

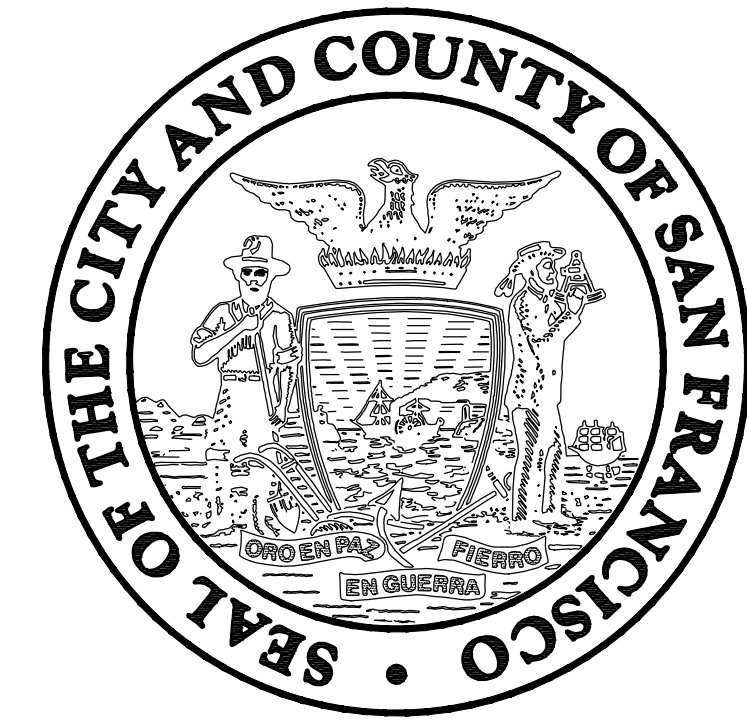


San Francisco  
**Water  
Power  
Sewer**

Services of the San Francisco Public Utilities Commission

CITY AND COUNTY OF SAN FRANCISCO  
**PUBLIC UTILITIES COMMISSION**

WASTEWATER ENTERPRISE



**TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY**

CONTRACT NO. DB-132  
CIVIC DESIGN REVIEW

MAY 10, 2024

CIVIC DESIGN REVIEW



**Tuan and Robinson  
Structural Engineers, Inc.**  
444 Spear Street, Suite 101  
San Francisco, CA 94105-1693  
415/957-2480 Fax 415/957-2483

**Merrill  
Morris**  
Merrill Morris Partners



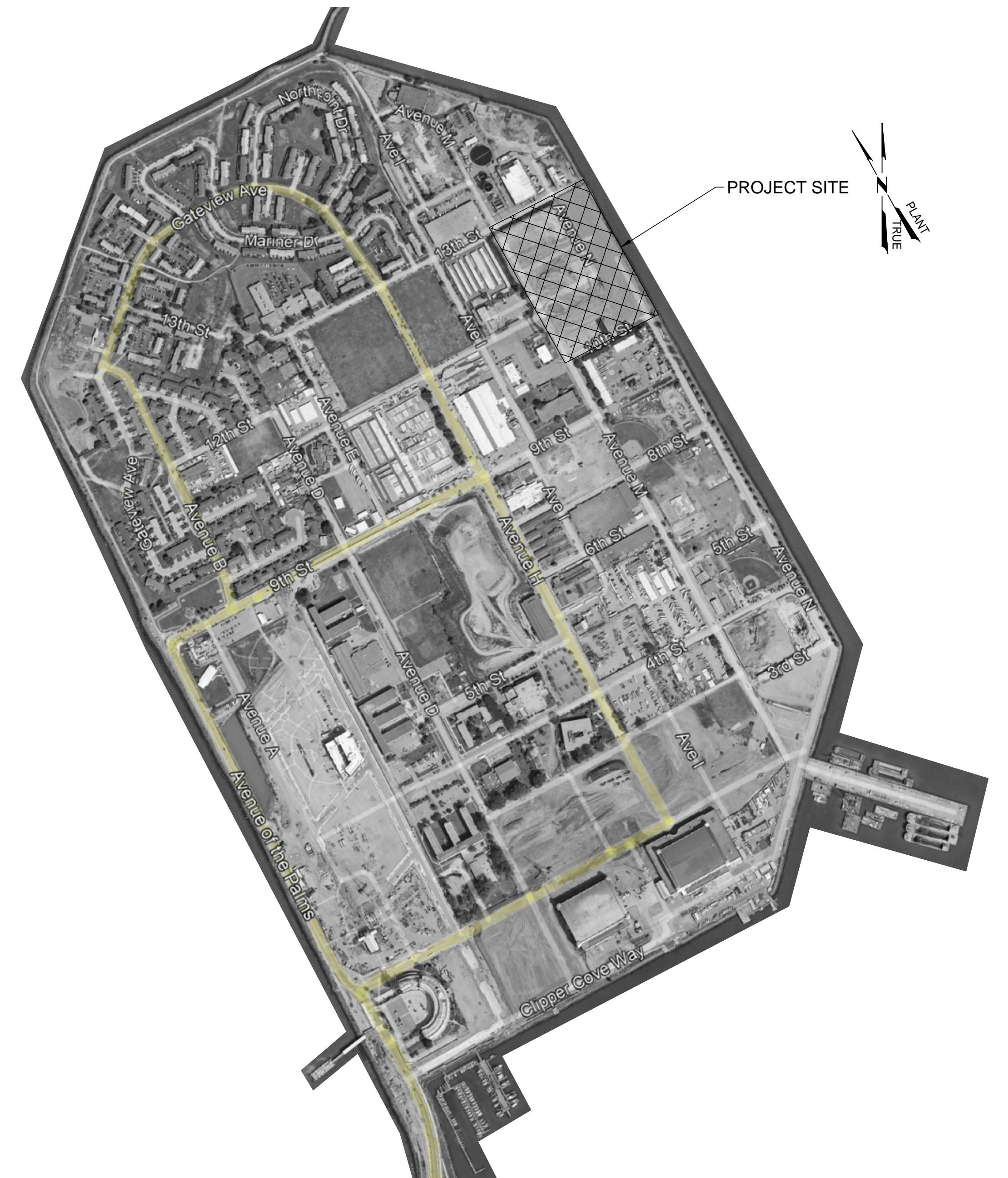
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AT THE TIME OF THE BID OPENING, THE CONTRACTOR SHALL POSSESS A VALID CALIFORNIA CLASS A, GENERAL ENGINEERING CONTRACTOR'S LICENSE.





**LOCATION MAP**  
NTS



**VICINITY MAP**  
NTS

**CIVIC DESIGN REVIEW**

**CONTRACT NO. DB-132**  
CITY AND COUNTY OF SAN FRANCISCO  
**PUBLIC UTILITIES COMMISSION**  
INFRASTRUCTURE DIVISION  
ENGINEERING MANAGEMENT BUREAU  
WASTEWATER ENTERPRISE  
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY  
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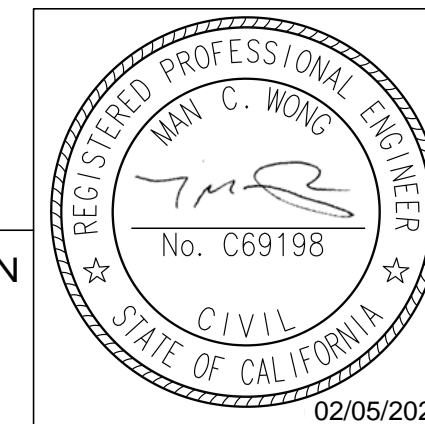
TIF GENERAL  
**LOCATION AND VICINITY MAP**

**Stantec**

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PROJECT ENGINEER	B WONG	DRAWN	R MARR
PROJECT MANAGER	T BROWN	DESIGNED	STANTEC
APPROVED		CHECKED	

NO.	DATE	DESCRIPTION	BY	APPRD
REVISIONS				



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ELEVATION  
DATUM  
NAVD88  
+100.00'

CHECKED / APPROVED	DRAWN
SECTION MANAGER	DESIGNED
WWE OPERATIONS MANAGER	SCALE: NTS
APPROVED	DATE: 12/22/2023
MANAGER, ENGINEERING MANAGEMENT BUREAU	WWE ENGINEERING MANAGER
PLAN NO. <b>G-0002</b>	DRAWING / FILE NO. <b>0</b>



DRAWING NO	FILE NO	REVISION NO	DRAWING TITLE
<b>GENERAL</b>			
G-0001			COVER SHEET
G-0002			GENERAL - LOCATION AND VICINITY MAP
G-0003			GENERAL - LIST OF DRAWINGS 1 OF 3
<b>LANDSCAPING</b>			
L-0101			GENERAL - STANDARD LANDSCAPE CONSTRUCTION DETAILS
L-0111			GENERAL - STANDARD IRRIGATION DETAILS 1 OF 4
L-0112			GENERAL - STANDARD IRRIGATION DETAILS 2 OF 4
L-0113			GENERAL - STANDARD IRRIGATION DETAILS 3 OF 4
L-0114			GENERAL - STANDARD IRRIGATION DETAILS 4 OF 4
L-0120			GENERAL - STANDARD SOIL AMENDMENT DETAILS
L-0130			GENERAL - STANDARD PLANTING DETAILS
L-1000			GENERAL - LANDSCAPE MATERIALS LEGEND
L-1100			GENERAL - IRRIGATION LEGEND
L-1200			GENERAL - SOIL PREPARATION LEGEND
L-1300			GENERAL - PLANTING LEGEND
L-5001			GENEARL - LANDSCAPE CONSTRUCTION DETAILS 1 OF 7
L-5002			GENEARL - LANDSCAPE CONSTRUCTION DETAILS 2 OF 7
L-5003			GENEARL - LANDSCAPE CONSTRUCTION DETAILS 3 OF 7
L-5004			GENEARL - LANDSCAPE CONSTRUCTION DETAILS 4 OF 7
L-5005			GENEARL - LANDSCAPE CONSTRUCTION DETAILS 5 OF 7
L-5006			GENEARL - LANDSCAPE CONSTRUCTION DETAILS 6 OF 7
L-5007			GENEARL - LANDSCAPE CONSTRUCTION DETAILS 7 OF 7
000-L-1000			SITEWIDE - OVERALL SITE PLAN, GENERAL NOTES AND ABBREVIATIONS
000-L-1001			SITEWIDE - AREA 'A' - LANDSCAPE MATERIALS PLAN
000-L-1002			SITEWIDE - AREA 'B' - LANDSCAPE MATERIALS PLAN
000-L-1003			SITEWIDE - AREA 'C' - LANDSCAPE MATERIALS PLAN
000-L-1004			SITEWIDE - AREA 'D' - LANDSCAPE MATERIALS PLAN
000-L-1101			SITEWIDE - AREA 'A' - IRRIGATION PLAN
000-L-1102			SITEWIDE - AREA 'B' - IRRIGATION PLAN
000-L-1103			SITEWIDE - AREA 'C' - IRRIGATION PLAN
000-L-1104			SITEWIDE - AREA 'D' - IRRIGATION PLAN
000-L-1201			SITEWIDE - AREA 'A' - SOIL PREPARATION PLAN
000-L-1202			SITEWIDE - AREA 'B' - SOIL PREPARATION PLAN
000-L-1203			SITEWIDE - AREA 'C' - SOIL PREPARATION PLAN
000-L-1204			SITEWIDE - AREA 'D' - SOIL PREPARATION PLAN
000-L-1301			SITEWIDE - AREA 'A' - PLANTING PLAN
000-L-1302			SITEWIDE - AREA 'B' - PLANTING PLAN
000-L-1303			SITEWIDE - AREA 'C' - PLANTING PLAN
000-L-1304			SITEWIDE - AREA 'D' - PLANTING PLAN
555-L-1001			WETLANDS - AREA KEY
555-L-1101			WETLANDS - IRRIGATION PLAN 1 OF 3
555-L-1102			WETLANDS - IRRIGATION PLAN 2 OF 3
555-L-1103			WETLANDS - IRRIGATION PLAN 3 OF 3
555-L-1301			WETLANDS - PLANTING PLAN 1 OF 3
555-L-1302			WETLANDS - PLANTING PLAN 2 OF 3
555-L-1303			WETLANDS - PLANTING PLAN 3 OF 3
555-L-3001			WETLANDS - SECTIONS
555-L-5001			WETLANDS - DETAILS 1 OF 3
555-L-5002			WETLANDS - DETAILS 2 OF 3
555-L-5003			WETLANDS - DETAILS 3 OF 3
555-L-6301			WETLANDS - PLANTING SCHEDULE
<b>ARCHITECTURAL</b>			
A-0010			WIRE FENCE DETAILS
000-A-0001			SITEWIDE - OVERALL SITE LIFE SAFETY AND SIGNAGE PLAN
930-A-1001			ADMINISTRATION BUILDING - CODE SUMMARY AND LIFE SAFETY PLAN
930-A-1002			ADMINISTRATION BUILDING - LEVEL 1 PLAN
930-A-1003			ADMINISTRATION BUILDING - ROOF PLAN
930-A-1004			ADMINISTRATION BUILDING - REFLECTED CEILING PLAN
930-A-2001			ADMINISTRATION BUILDING - EXTERIOR ELEVATIONS
930-A-3001			ADMINISTRATION BUILDING - BUILDING SECTION 1 OF 2
930-A-3002			ADMINISTRATION BUILDING - BUILDING SECTION 2 OF 2
930-A-3003			ADMINISTRATION BUILDING - WINDOW WALL SECTIONS
930-A-4001			ADMINISTRATION BUILDING - ENLARGED PLAN AND INTERIOR ELEVATIONS 1 OF 6
930-A-4002			ADMINISTRATION BUILDING - ENLARGED PLAN AND INTERIOR ELEVATIONS 2 OF 6
930-A-4003			ADMINISTRATION BUILDING - ENLARGED PLAN AND INTERIOR ELEVATIONS 3 OF 6
930-A-4004			ADMINISTRATION BUILDING - ENLARGED PLAN AND INTERIOR ELEVATIONS 4 OF 6
930-A-4005			ADMINISTRATION BUILDING - ENLARGED PLAN AND INTERIOR ELEVATIONS 5 OF 6
930-A-4006			ADMINISTRATION BUILDING - ENLARGED PLAN AND INTERIOR ELEVATIONS 6 OF 6
940-A-9001			ADMINISTRATION BUILDING - ISOMETRIC VIEWS
940-A-1001			MAINTENANCE SHOPS - CODE SUMMARY AND LIFE SAFETY PLANS
940-A-1002			MAINTENANCE SHOPS - LEVEL 1 PLAN
940-A-1003			MAINTENANCE SHOPS - ROOF PLAN
940-A-2001			MAINTENANCE SHOPS - EXTERIOR ELEVATIONS 1 OF 2
940-A-2002			MAINTENANCE SHOPS - EXTERIOR ELEVATIONS 2 OF 2
940-A-3001			MAINTENANCE SHOPS - SECTION 1 OF 2
940-A-3002			MAINTENANCE SHOPS - SECTION 2 OF 2
940-A-3002			MAINTENANCE SHOPS - WINDOW WALL PLAN AND SECTIONS
940-A-9001			MAINTENANCE SHOPS - ISOMETRIC VIEW
<b>STRUCTURAL</b>			
930-S-1001			ADMINISTRATION BUILDING - FOUNDATION AND LEVEL 1 PLAN
930-S-1002			ADMINISTRATION BUILDING - ROOF PLAN
930-S-2001			ADMINISTRATION BUILDING - SHEAR WALL ELEVATIONS
930-S-3001			ADMINISTRATION BUILDING - SECTIONS 1 OF 3
930-S-3002			ADMINISTRATION BUILDING - SECTIONS 2 OF 3
930-S-3003			ADMINISTRATION BUILDING - SECTIONS 3 OF 3
930-S-4001			ADMINISTRATION BUILDING - ENLARGED PLANS
930-S-5001			ADMINISTRATION BUILDING - DETAILS 1 OF 2
930-S-5002			ADMINISTRATION BUILDING - DETAILS 2 OF 2
930-S-6001			ADMINISTRATION BUILDING - ROOF LOADING DIAGRAM
940-S-1001			MAINTENANCE SHOPS - FOUNDATION AND LEVEL 1 PLAN
940-S-1002			MAINTENANCE SHOPS - ROOF PLAN
940-S-2001			MAINTENANCE SHOPS - SHEAR WALL ELEVATIONS 1 OF 4
940-S-2002			MAINTENANCE SHOPS - SHEAR WALL ELEVATIONS 2 OF 4
940-S-2003			MAINTENANCE SHOPS - SHEAR WALL ELEVATIONS 3 OF 4
940-S-2004			MAINTENANCE SHOPS - SHEAR WALL ELEVATIONS 4 OF 4
940-S-3001			MAINTENANCE SHOPS - SECTIONS 1 OF 2
940-S-3002			MAINTENANCE SHOPS - SECTIONS 2 OF 2
940-S-5001			MAINTENANCE SHOPS - DETAILS
940-S-6001			MAINTENANCE SHOPS - ROOF LOADING DIAGRAM

**CIVIC DESIGN REVIEW**

**CONTRACT NO. DB-132**  
 CITY AND COUNTY OF SAN FRANCISCO  
**PUBLIC UTILITIES COMMISSION**  
 INFRASTRUCTURE DIVISION  
 ENGINEERING MANAGEMENT BUREAU  
 WASTEWATER ENTERPRISE  
 TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY  
 TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY

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PROJECT ENGINEER	B WONG	DRAWN	R MARR
PROJECT MANAGER	T BROWN	DESIGNED	STANTEC
APPROVED		CHECKED	
NO.	DATE	DESCRIPTION	BY
REVISIONS			

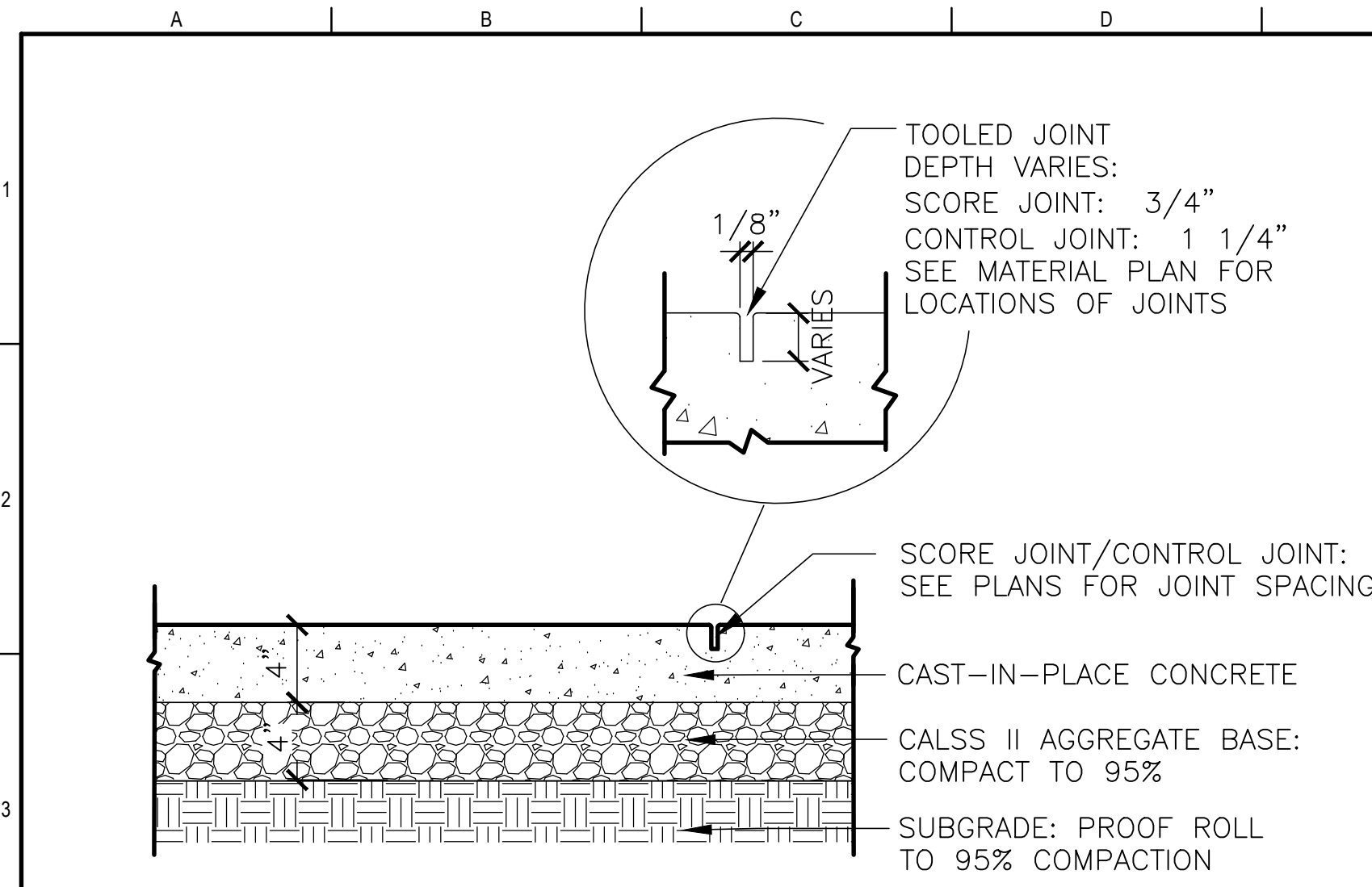
CHECKED / APPROVED		DRAWN	
SECTION MANAGER		DESIGNED	
WWE OPERATIONS MANAGER		SCALE	DATE
APPROVED		NTS	05/03/2024
MANAGER, ENGINEERING MANAGEMENT BUREAU		WWE ENGINEERING MANAGER	
PLAN NO.	DRAWING / FILE NO.	REVISION NO.	
<b>G-0003</b>		<b>0</b>	

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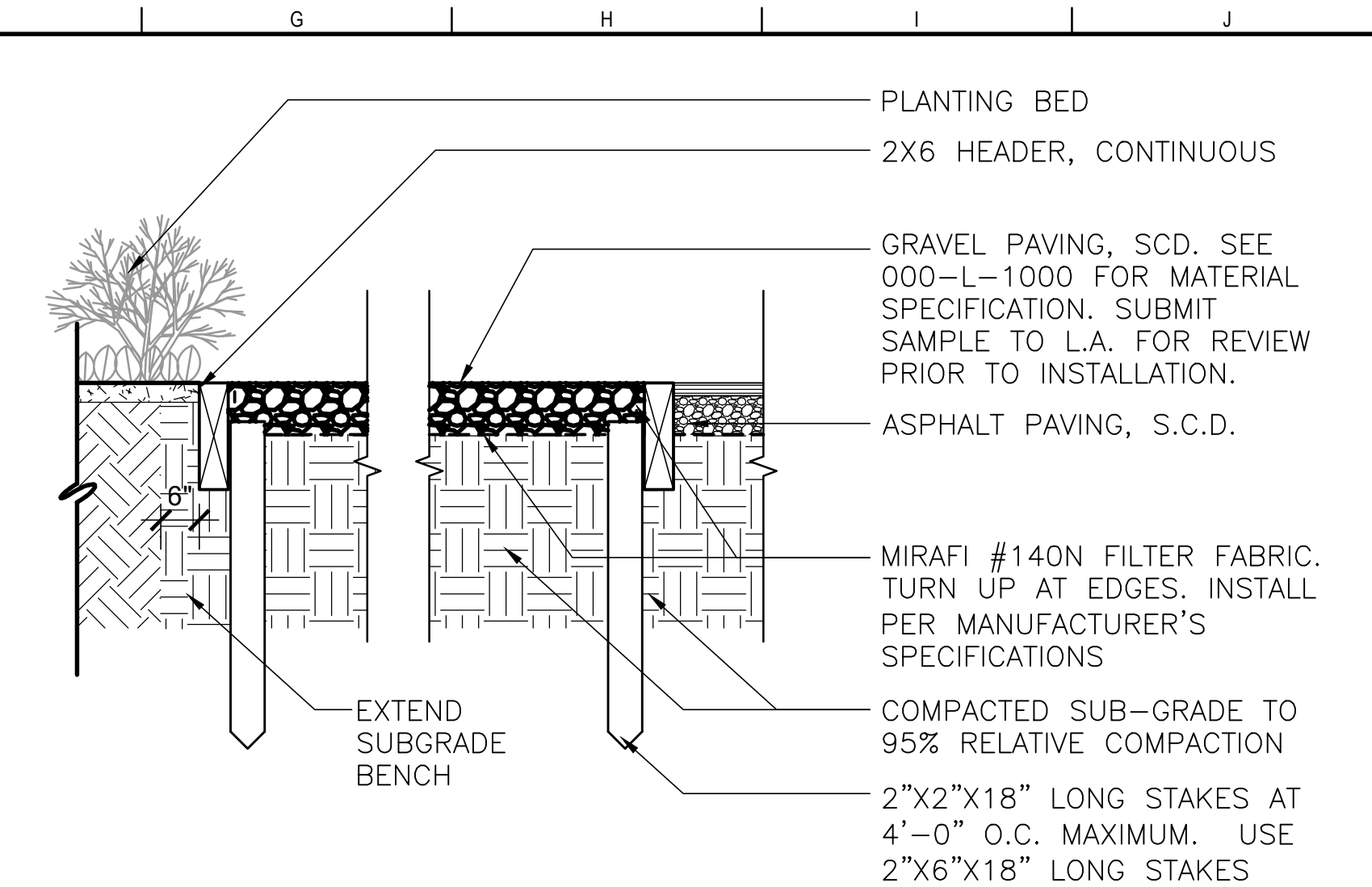
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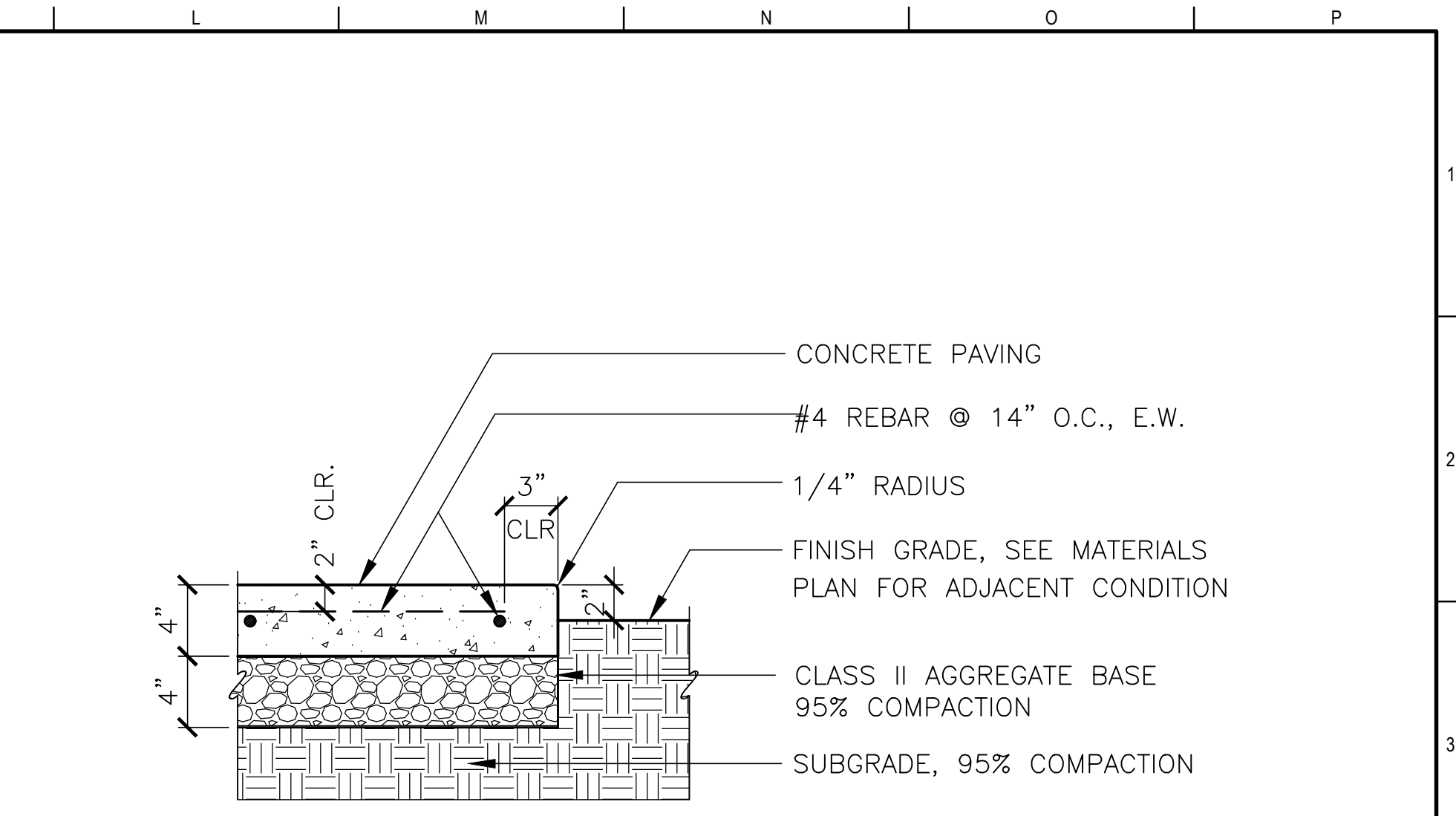




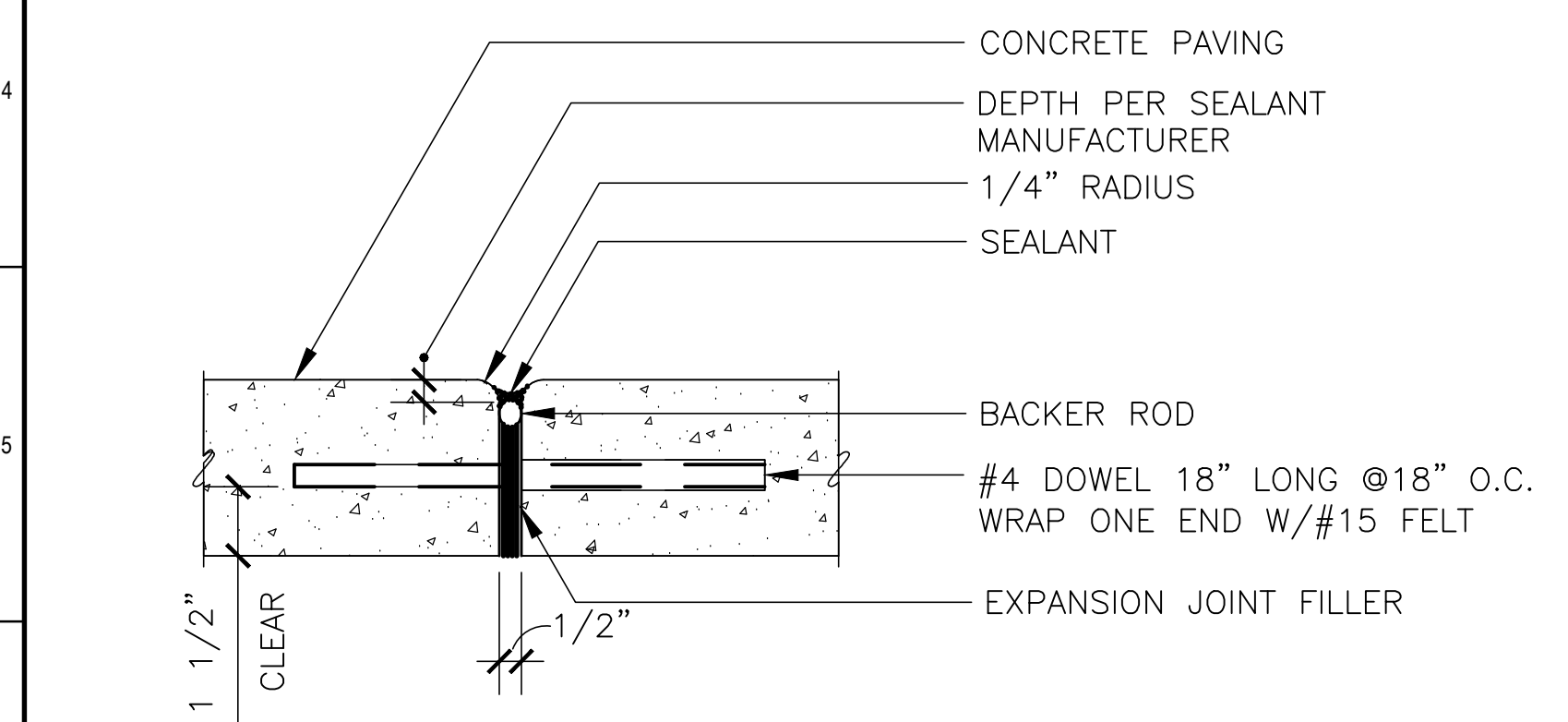
**L-900 PEDESTRIAN CONCRETE PAVING**  
SCALE: 1 1/2" = 1'



**L-901 REDWOOD HEADER**  
SCALE: 1/2" = 1'



**L-902 PEDESTRIAN CONCRETE PAVING INTERFACE**  
SCALE: 1 1/2" = 1'



**L-903 EXPANSION JOINT**  
SCALE: 1/2" = 1'

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DATUM  
NAVD88  
+100.00'

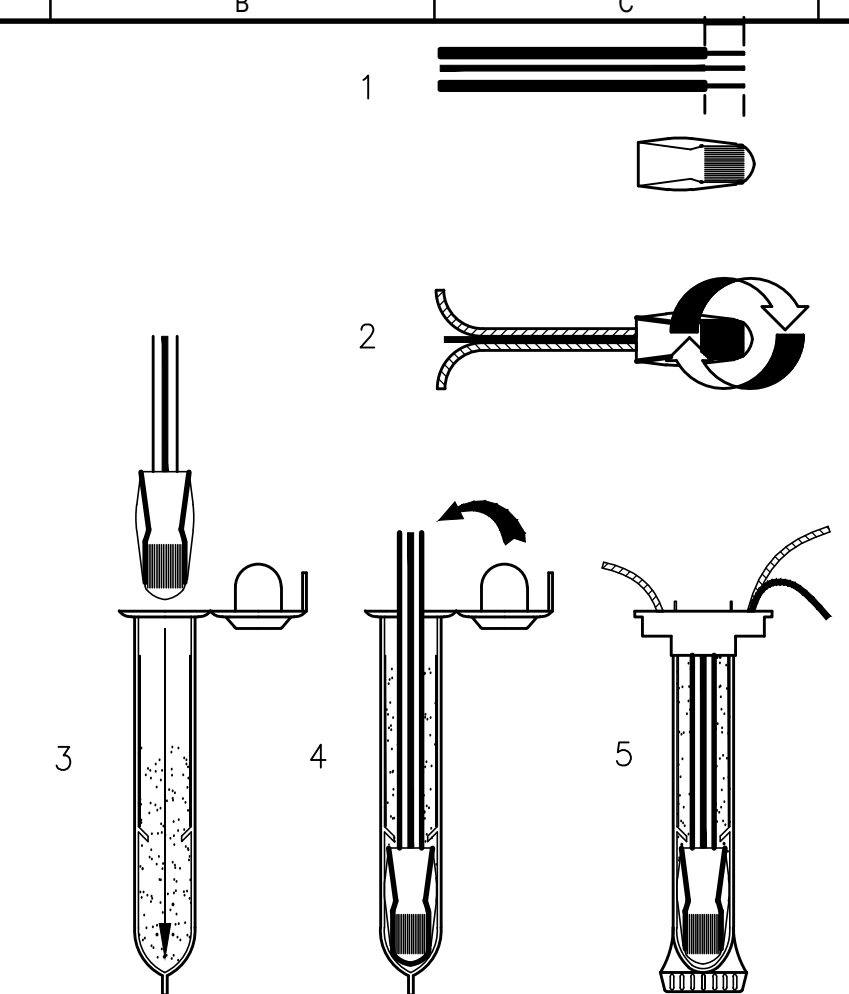


CIVIC DESIGN REVIEW

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PROJECT ENGINEER	B WONG	DRAWN	V YUAN
PROJECT MANAGER	T BROWN	DESIGNED	J BECKMAN
APPROVED	J BECKMAN	CHECKED	J BECKMAN
NO.	DATE	DESCRIPTION	BY
REVISIONS			

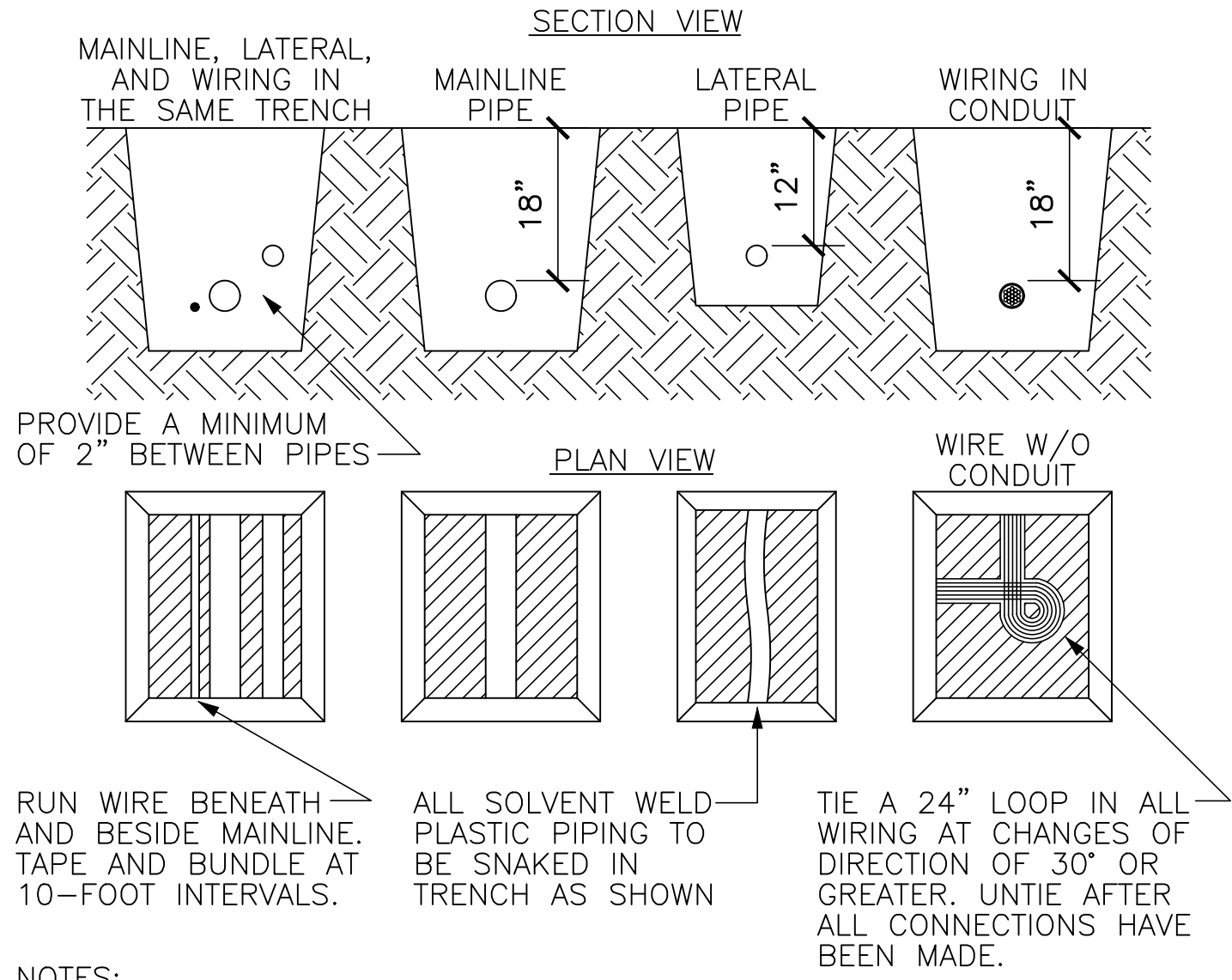
<b>CONTRACT NO. DB-132</b>			
CITY AND COUNTY OF SAN FRANCISCO			
<b>PUBLIC UTILITIES COMMISSION</b>			
INFRASTRUCTURE DIVISION			
ENGINEERING MANAGEMENT BUREAU			
WASTEWATER ENTERPRISE			
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY			
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY			
TIF GENERAL			
<b>STANDARD LANDSCAPE CONSTRUCTION DETAILS</b>			
CHECKED / APPROVED	DRAWN		
SECTION MANAGER	DESIGNED		
WWE OPERATIONS MANAGER	SCALE	NTS	DATE 05/03/2024
APPROVED	APPROVED		
MANAGER, ENGINEERING MANAGEMENT BUREAU		WWE ENGINEERING MANAGER	
PLAN NO.	DRAWING / FILE NO.	REVISION NO.	
<b>L-0101</b>		<b>0</b>	





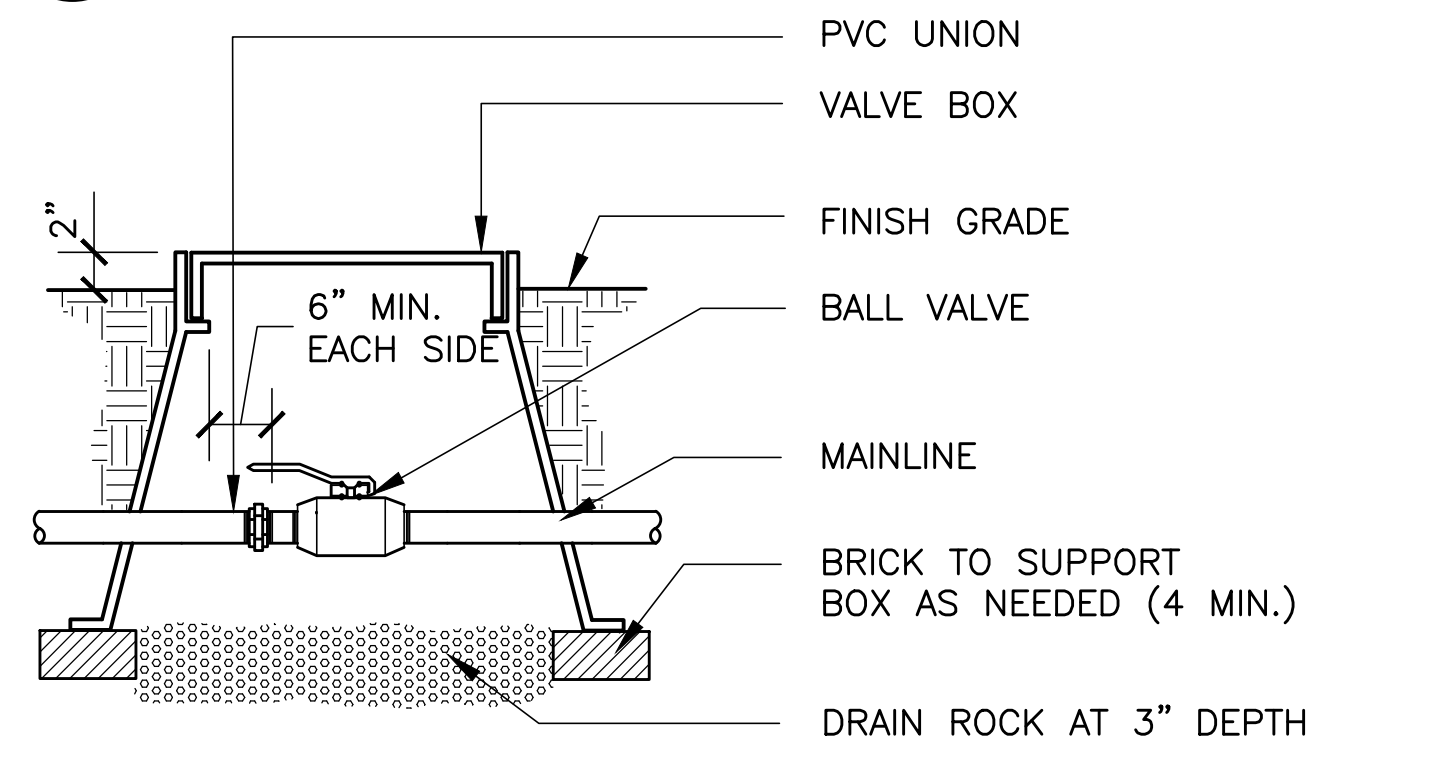
- INSTRUCTIONS:**
- STRIP WIRES APPROXIMATELY 1/2" (12.7 MM) TO EXPOSE WIRE.
  - TWIST CONNECTOR AROUND WIRES CLOCKWISE UNTIL HAND TIGHT, DO NOT OVERTIGHTEN.
  - INSERT WIRE ASSEMBLY INTO PLASTIC TUBE UNTIL WIRE CONNECTOR SNAPS PAST LIP IN BOTTOM OF TUBE.
  - PLACE WIRES WHICH EXIT TUBE IN WIRE EXIT HOLES AND CLOSE CAP UNTIL IT SNAPS.
  - INSPECT FINAL SPLICE ASSEMBLY TO BE SECURE AND FINISHED.

**L-926 WATERPROOF WIRE CONNECTIONS ASSEMBLY**  
NTS

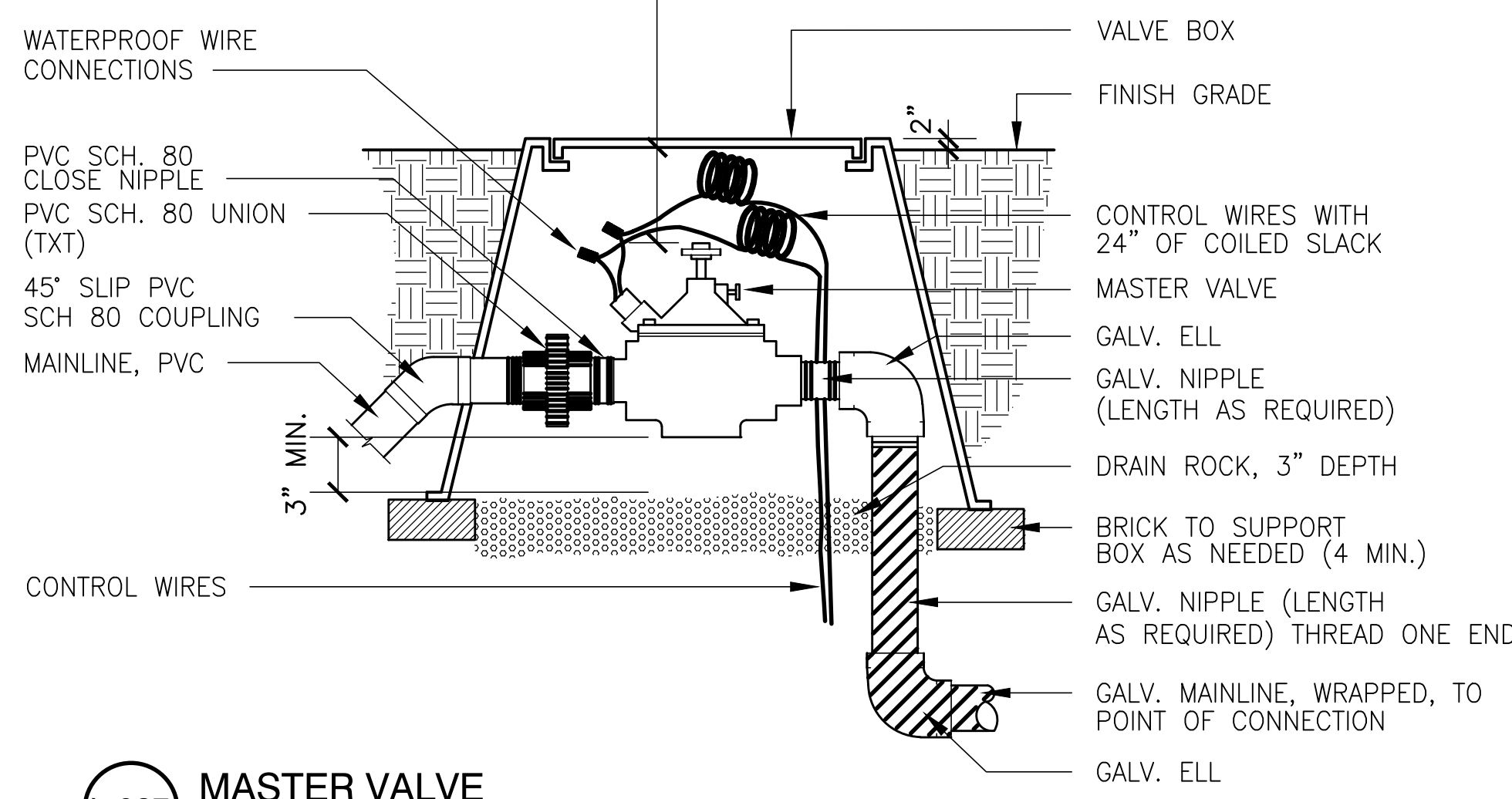


- NOTES:**
- SLEEVE BELOW ALL HARDSCAPE ELEMENTS WITH CLASS 200 PVC TWICE THE DIAMETER OF THE PIPE OR WIRE BUNDLE WITHIN.
  - WIRE BURIAL DEPTH SHALL BE A MINIMUM OF 18" WHEN PLACED INDEPENDENT OF A SLEEVE OR MAIN LINE.

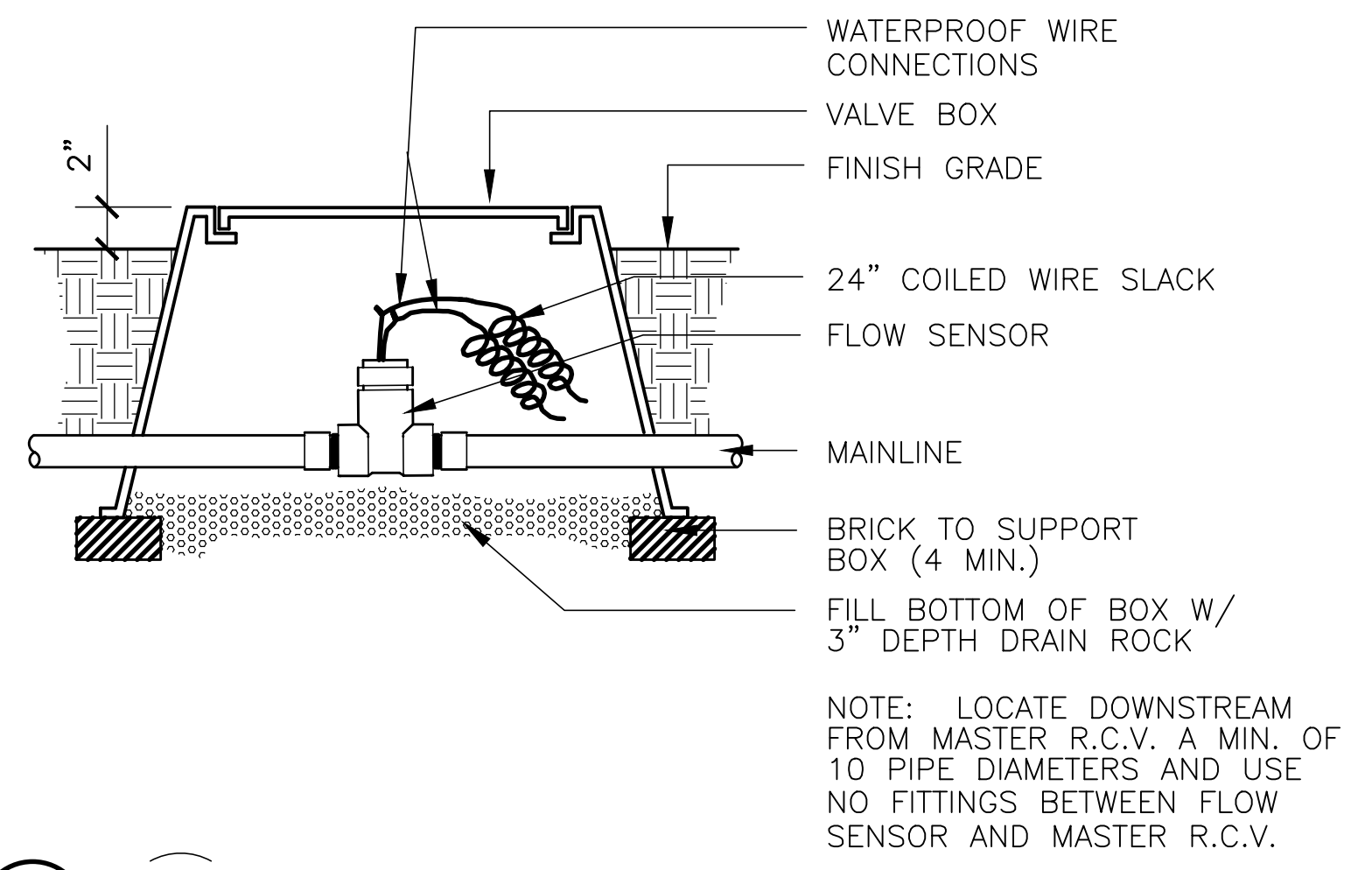
**L-929 PIPE AND WIRE TRENCHING**  
NTS



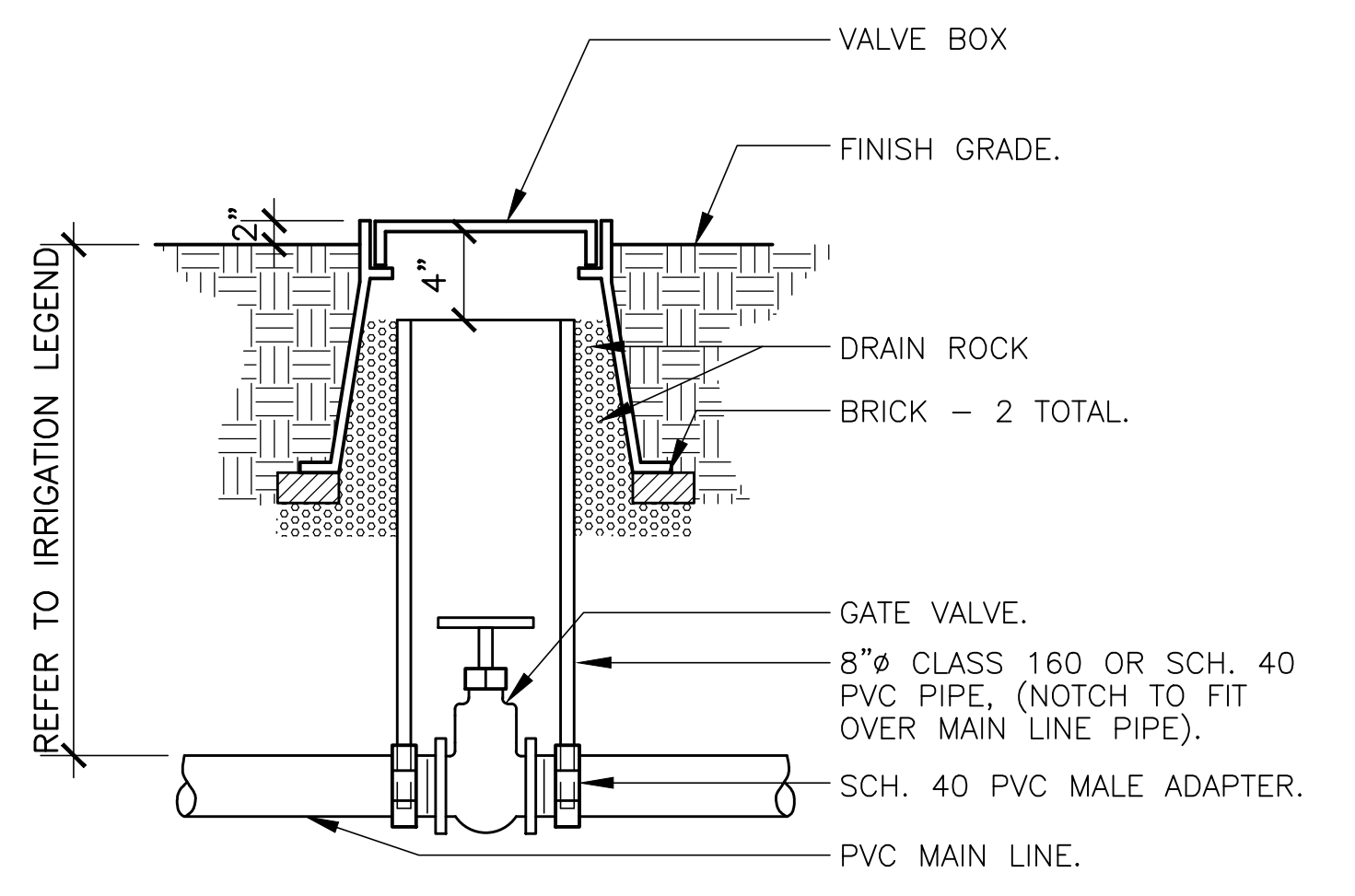
**L-932 BALL VALVE**  
NTS



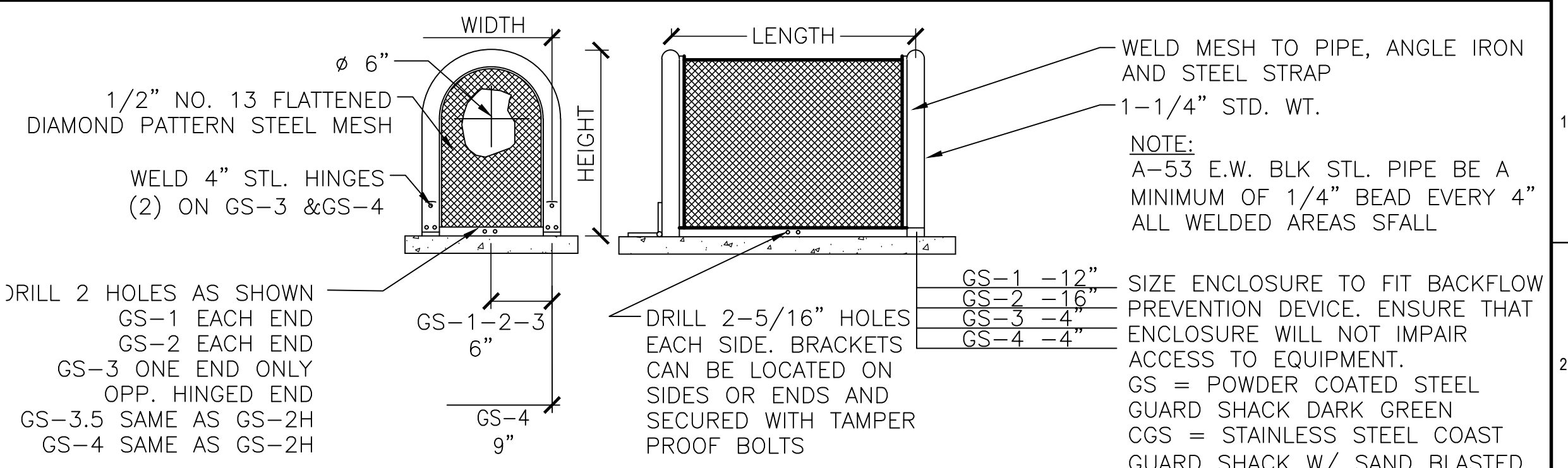
**L-927 MASTER VALVE**  
NTS



**L-930 FLOW SENSOR**  
NTS



**L-933 2 1/2" AND SMALLER GATE VALVE**  
NTS

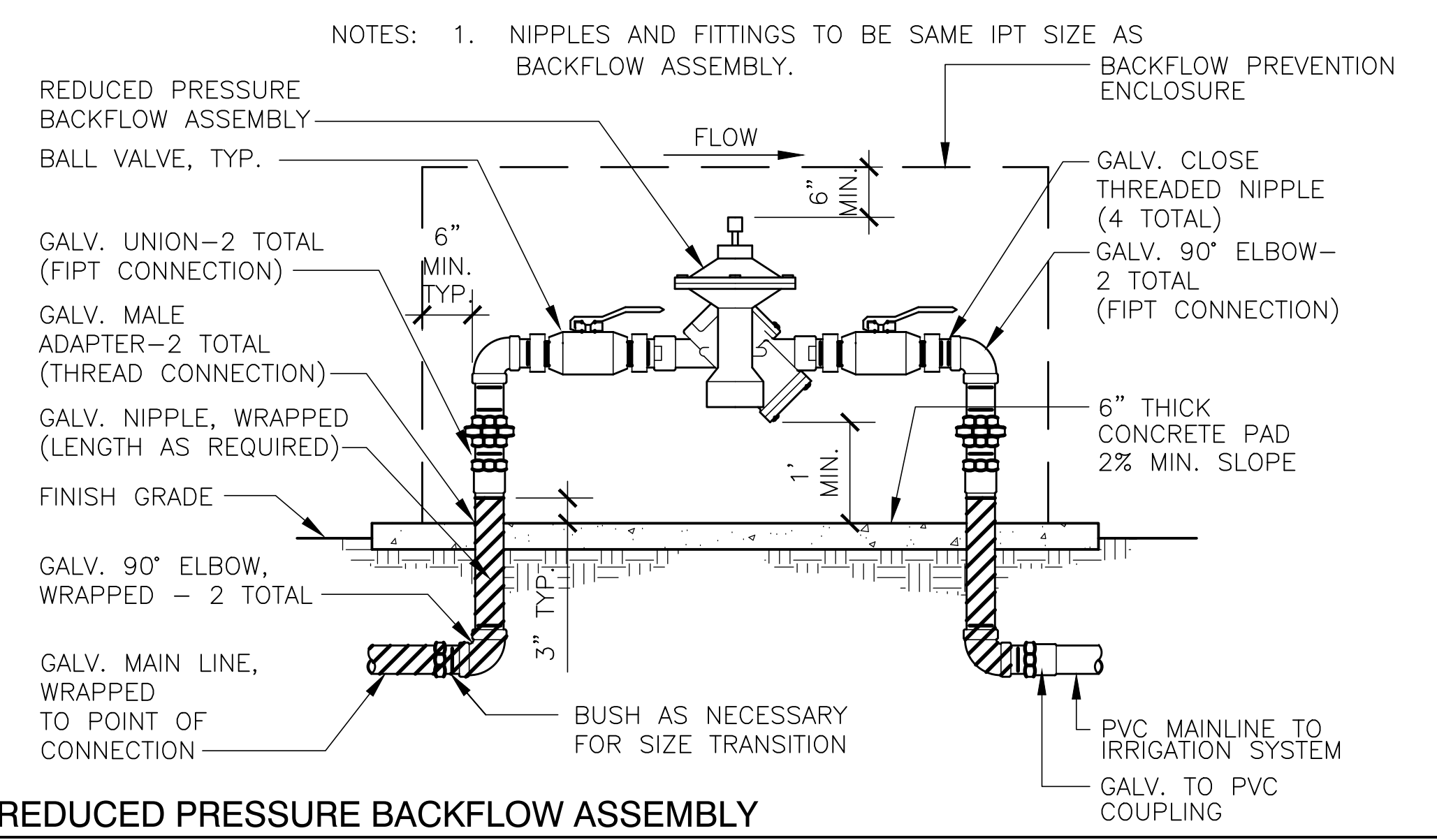


STD. WEIGHT SIZES CGS CENTERLINE DIMENSIONS

GS	GS	GS	GS
GS-.5	12"W x 18"H x 12"L	LIFT OFF UNIT	35 30
GS-1	12"W x 24"H x 24"L	LIFT OFF UNIT	40 34
GS-2	12"W x 24"H x 32"L	LIFT OFF UNIT	45 40
GS-3	12"W x 24"H x 42"L	HINGED UNIT	51 46
CGS-3.5	12"W x 30"H x 42"L	HINGED UNIT	N/A 55
GS-4	18"W x 30"H x 48"L	HINGED UNIT	67 60

NOTE: AFTER ALL WELDING, ENTIRE UNIT SHALL BE PROCESSED WITH IRON PHOSPHATE PRETREATMENT. ELECTROSTATIC APPLICATION OF POWDER SHALL BE FUSION BONDED-PRS-8-4004-C (BEIGE) OR PRS-8-4003-C (LEAF GREEN) OR APPROVED EQUAL. ALL UNITS ALSO AVAILABLE IN 304 S.S. GS-3.5 AVAILABLE IN 304 S.S. ONLY. ALL BOLTS FOR HINGES AND HASPS SHALL BE ZINC PLATED TAMPER PROOF, EXCEPTION-USE SS HARDWARE FOR SS UNITS.

**L-928 BACKFLOW ENCLOSURE ASSEMBLY**  
NTS



**L-931 REDUCED PRESSURE BACKFLOW ASSEMBLY**  
NTS

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ELEVATION DATUM NAVD88 +100.00'



**CIVIC DESIGN REVIEW**

PROJECT ENGINEER	B WONG	DRAWN	V YUAN
PROJECT MANAGER	T BROWN	DESIGNED	J BECKMAN
APPROVED		CHECKED	J BECKMAN

NO. DATE DESCRIPTION BY APPRD

REVISIONS

**CONTRACT NO. DB-132**

CITY AND COUNTY OF SAN FRANCISCO  
**PUBLIC UTILITIES COMMISSION**  
INFRASTRUCTURE DIVISION  
ENGINEERING MANAGEMENT BUREAU

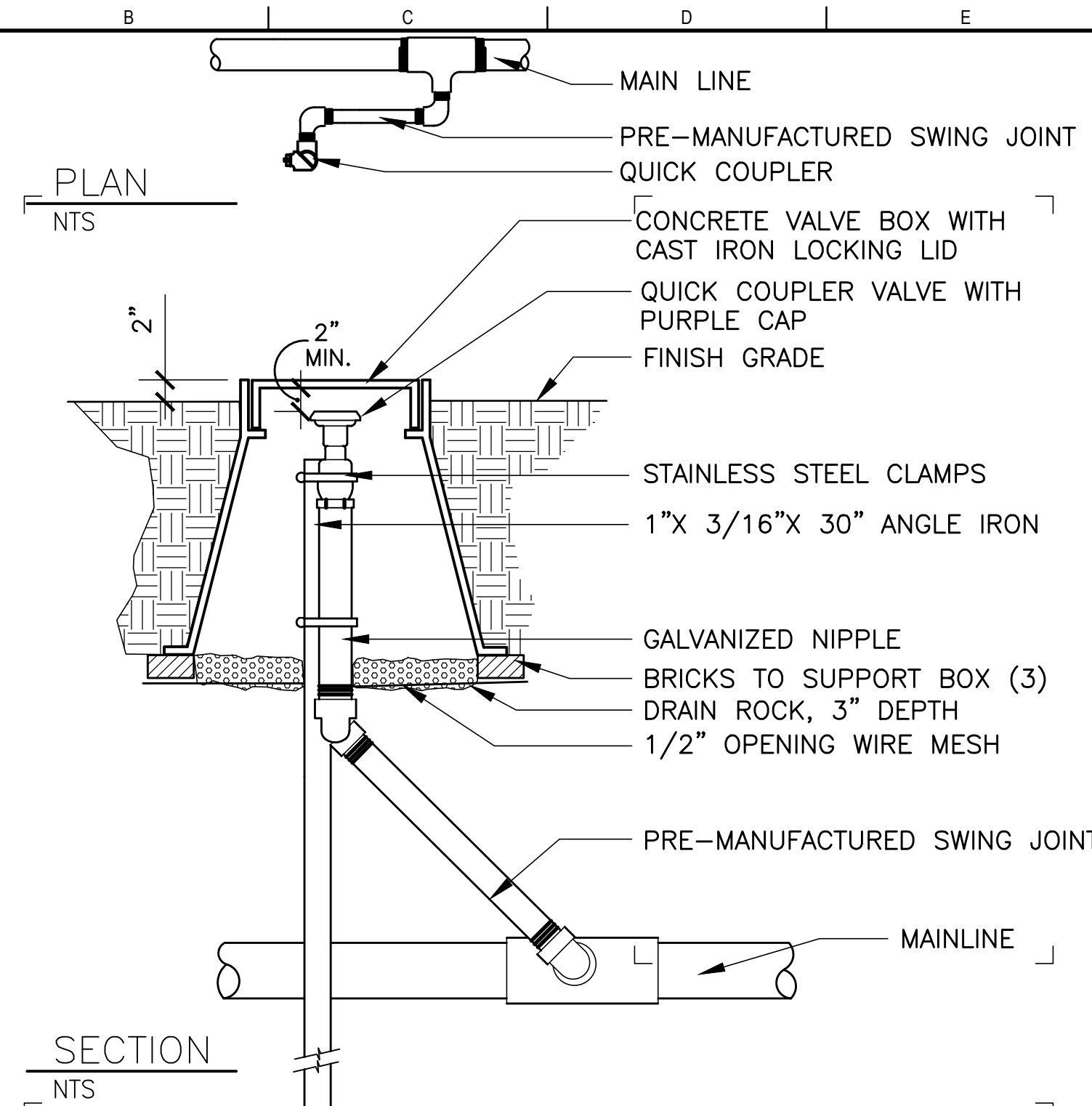
WASTEWATER ENTERPRISE  
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY  
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**TIF GENERAL**

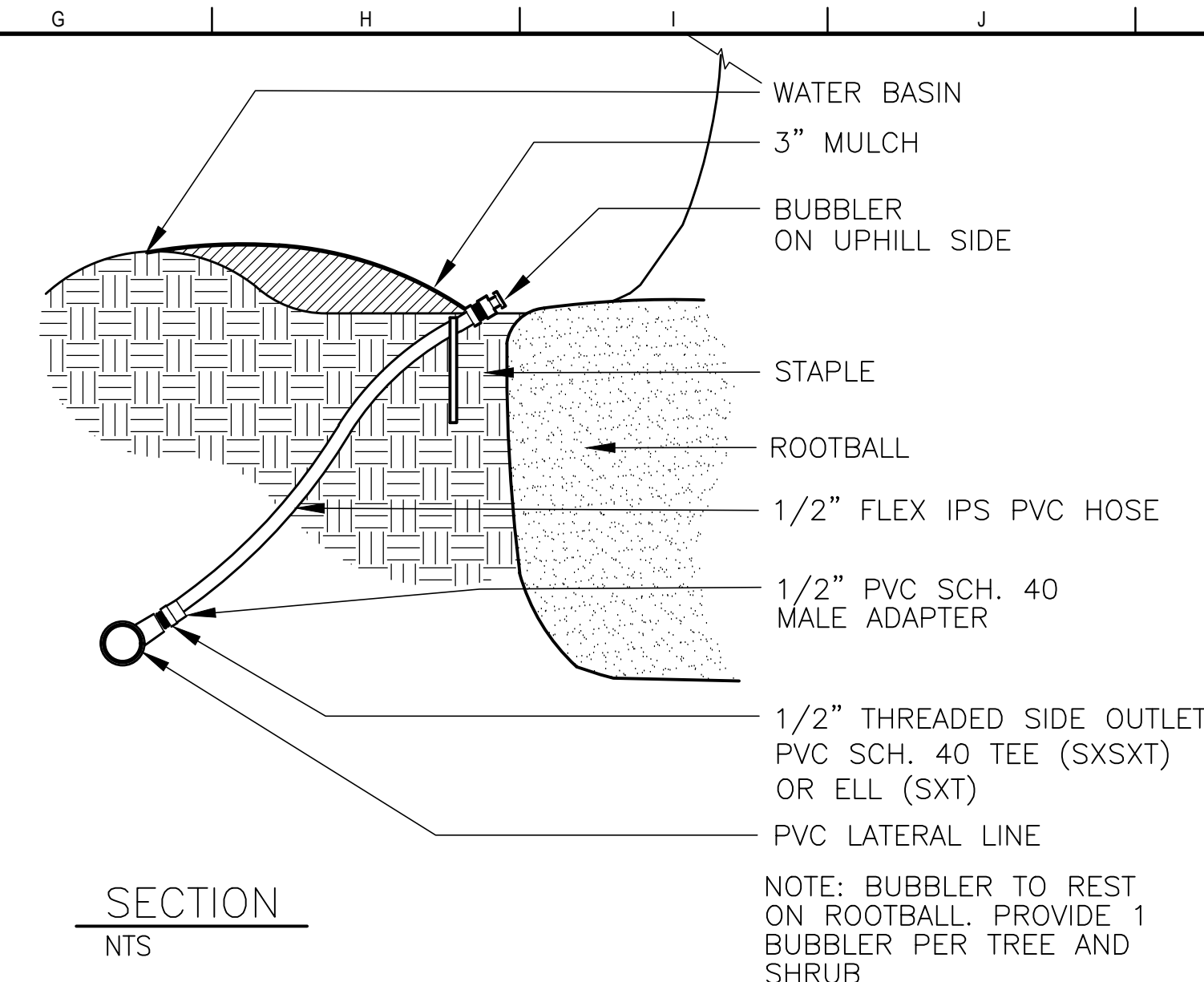
**STANDARD IRRIGATION DETAILS 1 OF 4**

CHECKED / APPROVED	DRAWN
SECTION MANAGER	DESIGNED
WWE OPERATIONS MANAGER	SCALE
DATE	05/03/2024
APPROVED	APPROVED
MANAGER, ENGINEERING MANAGEMENT BUREAU	WWE ENGINEERING MANAGER
MAN. NO.	DRAWING / FILE NO.
<b>L-0111</b>	<b>0</b>

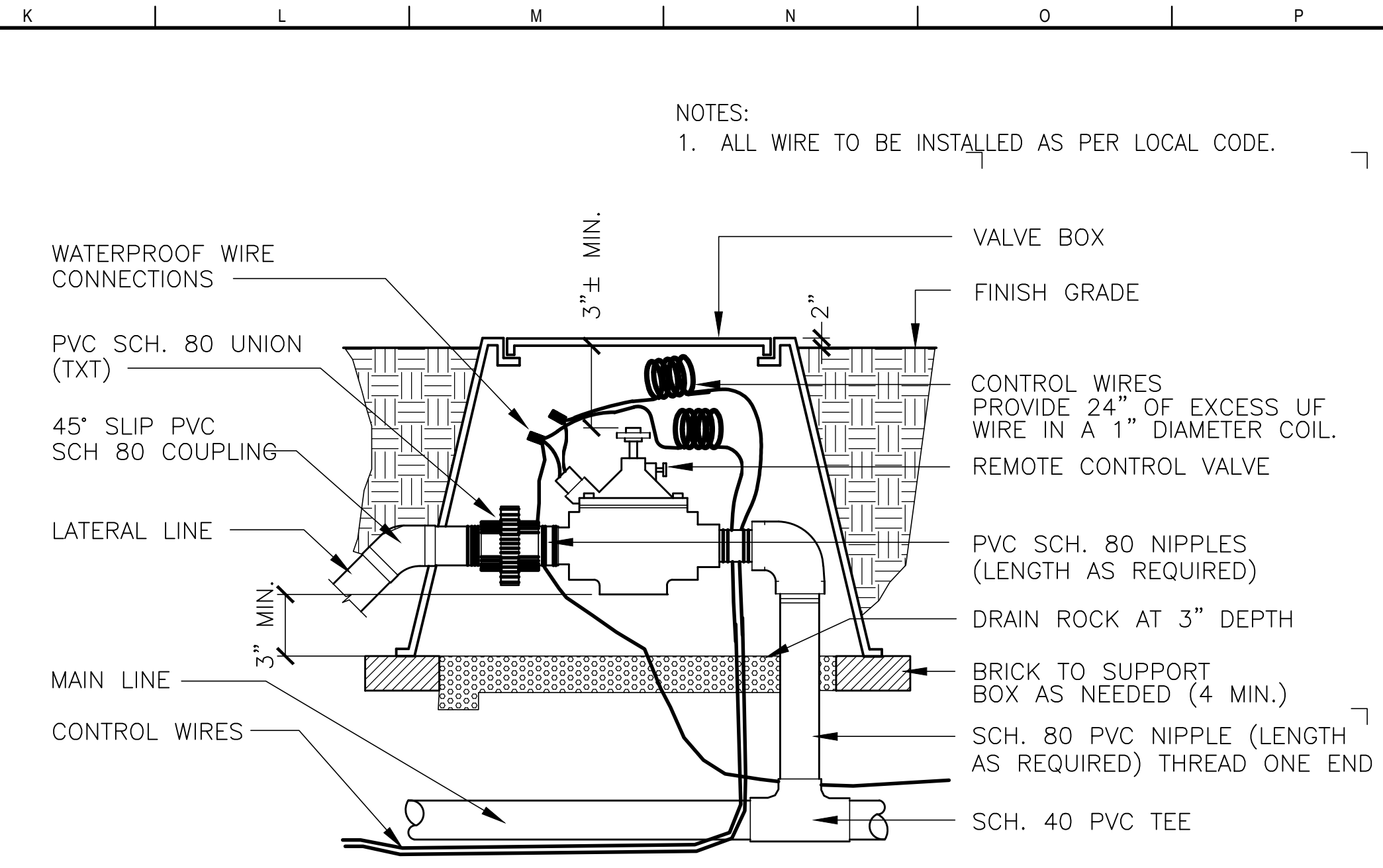




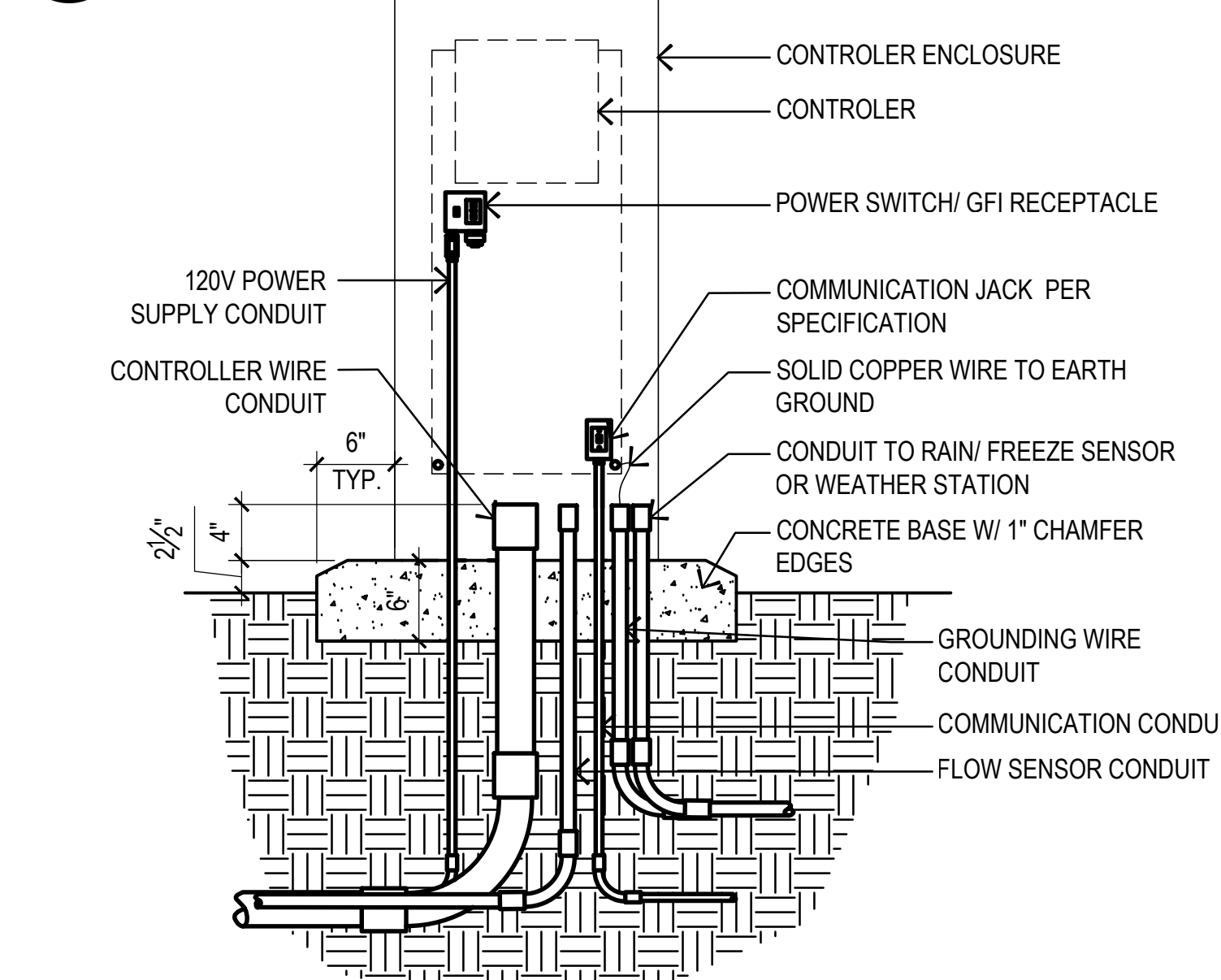
**L-934 QUICK COUPLING VALVE**  
NTS



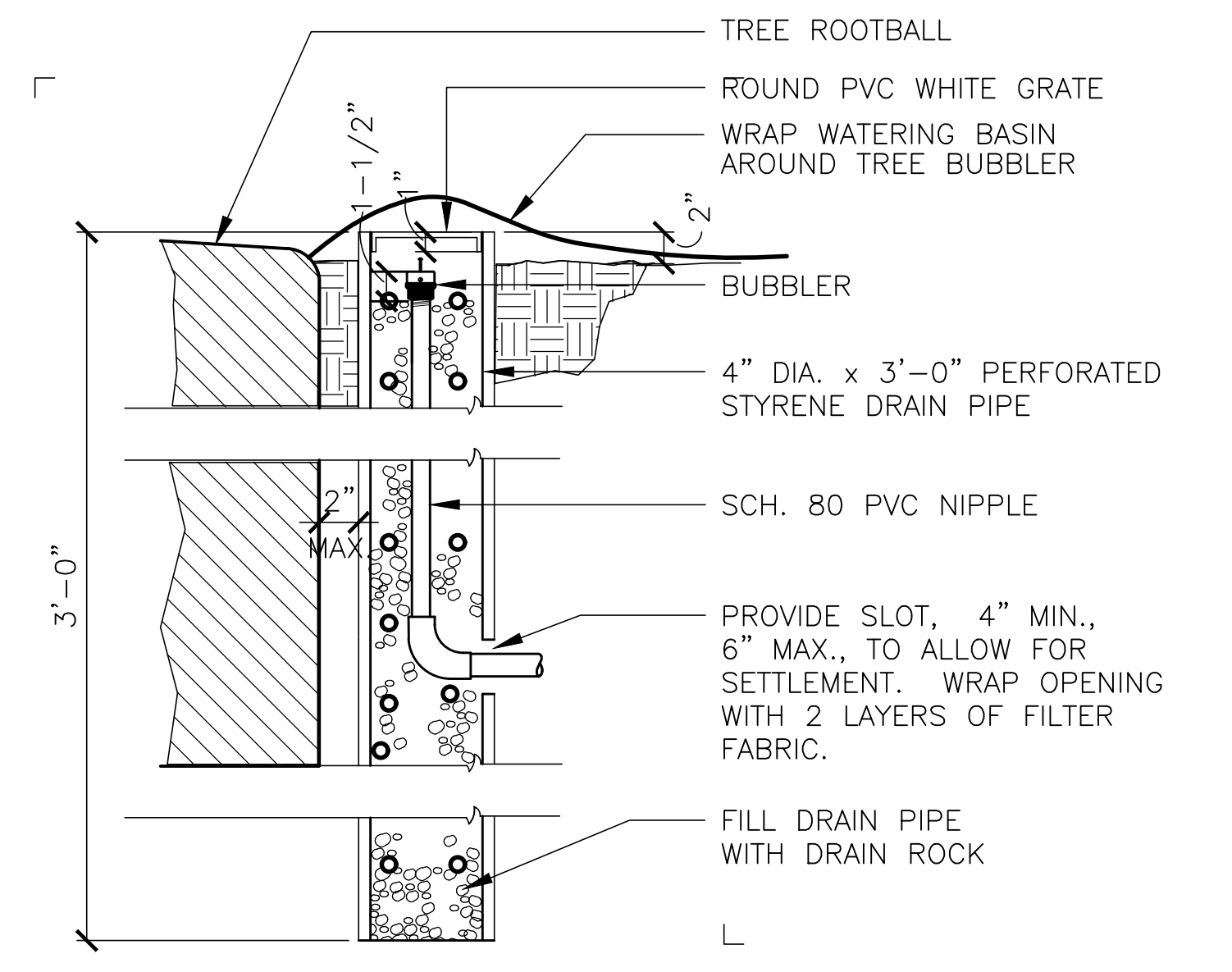
**L-935 BUBBLER ON FLEX HOSE**  
NTS



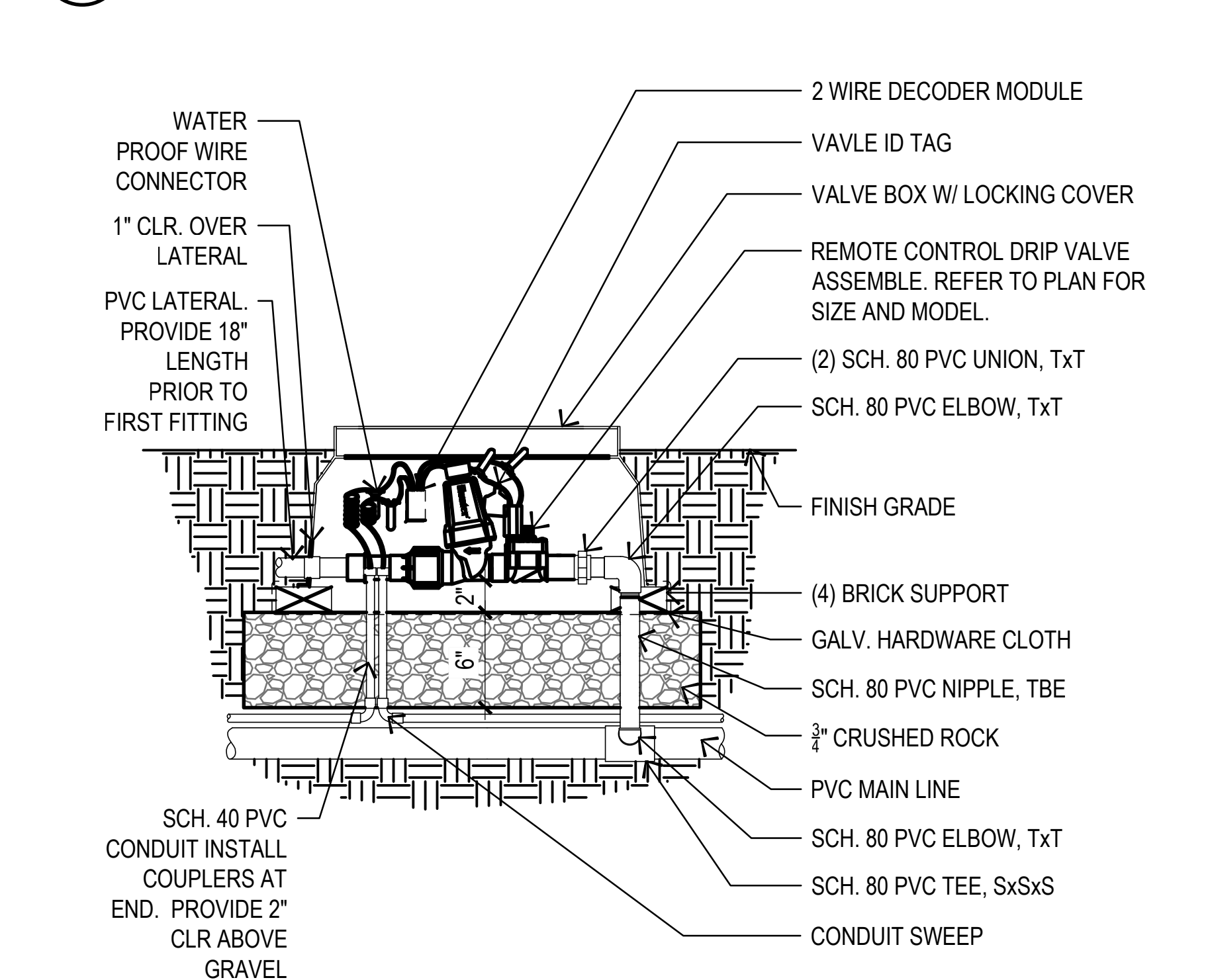
**L-936 REMOVE CONTROL VALVE**  
NTS



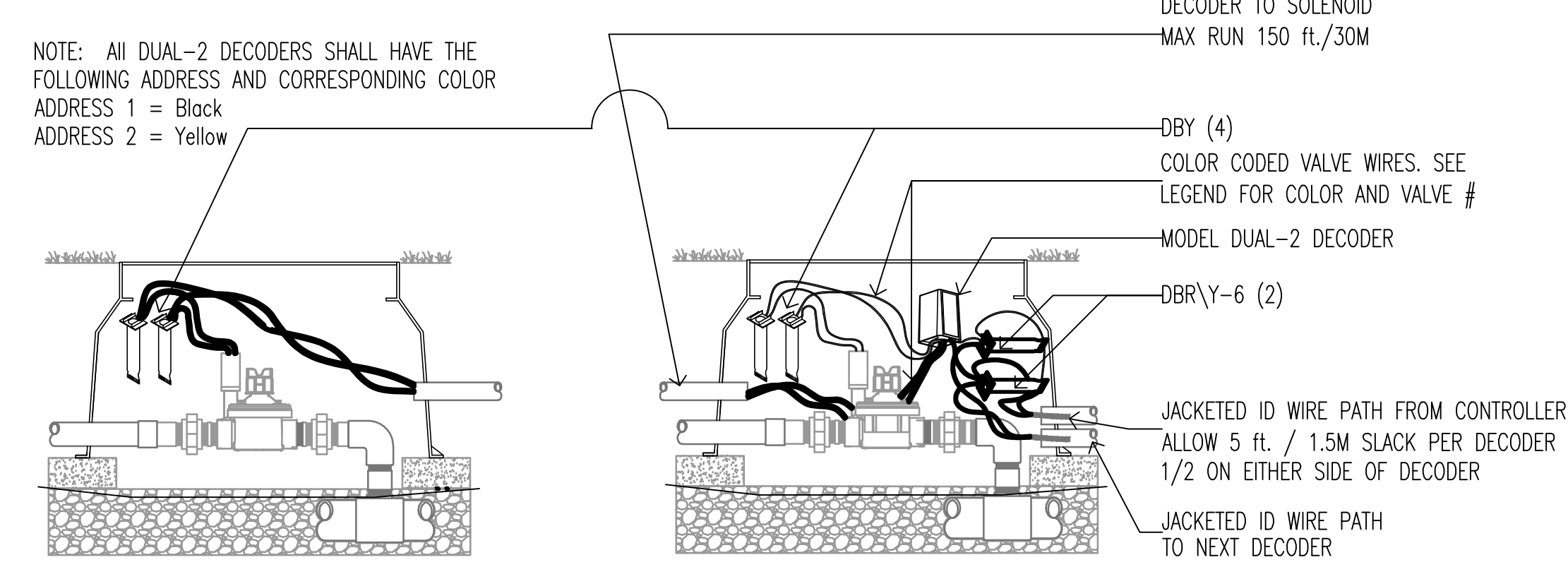
**L-937 CONTROLLER EXTERIOR PEDESTAL**  
NTS



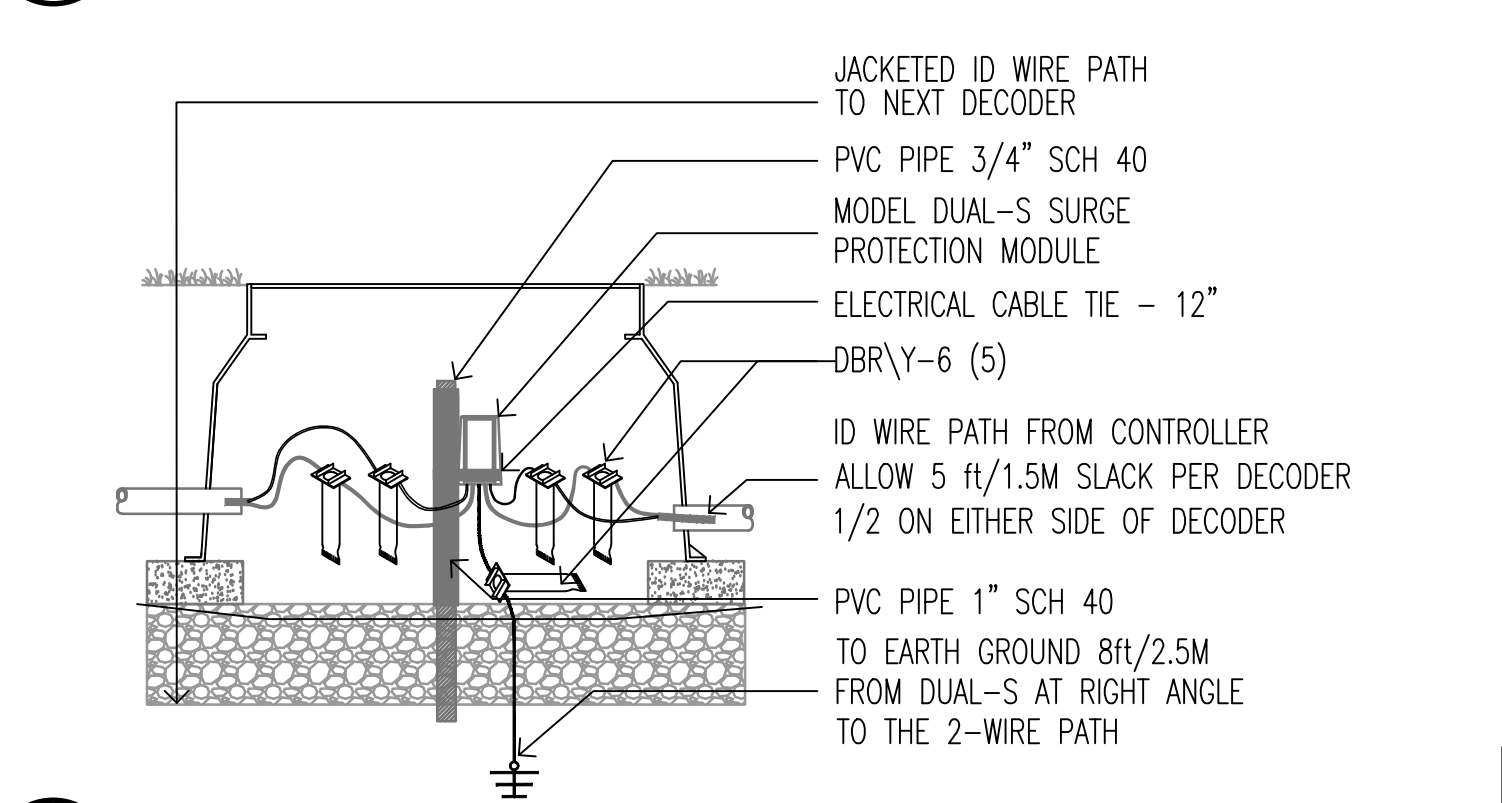
**L-938 DEEP WATERING TREE BUBBLER**  
NTS



**L-939 REMOTE CONTROL DRIP VALVE DRIP**  
NTS



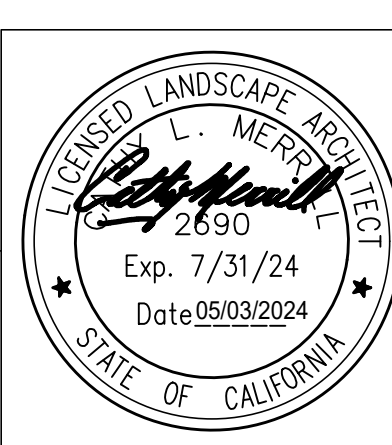
**L-940 2 WIRE DECODER WIRING**  
NTS



**L-941 2 WIRE SURGE PROTECTION WIRING AND GROUND**  
NTS

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ELEVATION DATUM NAVD88 +100.00'



<b>Startec</b>			
Merrill Morris Partners			
PROJECT ENGINEER	B WONG	DRAWN	V YUAN
PROJECT MANAGER	T BROWN	DESIGNED	J BECKMAN
APPROVED		CHECKED	J BECKMAN
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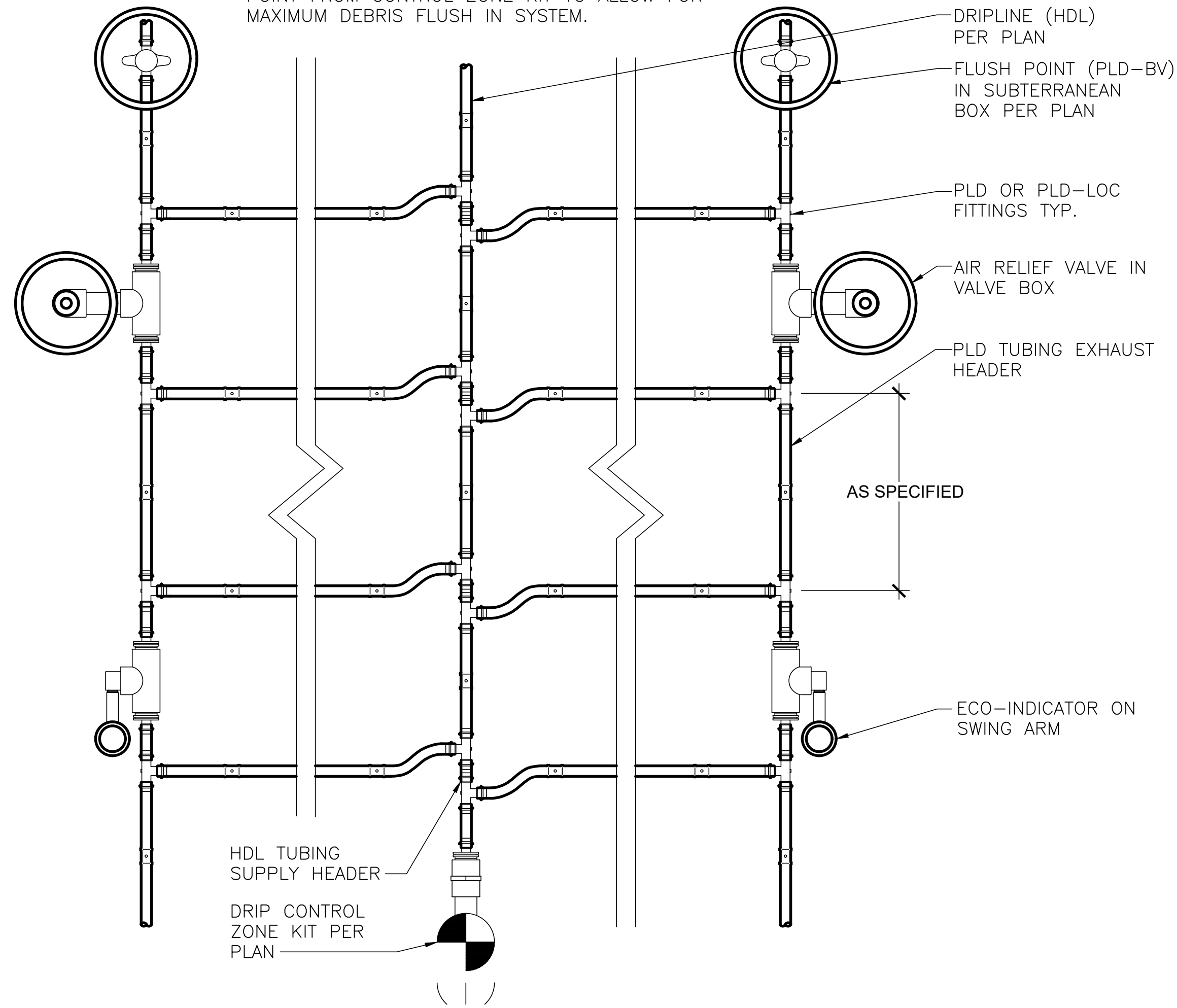
<b>CONTRACT NO. DB-132</b>			
CITY AND COUNTY OF SAN FRANCISCO <b>PUBLIC UTILITIES COMMISSION</b> INFRASTRUCTURE DIVISION ENGINEERING MANAGEMENT BUREAU			
WASTEWATER ENTERPRISE TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY			
TIF GENERAL			
<b>STANDARD IRRIGATION DETAILS 2 OF 4</b>			
CHECKED / APPROVED	DRAWN		
SECTION MANAGER	DESIGNED		
WWE OPERATIONS MANAGER	SCALE	DATE	
	NTS	05/03/2024	
APPROVED	APPROVED		
MANAGER, ENGINEERING MANAGEMENT BUREAU		WWE ENGINEERING MANAGER	
PLAN NO.	DRAWING / FILE NO.	REVISION NO.	
<b>L-0112</b>		<b>0</b>	



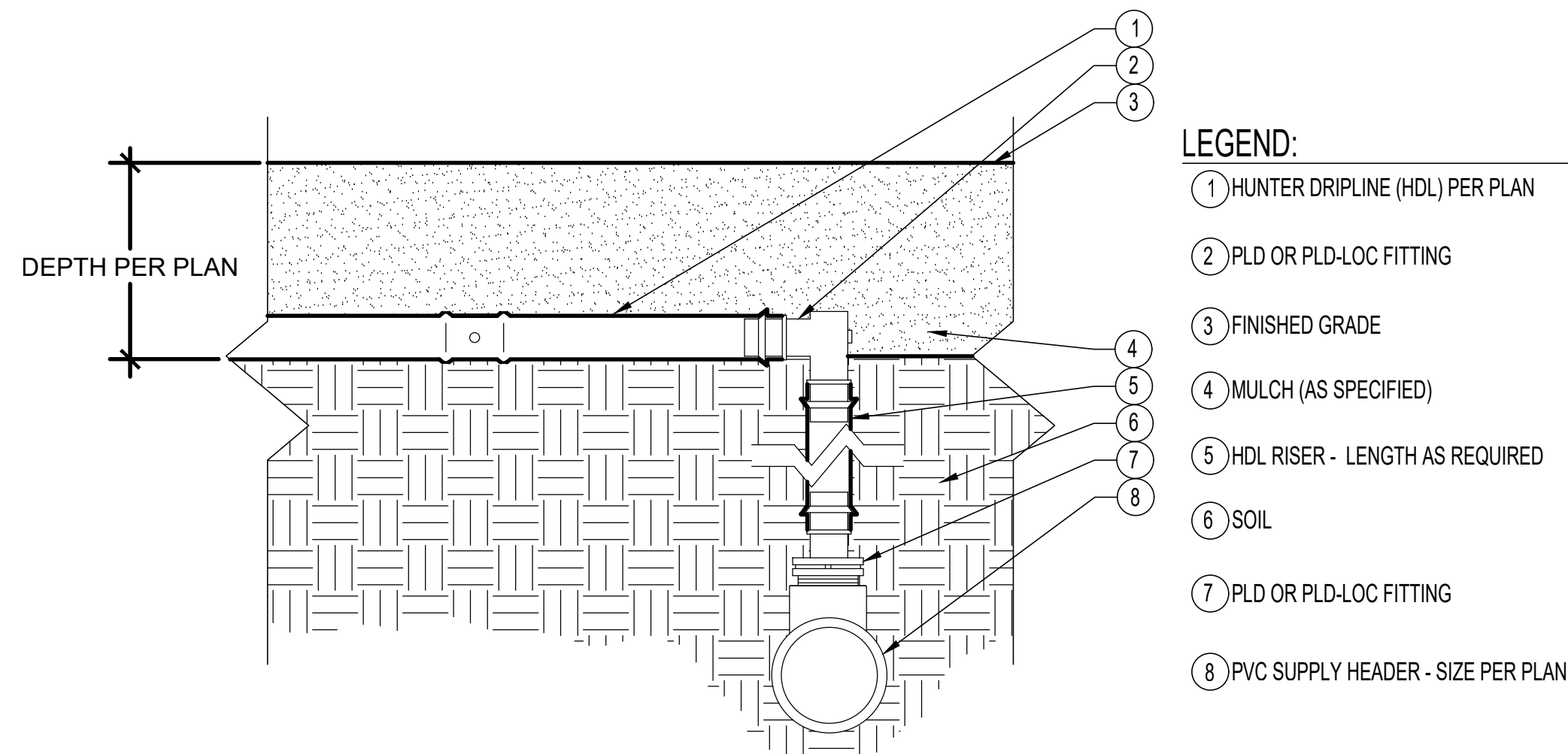
ACCOMMODATE DIFFERENCES IN GRADE.

ECO-INDICATOR TO BE INSTALLED AT OPTIMAL FURTHEST POINT FROM CONTROL ZONE KIT IN CLEAR VIEW WHEN POPPED UP.

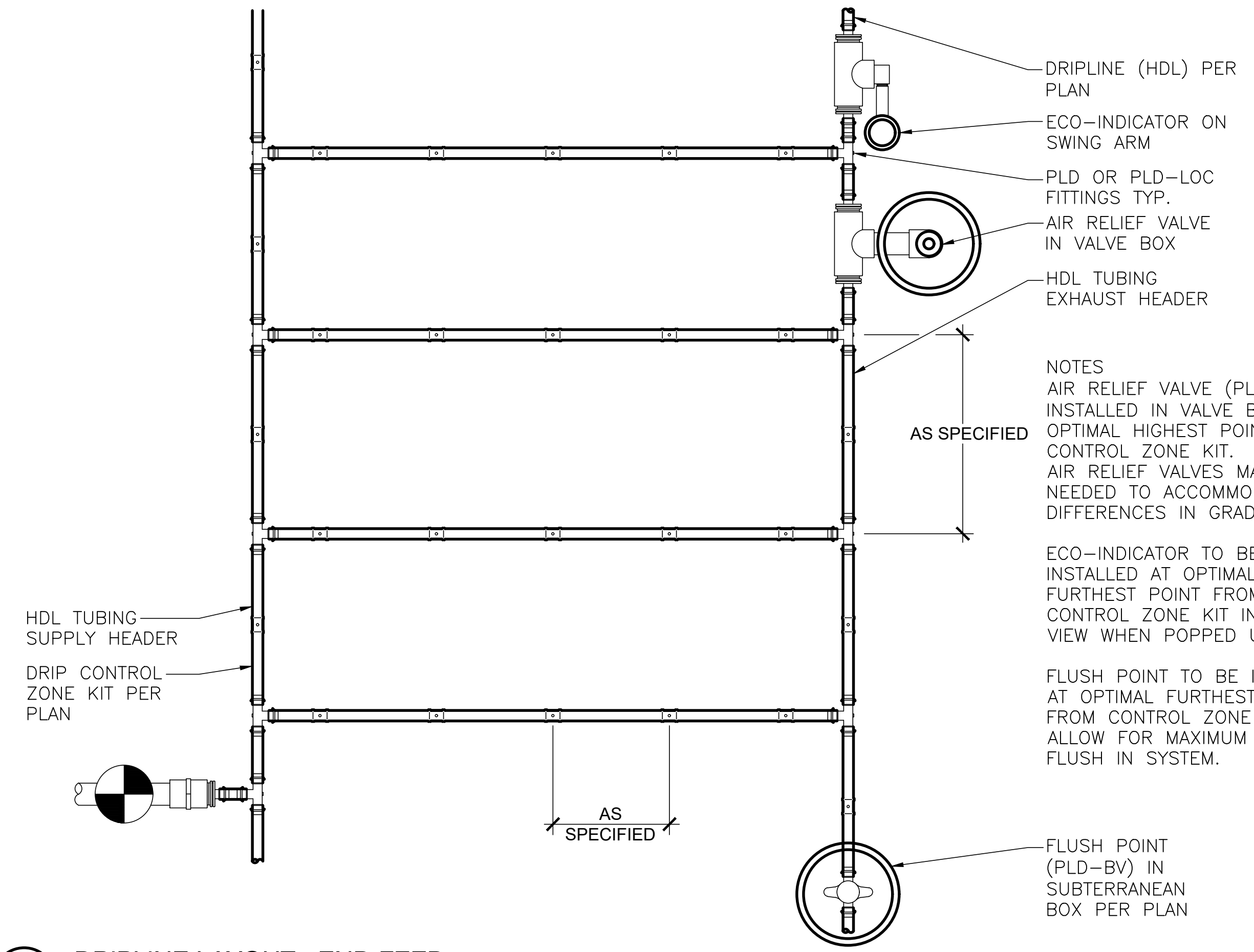
FLUSH POINT TO BE INSTALLED AT OPTIMAL FURTHEST POINT FROM CONTROL ZONE KIT TO ALLOW FOR MAXIMUM DEBRIS FLUSH IN SYSTEM.



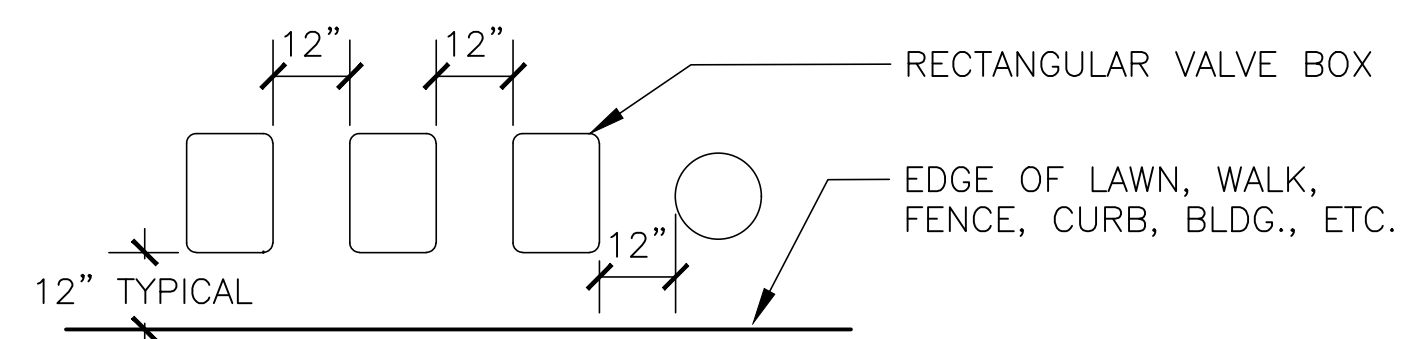
**L-942** DRIPLINE LAYOUT - CENTER FEED  
NTS



**L-944** DRIPLINE CONNECTION  
NTS



**L-943** DRIPLINE LAYOUT - END FEED  
NTS



- NOTES:
- CENTER VALVE BOX OVER REMOTE CONTROL VALVE TO FACILITATE SERVICING VALVE.
  - SET BOXES 2" ABOVE FINISH GRADE GROUNDCOVER / SHRUB AREA.
  - SET REMOTE CONTROL VALVE AND VALVE BOX ASSEMBLY IN GROUNDCOVER / SHRUB AREA.
  - SET BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO EDGE OF LAWN, WALL, FENCE, CURB, ETC.
  - AVOID HEAVILY COMPACTING SOIL AROUND VALVE BOXES TO PREVENT COLLAPSE AND DEFORMATION OF VALVE BOX SIDES.
  - INSTALL EXTENSION BY VALVE BOX MANUFACTURER AS REQUIRED TO COMPLETELY ENCLOSE ASSEMBLY FOR EASY ACCESS.

**L-945** VALVE BOX LAYOUT  
NTS

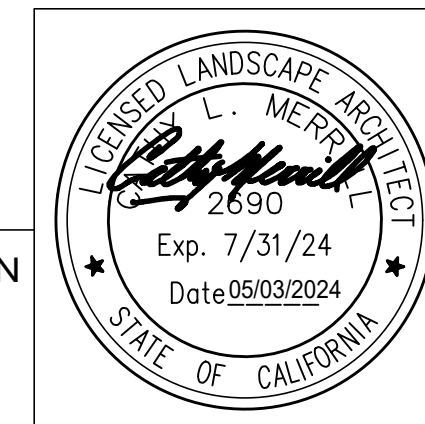
NOTES  
AIR RELIEF VALVE (PLD-AVR) INSTALLED IN VALVE BOX AT OPTIMAL HIGHEST POINT FROM CONTROL ZONE KIT. MULTIPLE AIR RELIEF VALVES MAY BE NEEDED TO ACCOMMODATE DIFFERENCES IN GRADE.

ECO-INDICATOR TO BE INSTALLED AT OPTIMAL FURTHEST POINT FROM CONTROL ZONE KIT IN CLEAR VIEW WHEN POPPED UP.

FLUSH POINT TO BE INSTALLED AT OPTIMAL FURTHEST POINT FROM CONTROL ZONE KIT TO ALLOW FOR MAXIMUM DEBRIS FLUSH IN SYSTEM.

