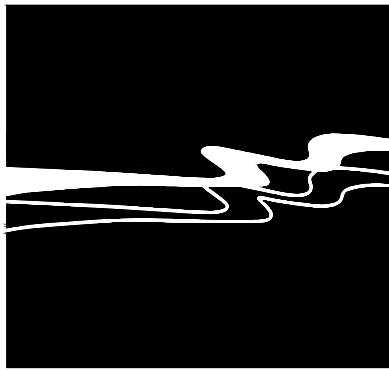


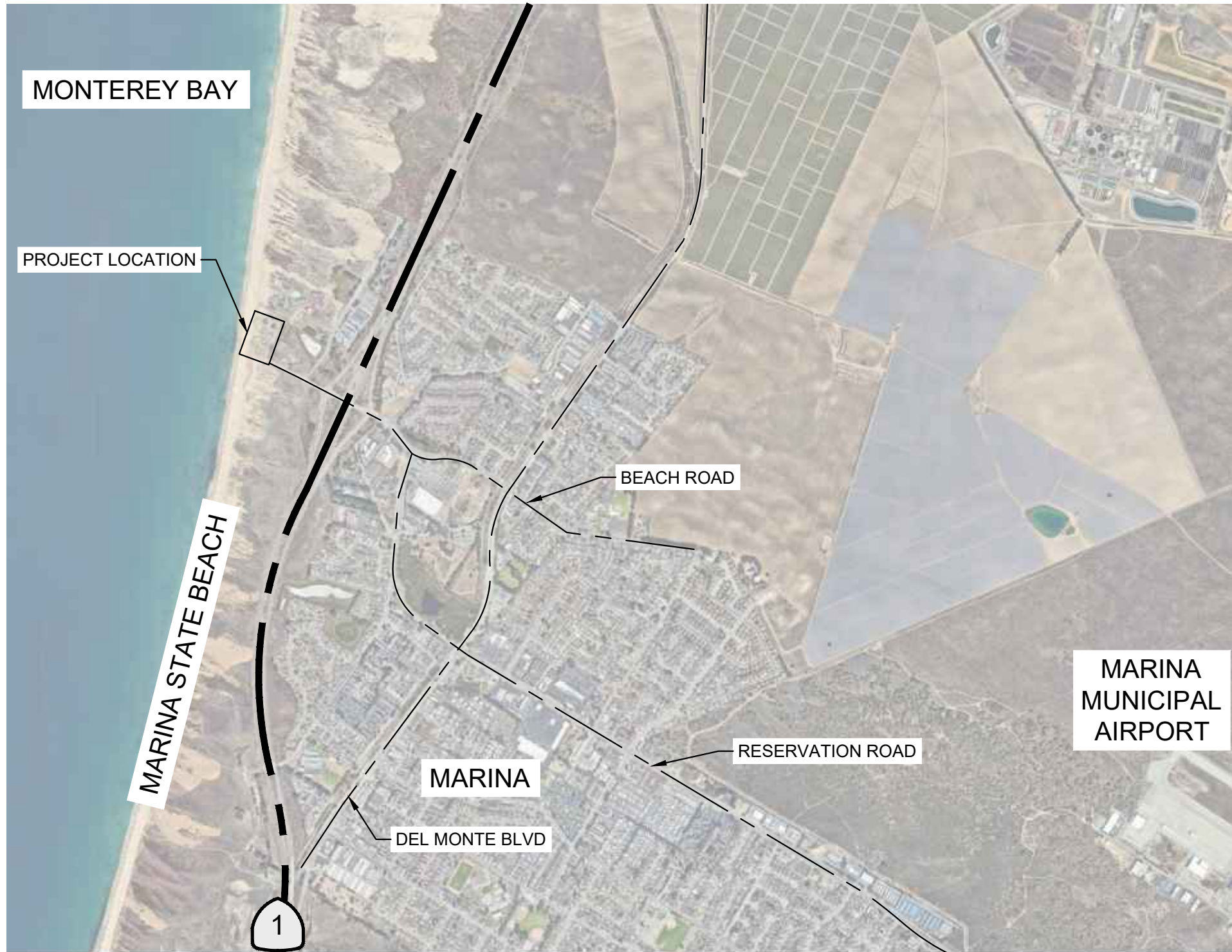
MARINA COAST WATER DISTRICT
RESERVATION ROAD DESAL PLANT RENOVATION
CIP GW-2404GN
11 RESERVATION ROAD, MARINA, CA 93933
MONTEREY COUNTY



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AREA MAP

SCALE: NTS



VICINITY MAP

SCALE: NTS

PROJECT TEAM		
DISCIPLINE	CONSULTANT	CONTACT
CIVIL	WALLACE GROUP	BRYAN CHILDRESS, (805)-644-4011
ELECTRICAL	OTTO ELECTRICAL, INC	GARRETT OTTO, (805)-459-4329
GEOTECH	EARTH SYSTEMS	MICHELLE GARCIA, (831)-240-4624
HYDROGEOLOGIST	CLEATH-HARRIS GEOLOGISTS, INC	NEIL HARRIS, (805)-543-1413
WATER TREATMENT	WATERWORKS	MIKE FISCHER, (916)-780-2888

SCOPE OF WORK:

REHABILITATE THE EXISTING INTAKE WELL AND INJECTION WELL. INSTALL REPLACEMENT INTAKE WELL PUMP. REHABILITATE AND REPAIR THE EXISTING INTAKE WELL AND INJECTION WELL PIPING AND WELLHEADS. REPLACE PIPE, FLOWMETER, AND VALVING AT RO BUILDING FOR FUTURE WATER QUALITY SAMPLING. A SCHEMATIC PROCESS FLOW DIAGRAM IS SHOWN ON SHEET G-2.0.

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G-2.0	ABBREVIATIONS, LEGEND, AND NOTES
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C-2.0	INTAKE WELL & ACCESS SITE PLAN
C-3.0	SITE PLAN
C-3.1	INTAKE WELL PIPELINE
C-3.2	INJECTION WELL PIPELINE
C-4.0	TYPICAL DETAILS
C-4.1	CIVIL DETAILS, SHEET 1 OF 3
C-4.2	CIVIL DETAILS, SHEET 2 OF 3
C-4.3	CIVIL DETAILS, SHEET 3 OF 3
C-5.0	EROSION CONTROL PLAN
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E-1.0	SINGLE LINE DIAGRAM
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E-4.0	PUMP CONTROL SCHEMATIC

APPROVED BY:

JACK GAO, PMP
SENIOR PROJECT MANAGER
MARINA COAST WATER DISTRICT



SIGNATURE

DATE SIGNED

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MARINA COAST WATER DISTRICT
RESERVATION ROAD DESAL PLANT RENOVATION
TITLE SHEET

JOB #: 1045-11
DESIGNERS: ZCM
DRAWN BY: LJF
DATE: 11/19/25
DRAWING NO.

G-1.0

1 OF 18 SHEETS



Rev.	Date	Description of Revisions	By

ABBREVIATIONS

AC	ASPHALTIC CONCRETE
ACP	ASBESTOS CEMENT PIPE
AVG	AVERAGE
BF	BLIND FLANGE
BLDG	BUILDING
BM	BENCH MARK
C	CURB
CL	CENTERLINE
CLASS	CLASS
CMP	CORRUGATED METAL PIPE
CO	CLEANOUT
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CP	CATHODIC PROTECTION
CPLG	COUPLING
CY	CUBIC YARD
DET	DETAIL
DI	DUCTILE IRON (PIPE)
DIA	DIAMETER
DIM	DIMENSION
D/W	DRIVEWAY
E	EACH
ELE	ELEVATION
EP	EDGE OF PAVEMENT
EX	EXISTING
EG	EXISTING GROUND
FCA	FLANGE COUPLING ADAPTOR
FF	FINISH FLOOR
FG	FINISH GRADE
FL	FLOW LINE
FLG	FLANGE
FS	FINISH SURFACE
FT	FEET
G	GAS
GA	GAGE
GAL	GALLON
GALV	GALVANIZED
GB	GRADE BREAK
GPD	GALLONS PER DAY
GPM	GALLONS PER MINUTE
HDPE	HIGH DENSITY POLYETHYLENE
HGL	HYDRAULIC GRADE LINE
ID	INSIDE DIAMETER
IN	INCHES
INV	INVERT
L	LENGTH
LAT	LATERAL
LF	LINEAR FEET
LP	LIGHT POLE
LS	LIFT STATION
LT	LEFT
M	METER
MAX	MAXIMUM
MIN	MINIMUM
MISC	MISCELLANEOUS
MH	MANHOLE
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NGVD	NATIONAL GEODETIC VERTICAL DATUM
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NPS	NOMINAL PIPE SIZE
NTS	NOT TO SCALE
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
PCC	PORTLAND CEMENT CONCRETE
PH	POTHOLE (UTILITY WAS POTHOLED)
POC	POINT OF CONNECTION
PP	POWER POLE
PSF	POUND PER SQUIRE FOOT
PSI	POUND PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
R	RADIUS
RC	REINFORCED CONCRETE
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
REQD	REQUIRED
RT	RIGHT
R/W	RIGHT OF WAY
SS	SANITARY SEWER
SCH	SCHEDULE
SD	STORM DRAIN
SHT	SHEET
SPEC	SPECIFICATIONS
SSFM	SANITARY SEWER FORCE MAIN
SST	STAINLESS STEEL
ST	STREET
STA	STATION
STD	STANDARD
STL	STEEL
SV	SOLENOID VALVE
SW	SIDEWALK
T	TELEPHONE
TB	THRUST BLOCK
TB	TOP OF BANK
TC	TOP OF CURB
TF	TOP OF FOOTING
TG	TOP OF GRATE
TP	TOP OF PAVEMENT
TYP	TYPICAL
TW	TOP WALL
UCN	UNLESS OTHERWISE NOTED
UTL	COMMON TRENCH UTILITIES
VAR	VARIES
VIC	VICTAULIC COUPLING
VERT	VERTICAL
W	WATER
WF	WIDE FLANGE
WL	WATER LINE
WM	WATER METER
WS	WATER SERVICE
WV	WATER VALVE
WWM	WELDED WIRE MESH
WW	WET WELL

*NOTE: THIS IS A STANDARD SET OF ABBREVIATIONS. NOT ALL ABBREVIATIONS SHOWN WILL APPLY TO THIS WORK.

LEGEND

EXISTING

0.50% 2:1
EG= 225.45

SS WL

WL WL

CTV

ELE

GAS

TCOM

UTL

SSFM

SS

SD

WL

FIRE

SS SS

SB SD

SS SS

SS SS

SS SS

SS SS

SS SS

SS SS

SS SS

SS SS

SS SS

SS SS

SS SS

SS SS

SS SS

SS SS

PROPOSED

0.50% 2:1
FG= 225.45

WL WL

WL WL

CTV

ELE

GAS

TCOM

UTL

SS

SD

WL

FIRE

SS SS

SB SD

SS SS

SS SS

SS SS

SS SS

SS SS

SS SS

SS SS

SS SS

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SS SS

SS SS

SS SS

SS SS

SS SS

SS SS

DESCRIPTION

SLOPE

SPOT ELEVATIONS

SEWER LATERAL

WATER SERVICE

WATER SERVICE MANIFOLD

ABANDON UTILITY

EXISTING EDGE OF PAVEMENT

UNDERGROUND CABLE

TELEVISION LINE

UNDERGROUND ELECTRICAL

LINE

UNDERGROUND GAS LINE

UNDERGROUND

TELECOMMUNICATIONS LINE

SEWER FORCE MAIN

GRAVITY SEWER LINE

STORM DRAIN

WATER LINE

SEWER FORCE MAIN

GRAVITY SEWER LINE

STORM DRAIN

WATER LINE

22.5" ELBOW

45° ELBOW

90° ELBOW

BALL VALVE

BUTTERFLY VALVE

CHECK VALVE

COUPLING - RESTRAINED

COUPLING - RESTRAINED FLANGE ADAPTOR

EXPANSION JOINT

FIRE HYDRANT

GATE VALVE

GLOBE VALVE

PLUG VALVE

REDUCING TEE

REDUCER

SEWER CLEANOUT

SEWER MANHOLE

STORM DRAIN MANHOLE

STORM DRAIN CURB INLET

STORM DRAIN CATCH BASIN

TEE

PIPE TAG

*NOTE: THIS IS A STANDARD SET OF SYMBOLS. NOT ALL SYMBOLS SHOWN WILL APPLY TO THIS WORK.

GENERAL NOTES

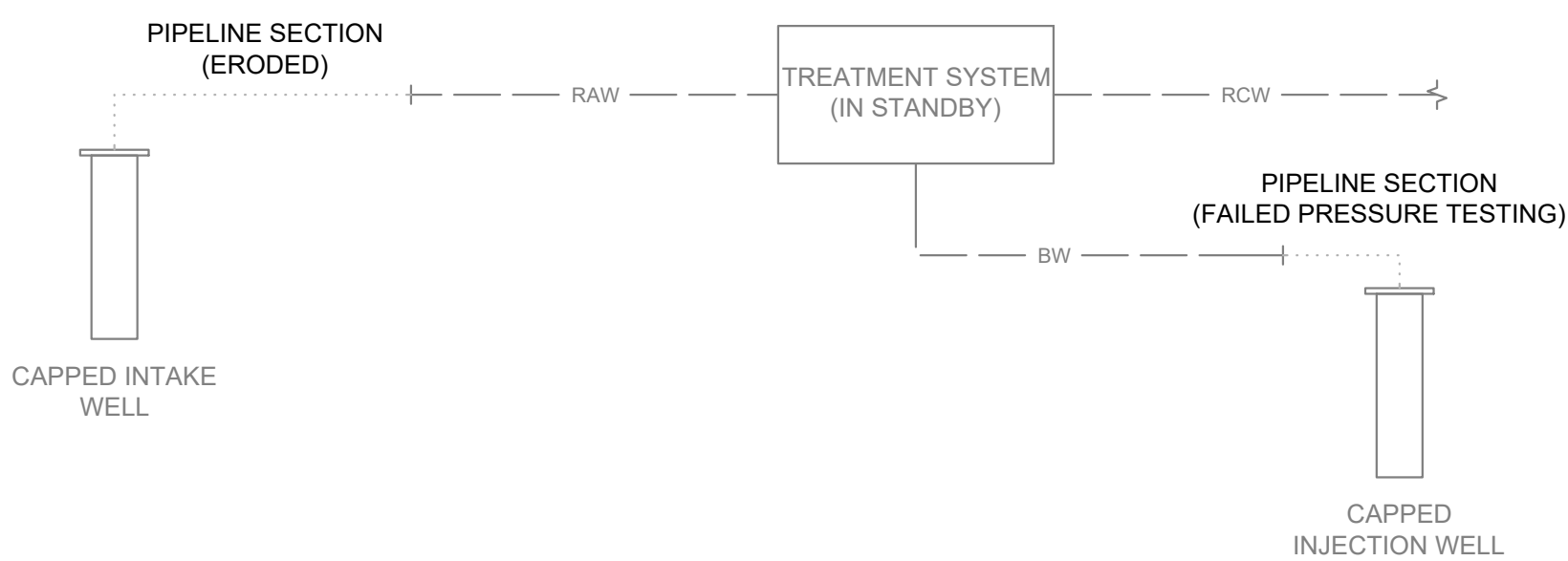
- THESE PLANS ARE PART OF A SET OF CONTRACT DOCUMENTS AND SHALL NOT BE CONSIDERED THE SOLE SOURCE OF CONSTRUCTION INFORMATION. ALL CONSTRUCTION WORK AND INSTALLATIONS SHALL CONFORM TO THE MARINA COAST WATER DISTRICT (MCWD/OWNER) AND THE CITY OF MARINA (CITY) STANDARD DRAWINGS AND SPECIFICATIONS, THE CONTRACT DOCUMENTS, AND WORK SHALL BE SUBJECT TO THE APPROVAL OF MCWD, THE COUNTY, AND STATE PARKS.
- THE CONTRACTOR SHALL HAVE COPIES OF THE APPROVED CONTRACT DOCUMENTS FOR THIS PROJECT ON SITE AT ALL TIMES AND SHALL BE FAMILIAR WITH ALL APPLICABLE STANDARDS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE DURING THE COURSE OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE ENGINEER AND OWNER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER, OR THIRD PARTY IN VIOLATION OF THE LAW OR IN TRESPASS. THE CONTRACTOR SHALL PRACTICE SAFETY AT ALL TIMES AND SHALL FURNISH, ERECT, AND MAINTAIN, SUCH FENCES, BARRICADES, LIGHTS, AND SIGNS NECESSARY TO GIVE ADEQUATE PROTECTION TO THE PUBLIC AT ALL TIMES.
- INFORMATION PERTAINING TO EXISTING UNDERGROUND FACILITIES IS BASED ON RECORD INFORMATION AND IS AS SHOWN FOR INFORMATIONAL PURPOSES ONLY. UNDERGROUND FEATURES SHOWN IN PLAN VIEW ON THE PLANS ARE INDICATED WITH THEIR APPROXIMATE LOCATION AND EXTENT, AND MAY NOT APPEAR IN PROFILE OR SECTION VIEWS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL AGENCIES INVOLVED AND SHALL LOCATE ALL FACILITIES PRIOR TO EXCAVATION IN ANY AREA. THE CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT (USA), TOLL FREE AT 1-800-642-2444, MCWD, THE CITY OF MARINA, AND STATE PARKS, A MINIMUM 5 WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL CONTINUALLY REVIEW JOB SITE CONDITIONS. CONDITIONS REQUIRING CONSTRUCTION DIFFERENT FROM THAT SHOWN ON THE PLANS SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY AND PRIOR TO PROCEEDING WITH THE AFFECTED CONSTRUCTION.
- THESE DRAWINGS REPRESENT THE FINISHED CONDITION AND UNLESS OTHERWISE INDICATED, THEY DO NOT SHOW THE METHOD OF CONSTRUCTION.
- ALL IMPROVEMENTS SHOWN OR INDICATED ON THESE DRAWINGS ARE TO BE CONSTRUCTED AND/OR INSTALLED BY THE CONTRACTOR IN THIS PROJECT, UNLESS THEY ARE CALLED OUT AS: "EXISTING", "FUTURE", "NIC", "NOT A PART", OR HAVE SOME OTHER EXCLUDING NOTATION.
 - TYPICALLY ALL LINE WORK DISPLAYED IN BOLD OR BLACK LINEWORK INDICATES NEW WORK, AND GRAY OR SCREENED LINE WORK INDICATES EXISTING WORK OR NEW WORK SCREENED BACK FOR CLARITY.
- THE CONTRACTOR SHALL KEEP A SET OF PROJECT DRAWINGS ON WHICH RECORD INFORMATION SHALL BE PLACED NOTING DEVIATIONS FROM THE PLANS IN THE LOCATION, GRADE, SIZE, TYPE, AND SCOPE OF WORK WHICH IS CONSTRUCTED.
- OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) REQUIREMENTS AND STANDARDS SHALL BE OBSERVED AT THE JOB SITE AT ALL TIMES.
- CONTRACTOR SHALL ORGANIZE A PRE-CONSTRUCTION MEETING PRIOR TO COMMENCEMENT OF WORK. THE MEETING SHALL INCLUDE (AT A MINIMUM) THE OWNER/REPRESENTATIVE, CONTRACTORS, SUBCONTRACTORS, ENGINEER OF RECORD, SOILS ENGINEER, PERTINENT UTILITY COMPANIES, AND SURVEYOR.
- PARTIAL TOPOGRAPHIC INFORMATION HAS BEEN DELINEATED ON THESE PLANS.
- NO CONSTRUCTION SHALL BE STARTED WITHOUT PLANS APPROVED BY MCWD AND IN COORDINATION WITH STATE PARKS. MCWD AND STATE PARKS SHALL BE NOTIFIED AT LEAST 5 WORKING DAYS PRIOR TO START OF CONSTRUCTION. ANY CONSTRUCTION DONE WITHOUT APPROVED PLANS OR PRIOR NOTIFICATION TO MCWD AND STATE PARKS WILL BE REJECTED AND WILL BE AT THE CONTRACTOR'S RISK.
- SOILS TESTS SHALL BE DONE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS. ALL TESTS MUST BE MADE WITHIN 15 DAYS PRIOR TO THE PLACEMENT OF MATERIAL. THE TEST RESULTS SHALL CLEARLY INDICATE THE LOCATION AND SOURCE OF THE MATERIAL.
- COMPACTION TESTS SHALL BE MADE ON SUB-GRADE MATERIAL AND MATERIAL IN ACCORDANCE WITH THESE DRAWINGS AND THE SPECIFICATIONS. SAID TESTS SHALL BE MADE PRIOR TO THE PLACEMENT OF THE NEXT MATERIAL.
- THE ENGINEER OF RECORD SHALL PERFORM PERIODIC REVIEWS OF COMPLETED WORK TO DETERMINE GENERAL CONFORMANCE WITH THE APPROVED PLANS. THE CONTRACTOR SHALL CORRECT ANY DIFFERENCES FOUND BY SUCH SURVEY AND WILL PROVIDE ALL CONTRACTOR'S RECORDS KEPT DURING THE COURSE OF CONSTRUCTION TO THE ENGINEER OF RECORD FOR PREPARATION OF RECORD DRAWINGS.
- THE MCWD INSPECTOR ACTING ON BEHALF OF MCWD MAY REQUIRE REVISIONS IN THE PLANS TO RESOLVE UNFORESEEN PROBLEMS THAT MAY ARISE IN THE FIELD. ALL REVISIONS SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER OF RECORD.
- THE ENGINEER OF RECORD MUST VERIFY THAT THE IMPROVEMENTS, WHEN COMPLETED, ARE IN CONFORMANCE WITH THE PLANS PRIOR TO THE REQUEST FOR FINAL INSPECTION. RECORD DRAWINGS ARE TO BE PREPARED FOLLOWING THE REQUIREMENTS DEFINED IN THE TECHNICAL SPECIFICATIONS. THE CIVIL ENGINEER PREPARING THE RECORD DRAWING PLANS WILL BE PRESENT WHEN THE FINAL INSPECTION IS MADE.
- ALL PERTINENT UTILITY COMPANIES SHALL BE NOTIFIED PRIOR TO THE START OF CONSTRUCTION.
- A CITY OF MARINA ENCROACHMENT PERMIT IS REQUIRED FOR ALL WORK DONE WITHIN ANY ROAD RIGHT-OF-WAY.

CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE HOURS OF 7:00AM TO 5:00PM MONDAY THROUGH FRIDAY UNLESS APPROVED BY MCWD, THE CITY, AND STATE PARKS.

ENGINEERS PRIVATE NOTICE TO CONTRACTOR

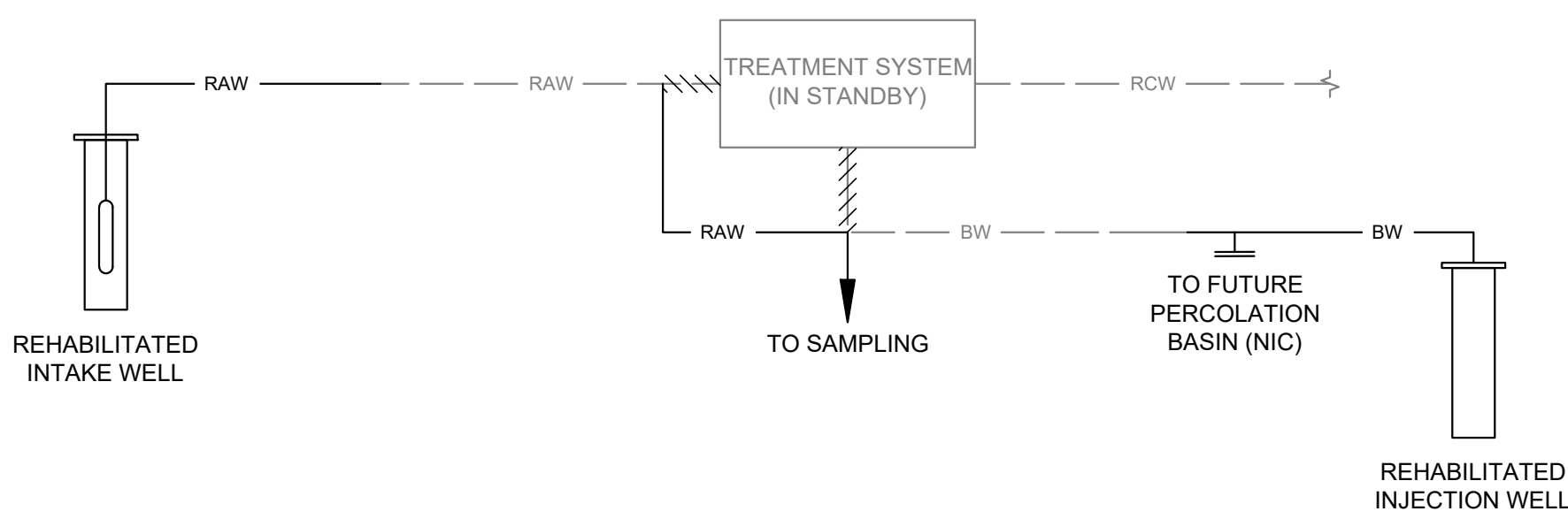
CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD WALLACE GROUP, AND IT'S EMPLOYEE'S, OFFICER'S, AND AGENT'S, HARMLESS AGAINST ANY AND ALL CLAIMS BY PARTIES ARISING FROM, OR RELATED TO, ANY AND ALL DAMAGES, INCLUDING LEGAL COSTS AND ATTORNEY FEES, RESULTING FROM INTERFERENCE WITH INTERRUPTION OF, DAMAGE TO, OR ANY AND ALL INJURIES WHICH RESULT FROM DAMAGE CAUSED TO SUBSURFACE INSTALLATION AS DEFINED IN GOVERNMENT CODE 4216.1(J), WHICH IS UNFORESEEN AND DESPITE ENGINEER'S EFFORT DURING THE DESIGN PROCESS WAS NOT LOCATED, EXCEPTING ONLY THE GROSS NEGLIGENCE OR WILLFUL MISCONDUCT OF ENGINEER IN PROVIDING ITS SERVICES.

PROCESS FLOW DIAGRAM SCHEMATIC



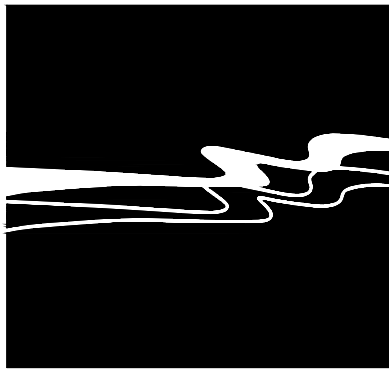
EXISTING CONDITIONS

NOTE: DIAGRAM IS SCHEMATIC IN NATURE



PROPOSED IMPROVEMENTS

NOTE: DIAGRAM IS SCHEMATIC IN NATURE AND DOES NOT INCLUDE BID ALTERNATIVES



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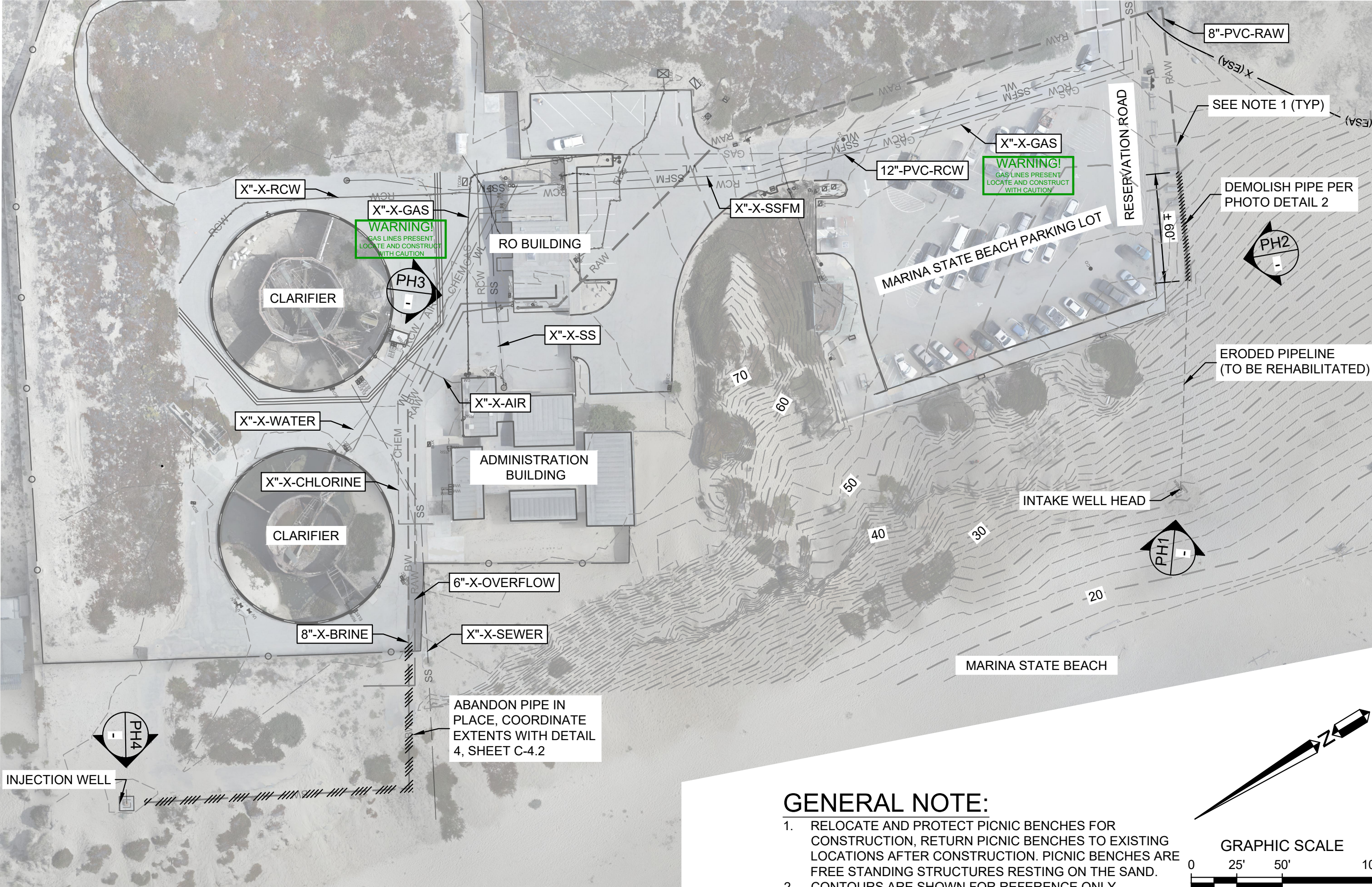
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MARINA COAST WATER DISTRICT
RESERVATION ROAD DESAL PLANT RENOVATION
ABBREVIATIONS, LEGEND, AND NOTES

JOB #: 1045-11
DESIGNERS: ZCM
DRAWN BY: LJF
DATE: 11/19/25
DRAWING NO.
G-2.0
2 OF 18 SHEETS

Rev.	Date	Description of Revisions	By





DEMOLITION SITE PLAN

GENERAL NOTE:

1. RELOCATE AND PROTECT PICNIC BENCHES FOR CONSTRUCTION, RETURN PICNIC BENCHES TO EXISTING LOCATIONS AFTER CONSTRUCTION. PICNIC BENCHES ARE FREE STANDING STRUCTURES RESTING ON THE SAND. CONTOURS ARE SHOWN FOR REFERENCE ONLY.
2. TOPOGRAPHY IS SENSITIVE TO WEATHER AND TIDES AND SUBJECT TO CHANGE, CONTRACTOR SHALL SURVEY AS NEEDED.

