AGENDA

WELCOME REMARKS BY ELECTED OFFICIALS
(Congresswoman Matsui, Mayor Steinberg, Vice Mayor Harris)

PROJECT CONTEXT

SACRAMENTO VALLEY STATION AREA VISION

TRANSIT CONNECTIVITY FRAMEWORK
(Partner Speaker: Robert Padgette, Managing Director at CCJPA)

DEVELOPMENT PATTERN
• New Station Concourse
• Bus Mobility Center
• Public Realm Interventions
(Partner Speaker: Ty Smith, Museum Director at California State Parks Department)

SUSTAINABILITY STRATEGIES
• Living Community Challenge Vision per ILFI
• District Energy + Water Strategy
(Partner Speaker: Kathleen Ave, Senior Climate Program Manager at SMUD)

PROJECT PHASING & NEXT STEPS

Q&A / DISCUSSION
EXISTING CONTEXT

- Kaiser Medical Campus Site
- Central Shops District
- 1/4 mile
- MLS Stadium Site
PLACEMAKING
Respond to the existing context

• Create a civic landmark and a welcoming gateway to the City
• Create a vibrant destination
• Catalyze new development
• Create an efficient multimodal hub
• Provide ease of connectivity to, from and through the station
• Ensure parking need is minimized
USER EXPERIENCE
Programming and Wayfinding

- Showcase the culture and identity of Sacramento
- Enable a diverse mix of uses and activities
- Ensure a clear and legible urban environment
SUSTAINABILITY
Whole-systems thinking

- Reduce greenhouse gas emissions
- Leverage and enhance the natural systems
- Prioritize health and well-being of the people

BUFFALO BAYOU, HOUSTON
SUSTAINABILITY

LIVING COMMUNITY CHALLENGE
Sacramento Valley Station Master Plan is registered for the Living Community Challenge (LCC). LCC is a certification program that guides the design and construction of buildings and neighborhoods to be socially just, culturally rich, and ecologically restorative. LCC projects aim to have a net positive impact in seven petals: place, water, energy, health & happiness, materials, equity, and beauty.

LIVING BUILDING CHALLENGE
The new station building is registered for the Living Building Challenge (LBC). LBC is a certification program that guides the design and construction of buildings to be socially just, culturally rich, and ecologically restorative. LBC projects aim to have a net positive impact in seven petals: place, water, energy, health & happiness, materials, equity, and beauty.

“Development in the Railyards will propel the City of Sacramento toward its goal of becoming a national leader in sustainable development.”
TRANSIT CONNECTIVITY
TRANSIT CONNECTIVITY
Efficient and seamless multi-modal connectivity

Sacramento Valley Historic Station
TRANSIT CONNECTIVITY
Efficient and seamless multi-modal connectivity

- Street Car
- Bus Mobility Center + District Parking
- New Station Concourse
- SacRT Light Rail Station
TRANSIT FRAMEWORK
PEDESTRIAN AND BIKE NETWORK
Bike and pedestrian friendly community
A Welcoming Car-free Transit Plaza and a Thriving Transit-integrated Community
DEVELOPMENT PATTERN
BUS MOBILITY CENTER + CONCOURSE
BUS MOBILITY CENTER

PROGRAM ORGANIZATION BY LEVEL
- Canopy soffit edge
- Biophilic funnels
- Canopy columns
- Stairs & elevators
- Back of house

PARKING LEVEL
- Bike Hub
- Restrooms
- Connection to existing Tunnel level

BUS PLAZA LEVEL
- Future escalator provision for Concourse level
- Stairs & elevators
- Back of house
- Bike Hub
- Restrooms
- Connection to existing Tunnel level

Main structure
- Roof slats
- Photovoltaic panels

TRANSIT HUB PRECEDENTS
- Biophilic design
- Biophilic integration

Question 1: What is your favorite place connected to nature in the Sacramento Region? How can the bus terminal and station incorporate elements of Sacramento's natural environment into its design?

LIVING BUILDING CHALLENGE
- Perkins+Will
- Grimshaw
- Arup
- Nelson/Nygaard
- Aim Consulting
- EPS
- Sacramento Valley Station Master Plan

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Is a method of designing the places in which we live and work in a way that satisfies our deep and fundamental need to be connected with nature. (From the Human Spaces Global Report 2015)
BIOPHILIC ENVIRONMENT
Living design to provide human comfort and an intentional connectedness to nature
VIADUCT PARK

- Playground
- Community Garden
- Plaza
- Regenerative Garden
- Railroad Museum
- Rock Climbing Area
- Dog Park
- Rain Garden
- Skate Park
- Viaduct Park
HOTEL AND RESIDENTIAL BLOCKS
SUSTAINABLE STRATEGIES
BUILDING ORIENTATION
Hotel
Rectangular tower oriented with long axis east-west reduces predicted EUI by approximately 1.5-2.5%.

Office
Rotating south office building 90° or with long axis east-west reduces predicted energy use intensity by approximately 3.4-5%.
REGENERATIVE UTILITY CENTER DESIGN

VISUAL TERMINUS FRAMED BY TREES AND CIVIC CANOPIES - MAIN ENTRY TO ENERGY WATER CENTER

RETAIL / CAFE OPENING ONTO STREET

BACK OF HOUSE ACCESS

PUBLIC ATRIUM CONNECTING EXTENSION TO OLD STATION WING & ENERGY WATER CENTER - WITH ACCESS TO PLAZA (HOTEL ENTRY POSITIONED IN RELATION TO THIS ACCESS POINT ACCROSS THE STREET)
DISTRICT ENERGY SYSTEM
Centralized on-site energy generation and distribution
DISTRICT ENERGY SYSTEM
Bus Mobility Center Geothermal Energy Piles

Similar manifold space required in station building (3’ x 5’ rack per zone, likely 2-4 zones)

65’ deep piles with 2-4 pipes per pile
DISTRICT WATER SYSTEM
Centralized on-site waste water recycling and distribution
LIVING COMMUNITY CHALLENGE PLAN

STORMWATER MANAGEMENT
Low impact development practices are designed to manage stormwater.

COMMUNITY OPEN SPACE
Active recreation opportunities are available to community members through parks and outdoor fitness equipment.

HABITAT EXCHANGE
Sacramento Valley Station seeks to provide and enhance habitat for native species such as the Purple Martin and Swallow's Nest.

URBAN AGRICULTURE
A community garden with raised beds for residents to cultivate local food.

REGENERATIVE UTILITY CENTER
Centralized on-site energy generation and distribution (i.e., combined heat and power generation).

RENEWABLE ENERGY SUPPLY
All buildings are powered with 100% renewable energy through a combination of onsite and offsite-sourced generation.

TRANSIT CONNECTIVITY
Efficient and seamless multi-modal interchange between regional rail, light rail, bus, bike, trails, bicycles, and pedestrians.

BIOPHILIC DESIGN
Occupant’s well-being will be promoted through incorporation of natural systems, patterns, and elements in design.

BIKEABLE AND PEDESTRIAN FRIENDLY COMMUNITY
Pedestrian paths and bike routes connect the entire site to promote an active lifestyle and supporting an active and healthy lifestyle.

TREE CANOPY
Carefully placed trees to mitigate urban heat island effect by providing shade, cooling, and cleaner air.
PROJECT PHASING

Phase 3.1

Phase 3.2

Phase 3.3

Phase 3.4