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PROJECT MANAGER	T BROWN	DESIGNED	J BECKMAN
APPROVED		CHECKED	J BECKMAN
NO.	DATE	DESCRIPTION	BY
REVISIONS			

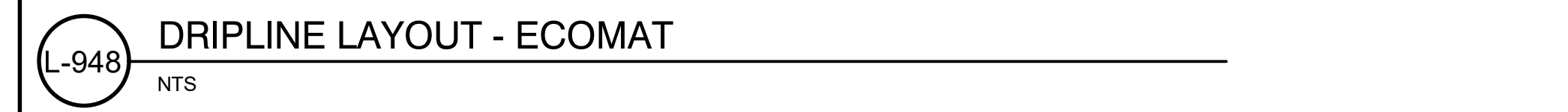
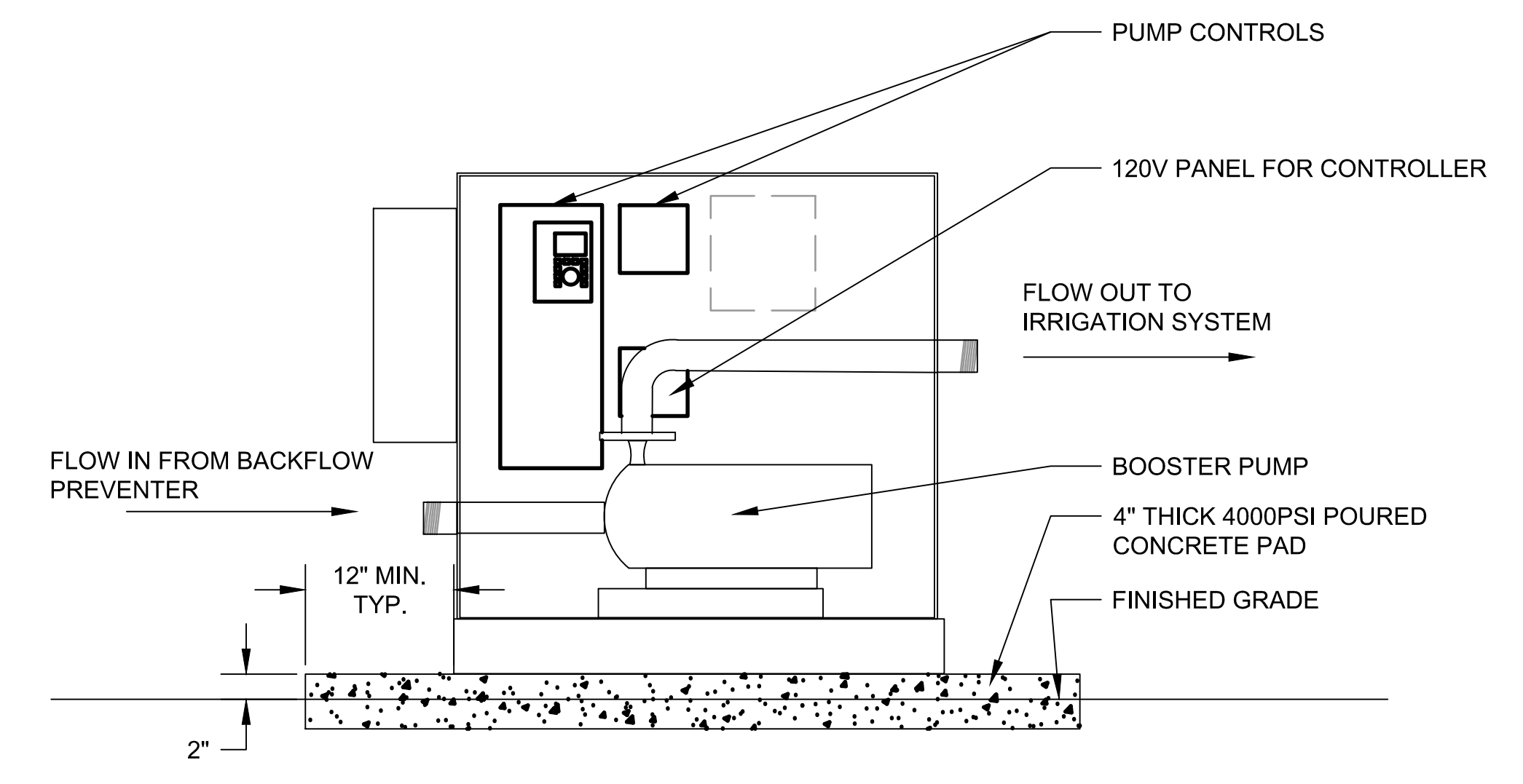
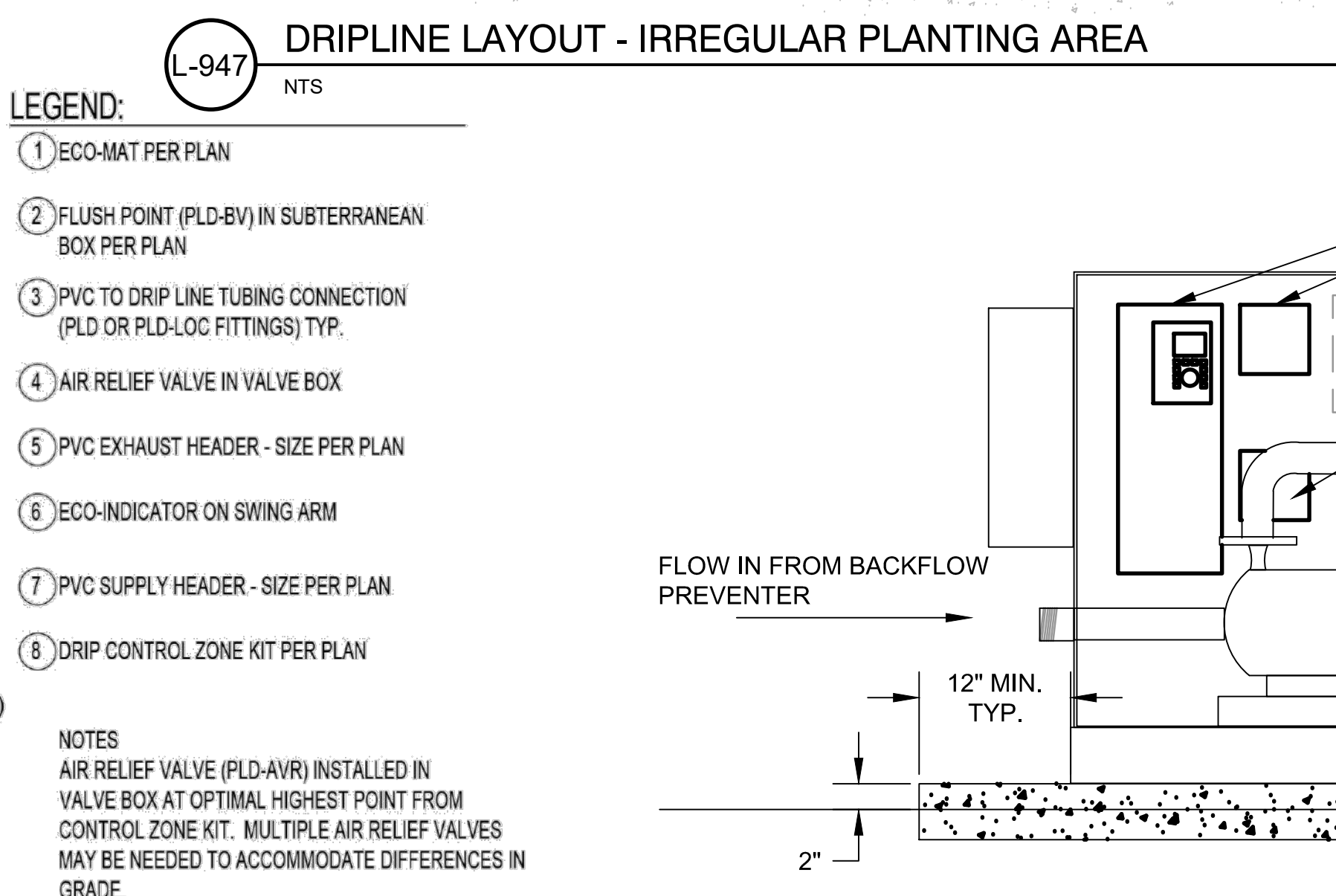
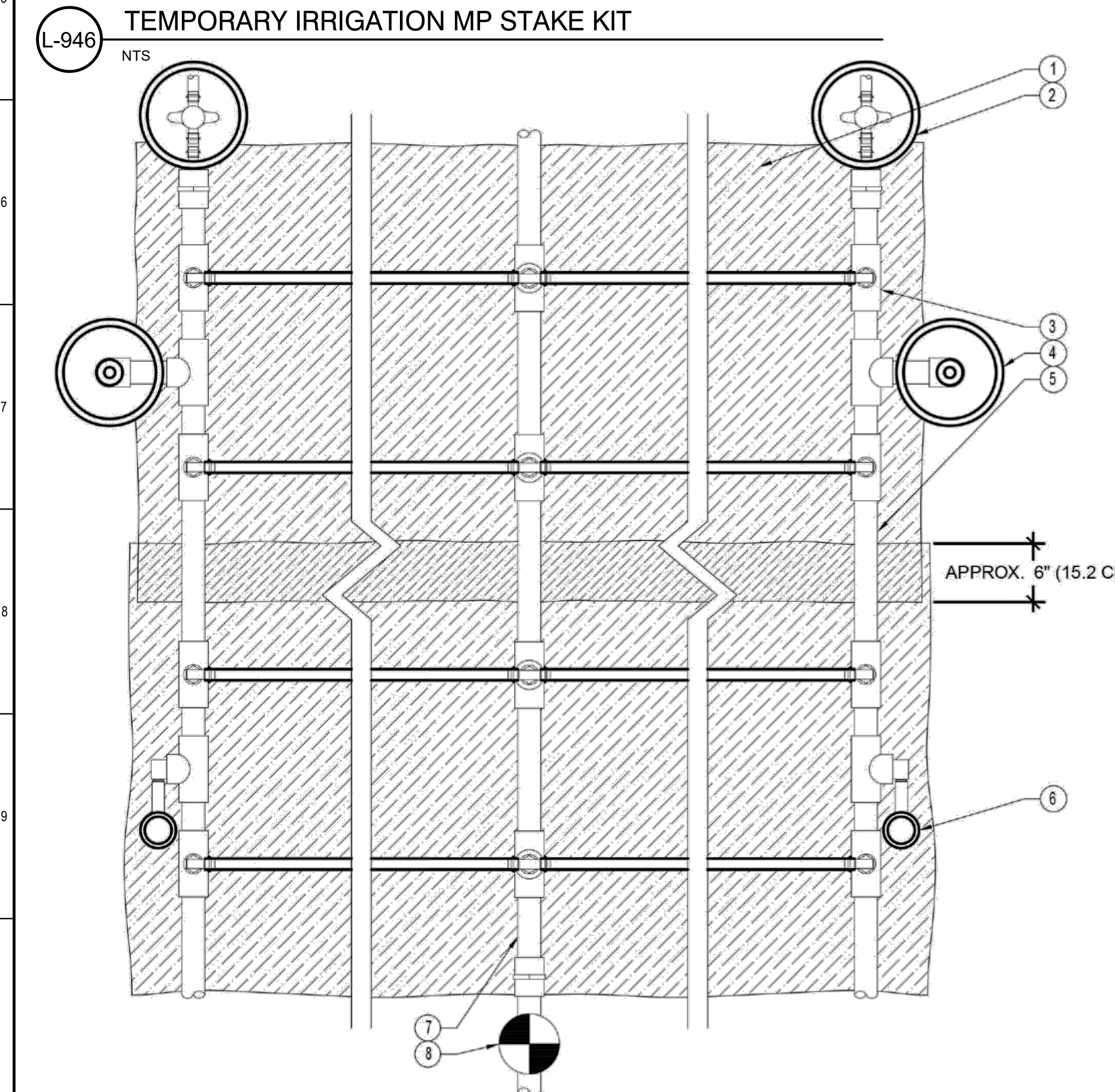
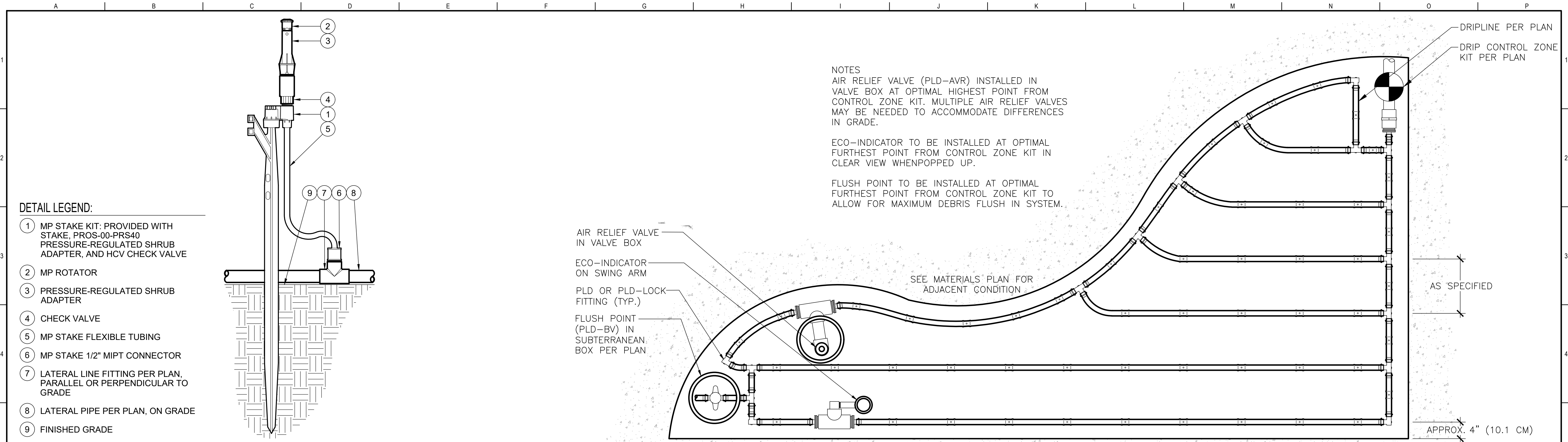


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<b>CONTRACT NO. DB-132</b>			
CITY AND COUNTY OF SAN FRANCISCO <b>PUBLIC UTILITIES COMMISSION</b> INFRASTRUCTURE DIVISION ENGINEERING MANAGEMENT BUREAU			
WASTEWATER ENTERPRISE TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY			
TIF GENERAL			
<b>STANDARD IRRIGATION DETAILS 3 OF 4</b>			
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SECTION MANAGER	DESIGNED		
WWE OPERATIONS MANAGER	SCALE	NTS	DATE 05/03/2024
APPROVED	APPROVED		
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<b>L-0113</b>		<b>0</b>	





**CIVIC DESIGN REVIEW**

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 WASTEWATER ENTERPRISE  
 TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY  
 TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY

**TIF GENERAL**  
**STANDARD IRRIGATION DETAILS 4 OF 4**

PROJECT ENGINEER	B WONG	DRAWN	V YUAN
PROJECT MANAGER	T BROWN	DESIGNED	J BECKMAN
APPROVED		CHECKED	J BECKMAN

**MANAGER, ENGINEERING MANAGEMENT BUREAU**  
**WWE ENGINEERING MANAGER**

**L-0114**  
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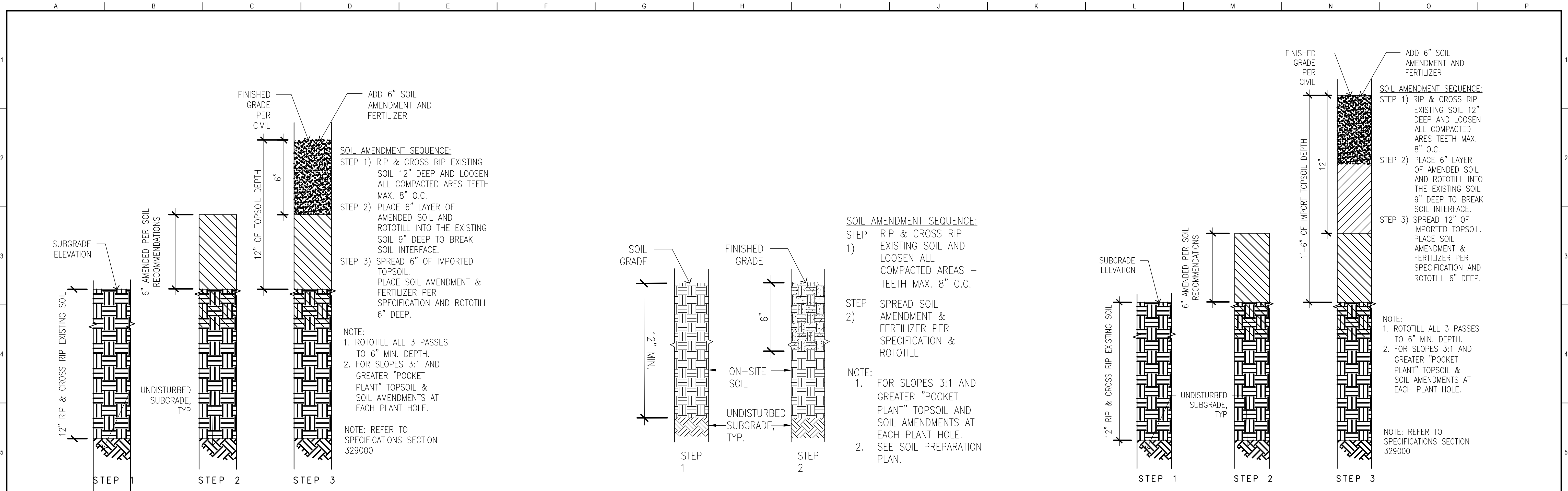
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**REVISIONS**

**NO. DATE DESCRIPTION BY APPR**





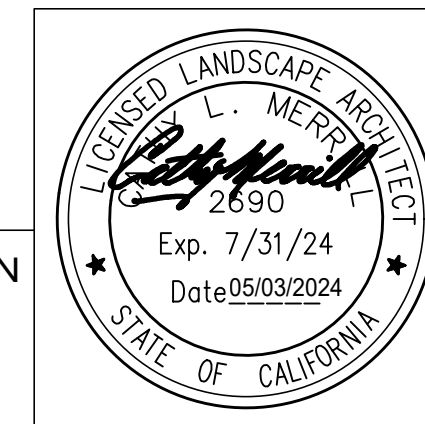
**L-950** SOIL AMENDMENT - 6 INCH  
NTS

**L-951** SOIL AMENDMENT - ON SITE  
NTS

**L-952** SOIL AMENDMENT - 12 INCH  
NTS

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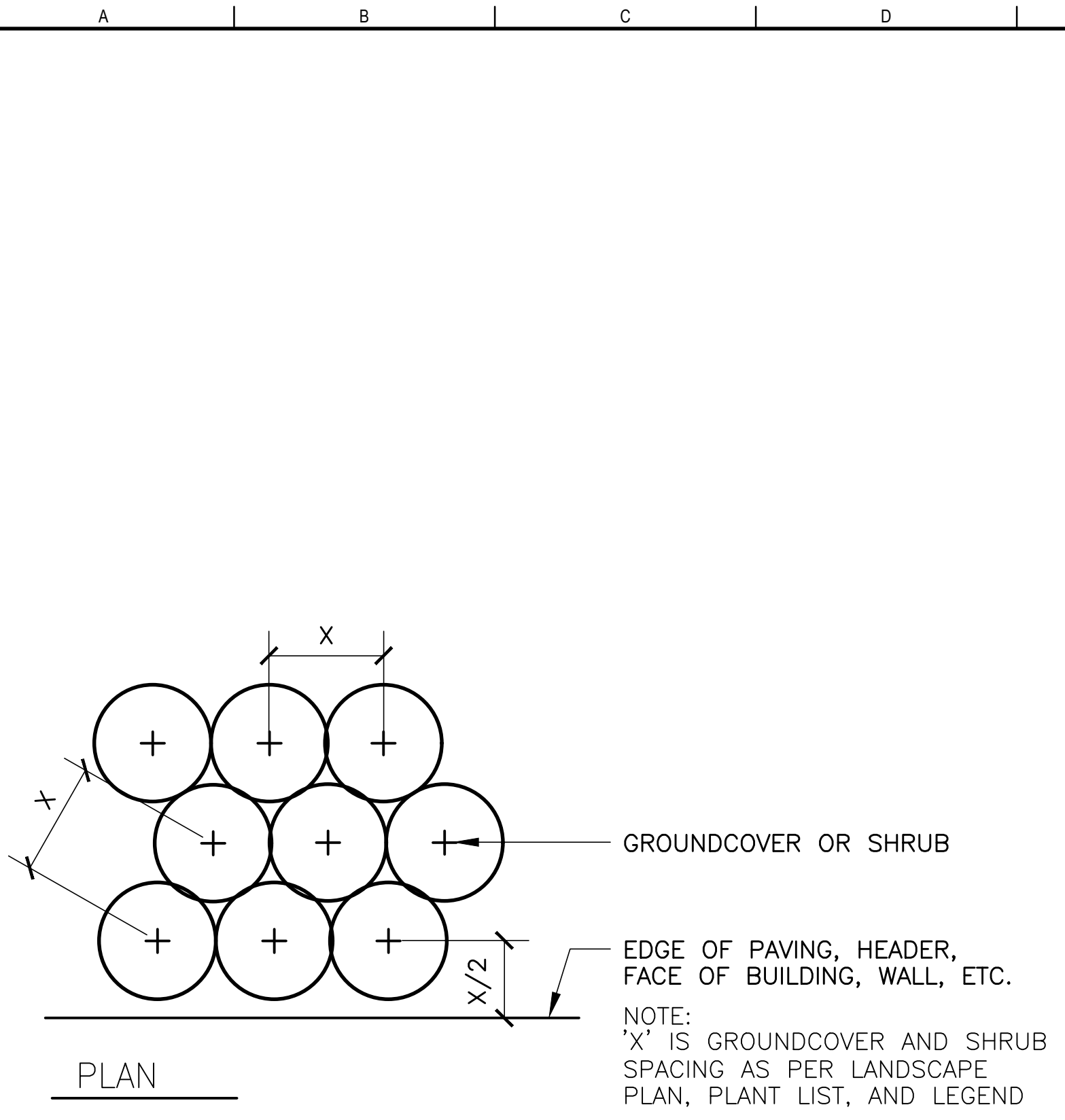
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DATUM  
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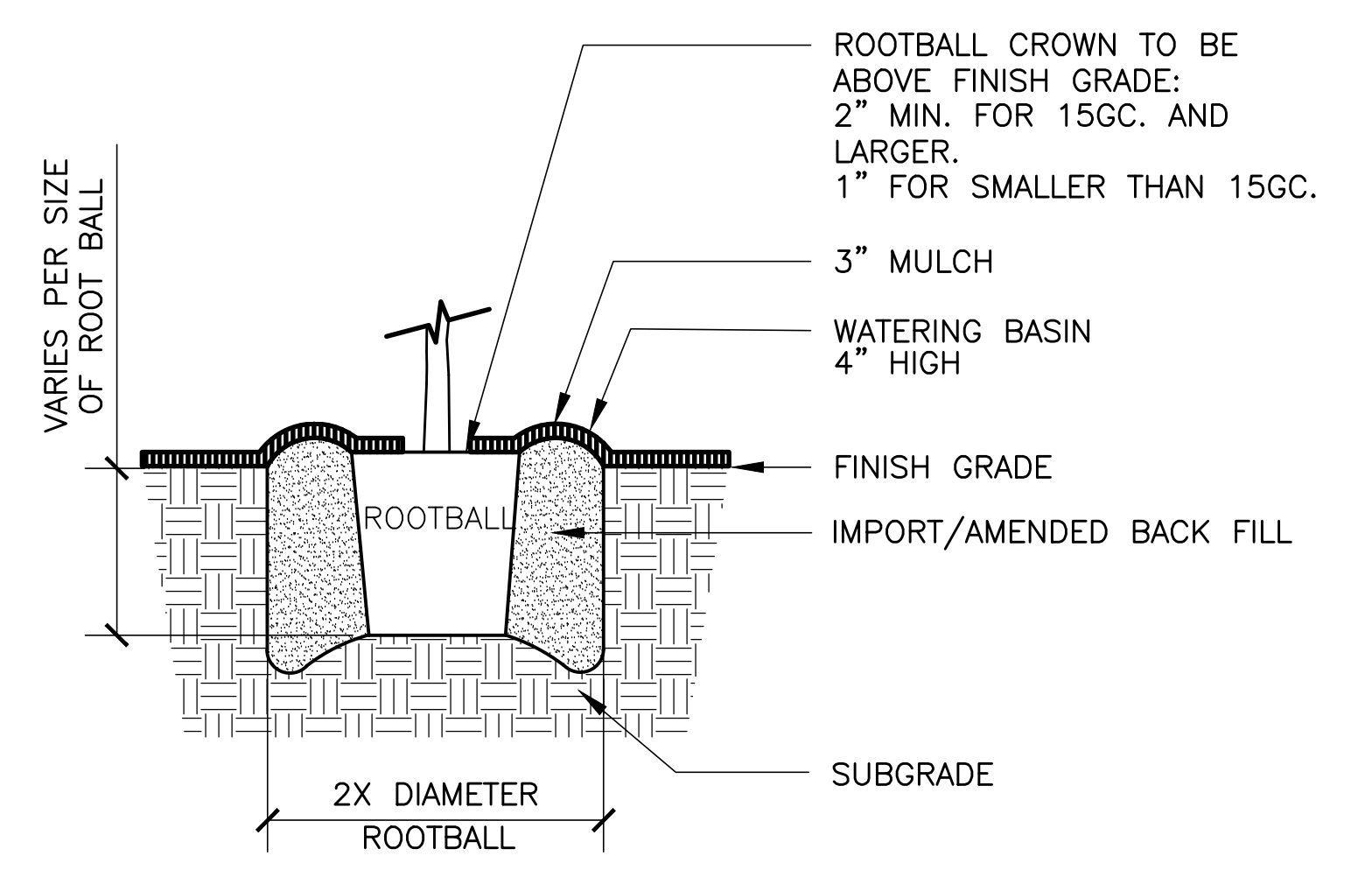
<b>Stantec</b>			
<b>Merrill</b> Merrill Morris Partners			
PROJECT ENGINEER	B WONG	DRAWN	V YUAN
PROJECT MANAGER	T BROWN	DESIGNED	J BECKMAN
APPROVED		CHECKED	J BECKMAN
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<b>PUBLIC UTILITIES COMMISSION</b>			
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TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY			
TIF GENERAL			
<b>STANDARD SOIL AMENDMENT DETAILS</b>			
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WWE OPERATIONS MANAGER	SCALE	NTS	DATE
APPROVED	APPROVED		
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<b>L-0120</b>		<b>0</b>	

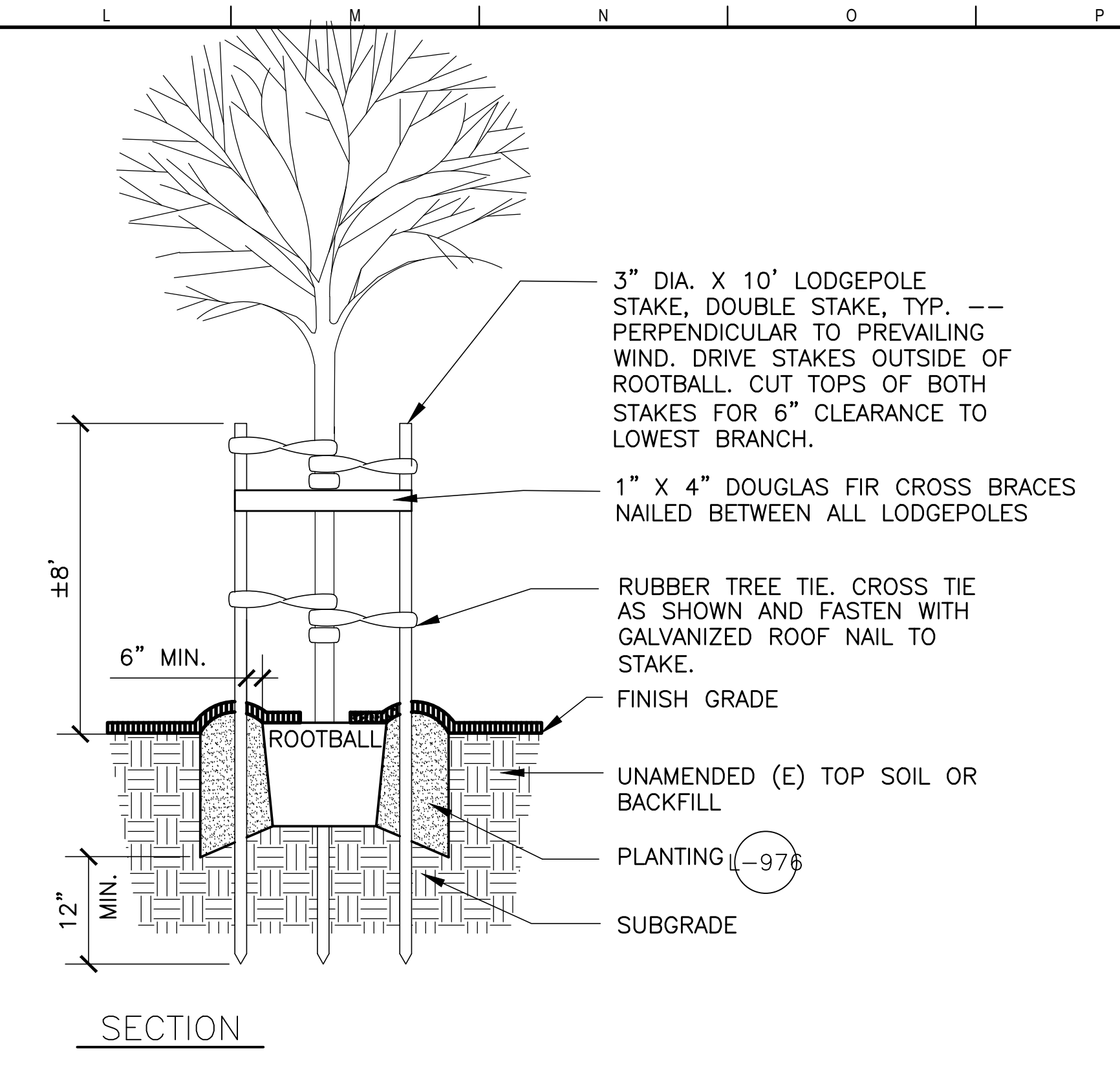




**L-975** GROUNDCOVER AND SHRUB SPACING  
NTS



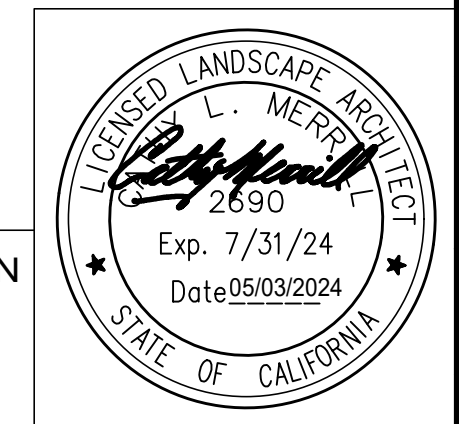
**L-976** PLANTING  
NTS



**L-977** TREE STAKING AT GRADE  
NTS

**CIVIC DESIGN REVIEW**

<b>Stantec</b>		<b>Merrill Morris Partners</b>	
PROJECT ENGINEER	B WONG	DRAWN	V YUAN
PROJECT MANAGER	T BROWN	DESIGNED	J BECKMAN
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PLAN NO.	DRAWING / FILE NO.	REVISION NO.	
<b>L-0130</b>		<b>0</b>	



**MATERIAL SHEET NOTES**

- REFER TO AREA 555 DRAWINGS FOR WETLAND DESIGN.
- SEE CIVIL DRAWING FOR CURBS, GUTTERS, CURB RAMPS ROADWAY PAVING, TRAFFIC SIGNAGE, PARKING STRIPING, UTILITIES, ADA PARKING.
- SET ALL UTILITIES BOXES IN PAVING FLUSH WITH FINISH GRADE.

**SITE LEGEND**

SYMBOL	DESCRIPTION
	PROPERTY LINE
	LIMIT OF WORK
	MATCH LINE
	(E) CONDITIONS, SEE TOPOGRAPHIC SURVEY

**MATERIAL LEGEND**

SYMBOL	KEY	DESCRIPTION
	L-900	CONC PAVING TYPE C1: PEDESTRIAN COLOR: NATURAL W/ LAMP BLACK FINISH: MEDIUM BROOM
		AC PAVING: VEHICULAR AREA, SEE CIVIL DWGS
	L-911	FENCE TYPE 1: SECURITY ENCLOSURE
	L-908	FENCE TYPE 2: WETLAND FENCE, LAYOUT TO BE LOCATED MIN. 4' FROM WETLAND EDGE, LAYOUT TO BE DETERMINED AND REVIEWED IN THE FIELD
	L-912	GATE TYPE 1: DOUBLE SWING MAINTENANCE GATE, 12' WIDE
	L-907	GATE TYPE 2: SINGLE WETLAND GATE, 4' WIDE
	L-913	GATE TYPE 3: SLIDING VEHICULAR GATE
	L-914	GATE TYPE 4: PEDESTRIAN GATE
	L-901	REDWOOD HEADER, SEE PLANS FOR LOCATION.
	L-906	SIGN WALL COLOR: TO MATCH BUILDING MATERIAL FINISH: TO MATCH BUILDING MATERIAL
		PLANTING
		DETENTION BASIN, SEE CIVIL DRAWINGS
		GRAVEL PATH, 3/4" CLEAN CRUSHED DRAIN ROCKS, SEE CIVIL DRAWING FOR DETAILS.
	L-915	CHALLENGING STATION, SEE I&C DRAWINGS FOR DETAILS
	L-916	DETENTION AND WETLAND SIGN
		PROPOSED TREES

**CONTRACT NO. DB-132**

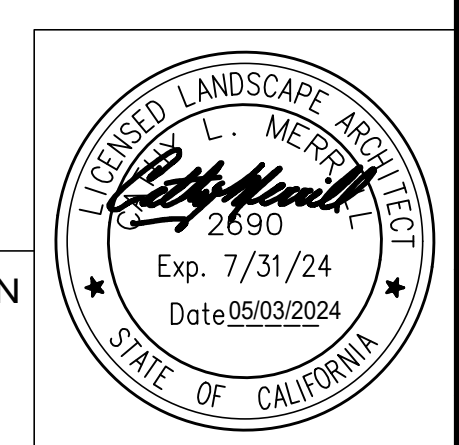
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**TIF GENERAL**  
**LANDSCAPE MATERIALS LEGEND**

CHECKED / APPROVED	DRAWN
DESIGNED	DESIGNED
WWE OPERATIONS MANAGER	SCALE 1"=20'-0"
DATE 05/03/2024	DATE
APPROVED	APPROVED
MANAGER, ENGINEERING MANAGEMENT BUREAU	WWE ENGINEERING MANAGER
PLAN NO. <b>L-1000</b>	DRAWING / FILE NO.
REVISION NO. <b>0</b>	

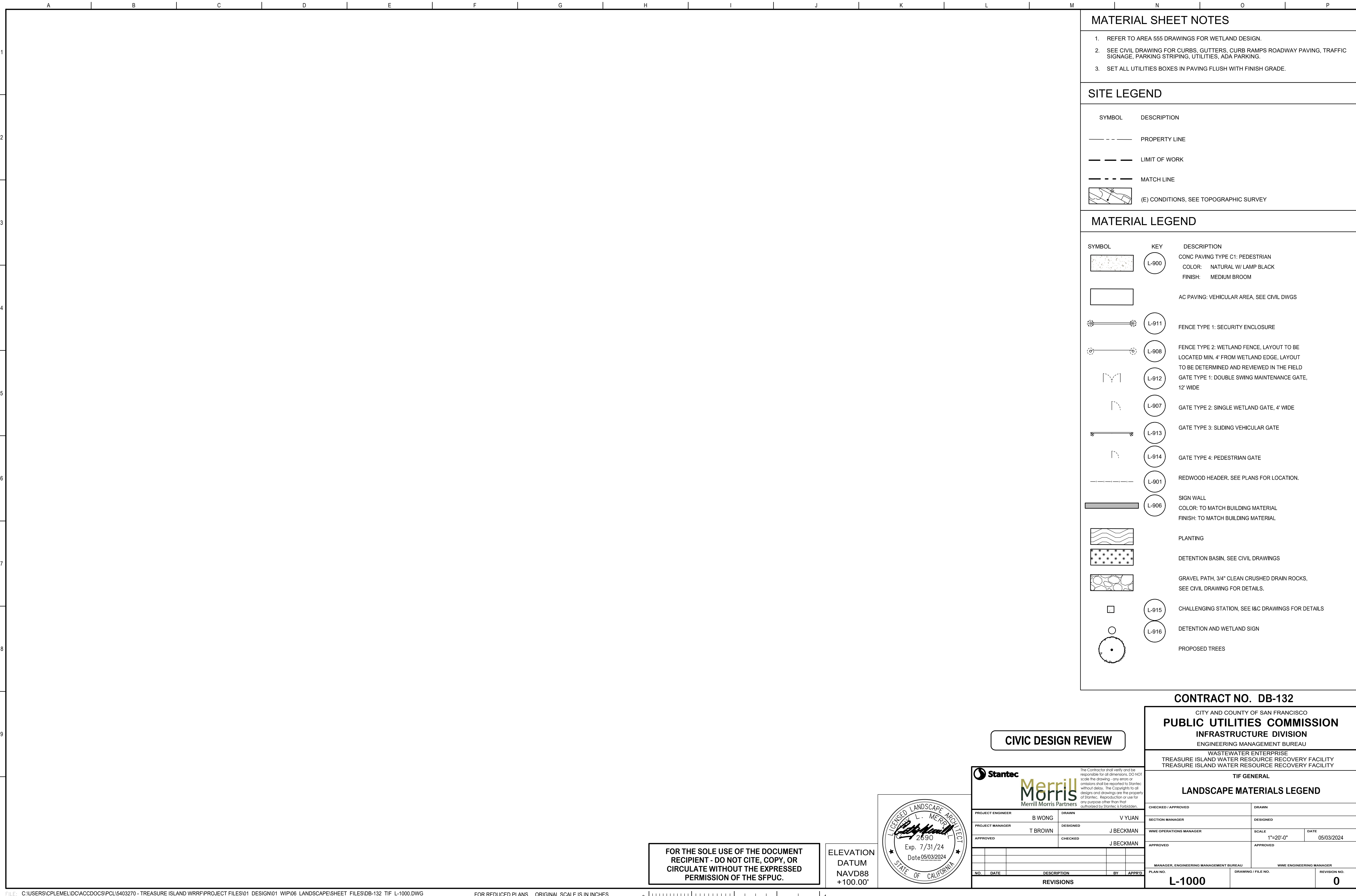
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PROJECT MANAGER	T BROWN	DESIGNED	J BECKMAN
APPROVED	J BECKMAN	CHECKED	J BECKMAN
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**SITE LEGEND**

SYMBOL	DESCRIPTION
	PROPERTY LINE
	LIMIT OF WORK
	MATCH LINE
	(E) CONDITIONS, SEE TOPOGRAPHIC SURVEY

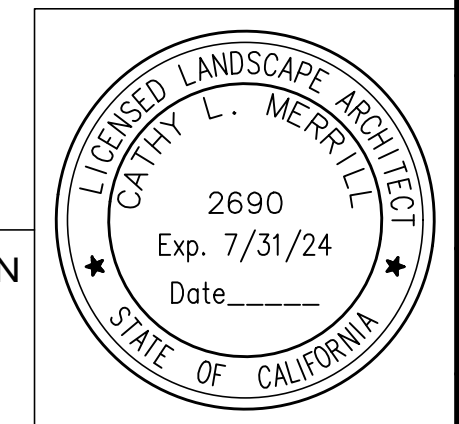
**SOIL PREPARATION LEGEND**

SYMBOL	KEY	DESCRIPTION
	L-952	PLANTING SOIL, 12" IMPORT FOR GROUND COVER, GRASSES, AND SHRUBS
	L-977	PLANTING SOIL AT TREE PLANTING
		STORMWATER TREATMENT SOIL, PER CIVIL SPECIFICATIONS, 18" DEEP, PER SF WATER STDS, SEE CIVIL DRAWING FOR SOIL LAYERING
	L-950	PLANTING SOIL FOR HYDROSEEDING AREA 6" TOP SOIL PLUS 6" AMENDED SOIL TO GET 12" TOTAL SOIL DEPTH.

**CIVIC DESIGN REVIEW**

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APPROVED		CHECKED	J BECKMAN
NO.	DATE	DESCRIPTION	BY
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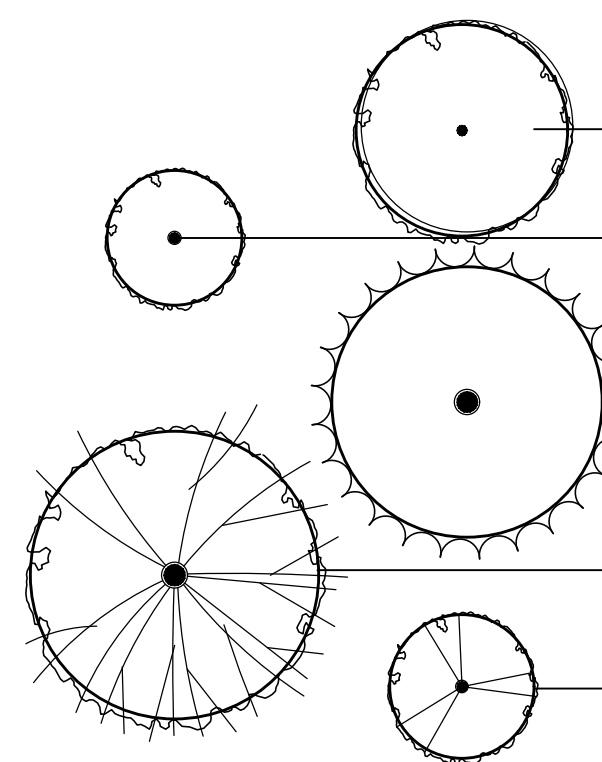
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<b>SOIL PREPARATION LEGEND</b>	
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SECTION MANAGER	DESIGNED
WWE OPERATIONS MANAGER	SCALE
APPROVED	DATE
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PLAN NO.	REVISION NO.
<b>L-1200</b>	<b>0</b>



PLANTING PALETTE

TREES



SPECIES	COMMON NAME	SYMBOL	TYPE	CONTAINER SIZE	SPACING (FT)	SIZE H X W	WUCOLS	CA NATIVE	QTY
AESCLUS CALIFORNICA	CALIFORNIA BUCKEYE	AES CAL	TREE	24" BOX	20	15-30 X 15-30 FT	VL	X	13
CERCIS OCCIDENTALIS	WESTERN REDBUD	CER OCC	TREE-M	24" BOX	SEE PLANS	10-20 X 10-15 FT	L	X	13
SALIX LASIOLEPIS	ARROYO WILLOW	SAL LAS	TREE	24" BOX	SEE PLAN	35 X 15 FT	H	X	2
QUERCUS AGRIFOLIA	COAST LIVE OAK	QUE AGR	TREE-L	24" BOX	30" MIN	16-65 X 16-32 FT	VL	X	7
LYONOTHAMUS FLORIBUNDUS SSP ASPLENIFOLIUS	SANTA CRUZ ISLAND IRONWOOD	LYO FLO	TREE	15" GAL	15	20-50 X 15-20 FT	L	X	17

COASTAL SCRUB

SPECIES	COMMON NAME	SYMBOL	TYPE	CONTAINER SIZE	SPACING (FT)	SIZE H X W	WUCOLS*	NATIVE	QTY
BROMUS CARINATUS	CALIFORNIA BROME	BRO CAR	GRASS	SEED MIX	10%	1.5-3.5 X 0.5 FT	VL	X	9LBI/ACRE
SISYRINCHIUM BELLUM	BLUE EYED GRASS	SIS BEL	PERENNIAL	SEED MIX	10%	1-4 X 3 FT	VL	X	2.5LBI/ACRE
DISTICHLIS SPICATA	SALT GRASS	DIS SPI	SEED MIX	SEED MIX	10%	1 X 1.5 FT	M	X	3LBI/ACRE
ELYMUS GLAUCUS	BLUE WILD RYE	ELY GLA	SEED MIX	SEED MIX	10%	1-5 X 1 FT	L	X	9LBI/ACRE
ELYMUS TRACHYCALYX *	CREeping WILD RYE	ELY TRI	SEED MIX	SEED MIX	10%	2 X 4 FT	M	X	7LBI/ACRE
CALIFORNIA POPPY	CALIFORNIA POPPY	ESC CAL	ANNUAL	SEED MIX	5%	0.5-1.5 X 1-2 FT	M	X	2LBI/ACRE
ESCHSCHOLZIA CALIFORNICA	PACIFIC FESCUE	FES MIC	GRASS	SEED MIX	10%	2.5 X 1 FT	VL	X	TBD
FESTUCA CALIFORNICA *	PACIFIC FESCUE	FES MIC	GRASS	SEED MIX	10%	2.5 X 1 FT	VL	X	TBD
FESTUCA IDAHOENSIS	BLUE FESCUE	FES IDA	GRASS	SEED MIX	10%	1 X 1 FT	VL	X	2LBI/ACRE
GRINDELIA STRICTA *	GUMWEED	GRI STR	SEED MIX	SEED MIX	10%	5-8 X 5 FT	L	X	1.5LBI/ACRE
LUPINUS BICOLOR	MINIATURE LUPINE	LUP BIC	PERENNIAL HERB	SEED MIX	10%	1 X 1 FT	L	X	3LBI/ACRE
NASSELLA PULCHRA *	PURPLE NEEDLE GRASS	STI PUL	GRASS	SEED MIX	5%	3 X 1.5 FT	LVL	X	4LBI/ACRE
ACHILLEA MILLEFOLIUM	COMMON YARROW	ACH MIL	SC/PERENNIAL	1 GAL	3	2-3 X 2-3	VL	X	110
ARTEMISIA CALIFORNICA	CALIFORNIA SAGEBRUSH	ART CAL	SHRUB-S	1 GAL	4	1-8 X 4 FT	VL	X	63
BACCHARIS PILLULARIS VAR CONSANGUINEA	COYOTE BUSH	BAC PIP	SHRUB	5 GAL	4	3.5-7 X 4 FT	L	X	45
CASTILLEJA AFFINIS SSP. AFFINIS	INDIAN PAINTBRUSH	CAS AFF	PERENNIAL	1 GAL	2	2 X 2 FT	L	X	169
CEANOTHUS THYRSIFLORUS	BLUEBLOSSOM CEANOTHUS	CEA THY	SHRUB	1 GAL	4	2-30 X 2-40 FT	L	X	55
ERICAMERIA ERICOIDES	MOCK HEATHER	ERI ERI	SHRUB	4" POT	3.5	2-3.5 X 3-4 FT	VL	X	40
ERIOGONUM LATIFOLIUM	COAST BUCKWHEAT	ERI LAT	PERENNIAL	1 GAL	3	1.5-2.5 X 2-3 FT	VUL	X	160
ERIOPHYLLUM STAECHADIFOLIUM	SEASIDE WOOLLY SUNFLOWER	ERI STA	PERENNIAL SHRUB	5 GAL	4	2-5 X 4-5 FT	VUL	X	36
FRANGULA CALIFORNICA	COFFEEBERRY	FRA CAL	SHRUB	5 GAL	5	6-15 X 5-15 FT	VUL	X	19
HETEROMELES ARBUTIFOLIA	TOYON	HET ARB	SHRUB	1 GAL	8	6-30 X 10-15 FT	VUL	X	42
LUPINUS ARBOREUS	COASTAL BUSH LUPINE	LUP ARB	SHRUB	4" POT	4	3.5-7 X 4 FT	VUL	X	21
LUPINUS CHAMISSONIS	DUNE BUSH LUPINE	LUP CHA	SHRUB	4" POT	3	5-7 X 3 FT	VL	X	55
MIMULUS AURANTIACUS	MONKEY FLOWER	MIM AUR	SHRUB	1 GAL	4	3-5 X 5 FT	VUL	X	180
MYRICA CALIFORNICA	CALIFORNIA WAX MYRTLE	MYR CAL	SHRUB	5 GAL	10	6-30 X 20 FT	LM	X	102

DETENTION BASIN

SPECIES	COMMON NAME	SYMBOL	TYPE	CONTAINER SIZE	SPACING (FT)	SIZE H X W	WUCOLS*	NATIVE	QTY
ELYMUS GLAUCUS	BLUE WILD RYE	ELY GLA	GRASS	1 GAL	1	1-5 X 1 FT	L	X	9LBI/ACRE
ACHILLEA MILLEFOLIUM	COMMON YARROW	ACH MIL	SC/PERENNIAL	5 GAL	3	2-3 X 2-3	VL	X	9
CAREX TUMULICOLA	FOOTHILL SEDGE	CAR TUM	GRASS	1 GAL	3	2 X 3 FT	M	X	14
JUNCUS PATENS	CALIFORNIA GREY RUSH	JUN PAT	GRASS	1 GAL	3	1-3 X 3 FT	M	X	9
JUNCUS XIPHIODES	IRISLEAF RUSH	JUN XIP	GRASS	1 GAL	3	3 X 3 FT	H	X	2
MIMULUS AURANTIACUS	MONKEY FLOWER	MIM AUR	SHRUB	5 GAL	4	3-5 X 5 FT	VUL	X	7

EASTSIDE ROAD - HYDROSEED MIX

SPECIES	COMMON NAME	SYMBOL	TYPE	CONTAINER SIZE	SPACING (FT)	SIZE H X W	WUCOLS*	NATIVE	QTY
DESCHAMPSIA ELONGATA	SLENDER HAIR GRASS	DES ELO	GRASS	SEED MIX	25%	2 X 3 FT	L	X	SLBI/ACRE
ESCHSCHOLZIA CALIFORNICA	CALIFORNIA POPPY	ESC CAL	ANNUAL	SEED MIX	12.5%	0.5-1.5 X 1-2 FT	M	X	2LBI/ACRE
FESTUCA CALIFORNICA *	PACIFIC FESCUE	FES MIC	GRASS	SEED MIX	25%	2.5 X 1 FT	VL	X	TBD
HORDEUM BRACHYANTHERUM	MEADOW BARLEY	HOR BRA	GRASS	SEED MIX	25%	2-3 X 1 FT	L	X	SLBI/ACRE
NASSELLA PULCHRA *	PURPLE NEEDLE GRASS	STI PUL	GRASS	SEED MIX	12.5%	3 X 1.5 FT	LVL	X	4LBI/ACRE
ARTEMISIA CALIFORNICA	CALIFORNIA SAGEBRUSH	ART CAL	SHRUB-S	1 GAL	4	1-8 X 4 FT	VL	X	27
BACCHARIS PILLULARIS VAR CONSANGUINEA	COYOTE BUSH	BAC PIP	SHRUB	5 GAL	4	3.5-7 X 4 FT	L	X	13
CASTILLEJA AFFINIS SSP. AFFINIS	INDIAN PAINTBRUSH	CAS AFF	PERENNIAL	1 GAL	2	2 X 2 FT	L	X	107
CEANOTHUS THYRSIFLORUS	BLUEBLOSSOM CEANOTHUS	CEA THR	SHRUB	1 GAL	4	2-30 X 2-40 FT	L	X	27
ERICAMERIA ERICOIDES	MOCK HEATHER	ERI ERI	SHRUB	5 GAL	3.5	2-3.5 X 3-4 FT	VL	X	10
ERIOGONUM LATIFOLIUM	COAST BUCKWHEAT	ERI LAT	PERENNIAL	1 GAL	3	1.5-2.5 X 2-3 FT	VUL	X	33
ERIOPHYLLUM STAECHADIFOLIUM	SEASIDE WOOLLY SUNFLOWER	ERI STA	PERENNIAL SHRUB	1 GAL	4	2-5 X 4-5 FT	VUL	X	17
MIMULUS AURANTIACUS	MONKEY FLOWER	MIM AUR	SHRUB	1 GAL	4	3-5 X 5 FT	VUL	X	28

INSIDE FENCE PLANTING

SPECIES	COMMON NAME	SYMBOL	TYPE	CONTAINER SIZE	SPACING (FT)	SIZE H X W	WUCOLS*	NATIVE	QTY
ANDROMEDA POLIFOLIA 'BLUE ICE'	BLUE ICE BOG ROSEMARY	AND POL	SHRUB	1 GAL	2	0.3-1.5 X 1.5-2 FT	VL	X	146
ANIGOZANTHOS FLAVIDUS 'BUSH PEARL'	BUSH PEARL KANGAROO PAWS	ANI FLA	SHRUB	1 GAL	2	1.2 X 1.2 FT	VUL/M	X	30
ASPARAGUS DENSIFLORUS 'MYERS'	MYERS ASPARAGUS	MYE ASP	FERN	1 GAL	2	1-2.5 X 2 FT	L/M	X	123
CAREX TUMULICOLA	FOOTHILL SEDGE	CAR TUM	GRASS	1 GAL	3	2 X 3 FT	M	X	64
DIETES BICOLOR	AFRICAN IRIS	DIE IRI	PERENNIAL	1 GAL	3	3-4 X 2-3 FT	L	X	57
FESTUCA GLAUCA	BLUE FESCUE	FES GLA	GRASS	1 GAL	1	1 X 1 FT	VL	X	38
LEONOTIS LEONURUS	LION'S TAIL	LEO LEO	SHRUB	1 GAL	4	4-6 X 4-6 FT	VUL	X	24
LOMANDRA CONFERTIFOLIA	MAT RUSH	LOM CON	GRASS	1 GAL	3.5	1-4 X 1-4 FT	L	X	42
PHORMIUM 'AMAZING RED'	AMAZING RED N.Z. FLAX	PHO AMA	PERENNIAL	1 GAL	2	2 X 1-2 FT	L	X	98
RHAPHOLEPIS INDICA 'CLARA'	CLARA INDIAN HAWTHORN	RHA IND	SHRUB	1 GAL	4	3-5 X 3-5 FT	L/M	X	8
SALVIA LEUCANTHA 'MIDNIGHT'	MIDNIGHT SAGE	SAL LEU	SHRUB	1 GAL	4	3-4 X 4-6 FT	L	X	14

PLANTING NOTES

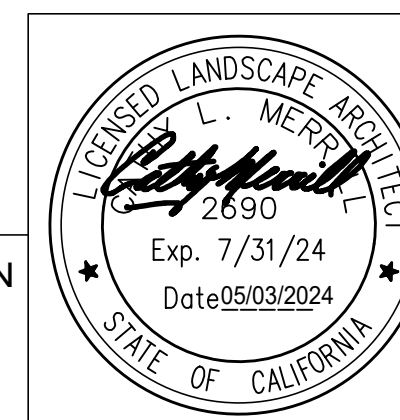
- ALL LANDSCAPING SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF SAN FRANCISCO REQUIREMENTS AND STANDARDS.
- CONTRACTOR TO VERIFY ALL SITE CONDITIONS AND UTILITY LOCATIONS.
- ALL PLANTS TO BE OF THE FINEST QUALITY AND FREE OF DISEASE OR DAMAGE. TREE LEADER SHALL NOT BE HEADED. PLANT COUNT IS FOR THE CONVENIENCE OF THE CONTRACTOR. IN CASE OF DISCREPANCIES, THE PLAN SHALL GOVERN. NOTIFY L.A. IMMEDIATELY FOR FURTHER DIRECTION WHEN DISCREPANCIES ARE NOTICED.
- PLANT MATERIAL LOCATIONS SHOWN ARE DIAGRAMMATIC AND MAY BE SUBJECT TO CHANGE IN THE FIELD BY OWNER'S REPRESENTATIVE. PLANT LOCATIONS ARE TO BE ADJUSTED IN THE FIELD AS NECESSARY TO SCREEN UTILITIES BUT NOT TO BLOCK SIGNS OR IMPEDE ACCESS OR ADJUST TO OTHER UNFORESEEN SITE CONDITIONS.
- CONTRACTOR SHALL CONTACT OWNER REPRESENTATIVE FOR OBSERVATIONS OF LANDSCAPE AND IRRIGATION.
- ALL TREES ARE TO BE STAKED OR GUYED PER DETAILS.
- APPLY A THREE INCH (3") LAYER OF MULCH IN ALL NON-TURF AND NON-GRASS/PLUG AREAS AND TREE/SHRUB BASINS. KEEP BARK SIX INCHES (6") AWAY FROM TREE CROWNS.
- TREES MUST HAVE AN UNCUIT LEADER THAT HAS A UNIFORM TAPER FROM BASE TO TIP. TREES MUST MEET AT LEAST NORMAL CALIPER AND HEIGHT FOR CONTAINER SIZE AS DEFINED BY AMERICAN STANDARD FOR NURSERY STOCK. OVERGROWN OR ROOT BOUND TREES ARE NOT ACCEPTABLE.
- GROUND COVER SHALL BE PLANTED AS SHOWN ON THE GROUND COVER SPACING DETAIL.
- THE DESIGN INTENT OF THE PLANTING PLAN IS TO ESTABLISH AN ATTRACTIVE LANDSCAPE APPEARANCE. FUTURE PLANT GROWTH MAY NECESSITATE TRIMMING, PRUNING, AND IN SOME CASES REMOVAL OF PLANTINGS AS AN ONGOING MAINTENANCE PROCEDURE. NOTE THAT PLANTS SHOULD NOT BE PRUNED INTO INDIVIDUAL BALLS OR SQUARE SHAPED TOPIARY.
- IMPORT TOPSOIL SHALL BE CLASS 'A'. CONTRACTOR SHALL SUBMIT LABORATORY ANALYSIS AND SOURCE FOR ANY PROPOSED MATERIAL TO OWNER'S REPRESENTATIVE FOR REVIEW AND APPROVAL.
- CONTRACTOR SHALL ARRANGE TESTING OF SOIL BY AN ACCREDITED SOILS LABORATORY APPROVED BY OWNER'S REPRESENTATIVE. REQUEST THAT THE LABORATORY MAKE RECOMMENDATIONS FOR AMENDING PLANTING AREAS & FOR BACKFILL MIX. CONTRACTOR TO FOLLOW RECOMMENDATIONS OF SOILS LAB. ALL ROCK AND DEBRIS 1-1/2" AND LARGER SHALL BE REMOVED FROM PLANTING SOIL, PLANTING AREAS AND THEN FROM SITE.
- AMEND SOILS PER SOIL TEST RECOMMENDATIONS, SEE SPECIFICATIONS.
- ALL ROCK AND DEBRIS 1-1/2" AND LARGER SHALL BE REMOVED FROM PLANTING SOIL, PLANTING AREAS AND THEN FROM SITE.
- PLANT MATERIAL QUANTITIES ARE SHOWN FOR INFORMATION ONLY. CONTRACTOR SHALL VERIFY ALL QUANTITIES PRIOR TO ORDER.
- SUBSTITUTIONS OF PLANT MATERIAL, SPECIES, AND/OR VARIETIES ARE NOT PERMITTED.
- SUBMIT PLANT LIST SHOWING QUANTITIES AND AVAILABILITY OF PLANT MATERIAL WITHIN 30 DAYS OF NOTICE TO PROCEED.
- ALL PLANT MATERIAL SHALL CONFORM TO THE ANSI Z601 "STANDARD FOR NURSERY STOCK".
- NOTIFY PROJECT MANAGER 48 HOURS PRIOR TO PLANT DELIVERY. ALL PLANTS TO BE REVIEWED AND ACCEPTED PRIOR TO PLANTING.
- SEE CIVIL DRAWINGS, ELECTRICAL DRAWINGS AND LANDSCAPE DRAWINGS FOR APPROXIMATE LOCATION OF UTILITIES.
- ONLY NATIVE AND NON-INVASIVE PLANT SPECIES ARE PERMITTED ON THE SITE.
- PLANT SOURCING SHOULD CONSIDER THE NON-PROFIT ORGANIZATION LITERACY FOR ENVIRONMENTAL JUSTICE (LEJ) LOCATED ON THE ISLAND. CONTACT PATRICK MARLEY RUMP. PATRICK.RUMP@EJ.OUTH.ORG

SITE LEGEND

SYMBOL	DESCRIPTION
---	PROPERTY LINE
---	LIMIT OF WORK
---	MATCH LINE
(E)	CONDITIONS, SEE TOPOGRAPHIC SURVEY

CIVIC DESIGN REVIEW

PROJECT ENGINEER	B WONG
PROJECT MANAGER	T BROWN
APPROVED	
DRAWN	V YUAN
DESIGNED	J BECKMAN
CHECKED	J BECKMAN
NO.	DATE
DESCRIPTION	BY
APPRD	
REVISIONS	



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ELEVATION DATUM NAVD88 +100.00'

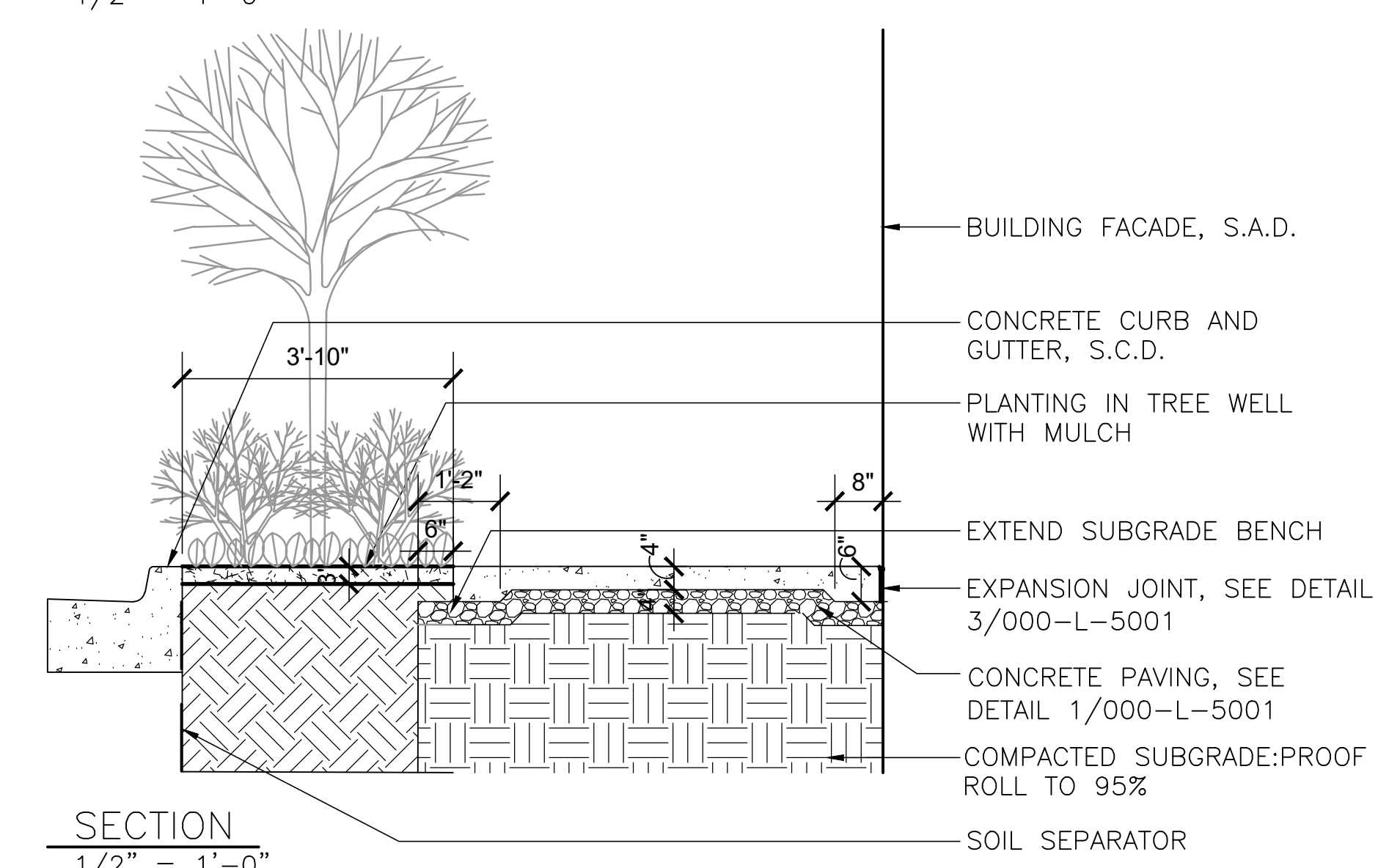
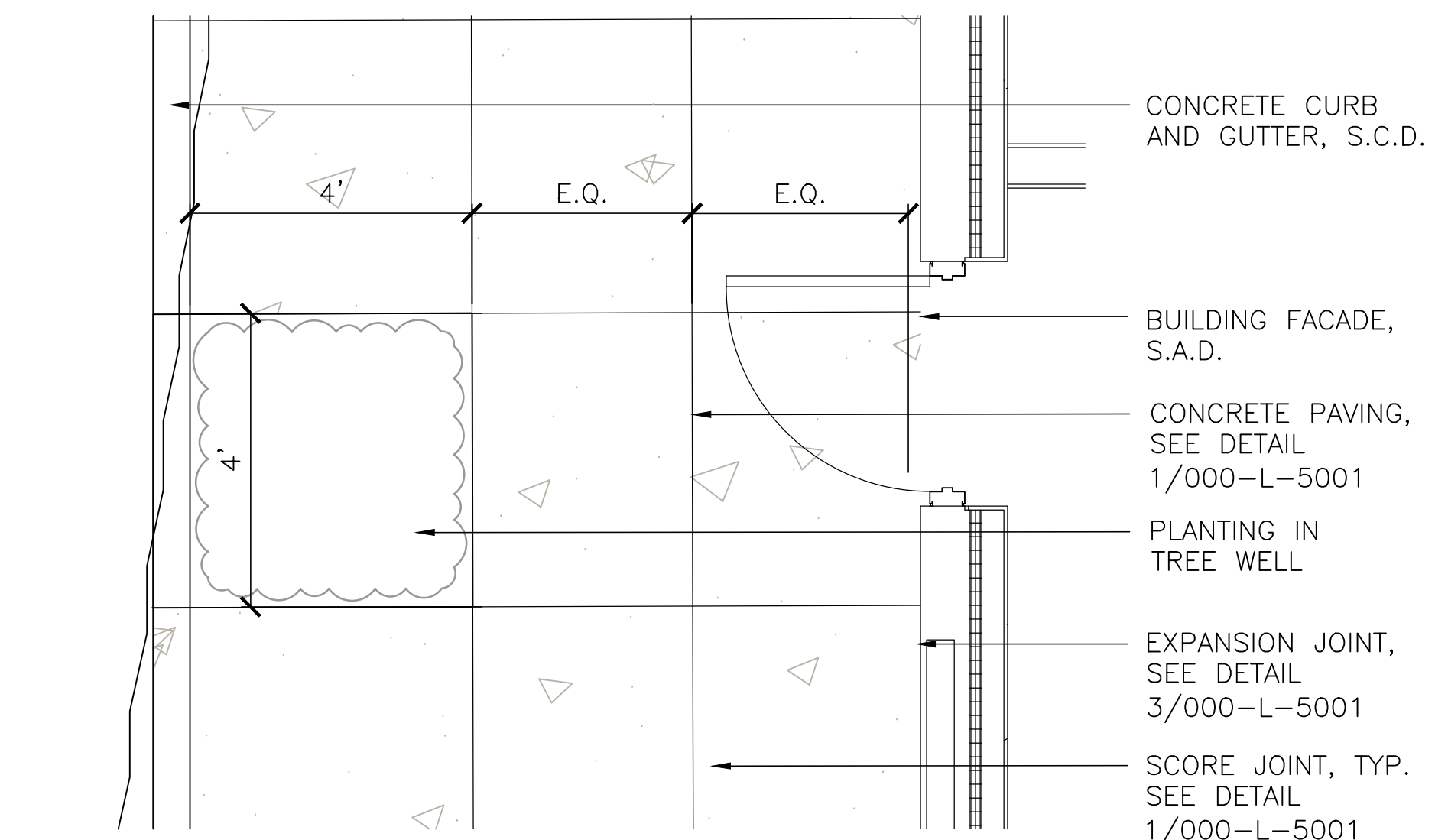
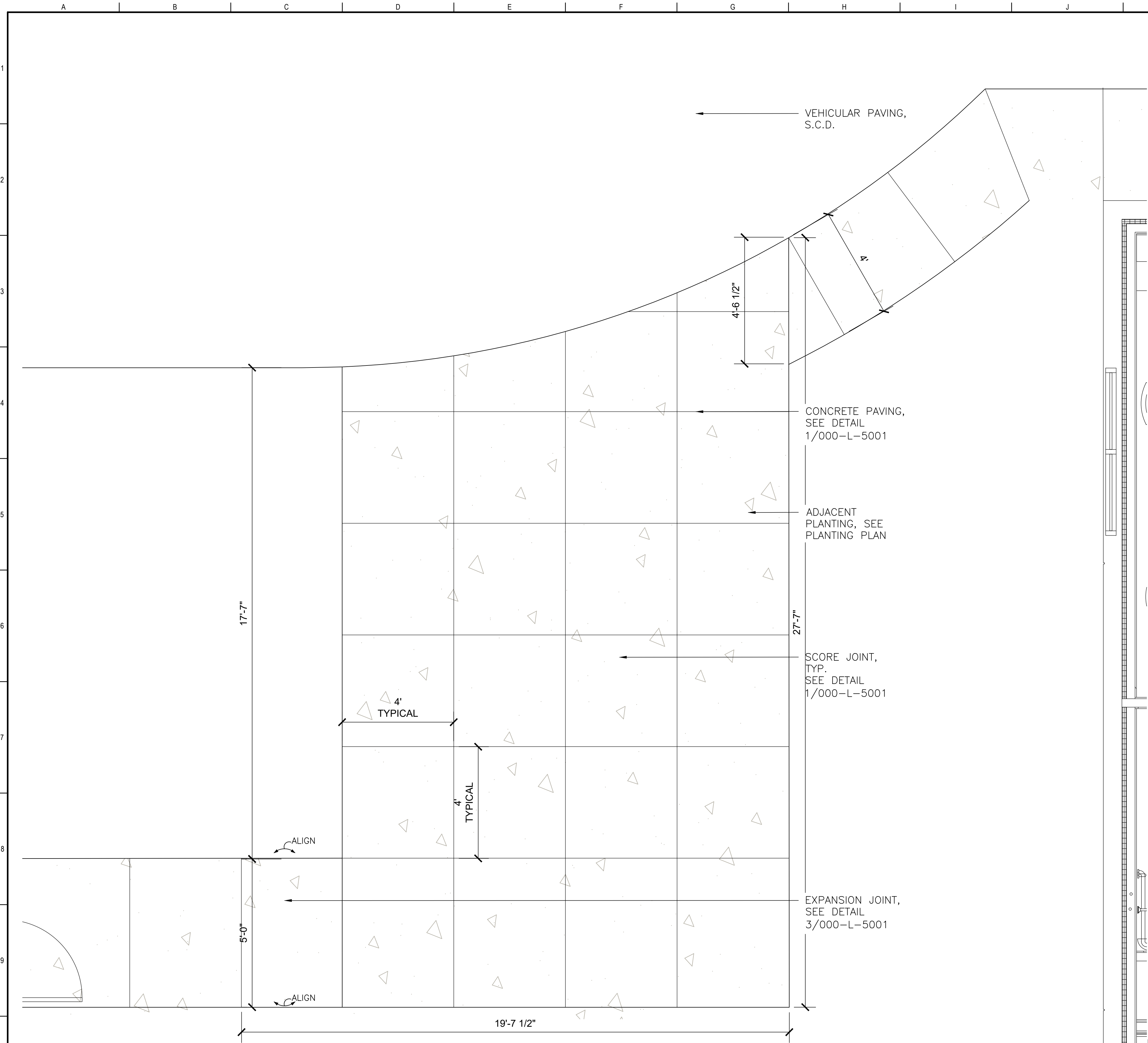
CONTRACT NO. DB-132

CITY AND COUNTY OF SAN FRANCISCO  
PUBLIC UTILITIES COMMISSION  
INFRASTRUCTURE DIVISION  
ENGINEERING MANAGEMENT BUREAU  
WASTEWATER ENTERPRISE  
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY  
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY

TIF GENERAL  
PLANTING LEGEND

CHECKED / APPROVED	DRAWN
SECTION MANAGER	DESIGNED
WWW OPERATIONS MANAGER	SCALE
APPROVED	DATE
MANAGER, ENGINEERING MANAGEMENT BUREAU	WWW ENGINEERING MANAGER
PLAN NO.	DRAWING / FILE NO.
L-1300	0





**L-905 TREE WELL**  
SCALE: 1/2" = 1'

**L-904 PATIO ENLARGEMENT**  
SCALE: 1/2" = 1'

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DATUM  
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**CIVIC DESIGN REVIEW**

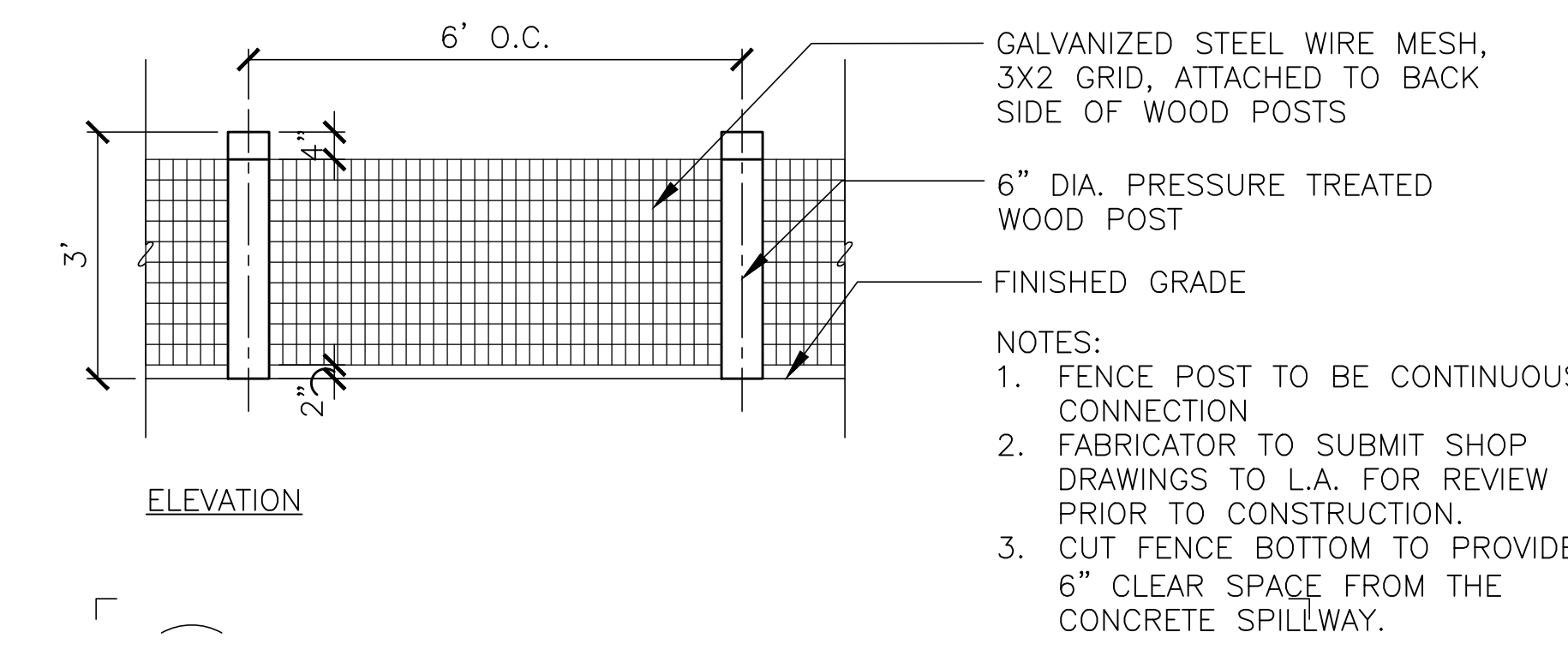
<b>Stantec</b>		The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing; any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.	
PROJECT ENGINEER	B WONG	DRAWN	V YUAN
PROJECT MANAGER	T BROWN	DESIGNED	J BECKMAN
APPROVED		CHECKED	J BECKMAN
NO.	DATE	DESCRIPTION	BY APPRD
REVISIONS			

<b>CONTRACT NO. DB-132</b>			
CITY AND COUNTY OF SAN FRANCISCO <b>PUBLIC UTILITIES COMMISSION</b> INFRASTRUCTURE DIVISION ENGINEERING MANAGEMENT BUREAU			
WASTEWATER ENTERPRISE TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY			
TIF GENERAL			
<b>LANDSCAPE CONSTRUCTION DETAILS 1 OF 7</b>			
CHECKED / APPROVED	DRAWN		
SECTION MANAGER	DESIGNED		
WWE OPERATIONS MANAGER	SCALE	NTS	DATE 05/03/2024
APPROVED	APPROVED		
MANAGER, ENGINEERING MANAGEMENT BUREAU		WWE ENGINEERING MANAGER	
PLAN NO.	DRAWING / FILE NO.	REVISION NO.	
<b>L-5001</b>		<b>0</b>	

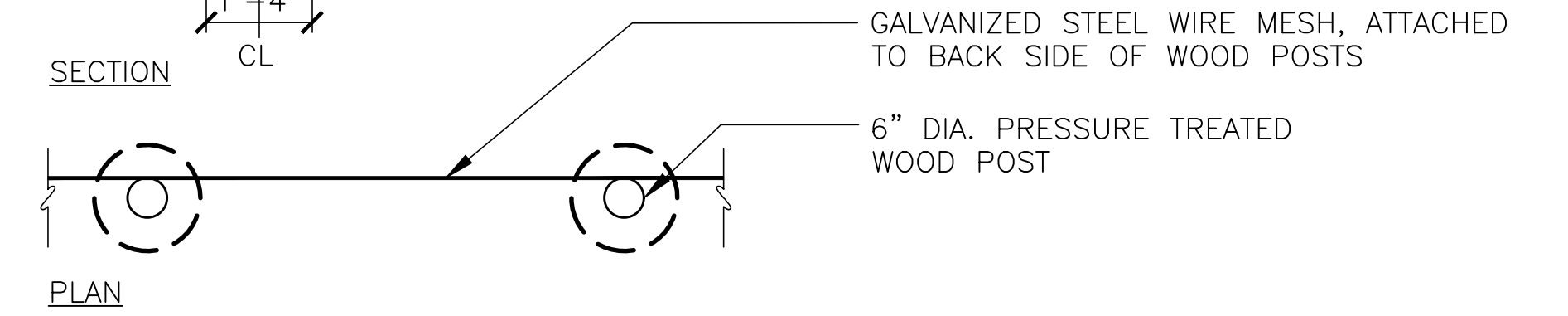
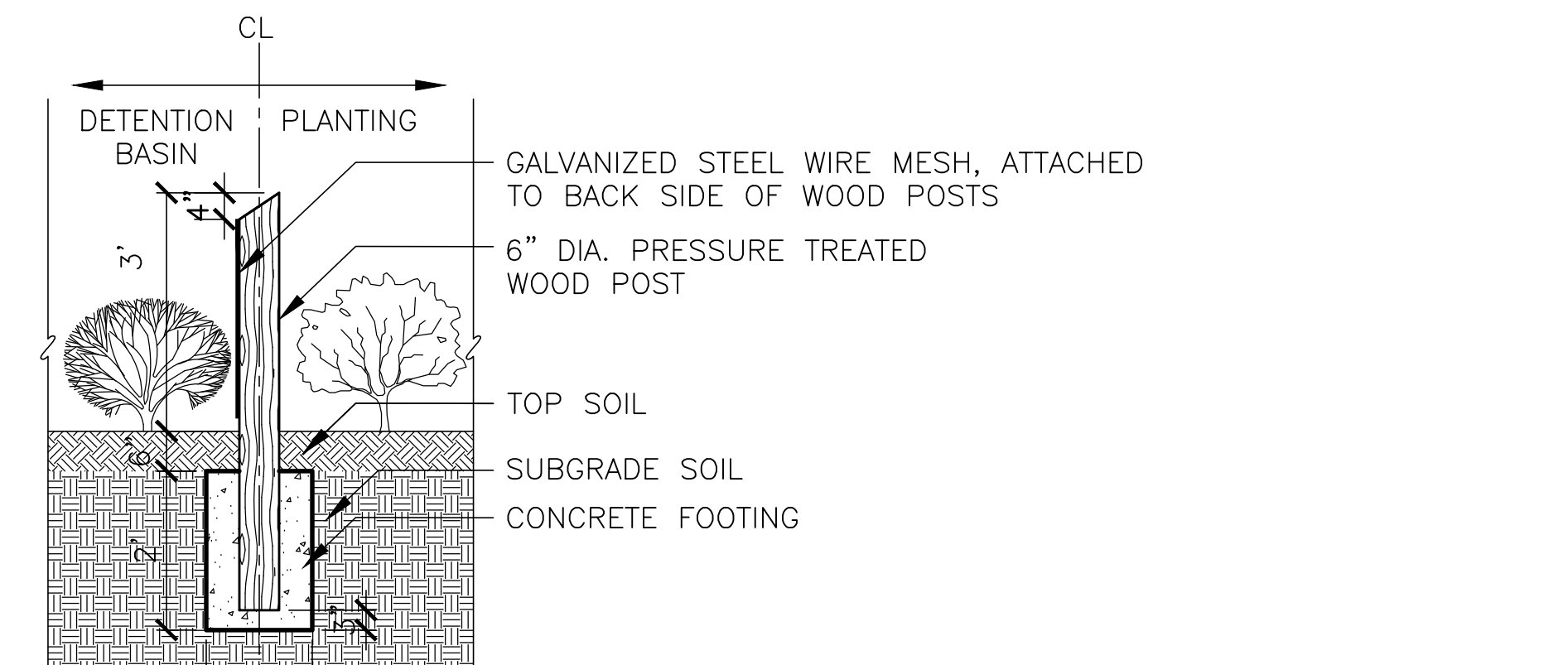




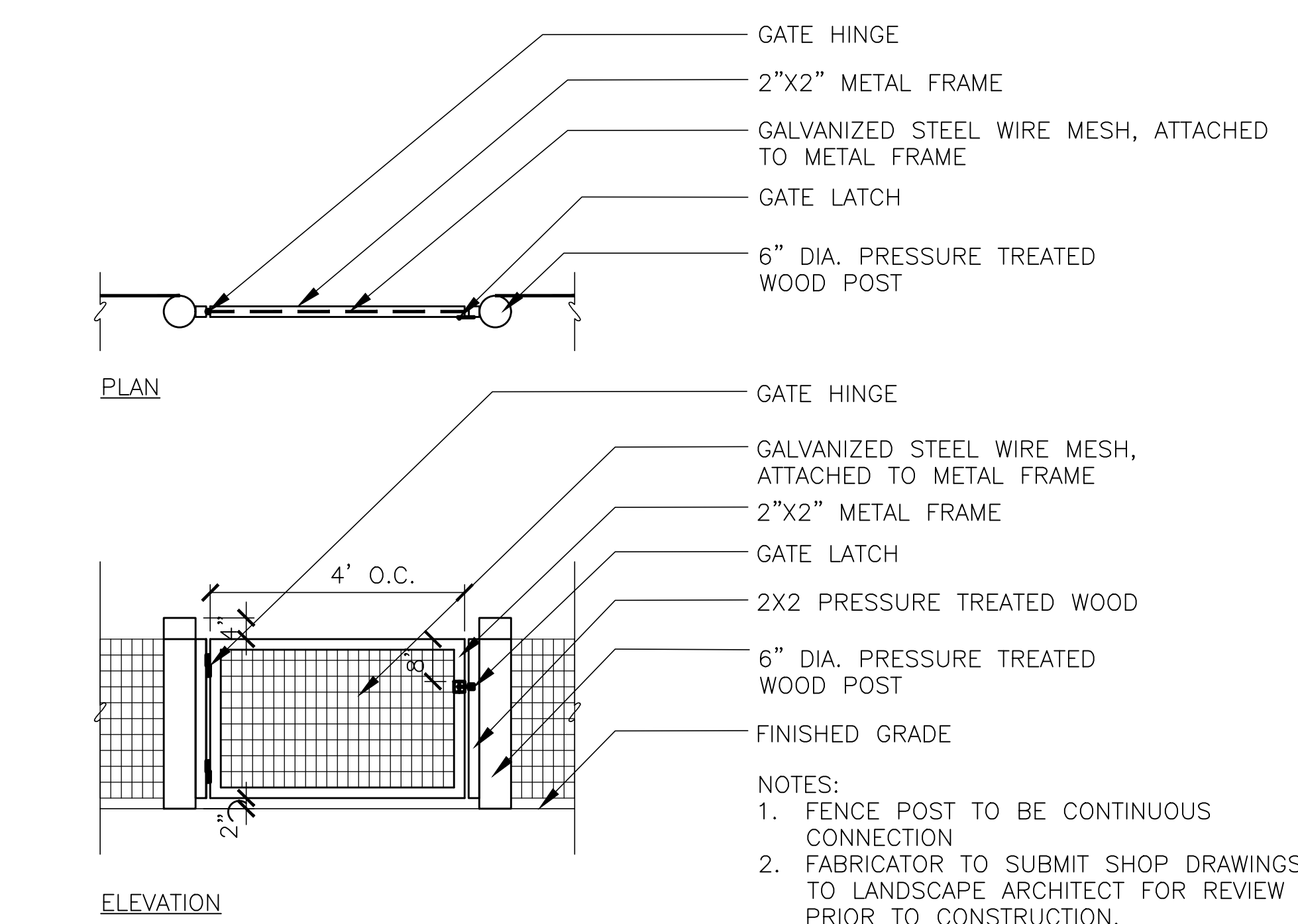
**L-906 SIGN WALL**  
SCALE: 1/2" = 1'



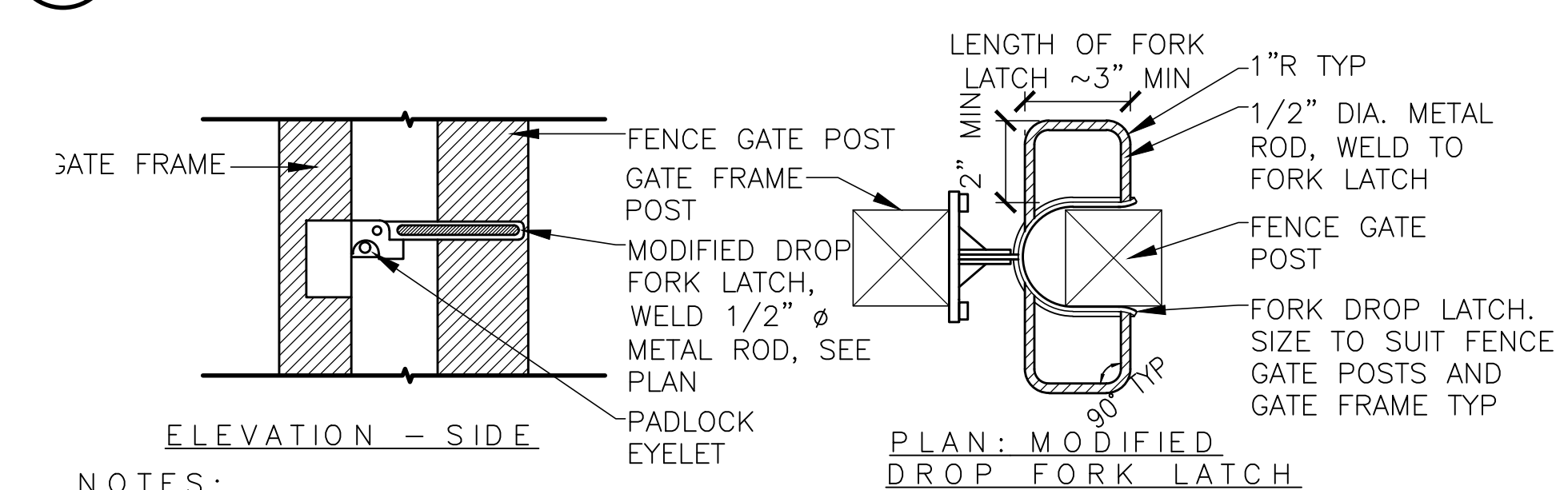
**L-908 WETLAND FENCE - ELEVATION**  
SCALE: 1/2" = 1'



**L-910 WETLAND FENCE - PLAN**  
SCALE: 1/2" = 1'



**L-907 WETLAND GATE**  
SCALE: 1/2" = 1'



**L-909 GATE LATCH**  
SCALE: 1 1/2" = 1'

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ELEVATION DATUM NAVD88 +100.00'



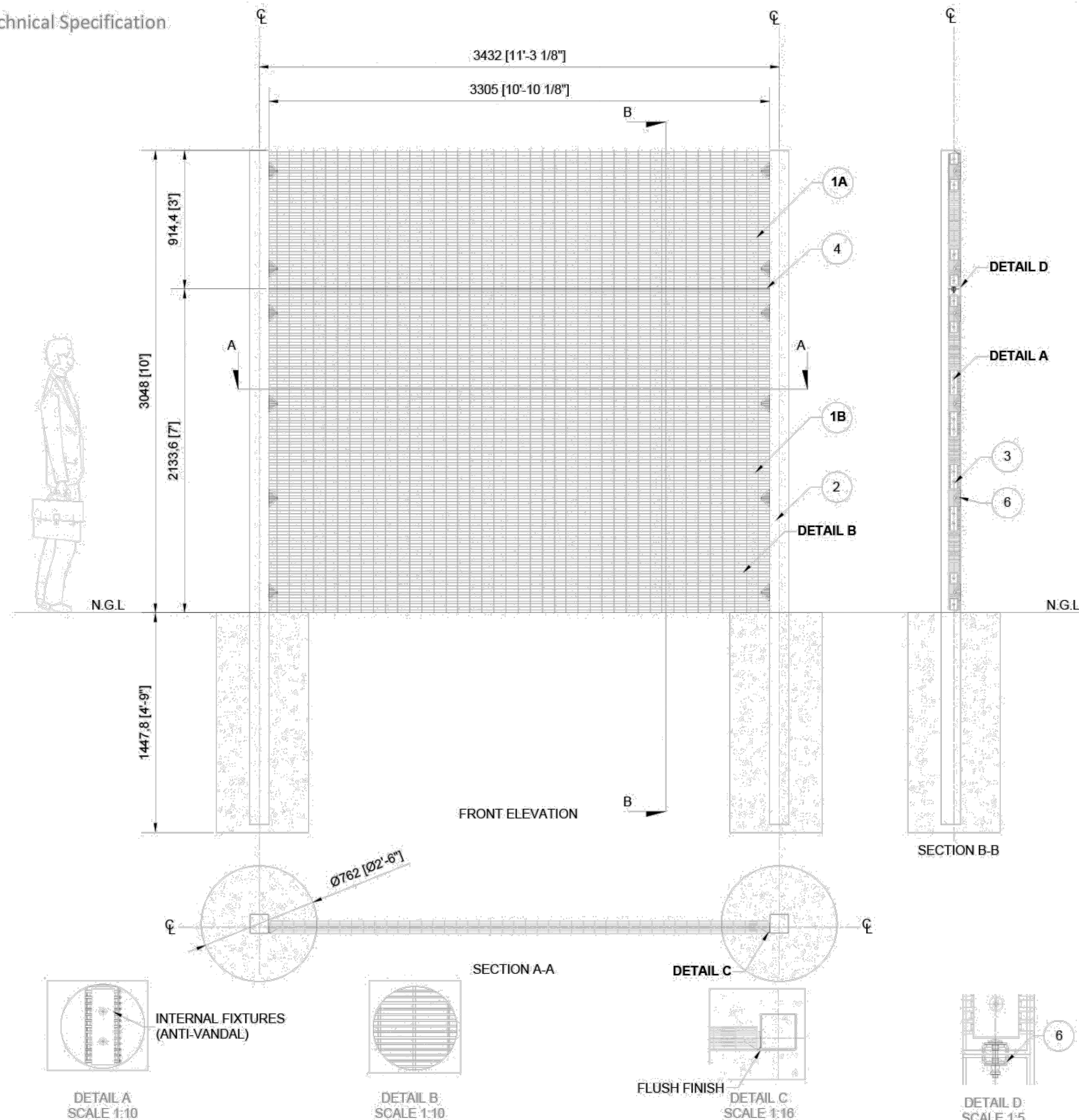
**CIVIC DESIGN REVIEW**

PROJECT ENGINEER	B WONG	DRAWN	V YUAN
PROJECT MANAGER	T BROWN	DESIGNED	J BECKMAN
APPROVED		CHECKED	J BECKMAN
NO.		DATE	
DESCRIPTION		BY	
APPRD		DATE	
REVISIONS			

<b>CONTRACT NO. DB-132</b>			
CITY AND COUNTY OF SAN FRANCISCO <b>PUBLIC UTILITIES COMMISSION</b> INFRASTRUCTURE DIVISION ENGINEERING MANAGEMENT BUREAU			
WASTEWATER ENTERPRISE TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY			
<b>TIF GENERAL</b>			
<b>LANDSCAPE CONSTRUCTION DETAILS 2 OF 7</b>			
CHECKED / APPROVED	DRAWN		
SECTION MANAGER	DESIGNED		
WWE OPERATIONS MANAGER	SCALE	DATE	
APPROVED	APPROVED		
MANAGER, ENGINEERING MANAGEMENT BUREAU		WWE ENGINEERING MANAGER	
PLAN NO.	DRAWING / FILE NO.	REVISION NO.	
<b>L-5002</b>		<b>0</b>	

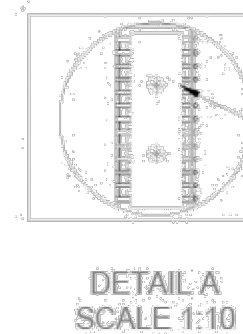


Clearvu - Technical Specification

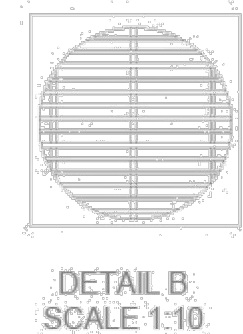


SPECIFICATION  
CLEARVU INVISIBLE WALL PANEL

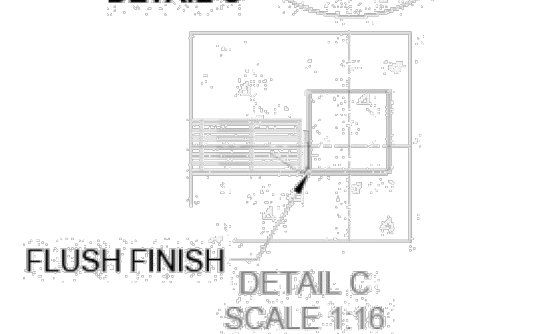
NO#	ITEM	DESCRIPTION
1A	PANEL	CLEARVU MESH PANELS [10'-10 1/8"]x3305mm WIDE x [3"]x14.4mm HIGH GALVANIZED WIRE. PANEL FORMATION: PANEL REINFORCED WITH 2 x 1/2" FORMATION HORIZONTAL RECESSED BANDS (RIGIDITY); 2 x FLANGES ALONG SIDES (INTERNAL FIXTURES - ANTI VANDAL, ALLOWING FOR FLUSH POST AND PANEL FINISH, LINE WIRE SECURE CONNECTION, LOCKING RECESS MECHANISM) AND 1 X 30° FLANGE AT TOP AND 1 X 90° FLANGE AT TOE. (ARROW - STRAIGHT EDGES, INTEGRATED ANGLE). COATING: GALVANIZED, THEN MARINE FUSION BOND COATED.
1B	PANEL	(PATENTS AND DESIGN REGISTRATIONS APPLY) CLEARVU MESH PANELS [10'-10 1/8"]x3305mm WIDE x [7"]x133.6mm HIGH GALVANIZED WIRE. PANEL FORMATION: PANEL REINFORCED WITH 4 x 1/2" FORMATION HORIZONTAL RECESSED BANDS (RIGIDITY); 2 x FLANGES ALONG SIDES (INTERNAL FIXTURES - ANTI VANDAL, ALLOWING FOR FLUSH POST AND PANEL FINISH, LINE WIRE SECURE CONNECTION, LOCKING RECESS MECHANISM) AND 1 X 90° FLANGE AT TOP AND 1 X 30° FLANGE AT TOE. (ARROW - STRAIGHT EDGES, INTEGRATED ANGLE). COATING: GALVANIZED, THEN MARINE FUSION BOND COATED.
2	POST	(PATENTS AND DESIGN REGISTRATIONS APPLY) COCHRANE SQUARE POST, SEALED WITH STEEL CAPS. COATING: GALVANIZED, THEN STRUCTURAL MARINE GRADE COATED.
3	CLAMPS	SINGLE BOLT COMB CLAMPS; DOUBLE BOLT COMB CLAMPS. COATING: GALVANIZED, THEN MARINE FUSION BOND COATED.
4	FOUNDATION	Ø30" x 4'-9" DEEP CONCRETE.
5	CLAMP	SHADOW CLAMP.
6	ANTI-SCALE	COCHRANE ANTI-SCALE.



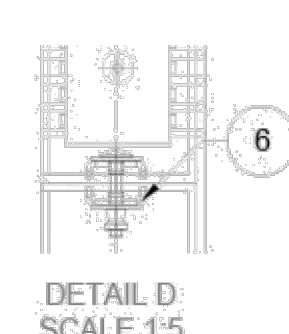
INTERNAL FIXTURES (ANTI-VANDAL)



DETAIL B SCALE 1:10



FLUSH FINISH  
DETAIL C SCALE 1:10



DETAIL D SCALE 1:5

CLIENT APPROVAL

COCHRANE ENGINEERING AND DESIGN

REVISION SCHEDULE

REV	REV DESCRIPTION	REV DATE	DRAWN BY	CHECKED BY	APPROVED BY

PROJECT NAME:	
CHECKED BY:	DRAWN BY:
CHECKED DATE:	DWG TYPE:
APPROVED BY:	SCALE:
APPROVED DATE:	MATERIAL:

**CLEARVU**  
THE INVISIBLE WALL

**COCHRANE USA**

DRAWING NUMBER:
13207-NF-CV-00-05-00-00-A-R00
DRAWING DESCRIPTION:
DETAIL DRAWING OF 10 FOOT CLEARVU SPLIT PANEL

L-911 SECURITY ENCLOSURE  
NTS

CIVIC DESIGN REVIEW

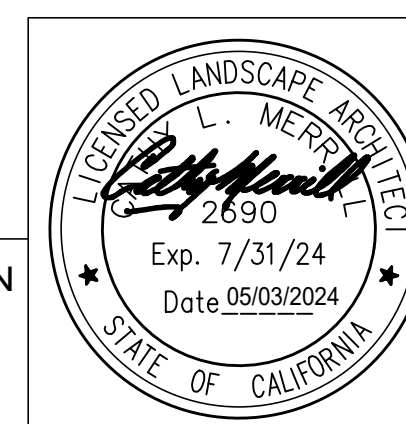
CONTRACT NO. DB-132

CITY AND COUNTY OF SAN FRANCISCO  
**PUBLIC UTILITIES COMMISSION**  
INFRASTRUCTURE DIVISION  
ENGINEERING MANAGEMENT BUREAU

WASTEWATER ENTERPRISE  
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY  
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY

TIF GENERAL  
**LANDSCAPE CONSTRUCTION DETAILS 3 OF 7**

Stantec		Merrill Morris Partners	
PROJECT ENGINEER	DRAWN	PROJECT MANAGER	DESIGNED
B WONG	V YUAN	T BROWN	J BECKMAN
APPROVED	CHECKED	APPROVED	CHECKED
NO.	DATE	DESCRIPTION	BY



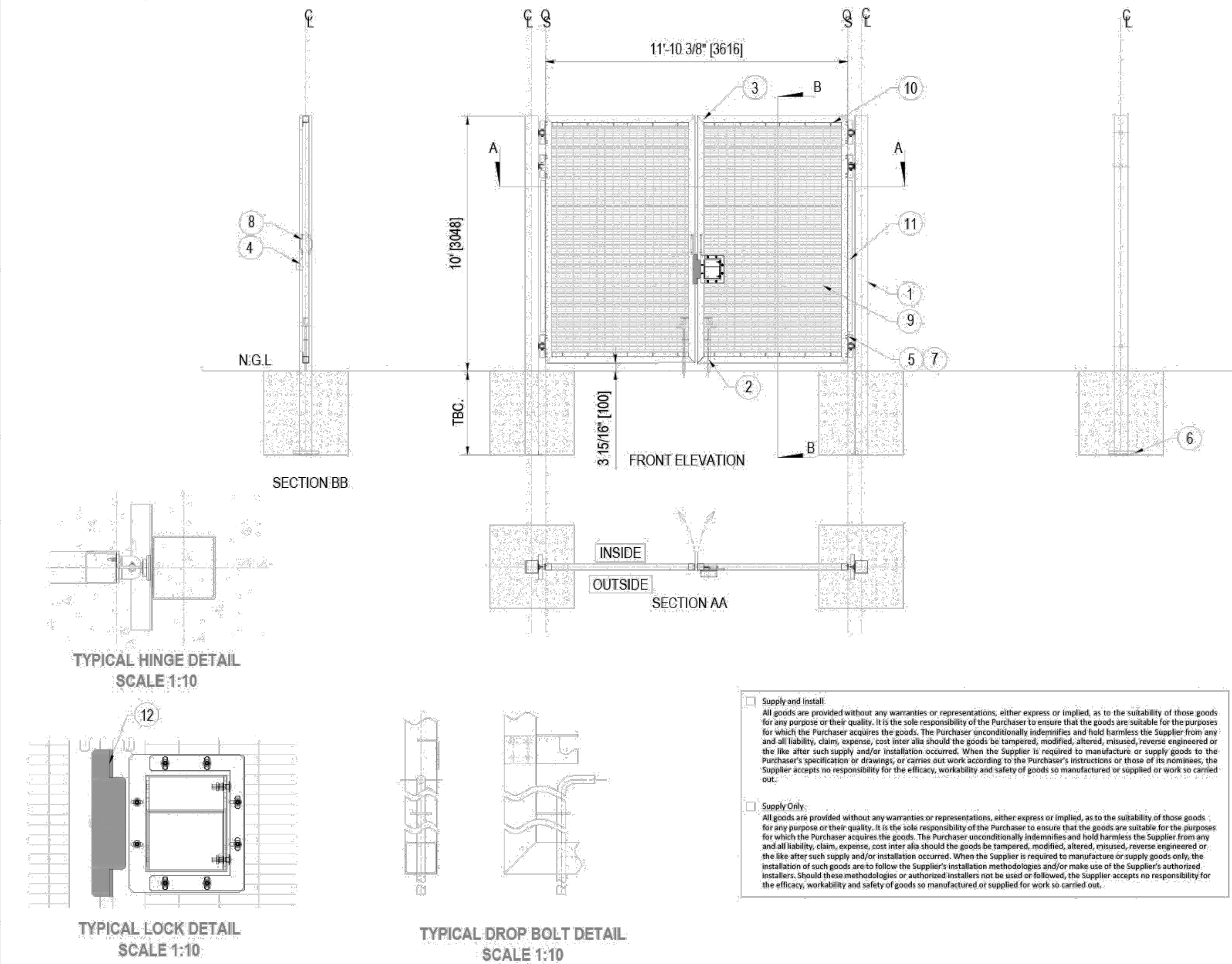
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CHECKED / APPROVED	DRAWN
SECTION MANAGER	DESIGNED
WWE OPERATIONS MANAGER	SCALE
	NTS
APPROVED	DATE
	05/03/2024
MANAGER, ENGINEERING MANAGEMENT BUREAU	WWE ENGINEERING MANAGER
PLAN NO.	DRAWING / FILE NO.
<b>L-5003</b>	
	REVISION NO.
	<b>0</b>



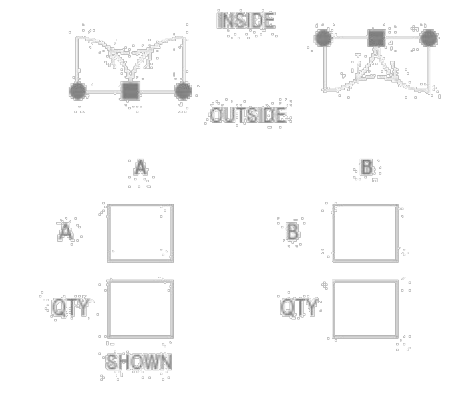
Double Leaf Swing Gate - Technical Specification  
12' Wide X 10' High Gate



**SPECIFICATION**  
BILL OF MATERIAL

NO#	ITEM	DESCRIPTION	QTY
1	HINGE POST	SQUARE TUBE	2
2	DROP BOLT	ROUND BAR	2
3	GATE FRAME	SQUARE TUBE	2
4	LOCKING DEVICE	T-SLIDE LOCK, WITH LOCK BOX: CSP-05-0001-74-00-02-18-A CSP-05-0001-74-00-02-18-B	1
5	HINGE	LARGE HINGE: CSP-05-4861_M27-18-01-A-R02	6
6	BASE PIN	ANGLE IRON: CSP-05-0001-74-00-06-18-A-002	2
7	COVER PLATE	CSP-05-0001-74-00-01-18-B CSP-05-0001-74-00-01-18-C	12
8	GRAB HANDLE	HANDLE	4
9	MESH	CLEARVU MESH	2
10	ANGLE IRON	ANGLE IRON TO SECURE MESH	4
11	ANGLE IRON	ANTI-TAMPER ANGLE	2
12	PLATE	PIN PROTECTION PLATE	1

OPENING DIRECTION TERMS AND CONDITIONS:  
DEAR CLIENT, KINDLY TAKE NOTE THAT SHOULD THE OPENING DIRECTION OF THE GATE NOT BE CLEARLY INDICATED WE CONCLUDE THAT OPENING DIRECTION A IS ACCEPTED ON APPROVAL OF DRAWINGS.



APPROVED BY CLIENT

**Supply and Install**  
All goods are provided without any warranties or representations, either express or implied, as to the suitability of those goods for any purpose or their quality. It is the sole responsibility of the Purchaser to ensure that the goods are suitable for the purposes for which the Purchaser acquires the goods. The Purchaser unconditionally indemnifies and holds harmless the Supplier from any and all liability, claim, expense, cost inter alia should the goods be tampered, modified, altered, misused, reverse engineered or the like after such supply and/or installation occurred. When the Supplier is required to manufacture or supply goods to the Purchaser's specification or drawings, or carries out work according to the Purchaser's instructions or those of its nominees, the Supplier accepts no responsibility for the efficacy, workability and safety of goods so manufactured or supplied or work so carried out.

**Supply Only**  
All goods are provided without any warranties or representations, either express or implied, as to the suitability of those goods for any purpose or their quality. It is the sole responsibility of the Purchaser to ensure that the goods are suitable for the purposes for which the Purchaser acquires the goods. The Purchaser unconditionally indemnifies and holds harmless the Supplier from any and all liability, claim, expense, cost inter alia should the goods be tampered, modified, altered, misused, reverse engineered or the like after such supply and/or installation occurred. When the Supplier is required to manufacture or supply goods only, the installation of such goods are to follow the Supplier's installation methodologies and/or make use of the Supplier's authorized installers. Should these methodologies or authorized installers not be used or followed, the Supplier accepts no responsibility for the efficacy, workability and safety of goods so manufactured or supplied for work so carried out.

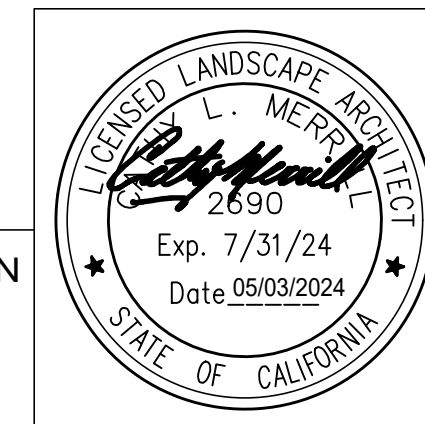
REV	REVISION SCHEDULE	REV DATE	DRAWN BY	CHECKED BY	APPROVED BY	CHECKED BY:	DRAWN BY:	SHEET NO:	DRAWING NAME:
						AK	CW	1 OF 1	13862-JM-PD-00-01-00-00-A-R00
						TE	NTS	N/A	
							MILD STEEL	0	DETAIL DRAWING OF DOUBLE LEAF SWING GATE

L-912 DOUBLE SWING MAINTENANCE GATE  
NTS

CIVIC DESIGN REVIEW

**CONTRACT NO. DB-132**  
CITY AND COUNTY OF SAN FRANCISCO  
**PUBLIC UTILITIES COMMISSION**  
INFRASTRUCTURE DIVISION  
ENGINEERING MANAGEMENT BUREAU  
WASTEWATER ENTERPRISE  
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY  
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY

PROJECT ENGINEER	B WONG	DRAWN	V YUAN
PROJECT MANAGER	T BROWN	DESIGNED	J BECKMAN
APPROVED		CHECKED	J BECKMAN



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ELEVATION DATUM  
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TIF GENERAL	
LANDSCAPE CONSTRUCTION DETAILS 4 OF 7	
CHECKED / APPROVED	DRAWN
SECTION MANAGER	DESIGNED
WWE OPERATIONS MANAGER	SCALE NTS DATE 05/03/2024
APPROVED	APPROVED
MANAGER, ENGINEERING MANAGEMENT BUREAU	WWE ENGINEERING MANAGER
PLAN NO. <b>L-5004</b>	DRAWING / FILE NO. <b>0</b>



Single Leaf Sliding Gate - Technical Specification

28'-8" Wide x 10' High Gate

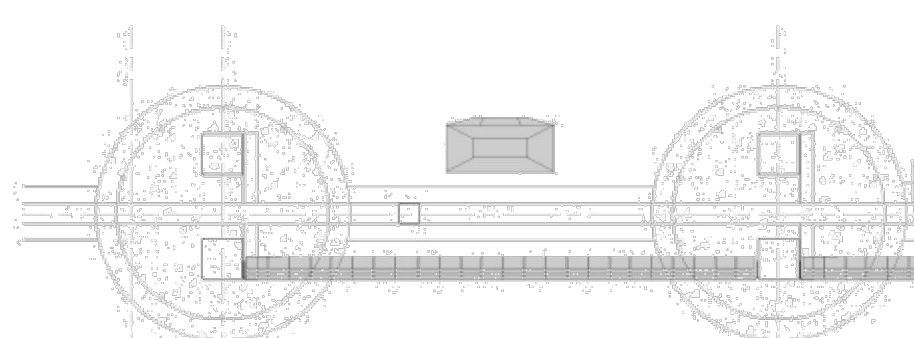
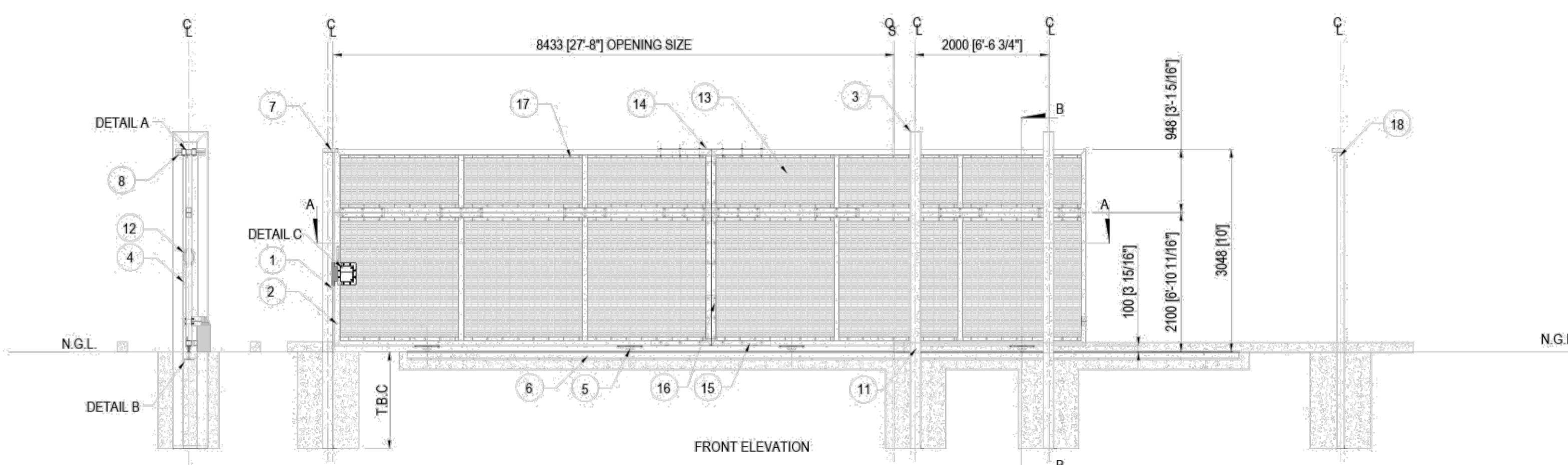
SPECIFICATION

BILL OF MATERIAL

NO#	ITEM	DESCRIPTION	QTY#
1	LOCK POST	SQUARE TUBE	4
2	GATE FRAME	SQUARE TUBE	4
3	PORTAL	SQUARE TUBE	2
4	LOCKING DEVICE	T-SLIDE LOCK, WITH LOCKBOX: CSP-05-0001-74-00-02-18-A, CSP-05-0001-74-00-02-18-B	1
5	GATE WHEEL	HD GATE WHEEL	4
6	STD GATE RAIL	ROUND BAR, FIXED TO IPE	1
7	GATE GUIDE	FLAT BAR	1
8	GUIDE WHEEL	ADJUSTABLE ROLLERS	4
9	STOPPER	EXTENDED STOPPER	1
10	BASE PIN	ANGLE IRON	3
11	ANTI-LIFT	ANTI-LIFT-00-00-00	2
12	HANDLE	GRAB HANDLE	2
13	MESH	CLEARVU MESH	12
14	JOINING PLATES	JOININGPLCT-01-00-00-00	1
15	JOINING PLATES	JOININGPLCT-02-00-00-00	2
16	JOINING PLATES	JOININGPLCT-03-00-00-00	22
17	ANGLE IRON	ANGLE IRON TO SECURE MESH	34
18	CATCH POST	SQUARE TUBE	1
19	PLATE	PIN PROTECTION PLATE	1
20	EMERGENCY STOPPER	BOLT ON STOPPER	1
21	MOTOR	MOTOR TO BE CONFIRMED	1

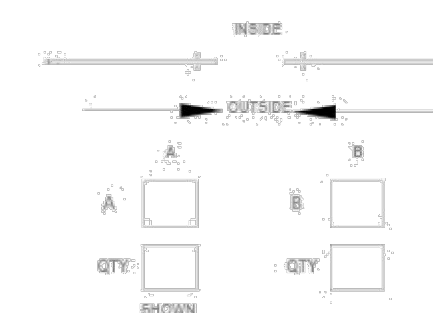
SUGGESTED ITEM

TRAINING WHEELS: COCHRANE TRAINING WHEELS



FENCE TIE IN DETAIL  
SCALE 1:30

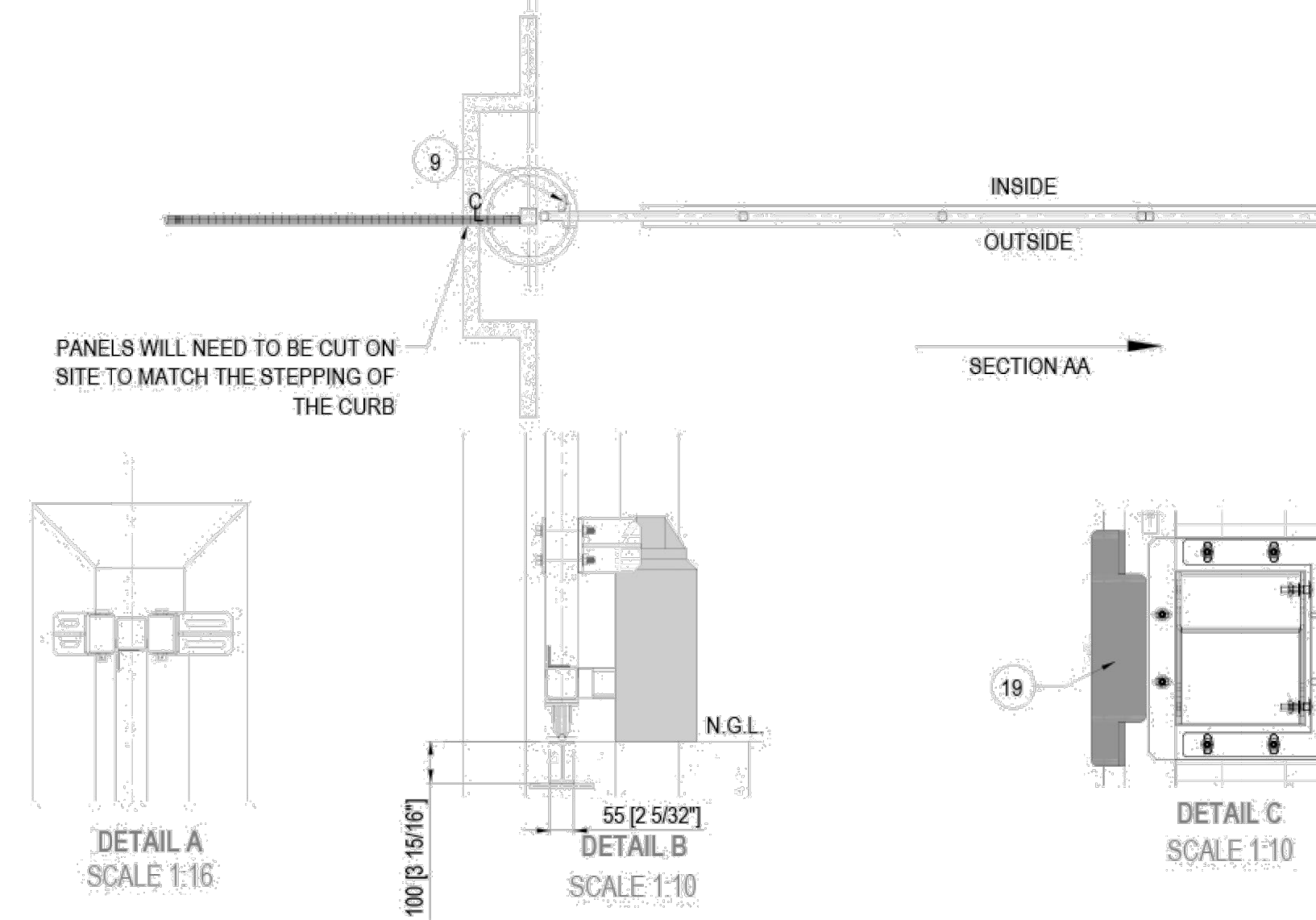
OPENING DIRECTION TERMS AND CONDITIONS:  
DEAR CLIENT, KINDLY TAKE NOTE THAT SHOULD THE OPENING  
DIRECTION OF THE GATE NOT BE CLEARLY INDICATED, THE  
CONCLUDE THAT OPENING DIRECTION A IS ACCEPTED ON  
APPROVAL OF DRAWING.



GATE WEIGHT  
1005.46kg / 2216.66lbs

COCHRANE TAKES NO RESPONSIBILITY SHOULD  
ACCIDENTS OCCUR WHILE THE GATE IS OPERATED,  
WITHOUT TRAINING WHEELS

APPROVED BY CLIENT



DETAIL A  
SCALE 1:16

DETAIL B  
SCALE 1:10

DETAIL C  
SCALE 1:10

**Supply and Install**  
All goods are provided without any warranties or representations, either express or implied, as to the suitability of those goods for any purpose or their quality. It is the sole responsibility of the Purchaser to ensure that the goods are suitable for the purposes for which the Purchaser acquires the goods. The Purchaser unconditionally indemnifies and holds harmless the Supplier from any and all liability, claim, expense, cost (inter alia should the goods be tampered, modified, altered, misused, reverse engineered or the like after such supply and/or installation occurred. When the Supplier is required to manufacture or supply goods to the Purchaser's specification or drawings, or carries out work according to the Purchaser's instructions or those of its nominees, the Supplier accepts no responsibility for the efficacy, workability and safety of goods so manufactured or supplied or work so carried out.

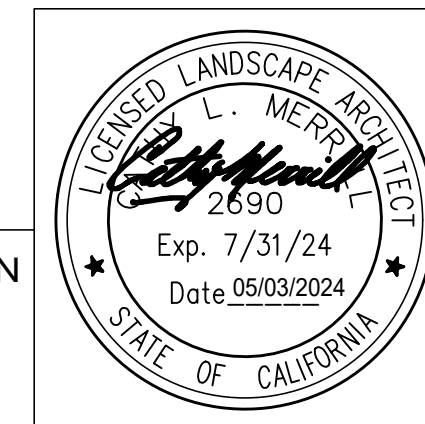
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REV	REV DESCRIPTION	REVISION SCHEDULE	REV DATE	DRAWN BY	CHECKED BY	APPROVED BY	PROJECT NAME	PROJECT NO.	DRAWING NO.	DRAWING DISCUSSION
01	MADE CHANGES ACCORDING TO CLIENT COMMENTS		2023-09-21	CW	AK	TE	SFPUC Treasure Island	13862-JM-SG-00-01-00-00-A-R02	13862-JM-SG-00-01-00-00-A-R02	
02	TRAINING WHEELS REMOVED		2023-10-04	CW	AK	TE				

(L)913 SLIDING VEHICULAR GATE  
NTS

CIVIC DESIGN REVIEW

PROJECT ENGINEER	B WONG	DRAWN	V YUAN
PROJECT MANAGER	T BROWN	DESIGNED	J BECKMAN
APPROVED		CHECKED	J BECKMAN



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ELEVATION  
DATUM  
NAVD88  
+100.00'

# SlideDriver™ II SD40

Maximum security combined with extreme durability

The most secure slide gate operator with power to move any gate, customizable for every unique application.

- Features:**
- Powerful:** Move gates up to 4,000 lb.
  - Tough:** Secure steel chassis and taper resistant cover.
  - Reliable:** UPS models remain functional during a power outage.
  - Programmable:** Configure for specific site requirements.
  - Fast:** 1-3 ft/s operating speed. Emergency fast operate at 3 ft/s.
  - Smart:** Integrated primary/secondary controls and preprogrammed relay settings.
  - All weather performance:** Wide temperature range without heater.
  - Durable:** Decades long life and low maintenance.
  - Made in USA:** Designed, tested and built with in USA from globally sourced materials.
- 

## SlideDriver™ II SD40

Next Generation

Builds on a legacy of security and reliability with the new SmartTouch™ 725 controller

**Technical Specifications**

Model	SlideDriver II SD40
Duty Cycle	Continuous
Horsepower	1 hp DC Option 2 hp
Drive	Hydraulic
Drive Wheels	Two 8 inch (203mm) diameter drive wheels
Rate of Travel	1 ft/s (0.30 m/s)
Gate Length Max.	Limited only by weight
Gate Weight Max.	Up to 4,000 lb (1,814 kg)
Pull Force	300 lb (136 kg)
UPS Battery Backup Cycle*	Select option SB-2-2 for DC configuration. Requires DC Power Supply DCPB-60, purchased separately.
Temperature Rating	-40° to 150° F (-40° to 70° C)
Single Phase Voltage	115/208-230V 60 Hz, 115/220V 50 Hz***
Three Phase Voltages	208-230/480V 60Hz, 220/380/440V 50Hz***
Included Accessories	One premium EMX-IRB-MON photo eye, one 5-foot premium ASD edge sensor
Communication	Bluetooth, USB, Ethernet, RS-485, Bluetooth, OXI receiver
User Controls	SmartTouch 725 Controller with 7" configurable settings, 32 character OLED display and 7 tactile buttons, or Bluetooth smartphone interface, for programming. SmartTouch 725 Available without Bluetooth or Ethernet
Relays	8 Configurable relays. Two 250V 20A electromechanical relays and six 30VDC 2A solid state relays
Enclosure	N/A
Finish	Zinc plated with powder coating
ETL Listed (UL 325)	Usage Class I, II, IV
Warranty	5 year w/ product registration

\*The actual number of gate cycles available from battery power depends upon gate resistance to travel, cycle length, battery size, state of charge and health, ambient temperature, accessory power draw and frequency of gate system starting power outage.  
\*\*\*Refer to installed Options on pricing for all 50Hz voltages, which are special order.

**HySecurity** Nice/HiSecurity is an industry leader of automated gate and perimeter security solutions. The HySecurity brand provides high-quality, ultra-reliable industrial gate operators and crash-rated, Hostile Vehicle Mitigation (HVM) vehicle barriers designed to secure and protect critical infrastructure and facilities worldwide.