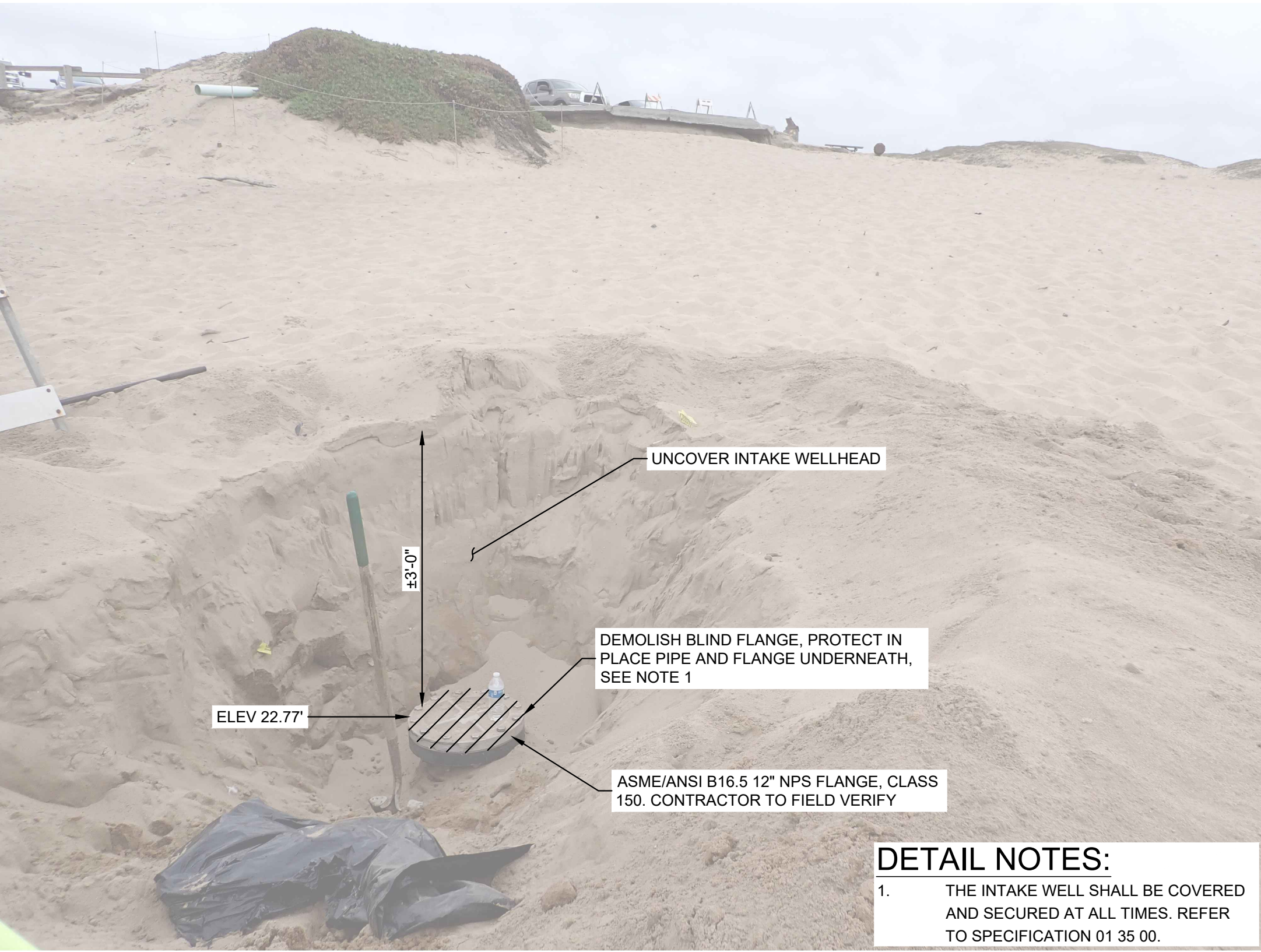
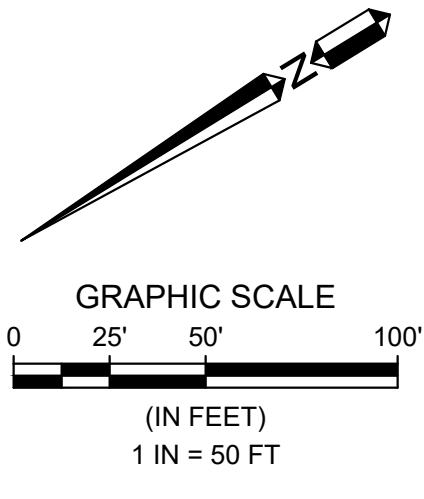


PHOTO DETAIL 1: INTAKE WELLHEAD

SCALE: NTS



PHOTO DETAIL 2: INTAKE PIPE

SCALE: NTS



PHOTO DETAIL 4: INJECTION WELL

SCALE: NTS

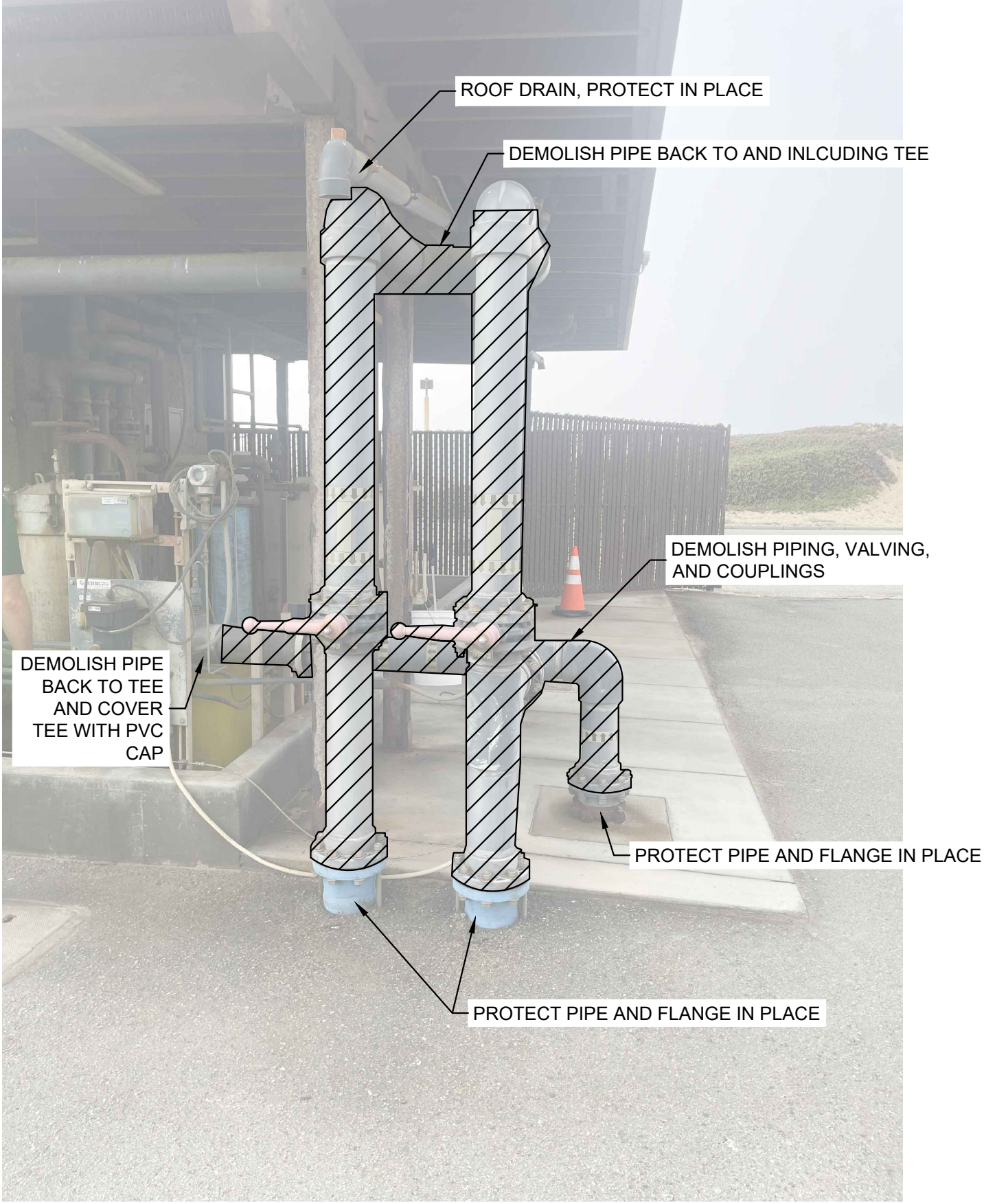


PHOTO DETAIL 3: RO PIPING

SCALE: NTS



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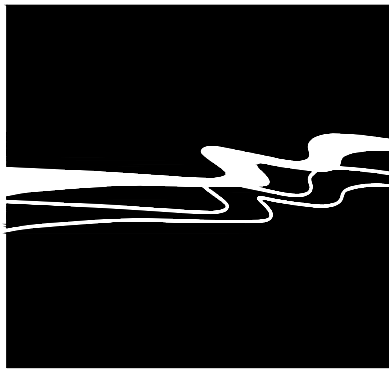
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MARINA COAST WATER DISTRICT
RESERVATION ROAD DESAL PLANT RENOVATION
DEMOLITION PLAN

JOB #: 1045-11
DESIGNERS: ZCM
DRAWN BY: LJP
DATE: 11/19/25
DRAWING NO.
C-1.0
3 OF 18 SHEETS



Rev.	Date	Description of Revisions	By



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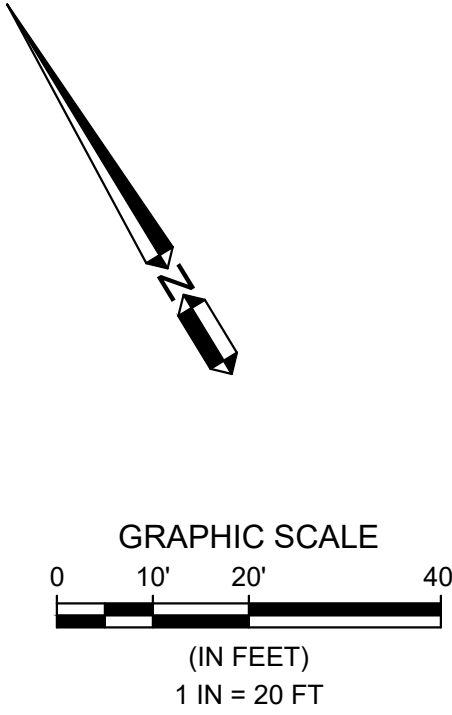
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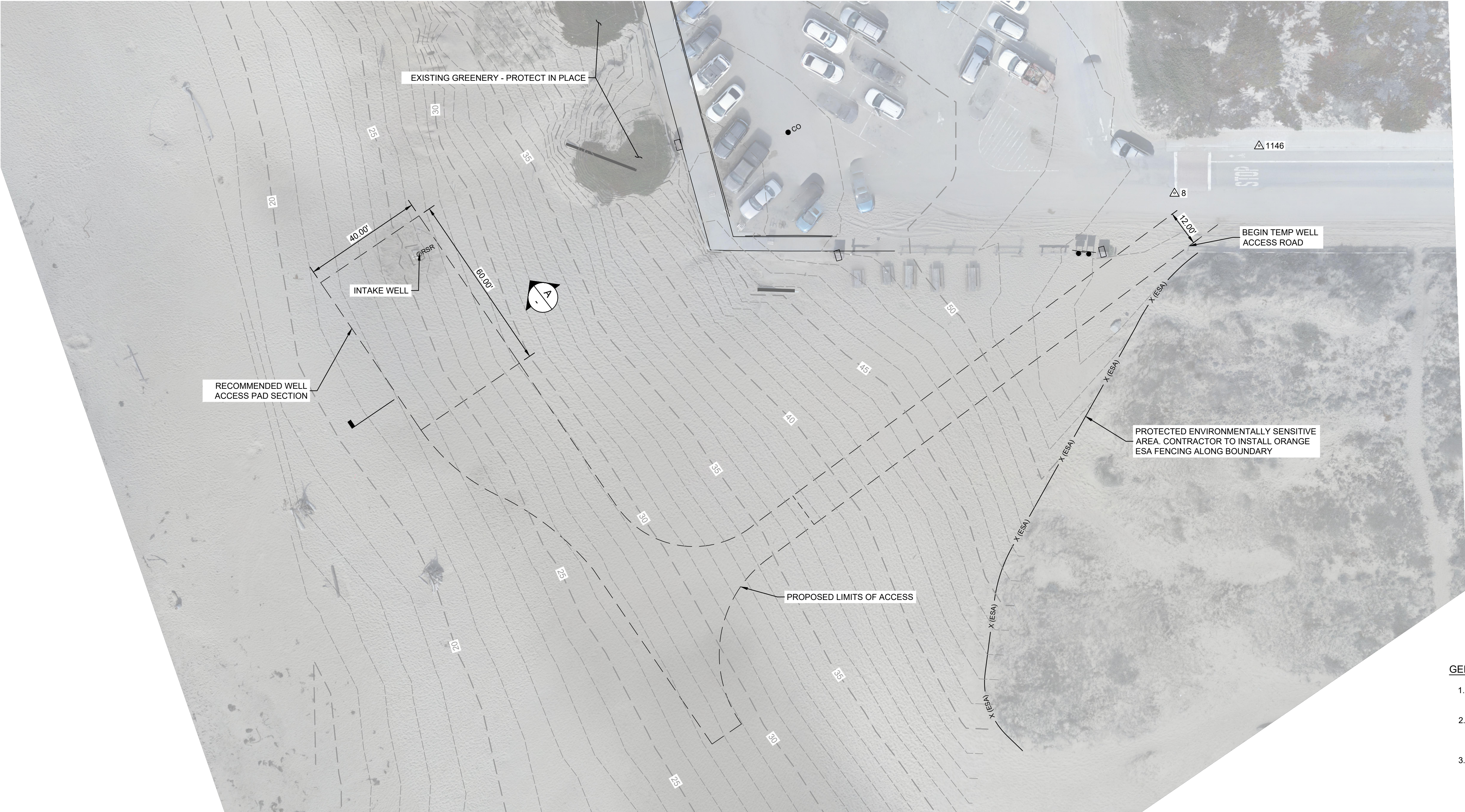
MARINA COAST WATER DISTRICT
RESERVATION ROAD DESAL PLANT RENOVATION
INTAKE WELL & ACCESS SITE PLAN

JOB #: 1045-11
DESIGNERS: ZCM
DRAWN BY: CPK
DATE: 11/19/25
DRAWING NO.
C-2.0
4 OF 18 SHEETS

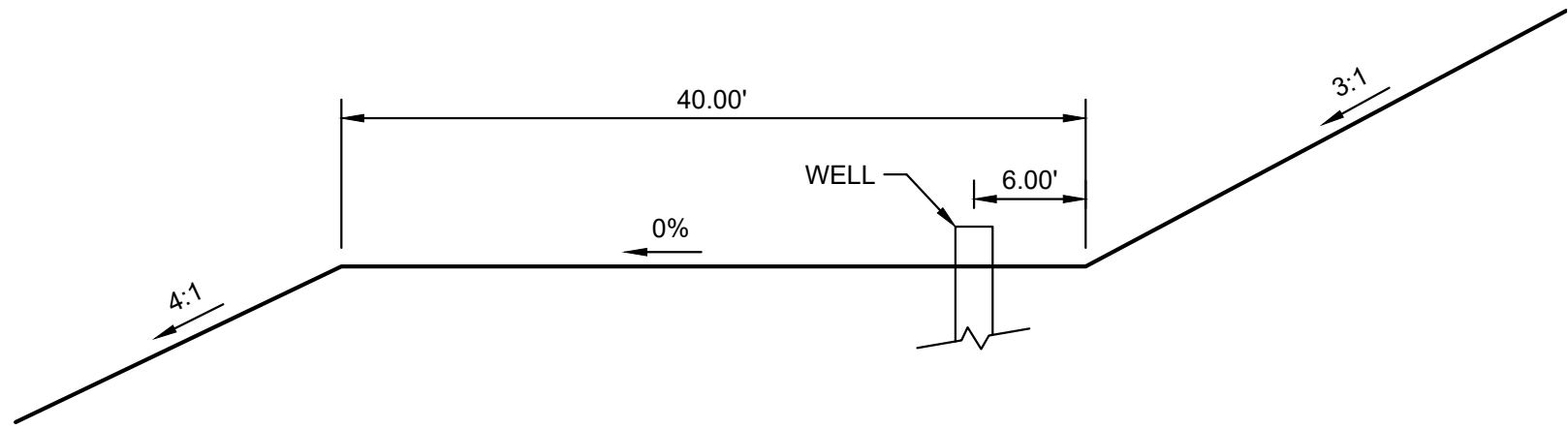


GENERAL NOTES:

- EXISTING SURFACE IS BASED ON TOPOGRAPHIC SURVEY PERFORMED BY WALLACE GROUP ON SEPTEMBER 29, 2025. CONTRACTOR TO VERIFY ALL ELEVATIONS IN THE FIELD.
- ACCESS ROAD ALIGNMENT MAY BE ALTERED TO ADDRESS FIELD CONDITIONS AND CONSTRAINTS. CONTRACTOR TO SUBMIT WELL ACCESS PLAN PER SPECIFICATION 31 00 01 IDENTIFYING FINAL ALIGNMENT OF ACCESS ROAD.
- CONTRACTOR TO PROVIDE STABILIZATION MEASURES TO ACCESS ROAD AND WELL PAD TO SUPPORT VEHICLE AND EQUIPMENT ACCESS TO EX. INTAKE WELL. CONTRACTOR TO IDENTIFY MEASURES, SUCH AS CRANE OR COMPOSITE MATTING SYSTEMS, IN THE WELL ACCESS PLAN PER SPECIFICATION 31 00 01.



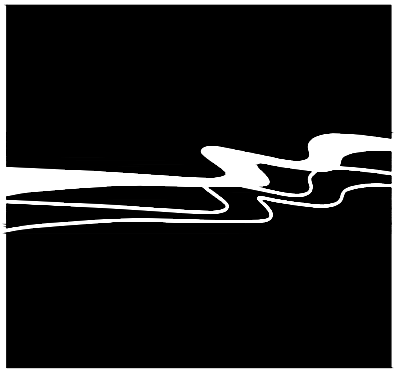
1 INTAKE WELL & TEMPORARY ACCESS PLAN - CONCEPTUAL
SCALE: 1" = 20'



A PAD CROSS SECTION
SCALE: NTS



Rev.	Date	Description of Revisions	By



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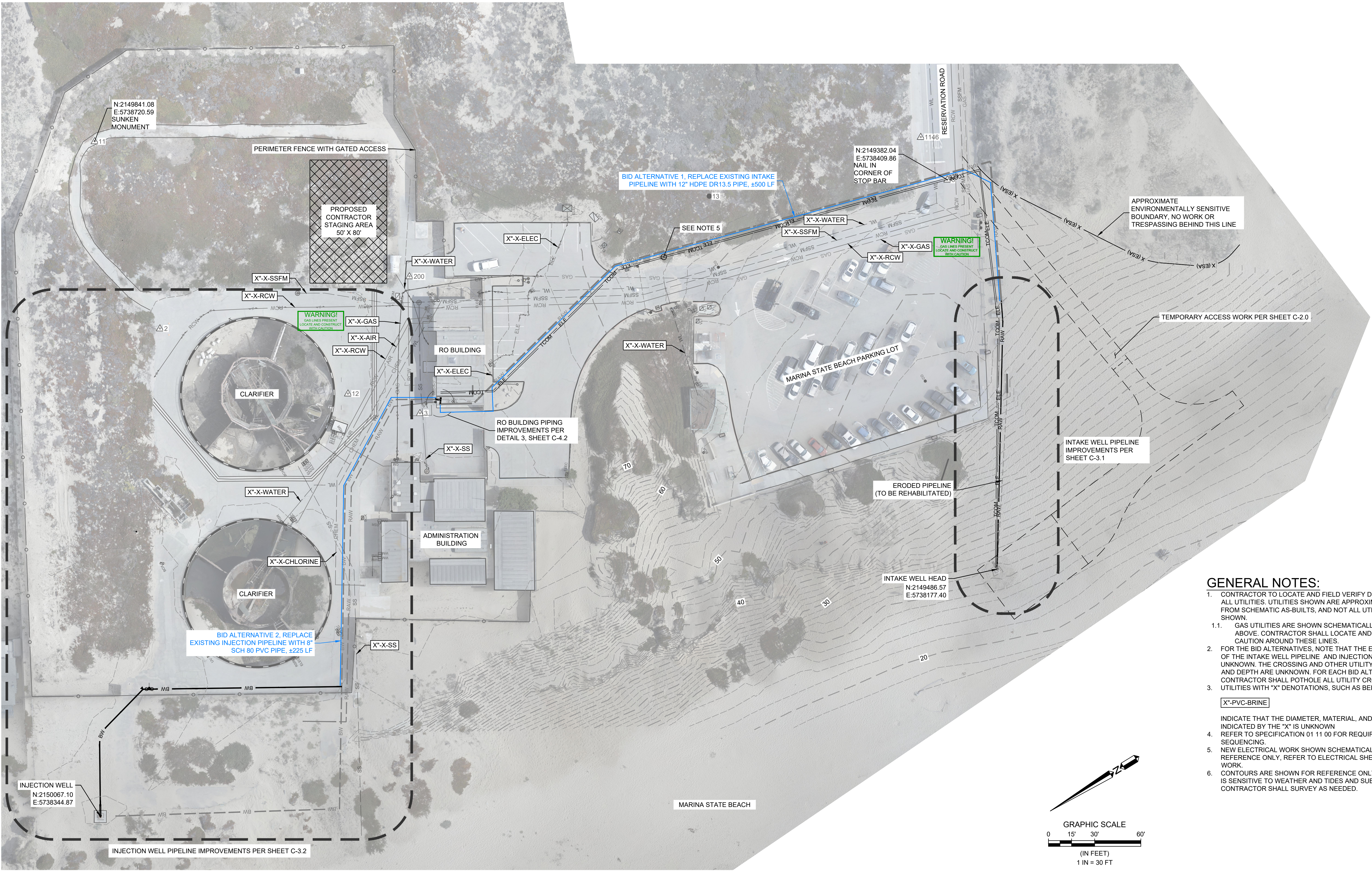
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MARINA COAST WATER DISTRICT
RESERVATION ROAD DESAL PLANT RENOVATION
SITE PLAN

JOB #: 1045-11
DESIGNERS: ZCM
DRAWN BY: LJP
DATE: 11/19/25
DRAWING NO.
C-3.0
5 OF 18 SHEETS

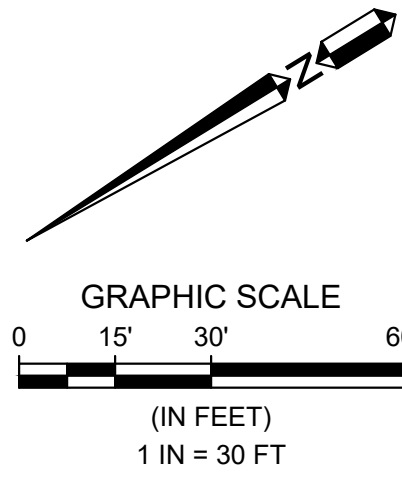


GENERAL NOTES:

- CONTRACTOR TO LOCATE AND FIELD VERIFY DEPTH AND SIZE OF ALL UTILITIES. UTILITIES SHOWN ARE APPROXIMATE IN LOCATION FROM SCHEMATIC AS-BUILTS, AND NOT ALL UTILITIES MAY BE SHOWN.
- 1.1. GAS UTILITIES ARE SHOWN SCHEMATICALLY AS INDICATED ABOVE. CONTRACTOR SHALL LOCATE AND CONSTRUCT WITH CAUTION AROUND THESE LINES.
- FOR THE BID ALTERNATIVES, NOTE THAT THE EXISTING DEPTH OF THE INTAKE WELL PIPELINE AND INJECTION WELL PIPELINE IS UNKNOWN. THE CROSSING AND OTHER UTILITY SIZES, LOCATION, AND DEPTH ARE UNKNOWN. FOR EACH BID ALTERNATIVE CONTRACTOR SHALL POTHOLE ALL UTILITY CROSSING.
- UTILITIES WITH "X" DENOTATIONS, SUCH AS BELOW:

X"-PVC-BRINE

INDICATE THAT THE DIAMETER, MATERIAL, AND/OR PROCESS, INDICATED BY THE "X" IS UNKNOWN
REFER TO SPECIFICATION 01 11 00 FOR REQUIREMENTS SUCH AS SEQUENCING.
NEW ELECTRICAL WORK SHOWN SCHEMATICALLY FOR REFERENCE ONLY, REFER TO ELECTRICAL SHEETS FOR NEW WORK.
CONTOURS ARE SHOWN FOR REFERENCE ONLY. TOPOGRAPHY IS SENSITIVE TO WEATHER AND TIDES AND SUBJECT TO CHANGE, CONTRACTOR SHALL SURVEY AS NEEDED.

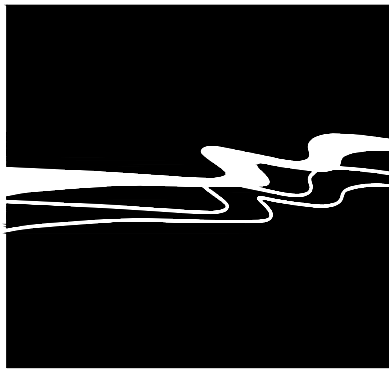


SCALE: 1" = 30'

SITE PLAN



Rev.	Date	Description of Revisions	By



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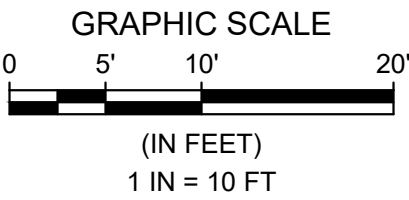
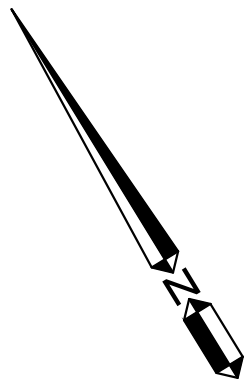
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MARINA COAST WATER DISTRICT
RESERVATION ROAD DESAL PLANT RENOVATION
INTAKE WELL PIPELINE

JOB #: 1045-11
DESIGNERS: ZCM
DRAWN BY: LJP
DATE: 11/19/25
DRAWING NO.
C-3.1
6 OF 18 SHEETS

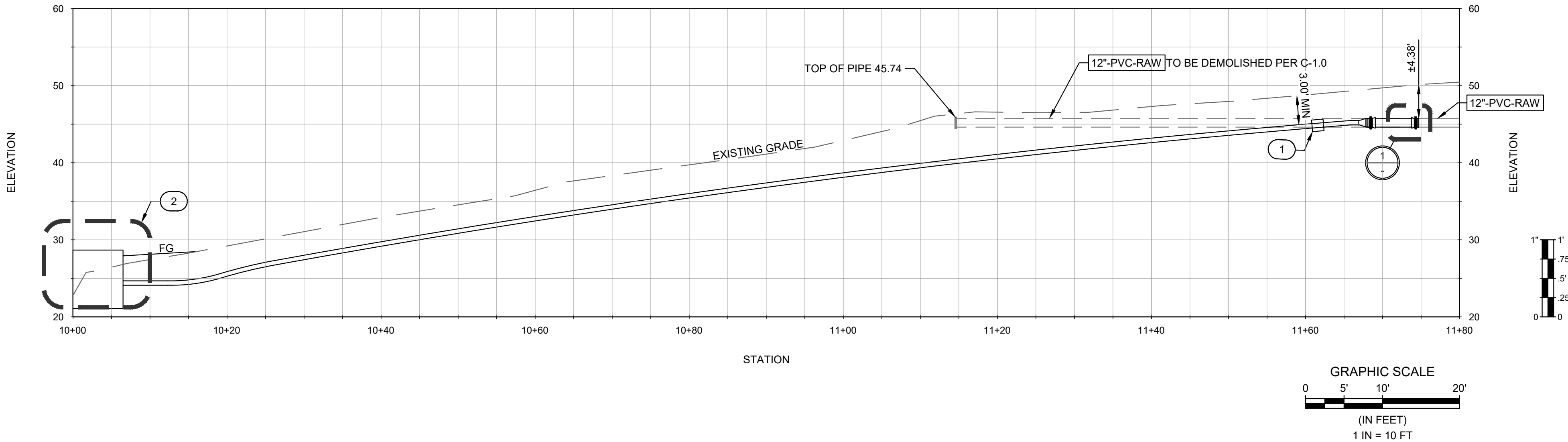
GENERAL NOTES:

- CONTRACTOR TO LOCATE AND FIELD VERIFY DEPTH AND SIZE OF ALL UTILITIES. UTILITIES SHOWN ARE APPROXIMATE IN LOCATION FROM SCHEMATIC AS-BUILTS, AND NOT ALL UTILITIES MAY BE SHOWN.
- DO NOT EXCEED THE MINIMUM BENDING RADIUS FOR PLASTIC PIPE, AS RECOMMENDED BY MANUFACTURER.
- INSTALL PIPE PER THE MCWD STANDARD DETAIL W-12 ON SHEET C-4.0.
- REFER TO SPECIFICATION 01 11 00 FOR REQUIREMENTS SUCH AS SEQUENCING.
- NEW ELECTRICAL WORK SHOWN SCHEMATICALLY FOR REFERENCE ONLY. REFER TO ELECTRICAL SHEETS FOR NEW WORK.
- CONTOURS ARE SHOWN FOR REFERENCE ONLY. TOPOGRAPHY IS SENSITIVE TO WEATHER AND TIDES AND SUBJECT TO CHANGE, CONTRACTOR SHALL SURVEY AS NEEDED.



