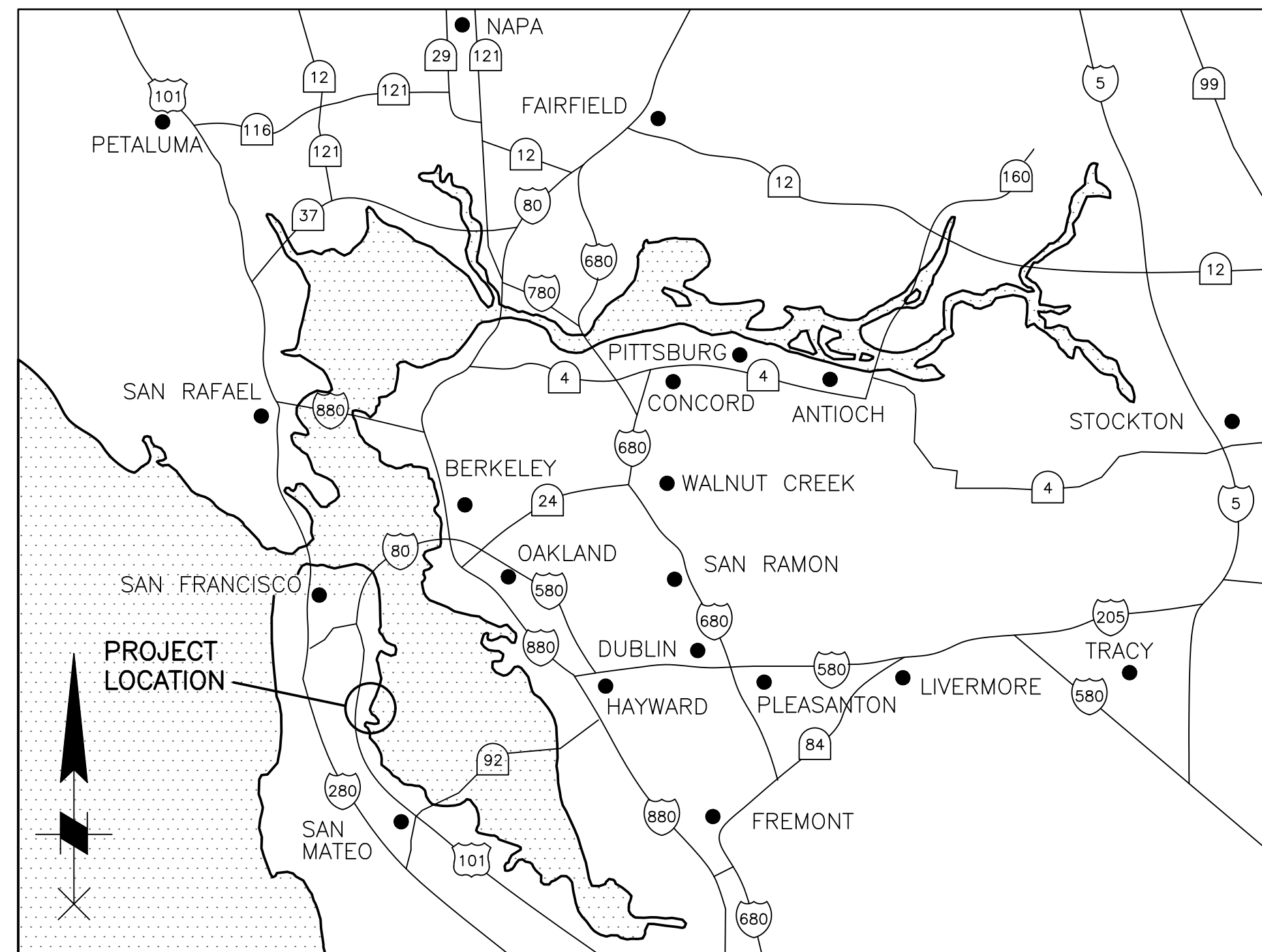


OYSTER POINT MARINA WEST BASIN ACCESS IMPROVEMENTS

SAN MATEO COUNTY HARBOR DISTRICT SOUTH SAN FRANCISCO, CALIFORNIA



VICINITY MAP
SCALE: NTS



LOCATION PLAN
SCALE: NTS

SHEET INDEX		
INDEX NO.	DRAWING NO.	SHEET TITLE
1	G-001	TITLE SHEET
2	G-002	GENERAL NOTES, ABBREVIATIONS, AND LEGEND
3	C-001	EXISTING SITE PLAN
4	C-002	SITE PLAN
5	C-003	DEMOLITION & TEMPORARY FACILITIES PLAN
6	C-010	DOCK ACCESS PLAN
7	C-011	DOCKS 1 & 2 - DOCK ACCESS PLAN & ELEVATION
8	C-012	DOCKS 3 & 4 - DOCK ACCESS PLAN & ELEVATION
9	C-013	DOCKS 5 & 6 - DOCK ACCESS PLAN & ELEVATION
10	C-020	MECHANICAL GENERAL NOTES, LEGEND & ABBREVIATIONS
11	C-021	WEST BASIN MECHANICAL PLAN
12	C-022	DOCKS 1-6 ACCESS MECHANICAL PLANS
13	C-023	MECHANICAL DETAILS SHEET 1 OF 2
14	C-024	MECHANICAL DETAILS SHEET 2 OF 2
15	E-001	ELECTRICAL GENERAL NOTES
16	E-002	WEST BASIN ELECTRICAL PLAN
17	E-010	ELECTRICAL DETAILS
18	E-011	SINGLE LINE DIAGRAM
19	S-001	STRUCTURAL NOTES
20	S-002	ACCESS PLATFORM PLAN
21	S-003	ACCESS PLATFORM STRUCTURAL DETAILS
22	S-004	ACCESS PLATFORM PILE DETAILS
23	S-005	ACCESS PLATFORM GUARDRAIL
24	S-006	SECURITY GATE DETAILS
25	S-007	WEST BASIN ABUTMENT DETAILS

File: C:\WC\67-13 Oyster Pt Docks 12-14_CAD_Active_Sheets\West Basin Access Improvements\67-13-G-001_Plot.dwg, 4/10/2024, 4:12 PM, by PLESCHUK, ELENA, Saved: 3/28/2024, 3:48 PM, by PLESCHUK, ELENA

APRIL 10, 2024
BID SET



SAN MATEO COUNTY HARBOR DISTRICT
504 Avenue Alhambra, 2nd Floor
El Granada, CA 94018
(650) 741-9163

REVISION	DESCRIPTION	BY	DATE



moffatt & nichol
2185 N. CALIFORNIA BLVD.
SUITE 500
WALNUT CREEK, CA 94596

DSGN	NN	DR	EP/NN	CHK	BP/RD
JOB NO.	9673-13	SUBMITTED BY		TITLE	

SAN MATEO COUNTY HARBOR DISTRICT
OYSTER POINT MARINA
WEST BASIN ACCESS IMPROVEMENTS

DATE 04-10-2024
SHEET 1 OF 25

TITLE SHEET

G-001

File: C:\WC\9673-13 Oyster Pt Docks 12-144_CADD_Active_Sheets\West Basin Access Improvements\9673_13-G-002_Plot.dwg, 4/10/2024 4:12 PM by PLESCHUK, ELENA, Saved: 1/30/2023 5:44 PM by MWCHOLS

GENERAL NOTES

- COORDINATE THE SCHEDULE OF CONSTRUCTION OPERATIONS WITH SAN MATEO COUNTY HARBOR DISTRICT (DISTRICT) OPERATION OF OYSTER POINT MARINA.
- PROVIDE TO THE HARBORMASTER WORK SCHEDULES FOR COORDINATION OF BOAT MOVEMENT WITHIN THE PROJECT AREA. THE HARBORMASTER WILL BE RESPONSIBLE FOR TIMELY NOTIFICATION OF THE TENANTS AND MOVEMENT OF THE BOATS.
- COORDINATE THE CONSTRUCTION WITH WATER EMERGENCY TRANSPORTATION AUTHORITY (WETA) TO AVOID IMPACTING SOUTH SAN FRANCISCO FERRY OPERATIONS AT OYSTER POINT MARINA.
- VERIFY THE LOCATION OF ALL EXISTING UTILITIES WITHIN THE PROJECT SITE BEFORE BEGINNING DEMOLITION AND CONSTRUCTION OPERATIONS. COORDINATE THE SCHEDULE OF WORK WITH THE OYSTER POINT MARINA HARBORMASTER.
- DEMOLITION OF EXISTING FEATURES SHALL BE LIMITED TO THE ITEMS SHOWN ON THE PLANS AND DESCRIBED IN THE SPECIFICATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE EXISTING FEATURES TO REMAIN THAT ARE DAMAGED BY THE CONTRACTOR'S OPERATIONS, TO THE SATISFACTION OF THE DISTRICT.
- CONTACT THE DISTRICT IMMEDIATELY UPON FINDING ANY FIELD CONDITIONS THAT CONFLICT WITH THE INFORMATION ON THE DRAWINGS OR IN THE SPECIFICATIONS. ALL FIELD ADJUSTMENTS SHALL BE APPROVED BY THE DISTRICT PRIOR TO CONSTRUCTION OF SAID ADJUSTMENTS. FAILURE TO DO SO WILL RESULT IN THE CONTRACTOR ASSUMING FULL RESPONSIBILITY FOR ANY REQUIRED REVISIONS OR FIELD MODIFICATIONS, AS DIRECTED BY THE DISTRICT, AT NO ADDITIONAL COST TO THE DISTRICT.
- CONSTRUCTION SITE SECURITY SHALL BE PROVIDED FOR THE DURATION OF THE CONTRACT PERIOD AND SHALL REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- FURNISH, INSTALL, AND MAINTAIN ALL WARNING SIGNS AND DEVICES NECESSARY TO SAFEGUARD THE GENERAL PUBLIC AND THE WORK, AND FOR PROVIDING PROPER AND SAFE ROUTING OF THE BOATING, VEHICULAR, AND PEDESTRIAN TRAFFIC DURING THE PERFORMANCE OF THE WORK. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND SHALL NOT BE LIMITED TO WORKING HOURS. THE USE OF FLAGGERS, BARRICADES, AND CONSTRUCTION SIGNING SHALL COMPLY WITH THE DISTRICT'S STANDARD SPECIFICATION; BUOYS, LIGHTS, OR OTHER NAVIGATION AIDS SHALL COMPLY WITH THE U.S. COAST GUARD REQUIREMENTS.
- KEEP THE PROJECT SITE IN A NEAT AND ORDERLY CONDITION, FREE OF RUBBISH AND DEBRIS.
- ALL WORK SHOWN SHALL BE NEW UNLESS OTHERWISE NOTED.

VERTICAL DATUM

- PROJECT ELEVATION BASED ON MLLW.
- ESTIMATED TIDAL PLANES AT OYSTER POINT MARINA:

TIDAL DATUM	ELEVATION (FT, MLLW)
DESIGN HIGH WATER (DHW) (KING TIDE +1.5 FT SLR)	10.40
100-YEAR WSEL	10.24
HIGHEST OBSERVED WATER LEVEL	10.18
KING TIDE	8.90
MEAN HIGHER HIGH WATER (MHHW)	7.18
MEAN HIGH WATER (MHW)	6.54
MEAN TIDE LEVEL (MTL)	3.84
MEAN SEA LEVEL (MSL)	3.77
NGVD	3.34
MEAN LOW WATER (MLW)	1.14
NAVD88	0.46
MEAN LOWER LOW WATER (MLLW)	0.00
DESIGN LOW WATER (DLW)	-2.00
LOWEST OBSERVED WATER LEVEL	-2.72

- THE TIDAL DATUMS DISPLAYED ABOVE ARE BASED ON 2011 COASTAL DATUM CALCULATIONS PERFORMED BY MOFFATT & NICHOL FOR PROJECT NUMBER 6997-09 "OYSTER POINT BREAKWATER MODIFICATIONS", CURRENT NOAA TIDAL PREDICTIONS FOR STATION 9414392 OYSTER POINT MARINA, AND "STATE OF CALIFORNIA SEA LEVEL RISE GUIDANCE 2018." TO CONVERT ANY PROJECT ELEVATION TO NAVD88 ELEVATION, SUBTRACT 0.46 FT FROM THE MLLW ELEVATION. KING TIDE BASED ON HIGHEST PREDICTED ANNUAL HIGH TIDES 2020-2025.

HORIZONTAL DATUM

- PROJECT COORDINATES ARE BASED ON THE CALIFORNIA STATE PLANE, COORDINATE SYSTEM NAD 1983, ZONE 3.
- BENCHMARKS AS SHOWN ON "SURVEY REPORT FOR THE UNITED STATES CORPS OF ENGINEERS NAVIGATION PROJECT AT OYSTER POINT MARINA, SOUTH SAN FRANCISCO, CA" DATED JUNE 2011.

BENCHMARK	NORTHING	EASTING	ELEVATION (FT, MLLW)
SFT1	2069140.11	6019089.64	10.31
SFT2	2069522.87	6017972.24	8.53
SFT3	2069231.62	6017537.83	8.83

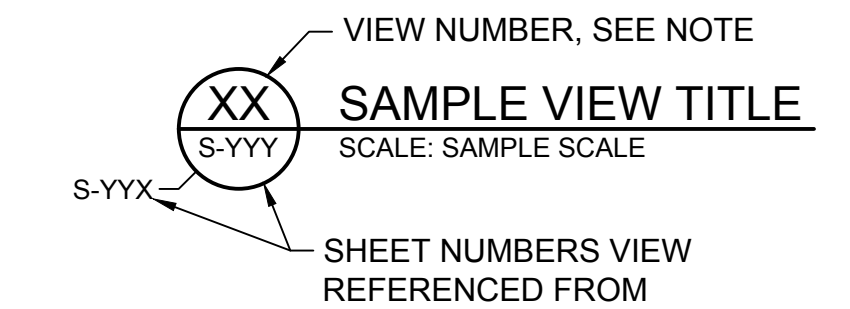
ABBREVIATIONS

&	AND
@	AT
Ø	DIAMETER
#	NUMBER
%	PERCENT
AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
AC	ASPHALT CONCRETE
APPROX	APPROXIMATE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
BCDC	SAN FRANCISCO BAY CONSERVATION AND DEVELOPMENT COMMISSION
BLVD	BOULEVARD
BLDG	BUILDING
C	CONDUIT
CA	CALIFORNIA
CF	CUBIC FEET
CIP	CAST IN PLACE
CL	CENTER LINE
CLR	CLEAR
CO	CONDUIT ONLY
CONC	CONCRETE
CTV	CABLE TELEVISION
DBA	DEFORMED BAR ANCHORS
DEMO	DEMOLISH
DHW	DESIGN HIGH WATER
DLW	DESIGN LOW WATER
DWG	DRAWING
E	EAST
EA	EACH
EL	ELEVATION
EW	EACH WAY
(E)	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FG	FINISHED GRADE
FT	FEET
FRP	FIBER-REINFORCED POLYMER, FIBERGLASS REINFORCED PLASTIC
FW	FIRE WATER
GA	GAUGE
GB	GRADE BREAK
HB	HOSE BIBB
HDPE	HIGH-DENSITY POLYEHTYLENE
HORIZ	HORIZONTAL
INCLU.	INCLUDING
JT	JOINT
KIP	1000 LBS
LB	POUNDS
LONGIT	LONGITUDINAL
MAX	MAXIMUM
MHW	MEAN HIGH WATER
MHHW	MEAN HIGHER HIGH WATER
MIN	MINIMUM
MLW	MEAN LOW WATER
MLLW	MEAN LOWER LOW WATER
MSL	MEAN SEA LEVEL
MTL	MEAN TIDE LEVEL
N	NORTH
NAD	NORTH AMERICAN DATUM 1983

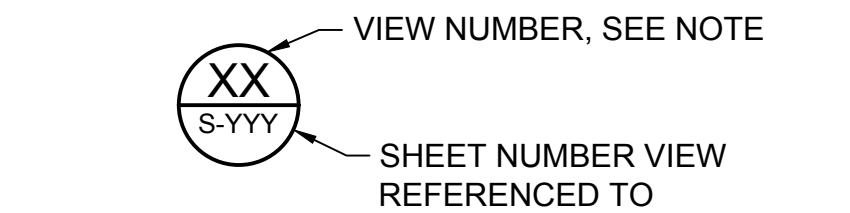
NAVD88	NORTH AMERICAN VERTICAL DATUM 1988
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NGVD	NATIONAL GEODETIC VERTICAL DATUM 1929
NTS	NOT TO SCALE
OC	ON CENTER
OG	ORIGINAL GRADE
POC	POINT OF CONNECTION
PSI	POUNDS PER SQUARE INCH
PW	POTABLE WATER
R	RADIUS
REQD	REQUIRED
SCH	SCHEDULE
SF	SQUARE FEET
SLR	SEA LEVEL RISE
SMCHD	SAN MATEO COUNTY HARBOR DISTRICT
SS	STAINLESS STEEL
T&B	TOP AND BOTTOM
TELE	TELEPHONE
TEMP	TEMPORARY
TOT	TOTAL
TYP	TYPICAL
VAR	VARIES
VIF	VERIFY IN FIELD
VERT	VERTICAL
WETA	WATER EMERGENCY TRANSPORTATION ADMINISTRATION
WSEL	WATER SURFACE ELEVATION
W/	WITH
WP	WORK POINT
UHMW	ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE
UON	UNLESS OTHERWISE NOTED

CROSS REFERENCE LEGEND

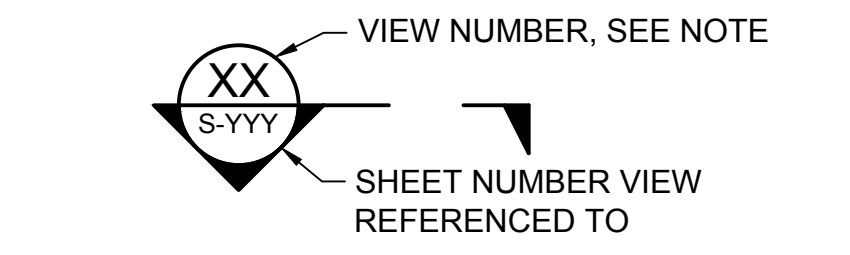
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VIEW TITLE



DETAIL CALLOUT



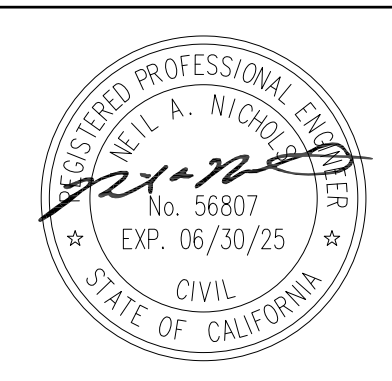
SECTION CALLOUT

APRIL 10, 2024
BID SET



SAN MATEO COUNTY HARBOR DISTRICT
504 Avenue Alhambra, 2nd Floor
El Granada, CA 94018
(650) 741-9163

REVISION	DESCRIPTION	BY	DATE



moffatt & nichol

2185 N. CALIFORNIA BLVD.
SUITE 500
WALNUT CREEK, CA 94596

DSGN	NN	DR	EP/NN	CHK	BP/RD
JOB NO.	9673-13	SUBMITTED BY		TITLE	

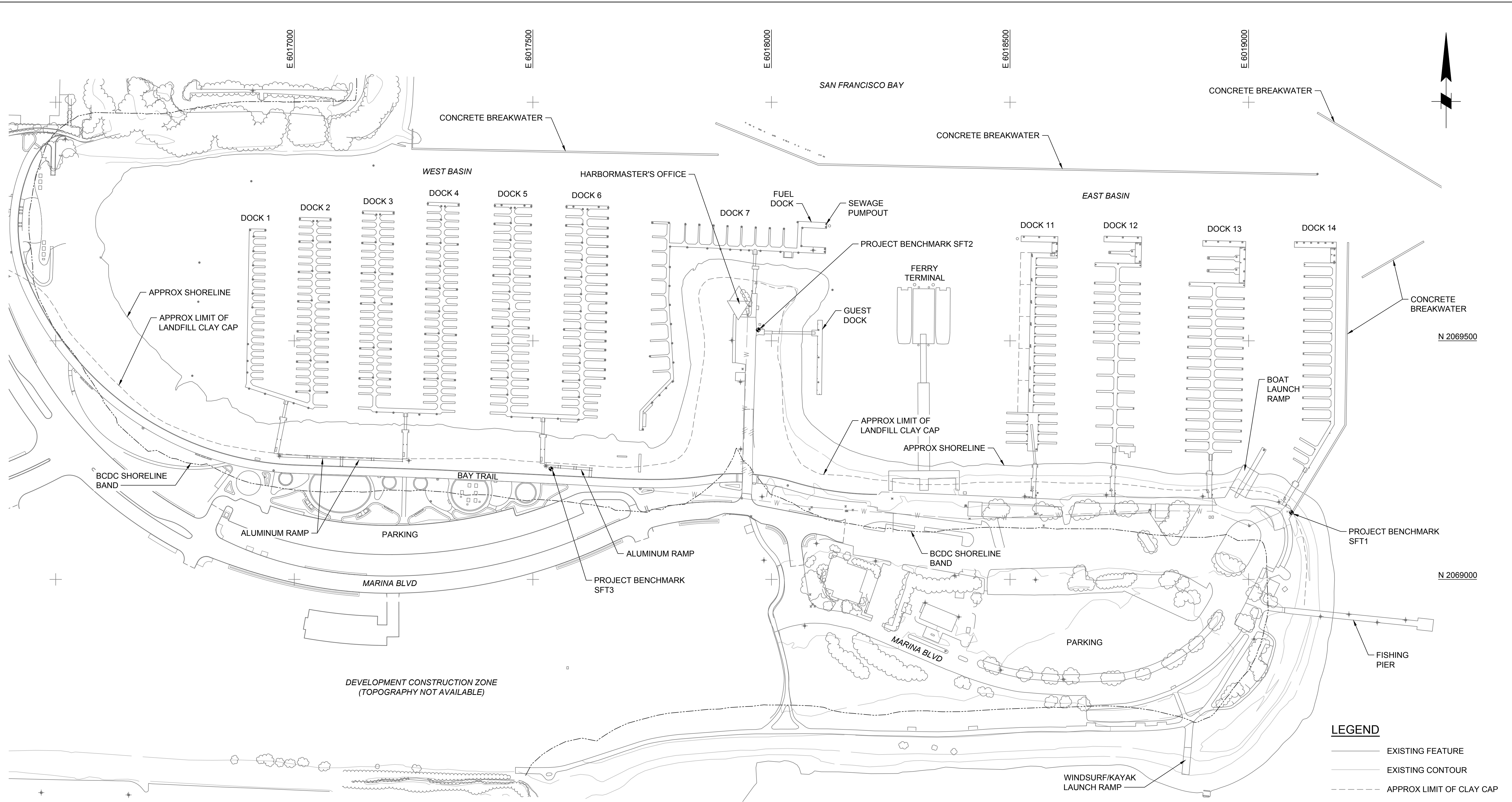
SAN MATEO COUNTY HARBOR DISTRICT

OYSTER POINT MARINA
WEST BASIN ACCESS IMPROVEMENTS

**GENERAL NOTES,
ABBREVIATIONS, AND LEGEND**

DATE	04-10-2024
SHEET	2 OF 25
G-002	

File: C:\WC\67-13 Oyster Pt Docks 12-14_CAD_Active_Sheets\West Basin Access Improvements\67-13-C-001 - Plotted: 4/10/2024 4:12 PM by PLESCHUK, ELENA, Saved: 8/11/2023 3:22 PM by WNWCHOLS



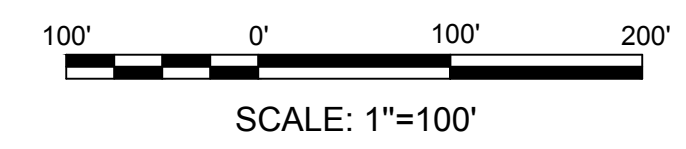
NOTES

- 1. ALL FEATURES SHOWN ARE EXISTING UNLESS OTHERWISE NOTED.

1 EXISTING SITE PLAN
SCALE: 1" = 100'

LEGEND

- EXISTING FEATURE
- EXISTING CONTOUR
- - - APPROX LIMIT OF CLAY CAP
- EXISTING PILE
- EXISTING GUIDE PILE

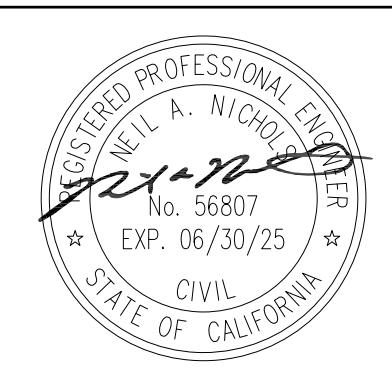


APRIL 10, 2024
BID SET



SAN MATEO COUNTY HARBOR DISTRICT
504 Avenue Alhambra, 2nd Floor
El Granada, CA 94018
(650) 741-9163

REVISION	DESCRIPTION	BY	DATE



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2185 N. CALIFORNIA BLVD.
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WALNUT CREEK, CA 94596

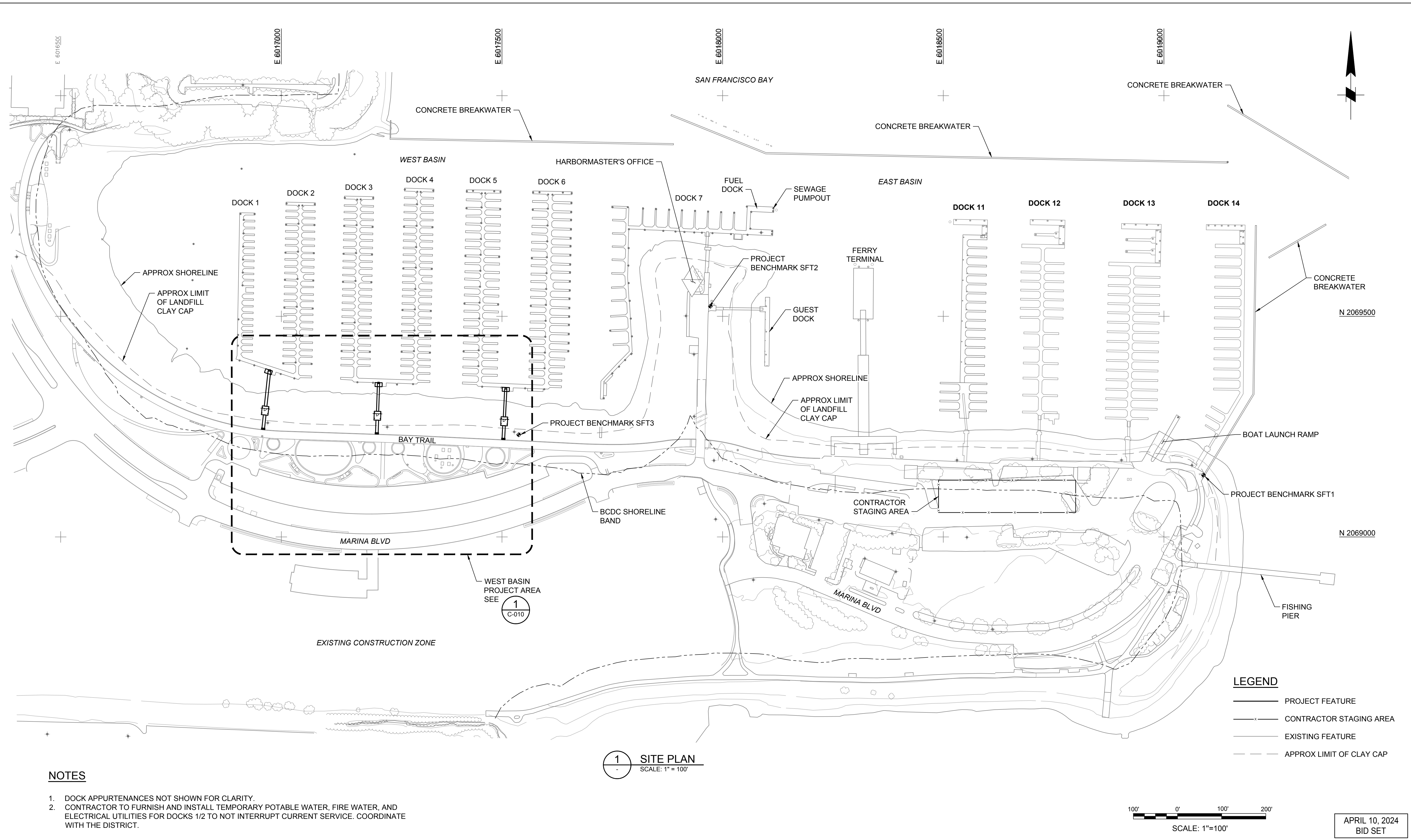
DSGN	NN	DR	EP/NN	CHK	BP/RD
JOB NO.	9673-13	SUBMITTED BY		TITLE	

SAN MATEO COUNTY HARBOR DISTRICT
OYSTER POINT MARINA
WEST BASIN ACCESS IMPROVEMENTS

EXISTING SITE PLAN

DATE	04-10-2024
SHEET	3 OF 25
	C-001

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NOTES

1. DOCK APPURTENANCES NOT SHOWN FOR CLARITY.
2. CONTRACTOR TO FURNISH AND INSTALL TEMPORARY POTABLE WATER, FIRE WATER, AND ELECTRICAL UTILITIES FOR DOCKS 1/2 TO NOT INTERRUPT CURRENT SERVICE. COORDINATE WITH THE DISTRICT.