**Niceforyou.com**  
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**CONTRACT NO. DB-132**

CITY AND COUNTY OF SAN FRANCISCO  
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INFRASTRUCTURE DIVISION  
ENGINEERING MANAGEMENT BUREAU

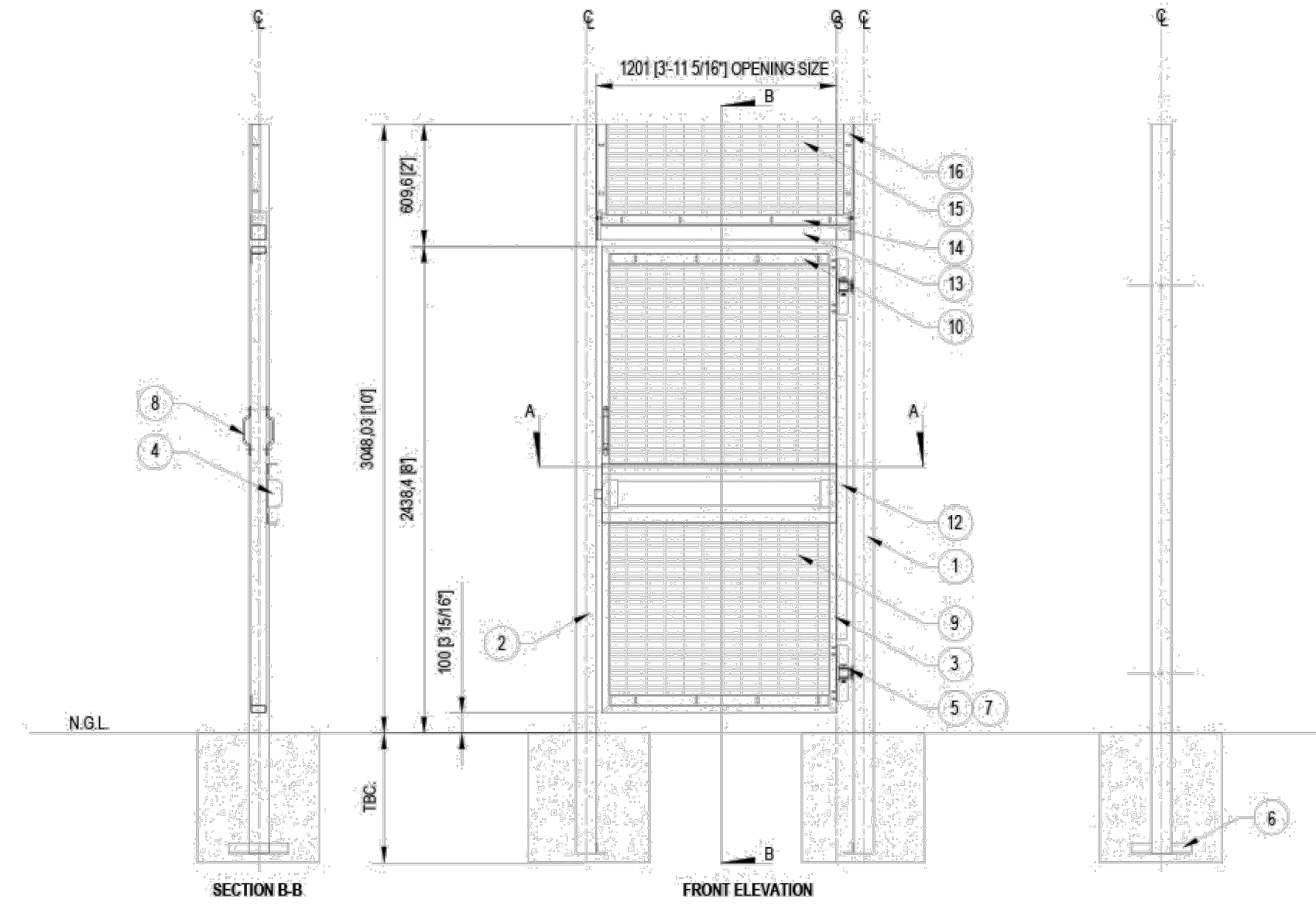
WASTEWATER ENTERPRISE  
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY  
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY

**TIF GENERAL**  
LANDSCAPE CONSTRUCTION DETAILS 5 OF 7

CHECKED / APPROVED	DRAWN
SECTION MANAGER	DESIGNED
WWE OPERATIONS MANAGER	SCALE
DATE	05/03/2024
APPROVED	APPROVED
MANAGER, ENGINEERING MANAGEMENT BUREAU	WWE ENGINEERING MANAGER
PLAN NO.	DRAWING / FILE NO.
<b>L-5005</b>	<b>0</b>



**Pedestrian Gate - Technical Specification**  
 4' Wide x 8' High Gate  
 2' Infill Panel



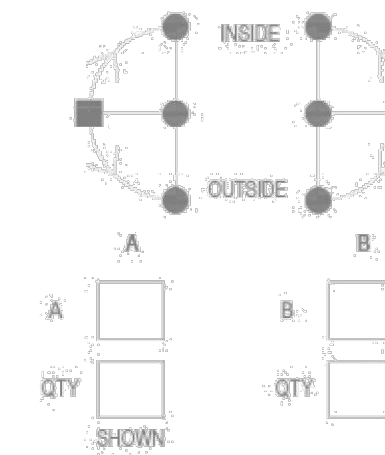
**SPECIFICATIONS**

**BILL OF MATERIAL**

NO#	ITEM	DESCRIPTION	QTY#
1	HINGE POST	SQUARE TUBE	1
2	LOCKING POST	PUSH BAR CISA 59001 FAST PUSH EXIT BAR	1
3	GATE FRAME	RECTANGULAR TUBE	1
4	LOCKING DEVICE	T-SLIDE LOCK, WITH LOCK BOX: CSP-05-0001-74-00-02-18-A CSP-05-0001-74-00-02-18-B	1
5	HINGE	LARGE HINGE: CSP-05-4861_M27-18-02-A-R02	2
6	BASE PIN	ANGLE IRON: CSP-05-0001-74-00-06-18-A-002	2
7	COVER PLATE	CSP-05-0001-74-00-01-18-B CSP-05-0001-74-00-01-18-C	4
8	HANDLE	GRAB HANDLE	2
9	MESH	CLEARVU MESH	1
10	ANGLE IRON	ANGLE IRON TO SECURE MESH	5
11	PLATE	PLATE TO MOUNT PUSH BAR	1
12	ANGLE IRON	ANTI-TAMPER ANGLE IRON	1
13	MODULAR BEAM	SQUARE TUBE	1
14	MODULAR PLATE	FLAT PLATE WITH 2 x HOLES TO ACCOMMODATE FIXING	4
15	INFILL PANEL	CLEARVU MESH	1
16	FLAT BAR	ANGLE IRON TO SECURE MESH	3

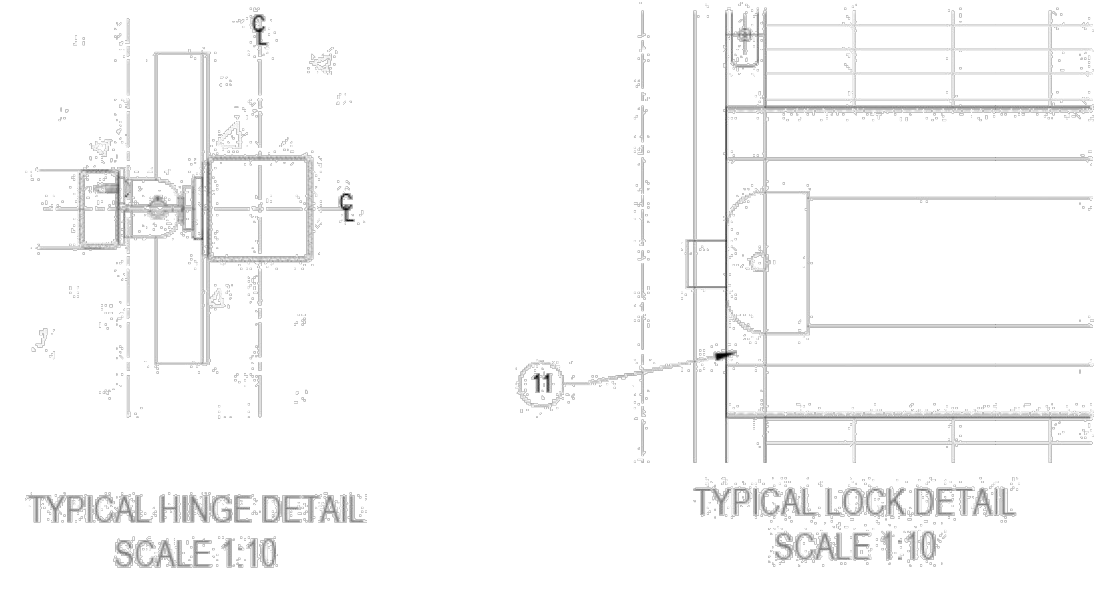
OPENING DIRECTION TERMS AND CONDITIONS  
 DEAR CLIENT, KINDLY TAKE NOTE THAT SHOULD THE OPENING DIRECTION OF THE GATE NOT BE CLEARLY INDICATED WE CONCLUDE THAT OPENING DIRECTION A IS ACCEPTED ON APPROVAL OF DRAWINGS.

OPENING DIRECTION:



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APPROVED BY CLIENT

COCHRANE ENGINEERING AND DESIGN						PROJECT NAME: SFPUC Treasure Island			CLEARVU THE INVISIBLE WALL		COCHRANE USA	
REV	REV DESCRIPTION	REVISION SCHEDULE	REV DATE	DRAWN BY	CHECKED BY	APPROVED BY	CHECKED BY:	DRAWN BY:	SHEET NO.:	DRAWING NAME:		
01	CHANGE TO A PUSH BAR SYSTEM		2023-09-21	CW	AK	TE	AK	CW	1 OF 1	13862-JM-PG-00-01-00-00-A-R01		
							CHECKED DATE:	DWG TYPE:	PRINT DATE:	DRAWING DISCUSSION:		
							2023-09-01	CLIENT APPROVAL	N/A	DETAIL DRAWING OF PEDESTRIAN GATE		
							APPROVED BY:	SCALE:	CURRENT REV.:			
							TE	NTS	1			
							APPROVED DATE:	MATERIAL:				
							2023-09-01					

L-914 PEDESTRIAN GATE  
 NTS

CIVIC DESIGN REVIEW

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 ENGINEERING MANAGEMENT BUREAU  
 WASTEWATER ENTERPRISE  
 TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY  
 TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY

TIF GENERAL

**LANDSCAPE CONSTRUCTION DETAILS 6 OF 7**

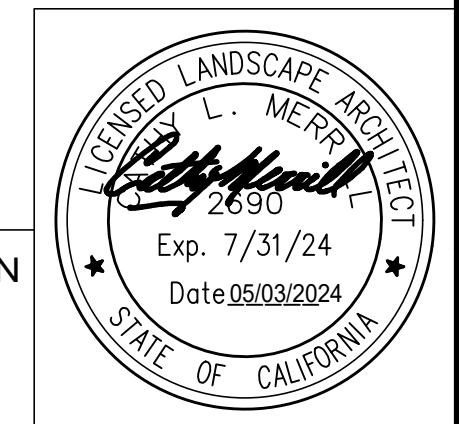
CHECKED / APPROVED	DRAWN
SECTION MANAGER	DESIGNED
WWE OPERATIONS MANAGER	SCALE
DATE	05/03/2024
APPROVED	APPROVED
MANAGER, ENGINEERING MANAGEMENT BUREAU	WWE ENGINEERING MANAGER
PLAN NO.	DRAWING / FILE NO.
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Stantec

**Merrill**  
 Merrill Morris Partners

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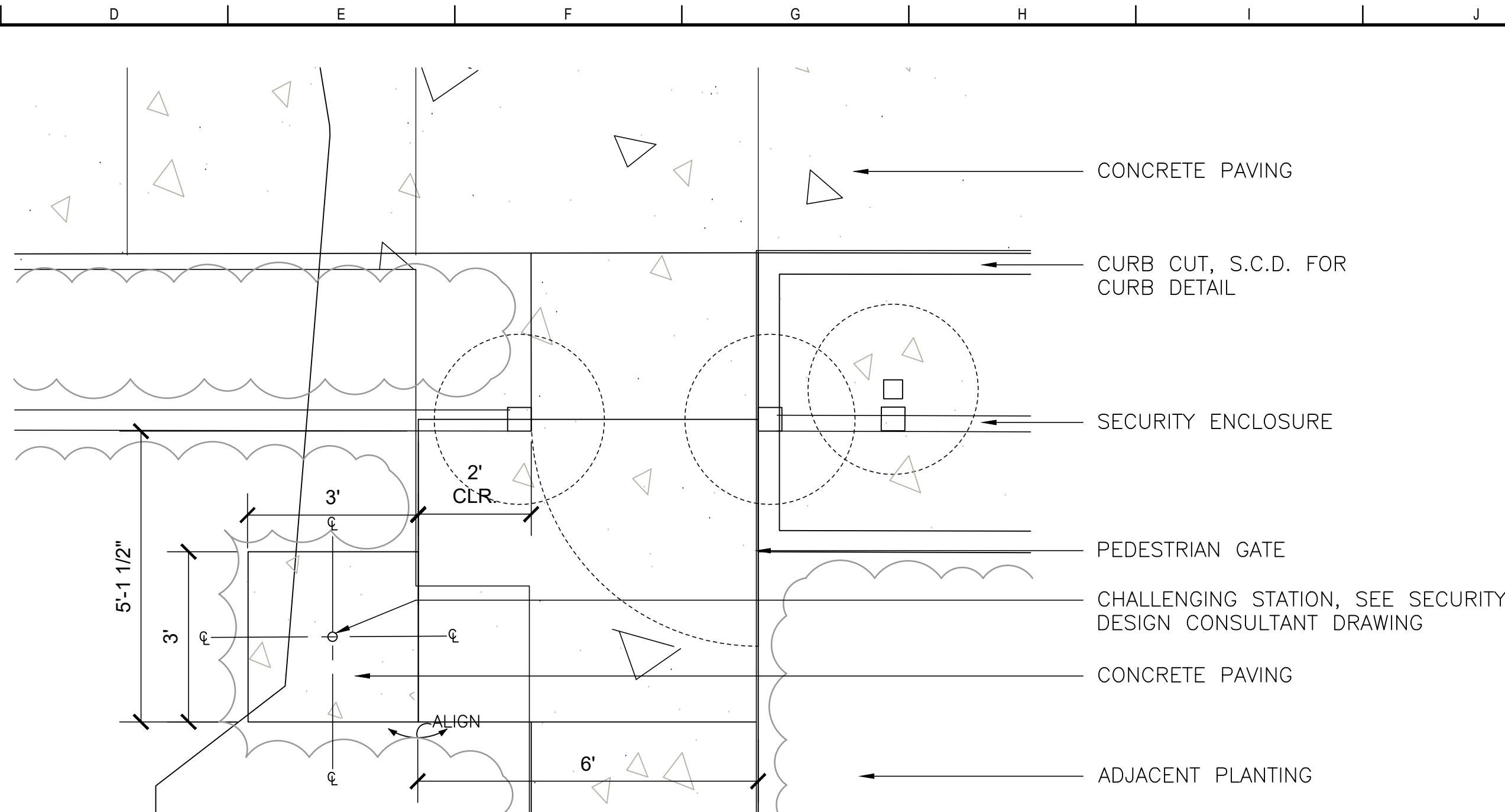
PROJECT ENGINEER	DRAWN
B WONG	V YUAN
PROJECT MANAGER	DESIGNED
T BROWN	J BECKMAN
APPROVED	CHECKED
J BECKMAN	J BECKMAN



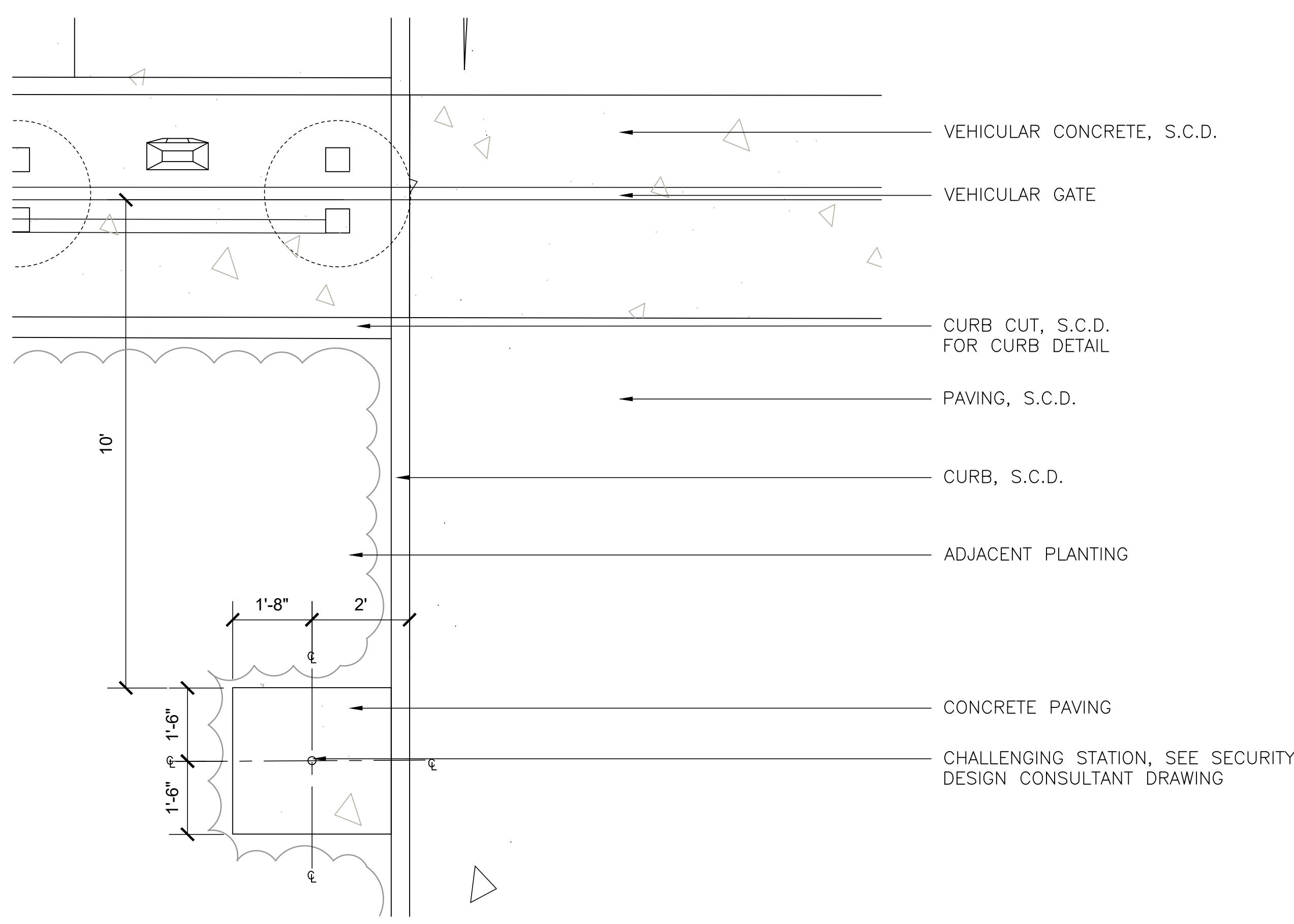
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ELEVATION DATUM  
 NAVD88  
 +100.00'



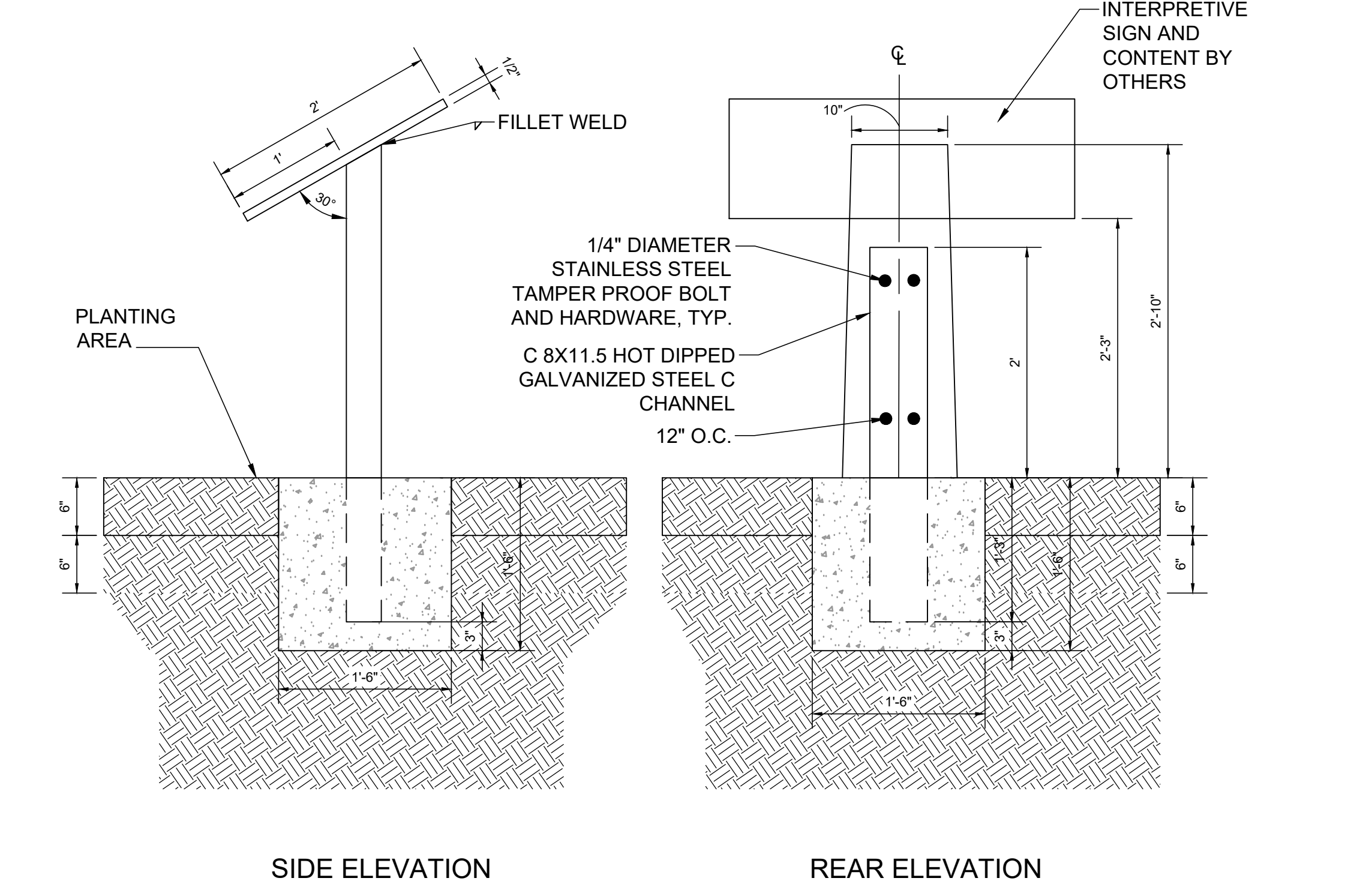
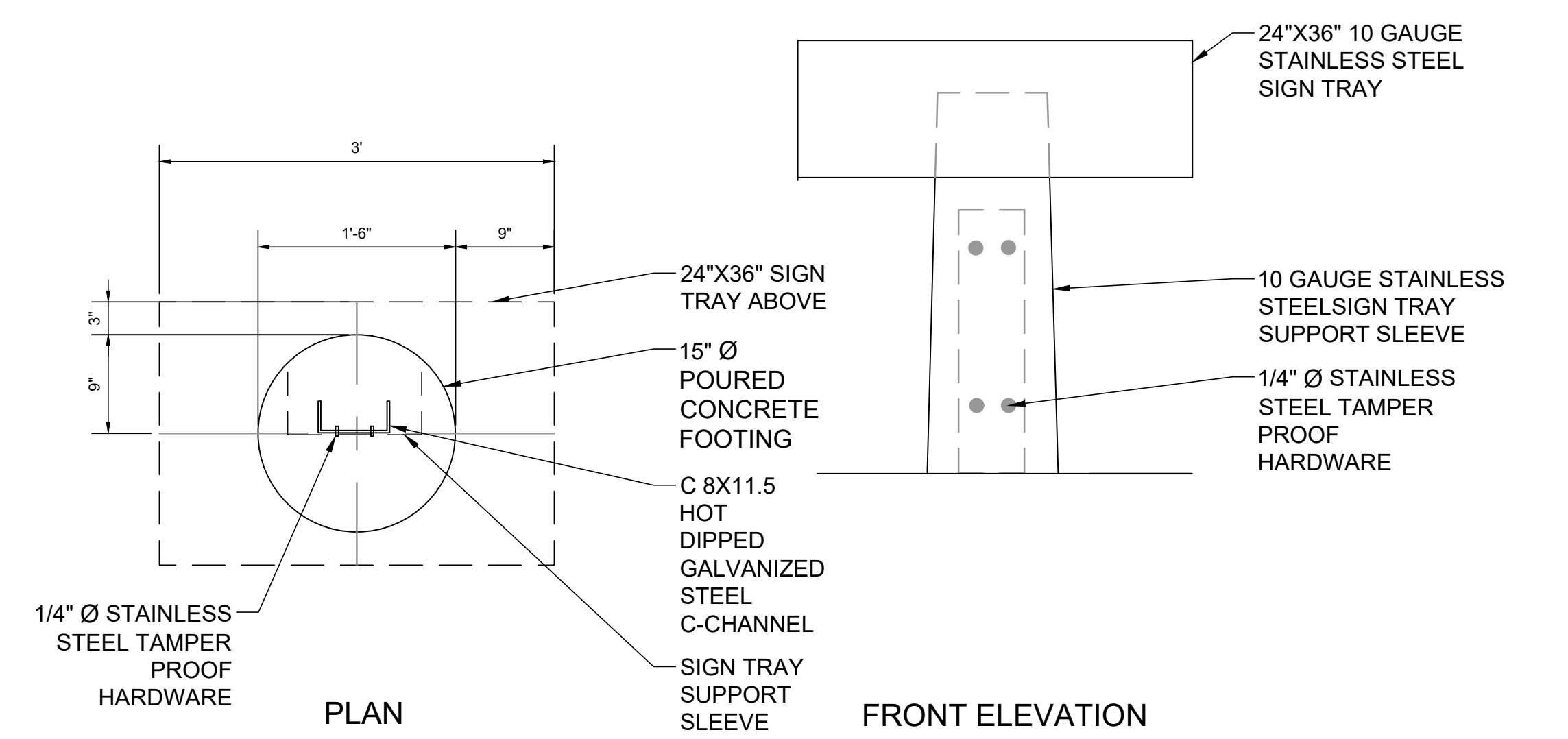


PEDESTRIAN GATE CHALLENGING STATION PLAN  
1/2" = 1'-0"



VEHICULAR LANE CHALLENGING STATION PLAN  
1/2" = 1'-0"

L-915 CHALLENGING STATIONS LAYOUT  
SCALE: 1/2" = 1'



L-916 DETENTION BASIN AND WETLAND SIGNAGE  
SCALE: 1/2" = 1'

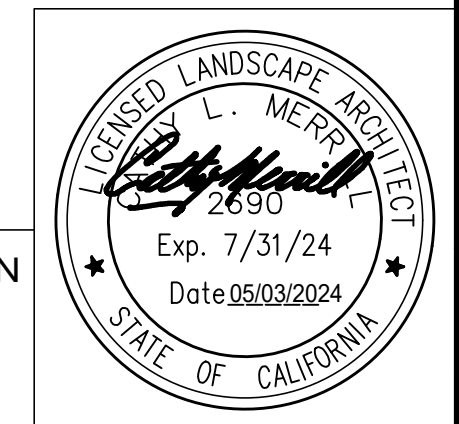
CIVIC DESIGN REVIEW

CONTRACT NO. DB-132  
CITY AND COUNTY OF SAN FRANCISCO  
**PUBLIC UTILITIES COMMISSION**  
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**LANDSCAPE CONSTRUCTION DETAILS 7 OF 7**

PROJECT ENGINEER		DRAWN	
PROJECT MANAGER		DESIGNED	
APPROVED		CHECKED	
NO.	DATE	DESCRIPTION	BY
REVISIONS			

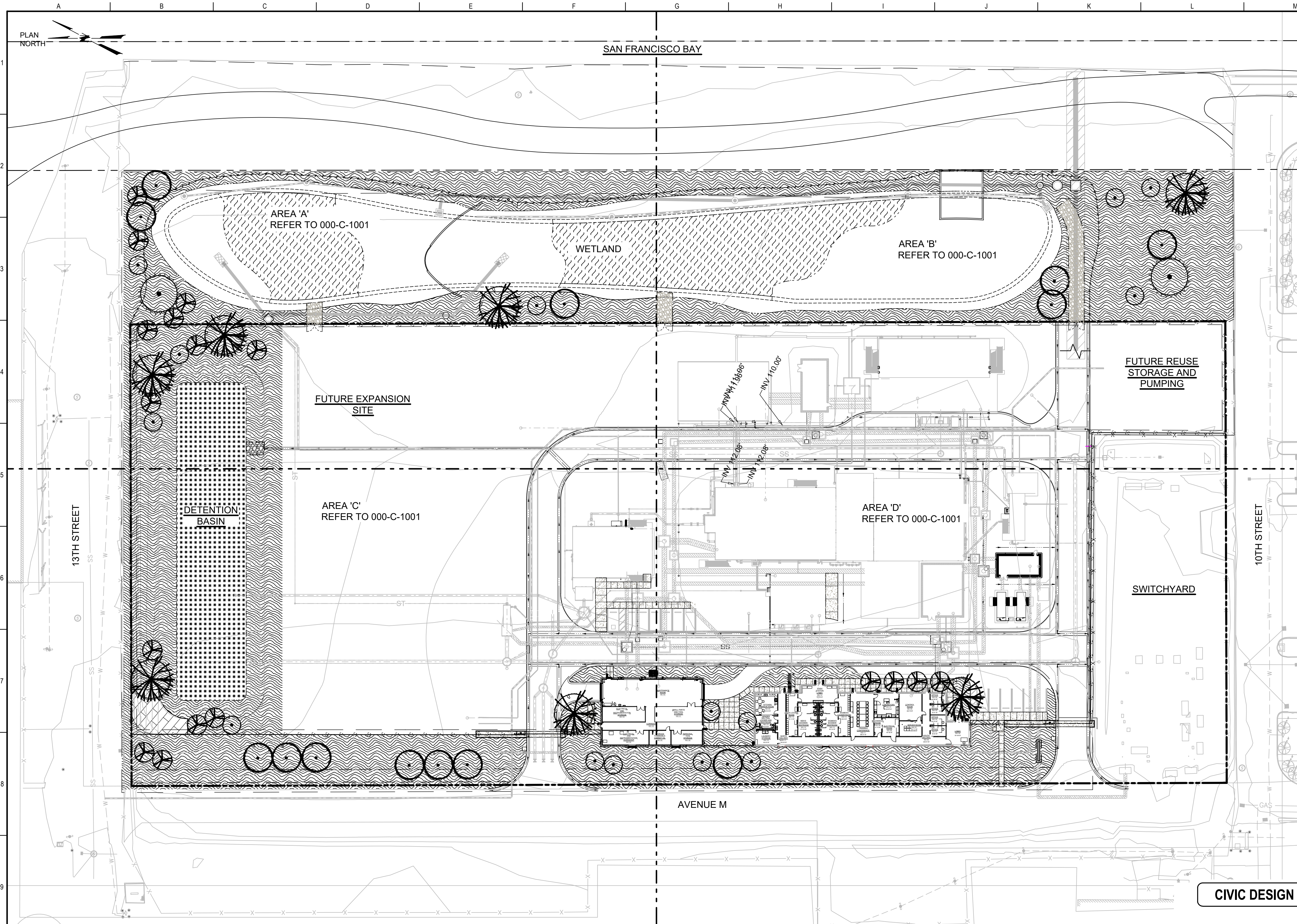
CHECKED / APPROVED	DRAWN
SECTION MANAGER	DESIGNED
WWE OPERATIONS MANAGER	SCALE
APPROVED	DATE
MANAGER, ENGINEERING MANAGEMENT BUREAU	WWE ENGINEERING MANAGER
PLAN NO.	DRAWING / FILE NO.
<b>L-5007</b>	<b>0</b>



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ELEVATION  
DATUM  
NAVD88  
+100.00'





- ### GENERAL SHEET NOTES
- REFER TO AREA 555 DRAWINGS FOR WETLAND DESIGN.
  - GEOMETRY OF WETLANDS WILL BE FURTHER REFINED IN DETAILED DESIGN STAGE ACCORDING TO TECHNICAL NARRATIVES PENDING SFPUC APPROVAL.
  - CONTRACTOR SHALL INSPECT THE SITE AND BE FAMILIAR WITH ALL EXISTING CONDITIONS PRIOR TO SUBMITTING HIS/HER BID.
  - THE CONTRACTOR SHALL VERIFY ALL PROPERTY AND LOT LINES, EXISTING CONDITIONS, UTILITIES, GRADES AND DIMENSIONS PRIOR TO THE START OF ANY WORK AND REPORT ANY DISCREPANCIES TO MERRILL MORRIS PARTNERS BEFORE PROCEEDING. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATION.
  - ALL WORK TO BE PERFORMED SHALL CONFORM TO ALL APPLICABLE LOCAL CODES AND ORDINANCES BY AN EXPERIENCED WORKPERSON AND A LICENSED LANDSCAPE CONTRACTOR.
  - THE CONTRACTOR SHALL COORDINATE ALL WORK TO PREVENT CONFLICTS BETWEEN TRADES AND SHALL REPORT ALL CONFLICTS OR INCONGRUITIES BETWEEN NEW IMPROVEMENTS AND EXISTING FACILITIES TO MERRILL MORRIS PARTNERS. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL UTILITIES AND STRUCTURES TO REMAIN, AND TO REPAIR OR REPLACE AT HIS/HER OWN EXPENSE ANY UTILITY LINES OR STRUCTURES DAMAGED DURING CONSTRUCTION WHETHER SHOWN OR NOT.
  - ALL PIPING, SLEEVES CONDUIT, ETC. SHALL BE INSTALLED PRIOR TO INSTALLATION OF CONSTRUCTION ITEMS.
  - THE SITE SHALL BE KEPT IN A NEAT, CLEAN AND ORDERLY MANNER DURING INSTALLATION AND ALL REFUSE SHALL BE REMOVED FROM THE SITE ON COMPLETION OF THE PROJECT.

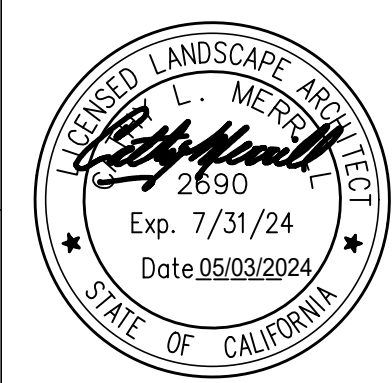
### ABBREVIATIONS

SYMBOL	DESCRIPTION
EQ	EQUAL
(E)	EXISTING
(N)	NEW
PA	PLANTING AREA
R	RADIUS
TYP	TYPICAL
(Symbol)	SCORE MARK
(Symbol)	EXPANSION JOINT
(Symbol)	EXPANSION JOINT W/ SEALANT
CL	CENTER LINE
CTR	CENTER
BLDG	BUILDING
CONT	CONTINUOUS
FOB	FACE OF BUILDING
FOW	FACE OF WALL
NTS	NOT TO SCALE
ROW	RIGHT OF WAY
W/	WITH
W/OUT	WITHOUT
S.A.D.	SEE ARCHITECT DRAWINGS
S.C.D.	SEE CIVIL DRAWINGS
S.E.D.	SEE ELECTRICAL DRAWINGS
S.S.D.	SEE STRUCTURAL DRAWINGS
FC	FACE OF CURB
BC	BACK OF CURB
BTC	BOTTOM OF CURB
TC	TOP OF CURB

**CIVIC DESIGN REVIEW**

PLAN  
1" = 40'

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PROJECT ENGINEER	B WONG	DRAWN	V YUAN
PROJECT MANAGER	T BROWN	DESIGNED	J BECKMAN
APPROVED	(Signature)	CHECKED	J BECKMAN
NO.	DATE	DESCRIPTION	BY
REVISIONS			

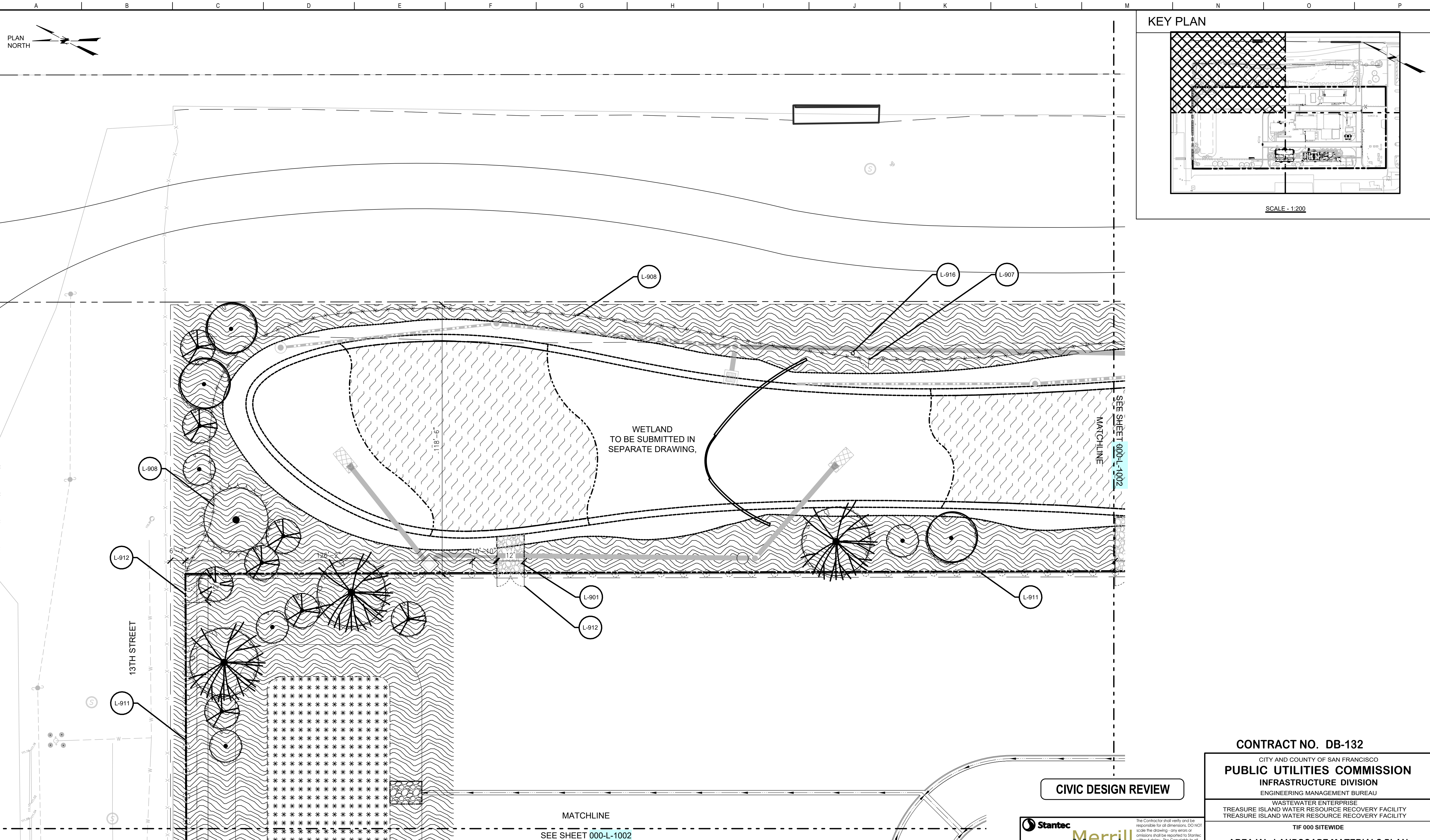


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ELEVATION  
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NAVD88  
+100.00'

<b>CONTRACT NO. DB-132</b>			
CITY AND COUNTY OF SAN FRANCISCO <b>PUBLIC UTILITIES COMMISSION</b> INFRASTRUCTURE DIVISION ENGINEERING MANAGEMENT BUREAU			
WASTEWATER ENTERPRISE TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY			
TIF 000 SITEWIDE <b>OVERALL SITE PLAN, GENERAL NOTES AND ABBREVIATIONS</b>			
CHECKED / APPROVED	DRAWN		DATE
SECTION MANAGER	DESIGNED		05/03/2024
WWE OPERATIONS MANAGER	SCALE	1"=40'-0"	
APPROVED	APPROVED		
MANAGER, ENGINEERING MANAGEMENT BUREAU		WWE ENGINEERING MANAGER	
PLAN NO.	DRAWING / FILE NO.	REVISION NO.	
<b>000-L-1000</b>		<b>0</b>	





**CIVIC DESIGN REVIEW**

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TIF 000 SITEWIDE  
**AREA 'A' - LANDSCAPE MATERIALS PLAN**

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PROJECT ENGINEER	B WONG	DRAWN	V YUAN
PROJECT MANAGER	T BROWN	DESIGNED	J BECKMAN
APPROVED		CHECKED	J BECKMAN
NO.	DATE	DESCRIPTION	BY
REVISIONS			

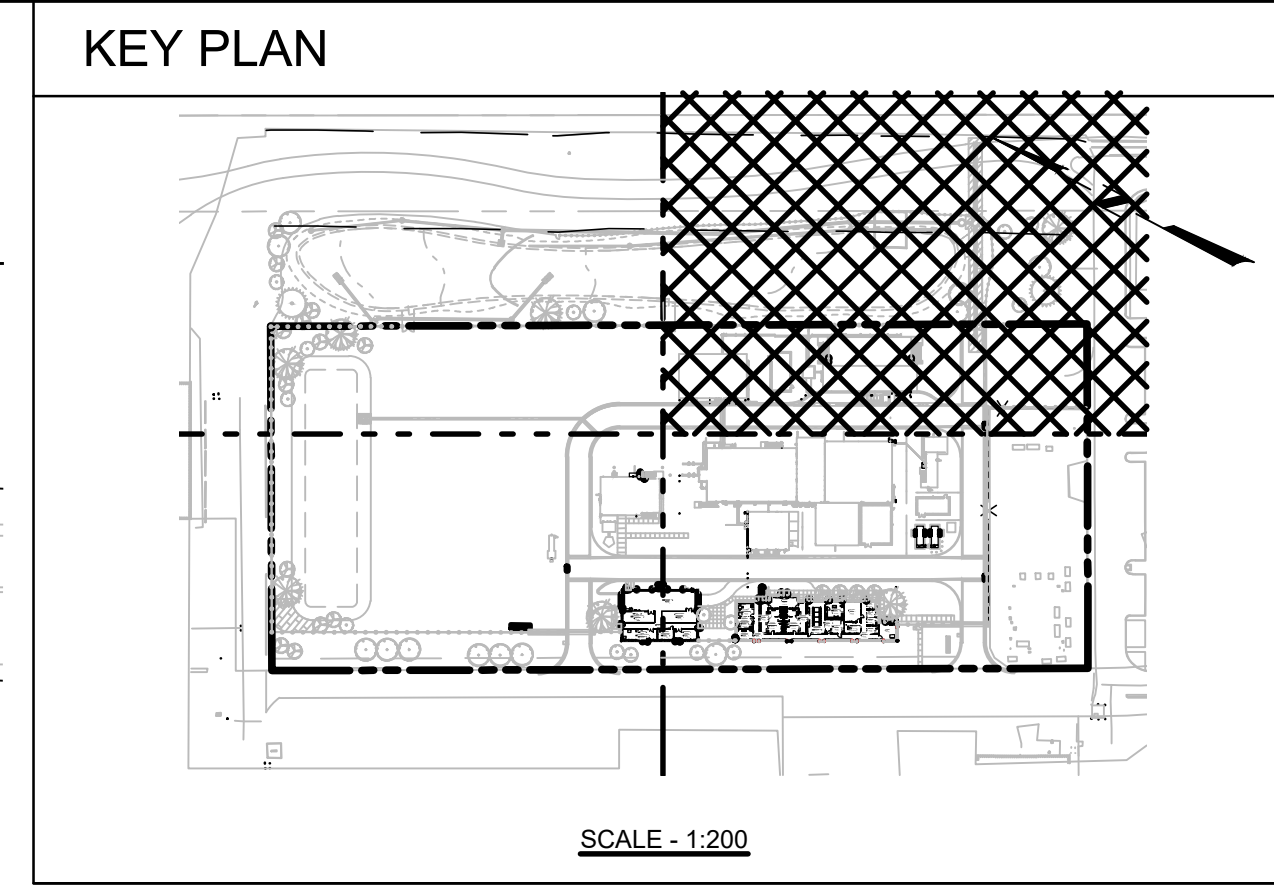
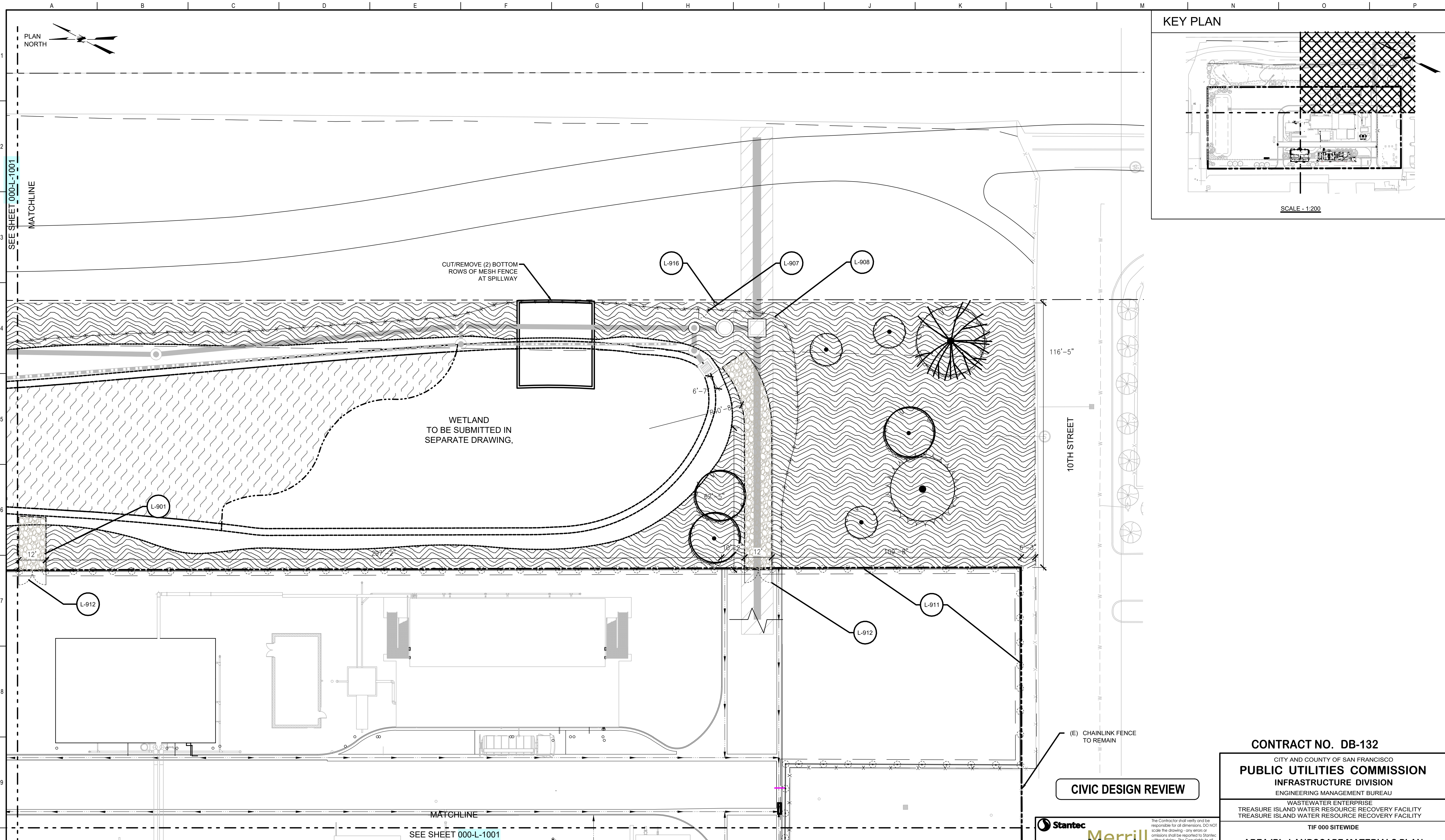
CHECKED / APPROVED	DRAWN
SECTION MANAGER	DESIGNED
WWE OPERATIONS MANAGER	SCALE 1"=20'-0"
DATE	05/03/2024
APPROVED	APPROVED
MANAGER, ENGINEERING MANAGEMENT BUREAU	WWE ENGINEERING MANAGER
PLAN NO.	DRAWING / FILE NO.
<b>000-L-1001</b>	<b>0</b>



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**PLAN**  
 1" = 20'  
**ELEVATION**  
 DATUM  
 NAVD88  
 +100.00'





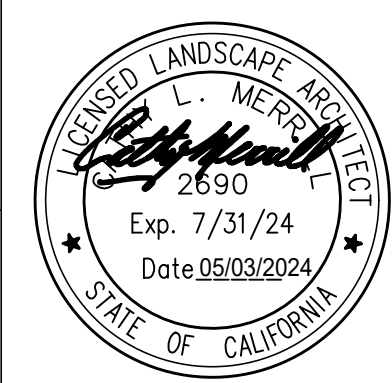
**CIVIC DESIGN REVIEW**

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 TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY

TIF 000 SITEWIDE  
**AREA 'B' - LANDSCAPE MATERIALS PLAN**

**PLAN**  
 1" = 20'

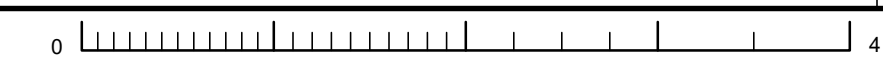
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 +100.00'



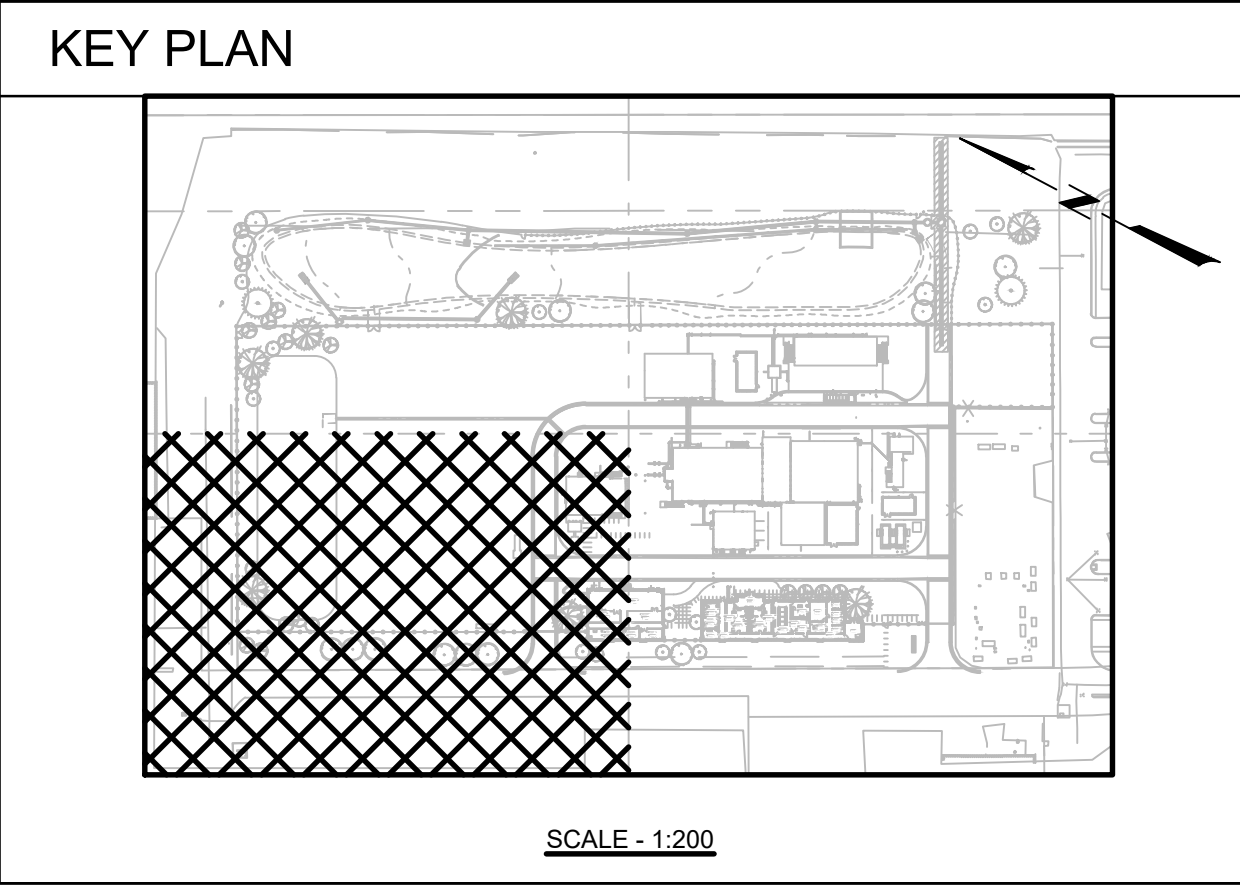
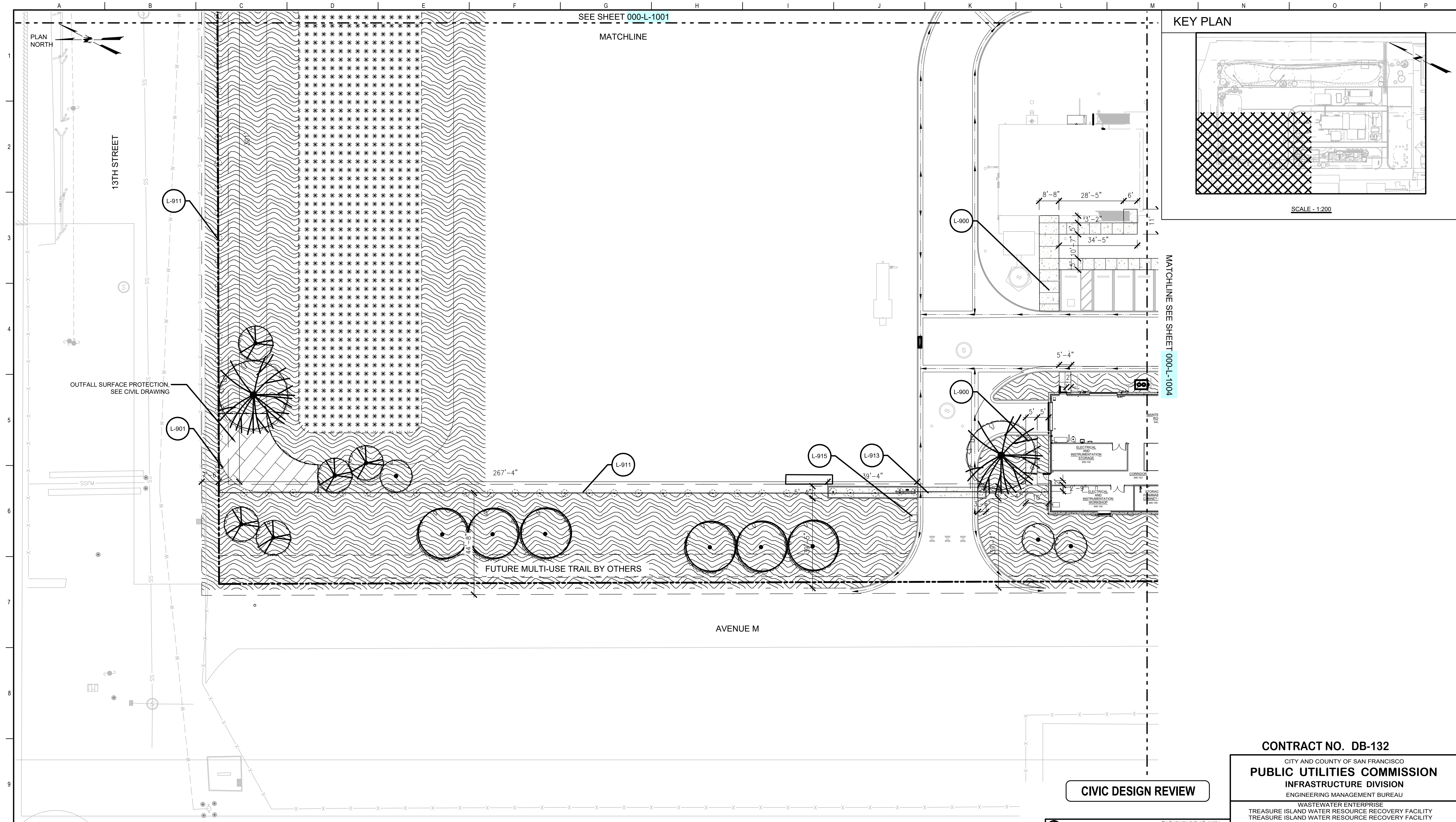
<b>Stantec</b>		<b>Merrill</b> Merrill Morris Partners	
PROJECT ENGINEER	B WONG	DRAWN	V YUAN
PROJECT MANAGER	T BROWN	DESIGNED	J BECKMAN
APPROVED		CHECKED	J BECKMAN
NO.	DATE	DESCRIPTION	BY
REVISIONS			

CHECKED / APPROVED	DRAWN
SECTION MANAGER	DESIGNED
WWE OPERATIONS MANAGER	SCALE 1"=20'-0"
APPROVED	DATE 05/03/2024
MANAGER, ENGINEERING MANAGEMENT BUREAU	WWE ENGINEERING MANAGER
PLAN NO. <b>000-L-1002</b>	DRAWING / FILE NO. <b>0</b>

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MATCHLINE SEE SHEET 000-L-1004

**CIVIC DESIGN REVIEW**

**CONTRACT NO. DB-132**  
 CITY AND COUNTY OF SAN FRANCISCO  
**PUBLIC UTILITIES COMMISSION**  
 INFRASTRUCTURE DIVISION  
 ENGINEERING MANAGEMENT BUREAU  
 WASTEWATER ENTERPRISE  
 TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY  
 TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY

TIF 000 SITEWIDE  
**AREA 'C' - LANDSCAPE MATERIALS PLAN**

CHECKED / APPROVED	DRAWN
SECTION MANAGER	DESIGNED
WWE OPERATIONS MANAGER	SCALE 1"=20'-0"
DATE	05/03/2024
APPROVED	APPROVED
MANAGER, ENGINEERING MANAGEMENT BUREAU	WWE ENGINEERING MANAGER
PLAN NO. <b>000-L-1003</b>	DRAWING / FILE NO.
REVISION NO. <b>0</b>	

<b>Stantec</b>		<b>Merrill</b>	
Merrill Morris Partners		Merrill Morris Partners	
PROJECT ENGINEER	B WONG	DRAWN	V YUAN
PROJECT MANAGER	T BROWN	DESIGNED	J BECKMAN
APPROVED		CHECKED	J BECKMAN
NO.	DATE	DESCRIPTION	BY
REVISIONS			

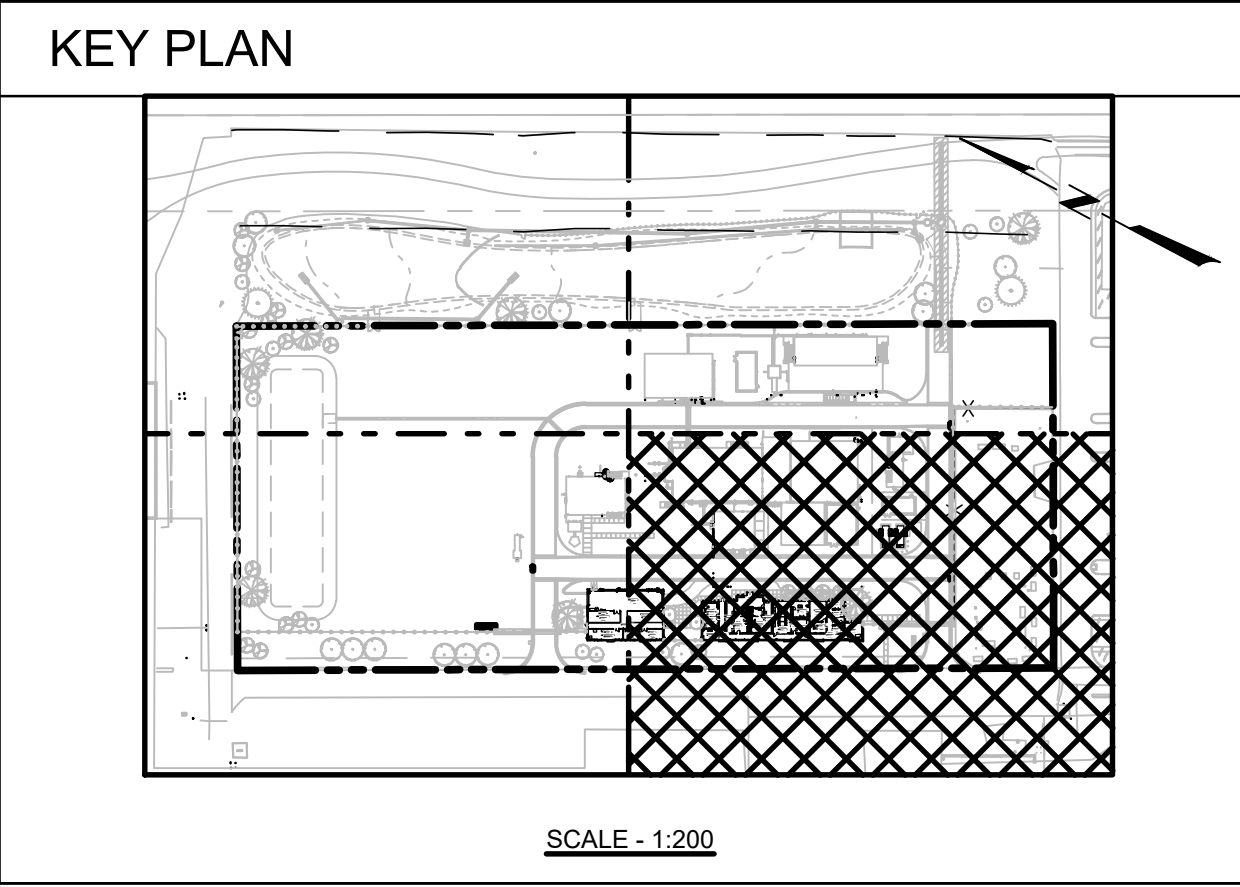
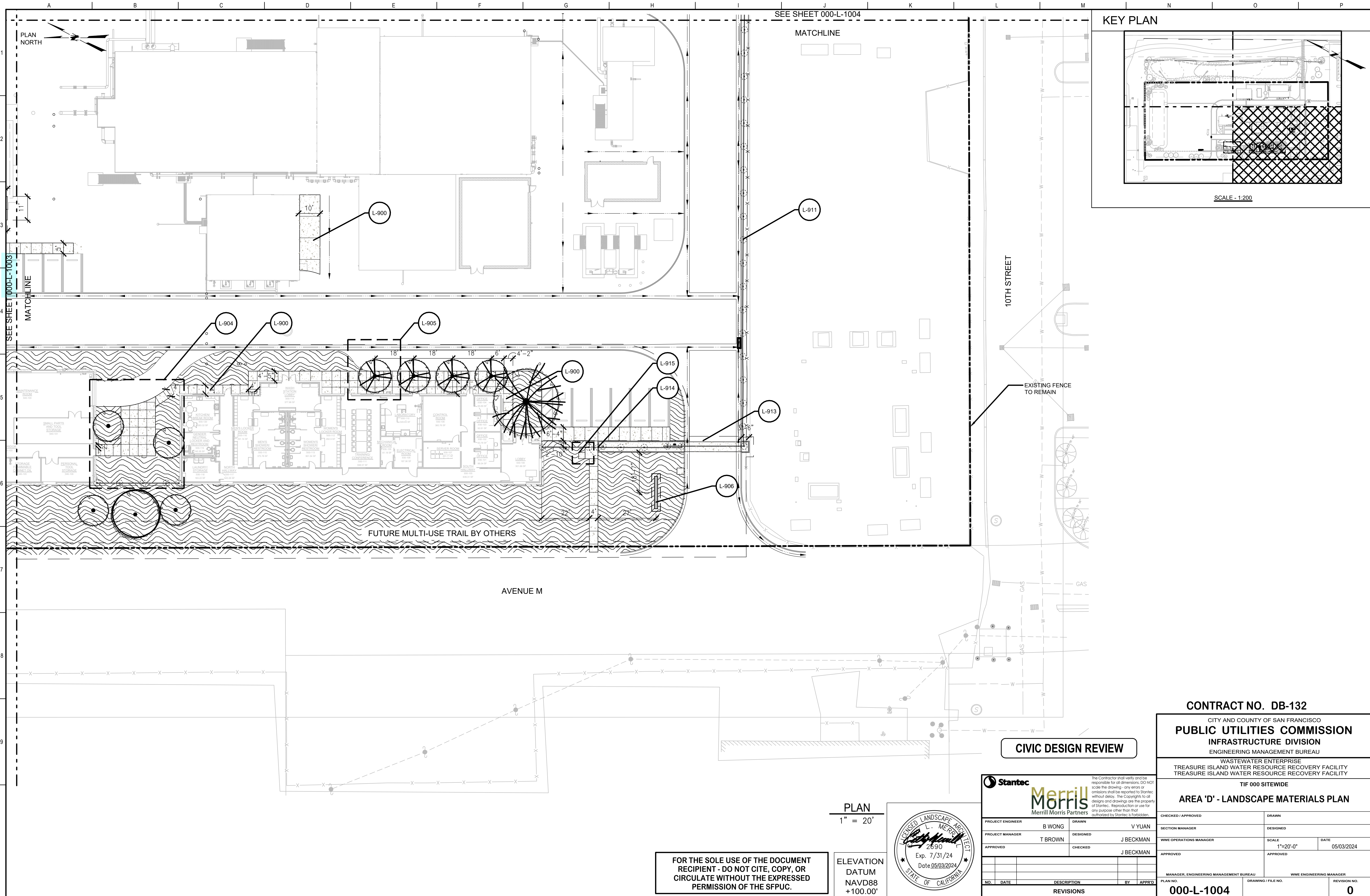


**PLAN**  
1" = 20'

**ELEVATION**  
DATUM  
NAVD88  
+100.00'

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10TH STREET

AVENUE M

CIVIC DESIGN REVIEW

PLAN  
1" = 20'

ELEVATION  
DATUM  
NAVD88  
+100.00'

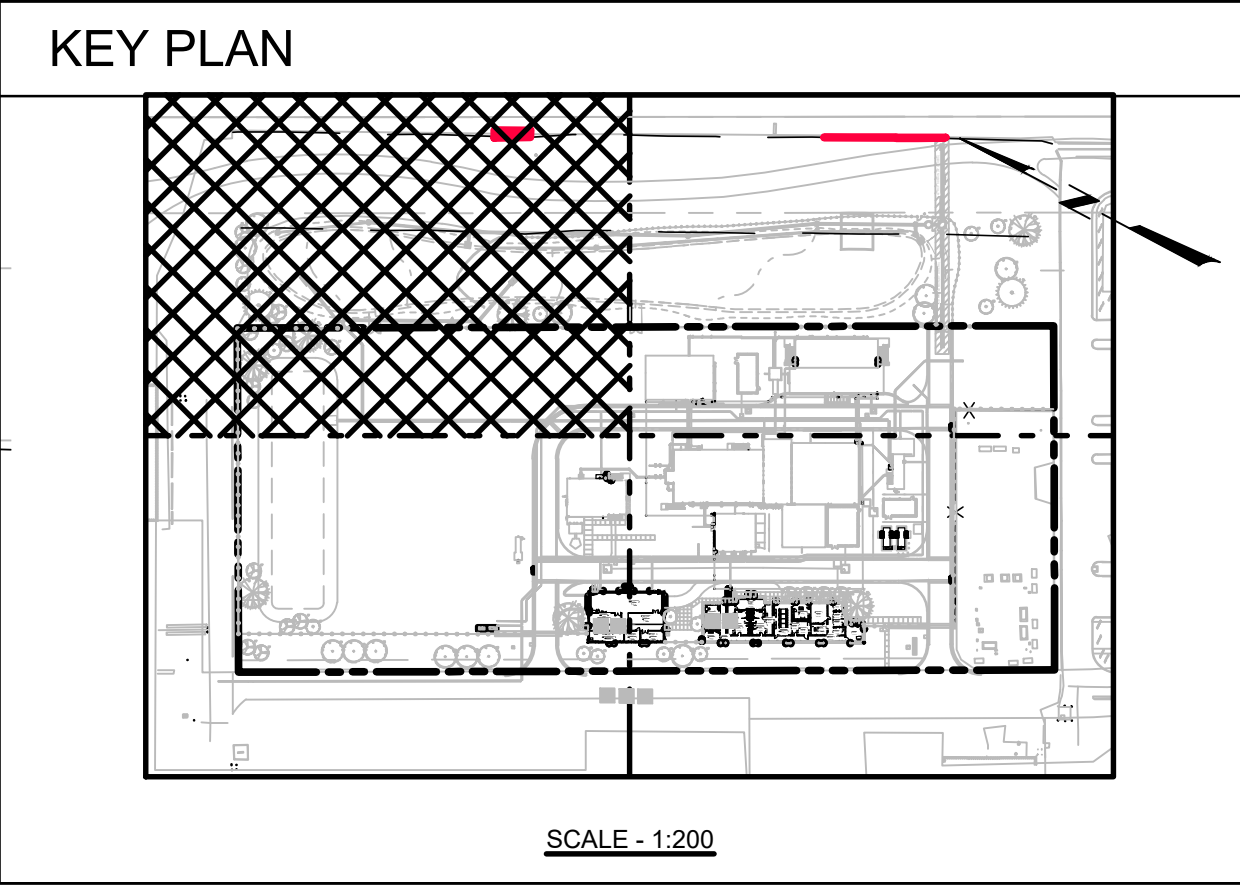
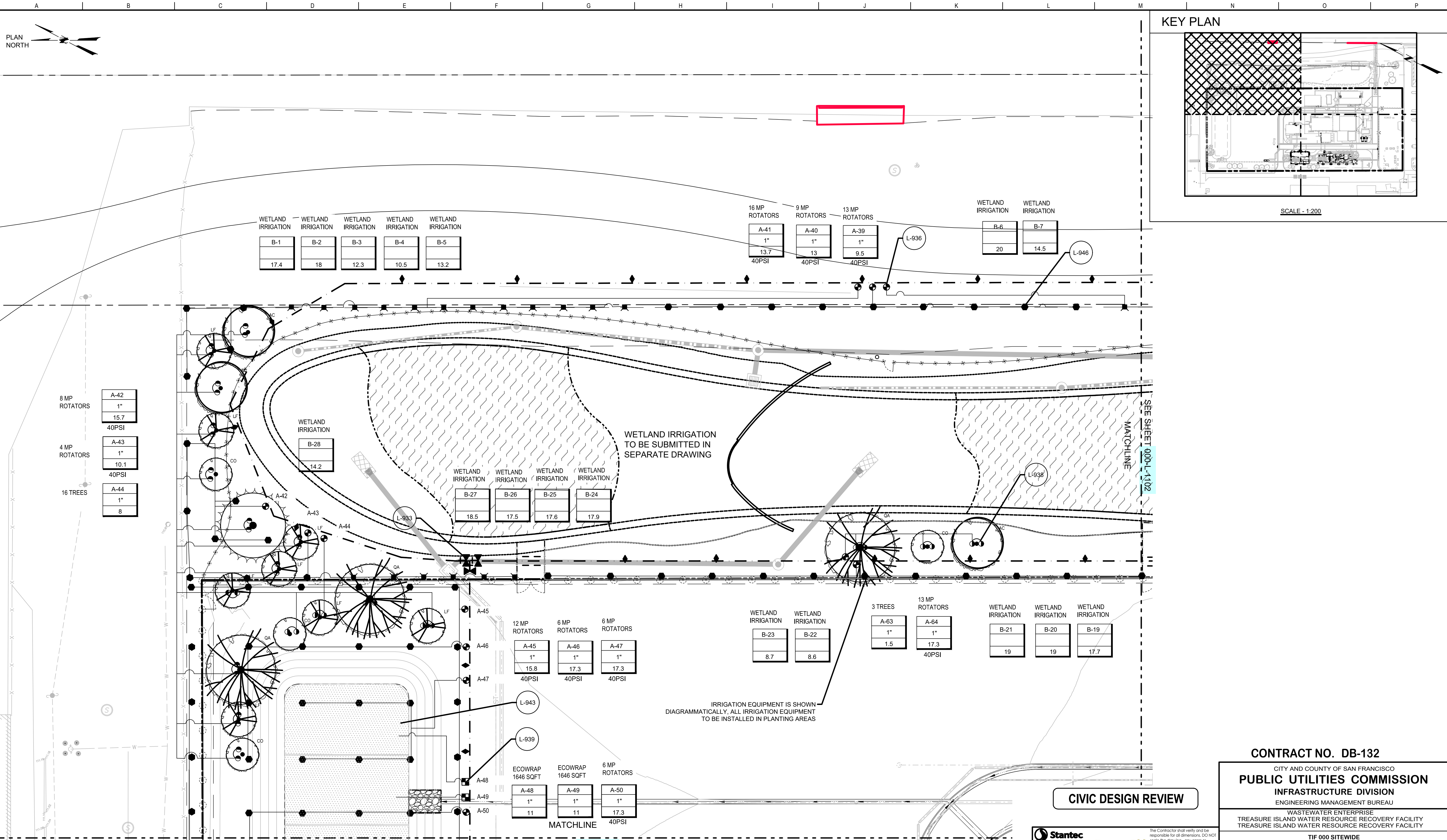
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<b>Stantec</b>		<b>Merrill</b> Merrill Morris Partners	
PROJECT ENGINEER	B WONG	DRAWN	V YUAN
PROJECT MANAGER	T BROWN	DESIGNED	J BECKMAN
APPROVED		CHECKED	J BECKMAN
NO.	DATE	DESCRIPTION	BY
REVISIONS			

<b>CONTRACT NO. DB-132</b>			
CITY AND COUNTY OF SAN FRANCISCO			
<b>PUBLIC UTILITIES COMMISSION</b>			
INFRASTRUCTURE DIVISION			
ENGINEERING MANAGEMENT BUREAU			
WASTEWATER ENTERPRISE			
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY			
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY			
TIF 000 SITEWIDE			
<b>AREA 'D' - LANDSCAPE MATERIALS PLAN</b>			
CHECKED / APPROVED	DRAWN		
SECTION MANAGER	DESIGNED		
WWE OPERATIONS MANAGER	SCALE	DATE	
APPROVED	1"=20'-0"	05/03/2024	
MANAGER, ENGINEERING MANAGEMENT BUREAU	WWE ENGINEERING MANAGER		
PLAN NO.	DRAWING / FILE NO.	REVISION NO.	
<b>000-L-1004</b>		<b>0</b>	





WETLAND IRRIGATION	WETLAND IRRIGATION	WETLAND IRRIGATION	WETLAND IRRIGATION	WETLAND IRRIGATION
B-1	B-2	B-3	B-4	B-5
17.4	18	12.3	10.5	13.2

16 MP ROTATORS	9 MP ROTATORS	13 MP ROTATORS	WETLAND IRRIGATION	WETLAND IRRIGATION
A-41	A-40	A-39	B-6	B-7
1" 13.7	1" 13	1" 9.5	20	14.5
40PSI	40PSI	40PSI		

8 MP ROTATORS	A-42
	1" 15.7
	40PSI
4 MP ROTATORS	A-43
	1" 10.1
	40PSI
16 TREES	A-44
	1" 8

WETLAND IRRIGATION	WETLAND IRRIGATION	WETLAND IRRIGATION	WETLAND IRRIGATION
B-27	B-26	B-25	B-24
18.5	17.5	17.6	17.9

12 MP ROTATORS	6 MP ROTATORS	6 MP ROTATORS
A-45	A-46	A-47
1" 15.8	1" 17.3	1" 17.3
40PSI	40PSI	40PSI

WETLAND IRRIGATION	WETLAND IRRIGATION	3 TREES	13 MP ROTATORS	WETLAND IRRIGATION	WETLAND IRRIGATION	WETLAND IRRIGATION
B-23	B-22	A-63	A-64	B-21	B-20	B-19
8.7	8.6	1" 1.5	1" 17.3	19	19	17.7
			40PSI			

ECOWRAP 1646 SQFT	ECOWRAP 1646 SQFT	6 MP ROTATORS
A-48	A-49	A-50
1" 11	1" 11	1" 17.3
		40PSI

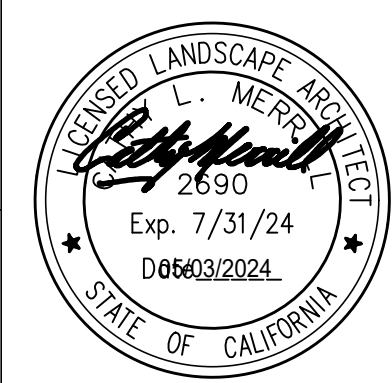
IRRIGATION EQUIPMENT IS SHOWN DIAGRAMMATICALLY. ALL IRRIGATION EQUIPMENT TO BE INSTALLED IN PLANTING AREAS

CIVIC DESIGN REVIEW

CONTRACT NO. DB-132  
 CITY AND COUNTY OF SAN FRANCISCO  
**PUBLIC UTILITIES COMMISSION**  
 INFRASTRUCTURE DIVISION  
 ENGINEERING MANAGEMENT BUREAU  
 WASTEWATER ENTERPRISE  
 TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY  
 TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY

TIF 000 SITEWIDE  
**AREA 'A' - IRRIGATION PLAN**

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PROJECT ENGINEER	B WONG	DRAWN	V YUAN
PROJECT MANAGER	T BROWN	DESIGNED	J BECKMAN
APPROVED		CHECKED	J BECKMAN
NO.	DATE	DESCRIPTION	BY
REVISIONS			



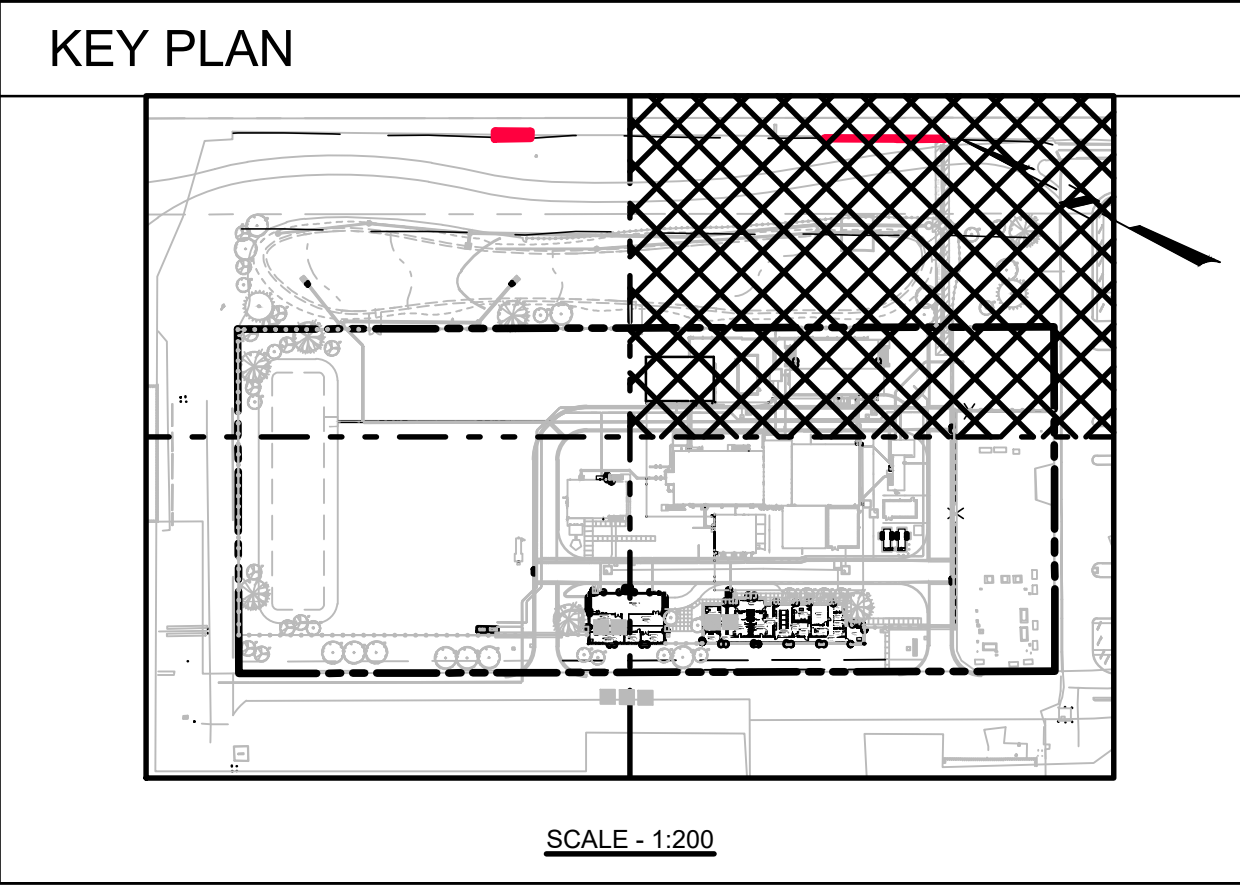
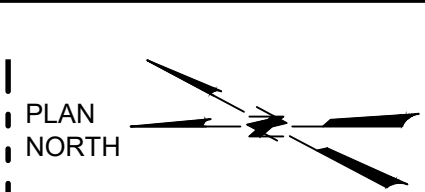
PLAN  
 1" = 20'

ELEVATION  
 DATUM  
 NAVD88  
 +100.00'

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CHECKED / APPROVED	DRAWN	
SECTION MANAGER	DESIGNED	
WWE OPERATIONS MANAGER	SCALE	DATE
APPROVED	APPROVED	05/03/2024
MANAGER, ENGINEERING MANAGEMENT BUREAU	WWE ENGINEERING MANAGER	
PLAN NO.	DRAWING / FILE NO.	REVISION NO.
<b>000-L-1101</b>		<b>0</b>

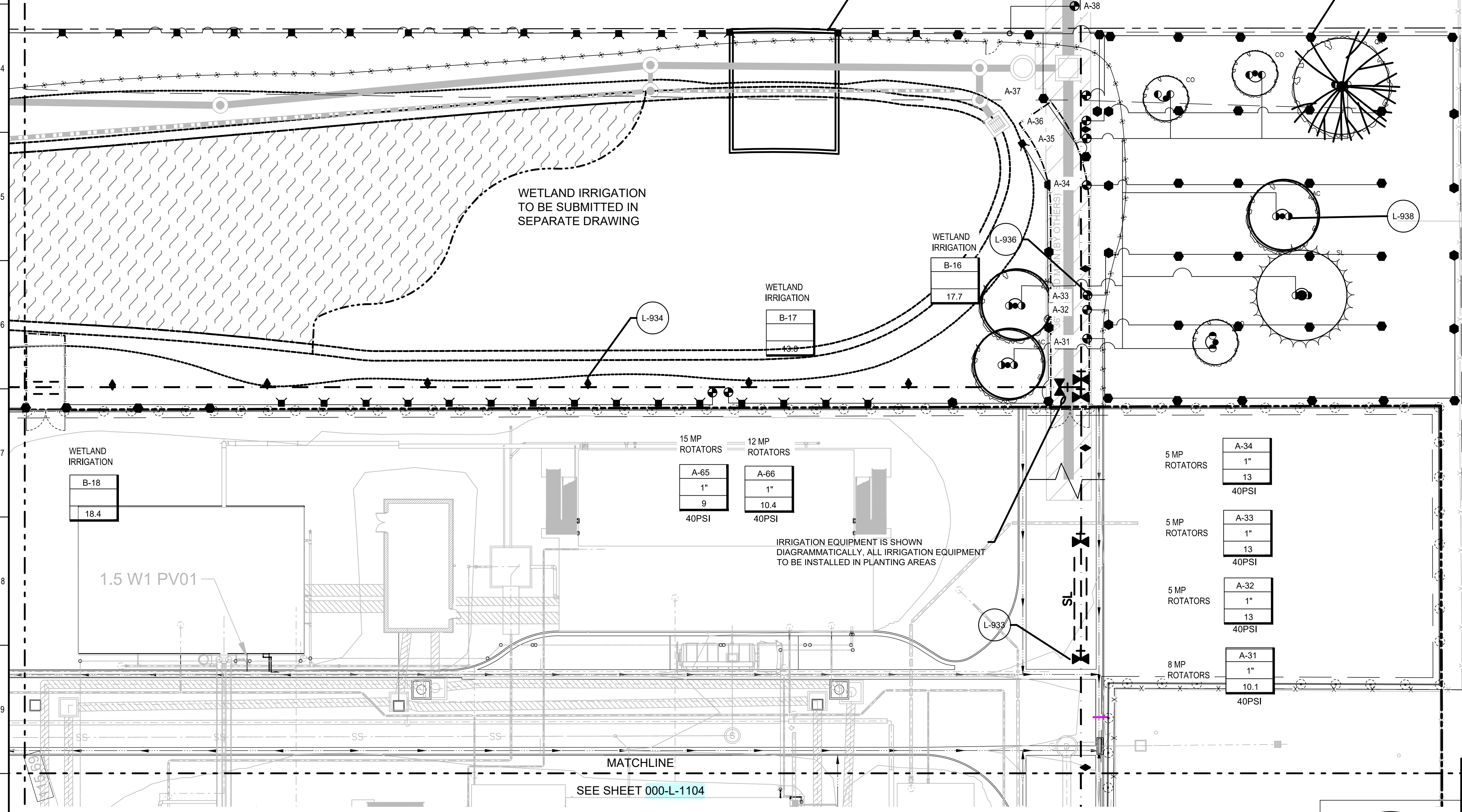




SEE SHEET 000-L-1101  
MATCHLINE

WETLAND IRRIGATION				WETLAND IRRIGATION			
B-8	B-9	B-10	B-11	B-12	B-13	B-14	B-15
18.1	17.8	17.4	18.1	14.8	17.3	18.1	18.6

12 MP ROTATORS		8 MP ROTATORS		5 MP ROTATORS		8 TREES	
A-38	A-37	A-36	A-35	A-34	A-33	A-32	A-31
1" 11.5	1" 10.1	1" 13	1" 4	1" 13	1" 13	1" 13	1" 10.1
40PSI	40PSI	40PSI		40PSI	40PSI	40PSI	40PSI



10TH STREET

MATCHLINE  
SEE SHEET 000-L-1104

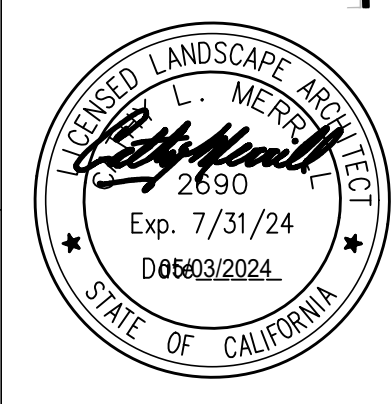
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**CONTRACT NO. DB-132**  
CITY AND COUNTY OF SAN FRANCISCO  
**PUBLIC UTILITIES COMMISSION**  
INFRASTRUCTURE DIVISION  
ENGINEERING MANAGEMENT BUREAU  
WASTEWATER ENTERPRISE  
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY  
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY

TIF 000 SITEWIDE  
**AREA 'B' - IRRIGATION PLAN**

PLAN  
1" = 20'

ELEVATION  
DATUM  
NAVD88  
+100.00'



<b>Stantec</b>		<b>Merrill</b> Merrill Morris Partners	
PROJECT ENGINEER	B WONG	DRAWN	V YUAN
PROJECT MANAGER	T BROWN	DESIGNED	J BECKMAN
APPROVED		CHECKED	J BECKMAN
NO.	DATE	DESCRIPTION	BY
REVISIONS			

CHECKED / APPROVED	DRAWN
SECTION MANAGER	DESIGNED
WWE OPERATIONS MANAGER	SCALE
DATE	05/03/2024
APPROVED	APPROVED
MANAGER, ENGINEERING MANAGEMENT BUREAU	WWE ENGINEERING MANAGER
PLAN NO.	DRAWING / FILE NO.
<b>000-L-1102</b>	<b>0</b>

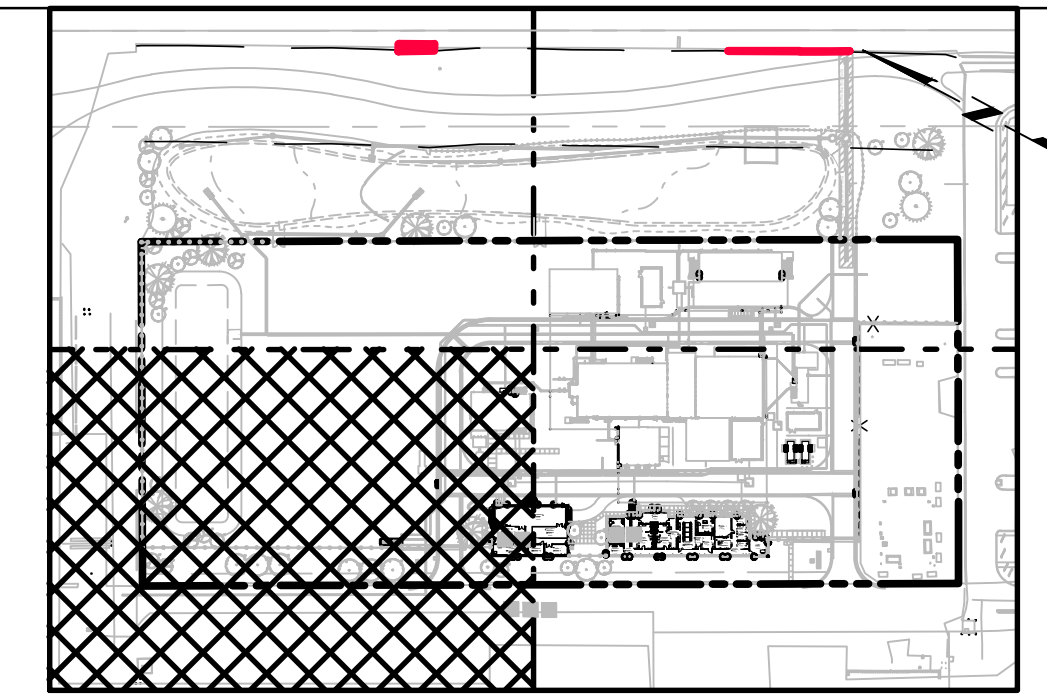
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SEE SHEET 000-L-1101

MATCHLINE

KEY PLAN



SCALE - 1:200

PLAN NORTH

13TH STREET

IRRIGATION EQUIPMENT IS SHOWN DIAGMATICALLY. ALL IRRIGATION EQUIPMENT TO BE INSTALLED IN PLANTING AREAS

POC REFER TO CIVIL FOR METER AND BACKFLOW

ECOMAT	ECOMAT
A-1	A-2
1"	1"
14.12	14.12

ECOWRAP 1646 SQFT	6 MP ROTATORS	ECOWRAP 1646 SQFT
A-51	A-52	A-53
1"	1"	1"
11	17.3	11
40PSI		

12 MP ROTATORS	6 MP ROTATORS	6 MP ROTATORS
A-54	A-55	A-56
1"	1"	1"
15.8	17.3	17.3
40PSI		

ECOWRAP 1646 SQFT	6 MP ROTATORS	ECOWRAP 1646 SQFT	ECOWRAP 1646 SQFT
A-57	A-58	A-59	A-60
1"	1"	1"	1"
11	17.3	11	11
40PSI			

6 MP ROTATORS	12 MP ROTATORS
A-61	A-62
1"	1"
15.8	17.3
40PSI	

ECOMAT	ECOMAT
A-8	A-9
1"	1"
14.12	14.12

ECOMAT	ECOMAT
A-14	A-15
1"	1"
6.02	10.4

8 MP ROTATORS	TREES	5 MP ROTATORS
A-3	A-4	A-5
1"	1"	1"
10.8	14.4	14.4
40PSI		

5 MP ROTATORS	8 MP ROTATORS
A-6	A-7
1"	1"
14.4	10.8
40PSI	

ECOMAT	8 MP ROTATORS	4 MP ROTATORS	7 MP ROTATORS
A-10	A-11	A-12	A-13
1"	1"	1"	1"
14.12	10.8	11.5	10.1
40PSI			

17 MP ROTATORS	11 MP ROTATORS
A-16	A-17
1"	1"
8.8	13.2
40PSI	

CIVIC DESIGN REVIEW

CONTRACT NO. DB-132

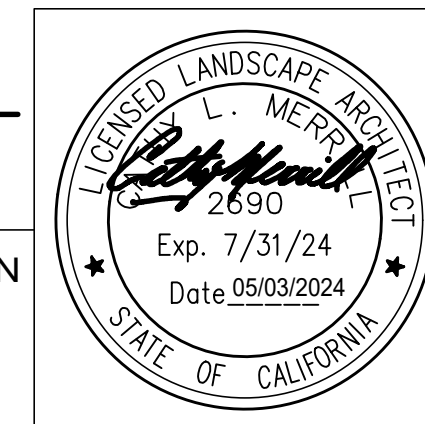
CITY AND COUNTY OF SAN FRANCISCO  
PUBLIC UTILITIES COMMISSION  
INFRASTRUCTURE DIVISION  
ENGINEERING MANAGEMENT BUREAU

WASTEWATER ENTERPRISE  
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY  
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY

TIF 000 SITEWIDE

AREA 'C' - IRRIGATION PLAN

PROJECT ENGINEER	B WONG	DRAWN	V YUAN
PROJECT MANAGER	T BROWN	DESIGNED	J BECKMAN
APPROVED		CHECKED	J BECKMAN
NO.		DATE	
REVISIONS			



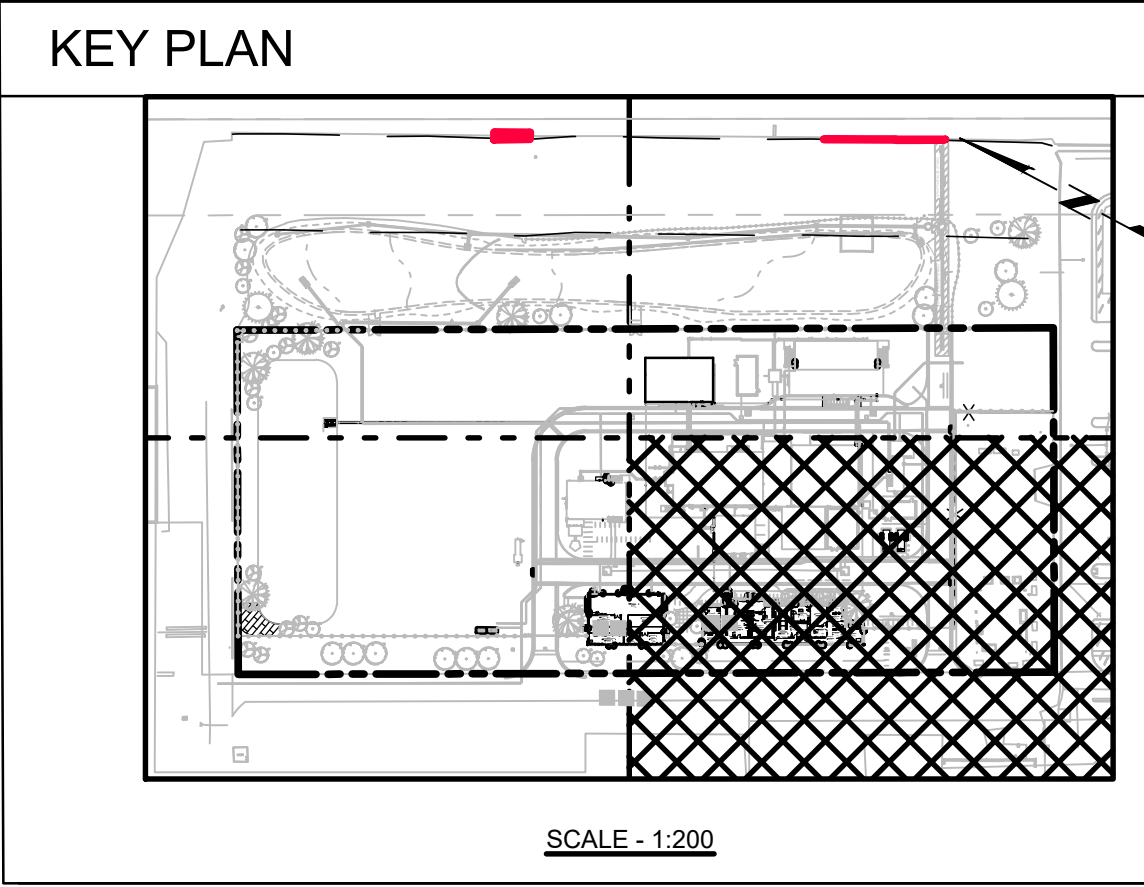
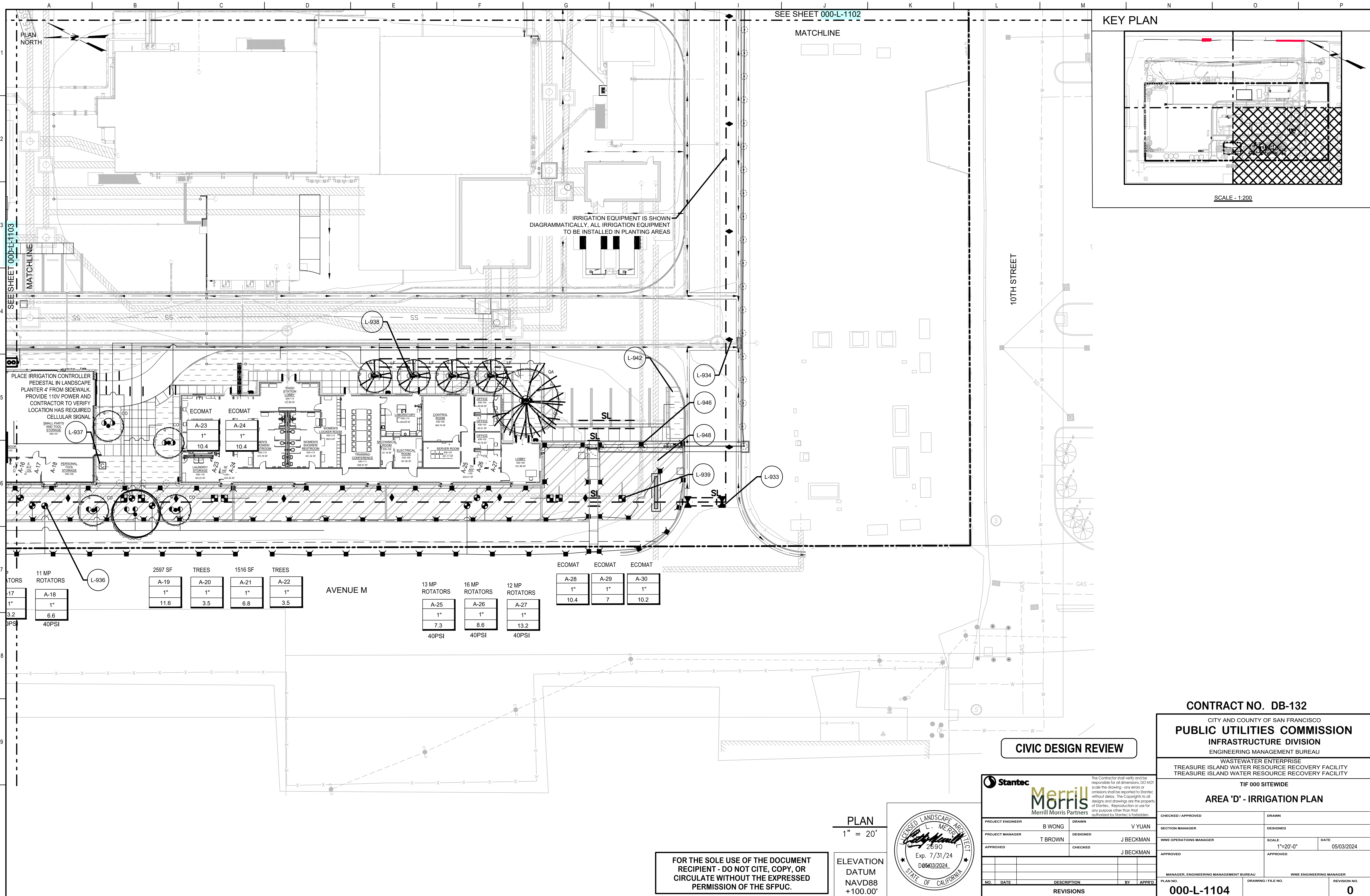
PLAN  
1" = 20'

ELEVATION  
DATUM  
NAVD88  
+100.00'

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CHECKED / APPROVED	DRAWN	
SECTION MANAGER	DESIGNED	
WWW OPERATIONS MANAGER	SCALE	DATE
APPROVED	APPROVED	05/03/2024
MANAGER, ENGINEERING MANAGEMENT BUREAU		WWW ENGINEERING MANAGER
PLAN NO.	DRAWING / FILE NO.	REVISION NO.
000-L-1103		0





IRRIGATION EQUIPMENT IS SHOWN DIAGRAMMATICALLY. ALL IRRIGATION EQUIPMENT TO BE INSTALLED IN PLANTING AREAS

PLACE IRRIGATION CONTROLLER PEDESTAL IN LANDSCAPE PLANTER 4' FROM SIDEWALK. PROVIDE 110V POWER AND CONTRACTOR TO VERIFY LOCATION HAS REQUIRED CELLULAR SIGNAL

11 MP ROTATORS	2597 SF	TREES	1516 SF	TREES
A-18 1"	A-19 1"	A-20 1"	A-21 1"	A-22 1"
6.6	11.6	3.5	6.8	3.5

13 MP ROTATORS	16 MP ROTATORS	12 MP ROTATORS
A-25 1"	A-26 1"	A-27 1"
7.3	8.6	13.2

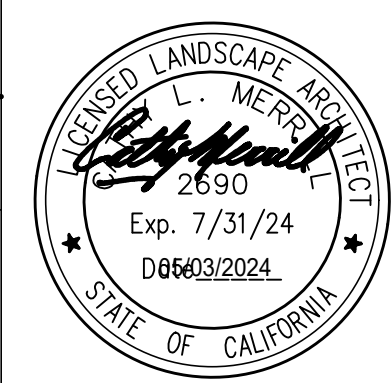
ECOMAT	ECOMAT	ECOMAT
A-28 1"	A-29 1"	A-30 1"
10.4	7	10.2

CIVIC DESIGN REVIEW

CONTRACT NO. DB-132  
CITY AND COUNTY OF SAN FRANCISCO  
PUBLIC UTILITIES COMMISSION  
INFRASTRUCTURE DIVISION  
ENGINEERING MANAGEMENT BUREAU  
WASTEWATER ENTERPRISE  
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY  
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY

TIF 000 SITEWIDE  
AREA 'D' - IRRIGATION PLAN

PROJECT ENGINEER	B WONG	DRAWN	V YUAN
PROJECT MANAGER	T BROWN	DESIGNED	J BECKMAN
APPROVED		CHECKED	J BECKMAN
NO.	DATE	DESCRIPTION	BY
REVISIONS			

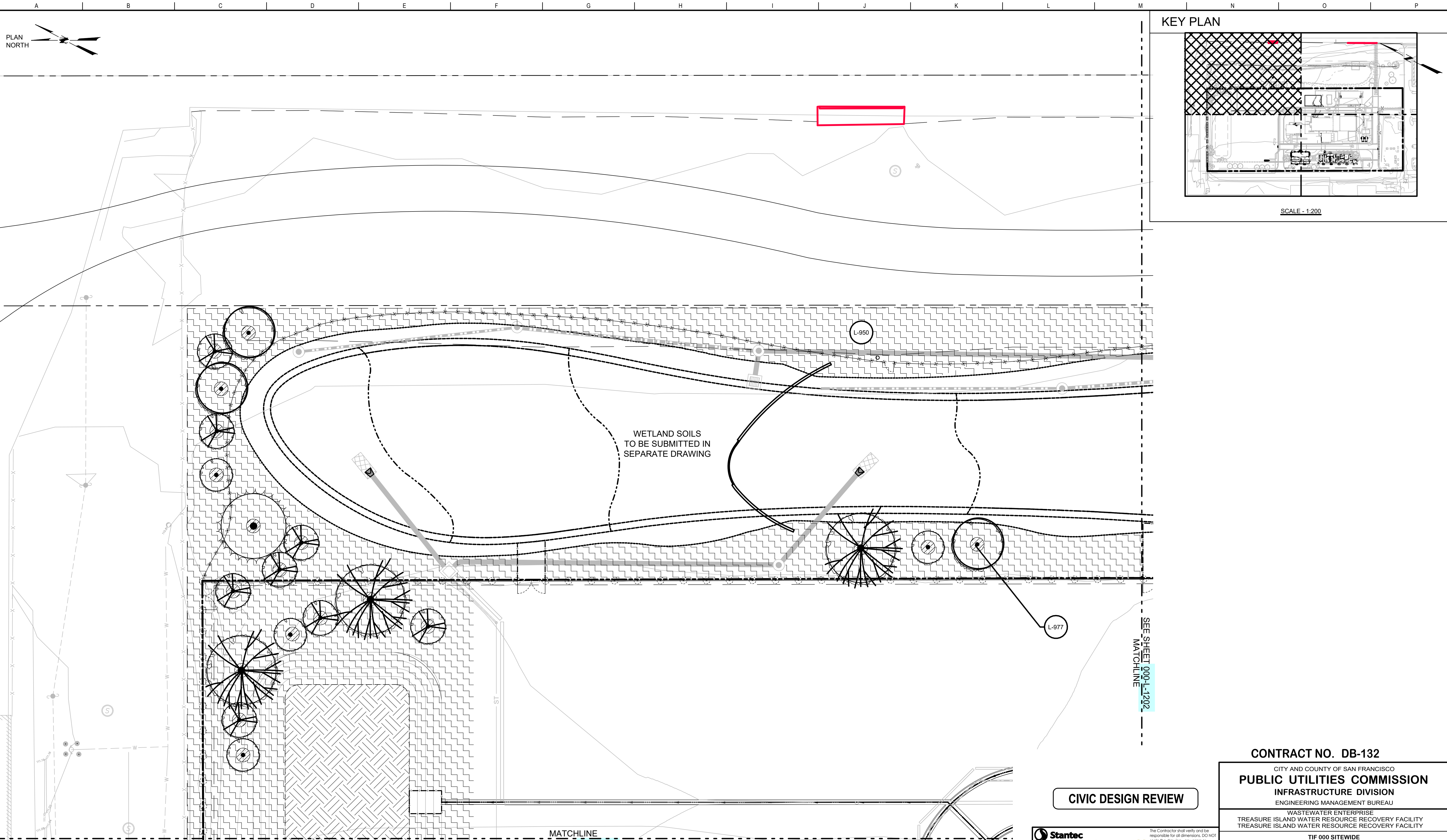


PLAN  
1" = 20'

ELEVATION  
DATUM  
NAVD88  
+100.00'

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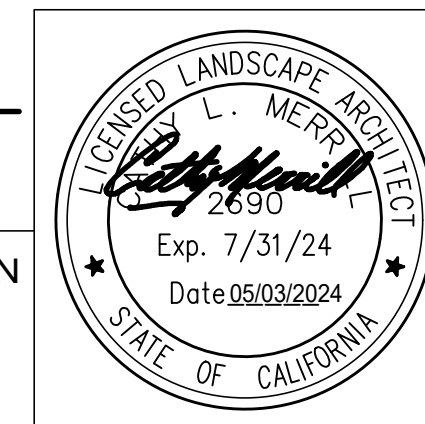
**CIVIC DESIGN REVIEW**

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 CITY AND COUNTY OF SAN FRANCISCO  
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 INFRASTRUCTURE DIVISION  
 ENGINEERING MANAGEMENT BUREAU  
 WASTEWATER ENTERPRISE  
 TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY  
 TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY

TIF 000 SITEWIDE  
**AREA 'A' - SOIL PREPARATION PLAN**

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PROJECT MANAGER	T BROWN	DESIGNED	J BECKMAN
APPROVED		CHECKED	J BECKMAN
NO.	DATE	DESCRIPTION	BY
REVISIONS			

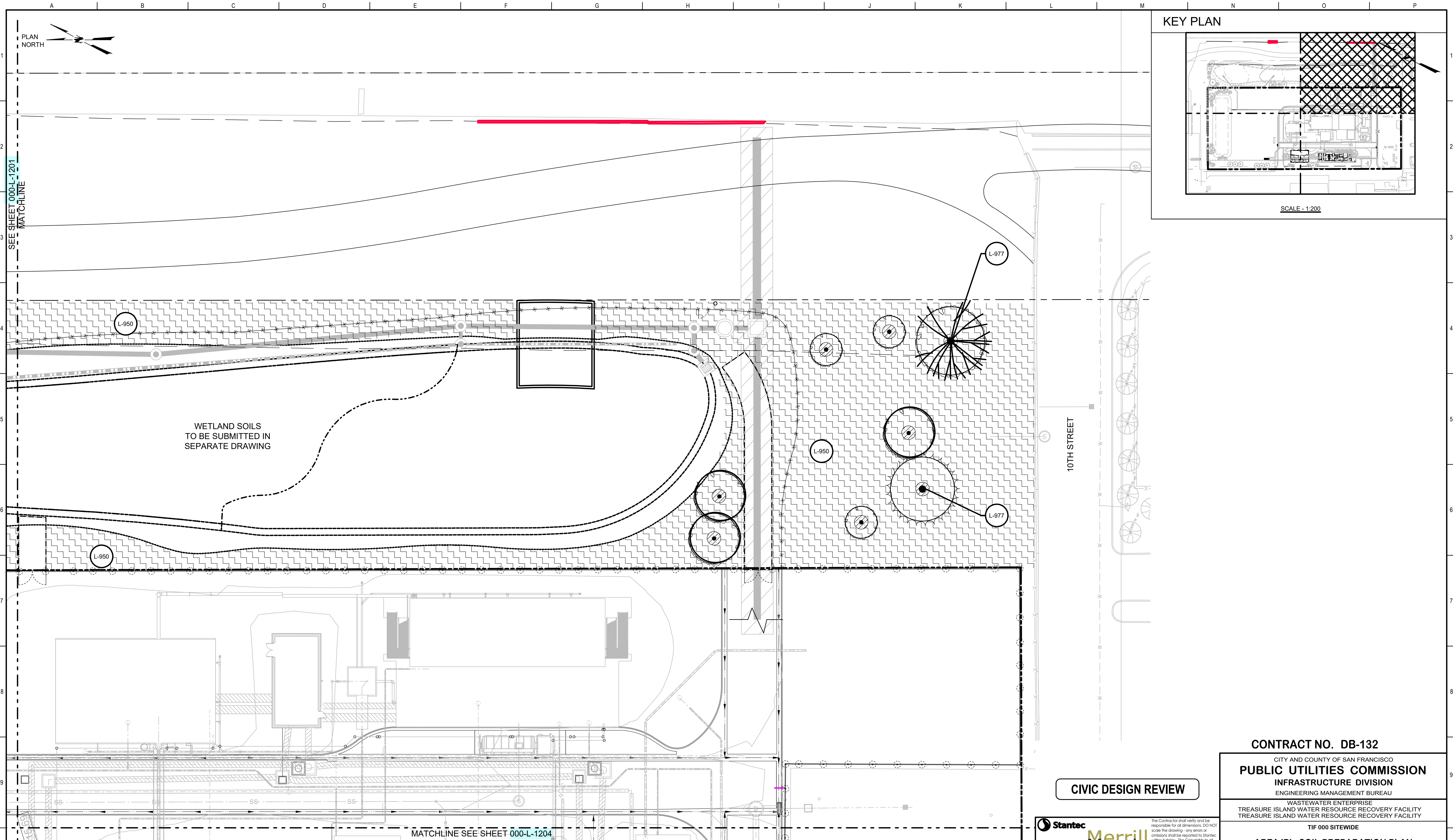
CHECKED / APPROVED	DRAWN
SECTION MANAGER	DESIGNED
WWE OPERATIONS MANAGER	SCALE 1"=20'-0"
APPROVED	DATE 05/03/2024
MANAGER, ENGINEERING MANAGEMENT BUREAU	WWE ENGINEERING MANAGER
PLAN NO. <b>000-L-1201</b>	DRAWING / FILE NO. <b>0</b>



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**PLAN**  
 1" = 20'  
**ELEVATION DATUM**  
 NAVD88  
 +100.00'





**CIVIC DESIGN REVIEW**

**CONTRACT NO. DB-132**  
 CITY AND COUNTY OF SAN FRANCISCO  
**PUBLIC UTILITIES COMMISSION**  
 INFRASTRUCTURE DIVISION  
 ENGINEERING MANAGEMENT BUREAU  
 WASTEWATER ENTERPRISE  
 TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY  
 TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY

TIF 000 SITEWIDE  
**AREA 'B' - SOIL PREPARATION PLAN**

CHECKED / APPROVED	DRAWN	
SECTION MANAGER	DESIGNED	
WWE OPERATIONS MANAGER	SCALE	DATE
APPROVED	APPROVED	05/03/2024
MANAGER, ENGINEERING MANAGEMENT BUREAU	WWE ENGINEERING MANAGER	
PLAN NO.	DRAWING / FILE NO.	REVISION NO.
<b>000-L-1202</b>		<b>0</b>

**Stantec**  
**Merrill**  
 Merrill Morris Partners

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PROJECT ENGINEER	B WONG	DRAWN	V YUAN	
PROJECT MANAGER	T BROWN	DESIGNED	J BECKMAN	
APPROVED		CHECKED	J BECKMAN	
NO.	DATE	DESCRIPTION	BY	APPRD
REVISIONS				

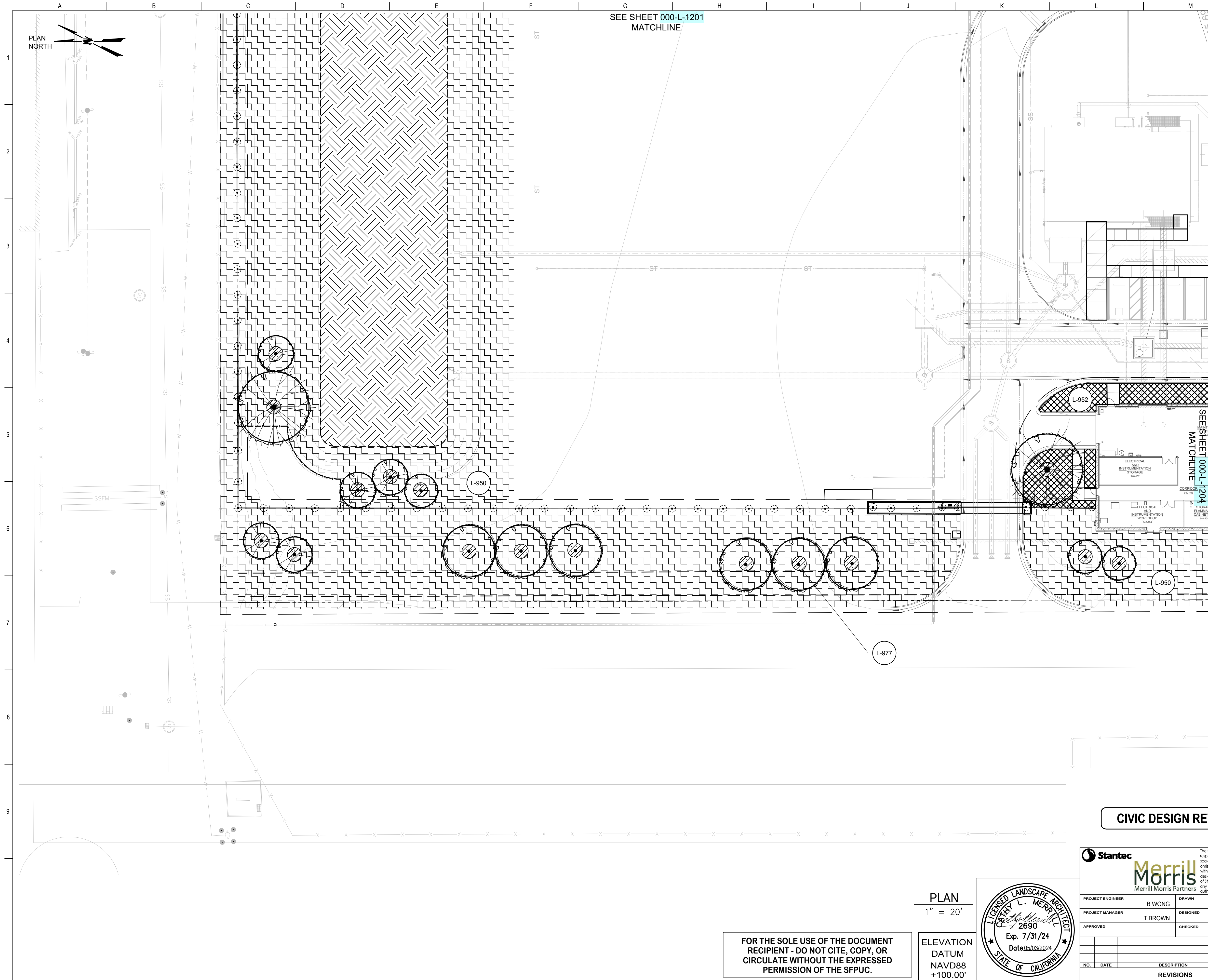
**PLAN**  
 1" = 20'

**ELEVATION**  
 DATUM  
 NAVD88  
 +100.00'

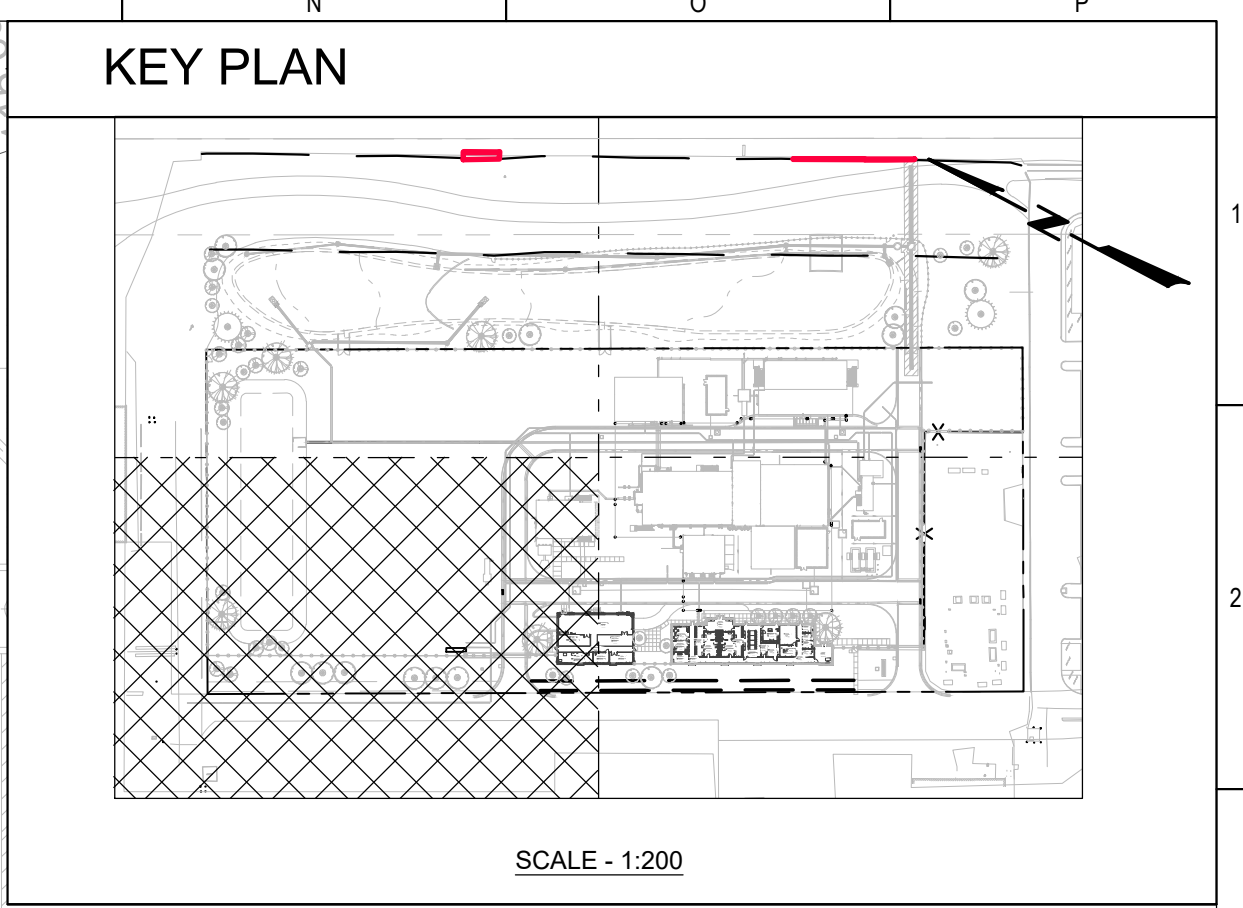


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SEE SHEET 000-L-1201  
MATCHLINE



