

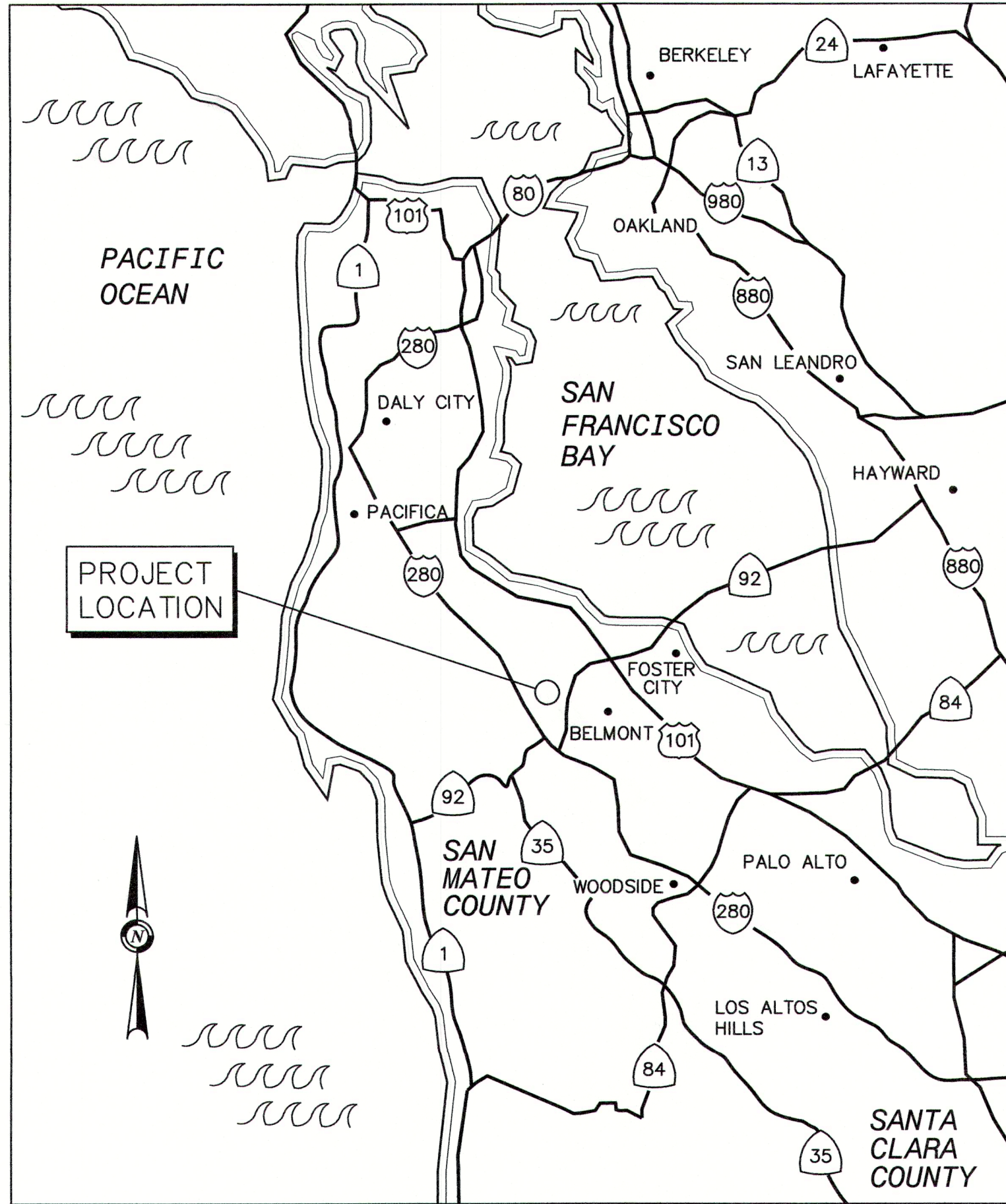


DEKOVEN TANKS REPLACEMENT

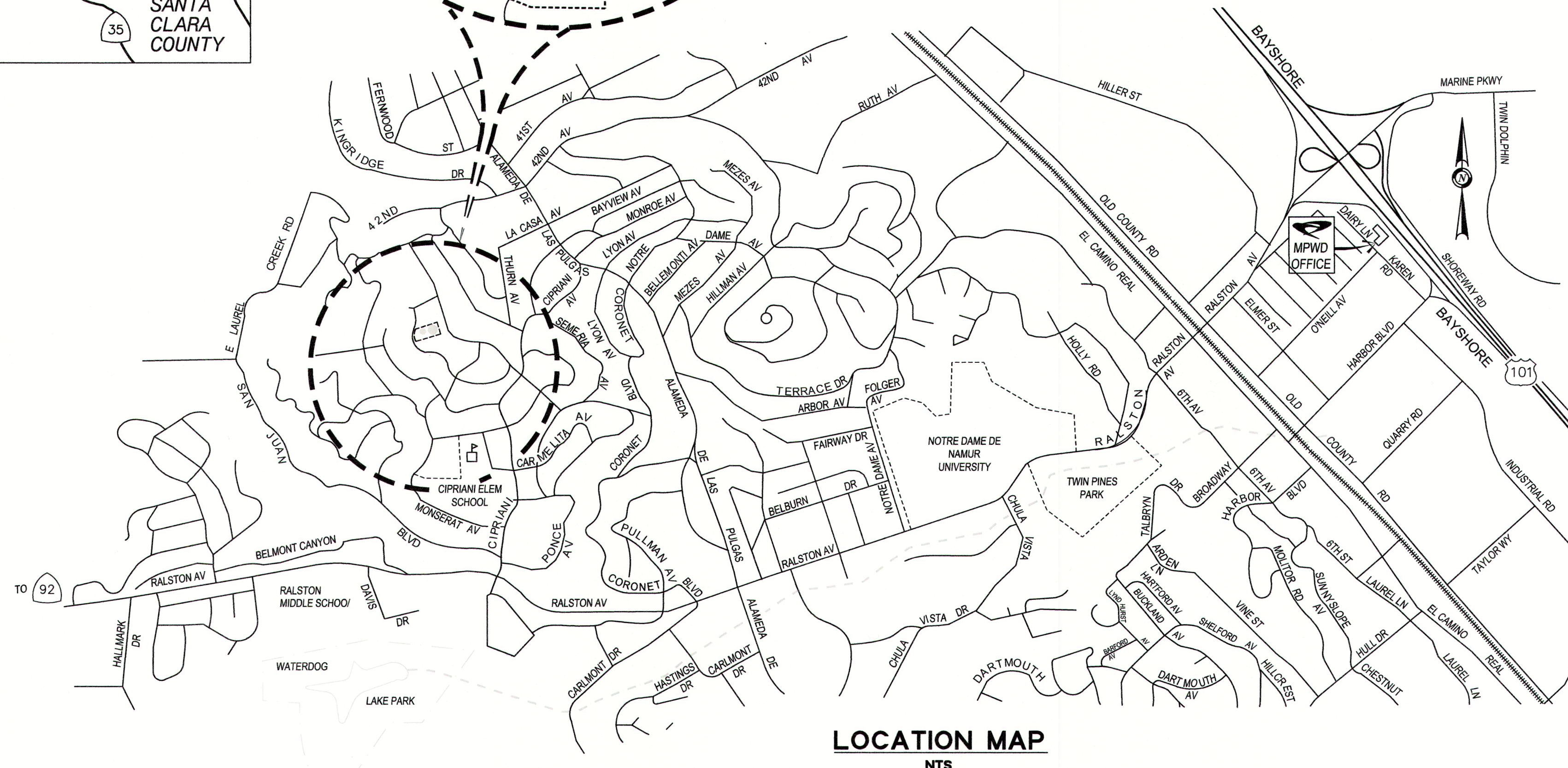
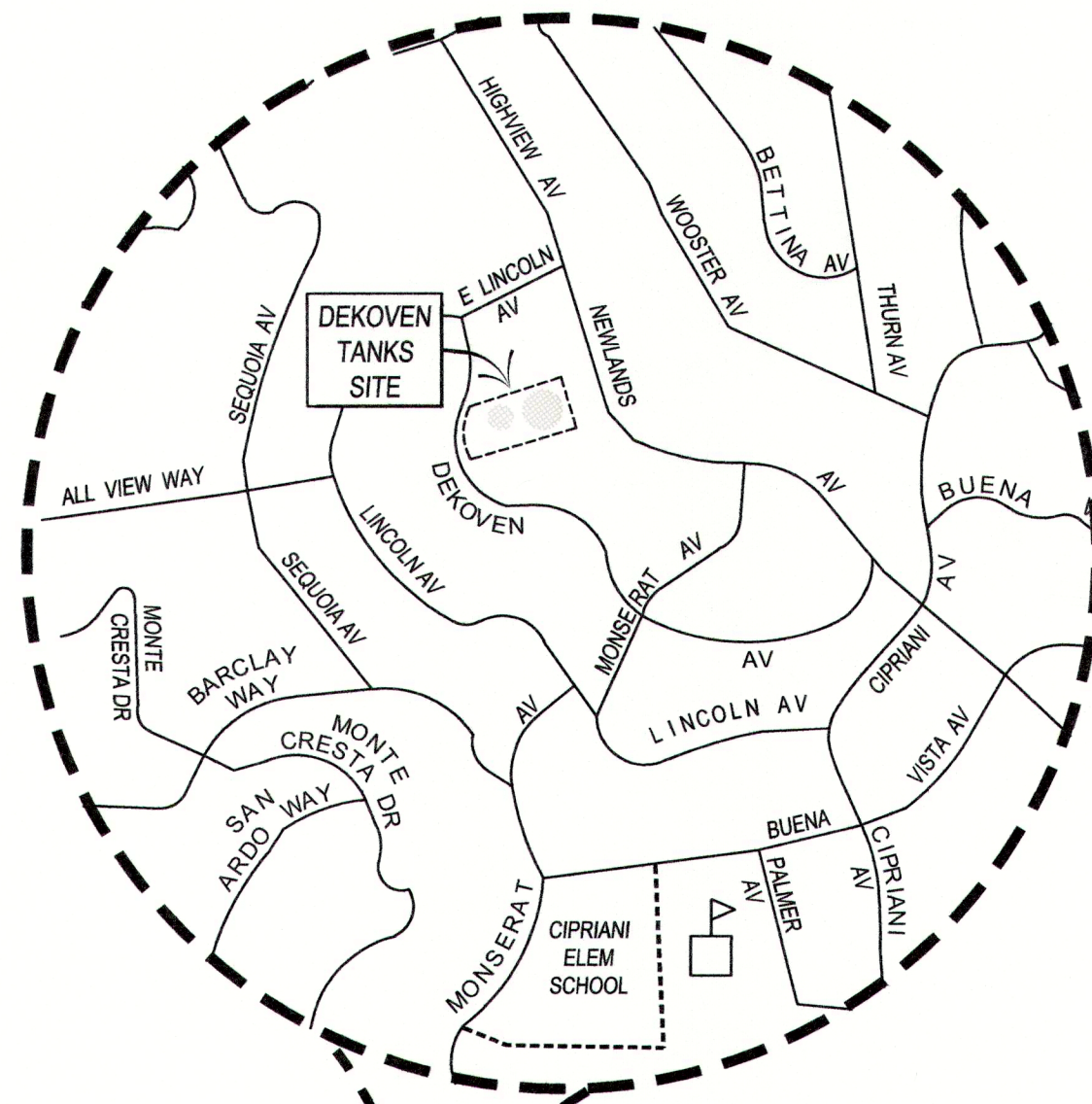
MID-PENINSULA WATER DISTRICT - SAN MATEO COUNTY, CA

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VICINITY MAP
NTS



LOCATION MAP
NTS

BOARD OF DIRECTORS AND STAFF

- PRESIDENT, BRIAN SCHMIDT
- VICE PRESIDENT, KIRK R WHEELER
- DIRECTOR, LOUIS VELLA
- DIRECTOR, DAVE WARDEN
- DIRECTOR, MATHEW P ZUCCA
- GENERAL MANAGER, TAMMY RUDOCK
- OPERATIONS MANAGER, RENE A RAMIREZ
- DISTRICT ENGINEER, JOUBIN PAKPOUR, P.E.
- DISTRICT ATTORNEY, JULIE SHERMAN
- DISTRICT SECRETARY, CANDY PIÑA

BASIS OF BEARINGS

BASIS OF BEARINGS FOR THIS SURVEY IS GRID BEARINGS, CALIFORNIA STATE PLAN COORDINATES, ZONE 3, AS ESTABLISHED BY OPUS SOLUTION.

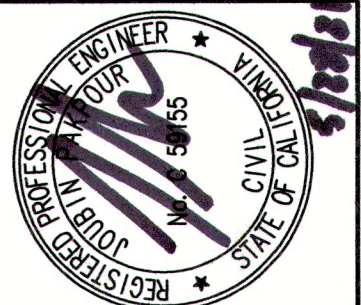
BENCHMARK

ELEVATIONS SHOWN ARE BASED ON NVGD 88 DATUM. PROJECT BENCHMARKS ARE AS SHOWN AND NOTED ON PLAN.

REVIEWED AND APPROVED BY

Tammy Rudock 5/27/2021
TAMMY RUDOCK
GENERAL MANAGER
MID-PENINSULA WATER DISTRICT

REVISIONS



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APPROVED: JOUBIN PAKPOUR

DRAWN: VICTOR FUNG
DESIGNED: VICTOR FUNG

MID-PENINSULA WATER DISTRICT
DEKOVEN TANKS REPLACEMENT
TITLE SHEET, SURVEY NOTES, SHEET INDEX
VICINITY AND LOCATION MAPS

| | | | |
|-------------|----------|-------|----------|
| DATE | 05/28/21 | SCALE | AS NOTED |
| PCG JOB NO. | 10012.13 | | |
| PLAN | G1.1 | | |
| SHEET | 1 OF 33 | | |

DRAWING NAME: I:\CADD\2021\210518\160001.DWG
PLOT DATE: 05/28/21, PLOTTED BY: VFW

GENERAL NOTES

- THE DEPICTION OF UNDERGROUND UTILITY LINES ARE BASED UPON ASSUMPTIONS PER U.S.A. MARKINGS OBSERVED IN THE FIELD. NO AS-BUILT UTILITY PLANS WERE PROVIDED FOR VERIFICATION OF THESE UTILITY LOCATIONS. CONTRACTOR TO VERIFY LOCATIONS. UTILITY LOCATIONS AND CLEARANCES ARE APPROXIMATE. CONTACT U.S.A. (CALL 811) 3 DAYS BEFORE EXCAVATION TO MARK EXISTING UTILITIES. THE CONTRACTOR SHALL POTHOLE (POSITIVE LOCATION) FOR UTILITIES SUFFICIENTLY IN ADVANCE OF CONSTRUCTION TO ADJUST THE GRADE OF THE WATER MAIN TO MAINTAIN DESIRED CLEARANCES PER DISTRICT STANDARDS. NO PIPE SHALL BE INSTALLED UNTIL POTHOLING IS COMPLETED. NO ADDITIONAL PAYMENT WILL BE MADE FOR GRADE ADJUSTMENTS OF LESS THAN 24" UNLESS EXTRA MATERIALS ARE REQUIRED SUCH AS FITTINGS OR CONCRETE ENCASUREMENT.
- ALL CONSTRUCTION MUST BE TO THE MID-PENINSULA WATER DISTRICT, CITY OF BELMONT, COUNTY OF SAN MATEO, CALTRANS STANDARDS AND ACCEPTED BY THE DISTRICT. CONTRACTOR IS RESPONSIBLE FOR MAKING ALL ARRANGEMENTS FOR SITE INSPECTIONS AND ENSURING ALL CURRENT STANDARDS FOR THE CITY, COUNTY AND THE DISTRICT ARE FOLLOWED PRIOR TO BEGINNING ANY CONSTRUCTION PHASE.
- DUST CONTROL DURING ALL PHASES OF CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR. IT IS ALSO THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN GOOD HOUSEKEEPING OF (E) IMPROVEMENTS IN THE CONSTRUCTION AREA. CONTRACTOR SHALL PROTECT EXCAVATED SPOILS PER THE WATER POLLUTION CONTROL PLAN AS SPECIFIED IN THE SPECIFICATIONS.
- NO ASPHALT SHALL BE DELIVERED TO THE JOB SITE AFTER 3:00 P.M. ON ANY DAY WITHOUT THE PRIOR WRITTEN APPROVAL OF THE DISTRICT. NO SLURRY SEAL SHALL BE PLACED AFTER 2:00 P.M.
- THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN (TCP) FOR LANE CLOSURE DURING DELIVERY OF MATERIAL, HEAVY EQUIPMENT, AND TIE-IN. TCP SHALL BE PREPARED AND SIGNED BY A TRAFFIC ENGINEER AND SUBMITTED FOR REVIEW BY THE DISTRICT AND CITY. TCP MUST BE REVIEWED PRIOR TO BEGINNING WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO DOCUMENT (E) CONDITIONS PRIOR TO START OF WORK TO SUBSTANTIATE ANY PRE-EXISTING DAMAGE.

DISTRICT REPRESENTATION AND PUBLIC RELATIONS SPECIAL PROVISIONS

- THE CONTRACTOR WILL BE REPRESENTING THE DISTRICT DURING THE COURSE OF THIS PROJECT. CONTRACTOR SHALL ACT AND BEHAVE IN A PROFESSIONAL MATTER AT THE JOB SITE AND WITHIN THE VICINITY AT ALL TIMES. A COPY OF THE COMPANY'S EMPLOYEE AND WORKPLACE HANDBOOK SHALL BE KEPT ON SITE. ANY WORKER(S) NOT ADHERING TO THE POLICY WILL BE ASKED TO BE REMOVED FROM THE PROJECT. THE DISTRICT HAS ZERO TOLERANCE FOR DESTRUCTIVE BEHAVIOR TOWARDS STAFF, WORKERS, AND HOMEOWNERS.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO RESIDENCES AT ALL TIMES.
- WORK HOURS ARE 8:00 AM TO 5:00 PM. GENERATORS AND EQUIPMENT CANNOT BE TURNED ON BEFORE 8:00 AM.
- HOUSEKEEPING: CONTRACTOR SHALL KEEP GARBAGE CONTAINED AND REMOVED FROM THE SITE AT THE END OF EACH DAY.
- THE CONTRACTOR IS RESPONSIBLE FOR THE SAFETY OF THE JOB SITE. SAFETY MEASURES SHALL BE IMPLEMENTED AT THE END OF EACH WORK DAY.

EXISTING UTILITIES AND BURIED STRUCTURES

- CONTRACTOR SHALL SUPPORT (E) UTILITIES EXPOSED DURING CONSTRUCTION TO COMPLETE THE INSTALLATION OF THE WATER MAIN.
- DAMAGE TO UTILITIES, INCLUDING SERVICES AND LATERALS, RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE REPORTED IMMEDIATELY TO THE CITY AND UTILITY OWNER, AND SHALL BE IMMEDIATELY REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE DISTRICT. COSTS INCURRED BY UTILITY SERVICE INTERRUPTION RESULTING FROM THE CONTRACTOR'S OPERATION SHALL ALSO BE ENTIRELY REIMBURSED BY THE CONTRACTOR.
- BIDDERS SHOULD NOTE THE PRESENCE OF OVERHEAD UTILITIES IN THE WORK AREA FROM THE FREEWAY TO THE JOB SITE. AS PART OF THEIR PRE-BID WALK, BIDDERS SHALL NOTE THE HEIGHT OF THE OVERHEAD UTILITIES IN THE PROPOSED WORK AREA. BIDDERS SHALL INCLUDE PROVISIONS WORKING AROUND THE AREAS IN THEIR BID PRICES. NO ADDITIONAL COMPENSATION IS ALLOWED.

WATER INSTALLATION NOTES

- ALL NEW WATER MAIN, INCLUDING TIE-INS, SHALL BE CONSTRUCTED ENTIRELY OF CLASS 350 DUCTILE IRON PIPE. PIPE AND FITTINGS SHALL ALL HAVE RESTRAINED OR MECHANICAL JOINTS (WITH MEGALUGS RESTRAINTS) AT ALL FITTINGS, HYDRANT RUNS, AND TIE-INS. PIPE BONDING REQUIRED AT NEW WATER MAIN PER PLANS C1.8-C1.9.
- TIE-INS ARE DIAGRAMMATIC. THE CONTRACTOR SHALL NOT BE ENTITLED TO EXTRA PAYMENT IF ADDITIONAL PIPE, COUPLINGS, SLEEVES OR OTHER APPURTENANCES ARE REQUIRED TO COMPLETE A TIE-IN.
- PIPE BEDDING AND TRENCH BACKFILL SHALL BE IN ACCORDANCE WITH DETAILS 2 AND 3 ON PLAN C1.6.
- PROCEDURES FOR ABANDONING (E) PIPE ARE INCLUDED IN SECTION 33 14 10 "ABANDONMENT OF EXISTING WATER MAIN FACILITIES" OF THE TECHNICAL SPECIFICATIONS.
- THE WATER SYSTEM SHALL REMAIN IN SERVICE THROUGHOUT THE PROJECT. TEMPORARY WATER SHUTDOWN SHALL BE COORDINATED WITH THE DISTRICT AT (650) 591-8941. THE CONTRACTOR SHALL NOT OPERATE ANY DISTRICT OWNED VALVES AND HYDRANTS UNLESS AUTHORIZED BY THE DISTRICT.
- THE CONTRACTOR SHALL NOT OPERATE DISTRICT FACILITIES UNLESS DIRECTED BY THE DISTRICT.
- THE DISTRICT SHALL BE NOTIFIED AT LEAST 72 HOURS IN ADVANCE FOR ANY SCHEDULED TIE-INS. NO TIE-INS OR SHUTDOWNS ARE ALLOWED ON MONDAYS AND FRIDAYS OR THE DAY PRECEDING A HOLIDAY. ONLY TWO SHUT DOWNS PER WEEK ARE ALLOWED.
- THE CONTRACTOR SHALL DESIGNATE A PERSON TO CONTACT SHOULD PROBLEMS OCCUR DURING NON-WORKING HOURS. THE DISTRICT SHALL BE GIVEN THAT PERSON'S NAME AND PHONE NUMBER.
- WATER STRUCTURES REMOVED FROM THE GROUND NOT LIMITED TO FITTINGS, AC PIPE, GATE VALVES, CHECK VALVES, COPPER SERVICE LINES, ETC SHALL BECOME PROPERTY OF THE CONTRACTOR AND DISPOSED OF PROPERLY.
- DEFLECT PIPE JOINTS ±3 DEGREES AS RECOMMENDED BY THE MANUFACTURER TO MAINTAIN ALIGNMENT.
- (E) WATER MAIN ELEVATIONS ARE APPROXIMATE AND BASED ON NEARBY GATE VALVE NUT DEPTHS.
- (E) STORM DRAIN AND SANITARY SEWER MAIN ELEVATIONS ARE APPROXIMATE AND BASED ON NEARBY MANHOLE/CATCH BASIN INVERTS.
- TIE-INS TO (E) WATER MAIN SHALL BE 30" MIN AWAY FROM A SLEEVE OR AS DIRECTED BY THE DISTRICT.
- SHORING IS REQUIRED FOR TRENCH DEPTHS GREATER THAN 5 LF (60").
- NO BENDS OR JOINTS WITHIN 10 LF OF SANITARY SEWER MAIN IS ALLOWED UNLESS OTHERWISE DIRECTED BY THE DISTRICT.

ABBREVIATIONS

| | | | | | |
|----------|----------------------------------|------|-------------------------------|-------|---------------------------|
| ABN | ABANDON | E | EAST / ELECTRIC | PVC | POLYVINYL CHLORIDE |
| AC | ASPHALT CONCRETE | (E) | EXISTING | RC | SERVICE RECONNECTION |
| ACP | ASBESTOS CEMENT PIPE | EB | ELECTRIC BOX | REQD | REQUIRED |
| AD | AREA DRAIN | ED | EDGE | RW | RETAINING WALL |
| A.E. | ANCHOR EASEMENT | ELEC | ELECTRIC | R/W | RIGHT OF WAY |
| API | AMERICAN PETROLEUM INSTITUTE | ELEV | ELEVATION | S | SOUTH |
| APPROX | APPROXIMATE(LY) | EP | EDGE OF PAVEMENT | SC | SERVICE CONNECTION |
| ARV | AIR RELEASE VALVE | ER | EDGE OF ROAD | SD | STORM DRAIN |
| ASMBLY | ASSEMBLY | ETC | ET CETERA | SDCI | STORM DRAIN CURB INLET |
| AVE | AVENUE | EV | ELECTRIC VAULT | SDDI | STORM DRAIN DROP INLET |
| AWWA | AMERICAN WATER WORKS ASSOCIATION | FDC | FIRE UTILITY | SDMH | STORM DRAIN MANHOLE |
| BAB | BACK AC BERM | FH | FIRE HYDRANT | SRV | SERVICE |
| BEG | BEGINNING | FL | FLOW LINE | SS | SANITARY SEWER |
| BF | BOTTOM FACE | FL | FLANGE | SSMH | SANITARY SEWER MANHOLE |
| BFV | BACKFLOW VALVE | FNC | FENCE | STA | STATION |
| BK | BREAKLINE | FND | FOUND | STD | STANDARD |
| BL | BUILDING | FRP | FIBERGLASS REINFORCED PLASTIC | STL | STEEL |
| BMPs | BEST MANAGEMENT PRACTICES | FT | FEET | SW | SIDEWALK |
| BO | BLOW OFF VALVE | G | GAS | TBC | TOP BACK OF CURB |
| BSW | BACK OF SIDEWALK | GALV | GALVANIZED | TBM | TEMPORARY BENCHMARK |
| BW | BOTTOM OF WALL | GND | GROUND | TBRC | TOP BACK OF ROLL CURB |
| BRC | BACK ROLL CURB | GV | GATE VALVE | TELE | TELEPHONE |
| BRT | BOTTOM OF RETAINING WALL | HYD | HYDRANT | TEMP | TEMPORARY |
| CAV | COMBINATION AIR VALVE | IN | INCHES | TFB | TOP FACE BERM |
| CB | CATCH BASIN | INV | INVERT | TFC | TOP FACE CURB |
| CG | CURB & GUTTER | I/O | INLET/OUTLET | TG | TOP OF GRATE |
| CONC | CONCRETE | IP | IRON PIPE | TOP | TOP OF PIPE |
| CCP | CONCRETE CYLINDER PIPE | JT | JOINT TRENCH | TRANS | TRANSFORMER |
| CIP | CAST IRON PIPE | LA | LANDSCAPE AREA/STRIP | TP | TOP PAVEMENT |
| CL | CL | LF | LINEAR FEET | TW | TOP OF WALL |
| CL/CL | CENTERLINE | LG | LIP OF GUTTER | TYP | TYPICAL |
| CLR | CLEARANCE | MB | MAIL BOX | UB | UTILITY BOX |
| CM | CORRUGATED METAL | MH | MANHOLE | UNK | UNKNOWN |
| CN | CORNER | MIN | MINIMUM | UV | UTILITY VAULT |
| CO | CLEAN OUT | MJ | MECHANICAL JOINT | USA | UNDERGROUND SERVICE ALERT |
| CONC | CONCRETE | MPWD | MID-PENINSULA WATER DISTRICT | VIF | VERIFY IN THE FIELD |
| COMM | COMMUNICATION | MT | METER | VL | VALVE |
| CONN | CONNECTION | N | NORTH | VND | VALVE NUT DEPTH |
| CT | COURT | (N) | NEW | W | WATER |
| CV | CHECK VALVE | NIC | NOT IN CONTRACT | WD | WOOD FENCE |
| CVR | COVER | NTS | NOT TO SCALE | WMB | WATER METER BOX |
| D.E. | DRIVEWAY EASEMENT | NPT | NATIONAL PIPE THREAD | WV | WATER VAULT |
| DET | DETAIL | OD | OUTER DIAMETER | WWT | WATER VAULT |
| DI | DRAIN INLET | OF | OVERFLOW | XING | CROSSING |
| DIA | DIAMETER | PG&E | PACIFIC GAS & ELECTRIC | Z | ZONE |
| DIP | DUCTILE IRON PIPE | PH | POTHOLE | | |
| DT | DIRT | PP | POWER POLE | | |
| DISTRICT | MID-PENINSULA WATER DISTRICT | PRV | PRESSURE REDUCING VALVE | | |
| DR | DRIVE | PUE | PUBLIC UTILITY EASEMENT | | |
| DWY | DRIVEWAY | PVC | POLYVINYL CHLORIDE | | |

LEGEND

PROPOSED

| | |
|--|-------------------------|
| | GATE VALVE |
| | REDUCER |
| | BLOW OFF ASSEMBLY |
| | CONCRETE CAP |
| | NEW WATER MAIN |
| | CONSTRUCTION NOTE |
| | DETAIL REFERENCE NUMBER |
| | PLAN NUMBER |

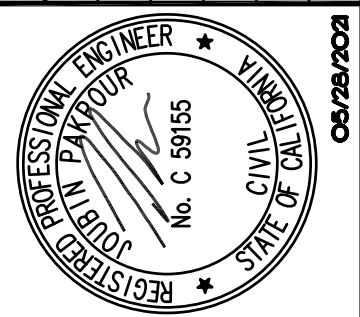
EXISTING

| | |
|--|---|
| | ELECTRIC LINE |
| | GAS LINE |
| | OVERHEAD UTILITIES |
| | STORM DRAIN LINE |
| | SANITARY SEWER LINE |
| | WATER LINE |
| | CHAIN LINK FENCE |
| | WOODEN FENCE |
| | WIRE FENCE |
| | (E) CONTOUR LINE AND ELEVATION |
| | CENTER LINE |
| | RIGHT OF WAY |
| | EDGE OF PAVEMENT |
| | PROPERTY LINE |
| | WATER METER |
| | SEWER MANHOLE |
| | SEWER CLEANOUT |
| | EDGE OF PAVEMENT |
| | UNDERGROUND SERVICE ALERT PAINT MARK - GREEN |
| | UNDERGROUND SERVICE ALERT PAINT MARK - BLUE |
| | UNDERGROUND SERVICE ALERT PAINT MARK - YELLOW |
| | UNDERGROUND SERVICE ALERT PAINT MARK - RED |
| | UNDERGROUND SERVICE ALERT PAINT MARK - ORANGE |
| | TREE & SIZE O=OAK/RW=REDWOOD |



REVISIONS

| NO. | DESCRIPTION | BY | DATE |
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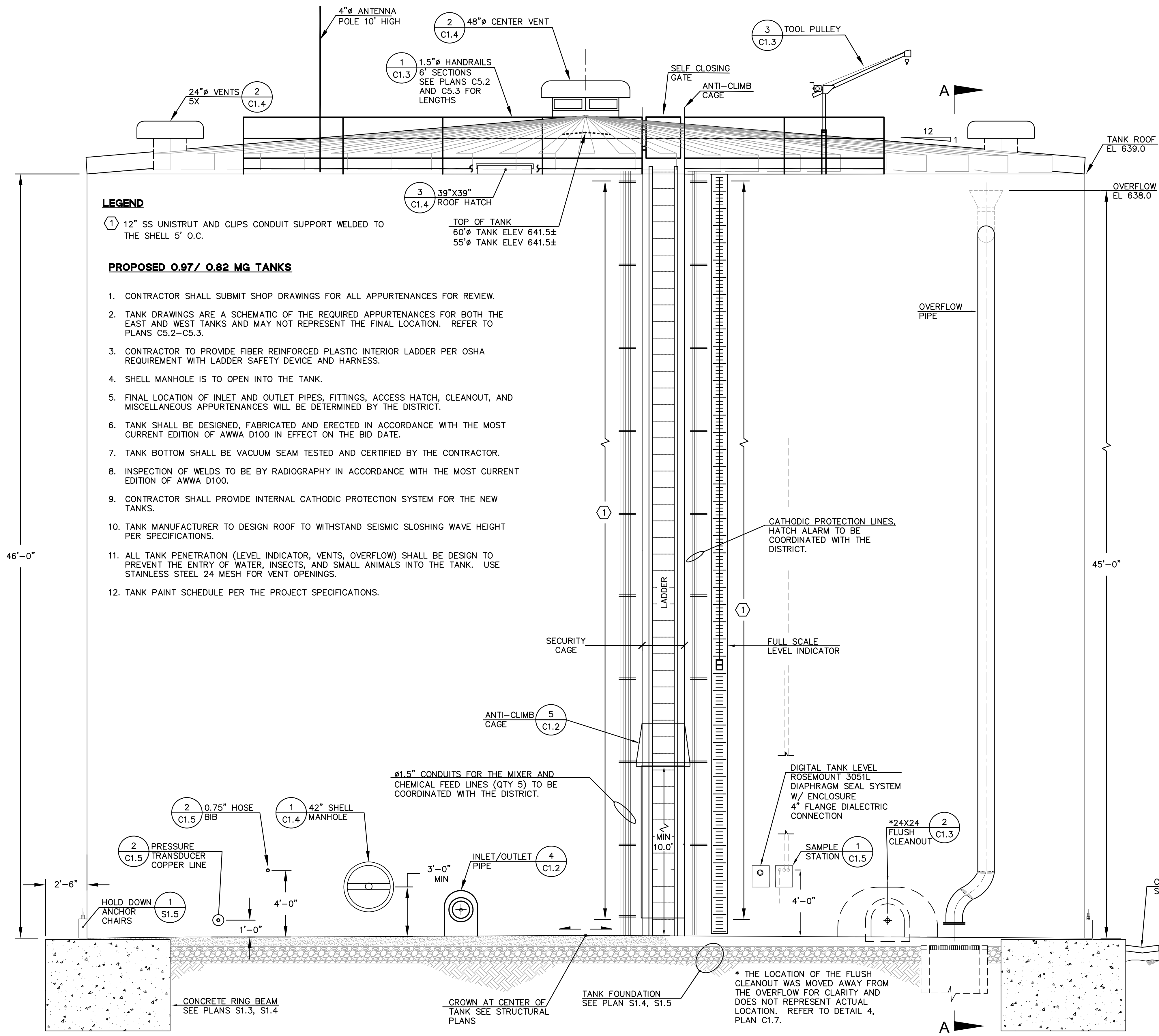
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APPROVED: JOUBIN PAKPOUR

DRAWN: VICTOR FUNG
DESIGNED: VICTOR FUNG

**MID-PENINSULA WATER DISTRICT
DEKOVEN TANKS REPLACEMENT
NOTES, ABBREVIATIONS, LEGEND**

| | | | |
|-------------|----------------|-------|----------|
| DATE | 05/28/21 | SCALE | AS NOTED |
| PCG JOB NO. | 10012.13 | | |
| PLAN | G1.2 | | |
| SHEET | 2 OF 33 | | |



LEGEND

① 12" SS UNISTRUT AND CLIPS CONDUIT SUPPORT WELDED TO THE SHELL 5' O.C.

PROPOSED 0.97/ 0.82 MG TANKS

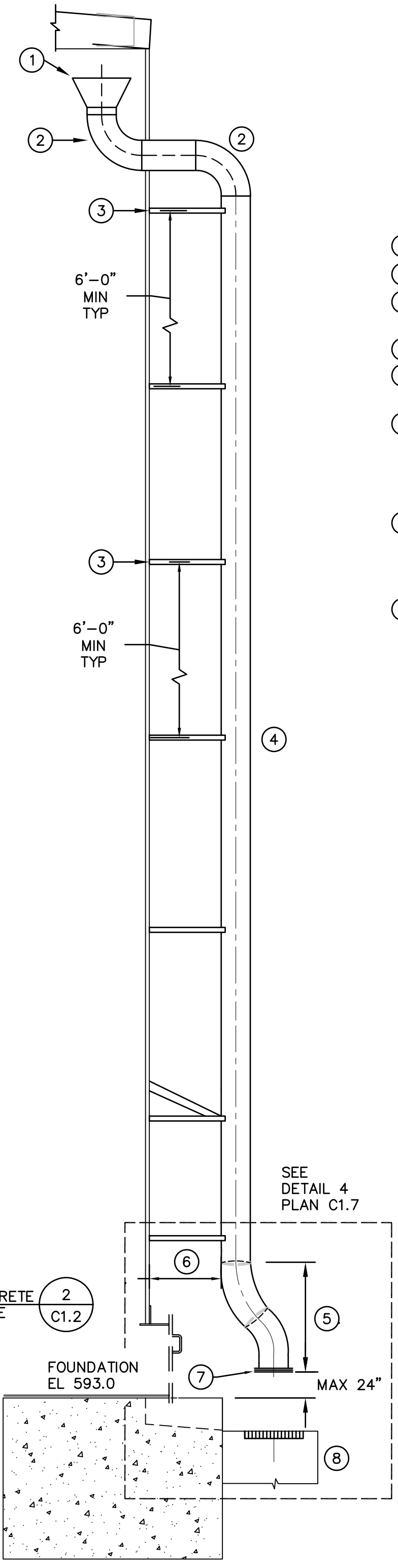
1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL APPURTENANCES FOR REVIEW.
2. TANK DRAWINGS ARE A SCHEMATIC OF THE REQUIRED APPURTENANCES FOR BOTH THE EAST AND WEST TANKS AND MAY NOT REPRESENT THE FINAL LOCATION. REFER TO PLANS C5.2-C5.3.
3. CONTRACTOR TO PROVIDE FIBER REINFORCED PLASTIC INTERIOR LADDER PER OSHA REQUIREMENT WITH LADDER SAFETY DEVICE AND HARNESS.
4. SHELL MANHOLE IS TO OPEN INTO THE TANK.
5. FINAL LOCATION OF INLET AND OUTLET PIPES, FITTINGS, ACCESS HATCH, CLEANOUT, AND MISCELLANEOUS APPURTENANCES WILL BE DETERMINED BY THE DISTRICT.
6. TANK SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE MOST CURRENT EDITION OF AWWA D100 IN EFFECT ON THE BID DATE.
7. TANK BOTTOM SHALL BE VACUUM SEAM TESTED AND CERTIFIED BY THE CONTRACTOR.
8. INSPECTION OF WELDS TO BE BY RADIOGRAPHY IN ACCORDANCE WITH THE MOST CURRENT EDITION OF AWWA D100.
9. CONTRACTOR SHALL PROVIDE INTERNAL CATHODIC PROTECTION SYSTEM FOR THE NEW TANKS.
10. TANK MANUFACTURER TO DESIGN ROOF TO WITHSTAND SEISMIC SLOSHING WAVE HEIGHT PER SPECIFICATIONS.
11. ALL TANK PENETRATION (LEVEL INDICATOR, VENTS, OVERFLOW) SHALL BE DESIGN TO PREVENT THE ENTRY OF WATER, INSECTS, AND SMALL ANIMALS INTO THE TANK. USE STAINLESS STEEL 24 MESH FOR VENT OPENINGS.
12. TANK PAINT SCHEDULE PER THE PROJECT SPECIFICATIONS.

TOP OF TANK
60" TANK ELEV 641.5±
55" TANK ELEV 641.5±

BILL OF MATERIALS

NOTE:

- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE TANK OVERFLOW FOR REVIEW AND APPROVAL. OVERFLOW SHALL BE DESIGNED FOR A MINIMUM FLOW RATE OF 2,000 GPM (MPWD).
- ① PROVIDE CONE SIZE FOR REVIEW.
 - ② 90° ELBOW
 - ③ PIPE SUPPORT 6'-0" OC OR PER THE MANUFACTURER'S RECOMMENDATION.
 - ④ STRAIGHT PIPE
 - ⑤ FIELD FIT - CUT, ALIGN AND OFFSET 2-45° BENDS TO THE MIDDLE OF THE DROP INLET.
 - ⑥ THE OVERFLOW PLACEMENT AND OFFSET SHALL MISS FLUSH CLEANOUT DOOR WHEN FULLY OPEN. COORDINATE THE ALIGNMENT AND PLACEMENT OF THE OVERFLOW WITH THE DISTRICT IN THE FIELD.
 - ⑦ STAINLESS STEEL 24 MESH PRESSED BETWEEN 2-RING PLATES 3/8" THICK, 19" OD X 11" ID WITH 5/8" BOLT HOLES; STAINLESS STEEL HARDWARE
 - ⑧ (N) INLET TO MATCH (E) DROP INLET SIZE BOX.

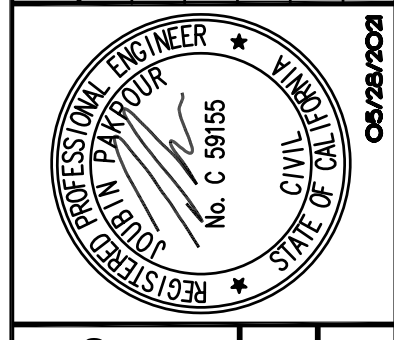


1 EAST AND WEST TANK ELEVATION
SCALE: 1" = 40'

SECTION A-A

REVISIONS

| NO. | DESCRIPTION | BY | DATE | APPVD |
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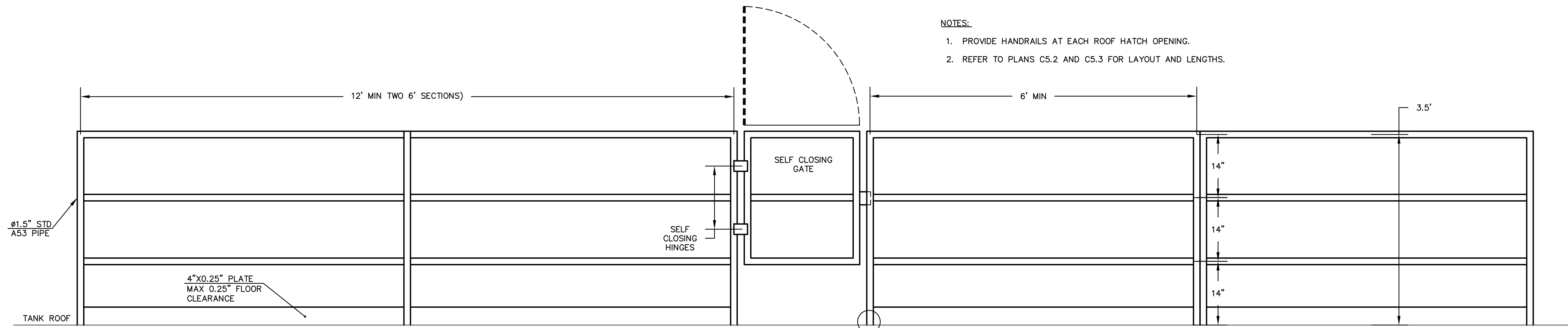
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CHECKED: BRANDON LAURIE
DESIGNED: VICTOR FUNG
APPROVED: JOUBIN PAKPOUR

**MID-PENINSULA WATER DISTRICT
DEKOVEN TANKS REPLACEMENT
EAST AND WEST TANK ELEVATION**

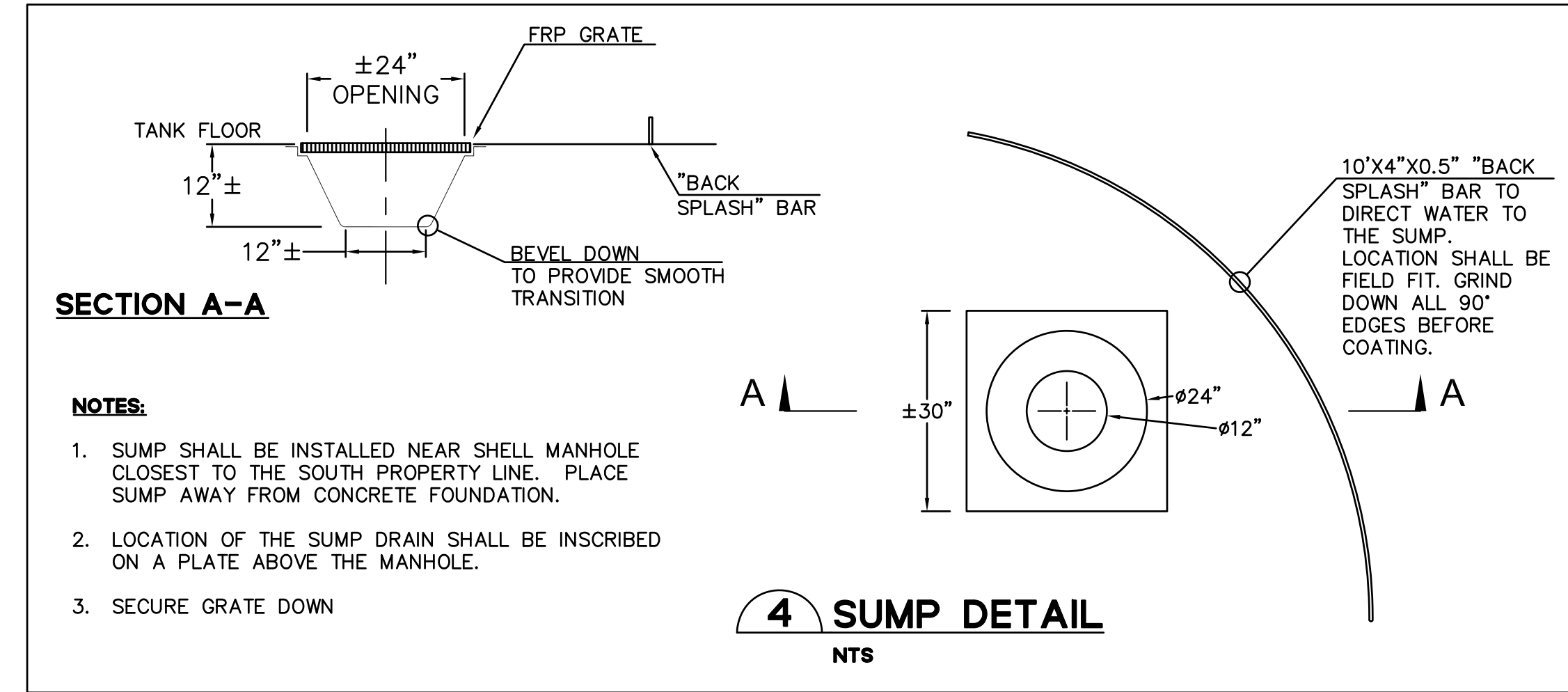
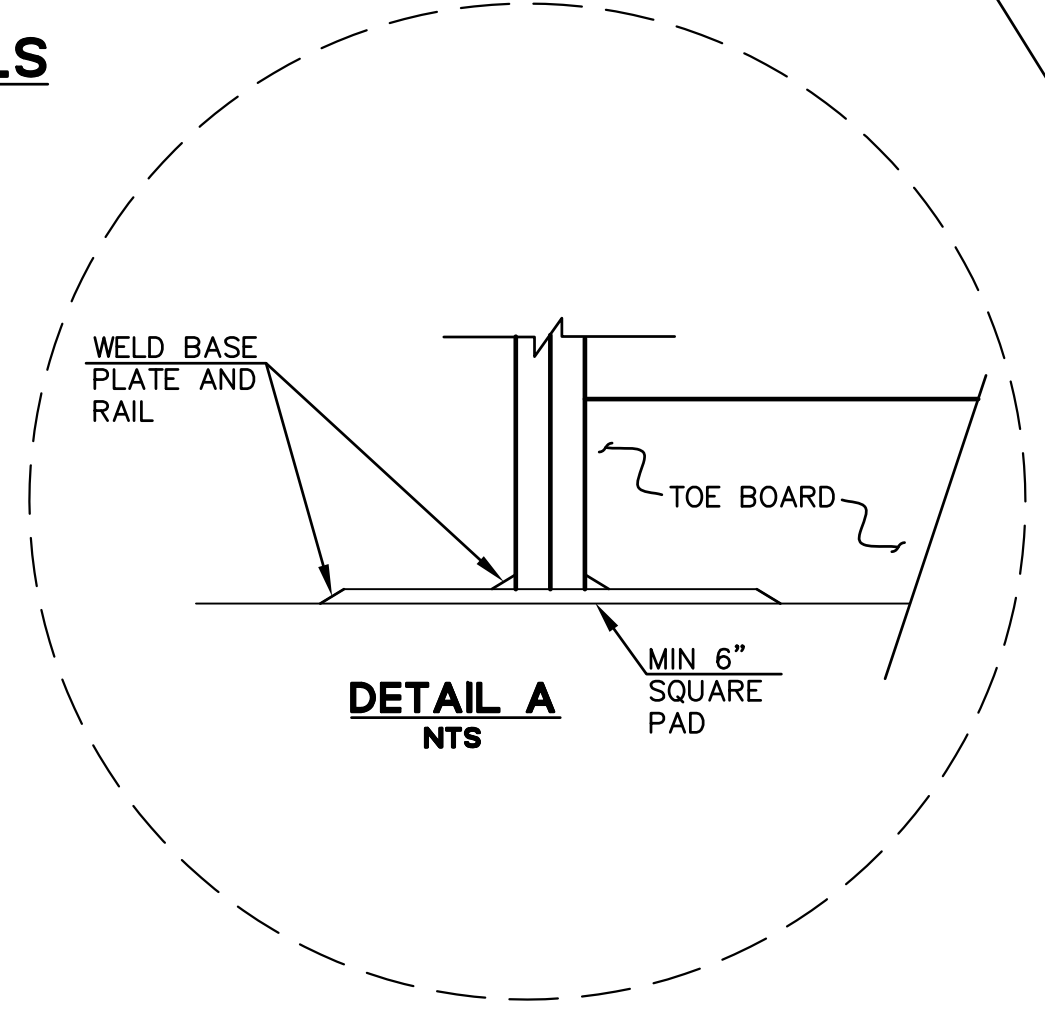
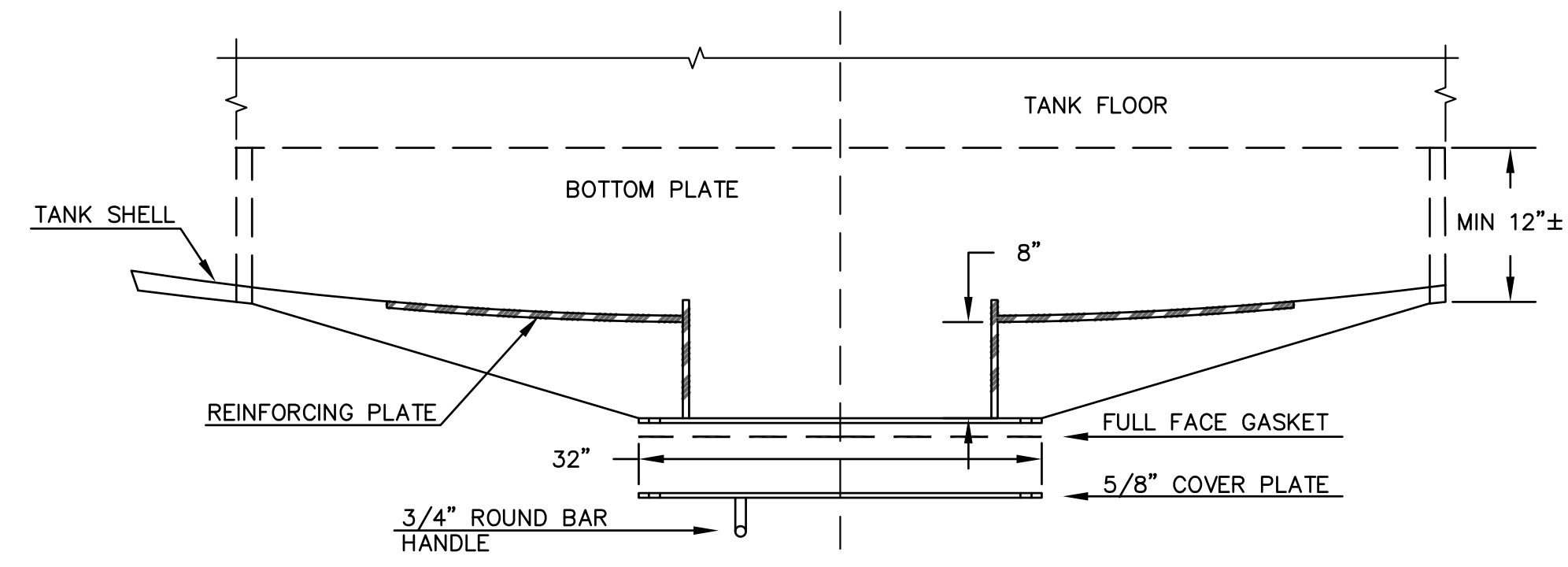
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| DATE | 05/28/21 | SCALE | AS NOTED |
| PCG JOB NO. | 10012.13 | PLAN | C1.1 |
| SHEET | 3 | OF | 33 |

DRAWING NAME: J:\CAD\01\012.13\pwr\mwd03-SKETCH.DWG
PLOT DATE: 05/27/21, PLOTTED BY: VFW

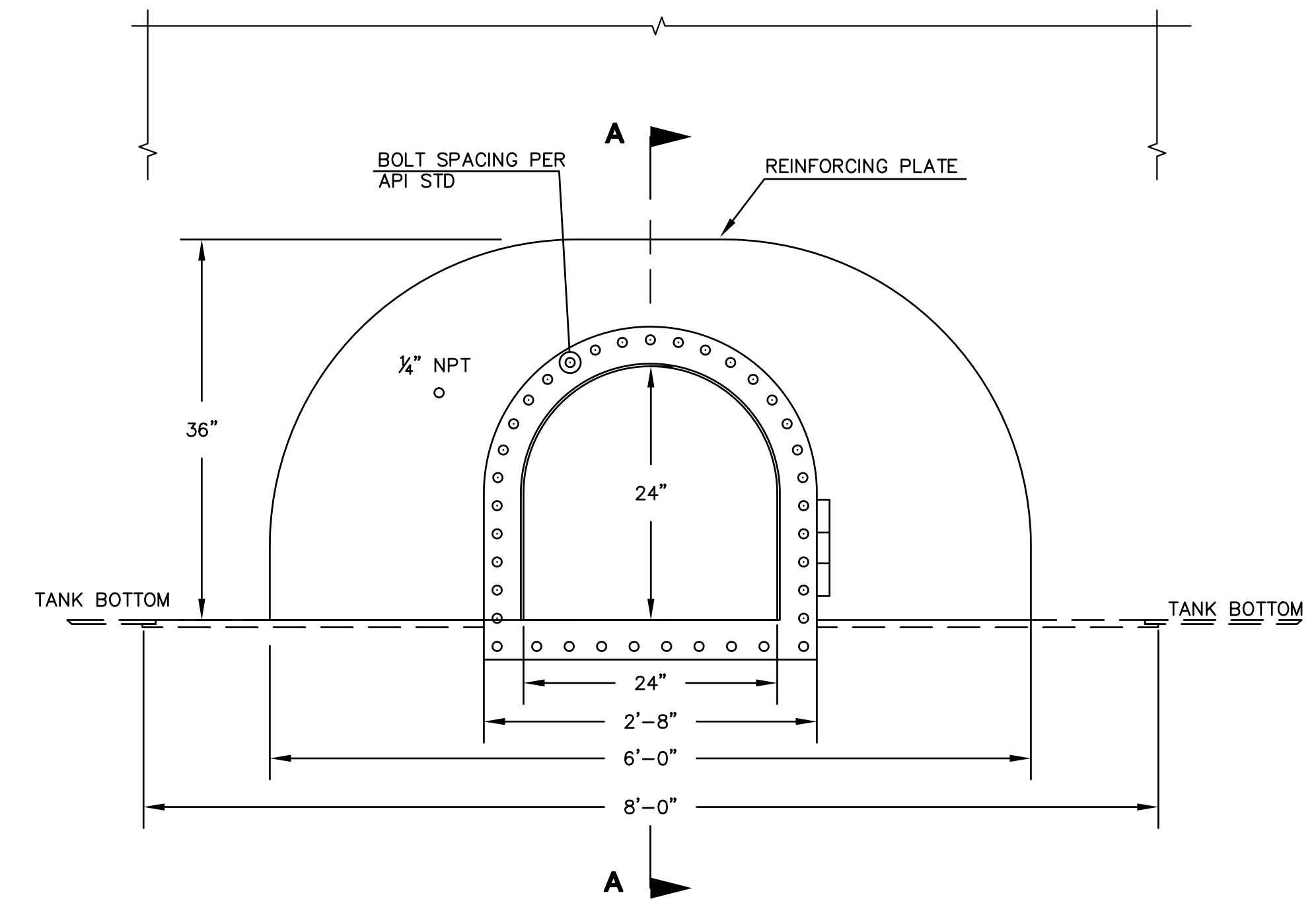


- NOTES:**
1. PROVIDE HANDRAILS AT EACH ROOF HATCH OPENING.
 2. REFER TO PLANS C5.2 AND C5.3 FOR LAYOUT AND LENGTHS.

