

# TREASURE ISLAND

## WATER RESOURCE RECOVERY FACILITY

SFAC - CIVIC DESIGN REVIEW  
PHASE 2 - DESIGN DEVELOPMENT

STANTEC | MERRILL MORRIS PARTNERS LANDSCAPE ARCHITECTURE | PCL CONSTRUCTION



San Francisco  
**Water Power Sewer**  
Services of the San Francisco Public Utilities Commission

DECEMBER 11, 2023

TREASURE ISLAND - WATER RESOURCE RECOVERY FACILITY

SFAC - CIVIC DESIGN REVIEW - PHASE 2 DESIGN DEVELOPMENT

# AGENDA

- INTRODUCTION - PROJECT REVIEW AND UPDATE
- PHASE 1 SCHEMATIC DESIGN REVIEW COMMENTS
- ARCHITECTURAL DESIGN
- LANDSCAPE ARCHITECTURAL DESIGN
- PERIMETER SECURITY ENCLOSURE
- MONUMENT SIGNAGE AND GRAPHICS

# PROJECT TEAM

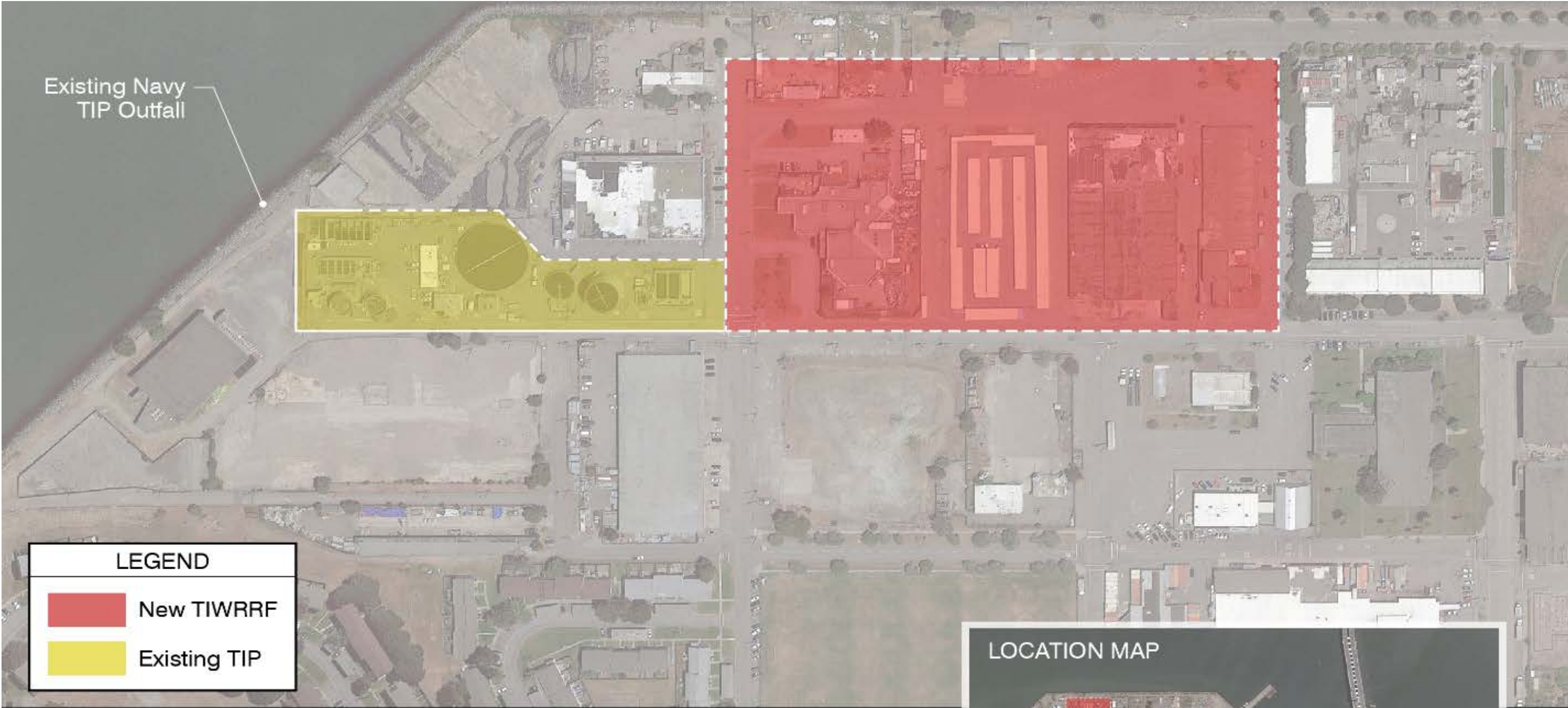
- Project Manager - Jignesh Desai, SFPUC
- Project Engineer - Calvin Huey, SFPUC
- SFPUC Wastewater Enterprise Liaison - Nohemy Revilla, SFPUC
- Design Consultant - Barb Berastegui, Stantec
- Lead Architect - Elizabeth Navarro, Stantec
- Landscape Project Manager - Jamie Beckman, Merrill Morris Partners

# TREASURE ISLAND BACKGROUND

- Naval Station Treasure Island (NSTI) is a former US Navy base located in the City and County of San Francisco
- Treasure Island Development Authority (TIDA) is responsible for the reuse and development of NSTI and operation and maintenance of all utilities on Treasure Island and Yerba Buena Island (TI/YBI)
- SFPUC provides contracted services to TIDA for O&M of all utilities on TI/YBI through a yearly MOU
- Developer is obligated to construct and fund the new infrastructure for TI/YBI



# NEW TI WATER RESOURCE RECOVERY FACILITY LOCATION



# PROJECT OBJECTIVES

- Address aging infrastructure
- Ensure regulatory compliance
- Meet the wastewater and recycled water needs of the future TI/YBI development



# CIVIC DESIGN REVIEW COMMENTS

## PHASE 1 SCHEMATIC DESIGN (7.20.2020)

(07/20/2020)

\* <https://sfgov.org/arts/node/10244>

The Commissioners commended the project team for revisiting the Civic Design Review Committee's comments from the team's Conceptual Phase presentation. The Commissioners wondered how the equipment will fare in the site's extreme marine context. They also asked the team to consider the site's edging to cue outsiders that there is an edge to the park so that vehicles do not drive over it. The Commissioners would also like the team to consider the water-heavy environment for the project's planting plan.

(01/13/2020)

\* <https://sfgov.org/arts/node/10190>

The Committee expressed their concerns regarding the campus's overall lack of continuity with the rest of the proposed Treasure Island master plan, both in layout and materiality. Other Treasure Island structures lie along the diagonal urban blueprint of the Island, while this treatment plant would disrupt the diagonal. The Committee insisted that the team revisit the campus's point of view, and that they ask themselves, "What will make this Treasure Island?" They also asked the project team to consider small creatures when building fencing around the structures. The Committee was very content with the progressive environmental aspects as well as the aesthetics and possibility for community engagement of the proposed wetlands.



TI WRRF - PREVIOUS FACILITY LAYOUT

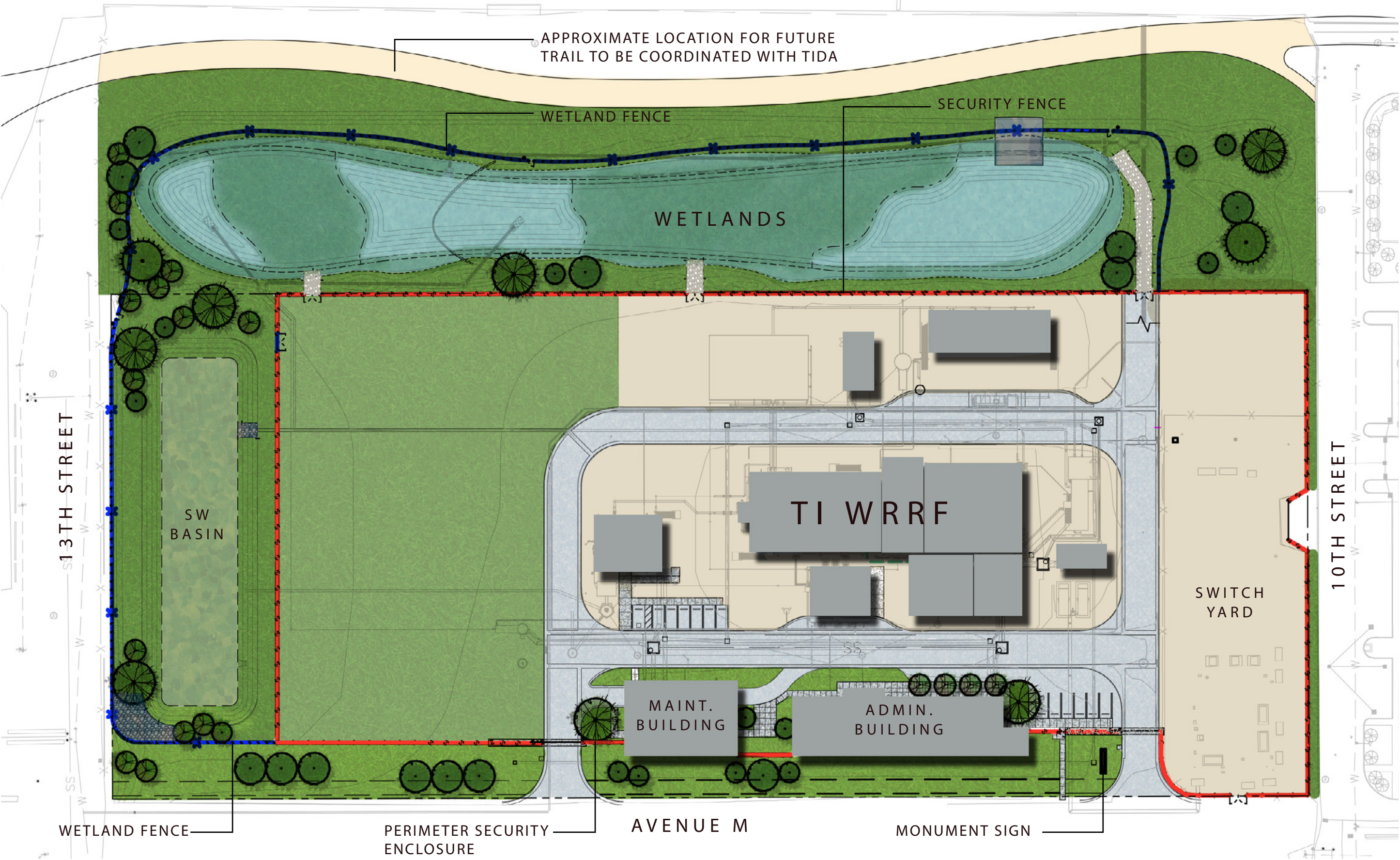




PREVIOUS ADMINISTRATION AND MAINTENANCE BUILDINGS - WEST ELEVATION - MATERIAL COHESION

ADMINISTRATION BUILDING FACADE - PLAIN CONCRETE FINISH  
PERIMETER SECURITY ENCLOSURE - GREY COLOR  
MAINTENANCE BUILDING FACADE -  
PLAIN CONCRETE FINISH





On October 04, our team met with the Arts Commission for an informal work session based on previous comments regarding the state of the design as presented on August 21, 2023.

