

CONTACT INFORMATION

OWNER: MARINA COAST WATER DISTRICT
 920 2ND AVENUE, SUITE A
 MARINA, CA 93933

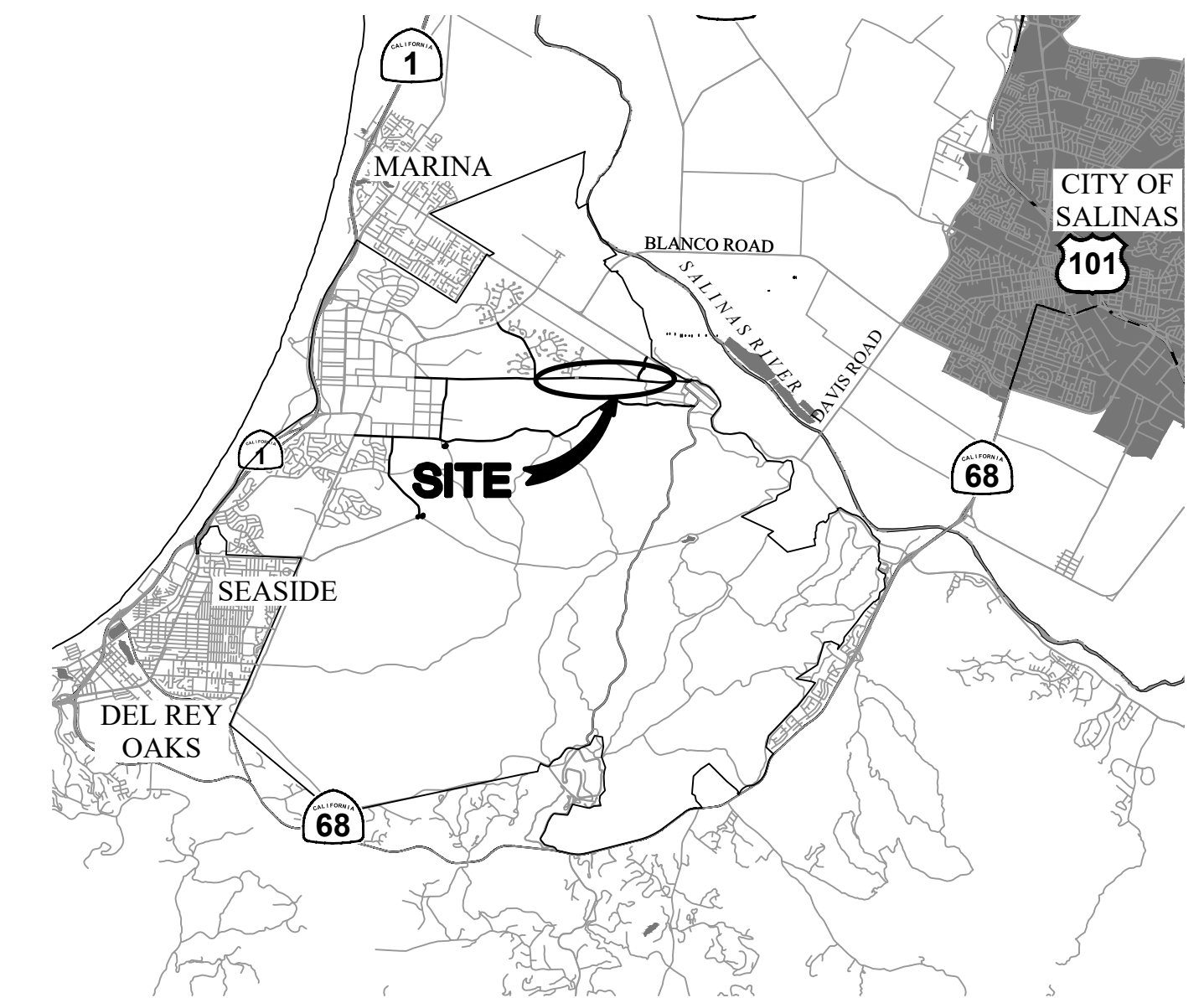
CIVIL ENGINEER: GARRETT HAERTEL
 (831) 883-5929

WHITSON ENGINEERS
 6 HARRIS COURT
 MONTEREY, CA 93940

ANDREW HUNTER, RCE 67730
 (831) 649-5225

MARINA COAST WATER DISTRICT INTER-GARRISON ROAD

WATER DISTRIBUTION PIPELINE PROJECT (CIP OW-2421) JANUARY 2025



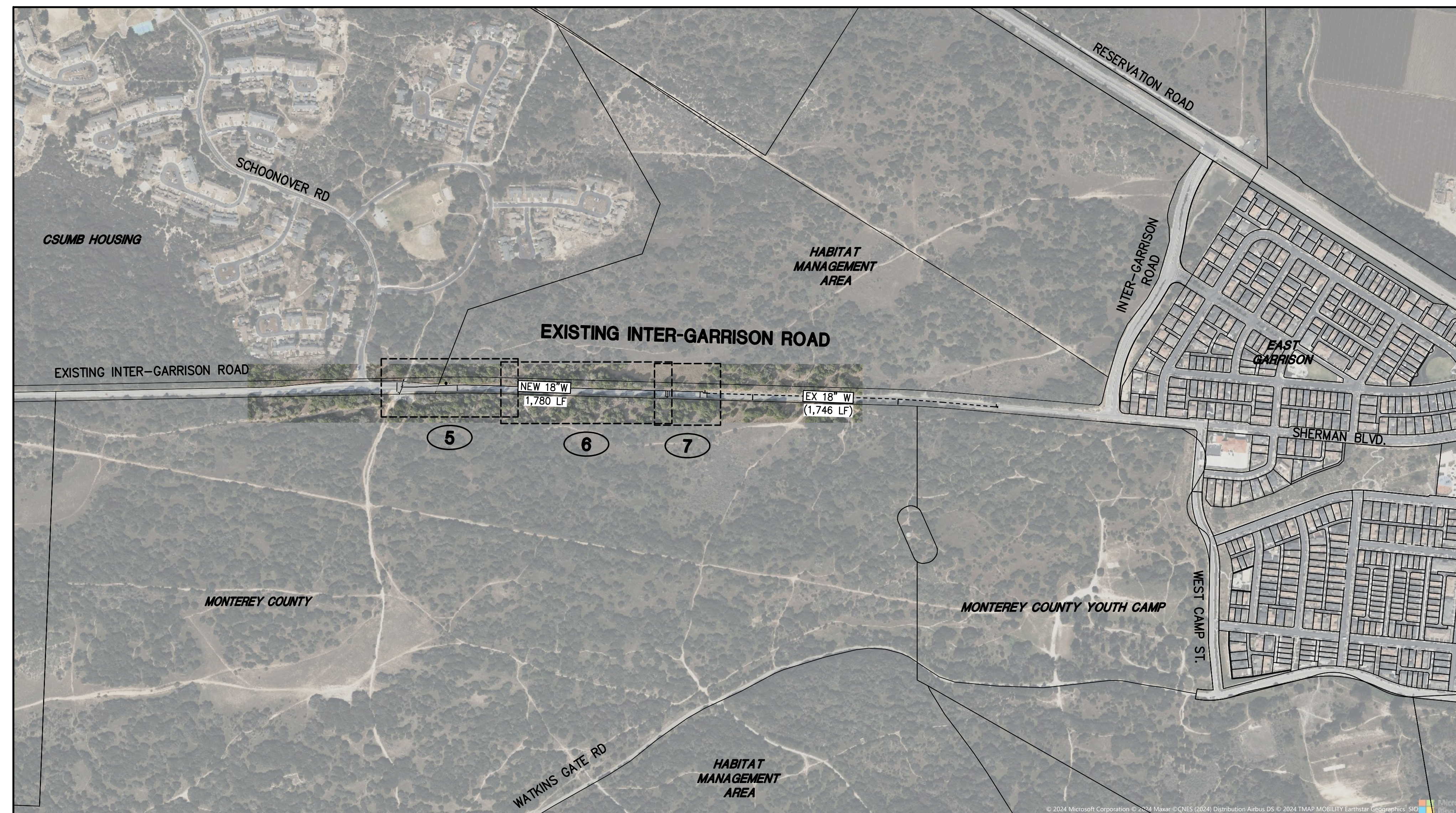
VICINITY MAP
 1" = 2 MILES

BENCHMARK

NGS BENCHMARK GU2130 (L813 RESET),
 22' WEST OF THE CENTERLINE OF A U.S. ARMY SPUR TRACK,
 ABOUT 40' NORTH OF THE NORTH END OF A CUT FOR SPUR
 TRACK, ON THE NORTH SIDE OF A FOOT PATH,
 VERTICAL 1ST ORDER, CLASS 1, ELEVATION 145.94 (NAVD 88)

SHEET INDEX

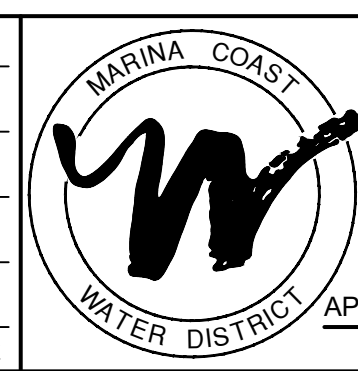
- 1 COVER SHEET
- 2 CIVIL NOTES & SPECIFICATIONS
- 3 THRUST RESTRAINT AND MCWD DETAILS
- 4 MCWD STANDARD DETAILS
- 5 PLAN AND PROFILE STA. 9+50 - 16+50
- 6 PLAN AND PROFILE STA. 16+50 - 25+50
- 7 PLAN AND PROFILE STA. 25+50 - 28+50



KEY MAP
 1" = 400'

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NO.	REVISION DESCRIPTION	DATE	APPR



MARINA COAST WATER DISTRICT
 11 RESERVATION ROAD
 MARINA, CA 93933
 (831) 384-6131

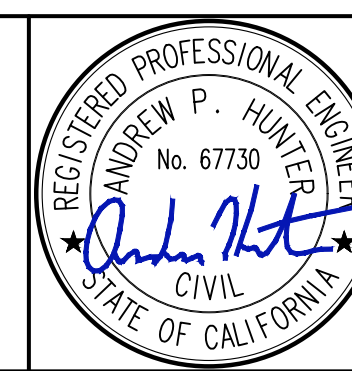
APPROVED FOR CONSTRUCTION:

GARRETT HAERTEL, P.E., DISTRICT ENGINEER

DATE



Civil Engineering
 Land Surveying
 6 Harris Court
 Monterey, California
 831.649.5225
 whitsonengineers.com



INTER-GARRISON ROAD WATER LINE

COVER SHEET

DATE:	01/31/25
SCALE:	1"=400'
DESIGN:	ML
DRAWN:	ML
CHECK:	APH

SHEET
1
 OF
7

GENERAL

- CONSTRUCTION CONTRACTOR AGREES THAT, IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL(S) HARMLESS FROM ANY AND ALL LIABILITY, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL(S).
- ALL WORK SHALL BE PERFORMED IN CONFORMANCE WITH:
 - ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, REGULATIONS, ORDINANCES, AND RULES, INCLUDING WITHOUT LIMITATION:
 - CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATIVE CODE (CAL-OSHA)
 - CALIFORNIA CODE 4216 – PROTECTION OF UNDERGROUND INFRASTRUCTURE
 - MARINA COAST WATER DISTRICT STANDARD PLANS AND SPECIFICATIONS (LATEST EDITION)
 - THE 2022 CALIFORNIA BUILDING STANDARDS CODE (CBC TITLE 24), WITH AMENDMENTS ADOPTED BY THE JURISDICTION HAVING AUTHORITY
 - CALIFORNIA EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
 - THE PROJECT PLANS AND SPECIFICATIONS
 - THE 2022 EDITION OF "STANDARD SPECIFICATIONS," STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION (CALTRANS), AS AMENDED BY THE MOST CURRENT "REVISED STANDARD SPECIFICATIONS". THE "STANDARD SPECIFICATIONS" AND "REVISED STANDARD SPECIFICATIONS" CAN BE DOWNLOADED FOR FREE FROM http://www.dot.ca.gov/hq/esc/oe/construction_standards.html
 - THE 2022 EDITION OF "STANDARD PLANS," STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION (CALTRANS), AS AMENDED BY THE MOST CURRENT "REVISED STANDARD PLANS". THE "STANDARD PLANS" AND "REVISED STANDARD PLANS" CAN BE DOWNLOADED FOR FREE FROM http://www.dot.ca.gov/hq/esc/oe/construction_standards.html
- CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL CURRENTLY APPLICABLE SAFETY LAWS OF ALL APPLICABLE JURISDICTIONAL BODIES. FOR INFORMATION REGARDING THIS PROVISION, THE CONTRACTOR IS DIRECTED TO CONTACT STATE OF CALIFORNIA, DIVISION OF OCCUPATIONAL SAFETY AND HEALTH, SALINAS, CALIFORNIA AT PHONE (831) 443-3050.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL BARRICADES, SAFETY DEVICES AND CONTROL OF TRAFFIC WITHIN THE CONSTRUCTION AREA.
- ESTIMATED START: 03/01/2025, ESTIMATED COMPLETION: 05/01/2025.
- IF, DURING THE COURSE OF CONSTRUCTION, CULTURAL, ARCHAEOLOGICAL, HISTORICAL OR PALEONTOLOGICAL RESOURCES ARE UNCOVERED AT THE SITE (SURFACE OR SUBSURFACE RESOURCES) WORK SHALL BE HALTED IMMEDIATELY WITHIN 50 METERS (165 FEET) OF THE FIND UNTIL A QUALIFIED PROFESSIONAL ARCHEOLOGIST CAN EVALUATE IT. MONTEREY COUNTY RMA – PLANNING AND A QUALIFIED ARCHAEOLOGIST (I.E. AN ARCHAEOLOGIST REGISTERED WITH THE REGISTER OF PROFESSIONAL ARCHAEOLOGISTS) SHALL BE IMMEDIATELY CONTACTED BY THE RESPONSIBLE INDIVIDUAL PRESENT ON-SITE. WHEN CONTACTED, THE PROJECT PLANNER AND THE ARCHAEOLOGIST SHALL IMMEDIATELY VISIT THE SITE TO DETERMINE THE EXTENT OF THE RESOURCES AND TO DEVELOP PROPER MITIGATION MEASURES REQUIRED FOR THE DISCOVERY

EXISTING CONDITIONS

- TOPOGRAPHY IS BASED ON AN AERIAL SURVEY PREPARED BY WHITSON ENGINEERS IN JULY 2010. ORTHORECTIFIED IMAGE OBTAINED BY SMALL UNMANNED AIRCRAFT ON NOVEMBER 11, 2024. SUPPLEMENTAL GROUND SURVEY COMPLETED DECEMBER 9, 2024.
- ALL "MATCH" OR "JOIN" CALLOUTS ON THE PLANS SHALL BE FIELD VERIFIED FOR EXACT LOCATION AND ELEVATION PRIOR TO CONSTRUCTION. NOTIFY THE ENGINEER IN THE CASE OF ANY FIELD DISCREPANCY.
- THE CONSTRUCTION CONTRACTOR SHALL MAINTAIN A CURRENT, COMPLETE, AND ACCURATE RECORD OF ALL DEVIATIONS FROM THE WORK PROPOSED IN THESE PLANS AND SPECIFICATIONS, AND A RECORD DRAWING SET SHALL BE PREPARED AND PROVIDED TO THE ENGINEER AT THE COMPLETION OF WORK. CHANGES SHALL NOT BE MADE WITHOUT THE PRIOR WRITTEN APPROVAL OF THE DESIGN ENGINEER.
- THE EXISTENCE, LOCATION AND ELEVATION OF ANY UNDERGROUND FACILITIES ARE SHOWN ON THESE PLANS IN A GENERAL WAY ONLY. NOT ALL UTILITIES MAY BE SHOWN. IT IS MANDATORY THAT THE CONTRACTOR EXPOSE AND VERIFY THE TOP AND BOTTOM OF ALL UTILITIES PRIOR TO ANY WORK ON SYSTEMS WHICH MAY BE AFFECTED BY THE EXISTING UTILITY'S LOCATION. IT IS THE RESPONSIBILITY AND DUTY OF THE CONTRACTOR TO MAKE THE FINAL DETERMINATION AS TO THE EXISTENCE, LOCATION AND ELEVATION OF ALL UTILITIES AND TO BRING ANY DISCREPANCY TO THE ATTENTION OF THE ARCHITECT.
- BOUNDARY INFORMATION SHOWN IS FROM RECORD DATA. A BOUNDARY SURVEY WAS NOT PERFORMED AS A PART OF THIS WORK. THERE MAY BE EASEMENTS OR OTHER RIGHTS, RECORDED OR UNRECORDED, AFFECTING THE SUBJECT PROPERTY WHICH ARE NOT SHOWN HEREON.

