Title: (Contract for Review) Plans and Specifications, Contract Award, and Budgetary Adjustments: Meadowview Road Complete Street Project (T15145500)

Location: Meadowview Road between 24th Street and Detroit Boulevard, District 8

Recommendation: Accept and publish for review a Resolution: 1) approving the Plans and Specifications for the Meadowview Road Complete Street Project (T15145500); 2) authorizing the City Manager or the City Manager’s designee to increase the revenue and expenditure budgets of the Meadowview Road Complete Street Project (T15145500) by $2,475,000 (Federal Capital Grants, Fund 3703); 3) authorizing the City Manager or the City Manager’s designee to increase the revenue and expenditure budgets of the Meadowview Road Complete Street Project (T15145500) by $1,194,000 (Other Capital Grants, Fund 3704); 4) authorizing the City Manager or the City Manager’s designee to transfer $833,028 (Major Street Construction, Fund 2007) and $450,000 (New Measure A Safety, Streetscape, Pedestrian, and Bicycle Fund, Fund 2039) from the expenditure budget of the State and Federal Grant Match Program (T15007200) to the Meadowview Road Complete Street Project (T15145500); 5) authorizing the City Manager or the City Manager’s designee to increase the expenditure budget of the Meadowview Road Complete Street Project (T15145500) by transferring $500,000 (Transportation Development Impact Fee Fund, Fund 3215) from available fund balance; 6) authorizing the City Manager or the City Manager’s designee to transfer $500,000 (Road Maintenance and Rehabilitation Account Fund, Fund 2036) from the expenditure budget of the Transportation Corridor Program (R15200000) to the expenditure budget of the Meadowview Road Complete Street Project (T15145500); 7) authorizing the City Manager or the City Manager’s designee to increase the expenditure budget of the Meadowview Road Complete Street Project (T15145500) by $924,717 by transferring $748,374 (Storm Drainage Fund, Fund 6011) from available fund balance, $12,899 (Wastewater Fund, Fund 6006) from available fund balance, and $163,444 (Water Fund, Fund 6005) from available fund balance; 8) authorizing the City Manager or the City Manager’s designee to transfer $1,550,000 (Major Street Construction Fund, Fund 2007) from the expenditure budget in the State and Federal Grant Match Program (T15007200) to the expenditure budget in the Meadowview Road Complete Street Project (T15145500) until such time as a loan agreement for federal funding in this amount is executed between the City of
Sacramento and the Sacramento Area Council of Governments; 9) upon approval of the loan agreement between the City and the Sacramento Area Council of Governments and Caltrans approval of the additional federal authorization, authorizing the City Manager or the City Manager’s designee to increase the revenue and expenditure budgets of the Meadowview Road Complete Street Project (T15145500) by $1,550,000 (Federal Capital Grants, Fund 3703) and to transfer $1,550,000 (Major Street Construction Fund, Fund 2007) from the expenditure budget in the Meadowview Road Complete Street Project (T15145500) to the State and Federal Grant Match Program (T15007200); 10) authorizing the City Manager or the City Manager’s designee to execute Supplemental Agreement No. 16 to City Agreement No. 2015-0010 in the amount of $20,000 for a new total contract amount not to exceed of $834,498 with Bennett Engineering for the Meadowview Road Complete Street Project (T15145500); 11) resetting the City Manager’s authority to issue change orders for City Agreement No. 2015-0010; 12) awarding a construction contract for the Meadowview Road Complete Street Project (T15145500) to All-American Construction, Inc. for an amount not to exceed $8,052,711; and 13) authorizing the City Manager or the City Manager’s designee to execute the contract for an amount not to exceed $8,052,711; and continue to May 5, 2020 for approval.

Contact: Zuhair Amawi, Senior Engineer, (916) 808-7620; Nader Kamal, Interim Engineering Services Manager, (916) 808-7035, Department of Public Works.

Presenter: None

Attachments:
1-Description/Analysis
2-Resolution (Contract)
3-Construction Contract - All-American Construction, Inc.
4-Supplemental Agreement No. 16 with Bennett Engineering
Description/Analysis

**Issue Detail:** The Meadowview Road Complete Street Project (the “Project”) constitutes the first two phases of a larger project on Meadowview Road. The Project begins just east of Freeport Boulevard and continues to the Meadowview Light Rail Station/Detroit Boulevard and also on 24th Street, from Meadowview Road north to Florin Road. Meadowview Road and 24th Street are major arterial corridors for transportation and serve business, parks, community centers, and industry within the Meadowview community. Enhancements to the corridor will support the development of vacant properties and enhance existing civic uses. These improvements will promote active transportation choices by increasing the ease of walking and reducing the stress of biking to the existing light rail station by adding bike lanes, sidewalk improvements, and landscaped medians.

The Project proposes to install signage, a community gateway, and monuments to enhance the Meadowview identity and improve connectivity to schools, businesses, job centers, and transit, including the Meadowview Light Rail Station and the Sam & Bonnie Pannell Community Center.

Final design plans, specifications, and estimate (PS&E) for the Meadowview Road Complete Street Project were completed. Bennett Engineering provided professional services during the preliminary engineering and design phases of the project per City Agreement No. 2015-0010.

The project is funded with federal, state, and local transportation and utility funds. The City was awarded $2,475,000 in federal Regional Surface Transportation Program (RSTP) funds and $1,194,000 in state Active Transportation Program (ATP) funds for construction through the Sacramento Area Council of Governments (SACOG) Bi-annual Funding Program. The project also received Community Development Block Grant (CDBG) funds through the Sacramento Housing and Redevelopment Agency’s (SHRA) Annual Action Plans for 2019 ($400,000) and 2020 ($250,000) which were previously approved by the City Council.

On January 23, 2020, the Meadowview Road Complete Street Project (T15145500) Construction Contract was advertised and bids were received on February 26, 2020. The City Council approval is necessary to award the Meadowview Road Complete Street Project (T15145500). The lowest bid was substantially higher than the Engineers Estimate. Due to limited local transportation funds, staff requested SACOG advance additional federal funds to meet the construction schedule through a Tier 3 Loan Program whereby SACOG provides available federal funding and permanent funding is addressed through future regional funding allocations. The loan agreement is being finalized and will be brought back with separate City Council action.
Policy Considerations: The action requested supports the City's General Plan goals of improving the transportation system, expanding public safety, achieving sustainability through reduced dependence on the private automobile, and enhancing livability and economic vitality. The Project provides much needed improvements to the bicycle and pedestrian facilities for continuous mobility and connectivity for pedestrians, bicyclists, vehicles, and transit.

The Sacramento City Code Section 4.04.020 and Council Rules of Procedure (Chapter 7, Section E.2.d) mandate that unless waived by a 2/3 vote of the City Council, all labor agreements and all agreements greater than $1,000,000 shall be made available to the public at least ten (10) days prior to Council action.

Economic Impacts: This new infrastructure is expected to create 32.21 total jobs (18.52 direct jobs and 13.69 jobs through indirect and induced activities) and create $4,972,026 in total economic output ($3,133,906 of direct output and another $1,838,120 of output through indirect and induced activities).

The indicated economic impacts are estimates calculated using a calculation tool developed by the Center for Strategic Economic Research (CSER). CSER utilized the IMPLAN input-output model (2009 coefficients) to quantify the economic impacts of a hypothetical $1 million of spending in various construction categories within the City of Sacramento in an average one-year period. Actual impacts could differ significantly from the estimates and neither the City of Sacramento nor CSER shall be held responsible for consequences resulting from such differences.

Environmental Considerations:

California Environmental Quality Act (CEQA) / National Environmental Policy Act (NEPA): The City Council approved a Mitigated Negative Declaration (MND) for the Meadowview Road Streetscape Project in compliance with CEQA on August 8, 2017 (Resolution No. 2017-0313). Following adoption of the MND, Staff filed a Notice of Determination with the Sacramento County Clerk on August 10, 2017. The current action consists of steps to implement the project that was approved and is consistent with the analysis contained in the adopted MND. No further environmental review is required.

The Project is funded in part by federal funds. As a result, the proposed Project is also subject to NEPA requirements. On February 6, 2018, Caltrans approved a Categorical Exclusion for the Project pursuant to the requirements of NEPA. The Sacramento Housing and Redevelopment Agency (SHRA) received NEPA approval through the US
Department of Housing and Urban Development for the CDBG funds allocated to this Project.

**Sustainability:** This Project is consistent with the City’s General Plan goals for the design of complete streets that enable safe access for all users (i.e., pedestrians, bicyclists, motorists and transit riders) of all ages and abilities. Complete streets are characterized by a comprehensive, integrated, and connected network that incorporate sustainable designs minimizing heat island effects through the incorporation of shading street trees along sidewalks and medians.

**Commission/Committee Action:** None

**Rationale for Recommendation:** The project was advertised on January 23, 2020, and bids were received on February 26, 2020. The bids are summarized below:

<table>
<thead>
<tr>
<th>Contractor</th>
<th>Bid Amount</th>
<th>DBE (Goal 18%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>All-American Construction, Inc.</td>
<td>$8,052,711.00</td>
<td>37.2%</td>
</tr>
<tr>
<td>Martin Brothers Construction</td>
<td>$8,857,737.00</td>
<td>24.0%</td>
</tr>
<tr>
<td>Teichert Construction</td>
<td>$9,618,222.75</td>
<td>22.1%</td>
</tr>
</tbody>
</table>

The Engineer’s Estimate was $5,925,571.

Of the three bids, All-American Construction, Inc. was found to be the lowest responsive and responsible bidder. The lowest bid was substantially higher than the Engineer’s Estimate. City staff considered the alternative of rejecting bids and re-advertising the project to seek lower bid prices. However, given the current bidding conditions with rising costs of labor and limited availability of materials, delaying the award did not appear to garner a cost reduction for the project. It is recommended that the Meadowview Road Complete Street Project (T15145500) be awarded to All-American Construction, Inc.

Bennett Engineering provided professional services for the preliminary engineering and design phases of the project. Supplemental Agreement No. 16 (City Agreement No. 2015-0010) with Bennett Engineering is needed to provide design support services through construction.

**Financial Considerations:** The total estimated cost of the Meadowview Road Complete Street Project (T15145500), including engineering, right of way acquisition, construction and construction management is estimated at $11.3 million.
The City and SACOG are completing an agreement for a Tier 3 Loan for federal funds in the amount of $1,550,000 with the intent that this funding will be permanently granted with the successful granting of $1,550,000 of construction funds from SACOG’s 2020 Funding Allocation of Regional Funds. In the event that the SACOG Board does not approve funding the construction of the Meadowview Road Complete Street Project through the 2020 Program, then the City and SACOG will determine a repayment plan that considers future grant programming or deferral of other funds provided by SACOG. City Council approval will be needed for approval of this loan agreement. To avoid a delay in contract award, $1,550,000 (Major Street Construction Fund, Fund 2007) will be transferred from the State and Local Grant Match Program (T15007200) to the project until such time as the loan agreement for federal funds is executed by both parties.

With the budgetary adjustments listed in the table below, there will be sufficient funding to award the construction contract to All-American Construction, Inc. for an amount not to exceed $8,052,711 and cover the remaining construction management and all other project related costs.

<table>
<thead>
<tr>
<th>Proposed Funding Source</th>
<th>Fund Name</th>
<th>Amount</th>
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<tbody>
<tr>
<td>SACOG Tier 3 Loan Program (future action)</td>
<td>Federal Capital Grants (Fund 3703)</td>
<td>$1,550,000</td>
</tr>
<tr>
<td>Interim loan until federal funding secured:</td>
<td>Major Street Construction (Fund 2007)</td>
<td></td>
</tr>
<tr>
<td>State and Federal Grant Match (T15007200)</td>
<td></td>
<td></td>
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<tr>
<td>Regional Surface Transportation Program (RSTP)</td>
<td>Federal Capital Grants (Fund 3703)</td>
<td>$2,475,000</td>
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<tr>
<td>Active Transportation Program (ATP)</td>
<td>Other Capital Grants (Fund 3704)</td>
<td>$1,194,000</td>
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<td>State and Federal Grant Match (T15007200)</td>
<td>Major Street Construction (Fund 2007)</td>
<td>$833,028</td>
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<td>State and Federal Grant Match (T15007200)</td>
<td>New Measure A Safety, Streetscape, Pedestrian &amp; Bicycle (Fund 2039)</td>
<td>$450,000</td>
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<tr>
<td>Transportation Development Impact Fee (TDIF) Program</td>
<td>TDIF (Fund 3215)</td>
<td>$500,000</td>
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<tr>
<td>Transportation Corridor Program (R15200000)</td>
<td>RMRA (Fund 2036)</td>
<td>$500,000</td>
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<tr>
<td>Storm Drainage Available Fund Balance</td>
<td>Storm Drainage Fund (Fund 6011)</td>
<td>$748,374</td>
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<tr>
<td>Wastewater Available Fund Balance</td>
<td>Wastewater Fund (Fund 6006)</td>
<td>$12,899</td>
</tr>
<tr>
<td>Water Available Fund Balance</td>
<td>Water Fund (Fund 6005)</td>
<td>$163,444</td>
</tr>
<tr>
<td>Sacramento Housing and Redevelopment Agency (SHRA)***</td>
<td>Community Development Block Grant (Fund 2700)</td>
<td>$650,000</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td>$9,076,745</td>
</tr>
</tbody>
</table>

*Note: $650,000 SHRA funding (Action Plan for 2020 CDBG Funding) was approved by City Council (on Oct 22, 2019, Resolution No. 2019-0408 for $250,000 and on Oct 30, 2018, Resolution No. 2018-0429 for $400,000).
Project Budget Table

<table>
<thead>
<tr>
<th>Current Project Budget</th>
<th>$2,207,096</th>
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</thead>
<tbody>
<tr>
<td>Proposed Budget through actions above</td>
<td>$9,076,745</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$11,283,841</strong></td>
</tr>
</tbody>
</table>

There is sufficient funding within the State and Federal Grant Match (T15007200), the Transportation Corridor Program (R15200000), and the available fund balances of the Transportation Development Impact Fee (Fund 3215), the Storm Drainage Fund (Fund 6011), the Wastewater Fund (Fund 6006), and the Water Fund (Fund 6005) to support the transfers to the Meadowview Road Complete Street Project (T15145500).

There are no General or Measure U funds planned or allocated for this project.

**Local Business Enterprise (LBE):** The Meadowview Complete Street Project (T15145500) has federal construction funding and requires conformance with Disadvantaged Business Enterprise (DBE) requirements. Therefore, the City’s LBE requirements are held in abeyance.

The DBE goal for this project is 18%. All-American Construction, Inc. pledged 37.2% in DBE which exceeds the project DBE Goal.
RESOLUTION NO.
Adopted by the Sacramento City Council

Plans and Specifications, Contract Award, and Budgetary Adjustments for the Meadowview Road Complete Street Project (T15145500)

BACKGROUND

A. The Meadowview Road Complete Street Project (the "Project") begins just east of Freeport Boulevard and continues to the Meadowview Light Rail Station/Detroit Boulevard and also on 24th Street, from Meadowview Road north to Florin Road. Meadowview Road and 24th Street are major arterial corridors for transportation and serve business, parks community centers, and industry within the Meadowview community. Enhancements to the corridor will support development of vacant properties and enhance existing civic uses. These improvements will promote active transportation choices by increasing the ease of walking and reducing the stress of biking to the existing light rail station by adding bike lanes, sidewalk improvements, and landscaped medians.

B. The Project proposes to install signage, a community gateway, and monuments to enhance the Meadowview identity and improve connectivity to schools, businesses, job centers, and transit, including the Meadowview Light Rail Station and the Sam & Bonnie Pannell Community Center.

C. On January 23, 2020, the Meadowview Road Complete Street Project (T15145500) was advertised and bids were received on February 26, 2020.

The bids are summarized below:

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D. The engineer’s estimate was $5,925,571
E. The lowest responsive and responsible bidder is All-American Construction, Inc.

F. Final design plans, specifications, and estimate (PS&E) for the Meadowview Road Complete Street Project were completed. Bennett Engineering provided professional services during the preliminary engineering and design phases of the project.

G. The project is funded with federal, state, and local transportation and utility funds. The City was awarded $2,475,000 in federal Regional Surface Transportation Program (RSTP) funds and $1,194,000 in state Active Transportation Program funds for construction through the Sacramento Area Council of Governments (SACOG) Bi-Annual Funding Program. Due to limited local transportation funds, the City will be entering into an agreement with SACOG to advance additional $1,550,000 of federal funds to meet the construction schedule through a Tier 3 Loan Program.

BASED ON THE FACTS SET FORTH IN THE BACKGROUND, THE CITY COUNCIL RESOLVES AS FOLLOWS:

Section 1. The Plans and Specifications for the Meadowview Road Complete Street Project (T15145500) are approved.

Section 2. The City Manager or the City Manager’s designee is authorized to increase the revenue and expenditure budgets of the Meadowview Road Complete Street Project (T15145500) by $2,475,000 (Federal Capital Grants, Fund 3703).

Section 3. The City Manager or the City Manager’s designee is authorized to increase the revenue and expenditure budgets of the Meadowview Road Complete Street Project (T15145500) by $1,194,000 (Other Capital Grants, Fund 3704) in state funding.

Section 4. The City Manager or the City Manager’s designee is authorized to transfer $833,028 (Major Street Construction, Fund 2007) and $450,000 (New Measure A Safety, Streetscape, Pedestrian, and Bicycle Fund, Fund 2039) from the expenditure budget in the State and Federal Grant Match Program (T15007200) to the expenditure budget in the Meadowview Road Complete Street Project (T15145500).

Section 5. The City Manager or the City Manager’s designee is authorized to increase the expenditure budget of the Meadowview Road Complete Street Project (T15145500) by transferring $500,000 (Transportation Development Impact Fee Fund, Fund 3215) from the Transportation Development Impact Fee Fund available fund balance.
Section 6. The City Manager or the City Manager’s designee is authorized to transfer $500,000 (Road Maintenance and Rehabilitation Account Fund, Fund 2036) from the expenditure budget of Transportation Corridor Program (R15200000) to the expenditure budget of the Meadowview Road Complete Street Project (T15145500).

Section 7. The City Manager or the City Manager’s designee is authorized to increase the expenditure budget of the Meadowview Road Complete Street Project (T15145500) by $924,717 by transferring $748,374 (Storm Drainage Fund, Fund 6011) from available fund balance, $12,899 (Wastewater Fund, Fund 6006) from available fund balance, and $163,444 (Water Fund, Fund 6005) from available fund balance.

Section 8. The City Manager or the City Manager’s designee is authorized to transfer $1,550,000 (Major Street Construction, Fund 2007) from the expenditure budget in the State and Federal Grant Match Program (T15007200) to the expenditure budget in the Meadowview Road Complete Street Project (T15145500) until such time as a loan agreement for federal funding in this amount is executed between the City of Sacramento and Sacramento Area Council of Governments.

Section 9. Upon approval of the loan agreement between the City and SACOG and Caltrans approval of the additional federal authorization, the City Manager or the City Manager’s designee is authorized to increase the revenue and expenditure budgets of the Meadowview Complete Street Project (T15145500) by an additional $1,550,000 (Federal Capital Grants, Fund 3703) and to transfer $1,550,000 (Major Street Construction, Fund 2007) from the expenditure budget in the Meadowview Road Complete Street Project (T15145500) to the State and Federal Grant Match Program (T15007200).

Section 10. The City Manager or the City Manager’s designee is authorized to execute Supplemental Agreement No. 16 to City Agreement No. 2015-0010 in an amount not to exceed $20,000 for a new total contract amount not to exceed $834,498 with Bennett Engineering for the Meadowview Complete Street Project (T15145500).

Section 11. The City Manager’s authority to issue change orders for City Agreement No. 2015-0010 is reset.

Section 12. The construction contract is awarded to for an amount not to exceed $8,052,711 for the Meadowview Complete Street Project (T15145500) to All America Construction, Inc.
Section 13. The City Manager or City Manager designee is authorized to execute a contract with All America-Construction, Inc. for an amount not to exceed $8,052,711 for the Meadowview Complete Street Project (T15145500).
SPECIAL PROVISIONS
NOTICE TO BIDDERS
PROPOSAL AND CONTRACT
FOR
MEADOWVIEW ROAD COMPLETE STREET PROJECT
IN
CITY OF SACRAMENTO
FEDERAL AID PROJECT NO: ATPL 5002 (173)
CITY PROJECT NO: T15145500
Bid # B20151131016


For Pre-Bid Information Call:
Zuhair Amawi, Project Manager
zamawi@cityofsacramento.org

Bids to be received before
2:00 P.M., Wednesday, February 19, 2020
5th Floor, New City Hall
915 I Street, Sacramento, CA 95814

Pre-Bid Meeting:
Monday, February 5, 2020 at 11:00 A.M
New City Hall
915 I Street
First Floor Conference Room CH1119
Sacramento, CA 95814

Engineer’s Construction Estimate: $5,925,571  Construction Time: 130 Working Days
Meadowview Road Complete Street Project
CITY PROJECT NO: T15145500
Addendum No. 6

February 20 2020

To all Potential Bidders:

Attached hereto are addenda items, which shall be incorporated into the bid proposal for above noted project. These changes shall be considered as part of the original documents, as if they were originally provided therein, and as such shall be used as contractual documents. All other terms, conditions, and specifications of the bid remain unchanged. Bidders must acknowledge receipt of this addendum prior to the hour and date specified in the bid request, or as amended, by one of the following methods:

(a) By acknowledging receipt, on the bid proposal form submitted; or
(b) By separate letter or email which includes a reference to the bid request and addendum number.

Failure to acknowledge receipt of this addendum in one of the above methods and cause acknowledgment to be received prior to the hour and date specified for receipt of proposals, may result in rejection of your offer. If by virtue of this addendum you decide to change an offer already submitted, such change may be made by email or letter, provided such email or letter makes reference to the bid request number and this addendum, and is received prior to the opening hour and date specified.

Respectfully,

Jose R. Ledesma
Contracts & Compliance Specialist

Enclosure
Item 1: Contractor Question and Response

1. Question: Please clarify the location of existing controllers E, I & J for 4 remote control valves E1, E2, E3, E4 shown on sheet LI-103 & LI-104, 1 remote control valve I1 shown on Sheet LI-105, 2 remote control valves J1 & J2 shown on sheet LI-106. Irrigation plans only show location of 4 new controllers A, B, C, & D.

Response: Existing Controller E (location unknown) is within the property and outside of the public right-of-way, however location is not necessary for bidding purposes since existing control wires are being utilized for valves E1-E-4. Existing wires will require extension from existing valve locations to new valve locations as shown on plans. Contractor shall field verify existing controller location for programming purposes. Controller I - Assume one (1) one-station battery operated controller. Install one (1) 1-inch anti siphon valve at existing valve cluster (by church entrance facing parking lot on Coral Gables Ct.). Assume 110 L.F. of trench for one (1) 1-inch pvc lateral line pipe from new valve to proposed sleeve under sidewalk at Meadowview Rd. Assume new 1" lateral line pipe crossing under one existing 6" wide concrete walk from parking lot. Controller J - Assume one (1) two-station battery operated controller. Install two (2) 1-inch anti siphon valves at existing valve cluster (by church entrance facing Meadowview Rd.). Assume 200 L.F. of trench for two (2) 1-inch pvc lateral line pipes from new valves to proposed sleeve under sidewalk at Meadowview Rd.

2 Question: It requires “EMPTY SPARE SLEEVE” but does not show the size of these sleeves. Please provide size for bidding purpose.

Response: Empty spare sleeves to be 4" size typical.

Item #2: Updated Davis-Bacon wages, dated January 31, 2020 are attached.
Superseded General Decision Number: CA20190007

State: California

Construction Types: Building, Heavy (Heavy and Dredging) and Highway

Counties: Alpine, Amador, Butte, Colusa, El Dorado, Glenn, Lassen, Marin, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, Shasta, Sierra, Siskiyou, Solano, Sonoma, Sutter, Tehama, Trinity, Yolo and Yuba Counties in California.

BUILDING CONSTRUCTION PROJECTS (excluding Amador County only); DREDGING CONSTRUCTION PROJECTS (does not include hopper dredge work); HEAVY CONSTRUCTION PROJECTS (does not include water well drilling); AND HIGHWAY CONSTRUCTION PROJECTS

Note: Under Executive Order (EO) 13658, an hourly minimum wage of $10.80 for calendar year 2020 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least $10.80 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2020. If this contract is covered by the EO and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must pay workers in that classification at least the wage rate determined through the conformance process set forth in 29 CFR 5.5(a)(1)(ii) (or the EO minimum wage rate, if it is higher than the conformed wage rate). The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(6). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

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<th>Publication Date</th>
</tr>
</thead>
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<tr>
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<tr>
<td>2</td>
<td>01/31/2020</td>
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</tbody>
</table>

ASBE00016-001 08/01/2019

AREA 1: MARIN, NAPA, SAN BENITO, SAN FRANCISCO, SOLANO, & SONOMA COUNTIES

AREA 2: ALPINE, AMADOR, BUTTE, COLUSA, EL DORADO, GLENN, MODOC, NEVADA, PLACER, PLUMAS, SACRAMENTO, SHASTA, SIERRA, SISKIYOU, SUTTER, TEHHEMA, TRINITY, YOLO, & YUBA COUNTIES

Rates Fringes

Page 15 of 580
Asbestos Workers/Insulator
(Includes the application of all insulating materials, protective coverings, coatings, and finishes to all types of mechanical systems)

<table>
<thead>
<tr>
<th>Area</th>
<th>Rate</th>
<th>Fringe</th>
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<tbody>
<tr>
<td>Area 1</td>
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<td>Area 2</td>
<td>$54.26</td>
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ASBE0016-007 01/01/2019

AREA 1: ALPINE, AMADOR, BUTTE, COLUSA, EL DORADO, GLENN, LASSEN, MODOC, NEVADA, PLACER, PLUMAS, SACRAMENTO, SHASTA, SIERRA, SISKIYOU, SOLANO, SONOMA, SUTTER, TEHAMA, TRINITY, YOLO & YUBA COUNTIES

AREA 2: MARIN & NAPA COUNTIES

<table>
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<tr>
<th>Rates</th>
<th>Fringes</th>
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Asbestos Removal
worker/hazardous material handler (Includes preparation, wetting, stripping, removal, scrapping, vacuuming, bagging and disposing of all insulation materials from mechanical systems, whether they contain asbestos or not)

<table>
<thead>
<tr>
<th>Area</th>
<th>Rate</th>
<th>Fringe</th>
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<tbody>
<tr>
<td>AREA 1</td>
<td>$30.81</td>
<td>22.71</td>
</tr>
<tr>
<td>AREA 2</td>
<td>$36.53</td>
<td>9.27</td>
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BOIL0549-002 10/01/2016

<table>
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<tbody>
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</tbody>
</table>

BOILERMAYER
(1) Marin & Solano Counties.$ 43.28 37.91
(2) Remaining Counties....$ 39.68 35.71

---

BRCA0003 001 08/01/2010

<table>
<thead>
<tr>
<th>Rates</th>
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<tr>
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</table>

MARBLE FINISHER.$ 35.41 16.45

---

BRCA0003 004 05/01/2019

AREA 1: ALPINE, AMADOR, BUTTE, COLUSA, EL DORADO, GLENN, LASSEN, MODOC, NEVADA, PLACER, PLUMAS, SACRAMENTO, SHASTA, SIERRA, SUTTER, TEHAMA, YOLO AND YUBA COUNTIES

AREA 2: MARIN, NAPA, SISKIYOU, SOLANO, SONOMA AND TRINITY COUNTIES

<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
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</thead>
<tbody>
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BRICKLAYER
<table>
<thead>
<tr>
<th>Area</th>
<th>Rate</th>
<th>Fringe</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area 1</td>
<td>$43.24</td>
<td>21.63</td>
</tr>
<tr>
<td>Area 2</td>
<td>$45.92</td>
<td>26.70</td>
</tr>
</tbody>
</table>

SPECIALTY PAY:
(A) Underground work such as tunnel work, sewer work, manholes, catch basins, sewer pipes and telephone conduit shall be paid $1.25 per hour above the regular rate. Work in direct contact with raw sewage shall receive $1.25 per hour in addition to the above.
(B) Operating a saw or grinder shall receive $1.25 per hour above the regular rate.
(C) Gunite nozzle person shall receive $1.25 per hour above the regular rate.

<table>
<thead>
<tr>
<th>Rate Description</th>
<th>Rates</th>
<th>Fringes</th>
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</thead>
<tbody>
<tr>
<td>Terrazzo Finisher</td>
<td>$37.58</td>
<td>17.33</td>
</tr>
<tr>
<td>Terrazzo Worker/Setter</td>
<td>$48.53</td>
<td>26.84</td>
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<table>
<thead>
<tr>
<th>Rate Description</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Tile Finisher</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Area 1</td>
<td>$27.31</td>
<td>14.75</td>
</tr>
<tr>
<td>Area 2</td>
<td>$27.10</td>
<td>16.50</td>
</tr>
<tr>
<td>Area 3</td>
<td>$29.94</td>
<td>16.38</td>
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<tr>
<td>Area 4</td>
<td>$28.06</td>
<td>15.82</td>
</tr>
<tr>
<td>Tile Layer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Area 1</td>
<td>$45.51</td>
<td>17.64</td>
</tr>
<tr>
<td>Area 2</td>
<td>$45.15</td>
<td>19.06</td>
</tr>
<tr>
<td>Area 3</td>
<td>$49.90</td>
<td>19.16</td>
</tr>
<tr>
<td>Area 4</td>
<td>$46.77</td>
<td>19.08</td>
</tr>
</tbody>
</table>

AREA 1: Butte, Colusa, El Dorado, Glenn, Lassen, Modoc, Nevada, Placer, Plumas, Sacramento, Shasta, Sierra, Sutter, Tehema, Yolo, Yuba
AREA 2: Alpine, Amador
AREA 3: Marin, Napa, Solano, Siskiyou
AREA 4: Sonoma

<table>
<thead>
<tr>
<th>Rate Description</th>
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</thead>
<tbody>
<tr>
<td>Marble Mason</td>
<td>$49.42</td>
<td>27.86</td>
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<table>
<thead>
<tr>
<th>Rate Description</th>
<th>Rates</th>
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<tbody>
<tr>
<td>Diver</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Assistant Tender, ROV</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tender/Technician</td>
<td>$49.75</td>
<td>33.40</td>
</tr>
<tr>
<td>Diver standby</td>
<td>$55.73</td>
<td>33.40</td>
</tr>
<tr>
<td>Diver Tender</td>
<td>$54.73</td>
<td>33.40</td>
</tr>
<tr>
<td>Diver wet</td>
<td>$99.27</td>
<td>33.40</td>
</tr>
<tr>
<td>Manifold Operator (mixed gas)</td>
<td>$59.73</td>
<td>33.40</td>
</tr>
<tr>
<td>Manifold Operator (Standby)</td>
<td>$54.73</td>
<td>33.40</td>
</tr>
</tbody>
</table>

DEPTH DAV (Surface Diving):
050 to 100 ft $2.00 per foot
101 to 150 ft $3.00 per foot
151 to 220 ft $4.00 per foot
221 ft.-deeper $5.00 per foot

SATURATION DIVING:
The standby rate shall apply until saturation starts. The saturation diving rate applies when divers are under pressure continuously until work task and decompression are complete. The diver rate shall be paid for all saturation hours.

DIVING IN ENCLOSURES:
Where it is necessary for divers to enter pipes or tunnels, or other enclosures where there is no vertical ascent, the following premium shall be paid: Distance traveled from entrance 26 feet to 300 feet: $1.00 per foot. When it is necessary for a diver to enter any pipe, tunnel or other enclosure less than 48” in height, the premium will be $1.00 per foot.

WORK IN COMBINATION OF CLASSIFICATIONS:
Employees working in any combination of classifications within the diving crew (except dive supervisor) in a shift are paid in the classification with the highest rate for that shift.

<table>
<thead>
<tr>
<th>CARP0034-003 07/01/2019</th>
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</thead>
<tbody>
<tr>
<td>Rates</td>
</tr>
<tr>
<td>Piledriver....................</td>
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<table>
<thead>
<tr>
<th>CARP0035-001 08/01/2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>AREA 1: MARIN, NAPA, SOLANO &amp; SONOMA</td>
</tr>
</tbody>
</table>

AREA 3: SACRAMENTO, WESTERN EL DORADO (Territory west of and including highway 49 and the territory inside the city limits of Placerville), WESTERN PLACER (Territory west of and including highway 49), & YOLO

AREA 4: ALPINE, BUTTE, COLUSA, EASTERN EL DORADO, GLENN, LASSEN, MODOC, NEVADA, EASTERN PLACER, PLUMAS, SHASTA, SIERRA, SISKIYOU, SUTTER, TCHAMA, TRINITY, & YOBA

<table>
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<tbody>
<tr>
<td>Rates</td>
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<tr>
<td>Drywall Installers/Lathers:</td>
</tr>
<tr>
<td>Area 1.......................</td>
</tr>
<tr>
<td>Area 3.......................</td>
</tr>
<tr>
<td>Area 4.......................</td>
</tr>
<tr>
<td>Drywall Stocker/Scraper:</td>
</tr>
<tr>
<td>Area 1.......................</td>
</tr>
<tr>
<td>Area 3.......................</td>
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<table>
<thead>
<tr>
<th>Marin County</th>
</tr>
</thead>
<tbody>
<tr>
<td>CARPENTER</td>
</tr>
<tr>
<td>Bridge Builder/Highway</td>
</tr>
<tr>
<td>Carpenter...............</td>
</tr>
</tbody>
</table>
Hardwood Floorlayer,  
Shingler, Power Saw  
Operator, Steel Scaffold &  
Steel Shoring Erector, Saw  
Filer..............................$ 50.65  
Journeyman Carpenter........$ 50.50  
Millwright.........................$ 50.60  

30.20  
30.20  
31.79

CARP0035-010 07/01/2017

AREA 1: Marin, Napa, Solano & Sonoma Counties

AREA 2: Monterey, San Benito and Santa Cruz

AREA 3: Alpine, Butte, Colusa, El Dorado, Glenn, Lassen, Modoc,  
Nevada, Placer, Plumas, Sacramento, Shasta, Sierra, Siskiyou,  
Sutter, Tehama, Trinity, Yolo & Yuba counties

Rates Fringes

Modular Furniture Installer

Area 1  
Installer I.........................$ 24.91  
Installer II.........................$ 22.18  
Lead Installer.....................$ 29.06  
Master Installer...................$ 33.28  
20.42  
20.42  
20.92  
20.92

Area 2  
Installer I.........................$ 22.96  
Installer II.........................$ 20.61  
Lead Installer.....................$ 25.93  
Master Installer...................$ 29.56  
20.42  
20.42  
20.92  
20.92

Area 3  
Installer I.........................$ 22.01  
Installer II.........................$ 19.24  
Lead Installer.....................$ 24.81  
Master Installer...................$ 31.83  
20.42  
20.42  
20.92  
20.92

CARP0046-001 07/01/2019

El Dorado (West), Placer (West), Sacramento and Yolo Counties

Rates Fringes

Carpenters  

Bridge Builder/Highway  
Carpenter..............................$ 50.50  
30.20

Hardwood Floorlayer,  
Shingler, Power Saw  
Operator, Steel Scaffold &  
Steel Shoring Erector, Saw  
Filer.................................$ 44.77  
Journeyman Carpenter........$ 44.62  
Millwright.........................$ 47.12  
30.20  
30.20  
31.79

Footnote: Placer County (West) includes territory West of and including Highway 49 and El Dorado County (West) includes territory West of and including Highway 49 and territory inside the city limits of Placerville.

CARP0046-002 07/01/2019

Alpine, Colusa, El Dorado (East), Nevada, Placer (East),  
Sierra, Sutter and Yuba Counties
<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
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</thead>
<tbody>
<tr>
<td>Carpenters</td>
<td></td>
</tr>
<tr>
<td>Bridge Builder/Highway Carpenter</td>
<td>$50.50</td>
</tr>
<tr>
<td>Hardwood Floorlayer, Shingler, Power Saw Operator, Steel Scaffold &amp; Steel Shoring Erector, Saw Filer</td>
<td>$43.42</td>
</tr>
<tr>
<td>Journeyman Carpenter</td>
<td>$42.27</td>
</tr>
<tr>
<td>Millwright</td>
<td>$45.77</td>
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</table>

CARP0152-003 07/01/2019

Amador County

<table>
<thead>
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<th>Fringes</th>
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</thead>
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<tr>
<td>Carpenters</td>
<td></td>
</tr>
<tr>
<td>Bridge Builder/Highway Carpenter</td>
<td>$50.50</td>
</tr>
<tr>
<td>Hardwood Floorlayer, Shingler, Power Saw Operator, Steel Scaffold &amp; Steel Shoring Erector, Saw Filer</td>
<td>$43.42</td>
</tr>
<tr>
<td>Journeyman Carpenter</td>
<td>$43.27</td>
</tr>
<tr>
<td>Millwright</td>
<td>$45.77</td>
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</table>

CARP0180-001 07/01/2019

Solano County

<table>
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<th>Rates</th>
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</thead>
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<tr>
<td>Carpenters</td>
<td></td>
</tr>
<tr>
<td>Bridge Builder/Highway Carpenter</td>
<td>$50.50</td>
</tr>
<tr>
<td>Hardwood Floorlayer, Shingler, Power Saw Operator, Steel Scaffold &amp; Steel Shoring Erector, Saw Filer</td>
<td>$50.65</td>
</tr>
<tr>
<td>Journeyman Carpenter</td>
<td>$50.50</td>
</tr>
<tr>
<td>Millwright</td>
<td>$50.60</td>
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</table>

CARP0751-001 07/01/2019

Napa and Sonoma Counties

<table>
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<tr>
<td>Carpenters</td>
<td></td>
</tr>
<tr>
<td>Bridge Builder/Highway Carpenter</td>
<td>$50.50</td>
</tr>
<tr>
<td>Hardwood Floorlayer, Shingler, Power Saw Operator, Steel Scaffold &amp; Steel Shoring Erector, Saw Filer</td>
<td>$50.65</td>
</tr>
<tr>
<td>Journeyman Carpenter</td>
<td>$50.50</td>
</tr>
<tr>
<td>Millwright</td>
<td>$50.60</td>
</tr>
</tbody>
</table>
CARP1599-001 07/01/2019

Butte, Glenn, Lassen, Modoc, Plumas, Shasta, Siskiyou, Tehama and Trinity Counties

<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carpenter</td>
<td>$50.50</td>
</tr>
<tr>
<td>Hardwood Floorlayer, Shingler, Power Saw Operator, Steel Scaffold &amp; Steel Shoring Erector, Saw Filer</td>
<td>$43.42</td>
</tr>
<tr>
<td>Journeyman Carpenter</td>
<td>$43.27</td>
</tr>
<tr>
<td>Millwright</td>
<td>$45.77</td>
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ELEC0180-001 06/01/2019

NAPA AND SOLANO COUNTIES

<table>
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<tbody>
<tr>
<td>CABLE SPLICER</td>
<td>$56.26</td>
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<tr>
<td>ELECTRICIAN</td>
<td>$50.01</td>
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ELEC0100-003 12/01/2010

NAPA AND SOLANO COUNTIES

<table>
<thead>
<tr>
<th>Rates</th>
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<tbody>
<tr>
<td>Sound &amp; Communications Installer</td>
<td>$38.42</td>
</tr>
<tr>
<td>Technician</td>
<td>$44.18</td>
</tr>
</tbody>
</table>

SCOPE OF WORK INCLUDES-
SOUND & VOICE TRANSMISSION (Music, Intercom, Nurse Call, Telephone); FIRE ALARM SYSTEMS [excluding fire alarm work when installed in raceways (including wire and cable pulling) and when performed on new or major remodel building projects or jobs], TELEVISION & VIDEO SYSTEMS, SECURITY SYSTEMS, COMMUNICATIONS SYSTEMS that transmit or receive information and/or control systems that are intrinsic to the above.

EXCLUDES-
Excludes all other data systems or multiple systems which include control function or power supply; excludes installation of raceway systems, line voltage work, industrial work, life-safety systems (all buildings having floors located more than 75' above the lowest floor level having building access); excludes energy management systems.

ELEC0340-002 02/01/2018

ALPINE, AMADOR, BUTTE, COLUSA, EL DORADO, GLENN, LASSEN, NEVADA, PLACER, PLUMAS, SACRAMENTO, TRINITY, YOLO, YUBA COUNTIES
Communications System
  Sound & Communications
  Installer....................$ 29.35  3%+15.35
  Sound & Communications
  Technician....................$ 33.75  3%+15.35

SCOPE OF WORK

Includes the installation, testing, service and maintenance, of the following systems which utilize the transmission and/or transference of voice, sound, vision and digital for commercial, education, security and entertainment purposes for the following TV monitoring and surveillance, background-foreground music, intercom and telephone interconnect, inventory control systems, microwave transmission, multi-media, multiplex, nurse call system, radio page, school intercom and sound, burglar alarms, and low voltage master clock systems.

A. SOUND AND VOICE TRANSMISSION/TRANSFERENCE SYSTEMS
  Background foreground music Intercom and telephone interconnect systems, Telephone systems, Nurse call systems, Radio page systems, School intercom and sound systems, Burglar alarm systems, Low voltage master clock systems, Multi-media/multiplex systems, Sound and musical entertainment systems, RF systems, Antennas and Wave Guide.

D. FIRE ALARM SYSTEMS
  Installation, wire pulling and testing

C. TELEVISION AND VIDEO SYSTEMS
  Television monitoring and surveillance systems, Video security systems, Video entertainment systems, Video educational systems, Microwave transmission systems, CATV and CCTV

D. SECURITY SYSTEMS
  Perimeter security systems
  Vibration sensor systems
  Card access systems
  Access control systems
  Sonar/infrared monitoring equipment

E. COMMUNICATIONS SYSTEMS THAT TRANSMIT OR RECEIVE INFORMATION AND/OR CONTROL SYSTEMS THAT ARE INTRINSIC TO THE ABOVE LISTED SYSTEMS
  SCADA (Supervisory Control and Data Acquisition)
  PLCM (Pulse Code Modulation)
  Inventory Control Systems
  Digital Data Systems
  Broadband and Baseband and Carriers
  Point of Sale Systems
  VSAT Data Systems
  Data Communication Systems
  RF and Remote Control System
  Fiber Optic Data Systems

Note: WORK EXCLUDED Raceway systems are not covered (excluding Ladder-Rack for the purpose of the above listed systems). Chases and/or nipples (not to exceed 10 feet) may be installed on open wiring systems. Energy management systems. SCADA (Supervisory Control and Data Acquisition) when not intrinsic to the above listed systems (in the scope). Fire alarm systems when installed in raceways (including wire and cable pulling) shall be performed at the electrician wage rate, when either of the following two (2) conditions apply:
1. The project involves new or major remodel building trades construction.
2. The conductors for the fire alarm system are installed in conduit.
ALPINE (West of Sierra Mt. Watershed), AMADOR, BUTTE, COLUSA, EL DORADO (West of Sierra Mt. Watershed), GLENN, LASSEN, NEVADA (West of Sierra Mt. Watershed), PLACER, PLUMAS, SACRAMENTO, SHASTA, SIERRA (West of Sierra Mt. Watershed), SUTTER, TEHAMA, TRINITY, YOLO & YUBA COUNTIES

Rates Fringes

ELECTRICIAN
Remaining area..............$ 40.06 28.54
Sierra Army Depot, Herlong...$ 48.83 18.54
Tunnel work................$ 41.01 18.54

CABLE SPLICER: Receives 110% of the Electrician basic hourly rate.

ELEC0401-005 07/01/2019

ALPINE (east of the main watershed divide), EL DORADO (east of the main watershed divide), NEVADA (east of the main watershed), PLACER (east of the main watershed divide) and SIERRA (east of the main watershed divide) COUNTIES:

Rates Fringes

ELECTRICIAN..................$ 40.50 19.39

ELEC0551-004 06/01/2019

MARIN AND SONOMA COUNTIES

Rates Fringes

ELECTRICIAN..................$ 51.40 22.83

ELEC0551-005 12/01/2018

MARIN & SONOMA COUNTIES

Rates Fringes

Sound & Communications
Installer.....................$ 38.42 20.11
Technician...................$ 44.18 30.29

SCOPE OF WORK INCLUDES-
SOUND & VOICE TRANSMISSION (Music, Intercom, Nurse Call, Telephone); FIRE ALARM SYSTEMS [excluding fire alarm work when installed in raceways (including wire and cable pulling) and when performed on new or major remodel building projects or jobs], TELEVISION & VIDEO SYSTEMS, SECURITY SYSTEMS, COMMUNICATIONS SYSTEMS that transmit or receive information and/or control systems that are intrinsic to the above.

EXCLUDES-
Excludes all other data systems or multiple systems which include control function or power supply; excludes installation of raceway systems, line voltage work, industrial work, life-safety systems (all buildings having
floors located more than 75' above the lowest floor level having building access); excludes energy management systems.

<table>
<thead>
<tr>
<th>rates</th>
<th>Fringes</th>
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<tbody>
<tr>
<td>$36.59</td>
<td>17.39</td>
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</table>

ELEC0659-008 02/01/2019

DEL NORTE, MODOC & SISKIYOU COUNTIES

<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
</tr>
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<tbody>
<tr>
<td>$59.09</td>
<td>20.22</td>
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<tr>
<td>$52.76</td>
<td>19.96</td>
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<tr>
<td>$31.10</td>
<td>11.32</td>
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<td>$52.76</td>
<td>19.96</td>
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<tr>
<td>$33.80</td>
<td>13.35</td>
</tr>
<tr>
<td>$33.24</td>
<td>14.79</td>
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ELEC1245-004 06/01/2019

ALL COUNTIES EXCEPT DEL NORTE, MODOC & SISKIYOU

<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
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</thead>
<tbody>
<tr>
<td>$58.09</td>
<td>19.36</td>
</tr>
<tr>
<td>$46.40</td>
<td>18.17</td>
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<tr>
<td>$35.47</td>
<td>17.79</td>
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<tr>
<td>$49.55</td>
<td>3%+17.65</td>
</tr>
</tbody>
</table>


ELEV00008-001 01/01/2019

<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
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</thead>
<tbody>
<tr>
<td>$67.56</td>
<td>34.125+a+b</td>
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</tbody>
</table>

FOOTNOTE:

PAID VACATION: Employer contributes 8% of regular hourly rate as vacation pay credit for employees with more than 5 years of service, and 6% for 6 months to 5 years of service.

Thanksgiving, and Christmas Day.

ENGI0003-008 07/01/2017

<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
</tr>
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<tbody>
<tr>
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<td>31.25</td>
</tr>
<tr>
<td>39.81</td>
<td>31.25</td>
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<td>38.69</td>
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<td>35.39</td>
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<tr>
<td>46.77</td>
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<tr>
<td>41.81</td>
<td>31.25</td>
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<tr>
<td>40.69</td>
<td>31.25</td>
</tr>
<tr>
<td>37.39</td>
<td>31.25</td>
</tr>
</tbody>
</table>

Dredging: (DREDGING: CLAMSHELL & DIPPER DREDGING; HYDRAULIC SUCTION DREDGING:)

AREA 1:
(1) Leeverman..............$ 44.77 31.25
(2) Dredge Dozer; Heavy duty repairman...............$ 39.81 31.25
(3) Booster Pump Operator; Deck Engineer; Deck mate; Dredge Tender; Winch Operator.....................$ 38.69 31.25
(4) Bargeman; Deckhand; Fireman; Leveehand; Oiler..$ 35.39 31.25

AREA 2:
(1) Leeverman..............$ 46.77 31.25
(2) Dredge Dozer; Heavy duty repairman...............$ 41.81 31.25
(3) Booster Pump Operator; Deck Engineer; Deck mate; Dredge Tender; Winch Operator.....................$ 40.69 31.25
(4) Bargeman; Deckhand; Fireman; Leveehand; Oiler..$ 37.39 31.25

AREA DESCRIPTIONS

AREA 1: ALAMEDA, BUTTE, CONTRA COSTA, KINGS, MARIN, MERCED, NAPA, SACRAMENTO, SAN BENITO, SAN FRANCISCO, SAN JOAQUIN, SAN MATEO, SANTA CLARA, SANTA CRUZ, SOLANO, STANISLAUS, SUTTER, YOLO, AND YUBA COUNTIES

AREA 2: MODOC COUNTY

THE REMAINING COUNTIES ARE SPLIT BETWEEN AREA 1 AND AREA 2 AS NOTED BELOW:

ALPINE COUNTY:
Area 1: Northernmost part
Area 2: Remainder

CALAVERAS COUNTY:
Area 1: Remainder
Area 2: Eastern part

COLUSA COUNTY:
Area 1: Eastern part
Area 2: Remainder

ELDORADO COUNTY:
Area 1: North Central part
Area 2: Remainder

FRESNO COUNTY:
Area 1: Remainder
Area 2: Eastern part
GLENN COUNTY:
Area 1: Eastern part
Area 2: Remainder

LASSEN COUNTY:
Area 1: Western part along the Southern portion of border with Shasta County
Area 2: Remainder

MADERA COUNTY:
Area 1: Except Eastern part
Area 2: Eastern part

MARIPOSA COUNTY
Area 1: Except Eastern part
Area 2: Eastern part

MONTERREY COUNTY
Area 1: Except Southwestern part
Area 2: Southwestern part

NEVADA COUNTY:
Area 1: All but the Northern portion along the border of Sierra County
Area 2: Remainder

PLACER COUNTY:
Area 1: All but the Central portion
Area 2: Remainder

PLUMAS COUNTY:
Area 1: Western portion
Area 2: Remainder

SACRAMENTO COUNTY:
Area 1: Western part
Area 2: Remainder

SISKIYOU COUNTY:
Area 1: Central part
Area 2: Remainder

SONOMA COUNTY:
Area 1: All but the Northwestern corner
Area 2: Remainder

TEHAMA COUNTY:
Area 1: All but the Western border with Mendocino & Trinity Counties
Area 2: Remainder

TRINITY COUNTY:
Area 1: East Central part and the Northeastern border with Shasta County
Area 2: Remainder

TUOLUMNE COUNTY:
Area 1: Except Eastern part
Area 2: Eastern part
""AREA 1"" WAGE RATES ARE LISTED BELOW

""AREA 2"" RECEIVES AN ADDITIONAL $2.00 PER HOUR ABOVE AREA 1 RATES.

SEE AREA DEFINITIONS BELOW

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</table>

OPERATOR: Power Equipment  
(AREA 1:)

GROUP 1  
Cranes: $46.30  
Oiler: $36.63  
Truck crane oiler: $39.20

GROUP 2  
Cranes: $43.79  
Oiler: $36.36  
Truck crane oiler: $38.98

GROUP 3  
Cranes: $42.05  
Hydraulic: $38.32  
Oiler: $36.14  
Truck Cranes: $38.71

GROUP 4  
Cranes: $39.01  

OPERATOR: Power Equipment  
(Pilothuning AREA 1:)

GROUP 1  
Lifting devices: $45.89  
Oiler: $36.63  
Truck crane oiler: $39.20

GROUP 2  
Lifting devices: $44.07  
Oiler: $36.36  
Truck Crane Oiler: $38.98

GROUP 3  
Lifting devices: $42.39  
Oiler: $36.14  
Truck Crane Oiler: $38.71

GROUP 4  
Lifting devices: $40.62  

GROUP 5  
Lifting devices: $39.32  

GROUP 6  
Lifting devices: $37.98  

OPERATOR: Power Equipment  
(Steel Erection - AREA 1:)

GROUP 1  
Cranes: $46.30  

Oiler................. $ 36.63 30.39
Truck Crane Oiler........ $ 39.20 30.39

GROUP 2
Cranes.................... $ 43.79 30.39
Oiler....................... $ 36.36 30.39
Truck Crane Oiler........ $ 38.98 30.39

GROUP 3
Cranes.................... $ 42.05 30.39
Hydraulic.................. $ 38.32 30.39
Oiler....................... $ 36.14 30.39
Truck Crane Oiler........ $ 35.71 30.59

GROUP 4
Cranes.................... $ 39.01 30.39

GROUP 5
Cranes.................... $ 35.13 30.39

OPERATOR: Power Equipment
(Tunnel and Underground Work
- AREA 1 -)

SHAFTS, STOPES, RAISES:
GROUP 1........................ $ 40.77 30.39
GROUP 1-A..................... $ 43.24 30.39
GROUP 2....................... $ 39.51 30.39
GROUP 3....................... $ 38.18 30.39
GROUP 4....................... $ 37.04 30.39
GROUP 5....................... $ 35.90 30.39

UNDERGROUND:
GROUP 1........................ $ 40.67 30.39
GROUP 1-A..................... $ 43.14 30.39
GROUP 2....................... $ 39.41 30.39
GROUP 3....................... $ 39.00 30.39
GROUP 4....................... $ 36.94 30.39
GROUP 5....................... $ 35.80 30.39

FOOTNOTE: Work suspended by ropes or cables, or work on a Yo-Yo Cat: $.60 per hour additional.

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1: Operator of helicopter (when used in erection work); Hydraulic excavator, 7 cu. yds. and over; Power shovels, over 7 cu. yds.

GROUP 2: Highline cableway; Hydraulic excavator, 3-1/2 cu. yds. up to 7 cu. yds.; Licensed construction work boat operator, on site; Power blade operator (finish); Power shovels, over 1 cu. yd. up to and including 7 cu. yds.

GROUP 3: Asphalt milling machine; Cable backhoe; Combination backhoe and loader over 3/4 cu. yds.; Continuous flight tie back machine assistant to engineer or mechanic; Crane mounted continuous flight tie back machine, tonnage to apply; Crane mounted drill attachment, tonnage to apply; Dozer, slope brd; Gradall; Hydraulic excavator, up to 3 1/2 cu. yds.; Loader 4 cu. yds. and over; Long reach excavator; Multiple engine scraper (when used as push pull); Power shovels, up to and including 1 cu. yd.; Pre-stress wire wrapping machine; Side boom cat, 572 or larger; Track loader 4 cu. yds. and over; Wheel excavator (up to and including 750 cu. yds. per hour)

GROUP 4: Asphalt plant engineer/box person; Chicago boom; Combination backhoe and loader up to and including 3/4 cu. yd.; Concrete batch plant (wet or dry); Dozer and/or push
cat; Pull- type elevating loader; Gradesetter, grade checker (GPS, mechanical or otherwise); Grooving and grinding machine; Heading shield operator; Heavy-duty drilling equipment, Hughes, LDH, Watson 3000 or similar; Heavy-duty repairperson and/or welder; Lime spreader; Loader under 4 cu. yds.; Lubrication and service engineer (mobile and grease rack); Mechanical finishers or spreader machine (asphalt, Barber-Greene and similar); Miller Formless M-9000 slope paver or similar; Portable crushing and screening plants; Power blade support; Roller operator, asphalt; Rubber-tired scraper, self-loading (paddle-wheels, etc.); Rubber- tired earthmoving equipment (scrapers); Slip form paver (concrete); Small tractor with drag; Soil stabilizer (P & H or equal); Spider plow and spider puller; Tubex pile rig; Unlicensed construction work boat operator, on site; Timber skidder; Track loader up to 4 yds.; Tractor-drawn scraper; Tractor, compressor drill combination; Welder; Woods-Mixer (and other similar Pugmill equipment)

GROUP 5: Cast-in-place pipe laying machine; Combination slusher and motor operator; Concrete conveyor or concrete pump, truck or equipment mounted; Concrete conveyor, building site; Concrete pump or pumpcrete gun; Drilling equipment, Watson 2000, Texoma 700 or similar; Drilling and boring machinery, horizontal (not to apply to waterliners, wagon drills or jackhammers); Concrete mixer/all; Person and/or material hoist; Mechanical finishers (concrete) (Clary, Johnson, Bidwell Bridge Deck or similar types); Mechanical burn, curb and/or curb and gutter machine, concrete or asphalt); Mine or shaft hoist; Portable crusher; Power jumbo operator (setting slip-forms, etc., in tunnels); Screed (automatic or manual); Self-propelled compactor with dozer; Tractor with boom D6 or smaller; Trenching machine, maximum digging capacity over 5 ft. depth; Vermeer T-600B rock cutter or similar

GROUP 6: Armor-Coater (or similar); Ballast jack tamper; Boom- type backfilling machine; Assistant plant engineer; Bridge and/or gantry crane; Chemical grouting machine, truck-mounted; Chip spreading machine operator; Concrete saw (self-propelled unit on streets, highways, airports and canals); Deck engineer; Drilling equipment Texoma 600, Hughes 200 Series or similar up to and including 30 ft. m.r.c.; Drill doctor; Helicopter radio operator; Hydro-hammer or similar; Line master; Skidsteer loader, Bobcat larger than 743 series or similar (with attachments); Locomotive; Lull hi-lift or similar; Oiler, truck mounted equipment; Paving breaker, truck mounted, with compressor combination; Paving fabric installation and/or laying machine; Pipe bending machine (pipelines only); Pipe wrapping machine (tractor propelled and supported); Screed (except asphaltic concrete paving); Self-propelled pipeline wrapping machine; Tractor; Self-loading chipper; Concrete barrier moving machine

GROUP 7: Ballast regulator; Boom truck or dual-purpose A-frame truck, non-rotating - under 15 tons; Carry lift or similar; Combination slurry mixer and/or cleaner; Drilling equipment, 20 ft. and under m.r.c.; Firetender (hot plant); Grouting machine operator; Highline cableway signalperson; Stationary belt loader (Kolman or similar); Lift slab machine (Vagtborg and similar types); Maginnes internal full slab vibrator; Material hoist (1 drum); Mechanical trench shield; Pavement breaker with or without compressor
combination); Pipe cleaning machine (tractor propelled and supported); Post driver; Roller (except asphalt); Chip Seal; Self-propelled automatically applied concrete curing machine (on streets, highways, airports and canals); Self-propelled compactor (without dozer); Signalperson; Slip-form pumps (lifting device for concrete forms); Tie spacer; Tower mobile; Trenching machine, maximum digging capacity up to and including 5 ft. depth; Truck-type loader

GROUP 8: Bit sharpener; Boiler tender; Box operator; Breakperson; Combination mixer and compressor (shotcrete/guniter); Compressor operator; Deckhand; Fire tender; Forklift (under 20 ft.); Generator; Gunite/shotcrete equipment operator; Hydraulic monitor; Ken seal machine (or similar); Mixermobile; Oilier; Pump operator; Refrigeration plant; Reservoir-debris tug (self-propelled floating); Ross Carrier (construction site); Rotomlist operator; Self-propelled tape machine; Shuttlecar; Self-propelled power sweeper operator (includes vacuum sweeper); Slusher operator; Surface heater; Switchperson; Tar pot firetender; Tugger hoist, single drum; Vacuum cooling plant; Welding machine (powered other than by electricity)

GROUP 8-A: Elevator operator; Skidsteer loader-Bobcat 743 series or smaller, and similar (without attachments); Mini excavator under 25 H.P. (backhoe-trencher); Tub grinder wood chipper

ALL CRANES AND ATTACHMENTS

GROUP 1: Clamshell and dragline over 7 cu. yds.; Crane, over 100 tons; Derrick, over 100 tons; Derrick barge pedestal-mounted, over 100 tons; Self-propelled boom-type lifting device, over 100 tons

GROUP 2: Clamshell and dragline over 1 cu. yd. up to and including 7 cu. yds.; Crane, over 45 tons up to and including 100 tons; Derrick barge, 100 tons and under; Self-propelled boom-type lifting device, over 45 tons; Tower crane

GROUP 3: Clamshell and dragline up to and including 1 cu. yd.; Cranes 45 tons and under; Self-propelled boom-type lifting device 45 tons and under;

GROUP 4: Boom Truck or dual purpose A-frame truck, non-rotating over 15 tons; Truck-mounted rotating telescopic boom type lifting device, Manitex or similar (boom truck) over 15 tons; Truck-mounted rotating telescopic boom type lifting device, Manitex or similar (boom truck) - under 15 tons;

PILEDRIVERS

GROUP 1: Derrick barge pedestal mounted over 100 tons; Clamshell over 7 cu. yds.; Self-propelled boom-type lifting device over 100 tons; Truck crane or crawler, land or barge mounted over 100 tons

GROUP 2: Derrick barge pedestal mounted 45 tons to and
including 100 tons; Clamshell up to and including 7 cu.
yds.; Self-propelled boom-type lifting device over 45 tons;
Truck crane or crawler, land or barge mounted, over 45 tons
up to and including 100 tons; Fundex F-12 hydraulic pile rig

GROUP 3: Derrick barge pedestal mounted under 45 tons; Self-
propelled boom-type lifting device 45 tons and under;
Skid/scow piledriver, any tonnage; Truck crane or crawler,
land or barge mounted 45 tons and under

GROUP 4: Assistant operator in lieu of assistant to engineer;
Forklift, 10 tons and over; Heavy-duty repairperson/welder

GROUP 5: Deck engineer

GROUP 6: Deckhand; Fire tender

STEEL ERECTORS

GROUP 1: Crane over 100 tons; Derrick over 100 tons; Self-
propelled boom-type lifting device over 100 tons

GROUP 2: Crane over 45 tons to 100 tons; Derrick under 100
tons; Self-propelled boom-type lifting device over 45 tons
to 100 tons; Tower crane

GROUP 3: Crane, 45 tons and under; Self-propelled boom-type
lifting device, 45 tons and under

GROUP 4: Chicago boom; Forklift, 10 tons and over; Heavy-duty
repair person/welder

GROUP 5: Boom cat

TUNNEL AND UNDERGROUND WORK

GROUP 1-A: Tunnel bore machine operator, 20' diameter or more

GROUP 1: Heading shield operator; Heavy-duty repairperson;
Mucking machine (rubber tired, rail or track type); Raised
bore operator (tunnels); Tunnel mole bore operator

GROUP 2: Combination slusher and motor operator; Concrete
pump or pumpcrete gun; Power jumbo operator

GROUP 3: Drill doctor; Mine or shaft hoist

GROUP 4: Combination slurry mixer cleaner; Grouting Machine
operator; Motorman

GROUP 5: Bit Sharpener; Brakeman; Combination mixer and
compressor (gunite); Compressor operator; Oiler; Pump
operator; Slusher operator

AREA DESCRIPTIONS:

POWER EQUIPMENT OPERATORS, CRANES AND ATTACHMENTS,TUNNEL AND
UNDERGROUND [These areas do not apply to Piledrivers and...
Steel Erectors]

AREA 1: ALPINE, AMADOR, BUTTE, COLUSA, EL DORADO, GLENN, Lassen, Marin, Napa, Nevada, Placer, Plumas, Sacramento, Shasta, Sierra, Siskiyou, Solano, Sonoma, Sutter, Tehama, Trinity, Yolo, Yuba

AREA 2 - Modoc County

The remaining counties are split between Area 1 and Area 2 as noted below:

ALPINE COUNTY:
Area 1: Northernmost part
Area 2: Remainder

COLUSA COUNTY:
Area 1: Eastern part
Area 2: Remainder

DEL NORTE COUNTY:
Area 1: Extreme Southwestern corner
Area 2: Remainder

ELDORADO COUNTY:
Area 1: North Central part
Area 2: Remainder

GLENN COUNTY:
Area 1: Eastern part
Area 2: Remainder

LASSEN COUNTY:
Area 1: Western part along the Southern portion of border with Shasta County
Area 2: Remainder

NEVADA COUNTY:
Area 1: All but the Northern portion along the border of Sierra County
Area 2: Remainder

PLACER COUNTY:
Area 1: All but the Central portion
Area 2: Remainder

PLUMAS COUNTY:
Area 1: Western portion
Area 2: Remainder

SHASTA COUNTY:
Area 1: All but the Northeastern corner
Area 2: Remainder

SIERRA COUNTY:
Area 1: Western part
Area 2: Remainder

SIISKIYOU COUNTY:
Area 1: Central part
Area 2: Remainder

SONOMA COUNTY:
Area 1: All but the Northwestern corner
Area 2: Remainder
TEHAMA COUNTY:
   Area 1: All but the Western border with mendocino & Trinity Counties
   Area 2: Remainder

TRINITY COUNTY:
   Area 1: East Central part and the Northeaster border with Shasta County
   Area 2: Remainder

SEE AREA DESCRIPTIONS BELOW

<table>
<thead>
<tr>
<th>OPERATOR: Power Equipment</th>
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<tbody>
<tr>
<td>LANDSCAPE WORK ONLY</td>
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<tr>
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<td>AREA 1....................$ 34.05  28.73</td>
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<td>AREA 2....................$ 36.05  28.73</td>
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<tr>
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<td>AREA 1....................$ 25.84  28.73</td>
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<tr>
<td>AREA 2....................$ 27.84  28.73</td>
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GROUP DESCRIPTIONS:

GROUP 1: Landscape Finish Grade Operator: All finish grade work regardless of equipment used, and all equipment with a rating more than 65 HP.

GROUP 2: Landscape Operator up to 65 HP: All equipment with a manufacturer's rating of 65 HP or less except equipment covered by Group 1 or Group 3. The following equipment shall be included except when used for finish work as long as manufacturer's rating is 65 HP or less: A-Frame and Winch Truck, Backhoe, Forklift, Hydragrapic Seeder Machine, Roller, Rubber-Tired and Track Earthmoving Equipment, Skiploader, Straw Blowers, and Trencher 31 HP up to 65 HP.

GROUP 3: Landscae Utility Operator: Small Rubber-Tired Tractor, Trencher Under 31 HP.

AREA DESCRIPTIONS:

AREA 1: ALAMEDA, BUTTE, CONTRA COSTA, KINGS, MARIN, MERCED, NAPA, SACRAMENTO, SAN BENITO, SAN FRANCISCO, SAN JOAQUIN, SAN MATEO, SANTA CLARA, SANTA CRUZ, SOLANO, STANISLAUS, SUTTER, YOLO, AND YUBA COUNTIES

AREA 2 - MODOC COUNTY

THE REMAINING COUNTIES ARE SPLIT BETWEEN AREA 1 AND AREA 2 AS NOTED BELOW:

ALPINE COUNTY:
Area 1: Northernmost part
Area 2: Remainder

CALAVERAS COUNTY:
Area 1: Except Eastern part
Area 2: Eastern part

COLUSA COUNTY:
Area 1: Eastern part
Area 2: Remainder

DEL NORTE COUNTY:
Area 1: Extreme Southwestern corner
Area 2: Remainder

ELDORADO COUNTY:
Area 1: North Central part
Area 2: Remainder

FRESNO COUNTY
Area 1: Except Eastern part
Area 2: Eastern part

GLENN COUNTY:
Area 1: Eastern part
Area 2: Remainder

HUMBOLDT COUNTY:
Area 1: Except Eastern and Southwestern parts
Area 2: Remainder

LAKE COUNTY:
Area 1: Southern part
Area 2: Remainder

LASSEN COUNTY:
Area 1: Western part along the Southern portion of border with Shasta County
Area 2: Remainder

MADERA COUNTY
Area 1: Remainder
Area 2: Eastern part

MARIPOSA COUNTY
Area 1: Remainder
Area 2: Eastern part

MENDOCINO COUNTY:
Area 1: Central and Southeastern parts
Area 2: Remainder

MONTEREY COUNTY
Area 1: Remainder
Area 2: Southwestern part

NEVADA COUNTY:
Area 1: All but the Northern portion along the border of Sierra County
Area 2: Remainder

PLACER COUNTY:
Area 1: All but the Central portion
Area 2: Remainder

PLUMAS COUNTY:
Area 1: Western portion
Area 2: Remainder
SHASTA COUNTY:
Area 1: All but the northeastern corner
Area 2: Remainder

SIERRA COUNTY:
Area 1: Western part
Area 2: Remainder

SISKIYOU COUNTY:
Area 1: Central part
Area 2: Remainder

SONOMA COUNTY:
Area 1: All but the northwestern corner
Area 2: Remainder

TEHAMA COUNTY:
Area 1: All but the western border with mendocino & Trinity Counties
Area 2: Remainder

TRINITY COUNTY:
Area 1: East Central part and the northeastern border with Shasta County
Area 2: Remainder

TULARE COUNTY:
Area 1: Remainder
Area 2: Eastern part

TUOLUMNE COUNTY:
Area 1: Remainder
Area 2: Eastern Part

------------------------------------------------------------------------------------------
IRON0377-002 07/01/2019

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<td>Ornamental, Reinforcing and Structural...........$ 40.00</td>
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PREMIUM PAY:

$6.00 additional per hour at the following locations:

China Lake Naval Test Station, Chocolate Mountains Naval Reserve-Niland,
Edwards AFB, Fort Irwin Military Station, Fort Irwin Training Center-Goldstone, San Clemente Island, San Nicholas Island,

$4.00 additional per hour at the following locations:

Army Defense Language Institute - Monterey, Fallon Air Base,
Naval Post Graduate School - Monterey, Yermo Marine Corps Logistics Center

$2.00 additional per hour at the following locations:

Port Hueneme, Port Mugu, U.S. Coast Guard Station - Two Rock
LAB00067-001 07/01/2019

AREA ""A"" - MARIN COUNTY

AREA ""B"" - ALPINE, AMADOR, BUTTE COLUSA EL DORADO, GLENN, LASSEN, MODOC, NAPA, NEVADA, PLACER, PLumas, SACRAMENTO, SHASTA, SIERRA, SISKIYOU, SOLANO, SONOMA, SUTTER, TEHAMA, TRINITY, YOLO, AND YUBA COUNTIES

Rates Fringes

Asbestos Removal Laborer..........................$ 24.00  11.30
LABORER (Lead Removal)
  Marin County..............................$ 31.81  24.61
  Remaining Counties......................$ 30.81  24.61

LAB00067-005 06/27/2017

AREA ""A"" - ALAMEDA, CONTRA COSTA, MARIN, SAN FRANCISCO, SAN MATEO AND SANTA CLARA COUNTIES

AREA ""B"" - ALPINE, AMADOR, BUTTE, CALAVERAS, COLUSA, DEL NORTE, EL DORADO, FRESNO, GLENN, HUMBOLDT, KINGS, LAKE, LASSEN, MADERA, MARIPOSA, MENDOCINO, MERCED, MODOC, MONTEREY, NAPA, NEVADA, PLACER, PLumas, SANCHEZ, SAN BENITO, SAN JOAQUIN, SANTA CRUZ, SIERRA, SHASTA, SISKIYOU, SOLANO, SONOMA, STANISLAUS, TEHAMA, TRINITY, TULARE, TUOLUMNE, YOLO AND YOUDA COUNTIES

Rates Fringes

LABORER (TRAFFIC CONTROL/LANE CLOSURE)
  Escort Driver, Flag Person
    Area A.................................$ 29.54  22.17
    Area B.................................$ 28.54  22.17
  Traffic Control Person I
    Area A.................................$ 29.84  22.17
    Area B.................................$ 29.84  22.17
  Traffic Control Person II
    Area A.................................$ 27.34  22.17
    Area B.................................$ 26.34  22.17

TRAFFIC CONTROL PERSON I: Layout of traffic control, crash cushions, construction area and roadside signage.

TRAFFIC CONTROL PERSON II: Installation and removal of temporary/permanent signs, markers, delineators and crash cushions.

LAB008185-002 07/01/2018

ALPINE, AMADOR, BUTTE, COLUSA, EL DORADO, GLENN, LASSEN, MODOC, NEVADA, PLACER, PLUMAS, SACRAMENTO, SHASTA, SIERRA, SISKIYOU, SUTTER, TEHAMA, TRINITY, YOLO AND YUBA COUNTIES

Rates Fringes

LABORER
### Mason Tender - Brick

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### LABO0185-005 06/25/2018

ALPINE, AMADOR, BUTTE, COLUSA, EL DORADO, GLENN, LASSEN, MODOC, NEVADA, PLACER, PLUMAS, SACRAMENTO, SHASTA, SIERRA, SISKIYOU, SUTTER, TEHAMA, TRINITY, YOLO AND YUBA COUNTIES

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<tr>
<td>$38.34</td>
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**TUNNEL AND SHAFT CLASSIFICATIONS**

GROUP 1: Diamond driller; Groundmen; Gunite and shotcrete nozzlemen

GROUP 2: Rodmen; Shaft work & raise (below actual or excavated ground level)

GROUP 3: Bit grinder; Blaster, driller, powdermen, heading; Cherry pickermen - where car is lifted; Concrete finisher in tunnel; Concrete screenman; Grout pumpman and potman; Gunite & shotcrete gunman & potman; Headermen; High pressure nozzleman; Miner - tunnel, including top and bottom man on shaft and raise work; Nipper; Nozzleman on slick line; Sandblaster - potman, Robotic Shotcrete Placer, Segment Erector, Tunnel Muck Hauler, Steel Form raiser and setter; Timberman, retimerman (wood or steel or substitute materials therefore); Tugger (for tunnel laborer work); Cable tender; Chuck tender; Powderman - primer house

GROUP 4: Vibrator operator, pavement breaker; Bull gang - muckers, trackmen; Concrete crew - includes rodding and spreading, Dumpmen (any method)

GROUP 5: Grout crew; Reboundman; Swamper/ Brakeman

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### LABO0185-006 06/25/2018

ALPINE, AMADOR, BUTTE, COLUSA, EL DORADO, GLENN, LASSEN, MODOC, NEVADA, PLACER, PLUMAS, SACRAMENTO, SHASTA, SIERRA, SISKIYOU, SUTTER, TEHAMA, TRINITY, YOLO, YUBA COUNTIES

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<td>$30.34</td>
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<td>$30.37</td>
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</tr>
<tr>
<td>$29.64</td>
<td>23.20</td>
</tr>
</tbody>
</table>
GROUP 3..........................$ 29.54 23.20
GROUP 4..........................$ 23.23 23.20

See groups 1-b and 1-d under laborer classifications.

LABORER (GARDENERs, HORTICULTURAL & LANDSCAPE)

LABORERS - AREA B:)

(1) New Construction........$ 29.54 23.20
   Establishment Warranty
   Period..................$ 23.23 23.20

LABORER (GRUNITE - AREA B:)

GROUP 1..........................$ 29.79 22.51
GROUP 2..........................$ 29.25 22.31
GROUP 3..........................$ 28.66 22.31
GROUP 4..........................$ 28.54 22.31

LABOR Fr (SRFCKTNG - AREA R:)

GROUP 1..........................$ 29.79 23.20
GROUP 2..........................$ 29.64 23.20

FOOTNOTES:

Laborers working off or with or from bos'n chairs, swinging scaffolds, belts shall receive $0.25 per hour above the applicable wage rate. This shall not apply to workers entitled to receive the wage rate set forth in Group 1-a below.

LABORER CLASSIFICATIONS

CONSTRUCTION SPECIALIST GROUP: Asphalt ironer and raker; Chainsaw; Laser beam in connection with laborers' work; Cast-in-place manhole form setter; Pressure pipelayer; Davis trencher - 300 or similar type (and all small trenchers); Blaster; Diamond driller; Multiple unit drill; Hydraulic drill;

GROUP 1: Asphalt spreader boxes (all types); Barko, Wacker and similar type tampers; Buggymobile; Caulker, bender, pipewrapper, conduit layer, plastic pipelayer; Certified hazardous waste worker including Leade Abatement; Compactors of all types; Concrete and magnesite mixer, 1/2 yd. and under; Concrete pan work; Concrete sander; Concrete saw; Cribber and/or shoring; Cut granite curb setter; Drip-pak machine; Faller, logloader and bucker; Form raiser, slip form; Green cutter; Headerboard, Hubsetter, aligner, by any method; High pressure blow pipe (1-1/2" or over, 100 lbs. pressure/over); Hydro seeder and similar type; Jackhammer operator; Jacking of pipe over 12 inches; Jackson and similar type compactor; Kettle tender, pot and worker applying asphalt, lay-kold, creosote, lime, caustic and similar type materials (applying means applying, dipping or handling of such materials); Lagging, sheeting, whaling, bracing, trenchjacking, lagging hammer; Magnesite, epoxyresin, fiberglass, mastic worker (wet or dry); No joint pipe and stripping of same, including repair of voids; Pavement breaker and spader, including tool grinder; Perma curb; Pipelayer (including grade checking in connection with pipelaying); Precast-manhole setter; Pressure pipe tester; Post hole digger, air, gas and electric; Power broom sweeper; Power tampers of all types (except as shown in Group 2); Ram set gun and stud gun; Riprap stonepaver and rock-slinger, including placing of sacked concrete and/or sand (wet or dry) and gabions and similar type; Rotary scarifier or multiple head concrete
chipping scarifier; Roto and Ditch Witch; Rototiller; Sandblaster, pot, gun, nozzle operators; Signalling and rigging; Tank cleaner; Tree climber; Turbo blaster; Vibrascrreader, bull float in connection with laborers' work; Vibrator; Hazardous waste worker (lead removal); Asbestos and mold removal worker

GROUP 1-a: Joy drill model TW-2A; Gardner-Denver model DH143 and similar type drills; Track driller; Jack leg driller; Wagon driller; Mechanical drillers, all types regardless of type or method of power; Mechanical pipe layers, all types regardless of type or method of power; Blaster and powder; All work of loading, placing and blasting of all powder and explosives of whatever type regardless of method used for such loading and placing; High scalers (including drilling of same); Tree topper; Bit grinder

GROUP 1-b: Sewer cleaners shall receive $4.00 per day above Group 1 wage rates. "Sewer cleaner" means any worker who handles or comes in contact with raw sewage in small diameter sewers. Those who work inside recently active, large diameter sewers, and all recently active sewer manholes shall receive $5.00 per day above Group 1 wage rates.

GROUP 1-c: Burning and welding in connection with laborers' work; Synthetic thermoplastics and similar type welding

GROUP 1-d: Maintenance and repair track and road beds. All employees performing work covered herein shall receive $.25 per hour above their regular rate for all work performed on underground structures not specifically covered herein. This paragraph shall not be construed to apply to work below ground level in open cut. It shall apply to cut and cover work of subway construction after the temporary cover has been placed.

GROUP 1-e: Work on and/or in bell hole footings and shafts thereof, and work on and in deep footings. (A deep footing is a hole 15 feet or more in depth.) In the event the depth of the footing is unknown at the commencement of excavation, and the final depth exceeds 15 feet, the deep footing wage rate would apply to all employees for each and every day worked on or in the excavation of the footing from the date of inception.

GROUP 1-f: Wire winding machine in connection with guniting or shotcrete

GROUP 2: Asphalt shoveler; Cement dumper and handling dry cement or gypsum; Choke-setter and rigger (clearing work); Concrete bucket dumper and chute; Concrete chipping and grinding; Concrete laborer (wet or dry); Driller tender, chuck tender, nipper; Guinea chaser (stake), grout crew; High pressure nozzle, adductor; Hydraulic monitor (over 100 lbs. pressure); Loading and unloading, carrying and hauling of all rods and materials for use in reinforcing concrete construction; Pittsburgh chipper and similar type brush shredders; Sloper; Single foot, hand-held, pneumatic tamper; All pneumatic, air, gas and electric tools not listed in Groups 1 through 1-f; Jacking of pipe - under 12 inches

GROUP 3: Construction laborers, including bridge and general laborer; Dump, load spotter; Flag person; Fire watcher;
Fence erector; Guardrail erector; Gardener, horticultural and landscape laborer; Jetting; Limber, brush loader and piler; Pavement marker (button setter); Maintenance, repair track and road beds; Streetcar and railroad construction track laborer; Temporary air and water lines, Victaulic or similar; Tool room attendant (jobsite only)

GROUP 4: Final clean-up work of debris, grounds and building including but not limited to: street cleaner; cleaning and washing windows; brick cleaner (jobsite only); material cleaner (jobsite only). The classification "material cleaner" is to be utilized under the following conditions:
A: at demolition site for the salvage of the material.
B: at the conclusion of a job where the material is to be salvaged and stacked to be reused on another job.
C: for the cleaning of salvage material at the jobsite or temporary jobsite yard.

The material cleaner classification should not be used in the performance of "form stripping, cleaning and oiling and moving to the next point of erection".

---------------------------------------------------------------
GUNITE LABORER CLASSIFICATIONS
GROUP 1: Structural Nozzleman
GROUP 2: Nozzleman, Gunman, Potman, Groundman
GROUP 3: Reboundman
GROUP 4: Gunite laborer

---------------------------------------------------------------
WRECKING WORK LABORER CLASSIFICATIONS

GROUP 1: Skilled wrecker (removing and salvaging of sash, windows and materials)
GROUP 2: Semi-skilled wrecker (salvaging of other building materials)

---------------------------------------------------------------
LAB00185-008 07/01/2018

<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
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<tr>
<td>Plasterer tender...........$ 32.02</td>
<td>23.00</td>
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Work on a swing stage scaffold: $1.00 per hour additional.

---------------------------------------------------------------
LAB00261-002 06/25/2018

MARIN COUNTY

<table>
<thead>
<tr>
<th>Rates</th>
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<tr>
<td>LABORER (TRAFFIC CONTROL/LANE CLOSURE) Escort Driver, Flag Person...$ 30.54</td>
<td>23.65</td>
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<tr>
<td>Traffic Control Person I...$ 30.84</td>
<td>23.65</td>
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<tr>
<td>Traffic Control Person II...$ 28.34</td>
<td>23.65</td>
</tr>
</tbody>
</table>
TRAFFIC CONTROL PERSON I: Layout of traffic control, crash cushions, construction area and roadside signage.

TRAFFIC CONTROL PERSON II: Installation and removal of temporary/permanent signs, markers, delineators and crash cushions.

-----------------------------------------------
LAB00261-004 06/25/2018

MARIN COUNTY

<table>
<thead>
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<th>Rates</th>
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<tbody>
<tr>
<td>Tunnel and Shaft Laborers:</td>
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<tr>
<td>Group 1: $37.82</td>
<td>24.11</td>
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<tr>
<td>Group 2: $37.59</td>
<td>24.11</td>
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<tr>
<td>Group 3: $37.34</td>
<td>24.11</td>
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<td>Group 4: $36.89</td>
<td>24.11</td>
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<tr>
<td>Group 5: $36.35</td>
<td>24.11</td>
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<tr>
<td>Shotcrete Specialist: $38.34</td>
<td>24.11</td>
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</tbody>
</table>

TUNNEL AND SHAFT CLASSIFICATIONS

GROUP 1: Diamond driller; Groundmen; Gunite and shotcrete nozzlemen

GROUP 2: Rodmen; Shaft work & raise (below actual or excavated ground level)

GROUP 3: Bit grinder; Blaster, driller, powdermen, heading; Cherry pickermen - where car is lifted; Concrete finisher in tunnel; Concrete screedman; Grout pumpman and potman; Gunite & shotcrete gunman & potman; Headermen; High pressure nozzleman; Miner - tunnel, including top and bottom man on shaft and raise work; Nipper; Nozzlemann on slick line; Sandblaster - potman, Robotic Shotcrete Placer, Segment Erector, Tunnel Muck Hauler, Steel Form raiser and setter; Timberman, retimberman (wood or steel or substitute materials therefore); Tugger (for tunnel laborer work); Cable tender; Chuck tender; Powderman - primer house

GROUP 4: Vibrator operator, pavement breaker; Bull gang muckers, trackmen; Concrete crew - includes rodding and spreading, Dumpmen (any method)

GROUP 5: Grout crew; Reboundman; Swapper/ Brakeman

-----------------------------------------------
LAB00261-007 07/01/2018

MARIN AND NAPA COUNTIES

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<td>LABORER</td>
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<tr>
<td>Mason Tender-Brick: $32.45</td>
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LAB00261-010 06/25/2018

MARIN COUNTY

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<th>Rates</th>
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<tbody>
<tr>
<td>LABORER (CONSTRUCTION CRAFT</td>
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</table>
LABORERS - AREA A:

Construction Specialist
- Group..........................$ 31.49  23.20
- GROUP 1......................$ 30.79  23.20
- GROUP 1-a....................$ 31.01  23.20
- GROUP 1-c....................$ 30.84  23.20
- GROUP 1-e....................$ 31.34  23.20
- GROUP 1-f....................$ 31.37  23.20
- GROUP 2......................$ 30.64  23.20
- GROUP 3......................$ 30.54  23.20
- GROUP 4......................$ 24.23  23.20

See groups 1-b and 1-d under laborer classifications.

LABORER (GARDENERS, HORTICULTURAL & LANDSCAPE)

LABORERS - AREA A:

1. New Construction.........$ 30.54  23.20
2. Establishment Warranty Period..................$ 24.23  23.20

LABORER (GUNITE - AREA A):

- GROUP 1......................$ 30.75  22.31
- GROUP 2......................$ 30.25  22.31
- GROUP 3......................$ 29.66  22.31
- GROUP 4......................$ 29.54  22.31

LABORER (WRECKING - AREA A):

- GROUP 1......................$ 30.79  23.20
- GROUP 2......................$ 30.64  23.20

FOOTNOTES:

Laborers working off or with or from bos'n chairs, swinging scaffolds, belts shall receive $0.25 per hour above the applicable wage rate. This shall not apply to workers entitled to receive the wage rate set forth in Group 1-a below.

LABORER CLASSIFICATIONS

CONSTRUCTION SPECIALIST GROUP: Asphalt ironer and raker; Chainsaw; Laser beam in connection with laborers' work; Cast-in-place manhole form setter; Pressure pipelayer; Davis trencher - 300 or similar type (and all small trenchers); Blaster; Diamond driller; Multiple unit drill; Hydraulic drill

GROUP 1: Asphalt spreader boxes (all types); Barko, Wacker and similar type tampers; Buggymobile; Caulker, bander, pipewriter, conduit layer, plastic pipelayer; Certified hazardous waste worker including Leade Abatement; Compactors of all types; Concrete and magnesite mixer, 1/2 yd. and under; Concrete pan work; Concrete sander; Concrete saw; Cribber and/or shoring; Cut granite curb setter; Dri-pak-it machine; Fallc, logloader and bucket; Form raiser, slip forms; Green cutter; Headerboard, Hubsetter, aligner, by any method; High pressure blow pipe (1-1/2” or over, 100 lbs. pressure/over); Hydro seeder and similar type; Jackhammer operator; Jacking of pipe over 12 inches; Jackson and similar type compactor; Kettle tender, pot and worker applying asphalt, lay-kold, creosote, lime, caustic and similar type materials (applying means applying, dipping or handling of such materials); Lagging, shooting, whaling, bracing, trenchjacking, lagging hammer; Magnesite, epoxyresin, fiberglass, mastic worker (wet or dry); No joint pipe and stripping of same, including repair of
voids; Pavement breaker and spader, including tool grinder; Perma curb; Pipelayer (including grade checking in connection with pipelaying); Precast-manhole setter; Pressure pipe tester; Post hole digger, air, gas and electric; Power broom sweeper; Power tampers of all types (except as shown in Group 2); Ram set gun and stud gun; Riprap stonopaver and rock-slinger, including placing of sacked concrete and/or sand (wet or dry) and gabions and similar type; Rotary scarifier or multiple head concrete chipping scarifier; Roto and Ditch Witch; Rototiller; Sandblaster, pot, gun, nozzle operators; Signalling and rigging; Tank cleaner; Tree climber; Turbo blaster; Vibrascreeed, bull float in connection with laborers' work; Vibrator; Hazardous waste worker (lead removal); Asbestos and mold removal worker

GROUP 1-a: Joy drill model TWM-2A; Gardner-Denver model DH143 and similar type drills; Track driller; Jack leg driller; Wagon driller; Mechanical drillers, all types regardless of type or method of power; Mechanical pipe layers, all types regardless of type or method of power; Blaster and powder; All work of loading, placing and blasting of all powder and explosives of whatever type regardless of method used for such loading and placing; High scalers (including drilling of same); Tree topper; Bit grinder

GROUP 1-b: Sewer cleaners shall receive $4.00 per day above Group 1 wage rates. "Sewer cleaner" means any worker who handles or comes in contact with raw sewage in small diameter sewers. Those who work inside recently active, large diameter sewers, and all recently active sewer manholes shall receive $5.00 per day above Group 1 wage rates.

GROUP 1-c: Burning and welding in connection with laborers' work; Synthetic thermoplastics and similar type welding

GROUP 1-d: Maintenance and repair track and road beds. All employees performing work covered herein shall receive $.25 per hour above their regular rate for all work performed on underground structures not specifically covered herein. This paragraph shall not be construed to apply to work below ground level in open cut. It shall apply to cut and cover work of subway construction after the temporary cover has been placed.

GROUP 1-e: Work on and/or in bell hole footings and shafts thereof, and work on and in deep footings. (A deep footing is a hole 15 feet or more in depth.) In the event the depth of the footing is unknown at the commencement of excavation, and the final depth exceeds 15 feet, the deep footing wage rate would apply to all employees for each and every day worked on or in the excavation of the footing from the date of inception.

GROUP 1-f: Wire winding machine in connection with guniting or shot crete

GROUP 2: Asphalt shoveler; Cement dumper and handling dry cement or gypsum; Choke-setter and rigger (clearing work); Concrete bucket dumper and chute; Concrete chipping and grinding; Concrete laborer (wet or dry); Driller tender, chuck tender, nipper; Guinea chaser (stake), grout crew; High pressure nozzle, adductor; Hydraulic monitor (over 100 lbs. pressure); Loading and unloading, carrying and hauling
of all rods and materials for use in reinforcing concrete construction; Pittsburgh chipper and similar type brush shredders; Sloper; Single foot, hand-held, pneumatic tamper; All pneumatic, air, gas and electric tools not listed in Groups 1 through 1-f; Jacking of pipe - under 12 inches

GROUP 3: Construction laborers, including bridge and general laborer; Dump, load spotter; Flag person; Fire watcher; Fence erector; Guardrail erector; Gardener, horticultural and landscape laborer; Jetter; Limber, brush loader and piler; Pavement marker (button setter); Maintenance, repair track and road beds; Streetcar and railroad construction track laborer; Temporary air and water lines, Victaulic or similar; Tool room attendant (jobsite only)

GROUP 4: Final clean-up work of debris, grounds and building including but not limited to: street cleaner; cleaning and washing windows; brick cleaner (jobsite only); material cleaner (jobsite only). The classification "material cleaner" is to be utilized under the following conditions:
A: at demolition site for the salvage of the material.
B: at the conclusion of a job where the material is to be salvaged and stocked to be reused on another job.
C: for the cleaning of salvage material at the jobsite or temporary jobsite yard.

The material cleaner classification should not be used in the performance of "form stripping, cleaning and oiling and moving to the next point of erection".

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GUNITE LABORER CLASSIFICATIONS

GROUP 1: Structural Nozzleman

GROUP 2: Nozzleman, Gunman, Potman, Groundman

GROUP 3: Reboundman

GROUP 4: Gunite laborer

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WRECKING WORK LABORER CLASSIFICATIONS

GROUP 1: Skilled wrecker (removing and salvaging of sash, windows and materials)

GROUP 2: Semi-skilled wrecker (salvaging of other building materials)

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LAB00261-015 07/01/2018

Rates Fringes

Plasterer tender...............$ 32.02 23.00

Work on a swing stage scaffold: $1.00 per hour additional.

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LAB00324-004 06/25/2018

NAPA, SOLANO, AND SONOMA, COUNTIES
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<thead>
<tr>
<th>Laborer Type</th>
<th>Rates</th>
<th>Fringes</th>
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<tbody>
<tr>
<td>Escort Driver, Flag Person.</td>
<td>$29.54</td>
<td>23.65</td>
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<tr>
<td>Traffic Control Person I</td>
<td>$29.84</td>
<td>23.65</td>
</tr>
<tr>
<td>Traffic Control Person II</td>
<td>$27.34</td>
<td>23.65</td>
</tr>
</tbody>
</table>

**TRAFFIC CONTROL PERSON I:** Layout of traffic control, crash cushions, construction area and roadside signage.

**TRAFFIC CONTROL PERSON II:** Installation and removal of temporary/permanent signs, markers, delineators and crash cushions.

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**LABO0324-008 06/25/2018**

**NAPA, SOLANO, AND SONOMA COUNTIES**

<table>
<thead>
<tr>
<th>Laborer Type</th>
<th>Rates</th>
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<tbody>
<tr>
<td>Tunnel and Shaft Laborers:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GROUP 1</td>
<td>$37.82</td>
<td>24.11</td>
</tr>
<tr>
<td>GROUP 2</td>
<td>$37.59</td>
<td>24.11</td>
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<tr>
<td>GROUP 3</td>
<td>$37.34</td>
<td>24.11</td>
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<tr>
<td>GROUP 4</td>
<td>$36.89</td>
<td>24.11</td>
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<tr>
<td>GROUP 5</td>
<td>$36.35</td>
<td>24.11</td>
</tr>
<tr>
<td>Shotcrete Specialist</td>
<td>$30.34</td>
<td>24.11</td>
</tr>
</tbody>
</table>

**TUNNEL AND SHAFT CLASSIFICATIONS**

**GROUP 1:** Diamond driller; Groundmen; Gunite and shotcrete nozzlemen

**GROUP 2:** Rodmen; Shaft work & raise (below actual or excavated ground level)

**GROUP 3:** Bit grinder; Blaster, driller, powdermen, heading; Cherry pickermen - where car is lifted; Concrete finisher in tunnel; Concrete screedman; Grout pumpman and potman; Gunite & shotcrete gunman & potman; Headermen; High pressure nozzleman; Miner - tunnel, including top and bottom man on shaft and raise work; Nipper; Nozzleman on slick line; Sandblaster - potman, Robotic Shotcrete Placer, Segment Erector, Tunnel Muck Hauler, Steel Form raiser and setter; Timberman, retimberman (wood or steel or substitute materials otherwise); Tugger (for tunnel laborer work); Cable tender; Chuck tender; Powderman - primer house

**GROUP 4:** Vibrator operator, pavement breaker; Bull gang - muckers, trackmen; Concrete crew - includes rodding and spreading, Dumpmen (any method)

**GROUP 5:** Grout crew; Reboundman; Swampers/ Brakeman

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**LABO0324-010 07/01/2018**

**SOLANO AND SONOMA COUNTIES**

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Mason Tender-Brick........ $ 31.45

LAB08324-013 06/25/2018

NAPA, SOLANO, AND SONOMA COUNTIES

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<td>LABORER (CONSTRUCTION CRAFT)</td>
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<td>LABORERS - AREA B:</td>
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<td>Construction Specialist</td>
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<tr>
<td>Group........................ $ 30.49</td>
<td>23.20</td>
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<tr>
<td>GROUP 1........................ $ 29.79</td>
<td>23.20</td>
</tr>
<tr>
<td>GROUP 1-a........................ $ 30.01</td>
<td>23.20</td>
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<tr>
<td>GROUP 1-c........................ $ 29.84</td>
<td>23.20</td>
</tr>
<tr>
<td>GROUP 1-e........................ $ 30.34</td>
<td>23.20</td>
</tr>
<tr>
<td>GROUP 1-f........................ $ 29.37</td>
<td>23.20</td>
</tr>
<tr>
<td>GROUP 2........................ $ 29.64</td>
<td>23.20</td>
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<tr>
<td>GROUP 3........................ $ 29.54</td>
<td>23.20</td>
</tr>
<tr>
<td>GROUP 4........................ $ 23.23</td>
<td>23.20</td>
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</table>

See groups 1-b and 1-d under laborer classifications.

LABORER (GARDENERS, HORTICULTURAL & LANDSCAPE)

LABORERS - AREA B: |

(1) New Construction........ $ 29.54 | 23.20
(2) Establishment Warranty Period........ $ 23.23 | 23.20

LABORER (GUNITE - AREA B:)

| GROUP 1........................ $ 29.75 | 22.31 |
| GROUP 2........................ $ 29.25 | 22.31 |
| GROUP 3........................ $ 28.66 | 22.31 |
| GROUP 4........................ $ 28.54 | 22.31 |

LABORER (WRECKING - AREA B:)

| GROUP 1........................ $ 29.79 | 23.20 |
| GROUP 2........................ $ 29.64 | 23.20 |

FOOTNOTES:

Laborers working off or with or from bos’n chairs, swinging scaffolds, belts shall receive $0.25 per hour above the applicable wage rate. This shall not apply to workers entitled to receive the wage rate set forth in Group 1-a below.

LABORER CLASSIFICATIONS

CONSTRUCTION SPECIALIST GROUP: Asphalt ironer and raker; Chainsaw; Laser beam in connection with laborers’ work; Cast-in- place manhole form setter; Pressure pipelayer; Davis trencher - 300 or similar type (and all small trenchers); Blaster; Diamond driller; Multiple unit drill; Hydraulic drill

GROUP 1: Asphalt spreader boxes (all types); Barko, Wacker and similar type tampers; Buggymobile; Caulker, bander, pipewrapper, conduit layer, plastic pipelayer; Certified hazardous waste worker including Leade Abatement; Compactors of all types; Concrete and magnesite mixer, 1/2 yd. and under; Concrete pan work; Concrete sander; Concrete saw; Cribber and/or shoring; Cut granite curb setter; Dri-pak-it machine; Faller, logloader and bucker; Form raiser, slip forms; Green cutter; Headerboard, Hubsetter, aligner, by any method; High pressure blow pipe (1-1/2" or
over, 100 lbs. pressure/over); Hydro seeder and similar type; Jackhammer operator; Jacking of pipe over 12 inches; Jackson and similar type compactor; Kettle tender, pot and worker applying asphalt, lay-kold, creosote, lime, caustic and similar type materials (applying means applying, dipping or handling of such materials); Lagging, sheeting, whaling, bracing, trenchjacking, lagging hammer; Magnesite, epoxyresin, fiberglass, mastic worker (wet or dry); No joint pipe and stripping of same, including repair of voids; Pavement breaker and spader, including tool grinder; Perma curb, Pipe layer (including grade checking in connection with pipelaying); Precast manhole setter; Pressure pipe tester; Post hole digger, air, gas and electric; Power broom sweeper; Power tampers of all types (except as shown in Group 7); Ram set gun and stud gun; Riprap stonemauer and rock-slinger, including placing of sacked concrete and/or sand (wet or dry) and gabions and similar type; Rotary scarifier or multiple head concrete chipping scarifier; Roto and Ditch Witch; Rototiller; Sandblaster, pot, gun, nozzle operators; Signalling and rigging; Tank cleaner; Tree climber; Turbo blaster; Vibрасcreeed, bull float in connection with laborers' work; Vibrator; Hazardous waste worker (lead removal); Asbestos and mold removal worker

GROUP 1-a: Joy drill model TWJ-2A; Gardner-Denver model DH143 and similar type drills; Track driller; Jack leg driller; Wagon driller; Mechanical drillers, all types regardless of type or method of power; Mechanical pipe layers, all types regardless of type or method of power; Blaster and powder; All work of loading, placing and blasting of all powder and explosives of whatever type regardless of method used for such loading and placing; High scalers (including drilling of same); Tree topper; Bit grinder

GROUP 1-b: Sewer cleaners shall receive $4.00 per day above Group 1 wage rates. "Sewer cleaner" means any worker who handles or comes in contact with raw sewage in small diameter sewers. Those who work inside recently active, large diameter sewers, and all recently active sewer manholes shall receive $5.00 per day above Group 1 wage rates.

GROUP 1-c: Burning and welding in connection with laborers' work; Synthetic thermoplastics and similar type welding

GROUP 1-d: Maintenance and repair track and road beds. All employees performing work covered herein shall receive $.25 per hour above their regular rate for all work performed on underground structures not specifically covered herein. This paragraph shall not be construed to apply to work below ground level in open cut. It shall apply to cut and cover work of subway construction after the temporary cover has been placed.

GROUP 1-e: Work on and/or in bell hole footings and shafts thereof, and work on and in deep footings. (A deep footing is a hole 15 feet or more in depth.) In the event the depth of the footing is unknown at the commencement of excavation, and the final depth exceeds 15 feet, the deep footing wage rate would apply to all employees for each and every day worked on or in the excavation of the footing from the date of inception.

GROUP 1-f: Wire winding machine in connection with guniting
or shot crete

GROUP 2: Asphalt shoveler; Cement dumper and handling dry cement or gypsum; Choke-setter and rigger (clearing work); Concrete bucket dumper and chute; Concrete chipping and grinding; Concrete laborer (wet or dry); Driller tender, chuck tender, nipper; Guinea chaser (stake), grout crew; High pressure nozzle, adductor; Hydraulic monitor (over 100 lbs. pressure); Loading and unloading, carrying and hauling of all rods and materials for use in reinforcing concrete construction; Pittsburgh chippers and similar type brush shredders; Sloper; Single foot, hand-held, pneumatic tamper; All pneumatic, air, gas and electric tools not listed in Groups 1 through 1-f; Jacking of pipe - under 12 inches

GROUP 3: Construction laborers, including bridge and general laborer; Dump, load spotter; Flag person; Fire watcher; Fence erector; Guardrail erector; Gardener, horticultural and landscape laborer; Jetting; Limber, brush loader and piler; Pavement marker (button setter); Maintenance, repair track and road beds; Streetcar and railroad construction track laborer; Temporary air and water lines, Victaulic or similar; Tool room attendant (jobsite only)

GROUP 4: Final clean-up work of debris, grounds and building including but not limited to: street cleaner; cleaning and washing windows; brick cleaner (jobsite only); material cleaner (jobsite only). The classification "material cleaner" is to be utilized under the following conditions:
A: at demolition site for the salvage of the material.
B: at the conclusion of a job where the material is to be salvaged and stocked to be reused on another job.
C: for the cleaning of salvage material at the jobsite or temporary jobsite yard.

The material cleaner classification should not be used in the performance of "form stripping, cleaning and oiling and moving to the next point of erection".

----------------------------------------

GUNITE LABORER CLASSIFICATIONS

GROUP 1: Structural Nozzleman

GROUP 2: Nozzleman, Gunman, Potman, Groundman

GROUP 2: Reboundman

GROUP 4: Gunite laborer

----------------------------------------

WRECKING WORK LABORER CLASSIFICATIONS

GROUP 1: Skilled wrecker (removing and salvaging of sash, windows and materials)

GROUP 2: Semi-skilled wrecker (salvaging of other building materials)
Rates Fringes
Plasterer tender.................. $32.02 23.00

Work on a swing stage scaffold: $1.00 per hour additional.

PAIN0016-004 01/01/2019

MARIN, NAPA, SOLANO & SONOMA COUNTIES

Rates Fringes
Painters:.......................... $42.67 24.03

PREMIUMS:
EXOTIC MATERIALS - $0.75 additional per hour.
SPRAY WORK: - $0.50 additional per hour.
INDUSTRIAL PAINTING - $0.25 additional per hour
[Work on industrial buildings used for the manufacture and processing of goods for sale or service; steel construction (bridges), stacks, towers, tanks, and similar structures]

HIGH WORK:
over 50 feet - $2.00 per hour additional
100 to 180 feet - $4.00 per hour additional
Over 180 feet - $6.00 per hour additional

* PAIN0016-005 01/01/2019

ALPINE, BUTTE, COLUSA, EL DORADO (west of the Sierra Nevada Mountains), GLENN, LASSEN (west of Hwy. 395, excluding Honey Lake); MARIN, MODOC, NAPA, NEVADA (west of the Sierra Nevada Mountains), PLACER (west of the Sierra Nevada Mountains).
PLUMAS, SACRAMENTO, SHASTA, SIERRA (west of the Sierra Nevada Mountains), SISKIYOU, SOLANO, SONOMA, SUTTER, TEHAMA, TRINITY, YOLO AND YUBA COUNTIES

Rates Fringes
DRYWALL FINISHER/TAPER......... $45.23 25.64

PAIN0016-007 01/01/2019

ALPINE, AMADOR, BUTTE, COLUSA, EL DORADO (west of the Sierra Nevada Mountains), GLENN, LASSEN (west of Highway 395, excluding Honey Lake), MODOC, NEVADA (west of the Sierra Nevada Mountains), PLACER (west of the Sierra Nevada Mountains), PLUMAS, SACRAMENTO, SHASTA, SIERRA (west of the Sierra Nevada Mountains), SISKIYOU, SUTTER, TEHAMA, TRINITY, YOLO & YUBA COUNTIES

Rates Fringes
Painters:.......................... $33.68 20.24

SPRAY/SANDBLAST: $0.50 additional per hour.
EXOTIC MATERIALS: $1.00 additional per hour.
HIGH TIME: Over 50 ft above ground or water level $2.00 additional per hour.
100 to 180 ft above ground or water level $4.00 additional per hour.
Over 180 ft above ground or water level $6.00 additional per hour.
MARIN, NAPA, SOLANO AND SONOMA COUNTIES

Rates Fringes

SOFT FLOOR LAYER.................$ 48.60 27.43

* PAIN0169-004 07/01/2019

MARIN, NAPA & SONOMA COUNTIES; SOLANO COUNTY (west of a line defined as follows: Hwy. 80 corridor beginning at the City of Fairfield, including Travis Air Force Base and Suisun City; going north of Manakas Corner Rd., continue north on Suisun Valley Rd. to the Napa County line; Hwy. 80 corridor south on Grizzly Island Rd. to the Grizzly Island Management area)

Rates Fringes

GLAZIER............................$ 50.62 29.10

* PAIN0567-001 07/01/2018

EL DORADO COUNTY (east of the Sierra Nevada Mountains); LASSEN COUNTY (east of Highway 395, beginning at Stacey and including Honey Lake); NEVADA COUNTY (east of the Sierra Nevada Mountains); PLACER COUNTY (east of the Sierra Nevada Mountains); AND SIERRA COUNTY (east of the Sierra Nevada Mountains)

Rates Fringes

Painters:
  Brush and Roller..............$ 26.70 13.04
  Spray Painter & Paperhanger.$ 28.04 13.04

PREMIUMS:
  Special Coatings (Brush), and Sandblasting = $0.50/hr
  Special Coatings (Spray), and Steeplejack = $1.00/hr
  Special Coating Spray Steel = $1.25/hr
  Swing Stage = $2.00/hr

  *A special coating is a coating that requires the mixing of 2 or more products.

* PAIN0567-007 07/01/2019

EL DORADO COUNTY (east of the Sierra Nevada Mountains); LASSEN COUNTY (east of Highway 395, beginning at Stacey and including Honey Lake); NEVADA COUNTY (east of the Sierra Nevada Mountains); PLACER COUNTY (east of the Sierra Nevada Mountains) AND SIERRA COUNTY (east of the Sierra Nevada Mountains)

Rates Fringes

SOFT FLOOR LAYER.................$ 30.30 14.44

* PAIN0567-010 07/01/2019

EL DORADO COUNTY (east of the Sierra Nevada Mountains); LASSEN
COUNTY (east of Highway 395, beginning at Stacey and including Honey Lake); NEVADA COUNTY (east of the Sierra Nevada Mountains); PLACER COUNTY (east of the Sierra Nevada Mountains); AND SIERRA COUNTY (east of the Sierra Nevada Mountains)

<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drywall</td>
<td></td>
</tr>
<tr>
<td>(1) Taper</td>
<td>$35.41</td>
</tr>
<tr>
<td>(2) Steeplejack - Taper, over 40 ft with open space below</td>
<td>$34.91</td>
</tr>
</tbody>
</table>

* PAIN0767-004 07/01/2019

ALPINE, AMADOR, BUTTE, COLUSA, EL DORADO, GLENN, LASSEN, MODOC, NEVADA, PLACER, PLUMAS, SACRAMENTO, SHASTA, SIERRA, SISKIYOU, SOLANO (Remainder), SUTTER, TEHAMA, TRINITY, YOLO, YUBA

<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLAZIER</td>
<td>$39.06</td>
</tr>
</tbody>
</table>


Employee required to wear a body harness shall receive $1.50 per hour above the basic hourly rate at any elevation.

* PAIN1176-001 07/01/2019

HIGHWAY IMPROVEMENT

<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parking Lot Striping/Highway Marking</td>
<td></td>
</tr>
<tr>
<td>GROUP 1</td>
<td>$37.68</td>
</tr>
<tr>
<td>GROUP 2</td>
<td>$32.03</td>
</tr>
<tr>
<td>GROUP 3</td>
<td>$32.40</td>
</tr>
</tbody>
</table>

CLASSIFICATIONS

GROUP 1: Striper: Layout and application of painted traffic stripes and marking; hot thermo plastic; tape, traffic stripes and markings

GROUP 2: Gamecourt & Playground Installer

GROUP 3: Protective Coating, Pavement Sealing

* PAIN1237-001 01/01/2019

ALPINE; COLUSA; EL DORADO (west of the Sierra Nevada Mountains); GLENN; LASSEN (west of Highway 395, beginning at Stacey and including Honey Lake); MODOC; NEVADA (west of the Sierra Nevada Mountains); PLACER (west of the Sierra Nevada Mountains); PLUMAS; SACRAMENTO; SHASTA; SIERRA (west of the Sierra Nevada Mountains); SISKIYOU; SUTTER; TEHAMA; TRINITY;
YOLO AND YUBA COUNTIES

<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
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</thead>
<tbody>
<tr>
<td>$36.81</td>
<td>22.39</td>
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PLAS0300-003 07/01/2018

PLASTERER

<table>
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<th>Rates</th>
<th>Fringes</th>
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<tbody>
<tr>
<td>$32.70</td>
<td>31.68</td>
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PLAS0300-005 07/01/2017

CEMENT MASON/CONCRETE FINISHER...

<table>
<thead>
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<th>Rates</th>
<th>Fringes</th>
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</thead>
<tbody>
<tr>
<td>$33.49</td>
<td>23.67</td>
</tr>
</tbody>
</table>

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PLUM0038-002 07/01/2019

MARIN AND SONOMA COUNTIES

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<thead>
<tr>
<th>Rates</th>
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</thead>
<tbody>
<tr>
<td>$74.16</td>
<td>43.59</td>
</tr>
</tbody>
</table>

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PLUM0038-006 07/01/2019

PLUMBER (Plumber, Steamfitter, Refrigeration Fitter)

1. Work on wooden frame structures 5 stories or less excluding high-rise buildings and commercial work such as hospitals, prisons, hotels, schools, casinos, wastewater treatment plants, and research facilities as well as refrigeration pipefitting, service and repair work - MARKET

<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
</tr>
</thead>
<tbody>
<tr>
<td>$74.16</td>
<td>43.59</td>
</tr>
</tbody>
</table>

2. All other work - NEW

---

MARIN & SONOMA COUNTIES

<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
</tr>
</thead>
<tbody>
<tr>
<td>$63.04</td>
<td>31.48</td>
</tr>
</tbody>
</table>

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PLUM0228-001 01/01/2020

Landscape/Irrigation Fitter

(Underground/Utility Fitter)...

<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
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</thead>
<tbody>
<tr>
<td>$63.04</td>
<td>31.48</td>
</tr>
<tr>
<td>Rates</td>
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</tr>
<tr>
<td>-------------</td>
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</tr>
<tr>
<td>$41.25</td>
<td>33.14</td>
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PLUM0343-001 07/01/2019

NAAPA AND SOLANO COUNTIES

<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
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<tbody>
<tr>
<td>$30.85</td>
<td>20.40</td>
</tr>
<tr>
<td>$52.50</td>
<td>37.37</td>
</tr>
</tbody>
</table>

DEFINITION OF LIGHT COMMERCIAL:
Work shall include strip shopping centers, office buildings, schools and other commercial structures which the total plumbing bid does not exceed Two Hundred and Fifty Thousand ($250,000) and the total heating and cooling does not exceed Two Hundred Fifty Thousand ($250,000); or Any projects bid in phases shall not qualify unless the total project is less than Two Hundred Fifty Thousand ($250,000) for the plumbing bid; and Two Hundred Fifty Thousand ($250,000) for the heating and cooling bid. Excluded are hospitals, jails, institutions and industrial projects, regardless size of the project.

FOOTNOTES: While fitting galvanized material: $.75 per hour additional. Work from trusses, temporary staging, unguarded structures 35' from the ground or water: $.75 per hour additional. Work from swinging scaffolds, boatawains chairs or similar devices: $.75 per hour additional.

PLUM0350-001 08/01/2019

EL DORADO COUNTY (Lake Tahoe area only); NEVADA COUNTY (Lake Tahoe area only); AND PLACER COUNTY (Lake Tahoe area only)

<table>
<thead>
<tr>
<th>Rates</th>
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<tbody>
<tr>
<td>$45.84</td>
<td>13.81</td>
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</tbody>
</table>

PLUM0355-001 07/01/2019

ALPINE, AMADOR, BUTTE, COLUSA, EL DORADO, GLENN, LASSEN, MODOC, NAPA, NEVADA, PLACER, PLUMAS, SACRAMENTO, SHAsta, SIERRA, SISKIYOU, SOLANO, SUTTER, TEHAMA, TRINITY, YOLO, AND YUBA COUNTIES

<table>
<thead>
<tr>
<th>Rates</th>
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<tbody>
<tr>
<td>$29.00</td>
<td>15.80</td>
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Underground Utility Worker

<table>
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<tr>
<th>Rates</th>
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</thead>
<tbody>
<tr>
<td>$29.00</td>
<td>15.80</td>
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</tbody>
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PLUM0442-003 01/01/2020

AMADOR (South of San Joaquin River) and ALPINE COUNTIES

https://beta.sam.gov/wage-determination/CA20200007/2?index=wd&ia_active=true&date_filter_index=0&date_rad_selection=date&wdType=dra&c... 30/45
<table>
<thead>
<tr>
<th>Rates</th>
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<tbody>
<tr>
<td>PLUMBER</td>
<td>44.50</td>
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<tr>
<td>PLUM0447-001 07/01/2018</td>
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<tr>
<td>AMADOR (north of San Joaquin River), EL DORADO (excluding Lake Tahoe area), NEVADA (excluding Lake Tahoe area); PLACER (excluding Lake Tahoe area), SACRAMENTO AND YOLO COUNTIES</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
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</thead>
<tbody>
<tr>
<td>PLUMBER/Journeyman</td>
<td>49.67</td>
</tr>
<tr>
<td>PLUMBER/Light Commercial Work</td>
<td>36.23</td>
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<tr>
<td>ROOF0081-006 08/01/2019</td>
<td></td>
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<tr>
<td>MARIN, NAPA, SOLANO AND SONOMA COUNTIES</td>
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<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
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<tbody>
<tr>
<td>Roofer</td>
<td>40.10</td>
</tr>
<tr>
<td>ROOF0081-007 08/01/2019</td>
<td></td>
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<tr>
<td>ALPINE, BUTTE, COLUSA, EL DORADO, GLENN, LASSEN, MODOC, NEVADA, PLACER, PLUMAS, SACRAMENTO, SHASTA, SIERRA, SISKIYOU, SUTTER, TEHAMA, TRINITY, YOLO AND YUBA COUNTIES</td>
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<table>
<thead>
<tr>
<th>Rates</th>
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<tbody>
<tr>
<td>Roofer</td>
<td>38.28</td>
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<tr>
<td>SFCA0483-003 07/29/2019</td>
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<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
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</thead>
<tbody>
<tr>
<td>SPRINKLER FITTER (Fire Sprinklers)</td>
<td>65.52</td>
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<tr>
<td>SFCA0669-003 04/01/2019</td>
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<tr>
<td>ALPINE, BUTTE, COLUSA, EL DORADO, GLENN, LASSEN, MODOC, NEVADA, PLACER, PLUMAS, SACRAMENTO, SHASTA, SIERRA, SISKIYOU, SUTTER, TEHAMA, TRINITY, YOLO AND YUBA COUNTIES</td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPRINKLER FITTER</td>
<td>40.77</td>
</tr>
<tr>
<td>* SHEE004-006 07/01/2019</td>
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</tr>
<tr>
<td>MARIN, NAPA, SOLANO &amp; TRINITY COUNTIES</td>
<td></td>
</tr>
</tbody>
</table>

Sheet Metal Worker Mechanical Contracts
**202,000 or less...........$ 53.67**  
All other work.............$ 61.36

* SHEE0104-009 07/01/2019

AMADOR, COLUSA, EL DORADO, NEVADA, PLACER, SACRAMENTO, SUTTER, YOLO AND YUBA COUNTIES

<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
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</thead>
<tbody>
<tr>
<td>SHEET METAL WORKER...........$ 44.00</td>
<td>39.63</td>
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</table>

* SHEE0104-010 07/01/2019

AIPINE COUNTY

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<tbody>
<tr>
<td>SHEET METAL WORKER...........$ 41.20</td>
<td>36.84</td>
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</tbody>
</table>

* SHEE0104-011 07/01/2019

BUTTE, COLUSA, EL DORADO, GLENN, LASSEN, MODOC, NEVADA, PLACER, PLUMAS, SACRAMENTO, SHASTA, SIERRA, SISKIYOU, SUTTER, TEHAMA, YOLO AND YUBA COUNTIES

<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sheet Metal Worker (Metal decking and siding only)...........$ 44.00</td>
<td>39.63</td>
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</tbody>
</table>

* SHEE0104-014 07/01/2019

MARIN, NAPA, SOLANO, SONOMA AND TRINITY COUNTIES

<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
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</thead>
<tbody>
<tr>
<td>SHEET METAL WORKER (Metal Decking and Siding only)...........$ 42.33</td>
<td>35.30</td>
</tr>
</tbody>
</table>

* SHEE0104 010 07/01/2019

BUTTE, GLENN, LASSEN, MODOC, PLUMAS, SHASTA, SIERRA, SISKIYOU AND TEHAMA COUNTIES

<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
</tr>
</thead>
</table>
| SHEET METAL WORKER  
Mechanical Jobs $200,000 & under:............$ 33.31 | 35.30  
Mechanical Jobs over  
$200,000.............$ 44.00 | 35.30 

* TEAM0094-001 07/01/2018

<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
</tr>
</thead>
</table>
| Truck drivers:  
GROUP 1.................$ 31.68 | 27.86  
GROUP 2.................$ 31.98 | 27.86  
GROUP 3.................$ 32.28 | 27.86  
GROUP 4.................$ 32.63 | 27.86 |
FOOTNOTES:
Articulated dump truck; Bulk cement spreader (with or without auger); Dumpcrete truck; Skid truck (debris box); Dry pre-batch concrete mix trucks; Dumpster or similar type; Slurry truck: Use dump truck yardage rate.
Heater planer; Asphalt burner; Scarifier burner; Industrial lift truck (mechanical tailgate); Utility and clean-up truck: Use appropriate rate for the power unit or the equipment utilized.

TRUCK DRIVER CLASSIFICATIONS

GROUP 1: Dump trucks, under 6 yds.; Single unit flat rack (2-axle unit); Nipper truck (when flat rack truck is used appropriate flat rack shall apply); Concrete pump truck (when flat rack truck is used appropriate flat rack shall apply); Concrete pump machine; Fork lift and lift jitneys; Fuel and/or grease truck driver or fuel person; Snow buggy; Steam cleaning; Bus or personhaul driver; Escort or pilot car driver; Pickup truck; Teamster oiler/greaser and/or serviceperson; Hook tender (including loading and unloading); Team driver; Tool room attendant (refineries)

GROUP 2: Dump trucks, 6 yds. and under 8 yds.; Transit mixers, through 10 yds.; Water trucks, under 7,000 gals.; Jetting trucks, under 7,000 gals.; Single-unit flat rack (3-axle unit); Highbed heavy duty transport; Scissor truck; Rubber-tired muck car (not self-loaded); Rubber-tired truck jumbo; Winch truck and "A" frame drivers; Combination winch truck with hoist; Road oil truck or bootperson; Buggymobile: Ross, Hyster and similar straddle carriers; Small rubber-tired tractor

GROUP 3: Dump trucks, 8 yds. and including 24 yds.; Transit mixers, over 10 yds.; Water trucks, 7,000 gals. and over; Jetting trucks, 7,000 gals. and over; Vacuum trucks under 7500 gals. Trucks towing tilt bed or flat bed pull trailers; Lowbed heavy duty transport; Heavy duty transport tiller person; Self-propelled street sweeper with self contained refuse bin; Boom truck – hydro lift or Swedish type extension or retracting crane; P.B. or similar type self-loading truck; Tire repairperson; Combination bootperson and road oiler; Dry distribution truck (A bootperson when employed on such equipment, shall receive the rate specified for the classification of road oil trucks or bootperson); Ammonia nitrate distributor, driver and mixer; Snow Go and/or plow

GROUP 4: Dump trucks, over 25 yds. and under 65 yds.; Water pulls - DW 10's, 20's, 21's and other similar equipment when pulling Aqua/pak or water tank trailers; Helicopter pilots (when transporting men and materials); Lowbed Heavy Duty Transport up to including 7 axles; DW10's, 20's, 21's and other similar Cat type, Terra Cobra, LeTourneau Pulls, Tournorocker, Euclid and similar type equipment when pulling fuel and/or grease tank trailers or other miscellaneous trailers; Vacuum Trucks 7500 gals and over and truck repairman

GROUP 5: Dump trucks, 65 yds. and over; Holland hauler; Low bed Heavy Duty Transport over 7 axles
WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than "SU" or "UAVG" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers
Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

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WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:
* an existing published wage determination
* a survey underlying a wage determination
* a Wage and Hour Division letter setting forth a position on a wage determination matter
* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

---------------------------------------------

END OF GENERAL DECISION"
Important Special Notice

Bidders are advised that, as required by federal law, the City of Sacramento is implementing new Disadvantaged Business Enterprise (DBE) requirements. Section 2, "Proposal Requirements and Conditions," under subsection titled "Disadvantaged Business Enterprises (DBE)" and Section 5, "General," under subsection titled "Performance of Subcontractors" of these Special Provisions cover the DBE requirements.
PRE-BID MEETING

All bidders are encouraged, but not required, to attend the pre-bid conference. At this meeting, requirements pertaining to “Disadvantaged Business Enterprise” (DBE) Program will be reviewed and any questions pertaining to the project will be answered. This meeting is also to inform DBEs of subcontracting and material supply opportunities.

The conference will be held at:

New Sacramento City Hall
915 I Street, Room 2000
Conference Room 2105
Sacramento, CA 95814

For information regarding the DBE Program, contact Jose Ledesma at jledesma@cityofsacramento.org

DBE GOAL FOR THIS PROJECT IS SET AT 18%
CITY OF SACRAMENTO

DEPARTMENT OF PUBLIC WORKS

FEDERAL AID PROJECT NO.: ATPL 5002 (173)

CITY CONTRACT NO.: T15145500

NOTICE TO BIDDERS

Sealed proposals and bids for the work entitled:

MEADOWVIEW ROAD COMPLETE STREET PROJECT

(PN: T15145500)

will be received by the City Clerk of the City of Sacramento at the Office of the City Clerk, 915 I Street (New City Hall), 5th Floor, up to the hour of 2:00 P.M., Wednesday February 19, 2020 and will be publicly opened and read at 2:00 P.M., or as soon thereafter as business allows, in Hearing Room on 2nd Floor, 915 I Street (Historic City Hall).

General Project Description:

This project provides for, in general, widening the roadway, constructing median islands, curb, gutter, and sidewalk, curb ramps, re-striping, installing new drain inlets, leads and maintenance holes, adjusting water meters and valves to grade, installing trees, irrigation, traffic signals, roadside signs, and street lights as shown on the plans.

THIS PROJECT IS SUBJECT TO THE “BUY AMERICA” PROVISIONS OF THE SURFACE TRANSPORTATION ASSISTANCE ACT OF 1982 AS AMENDED BY MAP-21

The Contractor shall possess a license, or a combination of classes required by the categories and type of work included in this contract at the time this contract is awarded.

Bids are required for the entire work described herein. This contract is subject to the State contract nondiscrimination and compliance requirements pursuant to the Government Code Section 12990.

All such proposals received, and any work performed thereunder must comply with the requirements of Title 3 of the Sacramento City Code.

Bid protests must be filed and maintained in accordance with the provisions of Sections 3.60.460 through 3.60.560 of the Sacramento City Code. Bid protests that do not comply with Sections 3.60.460 through 3.60.560 of the Sacramento City Code shall be invalid and shall not be considered. A bid protest fee of $750.00 is required at the time of filing to be considered valid in accordance with City of Sacramento Resolution No. 2003-231 dated April 29, 2003. As used herein, the term "bid protest" includes any bid
protest that (1) claims that one or more bidders on this contract should be disqualified or rejected for any reason, or (2) contests a City staff recommendation to award this contract to a particular bidder, or (3) contests a City staff recommendation to disqualify or reject one or more bidders on this contract. A copy of Sections 3.60.460 through 3.60.560 of the Sacramento City Code may be obtained from the Contract Manager, or from the City Clerk, located at 5th Floor, New City Hall, 915 I Street, Sacramento, CA 95814.

Plans, Specifications, and copies of the Sealed Proposal Forms and accompanying documents for bidding this project can only be obtained at Planet Bids:

http://www.planetbids.com/portal/portal.cfm?CompanyID=15300

Bids must be submitted on printed forms supplied in the Contract Documents. Bids must be enclosed in an envelope marked:

SEALeD PROPOSAL AND BIDS
FOR
MEADOWVIEW ROAD COMPLETE STREET PROJECT
(PN: T15145500)

Technical questions should be directed to the Department of Public Works-Engineering Services Division, to the attention of the Project Manager, Zuhair Amawi, 915 I Street, Room 2000, Sacramento, California, 95814, at zamawi@cityofsacramento.org or telephone (916) 808-7620.

The successful bidder shall furnish a payment bond and a performance bonds for 100% of the contract amount.

The City of Sacramento hereby notifies all bidders that it will affirmatively insure that in any contract entered into pursuant to this advertisement, disadvantaged business enterprises will be afforded full opportunity to submit bids in response to this invitation.