SITE PLAN: INTAKE WELL PIPELINE

SCALE: 1" = 10'

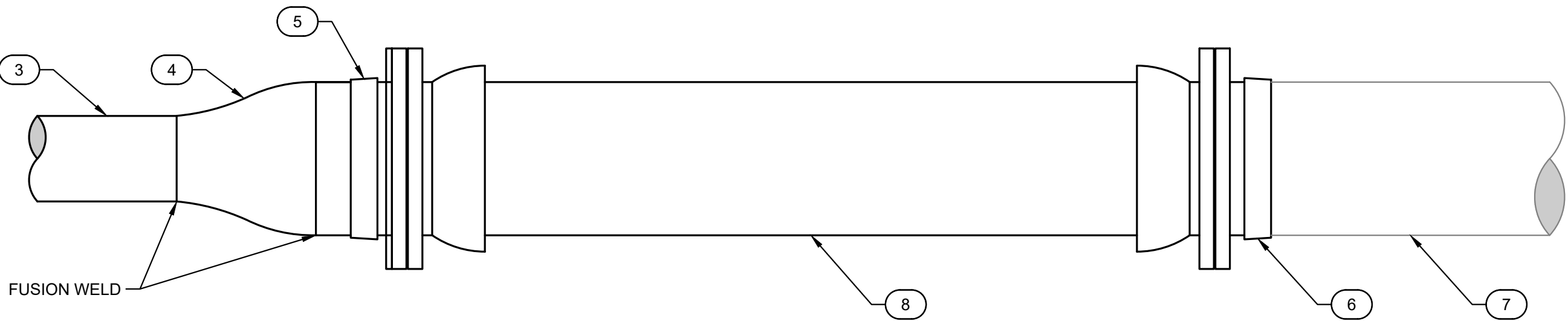


PROFILE: INTAKE WELL PIPELINE

SCALE: 1" = 10'

REFERENCE
KEYNOTES

XX	DESCRIPTION
1	CONCRETE COLLAR PER DETAIL 8, SHEET C-4.3
2	INTAKE WELL PER DETAIL 2 SHEET C-4.1
3	6" HDPE DR13.5 PIPE
4	6" X 12" HDPE DR13.5 REDUCER
5	12" HDPE DR13.5 FLANGE ADAPTER, WITH STAINLESS STEEL BACKING PLATE
6	12" RESTRAINED FLANGE ADAPTER
7	EXISTING 12" C900 PVC PIPE
8	DOUBLE BALL FLEXIBLE EXPANSION JOINT, FLG X FLG

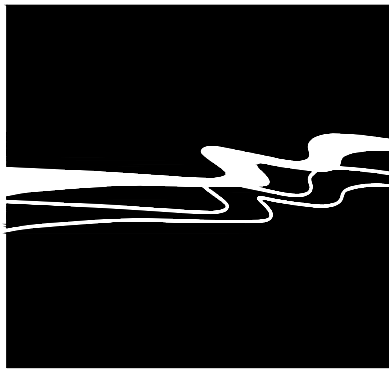


1 HDPE TO C900 PVC CONNECTION

SCALE: NTS



Rev.	Date	Description of Revisions	By



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MARINA COAST WATER DISTRICT
RESERVATION ROAD DESAL PLANT RENOVATION
INJECTION WELL PIPELINE

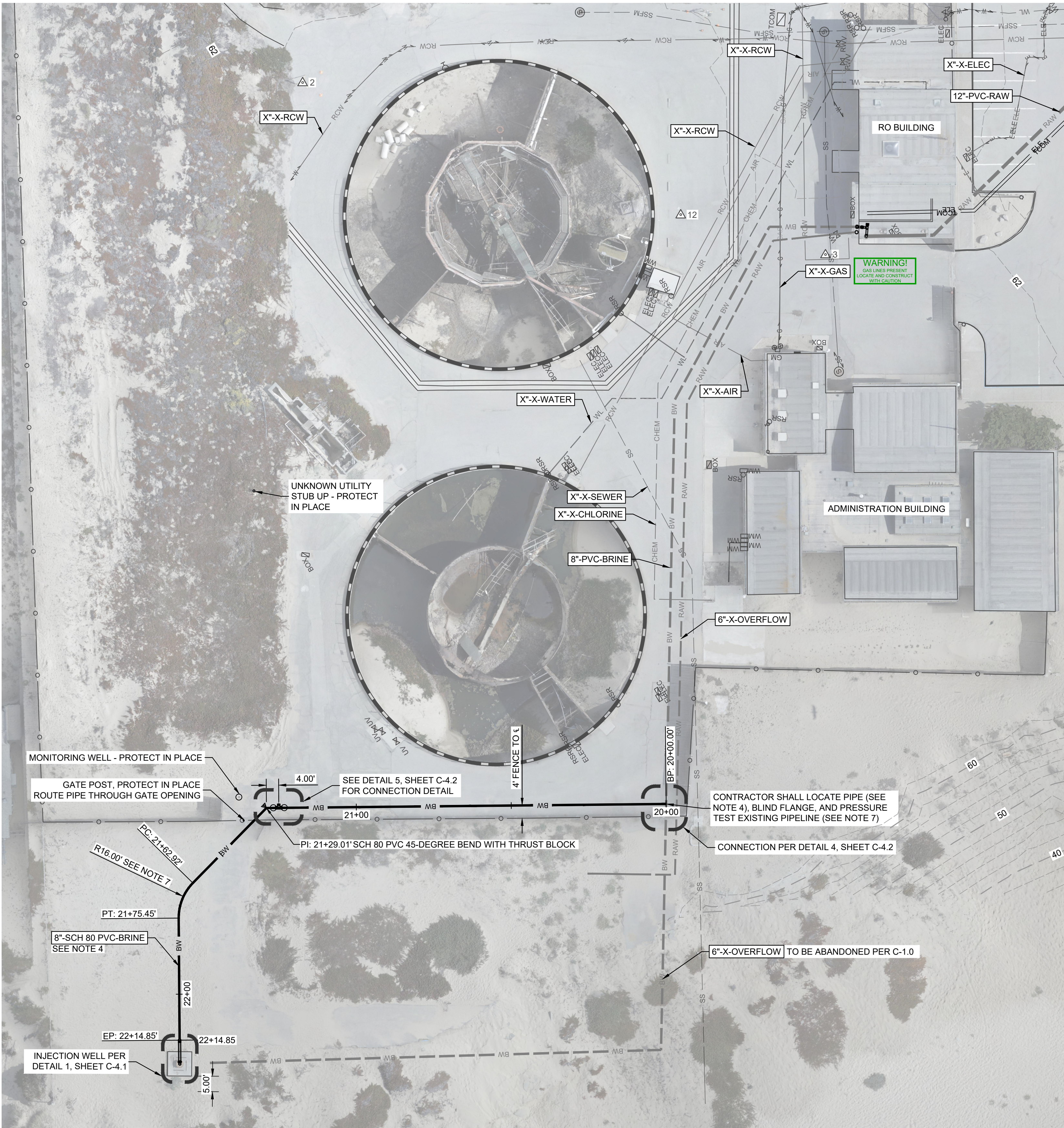
JOB #: 1045-11
DESIGNERS: ZCM
DRAWN BY: LJF
DATE: 11/19/25
DRAWING NO.
C-3.2
7 OF 18 SHEETS

GENERAL NOTES:

- CONTRACTOR TO LOCATE AND FIELD VERIFY DEPTH AND SIZE OF ALL UTILITIES. UTILITIES SHOWN ARE APPROXIMATE IN LOCATION FROM SCHEMATIC AS-BUILTS, AND NOT ALL UTILITIES MAY BE SHOWN.
- UTILITIES WITH "X" DENOTATIONS, SUCH AS BELOW:
X"-PVC-BRINE
INDICATE THAT THE DIAMETER, MATERIAL, AND/OR PROCESS, INDICATED BY THE "X" IS UNKNOWN.
- CONTRACTOR SHALL PROTECT IN PLACE ALL EXISTING UTILITIES UNLESS OTHERWISE NOTED.
- THE EXISTING PIPE IS ASSUMED TO HAVE 3'-0" MINIMUM COVER. CONTRACTOR SHALL INSTALL PIPE AT A MINIMUM 3'-0" COVER TO CROWN OF PIPE UNLESS OTHERWISE NOTED, OR WITH ENDORSEMENT FROM ENGINEER.
- INSTALL PIPE PER THE MCWD STANDARD DETAIL W-12 ON SHEET C-4.0.
- INSTALL THRUST BLOCKS PER THE MCWD STANDARD DETAIL W-13 ON SHEET C-4.0.
- BEND PIPE PER MANUFACTURER'S RECOMMENDATION, DO NOT EXCEED MINIMUM BENDING RADIUS.
- REFER TO SPECIFICATION 01 11 00 FOR REQUIREMENTS SUCH AS SEQUENCING.
- CONTOURS ARE SHOWN FOR REFERENCE ONLY. TOPOGRAPHY IS SENSITIVE TO WEATHER AND TIDES AND SUBJECT TO CHANGE. CONTRACTOR SHALL SURVEY AS NEEDED.

GRAPHIC SCALE
0 10' 20' 40'
(IN FEET)
1 IN = 20 FT

GRAPHIC SCALE
0 10' 20' 40'
(IN FEET)
1 IN = 20 FT

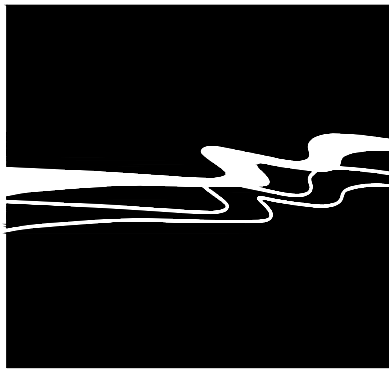


1 SITE PLAN: INJECTION WELL PIPELINE

SCALE: 1" = 20'



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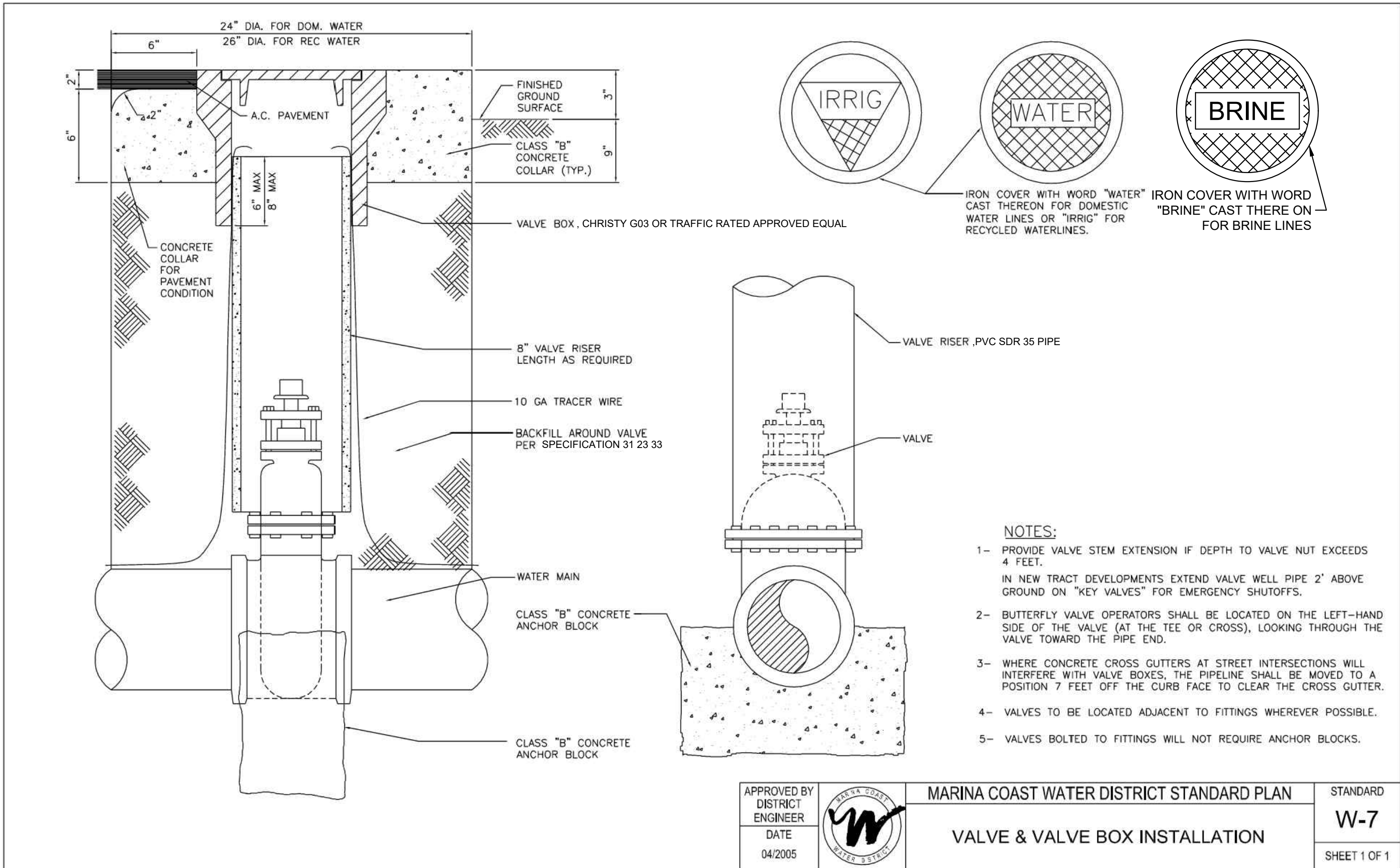


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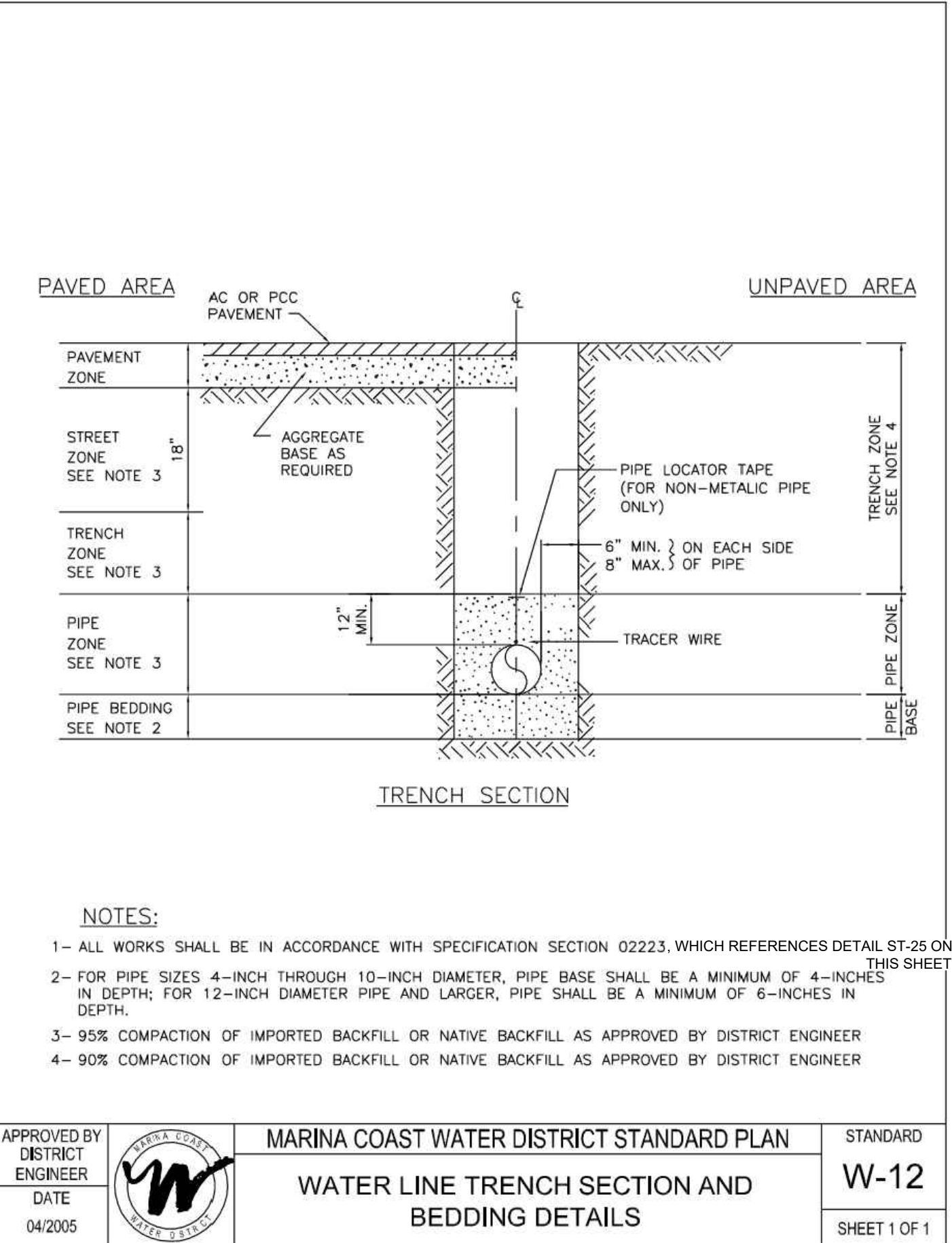
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VALVE & VALVE BOX INSTALLATION

W-7, MODIFIED

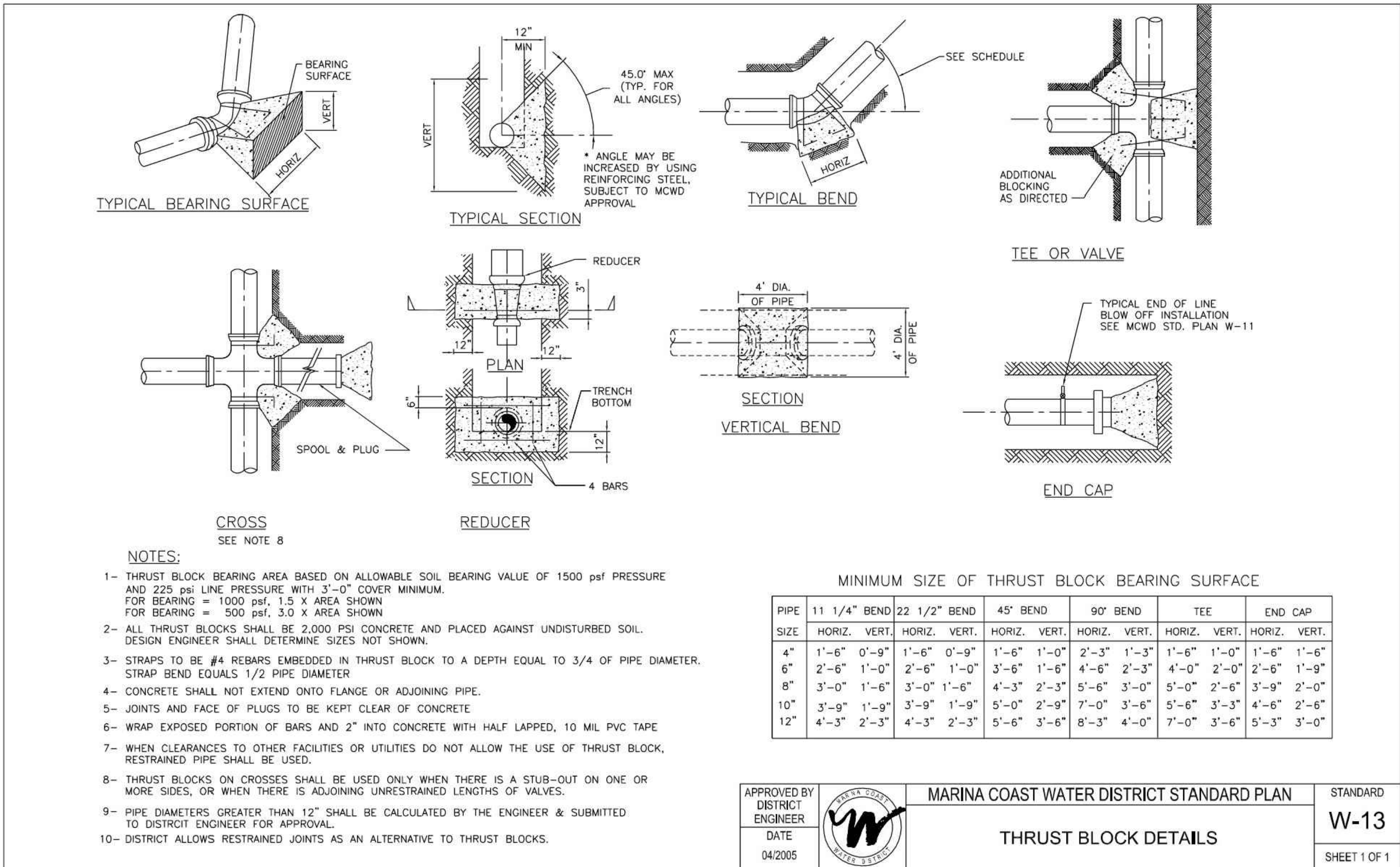
SCALE: NTS



WATER LINE TRENCH SECTION AND BEDDING DETAILS

W-12, MODIFIED

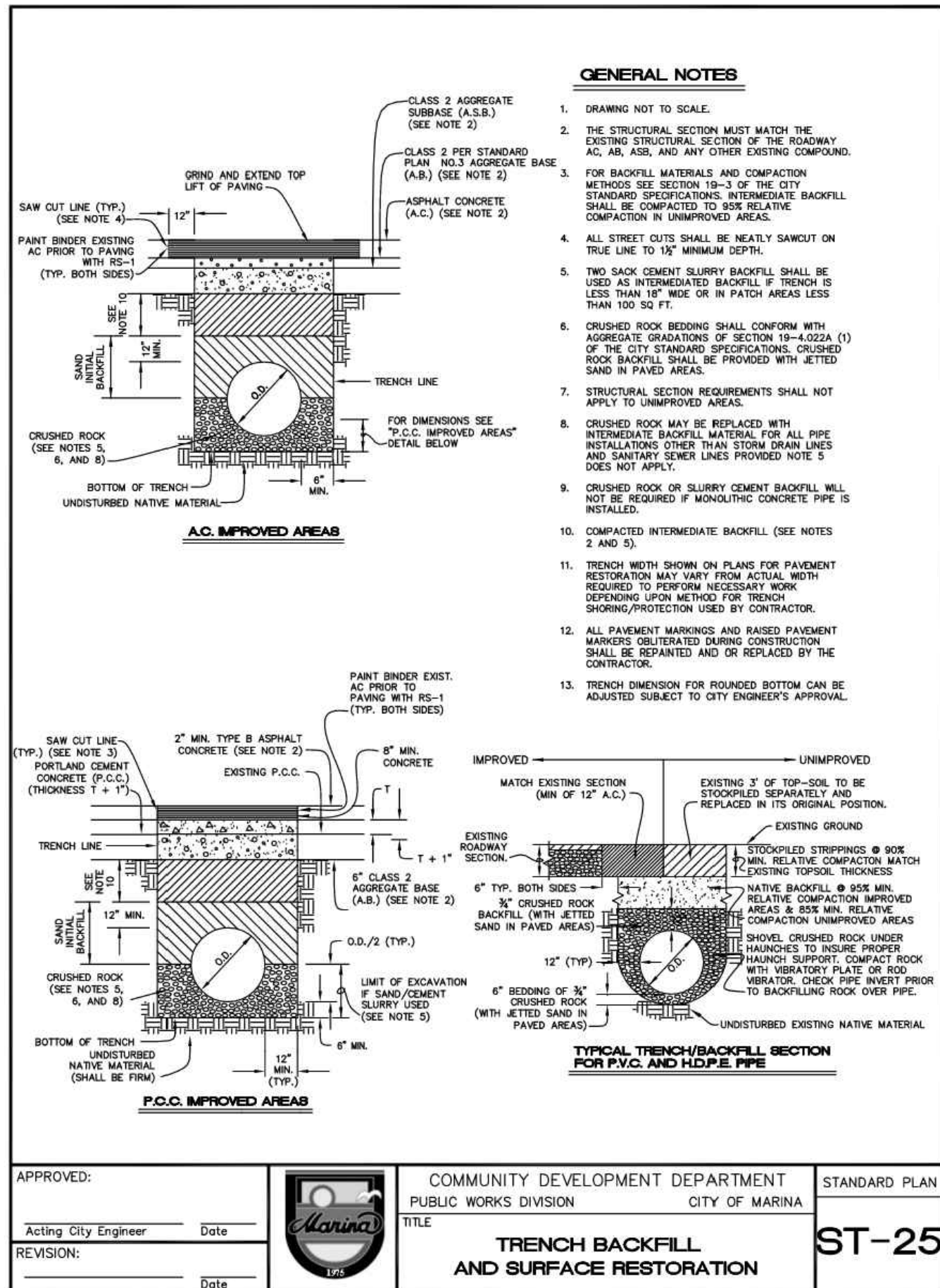
SCALE: NTS



THRUST BLOCK DETAILS

W-13

SCALE: NTS



TRENCH BACKFILL AND SURFACE RESTORATION

ST-25

SCALE: NTS

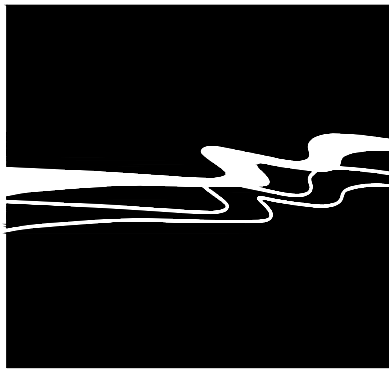


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Rev.	Date	Description of Revisions	By

MARINA COAST WATER DISTRICT RESERVATION ROAD DESAL PLANT RENOVATION TYPICAL DETAILS

JOB #: 1045-11
DESIGNERS: ZCM
DRAWN BY: LJF
DATE: 11/19/25
DRAWING NO.
C-4.0
8 OF 18 SHEETS



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MARINA COAST WATER DISTRICT
RESERVATION ROAD DESAL PLANT RENOVATION
CIVIL DETAILS, SHEET 1 OF 3