GRADING AND DRAINAGE

- ONSITE GRADING AND EARTHWORK, SITE PREPARATION, EXCAVATION, TRENCHING AND COMPACTION SHALL BE OBSERVED AND TESTED BY THE GEOTECHNICAL ENGINEER DESIGNATED BY THE OWNER. ALL GRADING AND EARTHWORK SHALL BE DONE TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER.
- SHOULD THE RESULTS OF ANY COMPACTION TEST FAIL TO MEET THE MINIMUM REQUIRED DENSITY AS SPECIFIED BY MCWD, THE DEFICIENCY SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE. THE EXPENSE OF RETESTING SUCH AREAS SHALL ALSO BE BORNE BY THE CONTRACTOR, AT NO COST TO THE OWNER.
- RELATIVE COMPACTION SHALL BE EXPRESSED AS A PERCENTAGE OF THE MAXIMUM DRY DENSITY OF THE MATERIAL AS DETERMINED BY ASTM TEST D-1557. IN-PLACE DENSITY TESTS SHALL BE CONDUCTED IN ACCORDANCE WITH ASTM TESTS D-1556 AND D-6938.
- SURPLUS EXCAVATED MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OFF THE SITE IN A LEGAL MANNER.
- ALL RE-COMPACTED AND ENGINEERED FILL SOILS SHALL BE COMPACTED WITHIN 2 PERCENT OF THE LABORATORY OPTIMUM MOISTURE CONTENT FOR THE SOIL.

MCWD STANDARD WATER NOTES:

- THE WATER SYSTEM AS SHOWN ON THESE PLANS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARD PLANS AND SPECIFICATIONS OF THE MARINA COAST WATER DISTRICT. CONTRACTOR SHALL KEEP A COPY OF THE STANDARD SPECIFICATIONS AND DRAWINGS ON THE JOBSITE AT ALL TIMES.
- THE MARINA COAST WATER DISTRICT SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO COMMENCING WORK ON THE WATER SYSTEM. PHONE (831) 883-5929 FOR INSPECTION. A PRE-CONSTRUCTION MEETING SHALL BE HELD AT LEAST 24 HOURS BEFORE STARTING CONSTRUCTION.
- ALL WATER SYSTEM WORK SHALL CONFORM TO THE DISTRICT'S "STANDARD PLANS AND SPECIFICATIONS," AS LAST REVISED. THE CONTRACTOR SHALL HAVE A COPY OF THESE PLANS AND STANDARD SPECIFICATIONS ON THE JOB AT ALL TIMES.
- A CONFERENCE OF REPRESENTATIVES FROM AFFECTED AGENCIES AND THE CONTRACTOR SHALL BE HELD ON THE JOB SITE 24 HOURS PRIOR TO START OF WORK.
- DOMESTIC WATER MAINS SHALL BE INSTALLED AS STAKED BY THE DISTRICT'S SURVEYOR AT A MINIMUM 50-FOOT STATIONING, IF THERE ARE NO EXISTING CURBS.
- ALL NUTS AND BOLTS, SHALL BE GRADE 316 STAINLESS STEEL. ALL BURIED FLANGES, VALVES AND FITTINGS SHALL BE WRAPPED WITH 10-MIL POLYETHYLENE SHEET.
- ANY WATER SERVICE FOUND TO BE WITHIN A DRIVEWAY OR SIDEWALK SHALL BE REMOVED AT CORPORATION VALVE AND REINSTALLED AT THE PROPER LOCATION, AT NO COST TO THE DISTRICT.
- ALL MAIN LINE VALVES SHALL BE MAINTAINED SO AS TO BE ACCESSIBLE DURING TRACT DEVELOPMENT, AND ALL VALVE STEM TOPS HAVING OVER 48 INCHES OF COVER MAY REQUIRE AN EXTENSION AS PER MCWD STANDARD PLAN W-7.
- THE TOP OF THE PIPE SHALL BE A MINIMUM OF 42 INCHES OF COVER FROM THE FINISHED GRADE IN PAVED SECTIONS, UNLESS INDICATED OTHERWISE ON THE JOB PLANS OR DIRECTED OTHERWISE BY THE DISTRICT BECAUSE OF UNUSUAL CONDITIONS. PIPE SHALL BE BEDDED AND BACKFILLED PER MCWD STANDARD PLAN W-12.
- FIRE HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH THE APPROPRIATE DETAILS HEREIN AND INSTALLED BEHIND CURBS AND SIDEWALKS WHERE THE SIDEWALKS ARE ADJACENT TO THE CURBS. FIRE HYDRANTS SHALL BE PER THE DISTRICT'S SPECIFICATIONS AND SHALL HAVE A CONCRETE PAD POURED AROUND THEM. ALL FIRE HYDRANTS SHALL BE SET WITH THE BOTTOM FLANGE 4 INCHES ABOVE THE CONCRETE PAD OR SIDEWALK.
- NO FACILITY IS TO BE BACKFILLED UNTIL INSPECTED BY THE DISTRICT.
- SHUT DOWN OR TAPPING OF EXISTING DOMESTIC WATERLINES TO FACILITATE CONNECTION TO EXISTING FACILITIES SHALL BE COORDINATED WITH THE DISTRICT AT LEAST 24 HOURS IN ADVANCE. ANY RELOCATION OF EXISTING FACILITIES IS SUBJECT TO APPROVAL OF THE DISTRICT ENGINEER.
- NO TAPS OR OTHER CONNECTIONS SHALL BE MADE TO EXISTING DISTRICT WATER MAINS PRIOR TO CONDUCTING AN APPROVED PRESSURE AND BACTERIOLOGICAL TEST ON THE NEW WATER DISTRIBUTION SYSTEM. TAPPING SLEEVES SHALL BE PRESSURE TESTED IN AN APPROVED MANNER IN THE FIELD IN THE PRESENCE OF THE DISTRICT INSPECTOR, PRIOR TO TAPPING THE MAIN LINE. TAPPING OF THE MAIN LINE SHALL NOT PROCEED UNLESS A DISTRICT INSPECTOR IS PRESENT.
- ALL WATER SERVICES SHALL BE INSTALLED PER THE DISTRICT'S STANDARD SPECIFICATIONS. ALL METERS SHALL BE INSTALLED IN GRASS OR PLANTER AREAS AND ACCESSIBLE BY VEHICLE. ANY SERVICES LOCATED IN SIDEWALKS ARE SUBJECT TO THE APPROPRIATE GOVERNING AGENCY AND DISTRICT APPROVAL. ANY METERS LOCATED IN BANKS OF 4 SHALL BE MANIFOLDED PER MCWD STANDARD PLAN W-3. ALL METER REGISTERS AND LIDS SHALL BE MARKED WITH ADDRESS IDENTIFICATION.
- WHERE METERS AND METER BOXES ARE LOCATED WITHIN SLOPES, THE ANGLE METER STOPS SHALL BE SO LOCATED THAT THE METERS AND BOXES WILL BE PARALLEL AND FLUSH, RESPECTIVELY, WITH THE FINISHED STREET SURFACE. A RETAINING WALL MAY BE REQUIRED AROUND THE METER BOX.
- THE APPLICANT SHALL FURNISH AND INSTALL THE SERVICE CONNECTIONS BETWEEN WATER MAINS AND METERS AND METER BOXES. WATER SERVICES SHALL BE INSTALLED TO THE PROPERTY LINE PRIOR TO PAVING OF THE STREET.
- ALL VALVES SHALL BE LOCATED OFF THE TEE UNLESS OTHERWISE APPROVED BY THE DISTRICT. AT INTERSECTIONS AND BUS STOPS WITH CONCRETE PADS, THE MAIN LINE SHALL BE ROPE TO AVOID CROSS GUTTER CONFLICT.
- ALL WATER METERS WILL BE FURNISHED BY THE MARINA COAST WATER DISTRICT FOLLOWING RECEIPT OF APPLICATION AND DEPOSIT. THE DISTRICT WILL INSTALL WATER METERS UP TO 2 INCHES. THE CONTRACTOR SHALL INSTALL WATER METERS 3 INCHES AND GREATER. THE CONTRACTOR SHALL PLACE ALL PIPING PER DISTRICT PLANS AND PROPERLY LOCATE THE METER BOXES TO GRADE PRIOR TO INSTALLATION OF THE METERS BY THE DISTRICT.
- ANY DISTRICT WATER USED FOR CONSTRUCTION SHALL BE METERED WITH A CONSTRUCTION METER OBTAINED FROM THE DISTRICT.
- AN ENCROACHMENT PERMIT FROM THE COUNTY OR CITY HAVING JURISDICTION IS REQUIRED PRIOR TO ANY WORK WITHIN PUBLIC RIGHT-OF-WAY OR EASEMENT.
- THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITIES OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. APPROVAL OF THESE PLANS BY THE DISTRICT DOES NOT GUARANTEE THE ACCURACY, COMPLETENESS, LOCATION, OR THE EXISTENCE OR NON-EXISTENCE OF ANY UTILITY PIPE OR STRUCTURE WITHIN THE LIMITS OF THIS PROJECT. THE CONTRACTOR IS REQUIRED TO TAKE ALL DUE PRECAUTIONARY MEANS NECESSARY TO PROTECT THOSE UTILITY LINES NOT SHOWN ON THESE PLANS.
- THE APPLICANT SHALL REMOVE TO THE SATISFACTION OF THE MCWD INSPECTOR ALL UNUSED WATER STUBS AND/OR SERVICES THAT WERE PROVIDED TO THE PROJECT SITE.

DEMOLITION

REPLACEMENT OF PAVEMENTS

PIPE TRENCHING WORK IN EXISTING IMPROVED STREETS SHALL INCLUDE REPLACEMENT OF EXISTING PAVEMENT. THE THICKNESS OF THE NEW AC AND AB SHALL BE AT A MINIMUM EQUIVALENT TO THE EXISTING AC AND AB THICKNESS. TRENCH PATCH SHALL EXTEND A MINIMUM 6" BEYOND TRENCH WALL.

SAWCUTTING

SAWCUTTING SHALL BE DONE SO AS TO PROVIDE A STRAIGHT, NEAT EDGE. WHERE CONSTRUCTION OPERATIONS CAUSE DAMAGE BEYOND THE LIMITS OF THE SAWCUT LINE, THE DAMAGED AREA SHALL ALSO BE REMOVED AND REPLACED TO A SAWCUT EDGE.

SAWCUT SLURRY SHALL BE VACUUMED AND NOT BE ALLOWED TO RUN INTO CATCH BASINS.

ASPHALT CONCRETE PAVEMENT SHALL BE SAWCUT AT THE LOCATIONS INDICATED BY THE ENGINEER AND AS SHOWN ON THE PLANS. SAWCUT LINES SHALL BE PARALLEL OR PERPENDICULAR TO AN ADJACENT CURB LINE OR PAVEMENT EDGE WHERE POSSIBLE. SAWCUT SHALL BE TO A MINIMUM DEPTH OF 2 INCHES.

UTILITY REMOVAL AND ABANDONMENT

PRECAUTION SHOULD BE TAKEN DURING GRADING AND UTILITY REMOVAL ACTIVITIES TO PREVENT BREAKAGE OF ACP OR TRANSITE PIPES AS NOT TO RENDER THE PIPE MATERIAL FRIABLE. WHEN ACP OR TRANSITE PIPE IS ENCOUNTERED, APPROPRIATE ACTION FOR REMOVAL AND DISPOSAL SHOULD BE FOLLOWED.

WATER SYSTEM

BURIED WATER PIPE AND FITTINGS

DUCTILE IRON PIPE: AWWA C-151, 18" PIPE = CLASS 250, 10"-12" PIPE = CLASS 350, CEMENT MORTAR LINED PER AWWA C-104

DUCTILE IRON FITTINGS: AWWA C-110 OR C-153, CLASS 250, WITH RUBBER GASKETED JOINT PER AWWA C-111. FITTING SHALL BE CEMENT MORTAR LINED PER AWWA C-104.

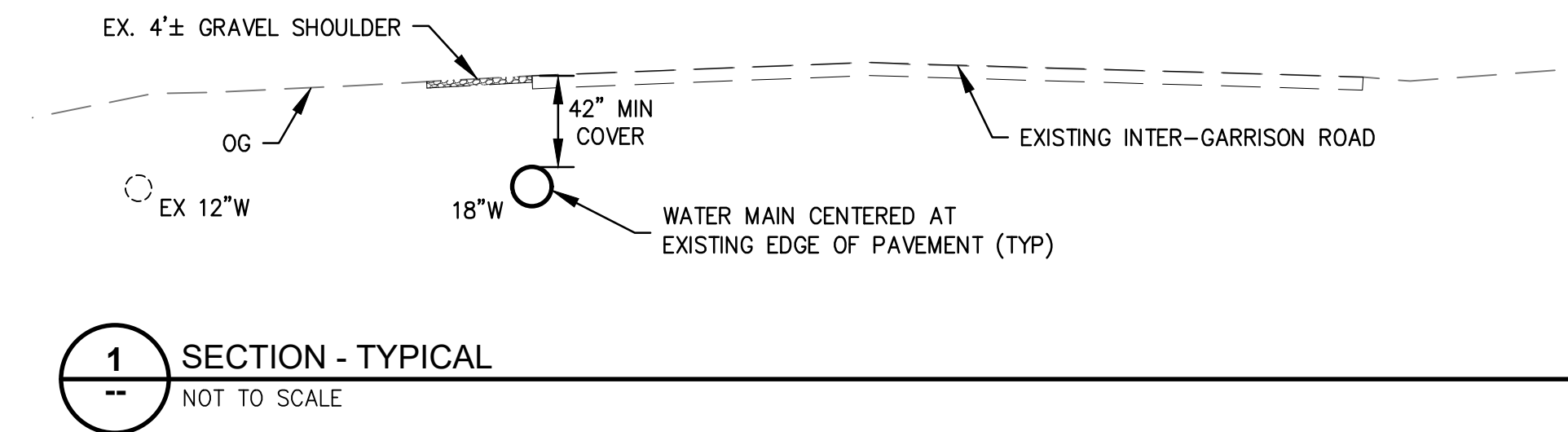
THRUST RESTRAINT

RESTRAIN ALL PIPE JOINTS PER DETAIL ON SHEET 3 USING FIELD LOK 350 GASKETS. RESTRAIN ALL FITTINGS USING EBAA MEGALUG SERIES 1100.