SEE SHEET 000-L-1204  
MATCHLINE

**CIVIC DESIGN REVIEW**

PLAN  
1" = 20'

ELEVATION  
DATUM  
NAVD88  
+100.00'



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PROJECT ENGINEER	B WONG	DRAWN	V YUAN
PROJECT MANAGER	T BROWN	DESIGNED	J BECKMAN
APPROVED		CHECKED	J BECKMAN
NO.	DATE	DESCRIPTION	BY
		REVISIONS	APPRD

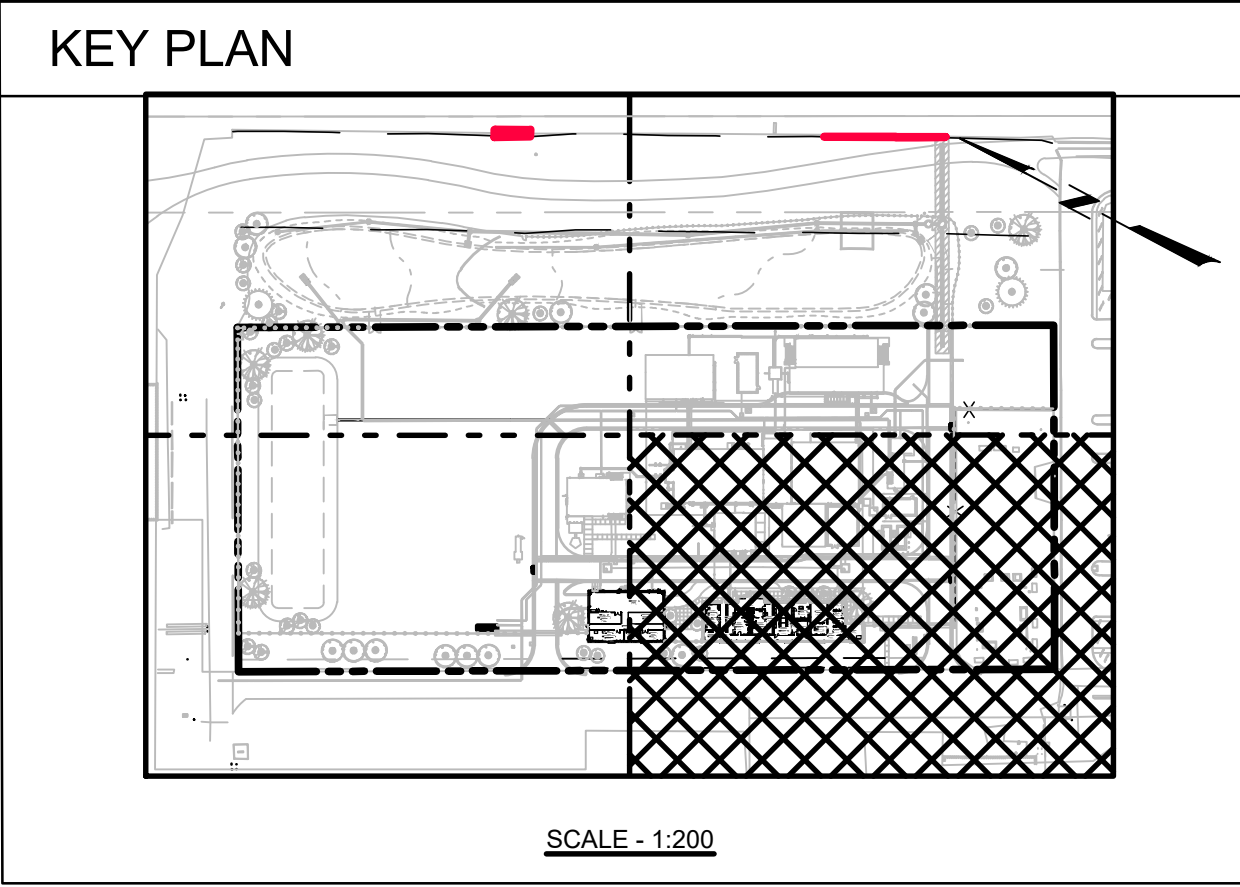
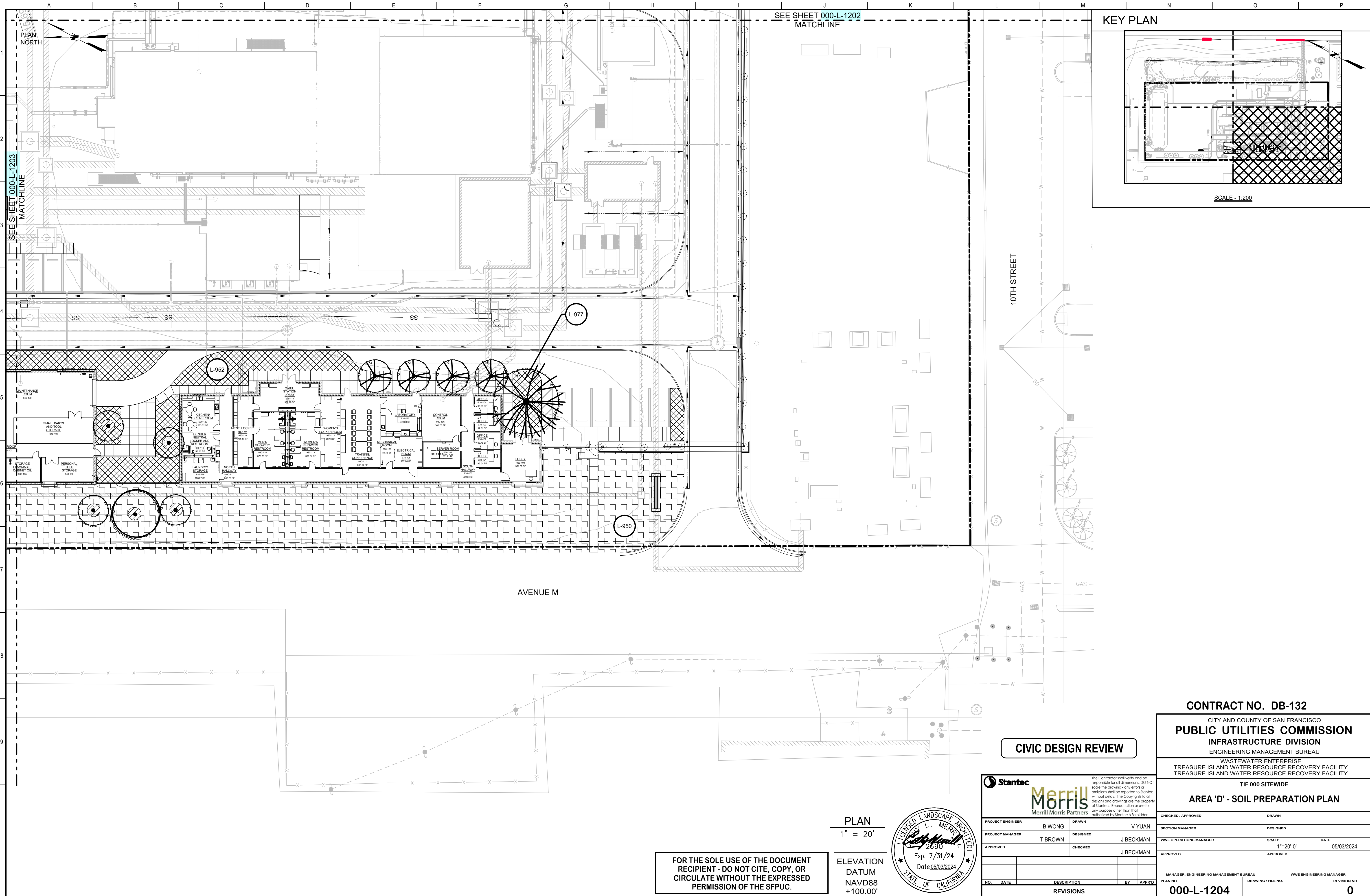
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TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY  
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY

TIF 000 SITEWIDE  
**AREA 'C' - SOIL PREPARATION PLAN**

CHECKED / APPROVED	DRAWN
SECTION MANAGER	DESIGNED
WWE OPERATIONS MANAGER	SCALE 1"=20'-0"
DATE	05/03/2024
APPROVED	APPROVED
MANAGER, ENGINEERING MANAGEMENT BUREAU	WWE ENGINEERING MANAGER
PLAN NO.	DRAWING / FILE NO.
<b>000-L-1203</b>	<b>0</b>





10TH STREET

AVENUE M

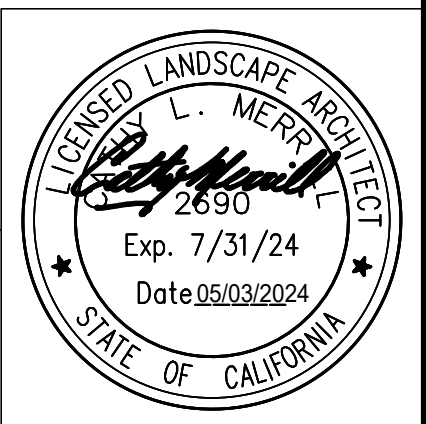
CIVIC DESIGN REVIEW

**CONTRACT NO. DB-132**  
 CITY AND COUNTY OF SAN FRANCISCO  
**PUBLIC UTILITIES COMMISSION**  
 INFRASTRUCTURE DIVISION  
 ENGINEERING MANAGEMENT BUREAU  
 WASTEWATER ENTERPRISE  
 TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY  
 TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY

TIF 000 SITEWIDE  
**AREA 'D' - SOIL PREPARATION PLAN**

PLAN  
 1" = 20'

ELEVATION  
 DATUM  
 NAVD88  
 +100.00'



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PROJECT ENGINEER	B WONG	DRAWN	V YUAN
PROJECT MANAGER	T BROWN	DESIGNED	J BECKMAN
APPROVED		CHECKED	J BECKMAN
NO.		DATE	
DESCRIPTION		BY	
APPRD		DATE	
REVISIONS			

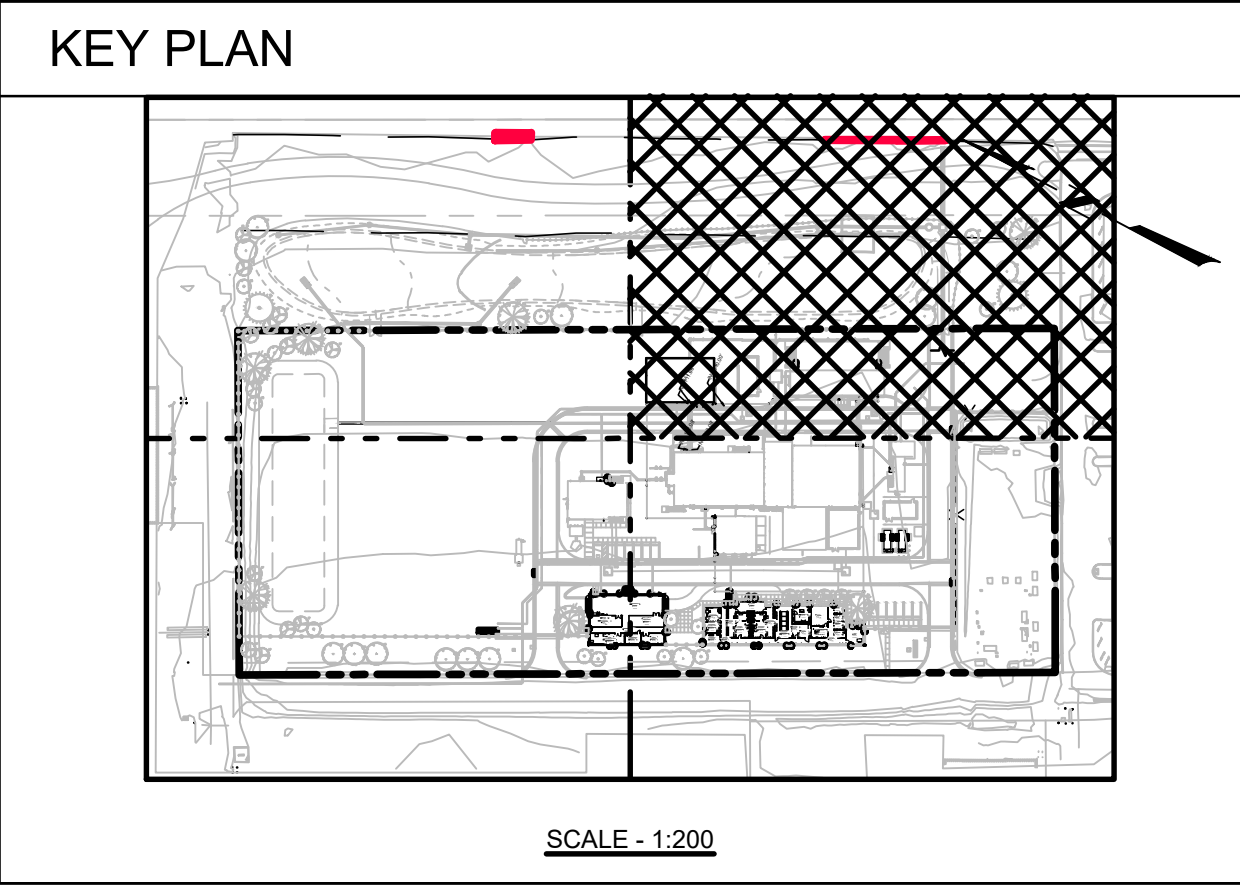
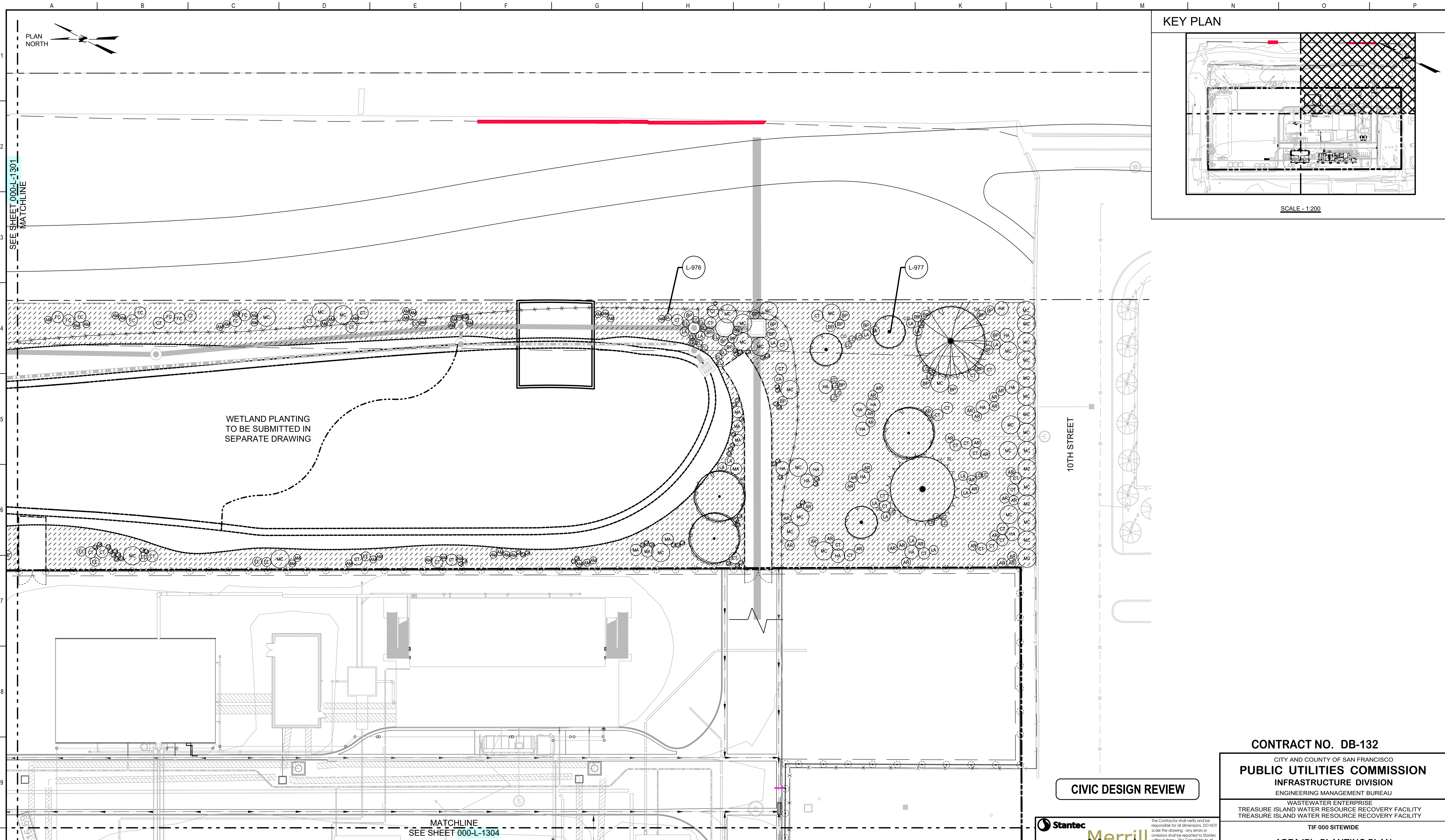
CHECKED / APPROVED	DRAWN
SECTION MANAGER	DESIGNED
WWE OPERATIONS MANAGER	SCALE
APPROVED	DATE
MANAGER, ENGINEERING MANAGEMENT BUREAU	WWE ENGINEERING MANAGER
PLAN NO.	DRAWING / FILE NO.
<b>000-L-1204</b>	<b>0</b>

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WETLAND PLANTING  
TO BE SUBMITTED IN  
SEPARATE DRAWING

10TH STREET

CIVIC DESIGN REVIEW

MATCHLINE  
SEE SHEET 000-L-1304

PLAN  
1" = 20'

ELEVATION  
DATUM  
NAVD88  
+100.00'

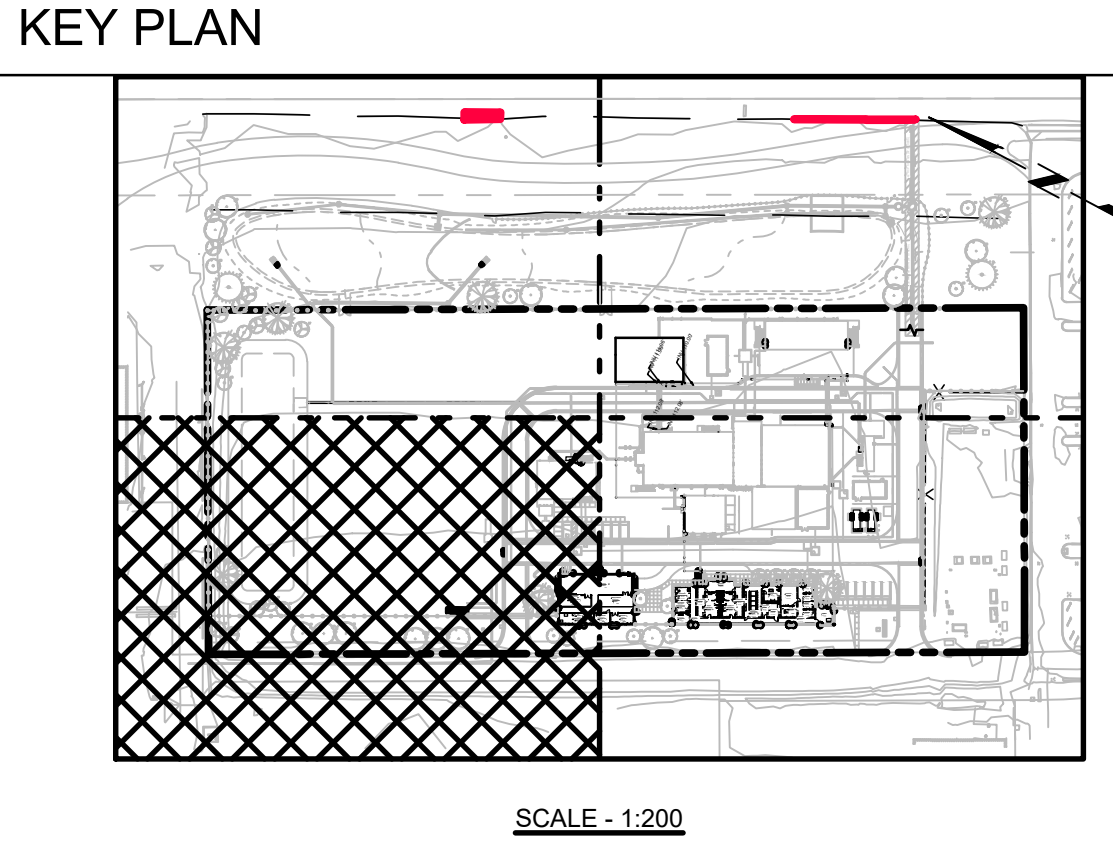
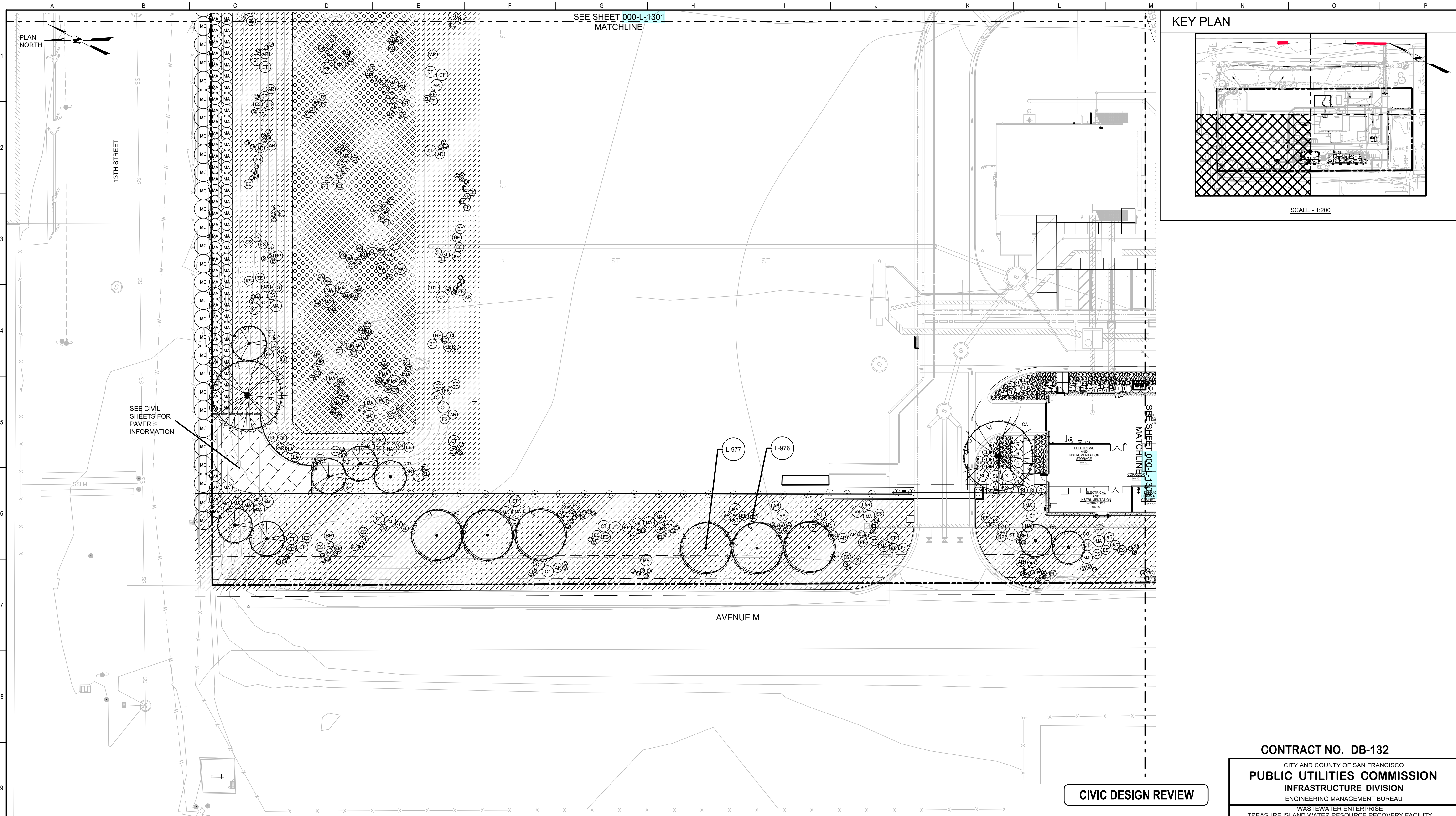
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<b>Stantec</b>		<b>Merrill</b> Merrill Morris Partners	
PROJECT ENGINEER	B WONG	DRAWN	V YUAN
PROJECT MANAGER	T BROWN	DESIGNED	J BECKMAN
APPROVED		CHECKED	J BECKMAN
NO. DATE DESCRIPTION BY APPR			
REVISIONS			

<b>CONTRACT NO. DB-132</b>			
CITY AND COUNTY OF SAN FRANCISCO			
<b>PUBLIC UTILITIES COMMISSION</b>			
INFRASTRUCTURE DIVISION			
ENGINEERING MANAGEMENT BUREAU			
WASTEWATER ENTERPRISE			
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY			
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY			
TIF 000 SITEWIDE			
<b>AREA 'B' - PLANTING PLAN</b>			
CHECKED / APPROVED	DRAWN		
SECTION MANAGER	DESIGNED		
WWE OPERATIONS MANAGER	SCALE	DATE	
APPROVED	1"=20'-0"	05/03/2024	
MANAGER, ENGINEERING MANAGEMENT BUREAU		WWE ENGINEERING MANAGER	
PLAN NO.	DRAWING / FILE NO.	REVISION NO.	
<b>000-L-1302</b>		<b>0</b>	





SEE CIVIL SHEETS FOR PAVER INFORMATION

SEE SHEET 000-L-1301 MATCHLINE

SEE SHEET 000-L-1301 MATCHLINE

AVENUE M

CIVIC DESIGN REVIEW

**CONTRACT NO. DB-132**  
 CITY AND COUNTY OF SAN FRANCISCO  
**PUBLIC UTILITIES COMMISSION**  
 INFRASTRUCTURE DIVISION  
 ENGINEERING MANAGEMENT BUREAU  
 WASTEWATER ENTERPRISE  
 TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY  
 TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY

TIF 000 SITEWIDE  
**AREA 'C' - PLANTING PLAN**

CHECKED / APPROVED	DRAWN	
SECTION MANAGER	DESIGNED	
WWE OPERATIONS MANAGER	SCALE	DATE
APPROVED	APPROVED	05/03/2024
MANAGER, ENGINEERING MANAGEMENT BUREAU	WWE ENGINEERING MANAGER	
PLAN NO.	DRAWING / FILE NO.	REVISION NO.
<b>000-L-1303</b>		<b>0</b>

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PROJECT ENGINEER	DRAWN	B WONG	V YUAN	
PROJECT MANAGER	DESIGNED	T BROWN	J BECKMAN	
APPROVED	CHECKED	J BECKMAN	J BECKMAN	
NO.	DATE	DESCRIPTION	BY	APPRD
REVISIONS				

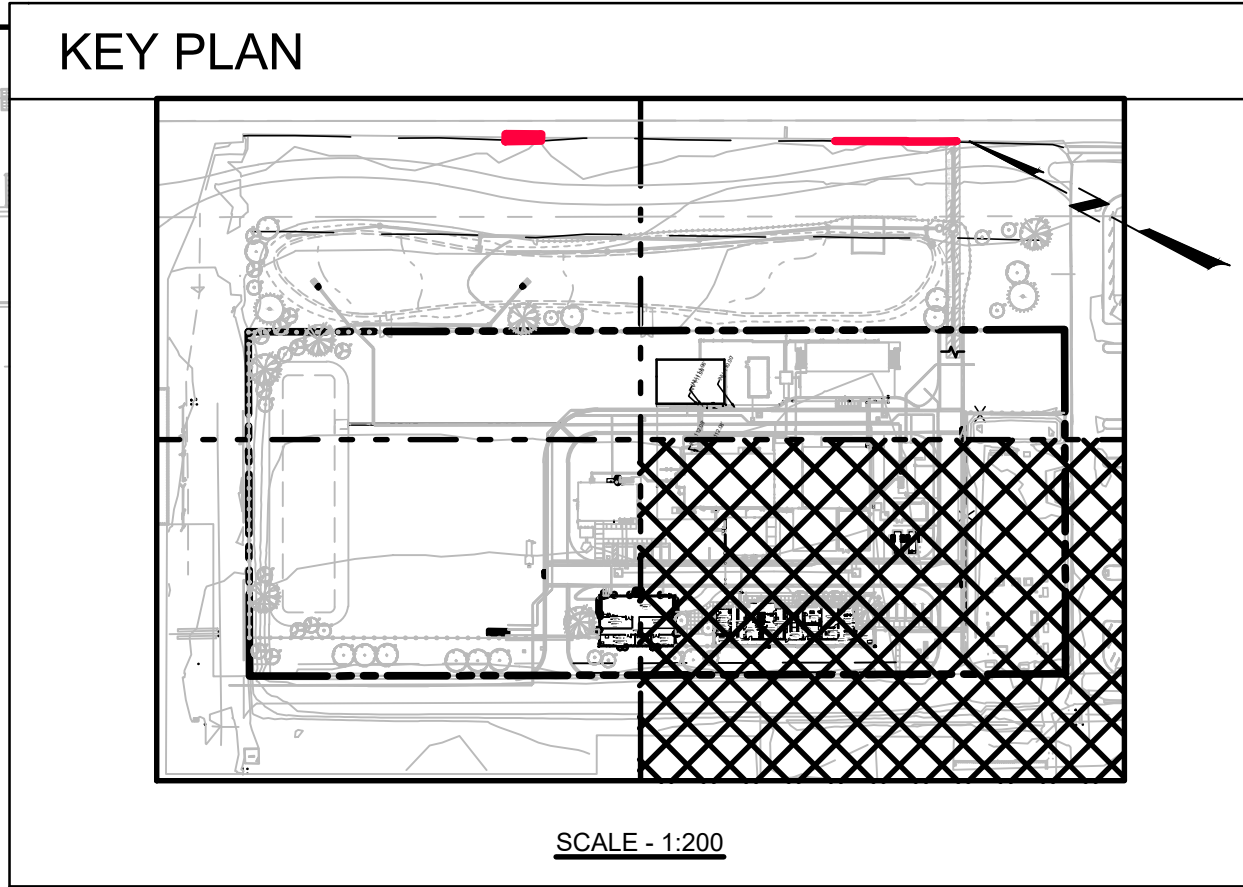
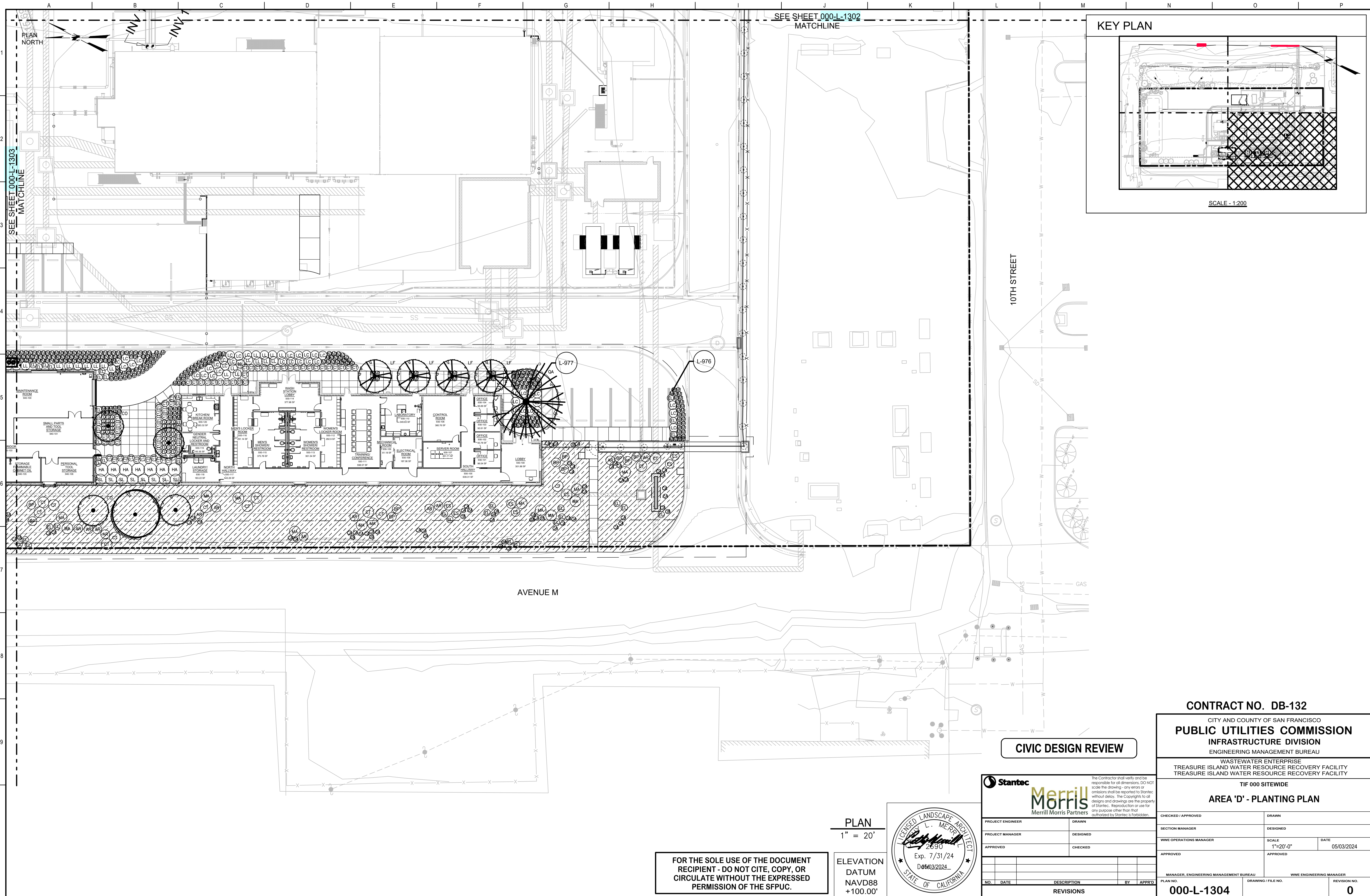
PLAN  
 1" = 20'

ELEVATION  
 DATUM  
 NAVD88  
 +100.00'



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10TH STREET

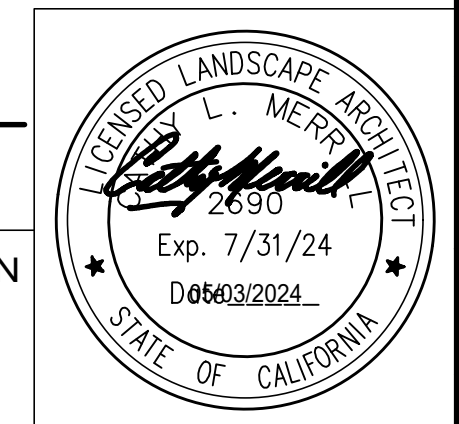
AVENUE M

CIVIC DESIGN REVIEW

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 CITY AND COUNTY OF SAN FRANCISCO  
**PUBLIC UTILITIES COMMISSION**  
 INFRASTRUCTURE DIVISION  
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 TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY

TIF 000 SITEWIDE  
**AREA 'D' - PLANTING PLAN**

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PROJECT MANAGER	DESIGNED		
APPROVED	CHECKED		
NO.	DATE	DESCRIPTION	BY
REVISIONS			



PLAN  
 1" = 20'

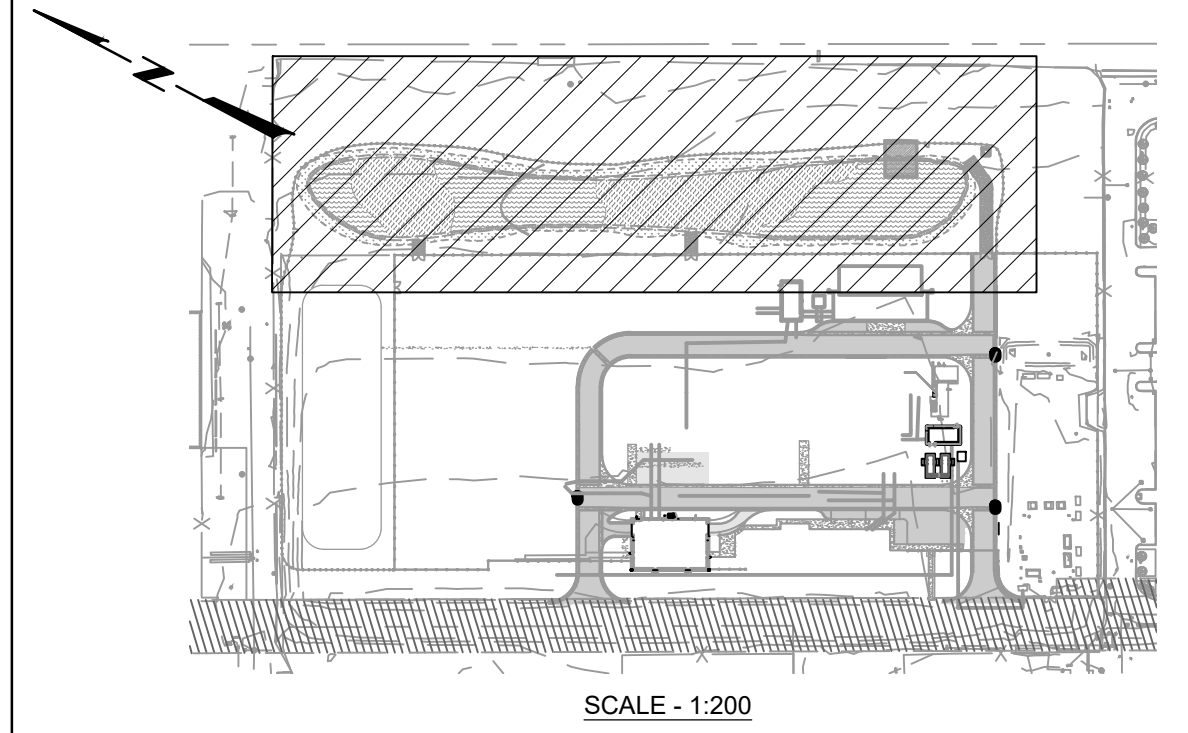
ELEVATION  
 DATUM  
 NAVD88  
 +100.00'

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CHECKED / APPROVED	DRAWN
SECTION MANAGER	DESIGNED
WWE OPERATIONS MANAGER	SCALE 1"=20'-0"
DATE	05/03/2024
APPROVED	APPROVED
MANAGER, ENGINEERING MANAGEMENT BUREAU	WWE ENGINEERING MANAGER
PLAN NO. <b>000-L-1304</b>	DRAWING / FILE NO. <b>0</b>



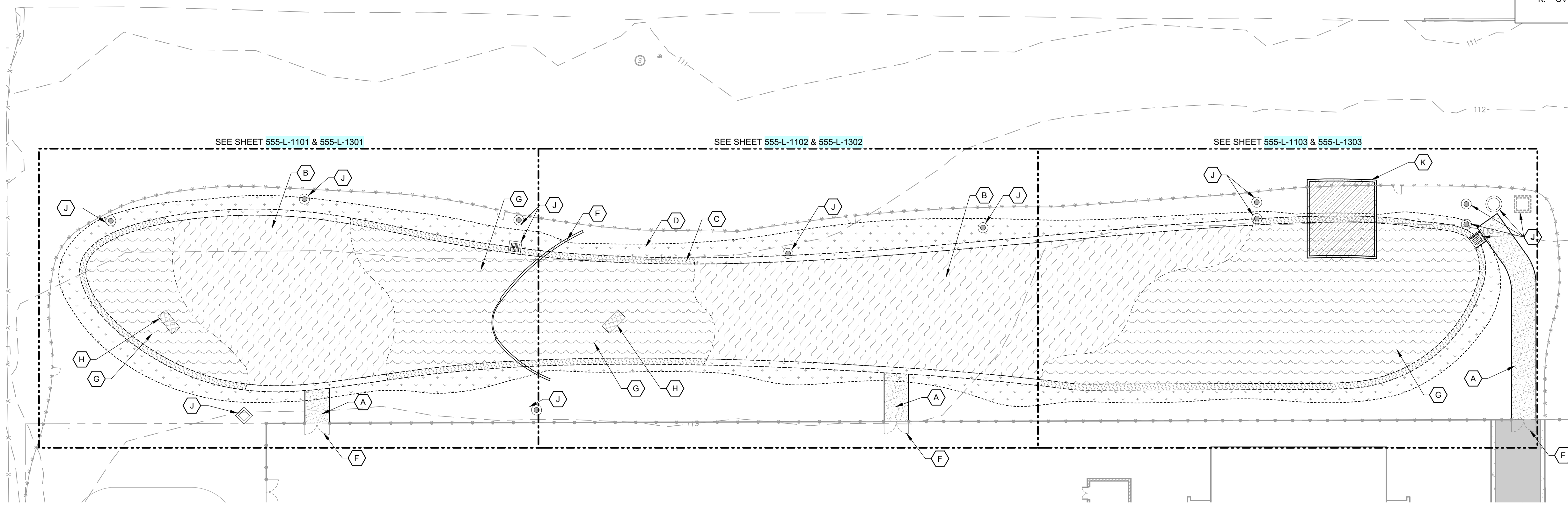
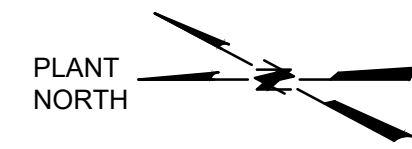
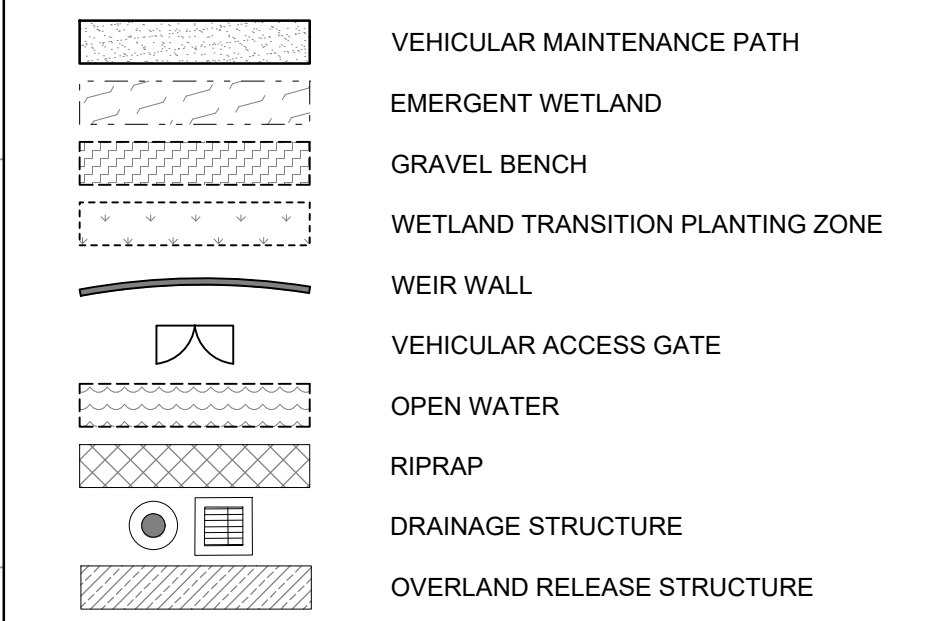
**KEY PLAN**



**SHEET KEYNOTES**

- A. VEHICULAR MAINTENANCE PATH
- B. EMERGENT WETLAND
- C. GRAVEL BENCH
- D. WETLAND TRANSITION PLANTING ZONE
- E. WEIR WALL
- F. VEHICULAR ACCESS GATE
- G. OPEN WATER
- H. RIPRAP
- J. DRAINAGE STRUCTURE
- K. OVERLAND RELEASE STRUCTURE

**LEGEND**



**AREA KEY**  
1" = 30'

**CIVIC DESIGN REVIEW**

**CONTRACT NO. DB-132**  
CITY AND COUNTY OF SAN FRANCISCO  
**PUBLIC UTILITIES COMMISSION**  
INFRASTRUCTURE DIVISION  
ENGINEERING MANAGEMENT BUREAU  
WASTEWATER ENTERPRISE  
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY  
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY

**TIF 555 WETLANDS**  
**AREA KEY**

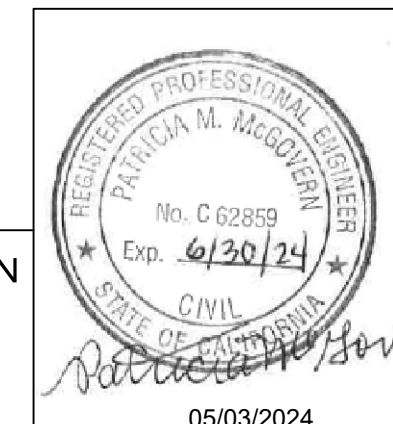
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WWE OPERATIONS MANAGER	SCALE: 1" = 30'
DATE: 05/03/2024	APPROVED
MANAGER, ENGINEERING MANAGEMENT BUREAU	WWE ENGINEERING MANAGER
PLAN NO. <b>555-L-1001</b>	DRAWING / FILE NO.
REVISION NO. <b>0</b>	

**Stantec**  
MCGOVERN MCDONALD  
WATER | ENVIRONMENT | ENERGY

PROJECT ENGINEER	B WONG	DRAWN	N BONDY
PROJECT MANAGER	P MCGOVERN	DESIGNED	R CARDONA
APPROVED		CHECKED	

NO. DATE DESCRIPTION BY APPRD

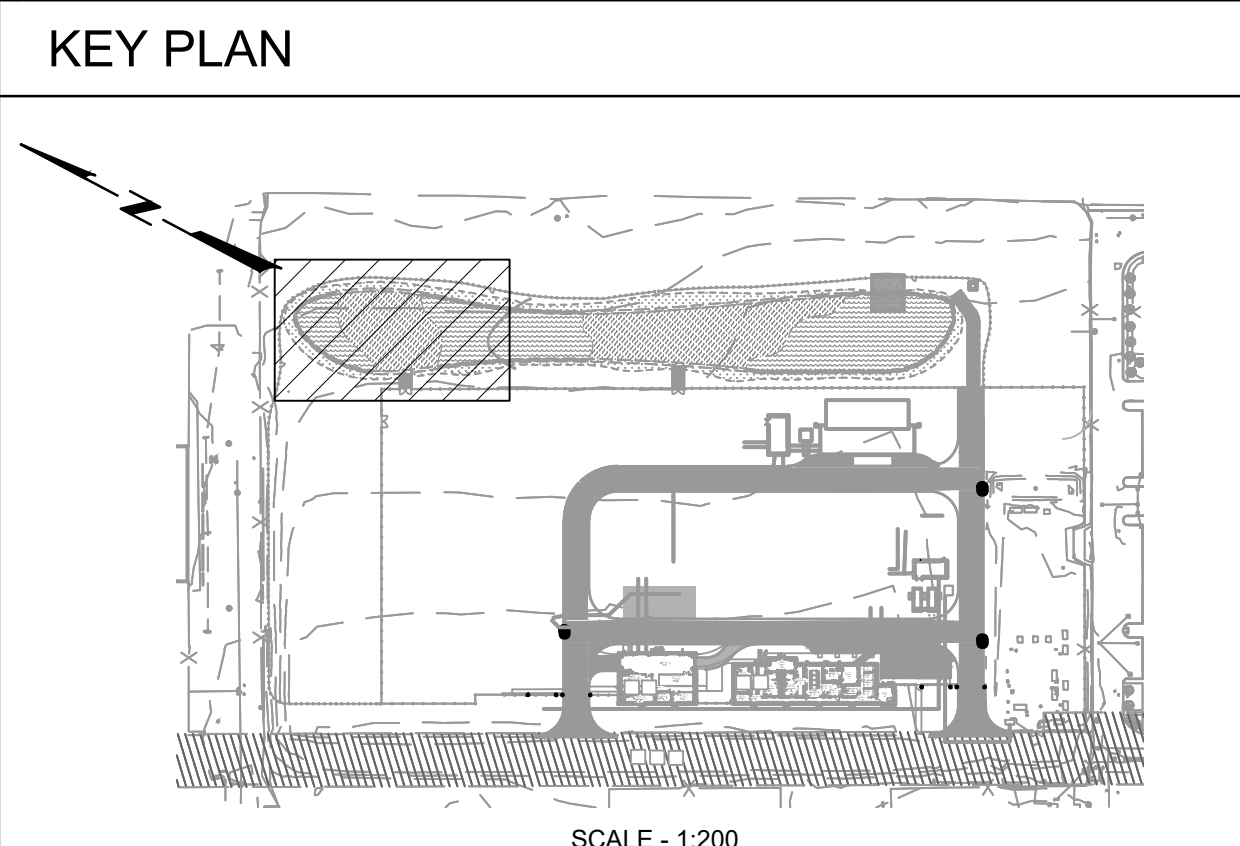
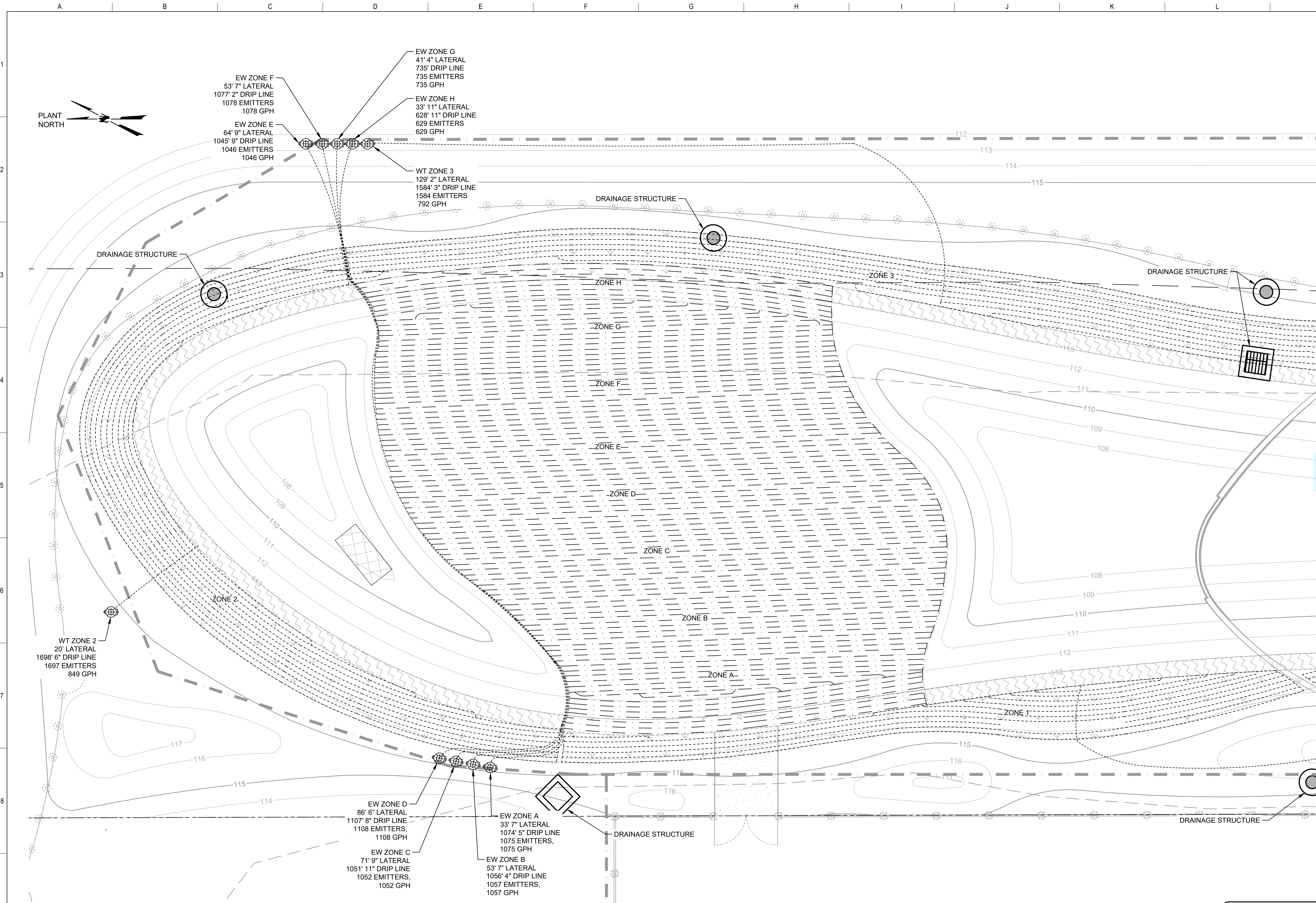
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**ELEVATION DATUM**  
NAVD88  
+100.00'





- ### IRRIGATION NOTES
- ALL IRRIGATION SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF SAN FRANCISCO REQUIREMENTS AND STANDARDS.
  - CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS AND UTILITY LOCATIONS.
  - REFERENCE LANDSCAPING IRRIGATION DRAWINGS FOR IRRIGATION SYSTEM DETAIL REGARDING VALVES AND MAINLINE CONNECTION FOR WETLANDS IRRIGATION SYSTEM.
  - ALL MATERIALS ARE TO BE OF THE FINEST QUALITY AND FREE OF DEBRIS. SOIL OR DAMAGE QUALITY AND CLEANLINESS (ESPECIALLY WITHIN TUBING) ARE TO BE MAINTAINED THROUGHOUT THE DURATION OF IRRIGATION INSTALLATION.
  - REFERENCE ATTACHMENT A IN SPECIFICATION 32 93 00 TREES, SHRUBS, ORNAMENT, AND GROUND COVER FOR PROTOCOLS ON BEST MANAGEMENT PRACTICES TO PREVENT PATHOGEN SPREAD DURING FIELD WORK.
  - DRAWINGS ARE DIAGRAMMATIC. PROVIDE NECESSARY FITTINGS AND OFFSETS TO ADAPT TO EXISTING CONDITIONS AND PREVENT CONFLICTS WITH OTHER WORK AND EXISTING IMPROVEMENTS.
  - IRRIGATION SHALL BE INSTALLED, TESTED, AND OPERATING FOR A MINIMUM OF TWO WEEKS PRIOR TO COMMENCEMENT OF PLANTING ACTIVITIES.
  - ALL IRRIGATION LINES ARE TO BE LAID ABOVE GROUND, AND HELD IN PLACE USING GALVANIZED STAPLES.
  - ALL IRRIGATION LINES ARE TO BE SPACED 1 FT APART WITH EMITTERS ALIGNED OFF CENTER. THIS LAYOUT WILL GUIDE THE TRIANGULAR PLANTING PATTERN UPON PLANT INSTALLATION.
  - EMERGENT WETLANDS DRIP LINES IN CELL 1 RUN NORTH TO SOUTH. EMERGENT WETLANDS DRIP LINES IN CELL 2 RUN EAST TO WEST.
  - EMERGENT WETLANDS ARE TO BE IRRIGATED WITH A DRIP LINE SYSTEM CONSISTING OF 1 1/2" BLACK POLYETHYLENE TUBING LATERAL LINES, 1/2" DRIP LINE WITH 1.0 GPH EMITTERS SPACED 12" APART, AND THE NECESSARY CONNECTING PIECES SUCH AS ELBOWS, TAKE OFF BARBS, TEES, AND COUPLINGS.
  - WETLANDS TRANSITION AREAS ARE TO BE IRRIGATED WITH A DRIP LINE SYSTEM CONSISTING OF 1 1/2" BLACK POLYETHYLENE TUBING LATERAL LINES, 1/2" DRIP LINE WITH 0.5 GPH EMITTERS SPACED 12" APART, AND THE NECESSARY CONNECTING PIECES SUCH AS ELBOWS, TAKE OFF BARBS, TEES, AND COUPLINGS.
  - IMMEDIATELY AFTER INSTALLATION, FLUSH LATERAL LINE PIPING. CAP OPEN PIPE ENDS AS PIPE LINE IS ASSEMBLED TO KEEP OUT SOIL OR DEBRIS. REMOVE CAPS ONLY WHEN NECESSARY TO CONTINUE ASSEMBLY.
  - AFTER INSTALLATION IS COMPLETE, RUN THE SYSTEM MANUALLY. WALK LINES AND CHECK FOR LEAKS AND/OR FAULTY PARTS AND REPLACE AS NECESSARY.
  - EMERGENT WETLANDS WILL EMIT 1 GALLON PER HOUR AT EACH EMITTER FOR THE 9-12 MONTH GROWING PERIOD. EACH ZONE WILL RUN FOR TWO HOURS, TWICE A DAY, FOR A TOTAL OF 4 GALLONS PER DAY PER EMITTER.
  - WETLANDS TRANSITION AREAS SHALL HAVE TEMPORARY DRIP LINES THAT WILL EMIT 0.5 GALLONS PER HOUR AT EACH EMITTER FOR THE 9-12 MONTH GROWING PERIOD. EACH ZONE WILL RUN FOR TWO HOURS, ONCE A DAY, FOR A TOTAL OF 1 GALLON PER DAY PER EMITTER.
  - EMERGENT WETLANDS IRRIGATION IS TO BE REMOVED 1-2 DAYS PRIOR TO WASTE WATER FLOW THROUGH WETLANDS. ONCE IRRIGATION IS REMOVED, ENSURE ADEQUATE FLOW THROUGH WETLANDS TO ENSURE EMERGENT WETLAND AREAS ARE INUNDATED AND WILL NOT DRY OUT.
  - AFTER ONE CALENDAR YEAR FROM PLANTING COMPLETION, IRRIGATION FOR WETLANDS TRANSITION AREAS SHALL BE REDUCED. EACH ZONE WILL RUN FOR ONE HOUR, ONCE A DAY, FOR A TOTAL OF 0.5 GALLON PER DAY PER EMITTER.
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  - WETLANDS TRANSITION IRRIGATION IS TO BE REMOVED 3 YEARS AFTER INSTALLATION.

### LEGEND

	VALVE
	MAINLINE
	1 1/2" POLYETHYLENE TUBING
	1/2" POLYETHYLENE PRESSURE COMPENSATING DRIP LINE 12" EMITTER SPACING, 1 GPH
	1/2" POLYETHYLENE PRESSURE COMPENSATING DRIP LINE 12" EMITTER SPACING, 0.5 GPH

**CONTRACT NO. DB-132**

CITY AND COUNTY OF SAN FRANCISCO  
**PUBLIC UTILITIES COMMISSION**  
 INFRASTRUCTURE DIVISION  
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 WASTEWATER ENTERPRISE  
 TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY  
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PROJECT ENGINEER	B WONG	DRAWN	N BONDY
PROJECT MANAGER	P MCGOVERN	DESIGNED	R CARDONA
APPROVED		CHECKED	
NO.	DATE	DESCRIPTION	BY
REVISIONS			

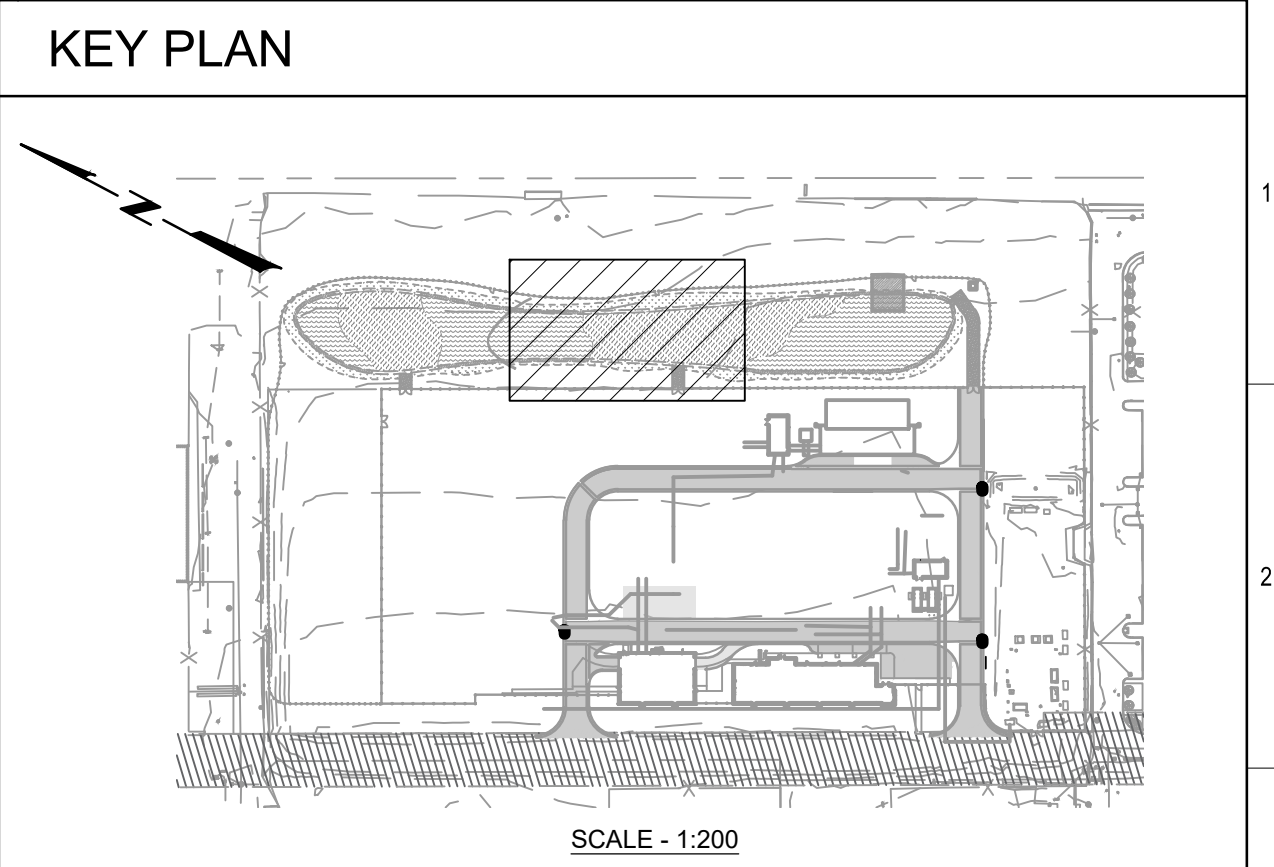
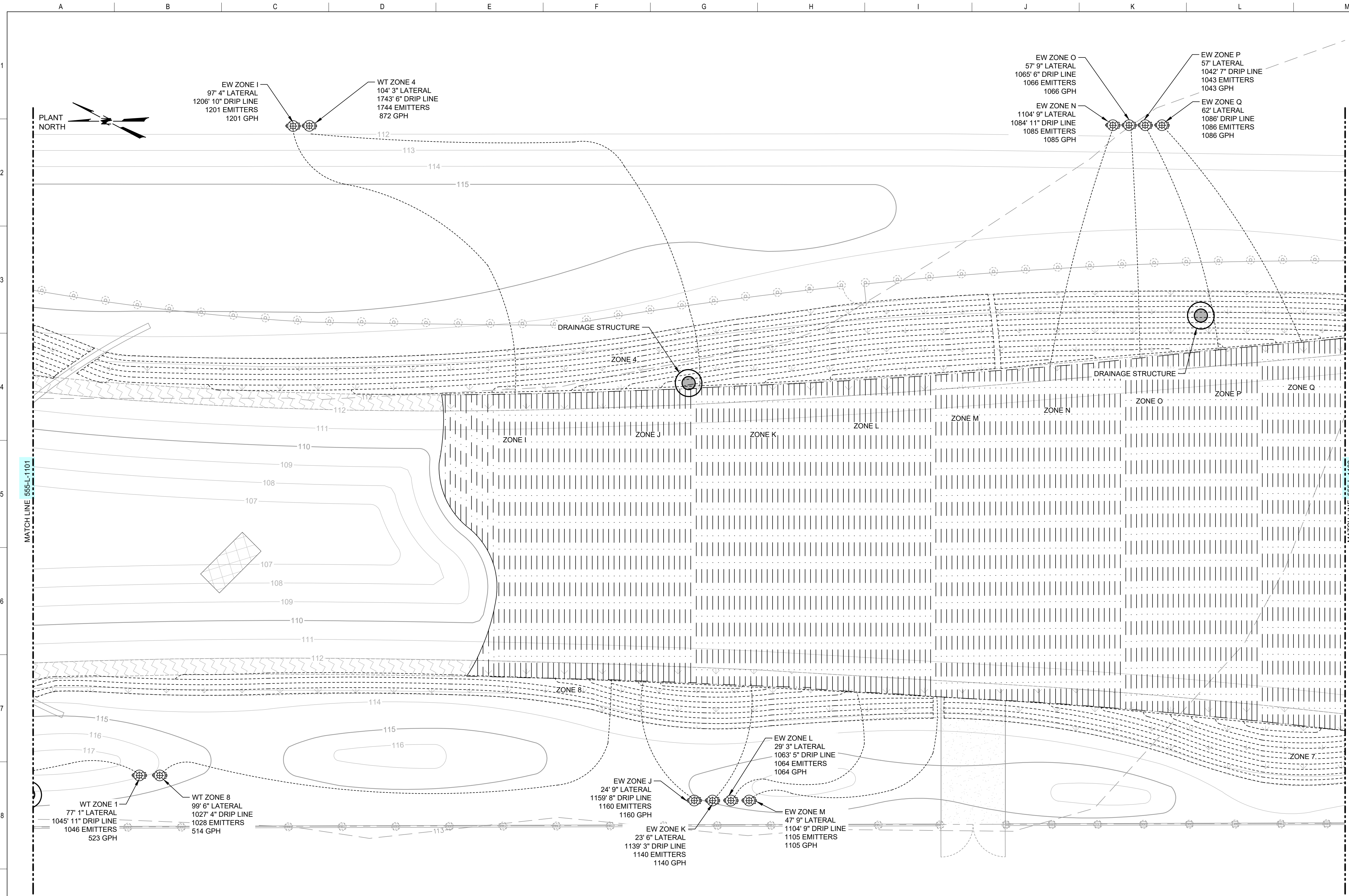


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ELEVATION DATUM  
NAVD88  
+100.00'

<b>TIF 555 WETLANDS</b>	
<b>IRRIGATION PLAN 1 OF 3</b>	
CHECKED / APPROVED	DRAWN
SECTION MANAGER	DESIGNED
WWE OPERATIONS MANAGER	SCALE 1" = 10'
DATE	05/03/2024
APPROVED	APPROVED
MANAGER, ENGINEERING MANAGEMENT BUREAU	WWE ENGINEERING MANAGER
PLAN NO.	DRAWING / FILE NO.
<b>555-L-1101</b>	<b>0</b>





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	MAINLINE
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	1/2" POLYETHYLENE PRESSURE COMPENSATING DRIP LINE 12" EMITTER SPACING, 1 GPH
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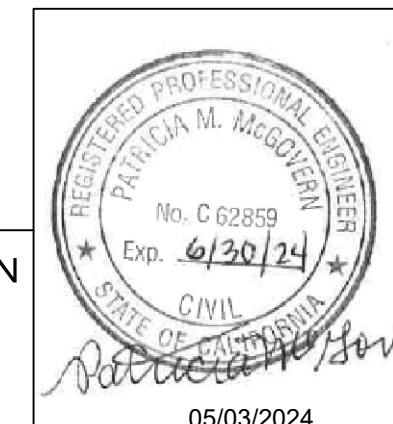
**IRRIGATION PLAN**  
1" = 10'

**CIVIC DESIGN REVIEW**

**CONTRACT NO. DB-132**

CITY AND COUNTY OF SAN FRANCISCO  
**PUBLIC UTILITIES COMMISSION**  
INFRASTRUCTURE DIVISION  
ENGINEERING MANAGEMENT BUREAU  
WASTEWATER ENTERPRISE  
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY  
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY

**TIF 555 WETLANDS**  
**IRRIGATION PLAN 2 OF 3**



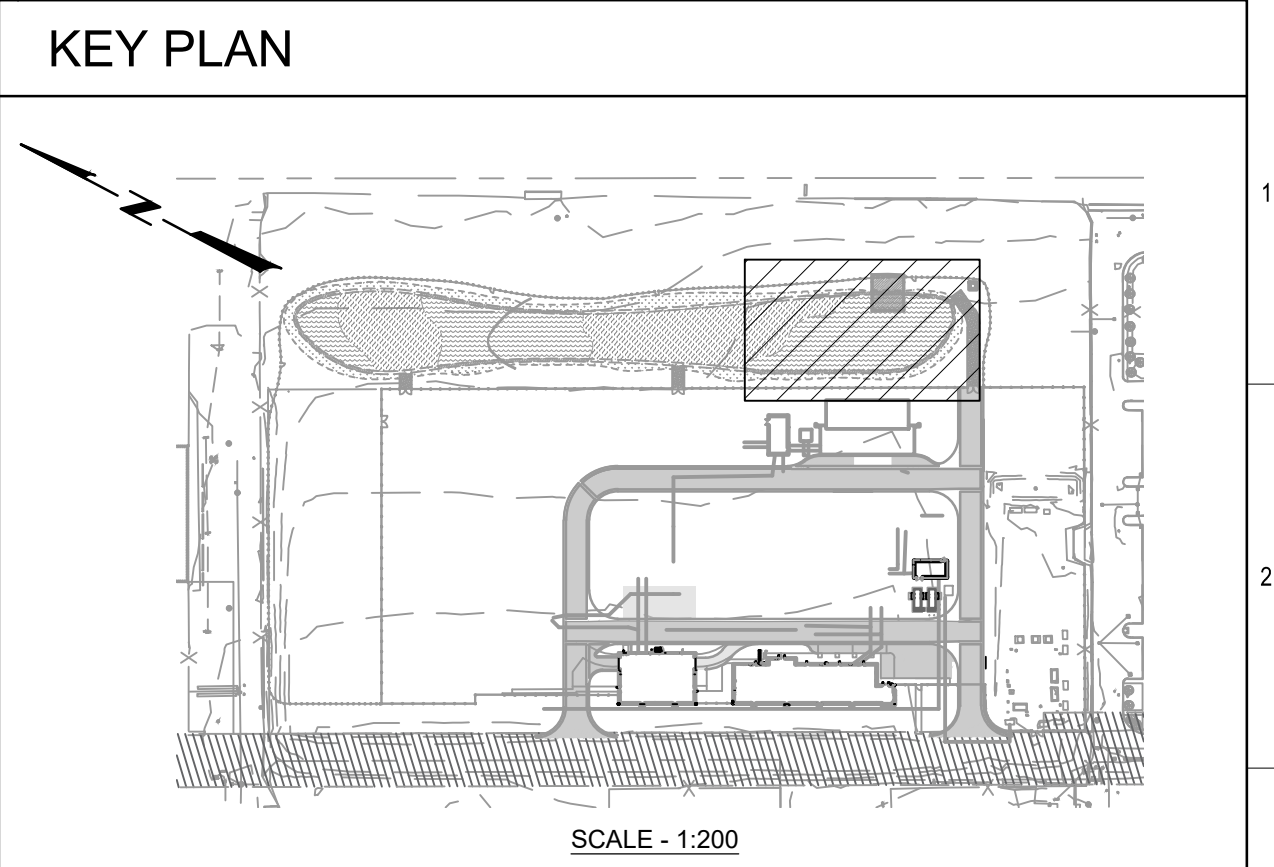
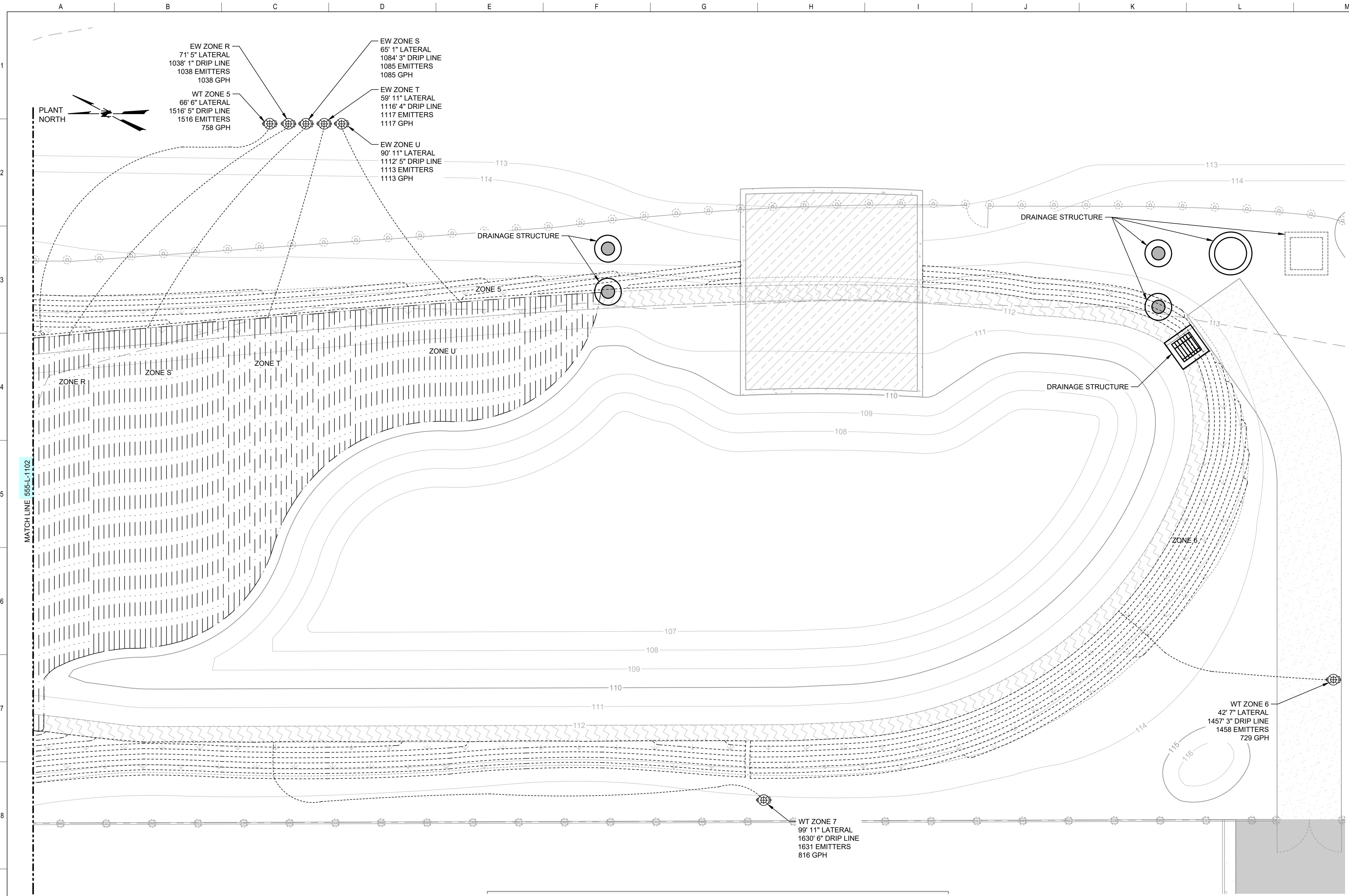
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PROJECT ENGINEER	B WONG	DRAWN	N BONDY
PROJECT MANAGER	P MCGOVERN	DESIGNED	R CARDONA
APPROVED		CHECKED	
NO.	DATE	DESCRIPTION	BY
<b>REVISIONS</b>			

CHECKED / APPROVED	DRAWN
SECTION MANAGER	DESIGNED
WWE OPERATIONS MANAGER	SCALE 1" = 10'
DATE	05/03/2024
APPROVED	APPROVED
MANAGER, ENGINEERING MANAGEMENT BUREAU	WWE ENGINEERING MANAGER
PLAN NO.	DRAWING / FILE NO.
<b>555-L-1102</b>	<b>0</b>

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**ELEVATION DATUM**  
NAVD88  
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- ### IRRIGATION NOTES
- ALL IRRIGATION SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF SAN FRANCISCO REQUIREMENTS AND STANDARDS.
  - CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS AND UTILITY LOCATIONS.
  - REFERENCE LANDSCAPING IRRIGATION DRAWINGS FOR IRRIGATION SYSTEM DETAIL REGARDING VALVES AND MAINLINE CONNECTION FOR WETLANDS IRRIGATION SYSTEM.
  - ALL MATERIALS ARE TO BE OF THE FINEST QUALITY AND FREE OF DEBRIS. SOIL OR DAMAGE QUALITY AND CLEANLINESS (ESPECIALLY WITHIN TUBING) ARE TO BE MAINTAINED THROUGHOUT THE DURATION OF IRRIGATION INSTALLATION.
  - REFERENCE ATTACHMENT A IN SPECIFICATION 32 93 00 TREES, SHRUBS, ORNAMENT, AND GROUND COVER FOR PROTOCOLS ON BEST MANAGEMENT PRACTICES TO PREVENT PATHOGEN SPREAD DURING FIELD WORK.
  - DRAWINGS ARE DIAGRAMMATIC. PROVIDE NECESSARY FITTINGS AND OFFSETS TO ADAPT TO EXISTING CONDITIONS AND PREVENT CONFLICTS WITH OTHER WORK AND EXISTING IMPROVEMENTS.
  - IRRIGATION SHALL BE INSTALLED, TESTED, AND OPERATING FOR A MINIMUM OF TWO WEEKS PRIOR TO COMMENCEMENT OF PLANTING ACTIVITIES.
  - ALL IRRIGATION LINES ARE TO BE LAID ABOVE GROUND, AND HELD IN PLACE USING GALVANIZED STAPLES.
  - ALL IRRIGATION LINES ARE TO BE SPACED 1 FT APART WITH EMITTERS ALIGNED OFF CENTER. THIS LAYOUT WILL GUIDE THE TRIANGULAR PLANTING PATTERN UPON PLANT INSTALLATION.
  - EMERGENT WETLANDS DRIP LINES IN CELL 1 RUN NORTH TO SOUTH. EMERGENT WETLANDS DRIP LINES IN CELL 2 RUN EAST TO WEST.
  - EMERGENT WETLANDS ARE TO BE IRRIGATED WITH A DRIP LINE SYSTEM CONSISTING OF 1 1/2" BLACK POLYETHYLENE TUBING LATERAL LINES, 1/2" DRIP LINE WITH 1.0 GPH EMITTERS SPACED 12" APART, AND THE NECESSARY CONNECTING PIECES SUCH AS ELBOWS, TAKE OFF BARBS, TEES, AND COUPLINGS.
  - WETLANDS TRANSITION AREAS ARE TO BE IRRIGATED WITH A DRIP LINE SYSTEM CONSISTING OF 1 1/2" BLACK POLYETHYLENE TUBING LATERAL LINES, 1/2" DRIP LINE WITH 0.5 GPH EMITTERS SPACED 12" APART, AND THE NECESSARY CONNECTING PIECES SUCH AS ELBOWS, TAKE OFF BARBS, TEES, AND COUPLINGS.
  - IMMEDIATELY AFTER INSTALLATION, FLUSH LATERAL LINE PIPING. CAP OPEN PIPE ENDS AS PIPE LINE IS ASSEMBLED TO KEEP OUT SOIL OR DEBRIS. REMOVE CAPS ONLY WHEN NECESSARY TO CONTINUE ASSEMBLY.
  - AFTER INSTALLATION IS COMPLETE, RUN THE SYSTEM MANUALLY. WALK LINES AND CHECK FOR LEAKS AND/OR FAULTY PARTS AND REPLACE AS NECESSARY.
  - EMERGENT WETLANDS WILL EMIT 1 GALLON PER HOUR AT EACH EMITTER FOR THE 9-12 MONTH GROWING PERIOD. EACH ZONE WILL RUN FOR TWO HOURS, TWICE A DAY, FOR A TOTAL OF 4 GALLONS PER DAY PER EMITTER.
  - WETLANDS TRANSITION AREAS SHALL HAVE TEMPORARY DRIP LINES THAT WILL EMIT 0.5 GALLONS PER HOUR AT EACH EMITTER FOR THE 9-12 MONTH GROWING PERIOD. EACH ZONE WILL RUN FOR TWO HOURS, ONCE A DAY, FOR A TOTAL OF 1 GALLON PER DAY PER EMITTER.
  - EMERGENT WETLANDS IRRIGATION IS TO BE REMOVED 1-2 DAYS PRIOR TO WASTE WATER FLOW THROUGH WETLANDS. ONCE IRRIGATION IS REMOVED, ENSURE ADEQUATE FLOW THROUGH WETLANDS TO ENSURE EMERGENT WETLAND AREAS ARE INUNDATED AND WILL NOT DRY OUT.
  - AFTER ONE CALENDAR YEAR FROM PLANTING COMPLETION, IRRIGATION FOR WETLANDS TRANSITION AREAS SHALL BE REDUCED. EACH ZONE WILL RUN FOR ONE HOUR, ONCE A DAY, FOR A TOTAL OF 0.5 GALLON PER DAY PER EMITTER.
  - AFTER TWO CALENDAR YEARS FROM PLANTING COMPLETION, IRRIGATION FOR WETLANDS TRANSITION AREAS SHALL BE REDUCED AGAIN. EACH ZONE WILL RUN FOR ONE HOUR, EVERY OTHER DAY, DELIVERING 0.5 GALLONS TO EACH PLANT 3-4 TIMES A WEEK.
  - WETLANDS TRANSITION IRRIGATION IS TO BE REMOVED 3 YEARS AFTER INSTALLATION.

### LEGEND

	VALVE
	MAINLINE
	1 1/2" POLYETHYLENE TUBING
	1/2" POLYETHYLENE PRESSURE COMPENSATING DRIP LINE 12" EMITTER SPACING, 1 GPH
	1/2" POLYETHYLENE PRESSURE COMPENSATING DRIP LINE 12" EMITTER SPACING, 0.5 GPH

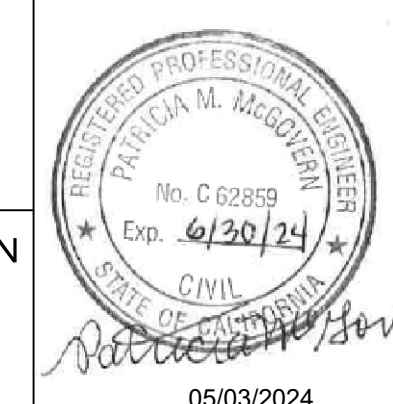
**IRRIGATION PLAN**  
1" = 10'

**CIVIC DESIGN REVIEW**

**CONTRACT NO. DB-132**

CITY AND COUNTY OF SAN FRANCISCO  
**PUBLIC UTILITIES COMMISSION**  
INFRASTRUCTURE DIVISION  
ENGINEERING MANAGEMENT BUREAU  
WASTEWATER ENTERPRISE  
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY  
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY

**TIF 555 WETLANDS**  
**IRRIGATION PLAN 3 OF 3**



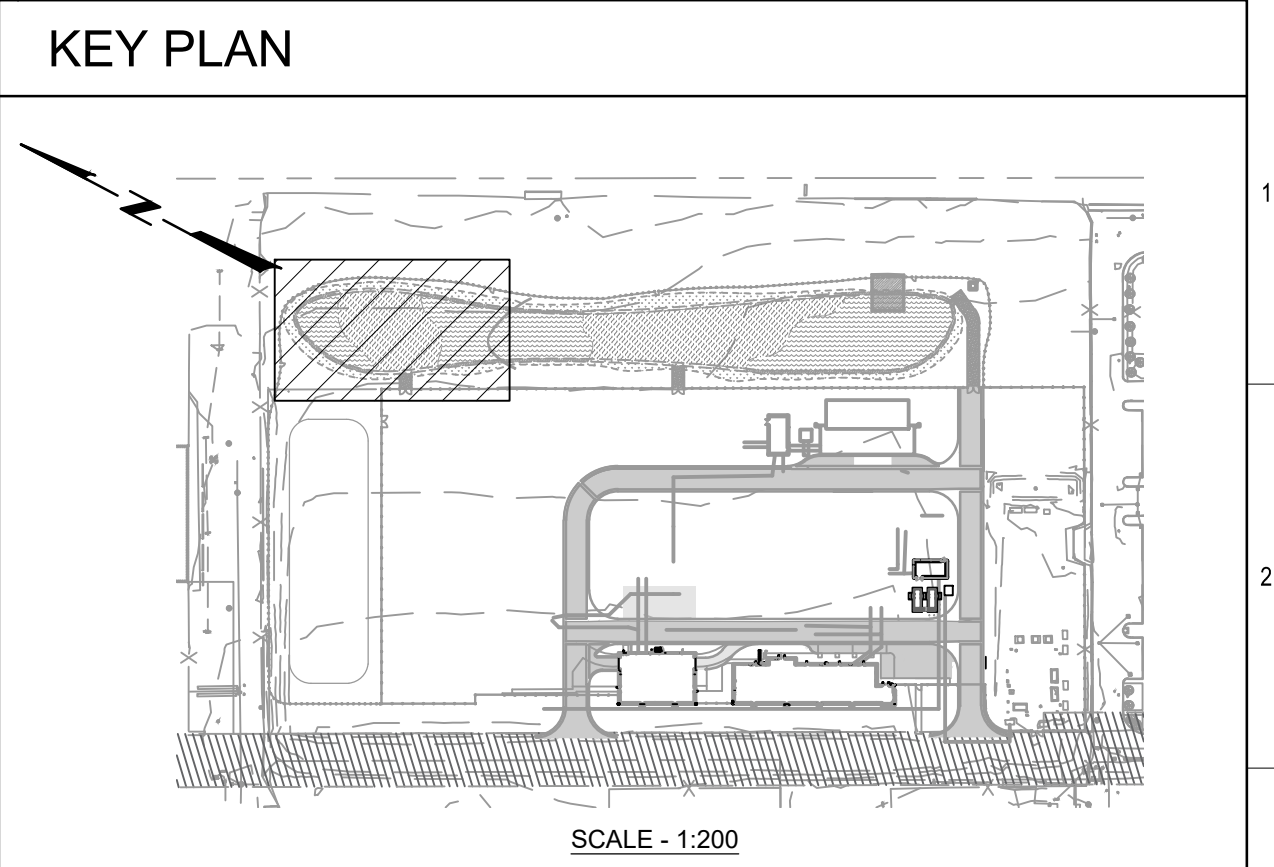
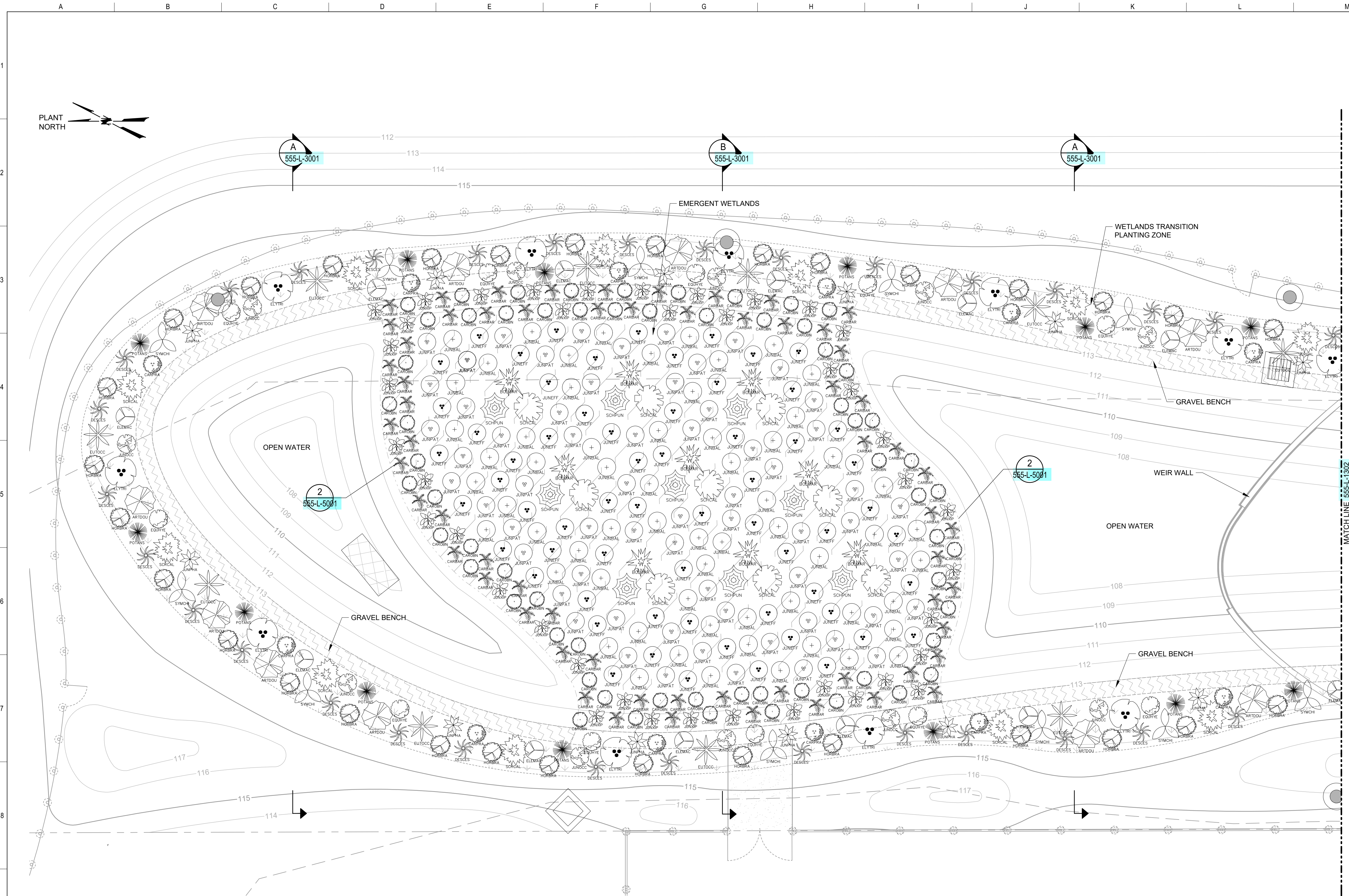
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WWE OPERATIONS MANAGER	SCALE 1" = 10'
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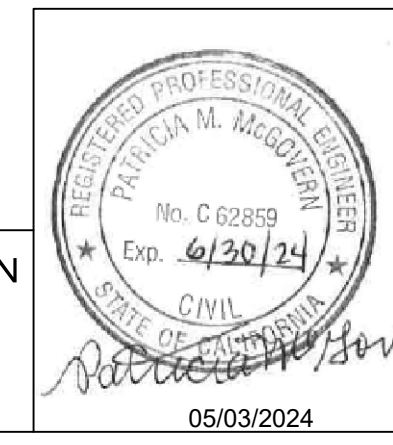
**PLANTING PLAN**  
1" = 10'

**CIVIC DESIGN REVIEW**

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<b>TIF 555 WETLANDS</b>	
<b>PLANTING PLAN 1 OF 3</b>	
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SECTION MANAGER	DESIGNED
WWE OPERATIONS MANAGER	SCALE 1" = 10'
DATE	05/03/2024
APPROVED	APPROVED
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PLAN NO. <b>555-L-1301</b>	DRAWING / FILE NO.
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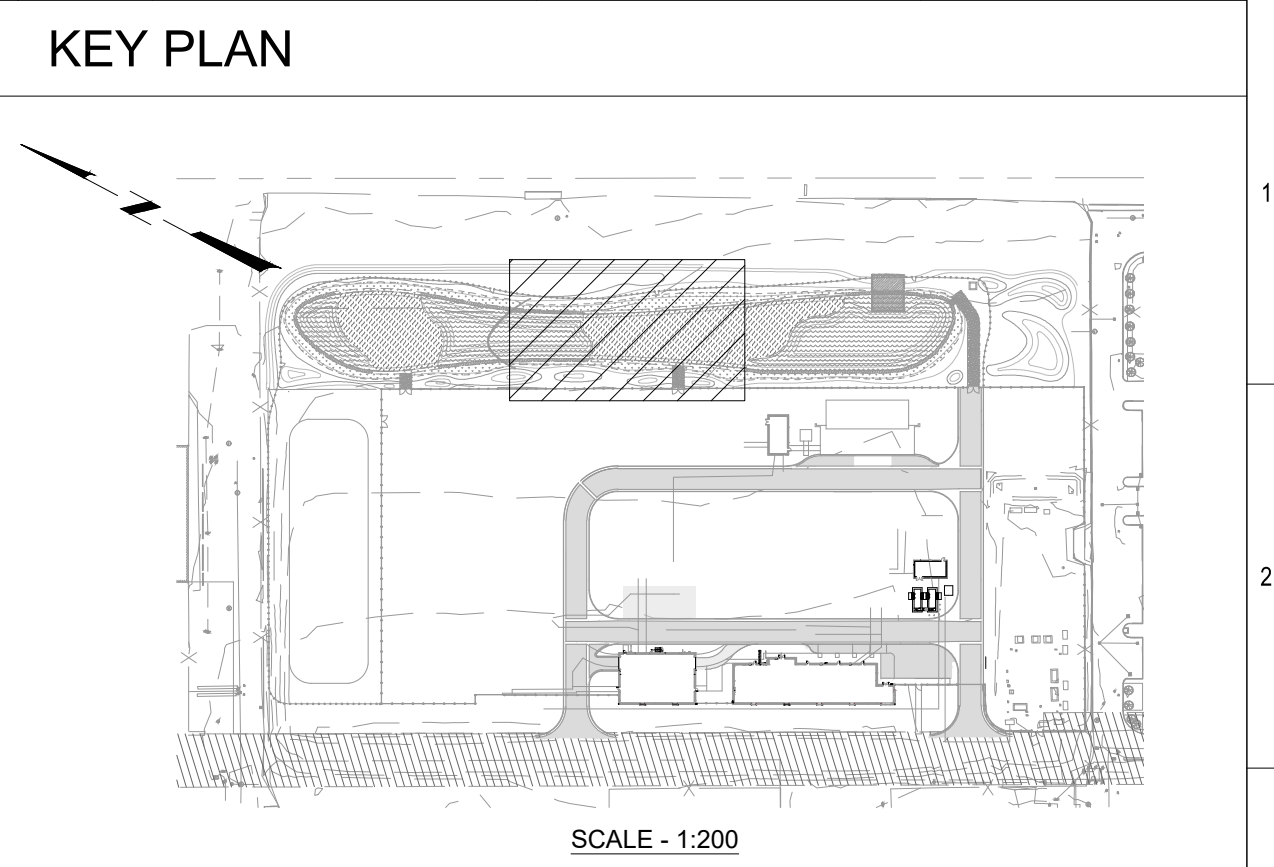
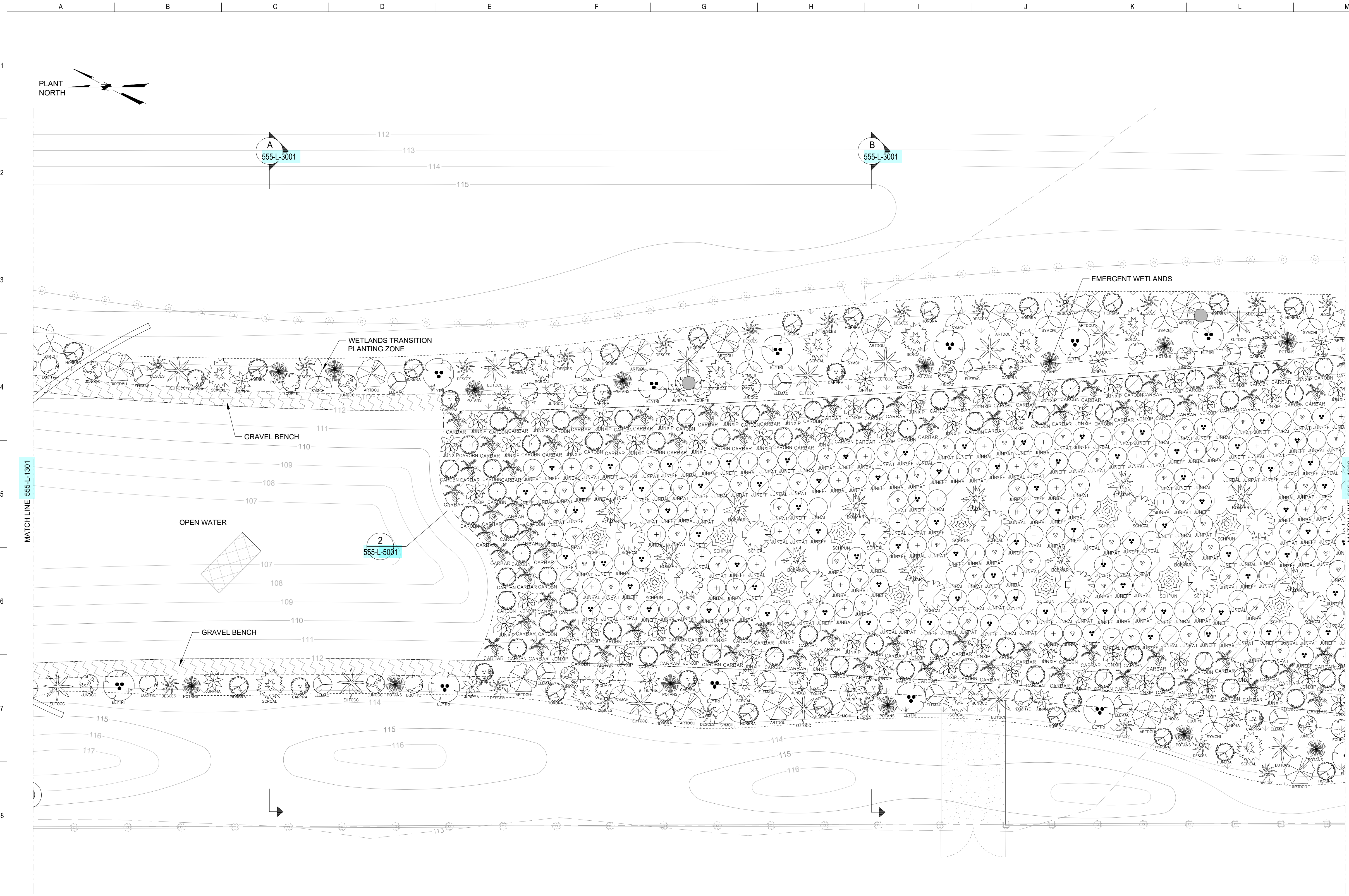
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GENERAL SHEET NOTES  
1. REFER TO SHEET 555-L-6001 FOR PLANTING SCHEDULE AND LEGEND.

PLANTING PLAN  
1" = 10'

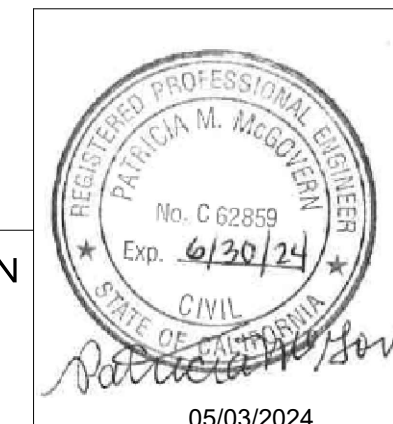
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TIF 555 WETLANDS  
PLANTING PLAN 2 OF 3

CHECKED / APPROVED	DRAWN
SECTION MANAGER	DESIGNED
WWE OPERATIONS MANAGER	SCALE 1" = 10' DATE 05/03/2024
APPROVED	APPROVED
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PLAN NO. 555-L-1302	DRAWING / FILE NO. 0

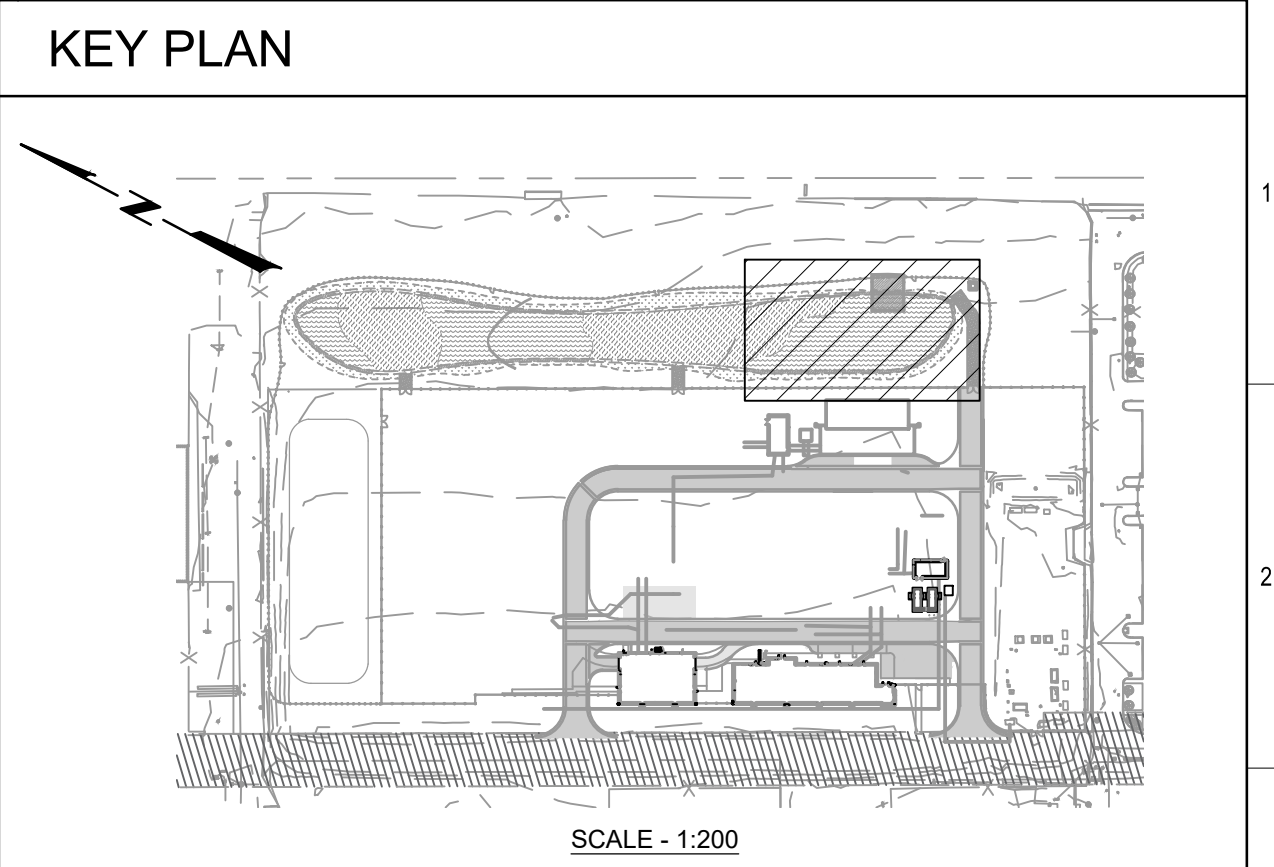
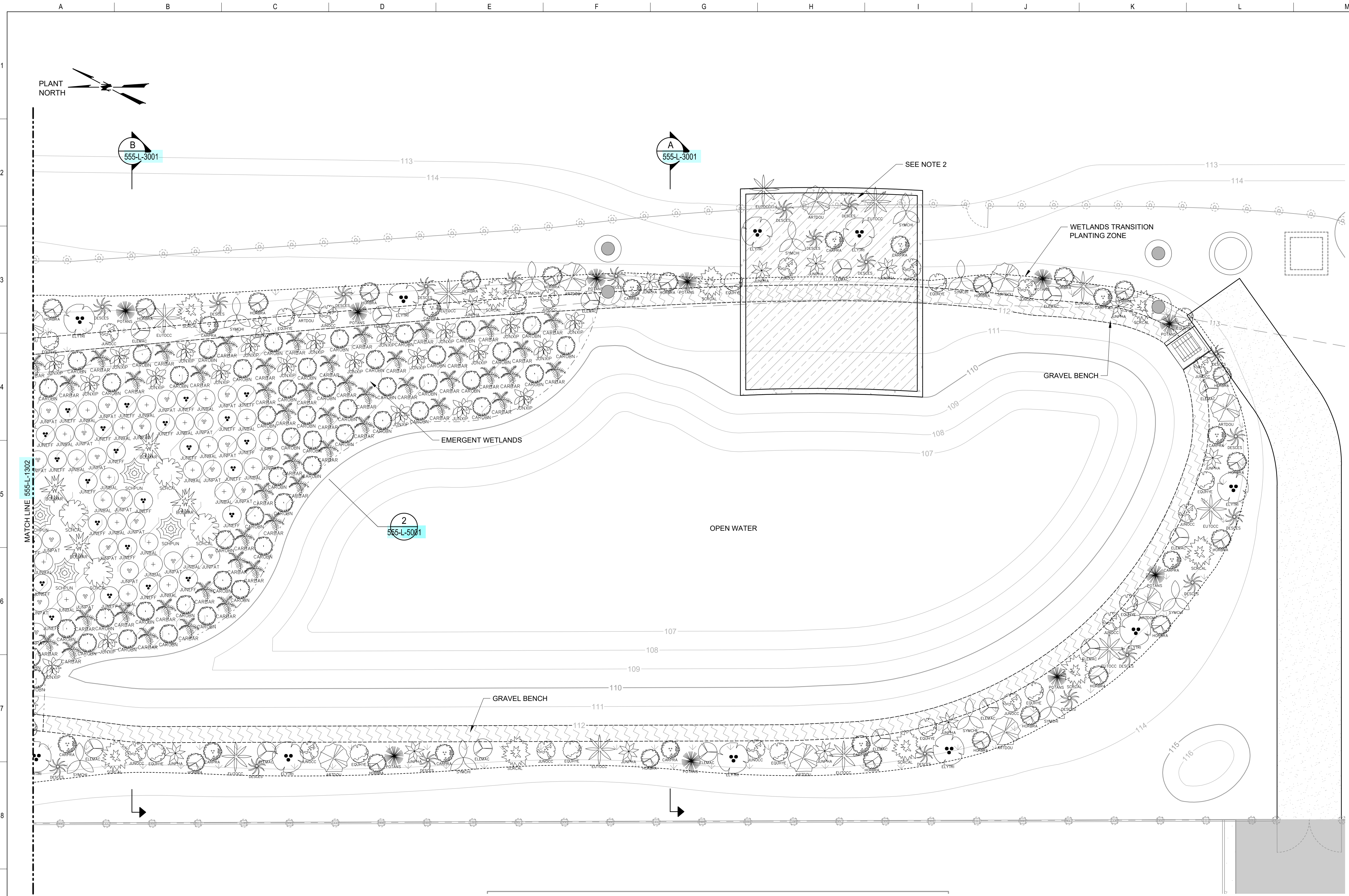
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ELEVATION DATUM NAVD88 +100.00'





- GENERAL SHEET NOTES**
- REFER TO SHEET 555-L-6001 FOR PLANTING SCHEDULE AND LEGEND.
  - PLANTINGS BEYOND WETLANDS PERIMETER AT OVERLAND SPILLWAY MAY BE MIXED WITH NON-WETLAND PLANTINGS PER LANDSCAPING DRAWINGS.