JOB #: 1045-11
DESIGNERS: ZCM
DRAWN BY: LJF
DATE: 11/19/25

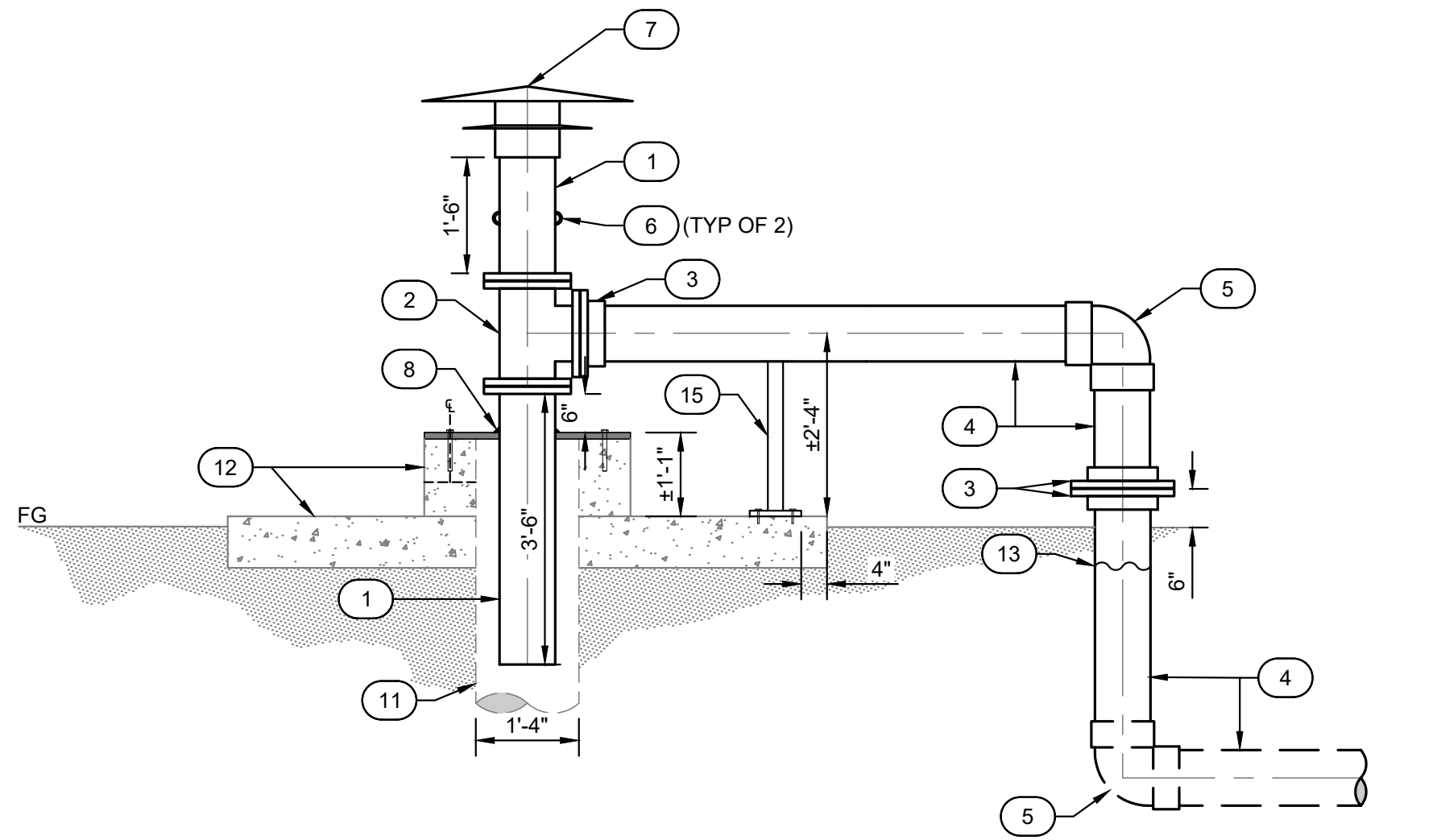
DRAWING NO.
C-4.1
9 OF 18 SHEETS

REFERENCE KEYNOTES

XX	DESCRIPTION
1	8" SCH 80 SST 316 PIPE, FLG X PE
2	8" SCH 80 SST 316 TEE, FLG X FLG X FLG
3	8" SCH 80 PVC FLANGE ADAPTER
4	8" SCH 80 PVC PIPE
5	8" SCH 80 PVC 45-DEGREE ELBOW
6	316 STAINLESS STEEL LIFTING EYES, WELDED TO PIPE
7	316 STAINLESS STEEL CHIMNEY STYLE VENT CAP, WITH SCREEN. ATTACH PER MANUFACTURER'S RECOMMENDATION
8	1/4" FILLET WELD, ALL AROUND
9	FOUR 1/2" SST 316 ADHESIVE CONCRETE ANCHORS, MINIMUM 6" EMBEDMENT, EQUALLY SPACED AROUND PIPE
10	1/2" SST 316 COVER PLATE
11	EXISTING WELL CASING
12	EXISTING CONCRETE
13	COAT PVC PIPE A MINIMUM OF 6" BENEATH GROUND SURFACE
14	COORDINATE TEMPORARY HATCH COVER, AS SHOWN IN SHEET C-4.3, DETAIL 7, AND REQUIREMENTS OF SPECIFICATION 01 35 00 WITH THE CONSTRUCTION AND BOLT HOLES OF THE STAINLESS STEEL COVER PLATE
15	316 SST ADJUSTABLE SADDLE PIPE SUPPORT

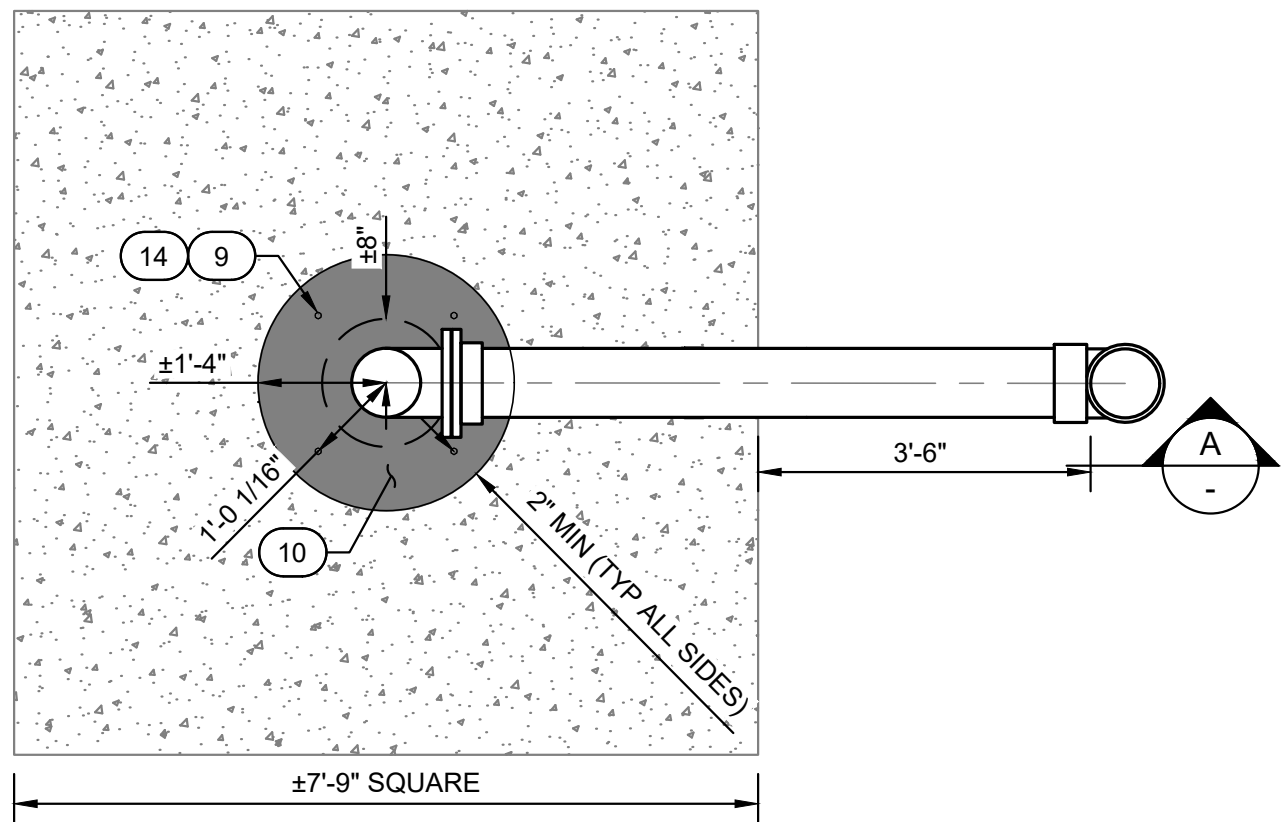
REFERENCE KEYNOTES

XX	DESCRIPTION
20	EXISTING 12" FRP WELL CASING
21	EXISTING CONCRETE SEAL
22	EXISTING 2" GRAVEL FEED TUBE
23	1" SCH 80 PVC "CANDY CANE" STYLE VENT
24	1" SCH 80 PVC PIPE DRAIN PIPE
25	1" 316 SST TEE, THREADED
26	1" 316 SST BALL VALVE, THREADED
27	1" 316 SST NIPPLE, MNPT X MNPT
28	6" SCH 80 PVC PIPE
29	6" 316 SST PIPE, FLG X FLG
30	6" 316 SST 90-DEGREE BEND, FLG X FLG
31	6" PVC FLANGE ADAPTER
32	6" PVC VAN STONE FLANGE ADAPTER
33	6" HDPE WELD ON FLANGE WITH 316 SST BACKING PLATE
34	6" X 1" PVC SADDLE TAP
35	6" PVC SWING CHECK VALVE, FLG X FLG
36	6" PVC GATE VALVE, FLG X FLG
37	6" PROCO UG234L RUBBER EXPANSION JOINT OR APPROVED EQUAL
38	6" DR13.5 HDPE PIPE
39	VAL-MATIC RESILITE COMBINATION AIR VALVE, OR APPROVED EQUAL
40	SUBMERSIBLE VERTICAL TURBINE PUMP & MOTOR, OFCI
41	316 SST ADJUSTABLE SADDLE PIPE SUPPORT
42	KOR-N-SEAL PIPE BOOT, OR APPROVED EQUAL
43	NON-SHRINK GROUT
44	SPLIT PIPE SLEEVE
45	MIN 1/2" THICK LAYER OF SYNTHETIC RUBBER CAULKING
46	HATCH PER SHEET C-4.3, DETAIL 6
47	FURNISH AND INSTALL 316 SST WELLHEAD FLANGE ATTACHED TO EXISTING CASING FLANGE WITH FLANGED TOP AND THREADED BOTTOM FOR PIPING CONNECTIONS, PER MANUFACTURER'S RECOMMENDATION
48	POLYMER CONCRETE MANHOLE, INCLUDING BASE AND LID
49	ELECTRICAL INFRASTRUCTURE SHOWN SCHEMATICALLY FOR REFERENCE ONLY, REFER TO SHEET E-3.0
50	316 SST LIFTING EYES - PER MANUFACTURER'S RECOMMENDATION
51	6" 316 SST PIPE, THREADED
52	SCARIFY AND RE-COMPACT EXISTING SOIL TO A FLAT, LEVEL SURFACE AT 95% RELATIVE COMPACTION, AND PER POLYMER CONCRETE VAULT MANUFACTURER'S RECOMMENDATIONS
53	316 SST JUNCTION BOX



A SECTION VIEW

SCALE: 6" = 1'-0"



INJECTION WELL SITE PLAN

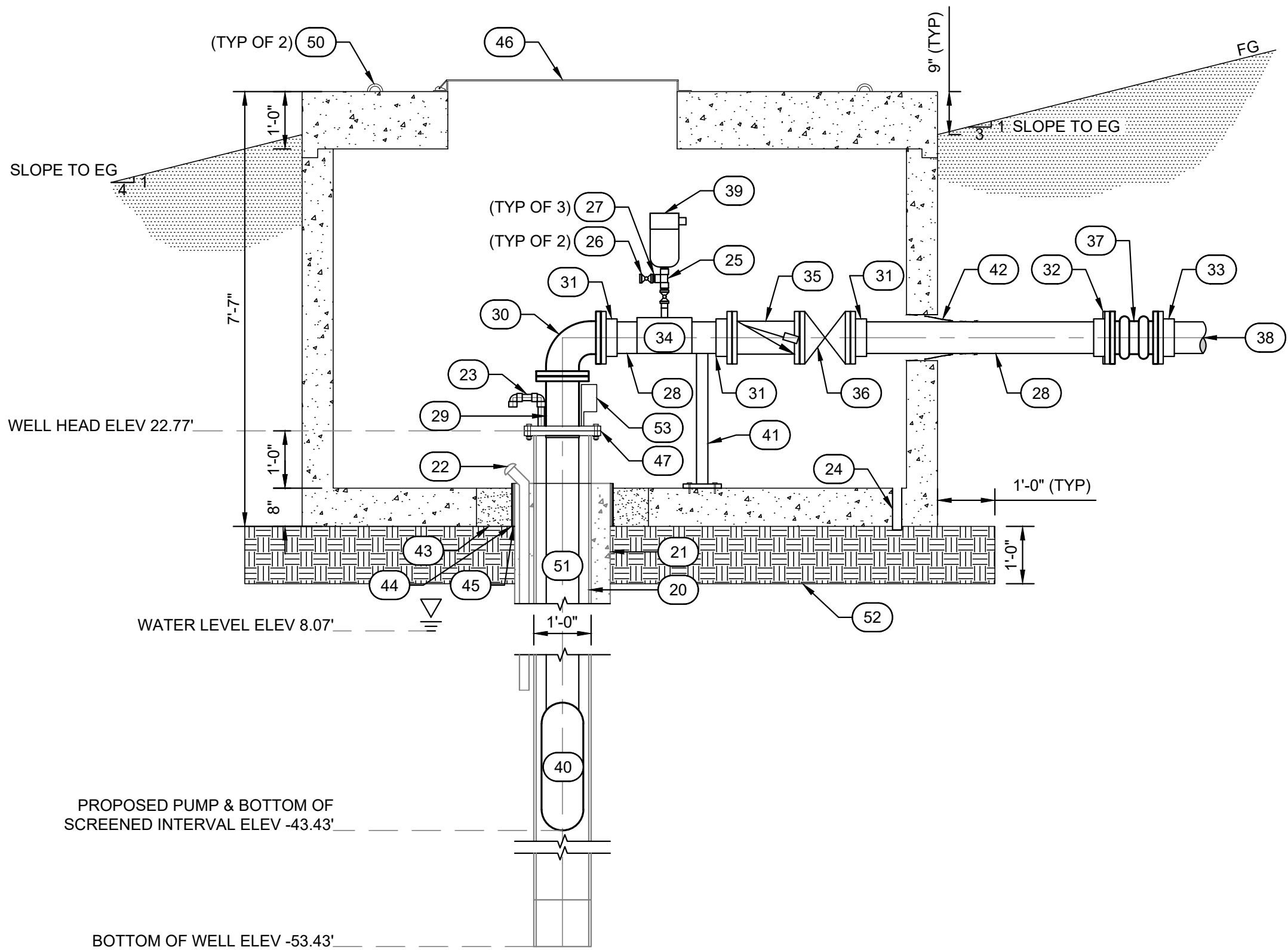
SCALE: 6" = 1'-0"

DETAIL NOTES:

- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
- ALL METAL HARDWARE AND APPURTENANCES SHALL BE STAINLESS STEEL UNLESS OTHERWISE NOTED.
- ALL ABOVEGROUND PVC PIPE, FITTINGS, AND APPURTENANCES SHALL BE COATED PER SPECIFICATION 09 90 00.

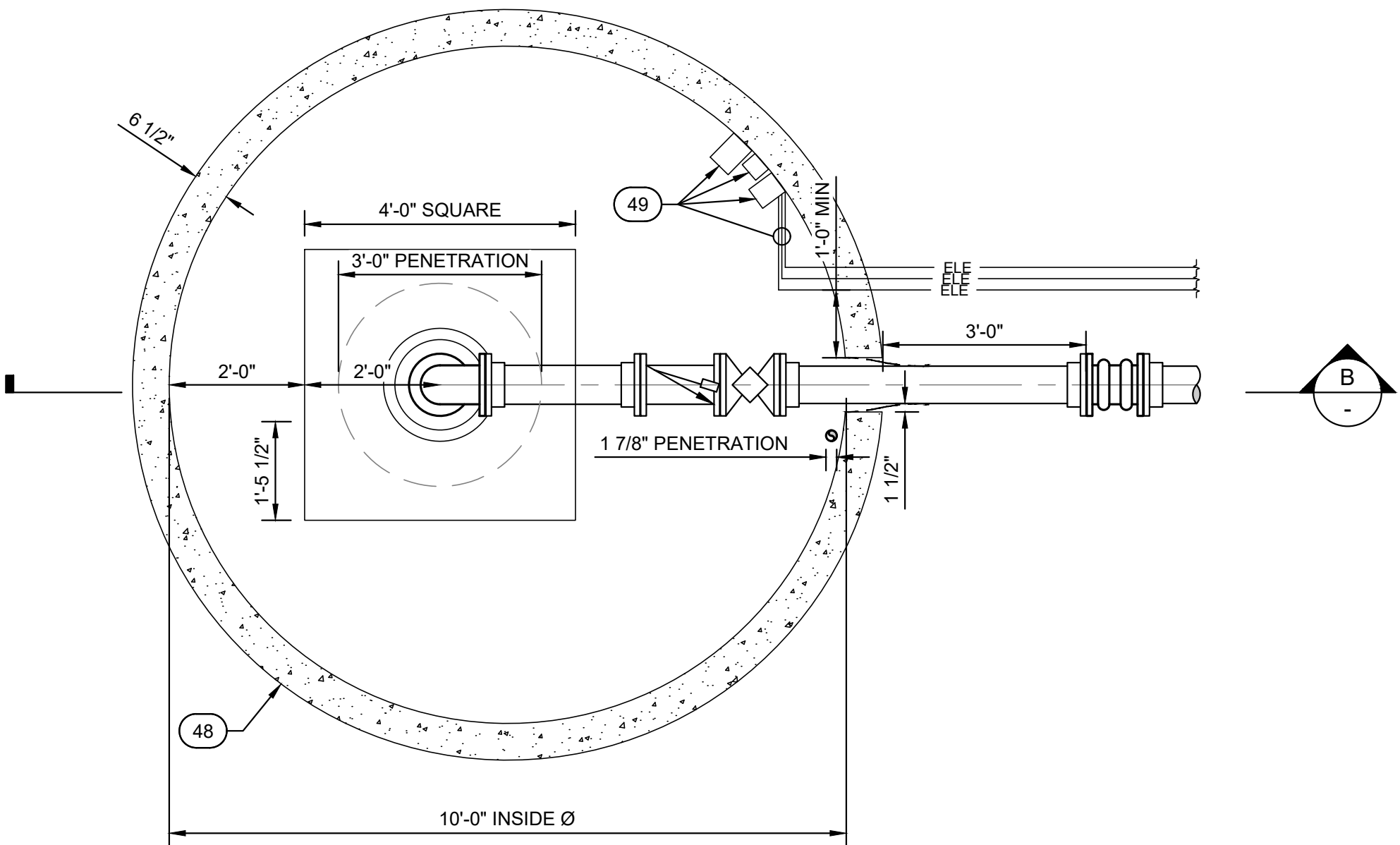
1 INJECTION WELL ASSEMBLY REHABILITATION

SCALE: 6" = 1'-0"



B SECTION VIEW

SCALE: 6" = 1'-0"



INTAKE WELL SITE PLAN

SCALE: 6" = 1'-0"

DETAIL NOTES:

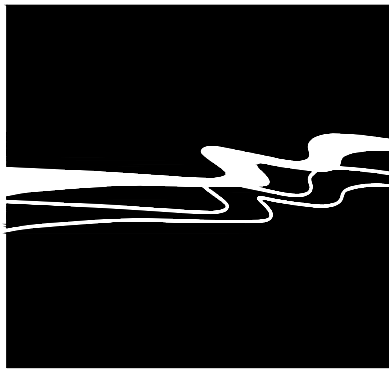
- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS
- ALL METAL HARDWARE AND APPURTENANCES SHALL BE STAINLESS STEEL UNLESS OTHERWISE NOTED
- REHABILITATE AND FLUSH WELL PRIOR TO WELL HEAD AND PUMP CONSTRUCTION AND INSTALLATION PER SPECIFICATION 01 11 00.
- WELL ELEVATIONS FROM THE EKI ENVIRONMENT & WATER. REVIEW OF AVAILABLE VIDEO LOGS AND OTHER DATA ON FORMER DESALINATION PLANT WELLS (EKI B6009.23), DATED 1/13/2024. WELL ELEVATIONS ARE SHOWN SCHEMATICALLY FOR REFERENCE ONLY, AND MAY NOT BE TO SCALE.

2 INTAKE WELL ASSEMBLY REHABILITATION

SCALE: 6" = 1'-0"



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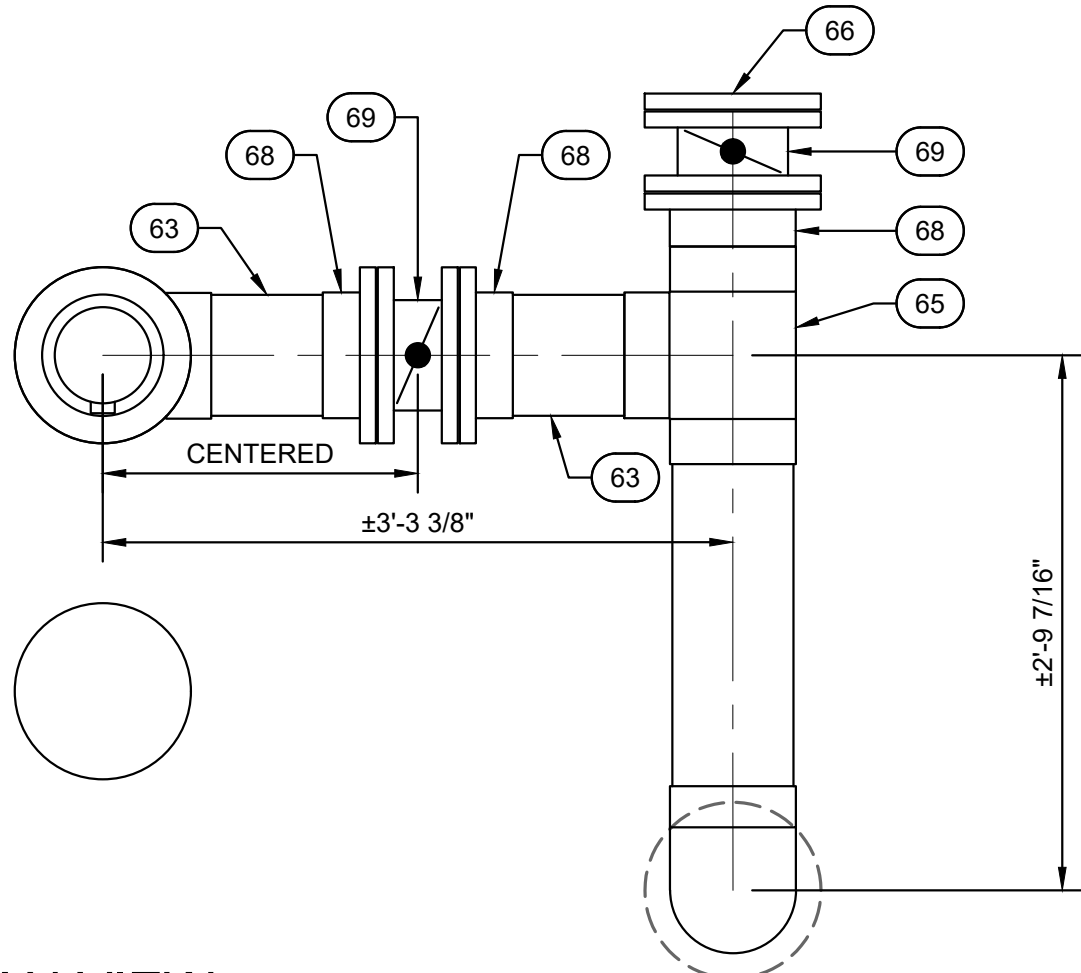
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MARINA COAST WATER DISTRICT
RESERVATION ROAD DESAL PLANT RENOVATION
CIVIL DETAILS, SHEET 2 OF 3

JOB #: 1045-11
DESIGNERS: ZCM
DRAWN BY: LJF
DATE: 11/19/25
DRAWING NO.

C-4.2
10 OF 18 SHEETS



PLAN VIEW

SCALE: 1" = 1'

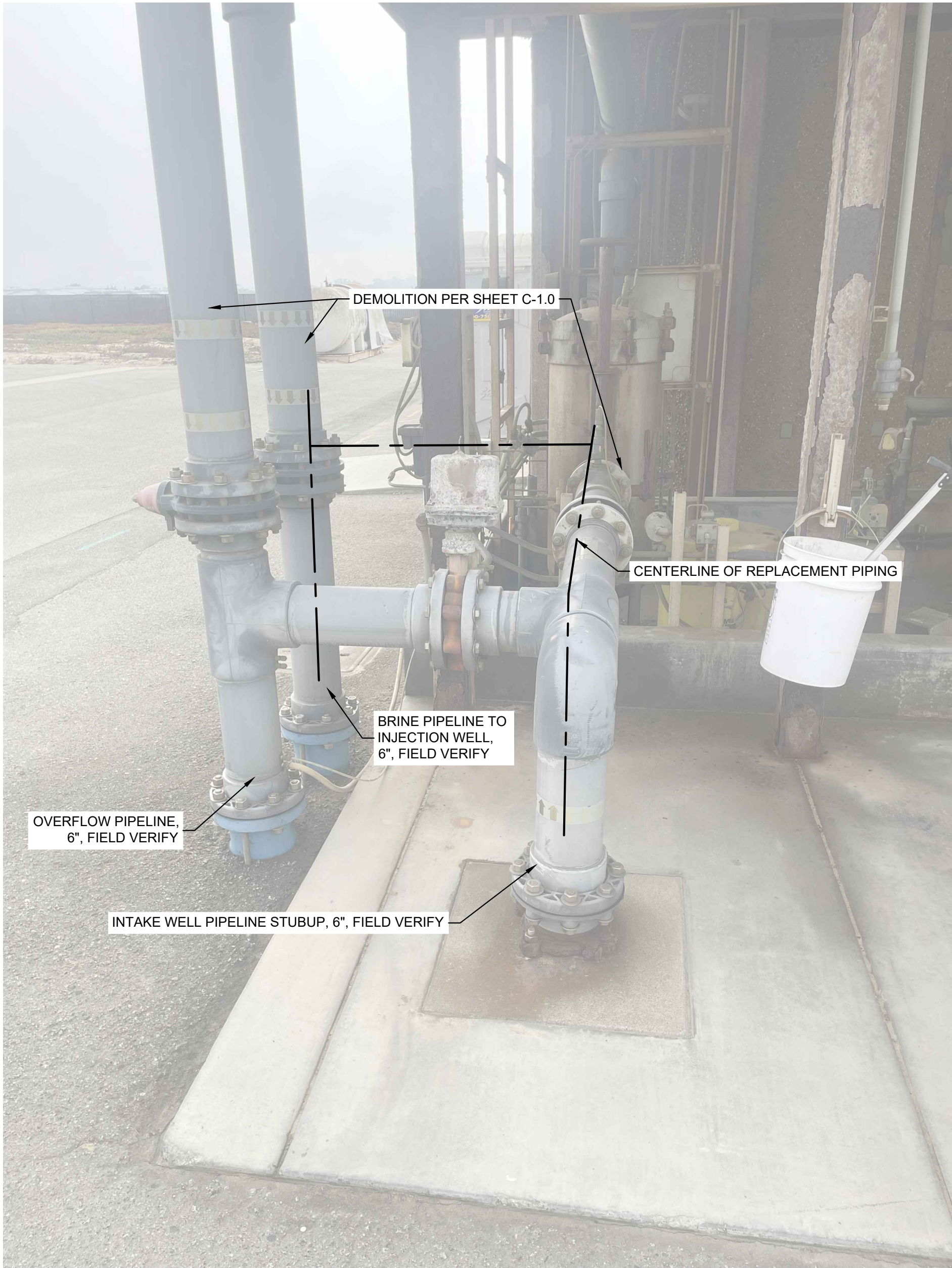
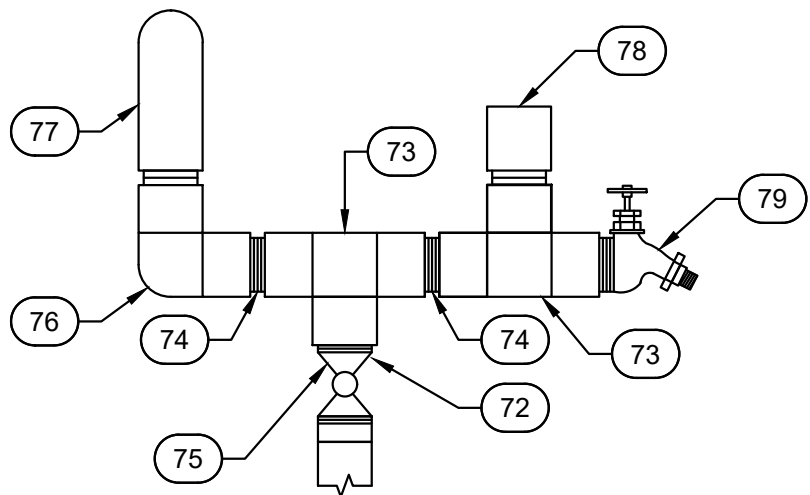


PHOTO DETAIL: CENTERLINE SCHEMATIC
ONLY PROPOSED PIPE CENTERLINES SHOWN FOR CLARITY

SCALE: NTS

A SECTION VIEW

SCALE: 1" = 1'



