

SFOBB Maintenance Complex Contractors' Outreach

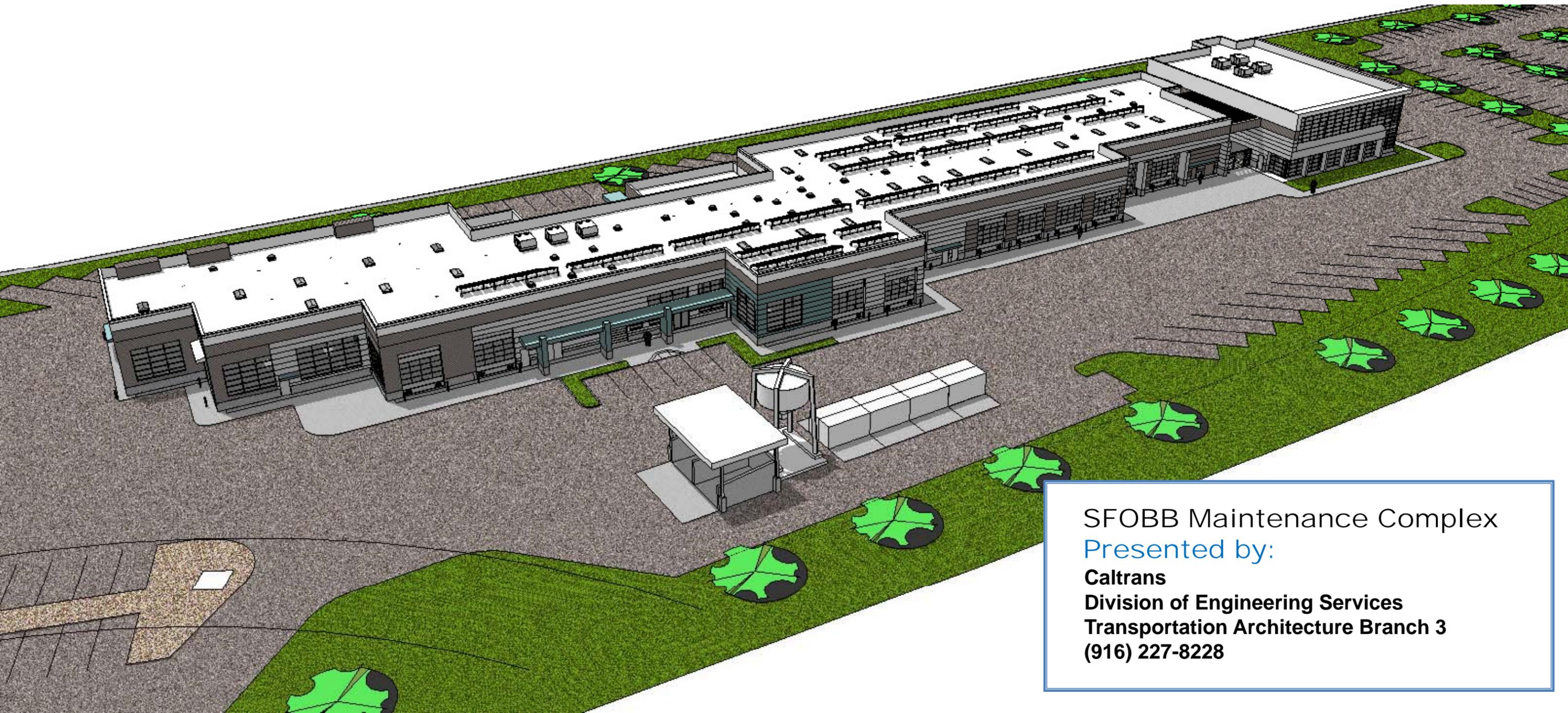


November 19, 2012

A Project for Caltrans District 04 & BATA

SFOBB Maintenance Complex

Replacement Facility for Toll Bridge Maintenance
Project ID 04 0000 0038



SFOBB Maintenance Complex
Presented by:
Caltrans
Division of Engineering Services
Transportation Architecture Branch 3
(916) 227-8228

A Project for Caltrans District 04 & BATA

SFOBB Maintenance Complex

Project ID 04 0000 0038

Reasons for building replacement:

- Existing Buildings have served their useful life
 - ❖ Structures over fifty years of age
- Existing Buildings needed to be brought up to code
 - ❖ Seismic Codes- damage from 89' Loma Prieta Earthquake
 - ❖ Accessibility Codes
- Existing Buildings not energy efficient
- Existing Buildings do not meet operational needs
- Existing Buildings were lacking new upgrades
 - ❖ Communication and Data lines

Existing Buildings



INTERSTATE
80



Equipment Sub Shop and Electrical Shop



IERBYS Warehouse and Paint Shop

A Project for Caltrans District 04 & BATA

SFOBB Maintenance Complex

Project ID 04 0000 0038

Project Scope of Work:

- Construction of new Maintenance Facility Complex for Toll Bridge Maintenance
 - Maintenance Facility to house 5 different Workgroups
 - ❖ Bridge Maintenance
 - ❖ Bridge Paint Maintenance
 - ❖ Bridge Electrical Maintenance
 - ❖ Bridge Vehicle Maintenance
 - ❖ Bridge Maintenance Management
 - Project also to include
 - ❖ Warehouse Storage
 - ❖ Fuel Island & Wash Rack
 - Building to be a minimum of LEED Silver per Governors Executive Order S-20-04
 - Requested BATA goal is to achieve LEED Gold



San Francisco Oakland Bay Bridge

Project Location
Maintenance Yard South of San Francisco- Oakland Bay Bridge Toll Plaza

SFOBB Maintenance Complex
Caltrans
Division of Engineering Services
Transportation Architecture Branch 3
(916) 227-8228





New Tow Service Building
Completed Dec 1, 2011

Existing Sub & Elec Shop
Tow Service Building- To
be demolished

San Francisco Oakland Bay Bridge Toll
Plaza and Operations Building- Currently
under construction

Existing Sub-Station

Existing Sub-Station

Historic IERBYS
Building
(Phase 3)

Phase 2 Property

West Site Entrance

East Site Entrance

Phase 1 Project Location
Maintenance Yard South of
San Francisco- Oakland Bay
Bridge Toll Plaza

Burma Road

SFOBB Maintenance Complex

Caltrans
Division of Engineering Services
Transportation Architecture Branch 3
(916) 227-8228



SFOBB Maintenance Complex

Caltrans
Division of Engineering Services
Transportation Architecture Branch 3
(916) 227-8228



Site Parking Phase 3
 100 Car
 City of Oakland Guidelines

Site Parking Phases 1 & 2
 100 Car
 72 Equipment Vehicles
 1-Semi Truck

GHWAY WINDOW

MUSEUM

REEN

Burma Road

CLEAN MAINTENANCE YARD

PARK ENTRY ROAD BURMA -
 ALTERNATIVE 2

Warehouse
 28,000 SF

Fuel Island and Wash Rack (Phase I)
 Canopy = 5,600 SF

Maintenance Building
 55,000 SF

CENTRAL DEVELOPMENT PARCEL

SFOBB Maintenance Complex
 Caltrans
 Division of Engineering Services
 Transportation Architecture Branch 3
 (916) 227-8228



District Engineers working on plan to keep utility road in design and be gated/secured

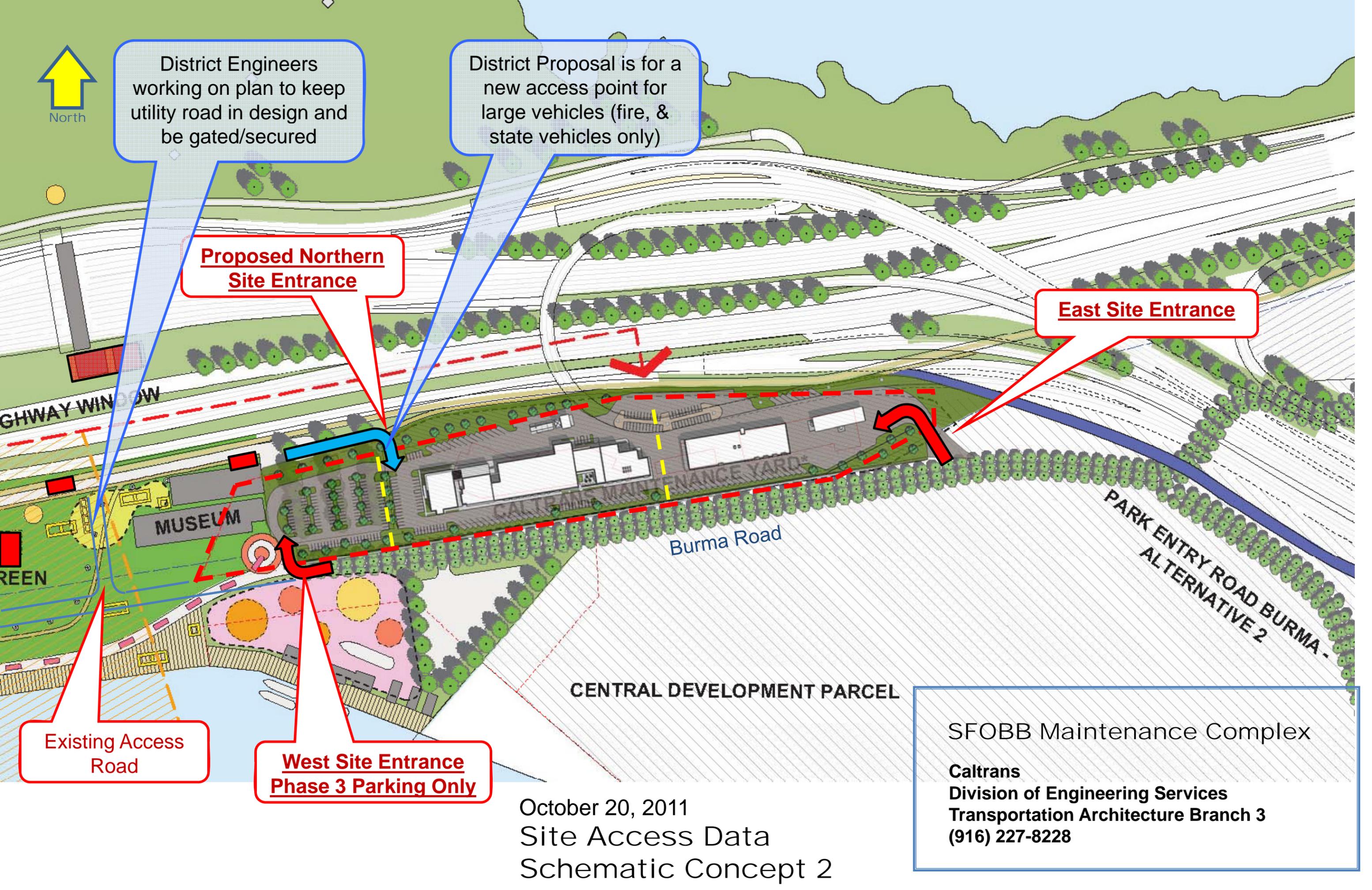
District Proposal is for a new access point for large vehicles (fire, & state vehicles only)