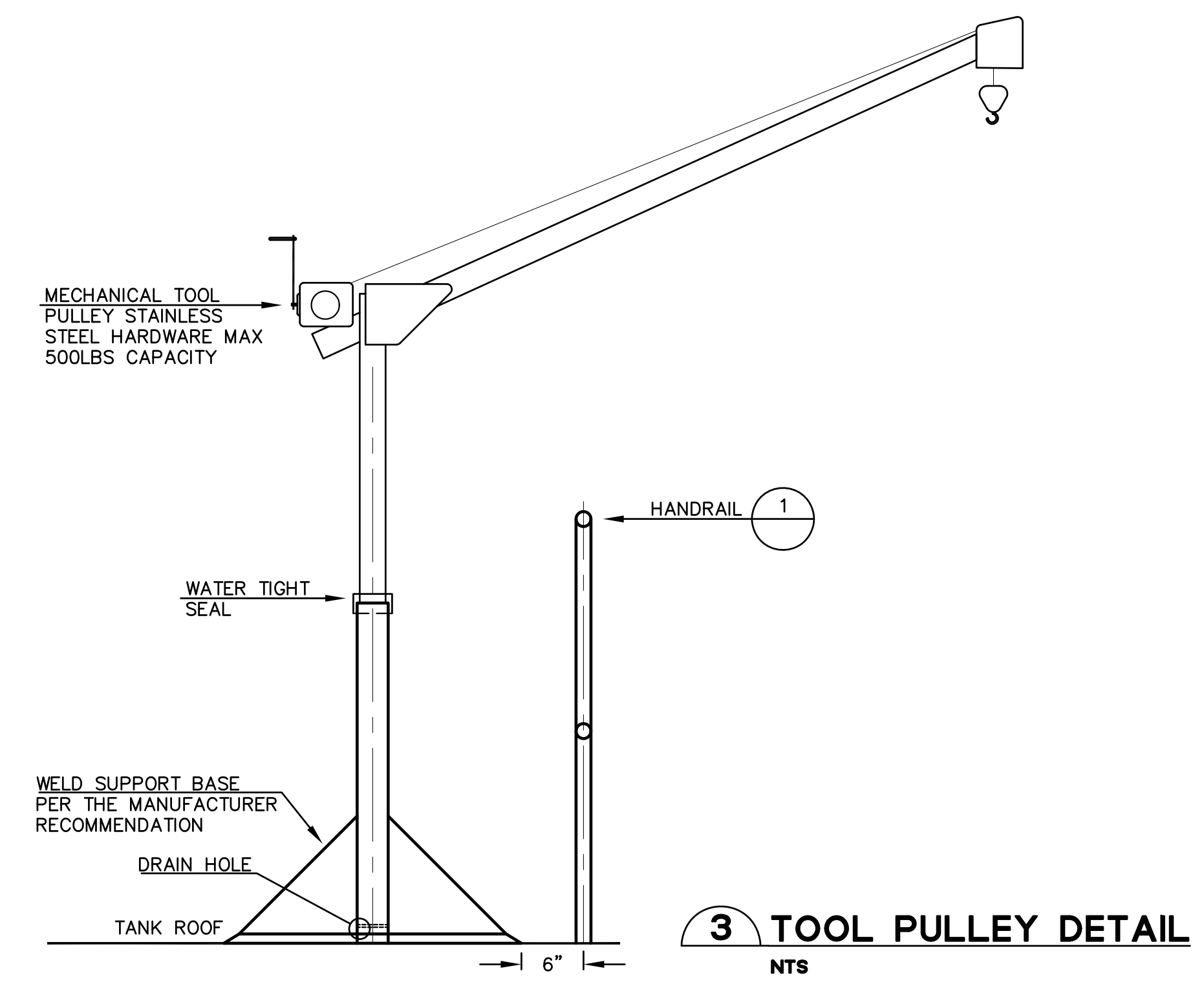
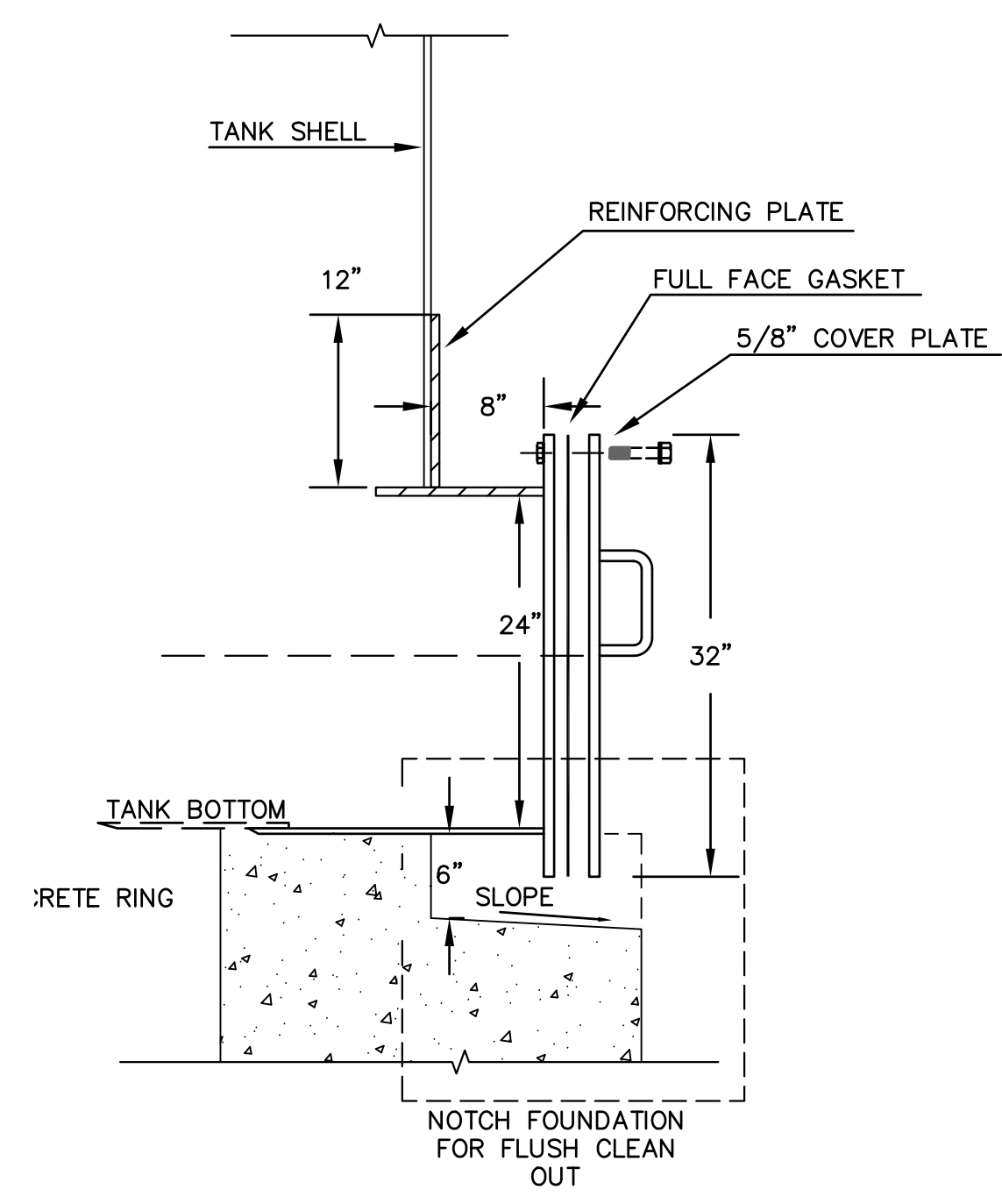
1 HANDRAIL AND SELF-CLOSING GATE DETAILS
NTS



4 SUMP DETAIL
NTS

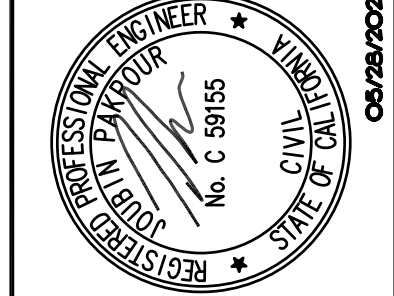


2 24"X24" FLUSH CLEANOUT DETAILS
NTS



3 TOOL PULLEY DETAIL
NTS

| NO. | DESCRIPTION | BY | DATE | APPVD |
|-----|-------------|----|------|-------|
| | | | | |

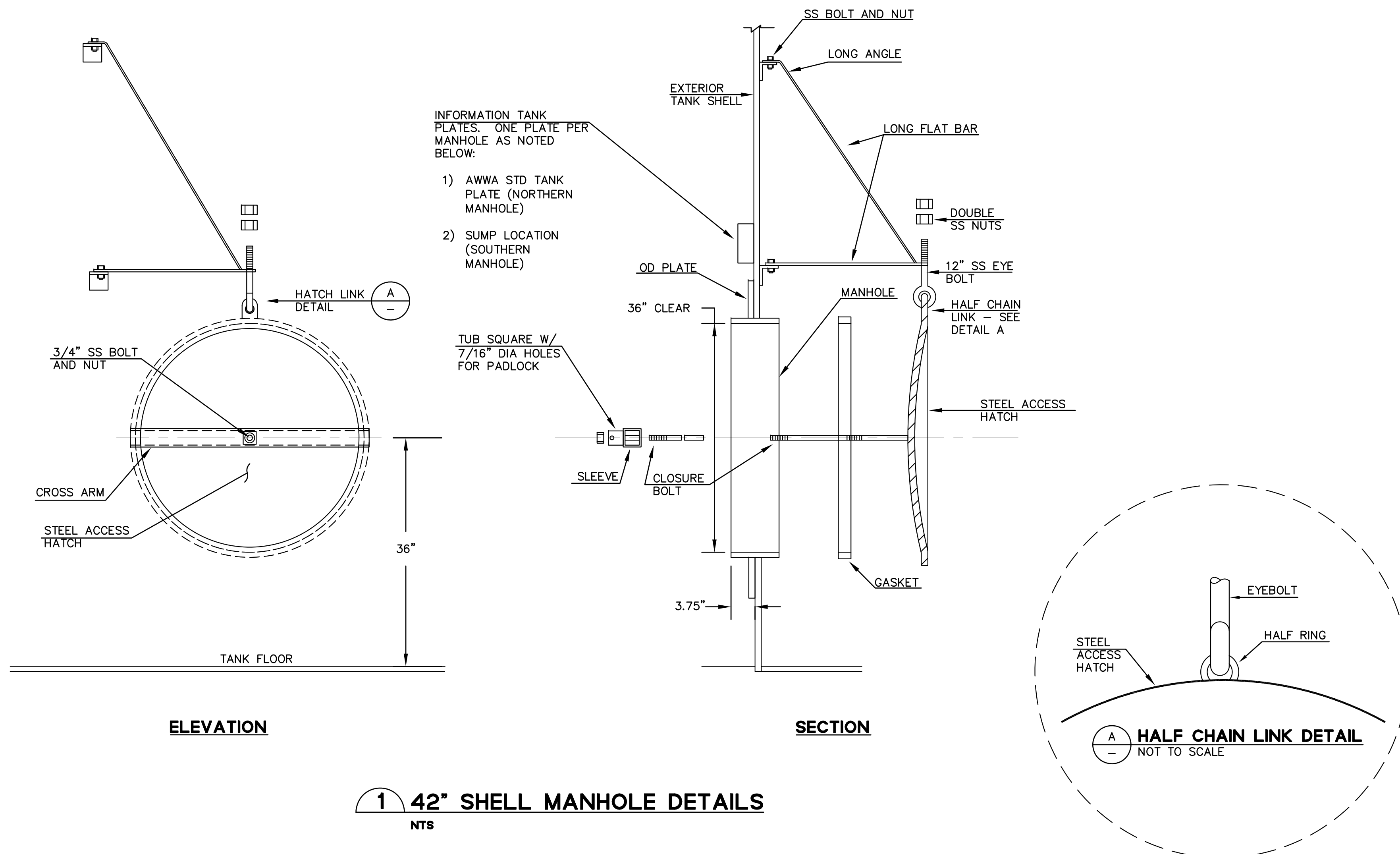


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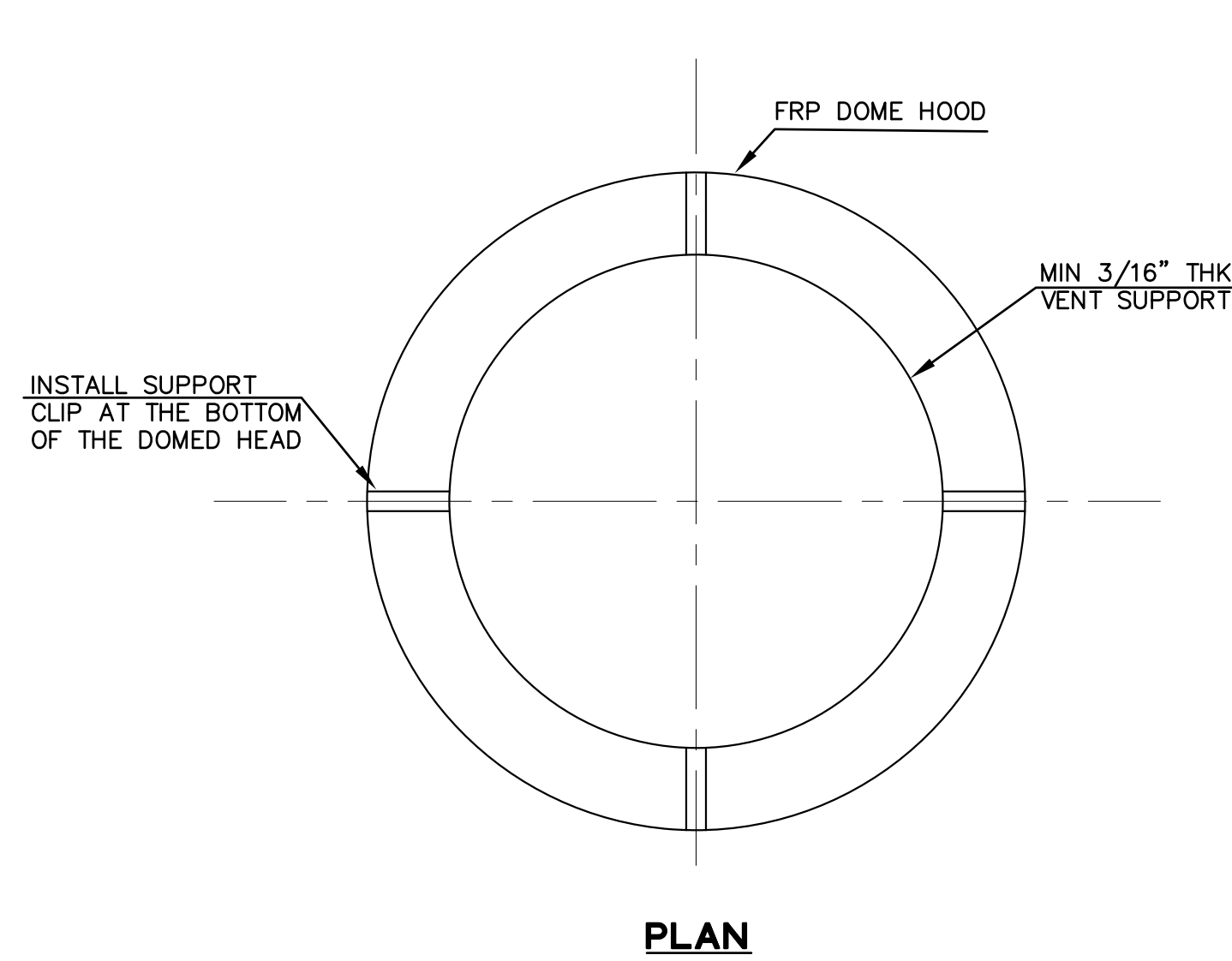
CHECKED: BRANDON LAURIE
DESIGNED: VICTOR FUNG
APPROVED: JOURBIN PAKFOUR

MID-PENINSULA WATER DISTRICT
DEKOVEN TANKS REPLACEMENT
WATER TANK CONSTRUCTION DETAILS

DATE: 05/28/21 SCALE: AS NOTED
PCG JOB NO. 10012.13
PLAN: C13
SHEET: 5 OF 33

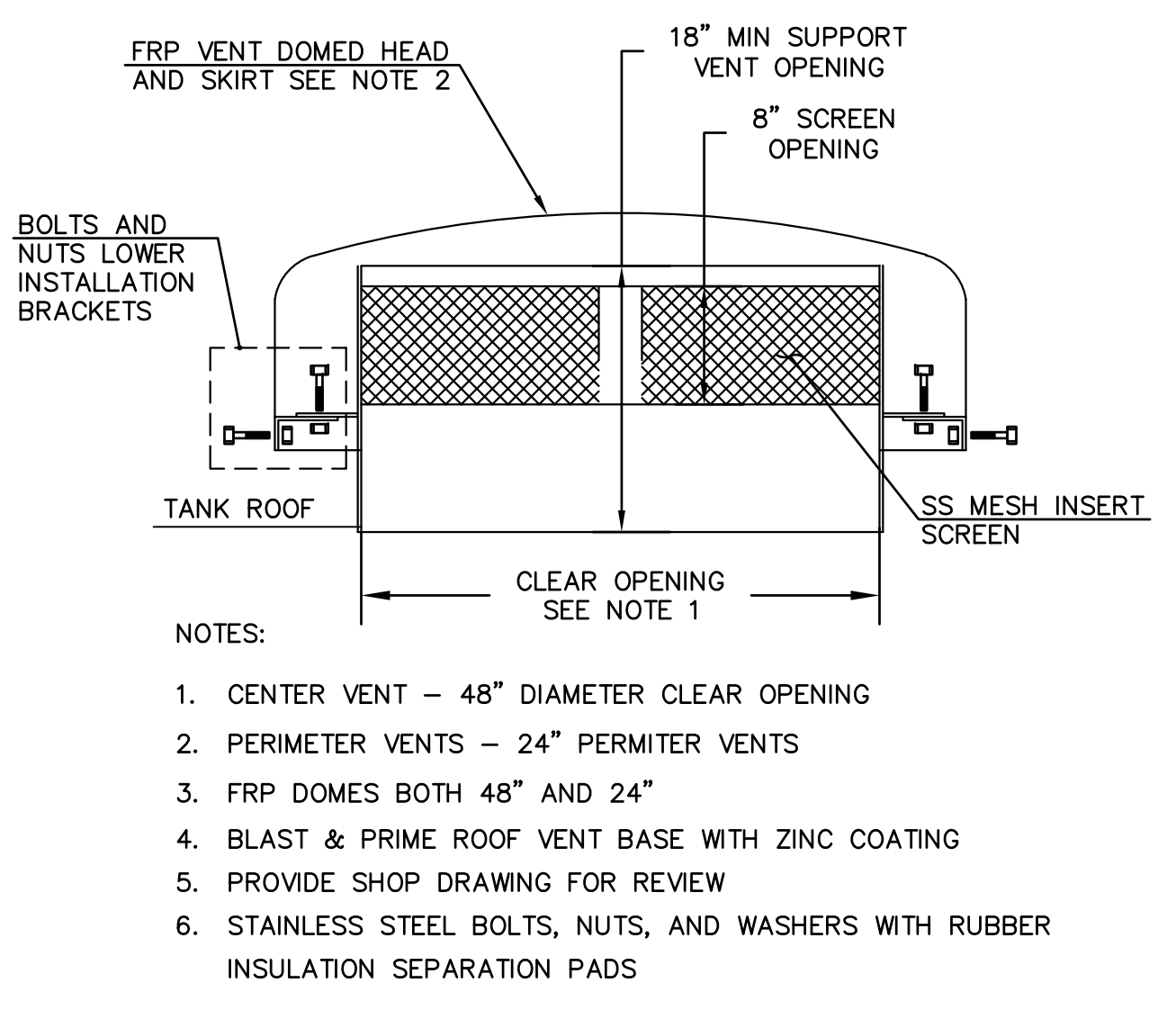


1 42" SHELL MANHOLE DETAILS
NTS



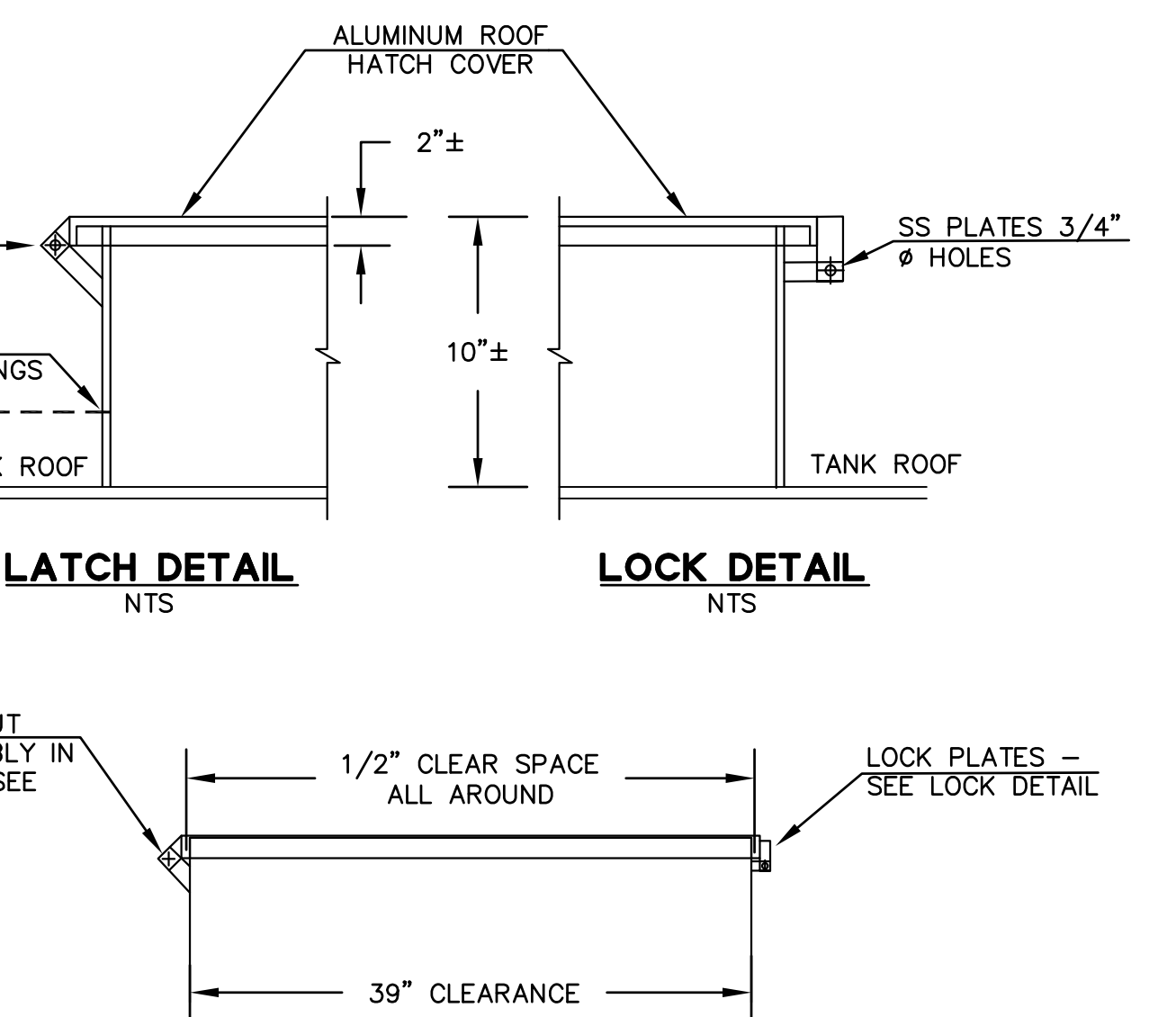
PLAN

2 24"/48" VENT DETAILS
NTS



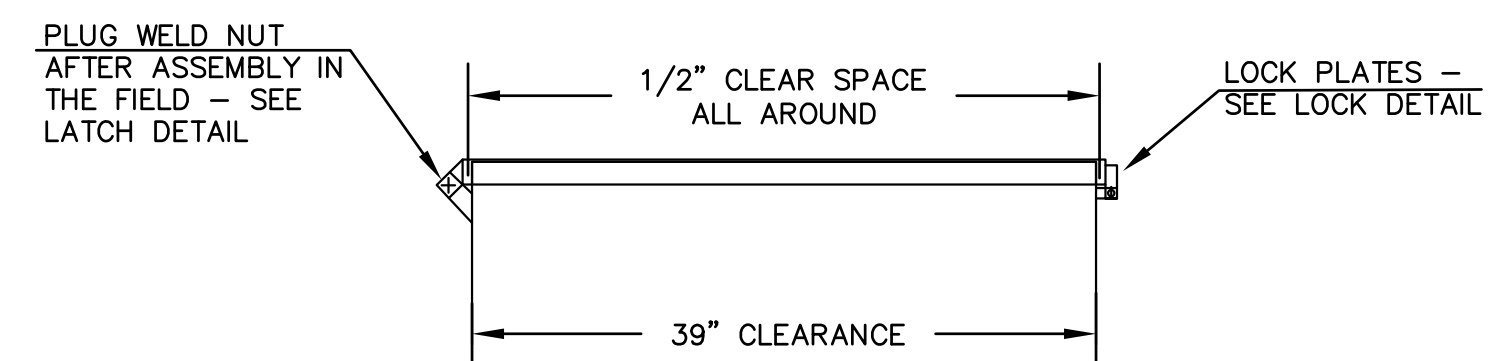
ELEVATION

- NOTES:
- CENTER VENT - 48" DIAMETER CLEAR OPENING
 - PERIMETER VENTS - 24" PERIMETER VENTS
 - FRP DOMES BOTH 48" AND 24"
 - BLAST & PRIME ROOF VENT BASE WITH ZINC COATING
 - PROVIDE SHOP DRAWING FOR REVIEW
 - STAINLESS STEEL BOLTS, NUTS, AND WASHERS WITH RUBBER INSULATION SEPARATION PADS

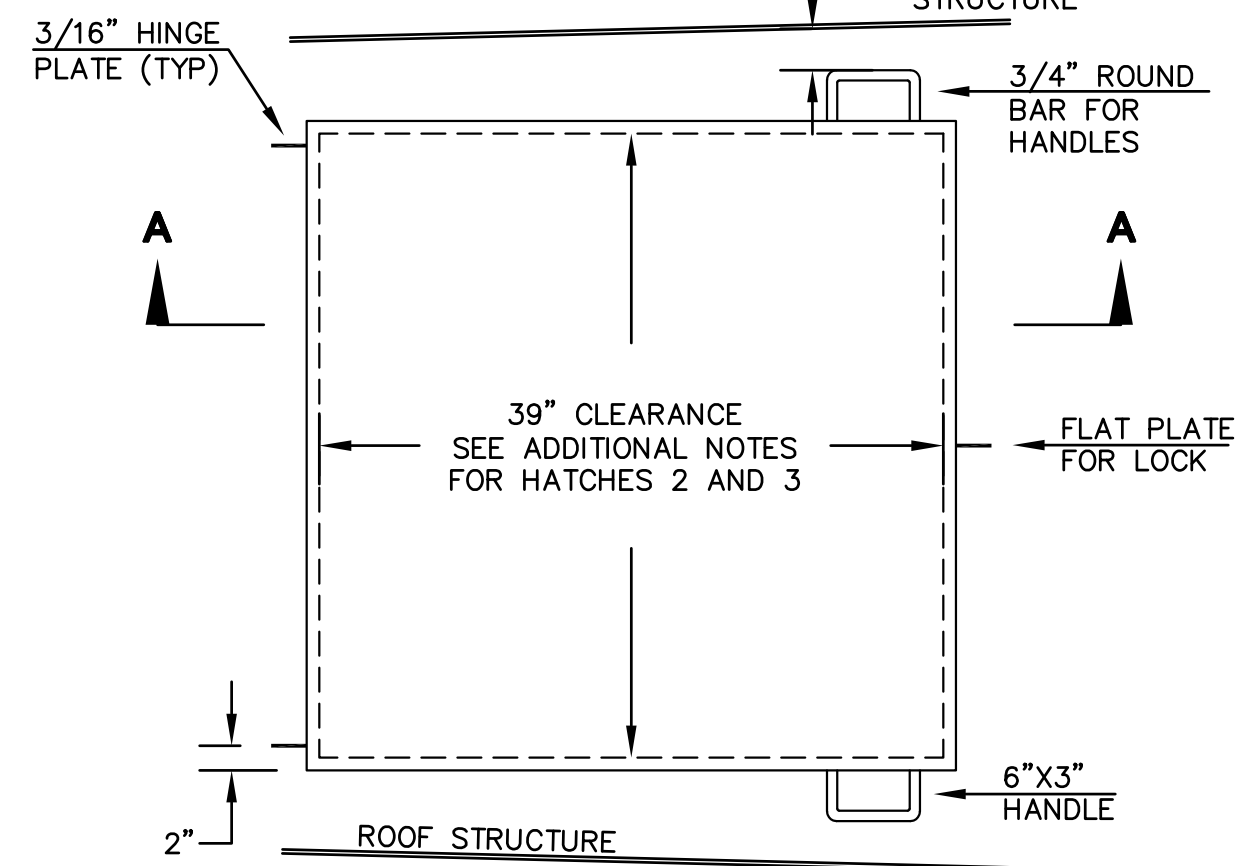


LATCH DETAIL
NTS

LOCK DETAIL
NTS



SECTION A-A



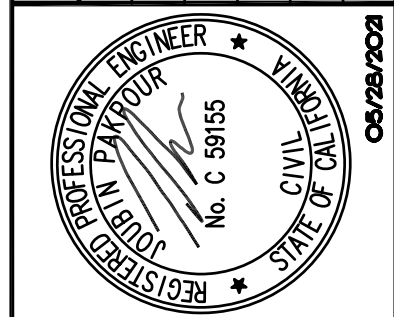
PLAN

- NOTES:**
TOTAL 4 HATCHES PER TANK.
- ROOF HATCH 1 - TOTAL 1:
 - SHALL BE 39"x39"
 - INTERIOR LADDER FRP (NOT SHOWN) - PROVIDE FOR REVIEW.
 - PROVIDE LADDER SAFETY DEVICE SIMILAR TO A "SAF-T-CLIMB" WITH HARNESS.
 - ROOF HATCH 2 - TOTAL 1:
 - ROOF HATCH 2 SHALL BE 39"x39" SIMILAR TO HATCH 1.
 - ROOF HATCH 2 SHALL BE PLACED APPROXIMATELY 180° FROM ROOF HATCH 1.
 - OPENING SHALL HAVE REMOVABLE SAFETY GRATE CROSS MEMBERS TO PREVENT PERSONNEL ENTRY.
 - **ROOF HATCH 3 - TOTAL 2 (NOT SHOWN):
 - ROOF HATCH 3 SHALL BE 30"x30".
 - ROOF HATCH 3 SHALL BE PLACED OVER THE OVERFLOW AND NEAR CENTER FOR THE MIXER.
 - OPENING SHALL HAVE REMOVABLE SAFETY GRATE COVERING THE OPENING TO PREVENT PERSONNEL ENTRY.

3 ROOF HATCH DETAILS
NTS

REVISIONS

| NO. | DESCRIPTION | BY | DATE | APPVD |
|-----|-------------|----|------|-------|
| | | | | |
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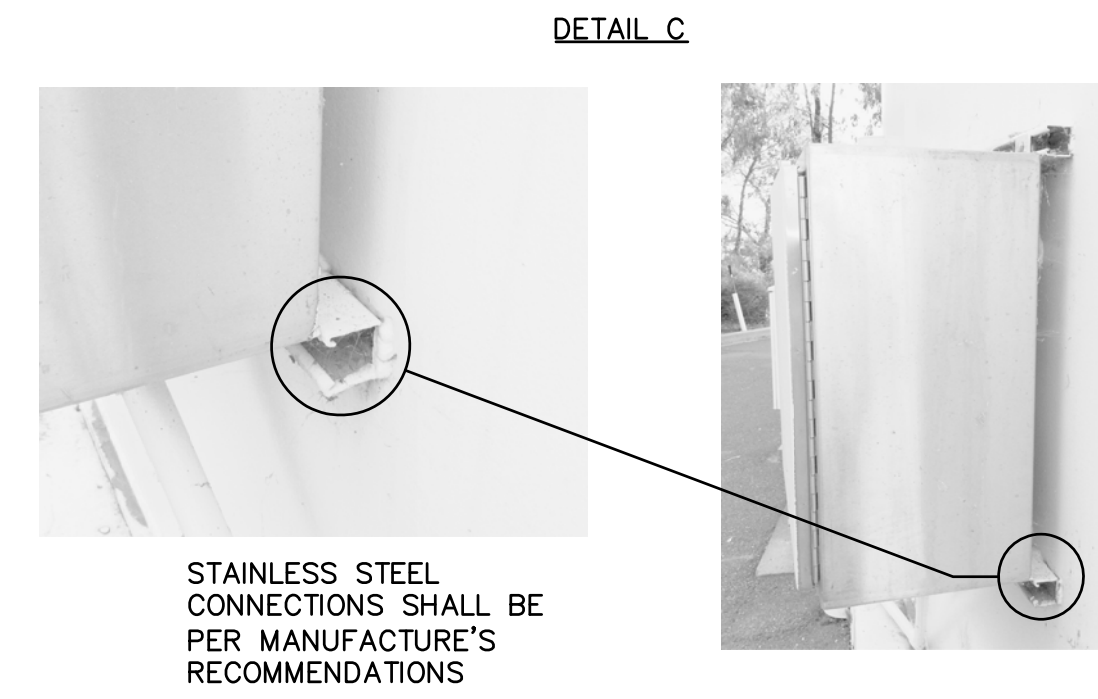
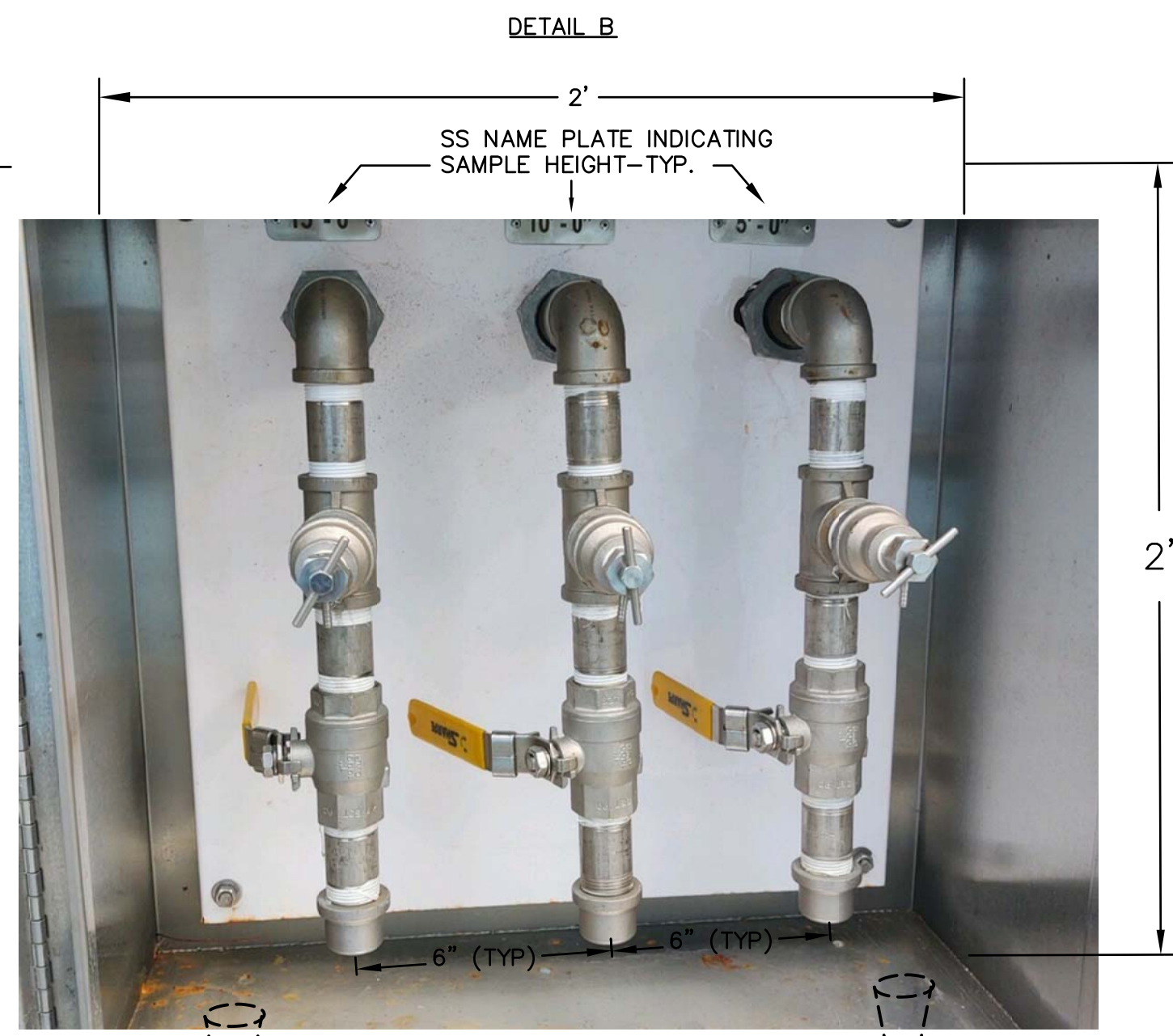
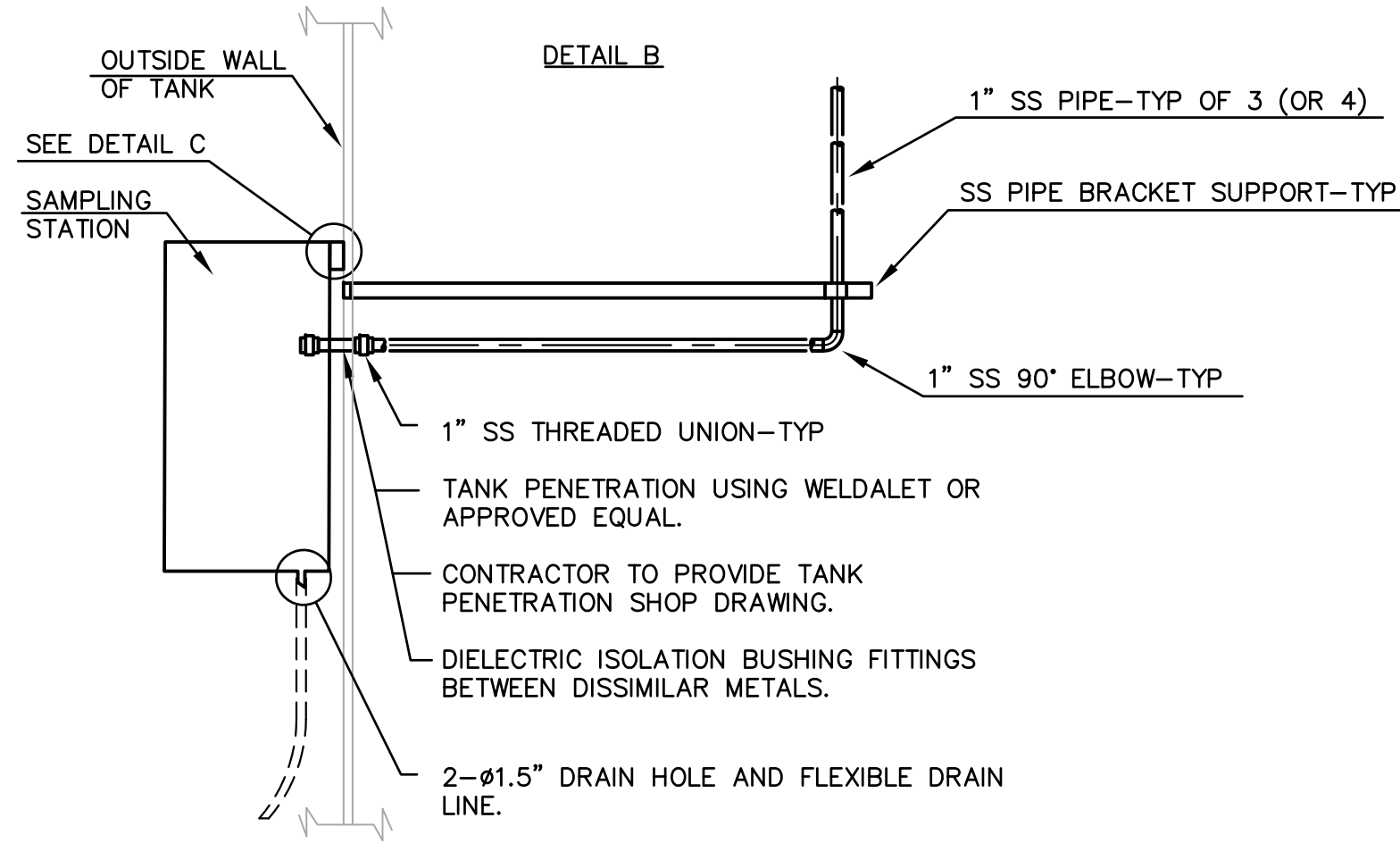
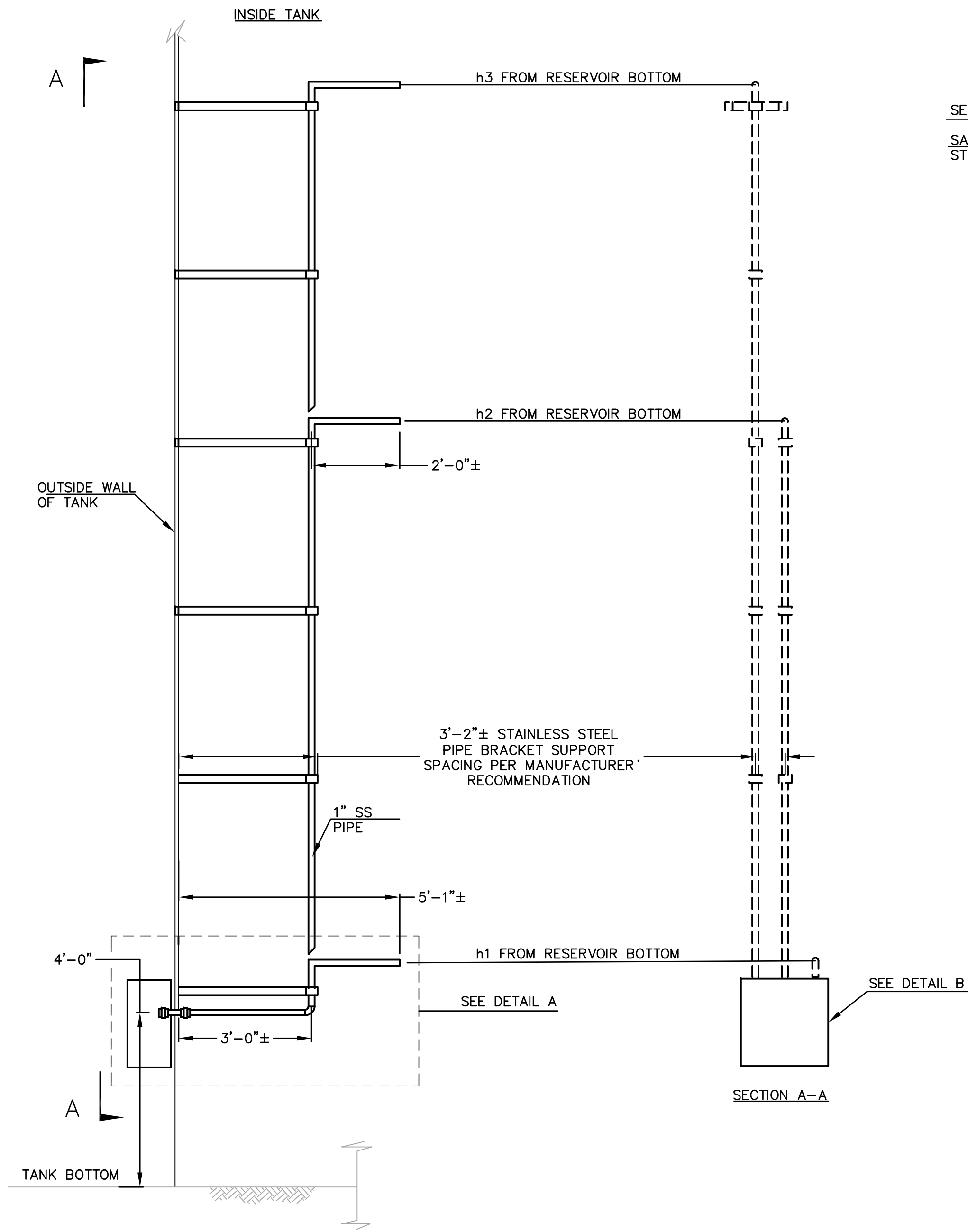
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CHECKED: BRANDON LAURIE
APPROVED: JOUBIN PAKPOUR

