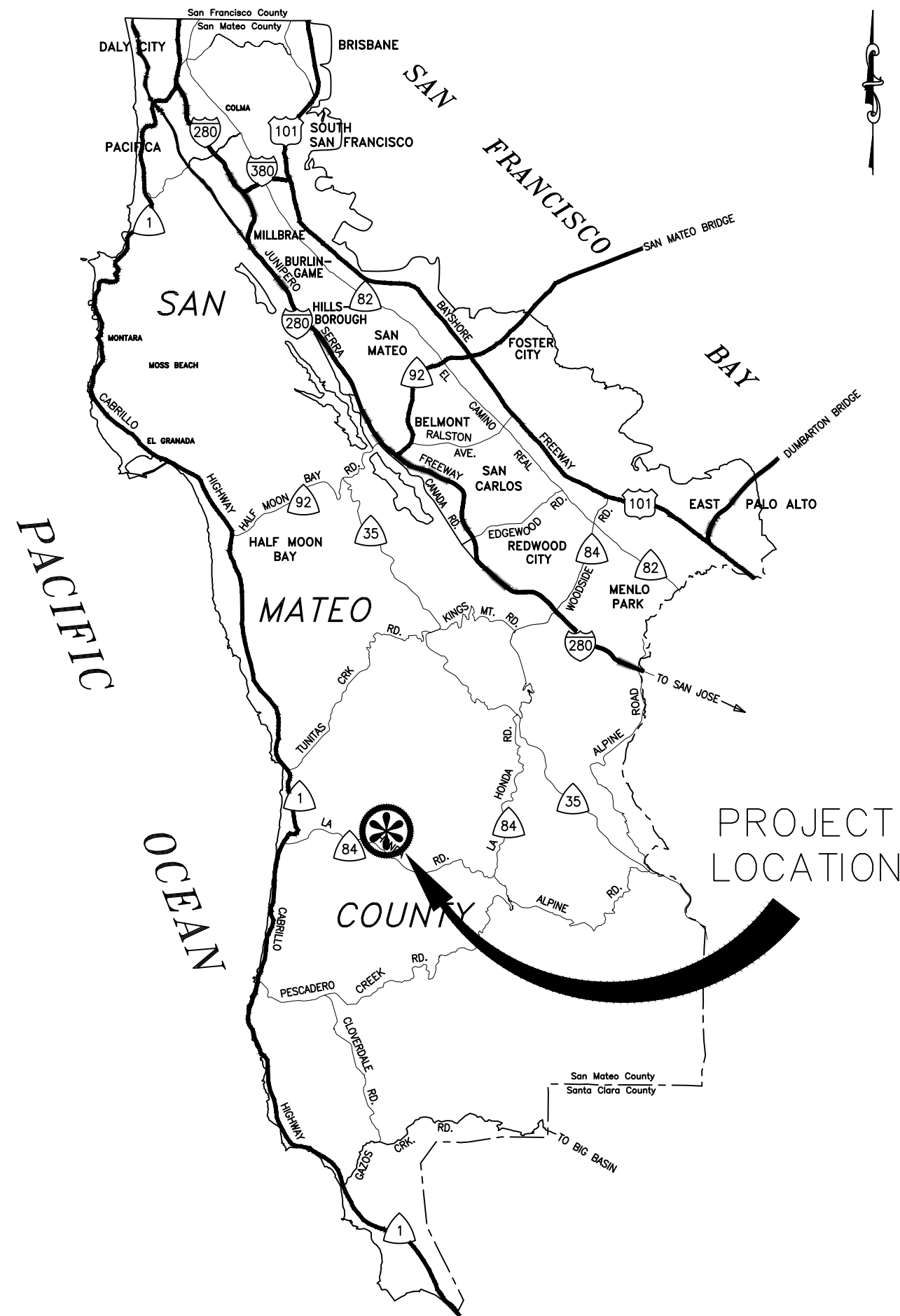
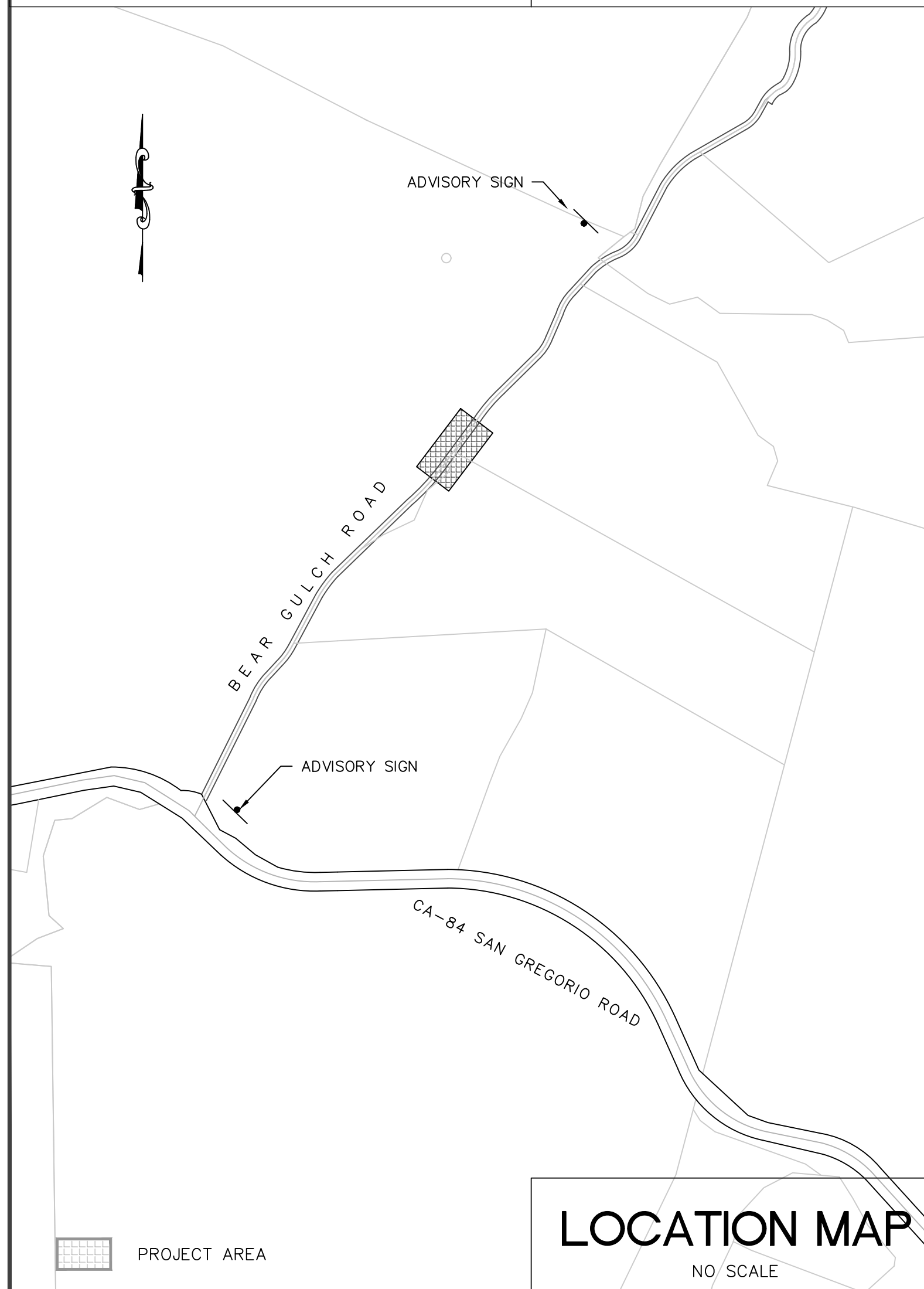




PROJECT ADDRESS: 8609 BEAR GULCH ROAD, SAN GREGORIO, CA 94074

VICINITY MAP
NO SCALE



LOCATION MAP
NO SCALE

COUNTY OF SAN MATEO CALIFORNIA

60 INCH CULVERT REPLACEMENT PROJECT AT BEAR GULCH ROAD TOTAL PROJECT LENGTH, APPROXIMATELY 82 LINEAR FEET

TO BE SUPPLEMENTED BY STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLANS
DATED MAY 2018 AND ADOPTED BY SAN MATEO COUNTY, FEBRUARY 11, 2020, BY RESOLUTION NO. 077227

ABBREVIATIONS:

AB	AGGREGATE BASE
AC	ASPHALT CONCRETE
AGG	AGGREGATE
APPROX	APPROXIMATE
BM	BENCHMARK
CA	CALIFORNIA DEPARTMENT OF TRANSPORTATION
CALTRANS	CALTRANS
CL	CENTERLINE
CLR	CLEAR, CLEARANCE
CONC	CONCRETE
CONST	CONSTRUCT, CONSTRUCTION
CMP	CORRUGATED METAL PIPE
CTRS	CENTERS
D	DEPTH
E(OH)	ELECTRICAL OVER HEAD ELEVATION
ELE	ELEVATION
EP	EDGE OF PAVEMENT
ESA	ENVIRONMENTALLY SENSITIVE AREA
EX, EXIST	EXISTING
FD	FOUND
FG	FINISHED GROUND
FL	FLOW LINE
FNC	FENCE
GB	GRADE BREAK
H	HEIGHT
HDPE	HIGH DENSITY POLY ETHYLENE
I.D.	INSIDE DIAMETER
INV	INVERT
JP	JOINT UTILITY POLE
JT	JOINT
L	LENGTH
LF	LINEAR FEET
LT	LEFT
MAX	MAXIMUM
MIN	MINIMUM
MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
NG	NATURAL GROUND
O.D.	OUTSIDE DIAMETER
O.G.	ORIGINAL GROUND, ON GRADE
PE	POLY ETHYLENE
PP	POWER POST
PR	PROPOSED
PSI	POUNDS PER SQUARE INCH
REINF	REINFORCEMENT
RR	REMOVE AND REPLACE
RT	RIGHT
R/W, ROW	RIGHT OF WAY
RD	ROAD
ROE	RIGHT OF ENTRY
S	SLOPE
SHT	SHEET
ST	STREET
STA	STATION
STD	STANDARD
TBD	TO BE DETERMINED
TEMP	TEMPORARY
TYP	TYPICAL
WL	WORK LIMITS

BASIS OF BEARINGS:

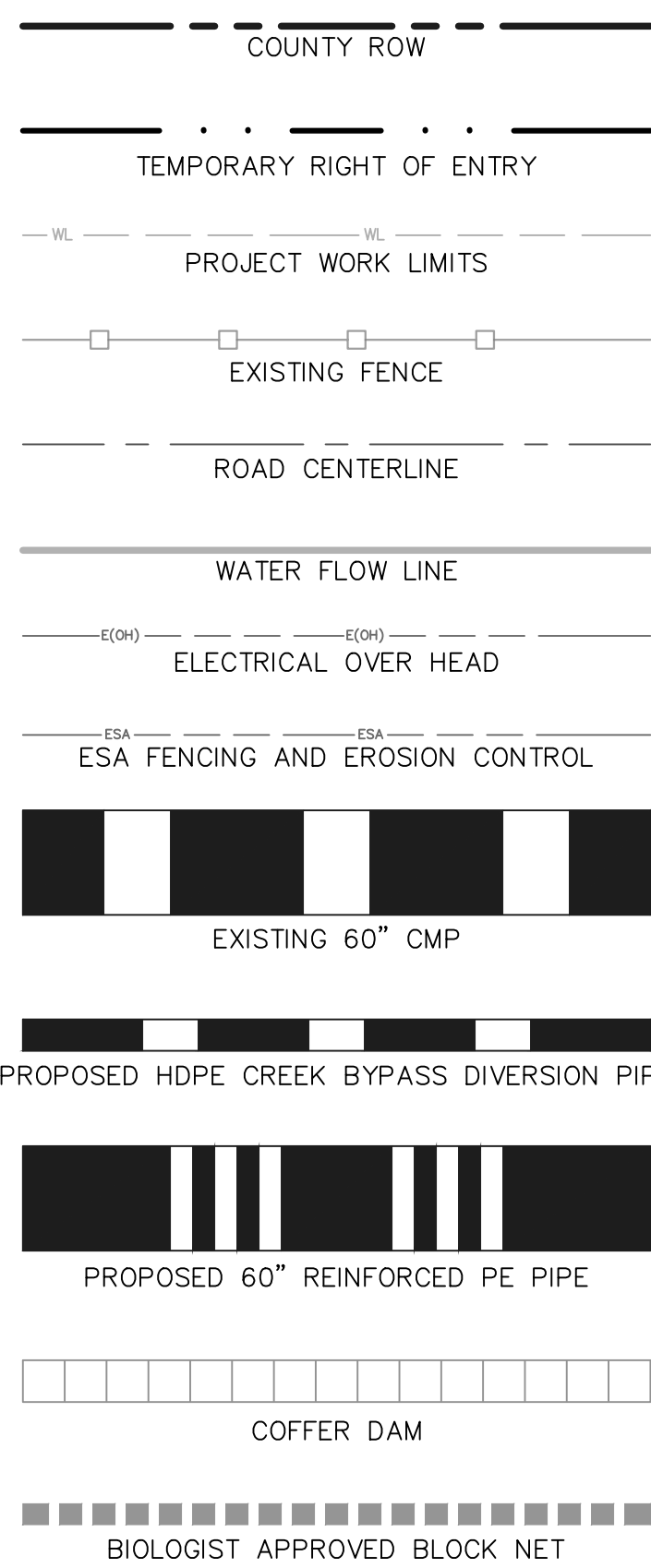
THE BASIS OF BEARINGS WERE BASED BETWEEN TWO SET NAILS, NAMELY POINTS 100 AND 101 WITH HAVING A BEARING OF N60°01'35.01"E.