**PLANTING PLAN**  
1" = 10'

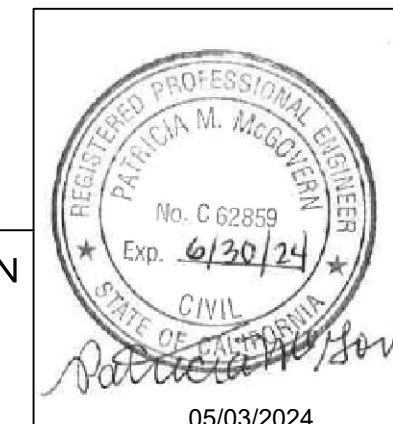
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**TIF 555 WETLANDS**  
**PLANTING PLAN 3 OF 3**

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SECTION MANAGER	DESIGNED
WWE OPERATIONS MANAGER	SCALE: 1" = 10'
DATE: 05/03/2024	APPROVED
MANAGER, ENGINEERING MANAGEMENT BUREAU	WWE ENGINEERING MANAGER
PLAN NO. <b>555-L-1303</b>	DRAWING / FILE NO. <b>0</b>

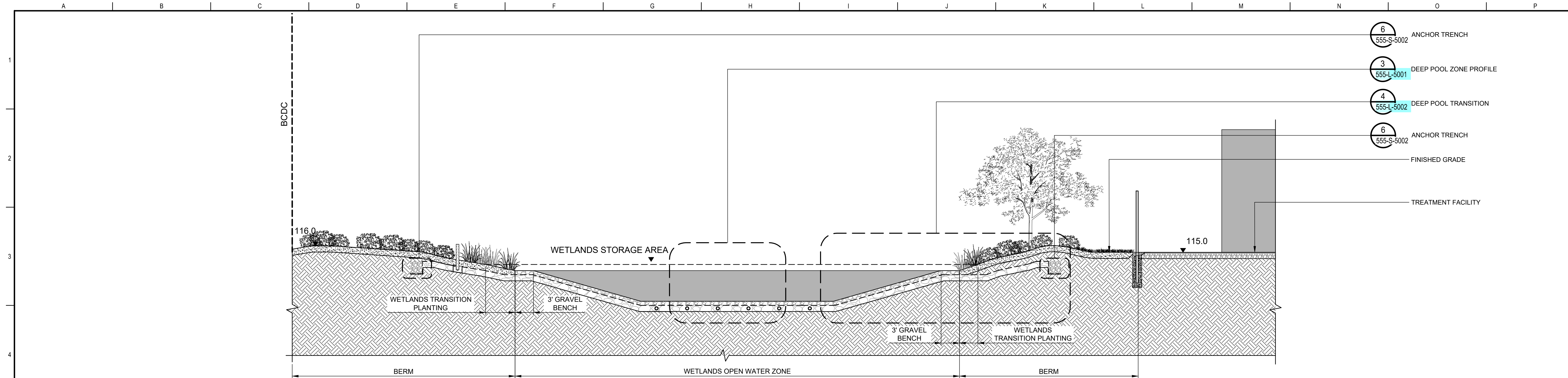
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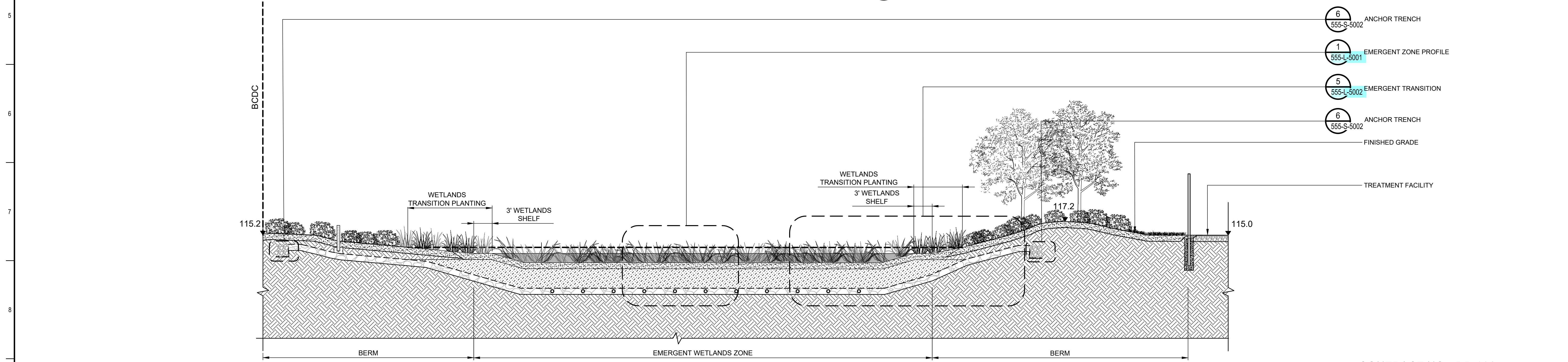
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**WETLANDS SECTION - OPEN WATER ZONE** A  
1/8"=1'-0" 555-L-1001



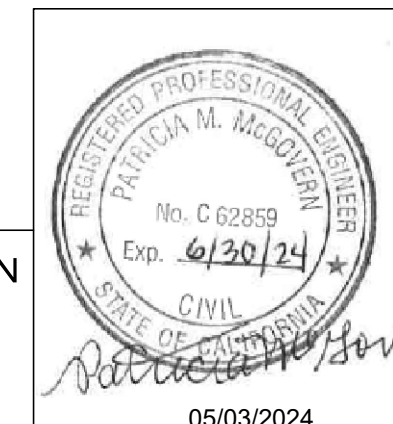
**WETLANDS SECTION - EMERGENT ZONE** B  
1/8"=1'-0" 555-L-1001

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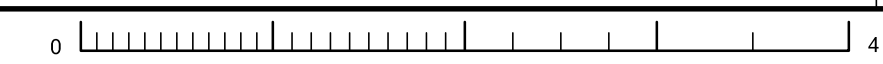
TIF 555 WETLANDS SECTIONS	
CHECKED / APPROVED	DRAWN
SECTION MANAGER	DESIGNED
WWE OPERATIONS MANAGER	SCALE: 1/8" = 1'-0" DATE: 05/03/2024
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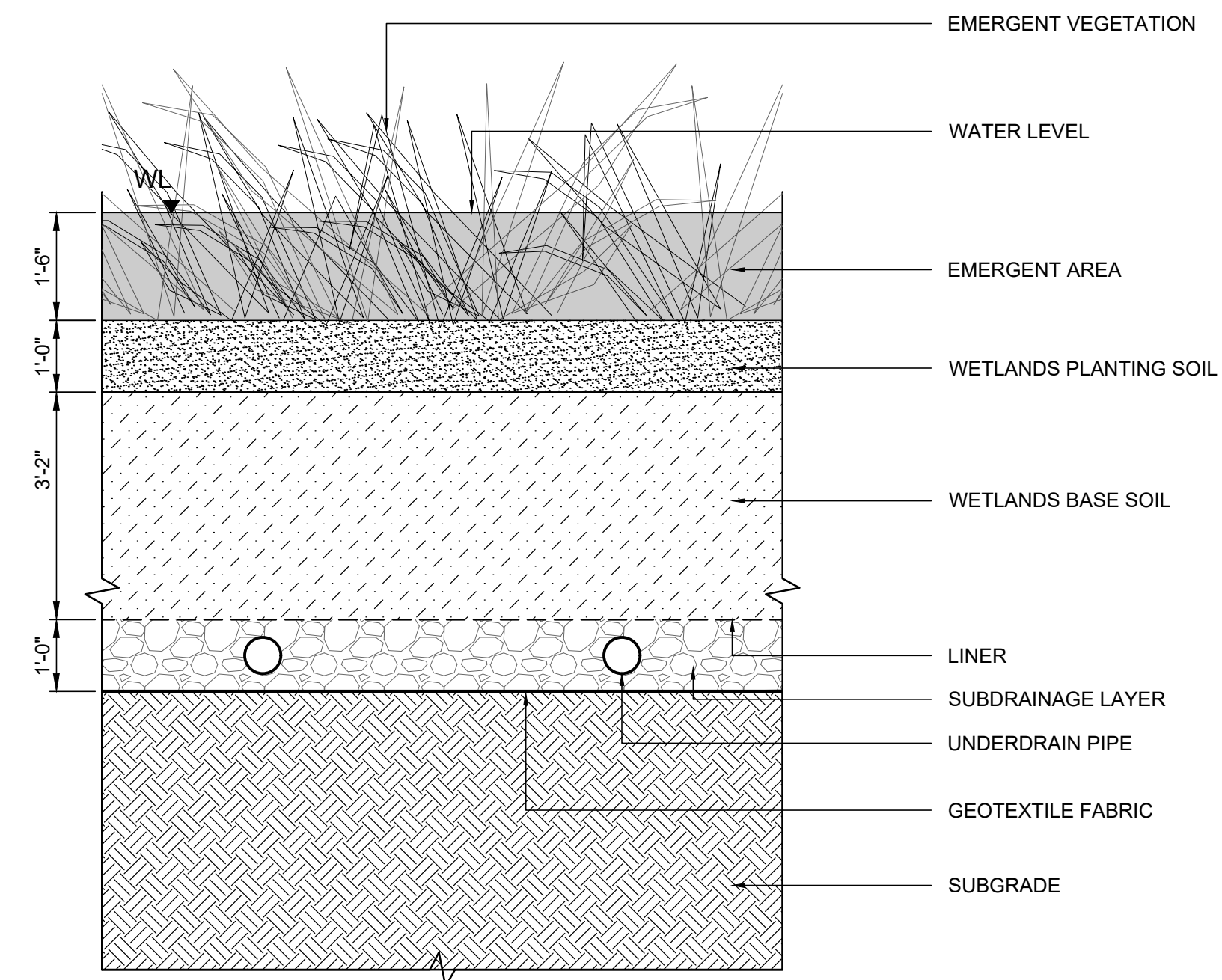


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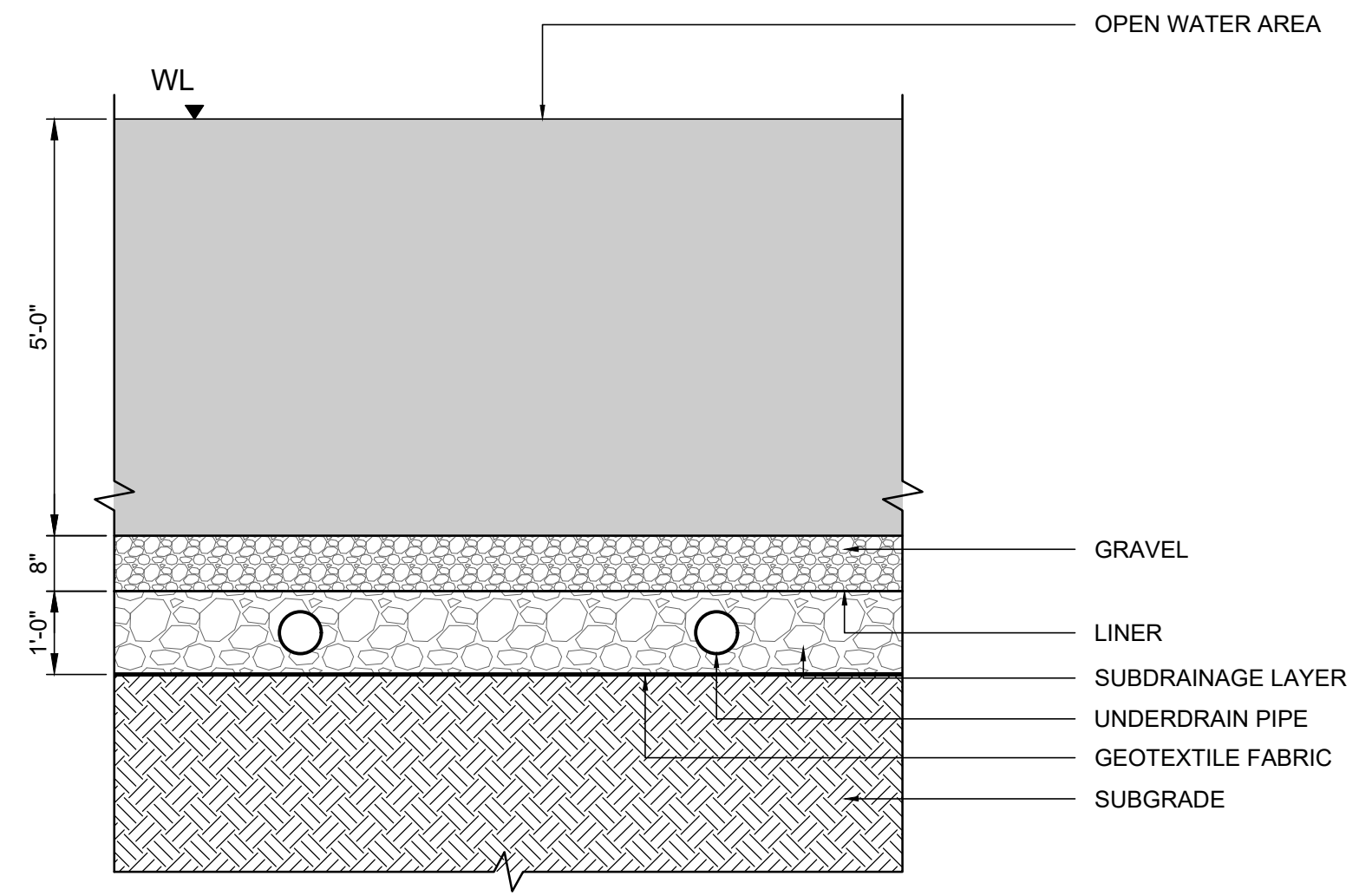
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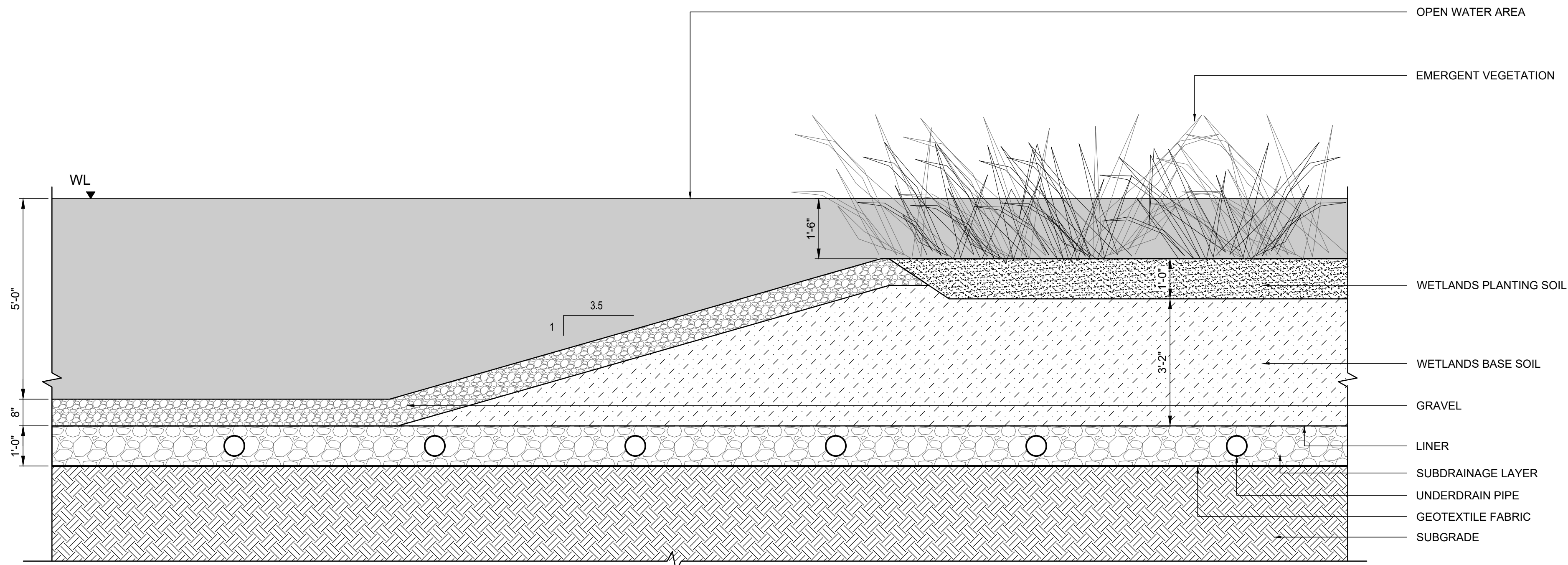




**EMERGENT WETLANDS AREA** 1  
1/2"=1'-0" 555-L-3001



**OPEN WATER AREA** 3  
1/2"=1'-0" 555-L-3001



**OPEN WATER AREA TO EMERGENT WETLANDS AREA TRANSITION** 2  
1/2"=1'-0" 555-L-1301

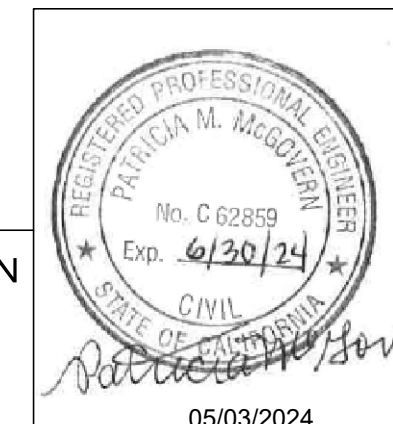
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**TIF 555 WETLANDS**  
**DETAILS 1 OF 3**

CHECKED / APPROVED	DRAWN
SECTION MANAGER	DESIGNED
WWE OPERATIONS MANAGER	SCALE: 1/2" = 1'-0"
APPROVED	DATE: 05/03/2024
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PLAN NO. <b>555-L-5001</b>	DRAWING / FILE NO. <b>0</b>

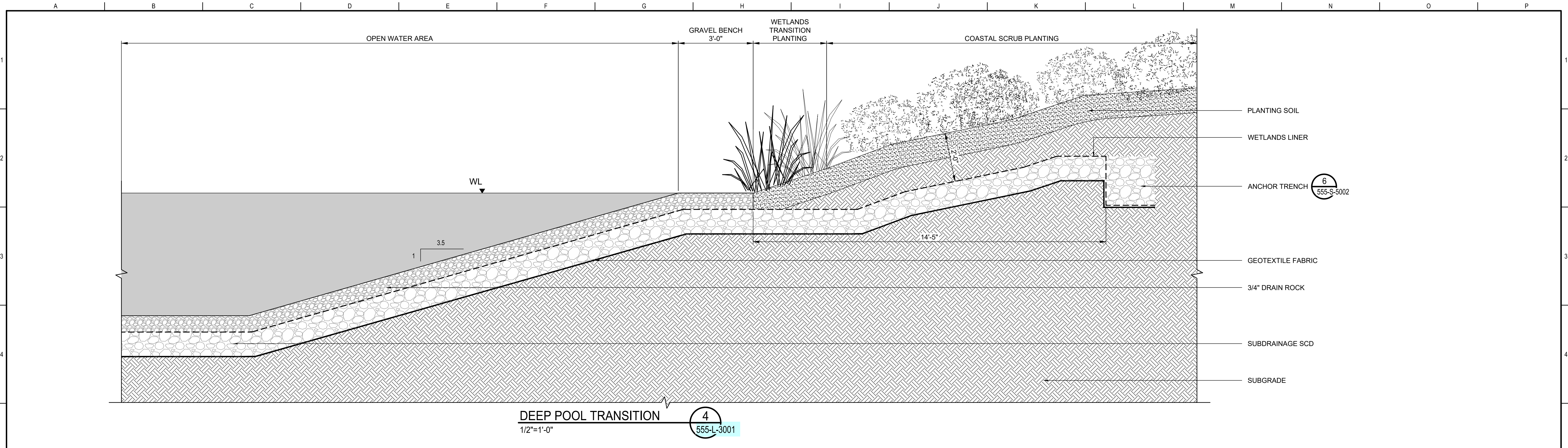
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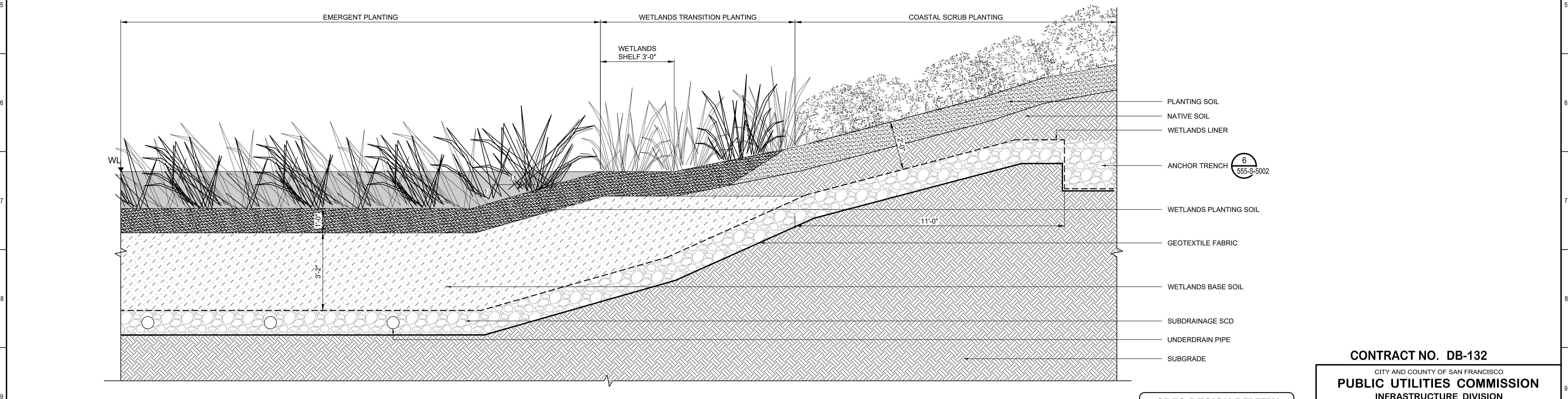
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**DEEP POOL TRANSITION**  
1/2"=1'-0" 4 555-L-3001



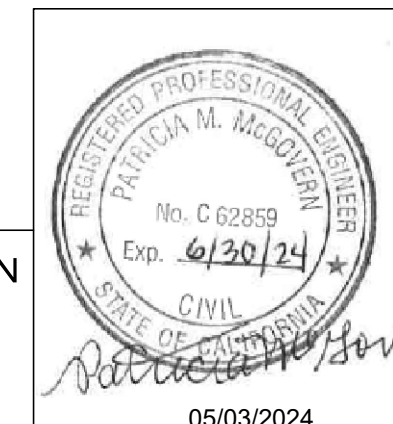
**EMERGENT TRANSITION**  
1/2"=1'-0" 5 555-L-3001

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**TIF 555 WETLANDS**  
**DETAILS 2 OF 3**

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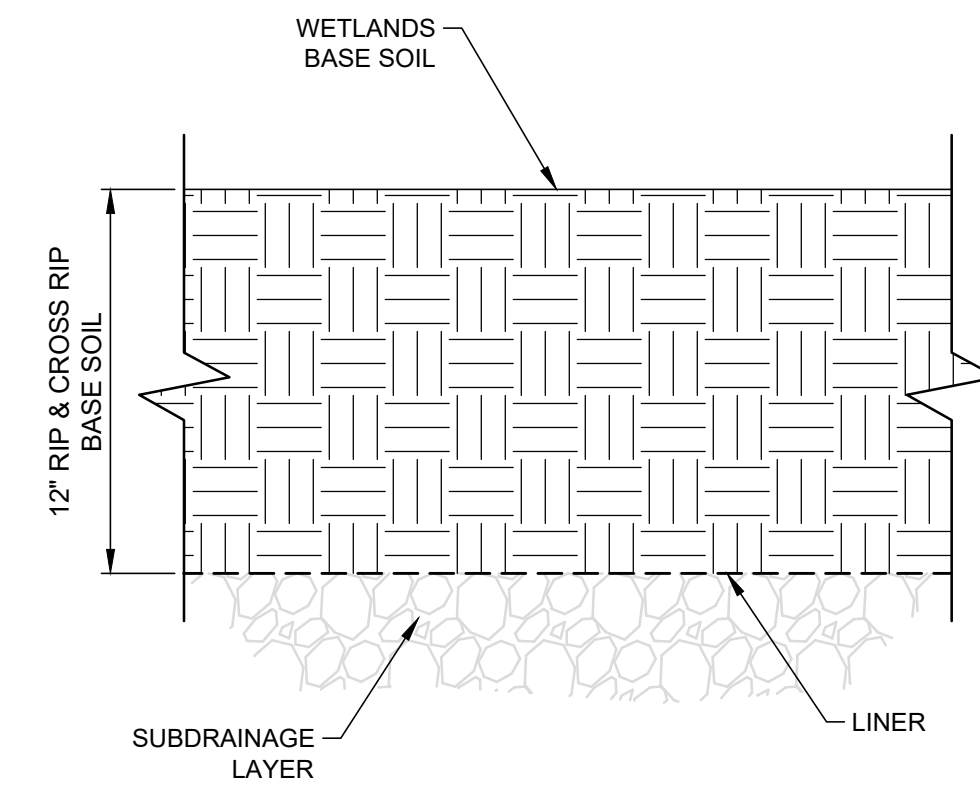
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SECTION MANAGER	DESIGNED
WWE OPERATIONS MANAGER	SCALE: 1/2" = 1'-0"
DATE	05/03/2024
APPROVED	APPROVED
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PLAN NO.	DRAWING / FILE NO.
<b>555-L-5002</b>	<b>0</b>

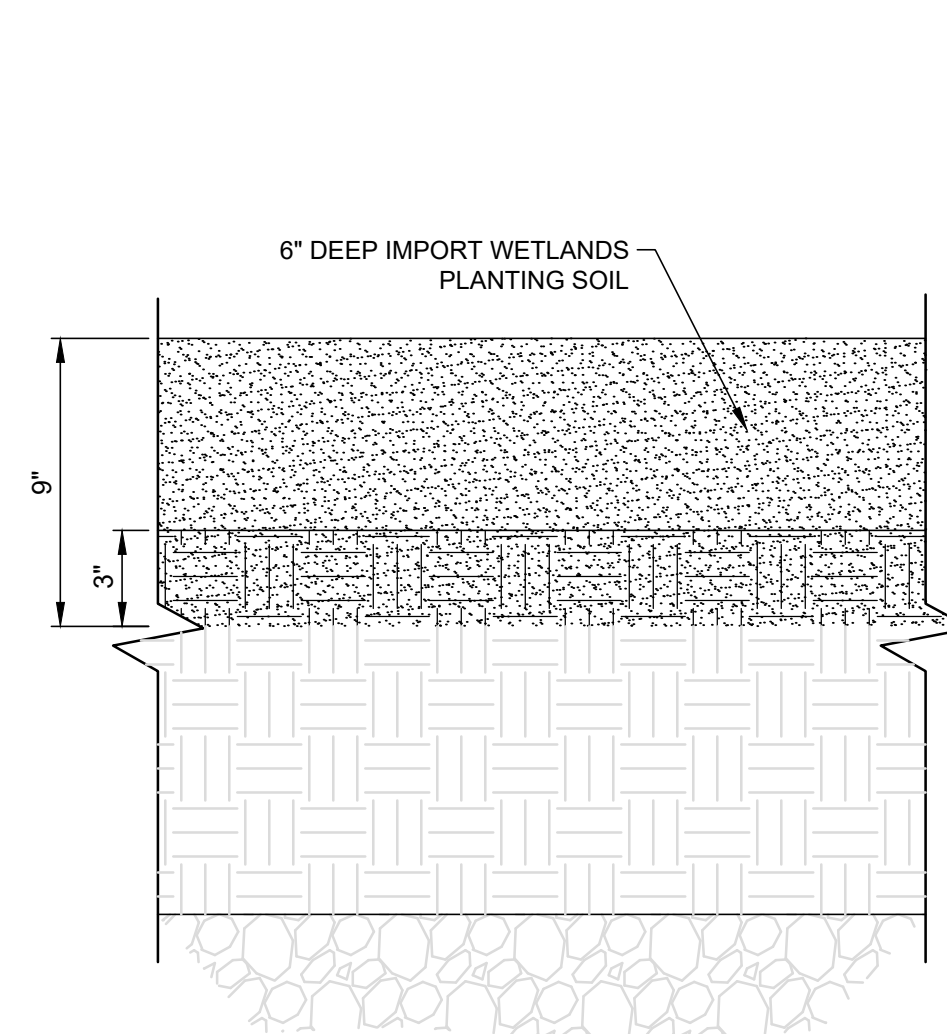


**SOIL NOTES**

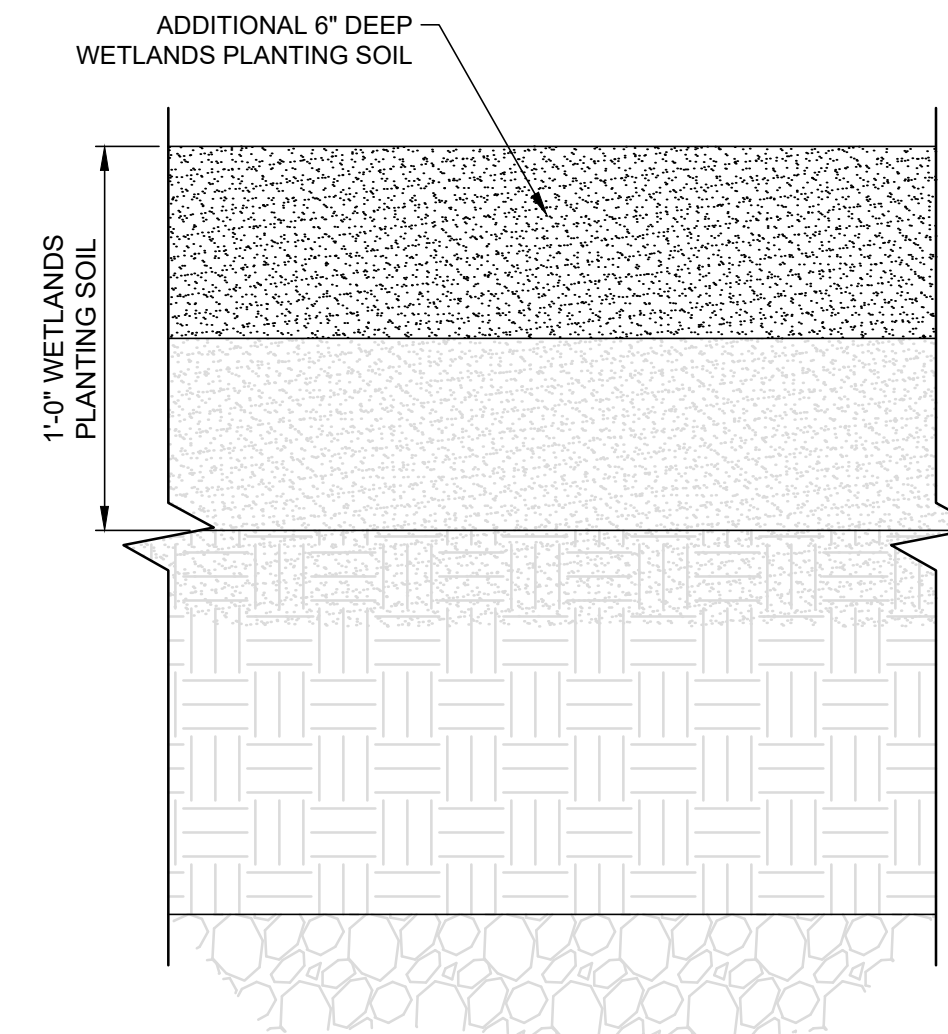
- SOILS IN THE WETLANDS EMERGENT AREAS AND THE 3'-0" WETLANDS SHELF OF THE TRANSITION PLANTING AREA WILL BE POLLUTANT FREE, AND SUPPORT THE WETLANDS AS DESCRIBED BELOW.
- WETLANDS BASE SOIL: THREE FEET, 2 INCHES (3'-2.07') OF SOIL ABOVE THE IMPERMEABLE LINER WILL COMPRISE OF WETLANDS BASE SOIL (APPROX. 2,820 CY). WETLANDS BASE SOIL MUST SUPPORT THE STRUCTURE OF THE EMERGENT AREAS AND BE POLLUTANT AND PHYTOPHTHORA FREE, AS CONFIRMED BY A SOILS LABORATORY (SEE SPECIFICATION 32 91 13).
- WETLANDS PLANTING SOIL: ONE FOOT OF SOIL ON TOP OF THE WETLANDS BASE SOIL WILL COMPRISE OF IMPORTED WETLANDS PLANTING SOIL (APPROX. 890 CY). WETLANDS PLANTING SOIL MUST BE FREE OF POLLUTANTS AND PHYTOPHTHORA, AND MUST SUPPORT THE ESTABLISHMENT OF WETLANDS PLANTS, AS CONFIRMED BY SOILS LABORATORY (SEE SPECIFICATION 32 91 13).
- ALL ROCK DEBRIS 1-1/2" AND LARGER SHALL BE REMOVED FROM WETLANDS SOIL.
- SOURCED SOIL SHALL BE ACQUIRED FROM A SOILS CONTRACTOR AND MAY NEED TO BE AMENDED TO OBTAIN PROPER CLAY, SILT AND ORGANIC MATTER COMPOSITION.
- CONTRACTOR SHALL ARRANGE TESTING OF SOIL BY A SOILS LABORATORY, WHICH NEEDS TO ENSURE SOILS ARE APPROPRIATE FOR THE SITE USE (I.E. FREE OF POLLUTANT AND SUPPORT EITHER WETLANDS STRUCTURE INTEGRITY OR SUPPORT WETLANDS PLANT ESTABLISHMENT). ADDITIONAL LABORATORY ANALYSIS FOR PARAMETERS SUCH AS SALINITY, SODIUM ABSORPTION RATIO (SAR), SODIUM HAZARD, BORON HAZARD, LIME CONTENT, ETC. MAY BE REQUESTED.
- REQUEST THAT THE LABORATORY MAKE RECOMMENDATIONS FOR AMENDING WETLANDS SOILS TO SUPPORT THE SITE USE NEEDS. THE TESTING LABORATORY SHALL BE PROVIDED PLANTING PLANS AND SCHEDULES. BASED ON TEST RESULTS AND RECOMMENDATIONS, SOIL MIX DESIGN SHALL BE FINALIZED TO INCLUDE RECOMMENDED AMENDMENTS SUCH AS SAND, ORGANIC AMENDMENTS, CONDITIONERS, AND NUTRIENT PACKAGES.
- CONTRACTOR WILL AMEND SOILS BASED ON LABORATORY RECOMMENDATIONS.
- BEFORE DELIVERY TO THE PLANTING AREAS, COMPOST, SOIL AMENDMENTS, INOCULANTS, AND OTHER ORGANIC PRODUCTS NEED TO BE EXAMINED AND DETERMINED TO BE LOW-RISK FOR PATHOGEN INTRODUCTION. ACCEPTABLE MATERIALS ARE THOSE THAT ARE FREE OF CONTAMINATION BY PLANT PATHOGENS BASED ON THEIR COMPOSITION OR MANUFACTURING CONDITIONS, OR THAT HAVE BEEN EXPOSED TO AN EFFECTIVE HEAT TREATMENT TO ELIMINATE PATHOGENS. SUCH MATERIALS MUST BE HANDLED AND STORED IN A MANNER THAT PREVENTS CONTAMINATION. AT THE JOB SITE, DELIVERED MATERIALS SHALL BE HANDLED TO PREVENT CONTAMINATION UNTIL DELIVERED TO EACH PLANTING SITE.
- IMPORTED SOILS SHALL BE STORED AT A TEMPORARY STOCKPILE AREA OR APPLIED DIRECTLY TO THEIR WETLANDS LOCATIONS, WHERE FEASIBLE AND ACCORDING TO LAYERING/DISCING RECOMMENDATIONS.
- WHEN STOCKPILED, WETLANDS SOILS MAY BE STORED FOR AS LONG AS TWO MONTHS, BUT STORED AS BRIEFLY AS POSSIBLE TO PREVENT ANAEROBIC CONDITIONS.
- STOCKPILED SOILS WILL BE PLACED ON GROUND TARPS AT STAGING AREAS. TARPS WILL CONSIST OF GEOCLOTH, OR ANOTHER TYPE OF IMPERMEABLE MEMBRANE, TO PREVENT CONTAMINATION AND MOISTURE UPTAKE FROM THE GROUND DURING STORAGE. SOIL PILES WILL BE COVERED WITH PLASTIC SHEETING AND STAKED TO HOLD THE SHEETING IN PLACE. COVER SHEETING WILL BE REFLECTIVE TO REDUCE HEAT, BUT PLACED IN A MANNER THAT ALLOWS VENTING.
- SOIL STOCKPILES WILL BE LINEAR AND NOT EXCEED 4 FT IN HEIGHT AND 8'-10" IN WIDTH.
- ALL MATERIALS TO BE INSTALLED AT THE SITE OR USED IN STOCKPILING SHALL BE OF NEW OR SANITIZED MATERIAL THAT HAS NOT BEEN STORED IN CONTACT WITH SOIL, UNTREATED SURFACE WATERS, OR OTHER POTENTIALLY CONTAMINATED MATERIALS. THIS INCLUDES SOILS MOVING AND STORAGE SUPPLIES SUCH AS VEHICLES, TARPS, EROSION CONTROL FABRICS, FENCING, STAKES, POSTS, AND OTHER PLANTING SITE INPUTS.
- SOIL CHEMISTRY TESTS WILL BE PERFORMED AT THE TIME OF STOCKPILING AND AGAIN AT THE TIME OF APPLICATION TO THE SITE TO DETERMINE WHETHER ANY ADVERSE CHANGES (SUCH AS CHANGES IN PH LEVELS) OCCURRED DURING STORAGE.
- TO AVOID PHYTOPHTHORA CONTAMINATION, THE EXTERIOR AND INTERIOR OF ALL EQUIPMENT AND TOOLS MUST BE CLEAN AND FREE OF DEBRIS, SOIL AND MUD (INCLUDING TIRES, TREADS, WHEEL WELLS AND UNDERCARRIAGE) PRIOR TO ARRIVAL AT A NEW JOB SITE.
- WORKING PRACTICES SHOULD MINIMIZE THE MOVEMENT OF SOIL WITHIN THE PLANTING AREA TO REDUCE THE LIKELIHOOD OF PATHOGEN SPREAD. STANDARD OPERATING PROCEDURES INCLUDE:
  - VEHICLES NEED TO STAY ON ESTABLISHED ROADS UNLESS INFEASIBLE.
  - VEHICLES AND EQUIPMENT NEED TO BE MAINTAINED CLEAN - INTERIOR AND EXTERIOR FREE OF MUD, DEBRIS AND SOIL, ESPECIALLY DURING THE WET SEASON.
  - WORK SHOES NEED TO BE KEPT CLEAN. INSPECT SHOE SOLES AND KNOCK MUD, DEBRIS AND SOIL OFF TREADS BEFORE MOVING TO A NEW AREA WITHIN JOB SITE.
  - TO MINIMIZE THE POTENTIAL FOR SPREADING POTENTIALLY CONTAMINATED SOIL AND TIME REQUIRED FOR DECONTAMINATION, IF POSSIBLE, AVOID VEHICLE TRAFFIC AND FIELD WORK WHEN SOILS ARE WET ENOUGH TO STICK READILY TO SHOES, TOOLS, EQUIPMENT AND TIRES.



STEP 1



STEP 2



STEP 3

- SOIL AMENDMENT SEQUENCE:**
- STEP 1: RIP & CROSS RIP WETLANDS BASE SOIL 12" DEEP AND LOOSEN ALL COMPACTED AREAS. TEETH MAX. 8" O.C.
  - STEP 2: PLACE 6" LAYER OF IMPORT WETLANDS PLANTING SOIL AND ROTOTILL INTO THE EXISTING SOIL 9" DEEP TO BREAK SOIL INTERFACE.
  - STEP 3: SPREAD 6" OF WETLANDS PLANTING SOIL.

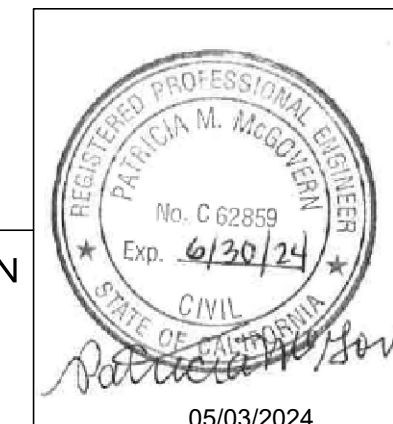
**ON-SITE SOIL AMENDMENT**

1"=1'-0"

6  
555-L-5003

**CIVIC DESIGN REVIEW**

PROJECT ENGINEER: B WONG PROJECT MANAGER: P MCGOVERN DRAWN: N BONDY DESIGNED: R CARDONA APPROVED: [Signature]			
REVISIONS NO. DATE DESCRIPTION BY APPRD			



ELEVATION DATUM  
NAVD88  
+100.00'

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**CONTRACT NO. DB-132**

CITY AND COUNTY OF SAN FRANCISCO  
**PUBLIC UTILITIES COMMISSION**  
INFRASTRUCTURE DIVISION  
ENGINEERING MANAGEMENT BUREAU

WASTEWATER ENTERPRISE  
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY  
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY

**TIF 555 WETLANDS**  
**DETAILS 3 OF 3**

CHECKED / APPROVED	DRAWN
SECTION MANAGER	DESIGNED
WWE OPERATIONS MANAGER	SCALE: 1" = 1'-0" DATE: 05/03/2024
APPROVED	APPROVED
MANAGER, ENGINEERING MANAGEMENT BUREAU	WWE ENGINEERING MANAGER
PLAN NO. <b>555-L-5003</b>	DRAWING / FILE NO. <b>0</b>



**Emergent Wetlands Planting Table: 19,272 plants comprising 9 native species to be installed in Cell 1 and Cell 2.**

**EMERGENT WETLANDS - CELL 1 (7,155 plants)**

SPECIES	COMMON NAME	SYMBOL	TYPE	CONTAINER	SPACING	# of PLANTS	GROUP SIZE	# of GROUPS	HEIGHT
<i>Carex barbarae</i>	Valley Sedge	CAR BAR	Sedge	Stub	1 ft	1240	20	62	1.6-3.3'
<i>Carex obnupta</i>	Slough sedge	CAR OBN	Sedge	Stub	1 ft	1240	20	62	3-3.9'
<i>Juncus balticus</i>	Baltic rush	JUN BAL	Rush	Stub	1 ft	1240	20	62	3'
<i>Juncus effusus</i>	Soft rush	JUN EFF	Rush	Stub	1 ft	1240	20	62	4.9-6.6'
<i>Juncus patens</i>	Common rush	JUN PAT	Rush	Stub	1 ft	1240	20	62	1-3'
<i>Juncus xiphioides</i>	Irisleaf rush	JUN XIP	Rush	Stub	1 ft	820	20	41	1-3'
<i>Bolboschoenus maritimus</i>	Alkali bullrush	BOL MAR	Sedge	Stub	3 ft	45	5	9	3'
<i>Schoenoplectus californicus</i>	CA tule	SCH CAL	Sedge	Stub	3 ft	45	5	9	6-12'
<i>Schoenoplectus pungens</i>	Three square	SCH PUN	Sedge	Stub	3 ft	45	5	9	1.5-6'

**EMERGENT WETLANDS - CELL 2 (12,600 plants)**

SPECIES	COMMON NAME	SYMBOL	TYPE	CONTAINER	SPACING	# of PLANTS	GROUP SIZE	# of GROUPS	HEIGHT
<i>Carex barbarae</i>	Valley Sedge	CAR BAR	Sedge	Stub	1 ft	2180	20	109	1.6-3.3'
<i>Carex obnupta</i>	Slough sedge	CAR OBN	Sedge	Stub	1 ft	2180	20	109	3-3.9'
<i>Juncus balticus</i>	Baltic rush	JUN BAL	Rush	Stub	1 ft	2180	20	109	3'
<i>Juncus effusus</i>	Soft rush	JUN EFF	Rush	Stub	1 ft	2180	20	109	4.9-6.6'
<i>Juncus patens</i>	Common rush	JUN PAT	Rush	Stub	1 ft	2180	20	109	1-3'
<i>Juncus xiphioides</i>	Irisleaf rush	JUN XIP	Rush	Stub	1 ft	1460	20	73	1-3'
<i>Bolboschoenus maritimus</i>	Alkali bullrush	BOL MAR	Sedge	Stub	3 ft	80	5	16	3'
<i>Schoenoplectus californicus</i>	CA tule	SCH CAL	Sedge	Stub	3 ft	80	5	16	6-12'
<i>Schoenoplectus pungens</i>	Three square	SCH PUN	Sedge	Stub	3 ft	80	5	16	1.5-6'

**Wetlands Transition Planting Table: 8,490 plants comprising 13 native species to be installed.**

**WETLANDS TRANSITION**

SPECIES	COMMON NAME	SYMBOL	TYPE	CONTAINER	SPACING	# of PLANTS	GROUP SIZE	# of GROUPS	HEIGHT
<i>Carex praegracilis</i>	Clustered field sedge	CAR PRA	Sedge	Stub	1 ft	760	20	38	2-3.5'
<i>Deschampsia cespitosa</i>	Tufted hairgrass	DES CES	Grass	Stub	1 ft	1540	20	77	3.3'
<i>Eleocharis macrostachya</i>	Spike rush	ELE MAC	Sedge	Stub	1 ft	760	20	38	1.6-3.3'
<i>Equisetum hyemale</i>	Scouringrush Horsetail	EQU HYE	Herb	Stub	1 ft	760	20	38	3'
<i>Hordeum brachyantherum</i>	Meadow Barley	HOR BRA	Grass	Stub	1 ft	1540	20	77	2-3.3'
<i>Juncus occidentalis</i>	Slender rush	JUN OCC	Rush	Stub	1 ft	760	20	38	1-2'
<i>Juncus phaeocephalus</i>	Brown headed rush	JUN PHA	Rush	Stub	1 ft	760	20	38	.8-1.6'
<i>Potentilla anserina ssp. pacifica</i>	Pacific silverweed	POT ANS	Herb	Stub	1 ft	760	20	38	1.5'
<i>Artemisia douglasiana</i>	Common Mugwort	ART DOU	Herb	Stub	3 ft	170	5	34	4-6'
<i>Elymus triticoides</i>	Creeping wild rye	ELY TRI	Grass	Stub	3 ft	170	5	34	2.1-4.3'
<i>Euthamia occidentalis</i>	Western Goldentop	EUT OCC	Herb	Stub	3 ft	170	5	34	3.5-7'
<i>Scrophularia californica</i>	Bee plant	SCR CAL	Herb	Stub	3 ft	170	5	34	2-4'
<i>Symphotrichum chilense</i>	California Aster	SYM CHI	Herb	Stub	3 ft	170	5	34	1.3-3.3'

**Seed Mix Table: Seed Mixes for Emergent Wetlands and Wetlands Transition.**

SEED MIX EMERGENT WETLANDS - 19,705 SQ. FT							
SPECIES	COMMON NAME	SYMBOL	TYPE	HEIGHT	GROWTH RATE	RATIO	
<i>Carex obnupta</i>	Slough sedge	CAR OBN	Sedge	3-3.9'	Fast	20.00%	
<i>Juncus xiphioides</i>	Irisleaf rush	JUN XIP	Rush	1-3'	Fast	20.00%	
<i>Juncus patens</i>	Common rush	JUN PAT	Rush	1-3'	Moderate	20.00%	
<i>Juncus balticus</i>	Baltic rush	JUN BAL	Rush	3'	Moderate	20.00%	
<i>Juncus effusus</i>	Soft rush	JUN EFF	Rush	4.9-6.6'	Moderate	20.00%	

SEED MIX WETLANDS TRANSITION - 13,205 SQ. FT							
SPECIES	COMMON NAME	SYMBOL	TYPE	HEIGHT	GROWTH RATE	RATIO	
<i>Epilobium ciliatum ssp. watsonii</i>	Fringed willow herb	EPI CIL	Herb	1.6-6'	Fast	16.67%	
<i>Carex praegracilis</i>	Clustered field sedge	CAR PRA	Sedge	2-3.5'	Moderate	16.67%	
<i>Eleocharis macrostachya</i>	Spike rush	ELE MAC	Sedge	1.6-3.3'	Fast	16.67%	
<i>Juncus balticus</i>	Baltic rush	JUN BAL	Rush	3'	Moderate	16.67%	
<i>Juncus phaeocephalus</i>	brown headed rush	JUN PHA	Rush	.8-1.6'	Moderate	16.67%	
<i>Juncus occidentalis</i>	Slender rush	JUN OCC	Rush	1-2'	Moderate	16.67%	

**PLANTING NOTES**

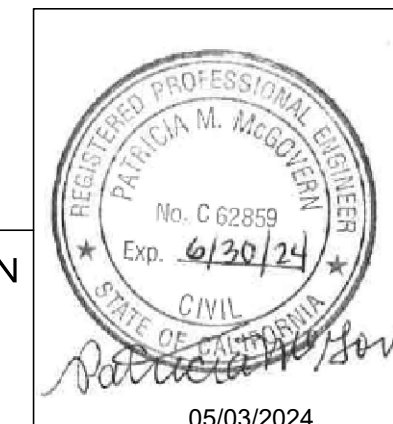
- ALL LANDSCAPING SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF SAN FRANCISCO REQUIREMENTS AND STANDARDS.
- CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS AND UTILITY LOCATIONS.
- PLANTING AND SEEDING SHALL BE BASED ON BEST PRACTICES FOR HABITAT AND ECOLOGICAL RESTORATION. ALL PLANTS SHALL BE NON-INVASIVE SPECIES.
- CONTRACTOR TO REFERENCE SECTION 32 93 00.
- ALLOW 1-1 1/2 YEARS, DEPENDING ON THE SPECIES, FOR THE NURSERY TO COLLECT, PROPAGATE, AND GROW THE PLANT STOCK TO A LEVEL THAT WILL WITHSTAND TRANSPORTATION AND IS READY FOR OUT-PLANTING AT THE SITE.
- PLANTING AT THE SITE SHALL OCCUR 6-12 MONTHS IN ADVANCE OF INUNDATION TO ALLOW PLANTS TO BECOME FULLY ESTABLISHED BEFORE PLANT START-UP, AND SHALL BE PLANTED DURING THE COOLER, WETTER MONTHS BETWEEN NOVEMBER 15 AND APRIL 15.
- SEEDS SHALL BE SOURCED FROM LOCAL SOURCES AND MAY ONLY BE AVAILABLE DURING GROWING SEASONS. PROCUREMENT OF CERTAIN SPECIES MAY REQUIRE UP TO ONE YEAR ADVANCE NOTICE.
- PLANT MATERIAL QUANTITIES ARE SHOWN FOR INFORMATION ONLY. CONTRACTOR SHALL VERIFY ALL QUANTITIES PRIOR TO ORDER. ALL PLANTS TO BE OF THE FINEST QUALITY AND FREE OF DISEASE OR DAMAGE. WARRANTY THAT ALL PLANTS WILL BE HEALTHY AND IN FLOURISHING CONDITION ONE YEAR FROM DATE OF FINAL ACCEPTANCE.
- NOTIFY ECOLOGIST 21 DAYS PRIOR TO DELIVERY OF PLANTS TO SITE.
- PLANTING STOCK SHALL BE PROTECTED FROM POTENTIAL CONTAMINATION FROM THE POINT IT LEAVES THE PRODUCTION NURSERY, DURING STORAGE AND STAGING, UNTIL PLANTING.
- FOR TRANSPORTATION AND STORAGE PROTOCOLS, SEE SECTION 32 93 00 ATTACHMENT A, "GUIDANCE TO MINIMIZE PHYTOPHTHORA CONTAMINATION IN RESTORATION PROJECT" (WORKING GROUP FOR PHYTOPHTHORAS IN NATIVE HABITATS, 2016).
- NURSERY PLANTS SHALL BE TRANSPORTED ON OR IN VEHICLES OR EQUIPMENT THAT HAVE BEEN CLEANED BEFORE LOADING THE STOCK, TRUCK BEDS, RACKS, OR OTHER SURFACES NEED TO BE SWEEPED, BLOWN WITH COMPRESSED AIR AND/OR POWER WASHED AS NEEDED SO THEY ARE VISIBLY FREE OF SOIL AND PLANT DETRITUS.
- AT THE JOB SITE, PLANTS SHALL BE HANDLED TO PREVENT CONTAMINATION UNTIL DELIVERED TO EACH PLANTING SITE. NURSERY STOCK SHALL NOT BE PLACED ON THE SOIL OR OTHER POTENTIALLY CONTAMINATED SURFACES UNTIL THEY ARE PLACED AT THEIR SPECIFIC PLANTING SITES.
- IF IT IS NECESSARY TO OFFLOAD PLANTS AT THE JOB SITE, PLANTS MAY BE PLACED ON CLEAN WATERPROOF PLASTIC TARP OR OTHER CLEAN, SANITIZED SURFACE. IF TARPS ARE USED FOR HOLDING PLANTS, ONE SURFACE NEEDS TO BE DEDICATED FOR CONTACT WITH NURSERY STOCK AND WILL BE CLEANED AND SANITIZED TO MAINTAIN PHYTOSANITARY CONDITIONS.
- IF PLANTS ARE TO BE STORED FOR LONGER THAN TWO DAYS, THEN THEY ARE TO BE WATERED AT REGULAR INTERVALS TO PREVENT DESICCATION OF ROOT SYSTEMS. DO NOT ALLOW PLANTS TO DRY OUT, WASHING, SOAKING, OR IRRIGATION OF PLANT MATERIAL SHALL BE CONDUCTED USING CLEAN WATER SOURCES.
- PLANT MATERIAL LOCATIONS SHOWN ARE DIAGRAMMATICALLY AND MAY BE SUBJECT TO CHANGE IN THE FIELD, AS APPROVED BY ECOLOGIST. PLANTS ARE TO BE INSTALLED IN A TRIANGULAR SPACING PATTERN.
- IF PLANT SPACING DETAIL OVERLAPS WITH MANHOLES/UTILITIES, CONTRACTOR MAY ADJUST PLANT SPACING TO ACCOMMODATE. SEE CIVIL DRAWINGS, ELECTRICAL DRAWINGS, AND LANDSCAPE DRAWINGS FOR LOCATION OF UTILITIES.
- DO NOT APPLY MULCH TO EMERGENT WETLAND, WETLAND TRANSITION AREAS, AND AREAS ADJACENT AND DIRECTLY UPSTREAM OF WETLANDS.
- HERBICIDES AND PESTICIDES SHALL BE PRODUCTS APPROVED BY SAN FRANCISCO ENVIRONMENT INTEGRATED PEST MANAGEMENT (REFER TO SAN FRANCISCO REDUCED-RISK PESTICIDE LIST: [HTTPS://SFENVIRONMENT.ORG/PEST-MANAGEMENT-FOR-CITY-DEPARTMENTS](https://sfenvironment.org/pest-management-for-city-departments)).
- WETLAND IRRIGATION SYSTEMS ARE TO BE INSTALLED AND RUN FOR TWO WEEKS PRIOR TO PLANTING. IRRIGATION LINES ARE TO BE AVOIDED WHEN WALKING AND SHOULD NOT COME IN CONTACT WITH TOOLS. SMALL SECTIONS OF TUBING CAN TEMPORARILY BE MOVED TO FACILITATE STAGING OR MOVEMENT OF MATERIALS AS NECESSARY, BUT SHOULD SUBSEQUENTLY BE REPLACED IMMEDIATELY.
- IRRIGATION SCHEDULE SHOULD BE MAINTAINED THROUGHOUT PLANTING ACTIVITIES AND MANAGED TO ENSURE WATER DELIVERY TO SITE WITHOUT INCONVENIENCE TO PLANT INSTALLATION. AT THE END OF EACH PLANTING DAY, MANUALLY RUN IRRIGATION FOR THE AREA IN WHICH PLANTS WERE INSTALLED.
- EMITTERS SPACING CAN BE USED AS A GUIDE TO ACCOMPLISH SPACING DETAIL AS OUTLINED IN PLANTING DESIGN. ENSURE THAT PLANTS ARE PLACED ADJACENT TO AN EMITTER TO INCREASE WATER AVAILABILITY TO THE PLANT'S ROOT SYSTEM.
- PLAN WORKFLOW TO CREATE MINIMAL FOOT TRAFFIC AND REDUCE TRAMPLING AS MUCH AS POSSIBLE.
- FOLLOW PLANT INSTALLATION INSTRUCTIONS FROM SECTION 32 93 00 - 3.1 F GROUND COVER PLANTING FOR ALL PLANTS IN EMERGENT WETLANDS AND WETLANDS TRANSITION AREAS.
- FOLLOW SEEDING INSTRUCTIONS FROM SECTION 32 93 00 - 3.1 H SEED MIX DISPERSAL FOR ALL PLANTS IN EMERGENT WETLANDS AND WETLANDS TRANSITION AREAS.
- EMERGENT WETLANDS PLANTS SHALL BE INSTALLED ACCORDING TO EMERGENT WETLAND SPACING DETAIL. WETLANDS TRANSITION PLANTS SHALL BE INSTALLED ACCORDING TO WETLANDS TRANSITIONS PLANTING SPACING DETAIL. PLANTINGS BEYOND WETLANDS PERIMETER AT OVERLAND SPILLWAY MAY BE MIXED WITH NON-WETLAND PLANTINGS PER LANDSCAPING DRAWINGS.
- EMERGENT WETLANDS AND WETLANDS TRANSITIONS AREAS ARE TO BE SEEDED WITH RESPECTIVE SEED MIXES AS SOON AS POSSIBLE AFTER THE COMPLETION OF PLANTING AND IN ADVANCE OF PREDICTED RAIN, BUT NO LONGER THAN ONE MONTH AFTER PLANTING OCCURS.
- THE DESIGN INTENT OF THE PLANTING PLAN IS TO ESTABLISH WETLAND HABITAT THAT PROVIDES FOR LOCAL WILDLIFE, AS WELL AS CREATE ATTRACTIVE APPEARANCE. FUTURE PLANT GROWTH MAY NECESSITATE TRIMMING, PRUNING, AND IN SOME CASES, REMOVAL OF PLANTINGS AS AN ONGOING MAINTENANCE PROCEDURE.
- FROM THE TIME THE PLANTS ARE RECEIVED UNTIL ACCEPTANCE OF THE WETLANDS BY THE SFPUC, MAINTENANCE LOGS WILL BE KEPT THAT RECORD, AT A MINIMUM, PLANT ESTABLISHMENT AND MAINTENANCE, IRRIGATION SCHEDULES AND RECORDS, AND RATES OF PLANT ESTABLISHMENT VERSUS LOSS.

**CIVIC DESIGN REVIEW**

**Stantec**  
**MCGOVERN MCDONALD**  
 WATER | ENVIRONMENT | ENERGY

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PROJECT ENGINEER	B WONG	DRAWN	N BONDY
PROJECT MANAGER	P MCGOVERN	DESIGNED	R CARDONA
APPROVED		CHECKED	



**CONTRACT NO. DB-132**

CITY AND COUNTY OF SAN FRANCISCO  
**PUBLIC UTILITIES COMMISSION**  
 INFRASTRUCTURE DIVISION  
 ENGINEERING MANAGEMENT BUREAU

WASTEWATER ENTERPRISE  
 TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY  
 TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY

**TIF 555 WETLANDS**

**WETLANDS PLANTING SCHEDULE**

CHECKED / APPROVED	DRAWN
SECTION MANAGER	DESIGNED
WWE OPERATIONS MANAGER	SCALE
	N.T.S.
DATE	05/03/2024
APPROVED	APPROVED
MANAGER, ENGINEERING MANAGEMENT BUREAU	WWE ENGINEERING MANAGER
PLAN NO.	DRAWING / FILE NO.
<b>555-L-6301</b>	<b>0</b>

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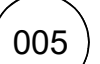



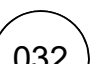
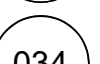















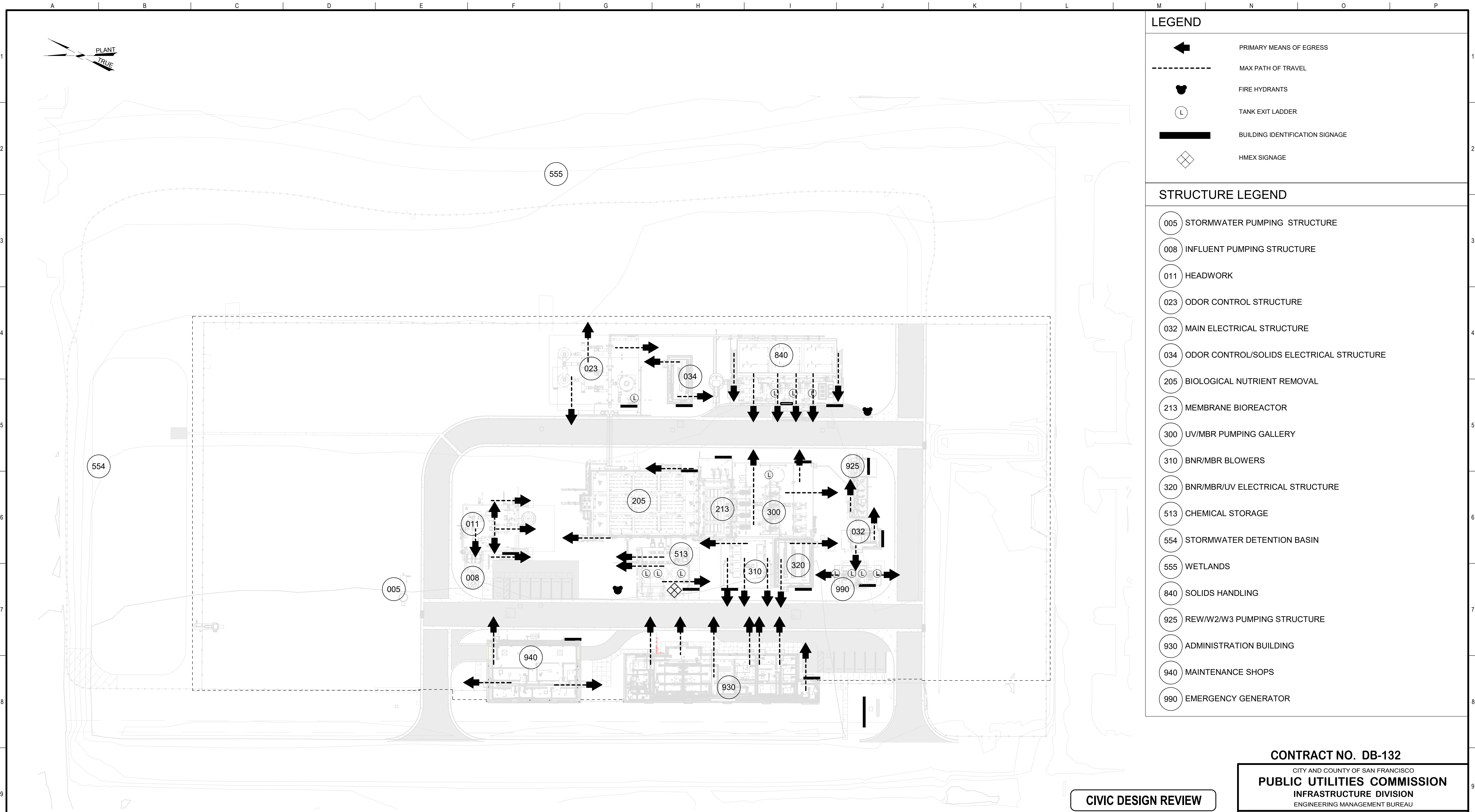


**LEGEND**

-  PRIMARY MEANS OF EGRESS
-  MAX PATH OF TRAVEL
-  FIRE HYDRANTS
-  TANK EXIT LADDER
-  BUILDING IDENTIFICATION SIGNAGE
-  HMEX SIGNAGE

**STRUCTURE LEGEND**

-  005 STORMWATER PUMPING STRUCTURE
-  008 INFLUENT PUMPING STRUCTURE
-  011 HEADWORK
-  023 ODOR CONTROL STRUCTURE
-  032 MAIN ELECTRICAL STRUCTURE
-  034 ODOR CONTROL/SOLIDS ELECTRICAL STRUCTURE
-  205 BIOLOGICAL NUTRIENT REMOVAL
-  213 MEMBRANE BIOREACTOR
-  300 UV/MBR PUMPING GALLERY
-  310 BNR/MBR BLOWERS
-  320 BNR/MBR/UV ELECTRICAL STRUCTURE
-  513 CHEMICAL STORAGE
-  554 STORMWATER DETENTION BASIN
-  555 WETLANDS
-  840 SOLIDS HANDLING
-  925 REWW2/W3 PUMPING STRUCTURE
-  930 ADMINISTRATION BUILDING
-  940 MAINTENANCE SHOPS
-  990 EMERGENCY GENERATOR

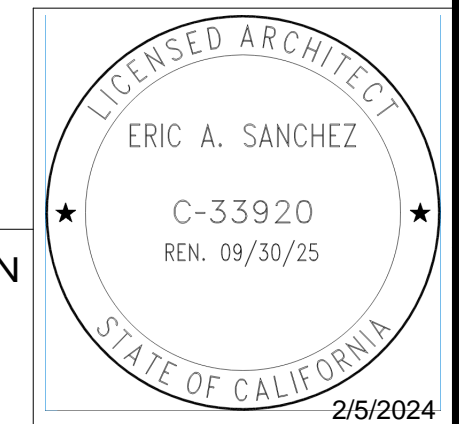



**OVERALL LIFE SAFETY AND SIGNAGE PLAN**

1" = 40'-0"

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PROJECT ENGINEER	B WONG	DRAWN	E NAVARRO
PROJECT MANAGER	T BROWN	DESIGNED	E NAVARRO
APPROVED		CHECKED	
NO.	DATE	DESCRIPTION	BY APPRD
REVISIONS			

**CIVIC DESIGN REVIEW**

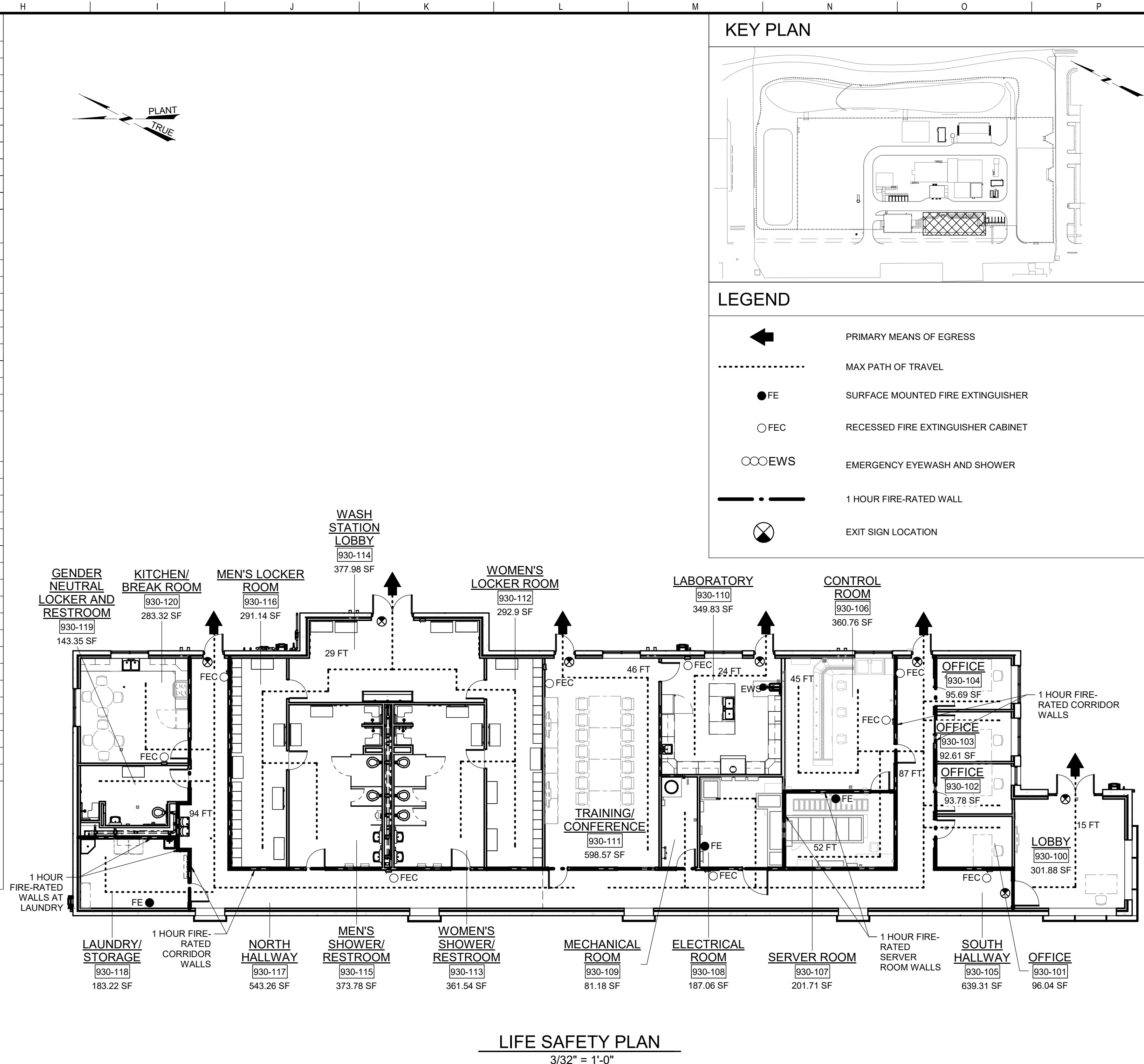
<b>CONTRACT NO. DB-132</b>			
CITY AND COUNTY OF SAN FRANCISCO			
<b>PUBLIC UTILITIES COMMISSION</b>			
INFRASTRUCTURE DIVISION			
ENGINEERING MANAGEMENT BUREAU			
WASTEWATER ENTERPRISE			
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY			
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY			
<b>TIF 000 SITEWIDE</b>			
<b>OVERALL SITE LIFE SAFETY AND SIGNAGE PLAN</b>			
CHECKED / APPROVED	DRAWN		
SECTION MANAGER	DESIGNED		
WWE OPERATIONS MANAGER	SCALE	1/32" = 1'-0"	DATE
APPROVED	APPROVED		
MANAGER, ENGINEERING MANAGEMENT BUREAU		WWE ENGINEERING MANAGER	
PLAN NO.	DRAWING / FILE NO.	REVISION NO.	
<b>000-A-0001</b>		<b>0</b>	



BUILDING CODE SUMMARY										
OWNER: CITY AND COUNTY OF SAN FRANCISCO PUBLIC UTILITIES COMMISSION					DATE: APRIL 2023					
PROJECT NAME: TREASURE ISLAND WATER RECOVERY RESOURCE FACILITY					PROJECT NO: 184031705					
PROJECT LOCATION: TREASURE ISLAND SAN FRANCISCO, CALIFORNIA					ARCHITECT: ERIC SANCHEZ					
AREA/BUILDING: 930 ADMINISTRATION BUILDING					LICENSE NO: C-33920					
GOVERNING CODES										
BUILDING CODE: 2022 CALIFORNIA BUILDING CODE, TITLE 24, PART 2 W/ 2022 SAN FRANCISCO AMENDMENTS					ENERGY CODE: 2022 CALIFORNIA ENERGY CODE, TITLE 24, PART 6					
FIRE CODE: 2022 CALIFORNIA FIRE CODE W/ 2019 SAN FRANCISCO FIRE CODE AMENDMENTS										
GREEN CODE: 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE CAL GREEN, TITLE 24, PART 11					OTHER: NFPA 101 LIFE SAFETY CODE					
ACCESSIBILITY CODE: 2010 AMERICANS W/ DISABILITIES ACT STANDARDS FOR ACCESSIBLE DESIGN, ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES ICC A117.1-2010										
USE AND OCCUPANCY CLASSIFICATION/ALLOWABLE AREA AND HEIGHT (1)										
OCCUPANCY GROUP AND DESCRIPTION		CONSTRUCTION TYPE	ALLOWABLE HEIGHT	ALLOWABLE AREA	AUTOMATIC SPRINKLER INCREASE	ACTUAL AREA	ACTUAL AREA / ALLOWABLE AREA RATIO	AREA MODIFICATION FRONTAGE INCREASE		
B-1 BUSINESS		TYPE IIB	75 FEET	23,000 SF	-	6,426 SF	6,426/23,000 = 0.28% < 1.0	-		
OCCUPANCY SEPARATION (2)					FIRE RESISTANCE RATING OF STRUCTURAL ELEMENTS (4)					
OCCUPANCIES	ASSEMBLY RATING	ACCESSORY USE (3)		STRUCTURAL FRAME	BEARING WALLS EXTERIOR	BEARING WALLS INTERIOR	FLOOR CONSTRUCTION	ROOF CONSTRUCTION	EXT WALLS BASED ON SEPARATION DISTANCE (5)	
		ROOM OR AREA	SEPARATION PROTECTION						EXTERIOR SEPARATION DISTANCE	
B-1	0 HRS	CORRIDOR/ LAUNDRY	1 HOUR	0 HRS	0 HRS	0 HRS	0 HRS	0 HRS	10 FEET <= X < 30 FEET	0 HRS
B-1	0 HRS	SERVER ROOM	1 HOUR	0 HRS	0 HRS	0 HRS	0 HRS	0 HRS	10 FEET <= X < 30 FEET	0 HRS
FIRE PROTECTION SYSTEMS (6)										
FIRE EXTINGUISHERS: EVERY 75 FEET					AUTOMATIC FIRE PROTECTION SYSTEM: REQUIRED IN SERVER ROOM PER NFPA 75 DATA CENTERS					
MEANS OF EGRESS (7)										
OCCUPANCY		FUNCTION OF SPACE	MAXIMUM FLOOR AREA PER OCCUPANT	TOTAL OCCUPANT LOAD	COMMON PATH OF TRAVEL DISTANCE	EXITS REQUIRED	EXITS PROVIDED	EXIT ACCESS TRAVEL DISTANCE	CORRIDOR FIRE-RESISTANCE RATING	
TRAINING/ CONFERENCE		BUSINESS	150	16	-	1	2	46 FT	1 HOUR	
WASH STATION LOBBY		BUSINESS	150	3	23	1	1	23 FT	1 HOUR	
LABORATORY		BUSINESS	150	3	24	1	1	24 FT	1 HOUR	
CONTROL ROOM		BUSINESS	150	3	32	1	2	45 FT	1 HOUR	
LOBBY		BUSINESS	150	3	-	1	2	15 FT	1 HOUR	
KITCHEN/ BREAK ROOM		BUSINESS	150	8	22	1	1	35 FT	1 HOUR	
GENDER NEUTRAL LOCKER AND RESTROOM		BUSINESS	150	1	19	1	1	37 FT	1 HOUR	
LAUNDRY/ STORAGE		BUSINESS	150	2	20	1	1	53 FT	1 HOUR	
MEN'S LOCKER ROOM		BUSINESS	150	2	16	1	1	50 FT	1 HOUR	
MEN'S SHOWER/ RESTROOM		BUSINESS	150	3	-	1	2	54 FT	1 HOUR	
WOMEN'S LOCKER ROOM		BUSINESS	150	2	16	1	1	50 FT	1 HOUR	
WOMEN'S SHOWER/ RESTROOM		BUSINESS	150	3	-	1	2	54 FT	1 HOUR	
MECHANICAL ROOM		BUSINESS	150	1	12	1	1	87 FT	1 HOUR	
SERVER ROOM		BUSINESS	150	2	35	1	1	52 FT	1 HOUR	
ELECTRICAL ROOM		BUSINESS	150	1	17	1	1	80 FT	1 HOUR	
OFFICE		BUSINESS	150	1	15	1	1	40 FT	1 HOUR	
OFFICE		BUSINESS	150	1	15	1	1	34 FT	1 HOUR	
OFFICE		BUSINESS	150	1	15	1	1	27 FT	1 HOUR	
OFFICE		BUSINESS	150	1	15	1	1	20 FT	1 HOUR	

- (1) CBC CHAPTER 3 - USE AND OCCUPANCY CLASSIFICATION, IBC CHAPTER 5 - GENERAL BUILDING HEIGHTS AND AREAS, TABLE 503 - ALLOWABLE HEIGHT AND BUILDING AREAS
- (2) CBC CHAPTER 5, TABLE 508.3.3 - REQUIRED SEPARATION OF OCCUPANCIES
- (3) CBC CHAPTER 5, TABLE 508.2 - INCIDENTAL USE AREAS
- (4) CBC CHAPTER 6 - TYPES OF CONSTRUCTION, TABLE 601 - FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS
- (5) CBC CHAPTER 6 - TYPES OF CONSTRUCTION, TABLE 602 - FIRE-RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE
- (6) CBC CHAPTER 9 - FIRE PROTECTION SYSTEMS
- (7) CBC CHAPTER 10 - MEANS OF EGRESS

THERMAL RESISTANCE SUMMARY				
BUILDING CLIMATE ZONE = 3		ZIP CODE = 94130		
ASSEMBLY	CONCRETE SLAB FOUNDATION (VERTICAL 24 INCHES)	PROVIDED R-VALUE	PROVIDED U-FACTOR	REQUIRED U-FACTOR
	POLYISOCYANURATE RIGID INSULATION BOARD	10.00	0.100	MAX 0.200
<b>EXTERIOR MASS WALL</b>				
	8" & 12" CAST IN PLACE CONCRETE WALL			
	POLYISOCYANURATE RIGID INSULATION BOARD	10.00	0.100	MAX 0.650
	METAL STUD, AIR FILM, GYPSUM BOARD			
<b>EXTERIOR DOOR, SWINGING</b>				
	HM DOOR W/POLYURETHANE	2.63	0.380	MAX 0.70
<b>STOREFRONT DOOR</b>				
	U-FACTOR	2.439	0.41	MAX 0.41
	SOLAR HEAT GAIN COEFFICIENT (SHGC)		0.26	MAX 0.26
	VISIBLE TRANSMITTANCE (VT)		0.46	MIN 0.46
<b>FIXED WINDOW</b>				
	U-FACTOR	2.778	0.36	MAX 0.36
	RELATIVE SOLAR HEAT GAIN COEFFICIENT (RSHGC)		0.25	MAX 0.25
	VISIBLE TRANSMITTANCE (VT)		0.42	MIN 0.42
<b>FIXED WINDOW REFLECTIVE</b>				
	U-FACTOR	2.778	0.36	MAX 0.36
	RELATIVE SOLAR HEAT GAIN COEFFICIENT (RSHGC)		0.25	MAX 0.25
	VISIBLE TRANSMITTANCE (VT)		0.42	MIN 0.42
<b>SKYLIGHT (SRR% = 5% OF GROSS ROOF AREA) PLASTIC, CURB MOUNTED</b>				
	U-FACTOR	1.13	0.88	MAX 0.88
	SOLAR HEAT GAIN COEFFICIENT (SHGC)		NR	NR
	VISIBLE TRANSMITTANCE (VT)		0.64	MIN 0.64
<b>METAL FRAMED ROOF</b>				
	SINGLE PLY PVC ROOF MEMBRANE SYSTEM			
	RIGID INSULATION ROOF BOARD	30.00	0.033	MAX 0.034
	-AGED SOLAR REFLECTANCE		0.65	MIN 0.63
	-THERMAL EMITTANCE	0.75	0.75	MIN 0.75
	OR			
	SOLAR REFLECTANCE INDEX (SRI)	75	75	MIN 75
<b>AIR BARRIER</b>				
	YES	YES	YES	REQUIRED
*R-VALUE / U-FACTOR ARE OBTAINED FROM MFR DATA SHEET UNLESS OTHERWISE NOTED. REQUIRED U-FACTOR OBTAINED FROM TABLE 140.3-B OF CALIFORNIA ENERGY CODE 2022.				



**LIFE SAFETY PLAN**  
3/32" = 1'-0"

**CIVIC DESIGN REVIEW**

**Stantec**

PROJECT ENGINEER: B WONG | DRAWN: P JOSHI  
 PROJECT MANAGER: T BROWN | DESIGNED: E NAVARRO  
 APPROVED: [Signature] | CHECKED: [Signature]

**CONTRACT NO. DB-132**

CITY AND COUNTY OF SAN FRANCISCO  
**PUBLIC UTILITIES COMMISSION**  
 INFRASTRUCTURE DIVISION  
 ENGINEERING MANAGEMENT BUREAU  
 WASTEWATER ENTERPRISE  
 TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY  
 TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY  
 TIF 930 ADMINISTRATION BUILDING  
**CODE SUMMARY AND LIFE SAFETY PLAN**

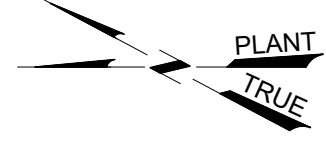
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 WWS ENGINEERING MANAGER: [Signature]

PLAN NO: **930-A-1001** | DRAWING / FILE NO: [Blank] | REVISION NO: **0**

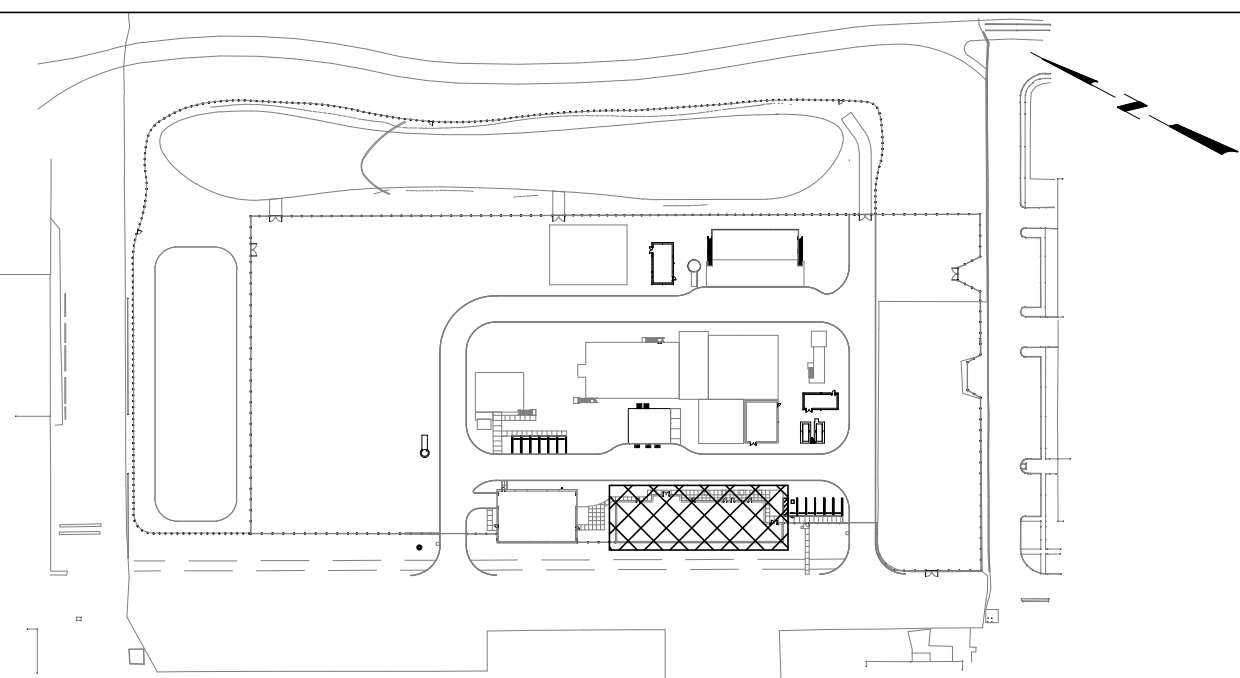
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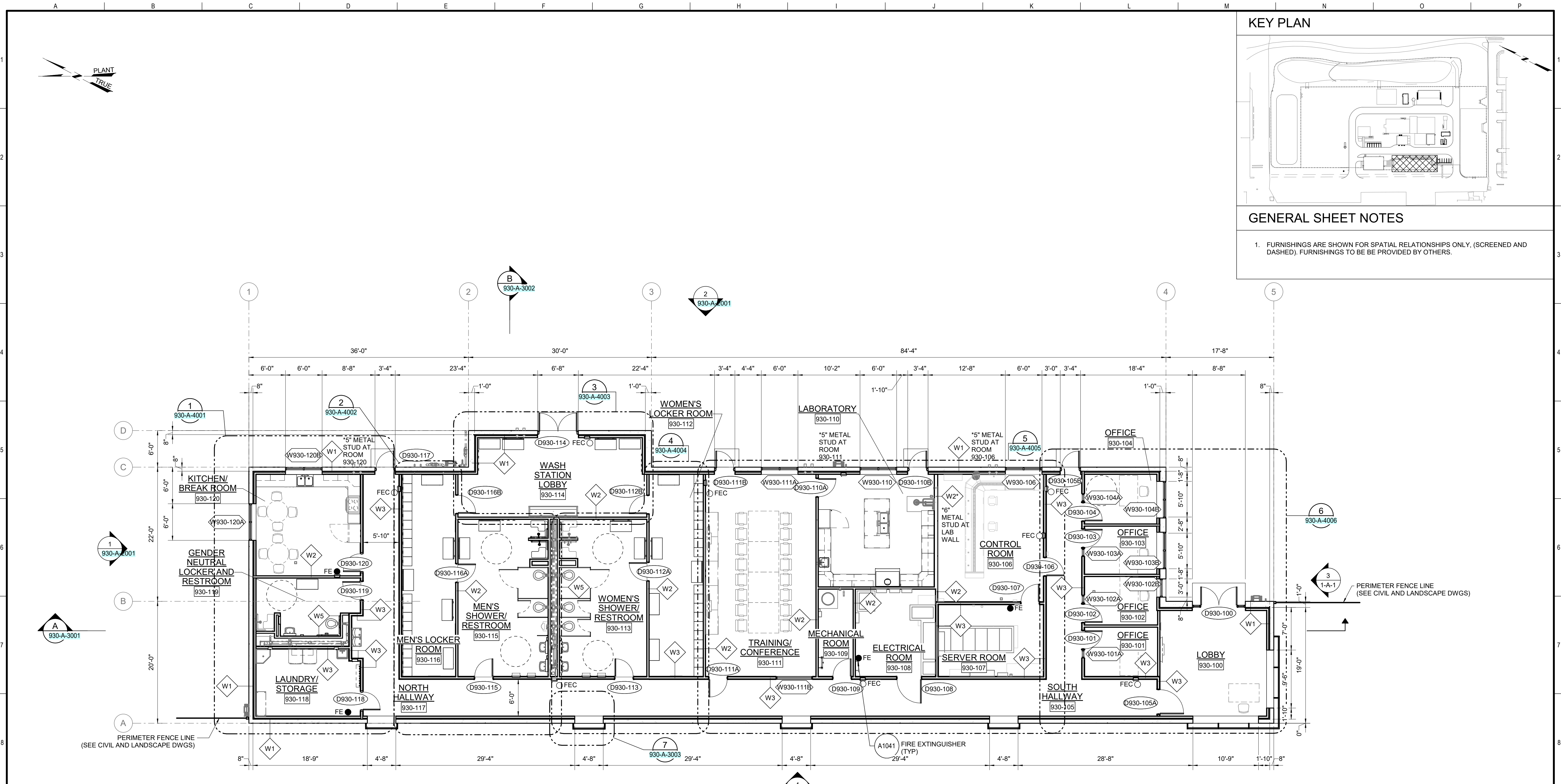


### KEY PLAN



### GENERAL SHEET NOTES

- FURNISHINGS ARE SHOWN FOR SPATIAL RELATIONSHIPS ONLY, (SCREENED AND DASHED). FURNISHINGS TO BE PROVIDED BY OTHERS.



**LEVEL 1 PLAN**  
1/8" = 1'-0"

**CONTRACT NO. DB-132**

CITY AND COUNTY OF SAN FRANCISCO  
**PUBLIC UTILITIES COMMISSION**  
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ENGINEERING MANAGEMENT BUREAU

WASTEWATER ENTERPRISE  
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY  
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY

TIF 930 ADMINISTRATION BUILDING

**LEVEL 1 PLAN**

**CIVIC DESIGN REVIEW**



PROJECT ENGINEER	B WONG	DRAWN	P JOSHI
PROJECT MANAGER	T BROWN	DESIGNED	E NAVARRO
APPROVED		CHECKED	

CHECKED / APPROVED	DRAWN
SECTION MANAGER	DESIGNED
WWE OPERATIONS MANAGER	SCALE AS SHOWN
DATE	05/08/2024
APPROVED	APPROVED

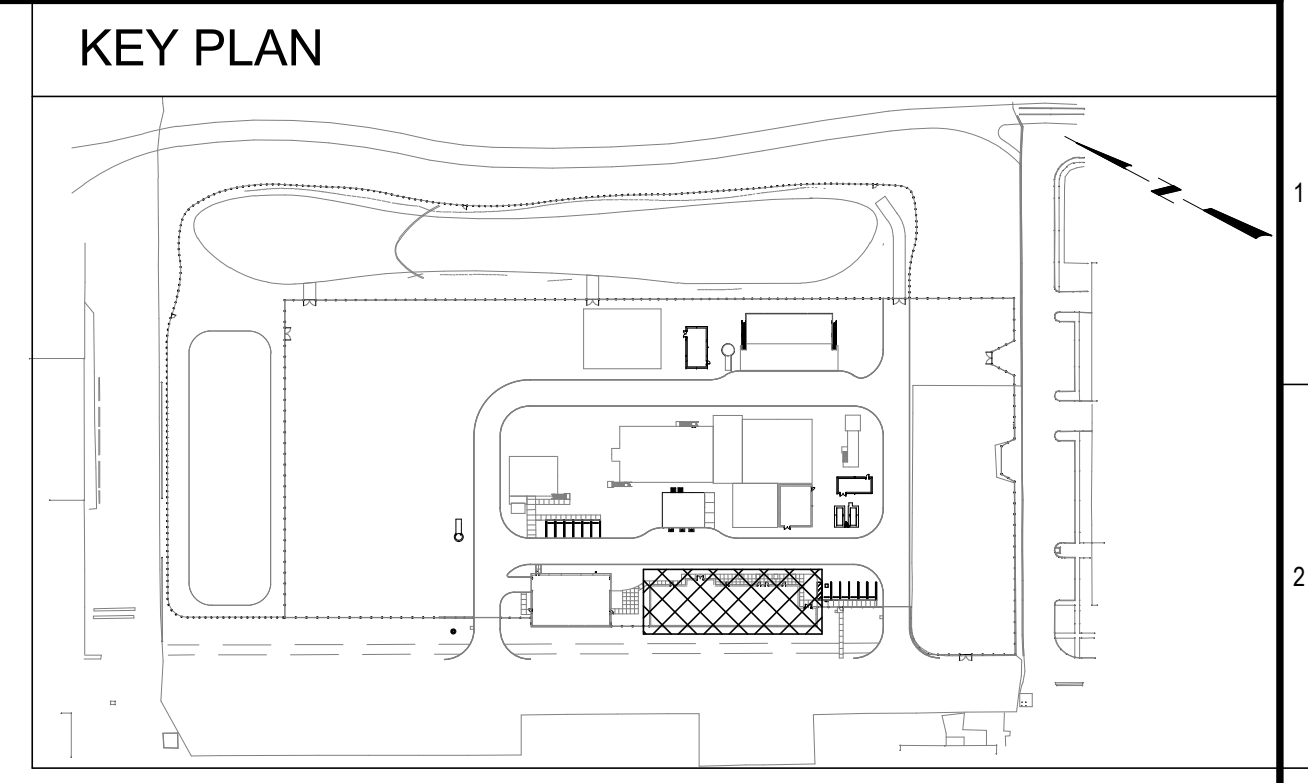
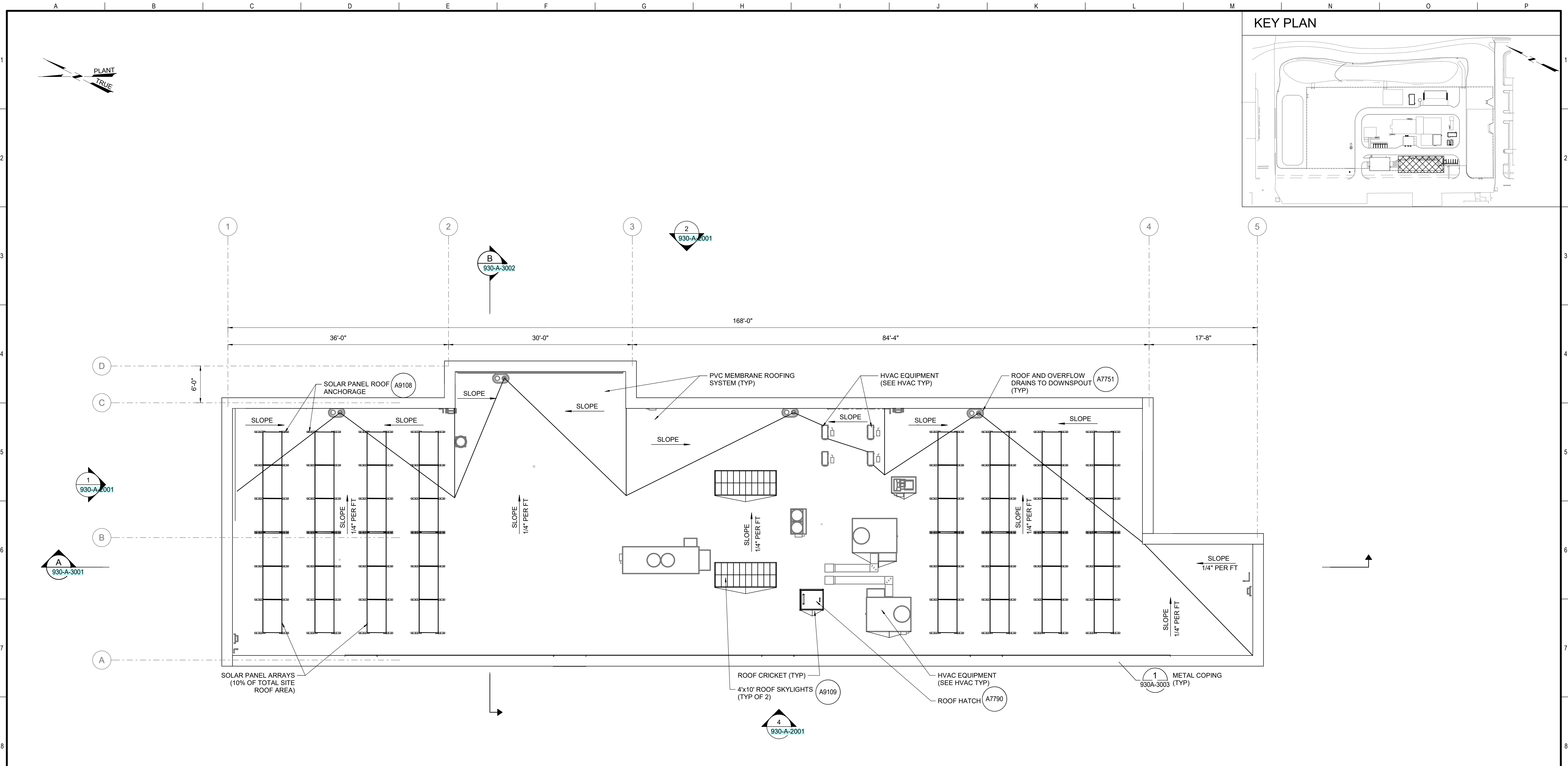
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REVISIONS				

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<b>930-A-1002</b>	
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**ROOF PLAN**  
1/8" = 1'-0"

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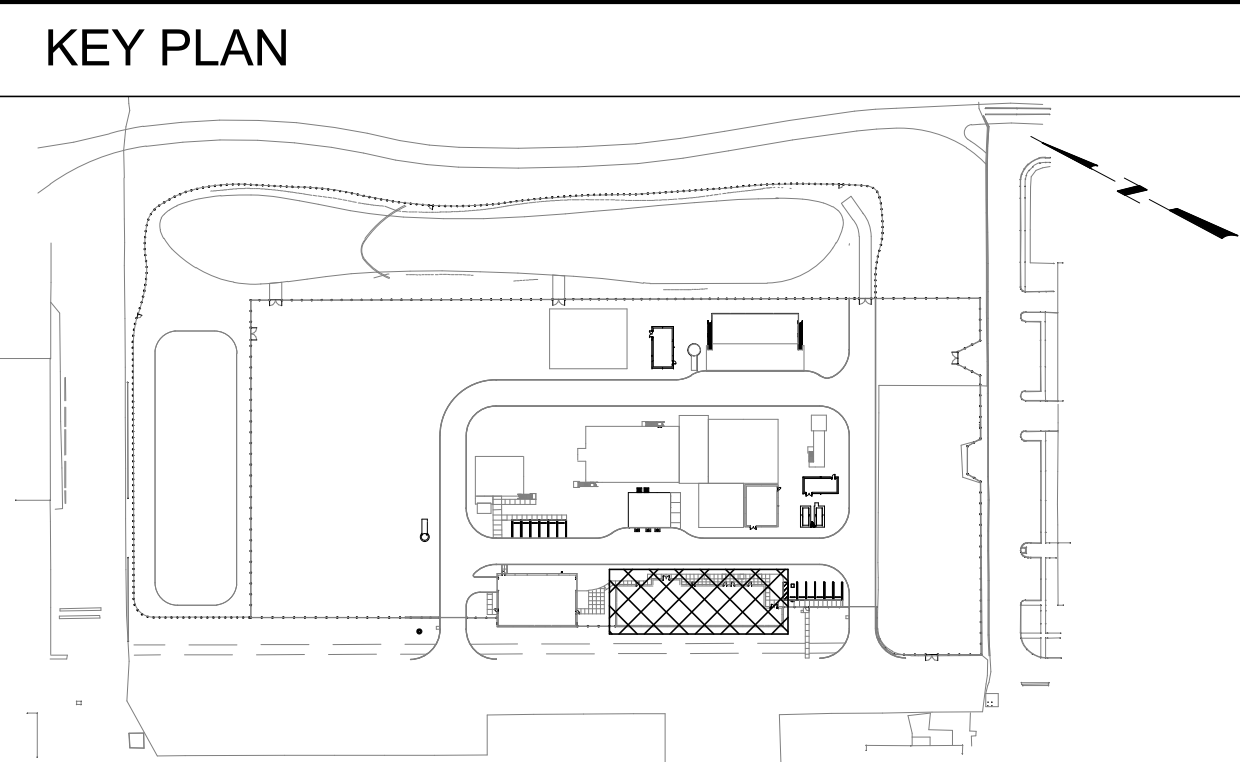
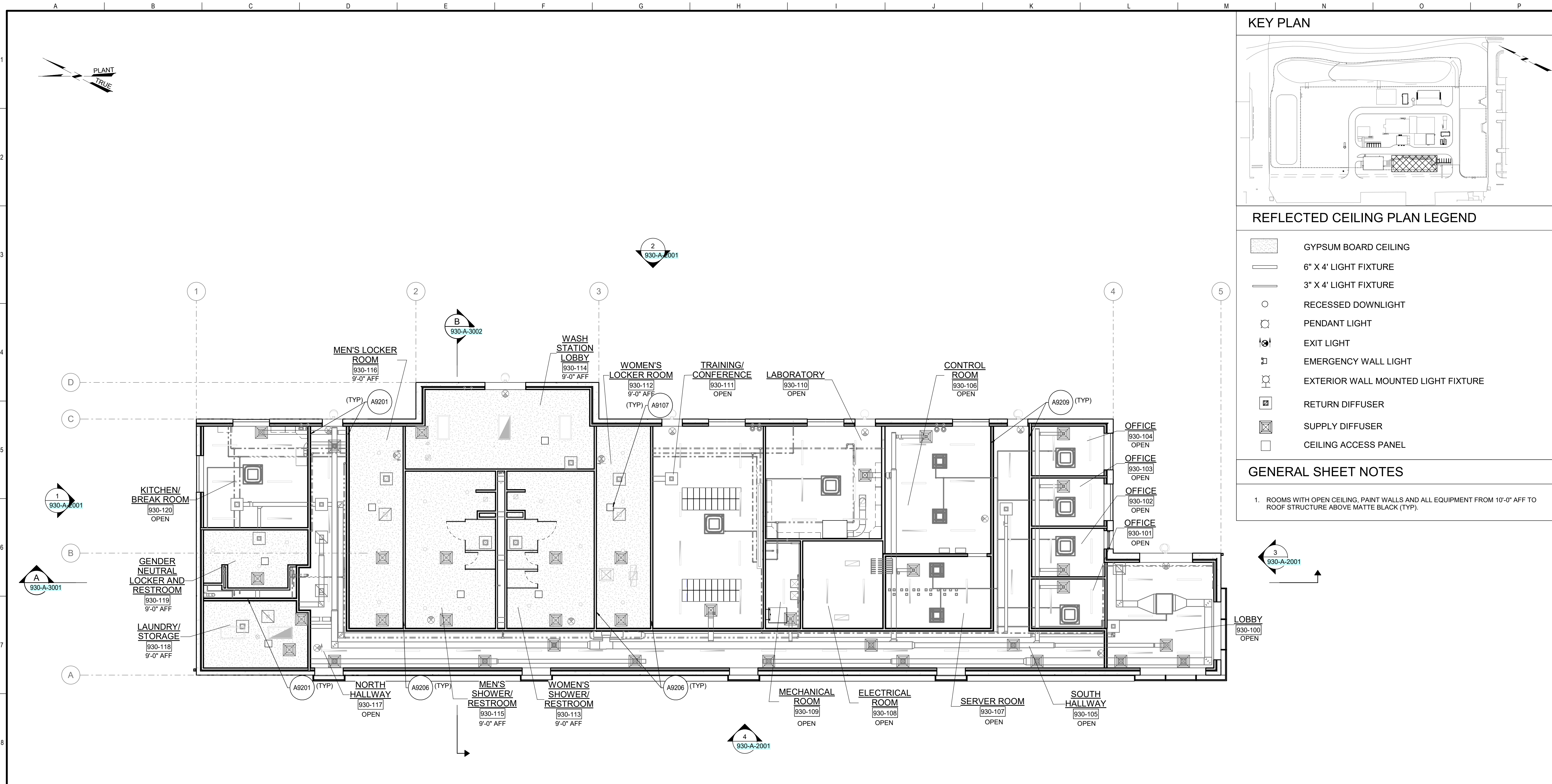
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DATUM  
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PROJECT MANAGER	T BROWN	DESIGNED	E NAVARRO
APPROVED		CHECKED	
NO.	DATE	DESCRIPTION	BY
REVISIONS			

<b>CONTRACT NO. DB-132</b>			
CITY AND COUNTY OF SAN FRANCISCO			
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TIF 930 ADMINISTRATION BUILDING			
<b>ROOF PLAN</b>			
CHECKED / APPROVED	DRAWN		
SECTION MANAGER	DESIGNED		
WWE OPERATIONS MANAGER	SCALE	DATE	
	AS SHOWN	05/08/2024	
APPROVED	APPROVED		
MANAGER, ENGINEERING MANAGEMENT BUREAU	WWE ENGINEERING MANAGER		
PLAN NO.	DRAWING / FILE NO.	REVISION NO.	
<b>930-A-1003</b>		<b>0</b>	





- ### REFLECTED CEILING PLAN LEGEND
- GYPSUM BOARD CEILING
  - 6" X 4" LIGHT FIXTURE
  - 3" X 4" LIGHT FIXTURE
  - RECESSED DOWNLIGHT
  - PENDANT LIGHT
  - EXIT LIGHT
  - EMERGENCY WALL LIGHT
  - EXTERIOR WALL MOUNTED LIGHT FIXTURE
  - RETURN DIFFUSER
  - SUPPLY DIFFUSER
  - CEILING ACCESS PANEL

### GENERAL SHEET NOTES

1. ROOMS WITH OPEN CEILING, PAINT WALLS AND ALL EQUIPMENT FROM 10'-0" AFF TO ROOF STRUCTURE ABOVE MATTE BLACK (TYP).

**REFLECTED CEILING PLAN**  
1/8" = 1'-0"

**CIVIC DESIGN REVIEW**

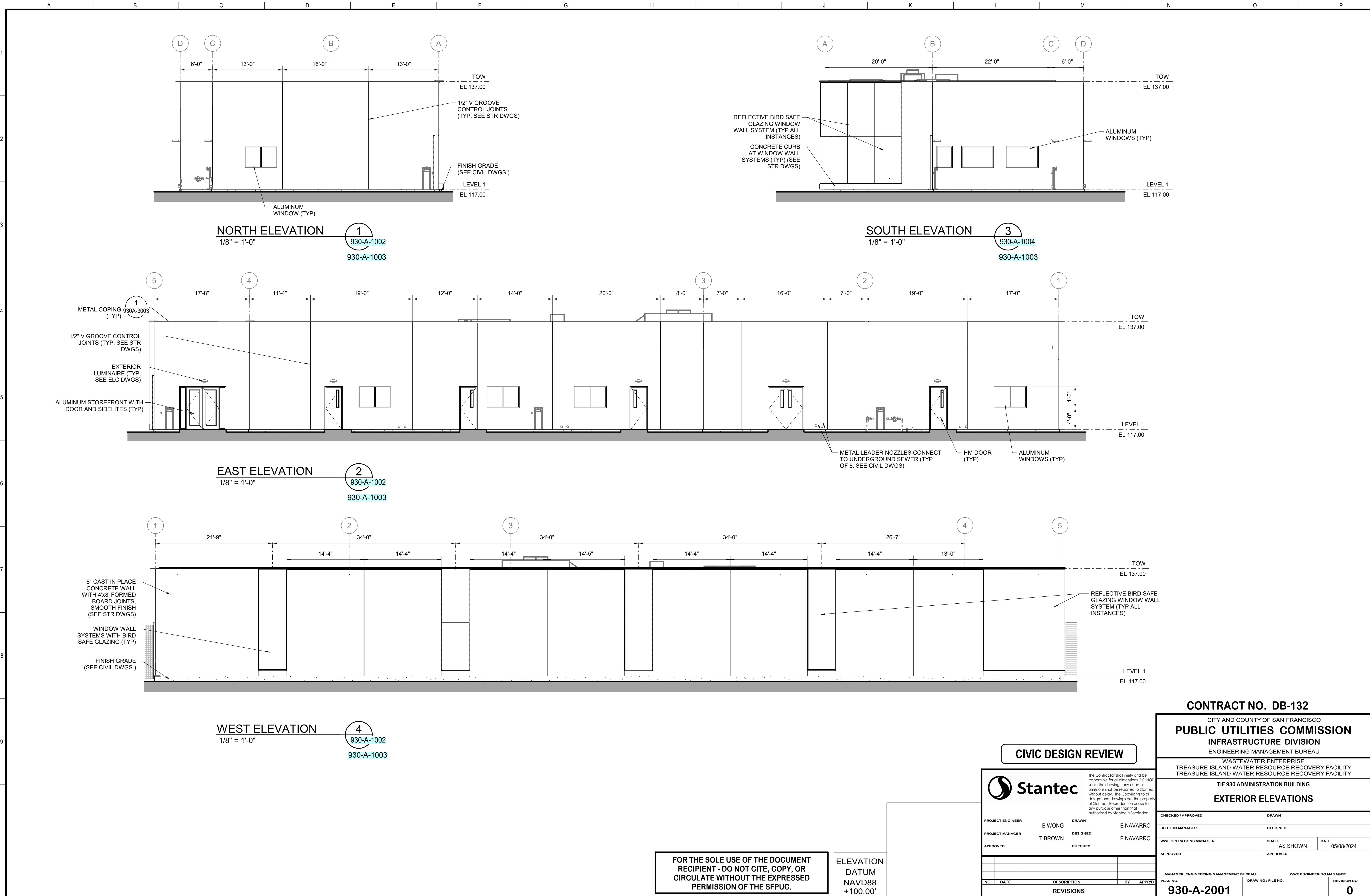
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PROJECT MANAGER	T BROWN	DESIGNED	E NAVARRO
APPROVED		CHECKED	
NO.	DATE	DESCRIPTION	BY
REVISIONS			

<b>CONTRACT NO. DB-132</b>			
CITY AND COUNTY OF SAN FRANCISCO			
<b>PUBLIC UTILITIES COMMISSION</b>			
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TIF 930 ADMINISTRATION BUILDING			
<b>REFLECTED CEILING PLAN</b>			
CHECKED / APPROVED	DRAWN		
SECTION MANAGER	DESIGNED		
WWE OPERATIONS MANAGER	SCALE	DATE	
	AS SHOWN	05/08/2024	
APPROVED	APPROVED		
MANAGER, ENGINEERING MANAGEMENT BUREAU	WWE ENGINEERING MANAGER		
PLAN NO.	DRAWING / FILE NO.	REVISION NO.	
<b>930-A-1004</b>		<b>0</b>	

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ELEVATION DATUM  
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**NORTH ELEVATION** 1  
 1/8" = 1'-0"  
 930-A-1002  
 930-A-1003

**SOUTH ELEVATION** 3  
 1/8" = 1'-0"  
 930-A-1004  
 930-A-1003

**EAST ELEVATION** 2  
 1/8" = 1'-0"  
 930-A-1002  
 930-A-1003

**WEST ELEVATION** 4  
 1/8" = 1'-0"  
 930-A-1002  
 930-A-1003

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**TIF 930 ADMINISTRATION BUILDING**  
**EXTERIOR ELEVATIONS**

<b>CIVIC DESIGN REVIEW</b>			
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PROJECT MANAGER	T BROWN	DESIGNED	E NAVARRO
APPROVED		CHECKED	
NO.	DATE	DESCRIPTION	BY APPR
REVISIONS			

CHECKED / APPROVED	DRAWN
SECTION MANAGER	DESIGNED
WWE OPERATIONS MANAGER	SCALE AS SHOWN DATE 05/08/2024
APPROVED	APPROVED
MANAGER, ENGINEERING MANAGEMENT BUREAU	WWE ENGINEERING MANAGER
PLAN NO. <b>930-A-2001</b>	DRAWING / FILE NO. <b>0</b>

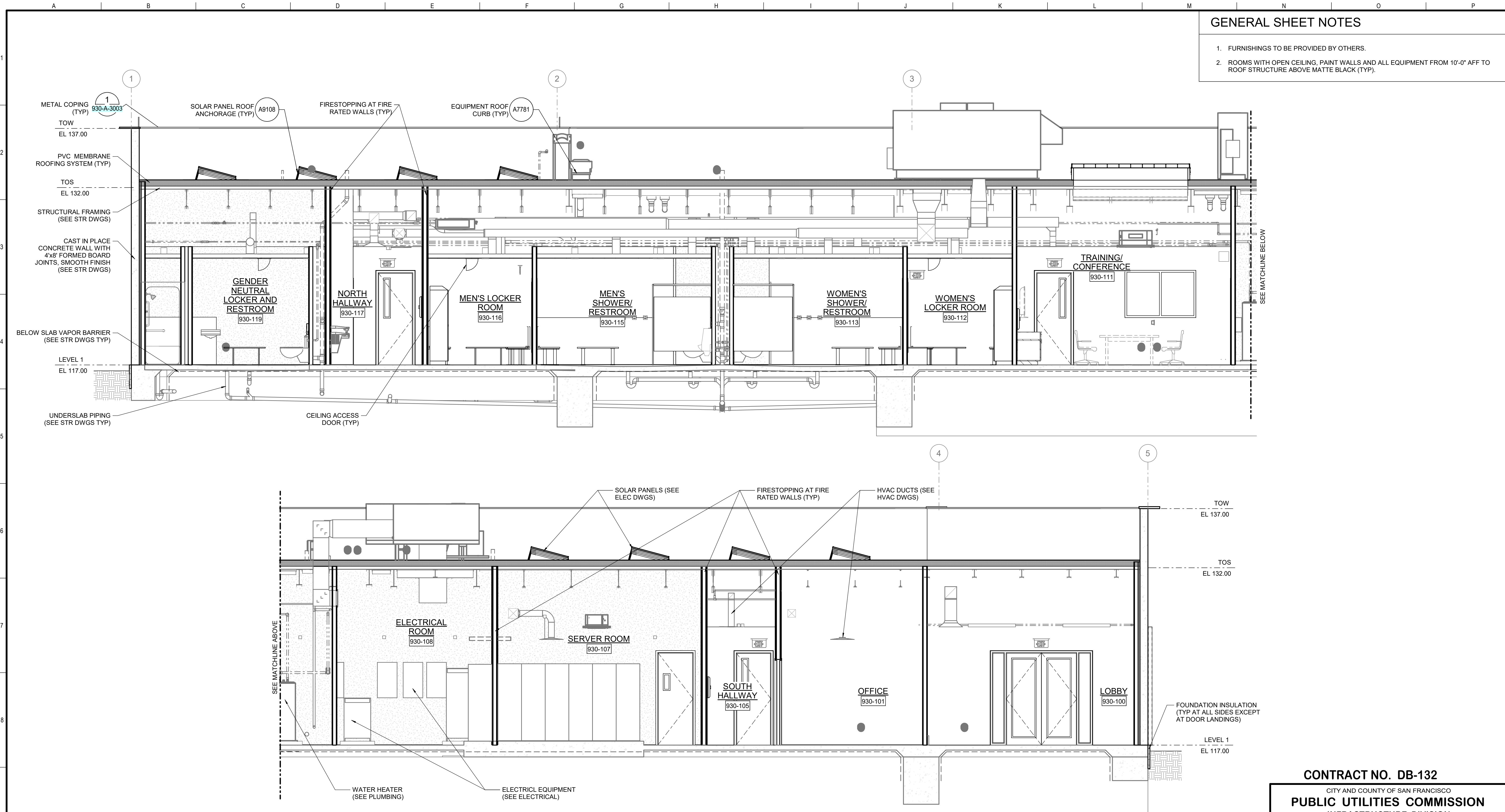
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ELEVATION DATUM  
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 +100.00'



**GENERAL SHEET NOTES**

1. FURNISHINGS TO BE PROVIDED BY OTHERS.
2. ROOMS WITH OPEN CEILING, PAINT WALLS AND ALL EQUIPMENT FROM 10'-0" AFF TO ROOF STRUCTURE ABOVE MATTE BLACK (TYP).



**SECTION A**  
 930-A-1002  
 930-A-1003  
 1/4" = 1'-0"

**CIVIC DESIGN REVIEW**

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PROJECT ENGINEER	B WONG	DRAWN	E NAVARRO
PROJECT MANAGER	T BROWN	DESIGNED	E NAVARRO
APPROVED		CHECKED	
NO.	DATE	DESCRIPTION	BY
REVISIONS			

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ELEVATION DATUM  
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 +100.00'

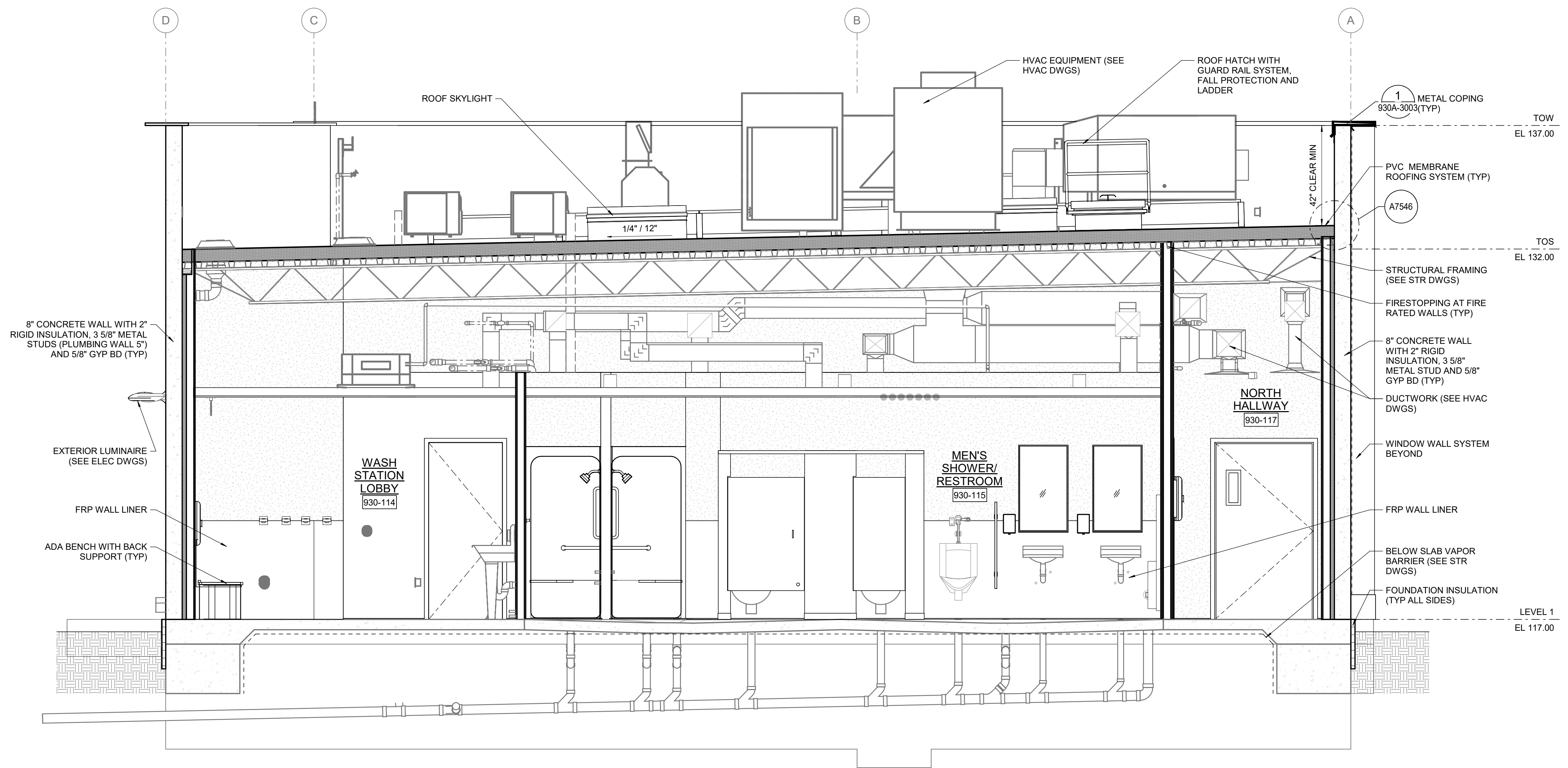
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**TIF 930 ADMINISTRATION BUILDING**  
**BUILDING SECTION 1 OF 2**

CHECKED / APPROVED	DRAWN
SECTION MANAGER	DESIGNED
WWE OPERATIONS MANAGER	SCALE AS SHOWN
DATE	05/08/2024
APPROVED	APPROVED
MANAGER, ENGINEERING MANAGEMENT BUREAU	WWE ENGINEERING MANAGER
PLAN NO. <b>930-A-3001</b>	DRAWING / FILE NO.
REVISION NO.	<b>0</b>



**GENERAL SHEET NOTES**

- FURNISHINGS TO BE PROVIDED BY OTHERS.
- ROOMS WITH OPEN CEILING, PAINT WALLS AND ALL EQUIPMENT FROM 10'-0" AFF TO ROOF STRUCTURE ABOVE MATTE BLACK (TYP).