Pursuant to Section 1773 of the Labor Code, the general prevailing wage rates in the county, or counties, in which the work is to be done have been determined by the Director of the California Department of Industrial Relations. These wages are set forth in the General Prevailing Wage Rates for this project, available from the California Department of Industrial Relations' Internet web site at http://www.dir.ca.gov. The Federal minimum wage rates for this project as predetermined by the United States Secretary of Labor are set forth in the books issued for bidding purposes entitled "Proposal and Contract," and in copies of this book that may be examined at the offices described above where project plans, special provisions, and proposal forms may be seen. Addenda to modify the Federal minimum wage rates, if necessary, will be issued to holders of "Proposal and Contract" books. Future effective general prevailing wage rates, which have been predetermined and are on file with the California Department of Industrial Relations are referenced but not printed in the general prevailing wage rates.

Attention is directed to the Federal minimum wage rate requirements in the project specifications and contract documents. If there is a difference between the minimum wage rates predetermined by the
Secretary of Labor and the general prevailing wage rates determined by the Director of the California Department of Industrial Relations for similar classifications of labor, the Contractor and subcontractors shall pay not less than the higher wage rate. The Department will not accept lower State wage rates not specifically included in the Federal minimum wage determinations. This includes "helper" (or other classifications based on hours of experience) or any other classification not appearing in the Federal wage determinations. Where Federal wage determinations do not contain the State wage rate determination otherwise available for use by the Contractor and subcontractors, the Contractor and subcontractors shall pay not less than the Federal minimum wage rate, which most closely approximates the duties of the employees in question.

The U.S. Department of Transportation (DOT) provides a toll-free "hotline" service to report bid rigging activities. Bid rigging activities can be reported Monday through Friday, between 8:00am and 5:00pm, Eastern Time, Telephone No. 1-800-424-9071. Anyone with knowledge of bid rigging, bidder collusion, or other fraudulent activities should use the "hotline" to report these activities. The "hotline" is part of the DOT's continuing effort to identify and investigate highway construction contract fraud and abuse and is operated under the direction of the DOT Inspector General. All information will be treated confidentially and caller anonymity will be respected.

Department of Industrial Relations Registration and Reporting Requirements (SB 854)

Labor Code Section 1725.5 (enacted by SB 854) requires all contractors bidding on this contract, all subcontractors listed in a bid for this contract, and any contractor or subcontractor performing any work under this contract, to be currently registered with the California Department of Industrial Relations (DIR), as specified in Labor Code Section 1725.5. Labor Code Section 1771.1 (enacted by SB 854) provides that a contractor or subcontractor shall not be qualified to bid on, be listed in a bid proposal (subject to the requirements of Section 4104 of the Public Contract Code), or engage in the performance of any contract for public work, unless currently registered and qualified to perform public work pursuant to Labor Code Section 1725.5. Every bidding contractor shall list the contractor’s current DIR registration number, and the current DIR registration number of all listed subcontractors, on the Subcontractor and Local Business Enterprise (LBE) Participation Verification Form included in the contractor’s bid.

Pursuant to Labor Code Section 1771.1(b): (1) any bid received from a contractor that is not currently registered and qualified to perform public work pursuant to Labor Code Section 1725.5 shall be rejected as non-responsive; and (2) any bid listing one or more subcontractors on the bidder’s Subcontractor and Local Business Enterprise (LBE) Participation Verification Form that are not currently registered and qualified to perform public work pursuant to Labor Code Section 1725.5, shall be rejected as non-responsive, unless the listing was an inadvertent error and any of the conditions specified in Labor Code Section 1771.1(c) apply.

This contract also is subject to compliance monitoring and enforcement by the DIR. For all contracts awarded on or after April 1, 2015, California Labor Code Section 1771.4 (enacted by SB 854) requires the contractor and all subcontractors to furnish electronic payroll records directly to the Labor Commissioner (in addition to City staff via the City’s electronic system).
CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

MEADOWVIEW ROAD COMPLETE STREET
PROJECT

Federal Aid Project No.: ATPI. 5002 (173)

City Project No.: T15145500

THE SPECIAL PROVISIONS CONTAINED HEREIN HAVE BEEN PREPARED BY OR
UNDER THE DIRECTION OF THE FOLLOWING REGISTERED ENGINEERS:

Civil:

[Signature]
Leo Rubio, Registered Civil Engineer

Electrical:

[Signature]
Kin Y. Chan, Registered Civil Engineer

Landscape:

[Signature]
Jose Leal, Registered Landscape Architect
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SPECIAL PROVISIONS
FOR
MEADOWVIEW ROAD COMPLETE STREET PROJECT

FEDERAL PROJECT NO.: ATPL 5002 (173)

(PN: T15145500)

SECTION NO. 1 - SPECIFICATIONS AND PLANS

The contract shall be administered in accordance with Sections 1 through 8 of the City Standard Specifications for Public Construction, City of Sacramento, dated June 2007. The work to be performed under this contract shall be in accordance with the Special Provisions contained herein. The General Requirements of this contract shall be governed by these Special Provisions first, followed by Section 1 through Section 8 of the City Standard Specifications. Other standards or specifications specified in these Special Provisions govern only the applicable technical specifications for the items of work referenced.

In case of conflict in the technical provisions or requirements, the following order of precedence shall govern:

A. Special Provisions
B. Plans
C. City Standard Specifications
D. State Standard Specifications
E. Other referenced specifications
F. State Standard Plans

Definitions of Terms

Whenever in the City Standard Specification, State Standard Specifications, Special Provisions, Notice to Contractors, Proposal, Contract or other contract documents the following abbreviations and terms are used, the intent and meaning shall be interpreted as follows:

**DEFINITIONS AND TERMS**

As used herein, unless the context otherwise requires, the following terms have the following meaning:

*Department* or *Department of Public Works*: The City of Sacramento, Department of Public Works.

*Director* or *Director of Transportation*: Director of Public Works, City of Sacramento.

*Engineer*: The Director of Public Works of the City of Sacramento, State of California, acting either directly or through properly authorized agents, such agents acting within the scope of the particular duties entrusted to them.
Laboratory: The established laboratory of the Materials and Research Department of the Department of Transportation of the State of California or laboratories authorized by the Engineer to test materials and work involved in the contract.

State or State of California: The City of Sacramento.

Transportation Building Sacramento: City Hall, City of Sacramento, State of California.

State Highway Engineer: The Director of Public Works of the City of Sacramento, State of California.


Attorney General: City Attorney, City of Sacramento

Required Meetings: Means that all bidders are encouraged to attend required meetings, however bidders who do not attend shall be responsible for all information disseminated.
SECTION NO. 2 - PROPOSAL REQUIREMENTS AND CONDITIONS

2.1 GENERAL
The bidder's attention is directed to the provisions in Section 2, "Proposal Requirements and Conditions," of these Contract Specifications for the requirements and conditions which the bidder must observe in the preparation of the proposal form and the submission of the bid.

Each proposal shall have listed therein the portion of the work that will be done by each subcontractor listed. A sheet for listing the subcontractors is included in the Proposal.

In conformance with Public Contract Code Section 7106, a Noncollusion Affidavit is included in the Proposal. Signing the Proposal shall also constitute signature of the Noncollusion Affidavit.

The contractor, sub recipient or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR part 26 in the award and administration of US DOT assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the recipient deems appropriate. Each subcontract signed by the bidder must include this assurance.

2.2 FEDERAL LOBBYING RESTRICTIONS
Section 1352, Title 31, United States Code prohibits Federal funds from being expended by the recipient or any lower tier sub recipient of a Federal-aid contract to pay for any person for influencing or attempting to influence a Federal agency or Congress in connection with the awarding of any Federal-aid contract, the making of any Federal grant or loan, or the entering into of any cooperative agreement.

If any funds other than Federal funds have been paid for the same purposes in connection with this Federal-aid contract, the recipient shall submit an executed certification and, if required, submit a completed disclosure form as part of the bid documents.

A certification for Federal-aid contracts regarding payment of funds to lobby Congress or a Federal agency is included in the Proposal. Exhibit 10-Q, "Disclosure of Lobbying Activities," with instructions for completion of the Standard Form is also included in the Proposal. Signing the Proposal shall constitute signature of the Certification.

The above referenced certification and disclosure of lobbying activities shall be included in each subcontract and any lower-tier contracts exceeding $100,000. All disclosure forms, but not certifications, shall be forwarded from tier to tier until received by the Engineer.

The Contractor, subcontractors and any lower-tier contractors shall file a disclosure form at the end of each calendar quarter in which there occurs any event that requires disclosure or that materially affects the accuracy of the information contained in any disclosure form previously filed by the Contractor, subcontractors and any lower-tier contractors. An event that materially affects the accuracy of the information reported includes:
(1) A cumulative increase if $25,000 or more in the amount paid or expected to be paid for influencing or attempting to influence a covered Federal action; or

(2) A change in the person(s) or individual(s) influencing or attempting to influence a covered Federal action; or

(3) A change in the officer(s), employees(s), or Member(s) contacted to influence or attempt to influence a covered Federal Action.

2.3 DISADVANTAGED BUSINESS ENTERPRISE (DBE)

Under 49 CFR 26.13(b):

The contractor, subrecipient or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR part 26 in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the recipient deems appropriate.

Take necessary and reasonable steps to ensure that DBEs have opportunity to participate in the contract (49 CFR 26).

To ensure equal participation of DBEs provided in 49 CFR 26.5, the Agency specifies a goal of 18%

Make work available to DBEs and select work parts consistent with available DBE subcontractors and suppliers.

Meet the DBE goal shown elsewhere in these special provisions or demonstrate that you made adequate good faith efforts to meet this goal.

It is your responsibility to verify that the DBE firm is certified as DBE at date of bid opening. For a list of DBEs certified by the California Unified Certification Program, go to: http://www.dot.ca.gov/hq/bep/find_certified.htm.

All DBE participation will count toward the California Department of Transportation’s federally mandated statewide overall DBE goal.

Credit for materials or supplies you purchase from DBEs counts towards the goal in the following manner:

- 100 percent counts if the materials or supplies are obtained from a DBE manufacturer.
- 60 percent counts if the materials or supplies are obtained from a DBE regular dealer.
- Only fees, commissions, and charges for assistance in the procurement and delivery of materials or supplies count if obtained from a DBE that is neither a manufacturer nor regular dealer. 49 CFR 26.55 defines "manufacturer" and "regular dealer."
You receive credit towards the goal if you employ a DBE trucking company that performs a commercially useful function as defined in 49 CFR 26.55(d)(1) through (4) and (6).

a. **DBE Commitment Submittal**

Submit the Exhibit 15-G *Construction Contract DBE Commitment* form, included in the Did book. If the form is not submitted with the bid, remove the form from the Did book before submitting your bid.

If the DBE Commitment form is not submitted with the bid, the apparent low bidder, the 2nd low bidder, and the 3rd low bidder must complete and submit the DBE Commitment form to the Agency. DBE Commitment form must be received by the Agency no later than 4:00 p.m. on the 4th business day after bid opening.

Other bidders do not need to submit the DBE Commitment form unless the Agency requests it. If the Agency requests you to submit a DBE Commitment form, submit the completed form within 4 business days of the request.

Submit written confirmation from each DBE stating that it is participating in the contract. Include confirmation with the DBE Commitment form. A copy of a DBE’s quote will serve as written confirmation that the DBE is participating in the contract.

If you do not submit the DBE Commitment form within the specified time, the Agency will find your bid nonresponsive.

b. **Good Faith Efforts Submittal**

If you have not met the DBE goal, complete and submit the DBE Information - Good Faith Efforts, Exhibit 15-H, form with the bid showing that you made adequate good faith efforts to meet the goal. Only good faith efforts directed towards obtaining participation by DBEs will be considered. If good faith efforts documentation is not submitted with the bid, it must be received by the Agency no later than 4:00 p.m. on the 4th business day after bid opening.

If your DBE Commitment form shows that you have met the DBE goal or if you are required to submit the DBE Commitment form, you must also submit good faith efforts documentation within the specified time to protect your eligibility for award of the contract in the event the Agency finds that the DBE goal has not been met.

Good faith efforts documentation must include the following information and supporting documents, as necessary:

1. Items of work you have made available to DBE firms. Identify those items of work you might otherwise perform with your own forces and those items that have been broken down into economically feasible units to facilitate DBE participation. For each item listed, show the dollar value and percentage of the total contract. It is your responsibility to demonstrate that sufficient work to meet the goal was made available to DBE firms.

2. Names of certified DBEs and dates on which they were solicited to bid on the project. Include the items of work offered. Describe the methods used for following up initial solicitations to determine with certainty if the DBEs were interested, and the dates of the follow-up. Attach supporting documents such as copies of letters, memos, facsimiles sent, telephone logs, telephone billing statements, and other evidence of solicitation. You are reminded to solicit
certified DBEs through all reasonable and available means and provide sufficient time to allow DBEs to respond.

3. Name of selected firm and its status as a DBE for each item of work made available. Include name, address, and telephone number of each DBE that provided a quote and their price quote. If the firm selected for the item is not a DBE, provide the reasons for the selection.

4. Name and date of each publication in which you requested DBE participation for the project. Attach copies of the published advertisements.

5. Names of agencies and dates on which they were contacted to provide assistance in contacting, recruiting, and using DBE firms. If the agencies were contacted in writing, provide copies of supporting documents.

6. List of efforts made to provide interested DBEs with adequate information about the plans, specifications, and requirements of the contract to assist them in responding to a solicitation. If you have provided information, identify the name of the DBE assisted, the nature of the information provided, and date of contact. Provide copies of supporting documents, as appropriate.

7. List of efforts made to assist interested DBEs in obtaining bonding, lines of credit, insurance, necessary equipment, supplies, and materials, excluding supplies and equipment that the DBE subcontractor purchases or leases from the prime contractor or its affiliate. If such assistance is provided by you, identify the name of the DBE assisted, nature of the assistance offered, and date assistance was provided. Provide copies of supporting documents, as appropriate.

8. Any additional data to support demonstration of good faith efforts.

The Agency may consider DBE commitments of the 2nd and 3rd bidders when determining whether the low bidder made good faith efforts to meet the DBE goal.

c. Exhibit 15-G - Construction Contract DBE Commitment

Complete and sign Exhibit 15-G Construction Contract DBE Commitment included in the contract documents regardless of whether DBE participation is reported.

Provide written confirmation from each DBE that the DBE is participating in the Contract. A copy of a DBE's quote serves as written confirmation. If a DBE is participating as a joint venture partner, the Agency encourages you to submit a copy of the joint venture agreement.

d. Subcontractor and Disadvantaged Business Enterprise

Use each DBE subcontractor as listed on Exhibit 12-B Bidder’s List of Subcontractors (DBE and Non-DBE) and Exhibit 15-G Construction Contract DBE Commitment form unless you receive authorization for a substitution.

The Agency requests the Contractor to:

1. Notify the Engineer of any changes to its anticipated DBE participation

2. Provide this notification before starting the affected work

3. Maintain records including:
   - Name and business address of each 1st-tier subcontractor
- Name and business address of each DBE subcontractor, DBE vendor, and DBE trucking company, regardless of tier
- Date of payment and total amount paid to each business

If you are a DBE contractor, include the date of work performed by your own forces and the corresponding value of the work.

Before the 15th of each month, submit a Monthly DBE Trucking Verification form.

If a DBE is decertified before completing its work, the DBE must notify you in writing of the decertification date. If a business becomes a certified DBE before completing its work, the business must notify you in writing of the certification date. Submit the notifications. On work completion, complete a Disadvantaged Business Enterprises (DBE) Certification Status Change, Exhibit 17-O, form. Submit the form within 30 days of contract acceptance.

Upon work completion, complete Exhibit 17-F Final Report – Utilization of Disadvantaged Business Enterprises (DBE), First-Tier Subcontractors. Submit it within 90 days of contract acceptance. The Agency will withhold $10,000 until the form is submitted. The Agency releases the withhold upon submission of the completed form.

e. Performance of Disadvantaged Business Enterprises

DBEs must perform work or supply materials as listed in the Exhibit 15-G Construction Contract DBE Commitment form, included in the Bid.

Do not terminate or substitute a listed DBE for convenience and perform the work with your own forces or obtain materials from other sources without authorization from the Agency.

The Agency authorizes a request to use other forces or sources of materials if it shows any of the following justifications:

1. Listed DBE fails or refuses to execute a written contract based on plans and specifications for the project.
2. You stipulated that a bond is a condition of executing the subcontract and the listed DBE fails to meet your bond requirements.
3. Work requires a contractor's license and listed DBE does not have a valid license under Contractor’s License Law.
4. Listed DBE fails or refuses to perform the work or furnish the listed materials.
5. Listed DBE’s work is unsatisfactory and not in compliance with the contract.
6. Listed DBE is ineligible to work on the project because of suspension or debarment.
7. Listed DBE becomes bankrupt or insolvent.
8. Listed DBE voluntarily withdraws with written notice from the Contract
9. Listed DBE is ineligible to receive credit for the type of work required.
10. Listed DBE owner dies or becomes disabled resulting in the inability to perform the work on the Contract.
11. Agency determines other documented good cause.

Notify the original DBE of your intent to use other forces or material sources and provide the reasons. Provide the DBE with 3 days to respond to your notice and advise you and
the Agency of the reasons why the use of other forces or sources of materials should not occur. Your request to use other forces or material sources must include:
1. One or more of the reasons listed in the preceding paragraph
2. Notices from you to the DBE regarding the request
3. Notices from the DBEs to you regarding the request

If a listed DBE is terminated or substituted, you must make good faith efforts to find another DBE to substitute for the original DBE. The substitute DBE must perform at least the same amount of work as the original DBE under the contract to the extent needed to meet the DBE goal.

The substitute DBE must be certified as a DBE at the time of request for substitution.

Unless the Agency authorizes (1) a request to use other forces or sources of materials or (2) a good faith effort for a substitution of a terminated DBE, the Agency does not pay for work listed on the Exhibit 15-G Construction Contract DBE Commitment form unless it is performed or supplied by the listed DBE or an authorized substitute.

2.4 COMMUNITY WORKFORCE TRAINING PROGRAM AND CITY'S COMMUNITY WORKFORCE TRAINING AGREEMENT (CWTA)
This project is subject to the requirements of the City’s Local Hire and Community Workforce Training Program and the City’s Community Workforce Training Agreement (CWTA). A copy of the CWTA and a summary of its requirements (CWTA Summary) is provided in Exhibit D to this solicitation. By submitting a bid, the Contractor acknowledges that it has read and understands all the requirements, terms, and conditions of the CWTA and CWTA Summary, and has included all costs associated with compliance with the CWTA in its bid.

The Contractor must execute Addendum A to the CWTA (“Agreement to be Bound”) and provide an executed original to the City before the contract can be awarded. Each subcontractor for Work covered by the CWTA, including subcontractors not listed at the time of bid or otherwise hired after contract award, must also execute Addendum A to the CWTA. No subcontractor may perform Work prior to executing Addendum A and providing the executed original to the City.

The failure to sign and submit Addendum A by any subcontractor, shall be grounds for subcontractor substitution and/or for the City to withhold payment for the Work performed in the absence of the necessary Addendum A.

Contractor must include the provisions of this section, as well as a copy of the CWTA and the CWTA Summary, in every subcontract for Work covered by the CWTA.

By submitting a bid, Contractor represents that the Contractor and all its subcontractors performing Work covered by the CWTA will execute the Addendum A if awarded the contract.

The failure to submit an Addendum A or to otherwise comply with the requirements of the CWTA on this project may also result in a future determination that the Contractor and/or
subcontractor is not responsible (pursuant to City Code section 3.60.020) when bidding on future projects for the City of Sacramento.
SECTION NO. 3 - AWARD AND EXECUTION OF CONTRACT

3.1 GENERAL
The bidder's attention is directed to the provisions in Section 3, "Award and Execution of Contract," of the City Standard Specifications and these special provisions for the requirements and conditions concerning award and execution of contract.

Bid protests are to be delivered to the following address: City of Sacramento, City Clerk's Office, New City Hall, 915 I St, 5th Floor, Sacramento, CA 95814

The award of the contract, if it be awarded, will be to the lowest responsible bidder whose bid complies with all the requirements prescribed.

The contract shall be executed by the successful bidder and shall be returned, together with the contract bonds, to the City so that it is received within 15 calendar days after award of contract by City. Failure to do so shall be just cause for forfeiture of the proposal guaranty. The executed contract documents shall be delivered to the following address: Jose I edesma, City of Sacramento, Department of Public Works, 915 I Street, Room 2000 Sacramento, CA 95814.

3.2 BID OPENING
The Agency publicly opens and reads bids at the time and place shown on the Notice to Bidders.

3.3 BID RIGGING
The U.S. Department of Transportation (DOT) provides a toll-free hotline to report bid rigging activities. Use the hotline to report bid rigging, bidder collusion, and other fraudulent activities. The hotline number is (800) 424-9071. The service is available 24 hours 7 days a week and is confidential and anonymous. The hotline is part of the DOT's effort to identify and investigate highway construction contract fraud and abuse and is operated under the direction of the DOT Inspector General.

3.4 CONTRACT AWARD
If the Agency awards the contract, the award is made to the lowest responsive and responsible bidder.

3.5 CONTRACTOR LICENSE
The Contractor must be properly licensed as a contractor from contract award through Contract acceptance (Public Contract Code § 10164).

General engineering contractor and electrical contractor tasks as defined by the California Business and Professional Code, the California Code of Regulations, and the California Contractors State License Board (CCSLB). The Contractor shall have a current and active Class A – General Engineering Contractor License issued by the CCSLB at the time of the bid submittal and throughout the construction period.
The Contractor, and/or subcontractors performing electrical contractor tasks, shall also have a
current and active Class C10 – Electrical Contractor License issued by the CCSLB at the time of
the bid submittal and throughout the construction period. The Contractor shall include the
license numbers, names of licensees, and any cited violations and violation investigations by the
CCSLB within three years prior to the date of the bid submittal in the bid proposal. Failure to
include this information will cause the bid to be deemed non-responsive.

3.6 CHANGED CONDITIONS

a. Differing Site Conditions

1. During the progress of the work, if subsurface or latent physical conditions are
encountered at the site differing materially from those indicated in the contract or
if unknown physical conditions of an unusual nature, differing materially from
those ordinarily encountered and generally recognized as inherent in the work
provided for in the contract, are encountered at the site, the party discovering such
conditions shall promptly notify the other party in writing of the specific differing
conditions before the site is disturbed and before the affected work is performed.

2. Upon written notification, the engineer will investigate the conditions, and if it is
determined that the conditions materially differ and cause an increase or decrease
in the cost or time required for the performance of any work under the contract, an
adjustment, excluding anticipated profits, will be made and the contract modified
in writing accordingly. The engineer will notify the contractor of the
determination whether or not an adjustment of the contract is warranted.

3. No contract adjustment which results in a benefit to the contractor will be allowed
unless the contractor has provided the required written notice.

b. Suspensions of Work Ordered by the Engineer

1. If the performance of all or any portion of the work is suspended or delayed by
the engineer in writing for an unreasonable period of time (not originally
anticipated, customary, or inherent to the construction industry) and the contractor
believes that additional compensation and/or contract time is due as a result of
such suspension or delay, the contractor shall submit to the engineer in writing a
request for adjustment within 7 calendar days of receipt of the notice to resume
work. The request shall set forth the reasons and support for such adjustment.

2. Upon receipt, the engineer will evaluate the contractor’s request. If the engineer
agrees that the cost and/or time required for the performance of the contract has
increased as a result of such suspension and the suspension was caused by
conditions beyond the control of and not the fault of the contractor, its suppliers,
or subcontractors at any approved tier, and not caused by weather, the engineer
will make an adjustment (excluding profit) and modify the contract in writing
accordingly. The contractor will be notified of the engineer’s determination
whether or not an adjustment of the contract is warranted.
3. No contract adjustment will be allowed unless the contractor has submitted the request for adjustment within the time prescribed.

4. No contract adjustment will be allowed under this clause to the extent that performance would have been suspended or delayed by any other cause, or for which an adjustment is provided or excluded under any other term or condition of this contract.

c. **Significant Changes in the Character of Work**

1. The engineer reserves the right to make, in writing, at any time during the work, such changes in quantities and such alterations in the work as are necessary to satisfactorily complete the project. Such changes in quantities and alterations shall not invalidate the contract nor release the surety, and the contractor agrees to perform the work as altered.

2. If the alterations or changes in quantities significantly change the character of the work under the contract, whether such alterations or changes are in themselves significant changes to the character of the work or by affecting other work cause such other work to become significantly different in character, an adjustment, excluding anticipated profit, will be made to the contract. The basis for the adjustment shall be agreed upon prior to the performance of the work. If a basis cannot be agreed upon, then an adjustment will be made either for or against the contractor in such amount as the engineer may determine to be fair and equitable.

3. If the alterations or changes in quantities do not significantly change the character of the work to be performed under the contract, the altered work will be paid for as provided elsewhere in the contract.

4. The term “significant change” shall be construed to apply only to the following circumstances:

   - When the character of the work as altered differs materially in kind or nature from that involved or included in the original proposed construction; or

   - When a major item of work, as defined elsewhere in the contract, is increased in excess of 125 percent or decreased below 75 percent of the original contract quantity. Any allowance for an increase in quantity shall apply only to that portion in excess of 125 percent of original contract item quantity, or in case of a decrease below 75 percent, to the actual amount of work performed.

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**SECTION NO. 4 - BEGINNING OF WORK, TIME OF COMPLETION AND LIQUIDATED DAMAGES**

The Contractor shall begin work within 15 calendar days of the date on the Notice to Proceed.
The Contractor shall diligently prosecute the work to completion before the expiration of **ONE HUNDRED THIRTY (130) WORKING DAYS** beginning on the date of the Notice to Proceed.

Should said work not be completed to the satisfaction of the City within said time, The Contractor shall pay to the City of Sacramento a sum of **FOUR THOUSAND FOUR HUNDRED DOLLARS ($4,400)** as liquidated damages for each working day delay in finishing the work and final acceptance of the work by the City.

**SECTION NO. 5 - GENERAL**

**5.1 FEMALE AND MINORITY GOALS**

To comply with Section II, "Nondiscrimination," of "Required Contract Provisions Federal-Aid Construction Contracts," the following are for female and minority utilization goals for Federal-aid construction contracts and subcontracts that exceed $10,000:

The nationwide goal for female utilization is 6.9 percent.

The goals for minority utilization [45 Fed Reg 65984 (10/3/1980)] are as follows:

<table>
<thead>
<tr>
<th>Economic Area</th>
<th>Goal (Percent)</th>
</tr>
</thead>
<tbody>
<tr>
<td>174 Redding CA:</td>
<td>6.8</td>
</tr>
<tr>
<td>Non-SMSA (Standard Metropolitan Statistical Area) Counties:</td>
<td></td>
</tr>
<tr>
<td>CA Lassen; CA Modoc; CA Plumas; CA Shasta; CA Siskiyou; CA Tehama</td>
<td></td>
</tr>
<tr>
<td>175 Eureka, CA</td>
<td>6.6</td>
</tr>
<tr>
<td>Non-SMSA Counties:</td>
<td></td>
</tr>
<tr>
<td>CA Del Norte; CA Humboldt; CA Trinity</td>
<td></td>
</tr>
<tr>
<td>176 San Francisco-Oakland-San Jose, CA:</td>
<td></td>
</tr>
<tr>
<td>SMSA Counties:</td>
<td></td>
</tr>
<tr>
<td>7120 Salinas-Seaside-Monterey, CA</td>
<td>28.9</td>
</tr>
<tr>
<td>CA Monterey</td>
<td></td>
</tr>
<tr>
<td>7500 San Francisco-Oakland</td>
<td></td>
</tr>
<tr>
<td>CA Alameda; CA Contra Costa; CA Marin; CA San Francisco; CA San Mateo</td>
<td></td>
</tr>
<tr>
<td>7400 San Jose, CA</td>
<td></td>
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<tr>
<td>CA Santa Clara, CA</td>
<td></td>
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<tr>
<td>7485 Santa Cruz, CA</td>
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<tr>
<td>CA Santa Cruz</td>
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<tr>
<td>7500 Santa Rosa</td>
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<tr>
<td>CA Sonoma</td>
<td></td>
</tr>
<tr>
<td>8720 Vallejo-Fairfield-Napa, CA</td>
<td></td>
</tr>
<tr>
<td>CA Napa; CA Solano</td>
<td></td>
</tr>
<tr>
<td>Non-SMSA Counties:</td>
<td></td>
</tr>
<tr>
<td>CA Lake; CA Mendocino; CA San Benito</td>
<td></td>
</tr>
<tr>
<td>177 Sacramento, CA:</td>
<td>16.1</td>
</tr>
<tr>
<td>SMSA Counties:</td>
<td></td>
</tr>
<tr>
<td>6920 Sacramento, CA</td>
<td></td>
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<tr>
<td>CA Placer; CA Sacramento; CA Yolo</td>
<td></td>
</tr>
<tr>
<td>Non-SMSA Counties</td>
<td></td>
</tr>
<tr>
<td>CA Butte; CA Colusa; CA El Dorado; CA Glenn; CA Nevada; CA Sierra; CA Sutter; CA Yuba</td>
<td>14.3</td>
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<tr>
<td>178 Stockton-Modesto, CA:</td>
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<tr>
<td>SMSA Counties:</td>
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<td></td>
<td></td>
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<tr>
<td>5170 Modesto, CA</td>
<td>12.3</td>
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<tr>
<td>CA Stanislaus</td>
<td></td>
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<tr>
<td>8120 Stockton, CA</td>
<td>24.5</td>
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<tr>
<td>CA San Joaquin</td>
<td></td>
</tr>
<tr>
<td>Non-SMSA Counties:</td>
<td>19.8</td>
</tr>
<tr>
<td>CA Alpine; CA Amador; CA Calaveras; CA Mariposa; CA Merced; CA Tuolumne</td>
<td></td>
</tr>
</tbody>
</table>

| Fresno-Bakersfield, CA        | 179  |
| SMISA Counties:               |      |
| 0680 Bakersfield, CA          | 19.1 |
| CA Kern                       |      |
| 2840 Fresno, CA               | 26.1 |
| CA Fresno                     |      |
| Non-SMSA Counties:            | 23.6 |
| CA Kings; CA Madera; CA Tulare |      |

| Los Angeles, CA:              | 180  |
| SMISA Counties:               |      |
| 0360 Anaheim-Santa Ana-Garden Grove, CA | 11.9 |
| CA Orange                     |      |
| 4480 Los Angeles-Long Beach, CA | 28.3 |
| CA Los Angeles                |      |
| 6000 Oxnard-Simi Valley-Ventura, CA | 21.5 |
| CA Ventura                    |      |
| 6/780 Riverside-San Bernardino-Ontario, CA | 19.0 |
| CA Riverside; CA San Bernardino |      |
| 7480 Santa Barbara-Santa Maria-Lompoc, CA | 19.7 |
| CA Santa Barbara              |      |
| Non-SMSA Counties:            | 24.6 |
| CA Inyo; CA Mono; CA San Luis Obispo |      |

| San Diego, CA:                | 181  |
| SMISA Counties:               |      |
| 7320 San Diego, CA            | 16.9 |
| CA San Diego                  |      |
| Non-SMSA Counties:            | 18.2 |
| CA Imperial                   |      |

For the last full week July during which work is performed under the contract, you and each non material-supplier subcontractor with a subcontract of $10,000 or more must complete Form FHWA PR-1391 (Appendix C to 23 CFR 230). Submit the forms by August 15.

5.2 NONDISCRIMINATION
Attention is directed to the following Notice that is required by Chapter 5 of Division 4 of Title 2, California Code of Regulations.

**NOTICE OF REQUIREMENT FOR NONDISCRIMINATION PROGRAM (GOV. CODE, SECTION 12990)**

Your attention is called to the "Nondiscrimination Clause", set forth in Section 7-1.02l(2), "Nondiscrimination," of the State Standard Specifications, which is applicable to all nonexempt state contracts and subcontracts, and to the "Standard California Nondiscrimination Construction Contract Specifications" set forth therein. The Specifications are applicable to all nonexempt state construction contracts and subcontracts of $5,000 or more.

5.3 PREVAILING WAGE
Attention is directed to Section 7-1.02K(2), "Wages," of the State Standard Specifications.
The possibility of wage increases is one of the elements to be considered by the Contractor in determining the bid, and will not under any circumstances be considered as the basis of a claim against the City on the contract.

The general prevailing wage rates determined by the Director of Industrial Relations, for the county or counties in which the work is to be done, are available at the City of Sacramento. These wage rates are not included in the Proposal and Contract for the project. Changes, if any, to the general prevailing wage rates will be available at the same location.

Payment of prevailing wage must be documented through submission of certified payroll records for the prime contractor and lower tier subcontractors.

**Electronic Web submittal of Labor Compliance Reports began effective May 1, 2007.**

Each contractor and every lower-tier subcontractor is be required to submit certified payrolls and labor compliance documentation electronically at the discretion of and in the manner specified by the City of Sacramento.

Electronic submittal will be a web-based system, accessed on the World Wide Web by a web browser. Each contractor and subcontractor will be given a Log On identification and password to access the City of Sacramento reporting system.

Use of the system may entail additional data entry of weekly payroll information including: employee identification, labor classification, total hours worked and hours worked on this project, wage and benefit rates paid, etc. The contractor’s payroll and accounting software might be capable of generating a ‘comma delimited file’ that will interface with the software.

This requirement will be ‘flowed down’ to every lower-tier subcontractor and vendor required to provide labor compliance documentation.

**5.4 PUBLIC SAFETY AND CONVENIENCE**

The Contractors attention is directed to Sections 6-6 of the City Standard Specifications. The Contractor shall provide for the safety of traffic and the public in conformance with the provisions in Sections 7-1.03 “Public Convenience and 7-1.04, "Public Safety," of the State Standard Specifications and these special provisions.

The contractor shall submit to the Engineer for review and approval a plan showing traffic control measures for vehicles, pedestrians and bicycles affected by the construction work. Traffic control plans shall be submitted prior to the commencement of any work. For emergency purposes, the responsible person in charge of the work must be reachable by phone 24 hours a day during the progress of the work. A 24-hour phone number shall be indicated on the permit application.

At the end of each working day if a difference in excess of 0.2 foot exists between the elevation of the existing pavement and the elevation of any excavation within 8 feet of the traveled way, material shall be placed and compacted against the vertical cuts adjacent to the traveled way. During excavation operations, native material may be used for this purpose, however, once the placing of the structural section commences, structural material shall be used. The material shall be placed to the level of the elevation of the top of existing pavement and tapered at a slope of
4:1 or flatter to the bottom of the excavation. Full compensation for placing the material on a 4:1 slope, regardless of the number of times it is required, and subsequent removing or reshaping of the material to the lines and grades shown on the plans shall be considered as included in the contract price paid for the material involved and no additional compensation will be allowed therefor. No payment will be made for material placed in excess of that required for the structural section.

Spillage resulting from hauling operations along or across any public traveled way shall be removed immediately by the Contractor at his expense.

Construction operations shall be conducted in such a manner as to cause as little inconvenience as possible to abutting property owners.

Roadway excavation and the construction of embankments shall be conducted in such a manner as to provide a relatively smooth and even surface satisfactory for use by public traffic at all times. Skid resistance steel plates or other approved methods shall be used to cover all open excavations in the roadways and sidewalks at all times during construction.

The Contractor shall install temporary railing (Type K) between a lane open to public traffic and an excavation, obstacle, or storage area when the following conditions exist:

A. Excavations. – The near edge of the excavation is 12 feet or less from the edge of the lane, except:
   1. Excavations covered with sheet steel or concrete covers of adequate thickness to prevent accidental entry by traffic or the public.
   2. Excavations less than 1 foot deep.
   3. Trenches less than 1 foot wide for irrigation pipe or electrical conduit, or excavations less than 1 foot in diameter.
   4. Excavations parallel to the lane for the purpose of pavement widening or reconstruction.
   5. Excavations in side slopes, where the slope is steeper than 1:4 (vertical: horizontal).
   6. Excavations protected by existing barrier or railing.

B. Temporarily Unprotected Permanent Obstacles. – The work includes the installation of a fixed obstacle together with a protective system, such as a sign structure together with protective railing, and the Contractor elects to install the obstacle prior to installing the protective system; or the Contractor, for the Contractor's convenience and with permission of the Engineer, removes a portion of an existing protective railing at an obstacle and does not replace such railing complete in place during the same day.

C. Storage Areas. – Material or equipment is stored within 12 feet of the lane and the storage is not otherwise prohibited by the provisions of the Standard Specifications and these special provisions.

The approach end of temporary railing (Type K), installed in conformance with the provisions in this section "Public Safety and Convenience" and in Section 7-1.04, "Public Safety," of the State Standard Specifications, shall be offset a minimum of 15 feet from the edge of the traffic lane open
to public traffic. The temporary railing shall be installed on a skew toward the edge of the traffic lane of not more than 1 foot transversely to 10 feet longitudinally with respect to the edge of the traffic lane. If the 15 feet minimum offset cannot be achieved, the temporary railing shall be installed on the 10 to 1 skew to obtain the maximum available offset between the approach end of the railing and the edge of the traffic lane, and an array of temporary crash cushion modules shall be installed at the approach end of the temporary railing.

Temporary railing (Type K) shall conform to the provisions in Section 12-3.08, "Type K Temporary Railing," of the State Standard Specifications. Temporary railing (Type K), conforming to the details shown on 2010 State Standard Plans T3A and T3B, may be used. Temporary railing (Type K) fabricated prior to January 1, 1993, and conforming to 1988 Standard Plan B11-30 may be used, provided the fabrication date is printed on the required Certificate of Compliance.

Temporary crash cushion modules shall conform to the provisions in Section 12-3.15, "Temporary Crash Cushion Module," of the State Standard Specifications.

When traffic cones or delineators are used to delineate a temporary edge of a traffic lane, the line of cones or delineators shall be considered to be the edge of the traffic lane, however, the Contractor shall not reduce the width of an existing lane to less than 12 feet without written approval from the Engineer.

When work is not in progress on a trench or other excavation that required closure of an adjacent lane, the traffic cones or portable delineators used for the lane closure shall be placed off of and adjacent to the edge of the traveled way. The spacing of the cones or delineators shall be not more than the spacing used for the lane closure.

Suspended loads or equipment shall not be moved nor positioned over public traffic or pedestrians.

Full compensation for conforming to the provisions in this section "Public Safety," including furnishing and installing temporary railing (Type K) and temporary crash cushion modules, shall be considered as included in the contract prices paid for the various items of work involved and no additional compensation will be allowed therefor.

5.5 BUY AMERICA REQUIREMENTS

Furnish steel and iron materials to be incorporated into the work with certificates of compliance. Steel and iron materials must be produced in the U.S. except:

1. Foreign pig iron and processed, pelletized, and reduced iron ore may be used in the domestic production of the steel and iron materials [60 Fed Reg 15478 (03/24/1995)];

2. If the total combined cost of the materials does not exceed the greater of 0.1 percent of the total bid or $2,500, materials produced outside the U.S. may be used.

Production includes:
1. Processing steel and iron materials, including smelting or other processes that alter the physical form or shape (such as rolling, extruding, machining, bending, grinding, and drilling) or chemical composition;

2. Coating application, including epoxy coating, galvanizing, and painting, that protects or enhances the value of steel and iron materials.

5.6 QUALITY ASSURANCE
The Agency uses a Quality Assurance Program (QAP) to ensure a material is produced to comply with the Contract.

The Contractor may examine the records and reports of tests that Agency performs if they are available at the job site.

The Contractor shall schedule his/her work to allow time for QAP.

5.7 REMOVAL OF ASBESTOS AND HAZARDOUS SUBSTANCES
When the presence of asbestos or hazardous substances are not shown on the plans or indicated in the specifications and the Contractor encounters materials which the Contractor reasonably believes to be asbestos or a hazardous substance as defined in Section 25914.1 of the Health and Safety Code, and the asbestos or hazardous substance has not been rendered harmless, the Contractor may continue work in unaffected areas reasonably believed to be safe. The Contractor shall immediately cease work in the affected area and report the condition to the Engineer in writing.

In conformance with Section 25914.1 of the Health and Safety Code, removal of asbestos or hazardous substances including exploratory work to identify and determine the extent of the asbestos or hazardous substance will be performed by separate contract.

If delay of work in the area delays the current controlling operation, the delay will be considered a right of way delay and the Contractor will be compensated for the delay in conformance with the provisions in Section 8-1.07, "Delays," of the State Standard Specifications.

5.8 SUBCONTRACTOR AND DBE RECORDS
Use each DBE subcontractor as listed on the List of Subcontractors form and the Local Agency Bidder DBE Commitment (Construction Contracts), Exhibit 15-G, forms unless you receive authorization for a substitution.

The Agency requests the Contractor to:

1. Notify the Engineer of any changes to its anticipated DBE participation
2. Provide this notification before starting the affected work

Maintain records including:

1. Name and business address of each 1st-tier subcontractor
2. Name and business address of each DBE subcontractor, DBE vendor, and DBE trucking company, regardless of tier
3. Date of payment and total amount paid to each business

If you are a DBE contractor, include the date of work performed by your own forces and the corresponding value of the work.

Before the 15th of each month, submit a Monthly DBE Trucking Verification form.

If a DBE is decertified before completing its work, the DBE must notify you in writing of the decertification date. If a business becomes a certified DBE before completing its work, the business must notify you in writing of the certification date. Submit the notifications. On work completion, complete a Disadvantaged Business Enterprises (DBE) Certification Status Change, Exhibit 17-O, form. Submit the form within 30 days of contract acceptance.

Upon work completion, complete a Final Report – Utilization of Disadvantaged Business Enterprises (DBE), First-Tier Subcontractors, Exhibit 17-F, form. Submit it within 90 days of contract acceptance. The Agency withholds $10,000 until the form is submitted. The Agency releases the withhold upon submission of the completed form.

5.9 SUBCONTRACTING
No subcontract releases the Contractor from the contract or relieves the Contractor of their responsibility for a subcontractor's work.

If the Contractor violates Pub Cont Code § 4100 et seq., the City of Sacramento may exercise the remedies provided under Pub Cont Code § 4110. The City of Sacramento may refer the violation to the Contractors State License Board as provided under Pub Cont Code § 4111.

The Contractor shall perform work equaling at least 30 percent of the value of the original total bid with the Contractor’s own employees and equipment, owned or rented, with or without operators.

Each subcontract must comply with the contract.

Each subcontractor must have an active and valid State contractor's license with a classification appropriate for the work to be performed (Bus & Prof Code, § 7000 et seq.).

Submit copies of subcontracts upon request by the Engineer.

Before subcontracted work starts, submit a Subcontracting Request form.

Do not use a debarred contractor; a current list of debarred contractors is available at the Department of Industrial Relations' Web site.

Upon request by the Engineer, immediately remove and not again use a subcontractor who fails to prosecute the work satisfactorily.
Each subcontract and any lower tier subcontract that may in turn be made shall include the "Required Contract Provisions Federal-Aid Construction Contracts" in Section 12 of these special provisions. Noncompliance shall be corrected. Payment for subcontracted work involved will be withheld from progress payments due, or to become due, until correction is made. Failure to comply may result in termination of the contract.

5.10 PROMPT PROGRESS PAYMENT TO SUBCONTRACTORS

A prime contractor or subcontractor shall pay any subcontractor not later than 10 days of receipt of each progress payment in accordance with the provision in Section 7108.5 of the California Business and Professions Code concerning prompt payment to subcontractors. The 10 days is applicable unless a longer period is agreed to in writing. Any delay or postponement of payment over 30 days may take place only for good cause and with the agency’s prior written approval. Any violation of Section 7108.5 shall subject the violating contractor or subcontractor to the penalties, sanction and other remedies of that section. This requirement shall not be construed to limit or impair any contractual, administrative, or judicial remedies otherwise available to the contractor or subcontractor in the event of a dispute involving late payment or nonpayment by the prime contractor, deficient subcontract performance, or noncompliance by a subcontractor. This provision applies to both DBE and non-DBE subcontractors.

5.11 PROMPT PAYMENT OF FUNDS WITHHELD TO SUBCONTRACTORS

The agency shall hold retainage from the prime contractor and shall make prompt and regular incremental acceptances of portions, as determined by the agency, of the contract work, and pay retainage to the prime contractor based on these acceptances. The prime contractor, or subcontractor, shall return all monies withheld in retention from a subcontractor within 30 days after receiving payment for work satisfactorily completed and accepted including incremental acceptances of portions of the contract work by the agency. Federal law (49CFR26.29) requires that any delay or postponement of payment over 30 days may take place only for good cause and with the agency’s prior written approval. Any violation of this provision shall subject the violating prime contractor or subcontractor to the penalties, sanctions and other remedies specified in Section 7108.5 of the Business and Professions Code. These requirements shall not be construed to limit or impair any contractual, administrative, or judicial remedies otherwise available to the prime contractor or subcontractor in the event of a dispute involving late payment or nonpayment by the prime contractor, deficient subcontract performance, or noncompliance by a subcontractor.

5.12 PAYMENTS

Attention is directed to Section 8, “Measurement and Payment” of the City Standard Specifications and these special provisions.

After acceptance of the contract pursuant to the provisions in Section 8 of the City Standard Specifications, the amount, if any, payable for a contract item of work in excess of the maximum value for progress payment purposes herein above listed for the item, will be included for payment in the first estimate made after acceptance of the contract.
No partial payment will be made for any materials on hand which are furnished but not incorporated in the work.

5.13 FEDERAL TRAINEE PROGRAM
For the Federal training program, the number of trainees or apprentices is 10
This section applies if a number of trainees or apprentices is specified in the special provisions.
As part of your equal opportunity affirmative action program, provide on-the-job training to develop full journeymen in the types of trades or job classifications involved.
You have primary responsibility for meeting this training requirement.
If you subcontract a contract part, determine how many trainees or apprentices are to be trained by the subcontractor.
Include these training requirements in your subcontract.
Where feasible, 25 percent of apprentices or trainees in each occupation must be in their 1st year of apprenticeship or training.
Distribute the number of apprentices or trainees among the work classifications on the basis of your needs and the availability of journeymen in the various classifications within a reasonable recruitment area.
Before starting work, submit to the City of Sacramento:
1. Number of apprentices or trainees to be trained for each classification
2. Training program to be used
3. Training starting date for each classification
Obtain the City of Sacramento’s approval for this submitted information before you start work. The City of Sacramento credits you for each apprentice or trainee you employ on the work who is currently enrolled or becomes enrolled in an approved program.
The primary objective of this section is to train and upgrade minorities and women toward journeymen status. Make every effort to enroll minority and women apprentices or trainees, such as conducting systematic and direct recruitment through public and private sources likely to yield minority and women apprentices or trainees, to the extent they are available within a reasonable recruitment area. Show that you have made the efforts. In making these efforts, do not discriminate against any applicant for training.
Do not employ as an apprentice or trainee an employee:
1. In any classification in which the employee has successfully completed a training course leading to journeyman status or in which the employee has been employed as a journeyman
2. Who is not registered in a program approved by the US Department of Labor, Bureau of Apprenticeship and Training
Ask the employee if the employee has successfully completed a training course leading to journeyman status or has been employed as a journeyman. Your records must show the employee's answers to the questions.
In your training program, establish the minimum length and training type for each classification. The City of Sacramento and FHWA approves a program if one of the following is met:

1. It is calculated to:
   - Meet the your equal employment opportunity responsibilities
   - Qualify the average apprentice or trainee for journeyman status in the classification involved by the end of the training period
2. It is registered with the U.S. Department of Labor, Bureau of Apprenticeship and Training, and it is administered in a way consistent with the equal employment responsibilities of Federal-aid highway construction contracts

Obtain the State's approval for your training program before you start work involving the classification covered by the program.

Provide training in the construction crafts, not in clerk-typist or secretarial-type positions. Training is allowed in lower level management positions such as office engineers, estimators, and timekeepers if the training is oriented toward construction applications. Training is allowed in the laborer classification if significant and meaningful training is provided and approved by the division office. Off-site training is allowed if the training is an integral part of an approved training program and does not make up a significant part of the overall training.

The City of Sacramento reimburses you 80 cents per hour of training given an employee on this contract under an approved training program:

1. For on-site training
2. For off-site training if the apprentice or trainee is currently employed on a Federal-aid project and you do at least one of the following:
   - Contribute to the cost of the training
   - Provide the instruction to the apprentice or trainee
   - Pay the apprentice's or trainee's wages during the off-site training period
3. If you comply this section.

Each apprentice or trainee must:

1. Begin training on the project as soon as feasible after the start of work involving the apprentice's or trainee's skill
2. Remain on the project as long as training opportunities exist in the apprentice's or trainee's work classification or until the apprentice or trainee has completed the training program

Furnish the apprentice or trainee:

1. Copy of the program you will comply with in providing the training
2. Certification showing the type and length of training satisfactorily completed

5.14 TITLE VI ASSURANCES

During the performance of this Agreement, the contractor, for itself, its assignees and successors in interest (hereinafter collectively referred to as CONTRACTOR) agrees as follows:

(1) Compliance with Regulations: CONTRACTOR shall comply with the regulations relative to nondiscrimination in federally assisted programs of the Department of
(2) **Nondiscrimination:** CONTRACTOR, with regard to the work performed by it during the AGREEMENT, shall not discriminate on the grounds of race, color, sex, national origin, religion, age, or disability in the selection and retention of sub-applicants, including procurements of materials and leases of equipment. CONTRACTOR shall not participate either directly or indirectly in the discrimination prohibited by Section 21.5 of the Regulations, including employment practices when the agreement covers a program set forth in Appendix B of the Regulations.

(3) **Solicitations for Sub-agreements, Including Procurements of Materials and Equipment:** In all solicitations either by competitive bidding or negotiation made by CONTRACTOR for work to be performed under a Sub-agreement, including procurements of materials or leases of equipment, each potential sub-applicant or supplier shall be notified by CONTRACTOR of the CONTRACTOR’S obligations under this Agreement and the Regulations relative to nondiscrimination on the grounds of race, color, or national origin.

(4) **Information and Reports:** CONTRACTOR shall provide all information and reports required by the Regulations, or directives issued pursuant thereto, and shall permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the California Department of Transportation or FHWA to be pertinent to ascertain compliance with such Regulations or directives. Where any information required of CONTRACTOR is in the exclusive possession of another who fails or refuses to furnish this information, CONTRACTOR shall so certify to the California Department of Transportation or the FHWA as appropriate, and shall set forth what efforts CONTRACTOR has made to obtain the information.

(5) **Sanctions for Noncompliance:** In the event of CONTRACTOR’s noncompliance with the nondiscrimination provisions of this agreement, the California Department of Transportation shall impose such agreement sanctions as it or the FHWA may determine to be appropriate, including, but not limited to:

(a) withholding of payments to CONTRACTOR under the Agreement within a reasonable period of time, not to exceed 90 days; and/or

(b) cancellation, termination or suspension of the Agreement, in whole or in part.

(6) **Incorporation of Provisions:** CONTRACTOR shall include the provisions of paragraphs (1) through (6) in every sub-agreement, including procurements of materials and leases of equipment, unless exempt by the Regulations, or directives issued pursuant thereto.

CONTRACTOR shall take such action with respect to any sub-agreement or procurement as the California Department of Transportation or FHWA may direct as a means of enforcing such provisions including sanctions for noncompliance, provided, however, that, in the event CONTRACTOR becomes involved in, or is threatened with, litigation with a sub-applicant or supplier as a result of such direction, CONTRACTOR may request the California Department of Transportation enter into such litigation to protect the interests of the State, and, in addition, CONTRACTOR may request the United States to enter into such litigation to protect the interests of the United States.
5.15 USE OF UNITED STATES-FLAG VESSELS
The CONTRACTOR agrees-

1. To utilize privately owned United States-flag commercial vessels to ship at least 50 percent of the gross tonnage (computed separately for dry bulk carries, dry cargo liners, and tankers) involved, whenever shipping any equipment, material, or commodities pursuant to this contract, to the extent such vessels are available at fair and reasonable rates for United States-flag commercial vessels.

2. To Furnish within 20 days following the date of loading for shipments originating within the United State or within 30 working days following the date of loading for shipments originating outside the United States, a legible copy of a rated “on-board” commercial ocean bill-of-lading in English for each shipment of cargo described in paragraph (1) of this section to both the Contracting Officer (through the prime contractor in the case of subcontractor bills-of-lading) and to the Division of National Cargo, Office of Market Development, Maritime Administration, Washington, DC 20590.

3. To insert the substance of the provisions of this clause in all subcontracts issued pursuant to this contract.

SECTION NO. 6 - (BLANK)

SECTION NO. 7 - WORKER’S COMPENSATION AND INSURANCE

7.1 WORKER’S COMPENSATION
Full Worker's Compensation Insurance and Employer's Liability policy or provide evidence of ability to undertake self-insurance. Limits of coverage shall be at least $1,000,000 for any one person. In the event Contractor is self-insured, he shall furnish a Certificate of Permission to Self-Insure by the Department of Industrial Relations Administration of Self-Insurance, Sacramento.

7.2 COMPREHENSIVE AUTO AND GENERAL LIABILITY INSURANCE
Contractor must provide sufficient broad coverage to include:

- Comprehensive Auto and General Liability Insurance
- Products and Completed Operation Liability
- Broad Form Property Damage Liability
- Contractual Liability
- Personal Injury Liability

The amount of the policy shall be no less than $1,000,000 Single Limit per occurrence, insured by an admitted insurer or insurers as defined by the California Insurance Code, providing that the City
of Sacramento, its officers, employees and agents are to be Named Insured under the policy, and the policy shall stipulate that this insurance will operate as Primary insurance and that no other insurance effected by City or other named Insured will be called on to contribute to a loss covered thereunder.

7.3 CERTIFICATE OF INSURANCE
Contractor shall have City's standard Certificate of Insurance completed and filed with the Department of Public Works prior to the execution of the execution of this Agreement. Said policies shall provide that no cancellation, major change in coverage, or expiration may be effected by the insurance company or the insured during the term of this Agreement, without first giving to City thirty (30) calendar days written notice prior to the effective date of such cancellation or change in coverage.

7.4 WORKER'S COMPENSATION CERTIFICATE
Contractor shall have this certification completed and filed with the Department of Public Works prior to the execution of the Agreement.

"I am aware of the provisions of Section 3700 of the Labor Code which require every employer to be insured against liability for worker's compensation or to undertake self-insurance in accordance with the provisions of the Code, and I will comply with such provisions before commencing the performance of the work of this Contract."

7.5 FAILURE TO MAINTAIN INSURANCE
If at any time during the performance of this Contract the Contractor fails to maintain any item of the required insurance in full force and effect, Contractor shall immediately discontinue all work under the Contract and City will withhold all Contract payments due or that become due until notice is received by City that such insurance has been restored in full force and effect and that the premiums therefore have been paid for a period satisfactory to the Division of Risk Management of the City of Sacramento.

Any failure to maintain any item of the required insurance will be sufficient cause for termination of the Contract.

SECTION NO. 8 - MATERIALS (BLANK)

SECTION NO. 9 - GENERAL REQUIREMENTS

9.1 ORDER OF WORK
Order of work shall conform to the provisions in Section 5-1.05 "Order of Work," of the State Standard Specifications and these special provisions.
At the end of each working day if a difference in excess of 0.2 foot exists between the elevation of the existing pavement and the elevation of any excavation within 8 feet of the traveled way, material shall be placed and compacted against the vertical cuts adjacent to the traveled way. During excavation operations, native material may be used for this purpose, however, once the placing of the structural section commences, structural material shall be used. The material shall be placed to the level of the elevation of the top of existing pavement and tapered at a slope of 4:1 or flatter to the bottom of the excavation. Full compensation for placing the material on a 4:1 slope, regardless of the number of times it is required, and subsequent removing or reshaping of the material to the lines and grades shown on the plans shall be considered as included in the contract price paid for the material involved and no additional compensation will be allowed therefor. No payment will be made for material placed in excess of that required for the structural section.

In the direction of the travel way, the material shall be placed to the level of the elevation of the top of existing pavement and tapered at a slope of 10% maximum or flatter to the bottom of the elevation.

Full compensation for conforming to the provisions in this section "Order of Work," including portable changeable message signs, and submittals and revisions of traffic handling, and detour plans shall be considered as included in the contract prices paid for Traffic Control System and no additional compensation will be allowed therefor.

9.2 COMPLETION TIME

The time limit for the completion of all items of work is One Hundred Thirty (130) Working days, commencing on the date set forth in the written Notice to Proceed issued by the City to the Contractor. The Contractor shall pay a sum in the amount of FOUR THOUSAND FOUR DOLLARS ($4,400.00) as liquidated damages, and not as a penalty, for each working day delay after the expiration of One Hundred Thirty (130) working days.

The Engineer will furnish the Contractor a weekly statement showing the number of working days charged to the contract for the preceding week and the number of working days charged to date. The Contractor will be allowed fifteen (15) calendar days in which to file a written protest setting forth in what respect the Contractor disagrees with the working day statement, otherwise the working day statement of the Engineer shall be deemed to have been accepted by the Contractor as correct.

9.3 TIME OF AWARD

Section 3-2, “Time of Award,” of the Standard Specifications is hereby amended for this project. Time of Award for this contract shall be made within Sixty (60) calendar days after opening of the proposals to the lowest responsible bidder.
9.4 PROVIDING BONDS AND SURETY

The Contractor shall provide signed agreement and surety bonds within ten (10) calendar days after receipt of notice to award by the City and prior to award by the City Council. The Contractor shall be reimbursed for all surety bond costs should the City Council not award a contract.

9.5 PRE-BID INTERPRETATION OF CONTRACT DOCUMENTS

No oral representations or interpretation will be made to any bidder as to the meaning of the contract documents. Requests for interpretation shall be made in writing and delivered to the City at least seven (7) calendar days before the time announced for opening the proposals. Interpretation, where necessary, will be made by the City in the form of an addendum to the contract documents and, when issued, will be sent as promptly as is practicable to all parties to whom the bid documents have been issued. All such addenda shall become part of the contract. Requests for information regarding this procedure or other similar information, shall be directed to Zuhair Amawi of the Department of Public Works, Engineering Services Division, 915 I Street, Room 2000, Sacramento, CA 95814, (916) 808-7620, FAX (916) 808-7903 or zamawi@cityofsacramento.org.

It shall also be the bidder's responsibility to call to the attention of the Engineer any missing pages or drawings in the contract documents including the addenda. These items shall be brought to the attention of the Engineer immediately but at least two (2) weeks prior to the bid opening date.

9.7 CERTIFICATE OF COMPLIANCE

The Contractor shall provide the Engineer with a manufacturer's "Certificate of Compliance" at the Engineer's request within two weeks. The Certificate of Compliance shall clearly show that the material, equipment and/or work is in compliance with the tests and specifications set forth in these contract documents.

9.8 FINAL PAY QUANTITY

Final pay quantity is designated on the sealed bid proposal sheet with a "(F)". Final pay quantity shall conform to Section 9-1.015 “Final Pay Items” of the State Standard Specifications, except that the final pay quantity designation shall be made on the sealed bid proposal rather than the Plans.

9.9 EQUIPMENT TO BE SUPPLIED

All equipment, material and supplies called for in the Special Provisions shall be new and currently manufactured items, unless otherwise specified. All equipment shall be complete and in operation to the satisfaction of the Engineer at the time of acceptance of the work.
All incidental parts which are not shown on the Plans or specified herein and which are necessary to complete the project shall be furnished and installed as though such parts were shown on the Plans or specified herein.

All equipment, materials, and supplies to be considered as an approved equal must be submitted to the City for approval no less than seven (7) calendar days prior to the bid opening date. If the Engineer finds said equipment, materials, and supplies to be acceptable, an addendum will be issued notifying all bidders no less than two calendar days prior to the bid opening date.

9.10 HANDLING AND REMOVAL OF HAZARDOUS OR CONTAMINATED MATERIALS

In the event hazardous or contaminated materials are encountered at the site for which separate handling or removal provisions have not been made in these Special Provisions, the Contractor shall stop work on that item, contact the Engineer and schedule his operations to work elsewhere on the site if possible. The City will be responsible for handling and removal of hazardous material or may request that the Contractor shall be available, through contract change order, to provide additional services as needed for the completion of the work. Additional services may consist of retaining a subcontractor who possesses a California license for hazardous substance removal and remedial actions.

Hazardous or contaminated materials may only be removed and disposed of from the project site in accordance with the following provisions:

1. All work is to be completed in accordance with the following regulations and requirements:


2. Coordination shall be made with the County of Sacramento Environmental Management Department, Hazardous Materials Division, and the necessary applications shall be filed.

3. All hazardous materials shall be disposed of at an approved disposal site and shall only be hauled by a current California registered hazardous waste hauler using correct manifesting procedures and vehicles displaying a current Certificate of Compliance. The Contractor shall identify by name and address the site where toxic substances shall be disposed of. No payment for removal and disposal services shall be made without a valid certificate from the approved disposal site that the material was delivered.

None of the aforementioned provisions shall be construed to relieve the Contractor from the Contractor's responsibility for the health and safety of all persons (including employees) and from
the protection of property during the performance of the work. This requirement shall be applied continuously and not be limited to normal working hours.

9.11 COORDINATION
The Contractor shall coordinate his activities in a manner that will provide the least interference with the City's operations, other contractors and utility companies working in the area, and agencies exercising jurisdiction over the project area or portions thereof.

The Contractor shall notify businesses a minimum of 10 working days prior to impacting their driveway or business entrance. The Contractor is required to hold weekly construction meetings with the agencies, utility companies and property owners on Meadowview Road to update them on the construction schedule and construction operations. The meeting location will be decided in coordination with the agencies and property owners along Meadowview Road.

1. At a minimum the Contractor shall coordinate his operations with the following:

   - **City Solid Waste Division**
     Contractor shall notify Contact Enrique Hernandez, General Supervisor (916) 808-4803 or Jerome Council, General Supervisor (916) 808-4841 for garbage pickup coordination a minimum of five (5) working days prior to beginning work at each location.

   - **City Parking Division**
     Mike King, Parking Technology & Infrastructure Manager (916) 808-1172, and Sharon Cramer at (916)-808-7586

   - **City Traffic Signal and Street Lighting Maintenance Shop**
     Contractor shall notify Brad Stevenson, via the Resident Engineer, a minimum of five (5) working days before any electrical work begins at (916) 808-6635.

   - **City Fire Alarm**
     Contractor shall notify Doug Crawford, at (916) 798-0673, a minimum of five (5) working days prior to beginning work at each location.

   - **Underground Service Alert**
     Contractor shall contact Underground Service Alert (USA) at 1-800-227-2600, a minimum of three (3) working days prior to any excavation.

2. **Sacramento Municipal Utility District (SMUD)**
   Contractor shall contact Ethan Halbert, SMUD, at (916) 732-7340 at least 2 months before service hook-up is required, before service disconnect is required, before pole quadrants for risers need to be marked, before any poles need to be stood by SMUD, or before any overhead line heights need to be measured.

3. **AT&T**
   Contractor shall contact Astrid Willard at (916) 484-2388 forty-eight hours (48) before service hook-up is required, before service disconnect is required, before pole quadrants for risers
need to be marked, before any poles need to be stood by Pacific Bell, or before any overhead line heights need to be measured.

4. **Pacific Gas and Electric (PG&E)**
   Contractor shall contact David Allen, Senior Field Engineer Technician for PG&E, at (916) 386-5277, and Larry Schlaht at (916) 386-5371 at least 7 calendar days before start of construction.

5. **Consolidated**
   Contractor shall contact Jeff Hodsdon at (916) 786-1653 and Larry Montgomery at (916) 231-1286 at least 10 working days before the start of construction.

6. **Comcast**
   Contractor shall contact Steve Abelia at (916) 830-6757 at least 10 working days before the start of construction.

7. **Verizon/MCI**
   Contractor shall contact Rebecca Daniels at (925) 766-6392 at least 10 working days before the start of construction.

8. **Regional Transit (RT)**
   At least three (3) working days prior to working on Meadowview Road, the Contractor shall contact the Regional Transit (RT) Dispatcher at (916) 321-2897 and notify RT that traffic restrictions will be in effect and that bus stops may be temporarily out of service.

9. **Job Corps**
   Sixty (60) days prior to commencement of work on Job Corps site, the Contractor shall contact the JCC coordinator Bobby Brown at (916) 394-4309 or Rosa Guillen at (916) 394-4304. Contractor shall coordinate with JCC coordinator to obtain access to the Job Corps site.

The Contractor shall be responsible for any garden refuse piles, which are inadvertently placed in the street between the time of City pickup and the Contractor's work. The cost for removing garden refuse piles shall be included in the unit prices bid for the various items of the proposal.

The Contractor shall be responsible for coordinating with various utility companies for relocation of any utility poles, lines, adjusting utilities to grade or underground work. The cost of coordination shall be included in the unit prices bid for the various items of the proposal and no additional compensation will be allowed therefor.

### 9.12 PROJECT SCHEDULING
SUMMARY

The Contractor shall Comply with Section 8-1.04, "Progress Schedule," of the State Standard Specifications except you must use computer software to prepare the schedule. You are responsible for assuring that all activity sequences are logical and that each schedule shows a coordinated plan for complete performance of the work.

DEFINITIONS

**contract completion date:** Current extended date for completion of the contract shown on the Weekly Statement of Working Days furnished by the Engineer as specified in Section 8-1.06, "Time of Completion," of the State Standard Specifications.

**data date:** Day after the date through which a schedule is current. Everything occurring earlier than the data date is as-built and everything on or after the data date is planned.

**float:** Difference between the earliest and latest allowable start or finish times for an activity.

**milestone:** Event activity that has zero duration and is typically used to represent the beginning or end of a certain stage of the project.

**near critical path:** Chain of activities with total float exceeding that of the critical path but having no more than 10 working days of total float.

**time-scaled network diagram:** Graphic depiction of a CPM schedule comprised of activity bars with relationships for each activity represented by arrows. The tail of each arrow connects to the activity bar for the predecessor and points to the successor.

**total float:** Amount of time that an activity or chain of activities can be delayed before extending the scheduled completion date.

GENERAL REQUIREMENTS

Submit baseline, monthly updated, and final updated schedules, each consistent in all respects with the time and order of work requirements of the contract. Perform work in the sequence indicated on the current accepted schedule.

Each schedule must show:

1. Calculations using critical path method to determine controlling activities.
2. Duration activities less than 20 working days.
3. Each required constraint. Constraints other than those required by the special provisions may be included only if authorized.

The Engineer's review and acceptance of schedules does not waive any contract requirements and does not relieve you of any obligation or responsibility for submitting complete and accurate information. Correct rejected schedules and resubmit them within 7 days of notification by the Engineer, at which time a new review period of 7 days will begin.

Errors or omissions on schedules do not relieve you from finishing all work within the time limit specified for completion of the contract. If, after a schedule has been accepted by the Engineer, either you or the Engineer discover that any aspect of the schedule has an error or omission, you must correct it on the next updated schedule.

COMPUTER SOFTWARE

Submit a description of your proposed schedule software for authorization. All software must be compatible with the current version of the Windows operating system in use by the Engineer. The schedule software must include the latest version of Microsoft Project or equivalent.
NETWORK DIAGRAMS, REPORTS, AND DATA
Include the following with each schedule submittal:

1. 2 sets of originally plotted, time-scaled network diagrams

The time-scaled network diagrams must conform to the following:

1. Show a continuous flow of information from left to right
2. Be based on early start and early finish dates of activities
3. Clearly show the critical path using graphical presentation
4. Be prepared on 11" x 17" or larger size
5. Include a title block and a timeline on each page

BASELINE SCHEDULE
Submit a baseline schedule within 20 days of approval of the contract. Allow 20 days for the Engineer's review after the baseline schedule and all support data are submitted. Beginning the week the baseline schedule is first submitted, meet with the Engineer weekly to discuss and resolve schedule issues until the baseline schedule is accepted. The baseline schedule must include the entire scope of work and must show how you plan to complete all work contemplated. Multiple critical paths and near-critical paths must be kept to a minimum. A total of not more than 50 percent of the baseline schedule activities must be critical or near critical unless otherwise authorized by the Engineer. The baseline schedule must not extend beyond the number of working days originally provided in these special provisions.

UPDATED SCHEDULE
Submit an updated schedule and meet with the Engineer to review contract progress on or before the 1st day of each month, beginning 1 month after the baseline schedule is accepted. Allow 15 days for the Engineer's review after the updated schedule and all support data are submitted except that the review period will not start until any previous month's required schedule is accepted. Updated schedules that are not accepted or rejected within the review period are considered accepted by the Engineer. The updated schedule must show:

1. Data date of the 21st day of the month or other date established by the Engineer
2. Changes from approved revised schedules

FINAL UPDATED SCHEDULE
Submit a final updated schedule with actual start and finish dates for the activities within 30 days after completion of contract work. Provide a written certificate with this submittal signed by your project manager or an officer of the company stating, "To my knowledge and belief, the enclosed final updated schedule reflects the actual start and finish dates of the actual activities for the project contained herein." An officer of the company may delegate in writing the authority to sign the certificate to a responsible manager.
PAYMENT

Full compensation for preparing, furnishing, and updating schedules is considered as included in the contract prices paid for the various items of work involved and no additional compensation will be allowed.

9.15 PROTECTION OF EXISTING IMPROVEMENTS

The location, alignment, and depth of existing underground utilities as shown on the Plans are taken from public records and no responsibility is assumed for their accuracy.

The Contractor's attention is directed to the provisions of Chapter 3.1 "PROTECTION OF PUBLIC UTILITIES IN PUBLIC CONTRACTS" of the California Government Code concerning protecting existing overhead and underground utilities. In particular, Section 4216 and Section 4217.

Existing improvements, utilities and adjacent property shall be protected from damage resulting from the Contractor's operations. All trees, shrubbery, grass, fences, mail boxes, walls and other improvements including existing pavements, sidewalks, street improvements, sprinkler systems and underground utilities and other improvements not to be removed under this contract shall be protected from damage by the Contractor throughout the construction period.

All painted or other disfiguring markings on the pavement, sidewalk or gutters shall be removed by the Contractor before acceptance of the work.

The Contractor will insure that utility services to customers in the project are maintained.

The Contractor is responsible for the protection of and for damage to existing overhead and underground utility lines and services encountered during the course of construction. The Contractor shall notify the respective utility owner prior to any interruption of service.

The Contractor is expected to "pothole" existing underground utilities a minimum of ten (10) working days in advance at any location where an existing utility may be in conflict with the proposed work. Potholing must be completed and analyzed for potential conflicts before ordering drainage structures.

The cost of relocating existing overhead or underground utilities not specified on Plans to be relocated, but which the Contractor elects to relocate or cut and reconnect for his/her own convenience, shall be borne by the Contractor.

No compensation will be paid to the Contractor for the maintenance and protection of existing utilities and facilities. The cost of such work shall be included in whatever bid item the Contractor deems appropriate.
9.16 TRAFFIC HANDLING AND CONVENIENCE

The contractor’s attention is directed to Sections 6 and 7 of the Standard Specifications.

The contractor shall submit to the Engineer for review and approval a traffic control and detour plan showing traffic control measures for vehicles, pedestrians and bicycles affected by the construction work. For emergency purposes, the responsible person in charge of the work must be reachable by phone 24 hours a day during the progress of the work. A 24-hour phone number shall be indicated on the permit application.

The contractor shall adhere to guidelines as stated in Section 12.20.030 of Title 12 of the Sacramento City Code pertaining to Traffic Control Plan – Requirements, and shall conform to the current edition of the California MUTCD. Particular attention is directed to Chapter 6D – Pedestrian and Worker Safety and Chapter 6F – Temporary Traffic Control Zone Devices, Section 6F.68 – Detectable Edging for Pedestrians.

Spillage resulting from hauling operations along or across any public traveled way shall be removed immediately by the Contractor at his expense.

Construction operations shall be conducted in such a manner as to cause as little inconvenience as possible to abutting property owners.

Roadway excavation and the construction of embankments shall be conducted in such a manner as to provide a relatively smooth and even surface satisfactory for use by public traffic at all times. Skid resistance steel plates or other approved methods shall be used to cover all open excavations in the roadways and sidewalks at all times during construction.

The traffic control and detour plans shall be developed with the following requirements:

1. Working hours shall be between 8:30 AM and 4:00 PM Monday through Friday, unless otherwise approved by the Engineer.

2. Weekend work between from 7:00 AM to 6:00 PM may be approved by the Engineer.

3. The Contractor shall submit for approval, a written request to perform weekend work a minimum of two (2) weeks prior to the weekend dates. If weekend work is approved, the cost of inspection shall be borne by the City.

4. The Contractor shall furnish, install temporary stripes and maintain temporary construction warning signs, lighting, flaggers, barricades, striping and other devices necessary to safeguard the general public and the work, and to provide for the safe and proper routing of all vehicular and of pedestrian traffic within and through the limits of the projects during the construction. The requirement shall apply continuously and shall not be limited to normal working hours.

5. The Contractor shall maintain existing electrical facilities and traffic and public safety in accordance with Section 34 of the Standard Specifications and these Special Provisions.
6. Except as specified elsewhere in these Special Provisions, commercial driveways shall remain open at all times. The Contractor shall schedule the commercial driveways to be poured in two phases unless more than one driveway is available to the property. The Contractor shall coordinate any driveway work with the affected property owners and businesses a minimum of 5 calendar days in advance.

7. All work within public streets and/or roadway right-of-way shall be done in an expeditious manner so as to cause as little inconvenience to the traveling public as possible. Skid-resistant steel plates or other approved methods shall be used to cover all open excavations in the roadway during non-working hours.

Full compensation for furnishing all labor, materials, tools, equipment and incidentals and for doing all work involved in public safety and convenience shall be considered as included in the prices paid for various contract items of work and no additional compensation will be allowed.

9.17 USE OF SLIP-FORM MACHINES FOR CONCRETE CONSTRUCTION

The Contractor may use concrete slip form machines to construct concrete curbs, gutters and sidewalks. The Contractor must maintain proposed lines and grades as shown on the plans. For curbs constructed on existing pavements, the contractor must construct the curb to eliminate any uneven lines and top of curb grade elevations. If in the sole discretion of the Engineer, these lines and grades are not maintained, the Contractor shall remove and replace the concrete at his/her costs.

If concrete curb, or curb and gutter, which is abutting concrete sidewalk, is poured separately (non-monolithically) then the Contractor shall construct a dowelled connection between the curb and sidewalk.

9.18 TRAFFIC CONTROL AND HANDLING FOR CONSTRUCTION STAKING

The Contractor is responsible for providing traffic control (at the request of the City survey crew) to place the Contractor’s construction stakes for this project. The cost to provide traffic control for construction staking in the vehicle travel lanes shall be included in the bid items the Contractor deems appropriate.

9.19 PUBLIC NOTIFICATION

The Contractor shall notify residents and businesses within the project limits in writing Ten (10) working days in advance of beginning work. The notice shall be approved by the Engineer and shall describe the work to be performed, the anticipated duration of construction and the name and telephone number of the Contractor’s representative that can be reached 24 hours a day, 7 days a week.

The Contractor shall be responsible for issuing a second notice to property owners five (5) working days in advance of commencing any work on private property. The Contractor shall submit to the
Engineer for review and approval public notification flyers/postcards before they are issued to the 
public.

The Contractor shall notify, in writing, residents and business establishments along the route of 
the Work at least ten (10) Working Days prior to road closures and at least three (3) Working Days 
prior to disruption of ingress and egress. The notice provided to the residences or businesses shall 
include, at a minimum, schedule of closures with estimated closure times, closure location, 
alternate route or detour, and name and twenty-four (24) hour phone number of a contact person 
employed by the Contractor.

The Contractor shall notify, in writing, residents and business establishments along the route of 
the Work at least three (3) Working Days prior to placing parking restrictions within the City right-
of-way. The notice provided to the residences or businesses shall include, at a minimum, schedule 
of parking restrictions with estimated times, location, and a name and twenty-four (24) hour phone 
number of a contact person employed by the Contractor.

Full compensation for this item shall be included in the prices paid for various contract items of 
work and no additional compensation will be allowed.

9.20 REMOVAL OF ON-STREET PARKING

In Metered Parking Areas:

Seventy-two (72) hours prior to construction, the Contractor shall place signs adjacent to every 
third parking stall stating, "NO PARKING - (specific times and dates) - Tow Away" or "NO 
PARKING - (specific times and dates) - This Block". Contractor shall also contact the City 
Parking Division prior to placing barricades.

Signs shall be placed before 1:00 PM on the day selected to allow sufficient time for City 
inspection.

The Contractor shall request the City Parking Division to cover each parking meter, prior to 
construction, with a "NO PARKING" sign and the signs previously placed adjacent to every third 
stall shall be mounted on a barricade and moved into the parking stall at the Contractors expense.

If the Contractor needs less than the entire block, every stall removed shall be barricaded in 
conjunction with the covering of parking meters.

Where parking removal is necessary, at metered parking stalls, the Contractor shall coordinate 
with the City Parking Division ten (10) days in advance and shall be responsible for the payment 
of parking removal fees (City Code Section 25.122-1). It is recommended that the Contractor 
consult with the City Parking Division (phone 916-808-5874) prior to submission of his bid to 
obtain an estimate of the fees for this project. Note: Typical fees are $29 to bag the first meter and 
$5 each additional meter. Daily meter fees are typically $2.25 each day Monday through Saturday.

In Non-Metered Parking Areas:
Seventy-two (72) hours prior to construction (except Monday work, barricades shall be placed on the prior Thursday), the Contractor shall place signed Type II barricades stating "NO PARKING - (specific times and dates) - Tow Away" or "NO PARKING - (specific times and dates) - This Block", at 50 to 60 foot intervals in the work area. The Contractor shall notify the City Parking Division (916-808-5874) prior to placing barricades. No fee is required in Non-metered zones. "NO PARKING" signs shall be approved by the Engineer prior to their use. "NO PARKING" signs and barricades shall be supplied by the Contractor. The Contractor shall notify the Engineer immediately after the "NO PARKING" signs are in place.

Barricades shall be placed before 1:00 PM on the day selected to allow sufficient time for City inspection.

Failure to comply with this section will prevent the City from towing vehicles parked within the proposed work area until the provisions of this section have been met and will require rescheduling of planned work. Additionally, "NO PARKING" signs and barricades shall not be removed prior to removal/towing of vehicles in violation of posted "NO PARKING" signs.

Payment shall include full compensation for furnishing all labor, materials, tools, equipment, incidentals and payment of all fees required to perform all work, as specified in these Special Provisions and as directed by the Engineer and shall be considered as included in the prices paid for the various contract items of work. No additional compensation will be allowed therefore.

9.21 EQUIPMENT LIST AND DRAWINGS SUBMITTALS

Equipment list and drawings shall be in accordance with Section 34-3 of the Standard Specifications and these Special Provisions.

Unless otherwise permitted in writing by the Engineer, the Contractor shall, within twenty (20) days following notification of award of the contract submit to the Engineer for approval a listing of equipment and material which he/she proposes to furnish and install. The list shall be complete as to name of manufacturer, size and catalog number of unit, and shall be supplemented by other data, including detailed scale drawings and wiring drawings. A minimum of five (5) copies of the above data shall be submitted to the Engineer for review and approval.

The Contractor shall submit to the Engineer a statement from each vendor supplying electrical equipment, including but not limited to, signal heads, standards, electrolizers, luminaries, service pedestal and all other electrical equipment indicating that the orders for the materials required for this contract have been received and accepted by said vendor. The confirmed date of delivery to the contractor shall be indicated on the statement.

All substitutions are subject to the approval of the Engineer.
9.22 PROOF OF COMPLIANCE WITH CONTRACT

In order that the Engineer may determine whether the Contractor has complied with the requirements of the contract documents not readily determinable through inspection and tests of plant, equipment, work, or materials, the Contractor shall at any time when requested, at the Contractor's expense, submit to the Engineer properly authenticated documents or other satisfactory proofs as to his compliance with such requirements.

9.23 BACKFILLING OF VOIDS

All voids resulting from the removal of trees, pipes, maintenance holes, ditch boxes, or other buried structures or objects shown on the Plans or called in these Special Provisions to be removed, shall be backfilled per the provisions of Section 26 (Trench Backfill) of the Standard Specifications. In the event job excavated native material is unsuitable for backfill as determined by the Engineer, the Contractor shall furnish the required suitable backfill material.

The cost to backfill voids as specified in the Special Provisions shall be included in the price bid for the respective items to remove trees, pipe, maintenance holes, ditch boxes, or other buried structures or objects, and no additional compensation shall be allowed.

9.24 PAVEMENT CUTTING AND RESTORATION

Pavement cutting and restoration shall conform to the provisions of Section 13-4 of the Standard Specifications and these Special Provisions.

No pavement cutting shall precede pavement excavation by more than seven (7) calendar days unless approved by the Engineer. Prior to excavation in paved areas, pavement will be broken within the limits of expected excavation so as to prevent lifting of the pavement during excavation. Prior to restoration, the pavement shall be sawed or scored with an abrasive type pavement cutter (maximum blade width 1/4"'). The proper tools and equipment shall be used so that the pavement will be cut to a neat and straight line six inches (6") beyond the limits of actual excavation.

Where pavement cutting takes place more than five (5) calendar days before trench excavation, the Contractor shall fill the pavement cuts with asphaltic patching mix and maintain a smooth riding surface until trenching begins.

Where the limits of excavation are located within twelve (12") of the edge of existing pavement or lip of the curb and/or gutter, the existing pavement within this twelve inches (12") shall also be removed.

Full compensation for furnishing all labor, materials, tools, equipment and incidentals and for all work involved in this item shall be considered as included in the unit price bid for roadway excavation and removing and replacing asphaltic concrete pavement.
9.25 PROTECTION OF TREES

During construction the Contractor shall protect existing trees. All work near the trees shall be coordinated by the Contractor with the City Arborist, Kevin Hocker, phone number 916-808-4996. The Contractor shall comply with direction as given by the City Arborist and the following City requirements regarding tree protection:

No storage of materials or parking of vehicles may occur within the drip lines of the trees, except on paved streets.

If, during construction, tree roots two inches (2") in diameter or greater are encountered, work shall stop immediately and the City Arborist shall be contacted for a root inspection, and roots shall not be cut without arborist approval. Roots approved by the arborist to be pruned during the course of project construction shall be cleanly cut. If extensive root pruning is proposed an arborist inspection will determine if tree removal is necessary.

If construction activities will affect any of the limbs of the trees, a certified arborist (certified by International Society of Arboriculture, Western Chapter) shall be consulted prior to the cutting or removal of any limb. Limbs approved by the arborist to be pruned during the course of project construction shall be cleanly cut.

The Contractor shall be responsible for damages to trees. Trees damaged by the Contractor during construction activities shall be assessed by the City Arborist using the International Society of Arborists (ISA) appraisal guide or UFS standard diameter and area indexing. The Contractor's responsibility for damaged trees will be determined by the Arborist.

Full compensation for furnishing all labor, materials, tools, equipment and incidentals and for doing all work involved in this section shall be considered as included in the prices paid for various contract items of work and no additional compensation will be allowed.

9.26 TREE TRIMMING

Trees identified by the Engineer to be trimmed shall be trimmed in accordance with the following specifications and as directed by the Engineer or project Arborist in conjunction with the City Arborist:

General Conditions - This work is to be performed by a Tree Service Contractor, licensed and bonded to do business in the City of Sacramento. The work to be done will consist not only of this trimming and removal of branches and limbs but also disposal of material trimmed from these trees. Disposal of material will not be allowed at the City Dump.

Contractor shall be aware of and shall comply with all ordinances governing and related to tree trimming work. Contractor shall furnish all labor, materials and equipment as required in performing the work described herein in strict accordance with these specifications and subject to the terms and conditions of this contract.

Description of Work - The work shall be done primarily from truck mounted aerial platforms except where trees are inaccessible to trucks. All hand and power tools in the performance of this
work shall be subject to inspection and approval of the Manager of the Urban Forest Services division or his designated representative who shall serve as the inspector for the City.

In general, the standard tree trimming equipment shall be used and shall be maintained in a satisfactory condition at all times. All tools shall be clean, sharp, in proper working order and shall be checked for safety before each job.

Inspection/Permit - The Contractor shall notify the Engineer prior to 8:00 a.m. on each day Contractor will be trimming trees.

The Contractor shall notify, 3 working days prior to tree trimming, the City Arborist, Duane Goosen, (916) 808-4996 and obtain, for this project, a permit for tree trimming within the City.

Special Conditions - All licenses, insurance, etc., necessary to assume the legal responsibility for said work shall be acquired by the Contractor to cover the liabilities which might be caused by said work.

All workmen shall comply with State Compensation Safety Rules and must wear safety equipment at all times while on the job. Adequate warning devices, barricades, guards, cones, etc., shall be placed and necessary precautions shall be taken by the Contractor to provide protection for the workers, pedestrians and vehicular traffic in the area. Work shall be scheduled and conducted in a cooperative manner in order to give the least possible interference with or annoyance to others. It shall be the responsibility of the Contractor to work out any cooperative work schedules as necessary.

All tree work requiring climbing of trees shall be suspended during inclement weather. No trimmings or debris shall be left overnight on any of the work sites. Upon completion of a specific area, the site shall be left in a clean and orderly condition. It shall be the responsibility of the Contractor to repair any damages to adjacent property including shrubs, trees or other growth as well as structures along the route.

To prevent the spread of Dutch elm disease, tree trimming tools shall be sprayed with Lysol before any tree trimming and after each tree has been trimmed.

Personnel - All work shall be done by qualified and trained persons. They shall be familiar with tree climbing and trimming work in general and trained to work in trees of any size. A qualified foreman shall be provided to oversee and direct the work of each crew.

Correct Cuts - All work shall be done in a professional and workmanlike manner. All cuts shall be made in accordance with the following sections in these Special Provisions, and as directed by the Engineer. Trees shall be trimmed at locations where there are tree conflicts and as directed by the Engineer or project Arborist in conjunction with the City Arborist.

Tree trimming shall include the removal of any limbs or brush from limbs in order to achieve a clear space of at least six foot (6') radial distance from each luminaire. The results of the tree trimming shall produce an unobstructed cone of light that will illuminate a semicircle on the street at street level. The semicircle shall have a radius of forty feet (40') minimum on the street from the electrolizer base. The unobstructed cone of light shall also illuminate an area at sidewalk level
on the house side of the electrolier. This illuminated area shall extend fifteen feet (15') minimum from the base of the electrolier.

Twigs, small limbs and sucker growth shall be removed with hand pruners, pole pruners or a fine toothed saw. All portions of a tree removed in the pruning operations, whether small or large in diameter, shall be made just outside the branch bark ridge, parallel to and immediately adjacent to the tree limb from which the part is removed.

Any dead wood and broken limbs encountered in the pruning operations shall be removed. Dead wood shall be defined as any portion of the tree having no living foliage, no live buds or no apparent life in the cambium layer. Final cuts on dead limbs shall not cut into the branch bark ridge or branch collar of the parent limb. Dead limbs larger than three-fourths of one inch (3/4") in diameter shall be removed by sawing. Broken limbs shall be removed except where branches have split and one portion of the branch can be saved by pruning to reduce lateral end weight.

Shrubs shall be pruned as directed by the Engineer and shall conform to current ISA specifications.

Full compensation for conforming to these requirements will be considered as included in the prices paid for various contract items of work and no additional compensation will be allowed therefor.

9.27 STOP WORK IF CULTURAL RESOURCES ARE DISCOVERED

If artifacts or stone, bone, or shell are uncovered during construction activities, the Contractor shall stop work within 100 feet of the find and notify the City, who will consult with a qualified archaeologist for an on-the-spot evaluation. Additional mitigation of the archaeological site will be the responsibility of the City. If bone is found and it appears to be human, the City will notify the Sacramento County coroner and the Native American Heritage Commission (916-322-7791).

9.28 HEALTH AND SAFETY

The Contractor is warned that existing sewers and appurtenances have been exposed to sewage and industrial wastes. These facilities shall therefore be considered contaminated with disease-causing organisms. Personnel in contact with contaminated facilities, debris, wastewater, or similar items shall be advised by the Contractor of the necessary precautions that must be taken to avoid becoming diseased. It is the Contractor’s responsibility to urge his personnel to observe a strict regime of proper hygienic precautions, including any inoculations recommended by the local public health officer.

Because of the danger of solvents, gasoline, and other hazardous material in the existing sewers, these areas shall be considered hazardous to open flame, sparks, or unventilated occupancy. The Contractor shall be aware of these dangers and shall take the necessary measures to assure his personnel observe proper safety precautions when working in these areas.

The Contractor shall not allow any wastewater to discharge from sewage collection systems onto adjacent lands of waters. In case of accidental discharge, the Contractor shall be responsible for
containment, immediate cleanup and disposal at his own expense to the full satisfaction of the Engineer. Where containment is not possible, adequate disinfection shall be provided by the Contractor at his expense as directed by the Engineer or agency with jurisdiction. If, in the opinion of the Engineer, the Contractor fails to adequately follow the above guidelines, he will make arrangements to have the work done by others, and have the cost charged to the Contractor.

9.29 PERMITS AND STAGING AREA

If the Contractor decides he/she needs additional working easement areas, work sites or material sites to facilitate his operation, it shall be his sole responsibility to locate, negotiate, obtain and pay for such additional working easements, work sites and material sites.

The Contractor shall submit to the Engineer written authorization from the property owner of private property being used for the storage of equipment or materials. A copy of any written agreements entered into between the Contractor and the property owner concerning encroachment onto private property shall be provided to the Engineer prior to beginning any work on the property.

All areas lying outside of the street right-of-way which are affected by the work shall be restored to the same, or better condition existing prior to the commencement of the work, to the satisfaction of the Engineer.

The cost of necessary permits and all restoration, including but not limited to landscaping improvements, shall be included in the various items of work the Contractor deems appropriate, and no separate or additional compensation shall be made.

9.30 EROSION AND SEDIMENT CONTROL

Erosion and Sediment Control shall be in accordance with Section 16 of the City Standard Specifications. The costs associated for compliance with this section including, but not limited to, all water quality, erosion, sediment and pollution control measures deemed necessary by the Engineer shall be included in the contract price bid “Stormwater Pollution Prevention Plan (SWPPP)” and no additional compensation shall be made.
SECTION NO. 10 - ITEMS OF THE BID PROPOSAL

ITEM NO. 1 - MOBILIZATION

Mobilization shall conform to the provisions in Section 11, "Mobilization," of the State Standard Specifications.

The Contractor shall be responsible for coordinating with various utility companies for relocation of any utility poles, lines, adjusting utilities to grade or underground work. The cost of coordination shall be included in the unit prices bid for the various items of the proposal and no additional compensation will be allowed therefor.

Payment shall be at the "lump sum" price bid and shall include full compensation for all labor, materials, tools, equipment and incidentals, and for doing all work involved with mobilization as specified in these Special Provisions, State Standard Specifications and as directed by the Engineer.

ITEM NO. 2 - STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

These requirements consist of regulations contained in the National Pollution Discharge Elimination System (NPDES) Stormwater Permit issued to the City.

This item includes full compensation for furnishing all labor material, tools, equipment, and incidentals for preparing the storm water pollution prevention plan and doing all the work involved in preparing, obtaining approval of, and amending the SWPPP and CSMP, inspecting water pollution control practices, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

1. Dust Control

The Contractor shall comply with all City and County of Sacramento air pollution control rules, regulations, ordinances, and statutes which apply to any work performed pursuant to the contract, including any air pollution control rules, regulations, ordinances, and statutes, specified in the Government Code. The Contractor shall be responsible for the control of dust within the limits of the project at all times including weekends and holidays in addition to normal working days. The Contractor shall take whatever steps are necessary or required by the Engineer to eliminate the nuisance of blowing dust without causing sediment, debris or litter to enter the City storm drain system.

2. Erosion, Sediment, and Pollution Control

The Contractor shall be responsible for controlling erosion and sedimentation within the limits of the project at all times during the course of construction including evenings, weekends and holidays in addition to normal working days. The Contractor shall prevent sediment and construction debris from entering the City storm drain system.

The Contractor shall provide the following erosion, sediment, and pollution control Best Management Practices (BMPs) when and where applicable:

a. Filter Bags in and Gravel bags around any storm drain inlets, which receive runoff from the limits of the construction zone, including storage and staging areas. Alternative storm drain inlet protection BMPs can be used with approval of the Engineer.
b. Covering of material piles and/or gravel berms (or approved equal) around material piles as required to prevent migration of material to gutters or storm drains.

c. Gutter flowlines are to be kept unimpeded and free of soil, debris and construction materials at all times.

d. Stabilized construction entrance at any soil to concrete/asphalt interface used by Contractor vehicles and equipment.

e. Silt fences, fiber rolls or approved equal at any soil to concrete/asphalt interface at which soil may be washed onto the concrete/asphalt.

f. Wash water, slurry and sediment from concrete or asphalt sawcutting operations shall not be allowed to enter the City storm drain system, but instead must be collected and disposed of, by the Contractor, in some manner approved by the Engineer.

The Contractor is required to implement, at a minimum, the following housekeeping practices: site cleanup, solid waste management, material storage and delivery area, concrete waste management, and spill prevention and control.

a. Site Cleanup. The Contractor shall keep the project site clean and free of dust, mud, and debris resulting from the Contractor's operations. Daily clean up throughout the project shall be required as the Contractor progresses with the work. Extra precautions and clean up efforts shall be made prior to weekends and holidays.

Daily or as needed, all paved areas within the limits of the project shall be cleaned and free of sediments, asphalt, concrete and any other construction debris. The Contractor will not be allowed to clean sediment and debris from the street by using water to wash down streets. The streets will be allowed to be washed only after the streets have been thoroughly swept and/or vacuumed and inlet protection has been placed at all storm drain inlets to catch any remaining sediments from the streets.

Spillage of earth, gravel, concrete, asphalt, or other materials resulting from hauling operations along or across any public traveled way shall be removed immediately by the Contractor at his expense. If site is not kept sufficiently clean the City will take measures to clean it and back charge the Contractor.

b. Solid Waste Management. Contractor shall maintain a clean construction site. Contractor shall provide designated areas for waste collection. The waste collection areas shall be leak-proof containers with lids or covers. Site trash shall be collected daily and placed in the disposal containers. The Contractor shall make arrangements for regular waste collection. The Contractor shall also regularly inspect the waste disposal areas to determine if potential pollutant discharges exist.

c. Material Storage and Delivery Area: Contractor shall provide one central material storage and delivery area (MSDA) for the duration of the project. This area shall be protected such that runoff will not be allowed to leave the MSDA site. The Contractor shall regularly inspect the MSDA site to ensure that any hazardous or non-hazardous materials have not spilled.

d. Concrete Waste Management: The Contractor shall arrange for concrete wastes to be disposed of off-site or in one designated on-site area. Concrete wastes, including left-over concrete and material from washing out the concrete truck, shall not be disposed or washed into the storm drain system. If a designated on-site area is provided, the site shall be bermed to allow the concrete to
dry. The dried concrete waste shall be removed and disposed of properly by the Contractor at his expense.

c. Spill Prevention and Control. The Contractor shall be responsible for instructing employees and sub-contractors about preventing spills of hazardous materials, including equipment fuel, and controlling spills if they occur. Proper spill control and cleanup materials and procedures shall be kept on site near the storage and equipment fueling areas and updated as materials change on site. Contractor will be held strictly responsible for the prevention, clean-up and consequences of any hazardous materials spills.

Throughout the duration of the project the Contractor will be required to inspect and maintain, in effective condition, all erosion, sediment, and pollution control BMPs before and after each storm event and as needed. The contractor shall immediately correct or replace any ineffective BMPs.

More information about control measures and housekeeping practices can be obtained by referring to the City of Sacramento's Administrative and Technical Procedures Manual for Grading, Erosion and Sediment Control available at 1395 35th Avenue, Sacramento, CA 95822.

The Contractor shall prepare and submit an erosion, sediment and pollution control plan (ESC Plan) to the Engineer for review, per Section 16 of the Standard Specifications. The submittal shall include a description of all erosion, sediment and pollution control BMPs proposed to be used to prevent sediment and other sources of pollution from entering the City storm drain system as well as a site plan showing their placement. The ESC Plan shall be submitted a minimum of 48 hours prior to start of the work. The Contractor will not be allowed to begin work until an accepted ESC Plan is on file with the Engineer. The erosion, sediment and pollution control plan shall be updated as necessary and re-submitted to the Engineer.

d. Storm Water Pollution Prevention Plan (SWPPP): This project is covered under the State Water Resources Control Board (SWRCB) General Permit for Storm Water Discharges Associated With Construction Activity ("General Permit"). The General Permit is issued by the SWRCB and is enforced by the Central Valley Regional Water Quality Control Board (Regional Board). Failure to comply with the requirements of the General Permit could result in significant daily fines. General Permit coverage is obtained by certifying and filing a Notice of Intent (NOI) with the State Board. The Contractor will be responsible for filing the NOI and paying applicable fees. The General Permit also requires inspection of erosion and sediment control measures before, during, and after storm events.

The SWPPP shall be prepared in accordance with the General Permit. The SWPPP must be prepared by an individual knowledgeable about storm water pollution prevention methods and requirements, and shall be signed by the preparer of the SWPPP. SWPPPs not prepared by a qualified individual may not be acceptable to the City, and the City may require that the Contractor obtain the services of a qualified preparer at the Contractor’s expense. The SWPPP shall be submitted to the City for review and acceptance and implemented by the Contractor before work commences. The Contractor will not be allowed to mobilize until the plan is accepted. The SWPPP must be kept on site at all times, updated for the various phases of the project, and made immediately available for City and Regional Board Inspectors upon request. Updates shall be submitted to the City immediately for review. Individuals responsible for the implementation of the SWPPP shall be appropriately trained, and the SWPPP shall document all training. This includes those personnel responsible for the use, installation, inspection, maintenance, and repair of Best Management Practices (BMP's).
By June 15th of each year, the Contractor shall submit an annual certification to the Engineer stating conformance with the requirements governing the Permit. If the project is in non-compliance at anytime, the Contractor shall make a written report to the Engineer within 15 days of identification of non-compliance.

3. Enforcement

Per City Code Sections 15.88, 13.16 and 1.28, the Contractor shall be subject to Notices of Violation (NOVs) resulting in possible Stop Work Orders and Administrative Penalties of up to $4,999 per day for non-compliance of this section of the Special Provisions.

Per the State’s Porter Cologne Water Quality Act, the Contractor shall also be subject to inspection by Staff from the Central Valley Regional Water Quality Control Board who have the authority to issue Notices of Violation (NOVs) and Penalties of up to $10,000 per day for non-compliance. The Contractor shall be liable for any fines issued to the project by the State or Federal Government for NPDES non-compliance due to Contractor negligence.

The City reserves the right to take corrective action and withhold the City’s costs for corrective action from progress payments or final payment in accordance with Section 7, Retention of Sums Charged against the Contractor, of the Agreement.

Any fines, including third-party claims, levied against the City as a result of Contractor’s non-compliance are the Contractor’s sole responsibility and will be withheld from progress payments or final payment in accordance with Section 7, Retention of Sums Charged against the Contractor, of the Agreement.

Payment shall be at the lump sum bid and shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, filing NOI and paying applicable fees and for doing all work involved in preparing and implementing Stormwater Pollution Prevention Plan (SWPPP) as shown on the Plans, as specified in these Special Provisions and as directed by the Engineer.

ITEM NO. 3 - TRAFFIC CONTROL SYSTEMS

The contractor’s attention is directed to Sections 6 and 7 of the Standard Specifications.

The contractor shall submit to the Engineer for review and approval a traffic handling and detour plan showing traffic control measures for vehicles, pedestrians and bicycles affected by the construction work. For emergency purposes, the responsible person in charge of the work must be reachable by phone 24 hours a day during the progress of the work. A 24-hour phone number shall be indicated on the permit application.

The contractor shall adhere to guidelines as stated in Section 12.20.030 of Title 12 of the Sacramento City Code pertaining to Traffic Control Plan – Requirements, and shall conform to the current edition of the California MUTCD. Particular attention is directed to Chapter 6D – Pedestrian and Worker Safety and Chapter 6F – Temporary Traffic Control Zone Devices, Section 6F.68 – Detectable Edging for Pedestrians.

CONTRACTOR SUBMITTALS

The Contractor must submit for review and approval the following items:
A. **Construction Sequencing Plan** – detailing the proposed construction staging and proposed closures including limits, durations, and dates. All closures shall be clearly indicated in the project schedule.

B. **Detour Plan** – detailing the rerouting of pedestrian, bicycle, and vehicular traffic during any proposed closures.

C. **Traffic Control Plan** – detailing how pedestrian, bicycle, and vehicular traffic will be routed through active construction areas.

The submitted plans shall cover all proposed phases of work. Each plan shall be submitted to the Engineer for review and approval. The contractor shall make all requested modifications to these plans and no work affected by these plans shall begin until the plans have been approved.

**ACCESS TO BUSINESSES**

Access to businesses must be maintained at all times. The pedestrian walkways fronting the businesses on the north and south side of Meadowview Road and 24th Street must be staged so pedestrian access is maintained to the businesses as construction is occurring. Pedestrian access to businesses must meet all applicable ADA requirements. The contractor developed traffic handling plan must include details for how this access will be maintained.

**PUBLIC CONVENIENCE**

All work within public streets and/or roadway rights-of-way shall be done in an expeditious manner and cause as little inconvenience to the traveling public as possible. Vehicles, bicycles, and pedestrians must be allowed to pass at all times except during an Engineer approved closure.

**PEDESTRIAN AND BICYCLIST ACCESS**

The Contractor shall not block the movement of pedestrian or bicycle traffic unless as part of an Engineer approved closure. The Contractor shall provide for pedestrian and bicycle traffic by phasing construction operations or by providing alternative pedestrian and bicyclist access through or adjacent to construction areas. The contractor must submit for review and approval a traffic handling plan which includes details for the provision of pedestrian and bicycle access.

Proper advance notice signage with reasonable detours shall be installed and maintained through all phases of construction. At no time shall pedestrians be diverted into a portion of the street used for vehicular traffic or on to private property unless adequate lane closure signage is in place. Minimum allowable pedestrian and bicycle access shall consist of four-foot (4') wide bridges across trenches and four-foot (4') wide passageways through construction areas. Hand railings for pedestrians shall be provided when required by Cal/OSHA Regulations or the Americans with Disabilities Act (ADA) on each side of each bridge or passageway to protect pedestrians from hazards caused by construction operations or adjacent vehicular traffic. Railings or barricades, which border passageways located in roadway areas, shall be reflectorized on the side facing oncoming traffic.
ACCESS TO DRIVEWAYS, HOUSES AND BUILDINGS

Access and passable grades shall be maintained at all times for business establishments during construction. Safe and passable pedestrian, bicyclist, and vehicular access shall be provided and maintained to fire hydrants, homes, commercial and industrial establishments. Access to these facilities shall be continuous and unobstructed unless otherwise approved. Ramps and driveways shall not have “lips” or elevation differences greater than three-eighths of an inch (3/8”). When abutting property owner’s access across the right-of-way line is to be eliminated, repaired, or replaced under the Contract, the existing access shall not be closed until their replacement access facilities are completed and functional.

ERECTION OF SIGNS TO EXPEDITE PASSAGE OF VEHICLES

The Contractor shall erect such warning and directional signs as necessary or as directed by the Engineer for expediting the passage of public traffic through or around the Work and the approaches.

TRAFFIC OBSTRUCTIONS, DELAYS AND INCONVENIENCES

All public traffic shall be permitted to pass through the Work zone unless during an Engineer approved closure, and the Contractor shall conduct operations that offer the least possible obstruction, delay, and inconvenience to the public.

WORK ON PRIVATE PROPERTY

The Contractor must obtain written permission from the owner of any privately owned property prior to beginning any work, storing materials or otherwise conducting any operations on said property. The written approval from the property owner must be on file with the Engineer before any operations will be permitted on said property.

HAZARDOUS CONDITIONS CREATED

Whenever the Contractor’s operations create a condition hazardous to pedestrians, bicyclists, or the traveling public, the Contractor shall, at the Contractor’s own expense, furnish, erect and maintain any fences, covers, temporary railing (Type K), barricades, lights, signs and other devices necessary or as directed by the Agency to prevent accidents or damage or injury to the public or property.

If needed for public use, roadway excavation shall be conducted to maintain a smooth and even surface satisfactory for use by public traffic at all times. This includes creating a temporary AC conform between the proposed concrete roadway and existing conditions during each construction stage and the laying of temporary AC to facilitate temporary parking during construction as shown on the plans. The surface of the roadbed shall be kept in a smooth, even condition free of humps and depressions, satisfactory for the use of public traffic as determined by the Agency.

Temporary facilities that the Contractor uses to perform the Work or store or stage material or equipment shall not be installed or placed where they will interfere with the free and safe passage of public vehicular, bicycle, or pedestrian traffic.
TRAFFIC CONTROL PLAN

The Contractor shall submit a site specific Traffic Control Plan to the Engineer at the pre-construction meeting in accordance with Section 6-10 of the Standard Specifications. Revisions to the plan shall be submitted five (5) days prior to work. A copy of the Traffic Control Plan shall be available on site at all times. The Traffic Control Plan shall be developed within the following parameters:

1. No work will be allowed if the Contractor does not adhere to these traffic control guidelines.

2. The Contractor shall provide continuous businesses access (for loading operations, pedestrian traffic and safety vehicles) during the businesses’ hours of operations. If two driveways access a single business, one driveway must remain open at all times. If a single driveway or loading dock access a business, half of the driveway must remain open at all times.

3. At least one lane of vehicular traffic must be maintained in each direction at all times unless otherwise approved by the Engineer. Local access to businesses shall be provided at all times.

4. Working hours shall be between 8:30 AM and 4:00 PM Monday through Friday, unless otherwise approved by the Engineer.

5. Weekend work from 7:00 AM to 6:00 PM may be approved by the Engineer.

6. The Contractor shall submit for approval, a written request to perform weekend work a minimum of two (2) weeks prior to the weekend dates. If weekend work is approved, the additional cost of inspection shall be borne by the City.

7. The Contractor shall furnish, install temporary stripes and maintain temporary construction warning signs, lighting, flaggers, barricades, striping and other devices necessary to safeguard the general public and the work, and to provide for the safe and proper routing of all vehicular and of pedestrian traffic within and through the limits of the projects during the construction. The requirement shall apply continuously and shall not be limited to normal working hours.

8. The Contractor shall maintain existing electrical facilities and traffic and public safety in accordance with Section 34 of the Standard Specifications and these Special Provisions.
9. Except as specified elsewhere in these Special Provisions, commercial driveways shall remain open at all times. The Contractor shall schedule the commercial driveways to be poured in two phases unless more than one driveway is available to the property. The Contractor shall coordinate the driveway closure with property owners 5 calendar days in advance.

10. All work within public streets and/or roadway right-of-way shall be done in an expeditious manner so as to cause as little inconvenience to the traveling public as possible. Skid-resistant steel plates or other approved methods shall be used to cover all open excavations in the roadway during non-working hours.

11. Loading access to businesses must be maintained at all times. Pedestrian access with ADA compliant path of travel must be provided and maintained.

12. All work is to be done in accordance with City of Sacramento noise ordinances, per Section 6 in the City Standard Specifications.

13. Prior to 8:30 A.M. and after 4:00 P.M Monday through Friday, public traffic must have access to the number of lanes normally available on all streets unless otherwise approved.

14. Ten calendar days (10) prior to roadway or lane closures, changeable message signs shall be placed where designated by the Engineer. Changeable message signs shall be considered part of this item and no additional compensation will be allowed therefor. The message on the changeable message sign shall be approved in writing by the Engineer two days prior to installment on the roadway. If the Contractor fails to install changeable message signs per these guidelines, the Contractor shall pay TWO THOUSAND DOLLARS ($2000) per street as liquidated damages, for each day the work is being performed.

15. Lane closures shall be in conformance with an approved traffic control plan.

16. Placement and removal of the temporary traffic stripes and markings (place 2-coat paint 4” wide white stripe and place 2-coat paint pavement marking) required in each stage of construction shall be considered part of this item and no additional compensation will be allowed therefor.

17. Removal of any existing conflicting pavement stripes or markings shall be considered part of this item and no additional compensation will be allowed therefore.

18. Relocation of roadway signs from their current location to a temporary location needed for stage construction and all sign relocations needs during construction including
temporary barricades shall be considered part of this item and no additional compensation will be awarded therefor.

Payment shall be the lump sum price bid for Traffic Control System. The work covered under this bid item shall include full compensation for all temporary traffic control devices, signage and pavement delineation, and for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all work involved in developing and implementing a Traffic Control System, including all plan submittals and revisions, as specified in these Special Provisions, and as directed by the Engineer.

ITEM NO. 4 - TEMPORARY FENCE (ESA)

Temporary Fence (ESA) shall be furnished, installed, maintained, and removed at close out of the project or as directed by the Engineer.

All excavation required to install Temporary Fence (ESA) shall be performed by hand methods without the use of power equipment.

Payment shall be at the unit price bid per linear foot and shall include full compensation for all labor, materials, tools, equipment and incidentals, and for doing all work involved with Temporary Fence (ESA) as specified in these Special Provisions, State Standard Specifications and as directed by the Engineer.

ITEM NO. 5 - ABANDON PIPE

Existing clay pipe as shown on the plans or as directed by the Engineer shall be removed within four (4) feet of subgrade. The remaining portion of the clay pipe that is lower than the aforesaid shall, at the option of the contractor, be removed or shall be filled completely with Control Density Fill (CDF) that meets the requirements of Section 10-16 of the Standard Specifications or import material with a sand equivalent of 20 or greater.

Any excavation or depression created by removal of all or a portion of the clay pipe shall be backfilled to within 12 inches of the asphalt concrete pavement using CDF, Class 2 aggregate base, or import material with a sand equivalent of 20 or greater. The Class 2 aggregate base and import material shall be compacted to at least 90 percent relative compaction. The backfill shall be overlain by a pavement section consisting of at least 21.5 inches of Class 2 aggregate base and 6 inches of asphalt concrete placed to match existing grade as per these Special Provisions and the Standard Specifications. The Class 2 aggregate base within the pavement section shall be compacted to at least 95 percent relative compaction. Excavation and backfill shall conform to Section 14-2, Structure Excavation and Backfill, of the Standard Specifications unless superseded by these Special Provisions.

All clay pipe, or portions thereof, removed shall become the property of the Contractor and disposed of away from the project site.
Payment shall be at the unit price bid per each pipe abandoned and shall include all labor, materials, equipment and incidentals necessary to complete this item including pavement cutting and removal, excavating, furnishing and placing necessary materials, backfilling, removing and disposing of existing clay pipe, flow control, shoring, dewatering, and repaving or other surface restoration.

ITEM NO. 6 - REMOVE THERMOPLASTIC TRAFFIC STRIPE
Thermoplastic and preformed traffic stripes (4", 6", 8", 12") shall be removed to the fullest extent possible from the pavement by grinding. Grinding material left on the pavement as a result of removing traffic stripes shall be removed as the work progresses. Accumulations of grinding material, which might constitute a hazard to traffic, will not be permitted.

The striping and markings' contractor shall be required to provide and submit to the Engineer a weekly schedule of work for each week showing a list of streets in order of performance at least one week prior to performing any work. A contact person and phone number of responsible parties shall be affixed to this list.

The Contractor shall place temporary markers prior to removing traffic control measures during the striping removal operation. Temporary markers shall be maintained until permanent striping is in place.

Measurement shall be by the linear foot of traffic stripe removed. No payment will be made for gaps in broken traffic stripes. Double center stripes shall be paid as two (2) four-inch stripes.

Twelve-inch traffic stripes are defined as both transverse and longitudinal lines, which include, but are not limited to, 12" limit lines, 12" crosswalks stripes, and 12" speed hump stripes. 24" limit lines shall be considered as two 12" stripes to remove.

The quantities of this item may be adjusted, deleted, or omitted as directed by the Engineer to meet existing requirements. No adjustment to the unit price bid will be made because of a change in quantity from the Engineer's estimate.

Payment shall be at the unit price per linear foot bid traffic stripe removed regardless of width and shall include full compensation for furnishing all labor, materials, tools, equipment, incidentals and for doing all work involved with removing traffic stripes as specified in these Special Provisions and as directed by the Engineer.

ITEM NO. 7 - REMOVE THERMOPLASTIC PAVEMENT MARKING
Thermoplastic and preformed pavement marking shall be removed to the fullest extent possible from the pavement by grinding. Grinding material left on the pavement as a result of removing markings shall be removed as the work progresses. Accumulations of grinding material, which might constitute a hazard to traffic, will not be permitted.

The quantities of this item may be adjusted, deleted, or omitted as directed by the Engineer to meet existing requirements. No adjustment to the unit price bid will be made because of a change in quantity from the Engineer's estimate.

Pavement markings are defined as, but are not limited to, word and symbol markings, parking brackets, and "Triple-four" crosswalks.
Payment shall be at the unit price per square foot pavement markings removed and shall include full compensation for furnishing all labor, materials, tools, equipment, incidentals and for doing all work involved with removing pavement markings as specified in these Special Provisions and as directed by the Engineer.

ITEM NO. 8 - REMOVE SIDEWALK

Sidewalk, of various thickness, designated on the plans to be removed or which conflicts with the proposed improvements under this contract, shall be removed.

Concrete removed shall be disposed of outside the City right of way unless otherwise shown or specified in the Contract.

Where no joint exists between concrete to be removed and concrete to remain in place, the concrete shall be cut in a neat line to a minimum depth of 0.17-foot with a power driven saw before concrete is removed. All sawcutting, removing a portion of the existing concrete sidewalk, conforming to the proposed sidewalk, and disposal of removed and excavated materials, excavation and fill, and finish grading required to construct sidewalk conforms shall be included in this item of work.

Where concrete has been removed outside the roadway prism, the backfilled areas shall be graded to drain and blend in with the surrounding terrain.

Concrete to be removed which has portions of the same structure both above and below ground will be considered as concrete above ground for compensation.

Broken pieces of concrete shall be immediately removed from the job site and disposed of. NO PORTIONS OF BROKEN CONCRETE SHALL REMAIN ON THE JOB SITE OVERNIGHT.

Payment shall be based at the unit price bid per square foot and shall include full compensation for all labor, materials, tools, equipment and incidentals, and for doing all work involved with removing concrete sidewalk as shown on the Plans, as specified in these Technical Specifications and as directed by the Engineer.

ITEM NO. 9 - REMOVE DRIVEWAY

Driveways, designated on the plans to be removed or which conflicts with the proposed improvements under this contract, shall be removed.

Where no joint exists between concrete to be removed and concrete to remain in place, the concrete shall be cut in a neat line to a minimum depth of 0.17-foot with a power driven saw before concrete is removed. All sawcutting, removing a portion of the existing concrete driveway, conforming to the proposed sidewalk, and disposal of removed and excavated materials, excavation and fill, and finish grading required to construct concrete driveway and conforms shall be included in this item of work.

Where concrete has been removed outside the roadway prism, the backfilled areas shall be graded to drain and blend in with the surrounding terrain.

Concrete to be removed which has portions of the same structure both above and below ground will be considered as concrete above ground for compensation.
Broken pieces of concrete shall be immediately removed from the job site and disposed of. **NO PORTIONS OF BROKEN CONCRETE SHALL REMAIN ON THE JOB SITE OVERNIGHT.**

The removal of the driveway shall include the sidewalk transitions to the sidewalk but does not include the curb and gutter in front of the driveway.

Payment shall be based at the unit price bid per square foot and shall include full compensation for all labor, materials, tools, equipment and incidentals, and for doing all work involved with removing concrete driveway as shown on the Plans, as specified in these Technical Specifications and as directed by the Engineer.

**ITEM NO. 10 - REMOVE CURB**

**ITEM NO. 11 - REMOVE CURB AND GUTTER**

Concrete curb, and curb & gutter designated on the plans to be removed or which conflicts with the proposed improvements under this contract, shall be removed.

Concrete removed shall be disposed of outside the City right of way unless otherwise shown or specified in the Contract.

Where no joint exists between concrete to be removed and concrete to remain in place, the concrete shall be cut in a neat line to a minimum depth of 0.1/-foot with a power driven saw before concrete is removed. All sawcutting, removing a portion of the existing concrete curb and gutter, conforming to the proposed sidewalk, and disposal of removed and excavated materials, excavation and fill, and finish grading required to construct curb and gutter conforms shall be included in this item of work.

Where concrete has been removed outside the roadway prism, the backfilled areas shall be graded to drain and blend in with the surrounding terrain.

Concrete to be removed which has portions of the same structure both above and below ground will be considered as concrete above ground for compensation. Removal of curb and gutter at existing driveways is included in the Remove Concrete Curb and Gutter bid item.

Broken pieces of concrete shall be immediately removed from the job site and disposed of. **NO PORTIONS OF BROKEN CONCRETE SHALL REMAIN ON THE JOB SITE OVERNIGHT.**

Payment shall be based at the unit price bid per linear foot and shall include full compensation for all labor, materials, tools, equipment and incidentals, and for doing all work involved with removing concrete curb, and curb & gutter as shown on the Plans, as specified in these Technical Specifications and as directed by the Engineer.

**ITEM NO. 12 - REMOVE SIGN**

Existing roadside signs shall be removed where shown on the Plans or as directed by the Engineer and shall conform to the applicable requirements of Section 32 of the Standard Specifications and these Special Provisions. Removed sign panels shall be salvaged and delivered to the City of Sacramento Traffic Sign and Markings Section at 5730 24th Street, Building 10, Sacramento, CA. Existing roadside signs shall not
be removed until replacement signs have been installed or until the existing signs are no longer required for the direction of public traffic, unless otherwise directed by the Engineer.

Payment shall be at the unit price bid per each sign to remove and shall include full compensation for furnishing all labor, material, tools, equipment, incidentals and for doing all work involved in removing roadside signs as shown on the Plans, as specified in these Special Provisions and as directed by the Engineer.

ITEM NO. 13 - REMOVE CHAIN LINK FENCE AND GATE
Existing fences and gate, at those locations shown on the plans to be removed, shall be removed and disposed of.

Payment shall be at the unit price bid per linear feet and shall include full compensation for furnishing all labor, material, tools, equipment and incidentals, and for doing all work involved with removing fence and gate as shown on the Plans, as specified in these Technical Specifications and as directed by the Engineer.

ITEM NO. 14 - REMOVE WALL (JOB CORPS)
Existing masonry wall at the Job Corps, as shown on the plans to be removed, shall be removed and disposed of.

Payment shall be at the unit price bid per linear feet and shall include full compensation for furnishing all labor, material, tools, equipment and incidentals, and for doing all work involved with removing fence and gate as shown on the Plans, as specified in these Technical Specifications and as directed by the Engineer.

ITEM NO. 15 - REMOVE DRAIN INLET
The Contractor shall remove inlets where shown on the Plans, as directed by the Engineer, and in accordance with Section 14 of the Standard Specifications and these Special Provisions.

Concrete removed shall be disposed of outside the right of way in accordance with the provisions in Section 7-1.13 of the State Specifications.

The existing grates shall be cleaned of all foreign material and delivered to the City of Sacramento Corporation Yard, Division of Field Services, 5730 24th Street, Attention: Jeff Heard, Drainage Superintendent (916) 433-6223.

Payment shall be at the unit price bid per each and shall include full compensation for all labor, materials, tools, equipment and incidentals and for doing all work involved in removing inlet as shown on the Plans as specified in these Special Provisions and as directed by the Engineer.

ITEM NO. 16 - REMOVE CONCRETE PLANTER AND WALL (VILLA JARDIN)
The Contractor shall remove existing concrete planter and wall where shown on plans, as directed by the Engineer, and in accordance with Section 14 of the Standard Specifications and these Special Provisions.

Payment shall be at the unit price bid per each and shall include full compensation for all labor, materials, tools, equipment and incidentals and for doing all work involved in removing concrete planter and wall (Villa Jardin) as shown on the Plans as specified in these Special Provisions and as directed by the Engineer.
ITEM NO. 17 - RELOCATE ROADSIDE SIGN

Existing roadside signs shall be removed as shown on the plans, unless otherwise directed by the Engineer.

Payment shall be at the unit price bid per each and shall include full compensation for furnishing all labor, material, tools, equipment and incidentals, and for doing all work involved with relocating roadside sign and installing a new post as shown on the Plans, as specified in these Technical Specifications and as directed by the Engineer.

ITEM NO. 18 - RELOCATE ROADSIDE SIGN WITH NEW POST

Existing roadside signs shall be removed as shown on the plans, unless otherwise directed by the Engineer. This item shall include furnishing and installing a new post.

Payment shall be at the unit price bid per each and shall include full compensation for furnishing all labor, material, tools, equipment and incidentals, and for doing all work involved with relocating roadside sign and installing a new post as shown on the Plans, as specified in these Technical Specifications and as directed by the Engineer.

ITEM NO. 19 - RELOCATE FENCE AND GATE

Contractor shall remove and reset the existing fence where shown on the Plans, as directed by the Engineer, and in accordance with Section 13 of the Standard Specifications.

The Contractor shall use existing fence material from the respective property in the resetting of fences. Contractor shall replace any fencing material damaged with new material of equal quality or better.

The Engineer shall determine the amount and exact limits of fence to be reset in the field. Measurement for payment shall be based upon the actual length of fence reset. No adjustment to the unit price bid for this item shall be made for any variation in the estimated quantity.

Payment shall be at the unit price bid per linear foot and shall include full compensation for furnishing all labor, materials, tools, equipment, incidentals and for doing all work involved in relocating existing fence and gate as shown on the Plans as specified in these Special Provisions and as directed by the Engineer.

ITEM NO. 20 - RELOCATE WATER METER

The Contractor shall relocate water meter where shown on plans, as directed by the Engineer.

Payment shall be at the unit price bid per each and shall include full compensation for all labor, materials, tools, equipment and incidentals and for doing all work involved in relocating water meters as shown on the Plans as specified in these Special Provisions and as directed by the Engineer.
ITEM NO. 21 - RELOCATE FIRE HYDRANT

This item shall consist of relocating and installing a standard fire hydrant at the locations indicated on the Plans, installed in accordance with applicable portions of Sections 10, 27 and 38 (W201) of the Standard Specifications with the exception that extension kits used to adjust fire hydrants to new grade are prohibited. The contractor shall meet the bury depth requirements by use of 45 degree fittings. Up to 12” extension is allowed on hydrant installation.

Apex Blue, two-way, type BB, reflective pavement markers, or approved equal, shall be placed using Crafo Qwikstix adhesive, or approved equal, for each standard fire hydrant installation. The reflectors shall be placed 6”-12” from the road centerline adjacent to the hydrant on an imaginary line from the hydrant perpendicular to that centerline.

If the road has an island divider, the reflector shall be placed 6”-12” from the nearest division of traffic lanes to the hydrant, and on an imaginary line from the hydrant perpendicular to that division of lanes. If a hydrant is placed at an intersection, reflectors shall be placed on all streets adjacent to the hydrant. In no case shall a marker be placed on a maintenance hole, valve box, lane striping, existing marker, or other road appurtenance.

Payment for the Fire Hydrant shall include the $2876.00 8” tap fee to City Crews to tap the Water Main. The fee will include the cost of furnishing and installing an 8” Gate Valve. Contractor is responsible for excavation, back fill and restoration.

Payment shall be at the contract unit price bid for each standard fire hydrant relocated and installed and shall include full compensation for furnishing all labor, materials, tools, equipment, incidentals and for doing all work involved with relocating and installing the fire hydrant as shown on the Plans, as specified in these Special Provisions and as directed by the Engineer.

ITEM NO. 22 - RELOCATE WATER VALVE

The Contractor shall relocate water valve where shown on plans, as directed by the Engineer.

Payment shall be at the unit price bid per each and shall include full compensation for all labor, materials, tools, equipment and incidentals and for doing all work involved in relocating water valves as shown on the Plans as specified in these Special Provisions and as directed by the Engineer.

ITEM NO. 23 - RELOCATE SEWER CLEANOUT

The Contractor shall relocate sewer cleanout where shown on plans, as directed by the Engineer.

Payment shall be at the unit price bid per each and shall include full compensation for all labor, materials, tools, equipment and incidentals and for doing all work involved in relocating sewer cleanout as shown on the Plans as specified in these Special Provisions and as directed by the Engineer.

ITEM NO. 24 - RELOCATE AIR RELEASE VALVE

The Contractor shall relocate air release valve where shown on plans, as directed by the Engineer.
Payment shall be at the unit price bid per each and shall include full compensation for all labor, materials, tools, equipment and incidentals and for doing all work involved in relocating air release valve as shown on the Plans as specified in these Special Provisions and as directed by the Engineer.

ITEM NO. 25 - RELOCATE WATER SAMPLE STATION
The Contractor shall relocate water sample station where shown on plans, as directed by the Engineer.

Payment shall be at the unit price bid per each and shall include full compensation for all labor, materials, tools, equipment and incidentals and for doing all work involved in relocating water sample station as shown on the Plans as specified in these Special Provisions and as directed by the Engineer.

ITEM NO. 26 - RELOCATE VEHICLE GATE (PANNELL CENTER)
The Contractor shall relocate vehicle gates at Pannell Center where shown on plans, as directed by the Engineer. Contractor shall modify existing gate and posts and coordinate with City to finalize modifications and location of steel pipe gates and posts.

Payment shall be at the unit price bid per each and shall include full compensation for all labor, materials, tools, equipment and incidentals and for doing all work involved in relocating vehicle gates as shown on the Plans as specified in these Special Provisions and as directed by the Engineer.