POINT 100	POINT 101
N: 5000.00	N: 4877.48
E: 10000.00	E: 10212.44
Z: 500.00	Z: 494.31

ALL COORDINATES AND BEARINGS ARE ARBITRARY AND ASSUMED.

PRIOR TO ANY SURVEY WORK BY CONTRACTOR, COUNTY SURVEYOR SHALL MARK UP CONTROL POINTS.

LEGEND:



APPLICABLE STANDARD PLANS:

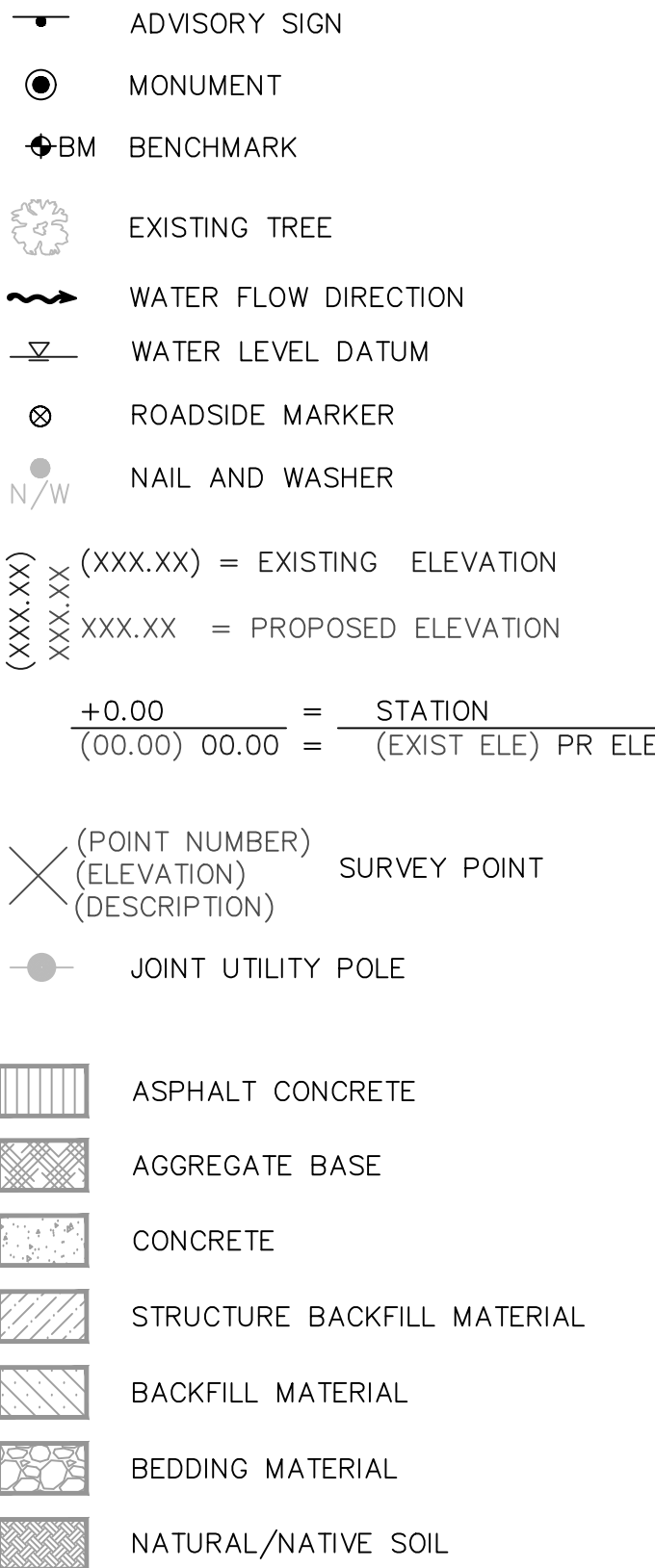
2018 CALTRANS STANDARDS: D86B, B11-47

2022 SAN MATEO COUNTY
PUBLIC WORKS STANDARDS: A-8, B-15

REFERENCE DWG:

BEAR GULCH CULVERT IMPROVEMENT (FILE NO. E5030)

LEGEND:



SHEET INDEX:

- TITLE SHEET / GENERAL NOTES
- EXISTING AREA CONDITIONS
- PROPOSED IMPROVEMENTS
- PIPE CULVERT HEADWALL DETAILS
- TEMPORARY CREEK DIVERSION PLAN
- STANDARD DETAILS (TRENCH/ROAD)

NOTES:

- CONTRACTOR SHALL CONFINE HIS OPERATIONS AND ACTIVITIES WITHIN THE PROJECT LIMITS, CONSISTING OF ROAD RIGHT-OF-WAY, RIGHTS OF ENTRY AND/OR PROJECT CONFORMS, AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER.
- CONTINUOUS DUST CONTROL SHALL BE PROVIDED AS REQUIRED BY SECTION 10 OF THE SPECIAL PROVISIONS AND AS DIRECTED BY THE ENGINEER.
- LOCATIONS AND DEPTHS OF EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE UTILITIES TO DETERMINE EXACT LOCATIONS AND DEPTHS. CONTRACTOR SHALL CALL USA NORTH 811 (USA) UNDERGROUND SERVICE ALERT A MINIMUM OF FORTY-EIGHT (48) HOURS IN ADVANCE OF ANY EXCAVATION OR TRENCHING WORK. USA MAY BE CONTACTED EITHER ON-LINE AT USANORTH811.ORG OR BY PHONE BY DIALING (800) 227-2600 OR 811. WHEN CALLING, BE PREPARED TO GIVE LOCATION AND NATURE OF WORK, START DATE, COMPANY NAME, ADDRESS AND TELEPHONE NUMBER.
- PLANS MAY NOT SHOW ALL EXISTING WATER, GAS, SANITARY SEWER LATERALS, AND OVER HEAD POWER LINES AND UTILITY POLES. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION AND PRESERVATION OF ALL SUCH FACILITIES WHICH ARE NOT TO BE RELOCATED.
- CONTRACTOR IS ADVISED THAT EXCAVATION MAY CONFLICT WITH SANITARY SEWER LATERALS, GAS LINES, WATER LINES AND OTHER UNDERGROUND UTILITIES. ANY DAMAGE TO EXISTING FACILITIES CAUSED BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- CONFORM LOCATIONS SHOWN ARE APPROXIMATE ONLY. EXACT LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- NO TREES, VEGETATION OR IMPROVEMENTS (INCLUDING FENCES) SHALL BE REMOVED WITHOUT THE PRIOR WRITTEN CONSENT AND APPROVAL OF THE ENGINEER. VEGETATION AND IMPROVEMENTS WHICH ARE DESIGNATED TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. REFER TO PROJECT SPECIAL PROVISIONS SECTION 11 REGARDING REQUIREMENTS FOR ADVANCE NOTIFICATION OF PROPERTY OWNERS.
- WHEN DIRECTED BY THE ENGINEER, CUT AND FILL SLOPE RATIOS SHALL BE VARIED TO AVOID TREES OR OTHER EXISTING IMPROVEMENTS.
- CONTRACTOR SHALL EXERCISE CARE WHEN EXCAVATING NEAR TREES AND ROOTS OF TREES TO REMAIN. SEE SECTION 19 OF THE SPECIAL PROVISIONS.
- ANY DAMAGE, AS A RESULT OF THE CONTRACTOR'S OPERATION, TO PAVEMENT AND BASE MATERIAL THAT IS TO REMAIN SHALL BE REPAIRED, OR REMOVED AND REPLACED WITH SAME TYPE OF MATERIAL OR APPROVED EQUAL, AS DIRECTED BY THE ENGINEER, AND AT THE SOLE EXPENSE OF THE CONTRACTOR. THE ENGINEER SHALL BE THE SOLE JUDGE OF THE ADEQUACY OF THE COMPLETED REMEDIAL WORK.
- ADVISORY SIGNS SHALL BE SET IN ACCORDANCE TO THE LOCATIONS AS SHOWN ON THE LOCATION MAP OF PLAN SHEET 1.

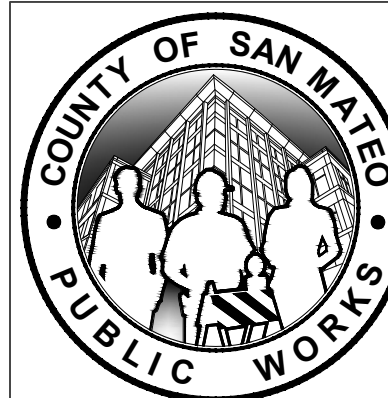


APPROVED:

DATE: 06/10/2022

Ann Mader Stillman

ANN MADER STILLMAN,
INTERIM DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023



		DESIGNED BY: ADG	60 INCH CULVERT REPLACEMENT PROJECT AT BEAR GULCH ROAD TITLE SHEET / GENERAL NOTES	SCALE: NO SCALE
		CHECKED BY: AL		DATE: 06-09-2022
		DRAWN BY: ADG		FILE NO.: E5030
		ANN MADER STILLMAN, INTERIM DIRECTOR OF PUBLIC WORKS COUNTY SAN MATEO		
		555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063		
REVISION	DATE			
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES				0 1 2 3 4 SHEET 1 OF 6