Proposed Northern Site Entrance

East Site Entrance

Existing Access Road

West Site Entrance Phase 3 Parking Only



SFOBB Maintenance Complex
Caltrans
Division of Engineering Services
Transportation Architecture Branch 3
(916) 227-8228

October 20, 2011
Site Access Data
Schematic Concept 2

The Design

Maintenance Storage Warehouse Building (Phase 2)



Old construction trailer

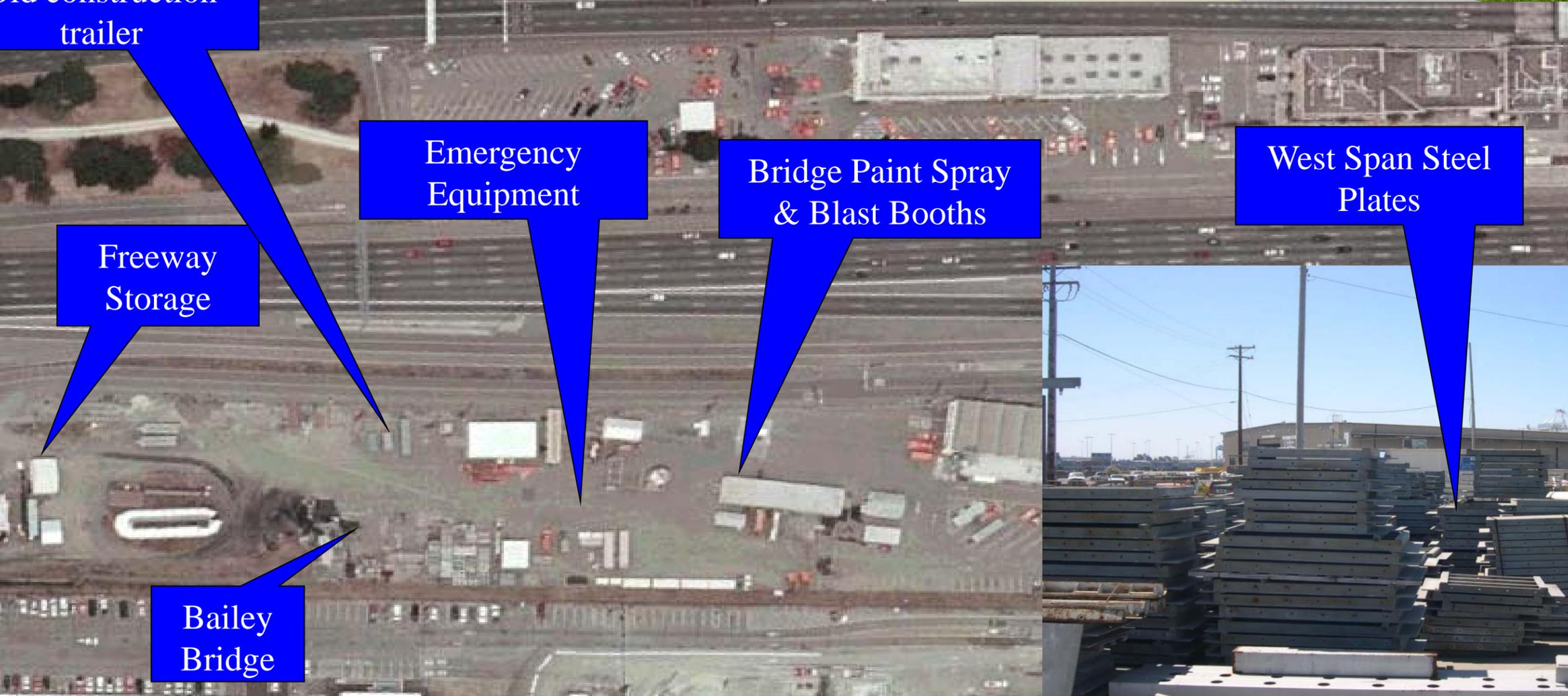
Freeway Storage

Bailey Bridge

Emergency Equipment

Bridge Paint Spray & Blast Booths

West Span Steel Plates

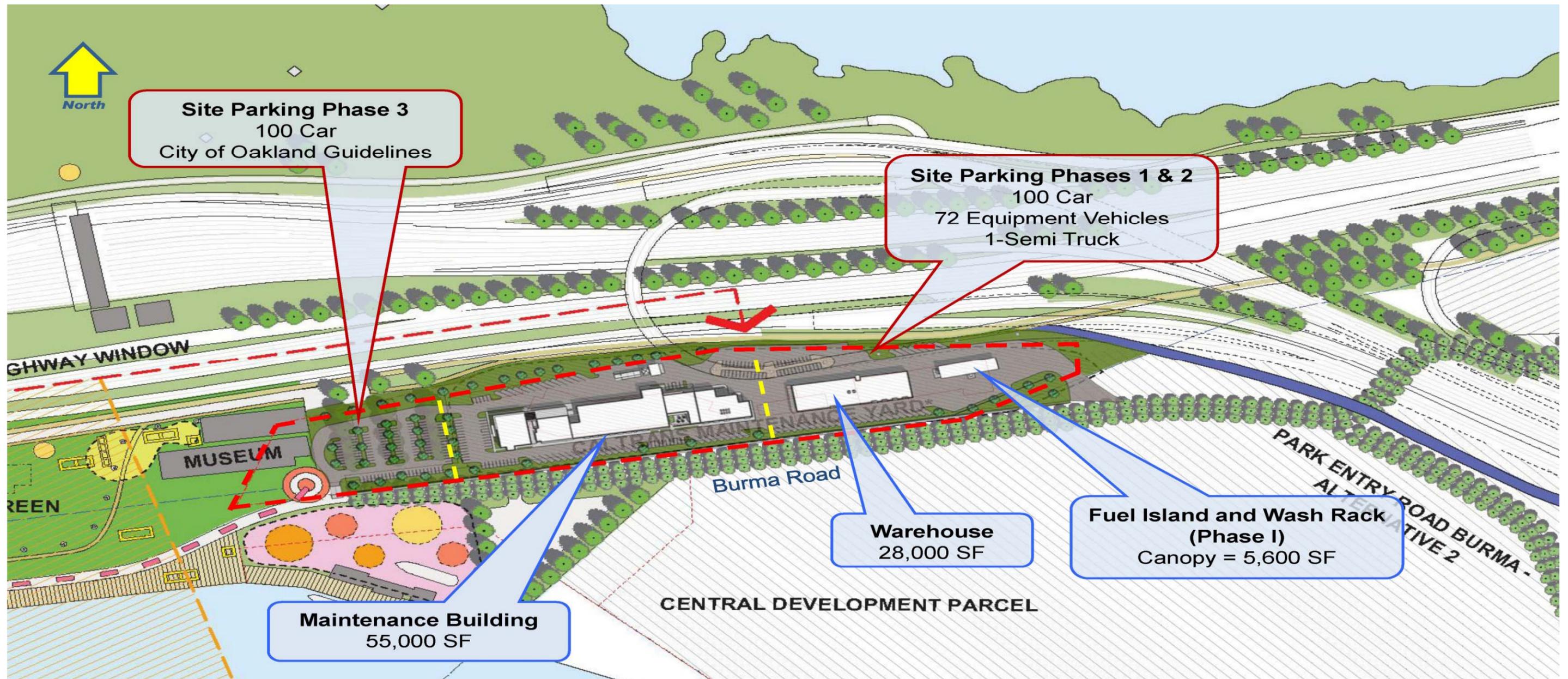


Wash Rack /Fuel Pump (Phase I)

Function: To provide fuel and washing to equipment and vehicle.
Serves the SFOBB Maintenance complex. Provides fueling, washing, and rinse bays for vehicles and equipment

Size: 500 enclosed square feet plus 2 vehicle fueling bays and 2 vehicle wash/ rinse bays.