ITEM NO. 27 - ADJUST WATER METER BOX TO GRADE
The Contractor shall adjust water meter box to grade where shown on plans, as directed by the Engineer.

Payment shall be at the unit price bid per each and shall include full compensation for all labor, materials, tools, equipment and incidentals and for doing all work involved in adjusting water meter box to grade as shown on the Plans as specified in these Special Provisions and as directed by the Engineer.

ITEM NO. 28 - ADJUST WATER VALVE BOX TO GRADE
Utility boxes and water valves shall be adjusted to grade and shall conform to applicable requirements of Sections 10, 27 and 38 of the Standard Specifications and these Special Provisions.

Included in this item is furnishing and placing new utility boxes and steel standpipes (risers) and liners as required and adjusting the utility boxes to grade.

The Contractor shall ensure that utility box covers and water valve covers are not covered with concrete coatings during paving operations. Standpipes shall be left clean and free of paving materials and debris. The valve-operating nut shall be left fully exposed after all paving operations have been completed.

Payment shall be at the unit price bid per each and shall include full compensation for furnishing all labor, materials, tools, equipment, incidentals and for doing all work involved in adjusting water valves box to grade, as shown on the Plans as specified in these Special Provisions and as directed by the Engineer.
ITEM NO. 29 - ADJUST SEWER CLEAN OUT BOX TO GRADE

The Contractor shall adjust water sewer clean out box to grade where shown on plans, as directed by the Engineer.

Payment shall be at the unit price bid per each and shall include full compensation for all labor, materials, tools, equipment and incidentals and for doing all work involved in adjusting sewer clean out box to grade as shown on the Plans as specified in these Special Provisions and as directed by the Engineer.

ITEM NO. 30 - ADJUST SEWER MAINTENANCE HOLE TO GRADE

Existing maintenance holes shall be adjusted to the grade of the new surface and shall conform to the applicable requirements of Sections 10, 25 and 38 of the Standard Specifications and these Special Provisions.

The cost of adjusting a maintenance hole shall include any necessary lowering, temporarily removing, covering and raising the maintenance hole head to the grade of the new surface under this item.

If lowering is necessary, the Contractor shall verify that all lowered maintenance holes are raised back to grade by back checking against drawings. The Contractor shall perform field review with the Engineer to ensure all maintenance holes shown on the drawings have been raised to grade.

Payment shall be at the unit price bid per each and shall include full compensation for furnishing all labor, materials, tools, equipment, incidentals and for doing all work involved in adjusting sewer maintenance holes to grade as shown on the Plans, as specified in these Special Provisions and as directed by the Engineer.

ITEM NO. 31 - MODIFY STORM DRAIN MAINTENANCE HOLE

Existing maintenance holes shall be modified and shall conform to the applicable requirements of the Standard Specifications and these Special Provisions.

Payment shall be at the unit price bid per each and shall include full compensation for furnishing all labor, materials, tools, equipment, incidentals and for doing all work involved in modifying stormwater maintenance holes as shown on the Plans, as specified in these Special Provisions and as directed by the Engineer.

ITEM NO. 32 - ROADWAY EXCAVATION AND GRADING

Excavation and grading shall conform to Section 14 of the Standard Specifications and these Special Provisions.

Excavation shall include sawcutting and removal of all asphalt concrete (AC), aggregate base (AB), Portland Cement Concrete (PCC), native material, tree roots and soil to allow construction of improvements to the lines and grades shown on the Plans. This item shall include grading behind the proposed sidewalk necessary to match the existing grades and improvements.
This work shall include excavation and grading necessary to construct the proposed street section, median, curb, gutter, sidewalk, driveways, walkways and shall include finish grading to match the back of sidewalk to surrounding grade using a maximum 4:1 slope per the construction plans. This work shall include shaping and trimming of slopes, and the placement and compaction of excavated earth material to the lines and grades shown on the Plans.

All existing asphalt pavements to be removed shall be full depth saw-cut at the limits of removal as shown on the Plans and in accordance with Section 13 of the Standard Specifications.

Excess excavated material shall become the property of the Contractor and shall be deposited in a location and manner satisfactory to the Engineer. When any material is to be disposed of outside the right-of-way, the Contractor shall obtain written permission from the owner upon whose property the disposal is to be made before any material is deposited thereon.

Native material within the project limits was tested for contamination and there is potential for Class I and Class II contaminated soil on site. The Contractor shall possess the necessary special class license or a combination of classes required by the categories and classes of work included in this item. Included in the Appendix is the Site Investigation Report. The Contractor shall review this document and be familiar with the requirements for excavating the native material, reporting and disposal requirements prior to preparing a bid for this project.

The Contractor shall sample material to determine if the material shall be transported and disposed of at either a Class I or Class II disposal site, for landfill and disposal or the material is not contaminated and shall be removed off-site per Section 14 of the Standard Specifications. The cost of soil testing is the sole responsibility of the contractor. While soils may not be categorized non-hazardous, predicted lead UCLs excavated may exceed residential land use criteria.

Health and Safety
The Contractor shall prepare a project specific Health and Safety Plan (HASP) in accordance with regulations and guidelines contained in Title 8, sections 5155, 5192 and 5194 of the California Code of Regulations, and Title 29, sections 1910.120 and 1926 of the Code of Federal Regulations.

The Contractor shall also prepare a project specific Lead Compliance Plan to prevent or minimize worker exposure to lead while handling material containing lead.

The Lead Compliance Plan shall contain the elements listed in Title 8, California Code of Regulations, Section 1532.1. Before submission to the City, the Lead Compliance Plan shall be approved by a Certified Industrial Hygienist. The plan shall be submitted to the City for review and acceptance prior to beginning work in areas containing lead.

Excavation, Stockpiling, and Transportation
The Contractor shall prepare a written, project-specific Excavation and Transportation Plan establishing the procedures the Contractor will use to comply with requirements for excavating, stockpiling, transporting, and placing (or disposing) of soil/debris material. The plan shall conform to the regulations of the DTSC and Cal-OSHA. The sampling and analysis portions of the Excavation and Transportation Plan shall be in general conformance with USEPA, SW 846, "Test Methods for Evaluating Solid Waste". The plan shall contain, but not be limited to the following elements:
• Excavation schedule
• Temporary locations of stockpiled material
• Sampling and analysis plans for stockpiles:
• Location and number of samples
• Analytical laboratory
• Dust control measures
• Air monitoring
• Transportation equipment and routes
• Method for preventing spills and tracking material onto public roads
• Truck waiting and staging areas
• Site for disposal of waste
• Spill Contingency Plan for material containing contaminants of concern

Excavation, transportation, and handling of soil/debris containing contaminants of concern shall result in no visible dust migration. The Contractor shall have a water truck or tank on the job site at all times while performing earthwork operations.

Soil/debris stockpiles shall not be placed where affected by surface run-on or run-off. Stockpiles shall be covered with plastic sheeting, 1.3 mils minimum thickness. Stockpiles shall not be placed in environmentally sensitive areas. Stockpiled material shall not enter storm drains, inlets, or waters of the State. The Contractor shall maintain the stockpile covers so the entire pile is covered at all times except during soil placement, sampling, and soil removal. Covers shall remain in place until all soil is removed from the site.

For Non-Hazardous waste, haulers should be provided with non-hazardous manifests for each truckload transported to a landfill. In addition to the manifest, the hauler should have a description of the waste (soil), where it came from, the expected concentrations, etc.

Any material regulated by the State of California as Hazardous Waste shall be transported to and disposed of at a Class I or Class II Disposal Site (depending on the level of contamination). Transportation and Disposal of Class I contaminated materials is paid for under line item “Transport and Dispose Class I Contaminated Soil” and no additional compensation will be allowed. Transportation and Disposal of Class II contaminated materials is paid for under line item “Transport and Dispose Class II Contaminated Soil” and no additional compensation will be allowed. Material excavated from these areas shall be transported by a Hazardous Waste transporter registered with the DTSC using the required procedures for creating a manifest for the material. For material designated as Hazardous Waste requirements for transportation and disposal are specific according to California and Federal laws. Vehicles used to transport Hazardous Material shall conform to the current certifications of compliance of the DTSC.

Prior to traveling on public roads, loose and extraneous material shall be removed from surfaces outside the cargo areas of the transporting vehicles and the cargo shall be covered with tarpaulins or other cover, as outlined in the approved Excavation and Transportation Plan. The Contractor shall be responsible for costs due to spillage of soil/debris during transport.
Soil Disposal
Soil scheduled for disposal shall be analyzed for the contaminants of concern by the Contractor prior to removing the material from the project limits. The Contractor shall submit a sampling and analysis plan and the name of the analytical laboratory to the City’s Project Manager prior to beginning sampling or analysis. The Contractor shall use a laboratory certified by the California Department of Health Services. Sampling shall meet the minimum requirements of the accepting disposal facility.

The disposal facility shall be operating under a permit issued by the appropriate California Environmental Protection Agency board or department.

If disposal of Hazardous Waste is required, the City will obtain an Environmental Protection Agency (EPA) Generator Identification Number and State of California Board of Equalization Identification Number. The City will sign all Hazardous Waste manifests.

IF THE SOIL DOES NOT NEED TO BE TRANSPORTED AND DISPOSED OF AT A CLASS I OR CLASS II LANDFILL, IT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE PAID FOR AT THE UNIT PRICE FOR ROADWAY EXCAVATION AND GRADING. NO ADDITIONAL COMPENSATION FOR STOCKPILING, TRANSPORTING, AND DISPOSAL WILL BE PROVIDED.

Coordination of the testing and hauling of excavated material is the responsibility of the Contractor. No delay claims will be allowed for project delays due to the lack of storage space within the staging area.

Existing Facilities

The Contractor shall exercise extreme care to avoid damaging the curb and gutter lips, sidewalks, and planting areas during excavation operations. Gutter lips damaged by the Contractor which are spalled in excess of one inch (1") deep by five inches (5") long will be repaired at the Engineer’s direction. The cost of repairs to damaged curb and gutter shall be considered as included in this item and no separate payment shall be made therefore.

Payment shall be made based on the final pay quantity indicated on the Sealed Proposal and will not be recalculated in the field. Payment for fill grading shall be included in the unit bid price for this item and shall not be made separately.

Payment shall be based on final pay quantity per cubic yard and shall include full compensation for all labor, materials, tools, equipment, incidentals, Lead Compliance Plan and for doing all work involved with roadway excavation and grading as shown on the Plans, as specified in these Special Provisions and as directed by the Engineer.
ITEM NO. 33 - TRANSPORT AND DISPOSE CLASS I CONTAMINATED SOIL

This item shall consist of transporting and disposal of Class I contaminated soil as identified in Roadway Excavation and Grading item. Removal of the soil shall be consistent with the Excavation and Transportation Plan established by the Contractor and approved by the Engineer.

The quantity shown in the Bid Proposal for this item shall be considered approximate. No guarantee is made or implied that the quantity will not be reduced, increased or deleted as may be required by the Engineer. If no Class I contaminated soil is encountered, then the quantity shown for this item will be deleted.

Payment shall be at the unit price bid per ton based on the collected tickets from the landfill facility and shall include full compensation for all labor, materials, tools, equipment and incidentals, and for doing all work involved in transporting and disposal Class I contaminated material as specified in these Special Provisions and as directed by the Engineer.

ITEM NO. 34 - TRANSPORT AND DISPOSE CLASS II CONTAMINATED SOIL

This item shall consist of transporting and disposal of Class II contaminated soil as identified in Roadway Excavation and Grading item. Removal of the soil shall be consistent with the Excavation and Transportation Plan established by the Contractor and approved by the Engineer.

The quantity shown in the Bid Proposal for this item shall be considered approximate. No guarantee is made or implied that the quantity will not be reduced, increased or deleted as may be required by the Engineer. If no Class II contaminated soil is encountered, then the quantity shown for this item will be deleted.

Payment shall be at the unit price bid per ton based on the collected tickets from the landfill facility and shall include full compensation for all labor, materials, tools, equipment and incidentals, and for doing all work involved in transporting and disposal Class II contaminated material as specified in these Special Provisions and as directed by the Engineer.

ITEM NO. 35 - CLASS 2 AGGREGATE BASE

Class 2 aggregate base shall be placed as shown on the Plans and conform to Sections 10 and 17 of the Standard Specifications and these Special Provisions.

This item shall include placing Class 2 aggregate base in the proposed curb, curb and gutter, sidewalk, and raised walkways and where shown on the plans and directed by the Engineer.

Payment shall be made at the unit price bid per cubic yard and shall include full compensation for furnishing all labor, materials, tools, equipment, incidentals and for doing all work involved in placing Class 2 aggregate base as shown on the Plans, as specified in these Special Provisions and as directed by the Engineer.
ITEM NO. 36 - HOT MIX ASPHALT CONCRETE PAVEMENT (3/4” TYPE A)

Asphalt concrete shall be Type A, 3/4” maximum aggregate (coarse) and shall be placed as shown on the Plans, as specified in these Special Provisions and in conformance with the requirements of Sections 10 and 22 of the Standard Specifications.

The cost for saw cutting the asphalt concrete at conforms as shown on the plans, shall be full compensated into the unit cost for HMA and no separate or additional payment shall be made.

Payment shall be at the unit price bid per ton based on the weight tickets and shall include full compensation for furnishing all labor, materials, tools, equipment, incidentals and for doing all work involved in placing asphalt concrete pavement as shown on the Plans, as specified in these Special Provisions and as directed by the Engineer.

ITEM NO. 37 - MICROSURFACING (TYPE 2)

Microsurfacing shall consist of mixing a polymer modified, cationic microsurfacing emulsion (MSE), aggregate, mineral filler, set-control additives, and water and spreading the mixture on a pavement surface where shown on the plans, in conformance with the provisions in these specifications, and as directed by the Engineer.

Material:

The material for microsurfacing shall conform to the following requirements:

Microsurfacing Emulsion (MSE)

Microsurfacing Emulsion (MSE) shall be homogenous and shall conform to the provisions of these special provisions. The polymer shall be milled or blended into the asphalt or blended into the emulsifier solution prior to the emulsification process.

The MSE shall conform to the following requirements when tested in conformance with the following test methods:

<table>
<thead>
<tr>
<th>Specification Designation</th>
<th>Test Method</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Viscosity SSF @ 77 F</td>
<td>AASHTO T 59</td>
<td>15-90 Seconds</td>
</tr>
<tr>
<td>Sieve, max.</td>
<td>AASHTO T 59</td>
<td>0.30 Percent</td>
</tr>
<tr>
<td>Settlement, 5 days, max.</td>
<td>ASTM D244</td>
<td>5 Percent</td>
</tr>
<tr>
<td>Storage Stability, 1 day, max.</td>
<td>AASHTO T 59</td>
<td>1 Percent</td>
</tr>
<tr>
<td>Residue by Evaporation, min.</td>
<td>California Test 331</td>
<td>62 Percent</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Specification Designation for Residue</th>
<th>Test Method</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Penetration@ 77 F, 100g, 5s, 0.1mm</td>
<td>AASHTO T 51</td>
<td>40-90</td>
</tr>
<tr>
<td>Softening Point F min.</td>
<td>AASHTO T53</td>
<td>135</td>
</tr>
</tbody>
</table>
Water and Additives
Water shall be of such quality that the asphalt will not separate from the MSE before the microsurfacing is placed on the pavement. If necessary for workability, a set-control agent that will not adversely affect the microsurfacing product may be used.

Mineral Filler
Mineral filler shall be Portland cement or hydrated lime that is free of lumps. Portland cement shall be either Type I, Type II, Type III or combination thereof. The type of mineral filler shall be determined by the Contractor based on laboratory mix designs. The mineral filler will be considered part of the aggregate gradation requirement.

Black Aggregate
The mineral aggregate used shall be of the type and grade specified for the particular use of the microsurfacing. Aggregate shall consist of sound, durable, crushed stone or crushed gravel and approved mineral filler. The material shall be free from vegetable matter and other deleterious substances. Aggregates shall be 100% crushed material with no rounded particles. All aggregate shall be free of caked lumps and oversize particles.

The aggregate shall be volcanic in origin and black in color, as supplied by George Reed, Table Mountain Plant, Sonora, CA, or equal. The use of gray or light-colored aggregate shall not be allowed.

The aggregate, prior to the addition of emulsion shall conform to the requirements of this section. If aggregates are blended each component aggregate shall meet the sand equivalency and abrasion resistance and shall be 100% crushed as tested in accordance with California Test 205. The definition of a crushed particle in California Test 205 Section D, is amended to read: “Any particle having 2 or more fresh mechanically fractured faces shall be considered a crushed particle.”

The percentage composition by mass of the aggregate (including mineral filler) shall conform to the following grading requirements when tested in conformance with California Test 202:

<table>
<thead>
<tr>
<th>Sieve Size</th>
<th>Percentage Passing</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8”</td>
<td>100</td>
</tr>
<tr>
<td>No. 4</td>
<td>94 - 100</td>
</tr>
<tr>
<td>No. 8</td>
<td>65 - 90</td>
</tr>
<tr>
<td>No. 16</td>
<td>40 - 70</td>
</tr>
<tr>
<td>No. 30</td>
<td>25 - 50</td>
</tr>
<tr>
<td>No. 200</td>
<td>5 - 15</td>
</tr>
</tbody>
</table>
The aggregate (excluding mineral filler) shall conform to the following quality requirements:

<table>
<thead>
<tr>
<th>Test</th>
<th>California Test</th>
<th>Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sand Equivalent (min.)</td>
<td>217</td>
<td>70</td>
</tr>
<tr>
<td>Durability Index (min.)</td>
<td>229</td>
<td>75</td>
</tr>
<tr>
<td>Percentage of Crushed Particles (min.)(^1)</td>
<td>205</td>
<td>100%</td>
</tr>
<tr>
<td>Los Angeles Rattler Loss at 500 Rev. (max.)(^2)</td>
<td>211</td>
<td>35%</td>
</tr>
</tbody>
</table>

Notes: 1. CT 205, Section D, is amended to read: "Any particle having 2 or more freshly, mechanically fractured faces shall be considered a crushed particle."
2. Los Angeles Rattler shall be performed on the parent aggregate before crushing.

If the results of the aggregate grading do not meet the specified gradation, the microsurfacing represented by the test shall be removed. However, if requested in writing by the Contractor and approved by the Engineer, the microsurfacing may remain in place and the Contractor shall pay to the City $2.00 per ton for the aggregate represented by the tests and left in place.

If the results of the Sand Equivalent test for aggregate do not meet the specified requirement, the microsurfacing represented by the test shall be removed. However, if requested in writing by the Contractor and approved by the Engineer, the microsurfacing may remain in place and the Contractor shall pay to the City $2.00 per ton for the aggregate represented by the tests and left in place.

When the results of both the aggregate grading and the Sand Equivalent tests do not conform to the specified requirements, both payments to the City shall apply. The City may deduct these amounts from any moneys due or to become due the Contractor.

No single aggregate grading or Sand Equivalent test shall represent more than 303 tons of one day's production, whichever is smaller.

**Mix Design:**
At least 7 working days before the microsurfacing placement commences, the Contractor shall submit for approval of the Engineer a laboratory report of tests and a proposed mix design covering the specific materials proposed for use on the project.

The percentages of each individual material proposed in the mix design shall be shown in the laboratory report. Individual materials shall be within the following limits:

<table>
<thead>
<tr>
<th>Material</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Residual Asphalt</td>
<td>3.5% to 9.5% by dry mass of aggregate</td>
</tr>
<tr>
<td>Mineral Filler</td>
<td>0% to 3% by dry mass of aggregate</td>
</tr>
<tr>
<td>Additive</td>
<td>As needed</td>
</tr>
<tr>
<td>Water</td>
<td>As needed</td>
</tr>
</tbody>
</table>

Adjustments may be required during construction based on field conditions.

The mix design and aggregate tests shall be performed by a laboratory capable of performing the applicable International Slurry Surfacing Association (ISSA) tests. The proposed microsurfacing
mixture shall conform to the specified requirements when tested in conformance with the following tests:

<table>
<thead>
<tr>
<th>Test</th>
<th>ISSA Test Method</th>
<th>Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wet Cohesion</td>
<td>TB* 139</td>
<td>12 kg-cm</td>
</tr>
<tr>
<td>@ 30 Minute (Set) (min.)</td>
<td></td>
<td>20 kg-cm</td>
</tr>
<tr>
<td>@ 60 Minute (Traffic) (min.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Excess Asphalt</td>
<td>TB* 109</td>
<td>540 g/m²</td>
</tr>
<tr>
<td>Wet Stripping (min.)</td>
<td>TB* 114</td>
<td>90%</td>
</tr>
<tr>
<td>Wet Track Abrasion 6-day Soak Loss (max.)</td>
<td>TB* 100</td>
<td>810 g/m²</td>
</tr>
<tr>
<td>Displacement</td>
<td>TB* 147A</td>
<td>5%</td>
</tr>
<tr>
<td>Lateral (max.)</td>
<td></td>
<td>2.10</td>
</tr>
<tr>
<td>Specific Gravity After 1000 Cycles of 125 lbs. (max.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Classification Compatibility</td>
<td>TB* 144</td>
<td>(AAA, BAA) 11 Grade Points</td>
</tr>
<tr>
<td>Mix Time @ 77°F</td>
<td>TB* 113</td>
<td>Controllable to 120 Seconds</td>
</tr>
</tbody>
</table>

TB* = Technical Bulletin

The laboratory that performed the tests and designed the mixture shall sign the laboratory report. The report shall show the results of the tests on individual materials and shall compare their values to those required by these special provisions. The report shall clearly show the proportions of aggregate, filler (minimum and maximum), water (minimum and maximum), set control additive, and MSE solids content (minimum and maximum) based on the dry mass of aggregate. The laboratory shall report the quantitative effects of moisture content on the unit mass of the aggregate (bulking effect) in conformance with the requirements of ASTM Designation C 29M. Previous laboratory reports covering the same materials may be accepted provided the material test reports were completed within the previous 12 months. The mix design shall further show the recommended changes in mineral filler, water, and additive proportions for high temperature weather conditions by reporting proportions of materials required for 60 seconds of mix time with materials heated to 100 °F. This 100 °F mixing report will not be required for projects requiring nighttime application.

The component materials used in the mix design shall be representative of the microsurfacing materials proposed by the Contractor for use on the project.

Once the mix design is approved by the Engineer, no substitution of other material will be permitted unless the materials proposed for substitution are first tested and a laboratory report is submitted for the substituted design in conformance with the provisions of these specifications. Substituted materials shall not be used until the mix design for those materials has been approved by the Engineer.

The completed mixture, after addition of water and set control agent, if used, shall be such that the microsurfacing mixture has proper workability. At the expiration of the road closure hours, in conformance with the provisions in "Maintaining Traffic" of these specifications, the microsurfacing mixture shall be sufficiently cured to support unrestricted traffic.
Proportioning:
Aggregate, mineral filler, MSE, water, and additives, including the set-control agent, if used, shall be proportioned by volume utilizing the mix design approved by the Engineer. If more than one kind of aggregate is used, the correct amount of each kind of aggregate to produce the required grading shall be proportioned separately, prior to adding the other materials of the mixture, in a manner that will result in a uniform and homogeneous blend.

The aggregate shall be proportioned using a belt feeder operated with an adjustable cutoff gate. The height of the gate opening shall be determinable. The MSE shall be proportioned by a positive displacement pump. Variable rate emulsion pumps, if used, shall be calibrated and sealed in the pump's calibrated condition in conformance with California Test 109 prior to usage.

The delivery rate of aggregate and MSE per revolution of the aggregate feeder shall be calibrated at the appropriate gate settings for each mixer-spreader truck used on the project in conformance with California Test 109 and in conformance with the provisions of these special provisions.

The aggregate belt feeder shall deliver aggregate to the pugmill with such volumetric consistency that the deviation for any individual aggregate delivery rate check-run shall not exceed 2.0 percent of the mathematical average of 3 runs of at least three tons each. The emulsion pump shall deliver MSE to the pugmill with such volumetric consistency that the deviation for any individual delivery rate check-run shall be within 2.0 percent of the mathematical average of 3 runs of at least 300 gallons each. The water pump shall deliver water to the pugmill with such volumetric consistency that the deviation for any individual delivery rate check-run shall be within 2.0 percent of the mathematical average of 3 runs of at least 300 gallons each.

The MSE storage tank shall be located immediately before the emulsion pump and shall be equipped with a device which will automatically shut down the power to the emulsion pump and aggregate belt feeder when the MSE level is lowered to a point where the pump suction line is exposed.

A temperature-indicating device shall be installed in the emulsion storage tank at the pump suction level. The device shall indicate the temperature of the MSE and shall be accurate to within 10°F.

The belt delivering the aggregate to the pugmill shall be equipped with a device to monitor the depth of aggregate being delivered to the pugmill. The device for monitoring the depth of aggregate shall automatically shut down the power to the aggregate belt feeder whenever the depth of aggregate is less than the target depth of flow. A second device shall be located where the device will monitor the movement of the aggregate belt by detecting revolutions of the belt feeder. The devices for monitoring no flow or belt movement shall automatically shut down the power to the aggregate belt when the aggregate belt movement is interrupted. The device to detect revolutions of the belt feeder will not be required where the aggregate delivery belt is an integral part of the drive chain. To avoid erroneous shutdown by normal fluctuation, a delay of 3 seconds will be permitted between sensing and shutdown of the operation.

Mixing and Spreading Equipment:
The microsurfacing shall be mixed in continuous pugmill mixers of adequate size and power for the type of microsurfacing to be placed. All indicators shall be in conformance with the provisions
of these special provisions and shall be in working order prior to commencing mixing and spreading operations.

Mixer-spreader trucks shall be equipped to proportion the MSE, water, aggregate, mineral filler, and set-control additives by volume. Rotating and reciprocating equipment on mixer-spreader trucks shall be covered with metal guards.

The mixer-spreader truck shall not be operated unless low-flow and no-flow devices and revolution counters are in good working condition and functioning and metal guards are in place. Indicators required by these special provisions shall be visible while walking alongside the mixer-spreader truck.

Aggregate feeders shall be connected directly to the drive on the emulsion pump. The drive shaft of the aggregate feeder shall be equipped with a revolution counter reading to the nearest one-tenth of a revolution.

The microsurfacing mixture shall be spread by means of a spreader box conforming to the following requirements:

**Spreader Box**
The spreader box shall be capable of placing the microsurfacing a minimum of 12 feet wide and shall have strips of flexible rubber belting or similar material on each side of the spreader box and in contact with the pavement to prevent the loss of microsurfacing from the box. Spreader boxes over eight feet in application width shall have baffles, reversible motor driven augers or other suitable means to insure uniform application on superelevated sections and shoulder slopes. Spreader box skids shall be maintained in such manner as to prevent chatter (wash boarding) in the finished mat. The spreader box in use shall be clean and free of microsurfacing and MSE at the start of each work shift.

The spreader box shall have a series of strike-off devices at the rear of the box. The leading strike-off device shall be fabricated of steel, stiff rubber or other suitable material. The number of strike-off devices shall be determined by the Contractor. The first strike-off device shall be designed to maintain close contact with the pavement during the spreading operations. shall obtain the thickness required, and shall be capable of being adjusted to the various pavement cross sections for application of a uniform microsurfacing finished surface. The final strike-off device shall be fabricated of flexible material suitable for the intended use and shall be designed and operated to ensure a uniform texture is achieved in the finished surface of the microsurfacing. The final strike-off device shall be cleaned or changed daily if problems with longitudinal scouring occur.

Flexible fabric drags attached to the rear of the spreader box shall not be used.

**Preparation of Surface:**
Immediately prior to applying the microsurfacing, the Contractor shall clean the street surface and lip of gutter joints of all loose material, silt spots, vegetation, and any other matter, which may adversely affect the adherence of the slurry to the existing pavement.

The Contractor shall remove thermoplastic stripes/markings, preformed traffic stripes/markings and raised pavement markers prior to microsurfacing operation. The cost of removal of all raised
pavement markers including raised blue fire hydrant markers, all thermoplastic and preformed	pavement stripes/markings shall be included in the removal of Thermoplastic Stripe and Pavement
Markings bid items.

The Contractor shall be responsible for sweeping all streets with a mechanical power broom prior
to sealing. The Engineer may require particularly dirty streets to be flushed with water. The
Engineer must approve all flushing operations. The Contractor shall be responsible for cleaning
sidewalks and driveways soiled by flushing operations.

The City shall remove and dispose of any garden refuse piles placed in the street.

The Contractor shall be responsible for locating, covering, removing, cleaning and protecting all
utility covers, maintenance hole covers, water valve boxes, and any other utility covers. The
methods of protection, referencing, locating, and cleaning shall be subject to approval by the
Engineer prior to any resurfacing.

All protective coverings shall be removed from maintenance hole covers, water valve boxes, and
other utility covers each day before opening the street to traffic. If the Contractor fails to protect
utility covers or fails to remove all protective coverings within 3 working days of notification, the
Contractor shall pay an administrative penalty of TWO HUNDRED AND FIFTY ($250) per
calendar day for each utility cover.

Existing blue fire hydrant locators shall be removed prior to placing of the microsurfacing. New
"raised, blue dot, hydrant marking devices" shall be installed by the Contractor after the
microsurfacing has been set for three (3) calendar days, but no later than seven (7) calendar days
after placement of the microsurfacing. The Contractor shall place the new approved "blue dot,
hydrant marking devices" with approved two-part epoxy adhesive per the instruction and at the
locations determined by the Engineer. If the Contractor fails to place the new “blue dot, hydrant
marking devices” in the time period allowed, the Contractor shall pay an administrative penalty of
TWO HUNDRED AND FIFTY ($250) per calendar day for each blue dot not in place. The
placing of the raised blue dots shall be paid for under “Pavement Markers” item of these
Specifications.

**Placing:**
The microsurfacing mixture shall be uniformly spread on the existing surfacing within the rate
specified without spotting, rehandling or otherwise shifting of the mixture.

The microsurfacing mixture shall not be placed when the ambient temperature is below 50 °F or
during unsuitable weather. Microsurfacing shall not be placed if rain is imminent or if there is the
possibility that there will be freezing temperatures within 24 hours.

Microsurfacing shall be spread at a rate within the following ranges of pound of dry aggregate per
square yard.

<table>
<thead>
<tr>
<th>Microsurfacing Type</th>
<th>Location</th>
<th>Spread Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type II</td>
<td>Full Traffic Width</td>
<td>10 - 20</td>
</tr>
<tr>
<td>Type III(^1)</td>
<td>Full Traffic Width</td>
<td>20 - 32</td>
</tr>
<tr>
<td>Type III²</td>
<td>Full Traffic Width</td>
<td>30 - 32</td>
</tr>
<tr>
<td>-----------</td>
<td>--------------------</td>
<td>--------</td>
</tr>
</tbody>
</table>
| Notes: 1. For microsurfacing over asphalt concrete pavement.  
2. For microsurfacing over Portland cement concrete pavement and concrete bridge decks. |

Longitudinal joints shall correspond with the edges of the traffic lanes. The Engineer may permit other patterns of longitudinal joints if the patterns will not adversely affect the quality of the finished product.

Through traffic lanes shall be spread in full lane widths only. Longitudinal joints common to 2 traffic lanes shall be butt joints with overlaps not to exceed 3 inches. Building paper shall be placed at the transverse joints to avoid double placement of the microsurfacing. Other suitable methods to avoid double placement of the microsurfacing will be allowed. Hand tools shall be available to remove spillage.

The mixture shall be uniform and homogeneous after placing on the surfacing and shall not show separation of the MSE and aggregate after setting. The completed surface shall be of uniform texture and free from ruts, humps, depressions, or irregularities.

Adequate means shall be provided to protect the microsurfacing from damage by traffic until such time that the mixture has cured sufficiently so that the microsurfacing will not adhere to or be picked up by the tires of vehicles.

The Contractor shall be responsible for sweeping the streets and sidewalks where excessive raveling may occur after placing of microsurfacing, at no additional cost to the City.

The Contractor is responsible for one sweep approximately one week after placement of microsurfacing and a final sweep approximately three to four weeks after placement of microsurfacing.

The Contractor is responsible for additional sweeping if requested by the Engineer. If additional sweeping is not performed within 24 hours of the engineer’s request, the Contractor shall pay liquidated damages of $300.00 per calendar day for each street requested.

Test Strip:
The Contractor shall construct a test strip for evaluation by the Engineer. The test strip shall be 300 feet to 500 feet long and shall consist of the application courses specified. The test strip shall be constructed at the same time of day or night that the full production of microsurfacing will be placed and may be constructed in 2 days or nights when multiple course applications are specified.

The Engineer will evaluate the completed test strip after 12 hours of traffic on the completed test strip to determine if the mix design and placement procedure are acceptable. If the mix design or the placement procedure is determined by the Engineer to be unacceptable, the test strip will be rejected, the Contractor shall make modifications, and a new test strip shall be constructed and evaluated by the Engineer. The cost of materials and placement of the test strips, which have been rejected, shall be borne by the Contractor and will not be considered as part of the contract work. If ordered by the Engineer, rejected test strips shall be removed at the Contractors expense.
Repair of Early Distress:
If bleeding, raveling, delamination, rutting, or washboarding occurs after placing the microsurfacing, the Contractor shall diligently pursue repairs by any method approved by the Engineer.

Measurement and Payment:
Measurement for payment shall be taken from edge of pavement to edge of pavement, or from lip of the gutter to lip of gutter.

Payment shall be at the unit price bid per square yard and shall include full compensation for furnishing all labor, material, tools, equipment, and incidentals to perform all work involved in microsurfacing, as specified in these Specifications and as directed by the Engineer.

ITEM NO. 38 - TYPE 3 CURB
Portland cement concrete type 3 curb shall be constructed as shown on the Plans or as directed by the Engineer and shall conform to the applicable requirements of Sections 10, 24 and 38 (DWG. T-11) of the Standard Specifications.

Payment shall be at the unit price bid per linear foot and shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all work involved in constructing type 3 curb as shown on the Plans, as specified in these Special Provisions and as directed by the Engineer.

ITEM NO. 39 - TYPE 4 CURB
Portland cement concrete type 4 curb shall be constructed as shown on the Plans or as directed by the Engineer and shall conform to the applicable requirements of Sections 10, 24 and 38 (DWG. T-11) of the Standard Specifications.

Payment shall be at the unit price bid per linear foot and shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all work involved in constructing type 4 curb as shown on the Plans, as specified in these Special Provisions and as directed by the Engineer.

ITEM NO. 40 - TYPE 14 CURB
Portland cement concrete type 14 curb shall be constructed as shown on the Plans or as directed by the Engineer and shall conform to the applicable requirements of Sections 10, 24 and 38 (DWG. T-11) of the Standard Specifications.

Payment shall be at the unit price bid per linear foot and shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all work involved in constructing type 14 curb as shown on the Plans, as specified in these Special Provisions and as directed by the Engineer.
ITEM NO. 41 - CURB AND GUTTER TYPE 2

Portland cement concrete curb and gutter type 2 shall be constructed as shown on the Plans or as directed by the Engineer and shall conform to the applicable requirements of Sections 10, 24 and 38 (DWG. T-11) of the Standard Specifications.

The curb and gutter portion of the curb ramps and transitions to existing curb and gutter of a different type shall be paid for with this item of work.

Payment shall be at the unit price bid per linear foot and shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all work involved in constructing curb and gutter type 2 as shown on the Plans, as specified in these Special Provisions and as directed by the Engineer.

ITEM NO. 42 - CURB AND GUTTER MODIFIED TYPE 2

Portland cement concrete curb and gutter modified type 2 shall be constructed as shown on the Plans or as directed by the Engineer and shall conform to the applicable requirements of Sections 10, 24 and 38 (DWG. T-11) of the Standard Specifications.

The curb and gutter portion of the curb ramps and transitions to existing curb and gutter of a different type shall be paid for with this item of work.

Payment shall be at the unit price bid per linear foot and shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all work involved in constructing curb and gutter modified type 2 as shown on the Plans, as specified in these Special Provisions and as directed by the Engineer.

ITEM NO. 43 - REINFORCED CURB AND GUTTER

Portland cement concrete reinforced curb and gutter shall be constructed as shown on the Plans or as directed by the Engineer and shall conform to the applicable requirements of Sections 10, 24 and 38 (DWG. T-11) of the Standard Specifications.

The curb and gutter portion of the curb ramps and transitions to existing curb and gutter of a different type shall be paid for with this item of work.

Payment shall be at the unit price bid per linear foot and shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all work involved in constructing reinforced curb and gutter as shown on the Plans, as specified in these Special Provisions and as directed by the Engineer.

ITEM NO. 44 - DRIVEWAY CONFORM (HMA)

Hot Mix Asphalt (HMA) driveways shall be constructed as shown on the Plans or as directed by the Engineer and shall conform to Sections 10, 19, 24 and 38 (DWG. T-21 or T-22) of the Standard Specifications. Driveways shall be constructed at a maximum 10:1 slope in planter area and at a maximum 2% where the sidewalk is attached to curb and gutter.

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Existing driveway and walkway shall be sawcut at the locations marked by the Engineer in the field.

Driveway surfacing which has been removed in order to construct new driveway conforms shall be temporarily resurfaced with aggregate base if the time between removal and replacement will exceed three (3) calendar days. Once the existing driveway surfacing has been removed, the driveway conform area shall be maintained in a dust-free, finish graded condition until the permanent driveway conforms are constructed.

The area around reconstructed driveways shall be finished graded as directed by the Engineer.

The City reserves the right to add, eliminate and/or modify any driveway in the field.

Payment shall be at the unit price bid per square foot and shall include full compensation for all labor, materials, tools, equipment, incidental and for doing all work involved in constructing driveway conform (HMA) as shown on the Plans, as specified in these Special Provisions and as directed by the Engineer.

ITEM NO. 45 - PCC COMMERCIAL DRIVEWAY AND DRIVEWAY CONFORMS

Portland cement concrete (PCC) driveways and conforms shall be constructed as shown on the Plans or as directed by the Engineer and shall conform to Sections 10, 19, 24 and 38 (DWG.T-21 or T-22) of the Standard Specifications. PCC commercial driveways and conforms shall be 6” thick and shall be constructed of Class "C" Portland cement concrete mix. Driveways shall be constructed at a maximum 10:1 slope in planter area and at a maximum 2% where the sidewalk is attached to curb and gutter.

Existing driveway and walkway shall be sawcut at the locations marked by the Engineer in the field.

Driveway surfacing which has been removed in order to construct new driveway conforms shall be temporarily resurfaced with aggregate base if the time between removal and replacement will exceed three (3) calendar days. Once the existing driveway surfacing has been removed, the driveway conform area shall be maintained in a dust-free, finish graded condition until the permanent driveway conforms are constructed.

The area around reconstructed driveways shall be finished graded as directed by the Engineer.

Excavation for aggregate base beneath driveway and conforms shall be included in the bid item for roadway excavation.

The City reserves the right to add, eliminate and/or modify any driveway in the field.

Payment shall be at the unit price bid per square foot and shall include full compensation for all labor, materials, tools, equipment, incidental and for doing all work involved in constructing PCC commercial driveways and conforms as shown on the Plans, as specified in these Special Provisions and as directed by the Engineer.
ITEM NO. 46 - PCC RESIDENTIAL DRIVEWAY AND DRIVEWAY CONFORMS

Portland cement concrete (PCC) driveways and conforms shall be constructed as shown on the Plans or as directed by the Engineer and shall conform to Sections 10, 19, 24 and 38 (DWG.T-21 or T-22) of the Standard Specifications. PCC residential driveways and conforms shall be 4" thick and shall be constructed of Class "C" Portland cement concrete mix. Driveways shall be constructed at a maximum 10:1 slope in planter area and at a maximum 2% where the sidewalk is attached to curb and gutter.

Existing driveway and walkway shall be sawcut at the locations marked by the Engineer in the field.

Driveway surfacing which has been removed in order to construct new driveway conforms shall be temporarily resurfaced with aggregate base if the time between removal and replacement will exceed three (3) calendar days. Once the existing driveway surfacing has been removed, the driveway conform area shall be maintained in a dust-free, finish graded condition until the permanent driveway conforms are constructed.

The area around reconstructed driveways shall be finished graded as directed by the Engineer.

Excavation for aggregate base beneath driveway and conform shall be included in the bid item for roadway excavation.

The City reserves the right to add, eliminate and/or modify any driveway in the field.

Payment shall be at the unit price bid per square foot and shall include full compensation for all labor, materials, tools, equipment, incidentals and for doing all work involved in constructing PCC residential driveways and conforms as shown on the Plans, as specified in these Special Provisions and as directed by the Engineer.

ITEM NO. 47 - 4" PCC SIDEWALK

Portland cement concrete (PCC) sidewalk shall be constructed as shown on the Plans or as directed by the Engineer and shall conform to the applicable requirements of Sections 10, 24 and 38 of the Standard Specifications.

The sidewalk portion of the curb ramps shall be paid under this item of the proposal. The curb ramps shall be constructed where shown on the Plans or as directed by the Engineer.

Excavation for aggregate base beneath sidewalks shall be included in the bid item for roadway excavation.

At locations where curb ramps or sidewalks are being retrofitted into existing sidewalk areas, sidewalk shall match existing color by adding one pound of lamp black per cubic yard of concrete.

Payment shall be at the unit price bid per square foot and shall include full compensation for furnishing all labor, materials, tools, equipment, incidentals and for doing all work involved in placing 4" PCC sidewalk as shown on the Plans, as specified in these Special Provisions and as directed by the Engineer.
ITEM NO. 48 - CONCRETE CURB RAMP

No utility pull box, utility pole, traffic signal pull box, traffic signal pole foundation, or any other facility that is visible on or above the surface of a curb access ramp may be located within the area of a curb access ramp without prior approval of the Engineer.

All Concrete Curb Ramps shall be constructed in accordance with this section and all applicable Federal, State and local codes and regulations. Any variations from the details or code requirements must be approved in writing by the Engineer, prior to starting demolition. If a ramp constructed by the Contractor is not in full compliance with the requirements of this section, as determined by the Engineer, the Contractor shall remove and reconstruct the entire ramp at their sole cost and expense. **Note: To ensure full compliance of all curb access ramps with the standard details and applicable codes, the Inspector will use appropriate means including, but not limited to, a 2-foot smart level and a tape measure.**

The Contractor shall form, place concrete and re-open each new curb ramp to full and safe pedestrian use by the 5:00 p.m. on Friday of the same week demolition/removal is performed. All curb ramp locations shall be open for pedestrian use on weekends and holidays. For the purpose of this project “full and safe pedestrian use” means removal of all formwork, restoration of pavement or placement of properly compacted temporary patch material in front of ramp, removal of construction debris and elimination of all other barriers to pedestrian travel. Should the Contractor fail to comply with the requirements of this section, the Contractor shall pay liquidated damages in the amount of $250 per day for each ramp location not in compliance.

Excavation for aggregate base beneath curb ramps shall be included in the bid item for roadway excavation.

Payment for the work required to construct the Concrete Curb Ramps, complete in place, shall be at the contract unit price per square foot and no additional compensation will be allowed therefor.

ITEM NO. 49 - TYPE B DROP INLET

Type B Drop Inlets shall conform to Sections 20, 24 and 38 of the Standard Specifications.

Type B Drop Inlets shall be cast in place, formed using wood or metal forms. Hand forming of concrete will not be allowed. Cast in place maximum wall thickness shall be 8-inches.

The grate shall conform for Section 38 of the Standard Specifications. The grate shall be installed so that either end of the grate can be lifted from the frame and removed by pulling parallel to the curb. The grate frame shall be installed between 1/2 and 1 inch from the face of the open back hood. All joints and all connections between the hardware (grate and hood) and the vertical walls of the drain inlet shall be grouted forming a smooth transition with a light broom finish.

The open back hood shall be cast iron or approved equal.

The vertical distance between the grate and the top of the hood shall be a minimum of 4" and a maximum of 8". If the top of the hood must be placed below the top of curb, there shall be a minimum 3" cover of concrete. One number 4 rebar shall be placed in the concrete and shall extend 12" on both sides of the hood. If the top of the hood is placed flush with the top of curb,
the Contractor shall embed hood in concrete, 4 inches from the back of the hood extending 6 inches beyond both ends of the hood.

Drain lead shall be connected to drain inlet with approved waterstop cast into side wall with non-shrink grout. Waterstop shall have a minimum of 2-inches of embedment on all sides. Pipe end shall be flush with the inside surface of the box.

Curb and gutter reconstruction shall match existing geometry and, at the Engineers discretion, extend up to 5 feet in length on either side of the inlet. The cost of curb and gutter reconstruction shall be included in the unit price for this item. Surface restoration shall be in accordance with the appropriate section of these Special Provisions. Pavement cutting shall be perpendicular and parallel to the centerline of the road. Surface restoration due to drain inlet removal and installation shall be paid for as part of this item. Gutter depressions, as shown on the plans, shall be fully compensated into the unit price paid per drainage inlet and no additional compensation will be allowed.

Payment shall be at the unit price bid per each and shall include full compensation for furnishing all materials, labor, tools, equipment, and incidentals and for doing all work necessary to construct Type B Drop Inlets, as shown on the Plans, as specified in these Special Provisions and as directed by the Engineer.

ITEM NO. 50 - 48” STORM DRAIN MAINTENANCE HOLE

ITEM NO. 51 - 60” STORM DRAIN MAINTENANCE HOLE

Maintenance Holes shall be constructed where shown on the plans or directed by the Engineer in conformance with Section 25 and Section 38 (DWG. S-70) of the Standard Specifications. Eccentric cones shall not be used unless specified on the Plans or by the Engineer.

Payment shall be at the unit price bid per each and shall include full compensation for furnishing all labor, materials, tools, equipment, incidentals and for doing all work necessary to construct maintenance holes as shown on the Plans, as specified in these Special Provisions and as directed by the Engineer.

ITEM NO. 52 - 12” STORM DRAIN PIPE

Where shown on the Plans, twelve inch (12”) diameter storm drain pipes shall be SDR 35 PVC as specified elsewhere in the Special Provisions. Drain lead connections to manholes shall be included in this item. Drain inlet lead and fittings shall be constructed to the details on the Plans and shall conform to Sections 10, 14, and 26 of the Standard Specifications and these Special provisions.

This item shall include all necessary trenching, bedding, backfilling, and pavement restoration involved in the installation of the storm drain pipe.

C-900 PVC for pipe and fittings shall be utilized for any pipe that has less than 18-inches of cover between the top of the installed pipe and the finish grade. If the depth of cover is less than 12
inches, the Contractor shall encase pipe with controlled density fill as specified elsewhere. When the Engineer approves shallow placement of DI leads requiring protective measures proposed by Contractor, all work associated with protective measures shall be considered as extra and paid per Section 8-10 of the Standard Specifications.

**Controlled Density Backfill** – Also known as Controlled Low Strength Material (CLSM) or ready Mixed Flowable Fill (RFF) as processed and distributed by the National Ready Mixed Concrete Association.

Material shall be a hand excavatable mixture of cement, pozzolan, coarse and fine aggregate and water which has been mixed in accordance with ASTM C 94.

Flowable – Material shall be flowable with a high slump, non-segregating consistency that readily flows and fills voids, congested areas, difficult to reach places, and that can be used for pipe zone fill, trench zone fill, pipe abandonment, structure backfill, and structure cavity fill.

Rapid Set – Material shall obtain early strength gain, to allow traffic load or other live loads on the fill in less than 7 days after placing the material.

Cement – Shall be type II in accordance with requirements of ASTM C 150.

Pozzolan – Shall be added to improve flowability and shall be type F in accordance with the requirements of ASTM C 618.

Aggregate – Coarse aggregate shall consist of well graded mixture of crushed rock with a maximum size aggregate of ½ inch. 100% shall pass the ½ inch sieve. Not more than 30% shall be retained by the ¼ inch sieve and not more than 12% shall pass the number 200 sieve. All material shall be free from organic matter and not contain more alkali, sulfates, or salts than the native materials at the site of work.

Admixtures – Air entrainment shall be added (minimum of 8%, maximum of 20%) to improve workability in accordance with ASTM C 260. Water reducing agent shall be added to improve workability in accordance with ASTM C 494.

Water – Shall be potable, clean, and free from silty organic matter, alkali, salts, or other impurities.
Density – Minimum density shall be 120 PCF, maximum density 135 PCF.

Compressive Strength – Minimum 28 day compressive strength shall be 50 psi and the maximum shall be 150 psi.

Care shall be taken to avoid floating the pipe, especially with pipe types other than concrete. Means shall be employed to assure a consistent flowline in accordance with plans and special provisions.

When connecting to a manhole:

A) If a precast manhole base is allowed, the Contractor shall install a flexible joint (bell and spigot or flexible coupling) a horizontal distance of 18-inches to 24-inches from the wall of the manhole.

B) All connections to the manholes not cast as part of the base shall be made by use of a coring machine and a "Cor-N-Seal" or approved equal flexible watertight coupling. The incoming pipe shall be cut, and the space between the inserted pipe and the seal shall be grouted smooth.

After mandrel inspection, the DI leads placed will be inspected by the City's Field Services Division utilizing a robotic T.V. camera device as specified elsewhere in these Special Provisions. It shall be the Contractor's responsibility to coordinate the T.V. inspection with the Engineer.

The lead invert elevations shown on the Plans are approximate only. It shall be the Contractor's responsibility to determine the final vertical alignment by means of locating potential conflicts prior to construction of the drain inlet, lead, or coring of the manhole. No deflections will be allowed in the lead unless otherwise approved by the Engineer. Guidelines for final profile of drain lead are as follows: The distance from the grate elevation to the top of the drain inlet base shall be between 4'-8" and 5' unless otherwise shown on the Plans or directed by the Engineer. The drain lead shall have a minimum slope of 0.0025 ft/ft unless otherwise approved by the Engineer. Unless otherwise stated herein, no additional compensation shall be paid to the Contractor for potholing, or altering drain inlet or lead elevations.

Included in this item is the construction of concrete collars connecting leads into other drainage structures.

For Class 4 Concrete Backfill as shown on the plans, the cost shall be assumed included in the unit price per linear foot of storm drain pipe and no separate or additional payment shall be made for its use.

This item shall include the cost of installing SDR 35 polyethylene pipe where shown on the plans and as directed by the Engineer. SDR 35 polyethylene (PE) pipe that conforms to the requirements of ASTM F714. The body of the pipe shall be manufactured from high density molecular weight polyethylene resin which conforms to ASTM D1248 and shall have a cell classification of 445574C as described in ASTM D3350. The inner wall of the pipe shall be light gray in color and have a minimum cell classification of 345444E under ASTM D3350.
Payment shall be at the unit price bid per linear foot of proposed storm drain pipe to install and shall include full compensation for furnishing all labor, materials, tools, surface restoration, equipment and incidentals and for doing all work involved in installing 12" storm drain pipe as shown on the Plans, as specified in these Special Provisions and as directed by the Engineer.

ITEM NO. 53 - INSTALL 1" WATER METER

This item shall consist of furnishing and installing water services from the water main to the point of service at the property. Each water service shall include furnishing and placing corporation stop, meter box, meter setter, backflow prevention assemblies, all required lateral pipe, and all other items to place and connect water services as shown on the Plans. The water services and their installation shall meet the applicable requirements of Sections 10, 27, and 38 of the Standard Specifications and these Special Provisions.

It is the Contractor's responsibility to locate the existing water service laterals and curb or corporation stops. All USA markings identifying water features will be verified by the Contractor. All cost associated with this work including all re-work if the USA markings are found to be incorrect shall be included in this item.

The Contractor is to place a 1" irrigation water service to the point of service. The City will provide and install a 1" meter after payment of meter fees in the amount of $546.00 (each) and a development fee of $3,134.23 (each). The Contractor is to provide and install an approved reduced pressure assembly in accordance with City cross-connection control policy and City standard drawing W-606.

Meter boxes shall be Christy B30 for 1-inch diameter meters, Christy B36 for 1 1/2" and 2" diameter displacement meters, and Christy N30 for 1 1/2" and 2" diameter turbine meters or approved equal. Same box for displacement or turbine meters. B30 and B36.

The Contractor shall reconnect the existing water service on the property owner's side of the meter box to the idler in the meter box so that the water customer's water service is in service when this item is complete.

When the existing main servicing the home is in the street Right-of-Way and the existing water service is located at the back of the sidewalk or curb, the Contractor shall place the new meter box adjacent to the existing water service curb stop so that the new service can easily be transferred to the existing service.

If there is an existing water meter to the property, the City's meter crew will remove the existing meter and place a meter in the new meter box. The Contractor shall contact the Department of Utilities at 808-4030 two days prior to transferring the service.

The Contractor shall remove and dispose of existing meter boxes to be removed and replaced. All meter boxes and appurtenances to be removed shall become the property of the Contractor and shall be disposed of at the Contractor's expense.

This item shall include the cost of saw cutting and repairing or replacing existing curb gutter, sidewalk or roadway section providing any new sod, shrubbery, fencing, and repair or replacement
of other existing improvements on private property that may be damaged as a result of the installation of the water services. The removal and replacement of on-site concrete patios and walkways, in order to construct this item, shall be paid for under a separate item.

The quantity of 1-inch diameter residential water services shown on the plans are for bidding purposes only. The unit price indicated will not be adjusted because the actual number of water services placed may vary from the quantity shown on the plans.

The Contractor shall make the arrangements for furnishing and applying water until the water meters have been installed by the serving utility.

Included in this item is the saw cutting, excavation, backfilling, and pavement restoration (6”AC/21.5”AB) necessary to install the 1” water service.

Payment shall be at the contract unit bid price for each water service and shall include full compensation for furnishing and installing all labor, materials, tools, equipment, incidentals and for doing all work involved with installing the water service, water meter and water meter fees as shown on the Plans, as specified in these Special Provisions and as directed by the Engineer.

ITEM NO. 54 - TUBULAR METAL HANDRAIL

Contractor shall install tubular hand rail where shown on the Plans, as directed by the Engineer, and in accordance with Section 83 of the State of California Standard Specifications and City Standard Specifications.

Payment shall be at the unit price bid per linear foot and shall include full compensation for furnishing all labor, materials, tools, equipment, incidentals and for doing all work involved in installing tubular hand rail as shown on the Plans as specified in these Special Provisions and as directed by the Engineer.

ITEM NO. 55 - CHAIN LINK FENCE AND GATE

Contractor shall install fence and gate where shown on the Plans, as directed by the Engineer, and in accordance with Section 13 of the Standard Specifications.

The chain link fences shall be constructed according to (DWG.T-90). Contractor shall store fence in a secure area under good conditions until time for reconstruction.

The fences shall be constructed to neat lines. Fence posts shall be placed vertical and be implanted firmly in the ground in a manner consistent with the original construction.

Where chain link fences are removed, the property must be protected by fencing at all times. Payment for temporary fencing shall be included in the cost of this item.

The Engineer shall determine the amount and exact limits of fence in the field. Measurement for payment shall be based upon the actual length of fence. No adjustment to the unit price bid for this item shall be made for any variation in the estimated quantity.
Payment shall be at the unit price bid per linear foot and shall include full compensation for furnishing all labor, materials, tools, equipment, incidentals and for doing all work involved in installing fence and gate as shown on the Plans as specified in these Special Provisions and as directed by the Engineer.

ITEM NO. 56 - LANDSCAPE IMPORT FILL MATERIAL

This item shall consist of furnishing and preparing Import Soil in conformance with Sections 10 and 35 of the Standard Specifications and as amended by these Special Provisions.

A. Landscape Import Fill Material definition: Fertile, friable soil containing less than 5% total volume of the combination of subsoil, refuse, roots larger than 1 inch diameter, heavy, sticky or stiff clay, stones larger than 1 inches in diameter, noxious seeds, sticks, brush, litter, or any substances deleterious to plant growth. The percent (%) of the above objects shall be controlled by source selection not by screening the soil. Topsoil shall be suitable for the germination of seeds and the support of vegetative growth. Imported Topsoil shall not contain weed seeds in quantities that cause noticeable weed infestations in the final planting beds. Landscape Import Fill Material shall meet the following physical and chemical criteria.
   i. Soil texture: USDA loam, sandy clay loam or sandy loam with clay content between 15 and 25%. And a combined clay/silt content of no more than 55%.
   ii. pH value shall be between 5.5 and 7.0.
   iii. Percent organic matter (OM): 2.0-5.0%, by dry weight.
   iv. Soluble salt level: Less than 2 mmho/cm.

B. The pH of saturated paste shall be between 5.5 and 7 without high qualitative lime content. The sodium absorption ratio (SAR) shall not exceed six and the electrical conductivity (ECe) of the saturation extract of this soil shall not exceed 2.0 milliohms per centimeter at 25 degrees centigrade. The boron content shall be no greater than one part per million as measured on the saturation extract.

C. Landscape Import Fill Material shall be a harvested soil from fields or development sites when possible. The organic content and particle size distribution shall be the result of natural soil formation. Manufactured soils where coarse sand, composted organic material or chemical additives has been added to the soil to meet the requirements of this specification section shall not be acceptable. Retained soil peds shall be the same color on the inside as is visible on the outside.

D. Landscape Import Fill Material for planting soil shall NOT have been screened and shall retain soil peds or clods larger than two inches in diameter throughout the stockpile after harvesting.

E. Stockpiled existing topsoil at the site meeting the above criteria may be acceptable but must be approved by the Engineer in writing.
Payment shall be at the unit price bid per cubic yard and shall include full compensation for furnishing all labor, material, tools, equipment, incidentals and for doing all work involved in furnishing and preparing landscape areas as shown on the Plans, as specified in these Special Provisions and as directed by the Engineer.

**ITEM NO. 57 - TREE PLANTING**

This item shall consist of furnishing, preparing and planting 15 Gallon Trees in conformance with Sections 10 and 35 of the Standard Specifications and as amended by these Special Provisions.

A. **Preparing of Planting Areas** shall conform to Section 35-5 of the Standard Specifications.

Soil shall be cultivated until the condition of the soil is loose and fine-textured to a depth of six inches (6") prior to installing imported soils. Soils shall then be cleared of all concrete, asphalt, and other construction debris and deleterious materials, and all stone and gravel larger than 1-inch (1") in diameter, that are brought to the surface as a result of cultivations. However, if subsoil in the profile consists of greater than 15% rock, gravel or other debris of any size by volume it shall be removed entirely and replaced with imported topsoil. Subsoil shall be compacted to 85 percent (85%) relative density prior to backfilling with imported topsoil.

B. **Weed Control** shall conform to Section 35-6 of the Standard Specifications.

C. **Trees and Planting Materials** shall conform to Section 35-7 of the Standard Specifications, except where noted.

1. **Trees** quality and size shall comply with current edition of “American Standard for Nursery Stock” as adopted by the American Association of Nurseryman.

2. **Plant Schedules** shown on the plans are for the Contractor's convenience only. The Contractor shall confirm all quantities and shall plant as required by the Planting Plan when discrepancies exist.

3. **Tree Stake** shall be pressure-treated lodgepole pine, eight-foot (8’) by two-inch (2") diameter.

4. **Nursery Stakes** shall be removed at the time of planting. No nursery stake shall be present prior to final acceptance unless other directed by the Landscape Architect.

5. **Tree Ties** shall conform to Section 35-7, paragraph “g” with the exception of the ties shall be rubber and attached per planting detail.

6. **Fertilizer Tablets** shall conform to Section 35-7, paragraph “d” and per planting detail.
7. **Backfill Mix** shall consist of imported topsoil. Soil Amendments for planting pits shall be 90% bark-based product, fir, and 0-1/4” in size, treated nitrogen having a 2-0-0 NPK ratio. The above rate is for bid purposes only.

8. **Mulch** shall conform to the applicable paragraphs of Section 35-8. Mulch area shall be as shown on plans. Mulch shall be at a three-inch (3”) finished depth at time of final acceptance by the City and shall be free of deleterious material.

9. **Percolation Tests** shall be required for 1 out of every 5 trees planted. Trees pits from each planting area of the project shall be tested for percolation. Tree pits shall be filled with water and the drainage rate observed. Percolation rate shall be a minimum of the depth of the tree pit within 24 hours. If percolation/drainage rate is less than that – mitigation measures shall be implemented as directed by the Landscape Architect.

**Payment** shall be made at the unit price bid per each tree planting and shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals and for doing all work involved in completing the Trees as shown on the plans, as specified in these Special Provisions and as directed by the Inspector.

**ITEM NO. 58 - PLANTING SHRUB AND GROUNDCOVER AREAS**

This item shall consist of furnishing, preparing and planting 1 Gallon and 5 Gallon Shrubs and Groundcover in conformance with Sections 10 and 35 of the Standard Specifications and as amended by these Special Provisions.

A. **Preparing of Planting Areas** shall conform to Section 35-5 of the Standard Specifications.

Soil shall be cultivated until the condition of the soil is loose and fine-textured to a depth of six inches (6”) prior to installing imported soils. Soils shall then be cleared of all concrete, asphalt, and other construction debris and deleterious materials, and all stone and gravel larger than 1-inch (1”) in diameter, that are brought to the surface as a result of cultivations. However, if subsoil in the profile consists of greater than 15% rock, gravel or other debris of any size by volume it shall be removed entirely and replaced with imported topsoil. Subsoil shall be compacted to 85 percent (85%) relative density prior to backfilling with imported topsoil. Topsoil adjacent to paved areas and/or curbs shall be graded so that after settlement, the soil will be three inches (3”) below the top of the adjacent paving or curb.

B. **Header** shall 2x4 Redwood color Benda Board made by Epic Plastics or approved equal. Install per manufacturer’s recommendations using plastic or metal stakes.

C. **Weed Control** shall conform to Section 35-6 of the Standard Specifications, except where noted.

1. **Granular Pre-emergent Herbicide** shall be Ronstar G Pre-emergent Herbicide or approved equal applied in all shrub and groundcover planter areas after the
completion of all planting and before installation of wood mulch at the rate as recommended by the manufacturer. Contractor shall provide proof of application or pre-emergent herbicide to the Engineer or Landscape Architect.

2. **Landscape Fabric installation shall be omitted.**

D. **Soil Preparation Materials shall be as per Section 35-8, paragraph “3” of the Standard Specifications and as per the recommendations of the Soil Management Report.**

E. **Soil Management Report**

1. **Soil Analysis Report** shall be paid for and completed by the Contractor. Soil analysis shall include the following: Soil Texture, Infiltration Rate, pH, Total Soluble Salts, Sodium, Percent Organic Matter, Recommendations.

F. **Planting Materials shall conform to Section 35-8 of the Standard Specifications, except where noted.**

2. **Shrubs and Groundcover plant** quality and size shall comply with current edition of “American Standard for Nursery Stock” as adopted by the American Association of Nurseryman.

3. **Plant Schedules** shown on the plans are for the Contractor's convenience only. The Contractor shall confirm all quantities and shall plant as required by the Planting Plan when discrepancies exist.

4. **Backfill Mix** shall amend imported topsoil.

5. **Fertilizer Tablets** shall conform to Section 35-8, paragraph “4.d” and per planting detail.

6. **Backfill Mix** shall consist of imported topsoil. Soil Amendments for planting pits shall be 90% bark-based product, fir, and 0-1/4” in size, treated nitrogen having a 2-0-0 NPK ratio. The above rate is for bid purposes only.

7. **Mulch** shall conform to the applicable paragraphs of Section 35-8. Mulch area shall be as shown on plans. Mulch shall be at a three-inch (3") finished depth at time of final acceptance by the City and shall be free of deleterious material.

G. **Hydroseeding** shall be as per Caltrans Standard Specifications.

Payment shall be made at the lump sum price bid and shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals and for doing all work involved in completing the Shrub and Groundcover Areas as shown on the plans, as specified in these Special Provisions and as directed by the Engineer or Landscape Architect.
ITEM NO. 59 - PLANTING SEED (TURF RESTORATION AREAS)

This item shall consist of furnishing and installing Planting Seed in conformance with Sections 10 and 35 of the Standard Specifications and as amended by these Special Provisions.

A. Grass seed shall be sowed at the rate (pounds per acre) specified by the manufacturer.

B. An even finish grade conforming to existing grades shall be maintained during seeding operations to ensure proper surface drainage with ridges and depressions removed.

Payment shall be made at the lump sum price bid and shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals and for doing all work involved in completing the Tree grate as shown on the plans, as specified in these Special Provisions and as directed by the Engineer or Landscape Architect.

ITEM NO. 60 - IRRIGATION

This item shall consist of furnishing and installing an Irrigation System as shown on the drawings in conformance with the applicable paragraphs of Sections 10 and 36 of the Standard Specifications and these Special Provisions.

A. Preconstruction Test of Existing Irrigation System—City and Contractor shall perform a preconstruction irrigation test prior to the start of construction. During the test all existing remote control valves shall be turned on with the irrigation controller (manually operation is not permitted). The following irrigation items shall be marked with flags and marking paint: valves, quick couplers, working heads marked blue and broken head marker yellow. All existing broken heads shall be repaired by the property owner unless specified as an item on the project plans or specifications. Any irrigation damaged during construction shall be repaired by the contractor as soon as possible and shall be at the contractor expense.

B. Electric Control Valves shall conform to Section 36-13 of the Standard Specifications. Electric control valves shall be per plan, or approved equal, and shall be constructed as specified in Section 10-50 of the Standard Specifications. Lawn and Shrub area valves shall be installed at grade.

i. Remote control valves shall be brass body, straight pattern, forward flowing and two-way solenoid operated. The internal control port of the valves shall be mechanically self-cleaning and automatically self-purging without the use of screens or filters. The diaphragm assembly shall be guided in all positions. Upon opening, the internal control port shall enlarge in size to purge and gradually reduce in size during closure to prevent water hammer. A manual flow stem to adjust the closing speed and allow for internal flushing shall be provided. A drip-tight resilient seated petcock shall be provided for manual opening without electricity. All valve porting shall be
internal without the use of exterior tubing. All valve components shall be corrosion proof, metallic and be serviceable from the top.

ii. Valve tags to be molded polyurethane with 2-inch by 3-inch printing area. Black lettering shall be imprinted by hot-stamp process. Both sides of the tag shall be numbered with Controller ID and numbering of valve tags shall coincide with controller sequencing. Model No. Maxi as manufactured by T. Christy Enterprise (714) 771-4142 or approved equal.

C. Drip Electric Control Valves shall conform to Section 36-13 of the Standard Specifications. Electric control valves shall be per plan, or approved equal, and shall be constructed as specified in Section 10-50 of the Standard Specifications and these Special Provisions. Shrub area valves shall be installed at grade.

i. Remote control valves shall be brass body, straight pattern, forward flowing and two-way solenoid operated. The internal control port of the valves shall be mechanically self-cleaning and automatically self-purging without the use of screens or filters. The diaphragm assembly shall be guided in all positions. Upon opening, the internal control port shall enlarge in size to purge and gradually reduce in size during closure to prevent water hammer. A manual flow stem to adjust the closing speed and allow for internal flushing shall be provided. A drip-tight resilient seated petcock shall be provided for manual opening without electricity. All valve porting shall be internal without the use of exterior tubing. All valve components shall be corrosion proof, metallic and be serviceable from the top.

ii. The filter shall be an in-line configuration. The filter will have a 1-inch Male National Pipe Thread (MNPT) inlet and outlet. The housing shall be molded of non-corrodible PVC, rated to 150 PSI. The filter shall be equipped with a 150-mesh stainless steel filter, so only clean water can be discharged through the device. The filter assembly must have removable cap for easy service and cleaning. The valve, filter and regulator assembly shall be rated for use up to 120 degrees F. The valve, filter and regulator assembly shall be manufactured by Hunter Industries Incorporated, San Marcos, California.

iii. Valve tags to be molded polyurethane with 2-inch by 3-inch printing area. Black lettering shall be imprinted by hot-stamp process. Both sides of the tag shall be numbered with Controller ID and numbering of valve tags shall coincide with controller sequencing. Model No. Maxi as manufactured by T. Christy Enterprise (714) 771-4142 or approved equal.

D. Anti-Siphon Remote Control Valve with Battery Operated Controller shall conform to Section 36-13 of the Standard Specifications. Electric control valves shall be per plan, or approved equal, and shall be constructed as specified in Section 10-50 of the Standard Specifications and these Special Provisions. Valves shall be installed per code.
i. The valve shall be a normally closed, electronically actuated, hydraulic, remote-control valve.

ii. The valve shall include an electric remote-control valve and atmospheric backflow pre-venter in one unit. The valve shall be equipped with a non-rising stem-type, manual flow control mechanism. This mechanism will be operable with a slotted screwdriver or with a removable flow-control handle. When specified for use with reclaimed water, a reclaimed water identifier handle shall be available.

iii. The standard solenoid shall be a 24 VAC unit with a 350-mA inrush current and 190 mA holding current at 60 cycles and a 370-mA inrush current and 210 mA holding current at 50 cycles. When specified, the unit shall be equipped with a DC latching solenoid for use with 12-volt battery-operated controllers. The solenoid shall be an encapsulated, one-piece unit with captive plunger. It shall be equipped with manual internal bleed capability to re-lease the upper chamber water to the downstream piping, allowing the valve to open. The valve shall have an internal manual bleed screw that provides an additional method for manual operation of the valve.

iv. The body and bonnet shall be molded of non-corrodible PVC. The diaphragm shall be equipped with a serrated disc to screen water-borne contaminants, preventing them from reaching the metering area, and bleed ports of the valve. A perforated diaphragm support ring shall fit into the valve body just below the diaphragm to relieve stress on the diaphragm when the valve is closed.

v. The valve shall have a ¾-inch or 1-inch Female National Pipe Thread (FNPT) inlet and outlet. When specified, the valve shall have a ¾-inch or 1-inch slip inlet and outlet. All valve parts shall be serviceable after installation by unscrewing the bonnet screws and removing the bonnet from the valve body to access the internal components. This may be accomplished without removing the valve body from the line.

vi. When specified, the unit shall be equipped with a DC latching solenoid for use with 12-volt battery-operated controllers. The solenoid shall be an encapsulated, one-piece unit with captive plunger.

E. Anti-Siphon Electric Drip Control Zone Kit shall conform to Section 36-13 of the Standard Specifications. Electric control valves shall be per plan, or approved equal, and shall be constructed as specified in Section 10-50 of the Standard Specifications and these Special Provisions. Valves shall be installed per code.

i. The kit shall consist of two separate, non-assembled parts; the electric valve and the filter/ regulator assembly. These two parts shall be assembled by the installer if specified.
ii. The valve shall be a normally closed, electronically actuated, hydraulic, remote-control valve. The valve will be capable of operating between 20 - 120 PSI with a flow range of between 0.5 - 15 GPM.

iii. The valve shall include an electric remote-control valve and atmospheric backflow preventer in one unit. The valve shall be equipped with a non-rising stem-type, manual flow control mechanism. This mechanism will be operable with a slotted screwdriver or with a removable flow-control handle. When specified for use with reclaimed water, a reclaimed water identifier handle shall be available.

iv. The standard solenoid shall be a 24 VAC unit with a 350-mA inrush current and 190 mA holding current at 60 cycles and a 370-mA inrush current and 210 mA holding current at 50 cycles. When specified, the unit shall be equipped with a DC latching solenoid for use with 12-volt battery-operated controllers. The solenoid shall be an encapsulated, one-piece unit with captive plunger. It shall be equipped with manual internal bleed capability to release the upper chamber water to the downstream piping, allowing the valve to open. The valve shall have an external manual bleed screw that provides an additional method for manual operation of the valve.

v. The body and bonnet shall be molded of non-corrodible PVC. The diaphragm shall be equipped with a serrated disc to screen water-borne contaminants, preventing them from reaching the metering area, and bleed ports of the valve. A perforated diaphragm support ring shall fit into the valve body just below the diaphragm to relieve stress on the diaphragm when the valve is closed.

vi. The valve shall have a ¾-inch Female National Pipe Thread (FNPT) inlet and outlet. All valve parts shall be serviceable after installation by unscrewing the bonnet screws and removing the bonnet from the valve body to access the internal components. This may be accomplished without removing the valve body from the line.

vii. The valve shall be rated for use up to 150 degrees F (65 degrees C).

viii. The filter/regulator shall be a combination filter and pressure regulator assembly. The filter/regulator will be capable of operating between 20 - 120 PSI with a flow range of between 0.5 - 15 GPM. The downstream pressure shall be 25 or 40 PSI depending on the specified model.

ix. The filter/regulator shall be available in an in-line configuration. All filter/regulator models will have a ¾-inch Male National Pipe Thread (MNPT) inlet and ¾-inch Female National Pipe Thread (FNPT) outlets.

x. The housing and regulator shall be molded of non-corrodible PVC, rated to 150 PSI (10.3 bars, 1034 kPa). All internal portions of the assembly shall
be of molded construction and shall have durable materials that are non-durable in severe conditions.

xi. The filter/regulator shall be equipped with a 150-mesh stainless steel filter, so only clean water can be discharged through the regulator. The filter assembly must have removable cap for easy service and cleaning.

xii. The filter/regulator shall be standard with a non-adjustable pressure-regulating device that is factory calibrated for the correct outlet pressure. The regulator shall be capable of reducing the outlet pressure to 25 or 40 PSI (1.7 or 2.8 bar; 170 or 280 kPa) depending on the specified model when the inlet pressure is 15 PSI (1.0 bars; 103 kPa) or greater than the regulated outlet pressure. The regulated downstream pressure shall remain constant regardless of variations in upstream pressure.

xiii. The filter/regulator shall be rated for use up to 120 degrees F.

xiv. The valve and filter/regulator shall be manufactured by Hunter Industries Incorporated, San Marcos, California or approved equal.

xv. The Battery Powered Irrigation Controller shall be a full-featured product for the purpose of battery-controlled irrigation management. The irrigation controller shall be the NUDE series with station count as identified on Landscape Irrigation drawings as manufactured by Hunter Industries Incorporated, San Marcos, CA 92078, (760) 744-5240 or approved equal.

xvi. Controller and Mounting - The controller shall be available in a plastic outdoor configuration: pre-assembled controller dimensions shall be 2.5” height with a 3.5” diameter. The enclosure shall be plastic for outdoor use, mounted to a DC solenoid inside a valve box. Approvals shall be CE, IP68, FCC, C-tick. The controller shall carry a conditional 2-year exchange warranty.

xvii. Controller Hardware - Control Display: The controller display shall be high resolution digital LCD.

xviii. Control Panel: The controller control panel shall have buttons to select values and functions and shall have a hard-reset feature returning existing settings to factory conditions. The controller shall have a sensor function to bypass a wired sensor.

xix. Controller Power: The controller shall be powered by 1 or 2 9V alkaline batteries. Each station output shall supply .05 mA 11 VDC for solenoid activation. Valves attached to controller shall have only DC latching solenoids as per landscape irrigation drawings. Station Outputs: The controller shall have the station wire output pairs as specified on the landscape irrigation drawings. Sensor Input: The controller shall have 1 sensor wire loop for a wired freeze sensor or rain sensor that interrupts
power from the irrigation controller to the valves when rainfall or freeze exceeds a preselect amount. The controller shall provide power from the controller to the sensor. The controller shall work with normally closed wired sensors. Pump/Master Valve Output: The controller shall have 1 built-in pump/master valve (P/MV) terminal output on 2, 4, or 6 station models. The P/MV output shall supply 0.28 Amps for valve activation.

xx. Controller Programming and Operational Software - Display setting shall read current day, month, year, and AM/PM or 24-hour clock. Programming: The controller shall have 3 independent programs with unique day schedules, start times, and station run times. The controller shall have 4 start times per program per day. The controller shall operate 1 program at a time. Schedule options shall include a weekly 7-day schedule that allows user to choose day(s) of week for desired watering; Interval watering shall be between 1 and 31 days; a 365-day calendar clock to accommodate true odd and even watering; Operation shall be available in automatic, semi-automatic and manual modes; All programming shall be accomplished by use of buttons with user feedback provided by an LCD display. Watering times shall be available from 0 minutes to 4 hours in 1-minute increments per station. The controller shall provide the option to turn off specific watering days Monday through Sunday to comply with any state and local regulations. The controller shall have a programmable rain delay that turns off the controller for a predetermined period from 1 to 99 days. The controller shall be equipped with a sensor bypass feature that allows the user to override a wired sensor that has suspended watering. The controller shall have a non-volatile memory circuit that holds program data indefinitely for easy retrieval.

xxi. Additional Features: The controller shall have a battery life indicator displaying estimated remaining battery life. The controller shall have seasonal adjust allowing for station run time adjustment from 10% to 150% in 10% increments to compensate for weather changes. The controller shall have test programming to verify each station running successfully. The controller shall have a diagnostic function to identify faulty solenoids or wire shorts.

F. Gate Valves shall be constructed of all brass as specified in Section 10-51 of the Standard Specifications and shall be lead free and shall be manufactured by Nibco, Model number T-113LF or approved equal and as shown on the plans and shall be installed at the locations as shown on the plans. Plastic control valves are not acceptable. Valves shall be installed at finished grade in a concrete valve box with locking cover.

G. Manifold Isolation Ball Valve shall be two-piece body, full port, with blowout-proof stem and PTFE Seats and constructed of all brass as specified in the Standard Specifications and shall be manufactured by Nibco, Model number T-FP-600A or approved equal and as shown on the plans and shall be installed at the locations as shown on the drawings.
i. **Material List:**

<table>
<thead>
<tr>
<th>Material</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Body</td>
<td>Forged Brass (CU &gt; 57%)</td>
</tr>
<tr>
<td>End Cap</td>
<td>Forged Brass (CU &gt; 57%)</td>
</tr>
<tr>
<td>Ball Seat</td>
<td>PTFE</td>
</tr>
<tr>
<td>Ball</td>
<td>Chrome Plated Brass – C46500 (1/4”-1”)</td>
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<tr>
<td></td>
<td>Stainless Steel 316 (1-1/2” – 4”)</td>
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<td>Steel, Plated</td>
</tr>
<tr>
<td>Handle</td>
<td>Stainless Steel</td>
</tr>
</tbody>
</table>

H. **Irrigation Valve Boxes** shall be plastic boxes with bolt down lids, marked irrigation and installed in conformance with Section 10-52 of the Standard Specifications and as shown on the plans.

i. Quick coupling valve boxes shall be round. The cover shall be heat branded with the letters "QCV," 2" high.

ii. Gate valve boxes shall be round. The cover shall be heat branded with the letters "GV," 2" high.

iii. Remote control valves shall be 12" X 18". The cover shall be heat branded with the letters "RCV" and the valve number in characters 2" high.

I. **Electrical** shall conform to Section 34 of the Standard Specifications.

J. **Irrigation Control Wires** shall conform to Sections 10-48 and 36-12 of the Standard Specifications. Trench for irrigation control wires through existing lawn shall be twenty-four inches (24") deep. Trenching for irrigation control wires through existing paved areas shall conform to Section 34-9 of the Standard Specifications.

i. Irrigation Control Wires shall be color coded to the use listed below and follow the colors associated with them.
   a. Full Rotor - Red Wire
   b. Part Rotor - Green Wire
   c. Spray Heads - Yellow Wire
   d. Bubblers - Blue Wire
   c. Common Wire - White Wire

K. **Quick Coupling Valves** shall be per plan or approved equal as specified in the plans. Quick coupling valve shall be constructed of brass with a locking yellow thermoplastic rubber cover with "DO NOT DRINK" markings. Quick Coupling valve shall be installed as shown on the plans in conformance with Section 10-53 of the Standard Specifications (the following shall be disregarded in the Standard Specifications “…single slot type with on inch (1") trenched pipe connection and one (1") key connection…” Valve box shall be installed with the top at finished
grade. **Four (4) quick coupler keys shall be provided to the City of Sacramento at the completion of the project.**

L. **Plastic Irrigation Pipe Fittings** shall conform to Section 10-46 of the Standard Specifications with the following addition: All fittings on the upstream of the valve shall be schedule 80 PVC and all the fittings downstream of the irrigation valve shall be schedule 40 PVC.

M. **Main Line Pipe** shall conform to Section 10-44 of the Standard Specifications and be amended as follows: Main line shall be schedule 40 solvent weld for lines 2" and smaller. Main line pipes 2" and larger shall have concrete thrust blocking in conformance with Section 27-6 and Standard Drawing No. “W-103” of Section 38 of the Standard Specifications. The contractor shall pressure test the irrigation main line with the inspector present. The pressure test shall consist of the contractor pressurizing the mainline to 150 PSI for two hours with zero pressure loss with either the Inspector or Landscape Architect present.

N. **Lateral Line Pipe** or pipe on the discharge side of the irrigation control valve shall be Class 200 solvent weld PVC pipe and shall conform to Section 10-44 of the Standard Specifications, except as previously amended.

O. **Trench Backfill** shall be installed at no more than 6” lift and each lift shall be compacted to 85% relative density in landscaped areas and compacted to 95% within future paving areas. Mainline trenches shall also have 3” of sand below the mainline and 6” of sand above the conduit.

P. **PVC Primers and Solvent welded** - PVC pipes will require the following primer and solvent glue applications. Primer shall consist of Weld-On P-70 Industrial Grade Primer and the PVC Solvent Cement shall be Weld-On 711 Heavy Bodied Cement, or approved equal. The primer and solvent cement shall be installed per manufactures specifications.

O. **Overhead Spray Sprinklers**

i. Pop-up spray sprinkler shall include Seal-A-Matic™ (SAM) check valve and a 30-psi pressure regulating device. These units shall be identifiable from the top with “SAM-PRS” marking printed on the cover. The check valve shall prevent low head drainage of up to 14 feet of head. The 30-psi pressure regulating device shall prevent high pressure operation of the nozzle that causes water waste and undesirable performance by regulating the nozzle operating pressure to 30 psi for inlet pressures from 35 psi to 100 psi. Below 35 psi the pressure loss shall not exceed 6 psi. Pop-up shall include Flow-Shield™ Technology (F) to save water, preserve system hydraulics to maintain proper operation throughout the irrigation zone, provide protection against plant material loss as a result of excessive run-off when a nozzle has been removed. Flow-Shield™ Technology shall provide a 2 gpm maximum, vertical water jet visible from +200’ line of sight when a nozzle has been removed. Height and low flow of vertical water jet shall
cause water to dissipate during descent reducing puddles and run-off. Flow-Shield™ Technology shall be an integral part of the pop-up stem.

ii. Nozzles shall have a fixed arc as per drawings and shall be capable of covering the radius at 30 psi specified on the irrigation equipment legend. The nozzles shall have precipitation rates matched across sets and across patterns. The plastic MPR Nozzle shall be constructed of UV-resistant plastic. The radius adjustment screw shall be constructed of stainless steel. The nozzle shall accept the non-clogging 1800 Series filter screens to allow for radius adjustment. The Plastic MPR Nozzles shall be as manufactured by Rain Bird Corporation, Azusa, California or approved equal.

R. Overhead Rotating Stream Spray

i. Pop-Up body shall be pressure-regulated, have factory installed drain check valve, and be available in height identified per drawings. 6" Pop-Up model shall have: retracted height of 8.75 inches; Pop-up height of 6-inches; exposed diameter of 2.25-inches. The pop-up body shall have a 5-year warranty. Pop-up body Cap: The Pro-Spray cap shall be made of a UV resistant ABS material. Pressure-regulated models shall be color-coded for field identification and shall have a brown cap with “PRS40” marked on the top; When specified as factory-installed check valve, the cap shall have “CHECK VALVE” marked on the top. Pop-up Seal: The Pro-Spray shall have a pressure-activated, chemical and chlorine resistant, UV stable wiper seal that cleans debris from the riser while it retracts; The seal shall be molded around a rigid plastic ring to prevent seal deformation; The seal shall prevent the pop-up from sticking in the up position; The seal shall seal the riser stem to the cap under normal operating pressures; The seal shall be removable from the cap for easy service and be replaceable. Pop-up Body: The body of the Pro-Spray shall be constructed of corrosion and UV-resistant ABS; Models in 6 and 12-inches shall be available with a ½-inch FNPT side inlet option; The inlet size shall be ½” thread. Pop-up Riser: The riser of the sprinkler shall be constructed of abrasion and UV-resistant ABS: The riser shall be adjustable for pattern alignment using a two-piece ratchet mechanism; The riser shall be compatible with female-threaded nozzles; A stainless steel spring shall be assembled with the riser for positive retraction when the irrigation cycle is complete. Pop-up Flush Plug: The Pro-Spray shall have a factory-installed, removable flush plug with a pull-up tab that shall prevent debris from entering the sprinkler during installation; Material: polyethylene. Pop-up Check Valve: The Pro-Spray shall have the option of including either a factory-installed or field-installed drain check valve; The standard Pro-Spray models with check valve shall check up to 10-feet in elevation change; The pressure-regulated Pro-Spray models with check valve shall check up to 14-feet in elevation change; When specified with the check valve, the cap shall have “CHECK VALVE” marked on the top. Pop-Up reduce flow option: Pressure-regulated Pro-Spray models with check valve shall include the option of a factory-installed feature installed in the riser to reduce flow in the event of a missing nozzle. Pop-up Operation
Pressure: The pop-up shall operate from 15 to 100 psi. To activate the pressure-regulator, a minimum of 10 psi differential is required to achieve the desired output pressure. Pop-up Pressure Regulation: The sprinkler shall have a pressure-regulating device as an integral part of the pop-up riser. The specified models will prevent fogging or misting of the nozzle spray pattern by maintaining a constant outlet pressure of 40 PSI with inlet pressures of up to 100 PSI, regardless of the nozzle installed. Pop-up System Flushing: The flush plug shall allow the system to be flushed before installing the nozzle; The flush plug shall open as the stem extends and close when the stem is in the retracted position, prevent debris from entering the riser; The flush plug shall have directional flushing action that allows the water to escape in only one direction; When specified with the low flow feature, the flush plug shall include a spacer to keep the feature deactivated for a complete system flush. Pop-up Drain Check Valve: For standard Pro-Spray models, the check valve will hold up to 10-feet of elevation; For pressure-regulated models, the check valve will hold up to 14-feet of elevation. The check valve can be factory or field-installed in pop-up models. Low Flow Technology: In the event of a missing nozzle, the low flow feature shall reduce the flow from the riser to a low-flow 10-feet tall stream indicating the need for maintenance.

ii. Nozzles shall be available in a 13-21-foot radius when operating at 25-55psi and with an approximate precipitation rate of 0.4 inches and hour. Plastic Material Description: The adjustable orifice shall be manufactured from polyurethane and acetal plastic materials for durability and adjustability; The acetal material shall have UV stabilizers for outdoor applications. Metal Component Materials: The radius adjustment screw, arc ring, spring, and internal collar shall be made of stainless steel. The stator that drives the speed of rotation inside the silicone chamber shall be made of brass. Filter Screen Description: Each MP Rotator shall come with a detachable filter screen. The filter screens shall be made of polypropylene. Screen mesh size shall be 40 mesh. Color Description: Each MP Rotator model shall have its own designated color scheme. Nozzle Threads: shall be able to be installed in pop-up bodies having a 5/8-27 UNS male threaded stem at all common pop-up heights. Viscous Drive: The viscous fluid used to maintain the speed of rotation of the MP Rotator shall be made of a silicone material; The silicone chamber shall be sealed with EPDM rubber seals; The brass stator inside the silicone chamber shall control the speed of rotation. Operating Pressure: The MP Rotator shall operate between 25-55 psi; The recommended operating pressure is 40 psi. Flow Rates: The flow rates shall be as specified on the drawings; As the arc and radius are adjusted, the flow rate shall change to maintain matched precipitation. Radius Description: The radius of throw shall depend on the MP Rotator model; At the recommended 40 psi operating pressure, full or part circle sprinklers shall be capable of up to 25% radius reduction using a stainless steel radius adjustment screw; The radius reduction screw shall have a slip clutch mechanism to prevent internal damage if turned past the minimum or maximum radius settings; The radius reduction screw shall reduce the
pressure and flow upstream of the adjustable orifice thereby maintaining stream integrity. Arc Adjustment: The part circle sprinkler shall have an infinitely adjustable arc from 45° to 105°, 90° to 210° or between 210° to 270° using the stainless steel arc ring depending on the model selected; The full circle sprinkler shall irrigate a full 360°; The 45° to 105° model shall not require coverage from adjacent sprinklers closer than 3’ from the head; Arc adjustment shall be effective only while the sprinkler is popped up and shall be ineffective when the sprinkler is popped down; When turned past the minimum or maximum arc limits the adjustment mechanism shall have a ratcheting action to prevent internal damage. Application Rate: shall produce and maintain a matched precipitation rate no greater than 0.6” per hour throughout the arc adjustment range and radius adjustment range, (up to 25% of radius reduction), when spaced at 50% of wetted diameter. Double-pop: When installed in a pop-up sprinkler body, the MP Rotator rotor shall pop-up after the body stem is fully extended. Upon decreasing pressure, the MP Rotator rotor shall retract before the retraction of the sprinkler body stem; The MP Rotator itself shall pop-up at approximately 15 psi (1.0 bar; 100 kPa).

S. Drip shall be installed at the locations shown on the plans, in conformance with Section 38 of the Standard Specifications. Drip shall be the type and model as shown on the plans.

T. Flush Valve shall be installed at the locations shown on the plans, in conformance with Section 38 of the Standard Specifications. Flush valve shall be the type and model as shown on the plans.

U. Air Relief Valve shall be installed on at highest point of lateral on each drip valve, in conformance with Section 38 of the Standard Specifications. Air Relief Valve shall be Rain bird, Model #ARV-050.

V. Ball Valve Assembly shall be installed at the locations shown on the Plans. Ball Valve Assembly shall be constructed of all brass as specified in Section 10-51 of the Standard Specifications and shall be the type and model as shown on the plans. Plastic control valves are not acceptable. Valves shall be installed at finished grade in a concrete valve box with locking cover.

W. Battery Operated Controller

  i. General - The Battery Powered Irrigation Controller shall be a full-featured product for the purpose of battery-controlled irrigation management. The irrigation controller shall be the NODE series with station count as identified on Landscape Irrigation drawings as manufactured by Hunter Industries Incorporated, San Marcos, CA 92078, (760) 744-5240 or approved equal.

  ii. Controller and Mounting - The controller shall be available in a plastic outdoor configuration: pre-assembled controller dimensions shall be 2.5”
height with a 3.5” diameter. The enclosure shall be plastic for outdoor use, mounted to a DC solenoid inside a valve box. Approvals shall be CE, IP68, FCC, C-tick. The controller shall carry a conditional 2-year exchange warranty.

iii. Controller Hardware - Control Display: The controller display shall be high resolution digital LCD.

iv. Control Panel: The controller control panel shall have buttons to select values and functions and shall have a hard-reset feature returning existing settings to factory conditions. The controller shall have a sensor function to bypass a wired sensor.

v. Controller Power: The controller shall be powered by 1 or 2 9V alkaline batteries. Each station output shall supply .05 mA 11 VDC for solenoid activation. Valves attached to controller shall have only DC latching solenoids as per landscape irrigation drawings.

vi. Station Outputs: The controller shall have the station wire output pairs as specified on the landscape irrigation drawings.

vii. Sensor Input: The controller shall have 1 sensor wire loop for a wired freeze sensor or rain sensor that interrupts power from the irrigation controller to the valves when rainfall or freeze exceeds a preselect amount. The controller shall provide power from the controller to the sensor. The controller shall work with normally closed wired sensors.

viii. Pump/Master Valve Output: The controller shall have 1 built-in pump/master valve (P/MV) terminal output on 2, 4, or 6 station models. The P/MV output shall supply 0.28 Amps for valve activation.

ix. Controller Programming and Operational Software - General: Display setting shall read current day, month, year, and AM/PM or 24-hour clock. Programming: The controller shall have 3 independent programs with unique day schedules, start times, and station run times. The controller shall have 4 start times per program per day. The controller shall operate 1 program at a time. Schedule options shall include a weekly 7-day schedule that allows user to choose day(s) of week for desired watering; Interval watering shall be between 1 and 31 days; a 365-day calendar clock to accommodate true odd and even watering; Operation shall be available in automatic, semi-automatic and manual modes; All programming shall be accomplished by use of buttons with user feedback provided by an LCD display. Watering times shall be available from 0 minutes to 4 hours in 1-minute increments per station. The controller shall provide the option to turn off specific watering days Monday through Sunday to comply with any state and local regulations. The controller shall have a programmable rain delay that turns off the controller for a predetermined period from 1 to 99 days. The controller shall be equipped with a sensor bypass feature that allows
the user to override a wired sensor that has suspended watering. The controller shall have a non-volatile memory circuit that holds program data indefinitely for easy retrieval.

x. Additional Features: The controller shall have a battery life indicator displaying estimated remaining battery life. The controller shall have seasonal adjust allowing for station run time adjustment from 10% to 150% in 10% increments to compensate for weather changes. The controller shall have test programming to verify each station running successfully. The controller shall have a diagnostic function to identify faulty solenoids or wire shorts.

X. Irrigation Sleeves – Shall conform to the Standard Specifications 36-8. The minimum diameter of the sleeve shall be at least two times the diameter of the conduit going through the sleeve. The sleeve shall extend a minimum of 1’ beyond the edge of the paving.

Y. Existing Mainline and electrical conduits: It’s the contractor’s responsibility to locate the irrigation mainline and electrical conduits with a locator prior to the start of construction.

Payment shall be made at the lump sum price bid and shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals and for doing all work involved in completing the Irrigation System as shown on the plans, as specified in Section 36-25 of the Standard Specifications, in these Special Provisions and as directed by the Inspector.

ITEM NO. 61 - IRRIGATION BACKFLOW PREVENTION DEVICE

This item shall consist of furnishing and installing an Irrigation vacuum breaker assembly as shown on the drawings in conformance with the applicable paragraphs of Sections 10 and 36 of the Standard Specifications and these Special Provisions.

A. The Reduced Pressure Principle Backflow Preventer shall be certified to NSF/ANSI 61 shall be ASSE® Listed 1013, rated to 180°F, and supplied with full port ball valves. The main body and access covers shall be low lead bronze (ASTM B 584), the seat ring and all internal polymers shall be Noryl™ and the seat disc elastomers shall be silicone. The first and second checks shall be accessible for maintenance without removing the relief valve or the entire device from the line. If installed indoors, the installation shall be supplied with an air gap adapter and integral monitor switch. The Reduced Pressure Principle Backflow Preventer shall be a ZURN WILKINS Model 975XL2SE.

B. Standards Compliance:

i. ASSE® Listed 1013
ii. IAPMO® Listed
iii. CSA® Certified B64.4
iv. AWWA Compliant C511
v. Approved by the Foundation for Cross Connection
vi. Control and Hydraulic Research at the University of Southern California
vii. Meets the requirements of NSF/ANSI 61* (0.25% MAX. WEIGHTED AVERAGE LEAD CONTENT).
viii. UL® Classified (less shut-off valves or with OS&Y valves)
ix. C-UL® Classified

C. Materials:

<table>
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<tr>
<th>Component</th>
<th>Material</th>
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<tr>
<td>Main valve body</td>
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</tr>
<tr>
<td>Access Covers</td>
<td>Low Lead Cast Bronze ASTM B 584</td>
</tr>
<tr>
<td>Fasteners</td>
<td>Stainless Steel, 300 Series</td>
</tr>
<tr>
<td>Elastomers</td>
<td>Silicone (FDA Approved); Buna Nitrile (FDA Approved);</td>
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<tr>
<td>Polymers</td>
<td>Noryl</td>
</tr>
<tr>
<td>Springs</td>
<td>Stainless Steel, 300 Series</td>
</tr>
<tr>
<td>Ball Valve Handles</td>
<td>Stainless Steel</td>
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D. Features:

<table>
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</thead>
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<td>175 PSI</td>
</tr>
<tr>
<td>Max. working water temp.</td>
<td>180°F</td>
</tr>
<tr>
<td>Hydrostatic test pressure</td>
<td>350 PSI</td>
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<tr>
<td>End connections threaded</td>
<td>ANSI B1 20 1</td>
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</tbody>
</table>

E. Irrigation backflow prevention device shall be enclosed with backflow preventer cage, Placer Waterworks Model #PW/E1X- (##) or approved equal. Size as required. Available through Placer Waterworks (916) 773-2959, FAX (916) 773-2958.

Payment shall be made at the unit price bid per each irrigation vacuum assembly and shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals and for doing all work involved in completing the Irrigation Backflow Prevention Device as shown on plans, as specified in these Special Provisions and as directed by the Inspector.

ITEM NO. 62 - TREE ROOT WATERING SYSTEM

This item shall consist of furnishing and installing root barrier in conformance with Sections 10 and 35 of the Standard Specifications and as amended by these Special Provisions.

A. The Tree Root Watering system shall consist of a perforated polyethylene cylinder in a 36” length and a width of 4”. The rigid mesh material shall support the horizontal movement of water and air into the root zone and adjacent soil. The cylinder.

B. The Tree Root Watering System shall be integrated with a bubbler and check valve. The factory-assembled system shall come preconfigured with swing assemblies and/or spiral barbed fitting.
C. The Tree Root Watering System shall support an extra-wide molded collar to provide convenient access to the bubbler and drip line fastener. It shall support a locking grate cover to help deter vandalism.

D. Tree Root Watering System shall be Brand and Model specified on drawings or approved equal and shall be installed per the manufacturer’s specifications.

Payment shall be made at the unit price bid per each and shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all work involved Tree Root Watering System per manufacturer’s specs, as specified in these Special Provisions and as directed by the Landscape Architect.

ITEM NO. 63 - ELECTRIC AUTOMATIC CONTROLLER

This item shall consist of furnishing and installing an Electric Automatic Controller as shown on the plans in conformance with Section 36 of the Standard Specifications and these Special Provisions.

A. General

1. Controller shall be as called out on the drawings and as per these technical specifications.

2. Controller(s) shall be the Calsense model CS3000 irrigation controller as indicated on the drawings, and shall be installed per manufacturer’s specifications, as shown on the drawings, and as specified herein.

3. The irrigation controller shall have a 10-year, limited warranty.

4. The irrigation controller shall have a large 5.7 inch backlit, ¼ VGA, LCD, sunlight readable display where information can be viewed on the same screen, and with a scrolling side menu design that makes programming intuitive and easy to follow.

5. The controller shall be available in multiple station counts including 8, 16, 24, 32, 40 or 48 stations. If less than 48 stations are purchased initially, additional stations can be added at any time in the field using 8-station kits.

6. Controller software upgrades shall occur via the internet transparently and at no charge.

7. The controller shall have unlimited programs known as Station Groups which can water individually or concurrently to maximize irrigation system capacity and reduce watering time.
8. The controller shall have the ability to assign landscape details as plant material, head type, soil type and exposure to each Station Group to simplify programming of stations with similar characteristics. Each group shall include a variety of other settings including irrigation schedule, percent adjust factor, line-fill times and on-at-a time rules.

9. The controller shall support up to four mainlines simultaneously for managing flow.

10. The controller shall support up to 12 points of connection shared among controllers.

11. The controller shall support up to 3 flow sensors and 3 master valves in a bypass configuration so as to accurately measure and read the overall range of station flow rates from the lowest flowing station in GPM to the highest flowing station in GPM, using the 2-Wire option and the 2-Wire, POC decoders for all 3 flow devices and master valves.

12. The controller shall automatically calculate cycle and soak scheduling to water each station for a fixed cycle time and allow the water to soak in between cycles, maximizing infiltration and minimizing runoff.

13. The controller shall have a water budget feature that displays monthly water volume allotments in either HCF or gallons for each of the 12 calendar months labeled as January thru December. This monthly guideline shall be calculated three ways, either directly entered, calculated by the controller using a yearly budget and dividing that out to the 12 months proportionately using built-in historical ET, or by calculating the monthly numbers using total square footage and a user selected percent of historical ET.

14. The water budget shall be available per POC controlled and programmed for either every month or every other month pre-programmed as date ranges. If the expected water use for the period exceeds the water volume budget, the user shall be notified with an alarm before the period ends so changes to the program can be made. The controller shall not terminate irrigation automatically in this process, or if selected as an option, the controller shall proactively and automatically decrease the scheduled irrigation for each station group using the percent reduction programmed, when approaching the set water budget limit with notification of said action.

15. The controller shall have a wide range of water reports and diagnostics available directly at the controller and shall include: A summary of all usage for each irrigation mainline; Usage for each point of connection connected to the mainline; Station-by-station usage; A complete station-by-station history which includes the date and start time of each cycle, programmed minutes, programmed inches, number of cycles, actual flow rate, expected flow rate, and any alerts or issues that occurred during irrigation; Unscheduled water usage.
and non-controller water usage including quick coupler use and bleeding valves manually.

16. The irrigation controller shall have three separate mainline break settings available for proper flow detection of catastrophic issues without interfering with standard irrigation practices and shall be programmed for 1.) ‘during irrigation’, 2.) ‘master valve override’ functions, and 3.) ‘all other times’

17. The controller shall have flow management capability as a standard feature whereas the controller shall learn each station’s expected GPM flow rate automatically at night over several irrigations, and use the mainline GPM capacity programmed, to operate up to six (6) valves at the same time to shorten the water window.

19. The controller shall have the ability to accommodate multiple types of irrigation schedules including irrigating even days, odd days, prescribed days of the week, and interval scheduling ranging from every other day up to every four weeks.

20. Several controllers, up to twelve shall be able to share one or multiple points of connection with multiple flow sensors and master valves. This option shall allow several controllers without the use of a central control computer to share the irrigation programs and flow information for: Monitoring of system flows; Shortening water windows by maximizing the number of valves on without exceeding system flow capacity; Turning OFF valves with excessive flow rates due to broken lateral lines; Tracking water usage and comparing to a water budget; Eliminating relays when sharing pumps and master valves.

21. When more than one controller is sharing one or multiple points of connection and the controllers are communicating to each other through hardwire or radio, the data shall be distributed as changes occur making the data available from any controller on the FLOWSENSE™ chain so that the user shall be able to view and program a controller’s information from any other controller in the group.

22. The controller shall provide permanent memory stores of all controller programming and setup data, including date and time, in non-erasable memory.

23. The controller shall have the ability to create and program an unlimited number of manual programs which allow the user to schedule stations to run for a preset time, up to 6 - times per day, for hydro-seeding, new planting and fertilization scheduling.

24. Electrical alerts, such as short circuits and no currents, shall be standard to help the user troubleshoot field wiring and solenoid problems.

25. The irrigation controller shall provide an optional light feature to be used to operate up to four light, gate or water feature relays.

B. Pedestal Enclosure
1. The enclosure shall be of a vandal and weather resistant nature manufactured entirely of 304-grade stainless steel, and the top shall be 12 gauge and the body 14 gauge. The main housing shall be louvered upper and lower body to allow for cross flow ventilation. A stainless-steel backboard shall be provided for the purpose of mounting electronic and various other types of equipment. The stainless-steel backboard shall be mounted on four stainless steel bolts that will allow for easy removal of the backboard.

2. The 38-inch height with flip top shall provide easy access for programming from a standing position under normal installations.

3. The pre-assembled vandal resistant enclosure factory pre-assembled and supplied by controller manufacturer shall come complete with 24 VAC lightning and surge protection and all terminals shall be factory labeled. The pre-assembled enclosure shall come provided with an On/Off switch to isolate the controller along with a GFI receptacle. Specific radio antenna(s) shall be pre-mounted and connected on enclosure. The enclosure shall include 2-7/8”, 1-1/2” thick, 6-pin cylinder, die-cast steel padlock with unique shackles design.

4. Factory pre-assembled enclosure with controller shall carry a full UL listing.

5. Controller manufacturer shall offer a double-wide, pre-assembled vandal resistant enclosure, 38-inch height with flip top for two controller placements side by side. All necessary wiring between the two controllers in order to share central communications and/or flow and weather data shall be pre-wired by manufacturer for easy installation.

6. The factory pre-assembled enclosures shall carry a ten (10) year limited warranty.

C. Grounding

1. Grounding shall consist of one 5/8-inch x 8-foot copper rod installed per irrigation controller and where multiple controllers are not connected to the same ground rod.

2. The top of each rod shall be installed inside a 10-inch round valve box, with the rod installed as close as practical to the controller. If a pedestal enclosure is used, the ground rod may be installed through the pedestal base. Under no circumstances shall the rods be shortened.

3. A #6 AWG solid copper wire shall be used to connect from the ground lug of the transient protection board to the copper rod. Brass clamps specifically designed to secure the copper wire to the grounding rod shall be used. There shall be no kinks or sharp bends in the wire.
4. Each wire may be wrapped around the rod and brazed in place as an alternative to clamping. Braze the wire to the rod for at least one circumference of the rod.

D. Weather Monitoring

1. The manufacturer of the central control system shall provide real-time ET and rain data using multiple, state-of-the-art, high resolution numerical weather data provided by NOAA, all without subscription charges. Unlike other services which use only ground-level weather stations, the NOAA-modeled data shall allow weather to be triangulated to each customer’s unique latitude, longitude and elevation, ensuring accuracy even within localized microclimates. ET shall be calculated using the latest FAO Penman-Monteith method which shall use solar radiation, temperature, wind speed, relative humidity and other input parameters.

2. The controller shall be able to interface with an on-site ET gage able to measure daily localized, evapo-transpiration and log the amount of inches lost each day without the use of a central computer.

3. The ET measuring device shall be powered by the selected field controller. ET is measured directly in 0.01” increments and pulses from the gage are sent directly to the field controller.

4. The controller shall be able to store and display daily, on-site ET in a 28-day table which is updated every 24 hours.

5. The user shall be able to view over 100 selections of built-in historical ET tables or program monthly historical ET data for a given area directly, to be used as a backup for that night’s calculation in case the ET gage malfunctioned, or the real-time value sent normally through the Internet failed.

6. The user shall be able to cap the amount of daily ET used by the controller for that night’s calculation by selecting a percent of historical ET for the given area to be used instead of the actual ET received.

7. The irrigation controller shall have the capability to calculate station run times using the average of the last 7 days of ET instead of using a single ET value to calculate the next scheduled, station run times.

8. The controller shall be able to interface directly with a Tipping Rain Bucket and shall accurately measure rainfall in 0.01” increments by means of a tipping and emptying device mounted below the center of the collection dish.

9. The rain-measuring device shall be wired using the 25-feet of 2-conductor cable supplied with the Tipping Rain Bucket to the selected field controller. The controller shall have a weather option able to interface with the device. The cable shall be installed in conduit and the connections are to be made at a terminal strip inside the enclosure. Maximum length of cable run shall be 1000
feet using Paige P7171D communication cable when necessary. 18-gauge multi-conductor irrigation wire in conduit may be used for runs under 100-feet. Runs shall be direct pulls without splices.

10. The irrigation controller shall provide the following programming parameters for rain: Stop Irrigation after x.xx inches; Maximum Rain in One Hour is x.xx inches; Maximum Rain in 24 Hours is x.xx inches.

11. Wind speed shall be monitored by the irrigation controller with the weather option interface and the wind gage installed. The controller shall pause irrigation once the wind speed exceeds a user-set limit. As wind subsides, the controller shall resume irrigation where it left off. Winds from 0-to 135-MPH shall be accurately read. Data from one wind gage shall be shared amongst a group of controllers making up a FLOWSENSE™ chain.

12. The wind gage device shall be wired using the 60-feet of 2-conductor cable supplied with the device to the selected field controller. The cable shall be installed in conduit and the connections are to be made at a terminal strip inside the enclosure. Maximum length of cable run shall be 1000 feet using Paige P7171D communication cable when necessary. 18-gauge multi-conductor irrigation wire in conduit may be used for runs under 100-feet. Runs shall be direct pulls without splices.

E. Flow Monitoring

1. The flow sensor used shall be supplied by the same manufacturer as the irrigation controller and shall comply with the following:

a. Operation - Flow Meter consists of an impeller and a sensing device, which measures the flow in gallons per minute (GPM). The irrigation controller learns an average GPM value for each station. If a broken head or riser causes the flow to exceed the learned flow rate by a selected percent, the irrigation controller shuts off that station automatically and advances to the next station. When irrigation has finished, the controller marks that one station with a HIGHFLOW alert on the display. During the next irrigation, that station will again come on and a measurement will be taken, if the flow still exceeds the learned average flow for that station, the controller instantly turns it off and again displays a HIGHFLOW alert.

b. Calsense Irrigation Controllers monitor the flow meter continuously and will close a master valve if at any time the flow exceeds the user selected Mainline break number. A Flashing MAINLINE BREAK alert on the irrigation controller will alert the user to the problem. A normally closed or normally open master valve can be used. No irrigation will occur until the MAINLINE BREAK alert is cleared by the user.
c. If a valve does not open or has a measured flow rate below the flow meter minimum, the irrigation controller will flash a NO FLOW alert on the display.

d. If the backflow preventer or water meter has been turned off, every station on the controller will have a NO FLOW alert.

e. Parameters (1", 1.25", and 1.5" size, Bronze): Accuracy: +/- 1% of full scale; Linearity: +/- 0.7%; Repeatability: +/- 0.7%; Flow Range: 0.5 to 15 feet/second; Max Pressure: 400 PSI @ 150F (65.5 C).

f. Parameters (1.5", 2", and 3", PVC): Accuracy: +/- 1% of full scale; Linearity: +/- 0.5%; Repeatability: +/- 0.5%; Flow Range: 1 to 30 feet/second; Max Pressure: 100 PSI @ 68F (20 C)


g. Parameters (2" size, Bronze): Accuracy: +/- 1% of full scale; Linearity: +/- 1%; Repeatability: +/- 1%; Flow Range: 1 to 30 feet/second; Max Pressure: 200 PSI @ 150F (65.5 C).

2. Each flow sensor shall have the following characteristics: Housing to be a Sch 80 polyvinyl chloride tee or bronze tee; Have a pulsing output that operates at 9VDC and a pulse rate that is proportionate to the GPM; Fully compatible with the internal interface at each field controller; Powered by the controller; Replaceable metering insert; Shall feature a six-bladed design with a proprietary, non-magnetic sensing mechanism

3. The irrigation controller shall include native support for Bermad 900-M Reed Switch and Netafim Pulse Reed Switch series hydrometers. Allowable hydrometer sizes shall range from 1.5” to 10”. Reed Switches that are supported include 1-pulse per 1-gallon and 1-pulse per 10-gallon switches. Currently only one hydrometer mentioned shall be able to interface with the controller

F. Central Control Communication

1. The field controller(s) shall be capable of utilizing a single mode or a combination of communication modes such as 3.5G cellular radio, Ethernet, wireless Ethernet, 450-470HMz Local Radio, point-to-point Spread Spectrum radio, and hardware communication cable for central control of irrigation via cloud-based, Command Center Online web software.

2. The controller shall be able to utilize a wireless, 3.5G cellular radio in remote areas where an Ethernet or WiFi connection is not possible for direct communication back to a desktop, tablet, or laptop computer via the Internet. Service plans for single and multiple controllers utilizing a 3.5G cellular modem shall be available through the manufacturer as 1-year or 5-year plan.

3. The controller shall be able to utilize an Ethernet communication, CAT5 or CAT6 cable path as part of a district’s or campus network system. An Ethernet
(RJ45) connection shall be supplied at the controller location, with the network set to have access to this connection. IP reservations with DHCP are preferred along with the hard-coded MAC address from the Ethernet device supplied. The secondary preference shall be a static IP address with additional programming requirements. The controller shall utilize an existing WiFi, wireless Ethernet network on a school campus or facility city project. IP reservations with DHCP are preferred along with the hard-coded MAC address from the Ethernet device supplied.

4. The controller shall be able to utilize a short-range, Spread-Spectrum radio to communicate with other controllers in line-of-sight proximity providing a reliable communication link instead of a hardwire communication path when sharing data. The spread-spectrum radio option does not require FCC licensing, and offers a secure error correcting frequency hopping radio link immune to outside interference.

G. Command Center Online Web Software:

1. The central control software shall be a cloud-based package designed to provide complete irrigation control through a web application, without the purchase of proprietary software loaded on a dedicated, desktop computer.

2. The fully featured web application shall provide communication using a variety of internet-connected options including Ethernet, Wireless Ethernet (WiFi), and 3.5G Cellular Radio.

3. The web application shall allow the user to monitor and program controllers, as well as run various water usage reports from any internet-connected device including PC’s, tablets, and smart phones. Weather data collected from an ET Gage, Tipping Rain Bucket, or WEATHERSENSE can be shared to any controller on the system.

4. Engineered for easy and reliable access, all that is needed to get started using the software shall be a username and password to obtain data from controllers in the field. Each customer’s service shall be unique, and password protected so data is secure.

5. User accounts shall be issued and managed by an administrator account so that only authorized users can access controller information.

6. The cloud-based software shall include the ability to turn stations On and Off remotely using any internet-connected device including PC’s and tablets, and a smart phone app. User shall be able to turn on up to six valves simultaneously and view real-time flow information, details if a mainline break occurs, and real-time weather data when using on-site weather devices such as daily ET and rainfall in inches.
7. The web software shall allow a customer to create their own custom dashboard as the home page, providing a snapshot of the most important water and labor management graphs and reports depicting easily the most current status of each controller at each specific project location.

8. System reports shall include complete records of the details for every irrigation cycle, water usage versus water budget amounts, the gallons and percentages of water savings, and what events and changes have occurred at the controller. System administrators shall have management reports listing sites and user for their company.

9. System requirements shall be a broadband internet connection such as DSL, cable, or mobile broadband.

10. Supported web browsers shall include: Microsoft Windows Internet Explorer® 8.0 or higher; Google® Chrome™ 34 or later; Mozilla Firefox™ 28 or higher; Apple® Safari™ 5.1.7 or higher.

H. Warranty, Service & Training

1. The manufacturer shall provide after-sale support that is a no charge service whereas on-going training and education shall be provided by factory direct personnel to the end user(s) at the field controller(s) and using the cloud-based, web software for central control of irrigation.

2. The central control manufacturer shall warrant to the purchaser of its manufactured products against defects in material and workmanship for a period of ten (10) years from the date of original purchase by the owner.

3. All peripheral, accessory, and RF equipment such as radio and 3.5G cellular radio modems, ET gages, flow sensors, and rain buckets (but not limited to) and used in conjunction with central irrigation controllers, shall have distinct warranties of their own and should be noted separately from this warranty.

I. Master Valve

1. Remote control valves shall be brass body, straight pattern, forward flowing and two-way solenoid operated. The internal control port of the valves shall be mechanically self-cleaning and automatically self-purging without the use of screens or filters. The diaphragm assembly shall be guided in all positions. Upon opening, the internal control port shall enlarge in size to purge and gradually reduce in size during closure to prevent water hammer. A manual flow stem to adjust the closing speed and allow for internal flushing shall be provided. A drip-tight resilient seated petcock shall be provided for manual opening without electricity. All valve porting shall be internal without the use of exterior tubing. All valve components shall be corrosion proof, metallic and be serviceable from the top.
2. Specifications:

<table>
<thead>
<tr>
<th>Description</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSI/Temp Rating:</td>
<td>200 PSI/180 degrees F</td>
</tr>
<tr>
<td>Voltage Operating Range:</td>
<td>17 – 40 VAC</td>
</tr>
<tr>
<td>Assembly:</td>
<td>Factory Assembled</td>
</tr>
<tr>
<td>End Connections:</td>
<td>FNPT</td>
</tr>
</tbody>
</table>

1. Materials:

<table>
<thead>
<tr>
<th>Description</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>Body and Cover:</td>
<td>Brass</td>
</tr>
<tr>
<td>Stem, Disc Retainer:</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>Metering Pin &amp; Spring:</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>Diaphragm Washer:</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>Disc Guide Seat:</td>
<td>Brass</td>
</tr>
<tr>
<td>Diaphragm:</td>
<td>Peroxide Cured EPDM</td>
</tr>
<tr>
<td>Disc Seal:</td>
<td>Buna-N</td>
</tr>
</tbody>
</table>

J. Flow Sensor Wires in Conduit

1. The flow sensor shall be wired back to the irrigation controller using two #14 AWG wires, one red, and one black in 1” PVC conduit to connect to the irrigation controller. The maximum wire run between flow meter and controller shall be 2000 ft. The flow meter shall send low voltage digital pulses back to the controller and therefore all electrical connections must be waterproof and be resistant to any moisture entry. The Calsense Flow Meter operates at 9 volts DC. The flow meter wires should be separated from other controller wires when pulled up at the irrigation controller site. If 24 VAC is used to test field wires when determining proper sequencing, and is applied to the flow meter wires, the sensing unit in the flow meter could be damaged. It is very important that all electrical connections are tight and dry. Any water leaking into a connection will cause flow meter problems. Additionally, there should never be any buried splices between the flow meter and the irrigation controller. Use only Calsense recommended electrical connectors.

2. It is intended that all wire runs between the controller and flow meter shall be directpulls and have no splices. If wire splices are unavoidable, they must be installed in a valve box with Spears DS-100 connectors with Spears sealant or 3M Scotchlok No. 3570 connector sealing pack used.

K. Control and Common Wire

1. To remote control valves wires shall be U.F. type, U.L. approved, AWG number 14 solid strand copper wire with minimum 4/64" PVC coating, 600-volt, 75 C. "Common" wire to be white coated. Each controller to have a different color pilot wire where more than 2 controllers are on a site.

L. Wire Connectors for Direct Burial Wires (24 Volt)
2. Splices, where permitted, shall be waterproofed using Spears DS-100 connectors with Spears sealant or 3M Scotchlok No. 3570 connector sealing pack used.

M. Concrete Base

3. 7,500 lb. strength at 28 days. Fine aggregate may be granular sand. All rock and gravel for use in concrete shall be mechanically washed and free from injurious amounts of deleterious substances.

Payment shall be made at the unit price bid per each and shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all work involved for Battery Powered Irrigation Controller per manufacturer’s specs, as specified in these Special Provisions and as directed by the Landscape Architect.

ITEM NO. 64 - ROOT BARRIER

This item shall consist of furnishing and installing root barrier in conformance with Sections 10 and 35 of the Standard Specifications and as amended by these Special Provisions.

A. Root Barrier shall be Model #EPS-1850 as manufactured by NDS Lindsay, CA 93247, (800) 726-1994 or approved equal. And shall be installed per the manufacturer’s specifications.

B. Root Barrier shall have a minimum thickness of 0.090 inches, and by made of 50% post consumer High Impact Polypropylene with built in U.V. inhibitors. The root barrier panels shall have 1/2" raised vertical ribs running perpendicular to the panel and 6” on center and shall feature a 3/8” wide “T” top edge and an external ground anchor base flange that is 1/8” wide.

C. Root Barrier shall be twenty four inches (24”) tall by twenty-four inches (24”) wide.

D. ASTM Specifications shall comply with the following chart:

<table>
<thead>
<tr>
<th>Properties</th>
<th>Tensile Strength</th>
<th>Yield Elongation</th>
<th>Flexural Modulus</th>
<th>Notched IZOD Impact</th>
<th>Rockwell Hardness</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTM TEST (Units)</td>
<td>D638 (PSI)</td>
<td>D638</td>
<td>D790A (PSI)</td>
<td>D256 (PSI)</td>
<td>D785</td>
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<tr>
<td>Values</td>
<td>3,600 – 4,200</td>
<td>12%</td>
<td>150.00</td>
<td>3.0 @ 73° F</td>
<td>R70</td>
</tr>
</tbody>
</table>

Payment shall be made at the unit price bid per linear foot and shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals and for doing all work
involved in completing the root barrier as shown on the plans, as specified in these Special Provisions and as directed by the Engineer or Landscape Architect.

ITEM NO. 65 - RESTORING EXISTING LANDSCAPE PLANTERS

This item shall consist of restoring existing landscape planters in conformance with Sections 10 and 35 of the Standard Specifications and as amended by these Special Provisions.

A. General

1. Contractor shall repair existing landscape areas damaged during construction activities as shown on the plans. Planters to restored to pre-construction condition with fully operational irrigation to the satisfaction of the City.

2. Contractor shall match all existing materials types including, but not limited to Irrigation equipment, Turf (Sod), Shrubs, landscape stone, bark mulch, etc.

3. Contractor shall submit samples and submittals for approval by City Representative prior to installation.

B. Turf

1. Soil in lawn areas adjacent to curbs or paved areas shall be graded so that after settlement, the soil will be one half inches (1/2") below the top of curb or paving.

2. Weed Control shall conform to Section 35-6 of the Standard Specifications.

3. Turf Seeding shall consist of 90% Dwarf Fescue mix, and 10% Dwarf Kentucky Bluegrass.

4. Turf Starter Fertilizer shall be applied at the rate of ten (10) lbs. per 1,000 square. Starter fertilizer shall conform to the requirements of the California Food and Agricultural Code A.

Payment shall be at the lump sum price bid, and shall include full compensation for furnishing all labor, material, tools, equipment and incidentals and for doing all work involved in completing restoring existing landscape planters as shown on the plans, as specified in these Special Provisions and as directed by the Inspector.

ITEM NO. 66 - MEDIAN/MAINTENANCE BAND PAVING

This item shall consist of install median/maintenance band in conformance with Sections 10 of the Standard Specifications and as amended by these Special Provisions.

Payment shall be at the lump sum price bid, and shall include full compensation for furnishing all labor, material, tools, equipment and incidentals and for doing all work involved in completing the concrete median/maintenance bands as shown on the plans, as specified in these Special Provisions and as directed by the Inspector.
ITEM NO. 67 - LANDSCAPE MAINTENANCE (6 MONTHS)

This item shall consist of maintaining the landscape planted areas installed in this contract as shown on the plans in conformance with Sections 35-15 through 35-18 of the Standard Specifications and as amended by these Special Provisions.

A. **Start of Maintenance Period** shall conform to Section 35-15 of the Standard Specifications. As amended by the following: The start of the Maintenance period will not start until SUBSTANTIAL COMPLETION (refer to sections 1-45 and 8-4 of the 2007 City Standard Specifications) of the entire project has been determined by the City landscape architect.

B. **Watering** shall conform to Section 35-13 of the Standard Specifications and these Special Provisions.

C. **Plant Replacement** shall conform to Sections 35-14 of the Standard Specifications.

D. **Plant Establishment** period or Landscape Maintenance Period shall conform to Section 35-16 of the Standard Specifications and be amended as follows: The Landscape Maintenance Period shall be thirty (30) calendar days and shall begin on the date of the Start of Maintenance Period. Plant Establishment and Landscape Maintenance shall continue until final acceptance of the work.

E. **Tree Maintenance**. Trees shall be pruned and shaped as directed by the Landscape Architect. Trees shall be re-staked as necessary. Maintain watering basins and shrub and groundcover areas free of weeds.

F. **Pre-Final Inspection** shall conform to Section 35-17 of the Standard Specifications and be amended as follows: Seven (7) weeks prior to the end of Maintenance Period, the Inspector and the Landscape Architect shall conduct a pre-final inspection. At the pre-final inspection or at any time, thereafter, should the Inspector determine that the project meets the requirements of the final acceptance of the work, he may issue final acceptance of the project to the Contractor.

G. **Final Inspection** shall conform to Section 35-18 of the Standard Specifications. At the time of final acceptance of the work, any square yard of the planted areas shall be ninety percent (90%) weed free and in a neatly mowed condition, as determined by the Inspector.

Payment shall be at the unit price bid per month and shall include full compensation for furnishing all labor, materials, tools, equipment, incidentals and for doing all work involved in the maintenance as shown on the Plans, as specified in these Special Provisions and as directed by the Engineer.
ITEM NO. 68 - DECORATIVE FENCE TO RESET
Contractor shall remove and reset the existing Decorative fence where shown on the Plans, as directed by the Engineer, and in accordance with Section 13 of the Standard Specifications.

The Contractor shall use existing decorative fence material from the existing median in the resetting of fences. Contractor shall replace any fencing material damaged with new material of equal quality or better.

The relocated fences shall be constructed to neat lines. Fence posts shall be placed vertical and be implanted firmly in the ground in a manner consistent with the original construction.

The decorative fence when reset may be short in fencing material. The Contactor shall fill any gap of decorative fence with similar fencing material as part of the cost of this bid item.

The Engineer shall determine the amount and exact limits of fence to be reset in the field. Measurement for payment shall be based upon the actual length of fence reset. No adjustment to the unit price bid for this item shall be made for any variation in the estimated quantity.

Payment shall be at the unit price bid per linear foot and shall include full compensation for furnishing all labor, materials, tools, equipment, incidentals and for doing all work involved in resetting existing fence and gate and decorative fence to reset as shown on the Plans as specified in these Special Provisions and as directed by the Engineer.

ITEM NO. 69 - PARK MONUMENT SIGN TO RELOCATE
Existing Park Monument sign shall be removed and relocated to the new location shown on the Plans or as directed by the Engineer and shall conform to the applicable requirements of Section 32 of the Standard Specifications and these Special Provisions. The Park Monument sign shall be installed at the new location on the same day that the sign is removed from its original location.

Payment shall be at the unit price bid per each sign to relocate and shall include full compensation for furnishing all labor, material, tools, equipment, incidentals and for doing all work involved in relocating the roadside signs as shown on the Plans, as specified in these Special Provisions and as directed by the Engineer.

ITEM NO. 70 - ELECTRONIC PARK SIGN TO RELOCATE
Existing Electronic Park sign shall be removed and relocated to the new location shown on the Plans or as directed by the Engineer and shall conform to the applicable requirements of Section 32 of the Standard Specifications and these Special Provisions. The Electronic Park sign shall be installed at the new location on the same day that the sign is removed from its original location.

Payment shall be at the unit price bid per each sign to relocate and shall include full compensation for furnishing all labor, material, tools, equipment, incidentals and for doing all work involved in relocating the roadside signs as shown on the Plans, as specified in these Special Provisions and as directed by the Engineer.
ITEM NO. 71 - MONUMENT SIGNS

This item shall consist of furnishing and installing Monument Sign with concrete bases and aggregate foundation as shown on the plans in conformance with these Special Provisions and the manufacturer’s specifications.