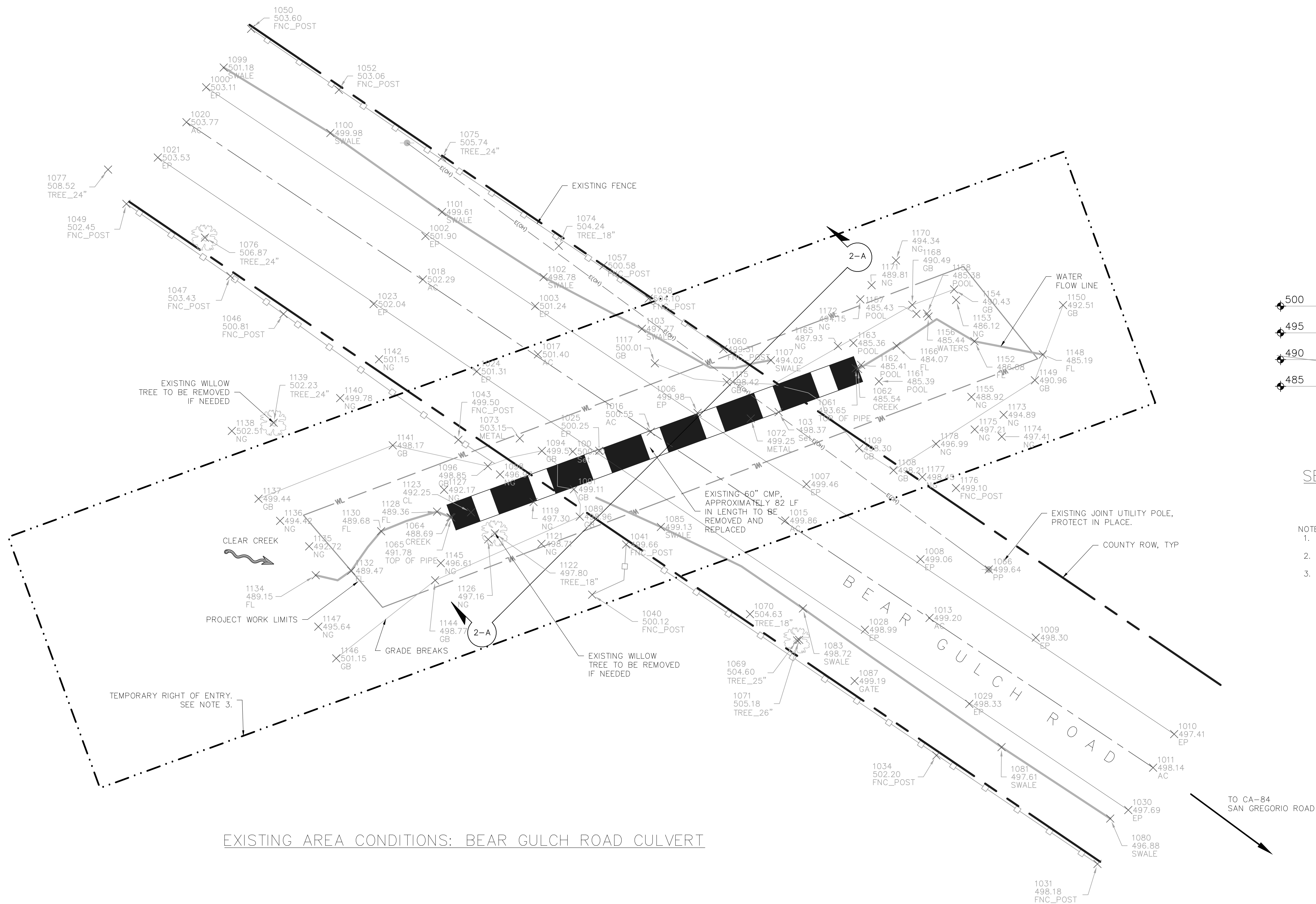
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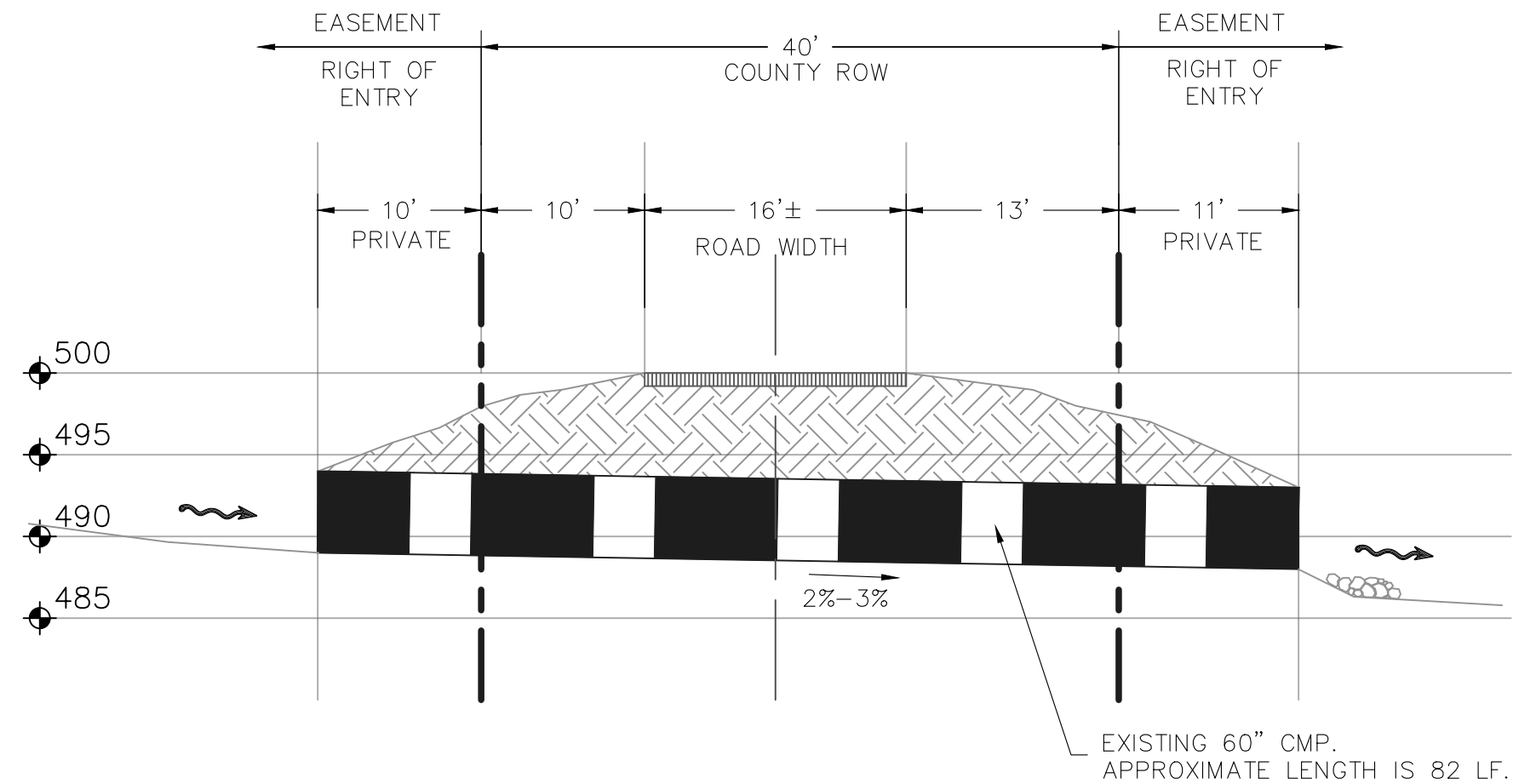
APPROVED:

DATE: 06/10/2022

Ann Mader Stillman
ANN MADER STILLMAN,
INTERIM DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

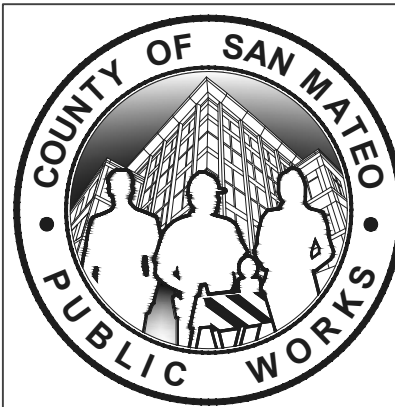


EXISTING AREA CONDITIONS: BEAR GULCH ROAD CULVERT



SECTION 2-A: EXISTING BEAR GULCH ROAD CULVERT

- NOTES:
1. PLANS MAY NOT SHOW ALL EXISTING UNDERGROUND UTILITIES, OVER HEAD POWER LINES, AND OTHER EXISTING FACILITIES WITHIN THE PROJECT AREA.
 2. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING AREA CONDITIONS AND EXISTING UTILITIES PRIOR TO CONSTRUCTION.
 3. TEMPORARY RIGHT OF ENTRY DIMENSIONS ARE 50 FEET WIDE BY 210 FEET LONG. WITH 50 FEET WIDE BEING A 25 FEET OFFSET ON EACH SIDE OF CLEAR CREEK CENTERLINE.



		DESIGNED BY: ADG	60 INCH CULVERT REPLACEMENT PROJECT AT BEAR GULCH ROAD EXISTING AREA CONDITIONS	SCALE: AS SHOWN
		CHECKED BY: AL		DATE: 06-09-2022
		DRAWN BY: ADG		FILE NO.: E5030
		ANN MADER STILLMAN, INTERIM DIRECTOR OF PUBLIC WORKS COUNTY SAN MATEO		555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063
REVISION	DATE			
		FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES		
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		SHEET 2 OF 6		