We listened, took notes and have come back to present our revised concept. Our formal meeting is set for December 11, 2023

We developed the architecture and landscape concept in tandem - understanding that one does not exist without the other, they will work in concert to enhance and support the fundamental redevelopment of this place.

The core building concept remains as **A MACHINE IN THE PARK**

The existence of a flourishing natural environment on this island is dependant on the function these buildings provide. We identified three primary points by which our building will support this part. Our building will be:

BOLD - an embodiment of the landscapes dependency of their function

SIMPLE - uncomplicated and elegant detailing, straightforward approach to materiality

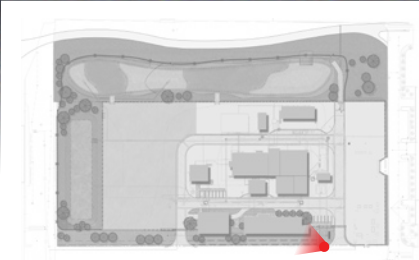
BEAUTIFUL - the building needs to stand alone as a jewel within the landscape with or without the art enrichment

REVISED BUILDING DESIGN CONCEPT

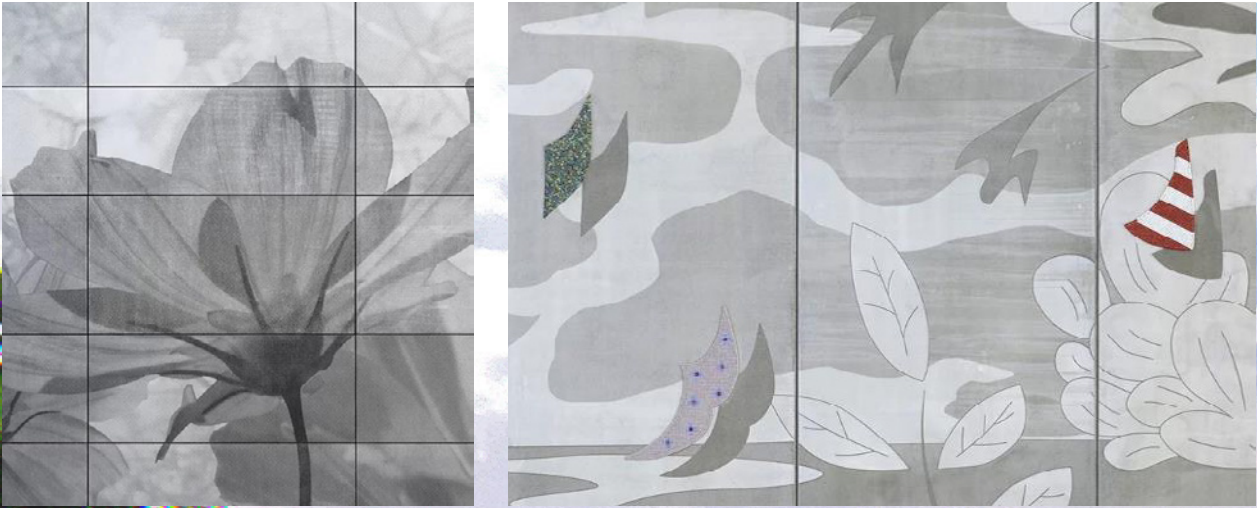


The vertical glazed elements protrude from the face of the concrete and serve as pillars of reflection. During the day, you don't see into the building but rather, you see all of the thriving 'wild' elements around you. Blending the landscape and the sky.

A thin knife edge parapet cap serves to terminate the top of the buildings and frame the concrete panels.



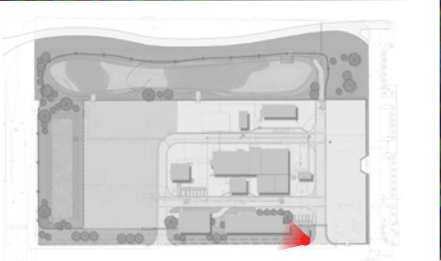
REVISED BUILDING DESIGN CONCEPT



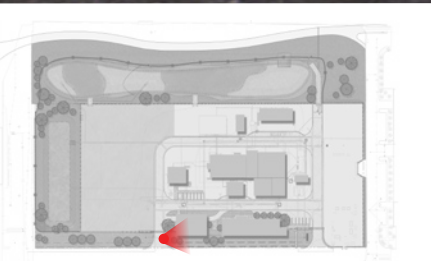
graphic concrete examples - 2 dimensional print/pattern



Shaded BLUE regions represent **Art Enrichment Opportunity**  
Graphic concrete or concrete formliner on each concrete panel.



concrete formliner examples - 3 dimensional relief patterns

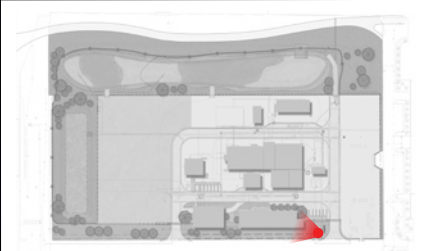




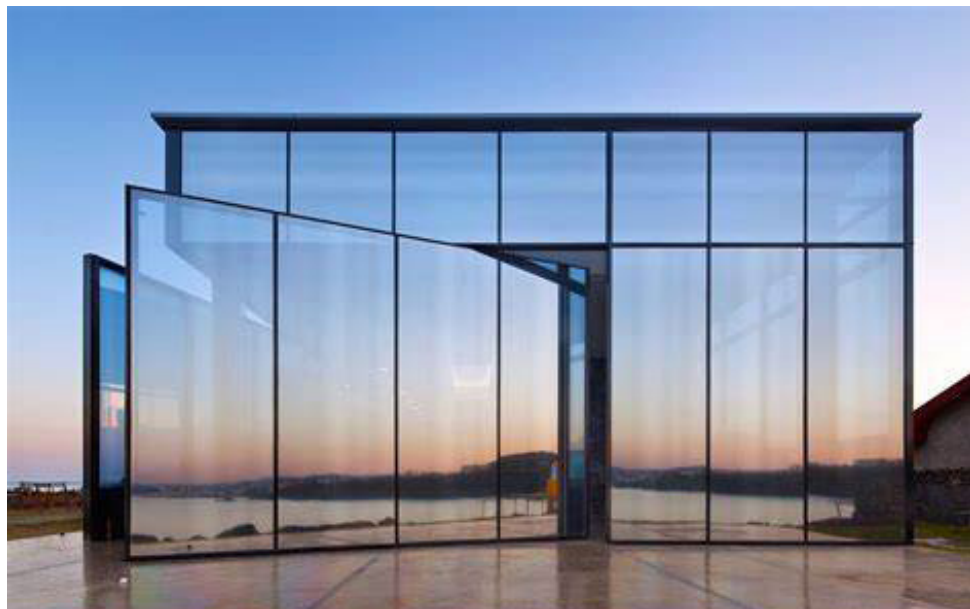
Openings in the cast in place concrete expose interior spaces. The windows align with occupied spaces.

The buildings visually present a different aesthetic at nighttime versus daytime. The transition between day / night speaks to the transition from the reflection of the landscape to a glimpse into the facility interior.

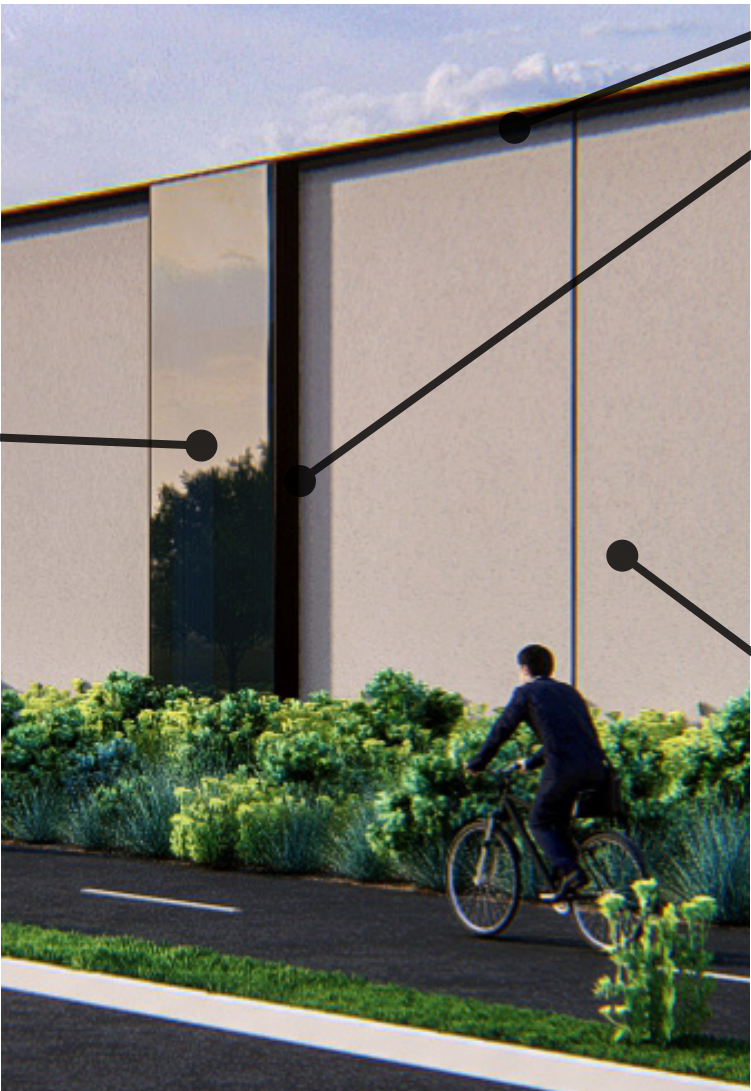
Lighting will be an important component in the final design.