LEGEND

EXISTING	PROPOSED	
---	---	FUTURE GROUND CONTOUR
---	---	EXISTING GROUND CONTOUR
---	---	PROPERTY LINE
---	---	EASEMENT LINE
---	---	CENTER LINE
△100		CONTROL POINT
⊕ BM		BENCHMARK
⊕ BH-1		BORE HOLE / BORING LOCATION
× 210.6		SPOT GRADE
● 12" OAK		TREE
~~~~~		TREE DRIP LINE
---	---	WATER LINE
⊙	⊙	WATER VALVE/ARV
⊙	⊙	BLOW OFF VALVE
⊙	⊙	FIRE HYDRANT
---	---	OVERHEAD UTILITY LINES
---	---	TYPE II AC SLURRY SEAL
---	---	EXISTING INTER-GARRISON ROAD AC
---	---	EXISTING INTER-GARRISON ROAD GRAVEL SHOULDER
±		PLUS OR MINUS; APPROX
⊕		AT
AB		AGGREGATE BASE
AC		ASPHALT CONCRETE
AD		AREA DRAIN
APPROX		APPROXIMATE
ARV		AIR RELEASE VALVE
ASB		AGGREGATE SUBBASE
BC		BEGIN CURVE
BO		BLOW OFF VALVE
BVC		BEGIN VERTICAL CURVE
BVCE		BVC ELEVATION
BVCS		BVC STATION
C&G		CURB AND GUTTER
CATV		CABLE TV
CGSW		CURB, GUTTER AND SIDEWALK
CL		CENTERLINE
CL		CLASS
CLR		CLEAR
CMP		CORRUGATED METAL PIPE
CO		CLEANOUT
CONC		CONCRETE
CONST		CONSTRUCT
CONT		CONTINUOUS
DEMO		DEMOLISH AND DISPOSE OF
DI		DUCTILE IRON
DIA		DIAMETER
DIP		DUCTILE IRON PIPE
(E)		EXISTING
EG		END CURVE
EG		EXISTING GRADE
ELEC		ELECTRIC
ELEV		ELEVATION
EQ.		EQUAL
ETW		EDGE OF TRAVELED WAY
EVC		END VERTICAL CURVE
EVC		EVC ELEVATION
EVC		EVC STATION
E.W.		EACH WAY
EX		EXISTING
F		FUTURE
FC		FACE OF CURB
FG		FINISHED GRADE
FH		FIRE HYDRANT
FL		FLOWLINE
FS		FINISHED SURFACE
GB		GRADE BREAK
GBE		GB ELEVATION
GBS		GB STATION
GRT		GRATE
GV		GAS VALVE/VAULT
HP		HIGH POINT
HORIZ.		HORIZONTAL
INV		INVERT
JP		JOINT UTILITY POLE
LF		LINEAR FEET
LP		LOW POINT
LT		LEFT
MATCH		MATCH EXISTING GRADE
MAX		MAXIMUM
MCWD		MARINA COAST WATER DISTRICT
MH		MANHOLE
MIN		MINIMUM
N.I.C.		NOT IN CONTRACT (BY OTHERS)
ON		ON CENTER
O.C.		ORIGINAL GROUND
PC		POINT OF CURVATURE
P.O.C.		POINT OF CONNECTION
PP		POWER POLE
PRC		POINT OF REVERSE CURVATURE
PRV		PRESSURE REDUCING VALVE
PVC		POLYVINYL CHLORIDE
PVI		POINT OF VERTICAL INTERSECTION
R		RADIUS
R.C.		RELATIVE COMPACTION
RT		RIGHT
SD		STORM DRAIN
STA		STATION
STD		STANDARD
TBM		TEMPORARY BENCH MARK
TC		TOP OF CURB
TFC		TOP OF FLUSH CURB
TG		TOP OF GRATE
TOP		TOP OF PIPE
TYP		TYPICAL
UG		UNDERGROUND
U.O.N.		UNLESS OTHERWISE NOTED
UP		UTILITY POLE
UNKN		UNKNOWN
VAR		VARIABLE
VERT.		VERTICAL
W		WATER
WM		WATER METER
WV		WATER VALVE

**ABBREVIATIONS**



NO.	REVISION DESCRIPTION	DATE	APPR

**MARINA COAST WATER DISTRICT**  
 11 RESERVATION ROAD  
 MARINA, CA 93933  
 (831) 384-6131

APPROVED FOR CONSTRUCTION:  