1 SITE PLAN
SCALE: 1" = 100'

LEGEND

- PROJECT FEATURE
- - - CONTRACTOR STAGING AREA
- ... EXISTING FEATURE
- · - · - APPROX LIMIT OF CLAY CAP

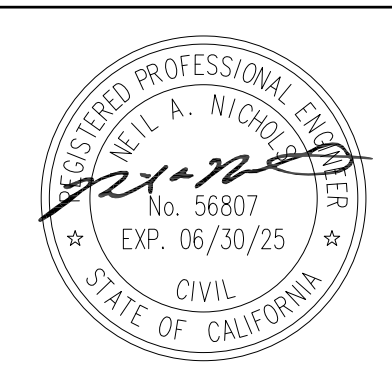
100' 0' 100' 200'
SCALE: 1"=100'

APRIL 10, 2024
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SAN MATEO COUNTY HARBOR DISTRICT
504 Avenue Alhambra, 2nd Floor
El Granada, CA 94018
(650) 741-9163

REVISION	DESCRIPTION	BY	DATE

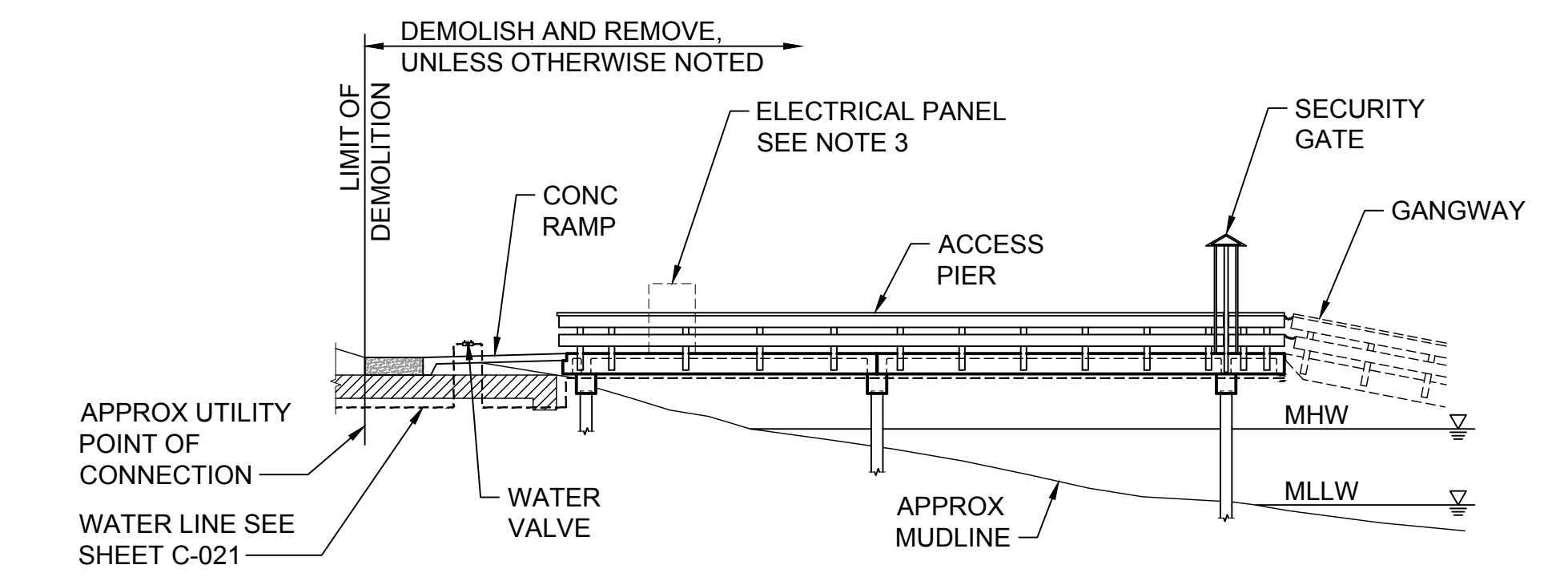
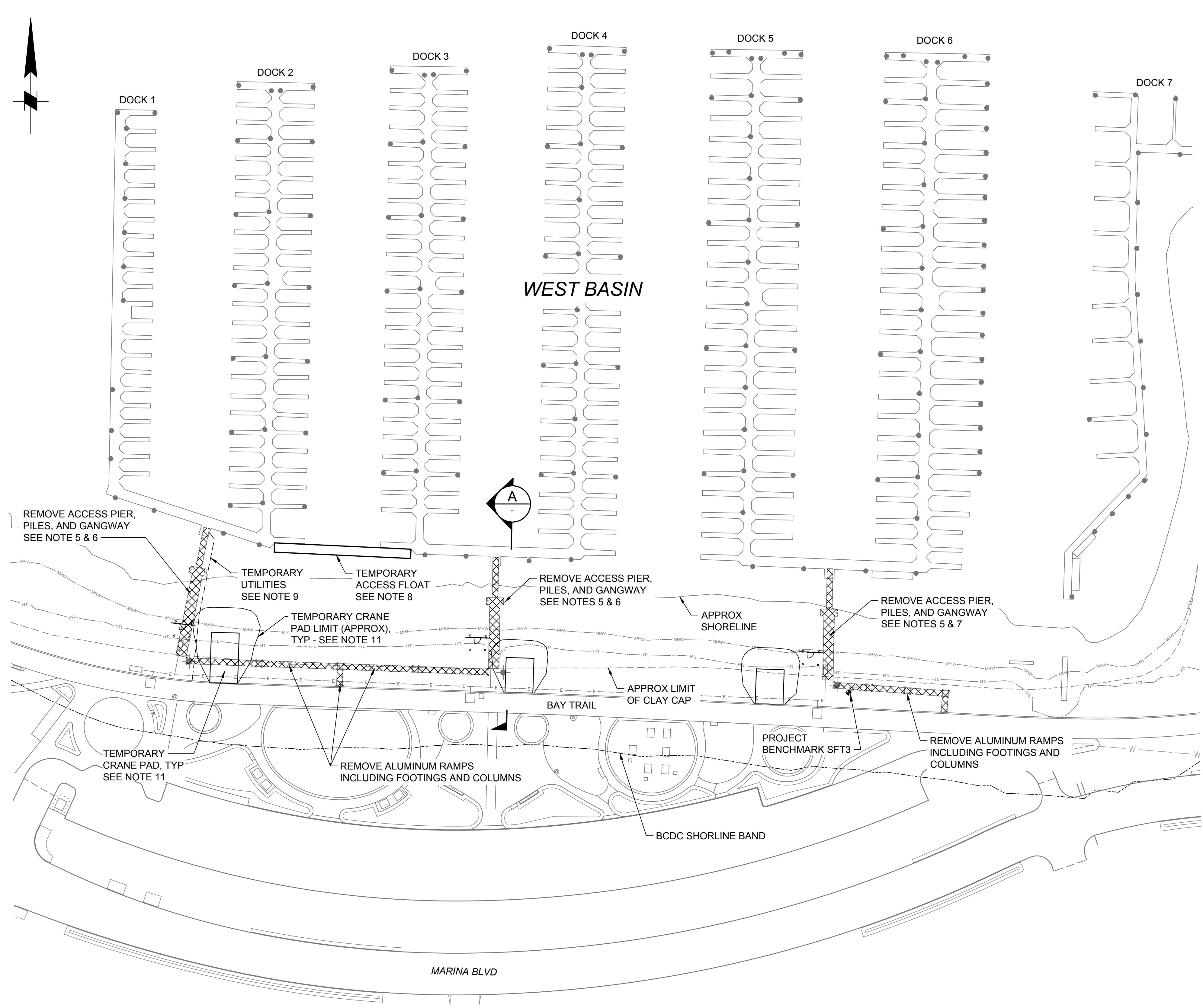


moffatt & nichol
2185 N. CALIFORNIA BLVD.
SUITE 500
WALNUT CREEK, CA 94596

DSGN	NN	DR	EP/NN	CHK	BP/RD
JOB NO.	9673-13	SUBMITTED BY		TITLE	

SAN MATEO COUNTY HARBOR DISTRICT		DATE	04-10-2024
OYSTER POINT MARINA WEST BASIN ACCESS IMPROVEMENTS		SHEET	4 OF 25
SITE PLAN		C-002	

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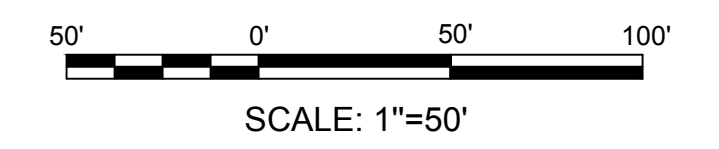


A ELEVATION - TYPICAL PIER AND GANGWAY DEMOLITION
SCALE: NTS

- LEGEND**
- DEMOLISH AND REMOVE (IN PLAN)
 - MHW - MHW
 - HTL - HTL
 - EXISTING FEATURE
 - APPROX LIMIT OF CLAY CAP
 - EXISTING PILE

- NOTES**
1. FEATURES SHOWN ON THIS SHEET ARE EXISTING OR TEMPORARY. TEMPORARY FEATURES AND FACILITIES SHALL BE REMOVED AT COMPLETION OF CONSTRUCTION.
 2. ALL DIMENSIONS SHOWN ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.
 3. DEMOLISH WATER LINE, ELECTRICAL, CTV, AND TELEPHONE UTILITIES TO LANDSIDE AND DOCKSIDE POINTS OF CONNECTION.
 4. THE SITE IS UNDERLAIN BY A LANDFILL WITH A CLAY CAP. THE APPROXIMATE LIMIT OF THE CLAY CAP IS SHOWN. DEMOLITION AND CONSTRUCTION OPERATIONS ARE NOT EXPECTED TO IMPACT THE CLAY CAP. IF CONSTRUCTION OPERATIONS ENCOUNTER THE CLAY CAP, THE CONTRACTOR SHALL NOTIFY THE DISTRICT IMMEDIATELY.
 5. PILES TO BE REMOVED INCLUDE:
 - DOCKS 1/2 - FOUR ACCESS PLATFORM SUPPORT PILES
 - DOCKS 3/4 - FOUR ACCESS PLATFORM SUPPORT PILES
 - DOCKS 5/6 - FOUR ACCESS PLATFORM SUPPORT PILES
 6. DEMOLISH EXISTING ACCESS PLATFORM FOR DOCKS 1/2 BEFORE CONSTRUCTION OF NEW ACCESS PLATFORM FOR DOCKS 1/2.
 7. DEMOLISH EXISTING ACCESS PLATFORM FOR DOCKS 3/4 AFTER CONSTRUCTION OF NEW ACCESS PLATFORM FOR DOCKS 3/4.
 8. DEMOLISH EXISTING ACCESS PLATFORM FOR DOCKS 5/6 AFTER CONSTRUCTION OF THE NEW ACCESS PLATFORM FOR DOCKS 5/6.
 9. PROVIDE AN 8' WIDE TEMPORARY FLOAT CONNECTING DOCK 2 AND DOCK 3 DURING CONSTRUCTION TO MAINTAIN ACCESS TO DOCKS 1/2 AND DOCKS 3/4.
 10. PROVIDE TEMPORARY UTILITIES FOR DOCKS 1/2 DURING CONSTRUCTION. CONTRACTOR SHALL COORDINATE TEMPORARY UTILITY LAYOUT WITH THE DISTRICT.
 11. TEMPORARY CRANE PADS SHALL BE 24' WIDE X 30' LONG (DOCKS 3/4 AND 5/6) AND 24' WIDE X 45' LONG (DOCK 1/2). CRANE PAD SHALL BE CONSTRUCTED OF GRAVEL AND SHALL BE COMPLETELY REMOVED PER PERMIT REQUIREMENTS.

1 PLAN - DEMOLITION & TEMPORARY FACILITIES
SCALE: 1" = 50'



APRIL 10, 2024
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504 Avenue Alhambra, 2nd Floor
El Granada, CA 94018
(650) 741-9163

REVISION	DESCRIPTION	BY	DATE



moffatt & nichol
2185 N. CALIFORNIA BLVD.
SUITE 500
WALNUT CREEK, CA 94596

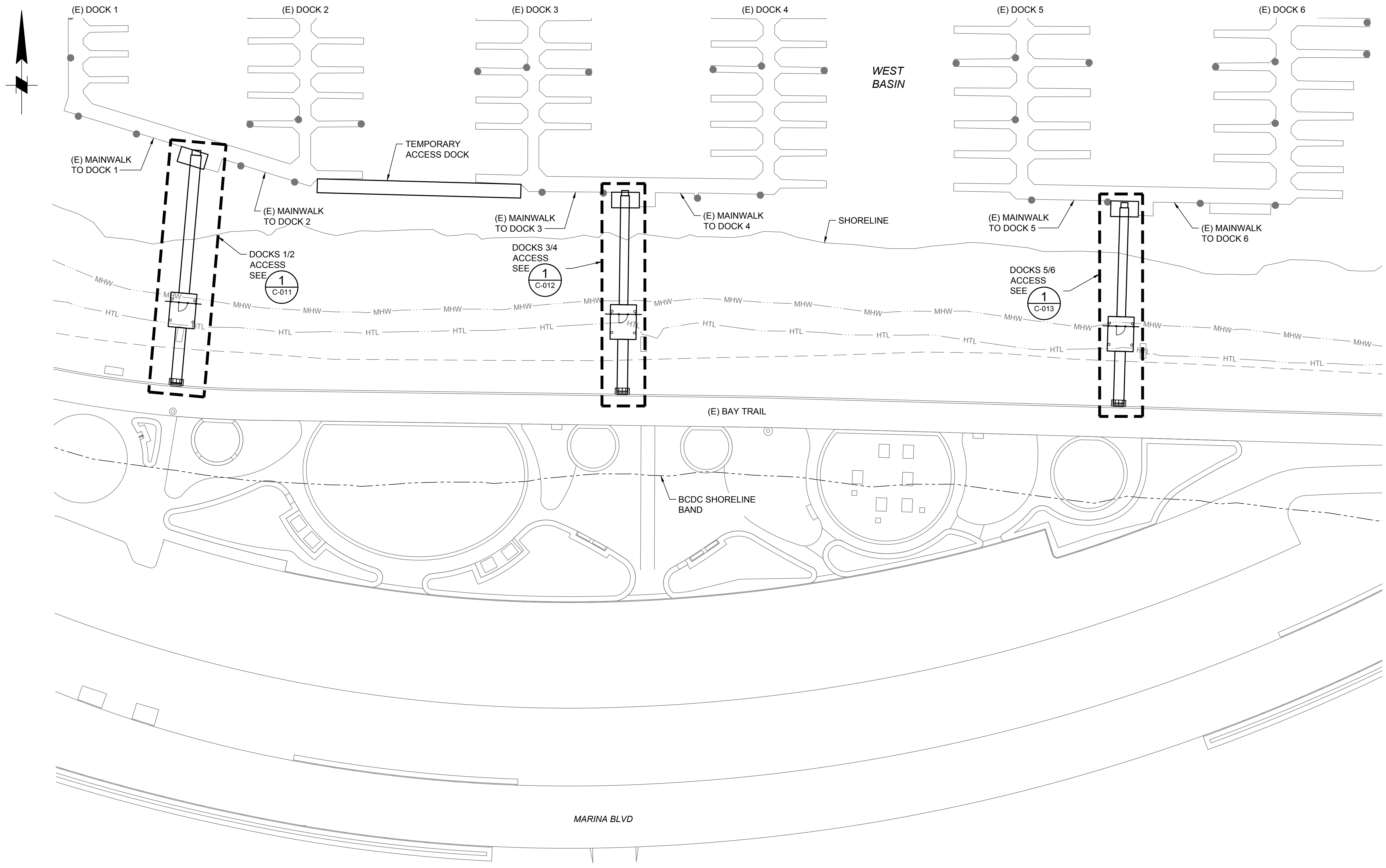
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JOB NO.	9673-13	SUBMITTED BY		TITLE	

SAN MATEO COUNTY HARBOR DISTRICT
OYSTER POINT MARINA
WEST BASIN ACCESS IMPROVEMENTS

DEMOLITION & TEMPORARY FACILITIES PLAN

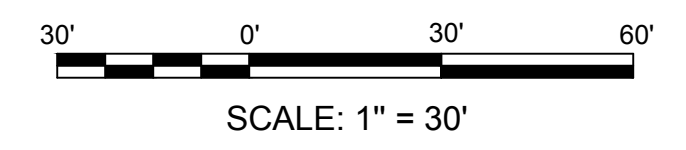
DATE	04-10-2024
SHEET	5 OF 25
C-003	

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LEGEND

- MHW — MHW
- HTL — HTL
- PROJECT FEATURE
- EXISTING FEATURE
- ◻ ● EXISTING PILE
- 16" SQUARE PILE



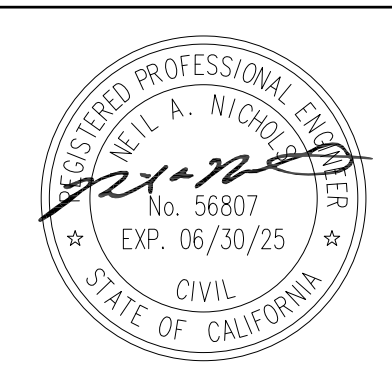
1 DOCK ACCESS PLAN
SCALE: 1" = 30'

APRIL 10, 2024
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(650) 741-9163

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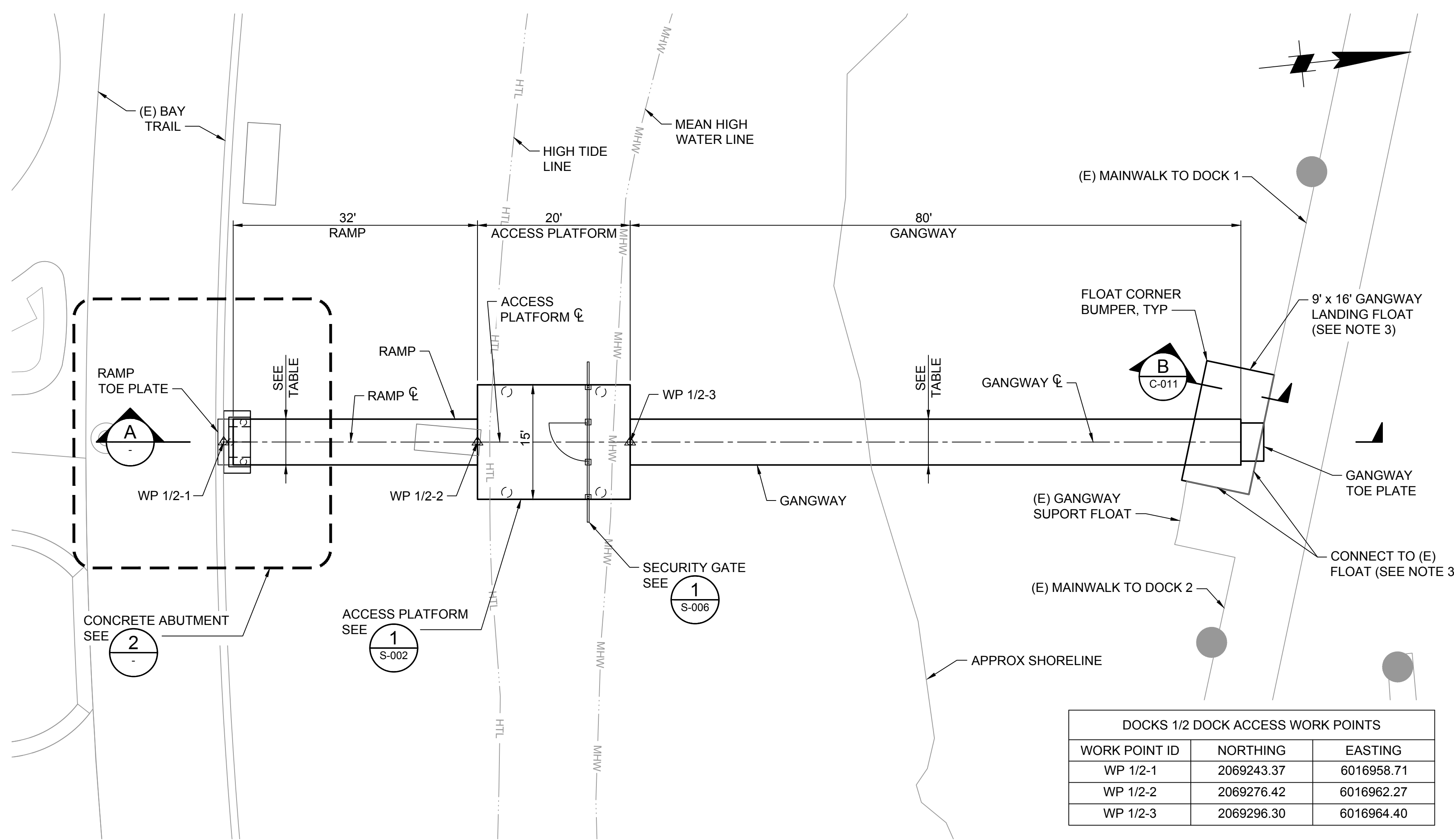
moffatt & nichol
2185 N. CALIFORNIA BLVD.
SUITE 500
WALNUT CREEK, CA 94596

DSGN	NN	DR	EP/NN	CHK	BP/RD
JOB NO.	9673-13	SUBMITTED BY		TITLE	

SAN MATEO COUNTY HARBOR DISTRICT
OYSTER POINT MARINA
WEST BASIN ACCESS IMPROVEMENTS

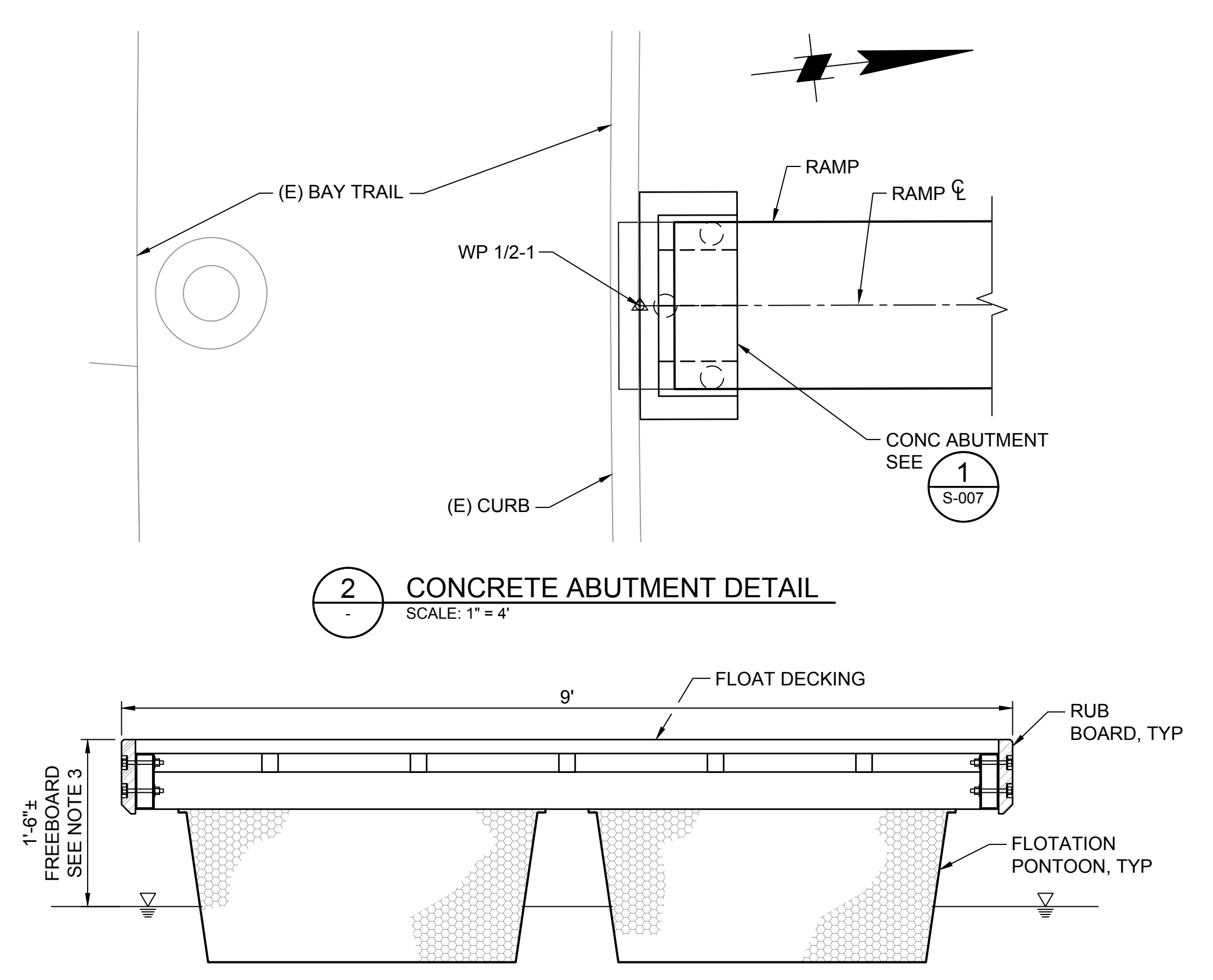
DATE	04-10-2024
SHEET	6 OF 25
DOCK ACCESS PLAN	C-010

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1 DOCKS 1 AND 2 DOCK ACCESS PLAN
SCALE: 1" = 10'

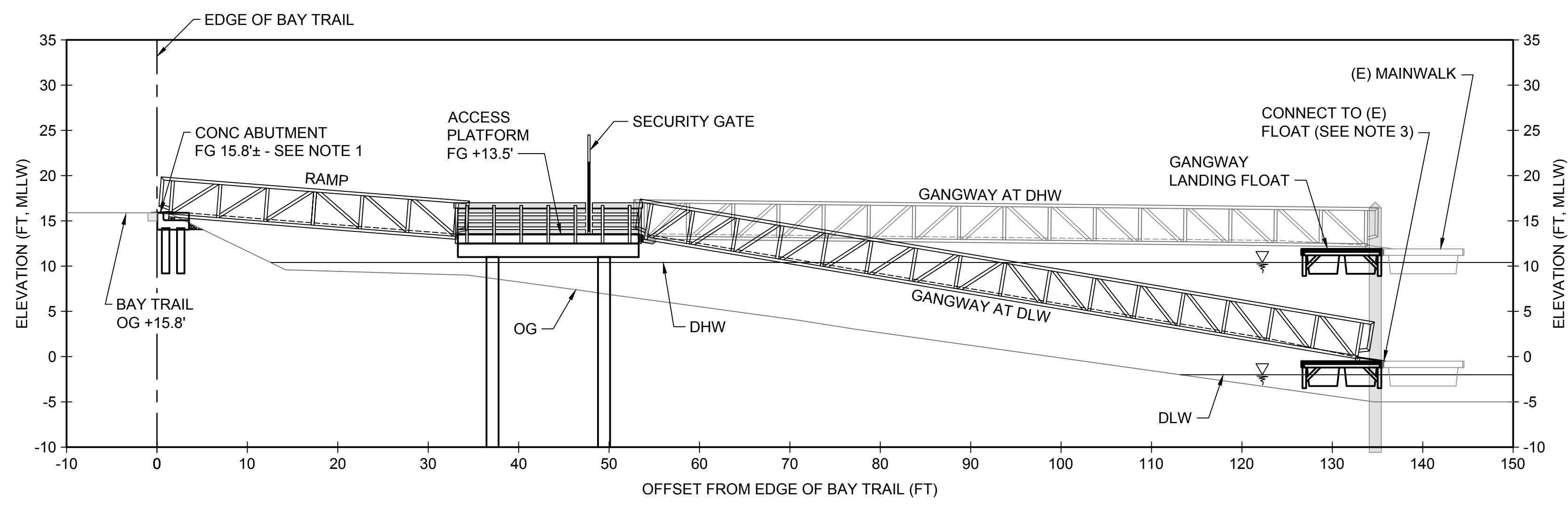
DOCKS 1/2 DOCK ACCESS WORK POINTS		
WORK POINT ID	NORTHING	EASTING
WP 1/2-1	2069243.37	6016958.71
WP 1/2-2	2069276.42	6016962.27
WP 1/2-3	2069296.30	6016964.40



2 CONCRETE ABUTMENT DETAIL
SCALE: 1" = 4'

B TYPICAL GANGWAY LANDING FLOAT
SCALE: NTS

TABLE: RAMP & GANGWAY WIDTH		
LOCATION	OVERALL WIDTH	CLEAR WIDTH
RAMP	6'-0"	5'-0"
GANGWAY	6'-0"	5'-0"

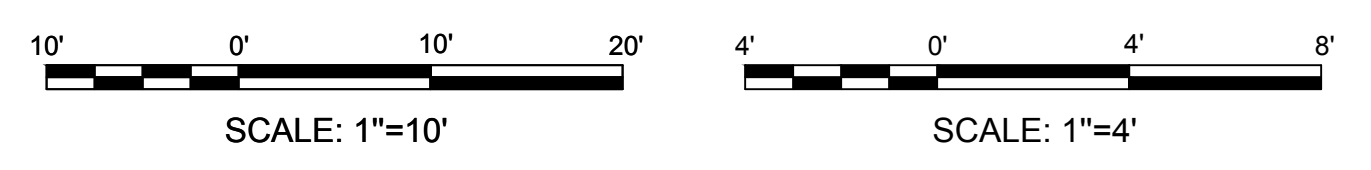


A DOCKS 1 AND 2 DOCK ACCESS ELEVATION
SCALE: 1" = 10'

LEGEND

- MHW
- HTL
- PROJECT FEATURE
- 16" SQUARE PILE
- EXISTING FEATURE
- EXISTING CONTOUR
- EXISTING PILE
- SECURITY GATE

- NOTES**
- ELEVATION SHOWN IS APPROXIMATE ONLY. MATCH EXISTING ELEVATION OF ADJACENT EXISTING BAY TRAIL WALKING SURFACE.
 - PROVIDE 6-INCH MINIMUM GAP BETWEEN END OF RAMP AND ABUTMENT ENDWALL.
 - NEW GANGWAY LANDING FLOAT SHALL MATCH EXISTING FLOAT FREEBOARD. ATTACH NEW GANGWAY LANDING FLOAT TO EXISTING FLOAT AND PROVIDE ADDITIONAL FLOTATION AS NEEDED TO ENSURE THE COMPLETED LANDING AREA MEETS DBW REQUIREMENTS FOR FREEBOARD AND SLOPES.