**SECTION**  
3/8" = 1'-0"  
**B**  
930-A-1002  
930-A-1003

**CIVIC DESIGN REVIEW**

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PROJECT ENGINEER	B WONG	DRAWN	E NAVARRO
PROJECT MANAGER	T BROWN	DESIGNED	E NAVARRO
APPROVED		CHECKED	
NO.	DATE	DESCRIPTION	BY
REVISIONS			

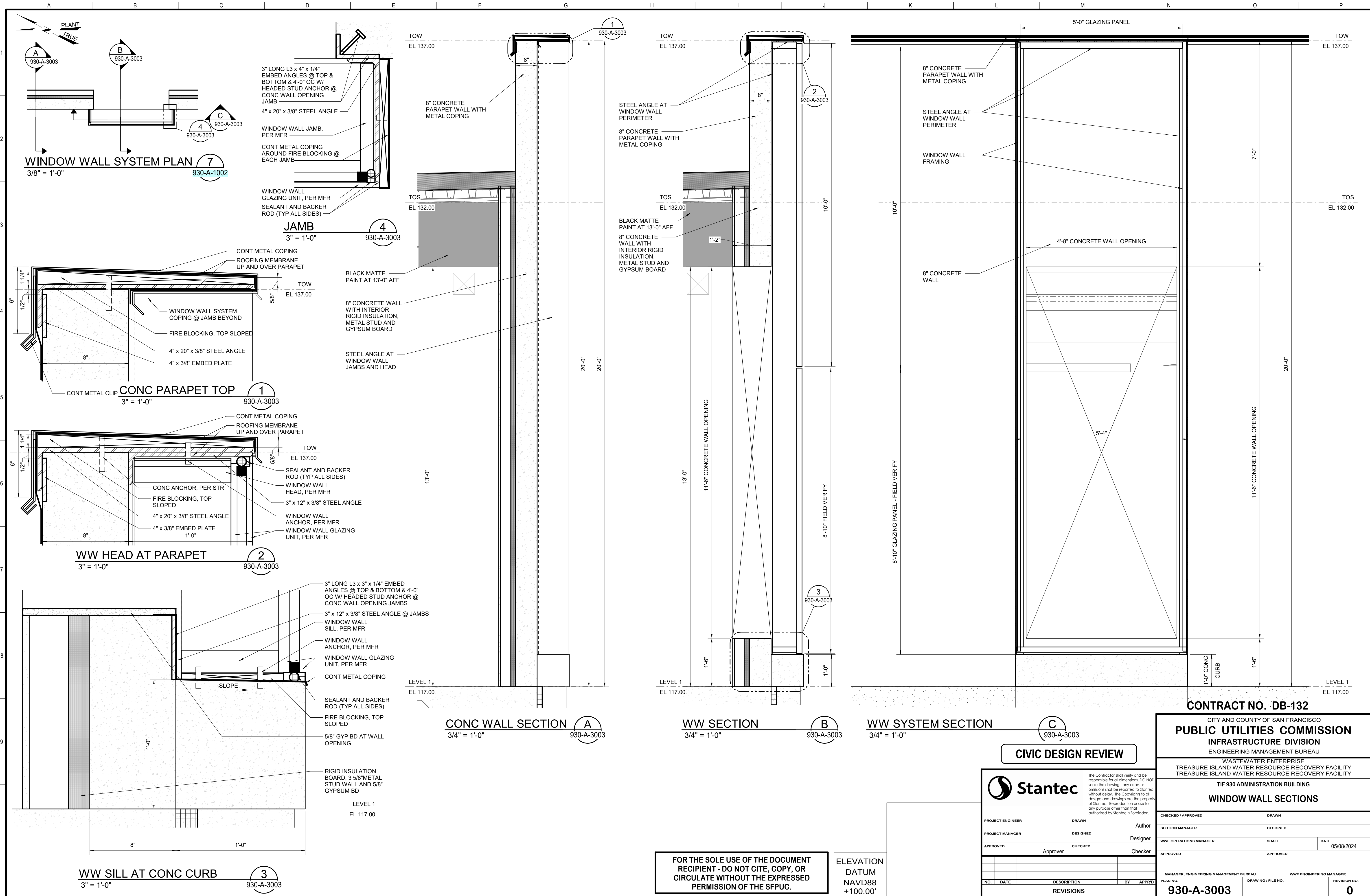
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ELEVATION DATUM  
NAVD88  
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**PUBLIC UTILITIES COMMISSION**  
INFRASTRUCTURE DIVISION  
ENGINEERING MANAGEMENT BUREAU  
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TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY  
TIF 930 ADMINISTRATION BUILDING  
**BUILDING SECTION 2 OF 2**

CHECKED / APPROVED	DRAWN
SECTION MANAGER	DESIGNED
WWE OPERATIONS MANAGER	SCALE AS SHOWN DATE 05/08/2024
APPROVED	APPROVED
MANAGER, ENGINEERING MANAGEMENT BUREAU	WWE ENGINEERING MANAGER
PLAN NO. <b>930-A-3002</b>	DRAWING / FILE NO. <b>0</b>





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ELEVATION DATUM NAVD88 +100.00'

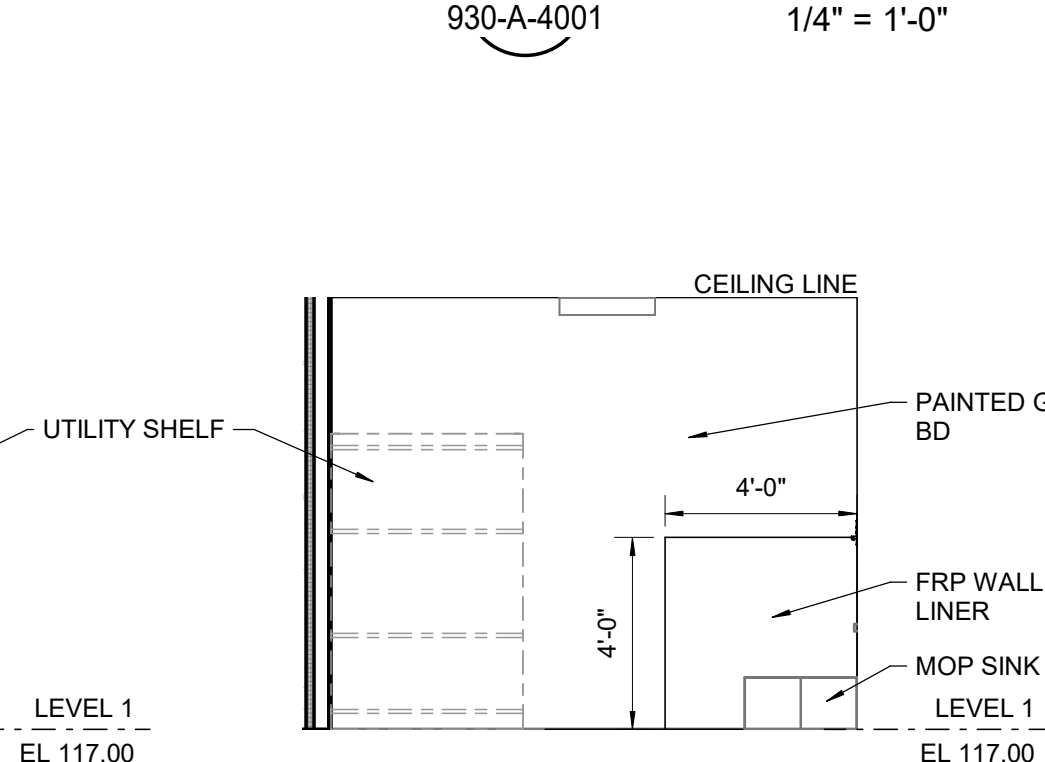
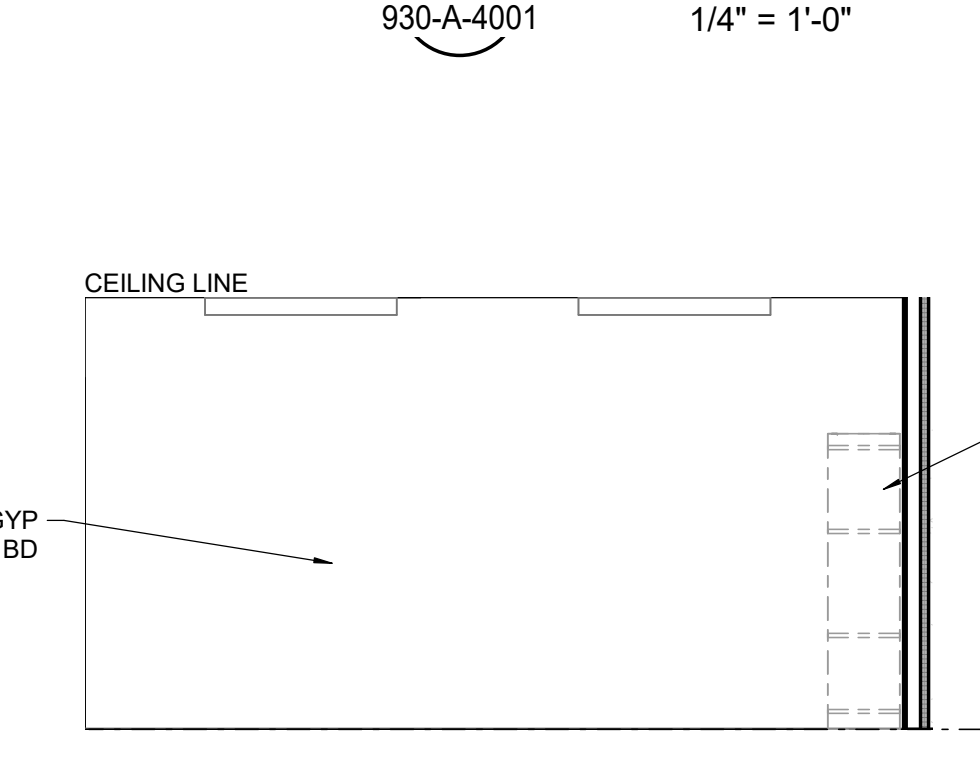
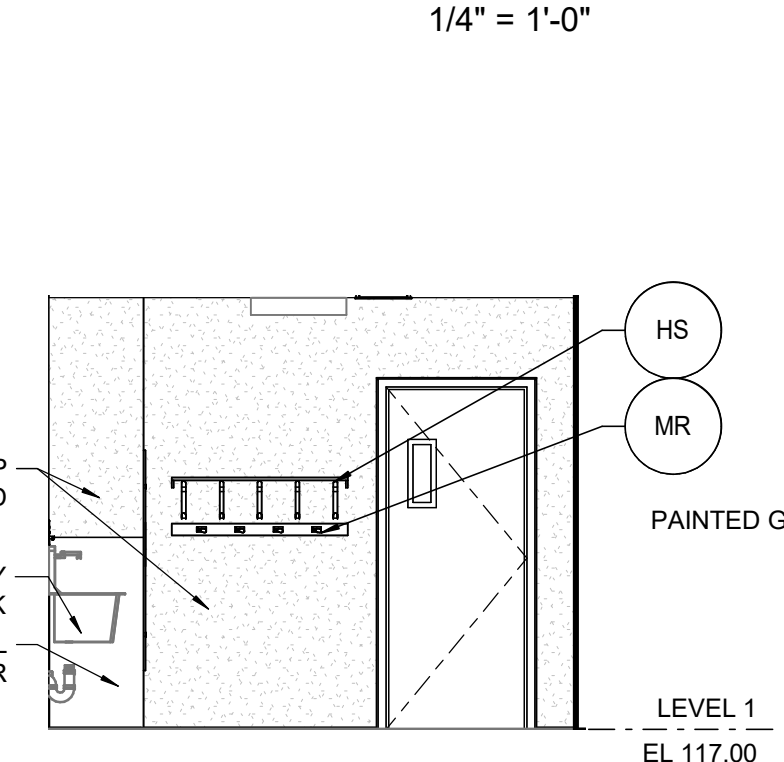
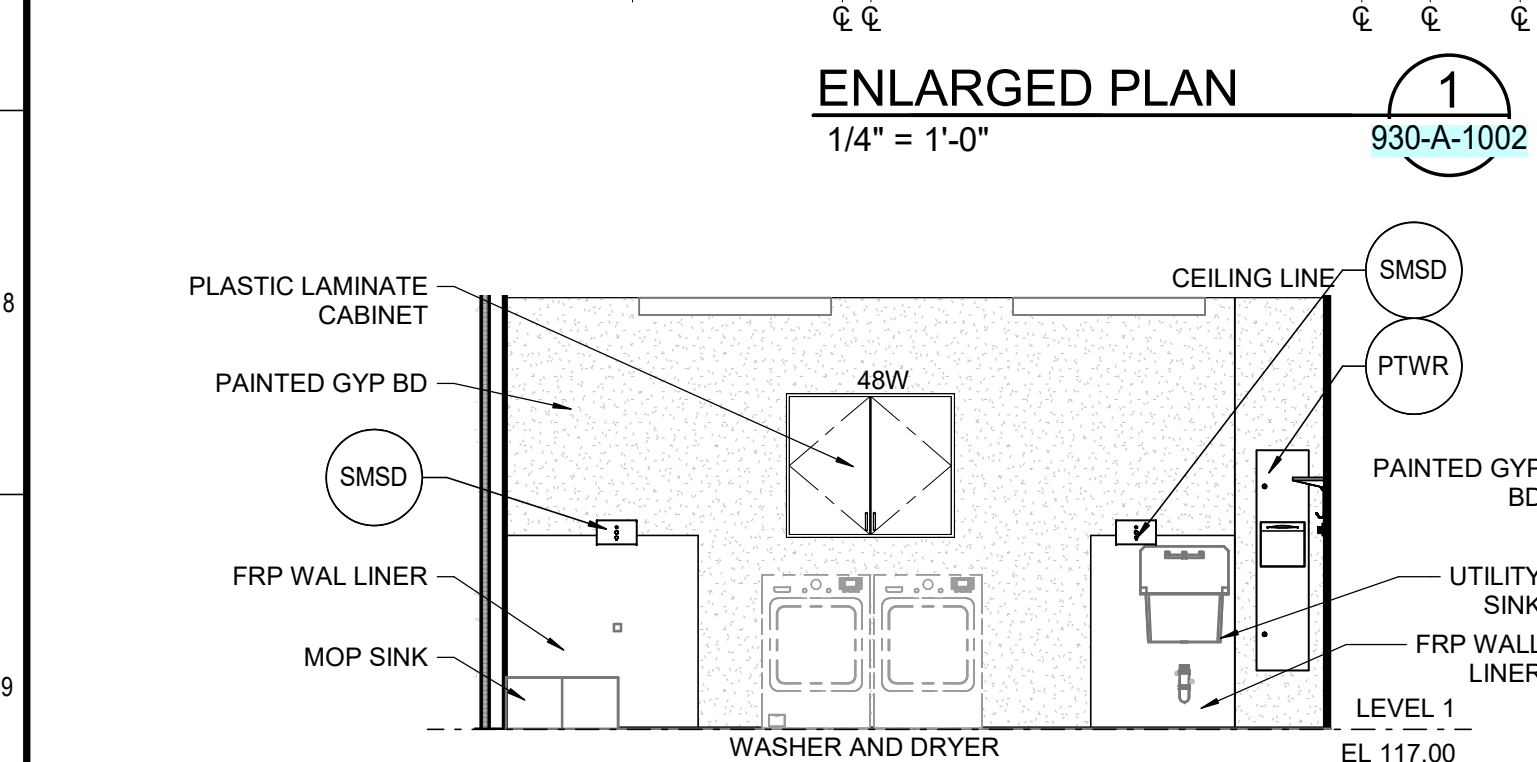
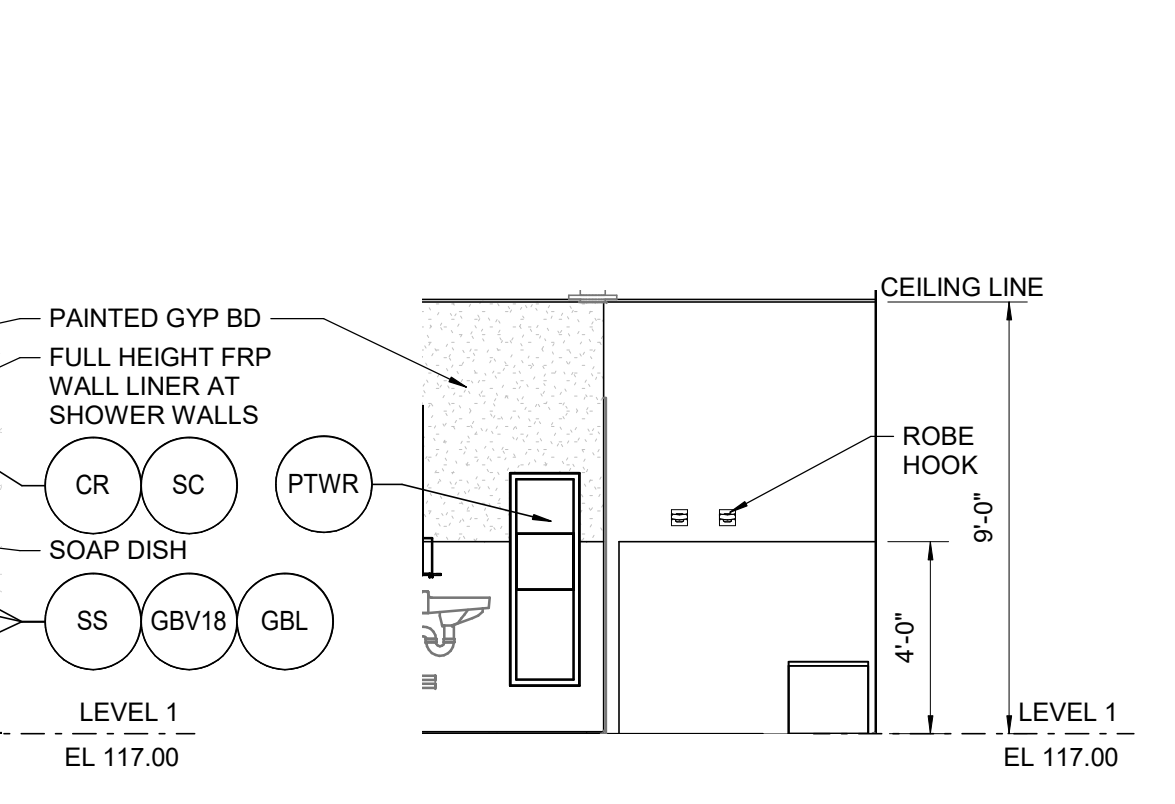
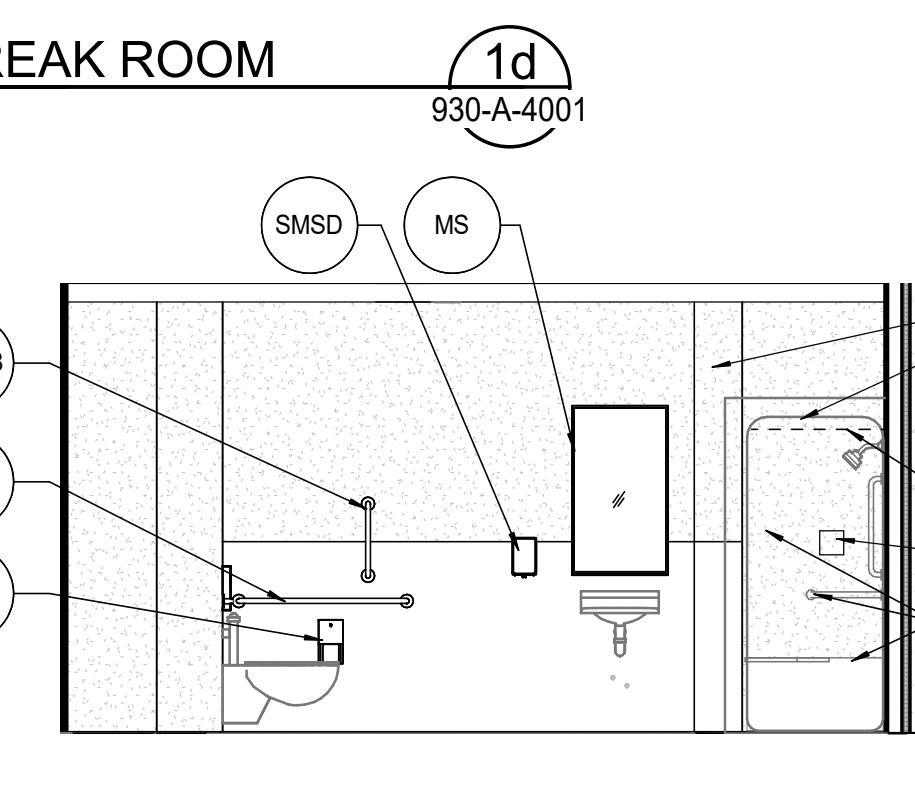
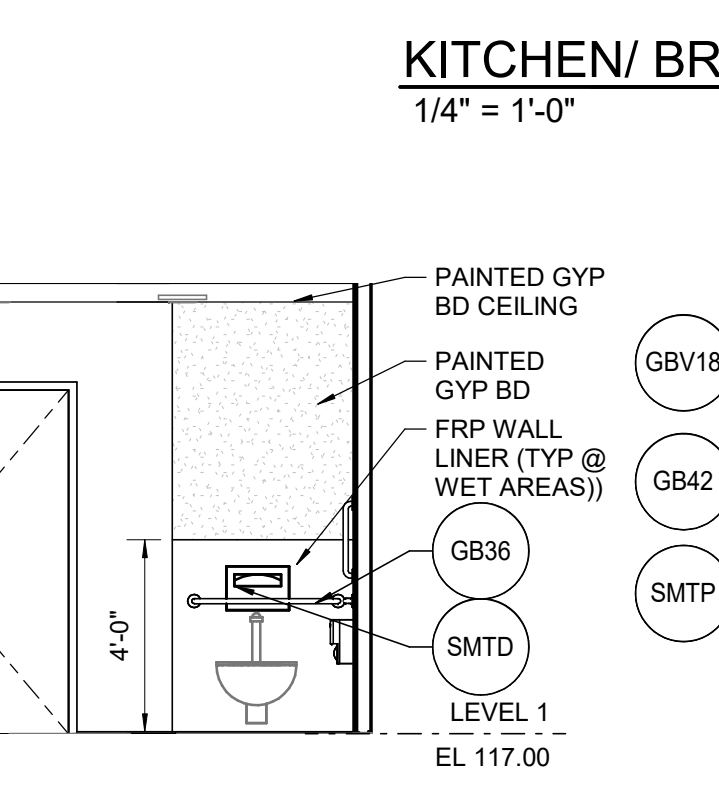
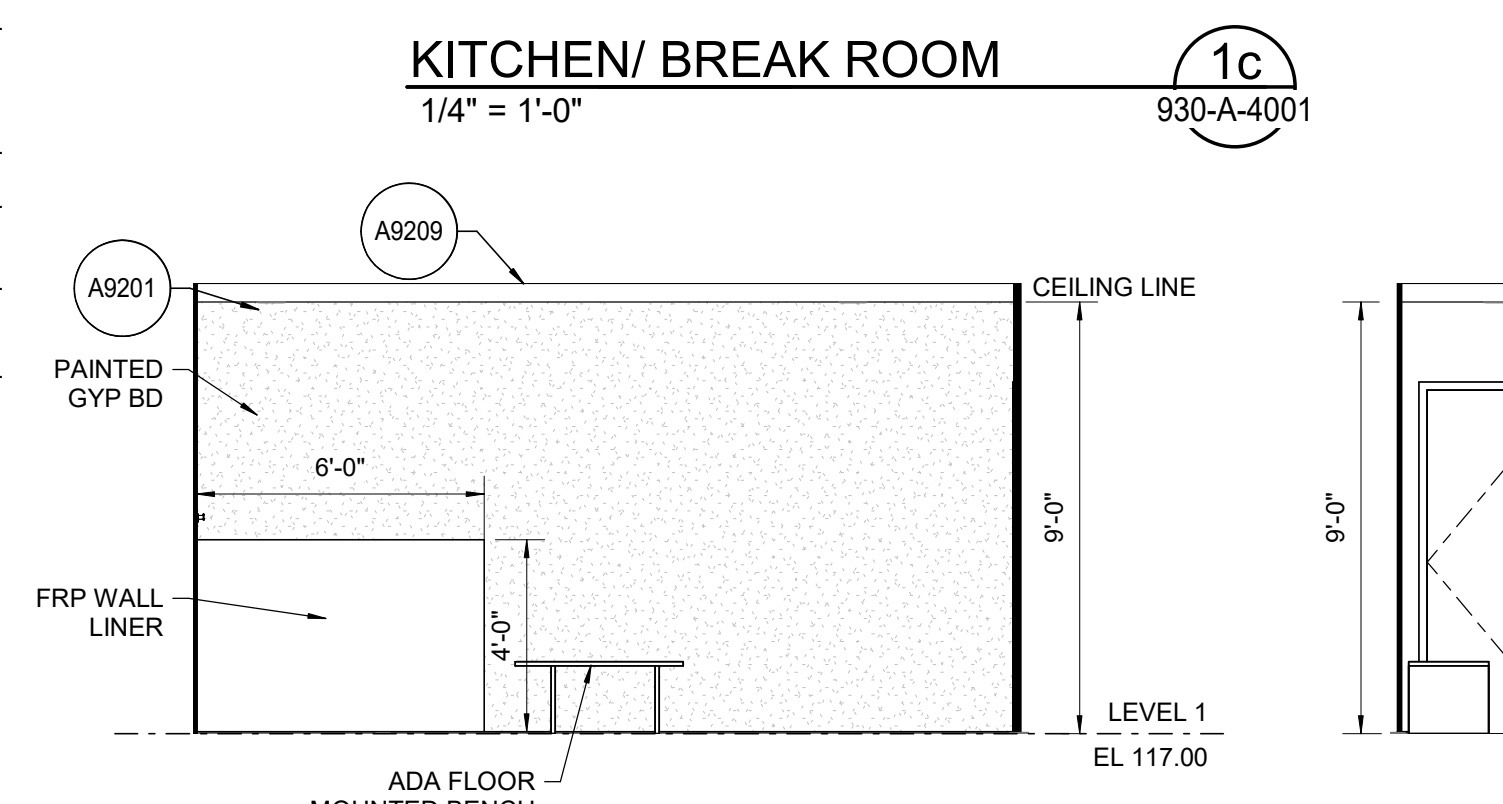
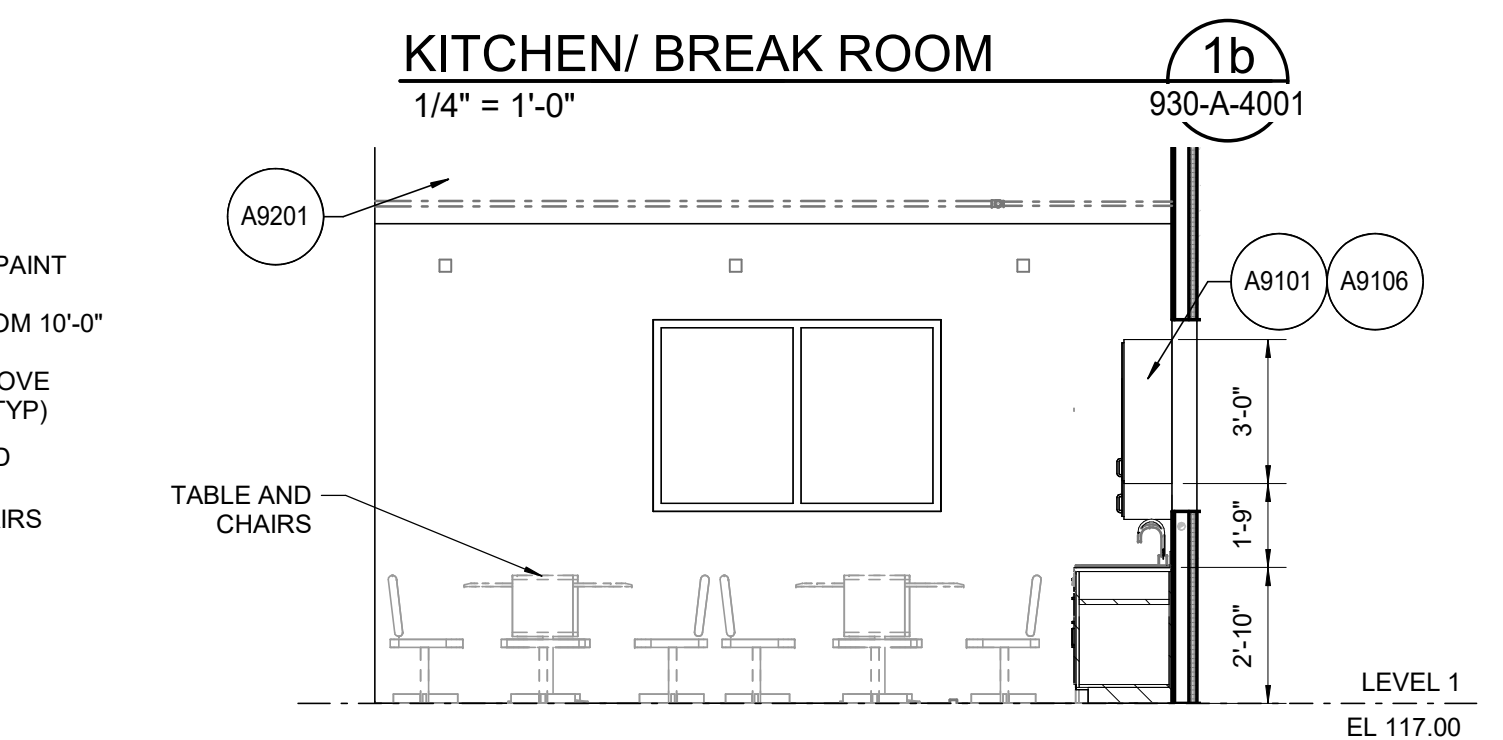
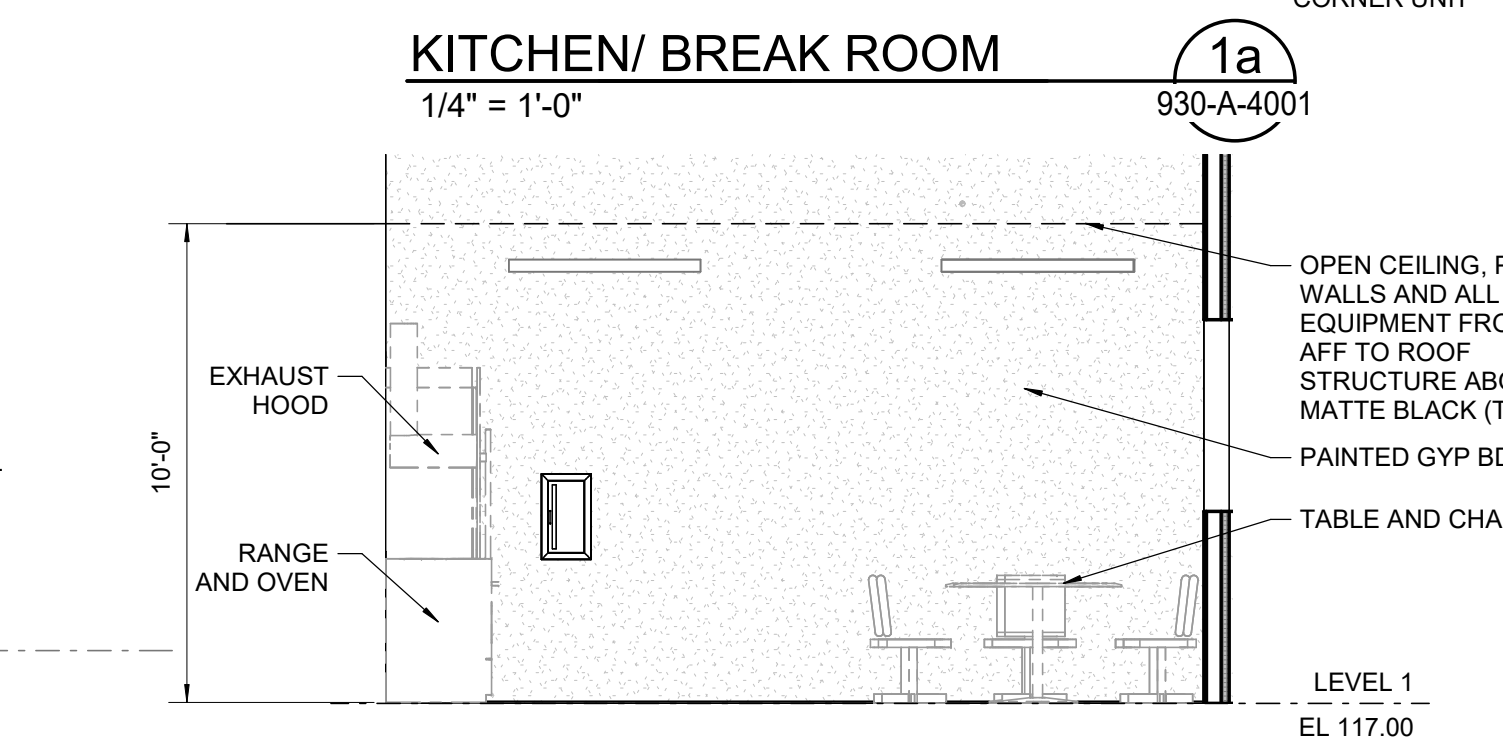
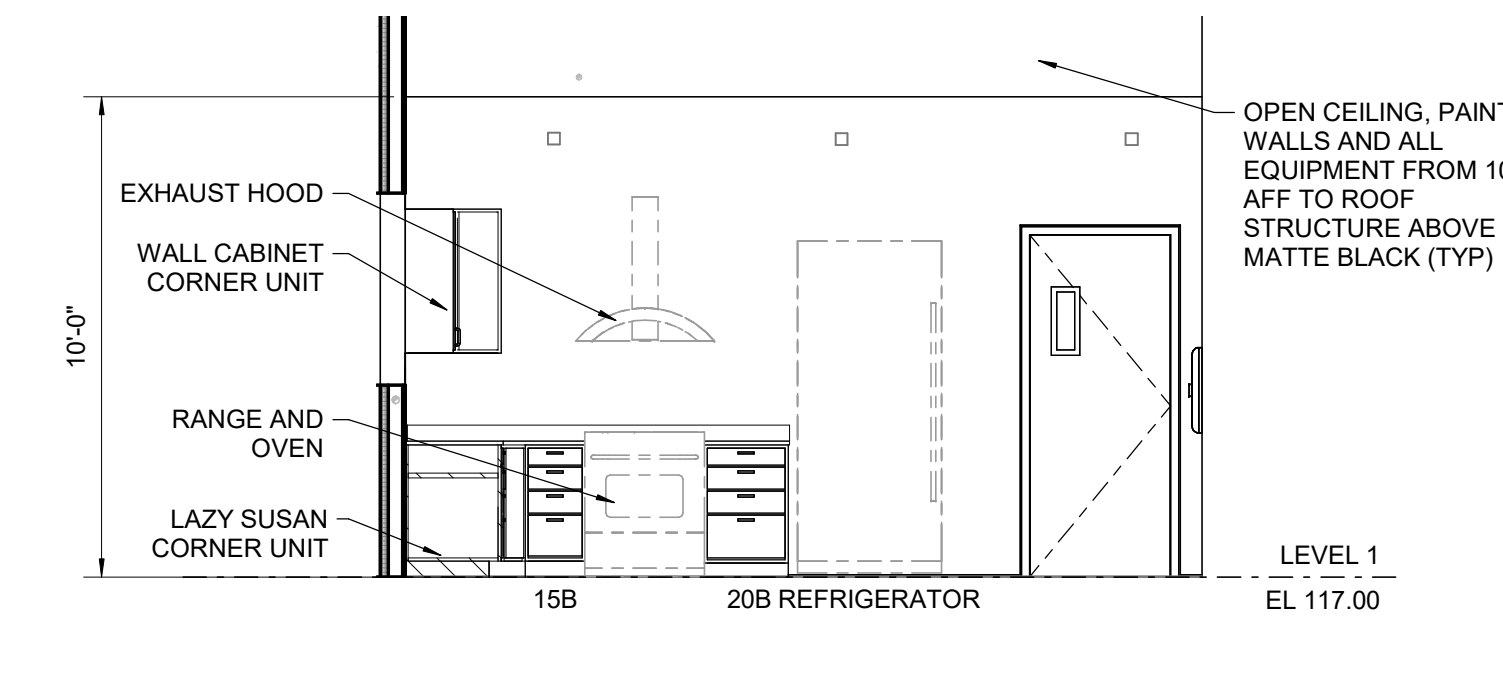
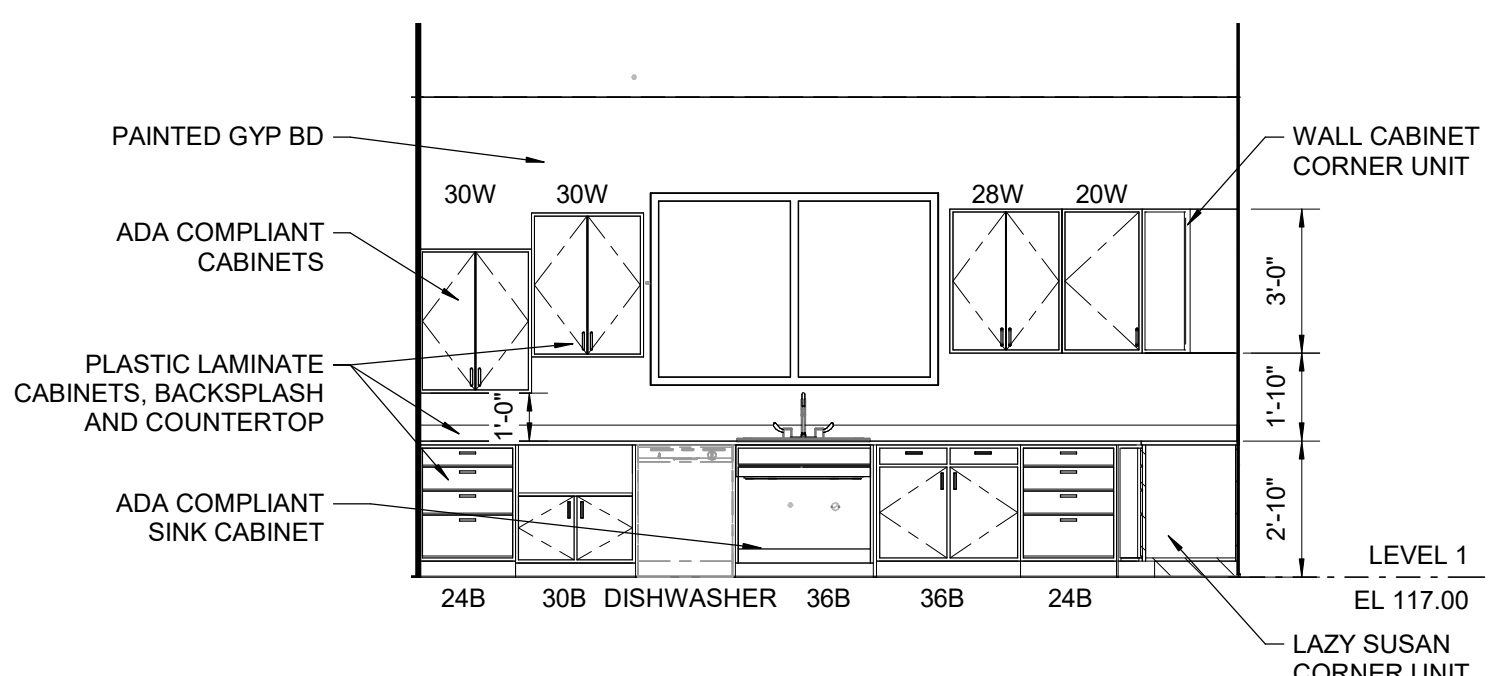
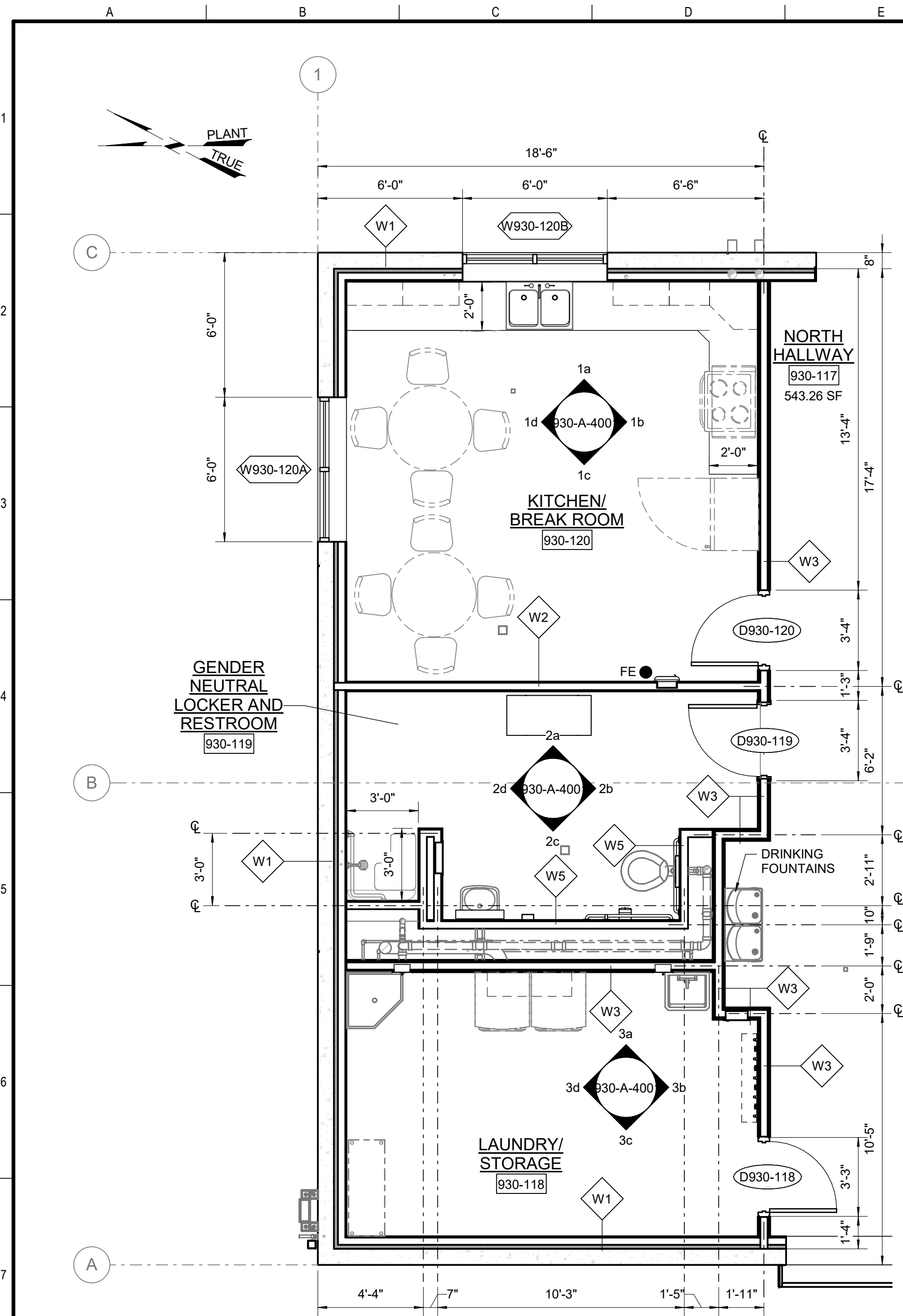
<b>Stantec</b>		The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.	
PROJECT ENGINEER	DRAWN	Author	
PROJECT MANAGER	DESIGNED	Designer	
APPROVED	CHECKED	Approver	Checker
NO.	DATE	DESCRIPTION	BY
REVISIONS			

<b>CONTRACT NO. DB-132</b>	
CITY AND COUNTY OF SAN FRANCISCO	
<b>PUBLIC UTILITIES COMMISSION</b>	
INFRASTRUCTURE DIVISION	
ENGINEERING MANAGEMENT BUREAU	
WASTEWATER ENTERPRISE	
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY	
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY	
TIF 930 ADMINISTRATION BUILDING	
<b>WINDOW WALL SECTIONS</b>	
CHECKED / APPROVED	DRAWN
SECTION MANAGER	DESIGNED
WWE OPERATIONS MANAGER	SCALE
APPROVED	DATE 05/08/2024
MANAGER, ENGINEERING MANAGEMENT BUREAU	WWE ENGINEERING MANAGER
PLAN NO. <b>930-A-3003</b>	DRAWING / FILE NO.
REVISION NO. <b>0</b>	



**GENERAL SHEET NOTES**

- FURNISHINGS TO BE PROVIDED BY OTHERS.
- ROOMS WITH OPEN CEILING, PAINT WALLS AND ALL EQUIPMENT FROM 10'-0" AFF TO ROOF STRUCTURE ABOVE MATTE BLACK (TYP).
- SEE SHEET A-0001 FOR WATER CLOSET, URINAL, LAVATORY, TOILET ACCESSORIES, SHOWERS AND DRINKING FOUNTAIN ADA TYPICAL MOUNTING HEIGHTS AND LOCATIONS.



**CIVIC DESIGN REVIEW**

<b>Stantec</b>		The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.	
PROJECT ENGINEER	B WONG	DRAWN	E NAVARRO
PROJECT MANAGER	T BROWN	DESIGNED	E NAVARRO
APPROVED		CHECKED	
NO.	DATE	DESCRIPTION	BY
REVISIONS			

**CONTRACT NO. DB-132**  
CITY AND COUNTY OF SAN FRANCISCO  
**PUBLIC UTILITIES COMMISSION**  
INFRASTRUCTURE DIVISION  
ENGINEERING MANAGEMENT BUREAU  
WASTEWATER ENTERPRISE  
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY  
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY  
TIF 930 ADMINISTRATION BUILDING  
**ENLARGED PLAN AND INTERIOR ELEVATIONS**  
1 of 6

CHECKED / APPROVED	DRAWN
SECTION MANAGER	DESIGNED
WWE OPERATIONS MANAGER	SCALE AS SHOWN DATE 05/08/2024
APPROVED	APPROVED
MANAGER, ENGINEERING MANAGEMENT BUREAU	WWE ENGINEERING MANAGER
PLAN NO. <b>930-A-4001</b>	DRAWING / FILE NO. <b>0</b>

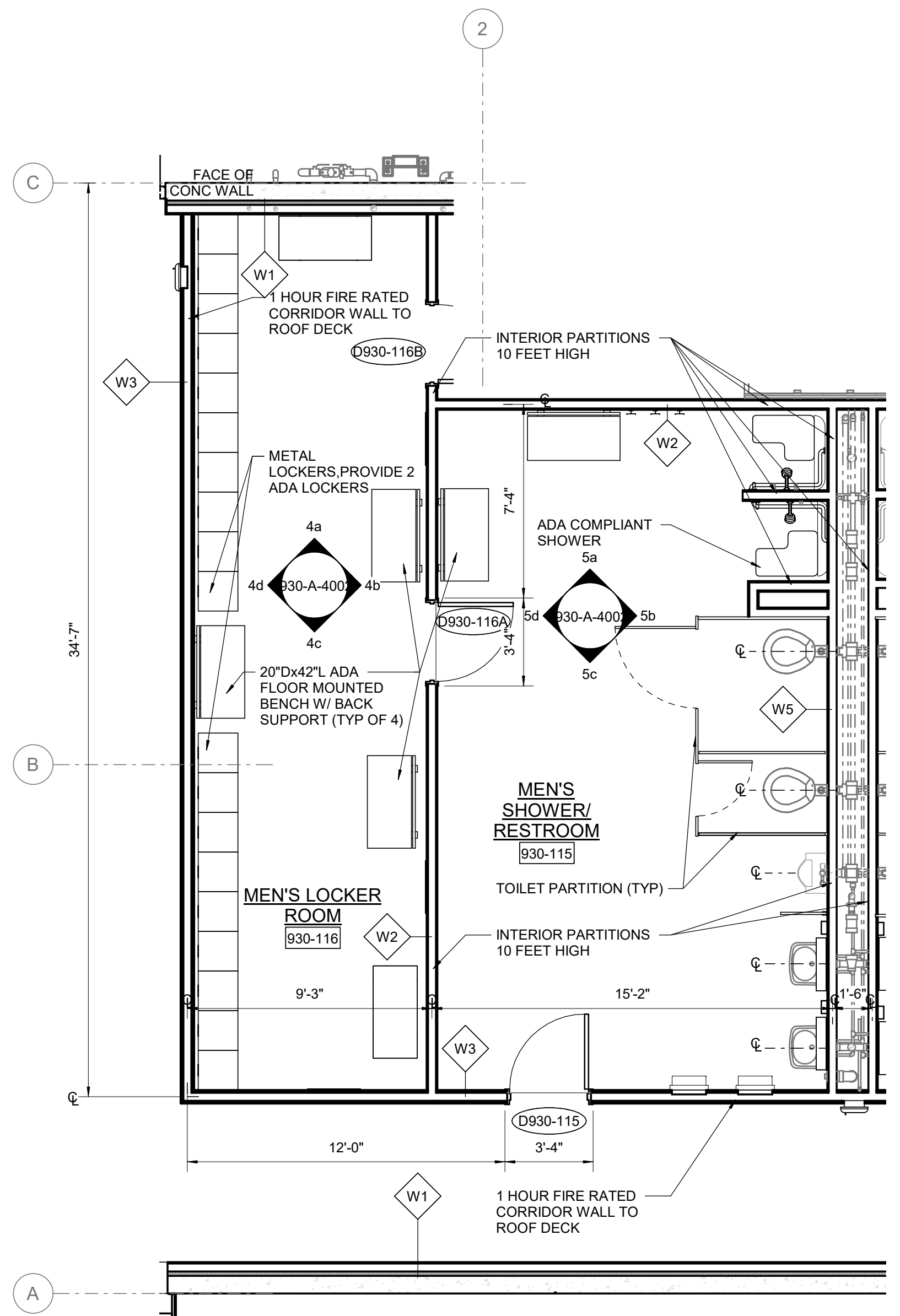
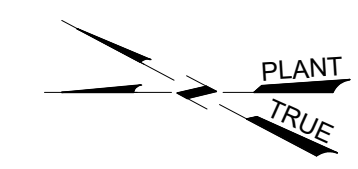
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ELEVATION DATUM  
NAVD88  
+100.00'

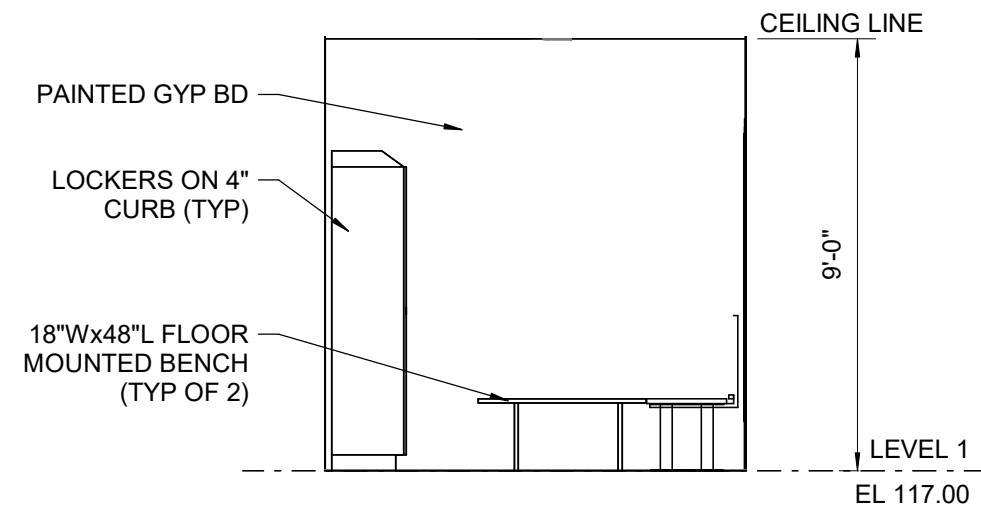


**GENERAL SHEET NOTES**

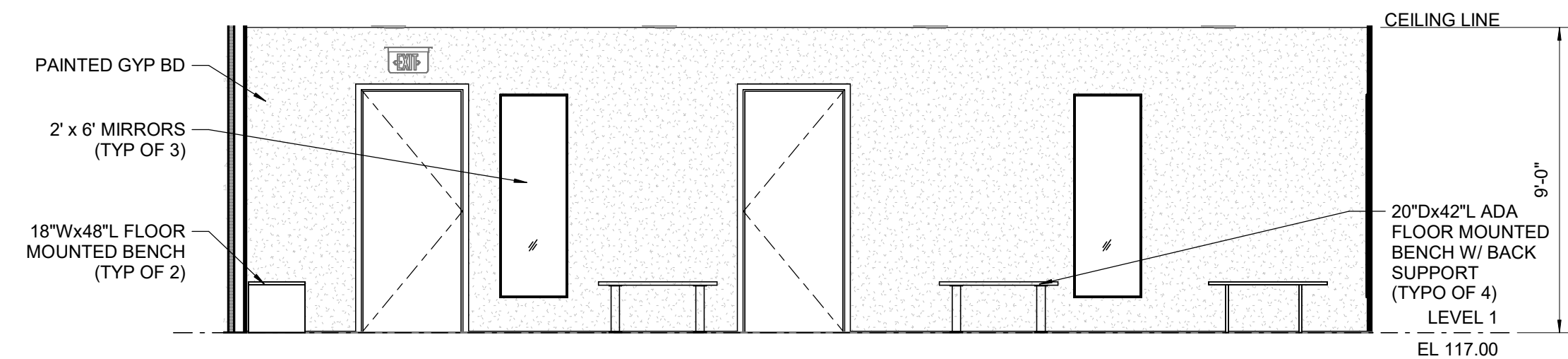
1. FURNISHINGS TO BE PROVIDED BY OTHERS.
2. ROOMS WITH OPEN CEILING, PAINT WALLS AND ALL EQUIPMENT FROM 10'-0" AFF TO ROOF STRUCTURE ABOVE MATTE BLACK (TYP).
3. SEE SHEET A-0001 FOR WATER CLOSET, URINAL, LAVATORY, TOILET ACCESSORIES, SHOWERS AND DRINKING FOUNTAIN ADA TYPICAL MOUNTING HEIGHTS AND LOCATIONS.



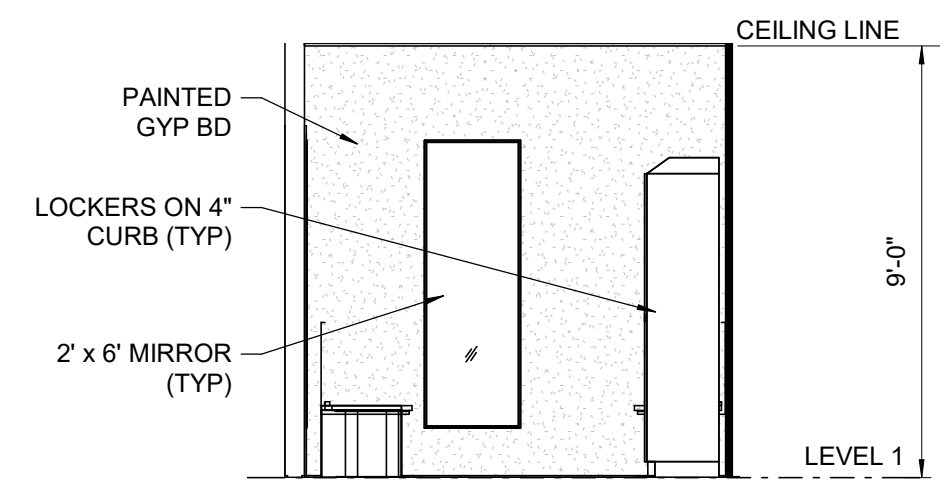
**ENLARGED PLAN**  
1/4" = 1'-0" 2 930-A-1002



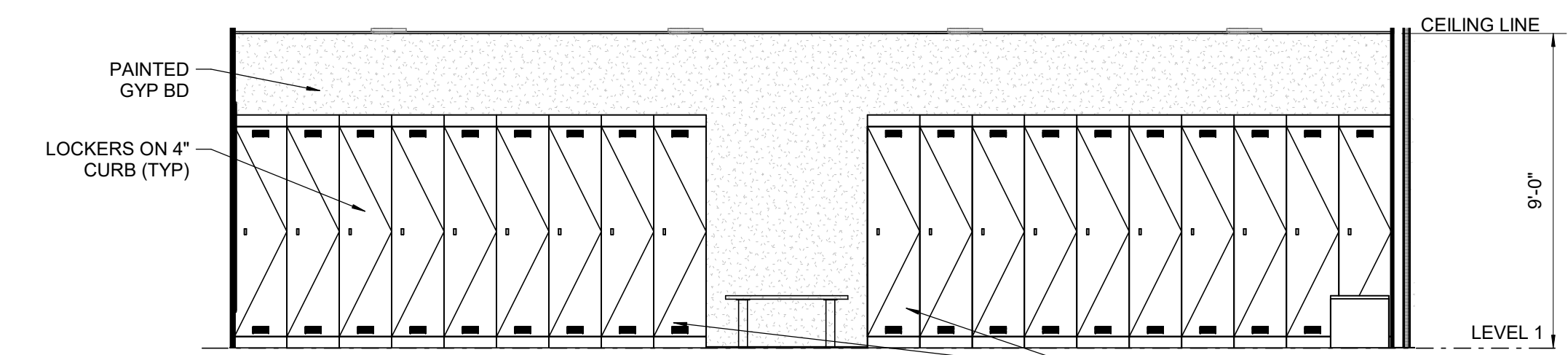
**MEN'S LOCKER ROOM** 4a  
1/4" = 1'-0" 930-A-4002



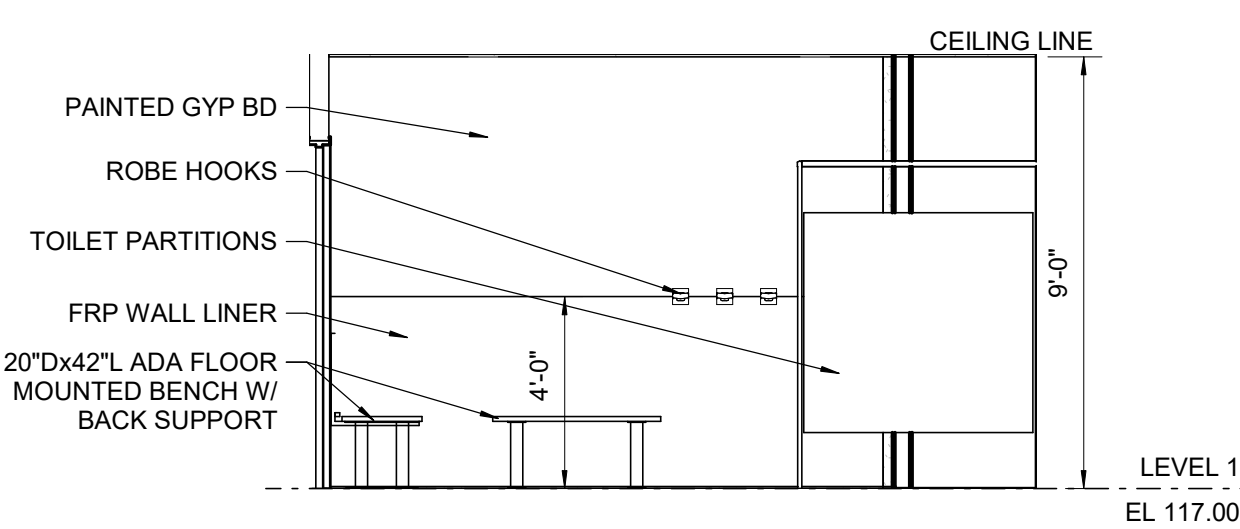
**MEN'S LOCKER ROOM** 4b  
1/4" = 1'-0" 930-A-4002



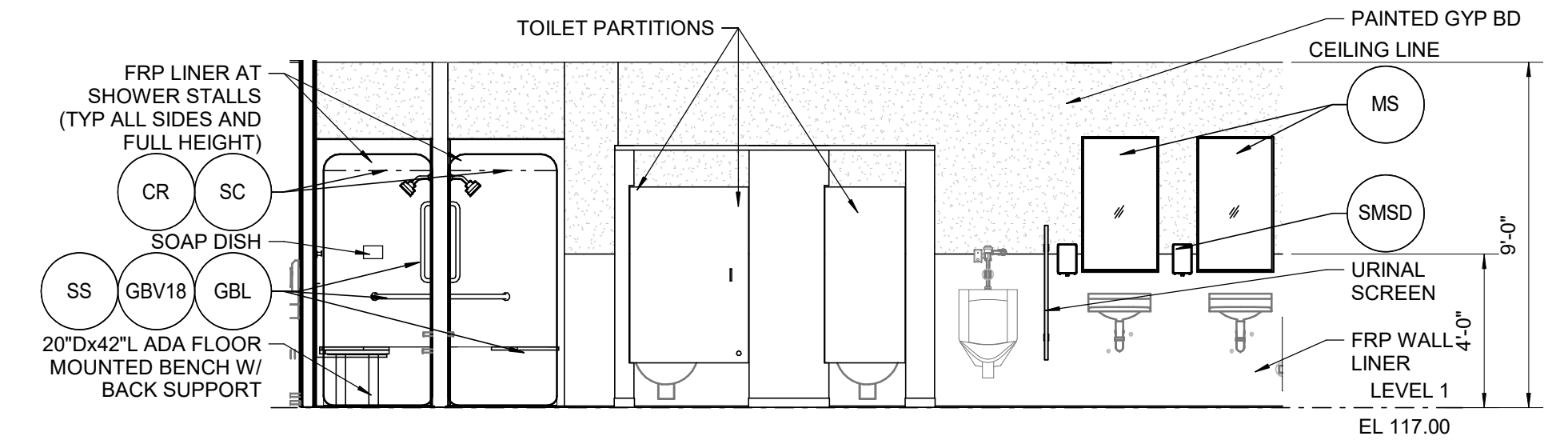
**MEN'S LOCKER ROOM** 4c  
1/4" = 1'-0" 930-A-4002



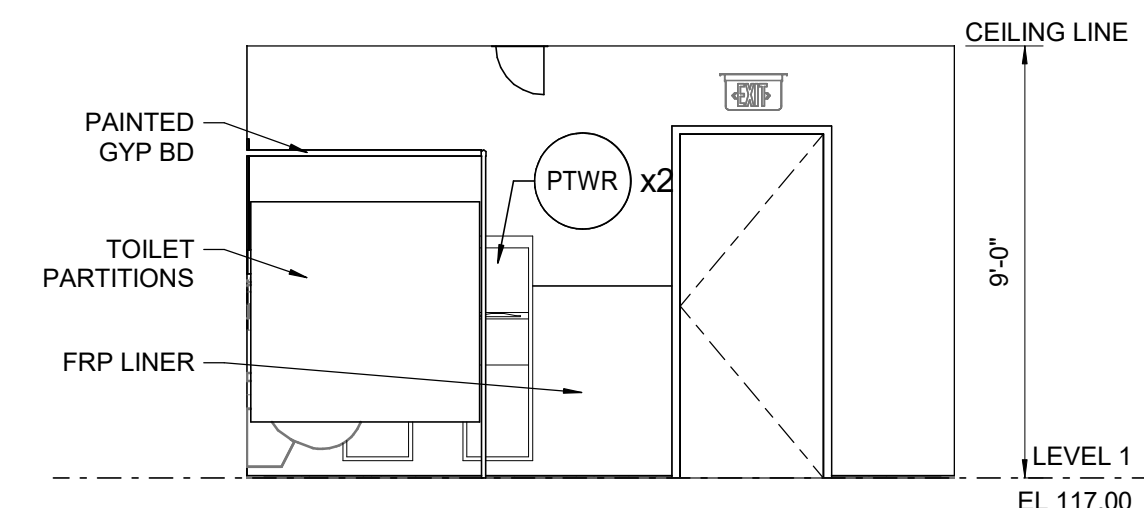
**MEN'S LOCKER ROOM** 4d  
1/4" = 1'-0" 930-A-4002



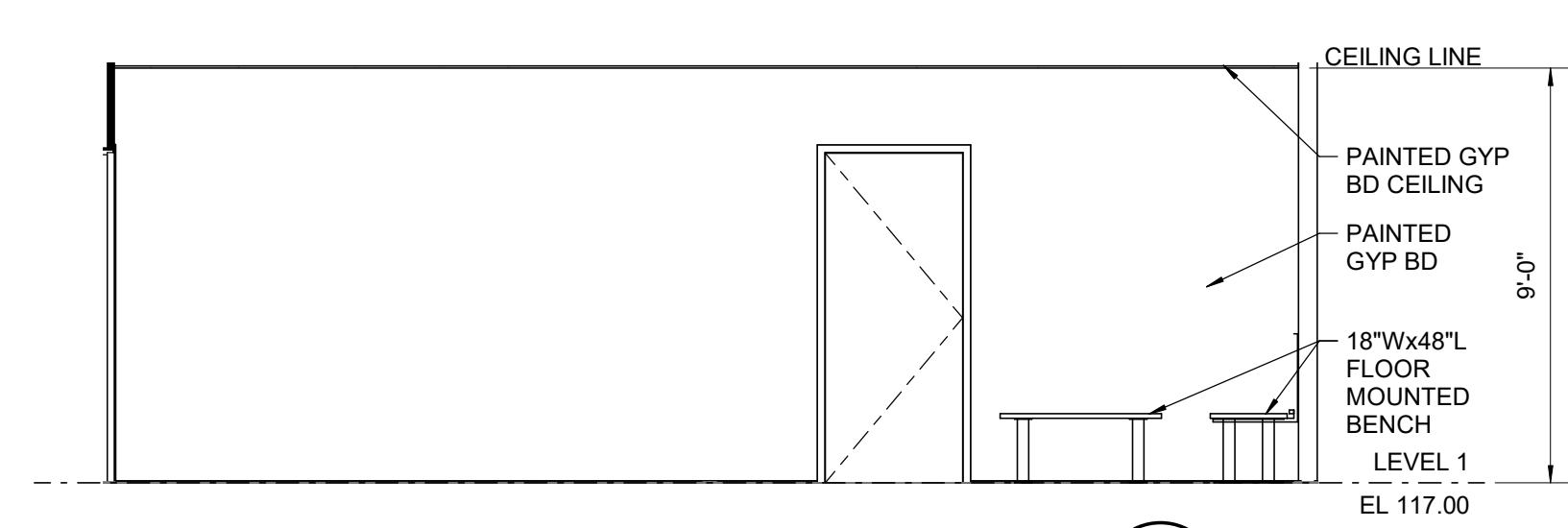
**MEN'S SHOWER/ RESTROOM** 5a  
1/4" = 1'-0" 930-A-4002



**MEN'S SHOWER/ RESTROOM** 5b  
1/4" = 1'-0" 930-A-4002



**MEN'S SHOWER/ RESTROOM** 5c  
1/4" = 1'-0" 930-A-4002



**MEN'S SHOWER/ RESTROOM** 5d  
1/4" = 1'-0" 930-A-4002

**CIVIC DESIGN REVIEW**



PROJECT ENGINEER	B WONG	DRAWN	E NAVARRO
PROJECT MANAGER	T BROWN	DESIGNED	E NAVARRO
APPROVED		CHECKED	
NO.	DATE	DESCRIPTION	BY
REVISIONS			

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ELEVATION DATUM  
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+100.00'

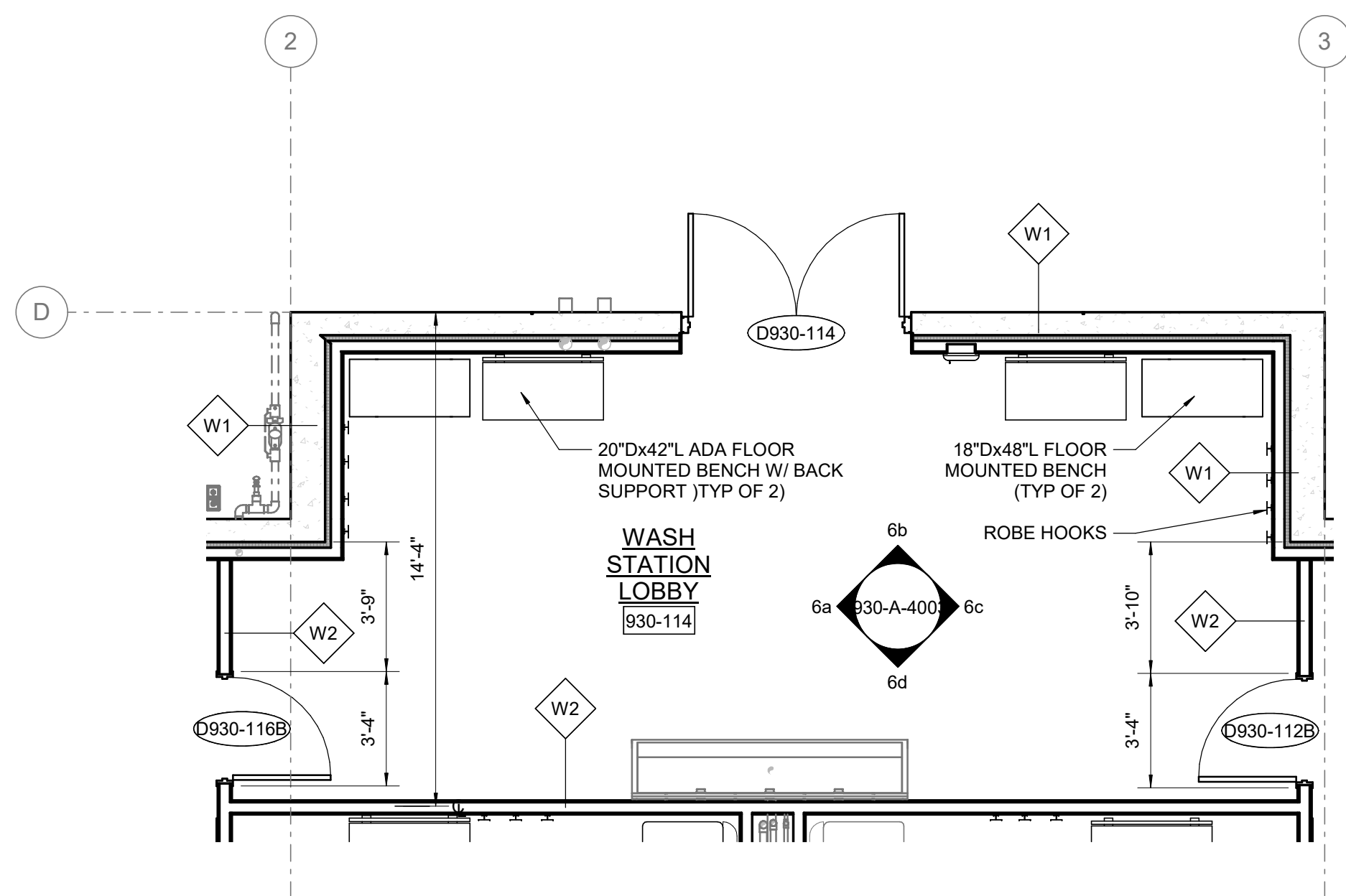
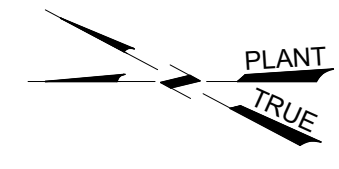
**CONTRACT NO. DB-132**  
CITY AND COUNTY OF SAN FRANCISCO  
**PUBLIC UTILITIES COMMISSION**  
INFRASTRUCTURE DIVISION  
ENGINEERING MANAGEMENT BUREAU  
WASTEWATER ENTERPRISE  
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY  
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY  
TIF 930 ADMINISTRATION BUILDING  
**ENLARGED PLAN AND INTERIOR ELEVATIONS**  
2 of 6

CHECKED / APPROVED	DRAWN
SECTION MANAGER	DESIGNED
WWE OPERATIONS MANAGER	SCALE AS SHOWN DATE 05/08/2024
APPROVED	APPROVED
MANAGER, ENGINEERING MANAGEMENT BUREAU	WWE ENGINEERING MANAGER
PLAN NO. <b>930-A-4002</b>	DRAWING / FILE NO. <b>0</b>

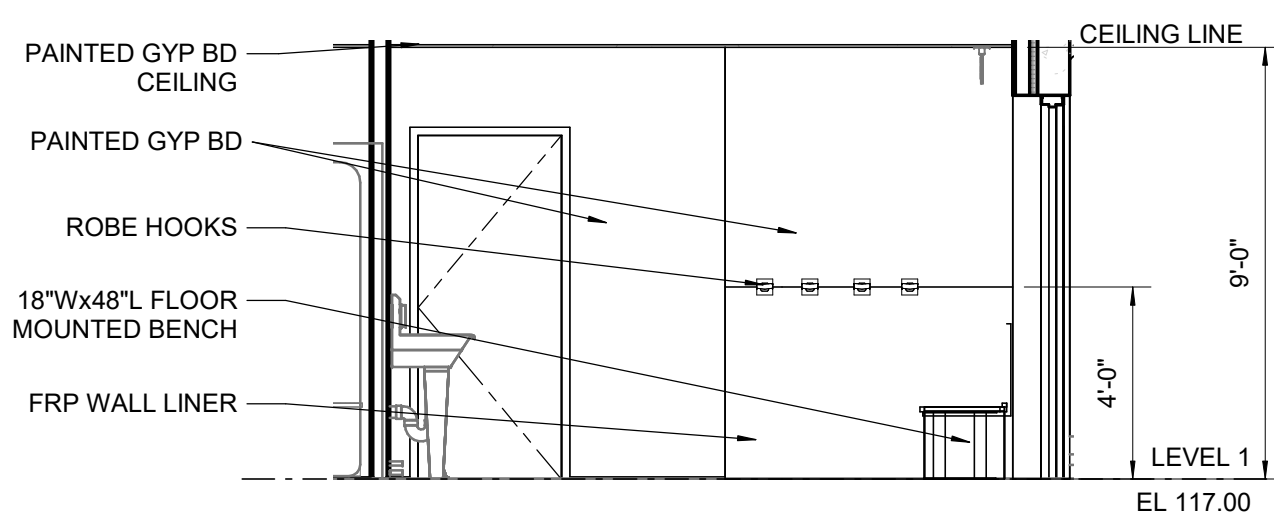


**GENERAL SHEET NOTES**

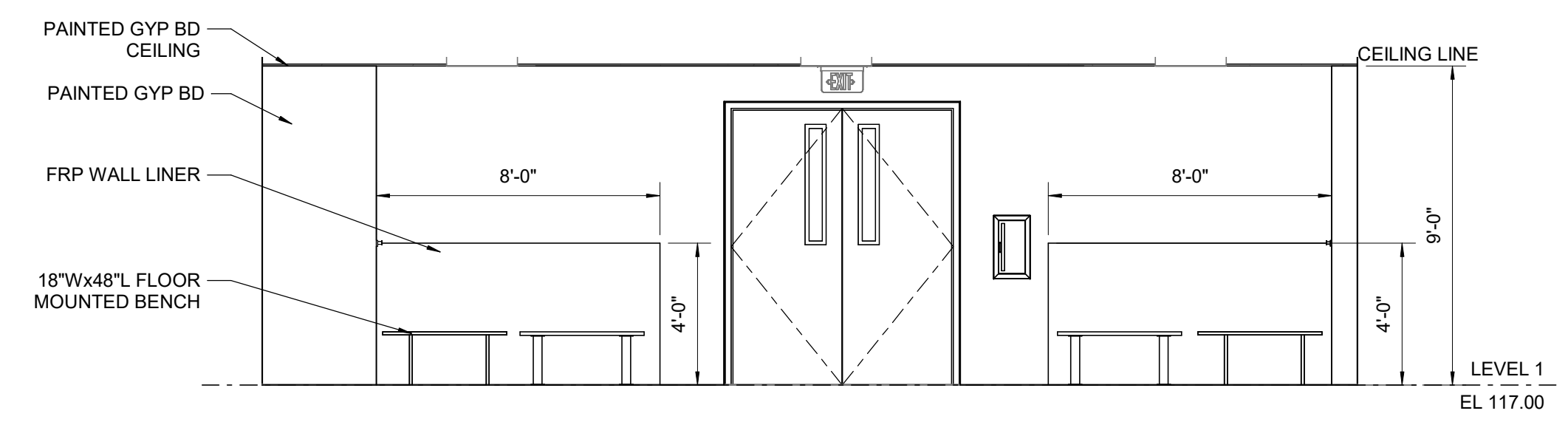
1. FURNISHINGS TO BE PROVIDED BY OTHERS.
2. ROOMS WITH OPEN CEILING, PAINT WALLS AND ALL EQUIPMENT FROM 10'-0" AFF TO ROOF STRUCTURE ABOVE MATTE BLACK (TYP).
3. SEE SHEET A-0001 FOR WATER CLOSET, URINAL, LAVATORY, TOILET ACCESSORIES, SHOWERS AND DRINKING FOUNTAIN ADA TYPICAL MOUNTING HEIGHTS AND LOCATIONS.



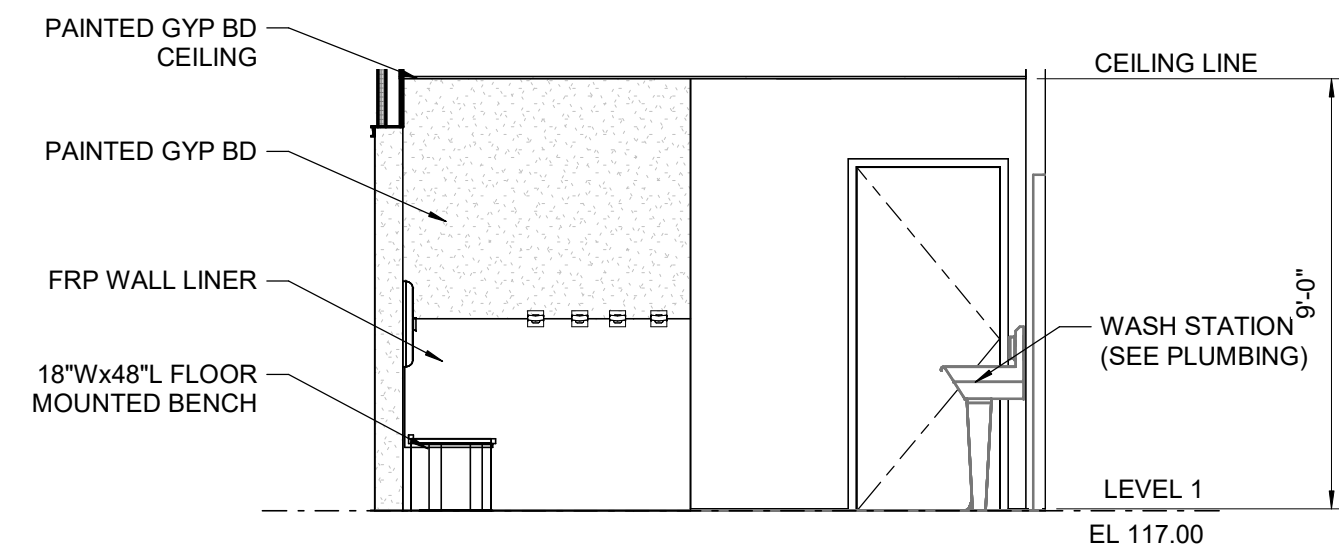
**ENLARGED PLAN**  
1/4" = 1'-0"  
3  
930-A-1002



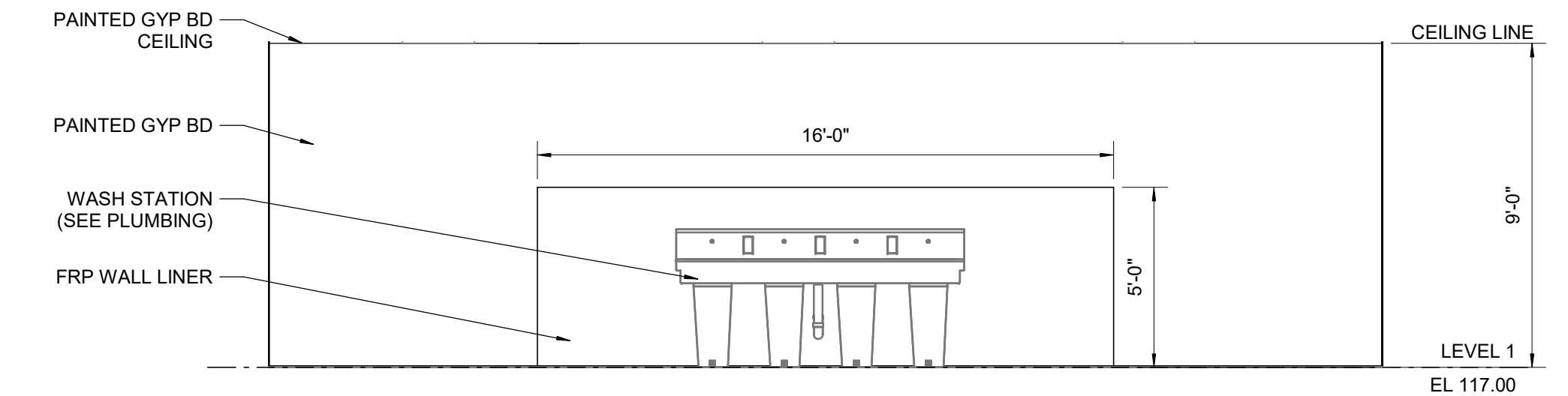
**WASH STATION LOBBY 6a**  
1/4" = 1'-0"  
930-A-4003



**WASH STATION LOBBY 6b**  
1/4" = 1'-0"  
930-A-4003



**WASH STATION LOBBY 6c**  
1/4" = 1'-0"  
930-A-4003



**WASH STATION LOBBY 6d**  
1/4" = 1'-0"  
930-A-4003

**CONTRACT NO. DB-132**

CITY AND COUNTY OF SAN FRANCISCO  
**PUBLIC UTILITIES COMMISSION**  
INFRASTRUCTURE DIVISION  
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WASTEWATER ENTERPRISE  
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY  
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY

TIF 930 ADMINISTRATION BUILDING  
**ENLARGED PLAN AND INTERIOR ELEVATIONS**  
3 of 6

**CIVIC DESIGN REVIEW**



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PROJECT MANAGER	T BROWN	DESIGNED	E NAVARRO
APPROVED		CHECKED	

CHECKED / APPROVED	DRAWN
SECTION MANAGER	DESIGNED
WWE OPERATIONS MANAGER	SCALE AS SHOWN DATE 05/08/2024
APPROVED	APPROVED

NO.	DATE	DESCRIPTION	BY	APPRD
REVISIONS				

MANAGER, ENGINEERING MANAGEMENT BUREAU	WWE ENGINEERING MANAGER
PLAN NO. <b>930-A-4003</b>	DRAWING / FILE NO. <b>0</b>

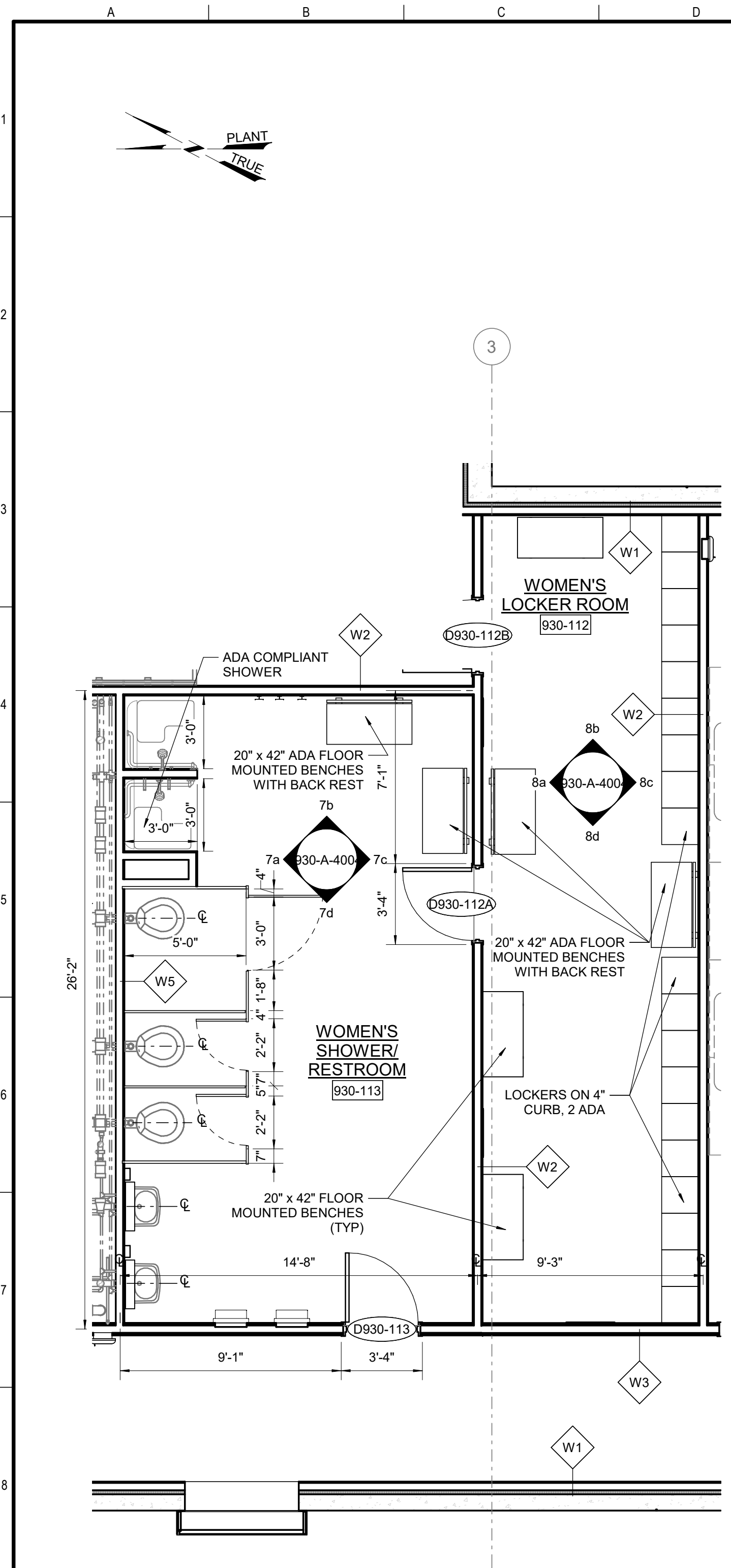
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ELEVATION DATUM  
NAVD88  
+100.00'

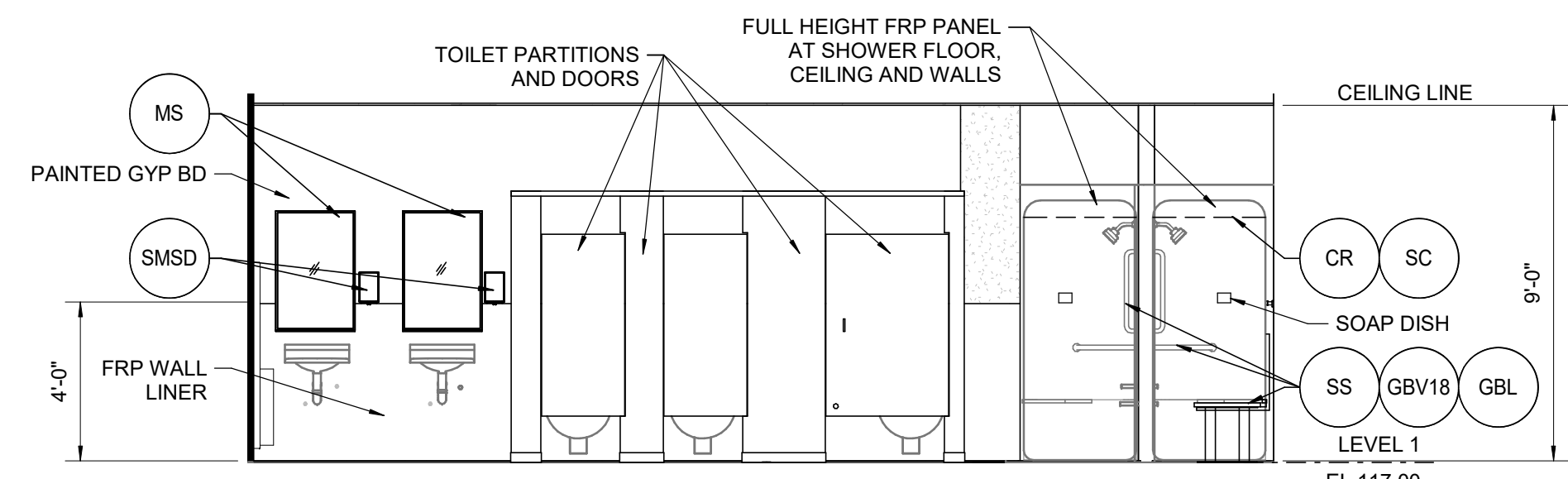


**GENERAL SHEET NOTES**

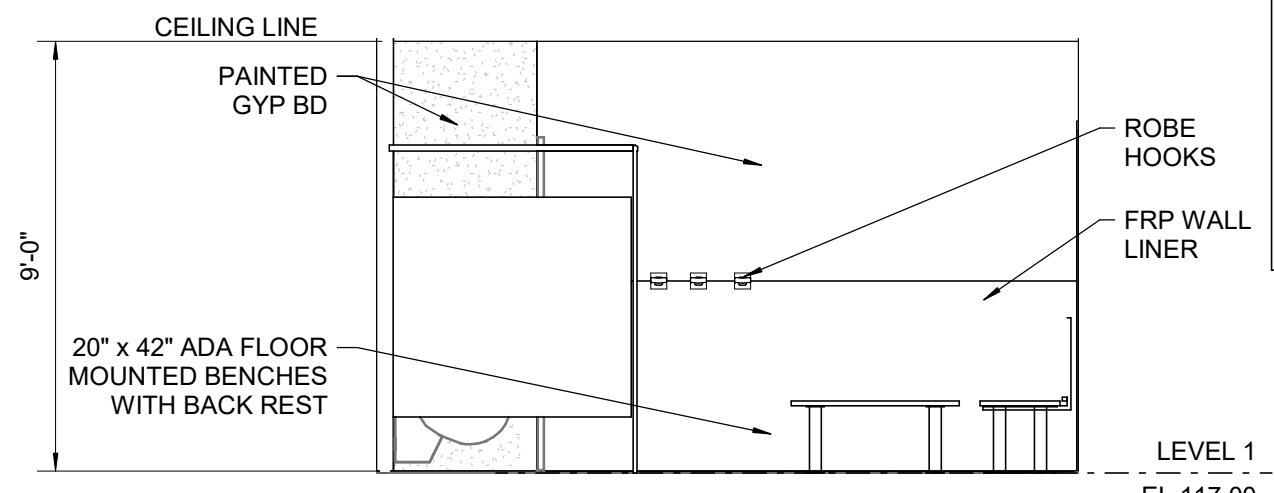
- FURNISHINGS TO BE PROVIDED BY OTHERS.
- ROOMS WITH OPEN CEILING. PAINT WALLS AND ALL EQUIPMENT FROM 10'-0" AFF TO ROOF STRUCTURE ABOVE MATTE BLACK (TYP).
- SEE SHEET A-001 FOR WATER CLOSET, URINAL, LAVATORY, TOILET ACCESSORIES, SHOWERS AND DRINKING FOUNTAIN ADA TYPICAL MOUNTING HEIGHTS AND LOCATIONS.



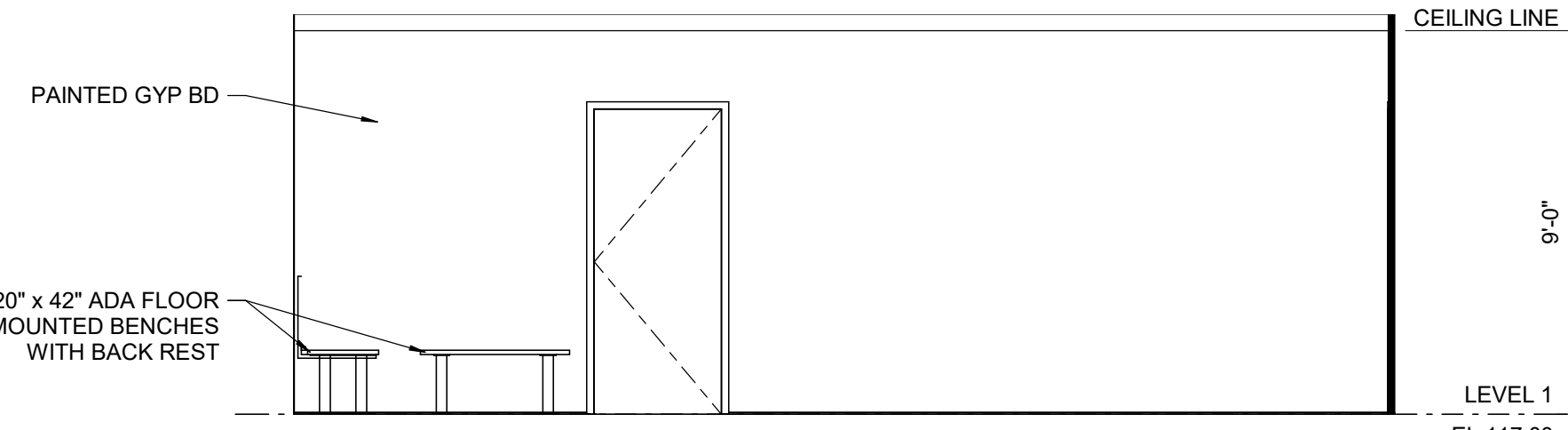
**ENLARGED PLAN**  
1/4" = 1'-0" **4**  
930-A-1002



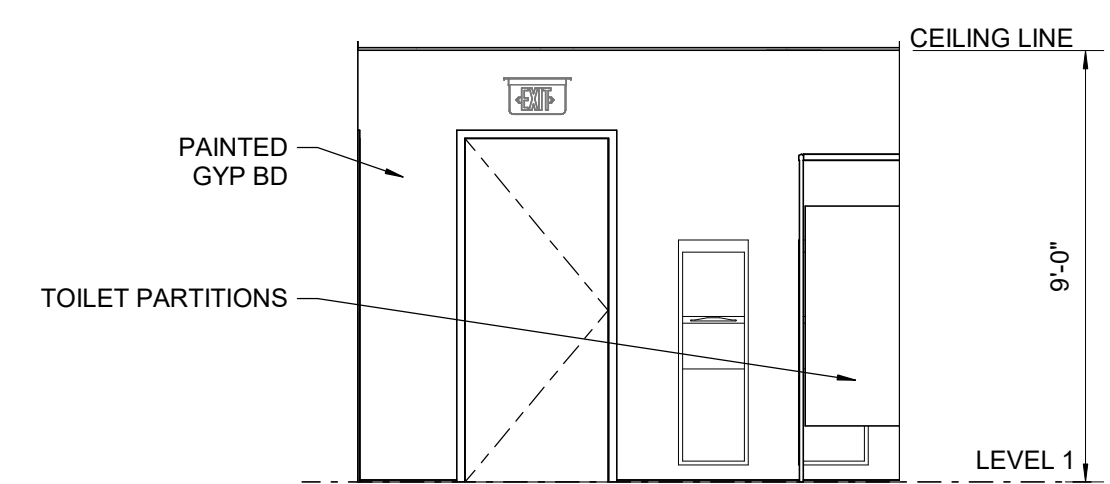
**WOMEN'S SHOWER/RESTROOM**  
1/4" = 1'-0" **7a**  
930-A-4003



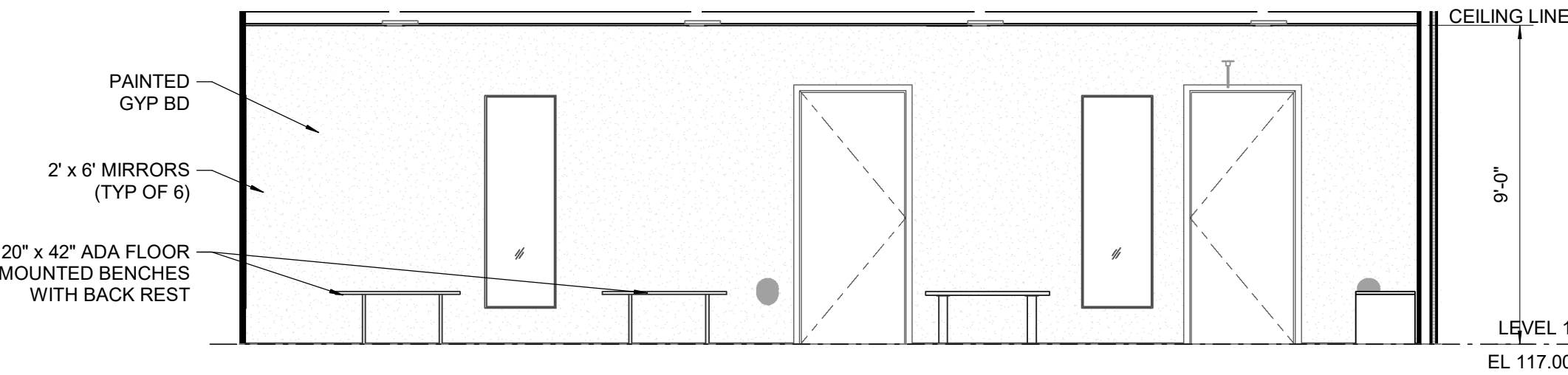
**WOMEN'S SHOWER/RESTROOM**  
1/4" = 1'-0" **7b**  
930-A-4002



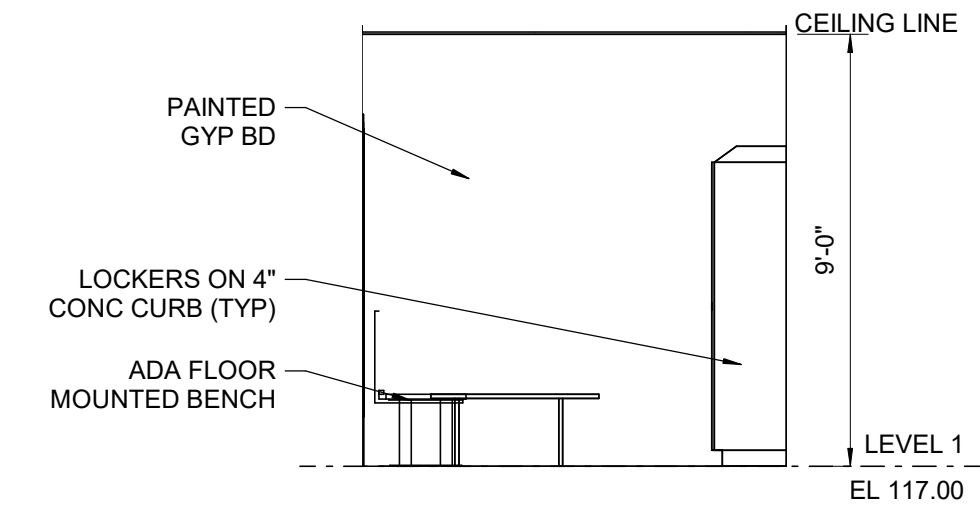
**WOMEN'S SHOWER/RESTROOM**  
1/4" = 1'-0" **7c**  
930-A-4003



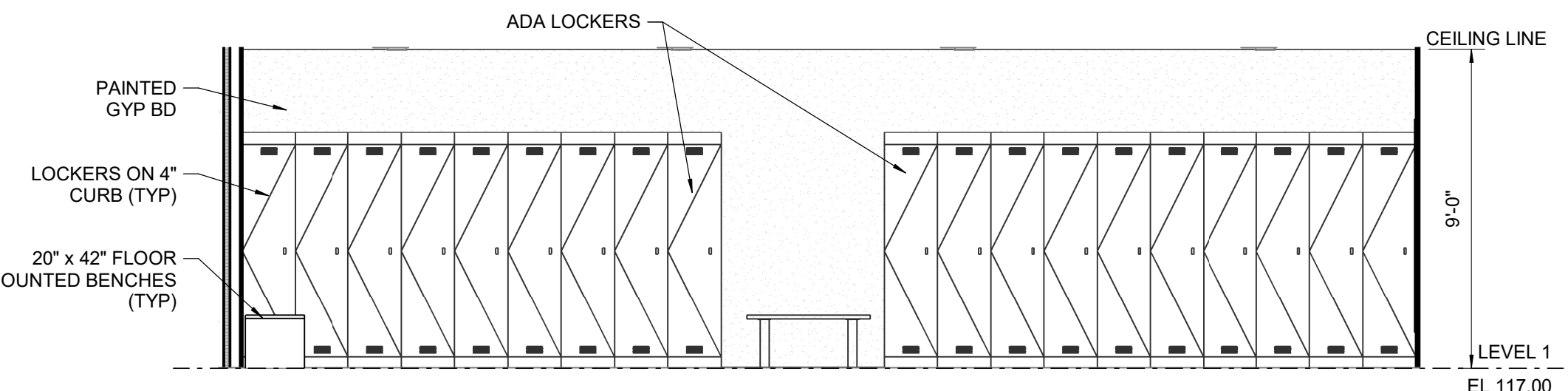
**WOMEN'S SHOWER/RESTROOM**  
1/4" = 1'-0" **7d**  
930-A-4004



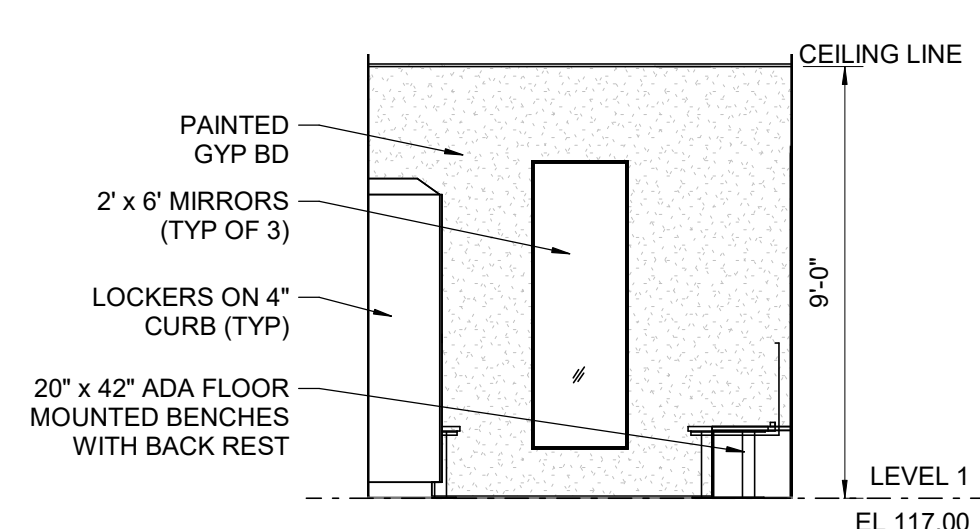
**WOMEN'S LOCKER ROOM**  
1/4" = 1'-0" **8a**  
930-A-4004



**WOMEN'S LOCKER ROOM**  
1/4" = 1'-0" **8b**  
930-A-4004



**WOMEN'S LOCKER ROOM**  
1/4" = 1'-0" **8c**  
930-A-4004



**WOMEN'S LOCKER ROOM**  
1/4" = 1'-0" **8d**  
930-A-4004

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ELEVATION DATUM  
NAVD88  
+100.00'

**CIVIC DESIGN REVIEW**

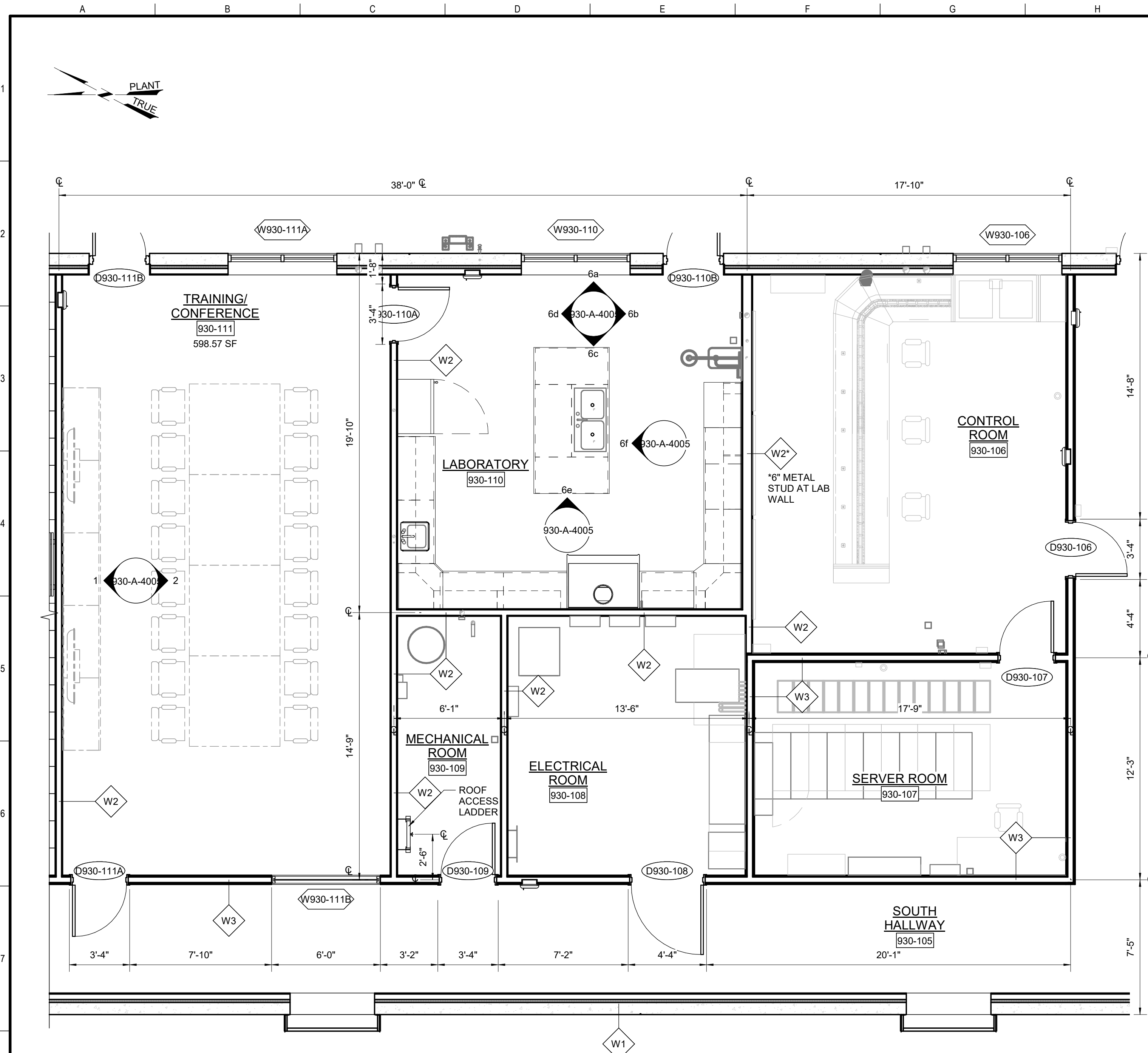
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PROJECT ENGINEER	B WONG	DRAWN	E NAVARRO
PROJECT MANAGER	T BROWN	DESIGNED	E NAVARRO
APPROVED		CHECKED	
NO.	DATE	DESCRIPTION	BY
		REVISIONS	APPRD

<b>CONTRACT NO. DB-132</b>			
CITY AND COUNTY OF SAN FRANCISCO			
<b>PUBLIC UTILITIES COMMISSION</b>			
INFRASTRUCTURE DIVISION			
ENGINEERING MANAGEMENT BUREAU			
WASTEWATER ENTERPRISE			
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY			
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY			
TIF 930 ADMINISTRATION BUILDING			
<b>ENLARGED PLAN AND INTERIOR ELEVATIONS</b>			
4 of 6			
CHECKED / APPROVED	DRAWN		
SECTION MANAGER	DESIGNED		
WWE OPERATIONS MANAGER	SCALE	DATE	
	AS SHOWN	05/08/2024	
APPROVED	APPROVED		
MANAGER, ENGINEERING MANAGEMENT BUREAU		WWE ENGINEERING MANAGER	
PLAN NO.	DRAWING / FILE NO.	REVISION NO.	
<b>930-A-4004</b>		<b>0</b>	

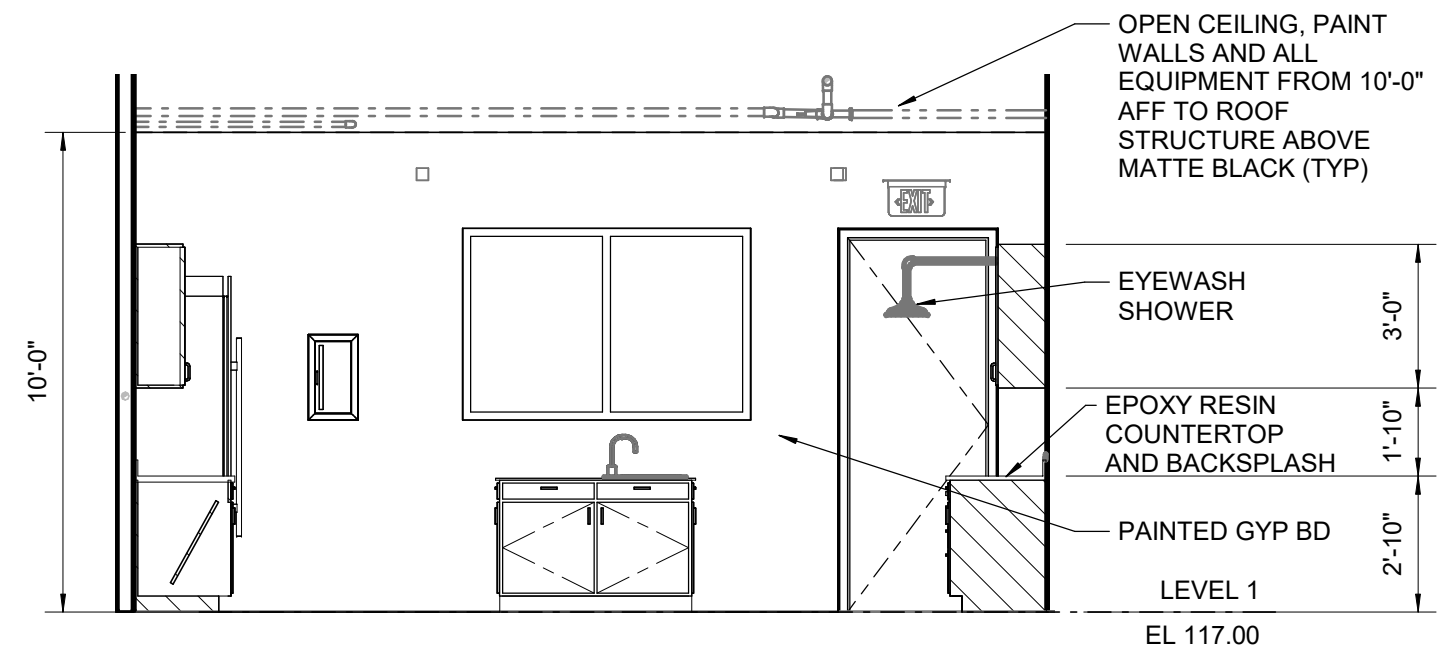


**GENERAL SHEET NOTES**

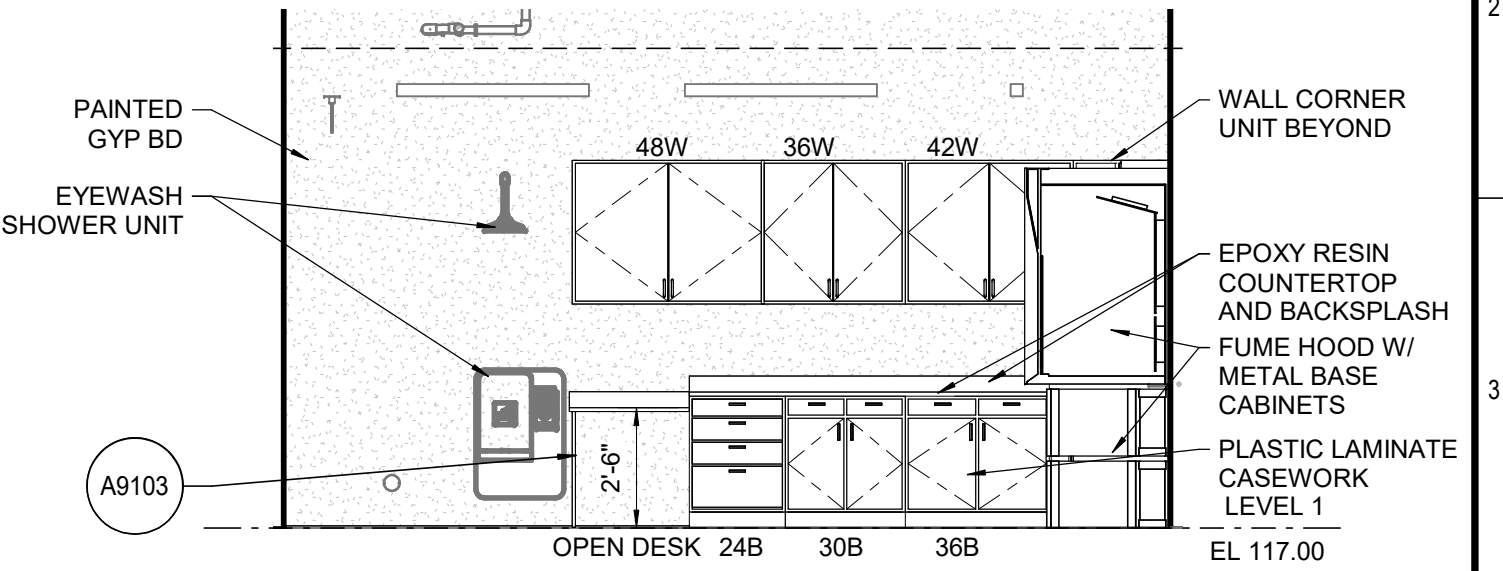
1. FURNISHINGS TO BE PROVIDED BY OTHERS.
2. ROOMS WITH OPEN CEILING, PAINT WALLS AND ALL EQUIPMENT FROM 10'-0" AFF TO ROOF STRUCTURE ABOVE MATTE BLACK (TYP).
3. SEE SHEET A-0001 FOR WATER CLOSET, URINAL, LAVATORY, TOILET ACCESSORIES, SHOWERS AND DRINKING FOUNTAIN ADA TYPICAL MOUNTING HEIGHTS AND LOCATIONS.



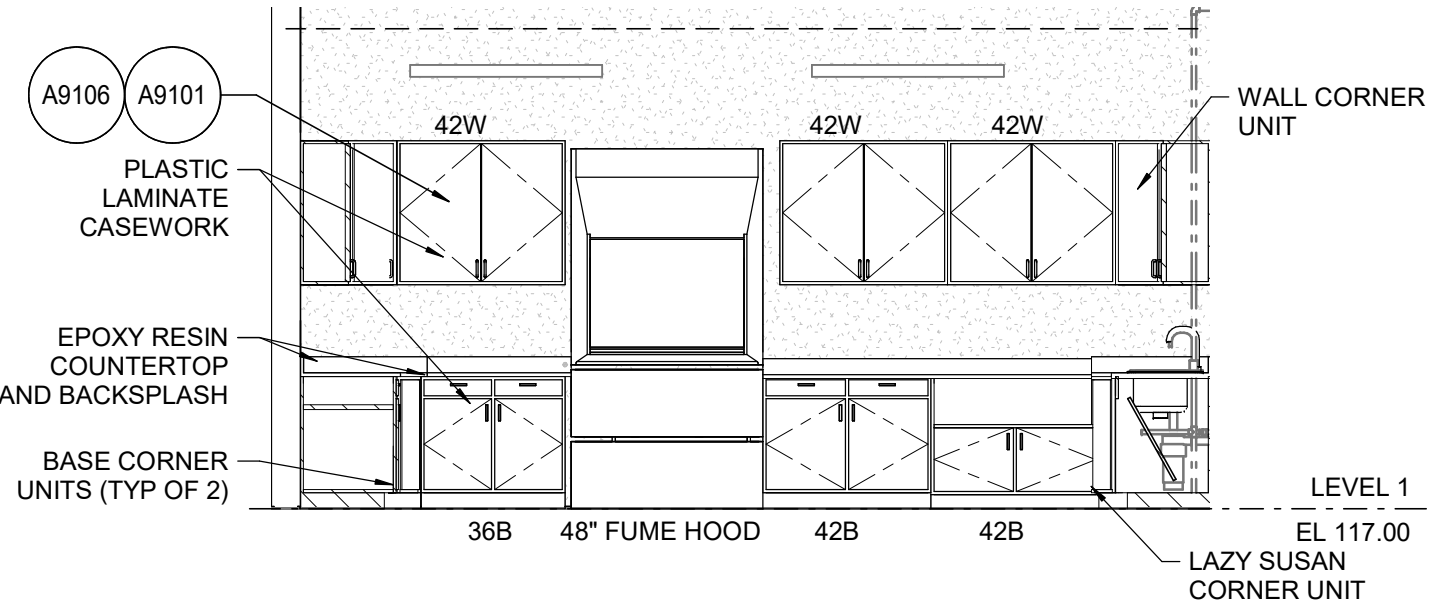
**ENLARGED PLAN** 5  
1/4" = 1'-0" 930-A-1002



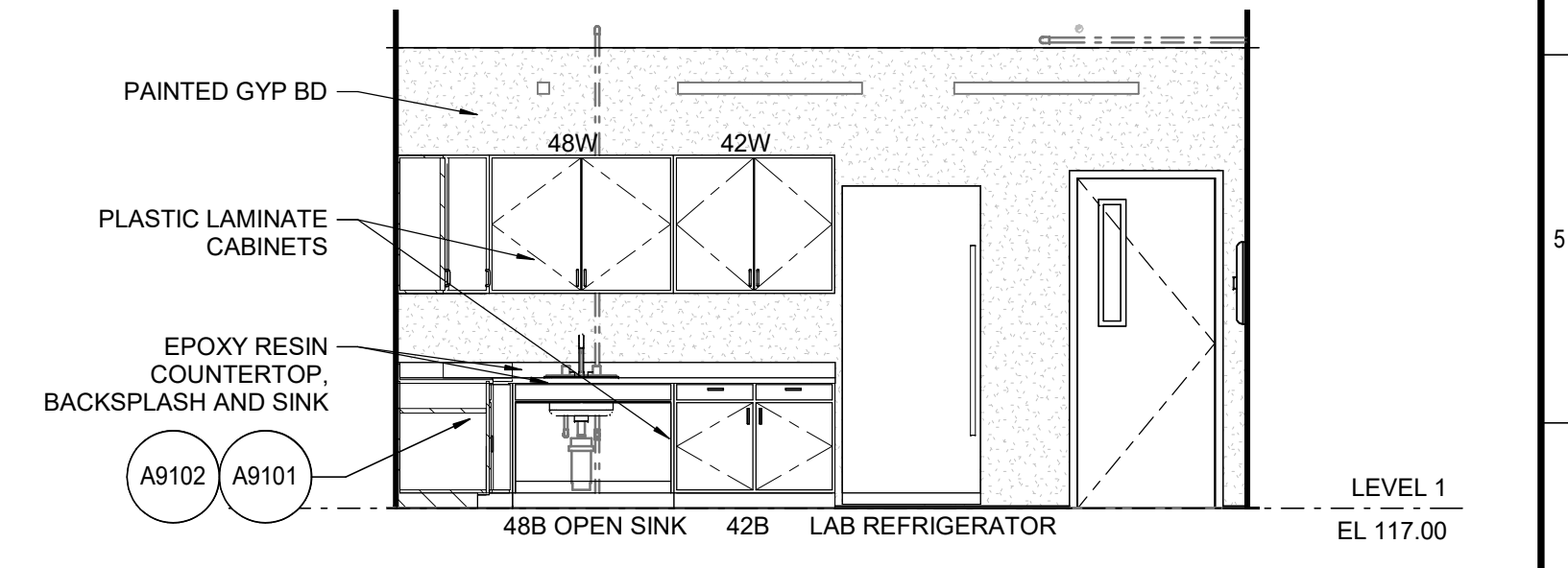
**LABORATORY** 6a  
1/4" = 1'-0" 930-A-4005



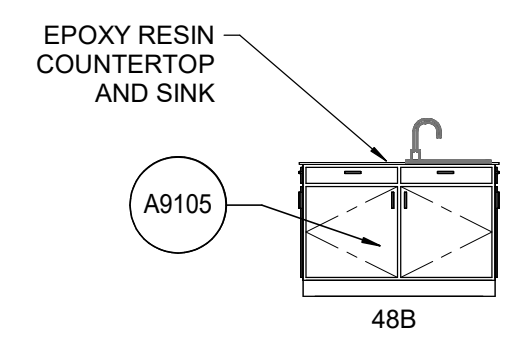
**LABORATORY** 6b  
1/4" = 1'-0" 930-A-4005



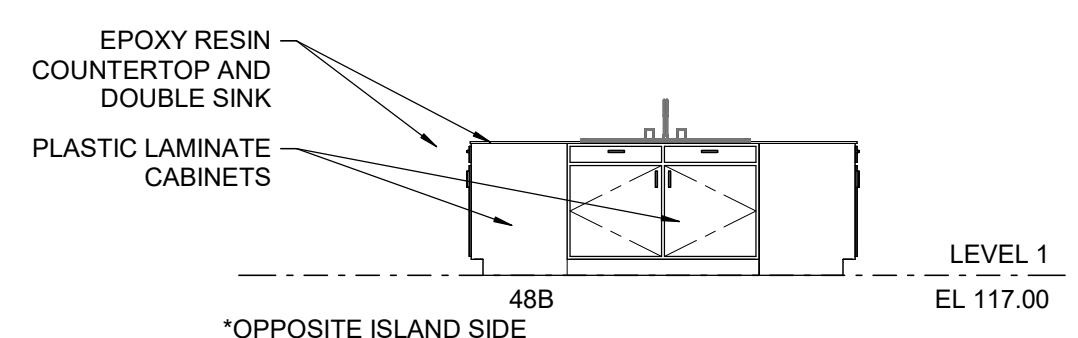
**LABORATORY** 6c  
1/4" = 1'-0" 930-A-4005



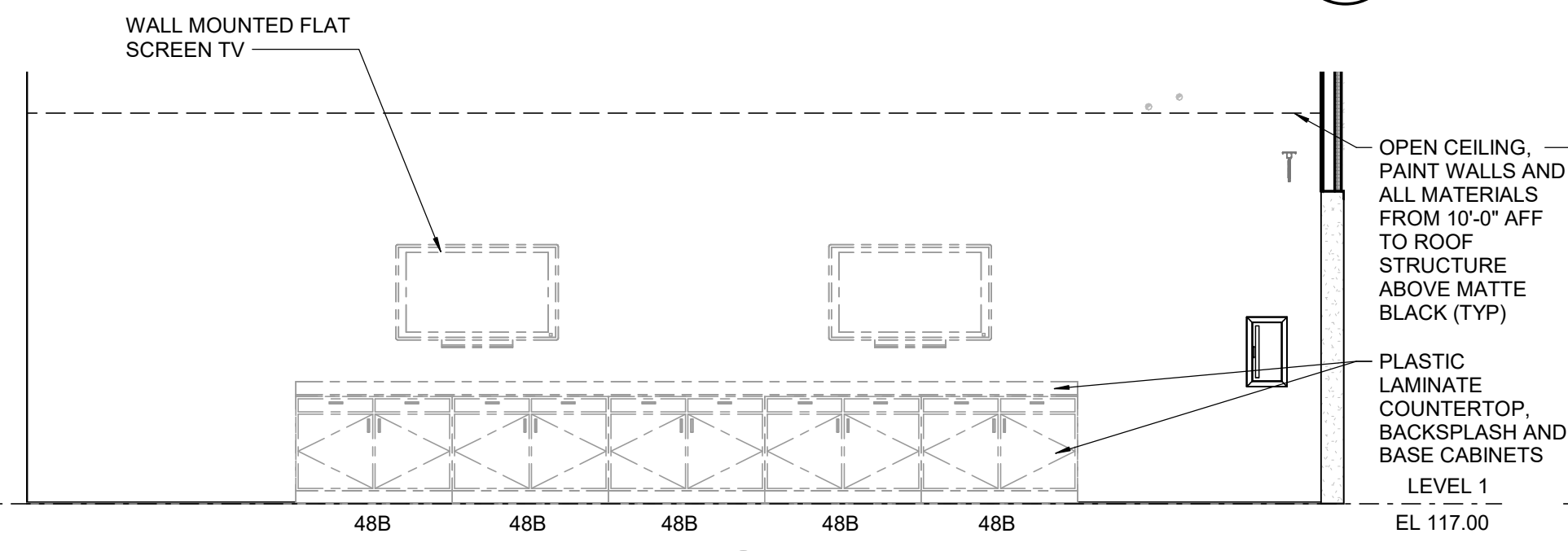
**LABORATORY** 6d  
1/4" = 1'-0" 930-A-4005



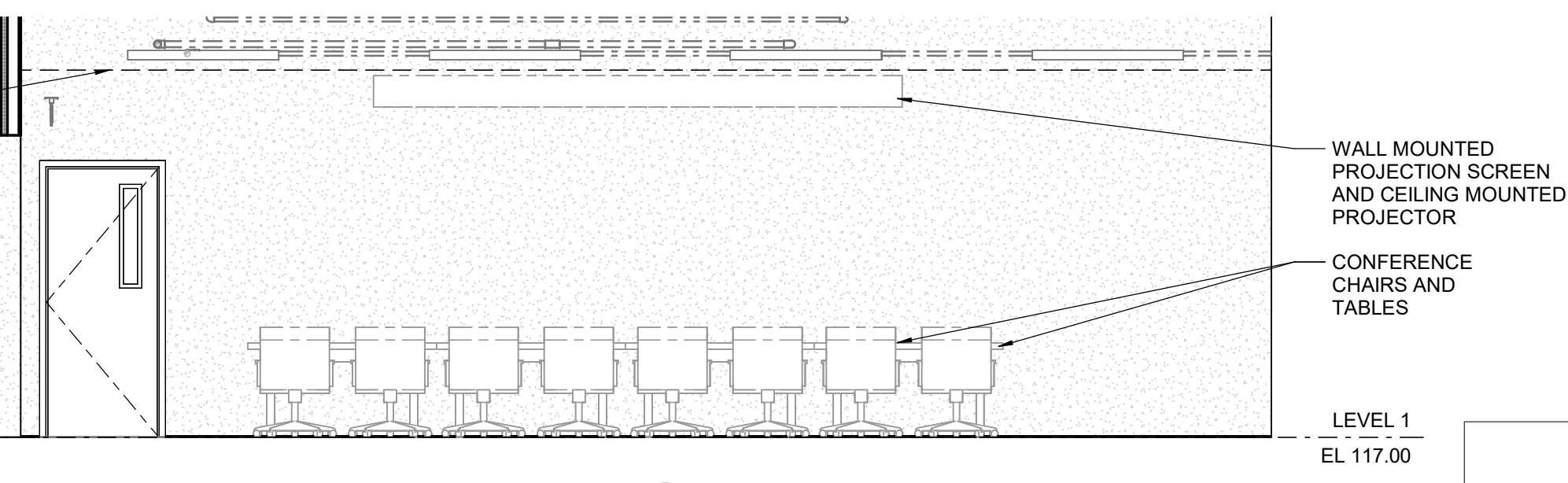
**LABORATORY ISLAND** 6e  
1/4" = 1'-0" 930-A-4005



**LABORATORY ISLAND** 6f  
1/4" = 1'-0" 930-A-4005



**CONFERENCE/ TRAINING** 1  
1/4" = 1'-0" 930-A-4005



**CONFERENCE/ TRAINING** 2  
1/4" = 1'-0" 930-A-4005

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ELEVATION DATUM NAVD88 +100.00'

**CIVIC DESIGN REVIEW**



PROJECT ENGINEER	B WONG	DRAWN	E NAVARRO
PROJECT MANAGER	T BROWN	DESIGNED	E NAVARRO
APPROVED		CHECKED	

NO.	DATE	DESCRIPTION	BY	APPRD
REVISIONS				

**CONTRACT NO. DB-132**  
CITY AND COUNTY OF SAN FRANCISCO  
**PUBLIC UTILITIES COMMISSION**  
INFRASTRUCTURE DIVISION  
ENGINEERING MANAGEMENT BUREAU

WASTEWATER ENTERPRISE  
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY  
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY

TIF 930 ADMINISTRATION BUILDING  
**ENLARGED PLAN AND INTERIOR ELEVATIONS**  
5 of 6

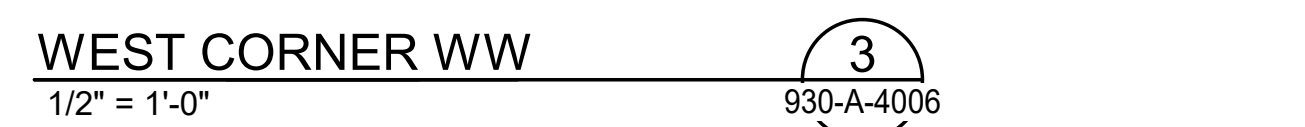
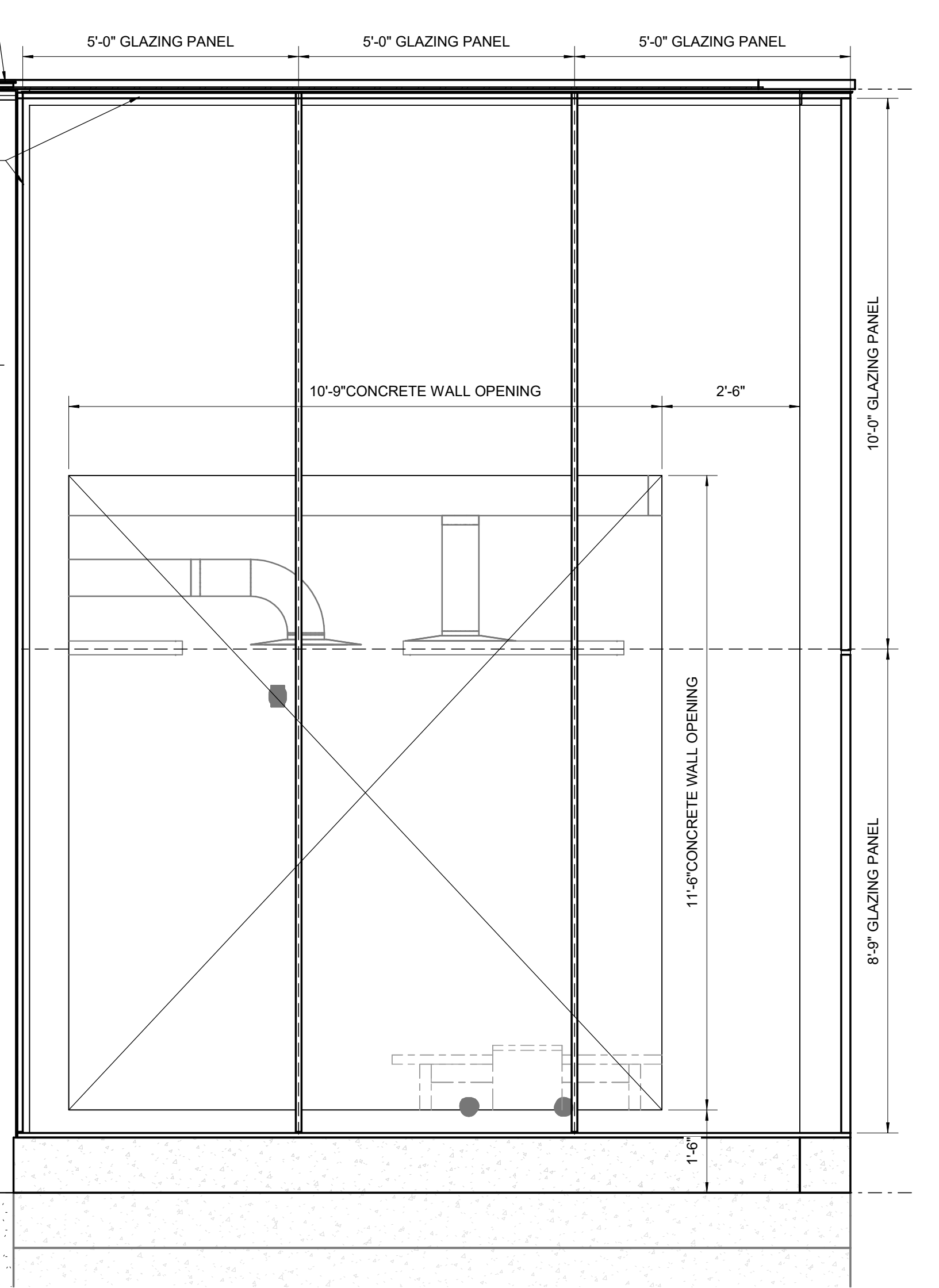
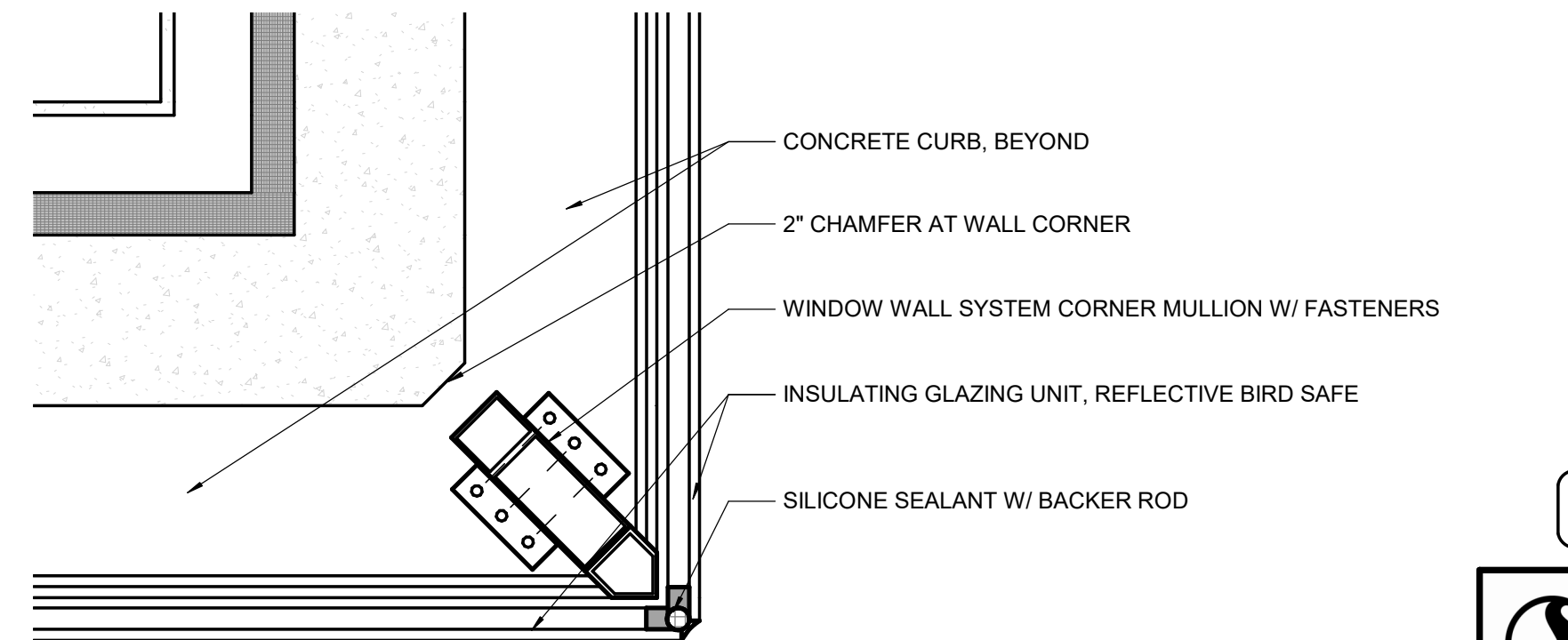
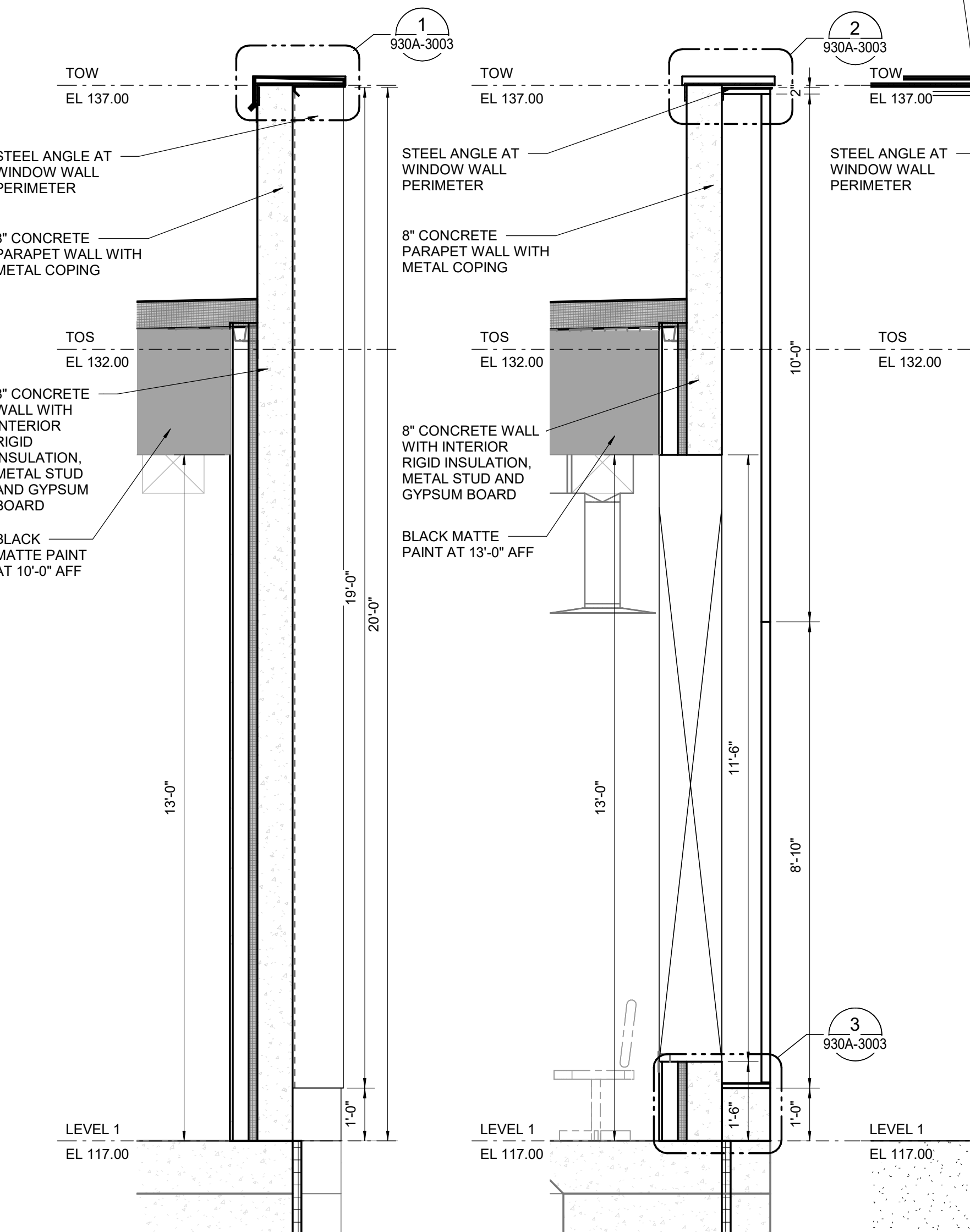
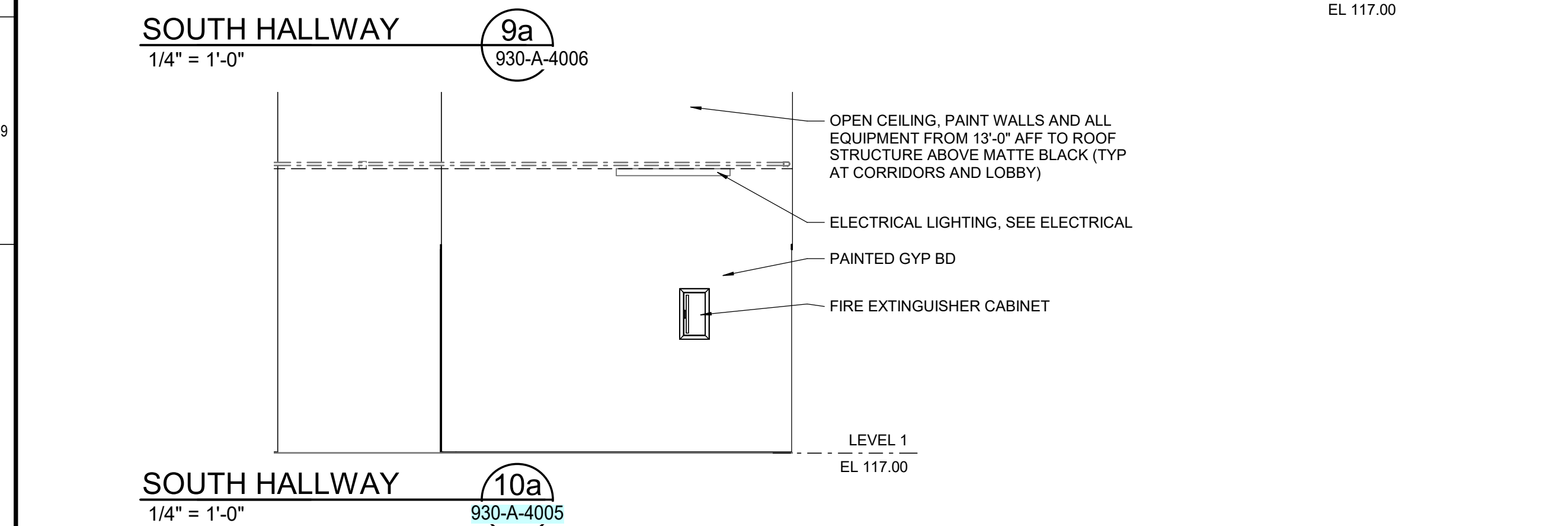
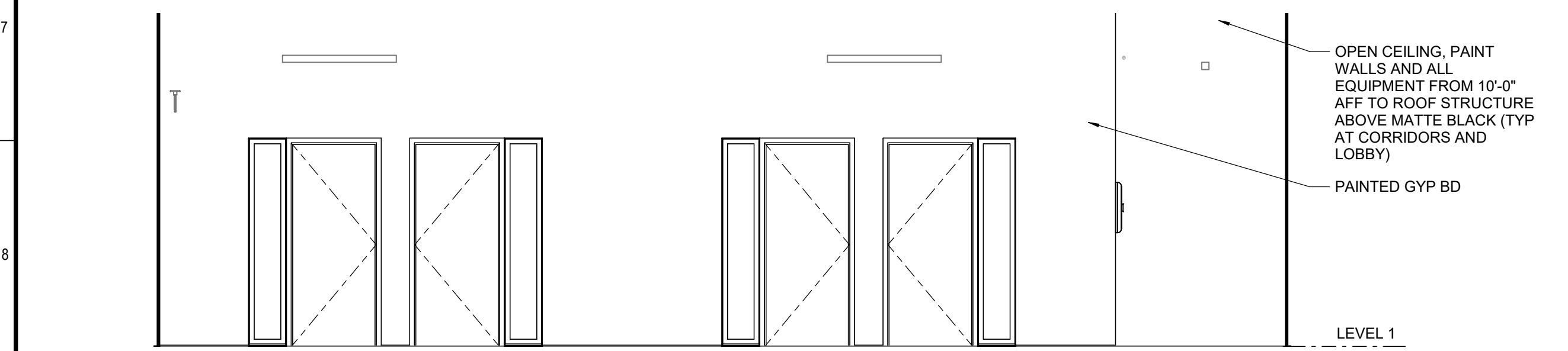
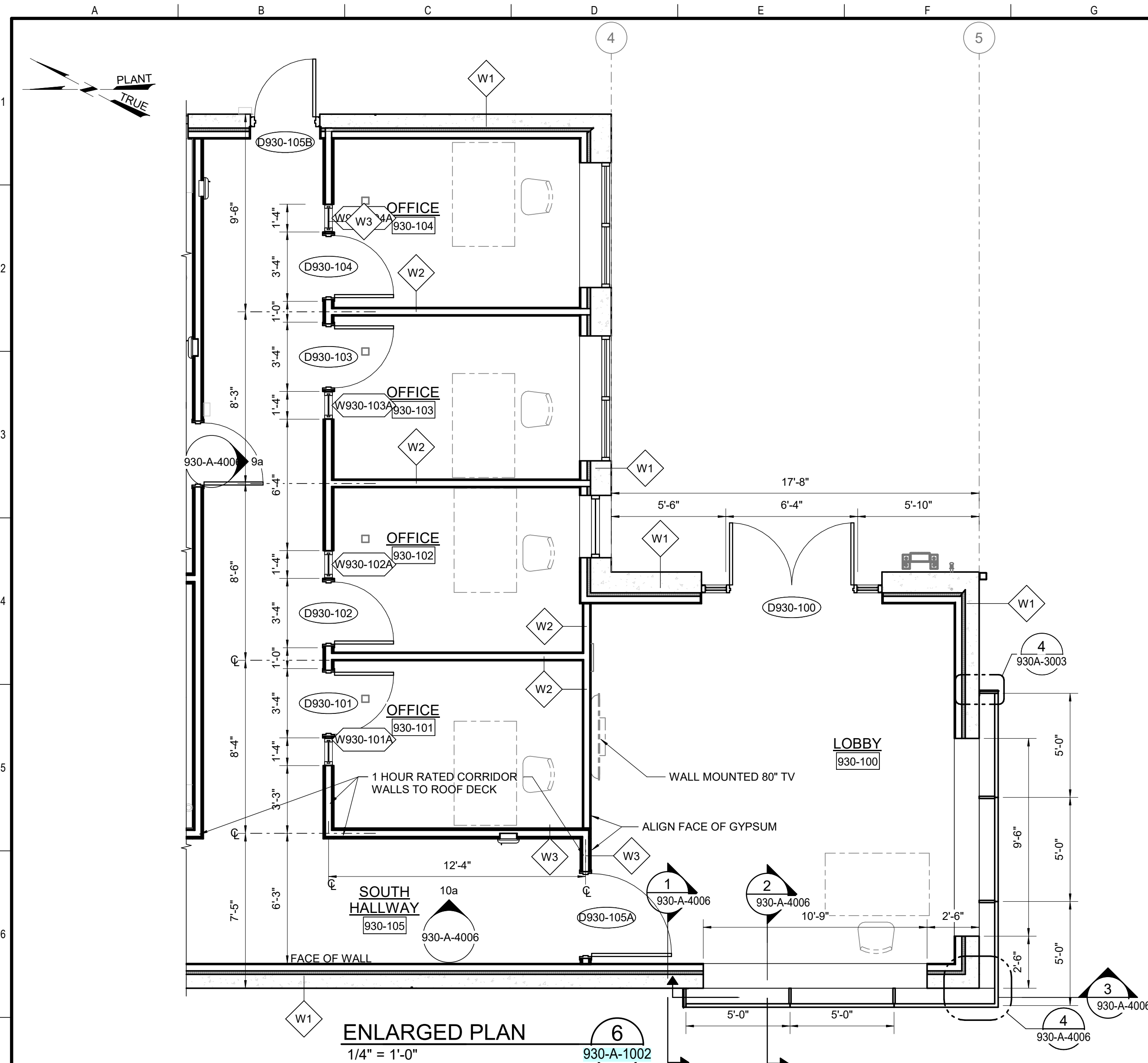
CHECKED / APPROVED	DRAWN
SECTION MANAGER	DESIGNED
WWE OPERATIONS MANAGER	SCALE AS SHOWN DATE 05/08/2024
APPROVED	APPROVED

MANAGER, ENGINEERING MANAGEMENT BUREAU	WWE ENGINEERING MANAGER
PLAN NO. <b>930-A-4005</b>	DRAWING / FILE NO.
	REVISION NO. <b>0</b>



**GENERAL SHEET NOTES**

- FURNISHINGS TO BE PROVIDED BY OTHERS.
- ROOMS WITH OPEN CEILING, PAINT WALLS AND ALL EQUIPMENT FROM 10'-0" AFF TO ROOF STRUCTURE ABOVE MATTE BLACK (TYP).