Currently Maintenance uses existing pumps in the median and the Yard, but there is no formal wash rack



Aesthetics



**Fuel Island & Wash Rack
(Phase 1)**

**Warehouse Building
(Phase 2)**

**Maintenance Building
(Phase 1)**

Site Parking Phase 3

**Illustration does not show proposed
Northern access point onto site**

**Material Storage, Sand Silo,
and hazmat containers
(Phase 1)**

**Aerial view from the North of entire project site
including Phase 3 parking.**

SFOBB Maintenance Complex
Caltrans
Division of Engineering Services
Transportation Architecture Branch 3
(916) 227-8228



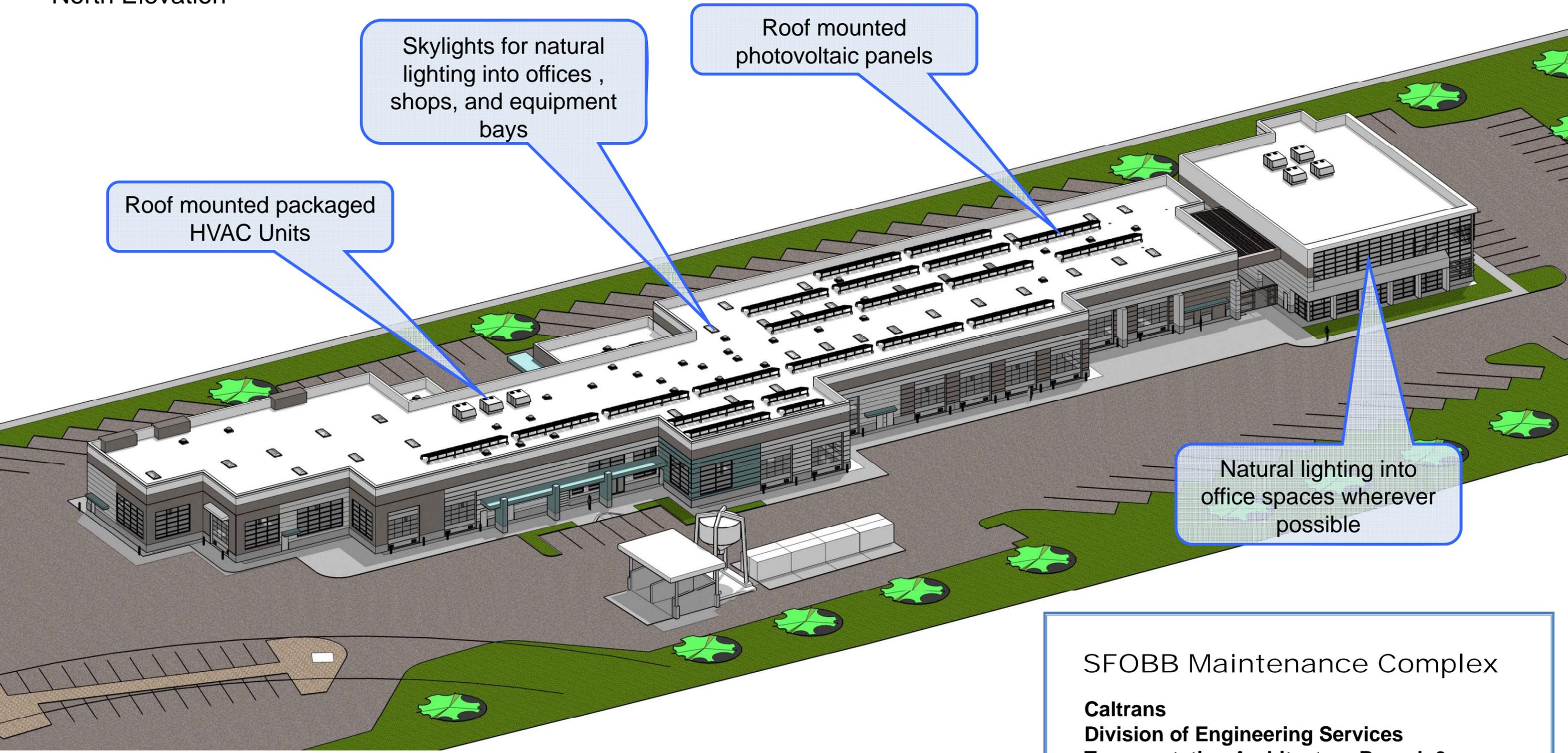
Aerial view from the South of entire project site including Phase 3 parking.

SFOBB Maintenance Complex

Caltrans
Division of Engineering Services
Transportation Architecture Branch 3
(916) 227-8228



North Elevation



Skylights for natural lighting into offices , shops, and equipment bays

Roof mounted photovoltaic panels

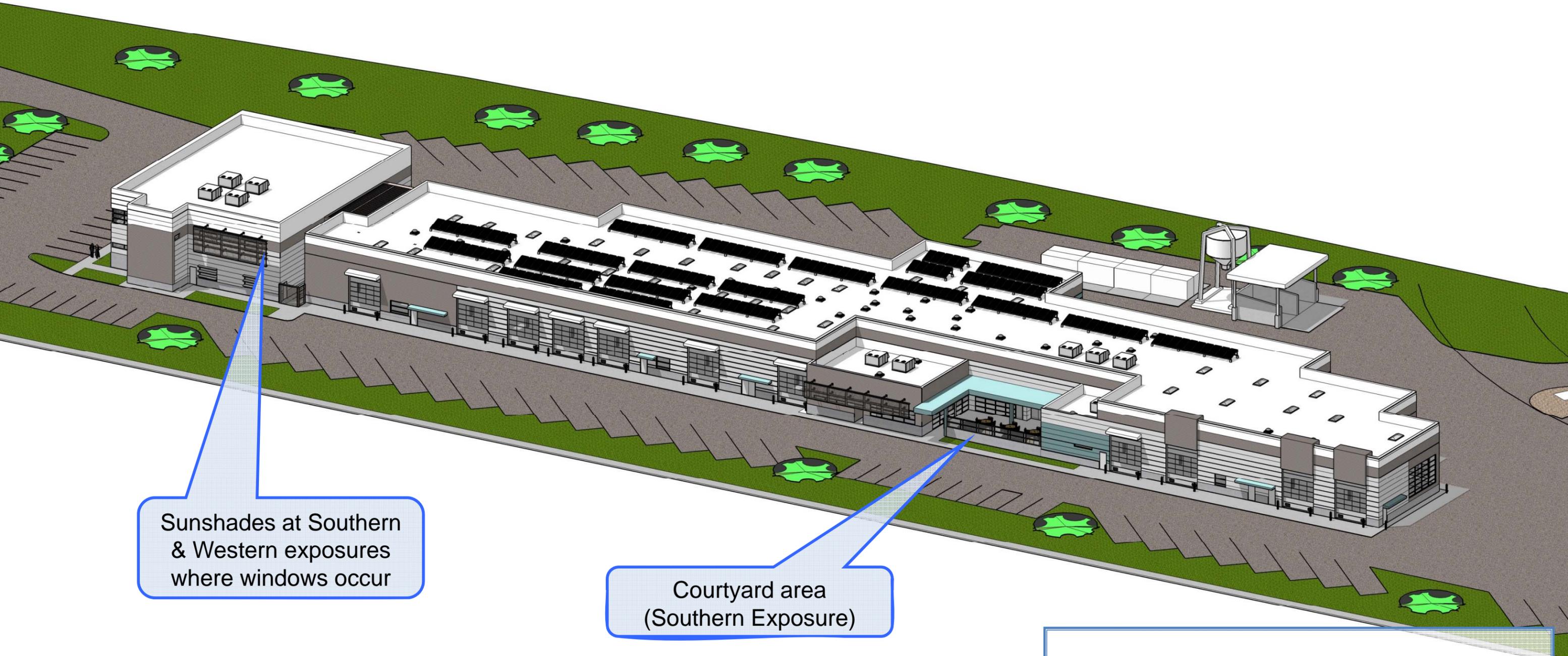
Roof mounted packaged HVAC Units

Natural lighting into office spaces wherever possible

SFOBB Maintenance Complex
Caltrans
Division of Engineering Services
Transportation Architecture Branch 3
(916) 227-8228

North Aerial

South Elevation



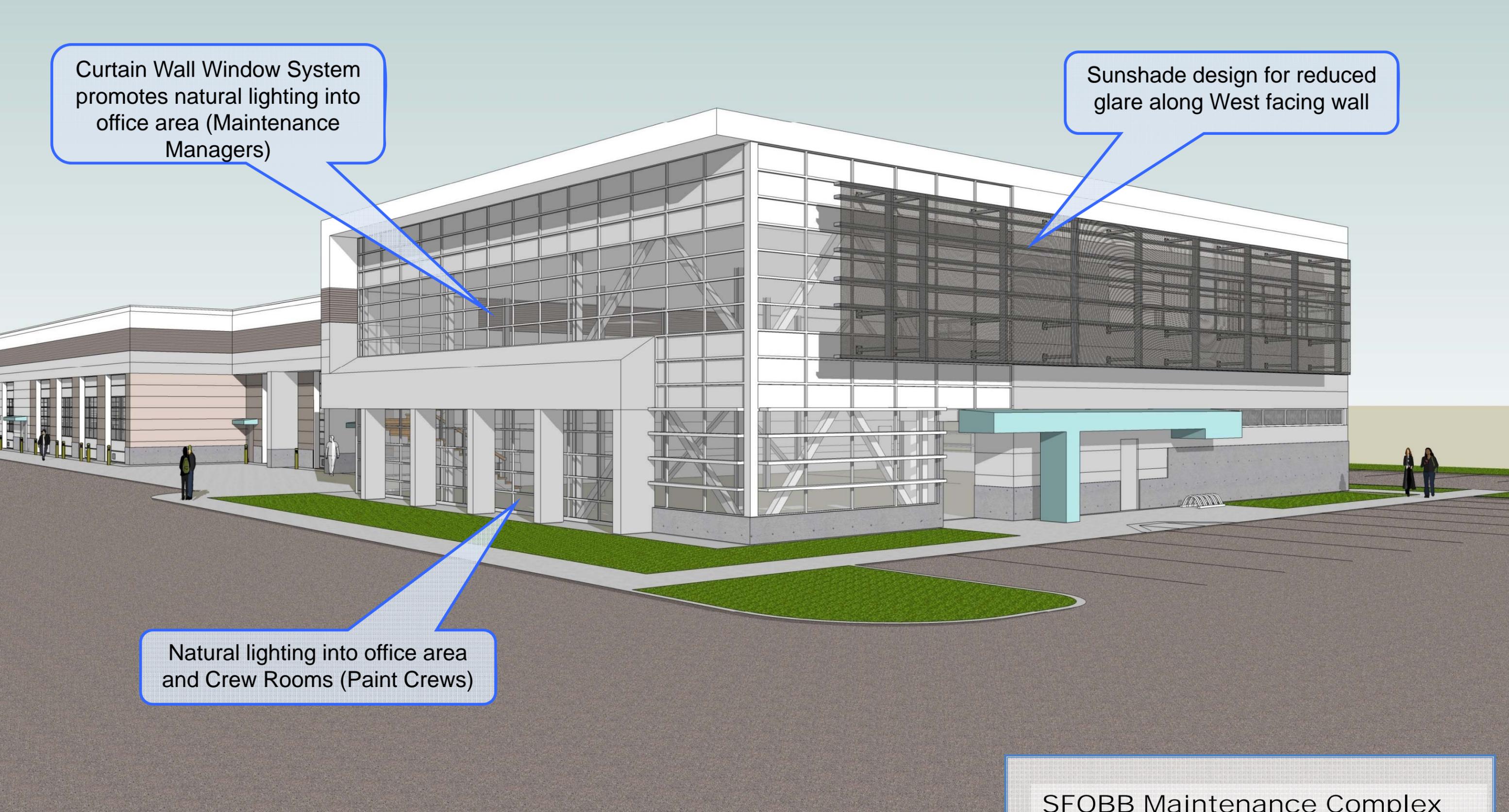
Sunshades at Southern
& Western exposures
where windows occur