REVISED BUILDING DESIGN CONCEPT MATERIALS



REFLECTIVE GLAZING



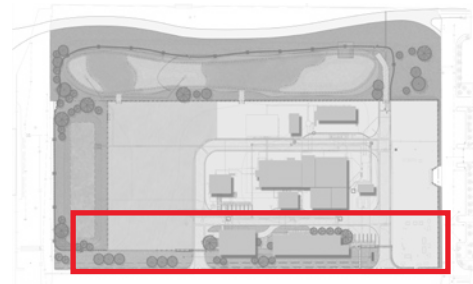
PARAPET CAP



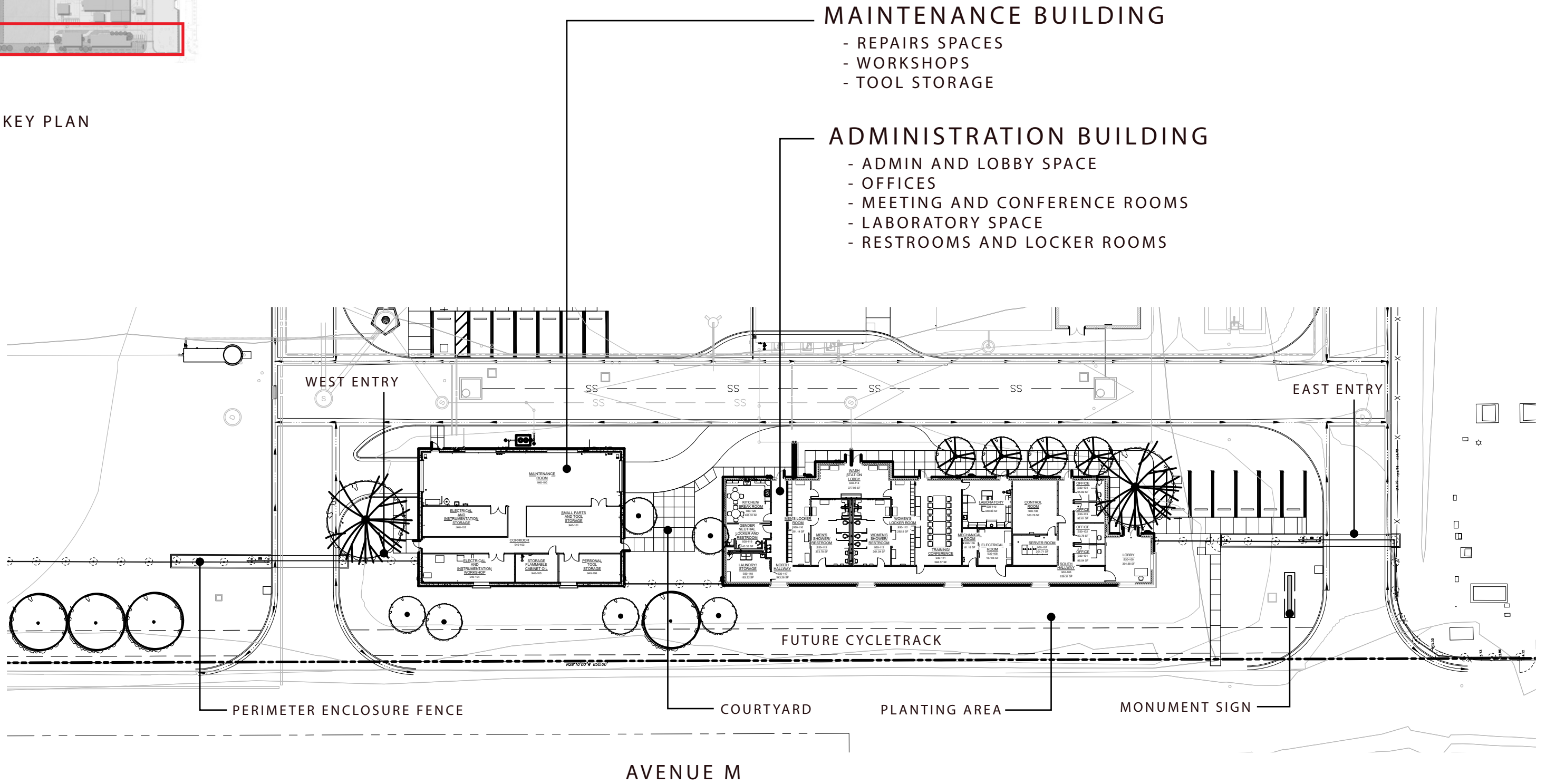
SMOOTH CONCRETE



# ADMINISTRATION AND MAINTENANCE BUILDINGS - SITE PLAN



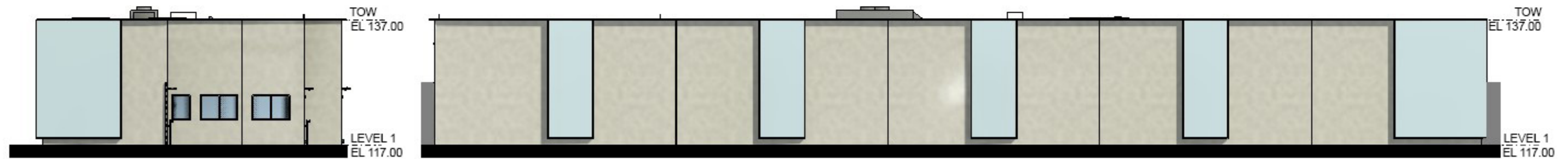
SITE KEY PLAN





NORTH ELEVATION  
1/8" = 1'-0"

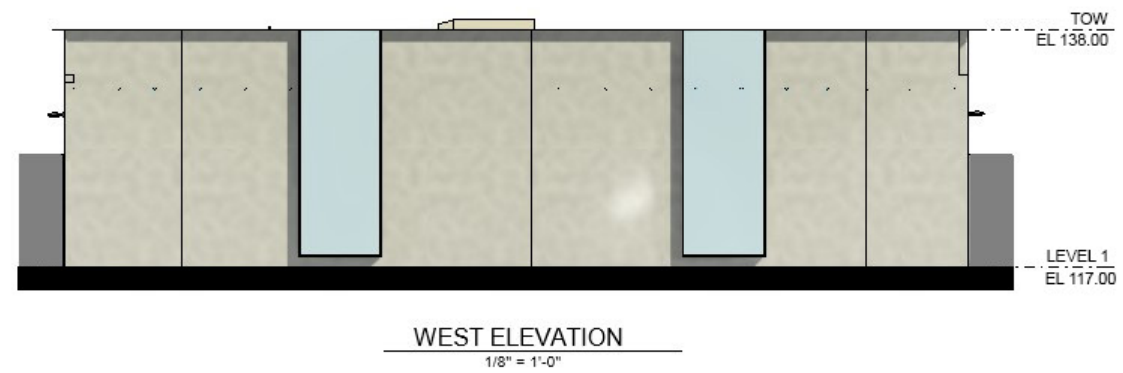
EAST ELEVATION  
1/8" = 1'-0"



SOUTH ELEVATION  
1/8" = 1'-0"

WEST ELEVATION  
1/8" = 1'-0"

ADMINISTRATION BUILDING

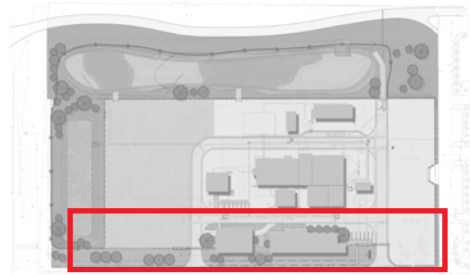


MAINTENANCE BUILDING

ADMINISTRATION AND MAINTENANCE BUILDINGS - WEST ELEVATION - MATERIAL COHESION



# ADMINISTRATION AND MAINTENANCE BUILDINGS - WEST AND EAST GATE PLANTING PLAN



SITE KEY PLAN

**PLANTS**  
ALL PLANTS ARE NATIVE OR ADAPTED TO THE REGION AND LOW WATER USE. PLANTS HAVE BEEN SELECTED THAT WILL THRIVE IN SHADE AND SUN BASED ON EXPOSURE.

**IRRIGATION**  
AN AUTOMATIC IRRIGATION SYSTEM WILL BE PROVIDED FOR ALL PLANTED AREAS UTILIZING A SMART ET WEATHER BASED CONTROLLER AND SUBSURFACE IN-LINE DRIP-EMITTER TUBING. THE IRRIGATION SYSTEM WILL BE CONNECTED TO THE APPROPRIATE DOMESTIC WATER LINE AND WILL INCLUDE A BACKFLOW PREVENTION DEVICE. USE ROTARY IRRIGATION AT BOTTOM OF BASIN.



*Artemisia californica*  
California Sagebrush



*Baccharis pilularis v. consanguineum*



*Camissonia cheiranthifolia*  
Beach Evening Primrose



*Castilleja affinis*  
Indian Paintbrush



*Ceanothus thyrsiflorus*  
Blue Blossom



*Ericameria ericoides*  
Mock Heather



*Eriogonum latifolium*  
Seaside Buckwheat



*Eriophyllum lanatum*  
Common Woolly Sunflower



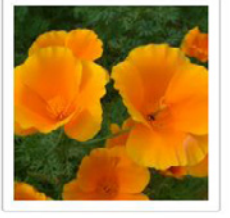
*Mimulus aurantiacus*  
Sticky Monkey Flower