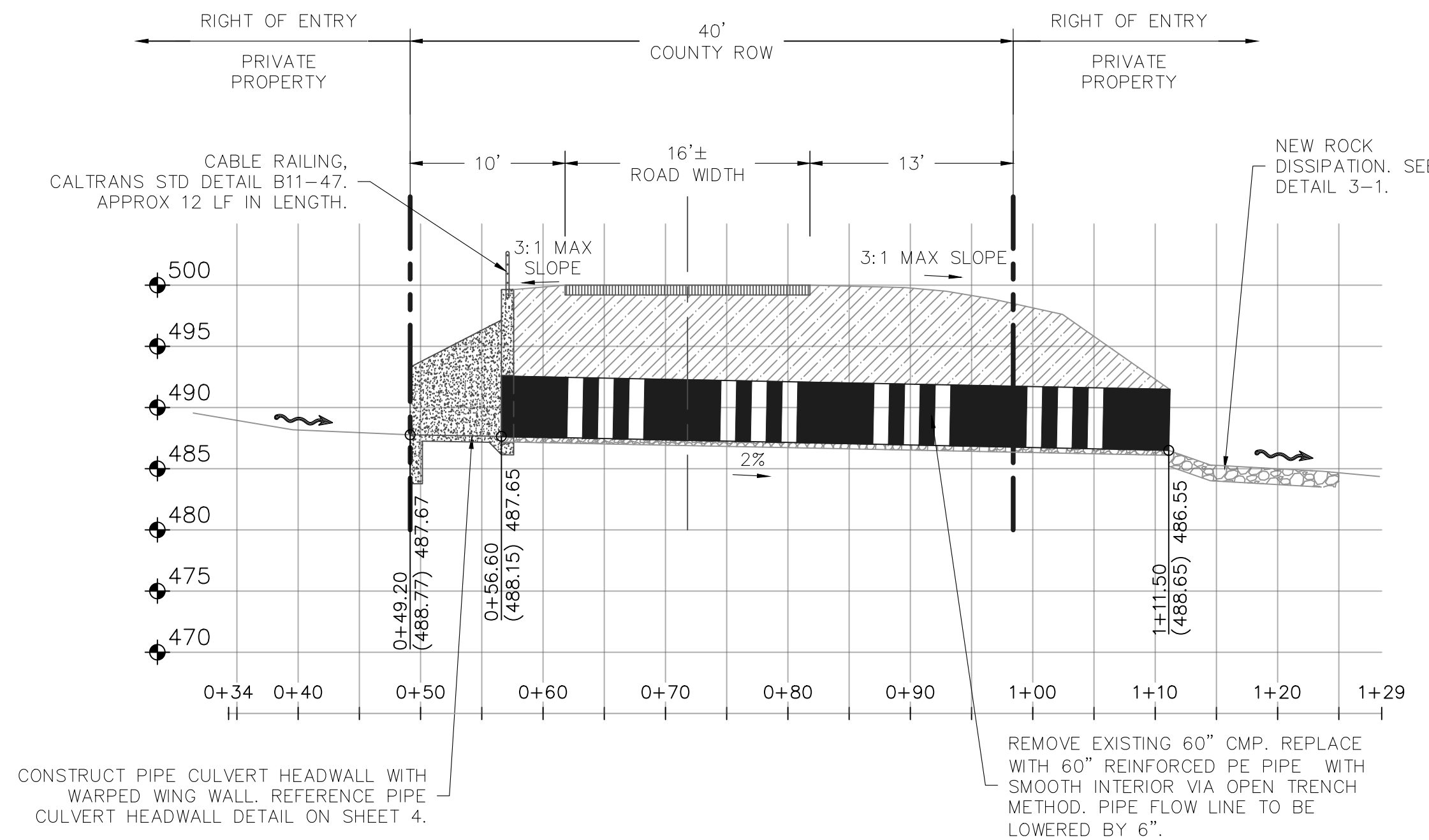
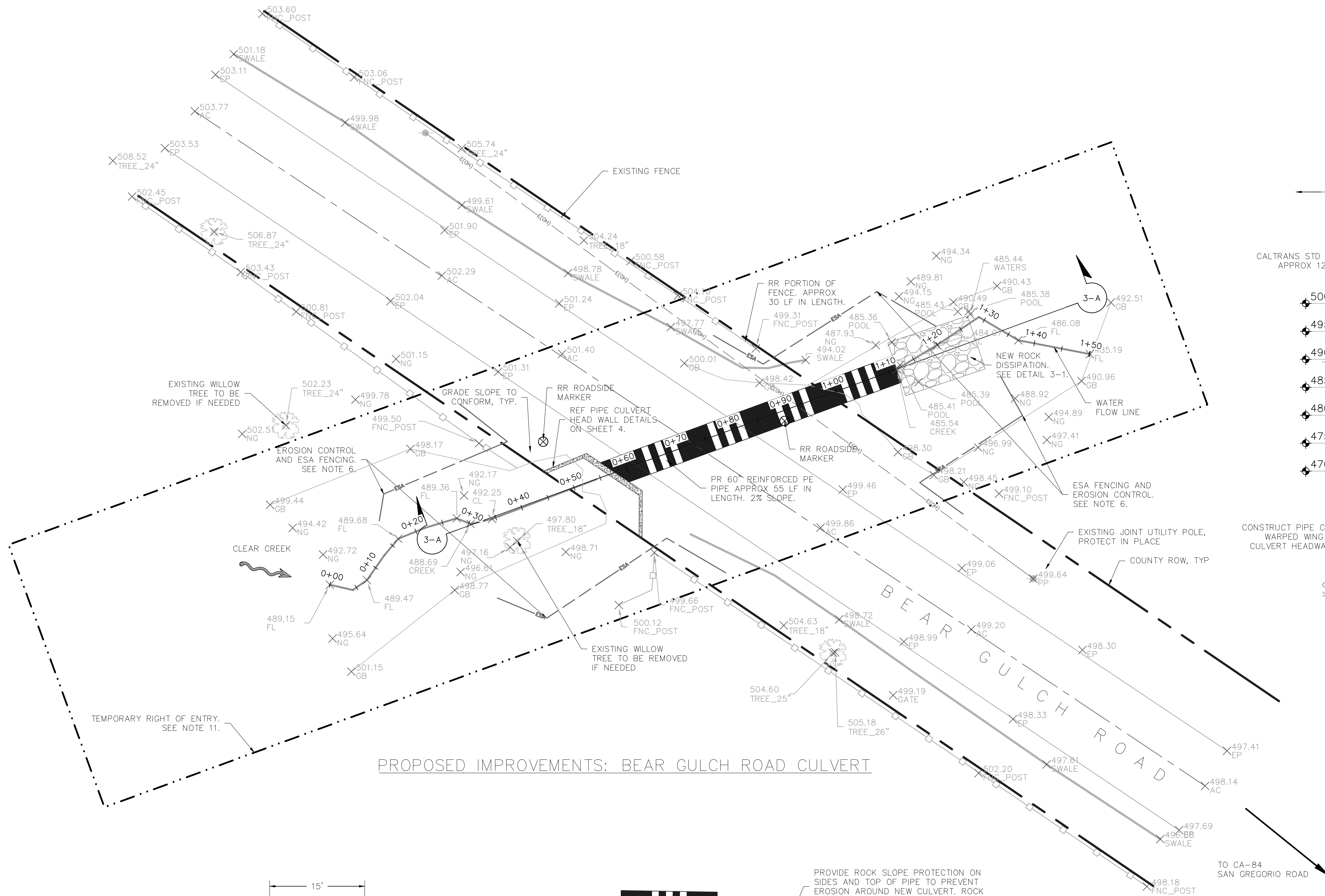
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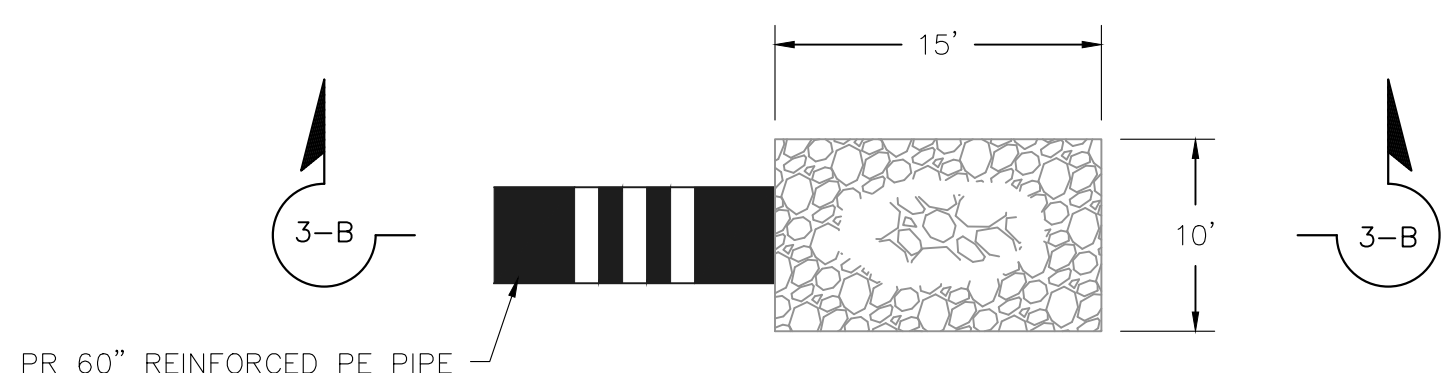
DATE: 06/10/2022

ANN MADER STILLMAN,
INTERIM DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

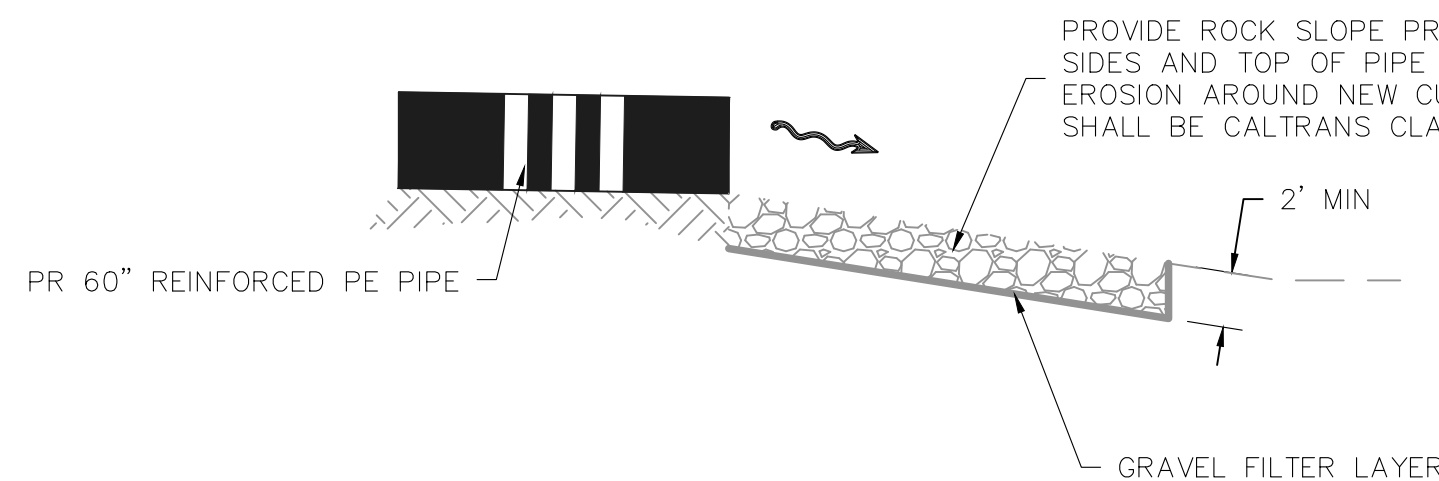


SECTION 3-A: BEAR GULCH ROAD CULVERT AND HEADWALL

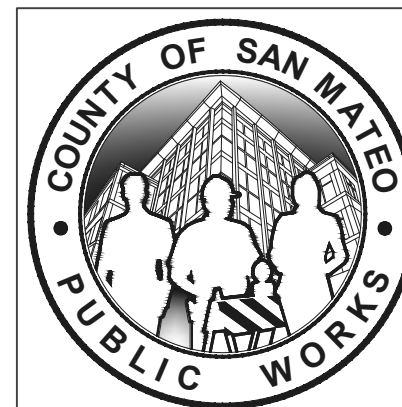
- NOTES:
1. CONSTRUCTION OF PIPE CULVERT HEADWALL AND WARPED WING WALL SHALL CONFORM WITH 2018 CALTRANS STANDARD DETAIL D86B.
 2. ENTIRE LENGTH OF NEW 60" REINFORCED PE PIPE SHALL BE LOWERED BY 6" FROM THE FLOW LINE ELEVATION OF EXISTING 60" CMP PIPE TO MEET PERMIT REQUIREMENTS.
 3. MAINTAIN SLOPE OF 2% FOR NEW 60" REINFORCED PE PIPE.
 4. 60" REINFORCED PE PIPE INSTALLATION SHALL CONFORM WITH MANUFACTURER'S SPECIFICATION.
 5. A TEMPORARY CREEK DIVERSION SYSTEM SHALL BE INSTALLED PRIOR TO CONSTRUCTION. SEE SHEET 5 FOR TEMPORARY CREEK DIVERSION PLAN.
 6. INSTALL ESA FENCING AND EROSION CONTROL ON BOTH SIDES OF BANKS FOR BOTH UPSTREAM AND DOWNSTREAM END. ESA FENCING AND EROSION CONTROL OFFSET LOCATIONS SHALL BE DETERMINED BY BIOLOGIST ON SITE AND SHALL BE INSTALLED APPROPRIATELY BEFORE START OF CONSTRUCTION. DISTURBED AREAS WILL BE SEED WITH A NATIVE PLANT MIX, COVERED WITH NATURAL EROSION CONTROL MAT, AND MULCHED WITH STERILE RICE STRAW. PLASTIC MONOFILAMENT NETTING (EROSION CONTROL MATTING), LOOSELY WOVEN NETTING, OR SIMILAR MATERIAL IN ANY FORM WILL NOT BE USED AT THE PROJECT SITE. MATERIALS UTILIZING FIXED WEAVES (STRANDS CANNOT MOVE), POLYPROPYLENE, POLYMER OR OTHER SYNTHETIC MATERIALS WILL NOT BE USED.
 7. TRENCH SAFETY AND SHORING SHALL BE PRESENT DURING CONSTRUCTION. TRENCH SHORING FOR EXCAVATIONS 5' IN DEPTH OR GREATER SHALL BE DESIGNED BY A PROFESSIONAL LICENSED ENGINEER.
 8. TRENCH BACKFILL SHALL CONSIST OF APPROVED MATERIALS BY COUNTY. SEE SHEET 6 FOR TRENCH BACKFILL DETAIL.
 9. PROPER TRAFFIC CONTROL SIGNS AND DEVICES SHALL BE PRESENT AT PROJECT SITE. TRAFFIC CONTROL PLAN SHALL FOLLOW CA MUTCD LANE CLOSURE ON A TWO-LANE ROAD AND SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. ONE LANE ROAD SHALL REMAIN OPEN DURING CONSTRUCTION PERIOD.
 10. REPLACE ASPHALT CONCRETE ROAD PAVEMENT REMOVED DURING TRENCHING WORK. SEE SHEET 6 FOR STRUCTURAL ROAD SECTION DETAIL.
 11. TEMPORARY RIGHT OF ENTRY DIMENSIONS ARE 50 FEET WIDE BY 210 FEET LONG. WITH 50 FEET WIDE BEING A 25 FEET OFFSET ON EACH SIDE OF CLEAR CREEK CENTERLINE.