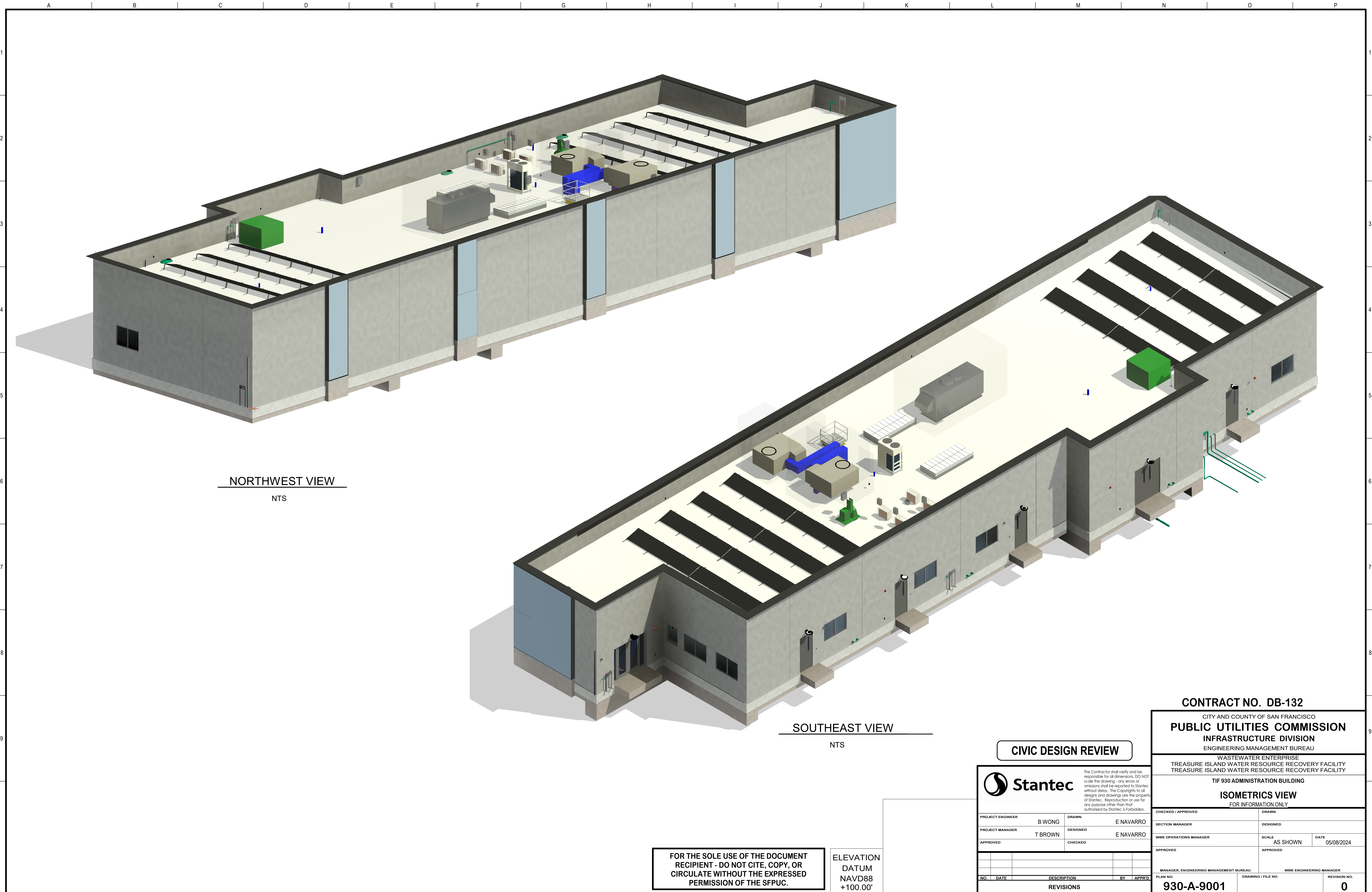
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**ELEVATION DATUM NAVD88 +100.00'**

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PROJECT MANAGER	T BROWN	DESIGNED	E NAVARRO
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NO.	DATE	DESCRIPTION	BY
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WASTEWATER ENTERPRISE			
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY			
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY			
TIF 930 ADMINISTRATION BUILDING			
<b>ENLARGED PLAN AND INTERIOR ELEVATIONS</b>			
<b>6 of 6</b>			
CHECKED / APPROVED		DRAWN	
SECTION MANAGER		DESIGNED	
WWE OPERATIONS MANAGER		SCALE	AS SHOWN
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PLAN NO.	930-A-4006	DRAWING / FILE NO.	
REVISION NO.		REVISION NO.	0





**NORTHWEST VIEW**  
NTS

**SOUTHEAST VIEW**  
NTS

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**ELEVATION  
DATUM  
NAVD88  
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**CIVIC DESIGN REVIEW**



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WWE OPERATIONS MANAGER	SCALE	AS SHOWN	DATE 05/08/2024
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<b>930-A-9001</b>		<b>0</b>	



### BUILDING CODE SUMMARY

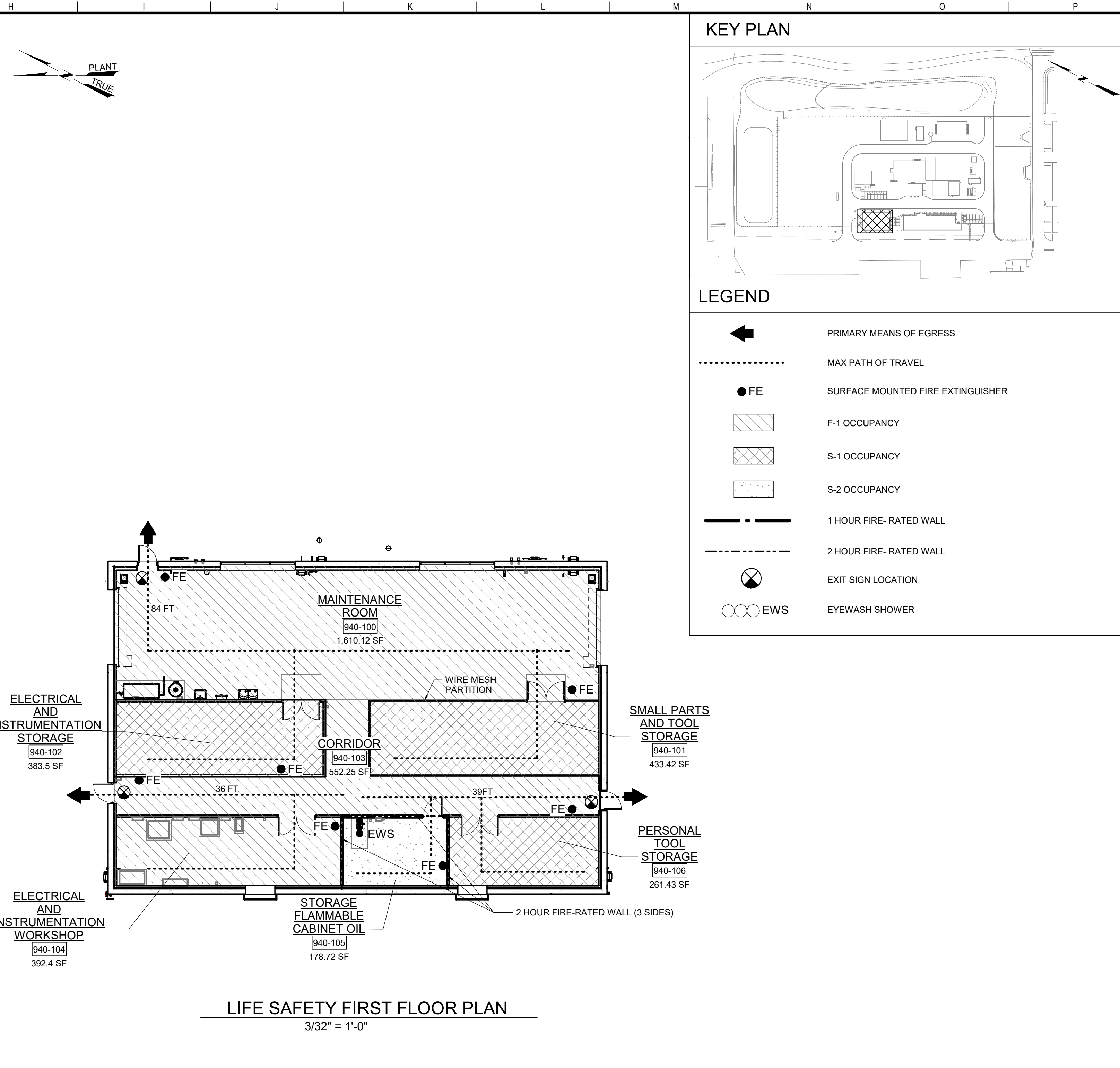
OWNER: CITY AND COUNTY OF SAN FRANCISCO PUBLIC UTILITIES COMMISSION		DATE: APRIL 2023									
PROJECT NAME: TREASURE ISLAND WATER RECOVERY RESOURCE FACILITY		PROJECT NO: 184031705									
PROJECT LOCATION: TREASURE ISLAND SAN FRANCISCO, CALIFORNIA		ARCHITECT: ERIC SANCHEZ									
AREA/BUILDING: 930 ADMINISTRATION BUILDING		LICENSE NO: C-33920									
GOVERNING CODES											
BUILDING CODE: 2022 CALIFORNIA BUILDING CODE, TITLE 24, PART 2 W/ 2022 SAN FRANCISCO AMENDMENTS		ENERGY CODE: 2022 CALIFORNIA ENERGY CODE, TITLE 24, PART 6									
FIRE CODE: 2022 CALIFORNIA FIRE CODE W/ 2019 SAN FRANCISCO FIRE CODE AMENDMENTS		OTHER: NFPA 101 LIFE SAFETY CODE									
GREEN CODE: 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE CAL GREEN, TITLE 24, PART 11											
ACCESSIBILITY CODE: 2010 AMERICANS W/ DISABILITIES ACT STANDARDS FOR ACCESSIBLE DESIGN, ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES ICC A117.1-2010											
HAZARDOUS MATERIALS (1)											
CHEMICAL	CAS NO	QUANTITY	REMARKS								
NFPA 704 RATING											
HEALTH	FLAMMABILITY	REACTIVITY	SPECIAL								
HAZARD PROPERTIES											
PHYSICAL	HEALTH	OCCUPANCY GROUP WHEN MAX ALLOWABLE QUANTITY EXCEEDED (2)									
OIL; ENGINE 30W, AW68, T46											
GASOLINE, DIESEL FUEL											
USE AND OCCUPANCY CLASSIFICATION/ALLOWABLE AREA AND HEIGHT (3)											
OCCUPANCY GROUP AND DESCRIPTION		CONSTRUCTION TYPE	ALLOWABLE HEIGHT								
GROUP F-1, MODERATE-HAZARD FACTORY INDUSTRIAL		TYPE IIB	55 FT, 2 STORIES								
		ALLOWABLE AREA	ACTUAL AREA								
		15,500 SF	4,267 SF								
ACTUAL AREA / ALLOWABLE AREA RATIO											
4,267 SF / 15,500 SF = 0.28% < 1.00 %											
OCCUPANCY SEPARATION (4)											
FIRE RESISTANCE RATING OF STRUCTURAL ELEMENTS (6)											
OCCUPANCIES	ASSEMBLY RATING	OPENING RATING	INCIDENTAL USE (5)		STRUCTURAL FRAME	BEARING WALLS EXTERIOR	BEARING WALLS INTERIOR	FLOOR CONSTRUCTION	ROOF CONSTRUCTION	EXT WALLS BASED ON SEPARATION DISTANCE (7)	
			ROOM OR AREA	SEPARATION PROTECTION						SEPARATION DISTANCE	RATING
GROUP F-1, S-1, S-2	NA	NA	FLAMMABLE STORAGE	2 HRS	0 HR	0 HR	0 HR	0 HR	0 HR	10 FEET <= X < 30 FT	0 HR
NON-SEPARATED OCCUPANCIES PER 508.3											
FIRE PROTECTION SYSTEMS (8)											
FIRE EXTINGUISHERS: EVERY 75 FEET						AUTOMATIC FIRE PROTECTION SYSTEM: NOT REQUIRED					
MEANS OF EGRESS (9)											
ROOM NAME	OCCUPANCY GROUP	FUNCTION OF SPACE	MAX FLOOR AREA PER OCCUPANT	TOTAL OCCUPANT LOAD	EXITS REQUIRED	EXITS PROVIDED	MAXIMUM COMMON PATH OF TRAVEL DISTANCE	ACTUAL COMMON PATH OF TRAVEL DISTANCE	MAXIMUM EXIT ACCESS TRAVEL DISTANCE	ACTUAL EXIT ACCESS TRAVEL DISTANCE	
MAINTENANCE ROOM	F-1	INDUSTRIAL	100 GROSS	15	2	3	75 FT	40 FT	200 FT	84 FT	
ELECTRICAL & INSTRUMENT STORAGE	F-1	INDUSTRIAL	100 GROSS	3	1	1	75 FT	34 FT	200 FT	50 FT	
ELECTRICAL & INSTRUMENT WORKSHOP	F-1	INDUSTRIAL	100 GROSS	2	1	1	75 FT	33 FT	200 FT	64 FT	
STORAGE FLAMMABLE CABINET OIL	S-1	ACCESSORY STORAGE	300 GROSS	2	1	1	75 FT	15 FT	200 FT	43 FT	
PERSONAL TOOL STORAGE	S-2	ACCESSORY STORAGE	300 GROSS	1	1	1	75 FT	21 FT	200 FT	45 FT	
SMALL PARTS & TOOL STORAGE	S-2	ACCESSORY STORAGE	300 GROSS	1	1	1	75 FT	70 FT	200 FT	115 FT	

### THERMAL RESISTANCE SUMMARY

BUILDING CLIMATE ZONE = 3	ZIP CODE = 94130	PROVIDED R-VALUE	PROVIDED U-FACTOR	REQUIRED R-VALUE	REQUIRED U-FACTOR
<b>ASSEMBLY CONCRETE SLAB FOUNDATION (VERTICAL)</b>					
POLYISOCYANURATE RIGID INSULATION BOARD		10.00	0.100	MAX 0.200	
<b>EXTERIOR MASS WALL</b>					
10" CAST IN PLACE CONCRETE WALL		10.00	0.100	MAX 0.650	
POLYISOCYANURATE RIGID INSULATION BOARD					
METAL STUD, AIR FILM, GYPSUM BOARD					
<b>EXTERIOR DOOR, SWINGING</b>					
HM DOOR W/POLYURETHANE		2.63	1.176	MAX 0.70	
<b>EXTERIOR DOOR, NON-SWINGING</b>					
HM DOOR W/POLYURETHANE		0.69	1.45	MAX 1.45	
AIR FILM (MOVING AIR AND STILL AIR)					
TOTAL					
<b>FIXED WINDOW</b>					
U-FACTOR		2.778	0.36	MAX 0.36	
RELATIVE SOLAR HEAT GAIN COEFFICIENT (RSHGC)			0.25	MAX 0.25	
VISIBLE TRANSMITTANCE (VT)			0.42	MIN 0.42	
<b>FIXED WINDOW REFLECTIVE</b>					
U-FACTOR		2.778	0.36	MAX 0.36	
RELATIVE SOLAR HEAT GAIN COEFFICIENT (RSHGC)			0.25	MAX 0.25	
VISIBLE TRANSMITTANCE (VT)			0.42	MIN 0.42	
<b>SKYLIGHT (SRR% = 5% OF GROSS ROOF AREA) PLASTIC, CURB MOUNTED</b>					
U-FACTOR		1.13	0.88	MAX 0.88	
SOLAR HEAT GAIN COEFFICIENT (SHGC)			NR	NR	
VISIBLE TRANSMITTANCE (VT)			0.64	MIN 0.64	
<b>FRAMED METAL ROOF</b>					
SINGLE PLY PVC ROOF MEMBRANE SYSTEM		30.00	0.033	MAX 0.034	
RIGID INSULATION ROOF BOARD		0.65	0.65	MIN 0.63	
-AGED SOLAR REFLECTANCE		0.75	0.75	MIN 0.75	
-THERMAL EMITTANCE		75	75	MIN 75	
SOLAR REFLECTANCE INDEX (SRI)		30.00	0.033	MAX 0.034	
TOTAL					
<b>AIR BARRIER</b>		YES	YES	REQUIRED	

\*R-VALUE / U-FACTOR ARE OBTAINED FROM MFR DATA SHEET UNLESS OTHERWISE NOTED. REQUIRED U-FACTOR OBTAINED FROM TABLE 140.3-B OF CALIFORNIA ENERGY CODE 2022.

FILE: Autodesk Docs://5403270 - Treasure Island WRRF/DB-132\_TIF940\_A-md.rvt



**LIFE SAFETY FIRST FLOOR PLAN**

3/32" = 1'-0"

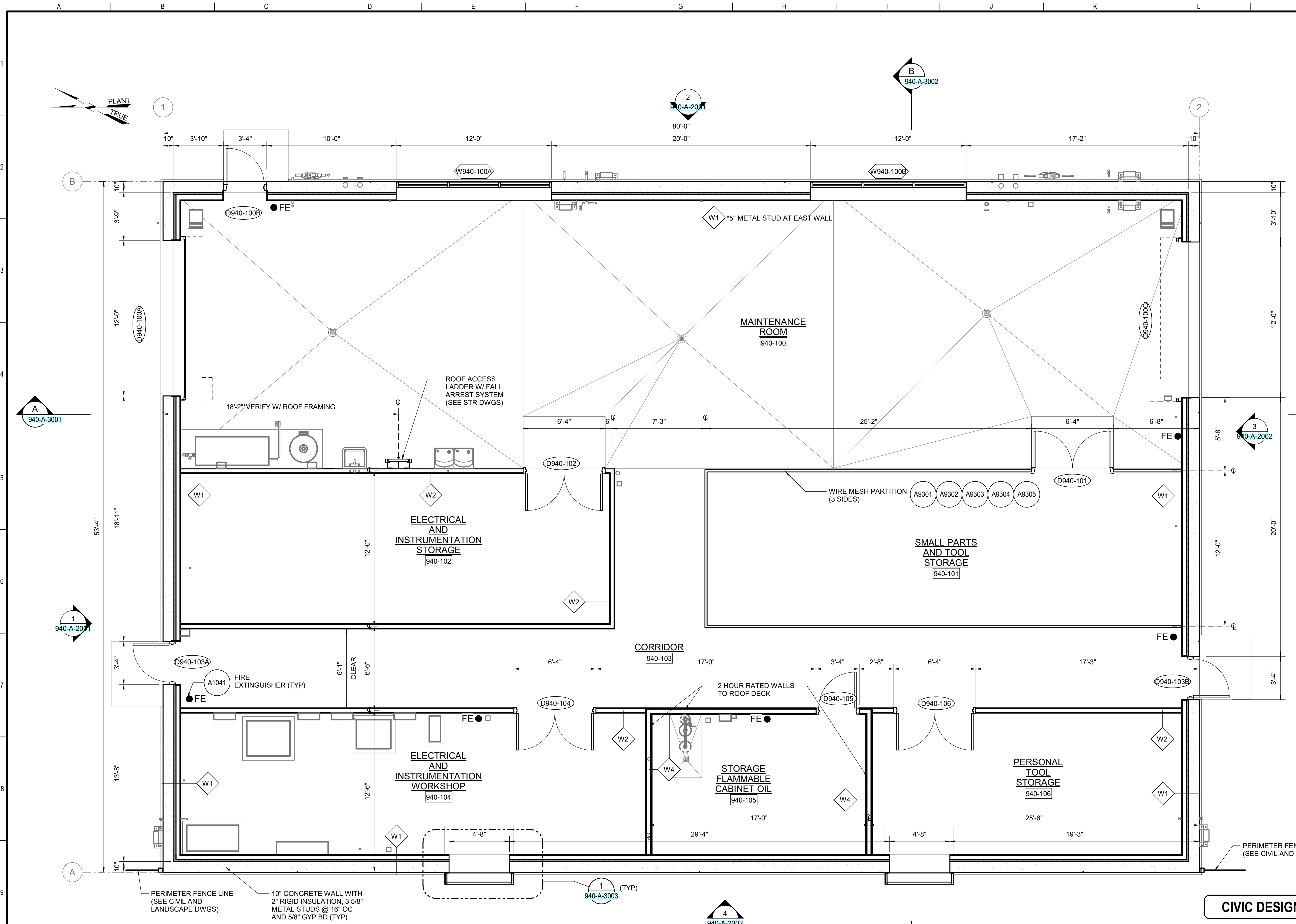
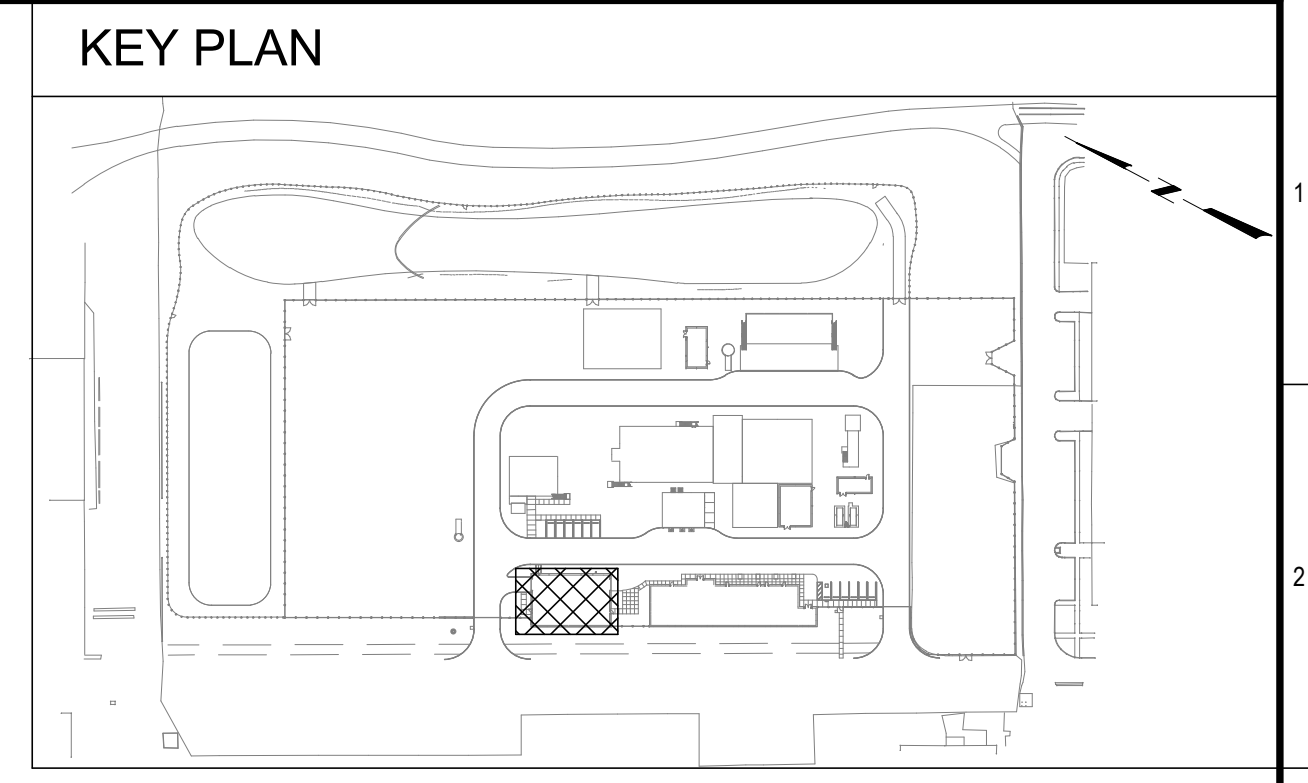
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**TIF 940 MAINTENANCE SHOPS**  
**CODE SUMMARY AND LIFE SAFETY PLAN**

<b>CIVIC DESIGN REVIEW</b>			
PROJECT ENGINEER	B WONG	DRAWN	P JOSHI
PROJECT MANAGER	T BROWN	DESIGNED	E NAVARRO
APPROVED		CHECKED	
CHECKED / APPROVED SECTION MANAGER WVE OPERATIONS MANAGER APPROVED		DRAWN DESIGNED SCALE AS SHOWN DATE 05/08/2024 APPROVED	
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**LEVEL 1 PLAN**  
1/4" = 1'-0"

**CIVIC DESIGN REVIEW**

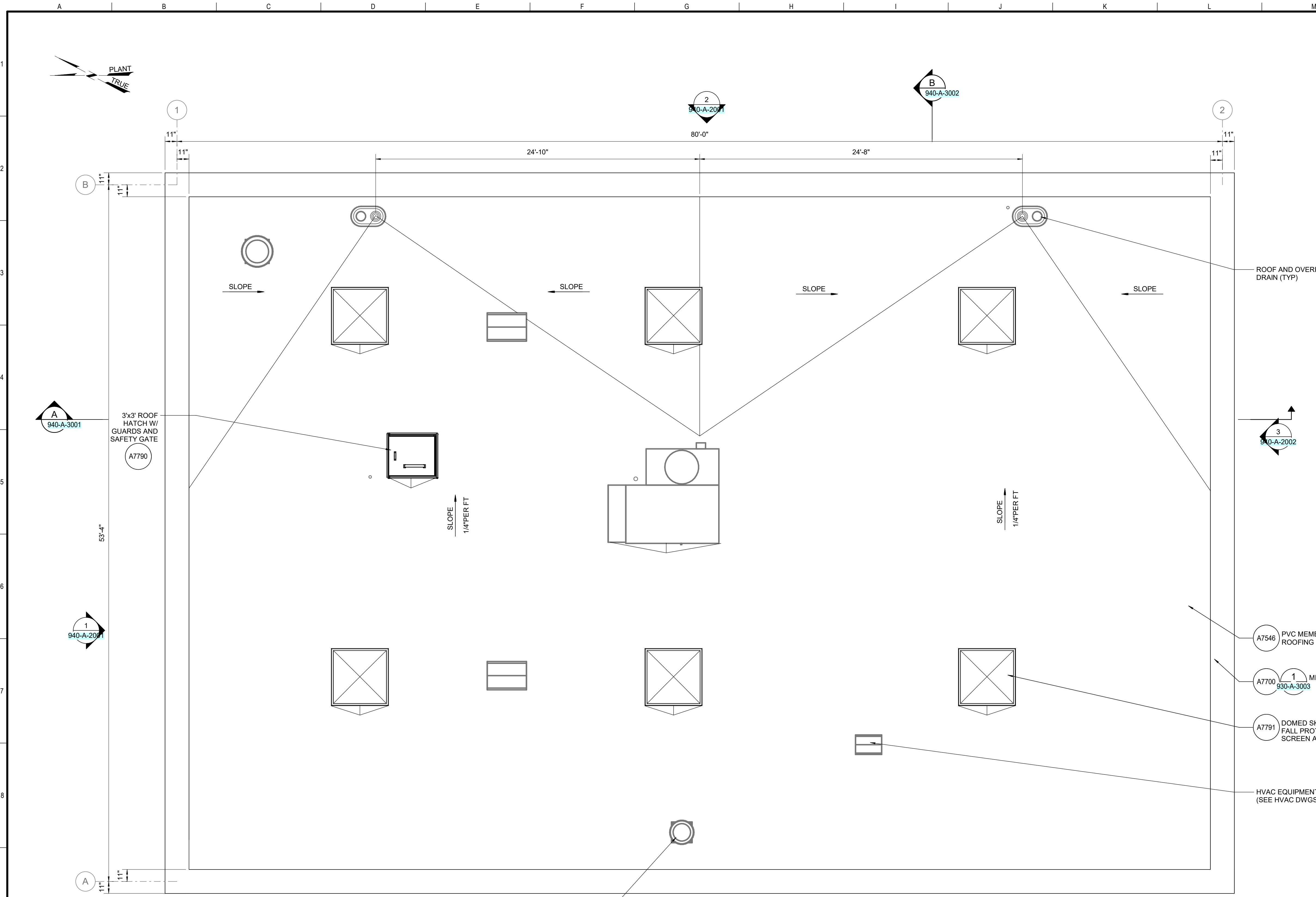
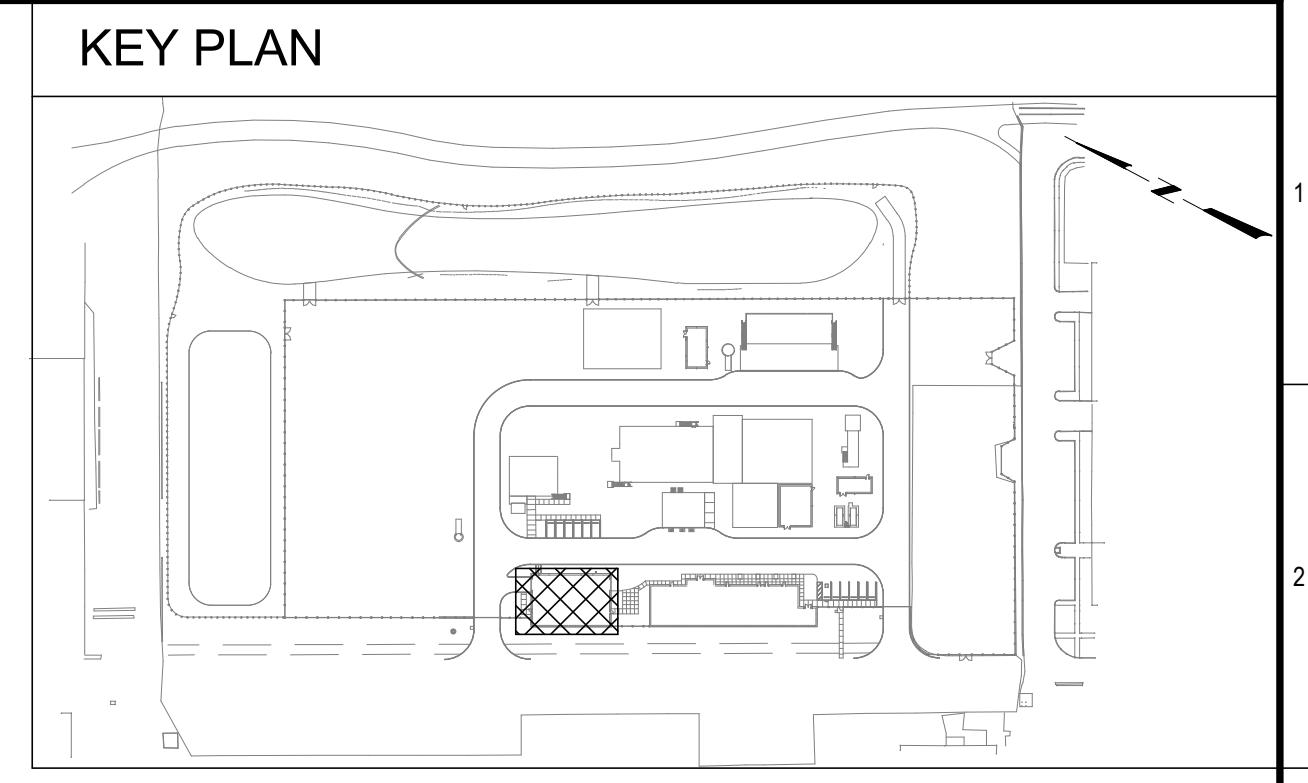
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<b>LEVEL 1 PLAN</b>			
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ROOF AND OVERFLOW DRAIN (TYP) A7751

A7546 PVC MEMBRANE ROOFING SYSTEM (TYP)

A7700 1 METAL COPING (TYP) 930-A-3003

A7791 DOMED SKYLIGHT WITH FALL PROTECTION SCREEN ABOVE (TYP)

HVAC EQUIPMENT (SEE HVAC DWGS)

A7716 EXHAUST FAN, TYP (SEE HVAC DWGS)

3'x3' ROOF HATCH W/ GUARDS AND SAFETY GATE A7790

**ROOF PLAN**  
1/4" = 1'-0"

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TIF 940 MAINTENANCE SHOPS

**ROOF PLAN**

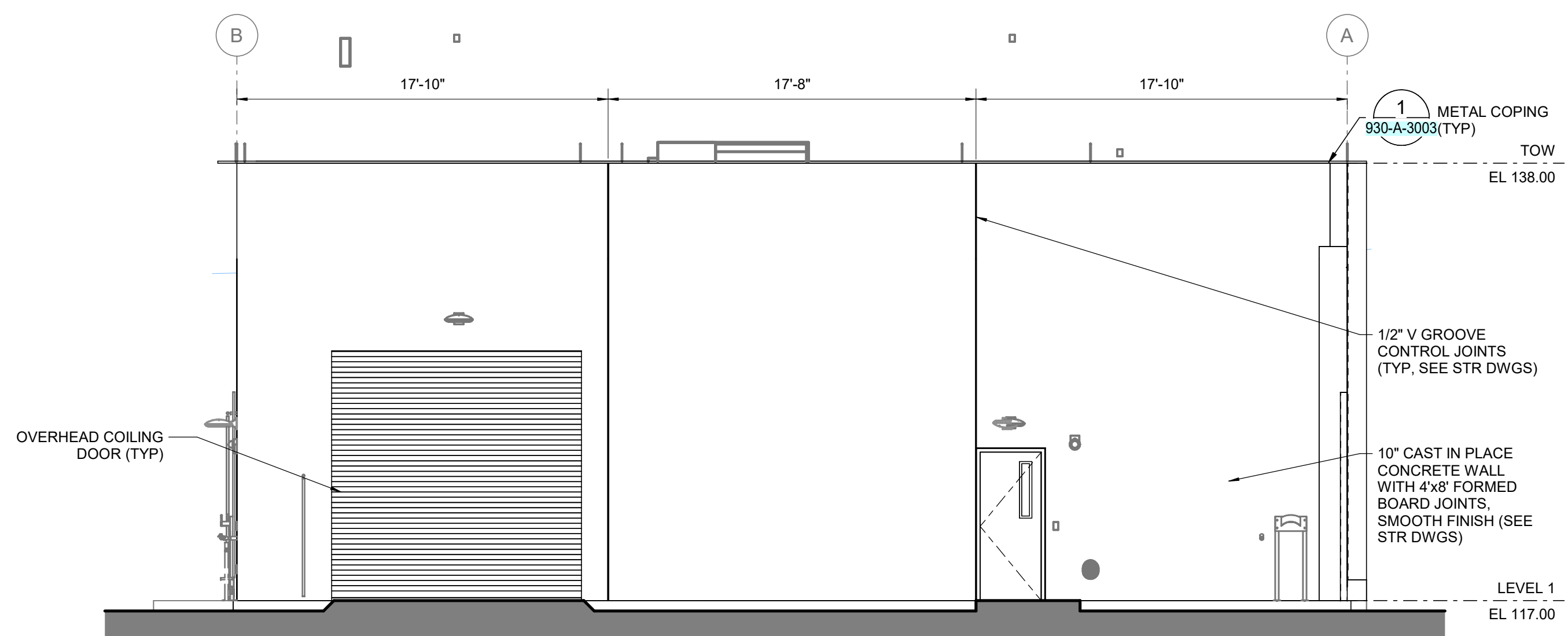
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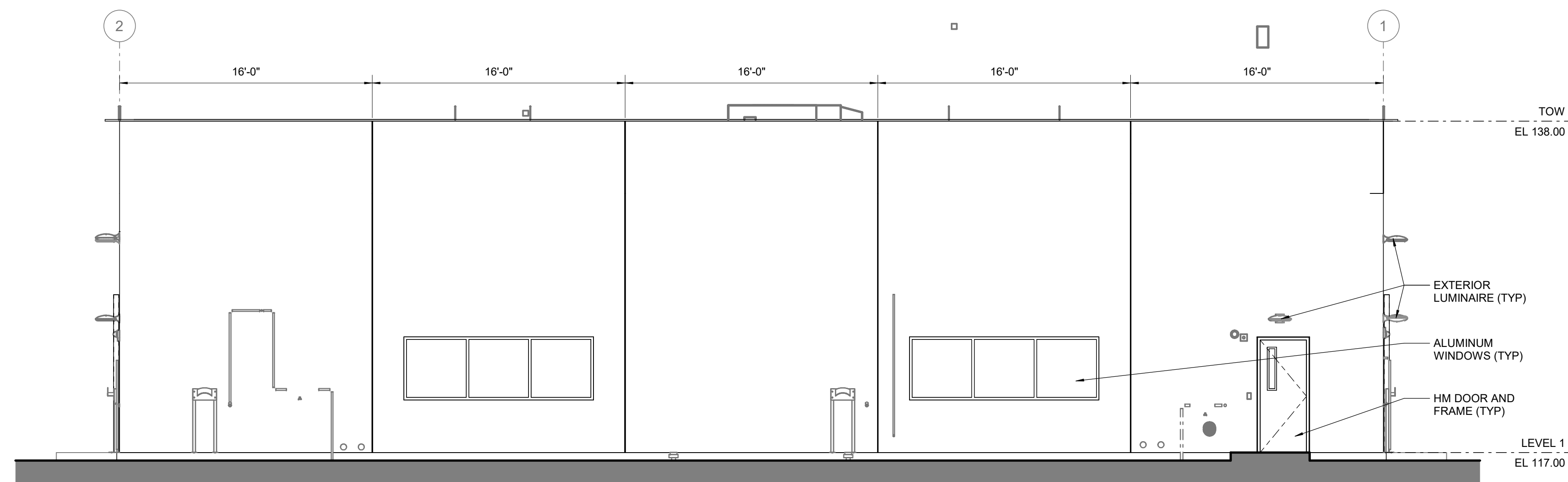
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ELEVATION DATUM  
NAVD88  
+100.00'





**NORTH ELEVATION**  
 3/16" = 1'-0"  
 1  
 940-A-1002  
 940-A-1003  
 940-A-1004



**EAST ELEVATION**  
 3/16" = 1'-0"  
 2  
 940-A-1002  
 940-A-1003  
 940-A-1004

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**TIF 940 MAINTENANCE SHOPS**  
**EXTERIOR ELEVATIONS 1 OF 2**

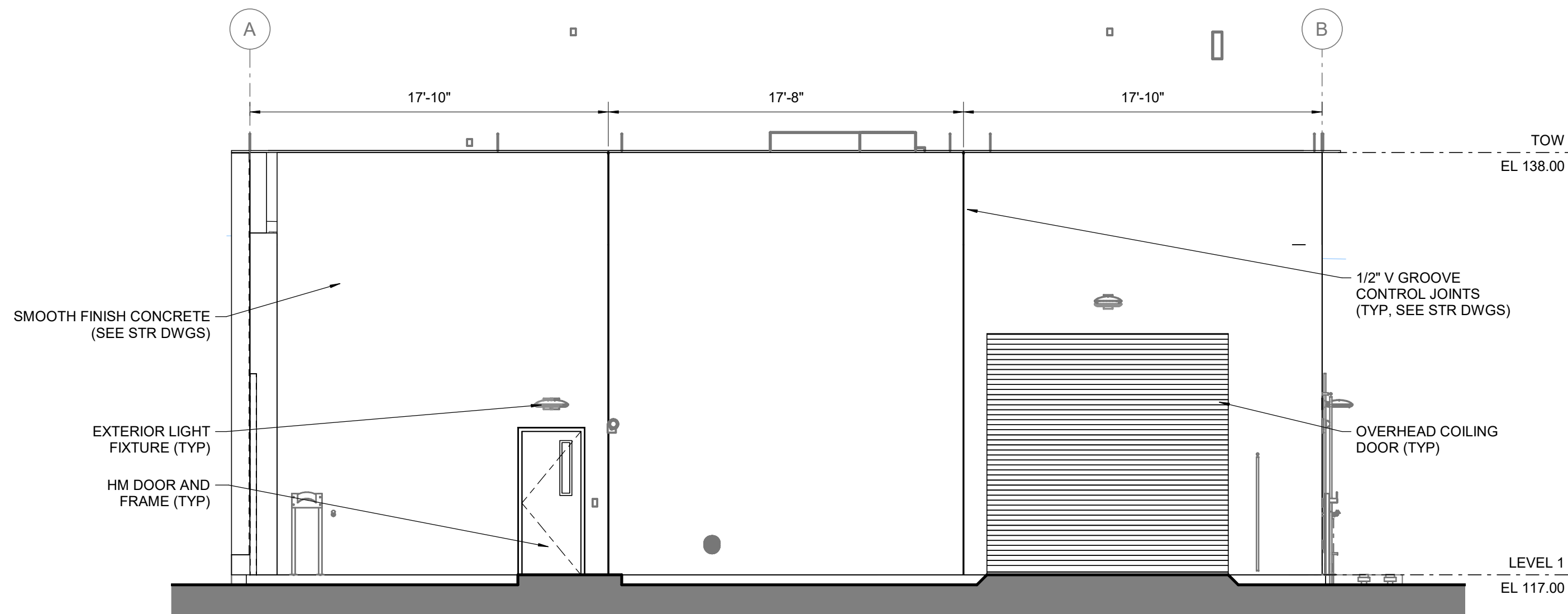
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ELEVATION DATUM  
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 +100.00'



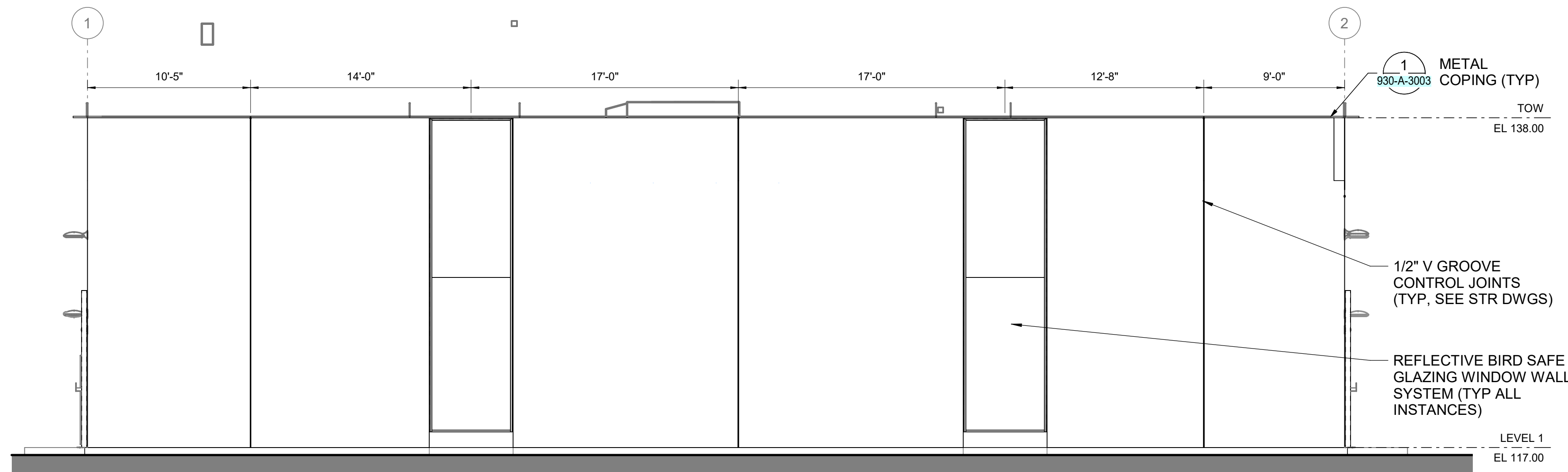


**SOUTH ELEVATION**

3/16" = 1'-0"

3

940-A-1002  
940-A-1003  
940-A-1004



**WEST ELEVATION**

3/16" = 1'-0"

4

940-A-1002  
940-A-1003  
940-A-1004

**CIVIC DESIGN REVIEW**



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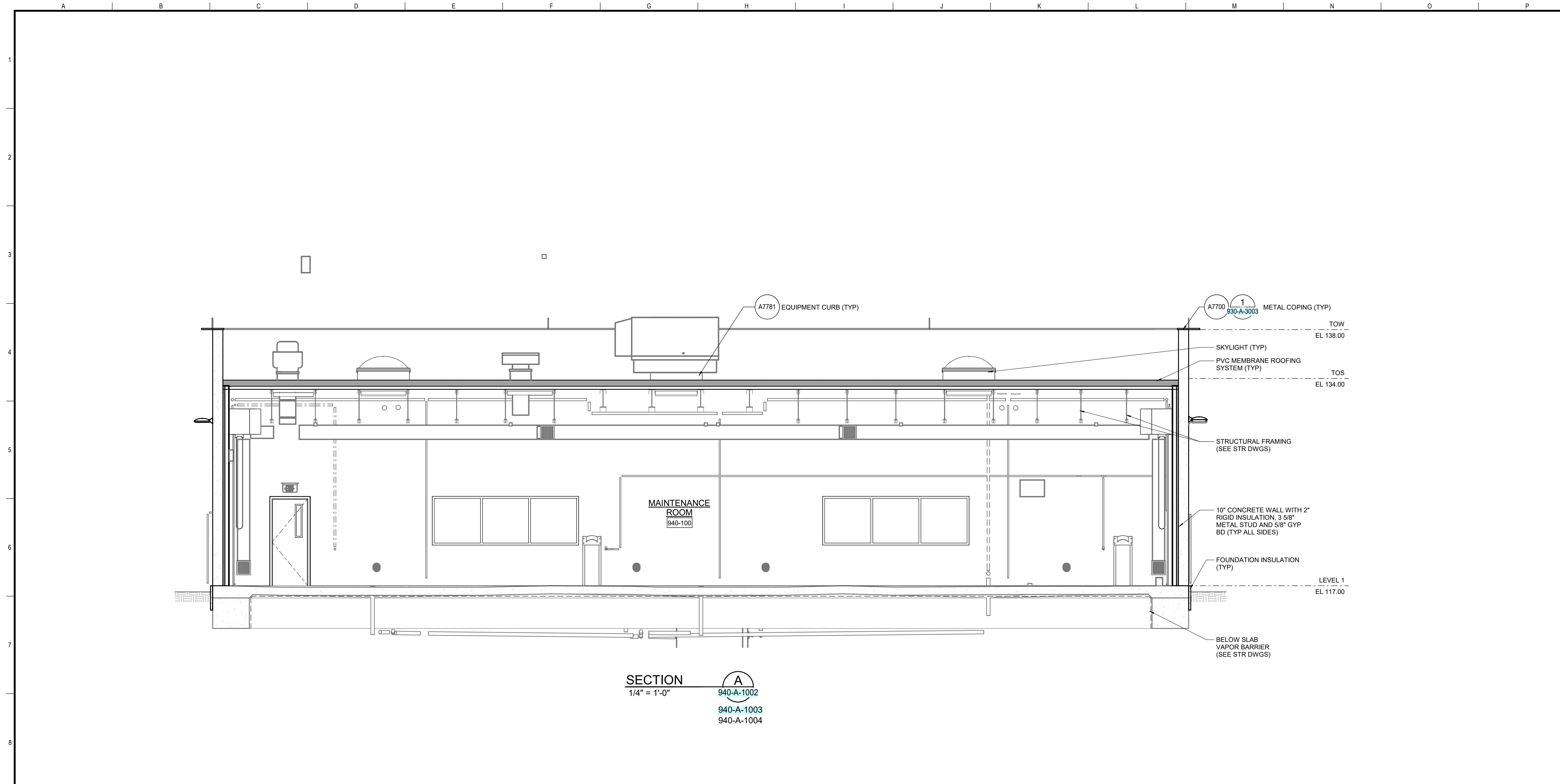
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TIF 940 MAINTENANCE SHOPS  
**EXTERIOR ELEVATIONS 2 OF 2**

CHECKED / APPROVED	DRAWN
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APPROVED	APPROVED
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PLAN NO. <b>940-A-2002</b>	DRAWING / FILE NO. <b>0</b>





**SECTION A**  
 1/4" = 1'-0"  
 940-A-1002  
 940-A-1003  
 940-A-1004

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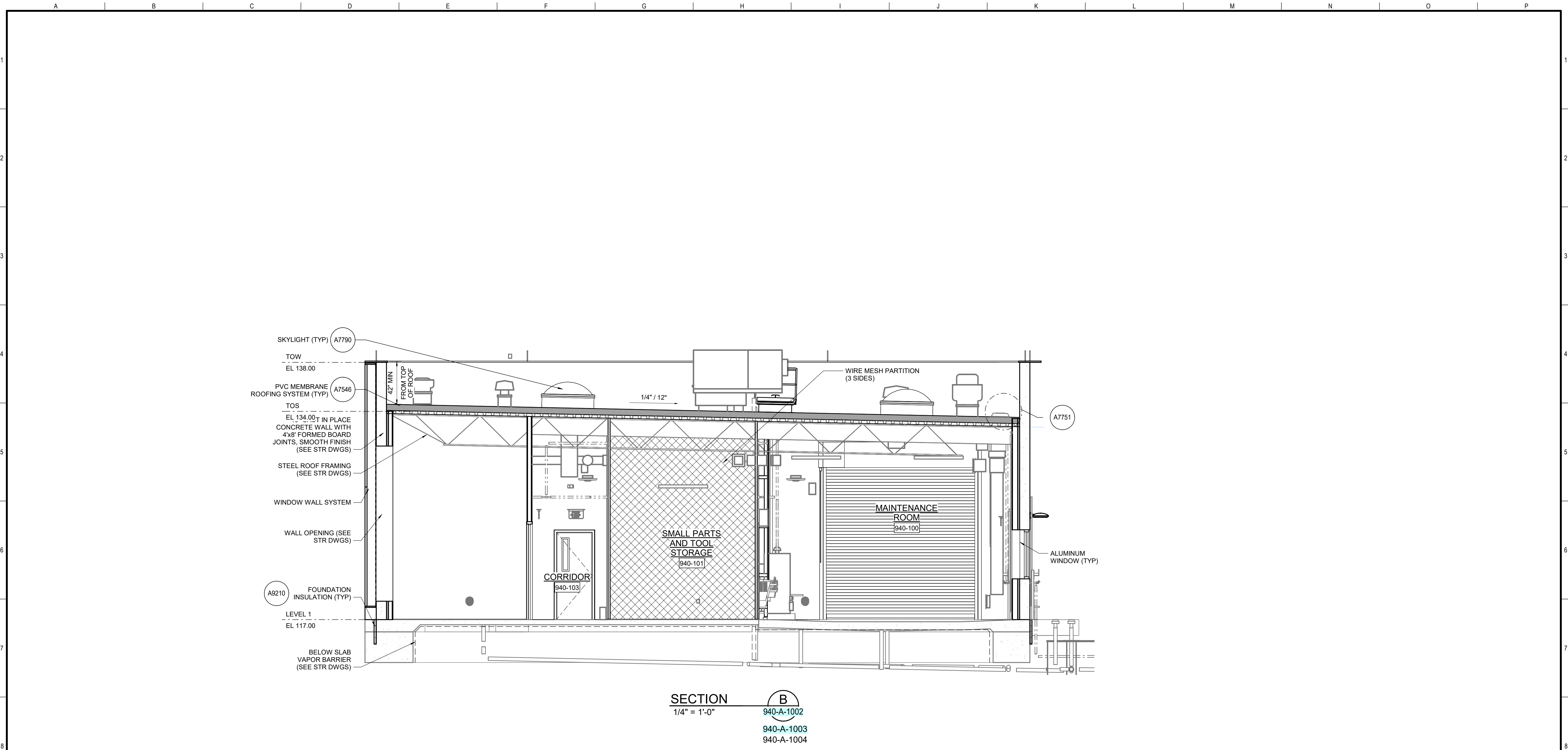
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TIF 940 MAINTENANCE SHOPS			
<b>SECTION 1 OF 2</b>			
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SECTION MANAGER	DESIGNED		
WWE OPERATIONS MANAGER	SCALE	DATE	
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PLAN NO.	DRAWING / FILE NO.	REVISION NO.	
<b>940-A-3001</b>		<b>0</b>	





**SECTION B**  
 1/4" = 1'-0"  
 940-A-1002  
 940-A-1003  
 940-A-1004

**CIVIC DESIGN REVIEW**

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APPROVED		CHECKED	

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ELEVATION DATUM  
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**CONTRACT NO. DB-132**

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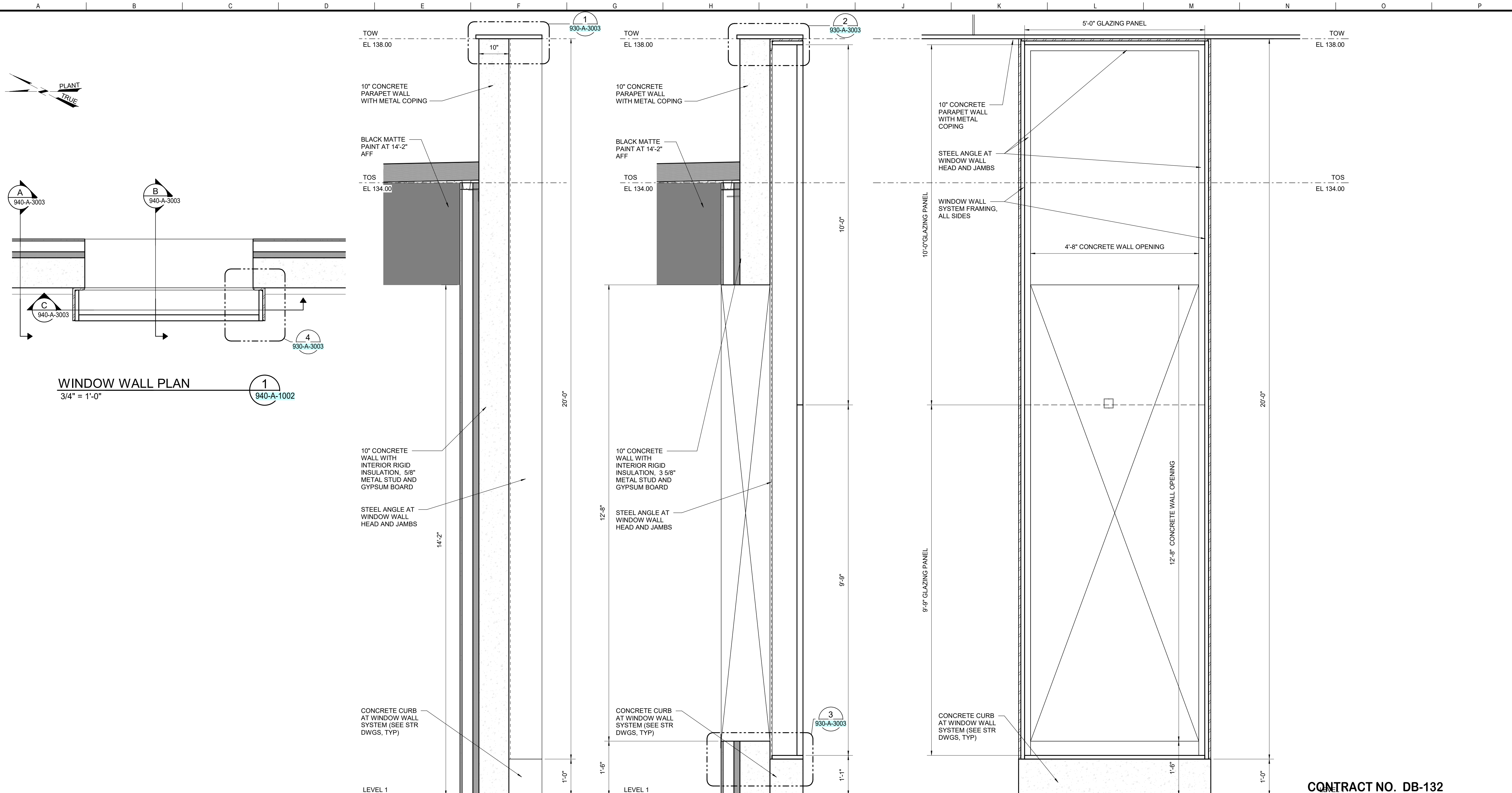
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**TIF 940 MAINTENANCE SHOPS**

**SECTION 2 OF 2**

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SECTION MANAGER	DESIGNED
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**WINDOW WALL PLAN**  
3/4" = 1'-0"

**WALL SECTION A**  
3/4" = 1'-0"

**WW SECTION B**  
3/4" = 1'-0"

**WW SYSTEM SECTION C**  
3/4" = 1'-0"

**CONTRACT NO. DB-132**

EL 117.00  
CITY AND COUNTY OF SAN FRANCISCO  
**PUBLIC UTILITIES COMMISSION**  
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TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY  
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY  
TIF 940 MAINTENANCE SHOPS

**WINDOW WALL PLAN AND SECTIONS**

**CIVIC DESIGN REVIEW**



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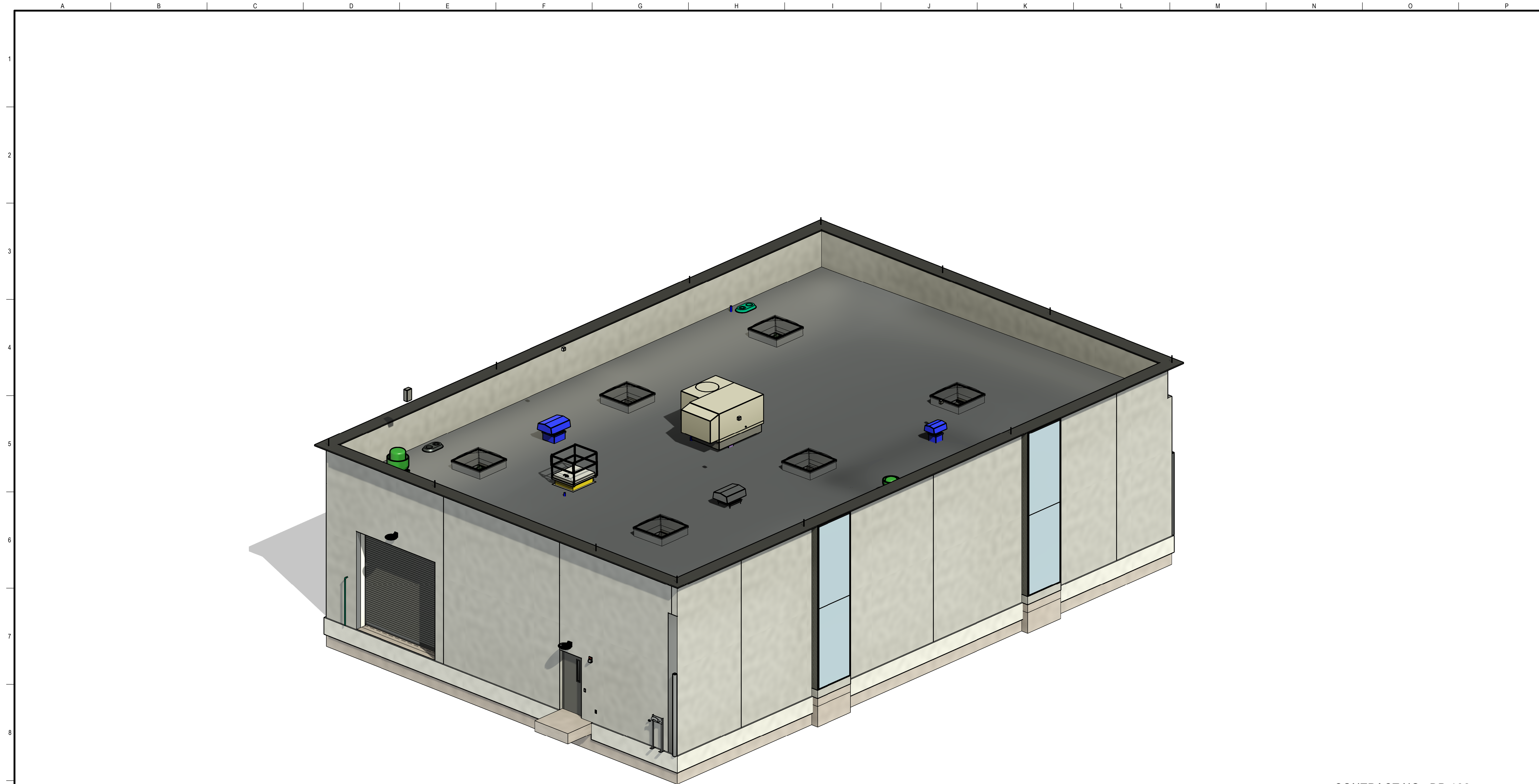
PROJECT ENGINEER	DRAWN	Author
PROJECT MANAGER	DESIGNED	Designer
APPROVED	CHECKED	Checker
APPROVER	CHECKER	

CHECKED / APPROVED	DRAWN	
SECTION MANAGER	DESIGNED	
WWE OPERATIONS MANAGER	SCALE	DATE
APPROVED	APPROVED	05/08/2024
MANAGER, ENGINEERING MANAGEMENT BUREAU	WWE ENGINEERING MANAGER	
PLAN NO.	DRAWING / FILE NO.	REVISION NO.
<b>940-A-3003</b>		<b>0</b>

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ELEVATION DATUM  
NAVD88  
+100.00'





ISOMETRIC VIEW  
NTS

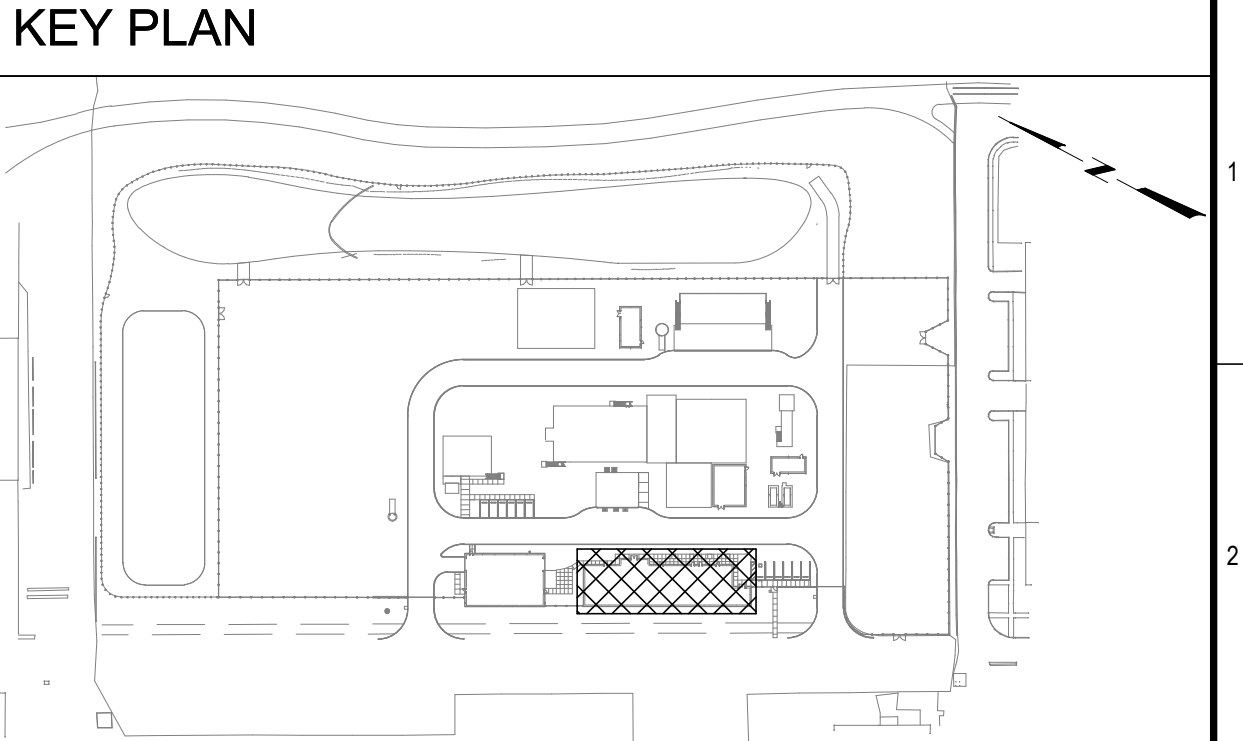
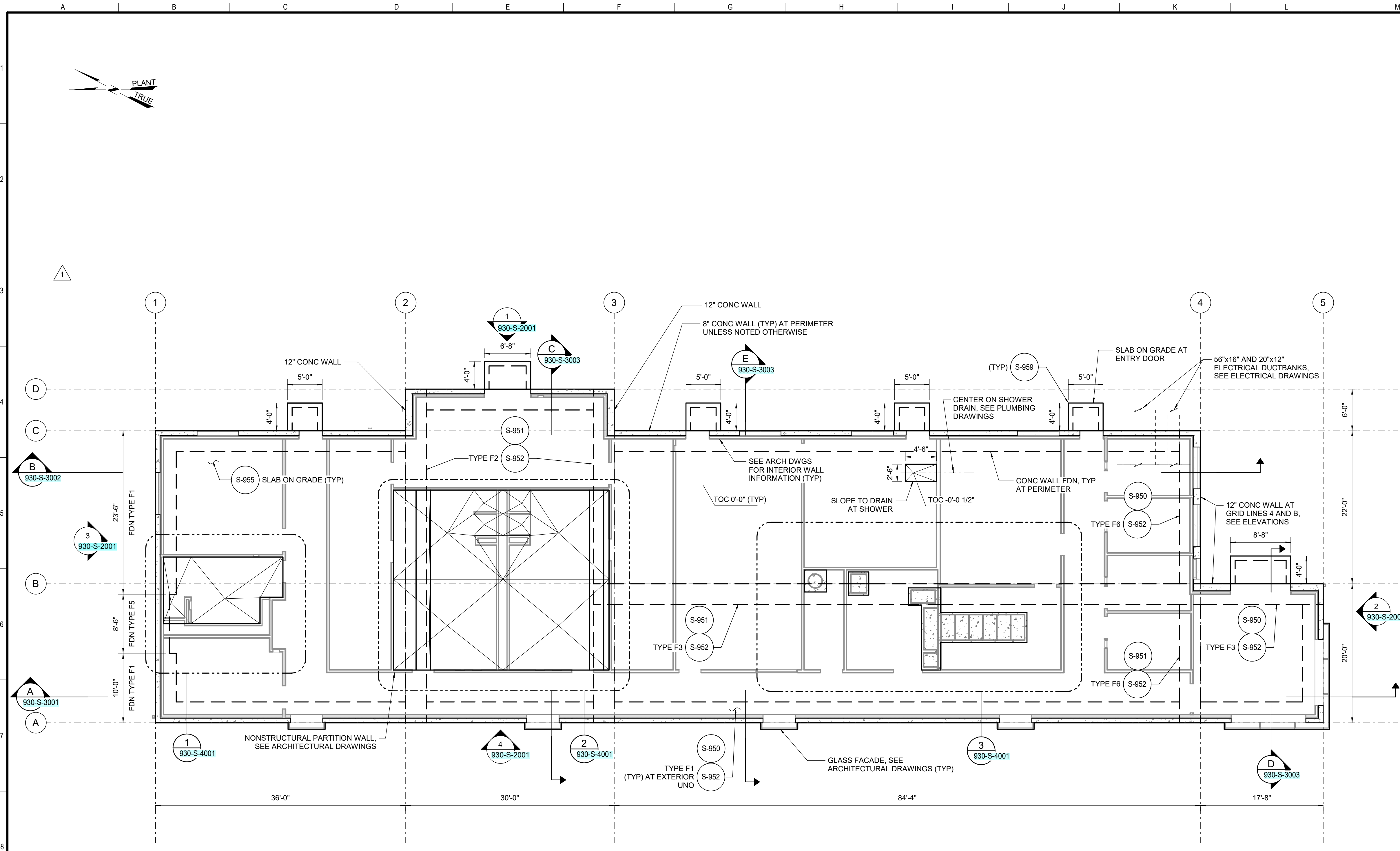
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ELEVATION  
DATUM  
NAVD88  
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<b>CIVIC DESIGN REVIEW</b>			
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PROJECT ENGINEER	B WONG	DRAWN	E NAVARRO
PROJECT MANAGER	T BROWN	DESIGNED	E NAVARRO
APPROVED		CHECKED	
NO.	DATE	DESCRIPTION	BY APPRD
REVISIONS			

<b>CONTRACT NO. DB-132</b>			
CITY AND COUNTY OF SAN FRANCISCO <b>PUBLIC UTILITIES COMMISSION</b> INFRASTRUCTURE DIVISION ENGINEERING MANAGEMENT BUREAU			
WASTEWATER ENTERPRISE TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY			
TIF 940 MAINTENANCE SHOPS			
<b>ISOMETRIC VIEW</b> FOR INFORMATION ONLY			
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SECTION MANAGER	DESIGNED		
WWE OPERATIONS MANAGER	SCALE	AS SHOWN	DATE
APPROVED	APPROVED	05/08/2024	
MANAGER, ENGINEERING MANAGEMENT BUREAU		WWE ENGINEERING MANAGER	
PLAN NO.	DRAWING / FILE NO.	REVISION NO.	
<b>940-A-9001</b>		<b>0</b>	





- GENERAL SHEET NOTES**
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO CONSTRUCTION, THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES.
  - FOR EQUIPMENT LOCATIONS SEE MECHANICAL, HVAC AND ELECTRICAL DRAWINGS. PROVIDE EQUIPMENT PAD PER DETAIL S-191 UNLESS NOTED OTHERWISE.
  - CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH EQUIPMENT MANUFACTURER FOR CONCRETE EQUIPMENT PAD SIZE, ELEVATION AND LOCATION. DIMENSIONS OF EQUIPMENT PAD SIZE TO TAKE INTO ACCOUNT EDGE DISTANCE REQUIREMENTS FOR EQUIPMENT ANCHORAGE DESIGN.
  - EQUIPMENT MANUFACTURER SHALL PROVIDE DRAWINGS AND CALCULATION FOR ANCHORAGE DESIGN STAMPED AND SIGNED BY CALIFORNIA REGISTERED CIVIL OR STRUCTURAL ENGINEER FOR REVIEW PRIOR TO POURING OF EQUIPMENT PADS.
  - SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ALL OPENINGS, PIPE AND CONDUIT PENETRATIONS, PIPE SUPPORTS, AND CONDUIT RUNS. PROVIDE ADDITIONAL REINFORCEMENT FOR OPENINGS PER DETAIL S-144.
  - ALL PIPING AND CONDUITS UNDER GRADE BEAM FOUNDATIONS SHALL BE ENCASED IN CONCRETE PER DETAIL S-171. PIPES AND CONDUITS WHICH DO NOT MEET THE MINIMUM SIZE OR COVER SPECIFIED IN DETAIL S-171 SHALL FOLLOW CLSM BACKFILL REQUIREMENTS PER DETAIL S-968. PIPING AND CONDUITS ROUTED THROUGH GRADE BEAM FOUNDATIONS SHALL FOLLOW DETAIL S-968.
  - SEE SPECIFICATIONS FOR EARTHWORKS, STRUCTURE EXCAVATION, BACK FILL, SUB-BASE AND VAPOR BARRIER.
  - CONTRACTOR TO SUBMIT SLAB ON GRADE CONTROL JOINT AND CONSTRUCTION JOINT LOCATIONS TO ENGINEER AND ARCHITECT FOR REVIEW PRIOR TO CONSTRUCTION IN CONFORMANCE WITH SPECIFICATION 03 32 00.
  - SEE ELEVATIONS FOR CONCRETE WALL CONTROL JOINT AND CONSTRUCTION JOINT LOCATIONS.
  - SEE DETAIL S-966 FOR CONCRETE GRADE BEAM CONSTRUCTION JOINTS. SUBMIT LOCATIONS OF CONSTRUCTION JOINTS TO ENGINEER FOR APPROVAL PRIOR TO POURING CONCRETE.
  - TOP OF CONCRETE (TOC) ELEVATIONS ARE RELATIVE TO OPERATION LEVEL ELEVATION OF 117.0'.

**FOUNDATION AND LEVEL 1 PLAN**  
1/8" = 1'-0"

**CIVIC DESIGN REVIEW**

**CONTRACT NO. DB-132**

CITY AND COUNTY OF SAN FRANCISCO  
**PUBLIC UTILITIES COMMISSION**  
INFRASTRUCTURE DIVISION  
ENGINEERING MANAGEMENT BUREAU

WASTEWATER ENTERPRISE  
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY  
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TIF 930 ADMINISTRATION BUILDING

**FOUNDATION AND LEVEL 1 PLAN**

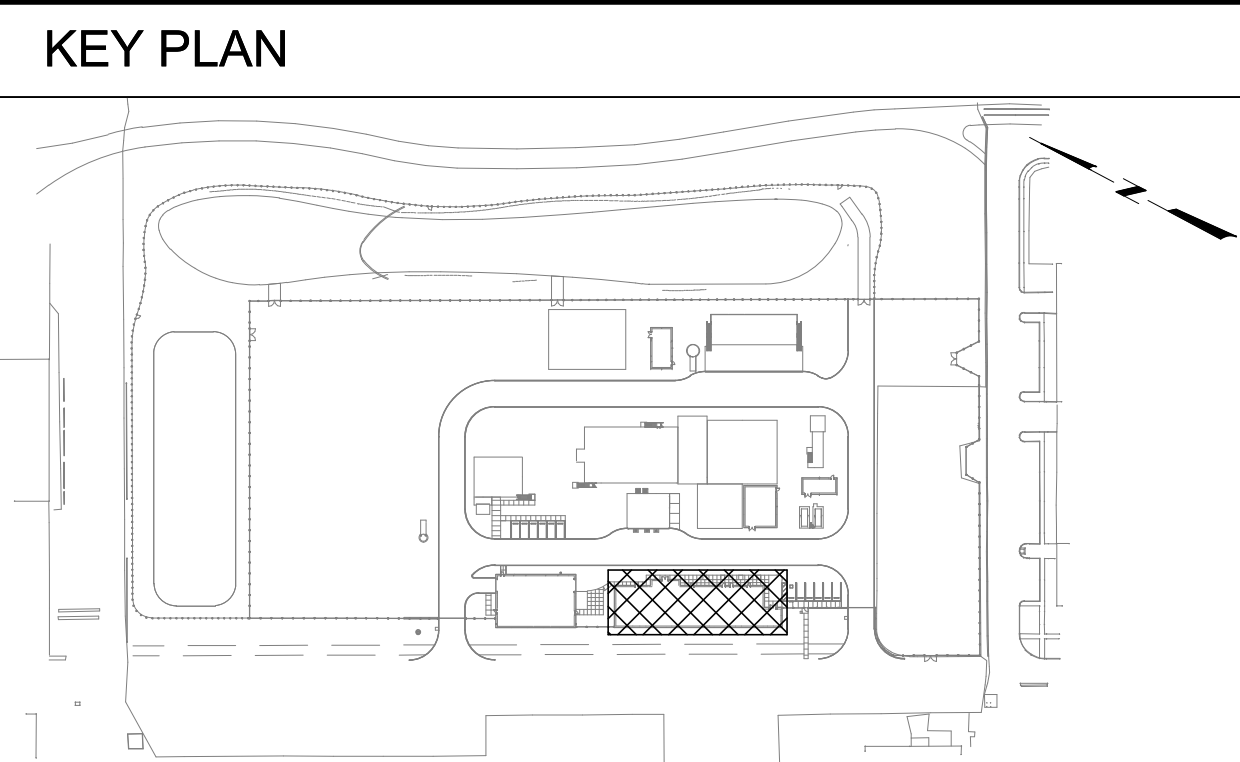
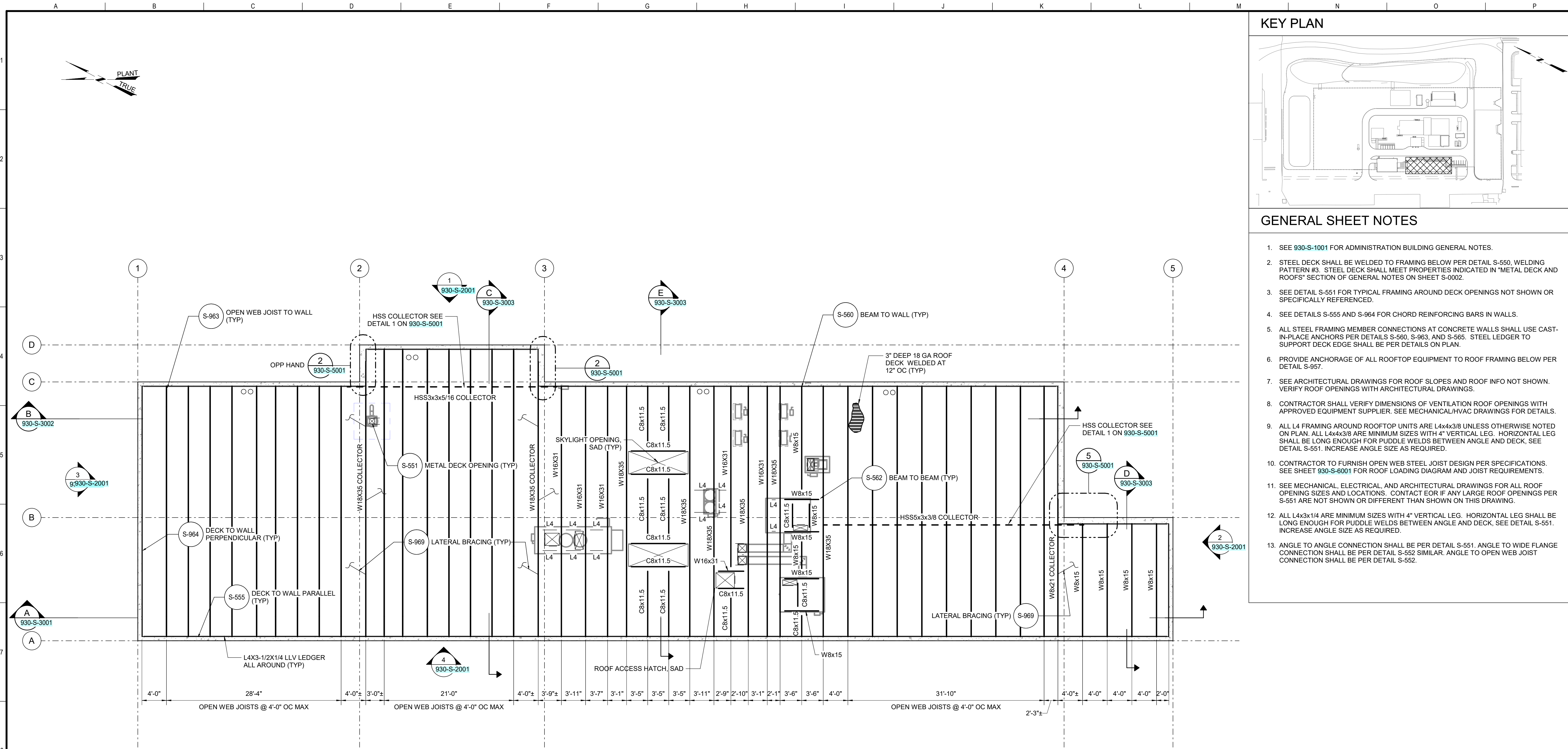
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PROJECT MANAGER	T BROWN	DESIGNED	W ZHANG
APPROVED		CHECKED	
NO.	DATE	DESCRIPTION	BY
1	05/08/24	REVISION	TW ET
2	04/16/24	REVISION	TW ET
REVISIONS			

CHECKED / APPROVED	DRAWN
SECTION MANAGER	DESIGNED
WWE OPERATIONS MANAGER	SCALE 1/8" = 1'-0" DATE 12/22/2023
APPROVED	APPROVED
MANAGER, ENGINEERING MANAGEMENT BUREAU	WWE ENGINEERING MANAGER
PLAN NO. <b>930-S-1001</b>	DRAWING / FILE NO.

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ELEVATION DATUM  
NAVD88  
+100.00'





- ### GENERAL SHEET NOTES
- SEE 930-S-1001 FOR ADMINISTRATION BUILDING GENERAL NOTES.
  - STEEL DECK SHALL BE WELDED TO FRAMING BELOW PER DETAIL S-550, WELDING PATTERN #3. STEEL DECK SHALL MEET PROPERTIES INDICATED IN "METAL DECK AND ROOFS" SECTION OF GENERAL NOTES ON SHEET S-002.
  - SEE DETAIL S-551 FOR TYPICAL FRAMING AROUND DECK OPENINGS NOT SHOWN OR SPECIFICALLY REFERENCED.
  - SEE DETAILS S-555 AND S-964 FOR CHORD REINFORCING BARS IN WALLS.
  - ALL STEEL FRAMING MEMBER CONNECTIONS AT CONCRETE WALLS SHALL USE CAST-IN-PLACE ANCHORS PER DETAILS S-560, S-963, AND S-565. STEEL LEDGER TO SUPPORT DECK EDGE SHALL BE PER DETAILS ON PLAN.
  - PROVIDE ANCHORAGE OF ALL ROOFTOP EQUIPMENT TO ROOF FRAMING BELOW PER DETAIL S-957.
  - SEE ARCHITECTURAL DRAWINGS FOR ROOF SLOPES AND ROOF INFO NOT SHOWN. VERIFY ROOF OPENINGS WITH ARCHITECTURAL DRAWINGS.
  - CONTRACTOR SHALL VERIFY DIMENSIONS OF VENTILATION ROOF OPENINGS WITH APPROVED EQUIPMENT SUPPLIER. SEE MECHANICAL/HVAC DRAWINGS FOR DETAILS.
  - ALL L4 FRAMING AROUND ROOFTOP UNITS ARE L4x4x3/8 UNLESS OTHERWISE NOTED ON PLAN. ALL L4x4x3/8 ARE MINIMUM SIZES WITH 4" VERTICAL LEG. HORIZONTAL LEG SHALL BE LONG ENOUGH FOR PUDDLE WELDS BETWEEN ANGLE AND DECK, SEE DETAIL S-551. INCREASE ANGLE SIZE AS REQUIRED.
  - CONTRACTOR TO FURNISH OPEN WEB STEEL JOIST DESIGN PER SPECIFICATIONS. SEE SHEET 930-S-6001 FOR ROOF LOADING DIAGRAM AND JOIST REQUIREMENTS.
  - SEE MECHANICAL, ELECTRICAL, AND ARCHITECTURAL DRAWINGS FOR ALL ROOF OPENING SIZES AND LOCATIONS. CONTACT EOR IF ANY LARGE ROOF OPENINGS PER S-551 ARE NOT SHOWN OR DIFFERENT THAN SHOWN ON THIS DRAWING.
  - ALL L4x3x1/4 ARE MINIMUM SIZES WITH 4" VERTICAL LEG. HORIZONTAL LEG SHALL BE LONG ENOUGH FOR PUDDLE WELDS BETWEEN ANGLE AND DECK, SEE DETAIL S-551. INCREASE ANGLE SIZE AS REQUIRED.
  - ANGLE TO ANGLE CONNECTION SHALL BE PER DETAIL S-551. ANGLE TO WIDE FLANGE CONNECTION SHALL BE PER DETAIL S-552. ANGLE TO OPEN WEB JOIST CONNECTION SHALL BE PER DETAIL S-552.

**ROOF PLAN**  
1/8" = 1'-0"

**CIVIC DESIGN REVIEW**

**CONTRACT NO. DB-132**

CITY AND COUNTY OF SAN FRANCISCO  
**PUBLIC UTILITIES COMMISSION**  
INFRASTRUCTURE DIVISION  
ENGINEERING MANAGEMENT BUREAU  
WASTEWATER ENTERPRISE  
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY  
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TIF 930 ADMINISTRATION BUILDING

**ROOF PLAN**

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PROJECT MANAGER	T BROWN	DESIGNED	W ZHANG
APPROVED		CHECKED	
NO.	DATE	DESCRIPTION	BY
REVISIONS			

CHECKED / APPROVED	DRAWN
SECTION MANAGER	DESIGNED
WWE OPERATIONS MANAGER	SCALE: 1/8" = 1'-0" DATE: 05/08/2024
APPROVED	APPROVED
MANAGER, ENGINEERING MANAGEMENT BUREAU	WWE ENGINEERING MANAGER
PLAN NO. <b>930-S-1002</b>	DRAWING / FILE NO. <b>0</b>

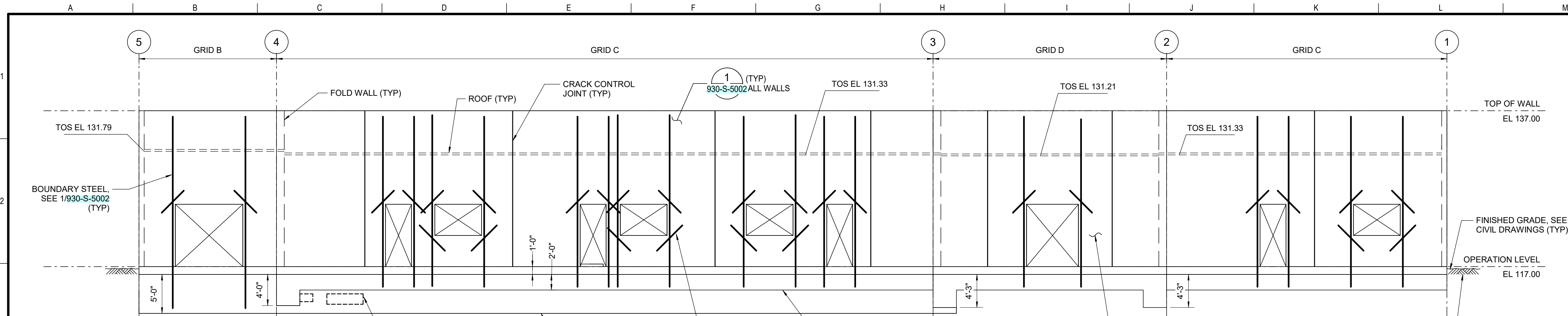
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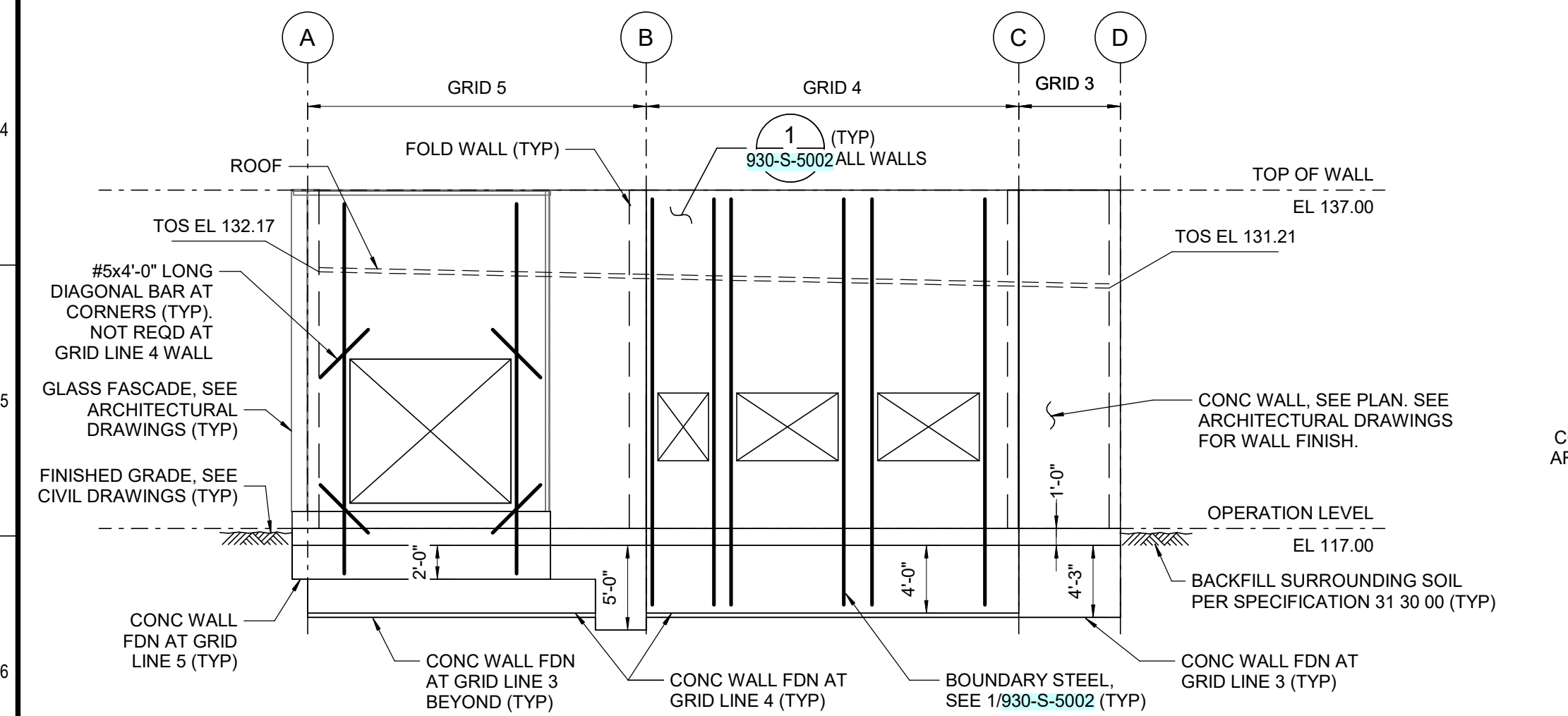


**GENERAL SHEET NOTES**

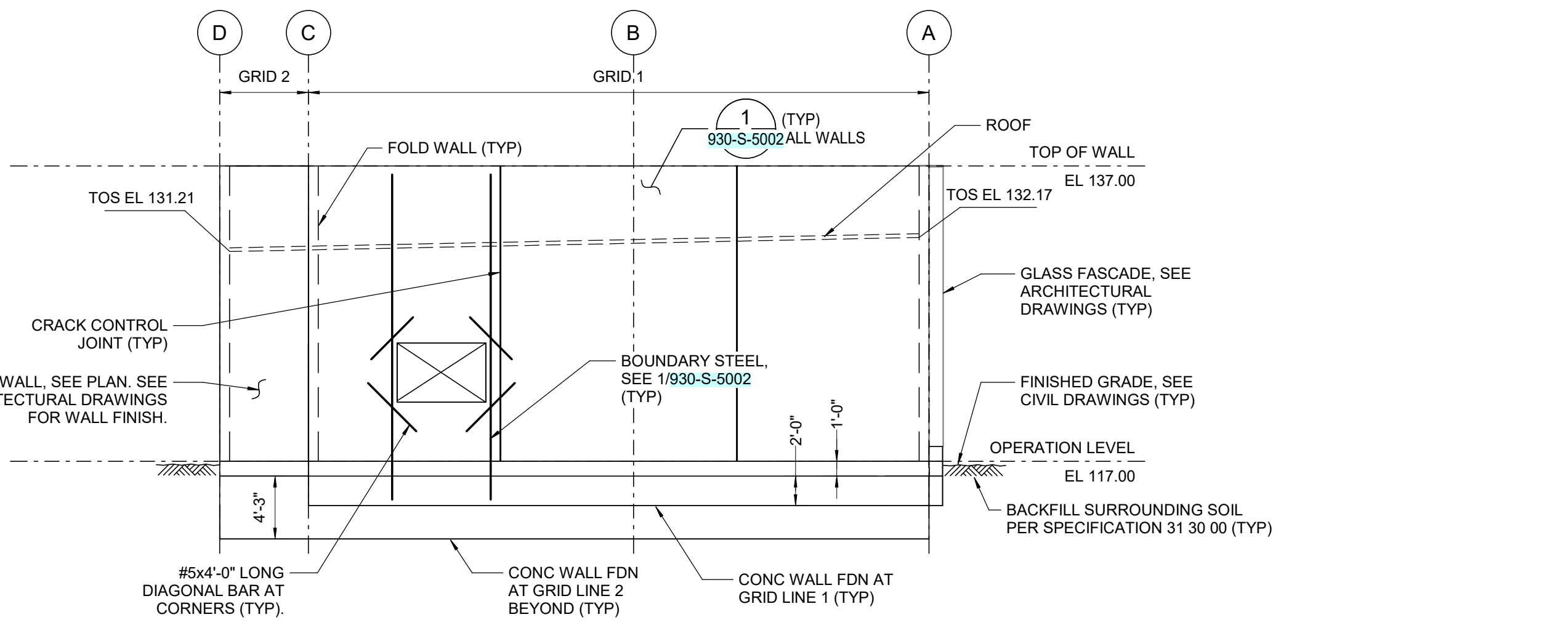
- SEE 930-S-1001 FOR ADMINISTRATION BUILDING GENERAL NOTES.
- CONTRACTOR'S OPTION TO INCLUDE VERTICAL CONSTRUCTION JOINT AT ANY CRACK CONTROL JOINT LOCATION SHOWN UNLESS NOTED OTHERWISE. HORIZONTAL CONSTRUCTION JOINTS ARE NOT PERMITTED IN WALLS. SUBMIT LOCATIONS OF CONSTRUCTION JOINTS TO ENGINEER AND ARCHITECT FOR REVIEW PRIOR TO CONSTRUCTION.
- CONSTRUCTION JOINTS IN WALLS SHALL BE PER DETAIL S-122/S-124 WITH ALL HORIZONTAL BARS CONTINUOUS THROUGH JOINT.
- SEE DETAIL S-958 FOR HEADER BEAMS IN CONCRETE WALLS.
- BOUNDARY STEEL AT WALL INTERSECTIONS NOT SHOWN FOR CLARITY. SEE DETAIL 1/930-S-5002.



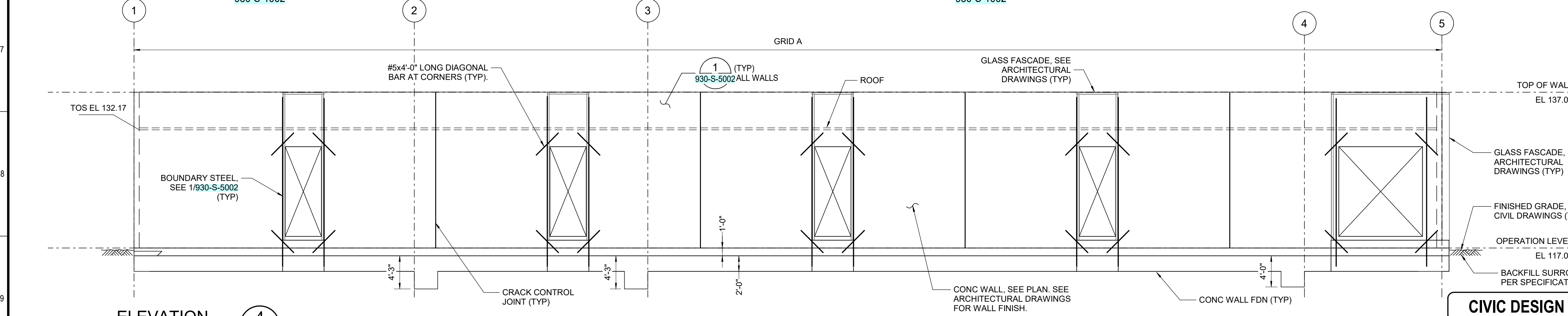
**ELEVATION 1**  
1/8" = 1'-0"  
930-S-1001  
930-S-1002



**ELEVATION 2**  
1/8" = 1'-0"  
930-S-1001  
930-S-1002



**ELEVATION 3**  
1/8" = 1'-0"  
930-S-1001  
930-S-1002



**ELEVATION 4**  
1/8" = 1'-0"  
930-S-1001  
930-S-1002

**CIVIC DESIGN REVIEW**

**CONTRACT NO. DB-132**

CITY AND COUNTY OF SAN FRANCISCO  
**PUBLIC UTILITIES COMMISSION**  
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WASTEWATER ENTERPRISE  
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TIF 930 ADMINISTRATION BUILDING

**SHEAR WALL ELEVATIONS**

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PROJECT MANAGER	T BROWN	DESIGNED	W ZHANG
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NO.	DATE	DESCRIPTION	BY

CHECKED / APPROVED	DRAWN
SECTION MANAGER	DESIGNED
WWE OPERATIONS MANAGER	SCALE 1/8" = 1'-0" DATE 05/08/2024
APPROVED	APPROVED
MANAGER, ENGINEERING MANAGEMENT BUREAU	WWE ENGINEERING MANAGER
PLAN NO. <b>930-S-2001</b>	DRAWING / FILE NO. <b>0</b>

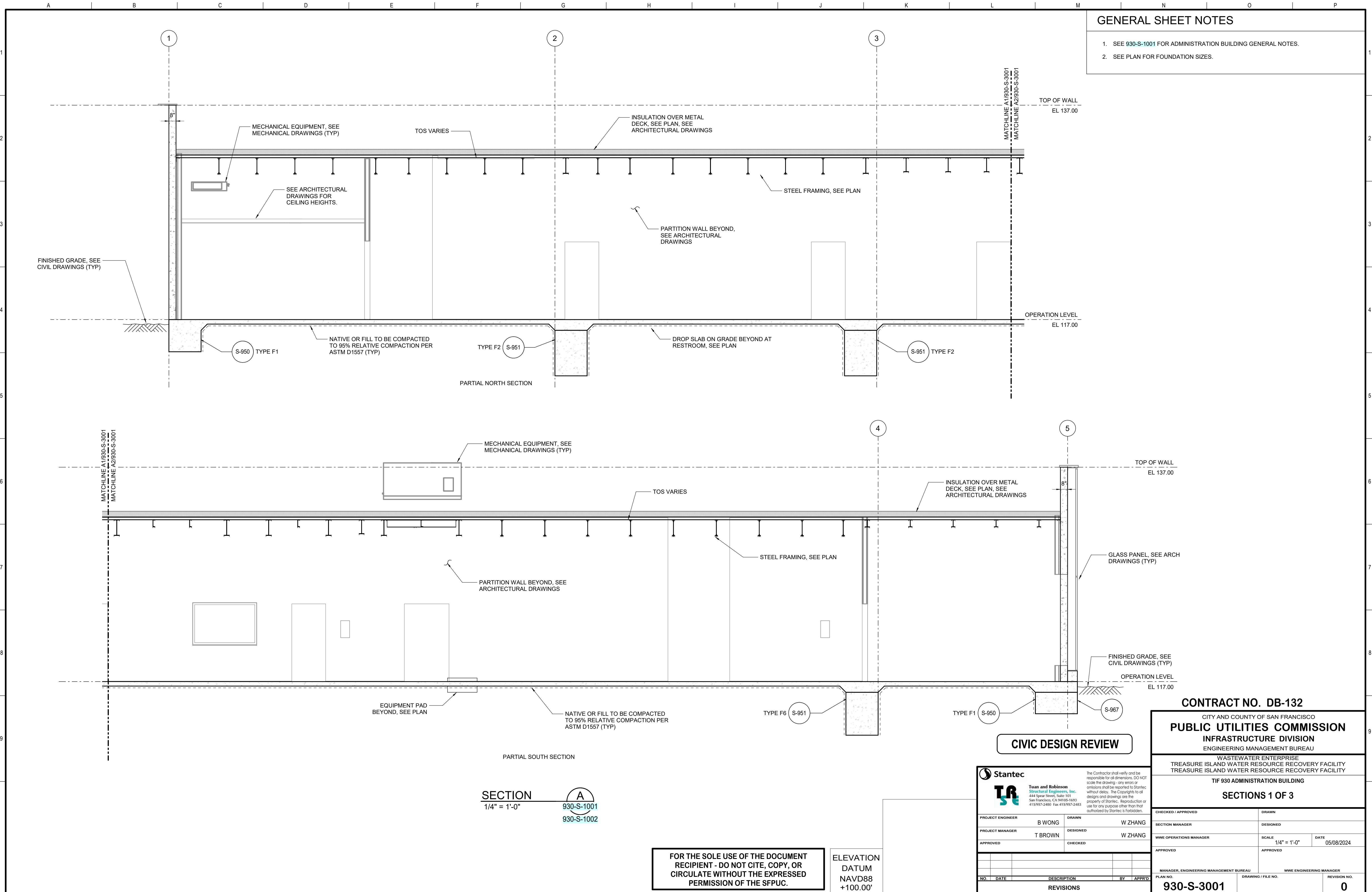
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ELEVATION DATUM  
NAVD88  
+100.00'



**GENERAL SHEET NOTES**

- SEE 930-S-1001 FOR ADMINISTRATION BUILDING GENERAL NOTES.
- SEE PLAN FOR FOUNDATION SIZES.



**SECTION A**  
 1/4" = 1'-0"  
 930-S-1001  
 930-S-1002

**CIVIC DESIGN REVIEW**

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**ELEVATION DATUM**  
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 +100.00'

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PROJECT MANAGER	T BROWN	DESIGNED	W ZHANG
APPROVED		CHECKED	
NO.	DATE	DESCRIPTION	BY
REVISIONS			

**CONTRACT NO. DB-132**

CITY AND COUNTY OF SAN FRANCISCO  
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WASTEWATER ENTERPRISE  
 TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY  
 TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY  
 TIF 930 ADMINISTRATION BUILDING

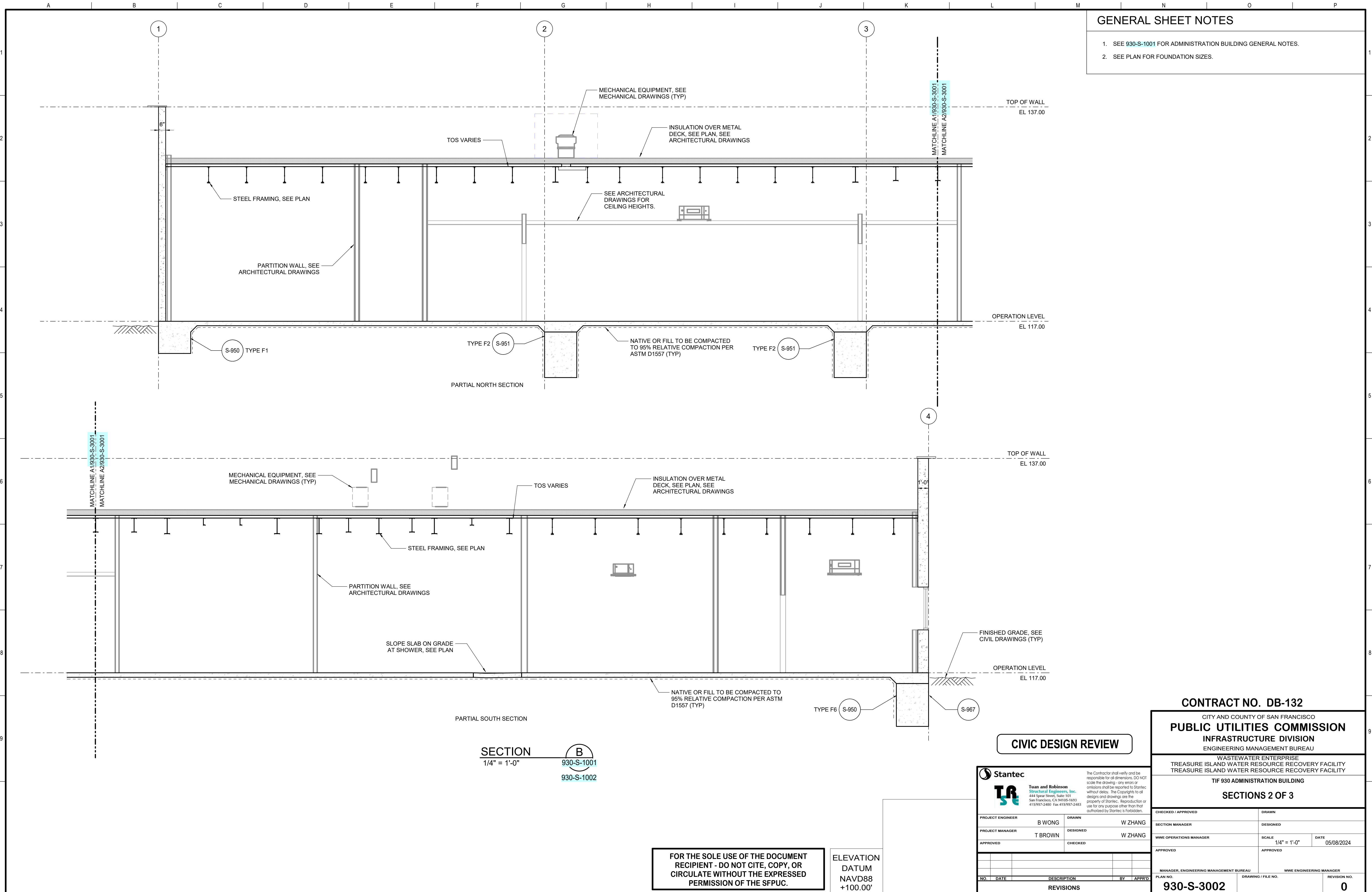
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CHECKED / APPROVED	DRAWN
SECTION MANAGER	DESIGNED
WWE OPERATIONS MANAGER	SCALE 1/4" = 1'-0" DATE 05/08/2024
APPROVED	APPROVED
MANAGER, ENGINEERING MANAGEMENT BUREAU	WWE ENGINEERING MANAGER
PLAN NO. <b>930-S-3001</b>	DRAWING / FILE NO. <b>0</b>



**GENERAL SHEET NOTES**

- SEE 930-S-1001 FOR ADMINISTRATION BUILDING GENERAL NOTES.
- SEE PLAN FOR FOUNDATION SIZES.