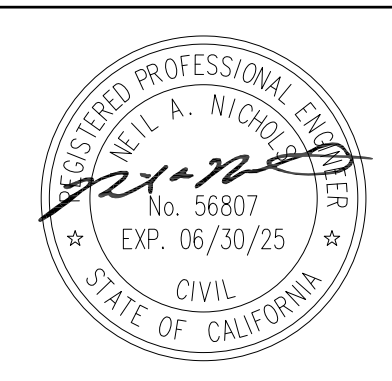


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BID SET



SAN MATEO COUNTY HARBOR DISTRICT
504 Avenue Alhambra, 2nd Floor
El Granada, CA 94018
(650) 741-9163

REVISION	DESCRIPTION	BY	DATE



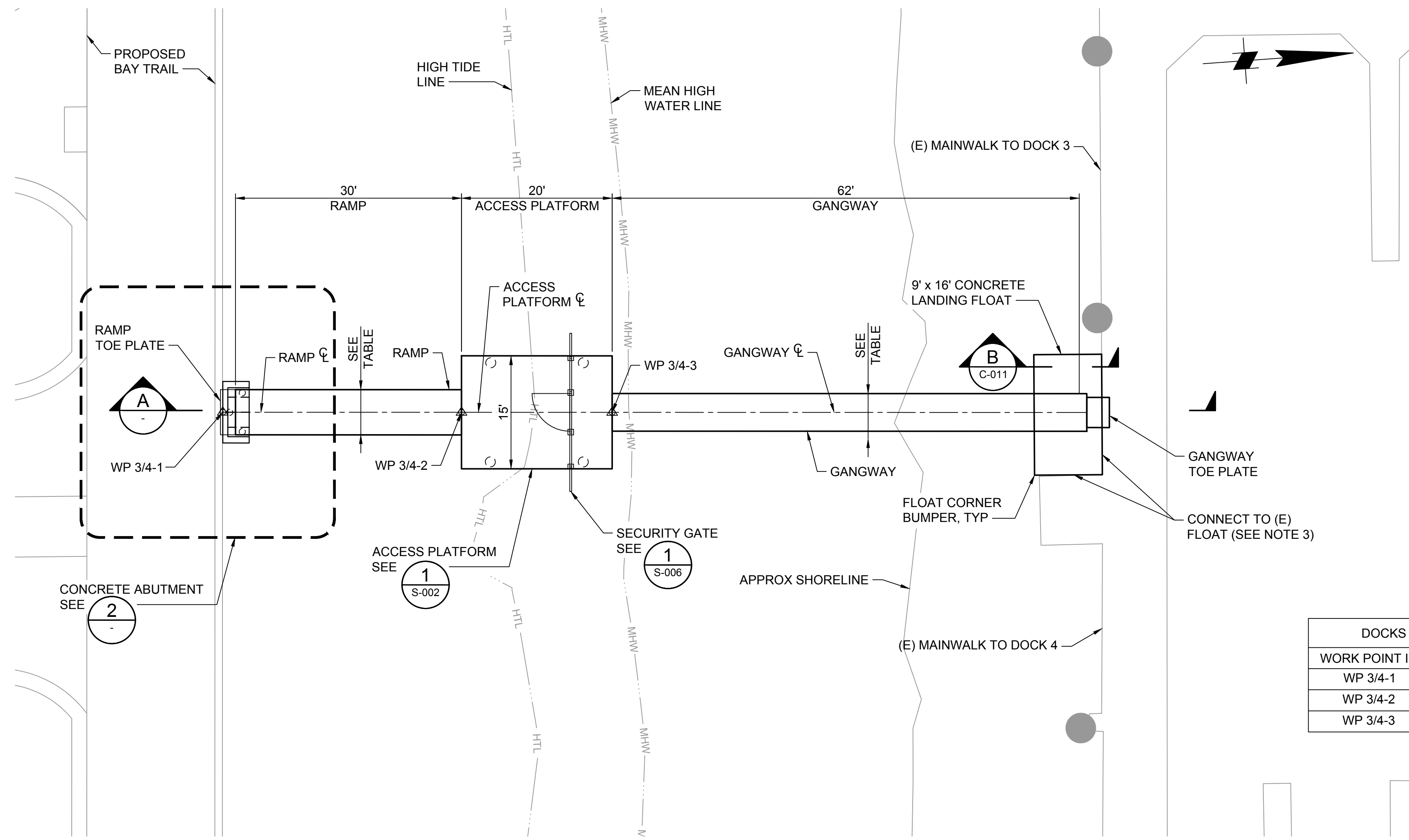
moftatt & nichol
2185 N. CALIFORNIA BLVD.
SUITE 500
WALNUT CREEK, CA 94596

DSGN	NN	DR	EP/NN	CHK	BP/RD
JOB NO.	9673-13	SUBMITTED BY		TITLE	

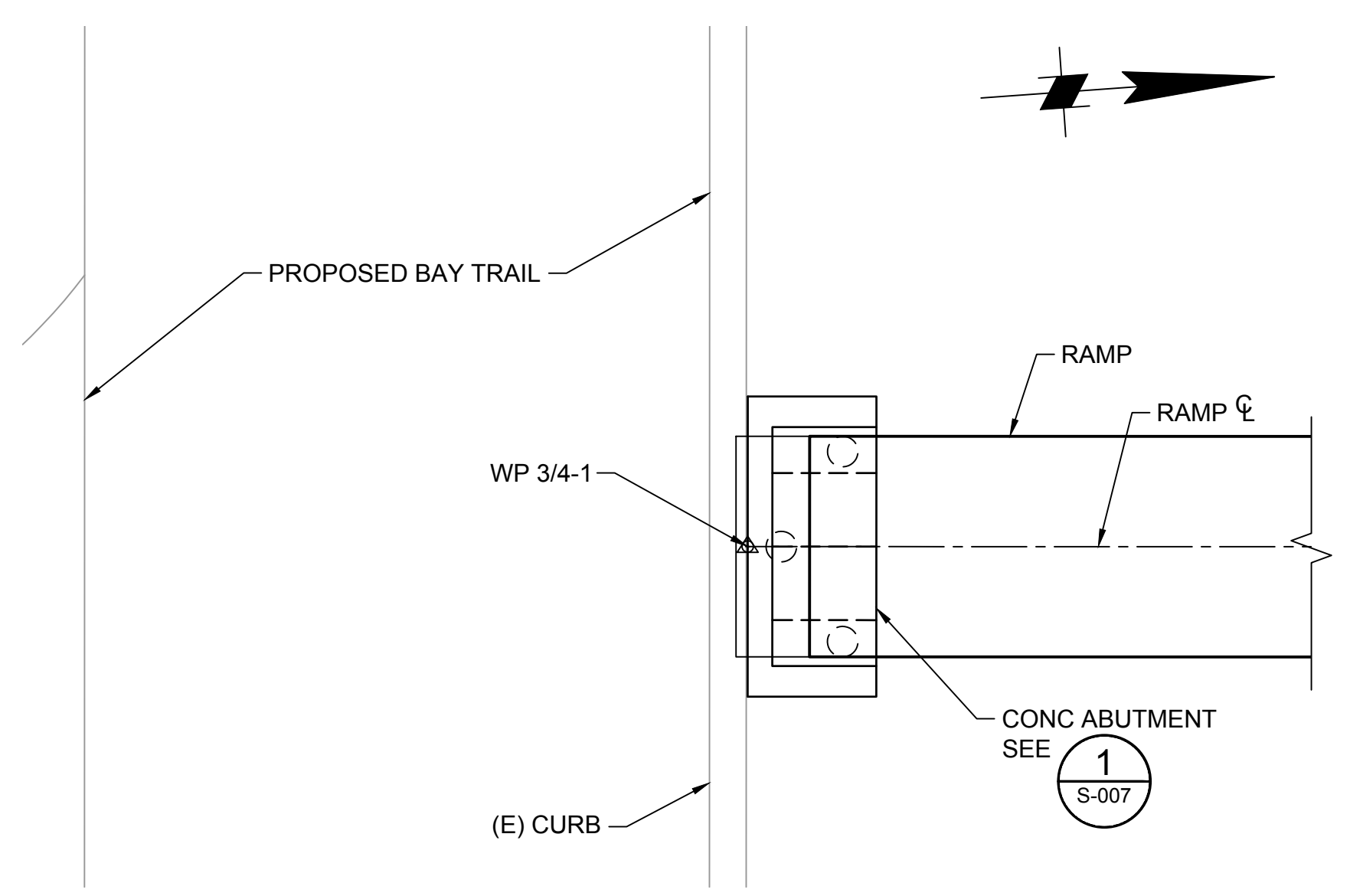
SAN MATEO COUNTY HARBOR DISTRICT
OYSTER POINT MARINA
WEST BASIN ACCESS IMPROVEMENTS
**DOCKS 1 & 2 - DOCK ACCESS
PLAN & ELEVATION**

DATE 04-10-2024
SHEET 7 OF 25
C-011

File: C:\WC\9673-13 Oyster Pt Docks 12-144_CADD_Active_Sheets\West Basin Access Improvements\9673_13-C-012_Plot.dwg, Plotted: 4/10/2024 4:13 PM by PLESCHCHUK, ELENA, Saved: 4/10/2024 3:10 PM by EPLESHCHUK



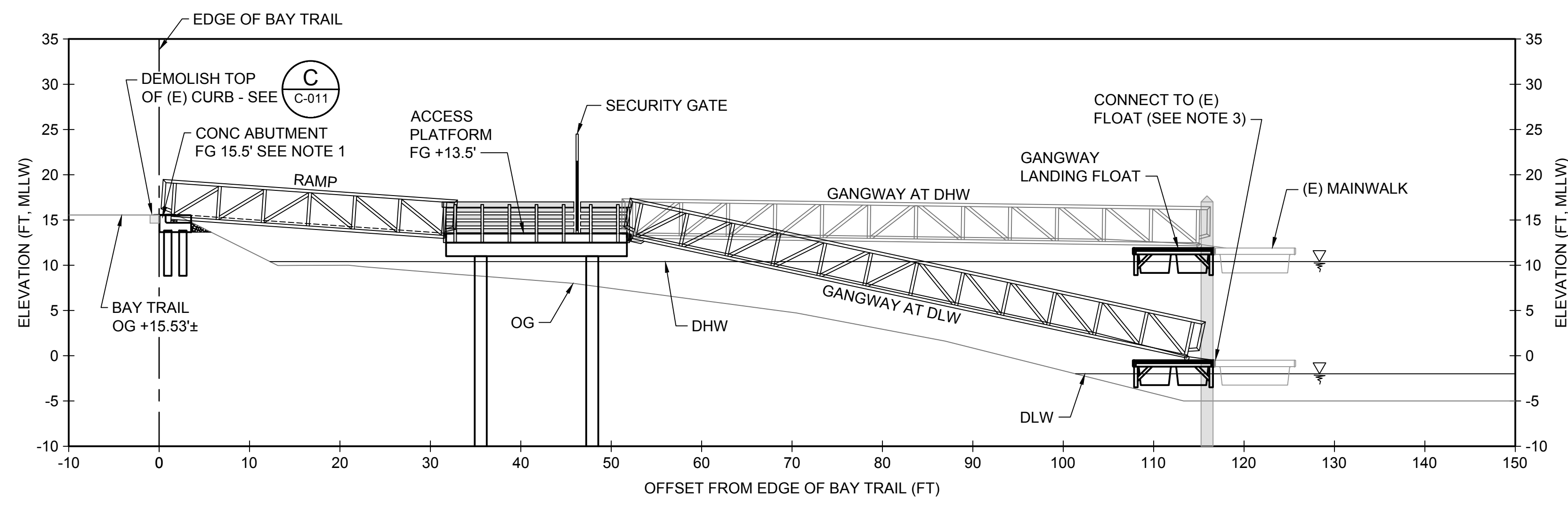
1 DOCKS 3 AND 4 DOCK ACCESS PLAN
SCALE: 1" = 10'



2 CONCRETE ABUTMENT DETAIL
SCALE: 1" = 4'

DOCKS 3/4 DOCK ACCESS WORK POINTS		
WORK POINT ID	NORTHING	EASTING
WP 3/4-1	2069232.99	6017216.40
WP 3/4-2	2069264.66	6017217.48
WP 3/4-3	2069284.64	6017218.15

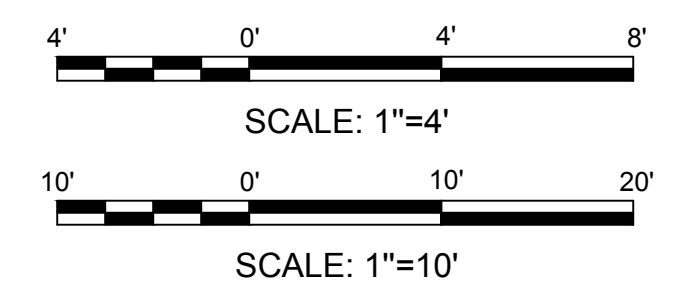
TABLE: RAMP & GANGWAY WIDTH		
LOCATION	OVERALL WIDTH	CLEAR WIDTH
RAMP	6'-0"	5'-0"
GANGWAY	5'-0"	4'-0"



A DOCKS 3 AND 4 DOCK ACCESS ELEVATION
SCALE: 1" = 10'

- LEGEND**
- MHW — MHW
 - HTL — HTL
 - PROJECT FEATURE
 - 16" SQUARE PILE
 - EXISTING FEATURE
 - EXISTING CONTOUR
 - EXISTING PILE
 - SECURITY GATE

- NOTES**
- SEE NOTES ON SHEET C-011.

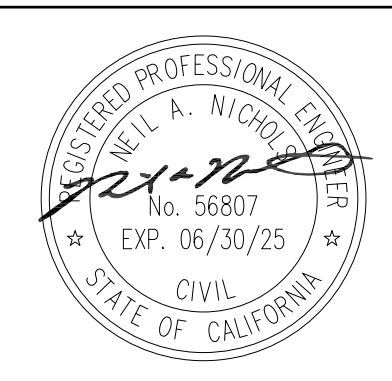


APRIL 10, 2024
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SAN MATEO COUNTY HARBOR DISTRICT
504 Avenue Alhambra, 2nd Floor
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moftatt & nichol
2185 N. CALIFORNIA BLVD.
SUITE 500
WALNUT CREEK, CA 94596

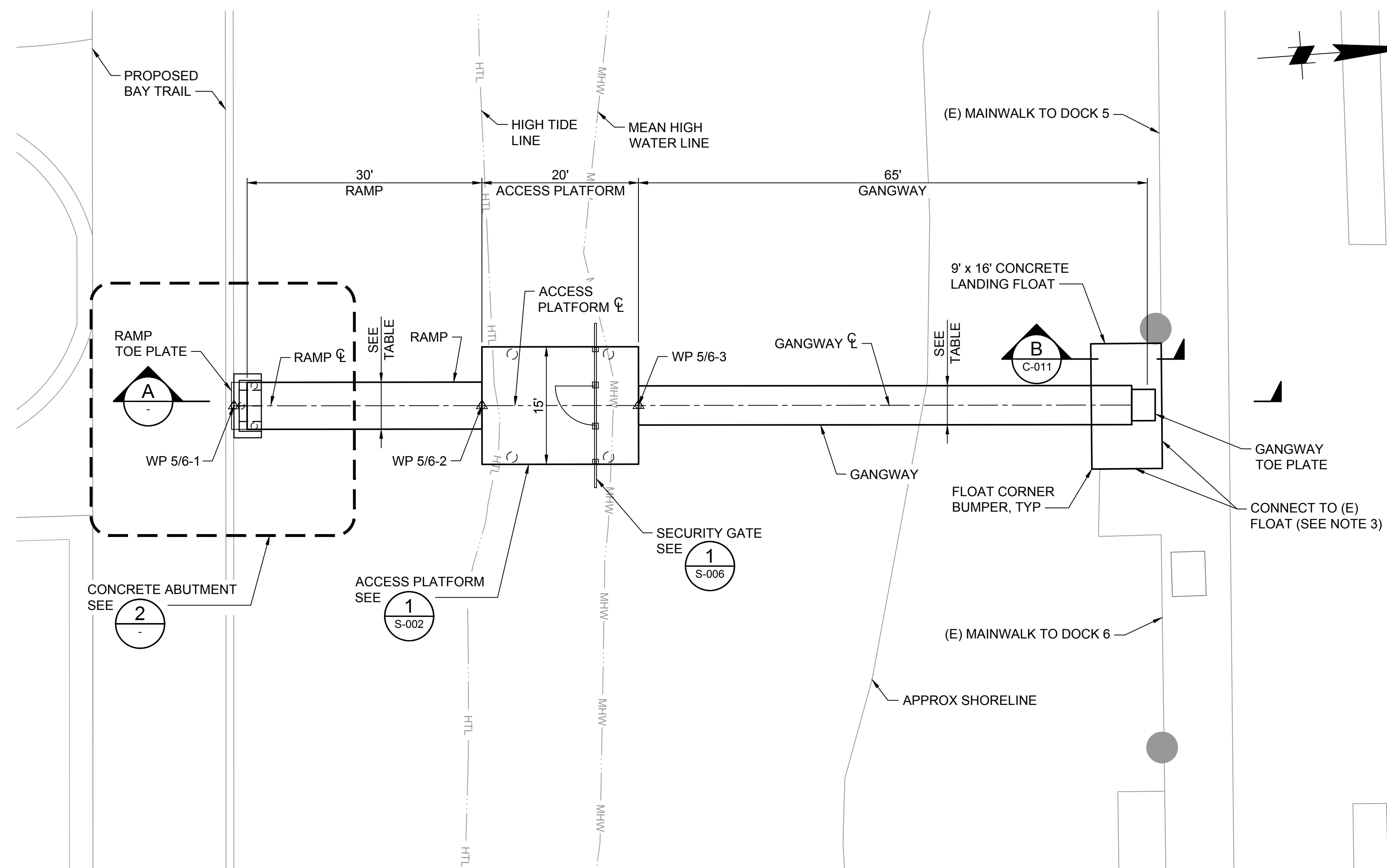
DSGN	NN	DR	EP/NN	CHK	BP/RD
JOB NO.	9673-13	SUBMITTED BY		TITLE	

SAN MATEO COUNTY HARBOR DISTRICT
OYSTER POINT MARINA
WEST BASIN ACCESS IMPROVEMENTS

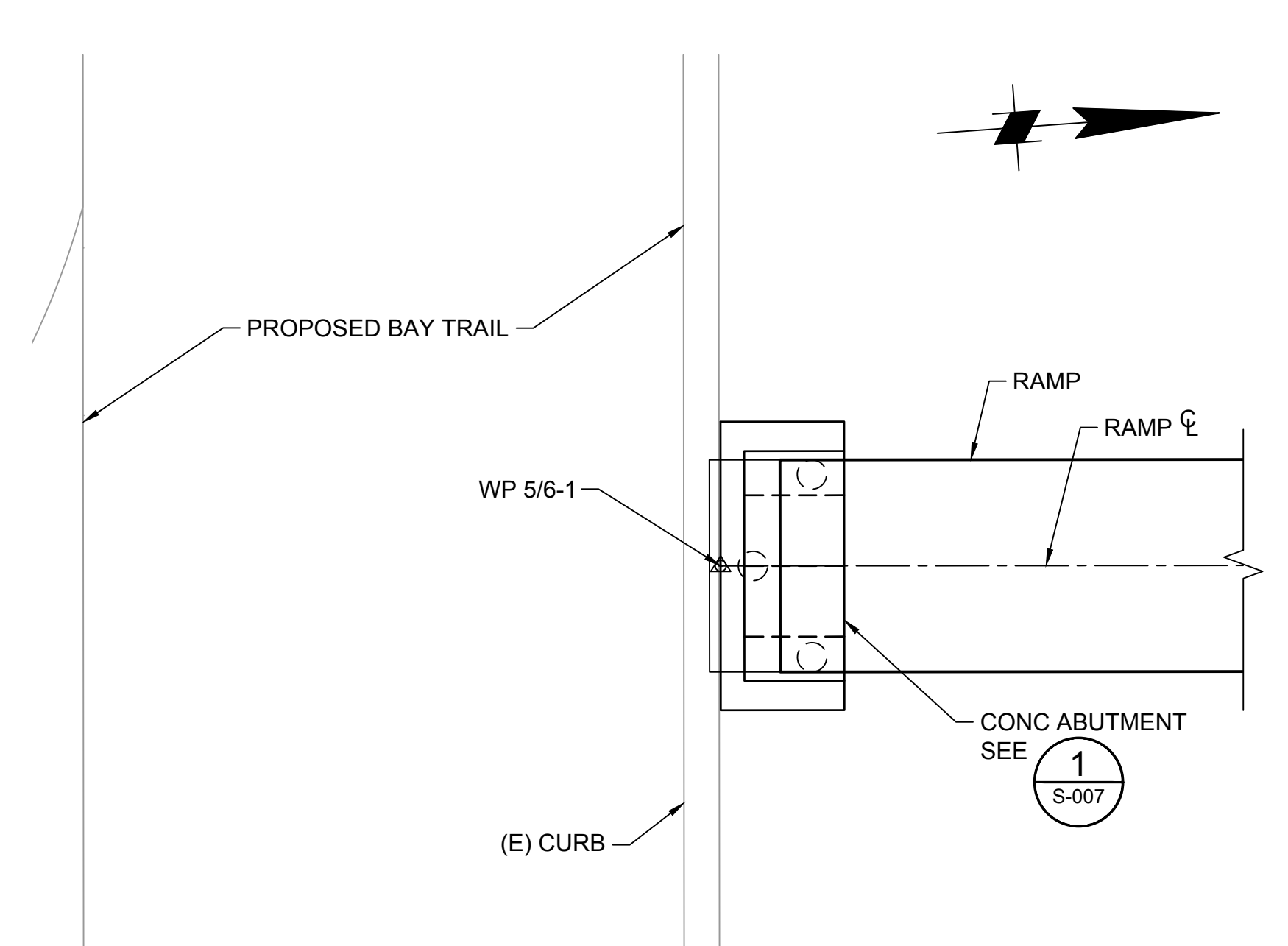
**DOCKS 3 & 4 - DOCK ACCESS
PLAN & ELEVATION**

DATE	04-10-2024
SHEET	8 OF 25
C-012	

File: C:\WC\67-13 Oyster Pt Docks 12-144_CAD_Active_Sheets\13-C-013_Plot\13-C-013_Plot.dwg, 4/10/2024 4:13 PM by PLESHCHUK, ELENA, Saved: 4/10/2024 4:11 PM by EPLESHCHUK



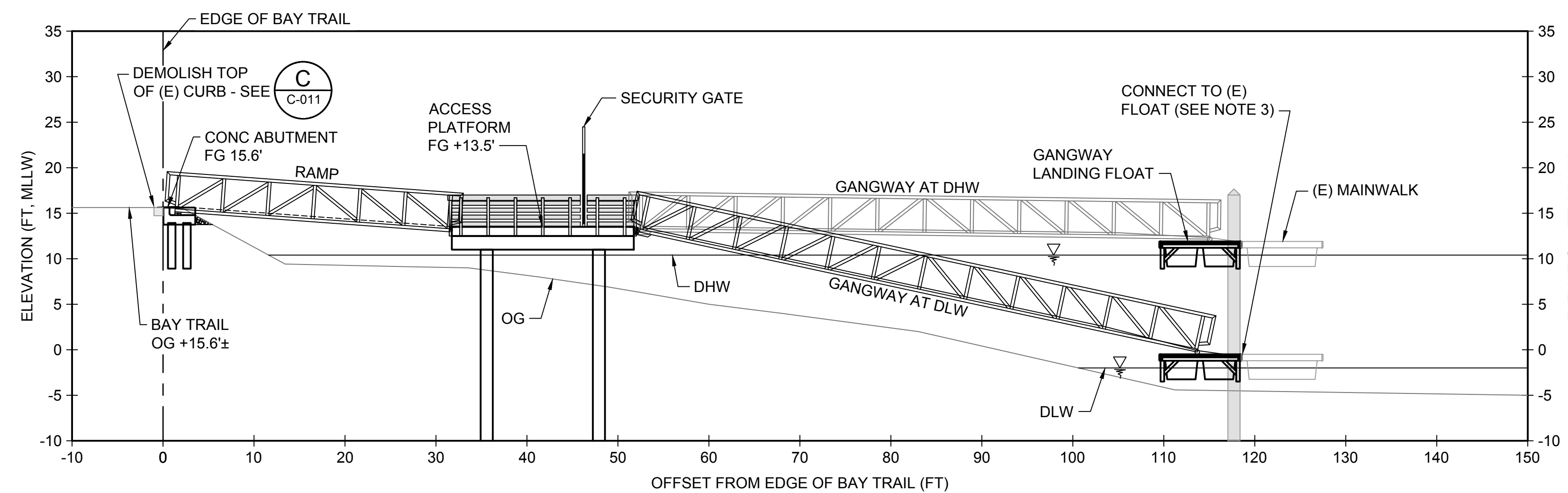
1 DOCKS 5/6 DOCK ACCESS PLAN
SCALE: 1" = 10'



2 CONCRETE ABUTMENT DETAIL
SCALE: 1" = 4'

DOCKS 5/6 DOCK ACCESS WORK POINTS		
WORK POINT ID	NORTHING	EASTING
WP 5/6-1	2069220.43	6017503.03
WP 5/6-2	2069252.08	6017504.58
WP 5/6-3	2069272.05	6017505.56

TABLE: RAMP & GANGWAY WIDTH		
LOCATION	OVERALL WIDTH	CLEAR WIDTH
RAMP	6'-0"	5'-0"
GANGWAY	5'-0"	4'-0"



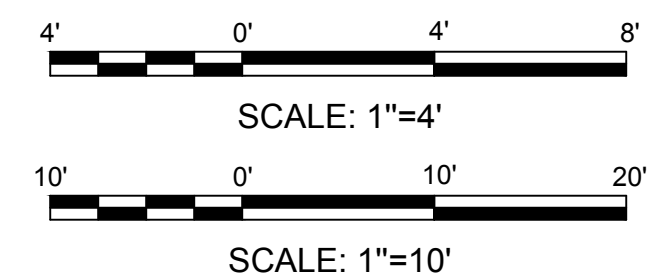
A DOCKS 5/6 DOCK ACCESS ELEVATION
SCALE: 1" = 10'

LEGEND

- MHW — MHW
- HTL — HTL
- PROJECT FEATURE
- 16" SQUARE PILE
- EXISTING FEATURE
- EXISTING CONTOUR
- EXISTING PILE
- SECURITY GATE

NOTES

- SEE NOTES ON SHEET C-011.

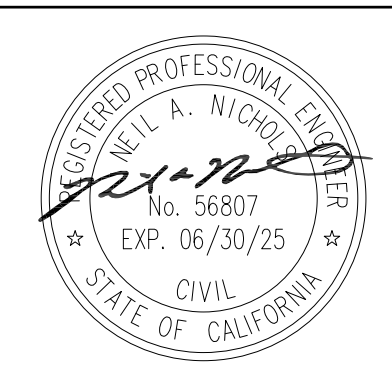


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REVISION	DESCRIPTION	BY	DATE



moffatt & nichol
2185 N. CALIFORNIA BLVD.
SUITE 500
WALNUT CREEK, CA 94596

DSGN	NN	DR	EP/NN	CHK	BP/RD
JOB NO.	9673-13	SUBMITTED BY		TITLE	

SAN MATEO COUNTY HARBOR DISTRICT
OYSTER POINT MARINA
WEST BASIN ACCESS IMPROVEMENTS

**DOCKS 5 & 6 - DOCK ACCESS
PLAN & ELEVATION**

DATE	04-10-2024
SHEET	9 OF 25
C-013	

File: C:\M\C\9673-13 Oyster Pt Docks 12-144_CADD_Active_Sheets\West Basin Access Improvements\9673_13-C-020_Plottext_4/10/2024 4:13 PM by PLESCHCHUK, ELENA, Saved: 3/14/2024 9:38 AM by NNICHOLS

GENERAL NOTES

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST CITY OF SOUTH SAN FRANCISCO MECHANICAL AND PLUMBING CODES, FEDERAL, AND STATE CODES, RULES, REGULATIONS, STANDARDS, AND PER MANUFACTURER'S RECOMMENDATIONS.
- ALL EQUIPMENT AND MATERIALS SHALL BE UL LISTED AND APPROVED FOR USE IN CALIFORNIA AND THE CITY OF SOUTH SAN FRANCISCO BUILDING AND SAFETY DEPARTMENT.
- THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS, ELEVATIONS, AND CHARACTERISTICS OF ALL UTILITIES AND PIPING AND IMMEDIATELY NOTIFY THE DISTRICT'S REPRESENTATIVE OF ANY DISCREPANCIES.
- CONTRACTOR SHALL EXAMINE AND BECOME ACQUAINTED WITH THE EXISTING CONSTRUCTION AND THE CONDITIONS UNDER WHICH THE WORK IS TO BE CARRIED OUT. THE CONTRACTOR SHALL MAKE ACCURATE FIELD DIMENSIONS OF ALL RELATED WORK AREAS, SPACES, OPENINGS, LEVELS, AND ITEMS OF ADJACENT WORK. BEFORE COMMENCING WORK THE CONTRACTOR SHALL REPORT TO THE DISTRICT'S REPRESENTATIVE IN WRITING ALL DISCREPANCIES BETWEEN THE CONTRACT DOCUMENTS AND THE ACTUAL FIELD CONDITIONS. COMMENCEMENT OF WORK SHALL CONSTITUTE ACCEPTANCE OF ALL EXISTING CONDITIONS AFFECTING THE WORK.
- PLUMBING WORK SHALL BE INSTALLED SO AS TO AVOID STRUCTURAL FRAMING.
- ALL ABOVE GROUND PIPING SHALL BE PAINTED A COLOR CHOSEN BY THE DISTRICT.
- ALL CLEAN OUTS SHALL BE INSTALLED WHERE READILY ACCESSIBLE. THE CONTRACTOR SHALL COORDINATE ALL CLEAN OUT LOCATIONS WITH EQUIPMENT, CABINETS, ETC., WITH THE DISTRICT'S REPRESENTATIVE PRIOR TO ANY INSTALLATION.
- UNIONS SHALL BE PROVIDED AND INSTALLED FOR EACH SCREW - TYPE VALVE AND EQUIPMENT CONNECTION.
- BEFORE FABRICATION OR INSTALLATION, THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT AND EQUIPMENT PROVIDED BY OTHER TRADES. EXACT ROUGH-IN LOCATIONS AND REQUIREMENTS SHALL BE DETERMINED IN THE FIELD.
- STRUCTURAL PENETRATIONS FOR UTILITIES SHALL NOT BE ALLOWED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND REPAIRING ALL AREAS WHICH ARE EXCAVATED AND/OR DAMAGED BY THEIR OPERATIONS. THE CONTRACTOR SHALL RESTORE THESE AREAS TO ORIGINAL CONDITION WITHOUT COST TO THE DISTRICT.
- ALL CUTTING OF EXISTING PAVING, WALKWAYS AND/OR FLOORS SHALL BE BY MACHINE SAWCUT.
- COORDINATE WORK WITH OTHER TRADES.
- ALL WORK SHOWN IS NEW UNLESS NOTED AS EXISTING.
- PROVIDE DIELECTRIC PROTECTION AT CONNECTIONS BETWEEN DISSIMILAR METALS.