DRAWN: VICTOR FUNG
DESIGNED: VICTOR FUNG

MID-PENINSULA WATER DISTRICT
DEKOVEN TANKS REPLACEMENT
WATER TANK CONSTRUCTION DETAILS

DATE: 05/28/21 SCALE: AS NOTED
PCG JOB NO.: 10012.13
PLAN: C1.4
SHEET: 6 OF 33

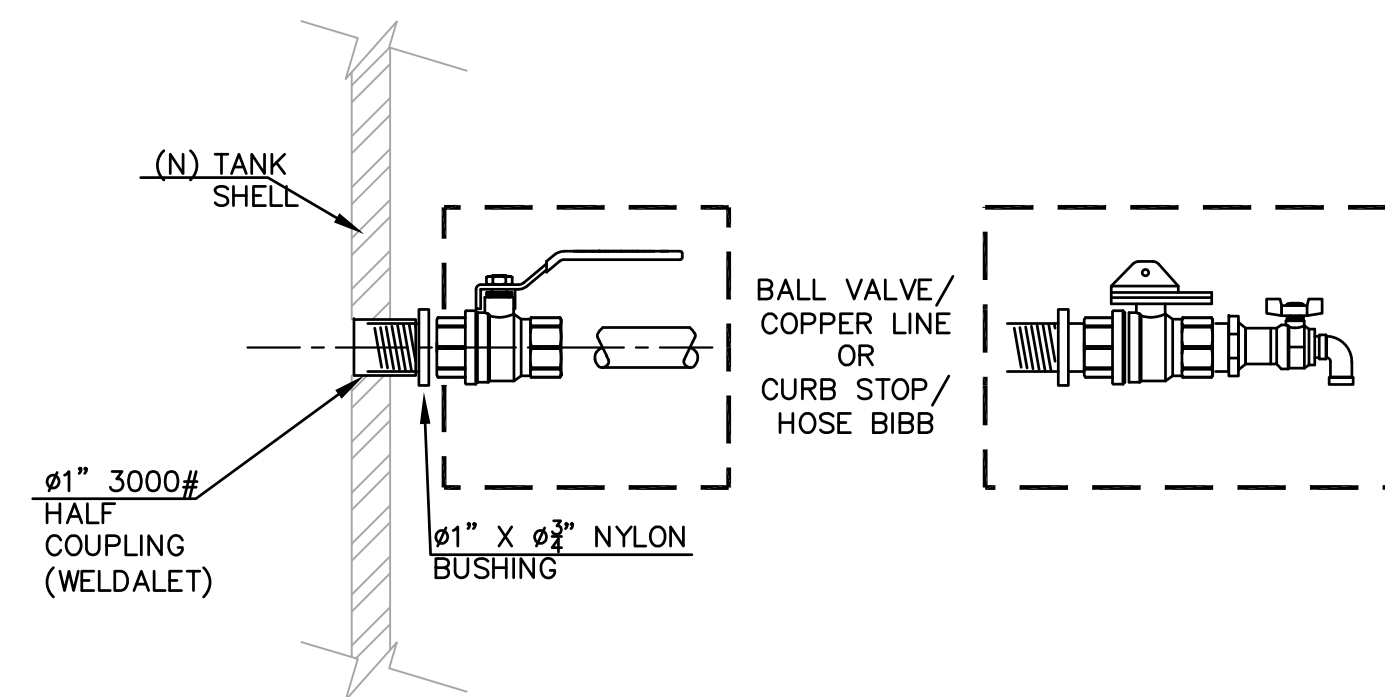


NOTES:

1. WATER SAMPLING STATION SHALL BE PROVIDED BY THE TANK MANUFACTURER. CONTRACTOR TO PROVIDE SHOP DRAWING FOR REVIEW.
2. EACH 1" SS BALL VALVE AND SAMPLE VALVE SHALL BE TYPE 316, THREADED, TWO-PIECE, FULL PORT AND LOCKABLE.
3. STAINLESS STEEL PIPING SHALL BE TYPE 316, THREADED, SCHEDULE 40.
4. WATER SAMPLING STATION ENCLOSURE SHALL BE LOCKABLE NEMA 4X STAINLESS STEEL. MANUFACTURE DRAINAGE LINE AT THE BOTTOM OF THE BOX.
5. EACH NAME PLATE SHALL BE STAINLESS STEEL.
6. EACH PIPE SUPPORT BRACKET SHALL BE CONSTRUCTED OF 2" WIDE SS. TYPE 316 U-BOLT SHALL CONNECT EACH 1" SS PIPE TO THE PIPE SUPPORT BRACKET. SPACING SHALL NOT EXCEED 5'.

| SAMPLE LOCATION FROM GROUND | |
|-----------------------------|-----------------------|
| | DEKOVEN EAST AND WEST |
| h1 | 2 FT |
| h2 | 16 FT |
| h3 | 30 FT |

1 SAMPLE STATION DETAILS
NTS



NOTES:

PRESSURE TRANSDUCERS BALL VALVE CONNECTION (ONE FOR EACH TANK)

1. 0.75" BRASS BALL VALVE MALE X MALE CONNECTION
2. 0.75" (TYPE K) COPPER TRANSDUCER LINE TO THE PUMP STATION

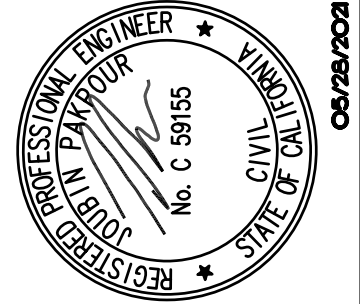
HOSE BIB (BOTH TANKS)

1. CURB STOP 360° BALL VALVE
2. 0.75" BRASS HOSE BIBB

2 TANK CONNECTIONS - PRESSURE TRANSDUCER BALL VALVE AND HOSE BIB
NTS

REVISIONS

| NO. | DESCRIPTION | BY | DATE | APPVD |
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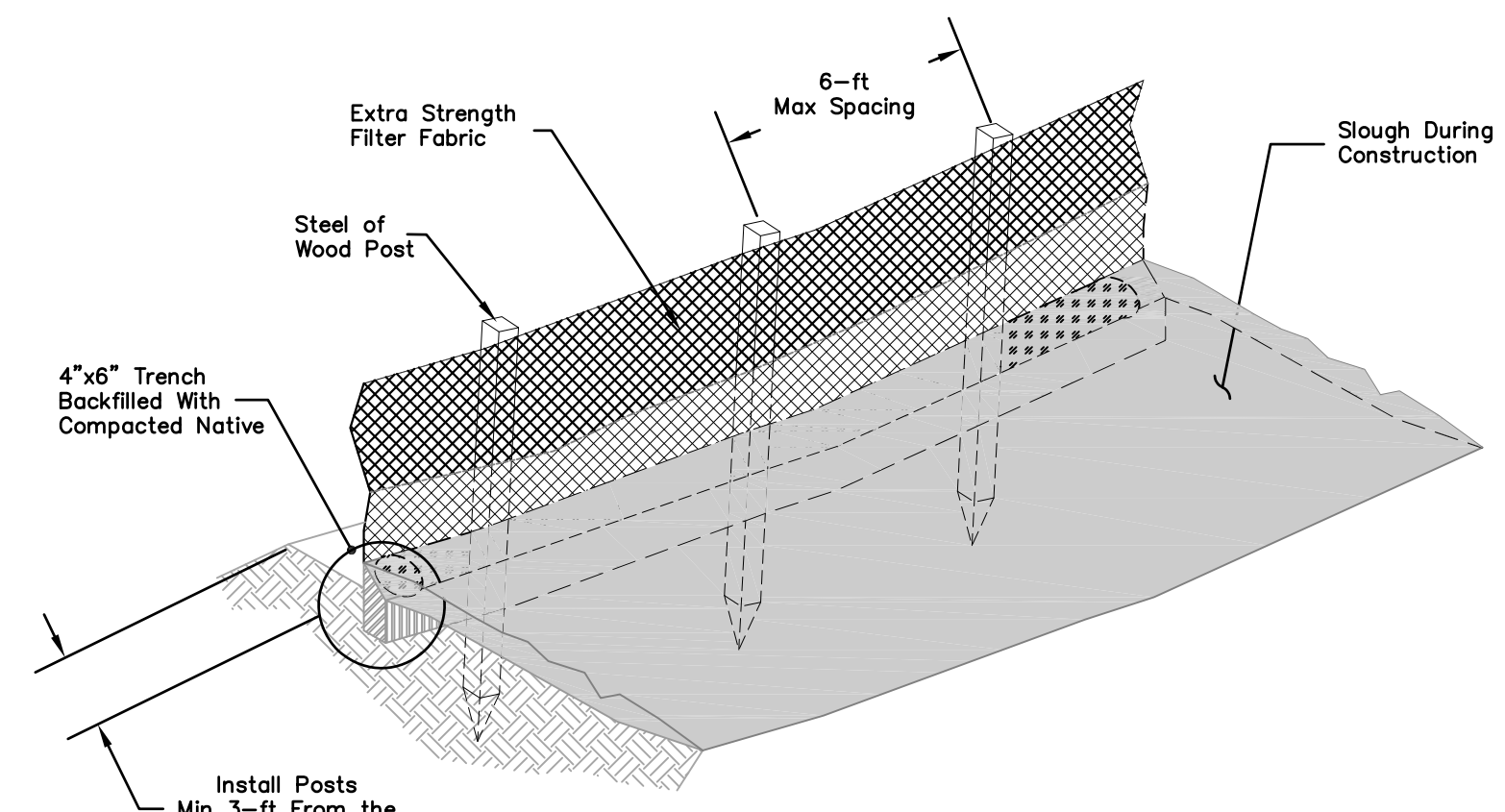


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CHECKED: BRANDON LAURIE
DESIGNED: VICTOR FUNG
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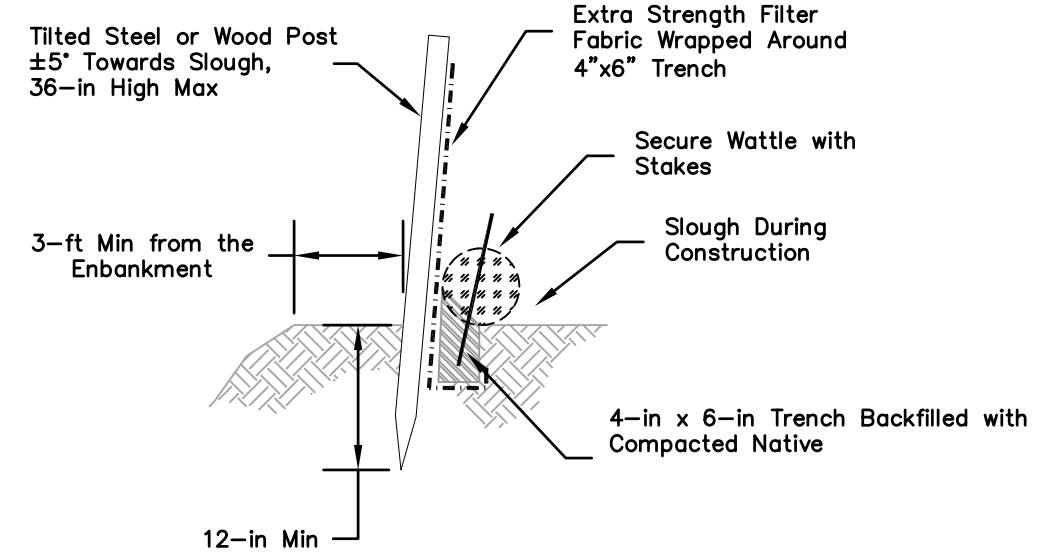
MID-PENINSULA WATER DISTRICT
DEKOVEN TANKS REPLACEMENT
WATER TANK CONSTRUCTION DETAILS

DRAWING NAME: J:\CADD\10012.13\plan sheets\07-SAMPLE STATION.dwg
PLOT DATE: 05/27/21 PLOTTED BY: V.FUNG



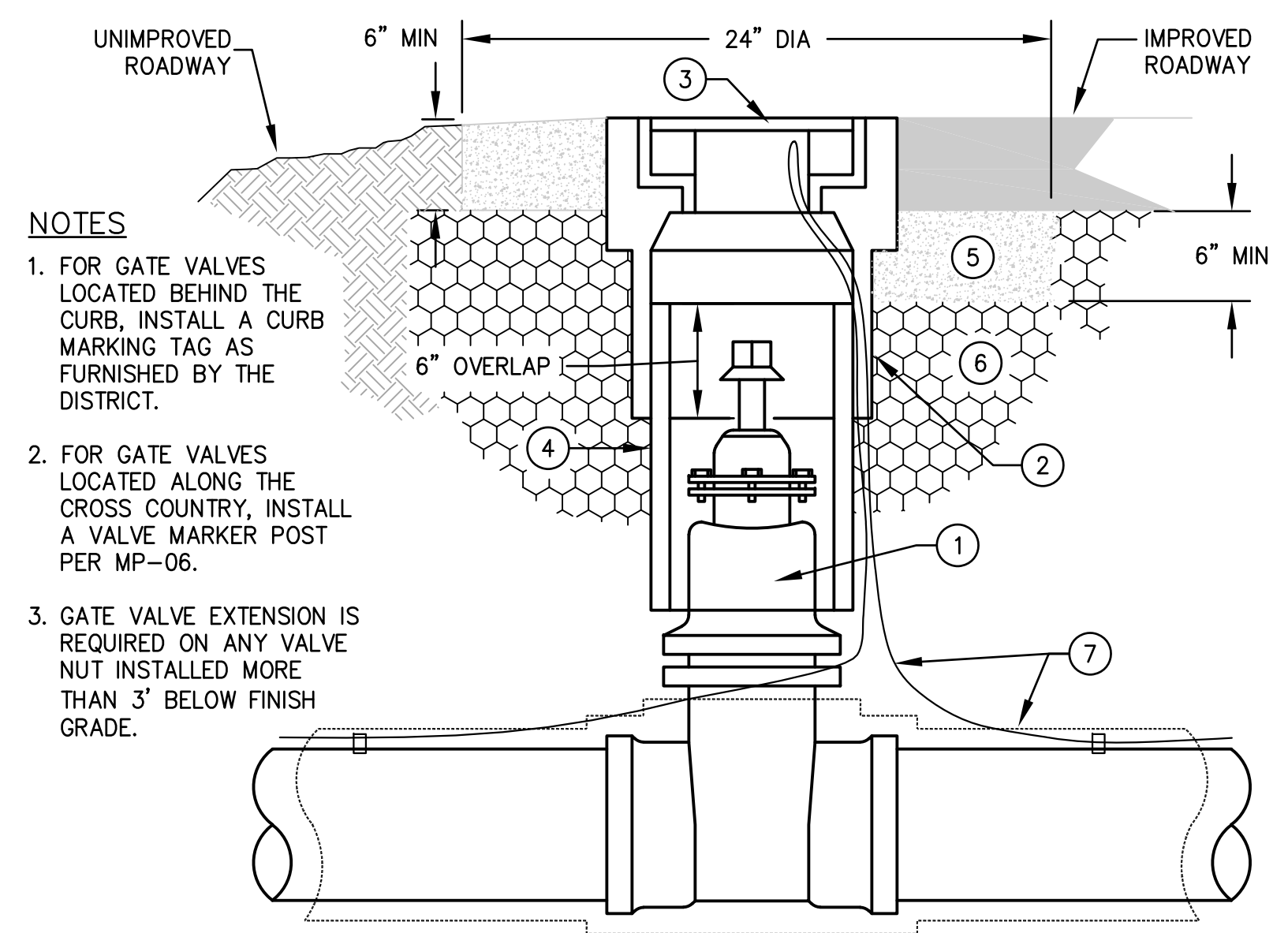
NOTES

- LIMITS OF SILT BARRIER INSTALLATION MUST BE REVIEWED AND APPROVED BY THE DISTRICT INSPECTOR.



1 SILT FENCE DETAIL
NTS

PROFILE SECTION



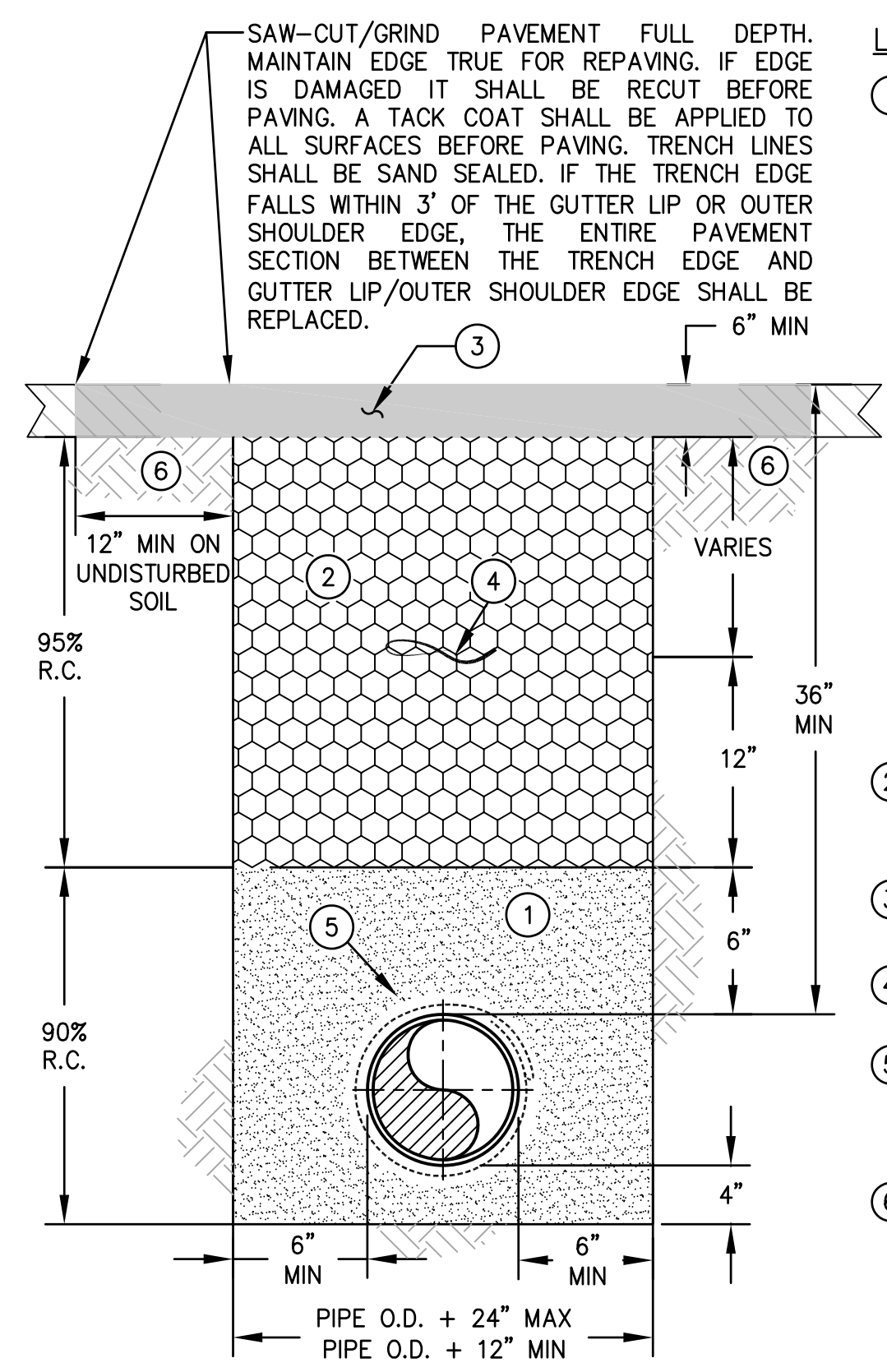
NOTES

- FOR GATE VALVES LOCATED BEHIND THE CURB, INSTALL A CURB MARKING TAG AS FURNISHED BY THE DISTRICT.
- FOR GATE VALVES LOCATED ALONG THE CROSS COUNTRY, INSTALL A VALVE MARKER POST PER MP-06.
- GATE VALVE EXTENSION IS REQUIRED ON ANY VALVE NUT INSTALLED MORE THAN 3' BELOW FINISH GRADE.

LEGEND

- GATE VALVE, MUELLER NO. A-2362 WITH TYPE 316 SS BOLTS AND NUTS, AND 2" SQUARE BRONZE OPERATION NUT. VALVE STEM SHALL BE BRONZE; EPDM RUBBER; MACHINED RELEASE GROOVE BELOW OPERATING NUT; AND STUFFING BOX ALIGNED WITH THE DIRECTION OF THE PIPE. IF COATING ON GATE VALVE IS DAMAGED DURING THE INSTALLATION, IT SHOULD BE REPAIRED USING MUELLER APPROVED VALVE REPAIR EPOXY KIT. VALVE SHALL BE SET PLUMB.
- TRAFFIC VALVE BOX, CHRISTY CONCRETE NO. G05TBOX.
- CAST IRON TRAFFIC COVER INSCRIBED "WATER", CHRISTY CONCRETE NO. G05CT.
- SDR 35 PVC PIPE - 8" MIN DIA.
- 2,000 PSI HIGH EARLY STRENGTH CONCRETE. PLACE ASPHALT ON TOP OF CONCRETE COLLAR, SAME DAY.
- TRENCH BACKFILL PER MP-01 THRU MP-04
- ENCASE DIP WITH V-BIO ENHANCED POLYETHYLENE ENCASUREMENT. WRAP EXCESS FILM WITH 10-MIL PIPE TAPE. USE NO. 8 AWG STANDARD TRACER WIRE TAPED ON TOP OF PIPE AND LOOPED INTO THE VALVE BOX FROM OUTSIDE THE RISER. WIRE TO EXTEND 12" ABOVE GRADE.

4 GATE VALVE ASSEMBLY DETAIL
SCALE: NTS



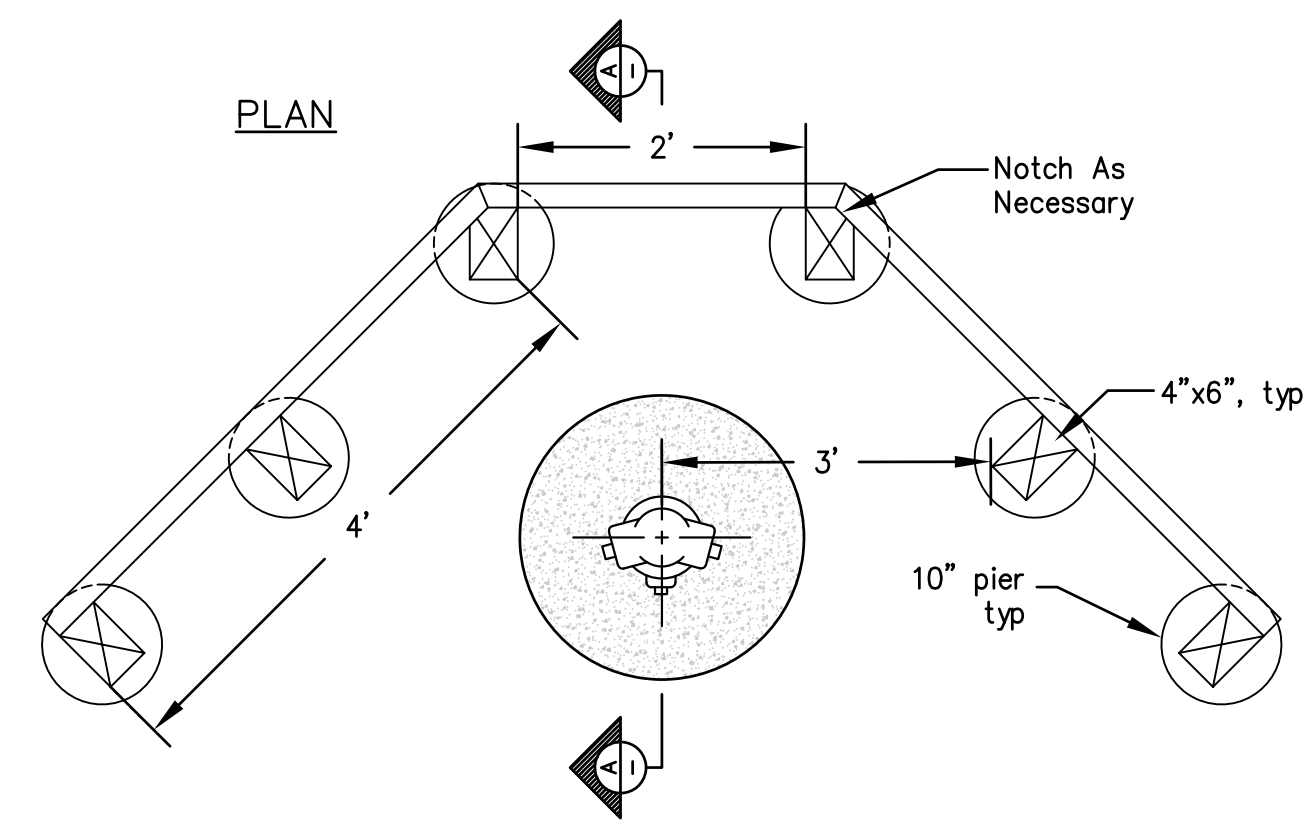
LEGEND

- EMBEDMENT ZONE (QUARRY FINES) SHALL BE PLACED IN THREE LIFTS:
LIFT ONE - SHALL CONSIST OF PLACING AND COMPACTING 4" OF MATERIAL PRIOR TO THE PLACEMENT OF THE PIPE. THE PIPE SHALL THEN BE PLACED PRIOR LIFT TWO.
LIFT TWO - SHALL CONSIST OF PLACING MATERIAL AROUND THE PIPE TO THE TOP OF THE PIPE. THE TOP OF THE PIPE SHALL BE VISIBLE PRIOR COMPACTION OF THE SECOND LIFT. COMPACTION AROUND THE PIPE SHALL BE PERFORMED BY PNEUMATIC MEANS SUCH AS A "POWDER PUFF." NO OTHER MEANS OF COMPACTION SHALL BE ALLOWED WITHOUT PRIOR APPROVAL BY THE DISTRICT. CONTRACTOR SHALL USE EXTREME CARE TO AVOID HITTING THE PIPE, POLYETHYLENE WRAPPING, AND TRACER WIRE WHILE COMPACTION.
LIFT THREE - SHALL CONSIST OF PLACING AND COMPACTING MATERIAL TO 6" ABOVE THE PIPE.
- UPPER TRENCH ZONE (CLASS 2 AGGREGATE BASE) SHALL BE PLACED AND COMPACTED IN 12" LIFTS.
- ASPHALT CONCRETE SHALL BE REPLACED IN KIND BUT NO LESS THAN 6" IN DEPTH.
- MARKER TAPE TO BE INSTALLED 18" ABOVE WATER MAIN.
- ENCASE DIP WITH V-BIO ENHANCED POLYETHYLENE ENCASUREMENT. TAPE A BLUE NO. 8 AWG COPPER TRACER WIRE TO TOP OF PIPE EVERY 6".
- A SECOND OPERATION IS REQUIRED PRIOR TO FINAL PAVING TO ACHIEVE THE "T" CUT SECTION. SAW CUTTING/GRINDING A WIDER TRENCH LINE DURING INITIAL TRENCH EXCAVATION TO ACHIEVE A "T" CUT SECTION IS NOT PERMITTED.

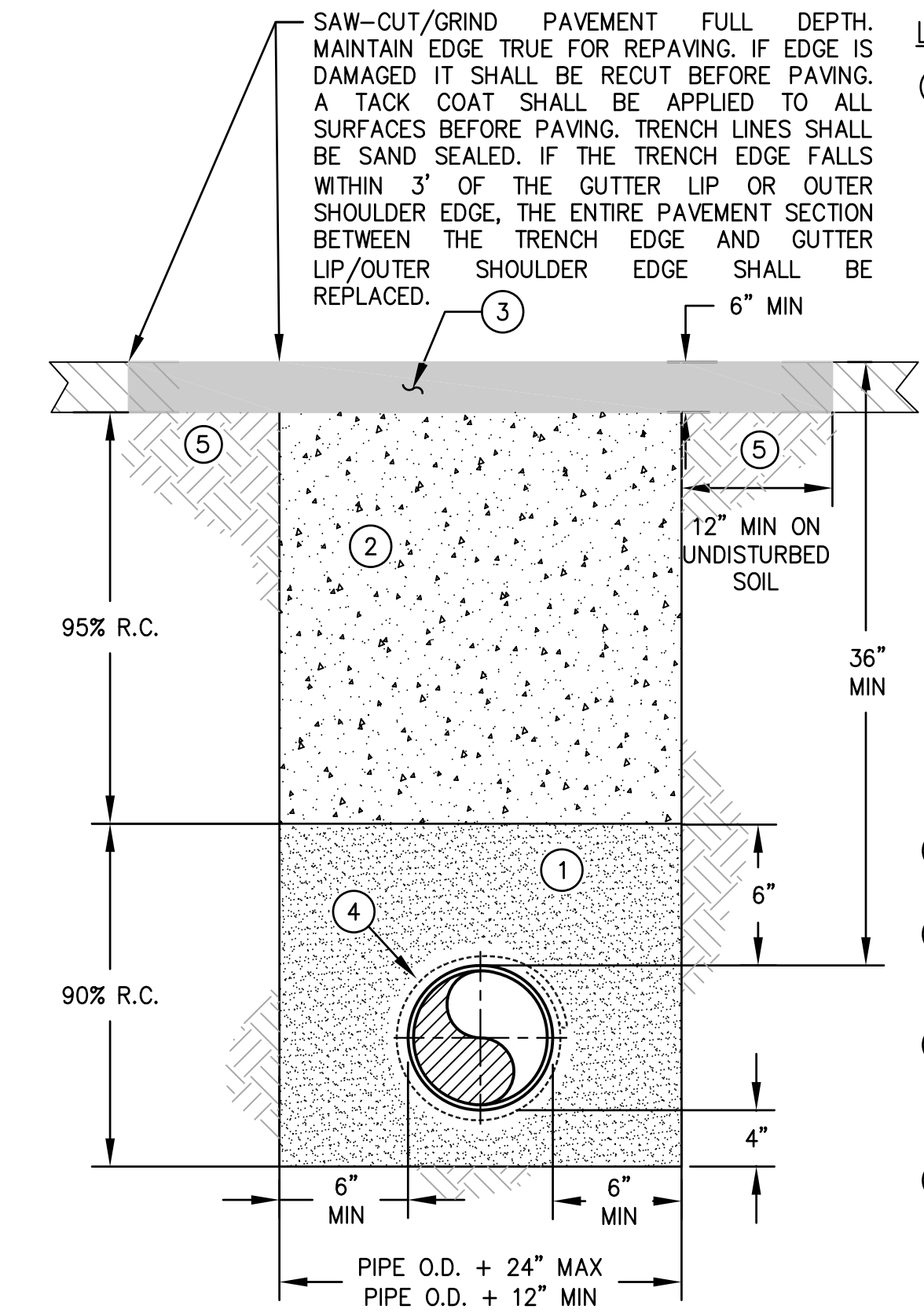
NOTES

- REPLACE EXISTING TRACER WIRE IF DAMAGED DURING TRENCHING OPERATION. ON EXISTING STEEL PIPES, WELD THE NEW TRACER WIRE END TO THE STEEL PIPE IF TRACER WIRE IS NOT PRESENT.
- IF WATER IS ENCOUNTERED IN THE TRENCH OR THE DISTRICT INSPECTOR DETERMINES THE SUBGRADE BELOW THE PIPE EMBEDMENT ZONE IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE AN ADDITIONAL 12" AND INSTALL 3/4" CRUSHED DRAIN ROCK. DRAIN ROCK SECTION SHALL BE WRAPPED WITH FILTER FABRIC ON ALL SIDES.

2 TRENCH SECTION TYPE A - PAVED SURFACES DETAIL
NTS



5 FIRE HYDRANT RETAINING WALL DETAIL
NTS



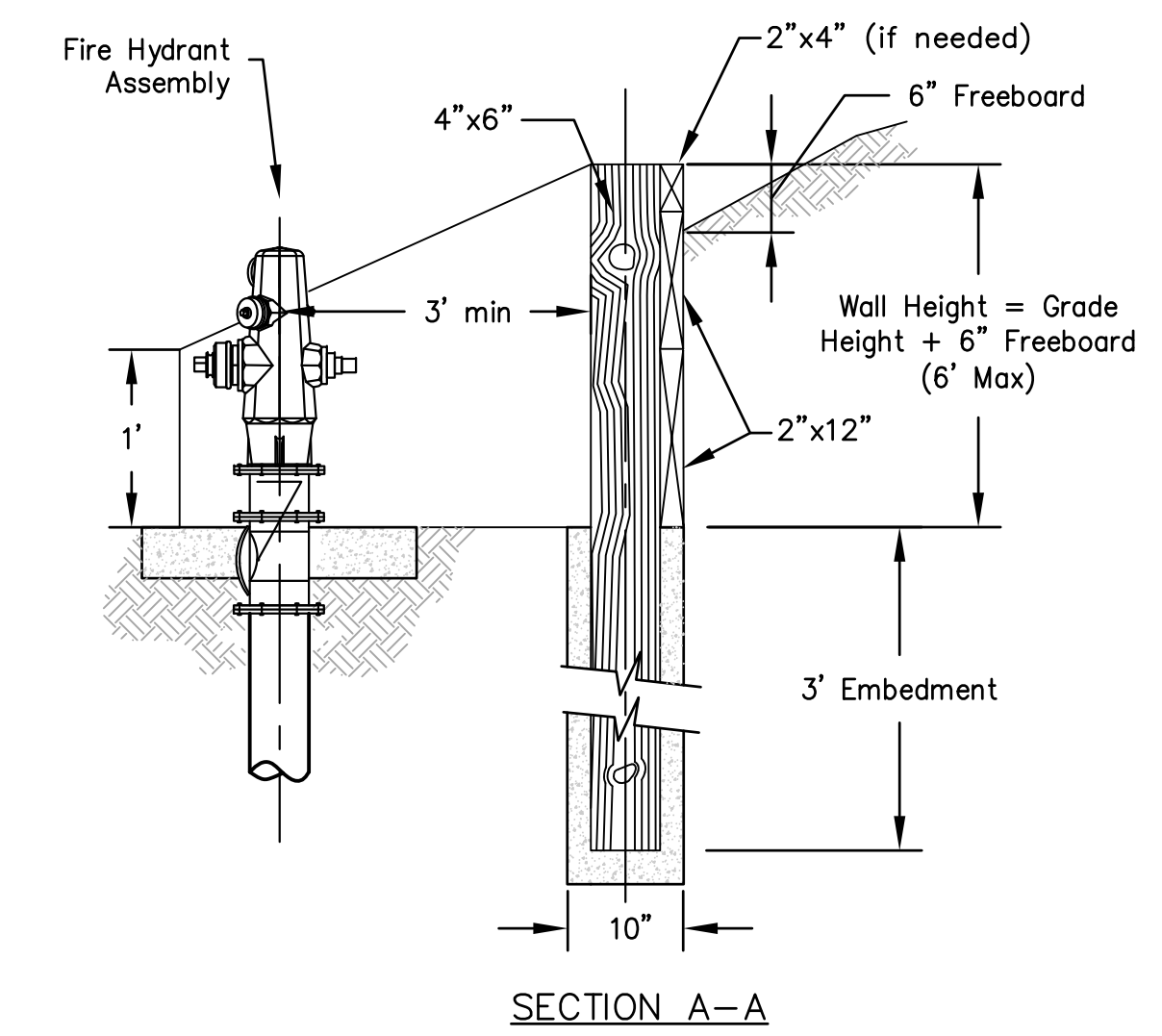
LEGEND

- EMBEDMENT ZONE (QUARRY FINES) SHALL BE PLACED IN THREE LIFTS:
LIFT ONE - SHALL CONSIST OF PLACING AND COMPACTING 4" OF MATERIAL PRIOR TO THE PLACEMENT OF THE PIPE. THE PIPE SHALL THEN BE PLACED PRIOR LIFT TWO.
LIFT TWO - SHALL CONSIST OF PLACING MATERIAL AROUND THE PIPE TO THE TOP OF THE PIPE. THE TOP OF THE PIPE SHALL BE VISIBLE PRIOR COMPACTION OF THE SECOND LIFT. COMPACTION AROUND THE PIPE SHALL BE PERFORMED BY PNEUMATIC MEANS SUCH AS A "POWDER PUFF." NO OTHER MEANS OF COMPACTION SHALL BE ALLOWED WITHOUT PRIOR APPROVAL BY THE DISTRICT. CONTRACTOR SHALL USE EXTREME CARE TO AVOID HITTING THE PIPE, POLYETHYLENE WRAPPING, AND TRACER WIRE WHILE COMPACTION.
LIFT THREE - SHALL CONSIST OF PLACING AND COMPACTING MATERIAL TO 6" ABOVE THE PIPE.
- UPPER TRENCH ZONE (CONTROLLED DENSITY FILL).
- ASPHALT CONCRETE SHALL BE REPLACED IN KIND BUT NO LESS THAN 6" IN DEPTH.
- ENCASE DIP WITH V-BIO ENHANCED POLYETHYLENE ENCASUREMENT. TAPE A BLUE NO. 8 AWG COPPER TRACER WIRE TO TOP OF PIPE EVERY 6".
- A SECOND OPERATION IS REQUIRED PRIOR TO FINAL PAVING TO ACHIEVE THE "T" CUT SECTION. SAW CUTTING/GRINDING A WIDER TRENCH LINE DURING INITIAL TRENCH EXCAVATION TO ACHIEVE A "T" CUT SECTION IS NOT PERMITTED.

NOTES

- REPLACE EXISTING TRACER WIRE IF DAMAGED DURING TRENCHING OPERATION. ON EXISTING STEEL PIPES, WELD THE NEW TRACER WIRE END TO THE STEEL PIPE IF TRACER WIRE IS NOT PRESENT.
- IF WATER IS ENCOUNTERED IN THE TRENCH OR THE DISTRICT INSPECTOR DETERMINES THE SUBGRADE BELOW THE PIPE EMBEDMENT ZONE IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE AN ADDITIONAL 12" AND INSTALL 3/4" CRUSHED DRAIN ROCK. DRAIN ROCK SECTION SHALL BE WRAPPED WITH FILTER FABRIC ON ALL SIDES.

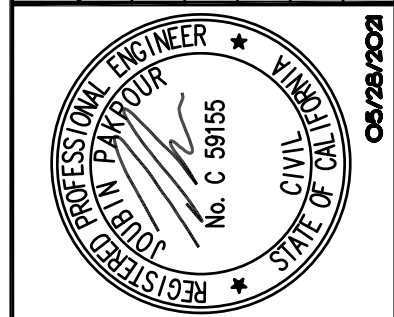
3 TRENCH SECTION TYPE D - CONTROL DENSITY FILL DETAIL
NTS



NOTES

- All lumber shall be pressure treated lumber with 0.40 lbs/cf retention or greater.
- All dimensions shown are for a typical retaining wall. Field conditions may require deviation from detail. Contractor shall call USA and verify site conditions.
- Adjust posts locations with (e) underground utilities.
- Layout shall be reviewed by the District.
- Hand dig required around (e) underground utilities.

| NO. | DESCRIPTION | BY | DATE | APP'VD |
|-----|-------------|----|------|--------|
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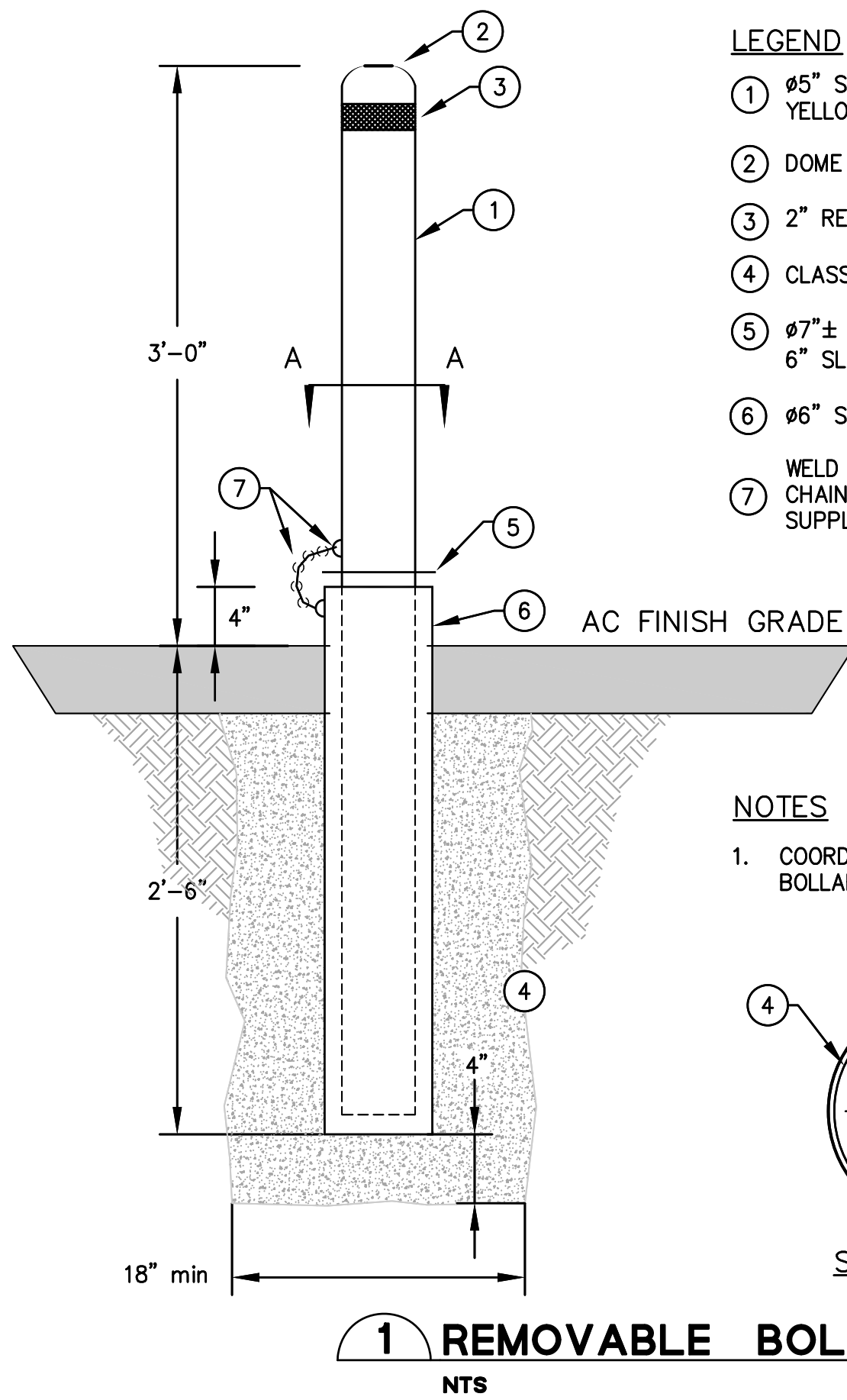
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CHECKED: BRANDON LAURIE
APPROVED: JOUBIN PAKPOUR

DRAWN: VICTOR FUNG
DESIGNED: VICTOR FUNG

MID-PENINSULA WATER DISTRICT
DEKOVEN TANKS REPLACEMENT
CONSTRUCTION DETAILS

DRAWING NAME: J:\CAD\010121\21\pwr\mwd08-20210701.dwg
PLOT DATE: 05/28/21 PLOTTED BY: VFW

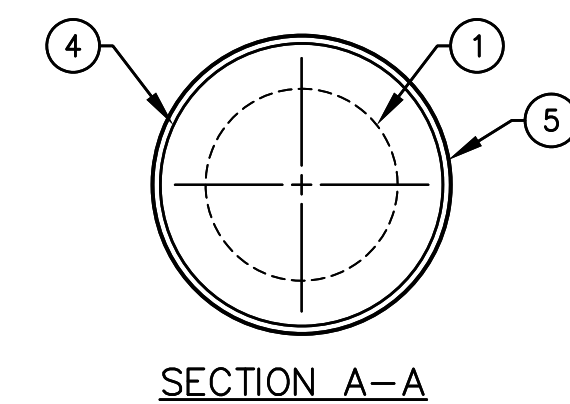


LEGEND

- ① #5" SCHEDULE 40 SOLID PIPE SAFETY YELLOW COATING
- ② DOME TOP
- ③ 2" REFLECTIVE RED TAPE
- ④ CLASS 2 CONCRETE
- ⑤ #7"± COVER PLATE OVERLAPPING 6" SLEEVE
- ⑥ #6" STEEL SCHEDULE 40 SLEEVE
- ⑦ WELD HALF CHAIN LINK CONNECTION. WELD CHAIN TO ATTACH A LOCK. DISTRICT WILL SUPPLY THE LOCK.

NOTES

- 1. COORDINATE THE LOCATION OF THE BOLLARDS WITH THE DISTRICT.

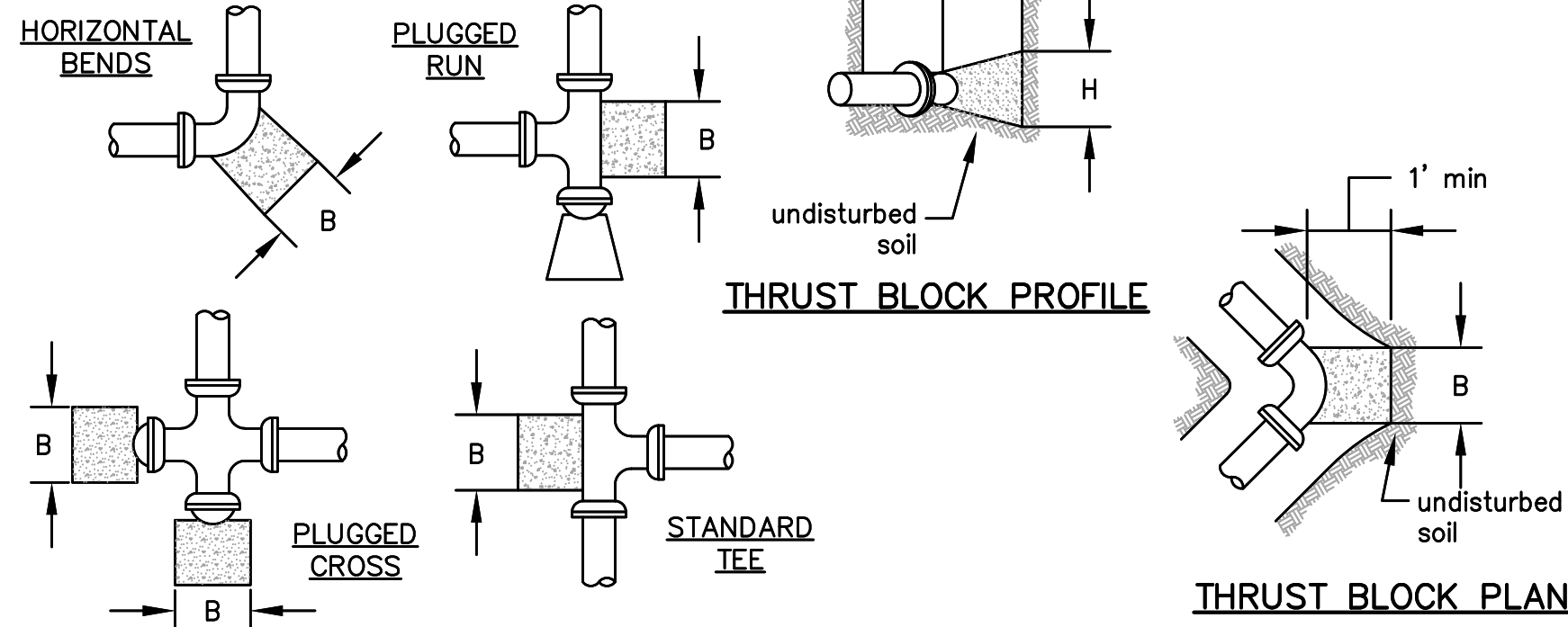


1 REMOVABLE BOLLARD DETAIL

NTS

VOLUME OF GRAVITY BLOCK IN CUBIC YARDS

| VERTICAL FITTING | DIAMETER OF PIPE | | | | | |
|------------------|------------------|-----|-----|-----|-----|-----|
| | 6" | 8" | 10" | 12" | 14" | 16" |
| 90° | 1.0 | 2.0 | 3.0 | 4.0 | 5.0 | 6.0 |
| 45° | 0.5 | 1.0 | 1.5 | 2.0 | 2.5 | 3.0 |



DIMENSIONS OF THRUST BLOCKS IN FEET

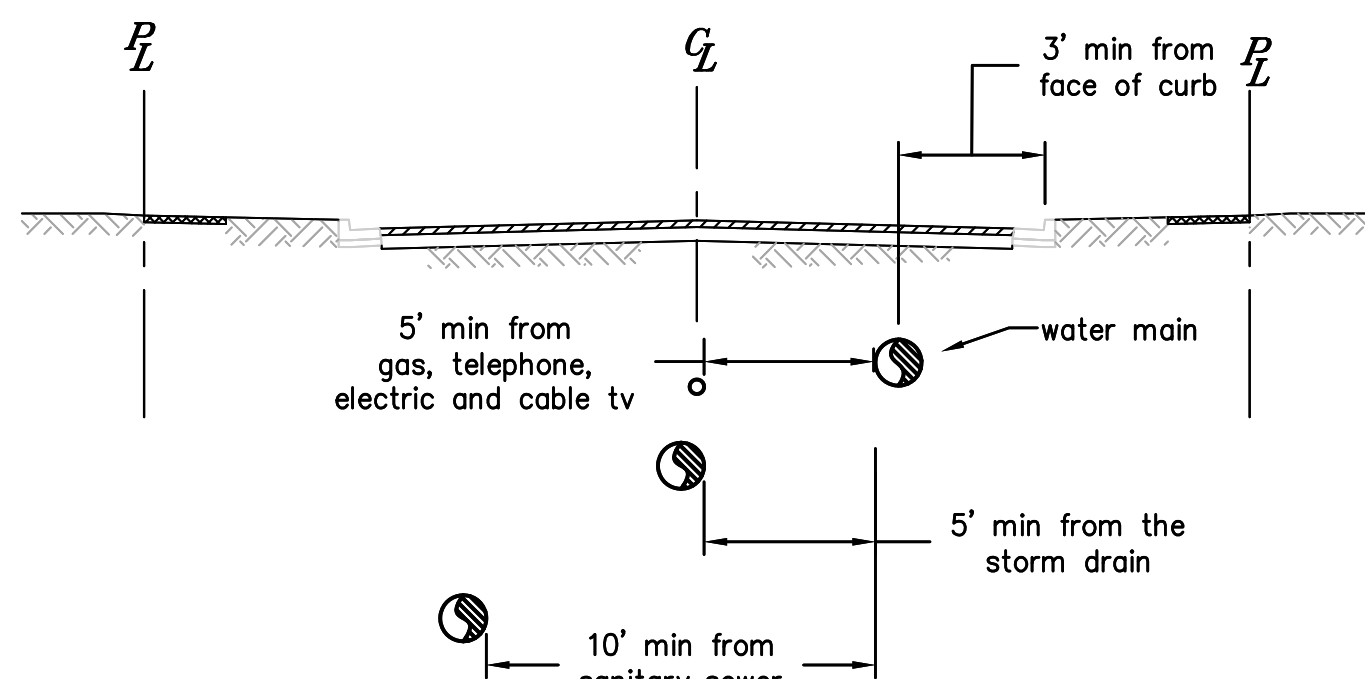
| HORIZONTAL FITTING | DIAMETER OF PIPE | | | | | | | | | | | |
|--------------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 6" | | 8" | | 10" | | 12" | | 14" | | 16" | |
| | B | H | B | H | B | H | B | H | B | H | B | H |
| 90° | 1'-9" | 1'-9" | 2'-3" | 2'-3" | 2'-9" | 2'-9" | 3'-3" | 3'-3" | 3'-9" | 3'-9" | 4'-3" | 4'-3" |
| 45° | 1'-0" | 1'-0" | 1'-6" | 1'-6" | 2'-0" | 2'-0" | 2'-6" | 2'-6" | 3'-0" | 3'-0" | 3'-6" | 3'-6" |
| PLUG/TEE | 1'-3" | 1'-3" | 1'-9" | 1'-9" | 2'-3" | 2'-3" | 2'-9" | 2'-9" | 3'-3" | 3'-3" | 3'-9" | 3'-9" |

NOTES

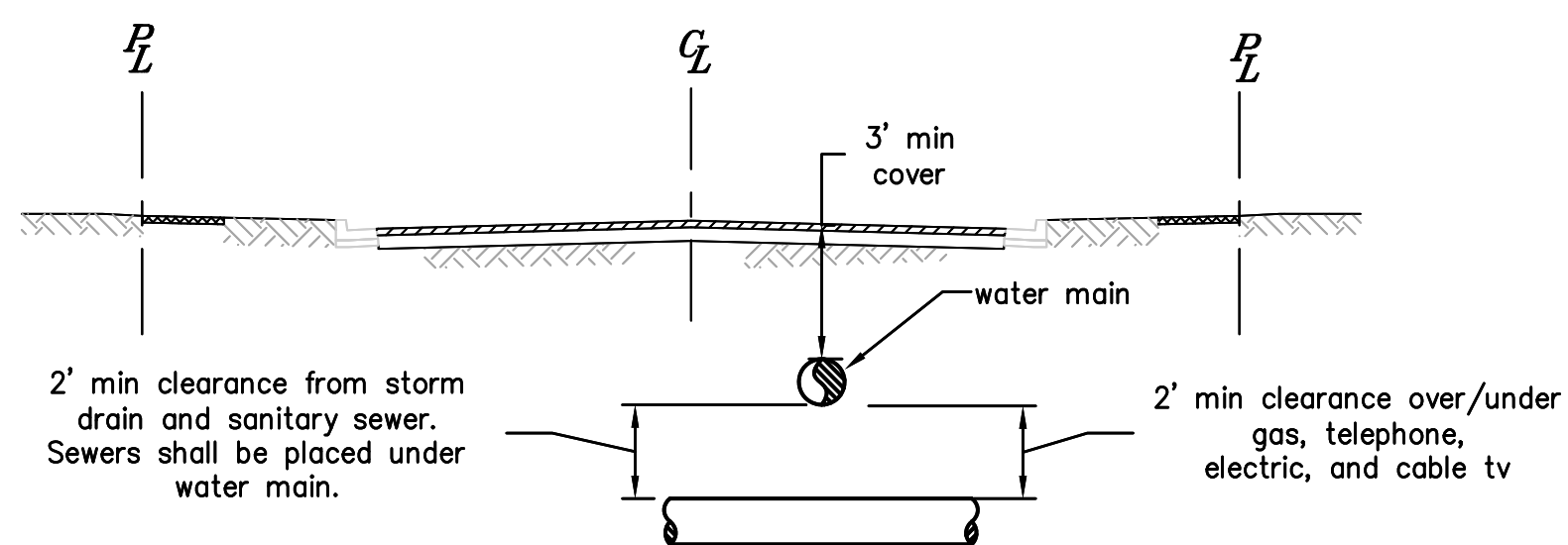
- 1. Thrust block dimensions shall be doubled if used on non-restrained connections.
- 2. Use 2,000 psi high early strength concrete.
- 3. All thrust blocks and gravity blocks shall bear against undisturbed earth.
- 4. Encase DIP in V-Bio enhanced polyethylene encasement.
- 5. Maintain a min clearance of 2" between the thrust block reinforcing steel and pipe.
- 6. Thrust block shall encompass at least one-half of the outside diameter of the pipe.
- 7. Flanges, bolts, and nuts shall be kept clear of concrete.
- 8. Dimensions above include use of mechanical restraints on pipe.
- 9. If groundwater is present, thrust block dimensions shall be determined by the District.