*Bromus carinatus*  
Brome Grass



*Deschampsia elongata*  
Slender hairgrass



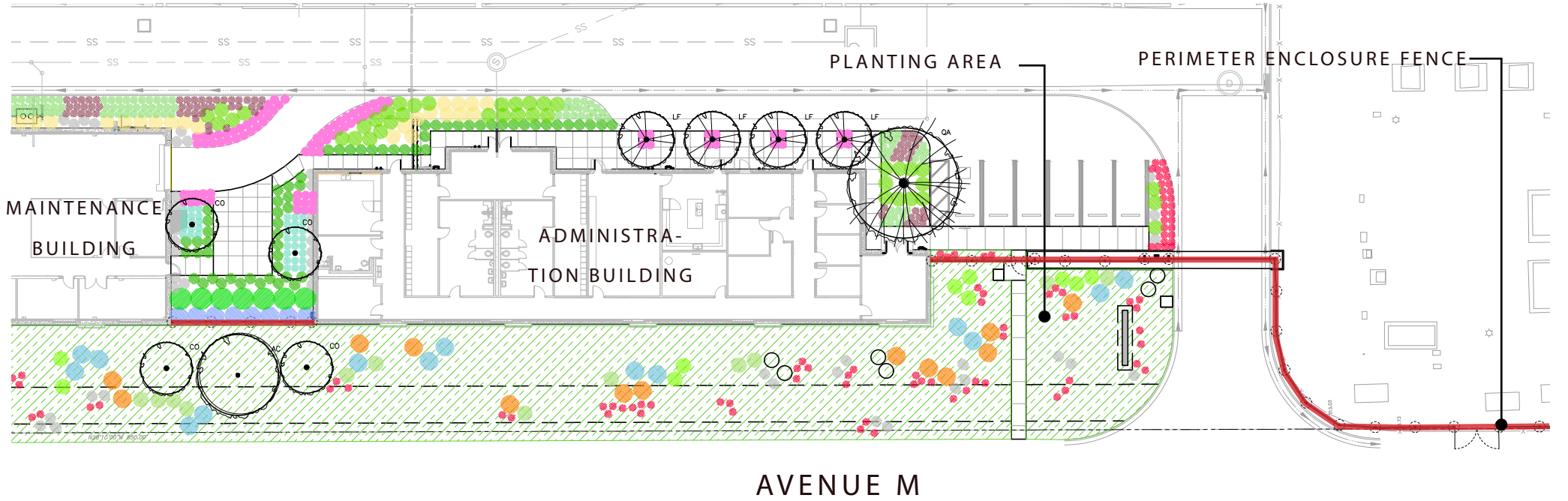
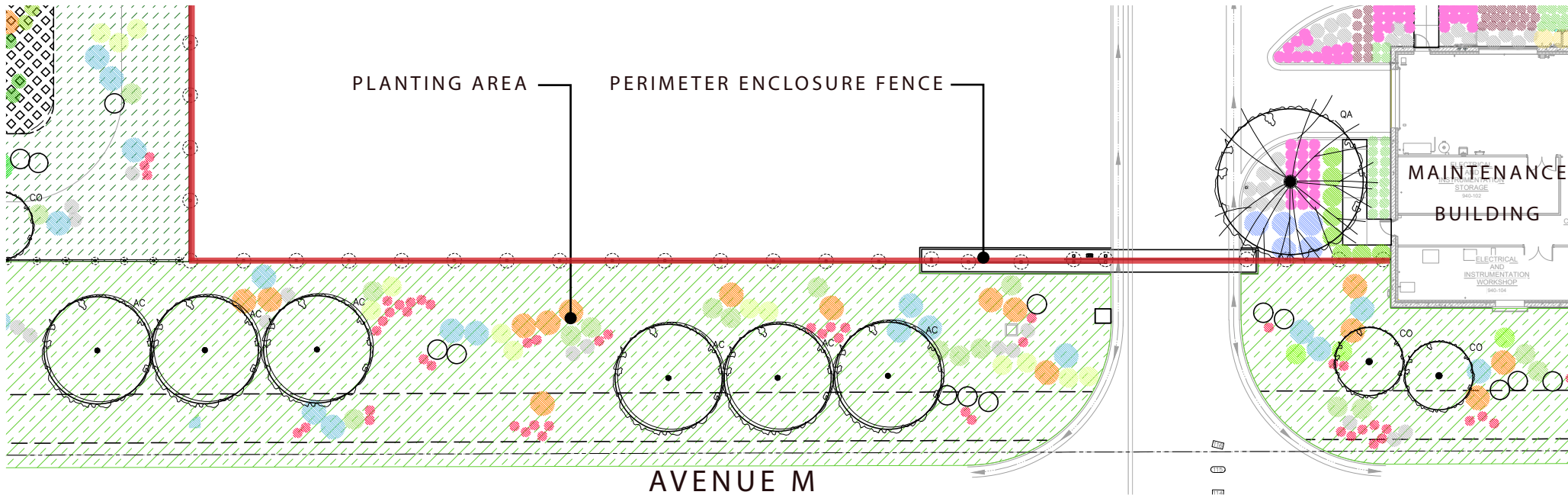
*Eschscholzia californica*  
California Poppy



*Festuca idahoensis*  
Idaho Fescue



*Lupinus nanus*  
Sky Lupine



# PLANT PALETTE - COASTAL SCRUB



*Acheille millefolium*  
Common Yarrow



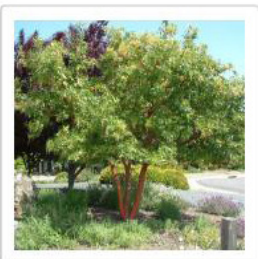
*Artemisia californica*  
California Sagebrush



*Baccharis pilularis v. consanguineum*  
Tall Coyote Brush



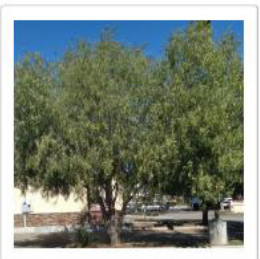
*Camissonia cheiranthifolia*  
Beach Evening Primrose



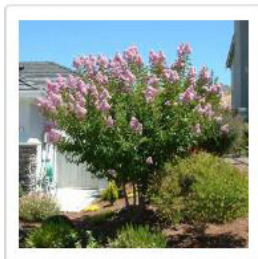
*Arbutus 'Marina'*  
Marina Strawberry Tree



*Cercis occidentalis*  
Western Redbud



*Geijera parviflora*  
Australian Willow



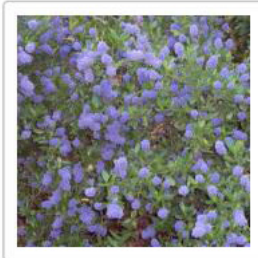
*Lagerstroemia indica*  
Crape Myrtle



*Lagerstroemia indica 'Acoma'*  
Acoma Crape Myrtle



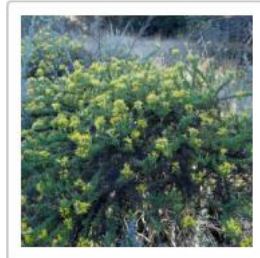
*Castilleja affinis*  
Indian Paintbrush



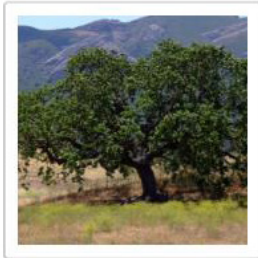
*Ceanothus thyrsiflorus*  
Blue Blossum



*Distichlis spicata var. stricta*  
Great Basis Salt Grass



*Ericameria ericoides*  
Mock Heather



*Quercus agrifolia*  
Coast Live Oak



*Quercus ilex*  
Holly Oak



*Quercus suber*  
Cork Oak



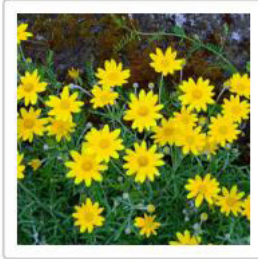
*Quercus wislizenii*  
Interior Live Oak



*Tristaniopsis laurina 'Elegant'*  
Elegant Water Gum



*Eriogonum latifolium*  
Seaside Buckwheat



*Eriophyllum lanatum*  
Common Woolly Sunflower



*Frangula californica*  
California Coffeeberry



*Grindelia hirsutula*  
Hairy Gumweed



*Heteromeles arbutifolia*  
Toyon



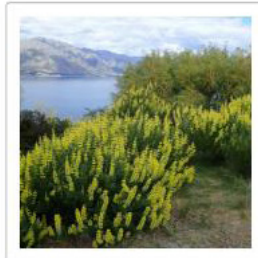
*Leymus arenarius 'Glaucus'*  
Blue Wild Rye



*Leymus triticoides*  
Creeping Wild Rye



*Lupinus arboreus 'Coastal Lavender'*  
Tree Lupine



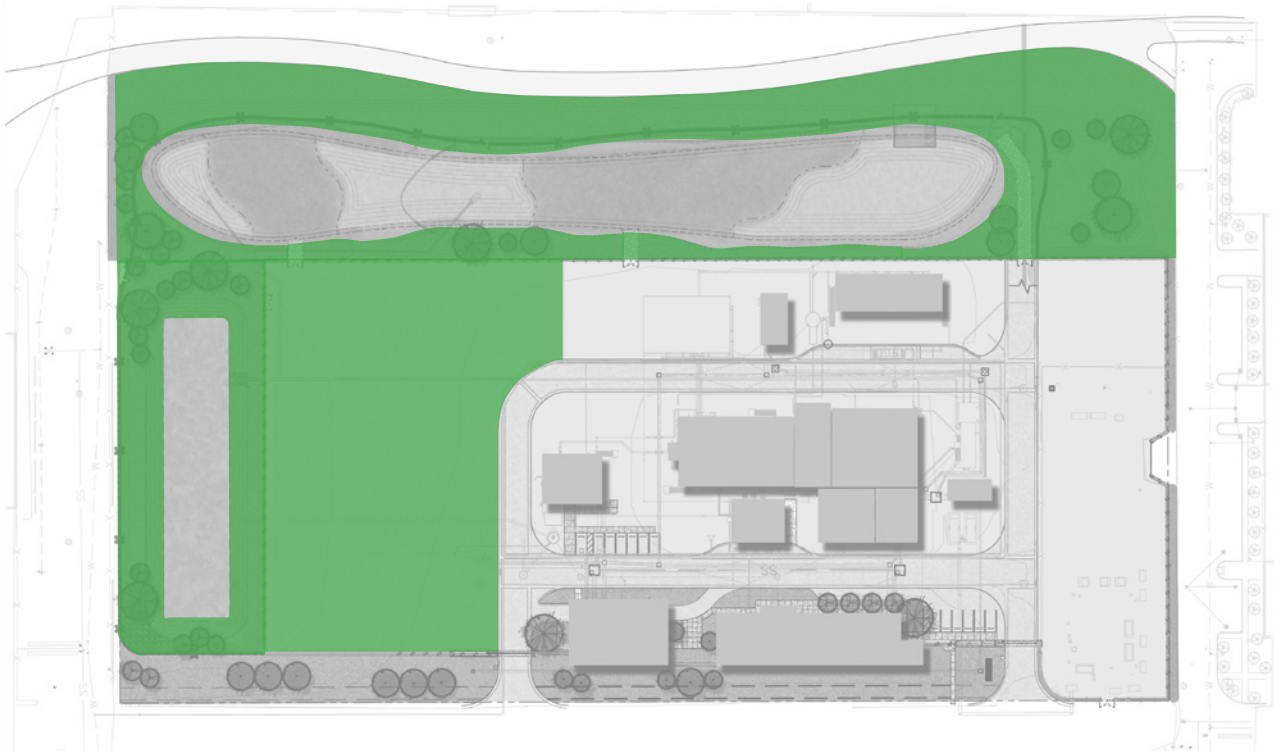
*Lupinus arboreus 'Coastal Yellow'*  
Coastal Yellow Tree Lupine