 GARRETT HAERTEL, P.E., DISTRICT ENGINEER

Civil Engineering  
 Land Surveying

6 Harris Court  
 Monterey, California  
 831.649.5225  
 whitsonengineers.com

**INTER-GARRISON ROAD WATER LINE**

**CIVIL NOTES AND SPECIFICATIONS**

DATE:	01/31/25
SCALE:	N.A.
DESIGN:	ML
DRAWN:	ML
CHECK:	APH

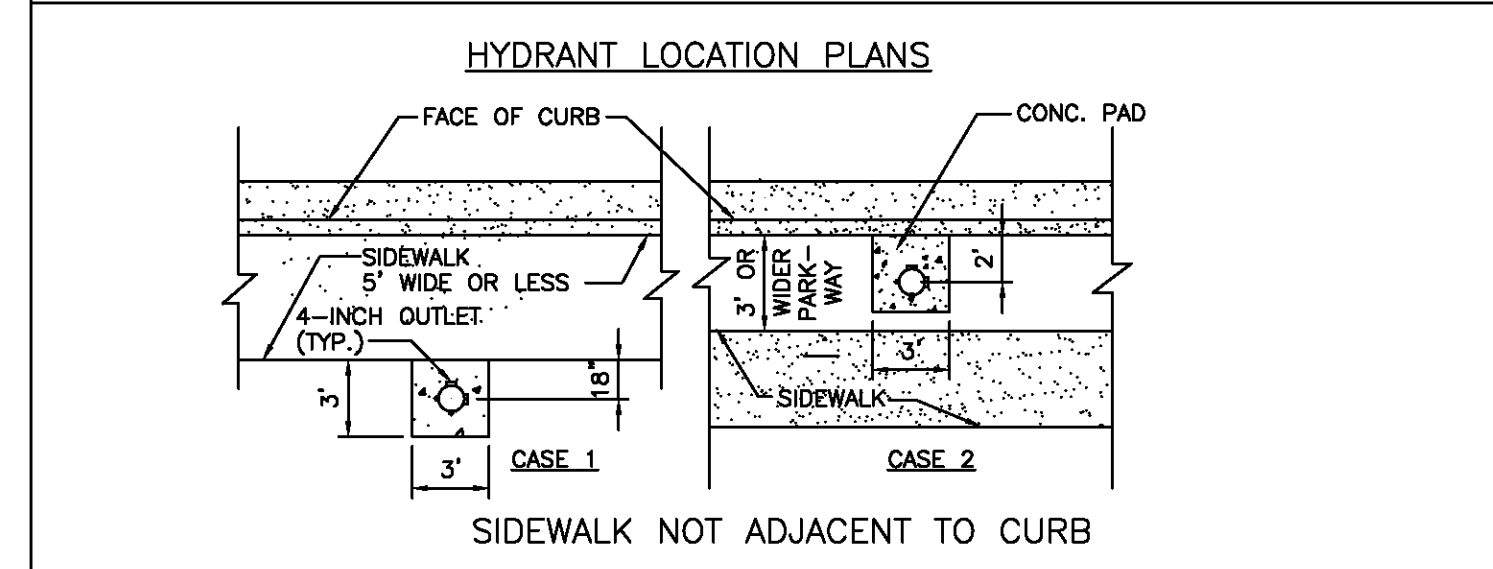
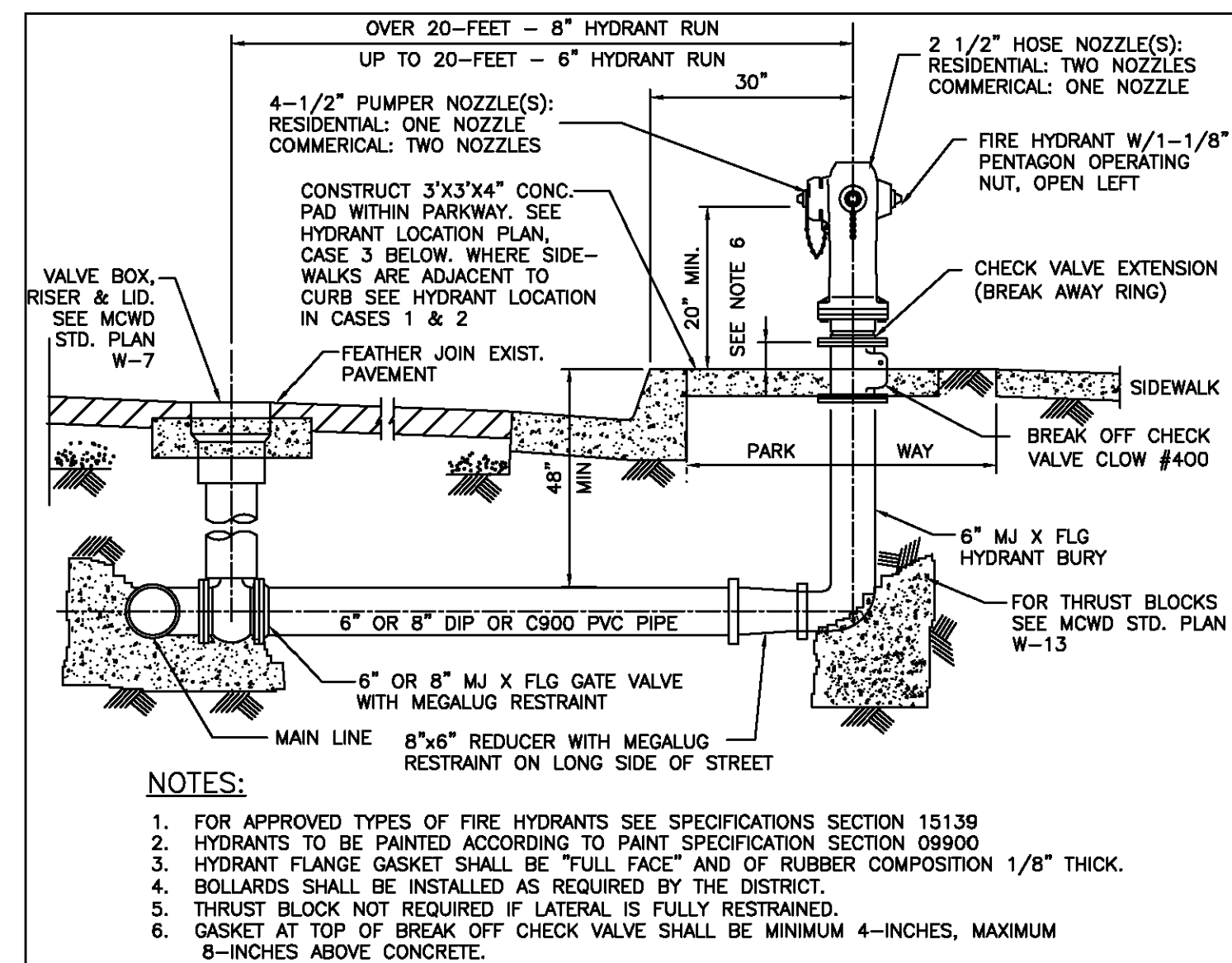
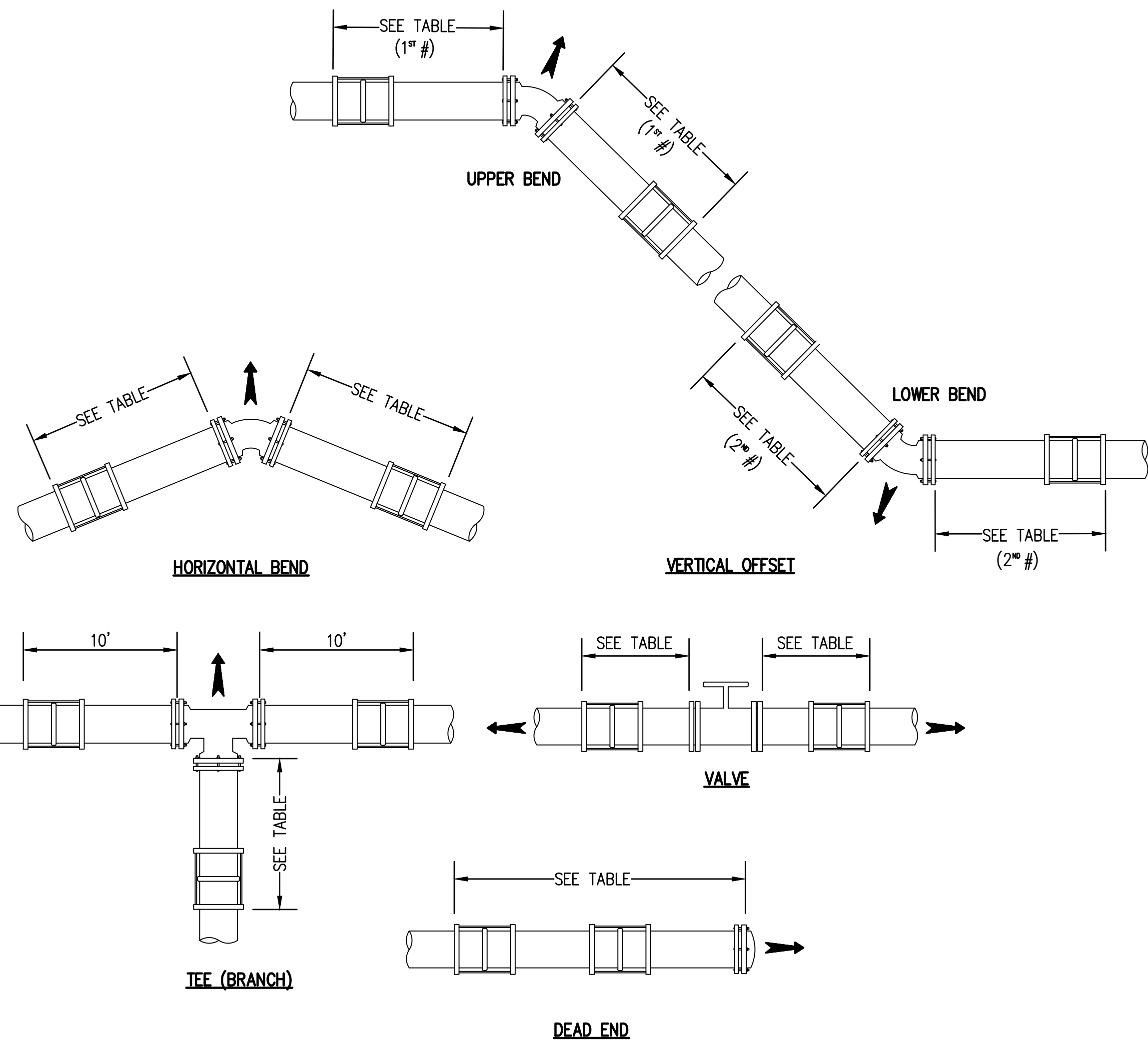
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**2**

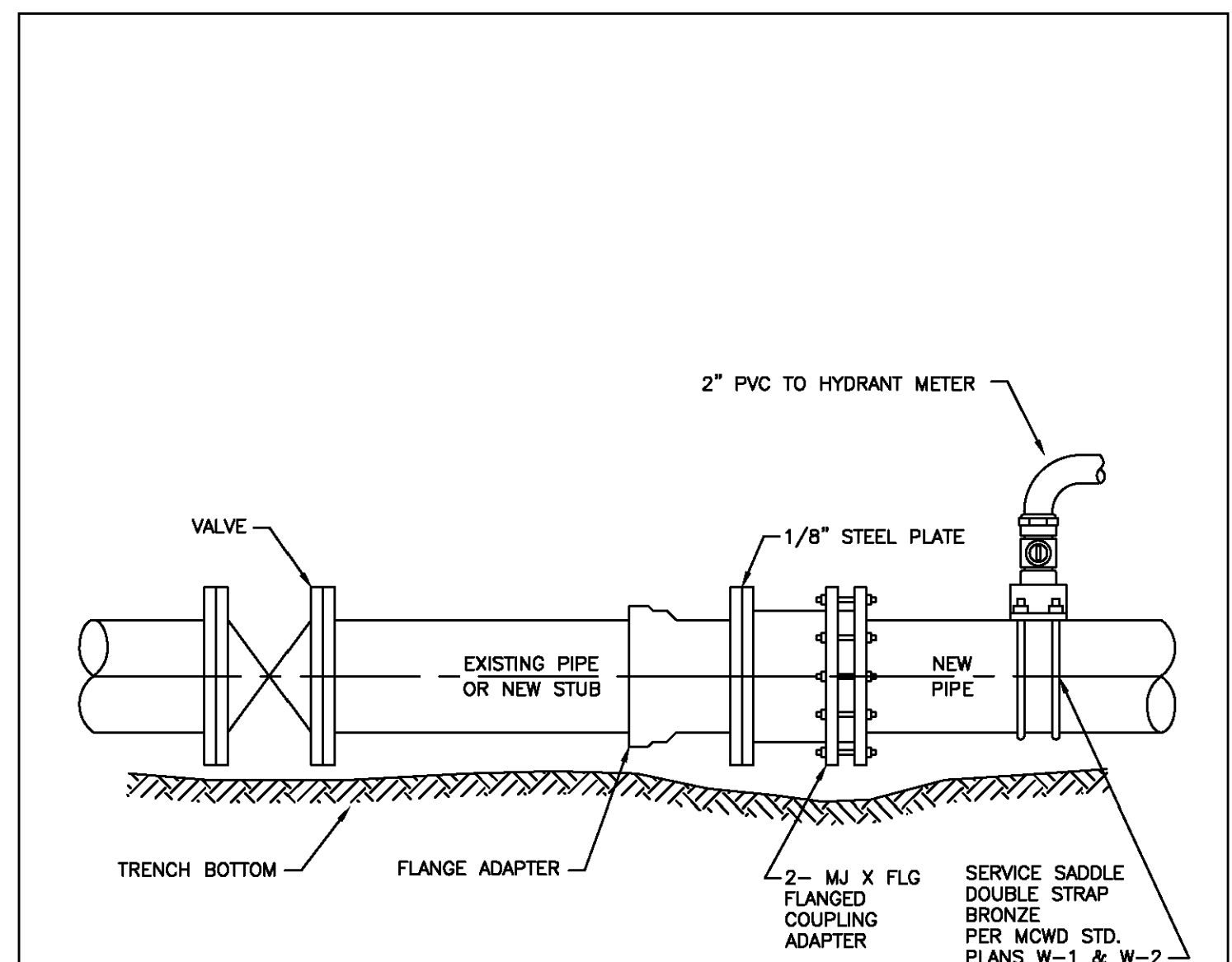
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APPROVED BY DISTRICT ENGINEER		MARINA COAST WATER DISTRICT STANDARD PLAN	STANDARD
DATE	11/20/17	FIRE HYDRANT INSTALLATION	W-5
			SHEET 1 OF 1



- 1- THE CONTRACTOR SHALL NOT OPERATE DISTRICT VALVES. 24 HOURS NOTICE IS REQUIRED FOR OPERATION BY DISTRICT.
- 2- UPON THE ACCEPTANCE OF THE NEW SYSTEM, THE CONTRACTOR SHALL REMOVE THE 2" BYPASS, PLUG THE SADDLES WITH BRASS PLUGS AND REMOVE THE STEEL PLATE.
- 3- THE BYPASS SHALL BE CHECKED BY THE DISTRICT'S INSPECTOR.
- 4- THE DOUBLE CHECK VALVE ASSEMBLY SHALL BE DOHS APPROVED.
- 5- THE SHUTOFF VALVE ON THE DOWN STREAM SIDE ON THE BACK FLOW PREVENTER SHALL BE CLOSED DURING PRESSURE TESTING AND DISINFECTING THE NEW PIPE.
- 6- THE CONTRACTOR SHALL PROVIDE THRUST RESTRAINTS TO PREVENT JOINT SEPARATION.
- 7- SIZE OF BYPASS MAY BE INCREASED SUBJECT TO MCWD APPROVAL.
- 8- DOUBLE CHECK VALVE ASSEMBLY SHALL NOT BE BACKFILLED.

APPROVED BY DISTRICT ENGINEER		MARINA COAST WATER DISTRICT STANDARD PLAN	STANDARD
DATE	11/20/17	TEMPORARY BYPASS CONNECTION TO NEW MAINS	W-9
			SHEET 1 OF 1

TYPE OF PIPE	REQUIRED LENGTH OF RESTRAINED JOINTS (FEET)								
	TEE (BRANCH)	DEAD END/ VALVE	HORIZONTAL RESTRAINING				VERTICAL RESTRAINING		
			BEND 90°	BEND 45°	BEND 22.5°	BEND 11.25°	VERTICAL OFFSET, 11.25°	VERTICAL OFFSET, 22.5°	VERTICAL OFFSET, 45°
12" DUCTILE IRON	51	91	39	16	8	4	9, 3	19, 6	38, 12
18" DUCTILE IRON	88	129	54	23	11	6	13, 4	26, 8	54, 17

### THRUST RESTRAINT DETAILS

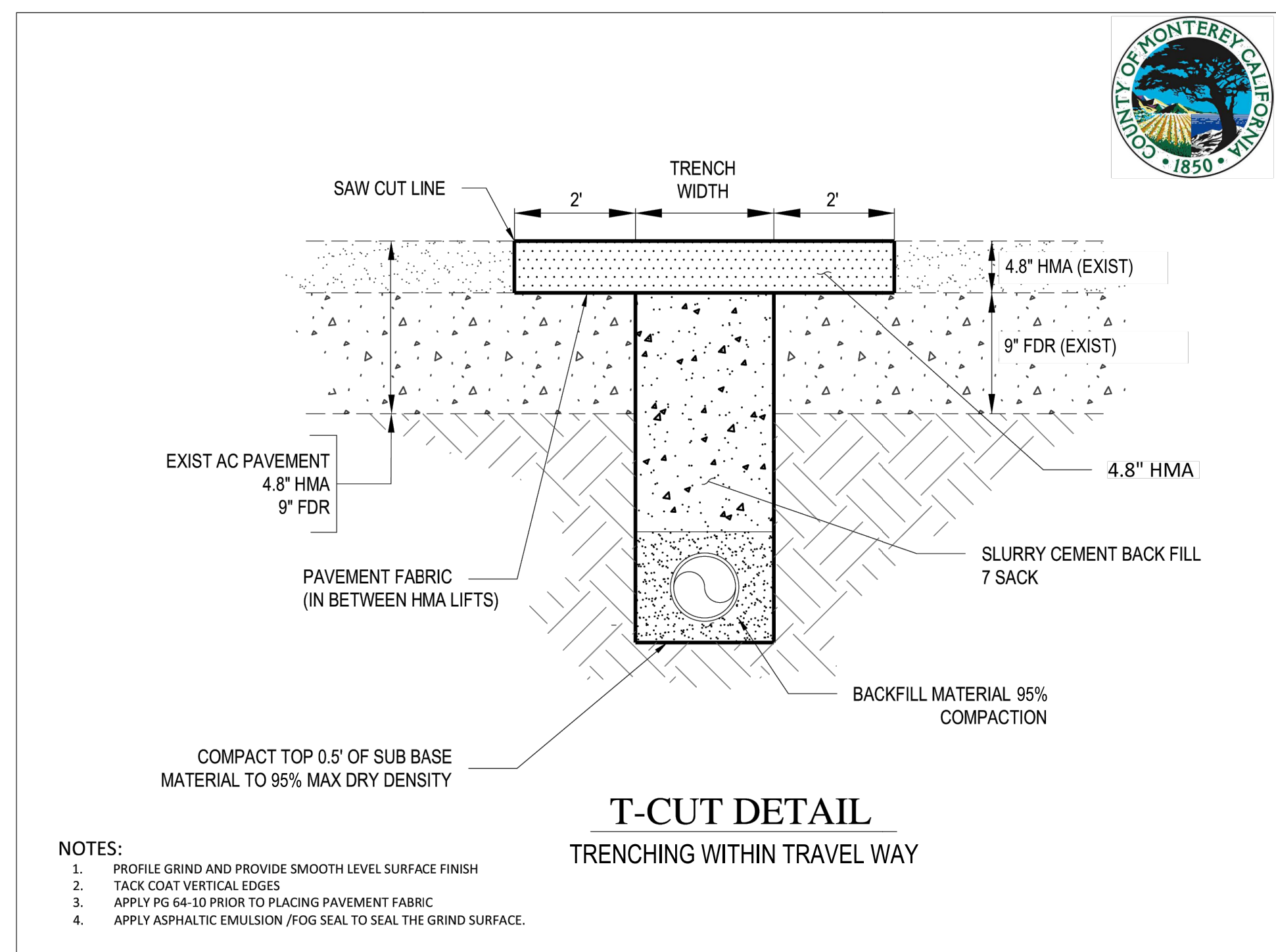
NOT TO SCALE

BASIS OF CALCULATIONS (CONSULT DISTRICT FOR OTHER CONDITIONS)

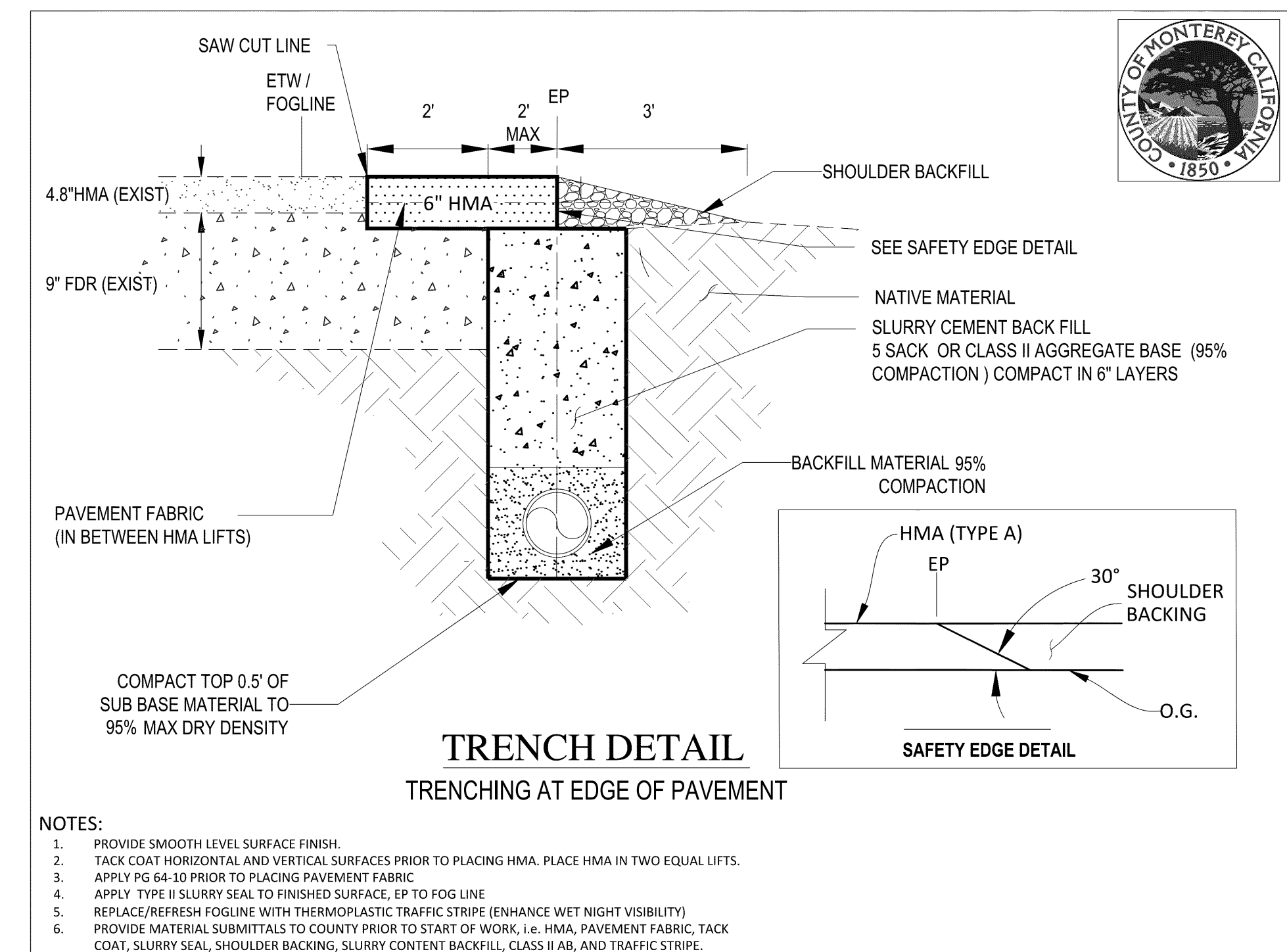
- RESTRAINT LENGTHS IN TABLE ARE TO BE APPLIED IN BOTH DIRECTIONS OF FEATURE.
- RESTRAINT LENGTH CALCULATION CRITERIA:  
SOIL TYPE: SP (SAND)  
SAFETY FACTOR: 1.5  
TRENCH TYPE: TYPE 5  
DEPTH OF BURY: 3.5 FEET TYP, 5 FEET LOW SIDE BEND  
TEST PRESSURE: 250 PSI

NOTES:

1. MCWD PREFERS THAT ALL PIPES BE MECHANICALLY RESTRAINED AT JOINTS PER REQUIREMENTS INCLUDED WITH TABLE TO LEFT. THRUST BLOCKS TO BE ALLOWED ON A CASE-BY-CASE BASIS PER MCWD APPROVAL.
2. CONTRACTOR SHALL OBTAIN MCWD APPROVAL FOR RESTRAINED JOINT FITTINGS AND LENGTHS NOT LISTED IN THIS TABLE, OR FOR MODIFICATIONS TO CALCULATION CRITERIA.
3. FOR VERTICAL OFFSETS, THE FIRST NUMBER LISTED IS THE RESTRAINING LENGTH AT THE UPPER BEND, AND THE SECOND NUMBER IS THE RESTRAINING LENGTH AT THE LOWER BEND.
4. LENGTH OF RESTRAINED JOINTS ALONG A BRANCH OF A TEE IS BASED ON A UNIFORM TEE FITTING SIZE. CONTRACTOR SHALL OBTAIN MCWD APPROVAL FOR LENGTH OF RESTRAINED JOINTS AT REDUCING TEES.



- NOTES:
1. PROFILE GRIND AND PROVIDE SMOOTH LEVEL SURFACE FINISH
  2. TACK COAT VERTICAL EDGES
  3. APPLY PG 64-10 PRIOR TO PLACING PAVEMENT FABRIC
  4. APPLY ASPHALTIC EMULSION /FOG SEAL TO SEAL THE GRIND SURFACE.



- NOTES:
1. PROVIDE SMOOTH LEVEL SURFACE FINISH
  2. TACK COAT HORIZONTAL AND VERTICAL SURFACES PRIOR TO PLACING HMA. PLACE HMA IN TWO EQUAL LIFTS.
  3. APPLY PG 64-10 PRIOR TO PLACING PAVEMENT FABRIC
  4. APPLY TYPE II SLURRY SEAL TO FINISHED SURFACE, EP TO FOG LINE
  5. REPLACE/REFRESH FOGLINE WITH THERMOPLASTIC TRAFFIC STRIPE (ENHANCE WET NIGHT VISIBILITY)
  6. PROVIDE MATERIAL SUBMITTALS TO COUNTY PRIOR TO START OF WORK, I.e. HMA, PAVEMENT FABRIC, TACK COAT, SLURRY SEAL, SHOULDER BACKING, SLURRY CONTENT BACKFILL, CLASS II AB, AND TRAFFIC STRIPE.

NO.	REVISION DESCRIPTION	DATE	APPR

**MARINA COAST WATER DISTRICT**  
11 RESERVATION ROAD  
MARINA, CA 93933  
(831) 384-6131

APPROVED FOR CONSTRUCTION:  
 GARRETT HAERTEL, P.E., DISTRICT ENGINEER

**Whitson ENGINEERS**

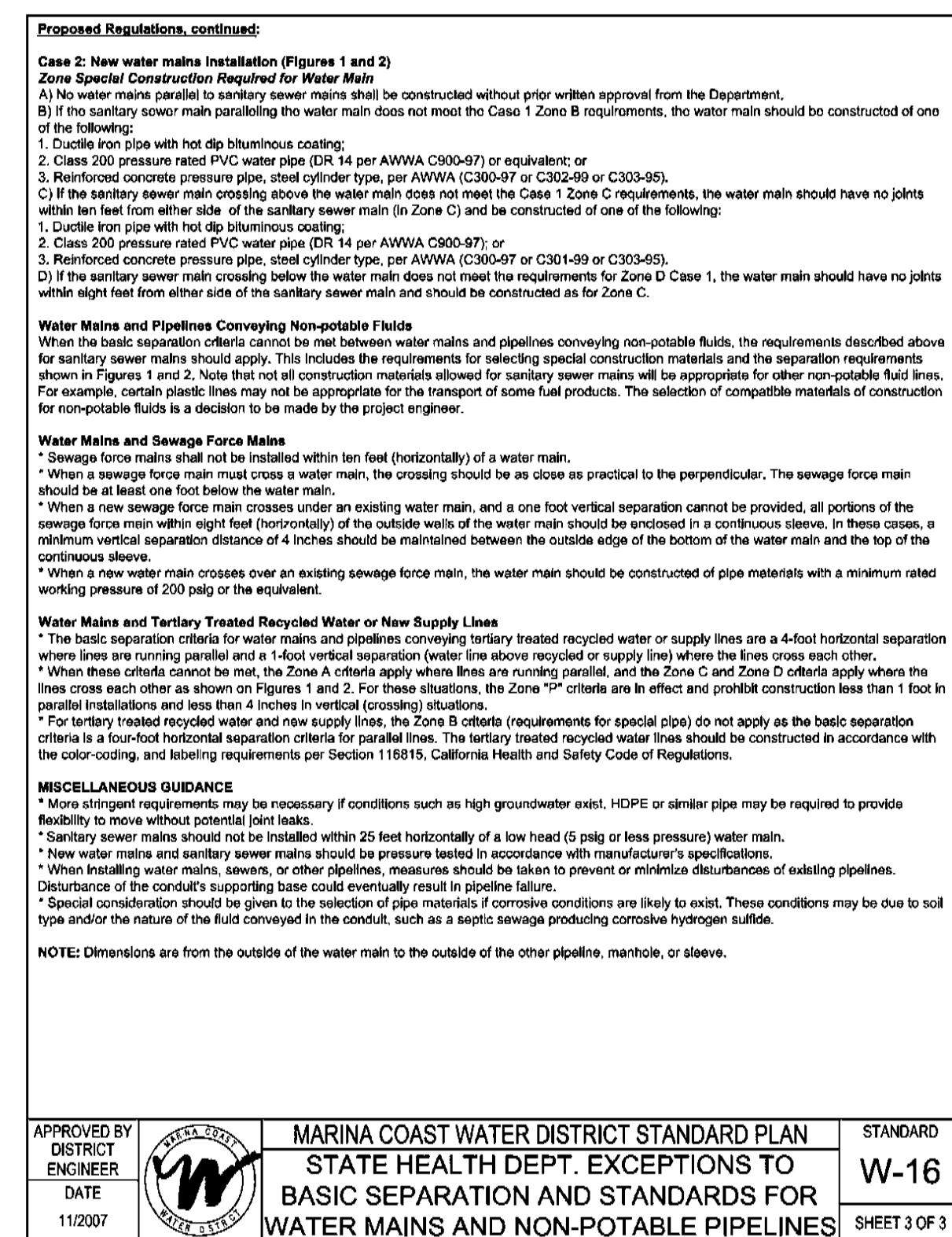
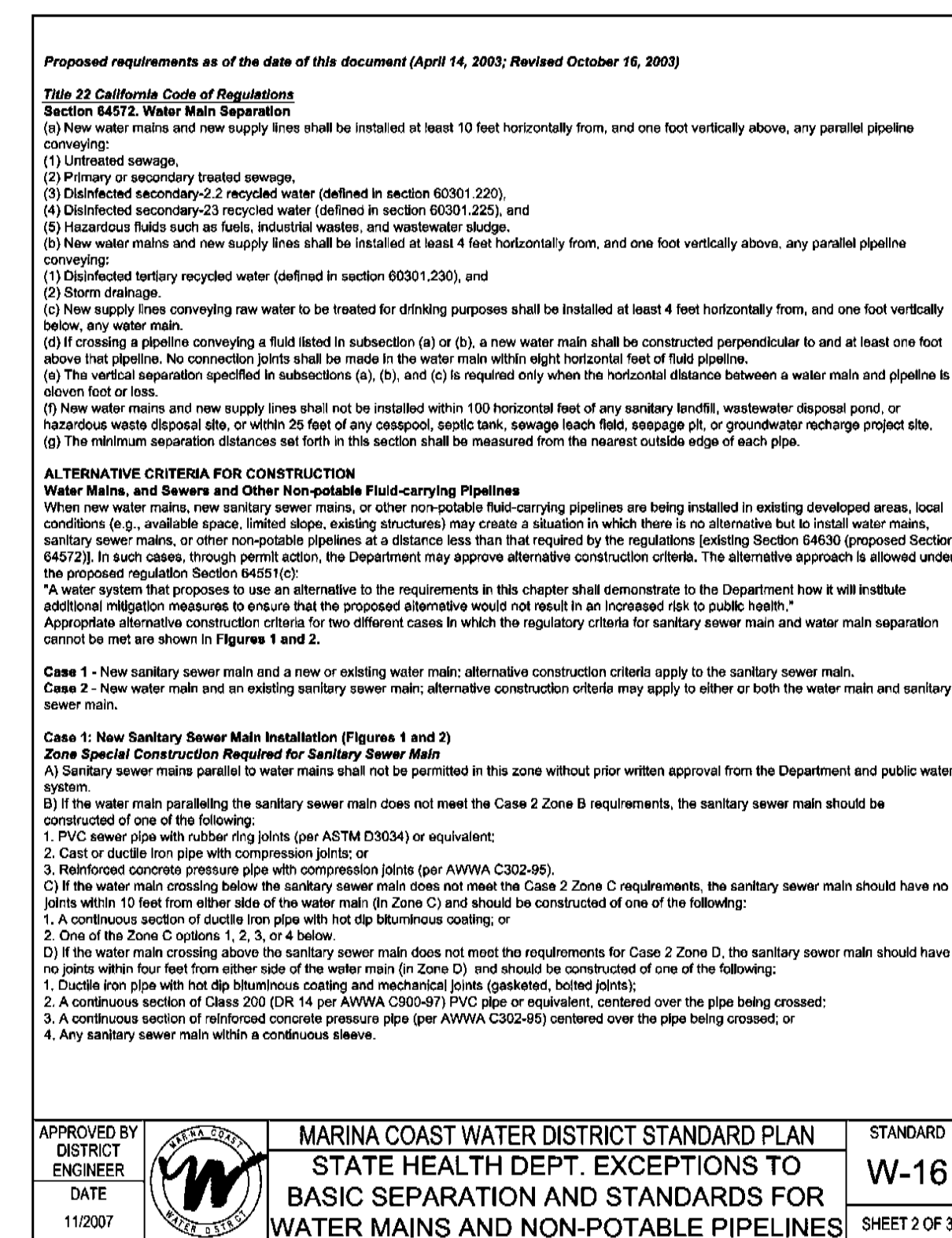
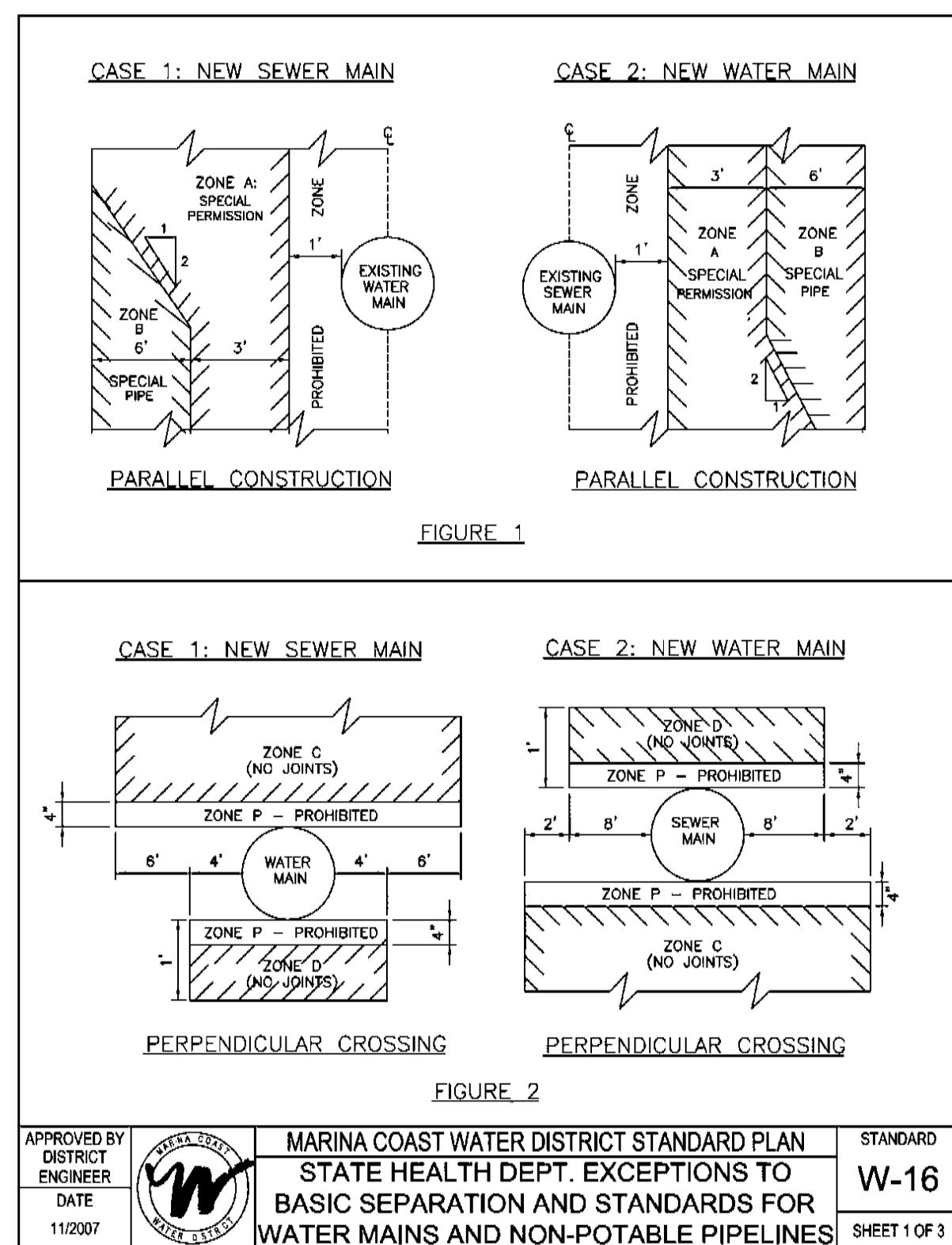
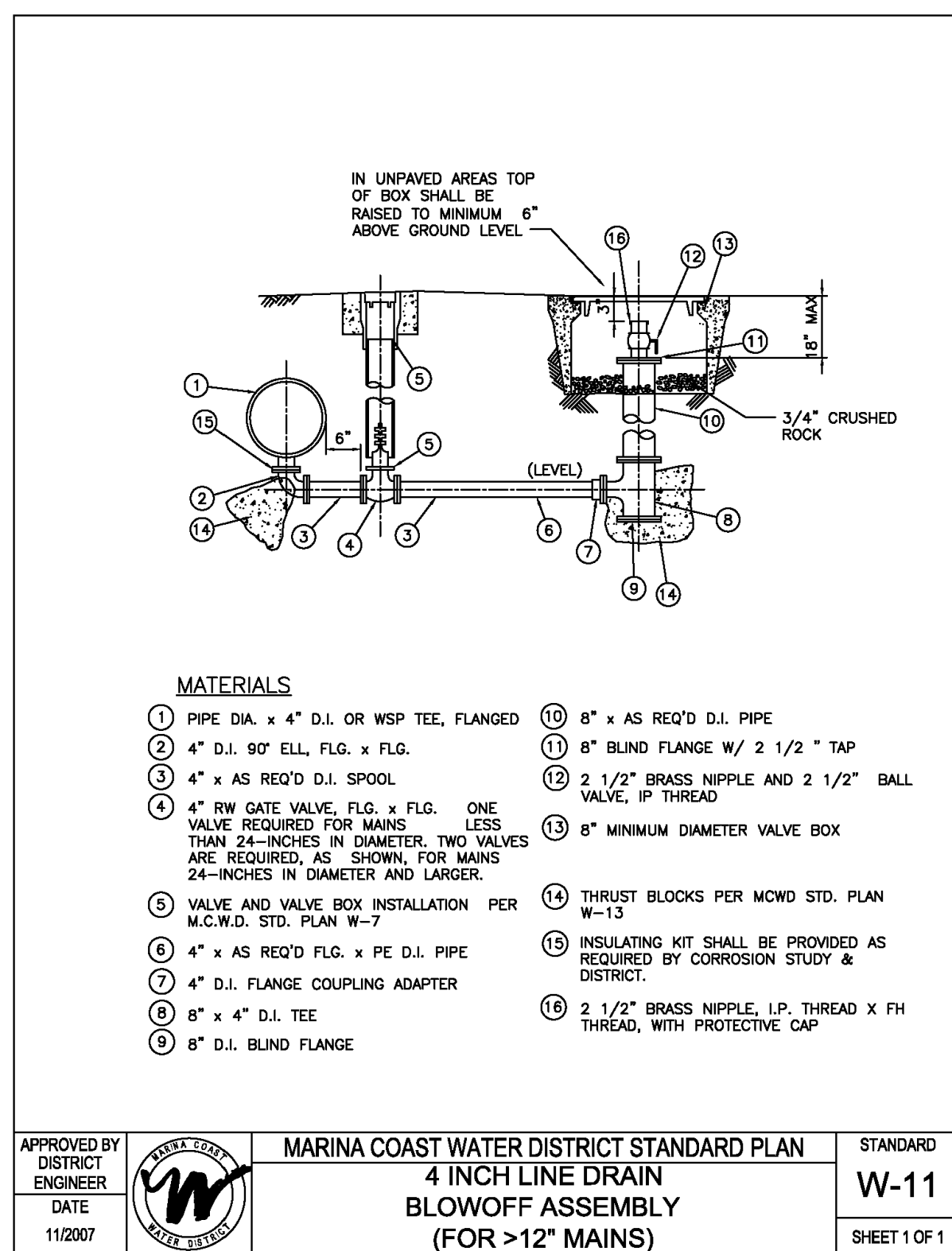
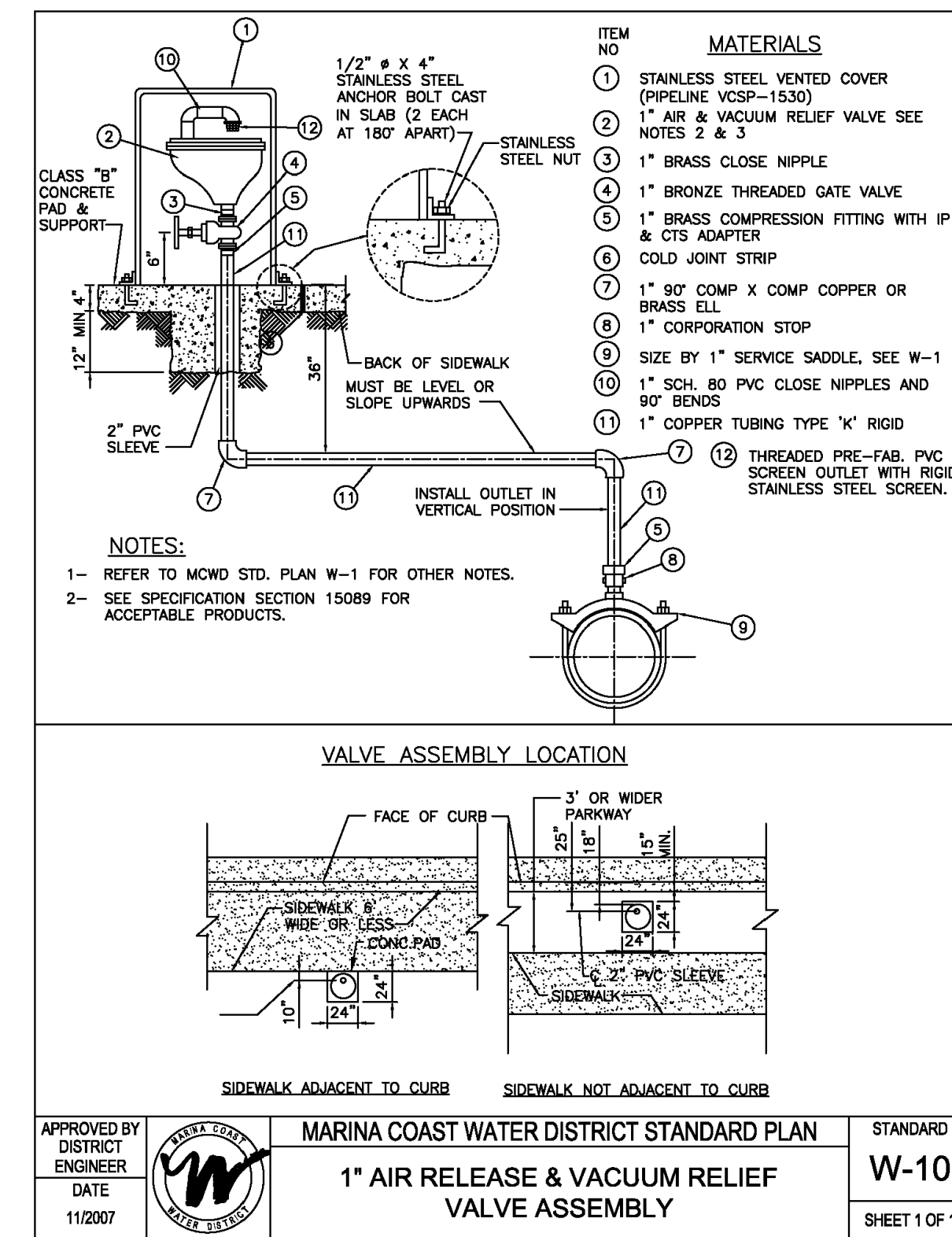
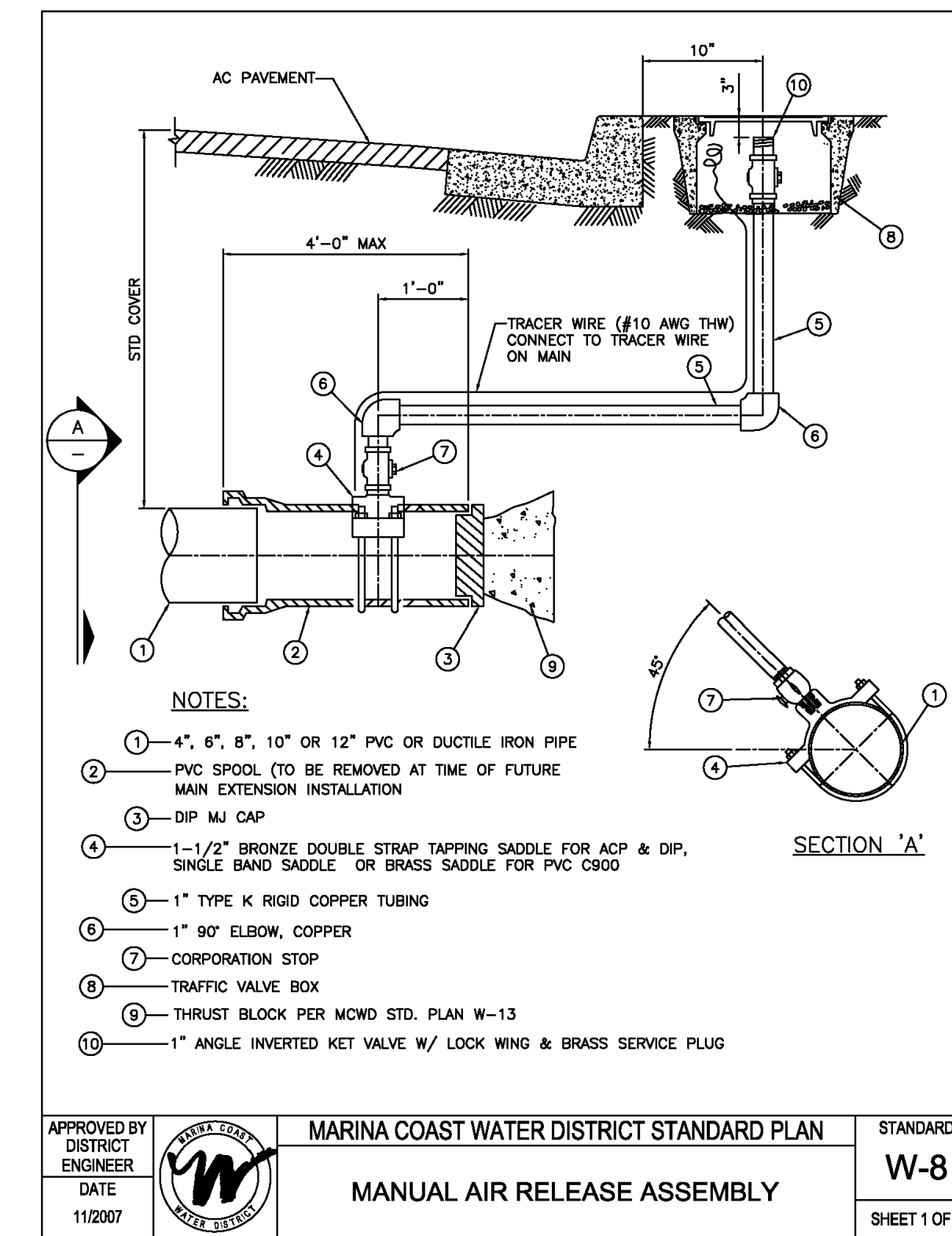
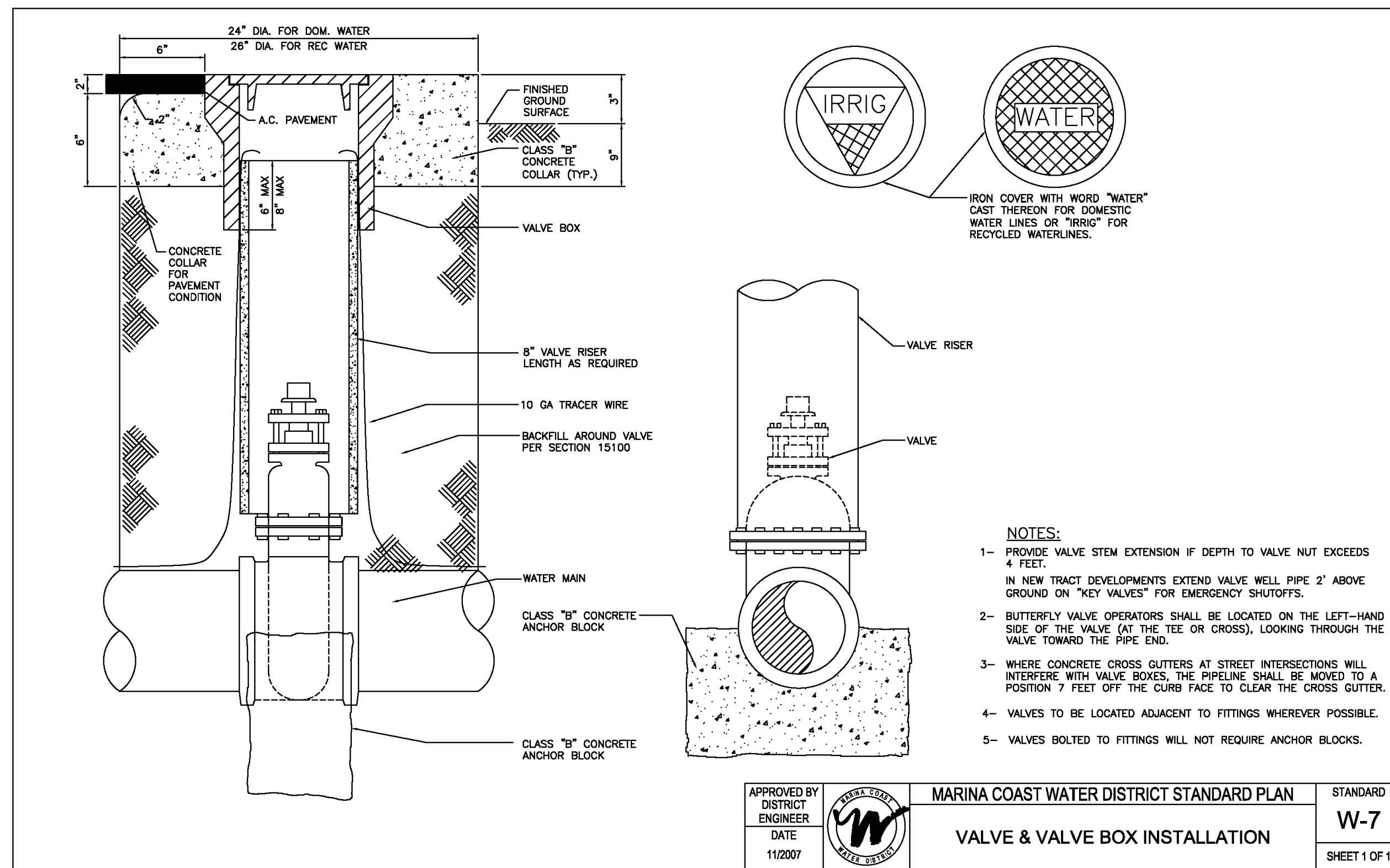
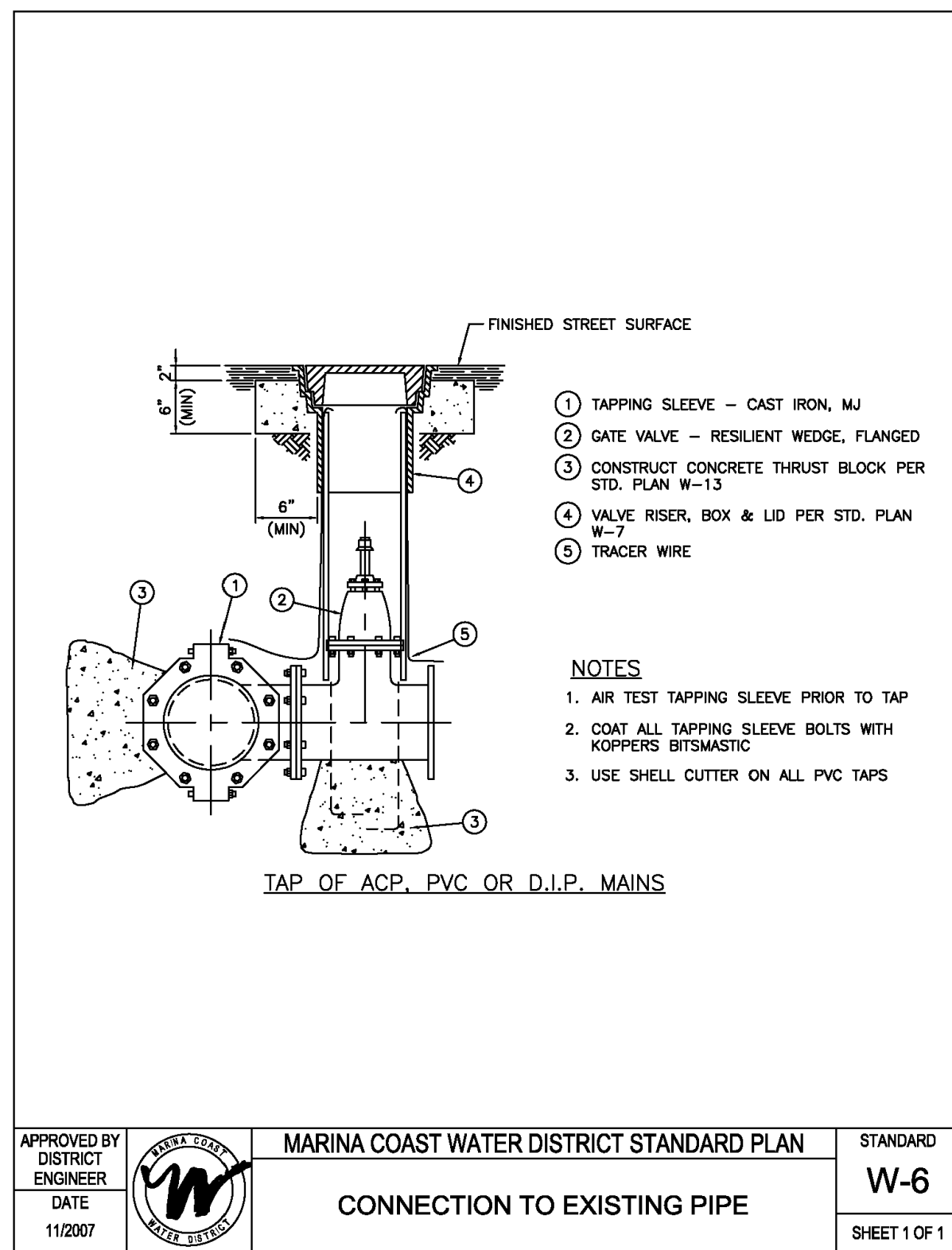
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Monterey, California  
831.649.5225  
whitsonengineers.com

REGISTERED PROFESSIONAL ENGINEER  
ANDREW P. HUNTER  
No. 67730  
CIVIL  
STATE OF CALIFORNIA

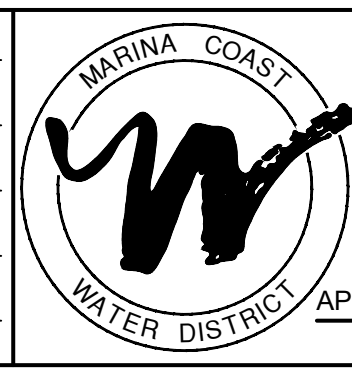
**INTER-GARRISON ROAD WATER LINE**  
**THRUST RESTRAINT AND MCWD DETAILS**

DATE: 01/31/25  
SCALE: N.A.  
DESIGN: ML  
DRAWN: ML  
CHECK: APH

**SHEET 3 OF 7**



NO.	REVISION DESCRIPTION	DATE	APPR