2 THRUST BLOCK DETAILS

NTS

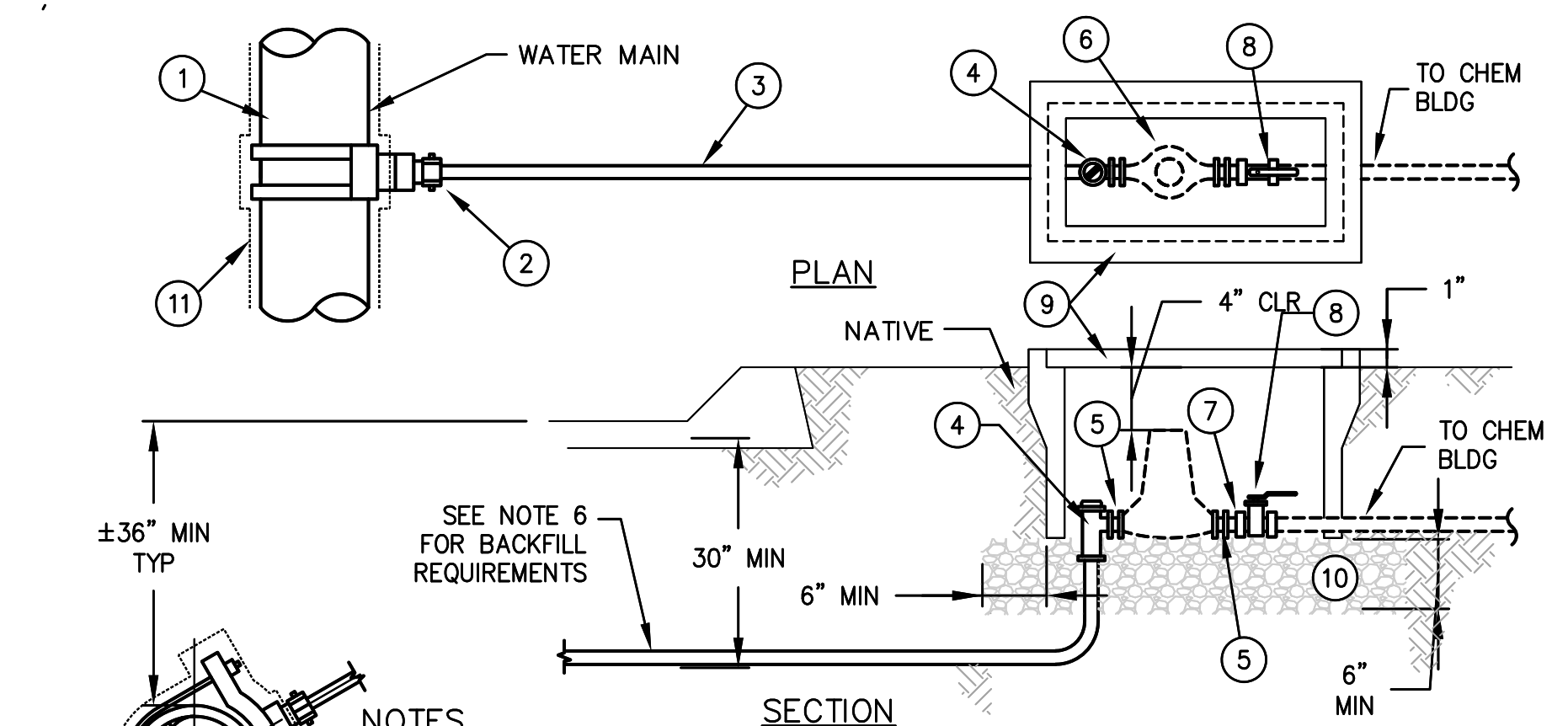


MINIMUM REQUIRED HORIZONTAL CLEARANCE FROM WATER MAIN



5 MINIMUM SEPARATION REQUIREMENTS DETAIL

NTS



NOTES

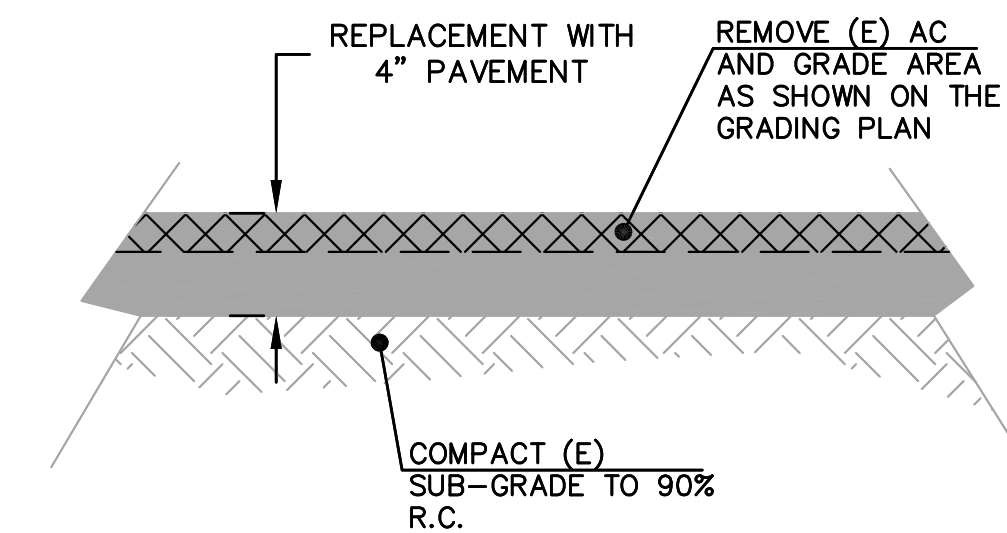
- 1. METERS SHALL BE INSTALLED IN A LEVEL, HORIZONTAL POSITION AND SHALL BE PERPENDICULAR TO THE CURB. NO METERS SHALL BE PLACED ON PRIVATE PROPERTY.
- 2. APPLICATIONS FOR SERVICES LARGER THAN 1" REQUIRE HYDRAULIC CALCULATION JUSTIFICATION & PRIOR APPROVAL FROM THE DISTRICT.
- 3. USE MUELLER PACK JOINT V-15442 (FEMALE) OR V-15440 (MALE) WHEN CUSTOMER SERVICE IS PV.
- 4. HOT-TAPS AND NEW CONNECTIONS SHALL BE 4' MIN FROM A BELL/JOINT OR AS DIRECTED BY DISTRICT.
- 5. SERVICE SADDLE SHALL BE 18" MIN FROM AN ADJACENT SERVICE CONNECTION.
- 6. IF OPEN TRENCH METHOD IS USED, EMBEDMENT MATERIAL (QUARRY FINES) SHALL BE PLACED BELOW AND 6" ABOVE THE SERVICE LINE. BACKFILL AND COMPACT REMAINING SECTION F APPLICABLE MP-01 THRU MP-04.
- 7. ANY FIRE SPRINKLER INSTALLATION WILL REQUIRE AN UPDATED SERVICE CONNECTION.

LEGEND

- ① DOUBLE STRAP BRONZE SERVICE SADDLE, MUELLER BR2B "CC" FOR DIP AND MUELLER BR2S "CC" FOR PVC.
- ② 1" INSULATED CORPORATION STOP, MUELLER N-35008N.
- ③ 1" TYPE K SOFT COPPER PIPE. COPPER PIPE SHALL HAVE BLUE SEAMLESS POLYETHYLENE COAT DISTRIBUTED BY MUELLER STREAMLINE CO. UNIONS OR COUPLINGS NOT PERMITTED.
- ④ 1" COMPRESSION BALL ANGLE METER VALVE, MUELLER B-24258N.
- ⑤ FORD A-XX-NL METER ADAPTERS, (BRASS), SHALL BE INSTALLED ON THE INLET AND OUTLET SIDES OF THE MET TO UPSIZE/DOWNSIZE THE METER SIZE AND LENGTH AS REQUIRED.
- ⑥ 5/8" OR 1" METER (FURNISHED BY DISTRICT).
- ⑦ INSULATED METER COUPLING, MUELLER H-10871N.
- ⑧ BALL VALVE, RED WHITE VALVE 5044AB.
- ⑨ H/20, TRAFFIC RATED BOX AND COVER, ARMORCAST 20K, NO. A6000492 AND A6000489TH, SHALL BE PROVIDED TRAFFIC AREAS AND WHERE DIRECTED BY THE DISTRICT. COVERS SHALL HAVE A RECESSED PROBE HOLE MADE FOR SENSUS FLEXNET RADIO READERS.
- ⑩ 3/4" DRAIN ROCK SHALL BE MECHANICALLY COMPACTED.
- ⑪ ENCASE DIP WITH V-BIO ENHANCED POLYETHYLENE ENCASEMENT.

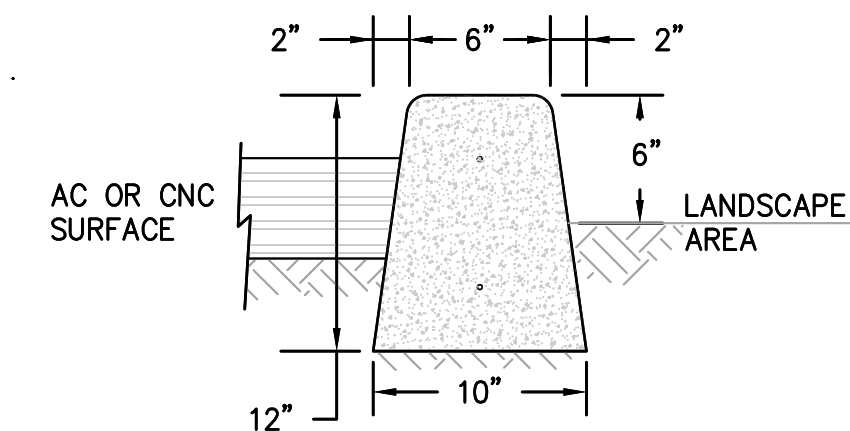
3 1" SERVICE CONNECTION DETAIL

NTS



6 ASPHALT CONCRETE PAVING

NTS

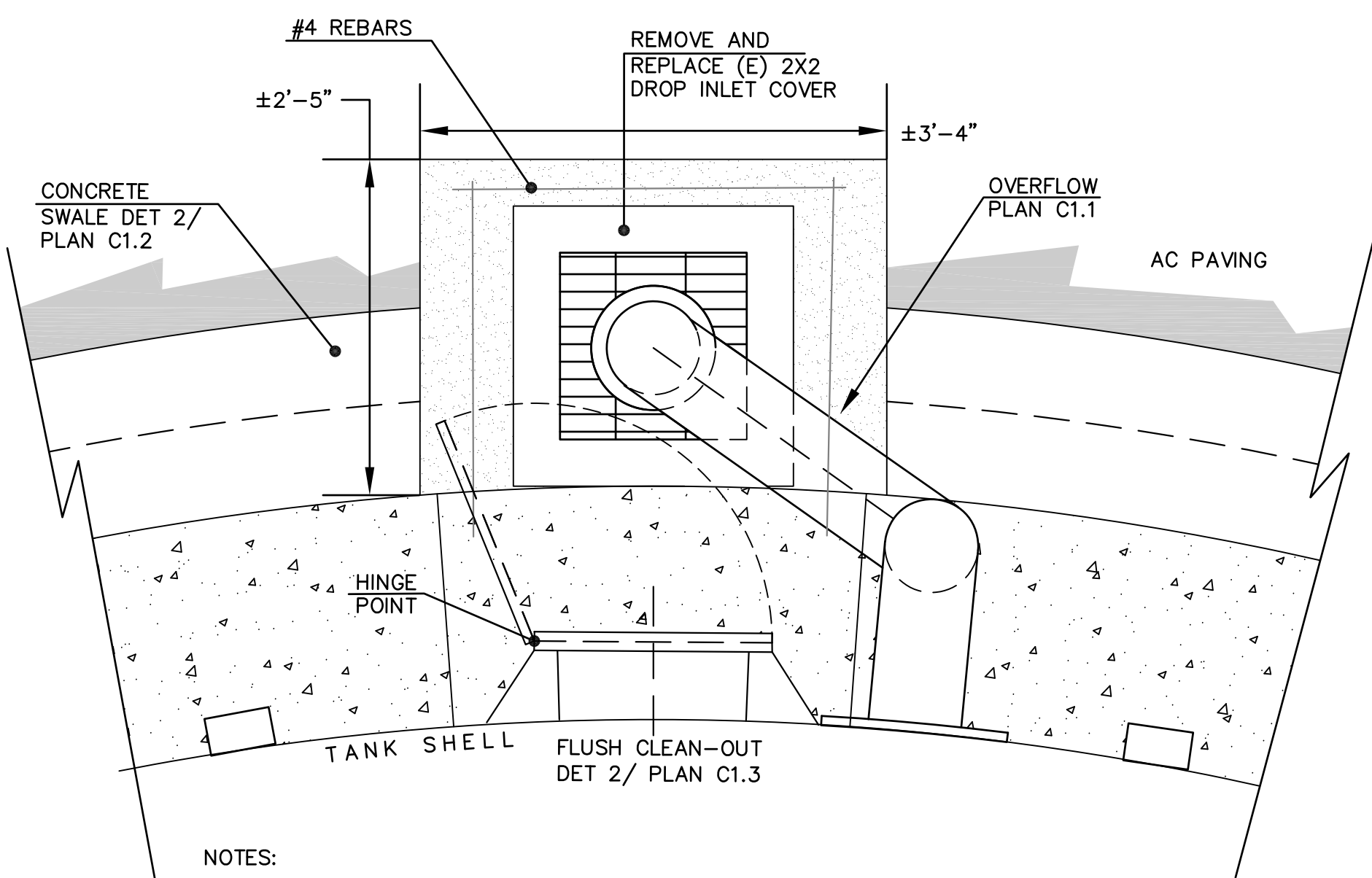


NOTES

- 1. SMOOTH FINISH ON ALL EXPOSE.
- 2. COMPACT SUBGRADE TO 95% R.C.
- 3. REINFORCEMENT: #3 BAR CONTINUOUS 6" O.C. AND 3" CLEARANCE FROM SIDES.
- 4. 1" RADIUS TOOLED AT EDGES.

7 CONCRETE VERTICAL CURB

NTS



NOTES:

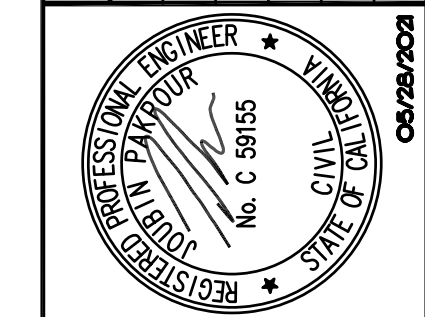
- 1. REMOVE THE (E) DROP INLET STRUCTURE AND PIPE TO INSTALL (N) DROP INLET.
- 2. USE EXTENSIONS TO BRING THE COVER TO THE FLOW LINE OF THE SWALE.
- 3. CONCRETE APRON AROUND THE DROP INLET SHALL BE POURED AT THE SAME TIME AS THE SWALE. DISTRICT MUST APPROVE THE LAYOUT OF THE APRON IN THE FIELD.
- 4. DOWEL REBARS INTO THE RING FOUNDATION.
- 5. OVERFLOW SHALL BE INSTALL AWAY FROM THE CLEAN-OUT DOOR OPENING.

4 FLUSH CLEAN-OUT/ DROP INLET/ OVERFLOW/ CONCRETE APRON DETAIL

NTS

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 DESIGNED: VICTOR FUNG
 APPROVED: VICTOR FUNG
 JOB NO: 2021-002

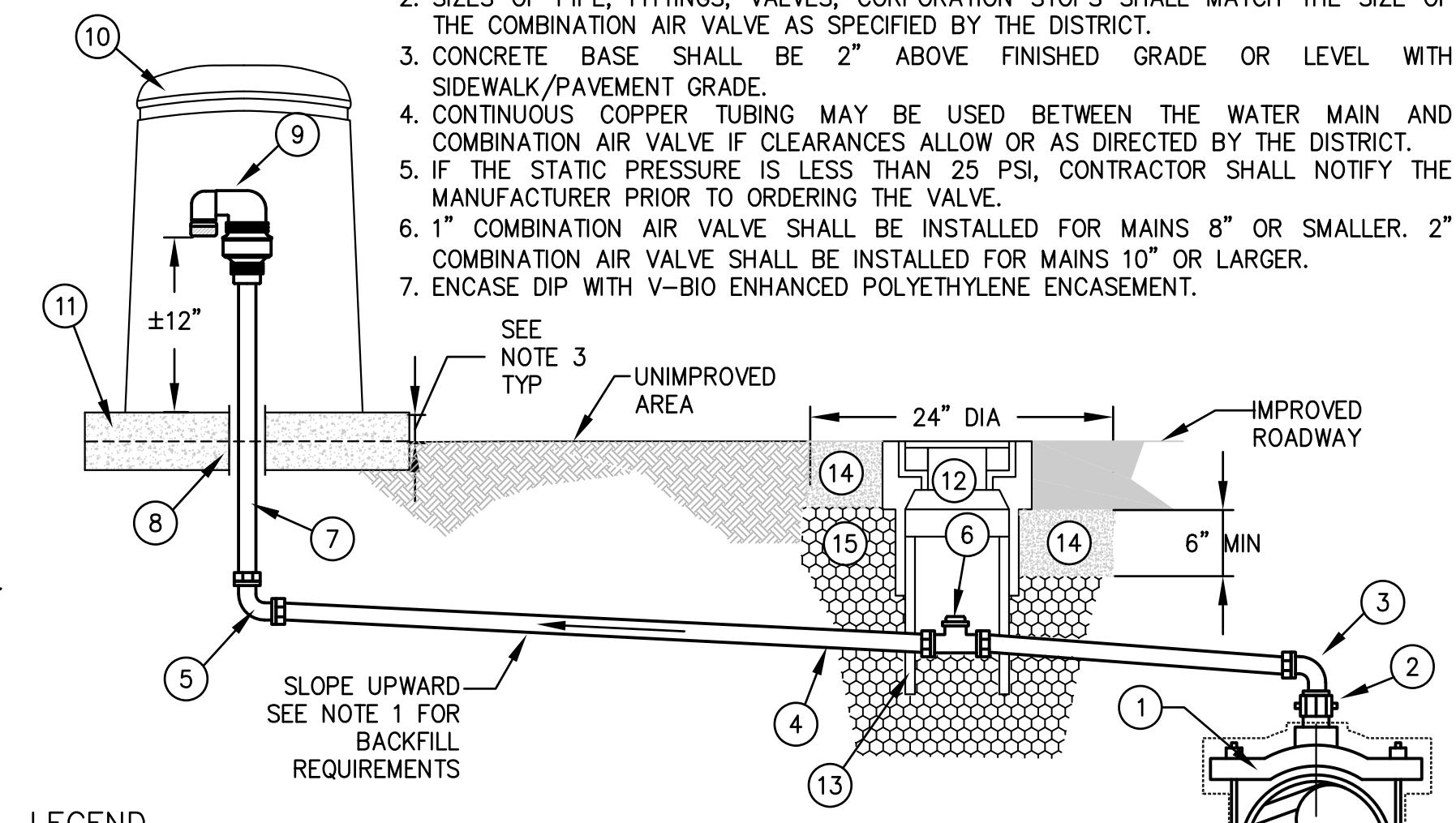
**MID-PENINSULA WATER DISTRICT
 DEKOVEN TANKS REPLACEMENT
 CONSTRUCTION DETAILS**

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| DATE | 05/28/21 | SCALE | AS NOTED |
| PCG JOB NO. | 10012.13 | PLAN | C1.7 |
| SHEET | 9 | OF | 33 |

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 PLOT DATE: 05/28/21 PLOTTED BY: V.FUNG

NOTES

- IF OPEN TRENCH METHOD IS USED, EMBEDMENT MATERIAL (QUARRY FINES) SHALL BE PLACED 2" BELOW AND 6" ABOVE COPPER LINE. BACKFILL AND COMPACT REMAINING SECTION PER DETAIL 2, PLAN C1.6.
- SIZES OF PIPE, FITTINGS, VALVES, CORPORATION STOPS SHALL MATCH THE SIZE OF THE COMBINATION AIR VALVE AS SPECIFIED BY THE DISTRICT.
- CONCRETE BASE SHALL BE 2" ABOVE FINISHED GRADE OR LEVEL WITH SIDEWALK/PAVEMENT GRADE.
- CONTINUOUS COPPER TUBING MAY BE USED BETWEEN THE WATER MAIN AND COMBINATION AIR VALVE IF CLEARANCES ALLOW OR AS DIRECTED BY THE DISTRICT.
- IF THE STATIC PRESSURE IS LESS THAN 25 PSI, CONTRACTOR SHALL NOTIFY THE MANUFACTURER PRIOR TO ORDERING THE VALVE.
- 1" COMBINATION AIR VALVE SHALL BE INSTALLED FOR MAINS 8" OR SMALLER. 2" COMBINATION AIR VALVE SHALL BE INSTALLED FOR MAINS 10" OR LARGER.
- ENCASE DIP WITH V-BIO ENHANCED POLYETHYLENE ENCASMENT.

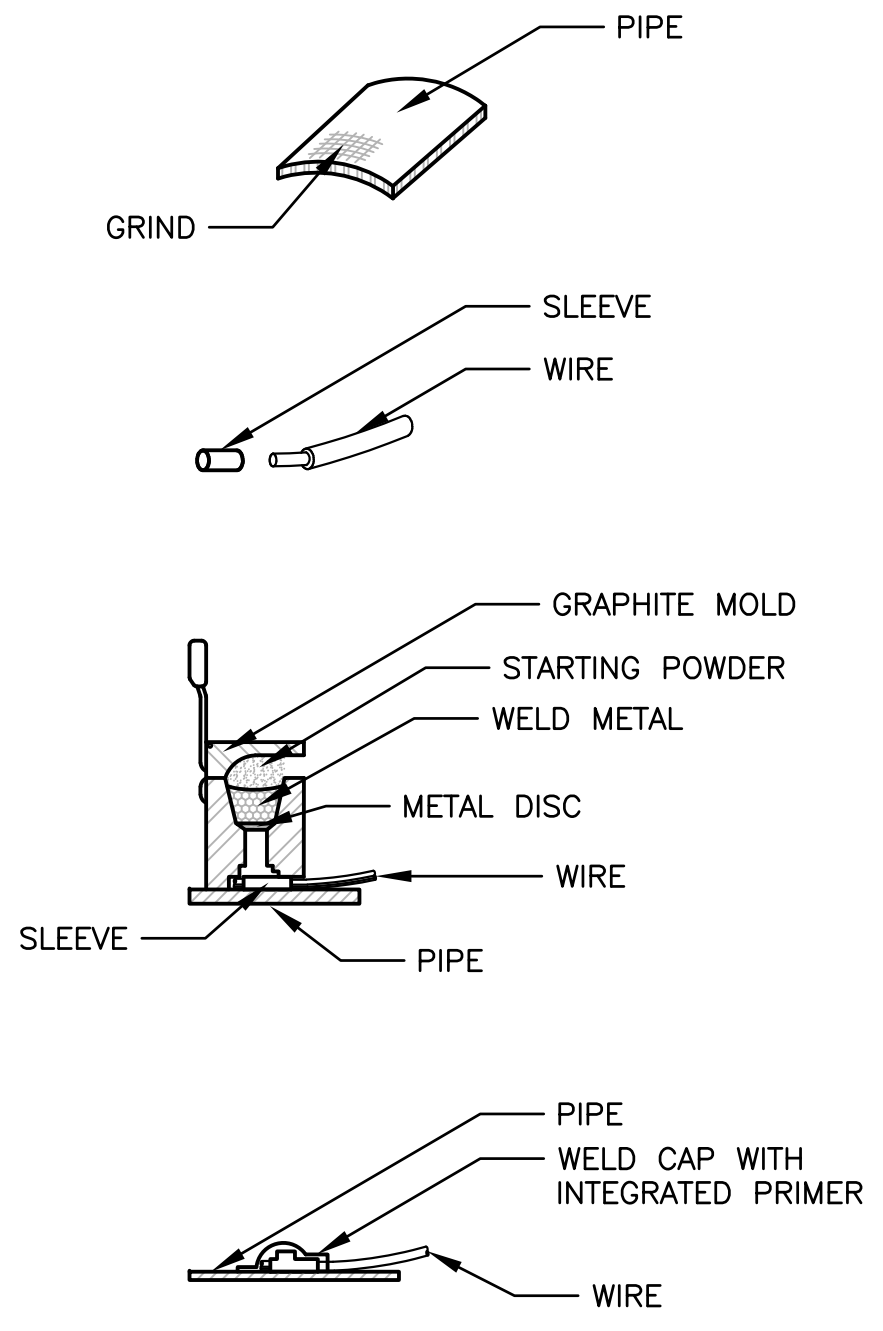


LEGEND

- DOUBLE STRAP BRONZE SERVICE SADDLE MUELLER BR2B "CC" FOR DIP AND MUELLER BR2S "CC" FOR PVC.
- INSULATED CORPORATION STOP, MUELLER N-30045N (CCXFIP).
- 90° MIP X COMP MULLER FITTING.
- TYPE K COPPER TUBING. COPPER PIPE SHALL HAVE BLUE SEAMLESS POLYETHYLENE COAT DISTRIBUTED BY MUELLER STREAMLINE CO. MAINTAIN UPWARD SLOPE. UNIONS OR COUPLINGS NOT PERMITTED.
- 90° COMP X COMP MUELLER FITTING.
- F.I.P X F.I.P BALL STRAIGHT METER VALVE, MUELLER B-20200N.
- BRASS PIPE (LOW LEAD).
- SDR 35 PVC - 3" DIA.
- COMBINATION AIR VALVE A.R.I D-040, WITH STAINLESS STEEL SCREEN.(FUNCTIONS AS BOTH AIR RELEASE AND AIR/VACUUM VALVES).
- ENCLOSURE PIPELINE PRODUCTS, VCAS-1424. COLOR SHALL BE GREEN AND INSTALLED LEVEL. (PADLOCK FURNISHED BY DISTRICT)
- CONCRETE BASE 4" x 24" DIA W/STEEL WIRE MESH IN MIDDLE. BASE SHALL BE INSTALLED LEVEL.
- TRAFFIC VALVE BOX, CHRISTY CONCRETE NO. G05T WITH CAST IRON TRAFFIC COVER INSCRIBED "WATER", CHRISTY CONCRETE NO G05CT.
- SDR 35 PVC RISER - 8" MIN DIA.
- 2,000 PSI CONCRETE COLLAR. 24 HOURS MIN CURE PRIOR TO PLACEMENT OF ASPHALT.
- BACKFILL MATERIAL PER APPLICABLE DETAIL 2, PLAN C1.6

STEPS

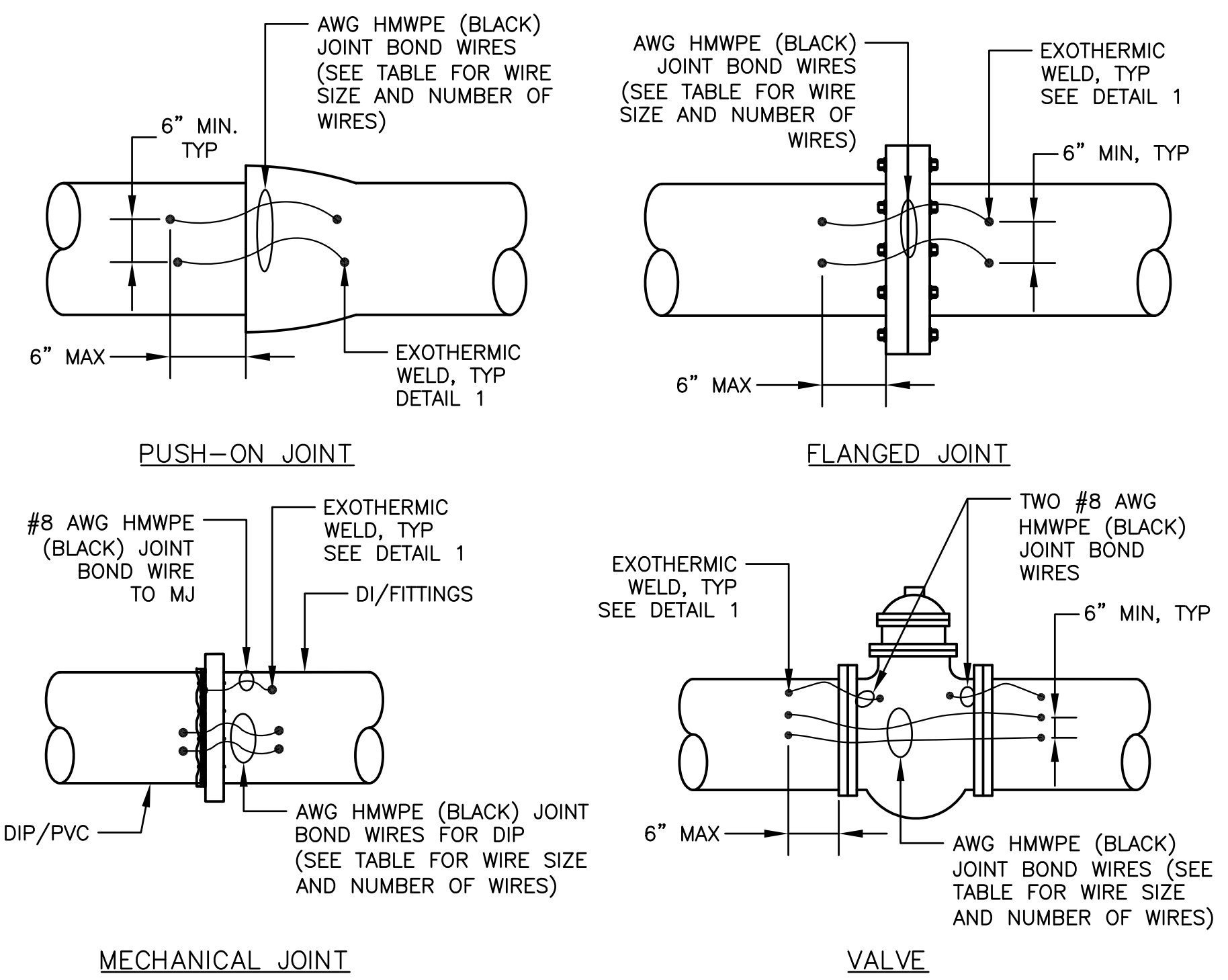
- ALL WELDS SHALL BE 6" APART AT MINIMUM.
- GRIND PIPE TO BARE METAL AND CLEAN SURFACE. GROUND AREA SHALL BE LARGE ENOUGH FOR EXOTHERMIC WELD AND SMALL ENOUGH TO BE COMPLETELY COVERED BY WELD CAP.
- STRIP INSULATION FROM WIRE AND ATTACH SLEEVE.
- HOLD MOLD FIRMLY WITH OPENING AWAY FROM OPERATOR. IGNITE WITH FLINT GUN. REMOVE SLAG FROM CONNECTION WITH CHIPPING HAMMER. TEST WELD WITH 22 OZ HAMMER.
- COVER WITH WELD CAP WITH INTEGRATED PRIMER. REPAIR ALL DAMAGE TO COATING BEYOND WELD IN ACCORDANCE WITH COATING AND LINING MFG RECOMMENDATIONS.



NOTES

PIN BRAZING SHALL BE ALLOWED UPON DISTRICT APPROVAL.

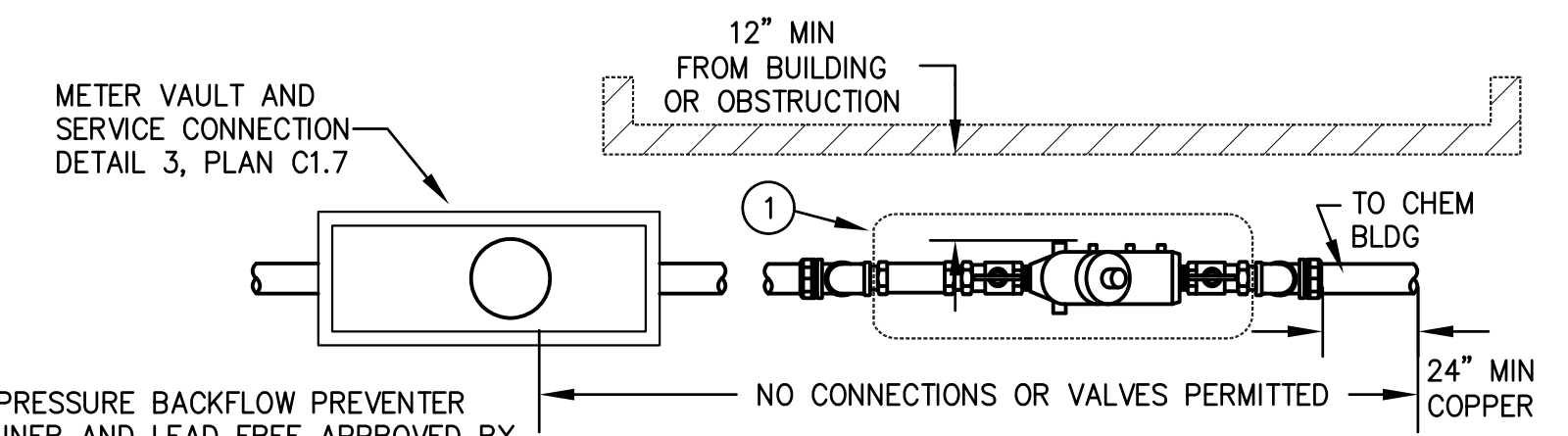
1 EXOTHERMIC DETAIL
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| PIPE DIAMETER | 6" | 8" | 10" | 12" | 18" | 24" |
|-----------------|----|----|-----|-----|-----|-----|
| WIRE SIZE* | #4 | #4 | #4 | #2 | #2 | #2 |
| NUMBER OF WIRES | 2 | 2 | 2 | 2 | 3 | 4 |

*WIRE SIZES ARE SHOWN FOR CLASS 50 DIP

2 PILE JOINT BONDING DETAIL
NTS



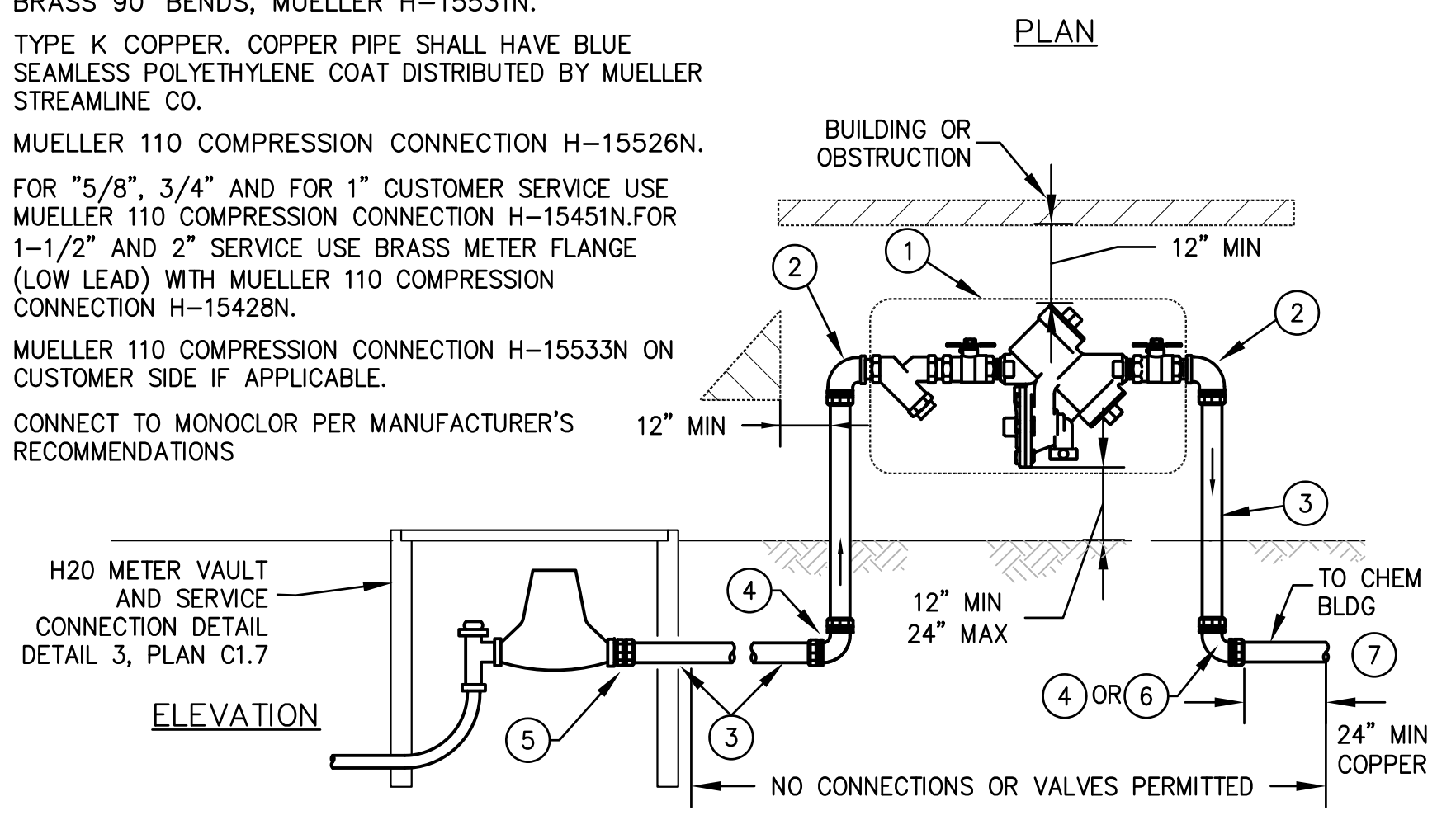
LEGEND

- REDUCED PRESSURE BACKFLOW PREVENTER WITH STRAINER AND LEAD FREE APPROVED BY SAN MATEO COUNTY HEALTH SYSTEM.
- BRASS 90° BENDS, MUELLER H-15531N.
- TYPE K COPPER. COPPER PIPE SHALL HAVE BLUE SEAMLESS POLYETHYLENE COAT DISTRIBUTED BY MUELLER STREAMLINE CO.
- MUELLER 110 COMPRESSION CONNECTION H-15526N.
- FOR 5/8", 3/4" AND FOR 1" CUSTOMER SERVICE USE MUELLER 110 COMPRESSION CONNECTION H-15451N.FOR 1-1/2" AND 2" SERVICE USE BRASS METER FLANGE (LOW LEAD) WITH MUELLER 110 COMPRESSION CONNECTION H-15428N.
- MUELLER 110 COMPRESSION CONNECTION H-15533N ON CUSTOMER SIDE IF APPLICABLE.
- CONNECT TO MONOCLOR PER MANUFACTURER'S RECOMMENDATIONS

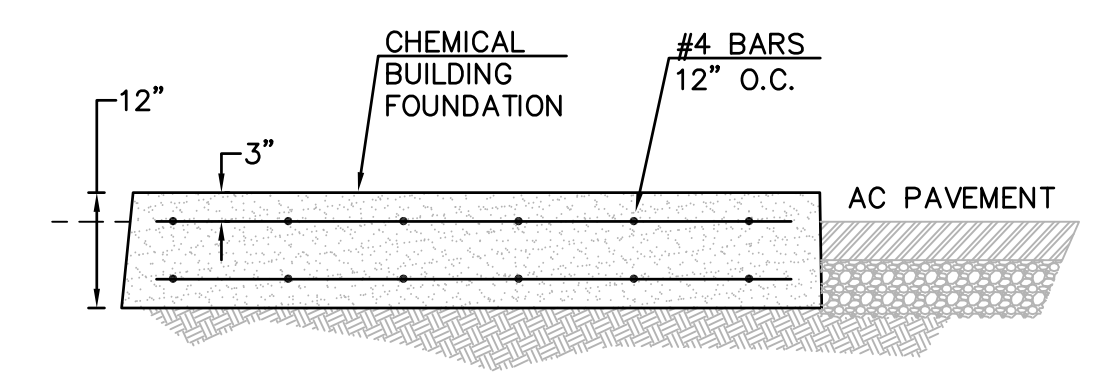
REQUIREMENTS

- REDUCED PRESSURE BACKFLOW ASSEMBLIES ARE REQUIRED ON ALL SERVICE CONNECTIONS TO PROPERTIES THAT HAVE A SUPPLEMENTAL SOURCE OF WATER, A FIRE SPRINKLER SYSTEM, WELL, IRRIGATION SYSTEM THAT HAS AN AUTOMATIC CHEMICAL FEEDING CONTROL, PUMPS, MULTI STORY BUILDING OR ANY OTHER INSTANCE THAT MAY CONTAMINATE POTABLE WATER SUPPLY OR AS DIRECTED BY THE DISTRICT.
- ALL REDUCED PRESSURE BACKFLOW ASSEMBLIES SHALL BE INSTALLED ON CUSTOMER PROPERTY ADJACENT TO THE METER.
- FAILURE TO PROVIDE REDUCED PRESSURE BACKFLOW PROTECTION WILL RESULT IN WATER SERVICE SHUTDOWN PER TITLE 17, SECTION 7583-7605 OF THE STATE OF CALIFORNIA CODE OF REGULATIONS (TITLE 17, DIVISION 1, CHAPTER 5, SUB-CHAPTER 1, GROUP 4, ARTICLES 1 AND 2).
- ENCLOSURE USED FOR BACKFLOW ASSEMBLY SHALL BE APPROVED BY THE DISTRICT.
- BACKFLOW ASSEMBLY SHALL BE TESTED AND CERTIFIED BY A SAN MATEO COUNTY'S CERTIFIED TESTER PRIOR TO BEING PUT IN SERVICE.
- VERTICAL INSTALLATIONS ARE ALLOWED BUT REQUIRE DISTRICT APPROVAL PRIOR TO DESIGN AND INSTALLATION.
- PRE-APPROVAL BY THE DISTRICT IS REQUIRED FOR ANY PRESSURE SYSTEM INSTALLATION.
- CONNECTION TO THE CHEMICAL FEED BUILDING SHALL BE COORDINATED WITH THE DISTRICT.

4 PRESSURE BACKFLOW PREVENTER ASSEMBLY
NTS



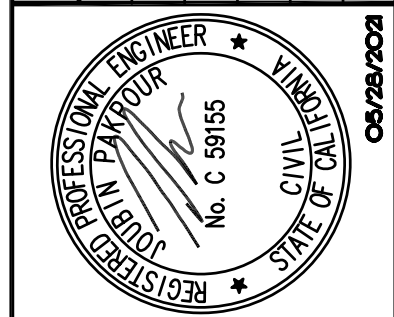
3 1 1/2" COMBINATION AIR VALVE DETAIL
NTS



5 FOUNDATION PAD DETAIL
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**MID-PENINSULA WATER DISTRICT
DEKOVEN TANKS REPLACEMENT
CONSTRUCTION DETAILS**

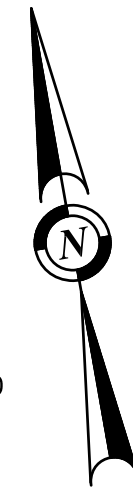
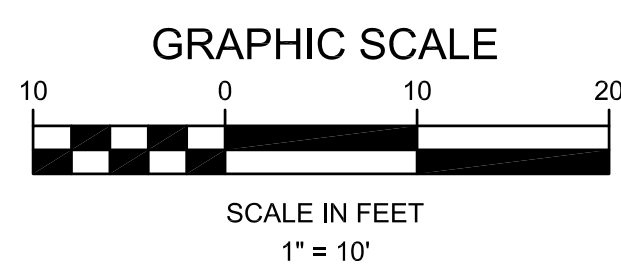
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PLOT DATE: 05/28/21 PLOTTED BY: VFW

CONSTRUCTION NOTES

- ① PROTECT (E) INLETS WITH SEDIMENT CONTROL SACK/BAG.
- ② LIMITS OF SILT FENCE MAY BE ADJUSTED IN THE FIELD.
- ③ SECURELY ATTACH PERFORATED FENCE SCREEN TO THE EXISTING CHAIN LINK FENCE.
- ④ SECURELY ATTACH PERFORATED PROTECTIVE NETTING 10' HIGH BETWEEN TREES.
- ⑤ CONTRACTOR SHALL HAVE (1,000 GALS) PORTABLE WATER TRAILER WITH A PUMP ON SITE FOR FIRE PROTECTION DURING DEMOLITION AND TANK INSTALLATION. LOCATION TO BE DETERMINED BY CONTRACTOR OR AT THE SOUTH EAST CORNER. WATER TANK SHALL BE FILLED EVERY MORNING OR AFTERNOON. CONTRACTOR MAY RUN A TEMPORARY CONNECTION TO THE (E) FIRE HYDRANT (STATIC PRESSURE 64 PSI).
- ⑥ CONTRACTOR SHALL TURN ON THE SPRINKLERS DURING ANY TORCHING (DEMOLITION) OR WELDING (INSTALLATION) OPERATIONS OF THE TANKS.
- ⑦ PROTECT THE TEMPORARY T-MOBILE BALLASTED TOWER.
- ⑧ (E) FIRE HYDRANT FOR CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH THE DISTRICT TO RENT A WATER METER CONNECTION.
- ⑨ PROTECT (E) TREES PER BY PLACING 2"x4" BOARDS (8-10' HEIGHT) SPACED EVENLY AROUND THE TREE AND ; WRAP TRUNK WITH STRAW WATTLES. SECURE THE BOARDS AND WATTLE WITH ORANGE PLASTIC FENCING TIGHTLY WITH CABLE TIES. TOTAL 5
- ⑩ SECURE HEAVY RUMBLE GRATES TO THE AC PAVEMENT.