A. Sign and Pedestal Base shall be made of concrete mix, to include 8.5 sacks of Portland cement per yard with a maximum rock size of 3/4 inch.

B. Sign shall be pre-cast and be manufactured in three pieces (base, body, top) and shall be assembled on site by the contractor.

C. Coloring Agent shall be approved with shop drawings and shall be a combination of integral color and penetrating concrete stain that chemically combines with cured concrete to produce permanent color effects.

D. Concrete Sign and Footing shall attain a minimum compressive strength of 7,000 PSI.

E. Concrete Reinforcement shall be #4 rebar minimum. Rebar shall be at a minimum 12-inch grid pattern throughout the interior of the sign. Concrete footing shall have a minimum of two (2) rows of #4 rebar running parallel to the face of the footings. All formed surfaces and edges shall be fully rounded and smooth finished.

F. Concrete Graffiti Sealer shall be UV stable, peel and flake resistant. The graffiti sealer shall be installed by the sign vendor a minimum of five (5) days before delivery. The signs shall receive a minimum of two (2) coats of the graffiti sealer applied to the signs and sign bases. The sealer is manufactured by Coval Molecular Coatings or approved equal.

G. Monument Sign Lettering Size shall be approved. All lettering shall be recessed from the surface of the Monument Sign. Edges on the sign letters shall not be rounded. The lettering for “MEADOWVIEW” (on both the West and East elevations shall be all upper case, paint filled black, and the style shall be Quadrat. Contractor shall submit a mockup of the sign and receive written approval from the Landscape Architect prior to ordering the Monument Sign, including the Monument Sign and concrete base.

H. Hardware. The sign vendor shall provide Contractor with the hardware required to secure the signs to their bases and footings. Sign manufacturer shall supply detail. Each sign base shall be doweled into the onsite footing via threaded "coil rods" that attach to the sign and down in to grout pockets in the footing. Coil rods shall be supplied by sign manufacturer.

I. Delivery. Contractor shall have the means to transport Monument Sign to the project site.

J. Foundation shall be as shown on the plans. Aggregate base shall conform to Section 10-7 and 17-1 of the Standard Specifications and have a relative compaction of 90%.
K. Concrete Footing shall be Portland Cement Concrete Type II Class “D,” as specified in Section 10 and installed in conformance with Section 20 of the Standard Specifications and as indicated on the plans.

L. Monument Sign shall be purchased by the Contractor and unloaded and installed per the manufacturer’s specifications at the location indicated on the plans. Monument Sign shall be by Outdoor Creations Inc., 2270 Barney Rd., Anderson, CA 96007, www.outdoorcreations.com, contact: Chad Smith, Regional Territory Manager, chad@outdoorcreations.com, (530) 365-6106 or approved equal. Allow 90 days from the time of order.

M. Acceptance of Monument Sign. The City of Sacramento is not responsible for any damage to the sign during the transportation or installation of the signs and bases. The City of Sacramento will only be responsible for the sign and base after the final acceptance walk-through. Contractor may wrap the sign with black plastic until final acceptance by the City.

N. Contractor shall submit shop drawings to City for approval prior to ordering.

Payment shall be at the unit price bid per each and shall include full compensation for furnishing all labor, materials, tools, equipment, incidentals and for doing all work involved completing Monument Sign as shown on the Plans as specified in these Special Provisions and as directed by the Engineer.

ITEM NO. 72 - MASONRY WALL (JOB CORPS)

The Contractor shall install masonry wall at the Job Corps where shown on plans, as directed by the Engineer. Contractor shall cut the artificial turf at the southern boundary of the permanent easement and place protective covering over the remaining turf within the temporary construction easement (TCE). Contractor shall install protective fencing along the southern boundary of the TCE to protect play structure and artificial turf area.

Payment shall be at the unit price bid per linear foot and shall include full compensation for furnishing all labor, material, tools, equipment, installing protective cover, protective fencing, incidentals and for doing all work involved in installing masonry wall as shown on the Plans, as specified in these Special Provisions and as directed by the Engineer.

ITEM NO. 73 - ROADSIDE SIGN

This item shall consist of manufacturing, furnishing and installing traffic signs on existing posts or new posts placed where shown on the Plans or as directed by the Engineer and shall conform to the applicable requirements of Sections 32 and 38 of the Standard Specifications and these Special Provisions. New posts will be paid for by a separate item.

A sign material and installation submittal must be reviewed and accepted by the Engineer before fabrication and installation.
The Contractor shall notify the Engineer two (2) working days prior to the placement of the signs. The Contractor shall review the proposed sign location with the Engineer and a supervisor from the City’s Traffic Signs and Markings section prior to installation of the sign. The Engineer may make adjustments to the proposed sign location in the field.

The Contractor shall use the sign sizes as shown in the State of California, Department of Transportation Traffic Manual, unless specified otherwise on the drawings.

Signs located at the side of the roadway shall have a minimum height of seven feet (7’) from the adjacent ground to the bottom of the sign, unless specified otherwise. The height of a combination of signs in the median, such as an R7 with an R10, shall be 18 inches from the top of the island to the bottom of the lowest sign (R10) with a maximum one-inch separation between the two signs.

Each sign shall have the date of manufacture and a location number stenciled on the backside. Location information shall consist of each sign having an individual number which will be recorded on a clean set of Plans during the sign installation and shall be turned in as part of the “Record Drawings”.

A. Sign Posts
   A 5/16-inch diameter cap screw with a plated rubber backwasher against the face of the sign and elastic stop nuts shall be placed through the sign and post at both top and bottom of each sign. A “V” notched piped saddle, to support the sign, shall be placed between the sign and the post.

B. Signal and Street Light Poles
   Place a ¾-inch stainless steel banded strap and appropriate hardware at both top and bottom of each sign.

C. Sheeting Grade
   Sheeting Grade shall use ASTM Type 11 or 3M DG Cubed specifications designed to enhance nighttime visibility of traffic control signs and objects. Type 11 or 3M DG Cubed sheeting shall have a precoated adhesive protected by an easily removable liner.

D. Sign Material
   All signs shall be aluminum panels conforming to 5052-H38. All road signs shall be 0.08” thick with the exception of street name signs which shall be 0.125” thick.

Payment shall be made at the unit price bid per each roadside sign and shall include full compensation for furnishing all labor, materials, tools, equipment, incidentals and for doing all work involved in placing roadside signs on existing posts as shown on plans, as specified in these Special Provisions and as directed by the Engineer.

ITEM NO. 74 - ROADSIDE SIGN (ONE POST)

This item shall consist of installing roadside signs on new posts where shown on the Plans or as directed by the Engineer and shall conform to the applicable requirements of Sections 32 and 38 of the Standard Specifications and these Special Provisions.
The Contractor shall notify the Engineer two (2) working days prior to the placement of the posts. The Contractor shall review the proposed post location with the Engineer and a supervisor from the City’s Traffic Signs and Markings section prior to installation of the post. The Engineer may make adjustments to the proposed post location in the field.

All posts shall have a minimum resisting Moment of 400 foot-pounds. All posts shall be capped. Post caps may be aluminum or galvanized steel. Bolts and miscellaneous metal hardware shall be galvanized or plated after fabrication in conformance with Section 75 “galvanizing” of the State of California, Department of Transportation Standard Specifications.

Payment shall be made at the unit price bid per each roadside sign (one post), and shall include full compensation for furnishing all labor, materials, tools, equipment, incidentals and for doing all work involved in installing roadside signs and posts as shown on plans, as specified in these Special Provisions and as directed by the Engineer.

ITEM NO. 75 - OBJECT MARKER TYPE K

Markers and delineators shall conform to the provisions in Section 82, "Markers and Delineators," of the State Standard Specifications and these special provisions.

Markers and delineators on flexible posts shall be as specified in "Prequalified and Tested Signing and Delineation Materials," elsewhere in these special provisions. Flexible posts shall be made from a flexible white plastic which shall be resistant to impact, ultraviolet light, ozone and hydrocarbons. Flexible posts shall resist stiffening with age and shall be free of burns, discoloration, contamination, and other objectionable marks or defects which affect appearance or serviceability.

Reflective sheeting for metal and flexible target plates shall be the reflective sheeting designated for channelizers, markers, and delineators specified in "Prequalified and Tested Signing and Delineation Materials," elsewhere in these special provisions.

Payment shall be at the unit price bid per each and shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, for doing all work involved in placing object markers as shown on the Plan, as specified in these Special Provisions and as directed by the Engineer.

ITEM NO. 76 - THERMOPLASTIC PAVEMENT STRIPE

ITEM NO. 77 - THERMOPLASTIC PAVEMENT MARKINGS

Preformed thermoplastic stripe and pavement markings, both white and yellow, shall be constructed on asphalt and asphalt concrete pavement as shown on the plans or as directed by the Engineer and shall conform to AASHTO M249-79(98) and the applicable requirements of Section 32 of the City Standard Specifications and these Special Provisions.

Payment shall be at the unit price bid per linear foot of preformed thermoplastic pavement stripes to place, and per square foot for preformed thermoplastic pavement markings to place and shall
include full compensation for furnishing all labor, material, tools, equipment, incidentals and for doing all work involved with placing preformed thermoplastic stripe and markings as shown on the Plans, as specified in these Special Provisions and as directed by the Engineer.

**ITEM NO. 78 - PAVEMENT MARKERS**

Pavement markers shall be furnished and placed where shown on the Plans or as directed by the Engineer and shall conform to the applicable requirements of Section 32 of the Standard Specifications and these Special Provisions.

Payment shall be at the unit price bid per each pavement markers to place and shall include full compensation for furnishing all labor, material, tools, equipment, incidentals and for doing all work involved with placing pavement markers as shown on the Plans, as specified in these Special Provisions and as directed by the Engineer.

**ITEM NO. 79 - INTERCONNECT INSTALLATION (FIBER OPTIC CABLE)**

The work to be performed for this item, in general, includes furnishing and installing all necessary equipment and materials for the fiber optic installation as indicated on the Plan sheets and these Specifications.

Contractor shall provide and install a new 12-strand, 24-strand, 48-strand and 96-strand fiber optic cables, and tracer tape as specified in these Specifications and Plan set. Fiber optic cable and tracer tape shall be installed, as well as re-routed, in new and existing pull boxes, conduits, maintenance holes, and trunk lines.

Duct Seal shall be provided and installed at the end of all conduits with Fiber Optic Cabling.

Contractor shall provide and install Model 332L fiber hub and 12-port, rail mount fiber patch panels and housings per plans. Contractor shall terminate fiber into fiber patch panels.

Work also includes removing all project related Underground Service Alert (USA) marks from the project site. Contractor shall also remove all tire marks, equipment marks, machinery marks, and other liquids, such as oil and machinery coolant, on the sidewalk, driveway, curb ramp areas that was caused by the contractor during construction.

Payment shall be at the lump sum price bid and shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, for doing all work involved with this line item as shown on the Plans, as specified in these Special Provisions and as directed by the Engineer

**ITEM NO. 80 - STREETLIGHT INSTALLATION**

The work to be performed for this item, in general, includes furnishing and installing all necessary equipment and materials for a new streetlight system as indicated on the Plan sheets and these Special Provisions.

Included in the work shall be furnishing and installing conduits, conductors, pull boxes, foundations, traffic control measures, incidentals, and all appurtenances shown on the Plans and called for in these
Special Provisions. Contractor shall supply and install lockable lids for the pull boxes. See Special Provisions for details. Potholing shall be included in the bid price for this item.

The Contractor shall install all City furnished materials: streetlight standards, luminaire arm, and all appurtenances as specified in the specifications and shown in the Plans for a functional streetlight system. Contractor shall be responsible for all necessary hardware to stand and install all City furnished materials. Contractor to provide luminaire.

Contractor shall make all coordination with SMUD for service point location and power hookup.

Contractor shall take preconstruction photographs prior to starting construction. Preconstruction photographs shall conform to Section 11 of the Standard Specifications and be included in the bid price for this item.

Work also includes removing all project related Underground Service Alert (USA) marks from the project site. Contractor shall also remove all tire marks, equipment marks, machinery marks, and liquids, such as oil and machinery coolant, on the sidewalk, driveway, and curb ramp areas that was caused by the contractor during construction.

Payment shall be at the lump sum price bid and shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all work involved with installing the new streetlights as shown on the Plans, as specified in these Special Provisions and as directed by the Engineer.

ITEM NO. 81 - TRAFFIC SIGNAL MODIFICATION (MEADOWVIEW ROAD/24TH STREET)

The work to be performed for this item, in general, includes furnishing and installing all necessary equipment and materials for the traffic signal modifications as indicated on the Plan sheets and these Specifications.

Contractor shall provide and install new pull boxes, conduit, conductors, detector cables, detector handholes, detector loops, pull rope, CCTV Camera System, GPS emergency vehicle detection system, metered service pedestal, and network switch communication equipment.

Contractor shall also provide and install 1-B traffic signal poles, pedestrian pushbuttons and posts, traffic signal and pedestrian displays, louvers, mounting brackets, foundations, and all appurtenances shown on the Plans and called for in these Special Provisions to ensure a complete installation and functioning traffic signal system.

Contractor shall provide a new Type ‘R’ Traffic Signal Cabinet and Controller, TS2 Type 1 with all auxiliary devices. Contractor shall deliver the cabinet to the City of Sacramento corporation yard. Contractor shall pickup and install cabinet/controller at location specified in the planset and by the Engineer.

Work also includes extending new conduits and conductors to existing pull boxes.
Construction work also includes removing conductors, cables, and pull boxes, abandoning conduits, abandoning foundations for traffic signal cabinets, removing signal interconnect cables/wires, removing and salvaging existing modems, and removing existing fiber optic cable.

Potholing shall be included in the bid price for this item.

The contractor shall configure and program the video detection system, CCTV camera, and GPS emergency vehicle detector system for a fully functional traffic signal system.

Also included in the work shall be the installation of City furnished equipment: traffic signal standards and mastarms as specified in the Plans and these Provisions. Contractor shall be responsible for all necessary hardware to stand and install all City furnished equipment. Contractor to provide luminaire.

Work also includes removing all project related Underground Service Alert (USA) marks from the project site. Contractor shall also remove all tire marks, equipment marks, machinery marks, and other liquids, such as oil and machinery coolant, on the sidewalk, driveway, curb ramp areas that was caused by the contractor during construction.

Payment shall be at the lump sum price bid and shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, for doing all work involved with this line item as shown on the Plans, as specified in these Special Provisions and as directed by the Engineer.

**ITEM NO. 82 - TRAFFIC SIGNAL MODIFICATION (MEADOWVIEW ROAD / CORAL GABLES STREET)**

The work to be performed for this item, in general, includes furnishing and installing all necessary equipment and materials for the traffic signal modifications as indicated on the Plan sheets and these Specifications.

Contractor shall provide and install new pull boxes, conduit, conductors, detector cables, detector handholes, detector loops, pull rope, GPS emergency vehicle detection system, metered service pedestal, and network switch communication equipment.

Contractor shall also provide and install 1-B traffic signal poles, pedestrian pushbuttons and posts, traffic signal and pedestrian displays, louvers, mounting brackets, foundations, and all appurtenances shown on the Plans and called for in these Special Provisions to ensure a complete installation and functioning traffic signal system.

Contractor shall provide a new Type ‘R’ Traffic Signal Cabinet and Controller, TS2 Type 1 with all auxiliary devices. Contractor shall deliver the cabinet to the City of Sacramento corporation yard. Contractor shall pickup and install cabinet/controller at location specified in the plantset and by the Engineer.

Work also includes extending new conduits and conductors to existing pull boxes.
Construction work also includes removing conductors, cables, and pull boxes, abandoning conduits, abandoning foundations for traffic signal cabinets, removing signal interconnect cables/wires, removing and salvaging existing modems, and removing existing fiber optic cable.

Potholing shall be included in the bid price for this item.

The contractor shall configure and program the video detection system, and GPS emergency vehicle detector system for a fully functional traffic signal system.

Also included in the work shall be the installation of City furnished equipment: traffic signal standards and mastarms as specified in the Plans and these Provisions. Contractor shall be responsible for all necessary hardware to stand and install all City furnished equipment. Contractor to provide luminaire.

Work also includes removing all project related Underground Service Alert (USA) marks from the project site. Contractor shall also remove all tire marks, equipment marks, machinery marks, and other liquids, such as oil and machinery coolant, on the sidewalk, driveway, curb ramp areas that was caused by the contractor during construction.

Payment shall be at the lump sum price bid and shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, for doing all work involved with this line item as shown on the Plans, as specified in these Special Provisions and as directed by the Engineer.

ITEM NO. 83 - TRAFFIC SIGNAL MODIFICATION (MEADOWVIEW ROAD / 29TH STREET)

The work to be performed for this item, in general, includes furnishing and installing all necessary equipment and materials for the traffic signal modifications as indicated on the Plan sheets and these Specifications.

Contractor shall provide and install new pull boxes, conduit, conductors, detector cables, detector handholes, detector loops, pull rope, CCTV Camera System, GPS emergency vehicle detection system, metered service pedestal, and network switch communication equipment.

Contractor shall also provide and install 1-B traffic signal poles, pedestrian pushbuttons and posts, traffic signal and pedestrian displays, louvers, mounting brackets, foundations, and all appurtenances shown on the Plans and called for in these Special Provisions to ensure a complete installation and functioning traffic signal system.

Contractor shall provide a new Type `R’ Traffic Signal Cabinet and Controller, TS2 Type 1 with all auxiliary devices. Contractor shall deliver the cabinet to the City of Sacramento corporation yard. Contractor shall pickup and install cabinet/controller at location specified in the plans set and by the Engineer.

Work also includes extending new conduits and conductors to existing pull boxes.
Construction work also includes removing conductors, cables, and pull boxes, abandoning conduits, abandoning foundations for traffic signal cabinets, removing signal interconnect cables/wires, removing and salvaging existing modems, and removing existing fiber optic cable.

Potholing shall be included in the bid price for this item.

The contractor shall configure and program the video detection system, CCTV camera, and GPS emergency vehicle detector system for a fully functional traffic signal system.

Also included in the work shall be the installation of City furnished equipment: traffic signal standards and mastarms as specified in the Plans and these Provisions. Contractor shall be responsible for all necessary hardware to stand and install all City furnished equipment. Contractor to provide luminaire.

Work also includes removing all project related Underground Service Alert (USA) marks from the project site. Contractor shall also remove all tire marks, equipment marks, machinery marks, and other liquids, such as oil and machinery coolant, on the sidewalk, driveway, curb ramp areas that was caused by the contractor during construction.

Payment shall be at the lump sum price bid and shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, for doing all work involved with this line item as shown on the Plans, as specified in these Special Provisions and as directed by the Engineer.

ITEM NO. 84 - TRAFFIC SIGNAL MODIFICATION (MEADOWVIEW ROAD / DETROIT BOULEVARD)

The work to be performed for this item, in general, includes furnishing and installing all necessary equipment and materials for the traffic signal modifications as indicated on the Plan sheets and these Specifications.

Contractor shall provide and install new pull boxes, conduit, conductors, detector cables, detector handholes, detector loops and pull rope.

Contractor shall also provide and install 1-B traffic signal poles, pedestrian pushbuttons and posts, traffic signal and pedestrian displays, louvers, mounting brackets, foundations, and all appurtenances shown on the Plans and called for in these Special Provisions to ensure a complete installation and functioning traffic signal system.

Work also includes extending new conduits and conductors to existing pull boxes.

Potholing shall be included in the bid price for this item.

The contractor shall configure and program the video detection system for a fully functional traffic signal system.

Also included in the work shall be the installation of City furnished equipment: traffic signal standards and mastarms as specified in the Plans and these Provisions. Contractor shall be
responsible for all necessary hardware to stand and install all City furnished equipment.
Contractor to provide luminaire.

Work also includes removing all project related Underground Service Alert (USA) marks from
the project site. Contractor shall also remove all tire marks, equipment marks, machinery
marks, and other liquids, such as oil and machinery coolant, on the sidewalk, driveway, curb
ramp areas that was caused by the contractor during construction.

Payment shall be at the lump sum price bid and shall include full compensation for furnishing all
labor, materials, tools, equipment and incidentals, for doing all work involved with this line item
as shown on the Plans, as specified in these Special Provisions and as directed by the Engineer.

ITEM NO. 85 - ELECTRICAL SERVICE FOR IRRIGATION

The work to be performed for this item, in general, includes furnishing and installing all necessary
equipment and materials for electrical service for irrigation, as indicated on the Plan sheets and
these Special Provisions.

The Contractor shall submit the related electrical service applications to SMUD under the
Contractor’s name for billing. After the City’s acceptance of the “Landscape Maintenance (6
months)”, the Contractor shall make a formal request to transfer the electrical service to City’s
name.

Contractor shall supply and install lockable lids for the pull boxes. See Special Provisions for
details.

Payment shall be at the lump sum price bid and shall include full compensation for furnishing all
labor, materials, tools, equipment and incidentals, and for doing all work involved with submitting
the electrical service to SMUD, maintaining the electrical service for the landscape maintenance 6
month period and installing the electrical service for irrigation as shown on the Plans, as specified in
these Special Provisions and as directed by the Engineer.

ITEM NO. 86 - PARKING LOT LIGHTING AND MESSAGE SIGN RELOCATION

The work to be performed for this item, in general, includes furnishing, installing, relocating and
removing all necessary equipment and materials for a parking lot lighting system as indicated on
the Plan sheets and these Special Provisions.

Included in the work shall be furnishing and installing conduits, conductors, pull boxes,
foundations, traffic control measures, removal of existing uplighting, incidentals, and all
appurtenances shown on the Plans and called for in these Special Provisions. Potholing shall be
included in the bid price for this item.

Contractor shall take preconstruction photographs prior to starting construction. Preconstruction
photographs shall conform to Section 11 of the Standard Specifications and be included in the
bid price for this item.
Contractor shall verify the existing conduit, conductor and service location for the parking lot lights and message sign in the field. Extend and connect new conduit to existing parking lot and message sign lighting systems as required. Splice new conductors to existing conductors are acceptable. If existing conduit and conductors are damaged or not able to reuse, installing new conduit and conductors are required.

Work also includes removing all project related Underground Service Alert (USA) marks from the project site. Contractor shall also remove all tire marks, equipment marks, machinery marks, and liquids, such as oil and machinery coolant, on the sidewalk, driveway, and curb ramp areas that was caused by the contractor during construction.

Payment shall be at the lump sum price bid and shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all work involved with removing existing uplighting, furnishing, installing and relocating commercial sign and parking lot lights as shown on the Plans, as specified in these Special Provisions and as directed by the Engineer.
ELECTRICAL COST BREAKDOWN

The Contractor shall provide a Schedule of Values (cost break-down) for each lump sum electrical item(s). The Schedule of Values (cost break-down) shall be provided by 4:00 p.m. on the fourth working day after the bid opening. If the lump sum item cost break-down is not submitted within the specified time, the bid will be deemed as non-responsive. The cost break-down shall be submitted to Jose Ledesma, Contracts Manager, at 915 I Street, Suite 2000, Sacramento, CA 95814, or by email at JLedesma@cityofsacramento.org.

The sum of the amounts for the units of work listed in the cost break-down for electrical work shall be equal to the contact lump sum price bid for the work. The unit price is the material and installed cost with overhead, profit, and labor.

The Contractor shall determine the quantities to complete the work shown on the plans. The Contractor shall be responsible for the accuracy of the quantities and values. No adjustment in compensation will be made in the contract lump sum prices paid for the various electrical work items due to any differences between the quantities shown in the cost break-down furnished by the Contractor and the quantities required to complete the work as shown on the plans and as specified in these special provisions. At the Engineer’s discretion, the approved cost break-down may be used to determine partial payments during the progress of the work and as the basis of calculating the adjustment in compensation for the items of electrical work due to changes ordered by the Engineer. When an ordered change increases or decreases the quantities of an approved cost break-down, the adjustment in compensation may be determined, at the Engineer’s discretion, in the same manner specified for increases and decreases in the quantity of a contract item of work in accordance with Section 9-1.06, “Changed Quantity Payment Adjustments”, of Caltrans Standard Specification. The cost break-down submitted by the responsive qualified low bid Contractor shall be approved by the Engineer before any partial payment for the items of electrical work shall be made based on the cost break-down. The cost break-down shall include, but is not limited to: type of equipment, estimated quantity, and unit price ($/LF or each). See below for sample items. Some items from the list may not apply to the project, and other items may need to be included. Contractor shall submit break-down in a spreadsheet format.

Conduit — list each size (2", 3", etc.), installation method, quantity (LF), unit price ($/LF).

Conductor — list each size (#6, #8, etc.), quantity (LF), and unit price ($/LF).

Pull Box — list type (#5, #6, etc.), quantity, and unit price ($/EA).

Electrical Service — type (metered or unmetered), quantity, and unit price ($/EA).

Traffic Signal and Streetlight Standards with Foundation — list each standard (such as 1-B, Type 16, post top, mast arm, ornamental, etc), quantity, and unit price ($/EA).

Luminaires — type (200 watt fixture, etc.), quantity, unit price ($/EA).

Traffic Signal and Pedestrian Displays — quantity and unit price ($/EA).

Pedestrian Push Button — quantity and unit price ($/EA).
Detector Loop – type (5’x5’, 6’x6’, etc), quantity and unit price ($/EA).
Detector Lead-In Cable – quantity and unit price ($/LF).
Detector Handhole – quantity and unit price ($/EA).
Emergency Vehicle Detector System – quantity and ($/EA).
Traffic Signal Controller and Cabinet – quantity and unit price ($/EA).
Battery Back-Up System – quantity and unit price ($/EA).
Interconnect Cable – quantity and unit price ($/LF).
11. ELECTRICAL PROVISIONS WHICH APPLY TO ALL ELECTRICAL ITEMS

11.1 City Equipment to be Removed and Salvaged
All City of Sacramento equipment to be salvaged shall be returned to the City of Sacramento Corporation Yard, unless otherwise directed by the Engineer. The City has two corporation yards: Corporate Center South, 5730 24th Street, Building 11, Sacramento, California and the Corporate Center North, 918 Del Paso Road, Sacramento, California. Contractor is responsible to provide machinery and manpower to unload and load all salvaged equipment. Loading, unloading, pick-up, and delivery of these items will be considered included in the price bid for various items and no additional compensation will be allowed therefor.

The Contractor shall schedule the delivery of salvaged equipment with the City Inspector. Equipment drop-off shall be done in the presence of the City Inspector or his designated representative. The Contractor shall be responsible for all damages that occur in connection with the care and protection of all City salvaged equipment.

11.2 City Furnished Equipment
The City furnished materials is purchased through Distributors. The City will provide the name of the Distributor. The contractor shall contact the Distributors and coordinate delivery and storage of the City furnished materials to the Contractor’s facility. Full compensation for coordinating delivery of City furnished materials, storing City furnished materials, and any required transport of City furnished materials is included with this bid item. The City furnished materials shall be stored at the Contractor’s facility, not at the jobsite. Prior to unloading the materials from the Distributor, the contractor shall contact a city engineer to inspect the materials. If the materials appear to be damaged during delivery, the materials will be returned to the manufacturer. Non-working days may be issued by the City until the materials are fixed by the manufacturer and returned to the Contractors facility. The manufacturer is responsible for the return shipping. If the materials are acceptable to the City, the contractor is responsible to carefully unload the materials. Contractor is responsible to provide machinery and manpower to unload and load all city furnished materials. Unloading and delivery to the construction site will be considered included in the price bid for various items and no additional compensation will be allowed therefor. The Contractor is responsible for all damages that occur in connection with the care and protection of all materials until the completion and final acceptance of the work by the City.

In the event the City furnished materials is stored at the City Corporation Yard, the contractor shall pickup City furnished materials and deliver the City furnished materials to the Contractor facility. The City furnished materials cannot be stored at the jobsite. Contractor is responsible to provide machinery and manpower to unload and load all city furnished materials. Loading, unloading, pick-up, and delivery of these items will be considered included in this line item and no additional compensation will be allowed therefor. The Contractor shall schedule the material pickup with the City Inspector. Material pick-up shall be done in the presence of the City Inspector or his designated representative. The Contractor is responsible for all damages that occur in
connection with the care and protection of all city furnished materials until the completion and final acceptance of the work by the City.

The Contractor shall pick-up all City furnished equipment at the City Corporation Yard. The City has two corporation yards: Corporate Center South, 5730 24th Street, Building 11, Sacramento, California and the Corporate Center North, 918 Del Paso Road, Sacramento, California, and deliver these items to the job site. Contractor is responsible to provide machinery and manpower to unload and load all city furnished equipment. Loading, unloading, pick-up, and delivery of these items will be considered included in the price bid for various items and no additional compensation will be allowed therefor.

The Contractor shall schedule the equipment pick-up with the City Inspector. Equipment pick-up shall be done in the presence of the City Inspector or his designated representative. The Contractor shall be responsible for all damages that occur in connection with the care and protection of all materials and equipment until the completion and final acceptance of the work by the City.

The Contractor’s responsibility for City supplied equipment shall be in accordance with Section 6-1.02, “State-Furnished Materials,” of the State Standard Specifications.

Traffic Signal and Street Lighting Standards - The City of Sacramento shall provide the traffic signal and street lighting standards and mast arms and as specified in the Plan sheets. The City will provide one set of anchor bolts with the City supplied equipment. The Contractor shall provide and construct the foundations for the traffic signal and street lighting standards in accordance with the State Standard Plans, these Special Provisions, the Plans and as designated by the Engineer. The Contractor shall install all City furnished equipment on the foundations and make all wire connections as directed by the Engineer. City forces will program all controllers, conflict monitors, and detector sensor units. The Contractor shall notify the Traffic Signal Maintenance Shop, (916) 433-6314, ten (10) working days prior to the date of installation of the traffic signal standards.

11.3 Conduit Material
JM Eagle and PW Eagle are not acceptable conduit materials.

A. General – Schedule 40

Conduit to be installed underground shall be Schedule 40 polyvinyl chloride (PVC) or Schedule 40 polyethylene conduit as described herein unless otherwise indicated or specified. PVC conduit shall comply with the specifications in Section 34-10 of the City Standard Specifications. High-density polyethylene conduit shall comply with the following specifications:

Conduit shall be fabricated from polyethylene shall be in conformance with applicable ASTM and NEMA standards and Article 347 of the National Electrical Code. Non-black polyethylene conduit shall contain not less than 2500 parts per million (ppm) of a hindered amain ultraviolet light stabilizer. Ultraviolet stabilization additive for black polyethylene conduit shall consist of a carbon black loading of 2.5% ± 0.5% by weight.
Conduit shall be manufactured from high-density polyethylene resin designated as Type III, Category 5, Class C, Grade P34 material in accordance with ASTM D1248.

Duct seal shall be installed on all conduits.

All new conduits starting/terminating in pull boxes shall have End Bells.

B. High Density Polyethylene (HDPE) Conduit

HDPE conduit shall be manufactured to UL 651A specifications, compliant with NEC Article 353, and Schedule 40, unless otherwise specified. HDPE conduit shall have high tensile strength-to-weight ratio, crush resistance, low coefficient of friction for directional drilling.

11.4 Conduit Installation

Conduit installation shall be in accordance with Section 34-9, 34-10 of the Standard Specifications and as modified by these Special Provisions. “Jet-rodding” is not permitted.

Conduits terminating in pull boxes, standards, pedestals and cabinets shall rise vertically and shall not slope in any direction. Conduits terminating in standards, pedestals, and cabinets shall terminate one and one-half inches (1½”) above finished grade. Conduits shown on the Plans to be adjacent and parallel to each other shall be installed in the same trench or drill hole unless otherwise specified or directed by the Engineer. Under the sidewalk, conduit shall be laid to a depth of not less than eighteen inches (18”) below the sidewalk grade.

Conduits shall be installed by trenching or directional drilling method.

All applicable requirements in these Special Provisions to locate, and to protect existing utilities, utility laterals, obstructions, and other facilities in the area shall be conformed to and no additional compensation will be allowed therefor. Contractor is responsible for any damage and the repair of any existing facilities damaged by his/her trenching or drilling operations. Contractor is responsible for any potholing necessary and cost for potholing shall also be included in price paid for applicable items of work and no additional compensation will be allowed therefor. All trenching or drilling work shall be contained within the City right-of-way. If utilities or other obstacles are encountered at the specified conduit depth, any additional drilling required to avoid the obstacle shall be made at the Contractor’s expense and no additional compensation will be allowed therefor. Location of trenching and drill holes shall take into consideration minimal impact to the street pavement while still meeting the requirements of these Special Provisions.

Contractor shall replace roadway striping and markings with same material if damaged by directional drilling, bore pits, potholes, or trenching. Replacement striping and markings shall be thermoplastic or paint, per the City of Sacramento Standards.

Contractor shall use the following PVC pipe cement to join conduits and fittings: Premier Cement PVC All Temperature One Step Blue or Christy’s Red Hot Blue Glue for Schedule 80 thru 4” diameter.

A. Trenching Method
Installation of conduit by trenching shall be in conformance with the Plans and these Special Provisions. See plan sheets for trench details. Trenches shall be backfilled or covered at the end of each work day. All conduit installed by trenching shall be anchored every 15 feet to the bottom of the trench, with an approved method, so as to prevent the conduit from floating when the concrete is backfilled into the trench.

1. Trenches in reconstructed roadways shall be backfilled with slurry portland cement per cubic yard and fine type aggregate as defined in the Standard Specifications Section 10-5. A red oxide in the amount of 5 lbs. per cubic yard shall be mixed uniformly throughout the slurry cement. See plan sheets for amount of sack slurry and depth of conduit(s).

2. Trenches in existing roadways shall use the “T-Trench” method. The portion over the trench shall be paved with asphalt concrete, Type A with \( \frac{3}{4} '' \) aggregate (coarse); except on residential streets where the base course shall be Type A, \( \frac{3}{4} '' \) aggregate (coarse) and surface coarse shall be Type B, \( \frac{1}{2} '' \) aggregate, (medium), per Section 22 of the City Standard Specifications, unless otherwise directed by the Engineer. See plan sheets for width and thickness of asphalt concrete over trench. Trenches shall be backfilled with slurry portland cement per cubic yard and fine type aggregate as defined in the Standard Specifications Section 10. A red oxide in the amount of 5 lbs. per cubic yard shall be mixed uniformly throughout the slurry cement. See plan sheets for amount of sack slurry.

B. Directional Drilling Method

Installation of conduit by directional drilling shall be in conformance with the Plans and these Special Provisions.

Conduits shall be installed such that the top of the conduit(s) are not less than eighteen inches (18'') below the finished grade in sidewalk areas and not less than thirty inches (30'') in all other areas except as otherwise specified or directed by the Engineer.

Prior to the start of directional drilling, the Contractor shall submit a plan which identifies location and size of proposed drill holes, describes process for identifying/locating existing utility services and other underground utilities or obstructions, identifies a proposed “drilling corridor” to avoid conflicts with existing utilities, services and other facilities. This plan shall be submitted to the Engineer a minimum of ten (10) working days prior to the start of work. The Contractor will not be allowed to directional drill until an approved plan is on file with the Engineer.

Directional drilling shall be performed by the technique of creating and directing a bore hole along a predetermined path to a specified targeted location where indicated on the plans to install conduits. The technique shall involve the use of mechanical and hydraulic equipment to change the boring course and shall use instrumentation to monitor the location and orientation of the boring head assembly along the predetermined course. Drilling shall be accomplished with fluid-assisted mechanical cutting. Unless otherwise approved, boring fluids shall be a mixture of bentonite and water or polymers and additives. Bentonite sealants and water will be used to
lubricate the drilling head. It is mandatory that minimum pressures and flow rates be used during drilling operations so as not to fracture the subgrade material around and/or above the bore. Uncontrolled jetting (where the primary purpose is to use fluid force to erode soil for creation of the final bore hold diameter) is prohibited. The drilling system shall utilize small-diameter fluid jets to fracture, and mechanical cutters to cut and excavate the soil as the head advances forward.

All drilling shall be located a minimum of three feet (3’) from the center of all existing maintenance holes. Drilling that run parallel to any sanitary sewer or storm drainage lines shall maintain a minimum clearance of three feet (3’) measured from the centerline of the sewer or drainage line to the adjacent side of the drill hole. Drilling that crosses any sewer or drainage line shall cross at 90 degrees to the line or at a minimum of 45 degrees if a 90 degree crossing is not possible.

11.5 Conduits
Conduits shall be in accordance with Section 34-12 of the Standard Specifications, except for the following:

1. If the existing ground wire (green 1#10 THW) is used as a pullwire, a new ground wire shall be pulled with the new conductors or cables, unless otherwise specified.

2. Unless otherwise noted, insulation Types THHN and THWN are not approved for installation.

3. The enter into the leads from base to lamp socket shall be No. 12 THW solid wire with 45 mils insulation suitable for 600-volt service for historic decorative, post top and mast arm electroliers.

4. All conductors of AWG #10 or larger shall be identified by printed and embossed labels. #1, #6, #8, #10 conductors shall be printed and embossed.
   a) Both printed and embossed labels shall clearly identify the UL listing, insulation type, voltage rating, AWG number, and the City of Sacramento.
   b) The printed label and the embossed label shall be placed at approximately 90 degrees separation around the center of the conductors.
   c) Labels shall appear every one foot interval. Embossed labels shall be between 0.002” to 0.003” in depth and shall not damage the conductors. Label heights shall be no less than 3/32” for AWG #8 or larger, and shall be no less than 2/32” for AWG #10.

11.6 Communication Equipment
The following communication equipment shall be provided, installed and configured per the Plans and Special Provisions.

A. Fiber Network Switch with Power Supply
   Network Switch shall be manufactured by Cisco, Model IE-2000-8TC-G-B or approved equal.

   All Cisco hardware, software, licensing, and SmartNet must be new and procured through a Cisco Gold authorized reseller and validated by the Cisco Account Manager for the City of
Sacramento. Cari Fisher is our local representative and can be reached at carfishe@cisco.com or (408) 894-5457. All purchases must be registered with Cisco under the City of Sacramento Traffic Engineering name and contracts associated with City of Sacramento Traffic Engineering department’s CCO ID’s upon 30 days of procurement. CCO IDs will be provided by City of Sacramento Traffic Engineering.

The network switch shall have the following:
- Model IE-2000-8TC-G-B
- Power Supply shall be Cisco, PWR-IE50W-AC-IEC.
- Two (2) GLC-LX-SM-RGD – Small Form Factor Pluggable Module
- 19” DIN Rail mount kit STK-RACK-DINRAIL

Network Switch shall meet the following requirements:
- Industrial grade
- DIN rail mountable
- Ethernet connectivity
- Operate under 14 degrees Fahrenheit to 140 degrees Fahrenheit, and under vibration and shock
- Eight (8) 10/100 Base-T Ethernet ports and 2 Small Form Factor Pluggable (SFP) ports
- Two (2) gigabit combo ports: SFP
- Swappable SD flash card and mini-USB connector
- LAN base (OS) Software license
- Switch shall have MAC address security function for each port
- Switch shall have Vlan function for each port
- 5-year warranty

Power Supply for Network Switch shall meet the following requirements:
- Compatible with Cisco IE 2000 Series industrial grade switch
- DIN rail mountable
- Input: 100-120 VAC or 200-240 VAC, manually selected AC, 50-60 Hz
- Operate under 14 degrees Fahrenheit to 140 degrees Fahrenheit, and under vibration and shock
- 5-year warranty
- Power Supply for Network Switch shall be installed in cabinet.

Small Form Factor Pluggable Module Cisco 100Base – X small Form Factor Pluggable Module – Two (2) GLC-LX-SM-RGD – Cisco device hot-swappable I/O device that plugs into Fast Ethernet ports, dual-rate Fast/Gigabit Ethernet ports, or Gigabit Ethernet ports of Cisco Switch linking the port with the fiber cabling network or approved equal

For Type R cabinet, power supply for network switch shall be mounted on a DIN rail attached to aluminum stock for support. The DIN rail and aluminum stock shall be mounted to the cabinet channel rails. The Contractor is responsible for making all connections and shall be made per manufacturer’s recommendations to ensure that the switch is powered. See Plans for further details.
Functional Test
The Fiber Network Switch shall be power up and ready to be programed. City will program switch to connect to city traffic network. Switch Functional test is passed once city as preformed network test to prove network operability.

B. Surge Suppressor Power Strip
Surge Suppressors shall meet the following requirements:

For Type R Cabinet, Surge Suppressors shall be manufactured by Tripp-Lite Power Protection, Model ISOBAR6ULTRA or approved equal.
- 120 VAC, 60 Hz. 3,300 joule surge protection, 135,000 Max surge Amps, 6 ft cord. 6 outlet.

For 332 Cabinet, Surge Suppressors shall be manufactured by Triplite, model ISOBAR12ULTRA. 12 outlet.
- 120 VAC, 60 Hz, 3,840 joule surge protection, 150,000 Max surge Amps, 15 ft cord. 12 outlet.

Surge Suppressors are to be installed in Type R and Type 332 cabinets at locations where a network fiber or DSL switch are being installed as noted on the Plans. For Type R cabinet, the Surge Suppressor shall be mounted to the cabinet channel rail, and must be wired to the load side of the 15-amp main breaker in the cabinet. For the Type 332 cabinet, the Surge Suppressor shall be mounted on 2” aluminum stock on the back side of the cabinet near the top using the 19” rack. The Surge Suppressor must be plugged into the equipment receptacle on the back of the power assembly of the 332 cabinet. See Plans for further details.

11.7 CCTV Camera System

A. General
The CCTV Camera shall be AXIS Q6155-E PTZ Dome Network Camera or pre-approved equal. System shall include PoE mid-span power injector, mounting brackets and cat 6 cabling.

The CCTV system for traffic monitoring shall connect to the city network through the Ethernet switch in the traffic signal cabinet. All cabling between the camera and the traffic signal cabinet shall be Category 6 (CAT6) outdoor rated communication cable. Camera shall be powered over the data cable via a mid span high Power over Ethernet (PoE) injector. The Camera shall be rated commercial/industrial 24/7/365 outdoor uses. The camera shall be able to be tilted above horizon. The camera shall have an open and published API (Application Programmers Interface), allowing for integration with third party applications and it shall conform to the network video standard as defined by the ONVIF organization. Camera shall be equipped with a HTTP accessible web server to allow for programming, configuration, video streaming and PTZ controls, without the need for additional software.

B. Components
The camera system shall have following components:
### Manufacture | Model Number | Description
---|---|---
AXIS | Q6155-E | PTZ Dome Network Camera
AXIS | T8134 | High power PoE Mid-Span power Injector
Belden | 7927A | Outdoor Rates Cat6 Cable
AXIS | T91L61 | Wall and Pole Mount for Axis Camera
AXIS | 39680 | RJ45 PushPull connector
Belden | 7927A | Category 6

**C. Camera**

The camera enclosure shall meet IP66 and NFMA 4X. The dome shall be clear acrylic (PMMA) and include a sunshield (PC/ASA). The camera shall be IP based and support Motion JPEG and H.264 encoding, providing at least three individually configured video streams capable of 30 frames per second at resolution between 176x120 and (D1) 1920x1080 pixels or higher, using both Constant (CBR) and Variable (VBR) Bit Rates. It shall have high-speed pan and tilt control with a 360° endless pan range and a 220° tilt range and speeds between 0.05° - 450°/sec. The lens shall be at least a 30x optical providing a horizontal angle of view between 60° and 2° at tolerance of ±3° and be capable of 12x digital zoom. The camera shall have the ability set up to 100 pre-set positions. The lens shall have aperture capable of F1.4 – F4.6. It shall be equipped with Day/Night functionality, using a high-quality IR-sensitive progressive scan CCD sensor. CCD sensor shall be able to provide pictures in lighting conditions down to 0.2 lux at F1.4 while in day mode (with IR-filter in use) and down to 0.04 lux while in night mode (with IR-filter removed). It shall incorporate automatic and manual white balance wide dynamic range functionality. It shall be capable of uploading and storing images and video recording via FTP, SMTP or HTTP or to local storage and shall include an expansion slot for a SD/SDHC memory card. Camera shall be powered with a PoE mid-span injector that meets high Power over Ethernet IEEE 802.3at standard.

**D. Camera Interface**

The camera shall connect to the traffic signal cabinet with Category 6 (CAT6) outdoor rated communication cable. All cable connections shall be CAT6 rated.

Camera power shall be over the data cable via PoE injector. All data ports shall be 100BASE-TX Fast Ethernet-port, support auto negotiation of network speed (100 MBit/s and 10 MBit/s) and transfer mode (full and half duplex). The Camera shall be automatically detected using UPnP and Bonjour standards and provide support for both IPv4 and IPv6. The camera shall support both fixed IP addresses and dynamic IP addresses.

Camera shall connect through the network to the City’s existing Milestone 2016 video management control software. The camera shall be fully capable of working with Milestone software and shall allow full control of PTZ, focus, iris, and be able to present and display all video streams.
E. Mid-Span High Power over Ethernet (PoE) injector

The PoE injector shall power the camera and provide RJ-45 sockets for data passing through at 10/100/1000 Mbits per second. The injector shall have an input power of 100-240 Vac and be able to output at 55 Vdc at 1.35 amps. The PoE injector shall meet the following standards IEEE 802.3af, IEEE 802.3at. The PoE injector shall be located in the traffic signal cabinet.

F. Communication- Power Cable and connectors

The camera shall connect PoE injector with Category 6 cable. The cable shall be Belden 7927A Multi-Conductor - Category 6 DataTuff® cable. See Outdoor Ethernet Communication cable section of these special provision. The cable shall connect to the camera with a RJ45 PushPull connector meeting IP66 environmental requirements and to the PoE injector with a standard RJ-45 connector.

G. Camera Mounting Option

Camera shall mounted as indicated on the plans. AXIS pole mount T91L61 shall be used for cameras that are to be mounted on the vertical shaft of the signal pole and AXIS Parapet mount T91L61 mounted for camera that are to be mount on the horizontal signal mast arm.

All mounting hardware shall be stainless steel. The cable holder in the mounting bracket shall hold the communication cable in place. The cable shall have enough slack for easy removal of the camera. All holes drilled into poles or signal mast arms shall have a rubber grommet to protect the communication cable.

H. Functional Test

The camera shall be installed and wired per the manufacturer’s recommendations and shall power up and have a viewable video feed. Camera shall be fully controllable.

11.8 Category 6 Outdoor Ethernet Communication Cable

All Ethernet communication cable placed in pole and conduits shall be Belden Part 7927A DataTuff Cat 6, 4 pair, 23awg Solid BC, PO/PVC, CMR. The cable shall have 23 AWG Bonded-Pair solid bare copper conductors, polyolefin insulation, E-Spline center member, industrial grade sunlight- and oil-resistant PVC jacket, rip cord. Sequential marking at two foot intervals. Connection for the cable it shall use Cat6 approved connectors. Cable shall meet NEC Specifications CMR, UL444, TIA 568.C.2 and NEMA WC-63.1, Category 6.

Belden 7953A
11.9 Category 6 Communication Cable Connection

CATEGORY 6A FIELD MOUNT PLUG, 568A/B, UTP, LARGE AWG 22-24 (0.043 - 0.063 IN.) CAPFMUL-S1 Modular Connectors - FIELD MOUNT PLUG CAT6A UTP, LARGE AWG 22-24

11.10 Detector Conductor Loop

A. Loop Conductors

Each loop conductor shall be continuous, unspliced, Type RHW-USE neoprene-jacketed or Type USE crosslinked polyethylene insulated No. 12 stranded copper wire. Conductor insulation thickness shall be 40 mils minimum.

B. Loop Conductor Installation

Detector loop installation shall conform to these Special Provisions and the State Standard Plans, Sheet ES-5A.

Unless otherwise specified, each loop shall be three (3) turns of conductors for each detector loop. Unless otherwise shown or noted on the Plans, each new detector loop shall be 6' x 6' and centered in the travel lane.

Slots cut in the pavement shall be blown out with compressed air and dried and inspected for any sharp objects or corners which shall be removed prior to installation of loop conductors.

The loop conductors shall be installed in the slots using a 5/16" to 1/4" wooden paddle. As it is installed, the wire shall be kept under slight tension and shall be kept in the slots with suitable cardboard wedges. The cardboard wedges shall not be removed until the loop sealant operation requires removal.

Loop conductors shall be installed without splices and shall terminate in the Nearest pull box. The detector loops shall be joined in the nearest pull box in combination of series and parallel so that optimum sensitivity is obtained at the sensor unit. Final splices between loops and lead-in cable shall not be made until the operation of the loops under actual traffic conditions is approved by the Engineer. Each detector loop shall be identified and tagged by loop number, start (S), and finish (F). For example: Phase 4D1-1S & Phase 4D1-1F; Phase 4D1-2S & Phase 4D1-2F.

All loop conductors for each direction of travel for the same phase of a traffic signal system in the same pull box, shall be spliced to a cable which shall be run from the pull box adjacent to the loop detector to a sensor unit mounted in the controller cabinet. Splices to the cable shall be made in pull boxes only. All splices to the lead in cable and between loops and the lead in cable shall be soldered as specified in State Specifications in Section 86-2.09C, "Connectors and Terminals". Open flame soldering will not be permitted.
Each detector loop circuit shall be tested for continuity, circuit resistance, and insulation resistance at the controller location. The loop circuit resistance shall not exceed 0.50 ohms plus 0.35 ohms per 100 feet of lead-in cable. The insulation resistance shall be performed between each circuit conductor and ground. The meggered insulation resistance shall not be less than 200 megohms. The Contractor shall replace any detector loop that fails this requirement at the Contractor’s expense.

1. **Depth of Loops and Conductors in the Traveled Way**

   All conductors and conductor loops installed in the traveled way shall be installed so that the top of the conductor is a minimum of one-inch (1") below the surface grade of the street.

2. **Inductive Loop Sealant**

   Only the following methods may be used for inductive loop sealant:

   **Asphaltic Emulsion and Sand Method**

   1) Immediately after the loop wires have been installed, the slot shall be filled with an anionic asphaltic emulsion conforming to the State Standard Specifications for Rapid Setting No. 1 (RSI).

   2) Dry 20 mesh sandblasting sand shall then be poured in and around the slot. A suitable and approved tool shall then be used to work the asphaltic emulsion up through the dry sand. The slot will then be inspected for any dry spots in the sandfill. Any dry sand spots will then be wetted with more asphaltic emulsion. More dry sandblasting sand shall then be added to the slot and the asphalt emulsion will again be worked up through the sand until a uniform mix of asphaltic emulsion and sand with no voids completely fills the slot to the level of the surrounding road surface. A final thin layer of sand will then be added to surrounding surface to absorb the excess asphaltic emulsion. The traveled way may be opened to vehicular traffic immediately after installation of the asphaltic emulsion and sand loop sealant.

   **Hot-Melt Rubberized Asphalt Sealant Method**

   Hot-melt rubberized asphalt sealant shall conform to, and be installed in accordance with State Specifications Section 86-5 01A(5) and as directed by the Engineer.

   **Sackrit Method**

   After conductors are installed in the slots cut in the pavement, paint binder shall be applied to all vertical surfaces of slots in accordance with the provisions in Section 94, "Asphaltic Emulsions", of the State Standard Specifications. The slots shall then be filled with asphaltic concrete sealant.

   Asphaltic concrete sealant shall be a mixture of sand and liquid asphalt. The percentage of sand in the asphaltic concrete sealant shall conform to the following:
<table>
<thead>
<tr>
<th>Screen Size</th>
<th>Percentage Passing</th>
</tr>
</thead>
<tbody>
<tr>
<td>#4</td>
<td>100%</td>
</tr>
<tr>
<td>#8</td>
<td>91%</td>
</tr>
<tr>
<td>#16</td>
<td>63%</td>
</tr>
<tr>
<td>#30</td>
<td>39%</td>
</tr>
<tr>
<td>#50</td>
<td>24%</td>
</tr>
<tr>
<td>#100</td>
<td>10%</td>
</tr>
<tr>
<td>#200</td>
<td>7%</td>
</tr>
</tbody>
</table>

The sand shall be uniformly mixed with six percent (6%) SC800 liquid asphalt conforming to Section 93 of the State Standard Specifications.

Temperature of sealant material during installation shall be above 70 degrees F. Air temperature during installation shall be above 50 degrees F. Sealant placed in the slots shall be compacted by use of an eight-inch (8") diameter 1/8" thick steel hand roller or other tools approved by the Engineer. Compacted sealant shall be flush with the pavement surface. Excess sealant remaining after rolling shall be reused. Traffic may be released immediately over compacted material.

C. **Abandonment of Loop Conductor**

Each detector loop shall be saw-cut in a minimum of two places.

### 11.11 Detector Handholes

Where shown on the Plans, detector loops shall be sawcut into detector handholes. Detector handholes shall be Type B and shall be installed as shown in Traffic Signals/Street Lighting Standard Details in the Plans sheets, unless otherwise noted or directed by the Engineer. No splicing will be allowed in the detector handholes. For detector handholes to be removed, holes or depressions resulting from the removed handhole shall be filled, compacted, brought to grade, and filled to match surrounding materials.

### 11.12 Detector Lead-In Cable

Detector lead-in cable shall be "Canoga" Type 30003, or approved equal. Detector lead-in cable shall conform to the following Special Provisions:

Lead-in cable shall consist of four (4) No. 18 A.W.G. stranded copper conductors insulated with nine (9) mils minimum of polypropylene, color coded, parallel laid, twisted together with four to six turns per foot. An amorphous interior moisture penetration barrier shall be provided to prevent hosing, siphoning, or capillary absorption of water along cable interstices. The outer jacket shall be thirty (30) mils minimum in thickness, high density polyethylene conforming to ASTM Designation: D-1248, 65T for Dielectric Material, Type I, Class C, Grade 5, J3. The diameter of the cable shall be approximately .25 inch.

Aluminum-polyester shielding shall be applied around the conductors.
The detector lead-in cable shall be continuous from the pull box adjacent to the conductor loops to the controller unless otherwise shown on the Plans.

Splicing of detector lead-in cables to loop conductors and splicing of detector cables when called for on the Plans shall be as follows:

1. Splices shall be made in pull boxes only. All splices to lead in cable shall be soldered. The ends of the splice shall then be inserted into an approved insulated spring type connector of the correct size. When detector cables and detector loops are initially installed, precautions shall be taken to insure the cables and loops remain water tight prior to splicing. If splicing is not to be done immediately after installation, the ends of the conductors and cables shall be dipped in electrical insulating liquid which shall render them water tight. The insulating liquid shall be fast drying, resistant to oils, acids, alkalis and corrosive atmospheric conditions and shall be compatible with the insulations used in the conductors and cables. All conductors and cables shall be installed and splices shall be made in a dry environment.

3. The splice shall then be insulated by "Method B" of the State Standard Plans Sheet ES-13, or as directed by the Engineer.

11.13 Emergency Vehicle Detector System – GPS Priority Control System

The GPS Emergency Vehicle Detector System shall be fully compatible with the City’s existing GPS system. The Contractor shall provide and install the following GPS Emergency Vehicle Detector System equipment manufactured by Global Traffic Technologies (GTT) or approved equal.

A. Intersection GPS Emergency Vehicle Detector System Components

Intersection GPS Emergency Vehicle Detector System components shall include the following:

- Opticom GPS Phase Selector – Model 764
- Opticom GPS Radio Unit (shaft mount) – Model 1010
- Opticom GPS Auxiliary Interface Panel – Model 768
- Opticom GPS Card Rack with power supply kit – Model 760
- Opticom Intersection Cabling, Model 1070
- Opticom Mounting Hardware

B. Installation

The Contractor shall provide, fully install, and configure the GPS Emergency Vehicle Detector System per the Plans and Special Provisions. The Contractor shall terminate all wiring and provide all necessary programming software and electronic manuals. The Contractor shall map approaches, program and configure input/output of all GPS phase selector cards per manufacturer’s recommendation and City standards. The Contractor shall
install the Auxiliary Interface Panel in controller cabinet and terminate all wiring connections.

The GPS unit shall be mounted to the shaft of the traffic signal mast arm pole using a Pelco Astro Mini Bracket with 90 degree sweep or approved equal. See Plans for further mounting details. All GPS cabling and mounting hardware which includes NPT mounts, nipple/pipe, cable retainers, cover screws, wiring covers, etc. shall be included in the bid price. The GPS unit shall be mounted to allow the maximum GPS signal strength reception from GPS satellites and shall meet manufacturer’s recommendations. The mounting location of the GPS unit should be such that the cable run from the GPS unit to the phase selector in the controller cabinet is no more than 250 feet. The GPS unit shall be oriented such that the cable retainer is facing an area from which vehicles will not be approaching and/or per manufacturer’s recommendation.

Model 764 shall be programmed as follows:

<table>
<thead>
<tr>
<th>Model 764 Channel</th>
<th>Controller EV Assignment</th>
<th>Cabinet Channel</th>
<th>Phase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Channel A</td>
<td>3</td>
<td>3</td>
<td>1 &amp; 6</td>
</tr>
<tr>
<td>Channel B</td>
<td>4</td>
<td>4</td>
<td>2 &amp; 5</td>
</tr>
<tr>
<td>Channel A</td>
<td>5</td>
<td>5</td>
<td>3 &amp; 8</td>
</tr>
<tr>
<td>Channel B</td>
<td>6</td>
<td>6</td>
<td>4 &amp; 7</td>
</tr>
</tbody>
</table>

C. Functional Test

GPS Phase Selector, GPS Unit, and GPS Auxiliary Interface Panel shall be installed, powered, and programmed per manufacturer’s recommendation and City standards. The GPS system shall be able to detect vehicle up to 1500 feet from the intersection. The Contractor shall conduct functional tests for all approaches to the intersection. The system shall provide phase green for the preempted approach. The 764 card diagnostic button shall call assigned phases as defined and phase green for the preempted approach. The City shall program the traffic signal controller for preemption functionality as needed.

11.14 Fiber Optic

Fiber Optic Cable Requirements

Fiber optic cable shall be Corning Altos All-Dielectric Gel-Free or approved equal. The Contractor shall use the following cable types as listed below or approved equal.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
<th>Manufacturer</th>
<th>Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 Strand</td>
<td>012EB4-14101A20</td>
<td>Corning</td>
<td>Cabinet to Cabinet</td>
</tr>
<tr>
<td>12 Strand</td>
<td>012EU4-T4101D20</td>
<td>Corning</td>
<td>From Splice Case</td>
</tr>
<tr>
<td>24 Strand</td>
<td>024EU4-T4101D20</td>
<td>Corning</td>
<td>Per Plan</td>
</tr>
<tr>
<td>48 Strand</td>
<td>048EU4-T4101D20</td>
<td>Corning</td>
<td>Per Plan</td>
</tr>
<tr>
<td>96 Strand</td>
<td>096EU4-T4101D20</td>
<td>Corning</td>
<td>Per Plan</td>
</tr>
</tbody>
</table>

Fiber Patch Cable (OS2 Jumpers)
<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
<th>Manufacturer</th>
<th>Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>1m</td>
<td>040402G5120001M</td>
<td>Corning</td>
<td>OS2 Jumpers</td>
</tr>
<tr>
<td>2m</td>
<td>040402G5120002M</td>
<td>Corning</td>
<td>OS2 Jumpers</td>
</tr>
</tbody>
</table>

Cable shall be all-dielectric, stranded loose-tube design with dry waterblocking for outdoor duct. Each fiber shall be distinguishable by means of color coding in accordance with TIA/EIA-598-B, "Optical Fiber Cable Color Coding." The fibers shall be colored with ultraviolet (UV) curable inks. Buffer tubes shall be made from polypropylene. Each buffer tube shall contain a water swellable yarn or water blocking element for water blocking protection. The water-swellable yarn or water blocking element shall be non-nutritive to fungus, electrically non-conductive, and homogeneous. It shall also be free from dirt or foreign matter. This yarn or water blocking element will preclude the need for other water blocking material; the buffer tube shall be gel free. The optical fibers shall not require cleaning before placement into a splice tray or fan out kit. The buffer tube shall be manufactured to a nominal diameter of 2.5mm or 3.0 mm, regardless of fiber count, to reduce the number of required installation and termination tools.

Buffer tubes containing fibers shall be color coded with distinct and recognizable colors in accordance with TIA/EIA-598-B. Buffer tube colored stripes shall be inlaid in the tube by means of co-extrusion when required. The nominal stripe width shall be 1 mm. Buffer tubes in a hybrid cable (cable containing more than one type of fiber) shall contain only one fiber type. Identification of fiber types in a hybrid cable shall correspond to fiber core diameter (or mode field diameter) from smallest to largest in accordance with TIA/EIA-598-B. Buffer tubes shall be stranded around the dielectric central member using the reverse oscillation stranding process. Two polyester yarn binders shall be applied contra helically with sufficient tension to secure each buffer tube layer to the dielectric central member without crushing the buffer tubes. The binders shall be non-hygroscopic, non-wicking, and dielectric with low shrinkage. Water swellable yarn(s) shall be applied longitudinally along the central member during stranding. For dual-layer cables, a second (outer) layer of buffer tubes shall be stranded over the original core to form a two-layer core. A water swellable tape shall be applied longitudinally over both the inner and outer layer. The waterswellable tape shall be non-nutritive to fungus, electrically non-conductive, and homogeneous. It shall also be free from dirt and foreign matter. Cable shall be comprised of water-swellable yarns and/or tapes, dielectric strength members (as required), ripcord(s) and an MDPE jacket containing carbon black to provide ultraviolet light protection while inhibiting the growth of fungus.

Cable jacket shall be marked with the manufacturer’s name, month and year of manufacture, sequential meter or foot markings, a telecommunication handset symbol as required by Section 350G of the National Electrical Safety Code® (NESC®), fiber count, and fiber type. The actual length of the cable shall be within -0/+1% of the length markings. The print color shall be white, with the exception that cable jackets containing one or more coextruded white stripes, which shall be printed in light blue. The height of the marking shall be approximately 2.5 mm. Cable shall contain reverse oscillation lay (ROL) markings as needed. Cable shall have a storage temperature range of -40°C to 70°C, an installation temperature range of -30°C to 70°C, and an operating temperature range of -40°C to 70°C. Cable shall have a short-term tensile rating of 2700 N. No fiber strain shall occur over the service life of the cable when subjected to a maximum, long-term tensile rating of 890 N.

Cable shall meet the functional requirements of Rural Utilities Service (RUS) 7 CFR 1755.900 and be fully compliant with ICEA S-87-640. Manufacturer shall be ISO 9001 and TL 9000 registered. Cable manufacturer shall have a minimum of 20 years in manufacturing optical fiber cable in order
to demonstrate reliable field performance. Cable and fiber manufacturer shall be the same company to ensure long-term reliability of the cabled fiber and to ensure the availability of fully integrated technical support.

<table>
<thead>
<tr>
<th>Parameters</th>
<th>SM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Step Index</td>
</tr>
<tr>
<td>Core Diameter</td>
<td>8.2 µm (nominal)</td>
</tr>
<tr>
<td>Cladding Diameter</td>
<td>125 µm ± 0.7 µm</td>
</tr>
<tr>
<td>Core-Clad Concentricity</td>
<td>&lt; 0.5 µm</td>
</tr>
<tr>
<td>Coating Diameter</td>
<td>245 µm ± 5 µm</td>
</tr>
<tr>
<td>Cladding Non-Circularity</td>
<td>&lt; 0.7%</td>
</tr>
<tr>
<td>Defined as: [1-(min. cladding dia.) max. cladding dia.)]x100</td>
<td></td>
</tr>
<tr>
<td>Proof/Tensile Test</td>
<td>100 kpsi, (0.7 GPa) min.</td>
</tr>
<tr>
<td>Attenuation @ 1310 nm</td>
<td>&lt; 0.35 dB/km</td>
</tr>
<tr>
<td>Attenuation @ 1,550 nm</td>
<td>&lt; 0.20 dB/km</td>
</tr>
<tr>
<td>Attenuation at the Water Peak</td>
<td>&lt; 0.35 dB/km @ 1383 ± 3 nm</td>
</tr>
<tr>
<td>Index of Refraction</td>
<td>1310 nm: 1.4677</td>
</tr>
<tr>
<td></td>
<td>1550 nm: 1.4682</td>
</tr>
<tr>
<td>Chromatic Dispersion</td>
<td>1313 nm</td>
</tr>
<tr>
<td>Zero Dispersion Slope</td>
<td>&lt; 0.086 ps/(nm²*km)</td>
</tr>
<tr>
<td>Maximum Dispersion</td>
<td>3.3 ps/(nm²*km) for 1285 - 1330 nm &lt; 18</td>
</tr>
<tr>
<td></td>
<td>ps/(nm²*km) for 1550 nm</td>
</tr>
<tr>
<td>Cut-Off Wavelength</td>
<td>&lt; 1,260 nm</td>
</tr>
<tr>
<td>Mode Field Diameter</td>
<td>9.2 ± 0.4 µm at 1310 nm</td>
</tr>
<tr>
<td>Peterman II)</td>
<td>10.4 ± 0.5 µm at 1550 nm</td>
</tr>
</tbody>
</table>

D. Fiber Optic Cable Installation

1. Contractor shall install all fiber optic cable per manufacturer’s recommendations and the City’s Plans and Special Provisions.

2. All splice work will be performed by City Approved Contractor. All patch panels and splice materials will be provided by City Approved Contractor.

3. The Contractor shall test all fiber optic cable spans after installation (Bare Fiber Testing). Testing results must be provided to the City Inspector. The City shall review test results and accept or reject the cable within 5 working days. If accepted by the City, and the Contractor shall submit a request to the City to perform splice work. If rejected, the Contractor shall replace the cable and retest.
4. The Contractor shall maintain a record of all sheath footage markings for each cable span. Hard and soft copy of all records shall be provided to the City with test results along with the program to review the soft copy of the test results.

5. Existing fiber optic cable must be protected from damage. The Contractor shall contact the City Inspector twenty-four (24) hours prior to working near any existing city fiber optic cabling.

6. During installation, the tensile force shall not exceed 600 lbs. The Contractor shall use a break away swivel, or a slip-clutch capstan, set for less then 600 lbs. pulling tensile strength.

7. Installation procedures shall be in conformance with the procedures specified by the cable manufacturer for the specific cable being installed.

8. Fiber marking tags shall be installed on fiber optic cable in every pull box. The tags shall be non-adhesive, Hellermann-tyton 4” fiber optic marker, part number CMFO4 or approved equal.

9. During cable installation, the bend radius shall be maintained at a minimum of twenty times the outside diameter of the cable.

10. Fiber optic cable shall be installed without splices except where specifically allowed on the plans or described in these special provisions. The need and approval for unplanned splices shall be reviewed by the engineer. Unplanned splices will be done at no cost to the City.

11. The Contractor shall install Armco Bull Line Part #WP12LC (with trace wire) or approved equal with the fiber optic cable.

C. Fiber Optic Cable Testing (Bare Fiber Testing):


1. The Contractor may test the fiber optic cable prior to installation, but must test fiber optic cable after installation.

2. The Contractor shall test all fibers in the cable.

3. A continuity test using a power meter shall be used for 12 strand cables less than 200 feet. Power reading shall be provided with test results.

4. The Contractor shall use both a power meter test for continuity and an optical time domain reflectometer (OTDR) to test all other cable spans greater than 12 strands and longer than 200 feet. Proof of Calibration of all fiber optic test equipment may be requested by the inspector at any time, and must be provided along with the test results.
5. The fiber cable shall meet or exceed ANSI/EIA/TIA – 568B.3 and the latest BICSI TDMM Standards.

6. Test Results shall include the following:
   a. Total fiber length
   b. Individual fiber traces for complete fiber length
   c. Losses of all anomalies
   d. Wavelength tested and measurement directions
   e. Manufacturer, model number and serial number of test equipment
   f. Name, signature and company technician/engineer
   g. Test Equipment Calibration Certificate for all fiber test equipment
   h. Test Date

7. The Contractor shall provide the test results to the City Inspector. If fiber cable fails to meet cable testing standards and are not approved by the City, the Contractor shall remove the failed fiber optic cable and replace with new fiber optic cable at no additional cost to the City. New fiber optic cable shall be tested according to cable testing requirements in these Special Provisions.

D. Fiber Optic Cable Testing (Bare Fiber Testing):

11.15 Foundations to be Abandoned
Foundations to be abandoned shall be in accordance with Section 34-8 of the Standard Specifications. The top part of the foundation, anchor bolts, and conduits shall be removed to a depth of two feet (2') below the surface of sidewalk, unimproved ground or . The resulting hole shall be backfilled with material equivalent to the surrounding material.

11.16 Inspection
Inspection shall be in accordance with Section 34-22 of the Standard Specifications and these Specifications.

11.17 Mastarm Streetlight

A. General
Mastarm streetlights standards, Type 15, and foundation shall be installed in accordance with the latest California Department of Transportation Standard Plans, unless otherwise specified in these Special Provisions and Plans. Remove concrete forms on poles upon project completion. Remove all plywood, forms, excess and leftover concrete, and other debris as a result from construction upon project completion.

B. Luminaire
Luminaires to be installed shall be specifically designed for LED use and rated for up to 100,000 hours of operation. Luminaires shall be designed to produce asymmetric distributions conforming to the Illuminating Engineering Society light pattern Type III unless otherwise specified. Luminaire shall utilize a heat sink to efficiently draw heat away from the LED chipset.

The units shall be suitable for two-inch (2") slip filter and mounting.

All new luminaires to be installed shall be inspected by the Engineer prior to installation. Luminaires shall be supplied without photo cell receptacles unless otherwise called for the Plans. All luminaires supplied with photo cell receptacles that will not be used shall be required to completely bypass the receptacle and a shorting plug shall be securely installed in the receptacle.

C. LED

The following luminaires are approved products for mastarm streetlights:

- EOI eLite Star SL3c-M LED Street light – model # ESU D A01 3M 032 42 M 700 (type 3 Distribution)
- EOI eLite Star SL3c M LED Street light – model # ESU D A01 5M 032 42 M 700 (type 5 Distribution)

The luminaire shall be type III with a minimum CRI of 70 and a CCT of 4000K, unless otherwise specified.

See “Equipment to be Supplied” section of this special provision for submitting approved equal products.

11.18 Metered Electrical Service For Street Lighting

The new metered service pedestal shall be supplied and installed as shown on the Plans and shall conform to the serving utility requirements. Service shall be wired for 120/208 volts or 120/240 volts and single phase as shown on the Plans

4 Jaw meter for 120/240 Volts application.
5 Jaw meter for 120/208 Volts application.

The Contractor shall connect the luminaires to the circuits designated on the Plans. Contractor shall also install the service conduit and wires to the SMUD service point in accordance with SMUD's requirements. The Contractor shall protect and lock the service pedestal during construction. After construction is completed, the Contractor shall provide for each pedestal a master lock which will accept a Type 2214 key.

The service pedestal shall be fabricated in accordance with the dimensions shown on the service pedestal detail drawing in the traffic signals / street lighting standard details in the plan sheets. The overall dimensions of the enclosure shall be 63" high x 12" wide x 7.25" deep. The service pedestal shall consist of a separate metering section and a service section. The meter section shall
have a removable cover-top, side, and front sections welded together so that it is rain tight and padlockable.

The service pedestal shall be fabricated from 14 gauge Type 304D stainless steel and as described under the following paragraph in the Caltrans Standard Specifications section 86-3.07A, "Cabinets fabricated from stainless steel shall conform to the following:". The mounting brackets shall be 10 gauge Type 304D stainless steel. All welds shall be of highest quality and ground smooth and finished so that grind marks are not visible.

The enclosure shall be rain tight and dust tight. All welds shall be ground smooth and finished so that grind marks are not visible. A hinged dead front plate with cutouts for the handles of the breakers and the switch shall be provided in addition to a hinged outside door equipped with a draw latch suitable for padlocking. Galvanized anchor bolts shall be inside or outside the service pedestal as shown on the Plans. 5/8” x 18” x 4” Anchor bolts (set of 4) shall also be provided. The enclosure shall have no screws, nuts, or bolts on the exterior, except utility sealing screws. All screws, nuts, bolts, and washers shall be stainless steel. All hinges and hinge pins shall be stainless steel. No surface of the pedestal shall be deflected inward or outward more than 1/16” measured from the intended plane of the surface.

A hinged dead front plate with cutouts for the handles of the breakers and the switch shall be provided. A hinged outside door equipped with a heavy duty draw latch and two (2) heavy duty hasps suitable for padlocking shall be provided for the service section. The dead front panel on the service enclosure shall have a continuous stainless steel piano hinge.

Service enclosures shall be factory wired and conform to NEMA Standards. All control wiring shall be stranded copper, No. 14 AWG THHN/THWN rated for 600 Volts. All control wiring shall be marked with permanent clip sleeve wire markers. Felt, pencil, or stick back markers will not be acceptable. A copy of the wiring diagram for the service pedestal shall be enclosed in plastic and mounted on the inside of the service section.

The terminal lugs or strips shall be copper or alloyed aluminum. All terminals shall be compatible with either aluminum or copper conductors.

The service pedestal shall have provisions for the installation of up to a total of 16 single-pole circuit breakers, including brass links and mounting hardware. All copper wiring used for main bussing shall be No. 2 AWG THHN/THWN and rated for 125 amperes. Branch circuit panel shall use loop wiring rated for 105 amperes with THHN/THWN insulation. All circuit breakers, contactors, and wire shall be listed by UL or ETI. The pedestal shall conform to the NEMA 3-R standard.

Nameplates of a reasonable size identifying the control unit therein shall be installed on the dead front panel. Nameplates shall be black laminated with a white plastic center. All nameplates shall be fastened by screws.

The entire service pedestal shall be constructed with the highest quality workmanship and shall meet all applicable codes. Complete submittal drawings on all substitutions shall be submitted to the Engineer in accordance with Section 34-3 of the Standard Specifications. If the proposed
substitute is rejected or if the submittal is not made within the specified time, the specified equipment shall be furnished.

Street light "ON" and "OFF" control will be by photo-electric cell. All conduits and wires shall be furnished and installed by the Contractor.

Mounted in each metered service pedestal shall be the following equipment:

1. One (1) 100Amp, 2 Pole, 120/240V, 10KAIC circuit breaker. Each main breaker shall have internal common trip. Each pole shall have individual on-off control and handle tie for common operation. Breaker shall be Siemens or approved equal.

2. One (1) 15Amp, 1 Pole, 120V, 10KAIC circuit breaker for control circuitry. Breaker shall be Siemens or approved equal

3. Six (6) 40 Amp, 1 Pole, 120, 10KAIC circuit breakers for street lighting. Breakers shall be Siemens or approved equal. These breakers are not metered when used in Traffic Signal application.

4. Two (2) 60 Amp, 3-pole, 120/240V contactors. Normally open, mercury contactors. Contactors shall be Durakool, or approved equal.

5. Photocell 120 VAC by Torx (5001M) or approved equal.

6. One oil tight "Hand-Off-Auto" selector switch.

7. One solid copper neutral bus.

8. Incoming terminals (landing lugs).


10. Terminal strips for conductors within the cabinet.

11.19 Metered Electrical Service For Traffic Signals

The new metered service pedestal shall be supplied and installed as shown on the Plans and shall conform to the serving utility requirements. Service shall be wired for 120/208 volts or 120/240 volts and single phase as shown on the Plans.

4 Jaw meter for 120/240 Volts application.
5 Jaw meter for 120/208 Volts application.

The Contractor shall connect the luminaires to the circuits designated on the Plans. Contractor shall also install the service conduit and wires to the SMUD service point in accordance with SMUD's requirements. The Contractor shall protect and lock the service pedestal during construction. After construction is completed, the Contractor shall provide for each pedestal a master lock which will accept a Type 2214 key.
The service pedestal shall be fabricated in accordance with the dimensions shown on the service pedestal detail drawing in the traffic signals / street lighting standard details in the plan sheets. The overall dimensions of the enclosure shall be 63" high x 12" wide x 7.25" deep. The service pedestal shall consist of a separate metering section and a service section. The meter section shall have a removable cover-top, side, and front sections welded together so that it is rain tight and padlockable.

The service pedestal shall be fabricated from 14 gauge Type 304D stainless steel and as described under the following paragraph in the Caltrans Standard Specifications section 86-3.07A, "Cabinets fabricated from stainless steel shall conform to the following:.... The mounting brackets shall be 10 gauge Type 304D stainless steel. All welds shall be of highest quality and ground smooth and finished so that grind marks are not visible.

The enclosure shall be rain tight and dust tight. All welds shall be ground smooth and finished so that grind marks are not visible. A hinged dead front plate with cutouts for the handles of the breakers and the switch shall be provided in addition to a hinged outside door equipped with a draw latch suitable for padlocking. Galvanized anchor bolts shall be inside or outside the service pedestal as shown on the Plans. 5/8" x 18" x 4" Anchor bolts (set of 4) shall also be provided. The enclosure shall have no screws, nuts, or bolts on the exterior, except utility sealing screws. All screws, nuts, bolts, and washers shall be stainless steel. All hinges and hinge pins shall be stainless steel. No surface of the pedestal shall be deflected inward or outward more than 1/16" measured from the intended plane of the surface.

A hinged dead front plate with cutouts for the handles of the breakers and the switch shall be provided. A hinged outside door equipped with a heavy duty draw latch and two (2) heavy duty hasps suitable for padlocking shall be provided for the service section. The dead front panel on the service enclosure shall have a continuous stainless steel piano hinge.

Service enclosures shall be factory wired and conform to NEMA Standards. All control wiring shall be stranded copper, No. 14 AWG THHN/THWN rated for 600 Volts. All control wiring shall be marked with permanent clip sleeve wire markers. Felt, pencil, or stick back markers will not be acceptable. A copy of the wiring diagram for the service pedestal shall be enclosed in plastic and mounted on the inside of the service section.

The terminal lugs or strips shall be copper or alloyed aluminum. All terminals shall be compatible with either aluminum or copper conductors.

The service pedestal shall have provisions for the installation of up to a total of 16 single-pole circuit breakers, including brass links and mounting hardware. All copper wiring used for main bussing shall be No. 2 AWG THHN/THWN and rated for 125 amperes. Branch circuit panel shall use loop wiring rated for 105 amperes with THHN/THWN insulation. All circuit breakers, contactors, and wire shall be listed by UL or ETL. The pedestal shall conform to the NEMA 3-R standard.

Nameplates of a reasonable size identifying the control unit therein shall be installed on the dead front panel. Nameplates shall be black laminated with a white plastic center. All nameplates shall be fastened by screws.
The entire service pedestal shall be constructed with the highest quality workmanship and shall meet all applicable codes. Complete submittal drawings on all substitutions shall be submitted to the Engineer in accordance with Section 34-3 of the Standard Specifications. If the proposed substitute is rejected or if the submittal is not made within the specified time, the specified equipment shall be furnished.

Street light "ON" and "OFF" control will be by photo-electric cell. All conduits and wires shall be furnished and installed by the Contractor.

Mounted in each metered service pedestal shall be the following equipment:

1. One (1) 100Amp, 2 Pole, 120/240V, 10KAIC circuit breaker. Each main breaker shall have internal common trip. Each pole shall have individual on-off control and handle tie for common operation. Breaker shall be Siemens or approved equal.

2. One (1) 15Amp, 1 Pole, 120V, 10KAIC circuit breaker for control circuitry. Breaker shall be Siemens or approved equal.

3. One (1) 100Amp, 2 Pole, 120/240V, 10KAIC circuit breaker. Each main breaker shall have internal common trip. Each pole shall have individual on-off control and handle tie for common operation. Breaker shall be Siemens or approved equal.

4. One (1) 15Amp, 1 Pole, 120V, 10KAIC circuit breaker for control circuitry. Breaker shall be Siemens or approved equal.

5. Two (2) 60 Amp, 1 Pole, 120, 10KAIC circuit breakers for traffic signal. Breakers shall be Siemens or approved equal. These breakers are not metered when used in Traffic Signal application.

6. Two (2) 20 Amp, 1 Pole, 120, 10KAIC circuit breakers for street lighting. Breakers shall be Siemens or approved equal. These breakers are not metered when used in Traffic Signal application.

7. One (1) 35 Amp, 3-pole, 120/240V contactor. Normally open, mercury contactors. Contactors shall be Durakool, or approved equal.

8. Photocell 120 VAC by Tork (5001M) or approved equal


10. One solid copper neutral bus.

11. Incoming terminals (landing lugs).

12. Solid neutral terminal strip.

13. Terminal strips for conductors within the cabinet.
11.20 Pull Boxes

Shall be in accordance with Section 34-11 of the Standard Specifications, except for the following:

a. All new pull boxes shall be set in place prior to pouring any new sidewalk.

b. Existing pull boxes damaged by the installation of new conduits shall be removed and replaced at the Contractor's expense as directed by the Engineer.

c. All pull boxes shall be placed in sidewalk areas unless otherwise specified on the plans or directed by the Engineer, and shall not be placed in driveways, in vehicular traveled lanes, or in any part of the new sidewalk handicap ramp areas. Unless otherwise specified, pull boxes shall be placed a minimum of 5 feet from existing driveways.

d. Contractor shall cut, remove and replace the concrete to the nearest joint when installing new pull boxes.

e. New pull boxes shall have a minimum of 6” of new concrete around all sides in sidewalks.

f. For pull boxes to be removed, holes or depressions resulting from the removed pull box shall be filled, compacted, brought to grade, and filled to match surrounding materials.

g. Pull boxes shall be placed as shown according to the details shown on the Plans and according to these Special Provisions.

h. Install pull box on top of crushed rock foundation. Adjust pull box to grade. The crushed rock foundation shall have a minimum of 12” in depth and continue to extend a minimum of 6” beyond the outside edge of the pull box. Compact crushed rock while maintaining integrity of conduit. Conduit and pull boxes shall not be damaged nor cracked.

i. In instances where the pull box is installed in a planter box or dirt areas, the pull box shall be set to grade with a concrete ring, as shown in the standard detail drawings.

Locking Pull Box Security Lids for Street Lighting

1. No locking Security Lids shall be use on Pull Boxes containing traffic signal wiring.
2. All No. 5 and No. 6 Pull Boxes containing street light wiring shall have steel security lids with locking key bolts.
4. Security Keys shall be Bryce Fastener 1GBP50 or approved equal.
5. Lid shall be 1/4” thick minimum galvanized steel.
6. Lid shall be manufactured with slip resistant surface.
7. Lid shall be non-traffic rated, unless otherwise specified.
8. Lid shall be equipped with a lock mechanism which can be secured from the top of lid.
9. Lock bolt shall be recessed in 1 inch diameter circle
10. Lid shall be flush with top of pull box when the lid is completely secured and locked to the pull box.
11. No. 5 pull boxes shall have a single cam locking system, or approved equal.
12. No. 6 pull boxes shall have a double cam locking system, or approved equal.
13. Lid shall have a grounding lug.
14. Supply five sets of keys for the locks.
15. Supply two sets of lifting tools for the lid.
16. Lid shall be free of scratches, defects, and debris. Provided Lids shall be installed new.
17. Pull Box Lid shall be manufactured by LockLid Secure Utility Enclosure Lids manufactured by Jensen MetalTech or approved equal. Approved equal includes Sipra Corp and Wesco Mr Steel.
   o #5 PB - LockLid 1324 Lid LL K-S TrxPlt Sac G1v;
   o #6 PB – LockLid 1730 Lid LL K-SD TrxPlt Sac G1v).
   o #5 PB Sipra Corp’s Lockjaw! Security lids
   o #6 PB Sipra Corp’s Lockjaw! Security lids
   o #5 PB WESCO’s Mr. Steel Security Security lids
   o #6 PB WESCO’s Mr. Steel Security Security lids
18. A steel welding plug shall be provided by the manufacturer to be inserted into the 1 inch diameter recessed lock

11.21 Traffic Signals and Fittings
Traffic Signal Standards and Lighting Standards shall be in accordance with the latest California Department of Transportation Standard Plans, unless otherwise specified in these Specifications or Plans.

A. Forms and Concrete and Debris

Remove concrete forms on traffic signal standards and service pedestals upon project completion. Remove all plywood, forms, excess and leftover concrete, and other debris as a result from construction upon project completion.

B. Vehicle Signals

All signal heads, louvers, backplates, and framework shall come in black color.

Each mast arm mounted signal head shall be all 12" diameter sections.

Vehicle signal housings shall be either die cast or permanent mold cast aluminum conforming to ANSI Standard D-10.1. Vehicle signal faces shall conform to Section 86-4.01, "Vehicle Signal Faces", of the State Standard Specifications.

Metal backplates shall be provided for all vehicle signal heads furnished. Backplates shall be louvered, not solid.
Traffic signals shall utilize tunnel visors.

All traffic signal lamps shall be accessible from the front of the traffic signal head and shall be directly accessible for removal and replacement by the opening of the hinged front lens section and hood. Backplates for MAS mounted vehicle signal heads shall have approved filler plates to prevent light from showing through at the elevated plumbizers.

C. Light Emitting Diode (LED) Signal Modules

ALL SIGNAL HEAD DISPLAYS SHALL BE LED MODULES. All modules shall be listed on the Caltrans Approved Material List for LED Traffic Signal Modules.


LEDs shall have full ball appearance.

All LED modules shall meet California Department of Transportation (CalTrans) and Institute of Traffic Engineer (ITE) minimum requirements. CalTrans specifications shall take precedence and supercede all ITE requirements if there are requirement conflicts.

Front shell shall be Clear, not Tinted.

D. LED Countdown Pedestrian Signals

All pedestrian display shall be the combination Raised Hand/Walking Person figure and Countdown timer only. All pedestrian heads and framework shall come in black color.

Pedestrian signal face modules shall be designed to mount behind or replace the existing faceplate of Type A Pedestrian housings as specified by the requirements of the ITE Standards, “Pedestrian Traffic Control Signal Indications”, and the MUTCD. The pedestrian signal shall have an operating range of 80VAC to 135VAC. The pedestrian signal shall be fused and provide transient suppression for protection of line and load. The pedestrian signal shall have a high power factor > 0.9. The pedestrian signal shall have < 20% harmonic distortion.

The design of the modules shall require a specific mounting orientation. Each module shall provide an average luminous intensity of at least 3,750 candela/m2 for Upraised hand and 5,300 candela/m2 for the Walking person symbol throughout the useful life over the operating temperature range.

The uniformity ratio of an illuminated symbol shall not exceed 4 to 1 between the highest luminance area and the lowest luminance area in the module.
The color output of the module shall conform to the requirements of the ITE: "Pedestrian Traffic Control Signal Indications" and the MUTCD.

The Hand Man symbols shall conform to all applicable ITE and CalTrans requirements. Raised Hand shall be Portland orange. Walking figure shall be lunar white. The module shall not require special tools for installation. The module shall fit securely into existing pedestrian signal section housings built to the PTCSH specifications without modification to the housing.

The pedestrian signal face shall be no less than 16" high. Aluminum housing.

The modules shall be a self-contained device, not requiring on-site assembly for installation into an existing Type "A" housing. The pedestrian signal shall be capable of displaying the LED "Raised Hand" legend. The numeral portion shall consist of two (2) seven segment digits, constructed of a minimum of 2 rows of LED’s, simultaneously. The pedestrian signal shall use overlays to diffuse the LED’s and provide uniform light dispersion while keeping the symbols clear and distinct. The signal shall be configurable, such that the countdown timer can start at the beginning or the end of the "Walk" portion of the pedestrian phase. Initially, the Contractor shall set the signal such that the Countdown timer starts at the beginning of the flashing "Don’t Walk/Raised Hand" portion of the phase and ends at the beginning of the solid "Don’t Walk/Raised Hand" portion of the phase.

Modules shall have hinged hand/man.

E. Mounting Hardware

All slipfitters and terminal compartments shall be cast bronze. Clam shell mounting assemblies shall not be used.

No gaskets shall be used between the slipfitter and the traffic signal display. Seal connection with silicon gel.

F. Accessible Pedestrian Signal (APS)

If specified in the Plans, the Accessible Pedestrian Signal (APS) shall be manufactured by Polara Engineering Inc.

- Pushbutton Model: Polara. iNavigator. 2-wire iN2.
- Control Unit: iCCU-S for TS1, TS2 cabinets.
- Control Unit: iCCU-C for 332 cabinets/2070 controller
- Interconnect Board: iN2-ICB for iCCU-S.
- Interconnect Board: iN2-ICB-C for iCCU-C
- Size of Sign: 9x15. Use R10-3e for Pedestrian Displays with Countdown feature.
- Housing Color: Yellow button cover.
- Special Voice Message for Wait to Cross Street Name and Walk Sign is On to cross Street Name.
- No Braile.
- SDLC for TS2 Type 1 cabinets. 850-217 (50 pin harness) for TS 1 cabinets.
The main components of the MUTCD compliant APS consists of a 1) Push Button station that is installed on the traffic signal poles providing a vibrating arrow button and audible sounds, and 2) Control Unit that is installed in the traffic signal cabinet. All sounds emanate from the front and back of the push button. A sunlight-visible red LED toggles to “ON” with tactile feedback to confirm the button has been pushed. Vandal resistant designed body and pushbutton

APS shall be installed in accordance with the City of Sacramento’s APS Implementation Guidelines.

1. Push Button Station:

   a. A Push Button Station receives pedestrian crossing requests and provides visual, audio, and speech pedestrian messages to aid street crossing. The Push Button Station shall be installed per the latest requirements of the California MUTCD. The pushbutton shall be constructed of cast aluminum or equal, painted with yellow background, black crossing logo, a tactile arrow indicating the direction of crossing it services, and an integrated two-inch diameter pushbutton. When the pushbutton is activated, the pushbutton shall confirm each activation by visual, audio, and vibrotactile feedback.

   b. Audio messages shall be via integrated, sealed, and weatherproof speakers capable of emitting locator tone and speech messages. Audio output shall be up to 10 watts RMS. Each audio output shall have an automatic volume control up to 28dB. There shall be independent maximum and minimum volume settings for locator, walk, and clearance. Audible locator tone shall be at 880 Hz, 100 msec duration, 1 sec interval. Each pushbutton activation shall cause an audible click. An extended activation on any pushbutton shall mute the entire intersection except selected crosswalk. All audible tones and sounds shall be synchronized to minimize confusion and audio clutter.

   c. Vibrotactile shall be integrated into the pushbutton and shall be energized during the WALK interval.

   d. The pushbutton shall be speech message capable. When activated, speech message volume shall be adjustable up to a maximum of 89 dB and up to 5 dB above the ambient noise measured at the pushbutton level. Speech messages shall include programmable pushbutton and crossing messages. Pushbutton message shall be, “Wait to cross (name of street) at (name of other street.)” Crossing message shall be, “(Name of street.) Walk signal is on to cross (name of street.)” For exclusive pedestrian phases, the crossing message shall be, “Walk signal is on for all crossings.” Speech messages shall repeat at the rate of 1 hertz from the beginning of the appropriate phase to the end of the phase.

   e. The pushbutton shall operate in temperatures between -20 to +150 degrees

2. Control Unit:
A Control Unit (CU) provides the interface between the traffic signal controller and PIUs. It passes through pedestrian crossing requests from PIUs to the controller while relaying WALK and clearance timing from the controller to PIUs. The CU shall be a shelf-mounted or rack-mounted unit compatible with TS1, TS2, and Type 2070 controllers housed in Type R or 332 series cabinets. Each CU shall be able to control up to 12 PIUs. The CU shall interface with the controller and PIUs via optically isolated input/output up to 36 volts. The CU shall maintain system settings and diagnostic data retrievable by the System Programmer described below. The CU shall operate in temperatures between -20 to +150 degrees F.

G. Traffic Signal Standards

All mounting hardware to be furnished by the Contractor shall be galvanized

11.22 Traffic Signal Controller, ATC EX2, NEMA TS2 Type 2

A. McCain ATC EX2 - Traffic Signal Controller TS2 Type 2 NEMA

The Contractor shall supply McCain ATC EX2 NEMA controller – traffic signal controller TS 2 Type 2 NEMA with D4 software preloaded. Controller shall have SDLC ports (2) including SP3 routed to NEMA TS 2 Port 1, serial (asynchronous) on front panel (3), ENET 1:100 Base-T Ethernet switch, 1 uplink and 3 additional ports, ENET 2:100 Base-T Ethernet port dedicated for local communication, USB ports (2), display with 16 lines x 40 characters, keyboard with 7x4 keypad (28 key), shelf mount configuration and meet the following:

- NEMA TS 2-2003 v2.06
- ATC 5.2b
- NTCIP base standards (where applicable)
- The D plug shall be designed for type 90 Traconex design. See D plug section of these special provisions

B. Traffic Signal Controller Software

The Contractor shall install Fourth Dimension (D4) Traffic Signal Controller software on controller assembly. The most current version of D4 Traffic Signal Controller software, at the time of controller delivery, shall be fully configured in the controller. The traffic controller software shall collect High Resolution Controller Data recorded 10 times per second and with event codes as defined by Purdue University.

The Contractor shall provide license to the city for the D4 software and shall include basic support and integration for use of this software.
Traffic Signal Controller Software Contact is: Fourth Dimension Traffic, Eric J. Nelson, 3505 Safe Road, Suite 2309, Houston, TX 77056-7182, Phone 832-405-8577. Email: eric@advtraffic.com

C. Manuals

All controllers and software provided under this specification shall be provided with product/operational manuals, which document the operation and maintenance of the equipment in compliance with TEES. The Contractor shall submit operating manuals, technical data sheets, product cut sheets, and any associated documentation for the controller unit delivered as part of this specification. Manuals shall be printed on 8.5” x11” paper. Schematic, layouts, parts list, and plan details may be on 11”x17” sheets. The manuals shall be bound in durable covers, and shall not suffer degradation when subjected to normal cabinet temperature testing. All manuals with printed copies shall be also be submitted electronically.

D. Warranty.

The traffic signal NEMA controller TS2 Type 1 and components/modules shall have a full warranty for manufacturer defects and workmanship, including parts and labor for a minimum of five (5) years from the date of purchase. Identification of manufacturer defects shall be determined by the city.

11.23 Traffic Signal Controller Software

The Contractor shall install Fourth Dimension (D4) Traffic Signal Controller software on each controller assembly. The most current version of D4 Traffic Signal controller software, at the time of controller delivery, shall be fully configured in the controller.

The Contractor shall provide a D4 license to the City for each controller assembly. The license shall include technical support and user manual of this software.

The contact for the traffic signal controller software is as follows:

Fourth Dimension Traffic

Eric J. Nelson,
3505 Safe Road, Suite 2309,
Houston, TX 77056-7182,
Phone 832-405-8577.
Email: eric@advtraffic.com

General Controller Software Features

1. 16 phases
   a. Three maximum times per phase with dynamic max operation
   b. Minimum, maximum, soft recall modes
c. Early and delayed “Walk” timing

d. Conditional service during free and coordination with conditional service minimum green time

e. Manual control operation with selectable call, omit, and protected pedestrian clearance phases

f. Per phase preempt timing

2. 4 rings (Single intersection or two independent intersections)

3. 16 timed overlaps

   a. Vehicle and pedestrian movement for each overlap
   b. Actuated pedestrian movements
   c. Early and delayed “Walk” timing
   d. Pedestrian overlap rest-in-walk across multiple phases
   e. Per overlap preempt timing

4. 8 transit phases

   a. Two and three section signal head controls for light rail vehicles
   b. Advanced warning sign control per transit phase
   c. Recall or actuated operation
   d. Normal or priority service

**Detector Features**

1. 64 vehicle detectors

   a. Programmable call and extend phases
   b. Extend and delay timing
   c. Stop bar disconnect mode with carryover (extend) timer
   d. Detector cross-switching
   e. No presence and max fail detector diagnostics (disabled by TOD)

2. 16 queue detectors

   a. Detects traffic backups
   b. Capable of selecting alternate coordination patterns, selecting alternate maximum green times, or calling a preempt
   c. Advanced green to clear vehicle movements prior to transit vehicle arrival

3. 16 pedestrian detectors

   a. Programmable calls for pedestrian and vehicle phases
   b. Pedestrian cascade mode (sequential calling of two pedestrian movements)

4. 8 transit detectors

   a. Programmable calls for transit and vehicle phases
   b. Extend and delay timing
   c. Travel time delay
   d. Alternate travel times by TOD
   e. Adaptive arrival time adjustment
5. 32 remote transit detectors
   a. Calls received by transit detectors at other intersections (on peer-to-peer Ethernet network)
   b. Travel time delay
   c. Alternate travel times by TOD
   d. Adaptive arrival time adjustment

Coordination Features

1. 32 coordination patterns
   a. Cycle time and three offsets per pattern
   b. Flexible per phase split expansion and shrinking during transition
   c. Fixed or floating force-offs (per phase)
   d. Automatic permissive calculations

2. Single-band or multi-band permissive modes with permissive limit timer

3. Three pedestrian permissive modes
   a. Programmable recalls and omits active during each pattern
   b. Actuated coordinated phases can gap-out early and distribute unused time to movements with greater demand
   c. Selectable reservice phases (a.k.a. "fully actuated coordination")

4. Multiple interconnect modes
   a. Time based scheduler
   b. Central system command (over twisted pair or Ethernet connection)
   c. 120 volt interconnect cable

5. Master controller mode
   a. Controller can operate as a twisted pair, Ethernet, or 120 volt cable master in the absence of a central management system

Preemption Features

1. 10 prioritized preempts
   a. Two track clearance states, dwell state, and exit state per preempt
   b. Permit or allow any phase and overlap individually for each preempt state
   c. Presence preempt input with optional fail-safe interlock input
   d. "Check-in / Check-out" preempt detection option with check-out override timer

2. 4 soft preempts
   a. "Step-by-step" preempt (special preempt sequence)
   b. 8 states per soft preempt sequence (timed or actuated)
   c. Each state allows programmable calls, omits, holds, and force-offs for each phase and overlap

Transit Priority Features
a. Programmable transit priority options for each transit phase
b. Operates based on estimated arrival times using local intersection detection and remote ("peer-to-peer") detection from upstream intersections
c. Separate options for free or coordinated operation
d. Extend only (no phase abbreviation) or Early/Extend operation
e. Minimum phase green times
f. Maximum extend limit
g. Optional vehicle/pedestrian phase omits
h. Ability to switch to alternate sequence to better serve early arriving transit vehicle
i. Adaptive arrival times to automatically compensate for fluctuating station dwell times

Status / Diagnostic Features

1. Detailed controller status displays through the 2070 LCD display
   a. Phase, ring, and overlap status
   b. Transit phase/priority status
   c. Coordination status
   d. Preemption status
   e. Vehicle and pedestrian detector status
   f. Cabinet / Field I/O status
   g. System communication status

2. 6000 controller event log
   a. Multiple classes of events can be individually enabled for logging
   b. Retrieved and reset from central connection (serial or Ethernet)

3. 62.5 day detector VOS log
   a. Log VOS for 16 system detectors each 15 minutes

4. 600 MMU event log
   a. Detailed MMU events, including reason for failure and state of field outputs

5. The traffic controller software shall collect High Resolution Controller Data recorded 10 times per second and with event codes as defined by Purdue University.

Cabinet Support

1. NEMA TS1, TS2-Type 1 and Type 2, Caltrans 332/336, and ITS cabinet support
2. All controller input and output functions can be mapped to any physical cabinet input and output
3. "Peer-to-Peer" interconnect over Ethernet (select outputs or inputs from the source intersection to activate a function at the local intersection)
4. Cabinet logic channels to accomplish custom controller I/O operation

Protocol Support
1. Communications over serial port, twisted pair, or Ethernet (fiber-optics)
2. Caltrans AB3418E with extended messages for extended status and D4 specific functionality
3. Future NTCIP compliance

E. Testing

The Contractor shall comply with electrical, environmental and testing requirements defined in the TEES. The Contractor shall comply with all testing, quality control and reporting procedures specified in the TEES

11.24 332 Cabinet (Communication Hub)

1. The work to be performed for this item, in general, includes furnishing and installing all necessary equipment and materials for the installation of a 332LS cabinet (communication hub) as indicated on the Plan sheets and these Specifications.

2. Contractor shall provide a new 332LS traffic signal cabinet as specified in these Specifications. Contractor shall also construct new foundation and install the traffic signal cabinet.

3. This cabinet will be used as a communication hub, therefore there is no controller.

4. The cabinet shall be equipped with 19-inch EIA rack, ventilation fan, louvered air intake in door, pleated filter, LED light, PDA #2 Power Distribution assembly and Tripplite model ISOBAR12ULTRA 19” surge suppressor. The cabinet shall have 5052-H32 aluminum with 0.125 inch thickness and supplied with a set of anchor bolts, per manufacturer specifications.

5. Contractor shall also extend new conduits, conductors, and cables into the new traffic signal cabinet. Contractor shall also extend power conductors to the hub.

Work also includes removing all project related Underground Service Alert (USA) marks from the project site. Contractor shall also remove all tire marks, equipment marks, machinery marks, and other liquids, such as oil and machinery coolant, on the sidewalk, driveway, curb ramp areas that was caused by the contractor during construction.

11.25 Traffic Signal Cabinet, TS2 Type 1, Type ‘R’

The traffic signal controller cabinet shall be a TS2 Type 1 R44 cabinet. It shall be 77 inches high x 44.5 inches wide x 26 inches deep. For the bolt pattern, refer to Caltrans 2006 Standard Plan ES-3A. It shall have 16 phases of outputs, 64 channels of loop detection inputs, and conform to the following:

A. State of California Specifications

Unless otherwise noted, the enclosure specification shall meet or exceed the State of California, Department of Transportation, Standard Specifications, dated 2010, Section 86-3.04A and Standard Plans, section ES-3.
B. NEMA Specifications

Unless otherwise noted, the cabinet shall adhere to the latest NEMA TS 2 Type 1 specifications.

C. City of Sacramento Specifications

The City of Sacramento traffic signal cabinet specification shall supersede any applicable parts of the State of California, Department of Transportation Standard Specifications and Standard Plans.

D. Cabinet Construction

1. General

Controller cabinets shall be constructed from type 5052-H32 bare aluminum with a dull finish and a minimum thickness of 0.125 inches and be 3R weather rated.

All cabinets shall come with a ten (10) year warranty on the enclosure and cabinet wiring.

Each cabinet shall be provided with two (2) lifting eyes for placing the cabinet on its foundation in the down position. Each eye opening shall have a minimum diameter of 0.75 in. Each eye shall be able to support a weight load of 1000 pounds. All exterior bolt heads shall be tamperproof type.

Machine screws used for mounting equipment on doors or walls of the cabinet shall have inside nuts.

The door latching handles shall have provision for padlocking in the closed position. Each handle shall be 0.75 in minimum diameter cast aluminum or zinc-, cadmium-plated steel, or stainless steel with a minimum 0.5 in shank. The padlocking attachment shall be placed at 4.0 in from the handle shank center to clear the lock and key. An additional 4.0 in minimum gripping length shall be provided.

Louvers shall be located in the lower one-half of the door. All cabinets shall be supplied with pleated dirt filters (ECO/AIR E-35-S) or equivalent, capable of filtering peat dirt. The filters shall be 12" x 16" x 1".

A police panel shall be located in the upper center outside of the door. The panel shall have a Signal On/Off switch and an Auto/Flash switch.

A maintenance door panel shall be mounted on the inside of the cabinet door on the back side of the police panel. The panel shall have twelve (12) 3-position detector switches for each of eight (8) vehicle and four (4) pedestrian phases. The switches shall operate as fixed, normal, and momentary, top to bottom. They shall be labeled for each phase. Six (6) pushbuttons shall be provided to test the preemption inputs and labeled RR 1, (blank), EVP 1 (3), EVP 2 (4), EVP 3 (5), EVP 4 (6). There shall be a Controller On/Off switch and an
Auto/Flash switch. There shall be a three (3) position Stop Time switch; Flash Stop Time On/Off/Manual Stop Time On. There shall be A GFI duplex outlet provided.

The controller cabinet shall have a light and fan panel mounted in the top of the cabinet. Each panel shall be equipped with two (2) electric fans with ball or roller bearings and a capacity of at least 100 cubic feet per minute each. Each fan shall be separately fused and thermostatically controlled to the requirements of Section 86 of the State Specifications. There shall be two (2) LED cabinet illumination panels, Relume Technologies #796-5000 or approved equal. One mounts in the fan housing towards the front of the cabinet and the other under the document drawer. The power supply for the panels shall be mounted in the top of the cabinet and shall be 24VDC, 4 Amp. The light shall be rated 100,000 hours per LM 70. Light engine shall be fully recyclable. There shall be a door switch to turn on power to the light panels when the door is open. When the door is closed, the switch shall remove all power to the light panels.

The field terminal blocks for the signal indications on the load bay, the detector terminal blocks on the field input panel, and the power terminal block on the power panel shall be barrier type with marker strips and shall be provided with 10-32 by 5/16-inch minimum nickel or cadmium plated brass binder head screw and square metal threaded inserts. Round knurled inserts will not be accepted.

All assemblies that are connected in this cabinet shall be connected via hard wire, no quick disconnect or plug and play is accepted.

No other equipment within the controller cabinet shall use a socket that will accept a flasher or a flash transfer relay.

If relays are required other than the flash transfer relay, they shall be octal relays.

With MMU device disconnected or controller power off, the intersections shall go into flashing operation and remain in flashing operation until controller power is turned on. (THE CITY WILL NOT ACCEPT THE CABINET IF THE INTERSECTION GOES DARK INSTEAD OF FLASH.)

All labels shall be silkscreen or phenolic screw on type. No adhesive or sticker labels will be accepted. Font shall be Times New Roman. Font size is determined by location.

2 Left Cabinet Wall

Bottom Field Input Panel: The bottom eight (8) terminal positions on the last terminal block shall be allocated for pedestrian push button and pedestrian common (return) wires. The rest of the terminal positions shall be allocated to detector cable input wires. There shall be sufficient terminal positions for eight (8) pedestrian inputs, two (2) pedestrian returns and sixty-four (64) loop inputs (32 channels).

Top Field Input Panel: Shall be wired for sixty-four (64) loop inputs (32 channels).
Detector Programming Panels: All the detector outputs and detector green inputs shall be wired to two (2) detector programming panels, the first 32 channels to one and the second 32 channels to the other. 01-08 greens shall be wired to the first panel. 01-08 vehicle call switches on the maintenance door panel shall be wired to the first panel.

SDLC Hub: All cabinets shall come with an SDLC hub with a minimum of eight (8) connectors. All connectors shall be mounted on a PC board. All SDLC cables shall be Belden 9506 or approved equal. The backshell/cable clamp shall be metal and the cable appropriately strain relieved.

Opticom cables shall be terminated on the detector power supply panel.

3. Right Cabinet Wall

Power Panel: The Signal controller, TS2 power supply, any other auxiliary power supplies, detector power, etc. shall be protected by the surge protector. The protection device shall be an Edco ACP340, SHP300-10 or approved equivalent device and come with a seven (7) year warranty. The mercury contactor shall be replaced with a normally open, solid state relay and shall be CST Crydom CWA4850, MDI HPR48A50, Omega SSRL 240AC50, or approved equal. There shall be three (3) circuit breakers, a twenty (20) Amp, for the signal circuit, a fifteen (15) Amp for the auxiliary circuit, and a fifteen (15) Amp for the outlet strip. An fifteen (15) position earth ground bus bar and a fifteen (15) position neutral bus bar will be provided. It may be a screw type copper bar as specified in the CalTrans spec or a compression type with holes that will accept 14-8 AWG wire. The service AC- and bond wire will terminate on the bus bars. A place will be provided for the service AC+ on a terminal strip with a field lug and it shall be an ILSCO #SLUH-35 or approved equal. A 3 position block of type Marathon CAT: 1423570, 1423307, or equal will NOT be accepted.

Outlet strip: All cabinets shall have a Tripp-Lite outlet strip model ISOBAR6ULTRA or approved equal and shall be connected to CB-3. Outlet strip shall be mounted on aluminum stock.

DIN Rails: There shall be 2 DIN rails mounted on aluminum stock for DIN rail devices.

4. Center of Cabinet

Each controller cabinet shall be provided with three (3) shelves to house the controller, rack mounted detectors and any other equipment supplied, mentioned in the specifications and/or shown on the plans. The top shelf shall contain the all detector amplifiers, and any preemption equipment. The middle shelf shall contain controller and power supply. The bottom shelf shall contain the MMU. The shelves shall be perforated to allow air flow.

See attached Cabinet Layout drawing for mounting heights of shelves.

An On Battery LED shall be mounted on the underside of the top shelf and shall be readily visible when the door is opened. The LED is part of the BBS relay circuitry located in the loadbay.
MMU, power supply, BIU, and controller cables, when not connected to controller or monitor, shall not be long enough for connectors to touch AC field wiring terminals (potential shorting problems).

A pull-out laptop computer shelf shall be incorporated below and attached to the bottom shelf. This pull-out shelf shall be 22" wide x 12.5 deep and provide an opening under the bottom shelf lip of 2.5" to be used as a document drawer.

Load Bay:
The load bay shall be designed to fold down from the top to gain access to the back side. No part of the load bay shall stick out of the load switches. The load resistors for load switches 9 – 12 yellows shall be mounted on the back of the load bay. Load bay shall be silk screened on front, showing all positions, e.g. O1, O2.

Load bay shall accommodate two (2) Bus Interface Units (BIU).

With respect to TS2 color output channel assignments, default channel, and therefore load switch and MMU wiring, assignments on the load bay shall be as follows:
   a. Channels 1 - 8 shall be assigned to Vehicle Phases 1 - 8 respectively.
   b. Channels 9 - 12 shall be assigned to Pedestrian Phases 2, 4, 6, and 8 respectively.
   c. Channels 13-16 shall be assigned to Overlap Phases A, B, C, and D respectively.

Field lugs shall be supplied on all colors for each vehicle and pedestrian phase and each pedestrian pushbutton and pushbutton return. The field lugs shall be ILSCO #SLUH-35 or approved equal.

A battery backup relay shall be mounted on the load bay.

All power connectors for controller, MMU, and power supply shall be “MIL-SPEC” with no exceptions.

All cables for the power supply and MMU shall feed up from the front of the shelf.

There shall be two (2) controller power cables.
   a. One shall be a NEMA TS1 “A” and feed from the front of the middle shelf.
   b. The other shall be a NEMA TS2-1 power connector for the traffic signal controller interface board and feed up from the back of the middle shelf with enough slack so that the controller can be turned sideways to access the cable connectors.

The controller SDLC cable should be long enough to feed up from the front or from the back, depending on the type of controller.

The BIU connectors in the load bay and detector racks shall be mounted on PC boards.

The cabinet shall be capable of sixty-four (64) channels of detection. Two thirty-two (32) channel racks may be hard wired or PC board. The detection racks shall accommodate two
BIU’s, eight (8) - four channel half width (1.0") detectors and either two (2) - two channels or one (1) - four channel Opticom discriminators in the first rack. The racks shall be no more than 18 ¾" wide and 5 ¾” high.

E. Auxiliary Devices

All auxiliary devices shall conform to the Requirements of the NEMA TS2 Type 1 Standards.

The cabinet shall be equipped with all necessary auxiliary devices to operate a traffic signal with eight (8) vehicle phases, four (4) pedestrian phases and four (4) overlaps. The main auxiliary devices are listed below.

1. Load Switches
   a. The Load Switch shall be designed for use in traffic signal controller cabinets in accordance with NEMA TS2 Standards, Section 6.2.
   b. Load switches shall have a heavy duty aluminum heat sink chassis to allow triac device to operate with the full load current. 10Amp RMS Maximum Load Current over NEMA temperature range. Operating voltage range of 60 to 135VAC.
   c. Unit shall contain three electrical independent circuits. The front of the load switch shall be provided with three indicators to sow the input signal from the controller to the load switch. Maximum load current output in de-energized condition is less than 10 mA peak.
   d. Sixteen (16) Load Switches shall be supplied (8 vehicle, 4 peds, 4 overlaps). EDI Model 510 Load Switch or equal for use in NEMA TS2 Type 1 cabinet.

2. Solid State Flashers
   a. Solid State Flashers shall be in accordance with NEMA TS2 Standards, Section 6.3.
   b. Flasher shall have a heavy duty aluminum heat sink chassis to allow triac device to operate with the full load current.
   c. 15Amp RMS Maximum Operating Load Current over full NEMA temperature range.
   d. Operating voltage range of 60 to 135VAC.
   e. A minimum of 56 flashes/minute.
   f. EDI Model 810, Reno Model FL-200 or equal.

3. Malfunction Management Units (MMU)
   a. MMU shall be designed for use in traffic controller cabinets in accordance with NEMA TS2 Standards, Section 4.
   b. The MMU shall be a Type 16
   c. One (1) conflict monitor shall be supplied. EDI Model MMU-16LE, Econolite MMU-16, or Reno MMU-1600G.
4. Bus Interface Units (BIU)
   a. The BIU shall be designed for use in traffic signal controller cabinets in accordance with NEMA TS2 Standards, Section 8.
   b. All BIUs shall provide three separate front panel indicators for Power, Transmit, and Valid Data.
   c. Six (6) BIU shall be supplied. Two BIU shall be placed in the Load Bay. Four BIU shall be placed in the Detector Racks. EDI Model 700 or Econolite BIU-64.

5. Cabinet Power Supply
   a. The cabinet power supply shall meet all TS2 Section 5 requirements.
   b. The power supply shall regulated DC power, unregulated AC power, and a line frequency reference for the Detector Rack, BIU, load switches and auxiliary equipment.
   c. Power Supply shall have LED indicators showing output status and fuse integrity for three supply outputs.

6. Flasher Transfer Relays
   a. All Flasher Transfer Relays shall be solid state and conform to the requirements of NEMA TS2 Section 6.
   b. A full complement of relays shall be supplied with cabinet to allow for maximum phase utilization.

7. Inductive Loop Detectors
   a. Four Channel Rack Mount Detector for TS2 Type 1 traffic signal cabinet.
   b. Meets NEMA TS 2 specifications.
   c. Single width (1.12” or 1.14” wide).
   d. Eight (8) inductive loop detectors shall be supplied. RENO A&E Y/2-200 four channel rack mount detector or approved equal.

F. Equipment Drawing

Equipment drawings shall comply with Section 86-1.04 of the State Specifications and these specifications, with the following changes:

The cabinet print shall be laid out on two (2) “D” size sheets.

Sheet one (1) shall have the remaining panels, load bay, cables, fans and lights, SDLC Hub Panel, power supply, maintenance malfunction unit (MMU), controller, connector wiring Power Panel, Outlet Strip, and door Maintenance Panel with police panel.
The detector field inputs panels, detector racks, and detector programming panels shall be on sheet two (2).

The operation manual for each component shall be provided.

Three (3) prints of the cabinet-wiring diagram shall be supplied with each controller cabinet in addition to an electronic copy. One copy of the cabinet print shall be enclosed in the document drawer under the controller shelf.

Entire cabinet schematic wiring diagram shall also be submitted in the form of an AutoCAD Drawing (.pdf will not be accepted), either on a disk or by email to jmatoba@cityofsacramento.org. John Matoba, City of Sacramento, 916-808-7891.

G. Cabinet Delivery and Acceptance

The cabinet shall be delivered to the City of Sacramento South Area Corporation Yard.

The cabinet will be tested for complete operation and inspected for conformance to these Special Provisions at the City Traffic Signal Shop. The Contractor shall have an authorized service engineer from the cabinet manufacturer available at the City’s Corporate Center South within one (1) working day after notification to correct all minor malfunctions or make minor modifications to meet these specifications. If major adjustments, modifications or repairs to the cabinet are required to meet these specifications, the Contractor shall be required to repair or modify the cabinet(s) in question at no additional cost to the City. The contractor shall be responsible for all shipping charges for any cabinet(s) that are returned for major repairs or modifications. The Contractor shall also be required to repair or replace any equipment that fails to function properly during testing and inspection. The City shall have 30 calendar days from the date of receipt to test and inspect the cabinet.

H. Guarantee

The Contractor guarantees the cabinet, materials and devices of whatsoever nature incorporated in, or attached to the cabinet, to be free of all defects of workmanship and materials for a period of one (1) year after final acceptance by the City of Sacramento. The Contractor shall repair or replace any or all equipment or material, together with all or any other equipment or material which may be displaced or damaged in so doing, that may prove defective in workmanship or material within said one (1) year guarantee period without expense or charge or any nature whatsoever to the City.

In the event that the Contractor should fail to comply with the conditions of the foregoing guarantee within (10) days time, after being notified of the defect in writing, the City shall have the right, but shall not be obligated to repair, or obtain the repair of the defect and the Contractor shall pay to the City on demand all reasonable costs and expense of such repair. In the event that any defect in workmanship or material covered by the foregoing guarantee results in a condition which constitutes an immediate hazard to the health or safety, or any property interest, or any person, the City shall have the right to immediately repair, or cause to be repaired, such defect, and the Contractor shall pay to the City on demand all reasonable costs and expense of such repair. The foregoing statement relating to hazards to health, safety or property shall be deemed
to include either temporary or permanent repairs, which may be required as determined in the sole discretion and judgment of the City.
TS 2 – Type 1, Type ‘R’

Field Input Panel, Thermostat and Fan Panel,
MMU Programming Card, Conflict Monitor
TS 2 – Type 1, Type ‘R’
BIU (Terminal Facility)
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TS 2 – Type 1, Type ‘R’
Maintenance Panel, Power Panel, Flash Programming
Load Switches, Outlet Strip, Resistors
11.26 Video Detection System – Econolite Vision
In general, the video detection system shall provide real time detection of vehicles, bicycles and motorcycles entering the camera’s field of view with an accuracy of 99% minimum, when compared to conventional inductive loops. The detection shall be reliable, consistent, and perform under all weather, lighting, and traffic congestion conditions. The video detection
system consists of video sensors, a communication interface panel, mounting brackets and cabling hardware. For 33X cabinet with Model 2070 controller, the video detection system will include an input/output card mounted in th(e input file.

**Video Detection System Hardware**

The video detection system shall be an Econolite Autoscope Vision or approved equal.

**Video Sensor**

The video detection system shall include a video sensor that integrates a high-definition (HD) camera with an embedded processor for analyzing the video and performing detection.

**Camera and Processor**

The camera shall be a color CMOS imaging array.

The camera shall have HD resolution of 720p minimum (1280x720 pixels).

The camera shall include a minimum 10X optical zoom to enable stop-line and advance detections. The optical zoom shall be remotely controllable from the TMC for temporary traffic surveillance as well as for maintenance purposes.

The camera shall have direct, real-time iris and shutter speed control by the integrated processor.

The processor shall support H.264 video compression for streaming output.

**Video Sensor Enclosure Assembly**

The camera and processor shall be housed in a sealed IP-67 enclosure.

The faceplate of the enclosure shall be glass and shall have hydrophilic coating on the exterior surface to reduce debris accumulation and maintenance.

The faceplate shall have a thermostatically-controlled indium tin oxide (ITO) heater applied directly on the interior surface to keep the faceplate clear of condensation, snow, ice and frost.

An adjustable aluminum visor shall shield the faceplate from the sun and extraneous light sources. The visor shall not interfere with the full 360° field of view.

An integral aiming sight shall assist in aiming the camera for the detection objectives.

A removable rear cap and cable strain relief shall seal the power connection.

The rear cap shall be tethered to the enclosure to avoid dropping the cap during installation.

The rear cap shall be fastened to the body of the video sensor with a single, captive bolt.

The rear cap and enclosure shall include Gore breathers to equalize internal and external pressure.

The sensor shall be self-supporting on manufacturer’s mounting brackets for ease of installation.

**Power and Communications**
Power and communications for the video sensor shall be carried over a single three-conductor cable of 18 AWG minimum and with a polyethylene jacket. The cable shall be of sufficient length and slag.

Termination of the three-conductor cable shall be inside the rear cap of the enclosure on a three-position, removable Phoenix terminal block. Each conductor shall be attached to the Phoenix plug via a screw connection.

The video sensor shall operate over an input voltage range of 89 to 265 VAC at 50 or 60 Hz.

Power consumption shall be no more than 16 watts maximum including heater.

No supplemental surge suppression shall be required outside the cabinet.

All communications to the video sensor shall be broadband-over-power via the same three-conductor cable that powers the unit. Coaxial cable shall not be required.

**Communications Interface Panel**

The video detection system shall include an interface panel in the traffic cabinet that manages communications between the video sensors, the traffic management center, a maintenance technician, and the traffic cabinet itself.

**Video Sensor Connection**

The communications interface panel shall provide connection points for four video sensors.

Each sensor connection shall be a 3-pole terminal block, which supplies power and broadband-over-power communications to the sensor.

The broadband-over-power communications shall provide a throughput of 70 to 90 Mbps.

The broadband-over-power connection shall support at least 1,000 feet of cabling to the video sensor.

Each video sensor connection shall include a power switch.

There shall be an LED for each video sensor to indicate the state of the power to the sensor and an LED for each video sensor to indicate the status of communications.

Each video sensor connection shall contain a resettable fuse.

Each video sensor connection shall provide high-energy transient protection.

**Traffic Operation Center (TOC) Communications**

An Ethernet port shall be provided to connect to a TOC.

The TOC connection shall support 10/100/1000 Mbps Ethernet communication.

The communications interface panel shall proxy all network requests that arrive on the TOC connection to avoid unwanted network traffic from reaching the broadband-over-power network between the communications interface panel and the video sensors.

All communications to the video detection system through the TOC connection shall be to a single IP address.
Local User Communications

A wired Ethernet port shall be provided to connect the user at the cabinet to the video detection system for setup and maintenance purposes.

The maintenance port shall support 10/100/1000 Mbps Ethernet communication.

All communications to the video detection system through the maintenance port shall be to a single IP address.

The maintenance port shall support DHCP to automatically assign an IP address to the user’s computer, if desired.

An 802.11g Wi-Fi access point shall allow wireless connection to the video detection system at the cabinet for setup and maintenance purposes.

All communications to the video detection system through the Wi-Fi access point shall be to a single IP Address.

The Wi-Fi access point shall support DHCP to automatically assign an IP Address to the user’s computer.

The Wi-Fi access point shall include a dipole, omnidirectional antenna.

A momentary pushbutton shall allow the user to turn the Wi-Fi access point on or off.

The Wi-Fi access point shall turn itself off automatically after a period of inactivity from connected devices.

An LED shall indicate when the Wi-Fi access point is enabled.

The Wi-Fi access point shall operate simultaneously with the wired maintenance port and with the TMC connection.

Traffic Controller Connection

The communications interface panel shall provide one connection to communicate to the traffic controller through the cabinet.

The traffic controller connection shall support a TS2 Type 1 compatible SDLC interface.

The traffic controller connector shall be a 15-pin female metal shell D sub-miniature type connector to support a standard NEMA TS2 or TEES SDLC cable.

The traffic controller connection shall support a protocol interface to SDLC-capable traffic controllers (NEMA or TEES).

The traffic controller connection shall support the NEMA TS2 SDLC protocol to include up to 64 detector outputs and 32 inputs.

The traffic controller connection shall be able to connect to a wired input/output card, which supports wired I/O in cabinets without a SDLC-capable controller.

The wired I/O data communications link shall support at least 24 outputs and 16 inputs. SDLC communications and the input/output card communication shall be able to operate simultaneously.

USB Ports
The communications interface panel shall include two USB 2.0 ports to allow system and application software installation via portable media without removing the communications interface panel from the cabinet.

**Power**

The communications interface panel shall accept input voltage in the range of 89-265 VAC, 50/60 Hz power from the transient-protected side of the cabinet.

The communications interface panel shall be protected by two slow-blow fuses. Two spares shall be attached to the panel.

**Input/Output Card**

The video detection system shall support an input/output card that communicates with the communications interface panel for real-time detection states and other I/O to the traffic controller. The card may reside in a standard detector rack or shelf-mount enclosure with power module.

The input/output card shall comply with the form factor and electrical characteristics to plug directly into a NEMA type C or D detector rack or Caltrans TEES Input File.

The card shall occupy two slots of the detector rack.

The card shall provide four detector outputs on its rear-edge connector.

A front connector shall provide communication to the communications interface panel.

A front connector shall allow 16 inputs and 24 contact-closure detector outputs for wiring into the cabinet.

A front panel LED for each of the 16 inputs and 24 outputs shall indicate the state of the input or output.

The wired input/output card shall support optional expansion cards in other slots. Each expansion card shall support 4 outputs to the back edge of the card.

The input/output card shall support optional harnesses for connection to Input Files or C1, C4, C11, and C12 ports to support Type 170 or Type 2070 controllers.

**System Software**

The video detection system shall include management software for configuration, monitoring and data collection purposes.

**Management Software**

Management software shall be a Windows-based application.

The software shall be compatible with Windows 7 and Windows 10 operating systems or their later versions.

The software shall communicate with the video detection system via Ethernet.

The management software shall automatically determine all video sensors and communications interface panels available on the local network and populate a list of all devices.

The management software shall provide the user a means to name individual video sensors and communications interface panels.
The management software shall provide a means for the user to zoom the camera optics while viewing a live video stream.

The management software shall provide a means for the user to calibrate distances in the field of view.

The management software shall provide the user a means to create 4-sided detection zones in the field of view using either a still snapshot or live video.

The management software will overlay an outline of each detection zone over the background image.