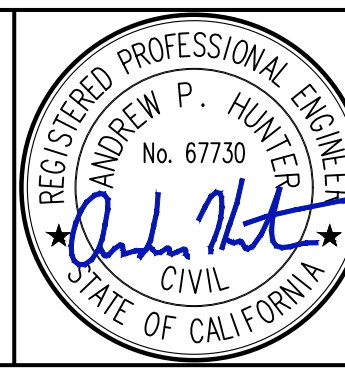


**MARINA COAST WATER DISTRICT**  
 11 RESERVATION ROAD  
 MARINA, CA 93933  
 (831) 384-6131

APPROVED FOR CONSTRUCTION:  
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**INTER-GARRISON ROAD WATER LINE**  
**MCWD STANDARD DETAILS**

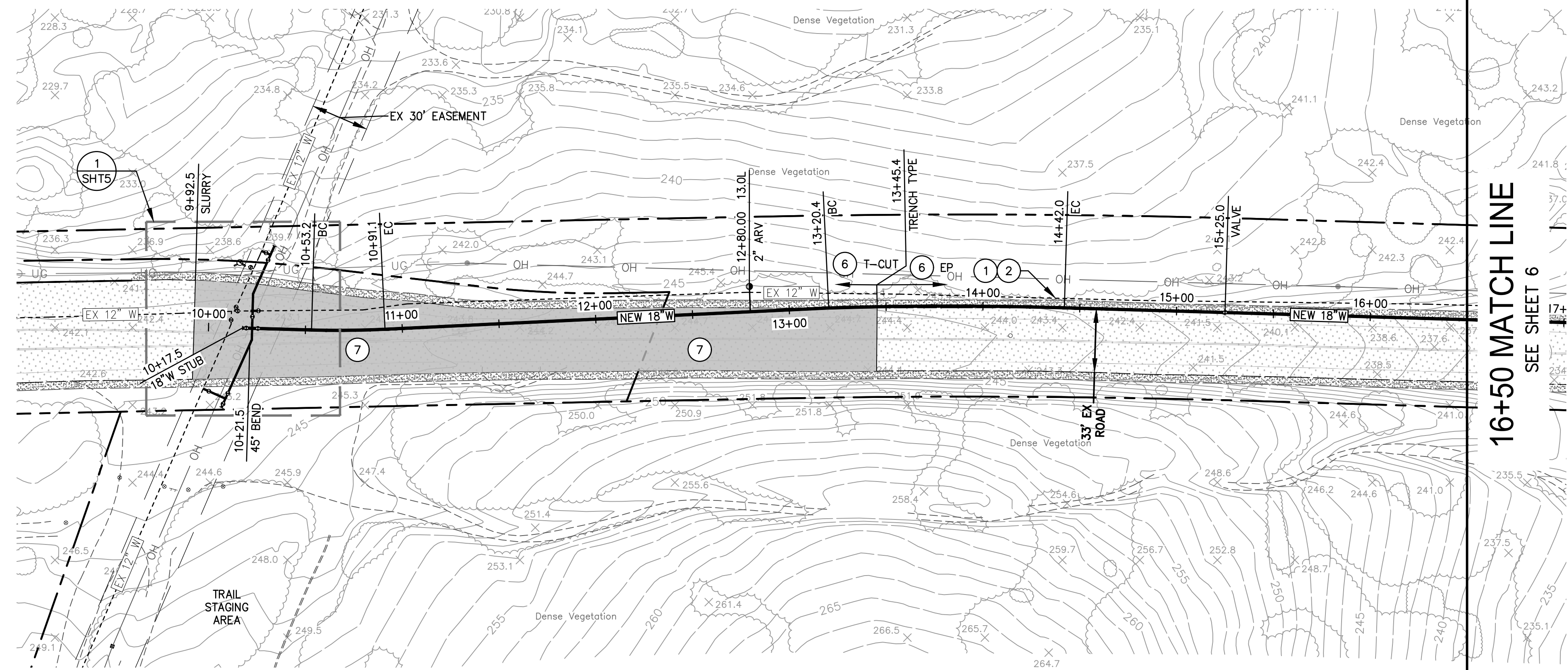
DATE:	01/31/25	<b>SHEET 4 OF 7</b>
SCALE:	N.A.	
DESIGN:	ML	
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CHECK:	APH	

**KEYNOTES**

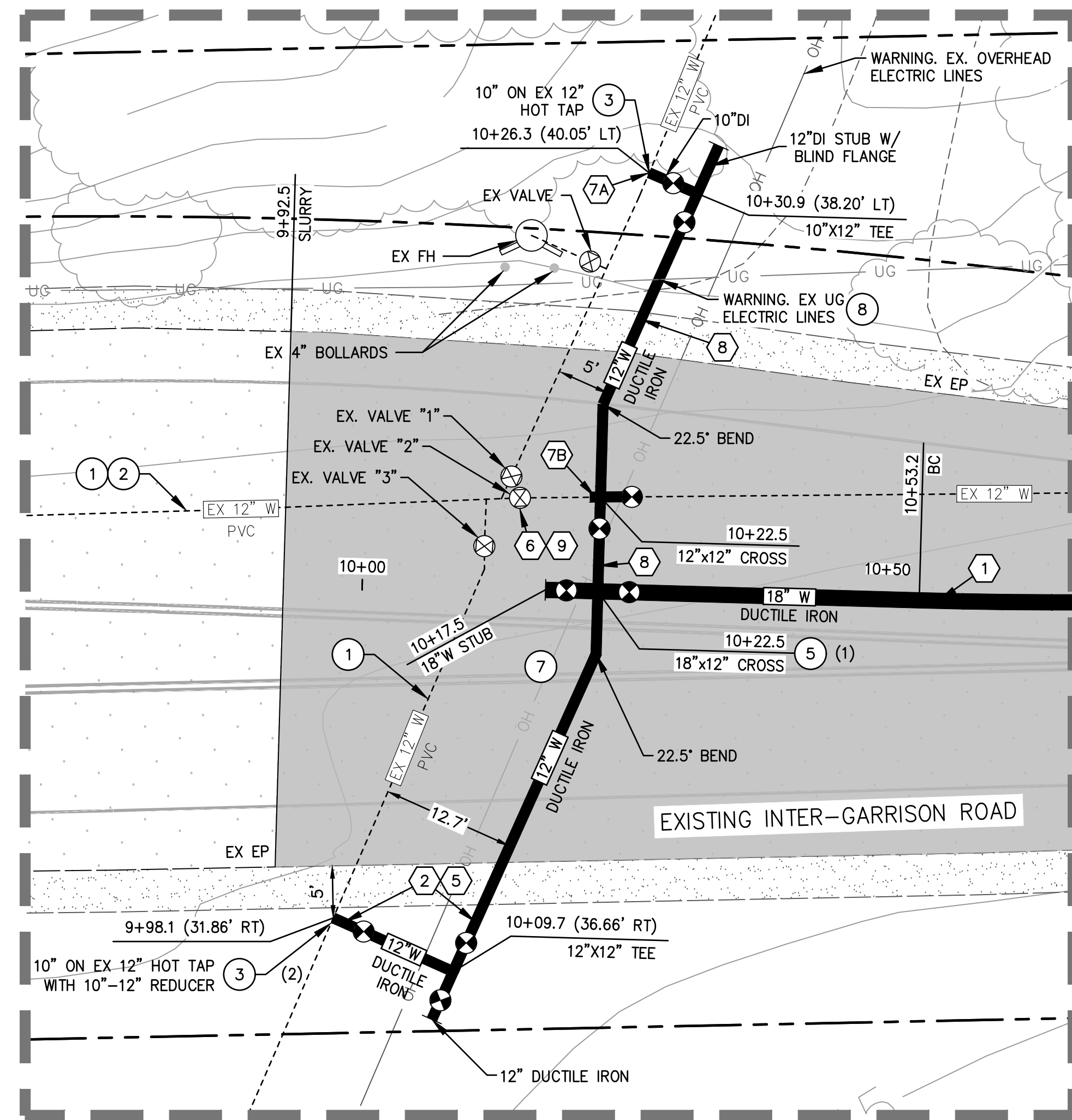
- 1 EXISTING WATER MAIN TO REMAIN IN SERVICE. PROTECT IN PLACE.
- 2 COORDINATE THE OPERATION OF ALL EXISTING VALVES WITH MCWD STAFF.
- 3 CONNECT TO EXISTING 12" WATER LINE WITH HOT TAP PER MCWD SPECIFICATIONS. CONTRACTOR TO POTHOLE TO DETERMINE PIPE MATERIAL, EXACT LOCATION, AND DEPTH OF EXISTING WATER MAIN PRIOR TO CONSTRUCTION OR ORDERING MATERIALS. CONNECTIONS AND REMOVAL OF EXISTING PIPE TO BE COORDINATED WITH MCWD.
- 4 CONNECT TO EXISTING 18" WATER STUB PER MCWD SPECIFICATIONS. CONTRACTOR TO POTHOLE TO DETERMINE EXACT LOCATION AND DEPTH OF EXISTING WATER MAIN PRIOR TO CONSTRUCTION.
- 5 18"x12" CROSS FITTING AND 3 VALVES.
- 6 UTILITY TRENCHING PER COUNTY DETAILS ON SHEET 3. SEE KEYNOTE DELINEATIONS ON PLAN-VIEW FOR T-CUT VS EDGE OF PAVEMENT TRENCHING TYPE.
- 7 TYPE II SLURRY SEAL FROM EP TO EP AS SHOWN. CARE SHALL BE TAKEN NEAR EXISTING VALVES TO PREVENT CONCEALING VALVE COVERS.
- 8 DEFLECT PROPOSED WATER PIPE UNDER EXISTING UNDERGROUND POWER AS NECESSARY. CONTRACTOR TO POTHOLE TO DETERMINE LOCATION AND DEPTH OF EXISTING UNDERGROUND POWER PRIOR TO CONSTRUCTION OR ORDERING MATERIALS.

**GENERAL WATER SHUT-OFF PHASING NOTES**

- 0 SUBMIT DISINFECTION, TESTING, AND TIE-IN PLAN FOR APPROVAL BY MCWD. COORDINATE WITH MCWD TO NOTIFY THE EAST GARRISON COMMUNITY OF CONSTRUCTION DATES AND IF THERE ARE TO BE SERVICE INTERRUPTIONS.
- 1 CONSTRUCT 18" DUCTILE IRON WATER MAIN, FROM CROSS AT STATION 10+22.5 TO ELBOW AT STATION 27+81.7. INSTALL TEMPORARY BLIND FLANGE TO NORTH AT CROSS. DO NOT CONNECT TO EXISTING 18" STUB AT STATION 27+95.
- 2 HOT TAP CONNECTION TO EXISTING 12" MAIN AND INSTALL A TEMPORARY BACKFLOW PREVENTION DEVICE. CONSTRUCT SOUTHERN PORTION OF 12" DUCTILE IRON MAIN TO CROSS AT STATION 10+22.5.
- 3 FILL THE NEW 18" WATER MAIN THROUGH TEMPORARY BACKFLOW PREVENTION DEVICE. COMPLETE DISINFECTION AND TESTING PER APPROVED PLAN WITH MCWD.