LEGEND

- SILET FENCE OER DETAIL 1/PLAN C1.6
- - - - PERFORATED FENCE SCREEN
- ~ ~ ~ ~ PERFORATED GREEN PROTECTIVE SHIELD
- ○ ○ ○ 0.75" IRRIGATION LINE WITH SPIKE LAWN SPRINKLERS (180'/360' COVERAGE) WITH ATTACHMENTS

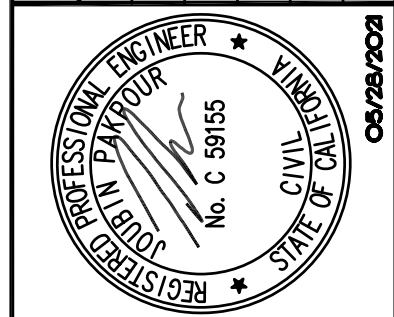


| EAST TANK | EXISTING | PROPOSED |
|---------------------------|----------|----------|
| VOLUME (MG) | 1.0 | 0.95 |
| TANK HEIGHT (FT) | 48.0 | 46.0 |
| TANK DIAMETER (FT) | 60.0 | 60.0 |
| BOTTOM ELEV (FT) | 591.0 | 593.0 |
| TOP OF SHELL ELEV (FT) | 639.0 | 639.0 |
| TOP OF OVERFLOW ELEV (FT) | 638.0 | 638.0 |

| WEST TANK | EXISTING | PROPOSED |
|---------------------------|----------|----------|
| VOLUME (MG) | 0.72 | 0.80 |
| TANK HEIGHT (FT) | 48.0 | 46.0 |
| TANK DIAMETER (FT) | 51.0 | 55.0 |
| BOTTOM ELEV (FT) | 591.0 | 593.0 |
| TOP OF SHELL ELEV (FT) | 639.0 | 639.0 |
| TOP OF OVERFLOW ELEV (FT) | 638.0 | 638.0 |

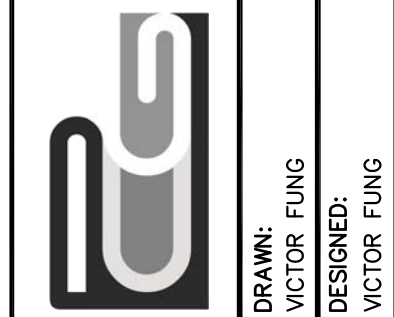
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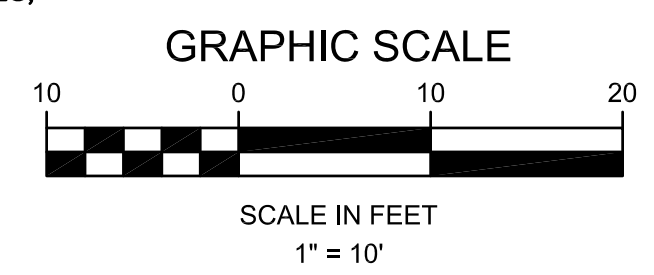
**MID-PENINSULA WATER DISTRICT
DEKOVEN TANKS REPLACEMENT
ENVIRONMENTAL, FIRE PROTECTION, AND
STORM WATER POLLUTION CONTROL PLAN**

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| DATE | 05/28/21 | SCALE | AS NOTED |
| PCG JOB NO. | 10012.13 | PLAN | C2.1 |
| | | SHEET | 11 OF 33 |

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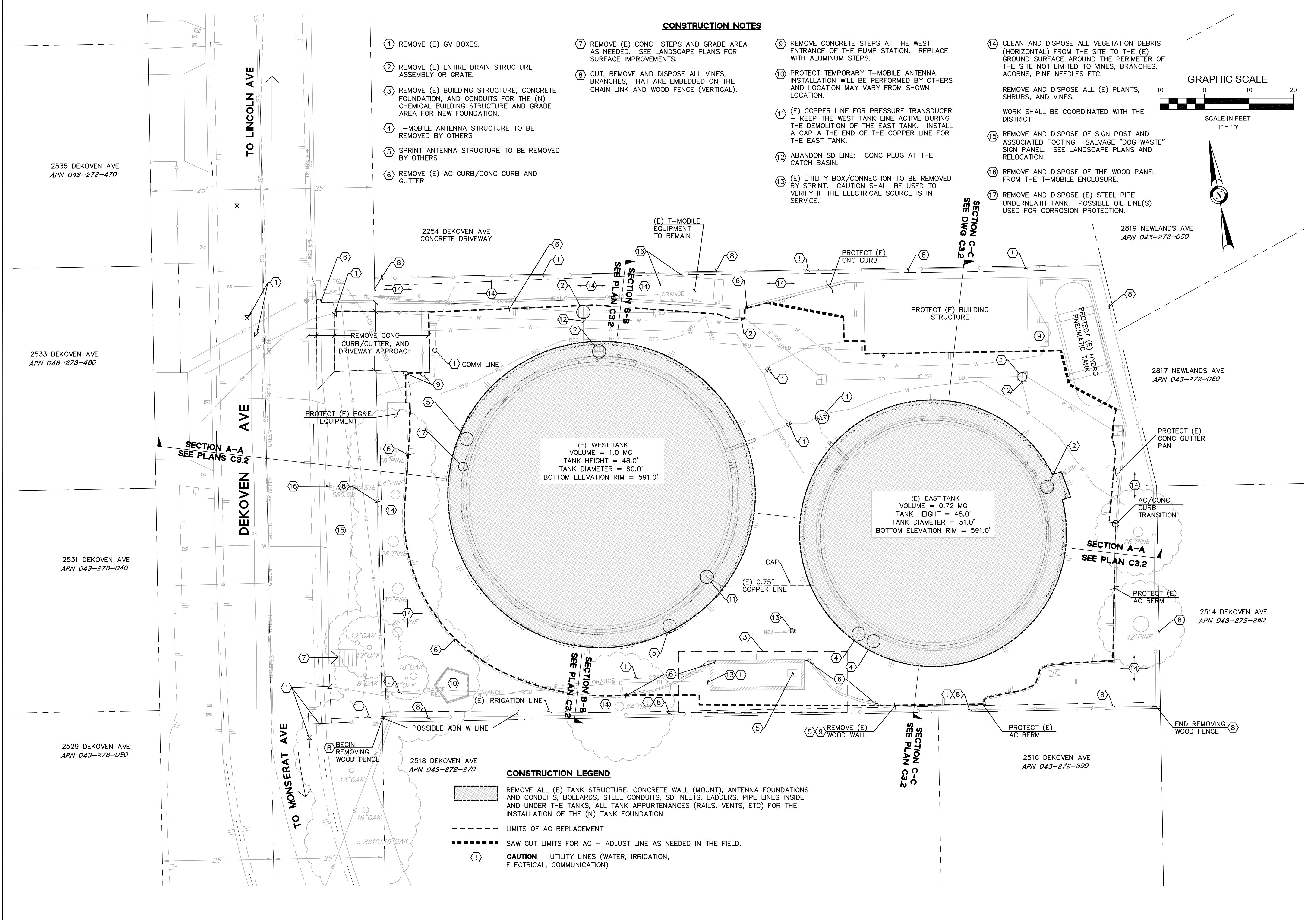
CONSTRUCTION NOTES

- 1 REMOVE (E) GV BOXES.
- 2 REMOVE (E) ENTIRE DRAIN STRUCTURE ASSEMBLY OR GRATE.
- 3 REMOVE (E) BUILDING STRUCTURE, CONCRETE FOUNDATION, AND CONDUITS FOR THE (N) CHEMICAL BUILDING STRUCTURE AND GRADE AREA FOR NEW FOUNDATION.
- 4 T-MOBILE ANTENNA STRUCTURE TO BE REMOVED BY OTHERS
- 5 SPRINT ANTENNA STRUCTURE TO BE REMOVED BY OTHERS
- 6 REMOVE (E) AC CURB/CONC CURB AND GUTTER
- 7 REMOVE (E) CONC STEPS AND GRADE AREA AS NEEDED. SEE LANDSCAPE PLANS FOR SURFACE IMPROVEMENTS.
- 8 CUT, REMOVE AND DISPOSE ALL VINES, BRANCHES, THAT ARE EMBEDDED ON THE CHAIN LINK AND WOOD FENCE (VERTICAL).
- 9 REMOVE CONCRETE STEPS AT THE WEST ENTRANCE OF THE PUMP STATION. REPLACE WITH ALUMINUM STEPS.
- 10 PROTECT TEMPORARY T-MOBILE ANTENNA. INSTALLATION WILL BE PERFORMED BY OTHERS AND LOCATION MAY VARY FROM SHOWN LOCATION.
- 11 (E) COPPER LINE FOR PRESSURE TRANSDUCER - KEEP THE WEST TANK LINE ACTIVE DURING THE DEMOLITION OF THE EAST TANK. INSTALL A CAP AT THE END OF THE COPPER LINE FOR THE EAST TANK.
- 12 ABANDON SD LINE: CONC PLUG AT THE CATCH BASIN.
- 13 (E) UTILITY BOX/CONNECTION TO BE REMOVED BY SPRINT. CAUTION SHALL BE USED TO VERIFY IF THE ELECTRICAL SOURCE IS IN SERVICE.
- 14 CLEAN AND DISPOSE ALL VEGETATION DEBRIS (HORIZONTAL) FROM THE SITE TO THE (E) GROUND SURFACE AROUND THE PERIMETER OF THE SITE NOT LIMITED TO VINES, BRANCHES, ACORNS, PINE NEEDLES ETC.

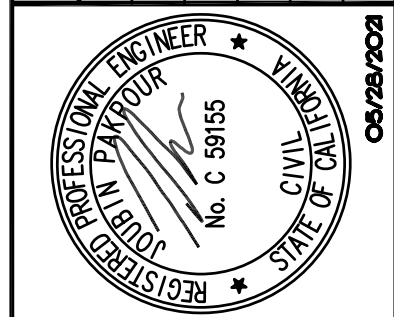


CONSTRUCTION LEGEND

- REMOVE ALL (E) TANK STRUCTURE, CONCRETE WALL (MOUNT), ANTENNA FOUNDATIONS AND CONDUITS, BOLLARDS, STEEL CONDUITS, SD INLETS, LADDERS, PIPE LINES INSIDE AND UNDER THE TANKS, ALL TANK APPURTENANCES (RAILS, VENTS, ETC) FOR THE INSTALLATION OF THE (N) TANK FOUNDATION.
- LIMITS OF AC REPLACEMENT
- SAW CUT LIMITS FOR AC - ADJUST LINE AS NEEDED IN THE FIELD.
- CAUTION** - UTILITY LINES (WATER, IRRIGATION, ELECTRICAL, COMMUNICATION)



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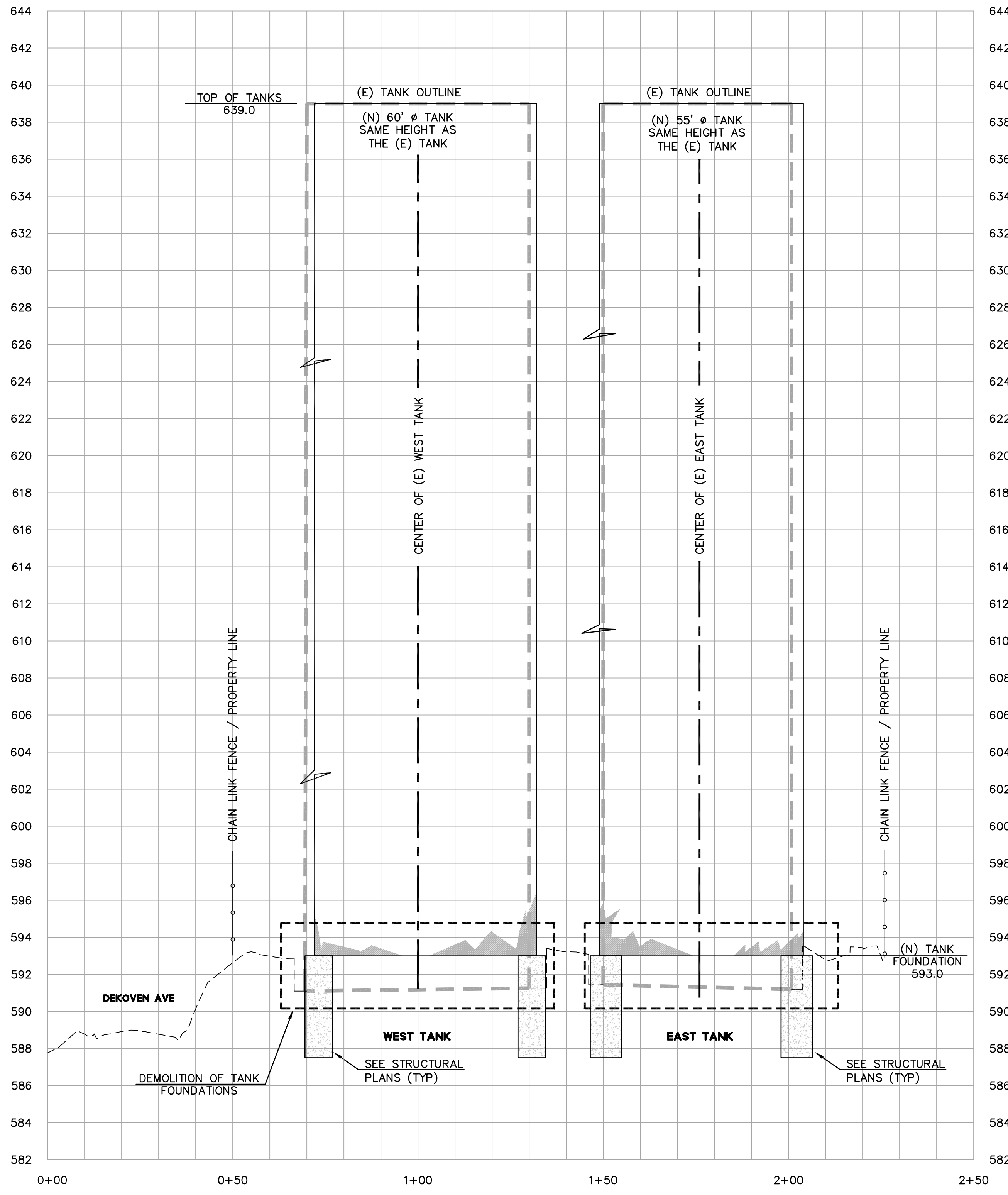
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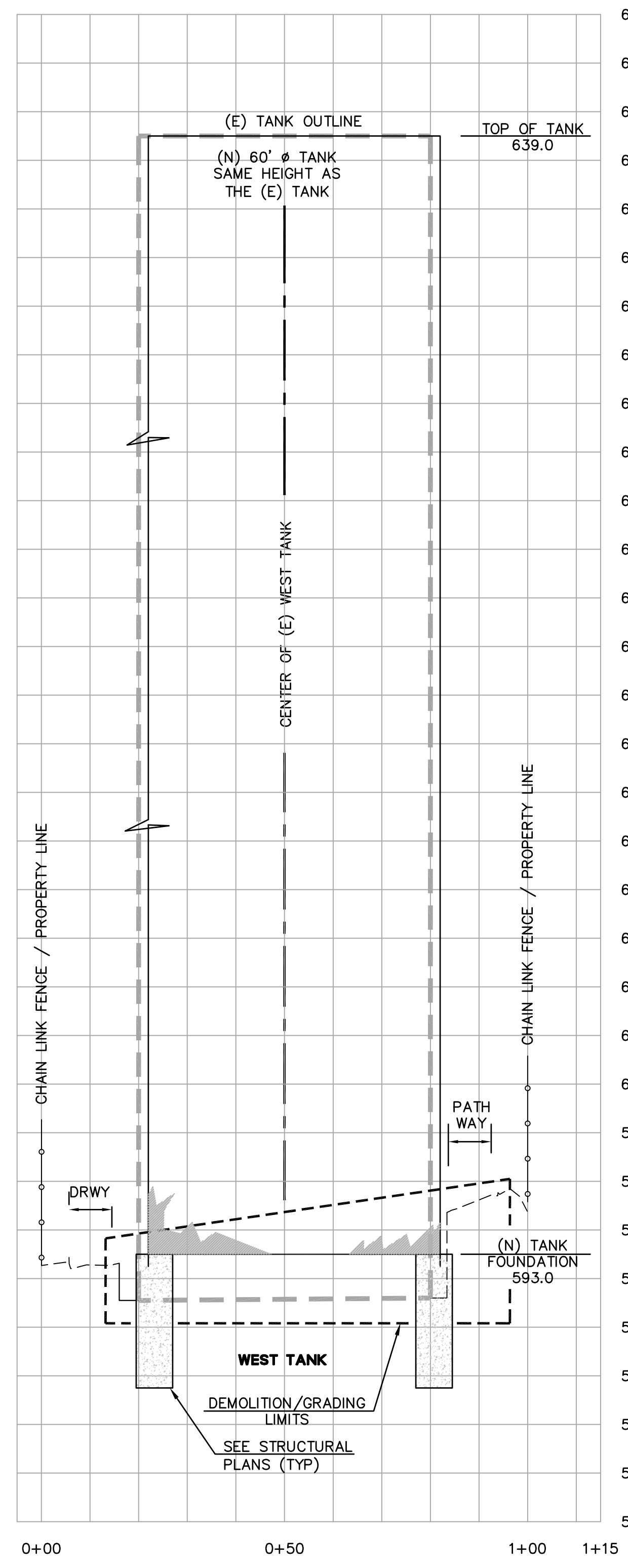
**MID-PENINSULA WATER DISTRICT
 DEKOVEN TANKS REPLACEMENT
 DEMOLITION PLAN
 AND SITE CONDITIONS**

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| DATE | 05/28/21 | SCALE | AS NOTED |
| PCG JOB NO. | 10012.13 | PLAN | C3.1 |
| SHEET | 12 | OF | 33 |

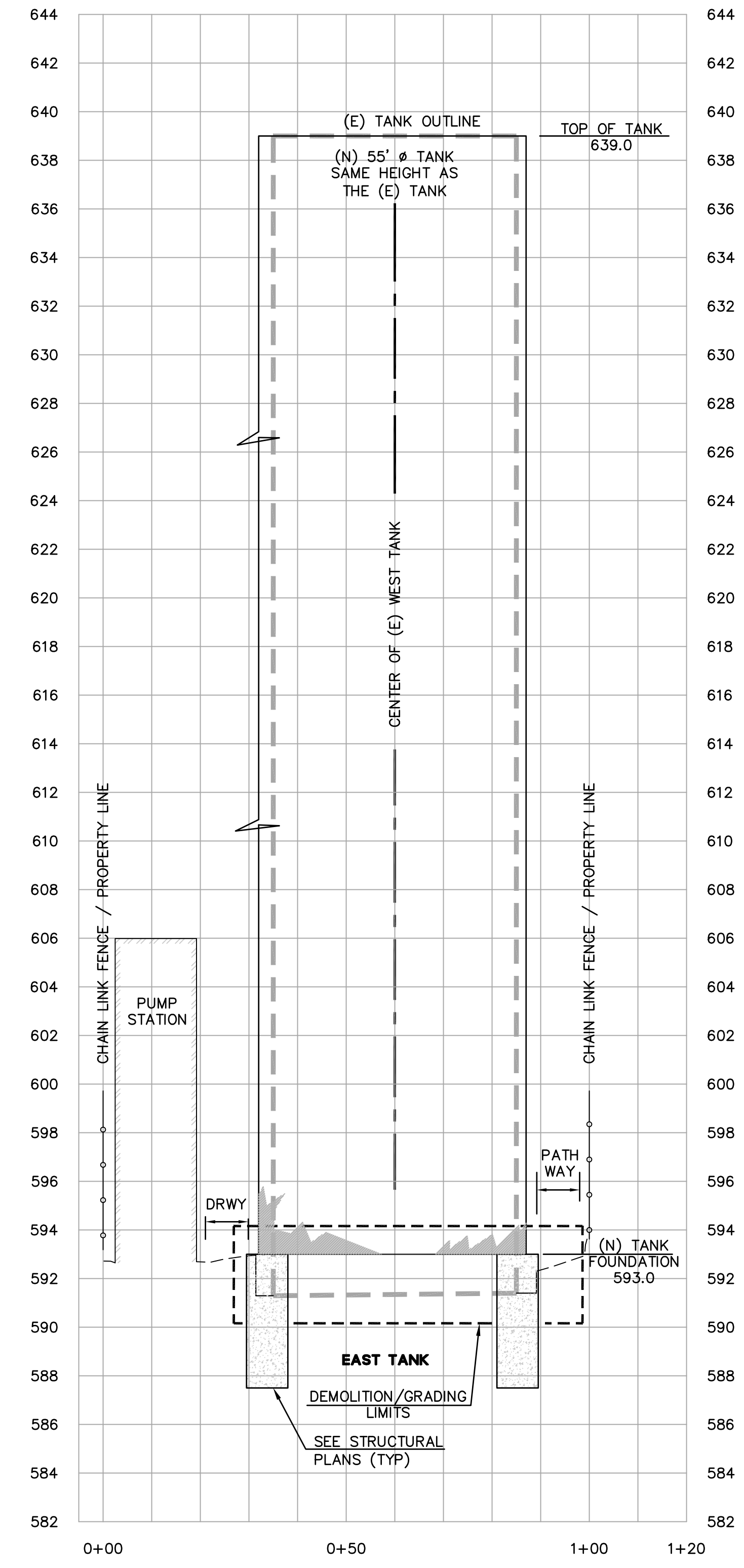
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SECTION A-A
 HORZ SCALE 1" = 20'
 VERT SCALE 1" = 4'



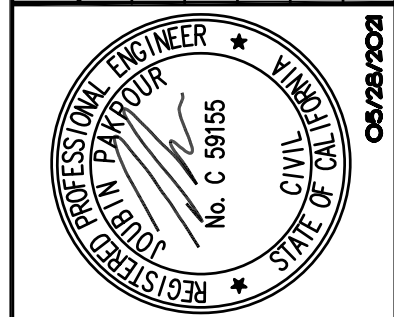
SECTION B-B
 HORZ SCALE 1" = 20'
 VERT SCALE 1" = 4'



SECTION C-C
 HORZ SCALE 1" = 20'
 VERT SCALE 1" = 4'

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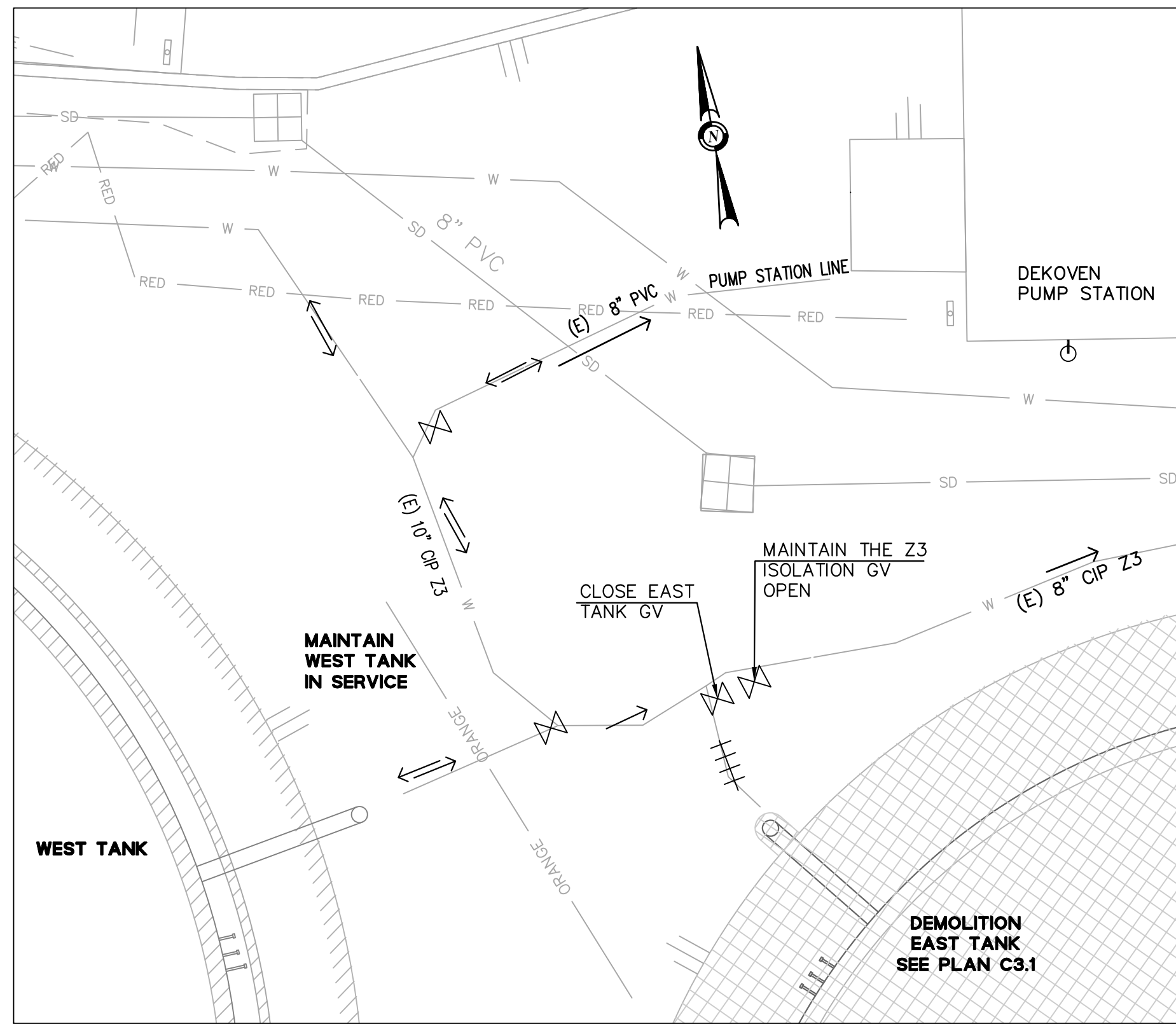
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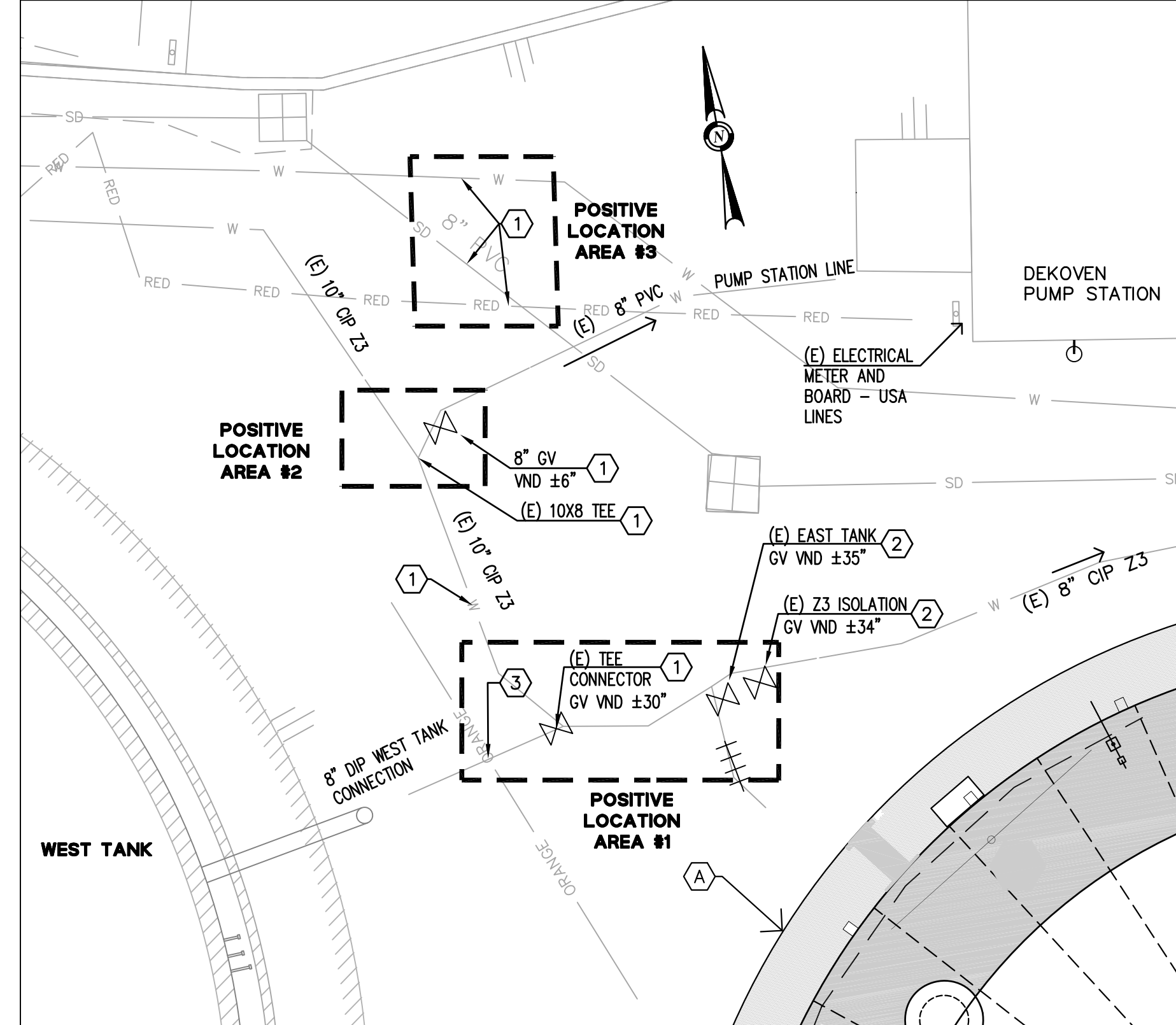
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MID-PENINSULA WATER DISTRICT
DEKOVEN TANKS REPLACEMENT
DEMOLITION PLAN CROSS SECTIONS

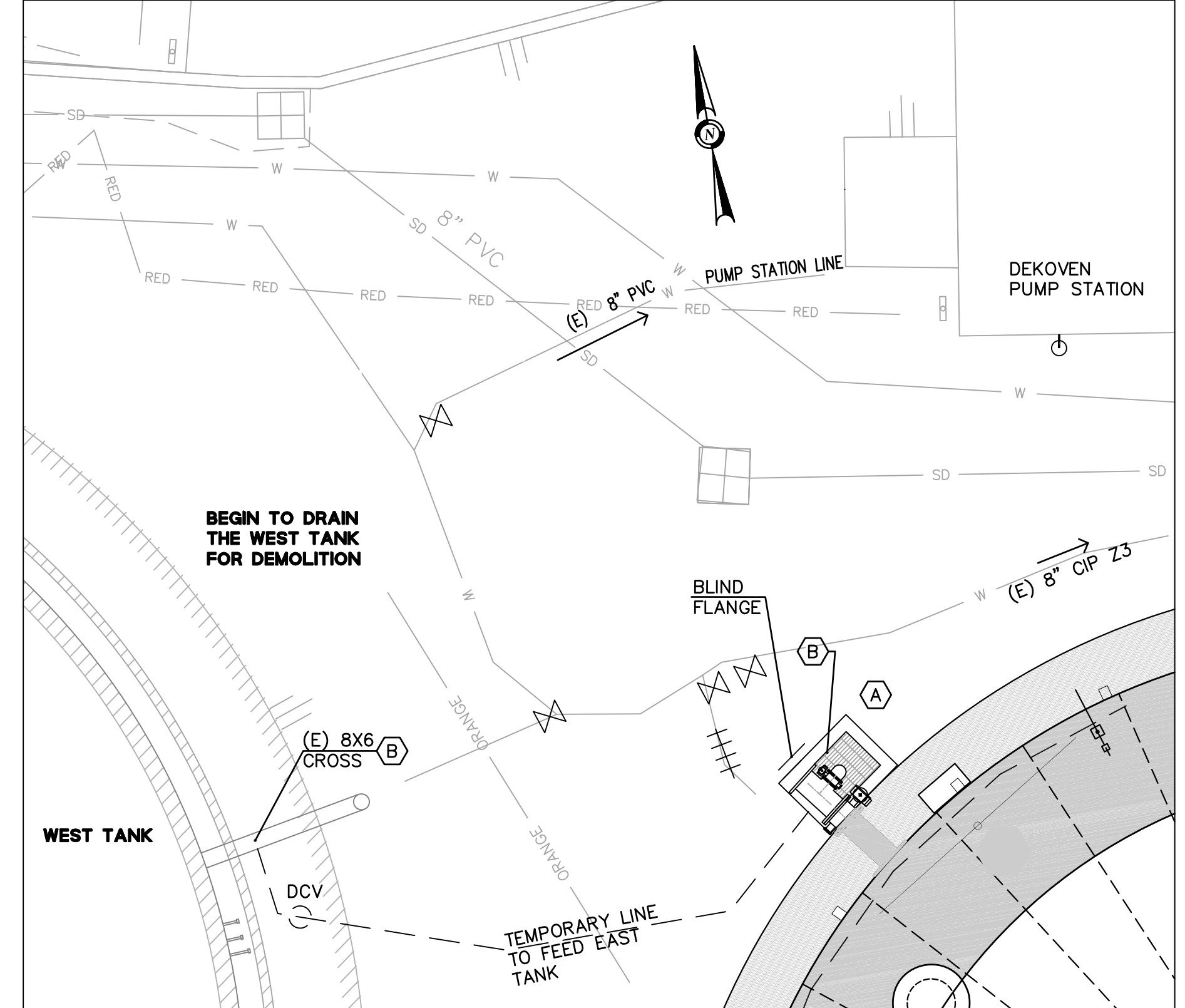
DATE: 05/28/21 SCALE: AS NOTED
 PCG JOB NO.: 10012.13
 PLAN: **C3.2**
 SHEET: **13 OF 33**



PHASE 1 – EAST TANK DEMOLITION
SCALE: 1" = 5'



PHASE 2 – POSITIVE LOCATIONS OF THE (E) 10\"/>



PHASE 3 – LOADING THE EAST TANK
SCALE: 1" = 5'

DRAINING AND USAGE OF THE EAST TANK

1. PRIOR TO THE BEGINNING OF CONSTRUCTION, THE DISTRICT WILL ATTEMPT TO USE THE EAST TANK AS THE PRIMARY SOURCE OF WATER BEFORE CONSTRUCTION. EXPECT STANDING WATER INSIDE THE TANK. CONTRACTOR WILL BE RESPONSIBLE TO DRAIN AND PUMP THE REMAINING WATER.
2. BMP'S SHALL BE IN PLACE BEFORE DISCHARGING THE WATER.
3. WATER MUST BE DE-CHLORINATED BEFORE BEING DISCHARGED FROM THE TANK. CONTRACTOR MUST USE A FILTER SOCK WITH DE-CHLORINATION TABLETS.
4. DRAINING THE TANK INTO THE SD IS ALLOWED WITH DE-CHLORINATION TABLETS.

POSITIVE LOCATION #1 FOR THE TEE CONNECTOR/VALVE AND THE 10\"/>

1. VERIFY THE SIZE, DEPTH, MATERIAL, ALIGNMENT AND CONNECTION TYPE OF THE TEE CONNECTOR/GV ASSEMBLY TO DETERMINE THE GRADE OF (N) 12X8 TEE AND THE 12\"/>
2. VERIFY THE SIZE, DEPTH, MATERIAL, ALIGNMENT AND CONNECTION TYPE OF THE TEE AND GV'S ASSEMBLY TO DETERMINE THE GRADE OF (N) 8\"/>
3. VERIFY THE SIZE, DEPTH, MATERIAL, OF THE (E) UTILITY LINE.

POSITIVE LOCATION #2 FOR THE TEE/VALVE AND 8\"/>

1. VERIFY THE SIZE, DEPTH, MATERIAL, ALIGNMENT AND CONNECTION TYPE OF THE GV/TEE ASSEMBLY TO THE PUMP STATION TO DETERMINE THE GRADE OF (N) 12\"/>

POSITIVE LOCATION #3 FOR THE COMBINATION AIR VALVE

1. VERIFY THE SIZE, DEPTH, MATERIAL, ALIGNMENT AND CONNECTION TYPE OF THE (E) WATER MAIN, ELECTRICAL LINE, AND SD TO DETERMINE THE GRADE OF (N) COMBINATION AIR VALVE COPPER LINE.

CONSTRUCTION LEGEND NOTES

- A CONSTRUCTION OF THE EAST TANK. SEE PLANS C5.1 THRU C5.4.

CONSTRUCTION LEGEND NOTES

- A EAST TANK DROP INLET. INSTALL 3X2 DROP INLET UNDER THE 6\"/>
- B EAST TANK I/O ASSEMBLY. INSTALL 12\"/>

TEMPORARILY INSTALL A 6\"/>

DISINFECTION NOTES

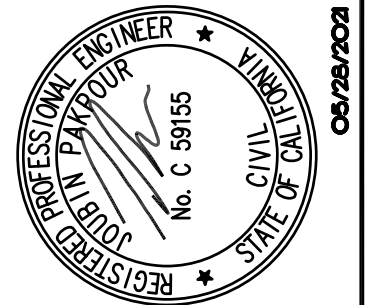
1. ALL PIPE AND APPURTENANCES SHALL BE SWABBED AND DISINFECTED TO THE SATISFACTION OF THE DISTRICT PRIOR TO INTRODUCING WATER TO THE TANK.
2. HYDRO TEST THE TANK. SAMPLE AND TESTING PROCEDURE PER SECTION SPECIFICATIONS.
3. TANK MUST PASS THE TASTE AND ODOR TEST BY THE DISTRICT BEFORE PUTTING THE TANK IN SERVICE.

DRAINING AND USAGE OF THE WEST TANK

1. DISTRICT WILL USE THE WEST TANK AS THE PRIMARY SOURCE OF WATER UNTIL THE EAST TANK IS CONSTRUCTED AND READY TO BE PLACED IN SERVICE.
2. CONTRACTOR IS RESPONSIBLE TO DRAIN AND PUMP THE REMAINING WATER IN THE TANK.
3. BMP'S SHALL BE IN PLACE BEFORE DISCHARGING THE WATER.
4. WATER MUST BE DE-CHLORINATED BEFORE BEING DISCHARGE FROM THE TANK. CONTRACTOR MUST USE A FILTER SOCK WITH DE-CHLORINATION TABLETS.

REVISIONS

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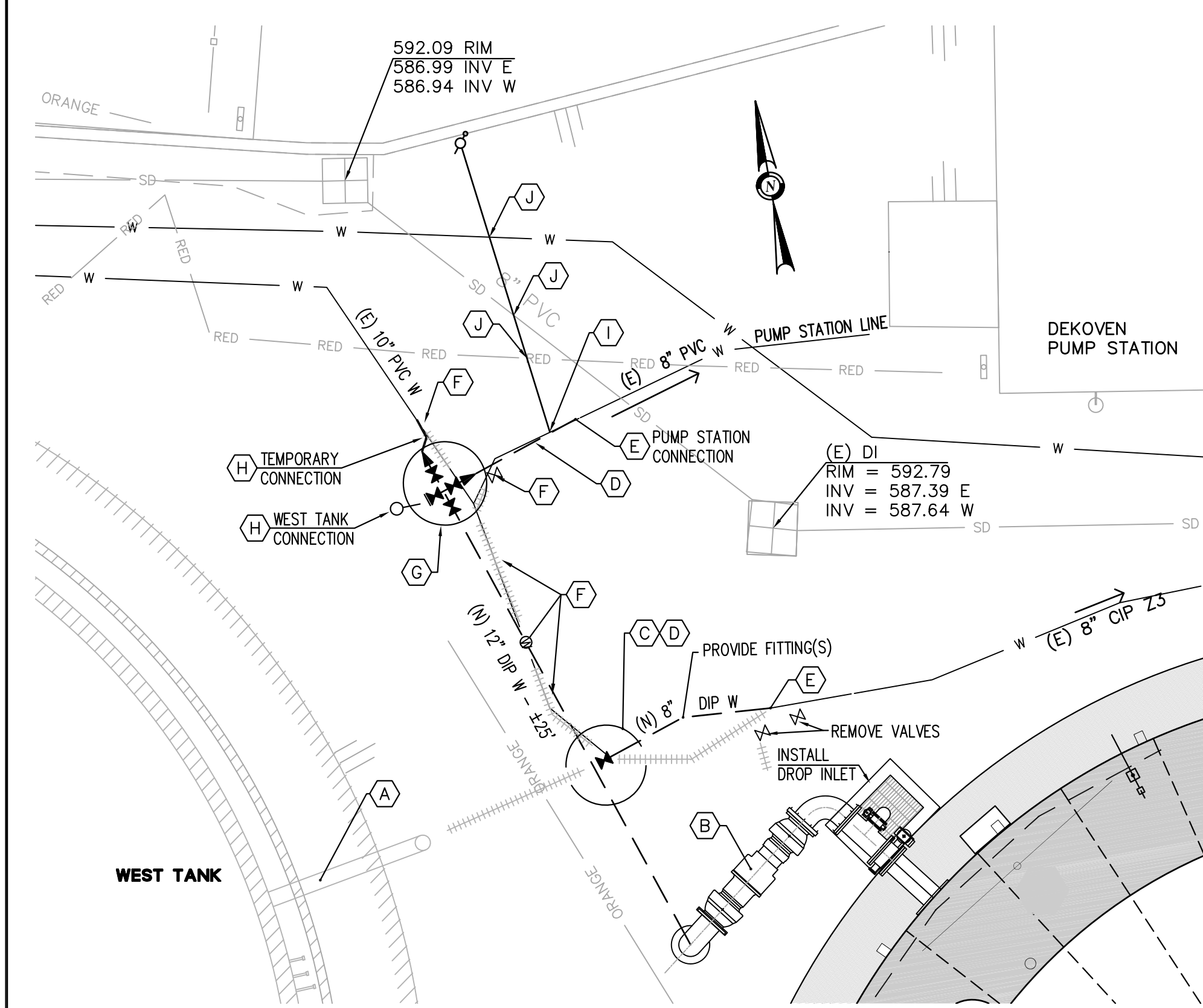
CHECKED: BRANDON LAURIE
DESIGNED: VICTOR FUNG
APPROVED: VICTOR FUNG
JOB NO. 10012.13

MID-PENINSULA WATER DISTRICT
DEKOVEN TANKS REPLACEMENT
COORDINATION AND PHASING PLAN

DATE: 05/28/21 SCALE: AS NOTED

PCG JOB NO. 10012.13

PLAN **C4.1**
SHEET **14 OF 33**



PHASE 4 - EAST TANK CONNECTION
SCALE: 1" = 5'

- ### CONSTRUCTION LEGEND NOTES (PHASE 4 REQUIRES A TEMPORARY SHUT DOWN)
- (A) **WEST TANK ISOLATION**
CLOSE (E) VALVES OF THE WEST TANK.
 - (B) **I/O CONNECTION**
REMOVE THE BLIND FLANGE AND COMPLETE THE I/O SEISMIC ASSEMBLY.
 - (C) **TEE CONNECTOR REMOVAL (Z3 CONNECTION)**
REMOVE THE (E) TEE, GV, THRUST BLOCK AND INSTALL (N) 12X8 TEE, 8" GV, THRUST BLOCK.
 - (D) **8" PVC/CIP WATER MAIN REPLACEMENT**
REMOVE AND REPLACE THE (E) WATER MAIN WITH 8" DIP AS SHOWN. PROVIDE THE NECESSARY VERTICAL/HORIZONTAL FITTINGS (11.25', 22.5', OR 45'). REMOVE APPROXIMATELY 10' TO 20' SECTION OF WATER LINE FOR A SMOOTH TRANSITION OR AS REQUIRED IN THE FIELD.
 - (E) **8" PVC/CIP TIE-IN CONNECTION**
USE THE APPROVED SLEEVE OR COUPLING TO COMPLETE THE TIE-IN CONNECTION.

REMOVE THE NECESSARY APPURTENANCES (TEE, FITTINGS, AND PIPE) TO COMPLETE THE INSTALLATION.
 - (F) **POSSIBLE WATER MAIN CONFLICT**
USE THE INFORMATION FROM PHASE 2 TO DETERMINE IF THE PORTION OF THE (E) WATER MAIN, TEE, OR GV WILL REQUIRE REMOVAL TO COMPLETE THE WATER MAIN INSTALLATION.
 - (G) **12X12 CROSS CONNECTIONS**
INSTALL 12X12 CROSS AND GV'S AS SHOWN ON THE PLANS.

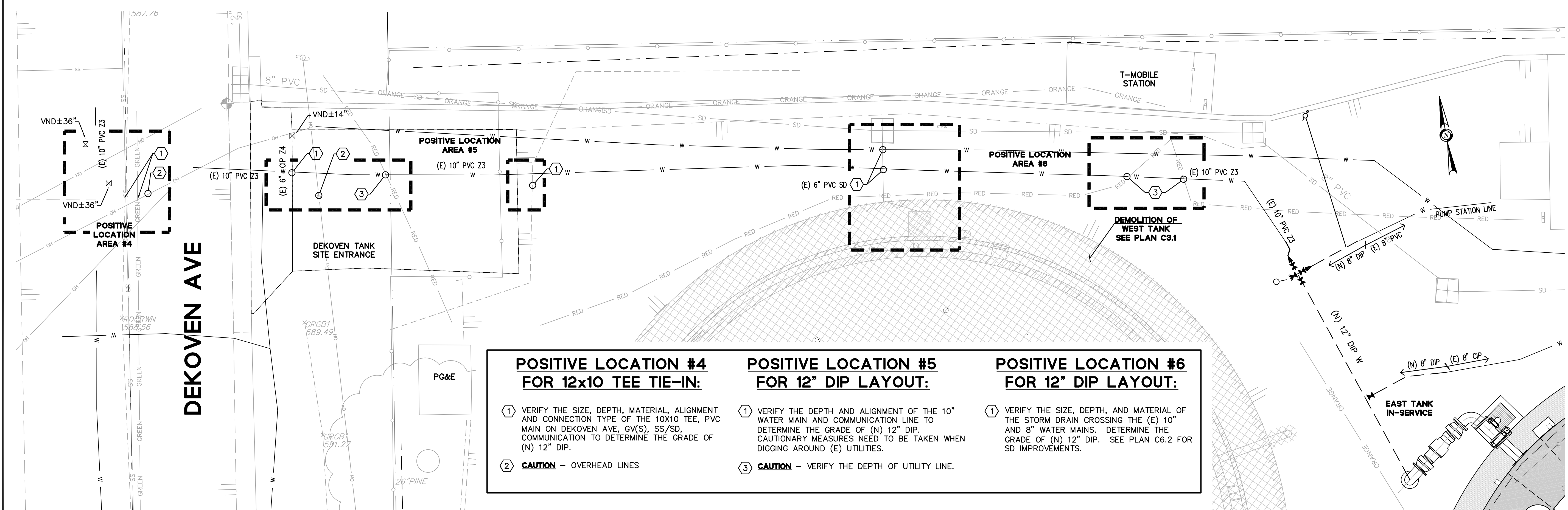
PUMP STATION: USE A 12X8 REDUCER.
 - (H) **TEMPORARILY INSTALL A 12X12 REDUCER AND 10" FITTINGS (11.25', 22.5', OR 45'), AND SECTION OF 10" DIP WITH APPROVED SLEEVE OR COUPLING TO PUT THE WATER MAIN IN SERVICE.**

WEST TANK CONNECTION: INSTALL A BLIND FLANGE WITH A 4" INLET PIPE FOR FLUSHING.

EAST TANK CONNECTION: CONNECT 12" DIP

ABANDON (E) GV'S IN PLACE
EXCAVATE, REMOVE AND DISPOSE THE GV BOXES, LIDS, AND RISER.
 - (I) **INSTALL 1" COMBINATION AIR VALVE PER DETAIL 3, PLAN C1.8 AT THE HIGHEST POINT OF THE WATER MAIN OR ±5' FROM THE TIE-IN. COORDINATE WITH THE DISTRICT THE LOCATION OF THE COMBINATION AIR VALVE ENCLOSURE.**
 - (J) **CAUTION - (E) UTILITY CROSSINGS FROM PHASE 2.**

- ### TIE-IN AND SHUTDOWN SPECIAL SPECIAL PROVISIONS
- THE (E) 10" AND 8" WATER LINES SHALL BE EXPOSED PRIOR TO SHUT DOWN AND READY TO BE CUT AND REMOVED FOR THE (N) 8" AND 12" DIP.
 - SHUTDOWN SHALL BE COORDINATED WITH THE DISTRICT 5 DAYS IN ADVANCE TO ALLOW THE DISTRICT TO COORDINATE WITH RESIDENTS AND OPERATE THE DISTRIBUTION SYSTEM DURING THE SHUTDOWN.
 - SHUTDOWN WILL BE ALLOWED TUESDAY THRU THURSDAY BETWEEN 9:00 AM TO 5:00 PM.
- ### DISINFECTION AND FLUSHING SPECIAL PROVISIONS
- ALL PIPE AND APPURTENANCES SHALL BE SWABBED AND DISINFECTED TO THE SATISFACTION OF THE DISTRICT PRIOR TO CONNECTIONS.
 - ALL BMP'S SHALL BE IN PLACE PRIOR TO FLUSHING THE (N) WATER MAIN CONNECTIONS. FLUSHING CAN BE ACCOMPLISHED VIA THE 6" OUTLET OF THE I/O OF THE EAST TANK AND THE TEMPORARY 4" PIPE AT THE WEST TANK CONNECTION. RUN A HOSE TO THE CLOSEST INLET TO FLUSH THE WATER MAIN. THE DISTRICT WILL MONITOR THE FLUSHING OPERATIONS AND WILL DETERMINE WHEN THE EAST TANK CAN BE INTRODUCED TO THE DISTRIBUTION SYSTEM.

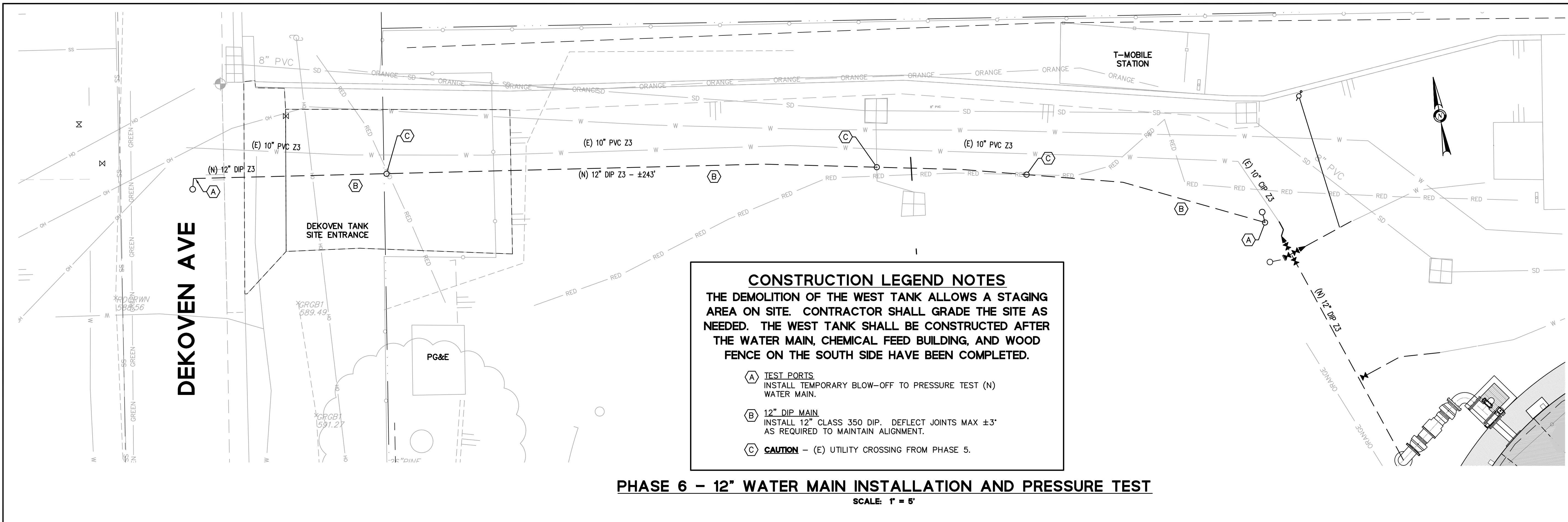


- ### POSITIVE LOCATION #4 FOR 12x10 TEE TIE-IN:
- VERIFY THE SIZE, DEPTH, MATERIAL, ALIGNMENT AND CONNECTION TYPE OF THE 10X10 TEE, PVC MAIN ON DEKOVEN AVE, GV(S), SS/SD, COMMUNICATION TO DETERMINE THE GRADE OF (N) 12" DIP.
 - CAUTION - OVERHEAD LINES**
- ### POSITIVE LOCATION #5 FOR 12" DIP LAYOUT:
- VERIFY THE DEPTH AND ALIGNMENT OF THE 10" WATER MAIN AND COMMUNICATION LINE TO DETERMINE THE GRADE OF (N) 12" DIP. CAUTIONARY MEASURES NEED TO BE TAKEN WHEN DIGGING AROUND (E) UTILITIES.
 - CAUTION - VERIFY THE DEPTH OF UTILITY LINE.**
- ### POSITIVE LOCATION #6 FOR 12" DIP LAYOUT:
- VERIFY THE SIZE, DEPTH, AND MATERIAL OF THE STORM DRAIN CROSSING THE (E) 10" AND 8" WATER MAINS. DETERMINE THE GRADE OF (N) 12" DIP. SEE PLAN C6.2 FOR SD IMPROVEMENTS.