The management software shall enable the user to:

- place detection zones anywhere in the field of view for stop line detection and/or advance detection.
- set the desired color of both the on and off states of the detection zone overlay.
- alter the size and shape of any previously created zone.
- overlap zones, either partially or fully.
- name each zone uniquely.
- assign each zone to detect vehicles, to detect bicycles, or to detect both, and to specify different outputs for each type.
- assign the same output to multiple zones such that the output will be on if any of the zones are detecting a vehicle or bicycle.
- assign a single zone to more than one output such that if a vehicle or bicycle is detected, all the assigned outputs shall be turned on.
- create at least 99 detection zones per video sensor.
- retrieve all configuration parameters from video sensors or communications interface panels.
- save all the settings for a video sensor or a communications interface panel to a laptop file.
- read or import all the settings from a previously saved configuration file for a video sensor or a communications interface panel.
- download a new version of the application software into a communications interface panel and its attached video sensors.
- monitor operation of a video sensor.

The monitoring screen shall include a live video stream from the video sensor with at least HD 1280x720 pixel resolution.

The monitoring screen shall show indications of detection in real time by changing the color of the detection zone.

configure different indications for vehicle detections vs. bicycle detections when both are configured for the same zone.

size and position the following objects anywhere on the screen and to change the color and size of text.
• An indication of when an output is on or off, along with a user-configurable name for that indicator.
• The current time in the video sensor.
• A user-configurable title or name.
• The version number of the video sensor software.
• Turn the overlay graphics on or off with a single setting.

The management software shall provide a screen to monitor operation of the intersection with a quad-view video stream from the communications interface panel. The quad-view video stream shall have a resolution of at least HD 1280x720 pixels, where each of the sensor videos comprising the quad-view shall be at least 640x360 pixels.

The user shall be able to configure the order that the sensor videos appear in the quad-view. The real-time quad-view video stream shall be capable of displaying the overlay graphics for all four sensors simultaneously.

While monitoring the video of a single video sensor or of the quad-view, the user shall be able to request a “snapshot” or single-frame image to save to a named file on a laptop.

While monitoring the video of a single video sensor or of the quad-view, the user shall be able to record a period of the video to save to a named file on a laptop.

**System Functionality**

**Detection Performance**

The video detection system shall detect the presence of vehicles in defined zones and turn on the assigned output when the vehicle is present in the zone.

**Stop Line Detection**

Stop-line detection accuracy shall be 99% minimum.

False-positive stop-line detection shall be 3% maximum.

**Advance Detection**

Advance detection zone shall be a minimum of 600’ from the video sensor. The video sensor’s field of view shall extend a minimum of 30’ beyond the advance detection zone.

Accuracy data shall be collected over 24-hour time intervals to avoid a single lighting condition, and a minimum of one hundred (100) vehicles per lane. The calculations of detection performance will not include turning movements where vehicles do not pass through the detectors, vehicle lane-change anomalies, or where they stop short or stop beyond the combined detection zones.

**Failsafe Mode**

The video detection system shall provide a failsafe mode for each video sensor. If the failsafe mode is enabled, all programmed presence detection outputs for the video sensor shall be turned on, thus placing constant calls to the controller. When failsafe mode is disabled, all outputs revert to normal on/off operations.
The video sensor shall continuously monitor the overall contrast in the video. If the overall contrast falls below a preset level (such as caused by dirty faceplate, severe glare, extreme fog, or temporary ice/snow on the faceplate), the sensor shall enable the failsafe mode. When sufficient contrast is restored in the video, the sensor will disable the failsafe mode.

The communications interface panel shall continuously monitor the connectivity status of the attached video sensors. If any video sensor goes offline due to either electrical failure or internal software failure, the communications interface panel shall enable the failsafe mode for that video sensor. If the video sensor comes back online, failsafe mode shall be disabled.

Data Collection

The video detection system shall automatically collect and store traffic flow data in non-volatile memory for later retrieval and analysis. No additional hardware or software shall be necessary. The data shall include:

- Vehicle counts.
- Vehicle average speeds.

The management software shall be able to retrieve collected data for a specified period of time or for all currently stored data and save into a standard CSV file.

Operations Log

The communications interface panel and each video sensor shall maintain a time-stamped operations log of routine and special events in non-volatile memory for later retrieval and analysis.

Time Synchronization

The video detection system and management software shall provide three methods to synchronize the time of day clocks in the communication interface panel and the video sensors, as follows:

- Manual time synchronization operation by the user, which sets the time to the current time on the laptop where the management software is running.
- A configuration setting to allow the communications interface panel to automatically obtain time from the NEMA TS2 protocol on the SDLC channel and broadcast it to the video sensors.
- A configuration setting to allow the communications interface panel to automatically obtain time from up to five Network Time Protocol (NTP) sources and broadcast it to the video sensors.

Video Streaming

In addition to the ability to view video streams in the management software, the user shall be able to view video from individual sensors or to view the quad-view from the communications interface panel using a third-party video player application on a tablet, smartphone or laptop computer.

Video Detection System Hardware

Equipment shall be an Econolite Autoscope Vision, or City Traffic Engineer approved equivalent prior to submitting bid.
<table>
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<tr>
<th>Per Leg</th>
<th>Qty</th>
<th>Hardware</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>Autoscope Vision (AVISION) white</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>Mounting Brackets (34238G24) – 24”</td>
</tr>
<tr>
<td>FT</td>
<td></td>
<td>Econolite 3-wire only cable, 18 AWG, Polyethylene jacket</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Model 1175-010 for 500 feet.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Model 1175-011 for 1000 feet.</td>
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<tr>
<td></td>
<td></td>
<td><strong>Model 33550G5</strong> for Econolite ASC2/ASC3 OR McCain ATC EX</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NEMA (for majority of City of Sacramento configurations).</td>
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<tr>
<td></td>
<td></td>
<td>Model 33550G3 for TS2 Cabinet with SDLC Hub 15 pin to 15 pin</td>
</tr>
<tr>
<td></td>
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<td>Model 33550G8 for TS1 Cabinet with 20/70</td>
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<tr>
<td></td>
<td></td>
<td>Model 33274G2 for TS2 Cabinet without an SDLC Hub</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>Ethernet Cable RJ-45 connectors. (200-1020-501)</td>
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<tr>
<td></td>
<td></td>
<td>Three (3) years System warranty from of date of acceptance</td>
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For cabinets without SDLC hub or connections, a Vision I/O 24 Module shall be installed.

For Type R cabinet, the Autoscope Vision Comm Manager (AVCM) shall be mounted on a DIN rail attached to aluminum stock for support on the right side of the cabinet. The DIN rail and aluminum stock shall be mounted to the cabinet channel rails. The Contractor is responsible for making all connections per manufacturer recommendations.

**Installation**

Camera shall be placed to minimize occlusions of left turn lanes. Occlusions can be minimized by installing the camera on the signal mast arm, in line with the lane striping between the left turn lane and the through lanes. Cameras installed on signal mast arm shall use Econolite 28” extended camera mount. At intersections where the left and through movements go together as standard operation and lefts are not intended to turn separately, the camera can be mounted on a luminaire arm with standard camera mounting bracket.

Camera shall be aimed so that the area of detection is in the top half of the video image. The farthest edge of the detector shall be at the top of the image, and at least four (4) cars shall be visible behind the stopbar, in the top half of the video image. No horizon shall be allowed in the video image.

Video detection system installed in traffic signal cabinets with network switches installed or scheduled to be installed shall use NEMA TS2 connections to controller. Contractor shall work with the Econolite Representative and the City of Sacramento Traffic Signal Maintenance Shop to ensure that all channels are programmed and detection calls are being received by the controller.

Video detection system installed in traffic signal cabinets without network switches installed shall use NEMA TS1 and logic level connections to controller. Contractor shall work with the Econolite
Representative and the City of Sacramento Traffic Signal Maintenance Shop to ensure that all channels are programmed and detection calls are being inputted into the controller.

All penetration through signal poles or mastarms shall use Hayco Liquid Tight Cordgrips or approved equal. Penetration HAYHm of the mast arm.

**Software and Programming**

An Econolite Representative shall be onsite for the installation and configuration of the Video Detection System at no additional cost to the City. The system shall be programmed to provide stopbar detection. All channels shall be configured per the City’s detector programming sheet and the Contractor and Econolite Representative shall work with City of Sacramento Traffic Signal Maintenance Shop to insure the detection calls are being inputted into the controller.

**General Aiming and Programming Notes for Video Detection**

1. No horizon shall be allowed in video.
2. Camera shall be aimed such that the farthest edge of the detector is at the top of the image. Four to Five cars shall be visible between the stopbar and the top of the video image.
3. The Camera shall be rotated so the stopbar is horizontal in the video image.
4. Detection Zone shall be approximately 65’ long or 2 cars.
5. Maximum detectable width is 6 lanes and bike lane.
6. Detector labels shall include assigned phase number and assigned channel number.
7. The phase status shall be displayed.

**Technical Support & Warranty**

1. All hardware associated with the video detection system shall be warranted for a minimum of three years.
2. The vendor shall provide all firmware and software upgrades to the City of Sacramento free of charge during the warranty period of the product.
3. Technical support shall be free of charge during the warranty period of the product.
4. Vendor shall provide 24/7 technical support.
5. Vendor shall provide training in the operation, setup, and maintenance of the video detection system at no additional cost to the city.

**11.27 Wiring**

Wiring shall be in accordance with Section 34-13 of the Standard Specifications, except for the following:

b. Pull ropes used to pull conductors in conduit shall be a minimum of three-eighths inch (3/8") in diameter.
SECTION NO. 11 - CONTRACT PROVISIONS FOR FEDERAL-AID CONSTRUCTION
CONTRACTS

FHWA -1273 Language
Final Report of Utilization of Disadvantaged Businesses (Exhibit 17-F)
Disadvantaged Business Enterprises (DBE) Certification Status (Exhibit 17-O)
SECTION 11. FEDERAL REQUIREMENTS FOR FEDERAL-AID CONSTRUCTION PROJECTS

GENERAL.—The work herein proposed will be financed in whole or in part with Federal funds, and therefore all of the statutes, rules and regulations promulgated by the Federal Government and applicable to work financed in whole or in part with Federal funds will apply to such work. The "Required Contract Provisions, Federal-Aid Construction Contracts, "Form FHWA 1273, are included in this Section 14. Whenever in said required contract provisions references are made to "SHA contracting officer", "SHA resident engineer", or "authorized representative of the SHA", such references shall be construed to mean "Engineer" as defined in Section 1-1.18 of the Standard Specifications.

PERFORMANCE OF PREVIOUS CONTRACT.—In addition to the provisions in Section II, "Non-discrimination," and Section VI, "Subletting or Assigning the Contract," of the required contract provisions, the Contractor shall comply with the following:

The bidder shall execute the CERTIFICATION WITH REGARD TO THE PERFORMANCE OF PREVIOUS CONTRACTS OR SUBCONTRACTS SUBJECT TO THE EQUAL OPPORTUNITY CLAUSE AND THE FILING OF REQUIRED REPORTS located in the proposal. No request for subletting or assigning any portion of the contract in excess of $10,000 will be considered under the provisions of Section VI of the required contract provisions unless such request is accompanied by the CERTIFICATION referred to above executed by the proposed subcontractor.

NON-COLLUSION PROVISION.—The provisions in this section are applicable to all contracts except contracts for Federal Aid Secondary projects.

Title 23, United States Code, Section 112, requires as a condition precedent to approval by the Federal Highway Administrator of the contract for this work that each bidder file a sworn statement executed by, or on behalf of, the person, firm, association, or corporation to whom such contract is to be awarded, certifying that such person, firm, association, or corporation has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken action in restraint of free competitive bidding in connection with the submitted bid. A form to make the non-collusion affidavit statement required by Section 112 as a certification under penalty of perjury rather than as a sworn statement as permitted by 28, USC, Sec. 1746, is included in the proposal.

PARTICIPATION BY MINORITY BUSINESS ENTERPRISES IN SUBCONTRACTING.—Part 26, Title 49, Code of Federal Regulations, apply to this Federal aid project. Pertinent sections of said Code are incorporated in part or in its entirety within other sections of these special provisions.

Schedule B—Information for Determining Joint Venture Eligibility

(This form need not be filled in if all joint venture firms are minority owned.)

1. Name of joint venture ______________________

2. Address of joint venture ______________________

3. Phone number of joint venture ______________________

4. Identify the firms, which comprise the joint venture. (The MBE partner must complete Schedule A.) ______________________

   a. Describe the role of the MBE firm in the joint venture. ______________________

   b. Describe very briefly the experience and business qualifications of each non-MBE joint venture: ______________________

5. Nature of the joint venture's business ______________________

6. Provide a copy of the joint venture agreement. ______________________

7. What is the claimed percentage of MBE ownership? __________

8. Ownership of joint venture: (This need not be filled in if described in the joint venture agreement, provided by question 6.).

22
a. Profit and loss sharing.
b. Capital contributions, including equipment.
c. Other applicable ownership interests.

9. Control of and participation in this contract. Identify by name, race, sex, and "firm" those individuals (and their titles) who are responsible for day-to-day management and policy decision-making, including, but not limited to, those with prime responsibility for:

a. Financial decisions

b. Management decisions, such as:

1. Estimating

2. Marketing and sales

3. Hiring and firing of management personnel

4. Purchasing of major items or supplies

c. Supervision of field operations

Note.—If, after filing this Schedule B and before the completion of the joint venture's work on the contract covered by this regulation, there is any significant change in the information submitted, the joint venture must inform the grantee, either directly or through the prime contractor if the joint venture is a subcontractor.

Affidavit

"The undersigned swear that the foregoing statements are correct and include all material information necessary to identify and explain the terms and operation of our joint venture and the intended participation by each joint venture in the undertaking. Further, the undersigned covenant and agree to provide to grantee current, complete and accurate information regarding actual joint venture work and the payment therefore and any proposed changes in any of the joint venture arrangements and to permit the audit and examination of the books, records and files of the joint venture, or those of each joint venturer relevant to the joint venture, by authorized representatives of the grantee or the Federal funding agency. Any material misrepresentation will be grounds for terminating any contract which may be awarded and for initiating action under Federal or State laws concerning false statements."

<table>
<thead>
<tr>
<th>Name of Firm</th>
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<tr>
<td>Signature</td>
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<td>Date</td>
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On this ___ day of __________, 19__, before me appeared (Name) ____________, to me personally known, who, being duly sworn, did execute the foregoing affidavit, and did state that he or she was properly authorized by (Name of firm) ____________ to execute the affidavit and did so as his or her free act and deed.

Notary Public

[Seal]

Commission expires

[Seal]

Date

State of

County of

On this ___ day of __________, 19__, before me appeared (Name) ____________, to me personally known, who, being duly sworn, did execute the foregoing affidavit, and did state that he or she was properly authorized by (Name of firm) ____________ to execute the affidavit and did so as his or her free act and deed.

Notary Public

[Seal]

Commission expires

[Seal]
REQUIRED CONTRACT PROVISIONS
FEDERAL-AID CONSTRUCTION CONTRACTS

I. General
II. Nondiscrimination
III. Nonsegregated Facilities
IV. Davis-Bacon and Related Act Provisions
V. Contract Work Hours and Safety Standards Act Provisions
VI. Subleasing or Assigning the Contract
VII. Safety: Accident Prevention
VIII. False Statements Concerning Highway Projects
IX. Implementation of Clean Air Act and Federal Water Pollution Control Act
X. Compliance with Governmentwide Suspension and Debarment Requirements
XI. Certification Regarding Use of Contract Funds for Lobbying

ATTACHMENTS
A. Employment and Materials Preference for Appalachian Development Highway System or Appalachian Local Access Road Contracts (included in Appalachian contracts only)

I. GENERAL

1. Form FHWA-1273 must be physically incorporated in each construction contract funded under Title 23 (excluding emergency contracts solely intended for debris removal). The contractor (or sub contractor) must insert this form in each subcontract and further require its inclusion in all lower tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services).

The applicable requirements of Form FHWA-1273 are incorporated by reference for work done under any purchase order, rental agreement or agreement for other services. The prime contractor shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Form FHWA-1273 must be included in all Federal-aid design-build contracts, in all subcontracts and in lower tier subcontracts (excluding subcontracts for design services, purchase orders, rental agreements and other agreements for supplies or services). The design-builder shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Contracting agencies may reference Form FHWA-1273 in bid proposal or request for proposal documents, however, the Form FHWA-1273 must be physically incorporated (not referenced) in all contracts, subcontracts and lower-tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services related to a construction contract).

2. Subject to the applicability criteria noted in the following sections, these contract provisions shall apply to all work performed on the contract by the contractor’s immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract.

3. A breach of any of the stipulations contained in these Required Contract Provisions may be sufficient grounds for withholding of progress payments, withholding of final payment, termination of the contract, suspension / debarment or any other action determined to be appropriate by the contracting agency and FHWA.

4. Selection of Labor: During the performance of this contract, the contractor shall not use convict labor for any purpose within the limits of a construction project on a Federal-aid highway unless it is labor performed by convicts who are on parole, supervised release, or probation. The term Federal-aid highway does not include roadways functionally classified as local roads or rural minor collectors.

II. NONDISCRIMINATION

The provisions of this section related to 23 CFR Part 230 are applicable to all Federal-aid construction contracts and to all related construction subcontracts of $10,000 or more. The provisions of 23 CFR Part 230 are not applicable to material supply, engineering, or architectural service contracts.

In addition, the contractor and all subcontractors must comply with the following policies: Executive Order 11246, 41 CFR 60, 29 CFR 1625-1627, Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27, and 23 CFR Parts 200, 230, and 633.

The contractor and all subcontractors must comply with: the requirements of the Equal Opportunity Clause in 41 CFR 60-1.4(b) and, for all construction contracts exceeding $10,000, the Standard Federal Equal Employment Opportunity Construction Contract Specifications in 41 CFR 60-4.3.

Note: The U.S. Department of Labor has exclusive authority to determine compliance with Executive Order 11246 and the policies of the Secretary of Labor including 41 CFR 60, and 20 CFR 1625-1627. The contracting agency and the FHWA have the authority and the responsibility to ensure compliance with Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), and Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27, and 23 CFR Parts 200, 230, and 633.

The following provision is adopted from 23 CFR 230, Appendix A, with appropriate revisions to conform to the U.S. Department of Labor (US DOL) and FHWA requirements.

1. Equal Employment Opportunity: Equal employment opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (28 CFR 35, 29 CFR 1630, 29 CFR 1625-1627, 41 CFR 60 and 49 CFR 27) and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140 shall constitute the EEO and specific affirmative action standards for the contractor’s project activities under
this contract. The provisions of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) set forth under 28 CFR 35 and 29 CFR 1630 are incorporated by reference in this contract. In the execution of this contract, the contractor agrees to comply with the following minimum specific requirement activities of EEO:

a. The contractor will work with the contracting agency and the Federal Government to ensure that it has made every good faith effort to provide equal opportunity with respect to all of its terms and conditions of employment and in their review of activities under the contract.

b. The contractor will accept as its operating policy the following statement:

"It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, color, national origin, age or disability. Such action shall include: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship, pre-apprenticeship, and/or on-the-job training."

2. EEO Officer: The contractor will designate and make known to the contracting officers an EEO Officer who will have the responsibility for and must be capable of effectively administering and promoting an active EEO program and who must be assigned adequate authority and responsibility to do so.

3. Dissemination of Policy: All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action, or who are substantially involved in such action, will be made fully cognizant of, and will implement, the contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:

a. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer.

b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty days following their reporting for duty with the contractor.

c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the contractor's procedures for locating and hiring minorities and women.

d. Notices and posters setting forth the contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.

e. The contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.

4. Recruitment: When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed in publications having a large circulation among minorities and women in the area from which the project work force would normally be derived.

a. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minorities and women. To meet this requirement, the contractor will identify sources of potential minority group employees, and establish with such identified sources procedures whereby minority and women applicants may be referred to the contractor for employment consideration.

b. In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, the contractor is expected to observe the provisions of that agreement to the extent that the system meets the contractor's compliance with EEO contract provisions. Where implementation of such an agreement has the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Federal nondiscrimination provisions.

c. The contractor will encourage its present employees to refer minorities and women as applicants for employment. Information and procedures with regard to referring such applicants will be discussed with employees.

5. Personnel Actions: Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, national origin, age or disability. The following procedures shall be followed:

a. The contractor will conduct periodic inspections of project sites to insure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

b. The contractor will periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.

c. The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.

d. The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with its obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor will inform each complainant of all of their avenues of appeal.

6. Training and Promotion:

a. The contractor will assist in locating, qualifying, and increasing the skills of minorities and women who are
applicants for employment or current employees. Such efforts should be aimed at developing full journey level status employees in the type of trade or job classification involved.

b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs, i.e., apprenticeship, and on-the-job training programs for the geographical area of contract performance. In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision. The contracting agency may reserve training positions for persons who receive welfare assistance in accordance with 23 U.S.C. 140(a).

c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.

d. The contractor will periodically review the training and promotion potential of employees who are minorities and women and will encourage eligible employees to apply for such training and promotion.

7. Unions: If the contractor relies in whole or in part upon unions as a source of employees, the contractor will use good faith efforts to obtain the cooperation of such unions to increase opportunities for minorities and women. Actions by the contractor, either directly or through a contractor's association acting as agent, will include the procedures set forth below:

a. The contractor will use good faith efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minorities and women for membership in the unions and increasing the skills of minorities and women so that they may qualify for higher paying employment.

b. The contractor will use good faith efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, national origin, age or disability.

c. The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to the contracting agency and shall set forth what efforts have been made to obtain such information.

d. In the event the union is unable to provide the contractor with a reasonable flow of referrals within the time limit set forth in the collective bargaining agreement, the contractor will through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, national origin, age or disability; making full efforts to obtain qualified and/or qualifiable minorities and women. The failure of a union to provide sufficient referrals (even though it is obligated to provide exclusive referrals under the terms of a collective bargaining agreement) does not relieve the contractor from the requirements of this paragraph. In the event the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such contractor shall immediately notify the contracting agency.

8. Reasonable Accommodation for Applicants/ Employees with Disabilities: The contractor must be familiar with the requirements for and comply with the Americans with Disabilities Act and all rules and regulations established there under. Employers must provide reasonable accommodation in all employment activities unless to do so would cause an undue hardship.

9. Selection of Subcontractors, Procurement of Materials and Leasing of Equipment: The contractor shall not discriminate on the grounds of race, color, religion, sex, national origin, age or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment. The contractor shall take all necessary and reasonable steps to ensure nondiscrimination in the administration of this contract.

a. The contractor shall notify all potential subcontractors and suppliers and lessors of their EEO obligations under this contract.

b. The contractor will use good faith efforts to ensure subcontractor compliance with their EEO obligations.

10. Assurance Required by 49 CFR 26.13(b):

a. The requirements of 49 CFR Part 26 and the State DOT's U.S. DOT-approved DBE program are incorporated by reference.

b. The contractor or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the contracting agency deems appropriate.

11. Records and Reports: The contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following the date of the final payment to the contractor for all contract work and shall be available at reasonable times and places for inspection by authorized representatives of the contracting agency and the FHWA.

c. The records kept by the contractor shall document the following:

(1) The number and work hours of minority and non-minority group members and women employed in each work classification on the project;

(2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women; and

(3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minorities and women;

b. The contractors and subcontractors will submit an annual report to the contracting agency each July for the duration of the project, indicating the number of minority, women, and non-minority group employees currently engaged in each work classification required by the contract work. This information is to be reported on Form FHWA-1391. The staffing data should represent the project work force on board in all or any part of the last payroll period preceding the end of July. If on-the-job training is being required by special provision, the contractor
will be required to collect and report training data. The employment data should reflect the work force on board during all or any part of the last payroll period preceding the end of July.

III. NONSEGREGATED FACILITIES

This provision is applicable to all Federal-aid construction contracts and to all related construction subcontracts of $10,000 or more.

The contractor must ensure that facilities provided for employees are provided in such a manner that segregation on the basis of race, color, religion, sex, or national origin cannot result. The contractor may neither require such segregated use by written or oral policies nor tolerate such use by employee custom. The contractor’s obligation extends further to ensure that its employees are not assigned to perform their services at any location, under the contractor’s control, where the facilities are segregated. The term “facilities” includes waiting rooms, work areas, restaurants and other eating areas, time clocks, restrooms, washrooms, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing provided for employees. The contractor shall provide separate or single-user restrooms and necessary dressing or sleeping areas to assure privacy between sexes.

IV. DAVIS-BACON AND RELATED ACT PROVISIONS

This section is applicable to all Federal-aid construction projects exceeding $2,000 and to all related subcontracts and lower-tier subcontracts (regardless of subcontract size). The requirements apply to all projects located within the right-of-way of a roadway that is functionally classified as Federal-aid highway. This excludes roadways functionally classified as local roads or rural minor collectors, which are exempt.

Contracting agencies may elect to apply these requirements to other projects.

The following provisions are from the U.S. Department of Labor regulations in 29 CFR 5.5 “Contract provisions and related matters” with minor revisions to conform to the FHWA-1273 format and FHWA program requirements.

1. Minimum wages

a. All laborers and mechanics employed or working upon the site of the work, will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any amount (except such payroll reductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)); the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph 1.d. of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided, That the employer’s payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under paragraph 1.b. of this section) and the Davis-Bacon poster (WH–1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

b.(1) The contracting officer shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

(i) The work to be performed by the classification requested is not performed by a classification in the wage determination; and

(ii) The classification is utilized in the area by the construction industry; and

(iii) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(2) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(3) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Wage and Hour Administrator for determination. The Wage and Hour Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or
will notify the contracting officer within the 30-day period that additional time is necessary.

(4) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs 1.b.(2) or 1.b.(3) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

c. Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

d. If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably incurred in providing such fringe benefits under a plan or program, Provided, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to act aside in a separate account assets for the meeting of obligations under the plan or program.

2. Withholding

The contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor under this contract, or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the contracting agency may, after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

3. Payrolls and basic records

a. Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work and preserved thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rate of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

b.(1) The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the contracting agency. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on weekly payrolls. Instead the payrolls shall only need to include an individually identifying number for each employee (e.g., the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division Web site at http://www.dol.gov/whd/forms/wh347instr.htm or its successor site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors.

Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the contracting agency for transmission to the State DOT, the FHWA or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the contracting agency.

(2) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(i) That the payroll for the payroll period contains the information required to be provided under §5.5(a)(3)(i) of Regulations, 29 CFR part 5, the appropriate information is being maintained under §5.5(a)(3)(i) of Regulations, 29 CFR part 5, and that such information is correct and complete;

(ii) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in Regulations, 29 CFR part 3;

(iii) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.
(3) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the “Statement of Compliance” required by paragraph 3.b.(2) of this section.

(4) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under section 1001 of title 18 and section 231 of title 31 of the United States Code.

c. The contractor or subcontractor shall make the records required under paragraph 3.a. of this section available for inspection, copying, or transcription by authorized representatives of the contracting agency, the State DOT, the FHWA, or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the FHWA may, after written notice to the contractor, the contracting agency or the State DOT, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

4. Apprentices and trainees

a. Apprentices (programs of the USDOL).

Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice.

The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeymen’s hourly rate) specified in the contractor’s or subcontractor’s registered program shall be observed.

Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice’s level of progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program if the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination.

In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

b. Trainees (programs of the USDOL)

Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration.

The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration.

Every trainee must be paid at not less than the rate specified in the approved program for the trainee’s level of progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeymen wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed.

In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

c. Equal employment opportunity. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR part 30.
d. Apprentices and Trainees (programs of the U.S. DOT).

Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with Federal-aid highway construction programs are not subject to the requirements of paragraph 4 of this Section IV. The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeymen shall not be greater than permitted by the terms of the particular program.

5. Compliance with Copeland Act requirements. The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract.

6. Subcontracts. The contractor or subcontractor shall insert Form FHWA-1273 in any subcontracts and also require the subcontractors to include Form FHWA-12/3 in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.

7. Contract termination: debarment. A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

8. Compliance with Davis-Bacon and Related Act requirements. All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract.

9. Disputes concerning labor standards. Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

10. Certification of eligibility.

a. By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 20 CFR 5.12(a)(1).

b. No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).


V. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT

The following clauses apply to any Federal-aid construction contract in an amount in excess of $100,000 and subject to the overtime provisions of the Contract Work Hours and Safety Standards Act. These clauses shall be inserted in addition to the clauses required by 29 CFR 5.5(a) or 29 CFR 4.6. As used in this paragraph, the terms laborers and mechanics include watchmen and guards.

1. Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in any workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

2. Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph (1) of this section, the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (1) of this section, in the sum of $10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (1) of this section.

3. Withholding for unpaid wages and liquidated damages. The FHWA or the contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clauses set forth in paragraph (2) of this section.

4. Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (1) through (4) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (1) through (4) of this section.
VI. SUBLETTING OR ASSIGNING THE CONTRACT

This provision is applicable to all Federal-aid construction contracts on the National Highway System.

1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the contracting agency. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractor's own organization (23 CFR 635.116).

   a. The term "perform work with its own organization" refers to workers employed or leased by the prime contractor, and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor or lower tier subcontractor, agents of the prime contractor, or any other assignees. The term may include payments for the costs of hiring leased employees from an employee leasing firm meeting all relevant Federal and State regulatory requirements. Leased employees may only be included in this term if the prime contractor meets all of the following conditions:

      (1) the prime contractor maintains control over the supervision of the day-to-day activities of the leased employees;
      (2) the prime contractor remains responsible for the quality of the work of the leased employees;
      (3) the prime contractor retains all power to accept or exclude individual employees from work on the project; and
      (4) the prime contractor remains ultimately responsible for the payment of predetermined minimum wages, the submission of payrolls, statements of compliance and all other Federal regulatory requirements.

   b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid or propose on the contract as a whole and in general are to be limited to minor components of the overall contract.

2. The contract amount upon which the requirements set forth in paragraph (1) of Section VI is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. The contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the contracting officer determines is necessary to assure the performance of the contract.

4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the contracting officer, or authorized representative, and such consent shall be in writing and that it contains all pertinent provisions and requirements of the prime contract.

5. The 30% self-performance requirement of paragraph (1) is not applicable to design-build contracts; however, contracting agencies may establish their own self-performance requirements.

VII. SAFETY: ACCIDENT PREVENTION

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract.

2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and health standards (29 CFR 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704).

3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704).

VIII. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federal-aid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Wilful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and similar acts, Form FHWA-1022 shall be posted on each Federal-aid highway project (23 CFR 635) in one or more places where it is readily available to all persons concerned with the project.

18 U.S.C. 1020 reads as follows:
"Whoever, being an officer, agent, or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 1, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined under this title or imprisoned not more than 5 years or both."

IX. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

By submission of this bid/proposal or the execution of this contract, or subcontract, as appropriate, the bidder, proposer, Federal-aid construction contractor, or subcontractor, as appropriate, will be deemed to have stipulated as follows:

1. That any person who is or will be utilized in the performance of this contract is not prohibited from receiving an award due to a violation of Section 508 of the Clean Water Act or Section 306 of the Clean Air Act.

2. That the contractor agrees to include or cause to be included the requirements of paragraph (1) of this Section X in every subcontract, and further agrees to take such action as the contracting agency may direct as a means of enforcing such requirements.

X. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, consultant contracts or any other covered transaction requiring FHWA approval or that is estimated to cost $25,000 or more — as defined in 2 CFR Parts 180 and 1200.

1. Instructions for Certification — First Tier Participants:

   a. By signing and submitting this proposal, the prospective first tier participant is providing the certification set out below.

   b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this covered transaction. The prospective first tier participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation may be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective first tier participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction.

   c. The certification in this clause is a material representation of fact upon which reliance was placed when the contracting agency determined to enter into this transaction. If it is later determined that the prospective participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the contracting agency may terminate this transaction for cause of default.

   d. The prospective first tier participant shall provide immediate written notice to the contracting agency to whom this proposal is submitted if any time the prospective first tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

   e. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contractor). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

   f. The prospective first tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction.

   g. The prospective first tier participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transactions," provided by the department or contracting agency, entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the $25,000 threshold.

   h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not debarred, suspended, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (https://www.epis.gov/), which is compiled by the General Services Administration.
i. Nothing contained in the foregoing shall be construed to require the establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of the prospective participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

j. Except for transactions authorized under paragraph (f) of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.

* * * * *

2. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion — First Tier Participants:

a. The prospective first tier participant certifies to the best of its knowledge and belief, that it and its principals:

(1) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency;

(2) Have not within a three-year period preceding this proposal been convicted or has had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;

(3) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (a)(2) of this certification; and

(4) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

b. Where the prospective participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

2. Instructions for Certification — Lower Tier Participants:

(Applicable to all subcontracts, purchase orders and other lower tier transactions requiring prior FHWA approval or estimated to cost $25,000 or more - 2 CFR Parts 180 and 1200)

a. By signing and submitting this proposal, the prospective lower tier is providing the certification set out below.

b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances.

d. The terms "covered transaction," "debarred," "suspended," "ineligibl," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations. "First Tier Covered Transactions" refers to any covered transaction between a contractor and a participant (such as the prime or general contractor), "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a contractor or subcontractor. "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

e. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.

f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause in any lower tier covered transaction that is not debarred, suspended, declared ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (https://www.epis.gov), which is compiled by the General Services Administration.

g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, declared ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (https://www.epis.gov), which is compiled by the General Services Administration.

h. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, declared ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the
department or agency with which this transaction originated
may pursue available remedies, including suspension and/or
debarment.

*****

Certification Regarding Debarment, Suspension,
Ineligibility and Voluntary Exclusion--Lower Tier
Participants:

1. The prospective lower tier participant certifies, by
submission of this proposal, that neither it nor its principals is
presently debarred, suspended, proposed for debarment,
declared ineligible, or voluntarily excluded from participating in
covered transactions by any Federal department or agency.

2. Where the prospective lower tier participant is unable to
certify to any of the statements in this certification, such
prospective participant shall attach an explanation to this
proposal.

*****

XI. CERTIFICATION REGARDING USE OF CONTRACT
FUNDS FOR LOBBYING

This provision is applicable to all Federal-aid construction
contracts and to all related subcontracts which exceed
$100,000 (49 CFR 20).

1. The prospective participant certifies, by signing and
submitting this bid or proposal, to the best of his or her
knowledge and belief, that:

a. No Federal appropriated funds have been paid or will be
paid, by or on behalf of the undersigned, to any person for
influencing or attempting to influence an officer or employee of
any Federal agency, a Member of Congress, an officer or
employee of Congress, or an employee of a Member of
Congress in connection with the awarding of any Federal
contract, the making of any Federal grant, the making of any
Federal loan, the entering into of any cooperative agreement,
and the extension, continuation, renewal, amendment, or
modification of any Federal contract, grant, loan, or
cooperative agreement.

b. If any funds other than Federal appropriated funds have
been paid or will be paid to any person for influencing or
attempting to influence an officer or employee of any Federal
agency, a Member of Congress, an officer or employee of
Congress, or an employee of a Member of Congress in
connection with this Federal contract, grant, loan, or
cooperative agreement, the undersigned shall complete and
submit Standard Form-LLL, "Disclosure Form to Report
Influence", in accordance with its instructions.

2. This certification is a material representation of fact upon
which reliance was placed when this transaction was made or
entered into. Submission of this certification is a prerequisite
for making or entering into this transaction imposed by 31
U.S.C. 1352. Any person who fails to file the required
certification shall be subject to a civil penalty of not less than
$10,000 and not more than $100,000 for each such failure.

3. The prospective participant also agrees by submitting its
bid or proposal that the participant shall require that the
language of this certification be included in all lower tier
subcontracts, which exceed $100,000 and that all such
recipients shall certify and disclose accordingly.
ATTACHMENT A - EMPLOYMENT AND MATERIALS PREFERENCE FOR APPALACHIAN DEVELOPMENT HIGHWAY SYSTEM OR APPALACHIAN LOCAL ACCESS ROAD CONTRACTS

This provision is applicable to all Federal-aid projects funded under the Appalachian Regional Development Act of 1965.

1. During the performance of this contract, the contractor undertaking to do work which is, or reasonably may be, done as on-site work, shall give preference to qualified persons who regularly reside in the labor area as designated by the DOL wherein the contract work is situated, or the subregion, or the Appalachian counties of the State wherein the contract work is situated, except:

   a. To the extent that qualified persons regularly residing in the area are not available.

   b. For the reasonable needs of the contractor to employ supervisory or specially experienced personnel necessary to assure an efficient execution of the contract work.

   c. For the obligation of the contractor to offer employment to present or former employees as the result of a lawful collective bargaining contract, provided that the number of nonresident persons employed under this subparagraph (1c) shall not exceed 20 percent of the total number of employees employed by the contractor on the contract work, except as provided in subparagraph (4) below.

2. The contractor shall place a job order with the State Employment Service including (a) the classification of the laborers, mechanics and other employees required to perform the contract work, (b) the number of employees required in each classification, (c) the date on which the participant estimates such employees will be required, and (d) any other pertinent information required by the State Employment Service to complete the job order form. The job order may be placed with the State Employment Service in writing or by telephone. If during the course of the contract work, the information submitted by the contractor in the original job order is substantially modified, the participant shall promptly notify the State Employment Service.

3. The contractor shall give full consideration to all qualified job applicants referred to him by the State Employment Service. The contractor is not required to grant employment to any job applicants who, in his opinion, are not qualified to perform the classification of work required.

4. If, within one week following the placing of a job order by the contractor with the State Employment Service, the State Employment Service is unable to refer any qualified job applicants to the contractor, or less than the number requested, the State Employment Service will forward a certificate to the contractor indicating the unavailability of applicants. Such certificate shall be made a part of the contractor’s permanent project records. Upon receipt of this certificate, the contractor may employ persons who do not normally reside in the labor area to fill positions covered by the certificate, notwithstanding the provisions of subparagraph (1c) above.

5. The provisions of 23 CFR 633.207(e) allow the contracting agency to provide a contractual preference for the use of mineral resource materials native to the Appalachian region.

6. The contractor shall include the provisions of Sections 1 through 4 of this Attachment A in every subcontract for work which is, or reasonably may be, done as on-site work.
### EXHIBIT 17-F FINAL REPORT-UTILIZATION OF DISADVANTAGED BUSINESS ENTERPRISES (DBE) AND FIRST-TIER SUECONTRACTORS

<table>
<thead>
<tr>
<th>1. Local Agency Contract Number</th>
<th>2. Federal-Aid Project Number</th>
<th>3. Local Agency</th>
<th>4. Contract Completion Date</th>
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<thead>
<tr>
<th>15. ORIGINAL DBE COMMITMENT AMOUNT</th>
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<th>16. TOTAL</th>
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List all first-tier subcontractors/subconsultants and DBEs regardless of tier whether or not the firms were originally listed for goal credit. If actual DBE utilization (or item of work) was different than that approved at the time of award, provide comments on an additional page. List actual amount paid to each entity. If no subcontractors/subconsultants were used on the contract, indicate on the form.

**CERTIFY THAT THE ABOVE INFORMATION IS COMPLETE AND CORRECT**

<table>
<thead>
<tr>
<th>17. Contractor/Consultant Representative's Signature</th>
<th>18. Contractor/Consultant Representative's Name</th>
<th>19. Phone</th>
<th>20. Date</th>
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**I CERTIFY THAT THE CONTRACTING RECORDS AND ON-SITE PERFORMANCE OF THE DBE(S) HAS BEEN MONITORED**

<table>
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<tr>
<th>21. Local Agency Representative's Signature</th>
<th>22. Local Agency Representative's Name</th>
<th>23. Phone</th>
<th>24. Date</th>
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INSTRUCTIONS – FINAL REPORT-UTILIZATION OF DISADVANTAGED BUSINESS ENTERPRISES (DBE) AND FIRST-TIER SUBCONTRACTORS

1. Local Agency Contract Number - Enter the Local Agency contract number or identifier.
2. Federal-Aid Project Number - Enter the Federal-Aid Project Number.
3. Local Agency - Enter the name of the local or regional agency that is funding the contract.
4. Contract Completion Date - Enter the date the contract was completed.
5. Contractor/Consultant - Enter the contractor/consultant’s firm name.
6. Business Address - Enter the contractor/consultant’s business address.
7. Final Contract Amount - Enter the total final amount for the contract.
8. Contract Item Number - Enter contract item for work, services, or materials supplied provided. Not applicable for consultant contracts.
9. Description of Work, Services, or Materials Supplied - Enter description of work, services, or materials provided. Indicate all work to be performed by DBEs including work performed by the prime contractor/consultant’s own forces, if the prime is a DBE. If 100% of the item is not to be performed or furnished by the DBE, describe the exact portion to be performed or furnished by the DBE. See LAPM Chapter 9 to determine how to count the participation of DBE firms.
10. Company Name and Business Address - Enter the name, address, and phone number of all subcontracted contractors/consultants. Also, enter the prime contractor/consultant’s name and phone number, if the prime is a DBE.
11. DBE Certification Number - Enter the DBE’s Certification Identification Number. Leave blank if subcontractor is not a DBE.
12. Contract Payments - Enter the subcontracted dollar amount of the work performed or service provided. Include the prime contractor/consultant if the prime is a DBE. The Non-DBE column is used to enter the dollar value of work performed by firms that are not certified DBE or for work after a DBE becomes decertified.
13. Date Work Completed - Enter the date the subcontractor/subconsultant’s item work was completed.
14. Date of Final Payment - Enter the date when the prime contractor/consultant made the final payment to the subcontractor/subconsultant for the portion of work listed as being completed.
15. Original DBE Commitment Amount - Enter the “Total Claimed DBE Participation Dollars” from Exhibits 15-G or 10-O2 for the contract.
16. Total - Enter the sum of the “Contract Payments” Non-DBE and DBE columns.
17. Contractor/Consultant Representative’s Signature - The person completing the form on behalf of the contractor/consultant’s firm must sign their name.
18. Contractor/Consultant Representative’s Name - Enter the name of the person preparing and signing the form.
19. Phone - Enter the area code and telephone number of the person signing the form.
20. Date - Enter the date the form is signed by the contractor’s preparer.
21. Local Agency Representative’s Signature - A Local Agency Representative must sign their name to certify that the contracting records and on-site performance of the DBE(s) has been monitored.
22. Local Agency Representative’s Name - Enter the name of the Local Agency Representative signing the form.
23. Phone - Enter the area code and telephone number of the person signing the form.
24. Date - Enter the date the form is signed by the Local Agency Representative.
### EXHIBIT 17-O DISADVANTAGED BUSINESS ENTERPRISES (DBE) CERTIFICATION STATUS CHANGE

<table>
<thead>
<tr>
<th>1. Local Agency Contract Number</th>
<th>2. Federal-Aid Project Number</th>
<th>3. Local Agency</th>
<th>4. Contract Completion Date</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>Certification Number</td>
<td>While Certified</td>
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</tbody>
</table>

If there were no changes in the DBE certification of subcontractors/subconsultants, indicate on the form.

**I CERTIFY THAT THE ABOVE INFORMATION IS COMPLETE AND CORRECT**

14. Contractor/Consultant Representative’s Signature  
15. Contractor/Consultant Representative’s Name  
16. Phone  
17. Date

**I CERTIFY THAT THE CONTRACTING RECORDS AND ON-SITE PERFORMANCE OF THE DBE(S) HAS BEEN MONITORED**

18. Local Agency Representative’s Signature  
19. Local Agency Representative’s Name  
20. Phone  
21. Date

**DISTRIBUTION:** Original - Local Agency, Copy - Caltrans District Local Assistance Engineer, Include with Final Report of Expenditures

**ADA NOTICE:** For individuals with sensory disabilities, this document is available in alternate formats. For information, call (916) 445-1233, Local Assistance Procedures Manual TTY 711, or write to Records and Forms Management, 1120 N Street, MS-89, Sacramento, CA 95814.
INSTRUCTIONS –DISADVANTAGED BUSINESS ENTERPRISES (DBE) CERTIFICATION STATUS CHANGE

1. Local Agency Contract Number - Enter the Local Agency contract number or identifier.
2. Federal-Aid Project Number - Enter the Federal-Aid Project Number.
3. Local Agency - Enter the name of the local or regional agency that is funding the contract.
4. Contract Completion Date - Enter the date the contract was completed.
5. Contractor/Consultant - Enter the contractor/consultant’s firm name.
6. Business Address - Enter the contractor/consultant’s business address.
7. Final Contract Amount - Enter the total final amount for the contract.
8. Contract Item Number - Enter contract item for work, services, or materials supplied provided. Not applicable for consultant contracts.
9. DBE Contact Information - Enter the name, address, and phone number of all DBE subcontracted contractors/consultants.
10. DBE Certification Number - Enter the DBE’s Certification Identification Number.
11. Amount Paid While Certified - Enter the actual dollar value of the work performed by those subcontractors/subconsultants during the time period they are certified as a DBE.
12. Certification/Decertification Date (Letter Attached) - Enter either the date of the Decertification Letter sent out by the Office of Business and Economic Opportunity (OBEO) or the date of the Certification Certificate mailed out by OBEO.
13. Comments - If needed, provide any additional information in this section regarding any of the above certification status changes.
14. Contractor/Consultant Representative’s Signature - The person completing the form on behalf of the contractor/consultant’s firm must sign their name.
15. Contractor/Consultant Representative’s Name - Enter the name of the person preparing and signing the form.
16. Phone - Enter the area code and telephone number of the person signing the form.
17. Date - Enter the date the form is signed by the contractor’s preparer.
18. Local Agency Representative’s Signature - A Local Agency Representative must sign their name to certify that the contracting records and on-site performance of the DBE(s) has been monitored.
19. Local Agency Representative’s Name - Enter the name of the Local Agency Representative signing the form.
20. Phone - Enter the area code and telephone number of the person signing the form.
21. Date - Enter the date the form is signed by the Local Agency Representative.
SECTION NO. 12 - BID PROPOSAL FORMS

Bid Proposal Form
Bid Proposal Guarantee
Drug Free Workplace Policy and Affidavit
List of Subcontractors
Non-Discrimination in Employee Benefits Ordinance Certification
Minimum Qualifications Questionnaire
Equal Employment Opportunity Certification
Public Contract Code Section 10285.1 Statement
Public Contract Code Section 10162 Questionnaire
Public Contract Code Section 10232 Statement
Non Collusion Affidavit
Debarment and Suspension Certification
Nonlobbying Certification for Federal-Aid Contracts
Disclosure of Lobbying Activities Form and Instructions
Local Agency Bidder - DBE Commitment (Exhibit 15-G(1))
Local Agency Bidder - DBE Information (Exhibit 15-G(2))
DBE Information – Good Faith Efforts (Exhibit 15-H)
Duns Form
Title VI Language
**BID PROPOSAL CHECKLIST**

The following items are **required** to be submitted as part of the bid proposal. Failure to do so will result in the bid being declared not responsive.

<table>
<thead>
<tr>
<th>Included</th>
<th>Please (✓)</th>
<th>Pages</th>
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<tbody>
<tr>
<td>□ Bid Proposal Form</td>
<td></td>
<td>1 – 6</td>
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<tr>
<td>□ Bid Proposal Guarantee</td>
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<td>1 only</td>
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<tr>
<td>□ Drug Free Work Place Certification</td>
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<tr>
<td>□ List of Subcontractors</td>
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<tr>
<td>□ Non-Discrimination in Employee Benefits Ordinance Certification</td>
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<td>1 – 9</td>
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<tr>
<td>□ Minimum Qualifications Questionnaire</td>
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<td>□ Equal Employment Opportunity Certification</td>
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<td>□ Public Contract Code Section 10285.1 Statement and Public Contract Code Section 10162 Questionnaire</td>
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<td>□ Public Contract Code Section 10232 Statement</td>
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<td>□ Non Collusion Affidavit</td>
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<td>□ Debarment and Suspension Certification</td>
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<td>□ Non-lobbying Certification for Federal-Aid Contracts</td>
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<td>□ Disclosure of Lobbying Activities Form and Instructions</td>
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<td>□ Local Agency Bidder – DBE Commitment (Exhibit 15-G)*</td>
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<td>□ DBE Information – Good Faith Efforts (Exhibit 15-H)*</td>
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<td>□ DUNS FORM</td>
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<tr>
<td>□ Cost Breakdown for Lump Sum Electrical Items*</td>
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* This information is due by no later than 4:00PM, four (4) working days from bid opening. Please deliver to Jose R. Ledesma, New City Hall, 915 I Street, Room 2000, Sacramento CA 95814. Contact info: iledesma@cityofsacramento.org, 916-808-8195.
TO THE HONORABLE CITY COUNCIL  
SACRAMENTO, CALIFORNIA:

In compliance with the Contract Documents, the undersigned hereby proposes to furnish all required labor, materials, supervision, transportation, equipment, services, taxes and incidentals required for:

**MEADOWVIEW ROAD COMPLETE STREET PROJECT**  
(T15145500)

in the City and County of Sacramento, California.

The Work is to be done in strict conformity with the Contract Documents now on file in the Office of the City Clerk, for the following sum:

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Item Description</th>
<th>Qty</th>
<th>Unit</th>
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CITY OF SACRAMENTO
Department of Public Works
Engineering Services Division

Bid Proposal
Addendum No. 4
Page 4 of 6

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CONTRACTOR NAME: All-American Construction, Inc.

TOTAL $8,052,711.00

It is understood that this Bid Proposal is based upon completion of the Work within a period of ONE HUNDRED AND THIRTY (130) WORKING DAYS, commencing on the date set forth in the written Notice to Proceed issued by the City to the Contractor. The Contractor is hereby notified and reminded that per City Contract requirements, the City will issue a Notice to Proceed within 15 calendar days of execution of contract by City. Contact work days will start immediately on the date of the Notice to Proceed. Attached is a sample of a Notice to Proceed.

Work under these Special Provisions shall be performed by qualified personnel experienced in work described herein. The Contractor and/or its subcontractor shall possess current and active licenses issued by the California Contractors State License Board for Class A – General Engineering Contractor and Class C10 – Electrical at the time of the bid submittal and throughout the construction period. Any cited violations or pending violation investigations by the California Contractors State Licensing Board within three years prior to the date of the bid submittal shall be fully disclosed in the bid.

Class A License Number: 9487102
Name and Address of Licensee: All-American Construction, Inc.
Issue Date: 6/1/2010
Expiration Date: 6/1/2020
License Status: Active

Class C10 License Number:
Name and Address of Licensee:
Issue Date:
Expiration Date:
License Status:

Provide a Schedule of Values (cost break-down) for each lump sum electrical item(s). The Schedule of Values (cost break-down) shall be provided by 4:00 p.m. on the fourth working day after the bid opening. If the lump sum item cost break-down is not submitted within the specified time, the bid will be deemed as non-responsive. The cost
break-down shall be submitted to Jose Ledesma, the Contracts Manager, at 915 I Street, Suite 2000, Sacramento, CA 95814 or by email at Jledesma@cityofsacramento.org.

The City will provide the Contractor the expected delivery period of the signal poles and streetlight standards, and anchor bolts at the pre-construction meeting. The contractor shall provide the City an address to which the standards are to be delivered at this meeting. The standards shall be delivered to the Contractor’s facility. In the event the City furnished materials is stored at the City Corporation Yard, the contractor shall pickup City furnished materials and deliver the City furnished materials to the Contractor facility. Contractor is liable for damage and/or loss of City furnished equipment. Upon delivery, the Contractor shall arrange for the City Inspector to inspect and tag the standards.

In determining the amount bid by each bidder, the City may disregard mathematical errors in addition, subtraction, multiplication, and division that appear obvious on the face of the Proposal. When such a mathematical error appears on the face of the Proposal, the City shall have the right to correct such error and to compute the total amount bid by said bidder on the basis of the corrected figure or figures.

The City Council may reject any and all bids and waive any informalities or minor irregularities in the bids.

When an item price is required to be set forth in the Proposal, and the total for the item set forth separately does not agree with a figure which is derived by multiplying the item price times the Engineer’s estimate of the quantity of work to be performed for said item, the item price shall prevail over the sum set forth as the total for the item unless, in the sole discretion of the City, such a procedure would be inconsistent with the policy of the bidding procedure. The total paid for each such item of work shall be based upon the item price and not the total price. Should the Proposal contain only total price for the item and the item price is omitted, the City shall determine the item price by dividing the total price for the item by the Engineer’s estimate of the estimated quantities of work to be performed as items of work.

If the Proposal contains neither the item price nor the total price for the item, then it shall be deemed incomplete and the Proposal shall be disregarded.

The undersigned has examined the location of the proposed Work, the local conditions at the place where the Work is to be done, is familiar with the Contract Documents and is familiar and expressly agrees to the liquidated damages provision of the Contract Documents.

The undersigned has checked carefully all of the foregoing figures and understands that the City of Sacramento will not be responsible for any errors or omissions on the part of the undersigned in making up this Bid Proposal.

Enclosed is a Bid Proposal Guaranty, as required, consisting of a bidder’s bond or other acceptable security for not less than ten percent (10%) of the amount Bid Proposal.

The undersigned agrees that all addenda received and acknowledged herein shall become a part of and be included in this Bid Proposal. This Bid Proposal includes the following addenda:

<table>
<thead>
<tr>
<th>Add. #</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1/28/2020</td>
</tr>
<tr>
<td>2</td>
<td>2/7/2020</td>
</tr>
<tr>
<td>3</td>
<td>2/10/2020</td>
</tr>
<tr>
<td>4</td>
<td>2/18/2020</td>
</tr>
<tr>
<td>5</td>
<td>3/18/2020</td>
</tr>
<tr>
<td>6</td>
<td>3/30/2020</td>
</tr>
</tbody>
</table>
NOTE: State whether your company is a corporation, a co-partnership, private individual, or individuals doing business under a firm name.

All American Construction, Inc.

If the Bidder is a corporation, the Bid Proposal must be executed in the name of the corporation and must be signed by a duly authorized officer of the corporation.

If the Bidder is a partnership, the Bid Proposal must be executed in the name of the partnership and one of the partners must subscribe their signature thereto as the authorized representative of the partnership.

AMOUNT OF BID PROPOSAL GUARANTEE ENCLOSED:

($_________________) not less than ten percent (10%) of amount Bid Proposal

CERTIFIED CHECK
CASHIER'S CHECK
BID BOND
MONEY ORDER
OTHER SECURITY

CONTRACTOR:

By ____________________________

(Date)

Derrek Stokes

(Print or Type)

Title Vice President
Address 2048 Pasco Rd
Line Oak, CA 95953
Telephone No. 530-607-5111
Fax No. 530-267-5236
email address derrek@all-americanconstructioninc.com

Date 2/26/2020

Contractor's License No. A 3: B
Expiration Date 10/2020
Tax I.D. Nos.- Fed. 272524074
State CA

City of Sacramento Business Operation Tax Certificate No. (City will not award contract if Certificate Number is missing.)
KNOW ALL MEN BY THESE PRESENTS,

That we, _____________ All-American Construction, Inc.

as Principal, and _____________ Everest Reinsurance Company

a corporation duly organized under the laws of the State of * and duly licensed to
become sole surety on bonds required or authorized by the State of California, as Surety, are held and
firmly bound unto the City of Sacramento, hereinafter called the City, in the penal sum of ten percent
(10%) of the (BASE OR LUMP SUM) Proposal of the Principal above named, or other amount as set forth
in the Invitation to Bidders, submitted by said Principal to the City for the Work described below, for the
payment of which sum in lawful money of the United States, well and truly to be made. We bind ourselves,
our heirs, executors, administrators and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH

That whereas the Principal has submitted the above-mentioned Proposal to the City, for which Proposals
are to be opened in the Council Chambers at City Hall, Sacramento, California, on 02/26/2020 for the Work
specifically described as follows:

MEADOWVIEW ROAD COMPLETE STREET PROJECT

(T151455500)

NOW, THEREFORE, if the aforesaid Principal is awarded the Contract and within the time and
manner required under the Contract Documents, enters into a written Contract, in the prescribed
form, in accordance with the Proposal, and files two (2) bonds with the City, one to guarantee faithful
performance and the other to guarantee payment for labor and materials, and files the required
insurance policies with the City, all as required by the Contract Documents or by law, then the
obligation shall be null and void; otherwise it shall be and remain in full force and effect.

In the event suit is brought upon this bond by the Obligee and judgment is recovered, the Surety shall
pay all costs incurred by the Obligee in such suit, including a reasonable attorney's fee to be fixed
by the court, which sums shall be additional to the principal amount of this bond.

IN WITNESS WHEREOF We have hereunto set our hands and seal this 25th
day of February 2020

All-American Construction, Inc.

PRINCIPAL

2048 Paseo Road, Live Oak, CA 95953

Address

By: DERREK STOKES, VICE PRESIDENT

Everest Reinsurance Company

SURETY

P.O. Box 830, Liberty Corner, NJ 07938-0830

Address

By: K. Corey Ward, Attorney-in-Fact

See Attached – California all Purpose Acknowledgment Complies with Civil Code 1189

NOTARY

NOTARY

* Delaware

(Rev. 5-6-91)
ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California
County of Butte

On February 25, 2020 before me, Samantha Watkins, Notary Public
(insert name and title of the officer)

personally appeared K. Corey Ward
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature [Signature]

(Seal)
POWER OF ATTORNEY
EVEREST REINSURANCE COMPANY
DELAWARE

KNOW ALL PERSONS BY THESE PRESENTS: That Everest Reinsurance Company, a corporation of the State of Delaware ("Company") having its principal office located at 477 Martinsville Road, Liberty Corner, New Jersey 07938 hereinhereby nominate constitute, and appoint:


its true and lawful Attorney(s)-in-fact to make, execute, attest, seal and deliver for and on its behalf, as surety, and as its act and deed, where required, any and all bonds and undertakings in the nature thereof, for the penal sum of no one of which is in any event to exceed UNLIMITED, reserving for itself the full power of substitution and revocation.

Such bonds and undertakings, when duly executed by the aforesaid Attorney(s)-in-fact shall be binding upon the Company as fully and to the same extent as if such bonds and undertakings were signed by the President and Secretary of the Company and sealed with its corporate seal.

This Power of Attorney is granted and is signed by facsimile under and by the authority of the following Resolutions adopted by the Board of Directors of Company ("Board") on the 28th day of July 2016.

RESOLVED, that the President, any Executive Vice President, and any Senior Vice President and Anthony Romano are hereby appointed by the Board as authorized to make, execute, seal and deliver for and on behalf of the Company, any and all bonds, undertakings, contracts or obligations in surety or co-surety with others and that the Secretary or any Assistant Secretary of the Company be and that each of them hereby is authorized to attest to the execution of any such bonds, undertakings, contracts or obligations in surety or co-surety and attach thereto the corporate seal of the Company.

RESOLVED, FURTHER, that the President, any Executive Vice President, and any Senior Vice President and Anthony Romano are hereby authorized to execute powers of attorney, qualifying the attorney named in the given power of attorney to execute, on behalf of the Company, bonds and undertakings in surety or co-surety with others, and that the Secretary or any Assistant Secretary of the Company be, and that each of them is hereby authorized to attest the execution of any such power of attorney, and to attach thereto the corporate seal of the Company.

RESOLVED, FURTHER, that the signature of such officers named in the preceding resolutions and the corporate seal of the Company may be affixed to such powers of attorney or to any certificate relating thereto by facsimile, and any such power of attorney or certificate bearing such facsimile signatures or facsimile seal shall be thereafter valid and binding upon the Company with respect to any bond, undertaking, contract or obligation in surety or co-surety with others to which it is attached.

IN WITNESS WHEREOF. Everest Reinsurance Company has caused their corporate seals to be affixed hereto, and these presents to be signed by their duly authorized officers this 28th day of July 2016.

Attest: Nicole Chase, Assistant Secretary

By: Anthony Romano, Vice President

On this 28th day of July 2016, before me personally came Anthony Romano, known to me, who, being duly sworn, did execute the above instrument; that he knows the seal of said Company, that the seal affixed to the aforesaid instrument is such corporate seal and was affixed thereto, and that he executed said instrument by like order.

LINDA ROBINS
Notary Public, State of New York
No 01R96239736
Qualified in Queens County
Term Expires April 25, 2023

Linda Robins, Notary Public

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of said Company, at the Liberty Corner, this 25th day of February 2020.
CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California
County of Sutter
On 2/12/2020 before me, Elizabeth A. Sennett-Stokes, Notary Public, personally appeared Derek Stokes, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: Elizabeth A. Sennett-Stokes
Signature of Notary Public:

Place Notary Seal Above

OPTIONAL

Though this section is optional, completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document
Title or Type of Document: Bid Bond - City of Sac
Document Date: 
Number of Pages: 
Signer(s) Other Than Named Above: 

Capacity(ies) Claimed by Signer(s)
Signer's Name: 
☐ Corporate Officer — Title(s): 
☐ Partner — Limited 
☐ Individual 
☐ Trustee 
☐ Other: 
Signer Is Representing: 

Signer's Name: 
☐ Corporate Officer — Title(s): 
☐ Partner — Limited 
☐ Individual 
☐ Trustee 
☐ Other: 
Signer Is Representing: 

©2014 National Notary Association • www.NationalNotary.org • 1-800-US NOTARY (1-800-876-6897) Item #5907
DRUG-FREE WORKPLACE POLICY AND AFFIDAVIT

BID PROPOSAL MAY BE DECLARED NONRESPONSIVE IF THIS FORM (COMPLETED) IS NOT ATTACHED.
Pursuant to City Council Resolution CC90-498 dated 6/26/90 the following is required.

The undersigned contractor certifies that it and all subcontractors performing under this Agreement will provide a drug-free workplace by:

1. Publishing a "Drug-Free Workplace" statement notifying employees that the unlawful manufacture, distribution, dispensing, possession or use of a controlled substance is prohibited in the contractor's workplace and specifying the actions that will be taken against employees for violations of such prohibition.

2. Establishing a Drug-Free Awareness Program to inform employees about:
   a. The dangers of drug abuse in the workplace.
   b. The contractor's policy of maintaining a drug-free workplace.
   c. Any available drug counseling, rehabilitation, and employee assistance program.
   d. The penalties that may be imposed upon employees for drug abuse violations occurring in the workplace.

3. Notify employees that as a condition of employment under this Agreement, employees will be expected to:
   a. Abide by the terms of the statement.
   b. Notify the employer of any criminal drug statute conviction for a violation occurring in the workplace.

4. Making it a requirement that each employee to be engaged in the performance of the Agreement be given a copy of the "Drug-Free Workplace" statement.

5. Taking one of the following appropriate actions, within thirty (30) days of receiving notice from an employee or otherwise receiving such notice, that said employee has received a drug conviction for a violation occurring in the workplace:
   a. Taking appropriate disciplinary action against such an employee, up to and including termination; or
   b. Requiring such employee to participate satisfactorily in a drug abuse assistance or rehabilitation program approved for such purposes by a federal, state, or local health, law enforcement or other appropriate agency.

* I certify that no person employed by this company, corporation, or business has been convicted of any criminal drug statute violation on any job site or project where this company, corporation or business was performing was within three years of the date of my signature below.

EXCEPTION: __________ Date __________ Violation Type __________ Place of Occurrence

   If additional space is required use back of this form.

- The above statement will also be incorporated as a part of each subcontract agreement for any and all subcontractors selected for performance on this project.

IN THE EVENT THIS COMPANY, CORPORATION, OR BUSINESS IS AWARDED THIS CONSTRUCTION AGREEMENT, AS A RESULT OF THIS BID; THE CONTRACTOR WITH HIS/HER SIGNATURE REPRESENTS TO THE CITY THAT THE INFORMATION DISCLOSED IN THIS DOCUMENT IS COMPLETE AND ACCURATE. IT IS UNDERSTOOD AND AGREED THAT FALSE CERTIFICATION IS SUBJECT TO IMMEDIATE TERMINATION BY THE CITY.

The Representations Made Herein On This Document Are Made Under Penalty Of Perjury.

CONTRACTOR'S NAME: All-American Construction, Inc.

BY: ____________________________ Signature ____________________________ Date: ____________
   Vice-President ____________ Title ____________

Effects of violations:  a. Suspension of payments under the Agreement.  b. Suspension or termination of the Agreement.  c. Suspension or debarment of the contractor from receiving any Agreement from the City of Sacramento for a period not to exceed five years.

GM 681
(Rev. 10/5/01)
### Exhibit 12-B: Bidder’s List of Subcontractors (DBE and Non-DBE) Part I

As of March 1, 2015 Contractors (and sub-contractors) wishing to bid on public works contracts shall be registered with the State Division of Industrial Relations and certified to bid on Public Works contracts. Please register at: [https://efiling.dir.ca.gov/PWCR/ActionServlet?action=displayPWCRegistrationForm](https://efiling.dir.ca.gov/PWCR/ActionServlet?action=displayPWCRegistrationForm)

In accordance with Title 49, Section 26.11 of the Code of Federal Regulations, and Section 4104 of the Public Contract Code of the State of California, as amended, the following information is required for each sub-contractor who will perform work amounting to more than one half of one percent (0.5%) of the Total Base Bid or $10,000 (whichever is greater). Photocopy this form for additional firms.

<table>
<thead>
<tr>
<th>Subcontractor Name and Location</th>
<th>Line Item &amp; Description</th>
<th>Subcontract Amount</th>
<th>Percentage of Bid Item Sub-contracted</th>
<th>Contractor License Number</th>
<th>DIR Reg Number</th>
<th>DBE [Y/N]</th>
<th>DBE Cert Number</th>
<th>Annual Gross Receipts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name: American Pavement Systems</td>
<td>Line Item: microsurfacing</td>
<td>3</td>
<td>117,590.00</td>
<td>1.51</td>
<td>943792</td>
<td>Y</td>
<td>14717</td>
<td>&lt; $1 million</td>
</tr>
<tr>
<td>City, State: Chico, CA</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Age of Firm: 5 yrs.</td>
</tr>
<tr>
<td>Name: Frank Mejia Gen. Eng.</td>
<td>Line Item: #13</td>
<td>13</td>
<td>Remove Fence</td>
<td>80,530.00</td>
<td>1.1</td>
<td>6401173</td>
<td>Y</td>
<td>14717</td>
</tr>
<tr>
<td>City, State: Oroville, CA</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Age of Firm: 5 yrs.</td>
</tr>
<tr>
<td>Name: Professional Tree Care Co</td>
<td>Line Item: #3</td>
<td>32</td>
<td>Roadway Ex (Tree Removal)</td>
<td>51,360.00</td>
<td>21</td>
<td>616958</td>
<td>Y</td>
<td>14717</td>
</tr>
<tr>
<td>City, State: Berkeley, CA</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Age of Firm: 5 yrs.</td>
</tr>
<tr>
<td>Name: A &amp; D Engineering</td>
<td>Line Item: #1, #15, #20-21, #23-25, #31, #49-52, #53</td>
<td>1</td>
<td>842,423.00</td>
<td>10</td>
<td>406402</td>
<td>Y</td>
<td>14717</td>
<td>&lt; $1 million</td>
</tr>
<tr>
<td>City, State: Sacramento, CA</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Age of Firm: 5 yrs.</td>
</tr>
<tr>
<td>Name: ABSL Const.</td>
<td>Line Item: #32</td>
<td>32</td>
<td>Grind</td>
<td>11,000</td>
<td>21</td>
<td>616958</td>
<td>Y</td>
<td>14717</td>
</tr>
<tr>
<td>City, State: Sacramento, CA</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Age of Firm: 5 yrs.</td>
</tr>
<tr>
<td>Name: Clear Water Landscape</td>
<td>Line Item: #56-65</td>
<td>56</td>
<td>Landscape</td>
<td>4100,172.00</td>
<td>55</td>
<td>843899</td>
<td>N</td>
<td>14717</td>
</tr>
<tr>
<td>City, State: Cameron Park, CA</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Age of Firm: 5 yrs.</td>
</tr>
</tbody>
</table>

Distribution: Original - Local Agency File
In accordance with Title 49, Section 26 of the Code of Federal Regulations, the bidder shall list all subcontractors who provided a quote or bid, but **were not selected** to participate as a subcontractor on this project.  

**Photocopy this form for additional firms.**

<table>
<thead>
<tr>
<th>Subcontractor Name and Location</th>
<th>Line Item &amp; Description</th>
<th>Subcontract Amount</th>
<th>Percentage of Bid Item Subcontracted</th>
<th>Contractor License Number</th>
<th>DBE (Y/N)</th>
<th>DBE Cert Number</th>
<th>Annual Gross Receipts</th>
<th>Age of Firm: ___ yrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name: TCG</td>
<td>#2 SWPPP</td>
<td>13,865</td>
<td>11%</td>
<td>Specialty 1000024960</td>
<td>Y</td>
<td>362750</td>
<td>&lt;$1 million</td>
<td></td>
</tr>
<tr>
<td>City, State: Dixon, CA</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Name: J&amp;D Wall Masonry</td>
<td>#12 Masonry Wall</td>
<td>23,445</td>
<td>11%</td>
<td>3623335</td>
<td>N</td>
<td></td>
<td>&lt;$1 million</td>
<td></td>
</tr>
<tr>
<td>City, State: Lodi, CA</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Name: Interior Street Striping</td>
<td>#16, 7, 12, 17, 18, 73</td>
<td>80,975</td>
<td>11%</td>
<td>4983415</td>
<td>N</td>
<td></td>
<td>&lt;$1 million</td>
<td></td>
</tr>
<tr>
<td>City, State: Elk Grove, CA</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Name: M&amp;M Electrical</td>
<td>#19-84 Electrical</td>
<td>2,094,431</td>
<td>25%</td>
<td>260864</td>
<td>Y</td>
<td>36276</td>
<td>&lt;$1 million</td>
<td></td>
</tr>
<tr>
<td>City, State: Sacramento, CA</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Federal Project Number: APPL 50024 (43)
REQUIREMENTS OF THE NON-DISCRIMINATION IN EMPLOYEE BENEFITS CODE

INTRODUCTION

The Sacramento Non-Discrimination In Employee Benefits Code (the “Ordinance”), codified as Sacramento City Code Chapter 3.54, prohibits City contractors from discriminating in the provision of employee benefits between employees with spouses and employees with domestic partners, and between the spouses and domestic partners of employees.

APPLICATION

The provisions of the Ordinance apply to any contract or agreement (as defined below), between a Contractor and the City of Sacramento, in an amount exceeding $100,000.00. The Ordinance applies to that portion of a contractor’s operations that occur: (i) within the City of Sacramento; (ii) on real property outside the City of Sacramento if the property is owned by the City or if the City has a right to occupy the property; or (iii) at any location where a significant amount of work related to a City contract is being performed.

The Ordinance does not apply: to subcontractors or subcontracts of any Contractor or contractors; to transactions entered into pursuant to cooperative purchasing agreements approved by the Sacramento City Council; to legal contracts of other governmental jurisdictions or public agencies without separate competitive bidding by the City; where the requirements of the ordinance will violate or are inconsistent with the terms or conditions of a grant, subvention or agreement with a public agency or the instructions of an authorized representative of any such agency with respect to any such grant, subvention or agreement; to permits for excavation or street construction; or to agreements for the use of City right-of-way where a contracting utility has the power of eminent domain.

DEFINITIONS

As set forth in the Ordinance, the following definitions apply:

“Contract” means an agreement for public works or improvements to be performed, or for goods or services to be purchased or grants to be provided, at the expense of the City or to be paid out of moneys deposited in the treasury or out of the trust money under the control or collected by the City. “Contract” also means a written agreement for the exclusive use (“exclusive use” means the right to use or occupy real property to the exclusion of others, other than the right reserved by the fee owner) or occupancy of real property for a term exceeding 29 days in any calendar year, whether by singular or cumulative instrument, (i) for the operation or use by others of real property owned or controlled by the City for the operation of a business, social, or other establishment or organization, including leases, concessions, franchises and easements, or (ii) for the City’s use or occupancy of real property owned by others, including leases, concessions, franchises and easements.

“Contract” shall not include: a revocable at-will use or encroachment permit for the use of or encroachment on City property regardless of the ultimate duration of such permit; excavation, street construction or street use permits; agreements for the use of City right-of-way where a contracting utility has the power of eminent domain; or agreements governing the use of City property that
constitute a public forum for activities that are primarily for the purpose of espousing or advocating causes or ideas and that are generally protected by the First Amendment to the United States Constitution or that are primarily recreational in nature.

"Contractor" means any person or persons, firm, partnership, corporation, company, or combination thereof, that enters into a Contract with the City. "Contractor" does not include a public entity.

"Domestic Partner" means any person who has a currently registered domestic partnership with a governmental entity pursuant to state or local law authorizing the registration.

"Employee Benefits" means bereavement leave; disability, life, and other types of insurance; family medical leave; health benefits; membership or membership discounts; moving expenses; pension and retirement benefits; vacation; travel benefits; and any other benefit given to employees. "Employee benefits" shall not include benefits to the extent that the application of the requirements of this chapter to such benefits may be preempted by federal or state.

**CONTRACTOR'S OBLIGATION TO PROVIDE THE CITY WITH DOCUMENTATION AND INFORMATION**

Contractor shall provide the City with documentation and information verifying its compliance with the requirements of the Ordinance within ten (10) days of receipt of a request from the City. Contractors shall keep accurate payroll records, showing, for each City Contract, the employee’s name, address, Social Security number, work classification, straight time pay rate, overtime pay rate, overtime hours worked, status and exemptions, and benefits for each day and pay period that the employee works on the City Contract. Each request for payroll records shall be accompanied by an affidavit to be completed and returned by the Contractor, as stated, attesting that the information contained in the payroll records is true and correct, and that the Contractor has complied with the requirements of the Ordinance. A violation of the Ordinance or noncompliance with the requirements of the Ordinance shall constitute a breach of contract.

**EMPLOYER NOTICE REQUIREMENTS**

(a) The Contractor shall give each existing employee working directly on a City Contract, and (at the time of hire), each new employee, a copy of the notification provided as Attachment "A."

(b) Contractor shall post, in a place visible to all employees, a copy of the notice provided as Attachment "B."
YOUR RIGHTS UNDER THE CITY OF SACRAMENTO'S NON-DISCRIMINATION IN EMPLOYEE BENEFITS CODE

On .................. (date), your employer (the “Employer”) entered into a contract with the City of Sacramento (the “City”) for ......................... (contract details), and as a condition of that contract, agreed to abide by the requirements of the City's Non-Discrimination In Employee Benefits Code (Sacramento City Code Section 3.54).

The Ordinance does not require the Employer to provide employee benefits. The Ordinance does require that if certain employee benefits are provided by the Employer, that those benefits be provided without discrimination between employees with spouses and employees with domestic partners, and without discrimination between the spouse or domestic partner of employees.

The Ordinance covers any employee working on the specific contract referenced above, but only for the period of time while those employees are actually working on this specific contract.

The included employee benefits are:

- Bereavement leave
- Disability, life and other types of insurance
- Family medical leave
- Health benefits
- Membership or membership discounts
- Moving expenses
- Pension and retirement benefits
- Vacation
- Travel benefits
- Any other benefits given to employees

(Employee Benefits does not include benefits that may be preempted by federal or state law.)

If you feel you have been discriminated or retaliated against by your employer in the terms and conditions of your application for employment, or in your employment, or in the application of these employee benefits, because of your status as an applicant or as an employee protected by the Ordinance, or because you reported a violation of the Ordinance, and after having exhausted all remedies with your employer,
You May . . .

○ Submit a written complaint to the City of Sacramento, Contract Services Unit, containing the details of the alleged violation. The address is:

City of Sacramento
Procurement Services Division
915 I Street, Second Floor
Sacramento, CA 95814

○ Bring an action in the appropriate division of the Superior Court of the State of California against the Employer and obtain the following remedies:

- Reinstatement, injunctive relief, compensatory damages and punitive damages

- Reasonable attorney's fees and costs
YOUR RIGHTS UNDER THE CITY OF SACRAMENTO'S NON-DISCRIMINATION IN EMPLOYEE BENEFITS CODE

If your employer provides employee benefits, they must be provided to those employees working on a City of Sacramento contract without discriminating between employees with spouses and employees with domestic partners.

The included employee benefits are:

- Bereavement leave
- Disability, life and other types of insurance
- Family medical leave
- Health benefits
- Membership or membership discounts
- Moving expenses
- Pension and retirement benefits
- Vacation
- Travel benefits
- Any other benefits given to Employees

If you feel you have been discriminated against by your employer . . .

You May . . .

☐ Submit a written complaint to the City of Sacramento, Contract Services Unit, containing the details of the alleged violation. The address is:

City of Sacramento
Procurement Services Division
915 I Street, Second Floor
Sacramento, CA 95814

☐ Bring an action in the appropriate division of the Superior Court of the State of California against the employer and obtain reinstatement, injunctive relief, compensatory damages, punitive damages and reasonable attorney’s fees and costs.

Discrimination and Retaliation Prohibited.

If you feel you have been discriminated or retaliated against by your employer in the terms and conditions of your application for employment, or in your employment, because of your status as an applicant or as an employee protected by the Ordinance, or because you reported a violation of this Ordinance . . .

You May Also . . .

Submit a written complaint to the City of Sacramento, Contract Services Unit, at the same address, containing the details of the alleged violation.
MINIMUM QUALIFICATIONS QUESTIONNAIRE

Sacramento City Code Section 3.60.020 authorizes the Sacramento City Council to adopt standard minimum qualifications for bidders on competitively bid public works construction projects, and requires, among other provisions, that a bidder meet such minimum qualifications at the time of bid opening in order to bid. On July 31, 2007, the City Council adopted Resolution No. 2007-574 establishing these standard minimum qualifications. Pursuant to City Code section 3.60.020, a bidder failing to meet these minimum qualifications at the time of bid opening shall not be considered a responsible bidder for purposes of bidding on the subject project.

All bidders must demonstrate compliance with the minimum qualifications established by Resolution No. 2007-574 by completing all of the questions contained in this questionnaire. Bidder responses shall be limited to those operating business units, offices, branches and/or subsidiary divisions of the bidder that will be involved with the performance of any project work if awarded the contract. If a bidder answers "yes" to any single question, fails to submit a fully completed questionnaire, or submits false information, this will result in a determination that the minimum qualifications are not met, and the bidder shall not be considered a qualified bidder for purposes of bidding on this contract. If two or more entities submit a bid on a contract as a Joint Venture, each entity within the Joint Venture must separately meet these minimum qualifications for the Joint Venture to be considered a qualified bidder.

The City of Sacramento ("City") shall make its determination on the basis of the submitted questionnaire, as well as any relevant information that is obtained from others or as a result of investigation by the City. While it is the intent of this questionnaire to assist the City in determining whether bidders possess the minimum qualifications necessary to submit bids on the City's competitively bid public works construction contracts, the fact that a bidder submits a questionnaire demonstrating that it meets these minimum qualifications shall not in any way limit or affect the City's ability to: (1) review other information contained in the bid submitted by the bidder, and additional relevant information, and determine whether the contractor is a responsive and/or responsible bidder; or (2) establish pre-qualification requirements for a specific contract or contracts.

By submitting this questionnaire, the bidder consents to the disclosure of its questionnaire answers: (i) to third parties for purposes of verification and investigation; (ii) in connection with any protest, challenge or appeal of any action taken by the City; and (iii) as required by any law or regulation, including without limitation the California Public Records Act (Calif. Gov't Code sections 6250 et seq.). Each questionnaire must be signed under penalty of perjury in the manner designated at the end of the form, by an individual who has the legal authority to bind the bidder submitting the questionnaire. If any information provided by a bidder becomes inaccurate, the bidder shall immediately notify the City and provide updated accurate information in writing, under penalty of perjury.

FOR CITY CLERK USE ONLY

RESOLUTION NO.: 2007-574

DATE ADOPTED: July 31, 2007

Minimum Qualifications Questionnaire
Page 1 of 6
QUESTIONNAIRE

NOTICE: For firms that maintain other operating business units, offices, branches and/or subsidiary divisions that will not be involved with the performance of any project work if the firm is awarded the contract, references hereafter to “your firm” shall mean only those operating business units, offices, branches and/or subsidiary divisions that will be involved with the performance of any project work.

All of the following questions regarding “your firm” refer to the firm (corporation, partnership or sole proprietor) submitting this questionnaire, as well as any firm(s) with which any of your firm’s owners, officers, or partners are or have been associated as an owner, officer, partner or similar position within the last five years.

The firm submitting this questionnaire shall not be considered a responsible bidder if the answer to any of these questions is “yes”, or if the firm submits a questionnaire that is not fully completed or contains false information.

1. Classification & Expiration Date(s) of California Contractor’s License Number(s) held by firm:
   Class A & B Exp 6/30/2020

2. Has a contractor’s license held by your firm and/or any owner, officer or partner of your firm been revoked at anytime in the last five years?
   □ Yes  □ No

3. Within the last five years, has a surety firm completed a contract on your firm’s behalf, or paid for completion of a contract to which your firm was a party, because your firm was considered to be in default or was terminated for cause by the project owner?
   □ Yes  □ No

4. At the time of submitting this minimum qualifications questionnaire, is your firm ineligible to bid on or be awarded a public works contract, or perform as a subcontractor on a public works contract, pursuant to either California Labor Code section 1777.1 (prevailing wage violations) or Labor Code section 1777.7 (apprenticeship violations)?
   □ Yes  □ No

5. At any time during the last five years, has your firm, or any of its owners, officers or partners been convicted of a crime involving the awarding of a contract for a government construction project, or the bidding or performance of a government contract?
   □ Yes  □ No

FOR CITY CLERK USE ONLY

RESOLUTION NO.: 2007-574

DATE ADOPTED: July 31, 2007

Minimum Qualifications Questionnaire
Page 2 of 6
6. Answer either subsection A or B, as applicable:

A. Your firm has completed three or more government construction contracts in Sacramento County within the last five years: Within those five years, has your firm been assessed liquidated damages on three or more government construction contracts in Sacramento County for failure to complete contract work on time?

NOTE: If there is a pending administrative or court action challenging the assessment of liquidated damages on a government contract within the last five years, you need not include that contract in responding to this question.

☐ Yes ☐ No ☐ Not applicable

OR

B. Your firm has not completed at least three government construction contracts in Sacramento County within the last five years: Within the last three years, has your firm been assessed liquidated damages on three or more government construction contracts for failure to complete contract work on time?

NOTE: If there is a pending administrative or court action challenging an assessment of liquidated damages on a government contract within the last three years, you need not include that contract in responding to this question.

☐ Yes ☐ No ☐ Not applicable

7. In the last three years has your firm been debarred from bidding on, or completing, any government agency or public works construction contract for any reason?

NOTE: If there is a pending administrative or court action challenging a debarment, you need not include that debarment in responding to this question.

☐ Yes ☐ No

8. Has CAL OSHA assessed a total of three or more penalties against your firm for any "serious" or "willful" violation occurring on construction projects performed in Sacramento County at any time within the last three years?

NOTE: If there is a pending administrative or court action appealing a penalty assessment, you need not include that penalty assessment in responding to this question.

☐ Yes ☐ No

FOR CITY CLERK USE ONLY

DATE ADOPTED: July 31, 2007

RESOLUTION NO.: 2007-574

Minimum Qualifications Questionnaire
Page 3 of 6
9. Answer either subsection A or B, as preferred:

A. In the last three years has your firm had a three year average Workers' Compensation experience modification rate exceeding 1.1?

☐ Yes  ☐ No

OR

B. In the last three years has your firm had a three-year average incident rate for total lost workday cases exceeding 10?

NOTE: Incident rates represent the number of lost workday cases per 100 full-time workers and is to be calculated as: \(\frac{N}{EH} \times 200,000\), where

\[
\begin{align*}
N &= \text{number of lost workday cases (as defined by the U.S. Dept. of Labor, Bureau of Labor Statistics)} \\
EH &= \text{total hours worked by all employees during the calendar year} \\
200,000 &= \text{base for 100 equivalent full-time working (working 40 hours per week, 50 weeks per year)}
\end{align*}
\]

☐ Yes  ☒ No

10. In the past three years, has the federal EPA, Region IX or a California Air Quality Management District or Regional Water Quality Control Board assessed penalties three or more times, either against your firm, or against the project owner for a violation resulting in whole or in part from any action or omission by your firm on a project on which your firm was a contractor in Sacramento County?

NOTE: If there is a pending administrative or court action appealing a penalty assessment, you need not include that penalty assessment in responding to this question.

☐ Yes  ☒ No

FOR CITY CLERK USE ONLY

RESOLUTION NO.: 2007-574

DATE ADOPTED: July 31, 2007

Minimum Qualifications Questionnaire
Page 4 of 6
11. In the past three years, has the federal EPA, Region IX or a California Air Quality Management District or Regional Water Quality Control Board assessed a single penalty of $100,000 or more, either against your firm, or against the project owner for a violation resulting in whole or in part from any action or omission by your firm on a project on which your firm was the contractor in Sacramento County?

NOTE: If there is a pending administrative or court action appealing a penalty assessment, you need not include that penalty assessment in responding to this question.

☐ Yes ☒ No

12. In the past three years, have civil penalties been assessed against your firm pursuant to California Labor Code 1777.7 for violation of California public works apprenticeship requirements, three or more times?

NOTE: If there is a pending administrative or court action appealing a penalty assessment, you need not include that penalty assessment in responding to this question.

☐ Yes ☒ No

13. In the past three years, has a public agency in California withheld contract payments or assessed penalties against your firm for violation of public works prevailing wage requirements, three or more times?

NOTE: If there is a pending administrative or court action appealing a withholding or penalty assessment, you need not include that withholding or penalty assessment in responding to this question.

☐ Yes ☒ No

14. Has your firm been assessed penalties for violation of public works prevailing wage requirements in California, in an aggregate amount for the past three years of $50,000 or more?

NOTE: If there is a pending administrative or court action appealing a penalty assessment, you need not include that penalty assessment in responding to this question.

☐ Yes ☒ No

FOR CITY CLERK USE ONLY

RESOLUTION NO.: 2007-574

DATE ADOPTED: July 31, 2007

Minimum Qualifications Questionnaire
Page 5 of 6
VERIFICATION AND SIGNATURE

I, the undersigned, certify and declare that I have read all the foregoing answers to this Minimum Qualifications Questionnaire, and know their contents. The matters stated in these Questionnaire answers are true of my own knowledge and belief, except as to those matters stated on information and belief, and as to those matters I believe them to be true. I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

Signed at __________, CA, on __________
(Location) (Date)

Signature: __________

Print name: Derrek Stokes

Title: Vice-President

NOTE: If two or more entities submit a bid on a contract as a Joint Venture, each entity within the Joint Venture must submit a separate Minimum Qualifications Questionnaire.

FOR CITY CLERK USE ONLY

RESOLUTION NO.: 2007-574

DATE ADOPTED: July 31, 2007

Minimum Qualifications Questionnaire
Page 6 of 6
EQUAL EMPLOYMENT OPPORTUNITY CERTIFICATION

The bidder **All-American Construction Inc.**, proposed subcontractor ______________________, hereby certifies that he has ☒, has not ☐, participated in a previous contract or subcontract subject to the equal opportunity clauses, as required by Executive Orders 10925, 11114, or 11246, and that, where required, he has filed with the Joint Reporting Committee, the Director of the Office of Federal Contract Compliance, a Federal Government contracting or administering agency, or the former President's Committee on Equal Employment Opportunity, all reports due under the applicable filing requirements.

**Note:** The above certification is required by the Equal Employment Opportunity Regulations of the Secretary of Labor (41 CFR 60-1.7(b) (1)), and must be submitted by bidders and proposed subcontractors only in connection with contracts and subcontracts which are subject to the equal opportunity clause. Contracts and subcontracts which are exempt from the equal opportunity clause are set forth in 41 CFR 60-1.5. (Generally only contracts or subcontracts of $10,000 or under are exempt.)

Currently, Standard Form 100 (EEO-1) is the only report required by the Executive Orders or their implementing regulations.

Proposed prime contractors and subcontractors who have participated in a previous contract or subcontract subject to the Executive Orders and have not filed the required reports should note that 41 CFR 60-1.7(b) (1) prevents the award of contracts and subcontracts unless such contractor submits a report covering the delinquent period or such other period specified by the Federal Highway Administration or by the Director, Office of Federal Contract Compliance, U.S. Department of Labor.
PUBLIC CONTRACT CODE

Public Contract Code Section 10285.1 Statement

In conformance with Public Contract Code Section 10285.1 (Chapter 376, Stats. 1985), the bidder hereby declares under penalty of perjury under the laws of the State of California that the bidder has [ ] has not X been convicted within the preceding three years of any offenses referred to in that section, including any charge of fraud, bribery, collusion, conspiracy, or any other act in violation of any state or Federal antitrust law in connection with the bidding upon, award of, or performance of, any public works contract, as defined in Public Contract Code Section 1101, with any public entity, as defined in Public Contract Code Section 1100, including the Regents of the University of California or the Trustees of the California State University. The term "bidder" is understood to include any partner, member, officer, director, responsible managing officer, or responsible managing employee thereof, as referred to in Section 10285.1.

Note: The bidder must place a check mark after "has" or "has not" in one of the blank spaces provided. The above Statement is part of the Proposal. Signing this Proposal on the signature portion thereof shall also constitute signature of this Statement. Bidders are cautioned that making a false certification may subject the certifier to criminal prosecution.

____________________________________

Public Contract Code Section 10162 Questionnaire

In conformance with Public Contract Code Section 10162, the Bidder shall complete, under penalty of perjury, the following questionnaire:

Has the bidder, any officer of the bidder, or any employee of the bidder who has a proprietary interest in the bidder, ever been disqualified, removed, or otherwise prevented from bidding on, or completing a federal, state, or local government project because of a violation of law or a safety regulation?

Yes ___ No X

If the answer is yes, explain the circumstances in the following space.
Public Contract Code 10232 Statement

In conformance with Public Contract Code Section 10232, the Contractor, hereby states under penalty of perjury, that no more than one final unappealable finding of contempt of court by a federal court has been issued against the Contractor within the immediately preceding two year period because of the Contractor's failure to comply with an order of a federal court which orders the Contractor to comply with an order of the National Labor Relations Board.

Note: The above Statement and Questionnaire are part of the Proposal. Signing this Proposal on the signature portion thereof shall also constitute signature of this Statement and Questionnaire. Bidders are cautioned that making a false certification may subject the certifier to criminal prosecution.
Noncollusion Affidavit

(Title 23 United States Code Section 112 and Public Contract Code Section 7106)

To the CITY / COUNTY of Sacramento, DEPARTMENT OF PUBLIC WORKS.

In conformance with Title 23 United States Code Section 112 and Public Contract Code 7106 the bidder declares that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding, that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and, further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

Note: The above Noncollusion Affidavit is part of the Proposal. Signing this Proposal on the signature portion thereof shall also constitute signature of this Noncollusion Affidavit. Bidders are cautioned that making a false certification may subject the certifier to criminal prosecution.
DEBARMENT AND SUSPENSION CERTIFICATION

TITLE 49, CODE OF FEDERAL REGULATIONS, PART 29

The bidder, under penalty of perjury, certifies that, except as noted below, he/she or any other person associated therewith in the capacity of owner, partner, director, officer, manager:

- is not currently under suspension, debarment, voluntary exclusion, or determination of ineligibility by any Federal agency;
- has not been suspended, debarred, voluntarily excluded or determined ineligible by any Federal agency within the past 3 years;
- does not have a proposed debarment pending; and
- has not been indicted, convicted, or had a civil judgement rendered against it by a court of competent jurisdiction in any matter involving fraud or official misconduct within the past 3 years.

If there are any exceptions to this certification, insert the exceptions in the following space.

Exceptions will not necessarily result in denial of award, but will be considered in determining bidder responsibility. For any exception noted above, indicate below to whom it applies, initiating agency, and dates of action.

Notes: Providing false information may result in criminal prosecution or administrative sanctions. The above certification is part of the Proposal. Signing this Proposal on the signature portion thereof shall also constitute signature of this Certification.
NONLOBBYING CERTIFICATION
FOR FEDERAL-AID CONTRACTS

The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

(1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

(2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure of Lobbying Activities," in conformance with its instructions.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by Section 1352, Title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure.

The prospective participant also agrees by submitting his or her bid or proposal that he or she shall require that the language of this certification be included in all lower tier subcontracts, which exceed $100,000 and that all such subrecipients shall certify and disclose accordingly.
<table>
<thead>
<tr>
<th>1. Type of Federal Action:</th>
<th>2. Status of Federal Action:</th>
<th>3. Report Type:</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. contract</td>
<td>a. bid/offer/application</td>
<td>a. initial</td>
</tr>
<tr>
<td>b. grant</td>
<td>b. initial award</td>
<td>b. material change</td>
</tr>
<tr>
<td>c. cooperative agreement</td>
<td>c. post-award</td>
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<td>d. loan</td>
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<td>e. loan guarantee</td>
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<tr>
<td>f. loan insurance</td>
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</tbody>
</table>

4. Name and Address of Reporting Entity
   - Prime
   - Subawardee
   - Tier _____, if known

5. If Reporting Entity in No. 4 is Subawardee, Enter Name and Address of Prime:
   - Congressional District, if known
   - Federal Department/Agency:
   - CFDA Number, if applicable
   - Award Amount, if known
   - Individuals Performing Services (including address if different from No. 10a)

10. a. Name and Address of Lobby Entity
    (If individual, last name, first name, MI)
    - (attach Continuation Sheet(s) if necessary)

11. Amount of Payment (check all that apply)
    - $ __________
    - actual
    - planned

12. Form of Payment (check all that apply):
    - a. cash
    - b. in-kind; specify: nature
    - value

13. Type of Payment (check all that apply)
    - a. retainer
    - b. one-time fee
    - c. commission
    - d. contingent fee
    - e. deferred
    - f. other, specify

14. Brief Description of Services Performed or to be performed and Date(s) of Service, including officer(s), employee(s), or member(s) contacted, for Payment Indicated in Item 11:
    - (attach Continuation Sheet(s) if necessary)

15. Continuation Sheet(s) attached: Yes ❏ No ❏

16. Information requested through this form is authorized by Title 31 U.S.C. Section 1352. This disclosure of lobbying reliance was placed by the tier above when his transaction was made or entered into. This disclosure is required pursuant to 31 U.S.C. 1352. This information will be reported to Congress semiannually and will be available for public inspection. Any person who fails to file the required disclosure shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure.

Federal Use Only:

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Standard Form - 11.0

Date: 12/24/2020

Page 304 of 580
INSTRUCTIONS FOR COMPLETION OF SF-LLL,
DISCLOSURE OF LOBBYING ACTIVITIES

This disclosure form shall be completed by the reporting entity, whether subawardee or prime Federal recipient, at the initiation or receipt of covered Federal action or a material change to previous filing pursuant to title 31 U.S.C. section 1352. The filing of a form is required for such payment or agreement to make payment to lobbying entity for influencing or attempting to influence an officer or employee of any agency, a Member of Congress an officer or employee of Congress or an employee of a Member of Congress in connection with a covered Federal action. Attach a continuation sheet for additional information if the space on the form is inadequate. Complete all items that apply for both the initial filing and material change report. Refer to the implementing guidance published by the Office of Management and Budget for additional information.

1. Identify the type of covered Federal action for which lobbying activity is and/or has been secured to influence, the outcome of a covered Federal action.
2. Identify the status of the covered Federal action.
3. Identify the appropriate classification of this report. If this is a follow-up report caused by a material change to the information previously reported, enter the year and quarter in which the change occurred. Enter the date of the last, previously submitted report by this reporting entity for this covered Federal action.
4. Enter the full name, address, city, state and zip code of the reporting entity. Include Congressional District if known. Check the appropriate classification of the reporting entity that designates if it is or expects to be a prime or subawardee recipient. Identify the tier of the subawardee, e.g., the first subawardee of the prime is the first tier. Subawards include but are not limited to subcontracts, subgrants and contract awards under grants.
5. If the organization filing the report in Item 4 checks "Subawardee" then enter the full name, address, city, state and zip code of the prime Federal recipient. Include Congressional District, if known.
6. Enter the name of the Federal agency making the award or loan commitment. Include at least one organization level below agency name, if known. For example, Department of Transportation, United States Coast Guard.
7. Enter the Federal program name or description for the covered Federal action (Item 1). If known, enter the full Catalog of Federal Domestic Assistance (CFDA) number for grants, cooperative agreements, loans and loan commitments.
8. Enter the most appropriate Federal identifying number available for the Federal action identification in item 1 (e.g., Request for Proposal (RFP) number, Invitation for Bid (IFB) number, grant announcement number, the contract grant or loan award number, the application/proposal control number assigned by the Federal agency). Include prefixes, e.g., "RFP-DE-90-001." 
9. For a covered Federal action where there has been an award or loan commitment by the Federal agency, enter the Federal amount of the award/loan commitments for the prime entity identified in item 4 or 5.
10. (a) Enter the full name, address, city, state and zip code of the lobbying entity engaged by the reporting entity identified in item 4 to influenced the covered Federal action.
11. Enter the amount of compensation paid or reasonably expected to be paid by the reporting entity (item 4) to the lobbying entity (item 10). Indicate whether the payment has been made (actual) or will be made (planned). Check all boxes that apply. If this is a material change report, enter the cumulative amount of payment made or planned to be made.
12. Check the appropriate box(es). Check all boxes that apply. If payment is made through an in-kind contribution, specify the nature and value of the in-kind payment.
13. Check the appropriate box(es). Check all boxes that apply. If other, specify nature.
14. Provide a specific and detailed description of the services that the lobbyist has performed or will be expected to perform and the date(s) of any services rendered. Include all preparatory and related activity not just time spent in actual contact with Federal officials. Identify the Federal officer(s) or employee(s) contacted or the officer(s) employee(s) or Member(s) of Congress that were contacted.
15. Check whether or not a continuation sheet(s) is attached.
16. The certifying official shall sign and date the form, print his/her name title and telephone number.

Public reporting burden for this collection of information is estimated to average 30 minutes per response, including time for reviewing instruction, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0046), Washington, D.C. 20503.

SF-LLL-Instructions Rev 06-04-96}
CITY/COUNTY OF Sacramento

DATA UNIVERSAL NUMBERING SYSTEM (D-U-N-S) NUMBER

Submit this form with the Executed Contract. If you fail to submit your D-U-N-S Number, the Department will not approve the contract.

CONTRACT NUMBER: 948762
CONTRACTOR NAME: All-American Construction, Inc.

BUSINESS ADDRESS (D-U-N-S Number Location):

STREET: 2048 Paseo Rd
CITY: Livermore, CA
STATE: CA
ZIP CODE: 95353

D-U-N-S Number: 0108474799

Contact Name: Elizabeth Stokes
Telephone No: 530-617-5111
TITLE VI
Title VI Language

APPENDIX A
During the performance of this contract, the contractor, for itself, its assignees and successors in interest (hereinafter referred to as the “contractor”) agrees as follows:

(1) **Compliance with Regulations:**
The contractor shall comply with the Regulations relative to nondiscrimination in Federally-assisted programs of the Department of Transportation (hereinafter, “DOT”) Title 49, Code of Federal Regulations, Part 21, as they may be amended from time to time, (hereinafter referred to as the Regulations), which are herein incorporated by reference and made a part of this contract.

(2) **Nondiscrimination:**
The contractor, with regard to the work performed by it during the contract, shall not discriminate on the grounds of race, color, or national origin in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The contractor shall not participate either directly or indirectly in the discrimination prohibited by section 21.5 of the Regulations, including employment practices when the contract covers a program set forth in Appendix B of the Regulations.

(3) **Solicitations for Subcontracts, Including Procurements of Materials and Equipment:**
In all solicitations either by competitive bidding or negotiation made by the contractor for work to be performed under a subcontract, including procurements of materials or leases of equipment, each potential subcontractor or supplier shall be notified by the contractor of the contractor's obligations under this contract and the Regulations relative to nondiscrimination on the grounds of race, color, or national origin.

(4) **Information and Reports:**
The contractor shall provide all information and reports required by the Regulations or directives issued pursuant thereto, and shall permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the (Recipient) or the (Name of Appropriate Administration) to be pertinent to ascertain compliance with such Regulations, orders and instructions. Where any information required of a contractor is in the exclusive possession of another who fails or refuses to furnish this information the contractor shall so certify to the (Recipient), or the (Name of Appropriate Administration) as appropriate, and shall set forth what efforts it has made to obtain the information.

(5) **Sanctions for Noncompliance:**
In the event of the contractor’s noncompliance with the nondiscrimination provisions of this contract, the (Recipient) shall impose such contract sanctions as it or the (Name of Appropriate Administration) may determine to be appropriate. Including, but not limited to:

(a) withholding of payments to the contractor under the contract until the contractor complies, and/or
(b) cancellation, termination or suspension of the contract, in whole or in part.

(6) **Incorporation of Provisions:**
The contractor shall include the provisions of paragraphs (1) through (6) in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Regulations, or directives issued pursuant thereto. The contractor shall take such action with respect to any subcontract or procurement as the (Recipient) or the (Name of Appropriate Administration) may direct as a means of enforcing such provisions including sanctions for non-compliance. Provided, however, that, in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or supplier as a result of such direction, the contractor may request the (Recipient) to enter into such litigation to protect the interests of the (Recipient), and, in addition, the contractor may request the United States to enter into such litigation to protect the interests of the United States.
SECTION NO. 13 - CONTRACT FORMS

Agreement
Payment Bond
Performance Bond
Worker's Compensation Certification
Construction & Demolition Debris Recycling Requirements
Guarantee
FOLLOWING FORMS TO BE FILLED OUT

AND SIGNED

ONLY

IF AWARDED CONTRACT
AGREEMENT
(Construction Contract Over $25,000)
AWARDING PROJECT AT: $8,052,711.00

THIS AGREEMENT, dated for identification May 5, 2020, is made and entered into
between the CITY OF SACRAMENTO, a municipal corporation ("City"), and All-
American Construction, 2048 Paseo Road, Live Oak, CA 95953 ("Contractor").

The City and Contractor hereby mutually agree as follows:

1. CONTRACT DOCUMENTS

The Contract Documents, sometimes also referred to as the "Contract," consist of the
following items, which are hereby incorporated by reference as if set forth in full in this
Agreement:

Notice to Contractors
Proposal Form submitted by the Contractor
Instructions to Bidders
Subcontractor and Local Business Enterprise Participation Form
Drug-Free Workplace Policy and Affidavit
Construction and Demolition (C&D) Debris Recycling Requirements
Workers’ Compensation Insurance Certification
Federal or State funding requirements (if applicable)
Local Business Enterprise (LBE) Requirements
Requirements of the Non-Discrimination in Employee Benefits Code
Ban-The-Box Requirements
Notice Regarding Assembly Bill 626
Addenda, if any
This Agreement
Standard Specifications
Special Provisions
Plans and Technical Specifications
The drawings and other data and all developments thereof prepared by City pursuant
to the Contract
Any modifications of any of the foregoing made or approved by City, including but not
limited to duly authorized change orders

Unless specifically noted otherwise, references to the "Standard Specifications" shall mean
and refer to the Standard Specifications for Public Construction of the City of Sacramento
approved by the Sacramento City Council on June 4, 2007 (Resolution No. 2007-350), and any
subsequent amendments thereto approved by the Sacramento City Council or the
Sacramento City Manager. Work called for in any one Contract Document and not mentioned
in another is to be performed and executed as if mentioned in all Contract Documents. The
table of contents, titles and headings contained in the Contract Documents are provided
solely to facilitate reference to various provisions of the Contract Documents and in no way
affect or limit the interpretation of the provisions to which they refer.
2. **DEFINITIONS**

Unless otherwise specifically provided herein, all words and phrases defined in the Standard Specifications shall have the same meaning and intent in this Agreement.

3. **AGREEMENT CONTROLS**

In the event of a conflict between any of the terms and conditions set forth in this Agreement and the terms and conditions set forth in other Contract Documents, the terms and conditions set forth in this Agreement shall prevail, except that the provisions of any duly authorized change order shall prevail over any conflicting provisions of this Agreement.

4. **SCOPE OF CONTRACT**

Contractor agrees to furnish all tools, equipment, apparatus, facilities, labor, material and transportation necessary to perform and complete in a good and workmanlike manner to the satisfaction of City, all the Work called for in the Contract Documents entitled:

**Meadowview Road Complete Street Project**

*(PN: T15145500)*

Including the Work called for in the following alternative bid items described in the Proposal Form:

Contractor agrees to perform such Work in the manner designated in and in strict conformity with the Contract Documents.

5. **CONTRACT AMOUNT AND PAYMENTS**

City agrees to pay and Contractor agrees to accept, as complete payment for the above Work, in accordance with the schedule and procedures set forth in the Contract Documents and subject to deductions, withholdings and additions as specified in the Contract Documents, a total sum that shall not exceed the total bid amount set forth in Contractor’s Proposal Form. In addition, subject to deductions, withholdings and additions as specified in the Contract Documents, payment for individual items of the Work shall be computed as follows:

A. For items of the Work for which a lump sum price is specified in Contractor’s Proposal Form, Contractor shall be paid the lump sum price(s) specified in Contractor’s Proposal Form; and

B. For items of the Work for which a unit price is specified in Contractor’s Proposal Form, Contractor shall be paid the sum computed at such unit price, or computed at a different price if such different price is determined by City in accordance with the Standard Specifications, based on the actual amount of each such item performed and/or furnished and incorporated in the Work; provided that in no event shall the
total sum for a unit price item exceed the total bid amount set forth for such item in
the Contractor's Proposal Form, unless authorized by Change Order.

6. PROGRESS PAYMENTS

Subject to the terms and conditions of the Contract, City shall cause payments to be made
upon demand of Contractor as follows:

A. On or about the first of the month, the Engineer shall present to the Contractor a
statement showing the amount of labor and materials incorporated in the Work
through the twentieth (20) calendar day of the preceding month. After both
Contractor and Engineer approve the statement in writing, and the City's labor
compliance officer provides written approval, the City shall issue a certificate for
ninety-five (95) percent of the amount it shall find to be due, subject to any
deductions or withholdings authorized or required under the Contract or any
applicable Laws or Regulations.

B. No inaccuracy or error in said monthly estimates shall operate to release Contractor
from damages arising from such Work or from enforcement of each and every
provision of the Contract Documents, and City shall have the right subsequently to
correct any error made in any estimate for payment.

C. Contractor shall not be paid for any defective or improper Work.

D. The remaining five (5) percent of the value of the Work performed under the
Contract, if unencumbered and subject to any deductions or withholdings
authorized or required under the Contract or any applicable Laws or Regulations,
shall be released not later than sixty (60) days after completion and final
acceptance of the Work by City. Acceptance by Contractor of the final payment
shall constitute a waiver of all claims against the City arising under the Contract
Documents, except for disputed claims in stated amounts that the Contractor
specifically reserves in writing, but only to the extent that the Contractor has
complied with all procedures and requirements applicable to the presentation and
processing of such claim(s) under the Contract Documents. Contractor shall be
entitled to substitute securities for retention or to direct that payments of
retention be made into escrow, as provided in Public Contract Code Section
22300, upon execution of the City's Escrow Agreement for Security Deposits in
Lieu of Retention.

E. The parties agree that, for purposes of the timely progress payment requirements
specified in Public Contract Code Section 20104.50, the date that the City receives a
statement jointly approved by the Contractor and the Engineer as provided above
shall be deemed to constitute the date that City receives an undisputed and properly
submitted payment request from the Contractor. Progress payments not made within
30 days after this date may be subject to payment of interest as provided in Public
Contract Code Section 20104.50.
F. This Contract is subject to compliance monitoring and enforcement by the California Department of Industrial Relations, as specified in California Labor Code section 1771.4.

7. RETENTION OF SUMS CHARGED AGAINST CONTRACTOR

When, under the provisions of this Contract or any applicable Laws or Regulations, City is authorized or required to withhold, deduct or charge any sum of money against Contractor, City may deduct and retain the amount of such charge from the amount of the next succeeding progress estimate(s), or from any other moneys due or that may become due Contractor from City. If, on completion or termination of the Contract, sums due Contractor are insufficient to pay City's charges, City shall have the right to recover the balance from Contractor or its Sureties.

8. COMMENCEMENT AND PROSECUTION OF WORK

Contractor shall commence the Work not later than fifteen (15) working days after the date of the written Notice to Proceed from City to Contractor and shall diligently prosecute the Work to final completion. The phrase "commence the Work" means to engage in a continuous program on-site including, but not limited to, site clearance, grading, dredging, land filling and the fabrications, erection, or installation of the Work. The Notice to Proceed shall be issued within fifteen (15) calendar days following execution of the Agreement by the City and the filing by Contractor of the required Bonds and proof of insurance, provided that the Engineer may delay issuance of the Notice to Proceed if the Engineer determines in the Engineer's sole discretion that conditions on the site of the Work are unsuitable for commencement of the Work. After the Notice to Proceed is issued, the continuous prosecution of Work by Contractor shall be subject only to Excusable Delays as defined in this Agreement.

9. TIME OF COMPLETION

The entire Work shall be brought to completion in the manner provided for in the Contract Documents on or before 130 working days from the date of the Notice to Proceed (hereinafter called the "Completion Date") unless extensions of time are granted in accordance with the Contract Documents.

Failure to complete the entire Work by the Completion Date and in the manner provided for in the Contract Documents shall subject Contractor to liquidated damages as provided in this Agreement. Time is and shall be of the essence in the performance of the Contract and the Work.

10. PAYMENTS DO NOT IMPLY ACCEPTANCE OF WORK

The payment of any progress payment, or the acceptance thereof by Contractor, shall not constitute acceptance of the Work or any portion thereof and shall in no way reduce the liability of Contractor to replace unsatisfactory work or material, whether or not the
unsatisfactory character of such work or material was apparent or detected at the time such payment was made.

11. ACCEPTANCE NOT RELEASE

Contractor shall correct immediately any defective or imperfect work or materials that may be discovered before final acceptance of the entire work, whether or not such defect or imperfection was previously noticed or identified by the City. The inspection of the Work, or any part thereof, shall not relieve Contractor of any of its obligations to perform satisfactory work as herein specified.

Failure or neglect on the part of City or any of its officers, employees or authorized agents to discover, identify, condemn or reject defective or imperfect work or materials shall not be construed to imply an acceptance of such work or materials, if such defect or imperfection becomes evident at any time prior to final acceptance of the entire Work, nor shall such failure or neglect be construed as barring City from enforcing Contractor’s warranty(ies) or otherwise recovering damages or such a sum of money as may be required to repair or rebuild the defective or imperfect work or materials whenever City may discover the same, subject only to any statutes of limitation that may apply to any such claim.

12. CITY’S RIGHT TO TAKE POSSESSION OF THE WORK IN WHOLE OR IN PART

The City shall have the right at any time to enter upon the Work and perform work not covered by this Contract, or to occupy and use a portion of the Work, prior to the date of the final acceptance of the Work as a whole, without in any way relieving Contractor of any obligations under this Contract.

13. NO WAIVER OF REMEDIES

Neither the inspection by City, its officers, employees or agents, nor any certificate or other approval for the payment of money, nor any payment for, nor acceptance of the whole or any part of the Work by City, nor any extensions of time, nor any position taken by City, its officers, employees or its agents shall operate as a waiver of any provision of the Contract Documents nor of any power herein reserved to City or any right to damages herein provided, nor shall any waiver of any breach of this Agreement be held to be a waiver of any other or subsequent breach. All remedies provided in the Contract Documents shall be taken and construed as cumulative; in addition to each and every other remedy herein provided, the City shall have any and all equitable and legal remedies that it would in any case have.

14. WARRANTY

Except as otherwise expressly provided in the Contract Documents, and excepting only items of routine maintenance, ordinary wear and tear and unusual abuse or neglect by City, Contractor warrants and guarantees all Work executed and all supplies, materials and devices of whatsoever nature incorporated in or attached to the Work, or otherwise provided as a part of the Work pursuant to the Contract, to be absolutely free of all defects of workmanship and materials for a period of one year after final acceptance of the entire Work by the City.
Contractor shall repair or replace all work or material, together with any other work or material that may be displaced or damaged in so doing, that may prove defective in workmanship or material within this one year warranty period without expense or charge of any nature whatsoever to City.

In the event that Contractor shall fail to comply with the conditions of the foregoing warranty within ten (10) days after being notified of the defect in writing, City shall have the right, but shall not be obligated, to repair, or obtain the repair of, the defect and Contractor shall pay to City on demand all costs and expense of such repair. Notwithstanding anything herein to the contrary, in the event that any defect in workmanship or material covered by the foregoing warranty results in a condition that constitutes an immediate hazard to public health or safety, or any property interest, or any person, City shall have the right to immediately repair, or cause to be repaired, such defect, and Contractor shall pay to City on demand all costs and expense of such repair. The foregoing statement relating to hazards to health, safety or property shall be deemed to include both temporary and permanent repairs that may be required as determined in the sole discretion and judgment of City.

In addition to the above, the Contractor shall make a written assignment of all manufacturer's and other product warranties to the City, prior to completion and final acceptance of the Work by City.

The Contractor's Performance Bond shall secure the performance of the Contractor's obligations under this Section 14, and the Contractor and its Surety shall be jointly and severally liable for these obligations.

15. LIQUIDATED DAMAGES IF WORK NOT COMPLETED ON TIME

A. The actual fact of the occurrence of damages and the actual amount of the damages that City would suffer if the entire Work, and/or any specified portion thereof, were not completed within the time(s) specified herein are dependent upon many circumstances and conditions that could prevail in various combinations, and for this reason, it is impracticable and extremely difficult to fix the actual damages. Damages that City would suffer in the event of such delay include: loss of the use of the project; expenses of prolonged assignment to the project of an architectural and/or engineering staff; prolonged costs of administration, inspection, and supervision; increased operational expenses and/or impaired operation of other facilities dependent upon completion of the project; and the loss and inconvenience suffered by the public within the City of Sacramento by reason of the delay in the completion of the project or portion thereof. Accordingly, the parties agree, and by execution of this Agreement, Contractor acknowledges that it understands and agrees, that the amount(s) set forth herein as liquidated damages reflect the parties' best efforts at the time of entering into the Contract to estimate the damages that may be incurred by City and the public due to the Contractor's delay in completion of the Work and/or any specified portion thereof, and shall be presumed to be the amount of damages sustained by the failure of Contractor to complete the entire Work and/or any specified portion thereof within the time(s) specified herein.
B. Contractor shall pay liquidated damages to City for failure to complete the entire Work by the Completion Date (as extended in accordance with the Contract Documents, if applicable) in the amount of $4,400.00 for each working day after the Completion Date (as extended in accordance with the Contract Documents, if applicable), continuing to the time at which the entire Work is completed. Such amount is the actual cash value agreed upon by the City and Contractor as the loss to City and the public resulting from Contractor’s default.

The parties agree, and by execution of this Agreement, Contractor acknowledges that it understands and agrees, that the foregoing provisions provide for the imposition of liquidated damages from the Completion Date (as extended in accordance with the Contract Documents, if applicable) until the date of completion of the entire Work as determined by the Engineer in accordance with Section 8-4 of the Standard Specifications, whether or not the Work or any portion thereof is claimed or determined to be substantially complete prior to such date of completion.

C. In the event Contractor shall become liable for liquidated damages, City, in addition to all other remedies provided by law, shall have the right to withhold any and all payments that otherwise would be or become due Contractor until the liability of Contractor under this section is finally determined. City shall have the right to use and apply such payments, in whole or in part, to reimburse City for all liquidated damages due or to become due to City. Any remaining balance of such payments shall be paid to Contractor only after discharge in full of all liability incurred by Contractor under this section or otherwise under any provision of the Contract Documents or any applicable Law or Regulation. If the sum so retained by City is not sufficient to discharge all such liabilities of Contractor, Contractor shall continue to remain liable to City until all such liabilities are satisfied in full. No failure by City to withhold any payment as specified above shall in any manner be construed to constitute a release of any such liabilities nor a waiver of the City’s right to withhold payment for such liabilities.

16. INDEMNITY AND HOLD HARMLESS

A. Contractor shall defend, hold harmless and indemnify the City, its officers, employees, and agents, and each and every one of them, from and against any and all actions, damages, costs, liabilities, claims, demands, losses, judgments, penalties, costs and expenses of every type and description, whether arising on or off the site of the Work, including, but not limited to, any fees and/or costs reasonably incurred by City’s staff attorneys or outside attorneys and any fees and expenses incurred in enforcing this provision (hereafter collectively referred to as “Liabilities”), including but not limited to Liabilities arising from personal injury or death, damage to personal, real or intellectual property or the environment, contractual or other economic damages, or regulatory penalties, arising out of or in any way connected with performance of or failure to perform the Work by the Contractor, any subcontractor or agent, anyone directly or indirectly employed by
any of them or anyone for whose acts any of them may be liable, whether or not (i) such Liabilities are caused in part by a party indemnified hereunder, or (ii) such Liabilities are litigated, settled or reduced to judgment; provided that the foregoing indemnity does not apply to liability for damages for death or bodily injury to persons, injury to property, or other loss, damage or expense to the extent arising from (i) the sole negligence or willful misconduct of, or defects in design furnished by, City, its agents, servants, or independent contractors who are directly responsible to City, or (ii) the active negligence of City.

B. The existence or acceptance by City of any of the insurance policies or coverages described in this Agreement shall not affect or limit any of City’s rights under this Section 16, nor shall the limits of such insurance limit the liability of Contractor hereunder. The provisions of this Section 16 shall survive any expiration or termination of the Contract.

17. CONTRACTOR SHALL ASSUME RISKS

Until the completion and final acceptance by City of all Work under this Contract, the Work shall be under Contractor’s responsible care and charge, and Contractor, at no cost to City, shall rebuild, repair, restore and make good all injuries, damages, re-erections, and repairs occasioned or rendered necessary by accidental causes of any nature, to all or any portions of the Work.

18. GENERAL LIABILITY OF CONTRACTOR

Except as otherwise herein expressly stipulated, Contractor shall perform all the Work and furnish all the labor, materials, tools, equipment, apparatus, facilities, transportation, power and light, and appliances, necessary or proper for performing and completing the Work herein required in the manner and within the time herein specified. The mention of any specific duty or liability of Contractor shall not be construed as a limitation or restriction of any general liability or duty of Contractor, and any reference to any specific duty or liability shall be construed to be solely for the purpose of explanation.

19. INSURANCE

During the entire term of the Contract, Contractor shall maintain the insurance coverage described in this Section 19.

Full compensation for all premiums that Contractor is required to pay for the insurance coverage described herein shall be included in the compensation specified for the Work performed by Contractor under this Contract. No additional compensation will be provided for Contractor’s insurance premiums. Any available insurance proceeds in excess of the specified minimum limits and coverages shall be available to the City.

It is understood and agreed by the Contractor that its liability to the City shall not in any way be limited to or affected by the amount of insurance coverage required or carried by
the Contractor in connection with this Contract.

A. Minimum Scope & Limits of Insurance Coverage

(1) Commercial General Liability Insurance providing coverage at least as broad as ISO CGL Form 00 01 on an occurrence basis for bodily injury, including death, of one or more persons, property damage, and personal injury, arising out of activities performed by or on behalf of Contractor and its subcontractors, products and completed operations of Contractor and its subcontractors, and premises owned, leased, or used by Contractor and its subcontractors, with limits of not less than one million dollars ($1,000,000) per occurrence. The policy shall provide contractual liability and products and completed operations coverage for the term of the policy.

(2) Automobile Liability Insurance providing coverage at least as broad as ISO Form CA 00 01 for bodily injury, including death, of one or more persons, property damage, and personal injury, with limits of not less than one million dollars ($1,000,000) per accident. The policy shall provide coverage for owned, non-owned, and/or hired autos as appropriate to the operations of the Contractor.

No automobile liability insurance shall be required if Contractor completes the following certification:

"I certify that a motor vehicle will not be used in the performance of any work or services under this agreement." ________
(Contractor initials)

(3) Excess Insurance: The minimum limits of insurance required above may be satisfied by a combination of primary and umbrella or excess insurance coverage; provided that any umbrella or excess insurance shall contain, or be endorsed to contain, a provision that it shall apply on a primary basis for the benefit of the CITY, and any insurance or self-insurance maintained by CITY, its officials, employees, or volunteers shall be in excess of such umbrella or excess coverage and shall not contribute with it.

(4) Workers’ Compensation Insurance with statutory limits, and Employers’ Liability Insurance with limits of not less than one million dollars ($1,000,000). The Workers’ Compensation policy shall include a waiver of subrogation in favor of the City.
No Workers' Compensation insurance shall be required if Contractor completes the following certification:

"I certify that my business has no employees, and that I do not employ anyone. I am exempt from the legal requirements to provide Workers' Compensation insurance."

(Contractor initials)

B. Additional Insured Coverage

(1) Commercial General Liability Insurance: The City, its officials, employees, and volunteers shall be covered by policy terms or endorsement as additional insureds as respects general liability arising out of: activities performed by or on behalf of Contractor and its subcontractors; products and completed operations of Contractor and its subcontractors; and premises owned, leased, or used by Contractor and its subcontractors.

(2) Automobile Liability Insurance: The City, its officials, employees, and volunteers shall be covered by policy terms or endorsement as additional insureds as respects auto liability.

C. Other Insurance Provisions

The policies are to contain, or be endorsed to contain, the following provisions:

(1) Contractor's insurance coverage, including excess insurance, shall be primary insurance as respects City, its officials, employees, and volunteers. Any insurance or self-insurance maintained by City, its officials, employees, or volunteers shall be in excess of Contractor's insurance and shall not contribute with it.

(2) Any failure to comply with reporting provisions of the policies shall not affect coverage provided to City, its officials, employees, or volunteers.

(3) Coverage shall state that Contractor's insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability.

(4) City will be provided with thirty (30) days written notice of cancellation or material change in the policy language or terms.

D. Acceptability of Insurance

Insurance shall be placed with insurers with a Bests' rating of not less than A:VI. Self-insured retentions, policy terms or other variations that do not comply with
the requirements of this Section 3 must be declared to and approved by the City in writing prior to execution of this Contract.

E. Verification of Coverage

(1) Contractor shall furnish City with certificates and required endorsements evidencing the insurance required. Copies of policies shall be delivered to the City on demand. Certificates of insurance shall be signed by an authorized representative of the insurance carrier.

(2) For all insurance policy renewals during the term of this Contract, Contractor shall send insurance certificates reflecting the policy renewals directly to:

City of Sacramento
c/o EXIGIS LLC
P.O. Box 4668 ECM- #35050
New York, NY 10168-4668

Insurance certificates also may be faxed to (888) 355-3599, or e-mailed to: certificates-sacramento@riskworks.com

(3) The City may withdraw its offer of contract or cancel this Contract if the certificates of insurance and endorsements required have not been provided prior to execution of this Contract. The City may withhold payments to Contractor or cancel the Contract if the insurance is canceled or Contractor otherwise ceases to be insured as required herein.

F. Subcontractors

Contractor shall require and verify that all subcontractors maintain insurance coverage that meets the minimum scope and limits of insurance coverage specified in subsection A, above.

20. FAILURE TO MAINTAIN BONDS OR INSURANCE

If, at any time during the performance of this Contract, Contractor fails to maintain any item of the bonds and/or insurance required under the Contract in full force and effect, Contractor shall immediately suspend all work under the Contract and notify City in writing of such failure. After such notice is provided, or if City discovers such failure and notifies Contractor, the City thereafter may withhold all Contract payments due or that become due until notice is received by City that such bonds and/or insurance have been restored in full force and effect and that the premiums therefor have been paid for a period satisfactory to the Division of Risk Management. Contractor shall not resume work until notified by City to do so, and the City shall have no responsibility or liability for any costs incurred by Contractor as a result of such suspension of Work.
In addition to the foregoing, any failure to maintain any item of the required bonds and/or insurance at any time during the performance of this Contract will be sufficient cause for termination of the Contract by City.

The Contractor shall be solely responsible for, and shall defend, indemnify and hold harmless the City, its officers, employees and agents against and from, any and all damages, claims, losses, actions, costs or other expenses of any kind incurred by any party as a direct or indirect result of any suspension of Work or termination of the Contract under the provisions of this Section.

21. EXCUSABLE DELAYS

For the purpose of these Contract Documents, the term "Excusable Delay" shall mean, and is limited to, delay caused directly by: acts of God; acts of a public enemy; fires; inclement weather as determined by the Engineer; riots; insurrections; epidemics; quarantine restrictions; strikes; lockouts; sitdowns; acts of a governmental agency; priorities or privileges established for the manufacture, assemble, or allotment of materials necessary in the Work by order, decree or otherwise of the United States or by any department, bureau, commission, committee, agent, or administrator of any legally constituted public authority; changes in the Work ordered by City insofar as they necessarily require additional time in which to complete the Work; the prevention of Contractor from commencing or prosecuting the Work because of the acts of others, excepting Contractor's subcontractors or suppliers; or the prevention of Contractor from commencing or prosecuting the Work because of a Citywide failure of public utility service.

The term "Excusable Delay" shall specifically not include: (i) any delay that could have been avoided by the exercise of care, prudence, foresight and diligence on the part of Contractor; (ii) any delay in the prosecution of any part of the Work that does not constitute a Controlling Operation, whether or not such delay is unavoidable; (iii) any reasonable delay resulting from time required by City for review of any Contractor submittals and for the making of surveys, measurements and inspection; and, (iv) any delay arising from an interruption in the prosecution of the Work on account of reasonable interference by other Contractors employed by City that does not necessarily prevent the completion of the entire Work within the time specified. Excusable Delays, if any, shall operate only to extend the Completion Date (not in excess of the period of such delay as determined by City) and shall not under any circumstances increase the amount City is required to pay Contractor except as otherwise provided in these Contract Documents.