*Mimulus aurantiacus*  
Sticky Monkey Flower



*Myrica californica*  
Pacific Wax Myrtle



PLANTING ZONE KEY PLAN

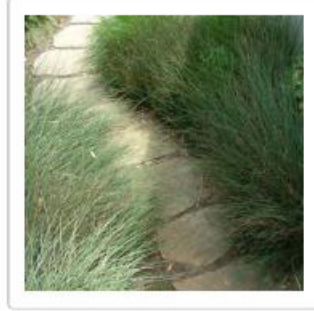
# PLANT PALETTE - DETENTION BASIN



*Achillea millefolium*  
Common Yarrow



*Carex tumulicola*  
Berkeley Sedge



*Juncus patens*  
California Gray Rush



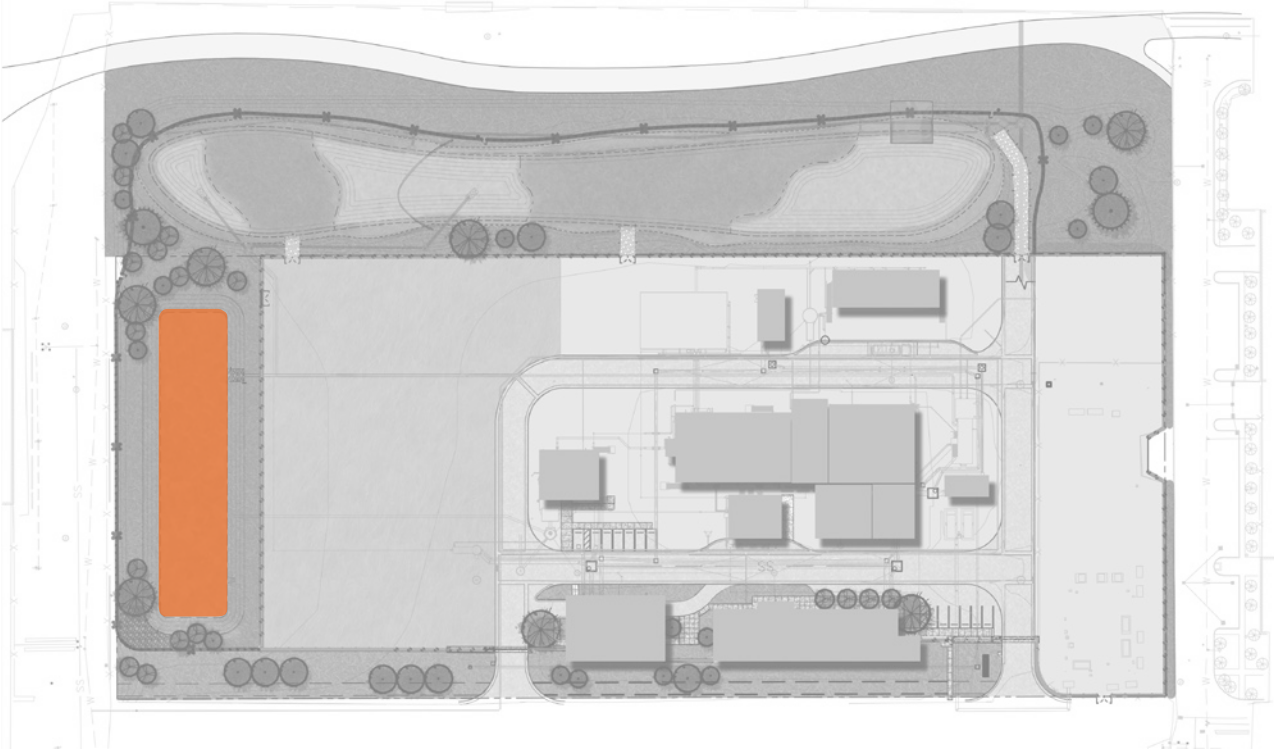
*Laurus nobilis 'Saratoga'*  
Saratoga Sweet Bay



*Leymus arenarius 'Glaucus'*  
Blue Wild Rye



*Mimulus aurantiacus*  
Sticky Monkey Flower



PLANTING ZONE KEY PLAN

PLANT PALETTE - AVE M



*Artemisia californica*  
California Sagebrush



*Baccharis pilularis v. consanguineum*



*Camissonia cheiranthifolia*  
Beach Evening Primrose



*Castilleja affinis*  
Indian Paintbrush



*Ceanothus thyrsiflorus*  
Blue Blossum



*Ericameria ericoides*  
Mock Heather



*Eriogonum latifolium*  
Seaside Buckwheat



*Eriophyllum lanatum*  
Common Woolly Sunflower



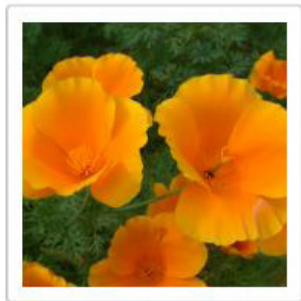
*Mimulus aurantiacus*  
Sticky Monkey Flower



*Bromus carinatus*  
Brome Grass



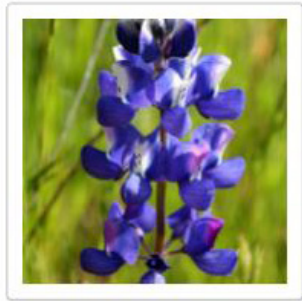
*Deschampsia elongata*  
Slender hairgrass



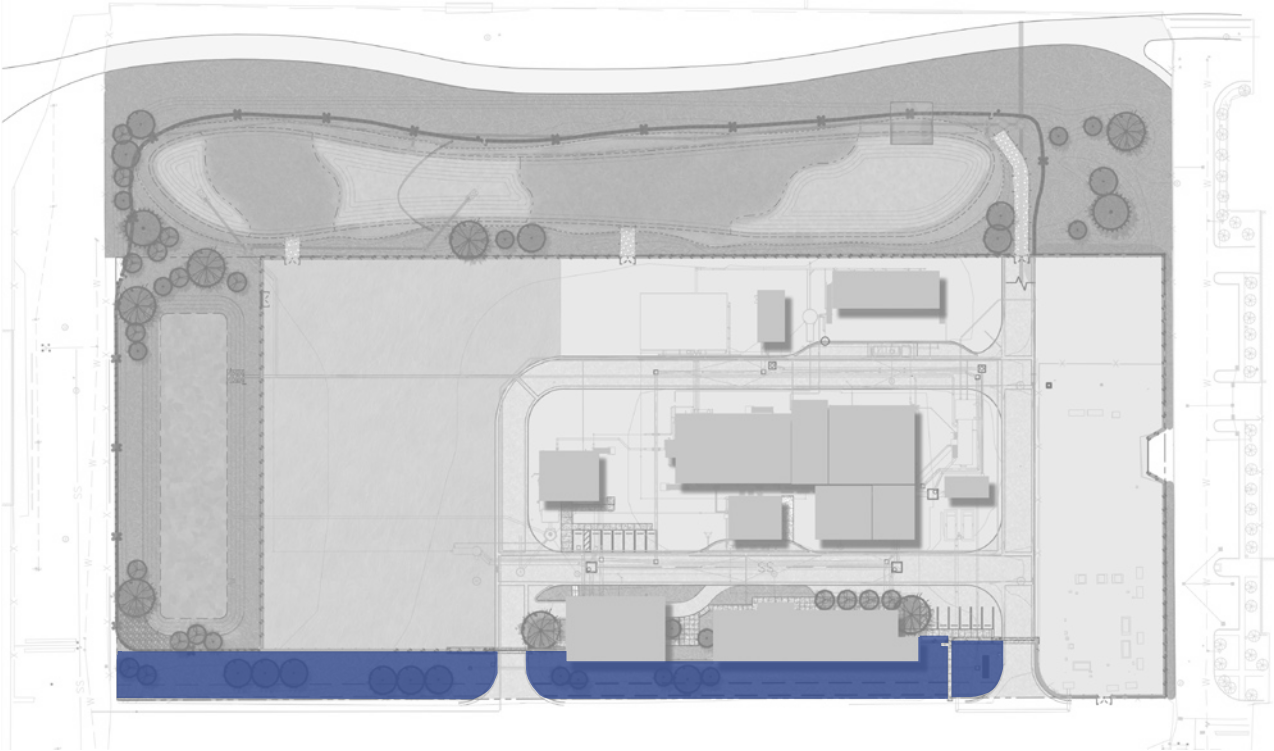
*Eschscholzia californica*  
California Poppy



*Festuca idahoensis*  
Idaho Fescue



*Lupinus nanus*  
Sky Lupine



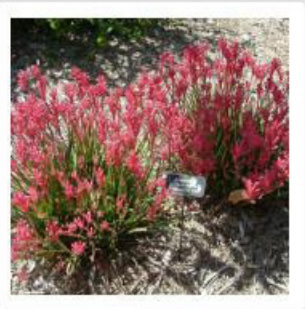
PLANTING ZONE KEY PLAN



PLANT PALETTE - ADMINISTRATION / MAINTENANCE BUILDING PLANTING



*Andromeda polifolia 'Blue Ice'*  
Blue Ice Bog Rosemary



*Anigozanthos flavidus 'Bush Pearl'*  
Bush Pearl Kangaroo Paws



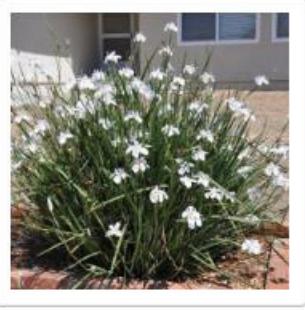
*Asparagus densiflorus 'Myers'*  
Myers Asparagus