**SECTION B**  
 1/4" = 1'-0"  
 930-S-1001  
 930-S-1002

**CIVIC DESIGN REVIEW**

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PROJECT ENGINEER	B WONG	DRAWN	W ZHANG
PROJECT MANAGER	T BROWN	DESIGNED	W ZHANG
APPROVED		CHECKED	
NO.	DATE	DESCRIPTION	BY
REVISIONS			

**CONTRACT NO. DB-132**  
 CITY AND COUNTY OF SAN FRANCISCO  
**PUBLIC UTILITIES COMMISSION**  
 INFRASTRUCTURE DIVISION  
 ENGINEERING MANAGEMENT BUREAU  
 WASTEWATER ENTERPRISE  
 TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY  
 TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY  
**TIF 930 ADMINISTRATION BUILDING**  
**SECTIONS 2 OF 3**

CHECKED / APPROVED	DRAWN
SECTION MANAGER	DESIGNED
WWE OPERATIONS MANAGER	SCALE 1/4" = 1'-0" DATE 05/08/2024
APPROVED	APPROVED
MANAGER, ENGINEERING MANAGEMENT BUREAU	WWE ENGINEERING MANAGER
PLAN NO. <b>930-S-3002</b>	DRAWING / FILE NO. <b>0</b>

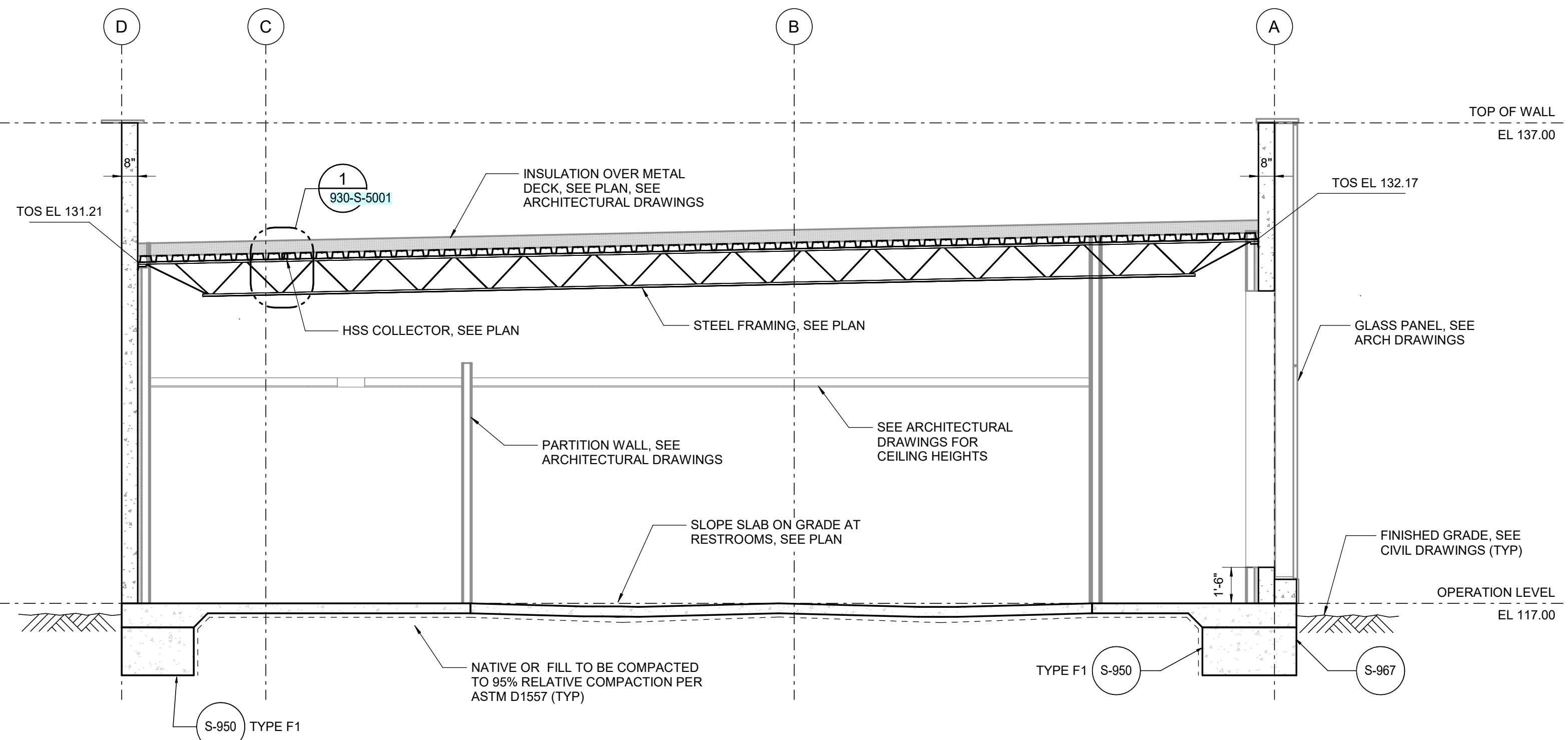
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ELEVATION DATUM  
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 +100.00'

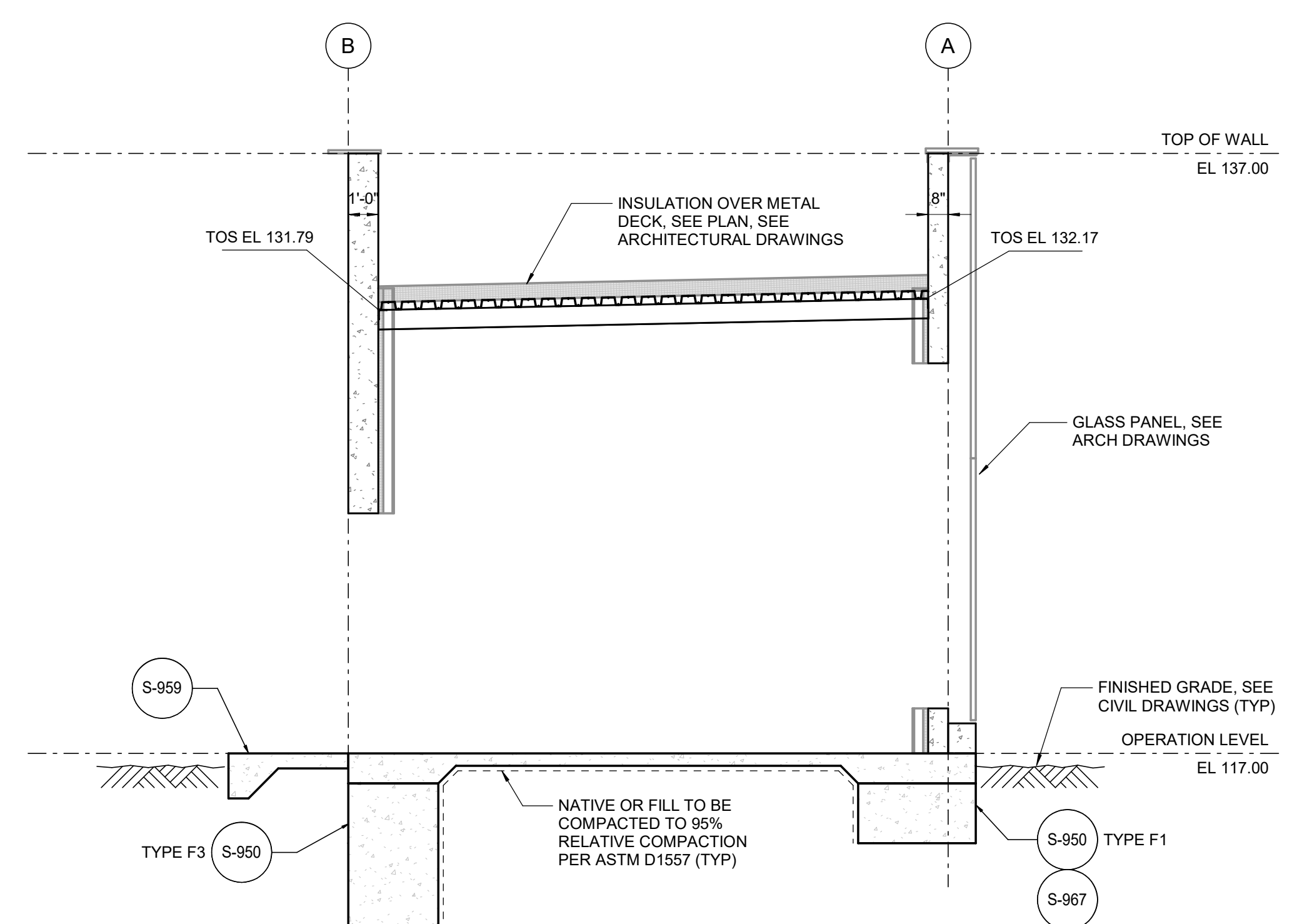


**GENERAL SHEET NOTES**

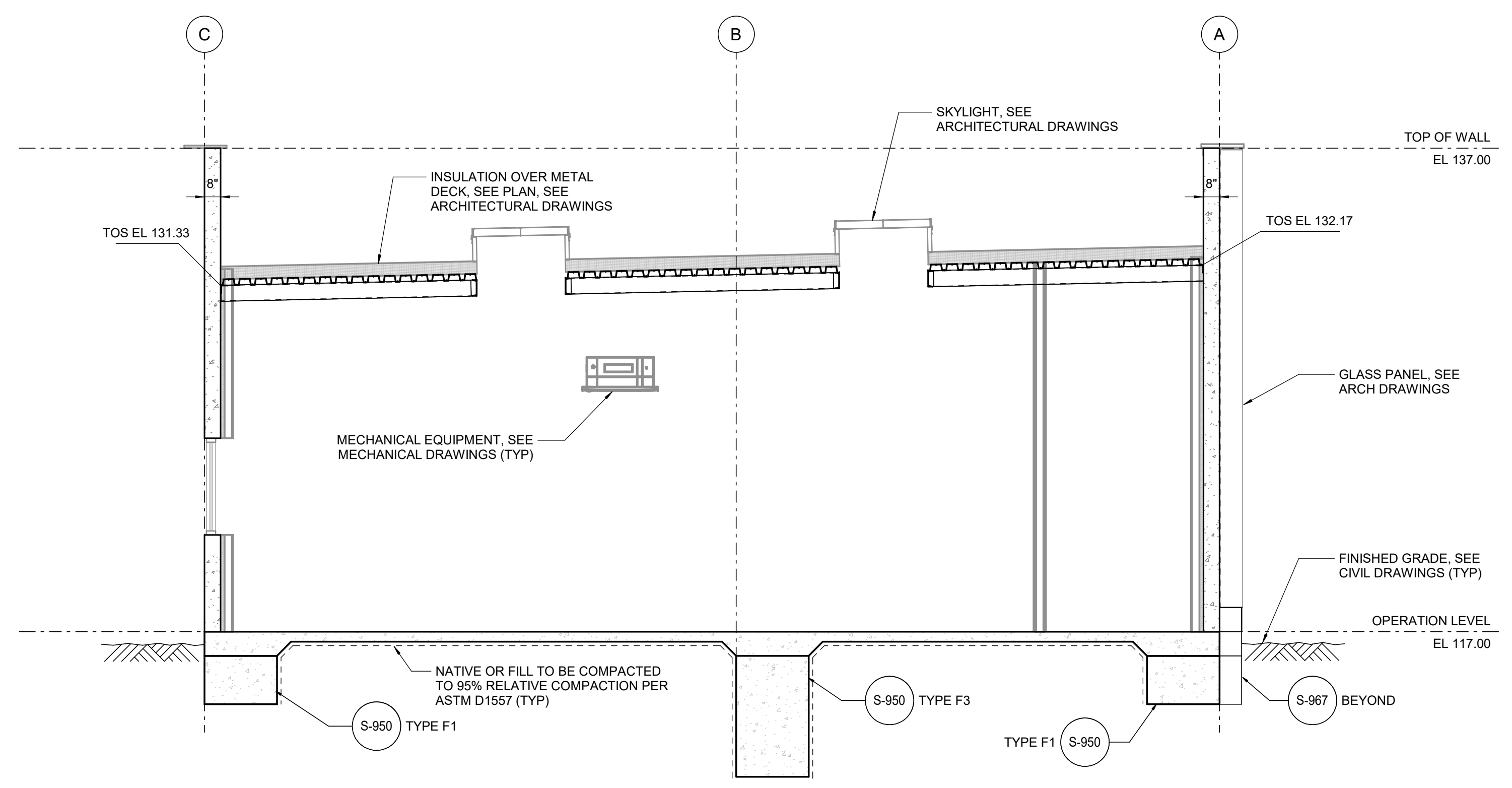
- SEE 930-S-1001 FOR ADMINISTRATION BUILDING GENERAL NOTES.
- SEE PLAN FOR FOUNDATION SIZES.



**SECTION C**  
1/4" = 1'-0"  
930-S-1001  
930-S-1002



**SECTION D**  
1/4" = 1'-0"  
930-S-1001  
930-S-1002



**SECTION E**  
1/4" = 1'-0"  
930-S-1001  
930-S-1002

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ELEVATION DATUM  
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**CIVIC DESIGN REVIEW**

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PROJECT MANAGER	T BROWN	DESIGNED	W ZHANG
APPROVED		CHECKED	
NO.	DATE	DESCRIPTION	BY
REVISIONS			

**CONTRACT NO. DB-132**

CITY AND COUNTY OF SAN FRANCISCO  
**PUBLIC UTILITIES COMMISSION**  
INFRASTRUCTURE DIVISION  
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WASTEWATER ENTERPRISE  
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY  
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY  
TIF 930 ADMINISTRATION BUILDING

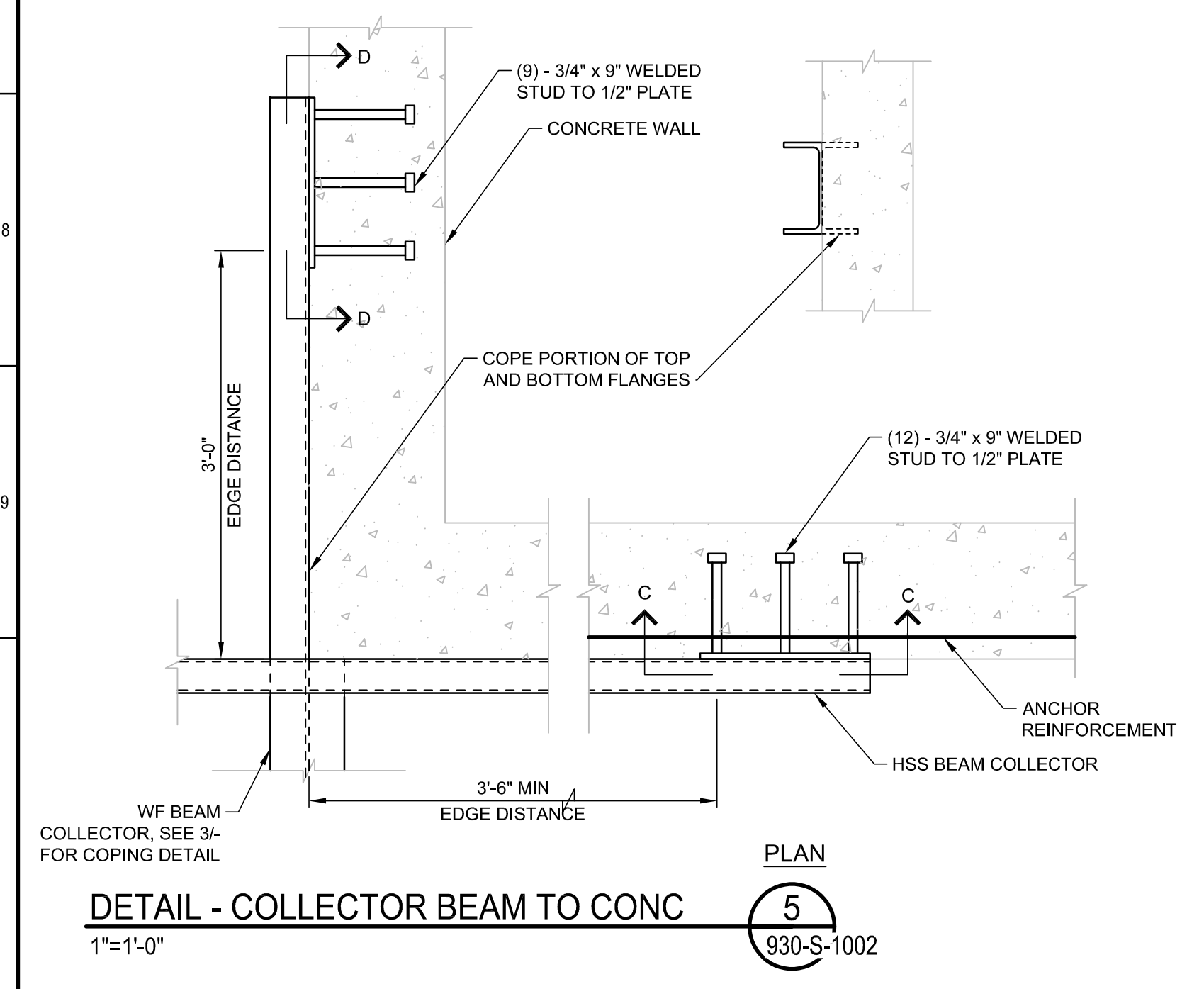
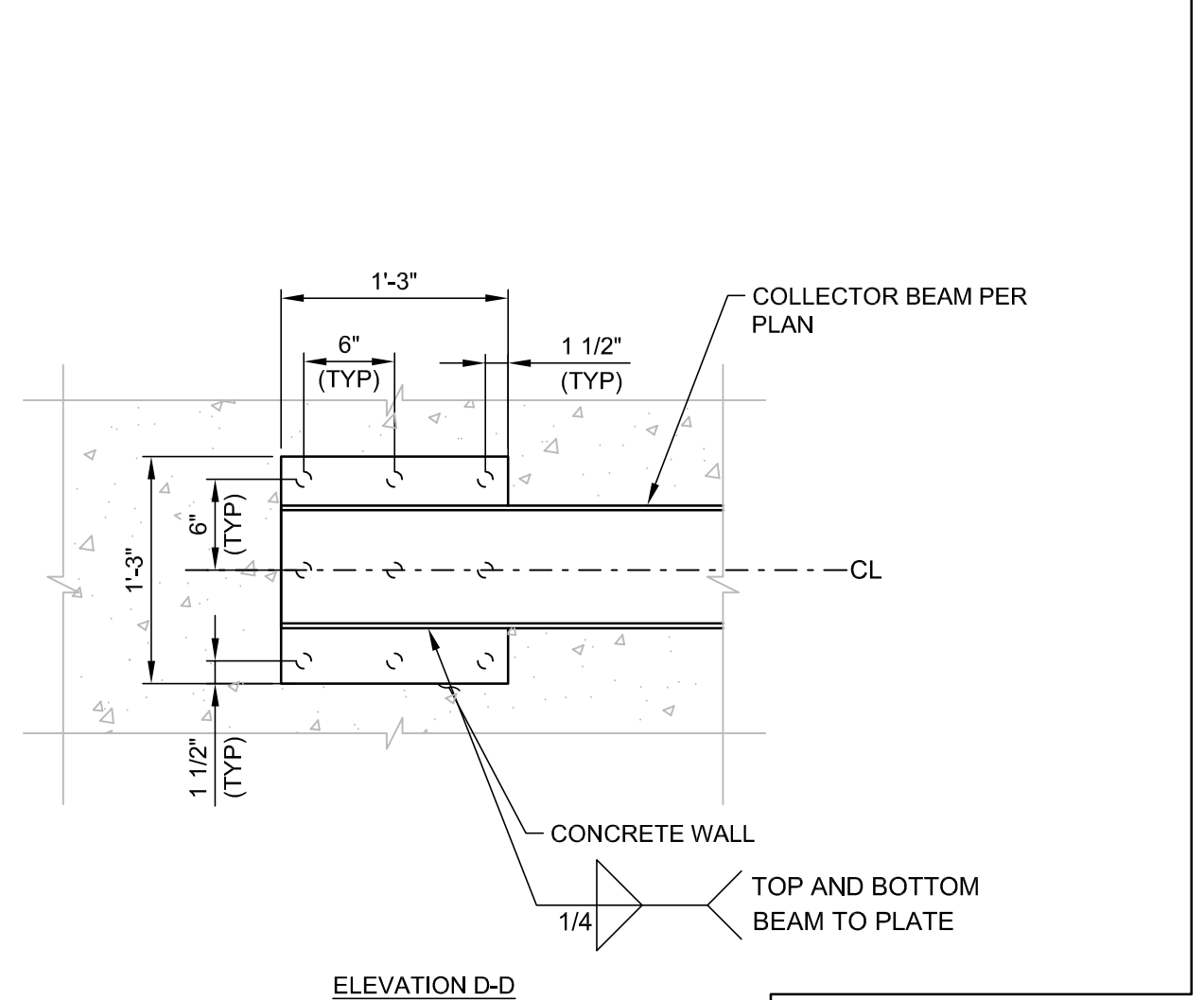
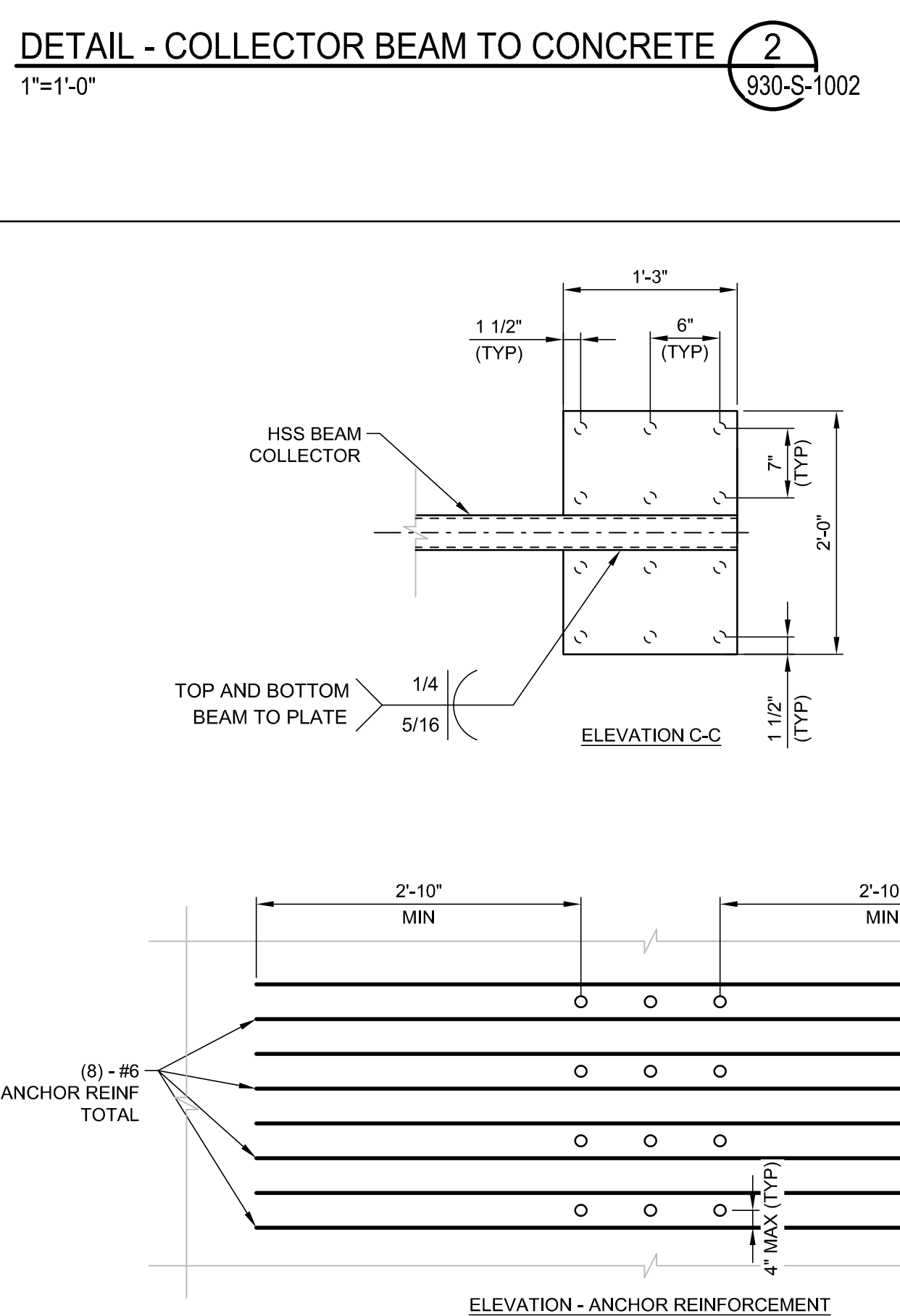
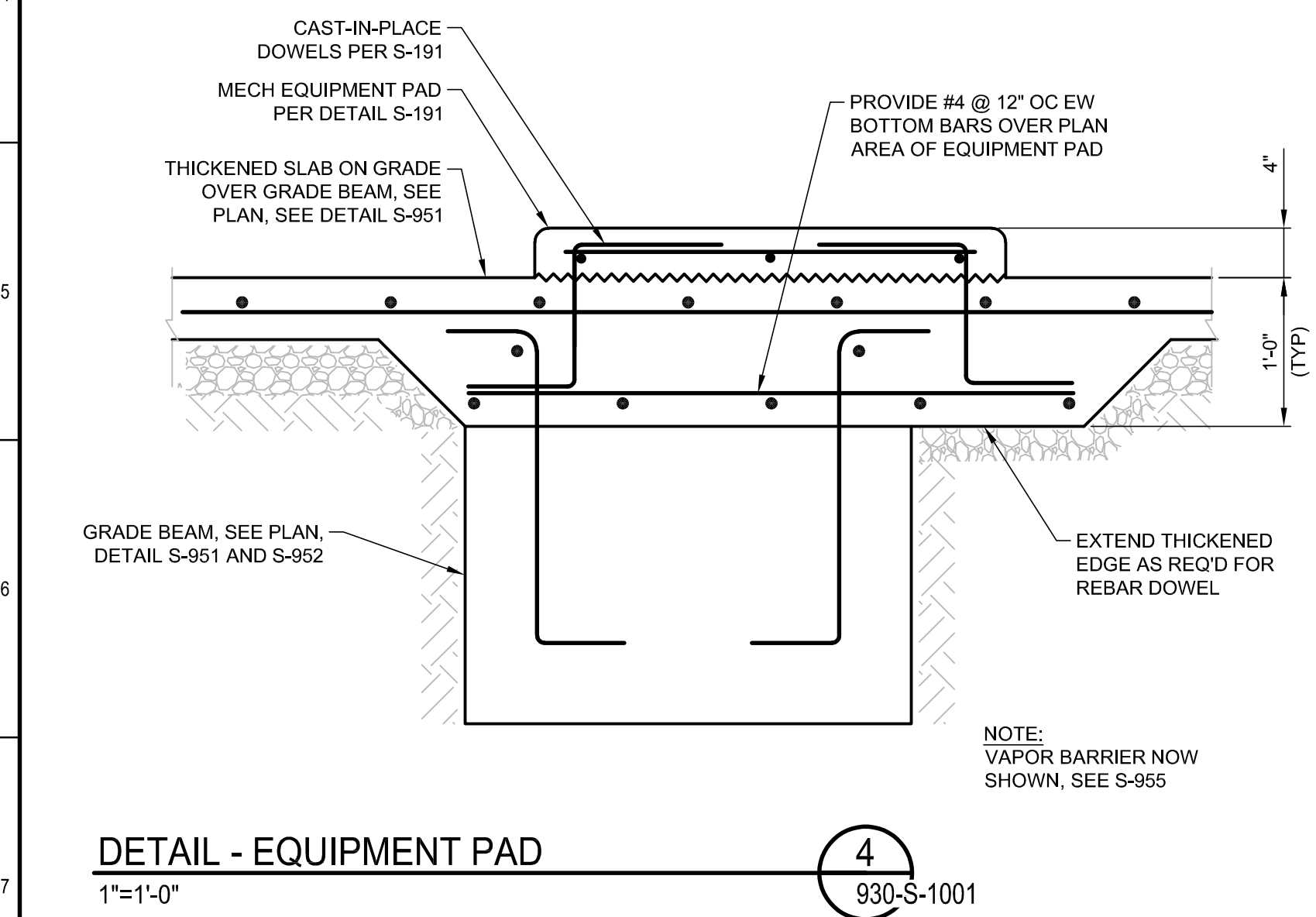
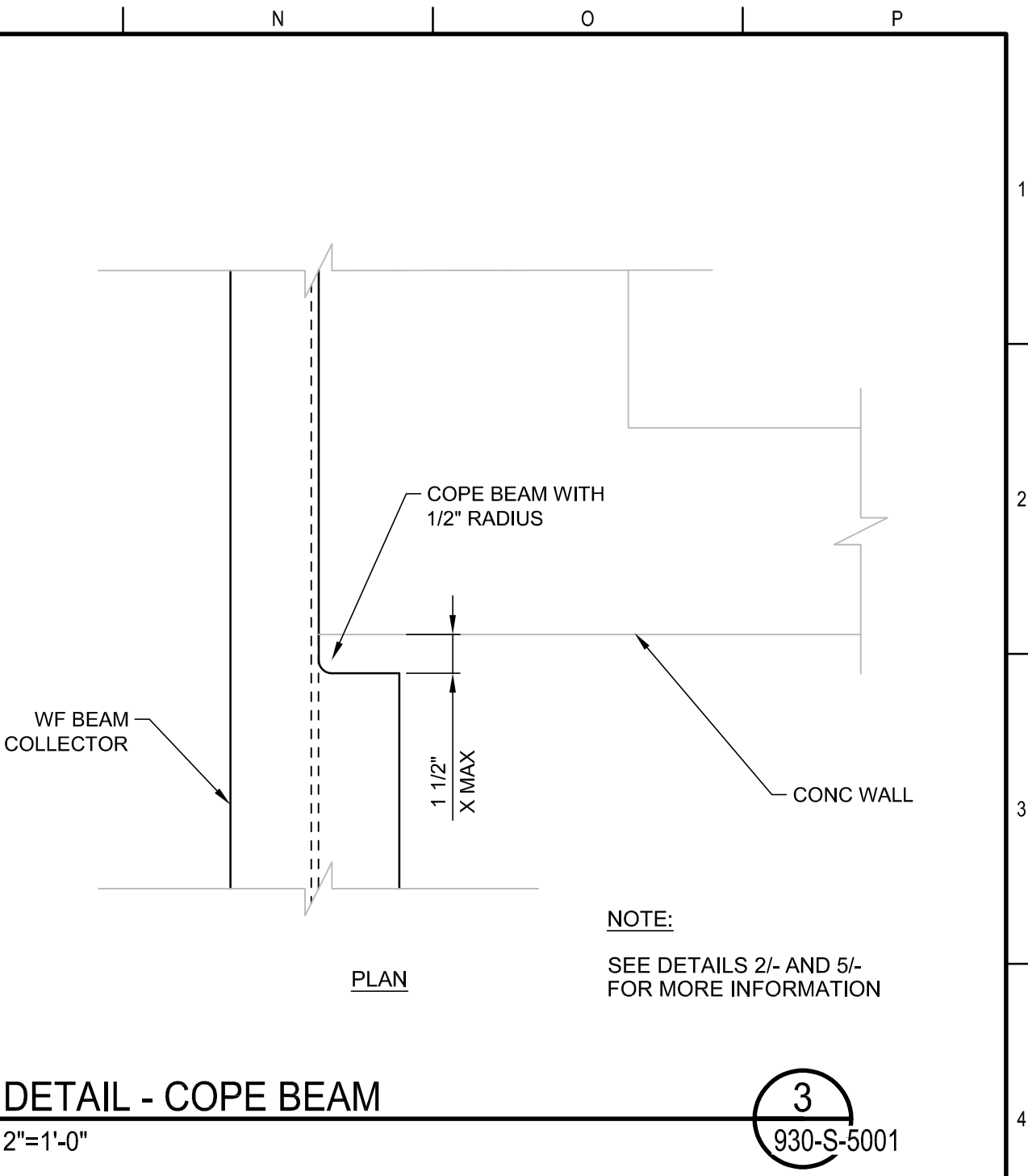
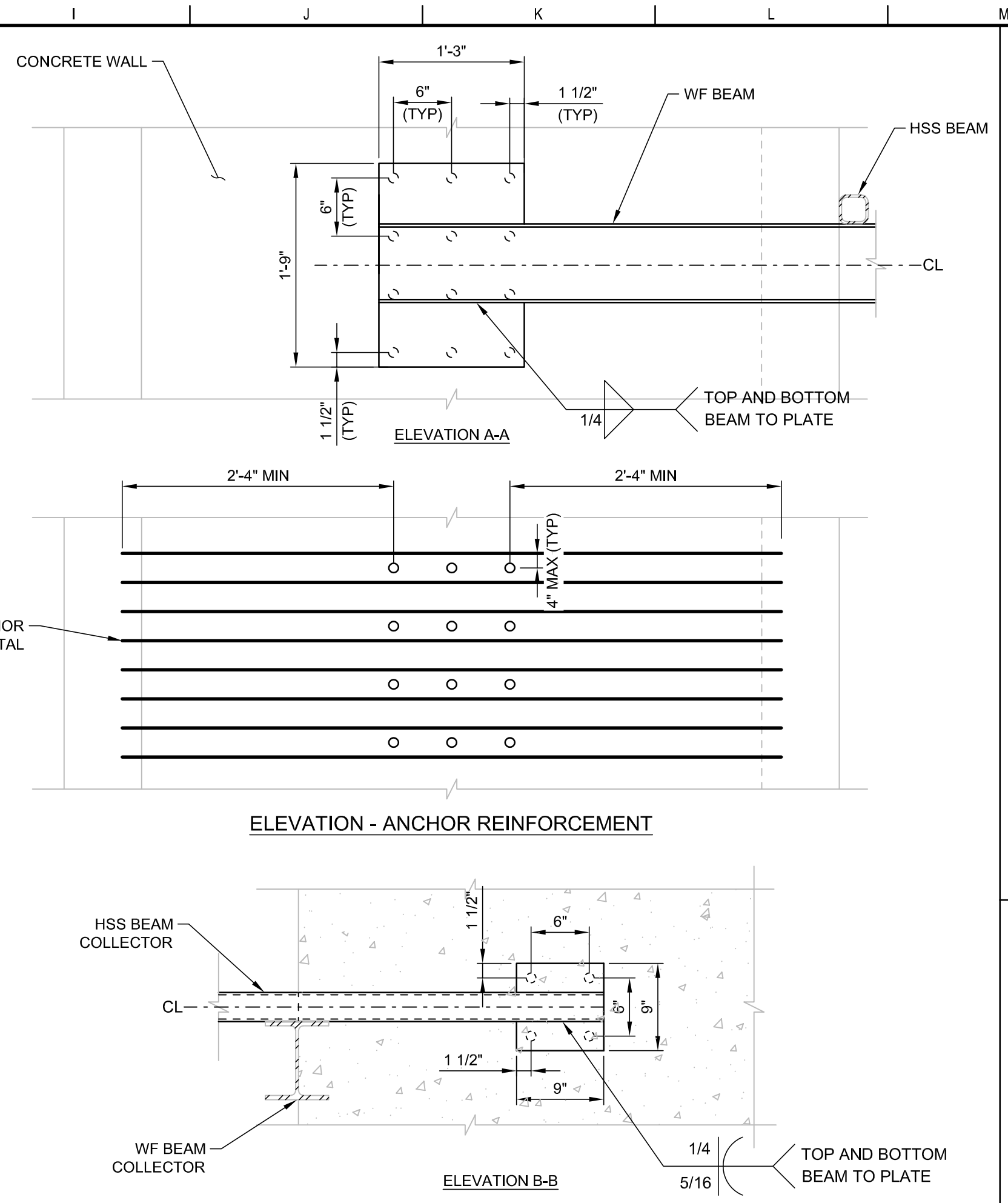
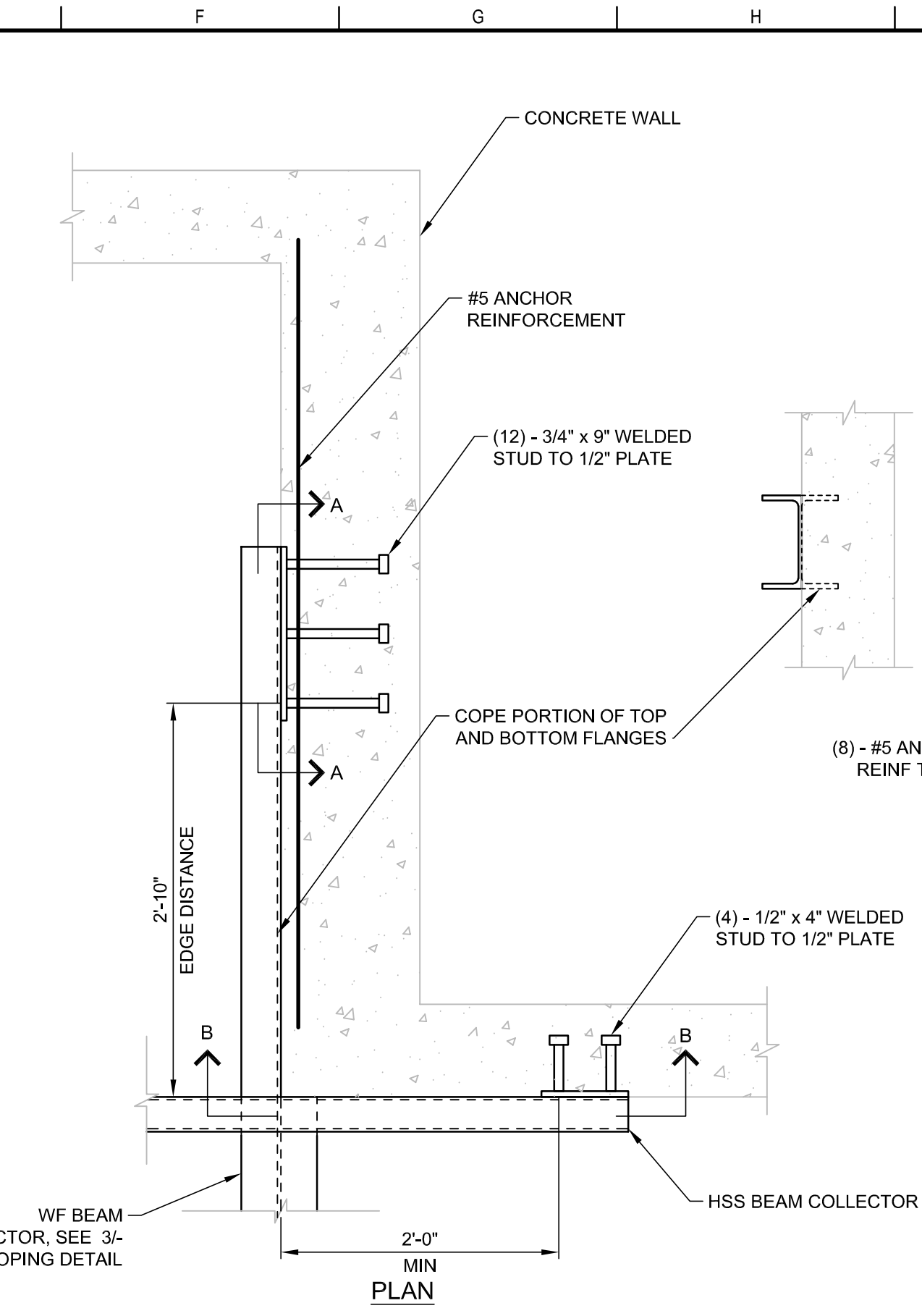
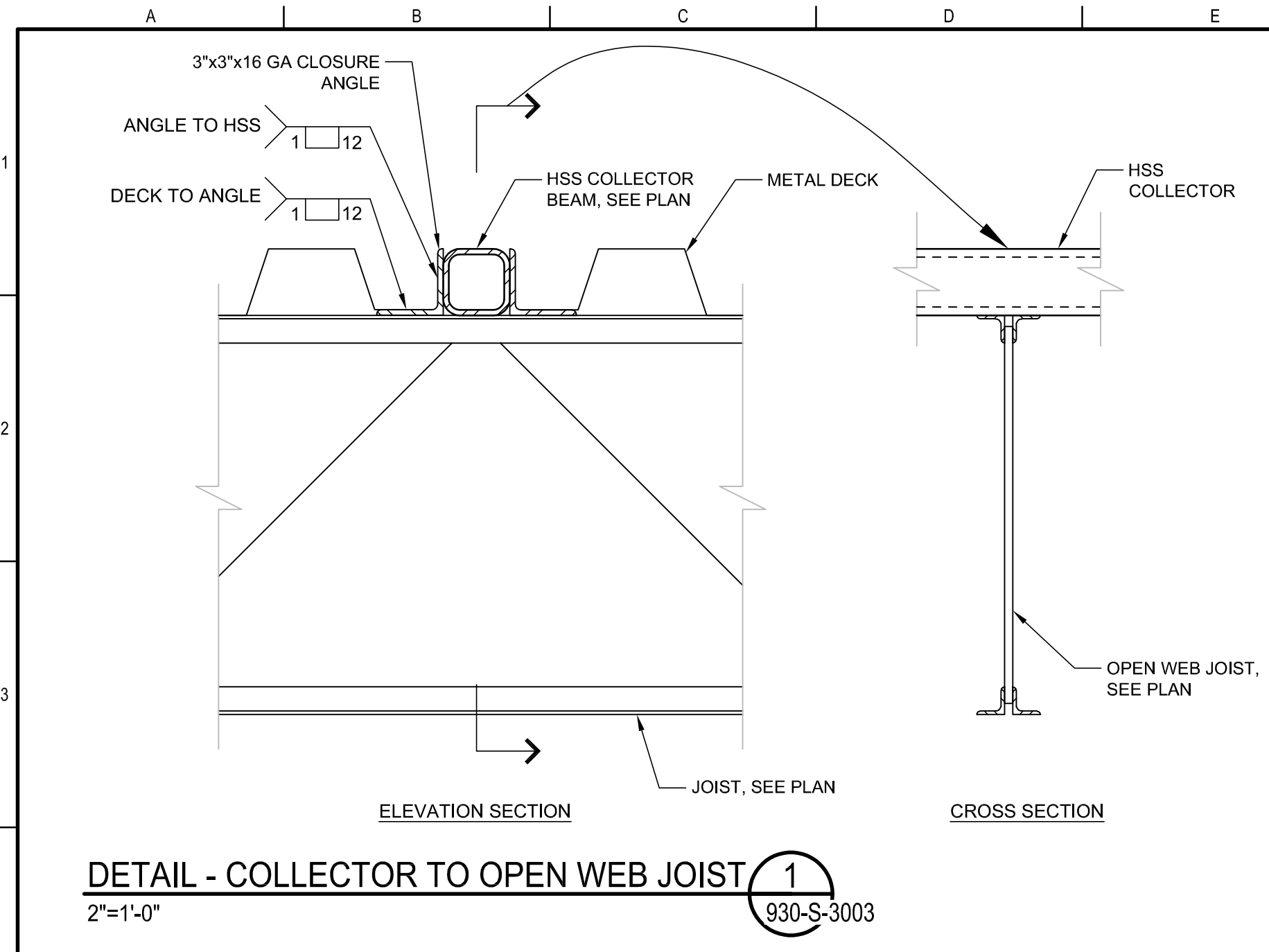
**SECTIONS 3 OF 3**

CHECKED / APPROVED	DRAWN
SECTION MANAGER	DESIGNED
WWE OPERATIONS MANAGER	SCALE 1/4" = 1'-0"
DATE 05/08/2024	APPROVED
MANAGER, ENGINEERING MANAGEMENT BUREAU	WWE ENGINEERING MANAGER
PLAN NO. <b>930-S-3003</b>	DRAWING / FILE NO. <b>0</b>









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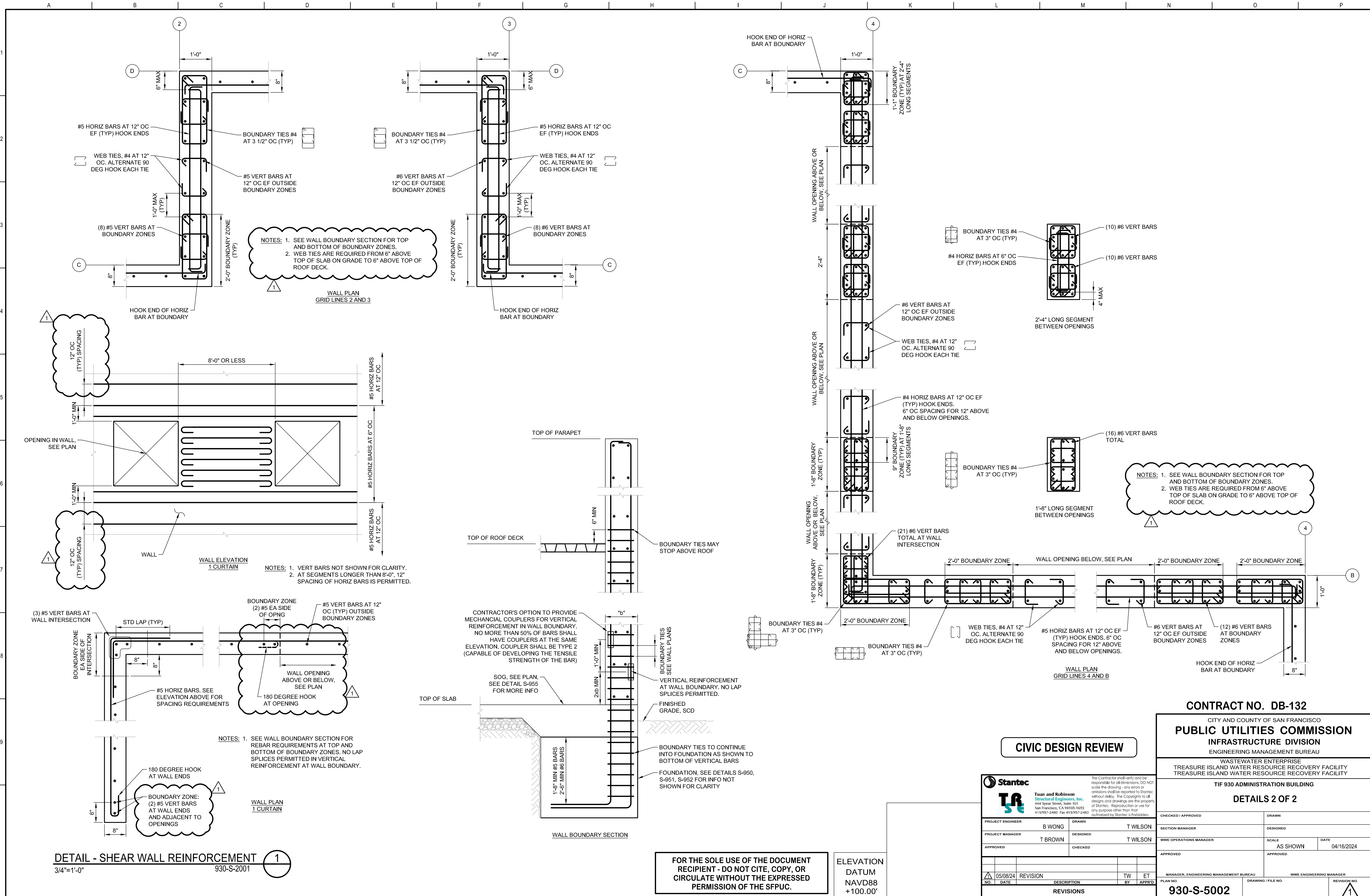
ELEVATION  
 DATUM  
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 +100.00'

**CIVIC DESIGN REVIEW**

<b>Stantec</b>		Tuan and Robinson Structural Engineers, Inc. 444 Spear Street, Suite 101 San Francisco, CA 94105-1693 415/957-2490 Fax: 415/957-2483	
PROJECT ENGINEER	B WONG	DRAWN	W ZHANG
PROJECT MANAGER	T BROWN	DESIGNED	W ZHANG
APPROVED		CHECKED	
NO.	DATE	DESCRIPTION	BY APPRD
REVISIONS			

<b>CONTRACT NO. DB-132</b>			
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WASTEWATER ENTERPRISE			
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY			
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY			
TIF 930 ADMINISTRATION BUILDING			
<b>DETAILS 1 OF 2</b>			
CHECKED / APPROVED	DRAWN	SECTION MANAGER	DESIGNED
WWE OPERATIONS MANAGER	SCALE	DATE	05/08/2024
APPROVED	APPROVED	MANAGER, ENGINEERING MANAGEMENT BUREAU	WWE ENGINEERING MANAGER
PLAN NO.	DRAWING / FILE NO.	REVISION NO.	0
<b>930-S-5001</b>			





NOTES: 1. SEE WALL BOUNDARY SECTION FOR TOP AND BOTTOM OF BOUNDARY ZONES.  
2. WEB TIES ARE REQUIRED FROM 6\"/>

NOTES: 1. SEE WALL BOUNDARY SECTION FOR TOP AND BOTTOM OF BOUNDARY ZONES.  
2. WEB TIES ARE REQUIRED FROM 6\"/>

NOTES: 1. VERT BARS NOT SHOWN FOR CLARITY.  
2. AT SEGMENTS LONGER THAN 8'-0\", 12\"/>

CONTRACTOR'S OPTION TO PROVIDE MECHANICAL COUPLERS FOR VERTICAL REINFORCEMENT IN WALL BOUNDARY. NO MORE THAN 50% OF BARS SHALL HAVE COUPLERS AT THE SAME ELEVATION. COUPLER SHALL BE TYPE 2 (CAPABLE OF DEVELOPING THE TENSILE STRENGTH OF THE BAR)

NOTES: 1. SEE WALL BOUNDARY SECTION FOR REBAR REQUIREMENTS AT TOP AND BOTTOM OF BOUNDARY ZONES. NO LAP SPLICES PERMITTED IN VERTICAL REINFORCEMENT AT WALL BOUNDARY.

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ELEVATION DATUM NAVD88 +100.00'

CIVIC DESIGN REVIEW

CONTRACT NO. DB-132  
CITY AND COUNTY OF SAN FRANCISCO  
**PUBLIC UTILITIES COMMISSION**  
INFRASTRUCTURE DIVISION  
ENGINEERING MANAGEMENT BUREAU  
WASTEWATER ENTERPRISE  
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY  
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY

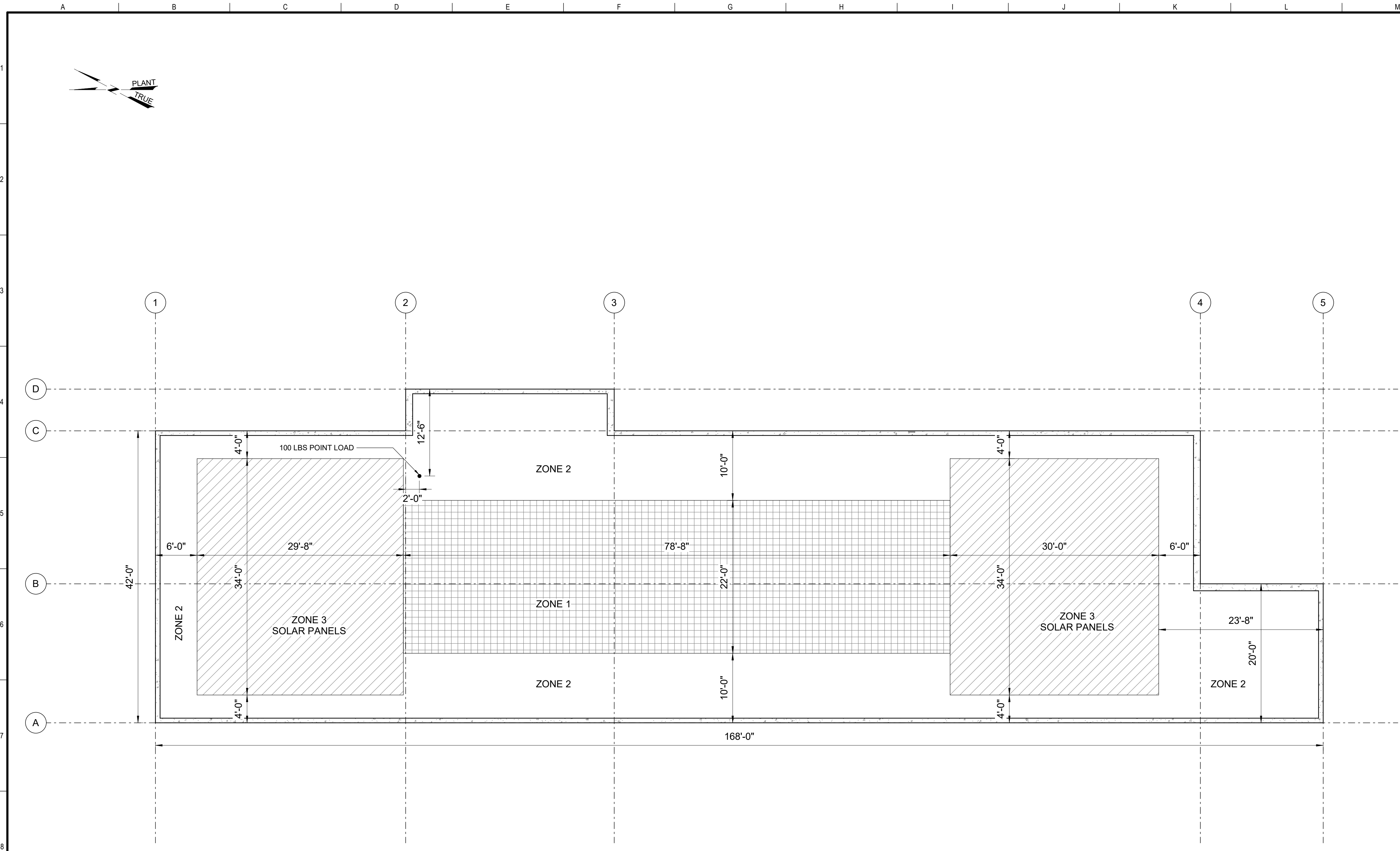
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PROJECT MANAGER	T BROWN	DESIGNED	T WILSON
APPROVED		CHECKED	
NO.	DATE	DESCRIPTION	TW ET
05/08/24		REVISION	
REVISIONS			

TIF 930 ADMINISTRATION BUILDING		DETAILS 2 OF 2	
CHECKED / APPROVED		DRAWN	
SECTION MANAGER		DESIGNED	
WWE OPERATIONS MANAGER		SCALE	AS SHOWN
APPROVED		DATE	04/16/2024
MANAGER, ENGINEERING MANAGEMENT BUREAU		WWE ENGINEERING MANAGER	
PLAN NO.	930-S-5002	DRAWING / FILE NO.	



**GENERAL SHEET NOTES**

- SEE 930-S-1002 FOR ADDITIONAL NOTES, OPEN WEB JOIST LOCATIONS, MAXIMUM JOIST SPACING, AND ROOF OPENINGS.
- SEE SPECIFICATIONS SECTION 05 21 19 FOR ADDITIONAL REQUIREMENTS.
- SUBMIT OPEN WEB JOIST DRAWINGS AND CALCULATIONS TO ENGINEER OF RECORD FOR APPROVAL PRIOR TO CONSTRUCTION.
- SEE ARCHITECTURAL DRAWINGS FOR ROOF SLOPE.
- CONTRACTOR TO COORDINATE OPEN WEB STEEL JOIST LAYOUT WITH MECHANICAL, ELECTRICAL, AND ARCHITECTURAL DRAWINGS TO AVOID CONFLICTS.
- OPEN WEB JOISTS SHALL HAVE A MAXIMUM DEPTH OF 18 INCHES.
- PROVIDE BRIDGING AND LATERAL BRACING AS REQUIRED FOR JOIST FIT-UP AND UPLIFT LOADING.
- APPLY ALL APPLICABLE LOAD COMBINATIONS FOR DESIGN OF OPEN WEB STEEL JOISTS.
- DEFLECTION DESIGN CRITERIA:**
  - MAXIMUM LIVE LOAD DEFLECTION OF L/360.
  - MAXIMUM TOTAL LOAD DEFLECTION OF L/240.
- LOADING DESIGN CRITERIA:**
  - ALL LOADS LISTED BELOW ARE UNFACTORED
  - DEAD LOAD = 26 PSF
    - INCLUDE AN ADDITIONAL 4 PSF IN SOLAR PANEL REGIONS (ZONE 3)
    - INCLUDES AN ASSUMED WEIGHT OF 5 PSF FOR JOIST SELF WEIGHT
  - ROOF LIVE LOAD = 20 PSF
  - WIND LOAD (NEGATIVE VALUES ARE UPLIFT):
    - ZONE 1 = -27.5 PSF, +8.9 PSF
    - ZONE 2 = -36.8 PSF, +8.9 PSF
    - ZONE 3 = -56.0 PSF, +56.0 PSF
  - RAIN LOAD
    - 26 PSF MAXIMUM
    - BASED ON 4" STATIC HEAD AND 1" HYDRAULIC HEAD OVER AN UNDEFLECTED ROOF SURFACE
    - JOIST DESIGN SHALL CONSIDER PONDING LOADS AND ADDITIONAL STATIC HEAD HEIGHT DUE TO DEFLECTION
    - DESIGN MAY ACCOUNT FOR REDUCED RAIN LOAD DUE TO ROOF SLOPE (i.e. WATER CAN ONLY POND AT LOW END OF ROOF)
  - ADDITIONAL POINT LOADS SHOWN ARE ROOFTOP MOUNTED EQUIPMENT WEIGHTS.
  - SEISMIC LOADS
    - VERTICAL: +/- 0.2x(Sds = 0.8)DL = +/- 0.16DL
    - WALL OUT-OF-PLANE ANCHORAGE = 6233 LBS AT 4'-0" OC
      - INCREASE DEMAND FOR STEEL ELEMENTS BY 1.4 PER ASCE 7-16 SECTION 12.11.2.2.2
      - ADJUST DEMAND AS REQUIRED FOR JOIST SPACING CLOSER THAN 4'-0" ON CENTER.



**ROOF LOADING DIAGRAM**  
1/8" = 1'-0"

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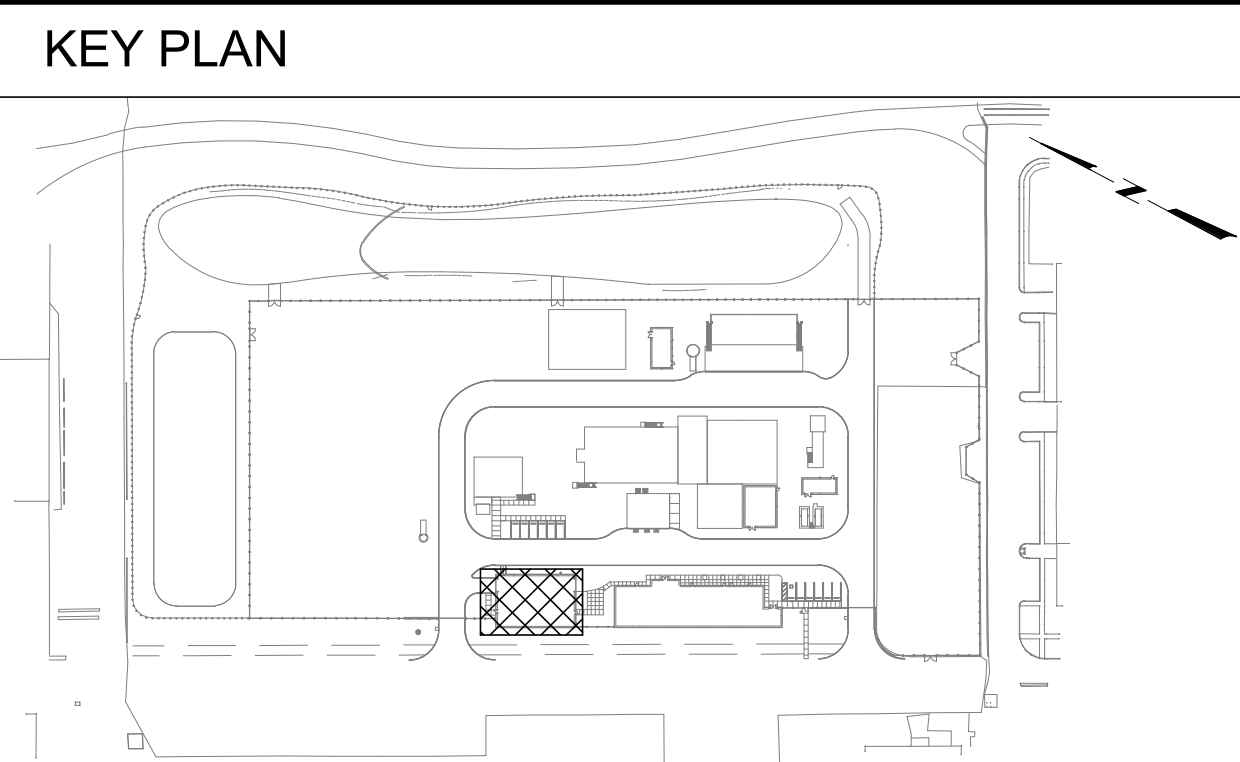
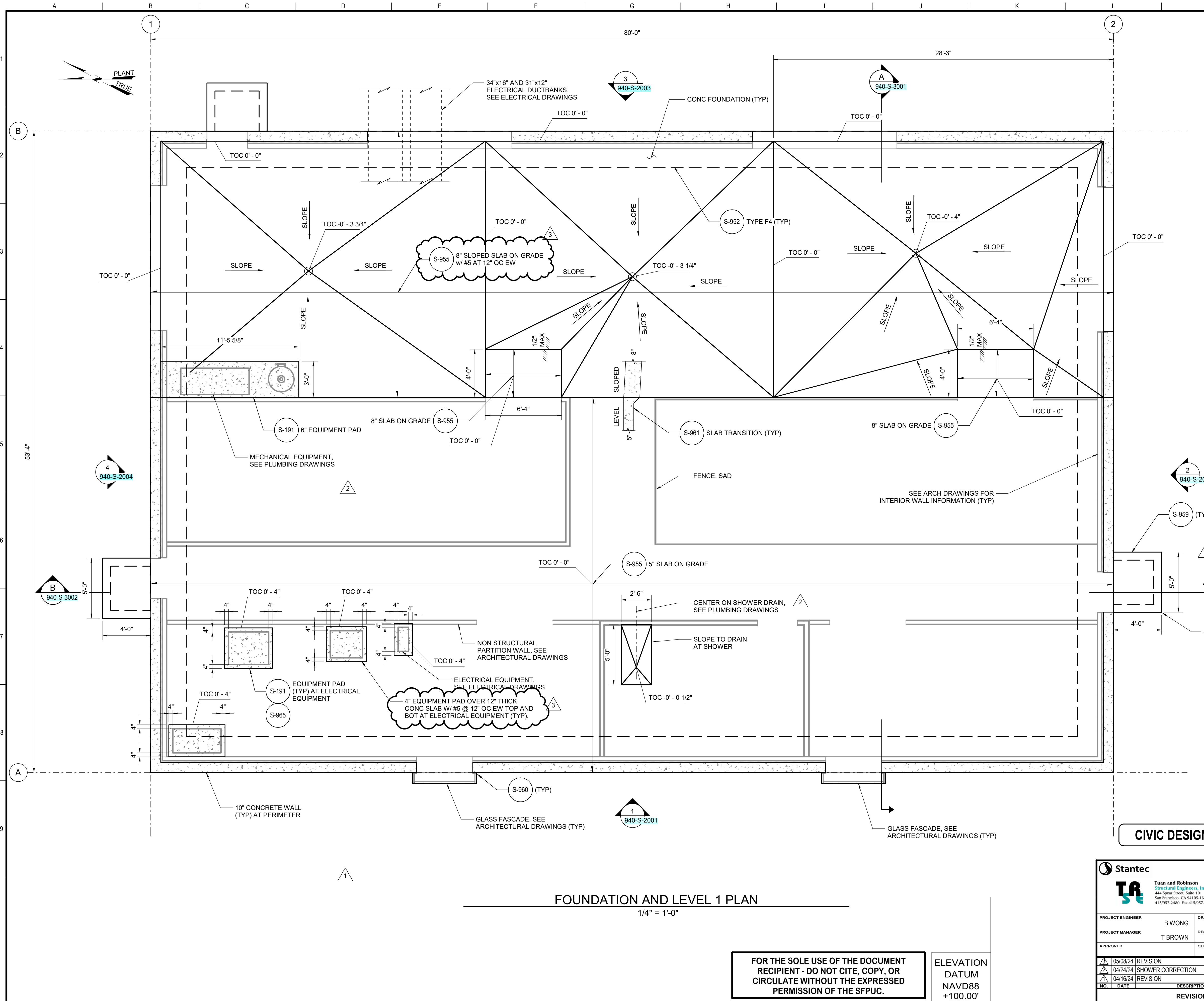
**ELEVATION DATUM**  
NAVD88  
+100.00'

**CIVIC DESIGN REVIEW**

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PROJECT MANAGER	T BROWN	DESIGNED	W ZHANG
APPROVED		CHECKED	
NO.	DATE	DESCRIPTION	BY
REVISIONS			

<b>CONTRACT NO. DB-132</b>	
CITY AND COUNTY OF SAN FRANCISCO <b>PUBLIC UTILITIES COMMISSION</b> INFRASTRUCTURE DIVISION ENGINEERING MANAGEMENT BUREAU	
WASTEWATER ENTERPRISE TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY	
TIF 930 ADMINISTRATION BUILDING	
<b>ROOF LOADING DIAGRAM</b>	
CHECKED / APPROVED	DRAWN
SECTION MANAGER	DESIGNED
WWE OPERATIONS MANAGER	SCALE 1/8" = 1'-0" DATE 05/08/2024
APPROVED	APPROVED
MANAGER, ENGINEERING MANAGEMENT BUREAU	WWE ENGINEERING MANAGER
PLAN NO. <b>930-S-6001</b>	DRAWING / FILE NO. <b>0</b>





**GENERAL SHEET NOTES**

- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO CONSTRUCTION, THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES.
- FOR EQUIPMENT LOCATIONS SEE MECHANICAL, HVAC AND ELECTRICAL DRAWINGS. PROVIDE EQUIPMENT PAD PER DETAIL S-191 UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH EQUIPMENT MANUFACTURER FOR CONCRETE EQUIPMENT PAD SIZE, ELEVATION AND LOCATION. DIMENSIONS OF EQUIPMENT PAD SIZE TO TAKE INTO ACCOUNT EDGE DISTANCE REQUIREMENTS FOR EQUIPMENT ANCHORAGE DESIGN.
- EQUIPMENT MANUFACTURER SHALL PROVIDE DRAWINGS AND CALCULATION FOR ANCHORAGE DESIGN STAMPED AND SIGNED BY CALIFORNIA REGISTERED CIVIL OR STRUCTURAL ENGINEER FOR REVIEW PRIOR TO POURING OF EQUIPMENT PADS.
- SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ALL OPENINGS, PIPE AND CONDUIT PENETRATIONS, PIPE SUPPORTS, AND CONDUIT RUNS. PROVIDE ADDITIONAL REINFORCEMENT FOR OPENINGS PER DETAIL S-144.
- ALL PIPING AND CONDUITS UNDER FOUNDATION SHALL BE ENCASED IN CONCRETE PER DETAIL S-171. PIPES AND CONDUITS WHICH DO NOT MEET THE MINIMUM SIZE OR COVER SPECIFIED IN DETAIL S-171 SHALL FOLLOW CLSM BACKFILL REQUIREMENTS PER DETAIL S-968. PIPING AND CONDUITS ROUTED THROUGH GRADE BEAM FOUNDATIONS SHALL FOLLOW DETAIL S-968.
- SEE SPECIFICATIONS FOR EARTHWORKS, STRUCTURE EXCAVATION, BACK FILL, SUB-BASE AND VAPOR BARRIER.
- CONTRACTOR TO SUBMIT SLAB ON GRADE CONTROL JOINT AND CONSTRUCTION JOINT LOCATIONS TO ENGINEER AND ARCHITECT FOR REVIEW PRIOR TO CONSTRUCTION IN CONFORMANCE WITH SPECIFICATION 03 32 00.
- SEE ELEVATIONS FOR CONCRETE WALL CONTROL JOINT AND CONSTRUCTION JOINT LOCATIONS.
- SEE DETAIL S-966 FOR CONCRETE GRADE BEAM CONSTRUCTION JOINTS. SUBMIT LOCATIONS OF CONSTRUCTION JOINTS TO ENGINEER FOR APPROVAL PRIOR TO POURING CONCRETE.
- TOP OF CONCRETE (TOC) ELEVATIONS ARE RELATIVE TO OPERATION LEVEL ELEVATION OF 117.0'.
- SEE ARCHITECTURAL DRAWINGS TO MAINTAIN ADA COMPLIANCE AT MAXIMUM 1/2" DROP IN TOP OF CONCRETE AT EDGES OF DOOR LANDINGS. ALL SLOPED SLABS SHALL MEET ADA REQUIREMENTS. SEE ARCHITECTURAL DRAWINGS. NOTIFY ENGINEER IF SLOPES MUST BE ADJUSTED.
- EQUIPMENT PAD DIMENSIONS SHOWN ARE MINIMUM REQUIRED. CONTRACTOR TO DETERMINE REQUIRED EQUIPMENT PAD DIMENSIONS BASED ON ANCHORAGE DESIGN.

**FOUNDATION AND LEVEL 1 PLAN**  
1/4" = 1'-0"

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ELEVATION DATUM  
NAVD88  
+100.00'

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PROJECT MANAGER	T BROWN	DESIGNED	T WILSON
APPROVED		CHECKED	
REVISION	DATE	DESCRIPTION	BY
05/08/24		REVISION	TW ET
04/24/24		SHOWER CORRECTION	TW ET
04/16/24		REVISION	TW ET

**CONTRACT NO. DB-132**

CITY AND COUNTY OF SAN FRANCISCO  
**PUBLIC UTILITIES COMMISSION**  
INFRASTRUCTURE DIVISION  
ENGINEERING MANAGEMENT BUREAU

WASTEWATER ENTERPRISE  
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY  
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY  
TIF 940 MAINTENANCE SHOPS

**FOUNDATION AND LEVEL 1 PLAN**

CHECKED / APPROVED	DRAWN
SECTION MANAGER	DESIGNED
WWE OPERATIONS MANAGER	SCALE 1/4" = 1'-0" DATE 12/22/2023
APPROVED	APPROVED
MANAGER, ENGINEERING MANAGEMENT BUREAU	WWE ENGINEERING MANAGER
PLAN NO. <b>940-S-1001</b>	DRAWING / FILE NO.

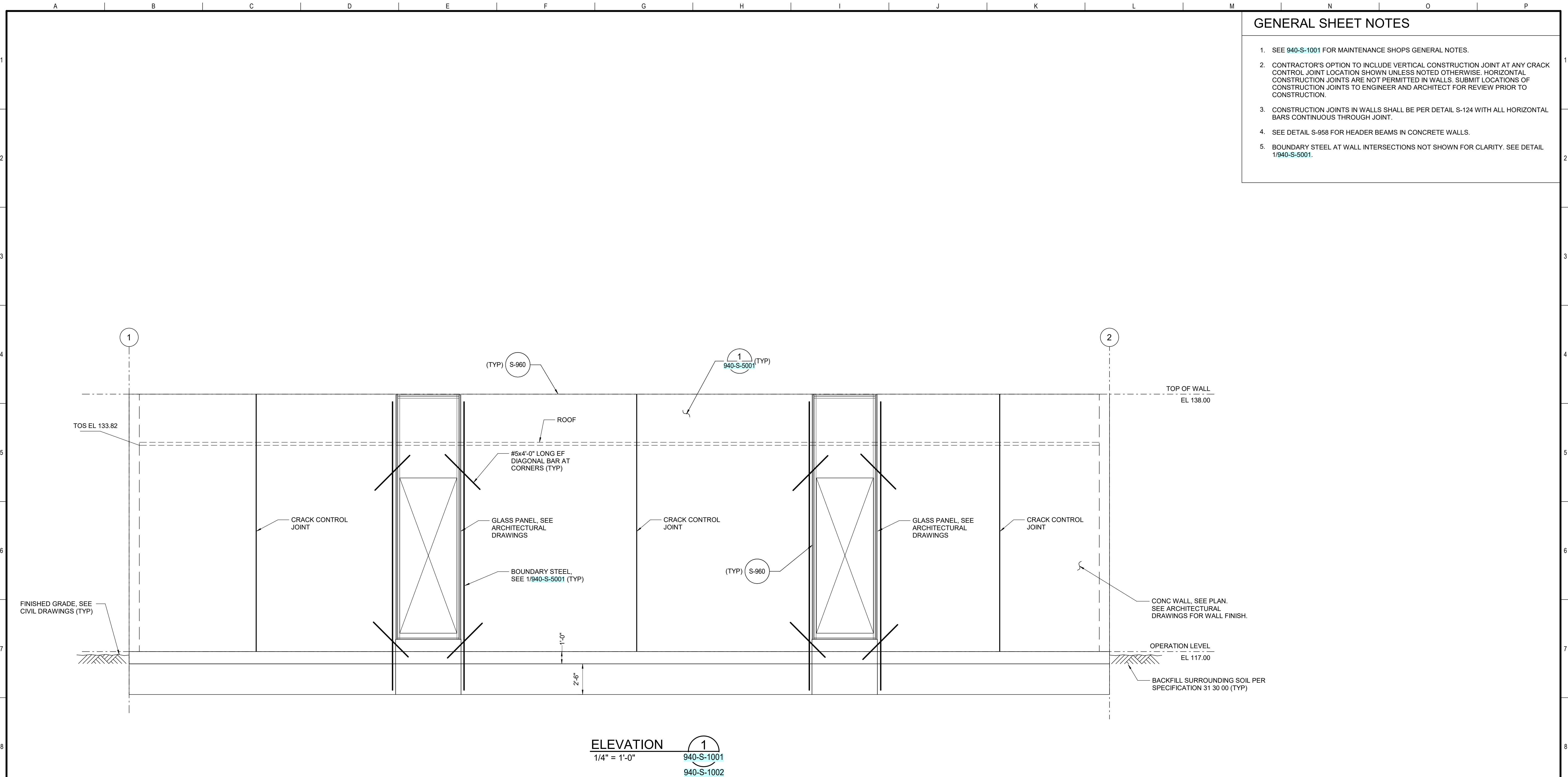






**GENERAL SHEET NOTES**

- SEE 940-S-1001 FOR MAINTENANCE SHOPS GENERAL NOTES.
- CONTRACTOR'S OPTION TO INCLUDE VERTICAL CONSTRUCTION JOINT AT ANY CRACK CONTROL JOINT LOCATION SHOWN UNLESS NOTED OTHERWISE. HORIZONTAL CONSTRUCTION JOINTS ARE NOT PERMITTED IN WALLS. SUBMIT LOCATIONS OF CONSTRUCTION JOINTS TO ENGINEER AND ARCHITECT FOR REVIEW PRIOR TO CONSTRUCTION.
- CONSTRUCTION JOINTS IN WALLS SHALL BE PER DETAIL S-124 WITH ALL HORIZONTAL BARS CONTINUOUS THROUGH JOINT.
- SEE DETAIL S-958 FOR HEADER BEAMS IN CONCRETE WALLS.
- BOUNDARY STEEL AT WALL INTERSECTIONS NOT SHOWN FOR CLARITY. SEE DETAIL 1/940-S-5001.



**ELEVATION**  
1/4" = 1'-0"  
1  
940-S-1001  
940-S-1002

**CIVIC DESIGN REVIEW**

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PROJECT ENGINEER	B WONG	DRAWN	T WILSON
PROJECT MANAGER	T BROWN	DESIGNED	T WILSON
APPROVED		CHECKED	
NO.	DATE	DESCRIPTION	BY
REVISIONS			

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ELEVATION DATUM  
NAVD88  
+100.00'

**CONTRACT NO. DB-132**

CITY AND COUNTY OF SAN FRANCISCO  
**PUBLIC UTILITIES COMMISSION**  
 INFRASTRUCTURE DIVISION  
 ENGINEERING MANAGEMENT BUREAU

WASTEWATER ENTERPRISE  
 TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY  
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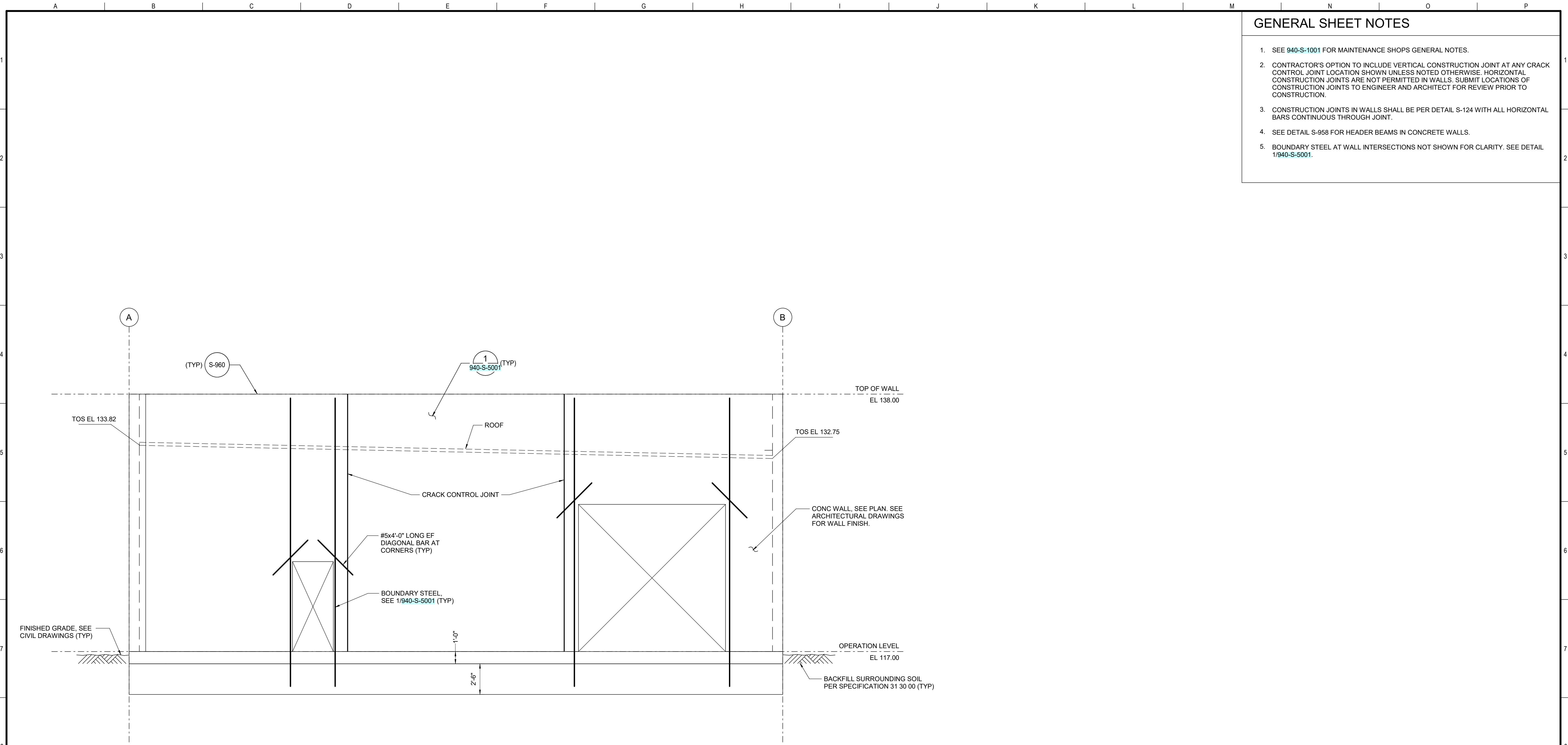
TIF 940 MAINTENANCE SHOPS  
**SHEAR WALL ELEVATIONS 1 OF 4**

CHECKED / APPROVED	DRAWN
SECTION MANAGER	DESIGNED
WWE OPERATIONS MANAGER	SCALE 1/4" = 1'-0" DATE 05/08/2024
APPROVED	APPROVED
MANAGER, ENGINEERING MANAGEMENT BUREAU	WWE ENGINEERING MANAGER
PLAN NO. <b>940-S-2001</b>	DRAWING / FILE NO. <b>0</b>



**GENERAL SHEET NOTES**

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- CONTRACTOR'S OPTION TO INCLUDE VERTICAL CONSTRUCTION JOINT AT ANY CRACK CONTROL JOINT LOCATION SHOWN UNLESS NOTED OTHERWISE. HORIZONTAL CONSTRUCTION JOINTS ARE NOT PERMITTED IN WALLS. SUBMIT LOCATIONS OF CONSTRUCTION JOINTS TO ENGINEER AND ARCHITECT FOR REVIEW PRIOR TO CONSTRUCTION.
- CONSTRUCTION JOINTS IN WALLS SHALL BE PER DETAIL S-124 WITH ALL HORIZONTAL BARS CONTINUOUS THROUGH JOINT.
- SEE DETAIL S-958 FOR HEADER BEAMS IN CONCRETE WALLS.
- BOUNDARY STEEL AT WALL INTERSECTIONS NOT SHOWN FOR CLARITY. SEE DETAIL 1/940-S-5001.



**ELEVATION**  
1/4" = 1'-0"  
**2**  
940-S-1001  
940-S-1002

**CIVIC DESIGN REVIEW**

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<b>PROJECT MANAGER</b> T BROWN	<b>DESIGNED</b> T WILSON	<b>CHECKED</b>	
<b>APPROVED</b>			
<b>NO.</b>	<b>DATE</b>	<b>DESCRIPTION</b>	<b>BY</b> <b>APPRD</b>
<b>REVISIONS</b>			

<b>CONTRACT NO. DB-132</b>			
CITY AND COUNTY OF SAN FRANCISCO			
<b>PUBLIC UTILITIES COMMISSION</b>			
INFRASTRUCTURE DIVISION			
ENGINEERING MANAGEMENT BUREAU			
WASTEWATER ENTERPRISE			
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY			
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY			
TIF 940 MAINTENANCE SHOPS			
<b>SHEAR WALL ELEVATIONS 2 OF 4</b>			
<b>CHECKED / APPROVED</b>	<b>DRAWN</b>		
<b>SECTION MANAGER</b>	<b>DESIGNED</b>		
<b>WWE OPERATIONS MANAGER</b>	<b>SCALE</b> 1/4" = 1'-0"	<b>DATE</b> 05/08/2024	
<b>APPROVED</b>	<b>APPROVED</b>		
<b>MANAGER, ENGINEERING MANAGEMENT BUREAU</b>	<b>WWE ENGINEERING MANAGER</b>		
<b>PLAN NO.</b> 940-S-2002	<b>DRAWING / FILE NO.</b>	<b>REVISION NO.</b> 0	

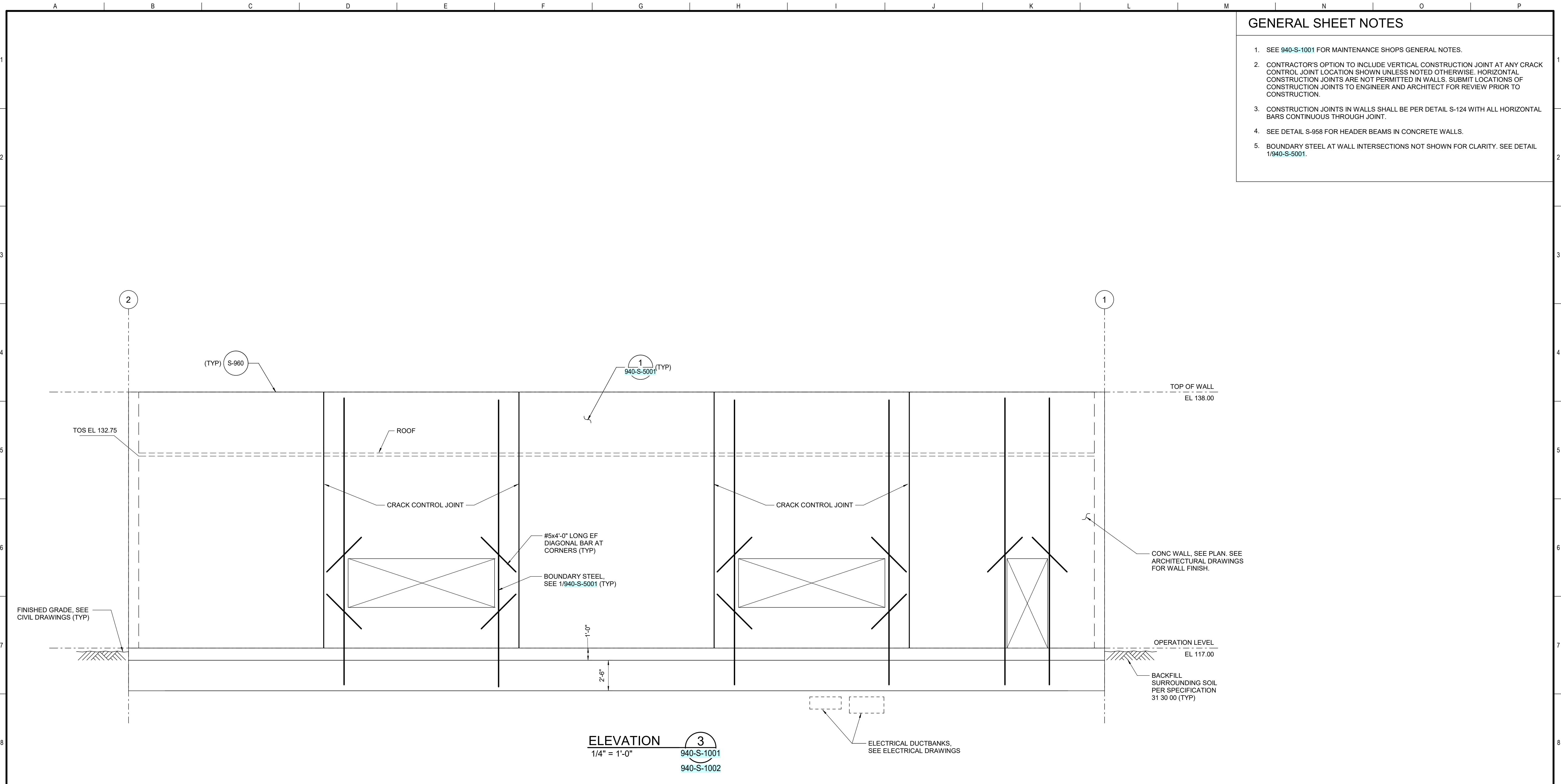
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**ELEVATION DATUM**  
NAVD88  
+100.00'



**GENERAL SHEET NOTES**

- SEE 940-S-1001 FOR MAINTENANCE SHOPS GENERAL NOTES.
- CONTRACTOR'S OPTION TO INCLUDE VERTICAL CONSTRUCTION JOINT AT ANY CRACK CONTROL JOINT LOCATION SHOWN UNLESS NOTED OTHERWISE. HORIZONTAL CONSTRUCTION JOINTS ARE NOT PERMITTED IN WALLS. SUBMIT LOCATIONS OF CONSTRUCTION JOINTS TO ENGINEER AND ARCHITECT FOR REVIEW PRIOR TO CONSTRUCTION.
- CONSTRUCTION JOINTS IN WALLS SHALL BE PER DETAIL S-124 WITH ALL HORIZONTAL BARS CONTINUOUS THROUGH JOINT.
- SEE DETAIL S-958 FOR HEADER BEAMS IN CONCRETE WALLS.
- BOUNDARY STEEL AT WALL INTERSECTIONS NOT SHOWN FOR CLARITY. SEE DETAIL 1/940-S-5001.



**ELEVATION**  
1/4" = 1'-0"  
3  
940-S-1001  
940-S-1002

**CIVIC DESIGN REVIEW**

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PROJECT MANAGER	T BROWN	DESIGNED	T WILSON
APPROVED		CHECKED	
NO.	DATE	DESCRIPTION	BY
REVISIONS			

**CONTRACT NO. DB-132**

CITY AND COUNTY OF SAN FRANCISCO  
**PUBLIC UTILITIES COMMISSION**  
INFRASTRUCTURE DIVISION  
ENGINEERING MANAGEMENT BUREAU

WASTEWATER ENTERPRISE  
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY  
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY

TIF 940 MAINTENANCE SHOPS  
**SHEAR WALL ELEVATIONS 3 OF 4**

CHECKED / APPROVED	DRAWN
SECTION MANAGER	DESIGNED
WWE OPERATIONS MANAGER	SCALE 1/4" = 1'-0" DATE 05/08/2024
APPROVED	APPROVED
MANAGER, ENGINEERING MANAGEMENT BUREAU	WWE ENGINEERING MANAGER
PLAN NO. <b>940-S-2003</b>	DRAWING / FILE NO. <b>0</b>

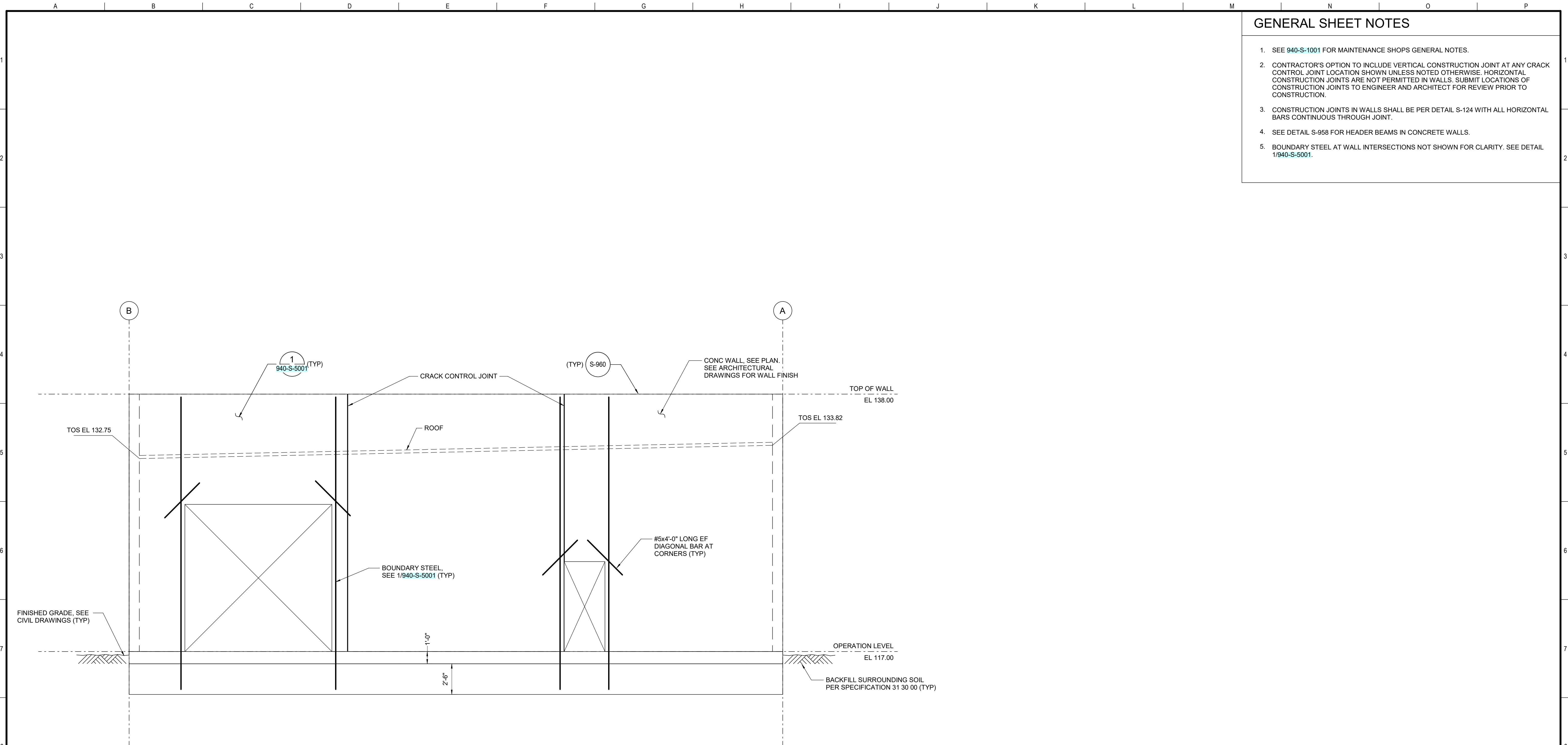
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**ELEVATION DATUM**  
NAVD88  
+100.00'



**GENERAL SHEET NOTES**

1. SEE 940-S-1001 FOR MAINTENANCE SHOPS GENERAL NOTES.
2. CONTRACTOR'S OPTION TO INCLUDE VERTICAL CONSTRUCTION JOINT AT ANY CRACK CONTROL JOINT LOCATION SHOWN UNLESS NOTED OTHERWISE. HORIZONTAL CONSTRUCTION JOINTS ARE NOT PERMITTED IN WALLS. SUBMIT LOCATIONS OF CONSTRUCTION JOINTS TO ENGINEER AND ARCHITECT FOR REVIEW PRIOR TO CONSTRUCTION.
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5. BOUNDARY STEEL AT WALL INTERSECTIONS NOT SHOWN FOR CLARITY. SEE DETAIL 1/940-S-5001.



**ELEVATION**  
1/4" = 1'-0"  
4  
940-S-1001  
940-S-1002

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**ELEVATION DATUM**  
NAVD88  
+100.00'

**CIVIC DESIGN REVIEW**

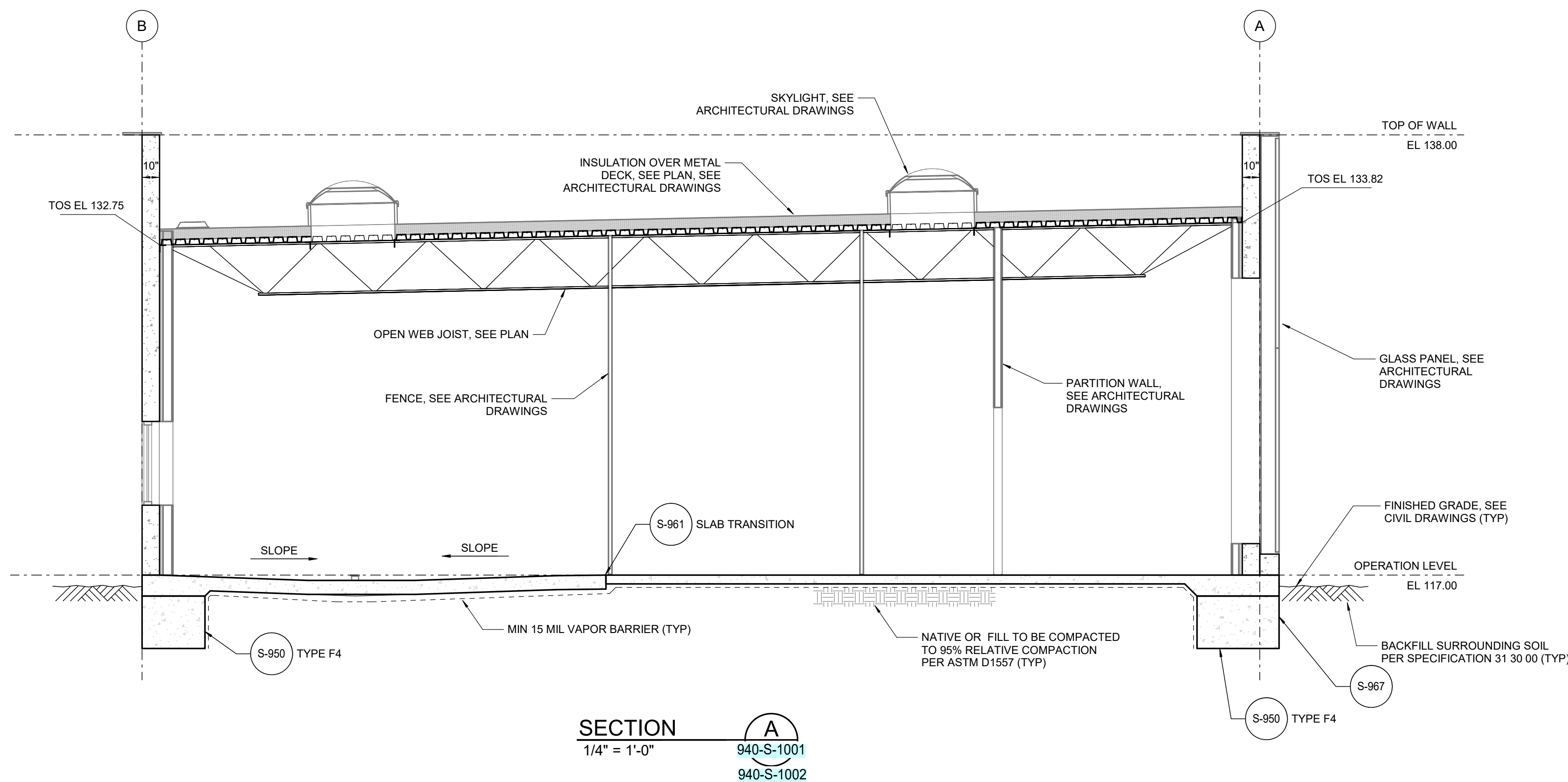
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<b>Tuan and Robinson</b> <small>Structural Engineers, Inc.</small> 444 Spear Street, Suite 101 San Francisco, CA 94105-1693 415.957-2480 Fax: 415.957-2483	<b>PROJECT ENGINEER</b> B WONG	<b>DRAWN</b> T WILSON	<b>DESIGNED</b> T WILSON
<b>PROJECT MANAGER</b> T BROWN	<b>APPROVED</b>	<b>CHECKED</b>	<b>APPROVED</b>
<b>NO.</b>	<b>DATE</b>	<b>DESCRIPTION</b>	<b>BY</b> <b>APPRD</b>
<b>REVISIONS</b>			

<b>CONTRACT NO. DB-132</b>			
CITY AND COUNTY OF SAN FRANCISCO			
<b>PUBLIC UTILITIES COMMISSION</b>			
INFRASTRUCTURE DIVISION			
ENGINEERING MANAGEMENT BUREAU			
WASTEWATER ENTERPRISE			
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY			
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY			
TIF 940 MAINTENANCE SHOPS			
<b>SHEAR WALL ELEVATIONS 4 OF 4</b>			
<b>CHECKED / APPROVED</b>	<b>DRAWN</b>		
<b>SECTION MANAGER</b>	<b>DESIGNED</b>		
<b>WWE OPERATIONS MANAGER</b>	<b>SCALE</b> 1/4" = 1'-0"	<b>DATE</b> 05/08/2024	
<b>APPROVED</b>	<b>APPROVED</b>		
<b>MANAGER, ENGINEERING MANAGEMENT BUREAU</b>		<b>WWE ENGINEERING MANAGER</b>	
<b>PLAN NO.</b> 940-S-2004	<b>DRAWING / FILE NO.</b>	<b>REVISION NO.</b> 0	



**GENERAL SHEET NOTES**

- SEE 940-S-1001 FOR MAINTENANCE SHOPS GENERAL NOTES.
- SEE PLAN FOR FOUNDATION SIZES



**SECTION A**  
1/4" = 1'-0"  
940-S-1001  
940-S-1002

**CIVIC DESIGN REVIEW**

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PROJECT ENGINEER	B WONG	DRAWN	T WILSON
PROJECT MANAGER	T BROWN	DESIGNED	T WILSON
APPROVED		CHECKED	
NO.	DATE	DESCRIPTION	BY
REVISIONS			

<b>CONTRACT NO. DB-132</b>			
CITY AND COUNTY OF SAN FRANCISCO			
<b>PUBLIC UTILITIES COMMISSION</b>			
INFRASTRUCTURE DIVISION			
ENGINEERING MANAGEMENT BUREAU			
WASTEWATER ENTERPRISE			
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY			
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY			
<b>TIF 940 MAINTENANCE SHOPS</b>			
<b>SECTIONS 1 OF 2</b>			
CHECKED / APPROVED	DRAWN		
SECTION MANAGER	DESIGNED		
WWE OPERATIONS MANAGER	SCALE	DATE	
	1/4" = 1'-0"	05/08/2024	
APPROVED	APPROVED		
MANAGER, ENGINEERING MANAGEMENT BUREAU		WWE ENGINEERING MANAGER	
PLAN NO.	DRAWING / FILE NO.	REVISION NO.	
<b>940-S-3001</b>		<b>0</b>	

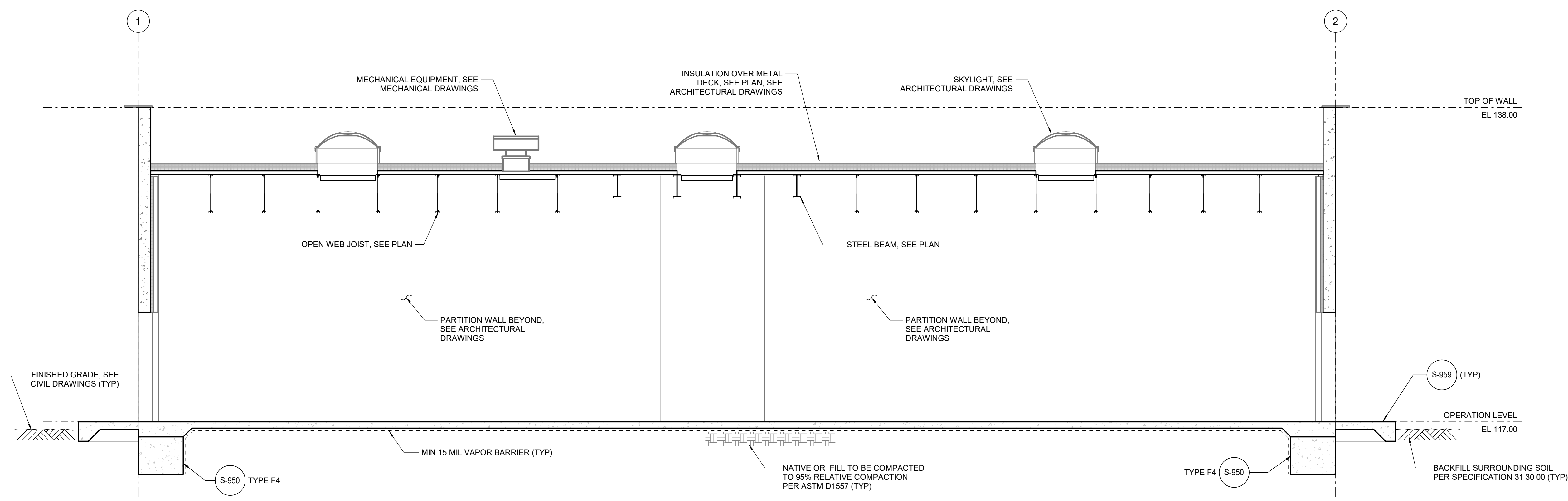
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**ELEVATION DATUM NAVD88 +100.00'**



**GENERAL SHEET NOTES**

- SEE 940-S-1001 FOR MAINTENANCE SHOPS GENERAL NOTES.
- SEE PLAN FOR FOUNDATION SIZES



**SECTION B**  
1/4" = 1'-0"  
940-S-1001  
940-S-1002

**CIVIC DESIGN REVIEW**

**CONTRACT NO. DB-132**

CITY AND COUNTY OF SAN FRANCISCO  
**PUBLIC UTILITIES COMMISSION**  
INFRASTRUCTURE DIVISION  
ENGINEERING MANAGEMENT BUREAU

WASTEWATER ENTERPRISE  
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY  
TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY

TIF 940 MAINTENANCE SHOPS  
**SECTIONS 2 OF 2**

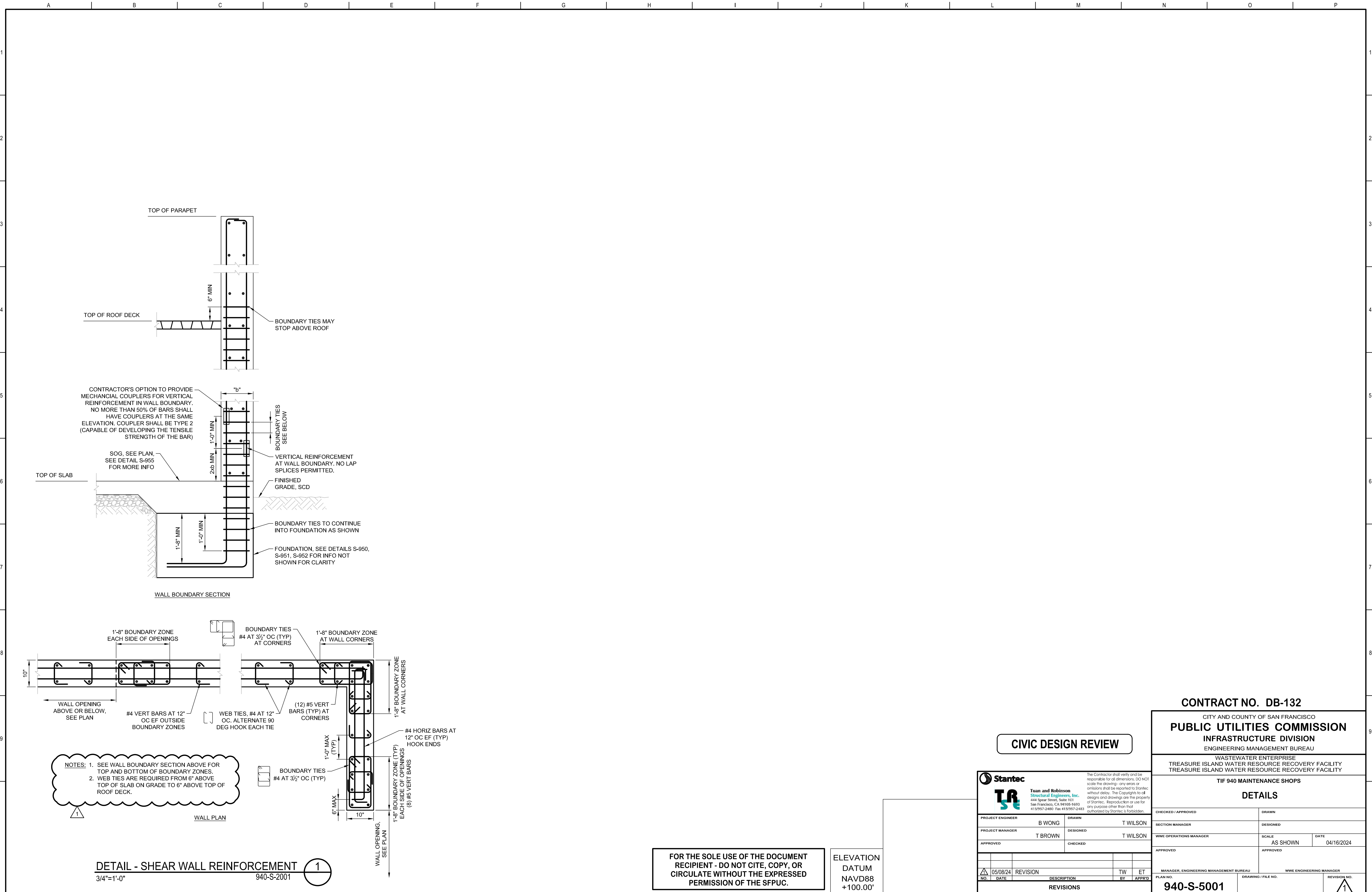
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PROJECT ENGINEER	B WONG	DRAWN	T WILSON
PROJECT MANAGER	T BROWN	DESIGNED	T WILSON
APPROVED		CHECKED	
NO.	DATE	DESCRIPTION	BY
REVISIONS			

CHECKED / APPROVED	DRAWN
SECTION MANAGER	DESIGNED
WWE OPERATIONS MANAGER	SCALE 1/4" = 1'-0" DATE 05/08/2024
APPROVED	APPROVED
MANAGER, ENGINEERING MANAGEMENT BUREAU	WWE ENGINEERING MANAGER
PLAN NO. <b>940-S-3002</b>	DRAWING / FILE NO. <b>0</b>

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ELEVATION DATUM  
NAVD88  
+100.00'





**DETAIL - SHEAR WALL REINFORCEMENT**  
 3/4" = 1'-0" 940-S-2001

**NOTES:**  
 1. SEE WALL BOUNDARY SECTION ABOVE FOR TOP AND BOTTOM OF BOUNDARY ZONES.  
 2. WEB TIES ARE REQUIRED FROM 6" ABOVE TOP OF SLAB ON GRADE TO 6" ABOVE TOP OF ROOF DECK.

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**ELEVATION  
 DATUM  
 NAVD88  
 +100.00'**

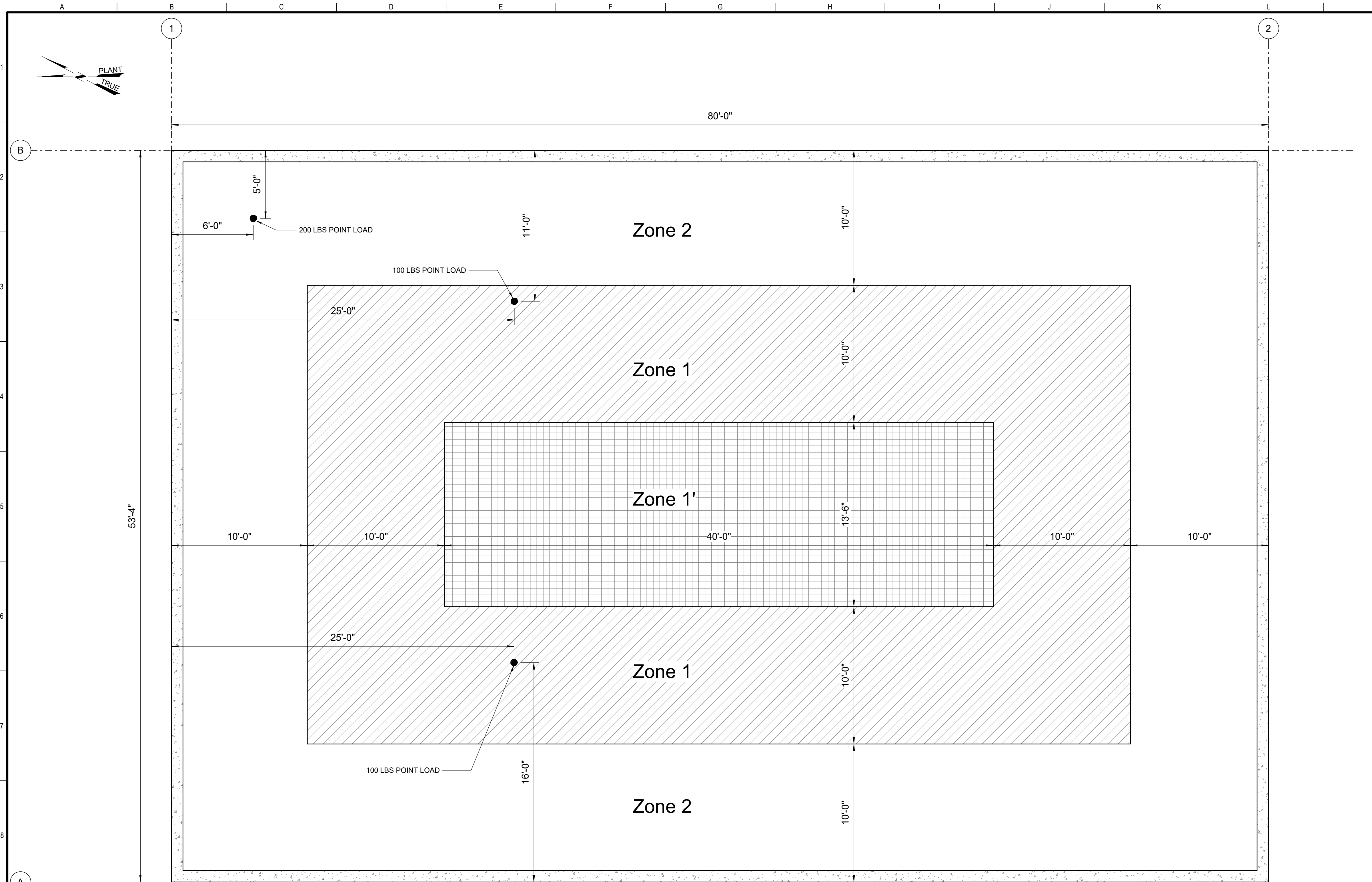
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PROJECT ENGINEER	B WONG	DRAWN	T WILSON
PROJECT MANAGER	T BROWN	DESIGNED	T WILSON
APPROVED		CHECKED	
NO.	DATE	REVISION	
REVISIONS		TW	ET
		BY	APPRD

**CONTRACT NO. DB-132**  
 CITY AND COUNTY OF SAN FRANCISCO  
**PUBLIC UTILITIES COMMISSION**  
 INFRASTRUCTURE DIVISION  
 ENGINEERING MANAGEMENT BUREAU  
 WASTEWATER ENTERPRISE  
 TREASURE ISLAND WATER RESOURCE RECOVERY FACILITY  
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**TIF 940 MAINTENANCE SHOPS**  
**DETAILS**

CHECKED / APPROVED	DRAWN
SECTION MANAGER	DESIGNED
WWE OPERATIONS MANAGER	SCALE AS SHOWN
APPROVED	DATE 04/16/2024
MANAGER, ENGINEERING MANAGEMENT BUREAU	WWE ENGINEERING MANAGER
PLAN NO. <b>940-S-5001</b>	DRAWING / FILE NO.
REVISION NO.	





- ### GENERAL SHEET NOTES
- SEE 940-S-1002 FOR ADDITIONAL NOTES, OPEN WEB JOIST LOCATIONS, MAXIMUM JOIST SPACING, AND ROOF OPENINGS.
  - SEE SPECIFICATIONS SECTION 05 21 19 FOR ADDITIONAL REQUIREMENTS.
  - SUBMIT OPEN WEB STEEL JOIST DRAWINGS AND CALCULATIONS TO ENGINEER OF RECORD FOR APPROVAL PRIOR TO CONSTRUCTION.
  - SEE ARCHITECTURAL DRAWINGS FOR ROOF SLOPE.
  - CONTRACTOR TO COORDINATE OPEN WEB STEEL JOIST LAYOUT WITH MECHANICAL, ELECTRICAL, AND ARCHITECTURAL DRAWINGS TO AVOID CONFLICTS.
  - OPEN WEB JOISTS SHALL HAVE A MAXIMUM DEPTH OF 30 INCHES.
  - PROVIDE BRIDGING AND LATERAL BRACING AS REQUIRED FOR JOIST FIT-UP AND UPLIFT LOADING.
  - APPLY ALL APPLICABLE LOAD COMBINATIONS FOR DESIGN OF OPEN WEB STEEL JOISTS.
  - DEFLECTION DESIGN CRITERIA:**
    - MAXIMUM LIVE LOAD DEFLECTION OF L/360.
    - MAXIMUM TOTAL LOAD DEFLECTION OF L/240.
  - LOADING DESIGN CRITERIA:**
    - ALL LOADS LISTED BELOW ARE UNFACTORED
    - DEAD LOAD = 23 PSF
      - INCLUDES AN ASSUMED WEIGHT OF 5 PSF FOR JOIST SELF WEIGHT
    - ROOF LIVE LOAD = 20 PSF
    - WIND LOAD (NEGATIVE VALUES ARE UPLIFT):
      - ZONE 1 = -14.2 PSF, +9.3 PSF
      - ZONE 1 = -28.9 PSF, +9.3 PSF
      - ZONE 2 = -38.6 PSF, +9.3 PSF
    - RAIN LOAD
      - 26 PSF MAXIMUM
      - BASED ON 4" STATIC HEAD AND 1" HYDRAULIC HEAD OVER AN UNDEFLECTED ROOF SURFACE
      - JOIST DESIGN SHALL CONSIDER PONDING LOADS AND ADDITIONAL STATIC HEAD HEIGHT DUE TO DEFLECTION
      - DESIGN MAY ACCOUNT FOR REDUCED RAIN LOAD DUE TO ROOF SLOPE (i.e. WATER CAN ONLY POND AT LOW END OF ROOF)
    - ADDITIONAL POINT LOADS SHOWN ARE ROOFTOP MOUNTED EQUIPMENT WEIGHTS.
    - SEISMIC LOADS
      - VERTICAL:  $\pm 0.2 \times (Sds = 0.8) DL = \pm 0.16 DL$
      - WALL OUT-OF-PLANE ANCHORAGE = 6233 LBS AT 4'-0" OC
        - INCREASE DEMAND FOR STEEL ELEMENTS BY 1.4 PER ASCE 7-16 SECTION 12.11.2.2.2
        - ADJUST DEMAND AS REQUIRED FOR JOIST SPACING CLOSER THAN 4'-0" ON CENTER.

**ROOF LOADING DIAGRAM**  
1/4" = 1'-0"

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ELEVATION DATUM  
NAVD88  
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**CIVIC DESIGN REVIEW**

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PROJECT ENGINEER	B WONG	DRAWN	T WILSON
PROJECT MANAGER	T BROWN	DESIGNED	T WILSON
APPROVED		CHECKED	
NO.	DATE	DESCRIPTION	BY
REVISIONS			

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TIF 940 MAINTENANCE SHOPS  
**ROOF LOADING DIAGRAM**

CHECKED / APPROVED	DRAWN
SECTION MANAGER	DESIGNED
WWE OPERATIONS MANAGER	SCALE 1/4" = 1'-0" DATE 05/08/2024
APPROVED	APPROVED
MANAGER, ENGINEERING MANAGEMENT BUREAU	WWE ENGINEERING MANAGER
PLAN NO. <b>940-S-6001</b>	DRAWING / FILE NO. <b>0</b>