Courtyard area
(Southern Exposure)

South Aerial

SFOBB Maintenance Complex

Caltrans
Division of Engineering Services
Transportation Architecture Branch 3
(916) 227-8228



Curtain Wall Window System promotes natural lighting into office area (Maintenance Managers)

Sunshade design for reduced glare along West facing wall

Natural lighting into office area and Crew Rooms (Paint Crews)

SFOBB Maintenance Complex
Caltrans
Division of Engineering Services
Transportation Architecture Branch 3
(916) 227-8228

North West Elevation

View of Maintenance Managers and Paint Crew Building

Insulated metal wall panels primary architecture building finish. Panel profiles a combination of flat and corrugated

Secured Breezeway between paint crew shops and 2-story building

Glazing provided in sectional overhead doors to promote natural daylighting in bay and shop areas

Awnings located over doors and entries

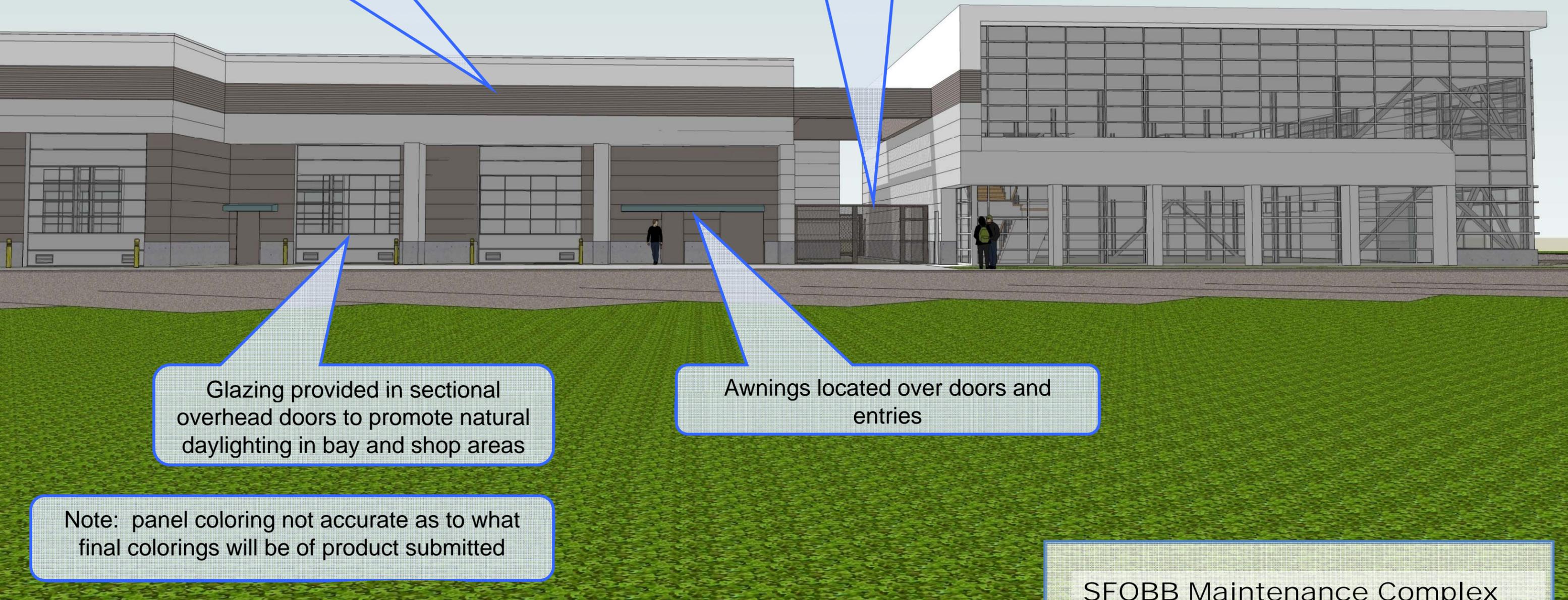
Note: panel coloring not accurate as to what final colorings will be of product submitted

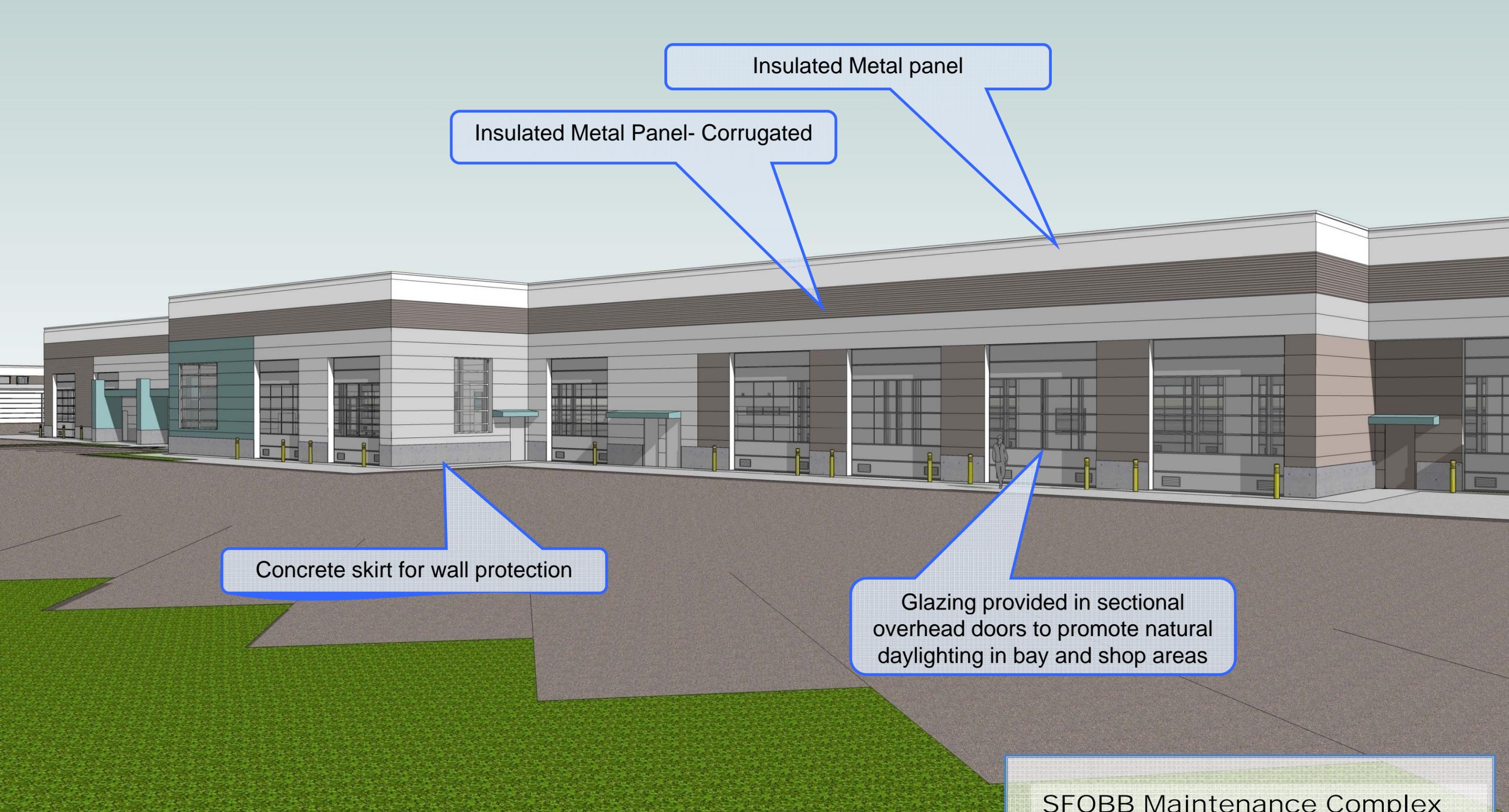
SFOBB Maintenance Complex

Caltrans
Division of Engineering Services
Transportation Architecture Branch 3
(916) 227-8228

North Elevation (Painter's Area)