PHASE 5 - WEST TANK DEMOLITION AND POSITIVE LOCATION AREAS
SCALE: 1" = 5'

| | REVISIONS <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 5%;">NO.</th> <th style="width: 15%;">DESCRIPTION</th> <th style="width: 10%;">BY</th> <th style="width: 10%;">DATE</th> <th style="width: 10%;">APPROVED</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table> | NO. | DESCRIPTION | BY | DATE | APPROVED | | | | | |
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| | PROFESSIONAL ENGINEER VICTOR FUNG No. C 59155 State of California 06/28/2024 | | | | | | | | | | |
| Pakpour Consulting Group, Inc. 5776 Stoneridge Mall Road, Suite 320 Pleasanton, CA 94588 925.224.7717 Fax 925.224.7726 www.pakpour.com | CHECKED: BRANDON LAURIE DESIGNED: VICTOR FUNG APPROVED: VICTOR FUNG JOURNIN PAKPOUR | | | | | | | | | | |
| MID-PENINSULA WATER DISTRICT DEKOVEN TANKS REPLACEMENT | COORDINATION AND PHASING PLAN | | | | | | | | | | |
| DATE: 05/28/21 SCALE: AS NOTED PCG JOB NO.: 10012.13 | PLAN: C4.2 SHEET: 15 OF 33 | | | | | | | | | | |

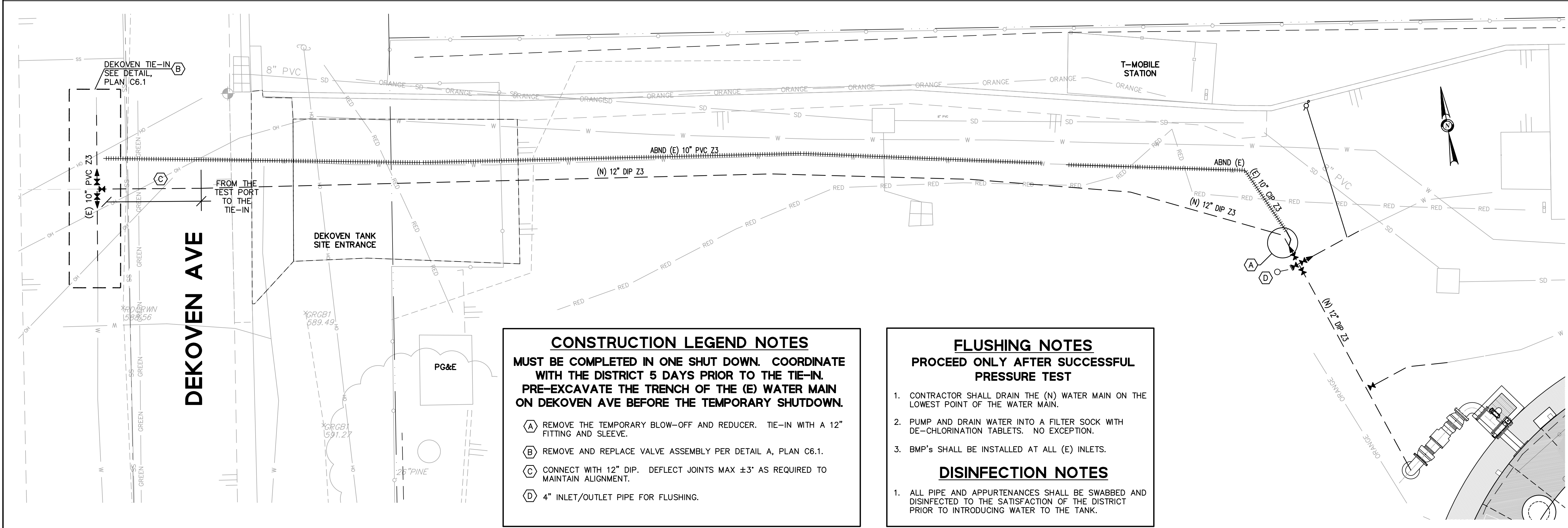
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CONSTRUCTION LEGEND NOTES
 THE DEMOLITION OF THE WEST TANK ALLOWS A STAGING AREA ON SITE. CONTRACTOR SHALL GRADE THE SITE AS NEEDED. THE WEST TANK SHALL BE CONSTRUCTED AFTER THE WATER MAIN, CHEMICAL FEED BUILDING, AND WOOD FENCE ON THE SOUTH SIDE HAVE BEEN COMPLETED.

- (A) TEST PORTS
INSTALL TEMPORARY BLOW-OFF TO PRESSURE TEST (N) WATER MAIN.
- (B) 12" DIP MAIN
INSTALL 12" CLASS 350 DIP. DEFLECT JOINTS MAX ±3" AS REQUIRED TO MAINTAIN ALIGNMENT.
- (C) CAUTION - (E) UTILITY CROSSING FROM PHASE 5.

PHASE 6 - 12" WATER MAIN INSTALLATION AND PRESSURE TEST
 SCALE: 1" = 5'



CONSTRUCTION LEGEND NOTES
MUST BE COMPLETED IN ONE SHUT DOWN. COORDINATE WITH THE DISTRICT 5 DAYS PRIOR TO THE TIE-IN. PRE-EXCAVATE THE TRENCH OF THE (E) WATER MAIN ON DEKOVEN AVE BEFORE THE TEMPORARY SHUTDOWN.

- (A) REMOVE THE TEMPORARY BLOW-OFF AND REDUCER. TIE-IN WITH A 12" FITTING AND SLEEVE.
- (B) REMOVE AND REPLACE VALVE ASSEMBLY PER DETAIL A, PLAN C6.1.
- (C) CONNECT WITH 12" DIP. DEFLECT JOINTS MAX ±3" AS REQUIRED TO MAINTAIN ALIGNMENT.
- (D) 4" INLET/OUTLET PIPE FOR FLUSHING.

FLUSHING NOTES
PROCEED ONLY AFTER SUCCESSFUL PRESSURE TEST

1. CONTRACTOR SHALL DRAIN THE (N) WATER MAIN ON THE LOWEST POINT OF THE WATER MAIN.
2. PUMP AND DRAIN WATER INTO A FILTER SOCK WITH DE-CHLORINATION TABLETS. NO EXCEPTION.
3. BMP'S SHALL BE INSTALLED AT ALL (E) INLETS.

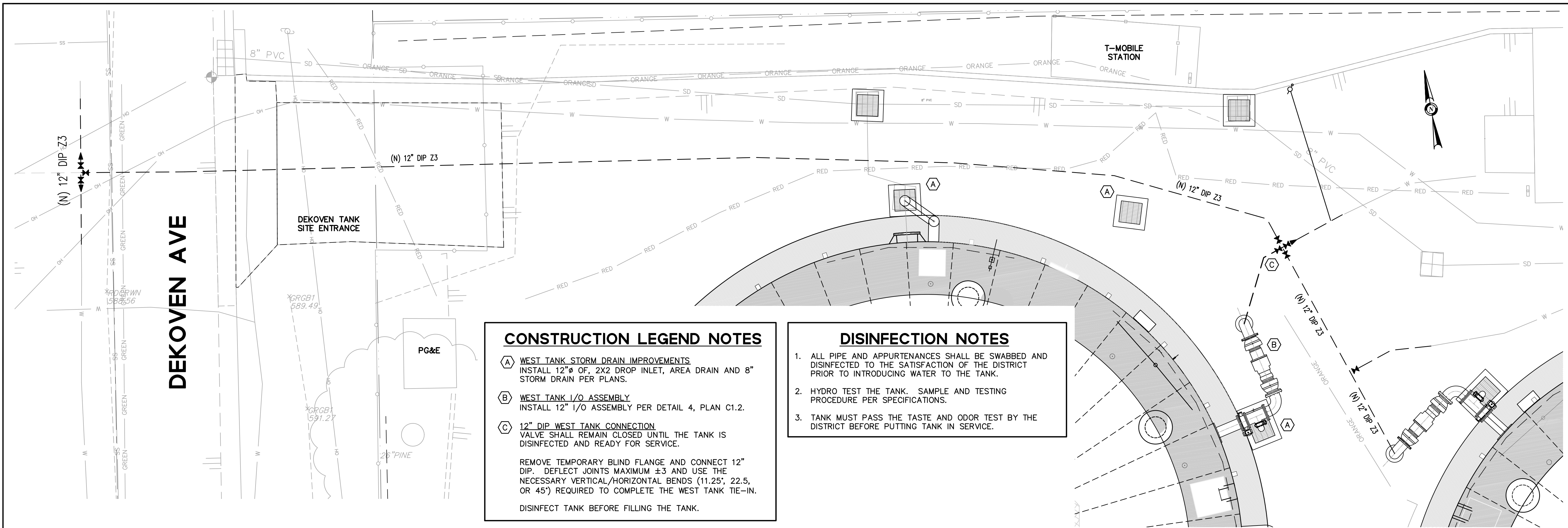
DISINFECTION NOTES

1. ALL PIPE AND APPURTENANCES SHALL BE SWABBED AND DISINFECTED TO THE SATISFACTION OF THE DISTRICT PRIOR TO INTRODUCING WATER TO THE TANK.

PHASE 7 - 12" DIP CONNECTION
 SCALE: 1" = 5'

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| | | CHECKED: BRANDON LAURIE APPROVED: JOURBIN PAKPOUR | | | | |
| DRAWN: VICTOR FUNG DESIGNED: VICTOR FUNG | | MID-PENINSULA WATER DISTRICT DEKOVEN TANKS REPLACEMENT COORDINATION AND PHASING PLAN | | | | |
| DATE: 05/28/21 | | SCALE: AS NOTED | | | | |
| PCG JOB NO. 10012.13 | | PLAN C4.3 | | | | |
| SHEET 16 OF 33 | | | | | | |

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 PLOT DATE: 05/28/21 PLOTTED BY: V.FUNG



CONSTRUCTION LEGEND NOTES

A WEST TANK STORM DRAIN IMPROVEMENTS
INSTALL 12" Ø OF, 2X2 DROP INLET, AREA DRAIN AND 8" STORM DRAIN PER PLANS.

B WEST TANK I/O ASSEMBLY
INSTALL 12" I/O ASSEMBLY PER DETAIL 4, PLAN C1.2.

C 12" DIP WEST TANK CONNECTION
VALVE SHALL REMAIN CLOSED UNTIL THE TANK IS DISINFECTED AND READY FOR SERVICE.

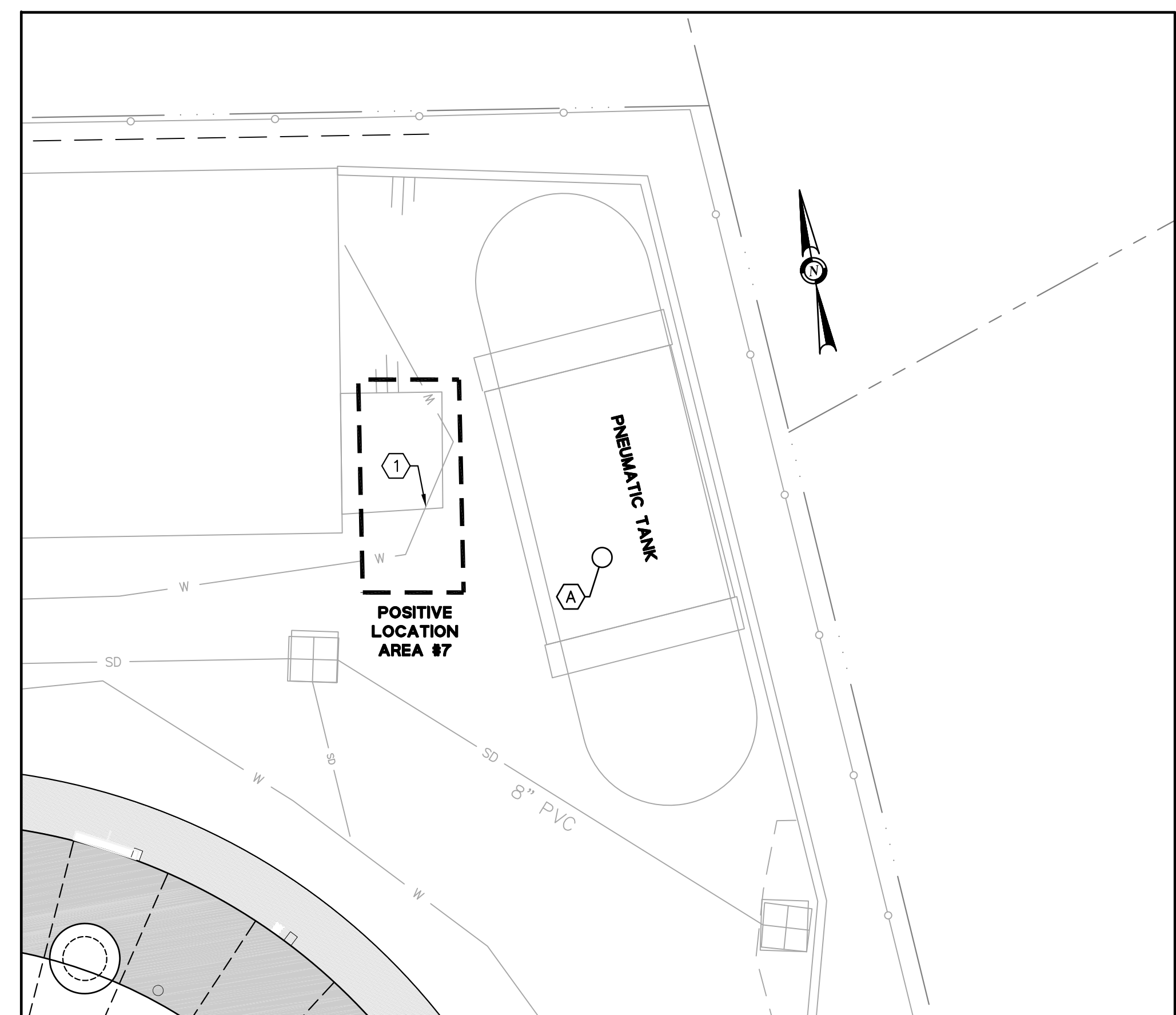
REMOVE TEMPORARY BLIND FLANGE AND CONNECT 12" DIP. DEFLECT JOINTS MAXIMUM ±3 AND USE THE NECESSARY VERTICAL/HORIZONTAL BENDS (11.25°, 22.5°, OR 45°) REQUIRED TO COMPLETE THE WEST TANK TIE-IN.

DISINFECT TANK BEFORE FILLING THE TANK.

DISINFECTION NOTES

1. ALL PIPE AND APPURTENANCES SHALL BE SWABBED AND DISINFECTED TO THE SATISFACTION OF THE DISTRICT PRIOR TO INTRODUCING WATER TO THE TANK.
2. HYDRO TEST THE TANK. SAMPLE AND TESTING PROCEDURE PER SPECIFICATIONS.
3. TANK MUST PASS THE TASTE AND ODOR TEST BY THE DISTRICT BEFORE PUTTING TANK IN SERVICE.

PHASE 8 - WEST TANK AND 12" DIP CONNECTION
SCALE: 1" = 5'



PHASE 9 - PENUMATIC TANK SEISMIC RETROFIT
SCALE: 1" = 5'

POSITIVE LOCATION #7 FOR 8" PNEUMATIC LAYOUT:

① VERIFY THE DEPTH AND ALIGNMENT OF THE 8" PVC WATER MAIN TO DETERMINE THE LAYOUT OF (N) 6" DIP SEISMIC RETROFIT CONNECTION.

REMOVE CONCRETE STEPS IF NEEDED.

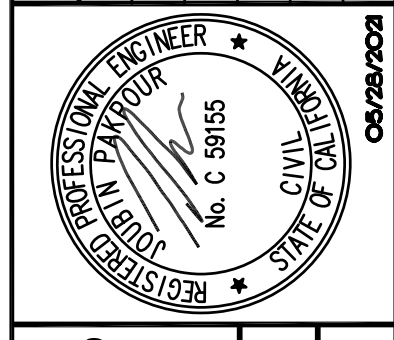
CONSTRUCTION LEGEND NOTES

A PNEUMATIC TANK SEISMIC RETROFIT PER DETAIL 6, PLAN C1.2. COORDINATE SHUT DOWN WITH THE DISTRICT.

DISINFECTION AND FLUSHING SPECIAL PROVISIONS

1. ALL PIPE AND APPURTENANCES SHALL BE SWABBED AND DISINFECTED TO THE SATISFACTION OF THE DISTRICT.
2. PRESSURE TEST THE CONNECTION AND INSPECT FOR LEAKS IN THE CONNECTIONS.
3. COORDINATE THE FLUSHING WITH THE DISTRICT.

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APPROVED: JOUBIN PAKPOUR

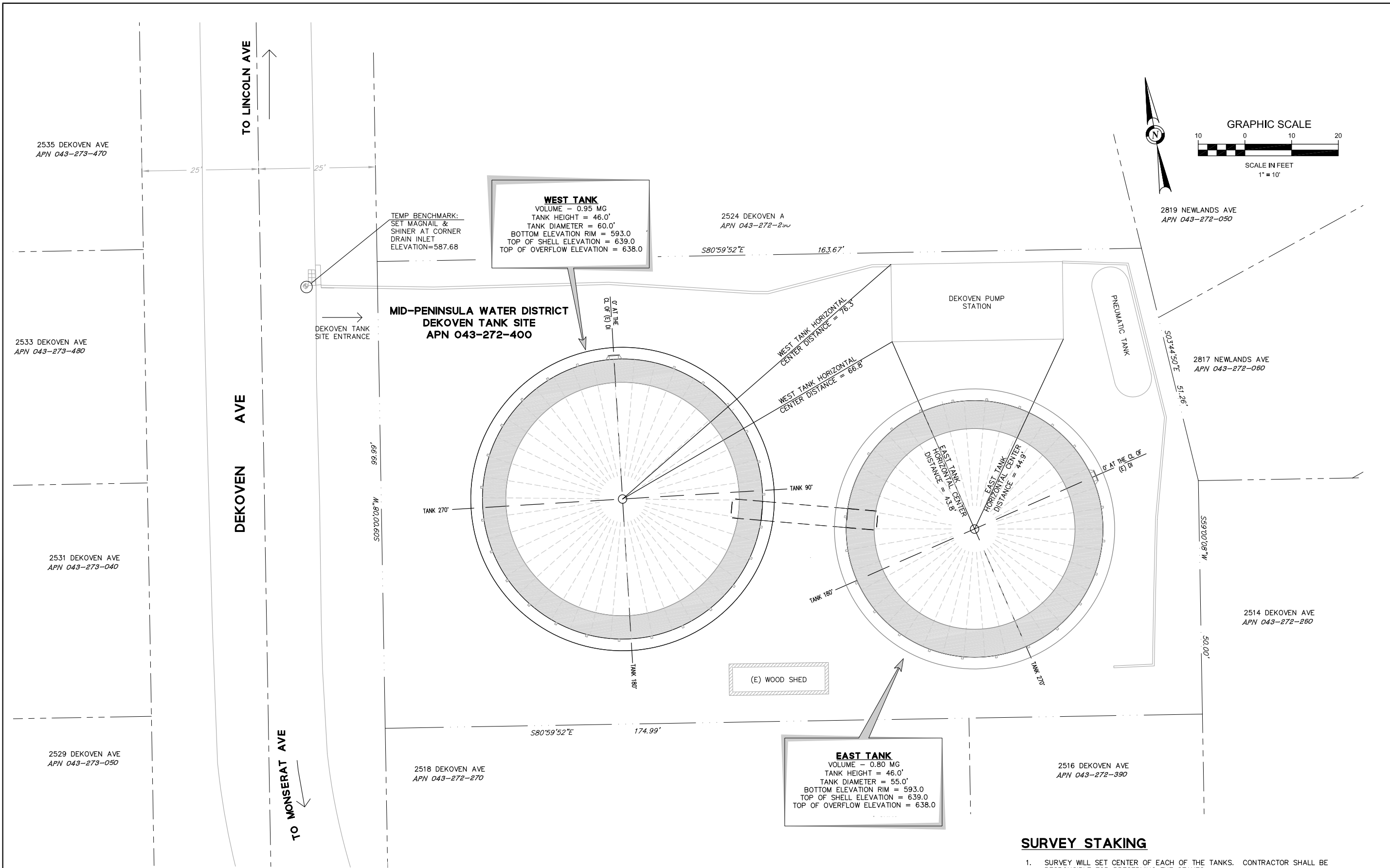
DRAWN: VICTOR FUNG
DESIGNED: VICTOR FUNG

MID-PENINSULA WATER DISTRICT
DEKOVEN TANKS REPLACEMENT
COORDINATION AND PHASING PLAN

DATE: 05/28/21 SCALE: AS NOTED
PCG JOB NO. 10012.13
PLAN **C4.4**
SHEET **17 OF 33**

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 PLOT DATE: 05/28/21 PLOTTED BY: VFM



SURVEY STAKING

1. SURVEY WILL SET CENTER OF EACH OF THE TANKS. CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING THE STAKES.
2. PLEASE ALLOW 7 DAYS TO COORDINATE AND SCHEDULE WITH THE SURVEYOR.
3. ADDITIONAL SURVEY REQUEST SHALL BE IN WRITING.

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DESIGNED: VICTOR FUNG

MID-PENINSULA WATER DISTRICT
DEKOVEN TANKS REPLACEMENT
HORIZONTAL CONTROL SITE PLAN

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| DATE | 05/28/21 | SCALE | AS NOTED |
| PCG JOB NO. | 10012.13 | PLAN | C5.1 |
| SHEET | 18 | OF | 33 |

DEKOVEN AVE

T-MOBILE

GRAPHIC SCALE



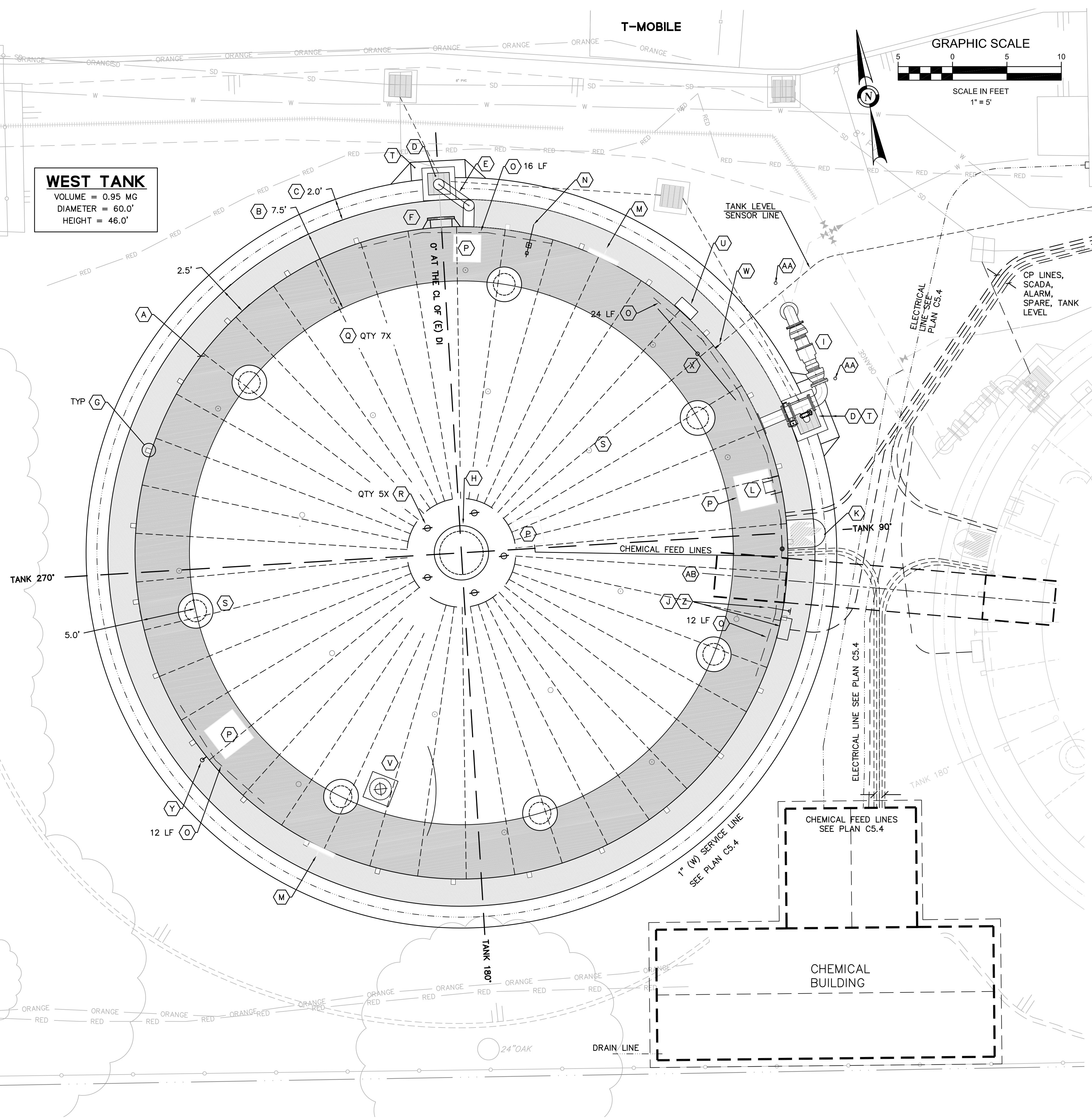
SCALE IN FEET
1" = 5'

WEST TANK
VOLUME = 0.95 MG
DIAMETER = 60.0'
HEIGHT = 46.0'

LEGEND

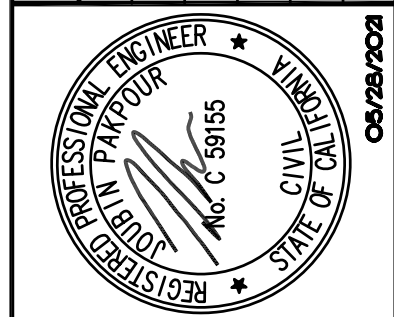
- (A) TANK SHELL
- (B) TANK FOUNDATION - SEE STRUCTURAL PLANS
- (C) CONCRETE SWALE - DETAIL 2/ PLAN C1.2
- (D) 24"x24" DROP INLET COVER (MATCH EXISTING)
- (E) OVERFLOW - SECTION A-A/ PLAN C1.1
- (F) FLUSH CLEAN OUT - DETAIL 2 / PLAN C1.3
- (G) ANCHOR CHAIRS - SEE STRUCTURAL PLANS
- (H) 48" CENTER VENT - DETAIL 2 / PLAN C1.4
- (I) 12" INLET/OUTLET CONNECTION - DETAIL 4 / PLAN C1.2
- (J) FULL TRAVEL TANK LEVEL INDICATOR
- (K) EXTERIOR LADDER ANTI CLIMB COVER - DETAIL 5 / PLAN C1.2
- (L) INTERIOR LADDER
- (M) 42" SHELL MANHOLE (180° APART) - DETAIL 1 / PLAN C1.4
- (N) TOOL PULLEY - DETAIL 3 / PLAN C1.3
- (O) HANDRAILS - DETAIL 1 / PLAN C1.3
- (P) ROOF HATCHES - DETAIL 3 / PLAN C1.4
- (Q) 24" PERIPHERAL ROOF VENTS - DETAIL 2 / PLAN C1.4
- (R) SAFETY EYE BOLTS
- (S) CATHODIC PROTECTION HOLE COVERS - CONTRACTOR SUBMIT DESIGN
- (T) CONCRETE APRON SEE DETAIL 4 / PLAN C1.7
- (U) SAMPLE STATION - DETAIL 1 / PLAN C1.5
- (V) SUMP - DETAIL 4 / PLAN C1.3
- (W) 1" WELDOLET REDUCED FOR PRESSURE TRANSDUCER CONNECTION - DETAIL 2/PLAN C1.5
- (X) 4" ANTENNA POLE 10' HIGH WITH SUPPORTS - PROVIDE SHOP DRAWINGS FOR REVIEW.
- (Y) WELDOLET FOR 0.75" HOSE BIB CONNECTION - DETAIL 2/ PLAN C1.5
- (Z) DIGITAL TANK LEVEL - INSTALL NEXT TO THE FULL TANK LEVEL INDICATOR WITH ENCLOSURE.
- (AA) 5" REMOVAL BOLLARD - DETAIL 1/PLAN C1.7 - LOCATION SHALL BE DETERMINED BY THE DISTRICT.
- (AB) BRIDGE CROSSING - SEE STRUCTURAL PLANS

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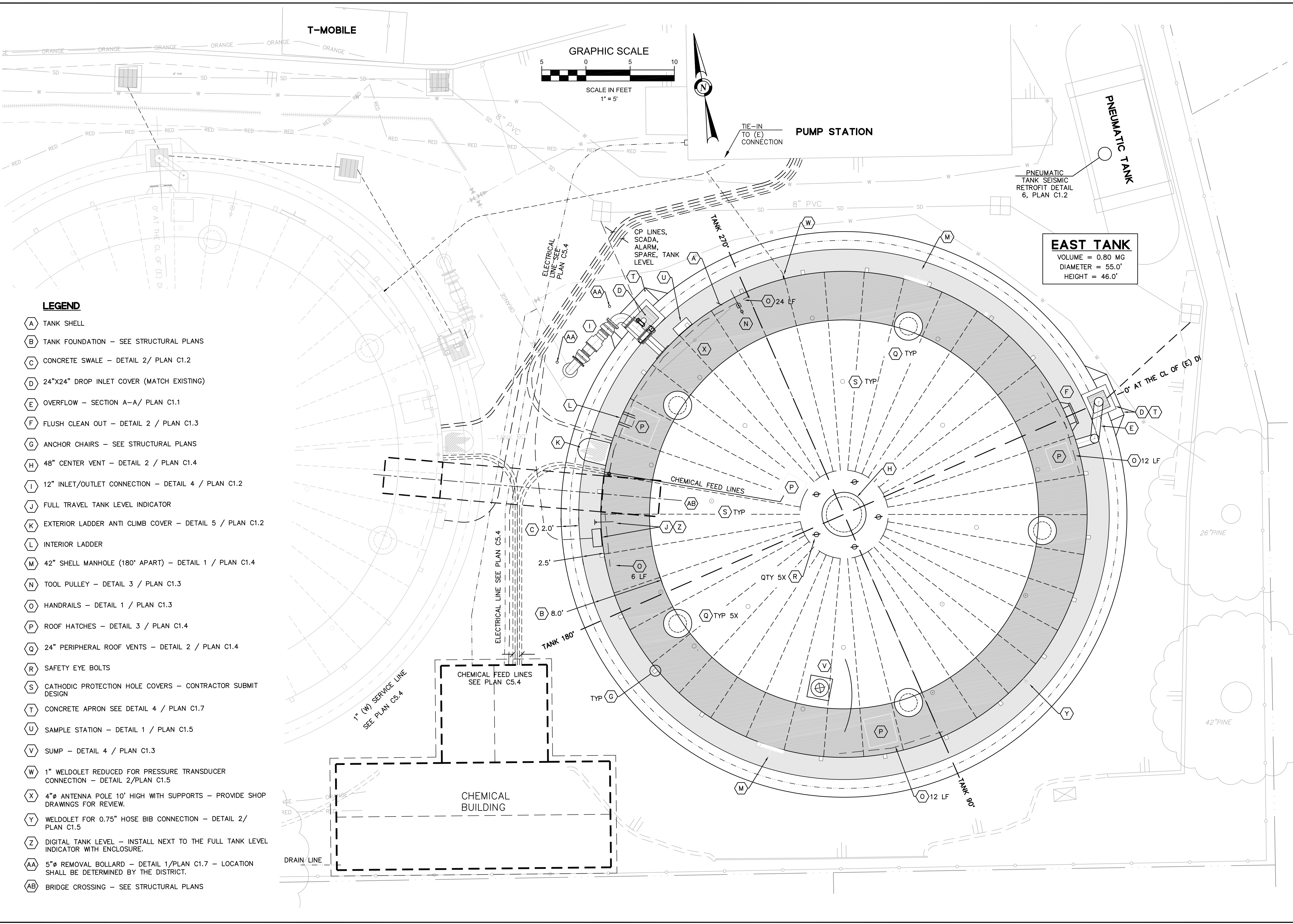
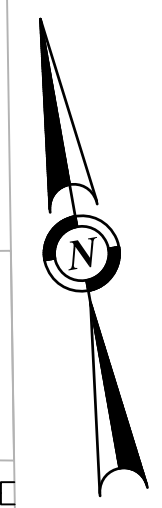
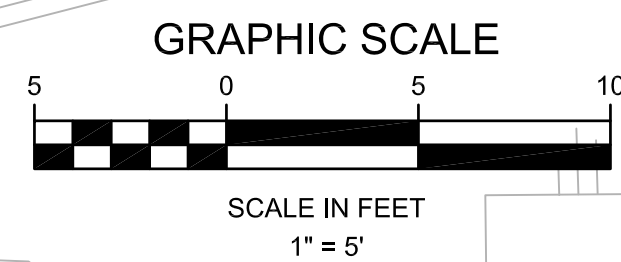
CHECKED: BRANDON LAURIE
APPROVED: JOURBIN PAKPOUR

DRAWN: VICTOR FUNG
DESIGNED: VICTOR FUNG

MID-PENINSULA WATER DISTRICT
DEKOVEN TANKS REPLACEMENT
WEST TANK PLAN VIEW

DATE: 05/28/21 SCALE: AS NOTED
PCG JOB NO.: 10012.13
PLAN: **C5.2**
SHEET: **19 OF 33**

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PLOT DATE: 06/28/21 PLOTTED BY: V.FUNG



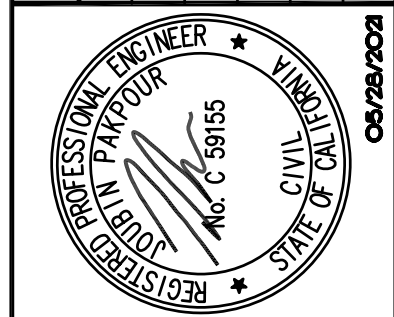
EAST TANK
 VOLUME = 0.80 MG
 DIAMETER = 55.0'
 HEIGHT = 46.0'

LEGEND

- A TANK SHELL
- B TANK FOUNDATION - SEE STRUCTURAL PLANS
- C CONCRETE SWALE - DETAIL 2/ PLAN C1.2
- D 24"x24" DROP INLET COVER (MATCH EXISTING)
- E OVERFLOW - SECTION A-A/ PLAN C1.1
- F FLUSH CLEAN OUT - DETAIL 2 / PLAN C1.3
- G ANCHOR CHAIRS - SEE STRUCTURAL PLANS
- H 48" CENTER VENT - DETAIL 2 / PLAN C1.4
- I 12" INLET/OUTLET CONNECTION - DETAIL 4 / PLAN C1.2
- J FULL TRAVEL TANK LEVEL INDICATOR
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- O HANDRAILS - DETAIL 1 / PLAN C1.3
- P ROOF HATCHES - DETAIL 3 / PLAN C1.4
- Q 24" PERIPHERAL ROOF VENTS - DETAIL 2 / PLAN C1.4
- R SAFETY EYE BOLTS
- S CATHODIC PROTECTION HOLE COVERS - CONTRACTOR SUBMIT DESIGN
- T CONCRETE APRON SEE DETAIL 4 / PLAN C1.7
- U SAMPLE STATION - DETAIL 1 / PLAN C1.5
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- Z DIGITAL TANK LEVEL - INSTALL NEXT TO THE FULL TANK LEVEL INDICATOR WITH ENCLOSURE.
- AA 5"Ø REMOVAL BOLLARD - DETAIL 1/PLAN C1.7 - LOCATION SHALL BE DETERMINED BY THE DISTRICT.
- AB BRIDGE CROSSING - SEE STRUCTURAL PLANS

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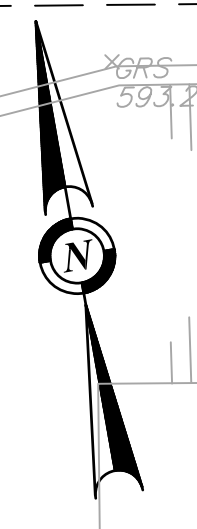
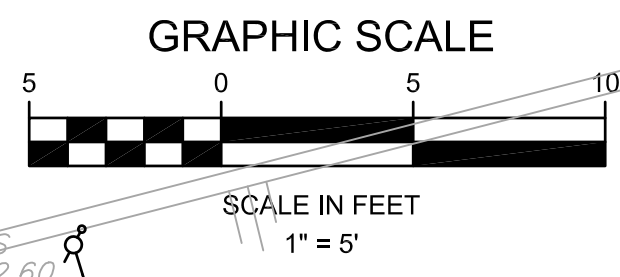
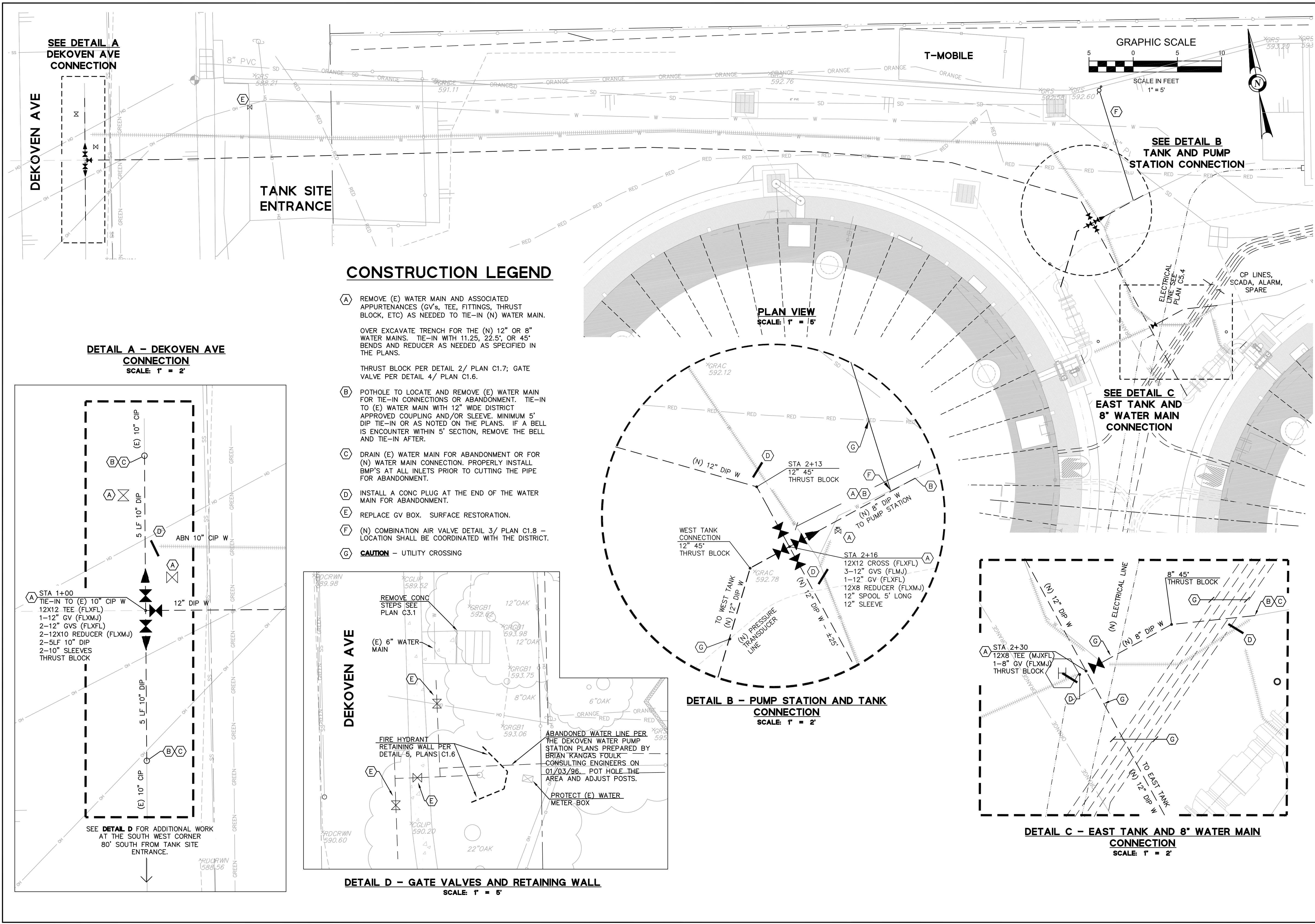
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 APPROVED: JOUBIN PAKPOUR
 DRAWN: VICTOR FUNG
 DESIGNED: VICTOR FUNG

**MID-PENINSULA WATER DISTRICT
 DEKOVEN TANKS REPLACEMENT
 EAST TANK PLAN VIEW**

DATE: 05/28/21 SCALE: AS NOTED
 PCG JOB NO.: 10012.13
 PLAN: **C5.3**
 SHEET: **20 OF 33**

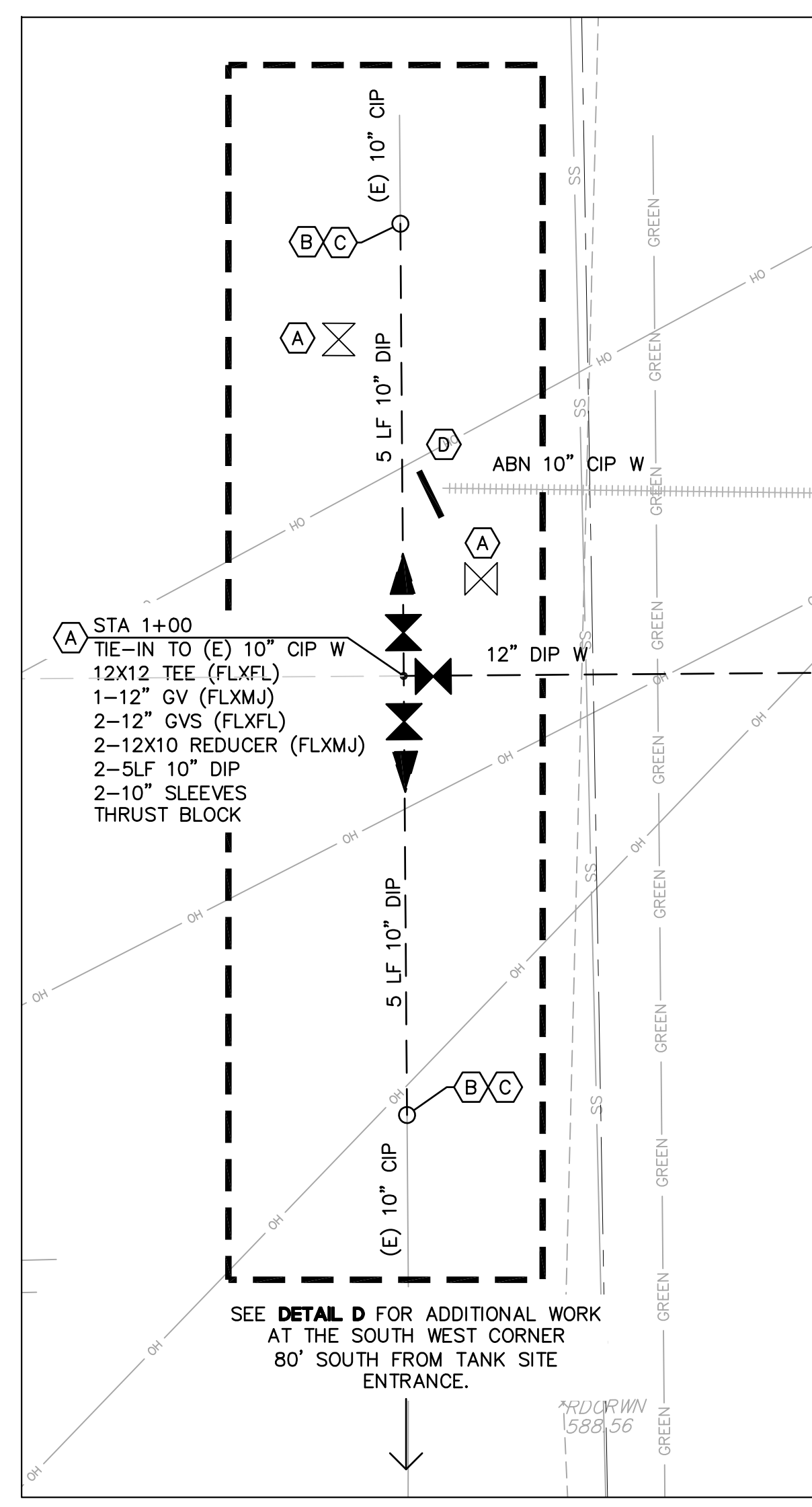
DRAWING NAME: J:\CADD\10012.13\plan sheets\C5.3-EAST TANK PLAN VIEW.dwg
 PLOT DATE: 05/28/21 PLOTTED BY: V.FUNG



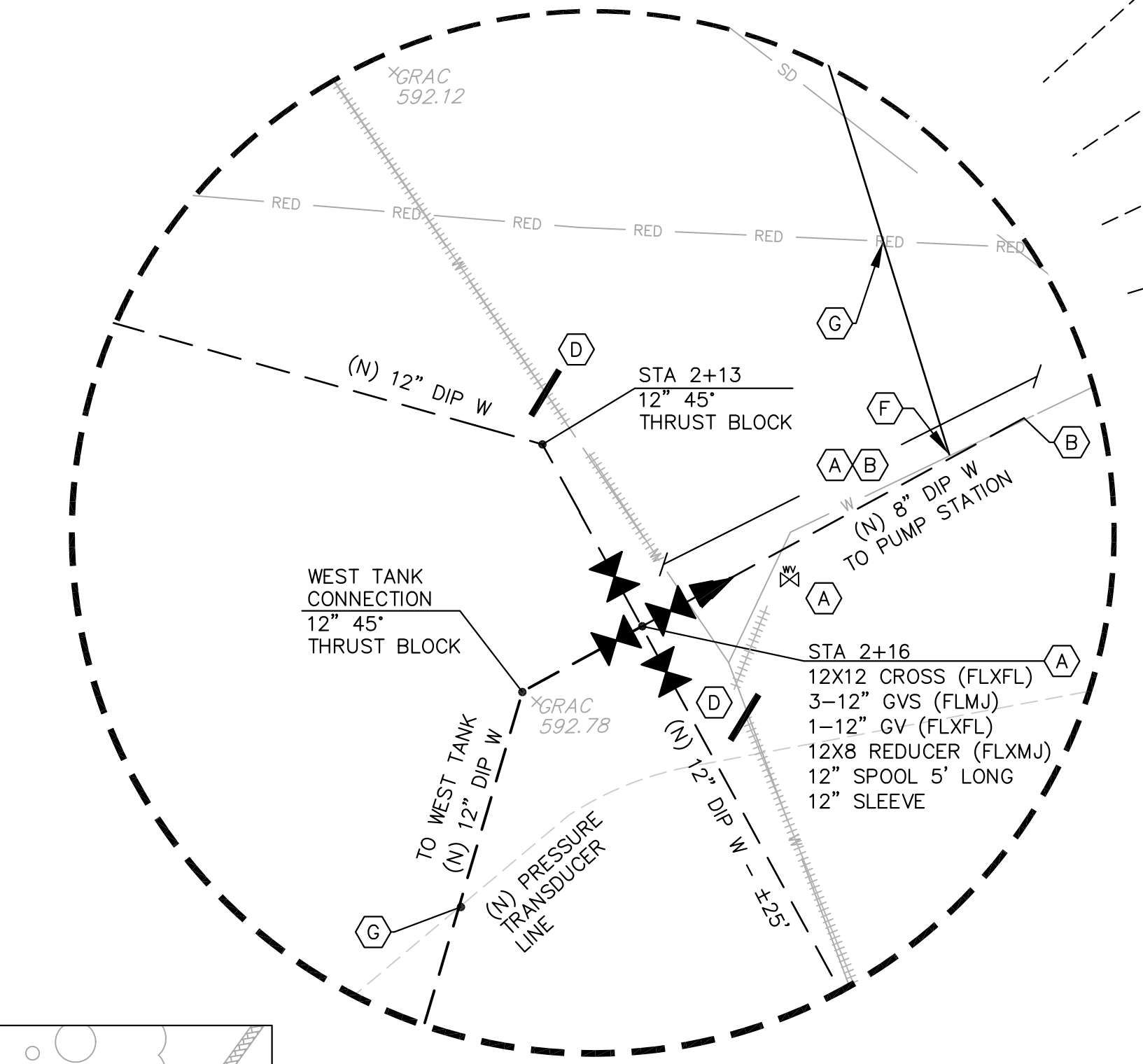
CONSTRUCTION LEGEND

- (A) REMOVE (E) WATER MAIN AND ASSOCIATED APPURTENANCES (GV's, TEE, FITTINGS, THRUST BLOCK, ETC) AS NEEDED TO TIE-IN (N) WATER MAIN.
OVER EXCAVATE TRENCH FOR THE (N) 12" OR 8" WATER MAINS. TIE-IN WITH 11.25, 22.5, OR 45° BENDS AND REDUCER AS NEEDED AS SPECIFIED IN THE PLANS.
THRUST BLOCK PER DETAIL 2/ PLAN C1.7; GATE VALVE PER DETAIL 4/ PLAN C1.6.
- (B) POTHOLE TO LOCATE AND REMOVE (E) WATER MAIN FOR TIE-IN CONNECTIONS OR ABANDONMENT. TIE-IN TO (E) WATER MAIN WITH 12" WIDE DISTRICT APPROVED COUPLING AND/OR SLEEVE. MINIMUM 5' DIP TIE-IN OR AS NOTED ON THE PLANS. IF A BELL IS ENCOUNTERED WITHIN 5' SECTION, REMOVE THE BELL AND TIE-IN AFTER.
- (C) DRAIN (E) WATER MAIN FOR ABANDONMENT OR FOR (N) WATER MAIN CONNECTION. PROPERLY INSTALL BMP'S AT ALL INLETS PRIOR TO CUTTING THE PIPE FOR ABANDONMENT.
- (D) INSTALL A CONC PLUG AT THE END OF THE WATER MAIN FOR ABANDONMENT.
- (E) REPLACE GV BOX. SURFACE RESTORATION.
- (F) (N) COMBINATION AIR VALVE DETAIL 3/ PLAN C1.8 - LOCATION SHALL BE COORDINATED WITH THE DISTRICT.
- (G) **CAUTION** - UTILITY CROSSING