FIRE PROTECTION NOTES

- FIRE PROTECTION PLANS SHALL BE APPROVED BY THE LOCAL FIRE MARSHALL PRIOR TO THE INSTALLATION OF ANY PIPE. DURING CONSTRUCTION, A SET OF APPROVED PLANS SHALL BE MAINTAINED AT ALL TIMES ON THE JOB SITE.
- HDPE PIPING SHALL BE TESTED IN ACCORDANCE WITH ASTM F2164. COMPLETED WORK SHALL BE SUBJECTED TO A FIRE WATER PRESSURE TEST OF 200 PSI FOR TWO HOURS, DURING WHICH THERE IS TO BE NO REDUCTION IN TEST PRESSURE. IF A REDUCTION SHOULD OCCUR, LEAK(S) SHALL BE LOCATED, REPAIRED AND THE TEST REPEATED. IN ADDITION, ALL NEWLY INSTALLED FIRE SERVICE LINES SHALL PASS HYDROSTATIC AND HYDRODYNAMIC TESTING REQUIREMENTS AS PERFORMED BY THE LOCAL FIRE MARSHAL.
- THE SYSTEM SHALL ONLY EMPLOY THE USE OF APPROVED MATERIALS AND DEVICES OF NO LESS THAN 200 PSI RATED WORKING PRESSURE. FW PIPING SHALL BE HDPE DR 11 FOR UNDERGROUND OR PROTECTED LOCATIONS. OTHERWISE IT SHALL BE STAINLESS STEEL FOR THE EXPOSED ABOVEGROUND APPLICATIONS OR DUCTILE IRON WHERE BURIED AS INDICATED ON THE DRAWINGS.
- ONE 10 POUND MINIMUM FIRE EXTINGUISHER HAVING A MINIMUM RATING OF 4A-60B:C SHALL BE PROVIDED AT EACH FIRE HOSE CABINET.
- PIPING MATERIAL & FIREWATER SYSTEM SHALL BE IN COMPLIANCE WITH NFPA 14, NFPA 303, LOS ANGELES COUNTY FIRE CODE, AND REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION. ALL MATERIALS SHALL BE UL LISTED WHERE AVAILABLE.
- THE FLOATING DOCK FIRE PROTECTION SYSTEM SHALL BE A CLASS II WET STANDPIPE SYSTEM, PER NFPA 14. THE PRE-FABRICATED FLOATING BUILDINGS WILL HAVE A SEPARATE FIRE SYSTEM AND SHALL BE A WET SPRINKLER SYSTEM. THE WET SPRINKLER SYSTEM TO BE PERMITTED SEPARATELY UNDER THE STATE OF CALIFORNIA DIVISION OF STATE ARCHITECT (DSA) AND STATE DEPARTMENT OF HOUSING COMMUNITY DEVELOPMENT (HCD).
- FLEXIBLE HOSE CONNECTIONS AT GANGWAY SHALL BE FACTORY ASSEMBLED LENGTHS OF ANNUFLEX OR APPROVED EQUAL, 3/4" DYNAMIC MIN BEND RADIUS ON A 8" HOSE, 250 PSI MIN WORKING PRESSURE WITH MARINE STAINLESS STEEL COUPLINGS EACH END.
- MAXIMUM DISTANCE OF ABOVEGROUND PIPE BETWEEN PIPE SUPPORTS (PER NFPA) SHALL NOT EXCEED THE FOLLOWING UNO:

NOMINAL PIPE SIZE	SS PIPE SPAN, FEET	HDPE PIPE SPAN, FEET
10"	15	8
8"	15	8
6"	15	8
4"	15	7
3"	15	5
2.5"	15	5

LEGEND AND ABBREVIATIONS

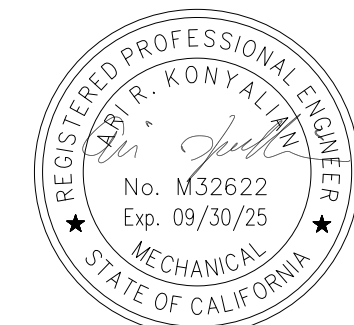
SYMBOLS	ABBREV	DESCRIPTION
∅		DIAMETER
	AHJ	AUTHORITY HAVING JURISDICTION
	ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
	ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
	BFP	BACKFLOW PREVENTION DEVICE
	BV	BALL VALVE
	CONN	CONNECTION
	CONT	CONTINUATION
	CPVC	CHLORINATED POLYVINYL CHLORIDE PIPE
	CU	COPPER
	DEPT	DEPARTMENT
	DIP	DUCTILE IRON PIPE
	DWG	DRAWING
	ELL	ELBOW
	EXIST	EXISTING
	FDC	FIRE DEPARTMENT CONNECTION
	FEC	FIRE EXTINGUISHER CABINET
	FW	FIRE WATER
	FS	FIREWATER SYSTEM
	FT	FEET
	GPM	GALLONS PER MINUTE
	GALV	GALVANIZED
	GV	GATE VALVE
	HB	HOSE BIBB
	HDPE	HIGH DENSITY POLYETHYLENE
	HYD	HYDRANT
	LDPE	LOW DENSITY POLYETHYLENE
	MAX	MAXIMUM
	MIN	MINIMUM
	MFR	MANUFACTURER
	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
	NPT	NATIONAL PIPE THREAD
	NSF	NATIONAL SANITATION FOUNDATION INTERNATIONAL
	NTS	NOT TO SCALE
	OSHA	OCCUPATIONAL AND SAFETY HEALTH ADMINISTRATION
	POC	POINT OF CONNECTION
	PPM	PARTS PER MILLION
	PVC	POLYVINYL CHLORIDE PIPE
	PW	POTABLE WATER
	PSI	POUNDS PER SQUARE INCH
	RED	REDUCER
	SS	STAINLESS STEEL
	STD	STANDARD
	STL	STEEL
	TYP	TYPICAL
	UL	UNDERWRITERS LABORATORIES, INC.
	UNO	UNLESS NOTED OTHERWISE
	VIC	VICTAULIC
	WM	WATER METER
	W/	WITH

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El Granada, CA 94018
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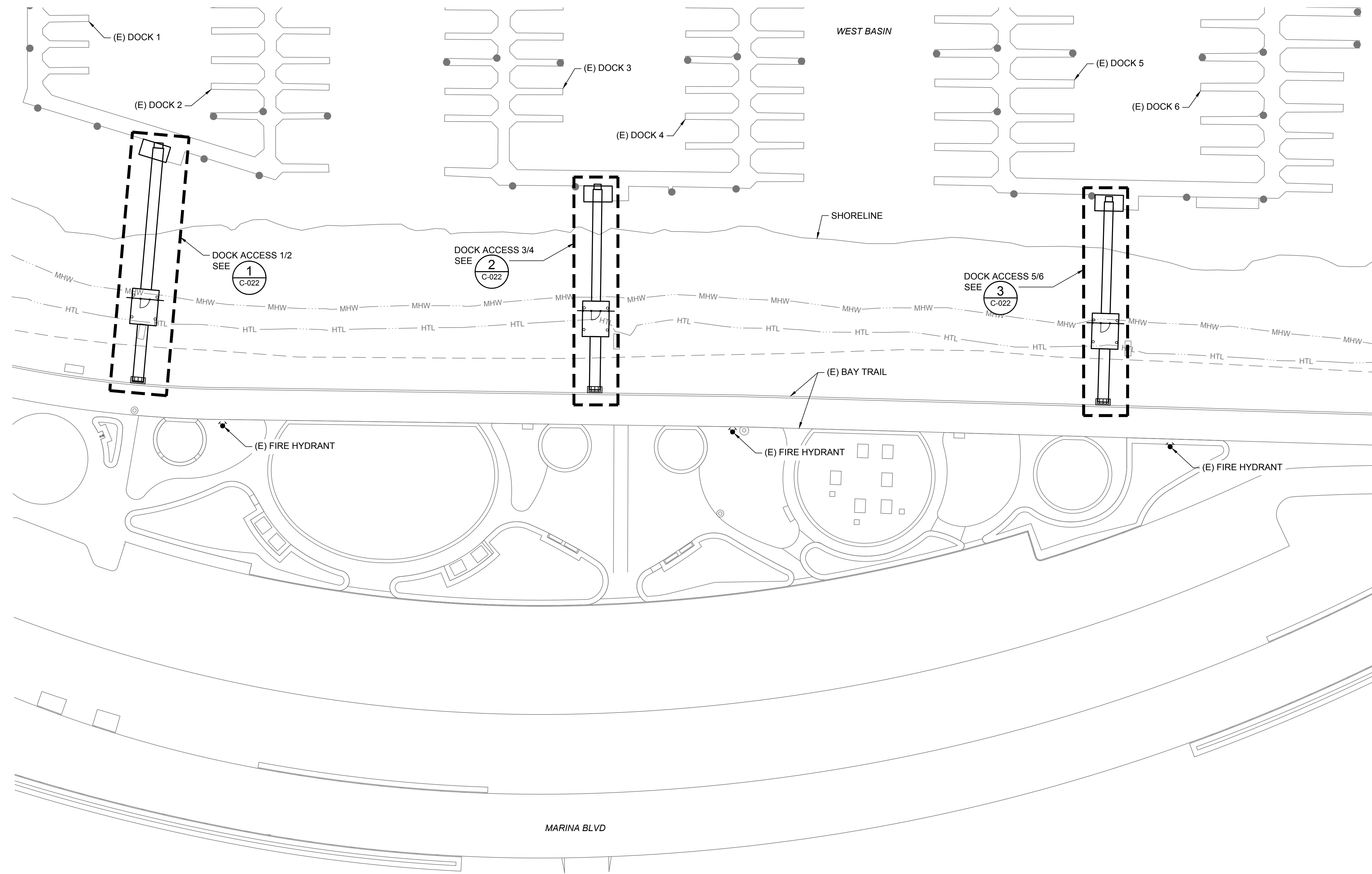
moffatt & nichol
2185 N. CALIFORNIA BLVD.
SUITE 500
WALNUT CREEK, CA 94596

DSGN	DM	DR	DM	CHK	AK
JOB NO.	9673-13	SUBMITTED BY		TITLE	

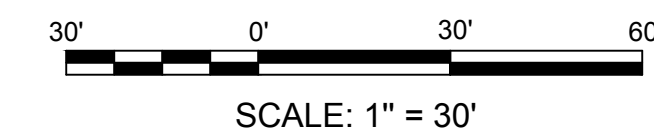
SAN MATEO COUNTY HARBOR DISTRICT
OYSTER POINT MARINA
WEST BASIN ACCESS IMPROVEMENTS
**MECHANICAL GENERAL NOTES,
LEGEND & ABBREVIATIONS**

DATE 04-10-2024
SHEET 10 OF 25
C-020

File: C:\WC\67-13 Oyster Pt Docks 12-144_CAD_Active_Sheets\West Basin Access Improvements\673_13-C-021_Plottext_4/10/2024 4:13 PM by PLESCHCHUK, ELENA, Saved: 8/11/2023 2:05 PM by WNWCHOLS



1 OVERALL MECHANICAL PLAN
SCALE: 1" = 30'



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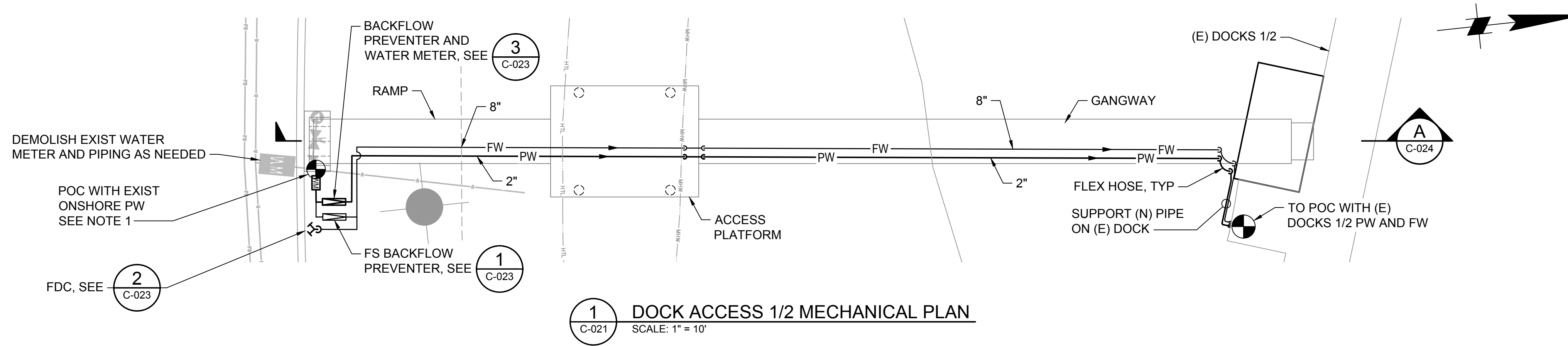
DSGN	DM	DR	DM	CHK	AK
JOB NO.	9673-13	SUBMITTED BY		TITLE	

SAN MATEO COUNTY HARBOR DISTRICT
OYSTER POINT MARINA
WEST BASIN ACCESS IMPROVEMENTS

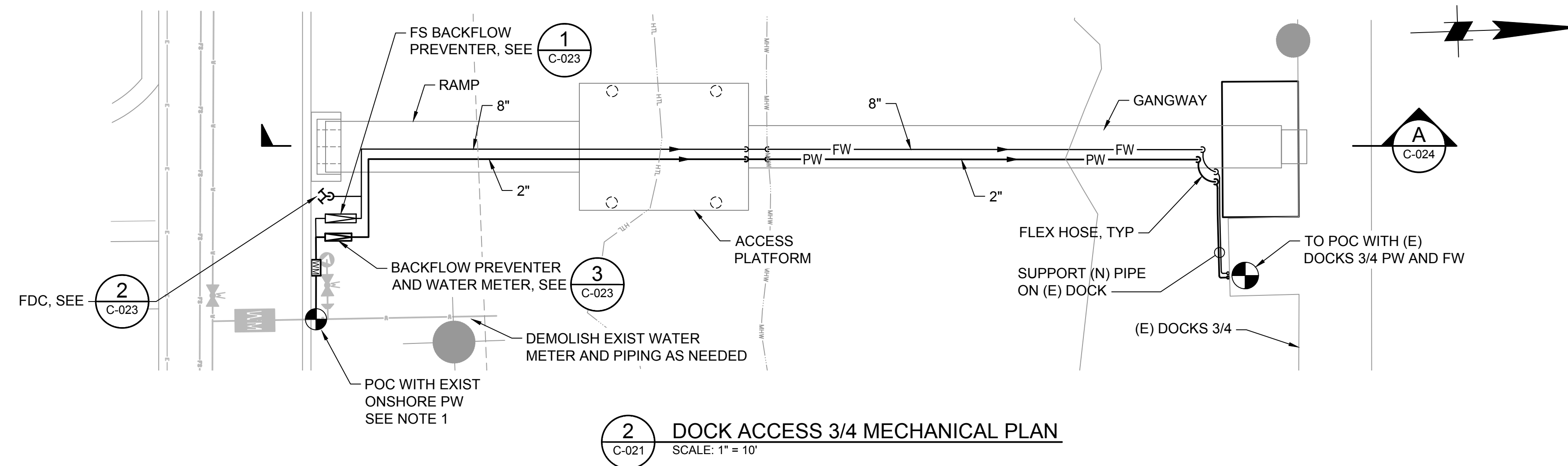
WEST BASIN MECHANICAL PLAN

DATE	04-10-2024
SHEET	11 OF 25
C-021	

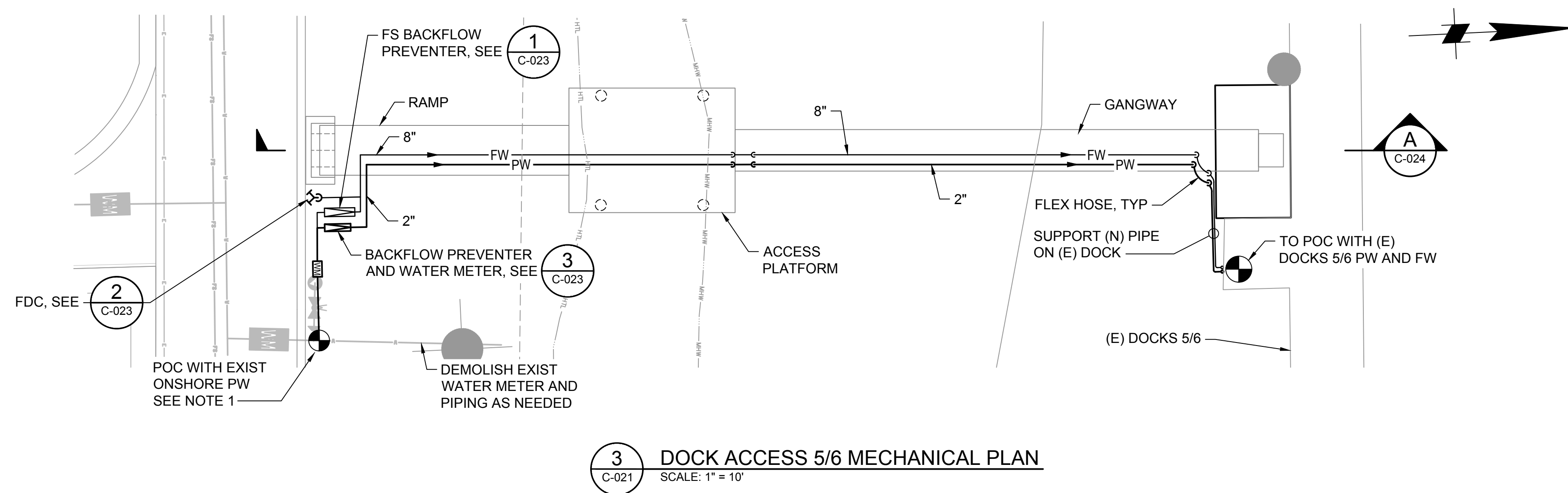
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1 DOCK ACCESS 1/2 MECHANICAL PLAN
C-021 SCALE: 1" = 10'



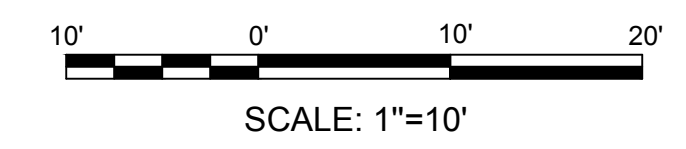
2 DOCK ACCESS 3/4 MECHANICAL PLAN
C-021 SCALE: 1" = 10'



3 DOCK ACCESS 5/6 MECHANICAL PLAN
C-021 SCALE: 1" = 10'

NOTES

1. PROVIDE CONCRETE THRUST BLOCKS PER NFPA 24 CODE REQUIREMENTS AND NPC CODE REQUIREMENTS. SUBMIT THRUST BLOCK DESIGN CALCULATIONS TO THE DISTRICT FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
2. PIPE SUPPORT SYSTEM SHALL CONSIST OF SS316 UNISTRUT FRAME AND FASTENERS.



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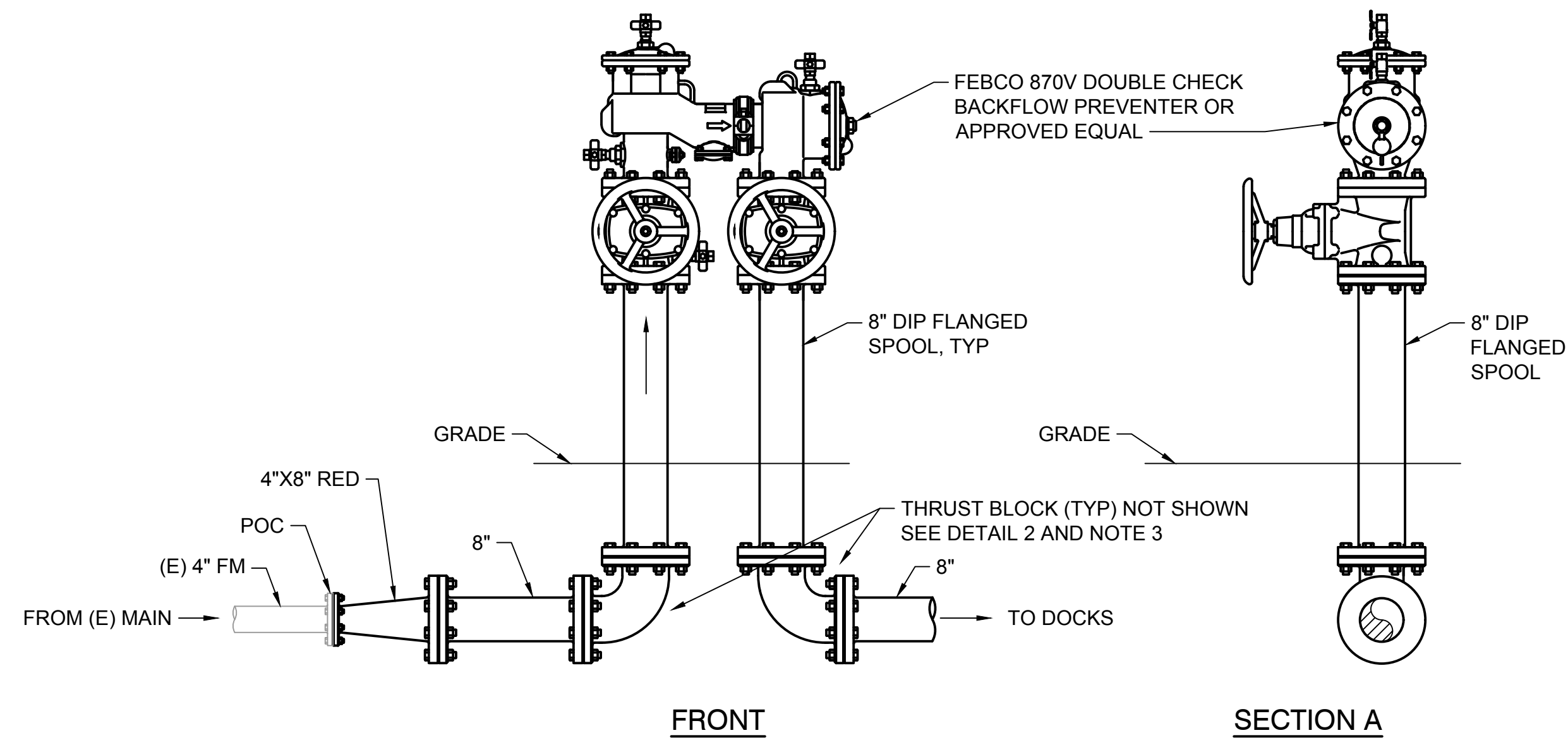
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SAN MATEO COUNTY HARBOR DISTRICT
OYSTER POINT MARINA
WEST BASIN ACCESS IMPROVEMENTS
DOCKS 1-6 ACCESS MECHANICAL PLANS

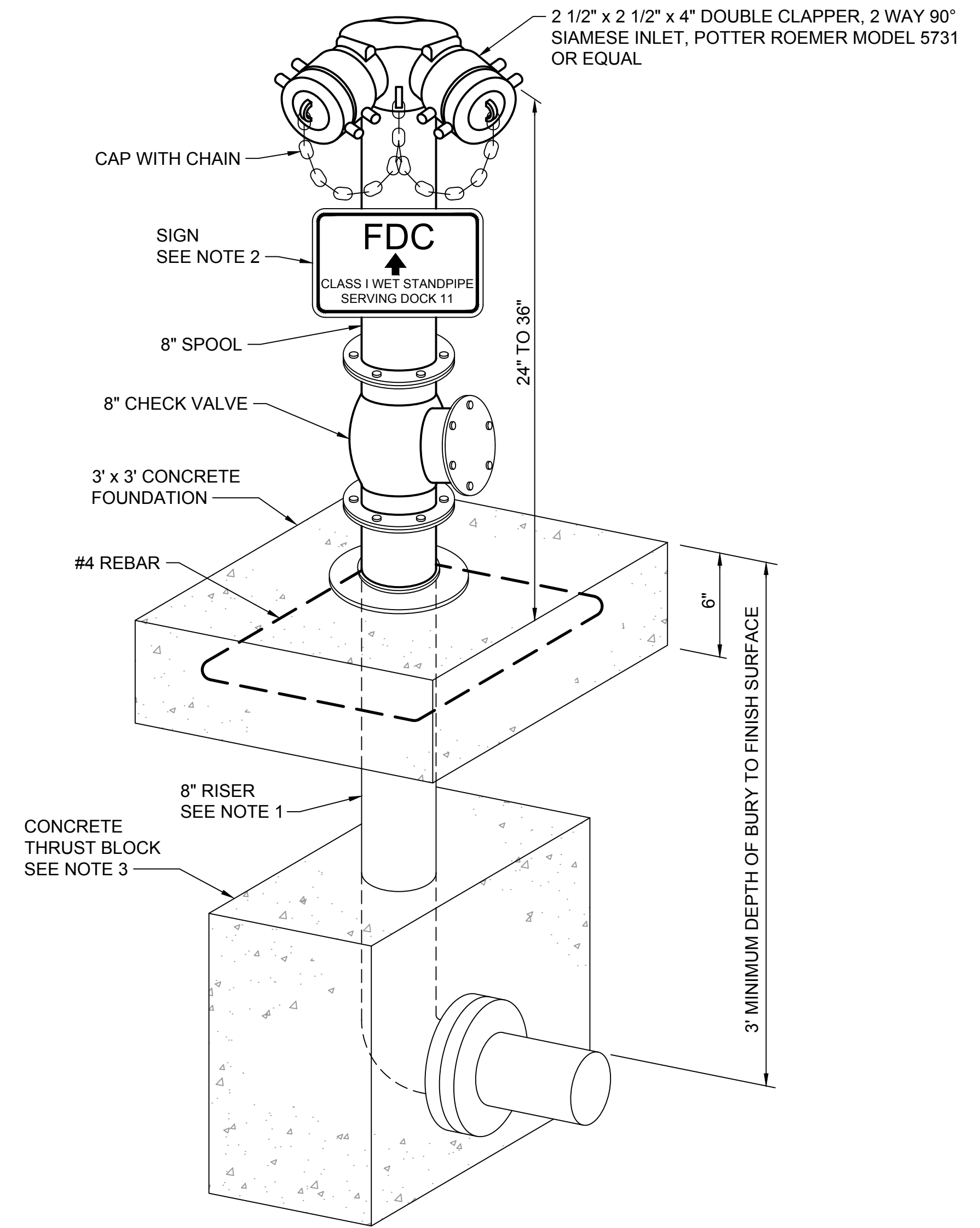
DATE 04-10-2024
SHEET 12 OF 25
C-022

File: C:\WC\6673-13 Oyster Pt Docks 12-144_CAD\Active_Sheets\13-C-023_Plot\13-C-023_Plot.dwg, 4/10/2024 4:13 PM by PLESCHUK, ELENA, Saved: 6/6/2023 11:42 AM by WNWICHOLS

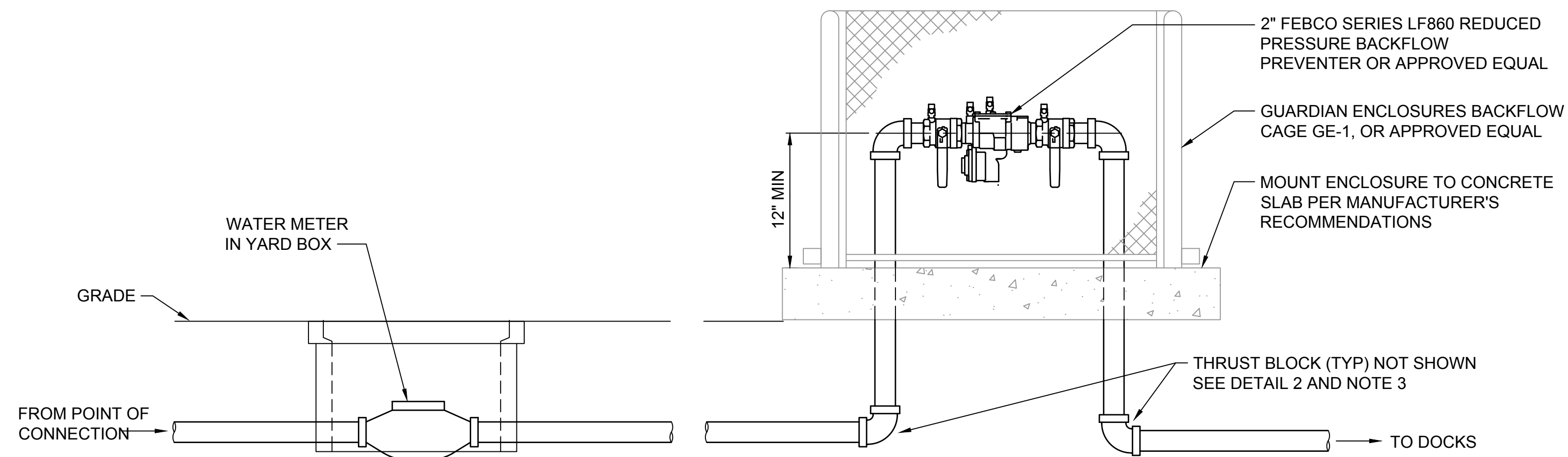


NOTE: MATERIAL AND INSTALLATION SHALL COMPLY WITH CITY AND COUNTY REQUIREMENTS.

1 FIRE SERVICE BACKFLOW PREVENTER DETAIL
SCALE: NTS



2 ONSHORE FIRE DEPT CONNECTION DETAIL
SCALE: NTS



3 POTABLE WATER BACKFLOW PREVENTER DETAIL
SCALE: NTS

NOTES

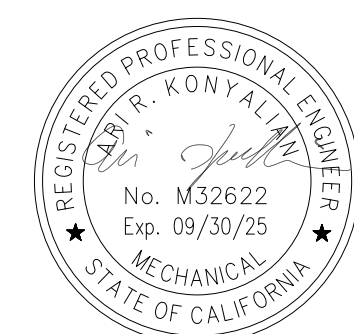
1. RISER PIPE SHALL BE SUPPORTED AT THE BOTTOM ELL OF THE RISER.
2. SIGN SHALL IDENTIFY TYPE OF SYSTEM AND AREA SERVED SHALL BE MOUNTED ON FDC SPOOL/RISER.
3. THRUST BLOCK SHOWN IS SCHEMATIC ONLY. PROVIDE CONCRETE THRUST BLOCKS PER NFPA 24 CODE REQUIREMENTS AND NPC CODE REQUIREMENTS. SUBMIT THRUST BLOCK DESIGN CALCULATIONS TO THE DISTRICT FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