View of Maintenance Managers and Paint Crew Building





Insulated Metal panel

Insulated Metal Panel- Corrugated

Concrete skirt for wall protection

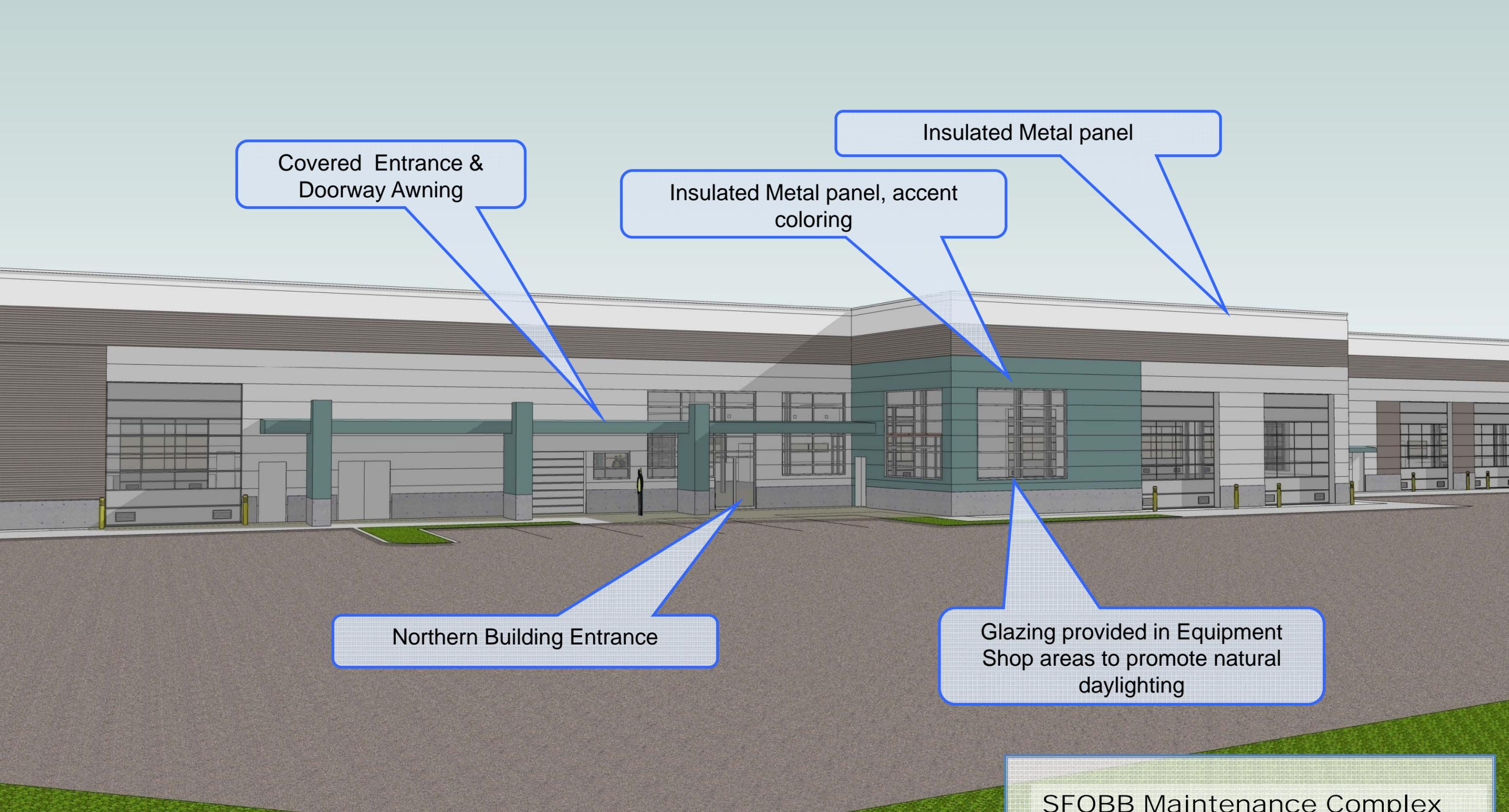
Glazing provided in sectional overhead doors to promote natural daylighting in bay and shop areas

North Elevation (Maintenance & Electrical Shops)

View of Equipment Storage Bays and Shops

SFOBB Maintenance Complex

Caltrans
Division of Engineering Services
Transportation Architecture Branch 3
(916) 227-8228



Covered Entrance & Doorway Awning

Insulated Metal panel

Insulated Metal panel, accent coloring

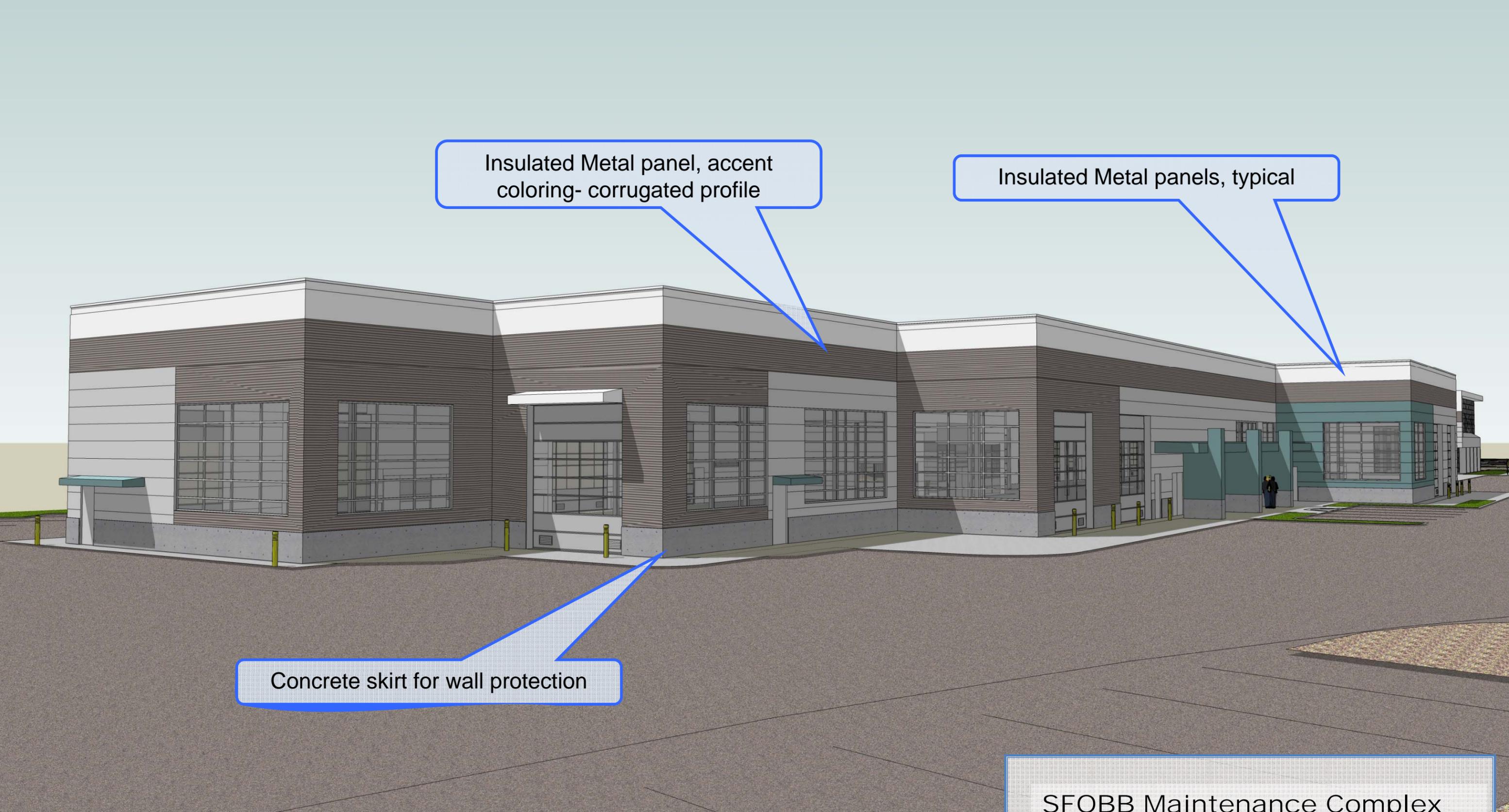
Northern Building Entrance

Glazing provided in Equipment Shop areas to promote natural daylighting

SFOBB Maintenance Complex
Caltrans
Division of Engineering Services
Transportation Architecture Branch 3
(916) 227-8228

North Entrance Elevation (Electrical Shop)

View of Electrical Shop area and Northern Entrance into Building



Insulated Metal panel, accent coloring- corrugated profile

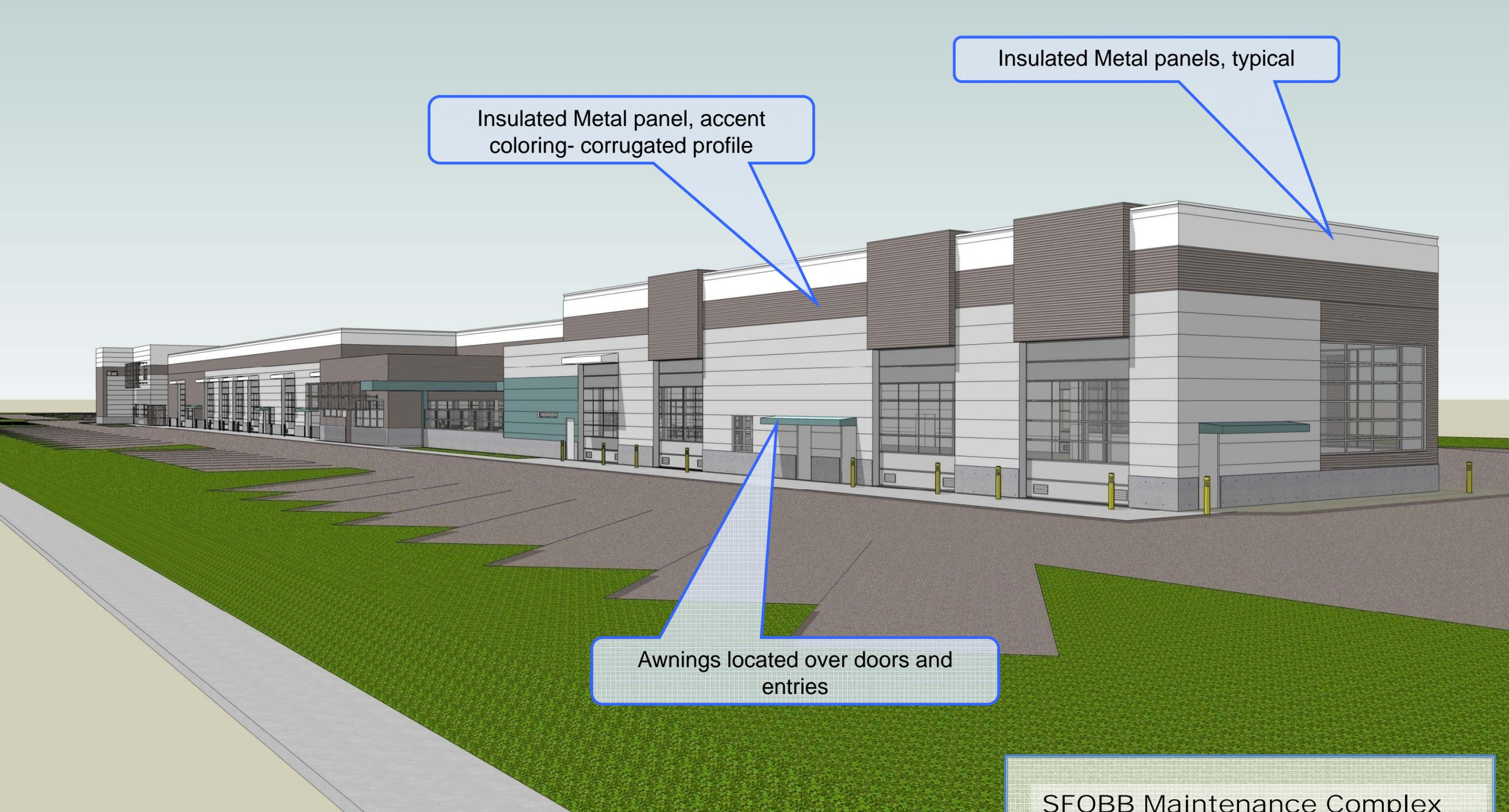
Insulated Metal panels, typical

Concrete skirt for wall protection

SFOBB Maintenance Complex
Caltrans
Division of Engineering Services
Transportation Architecture Branch 3
(916) 227-8228