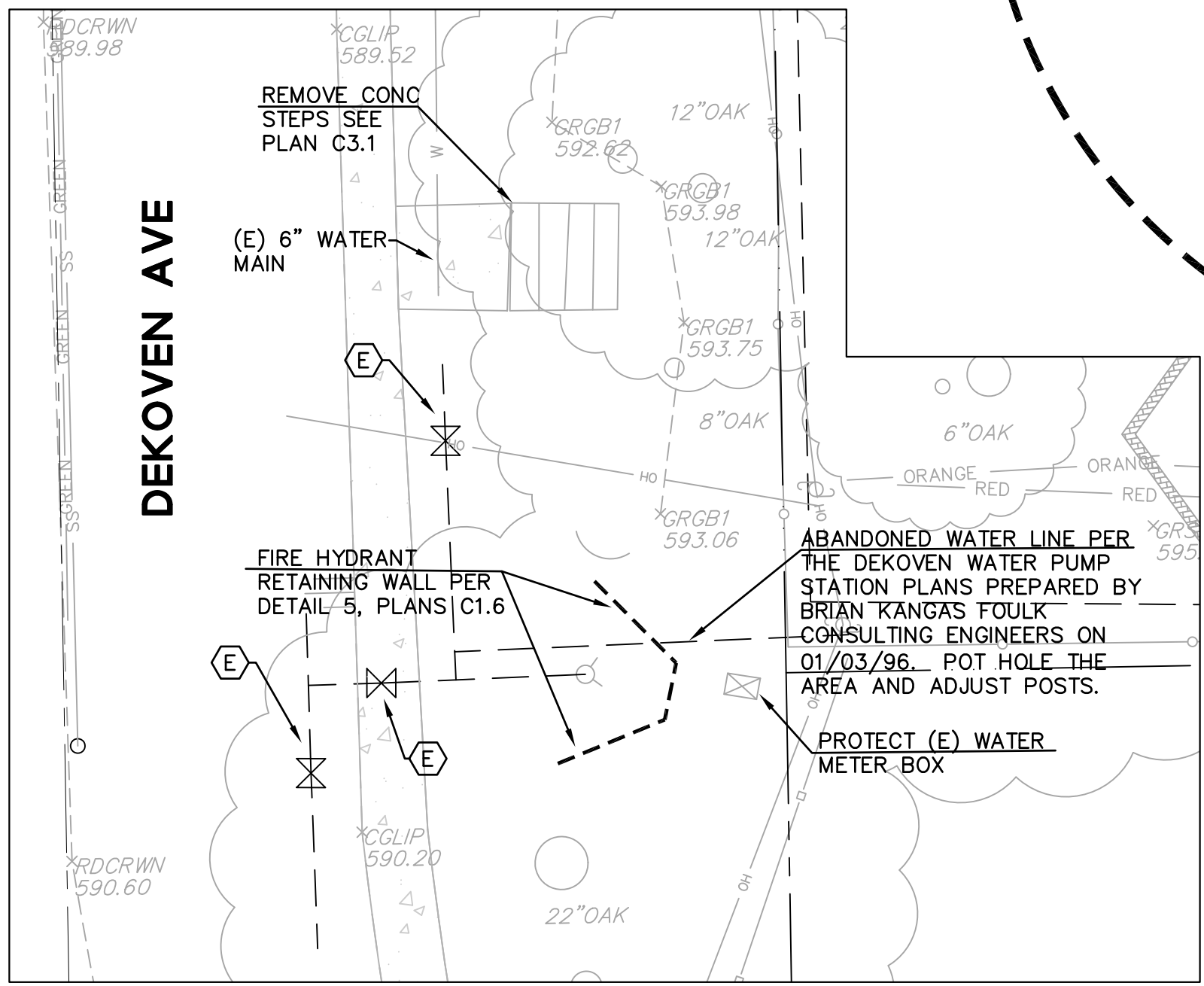
DETAIL A - DEKOVEN AVE CONNECTION
SCALE: 1" = 2'



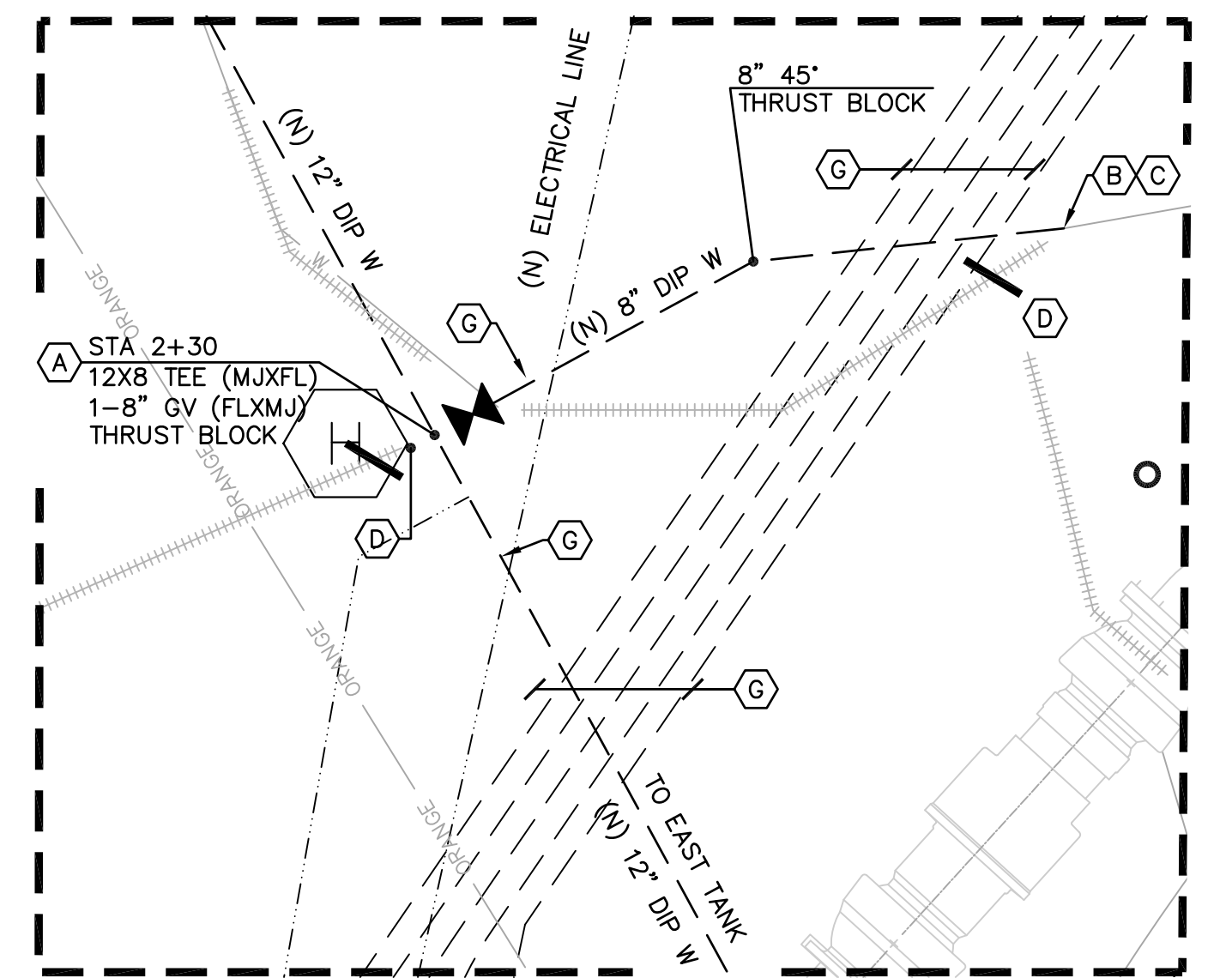
PLAN VIEW
SCALE: 1" = 5'



DETAIL B - PUMP STATION AND TANK CONNECTION
SCALE: 1" = 2'

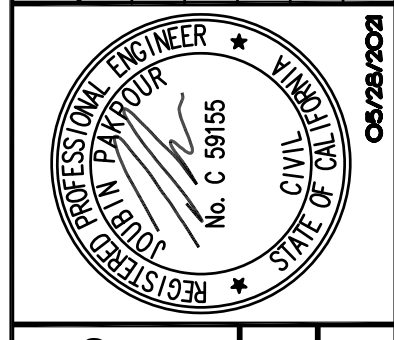


DETAIL D - GATE VALVES AND RETAINING WALL
SCALE: 1" = 5'



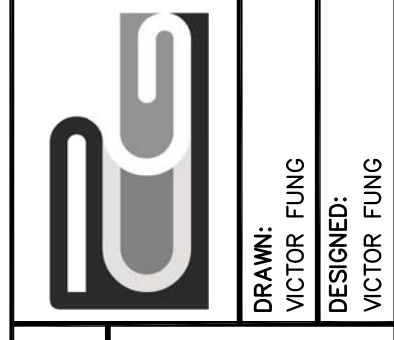
DETAIL C - EAST TANK AND 8\"/>

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CHECKED: BRANDON LAURIE
DESIGNED: VICTOR FUNG
APPROVED: VICTOR FUNG
JOB: JOURN PAKPOUR



MID-PENINSULA WATER DISTRICT
DEKOVEN TANKS REPLACEMENT
WATER MAIN IMPROVEMENTS

DATE: 05/28/21 SCALE: AS NOTED
PCG JOB NO.: 10012.13
PLAN: **C6.1**
SHEET: **22 OF 33**

DRAWING NAME: J:\CADD\0012.13\Journ\mwd\22-2019\PLAN02.dwg
PLOT DATE: 05/28/21 PLOTTED BY: VFW

CONSTRUCTION NOTES

- ① 6" CONC VERTICAL CURB - DETAIL 7 / PLAN C1.7
- ② CONC DWY AND APPROACH ENTRANCE - 14' WIDE, 6" THICK - PROVIDE SHOP DRAWING FOR REVIEW.
- ③ TYPE A CONC CURB AND GUTTER (CITY OF BELMONT STANDARD DETAIL S1-100) - SEE APPENDIX IN THE PROJECT SPECIFICATIONS
- ④ 6" AC BERM - DETAIL 3 / PLAN C1.2
- ⑤ TYPE E CONC CURB/GUTTER (CITY OF BELMONT STANDARD DETAIL S1-100) - SEE APPENDIX IN THE PROJECT SPECIFICATIONS

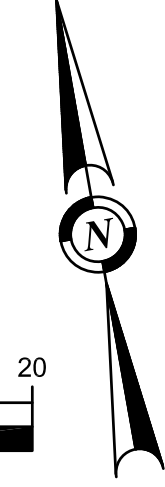
CONSTRUCTION ABBREVIATIONS

| | | | |
|-----|------------------------|-----|-----------------|
| BC | BACK or BOTTOM OF CURB | PT | POINT |
| EG | EXISTING GRADE | RET | RETAINING |
| FL | FLOW LINE | STA | STATION |
| FP | FINISH PAD FLOOR | TB | TOP OF BERM |
| FG | FINISH GRADE | TC | TOP OF CURB |
| GB | GRADE BREAK | TFB | TOP FACE BERM |
| HP | HIGH POINT | TG | TOP OF GRATE |
| INV | INVERT | TF | TANK FOUNDATION |
| LG | LIP OF GUTTER | TYP | TYPICAL |
| LP | LOW POINT | | |

GRAPHIC SCALE

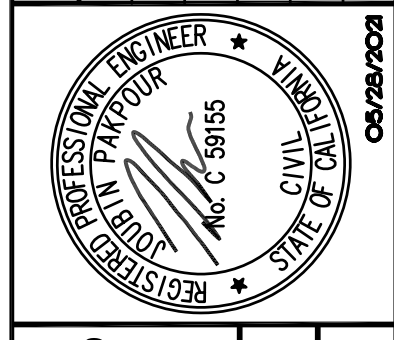


SCALE IN FEET
1" = 10'



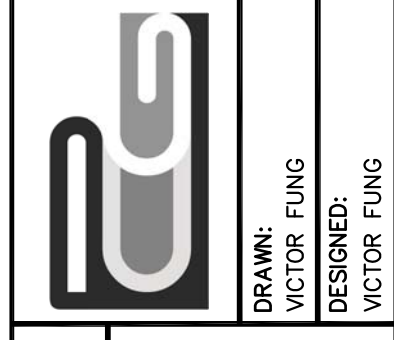
REVISIONS

| NO. | DESCRIPTION | BY | DATE | APPVD |
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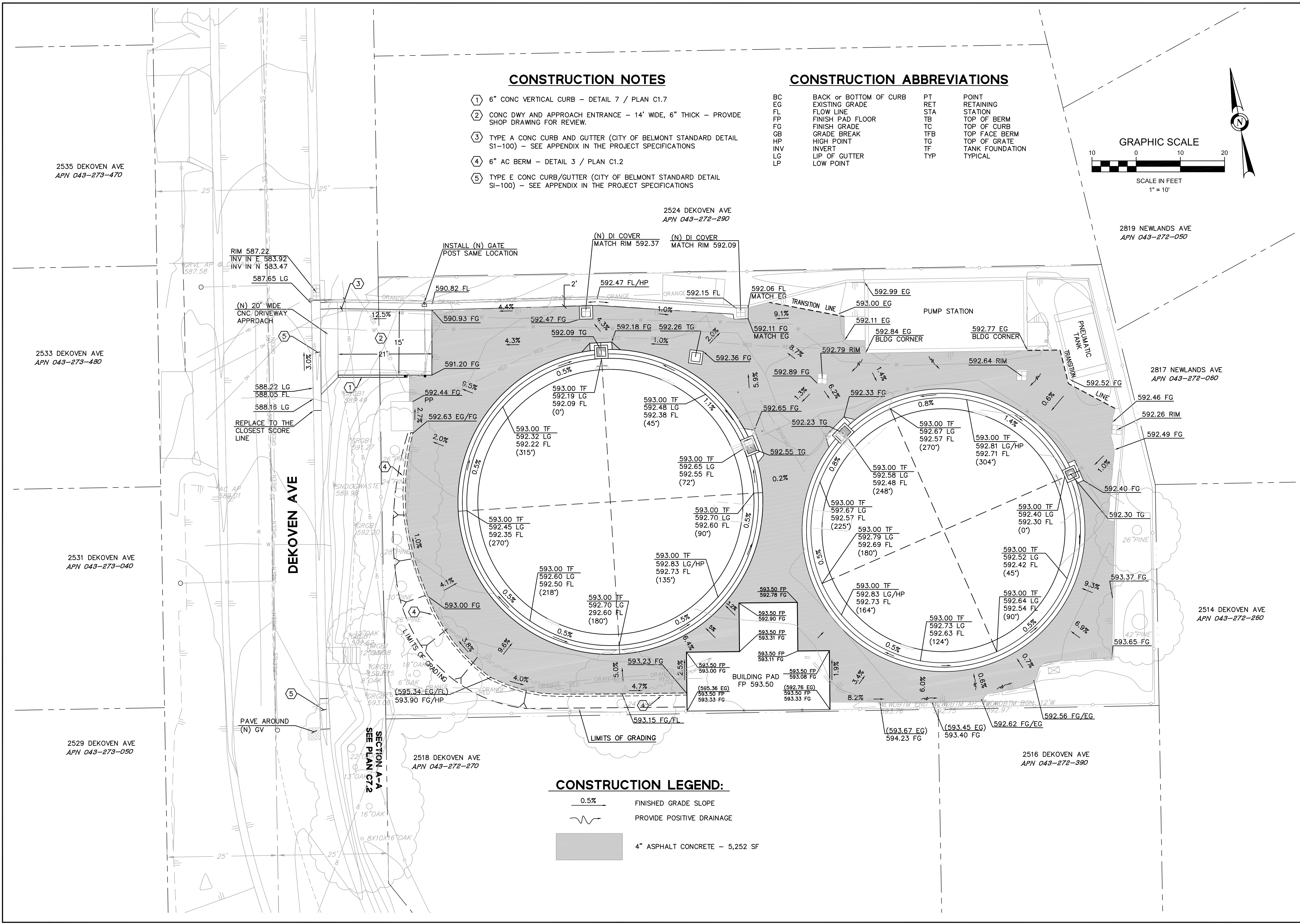


MID-PENINSULA WATER DISTRICT DEKOVEN TANKS REPLACEMENT GRADING AND SITE PLAN IMPROVEMENTS

| | | | |
|-------------|----------|-------|----------|
| DATE | 05/28/21 | SCALE | AS NOTED |
| PCG JOB NO. | 10012.13 | | |
| PLAN | C7.1 | | |
| SHEET | 25 OF 33 | | |

CONSTRUCTION LEGEND:

- 0.5% FINISHED GRADE SLOPE
- PROVIDE POSITIVE DRAINAGE
- 4" ASPHALT CONCRETE - 5,252 SF



DRAWING NAME: J:\CADD\10012.13\plan sheet\05-SUP\GRAD01.dwg
PLOT DATE: 06/02/21 PLOTTED BY: V.FUNG

GENERAL STRUCTURAL NOTES

A. GENERAL

- UNLESS DETAILED, SPECIFIED OR INDICATED OTHERWISE, CONSTRUCTION SHALL BE AS INDICATED IN THE APPLICABLE TYPICAL DETAILS AND GENERAL NOTES. TYPICAL DETAILS ARE MEANT TO APPLY EVEN THOUGH NOT REFERENCED AT SPECIFIC LOCATIONS OR IN SPECIFIC DRAWINGS.
- STRUCTURAL DIMENSIONS CONTROLLED BY OR RELATED TO MECHANICAL OR ELECTRICAL EQUIPMENT SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
- MECHANICAL AND ELECTRICAL EQUIPMENT SUPPORTS, ANCHORAGES, OPENINGS, RECESSES AND REVEALS NOT SHOWN ON THE STRUCTURAL DRAWINGS BUT REQUIRED BY OTHER CONTRACT DRAWINGS SHALL BE PROVIDED PRIOR TO PLACING CONCRETE.
- STRUCTURAL DRAWINGS SHALL BE USED IN COORDINATION WITH MECHANICAL, ELECTRICAL, CIVIL DRAWINGS AND SHOP DRAWINGS PROVIDED BY MANUFACTURERS OF EQUIPMENT.
- SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION.
- HANDRAIL AND LADDERS SHALL CONFORM TO LATEST OSHA REQUIREMENTS.
- CONTRACTOR SHALL FIELD REVIEW SITE PRIOR TO SUBMITTING BID.
- TANK CONTRACTOR SHALL PROVIDE AND COORDINATE WITH THE DISTRICT CONNECTIONS TO INLET-OUTLET, OVERFLOW, AND SURGE INLETS, CATHODIC PROTECTION, POWER CONNECTIONS AND LEVEL SIGNAL CARRIER CONNECTIONS.
- DUST CONTROL AT ALL TIMES IS CONTRACTOR'S RESPONSIBILITY. CONTRACTOR SHALL MAINTAIN CLEANLINESS IN THE CONSTRUCTION AREA.
- CONTRACTOR SHALL VERIFY LOCATION OF ALL ABOVE AND BELOW GROUND UTILITIES AT SITE PRIOR TO CONSTRUCTION.

B. STRUCTURAL DESIGN

- DESIGN IN ACCORDANCE WITH THE 2019 EDITION OF THE CALIFORNIA BUILDING CODE AND ITS LATEST SUPPLEMENTS, EXCEPT WHERE OTHER APPLICABLE CODES OR THE FOLLOWING NOTES ARE MORE RESTRICTIVE.
- TANK DESIGN SHALL BE IN ACCORDANCE WITH AWWA D100-11 UNLESS SPECIFIED IN THE CONTRACT DOCUMENTS.
- FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL REPORT PREPARED BY CAL ENGINEERING AND GEOLOGY, DOCUMENT NO. 190060.001 DATED JUNE 24, 2020.

C. CONCRETE

- ALL STRUCTURAL CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI IN 28 DAYS. UNLESS OTHERWISE NOTED, ALL CONCRETE CONSTRUCTION, INCLUDING BENDING OF BARS, SHALL COMPLY WITH A.C.I. CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES" (A.C.I. 350-06).
- ALL DETAILING, FABRICATION AND PLACING OF REINFORCING BARS, UNLESS OTHERWISE NOTED, SHALL BE IN ACCORDANCE WITH THE MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES A.C.I.-315, LATEST EDITION.
- REINFORCEMENT STEEL SHALL BE DEFORMED BARS CONFORMING IN QUALITY TO THE REQUIREMENT OF THE SPECIFICATIONS FOR DEFORMED BILLET-STEEL BARS FOR CONCRETE REINFORCEMENT, ASTM DESIGNATION A-615, GRADE 60.
- CONCRETE COVER AND REINFORCEMENT SHALL BE AS FOLLOWS:
 - SURFACES NOT EXPOSED DIRECTLY TO GROUND, WEATHER, WATER CONDENSATION OR WATER AFTER FORM REMOVAL.....1 1/2"
 - CONCRETE PLACED DIRECTLY AGAINST GROUND.....3"
 - SURFACES EXPOSED TO GROUND, WEATHER OR WATER AFTER FORM REMOVAL.....2"
 - REINFORCEMENT SHALL BE PLACED WITHIN A TOLERANCE OF PLUS OR MINUS 1/4" OF POSITIONS SPECIFIED.

- BAR SUPPORTS AND SPACERS SHALL BE PROVIDED IN ACCORDANCE WITH CRSI MANUAL OF STANDARD PRACTICE.
- REINFORCEMENT LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE FOLLOWING MINIMUM REQUIREMENTS:

| | | | | | |
|--------------------------------------|-------|-------|-------|--------|-------|
| CONCRETE DESIGN STRENGTH = 4,000 PSI | | | | | |
| GRADE 60 REINFORCING STEEL | | | | | |
| BAR SIZE: | #4 | #5 | #6 | #7 | #8 |
| LAP SPLICE LENGTH: | 2'-8" | 3'-4" | 4'-0" | 5'-10" | 6'-8" |

D. STRUCTURAL STEEL

- STEEL CONSTRUCTION SHALL CONFORM TO THE SPECIFICATIONS AND STANDARDS AS CONTAINED IN THE LATEST EDITION OF THE AISC STEEL CONSTRUCTION MANUAL, INCLUDING THE COMMENTARY AND SUPPLEMENTS THERETO AS ISSUED.
- ALL STRUCTURAL SHAPES SHALL BE OF STEEL MEETING ASTM A992. ALL STRUCTURAL BARS, PLATES AND SHEETS INDICATED ON THE DRAWING EXCEPT CONCRETE REINFORCING BARS, SHALL BE OF STEEL MEETING ASTM A36 SPECIFICATIONS, UNLESS OTHERWISE NOTED.
- PIPE COLUMNS AND STRUCTURAL TUBING SHALL CONFORM TO ASTM A-500, GRADE "B".
- MINIMUM SIZE OF BOLTS SHALL BE 3/4-INCH DIAMETER, UNLESS OTHERWISE NOTED. ANCHOR BOLTS SHALL BE F1554, GRADE 55, UNLESS OTHERWISE NOTED.

E. TESTING AND SPECIAL INSPECTION

- SPECIAL INSPECTION IS REQUIRED IN ACCORDANCE WITH THE IBC, 2018 EDITION AND CBC, 2019 EDITION, SECTION 1704, FOR THE FOLLOWING WORK:
 - 4000 PSI CONCRETE
 - REINFORCING STEEL
 - BOLTS INSTALLED IN CONCRETE
 - HIGH STRENGTH BOLTING
 - WELDING
 - STEEL FRAME JOINT DETAILS

F. DESIGN CRITERIA

- SEISMIC DESIGN PARAMETERS:

| | |
|----------------------|-------------|
| RISK CATEGORY | IV |
| IMPORTANCE FACTOR, I | 1.50 |
| SITE CLASS | D |
| Ss = 2.163 | Sds = 1.442 |
| S1 = 1.029 | Sd1 = 0.892 |
- WIND DESIGN PARAMETERS:

| | |
|------------------------|---------|
| RISK CATEGORY | III |
| BASIC WIND SPEED, V | 115 MPH |
| WIND EXPOSURE CATEGORY | C |
- ROOF LIVE LOAD:

| | |
|--------------------|--------|
| GROUND SNOW LOAD = | 20 PSF |
|--------------------|--------|

G. LIVE LOAD SIGNS

- ROOF LOAD SIGNS SHALL BE PROVIDED IN AREAS DESIGNATED BY THE ENGINEER. SIGNS SHALL BE AS REQUIRED IN THE SPECIFICATIONS.

STRUCTURAL ABBREVIATIONS

| | | | |
|--------|-------------------------------|-------|---|
| AB | ANCHOR BOLT | ID | INSIDE DIAMETER |
| ADDL | ADDITIONAL | IN | INCH |
| ALUM | ALUMINUM | | |
| ALT | ALTERNATE | JT | JOINT |
| APPROX | APPROXIMATE | | |
| | | L | ANGLE, STR SHAPE |
| BLDG | BUILDING | LB | POUND |
| BLK | BLOCK | LL | LIVE LOAD |
| BM | BEAM | LP | LOW POINT |
| BOT | BOTTOM | | |
| BRG | BEARING | MAX | MAXIMUM |
| | | MECH | MECHANICAL |
| C | CHANNEL STR SHAPE | MFR | MECHANICAL MANUFACTURER |
| CANT'L | CANTILEVER | MH | MANHOLE |
| CJ | CONSTRUCTION JOINT | MID | MIDDLE |
| CL | CENTERLINE | MIN | MINIMUM |
| CLR | CLEAR | | |
| COL | COLUMN | N | NORTH |
| CONC | CONCRETE | NF | NEAR FACE |
| CONN | CONNECTION | NO | NUMBER |
| CONST | CONSTRUCTION | NTS | NOT TO SCALE |
| CONT | CONTINUOUS | | |
| CTR | CENTER | OC | ON CENTER |
| | | OD | OUTSIDE DIAMETER |
| | | OPNG | OPENING |
| DET | DETAIL | OPP | OPPOSITE |
| DIA | DIAMETER | | |
| DIAG | DIAGONAL | | |
| DIM | DIMENSION | PL | PLATE |
| DN | DOWN | PSF | POUNDS PER SQUARE FOOT |
| DO | DITTO | | |
| DP | DEEP | | |
| DWG | DRAWING | R | RADIUS |
| | | REINF | REINFORCEMENT |
| | | REQD | REQUIRED |
| E | EAST | S | SOUTH |
| EA | EACH | | |
| EF | EACH FACE | SECT | SECTION |
| EJ | EXPANSION JOINT | SHT | SHEET |
| EL | ELEVATION | SIM | SIMILAR |
| ELEC | ELECTRICAL | SPEC | SPECIFICATION |
| EQ | EQUAL | SQ | SQUARE |
| EQUIP | EQUIPMENT | SS | STAINLESS STEEL |
| ES | EACH SIDE | STD | STANDARD |
| EW | EACH WAY | STL | STEEL |
| EXST | EXISTING | STR | STRUCTURAL |
| EXP | EXPANSION | SYMM | SYMMETRICAL |
| EXT | EXTERIOR | | |
| | | T&B | TOP AND BOTTOM |
| FD | FLOOR DRAIN | TOC | TOP OF CONCRETE |
| FDN | FOUNDATION | THK | THICK |
| FF | FIN FLOOR, FAR FACE | T/ | TOP OF |
| FIN | FINISH | TYP | TYPICAL |
| FLR | FLOOR | | |
| FRP | FIBERGLASS REINFORCED PLASTIC | UON | UNLESS OTHERWISE NOTED |
| | | | |
| FT | FOOT | | |
| FTG | FOOTING | VERT | VERTICAL |
| | | | |
| GA | GAUGE | | |
| GALV | GALVANIZE | W | WIDE FLANGE STR SHAPE, WIDTH, WEST WITH WORKING POINT |
| GB | GRADE BEAM | | |
| GRTG | GRATING | w/ | |
| | | WP | |
| HORIZ | HORIZONTAL | | |
| HP | HIGH POINT | | |
| HS | HIGH STRENGTH | | |

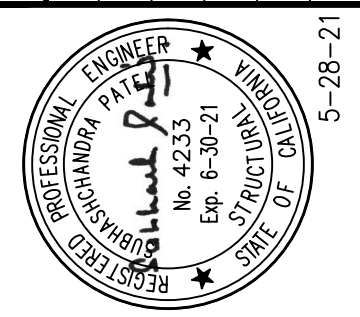
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FOR REDUCED ENGLISH PLANS ORIGINAL SCALE IS IN INCHES

DRAWING NAME: T:\CAD\75260710 Project\751818\18181010\Bakewell Tank Replacer.dwg User: J511.dwg PLOT DATE: 08-27-21 PLOTTED BY: jhewitson

REVISIONS

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Beyaz & Patel Inc.
 10920 Via Frontera, Ste 210
 San Diego, California, 92127
 ph: 858-451-0374

CHECKED: S. PATEL
 APPROVED: S. PATEL

DRAWN: JUNEDEKORN
 DESIGNED: G. HO

MID-PENINSULA WATER DISTRICT

DEKOVEN TANKS REPLACEMENT

STRUCTURAL NOTES AND ABBREVIATIONS

DATE: 3/26/21 SCALE: AS NOTED

PCG JOB NO. 10012.13

PLAN **S11**

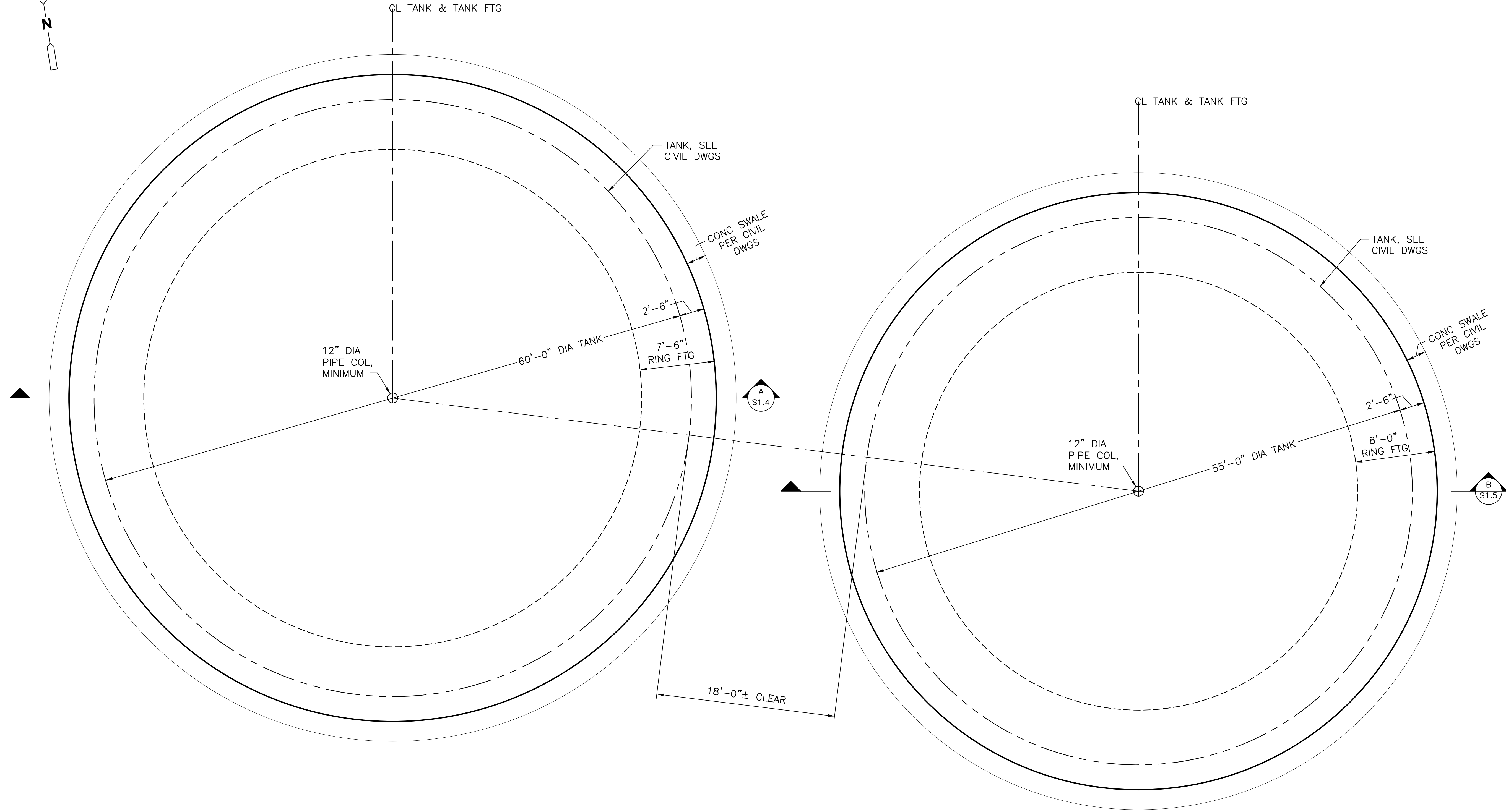
SHEET **26** OF **33**

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FOR REDUCED ENGLISH PLANS
ORIGINAL SCALE IS IN INCHES

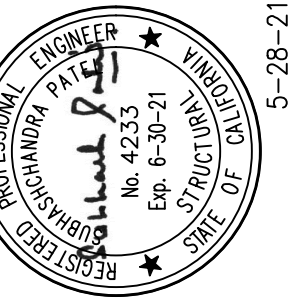
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PLOT DATE: 03-27-21 PLOTTED BY: jhiederkorn



**TANK
FOUNDATION PLANS**
3/16" = 1'-0"

REVISIONS

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MID-PENINSULA WATER DISTRICT

DEKOVEN TANKS REPLACEMENT

**TANK
FOUNDATION PLANS**

DATE: 3/26/21 SCALE: AS NOTED

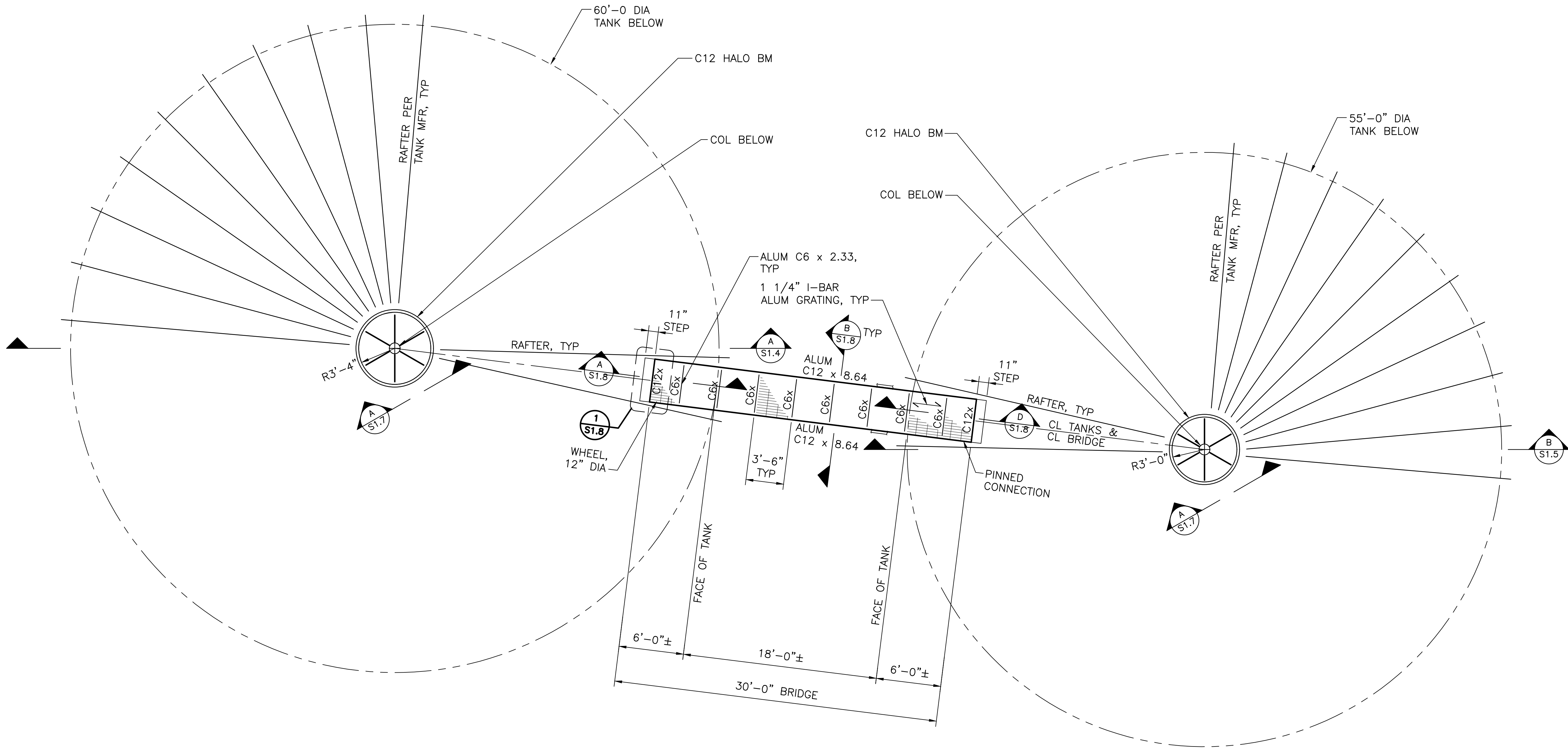
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PLAN **S1.2**
SHEET **27** OF **33**

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FOR REDUCED ENGLISH PLANS
ORIGINAL SCALE IS IN INCHES

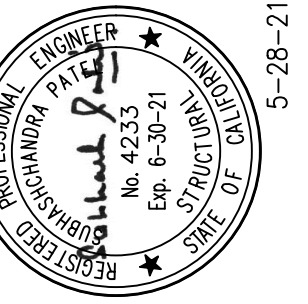
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PLOT DATE: 03-27-21 PLOTTED BY: jhellerem



**TANK
ROOF PLANS**
3/16" = 1'-0"

REVISIONS

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MID-PENINSULA WATER DISTRICT

DEKOVEN TANKS REPLACEMENT

**TANK
ROOF PLANS**

DATE: 3/26/21 SCALE: AS NOTED

PCG JOB NO. 10012.13

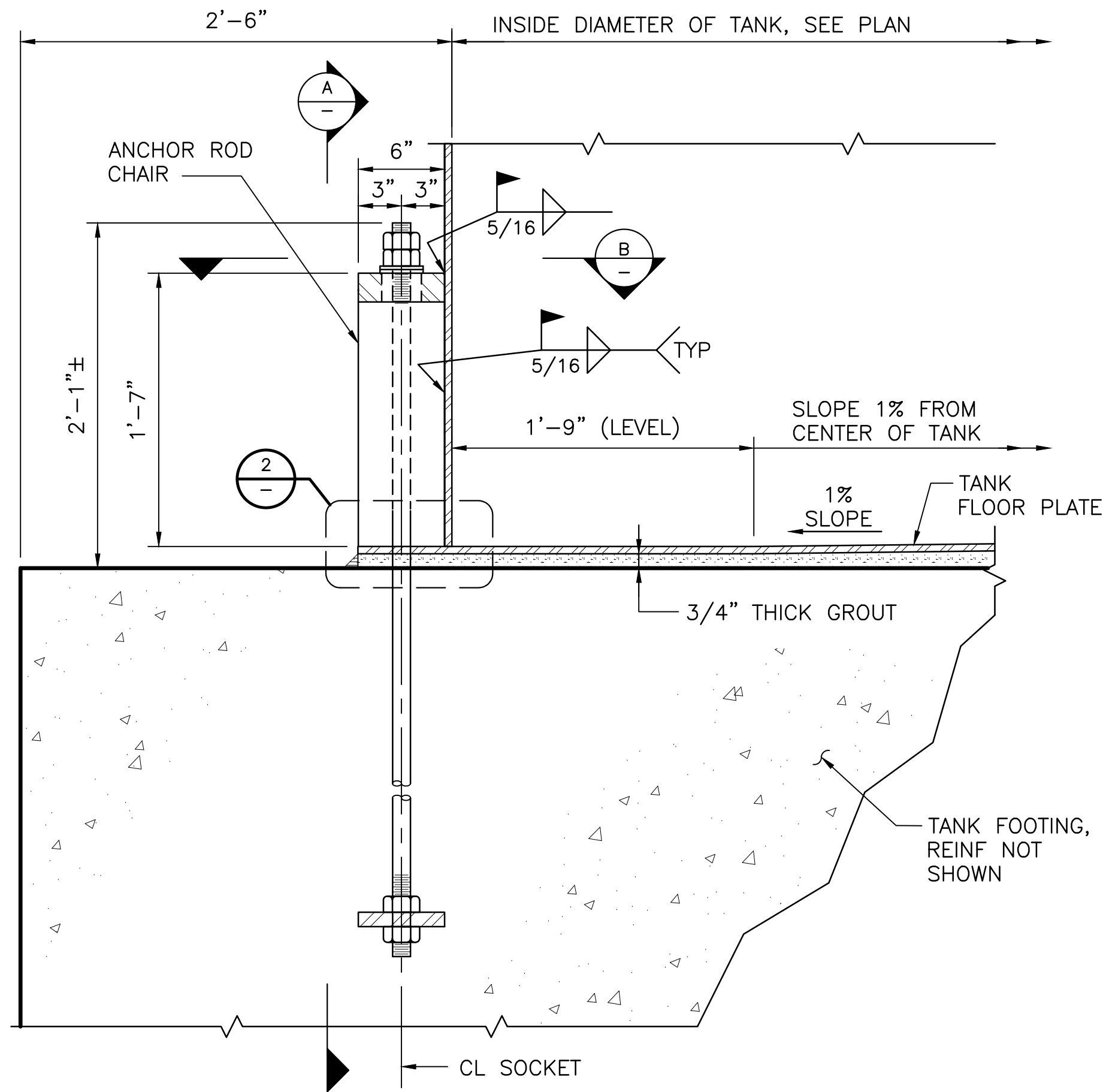
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SHEET **28** OF **33**

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| REVIEWED BY: | DATE: |
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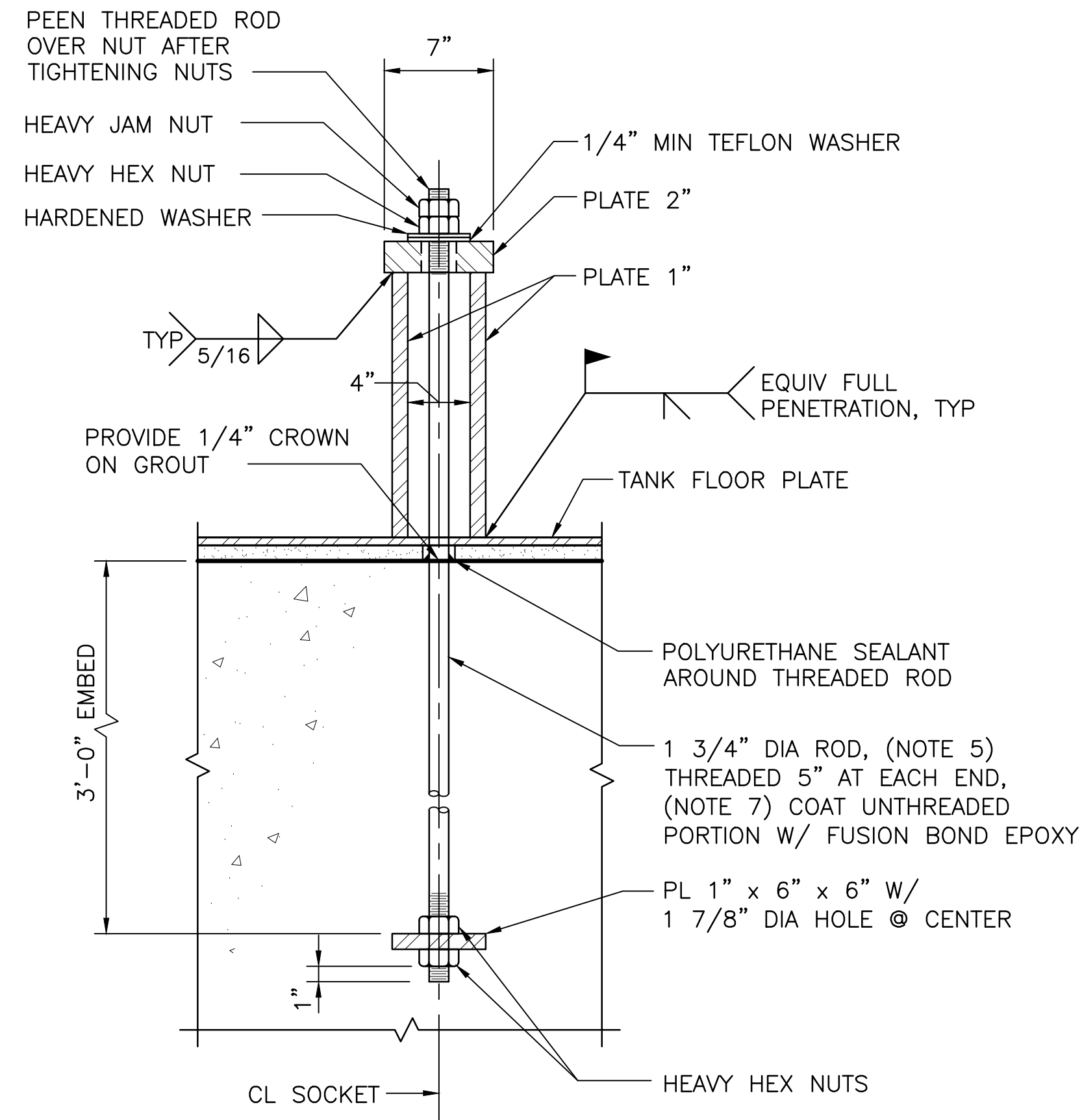
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2
1
0

FOR REDUCED ENGLISH PLANS
ORIGINAL SCALE IS IN INCHES

DRAWING NAME: T:\CAD\75260\75260.dwg Project: 75260\75260.dwg Tank: Replace 48" Dia Tank
PLOT DATE: 08-27-21 PLOTTED BY: jhinterkem



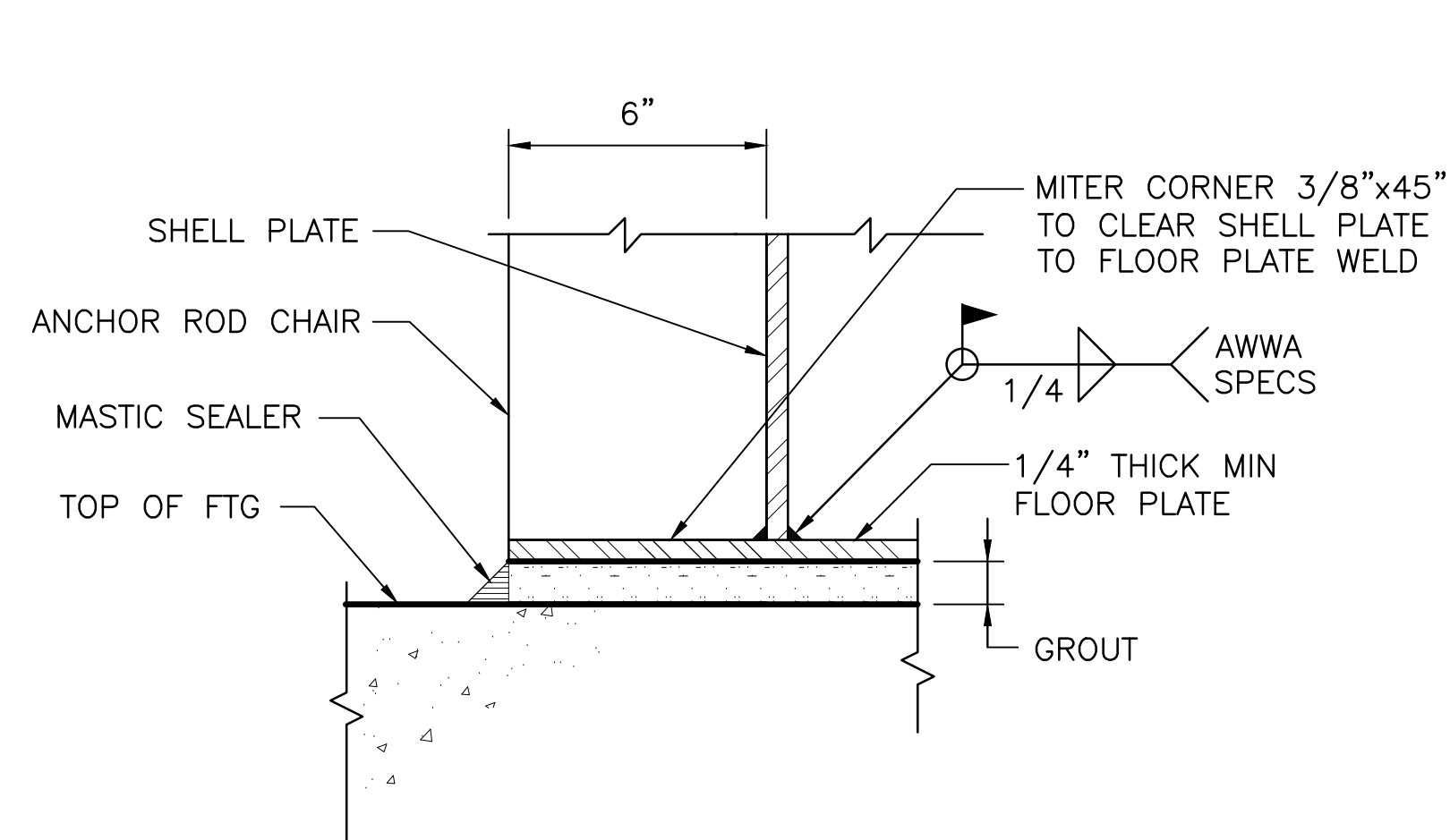
TYPICAL HOLDDOWN
DETAIL 1
1 1/2" = 1'-0"



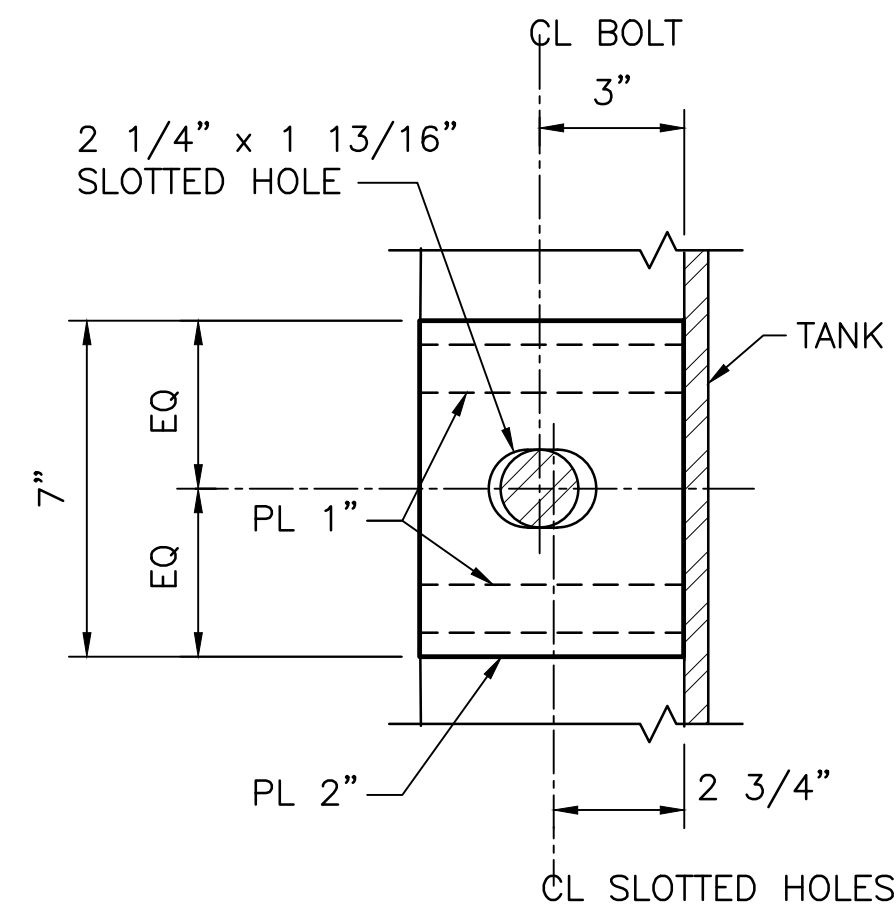
HOLDDOWN
SECTION A
1 1/2" = 1'-0"

HOLDOWN NOTES:

1. TANK FLOOR PLATE, TANK SHELL, CHAIRS, AND WELD SIZE SHOWN ARE MINIMUM. CONTRACTOR SHALL DESIGN PER SPECIFICATIONS SECTION 13200.
2. 1 3/4" DIAMETER THREADED ROD WILL BE FULLY EMBEDDED IN CONCRETE. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER ALIGNMENT OF THE RODS.
3. ALL SUBMERGED SURFACE CONTACTS AND JOINTS SHALL BE SEAL WELDED 1/8" MINIMUM.
4. DETAILS OF ALL JOINTS IN THE FOOTING RING SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
5. KEEP HOLD-DOWN SOCKETS PLUGGED AND WATERTIGHT UNTIL ANCHOR BOLTS AND BRACKETS ARE INSTALLED.
6. RODS SHALL CONFORM TO ASTM F1554 GRADE 55.
7. THE SEQUENCE FOR INSTALLING ANCHOR ROD CHAIRS AND ANCHOR RODS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
8. SEE TANK FOUNDATION PLAN DRAWINGS FOR ANCHORAGE REQUIREMENTS AND LOCATIONS.