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OYSTER POINT MARINA
WEST BASIN ACCESS IMPROVEMENTS

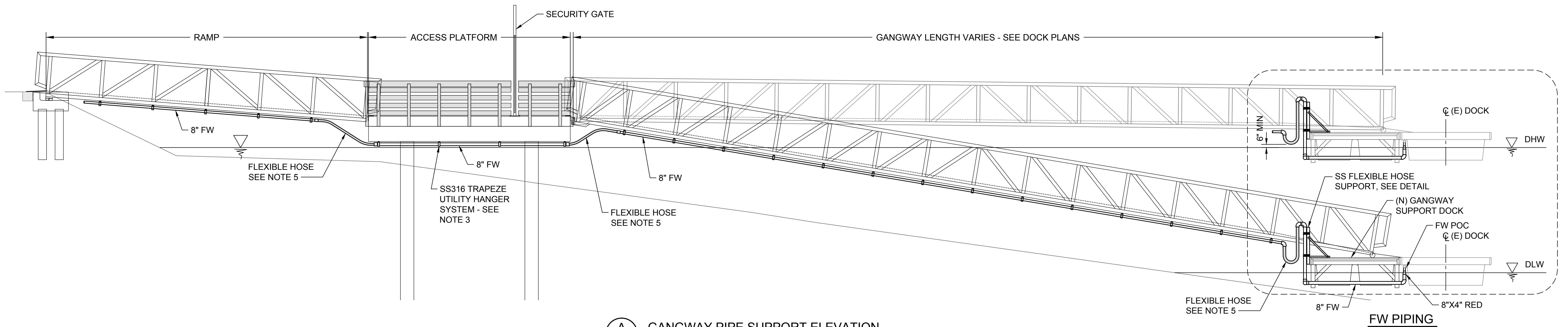
DATE 04-10-2024

SHEET 13 OF 25

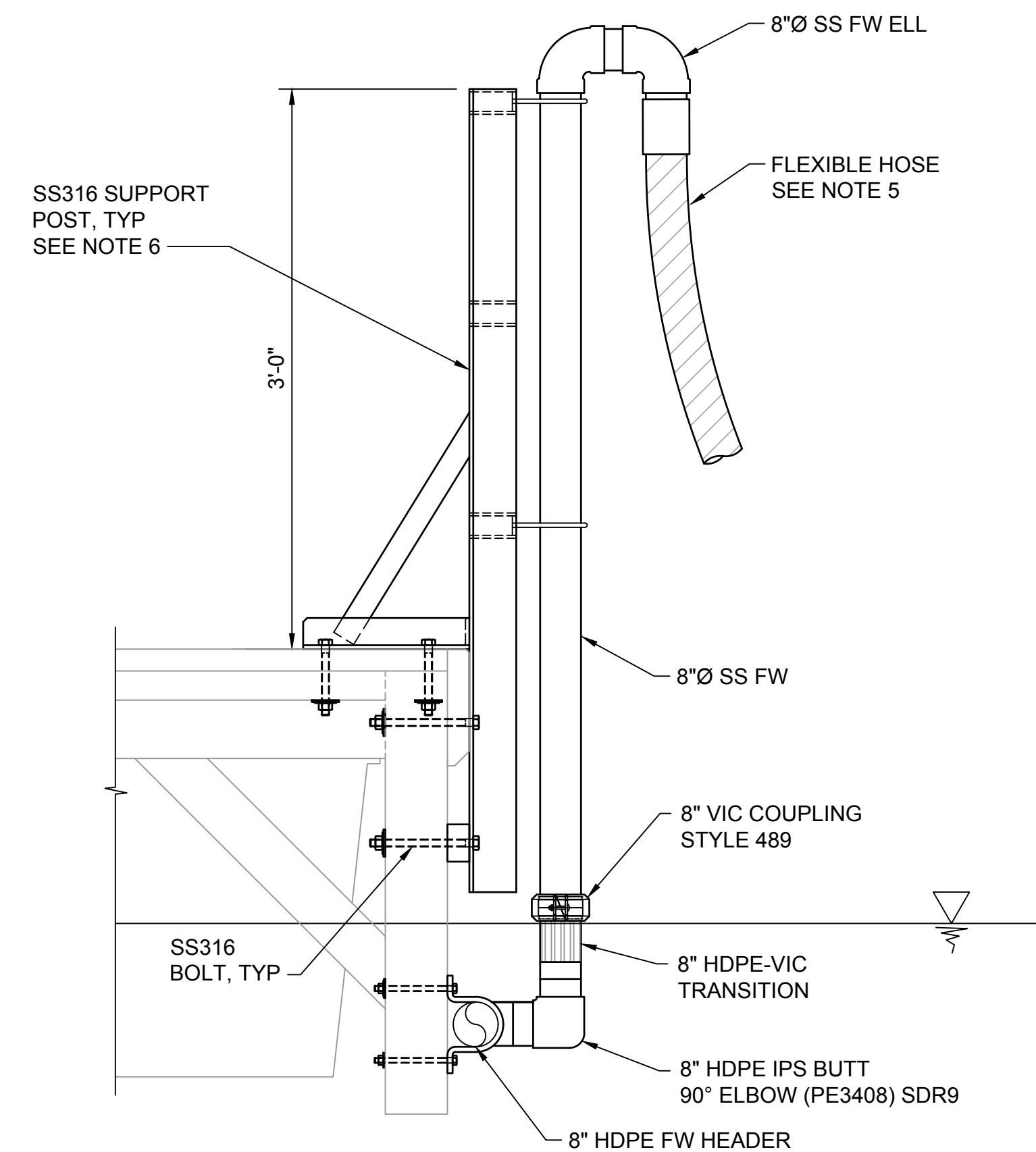
MECHANICAL DETAILS
SHEET 1 OF 2

C-023

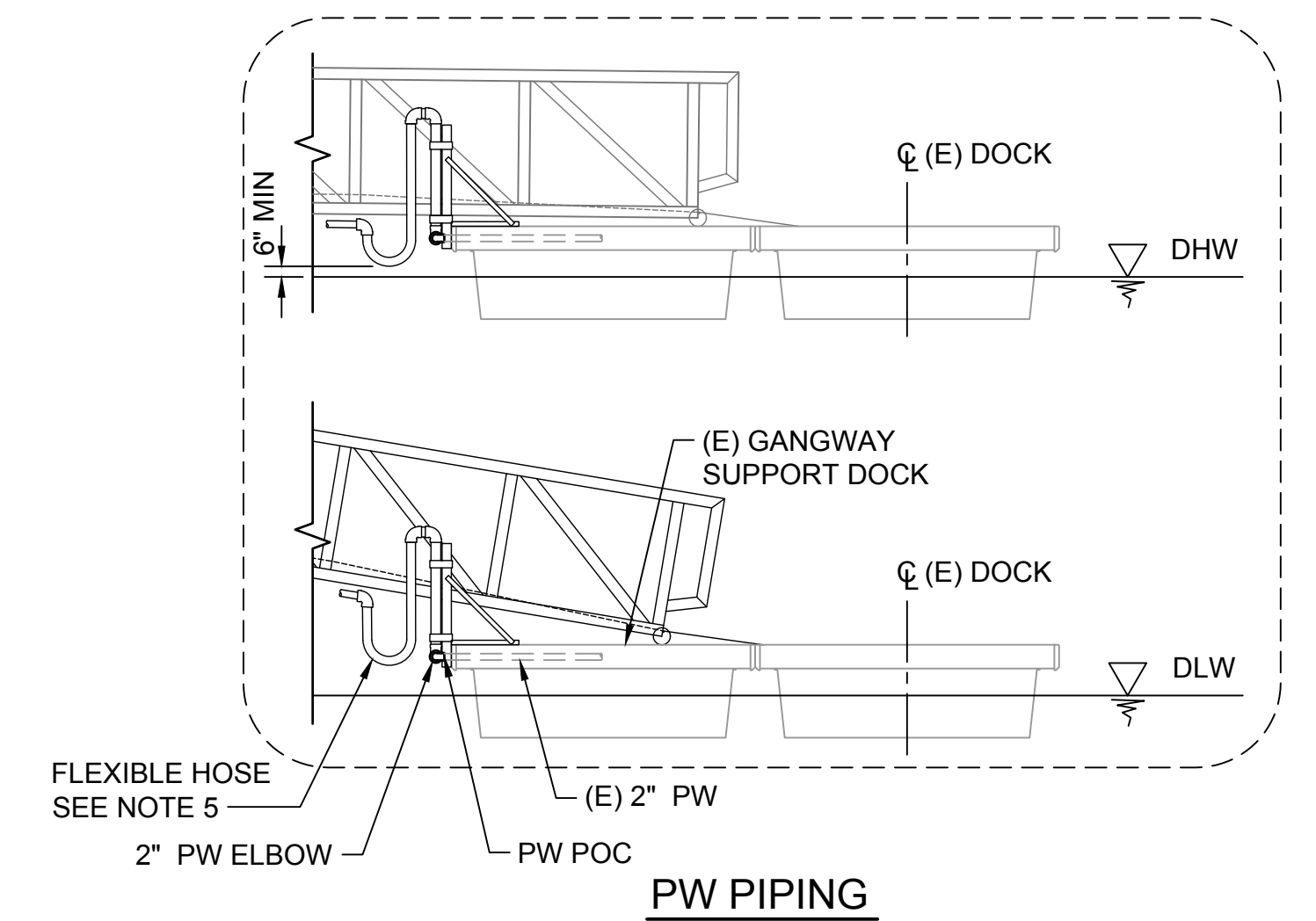
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A GANGWAY PIPE SUPPORT ELEVATION
C-022 SCALE: NTS



1 FLEXIBLE HOSE SUPPORT DETAIL
SCALE: NTS



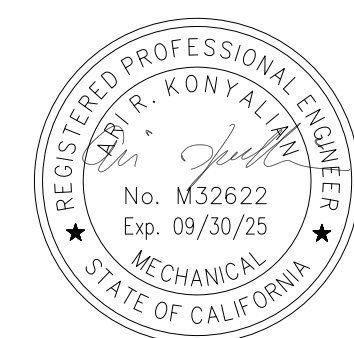
NOTES:

- FW SHOWN UNLESS NOTED OTHERWISE. OTHER UTILITY SERVICES SIMILAR.
- DOCK STRUCTURE SHOWN IS DIAGRAMMATIC. CONTRACTOR SHALL ADAPT WORK TO SELECTED DOCK STRUCTURE.
- THE TRAPEZE PIPE HANGER SYSTEM SHOWN IS SCHEMATIC ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN OF THE PIPE SUPPORT SYSTEM. THE TRAPEZE PIPE HANGER SYSTEM COMPONENTS SHALL BE SS316 AND SHALL INCLUDE SEISMIC BRACING PER NFPA REQUIREMENTS. THE TRAPEZE PIPE HANGER SYSTEM SHALL BE MOUNTED AS CLOSE TO THE CONCRETE SOFFIT AS NFPA REQUIREMENTS ALLOW.
- CONTRACTOR SHALL COORDINATE PIPE HANGER ATTACHMENTS TO RAMP, ACCESS PLATFORM, GANGWAY, AND FLOATING DOCKS WITH RAMP, GANGWAY, AND DOCK MANUFACTURERS.
- LENGTH OF FLEXIBLE HOSE SHALL BE DETERMINED BY THE CONTRACTOR TO ACCOMMODATE DESIGN LOW WATER AND DESIGN HIGH WATER ELEVATIONS. FLEXIBLE HOSE SHALL REMAIN A MINIMUM OF 6-INCHES ABOVE THE WATER SURFACE DURING ALL TIDAL CONDITIONS.
- FLEXIBLE HOSE SUPPORT SYSTEM SHALL BE DESIGNED BY THE CONTRACTOR. THE SUPPORT SYSTEM SHALL BE DESIGNED TO SUPPORT A MINIMUM 400-LB LOAD APPLIED AT ANY POINT OF THE SUPPORT SYSTEM IN ANY DIRECTION.



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JOB NO.	9673-13	SUBMITTED BY		TITLE	

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OYSTER POINT MARINA
WEST BASIN ACCESS IMPROVEMENTS


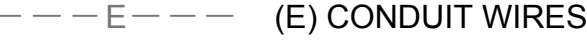
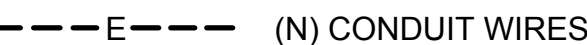

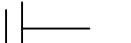
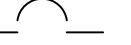
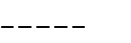

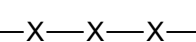
DATE 04-10-2024
SHEET 14 OF 25

MECHANICAL DETAILS
SHEET 2 OF 2

C-024

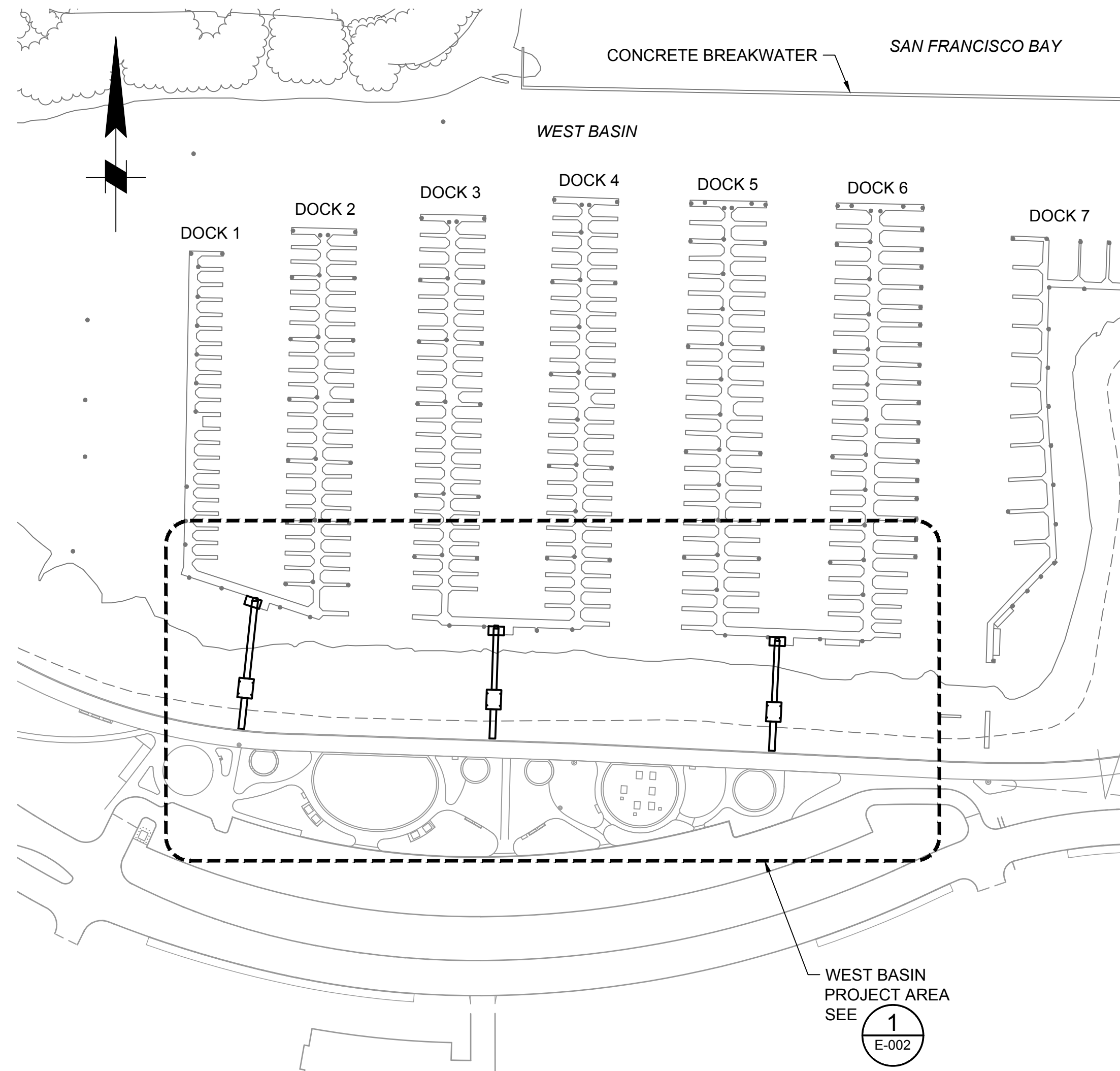
APRIL 10, 2024
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SYMBOL LIST

-  (E) PULL BOX
-  (E) CONDUIT WIRES
-  (N) CONDUIT WIRES
-  ENCLOSURE
-  GROUND CONNECTION
-  CIRCUIT BREAKER, SIZE AND TYPE AS INDICATED
-  EXISTING ELECTRICAL COMPONENT
-  METER
-  DEMOLISH (E) ELECTRICAL COMPONENT

ABBREVIATIONS

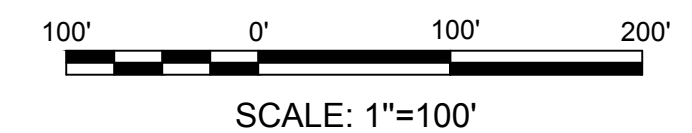
- 2P TWO POLE, OR AS INDICATED
- Ø DIAMETER
- A AMPERES
- AIC AMPERE INTERRUPTING CAPACITY
- C CONDUIT
- CO CONDUIT ONLY
- CTV CABLE TELEVISION
- CU COPPER
- (E), EX EXISTING
- EA EACH
- DEMO DEMOLISH
- GND GROUND
- KWH KILOWATT HOUR
- KVA KILOVOLT AMPERE
- LCL CONTINUOUS LOAD
- (N) NEW
- NEUT NEUTRAL WIRE
- NEC NATIONAL ELECTRICAL CODE
- NFPA NATIONAL FIRE PROTECTION AGENCY
- NIC NOT IN CONTRACT (BY OTHERS)
- NO. NUMBER
- NTS NOT TO SCALE
- PB PULL BOX
- PG&E PACIFIC GAS & ELECTRIC
- PVC POLYVINYL CHLORIDE
- SCH SCHEDULE
- SS STAINLESS STEEL
- TEL TELEPHONE
- THWN THERMOPLASTIC HEAT AND WATER RESISTANT, NYLON COATED
- TYP TYPICAL
- UL UNDERWRITERS LABORATORY
- UON UNLESS OTHERWISE NOTED
- V VOLTAGE
- V.D. VOLTAGE DROP
- W WATT, WIRE
- XFMR TRANSFORMER



KEY PLAN
SCALE: 1" = 100'

GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AND ALL OTHER APPLICABLE FEDERAL STATE AND LOCAL CODES. WHERE THE PLANS SHOW MORE RESTRICTIVE REQUIREMENTS, THE PLANS SHALL GOVERN. NOTHING ON THESE PLANS SHALL BE INTERPRETED AS AUTHORITY TO VIOLATE ANY CODE OR REGULATION.
2. IN THE EVENT OF A CONFLICT OR INCONSISTENCY BETWEEN ITEMS INDICATED ON THE PLANS AND/OR SPECIFICATIONS OR WITH CODE REQUIREMENTS, THE NOTE, SPECIFICATION OR CODE WHICH PRESCRIBES AND ESTABLISHES THE MORE COMPLETE JOB OR THE HIGHER STANDARD SHALL GOVERN.
3. THE ELECTRICAL CONTRACTOR SHALL OBTAIN ALL PERMITS AND PAY ALL FEES RELATED TO THE ELECTRICAL WORK.
4. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BEAR THE UNDERWRITERS LABORATORY (UL) LABEL AND SHALL BE INSTALLED IN THE MANNER FOR WHICH IT IS DESIGNED AND APPROVED.
5. ALL EQUIPMENT, INCLUDING ENCLOSURES, CONDUIT BODIES, FITTINGS AND MOUNTING HARDWARE INSTALLED OUTSIDE AND ON DOCKS SHALL BE APPROVED WEATHERTIGHT CORROSION RESISTANT (316/316L STAINLESS STEEL OR NON-METALLIC), UNLESS NOTED OTHERWISE.
6. UNLESS NOTED OTHERWISE, FEEDER CONDUCTORS AND BRANCH CIRCUIT WIRING SHALL BE COPPER. ALL WIRE SHALL BE UL LISTED, RATED FOR 600 VOLTS, NO. 12 MINIMUM SIZE.
7. THE ELECTRICAL CONTRACTOR SHALL INSTALL ALL CONDUITS AND WIRES WITH A MINIMUM NUMBER OF BENDS AND IN SUCH A MANNER AS TO CONFORM TO THE STRUCTURE. AVOID OBSTRUCTIONS, AND MEET ALL STRUCTURAL CODE REQUIREMENTS. THESE DRAWINGS ARE PRIMARILY DIAGRAMMATIC, AND DO NOT SHOW ALL SUCH REQUIRED BENDS, OFFSETS, FITTING, BOXES, ETC. CONDUIT BENDS SHALL BE IN ACCORDANCE WITH THE NEC.
8. THE ELECTRICAL CONTRACTOR SHALL NOT BORE, NOTCH OR IN ANY WAY CUT INTO ANY STRUCTURAL MEMBER, WITHOUT APPROVAL FROM THE SAN MATEO COUNTY HARBOR DISTRICT.
9. THE ELECTRICAL CONTRACTOR SHALL PROVIDE SUPPORT FOR ALL ELECTRICAL EQUIPMENT TO COMPLY WITH THE SEISMIC REQUIREMENTS OF THE CALIFORNIA BUILDING CODE AND LOCAL ORDINANCES.
10. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE BONDED AND GROUNDED AS REQUIRED BY THE NEC. ALL PVC POWER CONDUITS SHALL HAVE A NEC-SIZED GROUND WIRE INSTALLED.
11. THE ENTIRE WIRING SYSTEM SHALL BE TESTED FOR SHORT CIRCUITS, GROUNDS AND INSULATION RESISTANCE BETWEEN CONDUCTORS AND TO GROUND.
12. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUITS/SLEEVES, WIRES, PANELS, AND ENCLOSURES.
13. THE ELECTRICAL CONTRACTOR SHALL MAKE POWER CONNECTIONS TO ALL EXISTING EQUIPMENT.
14. ELECTRICAL EQUIPMENT SHALL COMPLY WITH NEC ARTICLE 555 & NFPA 303.
15. PROVIDE CONDUIT BUSHINGS FOR ALL CONDUIT.
16. ELECTRICAL ENCLOSURES SHALL BE NEMA 3R.



APRIL 10, 2024
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SAN MATEO COUNTY HARBOR DISTRICT
504 Avenue Alhambra, 2nd Floor
El Granada, CA 94018
(650) 741-9163

REVISION	DESCRIPTION	BY	DATE



moffatt & nichol
2185 N. CALIFORNIA BLVD.
SUITE 500
WALNUT CREEK, CA 94596

DSGN	RN	DR	JS / NN	CHK	NN
JOB NO.	9673-13	SUBMITTED BY		TITLE	

SAN MATEO COUNTY HARBOR DISTRICT
OYSTER POINT MARINA
WEST BASIN ACCESS IMPROVEMENTS

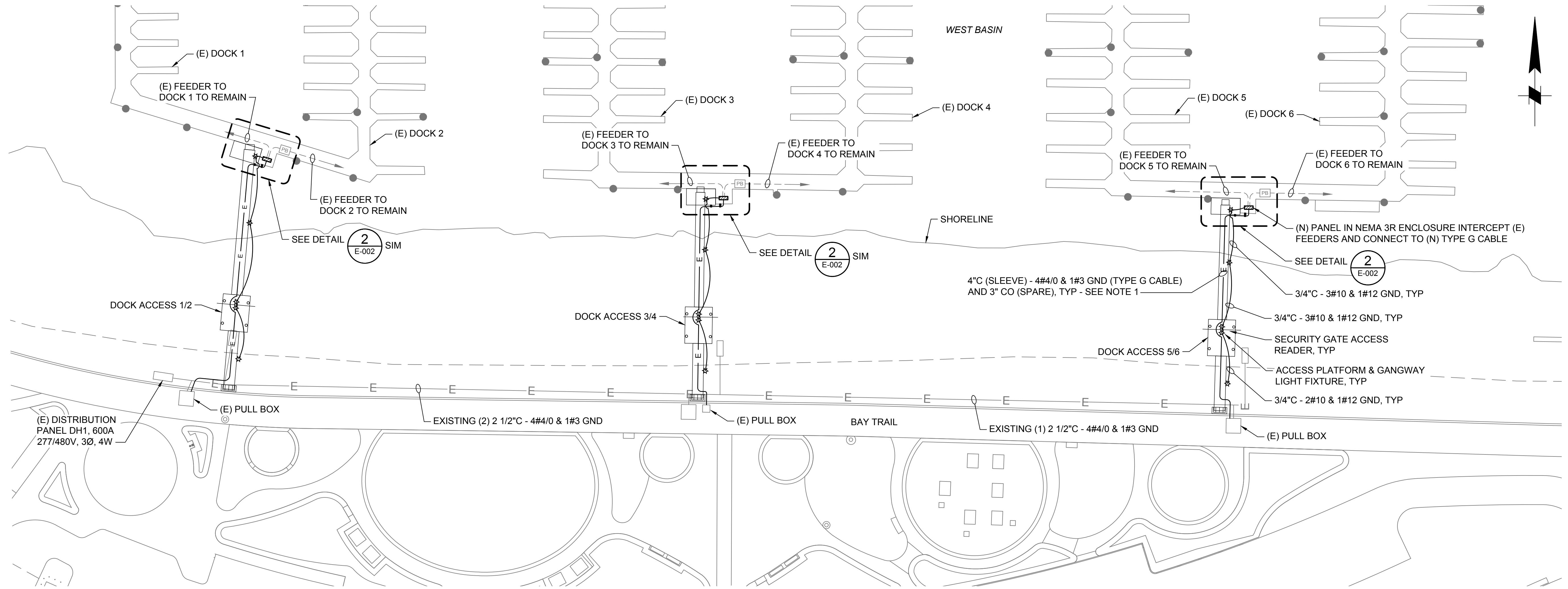
ELECTRICAL GENERAL NOTES

DATE 04-10-2024

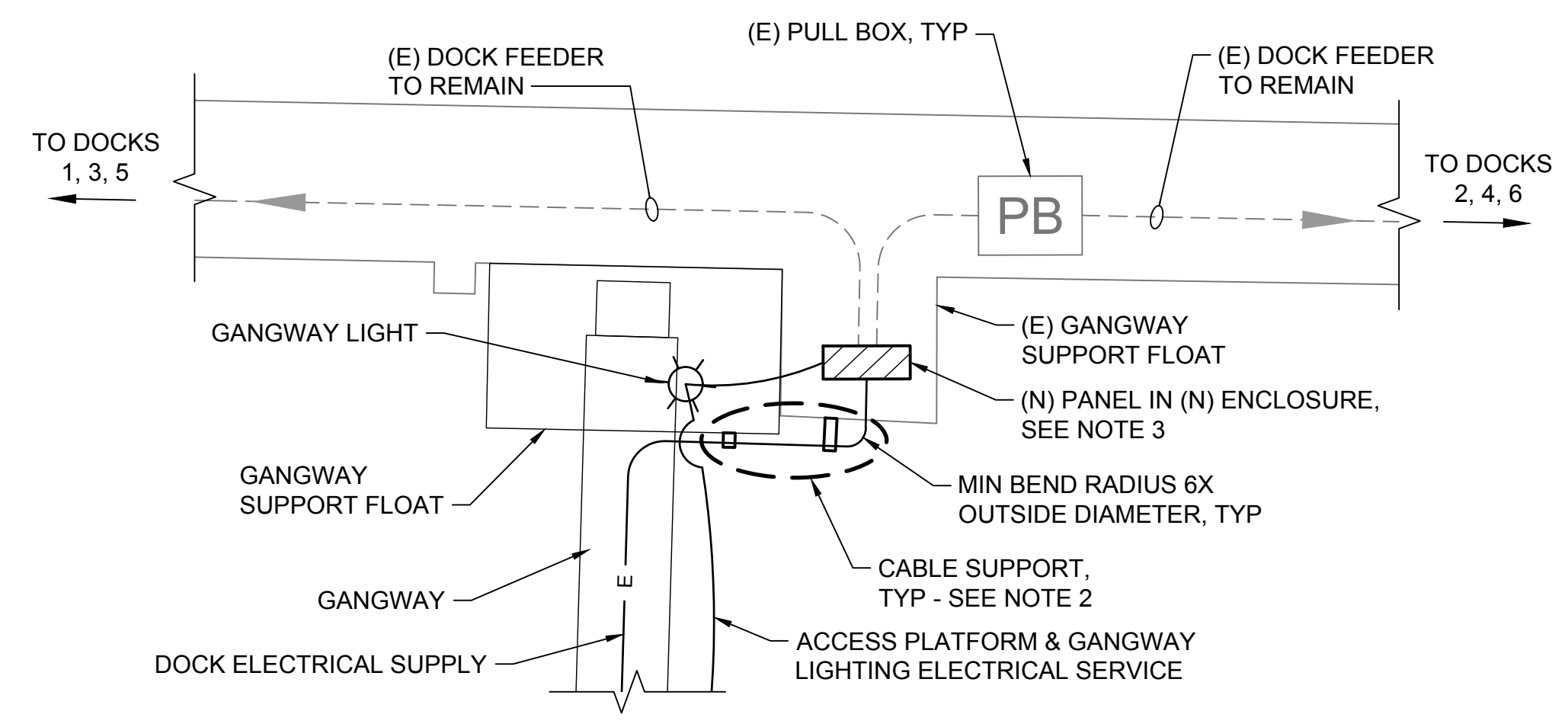
SHEET 15 OF 25

E-001

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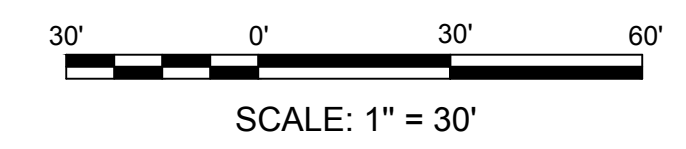
1 WEST BASIN ELECTRICAL PLAN
E-001 SCALE: 1" = 30'



2 DETAILED PLAN
E-002 SCALE: 1" = 8'

ELECTRICAL NOTES

1. CONNECT SPARE 3"CO (SLEEVE) TO EXISTING LANDSIDE PULLBOX AND TERMINATE AT LOWER END OF GANGWAY. SLEEVE SHALL NOT CONFLICT WITH DOCK AT HIGH WATER LEVELS.
2. CABLE SUPPORT SHALL SUPPORT THE TYPE G CABLE ALONG THE GANGWAY SUPPORT FLOAT AND EXISTING GANGWAY SUPPORT FLOAT AND CABLE ENTRY INTO EXISTING CONDUIT/RACEWAY. THE SUPPORT SYSTEM SHALL BE DESIGNED BY THE CONTRACTOR TO MEET BEND RADIUS REQUIREMENTS AT DESIGN HIGH AND LOW WATER ELEVATIONS. CABLE SUPPORT SYSTEM SHALL BE SS316 UNISTRUT OR SIMILAR UTILITY SUPPORT SYSTEM, AND SHALL BE DESIGNED TO RESIST THE DEAD LOAD OF THE CABLE AND A SUPERIMPOSED CONCURRENT 200-LB LOAD IN ANY DIRECTION.
3. PROVIDE 200A 277/480V, 3PH, 4W PANEL. PROVIDE PROTECTION CIRCUIT BREAKER FOR EXISTING DOCK TRANSFORMER. PROVIDE (2) 20A CIRCUIT BREAKER FOR ACCESS PLATFORM & GANGWAY LIGHTING SYSTEM AND SECURITY GATE ACCESS SYSTEM. ENCLOSURE SHALL BE NEMA 3R.
4. PROVIDE BONDING AND GROUNDING AS REQUIRED PER NEC.

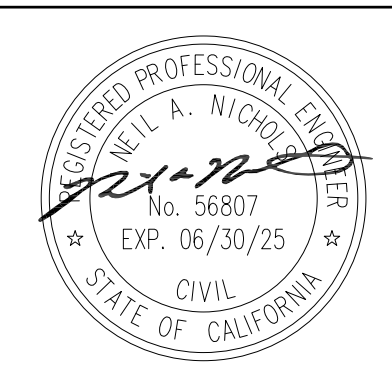


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504 Avenue Alhambra, 2nd Floor
El Granada, CA 94018
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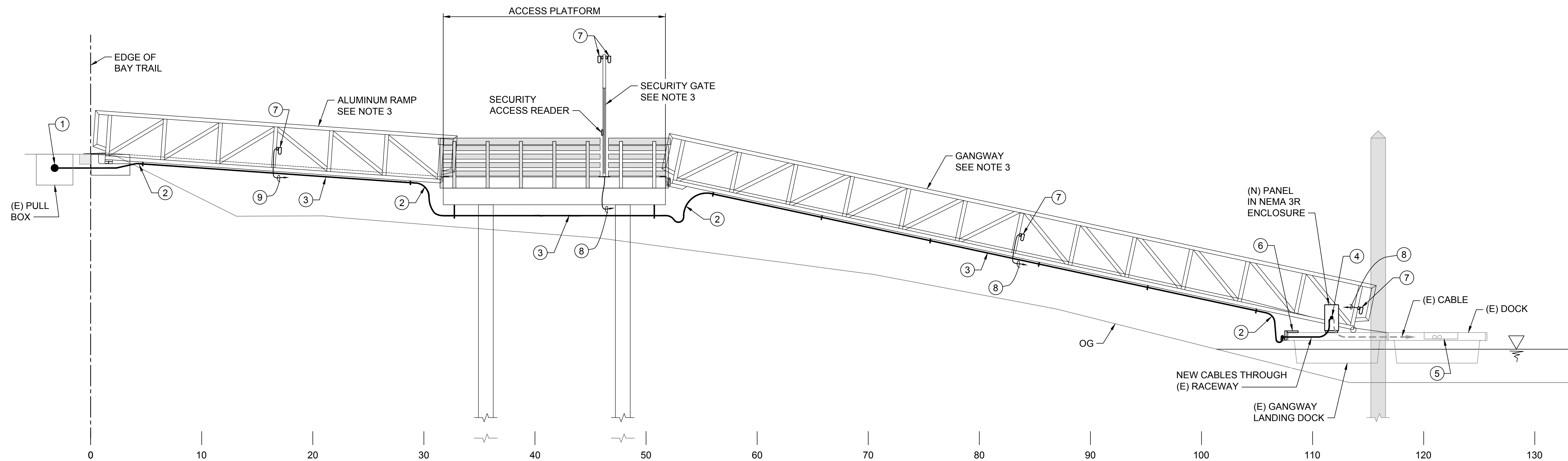


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DSGN	RN	DR	JS / NN	CHK	NN
JOB NO.	9673-13	SUBMITTED BY		TITLE	

SAN MATEO COUNTY HARBOR DISTRICT		DATE	04-10-2024
OYSTER POINT MARINA WEST BASIN ACCESS IMPROVEMENTS		SHEET	16 OF 25
WEST BASIN ELECTRICAL PLAN		E-002	

File: C:\M\9673-13 Oyster Pt Docks 12-144_CAD_Active_Sheets\West Basin Access Improvements\9673_13-E-010_Plot.dwg, 4/10/2024 4:14 PM by PLESCHCHUK, ELENA, Saved: 11/28/2023 4:16 PM by NICHOLS



1 TYPICAL DOCK ACCESS ELECTRICAL DETAIL
SCALE: NTS

ELECTRICAL NOTES

- ① POINT OF CONNECTION AT (E) PB
- ② SS316 WIRE MESH CABLE GRIP
- ③ 4" PVC SCH 80 SLEEVE (POWER) AND 3" PVC SCH 80 SLEEVE ONLY (SPARE) UNDER RAMP, PLATFORM, AND GANGWAY - SEE NOTE 1
- ④ INTERCEPT (E) CABLE & CONNECT TO (N) CABLE
- ⑤ EXISTING PULL BOX
- ⑥ CABLE SUPPORT SYSTEM, SEE NOTE 2
- ⑦ ACCESS PLATFORM & GANGWAY LIGHTING FIXTURE, SEE NOTE 4
- ⑧ 3/4"C WITH 3#10 WIRE & 1#12 GROUND.
- ⑨ 3/4"C WITH 2#10 WIRE & 1#12 GROUND.