DETAIL 3-1: ROCK DISSIPATION PLAN
NO SCALE



SECTION 3-B
NO SCALE



DESIGNED BY: ADG		60 INCH CULVERT REPLACEMENT PROJECT AT BEAR GULCH ROAD		SCALE: AS SHOWN
CHECKED BY: AL		PROPOSED IMPROVEMENTS		DATE: 06-09-2022
DRAWN BY: ADG		ANN MADER STILLMAN, INTERIM DIRECTOR OF PUBLIC WORKS COUNTY SAN MATEO		FILE NO.: E5030
REVISION		555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063		
DATE				
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES		0 1 2 3 4		3 SHEET 3 OF 6

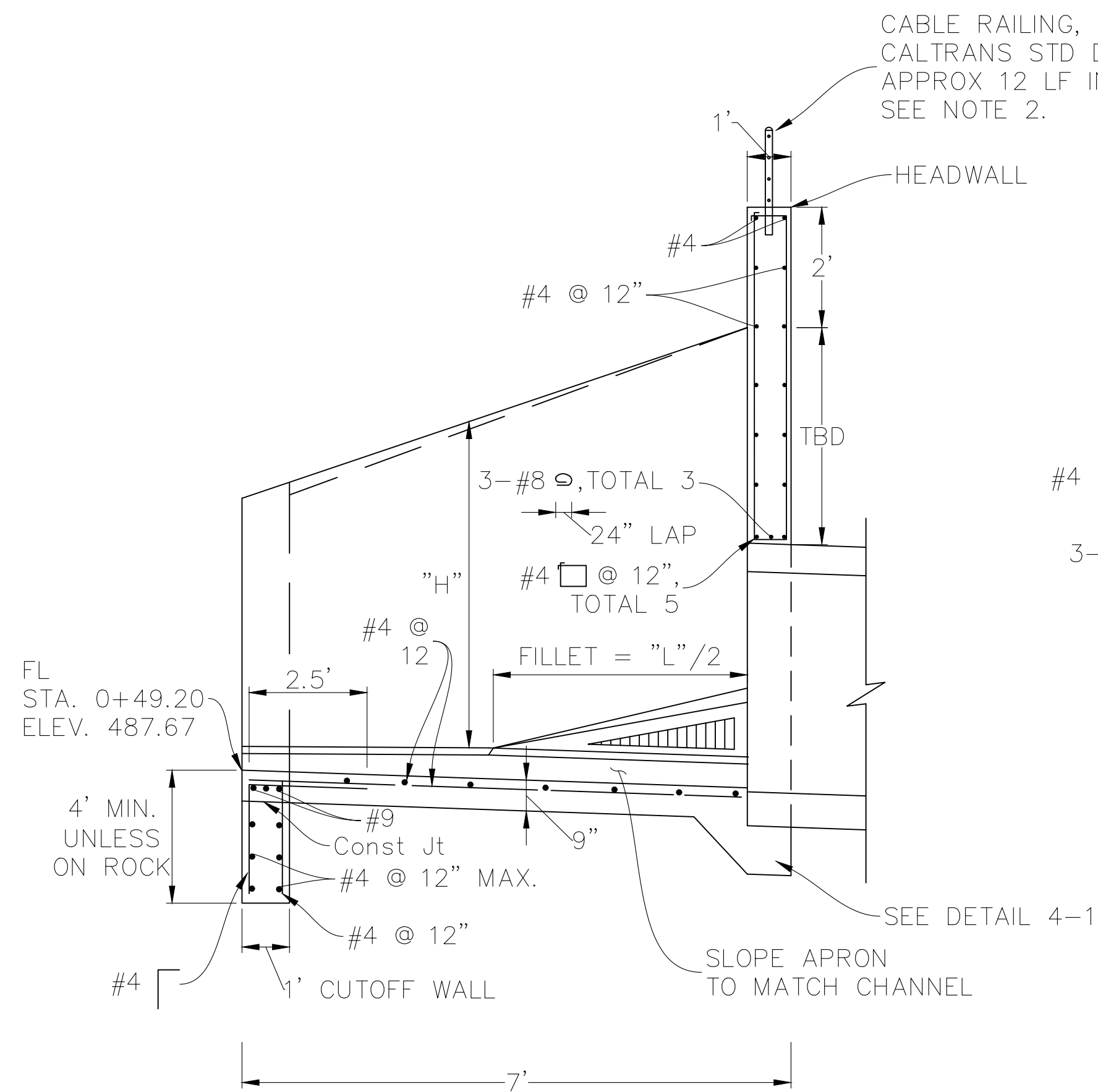


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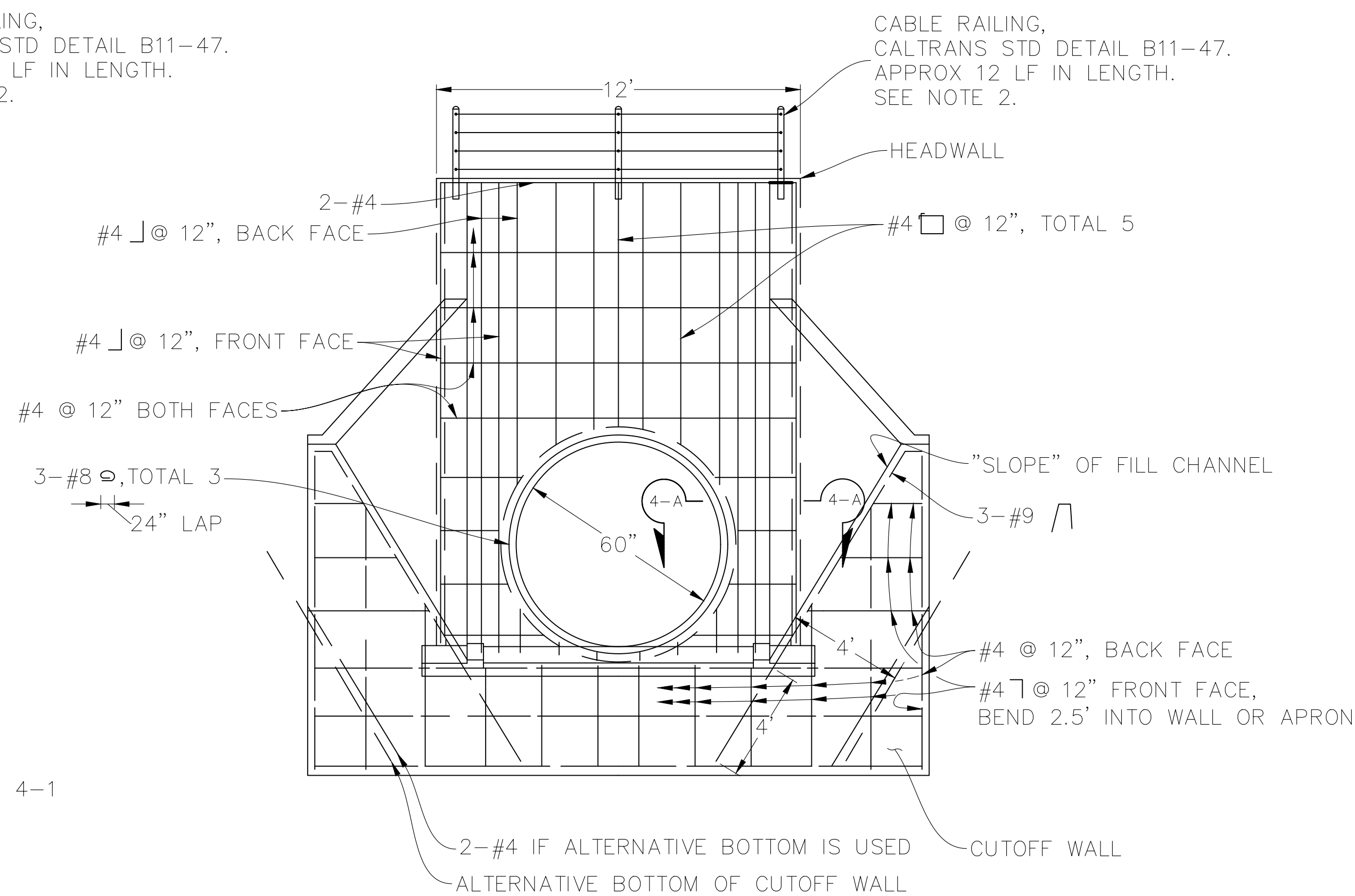
DATE: 06/10/2022

Ann Mader Stillman

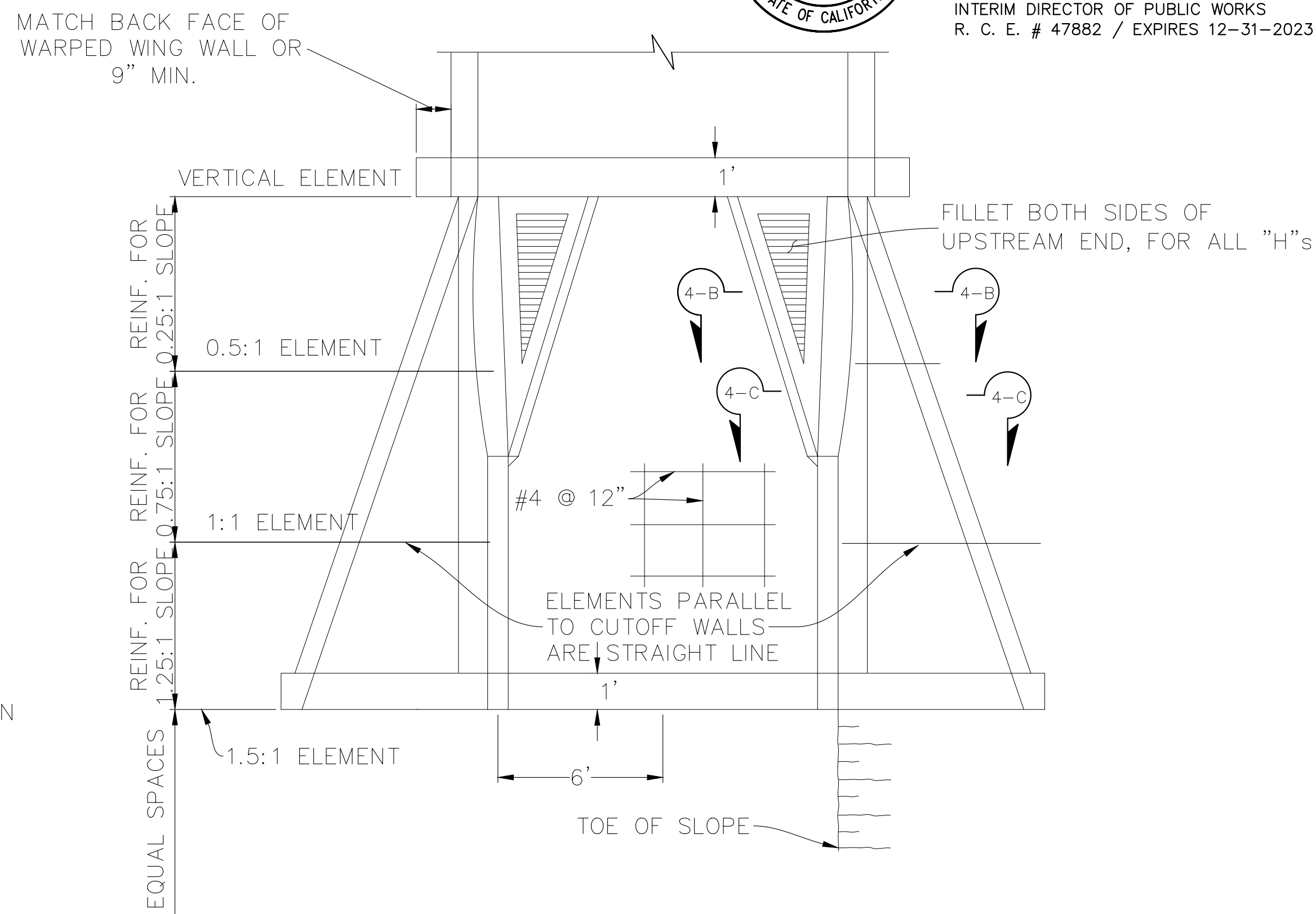
ANN MADER STILLMAN,
INTERIM DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023