B INSTRUMENTATION

SCALE: NTS

REFERENCE KEYNOTES

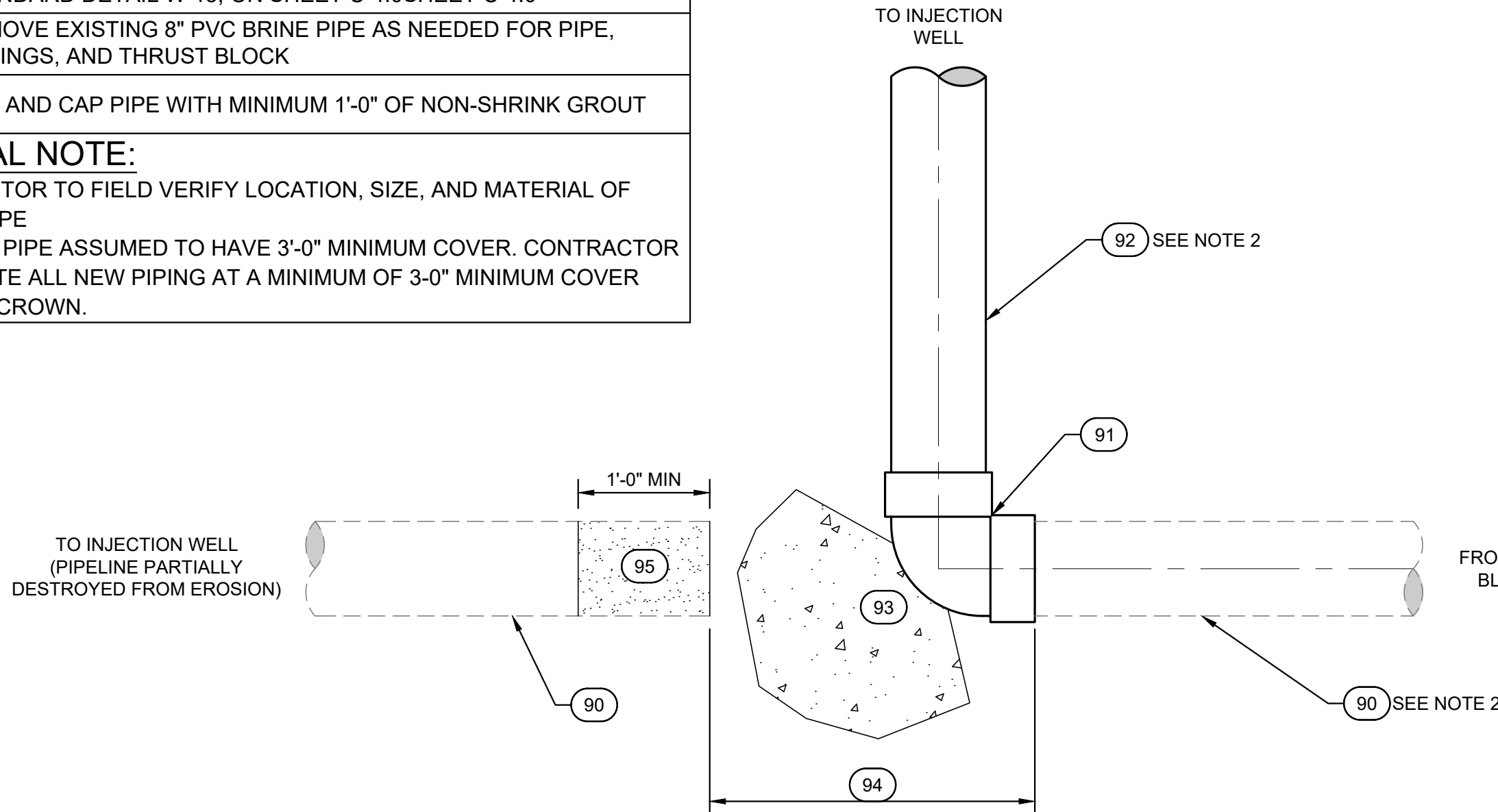
XX	DESCRIPTION
60	OVERFLOW PIPELINE STUBUP
61	INTAKE WELL PIPELINE STUBUP
62	BRINE PIPELINE STUBUP
63	6" SCH 80 PVC PIPE, PE X PE
64	6" SCH 80 PVC SOCKET 90-DEGREE BEND
65	6" SCH 80 PVC SOCKET TEE
66	6" PVC BLIND FLANGE
67	6" PVC COMPANION FLANGE, WITH 1" FNPT CONNECTION
68	6" PVC FLANGE ADAPTER
69	6" BUTTERFLY VALVE
70	6" FLOWMETER, FLG X FLG
71	6" X 1/2" PVC SADDLE TAP WITH REINFORCED PORT
72	1/2" SOCKET TO THREADED PVC ADAPTER
73	1/2" 316 SST TEE, THREADED
74	1/2" 316 SST NIPPLE, MALE X MALE
75	1/2" 316 SST BALL VALVE, THREADED
76	1/2" 316 SST 90-DEGREE BEND, THREADED
77	PRESSURE TRANSDUCER, ADD REDUCING FITTINGS AS NEEDED
78	PRESSURE SWITCH, ADD REDUCING FITTINGS AS NEEDED
79	1/2" STAINLESS STEEL HOSE BIBB WITH VACUUM BREAKER
80	GROUND FLOWMETER PER MANUFACTURER'S RECOMMENDATION
81	1" SST BALL VALVE, THREADED WITH SST NIPPLES AS NEEDED
82	VAL-MATIC RESILITE COMBINATION AIR VALVE, OR APPROVED EQUAL

REFERENCE KEYNOTES

XX	DESCRIPTION
90	EXISTING 8" PVC BRINE PIPE
91	8" SCH 80 PVC SOCKET 90-DEGREE BEND
92	8" SCH80 PVC PIPE C-3.2
93	CONCRETE THRUST BLOCK, THRUST BLOCK PER MCWD STANDARD DETAIL W-13, ON SHEET C-4.0SHEET C-4.0
94	REMOVE EXISTING 8" PVC BRINE PIPE AS NEEDED FOR PIPE, FITTINGS, AND THRUST BLOCK
95	CUT AND CAP PIPE WITH MINIMUM 1'-0" OF NON-SHRINK GROUT

GENERAL NOTE:

1. CONTRACTOR TO FIELD VERIFY LOCATION, SIZE, AND MATERIAL OF EXISTING PIPE
2. EXISTING PIPE ASSUMED TO HAVE 3'-0" MINIMUM COVER. CONTRACTOR SHALL ROUTE ALL NEW PIPING AT A MINIMUM OF 3'-0" MINIMUM COVER FROM PIPE CROWN.



4 BRINE PIPELINE CONNECTION DETAIL

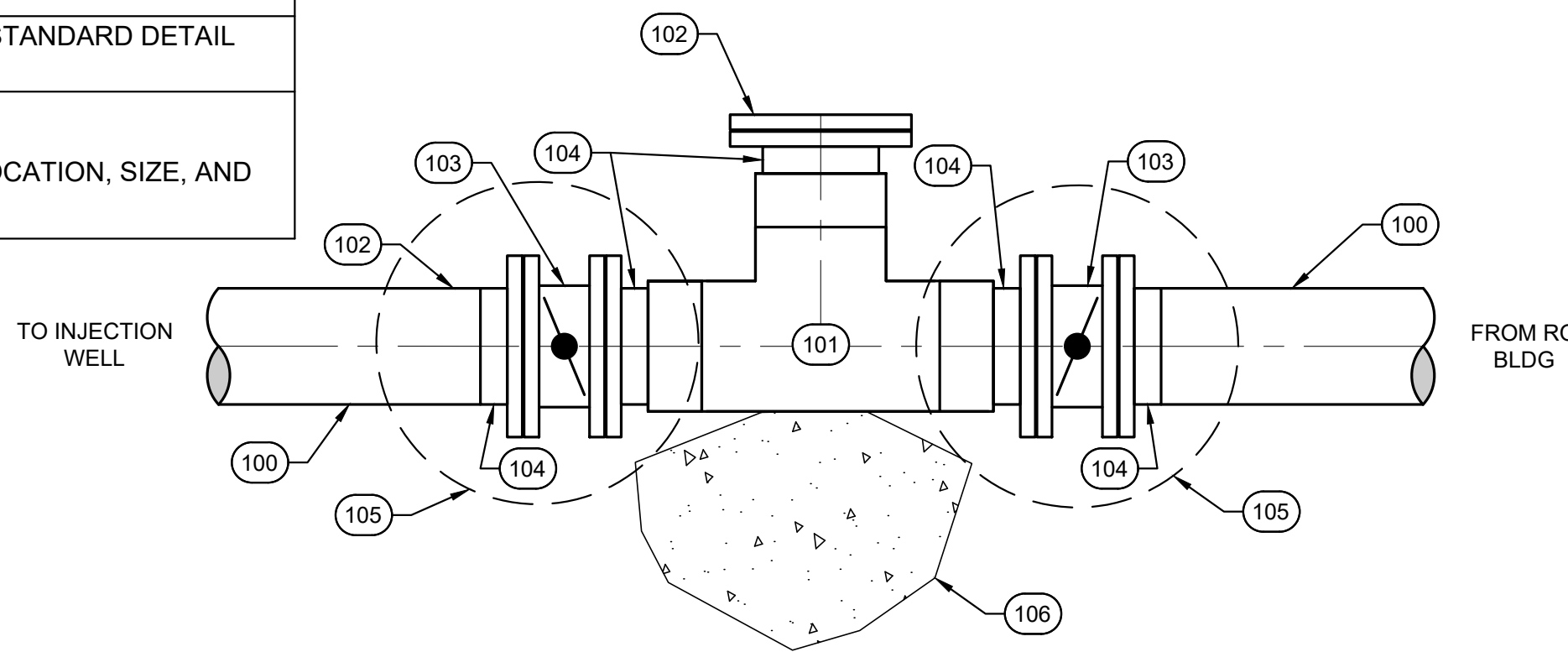
SCALE: 1" = 1'

REFERENCE KEYNOTES

XX	DESCRIPTION
100	8" SCH 80 PVC PIPE
101	8" SCH 80 PVC SOCKET TEE
102	8" PVC BLIND FLANGE
103	8" SST BUTTERFLY VALVE, FLG X FLG
104	8" SCH 80 PVC FLANGE ADAPTER
105	VALVE & VALVE CAN PER MCWD STANDARD DETAIL W-7, ON SHEET C-4.0
106	THRUST BLOCK PER MCWD STANDARD DETAIL W-13, ON SHEET C-4.0

GENERAL NOTE:

- CONTRACTOR TO FIELD VERIFY LOCATION, SIZE, AND MATERIAL OF EXISTING PIPE



5 INJECTION WELL - FUTURE PERCOLATION BED TEE

SCALE: 1" = 1'

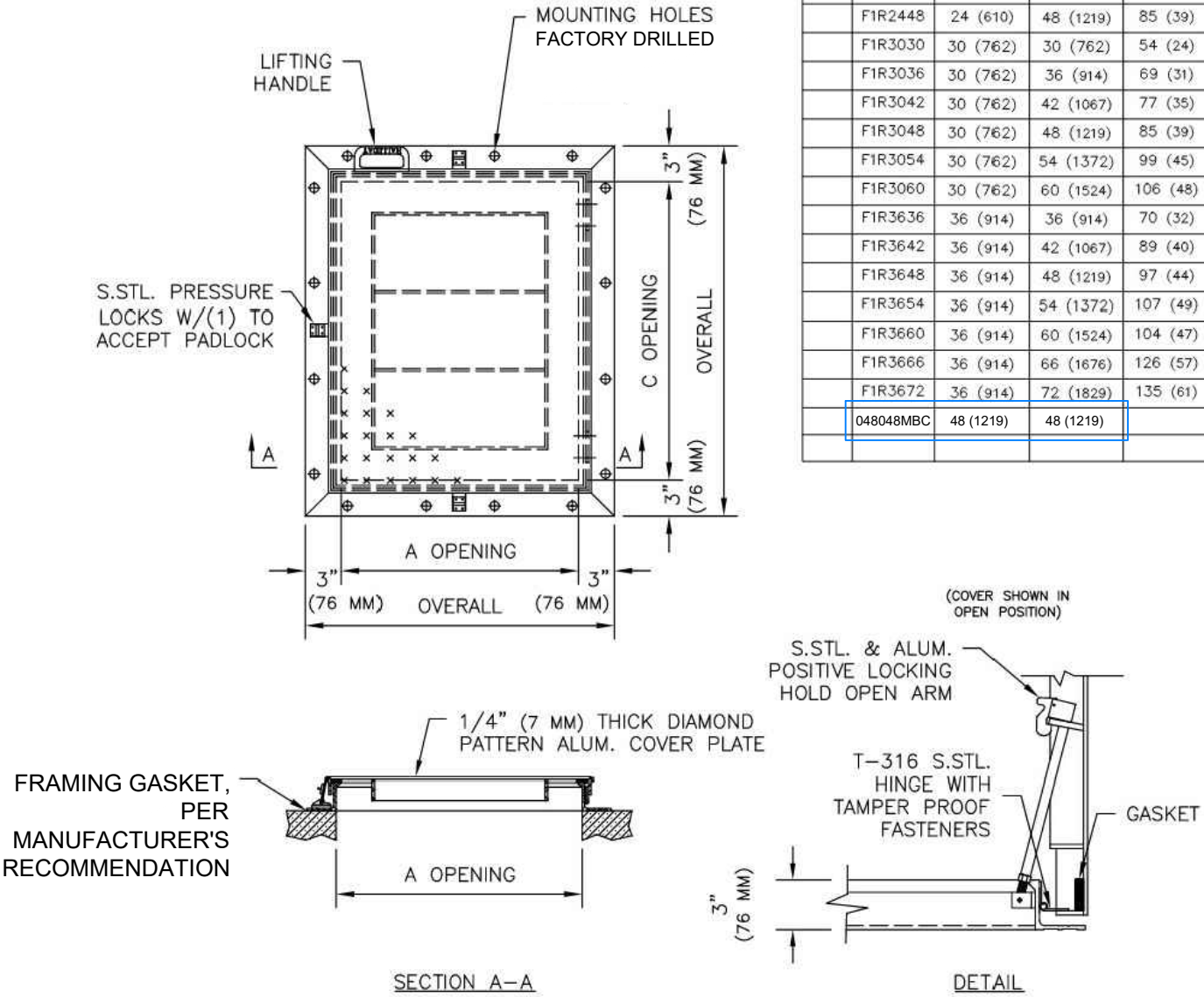


Rev.	Date	Description of Revisions	By

SERIES F1R ACCESS DOOR

STANDARD FEATURES:

- AUTO-LOCK T-316 STAINLESS STEEL HOLD OPEN ARM WITH RELEASE HANDLE
- TYPE-316 STAINLESS STEEL HINGES AND ATTACHING HARDWARE
- STAINLESS STEEL PRESSURE LOCKS
- 1/4" (7 MM) NEOPRENE GASKET
- PADLOCK LUG
- SINGLE LEAF CONSTRUCTION
- 625 LBS. PER SQ. FT. LOAD RATING (28 KG. PER SQ. METER LOAD RATING)
- EXTRUDED ALUMINUM FRAME
- LIFETIME GUARANTEE



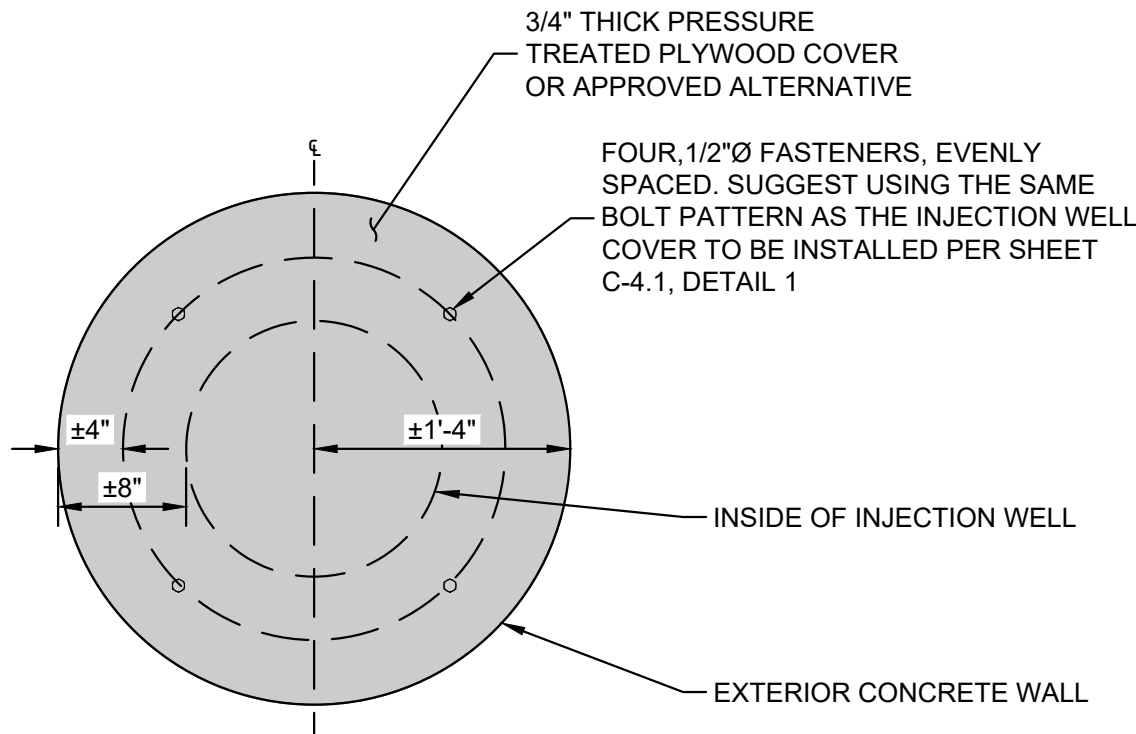
SECTION A-A

DETAIL

STANDARD SIZES				
QTY.	MODEL NO.	A DIM. INCHES (MM)	C DIM. INCHES (MM)	UNIT WT. LBS. (KG.)
	F1R2424	24 (610)	24 (610)	46 (21)
	F1R2430	24 (610)	30 (762)	51 (23)
	F1R2436	24 (610)	36 (914)	61 (28)
	F1R2442	24 (610)	42 (1067)	77 (35)
	F1R2448	24 (610)	48 (1219)	85 (39)
	F1R3030	30 (762)	30 (762)	54 (24)
	F1R3036	30 (762)	36 (914)	69 (31)
	F1R3042	30 (762)	42 (1067)	77 (35)
	F1R3048	30 (762)	48 (1219)	85 (39)
	F1R3054	30 (762)	54 (1372)	99 (45)
	F1R3060	30 (762)	60 (1524)	106 (48)
	F1R3636	36 (914)	36 (914)	70 (32)
	F1R3642	36 (914)	42 (1067)	89 (40)
	F1R3648	36 (914)	48 (1219)	97 (44)
	F1R3654	36 (914)	54 (1372)	107 (49)
	F1R3660	36 (914)	60 (1524)	104 (47)
	F1R3666	36 (914)	66 (1676)	128 (57)
	F1R3672	36 (914)	72 (1829)	135 (61)
	DA0040MRC	48 (1219)	48 (1219)	

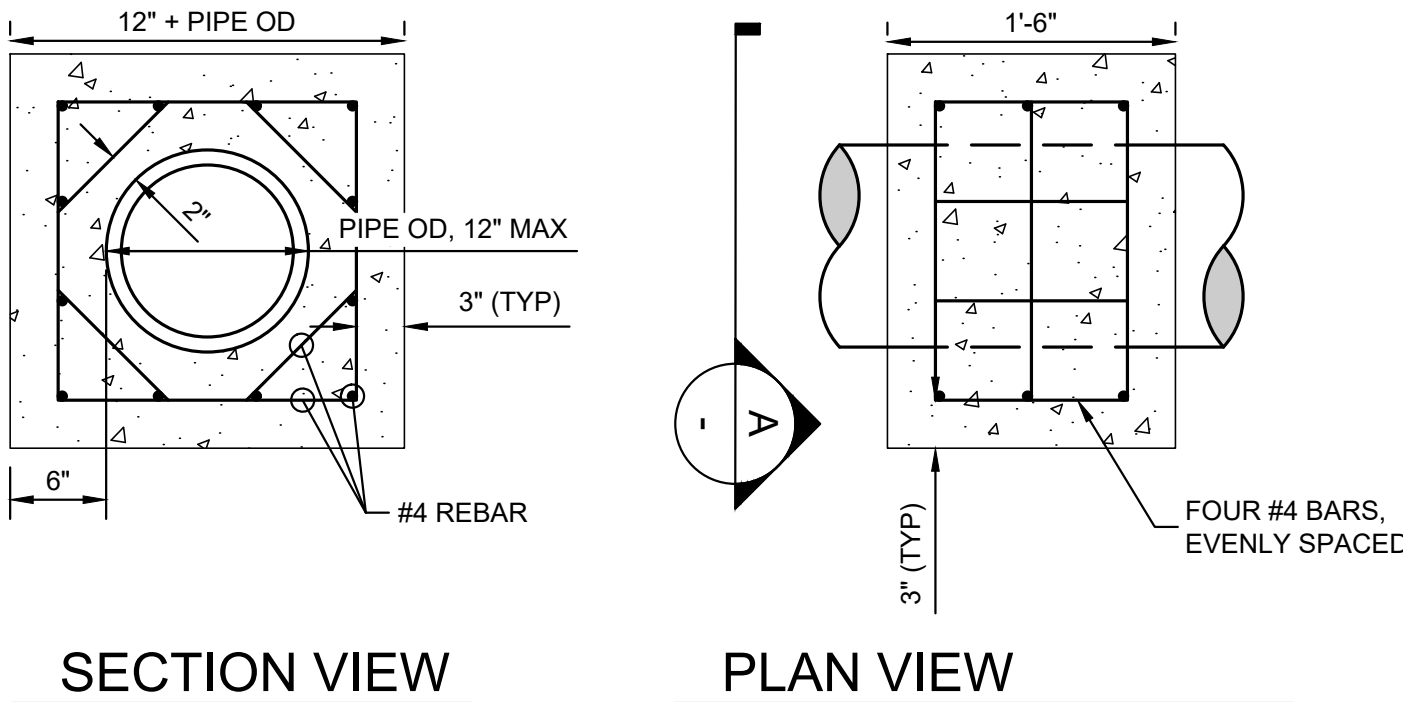
DETAIL NOTE:

- CONTRACTOR SHALL KEEP HATCH LOCKED AS REQUIRED IN SPECIFICATION 01 35 00.



DETAIL NOTES:

- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
- COORDINATE TEMPORARY COVER WITH DEMOLITION SHOWN ON SHEET C-1.0, PHOTO DETAIL 4, AND IMPROVEMENTS ON SHEET C-3.1, DETAIL 1.
- THIS DETAIL IS CONCEPTUAL IN NATURE. CONTRACTOR SHALL ENSURE INJECTION WELL IS SECURED AS OUTLINED IN SPECIFICATION 01 35 00.



SECTION VIEW

PLAN VIEW

6 NON-TRAFFIC RATED HATCH

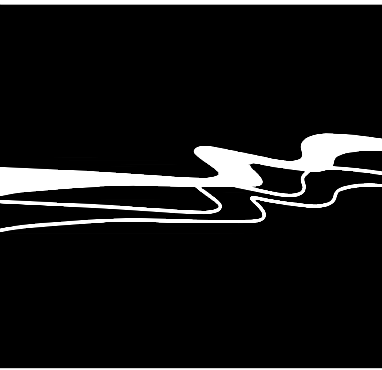
SCALE: NTS

7 TEMPORARY HATCH COVER CONCEPT

SCALE: 1" = 1'

8 CONCRETE PIPE COLLAR

SCALE: 1" = 1'



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www.wallacegroup.us



SIGNATURE

DATE SIGNED

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MARINA COAST WATER DISTRICT
RESERVATION ROAD DESAL PLANT RENOVATION
CIVIL DETAILS, SHEET 3 OF 3

JOB #: 1045-11
DESIGNERS: ZCM
DRAWN BY: LJP
DATE: 11/19/25

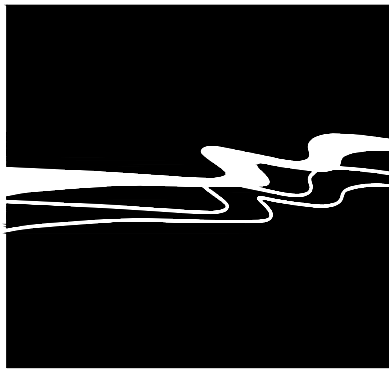
DRAWING NO.

C-4.3

11 OF 18 SHEETS



Rev.	Date	Description of Revisions	By



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MARINA COAST WATER DISTRICT
RESERVATION ROAD DESAL PLANT RENOVATION
EROSION CONTROL PLAN

JOB #: 1045-11
DESIGNERS: ZCM
DRAWN BY: ZCM
DATE: 11/19/2025

DRAWING NO.

C-5.0

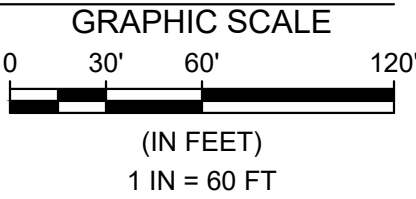
12 OF 18 SHEETS



DISTURBED AREA

200 LF OF COMBINED CONDUIT/PIPE TRENCH X 15 FT WIDTH = 3,000 SF
450 LF OF CONDUIT TO INTAKE WELL X 10 FT WIDTH = 4,500 SF
WELL ACCESS AREA = 8,670 SF
250 LF OF CONDUIT TO DISCHARGE WELL X 10 FT WIDTH = 2,500 SF
150 LF OF COMBINED CONDUIT/PIPE TRENCH X 15 WIDTH = 2,250 SF
DISCHARGE WELL WORK AREA = 400 SF
CONTRACTOR STOCKPILE/STORAGE AREA = 4,000 SF
TOTAL DISTURBED AREA = 25,320 SF (0.58 AC)

1 EROSION, SEDIMENT, AND WATER POLLUTION CONTROL PLAN



PROJECT SCOPE

- RENOVATION OF EXISTING DESALINATION PLANT FACILITIES, INCLUDING:
 - REHABILITATION OF EXISTING SEAWATER INTAKE WELL AND BRINE DISCHARGE WELL.
 - REPLACEMENT OF SEAWATER INTAKE WELL PUMP, VAULT, AND APPROX. 200 LF OF PIPING.
 - REPLACEMENT OF APPROX. 15 LF OF PROCESS PIPING AT THE EXISTING DESALINATION PLANT.
 - REPLACEMENT OF APPROX. 150 LF OF BRINE DISCHARGE PIPING AND WELLHEAD STRUCTURE.
 - REPLACEMENT OF EXISTING ELECTRICAL SYSTEMS, INCLUDING EXISTING SWITCHGEAR, CONDUIT, AND CABLING TO INTAKE PUMP.

GENERAL NOTES:

- ALL BMP'S SHALL BE INSTALLED PER THE LATEST VERSION OF THE CALTRANS CONSTRUCTION SITE BEST MANAGEMENT PRACTICES (BMP) MANUAL AND DETAILS SHOWN IN SHEETS C-5.1 AND C-5.2.

EROSION AND SEDIMENT CONTROL NOTES:

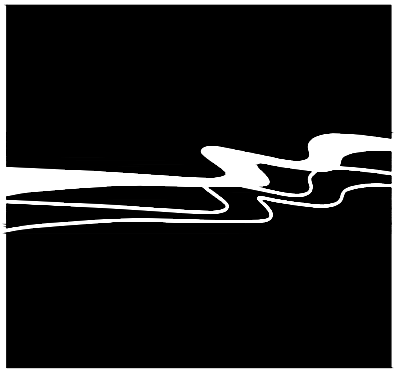
- CONSTRUCTION EQUIPMENT PARKING AND STORAGE, DRIP PANS REQUIRED. FOR FUELING AND MAINTENANCE. SEE REQUIRED BMP'S NS-9 AND NS-10. SHEET C-5.2.
- CONSTRUCTION TRASH RECYCLING MUST BE COVERED WITH WATERTIGHT COVER AT ALL TIMES, WITH NO OVERFLOWS ALLOWED PER REQUIRED BMP WM-5. SEE SHEET C-5.2.
- FUEL STORAGE/HAZMAT AREA WITH SECONDARY CONTAINMENT PER REQUIRED BMP'S PER REQUIRED BMP'S WM-1, WM-2, WM-4, WM-5, WM-6, WM-7, AND WM-10. SEE SHEET C-5.2.
- CONCRETE WASHOUT PER REQUIRED DETAIL WM-8. SEE SHEET C-5.2.
- INSTALL PROTECTION AT ALL STORM DRAIN INLETS WITHIN 50' OF PROJECT DISTURBANCE PER REQUIRED BMP'S SE-10. SEE SHEET C-5.2.
- STOCKPILE MANAGEMENT PER BMP WM-3. SEE SHEET C-5.2.
- STREET SWEEPING TO BE CONDUCTED TO REMOVE ANY SEDIMENT ON IMPERVIOUS SURFACES WITHIN 50' OF DISTURBANCE AND EQUIPMENT TRAVEL WAYS PER BMP SE-7. SHEET C-5.2. CONTRACTOR RESPONSIBLE FOR INSPECTING SITE DAILY AND REMOVING SEDIMENT AS REQUIRED.

DUST CONTROL NOTES:

- THE CONTRACTOR SHALL TAKE EFFECTIVE ACTION TO PREVENT THE FORMATION OF AN AIRBORNE DUST NUISANCE AND SHALL BE RESPONSIBLE FOR ANY DAMAGE RESULTING FROM THEIR FAILURE TO DO SO. CONTRACTOR SHALL AT A MINIMUM PERFORM THE FOLLOWING MITIGATION MEASURES:
 - WATERING OF DISTURBED AREAS DURING CONSTRUCTION TO MINIMIZE AIRBORNE DUST.
 - STABILIZE DISTURBED AREA WITH EROSION CONTROL MEASURES DURING AND FOLLOWING CONSTRUCTION.
 - TEMPORARY CONSTRUCTION ENTRANCE / EXIT INSTALLED AT ALL UNPAVED ACCESS ROADS. ENTRANCE AND EXIT TO UNPAVED AREAS SHOULD BE LIMITED TO ONE PER SITE.