ELECTRICAL NOTES

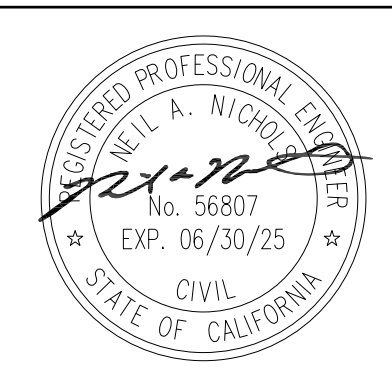
- 1. CONNECT SPARE 3"CO (SLEEVE) TO EXISTING LANDSIDE PULLBOX AND TERMINATE AT LOWER END OF GANGWAY. SLEEVE SHALL NOT CONFLICT WITH DOCK AT HIGH WATER LEVELS.
- 2. CABLE SUPPORT SHALL SUPPORT THE TYPE G CABLE ALONG THE GANGWAY SUPPORT FLOAT AND EXISTING GANGWAY SUPPORT FLOAT AND CABLE ENTRY INTO EXISTING CONDUIT/RACEWAY. THE SUPPORT SYSTEM SHALL BE DESIGNED BY THE CONTRACTOR TO MEET BEND RADIUS REQUIREMENTS AT DESIGN HIGH AND LOW WATER ELEVATIONS. CABLE SUPPORT SYSTEM SHALL BE SS316 UNISTRUT OR SIMILAR UTILITY SUPPORT SYSTEM, AND SHALL BE DESIGNED TO RESIST THE DEAD LOAD OF THE CABLE AND A SUPERIMPOSED CONCURRENT 200-LB LOAD IN ANY DIRECTION.
- 3. PROVIDE BONDING AND GROUNDING AS REQUIRED PER NEC.
- 4. LIGHT FIXTURE: LED VAPORPROOF JELLY JAR, 277V, WALL-MOUNT, WET LOCATION RATED, MINIMUM 800 LUMENS. LIGHT FIXTURE SHALL NOT ENCR OACH INTO THE CLEAR WIDTH OF THE RAMP AND GANGWAY. LIGHT FIXTURES SHALL BE PHOTOCCELL CONTROLLED FOR DUSK-TO-DAWN OPERATION.

APRIL 10, 2024
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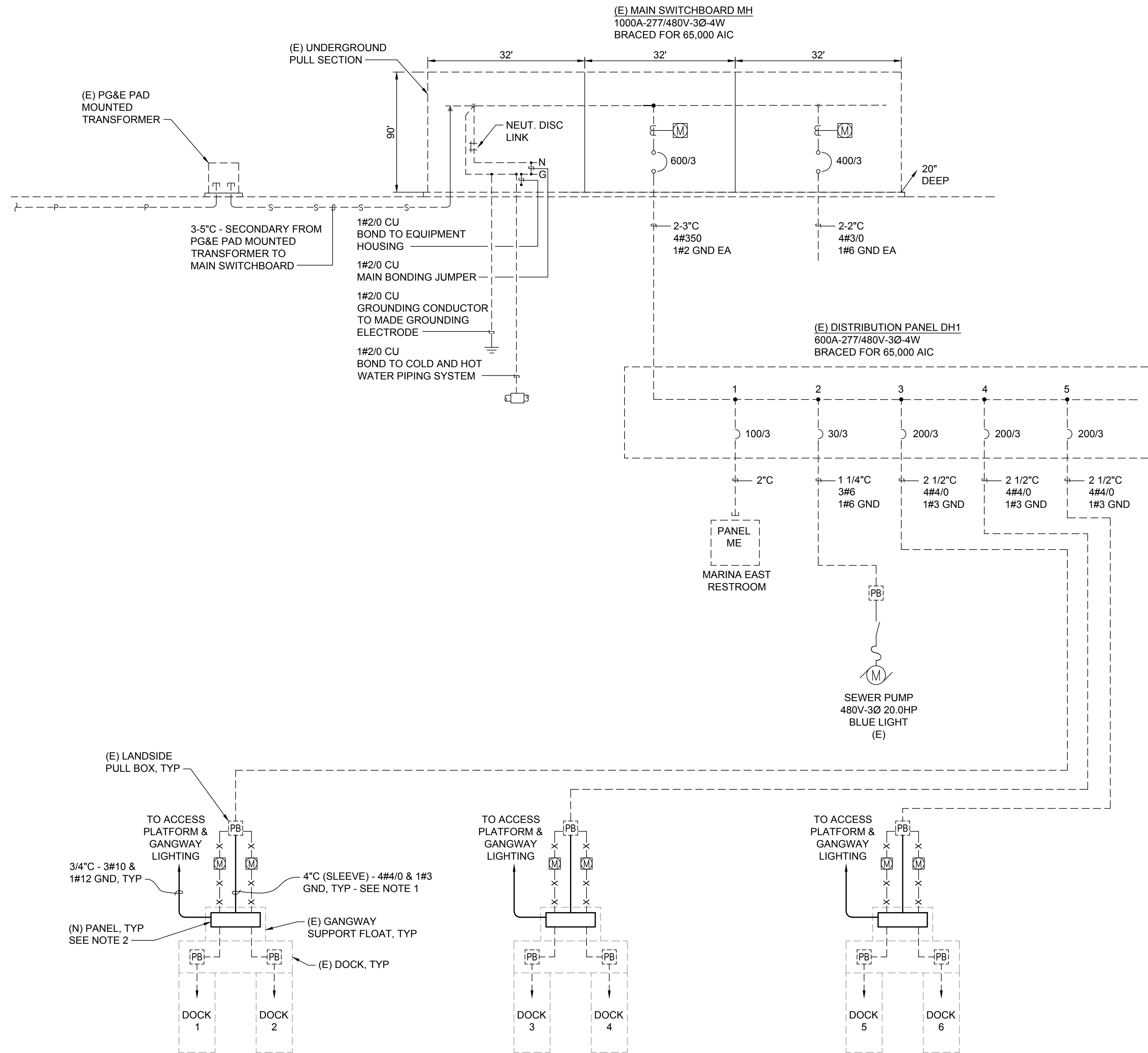
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DSGN	RN	DR	JS / NN	CHK	NN
JOB NO.	9673-13	SUBMITTED BY		TITLE	

SAN MATEO COUNTY HARBOR DISTRICT
OYSTER POINT MARINA
WEST BASIN ACCESS IMPROVEMENTS

DATE	04-10-2024
SHEET	17 OF 25
ELECTRICAL DETAILS	E-010

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ELECTRICAL NOTE:

1. NEW CABLES SHALL BE TYPE G, THWN RATED 90C, OIL, GAS, AND SUNLIGHT RESISTANT.
2. PROVIDE 200A 277/480V, 3PH, 4W PANEL. PROVIDE PROTECTION CIRCUIT BREAKER FOR EXISTING DOCK TRANSFORMER. PROVIDE (2) 20A CIRCUIT BREAKER FOR ACCESS PLATFORM & GANGWAY LIGHTING SYSTEM AND SECURITY GATE ACCESS SYSTEM. ENCLOSURE SHALL BE NEMA 3R.

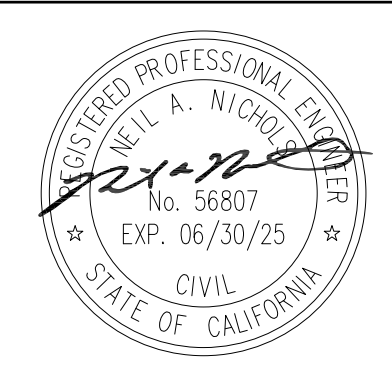
1 SINGLE LINE DIAGRAM
SCALE: NTS

APRIL 10, 2024
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JOB NO.	9673-13	SUBMITTED BY		TITLE	

SAN MATEO COUNTY HARBOR DISTRICT		DATE	04-10-2024
OYSTER POINT MARINA WEST BASIN ACCESS IMPROVEMENTS		SHEET	18 OF 25
SINGLE LINE DIAGRAM		E-011	

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STRUCTURAL NOTES

CODES AND STANDARDS

1. AMERICAN CONCRETE INSTITUTE (ACI), BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY, ACI 318-19.
2. 2019 CALIFORNIA BUILDING CODE (CBC).
3. PCI DESIGN HANDBOOK, PRECAST AND PRESTRESSED CONCRETE 8TH EDITION.
4. AMERICAN SOCIETY OF CIVIL ENGINEERS, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, ASCE 7-16.
5. AMERICAN SOCIETY OF CIVIL ENGINEERS, SEISMIC DESIGN OF PIERS AND WHARVES, ASCE 61-14.

DESIGN CRITERIA

1. LIVE LOADS
 - a. DECK UNIFORM: ASSEMBLY AREA = 100 PSF
2. SEISMIC
 - a. SEISMIC DEMAND PER ASCE 7-16.
 - b. SITE CLASS = E
 - c. SITE COEFFICIENTS
 - SMS = 1.548
 - SM1 = 1.906
 - SDS = 1.032
 - SD1 = 1.721
 - d. RISK CATEGORY = II
 - e. SEISMIC IMPORTANCE FACTOR = 1.0
3. WIND LOAD - WIND LOAD IS NOT INCLUDED
4. CURRENT AND WAVE LOADING - CURRENT AND WAVE LOADING ARE NOT INCLUDED
5. MARINE GROWTH - MARINE GROWTH IS NOT INCLUDED

CAST-IN-PLACE CONCRETE

1. CAST-IN-PLACE CONCRETE SHALL BE:
 - a. NORMAL WEIGHT
 - b. MINIMUM 28-DAY COMPRESSIVE STRENGTH (f_c) = 5,000 PSI
2. PROVIDE 3/4" CHAMFER AT ALL CONCRETE EDGES UON.
3. MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE 3" UON.
4. CONSTRUCTION JOINTS SHALL BE PROVIDED ONLY AS NOTED ON THE DRAWINGS OR AS SPECIFICALLY PERMITTED BY THE SMCHD.
5. UNLESS OTHERWISE NOTED, ALL CONSTRUCTION JOINTS SHALL BE CLEANED OF SURFACE LANTANCE, CURING COMPOUND, AND OTHER FOREIGN MATERIALS BEFORE PLACING FRESH CONCRETE AGAINST THE SURFACE OF THE JOINT. ABRASIVE BLAST METHODS SHALL BE USED TO CLEAN CONSTRUCTION JOINTS TO THE EXTENT THAT CLEAN AGGREGATE IS EXPOSED. BLASTING ABRASIVE SHALL BE CONTAINED. ALL CONSTRUCTION JOINTS SHALL BE FLUSHED WITH WATER AND ALLOWED TO DRY TO A SURFACE DRY CONDITION PRIOR TO PLACING CONCRETE.

REINFORCING STEEL

1. ALL REINFORCING BARS EXCEPT FOR HRC PILE DOWELS SHALL BE GRADE 60 AND CONFORM TO A706.
2. REINFORCING BARS EXCEPT PILE DOWEL TO DIAPHRAGM SHALL NOT BE WELDED WITHOUT DISTRICT APPROVAL.
3. ALL REINFORCING BARS SPLICES SHALL BE CLASS "B" TENSION LAP SPLICES, IN ACCORDANCE WITH ACI 318, CHAPTER 12. UON. STAGGER SPLICES WHERE POSSIBLE.
4. REINFORCEMENT HOOKS AND BENDS SHALL BE STANDARD HOOKS CONFORMING TO THE PROVISIONS OF THE AMERICAN CONCRETE INSTITUTE (ACI 318-19) UON.
5. WELDING OF PILE DOWELS TO DIAPHRAGM PLATES SHALL CONFORM WITH AWS D1.4. WELD CONSUMABLES SHALL CONFORM WITH AWS D1.4.
6. SPIRAL REINFORCEMENT SHALL BE ASTM A1064 GRADE 70.

WELDING

1. WELDING SHALL CONFORM WITH AWS D1.1.
2. WELD CONSUMABLES SHALL BE E70XXX.

EMBEDDED GALVANIC ANODES

1. THE CONTRACTOR SHALL PROVIDE EMBEDDED VECTOR GALVASHIELD TYPE N OR ENGINEER APPROVED EQUAL FOR ALL LOCATIONS INDICATED ON THE DRAWINGS.
2. ANODES SHALL BE TIED TO CONCRETE REINFORCING. CONCRETE REINFORCING SHALL BE CONNECTED AT ALL INTERSECTIONS.
3. INSTALLATION OF ANODES SHALL BE PER MANUFACTURER RECOMMENDATIONS.

PRECAST CONCRETE PLANKS

1. PLANKS SHALL HAVE A 28-DAY CONCRETE COMPRESSIVE STRENGTH (f_c) OF 6,000 PSI.
2. EXTEND ALL PRECAST PLANK REBAR 12 INCHES BEYOND END FACES.
3. PRECAST PLANKS SHALL HAVE A RAKED TOP SURFACE WITH A MINIMUM AMPLITUDE OF 1/4" PERPENDICULAR TO THE PLANK LONGITUDINAL AXIS.

STEEL PIPE PILES

1. SEE SHEET S-004 FOR PILE NOTES.

GROUT

1. GROUT SHALL BE SIKAGROUT 328 OR APPROVED EQUAL UON. GROUT SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 5,000 PSI.
2. WHERE GROUT IS PLACED WITHOUT FORMWORK, GROUT SHALL BE HANDPACKED
3. ALL GROUT SHALL BE PLACED TO OBTAIN UNIFORM COVERAGE WITHOUT VOIDS. THE CONTRACTOR SHALL SUBMIT A GROUTING PROCEDURE FOR APPROVAL BY SMCHD.

EPOXY

1. EPOXY DOWELS AND ANCHOR BOLTS SHALL BE INSTALLED PER EPOXY MANUFACTURER'S RECOMMENDATION, UON.
2. EPOXY FOR ANCHOR BOLTS AND THREADED RODS SHALL BE HILTI HIT RE-500 V3 OR APPROVED EQUAL.
3. EPOXY FOR REINFORCING STEEL DOWELS SHALL BE SIMPSON SET XP OR APPROVED EQUAL.
4. EMBEDMENT DEPTH VALUES ARE BASED ON THE MAXIMUM PERMISSIBLE EMBEDMENT FOR EPOXY BOND STRENGTH OR 12 INCHES WHICHEVER IS GREATER.
5. HOLE DIAMETER IS BASED ON ESR 2508 AND MAY BE INCREASED BY 1/8" FOR EASE OF CONSTRUCTION.

DRILLING DOWEL HOLES

1. HOLES SHALL BE ROTARY IMPACT HAMMER DRILLED.
2. IN THE EVENT THAT REBAR IS ENCOUNTERED IN THE DOWEL HOLE THEN THE DOWEL HOLE SHALL BE ABANDONED AND A NEW HOLE SHALL BE LOCATED NOT CLOSER THAN 2 HOLE DIAMETERS AWAY. THE ABANDONED HOLE SHALL BE DRY PACKED WITH MORTAR.

APRIL 10, 2024
BID SET



SAN MATEO COUNTY HARBOR DISTRICT
504 Avenue Alhambra, 2nd Floor
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REVISION	DESCRIPTION	BY	DATE



2185 N. CALIFORNIA BLVD.
SUITE 500
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DSGN	ME/NN	DR	EP	CHK	BP/RD/JB
JOB NO.	9673-13	SUBMITTED BY		TITLE	

SAN MATEO COUNTY HARBOR DISTRICT
OYSTER POINT MARINA
WEST BASIN ACCESS IMPROVEMENTS

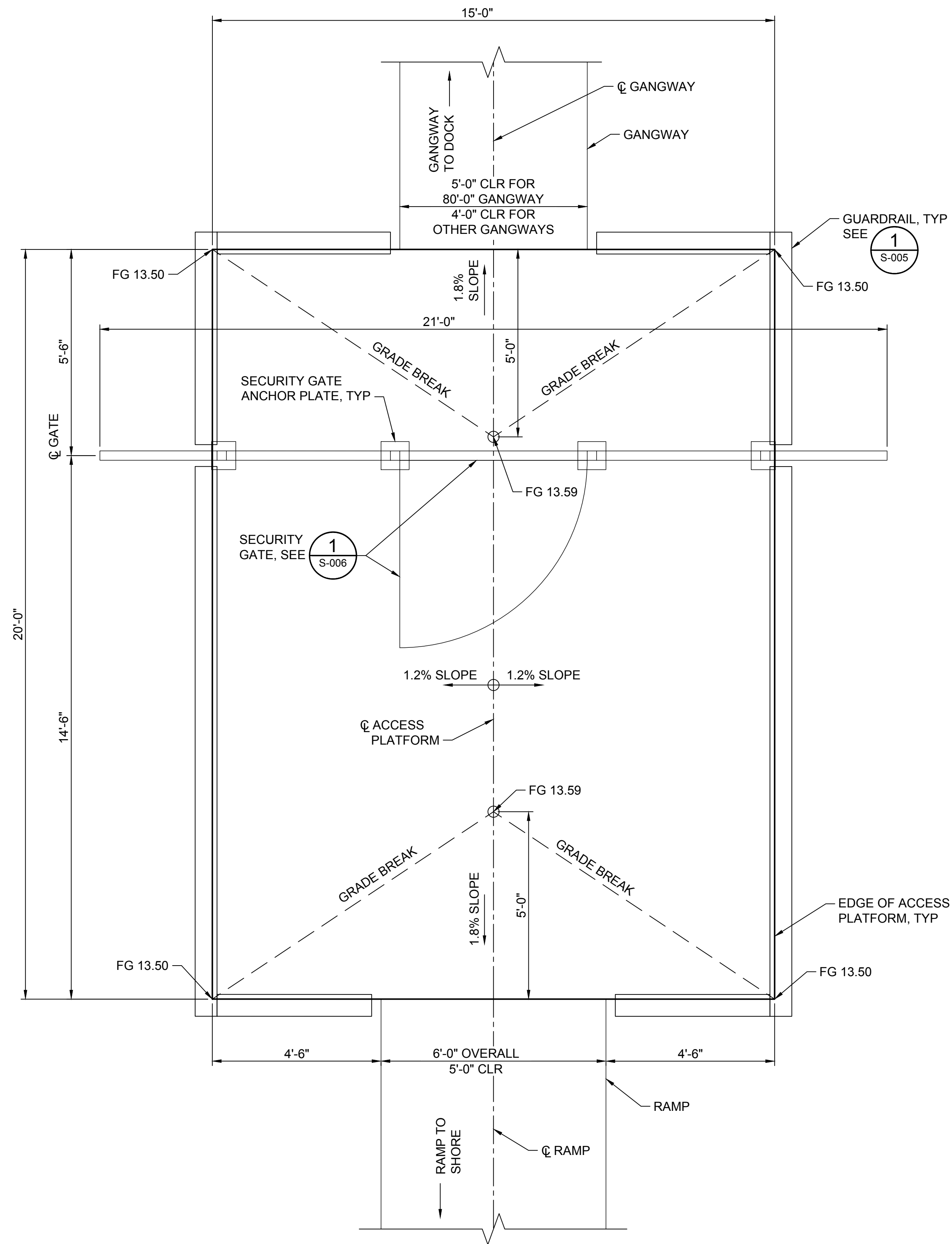
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SHEET 19 OF 25

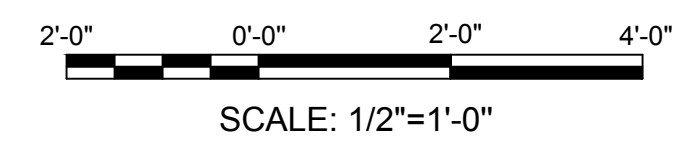
STRUCTURAL NOTES

S-001

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1 ACCESS PLATFORM PLAN
 C-011 SCALE: 1/2" = 1'-0"
 C-012, C-013

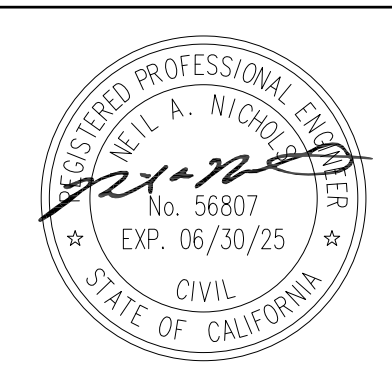


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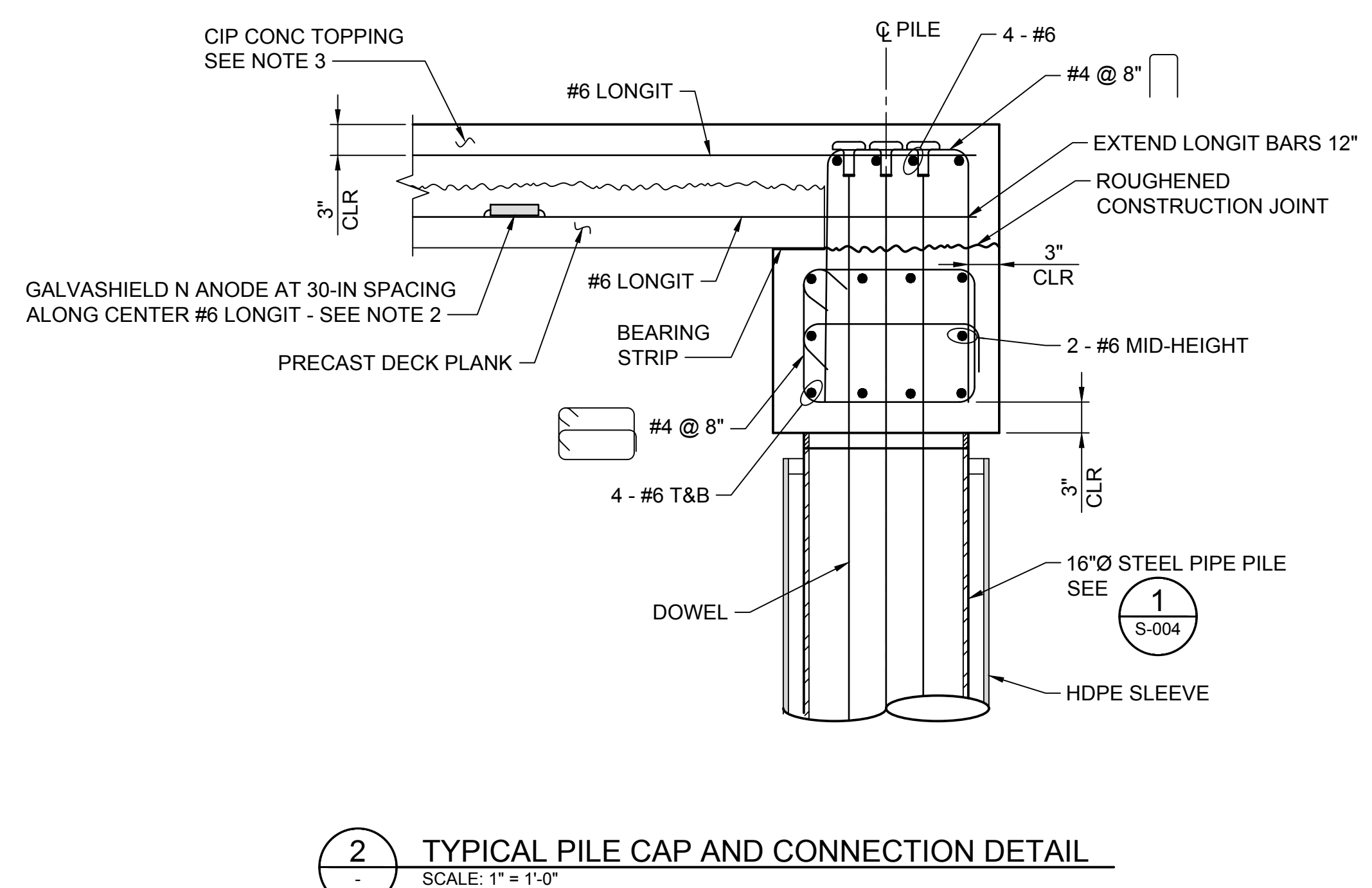
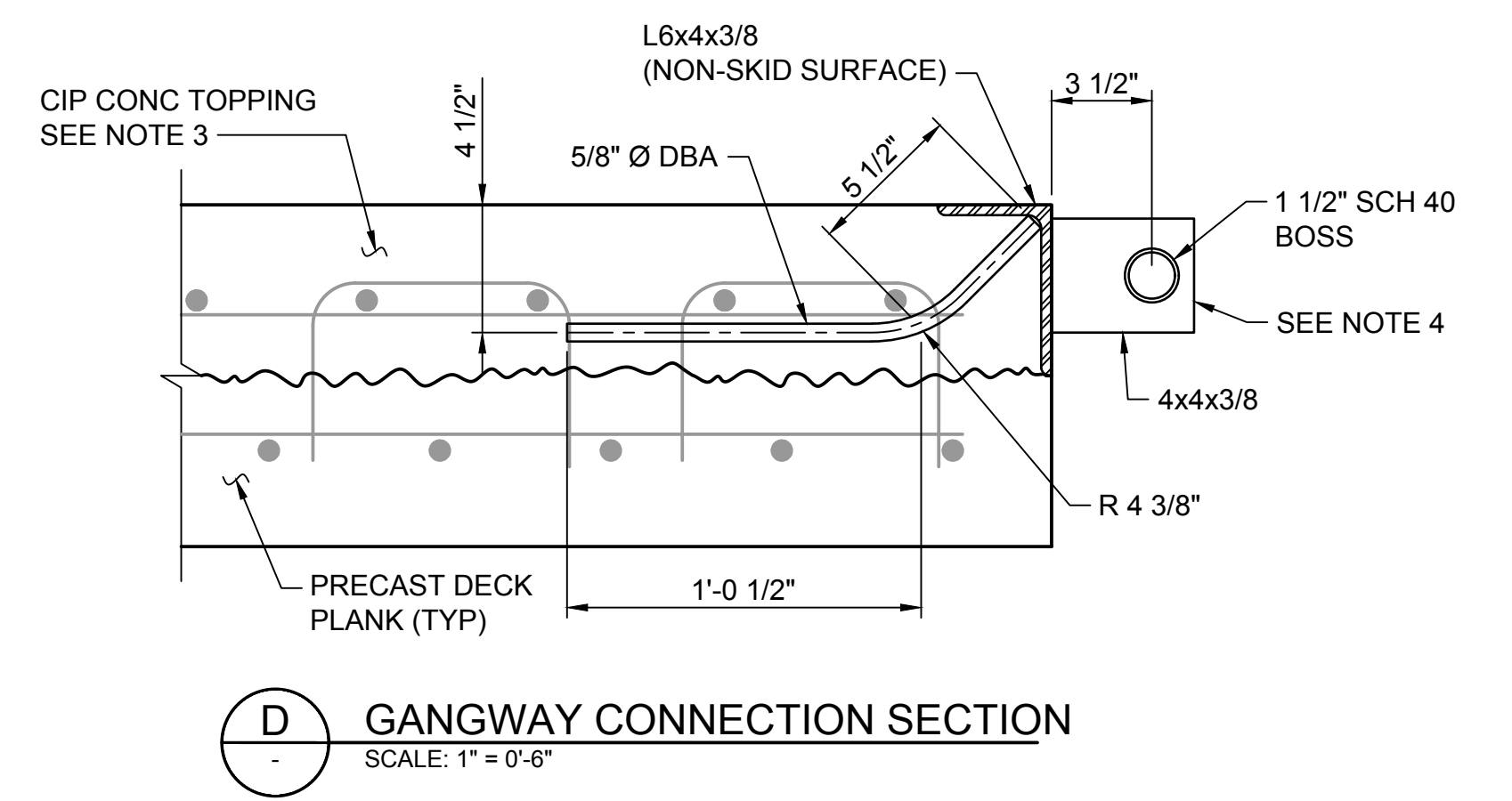
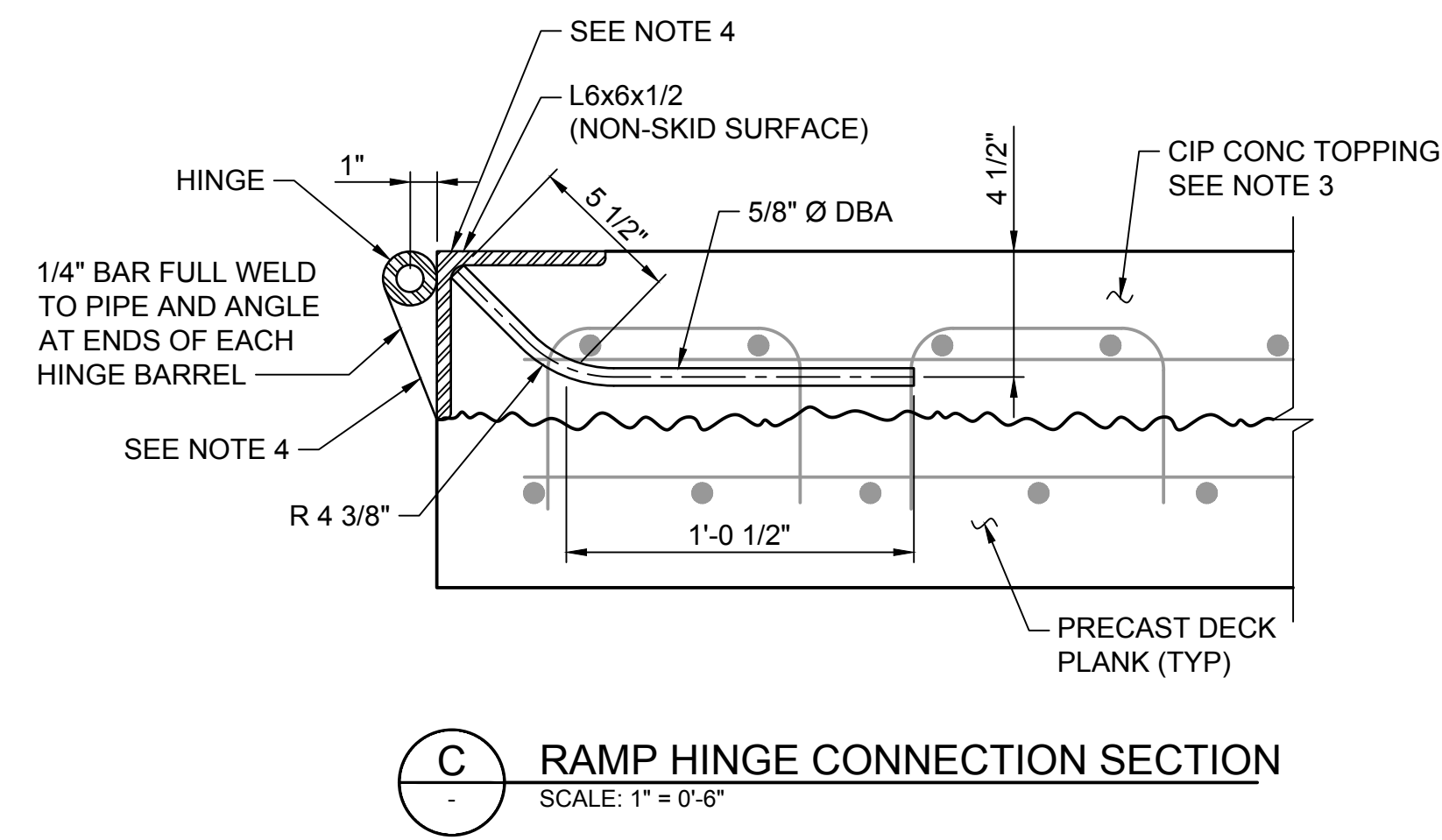
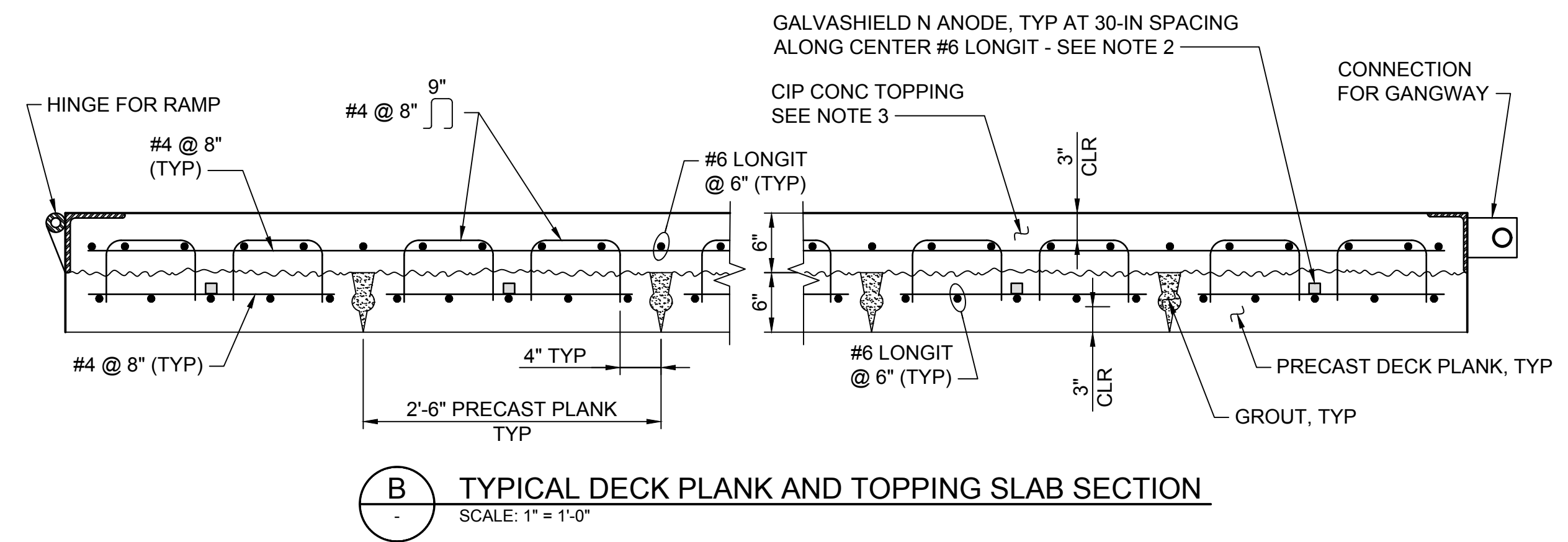
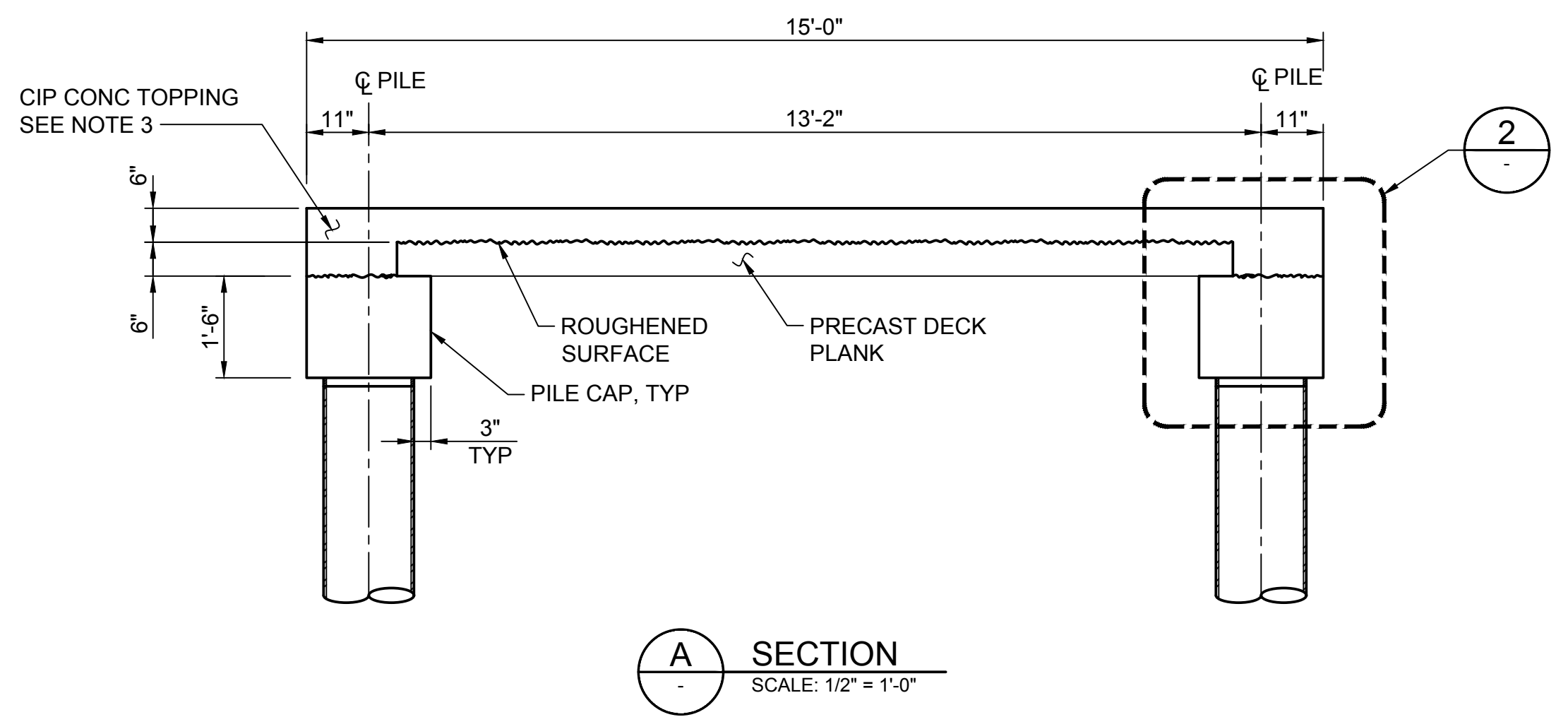
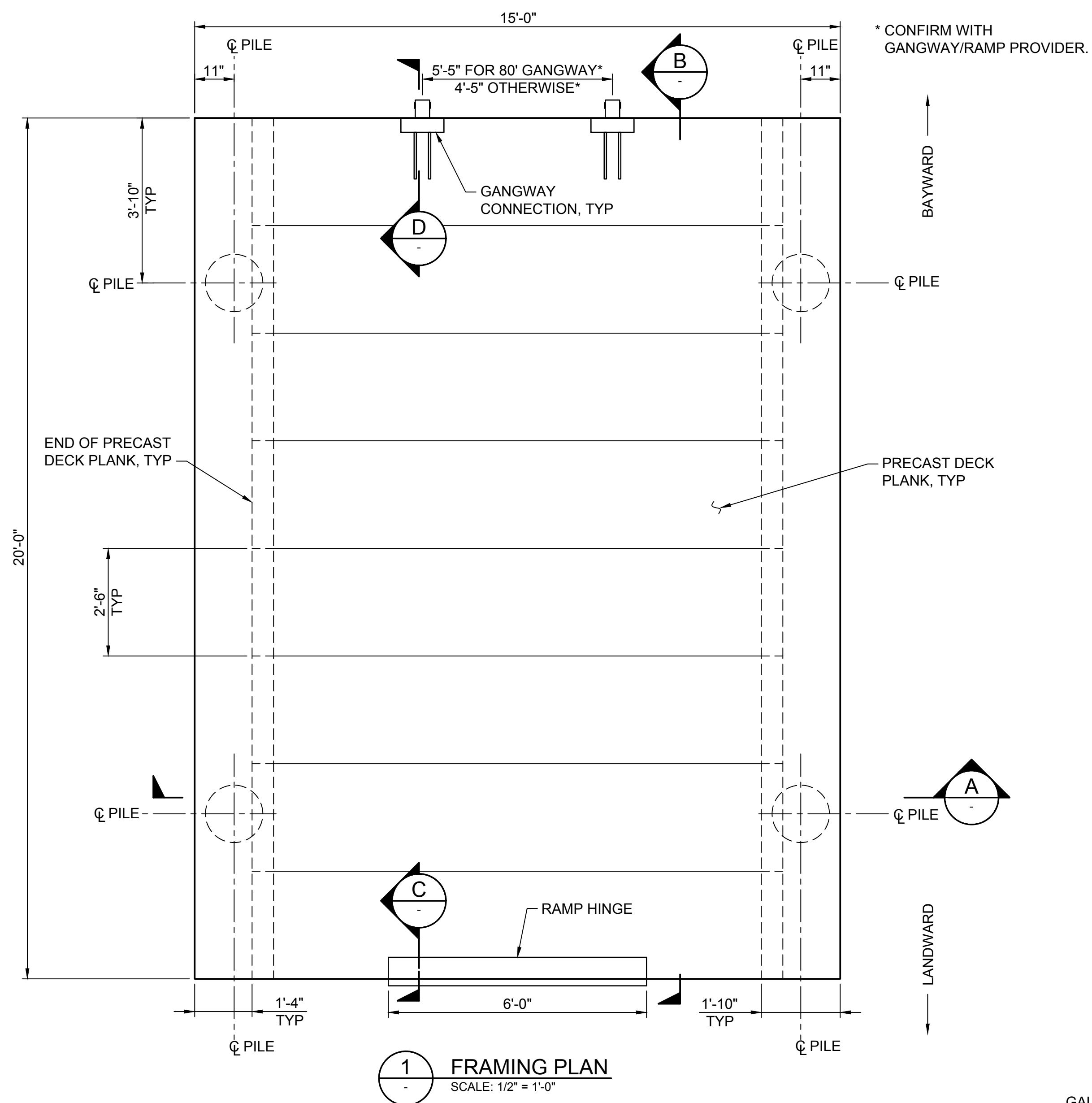