Northeast view of Vehicle Repair Bays (Sub Shop)

Sub Shop view, note that building is stepped due to adjacent bridge structure



Insulated Metal panel, accent coloring- corrugated profile

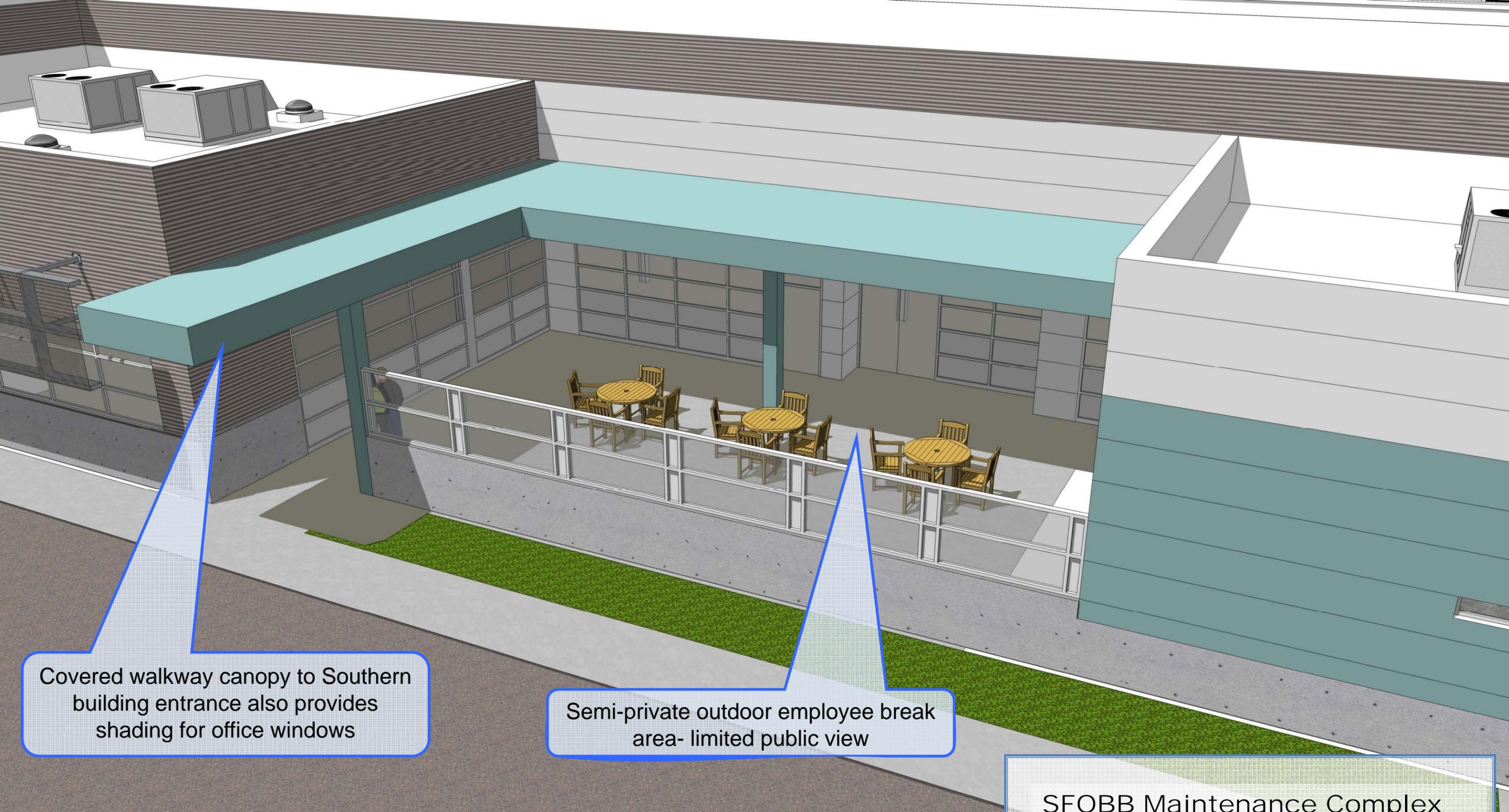
Insulated Metal panels, typical

Awnings located over doors and entries

SFOBB Maintenance Complex
Caltrans
Division of Engineering Services
Transportation Architecture Branch 3
(916) 227-8228

South East Elevation (Shop w/ Maintenance Beyond)

Southern view of Vehicle Repair Shop Area



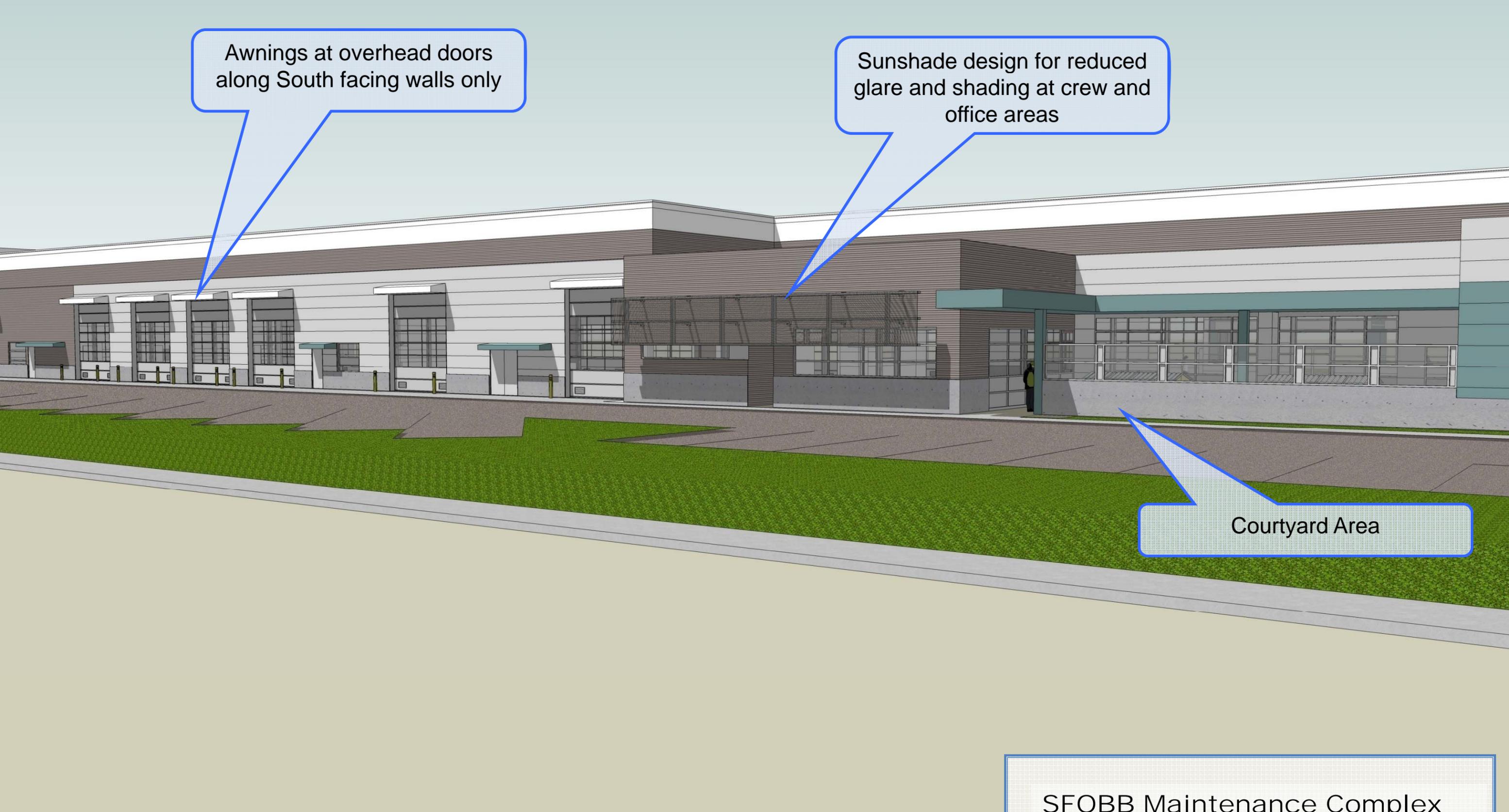
Covered walkway canopy to Southern building entrance also provides shading for office windows

Semi-private outdoor employee break area- limited public view

SFOBB Maintenance Complex
Caltrans
Division of Engineering Services
Transportation Architecture Branch 3
(916) 227-8228

Courtyard View

Courtyard Area, Southern exposure, can be secured at night if needed.