Rev.	Date	Description of Revisions	By



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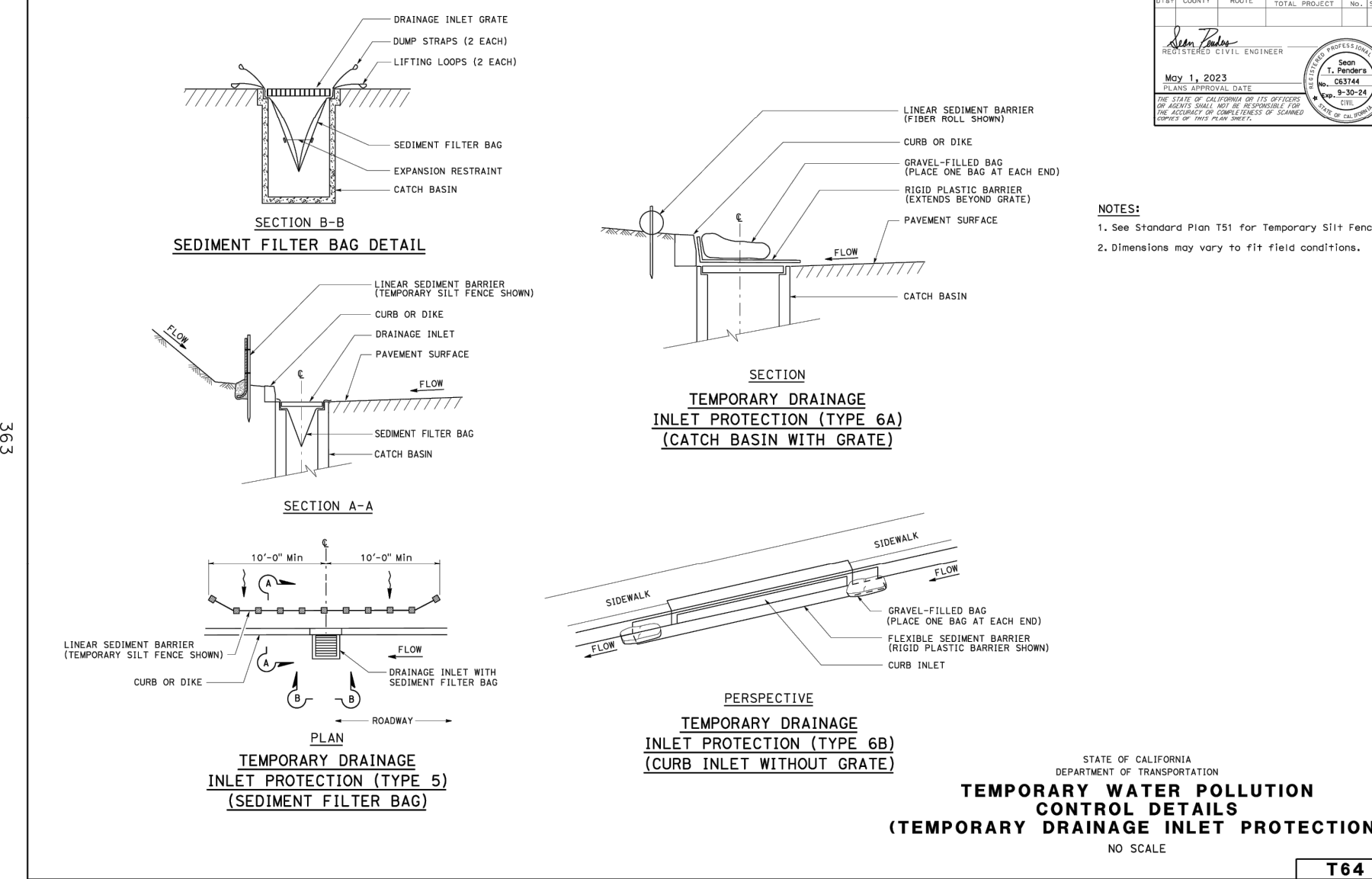
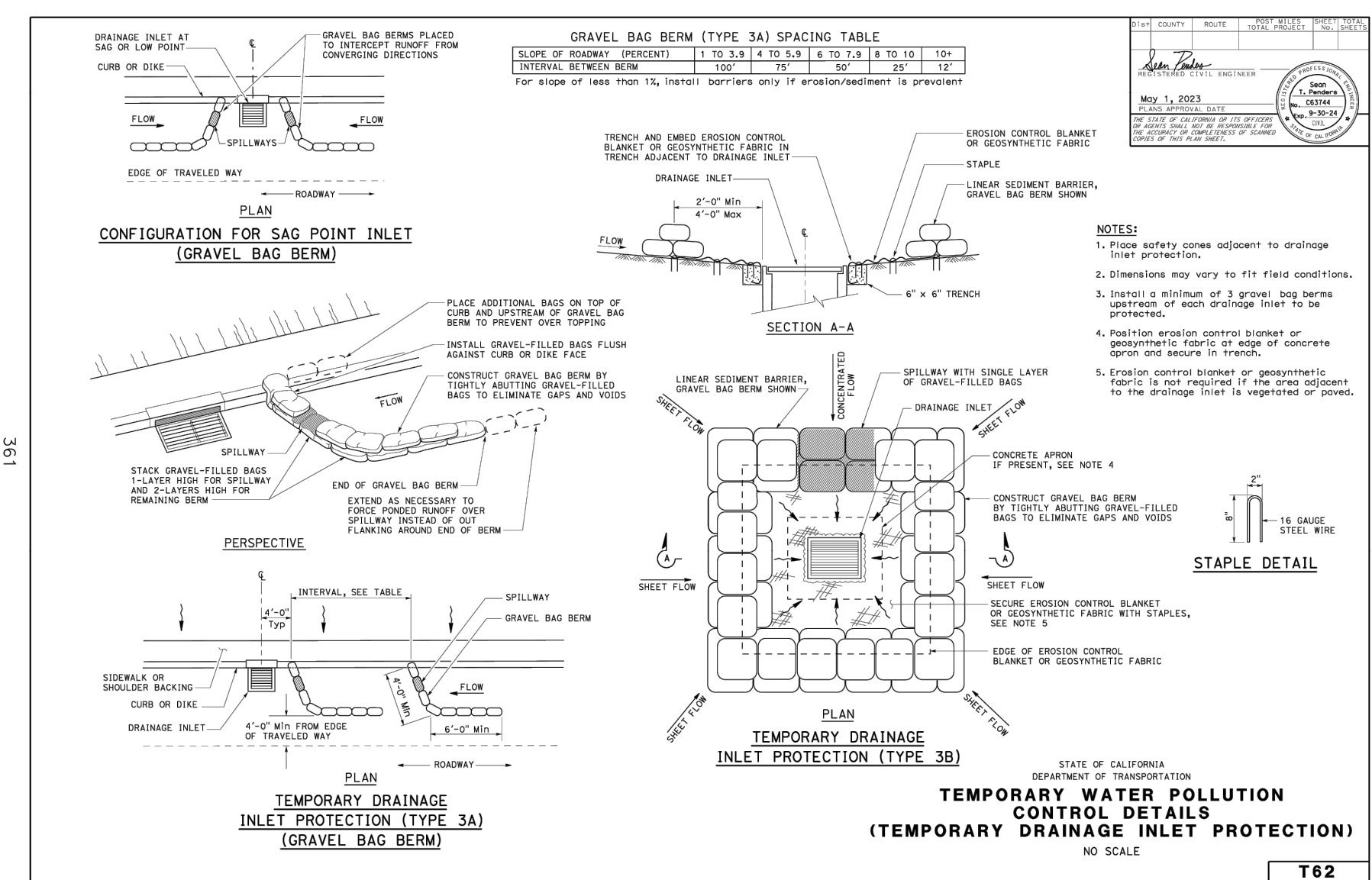
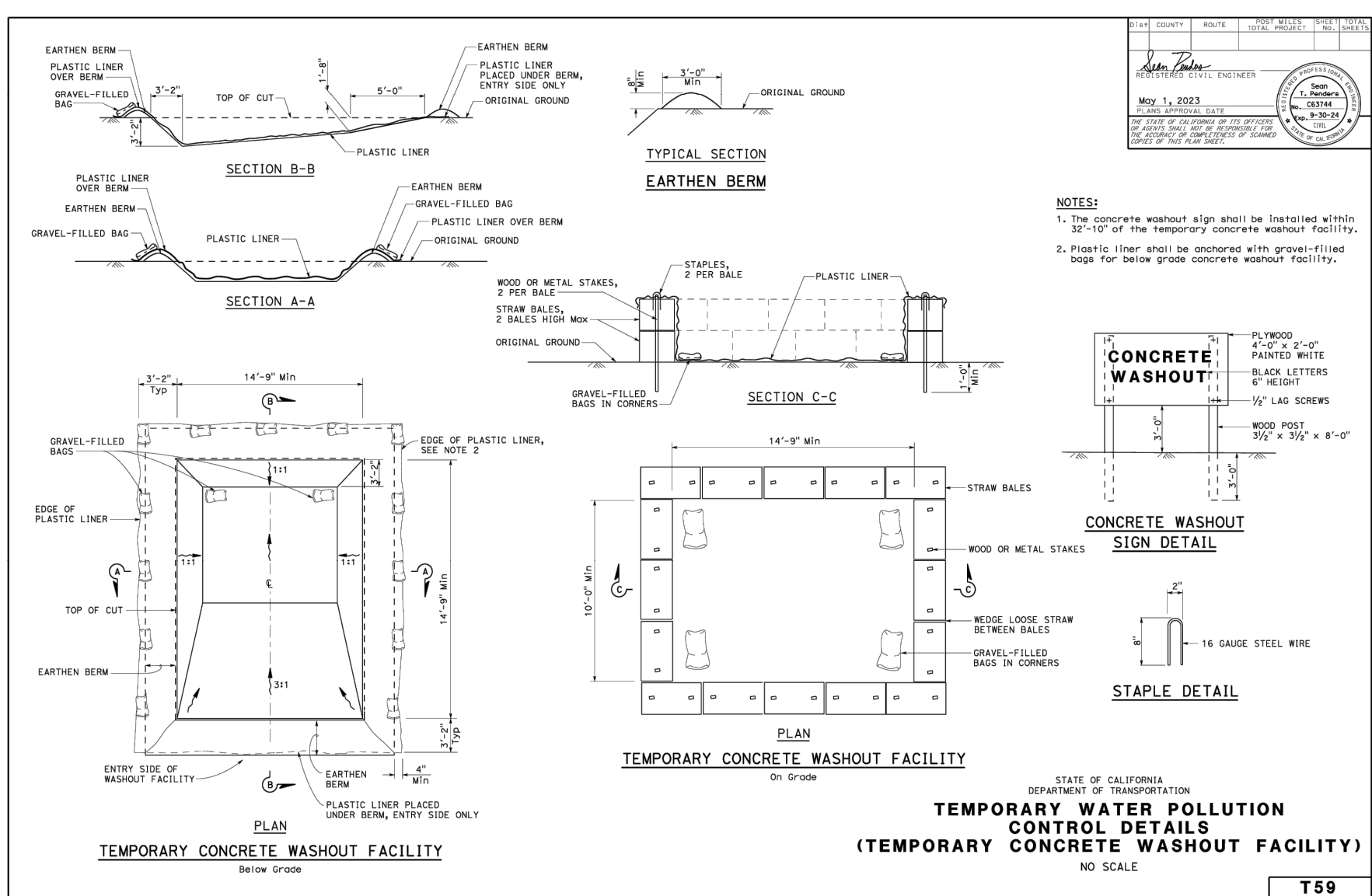
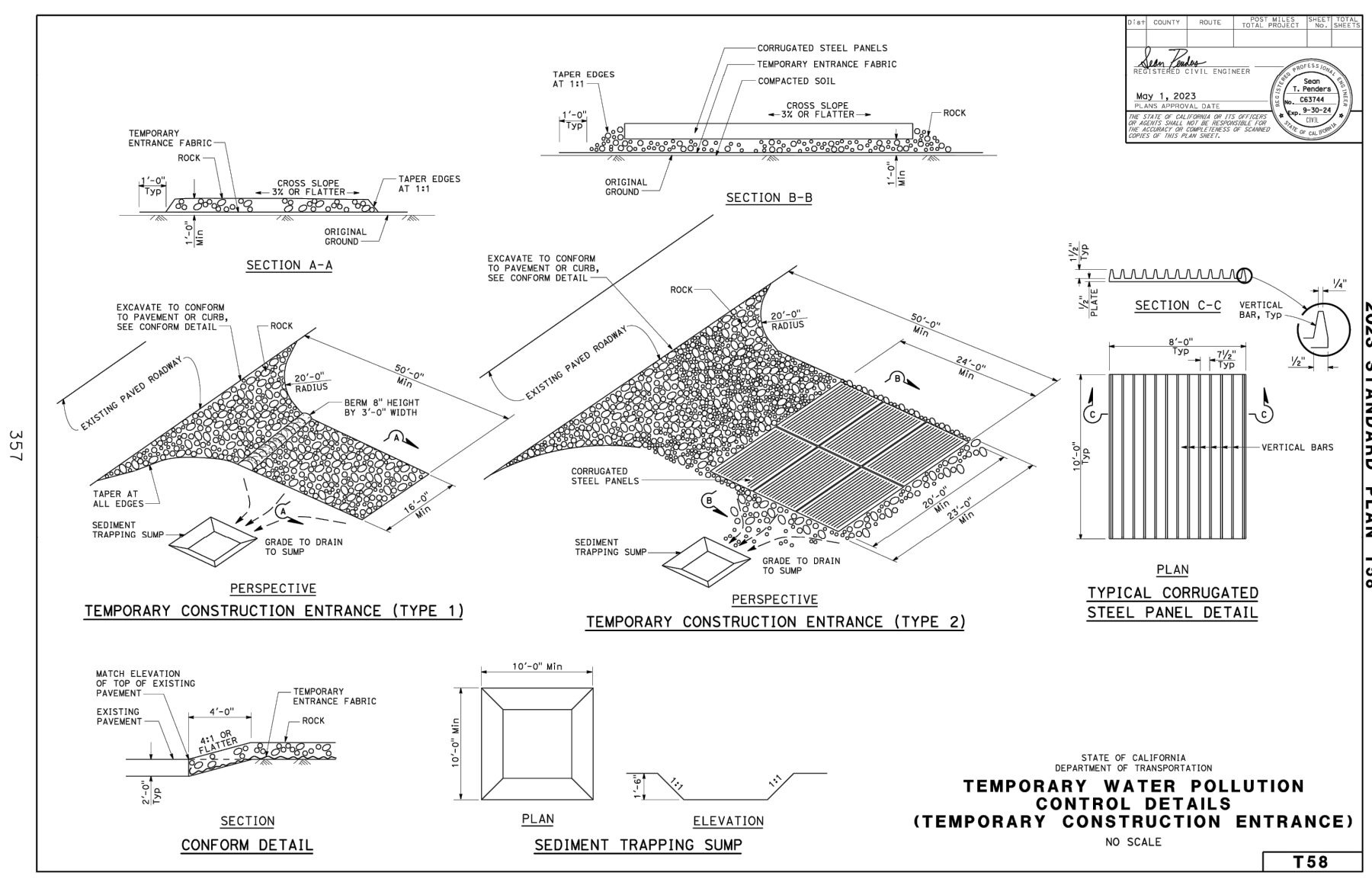
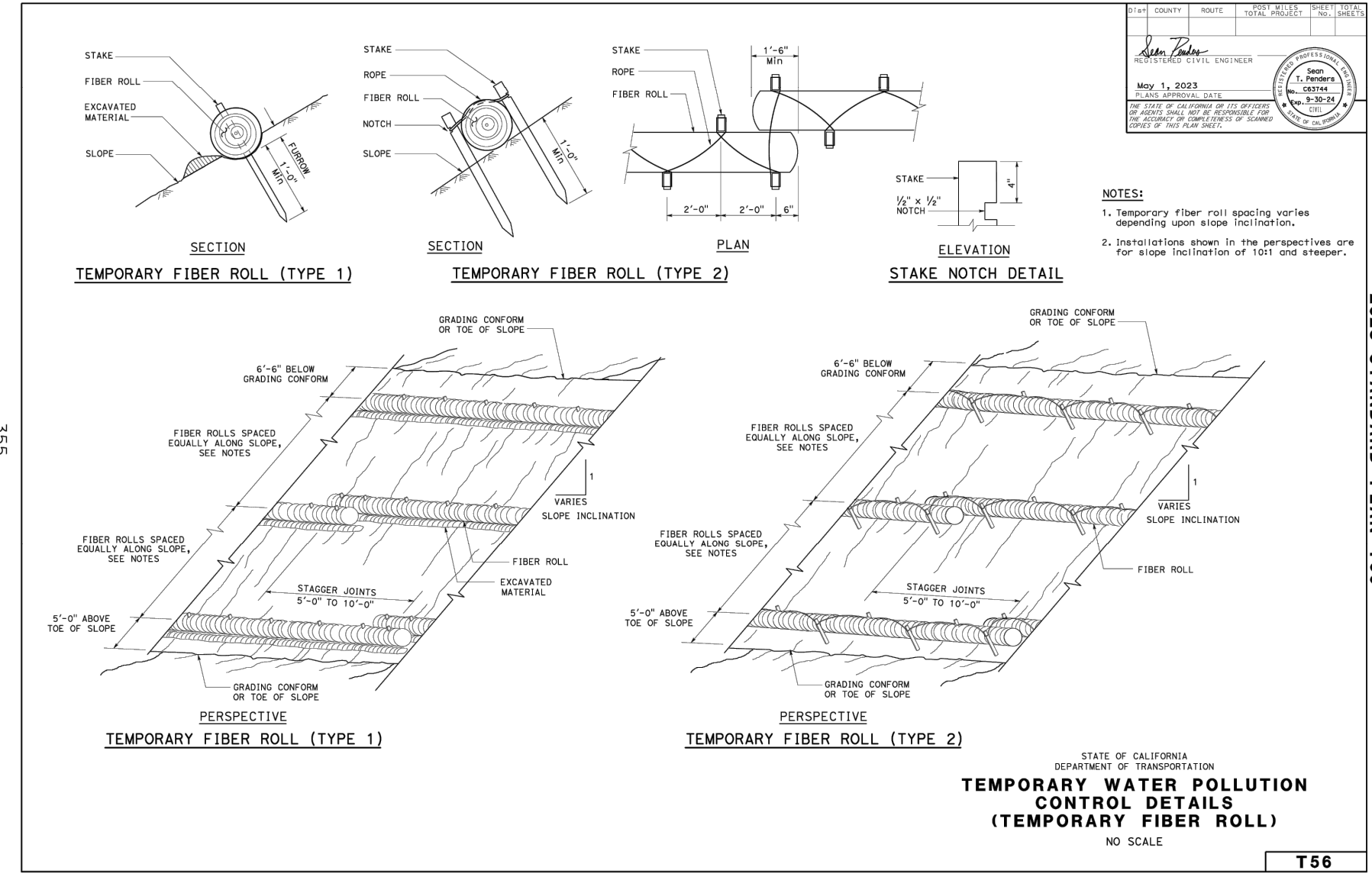
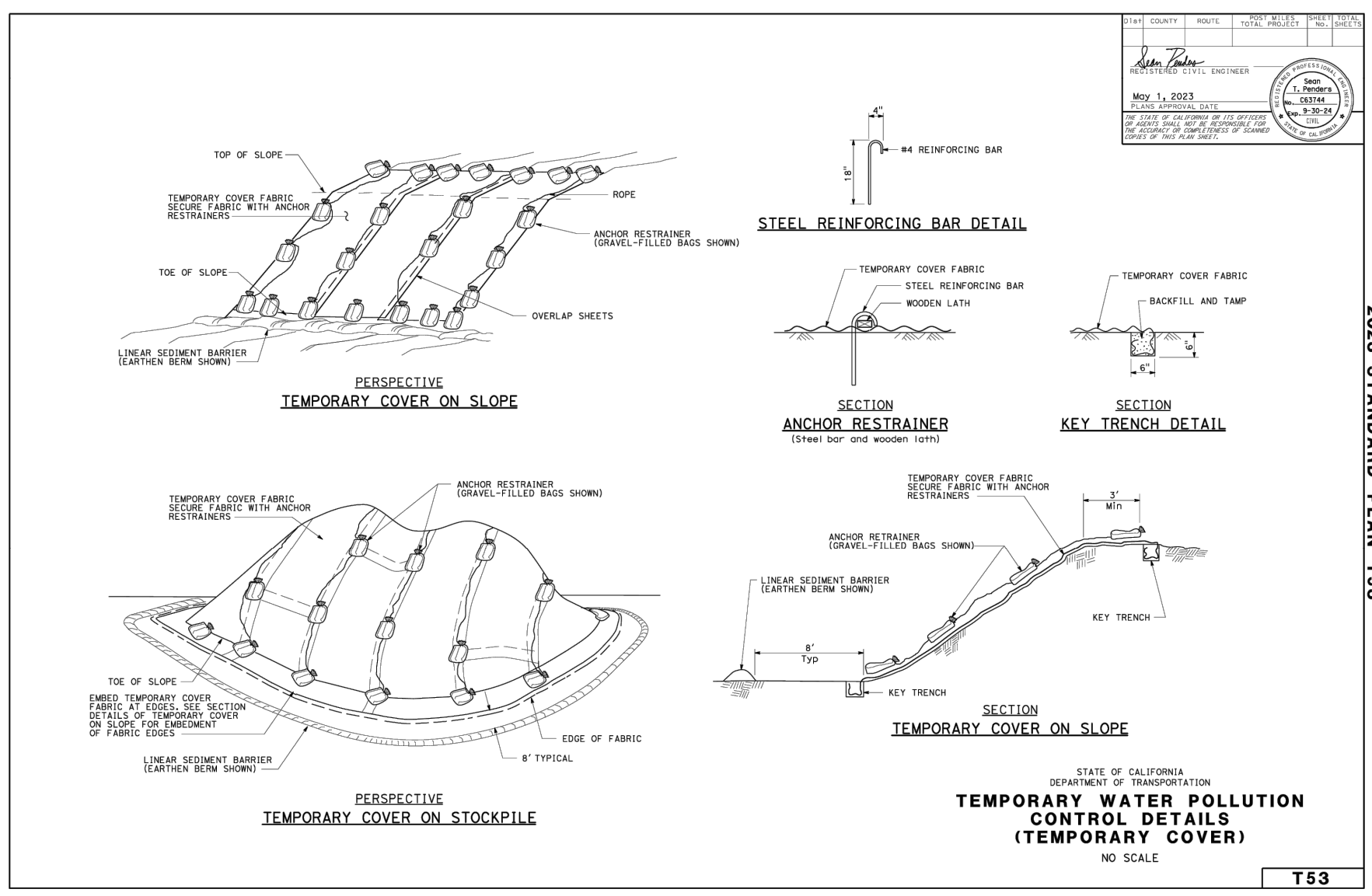
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MARINA COAST WATER DISTRICT
RESERVATION ROAD DESAL PLANT RENOVATION
EROSION CONTROL PLAN DETAILS

JOB #: 1045-11
DESIGNERS: ZCM
DRAWN BY: ZCM
DATE: 11/19/25
DRAWING NO.
C-5.1
13 OF 18 SHEETS



Rev.	Date	Description of Revisions	By

Vehicle and Equipment Fueling NS-9

Standard Symbol	BMP Objectives
	<input type="checkbox"/> Soil Stabilization
	<input type="checkbox"/> Sediment Control
	<input type="checkbox"/> Tracking Control
	<input type="checkbox"/> Wind Erosion Control
	<input type="checkbox"/> Non-Stormwater Management
	<input type="checkbox"/> Materials and Waste Management

Definition and Purpose

Vehicle and equipment fueling procedures and practices are designed to minimize or eliminate the discharge of fuel spills and leaks into storm drain systems or to receiving waters.

Appropriate Applications

These procedures are applied on all construction sites where vehicle and equipment fueling takes place.

Limitations

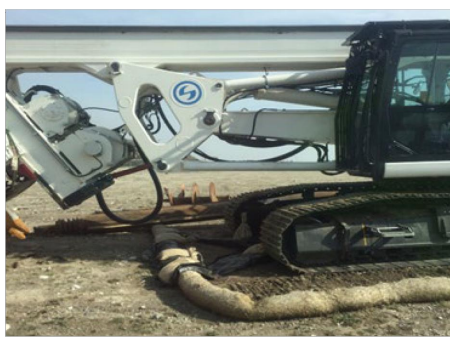
This BMP may be limited or disallowed under regulatory agency permits, particularly near Environmentally Sensitive Areas (ESAs).

Onsite vehicle and equipment fueling should only be used where it's impractical to send vehicles and equipment off-site for fueling.

Standards and Specifications

When fueling must occur onsite, the contractor shall select and designate an area or areas to be used, subject to approval of the RE.

Dedicated fueling areas shall be protected from stormwater run-on and runoff, and shall be located at least 50 feet from downstream drainage facilities and watercourses. Fueling must be performed on level-grade areas. Protect fueling areas with berms or dikes to prevent run-on, runoff, and to contain spills.

Vehicle and Equipment Maintenance NS-10

Standard Symbol	BMP Objectives
	<input type="checkbox"/> Soil Stabilization
	<input type="checkbox"/> Sediment Control
	<input type="checkbox"/> Tracking Control
	<input type="checkbox"/> Wind Erosion Control
	<input type="checkbox"/> Non-Stormwater Management
	<input type="checkbox"/> Materials and Waste Management

Definition and Purpose

Procedures and practices to minimize or eliminate the discharge of pollutants to the storm drain systems or to receiving waters from vehicle and equipment maintenance activities.

Appropriate Applications

These procedures apply on all construction projects where an onsite uncovered yard area is necessary for storage and maintenance of heavy equipment and vehicles.

Limitations

This BMP may be limited or disallowed under regulatory agency permits, particularly near Environmentally Sensitive Areas (ESAs).

Onsite vehicle and equipment maintenance should only be used where it's impractical to send vehicles and equipment off-site for fueling.

Standards and Specifications

When maintenance must occur onsite, the contractor shall select and designate an area to be used, subject to approval of the RE and implement appropriate controls for the activities to be performed.

Dedicated maintenance areas shall be on level ground and protected from storm water run-on and runoff, and shall be located at least 50 ft from downstream drainage facilities and receiving waters.

Protect maintenance areas with berms or dikes to prevent run-on, runoff, and to contain spills.

Street Sweeping SC-7

Standard Symbol	BMP Objectives
	<input type="checkbox"/> Soil Stabilization
	<input type="checkbox"/> Sediment Control
	<input type="checkbox"/> Tracking Control
	<input type="checkbox"/> Wind Erosion Control
	<input type="checkbox"/> Non-Stormwater Management
	<input type="checkbox"/> Materials and Waste Management

Definition and Purpose

Practices to remove tracked sediment to prevent the sediment from entering a storm drain or receiving waters.

Appropriate Applications

These practices are implemented anywhere sediment is tracked from the project site onto public or private paved roads, typically at jobsite entrances and exits.

Limitations

Sweeping and vacuuming may not be effective when soil is wet or muddy.

Standards and Specifications**General Requirements**

Sweep by hand or mechanical methods, such as vacuuming. Kick brooms or sweeper attachments may not be used.

At least one street sweeper in good working order must be at the job site at all times when street sweeping work is required.

Use one of the following types of street sweepers:

Temporary Drainage Inlet Protection SC-10

Standard Symbol	BMP Objectives
	<input type="checkbox"/> Sediment Control
	<input type="checkbox"/> Tracking Control
	<input type="checkbox"/> Wind Erosion Control
	<input type="checkbox"/> Non-Stormwater Management
	<input type="checkbox"/> Materials and Waste Management

Definition and Purpose

Temporary drainage inlet protection consists of devices used at storm drain inlets that detain and/or filter sediment-laden runoff prior to discharge into storm drainage systems. This is achieved by allowing sediment to settle and/or filtering sediment upstream of a linear sediment barrier.

Appropriate Applications

Where ponding will not encroach into highway traffic.

Where sediment laden surface runoff may enter an inlet.

Where disturbed drainage areas have not yet been permanently stabilized.

Where the drainage area is 1 ac or less.

Used year-round.

Limitations

Requires an adequate area for water to pond without encroaching upon traveled way and should not present an obstacle to oncoming traffic.

May require other methods of temporary protection to prevent sediment-laden stormwater and non-stormwater discharges from entering the storm drain system.

Sediment removal may be difficult in high flow conditions or if runoff is heavily sediment laden. If high flow conditions are expected, use other on-site sediment trapping techniques, such as SC-4 "Check Dams," in conjunction with temporary drainage inlet protection.

Temporary Construction Entrance/Exit TC-1

Standard Symbol	BMP Objectives
	<input type="checkbox"/> Sediment Control
	<input type="checkbox"/> Tracking Control
	<input type="checkbox"/> Wind Erosion Control
	<input type="checkbox"/> Non-Stormwater Management
	<input type="checkbox"/> Materials and Waste Management

Definition and Purpose

A temporary construction entrance/exit is defined by a point of entrance/exit to a construction site that is stabilized to reduce the tracking of mud and dirt onto public roads by construction vehicles.

Where dirt or mud can be tracked onto public roads.

Adjacent to water bodies.

Where poor soils are encountered.

Where dust is a problem during dry weather conditions.

Limitations

Site conditions will dictate design and need.

Limit the points of entrance/exit to the construction site.

Limit speed of vehicles to control dust.

Standards and Specifications**General Requirements**

Temporary construction entrance/exit must comply with Standard Specification Section 13-7.03 Temporary Construction Roadways and Entrances.

Material Delivery and Storage WM-1

Standard Symbol	BMP Objectives
	<input type="checkbox"/> Soil Stabilization
	<input type="checkbox"/> Sediment Control
	<input type="checkbox"/> Tracking Control
	<input type="checkbox"/> Wind Erosion Control
	<input type="checkbox"/> Non-Stormwater Management
	<input type="checkbox"/> Materials and Waste Management

Definition and Purpose

Procedures and practices for the proper handling and storage of materials in a manner that minimizes or eliminates the discharge of these materials to the storm drain system or to receiving waters.

Appropriate Applications

These procedures are implemented at all construction sites with delivery and storage of the following:

- Hazardous chemicals such as:
 - Acids
 - Lime
 - Gases
 - Adhesives
 - Paints
 - Solvents
 - Curing compounds
- Soil stabilizers and binders
- Fertilizers
- Detergents
- Plaster
- Petroleum products such as fuel, oil, and grease
- Asphalt and concrete components
- Pesticides and herbicides
- Other materials that may be detrimental if released to the environment

Material Use WM-2

Standard Symbol	BMP Objectives
	<input type="checkbox"/> Soil Stabilization
	<input type="checkbox"/> Sediment Control
	<input type="checkbox"/> Tracking Control
	<input type="checkbox"/> Wind Erosion Control
	<input type="checkbox"/> Non-Stormwater Management
	<input type="checkbox"/> Materials and Waste Management

Definition and Purpose

These are procedures and practices for use of construction materials in a manner that minimizes or eliminates the discharge of these materials to the storm drain system or to receiving waters.