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DSGN	ME/NN	DR	EP	CHK	BP/RD
JOB NO.	9673-13	SUBMITTED BY		TITLE	

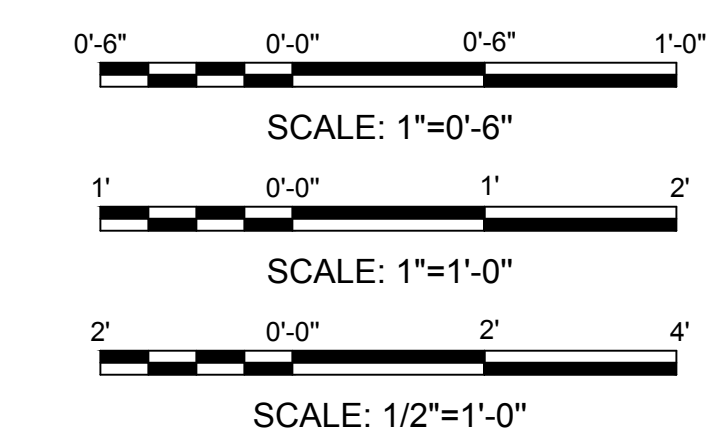
SAN MATEO COUNTY HARBOR DISTRICT OYSTER POINT MARINA WEST BASIN ACCESS IMPROVEMENTS	DATE	04-10-2024
	SHEET	20 OF 25
ACCESS PLATFORM PLAN	S-002	

File: C:\WC\673-13 Oyster Pt Docks 12-144_CADD_Active_Sheets\West Basin Access Improvements\673_13-S-003_Plot.dwg, 4/10/2024 4:27 PM by EPLESHCHUK



NOTES

1. PROVIDE SS316 TRAPEZE HANGER SYSTEM FOR UTILITIES IN ACCORDANCE WITH NFPA REQUIREMENTS, INCLUDING SEISMIC BRACING. LAYOUT AND DESIGN OF UTILITY HANGER SYSTEM SHALL BE PERFORMED BY THE CONTRACTOR.
2. PROVIDE ELECTRICAL CONNECTIVITY BETWEEN REBAR IN PRECAST CONCRETE AND CAST-IN-PLACE CONCRETE PER CATHODIC PROTECTION ANODE REQUIREMENTS.
3. CROSS SLOPE AND LONGITUDINAL SLOPE NOT SHOWN FOR CLARITY.
4. GANGWAY AND RAMP CONNECTION DETAILS TO BE PROVIDED BY ALUMINUM GANGWAY/RAMP MANUFACTURER.

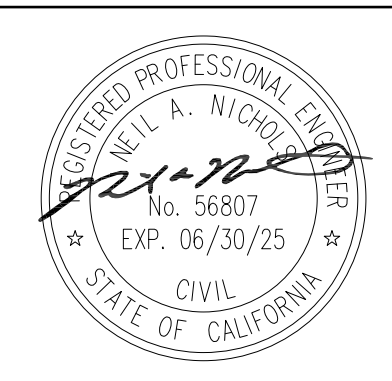


APRIL 10, 2024
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El Granada, CA 94018
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REVISION	DESCRIPTION	BY	DATE



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2185 N. CALIFORNIA BLVD.
SUITE 500
WALNUT CREEK, CA 94596

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JOB NO.	9673-13	SUBMITTED BY		TITLE	

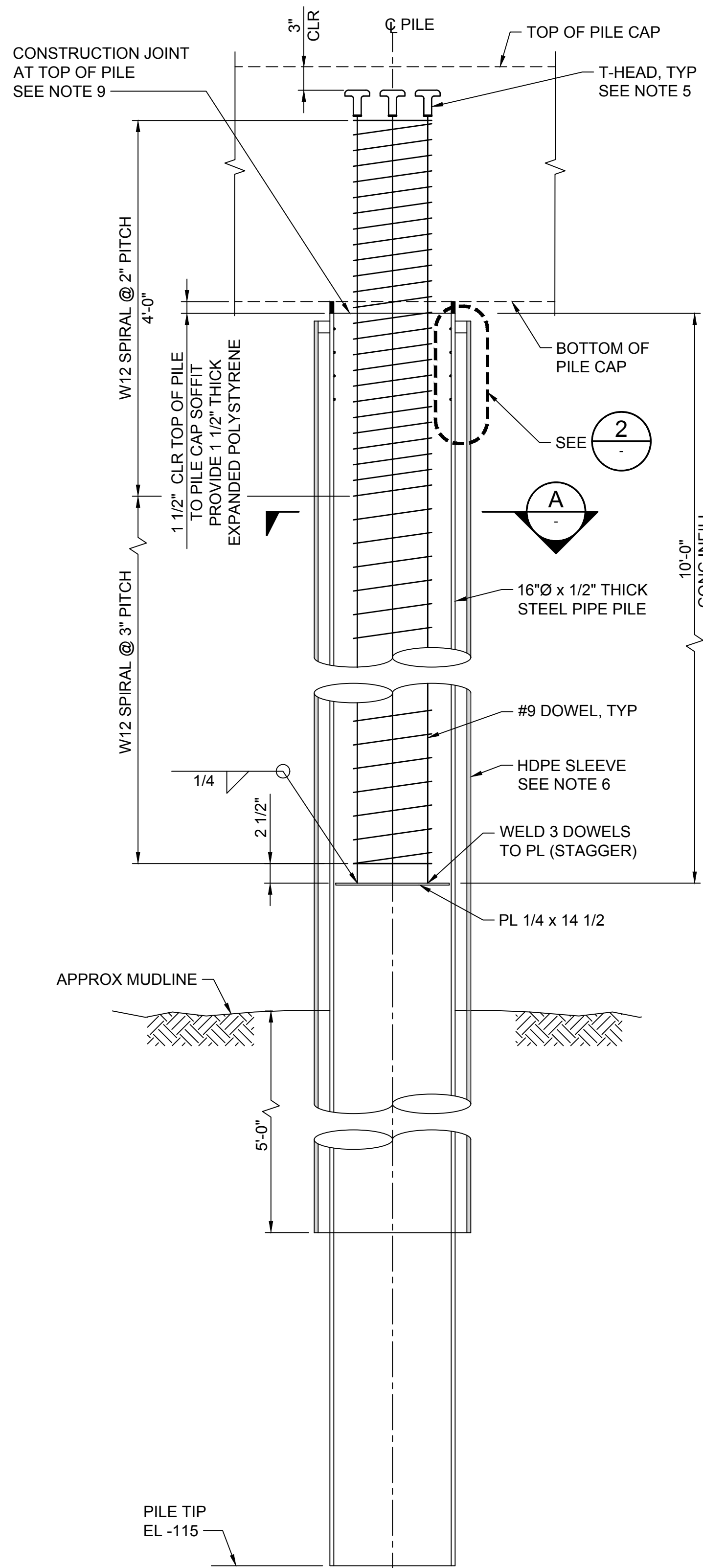
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OYSTER POINT MARINA
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DATE 04-10-2024
SHEET 21 OF 25

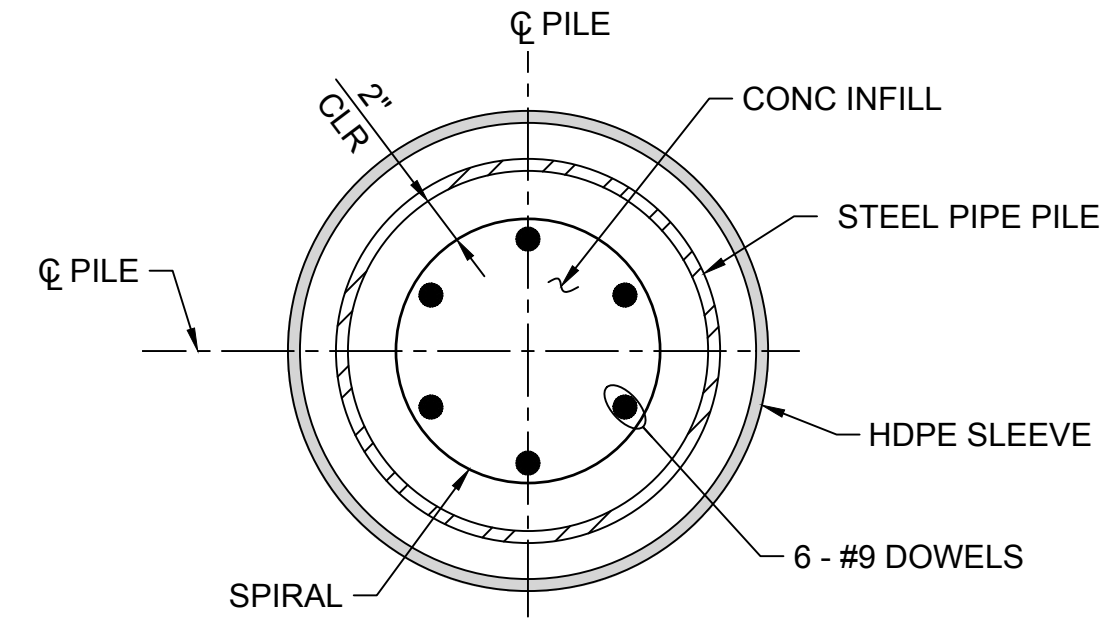
**ACCESS PLATFORM
STRUCTURAL DETAILS**

S-003

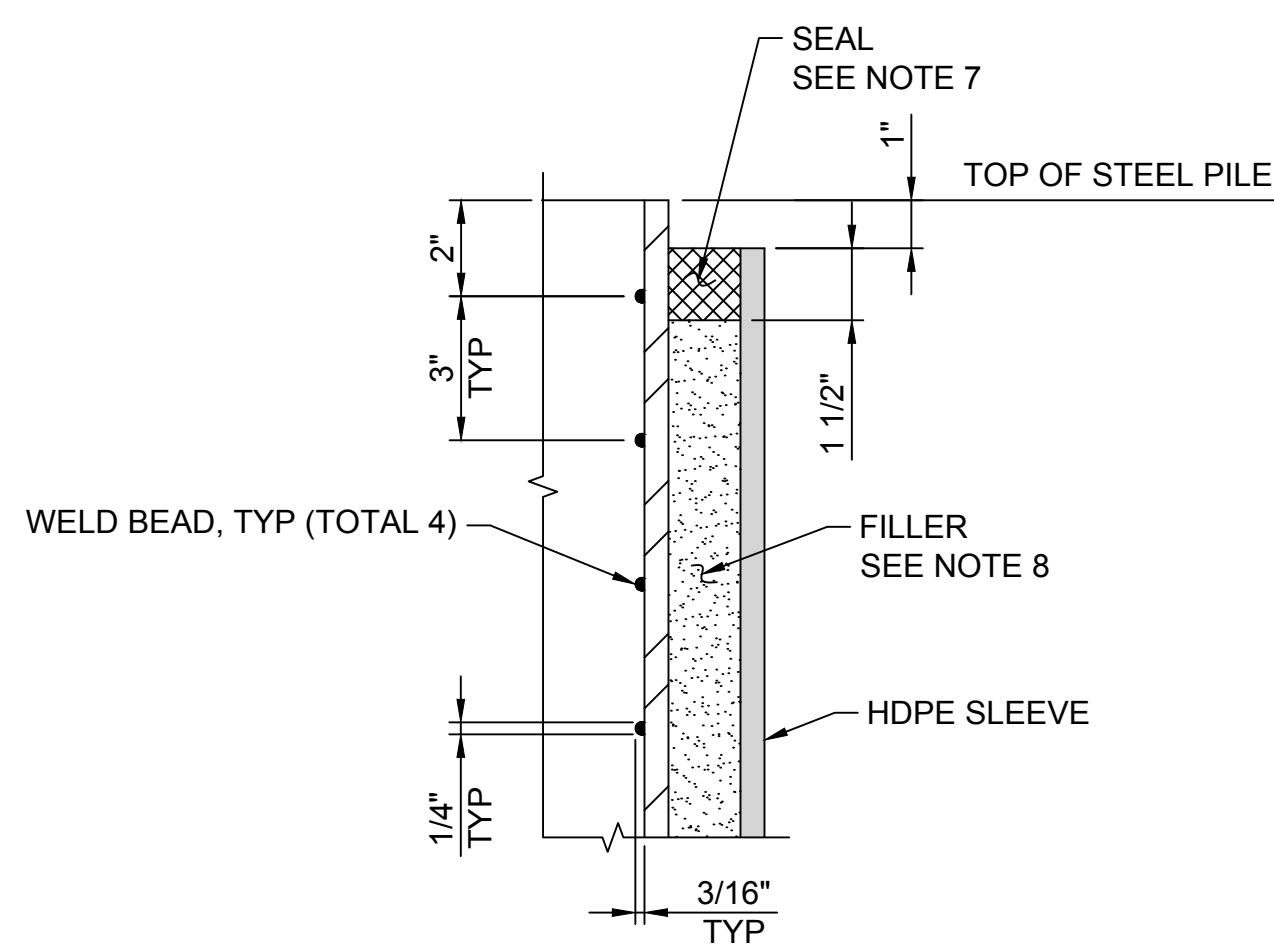
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1 16 INCH DIA STEEL PIPE PILE ELEVATION
SCALE: 1" = 1'-0"



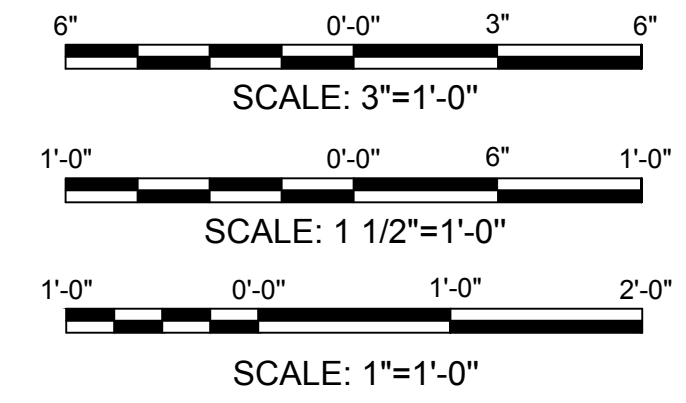
A SECTION
SCALE: 1 1/2" = 1'-0"



2 DETAIL
SCALE: 3" = 1'-0"

NOTES:

1. STEEL PIPE PILE SHALL CONFORM WITH ASTM A252 GRADE 3 (MOD) - 50 KSI MINIMUM YIELD STRENGTH.
2. PILE FABRICATION SHALL CONFORM TO ASTM A252 GRADE 3 (MOD) - 50 KSI MINIMUM YIELD STRENGTH.
3. ANCHOR THE ENDS OF SPIRALS WITH ONE AND A HALF EXTRA TURNS AND A 135° SEISMIC HOOK AROUND A BAR.
4. LAPPED SPLICES IN SPIRAL REINFORCEMENT SHALL BE LAPPED AT LEAST 80 WIRE DIAMETERS. SPIRAL REINFORCEMENT AT SPLICE ENDS SHALL BE TERMINATED WITH A 135° HOOK WITH A 6" TAIL HOOKED AROUND A LONGITUDINAL STRAND.
5. T-HEADS FOR DOWELS SHALL BE HRC 555 PER ASTM A706 GRADE 80.
6. HDPE SLEEVE ALLOWABLE DIMENSIONS:
A. MINIMUM WALL THICKNESS 0.5"
B. MINIMUM INSIDE DIAMETER 16.5"
C. MAXIMUM OUTSIDE DIAMETER 20".
7. SEALANT SHALL BE POLYURETHANE SEALANT 540 BY 3M OR APPROVED EQUAL.
8. FILLER SHALL BE 30-MESH SAND AND SHALL FILL THE SPACE BETWEEN THE PIPE PILE AND THE SLEEVE.
9. CONSTRUCTION JOINT SHALL BE CONSTRUCTED WHERE SHOWN.

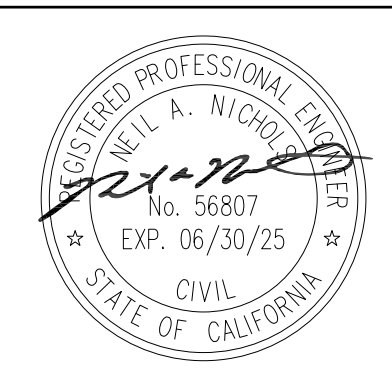


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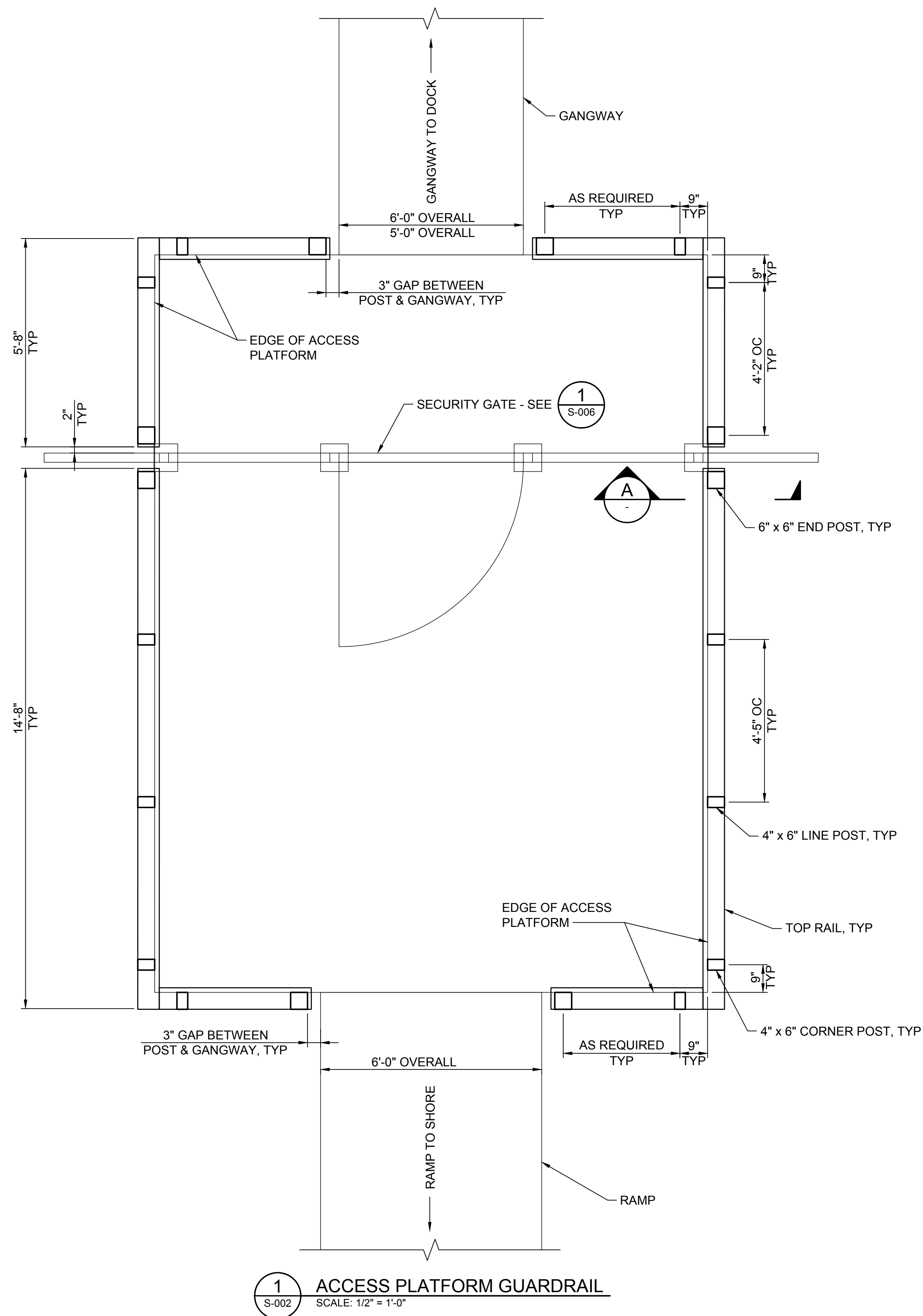
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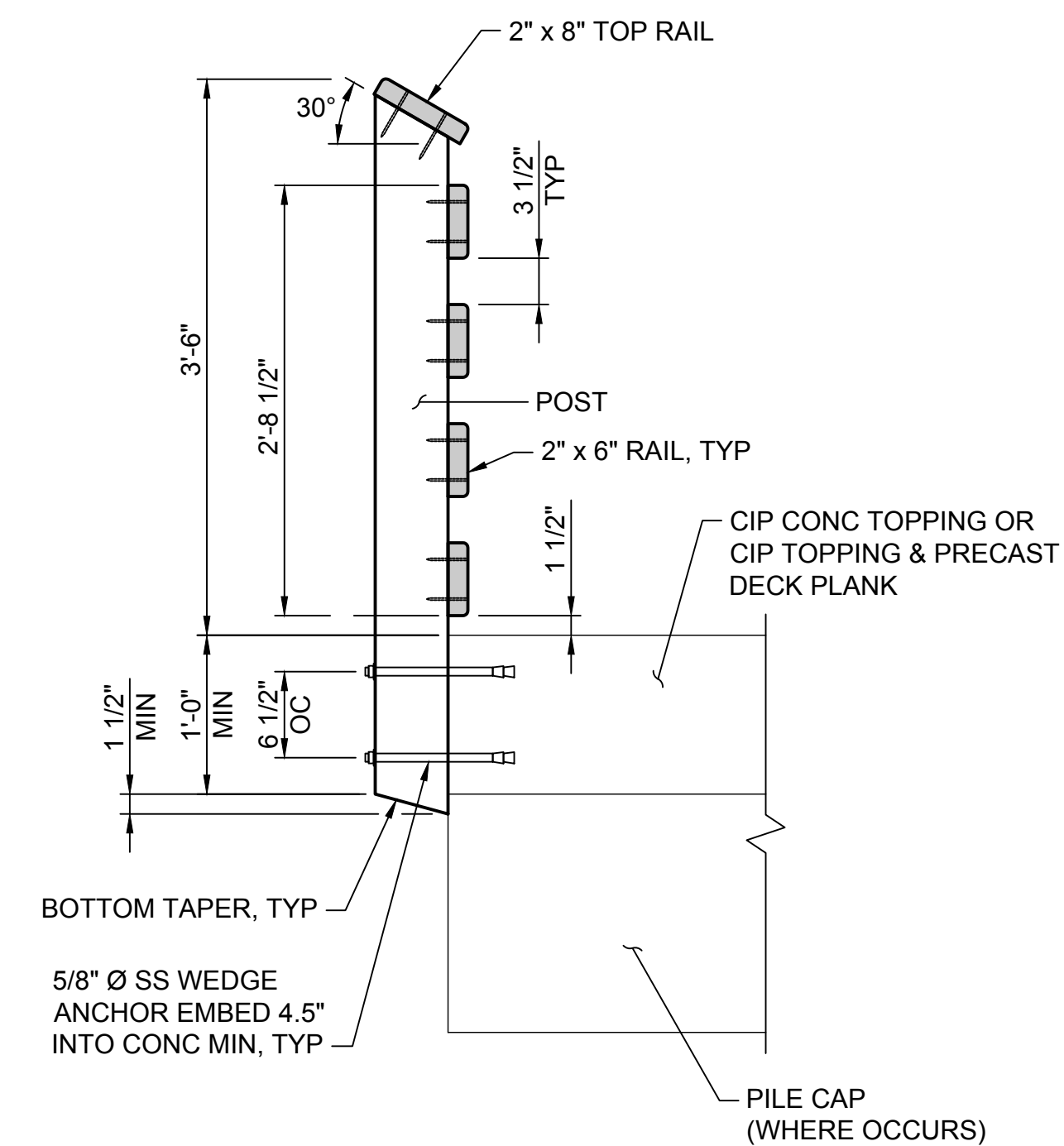
DATE 04-10-2024
SHEET 22 OF 25

ACCESS PLATFORM PILE DETAILS **S-004**

File: C:\WC\67-13 Oyster Pt Docks 12-144_CADD_Active_Sheets\West Basin Access Improvements\67-13-S-005_Plot.dwg, 4/10/2024 4:14 PM by PLESCHUK, ELENA, Saved: 4/10/2024 3:15 PM by EPLESHCHUK



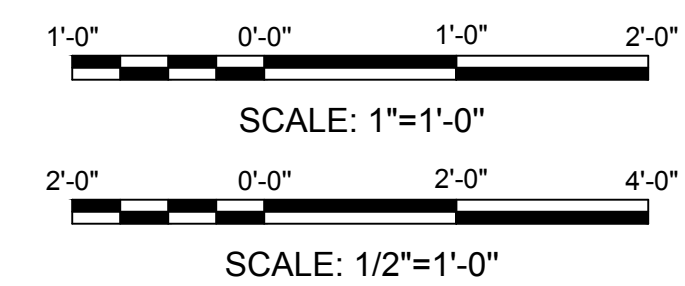
1 ACCESS PLATFORM GUARDRAIL
S-002 SCALE: 1/2" = 1'-0"



A TYPICAL GUARDRAIL SECTION
SCALE: 1" = 1'-0"

NOTES:

1. FASTEN RAILS TO POST USING TWO NOMINAL 1/4"Øx4" (#14x4") LONG WOOD SCREWS AT EACH POST.
2. ALL GUARDRAIL MEMBERS SHALL BE PLASTIC LUMBER.
3. ALL HARDWARE SHALL BE SS316.