22. CONTRACTOR TO SERVE NOTICE OF DELAYS

Whenever Contractor foresees any delay in the prosecution of the Work, and in any event as soon as possible (not to exceed a period of ten (10) calendar days) after the initial occurrence of any delay that Contractor regards as or may later claim to be an Excusable Delay, the Contractor shall notify the Engineer in writing of such delay and its cause, in order that the Engineer: (i) may take immediate steps to prevent if possible the occurrence or continuance of the delay; or (ii) if this cannot be done, may determine whether the delay is to be
considered excusable, how long it continues, and to what extent the prosecution and completion of the Work are delayed thereby. Said written notice shall constitute an application for an extension of time only if the notice requests such an extension and sets forth the Contractor's estimate of the additional time required together with a full description of the cause of the delay relied upon.

After the completion of any part or whole of the Work, the Engineer, in estimating the amount due Contractor, will assume that any and all delays that may have occurred in its prosecution and completion were not Excusable Delays, except for such delays for which the Contractor has provided timely written notice as required herein, and that the Engineer has found to be excusable. Contractor shall not be entitled to claim Excusable Delay for any delay for which the Contractor failed to provide such timely written notice.

23. EXTENSION OF TIME

If the Contractor complies with Section 22, above, and the Engineer finds a delay claimed by the Contractor to be an Excusable Delay, the Contractor shall be allowed an extension of time to complete the Work that is proportional to the period of Excusable Delay determined by the Engineer, subject to the approval by City of a change order granting such time extension. During a duly authorized extension for an Excusable Delay, City shall not charge liquidated damages against the Contractor for such delay.

If the City extends the time to complete the Work as provided herein, such extension shall in no way release any warranty or guarantee given by Contractor pursuant to the provisions of the Contract Documents, nor shall such extension of time relieve or release the sureties of the Bonds provided pursuant to the Contract Documents. By executing such Bonds, the Sureties shall be deemed to have expressly agreed to any such extension of time. The granting of any extension of time as provided herein shall in no way operate as a waiver on the part of City of its rights under this Contract, excepting only extension of the Completion Date for such period of Excusable Delay as may be determined by the Engineer and approved by a duly authorized change order.

24. NO PAYMENT FOR DELAYS

No damages or compensation of any kind shall be paid to Contractor or any subcontractor because of delays in the progress of the Work whether or not such delays qualify for extension of time under this Agreement; except that this provision shall not preclude the recovery of damages for a delay caused by the City that is unreasonable under the circumstances and that is not within the contemplation of the parties, provided that the Contractor timely submits all such written notice(s) and fully complies with such other procedures as may be specified in the Contract Documents or any Laws or Regulations for Contractor to claim damages for such delay.

25. CHANGES IN THE WORK

Changes in the Work authorized or directed in accordance with the Contract Documents and extensions of time of completion made necessary by reason thereof shall not in any way
release any warranty or guarantee given by Contractor pursuant to the provisions of the Contract Documents, nor shall such changes in the Work relieve or release the Sureties on Bonds provided pursuant to the Contract Documents. By executing such Bonds, the Sureties shall be deemed to have expressly agreed to any such change in Work and to any extension of time made by reason thereof.

26. **TERMINATION AFTER COMPLETION DATE**

In addition to any other rights City may have, if any services or work required under the Contract (including but not limited to punch list items) are not completed as of the Completion Date (as adjusted by any extensions of time for Excusable Delays granted pursuant to the Contract Documents), City may terminate the Contract at any time after the Completion Date (as adjusted by any extensions of time for Excusable Delays granted pursuant to the Contract Documents), by providing a written notice to Contractor specifying the date of termination. Such notice also may specify conditions or requirements that Contractor must meet to avoid termination of the Contract on such date. If Contractor fails to fulfill all such conditions and requirements by such termination date, or, if no such conditions or requirements are specified, Contractor shall cease rendering services and performing work on such termination date, and shall not be entitled to receive any compensation for services rendered or work performed after such termination date. In the event of such termination, Contractor shall remain liable to City for liquidated damages incurred for any period of time prior to the termination date.

In addition to any other charges, withholdings or deductions authorized under the Contract or any Laws or Regulations, if City terminates the Contract pursuant to this section, City may withhold and deduct from any payment and/or retention funds otherwise due Contractor any sum necessary to pay the City's cost of completing or correcting, or contracting for the completion or correction of, any services or work under the Contract that are not completed to the satisfaction of the City or that otherwise are deficient or require correction as of such termination date, including but not limited to incomplete punch list items. Such costs shall include all of the City's direct and indirect costs incurred to complete or correct such services or work, including the City's administrative and overhead costs. If the amount of payment(s) and/or retention funds otherwise due the Contractor are insufficient to pay such costs, City shall have the right to recover the balance of such costs from the Contractor and/or its Surety(ies).

27. **TERMINATION FOR CONVENIENCE**

Upon written notice to the Contractor, the City may at any time, without cause and without prejudice to any other right or remedy of the City, elect to terminate the Contract for the convenience of City. In such case, the Contractor shall be paid (without duplication of any items, and after deduction and/or withholding of any amounts authorized to be deducted or withheld by the Contract Documents or any Laws or Regulations):

A. For Work executed in accordance with the Contract Documents prior to the effective date of termination and determined to be acceptable by the Engineer, including fair and reasonable sums for overhead and profit on such Work;
B. For reasonable claims, costs, losses, and damages incurred in settlement of terminated contracts with subcontractors, suppliers, and others; and

C. For reasonable expenses directly attributable to termination.

Contractor shall not be paid for any loss of anticipated profits or revenue for any Work not performed prior to termination, nor for any economic loss arising out of or resulting from such termination, except for the payments listed in this section. Contractor’s warranty under Section 14 of this Agreement shall apply, and Contractor shall remain responsible for all obligations related to such warranty, with respect to all portions of the Work performed prior to the effective date of the termination for convenience pursuant to this section. The City shall be entitled to have any or all remaining Work performed by other contractors or by any other means at any time after the effective date of a termination for convenience pursuant to this section.

28. TERMINATION FOR BREACH OF CONTRACT

If Contractor abandons the Work under this Contract, or if the Contract or any portion of the Contract is sublet or assigned without the consent of the City, or if the Engineer determines in the Engineer’s sole discretion that the conditions of the Contract in respect to the rate of progress of the Work are not being fulfilled or any part thereof is unnecessarily delayed, or if Contractor violates or breaches, or fails to execute in good faith, any of the terms or conditions of the Contract, or if Contractor refuses or fails to supply enough properly skilled labor or materials or refuses or fails to make prompt payment to subcontractors for material or labor, or if Contractor disregards any Laws or Regulations or proper instruction or orders of the Engineer, then, notwithstanding any provision to the contrary herein, the City may give Contractor and its Sureties written notification to immediately correct the situation or the Contract shall be terminated.

In the event that such notice is given, and, in the event such situation is not corrected, or arrangements for correction satisfactory to the City are not made, within ten (10) calendar days from the date of such notice or within such other period of time as may be specified by the City in the notice, the Contract shall upon the expiration of said period cease and terminate. In the event of any such termination, City may take over the Work and prosecute the Work to completion, or otherwise, and the Contractor and its Sureties shall be liable to City for any cost occasioned City thereby, as hereinafter set forth.

In the event City completes the Work, or causes the Work to be completed, no payment of any kind shall be made to Contractor until the Work is complete. The cost of completing the Work, including but not limited to, extra costs of project administration and management incurred by City, both direct or indirect, shall be deducted from any sum then due, or that becomes due, to Contractor from City. If sums due to Contractor from City are less than the cost of completing the Work, Contractor and its Sureties shall pay City a sum equal to this difference on demand. In the event City completes the Work, and there is a sum remaining due to Contractor after City deducts the costs of completing the Work, then City shall pay
such sum to Contractor. The Contractor and Contractor’s Sureties shall be jointly and severally liable for all obligations imposed on Contractor hereunder.

No act by City before the Work is finally accepted, including, but not limited to, exercise of other rights under the Contract, actions at law or in equity, extensions of time, payments, assessments of liquidated damages, occupation or acceptance of any part of the Work, waiver of any prior breach of the Contract or failure to take action pursuant to this section upon the happening of any prior default or breach of Contractor, shall be construed to be a waiver or estoppel of the City’s right to act pursuant to this Section upon any subsequent event, occurrence or failure by Contractor to fulfill the terms and conditions of the Contract. The rights of City to terminate the Contract pursuant to this Section and pursuant to Sections 26 and 27 are cumulative and are in addition to all other rights of City pursuant to the Contract and at law or in equity.

29. CONTRACTOR BANKRUPT

If Contractor should commence any bankruptcy proceeding, or if Contractor is adjudged a bankrupt, or if Contractor makes any assignment for the benefit of creditors, or if a receiver is appointed on account of Contractor’s Insolvency, then the City may, without prejudice to any other right or remedy, terminate the Contract and complete the work by giving notice as provided in Section 28 above.

30. SURETIES’ OBLIGATIONS UPON TERMINATION

If the City terminates the Contract pursuant to Section 28 or Section 29 above:

A. The Surety under Contractor’s performance bond shall be fully responsible for all of the Contractor’s remaining obligations of performance under the Contract as if the Surety were a party to the Contract, including without limitation Contractor’s obligations, as provided in the Contract Documents, to complete and provide a one-year warranty of the entire Work, pay liquidated damages and indemnify, defend and hold harmless City, up to the full amount of the performance bond.

B. The Surety under Contractor’s payment bond shall be fully responsible for the performance of all of the Contractor’s remaining payment obligations for work, services, equipment or materials performed or provided in connection with the Work or any portion thereof, up to the full amount of the payment bond.

31. ACCOUNTING RECORDS OF CONTRACTOR

During performance of the Contract and for a period of three (3) years after completing the entire Work, Contractor shall maintain all accounting and financial records related to the Contract and performance of the Work in accordance with generally accepted accounting practices, and shall keep and make such records available for inspection and audit by representatives of the City upon reasonable written notice.
32. USE TAX REQUIREMENTS

During the performance of this Agreement, CONTRACTOR, for itself, its assignees and successors in interest, agrees as follows:

A. Use Tax Direct Payment Permit: For all leases and purchases of materials, equipment, supplies, or other tangible personal property used to perform the Agreement and shipped from outside California, the Contractor and any subcontractors leasing or purchasing such materials, equipment, supplies or other tangible personal property shall obtain a Use Tax Direct Payment Permit from the California State Board of Equalization ("SBE") in accordance with the applicable SBE criteria and requirements.

B. Sellers Permit: For any construction contract and any construction subcontract in the amount of $5,000,000 or more, Contractor and the subcontractor(s) shall obtain sellers permits from the SBE and shall register the jobsite as the place of business for the purpose of allocating local sales and use tax to the City. Contractor and its subcontractors shall remit the self-accrued use tax to the SBE, and shall provide a copy of each remittance to the City.

C. The above provisions shall apply in all instances unless prohibited by the funding source for the Agreement.

33. NON-DISCRIMINATION IN EMPLOYEE BENEFITS

This Agreement may be subject to the requirements of Sacramento City Code Chapter 3.54, Non-Discrimination in Employee Benefits by City Contractors. The Contract Documents include a summary of the requirements of Sacramento City Code Chapter 3.54, entitled "Requirements of the Non-Discrimination in Employee Benefits Code." By signing this Agreement, Contractor acknowledges and represents that Contractor has read and understands these requirements and agrees to fully comply with all applicable requirements of Sacramento City Code Chapter 3.54. If requested by City, Contractor agrees to promptly provide such documents and information as may be required by City to verify Contractor’s compliance. Any violation by Contractor of Sacramento City Code Chapter 3.54 constitutes a material breach of this Agreement, for which the City may terminate the Agreement and pursue all available legal and equitable remedies.

34. CONSIDERING CRIMINAL CONVICTION INFORMATION IN THE EMPLOYMENT APPLICATION PROCESS

This Agreement may be subject to the requirements of Sacramento City Code Chapter 3.62, Procedures for Considering Criminal Conviction Information in the Employment Application Process. The Contract Documents include a summary of the requirements of Sacramento City Code Chapter 3.62, entitled "Ban-The-Box Requirements." By signing this Agreement, Contractor acknowledges and represents that Contractor has read and
understands these requirements and agrees to fully comply with all applicable requirements of Sacramento City Code Chapter 3.62. If requested by City, Contractor agrees to promptly provide such documents and information as may be required by City to verify Contractor's compliance. Any violation by Contractor of Sacramento City Code Chapter 3.62 constitutes a material breach of this Agreement, for which the City may terminate the Agreement and pursue all available legal and equitable remedies. Contractor agrees to require its subcontractors to fully comply with all applicable requirements of Sacramento City Code Chapter 3.62, and include these requirements in all subcontracts covered by Sacramento City Code Chapter 3.62.
IN WITNESS WHEREOF, the parties hereto have signed this Agreement on the date set for opposite their names.

DATE 3/27/2020

CONTRACTOR

Under penalty of perjury, I certify that the taxpayer identification number and all other information provided here are correct.

BY

Jason Stokes
Print Name
President
Title

BY

Derrek Stokes
Print Name
Vice President
Title

DIR Registration # 10000040165
Federal ID# 27-2524074
State ID#

City of Sacramento Business Operation Tax Certificate No. (City will not award contract until Certificate Number is obtained)

Type of Business Entity (check one):

___ Individual/Sole Proprietor
___ Partnership
___ Corporation
___ Limited Liability Company
___ Other (please specify: )

CITY OF SACRAMENTO
a municipal corporation

DATE

Original Approved As To Form:

Gerald C. Hicks
City Attorney

For: Howard Chan, City Manager
Attest:

City Clerk

Form approved by City Attorney 1-11-17
CITY OF SACRAMENTO
PERFORMANCE BOND
Department of PUBLIC WORKS
Page 1 of 1

WHEREAS, the City of Sacramento, State of California, hereinafter called City, has conditionally awarded to: All-American Construction, 2048 Paseo Road, Live Oak, CA 95953 as principal, hereinafter called Contractor, a contract for construction of:

Meadowview Road Complete Street Project
(PN: T15145500)

which contract is by reference incorporated herein and made a part hereof as if the Surety named below were a party to the contract, and is hereinafter referred to as the Contract; and

WHEREAS, under the terms of the Contract, Contractor is required to furnish a bond for the faithful performance of the Contract.

NOW, THEREFORE, we the Contractor and (here insert full name and address of Surety):
Everest Reinsurance Company P.O. Box 830, Liberty Corner, NJ 07938-0830

a corporation duly authorized and admitted to transact business and issue surety bonds in the State of California, hereinafter called Surety, are held and firmly bound unto the City, as obligee, in the sum of:
EIGHT MILLION FIFTY-TWO THOUSAND SEVEN HUNDRED ELEVEN DOLLARS ($8,052,711.00)
for the payment of which sum well and truly to be made, we, the Contractor and Surety bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally. The condition of this obligation is such that, if the Contractor, Contractor's heirs, executors, administrators, successors or assigns, shall in all things stand to and abide by, and well and truly keep and fully perform all covenants, conditions and agreements required to be kept and performed by Contractor in the Contract and any changes, additions or alterations made thereto, to be kept and performed at the time and in the manner therein specified, and in all respects according to their true intent and meanings, and shall indemnify and save harmless the City, its officers, employees and agents, as therein provided, then the Surety's obligations under the Contract and this bond shall be null and void; otherwise they shall be and remain in full force and effect. This obligation shall remain in full force and effect through the end of the Contract warranty period, which will expire one year after the completion of work date specified in the Notice of Completion filed for the above-named project.

As part of the obligations secured hereby and in addition to the sum specified above, there shall be included all costs, expenses and fees, including attorney's fees, reasonably incurred by City in successfully enforcing such obligations, all to be taxed as costs and included in any judgment rendered.

The Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the Contract or to the work to be performed thereunder or to the specifications accompanying the same shall in any way affect its obligations on this bond, and it does hereby waive notice of any such change, extension, alteration or addition.

IN WITNESS WHEREOF, this instrument has been duly executed by authorized representatives of the Contractor and Surety. SIGNED AND SEALED on March 25, 2020. Effective Date of Bonds: May 5, 2020

All-American Construction, Inc.
(Contractor) (Seal)

By Jason Stokes
Title President

Everest Reinsurance Company
(Surety) (Seal)

By Elizabeth Colodi, Attorney-in-Fact
Title

ORIGINAL APPROVED AS TO FORM:

Gerald C. Hicks
City Attorney

Form approved by CAO 7-1-12
ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California
County of Butte

On March 25, 2020 before me, Samantha Watkins, Notary Public
(insert name and title of the officer)

personally appeared Elizabeth Collodi
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature ____________________________ (Seal)
POWER OF ATTORNEY
EVEREST REINSURANCE COMPANY
DELWARE

KNOW ALL PERSONS BY THESE PRESENTS. That Everest Reinsurance Company, a corporation of the State of Delaware ("Company") having its principal office located at 471 Maritime Way, Liberty Corner, New Jersey 07938, do hereby nominate, constitute, and appoint:


its true and lawful Attorney(s)-in-fact to make, execute, attest, seal and deliver for and on its behalf, as surety, and as its act and deed, where required, any and all bonds and undertakings in the nature thereof, for the penal sum of no one of which is in any event to exceed UNLIMITED, reserving for itself the full power of substitution and revocation.

Such bonds and undertakings, when duly executed by the aforesaid Attorney(s)-in-fact shall be binding upon the Company as fully and to the same extent as if such bonds and undertakings were signed by the President and Secretary of the Company and sealed with its corporate seal.

This Power of Attorney is granted and is signed by facsimile under and by the authority of the following Resolutions adopted by the Board of Directors of Company ("Board") on the 28th day of July 2016:

RESOLVED, that the President, any Executive Vice President, and any Senior Vice President and Anthony Romano are hereby appointed by the Board as authorized to make, execute, attest, seal and deliver for and on behalf of the Company, any and all bonds, undertakings, contracts or obligations in surety or co-surety with others and that the Secretary or any Assistant Secretary of the Company be and that each of them hereby is authorized to attest to the execution of any such bonds, undertakings, contracts or obligations in surety or co-surety and attach thereto the corporate seal of the Company:

RESOLVED, FURTHER, that the President, any Executive Vice President, and any Senior Vice President and Anthony Romano are hereby authorized to execute powers of attorney authorizing the attorney named in the given power of attorney to execute, on behalf of the Company, bonds and undertakings in surety or co-surety with others, and that the Secretary or any Assistant Secretary of the Company be, and that each of them is hereby authorized to attest the execution of any such power of attorney, and to attach thereto the corporate seal of the Company:

RESOLVED, FURTHER, that the signature of such officers named in the preceding resolutions and the corporate seal of the Company may be affixed to such powers of attorney or to any certificate relating thereto by facsimile, and any such power of attorney or certificate bearing such facsimile signatures or facsimile seal shall be thereafter valid and binding upon the Company with respect to any bond, undertaking, contract or obligation in surety or co-surety with others to which it is attached.

IN WITNESS WHEREOF, Everest Reinsurance Company has caused their corporate seals to be affixed hereto, and these presents to be signed by their duly authorized officers this 28th day of July 2016.

Attest: Nicole Chase, Assistant Secretary

By: Anthony Romano, Vice President

On this 28th day of July 2016, before me personally came Anthony Romano, known to me, who, being duly sworn, did execute the above instrument, that he knows the seal of said Company; that the seal affixed to the aforesaid instrument is such corporate seal and was affixed thereto; and that he executed said instrument by like order.

LINDA ROBINS
Notary Public, State of New York
No 01R6239735
Qualified in Queens County
Term Expires April 25, 2023.

Linda Robins, Notary Public

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of said Company, at the Liberty Corner, this 25th day of March 2020.
CITY OF SACRAMENTO
PAYMENT BOND
Department of PUBLIC WORKS
Page 1 of 1

WHEREAS, the City of Sacramento, in the State of California, hereinafter called City, has conditionally awarded to: All-American Construction, 2048 Paseo Road, Live Oak, CA 95953 hereinafter called Contractor, a contract for construction of:

Meadowview Road Complete Street Project
(PN: T15145500)

Which contract is by reference incorporated herein and made a part hereof, and is hereinafter referred to as the Contract; and

WHEREAS, under the terms of the Contract and pursuant to Chapter 5 of Title 3 of Part 6 of Division 4 of the California Civil Code (commencing with Civil Code Section 9550), Contractor is required to furnish a good and sufficient payment bond to secure payment of the claims to which reference is made in Civil Code Section 9554.

NOW, THEREFORE, we the Contractor and (here insert full name and address of Surety):

Everest Reinsurance Company
P.O. Box 830, Liberty Corner, NJ 07938-0830

a corporation duly authorized and admitted to transact business and issue surety bonds in the State of California, hereinafter called Surety, are held and timely bound unto the City, and unto all persons or entities entitled to assert a claim against a payment bond under any of the aforesaid Civil Code provisions in the sum of EIGHT MILLION FIFTY TWO THOUSAND SEVEN HUNDRED ELEVEN DOLLARS ($8,052,711.00) on the condition that if Contractor shall fail to pay for any materials or equipment furnished or used in performance of the Contract, or for any work or labor thereon of any kind, or for amounts due under the Unemployment Insurance Act with respect to such work or labor, or for any amounts required to be deducted, withheld, and paid over to the Franchise Tax Board or the Employment Development Department from the wages of employees of the Contractor and all subcontractors with respect to such work or labor, then the Surety shall pay the same in an amount not exceeding the sum specified above. If suit is brought upon this bond, Surety shall pay, in addition to the above sum, all costs, expenses and fees, including attorney's fees, reasonably incurred by any party in successfully enforcing the obligation secured hereby, all to be taxed as costs and included in any judgment rendered. Should the condition of this bond be fully performed, then this obligation shall become null and void, otherwise it shall be and remain in full force and effect, and shall bind Contractor, Surety, their heirs, executors, administrators, successors and assigns, jointly and severally.

It is hereby stipulated and agreed that this bond shall inure to the benefit of all persons, companies, corporations, political subdivisions, State agencies and other entities entitled to assert a claim against a payment bond under any of the aforesaid Civil Code provisions, so as to give a right of action to them or their assigns in any suit brought upon this bond. The Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the Contract or to the work to be performed thereunder or to the specifications accompanying the same shall in any way affect its obligations on this bond, and it does hereby waive notice of any such change, extension, alteration or addition.

IN WITNESS WHEREOF, this instrument has been duly executed by authorized representatives of the Contractor and Surety. SIGNED AND SEALED on _______March 25th_____, 2020. Effective Date of Bond:

May 5, 2020

All-American Construction, Inc.

By ________________________________
(Contractor) (Seal)

[Signature]
Title President

Everest Reinsurance Company

By ________________________________
(Surety) (Seal)

[Signature]
Title Elizabeth Collodi, Attorney-in-Fact

ORIGINAL APPROVED AS TO FORM:

Gerald C. Hicks

City Attorney

Effective 7-1-12
ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California
County of Butte

On March 25, 2020 before me, Samantha Watkins, Notary Public (insert name and title of the officer)

personally appeared Elizabeth Collodi, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature (Seal)
POWER OF ATTORNEY
EVEREST REINSURANCE COMPANY
DELWARE

KNOW ALL PERSONS BY THESE PRESENTS. That Everest Reinsurance Company, a corporation of the State of Delaware ("Company") having its principal office situated at 477 Manhhattan Blvd, Liberty Corner, New Jersey 07939, do hereby nominate, constitute, and appoint:


its true and lawful Attorney(s)-in-fact to make, execute, attest, seal and deliver for and on its behalf, as surety, and as its act and deed, where required, any and all bonds and undertakings in the nature thereof, for the penal sum of no one of which is in any event to exceed UNLIMITED, reserving for itself the full power of substitution and revocation.

Such bonds and undertakings, when duly executed by the aforesaid Attorney(s)-in-fact shall be binding upon the Company as fully and to the same extent as if such bonds and undertakings were signed by the President and Secretary of the Company and sealed with its corporate seal.

This Power of Attorney is granted and is signed by facsimile under and by the authority of the following Resolutions adopted by the Board of Directors of Company ("Board") on the 28th day of July 2016:

RESOLVED, that the President, any Executive Vice President, and any Senior Vice President and Anthony Romano are hereby appointed by the Board as authorized to make, execute, seal and deliver for and on behalf of the Company, any and all bonds, undertakings, contracts or obligations in surety or co-surety with others and that the Secretary or any Assistant Secretary of the Company be and that each of them hereby is authorized to attest to the execution of such bonds, undertakings, contracts or obligations in surety or co-surety and attach thereto the corporate seal of the Company.

RESOLVED, FURTHER, that the President, any Executive Vice President, and any Senior Vice President and Anthony Romano are hereby authorized to execute powers of attorney qualifying the attorney named in the given power of attorney to execute, on behalf of the Company, bonds and undertakings in surety or co-surety with others, and that the Secretary or any Assistant Secretary of the Company be, and that each of them is hereby authorized to attest the execution of any such power of attorney, and to attach thereto the corporate seal of the Company.

RESOLVED, FURTHER, that the signature of such officers named in the preceding resolutions and the corporate seal of the Company may be affixed to such powers of attorney or to any certificate relating thereto by facsimile, and any such power of attorney or certificate bearing such facsimile signatures or facsimile seal shall be thereafter valid and binding upon the Company with respect to any bond, undertaking, contract or obligation in surety or co-surety with others to which it is attached.

IN WITNESS WHEREOF, Everest Reinsurance Company has caused their corporate seals to be affixed hereto, and these presents to be signed by their duly authorized officers this 28th day of July 2016.

[Seal]

Attest: Nicole Chase, Assistant Secretary

By: Anthony Romano, Vice President

On the 28th day of July 2016, before me personally came Anthony Romano, known to me, who, being duly sworn, did execute the above instrument; that he knows the seal of said Company; that the seal affixed to the aforesaid instrument is such corporate seal and was affixed thereto; and that he executed said instrument by like order.

LINDA ROBINS
Notary Public, State of New York
No 01R6239736
Qualified in Queens County
Term Expires April 26, 2023

Linda Robins, Notary Public

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of said Company, at the Liberty Corner, this 25th day of March 2020.
WORKER'S COMPENSATION CERTIFICATION

In accordance with Article 5 (commencing at Section 1860), Chapter 1, Part 7, Division 2 of the Labor Code, the below certificate must be signed and filed with the awarding body prior to performing any work under this contract. Labor Code Section 3700, inter alia, states the following:

"Every employer shall secure the payment of compensation in one or more of the following ways:

"(a) By being insured against liability to pay compensation in one or more insurers duly authorized to write compensation insurance in this State.

"(b) By securing from the Director of Industrial Relations a certificate of consent to self-insure, which may be given upon furnishing proof satisfactory to the Director of Industrial Relations of ability to self-insure and to pay any compensation that may become due to his employees.

To be signed by authorized corporate officer or partner or individual submitting the Proposal. If Bidder is: (example)

1. An individual using a firm name, sign: "John Doe, an individual doing business as Blank Company."
2. An individual doing business under his own name, Sign: your name only.
4. A corporation, sign: "Blank Company, by John Doe, Secretary." (or other title)

I am aware of the provisions of Section 3700 of the Labor Code which require every employer to be insured against liability for worker's compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the work of this contract.


By [Signature]

(Rev. 5-6-91)
# Certificate of Liability Insurance

**Date (MM/DD/YYYY):** 3/25/2020

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## Important Note

If the certificate holder is an **additional insured**, the policy must have **additional insured provisions** or be endorsed. If **subrogation** is **waived**, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder unless mentioned in the endorsement(s).

---

### Insured

- All-American Construction, Inc.
  - P.O. Box 835
  - Live Oak CA 95953

### Insurer(s) Affording Coverage

- Insurer A: West American Insurance Company
- Insurer B: RSUI Indemnity Company
- Insurer C: Navigators Specialty Insurance Company
- Insurer D: Travelers Property Casualty Company of America
- Insurer E: Insurance Company of the West

### Coverages

- **Certificate Number:** 13/3/2020/15
- **Revision Number:**

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<td>5/31/2020</td>
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<td>Leased/Rented/Borrowed Equipment</td>
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<td>5/31/2020</td>
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</tbody>
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### Description of Operations / Locations / Vehicles

- McDowelview Road Complete Et�� Project:
  - City of Sacramento, its employees, officers and agents are General Liability Additional Insured per terms and conditions of the attached endorsement(s).
  - Auto Liability Additional Insured applies per terms and conditions of the attached endorsement(s).

### Certificate Holder

City of Sacramento
Department of Transportation
Engineering Services Division
Attn: Jose R. Ledesma
914 I Street, Room 2000
Sacramento CA 95814

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### Cancellation

- **Should any of the above described policies be cancelled before the expiration date thereof, notice will be delivered in accordance with the policy provisions.**

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THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

ADDITIONAL INSURED – OWNERS, LESSEES OR CONTRACTORS – AUTOMATIC STATUS FOR OTHER PARTIES WHEN REQUIRED IN WRITTEN CONSTRUCTION AGREEMENT

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

A. Section II – Who Is An Insured is amended to include as an additional insured:
   1. Any person or organization for whom you are performing operations when you and such person or organization have agreed in writing in a contract or agreement that such person or organization be added as an additional insured on your policy; and
   2. Any other person or organization you are required to add as an additional insured under the contract or agreement described in Paragraph 1, above.

Such person(s) or organization(s) is an additional insured only with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" caused, in whole or in part, by:
   a. Your acts or omissions; or
   b. The acts or omissions of those acting on your behalf;

in the performance of your ongoing operations for the additional insured.

However, the insurance afforded to such additional insured described above:
   a. Only applies to the extent permitted by law; and
   b. Will not be broader than that which you are required by the contract or agreement to provide for such additional insured.

A person’s or organization's status as an additional insured under this endorsement ends when your operations for the person or organization described in Paragraph 1, above are completed.

B. With respect to the insurance afforded to these additional insureds, the following additional exclusions apply:

This insurance does not apply to:

1. "Bodily injury", "property damage" or "personal and advertising injury" arising out of the rendering of, or the failure to render, any professional architectural, engineering or surveying services, including:
   a. The preparing, approving, or failing to prepare or approve, maps, shop drawings, opinions, reports, surveys, field orders, change orders or drawings and specifications; or
   b. Supervisory, inspection, architectural or engineering activities.

This exclusion applies even if the claims against any insured allege negligence or other wrongdoing in the supervision, hiring, employment, training or monitoring of others by that insured, if the "occurrence" which caused the "bodily injury" or "property damage", or the offense which caused the "personal and advertising injury", involved the rendering of, or the failure to render, any professional architectural, engineering or surveying services.

2. "Bodily injury" or "property damage" occurring after:
   a. All work, including materials, parts or equipment furnished in connection with such work, on the project (other than service, maintenance or repairs) to be performed by or on behalf of the additional insured(s) at the location of the covered operations has been completed; or

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b. That portion of "your work" out of which the injury or damage arises has been put to its intended use by any person or organization other than another contractor or subcontractor engaged in performing operations for a principal as a part of the same project.

C. With respect to the insurance afforded to these additional insureds, the following is added to Section III – Limits Of Insurance:

The most we will pay on behalf of the additional insured is the amount of insurance:

1. Required by the contract or agreement described in Paragraph A.1.; or

2. Available under the applicable Limits of Insurance shown in the Declarations; whichever is less.

This endorsement shall not increase the applicable Limits of Insurance shown in the Declarations.
THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

BUSINESS AUTO COVERAGE ENHANCEMENT ENDORSEMENT

This endorsement modifies insurance provided under the following:

BUSINESS AUTO COVERAGE FORM

With respect to coverage afforded by this endorsement, the provisions of the policy apply unless modified by the endorsement.

COVERAGE INDEX

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<td>ACCIDENTAL AIRBAG DEPLOYMENT</td>
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<td>AMENDED DUTIES IN THE EVENT OF ACCIDENT, CLAIM, SUIT OR LOSS</td>
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<td>AMENDED FELLOW EMPLOYEE EXCLUSION</td>
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<td>AUDIO, VISUAL AND DATA ELECTRONIC EQUIPMENT COVERAGE</td>
<td>13</td>
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<td>1</td>
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<tr>
<td>BODILY INJURY REDEFINED</td>
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<td>EMPLOYEES AS INSUREDS (including employee hired auto)</td>
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<tr>
<td>PARKED AUTO COLLISION COVERAGE (WAIVER OF DEDUCTIBLE)</td>
<td>16</td>
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<tr>
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<td>11</td>
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<td>SUPPLEMENTARY PAYMENTS</td>
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<td>TWO OR MORE DEDUCTIBLES</td>
<td>18</td>
</tr>
<tr>
<td>UNINTENTIONAL FAILURE TO DISCLOSE HAZARDS</td>
<td>20</td>
</tr>
<tr>
<td>WAIVER OF TRANSFER RIGHTS OF RECOVERY AGAINST OTHERS TO US</td>
<td></td>
</tr>
</tbody>
</table>

SECTION II – LIABILITY COVERAGE is amended as follows:

1. BROAD FORM INSURED

   SECTION II – LIABILITY COVERAGE, paragraph A.1. – WHO IS AN INSURED is amended to include the following as an insured:

   d. Any legally incorporated entity of which you own more than 50 percent of the voting stock during the policy period. However, "insured" does not include any organization that:

   (1) is a partnership or joint venture; or

   (2) is an insured under any other automobile policy; or

   (3) has exhausted its Limit of Insurance under any other automobile policy.

   Paragraph d. (2) of this provision does not apply to a policy written to apply specifically in excess of this policy.

   e. Any organization you newly acquire or form, other than a partnership or joint venture, of which you own more than 50 percent of the voting stock. This automatic coverage is afforded only for 180 days from the date of acquisition or formation. However, coverage under this provision does not apply:

   (1) if there is similar insurance or a self-insured retention plan available to that organization;
(2) If the Limits of Insurance of any other insurance policy have been exhausted; or
(3) To "bodily injury" or "property damage" that occurred before you acquired or formed the organization.

2. EMPLOYEES AS INSURED

SECTION II – LIABILITY COVERAGE, paragraph A.1. —WHO IS AN INSURED is amended to include the following as an insured:

f. Any "employee" of yours while using a covered "auto" you do not own, hire or borrow, but only for acts within the scope of their employment by you. Insurance provided by this endorsement is excess over any other insurance available to any "employee".

g. An "employee" of yours while operating an "auto" hired or borrowed under a written contract or agreement in that "employee's" name, with your permission, while performing duties related to the conduct of your business and within the scope of their employment. Insurance provided by this endorsement is excess over any other insurance available to the "employee".

3. ADDITIONAL INSURED BY CONTRACT, AGREEMENT OR PERMIT

SECTION II – LIABILITY COVERAGE, paragraph A.1. —WHO IS AN INSURED is amended to include the following as an insured:

h. Any person or organization with respect to the operation, maintenance or use of a covered "auto", provided that you and such person or organization have agreed in a written contract, agreement, or permit issued to you by governmental or public authority, to add such person, or organization, or governmental or public authority to this policy as an "insured".

However, such person or organization is an "insured":

(1) Only with respect to the operation, maintenance or use of a covered "auto";
(2) Only for "bodily injury" or "property damage" caused by an "accident" which takes place after you executed the written contract or agreement, or the permit has been issued to you; and
(3) Only for the duration of that contract, agreement or permit.

4. SUPPLEMENTARY PAYMENTS

SECTION II – LIABILITY COVERAGE, Coverage Extensions, 2.a. Supplementary Payments, paragraphs (2) and (4) are replaced by the following:

(2) Up to $3,000 for cost of bail bonds (including bonds for related traffic violations) required because of an "accident" we cover. We do not have to furnish these bonds.
(4) All reasonable expenses incurred by the insured at our request, including actual loss of earnings up to $500 a day because of time off from work.

5. AMENDED FELLOW EMPLOYEE EXCLUSION

In those jurisdictions where, by law, fellow employees are not entitled to the protection afforded to the employer by the workers compensation exclusivity rule, or similar protection, the following provision is added:

SECTION II – LIABILITY, exclusion B.5. FELLOW EMPLOYEE does not apply if the "bodily injury" results from the use of a covered "auto" you own or hire.

SECTION III – PHYSICAL DAMAGE COVERAGE is amended as follows:

6. HIRED AUTO PHYSICAL DAMAGE

Paragraph A.4. Coverage Extensions of SECTION III – PHYSICAL DAMAGE COVERAGE, is amended by adding the following:

If hired "autos" are covered "autos" for Liability Coverage, and if Comprehensive, Specified Causes of Loss or Collision coverage are provided under the Business Auto Coverage Form for any "auto" you own, then the Physical Damage coverages provided are extended to "autos":

a. You hire, rent or borrow; or
b. Your "employee" hires or rents under a written contract or agreement in that "employee's" name, but only if the damage occurs while the vehicle is being used in the conduct of your business, subject to the following limit and deductible:

A. The most we will pay for "loss" in any one "accident" or "loss" is the smallest of:
   
   (1) $50,000; or
   
   (2) The actual cash value of the damaged or stolen property as of the time of the "loss", or
   
   (3) The cost of repairing or replacing the damaged or stolen property with other property of like kind and quality, minus a deductible.

B. The deductible will be equal to the largest deductible applicable to any owned "auto" for that coverage.

C. Subject to the limit, deductible and excess provisions described in this provision, we will provide coverage equal to the broadest coverage applicable to any covered "auto" you own.

D. Subject to a maximum of $1,000 per "accident", we will also cover the actual loss of use of the hired "auto" if it results from an "accident", you are legally liable and the lessor incurs an actual financial loss.

E. This coverage extension does not apply to:
   
   (1) Any "auto" that is hired, rented or borrowed with a driver; or
   
   (2) Any "auto" that is hired, rented or borrowed from your "employee".

For the purposes of this provision, SECTION V - DEFINITIONS is amended by adding the following:

"Total loss" means a "loss" in which the cost of repairs plus the salvage value exceeds the actual cash value.

7. TOWING AND LABOR

SECTION III – PHYSICAL DAMAGE COVERAGE, paragraph A.2. Towing, is amended by the addition of the following:

We will pay towing and labor costs incurred, up to the limits shown below, each time a covered "auto" classified and rated as a private passenger type, "light truck" or "medium truck" is disabled:

a. For private passenger type vehicles, we will pay up to $50 per disablement.

b. For "light trucks", we will pay up to $50 per disablement. "Light trucks" are trucks that have a gross vehicle weight (GVW) of 10,000 pounds or less.

c. For "medium trucks", we will pay up to $150 per disablement. "Medium trucks" are trucks that have a gross vehicle weight (GVW) of 10,001 – 20,000 pounds.

However, the labor must be performed at the place of disablement.

8. PHYSICAL DAMAGE - ADDITIONAL TRANSPORTATION EXPENSE COVERAGE

Paragraph A.4.a., Coverage Extension of SECTION III – PHYSICAL DAMAGE COVERAGE, is amended to provide a limit of $50 per day and a maximum limit of $1,500.
9. **RENTAL REIMBURSEMENT**

SECTION III – PHYSICAL DAMAGE COVERAGE, A. COVERAGE, is amended by adding the following:

a. We will pay up to $75 per day for rental reimbursement expenses incurred by you for the rental of an "auto" because of "accident" or "loss", to an "auto" for which we also pay a "loss" under Comprehensive, Specified Causes of Loss or Collision Coverages. We will pay only for those expenses incurred after the first 24 hours following the "accident" or "loss" to the covered "auto."

b. Rental Reimbursement will be based on the rental of a comparable vehicle, which in many cases may be substantially less than $75 per day, and will only be allowed for the period of time it should take to repair or replace the vehicle with reasonable speed and similar quality, up to a maximum of 30 days.

c. We will also pay up to $500 for reasonable and necessary expenses incurred by you to remove and replace your tools and equipment from the covered "auto."

d. This coverage does not apply unless you have a business necessity that other "autos" available for your use and operation cannot fill.

e. If "loss" results from the total theft of a covered "auto" of the private passenger type, we will pay under this coverage only that amount of your rental reimbursement expenses which is not already provided under Paragraph 4, Coverage Extension.

f. No deductible applies to this coverage.

For the purposes of this endorsement provision, materials and equipment do not include "personal effects" as defined in provision 11.

10. **EXTRA EXPENSE - BROADENED COVERAGE**

Under SECTION III – PHYSICAL DAMAGE COVERAGE, A. COVERAGE, we will pay for the expense of returning a stolen covered "auto" to you. The maximum amount we will pay is $1,000.

11. **PERSONAL EFFECTS COVERAGE**

A. SECTION III – PHYSICAL DAMAGE COVERAGE, A. COVERAGE, is amended by adding the following:

If you have purchased Comprehensive Coverage on this policy for an "auto" you own and that "auto" is stolen, we will pay, without application of a deductible, up to $600 for "personal effects" stolen with the "auto."

The insurance provided under this provision is excess over any other collectible insurance.

B. SECTION V – DEFINITIONS is amended by adding the following:

For the purposes of this provision, "personal effects" mean tangible property that is worn or carried by an insured." "Personal effects" does not include tools, equipment, jewelry, money or securities.

12. **ACCIDENTAL AIRBAG DEPLOYMENT**

SECTION III – PHYSICAL DAMAGE COVERAGE, B. EXCLUSIONS is amended by adding the following:

If you have purchased Comprehensive or Collision Coverage under this policy, the exclusion for "loss" relating to mechanical breakdown does not apply to the accidental discharge of an airbag.

Any insurance we provide shall be excess over any other collectible insurance or reimbursement by manufacturer's warranty. However, we agree to pay any deductible applicable to the other coverage or warranty.

13. **AUDIO, VISUAL AND DATA ELECTRONIC EQUIPMENT COVERAGE**

SECTION III – PHYSICAL DAMAGE COVERAGE, B. EXCLUSIONS, exception paragraph a. to exclusions 4.c. and 4.d. is deleted and replaced with the following:
Exclusion 4.c. and 4.d. do not apply to:

a. Electronic equipment that receives or transmits audio, visual or data signals, whether or not designed solely for the reproduction of sound, if the equipment is permanently installed in the covered "auto" at the time of the "loss" and such equipment is designed to be solely operated by use of the power from the "auto"s" electrical system, in or upon the covered "auto" and physical damage coverages are provided for the covered "auto"; or

If the "loss" occurs solely to audio, visual or data electronic equipment or accessories used with this equipment, then our obligation to pay for, repair, return or replace damaged or stolen property will be reduced by a $100 deductible.

14. LOAN / LEASE GAP COVERAGE

A. Paragraph C., LIMIT OF INSURANCE of SECTION III – PHYSICAL DAMAGE COVERAGE is amended by adding the following:

The most we will pay for a "total loss" to a covered "auto" owned by or leased to you in any one "accident" is the greater of:

1. Balance due under the terms of the loan or lease to which the damaged covered "auto" is subject at the time of the "loss" less the amount of:
   a. Overdue payments and financial penalties associated with those payments as of the date of the "loss",
   b. Financial penalties imposed under a lease due to high mileage, excessive use or abnormal wear and tear,
   c. Costs for extended warranties, Credit Life Insurance, Health, Accident or Disability insurance purchased with the loan or lease,
   d. Transfer or rollover balances from previous loans or leases,
   e. Final payment due under a "Balloon Loan",
   f. The dollar amount of any unrepaired damage which occurred prior to the "total loss" of a covered "auto",
   g. Security deposits not refunded by a lessor,
   h. All refunds payable or paid to you as a result of the early termination of a lease agreement or as a result of the early termination of any warranty or extended service agreement on a covered "auto",
   i. Any amount representing taxes,
   j. Loan or lease termination fees; or

2. The actual cash value of the damage or stolen property as of the time of the "loss".

An adjustment for depreciation and physical condition will be made in determining the actual cash value at the time of the "loss". This adjustment is not applicable in Texas.

B. ADDITIONAL CONDITIONS

This coverage applies only to the original loan for which the covered "auto" that incurred the loss serves as collateral, or lease written on the covered "auto" that incurred the loss.

C. SECTION V – DEFINITIONS is changed by adding the following:

As used in this endorsement provision, the following definitions apply:

"Total loss" means a "loss" in which the cost of repairs plus the salvage value exceeds the actual cash value.

A "balloon loan" is one with periodic payments that are insufficient to repay the balance over the term of the loan, thereby requiring a large final payment.
15. **GLASS REPAIR - WAIVER OF DEDUCTIBLE**

Paragraph D. Deductible of SECTION III - PHYSICAL DAMAGE COVERAGE is amended by the addition of the following:

No deductible applies to glass damage if the glass is repaired rather than replaced.

16. **PARKED AUTO COLLISION COVERAGE (WAIVER OF DEDUCTIBLE)**

Paragraph D. Deductible of SECTION III - PHYSICAL DAMAGE COVERAGE is amended by the addition of the following:

The deductible does not apply to "loss" caused by collision to such covered "auto" of the private passenger type or light weight truck with a gross vehicle weight of 10,000 lbs. or less as defined by the manufacturer as maximum loaded weight the "auto" is designed to carry while it is:

a. In the charge of an "insured";
b. Legally parked; and
c. Unoccupied.

The "loss" must be reported to the police authorities within 24 hours of known damage.

The total amount of the damage to the covered "auto" must exceed the deductible shown in the Declarations.

This provision does not apply to any "loss" if the covered "auto" is in the charge of any person or organization engaged in the automobile business.

17. **TWO OR MORE DEDUCTIBLES**

Under SECTION III PHYSICAL DAMAGE COVERAGE, if two or more company policies or coverage forms apply to the same accident, the following applies to paragraph D. Deductible:

a. If the applicable Business Auto deductible is the smaller (or smallest) deductible it will be waived; or

b. If the applicable Business Auto deductible is not the smaller (or smallest) deductible it will be reduced by the amount of the smaller (or smallest) deductible; or

c. If the loss involves two or more Business Auto coverage forms or policies the smaller (or smallest) deductible will be waived.

For the purpose of this endorsement company means any company that is part of the Liberty Mutual Group.

**SECTION IV - BUSINESS AUTO CONDITIONS is amended as follows:**

18. **UNINTENTIONAL FAILURE TO DISCLOSE HAZARDS**

SECTION IV- BUSINESS AUTO CONDITIONS, Paragraph B.2, is amended by adding the following:

If you unintentionally fail to disclose any hazards, exposures or material facts existing as of the inception date or renewal date of the Business Auto Coverage Form, the coverage afforded by this policy will not be prejudiced.

However, you must report the undisclosed hazard of exposure as soon as practicable after its discovery, and we have the right to collect additional premium for any such hazard or exposure.

19. **AMENDED DUTIES IN THE EVENT OF ACCIDENT, CLAIM, SUIT, OR LOSS**

SECTION IV - BUSINESS AUTO CONDITIONS, paragraph A.2.a. is replaced in its entirety by the following:

a. In the event of "accident", claim, "suit" or "loss", you must promptly notify us when it is known to:

1. You, if you are an individual;
2. A partner, if you are a partnership;
3. Member, if you are a limited liability company;
4. An executive officer or the "employee" designated by the Named Insured to give such notice, if you are a corporation.
To the extent possible, notice to us should include:

(1) How, when and where the “accident” or “loss” took place;

(2) The “insured’s” name and address; and

(3) The names and addresses of any injured persons and witnesses.

20. WAIVER OF TRANSFER OF RIGHTS OF RECOVERY AGAINST OTHERS TO US

SECTION IV – BUSINESS AUTO CONDITIONS, paragraph A.5., Transfer of Rights of Recovery Against Others to Us, is amended by the addition of the following:

If the person or organization has waived those rights before an “accident” or “loss”, our rights are waived also.

21. HIRED AUTO COVERAGE TERRITORY

SECTION IV – BUSINESS AUTO CONDITIONS, paragraph B.7., Policy Period, Coverage Territory, is amended by the addition of the following:

f. For “autos” hired 30 days or less, the coverage territory is anywhere in the world, provided that the insured’s responsibility to pay for damages is determined in a “suit”, on the merits, in the United States, the territories and possessions of the United States of America, Puerto Rico or Canada or in a settlement we agree to.

This extension of coverage does not apply to an “auto” hired, leased, rented or borrowed with a driver.

SECTION V DEFINITIONS is amended as follows:

22. BODILY INJURY REDEFINED

Under SECTION V – DEFINITIONS, definition C. is replaced by the following:

"Bodily injury" means physical injury, sickness or disease sustained by a person, including mental anguish, mental injury, shock, fright or death resulting from any of these at any time.

COMMON POLICY CONDITIONS

23. EXTENDED CANCELLATION CONDITION

COMMON POLICY CONDITIONS, paragraph A. – CANCELLATION condition applies except as follows:

If we cancel for any reason other than nonpayment of premium, we will mail to the first Named Insured written notice of cancellation at least 60 days before the effective date of cancellation. This provision does not apply in those states which require more than 60 days prior notice of cancellation.
THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

ADDITIONAL INSURED – OWNERS, LESSEES OR CONTRACTORS – COMPLETED OPERATIONS

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

<table>
<thead>
<tr>
<th>Schedule</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name Of Additional Insured Person(s) Or Organization(s):</td>
</tr>
<tr>
<td>Any person or organization to whom the Named Insured has agreed by a written contract that such person or organization be added as an Additional Insured for Completed Operations Coverage, but only as respects &quot;Commercial Construction&quot;, and only as respects occurrences subsequent to the making of such written contract.</td>
</tr>
<tr>
<td>Location And Description Of Completed Operations</td>
</tr>
<tr>
<td>Where specified by written contract, but only as respects “Commercial Construction”.</td>
</tr>
<tr>
<td>As used in this endorsement, &quot;Commercial Construction&quot; means construction other than 1) new home construction and 2) condominium or townhouse related work other than remodel of a single unit.</td>
</tr>
</tbody>
</table>

Information required to complete this Schedule, if not shown above, will be shown in the Declarations.

Section II - Who Is An Insured is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for "bodily injury" or "property damage" caused, in whole or in part, by "your work" at the location designated and described in the schedule of this endorsement performed for that additional insured and included in the "products-completed operations hazard".
WAIVER OF OUR RIGHT TO RECOVER FROM OTHERS ENDORSEMENT - BLANKET

We have the right to recover our payments from anyone liable for an injury covered by this policy. We will not enforce our right against the person or organization named in the Schedule. (This agreement applies only to the extent that you perform work under a written contract that requires you to obtain this agreement from us).

The additional premium for this endorsement shall be 3% of the total California Workers' Compensation premium otherwise due.

Schedule

Person or Organization

ANY PERSON / ORG
WHEN REQUIRED BY
WRITTEN CONTRACT

Job Description

ALL CA OPERATIONS

This endorsement changes the policy to which it is attached and is effective on the date issued unless otherwise stated. (The information below is required only when this endorsement is issued subsequent to preparation of the policy.)

Endorsement Effective 07/21/2019 Policy No. WSA5049655 00 Endorsement No.

Insured All-American Construction, Inc.

Insurance Company INSURANCE COMPANY OF THE WEST

Countersigned By ________________________________

WC 99 06 34 (Ed. 8-00)

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EXHIBIT 15-G CONSTRUCTION CONTRACT DBE COMMITMENT

1. Local Agency: City of Sacramento
2. Contract DBE Goal: 18%
3. Project Description: Meadowview Road Complete Street Project
4. Project Location: Sacramento
5. Bidder's Name: American Contracting Inc.
6. Prime Certified DBE: ☐
7. Bid Amount: 8,052,711.00
8. Total Dollar Amount for ALL Subcontractors: 3,705,711.00
9. Total Number of ALL Subcontractors: 10

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<th>DBE Contact Information (Must be certified on the date bids are opened)</th>
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<tr>
<td>82</td>
<td>AC Grinding</td>
<td>C1-005270</td>
<td>ASSL Construction 916-379-0449</td>
<td>11,000</td>
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<tr>
<td>1,15,20</td>
<td>Underground</td>
<td>48695</td>
<td>MSD Engineering 916-697-2994</td>
<td>849,493.00</td>
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<tr>
<td>2,19,45,48</td>
<td>Fencing Gates</td>
<td>014717</td>
<td>Franco Medina, General Eng. 580-870-7390</td>
<td>80,530.00</td>
</tr>
</tbody>
</table>

Local Agency to Complete this Section upon Execution of Award

15. TOTAL CLAIMED DBE PARTICIPATION $3,099,020.00

IMPORTANT: Identify all DBE firms being claimed for credit, regardless of tier. Names of the First Tier DBE Subcontractors and their respective item(s) of work listed above must be consistent, where applicable with the names and items of the work in the "Subcontractor List" submitted with your bid. Written confirmation of each listed DBE is required.

DISTRIBUTION: 1. Original – Local Agency
2. Copy – Caltrans District Local Assistance Engineer (DLAE). Failure to submit to DLAE within 30 days of contract execution may result in de-obiligation of federal funds on contract.
3. Include additional copy with award package.
Request for Taxpayer Identification Number and Certification

1. Name (as shown on your income tax return). Name is required on this line; do not leave this line blank.
   All-American Construction, Inc.

2. Business name/disregarded entity name, if different from above.

3. Check appropriate box for federal tax classification of the person whose name is entered on line 1. Check only one of the following seven boxes.
   - Individual/sole proprietor or single-member LLC
   - C Corporation
   - S Corporation
   - Partnership
   - Trust/estate
   - Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=Partnership).
   - Note: Check the appropriate box in the line above for the tax classification of the single-member owner. Do not check LLC if the LLC is classified as a single-member LLC that is disregarded from the owner unless the owner of the LLC is another LLC that is not disregarded from the owner for U.S. federal tax purposes. Otherwise, a single-member LLC that is disregarded from the owner should check the appropriate box for the tax classification of its owner.
   - Exempt payee code (if any).
   - Exemption from FATCA reporting code (if any).

4. Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3).

5. Address (number, street, and apt. or suite no.). See instructions.
   P.O. BOX 635
   LIVE OAK, CA 95953

6. City, state, and ZIP code

7. List account number(s) here (optional).
   Requester's name and address (optional).

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the instructions for Part I, later. For other entities, it is your employer identification number (EIN). If you do not have a number, see how to get a TIN later.

Note: If the account is in more than one name, see the instructions for line 1. Also see What Name and Number To Give the Requestor for guidelines on whose number to enter.

Social security number

Employer identification number

27 - 2524676

Part II Certification

Under penalties of perjury, I certify that:

1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
2. I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
3. I am a U.S. citizen or other U.S. person (defined below); and
4. The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest or dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions for Part II, later.

Sign Here

Signature of U.S. person

Date 3/25/2020

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. For the latest information about developments related to Form W-9 and its instructions, such as legislation enacted after they were published, go to www.irs.gov/FormW9.

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following.

- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)
- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
- Form 1099-C (canceled debt)
- Form 1099-A (acquisition or abandonment of secured property)

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN. If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See What is backup withholding, later.
TAXABLE YEAR

2020 Withholding Exemption Certificate

The payee completes this form and submits it to the withholding agent. The withholding agent keeps this form with their records.

Withholding Agent Information

Name

Payee Information

Name
All-American Construction, Inc.

Address (apt./state, room, PO box, or PMB no.)
P.O. Box 485

City (If you have a foreign address, see instructions.)
Liver Oak

State
CA

ZIP code
95953

Exemption Reason

Check only one box.

☐ Individuals — Certification of Residency:
I am a resident of California and I reside at the address shown above. If I become a nonresident at any time, I will promptly notify the withholding agent. See instructions for General Information D, Definitions.

☑ Corporations:
The corporation has a permanent place of business in California at the address shown above or is qualified through the California Secretary of State (SOS) to do business in California. The corporation will file a California tax return. If this corporation ceases to have a permanent place of business in California or ceases to do any of the above, I will promptly notify the withholding agent. See instructions for General Information D, Definitions.

☐ Partnerships or Limited Liability Companies (LLCs):
The partnership or LLC has a permanent place of business in California at the address shown above or is registered with the California SOS, and is subject to the laws of California. The partnership or LLC will file a California tax return. If the partnership or LLC ceases to do any of the above, I will promptly inform the withholding agent. For withholding purposes, a limited liability partnership (LLP) is treated like any other partnership.

☐ Tax-Exempt Entities:
The entity is exempt from tax under California Revenue and Taxation Code (R&TC) Section 23701 ______ (insert letter) or Internal Revenue Code Section 501(c) ______ (insert number). If this entity ceases to be exempt from tax, I will promptly notify the withholding agent. Individuals cannot be tax-exempt entities.

☐ Insurance Companies, Individual Retirement Arrangements (IRAs), or Qualified Pension/Profit-Sharing Plans:
The entity is an insurance company, IRA, or a federally qualified pension or profit-sharing plan.

☐ California Trusts:
At least one trustee and one noncontingent beneficiary of the above-named trust is a California resident. The trust will file a California fiduciary tax return. If the trustee or noncontingent beneficiary becomes a nonresident at any time, I will promptly notify the withholding agent.

☐ Estates — Certification of Residency of Deceased Person:
I am the executor of the above-named person's estate or trust. The decedent was a California resident at the time of death. The estate will file a California fiduciary tax return.

☐ Nonmilitary Spouse of a Military Servicemember:
I am a nonmilitary spouse of a military servicemember and I meet the Military Spouse Residency Relief Act (MSRRA) requirements. See instructions for General Information E, MCHRRA.

CERTIFICATE OF PAYEE: Payee must complete and sign below.

To learn about your privacy rights, how we may use your information, and the consequences for not providing the requested information, go to ftb.ca.gov/forms and search for 1131. To request this notice by mail, call 800.852.5711.

Under penalties of perjury, I declare that I have examined the information on this form, including accompanying schedules and statements, and to the best of my knowledge and belief, it is true, correct, and complete. I further declare under penalties of perjury that if the facts upon which this form are based change, I will promptly notify the withholding agent.

Type or print payee's name and title: Derrek Stikele Vice President

Telephone: 530-417-5111

Payee's signature: Date: 3/27/2020
WORKER'S COMPENSATION CERTIFICATION

In accordance with Article 5 (commencing at Section 1860), Chapter 1, Part 7, Division 2 of the Labor Code, the below certificate must be signed and filed with the awarding body prior to performing any work under this contract. Labor Code Section 3700, inter alia, states the following:

"Every employer shall secure the payment of compensation in one or more of the following ways:

(a) By being insured against liability to pay compensation in one or more insurers duly authorized to write compensation insurance in this State.

(b) By securing from the Director of Industrial Relations a certificate of consent to self-insure, which may be given upon furnishing proof satisfactory to the Director of Industrial Relations of ability to self-insure and to pay any compensation that may become due to his employees.

To be signed by authorized corporate officer or partner or individual submitting the Proposal. If Bidder is: (example)

1. An individual using a firm name, sign: "John Doe, an individual doing business as Blank Company."
2. An individual doing business under his own name, Sign: your name only.
4. A corporation, sign: "Blank Company, by John Doe, Secretary." (or other title)

I am aware of the provisions of Section 3700 of the Labor Code which require every employer to be insured against liability for worker’s compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the work of this contract.

DATE: 3/27/2020

Contractor: All-American Construction, Inc.

By:

Signature
This Waste Management Plan (WMP) must be submitted and approved before work can begin. Only one WMP is required for each public construction project. The administration fee and, if applicable, a security deposit must be submitted with this form to be approved. Administration fee is 0.04% of project bid amount (min $40, max $800); security deposit, if applicable, is 1% of bid amount (max $10,000). The accompanying Waste Log must be submitted within 30 days of the project completion report, or a penalty may be imposed.

A. Building Project Information:

Job Address: ____________________________
Contractor: ____________________________
Address: _______________________________

Engineering Estimate: ____________________
Phone: _________________________________
Email: _________________________________

B. Briefly describe the project:

___________________________________________________________________________
___________________________________________________________________________
___________________________________________________________________________
___________________________________________________________________________

C. Materials Required to be Recycled

50% of all debris must be recycled if generated during the course of your project. You can either source-separate them, which may be hauled by anyone, or mix them in one container and send the mixed C&D debris load to a **Certified Mixed C&D Sorting Facility**. Mixed C&D loads can only be hauled by a franchised hauler or self-hauled. Please see the Definitions section, on the next page, for more information.

D. Material Management

1. How will C&D debris will be stored on the project site: _____ Mixed C&D _____ Source-Separated
2. Company to haul away debris: _______________________________________________
3. Facilities to receive debris: _________________________________________________
E. Definitions.
Please read and understand these terms. Call Solid Waste at (916) 808-4833 if these terms are not clear to you. More information is also available online at http://www.cityofsacramento.org/utilities/.

1. **Self-haul or self-hauling**: This is when the general contractor or a subcontractor who is doing work on the project hauls their own waste materials for recycling or disposal. Note that a **jobsite cleanup crew is not doing other work on the project and is not self-hauling**. Jobsite cleanup crews need to be franchised in order to haul mixed C&D debris away.

2. **Franchised hauler**: Check the Department of Utilities (DOU) website for a list of these haulers. Only these companies and the City of Sacramento can collect and haul mixed C&D debris generated within the City for a fee.

3. **Source separation**: This means keeping wood, metal, cardboard, or other recyclables in separate containers, and sending the materials to an authorized recycler. A list of authorized recyclers can be found on the DOU web site. Source-separated materials may be hauled by anyone.

4. **Mixed C&D debris**: This means putting all recyclable debris into one container. Mixed materials must be sent to a certified mixed C&D sorting facility. Mixed materials may be either self-hauled or hauled by a franchised hauler. If your job site is crowded, this option saves the most space.

5. **Certified Mixed C&D Sorting Facility**: See the DOU web site for a list. These facilities have been certified by the Sacramento Regional Solid Waste Authority (SWSA) to extract recyclable materials from mixed C&D debris.

F. Terms and Conditions

- Your approved Waste Management Plan and Waste Log must be kept on the job site for the duration of the project.
- City of Sacramento Solid Waste Services staff may enter the jobsite to inspect waste collection areas.
- **ALL Clean Wood Waste** (unpainted, untreated lumber, plywood and OSB), **Inert Materials** (concrete, asphalt paving, brick, block, and dirt), **Wooden Pallets**, **Scrap Metal**, and **Corrugated Cardboard** must be recycled.
- Only SWA-Certified Mixed C&D Sorting Facilities may be used to recycle these materials if mixed with other materials.
- Only the City of Sacramento, SWA-Franchised Haulers, or self-haulers (as defined above) may collect and transport mixed C&D material from the jobsite.
- C&D Debris may not be burned or dumped illegally.
- Your Waste Log must be completed and submitted, with supporting weight tickets, within 30 days of submitting your project completion report. All waste hauling and disposal or recycling activity must be entered on the Waste Log, including information from any subcontractors who self-hauled their own debris off-site.
- You must keep all receipts or weight-tickets from your project for a period of one year from the submittal of your waste log.
- Failure to comply with these terms and conditions may result in a fine and payment of a security deposit on future projects.
## Certified Mixed C&D Facilities

<table>
<thead>
<tr>
<th>Facility Name</th>
<th>Contact Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allied Waste / Elder Creek Transfer and Recovery</td>
<td>(916) 387-8425</td>
</tr>
<tr>
<td>Florin-Perkins Public Disposal</td>
<td>(916) 443-5120</td>
</tr>
<tr>
<td>L&amp;D Landfill</td>
<td>(916) 737-8640</td>
</tr>
<tr>
<td>Waste Management / K&amp;M Recycle America</td>
<td>(916) 452-0142</td>
</tr>
</tbody>
</table>

## Franchised Haulers

<table>
<thead>
<tr>
<th>Hauler Name</th>
<th>Contact Number</th>
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</thead>
<tbody>
<tr>
<td>ACES Waste Services, Inc.</td>
<td>(866) 488-8837</td>
</tr>
<tr>
<td>Allied Waste Services</td>
<td>(916) 631-0600</td>
</tr>
<tr>
<td>All Waste Systems, Inc.</td>
<td>(916) 456-1555</td>
</tr>
<tr>
<td>Atlas Disposal Industries, LLC</td>
<td>(916) 455-2800</td>
</tr>
<tr>
<td>California Waste Recovery Systems</td>
<td>(916) 441-1985</td>
</tr>
<tr>
<td>Central Valley Waste Services, Inc.</td>
<td>(209) 369-8274</td>
</tr>
<tr>
<td>City of Sacramento Solid Waste</td>
<td>(916) 808-4839</td>
</tr>
<tr>
<td>Elk Grove Waste Management, LLC</td>
<td>(916) 689-4052</td>
</tr>
<tr>
<td>Mini Drops, Inc.</td>
<td>(916) 686-8785</td>
</tr>
<tr>
<td>Norcal Waste Services of Sacramento</td>
<td>(916) 381-5300</td>
</tr>
<tr>
<td>North West Recyclers</td>
<td>(916) 686-8575</td>
</tr>
<tr>
<td>Waste Management of Sacramento</td>
<td>(916) 387-1400</td>
</tr>
<tr>
<td>Waste Removal &amp; Recycling</td>
<td>(916) 453-1400</td>
</tr>
<tr>
<td>Western Strategic Materials, Inc.</td>
<td>(916) 388-1076</td>
</tr>
</tbody>
</table>

## Recyclers*

<table>
<thead>
<tr>
<th>Recycler Name</th>
<th>Contact Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bcll Marin</td>
<td>(916) 442-9080</td>
</tr>
<tr>
<td>C &amp; C Paper Recycling</td>
<td>(916) 920-2673</td>
</tr>
<tr>
<td>EBI Aggregates</td>
<td>(916) 372-7580</td>
</tr>
<tr>
<td>International Paper</td>
<td>(916) 371-4634</td>
</tr>
<tr>
<td>Modern Waste Solutions</td>
<td>(916) 447-6800</td>
</tr>
<tr>
<td>PRIDE industries, Inc.</td>
<td>(916) 640-1300</td>
</tr>
<tr>
<td>Recycling Industries, Inc.</td>
<td>(916) 452-3961</td>
</tr>
<tr>
<td>Sacramento Local Conservation Corp</td>
<td>(916) 386-8304</td>
</tr>
<tr>
<td>Smurfit-Stone Container Corporation</td>
<td>(916) 381-3340</td>
</tr>
<tr>
<td>Southside Art Center</td>
<td>(916) 387-8080</td>
</tr>
<tr>
<td>Spencer Building Maintenance, Inc.</td>
<td>(916) 922-1900</td>
</tr>
</tbody>
</table>

## Recovery Stations & Landfills

<table>
<thead>
<tr>
<th>Recovery Station Name</th>
<th>Contact Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elder Crock Recovery &amp; Transfer Station</td>
<td>(916) 387-8425</td>
</tr>
<tr>
<td>Kiefer Landfill</td>
<td>(916) 875-5555</td>
</tr>
<tr>
<td>L &amp; D Landfill</td>
<td>(916) 383-9420</td>
</tr>
<tr>
<td>North Area Recovery Station</td>
<td>(916) 875-5555</td>
</tr>
<tr>
<td>Sacramento Recycling &amp; Transfer Station</td>
<td>(916) 379-0500</td>
</tr>
<tr>
<td>Waste Management Recycling Rooyoko Amorosa</td>
<td>(016) 452 0142</td>
</tr>
</tbody>
</table>

More updated information can be found online at: [http://www.cityofsacramento.org/utilities/](http://www.cityofsacramento.org/utilities/)

* Please note that any facility may receive source-separated recyclable materials as long as it is authorized to do so by the State of California. This is not meant to be a complete list.
C&D Debris Waste Log

Project address: ______________________________

This waste log, and copies of supporting weight tickets, must be submitted to Solid Waste within 30 days of submitting the project completion report. The waste log and weight tickets must also be kept on file for one year after project completion.

<table>
<thead>
<tr>
<th>Date</th>
<th>Hauler</th>
<th>Material</th>
<th>Destination</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tr>
</tbody>
</table>

Hauler: Indicate the Franchisee, Self-Hauler, City of Sacramento, or other hauler who removed the material offsite.


Destination: Indicate the facility that received the material for disposal or recycling.

Amount: Indicate the weight. If weight is not known, put volume.
SECTION NO. 14 - SCHEDULE OF WAGES DATED 1/3/2020
General Decision Number: CA20200007 01/03/2020

Superseded General Decision Number: CA20190007

State: California

Construction Types: Building, Heavy (Heavy and Dredging) and Highway

Counties: Alpine, Amador, Butte, Colusa, El Dorado, Glenn, Lassen, Marin, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, Shasta, Sierra, Siskiyou, Solano, Sonoma, Sutter, Tehama, Trinity, Yolo and Yuba Counties in California.

BUILDING CONSTRUCTION PROJECTS (excluding Amador County only);
DREDGING CONSTRUCTION PROJECTS (does not include hopper dredge work);
HEAVY CONSTRUCTION PROJECTS (does not include water well drilling);
AND HIGHWAY CONSTRUCTION PROJECTS

Note: Under Executive Order (EO) 13658, an hourly minimum wage of $10.80 for calendar year 2020 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least $10.80 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2020. If this contract is covered by the EO and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must pay workers in that classification at least the wage rate determined through the conformance process set forth in 29 CFR 5.5(a)(1)(ii) (or the EO minimum wage rate, if it is higher than the conformed wage rate). The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number Publication Date
0 01/03/2020

ASBE0016-001 08/01/2019

AREA 1: MARIN, NAPA, SAN BENITO, SAN FRANCISCO, SOLANO, & SONOMA COUNTIES

AREA 2: ALPINE, AMADOR, BUTTE, COLUSA, EL DORADO, GLENN, MODOC, NEVADA, PLACER, PLumas, SACRAMENTO, SHAStA, SIERRA, SISKIYOU, SUTTER, TEHEMA, TRINITY, YOLO, & YUBA COUNTIES

Rates Fringes
Asbestos Workers/Insulator
(Includes the application of all insulating materials, Protective Coverings, Coatings, and Finishes to all types of mechanical systems)

<table>
<thead>
<tr>
<th>Area</th>
<th>Rate</th>
<th>Fringe</th>
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<tbody>
<tr>
<td>1</td>
<td>$68.11</td>
<td>23.32</td>
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<tr>
<td>2</td>
<td>$54.26</td>
<td>23.30</td>
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</table>

ASBE0016-007 01/01/2019

AREA 1: ALPINE, AMADOR, BUTTE, COLUSA, EL DORADO, GLENN, LASSEN, MODOC, NEVADA, PLACER, PLUMAS, SACRAMENTO, SHASTA, SIERRA, SISKIYOU, SOLANO, SONOMA, SUTTER, TEHAMA, TRINITY, YOLO & YUBA COUNTIES

AREA 2: MARIN & NAPA COUNTIES

<table>
<thead>
<tr>
<th>Rates</th>
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<tbody>
<tr>
<td>Asbestos Removal worker/hazardous material handler (Includes preparation, wetting, stripping, removal, scrapping, vacuuming, bagging and disposing of all insulation materials from mechanical systems, whether they contain asbestos or not)</td>
<td></td>
</tr>
<tr>
<td>AREA 1</td>
<td>$30.81</td>
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<tr>
<td>AREA 2</td>
<td>$36.53</td>
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BOIL0549-002 10/01/2016

BOILMAKER

<table>
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<tbody>
<tr>
<td>(1) Marin &amp; Solano Counties</td>
<td>$43.28</td>
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<tr>
<td>(2) Remaining Counties</td>
<td>$39.68</td>
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BRCA0003 001 08/01/2010

MARBLE FINISHER

<table>
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<td>$35.41</td>
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BRCA0003 004 05/01/2019

AREA 1: ALPINE, AMADOR, BUTTE, COLUSA, EL DORADO, GLENN, LASSEN, MODOC, NEVADA, PLACER, PLUMAS, SACRAMENTO, SHASTA, SIERRA, SUTTER, TEHAMA, YOLO AND YUBA COUNTIES

AREA 2: MARIN, NAPA, SISKIYOU, SOLANO, SONOMA AND TRINITY COUNTIES

<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
</tr>
</thead>
<tbody>
<tr>
<td>BRICKLAYER</td>
<td></td>
</tr>
<tr>
<td>AREA 1</td>
<td>$43.24</td>
</tr>
<tr>
<td>AREA 2</td>
<td>$45.92</td>
</tr>
</tbody>
</table>

SPECIALTY PAY:

https://beta.sam.gov/wage-determination/CA202000007/0?index=wd&ia_active=true&date_filter_index=0&date_range_selection=date&wdType=dbra&co... 2/45
(A) Underground work such as tunnel work, sewer work, manholes, catch basins, sewer pipes and telephone conduit shall be paid $1.25 per hour above the regular rate. Work in direct contact with raw sewage shall receive $1.25 per hour in addition to the above.
(B) Operating a saw or grinder shall receive $1.25 per hour above the regular rate.
(C) Gunite nozzle person shall receive $1.25 per hour above the regular rate.

<table>
<thead>
<tr>
<th>Rate</th>
<th>Fringes</th>
</tr>
</thead>
<tbody>
<tr>
<td>TERRAZZO FINISHER</td>
<td>$37.58</td>
</tr>
<tr>
<td>TERRAZZO WORKER/SETTER</td>
<td>$48.53</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Rate</th>
<th>Fringes</th>
</tr>
</thead>
<tbody>
<tr>
<td>TILE FINISHER</td>
<td></td>
</tr>
<tr>
<td>Area 1...............</td>
<td>$27.31</td>
</tr>
<tr>
<td>Area 2...............</td>
<td>$27.10</td>
</tr>
<tr>
<td>Area 3...............</td>
<td>$29.94</td>
</tr>
<tr>
<td>Area 4...............</td>
<td>$28.06</td>
</tr>
<tr>
<td>Tile Layer</td>
<td></td>
</tr>
<tr>
<td>Area 1...............</td>
<td>$45.51</td>
</tr>
<tr>
<td>Area 2...............</td>
<td>$45.15</td>
</tr>
<tr>
<td>Area 3...............</td>
<td>$49.90</td>
</tr>
<tr>
<td>Area 4...............</td>
<td>$46.77</td>
</tr>
</tbody>
</table>

AREA 1: Butte, Colusa, El Dorado, Glenn, Lassen, Modoc, Nevada, Placer, Plumas, Sacramento, Shasta, Sierra, Sutter, Tehama, Yolo, Yuba
AREA 2: Alpine, Amador
AREA 3: Marin, Napa, Solano, Siskiyou
AREA 4: Sonoma

<table>
<thead>
<tr>
<th>Rate</th>
<th>Fringes</th>
</tr>
</thead>
<tbody>
<tr>
<td>MARBLE MASON</td>
<td>$49.42</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Rate</th>
<th>Fringes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diver</td>
<td></td>
</tr>
<tr>
<td>Assistant Tender, ROV</td>
<td>$49.75</td>
</tr>
<tr>
<td>Tender/Technician</td>
<td>$55.73</td>
</tr>
<tr>
<td>Diver standby</td>
<td>$54.73</td>
</tr>
<tr>
<td>Diver Tender</td>
<td>$99.27</td>
</tr>
<tr>
<td>Manifold Operator (mixed gas)</td>
<td>$59.73</td>
</tr>
<tr>
<td>Manifold Operator (Standby)</td>
<td>$54.73</td>
</tr>
</tbody>
</table>

DEPTH PAY (Surface Diving):
050 to 100 ft     $2.00 per foot
101 to 150 ft     $3.00 per foot
151 to 220 ft     $4.00 per foot
221 ft.-deeper $5.00 per foot

SATURATION DIVING:
The standby rate shall apply until saturation starts. The saturation diving rate applies when divers are under pressure continuously until work task and decompression are complete. The diver rate shall be paid for all saturation hours.

DIVING IN ENCLOSURES:
Where it is necessary for divers to enter pipes or tunnels, or other enclosures where there is no vertical ascent, the following premium shall be paid: Distance traveled from entrance 25 feet to 300 feet: $1.00 per foot. When it is necessary for a diver to enter any pipe, tunnel or other enclosure less than 48" in height, the premium will be $1.00 per foot.

WORK IN COMBINATION OF CLASSIFICATIONS:
Employees working in any combination of classifications within the diving crew (except dive supervisor) in a shift are paid in the classification with the highest rate for that shift.

<table>
<thead>
<tr>
<th>CARP0034-003 07/01/2019</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Rates</strong></td>
</tr>
<tr>
<td>Piledriver.........................$ 50.75</td>
</tr>
</tbody>
</table>

* CARP0035-001 08/01/2019

AREA 1: MARIN, NAPA, SOLANO & SONOMA

AREA 3: SACRAMENTO, WESTERN EL DORADO (Territory west of an including highway 49 and the territory inside the city limits of Placerville), WESTERN PLACER (Territory west of and including highway 49), & YOLO

AREA 4: ALPINE, BUTTE, COLUSA, EASTERN EL DORADO, GLENN, LASSEN, MODOC, NEVADA, EASTERN PLACER, PLUMAS, SHASTA, SIERRA, SISKIYOU, SUTHER, TCHAMA, TRINITY, & YUBA

<table>
<thead>
<tr>
<th>Drywall Installers/Lathers:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area 1..........................$ 50.50</td>
</tr>
<tr>
<td>Area 3..........................$ 45.12</td>
</tr>
<tr>
<td>Area 4..........................$ 43.77</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Drywall Stocker/Scraper</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area 1......................$ 25.25</td>
</tr>
<tr>
<td>Area 3......................$ 22.56</td>
</tr>
<tr>
<td>Area 4......................$ 21.89</td>
</tr>
</tbody>
</table>

* CARP0035-009 07/01/2019

Marin County

<table>
<thead>
<tr>
<th>CARPENTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bridge Builder/Highway</td>
</tr>
<tr>
<td>Carpenter..................$ 50.50</td>
</tr>
</tbody>
</table>
### Modular Furniture Installer

<table>
<thead>
<tr>
<th>Area 1</th>
<th>Installer I</th>
<th>$24.91</th>
<th>19.63</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Installer II</td>
<td>$22.18</td>
<td>20.42</td>
</tr>
<tr>
<td></td>
<td>Lead Installer</td>
<td>$29.06</td>
<td>20.92</td>
</tr>
<tr>
<td></td>
<td>Master Installer</td>
<td>$33.28</td>
<td>20.92</td>
</tr>
<tr>
<td>Area 2</td>
<td>Installer I</td>
<td>$22.96</td>
<td>20.42</td>
</tr>
<tr>
<td></td>
<td>Installer II</td>
<td>$20.01</td>
<td>20.42</td>
</tr>
<tr>
<td></td>
<td>Lead Installer</td>
<td>$25.93</td>
<td>20.92</td>
</tr>
<tr>
<td></td>
<td>Master Installer</td>
<td>$29.56</td>
<td>20.92</td>
</tr>
<tr>
<td>Area 3</td>
<td>Installer I</td>
<td>$22.01</td>
<td>20.42</td>
</tr>
<tr>
<td></td>
<td>Installer II</td>
<td>$19.24</td>
<td>20.42</td>
</tr>
<tr>
<td></td>
<td>Lead Installer</td>
<td>$24.81</td>
<td>20.92</td>
</tr>
<tr>
<td></td>
<td>Master Installer</td>
<td>$31.83</td>
<td>20.92</td>
</tr>
</tbody>
</table>

### El Dorado (West), Placer (West), Sacramento and Yolo Counties

<table>
<thead>
<tr>
<th>Carpenter</th>
<th>Rate</th>
<th>Fringe</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bridge Builder/Highway</td>
<td>$50.50</td>
<td>30.20</td>
</tr>
<tr>
<td>Carpenter</td>
<td>$50.50</td>
<td>30.20</td>
</tr>
<tr>
<td>Hardwood Floorlayer, Shingler, Power Saw Operator, Steel Scaffold &amp; Steel Shoring Erector, Saw</td>
<td>$44.77</td>
<td>30.20</td>
</tr>
<tr>
<td>Journeymen Carpenter</td>
<td>$44.62</td>
<td>30.20</td>
</tr>
<tr>
<td>Millwright</td>
<td>$47.12</td>
<td>31.79</td>
</tr>
</tbody>
</table>

Footnote: Placer County (West) includes territory West of and including Highway 49 and El Dorado County (West) includes territory West of and including Highway 49 and territory inside the city limits of Placerville.
### Carpenters

<table>
<thead>
<tr>
<th>Position</th>
<th>Rate</th>
<th>Fringes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bridge Builder/Highway Carpenter</td>
<td>$50.50</td>
<td>30.20</td>
</tr>
<tr>
<td>Hardwood Floorlayer, Shingler, Power Saw Operator, Steel Scaffold &amp; Steel Shoring Erector, Saw Filer</td>
<td>$43.42</td>
<td>30.20</td>
</tr>
<tr>
<td>Journeyman Carpenter</td>
<td>$42.27</td>
<td>30.20</td>
</tr>
<tr>
<td>Millwright</td>
<td>$45.77</td>
<td>31.79</td>
</tr>
</tbody>
</table>

**CARP0152-003 07/01/2019**

### Amador County

<table>
<thead>
<tr>
<th>Position</th>
<th>Rate</th>
<th>Fringes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bridge Builder/Highway Carpenter</td>
<td>$50.50</td>
<td>30.20</td>
</tr>
<tr>
<td>Hardwood Floorlayer, Shingler, Power Saw Operator, Steel Scaffold &amp; Steel Shoring Erector, Saw Filer</td>
<td>$43.42</td>
<td>30.20</td>
</tr>
<tr>
<td>Journeyman Carpenter</td>
<td>$43.27</td>
<td>30.20</td>
</tr>
<tr>
<td>Millwright</td>
<td>$45.77</td>
<td>31.79</td>
</tr>
</tbody>
</table>

**CARP0180-001 07/01/2019**

### Solano County

<table>
<thead>
<tr>
<th>Position</th>
<th>Rate</th>
<th>Fringes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bridge Builder/Highway Carpenter</td>
<td>$50.50</td>
<td>30.20</td>
</tr>
<tr>
<td>Hardwood Floorlayer, Shingler, Power Saw Operator, Steel Scaffold &amp; Steel Shoring Erector, Saw Filer</td>
<td>$50.65</td>
<td>30.20</td>
</tr>
<tr>
<td>Journeyman Carpenter</td>
<td>$50.50</td>
<td>30.20</td>
</tr>
<tr>
<td>Millwright</td>
<td>$50.60</td>
<td>31.79</td>
</tr>
</tbody>
</table>

**CARP0751-001 07/01/2019**

### Napa and Sonoma Counties

<table>
<thead>
<tr>
<th>Position</th>
<th>Rate</th>
<th>Fringes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bridge Builder/Highway Carpenter</td>
<td>$50.50</td>
<td>30.20</td>
</tr>
<tr>
<td>Hardwood Floorlayer, Shingler, Power Saw Operator, Steel Scaffold &amp; Steel Shoring Erector, Saw Filer</td>
<td>$50.65</td>
<td>30.20</td>
</tr>
<tr>
<td>Journeyman Carpenter</td>
<td>$50.50</td>
<td>30.20</td>
</tr>
<tr>
<td>Millwright</td>
<td>$50.60</td>
<td>31.79</td>
</tr>
</tbody>
</table>

Page 363 of 580
Butte, Glenn, Lassen, Modoc, Plumas, Shasta, Siskiyou, Tehama and Trinity Counties

<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carpenter</td>
<td>Bridge Builder/Highway</td>
</tr>
<tr>
<td>$50.50</td>
<td>30.20</td>
</tr>
<tr>
<td>Hardwood Floorlayer, Shingler, Power Saw Operator, Steel Scaffold &amp; Steel Shoring Erector, Saw Filer</td>
<td>$43.42</td>
</tr>
<tr>
<td></td>
<td>30.20</td>
</tr>
<tr>
<td>Journeyman Carpenter</td>
<td>$43.27</td>
</tr>
<tr>
<td></td>
<td>30.20</td>
</tr>
<tr>
<td>Millwright</td>
<td>$45.77</td>
</tr>
<tr>
<td></td>
<td>31.79</td>
</tr>
</tbody>
</table>

---

NAPA AND SOLANO COUNTIES

<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CABLE SPLICER</td>
<td>$56.26</td>
</tr>
<tr>
<td></td>
<td>24.16</td>
</tr>
<tr>
<td>ELECTRICIAN</td>
<td>$50.01</td>
</tr>
<tr>
<td></td>
<td>23.98</td>
</tr>
</tbody>
</table>

---

NAPA AND SOLANO COUNTIES

<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sound &amp; Communications Installer</td>
<td>$38.42</td>
</tr>
<tr>
<td></td>
<td>19.70</td>
</tr>
<tr>
<td>Technician</td>
<td>$44.18</td>
</tr>
<tr>
<td></td>
<td>19.88</td>
</tr>
</tbody>
</table>

**SCOPE OF WORK INCLUDES-**
SOUND & VOICE TRANSMISSION (Music, Intercom, Nurse Call, Telephone); FIRE ALARM SYSTEMS [excluding fire alarm work when installed in raceways (including wire and cable pulling) and when performed on new or major remodel building projects or jobs], TELEVISION & VIDEO SYSTEMS, SECURITY SYSTEMS, COMMUNICATIONS SYSTEMS that transmit or receive information and/or control systems that are intrinsic to the above.

**EXCLUDES-**
Excludes all other data systems or multiple systems which include control function or power supply; excludes installation of raceway systems, line voltage work, industrial work, life-safety systems (all buildings having floors located more than 75' above the lowest floor level having building access); excludes energy management systems.

---

ALPINE, AMADOR, BUTTE, COLUSA, EL DORADO, GLENN, LASSEN, NEVADA, PLACER, PLUMAS, SACRAMENTO, TRINITY, YOLO, YUBA COUNTIES
Communications System
  Sound & Communications  
  Installer.................. $29.35  
  Technician.................. $33.75  
  3%+15.35

**SCOPE OF WORK**

Includes the installation, testing, service and maintenance, of the following systems which utilize the transmission and/or transference of voice, sound, vision and digital for commercial, education, security and entertainment purposes for the following TV monitoring and surveillance, background-foreground music, intercom and telephone interconnect, inventory control systems, microwave transmission, multi-media, multiplex, nurse call system, radio page, school intercom and sound, burglar alarms, and low voltage master clock systems.

A. **SOUND AND VOICE TRANSMISSION/TRANSFERENCE SYSTEMS**

  Background foreground music  
  Intercom and telephone interconnect systems  
  Telephone systems  
  Nurse call systems  
  Radio page systems  
  School intercom and sound systems  
  Burglar alarm systems  
  Low voltage master clock systems  
  Multi-media/multiplex systems  
  Sound and musical entertainment systems  
  RF systems  
  Antennas and Wave Guide

D. **FIRE ALARM SYSTEMS**

  Installation, wire pulling and testing

C. **TELEVISION AND VIDEO SYSTEMS**

  Television monitoring and surveillance systems  
  Video security systems  
  Video entertainment systems  
  Video educational systems  
  Microwave transmission systems  
  CATV and CCTV

D. **SECURITY SYSTEMS**

  Perimeter security systems  
  Vibration sensor systems  
  Card access systems  
  Access control systems  
  Sonar/infrared monitoring equipment

E. **COMMUNICATIONS SYSTEMS THAT TRANSMIT OR RECEIVE INFORMATION AND/OR CONTROL SYSTEMS THAT ARE INTRINSIC TO THE ABOVE LISTED SYSTEMS**

  SCADA (Supervisory Control and Data Acquisition)  
  PLCM (Pulse Code Modulation)  
  Inventory Control Systems  
  Digital Data Systems  
  Broadband and Baseband and Carriers  
  Point of Sale Systems  
  VSAT Data Systems  
  Data Communication Systems  
  RF and Remote Control Systems  
  Fiber Optic Data Systems  

WORK EXCLUDED: Raceway systems are not covered (excluding Ladder-Rack for the purpose of the above listed systems). Chases and/or nipples (not to exceed 10 feet) may be installed on open wiring systems. Energy management systems. SCADA (Supervisory Control and Data Acquisition) when not intrinsic to the above listed systems (in the scope). Fire alarm systems when installed in raceways (including wire and cable pulling) shall be performed at the electrician wage rate, when either of the following two (2) conditions apply:

1. The project involves new or major remodel building trades construction.
2. The conductors for the fire alarm system are installed in conduit.
ELEC0340-003 08/01/2018

ALPINE (West of Sierra Mt. Watershed), AMADOR, BUTTE, COLUSA, EL DORADO (West of Sierra Mt. Watershed), GLENN, LASSEN, NEVADA (West of Sierra Mt. Watershed), PLACER, PLUMAS, SACRAMENTO, SHASTA, SIERRA (West of Sierra Mt. Watershed), SUTTER, TEHAMA, TRINITY, YOLO & YUBA COUNTIES

<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remaining area......... $ 40.06</td>
<td>28.54</td>
</tr>
<tr>
<td>Sierra Army Depot, Herlong... $ 48.83</td>
<td>18.54</td>
</tr>
<tr>
<td>Tunnel work................... $ 41.01</td>
<td>18.54</td>
</tr>
</tbody>
</table>

CABLE SPLICER: Receives 110% of the Electrician basic hourly rate.

ELEC0401-005 07/01/2019

ALPINE (east of the main watershed divide), EL DORADO (east of the main watershed divide), NEVADA (east of the main watershed divide), PLACER (east of the main watershed divide) and SIERRA (east of the main watershed divide) COUNTIES:

<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELECTRICIAN................... $ 40.50</td>
<td>19.39</td>
</tr>
</tbody>
</table>

ELEC0551-004 06/01/2019

MARIN AND SONOMA COUNTIES

<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELECTRICIAN................... $ 51.40</td>
<td>22.83</td>
</tr>
</tbody>
</table>

ELEC0551-005 12/01/2018

MARIN & SONOMA COUNTIES

<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sound &amp; Communications Installer................... $ 38.42</td>
<td>20.11</td>
</tr>
<tr>
<td>Technician...................... $ 41.18</td>
<td>30.29</td>
</tr>
</tbody>
</table>

SCOPE OF WORK INCLUDES-
SOUND & VOICE TRANSMISSION (Music, Intercom, Nurse Call, Telephone); FIRE ALARM SYSTEMS [excluding fire alarm work when installed in raceways (including wire and cable pulling) and when performed on new or major remodel building projects or jobs], TELEVISION & VIDEO SYSTEMS, SECURITY SYSTEMS, COMMUNICATIONS SYSTEMS that transmit or receive information and/or control systems that are intrinsic to the above.

EXCLUDES-
Excludes all other data systems or multiple systems which include control function or power supply; excludes installation of raceway systems, line voltage work, industrial work, life-safety systems (all buildings having
floors located more than 75' above the lowest floor level having building access); excludes energy management systems.

---

**ELEC0659-006 01/01/2019**

**DEL NORTE, MODOC and SISKIYOU COUNTIES**

<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELECTRICIAN</td>
<td>$ 35.19</td>
</tr>
</tbody>
</table>

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**ELEC0659-008 02/01/2019**

**DEL NORTE, MODOC & SISKIYOU COUNTIES**

<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Line Construction</td>
<td></td>
</tr>
<tr>
<td>(1) Cable Splicer</td>
<td>$ 59.09</td>
</tr>
<tr>
<td>(2) Lineman, Pole Sprayer,</td>
<td></td>
</tr>
<tr>
<td>Heavy Line Equipment Man..</td>
<td>$ 52.76</td>
</tr>
<tr>
<td>(3) Tree Trimmer</td>
<td>$ 31.10</td>
</tr>
<tr>
<td>(4) Line Equipment Man...</td>
<td>$ 52.76</td>
</tr>
<tr>
<td>(5) Powdermen,</td>
<td></td>
</tr>
<tr>
<td>Jackhamermen</td>
<td>$ 33.80</td>
</tr>
<tr>
<td>(6) Groundman</td>
<td>$ 33.24</td>
</tr>
</tbody>
</table>

---

* ELEC1245-004 06/01/2019

**ALL COUNTIES EXCEPT DEL NORTE, MODOC & SISKIYOU**

<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
</tr>
</thead>
<tbody>
<tr>
<td>LINE CONSTRUCTION</td>
<td></td>
</tr>
<tr>
<td>(1) Lineman; Cable splicer..</td>
<td>$ 58.09</td>
</tr>
<tr>
<td>(2) Equipment specialist</td>
<td></td>
</tr>
<tr>
<td>(operates crawler</td>
<td></td>
</tr>
<tr>
<td>tractors, commercial motor</td>
<td></td>
</tr>
<tr>
<td>vehicles, backhoes,</td>
<td></td>
</tr>
<tr>
<td>trenchers, cranes (50 tons and below),</td>
<td></td>
</tr>
<tr>
<td>overhead &amp; underground distribution</td>
<td></td>
</tr>
<tr>
<td>line equipment)</td>
<td>$ 46.40</td>
</tr>
<tr>
<td>(3) Groundman</td>
<td>$ 35.47</td>
</tr>
<tr>
<td>(4) Powderman</td>
<td>$ 49.55</td>
</tr>
</tbody>
</table>


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**ELEV00008-001 01/01/2019**

<table>
<thead>
<tr>
<th>Rates</th>
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</tr>
</thead>
<tbody>
<tr>
<td>ELEVATOR MECHANIC</td>
<td>$ 67.56</td>
</tr>
</tbody>
</table>

**FOOTNOTE:**

PAID VACATION: Employer contributes 8% of regular hourly rate as vacation pay credit for employees with more than 5 years of service, and 6% for 6 months to 5 years of service.

Thanksgiving, and Christmas Day.

| ENGI0003-008 07/01/2017 |

<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
</tr>
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</table>
| Dredging: (DREDGING:
CLAMSHELL & DIPPER DREDGING;
HYDRAULIC SUCTION DREDGING:)
| AREA 1: |
| (1) Leverman...........$ 44.77  | 31.25 |
| (2) Dredge Dozer; Heavy duty repairman...........$ 39.81  | 31.25 |
| (3) Booster Pump Operator; Deck Engineer; Deck mate; Dredge Tender; Winch Operator...........$ 38.69  | 31.25 |
| (4) Bargeman; Deckhand; Fireman; Leveehand; Oiler..$ 35.39  | 31.25 |
| AREA 2: |
| (1) Leverman...........$ 46.77  | 31.25 |
| (2) Dredge Dozer; Heavy duty repairman...........$ 41.81  | 31.25 |
| (3) Booster Pump Operator; Deck Engineer; Deck mate; Dredge Tender; Winch Operator...........$ 40.69  | 31.25 |
| (4) Bargeman; Deckhand; Fireman; Leveehand; Oiler..$ 37.39  | 31.25 |

AREA DESCRIPTIONS

AREA 1: ALAMEDA, BUTTE, CONTRA COSTA, KINGS, MARIN, MERCED, NAPA, SACRAMENTO, SAN BENITO, SAN FRANCISCO, SAN JOAQUIN, SAN MATEO, SANTA CLARA, SANTA CRUZ, SOLANO, STANISLAUS, SUTTER, YOLO, AND YUBA COUNTIES

AREA 2: MODOC COUNTY

THE REMAINING COUNTIES ARE SPLIT BETWEEN AREA 1 AND AREA 2 AS NOTED BELOW:

ALPINE COUNTY:
Area 1: Northernmost part
Area 2: Remainder

CALAVERAS COUNTY:
Area 1: Remainder
Area 2: Eastern part

COLUSA COUNTY:
Area 1: Eastern part
Area 2: Remainder

ELDORADO COUNTY:
Area 1: North Central part
Area 2: Remainder

FRESNO COUNTY:
Area 1: Remainder
Area 2: Eastern part
GLENN COUNTY:
Area 1: Eastern part
Area 2: Remainder

LASSEN COUNTY:
Area 1: Western part along the Southern portion of border with Shasta County
Area 2: Remainder

MADERA COUNTY:
Area 1: Except Eastern part
Area 2: Eastern part

MARIPOSA COUNTY
Area 1: Except Eastern part
Area 2: Eastern part

MONTERREY COUNTY
Area 1: Except Southwestern part
Area 2: Southwestern part

NEVADA COUNTY:
Area 1: All but the Northern portion along the border of Sierra County
Area 2: Remainder

PLACER COUNTY:
Area 1: All but the Central portion
Area 2: Remainder

PLUMAS COUNTY:
Area 1: Western portion
Area 2: Remainder

SHASTA COUNTY:
Area 1: All but the Northeastern corner
Area 2: Remainder

SIERRA COUNTY:
Area 1: Western part
Area 2: Remainder

SISKIYOU COUNTY:
Area 1: Central part
Area 2: Remainder

SONOMA COUNTY:
Area 1: All but the Northwestern corner
Area 2: Remainder

TEHAMA COUNTY:
Area 1: All but the Western border with Mendocino & Trinity Counties
Area 2: Remainder

TRINITY COUNTY:
Area 1: East Central part and the Northeastern border with Shasta County
Area 2: Remainder

TUOLUMNE COUNTY:
Area 1: Except Eastern part
Area 2: Eastern part
"AREA 1" WAGE RATES ARE LISTED BELOW

"AREA 2" RECEIVES AN ADDITIONAL $2.00 PER HOUR ABOVE AREA 1 RATES.

SEE AREA DEFINITIONS BELOW

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<thead>
<tr>
<th>Rates</th>
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<tbody>
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<tr>
<td>$33.20</td>
<td>30.39</td>
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</table>

OPERATOR: Power Equipment
(AREA 1:)

GROUP 1
- Cranes: $46.30 30.39
- Oiler: $36.63 30.39
- Truck crane oiler: $39.20 30.39

GROUP 2
- Cranes: $43.79 30.39
- Oiler: $36.36 30.39
- Truck crane oiler: $38.98 30.39

GROUP 3
- Cranes: $42.05 30.39
- Hydraulic: $38.32 30.39
- Oiler: $36.14 30.39
- Truck Crane Oiler: $38.71 30.39

GROUP 4
- Cranes: $39.01 30.39

OPERATOR: Power Equipment
(Piloting AREA 1:)

GROUP 1
- Lifting devices: $45.89 30.39
- Oiler: $36.63 30.39
- Truck crane oiler: $39.20 30.39

GROUP 2
- Lifting devices: $44.07 30.39
- Oiler: $36.36 30.39
- Truck Crane Oiler: $38.98 30.39

GROUP 3
- Lifting devices: $42.39 30.39
- Oiler: $36.14 30.39
- Truck Crane Oiler: $38.71 30.39

GROUP 4
- Lifting devices: $40.62 30.39

GROUP 5
- Lifting devices: $39.32 30.39

GROUP 6
- Lifting devices: $37.98 30.39

OPERATOR: Power Equipment
(Steel Erection - AREA 1:)

GROUP 1
- Cranes: $46.30 30.39
<table>
<thead>
<tr>
<th>Operator</th>
<th>Rate</th>
<th>Rate</th>
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</thead>
<tbody>
<tr>
<td>Oiler.</td>
<td>$36.63</td>
<td>$30.39</td>
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<tr>
<td>Truck Crane Oiler</td>
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**GROUP 2**

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<tr>
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<th>Rate</th>
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</thead>
<tbody>
<tr>
<td>Cranes.</td>
<td>$43.79</td>
<td>$30.39</td>
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<tr>
<td>Oiler.</td>
<td>$36.36</td>
<td>$30.39</td>
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<tr>
<td>Truck Crane Oiler</td>
<td>$38.98</td>
<td>$30.39</td>
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**GROUP 3**

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<tbody>
<tr>
<td>Cranes.</td>
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<td>Hydraulic</td>
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<td>Oiler.</td>
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<tr>
<td>Truck Crane Oiler</td>
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**GROUP 4**

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<tbody>
<tr>
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**GROUP 5**

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<tr>
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<tbody>
<tr>
<td>Cranes.</td>
<td>$35.13</td>
<td>$30.39</td>
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**OPERATOR: Power Equipment**

*(Tunnel and Underground Work)*

- **AREA 1:**

<table>
<thead>
<tr>
<th>SHAFTS, STOPES, RAISES:</th>
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</thead>
<tbody>
<tr>
<td>GROUP 1</td>
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<tr>
<td>GROUP 1-A</td>
</tr>
<tr>
<td>GROUP 2</td>
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<tr>
<td>GROUP 3</td>
</tr>
<tr>
<td>GROUP 4</td>
</tr>
<tr>
<td>GROUP 5</td>
</tr>
</tbody>
</table>

**UNDERGROUND:**

| GROUP 1 | $40.67 | $30.39 |
| GROUP 1-A | $43.14 | $30.39 |
| GROUP 2 | $39.41 | $30.39 |
| GROUP 3 | $30.00 | $30.39 |
| GROUP 4 | $36.94 | $30.39 |
| GROUP 5 | $35.80 | $30.39 |

**FOOTNOTE:** Work suspended by ropes or cables, or work on a Yo-Yo Cat: $.60 per hour additional.

**POWER EQUIPMENT OPERATOR CLASSIFICATIONS**

**GROUP 1:** Operator of helicopter (when used in erection work); Hydraulic excavator, 7 cu. yds. and over; Power shovels, over 7 cu. yds.

**GROUP 2:** Highline cableway; Hydraulic excavator, 3-1/2 cu. yds. up to 7 cu. yds.; Licensed construction work boat operator, on site; Power blade operator (finish); Power shovels, over 1 cu. yd. up to and including 7 cu. yds. m.r.c.

**GROUP 3:** Asphalt milling machine; Cable backhoe; Combination backhoe and loader over 3/4 cu. yds.; Continuous flight tie back machine assistant to engineer or mechanic; Crane mounted continuous flight tie back machine, tonnage to apply; Crane mounted drill attachment, tonnage to apply; Dozer, slope brd; Gradall; Hydraulic excavator, up to 3 1/2 cu. yds.; Loader 4 cu. yds. and over; Long reach excavator; Multiple engine scraper (when used as push pull); Power shovels, up to and including 1 cu. yd.; Pre-stress wire wrapping machine; Side boom cat, 572 or larger; Track loader 4 cu. yds. and over; Wheel excavator (up to and including 750 cu. yds. per hour)

**GROUP 4:** Asphalt plant engineer/box person; Chicago boom; Combination backhoe and loader up to and including 3/4 cu. yd.; Concrete batch plant (wet or dry); Dozer and/or push
cat; Pull-type elevating loader; Gradesetter, grade checker (GPS, mechanical or otherwise); Grooving and grinding machine; Heading shield operator; Heavy-duty drilling equipment, Hughes, LDH, Watson 3000 or similar; Heavy-duty repairperson and/or welder; Lime spreader; Loader under 4 cu. yds.; Lubrication and service engineer (mobile and grease rack); Mechanical finishers or spreader machine (asphalt, Barber-Greene and similar); Miller Formless M-9000 slope paver or similar; Portable crushing and screening plants; Power blade support; Roller operator, asphalt; Rubber-tired Scraper, self-loading (paddle-wheels, etc.); Rubber-tired earthmoving equipment (scrapers); Slip form paver (concrete); Small tractor with drag; Soil stabilizer (P & H or equal); Spider plow and spider puller; Tubex pile rig; Unlicensed construction work boat operator, on site; Timber skidder; Track loader up to 4 yds.; Tractor-drawn scraper; Tractor, compressor drill combination; Welder; Woods-Mixer (and other similar Pugmill equipment)

GROUP 5: Cast-in-place pipe laying machine; Combination slusher and motor operator; Concrete conveyor or concrete pump, truck or equipment mounted; Concrete conveyor, building site; Concrete pump or pumpcrete gun; Drilling equipment, Watson 2000, Texoma 700 or similar; Drilling and boring machinery, horizontal (not to apply to waterliners, wagon drills or jackhammers); Concrete mixer/all; Person and/or material hoist; Mechanical finishers (concrete) (Clary, Johnson, Bidwell Bridge Deck or similar types); Mechanical burr, curb and/or curb and gutter machine, concrete or asphalt); Mine or shaft hoist; Portable crusher; Power jumbo operator (setting slip-forms, etc., in tunnels); Screed (automatic or manual); Self-propelled compactor with dozer; Tractor with boom D6 or smaller; Trenching machine, maximum digging capacity over 5 ft. depth; Vermeer T-600B rock cutter or similar

GROUP 6: Armor-Coater (or similar); Ballast jack tamper; Boom-type backfilling machine; Assistant plant engineer; Bridge and/or gantry crane; Chemical grouting machine, truck-mounted; Chip spreading machine operator; Concrete saw (self-propelled unit on streets, highways, airports and canals); Deck engineer; Drilling equipment Texoma 600, Hughes 200 Series or similar up to and including 30 ft. m.r.c.; Drill doctor; Helicopter radio operator; Hydrohammer or similar; Line master; Skidsteer loader, Bobcat larger than 743 series or similar (with attachments); Locomotive; Lull hi-lift or similar; Oiler, truck mounted equipment; Pavement breaker, truck mounted, with compressor combination; Paving fabric installation and/or laying machine; Pipe bending machine (pipelines only); Pipe wrapping machine (tractor propelled and supported); Screed (except asphaltic concrete paving); Self-propelled pipeline wrapping machine; Tractor; Self-loading chipper; Concrete barrier moving machine

GROUP 7: Ballast regulator; Boom truck or dual-purpose A-frame truck, non-rotating - under 15 tons; Cary lift or similar; Combination slurry mixer and/or cleaner; Drilling equipment, 20 ft. and under m.r.c.; Firerender (hot plant); Grouting machine operator; Highline cableway signalperson; Stationary belt loader (Kolman or similar); Lift slab machine (Vagtborg and similar types); Maginnes internal full slab vibrator; Material hoist (1 drum); Mechanical trench shield; Pavement breaker with or without compressor
Pipe cleaning machine (tractor propelled and supported); Post driver; Roller (except asphalt); Chip Seal; Self-propelled automatically applied concrete curing machine (on streets, highways, airports and canals); Self-propelled compactor (without dozer); Signalperson; Slip-form pumps (lifting device for concrete forms); Tie spacer; Tower mobile; Trenching machine, maximum digging capacity up to and including 5 ft. depth; Truck-type loader

GROUP 8: Bit sharpener; Boiler tender; Box operator; Brakeperson; Combination mixer and compressor (shotcrete/guniting); Compressor operator; Deckhand; Fire tender; Forklift (under 20 ft.); Generator; Guniting/shotcrete equipment operator; Hydraulic monitor; Ken seale machine (or similar); Mixermobile; Oilier; Pump operator; Refrigeration plant; Reservoir debris tug (self-propelled floating); Ross Carrier (construction site); Rotomist operator; Self-propelled tape machine; Shuttlecar; Self-propelled power sweeper operator (includes vacuum sweeper); Slusher operator; Surface heater; Switchperson; Tar pot firetender; Tugger hoist, single drum; Vacuum cooling plant; Welding machine (powered other than by electricity)

GROUP 8-A: Elevator operator; Skidsteer loader-Bobcat 743 series or smaller, and similar (without attachments); Mini excavator under 25 H.P. (backhoe-trencher); Tub grinder wood chipper

______________________________________________________________

ALL CRANES AND ATTACHMENTS

GROUP 1: Clamshell and dragline over 7 cu. yds.; Crane. over 100 tons; Derrick, over 100 tons; Derrick barge pedestal-mounted, over 100 tons; Self-propelled boom-type lifting device, over 100 tons

GROUP 2: Clamshell and dragline over 1 cu. yd. up to and including 7 cu. yds.; Crane, over 45 tons up to and including 100 tons; Derrick barge, 100 tons and under; Self-propelled boom-type lifting device, over 45 tons; Tower crane

GROUP 3: Clamshell and dragline up to and including 1 cu. yd.; Cranes 45 tons and under; Self-propelled boom-type lifting device 45 tons and under;

GROUP 4: Boom Truck or dual purpose A-frame truck, non-rotating over 15 tons; Truck-mounted rotating telescopic boom type lifting device, Manitex or similar (boom truck) over 15 tons; Truck-mounted rotating telescopic boom type lifting device, Manitex or similar (boom truck) - under 15 tons;

______________________________________________________________

PILEDRIVERS

GROUP 1: Derrick barge pedestal mounted over 100 tons; Clamshell over 7 cu. yds.; Self-propelled boom-type lifting device over 100 tons; Truck crane or crawler, land or barge mounted over 100 tons

GROUP 2: Derrick barge pedestal mounted 45 tons to and
including 100 tons; Clamshell up to and including 7 cu.
yds.; Self-propelled boom-type lifting device over 45 tons;
Truck crane or crawler, land or barge mounted, over 45 tons
up to and including 100 tons; Fundance F-12 hydraulic pile rig

GROUP 3: Derrick barge pedestal mounted under 45 tons; Self-
propelled boom-type lifting device 45 tons and under;
Skid/scow piledriver, any tonnage; Truck crane or crawler,
land or barge mounted 45 tons and under

GROUP 4: Assistant operator in lieu of assistant to engineer;
Forklift, 10 tons and over; Heavy-duty repairperson/welder

GROUP 5: Deck engineer

GROUP 6: Deckhand; Fire tender

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STEEL ERECTORS

GROUP 1: Crane over 100 tons; Derrick over 100 tons; Self-
propelled boom-type lifting device over 100 tons

GROUP 2: Crane over 45 tons to 100 tons; Derrick under 100
tons; Self-propelled boom-type lifting device over 45 tons
to 100 tons; Tower crane

GROUP 3: Crane, 45 tons and under; Self-propelled boom-type
lifting device, 45 tons and under

GROUP 4: Chicago boom; Forklift, 10 tons and over; Heavy-duty
repair person/welder

GROUP 5: Boom cat

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TUNNEL AND UNDERGROUND WORK

GROUP 1-A: Tunnel bore machine operator, 20’ diameter or more

GROUP 1: Heading shield operator; Heavy-duty repairperson;
Mucking machine (rubber tired, rail or track type); Raised
bore operator (tunnels); Tunnel mole bore operator

GROUP 2: Combination slusher and motor operator; Concrete
pump or pumpcrete gun; Power jumbo operator

GROUP 3: Drill doctor; Mine or shaft hoist

GROUP 4: Combination slurry mixer cleaner; Grouting Machine
operator; Motorman

GROUP 5: Bit Sharpener; Brakeman; Combination mixer and
compressor (gunite); Compressor operator; Oiler; Pump
operator; Slusher operator

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AREA DESCRIPTIONS:

POWER EQUIPMENT OPERATORS, CRANES AND ATTACHMENTS,TUNNEL AND
UNDERGROUND [These areas do not apply to Piledrivers and
Steel Erectors]

AREA 1: ALPINE, AMADOR, BUTTE, COLUSA, EL DORADO, GLENN, 
LASSEN, MARIN, NAPA, NEVADA, PLACER, PLUMAS, SACRAMENTO, 
SHASTA, SIERRA, SISKIYOU, SOLANO, SONOMA, SUTTER, TEHAMA, 
TRINITY, YOLO, YUBA 
AREA 2 - MODOC COUNTY

THE REMAINING COUNTIES ARE SPLIT BETWEEN AREA 1 AND AREA 2 AS 
NOTED BELOW:

ALPINE COUNTY: 
Area 1: Northernmost part 
Area 2: Remainder

COLUSA COUNTY: 
Area 1: Eastern part 
Area 2: Remainder

DEL NORTE COUNTY: 
Area 1: Extreme Southwestern corner 
Area 2: Remainder

ELDORADO COUNTY: 
Area 1: North Central part 
Area 2: Remainder

GLENN COUNTY: 
Area 1: Eastern part 
Area 2: Remainder

LASSEN COUNTY: 
Area 1: Western part along the Southern portion of border 
with Shasta County 
Area 2: Remainder

NEVADA COUNTY: 
Area 1: All but the Northern portion along the border of 
Sierra County 
Area 2: Remainder

PLACER COUNTY: 
Area 1: All but the Central portion 
Area 2: Remainder

PLUMAS COUNTY: 
Area 1: Western portion 
Area 2: Remainder

SHASTA COUNTY: 
Area 1: All but the Northeastern corner 
Area 2: Remainder

SIERRA COUNTY: 
Area 1: Western part 
Area 2: Remainder

SISKIYOU COUNTY: 
Area 1: Central part 
Area 2: Remainder

SONOMA COUNTY: 
Area 1: All but the Northwestern corner 
Area 2: Remainder
TEHAMA COUNTY:
    Area 1: All but the Western border with mendocino & Trinity Counties
    Area 2: Remainder

TRINITY COUNTY:
    Area 1: East Central part and the Northeastern border with Shasta County
    Area 2: Remainder

-----------------------------------------------------------------------------------------------------------------

ENG1003-019 07/26/2017

SEE AREA DESCRIPTIONS BELOW

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<tr>
<td>AREA 1</td>
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<td>AREA 2</td>
<td>$ 27.84</td>
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</table>

GROUP DESCRIPTIONS:

GROUP 1: Landscape Finish Grade Operator: All finish grade work regardless of equipment used, and all equipment with a rating more than 65 HP.

GROUP 2: Landscape Operator up to 65 HP: All equipment with a manufacturer's rating of 65 HP or less except equipment covered by Group 1 or Group 3. The following equipment shall be included except when used for finish work as long as manufacturer's rating is 65 HP or less: A-Frame and Winch Truck, Backhoe, Forklift, Hydragraphic Seeder Machine, Roller, Rubber-Tired and Track Earthmoving Equipment, Skiploader, Straw Blowers, and Trencher 31 HP up to 65 HP.

GROUP 3: Landscae Utility Operator: Small Rubber-Tired Tractor, Trencher Under 31 HP.

AREA DESCRIPTIONS:

AREA 1: ALAMEDA, BUTTE, CONTRA COSTA, KINGS, MARIN, MERCED, NAPA, SACRAMENTO, SAN BENITO, SAN FRANCISCO, SAN JOAQUIN, SAN MATEO, SANTA CLARA, SANTA CRUZ, SOLANO, STANISLAUS, SUTTER, YOLO, AND YUBA COUNTIES

AREA 2 - MODOC COUNTY

THE REMAINING COUNTIES ARE SPLIT BETWEEN AREA 1 AND AREA 2 AS NOTED BELOW:

ALPINE COUNTY:
    Area 1: Northernmost part
    Area 2: Remainder

CALAVERAS COUNTY:

https://beta.sam.gov/wage-determination/CA20200007/0?index=wd&la_active=true&date_filter_index=0&date_rad_selection=date&wdType=dbr&... 10/45
Area 1: Except Eastern part
Area 2: Eastern part

COLUSA COUNTY:
Area 1: Eastern part
Area 2: Remainder

DELRINO COUNTY:
Area 1: Extreme Southwestern corner
Area 2: Remainder

ELDORADO COUNTY:
Area 1: North Central part
Area 2: Remainder

FRESNO COUNTY
Area 1: Except Eastern part
Area 2: Eastern part

GLENN COUNTY:
Area 1: Eastern part
Area 2: Remainder

HUMBOLDT COUNTY:
Area 1: Except Eastern and Southwestern parts
Area 2: Remainder

LAKE COUNTY:
Area 1: Southern part
Area 2: Remainder

LASSEN COUNTY:
Area 1: Western part along the Southern portion of border
with Shasta County
Area 2: Remainder

MADERA COUNTY
Area 1: Remainder
Area 2: Eastern part

MARIPOSA COUNTY
Area 1: Remainder
Area 2: Eastern part

MENDOCINO COUNTY:
Area 1: Central and Southeastern parts
Area 2: Remainder

MONTEREY COUNTY
Area 1: Remainder
Area 2: Southwestern part

NEVADA COUNTY:
Area 1: All but the Northern portion along the border of
Sierra County
Area 2: Remainder

PLACER COUNTY:
Area 1: All but the Central portion
Area 2: Remainder

PLUMAS COUNTY:
Area 1: Western portion
Area 2: Remainder
SHASTA COUNTY:
Area 1: All but the Northeastern corner
Area 2: Remainder

SIERRA COUNTY:
Area 1: Western part
Area 2: Remainder

SISKIYOU COUNTY:
Area 1: Central part
Area 2: Remainder

SONOMA COUNTY:
Area 1: All but the Northwestern corner
Area 2: Remainder

TEHAMA COUNTY:
Area 1: All but the Western border with mendocino & Trinity Counties
Area 2: Remainder

TRINITY COUNTY:
Area 1: East Central part and the Northeaster border with Shasta County
Area 2: Remainder

TULARE COUNTY;
Area 1: Remainder
Area 2: Eastern part

TUOLUMNE COUNTY:
Area 1: Remainder
Area 2: Eastern Part

* IRON0377-002 07/01/2019

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<tr>
<th>Rates</th>
<th>Fringes</th>
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<tbody>
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</table>

PREMIUM PAY:

$6.00 additional per hour at the following locations:

China Lake Naval Test Station, Chocolate Mountains Naval Reserve-Niland,
Edwards AFB, Fort Irwin Military Station, Fort Irwin Training Center-Goldstone, San Clemente Island, San Nicholas Island,

$4.00 additional per hour at the following locations:

Army Defense Language Institute - Monterey, Fallon Air Base,
Naval Post Graduate School - Monterey, Yermo Marine Corps Logistics Center

$2.00 additional per hour at the following locations:

Port Hueneme, Port Mugu, U.S. Coast Guard Station - Two Rock
LAB00067-001 07/01/2019

AREA ""A"" - MARIN COUNTY

AREA ""B"" - ALPINE, AMADOR, BUTTE COLUSA EL DORADO, GLENN, LASSEN, MODOC, NAPA, NEVADA, PLACER, PLUMAS, SACRAMENTO, SHASTA, SIERRA, SISKIYOU, SOLANO, SONOMA, SUTTER, TEHAMA, TRINITY, YOLO, AND YUBA COUNTIES

<table>
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<td>Marin County $ 31.81</td>
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LAB00067-005 06/27/2017

AREA ""A"" - ALAMEDA, CONTRA COSTA, MARIN, SAN FRANCISCO, SAN MATEO AND SANTA CLARA COUNTIES

AREA ""B"" - ALPINE, AMADOR, BUTTE, CALAVERAS, COLUSA, DEL NORTE, EL DORADO, FRESNO, GLENN, HUMBOLDT, KINGS, LAKE, LASSEN, MADERA, MARIPOSA, MENDOCINO, MERCEDES, MODOC, MONTEREY, NAPA, NEVADA, PLACER, PLUMAS, SACRAMENTO, SAN BENITO, SAN JOAQUIN, SANTA CRUZ, SIERRA, SHASTA, SISKIYOU, SOLANO, SONOMA, STANISLAUS, TEHAMA, TRINITY, TULARE, TUOLUMNE, YOLO AND YOUDA COUNTIES

<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
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<tbody>
<tr>
<td>LABORER (TRAFFIC CONTROL/LANE CLOSURE)</td>
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<tr>
<td>Escort Driver, Flag Person $ 29.54</td>
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<tr>
<td>Area A. .................$ 29.54</td>
<td>22.17</td>
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<tr>
<td>Area B. .................$ 28.54</td>
<td>22.17</td>
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<tr>
<td>Traffic Control Person I $ 29.84</td>
<td>22.17</td>
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<td>Area A. .................$ 29.84</td>
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<tr>
<td>Area B. .................$ 28.84</td>
<td>22.17</td>
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<tr>
<td>Traffic Control Person II $ 27.34</td>
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<td>Area A. .................$ 27.34</td>
<td>22.17</td>
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<tr>
<td>Area B. .................$ 26.34</td>
<td>22.17</td>
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</table>

TRAFFIC CONTROL PERSON I: Layout of traffic control, crash cushions, construction area and roadside signage.

TRAFFIC CONTROL PERSON II: Installation and removal of temporary/permanent signs, markers, delineators and crash cushions.

LAB008185-002 07/01/2018

ALPINE, AMADOR, BUTTE, COLUSA, EL DORADO, GLENN, LASSEN, MODOC, NEVADA, PLACER, PLUMAS, SACRAMENTO, SHASTA, SIERRA, SISKIYOU, SUTTER, TEHAMA, TRINITY, YOLO AND YUBA COUNTIES

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LABORER

https://beta.sam.gov/wage-determination/CA20200007/0?index=wd&ia_active=true&date_filter_index=0&date_rad_selection=date&wdType=dbra&c... 22/45
Mason Tender-Brick.............$ 31.20 22.20

LAB00185-005 06/25/2018

ALPINE, AMADOR, BUTTE, COLUSA, EL DORADO, GLENN, LASSEN, MODOC,
NEVADA, PLACER, PLUMAS, SACRAMENTO, SHASTA, SIERRA, SISKIYOU,
SUTTER, TEHAMA, TRINITY, YOLO AND YUBA COUNTIES

<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
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<tbody>
<tr>
<td>Tunnel and Shaft Laborers:</td>
<td></td>
</tr>
<tr>
<td>GROUP 1.................$ 37.82 24.11</td>
<td></td>
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<tr>
<td>GROUP 2....................$ 37.59 24.11</td>
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<tr>
<td>GROUP 3....................$ 37.34 24.11</td>
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<td>GROUP 4....................$ 36.89 24.11</td>
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<td>GROUP 5....................$ 36.35 24.11</td>
<td></td>
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<tr>
<td>Shotcrete Specialist........$ 38.34 24.11</td>
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</tbody>
</table>

TUNNEL AND SHAFT CLASSIFICATIONS

GROUP 1: Diamond driller; Groundmen; Gunite and shotcrete nozzlemen

GROUP 2: Rodmen; Shaft work & raise (below actual or excavated ground level)

GROUP 3: Bit grinder; Blaster, driller, powdermen, heading; Cherry pickermen - where car is lifted; Concrete finisher in tunnel; Concrete screedmen; Grout pumpmen and potmen; Gunite & shotcrete gunman & potman; Headermen; High pressure nozzleman; Miner - tunnel, including top and bottom man on shaft and raise work; Nipper; Nozzleman on slick line; Sandblaster - potman, Robotic Shotcrete Placer, Segment Erector, Tunnel Muck Hauler, Steel Form raiser and setter; Timberman, retimberman (wood or steel or substitute materials therefore); Tugger (for tunnel laborer work); Cable tender; Chuck tender; Powderman - primer house

GROUP 4: Vibrator operator, pavement breaker; Bull gang - muckers, trackmen; Concrete crew - includes rodding and spreading, Dumpmen (any method)

GROUP 5: Grout crew; Reboundman; Swamper/ Brakeman

LABORER (CONSTRUCTION CRAFT)
LABORERS - AREA B:

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<th>Rates</th>
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<tr>
<td>Construction Specialist</td>
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<tr>
<td>Group.........................$ 30.49 23.20</td>
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</tr>
<tr>
<td>GROUP 1.........................$ 29.79 23.20</td>
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<tr>
<td>GROUP 1-a.......................$ 30.01 23.20</td>
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<tr>
<td>GROUP 1-c.......................$ 30.01 23.20</td>
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<tr>
<td>GROUP 1-e.......................$ 30.34 23.20</td>
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<tr>
<td>GROUP 1-f.......................$ 30.37 23.20</td>
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<tr>
<td>GROUP 2.........................$ 29.64 23.20</td>
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</tr>
</tbody>
</table>

Page 380 of 580
GROUP 3...............................$ 29.54       23.20
GROUP 4...............................$ 23.23       23.20

See groups 1-b and 1-d under laborer classifications.

LABORER (GARDENERS, HORTICULTURAL & LANDSCAPE
LABORERS - AREA B:)
(1) New Construction...........$ 29.54       23.20
(2) Establishment Warranty
   Period.........................$ 23.23       23.20

LABORER (GUNITE - AREA B:)
GROUP 1...............................$ 29.75       22.51
GROUP 2...............................$ 29.25       22.51
GROUP 3...............................$ 28.66       22.51
GROUP 4...............................$ 28.54       22.51

LABORPR (WRFCNTNG - AREA R:)
GROUP 1...............................$ 29.79       23.20
GROUP 2...............................$ 29.64       23.20

FOOTNOTES:
Laborers working off or with or from bos'n chairs, swinging
scaffolds, belts shall receive $0.25 per hour above the
applicable wage rate. This shall not apply to workers
entitled to receive the wage rate set forth in Group 1-a
below.

LABORER CLASSIFICATIONS

CONSTRUCTION SPECIALIST GROUP: Asphalt ironer and raker;
Chainsaw; Laser beam in connection with laborers' work;
Cast-in-place manhole form setter; Pressure pipelayer;
Davis trencher - 300 or similar type (and all small
trenchers); Blaster; Diamond driller; Multiple unit drill;
Hydraulic drill

GROUP 1: Asphalt spreader boxes (all types); Barko, Wacker
and similar type tampers; Buggymobile; Caulker, binder,
pipewrapper, conduit layer, plastic pipelayer; Certified
hazardous waste worker including Lead Abatement;
Compactors of all types; Concrete and magnesite mixer, 1/2
yd. and under; Concrete pen work; Concrete sanders; Concrete
saw; Cribber and/or shoring; Cut granite curb setter;
Dri-pak-it machine; Faller, logloader and bucker; Form
raiser, slip forms; Green cutter; Headerboard, Hubsetter,
aligner, by any method; High pressure blow pipe (1-1/2" or
over, 100 lbs. pressure/over); Hydro seeder and similar
type; Jackhammer operator; Jacking of pipe over 12 inches;
Jackson and similar type compactor; Kettle tender, pot and
worker applying asphalt, lay-kold, creosote, lime, caustic
and similar type materials (applying means applying
dipping or handling of such materials); Lagging, sheeting,
whaling, bracing, trenchjacking, lagging hammer; Magnesite,
epoxyresin, fiberglass, mastic worker (wet or dry); No
joint pipe and stripping of same, including repair of
voids; Pavement breaker and spader, including tool grinder;
Perma curb; Pipelayer (including grade checking in
connection with pipelaying); Precast-manhole setter;
Pressure pipe tester; Post hole digger, air, gas and
electric; Power broom sweeper; Power tampers of all types
(except as shown in Group 2); Ram fot gun and stud gun;
Riprap stonepaver and rock-slinger, including placing of
sacked concrete and/or sand (wet or dry) and gabions and
similar type; Rotary scarifier or multiple head concrete

https://beta.sam.gov/wage-determination/CA20200007/0?index=wd&ia_active=true&date_filter_index=0&date_rad_selection=date&wdType=dbra&c... 24/45
chipping scarifier; Roto and Ditch Witch; Rototiller; Sandblaster, pot, gun, nozzle operators; Signalling and rigging; Tank cleaner; Tree climber; Turbo blaster; Vibrascredder, bull float in connection with laborers' work; Vibrator; Hazardous waste worker (lead removal); Asbestos and mold removal worker.