Appropriate Applications

This BMP applies to all construction projects. These procedures apply when the following materials are used or prepared on site:

- Hazardous chemicals such as:
 - Acids
 - Lime
 - Gases
 - Adhesives
 - Paints
 - Solvents
 - Curing compounds
- Soil stabilizers and binders
- Fertilizers
- Detergents
- Plaster
- Petroleum products such as fuel, oil, and grease
- Asphalt and concrete components
- Pesticides and herbicides
- Other materials that may be detrimental if released to the environment

Stockpile Management WM-3

Standard Symbol	BMP Objectives
	<input type="checkbox"/> Soil Stabilization
	<input type="checkbox"/> Sediment Control
	<input type="checkbox"/> Tracking Control
	<input type="checkbox"/> Wind Erosion Control
	<input type="checkbox"/> Non-Stormwater Management
	<input type="checkbox"/> Materials and Waste Management

Definition and Purpose

Stockpile management procedures and practices are designed to reduce or eliminate air and storm water pollution from stockpiles of soil, and paving materials such as portland cement concrete (PCC) rubble, asphalt concrete (AC), asphalt concrete rubble, aggregate base, aggregate subbase or pre-mixed aggregate, asphalt binder (so called "cold mix" asphalt) and pressure treated wood.

Appropriate Applications

Implemented in all projects that stockpile soil and other materials.

Limitations

Use of plastic cover might be restricted depending on the location of the site and regulatory permits.

Standards and Specifications

Stockpiles must comply with Standard Specification 13-4.03C (3) Stockpile Management.

Protection of stockpiles is a year-round requirement.

Locate stockpiles a minimum of 50 ft. away from concentrated flows of storm water, drainage courses, and inlets.

Utilize run-on and run-off BMPs to ensure stockpile materials are protected and do not have the potential to discharge material.

Implement wind erosion control practices as appropriate to all stockpiled material. For specific information see WM-1, "Wind Erosion Control."

Spill Prevention and Control WM-4

Standard Symbol	BMP Objectives
	<input type="checkbox"/> Soil Stabilization
	<input type="checkbox"/> Sediment Control
	<input type="checkbox"/> Tracking Control
	<input type="checkbox"/> Wind Erosion Control
	<input type="checkbox"/> Non-Stormwater Management
	<input type="checkbox"/> Materials and Waste Management

Definition and Purpose

These procedures and practices are implemented to prevent and control spills in a manner that minimizes or prevents the discharge of spilled material to the drainage system or watercourses.

Appropriate Applications

This best management practice (BMP) applies to all construction projects. Spill control procedures are implemented anytime chemicals and/or hazardous substances are stored. Substances may include, but are not limited to:

- Soil stabilizers/binders.
- Dust Palliatives.
- Herbicides.
- Growth inhibitors.
- Fertilizers.
- Deicing/anti-icing chemicals.
- Fuels.
- Lubricants.
- Other petroleum distillates.

To the extent that the work can be accomplished safely, spills of oil, petroleum products, substances listed under 40 CFR parts 110, 117, and 302, and sanitary and septic wastes shall be contained and cleaned up immediately.

Solid Waste Management WM-5

Standard Symbol	BMP Objectives
	<input type="checkbox"/> Soil Stabilization
	<input type="checkbox"/> Sediment Control
	<input type="checkbox"/> Tracking Control
	<input type="checkbox"/> Wind Erosion Control
	<input type="checkbox"/> Non-Stormwater Management
	<input type="checkbox"/> Materials and Waste Management

Definition and Purpose

Solid waste management procedures and practices are designed to minimize or eliminate the discharge of pollutants to the drainage system or to water bodies as a result of the creation, stockpiling, or removal of construction site wastes.

Appropriate Applications

Solid waste management procedures and practices are implemented on all construction projects that generate solid wastes.

Solid wastes include but are not limited to:

- Construction wastes including brick, mortar, timber, steel and metal scraps, sawdust, pipe and electrical fittings, non-hazardous equipment parts, styrofoam and other materials used to transport and package construction materials.
- Highway planning wastes, including vegetative material, plant containers, and packaging materials.
- Litter, including food containers, beverage cans, coffee cups, paper bags, plastic wrap, and smoking materials, including litter generated by the public.

Hazardous Waste Management WM-6

Standard Symbol	BMP Objectives
	<input type="checkbox"/> Soil Stabilization
	<input type="checkbox"/> Sediment Control
	<input type="checkbox"/> Tracking Control
	<input type="checkbox"/> Wind Erosion Control
	<input type="checkbox"/> Non-Stormwater Management
	<input type="checkbox"/> Materials and Waste Management

Definition and Purpose

These are procedures and practices to minimize or eliminate the discharge of pollutants from construction site hazardous waste to the storm drain systems or to watercourses.

Appropriate Applications

This best management practice (BMP) applies to all construction projects.

Hazardous waste management practices are implemented on construction projects that generate waste from the use of:

- Petroleum Products
- Asphalt Products
- Concrete Curing Compounds
- Pesticides
- Palliatives
- Acids
- Paints
- Stains
- Solvents
- Septic Wastes
- Wood Preservatives
- Roofing Tar, or
- Any materials deemed a hazardous waste in California, Title 22 Division 4.5, or listed in 40 CFR Parts 110, 117, 301, or 302.

Contaminated Soil Management WM-7

Standard Symbol	BMP Objectives
	<input type="checkbox"/> Soil Stabilization
	<input type="checkbox"/> Sediment Control
	<input type="checkbox"/> Tracking Control
	<input type="checkbox"/> Wind Erosion Control
	<input type="checkbox"/> Non-Stormwater Management
	<input type="checkbox"/> Materials and Waste Management

Definition and Purpose

These are procedures and practices to minimize or eliminate the discharges of pollutants to the drainage system or to receiving waters from contaminated soil.

Appropriate Applications

Contaminated soil management is implemented on construction projects where soil contamination may have occurred due to spills, illicit discharges, and leaks from underground storage tanks.

It may also apply to highway widening projects in older areas where median and shoulder soils may have been contaminated by actually deposited lead (ADI).

Limitations

The procedures and practices presented in this best management practice (BMP) are general. The contractor shall identify appropriate practices and procedures consistent with the plans and specifications for the specific contaminants known to exist or discovered on site.

The contractor may discover contaminated soils not identified in the plans and specifications by observing:

Spills and leaks, discoloration, odors or abandoned underground tanks or pipes.

Concrete Waste Management WM-8

Standard Symbol	BMP Objectives
	<input type="checkbox"/> Soil Stabilization
	<input type="checkbox"/> Sediment Control
	<input type="checkbox"/> Tracking Control
	<input type="checkbox"/> Wind Erosion Control
	<input type="checkbox"/> Non-Stormwater Management
	<input type="checkbox"/> Materials and Waste Management

Definition and Purpose

These are procedures and practices that are designed to minimize or eliminate the discharge of concrete waste materials to the storm drain systems or watercourses.

Appropriate Applications

Concrete waste management procedures and practices are implemented on construction projects where concrete is used as a construction material or where concrete dust and debris result from demolition activities.

Where slurries containing portland cement concrete (PCC) or asphalt concrete (AC) are generated, such as from sawcutting, coring, grinding, grooving, and hydro-concrete demolition.

Where concrete trucks and other concrete-coated equipment are washed on site, when approved by the Resident Engineer (RE). See also NS-8, "Vehicle and Equipment Cleaning."

Where mortar-mixing stations exist.

Limitations

None identified.

Standards and Specifications**Education**

Educate employees, subcontractors, and suppliers on the concrete waste management techniques described herein.

The WPC Manager shall oversee and enforce concrete waste management procedures.

Sanitary and Septic Waste Management WM-9

Standard Symbol	BMP Objectives
	<input type="checkbox"/> Soil Stabilization
	<input type="checkbox"/> Sediment Control
	<input type="checkbox"/> Tracking Control
	<input type="checkbox"/> Wind Erosion Control
	<input type="checkbox"/> Non-Stormwater Management
	<input type="checkbox"/> Materials and Waste Management

Definition and Purpose

Procedures and practices to minimize or eliminate the discharge of construction site sanitary and septic waste materials to the storm drain systems or to receiving waters.

Appropriate Applications

Sanitary/septic waste management practices are implemented on all construction sites that use temporary or portable sanitary and septic waste systems.

Limitations

None identified.

Standards and Specifications**Education**

Educate employees, subcontractors, and suppliers on sanitary and septic waste storage and disposal procedures.


Educate employees, subcontractors, and suppliers of potential dangers to humans and the environment from sanitary/septic wastes.

Instruct employees, subcontractors, and suppliers in identification of sanitary/septic waste.

Hold regular meetings to discuss and reinforce disposal procedures (incorporate into regular safety meetings and trainings).

Establish a continuing education program to indoctrinate new employees.

Liquid Waste Management WM-10

	
Standard Symbol	
BMP Objectives	
Soil Stabilization	<input type="checkbox"/>
Sediment Control	<input type="checkbox"/>
Tracking Control	<input type="checkbox"/>
Erosion Control	<input type="checkbox"/>
Stormwater Management	<input type="checkbox"/>
Materials and Waste Management	<input checked="" type="checkbox"/>

GENERAL NOTES

1. CODE COMPLIANCE: ALL WORK SHALL CONFORM TO AND BE PERFORMED IN ACCORDANCE WITH CODES, STANDARDS, AND ORDINANCES AS SET FORTH BY THE AUTHORITIES HAVING JURISDICTION AND THEIR LATEST ADOPTED EDITIONS (IN EFFECT AT TIME OF BUILDING PERMIT APPLICATION) OF THE FOLLOWING PUBLICATIONS:
- A. CALIFORNIA CODE OF REGULATIONS TITLE 24; INCLUDES CALIFORNIA ELECTRICAL CODE, CALIFORNIA FIRE CODE, CALIFORNIA BUILDING CODE, ETC. WITH LOCAL AMENDMENTS AS APPLICABLE.
- B. AMERICANS WITH DISABILITIES ACT (ADA).
2. SAFETY: THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO MAINTAIN ALL EQUIPMENT IN A SAFE AND RESPONSIBLE MANNER. KEEP DEAD FRONT EQUIPMENT IN PLACE WHILE EQUIPMENT IS ENERGIZED. CONDUCT ALL CONSTRUCTION OPERATIONS IN A SAFE MANNER FOR EMPLOYEES AS WELL AS OTHER WORKPERSONS OR ANYONE VISITING THE JOB SITE. PROVIDE BARRIERS, FLAGS, TAPE, ETC. AS REQUIRED FOR SAFETY. THE CONTRACTOR SHALL HOLD ALL PARTIES HARMLESS OF NEGLIGENT SAFETY PRACTICES, WHICH MAY CAUSE INJURY TO OTHERS ON OR NEAR THE JOB SITE.
3. FIRE RATED ASSEMBLIES SHALL MAINTAIN RATINGS AS SPECIFIED IN THE CALIFORNIA BUILDING CODE CHAPTER 7. CONTRACTOR SHALL PROVIDE AND INSTALL PHYSICAL ENCLOSURE AROUND FIXTURES, PANELS, ETC. AS REQUIRED. ALL ASSEMBLIES TO BE PENETRATED SHALL BE INSTALLED WITH APPLICABLE THROUGH-PENETRATION FIRESTOP SYSTEM AS DETERMINED BY UL CLASSIFICATION. BEFORE CONSTRUCTION, VERIFY AND COMPLY WITH REQUIREMENTS OF LOCAL AUTHORITY HAVING JURISDICTION.
4. MOUNTING HEIGHTS SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:

+15" AFF: RECEPTACLES, TELEPHONE, TV & DATA OUTLETS. (MEASURED BOTTOM OF OUTLET BOX)
+48" AFF: OUTLET ABOVE COUNTER (MEASURED TOP OF OUTLET BOX)
+48" AFF: LIGHT SWITCHES. (MEASURED TOP OF OUTLET BOX)
+48" AFF: FIRE ALARM MANUAL PULL STATIONS, T-STATS. (MEASURED TOP OF OUTLET BOX)
THE LOWER OF +80" AFF TO BOTTOM OF LENS, OR 6" BELOW CEILING: FIRE ALARM VISUALS.

ELECTRICAL SWITCHES: CONTROLS AND SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF THE ROOM OR AREA TO CONTROL LIGHT AND RECEPTACLE OUTLETS, APPLIANCES OR COOLING, HEATING AND VENTILATING EQUIPMENT, SHALL BE LOCATED NO MORE THAN 48 INCHES MEASURED FROM THE TOP OF THE OUTLET BOX NOR LESS THAN 15 INCHES MEASURED FROM THE BOTTOM OF THE OUTLET BOX TO THE LEVEL OF THE FINISH FLOOR OR WORKING PLATFORM. [CBC 11B-308.1.1]

ELECTRICAL RECEPTACLE OUTLETS: ELECTRICAL RECEPTACLE OUTLETS ON BRANCH CIRCUITS OF 30 AMPERES OR LESS AND COMMUNICATION SYSTEM RECEPTACLES SHALL BE LOCATED NO MORE THAN 48 INCHES MEASURED FROM THE TOP OF THE RECEPTACLE OUTLET BOX OR RECEPTACLE HOUSING NOR LESS THAN 15 INCHES MEASURED FROM THE BOTTOM OF THE RECEPTACLE OUTLET BOX OR RECEPTACLE HOUSING TO THE LEVEL OF THE FINISH FLOOR OR WORKING PLATFORM [CBC 11B-308.1.2]

BEFORE ROUGH-IN, VERIFY ALL MOUNTING HEIGHTS AND EXACT LOCATIONS FOR ALL EQUIPMENT ELECTRICAL CONNECTIONS, STUB-UPS, RECEPTACLES, OUTLETS, ETC. WITH ARCHITECT OR OWNER. PLACE DEVICES LOCATED ABOVE COUNTERS, SHELVING, ETC. AND IN BATHROOMS SO AS NOT TO CONFLICT WITH EDGES OF WAINSCOTING, COUNTER SPLASH, SHELVING, ETC. ARCHITECTURAL SHEETS SHALL GOVERN.

5. LABEL PANELS, CABINETS, BACKBOARDS, MAIN DEVICES, SAFETY SWITCHES, CONTACTORS AND OTHER SPECIFICALLY DESIGNATED EQUIPMENT SHOWN ON PLANS. USE ENGRAVED LAMINATED PLASTIC NAMEPLATES ATTACHED BY SCREWS OR RIVETS. FOR FEEDERS, NEATLY AND INDELIBLY LABEL CONDUIT DESTINATIONS ON BOTH VISIBLE ENDS OF CONDUIT RUNS WHERE CONDUITS TERMINATE AT DESIGNATED ENCLOSURES, STRUCTURES OR EQUIPMENT (INCLUDING PULL AND SPLICE BOXES).
6. EQUIPMENT ANCHORAGE NOTE
ALL MECHANICAL AND ELECTRICAL EQUIPMENT SHALL BE ANCHORED OR BRACED TO MEET THE HORIZONTAL AND VERTICAL FORCES PRESCRIBED IN THE 2019 CBC, SECTION 1616A.1.23 AND ASCE 7-10 SECTIONS 13.3, 13.4 & 13.6.

THE ATTACHMENT OF THE FOLLOWING ITEMS SHALL BE DESIGNED TO RESIST THE FORCES PRESCRIBED ABOVE, BUT NEED NOT BE DETAILED ON THE PLANS:

- A. EQUIPMENT WEIGHING LESS THAN 400 POUNDS SUPPORTED DIRECTLY ON THE FLOOR OR ROOF.
B. FURNITURE REQUIRED TO BE ATTACHED IN ACCORDANCE WITH PART 2, TITLE 24, C.C.R..
C. TEMPORARY OR MOVABLE EQUIPMENT.
D. EQUIPMENT WEIGHING LESS THAN 20 POUNDS SUPPORTED BY VIBRATION ISOLATORS.
E. EQUIPMENT WEIGHING LESS THAN 20 POUNDS SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

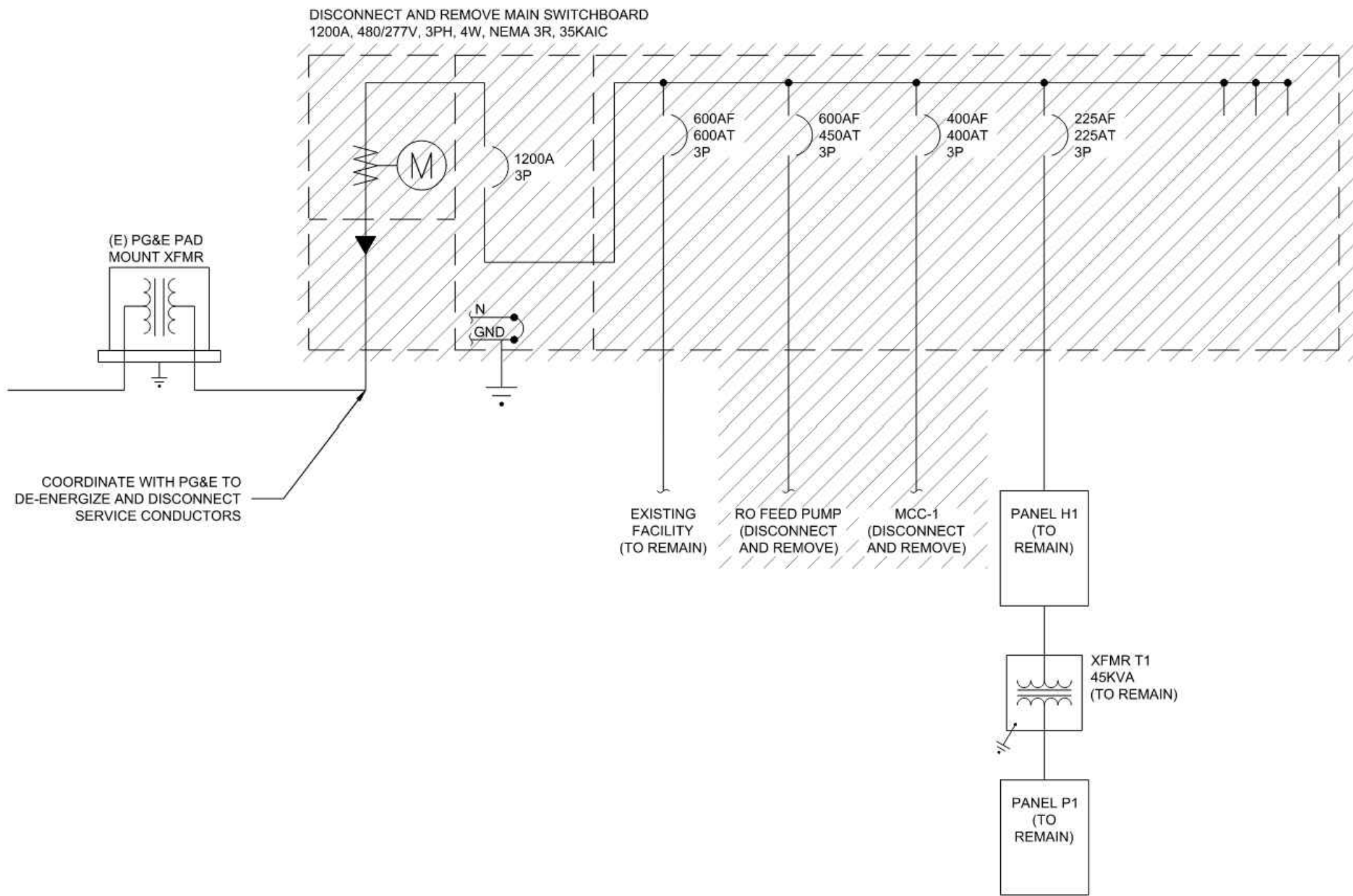
FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE MECHANICAL/ELECTRICAL ENGINEER AND THE FIELD REPRESENTATIVE OF THE DIVISION OF THE STATE ARCHITECT.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

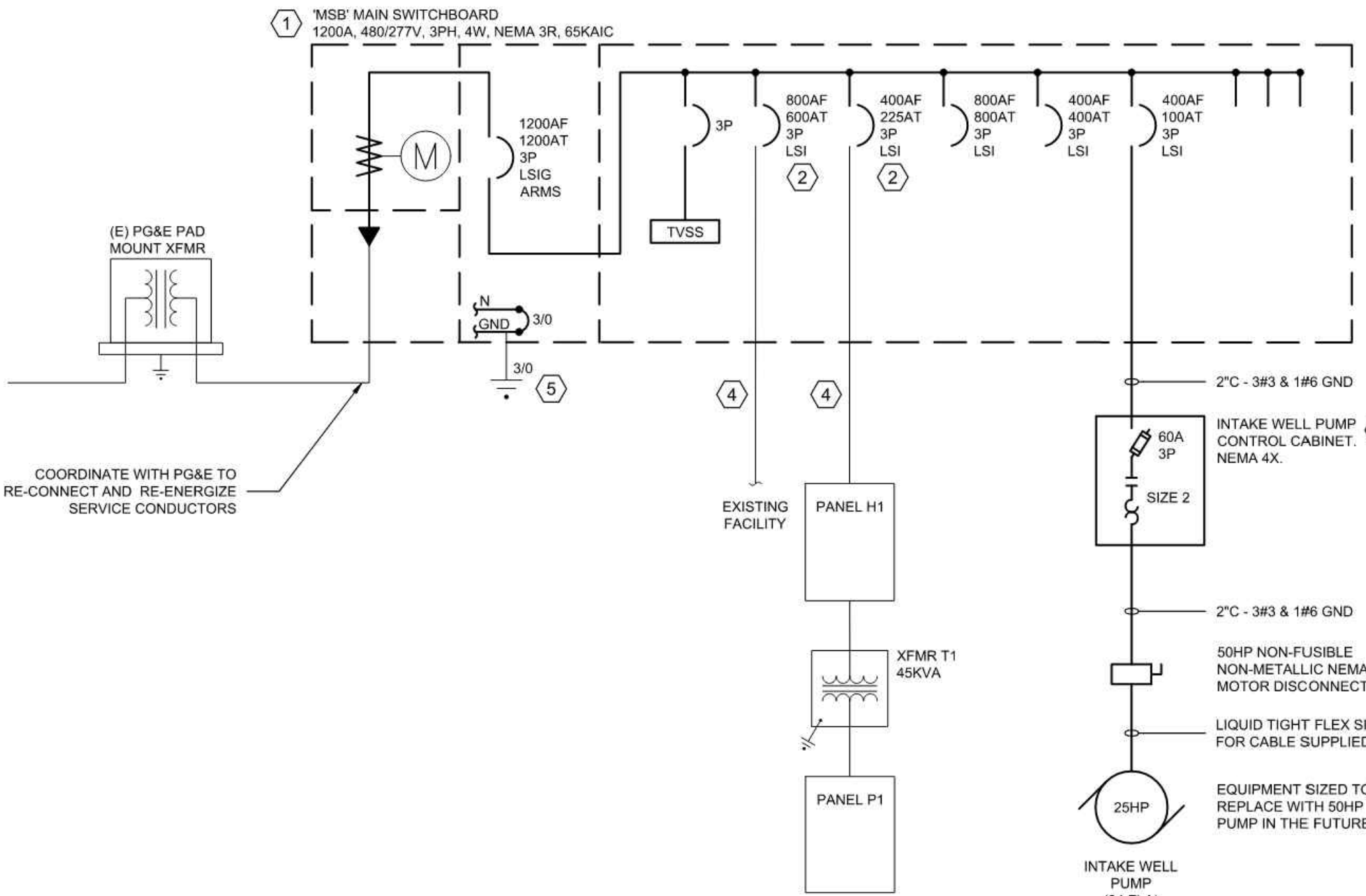
PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO RESIST THE FORCES PRESCRIBED IN ASCE 7-10 SECTIONS 13.3.1 AND 13.3.2.

SINGLE LINE DIAGRAM NOTES

- IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO CONTACT AND COORDINATE WITH THE SERVING UTILITY TO ENSURE ALL SERVING UTILITY REQUIREMENTS ARE MET.
- SERVICE ENTRANCE EQUIPMENT SHALL BE IN ACCORDANCE WITH THE SERVING ELECTRIC UTILITY COMPANY'S REQUIREMENTS.
- ALL CONDUCTORS SHALL BE COPPER WITH TYPE XHHW-2 INSULATION UNLESS OTHERWISE NOTED.
- ALL SWITCHES, CIRCUIT BREAKERS AND OTHER EQUIPMENT, AS SPECIFIED, SHALL HAVE TERMINATION PROVISIONS LISTED AND IDENTIFIED FOR USE WITH 75 DEG. CONDUCTORS, AND ALL FEEDER CONDUCTORS, AND CONDUITS, ARE SIZE BASED ON USE OF 75 DEG. C COPPER WIRES TYPE XHHW-2.
- ALL EQUIPMENT SHALL HAVE AN APPROVED TESTING LABORATORY LABEL ATTACHED [UL, CSA, ETC.] (CEC 110-2).
- THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR SUPPLYING SWITCHGEAR SIZED TO FIT IN THE AVAILABLE SPACE IN THE ELECTRIC ROOM. REFER TO ARCHITECTURAL PLANS FOR DIMENSIONAL INFORMATION NOT SHOWN ON THE ELECTRICAL PLANS. CONTRACTOR SHALL SUBMIT A 1/4" SCALE DRAWING OF ALL SWITCHGEAR, AND TERMINATION CABINETS ON FLOOR PLAN WITH SUBMITTAL.
- ALL BOXES AND ENCLOSURES (INCLUDING TRANSFER SWITCHES, GENERATORS, AND POWER PANELS) FOR EMERGENCY CIRCUITS SHALL BE PERMANENTLY MARKED SO THEY WILL BE READILY IDENTIFIED AS A COMPONENT OF AN EMERGENCY CIRCUIT OR SYSTEM, PER NEC 700-9(A).
- PER CALIFORNIA TITLE 24 SECTION 130.5, WIRING PROVISIONS HAVE BEEN MADE FOR DESEGREGATION OF THE ELECTRICAL CIRCUITS. THE OPTIONAL METERING HAS NOT BEEN PROVIDED FOR THIS PROJECT.
- REFER TO PANEL SCHEDULES FOR INDIVIDUAL BRANCH CIRCUIT VOLTAGE DROP AND SINGLE LINE DIAGRAM FOR FEEDER VOLTAGE DROP CALCULATIONS.
- BRANCH CIRCUIT/FEEDER DISTANCE IS SHOWN FOR REFERENCE ONLY AS THE BASIS OF VOLTAGE DROP CALCULATIONS. CONDUCTOR DISTANCE AS INDICATED SHALL NOT BE USED FOR BIDDING/CONSTRUCTION PURPOSES. SHOULD THE FEEDER DISTANCE EXCEED THE LENGTH NOTED PER INSTALLATION CONDITIONS, NOTIFY THE ENGINEER OF RECORD. TYPICAL.



EXISTING SINGLE LINE DIAGRAM



PROPOSED SINGLE LINE DIAGRAM

REFERENCE NOTES

1. OWNER FURNISHED, CONTRACTOR INSTALLED SWITCHBOARD.
2. REPLACE TRIP UNIT WITH TRIP RATING AS INDICATED.
3. FUSE HOLDER TO BE RATED FOR 125A, OVERSIZE CABINET TO ACCOMMODATE FUTURE 125A FUSE, AND NEMA SIZE 3 STARTER, CONTACTOR AND OVERLOADS. REFER TO SHEET E4 FOR PUMP CONTROL SCHEMATIC.
4. EXISTING LOAD TO BE RECONNECTED TO NEW SWITCHBOARD.
5. RECONNECT TO EXISTING GROUND SYSTEM.



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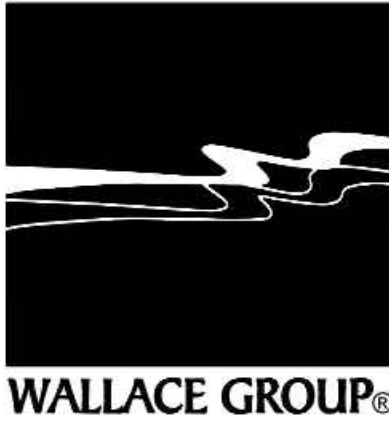
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MARINA COAST WATER DISTRICT
RESERVATION ROAD DESAL PLANT RENOVATION
SINGLE LINE DIAGRAM

JOB #: 25-014
DESIGNERS: OTTO
DRAWN BY: OTTO
DATE: 11/19/2025
DRAWING NO.