Awnings at overhead doors along South facing walls only

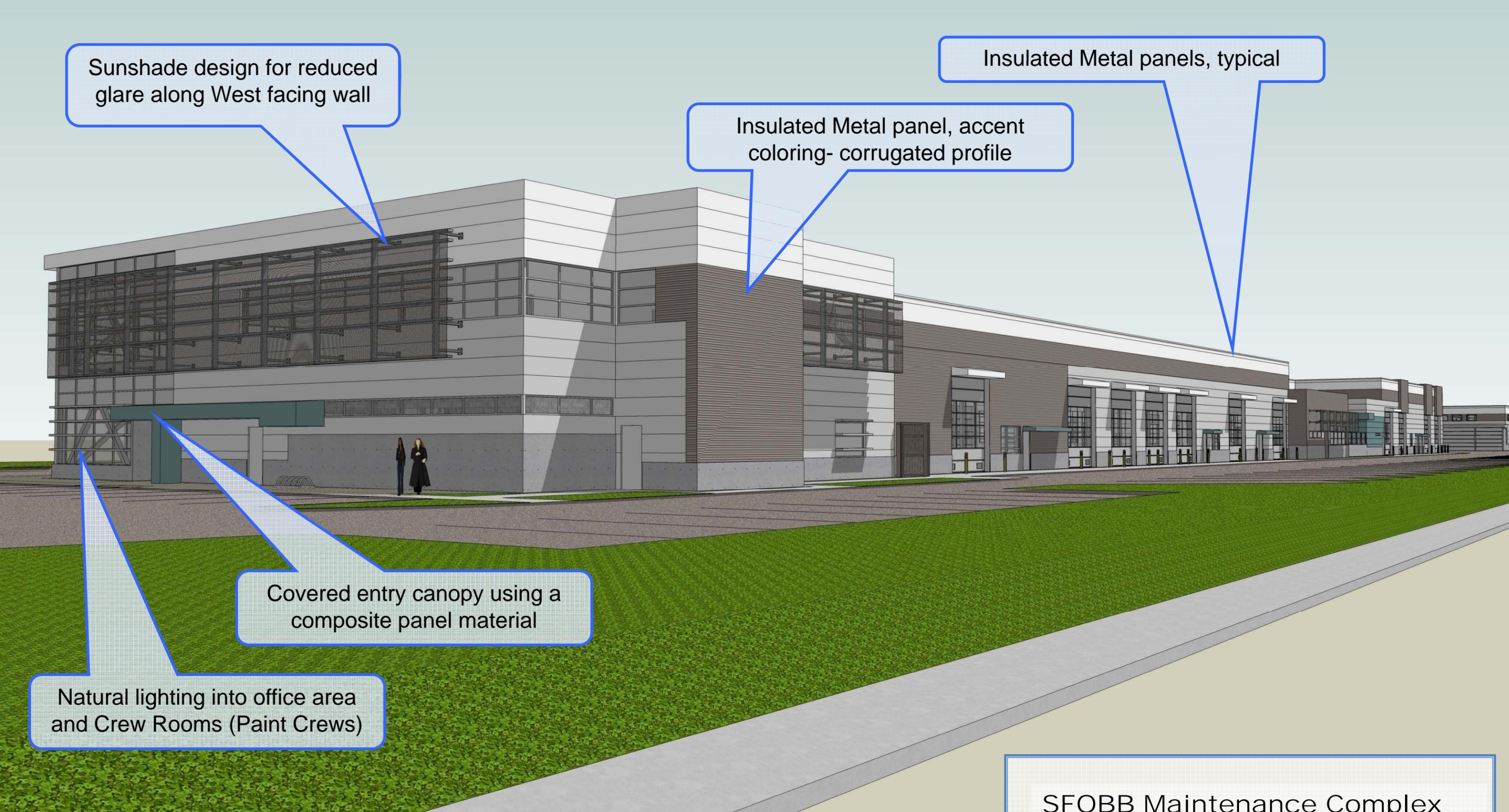
Sunshade design for reduced glare and shading at crew and office areas

Courtyard Area

Southern View (Maintenance Area)

View of Maintenance Area (Crew Rooms, Shops, Equipment Bays, and Secured Storage)

SFOBB Maintenance Complex
Caltrans
Division of Engineering Services
Transportation Architecture Branch 3
(916) 227-8228



Sunshade design for reduced glare along West facing wall

Insulated Metal panels, typical

Insulated Metal panel, accent coloring- corrugated profile

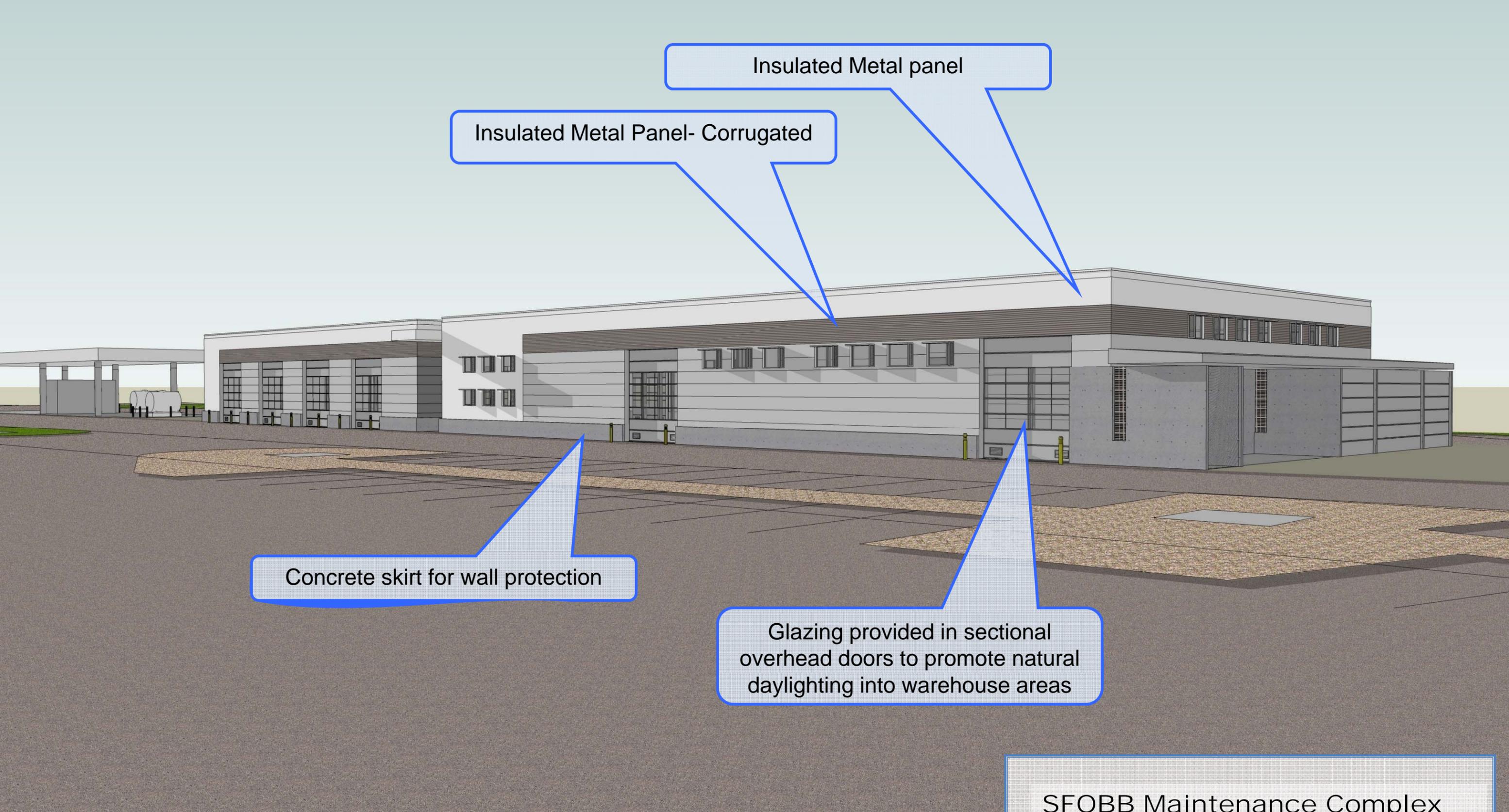
Covered entry canopy using a composite panel material

Natural lighting into office area and Crew Rooms (Paint Crews)

South West Elevation (Painter's & Maintenance)

View of Paint Crew portion of building

SFOBB Maintenance Complex
Caltrans
Division of Engineering Services
Transportation Architecture Branch 3
(916) 227-8228



Insulated Metal panel

Insulated Metal Panel- Corrugated

Concrete skirt for wall protection

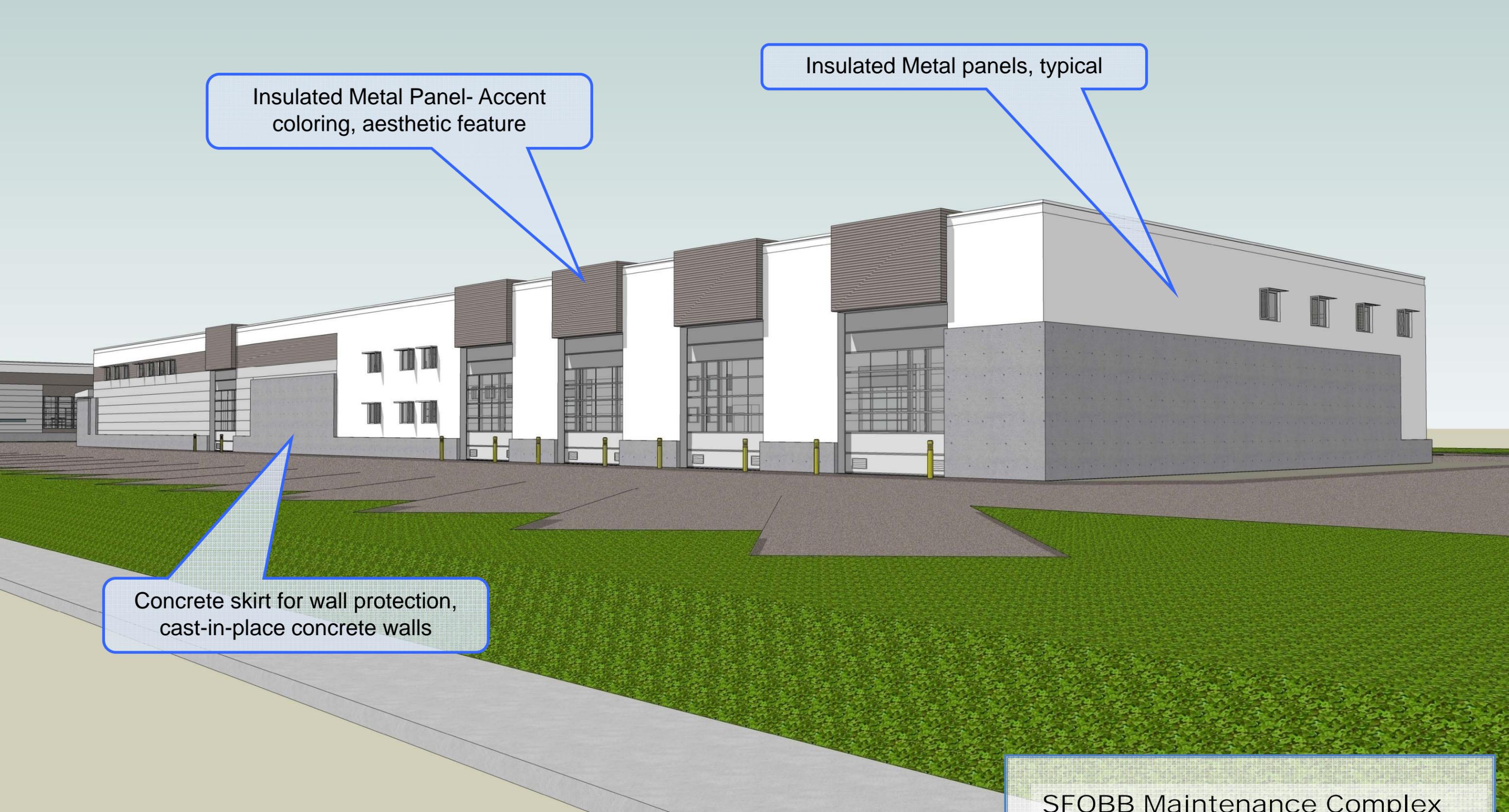
Glazing provided in sectional overhead doors to promote natural daylighting into warehouse areas