GROUP 1-a: Joy drill model TWM-2A; Gardner-Denver model DH143 and similar type drills; Track driller; Jack leg driller; Wagon driller; Mechanical drillers, all types regardless of type or method of power; Mechanical pipe layers, all types regardless of type or method of power; Blaster and powder; All work of loading, placing and blasting of all powder and explosives of whatever type regardless of method used for such loading and placing; High scalers (including drilling of same); Tree topper; Bit grinder.

GROUP 1-b: Sewer cleaners shall receive $4.00 per day above Group 1 wage rates. "Sewer cleaner" means any worker who handles or comes in contact with raw sewage in small diameter sewers. Those who work inside recently active, large diameter sewers, and all recently active sewer manholes shall receive $5.00 per day above Group 1 wage rates.

GROUP 1-c: Burning and welding in connection with laborers' work; Synthetic thermoplastics and similar type welding.

GROUP 1-d: Maintenance and repair track and road beds. All employees performing work covered herein shall receive $.25 per hour above their regular rate for all work performed on underground structures not specifically covered herein. This paragraph shall not be construed to apply to work below ground level in open cut. It shall apply to cut and cover work of subway construction after the temporary cover has been placed.

GROUP 1-e: Work on and/or in bell hole footings and shafts thereof, and work on and in deep footings. (A deep footing is a hole 15 feet or more in depth.) In the event the depth of the footing is unknown at the commencement of excavation, and the final depth exceeds 15 feet, the deep footing wage rate would apply to all employees for each and every day worked on or in the excavation of the footing from the date of inception.

GROUP 1-f: Wire winding machine in connection with guniting or shotcrete.

GROUP 2: Asphalt shoveler; Cement dumper and handling dry cement or gypsum; Choke-setter and rigger (clearing work); Concrete bucket dumper and chute; Concrete chipping and grinding; Concrete laborer (wet or dry); Driller tender, chuck tender, nipper; Guinea chaser (stake), grout crew; High pressure nozzle, adductor; Hydraulic monitor (over 100 lbs. pressure); Loading and unloading, carrying and hauling of all rods and materials for use in reinforcing concrete construction; Pittsburgh chipper and similar type brush shredders; Sloper; Single foot, hand-held, pneumatic tamper; All pneumatic, air, gas and electric tools not listed in Groups 1 through 1-f; Jacking of pipe - under 12 inches.

GROUP 3: Construction laborers, including bridge and general laborer; Dump, load spotter; Flag person; Fire watcher;
Fence erector; Guardrail erector; Gardener, horticultural and landscape laborer; Jetting; Limber, brush loader and piler; Pavement marker (button setter); Maintenance, repair track and road beds; Streetcar and railroad construction track laborer; Temporary air and water lines, Victaulic or similar; Tool room attendant (jobsite only)

GROUP 4: Final clean-up work of debris, grounds and building including but not limited to: street cleaner; cleaning and washing windows; brick cleaner (jobsite only); material cleaner (jobsite only). The classification "material cleaner" is to be utilized under the following conditions:
A: at demolition site for the salvage of the material.
B: at the conclusion of a job where the material is to be salvaged and stockpiled to be reused on another job.
C: for the cleaning of salvage material at the jobsite or temporary jobsite yard.

The material cleaner classification should not be used in the performance of "form stripping, cleaning and oiling and moving to the next point of erection".

GUNITE LABORER CLASSIFICATIONS

GROUP 1: Structural Nozzleman

GROUP 2: Nozzleman, Gunman, Potman, Groundman

GROUP 3: Reboundman

GROUP 4: Gunite laborer

WRECKING WORK LABORER CLASSIFICATIONS

GROUP 1: Skilled wrecker (removing and salvaging of sash, windows and materials)

GROUP 2: Semi-skilled wrecker (salvaging of other building materials)

LAB00185-008 07/01/2018

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<td>Plasterer tender...</td>
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Work on a swing stage scaffold: $1.00 per hour additional.

LAB00261-002 06/25/2018

MARIN COUNTY

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<td>$30.54</td>
</tr>
<tr>
<td>Traffic Control Person I...</td>
<td>$30.84</td>
</tr>
<tr>
<td>Traffic Control Person II...</td>
<td>$28.34</td>
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</table>
TRAFFIC CONTROL PERSON I: Layout of traffic control, crash cushions, construction area and roadside signage.

TRAFFIC CONTROL PERSON II: Installation and removal of temporary/permanent signs, markers, delineators and crash cushions.

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<tbody>
<tr>
<td>GROUP 1.$ 37.82</td>
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<td>GROUP 2.$ 37.59</td>
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<tr>
<td>Shotcrete Specialist</td>
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TUNNEL AND SHAFT CLASSIFICATIONS

GROUP 1: Diamond driller; Groundmen; Gunite and shotcrete nozzlemen

GROUP 2: Rodmen; Shaft work & raise (below actual or excavated ground level)

GROUP 3: Bit grinder; Blaster, driller, powdermen, heading; Cherry pickermen - where car is lifted; Concrete finisher in tunnel; Concrete screedman; Grout pumpman and potman; Gunite & shotcrete gunman & potman; Headermen; High pressure nozzleman; Miner - tunnel, including top and bottom man on shaft and raise work; Nipper; Nozzleman on silt line; Sandblaster - potman; Robotic Shotcrete Placer; Segment Erector, Tunnel Muck Hauler, Steel Form raiser and setter; Timberman, retimberman (wood or steel or substitute materials therefore); Tugger (for tunnel laborer work); Cable tender; Chuck tender; Powderman - primer house

GROUP 4: Vibrator operator, pavement breaker; Bull gang muckers, trackmen; Concrete crew - includes rodding and spreading, Dumpmen (any method)

GROUP 5: Grout crew; Reboundman; Swumper/ Brakeman

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<td>MARIN AND NAPA COUNTIES</td>
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https://beta.sam.gov/wage-determination/CA20200007/0?index=wd&la_active=true&date_filter_index=0&date_rad_selection=date&wdType=dbra&c... 27/45
LABORERS - AREA A:

Construction Specialist
- Group......................... $31.49 23.20
- GROUP 1....................... $30.79 23.20
- GROUP 1-a..................... $31.01 23.20
- GROUP 1-c..................... $30.84 23.20
- GROUP 1-e..................... $31.34 23.20
- GROUP 1-f..................... $31.37 23.20
- GROUP 2....................... $30.64 23.20
- GROUP 3....................... $30.54 23.20
- GROUP 4....................... $24.23 23.20

See groups 1-b and 1-d under laborer classifications.

LABORER (GARDENERS, HORTICULTURAL & LANDSCAPE)

LABORERS - AREA A:

(1) New Construction........ $30.54 23.20
(2) Establishment Warranty Period...................... $24.23 23.20

LABORER (GUNITE - AREA A):

- GROUP 1....................... $30.75 22.31
- GROUP 2....................... $30.25 22.31
- GROUP 3....................... $29.66 22.31
- GROUP 4....................... $29.54 22.31

LABORER (WRECKING - AREA A):

- GROUP 1....................... $30.79 23.20
- GROUP 2....................... $30.64 23.20

FOOTNOTES:

Laborers working off or with or from bos'n chairs, swinging scaffolds, belts shall receive $.025 per hour above the applicable wage rate. This shall not apply to workers entitled to receive the wage rate set forth in Group 1-a below.

LABORER CLASSIFICATIONS

CONSTRUCTION SPECIALIST GROUP: Asphalt ironer and raker; Chainsaw; Laser beam in connection with laborers work; Cast-in-place manhole form setter; Pressure pipelayer; Davis trencher 300 or similar type (and all small trenchers); Blaster; Diamond driller; Multiple unit drill; Hydraulic drill

GROUP 1: Asphalt spreader boxes (all types); Barko, Wacker and similar type tampers; Buggymobile; Caulker, bender, pipewrapper, conduit layer, plastic pipelayer; Certified hazardous waste worker including Leade Abatement; Compactors of all types; Concrete and magnesite mixer, 1/2 yd. and under; Concrete pan work; Concrete sander; Concrete saw; Cribber and/or shoring; Cut granite curb setter; Dri-pak-it machine; Faller, logloader and bucker; Form raiser, slip forms; Green cutter; Headerboard, Hubsetter, aligner, by any method; High pressure blow pipe (1-1/2" or over, 100 lbs. pressure/over); Hydro seeder and similar type; Jackhammer operator; Jacking of pipe over 12 inches; Jackson and similar type compactor; Kettle tender, pot and worker applying asphalt, lay-kold, creosote, lime, caustic and similar type materials (applying means applying, dipping or handling of such materials); Lagging, sheathing, whaling, bracing, trenching, lagging hammer; Magnesite, epoxyresin, fiberglass, mastic worker (wet or dry); No joint pipe and stripping of same, including repair of
voids; Pavement breaker and spader, including tool grinder; Perma curb; Pipelayer (including grade checking in connection with pipelaying); Precast-manhole setter; Pressure pipe tester; Post hole digger, air, gas and electric; Power broom sweeper; Power tampers of all types (except as shown in Group 2); Ram set gun and stud gun; Riprap stonepaver and rock-slinger, including placing of sacked concrete and/or sand (wet or dry) and gabions and similar type; Rotary scarifier or multiple head concrete chipping scarifier; Roto and Ditch Witch; Rototiller; Sandblaster, pot, gun, muzzle operators, Signalling and rigging; Tank cleaner; Tree climber; Turbo blaster; Vibrascreed, bull float in connection with laborers' work; Vibrator; Hazardous waste worker (lead removal); Asbestos and mold removal worker.

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of all rods and materials for use in reinforcing concrete construction; Pittsburgh chipper and similar type brush shredders; Sloper; Single foot, hand-held, pneumatic tamper; All pneumatic, air, gas and electric tools not listed in Groups 1 through 1-f; Jacking of pipe - under 12 inches

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GROUP 4: Final clean-up work of debris, grounds and building including but not limited to: street cleaner; cleaning and washing windows; brick cleaner (jobsite only); material cleaner (jobsite only). The classification "material cleaner" is to be utilized under the following conditions: A: at demolition site for the salvage of the material. B: at the conclusion of a job where the material is to be salvaged and stocked to be reused on another job. C: for the cleaning of salvage material at the jobsite or temporary jobsite yard.

The material cleaner classification should not be used in the performance of "form stripping, cleaning and oiling and moving to the next point of erection".

GUNITE LABORER CLASSIFICATIONS

GROUP 1: Structural Nozzleman

GROUP 2: Nozzleman, Gunman, Potman, Groundman

GROUP 3: Reboundman

GROUP 4: Gunite laborer

WRECKING WORK LABORER CLASSIFICATIONS

GROUP 1: Skilled wrecker (removing and salvaging of sash, windows and materials)

GROUP 2: Semi-skilled wrecker (salvaging of other building materials)

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<tr>
<td>Work on a swing stage scaffold: $1.00 per hour additional.</td>
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NAPA, SOLANO, AND SONOMA, COUNTIES
LABORER (TRAFFIC CONTROL/LANE CLOSURE)

- Escort Driver, Flag Person... $ 29.54  23.65
- Traffic Control Person I... $ 29.84  23.65
- Traffic Control Person II... $ 27.34  23.65

TRAFFIC CONTROL PERSON I: Layout of traffic control, crash cushions, construction area and roadside signage.

TRAFFIC CONTROL PERSON II: Installation and removal of temporary/permanent signs, markers, delineators and crash cushions.

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LAB00324-008 06/25/2018

NAPA, SOLANO, AND SONOMA COUNTIES

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<td>GROUP 2................................... $ 37.59</td>
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</tbody>
</table>

TUNNEL AND SHAFT CLASSIFICATIONS

GROUP 1: Diamond driller; Groundmen; Gunite and shotcrete nozzlemen

GROUP 2: Rodmen; Shaft work & raise (below actual or excavated ground level)

GROUP 3: Bit grinder; Blaster, driller, powdermen, heading; Cherry pickermen - where car is lifted; Concrete finisher in tunnel; Concrete screedman; Grout pumpman and potman; Gunite & shotcrete gunman & potman; Headermen; High pressure nozzleman; Miner - tunnel, including top and bottom man on shaft and raise work; Nipper; Nozzleman on slick line; Sandblaster - potman, Robotic Shotcrete Placer, Segment Erector, Tunnel Muck Hauler, Steel Form raiser and setter; Timberman, retimberman (wood or steel or substitute materials therefore); Tugger (for tunnel laborer work); Cable tender; Chuck tender; Powderman - primer house

GROUP 4: Vibrator operator, pavement breaker; Bull gang - muckers, trackmen; Concrete crew - includes rodding and spreading, Dumpmen (any method)

GROUP 5: Grout crew; Reboundman; Swamper/ Brakeman

---

LAB00324-010 07/01/2018

SOLANO AND SONOMA COUNTIES

<table>
<thead>
<tr>
<th>Laborer Description</th>
<th>Rates</th>
<th>Fringes</th>
</tr>
</thead>
</table>

LAVORER
LABORER (CONSTRUCTION CRAFT)
LABORERS - AREA B:)

Construction Specialist
Group..........................$ 30.49  23.20
GROUP 1..........................$ 29.79  23.20
GROUP 1-a.........................$ 30.01  23.20
GROUP 1-c.........................$ 29.84  23.20
GROUP 1-e.........................$ 30.34  23.20
GROUP 1-f.........................$ 29.37  23.20
GROUP 2..........................$ 29.64  23.20
GROUP 3..........................$ 29.54  23.20
GROUP 4..........................$ 23.23  23.20

See groups 1-b and 1-d under laborer classifications.

LABORER (GARDENERS,
HORTICULTURAL & LANDSCAPE)
LABORERS - AREA B:)

(1) New Construction............$ 29.54  23.20
(2) Establishment Warranty
   Period.........................$ 23.23  23.20

LABORER (GUNITE - AREA B:)
GROUP 1..........................$ 29.75  22.31
GROUP 2..........................$ 29.25  22.31
GROUP 3..........................$ 28.66  22.31
GROUP 4..........................$ 28.54  22.31

LABORER (WRECKING - AREA B:)
GROUP 1..........................$ 29.79  23.20
GROUP 2..........................$ 29.64  23.20

FOOTNOTES:
Laborers working off or with or from bos'n chairs, swinging
scaffolds, belts shall receive $0.25 per hour above the
applicable wage rate. This shall not apply to workers
entitled to receive the wage rate set forth in Group 1-a
below.

LABORER CLASSIFICATIONS

CONSTRUCTION SPECIALIST GROUP: Asphalt ironer and raker;
Chainsaw; Laser beam in connection with laborers' work;
Cast-in-place manhole form setter; Pressure pipelayer;
Davis trencher - 300 or similar type (and all small
trenchers); Blaster; Diamond driller; Multiple unit drill;
Hydraulic drill

GROUP 1: Asphalt spreader boxes (all types); Barko, Wacker
and similar type tampers; Buggymobile; Caulker, bander,
pipewrapper, conduit layer, plastic pipelayer; Certified
hazardous waste worker including Leade Abatement;
Compactors of all types; Concrete and magnesite mixer, 1/2
yd. and under; Concrete pan work; Concrete sander; Concrete
saw; Cribber and/or shoring; Cut granite curb setter;
Dri-pak-it machine; Faller, logloader and buckers; Form
raiser, slip forms; Green cutter; Headerboard, Hubsetter,
aligner, by any method; High pressure blow pipe (1-1/2" or
over, 100 lbs. pressure/over); Hydro seeder and similar type; Jackhammer operator; Jacking of pipe over 12 inches; Jackson and similar type compactor; Kettle tender, pot and worker applying asphalt, lay-kold, creosote, lime, caustic and similar type materials (applying means applying, dipping or handling of such materials); Lagging, sheeting, whaling, bracing, trenchjacking, lagging hammer; Magnesite, epoxyresin, fiberglass, mastic worker (wet or dry); No joint pipe and stripping of same, including repair of voids; Pavement breaker and spader, including tool grinder; Penney curb; Pipelayer (including grade checking in connection with pipelaying); Precast-manhole setter; Pressure pipe tester; Post hole digger, air, gas and electric; Power broom sweeper; Power tampers of all types (except as shown in Group 2); Ram set gun and stud gun; Riprap stonemason and rock-slinger, including placing of sacked concrete and/or sand (wet or dry) and gabions and similar type; Rotary scarifier or multiple head concrete chopping scarifier; Roto and Ditch Witch; Rototiller; Sandblaster, pot, gun, nozzle operators; Signalling and rigging; Tank cleaner; Tree climber; Turbo blaster; Vibrascreed, bull float in connection with laborers' work; Vibrator; Hazardous waste worker (lead removal); Asbestos and mold removal worker

GROUP 1-a: Joy drill model TW1-2A; Gardner-Denver model DH143 and similar type drills; Track driller; Jack leg driller; Wagon driller; Mechanical drillers, all types regardless of type or method of power; Mechanical pipe layers, all types regardless of type or method of power; Driller and powder; All work of loading, placing and blasting of all powder and explosives of whatever type regardless of method used for such loading and placing; High scalers (including drilling of same); Tree topper; Bit grinder

GROUP 1-b: Sewer cleaners shall receive $4.00 per day above Group 1 wage rates. "Sewer cleaner" means any worker who handles or comes in contact with raw sewage in small diameter sewers. Those who work inside recently active, large diameter sewers, and all recently active sewer manholes shall receive $5.00 per day above Group 1 wage rates.

GROUP 1-c: Burning and welding in connection with laborers' work; Synthetic thermoplastics and similar type welding

GROUP 1-d: Maintenance and repair track and road beds. All employees performing work covered herein shall receive $.25 per hour above their regular rate for all work performed on underground structures not specifically covered herein. This paragraph shall not be construed to apply to work below ground level in open cut. It shall apply to cut and cover work of subway construction after the temporary cover has been placed.

GROUP 1-e: Work on and/or in bell hole footings and shafts thereof, and work on and in deep footings. (A deep footing is a hole 15 feet or more in depth.) In the event the depth of the footing is unknown at the commencement of excavation, and the final depth exceeds 15 feet, the deep footing wage rate would apply to all employees for each and every day worked on or in the excavation of the footing from the date of inception.

GROUP 1-f: Wire winding machine in connection with guniting
or shot crete

GROUP 2: Asphalt shoveler; Cement dumper and handling dry cement or gypsum; Choke-setter and rigger (clearing work); Concrete bucket dumper and chute; Concrete chipping and grinding; Concrete laborer (wet or dry); Driller tender, chuck tender, nipper; Guinea chaser (stake), grout crew; High pressure nozzle, adductor; Hydraulic monitor (over 100 lbs. pressure); Loading and unloading, carrying and hauling of all rods and materials for use in reinforcing concrete construction; Pittsburgh chippers and similar type brush shredders; Sloper; Single foot, hand-held, pneumatic tamper; All pneumatic, air, gas and electric tools not listed in Groups 1 through 1-f; Jacking of pipe - under 12 inches

GROUP 3: Construction laborers, including bridge and general laborer; Dump, load spotter; Flag person; Fire watcher; Fence erector; Guardrail erector; Gardener, horticultural and landscape laborer; Jetting; Limber, brush loader and piler; Pavement marker (button setter); Maintenance, repair track and road beds; Streetcar and railroad construction track laborer; Temporary air and water lines, Victaulic or similar; Tool room attendant (jobsite only)

GROUP 4: Final clean-up work of debris, grounds and building including but not limited to: street cleaner; cleaning and washing windows; brick cleaner (jobsite only); material cleaner (jobsite only). The classification "material cleaner" is to be utilized under the following conditions:
A: at demolition site for the salvage of the material.
B: at the conclusion of a job where the material is to be salvaged and stocked to be reused on another job.
C: for the cleaning of salvage material at the jobsite or temporary jobsite yard.

The material cleaner classification should not be used in the performance of "form stripping, cleaning and oiling and moving to the next point of erection".

---------------------------------------------

GUNITE LABORER CLASSIFICATIONS

GROUP 1: Structural Nozzelman

GROUP 2: Nozzelman, Gunman, Potman, Groundman

GROUP 2: Reboundman

GROUP 4: Gunite laborer

---------------------------------------------

WRECKING WORK LABORER CLASSIFICATIONS

GROUP 1: Skilled wrecker (removing and salvaging of sash, windows and materials)

GROUP 2: Semi-skilled wrecker (salvaging of other building materials)

---------------------------------------------
Plasterer tender.........................$ 32.02  

Work on a swing stage scaffold: $1.00 per hour additional.

PAIN0016-004 01/01/2019
MARIN, NAPA, SOLANO & SONOMA COUNTIES

Painters:...............................$ 42.67  

PREMUTUMS:
EXOTIC MATERIALS - $0.75 additional per hour.
SPRAY WORK: - $0.50 additional per hour.
INDUSTRIAL PAINTING - $0.25 additional per hour
[Work on industrial buildings used for the manufacture and processing of goods for sale or service; steel construction (bridges), stacks, towers, tanks, and similar structures]

HIGH WORK:
over 50 feet - $2.00 per hour additional
100 to 180 feet - $4.00 per hour additional
over 180 feet - $6.00 per hour additional

PAIN0016-005 01/01/2018

ALPINE, BUTTE, COLUSA, EL DORADO (west of the Sierra Nevada Mountains), GLENN, LASSEN (west of Hwy. 395, excluding Honey Lake); MARIN, MODOC, NAPA, NEVADA (west of the Sierra Nevada Mountains), PLACER (west of the Sierra Nevada Mountains). PLumas, SACRAMENTO, SHASTA, SIERRA (west of the Sierra Nevada Mountains), SISKIYOU, SOLANO, SONOMA, SUTTER, TEHAMA, TRINITY, YOLO AND YUBA COUNTIES

DRYWALL FINISHER/TAPER............$ 41.03  

PAIN0016-007 01/01/2019

ALPINE, AMADOR, BUTTE, COLUSA, EL DORADO (west of the Sierra Nevada Mountains), GLENN, LASSEN (west of Highway 395, excluding Honey Lake), MODOC, NEVADA (west of the Sierra Nevada Mountains), PLACER (west of the Sierra Nevada Mountains). PLumas, SACRAMENTO, SHASTA, SIERRA (west of the Sierra Nevada Mountains), SISKIYOU, SUTTER, TEHAMA, TRINITY, YOLO & YUBA COUNTIES

Painters:...............................$ 33.68  

SPRAY/SANDBLAST: $0.50 additional per hour.
EXOTIC MATERIALS: $1.00 additional per hour.
HIGH TIME: Over 50 ft above ground or water level $2.00 additional per hour. 100 to 180 ft above ground or water level $4.00 additional per hour. Over 180 ft above ground or water level $6.00 additional per hour.
<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
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<tbody>
<tr>
<td>SOFT FLOOR LAYER.................$ 48.60</td>
<td>27.43</td>
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</tbody>
</table>

**PAIN0169-004 01/01/2019**

MARIN, NAPA & SONOMA COUNTIES; SOLANO COUNTY (west of a line defined as follows: Hwy. 80 corridor beginning at the City of Fairfield, including Travis Air Force Base and Suisun City; going north of Manakas Corner Rd., continue north on Suisun Valley Rd. to the Napa County line; Hwy. 80 corridor south on Grizzly Island Rd. to the Grizzly Island Management area)

<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
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</thead>
<tbody>
<tr>
<td>GLAZIER..................................$ 50.03</td>
<td>28.19</td>
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* **PAIN0567-001 07/01/2018**

EL DORADO COUNTY (east of the Sierra Nevada Mountains); LASSEN COUNTY (east of Highway 395, beginning at Stacey and including Honey Lake); NEVADA COUNTY (east of the Sierra Nevada Mountains); PLACER COUNTY (east of the Sierra Nevada Mountains); AND SIERRA COUNTY (east of the Sierra Nevada Mountains)

<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
</tr>
</thead>
</table>
| Painters:  
  Brush and Roller.................$ 26.70  | 13.04   |
  Spray Painter & Paperhanger.$ 28.04  | 13.04   |

PREMIUMS:
- Special Coatings (Brush), and Sandblasting = $0.50/hr
- Special Coatings (Spray), and Steeplejack = $1.00/hr
- Special Coating Spray Steel = $1.25/hr
- Swing Stage = $2.00/hr

*A special coating is a coating that requires the mixing of 2 or more products.*

**PAIN0567-007 07/01/2018**

EL DORADO COUNTY (east of the Sierra Nevada Mountains); LASSEN COUNTY (east of Highway 395, beginning at Stacey and including Honey Lake); NEVADA COUNTY (east of the Sierra Nevada Mountains); PLACER COUNTY (east of the Sierra Nevada Mountains) AND SIERRA COUNTY (east of the Sierra Nevada Mountains)

<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOFT FLOOR LAYER.................$ 29.10</td>
<td>13.14</td>
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</tbody>
</table>

**PAIN0567-010 07/01/2018**

EL DORADO COUNTY (east of the Sierra Nevada Mountains); LASSEN
COUNTY (east of Highway 395, beginning at Stacey and including Honey Lake); NEVADA COUNTY (east of the Sierra Nevada Mountains); PLACER COUNTY (east of the Sierra Nevada Mountains); AND SIERRA COUNTY (east of the Sierra Nevada Mountains)

<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
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</thead>
<tbody>
<tr>
<td>Drywall</td>
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</tr>
<tr>
<td>(1) Taper</td>
<td>$31.82</td>
</tr>
<tr>
<td>(2) Steeplejack - Taper, over 40 ft with open space below</td>
<td>$33.32</td>
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<tr>
<td>PAIN0767-004 01/01/2019</td>
<td></td>
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</tbody>
</table>

ALPINE, AMADOR, BUTTE, COLUSA, EL DORADO, GLENN, LASSEN, MODOC, NEVADA, PLACER, PLUMAS, SACRAMENTO, SHASTA, SIERRA, SISKIYOU, SOLANO (Remainder), SUTTER, TEHAMA, TRINITY, YOLO, YUBA

<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
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</thead>
<tbody>
<tr>
<td>GLAZIER</td>
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<tr>
<td>$38.47</td>
<td>28.40</td>
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<tr>
<td>PAIN1176-001 01/01/2017</td>
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</table>

HIGHWAY IMPROVEMENT

<table>
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<th>Rates</th>
<th>Fringes</th>
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<tbody>
<tr>
<td>Parking Lot Striping/Highway Marking:</td>
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</tr>
<tr>
<td>GROUP 1</td>
<td>$34.41</td>
</tr>
<tr>
<td>GROUP 2</td>
<td>$29.25</td>
</tr>
<tr>
<td>GROUP 3</td>
<td>$29.59</td>
</tr>
</tbody>
</table>

CLASSIFICATIONS

GROUP 1: Striper: Layout and application of painted traffic stripes and marking; hot thermo plastic; tape, traffic stripes and markings

GROUP 2: Gamecourt & Playground Installer

GROUP 3: Protective Coating, Pavement Sealing

PAIN1237-001 10/01/2018

ALPINE; COLUSA; EL DORADO (west of the Sierra Nevada Mountains); GLENN; LASSEN (west of Highway 395, beginning at Stacey and including Honey Lake); MODOC; NEVADA (west of the Sierra Nevada Mountains); PLACER (west of the Sierra Nevada Mountains); PLUMAS; SACRAMENTO; SHASTA; SIERRA (west of the Sierra Nevada Mountains); SISKIYOU; SUTTER; TEHAMA; TRINITY;
<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
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</thead>
<tbody>
<tr>
<td>$36.81</td>
<td>21.51</td>
</tr>
</tbody>
</table>

**PLAS0300-003 07/01/2018**

**PLASTERER**
- AREA 295: Alpine, Amador, Butte, Colusa, El Dorado, Glenn, Lassen, Modoc, Nevada, Placer, Plumas, Sacramento, Shasta, Sierra, Siskiyou, Solano, Sutter, Tehama, Trinity, Yolo & Yuba Counties $32.70 31.68
- AREA 355: Marin $36.73 31.68
- AREA 355: Napa & Sonoma Counties $32.70 31.68

**PLAS0300-005 07/01/2017**

**CEMENT MASON/CONCRETE FINISHER** $33.49 23.67

* PLUM0038-002 07/01/2019

**MARIN AND SONOMA COUNTIES**

**PLUMBER (Plumber, Steamfitter, Refrigeration Fitter)**
- (1) Work on wooden frame structures 5 stories or less excluding high-rise buildings and commercial work such as hospitals, prisons, hotels, schools, casinos, wastewater treatment plants, and research facilities as well as refrigeration pipework, service and repair work - MARKET RECOVERY RATE $74.16 43.59
- (2) All other work - NEW CONSTRUCTION RATE $74.16 43.59

* PLUM0038-006 07/01/2019

**MARIN & SONOMA COUNTIES**

**Landscape/Irrigation Fitter** (Underground/Utility Fitter) $63.04 31.48

**PLUM0228-001 07/01/2019**
BUTTE, COLUSA, GLENN, LASSEN, MODOC, PLUMAS, SHASTA, SIERRA, 
SISKIYOU, SUTTER, TEHAMA, TRINITY & YUBA COUNTIES

<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
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</thead>
<tbody>
<tr>
<td>PLUMBER..........................$ 40.50</td>
<td>32.64</td>
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</table>

* PLUM0343-001 07/01/2019

NAPA AND SOLANO COUNTIES

<table>
<thead>
<tr>
<th>Rates</th>
<th>Fringes</th>
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<tbody>
<tr>
<td>PLUMBER/PIPEFITTER</td>
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</tr>
<tr>
<td>Light Commercial.........$ 30.85</td>
<td>20.40</td>
</tr>
<tr>
<td>All Other Work.............$ 52.50</td>
<td>37.37</td>
</tr>
</tbody>
</table>

DEFINITION OF LIGHT COMMERCIAL:
Work shall include strip shopping centers, office buildings, schools and other commercial structures which the total plumbing bid does not exceed Two Hundred and Fifty Thousand ($250,000) and the total heating and cooling does not exceed Two Hundred Fifty Thousand ($250,000); or Any projects bid in phases shall not qualify unless the total project is less than Two Hundred Fifty Thousand ($250,000) for the plumbing bid; and Two Hundred Fifty Thousand ($250,000) for the heating and cooling bid. Excluded are hospitals, jails, institutions and industrial projects, regardless size of the project.

FOOTNOTES: While fitting galvanized material: $.75 per hour additional. Work from trusses, temporary staging, unguarded structures 35' from the ground or water: $.75 per hour additional. Work from swinging scaffolds, boatswains chairs or similar devices: $.75 per hour additional.

PLUM0350-001 08/01/2019

EL DORADO COUNTY (Lake Tahoe area only); NEVADA COUNTY (Lake Tahoe area only); AND PLACER COUNTY (Lake Tahoe area only)

<table>
<thead>
<tr>
<th>Rates</th>
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<tbody>
<tr>
<td>PLUMBER/PIPEFITTER.............$ 45.84</td>
<td>13.81</td>
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PLUM0355-001 07/01/2019

ALPINE, AMADOR, BUTTE, COLUSA, EL DORADO, GLENN, LASSEN, MODOC, 
NAPA, NEVADA, PLACER, PLUMAS, SACRAMENTO, SHASTA, SIERRA, 
SISKIYOU, SOLANO, SUTTER, TEHAMA, TRINITY, YOLO, AND YUBA 
COUNTIES

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<thead>
<tr>
<th>Rates</th>
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<tr>
<td>Underground Utility Worker/landscape Fitter $ 29.00</td>
<td>15.80</td>
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PLUM0442-003 07/01/2019

AMADOR (South of San Joaquin River) and ALPINE COUNTIES
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<tbody>
<tr>
<td>PLUMBER................</td>
<td>$ 43.50</td>
<td>30.89</td>
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<td>PLUM0447-001 07/01/2018</td>
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<tr>
<td>AMADOR (north of San Joaquin River), EL DORADO (excluding Lake Tahoe area), NEVADA (excluding Lake Tahoe area); PLACER (excluding Lake Tahoe area), SACRAMENTO AND YOLO COUNTIES</td>
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<tr>
<td>PLUMBER/PTPFTTFR</td>
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<tr>
<td>Journeymen............</td>
<td>$ 49.67</td>
<td>25.00</td>
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<tr>
<td>Light Commercial Work</td>
<td>$ 36.23</td>
<td>17.72</td>
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<td>* ROOF0081-006 08/01/2019</td>
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<td>MARIN, NAPA, SOLANO AND SONOMA COUNTIES</td>
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<tr>
<td>Roofer..................</td>
<td>$ 40.10</td>
<td>18.88</td>
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<td>* ROOF0081-007 08/01/2019</td>
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<tr>
<td>Roofer..................</td>
<td>$ 38.28</td>
<td>18.56</td>
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<td>* SFCA0483-003 07/29/2019</td>
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<td>MARIN, NAPA, SOLANO AND SONOMA COUNTIES</td>
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<tr>
<td>SPRINKLER FITTER (Fire Sprinklers)...........</td>
<td>$ 65.52</td>
<td>32.67</td>
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<td>* SFCA0669-003 04/01/2019</td>
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<td>ALPINE, BUTTE, COLUSA, EL DORADO, GLENN, LASSEN, MODOC, NEVADA, PLACER, PLUMAS, SACRAMENTO, SHASTA, SIERRA, SISKIYOU, SUTTER, TEHAMA, TRINITY, YOLO AND YUBA COUNTIES</td>
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<tr>
<td>SPRINKLER FITTER........</td>
<td>$ 40.77</td>
<td>23.93</td>
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<td>SHEE0104-006 07/02/2018</td>
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<tr>
<td>MARIN, NAPA, SOLANO SONOMA &amp; TRINITY COUNTIES</td>
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</tr>
<tr>
<td>Sheet Metal Worker Mechanical Contracts</td>
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https://beta.sam.gov/wage-determination/CA20200007/0?index=wd&is_active=true&date_filter_index=0&date_rad_selection=date&wdType=dbra&oc...
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<th>Rates</th>
<th>Fringes</th>
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<tbody>
<tr>
<td>SHEE0104-009 07/01/2018</td>
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<td></td>
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<tr>
<td>AMADOR, COLUSA, EL DORADO, NEVADA, PLACER, SACRAMENTO, SUTTER, YOLO AND YUBA COUNTIES</td>
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<tr>
<td>SHEET METAL WORKER</td>
<td>$ 42.91</td>
<td>34.45</td>
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<tr>
<td>SHEE0104-010 07/01/2018</td>
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<td>AIPINE COUNTY</td>
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<td>BUTTE, COLUSA, EL DORADO, GLENN, LASSEN, MODOC, NEVADA, PLACER, PLUMAS, SACRAMENTO, SHASTA, SIERRA, SISKIYOU, SUTTER, TEHAMA, YOLO AND YUBA COUNTIES</td>
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<td>Sheet Metal Worker (Metal decking and siding only)</td>
<td>$ 39.03</td>
<td>32.70</td>
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<td>MARIN, NAPA, SOLANO, SONOMA AND TRINITY COUNTIES</td>
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<td>$ 37.53</td>
<td>32.10</td>
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<tr>
<td>SHEE0104 015 07/01/2018</td>
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<tr>
<td>SHEET METAL WORKER</td>
<td>Mechanical Jobs $200,000 &amp; under</td>
<td>$ 32.21</td>
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<td>Mechanical Jobs over $200,000</td>
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<td>TEAM0094-001 07/01/2018</td>
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<td>Truck drivers:</td>
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<tr>
<td>GROUP 1</td>
<td>$ 31.68</td>
<td>27.86</td>
</tr>
<tr>
<td>GROUP 2</td>
<td>$ 31.98</td>
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<tr>
<td>GROUP 3</td>
<td>$ 32.28</td>
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</tr>
<tr>
<td>GROUP 4</td>
<td>$ 32.63</td>
<td>27.86</td>
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FOOTNOTES:
Articulated dump truck; Bulk cement spreader (with or without auger); Dumpcrete truck; Skid truck (debris box); Dry pre-batch concrete mix trucks; Dumpster or similar type; Slurry truck: Use dump truck yardage rate.
Heater planer; Asphalt burner; Scarifier burner; Industrial lift truck (mechanical tailgate); Utility and clean-up truck: Use appropriate rate for the power unit or the equipment utilized.

TRUCK DRIVER CLASSIFICATIONS

GROUP 1: Dump trucks, under 6 yds.; Single unit flat rack (2-axle unit); Nipper truck (when flat rack truck is used appropriate flat rack shall apply); Concrete pump truck (when flat rack truck is used appropriate flat rack shall apply); Concrete pump machine; Fork lift and lift jitneys; Fuel and/or grease truck driver or fuel person; Snow buggy; Steam cleaning; Bus or person haul driver; Escort or pilot car driver; Pickup truck; Teamster oiler/greaser and/or serviceperson; Hook tender (including loading and unloading); Team driver; Tool room attendant (refineries)

GROUP 2: Dump trucks, 6 yds. and under 8 yds.; Transit mixers, through 10 yds.; Water trucks, under 7,000 gals.; Jetting trucks, under 7,000 gals.; Single-unit flat rack (3-axle unit); Highbed heavy duty transport; Scissor truck; Rubber-tired muck car (not self-loaded); Rubber-tired truck jumbo; Winch truck and "A" frame drivers; Combination winch truck with hoist; Road oil truck or bootperson; Buggymobile: Ross, Hyster and similar straddle carriers; Small rubber-tired tractor

GROUP 3: Dump trucks, 8 yds. and including 24 yds.; Transit mixers, over 10 yds.; Water trucks, 7,000 gals. and over; Jetting trucks, 7,000 gals. and over; Vacuum trucks under 7500 gals. Trucks towing tilt bed or flat bed pull trailers; Lowbed heavy duty transport; Heavy duty transport tiller person; Self-propelled street sweeper with self contained refuse bin; Boom truck hydro lift or Swedish type extension or retracting crane; P.B. or similar type self-loading truck; Tire repairperson; Combination bootperson and road oiler; Dry distribution truck (A bootperson when employed on such equipment, shall receive the rate specified for the classification of road oil trucks or bootperson); Ammonia nitrate distributor, driver and mixer; Snow Go and/or plow

GROUP 4: Dump trucks, over 25 yds. and under 65 yds.; Water pulls - DW 10's, 20's, 21's and other similar equipment when pulling Aqua/pak or water tank trailers; Helicopter pilots (when transporting men and materials); Lowbed Heavy Duty Transport up to including 7 axles; DW10's, 20's, 21's and other similar Cat type, Terra Cobra, LeTourneau Pulls, Tournorocker, Euclid and similar type equipment when pulling fuel and/or grease tank trailers or other miscellaneous trailers; Vacuum Trucks 7500 gals and over and truck repairman

GROUP 5: Dump trucks, 65 yds. and over; Holland hauler; Low bed Heavy Duty Transport over 7 axles
WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than "SU" or "UAVG" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers
Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

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WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

* an existing published wage determination
* a survey underlying a wage determination
* a Wage and Hour Division letter setting forth a position on
  a wage determination matter
* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

END OF GENERAL DECISION
SECTION NO. 15 - LABOR COMPLIANCE
LABOR COMPLIANCE HANDBOOK 2018
Introduction

Contractors who are awarded contracts on City of Sacramento public works projects are subject to State and Federal Laws and regulations governing the payment and reporting of wages, the use of apprentices, and other applicable labor standards provisions. The City of Sacramento monitors prime contractors’ and subcontractors’ compliance with labor standards by collecting certified payroll records; conducting on-site interviews of works at the construction sites; when appropriate, audits of contractors’ records; and engaging in other activities, as necessary, to ensure labor compliance. Labor Compliance officers make preconstruction presentations to inform contractors of their obligations to comply with labor standards provisions.

Electronic web submittals of labor compliance documents are effective as of May 1, 2007. Each contractor and every lower tier sub-contractor are required to submit labor compliance documents electronically at the discretion of the City of Sacramento utilizing LCPtracker.net.
Labor Compliance Requirements
(Prevailing Wage, SB 854, AB219, Etc.)

SB 854, a budget trailer bill that was signed into law on June 20, 2014, and became effective immediately, made several significant changes to laws pertaining to the administration and enforcement of prevailing wage requirements by the Department of Industrial Relations (DIR). Among other things, SB 854 established a new public works contractor registration program to replace prior Compliance Monitoring Unit (CMU) and Labor Compliance Program (LCP) requirements for bond-funded and other specified public works projects. The fees collected through this new program will be used to fund all of DIR's public works activities, including compliance monitoring and enforcement, the determination of prevailing wage rates, public works coverage determinations, and hearing enforcement appeals.

Labor Code Section 1725.5 (enacted by SB 854) requires all contractors bidding on this contract, all subcontractors listed in a bid for this contract, and any contractor or subcontractor performing any work under this contract, to be currently registered with the California Department of Industrial Relations (DIR), as specified in Labor Code Section 1725.5. Labor Code Section 1771.1 (enacted by SB 854) provides that a contractor or subcontractor shall not be qualified to bid on, be listed in a bid proposal (subject to the requirements of Section 4104 of the Public Contract Code), or engage in the performance of any contract for public work, unless currently registered and qualified to perform public work pursuant to Labor Code Section 1725.5. Every bidding contractor shall list the contractor's current DIR registration number, and the current DIR registration number of all listed subcontractors, on the Subcontractor and Local Business Enterprise (LBE) Participation Verification Form included in the contractor's bid.

SB 854 – Important Information for Contractors

- **No contractor or subcontractor** may be listed on a bid proposal for a public works project (submitted on or after March 1, 2015) **unless registered** with the Department of Industrial Relations pursuant to Labor Code section 1725.5 [with limited exceptions from this requirement for bid purposes only under Labor Code section 1771.1 (a)].

- No contractor or subcontractor may be awarded a contract for public work on a public works project (awarded on or after April 1, 2015) unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5.

- This project is subject to compliance monitoring and enforcement by the Department of Industrial Relations.

- The prime contractor must post job site notices prescribed by regulation. (See 8 Calif. Code Reg. §16451(d) for the notice that previously was required for projects monitored by the CMU (Compliance Monitoring Unit).)

**Essentials of public works contractor registration program:**

- Contractors will be subject to a registration and annual renewal fee that has been set initially at $400. The fee is non-refundable and applies to all contractors and subcontractors who intend to bid or perform work on public works projects (as defined under the Labor Code).

- Contractors will apply and pay the fee online and must meet minimum qualifications to be registered as eligible to bid and work on public works projects:

- Must have workers' compensation coverage for any employees and only use subcontractors who are registered public works contractors.
• Must have Contractors State License Board license if applicable to trade.
• Must have no delinquent unpaid wage or penalty assessments owed to any employee or enforcement agency.
• Must not be under federal or state debarment.
• Must not be in prior violation of this registration requirement once it becomes effective. However, for the first violation in a 12 month period, a contractor may still qualify for registration by paying an additional penalty.
• The registration fee is not related to any project. It is more like a license that enables the registrant to bid on and perform public works.
• Additionally, all contractors and subcontractors must furnish electronic certified payroll records directly to the Labor Commissioner (aka Division of Labor Standards Enforcement). The phase-in timetable for this requirement can be found on the following link at http://www.dir.ca.gov/Public-Works/SB854.html (also for all SB854 related information).

Concrete Delivery Legislation (AB 219) Fact Sheet
Assembly Bill 219 (Daly, Chapter 739, Statutes of 2015) adds Section 1720.9 to the Labor Code. This bill expands the definition of public works under the California Prevailing Wage Law to include:
...the hauling and delivery of ready-mixed concrete to carry out a public works, contract, with respect to contracts involving any state agency, including the California State University and the University of California, or any political subdivision of the state.
Section 1720.9 defines the term ready-mixed concrete and specifies that the rate of pay shall be the current prevailing wage "for the geographical area in which the factory or batching plant is located" as determined by the Department of Industrial Relations. The statute also requires a written agreement between the party hauling or delivering ready-mixed concrete and the party that engaged its services. The agreement must specify compliance with the Prevailing Wage Law.

Finally, section 1720.0 requires that the hauling or delivery company provide certified payroll records under Labor Code section 1776(a) to the party that engaged its services and to the general contractor within five working days after the employee has been paid, accompanied by a written time record. The time record must be certified by each driver for the performance of job duties.

The amendments do not apply to public works contracts that were advertised for bid or awarded prior to July 1, 2016.

Registration with the Department of Industrial Relations

Ready-mix haulers and companies that deliver ready-mixed concrete for public works projects are considered subcontractors under Labor Code section 1722.1 and must register with the Department of Industrial Relations as specified in Labor Code section 1725.5. A Contractors State License Board license is not required to register with DIR or to work on a public works project (contractors working in a trade that is subject to licensing by the CSLB will still be subject to CSLB licensing requirements).

Suppliers and other trucking companies will need to provide a Public Utilities Commission license number, U.S. Department of Transportation license number, and any other state or federal license, if one is required for your business. If none of these apply, the supplier can register with DIR by selecting other in the license type menu and entering N/A for not applicable in the license number field.

Prevailing Wage Requirements (except from Sacramento City Code 3.60.180)
Every contract for any construction project, as defined in Section 1782 of the California Labor Code, to be performed within the state at the expense of the city, or paid out of city moneys, whether such work be done directly under contract award, or indirectly by or under subcontract, sub partnership, day labor, station work, piece work, or by any other arrangement whatsoever, must provide, in addition to other provisions required by law, that any person performing labor in the state in execution of such contracts, subcontract, sub partnership, day labor, station labor, piece work or any other arrangement shall be paid not less than the
general prevailing rate of wages in private employment for similar work in the city; provided, however, that the foregoing provisions as to payment of the general prevailing rate of wages shall not apply to: (a) contracts for any construction project originally awarded or executed in an amount of twenty-five thousand dollars ($25,000.00) or less; (b) contracts for any alteration, demolition, repair, or maintenance work originally awarded or executed in an amount of fifteen thousand dollars ($15,000) or less; (c) materials for which no manufacturing plant exists in the city; or (d) standard materials or commodities carried in stock by dealers or manufacturers generally.

The general prevailing rate of wages shall be the general prevailing rate of wages for the area in which the city is located as determined by the director of the Department of Industrial Relations pursuant to Labor Code Section 1773. Every contract for which the payment of the general prevailing rate of wages is required shall provide that the determination of the director of the Department of Industrial Relations in force at the time the notice to bidders is published with respect to the general prevailing rate of wages in private employment in the city for similar work shall be binding upon the parties any contract awarded as a result of such notice.

For more details, please refer to the applicable statutes and regulations regarding the payment of prevailing wages and General Prevailing Wage Determination(s) including the footnotes. Such information is available on the Department of Industrial Relations’ website at http://www.dir.ca.gov/. Frequently asked questions can be found on the following link at: http://www.dir.ca.gov/OPRL/FAQ_PrevailingWage.html.

These new requirements will apply to all public works that are subject to the prevailing wage requirements of the Labor Code, without regard to funding source. Please refer to http://www.dir.ca.gov/ for general requirements by DIR (Department of Industrial Relations in the State of California). For additional information about public works requirements, please visit the public works section at http://www.dir.ca.gov/Public-Works/PublicWorks.html.
California Wage Determinations

Website
The State Wage Determination can be found on-line by accessing the following web site: http://www.dir.ca.gov/OPRL/pwd/

For additional information you may contact: Division of Labor Statistics and Research (DLSR) (415) 703-4774.

The State Wage Determinations list the basic crafts, (operating engineers, carpenters, laborers, etc.) by location; most sub trades (electricians, plumbers, etc.) are by county (In the event of multiple funding sources, a comparison of the state and federal determination must be made, and the higher wage rate must be applied.)

Issue Date:
The State Wage Determinations are published twice a year; approximately February 22 and August 22, to reflect updated wage increases incurred. Please be cognizant that increase dates do vary.

Single Asterisk *(Good for life of project)*
Example: Expiration Date of Determination: June 27, 2008*

*Effective until superseded by new determination issued by the Director of Industrial Relations. Contact Division of Labor Statistics and Research (415) 703-4774 for new rates after 10 days from the expiration date if no subsequent determination is issued.

Double Asterisks **(Indicates expiration date & a wage or fringe benefit increase)**
Example: Expiration Date of Determination: June 30, 2009**

**The rate to be paid for work performed after this date has been determined. If work will extend past this expiration date, the new rate must be paid and should be incorporated in contracts entered into now. Contact Division of Labor Statistics and Research (415) 703-4774.

On-Site Posting Required
All contractors must post a copy of the applicable State Wage Determinations and Labor Compliance Contacts sheet provided at the preconstruction meeting.
Federal Wage Determinations

Web Site
The Federal Wage Determinations can be found on-line by accessing the following web site:

The Davis-Bacon Act (DBA) requires the payment of prevailing wage rates (which are determined by the US Department of Labor) to all workers employed in the execution of the contract on federally funded construction projects. In the event of multiple funding sources, a comparison of the state and federal determination must be made, and the higher wage rate must be applied. https://www.dol.gov/compliance/guide/dbra.htm

Publication Date
There is no set date that the Federal Wage Determination is published; it is modified as needed.

Good for the Life of the Project
The applicable Federal Wage Determination is good for the life of the project.

On-Site Posting Required
All contractors must post a copy of the applicable Federal Wage Determination and the WH-1321 “Employee Rights Under the Davis-Bacon Act” poster that is provided at the preconstruction meeting.
https://www.dol.gov/compliance/guide/dbra.htm
Sole Proprietors

Are sole proprietor contractors required by law to pay prevailing wages and submit eCPRs for work done on public works projects?
Sole proprietorship and general partnership companies without employees are required to pay themselves prevailing wages, in accordance with Labor Code section 1774 that states that all workers must be paid prevailing wages. If the worker is also the employer and sole proprietor for whom no payroll exists, the owner should submit eCPRs and must show that that the rate of pay is at or above the required prevailing wage. (The courts have ruled that sole owner companies cannot pay less than the prevailing wages. As such, any contract that is entered into that undercuts the labor component is unlawful.)

What if the company hasn’t hired any workers yet, so the owner does all the work? What if the company has employees, but the owner/partner/corporate officer does some work as well?
In the first situation, treat the business as if it were a sole proprietorship and do as explained in the following question. In the second situation, you must first determine if the work done by the owner/partner/officer falls into the category of prevailing wage work. If the work was prevailing wage work, then do as listed below assuming the worker is the owner. In the situations that the worker is the corporate officer who receive a fixed salary, you should annualize the salary to calculate the hourly rate. In the events that the hourly rate is less than the prevailing wage rate, the worker should receive the additional payment to meet the required amount.

As a sole proprietor, how do I calculate my pay rate?
You should divide your profit before labor costs (i.e., the amount of contract less fixed cost and variable costs) by the total number of hours you worked on the public works site. Please note that if your labor profit goes below the prevailing wage rate, you could be subject to public works penalties for failing to pay the correct prevailing wage rate. You need to attest under penalty of perjury that you are at or above the required prevailing wage rate for the craft/classification worked.

Do I have to issue myself a paycheck?
An individual who performs skilled or unskilled labor on a public works project is entitled to be paid the applicable prevailing wage rate for the time the work is performed, regardless of whether the individual holds a particular status such as partner, owner, owner-operator, independent contractor or sole proprietor, or holds a particular title with the employer such as president, vice-president, superintendent or foreman. In accordance with Labor Code 1774, the contractor to whom the contract is awarded, and any subcontractor under him, shall pay not less than the specified prevailing rates of wages to all workmen employed in the execution of the contract.

What happens if I lose money on the job?
The courts have held that sole proprietors cannot undercut labor costs in order to get a public works project. This would be out of compliance with public works laws and would give an unfair advantage to businesses that have no employees.

What if I do not have employees or a FEIN number?
You will need to use your social security number in order to report your hours in the DIR's online eCPR system.

Am I subject to payroll taxes?
No, as a sole proprietor, you are not subject to payroll taxes, but you may be subject to income taxes.

Do I have to employ apprentices?
Generally speaking, yes. However, the exemptions to employ apprentices are listed below.

- Labor Code 1777.5 does not apply to general contractors whose contract is under $30,000
- When the craft or trade is not apprenticeable.
- When the contractor holds a sole proprietor license and no workers were employed by the contractor.
  In other words, the contractor performed the entire work from start to finish and worked alone.
• When the project is a federal project and the funding of the project does not contain any city, county, and/or state monies unless the project is administered by a state agency in which case the apprenticeship requirements apply.
• When the project is a private project not covered by the definition of public works as found in Labor Code section 1720.
Prevailing Wage Questions and Answers Regarding Off-Site Hauling

Q. Will the new Driver (On/Off Hauling To/From Construction Site) rates replace the Teamster (construction site) rates and the superseded six county Driver determinations as the default rate for off the site hauling as of March 4, 2009?

A. Yes. In the absence of trucking rates for other types of materials or for different types of trucks involving On/Off Hauling To/From the Construction site, the off-the-site rates apply. For covered work that was advertised for bid prior to March 4, 2009, the on-site rate will apply except for the six counties that had an off-site rate (Labor Code section 1773.6). The new On/Off Hauling rates are not applicable to projects advertised for bids prior to March 4, 2009.

The date of notice or call for bids also referred to as the bid advertisement date is defined as the date the first notice inviting bids was published in a newspaper of general circulation or promulgated in a legally sufficient manner which results in a contract being awarded with or without competitive bidding (Title 8, California Code of Regulations section 16000).

Q. Will the Driver (On/Off Hauling To/From Construction Site) rates apply to truck drivers operating trucks in addition to dump trucks and ready-mix trucks?

A. Yes. The dump truck rates at their minimums will apply to other types of trucks performing off-the-site hauling (to or from a construction site) except for ready mix trucks which have their own prevailing wage determination.

Q. Will the Driver (On/Off Hauling To/From Construction Site) rates apply to drivers when they perform hauling to or away from the job site while working for an on-site contractor?

A. Yes. The off-site hauling rate(s) is the minimum rate of pay required for this type of work. In support of the off-site rate being paid, contractors are required to maintain documentation including the hours worked for each worker regarding the craft, classification or type of work being performed.

Q. What rate (the on-site or the off-site) applies to drivers who pick up materials from a dedicated material supply source that was specified in the construction contract documents?

A. This question will require the Director to determine coverage of the work and the appropriate rate to be paid based on specific facts and circumstances such as the actual location of the dedicated facility and other relevant information. At this time, it is not possible to answer this question in a general manner.

Q. Will the Driver (On/Off Hauling To/From Construction Site) rate(s) apply to drivers who haul refuse from the construction site?

A. Yes. The Driver (On/Off Hauling To/From Construction Site) rate(s) will apply to drivers who haul refuse away from the construction site. See Labor Code section 1720.3; PW Case 2006-017, Off-hauling of Contaminated and Clean Soil - Long Beach Unified School District, Avalon School, (6/26/07), (explaining that off-haul of contaminated soil to a land fill is covered public work under Labor Code section 1720.3); Public Works Case No. 2008-027, On-Haul and Off-Haul to and from the Friendly Senior Center-Abatement and Demolition Project-City of Morgan Hill (10/31/08).

Q. What rate (on-site or off-site) applies to a driver who performs off-the-site hauling for:

- 1. Material supply company?
- 2. For-hire trucking company?
- 3. A construction company who also operates a legally separate and independent material supply company and does not interchange the drivers between the two companies?

A. The answer to all the questions above is the off-site rate but only when the work itself is covered.
Q. What rate (the on-site or the off-site) applies when a driver who works for a construction company who uses the same driver to haul material on the site of construction and also perform work off the site that is covered by prevailing wages?

A. The off-site rate will be the minimum rate of pay for workers employed by contractors and subcontractors when those workers are performing covered off-site work. The on-site activities by these workers would require the on-site rate.

Q. Do the dump truck rates apply to all trucks delivering or picking up materials to and from a construction site irrespective of their size or tonnage, or the material being hauled or the type of truck?

A. The answer is yes until rates for these other types of trucks or sizes or types of material differentials are published as prevailing. Note that mixer truck has its own prevailing wage rate.

Q. What location determines the appropriate rate of pay (job site, material supply source, off-the-site delivery point, employer’s off-the-site yard or shop, etc.)?

A. The geographic location of the covered job site determines the county or area rate to be applied.

Q. Does the geographic location of the job site prevail when the driver drives through different counties with different rates?

A. Yes. The rate is determined by the location of the job site.

Q. What Prevailing Wage Rate applies when the driver picks up material from a covered job site in one county and delivers it to another covered job site that has a different county rate?

A. The employer should pay the off-site rate required by the job site where the public works construction contract requires the removal of the material (originating site) to be delivered to the second covered site.

Q. Is an employee driving for an intrastate or interstate trucking company entitled to prevailing wages when performing covered work?

A. Yes. Such drivers are subject to all the prevailing wage requirements including the overtime rates. The Prevailing Wage determinations set forth the overtime rates and requirements but only when the work itself is deemed to be covered. Wage and hour exemptions that may be otherwise applicable are not available for covered public works.

Q. May an employer pay more than the indicated health & welfare, pension, vacation & holiday rates and other such employer payments?

A. Yes, the employer may pay higher rates. The prevailing wage rates are minimums. The employer may pay lower benefit rates than indicated on the determination and transfer the difference to the basic hourly rate. In no case can the total compensation be less than the total hourly rate which includes the total of the basic hourly rate and the employer payments (Labor Code sections 1771 and 1774). There are two caveats: (1) The employer may not pay less than the specified published basic hourly rate (the wage rate), (2) The other employer payments must be legitimate meaning that they must be irrevocably paid to third person or trustee pursuant to a plan, fund or program for the benefit of the employee (Labor Code section 1773.1).

http://www.dir.ca.gov/OPRL/FAQ_Hauling.html
Apprentice Requirements for Public Work Projects

California Labor Code Section 1777.5 requires all public works contractors and subcontractors to:

1. Submit contract award information (DAS140)
2. Employ registered apprentices (DAS142)
3. Make training fund contributions (CAC2)

Submit contract award information (DAS140)

If you are a contractor already approved to train apprentices (a member of a DAS recognized Apprenticeship Committee):

"Contractors who are already approved to train apprentices must provide contract award information to the apprenticeship committee for each applicable apprenticeable craft or trade that has approved the contractor in the area of the site the of the public works project." The Contract Award Information must be in writing and submitted to the applicable committee(s) within 10 days of the date of the prime or subcontract but in no event later than the first day the contractor has workers employed on the public works project. You may use form DAS 140 for this purpose. This is simply a notification of award; it is not automatically a request for dispatch of a registered apprentice. All notice of awards must be in writing and sent by first class mail, fax or email. Proof of submission is required by the City of Sacramento (certified mail receipt, fax receipt or e-mail receipt.)

If you are not already approved to train by an Apprenticeship Committee:

Contractors not already approved to train apprentices must submit Contract Award Information (DAS 140) to every apprenticeship program in the geographic area of the public works project, for each craft you intend to employ on the project. You can determine which apprenticeship programs are approved in specific geographic locations by clicking on the following link:
http://www.dir.ca.gov/databases/das/pwaddrstart.asp

The Contract Award Information must be in writing and submitted to the applicable committee(s) within 10 days of the date of the prime or subcontract but in no event later than the first day the contractor has workers employed on the public works project. This is simply a notification of award; it is not automatically a request for dispatch of a registered apprentice.

Request and Employ registered apprentices (DAS142)

Ratio: A contractor on a public works project must employ one (1) hour of apprentice work for every five (5) hours performed by a journeyman. Title 8 California Code of Regulations, Section 230.1. for each separate craft at the end of a project. Please check the DAS Important notices to determine if any exemptions exist for your craft or trade. http://www.dir.ca.gov/DAS/PublicWorksForms.htm

Can I mix and match crafts to reach the minimum ratio?
No. The minimum ratio requirement is per each individual craft and only includes straight time hours.

Do overtime hours count toward the minimum ratio?
No, only straight time hours count. Be careful not to confuse premium pay with overtime pay.

What is the maximum number of apprentices I can use on a Public Works Project?
It depends on which box you have checked on your DAS 140. If you checked box 1 or 2 and fall under the regulations set forth in a specific program’s standards, then you are allowed to use the maximum ratio set forth in those Standards. If you have checked box 3 and agreed to be governed by the regulations set forth by the California Apprenticeship Council, then the minimum and maximum ratio is the same: 1 apprentice hour
for every 5 journeyman hours totaled at the end of the project.

I am a contractor who is approved to train by an approved program and am covered by their Standards, or I am a contractor who has agreed to be covered by a program’s Standards for a single project. How do I know what the Standards allow for that program’s maximum apprentice ratios? You can ask the program for a copy of their Standards or a copy of the language in Article XV which covers ratios. Or you can call the DAS office nearest the location for that program and request the same.

All contractors must request dispatch of an apprentice from an apprenticeship program (for each apprenticeable craft or trade) by giving the program actual notice of at least 1/2 hours (excluding Saturdays, Sundays and Holidays) before the date on which apprentices are required. A DAS 142 form is provided for this purpose. All requests for dispatch must be in writing and sent by first class mail, fax or email. Proof of submission is required by the City of Sacramento (certified mail receipt, fax receipt or read receipt.)

Contractors who do not receive a sufficient number of apprentices from their initial request, must request dispatch apprentices from all other apprenticeship committees, if more than one exists in the area of the public works project.

To determine which apprenticeship programs are approved for your craft or trade in a specific geographic location:

1. Contact the DAS District office whose assigned geographic areas of responsibility cover the county/ies in which the public works project is located.
2. Visit Apprenticeship Programs Information Guide - Public Works Search

http://www.dir.ca.gov/Databases/das/pwaddrstart.asp
Make Training Fund Contributions (CAC2)

Contractors who are awarded public works jobs must make training fund contributions in the amount established in the prevailing wage rate publication for journeymen and apprentices. This nominal fee contributes to the assurance that new apprentices coming into the craft will be guaranteed the highest level of training and as skilled craftsmen retire, the trade will survive.

Contractors who contribute to an apprenticeship program are entitled to a full credit in the amount of those contributions. Contractors who do not contribute to an apprenticeship program must submit their contributions to the California Apprenticeship Council, P. O. Box 511283, Los Angeles, California 90051-7838.

Training fund contributions to the Council are due and payable on the 15th day of the month for work performed during the preceding month. The contribution should be paid by check and be accompanied be a completed CAC2 Form that contains the following information:

1. The name, address and telephone number of the contractor making the contribution.
2. The contractor's license number.
3. The name and address of the public agency that awarded the contract.
4. The jobsite location, including the county where the work was performed.
5. The contract or project number.
6. The time period covered by the enclosed contributions.
7. The contribution rate and total hours worked by apprenticeable occupation.
8. The name of the program(s) that provide apprentices, if any.
9. The number of apprentice hours worked, by apprenticeable occupation and by program.

Payment of Training Fund Contributions must be sent to the California Apprenticeship Council (address below) (CAC) if the contractor is not signatory to an apprenticeship committee. The CAC will then distribute the funds to the proper apprenticeship committees. However, the CAC IS NOT AN APPRENTICESHIP COMMITTEE and will not accept the DAS140 or DAS142 forms.

CaliforniaApprenticeshipCouncil(CAC)
P.O. Box511283
Los Angeles, CA 90051-7838

Questions: email daspublicworks@dir.ca.gov

Subject to change for most recent documentation please click on the following link:
http://www.dir.ca.gov/das/DASApprenticesOnPublicWorksSummaryOfRequirements.htm
Exemptions

What are the instances in which a contractor on a public works project is considered exempt from the requirements of LC 1777.5?

1. Labor Code 1777.5 does not apply to general contractors whose contract is under $30,000.
2. When the craft or trade is not apprenticeable.
3. When the contractor holds a sole proprietor license and no workers were employed by the contractor. In other words, the contractor performed the entire work from start to finish and worked alone.
4. When the project is a federal project and the funding of the project does not contain any city, county, and/or state monies unless the project is administered by a state agency in which case the apprenticeship requirements apply.
5. When the project is a private project not covered by the definition of public works as found in Labor Code section 1720.

What if I am exempt from the requirements of California Labor Code Section 1777.5 as my situation falls under one of the exemptions listed above? Do I still have to provide a "Notice of Contract Award" (DAS 140 form) to the applicable program?

You do not have to submit a "Notice of Contract Award". However, for purposes of letting the applicable program know of your exemption, you may, nevertheless, want to provide the form to the applicable program so they are aware of your exemption.

If I have an Individual Contractor Exemption granted by the Chief of DAS per Labor Code § 1777.5 (j), or § 1777.5(l), do I still need to send a DAS 140 to the appropriate programs?

Yes, you still need to submit a Notice of Contract Award Information (DAS 140) to the appropriate Program Committees. The Individual Contractor Exemptions and Program Committee exemptions pertain to the ratio of apprentices on a public works project and do not eliminate the DAS 140 requirement.

I am a small subcontractor and my job will take less than 40 hours. Am I exempt from hiring apprentices?

No, you must still submit a DAS 140 and 142. However, you may request apprentices in less than 8-hour increments. Important Notice: see changes in Code of Regulations section 230.1, regarding the employment of apprentices on Public Works.

Definition of a Registered Apprentice

An apprentice is someone who has signed an agreement with an employer, an approved apprenticeship program or program sponsor, and whose agreement is registered with the Division of Apprenticeship Standards (DAS). Only an approved apprenticeship program can provide a contractor with a registered apprentice on public works projects.

Other Questions & Answers:

Do programs that provide apprentices for public works projects provide workers compensation benefits for the apprentice they send out to jobs or is the responsibility of the contractor and/or subcontractor?

This responsibility lies with the contractor and/or subcontractor.

As a contractor who has been awarded a public works contract, and has my own employees, am I still required hiring registered apprentices?

Yes. Important Notice: see changes in Code of Regulations sections 230.1, regarding the employment of apprentices on Public Works.

I am a non-union contractor. Am I required to hire an apprentice?

Yes, you must request dispatch from all approved programs in the geographic area of the project.

Can I employ my friend, family, or my own employee who is still beginning to learn a particular trade, as
an apprentice?
No. The law requires that you employ only apprentices who are registered with an approved program. However, if your friend or your employee is a registered apprentice and has been dispatched to you by an approved apprenticeship program, yes you can.

What happens if I employed my friend who is not a registered apprentice and I paid him the journeyman rate?
You may employ your friend and pay him journey wages, but this does not affect the apprenticeship requirements.

What are the benefits and advantages to hiring a registered apprentice?

The benefits of hiring an apprentice registered in a state approved program are:
1. Lower pay rate than the journeyman pay rate.
2. Elimination of recruitment programs for workers who are already trained.
3. Creates a diversified and flexible workforce and larger pool of employees with specific skills.
4. Increases productivity; employees in a structured training program are motivated to achieve.
Employment of Apprentices *(additional information)*

Bidder is directed to the provisions in Sections 1777.5, 1777.6 and 1777.7 of the California Labor Code concerning the employment of apprentices by a Contractor and any subcontractor performing a public works Contract.

Labor Code section 1777.5 requires the Contractor or subcontractor employing tradesmen in any apprentice-able occupation to apply to the joint apprenticeship committee in the area of the site of the public works project and which administers the apprenticeship program for a certificate of approval. Contractor or subcontractor shall not be required to submit individual applications for approval to local joint apprenticeship committees provided they are already covered by the local apprenticeship standards. The ratio of apprentices to journeymen and contributions to funds to administer apprenticeship programs shall be determined by Section 1777.5 and the responsibility for compliance with that section for all apprentice-able occupations shall be with the General Contractor.

Labor Code section 1777.5 does not apply to Contracts of general contractors or to contracts of specialty contractors not bidding for work through a general or Prime Contractor, when the contracts of general contractors or those specialty contractors, involve less than Thirty Thousand Dollars ($30,000). This is the sum of the total contract amount not the individual contracts that are held between a prime contractor and their sub tiers. A contractor who willfully violates Labor Code section 1777.5 shall be denied the right to bid on or receive a public works contract for a period of up to one (1) year for the first violation, and for a period up to three (3) years for the second and subsequent violations, from the date the determination of noncompliance made by the Administrator of Apprenticeship becomes an order of the California Apprenticeship Council. Contractor shall also be subject to the payment of the civil penalty as provided in Labor Code section 1777.7. Interpretation and enforcement of said Sections 1777.5 and 1777.7 shall be in accordance with the rules and procedures of the California Apprenticeship Council.

*This information is provided as a guide. If there are any discrepancies between the language in this handbook and the specifications in the bid package for this project, the bid package shall prevail.*

For the most up to date and current apprenticeship information refer to the DIR website.
All Current and Apprenticeable Trades/Crafts Within Sacramento County

This list is subject to change.

Asbestos Worker, Heat and Frost Insulator  Parking and Highway Improvement (Striper)
Boilermaker-Blacksmith  Painter
Bricklayer, Stonemason  Plasterer
Carpenter – All Related Trades  Plaster Tender
Carpet, Linoleum and Resilient Floor Layer  Roofer
Cement Mason  Landscape/Irrigation Fitter
Drywall Installer/Lather (Carpenter)  Sprinkler Fitter (Fire Protection/Fire Control
Drywall Finisher (Painter)  Pile Driver Operating Engineer
Electrician, Inside Wireman  Pile Driver (Carpenter)
Electrical Utility Lineman  Parking and Highway Improvements Painter
Elevator Constructor  Plumber/Steamfitter
Field Surveyor Chainman/Rodman  Pipefitter
Chief of Party  Underground/Utility Pipefitter
Glazer  Metal Roofing System Installer
Electrician (Comm & System Installer)  Sheet Metal Worker
Electrician (Comm & System Tech, Cable Splicer)  Stator Re-winder
Iron Worker  Terrazzo Finisher
Laborer  Terrazzo Worker
Marble Finisher/ Marble Mason/ Marble Setter  Tile Setter
Millwright  Tile Finisher
Operating Engineer  Steel Erector & Fabricator
Operating Engineer (Dredger)  Tunnel/Underground (Operating Engineer)
Building Construction Inspector  Tunnel Worker (Laborer)
Operating Engineer (Landscape Construction)  Parking & Highway Improvement (Striper-Laborer)
Painter, Gauker and Cleaner  Brick tender
Acoustical Installer (Carpenter)  Scaffolding and Shoring Erector (Carpenter)
Hardwood Floor Layer (Carpenter)  Shingler (Carpenter)
Insulation Installer (Carpenter)  Communications & System Installer
Field Surveyor Instrument man  Taper
Roofer  Metal Deck and Siding

If using any of the listed crafts, you will be required to request an apprentice and pay into the apprentice-able craft training program that is applicable.

The website to see the latest list of apprenticeable trades is:
http://www.dir.ca.gov/oprl/pwappwage/ PWAppWageStart.asp
PRE-CONSTRUCTION
DOCUMENTS
NOTICE TO PROCEED
Project #PROJECT NUMBER
PROJECT NAME

DATE

PRIME NAME
PRIME ADDRESS
PRIME CITY, STATE, ZIP

Notice is hereby given you are authorized to commence work on the above referenced project on DATE. You are legally required to begin work within fifteen (15) working days of this date. The entire work on the project must be completed within SPELLED OUT NUMBER OF DAYS (NUMERICAL NUMBER OF DAYS) working days from the date of this notice. Forty-eight hours prior to starting work, please notify the Project Manager, PM NAME at (916) 808-EXT or PM EMAIL@cityofsacramento.org. Please address all correspondence to:

City of Sacramento
DEPARTMENT NAME
DEPARTMENT ADDRESS
DEPARTMENT CITY, STATE ZIP
Attn: PM NAME

Please reference City Project # PROJECT NUMBER in all billing correspondence. We look forward to a mutually successful project. The City of Sacramento is committed to the "Partnering Concept" of open communication and cooperative construction. In that spirit, please do not hesitate to contact me at (916) 808-CONTRACT & COMP EXT or CONTRACT & COMP EMAIL@cityofsacramento.org if I can be of any assistance.

Respectfully,

Receipt Acknowledge,


________________________________________

CONTRACT & COMP NAME Date
Contracts & Compliance Specialist

________________________________________

Signature Date

Cc: CONTRACT & COMP NAME, ACCOUNTING NAME, PM NAME
Labor Compliance Requirements

DATE:
JOB:
PROJECT NUMBER:

Contract Administrator:
Labor Compliance Officer:
Project Manager:
Prime Contractor:

In accordance to City of Sacramento Ordinance Section 360.180 the following is to comply with the City of Sacramento prevailing wage provision and contract provisions.

The award of a public works contract requires that all workers employed on the project be paid not less than the specified general prevailing wage rates by the contractor and its subcontractors. Owner Operators are not exempt from this requirement (LC § 1777.5). Current Prevailing Wage Rates can be accessed at [http://www.dir.ca.gov/dlss/pwd](http://www.dir.ca.gov/dlss/pwd).

**NOTE:** The first bid advertisement date of the project determines the applicable wage for this project. Please check your bid advertisement date to make sure you are using the correct determination. Superseded prevailing wage determinations can be obtained at [http://www.dir.ca.gov/oprl/main.htm](http://www.dir.ca.gov/oprl/main.htm).

Prevailing wage rates and rate changes are to be posted at the job site for workers to view.

*If Federal Funded: Davis/Bacon prevailing wage rates apply, unless State prevailing wage rates are required.*

**Prevailing Wage Requirements**

- All workers employed in the execution of a public works project, including sole proprietors, partners, and corporate officers, must be paid not less than the specified prevailing wage rates for the type of work performed. Reference: Labor Code 1774

- Overtime must be paid for all hours over 8 in a calendar day and 40 hours in a week. Violations may subject the contractor to a state penalty of $25 per day per worker. Please reference the general prevailing wage determination that is applicable for further guidance. References: Labor Code 1810-1815

- Saturday/Sunday premium rates are applicable as indicated on prevailing wage determinations.

- When required shift differential rates must be paid for classifications which include a shift determination.

**State Prevailing Wage Determinations**

* Single asterisk indicates that this wage determination can be used for the life of the contract.
** Double asterisk indicates that this wage determination includes predetermined increases.

- Subsistence/Zone pay must be shown on the fringe benefit statement if not shown on certified payroll.
  ⊳ The contractor must make applicable travel and subsistence payments in accordance with
information on file with the Department of Industrial Relations (DIR) for classifications utilized. Call the Prevailing Wage Unit at (415) 703-4774 or available at: (415) 703-4774 or available at: [http://www.dir.ca.gov/dlrs/PWD/index.htm](http://www.dir.ca.gov/dlrs/PWD/index.htm) Reference: Labor Code 1773.1

- Contractors violating prevailing wage requirements are subject to a penalty of up to $200 per day per worker, paid in addition to any wage underpayments. Liquidated damages in the amount of the wage underpayments may also apply. References: Labor Code 1775 and 1742.1

### Apprentices

- All requirements of the State Labor Code, Section 1777.5 apply including the following:
  - Submit Division of Industrial Relations form DAS-140, *Public Works Contract Award Information*, to the applicable apprenticeship committee prior to start of work. This form with proof of service is to be uploaded into LCPtracker. The form may be downloaded at: [http://www.dir.ca.gov/DAS/PublicWorksForms.htm](http://www.dir.ca.gov/DAS/PublicWorksForms.htm)
  - Submit Division of Industrial Relations form DAS-142- Request for Dispatch of Apprentices (Prime and Sub-Contractors.) This form with proof of service is to be uploaded into LCPtracker.
  - If applicable Submit Division of Industrial Relations form DAS 7- Agreement to Train Apprentices signed and accepted by the Division of Apprenticeship Standards. (This form applies if the contractor or sub contractor has checked box 1 on the DAS 140.)
  - Training funds MUST be sent to a state-approved apprenticeship program or the California Apprenticeship Council and identified on the fringe benefit statement. If you are submitting the Training Funds to the California Apprenticeship Council this must be done electronically. The form can be found at the following link: [https://www.dir.ca.gov/das/tf/cac2.asp](https://www.dir.ca.gov/das/tf/cac2.asp) CAC-2 Form and are due monthly by the 15th.

*Training Fund Contribution Letter*- are due monthly by Prime and Sub-Contractors. (If you are a Union Contractor submit the CAC-2 form stating funds are paid to specific trust fund and letter verifying those funds have been paid please upload both forms in LCPtracker.net)

- Apprentices must be paid the prevailing wage rate applicable to the classification and step in which they are registered and employed.

- Proof of registration in a state-approved apprenticeship program is required and must be submitted with the first payroll on which apprentices appear. References: Labor Code 1777.5; Contract Provision

- Complaints or violations regarding apprentice ratios will be referred to DAS. Reference: CCR 16434

### Certified Payroll Records

- Certified Payroll Reports (CPR) are to be input into LCPTracker.net. All Contractors and subcontractors, on all public works projects, are required to submit certified payroll records (CPRs) to the Labor Commissioners through the eCPR system. Due within ten (10) days of pay period end date. CPR’s shall contain the same information for compliance with LC § 1776. Classification and group numbers are required on all payrolls. When work classification is not shown the City will determine the wage rate based on duties performed. Due minimum of bi-weekly with a Statement of Compliance for each pay period. (Located on LCPTracker.net under edocs) Reminder: wage increase for Master Agreement usually occurs on 06/15 and 06/29 or 06/30.
• Negative Payroll Report **Due within ten (10) days of pay period end date** if there is five (5) or more consecutive non-work days within any single pay period.

• Fringe Benefit Statement: **Form 420 (Located on LCPtracker.net under edocs)** Paid in cash or contributions to plans/programs are **due with first certified payroll report and anytime the fringe benefits change**. Please breakdown all fringes paid to employee and to what program they are being paid to. Documentation that the amount stated on the fringe benefit statement is being paid on the employees behalf may be requested for validation. If fringes are paid in cash please list a breakdown of those cash amounts.

• **Other Deductions**—Need to be detailed on the CPR and must be expressly authorized in writing by the employee or collective bargaining agreement. These need to be reference on the submitted CPR’s and documentation uploaded into LCPtracker. There is a form available for download under the e-Documents tab.

### Listing of Subcontractors

Contractors and subcontractors are required to list all suppliers and tier subcontractors hired to perform work on a public works project (in accordance to contract standard specification).

- The Subletting and Subcontracting Fair Practices Act requires prime contractors to list, at bid time, all subcontractors who will perform work in excess of one-half of one percent of the total bid amount or $10,000, whichever is greater. For building projects, subcontractors who will perform work in excess of one-half of one percent must be listed. The prime must use those subs as listed at bid time unless a **written substitution is requested and approved in writing** by the Contracts Specialist and Project Manager **before substitution**.

  **References:** Public Contract Code 4100-4114; Standard Specifications 5, Control of Work

- **Subcontracting Request**, Prime Contractor update the Form 300 (List of Subcontractors & Suppliers) before they begin work at the jobsite and anytime there is an approved substitution. The prime must perform 30 percent of the work with their own forces.

- The prime contractor is responsible for work performed and compliance met by subcontractors and owner-operators.

- Failure to comply with the requirements of the Subletting and Subcontracting Fair Practices Act may result in a penalty of 0-10 percent of the subcontract involved and a referral to the Contractors State License Board. **Reference: Public Contract Code 4110-4111**

### List of Subcontractors & Suppliers: Form 300 (Located on LCPtracker.net under edocs)

Per Government Section 4100 et seq; prohibition against unfair competition Business & Professions Code Section 17200-17208, you must list suppliers and the amount of their product (s). **Form is due within ten (10) days of pre-construction meeting.**

### Pay Requests

The Labor Compliance Officer shall notify the contractor and the Project Manager of noncompliance and labor issues prior to pay requests approval. Advance notice of submission to the Compliance Officer is required. You must submit a **current schedule of values** with each pay request and **you must have all labor compliance requirements met before submitting a pay request**. **Failure to meet the labor compliance requirements will result in your pay request being denied and returned to you for full compliance.** Pay request must be submitted to the inspector for his/her review first. The inspector will then forward the request to the Project Manager and the Labor Compliance Officer for their review.
Pursuant to Labor Code Section 1776, the City of Sacramento will impose penalties of $100 per day per worker for each day the documentation that is requested is considered late (beyond the 10 days from when notice is given), even if the information you eventually submit is found to be correct. This information is to be uploaded into LCPtracker.net. If you have been asked to make any corrections to the documents submitted, we ask that you make the requested corrections and re-upload the corrected document into LCPtracker as soon as possible. As progress payments may be delayed while these items are outstanding, it would be in your best interest to see that these documents are provided as soon as possible.

Completion of Project

- Contractor Notification of Completion: Form 264 must be submitted into LCP Tracker, due upon completion of all punch list items established during final job walk.

All of these forms discussed in this document are located on LCPtracker.net under the eDocuments tab.

In accordance with city policy and contract documents, the undersigned contractor herein certifies that it will comply with the foregoing prevailing wage requirements; and fully understands that failure to comply with these requirements will subject it to the penalties cited herein.

______________________________  ______________________________  __________
Contractor Signature            Title                        Date
Start-Up Documents Due Prior to Start of Construction:

1. Certification Statement of Contractor:
   If there is any contractor working as an “Independent Contractor”, “Owner- Operator”, “Sole Proprietor” or “Leased Worker” the certification form must be filled out.
   a. The original is to be submitted prior to, or concurrent with, the first payroll in which the Independent Contractor, Owner-Operator, Sole Proprietor or Leased Worker commences work.

2. Authorization Letter for Signing Certified Payroll
   a. To be signed by company officer or owner and uploaded into LCPtracker prior to the first Certified Payroll Report.
   b. This document lets the Labor Compliance Department know whom is authorized to sign certify payroll reports and other documents on behalf of the Contractor.

3. FORM 300 List of all Subcontractors and Suppliers:
   a. To be filled out and uploaded within 10 days of the preconstruction meeting and prior to the first Certified Payroll Report.
   b. This document lets the Labor Compliance Department know who will be working on this project. This is checked against initial form that was submitted with bid documents. If there are any changes during the life of the construction projected this form is to be updated and the Labor Compliance Officer is to be made aware of changes.
   c. This form is to be filled out by all Subcontractors and their lower level subs and uploaded into LCPtracker.

4. Checklist of Labor Law Requirements:
   a. To be filled out and signed by the contractor and all sub tier contractors prior to start of their work on the construction project. Please check all boxes that apply.

5. Fringe Benefit Statement:
   a. Asterisk or note any form of benefits that are included in the payroll reports should be listed out as an “hourly” rate of pay for each trade used.
   b. If fringe payments are made directly to the employee in lieu of fringes, please note “paid in cash” under the applicable fringe payment and breakdown the hourly rate that is paid to the employee in cash.
   c. Must be re-submitted when wage rates are updated, with effective dates and/or any changes in fringes are made.
6. **DAS-140- Public Works Contract Award Information Form:**
   a. Contract award information must be sent to your Apprenticeship Committee if you are approved to train apprentices. If you are NOT approved to train apprentices, you must send the information to ALL applicable Apprenticeship Committees in your craft or trade in the area of the Public Works Project.
   b. After you have completed the DAS-140 Form mail the original(s) to the appropriate Joint Apprentice Training Committee(s) within (10) days of the date of the execution of the prime contractor's subcontract, but in no even later than the first day in which the contractor has workers employed upon the public work (CA Labor Code 1777.5 (e)).
   c. Upload a copy of the form or all forms submitted with proof of deliver to the LCPtracker.net program under the e-Documents Tab. The form of proof can be certified mail or fax confirmation.
   d. All Applicable Joint Apprentice Training Committee(s) may be found at: [http://www.dir.ca.gov/Databases/das/pwaddrstart.asp/](http://www.dir.ca.gov/Databases/das/pwaddrstart.asp/)
   e. Templates available for download can be found at: [http://www.dir.ca.gov/DAS/PublicWorksForms.htm](http://www.dir.ca.gov/DAS/PublicWorksForms.htm) or on LCPtracker.net under the e-Documents tab.

7. **DAS-7- Agreement to Train Apprentices Form:**
   a. **IF Applicable: (Checked box 1 on the DAS 140)**
      i. Submit your DAS-7 or equivalent certification and upload into LCPtracker.net under the e-Documents tabs and inform the labor compliance person monitoring your project. This form can be submitted with your DAS-140 form.

8. **DAS-142 Request for Dispatch of an Apprentice Form:**
   a. Send to the Joint Apprentice Training Committees (JATC) in your craft or trade in the geographic area of the Public Works Project to request the dispatch of an apprentice before starting work at the site and as needed throughout the project.
   b. Employment of Apprentices on Public Works project- (a) Contractor(s) shall employ registered apprentice(s), as defined by Chapter 4 (commencing with Section 3070) of Division 3, during the performance of a Public Work Project in accordance with the required (1) hour of work performed by an apprentice for every (5) hours of labor performed by a journeyman, unless covered by one of the exemptions enumerated in the Labor Code Section 1777.5 or this subchapter.
   c. Provide a copy of your apprenticeship program’s standards if they operate under a different ration then the California Labor Codes & Regulations.
   d. Template available for download can be found at: [http://www.dir.ca.gov/DAS/PublicWorksForms.htm](http://www.dir.ca.gov/DAS/PublicWorksForms.htm)
Forms Required Prior to Construction
Classification Worksheet

A separate form must be filled out for each contractor/subcontractor performing on the project.

<table>
<thead>
<tr>
<th>Project Name</th>
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<td>CSLB/Certificate #</td>
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Classification(s) being Utilized (check all that apply)

- [ ] Asbestos
- [ ] Electricians
- [ ] Pile Drivers
- [ ] Boilermaker
- [ ] Elevator Mechanic
- [ ] Pipe Trades
- [ ] Bricklayers
- [ ] Glaziers
- [ ] Plasterer
- [ ] Carpenter
- [ ] Iron Workers
- [ ] Roofers
- [ ] Tile Workers
- [ ] Carpet/Linoleum
- [ ] Laborers
- [ ] Sheet Metal
- [ ] Cement Mason
- [ ] Millwrights
- [ ] Sound/Communication
- [ ] Drywall Finisher
- [ ] Operating Engineer
- [ ] Surveyor
- [ ] Drywall/Lather
- [ ] Painters
- [ ] Teamster
- [ ] Other (specify) __________________________
Letter of Authorization  
PLACE ON COMPANY LETTERHEAD

Date:

To whom it may concern:

I, the undersigned, hereby authorize ................................... to sign on our behalf in all matters relating to certified payroll, including signing of all certified payroll related documents. Any and all acts carried out by ................................... on our behalf shall have the same effect as acts of our own.

This affirm that the signatories identified above have the authority under penalty of perjury to affirm that required forms and certified payroll records are originals or are full, true and correct copies of the original and correctly depict the Trades, Crafts and Classifications of work performed; hours and days worked; and the amounts by category listed, disbursed by way of cash, check, or in whatever form or manner to each person by job classification and/or skill pursuant to public works contract.

This authorization is valid until further written notice from (COMPANY NAME).

Sincerely,

(Company counsel or company officer's signature)  
(Name Address and Title)
**City of Sacramento**  
**PW-300 Form**

**Instruction:** The Prime Contractor and all Subcontractors are required to submit the PW-300 via LCPTracker.net. If there are no subs or suppliers, state on the PW-300 and upload. If you are a Subcontractor with no additional lower tier subs place the Prime Contractors information in the Prime Contractor box and list yourself as the Subcontractor. Fill out the information that is known. If you are a Subcontractor with lower tier subs, please put your company name under the Prime Contractor field and all subs under the Subcontractors List field. Please refer to Public Contract Code 4107 regarding changes to subcontractor listing. If there are any changes made to this list during the duration of the project which might include an additional subcontractor/supplier or eliminating a subcontractor/supplier, then a revision to the PW-300 Form is required. **DIR REGISTRATION IS MANDATORY.**

### PRIME CONTRACTOR

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<td>Total Contract Amount</td>
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<td>Estimated Completion Date</td>
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<td>DIR Registration #</td>
<td>Federal Tax ID #</td>
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### SUBCONTRACTORS LIST

#### SUBCONTRACTOR

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I have completed the documentation accurately and to the best of my knowledge.

Signature: __________________________

Date: __________________________
Checklist of Labor Law Requirements (CCR Title 8, Section 16421)

NAME (print)_________________________________________________________Date________________________

Company_____________________________________________________________________________________

Address______________________________Phone______________________________

City__________________________State__________Zip Code____________________

Project Manager________________________Superintendent/Foreman________________________

Certified Payroll__________________________Phone/Ext__________________________

Contractor License NO:______________________________________________Exp Date________________________________S specialty License NO:____________________________________________

Self-Insured Certificate NO:__________________________________________Workers Comp policy NO:________________________________________

Project NAME________________________________________Project #/Bid Package#________________________

Awarding Body________________________________________________________Advertisement Date________________________

If Subcontracting, List your prime/general Contractor __________________________

____________________________________________________Contract Award Amount________________________

The Federal AND State Labor LAW requirements Applicable to the Contract Are Composed OF, But Not Limited to, the Following:

☐ Payment of Prevailing Wage Rates

The contractor to whom the contract is awarded, and its subcontractors hired for the public works project are required to pay not less than the specified general prevailing wage rates to all workers employed in the execution of the contract. Labor Code Section 1770 et seq.

The contractor is responsible for ascertaining and complying with all current general prevailing wage rates for crafts and any rate changes that occur during the life of the contract. Information on all prevailing wage rates and all rate changes are to be posted at the job site for all workers to view. Additionally, current wage rate information can be found at the DLSR web site, www.dir.ca.gov/dlsr/statistics_research.html.

☐ Apprentices

It is the duty of the contractor and subcontractors to employ registered apprentices on the public works project and to comply with all aspects of Labor Code Section 1777.5, relating to Apprentices on public Works. (1) Notify approved apprenticeship programs of contract award; (2) employ apprentices; (3) pay training fund contributions.

☐ Penalties

There are penalties required for contractor’s/subcontractor’s failure to pay prevailing wages and for failure to employ apprentices, including forfeitures and debarment under Labor Code Sections 1775; 1776; 1777.1; 1777.7 and 1813.

☐ Certified Payroll Reports

under Labor Code Section 1776, contractors and subcontractors are required to keep accurate payroll records showing the name, address, social security number and work classification of each employee and owner performing work; also the straight time and overtime hours worked each day for each week, the fringe benefits, and, the actual per diem wage paid to each owner, journey person, apprentice worker or other employee hired in connection with the public works project.

This requirement includes and applies to all subcontractors performing work on Awarding Body projects even if their portion of the work is less than one half of one percent (0.05%) of the total amount of the contract.

The certified payroll records shall contain the same data fields listed on the Public Works Payroll Reporting Form (A-1-131) and contain or is accompanied by a declaration made under penalty of perjury. (California Code of Regulations, Section 16401). Prime Contractors are responsible for submittal of their payrolls and those of their respective subcontractors as one package. Any payroll not submitted in the proper form will be rejected. In the event that there has been no work performed during a
Checklist of Labor Law Requirements, continued

Given week, the certified payroll report shall be annotated: "No work" for that week or a Non-performance Statement must be submitted.

Employee payroll records shall be certified and shall be made available for inspection at any reasonable hours at the principal office of the contractor/subcontractor, or shall be furnished to any employee, or his/her authorized representative on request, pursuant to Labor Code Section 1776.

Under Labor Code Section 1776(g) there are penalties required for contractor's/subcontractor's failure to maintain and submit copies of certified payroll records on request.

☐ Nondiscrimination in Employment

☐ Kickbacks Prohibited
Contractors and subcontractors are prohibited from recapturing wages illegally by accepting or extracting "kickbacks" from employee wages under Labor Code Section 1776.

☐ Acceptance of Fees Prohibited
There exists a prohibition against contractor/subcontractor acceptance of fees for registering any person for public work under Labor Code Section 1779; or for filling work orders on public works contracts pursuant to Labor Code Section 1780.

☐ Listing of Subcontractors
All prime contractors are required to list properly all subcontractors hired to perform work on the public works projects covering more than one-half of one percent, pursuant to Government Code Section 4104.

☐ Proper Licensing
Contractors are required to be licensed properly and to require that all subcontractors be properly licensed. Penalties are required for employing workers while unlicensed under Labor Code Section 1021 and under the California Contractor License Law found at Business and Professions Code Section 7000 et seq.

☐ Unfair Competition Prohibited
Contractors and sub-contractors are prohibited from engaging in unfair competition as specified under Business and Professions Code Sections 17200 to 17208.

☐ Workers Compensation Insurance
Labor Code Section 1861 requires that contractors and subcontractors be insured properly for Workers Compensation.

☐ OSHA
Contractors and subcontractors are required to abide by the Occupational, Safety and Health laws and regulations that apply to the particular construction project.

☐ Proof of Eligibility/Citizenship
The federal prohibition against hiring undocumented workers, and the requirement to secure proof of eligibility/citizenship from all workers, is required.

☐ Itemized Wage Statement
Labor Code Section 226 requires that employees be provided with itemized wage statements.

Certification

I acknowledge that I have been informed and am aware of the foregoing requirements and that I am authorized to make this certification on behalf of _______________________________.

(Company Name)

I fully understand that failure to comply with any of the above requirements may subject me, or my company, to penalties as provided above.

Contractor ________________________________ (Signature) ________________________________ (Date)

Awarding Agency/Labor Compliance program ________________________________ (Signature) ________________________________ (Date)
In order that the proper Fringe Benefit rates can be verified when checking payrolls on the below contract, the hourly rates for fringe benefits, payment made for employees on the various classes of work are tabulated below. If you use other plans not listed above, you may use the next page to provide this additional information. **If the contributions are paid to the employee in cash**, please list the hourly amount in the corresponding category. Training Fund Contributions can never be paid to the employee directly.

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<tr>
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Types of Benefits Which Do Not Constitute Employer Payments:

The types of benefits for which an employer may not take a credit against its prevailing wage obligations include benefits such as the use of a cell phone or company vehicle, gas reimbursement, or a Christmas bonus.

“Employer Payments” Defined:
Labor Code §1773.1 defines Employer Payments to include all of the following:
(1) The rate of contribution irrevocably made by the employer to a trustee or third person pursuant to a plan, fund, or program.
(2) The rate of actual costs to the employer reasonably anticipated in providing benefits to workers pursuant to an enforceable commitment to carry out a financially responsible plan or program communicated in writing to the workers affected.
(3) Payments to the California Apprenticeship Council pursuant to Section 1777.5.

It is not necessary that the Employer Payment satisfy all of these three conditions in order for the credit to be valid. It is sufficient that the Employer Payment satisfies any one of the specified conditions in order to be considered an Employer Payment for which a contractor is entitled to take a credit against its prevailing wage obligation.

Irrevocably Made to a Trustee or Third Person Pursuant to a Plan, Fund, or Program
Examples of these types of Employer Payments include contributions by a union signatory contractor to a labor-management affiliated pension, health & welfare, training, and vacation programs, contractor payments for health insurance premiums, contractor payments irrevocably made to a trustee or third party for pension benefits, and similar types of payments.

Employer Payments made to these types of plans must be made regularly
For enforcement purposes, the Division requires that payment be made no less than quarterly, which is consistent with the requirement under the Davis-Bacon Act and its implementing regulations. (29 C.F.R. § 5.5(a)(1)(i).)

Employer Payments Must Be Determined Separately for Each Worker
Credit against the prevailing wage obligation may be taken only toward the prevailing wage requirement for each applicable worker. Employers may not take credit for an individual worker based upon an average payment or contribution made on behalf of a group of workers. For a specific example demonstrating DLSE’s method of converting a contractor’s monthly or annual contributions to a typical benefit plan into an hourly wage equivalent to calculate the amount of credit available against the prevailing wages due to an individual worker, please refer to Section 4.2.6.4.1 of this Manual.

Vesting Does Not Normally Affect Right to Credit
Many pension plans, particularly union-affiliated pension plans, contain “vesting” requirements which, under the plan, require that the worker complete a certain length of service before the worker has a no forfeitable right to benefits under the plan. The existence of such vesting requirements does not affect the amount of credit an employer may take for such contributions, provided that the pension plan is a bona fide plan that meets the applicable requirements under ERISA, including the minimum vesting requirements. Under no circumstances, however, may the forfeited contributions revert to the employer.

Employer Payments That Are Reasonably Anticipated to Benefit Workers
Employer Payments that are not irrevocably made to a trustee or third person pursuant to a plan, fund, or program may still be valid as a credit against the prevailing wage obligation, provided that they meet all of the conditions set forth in Labor Code § 1773.1(b)(2). Such rate of actual costs for such plan or programs can be credited against the prevailing wage only if the plan or program:

(1) Can be reasonably anticipated to provide benefits to workers;
(2) Is pursuant to an enforceable commitment;
(3) Is carried out under a financially responsible plan or program; and
(4) Has been communicated to the worker affected.

Example
The type of Employer Payments contemplated under § 1773.1(b)(2) may include certain vacation and holiday plans for which the employee accrues the benefit during the time worked on a public works project. Such payments must meet all the conditions set forth above. In addition, the credit may be taken only as to amounts which are “actual payments.” (8 CCR § 16200(a)(3)(i).)
Payments to the California Apprenticeship Council

Employer Payments for which a contractor may take a credit against its prevailing wage obligations also include payments made to the CAC pursuant to Labor Code § 1777.5(m)(1). The amount of contribution is listed on the general prevailing wage determination for those crafts which are recognized by the Director of the DIR as an apprenticeable craft. Such amounts are typically listed in the general prevailing wage determination under the heading Training or similar type heading.

A contractor may take a credit for payments to the CAC any amounts paid by the contractor to an approved apprenticeship program that can supply apprentices to the site of the public work project. (Labor Code § 1777.5(m)(1).)

Although such payments constitute part of the Total Hourly Rate required to be paid by the employer, such payments are not paid to the worker. Rather, such payments are made to either the CAC or the applicable approved apprenticeship program. The contractor may add the amount of the contributions in computing his or her bid for the public works contract. (Labor Code § 1777.5(m)(1).)

Exception - Non-Apprenticeable Crafts

For non-apprenticeable crafts, any training contributions should be paid to the worker as wages and not paid to the CAC. Some crafts are not identified on the Director’s wage determinations with a symbol (#) which indicates an apprenticeable craft. If that is the case, any training contribution listed in the general prevailing wage determination should be paid to the worker, or to the applicable training program, if the contractor is contractually obligated to make such payments under its collective bargaining agreement.

Annualization

Annualization is a principle adopted by the federal Department of Labor in enforcing the Davis-Bacon Act for crediting contributions made to fringe benefit plans based on effective rate of contributions for all hours worked during a year by an employee on both public (Davis-Bacon) and private (non-Davis-Bacon) projects. (Miree Construction v. Dole (11th Cir. 1991) 930 F.2d 1536, 1539.) California law requires that the credit for employer payments must be computed on an annualized basis where the employer seeks credit for employer payments that are higher for public works projects than for private construction performed by the same employer. (Labor Code § 1773.1(d).)

Exceptions:

Annualization is required except where one or more of the following occur:

1. The employer has an enforceable obligation to make the higher rate of payments on future private construction performed by the employer.
2. The higher rate of payments is required by a project labor agreement.
3. The payments are made to the CAC pursuant to Section 1777.5.
4. The director determines that annualization would not serve the purposes of this chapter.

The annualization principle requires that when converting an employer’s contribution to a pension or medical plan into an hourly amount, the amount of payments must be divided by the total number of hours worked in a year on all projects, public and private, not just the number of hours worked during that year on public projects. This method of calculation, the "annualization" principle, provides a means to permit an employer to take credit only for employer contributions paid to workers while employed on covered public works projects.

DLSE Annualization Calculation

For enforcement purposes, the DLSE follows the federal enforcement guidelines. See Department of Labor Field Enforcement Handbook – 6/29/90, Section 15f11. (See http://www.dol.gov/whd/FOH/index.htm to review the handbook.) Under the federal enforcement guidelines, where a contractor makes annual payments in advance to cover the coming year and actual hours will not be determinable until the close of that year, the total hours worked by the workers performing work covered by California’s prevailing wage laws, if any, for the preceding calendar year (or plan year) will be considered as representative of a normal work year for purposes of annualization. Similarly, where the contractor pays monthly health insurance premiums in advance on a lump sum basis, the total actual hours worked in the previous month, or in the same month in the previous year, may be used to determine (i.e. estimate) the hourly equivalent credit per employee during the current month. It is not considered a violation if the contractor uses the full year equivalent of 2,080 (40 hours x 52 weeks) hours in determining the applicable credit unless, of course, the affected employee worked more than 2,080 hours in that applicable year.
Representative Period.
Any representative period may be utilized in such cases, provided the period selected is reasonable. Employers using other methods to calculate the allowable credit have the burden of establishing that their method satisfies the annualization requirements set forth in Labor Code 1773.1(d).

Example:
An employee works as a carpenter where the basic hourly rate set forth in the wage determination for Carpenter is $30 and the total employee benefit (Employer Payment) package is $15, excluding the training contribution. Accordingly, the total hourly rate required to be paid under California’s prevailing wage laws is $45. Where the employer provides the carpenter with medical insurance in the amount of $4,000 per year, the employer would divide the total annual cost of the benefit by the total hours worked by the employee for the preceding year. The employer may also use 2,080 hours, which is the equivalent of full year employment to arrive at the allowable Employer Payment credit.
For instance, where the employer uses the equivalent of full year employment, or 2,080 hours, the applicable credit is as follows:

($400 x 12 months) divided by 2,080 hours = $2.31 per hour.
If the worker in this example receives no other employee benefits which are recognized as bona fide Employer Payments under California law, then for each hour worked on a project covered by California’s prevailing wage laws, the employer is entitled to take a credit of no more than $2.31 against its obligation to pay the worker $45 per hour, up to a maximum credit of $4,800, which is the total amount paid for medical insurance. The difference between the $15.00 per hour employer payment required under the applicable wage determination and the credit allowed for the provision of medical insurance must be paid to the worker as part of his or her hourly wage for work performed on the public works project.
If the worker works the entire year on projects covered by California’s prevailing wage laws, or under circumstances otherwise exempt under the exceptions set forth above in Labor Code § 1773.1(d)(1)-(4), the employer would be entitled to take the full credit of $2.31 up to a maximum of $4,800.
Conversely, if the worker worked only 1,500 hours of the year on projects covered by California’s prevailing wage laws and 580 hours of the year on other jobs which are not covered by California’s prevailing wage laws or are otherwise not exempted under Labor Code § 1773.1(d)(1)-(4), the employer would be entitled to take a credit of only $2.31 per hour towards meeting the employer’s obligation to pay the prevailing wage on the California public works projects. Therefore, although an employer may have paid $4,800 in insurance premiums for that year, the employer is entitled to take a total annual credit of only $3,465.00 (1,500 x $2.31) against its prevailing wage obligation because the employer may take the credit only for those hours worked on a public works project.
Payments to The California Apprenticeship Council Pursuant to Section 1777.5. As specified in Labor Code § 1771.3(d)(3), payments made to the CAC, or to an applicable approved apprenticeship program pursuant to Labor Code § 1777.5(m)(1), do not need to be annualized. For enforcement purposes, the Division takes the position that the exemption from the annualization requirements under section 1771.3(d)(3) is limited to the training contribution amounts set forth in the applicable general prevailing wage determination. Any amounts paid in excess of the amount set forth in the applicable general prevailing wage determination must be annualized unless otherwise exempt under section 1771.3(d).
Credit for Employer Payments

California prevailing wage law requires the payment of per diem wages, which includes two components. The first component is the Basic Hourly Rate. The second component is the Employer Payments. Taken together, these two components make up the Total Hourly Rate which must be paid to each worker for any work performed on a public works project.

Employer Payments Are a Credit Against the Obligation to Pay the General Prevailing Wage Rate of Per Diem Wages

Contractors obligated to pay prevailing wages may take credit for amounts up to the aggregate total of all benefits, such as pension, health & welfare, etc., listed as prevailing in the applicable wage determination. Contractors are not limited to the individual amounts specifically listed under the various categories of benefits specified in a wage determination in taking credit for providing Employer Payments. Rather, the contractor may take a credit for the aggregate total of permissible Employer Payments made on behalf of the affected worker. For example, the Director’s current prevailing wage determination (SC-3-5-1-2013-1) in Los Angeles County for the Craft of Asbestos Worker, Heat and Frost Insulator, in the Classification of Mechanic, reflects a Basic Hourly Rate $32.79, with permissible Employer Payments of $7.54 per hour (Health and Welfare), $7.68 per hour (Pension), $7.47 per hour (Vacation/Holiday), and one mandatory employer payment of $0.64 per hour (Training), which must be paid to the California Apprenticeship Council (“CAC”) or an approved apprenticeship program. The Sum of all these components ($51.30) is the Total Hourly Rate listed on the Determination. The aggregate total of permissible Employer Payments is $22.87. The permissible Employer Payment amounts listed here typically reflect the particular hourly benefit rates found in a collective bargaining agreement which the Director determined had established the prevailing rate for this craft and classification of work in this geographic area. Absent contractual obligations which may apply to a particular contractor, the total of $22.87 per hour may be paid by an employer in full or in part to any category of permissible Employer Payments, and the employer will be entitled to credit against the total prevailing wage obligation. Thus, an employer may choose to contribute $20 of the aggregate total to a private medical insurance plan or a pension plan for its workers and pay the remainder of $2.87 directly to the workers. Full credit will be to that employer for the medical insurance payments, and all of the payments added together ($35.66 to workers + $20.00 to medical plan + $0.64 to CAC = $51.30) would reflect compliance by this employer with the prevailing wage rate obligation. (WSB Electric, Inc. v. Curry (9th Cir. 1996) 88 F.3d 788.) This credit may be taken only as to amounts which are actual payments. (8 Cal. Code ofRegs. § 16200(a)(3)(l).) No credit may be taken for benefits required to be provided by other state or federal law. (Labor Code § 1773.1(c).) For instance, a contractor may not take a credit against its prevailing wage obligations for benefits such as workers’ compensation, unemployment benefits, and social security and Medicare contributions.

No Reduction of the Basic Hourly Rate

California law prohibits the use of credits for Employer Payments to reduce the obligation to pay the hourly straight time or overtime wages specified as the Basic Hourly Rate in the general prevailing wage determination. (Labor Code § 1773.1(c) and 8 Cal. Code ofRegs. § 16200(a)(3)(l).) Two legislatively created exceptions to this general rule are now found at Labor Code section 1773.1(c) and section 1773.8. Both exceptions are extremely limited in scope and are only applicable to increases in employer payment contributions made pursuant to criteria set forth in a collective bargaining agreement (“CBA”), and only if the specific statutory conditions listed in the Labor Code have been met. DLSE investigators will typically require a contractor claiming an exception under these sections to submit satisfactory evidence that the exception applies, including, but not limited to, a certified copy of the CBA upon which the exception is based, and to certify that the CBA’s terms applied to the workers identified on the contractor’s certified payroll records.

Example:

| Basic Hourly Rate | $25.00 |
| Employer Payments | $15.00 |
| Total Hourly Rate | $40.00 |

The contractor can comply with California prevailing wage laws by paying:

1. $40.00 per hour in wages;
2. $25.00 per hour in wages plus $15.00 in Employer Payments.
3. Any combination of the wages and Employer Payments so long as the Basic Hourly Rate is not less than $25.00 per hour and the Total Hourly Rate meets or exceeds $40.00 per hour.

Different for Purely Federal Projects Under Davis-Bacon Act
The California law restricting the reduction of the Basic Hourly Rate is distinct from the federal prevailing wage laws under the Davis-Bacon Act. The Davis-Bacon Act does not prohibit the crediting of employer payments or benefit contributions towards fulfilling the hourly wage rate listed in the contract wage determination on federally funded projects. Contractors performing work on projects which are governed by both the federal Davis-Bacon Act and the California prevailing wage requirements must, however, continue to comply with state requirements in order to be in compliance with California law. DLSE investigators may encounter this issue when dealing with contractors on public works projects which have mixed funding (both federal and state) or federally funded projects which are controlled or carried out by California awarding bodies of any sort. In both of these situations, the application of state prevailing wage rates when higher is required. (See 8 CCR § 16001(h).)

Application to All Hours Worked
Employer Payments must be paid for all hours worked, including overtime hours, unless expressly provided otherwise in the general prevailing wage determination. The general prevailing wage determinations specify the applicable daily, Saturday, Sunday, and Holiday overtime payment. Although the applicable overtime rates set forth in the determination include the Employer Payments, the overtime rate (for example, time and one half) is based upon the Basic Hourly Rate only. The Employer Payment is therefore excluded from calculating the applicable overtime premium due as overtime compensation.

Example:
An employee worked 12 hours in the workday as an Iron $22.00 in Employer Payments. The overtime rate for the first 2 daily overtime hours is $48.00 (one and one half (1½) times the Basic Hourly Rate of $32.00, or $32.00 + $16.00). The wages due for each overtime hour is $70.00 (the overtime rate plus Employer Payments, or $48.00 + $22.00). The wages due per hour for all other overtime is $86.00 (two (2) times the Basic Hourly Rate plus Employer Payments, or $64.00 + $22.00).

The worker would be due:

<table>
<thead>
<tr>
<th>Hours</th>
<th>Rate</th>
<th>Total Due</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 Hours</td>
<td>$54.00 ($32.00 + $22.00)</td>
<td>$432.00</td>
</tr>
<tr>
<td>2 Hours</td>
<td>$70.00</td>
<td>$140.00</td>
</tr>
<tr>
<td>2 Hours</td>
<td>$86.00</td>
<td>$172.00</td>
</tr>
<tr>
<td>Total Wages Due</td>
<td></td>
<td><strong>$744.00</strong>*</td>
</tr>
</tbody>
</table>

* This example is for illustration purposes. The general prevailing wage determinations specify the applicable Total Hourly Rates that must be paid to workers for straight time, overtime, Saturday and Sunday work, and there is no need for contractors to independently determine the hourly amount to be paid.

Types of Employer Payments for Which an Employer May Take a Credit Against Its Prevailing Wage Obligations.
The types of employee benefits recognized as Employer Payments under Labor Code § 1773.1 include payments for:

2. Pension.
3. Vacation.
4. Travel.
5. Subsistence.
6. Apprenticeship or other training programs authorized by Section 3093, so long as the cost of training is reasonably related to the amount of the contributions.
7. Worker protection and assistance programs or committees established under the federal Labor Management Cooperation Act of 1978 (Section 175a of Title 29 of the United States Code) to the extent that the activities of the programs or committees are directed to the monitoring and enforcement of laws related to public works.
8. Industry advancement and collective bargaining agreements administrative fees, provided that these payments are required under a collective bargaining agreement pertaining to the particular craft, classification, or type of work within the locality or the nearest labor market area at issue.
9. Other purposes similar to those specified in paragraphs (1) to (8), inclusive.
How to Fill out the DAS 140 Correctly:

If the total dollar value of a project exceeds $30,000, apprentice must be requested. The DAS-140 form is to be forwarded directly to an apprenticeship committee of the contractor’s choice, and a copy with verification of proof of submission uploaded into SDCRAA Labor Compliance Departments electronic system; LCP Tracker.

Submit the contract award information in writing to each of the apprenticeship program sponsors in the locality of your public works project within 10 days of the prime execution of the contract or subcontract, but in no event later than the first day in which the contractor has workers employed on the project.

The DAS140 is simply a “notification of award” and is not automatically a request for dispatch of a registered apprentice.

State regulations state a contractor on a public works project must employ one (1) hour of apprentice work for every five (5) hours performed by a journeyman. Please follow up with the selected apprenticeship committee to confirm ‘Apprentice’ to ‘Journeyman’ ratio, as ratios do vary from trade to trade.

All contractors must request ‘dispatch of an apprentice’ from an apprenticeship program (for each apprentice-able craft or trade) by giving the program notice of a minimum of 72 hours (business days only) before the date on which apprentices are required. Contractors who are not already participating in an approved program and who did not receive a sufficient number of apprentices from their initial request, must dispatch apprentices from all other apprenticeship committees within the locality, if more than one exists in the area of the public works project.

What are the differences between box 1, 2, and 3 at the bottom of the DAS 140?

- **Box 1** is for contractors who are already approved to train by an apprenticeship program (signatory/member).
- **Box 2** indicates that a contractor is willing to comply with a program’s Standards for the current project only. This generally means that the fringe benefits and the training funds will be paid to that Committee’s Trust Fund. It also allows a contractor to take advantage of a more generous maximum ratio than the CAC Standards, but does not affect the minimum ratio of 1 apprentice hour for every 5 journeyman hours.
- **Box 3** means that a contractor will be governed by the regulations of the California Apprenticeship Council. Generally, this means that the minimum and maximum ratio for apprentices is the same – 1 apprentice hour for every 5 journeyman hours per each craft, totaled at the end of the project. It also means the Training Fund Contribution is usually paid to the California Apprenticeship Council.

SELECTING BOXES:

1. Contractor has a signed “Agreement to Train Apprentice” with an affiliated (state certified) apprenticeship committee, the contractor has apprentices on staff and has the ability to train apprentices.
   - **a.** Must provide a copy of the DAS7 agreement for verification OR a letter from the JATC or UNION stating that the contractor is approved to train apprentices.

2. Contractor is not currently affiliated with a state approved program, is selecting a committee, and requesting apprentice; will be abiding by committee’s standards.

3. Contractor will contact a committee and request an apprentice but is not obligating to maintain affiliation w/any-one committee; additionally, contractor will not commit to selected program committee standards but will follow state standards (most commonly used for out-of-state contractors).
   - **a.** Per the DAS, this is not the preferred selection; however, the State is not requiring a contractor to join a program, just ensuring that apprentices are utilized on Public Work Projects.
PUBLIC WORKS CONTRACT AWARD INFORMATION

Contract award information must be sent to your Apprenticeship Committee if you are approved to train. If you are not approved to train, you must send the information (which may be this form) to ALL applicable Apprenticeship Committees in your craft or trade in the area of the site of the public work. Go to: http://www.dir.ca.gov/das/PublicWorksForms.htm for information about programs in your area and trade. You may also consult your local Division of Apprenticeship Standards (DAS) office whose telephone number may be found in your local directory under California, State of, Industrial Relations, Division of Apprenticeship Standards.

Do not send this form to the Division of Apprenticeship Standards.

<table>
<thead>
<tr>
<th>NAME OF YOUR COMPANY</th>
<th>CONTRACTOR'S STATE LICENSE NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAILING ADDRESS: NUMBER &amp; STREET, CITY, ZIP CODE</td>
<td>AREA CODE &amp; TELEPHONE NO.</td>
</tr>
<tr>
<td>NAME &amp; ADDRESS OF PUBLIC WORKS PROJECT</td>
<td>DATE YOUR CONTRACT EXECUTED</td>
</tr>
<tr>
<td>NAME &amp; ADDRESS OF PUBLIC AGENCY AWARDED CONTRACT</td>
<td>DATE OF EXPECTED OR ACTUAL START OF PROJECT</td>
</tr>
<tr>
<td>ESTIMATED NUMBER OF JOURNEYMEN HOURS</td>
<td>OCCUPATION OF APPRENTICE</td>
</tr>
<tr>
<td>ESTIMATED NUMBER OF APPRENTICE HOURS</td>
<td>APPROXIMATE DATES TO BE EMPLOYED</td>
</tr>
</tbody>
</table>

This is not a request for dispatch of apprentices.

Contractors must make a separate request for actual dispatch, in accordance with Section 230.1(a) California Code of Regulations

Check One Of The Boxes Below

1. [ ] We are already approved to train apprentices by the Apprenticeship Committee. We will employ and train under their Standards. Enter name of the Committee

2. [ ] We will comply with the standards of Apprenticeship Committee for the duration of this job only. Enter name of the Committee

3. [ ] We will employ and train apprentices in accordance with the California Apprenticeship Council regulations, including § 230.1 (c) which requires that apprentices employed on public projects can only be assigned to perform work of the craft or trade to which the apprentice is registered and that the apprentices must at all times work with or under the direct supervision of journeymen.

Signature ___________________________ Date ___________________________
Typed Name ___________________________
Title ___________________________

State of California Department of Industrial Relations
DIVISION OF APPRENTICESHIP STANDARDS

DAS 140 (REV. 1/04) Page 446 of 580
AGREEMENT TO TRAIN APPRENTICE

NAME OF EMPLOYER

MAILING ADDRESS (STREET AND NUMBER)   CITY   STATE   ZIP CODE   TELEPHONE NUMBER

ADDRESS OF TRAINING LOCATION (IF DIFFERENT)

OCCUPATION(S)

OTHER CODE

NAME OF APPRENTICESHIP COMMITTEE AND STANDARDS

AREA COVERED BY APPRENTICESHIP STANDARDS OR NAME AND ADDRESS OF PROJECT

THE OFFICIAL, whose signature follows, agrees on behalf of the above-named employer to train apprentices in the designated occupation in accordance with the apprenticeship standards and apprentice agreement and to comply with the provisions thereof.

[SIGNED] By ____________________________________________

Printed name

Title ___________________________ Date ________________

THE APPRENTICESHIP COMMITTEE accepts and approves the employer as qualified to train apprentices under its standards in the designated occupation.

[SIGNED] By ____________________________________________

Printed name

Title ___________________________ Date ________________

Effective until:

☐ Revoked

☐ End of Project (Enter project name and address in Area Covered above)

☐ Date ________________

☐ Other ___________________________ Date ________________

Accepted:

DIVISION OF APPRENTICESHIP STANDARDS

EFFECTIVE DATE [SIGNED] By ___________________________ Date ________________

REMARKS:

STATE OF CALIFORNIA

DEPARTMENT OF INDUSTRIAL RELATIONS

DIVISION OF APPRENTICESHIP STANDARDS
AGREEMENT TO TRAIN APPRENTICES

<table>
<thead>
<tr>
<th>NAME OF EMPLOYER</th>
<th>DAS File No.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>MAILING ADDRESS</th>
<th>CITY</th>
<th>STATE</th>
<th>ZIP CODE</th>
<th>TELEPHONE NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>(STREET AND NUMBER)</td>
<td></td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>ADDRESS OF TRAINING LOCATION (IF DIFFERENT)</th>
<th>District No.</th>
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<tr>
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<th>Code</th>
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</table>

<table>
<thead>
<tr>
<th>NAME OF APPRENTICESHIP COMMITTEE AND STANDARDS</th>
</tr>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>AREA COVERED BY APPRENTICESHIP STANDARDS</th>
<th>NAME AND ADDRESS OF PROJECT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

THE OFFICIAL, whose signature follows, agrees on behalf of the above named employer to train apprentices in the designated occupation in accordance with the apprenticeship standards and apprentice agreement and to comply with the provisions thereof.

[SIGNED]  
By ________________________________

Printed name ________________________________

Title __________________ Date __________

THE APPRENTICESHIP COMMITTEE accepts and approves the employer as qualified to train apprentices under its standards in the designated occupation.

[SIGNED]  
By ________________________________

Printed name ________________________________

Title __________________ Date __________

Accepted:  
DIVISION OF APPRENTICESHIP STANDARDS

Effective until:

- [ ] Revoked
- [ ] End of Project (Enter project name and address in Area Covered above)
- [ ] Date __________________ Date __________
- [ ] Other __________________ Specify

EFFECTIVE DATE [SIGNED]  
By ________________________________ Date __________

Apprenticeship Consultant

REMARKS:

MUST be signed by both Committee and DAS prior to submission

STATE OF CALIFORNIA  
DEPARTMENT OF INDUSTRIAL RELATIONS  
DIVISION OF APPRENTICESHIP STANDARDS

DAS 7 (REV 11/08)  
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APPRENTICE AGREEMENT

APPRENTICE LAST NAME:   FIRST NAME:   MIDDLE:   SOCIAL SECURITY NUMBER:

APPRENTICE ADDRESS (NUMBER AND STREET / CITY, STATE & ZIP):

BIRTHDATE (mm/dd/yyyy):

F - VETERAN:

Yes:  No:

COUNTY OF RESIDENCE:

OCCUPATION:

O'NET code:

TERM OF APPRENTICESHIP

Gross Time:  Years:  Hours per day:  8  Hours per week:  40

This agreement is between the above-named apprentice employed by the below-named employer, and

PROGRAM SPONSOR

AGREEMENT: The undersigned parties mutually agree that they will use their best endeavors to secure employment and training for the apprentice. The apprentice agrees to perform satisfactorily all work and learning assignments. The provisions of the Apprenticeship Standards for the above occupation adopted by the program sponsor and approved by the Chief of the Division of Apprenticeship Standards are hereby made a part of this agreement. An official copy of the standards is on file in the headquarters of the Division of Apprenticeship Standards. This apprentice agreement will continue in effect until the training is completed or otherwise terminated in accordance with the standards.

The apprentice commences participation under these standards on the date of execution of this agreement by the Apprentice. The signatory apprentice is credited with having _______ months toward completion of the term of apprenticeship. The apprentice is expected to complete training on or about ________________20__, upon satisfactory completion of the total remaining hours of on-the-job training and hours and/or units of related and supplemental instruction.

APPRENTICE: I, the undersigned apprentice, understand and agree that there is a valid and reasonable necessity that those academic records accumulated throughout related and supplemental instruction during my period of apprenticeship be made available to the apprenticeship committee. Further, I agree to release to the apprenticeship committee any other academic records which I feel may enhance my status as an apprentice.

I, the undersigned apprentice, hereby request that the Administrator of Apprenticeship terminate any other apprenticeship agreements in which I am currently registered.

Executed this _______ day of ____________20__ by ________________________________

SIGNATURE OF APPRENTICE

AGREED TO BY THE EMPLOYER

SIGNATURE OF PARENT OR GUARDIAN (IF APPRENTICE IS 16 OR 17)

AGREED TO AND APPROVED BY, FOR THE COMMITTEE

SIGNATURE OF EMPLOYER OR ITS REPRESENTATIVE

ADDRESS:

for unilateral programs only]

This agreement is approved by ________________________________ for the Administrator of Apprenticeship
TO THE APPRENTICE: California Civil Code Sec. 1798.17 requires State agencies which collect personal information to indicate the authority under which the data are requested. If personal information not specifically authorized by law is requested, individuals must be informed that supplying the information is voluntary. It also provides that state agencies may change or modify records at the request of the individual.

Questions C and E below are voluntary. All others are authorized by law, as indicated by the reference in each section. If the authorized questions are not answered, the apprentice agreement cannot be accepted.

The Division hopes, through collection of this data, to improve the apprenticeship program both for those presently enrolled and for future apprentices. Thank you.

# CALIFORNIA APPRENTICE QUESTIONNAIRE
(USE INK OR BALLPOINT PEN)

<table>
<thead>
<tr>
<th>A. Gender</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>□ Male</td>
<td>□ Female</td>
<td></td>
</tr>
</tbody>
</table>

( Calif. Code of Regulations, Title 8, Ch. 2, Sec. 215)

<table>
<thead>
<tr>
<th>B. Ethnic or Race Derivation (Check only one)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1 WHITE (Not of Hispanic Origin) -- A person having origins in any of the original peoples of Europe, North Africa or the Middle East.</td>
<td></td>
</tr>
<tr>
<td>2 BLACK (Not of Hispanic Origin) -- A person having origins in any of the Black racial groups of Africa.</td>
<td></td>
</tr>
<tr>
<td>ASIAN OR PACIFIC ISLANDER -- A person having origins in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent or the Pacific Islands. The area includes, for example, China, Japan, Korea and Samoa.</td>
<td></td>
</tr>
</tbody>
</table>

| A  | Asian Indian |
| B  | Bangladeshi |
| C  | Chinese     |
| D  | Cambodian   |
| 6  | Filipino    |
| 7  | Hmong       |
| I  | Indonesian  |
| J  | Japanese    |
| K  | Korean      |
| L  | Laotian     |
| M  | Malaysian   |
| P  | Pakistani   |
| R  | Sri Lankan  |
| T  | Taiwanese   |

| U  | Thai        |
| V  | Vietnamese  |
| F  | Fijian      |
| G  | Guamanian   |
| H  | Hawaiian    |
| S  | Samoan      |
| W  | Tongan      |

| 4  | AMERICAN INDIAN OR ALASKAN NATIVE -- A person having origins in any of the original peoples of North America, and who maintains cultural identification through tribal affiliation or community recognition. |
| 7  | HISPANIC -- A person of Mexican, Puerto Rican, Cuban, South Central American or other Spanish culture or origin, regardless of race. |

( Calif. Labor Code, Ch. 4, div. 3, Sec. 151)

<table>
<thead>
<tr>
<th>C. Number of Dependents (Do not count yourself)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0 □ None</td>
<td>4 □ Four</td>
</tr>
<tr>
<td>1 □ One</td>
<td>5 □ Five</td>
</tr>
<tr>
<td>2 □ Two</td>
<td>6 □ Six of More</td>
</tr>
</tbody>
</table>

(Voluntary)

<table>
<thead>
<tr>
<th>D. Highest Year of Education Completed</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1 □ 8th Grade or less</td>
<td>6 □ 1 Year of College</td>
</tr>
<tr>
<td>2 □ 9th Grade</td>
<td>7 □ 2 Years of College</td>
</tr>
<tr>
<td>3 □ 10th Grade</td>
<td>8 □ 3 Years of College</td>
</tr>
<tr>
<td>4 □ 11th Grade</td>
<td>9 □ 4 or More Years of College</td>
</tr>
<tr>
<td>5 □ 12th Grade (or GED Certificate)</td>
<td></td>
</tr>
</tbody>
</table>

( Calif. Labor Code, Ch. 4, div. 3, Sec. 3076.3)

<table>
<thead>
<tr>
<th>E. Number of Years You Have Been Employed Full Time to Date (Except for Military Service)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0 □ None</td>
<td></td>
</tr>
<tr>
<td>1 □ Less Than 1 Year</td>
<td></td>
</tr>
<tr>
<td>2 □ 1 But Less Than 2 Years</td>
<td></td>
</tr>
<tr>
<td>3 □ 2 But Less Than 3 Years</td>
<td></td>
</tr>
<tr>
<td>4 □ 3 But Less Than 4 Years</td>
<td></td>
</tr>
<tr>
<td>5 □ 4 But Less Than 5 Years</td>
<td></td>
</tr>
<tr>
<td>6 □ 5 Years or More</td>
<td></td>
</tr>
</tbody>
</table>

(Voluntary)

<table>
<thead>
<tr>
<th>F. Have You Served on Active Duty (other than reserve status) in the U. S. Armed Forces?</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>□ Yes</td>
<td>□ No</td>
</tr>
</tbody>
</table>

If you, please Enter:

Month and Year Entered:

Month and Year Separated:

Total Months served on Active Duty:

Apprentice’s Signature: ____________________________

Page 450 of 580
REQUEST FOR DISPATCH OF AN APPRENTICE – DAS 142 FORM
DO NOT SEND THIS FORM TO DAS

You may use this form to request dispatch of an apprentice from the Apprenticeship Committee in the craft or trade in the area of the public work. Go to: http://www.dir.ca.gov/databases/das/pwaddrstart.asp for information about programs in your area and trade. You may also consult your local Division Apprenticeship Standards (DAS) office whose telephone number may be found in your local directory under California, State of, Industrial Relations, Division of Apprenticeship Standards. Except for projects with less than 40 hours of journeyman work, you must request and employ apprentices in no less than 8 hour increments.