E-1.0

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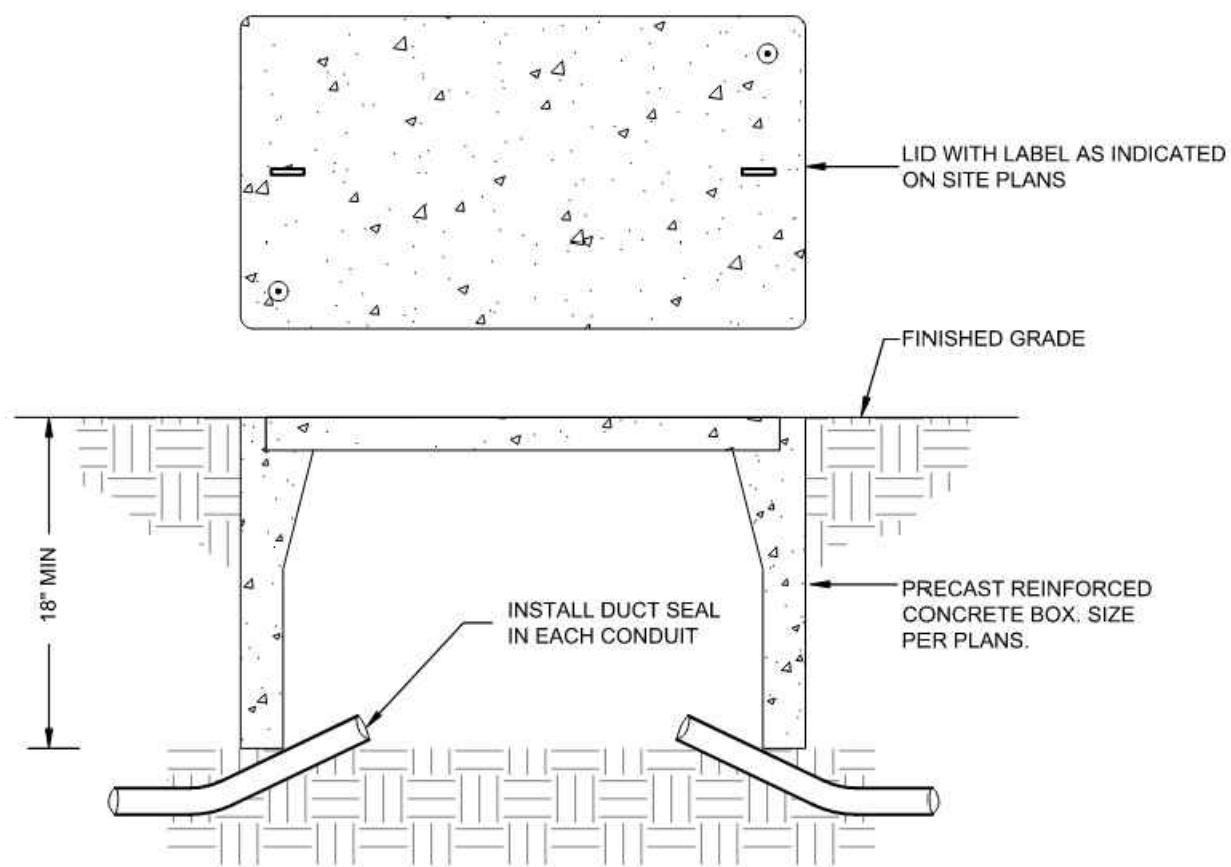
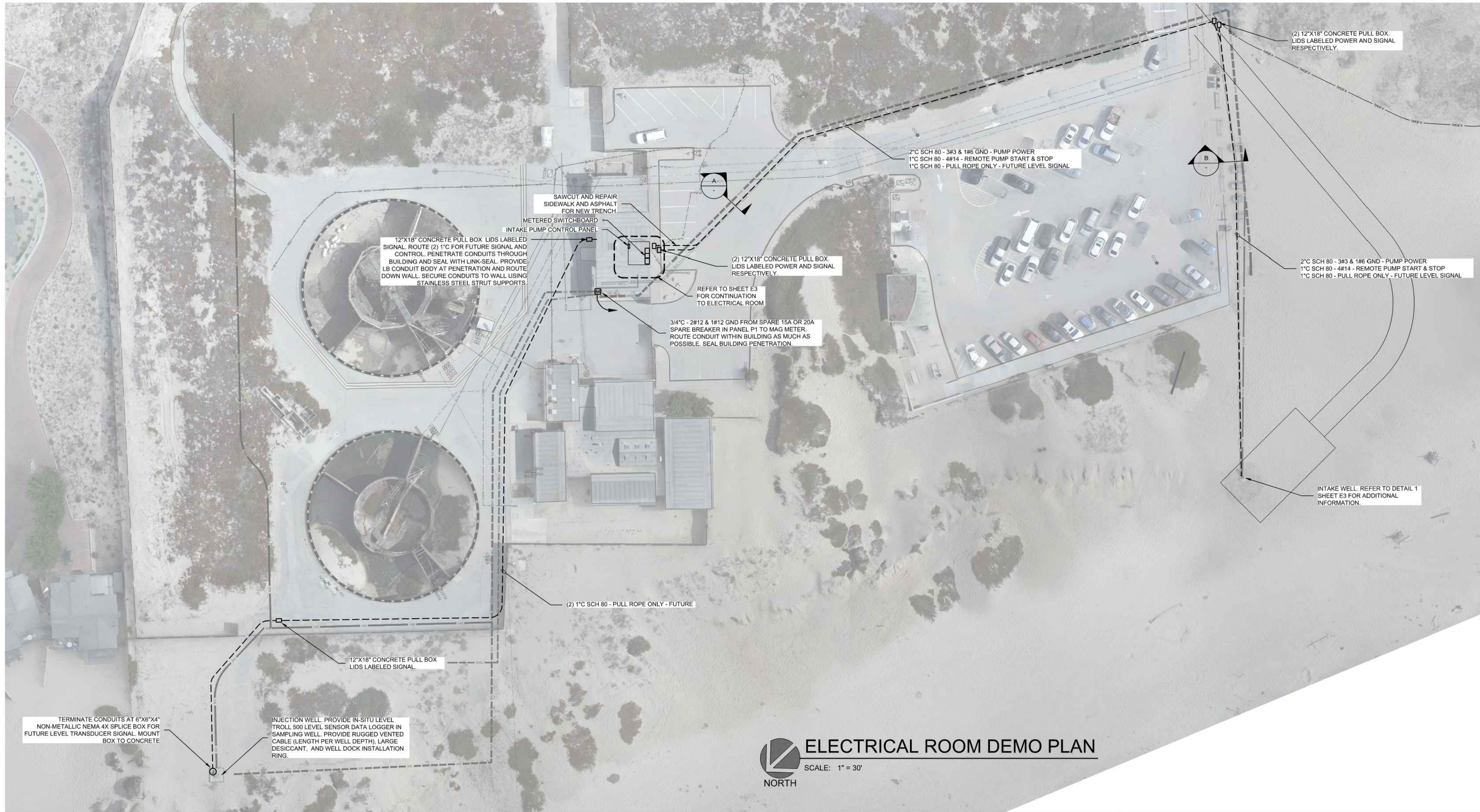
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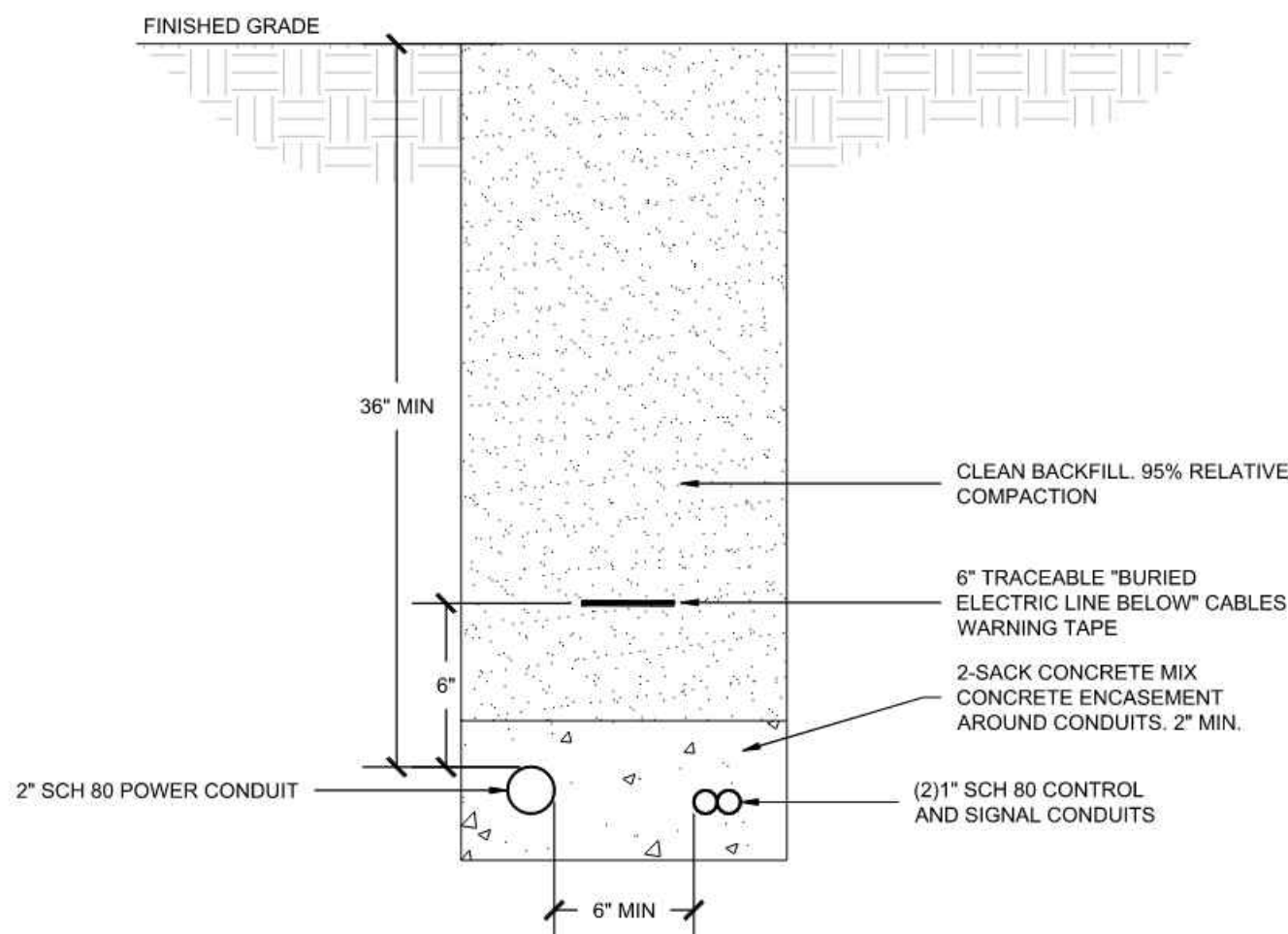
MARINA COAST WATER DISTRICT
RESERVATION ROAD DESAL PLANT RENOVATION
SITE ELECTRICAL PLAN

JOB #: 25-014
DESIGNERS: OTTO
DRAWN BY: OTTO
DATE: 11/19/2025

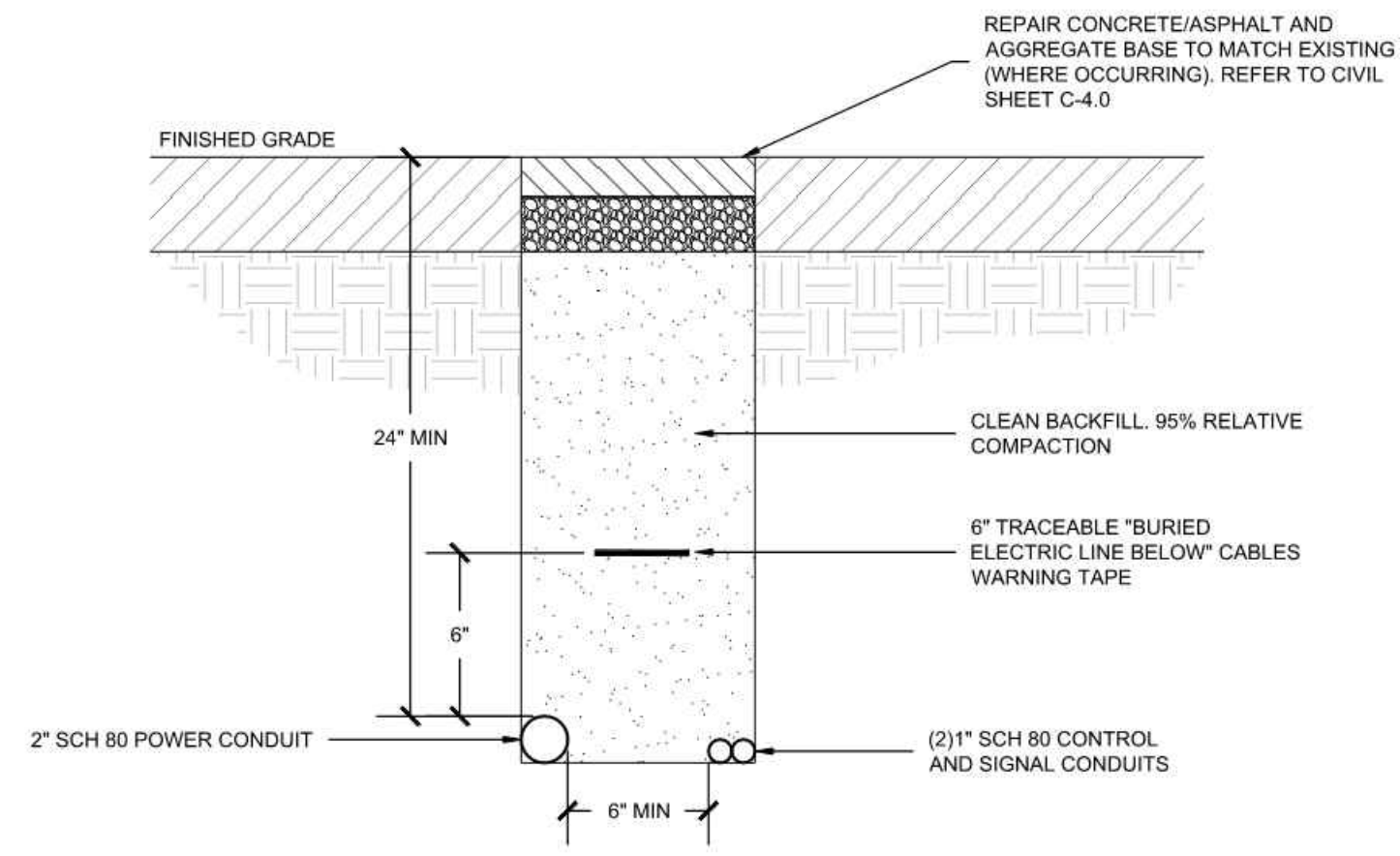
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16 OF 18 SHEETS



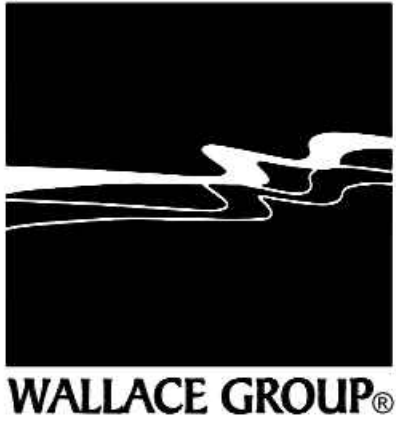
C TYPICAL PULL BOX DETAIL
SCALE: NTS



B TRENCH SECTION DETAIL B
SCALE: NTS



A TRENCH SECTION DETAIL A
SCALE: NTS



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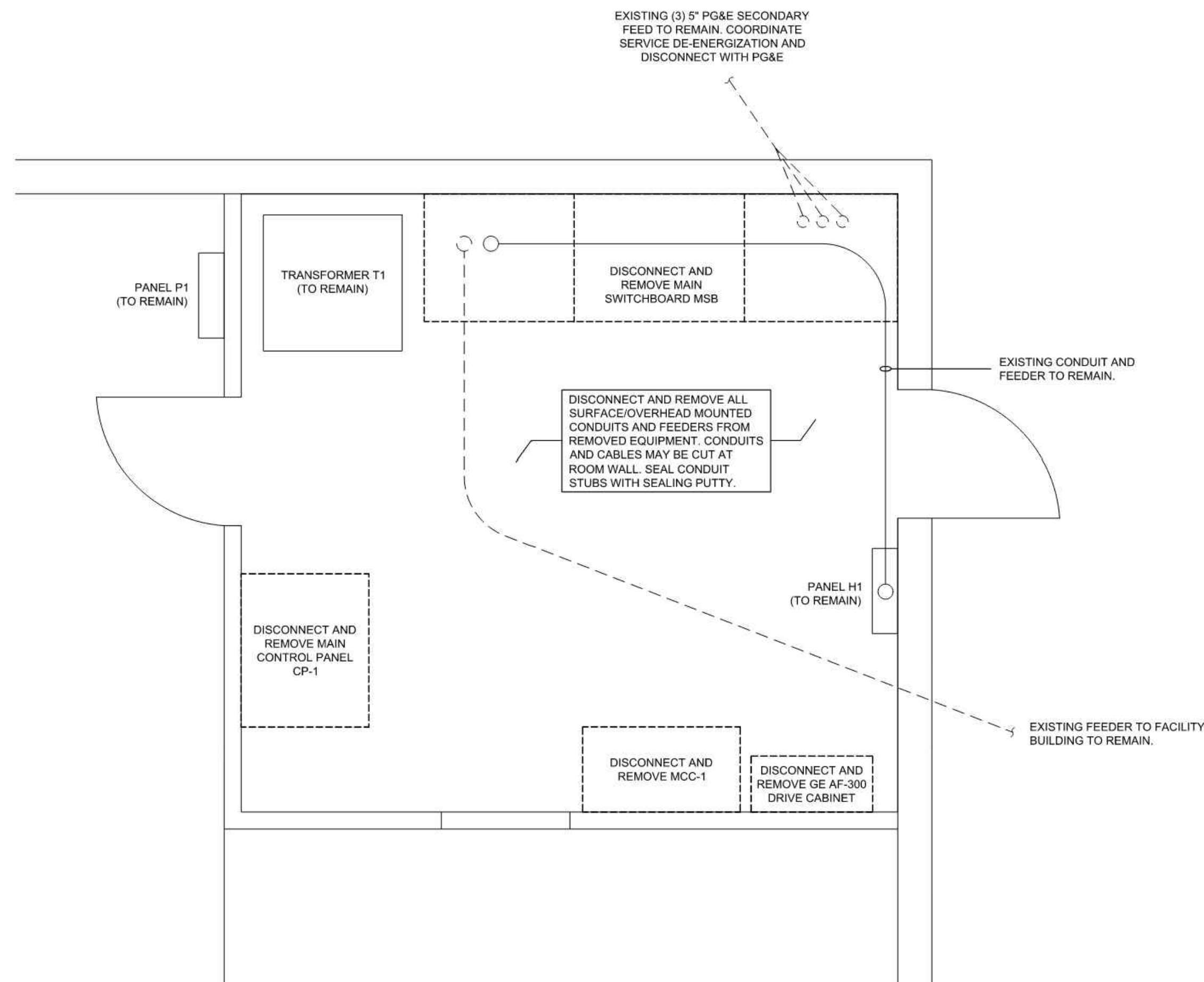
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MARINA COAST WATER DISTRICT
RESERVATION ROAD DESAL PLANT RENOVATION
ELECTRICAL ROOM PLAN

JOB #: 25-014
DESIGNERS: OTTO
DRAWN BY: OTTO
DATE: 11/19/2025
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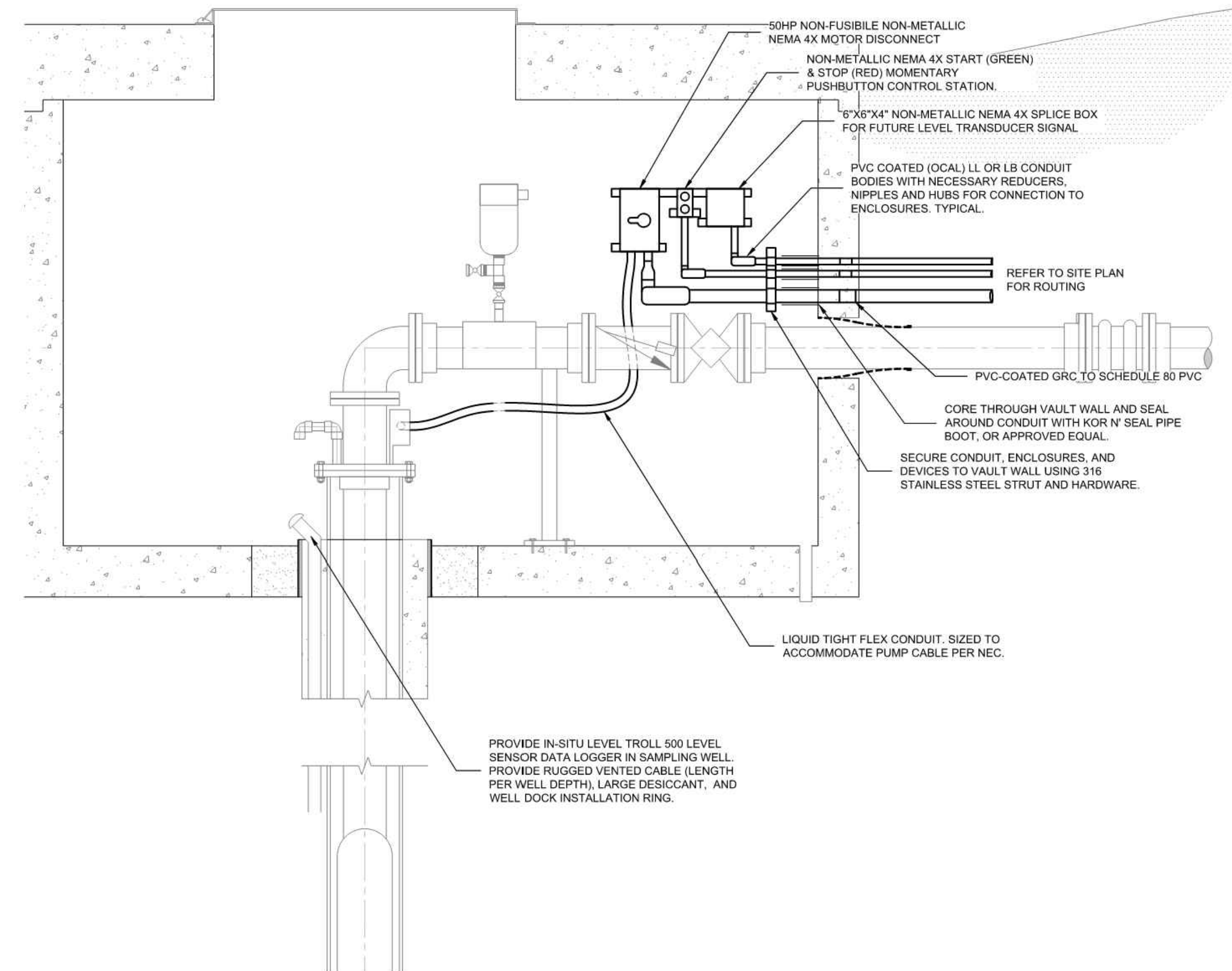
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ELECTRICAL ROOM DEMO PLAN

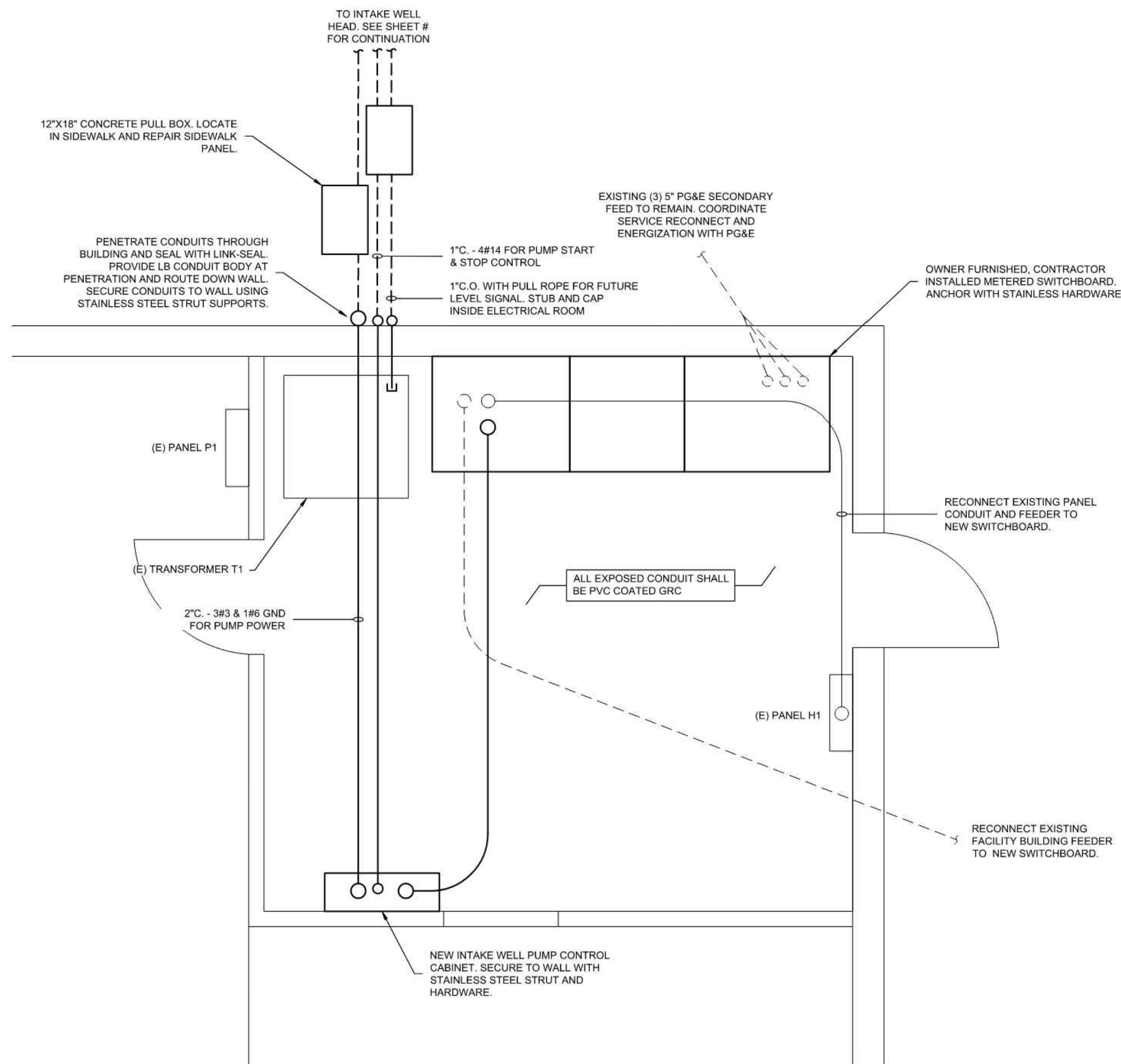
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1

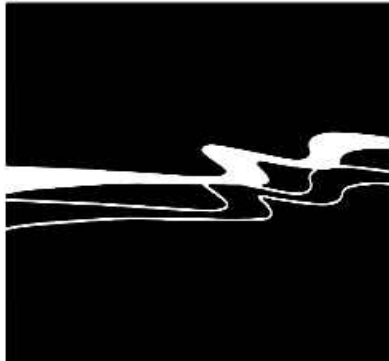
INTAKE WELL ELEVATION DETAIL

SCALE:



ELECTRICAL ROOM PROPOSED PLAN

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



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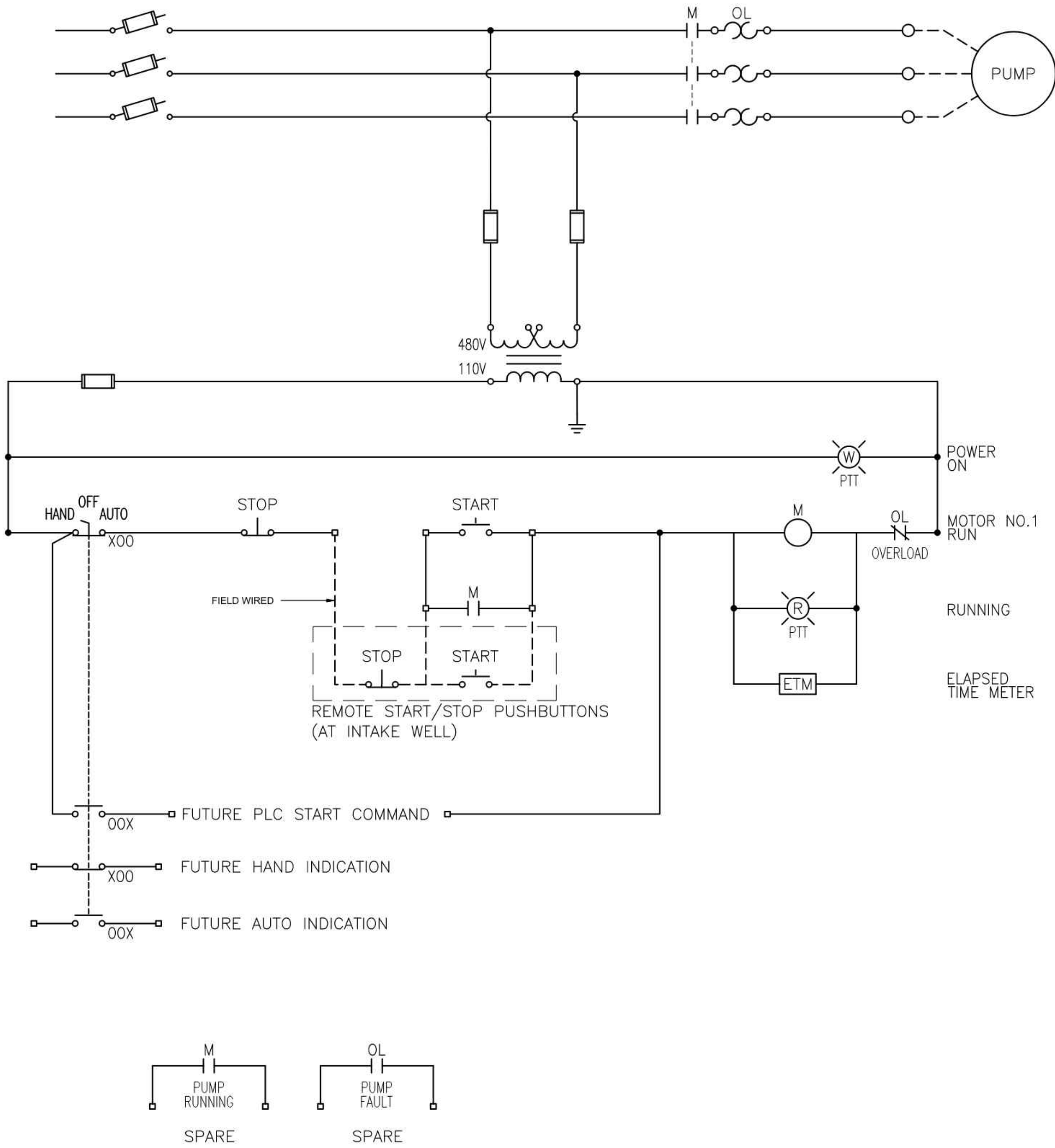
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MARINA COAST WATER DISTRICT
RESERVATION ROAD DESAL PLANT RENOVATION
PUMP CONTROL SCHEMATIC

JOB #: 25-014
DESIGNERS: OTTO
DRAWN BY: OTTO
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PUMP CONTROL SCHEMATIC