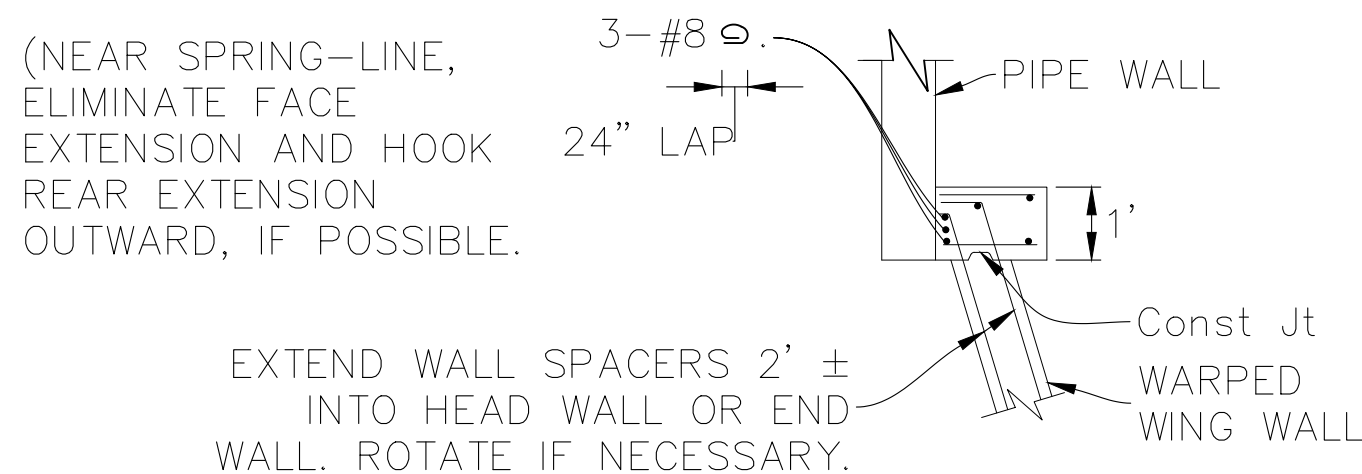
LONGITUDINAL SECTION



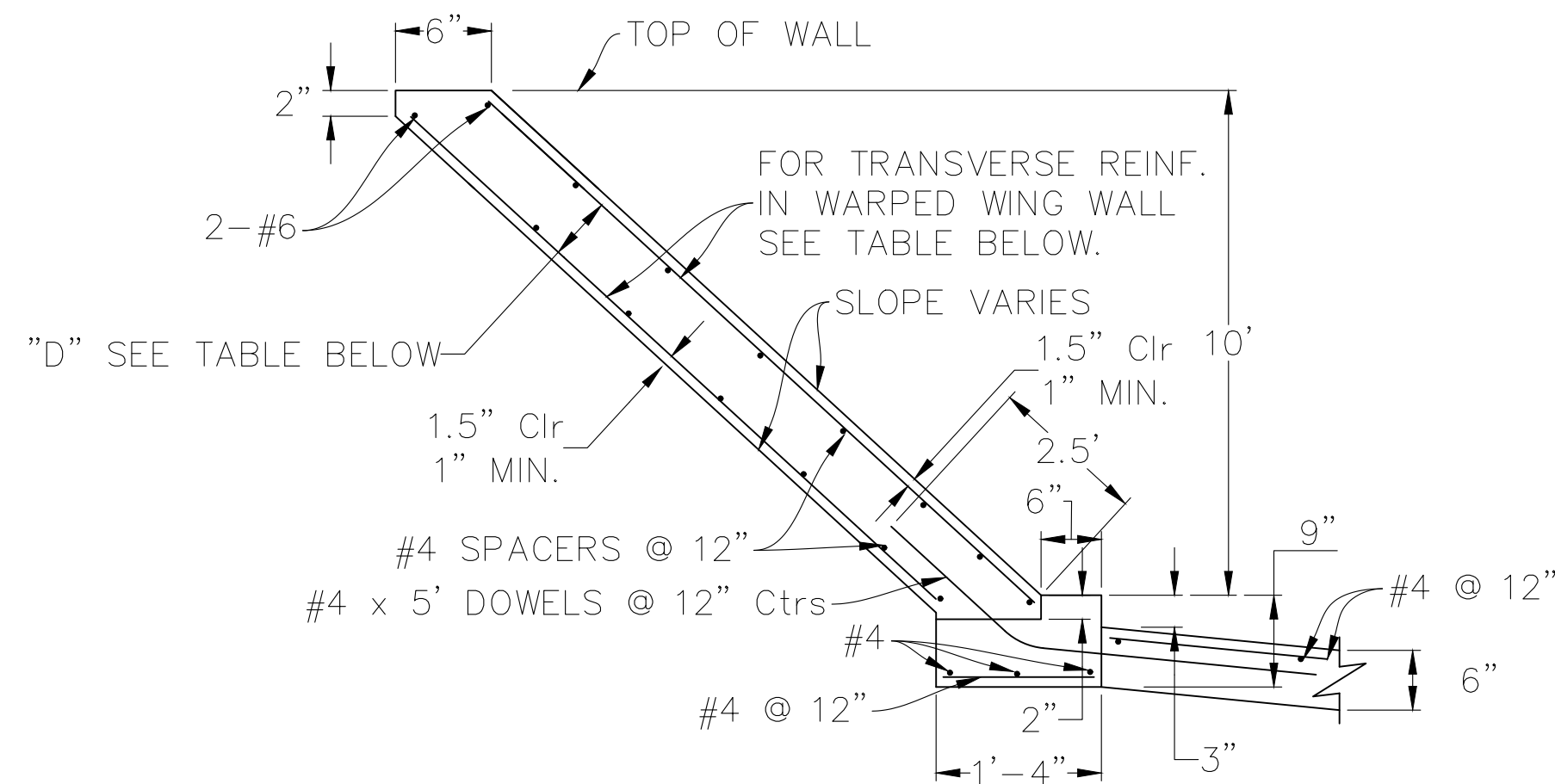
FRONT ELEVATION



PLAN VIEW

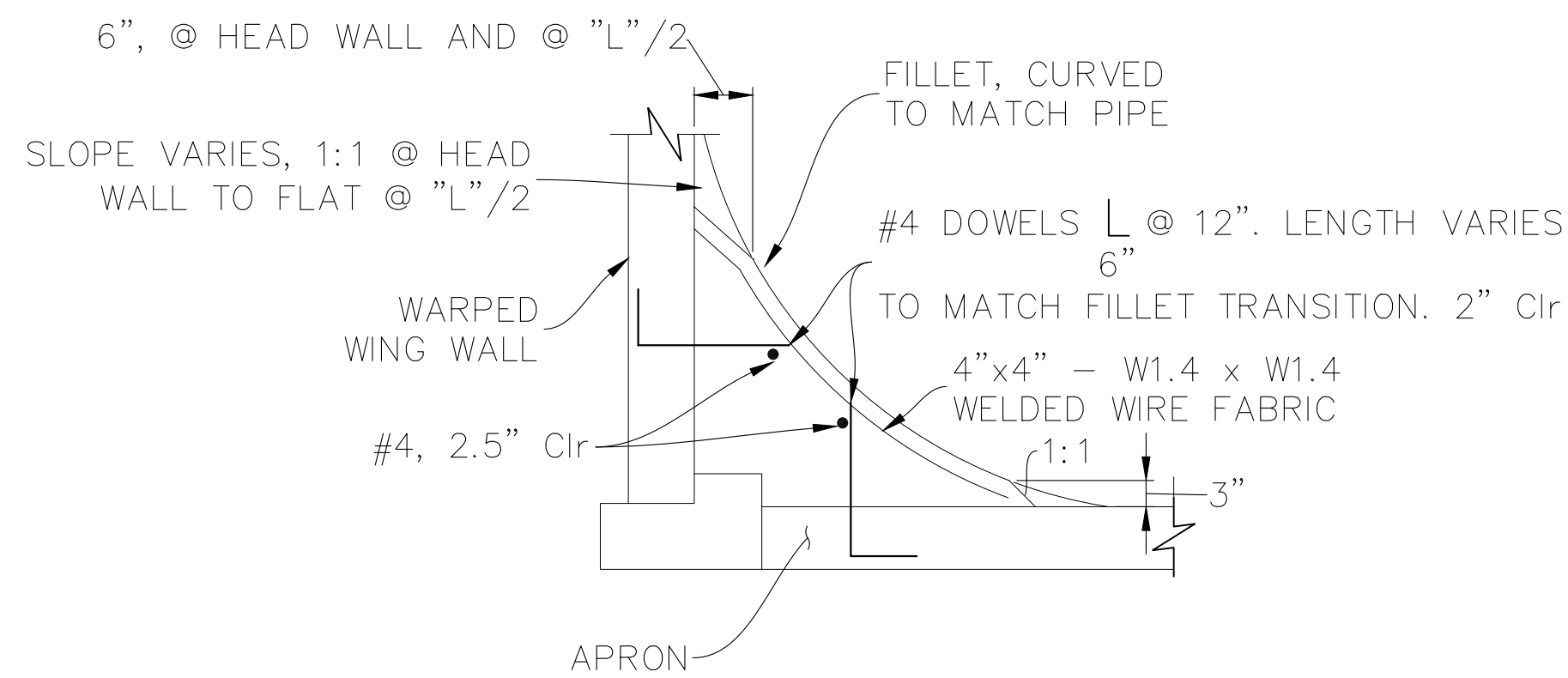


SECTION 4-A

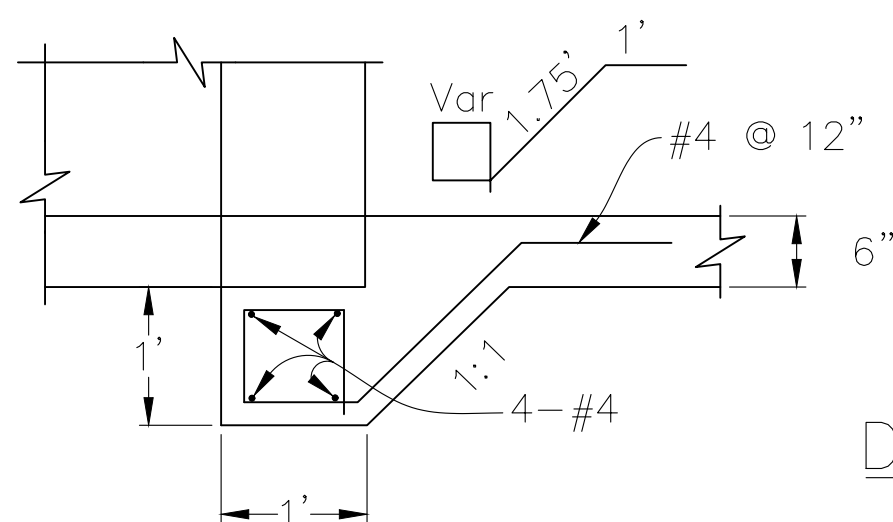


SECTION 4-C

WHERE ABRASION IS ANTICIPATED, INCREASE APRON THICKNESS TO 7" MIN. TO PROVIDE 2" MIN. REINFORCEMENT COVERAGE.



SECTION 4-B

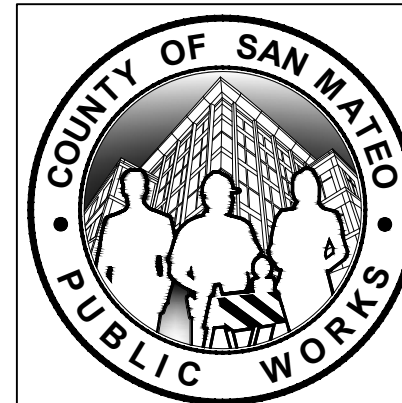


DETAIL 4-1

WALL DIMENSIONS AND REINFORCING								
ELEMENT SLOPE	"H"	8' OR LESS	10'	12'	14'	16'	18'	20'
0.25:1	FRONT FACE Reinf	#4 @ 12	#4 @ 7	#5 @ 7	#5 @ 5	#6 @ 6	#7 @ 7	#7 @ 6
	REAR FACE Reinf	#4 @ 12	#4 @ 12	#4 @ 12	#4 @ 12	#4 @ 12	#4 @ 12	#4 @ 12
0.75:1	FRONT FACE Reinf	#4 @ 12	#4 @ 12	#4 @ 8	#4 @ 8	#4 @ 8	#4 @ 6	#4 @ 6
	REAR FACE Reinf	#4 @ 12	#4 @ 12	#4 @ 12	#4 @ 10	#4 @ 7	#4 @ 6	#5 @ 8
1.25:1	FRONT FACE Reinf	#4 @ 12	#4 @ 12	#4 @ 12	#4 @ 12	#4 @ 12	#4 @ 12	#4 @ 12
	REAR FACE Reinf	#4 @ 8	#4 @ 8	#4 @ 5	#5 @ 6	#6 @ 7	#6 @ 6	#7 @ 6
"D" AT CUTOFF WALL		6"	6"	6"	7.5"	8"	9.5"	11"
"D" AT CULVERT		6"	6"	6"	8"	9.5"	11"	1'-1"

NOTES:

- CONSTRUCTION OF PIPE CULVERT HEADWALL AND WARPED WING WALL SHALL CONFORM WITH 2018 CALTRANS STANDARD DETAIL D86B.
- INSTALLATION OF CABLE RAILING SHALL CONFORM WITH 2018 CALTRANS STANDARD DETAIL B11-47.