*Carex tumulicola*  
Berkeley Sedge



*Cercis occidentalis*  
Western Redbud



*Dietes iridioides*  
African Iris



*Eriobotrya deflexa*  
Bronze Loquat



*Festuca glauca*  
Blue Fescue, Blue Fescue Grass



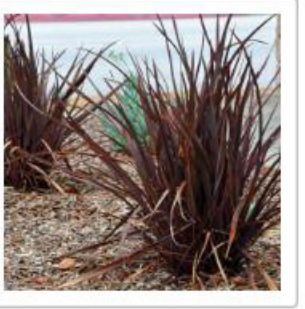
*Leonotis leonurus*  
Lion's Tail



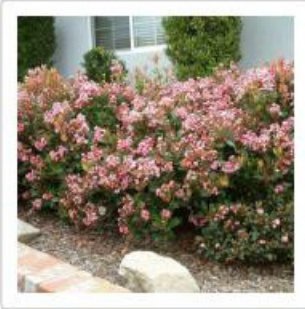
*Lomandra confertifolia*  
Mat Rush



*Olea europaea 'Swan Hill'*  
Swan Hill Olives® Tree



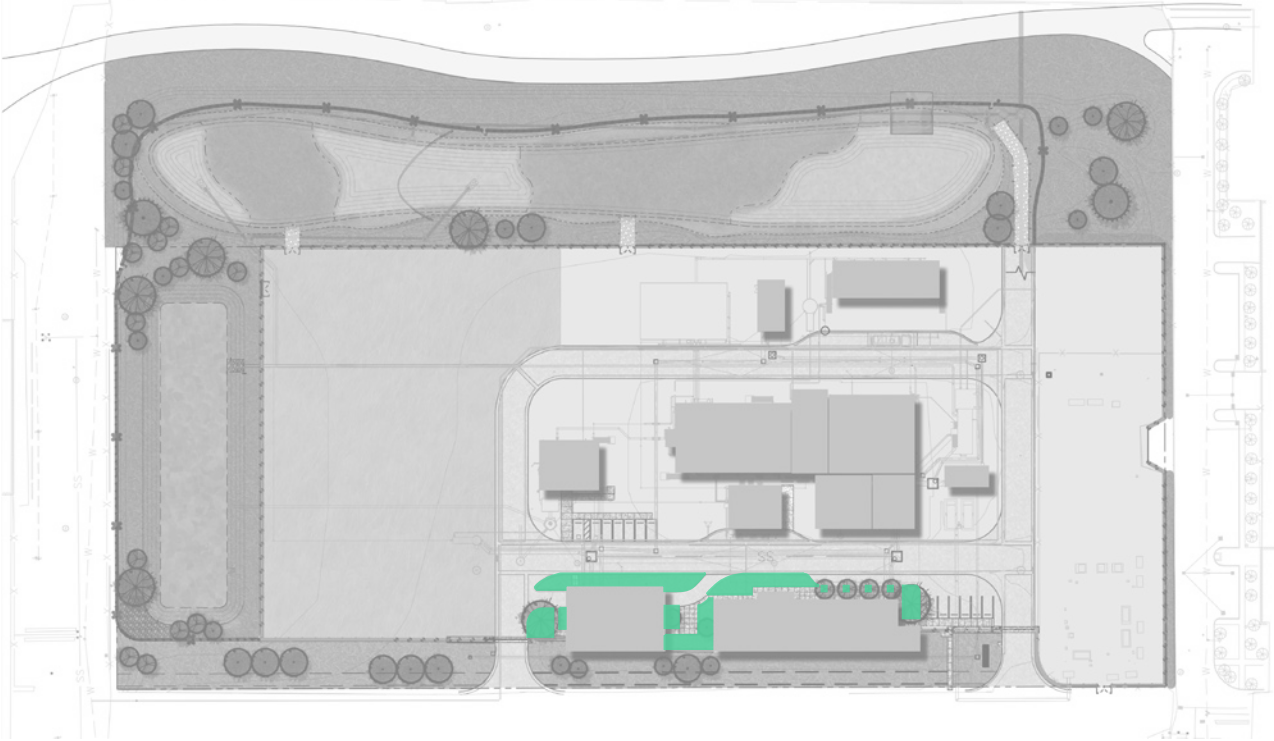
*Phormium 'Amazing Red'*  
Amazing Red N.Z. Flax



*Raphiolepis indica 'Springtime'*  
Springtime Indian Hawthorn



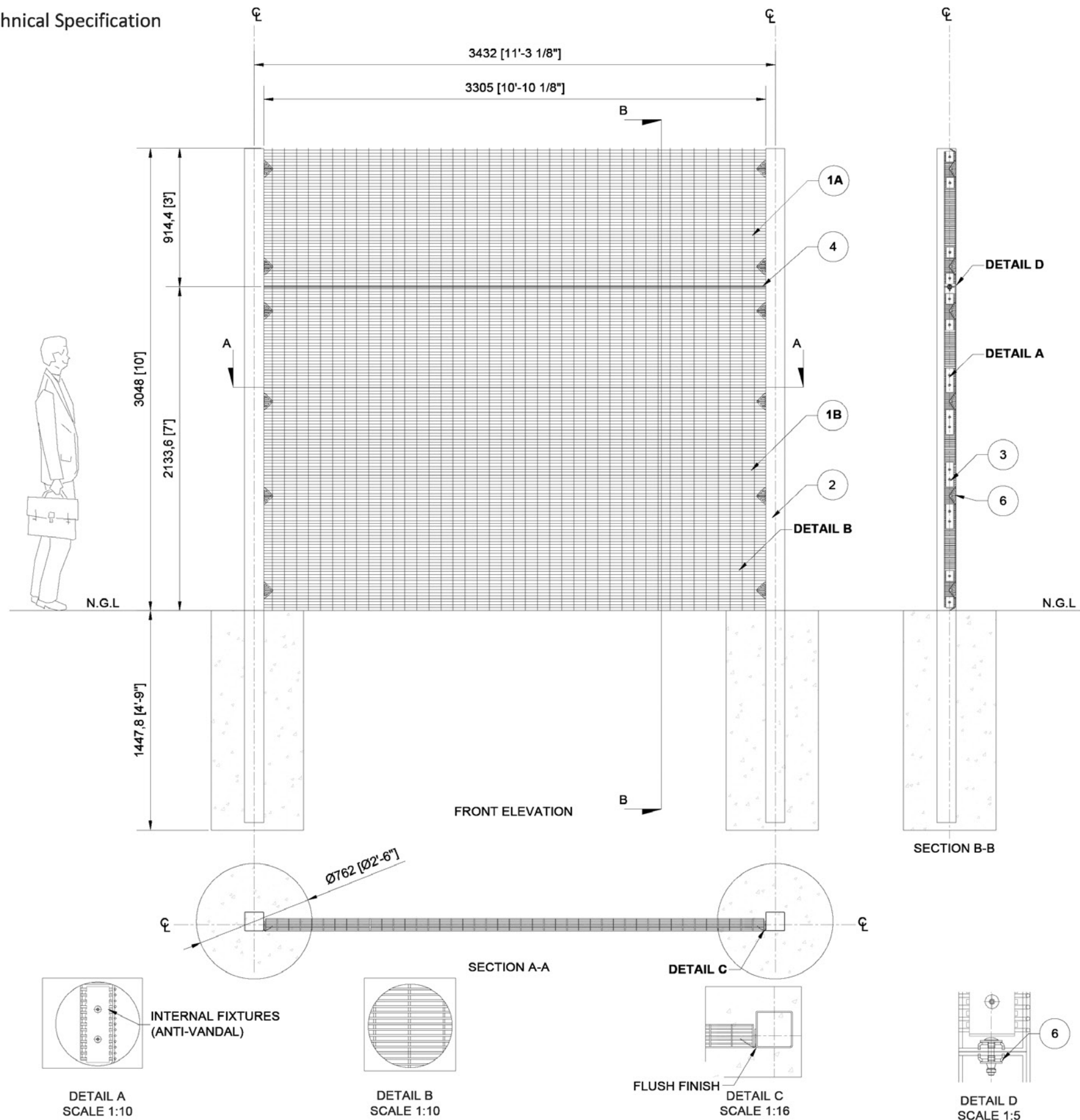
*Salvia leucantha 'Midnight'*  
Midnight Sage