- 4 DISCHARGE FLUSHING WATER AT TEMPORARY TERMINUS AT STATION 27+81.7. DIRECT FLOW TO EXISTING DEPRESSION NORTH OF INTER-GARRISON ROAD. CONTRACTOR TO ACQUIRE APPLICABLE DISCHARGE PERMIT FROM MONTEREY COUNTY AS NECESSARY AND INSTALL MEASURES TO CONTROL EROSION.
- 5 REMOVE TEMPORARY BACKFLOW PREVENTION DEVICE. COMPLETE FINAL 18" MAIN CONNECTION TO THE EXISTING 18" PIPE STUB AT STATION 27+95.
- 6 NEW 18" WATER MAIN IS NOW LIVE AND IN-SERVICE TO THE EAST GARRISON COMMUNITY. CLOSE EXISTING 12" WATER MAIN VALVE "2" AT WEST TIE-IN (SHEET 5) AND VALVE "A" AT EAST TIE-IN (SHEET 7).
- 7 HOT TAP INTO EXISTING 12" MAIN AT STATION 10+26.3. CUT IN NEW 12"x12" CROSS ON EXISTING 12" MAIN AT STATION 10+22.5.
- 8 CONSTRUCT NORTHERN PORTION OF 12" MAIN. CONNECT HOT TAP LOCATION TO NEW 12"x12" CROSS AND BLIND FLANGE AT 12"x18" CROSS. COMPLETE NECESSARY DISINFECTION AND TESTING OF THIS NORTHERN PIPE SECTION PER MCWD SPECIFICATIONS.
- 9 OPEN EXISTING 12" WATER MAIN VALVE "2" AT WEST TIE-IN (SHEET 5) AND VALVE "A" AT EAST TIE-IN (SHEET 7) AND VALVES ON NORTHERN SECTION OF NEW 12" MAIN.

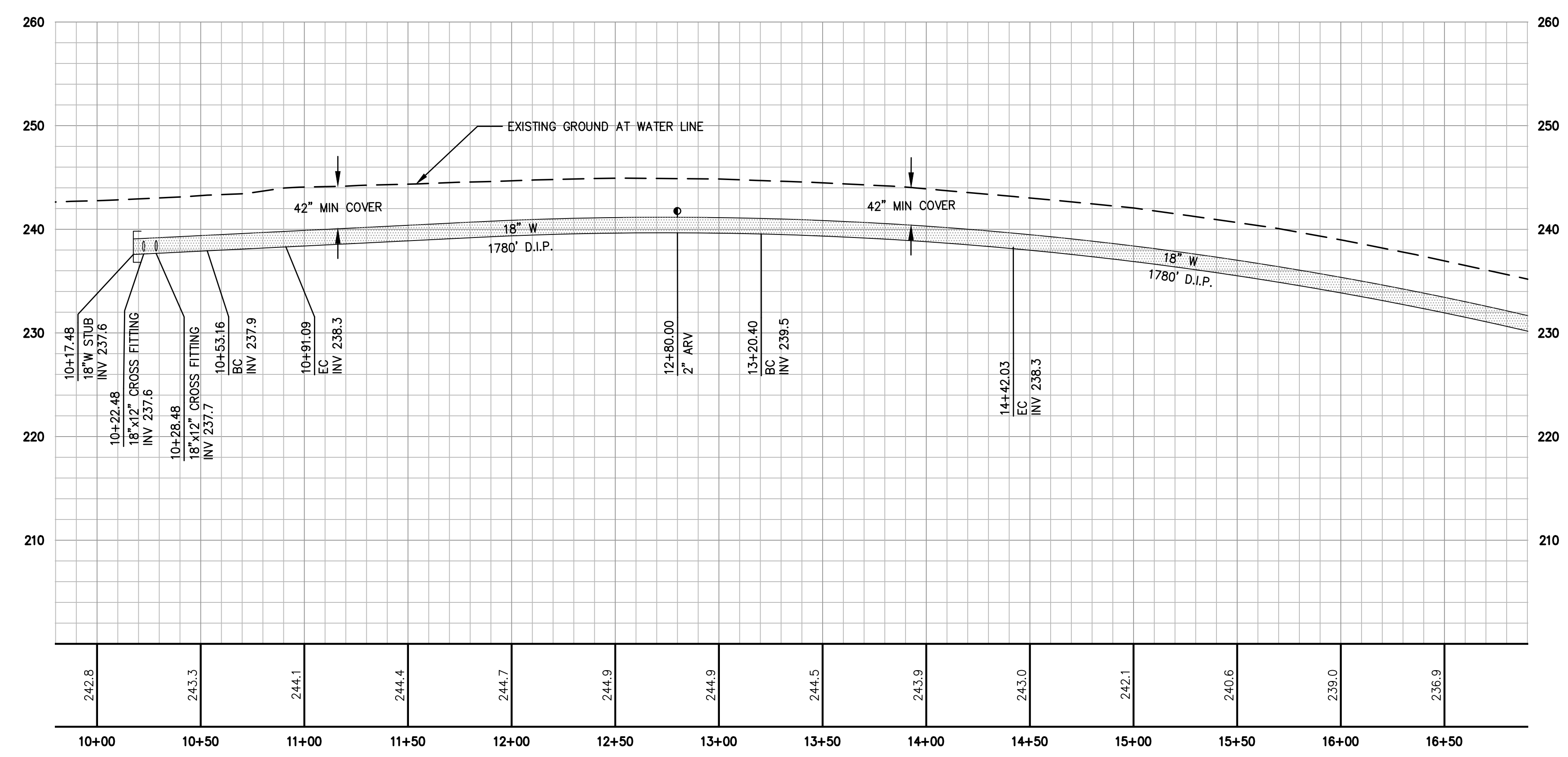


16+50 MATCH LINE  
SEE SHEET 6



**INTER-GARRISON ROAD**

SCALE: HORIZONTAL 1"=40'  
VERTICAL 1"=8'



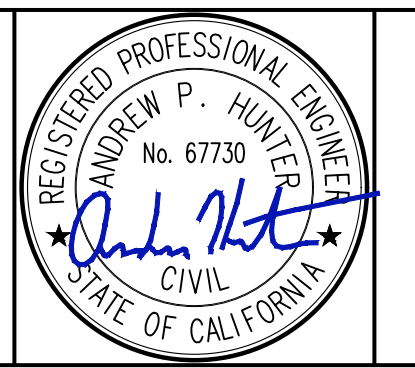
1 CONNECTION TO EXISTING 12" WATER LINE  
SCALE: 1" = 10'

NOTE: RESTRAIN ALL PIPE JOINTS PER DETAIL ON SHEET 3 USING FIELD LOK 350 GASKETS.  
RESTRAIN ALL FITTINGS USING EBAA MEGALUG SERIES 1100.

MARINA COAST WATER DISTRICT		11 RESERVATION ROAD MARINA, CA 93933 (831) 384-6131	
APPROVED FOR CONSTRUCTION:		GARRETT HAERTEL, P.E., DISTRICT ENGINEER	
NO.	REVISION DESCRIPTION	DATE	APPR

**Whitson ENGINEERS**

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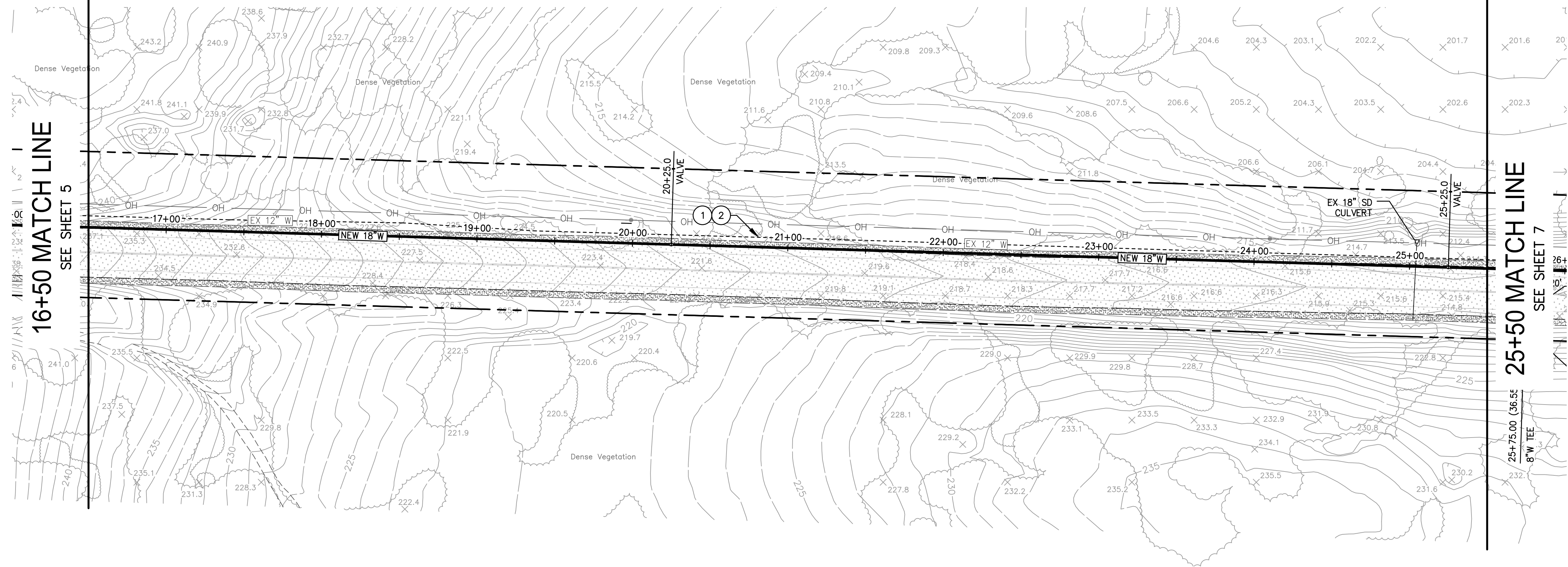
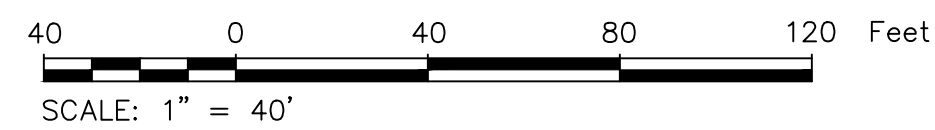


**INTER-GARRISON ROAD WATER LINE  
PLAN AND PROFILE STA.  
9+50 - 16+50**

DATE:	01/31/25	<b>SHEET 5 OF 7</b>
SCALE:	1"=40'	
DESIGN:	ML	
DRAWN:	ML	
CHECK:	APH	

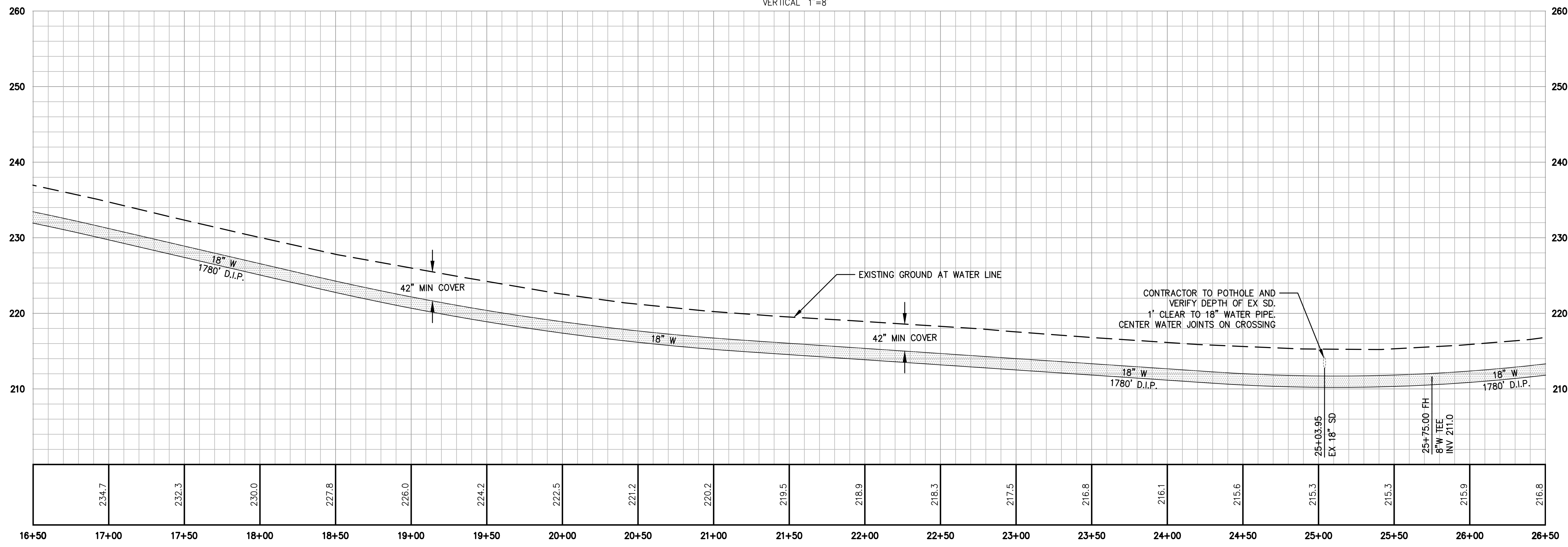
**KEYNOTES**

- ① EXISTING WATER MAIN TO REMAIN IN SERVICE. PROTECT IN PLACE.
- ② COORDINATE THE OPERATION OF ALL EXISTING VALVES WITH MCWD STAFF.
- ③ CONNECT TO EXISTING 12" WATER LINE WITH HOT TAP PER MCWD SPECIFICATIONS. CONTRACTOR TO POTHOLE TO DETERMINE PIPE MATERIAL, EXACT LOCATION, AND DEPTH OF EXISTING WATER MAIN PRIOR TO CONSTRUCTION OR ORDERING MATERIALS. CONNECTIONS AND REMOVAL OF EXISTING PIPE TO BE COORDINATED WITH MCWD.