		DESIGNED BY: ADG	60 INCH CULVERT REPLACEMENT PROJECT AT BEAR GULCH ROAD		SCALE: NO SCALE
		CHECKED BY: AL	PIPE CULVERT HEADWALL DETAILS		DATE: 06-09-2022
		DRAWN BY: ADG			FILE NO.: E5030
		ANN MADER STILLMAN, INTERIM DIRECTOR OF PUBLIC WORKS COUNTY SAN MATEO		555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063	
REVISION	DATE				
		FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES			
		0 1 2 3 4			
		SHEET 4 OF 6			

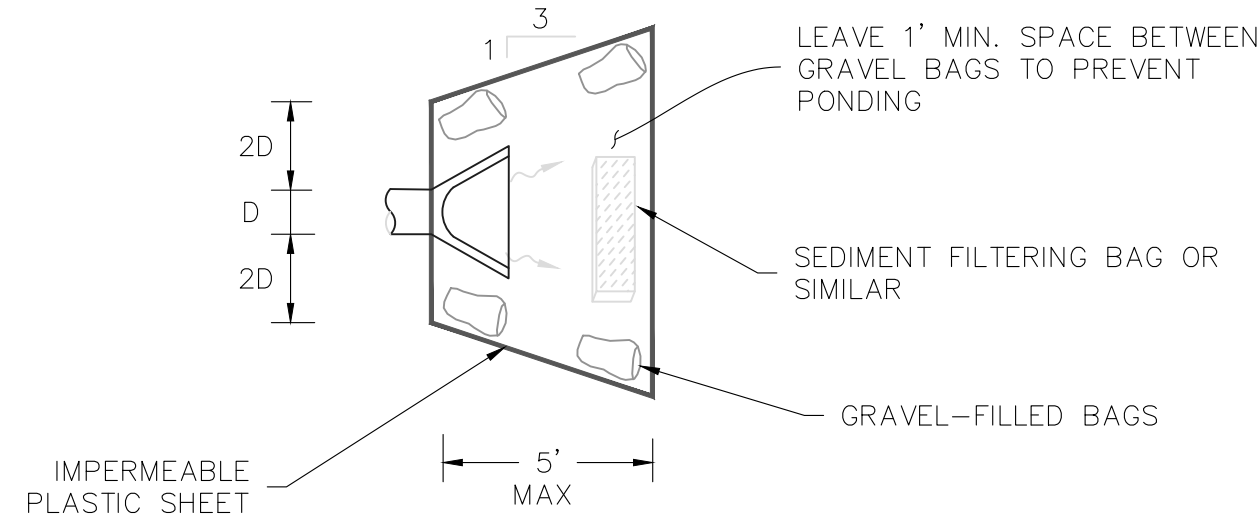
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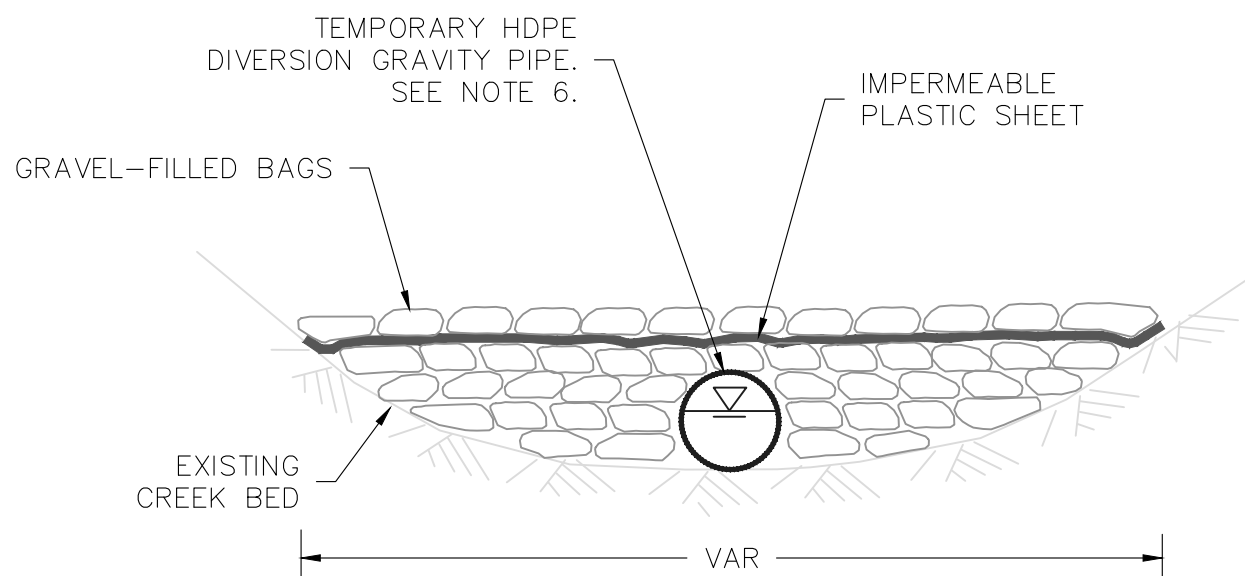
APPROVED:

DATE: 06/10/2022

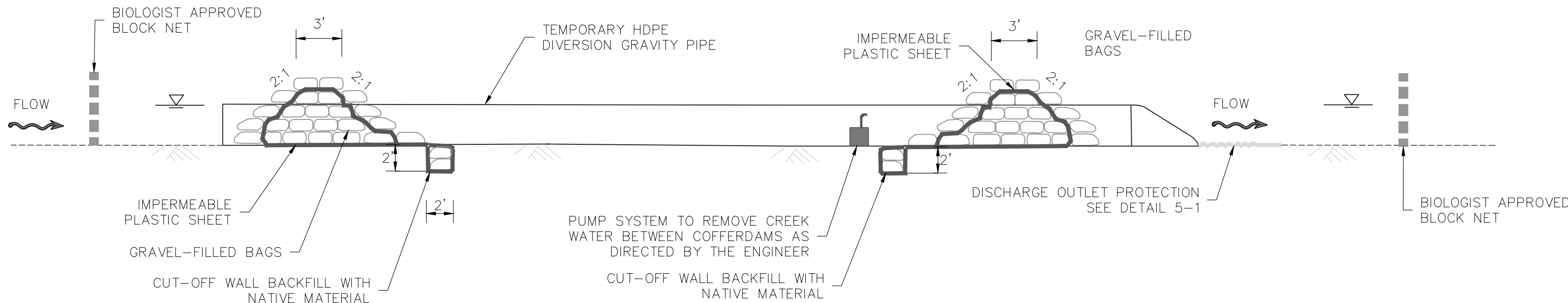
ANN MADER STILLMAN,
INTERIM DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023



DETAIL 5-1: DISCHARGE OUTLET PROTECTION
NO SCALE



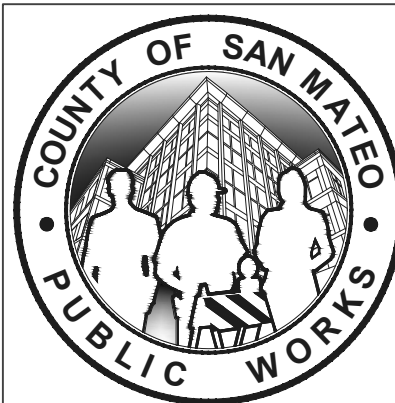
SECTION 5-B
NO SCALE



SECTION 5-A
NO SCALE

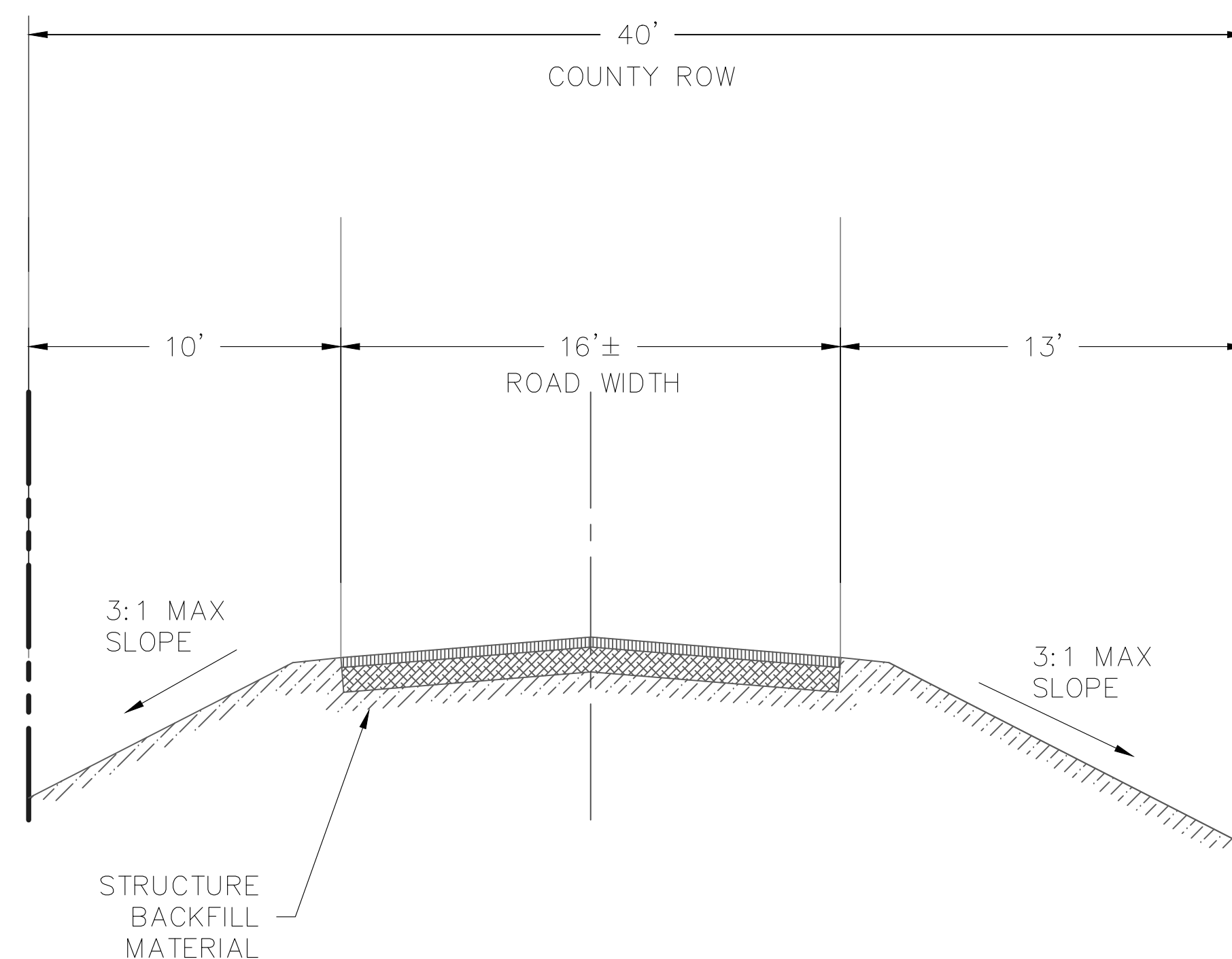
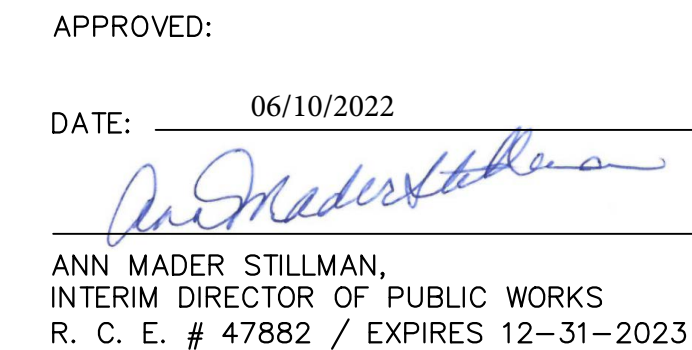
TEMPORARY CREEK DIVERSION PLAN