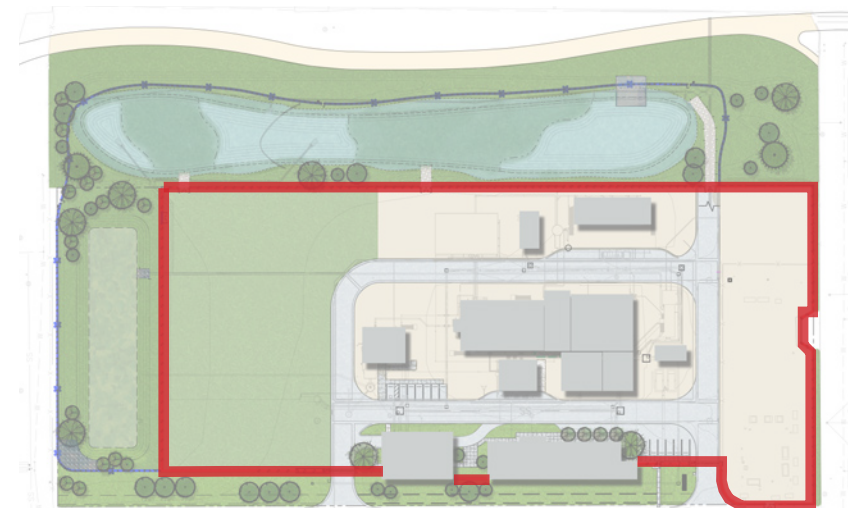
PLANTING ZONE KEY PLAN

# TI WRRF - PERIMETER SECURITY ENCLOSURE

Clearvu - Technical Specification

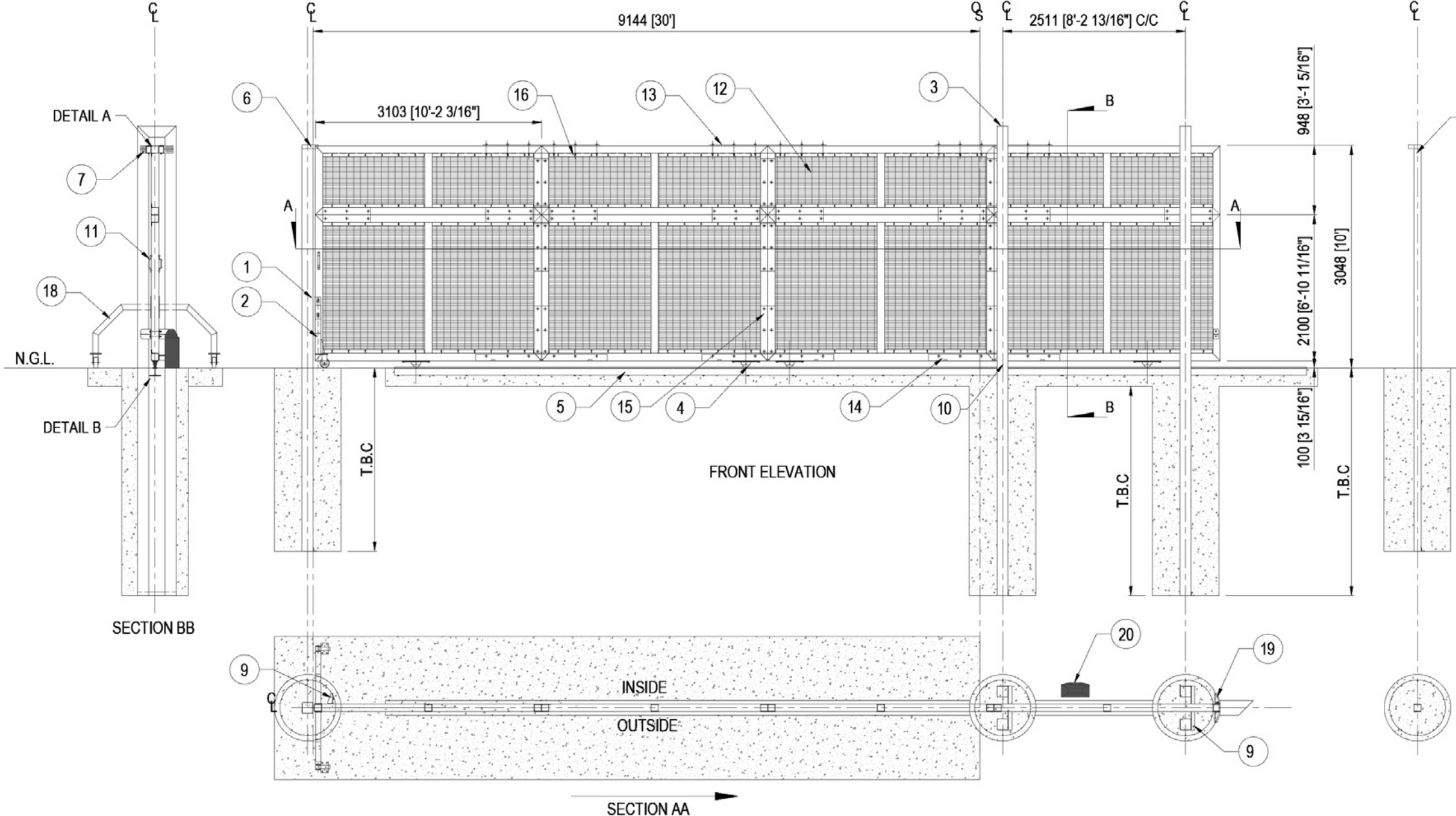


DESIGN INTENT IMAGE



PERIMETER SECURITY ENCLOSURE LAYOUT PLAN

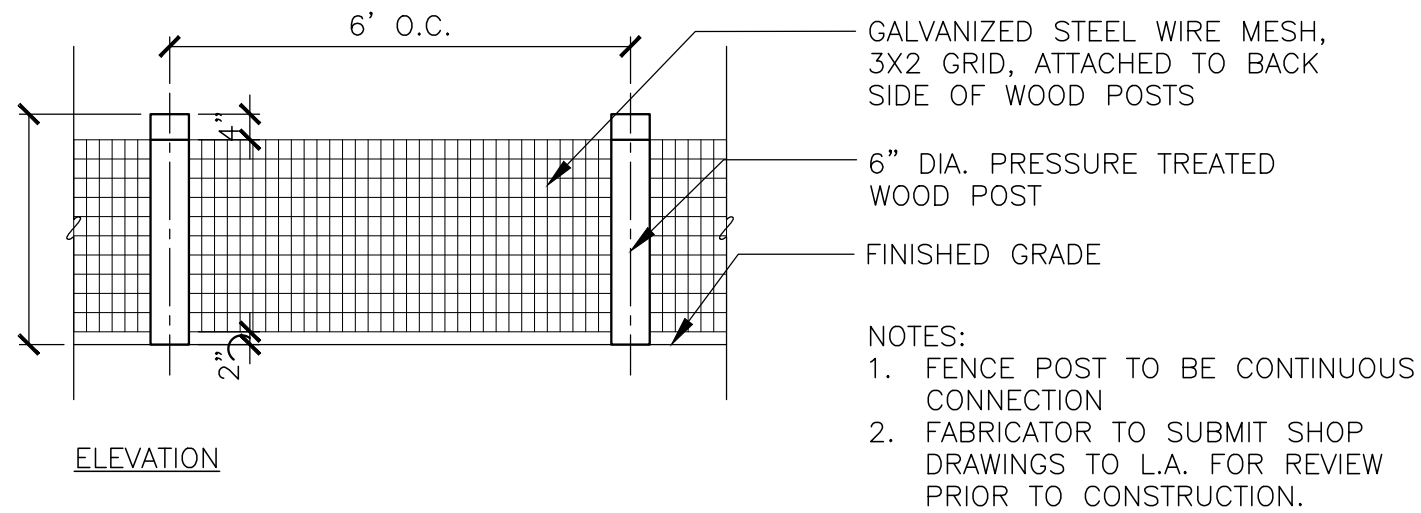
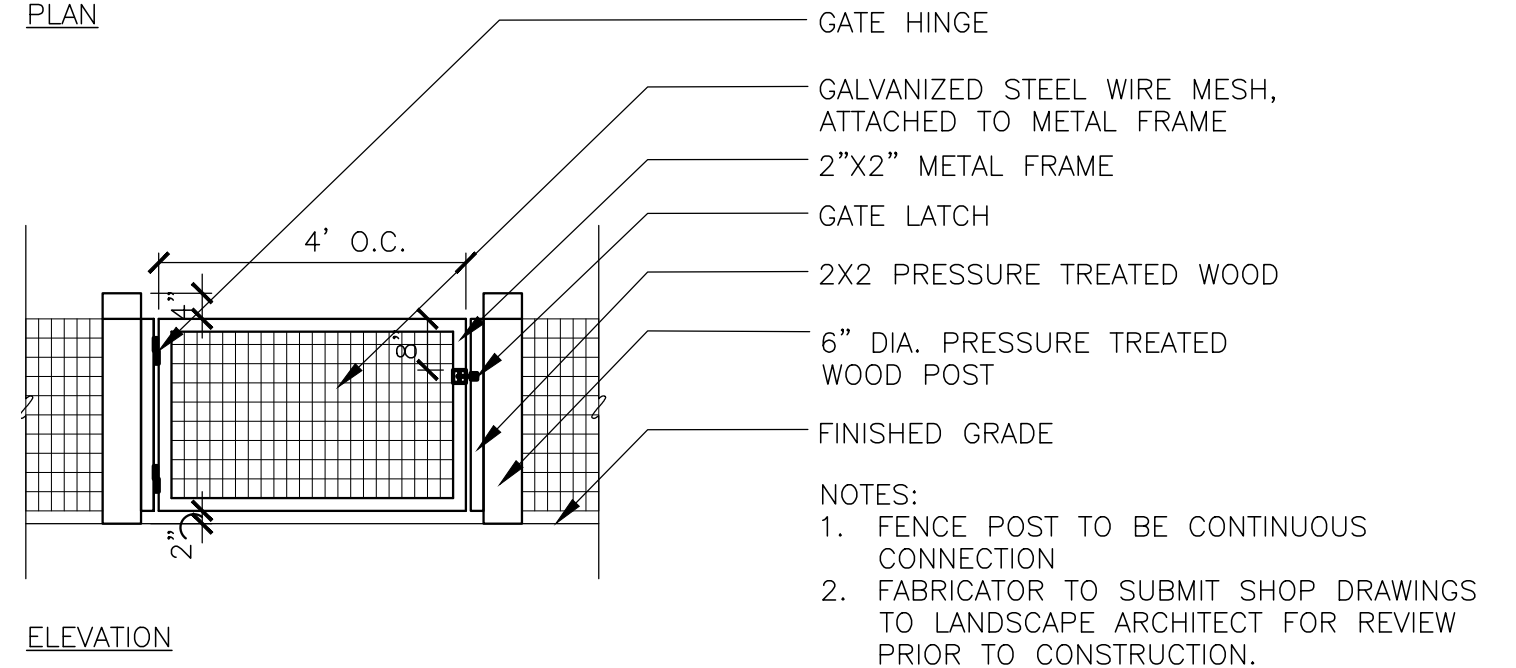
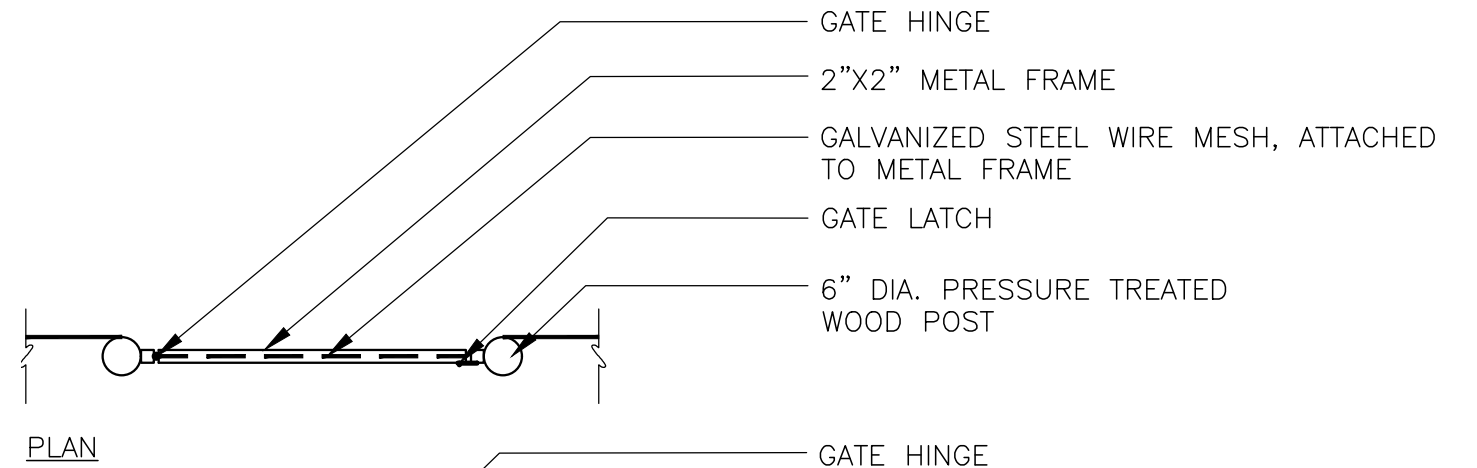
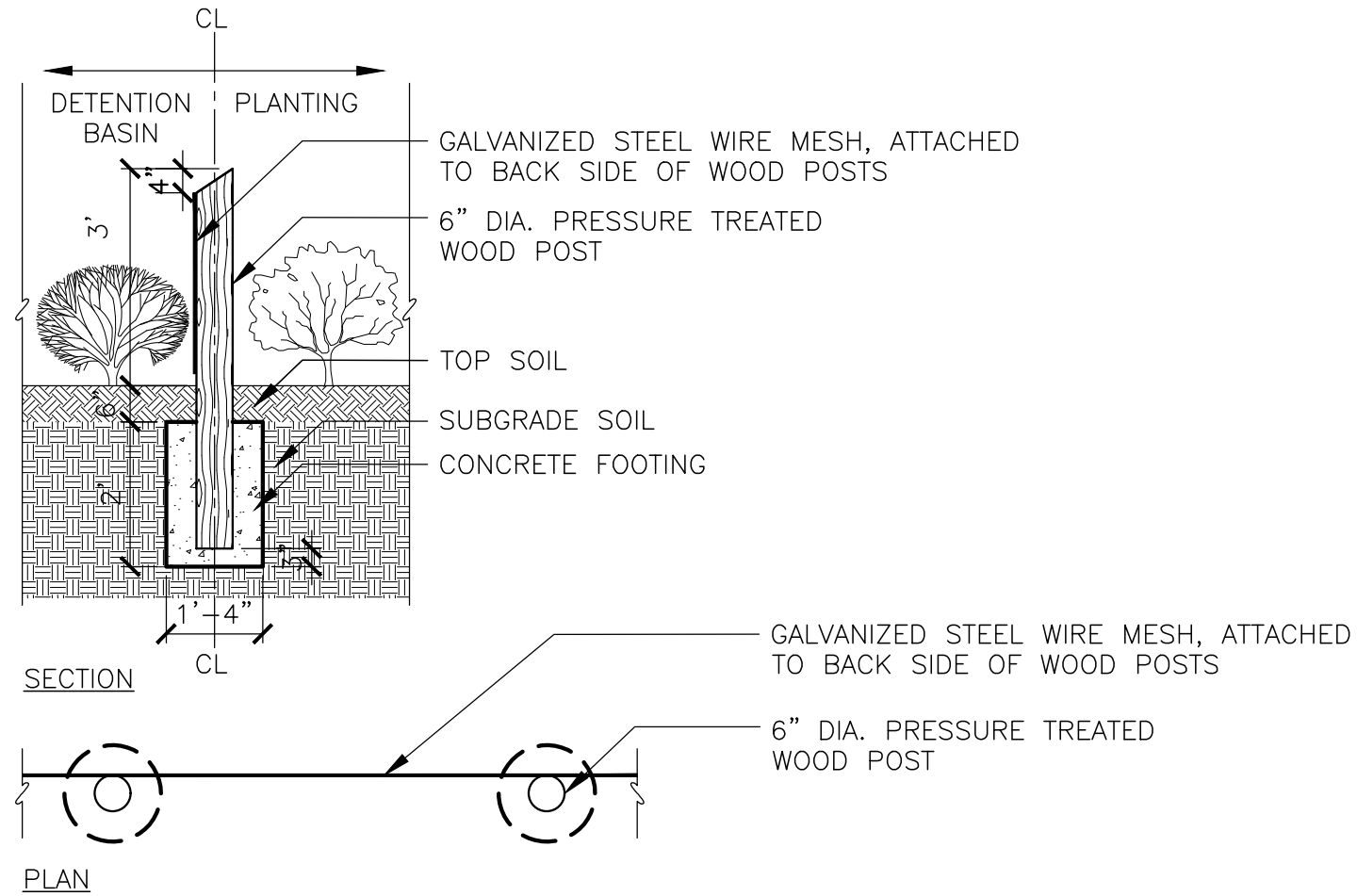
TI WRRF - VEHICULAR GATE