Date:

To Applicable Apprenticeship Committee:

Name:

Address:

Tel. No. Fax No.

Contractor Requesting Dispatch:

Name:

Address:

License No.

Tel. No. Fax No.

Project Information:

Contract No.

Name of the Project:

Address:

Dispatch Request Information:

Number of Apprentice(s) Needed: Craft or Trade:

Date Apprentice(s) to Report: (72 hrs. notice required) Time to Report:

Name of Person to Report to:

Address to Report to:

You may use this form to make your written request for the dispatch of an apprentice. Requests for dispatch must be in writing and submitted at least 72 hours in advance (excluding weekends and holidays) via first class mail, fax or email. Proof of submission may be required. Please take note of California Code of Regulations, Title 8, § 230.1 (a) for all applicable requirements regarding apprenticeship requests and/or visit http://www.dir.ca.gov/DAS/DASApprenticesOnPublicWorksSummaryOfRequirements.htm

DAS 142 (Revised 04/14)
Documents Required During the Life of the Construction Project

1. **CAC-2 Training Fund Contribution Form:**
   a) All Contractors must submit a CAC-2 Form monthly for the prior month’s hours.
   b) This form is now available to be filled out on the DIR website. The previous CAC-2 form is to be disregarded. CAC-2 forms **must** be done electronically. The link is as follow: [https://www.dir.ca.gov/das/tf/cac2.asp](https://www.dir.ca.gov/das/tf/cac2.asp). You must enter all requested information in order to ensure successful submission and processing of your payment. You will need to have a working printer currently connected to your computer in order to print the complete paper form in the end of this session that you will upload in to LCPtracker.net and send with your payment when mailed. The address is as follows:

   **State of California**
   **Department of Industrial Relations California**
   **Apprenticeship Council**
   **P.O. Box 511283**
   **Los Angeles, CA 90051-7838**

c) If applicable and fringes are paid directly to an approved JATC or Union Shop, please state so and fill out on the Training Fund Contribution Union Contractor form that is provided and available to be downloaded on LCPtracker. Filled out forms are uploaded into LCPtracker.net under the e-Documents tab.

2. **Training Fund Contribution Letter Form:**
   a) All Contractors must submit a Training Fund Contribution Letter monthly for the prior month’s hours.
   b) If applicable and fringes are paid directly to an approved Union Shop, please submit the Union Status Letter stating that the Contractor is up to date with all fringe and training fund contributions for the requested month. The letter should specify the month, project name, and project number.
   c) If you can’t provide a letter and the DAS has not been updated with your contribution at Contractor may provide a copy of a cancelled check submitted to the proper JATC or the DAS with the amount that matches that on the CAC-2. You may check the status of your contributions submitted to DAS online at: [http://www.dir.ca.gov/CAC/trainingfund/Tfsearch.html](http://www.dir.ca.gov/CAC/trainingfund/Tfsearch.html). This may also be submitted in lieu of the Training Fund Contribution Letter.
3. **Certified Payroll Reports CPR's and/or Non-Performance Reports:**
   a) To be submitted by all Contractors working on the project to the City of Sacramento and the Department of Industrial Relations Electronic Certified Payroll Records site.
   
   b) The reports submitted to the City of Sacramento are submitted through the contracted electronic reporting program, LCPtracker.net, which can be found online at [www.lcptracker.net](http://www.lcptracker.net). If you don’t already have a user name and password for this website, please contact your labor compliance officer with the City of Sacramento to be set up.
   
   c) The Electronic Certified Payroll Records for Contractors can be found at the following link: [https://apps.dir.ca.gov/ecpr/DAS/AltLogin](https://apps.dir.ca.gov/ecpr/DAS/AltLogin)
   
   d) Submit CPR/NPR weekly; starting (10) calendar days after the close of your pay period. This is when you begin onsite/offsite “craft” labor. This may mean you have weeks in between work on a particular job. NPR’s will need to be submitted for that timeframe.

4. **Apprenticeship Certification and/or Apprentice Agreement:**
   a) The first time an apprentice is listed on a certified payroll report an “Apprenticeship Certification” or Apprentice Agreement (DAS-1 form) must be submitted for each apprentice utilized.
   
   b) Please upload the Apprenticeship Certification or DAS-1 form in the e-Documents section of LCPtracker.net, add the apprentice ID and pertinent information under the employee information and notify the labor compliance officer in your department that approval is need prior to certification of payroll.

5. **Miscellaneous Documents:**
   a) Authorization for Deductions:
      i. Voluntary deductions require an Authorization for Deductions form; garnishments require a copy of notice (redact personal information). A form has been provided on LCPtracker to address other deductions that are recorded on the Certified Payroll Reports submitted.
   
   b) Receipt for Payment of Back Wages:
      i. For use when wage errors require supplemental wage payment(s).
# CAC - Training Fund Contributions

You must enter all requested information in order to ensure successful submission and processing of your payment. Training Fund Contributions are due on the 19th of each month.

All fields with * are required.

If there is no work for a particular month you do not need to submit a CAC2 form with zero amount for that month.

You must use the **[Submit]** button on the bottom of the page to submit for an invoice coupon to navigate between fields. Do not hit return or enter key after each entry. Use the tab key instead.

You need to have a working printer currently connected to your computer in order to print the complete paper form in the end of this session so that you can mail it with your payment.

## Training Fund Contributions Form CAC2

**Date:** 5/17/2016

<table>
<thead>
<tr>
<th>Contractor/Sub Contractor making contributions</th>
<th>Contractor</th>
<th>Period covered by contribution (from – to)</th>
<th>Jobsite Location (including County)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name: *</td>
<td>License Number: *</td>
<td>Period Start:</td>
<td>If applicable, give name of school, hospital, building, etc:</td>
</tr>
<tr>
<td>Address: *</td>
<td>Contract/Project Number:</td>
<td>Period End:</td>
<td>Comments:</td>
</tr>
<tr>
<td>City:</td>
<td>State:</td>
<td>ZIP:</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name of the submitting party:</th>
<th>Submitter's Title:</th>
<th>Submitter's Email:</th>
<th>Submitter's Phone:</th>
</tr>
</thead>
</table>

**Instructions:** You may want to use the keyboard TAB key to navigate the fields and the Up / Down ARROW keys to select a list item.

<table>
<thead>
<tr>
<th>County of Work</th>
<th>Classification 1</th>
<th>Hours</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1)</td>
<td>Select a county *</td>
<td>0</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>2)</td>
<td>Select a county *</td>
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<td>0.00</td>
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</tr>
<tr>
<td>3)</td>
<td>Select a county *</td>
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<tr>
<td>4)</td>
<td>Select a county *</td>
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<tr>
<td>5)</td>
<td>Select a county *</td>
<td>0</td>
<td>0.00</td>
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<tr>
<td>6)</td>
<td>Select a county *</td>
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<tr>
<td>7)</td>
<td>Select a county *</td>
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<tr>
<td>8)</td>
<td>Select a county *</td>
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<td>9)</td>
<td>Select a county *</td>
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<tr>
<td>10)</td>
<td>Select a county *</td>
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<tr>
<td>11)</td>
<td>Select a county *</td>
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<td>12)</td>
<td>Select a county *</td>
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<td>13)</td>
<td>Select a county *</td>
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<td>14)</td>
<td>Select a county *</td>
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<tr>
<td>15)</td>
<td>Select a county *</td>
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</tr>
<tr>
<td>16)</td>
<td>Select a county *</td>
<td>0</td>
<td>0.00</td>
<td>0.00</td>
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<tr>
<td>17)</td>
<td>Select a county *</td>
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<td>18)</td>
<td>Select a county *</td>
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<tr>
<td>19)</td>
<td>Select a county *</td>
<td>0</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>20)</td>
<td>Select a county *</td>
<td>0</td>
<td>0.00</td>
<td>0.00</td>
</tr>
</tbody>
</table>

**Footnote 1:** If you are unable to locate the occupation in the pull down menu, please click on this link for specific information assistance.

[http://www.doti.ca.gov/database/delis/indexpwad.html](http://www.doti.ca.gov/database/delis/indexpwad.html)

**TOTAL AMOUNT:** $ 0.00

When done with some or all the entries above, please carefully review and then enter the green code you see below:

---

**August 2014**
The electronic submission of the CAC-2 Form is to be used in place of the previous CAC-2 Form that was submitted on LCPtracker. This form can be retrieved at: https://www.dlr.ca.gov/das/tf/cac2.asp. You need to have a working printer currently connected to your computer in order to print the complete paper form in the end of this session so that you can mail it with your payment. Payments are to be mailed to State of California, Department of Industrial Relations, California Apprenticeship Council, and P O Box 511283, Los Angeles, CA 90051-7838.
City of SACRAMENTO

Please use a separate form for each jobsite, listing the occupations for the jobsite and dollar amount paid for each classification. Once checks have been sent to the appropriate JATC please upload this form to LCPtracker under the e-Documents tab. A letter from the specific JATC or Union specifying that the required Training fund contributions and Fringe Benefits were paid will be accepted as proof of payment.

**Training Fund Contributions are due on the 15th of each month**

PLEASE TYPE OR PRINT IN BLACK OR BLUE INK. ALL FIELDS MUST BE FILLED IN TO ENSURE COMPLETION OF LABOR COMPLIANCE REQUIREMENTS.

<table>
<thead>
<tr>
<th>NAME AND ADDRESS OF CONTRACTOR/SUB CONTRACTOR MAKING CONTRIBUTION</th>
<th>CONTRACTOR'S LICENSE NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>CONTRACT OR PROJECT NUMBER</th>
</tr>
</thead>
<tbody>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>NAME AND ADDRESS OF PUBLIC AGENCY AWARDING CONTRACT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>JOBSITE LOCATION (INCLUDE COUNTY) IF APPLICABLE - GIVE NAME OF SCHOOL, HOSPITAL, BUILDING, etc.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>PERIOD COVERED BY CONTRIBUTION (FROM - TO)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CLASSIFICATIONS OF WORKERS (CARPENTER, PLUMBER, ELECTRICIAN, ETC.)</th>
<th>COUNTY WORK PERFORMED IN</th>
<th>ALL HOURS</th>
<th>CONTRIBUTION RATE PER HOUR</th>
<th>AMOUNT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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<table>
<thead>
<tr>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>IF APPRENTICES WERE EMPLOYED, PLEASE LIST THE APPRENTICESHIP PROGRAM AND NUMBER OF APPRENTICE HOURS WORKED</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>TYPE OR PRINT YOUR NAME AND TITLE</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>EMAIL</th>
<th>AREA CODE &amp; TELEPHONE NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>

CAG 2 Union Contractors (rev 10/14)
# Authorization for Payroll Deduction

**Project Name:**

**Project Number:**

**Employee Name:**

1) **Reason for Deduction:**
   - Percentage/Amount of Deduction: %  
   - OR $$
   - Start Date
   - Frequency of Deduction:
   - Termination Date:

2) **Reason for Deduction:**
   - Percentage/Amount of Deduction: %  
   - OR $$
   - Start Date
   - Frequency of Deduction:
   - Termination Date:

3) **Reason for Deduction:**
   - Percentage/Amount of Deduction: %  
   - OR $$
   - Start Date
   - Frequency of Deduction:
   - Termination Date:

4) **Reason for Deduction:**
   - Percentage/Amount of Deduction: %  
   - OR $$
   - Start Date
   - Frequency of Deduction:
   - Termination Date:

5) **Reason for Deduction:**
   - Percentage/Amount of Deduction: %  
   - OR $$
   - Start Date
   - Frequency of Deduction:
   - Termination Date:

6) **Reason for Deduction:**
   - Percentage/Amount of Deduction: %  
   - OR $$
   - Start Date
   - Frequency of Deduction:
   - Termination Date:

---

I authorize (Employer):

to process the deductions from my payroll as noted above.

Employee Signature: ___________________________ Date Signed: ______________________

---

**Instructions:**

1) Submit into LPCTracker
2) Keep signed originals
Contractors Certificate of Completion – Form 264

To be completed by the Prime Contractor at time of completion.

<table>
<thead>
<tr>
<th>Project Name &amp; Number</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Contractor Name</td>
<td></td>
</tr>
</tbody>
</table>

I, ____________________________ (Name), ____________________________ (Title) of ____________________________ (Company Name), declare under penalty of perjury that:

I know of my personal knowledge, and do hereby certify, that the work of the contract described above has been performed, and materials used and installed in every particular, in accordance with, and in conformity to, the contract drawings and specifications.

The contract work is now complete in all parts and requirements, and ready for your final inspection.

I understand that neither the determination by the Engineer-Architect that the work is complete, nor the acceptance thereof by the City, shall operate as a bar to claim against the Contractor under the terms of the guarantee provision of the contract documents.

Executed this ______ day of ____________________ 20____, at ____________________, California.

__________________________________  __________________________  ____________
Signature                          Title                               Date
Checklist of Documents Required for Labor Compliance on LCPtracker.net

✓ PW300 - This is due and needs to be uploaded prior to start of work. If any changes are made or substitution of sub-contractors are approved a new form should be uploaded and Labor Compliance should be notified.

✓ Authorization Letter for Signing Certified Payroll - This is due prior to the submission of the first Certified Payroll Report and must be signed.

✓ Checklist of Labor Law Requirements - prime due this on or before starting the start of work on the jobsite, subs need to have this finished prior to starting work on the job. All boxes must be checked, and it must be signed.

✓ Fringe Benefit Statement - due with first CPR and must be submitted for each subcontractor as well. ALL FRINGES TO BE REPORTED WITH HOURLY AMOUNT

✓ DAS140 - due prior to commencing work on a project (one for each determination)

✓ DAS142 - due 72 hours prior to the report date on a project (one for each determination)

✓ CAC2 - due monthly, one for each determination (due on the 15th day of the month for work performed during the preceding month) If Union Contractor please upload for with amounts paid and where money was paid to even if it is not the CAC.

✓ Training Fund Contribution Confirmation Letter – this is due monthly for the duration of the project. Both CAC-2 and Training Fund Contribution Letters are to be uploaded to LCPtracker.net.

✓ CPR’s - Certified payroll is due within 10 days of pay period end date

LCPtracker.net phone support is available via live chat through their website, by phone at (714) 669-0052 Option 4 (if they do not pick up please leave a message and they will get back to you. All calls are logged in with a date and time, but if you don’t leave a message you will not get a phone call back) and by E-mail at support@lcptracker.com. To assist those at support please include your User ID, a direct call back number, contact name and a brief description of the issue you are facing.

All forms are available under the e-Documents tab on LCPtracker. It is best practice to use the forms that have been provided to you under that e-docs tab to increase efficiency in processing pay request and remain compliant.
Helpful Links and Contact Information

- **Department of Industrial Relations (DIR):**
  - Web-Link: [http://www.dir.ca.gov/](http://www.dir.ca.gov/)
  - Contact DIR: [http://www.dir.ca.gov/Contactus.html](http://www.dir.ca.gov/Contactus.html)

- **Division of Labor Standards Enforcement (DLSE):**
  - Web-Link: [http://www.dir.ca.gov/dlse/dlsedepublicworks.html](http://www.dir.ca.gov/dlse/dlsedepublicworks.html)

- **Division of Apprenticeship Standards (DAS):**
  - Web-Link: [http://www.dir.ca.gov/das/das.html](http://www.dir.ca.gov/das/das.html)

- **Apprentice Certification:**
  - Web-Link: [http://www.dir.ca.gov/das/appcertpw/AppCertSearch.asp](http://www.dir.ca.gov/das/appcertpw/AppCertSearch.asp)

- **CAC Public Works Training Fund Contributions:**
  - Web-Link: [http://www.dir.ca.gov/CAC/trainingfund/TIsearch.html](http://www.dir.ca.gov/CAC/trainingfund/TIsearch.html)

- **California General Prevailing Wage Determination:**
  - Web-Link: [http://www.dir.ca.gov/OPRL/pwd/](http://www.dir.ca.gov/OPRL/pwd/)
    - (Journeymen)
    - (Apprentice)

- **Davis Bacon Wage Determination Rates:**

- **Public Works Information - Frequently Asked Questions:**
  - Web-Link: [http://www.dir.ca.gov/das/publicworksfaq.html](http://www.dir.ca.gov/das/publicworksfaq.html)

- **LCPtracker.net**
  - Web-link: [https://lcpprod.lcptracker.net/Lcp/WebForms/Login.aspx](https://lcpprod.lcptracker.net/Lcp/WebForms/Login.aspx)
  - Support Phone Number: 714-669-0052 Option 4
  - E-mail: support@lcptracker.com
THINGS TO REMEMBER:

Labor Compliance Forms due Prior to Work Beginning (Prime and all Sub Tier Contractors)

1) Authorized Letter for Signing Certified Payroll (Original signature required)
2) List of Trades and/or Crafts
3) PW-300 - List of all sub-contractors and suppliers. (This must be updated if changes occur and all contractors listed must have a DIR registration number prior to commencing work on the project.
4) Checklist of Labor Law Requirements- (All boxes checked and signed)
5) Public Works Contract Award Information (DAS 140) (With verified proof of service)
6) Request for Dispatch of an Apprentice (DAS 142) (With verified proof of service)
7) Fringe Benefit Statement Form- (For Each Determination)
   (Due before first Certified Payroll and then only when a change occurs)
8) Authorization for Payroll Deduction (Original signature required)
   (Deductions other than standard deductions must be authorized by the employee)

Labor Compliance Forms Due Weekly:
- Certified Payroll Form (LCP Tracker Electronic Payroll and upload of payroll to DIR website)
- Statement of Compliance (LCP Tracker Electronic Payroll)
- Statement of Non-Performance (Due when work is not performed once on job-site)

✓ Work over 8 hours in a day or 40 hours in a week must be paid at the overtime rate. Refer to wage determination that is provided by the DIR for the applicable rate.
✓ Certified payroll records must be numbered consecutively, starting with the first week work is physically performed on site
✓ Last certified payroll must be marked “FINAL”.

Training Fund Contribution forms are due monthly beginning immediately after work has been performed on site.

---

**Single Asterisk (**)**:  
Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Division of Labor Statistics and Research for specific rates at (415) 703-4774 for the new rates after 10 days from the expiration date, if no subsequent determination is issued.

**Double Asterisks (****)**:  
The rate to be paid for work performed after this date has been determined. If work will extend past this date the new rate must be paid and should be incorporated in contracts entered into now. Contact the Division of Labor Statistics and Research for specific rates at (415) 703-4774.

**Employee Interviews on job site**:  
Interviews are done to obtain information to verify correct wages are being recorded on the certified payrolls for the given craft/classification and to ensure contract compliance.
Contractor Quick-Start Guide
Here at LCPtracker (Labor Compliance Program Tracker), we are aware that using a Prevailing wage software may be a new undertaking for many Contractors. We have designed this guide to explain what LCPtracker is used for and how to start using the software.

LCPtracker has been in business since 2001, and we are constantly changing to better suit your labor compliance needs. LCPtracker is used by over 200 Government Agencies and 55,000 Contractors.

LCPtracker is an online, cloud-based software company that provides users with the proper tools to easily ensure that each contractor is meeting prevailing wage guidelines as well as to easily create the detailed reports that can be required by agencies like the United States Army Corp of Engineers or the FHWA.

Whether it's Davis-Bacon laws that are set by the United States Department of Labor (USDOL), California prevailing wages set by the Department of Industrial Relations (DIR), or any other labor laws set by a specific state or local government agency, LCPtracker makes it easy to guarantee that every Contractor is compliant.

HOW DOES IT WORK?

The LCPtracker service is a paperless, online system of entering Certified Payroll Reports (CPRs). Payroll data may be entered directly into the system, or uploaded from major construction accounting systems or payroll programs. This service eliminates the need for Contractors to submit paper documents and forms while providing an online database that stores all CPRs.

All contract-specific wage rates, fringe rates and worker crafts/classifications are online within the system, and Contractors may then select craft/classifications from a drop-down menu. Potential errors in wage rates or work classification entries are flagged to Contractors preemptively, allowing them to correct data prior to submittal. (This is contingent on how the Agency sets up their project validations.)

A few of the immediate benefits experienced by using LCPtracker are:

- All Contractor reports are available instantly to Contractors in hardcopy and electronic format.
- No need to mail in paperwork! Payrolls will be submitted electronically.

There is no cost to Contractors for this service or for online training and we have a dedicated Support staff available Monday through Friday from 5:00am until 5:30pm PST.
CONTACTING LCPtracker SUPPORT

Contractors may access the various options for training after receiving a User ID and password, which will be sent by a “no reply” email address from LCPtracker (i.e., NOREPLY@LCPtracker.com). This email, with login instructions, will be sent to Contractors once they're assigned to an account in LCPtracker by your Agency or Prime Contractor. Every Contractor account is created by the Agency or their Prime Contractor. Complete and full support is offered directly to Contractors by LCPtracker for any technical questions on the use of the software.

Contact LCPtracker Support

- 714-669-0052 option 4; or
- Support@LCPtracker.com; or
- Live Chat

If you send the Support Team an email or prefer to leave a voice message, LCPtracker asks that you include the information listed below. (Because of the high number of users stored within LCPtracker, we cannot look up your account with only your company name or project you are working on.)

- Your Company Name
- Your User ID
- Your Name and Phone Number
- What the issue is – please be as specific as possible so we can re-create the issue

LCPtracker Training Options

Contractors may access the various options for training after receiving a User ID and password. An email with login instructions will be sent to Contractors once they are assigned to an account in LCPtracker. Every Contractor account is created by the Agency or their Prime Contractor.
ADD/EDIT EMPLOYEE

To add an employee into system or edit someone already in system, click on **Set Up** and then **Add/Edit Employee**.

Add / Edit Employee Information

This section is used to enter Contractor employees and their personal information. Enter the appropriate employee information in the data fields. Tab key or mouse click to move between fields. Any **RED** asterisk field is required by the Agency, and the system will not save unless the information is entered in the required fields.

Default Hourly Paid Fringes (As paid to Fund on behalf of employee)

This section is known as a "time saver". You may wish to fill in the hourly fringe rates in this section. This will allow for ease of use when entering payroll records manually, as you will be able to click the "calculate fringes" button on the Payroll Entry screen, and the system will perform the mathematical calculation of the hourly fringes multiplied by the hours worked. (Keep in mind that if you have any predetermined increases, or your Union updates once a year, you will need to come back to this section and update your fringes accordingly.)

If you have multiple projects with different fringe rates, built in increases, or everyone has the same fringes and you only want to enter those dollar values once, you may wish to skip this section and use the Fringe Benefit Maintenance table to enter your hourly fringe rates into system. (Note that any fringe amount entered in this section will supersede the fringe amount entered in that time saver section of the employee setup.)
Default Other Deductions Notes

Any deduction that is permissible according to the USDOL or your Agency (such as IRS garnishments, child support, a company loan, etc.) would fall under this “other” deduction section. Any amount listed in “other” will then dictate that “other deduction notes” is required. You can always come back and add/edit the employee and enter value in this section to save yourself time.

1. PAYROLL RECORDS

There are five methods of payroll entry available to all Contractors:

1. Copy Payroll feature in LCPtracker
2. Upload from a payroll system export file
3. Upload from the Excel spreadsheet
4. Direct Payroll Subscription / Interface (DPI)
5. Manual entry

We will be discussing manual entry in detail below, but here is some information regarding the other four:

1. COPY PAYROLL

This option is only available if you have already completed a week of payroll. Once you’re in the Payroll Records tab, simply click on the “Copy Previous Payroll” button, select your project, then select the CPR you’d like to copy.

2. UPLOAD FROM A PAYROLL SYSTEM EXPORT FILE

From the Payroll Record tab, click on the “Upload Records” button. Further click on the “Accounting Systems” button, and you will see a partial list of the payroll companies that we have partnered with to create a payroll interface, or export file. To see a complete list of payroll interfaces available, please visit www.lcptracker.com, and click on Partners>Payroll Interfaces. If you do not find your payroll company, and would like to see if there is an opportunity to partner, please fill out the informational form listed under the “Upload Records” section and someone from LCPtracker will contact you.
You can click on the name of your payroll company, and you will either find a list of directions on how to obtain your export file, or you will see a request that you contact your payroll company directly for instructions on how to obtain that export file.

Once you have it, you can use it to upload your CPR from that “Upload Records” button. For more information, feel free to either contact Support, or look in the Training Materials section for more detailed instructions.

3. UPLOAD FROM THE EXCEL SPREADSHEET

LCPtracker has an Excel spreadsheet template available for you to download in the same “Upload Records” section mentioned above. There is a legend as well as instructions available on the Excel template.

You can manually enter info into this Excel spreadsheet, or you can confer with your IT department to see if they can utilize this spreadsheet to create a report out of your existing payroll system.
4. DIRECT PAYROLL SUBSCRIPTION / INTERFACE (DPI)

This is another option available to Contractors who would prefer to not enter their CPRs manually, do not want to use the Excel spreadsheet, and do not use a payroll company that LCPtracker partners with. You can choose to have LCPtracker map your existing payroll so that you may use it (as a PDF or .CSV file) as an upload file. Once you have it, you can use it to upload your CPR from that "Upload Records" button.

For more information, feel free to either contact Support, or look in the Training Materials section for more detailed instructions.

5. MANUAL ENTRY

You will enter a record each week for every employee that performs work covered by prevailing wages on their project. If your employee works in more than one classification (i.e., they’ve worked 20 hours as a Carpenter and 20 hours as a Power Equipment Operator) please enter two separate pay records to show that they are being paid according to the work performed.
AMOUNTS PAID (top section of the Payroll Record Entry Form)

Enter the appropriate amounts in the appropriate sections. Keep in mind this is just a transfer of historical data from your already existing payroll records.

<table>
<thead>
<tr>
<th>Payroll record entry form (2 of 2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Week End Date: 6/3/2018</td>
</tr>
<tr>
<td>Contractor: Darren's Demo</td>
</tr>
<tr>
<td>Project: M59 Realignment</td>
</tr>
<tr>
<td>Sub To:</td>
</tr>
<tr>
<td>Employee: DUCK, DONALD</td>
</tr>
<tr>
<td>Contract ID: 5</td>
</tr>
<tr>
<td>Is Foreman □</td>
</tr>
<tr>
<td>Is Owner/Operator □</td>
</tr>
<tr>
<td>Gross Employee Pay This Project</td>
</tr>
<tr>
<td>(Usually No Fringes)</td>
</tr>
<tr>
<td>Pay Rate:</td>
</tr>
<tr>
<td>Wages Paid in Lieu of Fringes</td>
</tr>
<tr>
<td>(Total Cash Fringes)</td>
</tr>
<tr>
<td>Base Hourly:</td>
</tr>
<tr>
<td>Overtime Hourly:</td>
</tr>
<tr>
<td>Doubletime Hourly:</td>
</tr>
<tr>
<td>Rate in Lieu of Fringes (Cash Fringes)</td>
</tr>
<tr>
<td>50.000</td>
</tr>
<tr>
<td>0.000</td>
</tr>
<tr>
<td>0.000</td>
</tr>
</tbody>
</table>

Gross Employee Pay This Project – The amount of basic wages paid for this project only. This is typically the hourly rate of pay multiplied by the hours worked (it could be more complex with overtime figured in).

Wages Paid in Lieu of Fringes – The amount paid to the employee instead of fringe benefits paid to a plan, fund or program. This amount is sometimes included in the Gross Employee Pay this Project depending on the accounting system and the agency reporting requirements. (Whether you are a Union Shop or Open Shop typically determines whether you pay these required fringes to an approved plan, fund or program, or pay them directly to the employee in cash.) This amount would be the rate-in-lieu of Fringes multiplied by the number of hours worked.

Rate-in-lieu of fringes – The hourly rate paid-in-lieu of fringes. If you pay your employees directly for the required fringe benefit instead of paying into an approved plan, fund or program, please list the hourly rate paid here.

Base Hourly – The hourly rate of pay not including fringes. Some accounting systems include taxable fringes and fringes paid-in-lieu in this amount, do not include those in this field

Overtime Hourly – The hourly rate of pay multiplied by a factor of 1.5. Do not include fringe benefits in this equation, unless specifically called for by your Agency.

Doubletime Hourly – The hourly rate of pay multiplied by a factor of 2. Do not include fringe benefits in this equation, unless specifically called for by your Agency.
CLASSIFICATIONS

This section lists the craft and classification that your employee worked on your project and will be paid for. If you mistakenly choose the wrong classification on the original entry page, you may change it here by clicking on the Edit button. (Please remember that if your employee worked in more than one classification within this work week, you will need to enter a separate payroll record for that classification.)

<table>
<thead>
<tr>
<th>Jurisdiction</th>
<th>Location</th>
<th>Craft</th>
<th>Classification</th>
<th>Construction Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Federal Wages</td>
<td>Huron County, MI</td>
<td>Carpenter</td>
<td>Carpenter - Pending USDOL 02/01/2017</td>
<td>Highway</td>
</tr>
</tbody>
</table>

HOURS WORKED EACH DAY FOR THIS PROJECT ONLY

Enter the hours worked each day. The first row is for regular time worked, the second row is for overtime worked and the third row for is for double time worked. You ONLY enter hours worked on this prevailing wage job for this week. The system will total each type of hours worked, the days worked and the week under the totals hours column.

<table>
<thead>
<tr>
<th>Hours Worked Each Day for This Project Only</th>
</tr>
</thead>
<tbody>
<tr>
<td>Regular Time</td>
</tr>
<tr>
<td>Overtime at 1.5</td>
</tr>
<tr>
<td>Double-Time</td>
</tr>
<tr>
<td>Total</td>
</tr>
</tbody>
</table>

FRINGES/CONTRIBUTIONS PAID TO OTHER (NOT EMPLOYEE) FOR THIS PROJECT ONLY

You may utilize this section in two different ways:

1. Auto calculate
2. Manual entry

The first is by simply clicking the Calculate Fringes button so that the system automatically calculates the fringe benefit rates paid. This only works if you filled out the hourly fringe benefit rates in the Add/Edit Employee screen (or the Fringe Benefit Maintenance section, also available in the Set Up tab). This function multiplies the hours worked times the fringe benefit rate to get the values.

The second way is to manually enter the total amounts paid per section (Vac/Hol/Dues, Health & Welfare, Pension, etc.) from your payroll register or paystubs. Mark the appropriate check boxes as required. If they are checked in the Add/Edit Employee setup then that value carries over.
PAYCHECK – DEDUCTIONS, PAYMENTS AND NOTES (values entered in this section apply to all hours worked on all projects during the week.)

Deductions - the Total Deductions box will add as you enter values in the taxes, other deductions, Vac/Dues and Savings fields.

Other Deduction - this field is for permissible deductions that do not fall into the other available fields. If you put an amount in the Other deductions field, an Other Deduction Note will become required.

Trav/Subs - this field is for travel or subsistence paid to your employee. This amount does figure into the mathematical calculation that the system to ensure that Gross and Net pays are correct.

Gross Pay All Projects – the gross amount on the paycheck for the week including all projects worked.

Paycheck Amount – this is also referred to as Net pay. This is the actual amount of pay the employee received.

Check Number – you have the option of putting different information in this field. If you hand out actual checks to your employees, please enter the check number in this field. If you utilize direct deposit and no check numbers exists, enter “DD”.
Payment Date – this is the actual date of the paycheck. Not all Agencies require this field.

Notes – this is a section that allows you to communicate anything out of the ordinary that you would like your Agency to know.

Other Deduction Notes – if you entered a permissible deduction in the above-mentioned field, then you will be required to leave a note describing that deduction. Please remember to be transparent in your notes entered. We recommend that you list what the actual deduction is, and not write “other deduction” or “N/A”.

WHEN YOU HAVE COMPLETED ALL THE ABOVE-MENTIONED FIELDS, CLICK SAVE.

SAVE WITH NO NOTICES

With a successful save you will get this message:

SAVE WITH NOTICES

If you do not get this message, look for the RED message on the screen. You may have to scroll up or down on the payroll record to see what you have missed that may be a required field.
2. NOTICES

Once you have entered all payroll records for the week, you should go into the Notices tab to check and see if you have any payroll Notices. Your records have been saved: perhaps there are issues ranging from forgetting to add an employee ID or phone number to forgetting to enter the Gross Employee Pay This Project field at the top of the Payroll Record Entry screen.

If you have an employee who shows up in this screen, you will need to clear that notice.

To clear your notice, click on the Edit button to the right of the employee name. From there, you will be taken back into the Payroll Record Entry screen. Scroll down the bottom and you will see detailed notes on exactly what your notice is.

If you do not understand the notice, you have options on how to get help. You can click on the Video Assistance “Play Now” button and you will see a video that explains what the notice is and how to address it, or you can contact our Support department and they will assist you.

You must clear all notices to certify your payroll.

3. CERTIFICATION

You are almost finished, and now it’s time to certify your payroll. You will do this for each week beginning when you first start work on your project until the last week on the project.

You have three options available to you when you certify your payroll:
- Certify a payroll for a week during which work was performed
- Certify a payroll for a week during which no work was performed (non-work week payroll)
- Certify a payroll for multiple consecutive weeks during which no work was performed
CERTIFICATION WIZARD, STEP 1 OF 2

To certify your payroll:
- Choose your project
- Choose the type of payroll you are certifying
- Choose your week ending date (if you choose multiple consecutive weeks, you will enter the start date and the last date)
- Enter your name as the person certifying your payroll
- Enter your title
- Click next

CERTIFICATION WIZARD, STEP 2 OF 2

You are now seeing your Statement of Compliance (SOC) portion of your certified payroll report. You are just a few clicks away from certifying your payroll.

You now need to denote how you pay your fringe benefits (if you do both, you may choose both):
- 4a – paid into an approved plan, fund or program
- 4b – paid in cash to the employee
- 4c – section to note any exceptions you might have, per craft/classification.

If you have any final remarks that you’d like to leave for your Agency, there is a section available to you to do so. Note: this field is mandatory is you are recertifying a CPR.

You may also click on a checkbox to note if your CPR is a final.

Lastly, you will put in your eSignature and click Save. This completes your CPR, and it will pop up in another window so long as you have your pop-up blocker turned off. (If you forget your eSignature, go back to the Set Up tab, edit your eSignature, and then go back to the Certification Tab and follow the above procedures again.)

Congratulations

You have now completed certifying your payroll.

Your CPRs are electronically sent to your Administrator, and unless otherwise specified, there is no need to send or print out a hardcopy unless you would like to do so for your own records.
Remember that your CPR’s will always be stored in your account to access at any time, so you may decide not to print out hardcopies.

**CALIFORNIA DIR XML UPLOAD**

If you perform work on a California Public Works project, you also need to upload your payroll to the Department of Industrial Relations (DIR) eCPR system. Once you've certified your payroll, you can download the DIR XML file to upload.

Instructions to find and upload this file:
- Click on the Projects tab
- Click on the Certified Payrolls tab
- Locate the week ending payroll file you need
- Click on the DIR XML button (make sure your pop-up blockers are off)
- Save this file to your desktop
- Upload into the DIR eCPR system

Should you find that you have any further questions, please consult either the Contractor User Manual or call our Support department.

**Contact LCPtracker Support**
- 714-669-0052 option 4; or
- Support@LCPtracker.com; or
- Live Chat
CERTIFYING PAYROLL RECORDS

Certification is the process of submitting your certified payroll report. To certify, all the payroll records must be notice free. The payroll certification is a two-step process.

CERTIFICATION STEP 1

In the first step, the user needs to:

- Select a **project** from the drop-down list
- Choose if the **week is performing or not**. This, by default, is set to “Work activity to be reported for this week”.
- The **week end date** which should be the same as the payroll records you just entered
- **Payroll number**, which is usually 1 for the first week on project, 2 for second and so forth
- **Name of the person** certifying the payroll and their **title**

Be sure you are choosing the same project that you just entered payroll records for under the 1. **Payroll Records** tab. As mentioned previously, be sure that if you are assigned to more than one project that you are entering payroll for the correct project. As of this publication, if the project name or the week end date are incorrect you will have to delete and begin again, with the correct project name being chosen as well as the correct week end date for your company. Clicking **Next** will take you to step two of the certification.

NON-PERFORMING WEEK

If no work was performed during the week, you can skip steps 1 and 2. You will go straight to 3. Certification, be sure you are choosing the correct project to submit for, especially for those of you that are assigned to more than one project.

If you have only one week of non-performance, follow steps as previously shown. Change 2. **Work performed this week?** to the option **No work activity to be reported for this week**, and proceed.

For multiple weeks of non-performance under 2. **Work performed this week?**, choose **No work activity to be reported for multiple consecutive weeks**. You now have two calendar fields. It’s extremely important that you enter the dates.
correctly. The left side should be the week end date of the 1st week not on the project and the right side will be the last week not on the project. Please note both fields should be the same day of the week.

**CERTIFICATION STEP 2**

Step two of the wizard will be the Statement of Compliance (SOC). Depending on the agency you’re working under, the settings will determine what the SOC will look like. It’s highly suggested that you read the SOC before entering your eSignature and submitting. There are also some options for some under **number four of the SOC**, you may be required to check one or the other of those boxes, while some may have both already checked. On the SOC there is a box to check ONLY IF the payroll you are about to submit is the final. If not your final submission, then do not check the box.

If you are unable to proceed to the Statement of Compliance (SOC) due to un-resolved notices or required eDocuments, read the note(s) carefully. To resolve any issues with payroll, go to the notices navigation tab (review 2. Notices) and if you have required eDocuments that have not been submitted or have expired you will need to upload eDocuments (review eDocuments).
EDITING CERTIFICATIONS

To edit a payroll that has already been certified go to Projects > Certified Payrolls. Payroll records can be **added** to the certification, **deleted** from the certification or existing records can be **edited**. You may also **update the payroll number** or **change the final yes to no**, or vice-versa, if necessary.

| Project Name | Certification | Contract ID | Due Date | Max Date | Num of Days | Num of Payroll
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LCP COMMUNITY CENTER</td>
<td>YES</td>
<td></td>
<td>07/15/2015</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

You cannot however delete the entire week completely from the system, only primes/administrators and/or the agency in charge can do this. Click on the **Show Info** for that contact information and typically they will only delete if the incorrect week end date or if you submitted under the incorrect project. (see **1. Payroll Records**).

Select **Projects > Certified Payrolls** and choose the **project** from the drop down. The screen will then refresh. Click **Edit** next to the week you wish to edit. The more CPR’s you have submitted the more **page numbers** you will have.
If you are locked out and unable to edit due to permitted days to edit exceeded, you need to locate the contact for the project. You can do this on the Projects tab. Find the project you wish to edit and click on the Show Info button. You can start with that contact name/email. **NOTE:** LCPtracker cannot give permission to edit payrolls; this is a function of the Prime/Administrator and/or Agency in charge.
PAYROLL RECORD ENTRY FORM

This screen is used to enter payroll records one at a time. LCPtracker has included utility for contractors to load payroll information from a spreadsheet to save time. Details for this process are provided in the section UPLOAD RECORDS of the Contractor instruction manual. For a quick one page screen shot, you may skip to the last page.

The second step in the Payroll Entry process is shown below. The upper portion of this screen self populates from the data entered in step one. You can tab through this screen or use your mouse to click in fields to enter data.

Each section and field of the Payroll Record Entry Form will be explained. NOTE: some fields that are optional in the initial setup process by the Agency are the Wages Paid in Lieu of Fringes and the Rate in Lieu of Fringes. If your Agency chose not to allow this feature, you will not see these 2 fields in your Payroll Record entry form page 2 of 2.

This is a WEEKLY reporting form, you report hours worked for the week being reported on, this is not an accumulation. All fields are for the week you are reporting hours worked and wages paid.

Optional Wages Paid In Lieu/Rate In Lieu fields available for use:

Optional Wages Paid In Lieu/Rate In Lieu fields NOT available for use:
There is also the ability for Administrators and/or Primes to require Work Orders for Payroll Entry. If the Project is associated with Work Orders and that section of Project setup is checked (Administrator action only) you will see Work Orders as an option. If you are a **Prime Contractor** be sure to review the work order Setup section. Prime Contractors can define work order numbers.

Note: if the **Work Order** option is showing and there are no Work Orders to choose from in the drop down, please contact your Prime or go to Projects tab and click the “Show Info” for that Project and start with that contact.

**Gross Employee Pay this Project** should be equal to the hourly rate fields x the hours posted on this payroll record. This amount does NOT include fringes. It is usually the amount that is provided by your payroll system. If you pay additional **Wages Paid in Lieu of Fringes** then enter this amount in that field.

**Wages Paid in Lieu** should be equal to the Rate in Lieu x the hours posted on this payroll record. **Wages Paid in Lieu** are those amounts paid to the employee when no fringe benefits are paid or when the fringe benefits paid are insufficient to meet the required total hour rate of pay.

**Gross Pay All Projects** should be employee’s Gross Pay for the week regardless of what Projects were worked on.

Here we show how the Gross Employee Pay field is equal to the hourly rates x the hours posted and then the Wages Paid in Lieu of Fringes is equal to the Rate in Lieu x all hours posted.
Classifications
The Craft/Classification (Journey Level) may be edited if incorrect by clicking on the Edit and making another choice. Below we show the classification section for both those that have only one craft/classification as well as an example for someone with more than one Jurisdiction and/or Location to choose from. All are editable at any time.

Regardless of one Craft/Classification (Journey Level) or more for those with Multiple Jurisdictions and/or Locations, all can be edited if needed in the Payroll Record Entry Form (page 2 of 2).

Hours Worked Each Day
The Hours worked each day should ONLY be the hours reported for working on this project for the week you are reporting on. Again this is not accumulative. Under this section titled Hours Worked Each Day enter the number of Regular Time (Straight-time), Overtime at 1.5 and Double-Time hours worked each day for the payroll period (one week).
The Screen automatically adjusts the weekly payroll period to reflect your week-end-date. As laid out in the beginning of the Enter Records section.

**Fringes /Contributions paid to others (not employee) for this project only**

If you entered the hourly rate of fringe benefits in the Employee Setup or Fringe Benefit Maintenance table then click the “Calculate Fringes” button. The calculated fringe amounts can be edited if required. The feature will take the hours posted in the Hours worked section of the Payroll Record and multiply them by the fringe benefit rates. (This Function may NOT be available to you).

If you did not enter the rates, then enter the Fringe /Contributions (This Project Only). Enter the appropriate amount for each of the categories in this section. If there is no data for a box, leave it blank. This example there is 55 hours total; 40 regular, 10 overtime and 5 double-time. We noted in red what the hourly values are in the Employee setup.
The "more links" below the Vac/Hold/Dues and Pension explains additional detail. Here we will present that detail.

**Vacation / Holiday Directions**
The entering of information for Vacation and Holiday pay is causing confusion. The following is a more detailed explanation of the entering of Vacation and Holiday pay.

**Case 1** Vacation and Holiday is paid to the employee as additional wages. Enter the paycheck gross amount as part of the Gross Employee Pay This Project. Enter $0.00 in the fringe benefit area and check the Vac/Hol/Dues in Gross Emp. Pay box.

This would be what you consider the employees Hourly Rate of Pay. You are paying it as part of the wages and would be factored as part of overtime/double-time factoring if hours worked. The hourly rates x the hours posted would equal the Gross Pay This Project field.

**Case 2** Vacation and Holiday is included in the paycheck to calculate taxes but is paid to another fund (union) and thus deducted from the paycheck. Enter the paycheck gross amount as part of the Gross Employee Pay This Project. Enter the Value in the fringe benefit area and check the box that says Vac/Hol/Dues Included in Gross Emp. Pay. In this scenario you would also show the deduction in the Deductions, Payments and Notes (taxes) section under the Vac/Dues field.
Case 3  Vacation and Holiday is not included in the paycheck. The Vacation and Holiday is only paid to a fund and taxes are assessed when paid. Enter the amount of the Vac/Hol in the field. Check the Vac/Hol/Dues Included in Gross Emp. Pay box. It would only be part of the Gross Pay This Project if the employee takes and is being paid for. So you are showing the Fringe value, however it is not sent to any fund (union) or assessed taxes until it is taken.

Case 4  Vacation and Holiday is accrued and taxes are assessed when paid. Enter the amount of the Vac/Hol/ Dues in the field. This approach may not be accepted by some agencies.

**Voluntary Pension and Medical Contributions**

Voluntary Pension and Medical Contributions are additional payments to an approved pension and/or health care funds that the employee elects to take out of his/her Gross Employee Pay this period before taxes.

These voluntary contribution amounts are part of the Gross Employee Pay this period but some payroll systems do not show it as such. If your accounting system does not include these amounts in the Gross Employee Pay this period enter the hourly rates of such amounts in the fields provided in Employee setup so that you may use the Calculate Fringe button when doing Payroll Records entry.

Be sure not to include it as part of the health & welfare payments you make on the employees behalf (fringe benefits company pays into an entity/union that benefits the employee)
**Deductions, Payments and Notes**
Enter your Deductions (taxes) and travel/subsistence pay as well as the Paycheck Amount (Net Pay), Check Number and any Notes for this current payroll you are entering.

The Paycheck amount and Check Number field is required field for the Payroll Record to save. The Check Number field will accept dd or DD for those that may have Direct Deposit vs. issuance of an actual Check. Once you are satisfied the data is accurate click the **Save** button.

![Deductions, Payments and Notes](image)

The Total Deductions will auto-add as you enter all taxes.

Any Travel/Subsistant pay use tieh Trav/Subs field.

If your agency is requiring you to report what ‘other’ deductions are you will also have to fill in this section in order for LCPtracker to save your payroll record. For Other Deduction Notes refer back to section – **Default Other Deduction Notes**.

![Other Deduction Notes](image)

If your agency is requiring you will have to fill out before system will save Payroll Record.
Wages Paid In Lieu of Fringes
Cash Rate per hour x the # of hours worked

Cash Rate in Lieu of Fringes
If Sub is short meeting Total hourly Rate with base rate & Fringes then an additional cash rate per hour may be paid to the employee

<table>
<thead>
<tr>
<th>Gross Employee Pay This Project</th>
<th>Wages Paid in Lieu of Fringes</th>
<th>Gross Pay All Projects</th>
<th>Hourly rate of pay</th>
<th>Hourly overtime rate</th>
<th>Hourly double time rate</th>
<th>Rate in lieu of Fringes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1600</td>
<td></td>
<td></td>
<td>50</td>
<td>75</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Fringe Section is hours worked times the rate per hour paid

In the Employee Set Up page you can create default fringe amounts to use as a time saver--Fields will auto-populate here by clicking Calculate Fringes (after hours worked are entered)

Frac & Dues / Contributions paid to others (not employee) for this project only

Vac / Hol / Dues / Health & Welf. / Training / All Other / Pension / Medical

Total Deductions

Deductions

Fed Tax / Social Security / Medicare / State Tax / Local Taxes/SD / Other

Other Deduction Notes

Notes

Anything in Travel/Subs could be explained in the Notes section too.

Any # in the other Deductions Field has to be explained here

Spellcheck

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**LCPtracker Excel Upload Template Updates**

**Contractor Database Area Affected:** 1. Payroll Records Tab > Upload Records > Download Spreadsheet Template

We have updated the color coding and descriptions of the columns in the free Excel template we offer Contractors to upload payroll data into LCPtracker.

We have also included new columns regarding the new New York additional benefit information and YTD Accumulated Sick Pay:

- **CU (FringesProvidedByEmployer)** - This box is checked if the Fringes Paid/Provided to Employee by Employer - **Specifically used for Payrolls in the State of New York**
- **CV (LocalUnionNumber)** - Used to enter Local/Union #, if fringes are Paid to a Union - **Specifically used for Payrolls in the State of New York**
- **CW (YTD_SickPayTime)** - Used to enter accumulative hours employee has earned towards sick time
New Feature- Daily Reporter Settings

LCPtracker recommends contacting your LCP Project Manager for assistance on proper set up of this feature. If you are unsure who to contact, please reach out to the LCPtracker Support Team for assistance on locating your assigned Project Manager.

Contractor Database Area Affected: Daily Reporter Tab > Daily Reporter Settings

Daily Reporter Managers will now have the ability to enforce or disable different sections of the daily logs for specific projects.
Copy Employees Function Updated

Contractor Database Area Affected: Set Up Tab > Copy Employees

The Copy Employees function will no longer copy “unreconciled employees” from a database utilizing Daily Reporter to another account. Unreconciled employees are generated when an employee is manually entered into a daily log in the Daily Reporter function.

Paychex File Update

Contractor Database Area Affected: Upload files produced from Paychex

New column in Paychex file will allow federal exemptions to be uploaded into the system
Additional Supplemental Benefit Information in NYC CPR Form-041

Please note that this feature will only impact Contractors working on certain projects utilizing LCPtracker. It is not a database-wide change.

**Contractor Database Area Affected:** 1. Payroll Records Tab > Enter Records and on CPRs

The City of New York’s certified payroll form requires that Contractors provide information specific to how an employee’s supplemental/fringe benefits are paid. (Outlined in red below.)

This functionality to comply with this reporting requirement has been added to the payroll entry form, specifically the “Fringes/Contributions paid to other” section, that Contractor’s see when entering in an employee’s weekly payroll record. The City of New York’s certified payroll form provides three options: U = Union, E = Employee, and O = Other. The choice(s) you make on this screen will transfer to the correlating “Paid To” line.

A checkmark in the checkbox for “Fringes Paid to Union? Union Local #” will auto-populate the “U” row on the Supplemental Benefits payment information section. A free-form field next to the checkbox will allow for the Contractor to insert their Union Local name/# specific to that employee. This will then list that Union Local name/# on the “U” row. By checking this box, you are stating that the supplemental/fringe benefits for that employee are being paid to their specific Union.
The next row, “E”, will automatically transfer to the certified payroll form if any amount is entered in to the “Rate in Lieu of Fringes” field on the payroll entry screen. (Outlined below in red.) By entering an hourly amount in this section, you are stating that the employee has supplemental/ fringe benefits paid/provided by the employer to the employee in cash. This will insert “X” for “Employee” on the certified payroll report.
Finally, a checkmark in the checkbox for "Fringes Paid / Provided to Employee by Employer" will auto-populate the "O" row on the Supplemental Benefit payment information section. By checking this box (outlined below in red), you are stating that the employee has supplemental/fringe benefits paid/provided by the employer to the employee. This will insert "X" for "Other" on the certified payroll report.
SUBCONTRACTOR SETUP

You will set up the subcontractor below you, and each contractor is responsible for setting up their own subs. Once you've set up your sub, they'll log into their account and then set up any subs beneath them. Their subs will then set up their own subs, and so on and so forth.

Contractor Set Up is a two-step process:

**Step 1: Contractor Setup > Add/Edit Contractor**

To add, simply fill in the data. Complete the data fields with information provided by your subcontractor. If it is a new entry, ignore the **Select a contractor to edit drop down**. If this is an existing user, you may have read-only access to their information.

Some contractors may already be a user of LCPtracker under another agency database. Ask your subcontractor if they are a current user of LCPtracker. If they are, ask them for their User ID that they currently use to log into the LCPtracker system. You will still be setting this company up with a "new" account under the Agency you are working in. Set them up with the same user ID under your Agency, and the system will automatically link their accounts for them. This prevents them from having to use multiple user ids.

The field marked **Contractor License No. or 10-digit Phone Number** is the field that ultimately becomes the user's ID number, and where you'll enter their existing user ID to link accounts if they have them.
Continue to enter in the rest of the required information on the Subcontractor Setup page and Save. The email data field is critical as this is how the LCPtracker Program is designed to communicate with system users. Please be sure the email address supplied is correct prior to saving the information to the database. Red asterisks fields are required in order for the system to Save information. Some Agencies may have additional requirements. When you are satisfied the information is correct, click Save. You will receive a pop-up telling you “Contractor has been sent an email notifying them. Don’t forget to assign this Contractor to project”.

**LCPtracker system will automatically email the subcontractor their User ID and Temporary Password.**

**Step 2: Contractor Setup > Contractor Assignment**

The next step after you have setup your subcontractors in the system is to assign them to the project(s).

You can click on Add New Assignment, on the top or the bottom.

![Add New Assignment](image)

**Select a department** – Optional, some agencies do not use this selection. You may choose the “Unassigned Contractors” to make the list shorter to view.

**Select a project** – You need to choose the Project that you are assigning your Subcontractor to.

**Contractor to be assigned** – Choose the Subcontractor you need to assign to Project as your Subcontractor. This is usually the Subcontractor you just set up in the system. Some however are
already in the system under this Agency and you just need to assign them to the Project as your Subcontractor. (Sco next soroon shot).

**Start Date** – Required by some Agencies, typically the date that your Subcontractor is to/or has started working on the project.

**End Date** – *Optional field*, some agencies want this information.

**Contract ID** – *Optional field*, some agencies want this information. The Contract ID is the ID of the contract between you and the subcontractor. If you do not have a Contract ID or numbering system be sure to assign a unique ID to this contract.

**Responsibility Code** – *Optional field*, some agencies want this information.

**Contract Amount** – *Optional field*, some agencies want this information. This is the amount of the contract between you and your subcontractor.

**Notes** – *Optional field*, some agencies want this information or you may choose to add your own notes.

After you have made your choices from the drop down and entered any required information, be sure to **Save**. Once you've saved, your sub will be sent a second email informing them they've been assigned to a project.

You will now see a saved `contractor assignment` listed in the Contractor Assignment Screen. The Date Assigned is a system generated Date Stamp. This is the date that the Contractor was assigned to the project.

### MULTIPLE CONTRACTOR ASSIGNMENTS

If you're finding a subcontractor has an existing account:

![Add or Edit Contractor Information](image)

*Add or Edit Contractor Information: Edit Mode*

To add a new contractor, enter information and save. To edit an existing contractor, select it from the list first. You can use all the contractors in the system. You can only add your new data after it has been imported.

**Department**
- *All Departments*

**Company Name (Contractor)**
- G Goode Co

**Federal Tax ID Number**
- 12345

**D-U-N-S Number**
- 7144188502

**PWCR Number**
- Contractor License No. or 10-digit Phone Number: 7144188502

**Contractor License (To Display on Certified Payroll)**
- Contractor License Expiring Date:
But you're not able to find them when assigning them to a project:

Chances are they already have an existing assignment to that project under a different general contractor. In this situation, you'll need to create a new account for them under subcontractor setup, being sure to use a slightly different company name and user ID:

---

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Then you'll be able to assign the new account as a sub to you:
FRINGE BENEFITS

Fringe benefits explanation from the DOL (Department of Labor) website - http://www.dol.gov/whd/foremployers.htm

FRINGE BENEFITS ARE:

Contributions irrevocably made to a trustee or third party pursuant to a bona fide fringe benefit fund plan or program. The rate of costs incurred in providing bona fide fringe benefits pursuant to an enforceable commitment to carry out a financially responsible plan or program, which was communicated to the employees in writing.

Examples:

- Life insurance
- Health insurance
- Pension
- Vacation
- Holidays
- Sick leave
- Other "bona fide" fringe benefits

However, payments required by federal, state or local law are not fringe benefit contributions. Such payments required to fund Social Security, unemployment compensation and workers’ compensation programs, as required by law, do not count as fringe benefits.

Any question concerning what type of fringe benefits is "bona fide" should be referred to the Wage and Hour Division.

Here are two examples of how some Wage Rate Sheet/Wage Decision or State pages may look, please note that these are only examples, your state may look different.

Either of these examples the required Basic Hourly rate or Base pay is the highlighted Blue value. This would be the minimal hourly rate you would have to pay the employee for doing this trade. The other values would be considered Fringes, either to a bona fide fringe benefit plan, cash fringe, or combination of both.

<table>
<thead>
<tr>
<th>Example A</th>
<th>Rates</th>
<th>Fringes</th>
<th>Example B</th>
<th>Fringes added up together = 13.10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plumber</td>
<td>$30.27</td>
<td>$13.10</td>
<td>Basic Hourly Rate</td>
<td>$30.27</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Health &amp; Welfare</td>
<td>$7.55</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Pension</td>
<td>$3.04</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Vacation/Holiday</td>
<td>$1.05</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Training</td>
<td>$0.64</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Other</td>
<td>$0.82</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Total Hourly Rate</td>
<td>$43.37</td>
</tr>
</tbody>
</table>
Entering hourly fringe rates either in the Add/Edit Employee section - Default Hourly Paid Fringes (As paid to Fund on behalf of employee) or using the Fringe Benefit Maintenance table.

### SET UP > ADD/EDIT EMPLOYEE

**Example A:**

<table>
<thead>
<tr>
<th>Vac / Hol / Dues</th>
<th>Health &amp; Welfare</th>
<th>Pension</th>
<th>All Other</th>
<th>Training</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>13.10</strong></td>
<td></td>
</tr>
</tbody>
</table>

**Example B:**

<table>
<thead>
<tr>
<th>Vac / Hol / Dues</th>
<th>Health &amp; Welfare</th>
<th>Pension</th>
<th>All Other</th>
<th>Training</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1.05</strong></td>
<td><strong>7.55</strong></td>
<td><strong>3.04</strong></td>
<td><strong>0.82</strong></td>
<td><strong>0.64</strong></td>
</tr>
</tbody>
</table>

### SET UP > FRINGE BENEFITS MAINTENANCE

**Example A:**

<table>
<thead>
<tr>
<th>Vac / Hol / Dues</th>
<th>Health &amp; Welfare</th>
<th>Pension</th>
<th>All Other</th>
<th>Training</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>0</strong></td>
<td><strong>0</strong></td>
<td><strong>0</strong></td>
<td><strong>13.10</strong></td>
<td><strong>0</strong></td>
</tr>
</tbody>
</table>

**Example B:**

<table>
<thead>
<tr>
<th>Vac / Hol / Dues</th>
<th>Health &amp; Welfare</th>
<th>Pension</th>
<th>Training</th>
<th>All Other</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1.05</strong></td>
<td><strong>7.55</strong></td>
<td><strong>3.04</strong></td>
<td><strong>0.64</strong></td>
<td><strong>0.82</strong></td>
</tr>
</tbody>
</table>
**Example A** - Shows as a company that has a bona fide fringe benefit package. The employee receives $30.27 per hour for base pay. The remainder of dollar values the company pays/sends to a bona fide fringe benefit plan. All values count towards the Total Hourly Rate or Total Package requirement.

<table>
<thead>
<tr>
<th>Gross Employee Pay This Project (Usually No Fringes)</th>
<th>Wages Paid in Lieu of Fringes (Total Cash Fringes)</th>
<th>Gross Pay All Projects (Sum of all checks entered on deductions)</th>
<th>These fields are Hourly rate fields (Usually No Fringes)</th>
<th>Rate in Lieu of Fringes (Cash Fringes)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1150.260</td>
<td>0.00</td>
<td>1728.640</td>
<td>30.27 base rate + 1.05 hourly vacation/dues fringe + 7.05 hourly health &amp; welfare fringe + 3.04 hourly pension fringe + 0.82 hourly all other fringe + 0.84 hourly training fringe + 43.37 total hourly rate</td>
<td>0.00</td>
</tr>
</tbody>
</table>

**Example B** – Shows the same value is going to a bona fide plan, it’s just not broken down. It is suggested that you do break down if at all possible, most agencies wish to see the per bona fide fringe breakdown.

<table>
<thead>
<tr>
<th>Gross Employee Pay This Project (Usually No Fringes)</th>
<th>Wages Paid in Lieu of Fringes (Total Cash Fringes)</th>
<th>Gross Pay All Projects (Sum of all checks entered on deductions)</th>
<th>These fields are Hourly rate fields (Usually No Fringes)</th>
<th>Rate in Lieu of Fringes (Cash Fringes)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1150.260</td>
<td>0.00</td>
<td>1728.640</td>
<td>30.27 base rate + 13.10 hourly all other fringe = 43.37 total hourly rate</td>
<td>0.00</td>
</tr>
</tbody>
</table>
Example C – Shows a combination of both a bona fide fringe benefit plan as well as paying a cash fringe in order to meet the Total Hourly Rate / Total Package requirement.

Example D - Does not have a bona fide fringe benefit plan and so the entire fringe is going to the employee in cash fringe / rate in lieu of fringe.
VACATION/HOLIDAY/DUES OPTIONS

The following is a more detailed explanation of the entering of Vacation and Holiday pay.

**Case 1** Vacation and Holiday is paid to the employee as additional wages. Enter the paycheck gross amount as part of the Gross Employee Pay This Project. Enter $0.00 in the fringe benefit area and check the Vac/Hol/Dues in Gross Emp. Pay box.

This would be what you consider the employees Hourly Rate of Pay. You are paying it as part of the wages and would be factored as part of overtime/double-time factoring if hours worked. The hourly rates x the hours posted would equal the Gross Pay This Project field.

**Case 2** Vacation and Holiday is included in the paycheck to calculate taxes but is paid to another fund (union) and thus deducted from the paycheck. Enter the paycheck gross amount as part of the Gross Employee Pay This Project. Enter the value in the fringe benefit area and check the box that says Vac/Hol/Dues Included in Gross Emp. Pay. In this scenario you would also show the deduction in the Deductions, Payments and Notes (taxes) section under the Vac/Dues field.
Case 4 Vacation and Holiday is not included in the paycheck. The Vacation and Holiday is only paid to a fund and taxes are assessed when paid. Enter the amount of the Vac/Hol in the field. Check the Vac/Hol/Dues Included in Gross Emp. Pay box. It would only be part of the Gross Pay This Project if the employee takes and is being paid for. So you are showing the Fringe value, however it is not sent to any fund (union) or assessed taxes until it is taken.

![Fringe contributions](image1)

Case 4 Vacation and Holiday is accrued and taxes are assessed when paid. Enter the amount of the Vac/Hol/ Dues in the field. This approach may not be accepted by some agencies.

![Fringe contributions](image2)
LCPtracker has designed a tool that will help ensure the accuracy of employee address data. Accurate employee data is vital to promote workforce development through establishing local hiring employment opportunities.

These changes will not have much of an impact on the work required to submit payroll information through LCPtracker. They will however have a significant positive impact on the quality of reporting generated.

You will now see a “Validate Address” button within the Add/Edit Employee section of your account. Depending on the agency you’re reporting to, you may be required to validate the addresses entered on file.

From the Add/Edit Employee Screen you will see the Validate Address Button:

When selected, the address entered will be compared to the US Postal Service database and a possible match may be suggested:

Valid Address Found

117 E Chapman Ave
Orange CA 92866-1401

Would you like to use this address?

Yes  No
If you select Yes, then the data will now appear in the address fields in the employee screen and Address Validated will show in green:

Be sure to click Save:

Delete  Cancel  Reset  Save

If the agency you are reporting to requires employee addresses to be validated, you may receive this message when attempting to Save an employee’s profile:

Address Validation Required

The address for this employee has not be validated. Please validate the address before saving. If you are having any issues, please contact support for assistance. You can choose to save this record, but will not be able to certify your payroll until address has been validated.

Yes  No

If you select “No” the employee profile will not be saved.

If the you select “Yes” the employee record will be saved, however a Payroll Notice will trigger that will prevent certification. Your Project Administrator will need to determine if the employee should be exempt from Address Validation.

<table>
<thead>
<tr>
<th>Type</th>
<th>Jurisdiction</th>
<th>Notice(s) / Warning(s) for this record</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOTICE</td>
<td>California</td>
<td>The employee’s address has not been verified. Go to Employee Setup, and verify the address of this employee. VAL_59</td>
</tr>
</tbody>
</table>

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ADDRESS VALIDATION EXEMPTION

A situation could arise where an employee’s address is valid but it is not found within the USPS database. This could be due to several factors including employees who live in rural areas, or whose homes are newly built and have not been established with the USPS database.

If you have determined that the address entered is valid, but the system does not validate and provide a possible match, you will need to contact your Project Administrator to request an exemption. Their contact information is available within the Projects tab > click Show Info next to the project name.

It is also suggested that you contact the USPS Address Management System. They will be able to determine if the address needs to be added to their database.

CONTACTING USPS

Go to https://ribbs.usps.gov/locators/find-ams.cfm to locate the Address Management System Office that serves the zip code for the address provided.

Here is an example:

![Address Management System Office Locator](image)

These are the results returned (SAMPLE ONLY):

The Address Management System office that serves 92648 can be contacted at:

ADDRESS MANAGEMENT SYSTEMS
UNITED STATES POSTAL SERVICE
3101 W SUNFLOWER AVE
SANTA ANA CA 92799-9316

Phone: (714) 662-6330
Fax: (714) 327-6505

Contact the Phone Number provided and they will check to see if the address is valid. If they determine that it is a valid address they will need to update their database which can take 2-5 weeks depending on where they are in the release cycle.
APPENDIX A

SITE INVESTIGATION REPORT
Project No. S1713-05-01  
June 4, 2019  

Carlton D. Allen, PE, Project Manager  
Bennett Engineering Services  
1082 Sunrise Avenue, Suite 100  
Roseville, California 95661  

Subject: SITE INVESTIGATION REPORT  
MEADOWVIEW ROAD/24TH STREET STREETSCAPE IMPROVEMENTS  
SACRAMENTO, CALIFORNIA  

Mr. Allen:  

In accordance with your request, we have performed environmental engineering services for the Meadowview Streetscape Project located along Meadowview Road from just west of 24th Street to Detroit Boulevard in Sacramento, California. The accompanying report summarizes the services performed including the advancement of 16 direct-push and two hand-auger borings for shallow soil sampling for aerially deposited lead and petroleum hydrocarbons analyses.  

The contents of this report reflect the views of the author, who is responsible for the facts and accuracy of the data presented herein. The contents do not necessarily reflect the official views or policies of the State of California or the Federal Highway Administration. This report does not constitute a standard, specification, or regulation.  

Please contact us if you have any questions concerning the contents of this report or if we may be of further service.  

Sincerely,  

GEOCON CONSULTANTS, INC.  

Gemma G. Reblando  
Project Geologist  

John E. Juhrend, PE, CEG  
Senior Engineer
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<td>6.1</td>
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<td>6.2</td>
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<td>6.3</td>
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<td>7.0</td>
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<td>11</td>
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B. Lead Statistics and Regression Analysis Results
SITE INVESTIGATION REPORT

1.0 INTRODUCTION

This Site Investigation Report for the Meadowview Road/24th Street Streetscape Improvement Project was prepared by Geocon Consultants, Inc. for Bennett Engineering Services (the Client) on behalf of the City of Sacramento (City).

1.1 Project Description and Proposed Improvements

The project area consists of City right-of-way (ROW) along the unpaved shoulder areas of Meadowview Road from just west of 24th Street to Detroit Boulevard (the Site) in Sacramento, California. The approximate project location is depicted on the attached Vicinity Map, Figure 1, and Site Plans, Figures 2-1 through 2-3. The proposed improvements will include roadway widening to add new bike lanes (one bike lane for both eastbound and westbound directions), as well as proposed bus stops and bus pullouts.

1.2 General Objectives

Construction of planned roadway improvements at the Site will require the disturbance of soil at the Site and may generate excess soil. The purpose of the scope of services outlined herein was to evaluate soil at the Site for potential impacts due to aerially deposited lead (ADL) and petroleum hydrocarbons from a former gasoline station at the southeast corner of Meadowview Road and 24th Street (near borings E-6 and E-8). The investigative results will be used by the City to inform the construction contractor if lead- and/or petroleum hydrocarbon-impacted soil is present within the project boundaries for construction worker health and safety, and soil management and disposal purposes.

2.0 BACKGROUND

The City requested this site investigation to provide data regarding the potential presence of metals (including lead) and petroleum hydrocarbons in soil within the proposed improvement areas.

2.1 Former Leaking Underground Storage Tank (LUST) Site

Based on information obtained from the State Water Resources Control Board’s GeoTracker website, there is a closed LUST cleanup site at the southeast corner of Meadowview Road and 24th Street (former Desert Petroleum - Regional Board Case # 340552, currently a vacant lot) (Figure 2-1). The City is concerned about potential residual petroleum hydrocarbon impacts from the former LUST property.

2.2 Hazardous Waste Determination Criteria

Regulatory criteria to classify a waste as “California hazardous” for handling and disposal purposes are contained in the California Code of Regulations (CCR), Title 22, Division 4.5, Chapter 11, Article 3, § 66261.24. Criteria to classify a waste as “Resource, Conservation, and Recovery Act (RCRA) hazardous” are contained in Chapter 40 of the Code of Federal Regulations (40 CFR), § 261.
For waste containing metals, the waste is classified as California hazardous when: 1) the representative total metal content equals or exceeds the respective Total Threshold Limit Concentration (TTLC); or 2) the representative soluble metal content equals or exceeds the respective Soluble Threshold Limit Concentration (STLC) based on the standard Waste Extraction Test (WET). A waste may have the potential of exceeding the STLC when the waste's total metal content is greater than or equal to ten times the respective STLC value, since the WET uses a 1:10 dilution ratio. Hence, when a total metal is detected at a concentration greater than or equal to ten times the respective STLC, and assuming that 100 percent of the total metals are soluble, soluble metal analysis is required. A material is classified as RCRA hazardous, or Federal hazardous, when the representative soluble metal content equals or exceeds the Federal regulatory level based on the Toxicity Characteristic Leaching Procedure (TCLP). The TTLC and STLC for lead are on Table 2.

The above regulatory criteria are based on chemical concentrations. Wastes may also be classified as hazardous based on other criteria such as ignitability and corrosivity; however, for the purposes of this investigation, toxicity (i.e., representative lead concentrations) is the primary factor considered for waste classification since waste generated during the construction activities would not likely warrant testing for ignitability or corrosivity. Waste that is classified as either California-hazardous or RCRA-hazardous requires management as a hazardous waste.

2.3 California Human Health Screening Levels

The California Environmental Protection Agency (Cal/EPA) has prepared technical reports entitled *Use of California Human Health Screening Levels (CHHSLs) in Evaluation of Contaminated Properties* (Cal/EPA, January 2005) and *Revised California Human Health Screening Levels for Beryllium* (Cal/EPA, March 2009) and *Lead* (Cal/EPA, September 2009), which present CHHSLs for soil, shallow soil gas, and indoor air to assist in evaluating sites impacted by releases of hazardous chemicals.

The CHHSLs are concentrations of 54 hazardous chemicals including Title 22 metals that Cal/EPA considers to be below thresholds of concern for risks to human health. The CHHSLs were developed by the Office of Environmental Health Hazard Assessment (OEHHA) on behalf of Cal/EPA. The thresholds of concern used to develop the CHHSLs are an excess lifetime cancer risk of one in a million and a hazard quotient or 1.0 for noncancer effects. Under most circumstances, the presence of a chemical at a concentration less than its respective CHHSL can be assumed to not pose a significant risk. The presence of a chemical at a concentration greater than a CHHSL does not indicate that adverse impacts to human health are occurring or will occur but suggests that further evaluation is warranted (Cal/EPA, January 2005). The CHHSLs for residential and industrial/commercial land use are on Table 2.
2.4 Environmental Screening Levels

The San Francisco Bay Regional Water Quality Control Board (SFRWQCB) has prepared a technical report entitled *User’s Guide: Derivation and Application of Environmental Screening Levels, Interim Final 2019* (updated January 2019, Rev. 1), which presents Environmental Screening Levels (ESLs) for over 100 commonly found contaminants in soil, groundwater, soil gas, and surface water, to assist in evaluating sites impacted by releases of hazardous chemicals. "If used correctly, ESLs are considered to be protective for typical bay area sites. Under most circumstances, the presence of a chemical in soil, soil gas, or groundwater at concentrations below the corresponding ESL can be assumed to not pose a significant threat to human health, water resources, or the environment" (SFRWQCB, January 2019, Rev. 1).

ESLs are commonly used by contractors, soil trucking companies, and private and commercial land owners as default acceptance criteria to evaluate suitability of import soil material. ESL Table S-1, Summary of Soil ESLs, Direct Exposure to Human Health, was used for this characterization. The respective ESLs are listed at the end of Tables 2 and 3.

2.5 Hazardous Waste Determination Criteria – Petroleum Hydrocarbons

Currently, regulatory criteria for the classification of wastes based solely on the concentrations of gasoline-range organics (GRO), diesel-range organics (DRO), and oil-range organics (ORO), have not yet been promulgated. Disposal of petroleum hydrocarbon-impacted soil is generally regulated by disposal facility permit and acceptance criteria.

3.0 SCOPE OF SERVICES

We performed the following scope of services as requested by the Client including the collection of soil samples for laboratory analysis to determine lead and petroleum hydrocarbons content and the preparation of this report.

3.1 Pre-field Activities

- Marked the project limits in white paint for subsequent utility clearance on April 3, 2019.
- Provided at least a 72-hour notification to Underground Service Alert (USA) prior to job site mobilization.
- Retained the services of Advanced Technology Laboratories (ATL), a Caltrans-approved and California-certified analytical laboratory, to perform the chemical analyses of soil samples.

3.2 Field Activities

On April 22, 2019, we advanced 18 borings (E-1 through E-18) to an approximate sampling depth of 1.5 feet with soil samples collected from depth intervals of 0 to 0.5 foot and 1 to 1.5 feet. Borings E-6 and E-8 located in the southeast quadrant of Meadowview Road and 24th Street were advanced to 3.5 feet with soil samples collected from depth intervals of 0 to 0.5 foot, 1 to 1.5 feet, 2 to 2.5 feet, and 3 to
3.5 feet for petroleum hydrocarbon analyses. The approximate boring locations are depicted on Figures 2-1 through 2-3. A typical sampling location at the Site is depicted on Photo No. 1.

Following sample collection, the borings were backfilled with the excess soil cuttings. Details of the field activities are presented in the following sections.

4.0 INVESTIGATIVE METHODS

4.1 Soil Sampling Procedures

Soil samples were collected in cellulose thermoplastic (acetate) liners driven by the direct-push rig. The acetate liners were cut to separate the sample by depth, then the sample from a particular interval was opened, and the soil sample was transferred to a Ziploc® re-salable plastic bag and field homogenized within the sample bag for lead analysis. Soil samples collected using a hand-auger were transferred to Ziploc® re-salable plastic bags and field homogenized within the sample bags for lead analysis. Soil samples to be analyzed for petroleum hydrocarbons were retained in plastic tubes and sealed with Teflon sheets and plastic end caps. The sample bags and tubes were subsequently labeled, placed in a chilled ice chest, and delivered to ATL for analytical testing under chain-of-custody (COC) documentation. General soil types were noted on the daily field log.

The coordinates of the boring locations were determined using a differential global positioning system (GPS). The GPS was utilized during the field activities to locate the horizontal position of the boring locations with an error of no more than 3.3 feet. The latitude and longitude of the boring locations are summarized on Table 1.

4.2 Quality Assurance/Quality Control (QA/QC) Procedures

QA/QC procedures were performed during the field exploration activities. These procedures included the decontamination of sampling equipment before each sample was collected and providing COC documentation for each sample submitted to the laboratory. The soil sampling equipment was cleansed between borings by washing the equipment with an Alconox® solution followed by a double rinse with purified water. The decontamination water was discharged to the ground surface within the City ROW, away from the roadway and storm drain inlets.

4.3 Laboratory Analyses

The soil samples were analyzed under standard turnaround time (TAT) for the following analyses. The laboratory was instructed to homogenize the soil samples prior to lead analysis.
Forty soil samples were analyzed for total lead following Environmental Protection Agency (EPA) Test Method 6010B.

Eleven soil samples with total lead concentrations greater than 50 milligrams per kilogram (mg/kg) (i.e., ten times the lead STLC of 5.0 milligrams per liter [mg/l]) were further analyzed for WET soluble lead using EPA Test Method 6010B.

Four soil samples were analyzed for TCLP lead following EPA Test Method 6010B.

Eight soil samples were analyzed for GRO, DRO and ORO by EPA Test Method 8015B.

Eight soil samples were analyzed for benzene, toluene, ethylbenzene and xylenes (BTEX) and methyl tert-butyl ether (MTBE) by EPA Test Method 8260B.

QA/QC procedures were performed by ATL as applicable for the method of analysis with specificity for each analyte listed in the test method's QA/QC. QA/QC measures for the lead and petroleum hydrocarbons analyses included the following:

- One method blank for every ten samples, batch of samples or type of matrix, whichever was more frequent.
- One sample analyzed in duplicate for every ten samples, batch of samples or type of matrix, whichever was more frequent.
- One spiked sample for every ten samples, batch of samples or type of matrix, whichever was more frequent, with the spike made at ten times the detection limit or at the analyte level.

Prior to submitting the samples to the laboratory, the COC documentation was reviewed for accuracy and completeness.

4.4 Traffic Control

Geocon provided shoulder closure traffic control using traffic signs and orange cones during the field sampling activities.

5.0 FIELD OBSERVATIONS AND INVESTIGATIVE RESULTS

5.1 Soil Description

Soil encountered in the borings during the field sampling activities generally consisted of silty sand and sandy silt to the maximum sampling depth of 3.5 feet. Soil samples collected from borings E-6 and E-8 were field screened for the presence of volatile organic vapors using a photo-ionization detector (PID). PID readings for the soil samples ranged from 0.0 to 21.2 parts per million. We did not observe obvious indicators (i.e., staining, odor, or elevated PID readings) of petroleum hydrocarbon contamination in the soil samples from borings E-6 and E-8. Groundwater was not encountered in the borings.
5.2 Soil Analytical Results

A summary of the soil analysis results is on Tables 2 and 3. The soil analysis results are discussed in the following sections. Copies of the ATL laboratory reports and COC documentation are in Appendix A.

5.2.1 ADL

Total lead was detected in the 40 soil samples analyzed at concentrations ranging from 2.7 to 470 mg/kg. Eleven of the 40 soil samples were further analyzed for WET soluble lead.

WET soluble lead was detected in the eleven soil samples analyzed at concentrations ranging from 1.0 to 24 mg/l. Three of the soil samples had WET lead concentrations greater than the lead STLC of 5.0 mg/l. TCLP soluble lead was not detected in the four soil samples analyzed.

A summary of the ADL analysis results is on Table 2.

5.2.2 Petroleum Hydrocarbons

DRO was detected in the eight soil samples analyzed at concentrations ranging from 2.2 to 25 mg/kg, less than the ESLs for residential and commercial/industrial land use, and the construction worker exposure ESL, and the Tier 1 ESL. ORO was detected in the eight soil samples analyzed at concentrations ranging from 3.4 to 82 mg/kg, less than the ESLs for residential and commercial/industrial land use, and the construction worker exposure ESL, and the Tier 1 ESL.

GRO, BTEX and MTBE were not detected at concentrations exceeding their respective laboratory reporting limits in soil samples analyzed.

5.3 Laboratory QA/QC

We reviewed the QA/QC provided with the ATL laboratory reports. Based on the laboratory QA/QC data, no qualification of the data presented herein is necessary, and the data are of sufficient quality for the purposes of this report.

5.4 Statistical Evaluation for Lead Detected in Soil Samples

Statistical methods were applied to the total lead data to evaluate: 1) the upper confidence limits (UCLs) of the arithmetic means of the total lead concentrations for each sampling depth; and 2) if an acceptable correlation between total and WET lead concentrations exists that would allow the prediction of WET lead concentrations based on the calculated UCLs. The lead data were treated as one data population for statistical evaluation with the assumption that soil excavated in the vicinity of borings E-1 through E-18 would be consolidated.
5.4.1 Calculating the UCLs for the Arithmetic Mean

The upper one-sided 95% UCL of the arithmetic mean is defined as the value that, when calculated repeatedly for randomly drawn subsets of site data, equals or exceeds the true mean 95% of the time. Statistical confidence limits are the classical tool for addressing uncertainties of a distribution mean. The UCLs of the arithmetic mean concentration are used as mean concentrations because it is not possible to know the true mean due to the essentially infinite number of soil samples that could be collected from a site. The UCLs therefore account for uncertainties due to limited sampling data. As data become less limited at a site, uncertainties decrease, and the UCLs move closer to the true mean.

EPA's ProUCL-suggested UCLs were used for statistical analysis (Appendix B). The statistical results are summarized in the table below:

<table>
<thead>
<tr>
<th>SAMPLE INTERVAL (feet)</th>
<th>95% TOTAL LEAD ProUCL-Suggested UCL (mg/kg)</th>
<th>TOTAL LEAD MEAN (mg/kg)</th>
<th>MINIMUM VALUE (mg/kg)</th>
<th>MAXIMUM VALUE (mg/kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 to 0.5</td>
<td>146.9</td>
<td>86.0</td>
<td>6.9</td>
<td>470</td>
</tr>
<tr>
<td>1 to 1.5</td>
<td>36.7</td>
<td>13.1</td>
<td>3.2</td>
<td>92</td>
</tr>
</tbody>
</table>

5.4.2 Correlation of Total and Soluble Lead

Total and corresponding WET soluble lead concentrations are bivariate data with a linear structure. This linear structure should allow for the prediction of WET soluble lead concentrations based on the UCLs calculated above in Section 5.4.1.

To estimate the degree of interrelation between total and corresponding WET soluble lead values (x and y, respectively), the correlation coefficient \( r \) is used. The correlation coefficient is a ratio that ranges from +1 to -1. A correlation coefficient of +1 indicates a perfect direct relationship between two variables; a correlation coefficient of -1 indicates that one variable changes inversely with relation to the other. Between the two extremes is a spectrum of less-than-perfect relationships, including zero, which indicates the lack of any sort of linear relationship at all.

The correlation coefficient calculated for the eleven \((x, y)\) data points (i.e., soil samples analyzed for both total lead \(x\) and WET soluble lead \(y\)) was 0.9818. A correlation coefficient greater than or equal to 0.8 is an acceptable indicator that a correlation exists. Consequently, an acceptable correlation between total and soluble lead concentrations was established for the data points since the correlation coefficient is greater than 0.8.
For the *correlation coefficient* that indicates a linear relationship between total and WET soluble lead concentrations, it is possible to compute the line of dependence or a best-fit line between the two variables. A least squares method was used to find the equation of a best-fit line (regression line). The equation of the regression line was determined to be $y = 0.053(x) - 1.5048$, where $x$ represents total lead concentrations and $y$ represents predicted WET soluble lead concentrations. This equation was used to estimate the expected WET soluble lead concentrations for the UCLs calculated in Section 5.4.1. Regression analysis results and a scatter plot depicting the $(x, y)$ data points along with the regression line are in Appendix B. The 95% UCL-predicted WET soluble lead concentrations are presented in Section 6.0.
6.0 CONCLUSIONS AND RECOMMENDATIONS

6.1 ADL

Total lead concentrations ranged from 2.7 to 470 mg/kg. The table below summarizes the excavation scenarios, the weighted average based on the calculated total lead UCLs, and the waste classification for soil excavated in the vicinity of borings E-1 through E-18.

<table>
<thead>
<tr>
<th>Excavation Depth</th>
<th>95% UCL Total Lead (mg/kg)</th>
<th>95% UCL Predicted WET Lead (mg/l)</th>
<th>Offsite Disposal Waste Classification</th>
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</thead>
<tbody>
<tr>
<td>0 to 0.5 foot</td>
<td>146.9</td>
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<td>Hazardous</td>
</tr>
<tr>
<td>Underlying Soil (0.5 to 1.5 feet)</td>
<td>91.8</td>
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<td>Non-hazardous</td>
</tr>
<tr>
<td>0 to 1 foot</td>
<td>146.9</td>
<td>6.3</td>
<td>Hazardous</td>
</tr>
<tr>
<td>Underlying Soil (1 to 1.5 feet)</td>
<td>36.7</td>
<td>0.4</td>
<td>Non-hazardous</td>
</tr>
<tr>
<td>0 to 1.5 feet</td>
<td>110.2</td>
<td>4.3</td>
<td>Non-hazardous</td>
</tr>
</tbody>
</table>

Predicted WET lead concentrations were calculated using the equation of the regression line: $y = 0.0530x - 1.5048$.

Soil excavated from the surface to a depth of 1 foot or shallower would be classified as California-hazardous soil based on lead content because the calculated UCL-predicted WET lead concentrations are greater than the lead STLC of 5.0 mg/l.

Soil excavated from the surface to a depth of 1.5 feet, if managed as a whole, would not be classified as California-hazardous soil based on lead content because the calculated UCL-predicted WET lead concentration is less than the lead STLC of 5.0 mg/l. Soil excavated from the top 1.5 feet can be reused or disposed of as non-hazardous soil.

Based on the TCLP soluble lead results of less than 5.0 mg/l, soil generated at the Site would not be classified as a Federal RCRA hazardous waste.

The total lead UCLs for soil excavated from the surface to a depth of 1.5 feet or shallower are greater than the residential land use CHHSL and ESL, but less than the commercial land use CHHSL and ESL (Table 2).

6.2 Petroleum Hydrocarbons

DRO and ORO were detected in the soil samples analyzed at concentrations up to 25 and 82 mg/kg, respectively, less than the residential and commercial land use CHHSLs and ESLs, the construction worker exposure ESL, and the Tier 1 ESL (Table 3).
GRO, BTEX and MTBE were not detected at concentrations exceeding their respective laboratory reporting limits in the soil samples collected from borings E-6 and E-8 located near the former gasoline station in the southeast quadrant of Meadowview Road and 24th Street.

We did not observe obvious indicators (i.e., staining, odor, or elevated PID readings) of petroleum hydrocarbon contamination in the soil samples from borings E-6 and E-8. Based on laboratory analysis results, no special handling of excavated soil material in the vicinity of borings E-6 and E-8 with respect to petroleum hydrocarbons is anticipated during construction. If obvious petroleum hydrocarbon-impacted soil conditions are encountered during construction excavations, these materials should be isolated, stockpiled and characterized to determine appropriate soil disposal options.

6.3 Worker Protection

The contractor(s) should prepare a project-specific Lead Compliance Plan (CCR Title 8, § 1532.1, the “Lead in Construction” standard) to minimize worker exposure to lead-containing soil. The plan should include protocols for environmental and personnel monitoring, requirements for personal protective equipment, and other health and safety protocols and procedures for the handling of lead-containing soil.
7.0 REPORT LIMITATIONS

This report has been prepared exclusively for Bennett Engineering Services. The information contained herein is only valid as of the date of the report and will require an update to reflect additional information obtained.

This report is not a comprehensive site characterization and should not be construed as such. The findings as presented in this report are predicated on the results of the limited sampling and laboratory testing performed. In addition, the information obtained is not intended to address potential impacts related to sources other than those specified herein. Therefore, the report should be deemed conclusive with respect to only the information obtained. We make no warranty, express or implied, with respect to the content of this report or any subsequent reports, correspondence or consultation. We strived to perform the services summarized herein in accordance with the local standard of care in the geographic region at the time the services were rendered.
Photo No. 1  Typical sampling location in unpaved areas adjacent to the sidewalk along Meadowview Road
<table>
<thead>
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<td>WET LEAD (mg/l)</td>
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**Hazardous Waste Criteria**

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<tr>
<td>10 x STLC</td>
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**CHHSls/ESLs**

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<td>Commercial/Industrial Land Use</td>
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**Background Concentrations (1)**

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<td>Mean</td>
<td>25.9</td>
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<tr>
<td>Maximum</td>
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Notes:
- Top of 0.5-foot sample depth interval in feet below ground surface
- Boring Identification
- WET = Waste Extraction Test
- TCLP = Toxicity Characteristic Leaching Procedure
- TTLC = Total Threshold Limit Concentration
- STLC = Soluble Threshold Limit Concentration
- mg/kg = Milligrams per kilogram
- mg/l = Milligrams per liter
- < = Less than the laboratory reporting limit
- --- = Not analyzed

CHHSls = California Environmental Protection Agency, California Human Health Screening Levels
ESLs = Environmental Screening Levels, Table S-1, Direct Exposure Human Health Risk Levels, San Francisco Bay Regional Water Quality Control Board, January 2019 (Rev. 1)

(1) = Background Concentrations of Trace and Major Elements in California Soils (Kearney Foundation of Soil Science, Division of Agricultural and Natural Resources, University of California, March 1996)
### Table 3
**SUMMARY OF SOIL ANALYSIS RESULTS - PETROLEUM HYDROCARBONS**
**MEADOWVIEW ROAD/24TH STREET STREETSCAPE IMPROVEMENTS**
**SACRAMENTO, CALIFORNIA**

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<tr>
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<th>GRO (mg/kg)</th>
<th>DRO (mg/kg)</th>
<th>ORO (mg/kg)</th>
<th>B (µg/kg)</th>
<th>T (µg/kg)</th>
<th>E (µg/kg)</th>
<th>X (µg/kg)</th>
<th>MTBE (µg/kg)</th>
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<td>&lt;5.0</td>
<td>&lt;5.0</td>
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</table>

### ESLs

| Table S-1, Residential | 430 | 260 | 12,000 | 330 | 1,100,000 | 5,900 | 580,000 | 47,000 |
| Table S-1, Commercial/Industrial | 2,000 | 1,200 | 180,000 | 1,400 | 5,300,000 | 26,000 | 2,500,000 | 210,000 |
| Table S-1, Construction Worker Exposure | 1,800 | 1,100 | 54,000 | 33,000 | 4,700,000 | 540,000 | 2,400,000 | 4,100,000 |
| Tier 1 | 100 | 260 | 1,600 | 25 | 3,200 | 430 | 2,100 | 28 |

Notes:
- Top of 0.5-foot sample depth interval in feet below ground surface
- Borings identification
- GRO = Gasoline-range organics
- DRO = Diesel-range organics
- ORO = Oil-range organics
- BTEX = Benzene, toluene, ethylbenzene, and total xylene
- MTBE = Methyl tert-butyl ether
- mg/kg = Milligrams per kilogram
- µg/kg = Micrograms per kilogram
- < = Less than the laboratory reporting limit
- ESLs = Environmental Screening Levels, Summary of Soil ESLs, Table S-1 Direct Exposure Human Health Risk Levels and Soil Tier 1 ESL, San Francisco Bay Regional Water Quality Control Board, January 2019 (Rev. 1)
May 01, 2019

Rebecca Silva
Geocon Consultants, Inc.
3160 Gold Valley Drive, Suite 800
Rancho Cordova, CA 95742
Tel: (916) 852-9118
Fax:(916) 852-9132

Re: ATL Work Order Number : 1901662

Client Reference : Meadowview Road, S1713-05-01

Enclosed are the results for sample(s) received on April 24, 2019 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

\[signature\]

Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

517/5 Walnut Avenue, Signal Hill, CA 90755 • Tel: 562-989-4043 • Fax: 562-989-4040
www.athglobal.com
## SUMMARY OF SAMPLES

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### Certificate of Analysis

**Geocon Consultants, Inc.**  
3160 Gold Valley Drive, Suite 800  
Rancho Cordova, CA 95742

**Project Number:** Meadowview Road, S1713-05-01  
**Report To:** Rebecca Silva  
**Reported:** 05/01/2019

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# Certificate of Analysis

Geocon Consultants, Inc.
3160 Gold Valley Drive, Suite 800
Rancho Cordova, CA 95742

Project Number: Meadowview Road, S1713-05-01

Report To: Rebecca Silva
Reported: 05/01/2019

## Total Metals by ICP-AES EPA 6010B

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### Total Metals by ICP-AES EPA 6010B

**Analyte: Lead**

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## Gasoline Range Organics by EPA 8015B (Modified)

**Analyte** | **Result (mg/kg)** | **PQL (mg/kg)** | **Dilution** | **Batch** | **Prepared** | **Date/Time Analyzed** | **Notes**
---|---|---|---|---|---|---|---
Gasoline Range Organics | ND | 1.0 | 1 | B9D1249 | 04/30/2019 | 04/20/19 09:56 | 
Surrogate: 1-Bromofluorobenzene | 109 % | 45 - 149 | | B9D1249 | 04/30/2019 | 04/20/19 09:56 | 

## Diesel Range Organics by EPA 8015B

**Analyte** | **Result (mg/kg)** | **PQL (mg/kg)** | **Dilution** | **Batch** | **Prepared** | **Date/Time Analyzed** | **Notes**
---|---|---|---|---|---|---|---
DRO | 9.2 | 1.0 | 1 | B9D125 | 04/29/2019 | 04/20/19 13:38 | 
ORO | 18 | 1.0 | 1 | B9D125 | 04/29/2019 | 04/20/19 13:38 | 
Surrogate: p-Terphenyl | 68.9 % | 34 - 158 | | B9D125 | 04/29/2019 | 04/20/19 13:38 | 

## Volatile Organic Compounds by EPA 8260B

**Analyte** | **Result (ug/kg)** | **PQL (ug/kg)** | **Dilution** | **Batch** | **Prepared** | **Date/Time Analyzed** | **Notes**
---|---|---|---|---|---|---|---
Benzene | ND | 5.0 | 1 | B9D1108 | 04/25/2019 | 04/25/19 14:12 | 
Ethylbenzene | ND | 5.0 | 1 | B9D1108 | 04/25/2019 | 04/25/19 14:12 | 
m,p-Xylene | ND | 10 | 1 | B9D1108 | 04/25/2019 | 04/25/19 14:12 | 
MTBE | ND | 5.0 | 1 | B9D1108 | 04/25/2019 | 04/25/19 14:12 | 
o-Xylene | ND | 5.0 | 1 | B9D1108 | 04/25/2019 | 04/25/19 14:12 | 
Toluene | ND | 5.0 | 1 | B9D1108 | 04/25/2019 | 04/25/19 14:12 | 
Surrogate: 1,2-Dichloroethane-d4 | 106 % | 60 - 145 | | B9D1108 | 04/25/2019 | 04/25/19 14:12 | 
Surrogate: 1-Bromofluorobenzene | 96.4 % | 68 - 121 | | B9D1108 | 04/25/2019 | 04/25/19 14:12 | 
Surrogate: Dibromofluoromethane | 107 % | 65 - 137 | | B9D1108 | 04/25/2019 | 04/25/19 14:12 | 
Surrogate: Toluene-d8 | 102 % | 82 - 119 | | B9D1108 | 04/25/2019 | 04/25/19 14:12 |
# Certificate of Analysis

Geocon Consultants, Inc.  
Project Number: Meadowview Road, S1713-05-01  
3160 Gold Valley Drive, Suite 800  
Report To: Rebecca Silva  
Rancho Cordova, CA 95742  
Reported: 05/01/2019

## Client Sample ID E-6-1  
Lab ID: 1901662-10

### Gasoline Range Organics by EPA 8015B (Modified)  
**Analyte:** Gasoline Range Organics  
**Result (mg/kg):** ND  
**PQL (mg/kg):** 1.0  
**Dilution:** 1  
**Batch:** B9D1293  
**Prepared:** 04/30/2019  
**Date/Time Analyzed:** 04/30/19 15:16  
**Surrogate:** 4-Bromofluorobenzene  
**%:** 105  
**Range:** 45 - 149

### Diesel Range Organics by EPA 8015B  
**Analyte:** DRO  
**Result (mg/kg):** 7.7  
**PQL (mg/kg):** 1.0  
**Dilution:** 1  
**Batch:** B9D1235  
**Prepared:** 04/29/2019  
**Date/Time Analyzed:** 04/29/19 12:52

**Surrogate:** p-Terphenyl  
**%:** 71.6  
**Range:** 34 - 158

### Volatile Organic Compounds by EPA 8260B  
**Analyte:** Benzene  
**Result (ug/kg):** ND  
**PQL (ug/kg):** 5.0  
**Dilution:** 1  
**Batch:** B9D1108  
**Prepared:** 04/25/2019  
**Date/Time Analyzed:** 04/25/19 14:32

**Surrogate:** 1,2-Dichloroethane-d4  
**%:** 115  
**Range:** 60 - 145

**Surrogate:** 4-Bromofluorobenzene  
**%:** 98.9  
**Range:** 68 - 121

**Surrogate:** DiBromofluoromethane  
**%:** 112  
**Range:** 65 - 137

**Surrogate:** Toluene-d8  
**%:** 103  
**Range:** 82 - 119

**Notes**
# Certificate of Analysis

Geoccon Consultants, Inc.                                      Project Number: Meadowview Road, S1713-05-01
3160 Gold Valley Drive, Suite 800                             Report To: Rebecca Silva
Rancho Cordova, CA 95742                                       Reported: 05/01/2019

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## Client Sample ID E-6-2

Lab ID: 1901662-11

## Gasoline Range Organics by EPA 8015B (Modified)

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## Diesel Range Organics by EPA 8015B

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### Certificate of Analysis

Geocon Consultants, Inc.  
3160 Gold Valley Drive, Suite 800  
Rancho Cordova, CA 95742

Project Number: Meadowview Road, S1713-05-01  
Report To: Rebecca Silva  
Reported: 05/01/2019

### Client Sample ID E-6-3  
Lab ID: 1901662-12

#### Gasoline Range Organics by EPA 8015B (Modified)

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#### Volatile Organic Compounds by EPA 8260B

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Certificate of Analysis

Geocon Consultants, Inc.
3160 Gold Valley Drive, Suite 800
Rancho Cordova, CA 95742

Project Number: Meadowview Road, S1713-05-01
Report To: Rebecca Silva
Reported: 05/01/2019

Client Sample ID E-8-0
Lab ID: 1901662-13

Gasoline Range Organics by EPA 8015B (Modified)  
Analyte: JBL

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Diesel Range Organics by EPA 8015B  
Analyte: CR

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Volatile Organic Compounds by EPA 8260B  
Analyte: VW

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# Certificate of Analysis

Geocon Consultants, Inc.  
3160 Gold Valley Drive, Suite 800  
Rancho Cordova, CA 95742

Project Number: Meadowview Road, S1713-05-01  
Report To: Rebecca Silva  
Reported: 05/01/2019

---

## Client Sample ID E-8-1  
Lab ID: 1901662-14

### Gasoline Range Organics by EPA 8015B (Modified)  
**Analyst: JBL**

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### Diesel Range Organics by EPA 8015B  
**Analyst: CR**

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### Volatile Organic Compounds by EPA 8260B  
**Analyst: VW**

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Certificate of Analysis

Geocon Consultants, Inc.  Project Number: Meadowview Road, S1713-05-01
3160 Gold Valley Drive, Suite 800  Report To: Rebecca Silva
Rancho Cordova, CA 95742  Reported: 05/01/2019

Client Sample ID E-8-2  Lab ID: 1901662-15

Gasoline Range Organics by EPA 8015B (Modified)  Analyst: JBL

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Diesel Range Organics by EPA 8015B  Analyst: CR

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Volatile Organic Compounds by EPA 8260B  Analyst: VW

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# Certificate of Analysis

Geocon Consultants, Inc.  
3160 Gold Valley Drive, Suite 800  
Rancho Cordova, CA 95742  
Project Number: Meadowview Road, S1713-05-01  
Report To: Rebecca Silva  
Reported: 05/01/2019

## Client Sample ID E-8-3  
Lab ID: 1901662-16

### Gasoline Range Organics by EPA 8015B (Modified)

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### Diesel Range Organics by EPA 8015B

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### Volatile Organic Compounds by EPA 8260B

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# Certificate of Analysis

Geocon Consultants, Inc.  
3160 Gold Valley Drive, Suite 800  
Rancho Cordova, CA 95742  

Project Number: Meadowview Road, S1713-05-01  
Report To: Rebecca Silva  
Reported: 05/01/2019

## QUALITY CONTROL SECTION

### Total Metals by ICP-AES EPA 6010B - Quality Control

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## Total Metals by ICP-AES EPA 6010D - Quality Control

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## Certificate of Analysis

**Geocon Consultants, Inc.**
3160 Gold Valley Drive, Suite 800
Rancho Cordova, CA 95742

**Project Number:** Meadowview Road, S1713-05-01

**Report To:** Rebecca Silva

**Reported:** 05/01/2019

### Gasoline Range Organics by EPA 8015D (Modified) - Quality Control

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### Gasoline Range Organics by EPA 8015D (Modified) - Quality Control

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## Certificate of Analysis

Geocon Consultants, Inc.  
3160 Gold Valley Drive, Suite 800  
Rancho Cordova, CA 95742  

Project Number: Meadowview Road, S1713-05-01  
Report To: Rebecca Silva  
Reported: 05/01/2019

### Diesel Range Organics by EPA 8015D - Quality Control

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## Certificate of Analysis

Geocon Consultants, Inc.  
3160 Gold Valley Drive, Suite 800  
Rancho Cordova, CA 95742

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### Batch B9D1108 - MSVOA_S

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Source: 1901635-01

Source: 1901635-04

Source: 1901662-09
## Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

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Certificate of Analysis

Geocon Consultants, Inc.
3160 Gold Valley Drive, Suite 800
Rancho Cordova, CA 95742

Project Number: Meadowview Road, S1713-05-01
Report To: Rebecca Silva
Reported: 05/01/2019

Notes and Definitions

S4 Surrogate was diluted out.
ND Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL).
PQL Practical Quantitation Limit
MDL Method Detection Limit
NR Not Reported
RPD Relative Percent Difference
CA2 CA-ELAP (CDPH)
OR1 OR-NELAP (OSPHL)

Notes:
(1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
(2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
(3) Results are wet unless otherwise specified.
### Chain of Custody Record

**Advanced Technology Laboratories**

3275 Walnut Avenue
Signal Hill, CA 90755

Tel: (562) 989-4045 • Fax: (562) 989-4040

**Client:** Geocon

**Address:** 3160 Gold Valley Drive, Suite 802

City: Rancho Cordova • State: CA • Zip Code: 95742

Tel: 916-852-9318 • Fax: 916-852-9321

**Attention:** Rebecca Silva

**Project Name:** Meadowview Road

**Project #:** SI713-05-01

**Sampler:** Laura Short

**Project Mgr./Submitter:** Rebecca Silva

**Date:** 4/23/19

**Sample/Records - Archival & Disposal**

- **Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.**

**Storage Fees (applies when storage is requested):**

- Sample: $2.00 / sample / mo (after 45 days)
- Records: $1 / ATL, workorder / mo (after 1 year)

### Laboratory Use Only

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<th>Time</th>
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**TAT:**

- **Gamma A = Overnight ≤ 24 hrs**
- **Gamma B = Emergency Next Working Day**
- **Gamma C = Critical 2 Workdays**
- **Gamma D = Urgent 3 Workdays**
- **Gamma E = Standard TAT**

**Preservatives:**

- HCl
- NH4NO3
- SiH4SO3
- C2H4C

**Zn(AC)2**

**NaOH**

**Na2SO4**
**CHAIN OF CUSTODY RECORD**

**FOR LABORATORY USE ONLY**

### Method of Transport
- **Chilled:** Y □ N □
- **Frozen:** Y □ N □
- **Sealed:** Y □ N □
- **Holdspace (VOA):** Y □ N □
- **Other:** Y □ N □

### Sample Condition Upon Receipt
- **Inhaling:** Y □ N □
- **Inhaling:** Y □ N □
- **Inhaling:** Y □ N □
- **Inhaling:** Y □ N □
- **Inhaling:** Y □ N □

### Client
- **Address:** 3103 Gold Valley Drive, Suite 800
- **City:** Rancho Cordova
- **State:** CA
- **Zip Code:** 95742

### Project
- **Project Name:** Meadowview Road
- **Project #:** S713-05-01
- **Sampler:** Laura Shorr

### Requipped by
- **Date:** 1/21/19
- **Received by:** Geocon Sample Coord
- **Date:** 1/21/19

### Remarks
- **Special Instructions/Comments:** Homogenize Samples for LHRD

---

### TABLE: LAB USE ONLY

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**TAT:**
- **Gamma A:** Overnight ≤ 24 hrs
- **Gamma B:** Emergency Next Workday
- **Gamma C:** Critical 2 Workdays
- **Gamma D:** Urgent 3 Workdays

**Standard TAT:**

**Preservatives:**
- H+HCl, N+HNO₃, S+H₂SO₄, C=4°C
- Zn(ZnCl₂), O=NaOH, T=Na₂S₂O₃
Good morning. The sample should be labeled E-1-1. Thanks.
Also, go ahead and analyze E-12-1. Thank you.

---

Good morning Rebecca,

ATL sample receiving processed the samples received for the above referenced project. The sample collected @ 1023 listed on coc as E-1-1, but the sample we received labeled as E-1-0.5. We also would like to let you know that we received ripped plastic baggie for E-12-1. This bag was taken from the bottom of the cooler and ice melt may have gotten inside the bag since the soil sample was wet.

Please advise. Attached is a copy of the COC for your reference.

Regards,

Ron Diwa | Sample Control
ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Avenue, Signal Hill CA 90755 | www.atlglobal.com
May 10, 2019

Rebecca Silva  
Geocon Consultants, Inc.  
3160 Gold Valley Drive, Suite 800  
Rancho Cordova, CA 95742  
Tel: (916) 852-9118  
Fax: (916) 852-9132

Re: ATL Work Order Number: 1901662  
Client Reference: Meadowview Road, S1713-05-01

Enclosed are the results for sample(s) received on April 24, 2019 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

[Signature]

Edgar Caballero  
President & Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.
## SUMMARY OF SAMPLES

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# Certificate of Analysis

**Geocon Consultants, Inc.**

3160 Gold Valley Drive, Suite 800  
Rancho Cordova, CA 95742  

**Project Number:** Meadowview Road, S1713-05-01  
**Report To:** Rebecca Silva  
**Reported:** 05/10/2019

---

## TCLP Metals by ICP-AES EPA 6010B

**Analyte:** Lead  
**Analyst:** GO

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## STLC Metals by ICP-AES by EPA 6010B

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**Analyst:** GO

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# Certificate of Analysis

Geocon Consultants, Inc.  
3160 Gold Valley Drive, Suite 800  
Rancho Cordova, CA 95742  

Project Number: Meadowview Road, S1713-05-01  
Report To: Rebecca Silva  
Reported: 05/10/2019

## QUALITY CONTROL SECTION

### TCLP Metals by ICP-AES EPA 6010B - Quality Control

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<th>Analyte</th>
<th>Result (mg/L)</th>
<th>PQL (mg/L)</th>
<th>MDL (mg/L)</th>
<th>Spike Level</th>
<th>Source</th>
<th>% Rec</th>
<th>Limits</th>
<th>RPD</th>
<th>Limit</th>
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Prepared: 5/8/2019  
Analyzed: 5/9/2019
# Certificate of Analysis

Geocon Consultants, Inc.  
3160 Gold Valley Drive, Suite 800  
Rancho Cordova, CA 95742  
Project Number: Meadowview Road, S1713-05-01  
Report To: Rebecca Silva  
Reported: 05/10/2019

## STLC Metals by ICP-AES by EPA 6010B - Quality Control

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<th>PQL (mg/L)</th>
<th>MDL (mg/L)</th>
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## Certificate of Analysis

Geocon Consultants, Inc.  
3160 Gold Valley Drive, Suite 800  
Rancho Cordova , CA 95742  

Project Number : Meadowview Road, S1713-05-01  
Report To : Rebecca Silva  
Reported : 05/10/2019

### Notes and Definitions

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<th>Code</th>
<th>Description</th>
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<td>Sample required dilution due to possible matrix interference.</td>
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<td>Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL).</td>
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<td>PQL</td>
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<td>OR1</td>
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**Notes:**

1. The reported MDL and PQL are based on prep ratio variation and analytical dilution.
2. The suffix [LC] of specific analytes signifies that the reported result is taken from the instrument's second column.
3. Results are wet unless otherwise specified.
Hi Carmen – please analyze the following samples for WET lead and TCLP lead (as noted) under standard TAT.

E-2-0
E-3-0
E-5-0
E-6-0
E-7-1
E-9-0 (plus TCLP lead)
E-11-0
E-13-0 (plus TCLP lead)
E-14-0 (plus TCLP lead)
E-15-0 (plus TCLP lead)
E-15-1

Thank you.
Gemma Reblando

Geocon Consultants, Inc.
Phone 916.852.9118

Good afternoon Rebecca,

Please find your results for the above project attached. If I can further assist, please let me know.

Thank you,

Carmen Aguila | Project Manager
ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Avenue, Signal Hill CA 90755
http://www.atlglobal.com

Laboratory Excellence Defined
### SUMMARY OF STATISTICAL ANALYSIS

MEADOWVIEW ROAD/21ST STREET STREETSCAPE IMPROVEMENTS
SACRAMENTO, CALIFORNIA

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### Excavation Scenarios

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<tr>
<td>0 to 1 foot</td>
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<tr>
<td>Underlying Soil (1 to 1.5 feet)</td>
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<td>0 to 1.5 feet</td>
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**Notes:**

UCL = Upper Confidence Level
mg/kg = milligrams per kilogram
mg/l = milligrams per liter

* = WET soluble lead concentrations were predicted using slope of the regression line,

where \( y \) = predicted WET soluble lead and \( x \) = total lead

**Regression Line Slope:**

\[
y = 0.0530x - 1.5048
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<td>Data appear to follow a Discernible Distribution at 5% Significance Level</td>
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<td>Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.</td>
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<td>Recommendations are based upon data size, data distribution, and skewness.</td>
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<tr>
<td>83</td>
<td>These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).</td>
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<td>84</td>
<td>However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.</td>
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</table>

Page 567 of 580
# MEADOWVIEW ROAD/24TH STREET STREETSCEAPE IMPROVEMENTS

**Date/Time of Computation:** ProUCL 5.15/10/2019 5:14:16 PM

**From File:** WorkSheet.xls

**Full Precision:** OFF

**Confidence Coefficient:** 95%

**Number of Bootstrap Operations:** 2000

## 1 to 1.5 feet

### General Statistics

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<thead>
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<th>Total Number of Observations</th>
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<tr>
<td>Number of Distinct Observations</td>
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<tr>
<td>Minimum</td>
<td>3.2</td>
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<tr>
<td>Maximum</td>
<td>92</td>
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<tr>
<td>Number of Missing Observations</td>
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<tr>
<td>Mean</td>
<td>13.11</td>
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<tr>
<td>Std. Error of Mean</td>
<td>4.95</td>
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<tr>
<td>Coefficient of Variation</td>
<td>1.749</td>
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<tr>
<td>Skewness</td>
<td>3.025</td>
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### Normal GOF Test

- **Shapiro Wilk Test Statistic:** 0.469
- **Shapiro Wilk GOF Test:** Data Not Normal at 5% Significance Level
- **5% Shapiro Wilk Critical Value:** 0.887
- **Lilliefors Test Statistic:** 0.432
- **Lilliefors GOF Test:** Data Not Normal at 5% Significance Level
- **5% Lilliefors Critical Value:** 0.202

### Data Not Normal at 5% Significance Level

#### Assuming Normal Distribution

- 95% Normal UCL
- 95% Student's-t UCL: 22.51
- 95% UCLs (Adjusted for Skewness)
- 95% Adjusted-CLT UCL (Chen-1995): 26.11
- 95% Modified-t UCL (Johnson-1979): 23.15

#### Gamma GOF Test

- **A-D Test Statistic:** 3.07
- **Anderson-Darling Gamma GOF Test:** Data Not Gamma Distributed at 5% Significance Level
- 5% A-D Critical Value: 0.771
- **K-S Test Statistic:** 0.385
- **Kolmogorov-Smirnov Gamma GOF Test:** Data Not Gamma Distributed at 5% Significance Level
- **5% K-S Critical Value:** 0.21

#### Data Not Gamma Distributed at 5% Significance Level

#### Gamma Statistics

<table>
<thead>
<tr>
<th>k hat (MLE)</th>
<th>0.905</th>
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<tr>
<td>Theta hat (MLE)</td>
<td>14.49</td>
</tr>
<tr>
<td>nu hat (MLE)</td>
<td>32.57</td>
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<tr>
<td>MLE Mean (bias corrected)</td>
<td>13.11</td>
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<tr>
<td>Adjusted Level of Significance</td>
<td>0.0357</td>
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</table>

#### Assuming Gamma Distribution

- 95% Approximate Gamma UCL (use when n>=50): 21.57
- 95% Adjusted Gamma UCL (use when n<50): 22.67

#### Lognormal GOF Test

- **Shapiro Wilk Test Statistic:** 0.716
- **Shapiro Wilk Lognormal GOF Test:** Data Not Lognormal at 5% Significance Level
- **5% Shapiro Wilk Critical Value:** 0.897
### Lognormal Statistics

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<tr>
<th>Minimum of Logged Data</th>
<th>Mean of logged Data (SD of logged Data)</th>
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<tr>
<td>1.163</td>
<td>1.927 (0.931)</td>
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<tr>
<td>Maximum of Logged Data</td>
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<td>4.522</td>
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### Assuming Lognormal Distribution

<table>
<thead>
<tr>
<th>95% H-UCL</th>
<th>90% Chebyshev (MVUE) UCL</th>
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<tbody>
<tr>
<td>18.81</td>
<td>17.68</td>
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### Nonparametric Distribution Free UCL Statistics

**Data do not follow a Discernible Distribution (0.05)**

### Nonparametric Distribution Free UCLs

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<tr>
<th>95% CI UCL</th>
<th>95% Jackknife UCL</th>
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<tr>
<td>21.199</td>
<td>22.51</td>
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<table>
<thead>
<tr>
<th>95% Standard Bootstrap UCL</th>
<th>95% Bootstrap-t UCL</th>
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<td>21.88</td>
<td>74.38</td>
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<table>
<thead>
<tr>
<th>95% Hall's Bootstrap UCL</th>
<th>95% Percentile Bootstrap UCL</th>
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<td>72.73</td>
<td>22.81</td>
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<table>
<thead>
<tr>
<th>95% BCA Bootstrap UCL</th>
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<tbody>
<tr>
<td>25.52</td>
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<table>
<thead>
<tr>
<th>90% Chebyshev(Mean, Sd) UCL</th>
<th>95% Chebyshev(Mean, Sd) UCL</th>
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<tr>
<td>29.32</td>
<td>36.66</td>
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<table>
<thead>
<tr>
<th>97.5% Chebyshev(Mean, Sd) UCL</th>
<th>99% Chebyshev(Mean, Sd) UCL</th>
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<tr>
<td>46.85</td>
<td>66.87</td>
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### Suggested UCL to Use

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<tr>
<td>36.66</td>
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</table>

### Note

- Suggestions regarding the selection of a 95% UCL are provided to help the user select the most appropriate 95% UCL.
- Recommendations are based upon data size, data distribution, and skewness.
- These recommendations are based upon the results of the simulation studies summarized in Singh, Maichta, and Lee (2006).
- However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.
<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Total Lead (mg/kg)</th>
<th>WET Lead (mg/l)</th>
<th>Predicted WET Lead (mg/l)</th>
<th>Residual WET Lead (mg/l)</th>
<th>Squared Residual WET Lead (mg/l)</th>
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<tr>
<td>E-15-1</td>
<td>92</td>
<td>3.3</td>
<td>3.4</td>
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<td>0.01</td>
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<td>E-3-0</td>
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<td>3.0</td>
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<td>E-5-0</td>
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<td>E-11-0</td>
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<td>E-2-0</td>
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<td>E-13-0</td>
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<td>8.1</td>
<td>5.4</td>
<td>2.71</td>
<td>7.35</td>
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</table>

**Total vs WET Lead**

\[
y = 0.050x - 1.5648 \\
\text{r}^2 = 0.0640 \\
\text{r} = 0.0818
\]

**Total vs Residual WET Lead**
"T15145500 Meadowview Contract 4-1-2020" History

Document created by Jose Ledesma (jledesma@cityofsacramento.org)

Document emailed to Gerald C. Hicks (ghicks@cityofsacramento.org) for signature
2020-04-06 - 3:17:54 PM GMT

Email viewed by Gerald C. Hicks (ghicks@cityofsacramento.org)
2020-04-06 - 3:32:57 PM GMT- IP address: 208.87.80.2

Document e-signed by Gerald C. Hicks (ghicks@cityofsacramento.org)
Signature Date: 2020-04-06 - 3:35:18 PM GMT - Time Source: server- IP address: 208.87.80.2

Signed document emailed to all eligible parties.
2020-04-06 - 3:35:18 PM GMT
City of Sacramento
SUPPLEMENTAL AGREEMENT

Contract #: 2015-0010-16
Purchase Order #: 27365
Job#: T15145500
Project Title: Meadowview Road/24th Street Streetscape Improvements

Supplemental Agreement #: 16

The City of Sacramento ("City") and Bennett Engineering, ("Contractor"), as parties to that certain Professional Services Agreement designated as Agreement Number 2015-0010, including any and all prior supplemental agreements modifying said agreement (said agreement and supplemental agreements are hereby collectively referred to as the "Agreement"), hereby supplement and modify the Agreement as follows:

1. The Scope of Services specified in Exhibit A of the Agreement is amended as follows:
   
   See Exhibit A

2. In consideration of the additional and/or revised services described in section 1, above, the maximum not-to-exceed amount that is specified in Exhibit B of the Agreement of Payment of Contractor's fees and expenses, is increased by $20,000.00 and said maximum not-to-exceed amount is amended as follows:

   The original not-to-exceed amount: $482,619.86
   The net change by previous Supplemental Agreements: $331,877.55
   The not-to-exceed amount prior to this Supplemental Agreements: $814,497.41
   The contract sum will be increased by this Supplemental Agreement: $20,000.00
   The new not-to-exceed amount including all Supplemental Agreements: $834,497.41

3. Contractor agrees that the amount of increase or decrease in the not-to-exceed amount specified in section 2, above, shall constitute full compensation for additional and/or revised services specified in section 1, above, and shall fully compensate Contractor for any and all direct and indirect costs that may be incurred by Contractor in connection with such additional and/or revised services, including costs associated with any changes in work schedules or in the performance of other services or work by Contractor. The time for the performance of the agreement is increased by 0 Days by reason of the performance of the work required by this Supplemental Agreement.

4. Contractor warrants and represents that the person or persons executing this supplemental agreement on behalf of Contractor has or have been duly authorized by Contractor to sign this supplemental agreement and bind Contractor to the terms hereof.

5. Except as specifically revised herein, all terms and conditions of the Agreement shall remain in full force and effect, and Contractor shall perform all the services, duties, obligations and conditions required under the Agreement, as supplemented and modified by this supplemental agreement.

Approval Recommended By:  
Project Manager

Approved as to Form By:  
City Attorney

Approved By:

Contractor

Approved By:  
Attested to By:

City of Sacramento
Executed Date
City Clerk

(Rev. 07/16/08)
# Exhibit A
Meadowview Road/24th Street Streetscape Improvements
2015-0010

## Description

<table>
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<th>Description</th>
<th>Amount</th>
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<td>Supplemental Agreement #16</td>
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<tr>
<td>PCO # 16.0 Changed/Unforeseen Conditions</td>
<td>$20,000.00</td>
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<td>03/18/20</td>
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This supplement is authorizing the reallocation and budget increase of $20,000 in order to cover additional coordination and design efforts during utility coordination and final design. Cost proposal and task, budget, and billing summary included.

<table>
<thead>
<tr>
<th>Items</th>
<th>Total for Change Order # 16</th>
<th>$20,000.00</th>
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<td>Changes to Bid Documents</td>
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<tr>
<td>Client Initiated Changes</td>
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## Totals By Reason

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</table>
March 17, 2020

Zuhair Amawi, PE
Senior Engineer
City of Sacramento Department of Public Works
915 I Street, Suite 2000
Sacramento, CA 95814

Subject: Meadowview Rd/24th St Streetscape Project (T15145500) / Supplemen tal Budget Increase

Mr. Amawi:

We are requesting budget transfer and consolidation of completed tasks to cover additional coordination and design efforts during utility coordination and final design. Additional coordination efforts included utility field and ongoing coordination meetings, assisting City with Federal and State funding processes and Right of Way coordination with public and City Right of Way staff.

We are also requesting a supplemental budget increase of $20,000 in order to provide the City with additional design support during construction.

Please see the attached cost proposal and revised work plan for your review and approval.

Please do not hesitate to contact me if you have any questions or need further information.

Sincerely,

Leo Rubio, PE
President

Enc. Cost Proposal
Work Plan
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</tbody>
</table>
**Bennett Engineering Services, Inc.**
1082 Sunrise Avenue, Suite 100
Roseville, CA 95661
916.793.4100   TIN 26-1386516

**REvised BUDGET**

**SA-16**

03/17/2020

City of Sacramento
Zuhair Amawi, PE
SEND VIA EMAIL:
apinvoices@cityofsacramento.org
cc: RRich@cityofsacramento.org
14-325 Meadowview Rd/24th St Streetscape Improvements

**Professional Services through**

<table>
<thead>
<tr>
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<th>Original Contract Amount</th>
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City of Sacramento
14-325 Meadowview Rd/24th St Streetscape Improvements
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### CITY OF SACRAMENTO 10-H FORM

**Approved with Supplement # (type Original if it is the Original): Supplement #16**

**CONTRACTOR Name:** Bennett Engineering Services, Inc

**Project Name:** Meadowview Road24th St Streetscape

**Date:** 3/17/2020

---

**Fringe Benefit %:**

33.78%

**Overhead %**

123.35%

**Combined %**

157.13%

**Profit %:**

7.06%

**Profit %**: 

\[ \text{Profit} = \frac{\text{Actual Base Hourly Rate Paid to Employee} + (\text{Actual Base Hourly Rate Paid to Employee} \times \text{Combined} \%) \times A}{\text{A} \times \text{Profit} \% = B} \]

\[ A = B + \text{Actual Fully Loaded Hourly Rate} \]

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**Other Direct Costs**

- Direct Labor Costs
- Subcontractor Costs
- Material Costs
- Equipment Rental
- Travel (miles)

**Indirect Costs**

- G&A (General and Administrative)
- Profit

**Total Cost**

$1,300.00

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1. List all Professional and Supervisory staff by Classification and Name. For staff not listed by name but by classification only, a current payroll document identifying their actual base hourly rate shall be provided with every invoice where an unlisted staff line item is charged. The approved flat hourly billing rates for all employees will be calculated and reimbursed based on their actual base hourly rates per the date noted above unless CITY Project Manager assigns a fair and reasonable flat hourly billing rate for selected employees. For staff not listed by name but by classification only, the reimbursement will not exceed the approved flat hourly billing rate for that classification. Approved flat hourly billing rates for new employees hired after the date of this cost proposal will not exceed (or shall be in line with) the rates of similar personnel with similar experience based on this cost proposal. The approved flat hourly billing rate shall be all-inclusive, including all mark-ups, fringe, and overhead expenses and profit.

2. Key Staff shall be determined by CITY Project Manager. (i.e., named Project Manager, a specific Principal Engineer, a specific Structural Engineer, etc.) Note Key staff with an "X" in the Key Staff column.

3. The employees' actual base hourly rates used to calculate the flat hourly billing rates in this 10-H Form are the rates that were effective per the date noted above. Additions of new staff, new classifications, or addition of a SUBCONTRACTOR not previously listed on the approved 10-H Form(x) shall require written approval from the CITY. No work shall commence until the approval is provided by the CITY. New staff shall be paid at the same or lower approved flat hourly billing rate of the previously approved or similar classification. In addition, if the substitution involves Key Staff, CONTRACTOR must request and justify the need for the substitution and obtain approval from CITY Project Manager. Substituted Key Staff shall be as qualified as the original.

4. Approved flat hourly billing rates include standard equipment including laptop, camera, cell phone, truck, standard personal safety equipment. CITY Project Manager shall approve any other direct costs.

5. Note employees/classifications that are subject to prevailing wage requirements with an "X" in the Prevailing Wage column. Prevailing Wage specified is based on current Department of Industrial Relations (DIR) determination. CONTRACTOR shall be responsible for any future adjustments to the prevailing wage, including but not limited to, base hourly rates and employer payments as determined by the DIR. CONTRACTOR is responsible for paying the appropriate rate, including escalations that take place during the term of the Agreement. CONTRACTOR shall be reimbursed at the above listed approved flat hourly billing rates.

6. Over-time may be reimbursed to classifications where it is required by their union contracts (Prevailing Wage classifications). Over-time will not be charged unless prior written approval is received by CITY Project Manager. CITY shall pay CONTRACTOR at the approved over-time rates noted above. CONTRACTOR shall pay prevailing wage employees per prevailing wage guidelines.

7. Local transportation costs resulting from commuting to and from the employee's residence to the office or job site are not reimbursable.

8. The Project will not reimburse CONTRACTOR for costs to relocate its staff to the geographic area of the contract. The Project will reimburse CONTRACTOR for any per diem costs.

9. CDC Items to be in compliance with Code of Federal Regulations, Title 48 Part 31 [Federal Acquisition Regulations (FAR) cost principles] and the Firm's company-wide allocation policies and charging practices with all clients including federal government, state government, local agencies and private clients.

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By signing here, you agree to the terms above, and attest that all information is accurate and true.

CONTRACTOR/CONTRACTOR Project Manager's Signature

Lee Rubo

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Version: December 5, 2018