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- ⑤ 18"x12" CROSS FITTING AND 3 VALVES.
- ⑥ UTILITY TRENCHING PER COUNTY DETAILS ON SHEET 3. SEE KEYNOTE DELINEATIONS ON PLAN-VIEW FOR T-CUT VS EDGE OF PAVEMENT TRENCHING TYPE.
- ⑦ TYPE II SLURRY SEAL FROM EP TO EP AS SHOWN. CARE SHALL BE TAKEN NEAR EXISTING VALVES TO PREVENT CONCEALING VALVE COVERS.
- ⑧ DEFLECT PROPOSED WATER PIPE UNDER EXISTING UNDERGROUND POWER AS NECESSARY. CONTRACTOR TO POTHOLE TO DETERMINE LOCATION AND DEPTH OF EXISTING UNDERGROUND POWER PRIOR TO CONSTRUCTION OR ORDERING MATERIALS.



**INTER-GARRISON ROAD**

SCALE: HORIZONTAL 1"=40'  
VERTICAL 1"=8'



NOTE: RESTRAIN ALL PIPE JOINTS PER DETAIL ON SHEET 3 USING FIELD LOK 350 GASKETS.  
RESTRAIN ALL FITTINGS USING EBAA MEGALUG SERIES 1100.

NO.	REVISION DESCRIPTION	DATE	APPR

**MARINA COAST WATER DISTRICT**  
11 RESERVATION ROAD  
MARINA, CA 93933  
(831) 384-6131

APPROVED FOR CONSTRUCTION:  
**GARRETT HAERTEL, P.E., DISTRICT ENGINEER**

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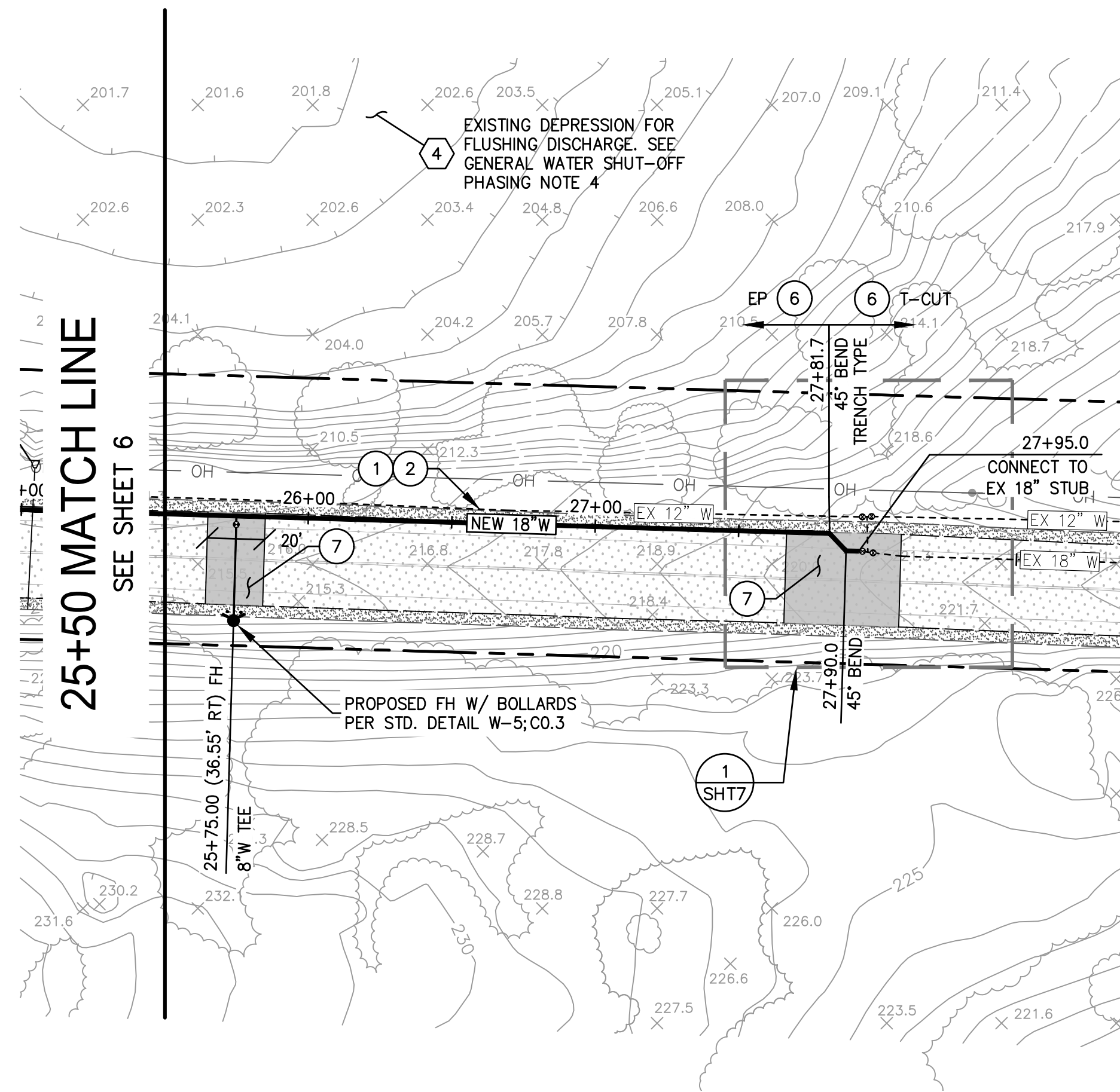
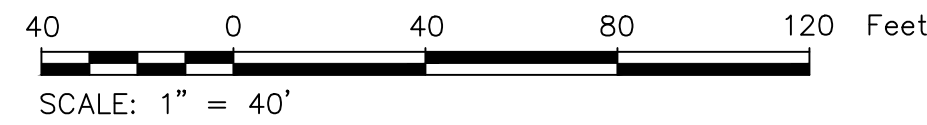
**INTER-GARRISON ROAD WATER LINE**  
**PLAN AND PROFILE STA.**  
**16+50 - 25+50**

DATE: 01/31/25  
SCALE: 1"=40'  
DESIGN: ML  
DRAWN: ML  
CHECK: APH

**SHEET 6 OF 7**

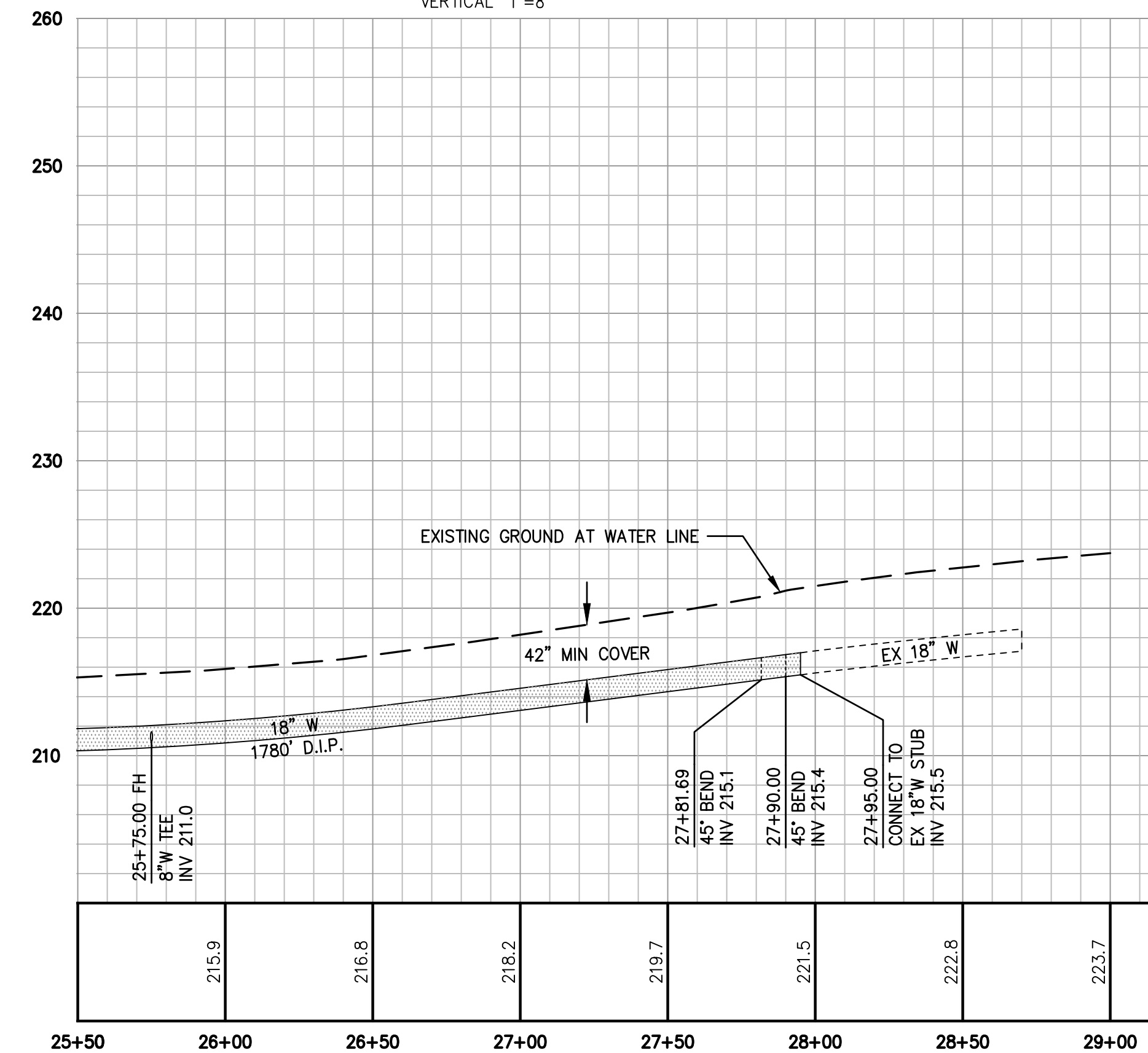
**KEYNOTES**

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**INTER-GARRISON ROAD**

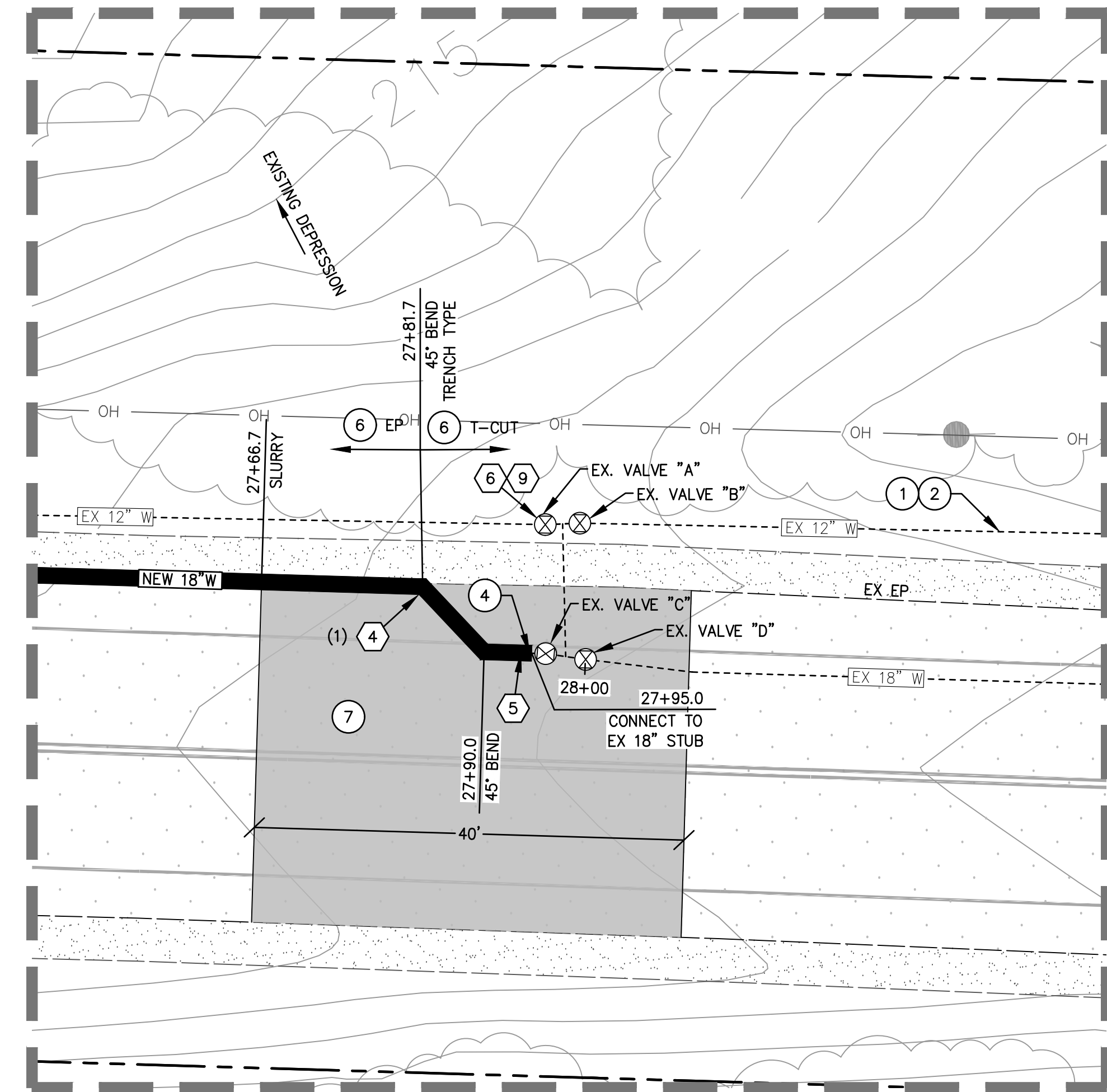
SCALE: HORIZONTAL 1"=40'  
VERTICAL 1"=8'



**GENERAL WATER SHUT-OFF PHASING NOTES**

- 0 SUBMIT DISINFECTION, TESTING, AND TIE-IN PLAN FOR APPROVAL BY MCWD. COORDINATE WITH MCWD TO NOTIFY THE EAST GARRISON COMMUNITY OF CONSTRUCTION DATES AND IF THERE ARE TO BE SERVICE INTERRUPTIONS.
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SEE SHEET 5 FOR SEQUENCING NOTES 7-9

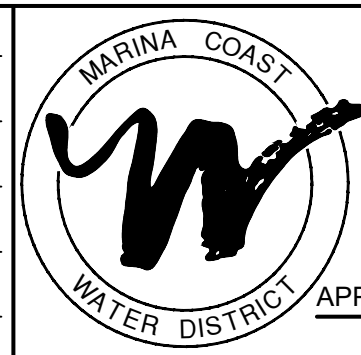


1 CONNECTION TO EXISTING 18" WATER LINE  
SCALE: 1" = 10'



NOTE: RESTRAIN ALL PIPE JOINTS PER DETAIL ON SHEET 3 USING FIELD LOK 350 GASKETS.  
RESTRAIN ALL FITTINGS USING EBAA MEGALUG SERIES 1100.

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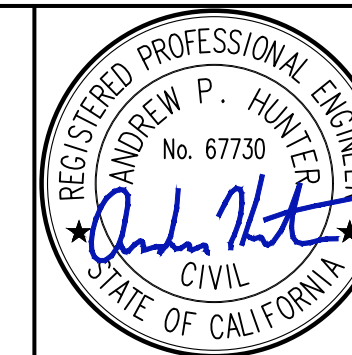
APPROVED FOR CONSTRUCTION:

GARRETT HAERTEL, P.E., DISTRICT ENGINEER

DATE



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**INTER-GARRISON ROAD WATER LINE**  
**PLAN AND PROFILE**  
**STA. 25+50 - 28+50**

DATE:	01/31/25
SCALE:	1"=40'
DESIGN:	ML
DRAWN:	ML
CHECK:	APH

**SHEET**  
**7**  
**of**  
**7**