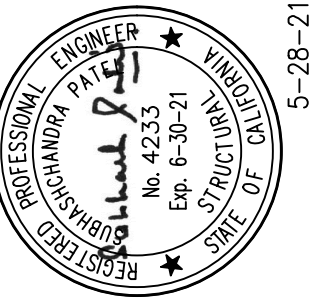
DETAIL 2
3" = 1'-0"



PLAN VIEW
SECTION B
3" = 1'-0"

REVISIONS

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DESIGNED: S. PATEL
DRAWN: J. NIEDERKORN
DESIGNED: G. HO

**MID-PENINSULA WATER DISTRICT
DEKOVEN TANKS REPLACEMENT
TANK
SECTIONS AND DETAILS**

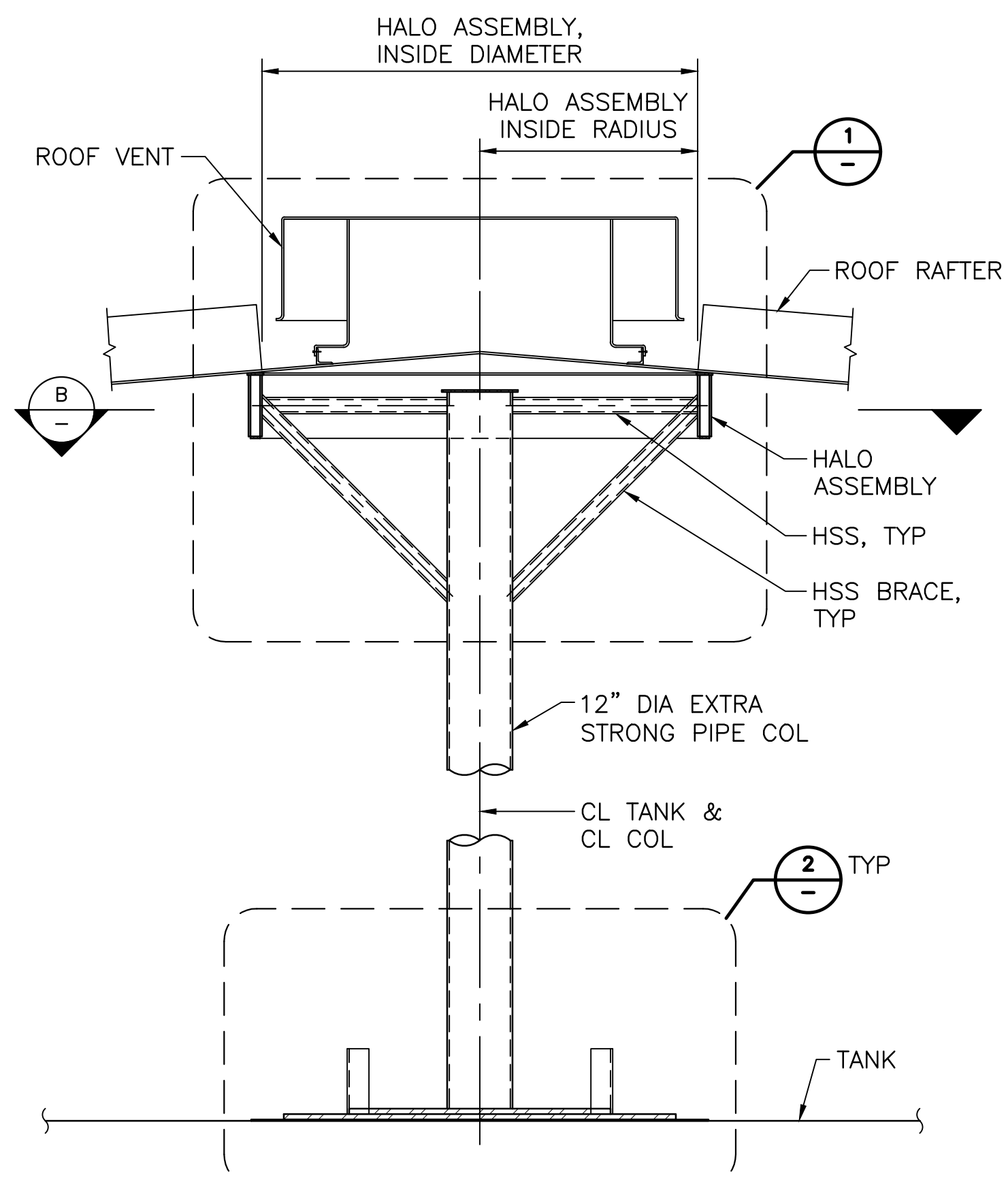
| | |
|-------------|-----------------|
| DATE | SCALE |
| 3/26/21 | AS NOTED |
| PCG JOB NO. | 10012.13 |
| PLAN | S16 |
| SHEET | 31 OF 33 |

| | |
|--------------|-------|
| REVIEWED BY: | DATE: |
| REVIEWED BY: | DATE: |
| REVIEWED BY: | DATE: |

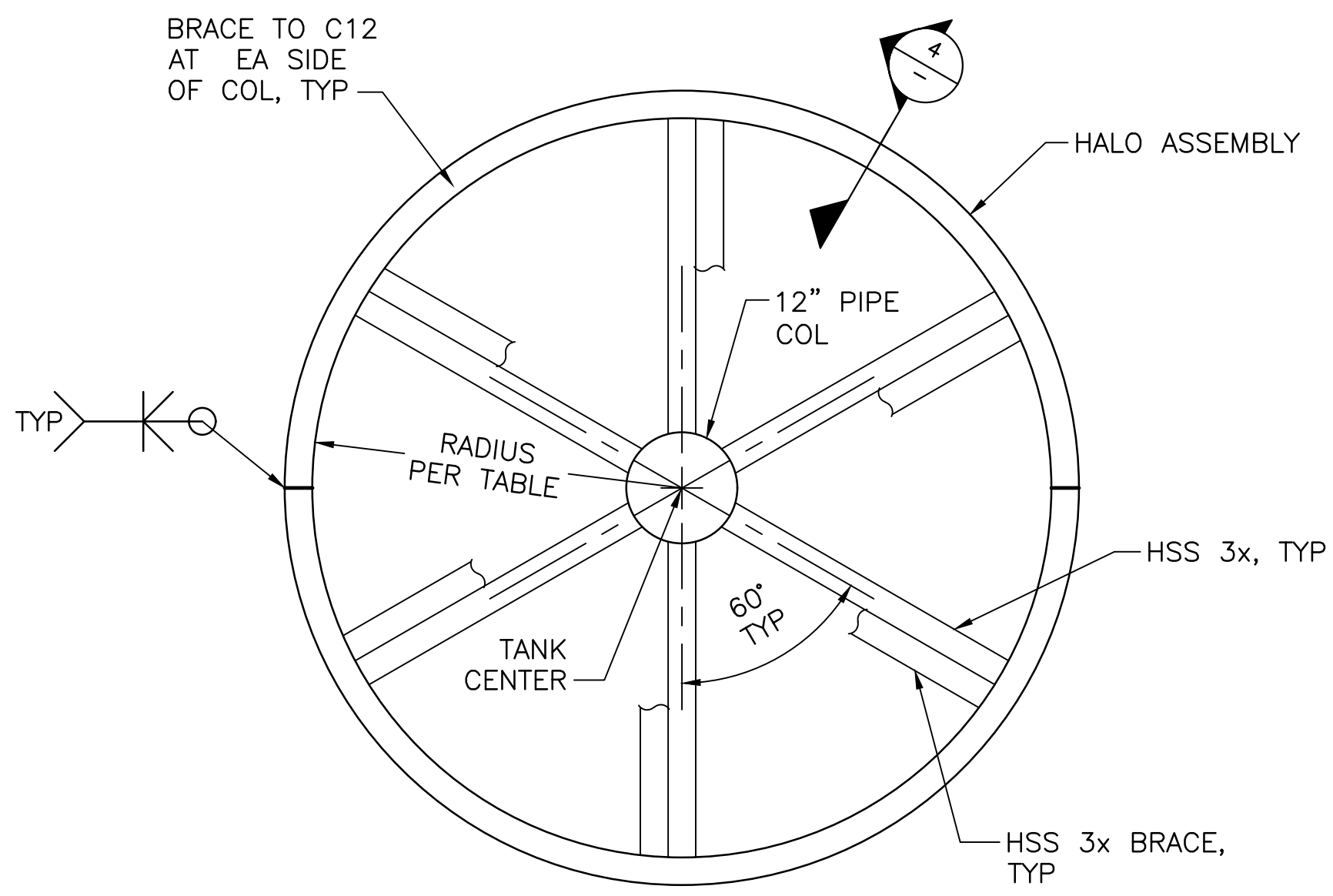
FOR REDUCED ENGLISH PLANS
ORIGINAL SCALE IS IN INCHES

DRAWING NAME: T:\CAD\75260\75260.dwg
PROJECT: 75260
DATE: 08-27-21
PLOT DATE: 08-27-21
PLOTTER: BY: jshreem

3
2
1
0

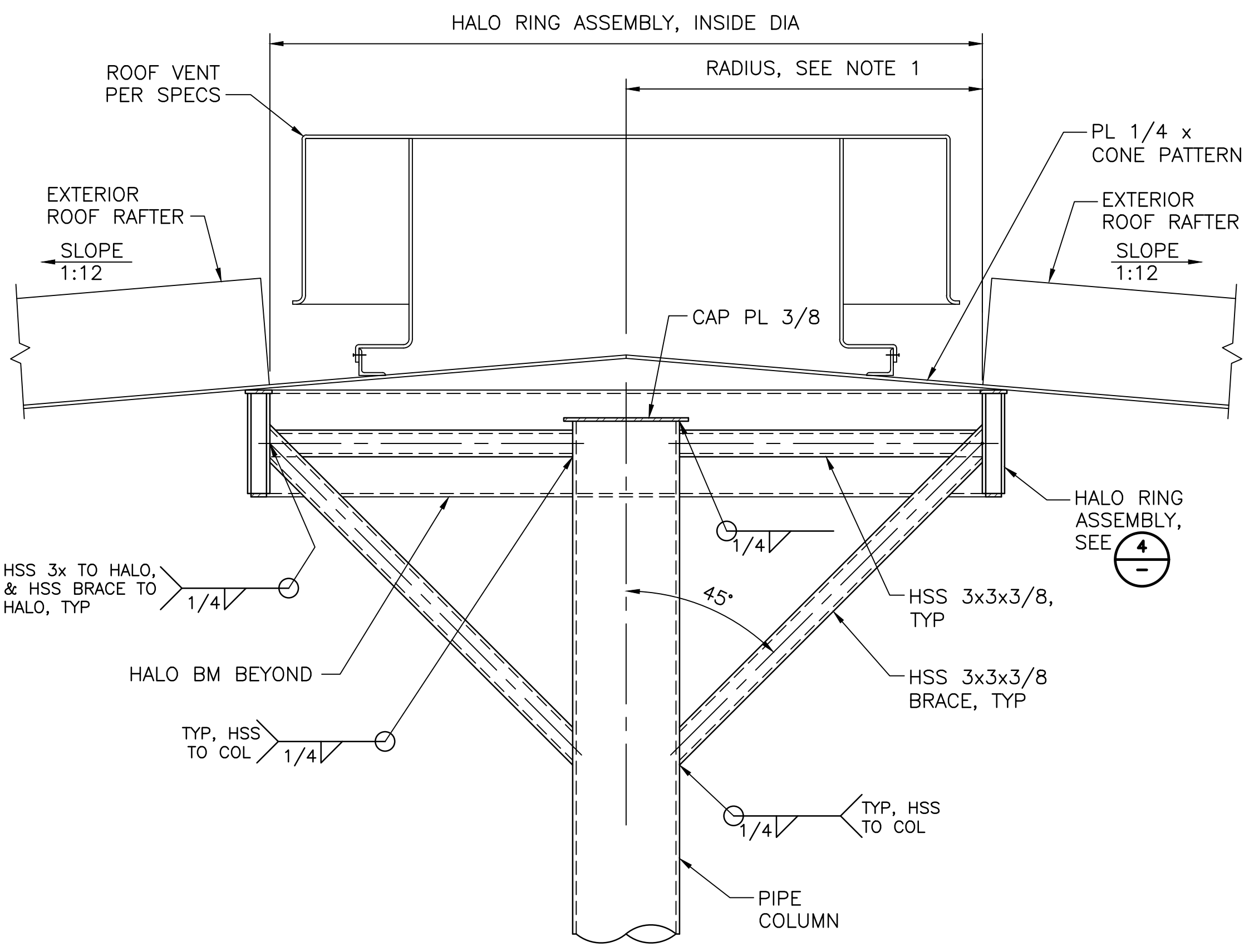


CENTER SUPPORT STRUCTURE
SECTION A
1/2" = 1'-0"



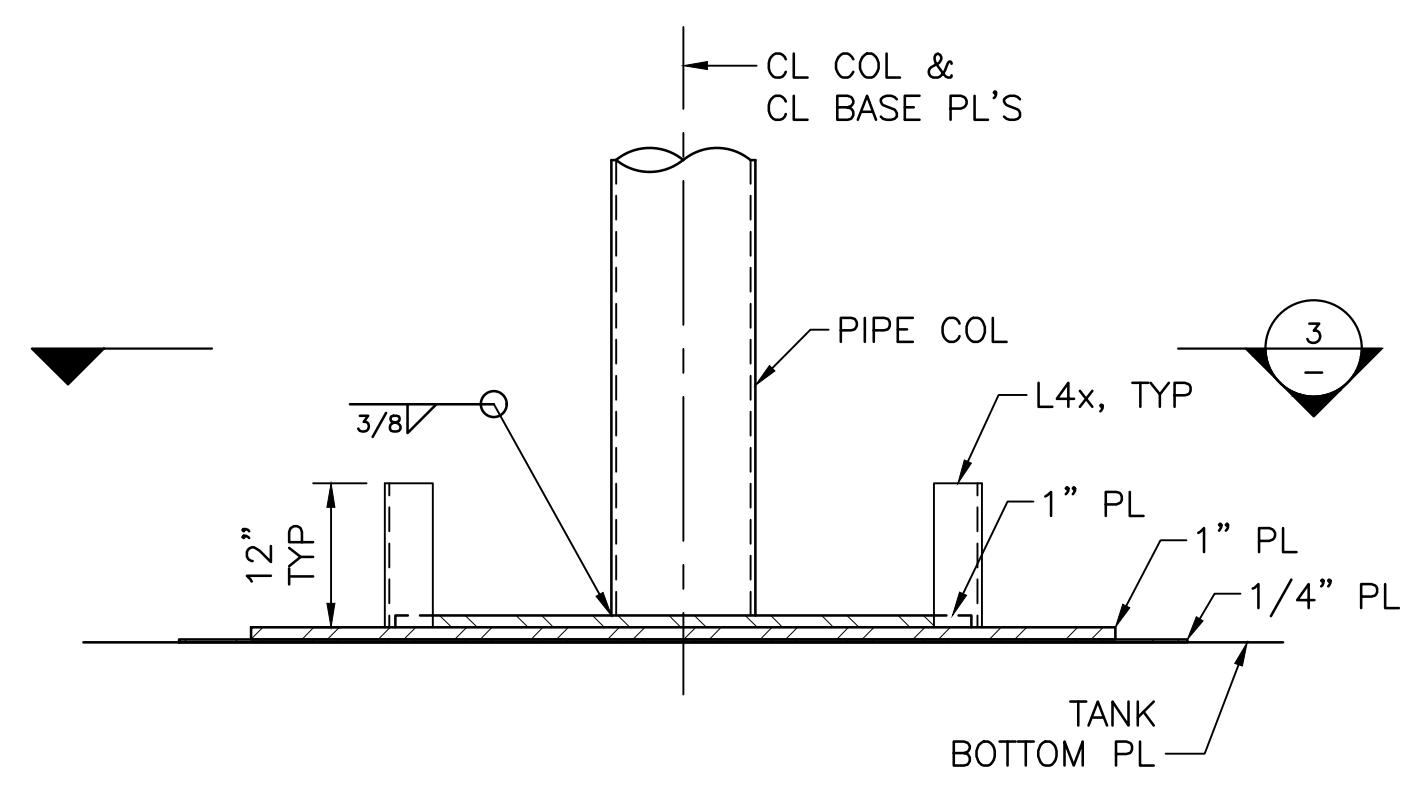
| | WEST TANK: | EAST TANK: |
|------------------------|--------------|--------------|
| TANK DIAMETER: | 60'-0" DIA | 55'-0" DIA |
| HALO BM INSIDE RADIUS: | R= 3'-4" MIN | R= 3'-0" MIN |

HALO ASSEMBLY - PLAN VIEW
SECTION B
3/4" = 1'-0"

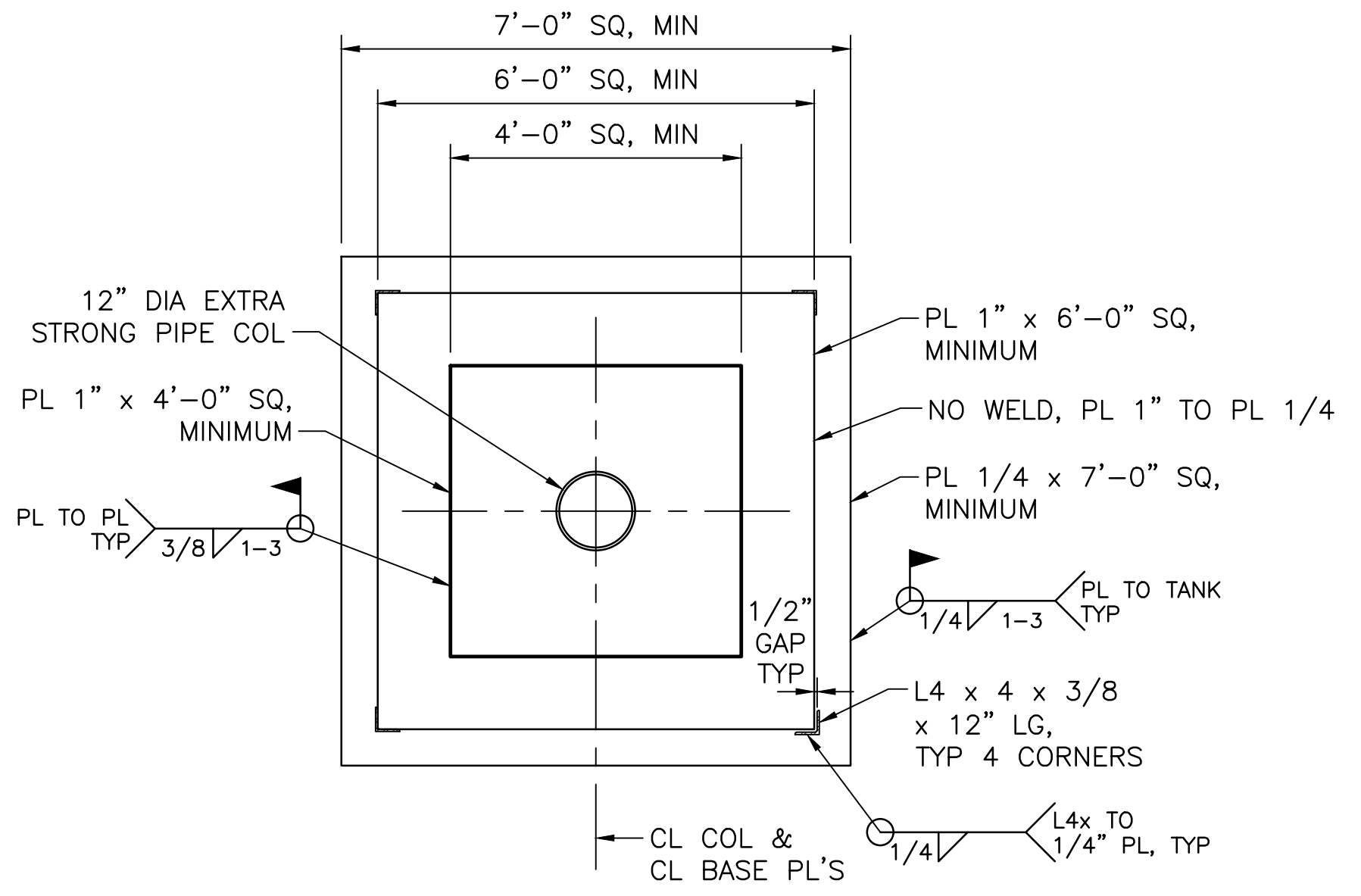


NOTES:
1. HALO ASSEMBLY DIMENSION TO INSIDE RADIUS PER TABLE ON SECTION B

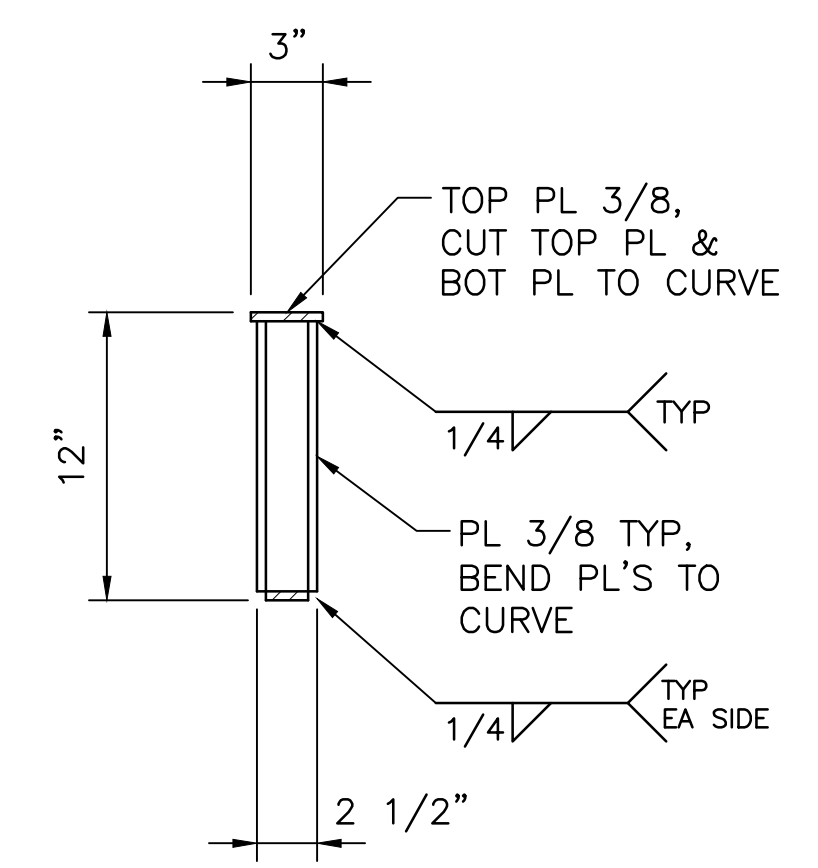
HALO ASSEMBLY
DETAIL 1
1" = 1'-0"



COLUMN BASE PLATE
DETAIL 2
3/4" = 1'-0"



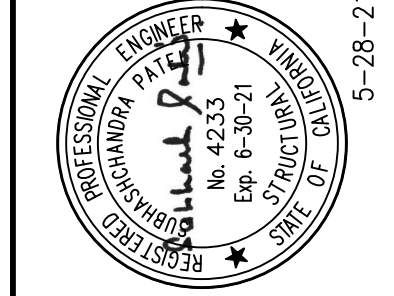
BASE PLATE - PLAN VIEW
DETAIL 3
1/2" = 1'-0"



HALO ASSEMBLY SECTION
DETAIL 4
1 1/2" = 1'-0"

REVISIONS

| NO. | DESCRIPTION | BY | DATE | APPROV |
|-----|-------------|----|------|--------|
| | | | | |
| | | | | |



Beyaz & Patel Inc.
10920 Via Frontera, Ste 210
San Diego, California, 92127
ph: 858-451-0374

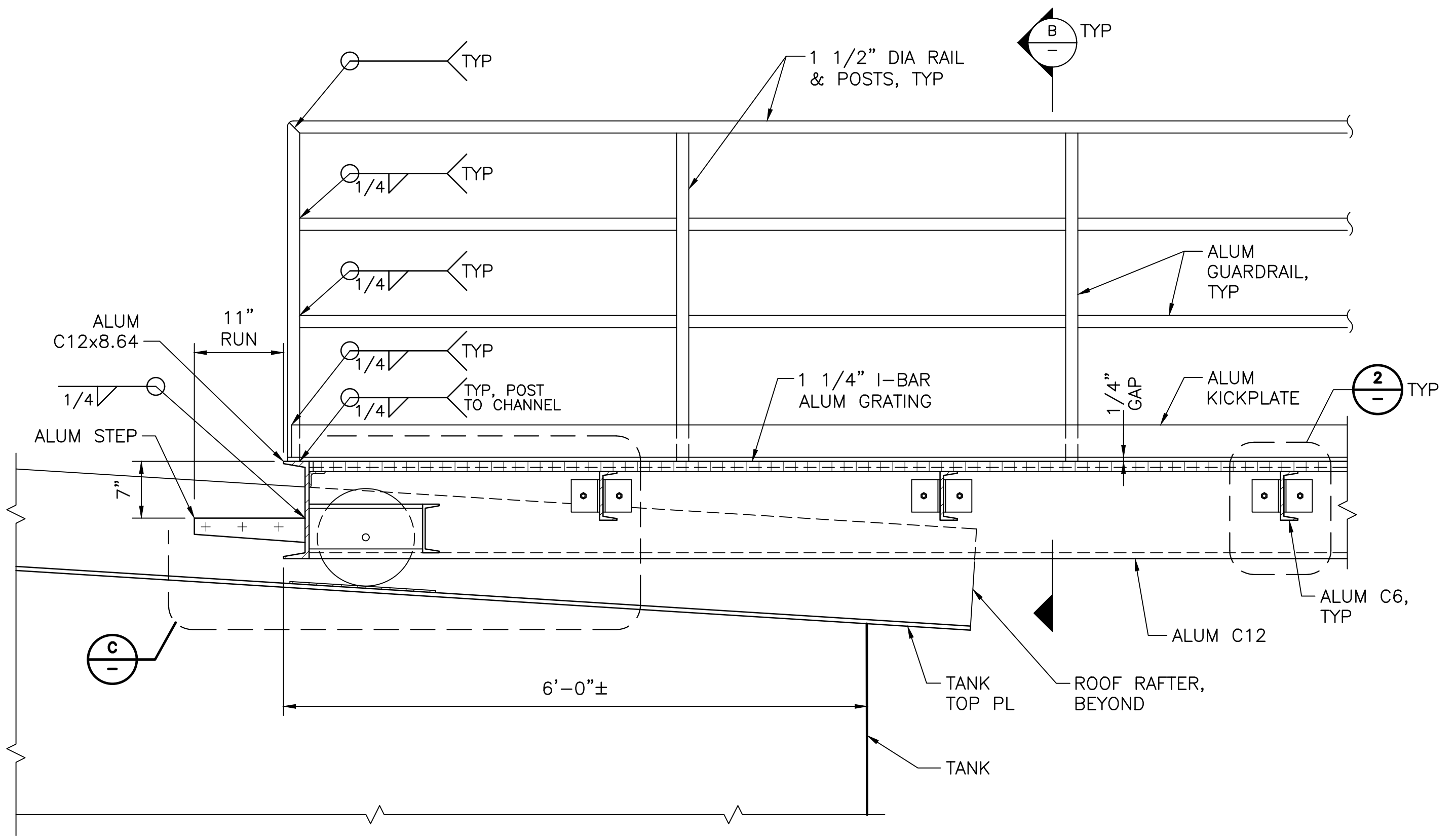
DRAWN: UNIEDERKORN
DESIGNED: G. HO
CHECKED: S. PATEL
APPROVED: S. PATEL

MID-PENINSULA WATER DISTRICT
DEKOVEN TANKS REPLACEMENT
TANK
CENTER SUPPORT STRUCTURE

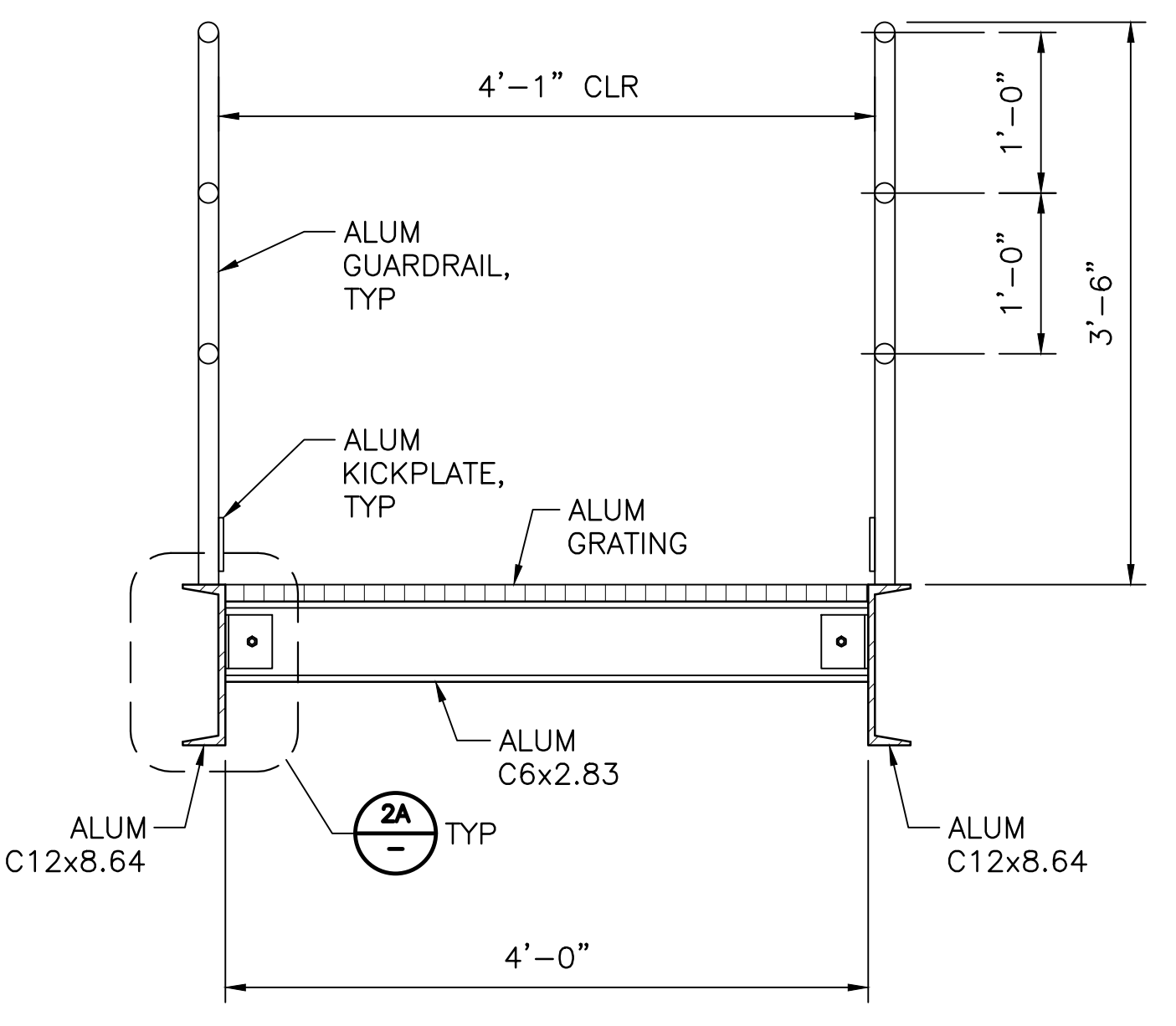
| | |
|--------------|-------|
| REVIEWED BY: | DATE: |
| | |
| REVIEWED BY: | DATE: |
| | |

FOR REDUCED ENGLISH PLANS
ORIGINAL SCALE IS IN INCHES

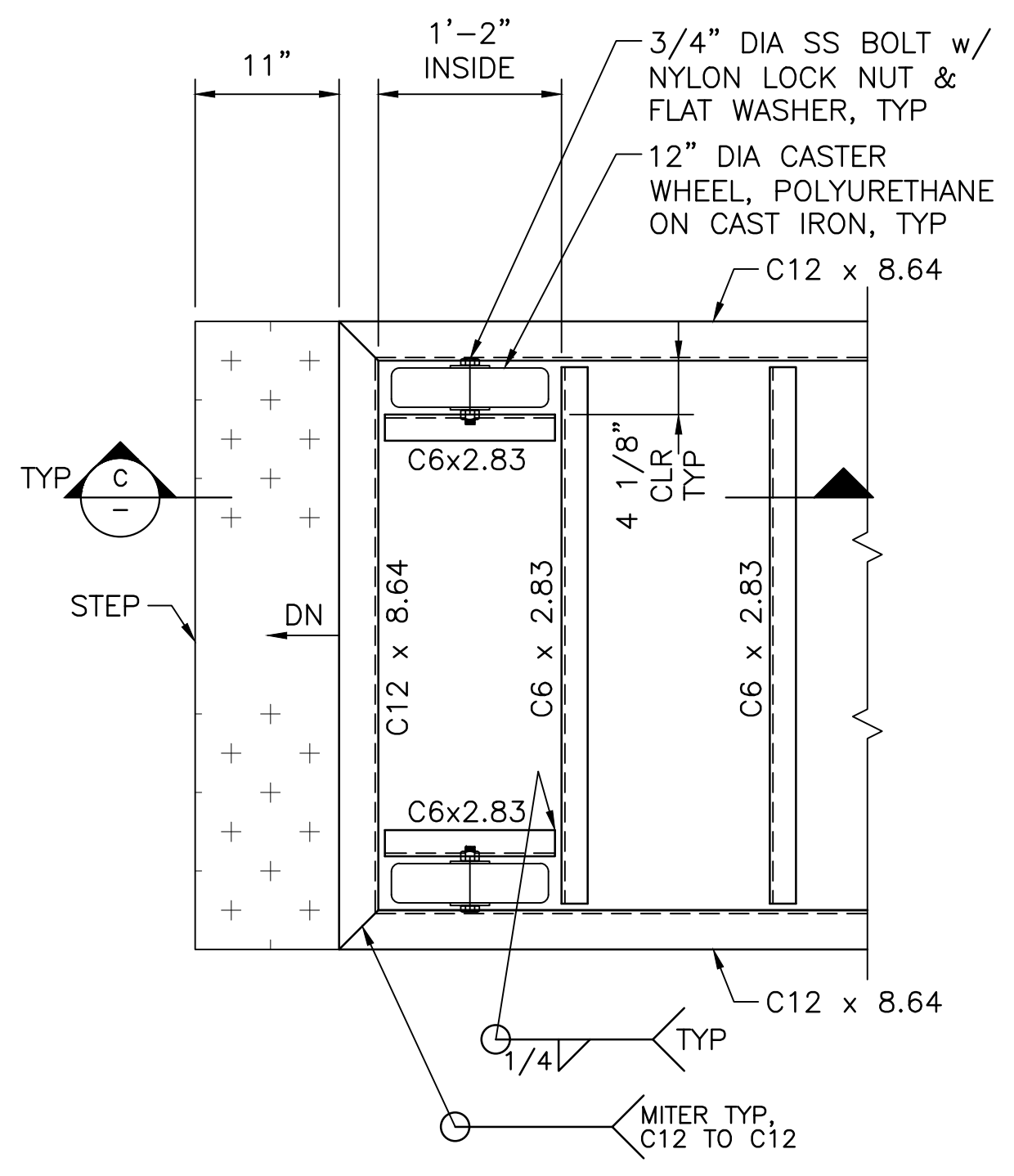
DRAWING NAME: 1\GAD\7526\7526\7526.dwg
PLOT DATE: 08-27-21
PLOTTER: HP-DesignJet



BRIDGE
SECTION A
1" = 1'-0"

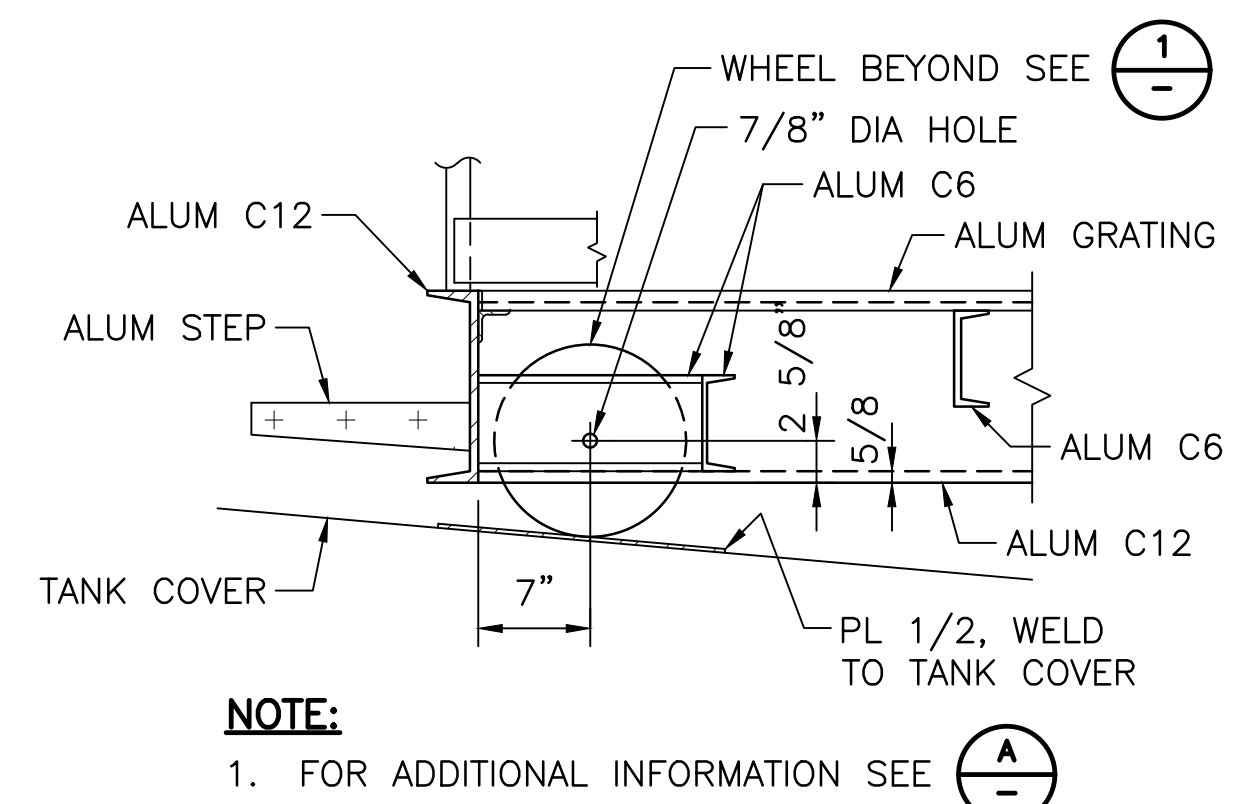


BRIDGE
SECTION B
1" = 1'-0"



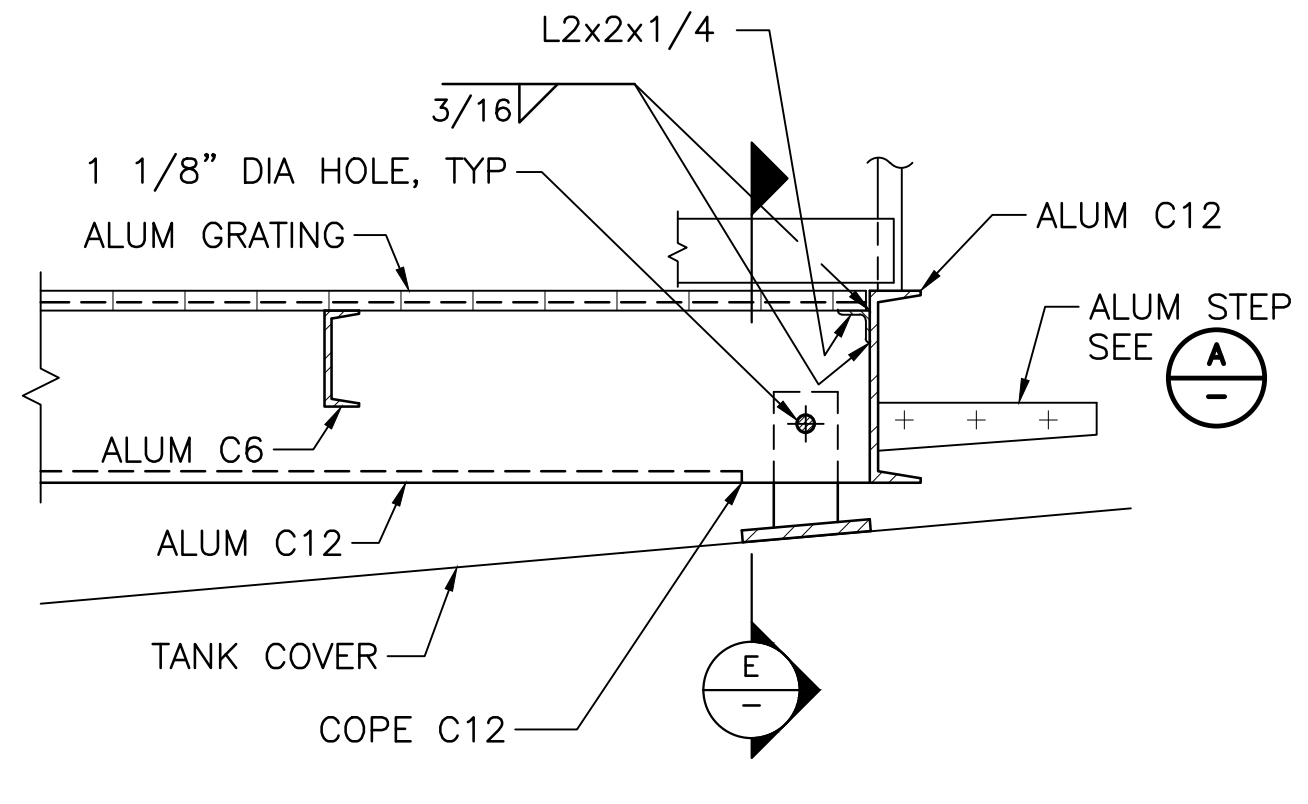
BRIDGE WHEEL END - PLAN VIEW
DETAIL 1
1" = 1'-0"

- NOTE:**
- ALL FRAMING MEMBERS SHALL BE ALUMINUM, TYPICAL, UON.
 - GRATING AND GUARD RAILS NOT SHOWN FOR CLARITY.

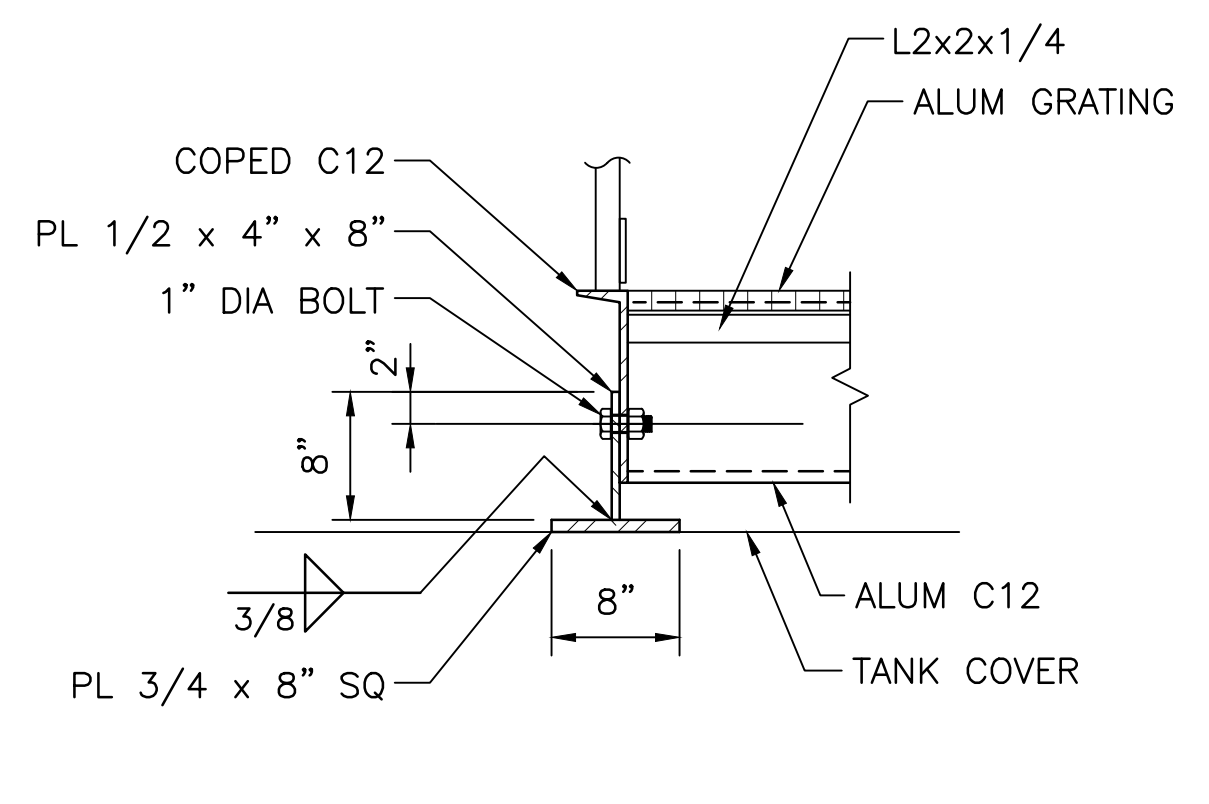


WHEEL END
SECTION C
1" = 1'-0"

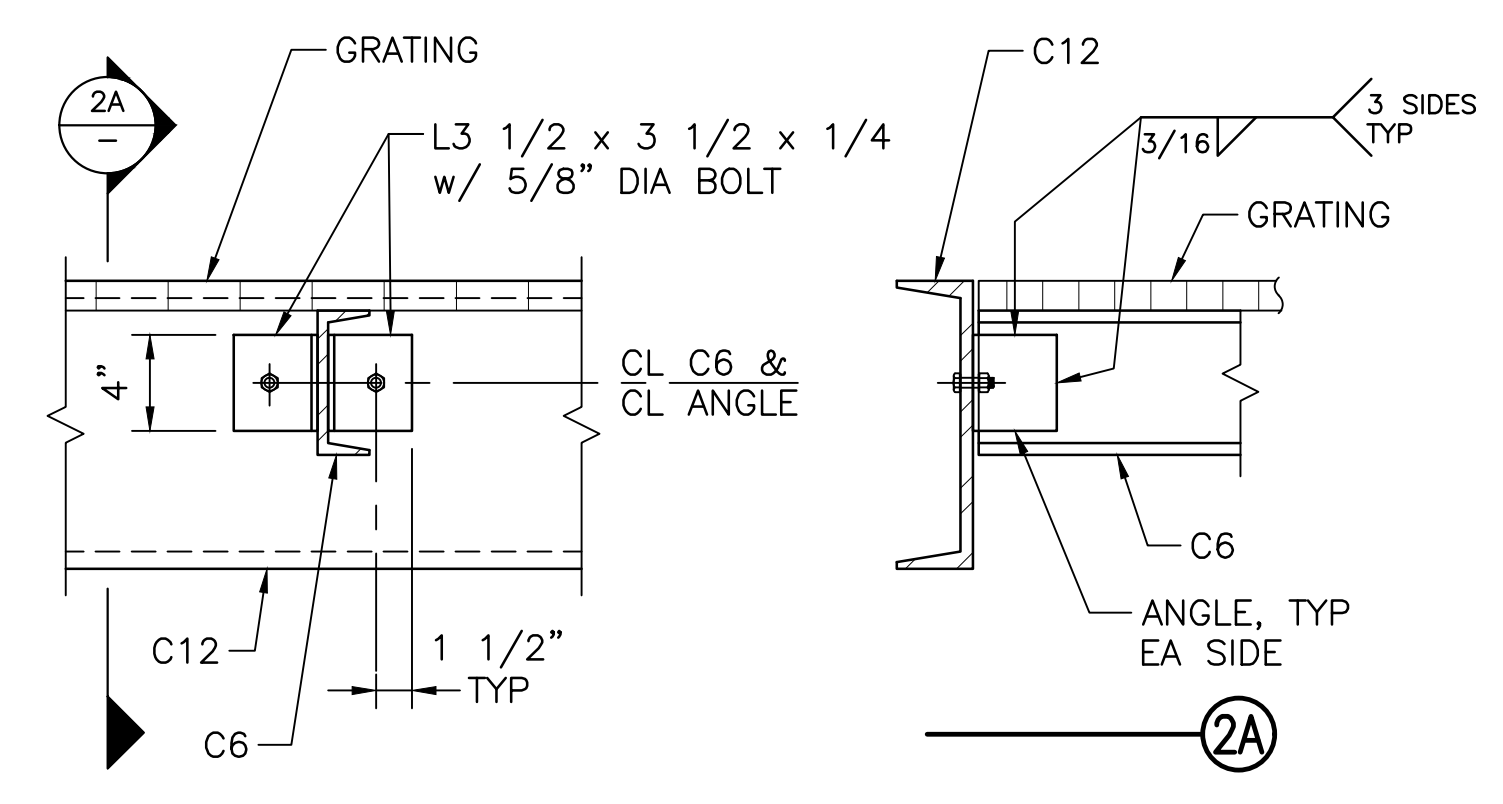
- NOTE:**
- FOR ADDITIONAL INFORMATION SEE A



PINNED CONNECTION
SECTION D
1" = 1'-0"

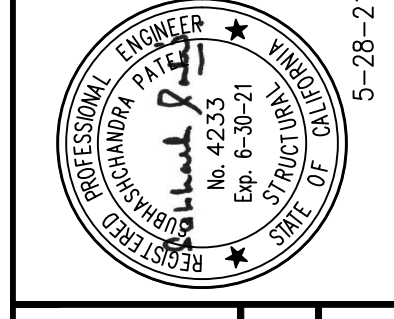


PINNED CONNECTION
SECTION E
1" = 1'-0"



C6 TO BEAM CONNECTION
DETAIL 2
1 1/2" = 1'-0"

| NO. | DESCRIPTION | BY | DATE | APPVD |
|-----|-------------|----|------|-------|
| | | | | |



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ph: 858-451-0374

CHECKED: S. PATEL
DESIGNED: S. PATEL
DRAWN: UNIEDERKORN
APPROVED: S. PATEL
G. HO

MID-PENINSULA WATER DISTRICT
DEKOVEN TANKS REPLACEMENT
TANK
BRIDGE CONNECTING TANK ROOFS

DATE: 3/26/21 SCALE: AS NOTED
PCG JOB NO.: 10012.13
PLAN: S18
SHEET: 33 OF 33