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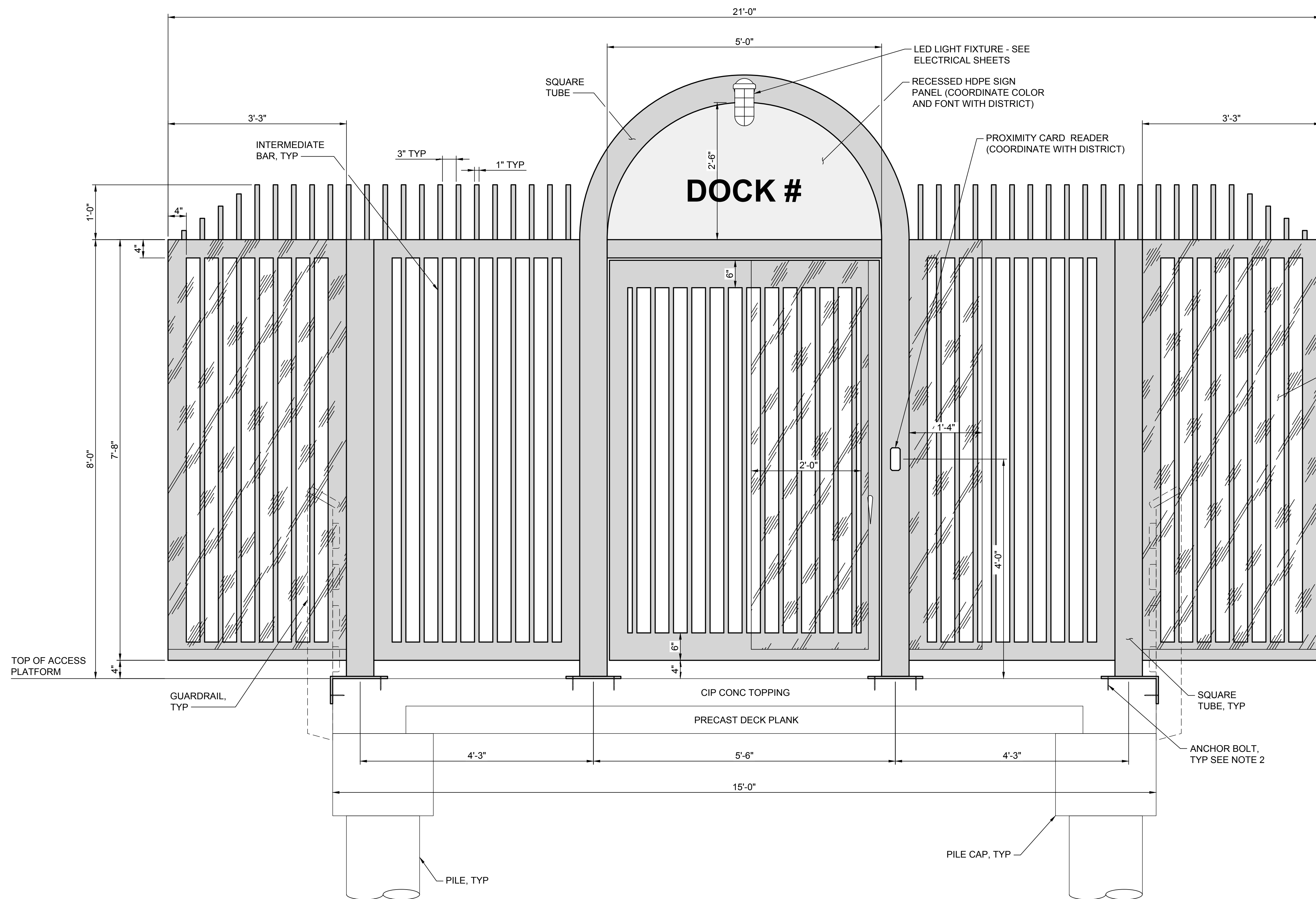
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JOB NO.	9673-13	SUBMITTED BY		TITLE	

SAN MATEO COUNTY HARBOR DISTRICT
OYSTER POINT MARINA
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DATE 04-10-2024
SHEET 23 OF 25

ACCESS PLATFORM GUARDRAIL **S-005**

File: C:\WC\67-13 Oyster Pt Docks 12-144_CADD_Active_Sheets\West Basin Access Improvements\67-13-S-006_Plot.dwg, Plotted: 4/10/2024 4:15 PM by PLESHCHUK, ELENA, Saved: 4/10/2024 2:50 PM by PLESHCHUK



NOTES

1. ALL STRUCTURAL MEMBERS AND HARDWARE SHALL BE SS316.
2. ANCHOR BOLT LENGTH SHALL NOT EXCEED 6".

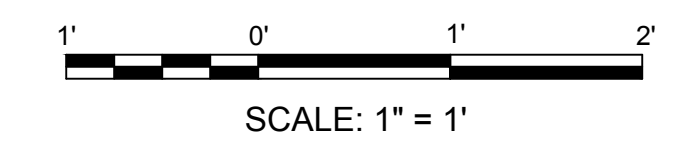
LEGEND



PLEXIGLASS ON BOTH SIDES OF EACH OUTERMOST PANEL, TYP

1 SECURITY GATE DETAIL

C-012, C-013, S-002, S-005
C-011 SCALE: 1" = 1'-0"

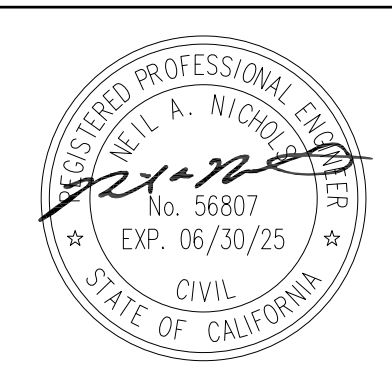


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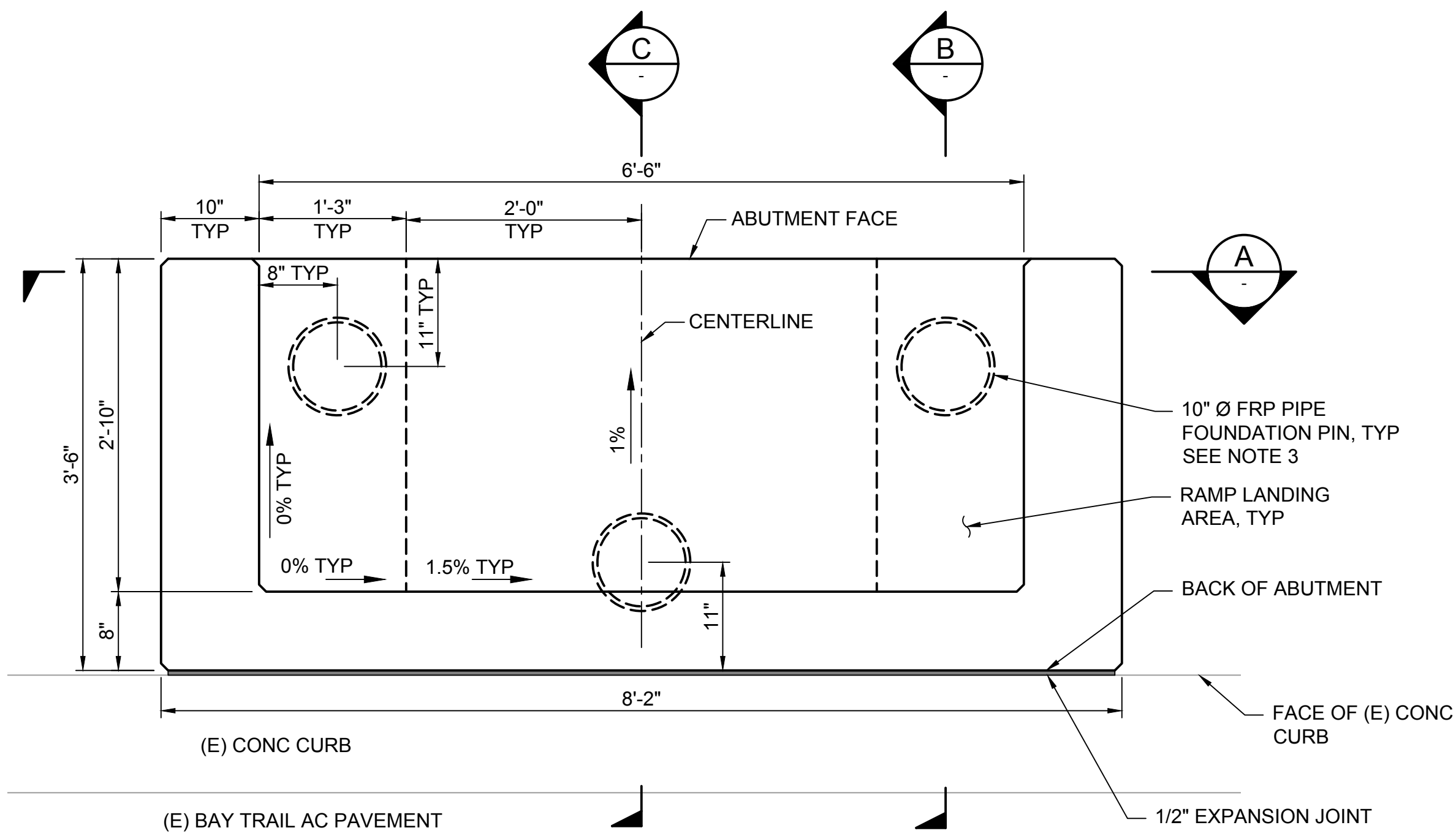


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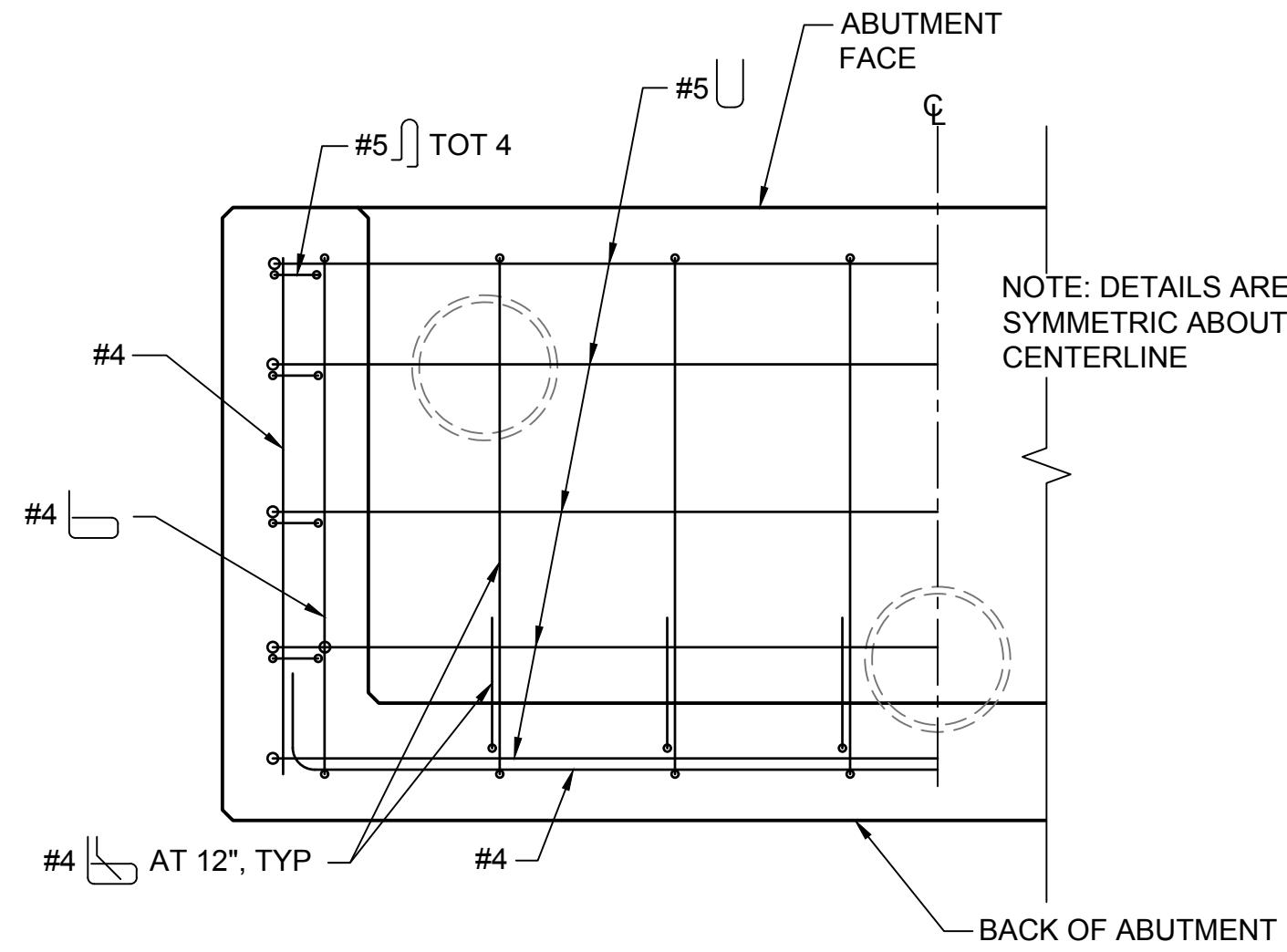
DSGN	NN	DR	EP	CHK	BP/RD
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SAN MATEO COUNTY HARBOR DISTRICT
OYSTER POINT MARINA
WEST BASIN ACCESS IMPROVEMENTS

DATE	04-10-2024
SHEET	24 OF 25
SECURITY GATE DETAILS	S-006



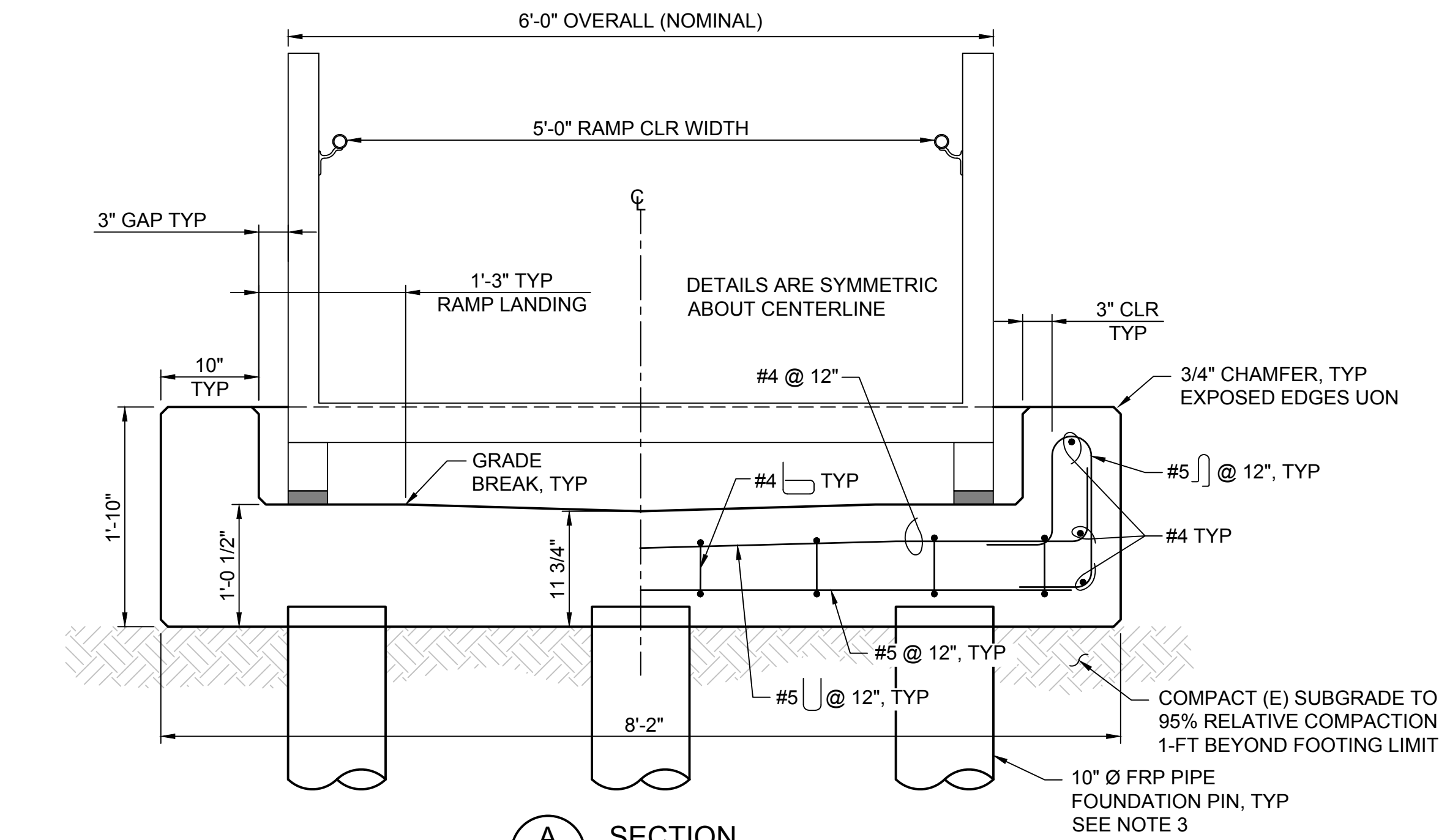
1 CONCRETE ABUTMENT PLAN
SCALE: 1" = 1"
C-012, C-013



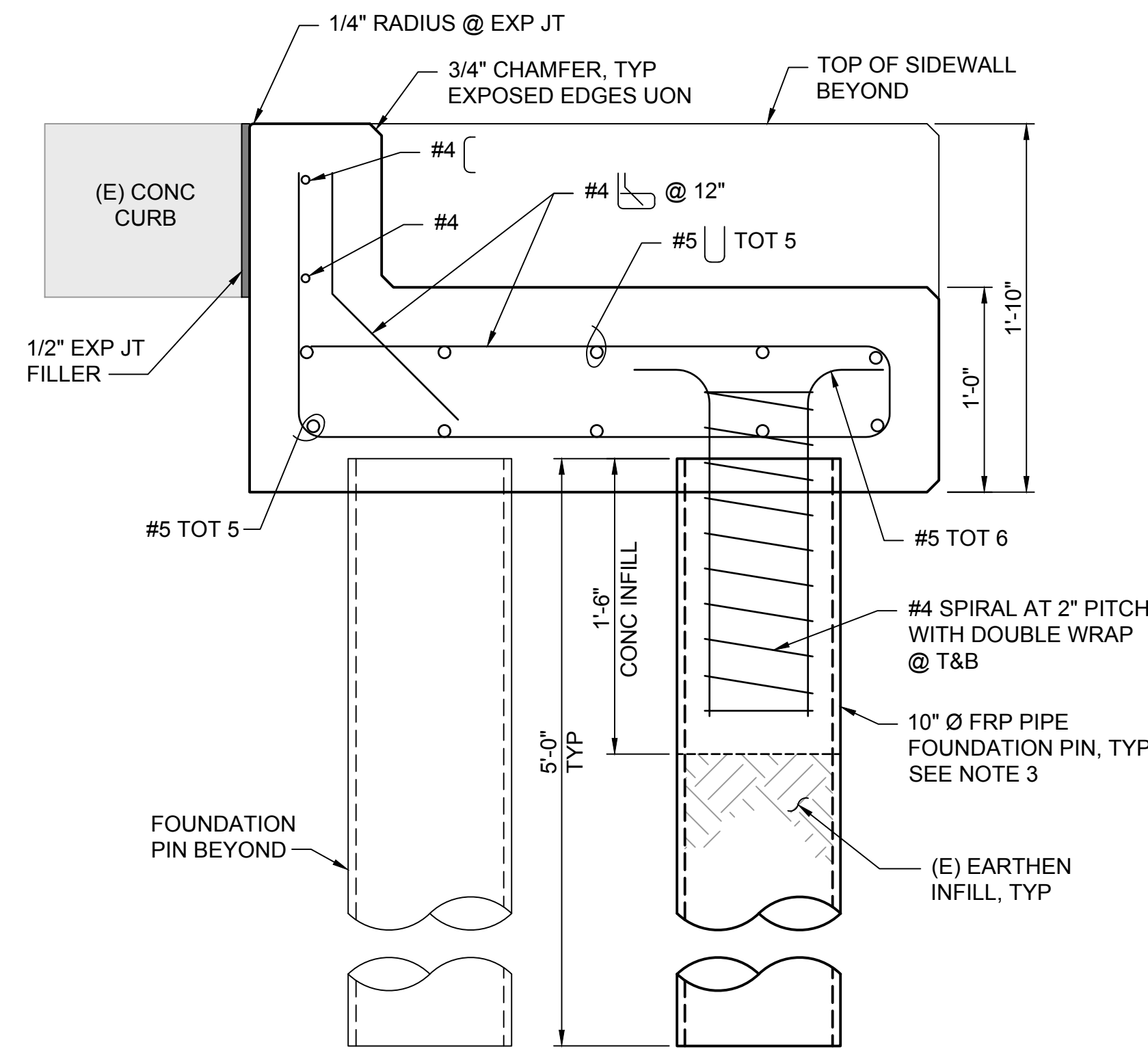
2 REINFORCING DETAILED PLAN
SCALE: 1" = 1"

NOTES

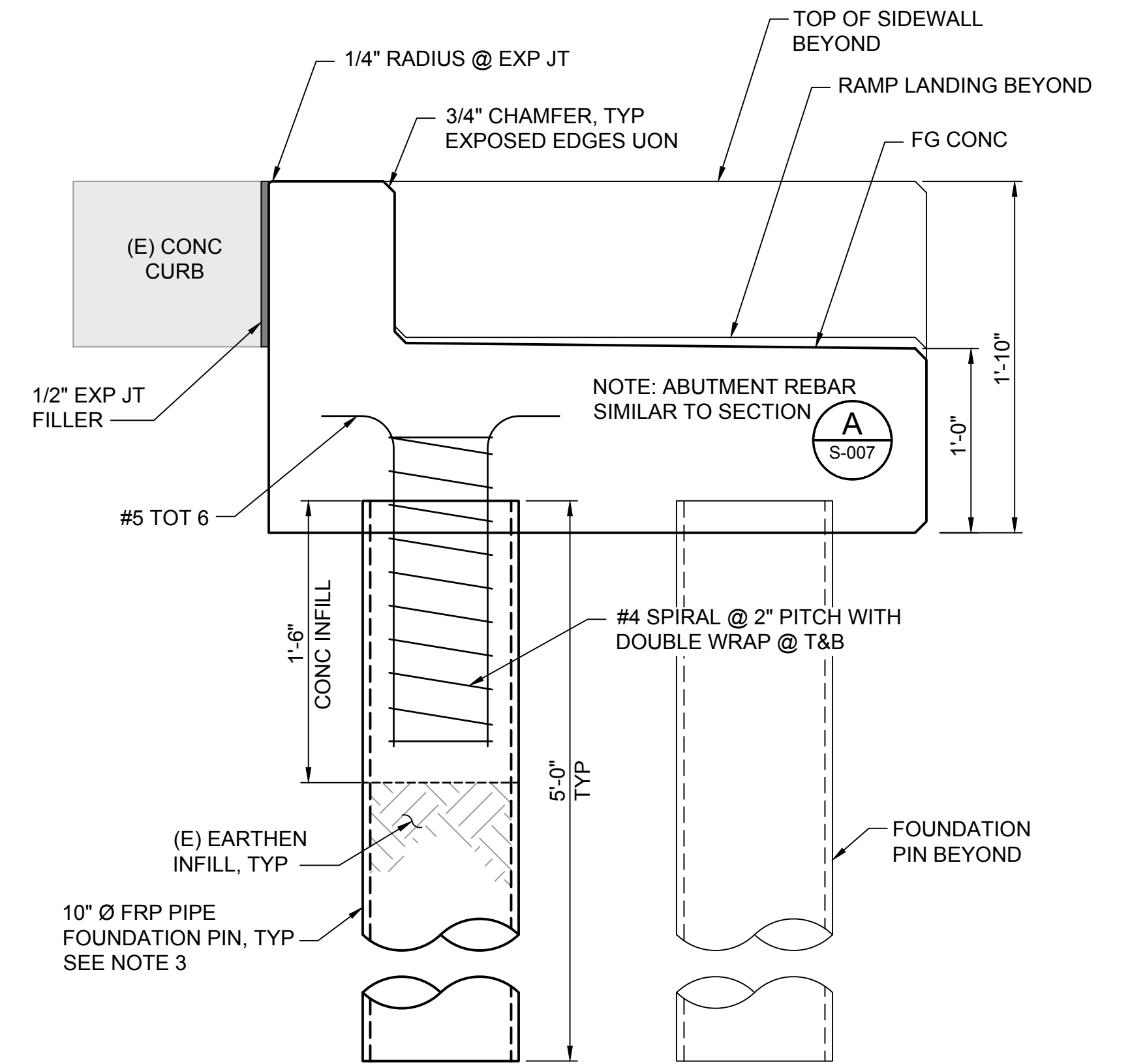
1. FOUNDATION PINS ARE INTENDED TO PROVIDE ADDITIONAL RESISTANCE TO OVERTURNING AND SLIDING OF ABUTMENTS, AND TO ADDRESS POTENTIAL SCOUR AT THE FRONT FACE OF THE ABUTMENT ALONG THE EXISTING SLOPED SHORELINE.
2. THE ABUTMENT IS INTENDED TO ACT AS A STRUCTURE WITH A SPREAD FOOTING. AS THE BAY TRAIL AND SURROUNDING AREA CONSOLIDATE AND SETTLE OVER TIME, THE ABUTMENT IS INTENDED TO SETTLE AT THE SAME RATE AND REDUCE THE POTENTIAL FOR DIFFERENTIAL SETTLEMENT.
3. FIBERGLASS REINFORCED POLYMER (FRP) PIPE SHALL BE MANUFACTURED BY THE PULTRUSION PROCESS USING A POLYMER BINDER WITH E-GLASS REINFORCEMENT. MINIMUM E-GLASS REINFORCEMENT TENSILE STRENGTH SHALL BE 290 KSI PER ASTM D2343. MINIMUM WALL THICKNESS SHALL BE 3/8". ACCEPTABLE PRODUCT: SUPERPILE BY CREATIVE PULTRUSIONS, OR APPROVED EQUAL.



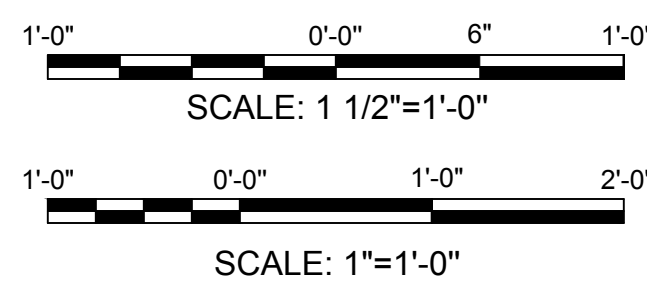
A SECTION
SCALE: 1" = 1"



B SECTION AT RAMP LANDING AREA
SCALE: 1-1/2" = 1"



C SECTION AT CENTERLINE
SCALE: 1-1/2" = 1"



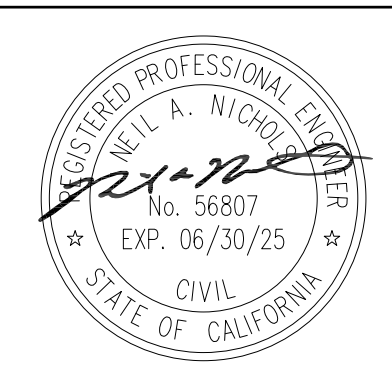
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WEST BASIN ABUTMENT DETAILS

DATE 04-10-2024
SHEET 25 OF 25
S-007