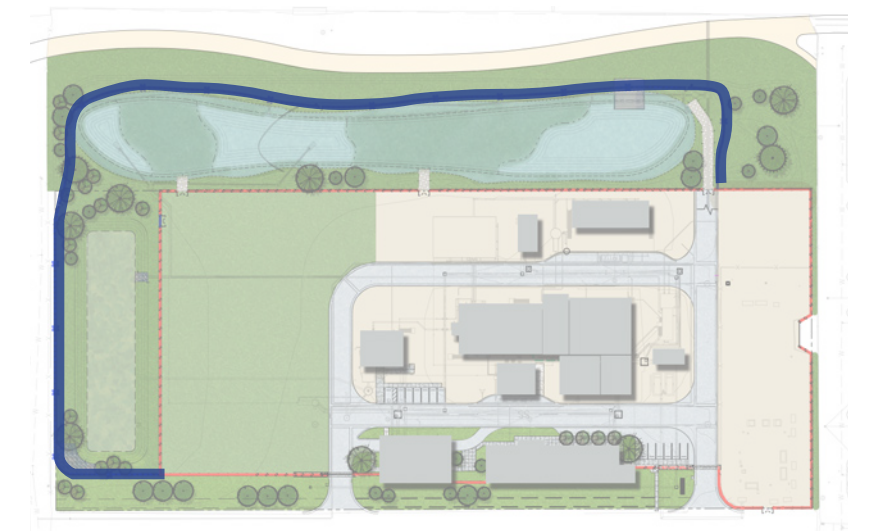
DESIGN INTENT IMAGE

**LEAF WEIGHT**  
1073.944kg / 2367.641lbs

# TI WRRF - WETLAND FENCE AND GATE



## MESH FENCE



WETLAND FENCE LAYOUT PLAN

EXTERIOR SIGNAGE AND GRAPHICS



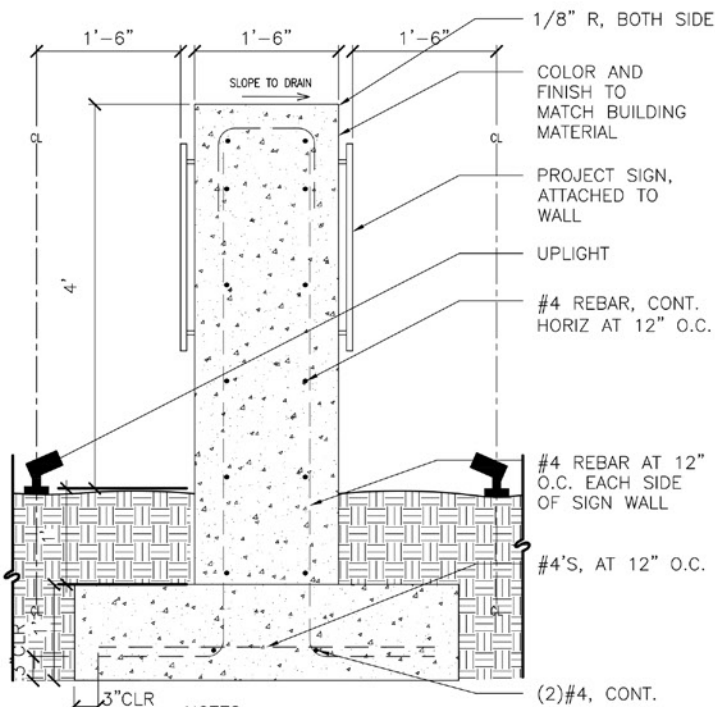
CONCRETE FINISH TO MATCH BUILDING  
SMOOTH CONCRETE FINISH



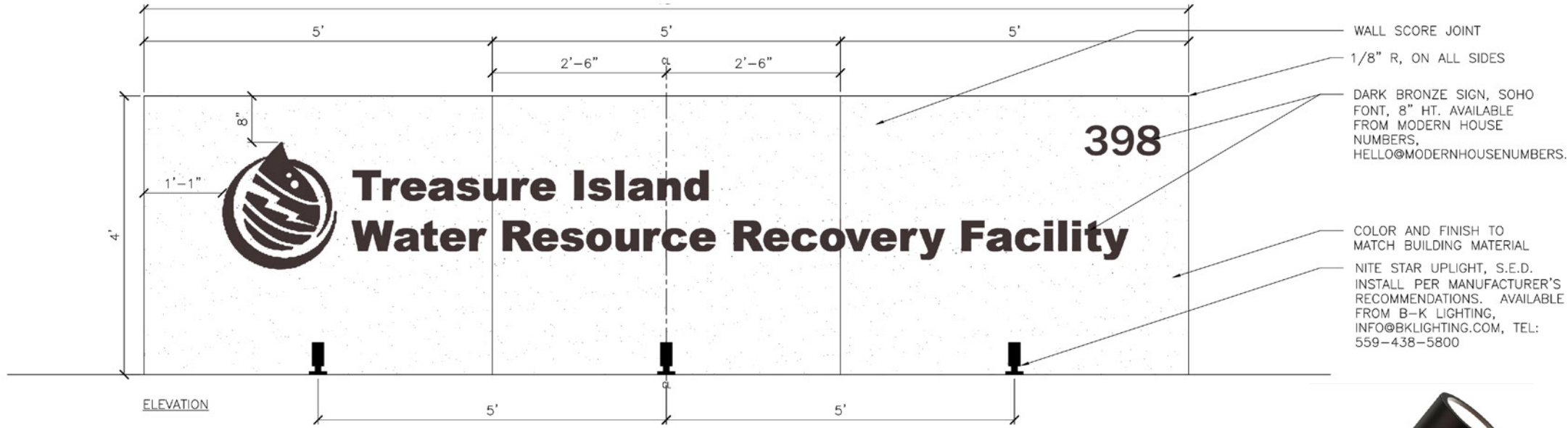
SOHO FONT



DARK BRONZE FINISH TO MATCH BUILDING  
PARAPET CAP



NOTES:  
1. DETAIL REVIEWED BY TUAN & ROBINSON STRUCTURAL ENGINEERS ON 9/26/2023



L-906 SIGN WALL  
SCALE: 1/2" = 1'

TOUR AROUND THE SITE - OVERVIEW



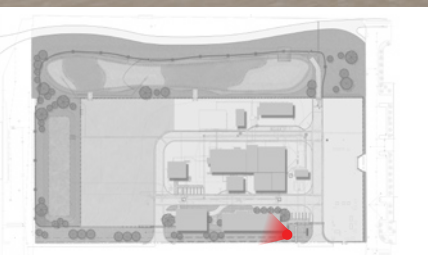
# TOUR AROUND THE FACILITY - SOUTH ENTRY AND ADMINISTRATION BUILDING



NOTE:  
FUTURE ROAD IMPROVEMENT CONSTRUCTION PROJECTED FOR 2028.



# TOUR AROUND THE FACILITY - ADMINISTRATION BUILDING



NOTE:  
FUTURE ROAD IMPROVEMENT CONSTRUCTION PROJECTED FOR 2028.

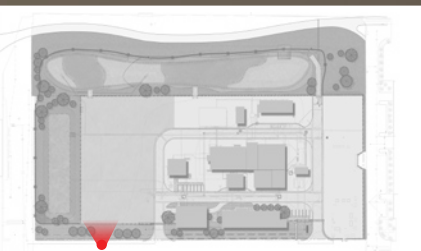


# TOUR AROUND THE FACILITY - MAINTENANCE BUILDING



NOTE:  
FUTURE ROAD IMPROVEMENT CONSTRUCTION PROJECTED FOR 2028.

TI WRRF PERIMETER ENCLOSURE - EASTSIDE AVE.



# TOUR AROUND THE FACILITY - NORTH PERIMETER

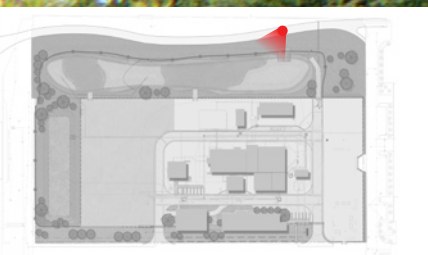


NOTE:  
FUTURE ROAD IMPROVEMENT CONSTRUCTION PROJECTED FOR 2028.

# TOUR AROUND THE FACILITY - NORTHERN SHORELINE PARK



# TOUR AROUND THE FACILITY - NORTHERN SHORELINE PARK AND WETLANDS



# TOUR AROUND THE FACILITY - NORTHERN SHORELINE PARK AND WETLANDS





THANK YOU  
QUESTIONS, ANSWERS AND  
DISCUSSION



San Francisco  
**Water Power Sewer**  
Services of the San Francisco Public Utilities Commission