SFOBB Maintenance Complex

Caltrans
Division of Engineering Services
Transportation Architecture Branch 3
(916) 227-8228

NE View of Warehouse (Phase 2 Structure)

Warehouse View, proposed concept



Insulated Metal Panel- Accent coloring, aesthetic feature

Insulated Metal panels, typical

Concrete skirt for wall protection, cast-in-place concrete walls

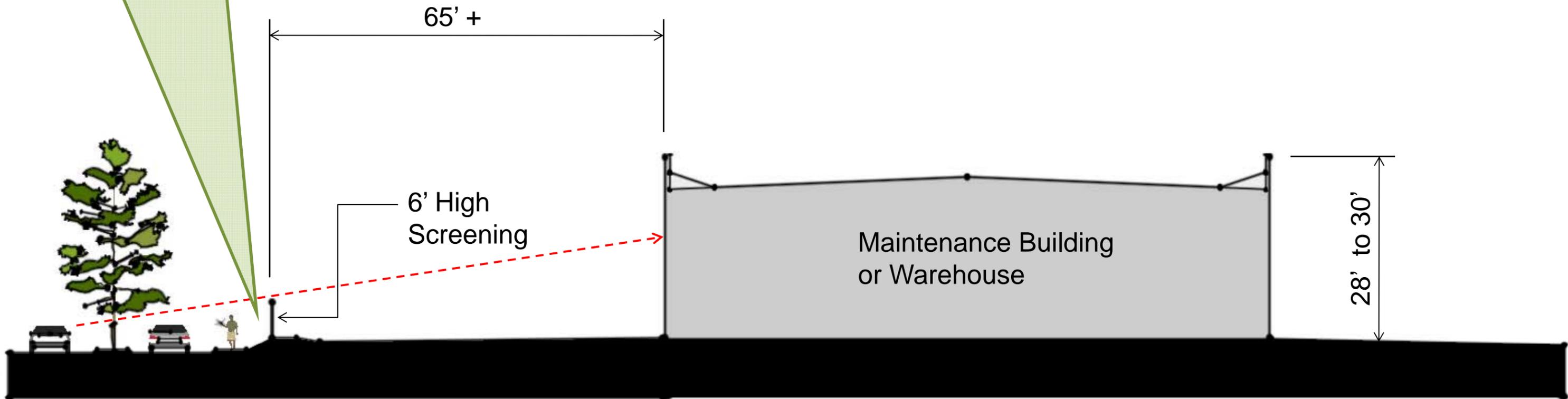
SFOBB Maintenance Complex
Caltrans
Division of Engineering Services
Transportation Architecture Branch 3
(916) 227-8228

SW View of Warehouse (Phase 2 Structure)

Warehouse View, proposed concept

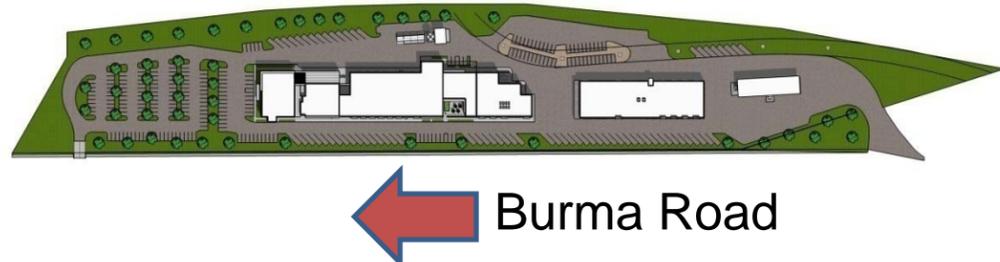
Sight distances and views into site along Burma Road

Original Design intent was to provide landscaping, dense at some locations, to act as the screening between the public traveling along Burma Road and the Maintenance Complex

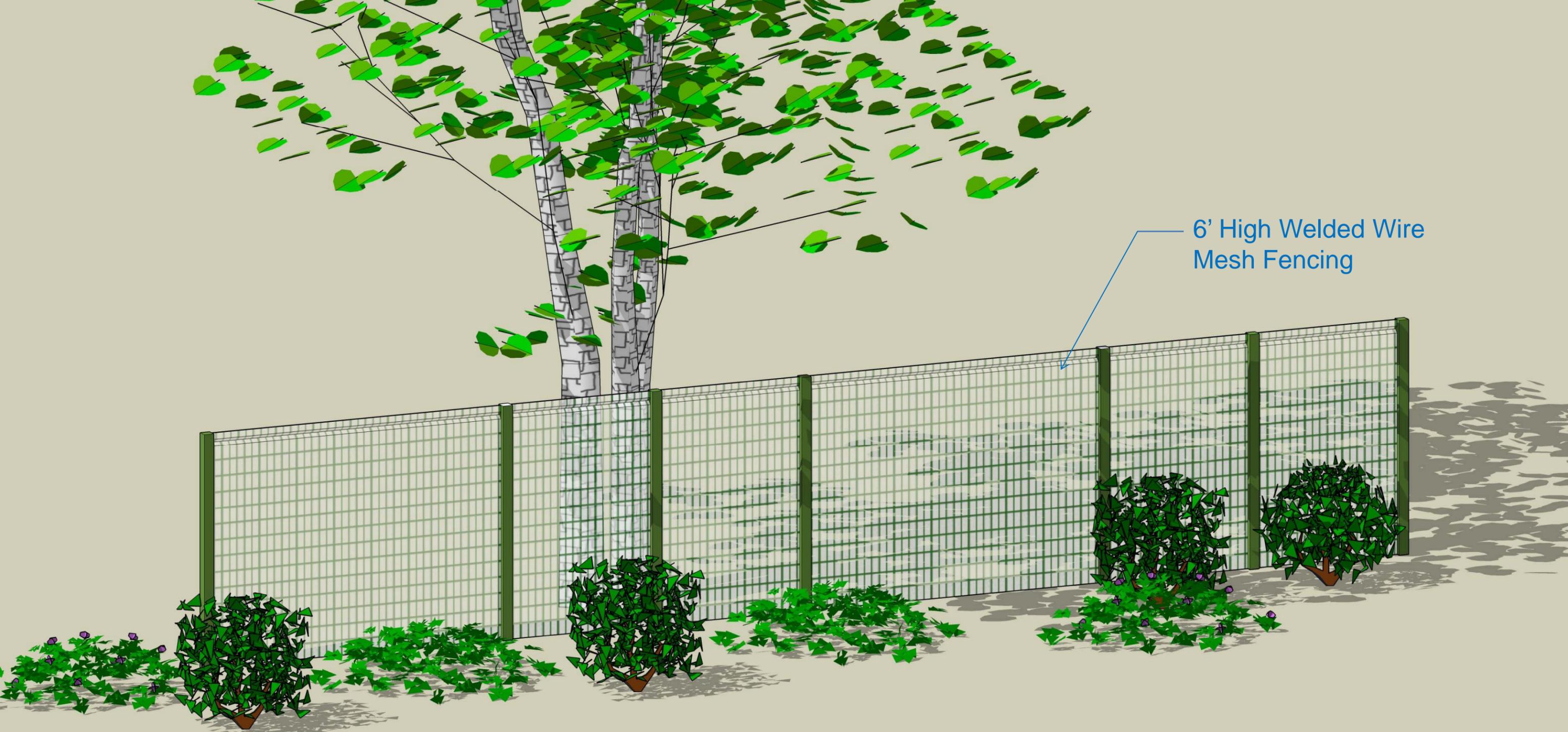


Site Section Along Burma Road

Issue will be with EBMUD Easement and how much landscaping will allowed within the easement



SFOBB Maintenance Complex
Caltrans
Division of Engineering Services
Transportation Architecture Branch 3
(916) 227-8228



6' High Welded Wire Mesh Fencing

Fencing would be placed 2.5' within the EBMUD Easement where the outfall pipe occurs

Concept 3- No Horizontal Top Rail Fence Study Along Burma Road

Fencing design concept was to match fencing along South side of freeway located above concrete barrier near transit stop and sub stations

SFOBB Maintenance Complex
Caltrans
Division of Engineering Services
Transportation Architecture Branch 3
(916) 227-8228

LEED

LEED Point Summary

Areas/Status of Points	Anticipated
Sustainable Site (SS)	17
Water Efficiency (WE)	10
Energy & Atmosphere (EA)	35
Materials & Resources (MR)	7
Indoor Environmental Quality (IEQ)	15
Innovation & Design Process (ID)	6
Regional Priority Credits (RPC) Zip Code 9407	4
<i>TOTAL POINTS</i>	<i>96</i>

Although LEED Platinum was initially studied (80+ points), ultimately it came down to the fact that a Caltrans project most likely will not obtain all needed sustainable site credits to achieve platinum.

Construction Notes

By Amer

***Amer: Insert Proposed Construction Schedule
& Schedule highlights***



Questions?

Comments?