- NOTES:
1. ESA FENCING AND EROSION CONTROL OFFSET LOCATIONS SHALL BE DETERMINED BY BIOLOGIST ON SITE AND SHALL BE INSTALLED APPROPRIATELY BEFORE START OF CONSTRUCTION.
 2. NO HEAVY EQUIPMENT WILL BE OPERATED WITHIN THE BED AND BANKS OF CLEAR CREEK. WORKERS WILL ACCESS THE LOW FLOW CHANNEL ON FOOT.
 3. PUMP WILL BE AVAILABLE ON-SITE TO ADDRESS ANY UNINTENDED WATER INFILTRATION.
 4. COFFER DAM SHALL BE CONSTRUCTED OVER TEMPORARY HDPE DIVERSION GRAVITY PIPE. SACKS FILLED WITH 3/4" GRAVEL. COFFER DAM SHALL CONSIST OF NON-ERODIBLE MATERIAL THAT DOES NOT CONTAIN SOIL OR FINE SEDIMENT.
 5. COFFER DAM AND BIOLOGIST APPROVED BLOCK NET LOCATIONS SHALL BE DETERMINED BY BIOLOGIST ON SITE BEFORE START OF CONSTRUCTION.
 6. INSTALLATION OF TEMPORARY HDPE DIVERSION GRAVITY PIPE SHALL BE DONE THROUGH A PARALLEL TRENCH OR A WIDER TRENCH. TEMPORARY HDPE DIVERSION GRAVITY PIPE SHALL BE ALSO APPROPRIATELY SIZED.
 7. TO PREVENT EROSION AND SEDIMENTATION, THE ENERGY OF THE WATER DISCHARGED INTO CLEAR CREEK DOWNSTREAM OF THE WORK AREA WOULD BE DISSIPATED AND SEDIMENT WOULD BE FILTERED USING APPROPRIATE MEASURES, SUCH AS THE USE OF A SEDIMENT FILTERING BAG AT THE END OF THE DISCHARGE HOSE.
 8. DURING COFFER DAM INSTALLATION, THE UPSTREAM COFFER DAM WOULD BE INSTALLED FIRST AND THEN MOST OF THE DOWNSTREAM COFFER DAM WOULD BE CONSTRUCTED, BESIDES THE EXCEPTION OF AN OPENING LARGE ENOUGH FOR FISH PASSAGE. A QUALIFIED BIOLOGIST WOULD WALK FROM THE UPSTREAM COFFERDAM UPSTREAM WHILE CARRYING A BLOCK NET OR NETS IN ORDER TO ENCOURAGE FISH TO MOVE DOWNSTREAM AND OUT OF THE OPENING IN THE LOWER COFFER DAM. THE BLOCK NET WOULD BE POSITIONED TO PREVENT FISH FROM RE-ENTERING THE DE-WATERED AREA WHILE THE LOWER COFFER DAM FISH PASSAGE OPENING IS COMPLETED.
 9. IF WORK SITE IS TO BE TEMPORARILY DEWATERED BY PUMPING, INTAKES SHALL BE COMPLETELY SCREENED WITH WIRE MESH NOT LARGER THAN FIVE MILLIMETERS TO PREVENT CALIFORNIA RED-LEGGED FROGS FROM ENTERING THE PUMP SYSTEM.
 10. TEMPORARY RIGHT OF ENTRY DIMENSIONS ARE 50 FEET WIDE BY 210 FEET LONG. WITH 50 FEET WIDE BEING A 25 FEET OFFSET ON EACH SIDE OF CLEAR CREEK CENTERLINE.



		DESIGNED BY: ADG	60 INCH CULVERT REPLACEMENT PROJECT AT BEAR GULCH ROAD TEMPORARY CREEK DIVERSION PLAN		SCALE: NO SCALE
		CHECKED BY: AL			DATE: 06-09-2022
		DRAWN BY: ADG			FILE NO.: E5030
		ANN MADER STILLMAN, INTERIM DIRECTOR OF PUBLIC WORKS COUNTY SAN MATEO		555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063	
REVISION	DATE				
		FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES			
		0 1 2 3 4			
		SHEET 5 OF 6			

FILENAME: F:\USERS\DESIGN\CAD\E5030000_BEAR_GULCH\11.DWG\BEAR_GULCH.DWG (5)



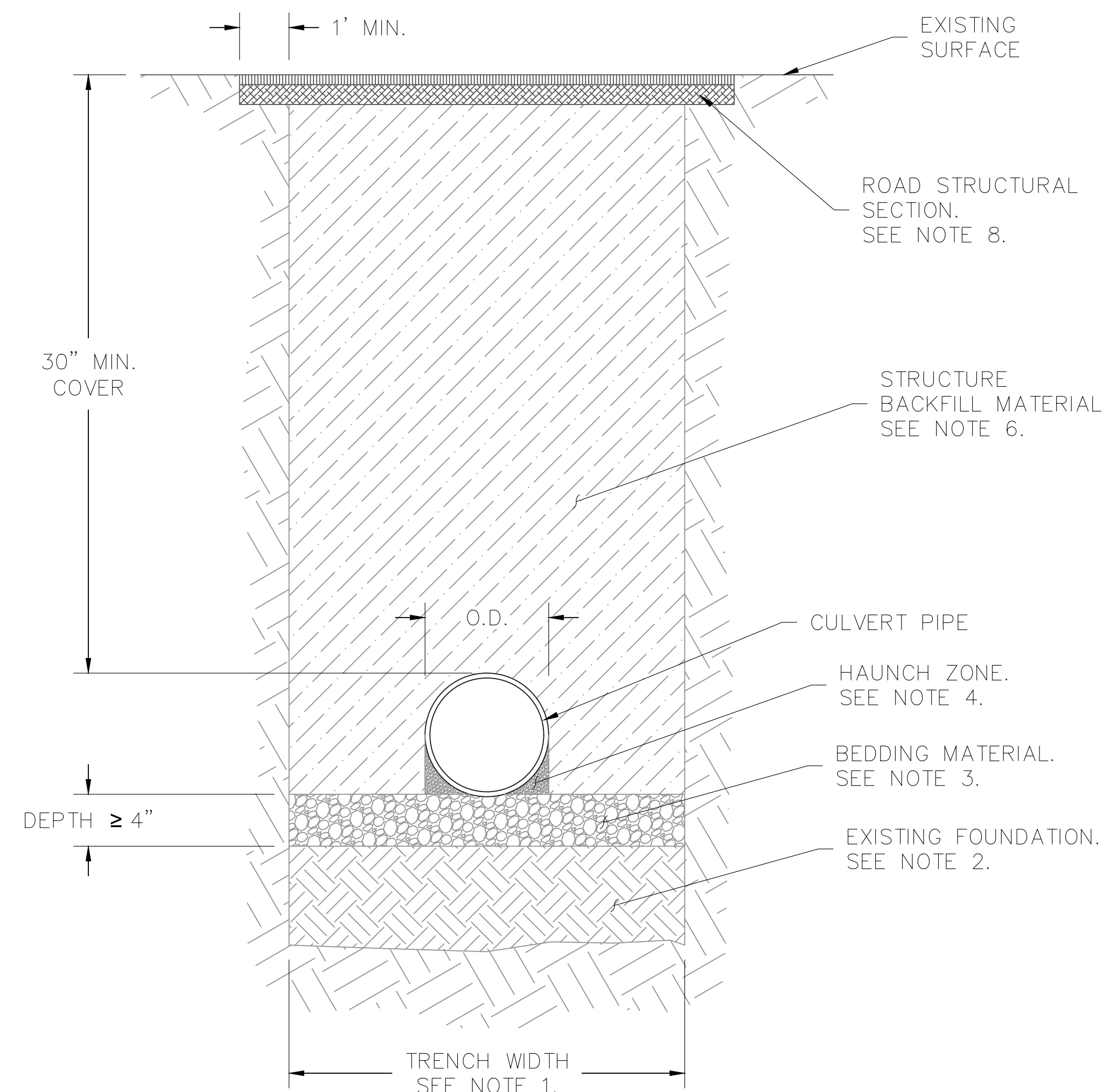
STANDARD ROAD STRUCTURE DETAIL

BEAR GULCH ROAD

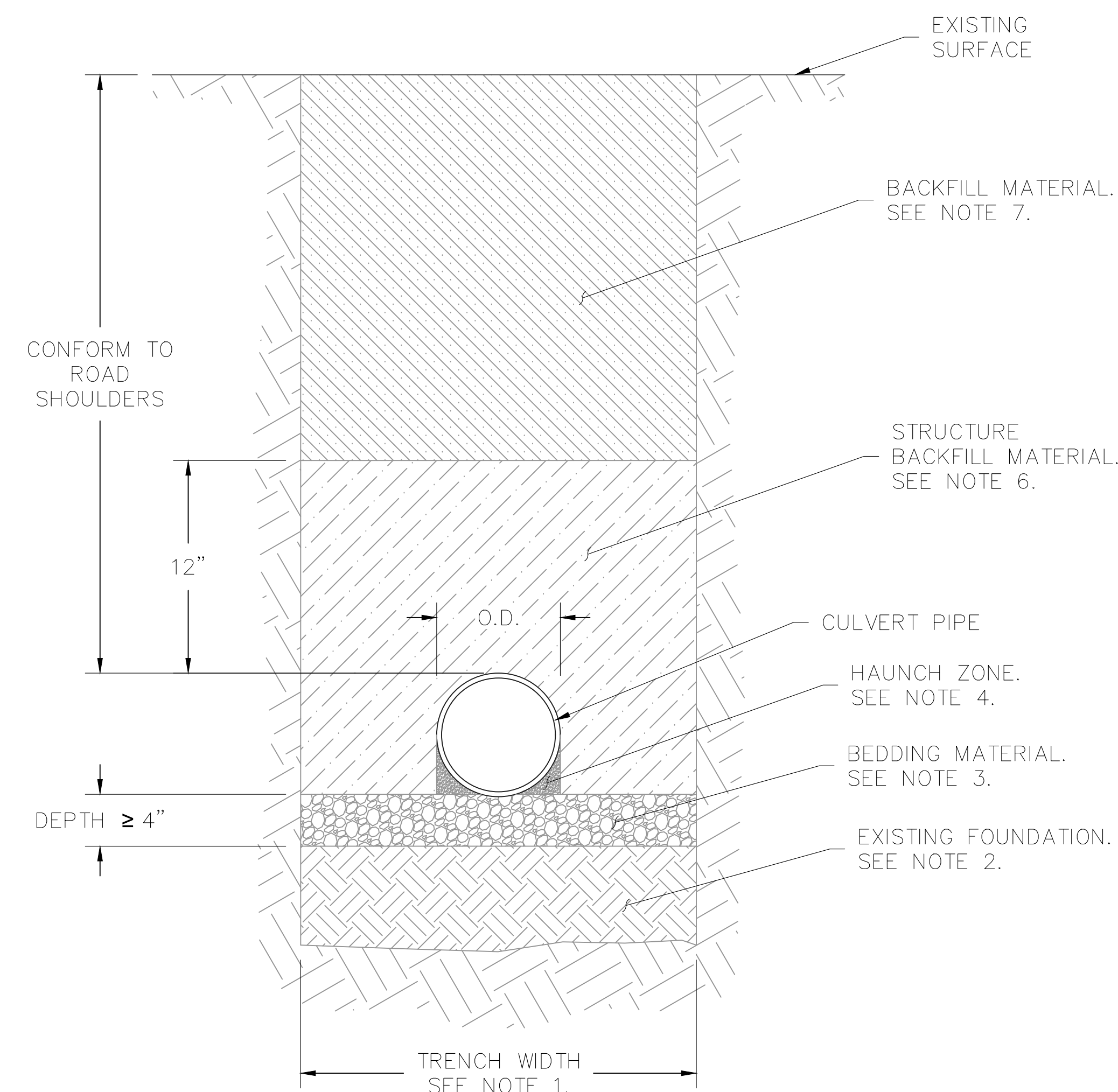
NOTES:

1. ROAD SLOPES TO CONFORM TO EXISTING ROAD CENTERLINE AND EDGE OF PAVEMENT.
2. STRUCTURAL ROAD SECTION SHALL BE COMPOSED OF MINIMUM 6" CLASS 2 AGGREGATE BASE AND MINIMUM 2.5" ASPHALT CONCRETE TYPE A, 1/2" MAXIMUM GRADING OVERLAY.
3. CLASS 2 AGGREGATE BASE AND ASPHALT CONCRETE OVERLAY SHALL BE COMPACTED TO A MINIMUM 95% RELATIVE COMPACTION.
4. ROAD SHOULDERS SHOULD HAVE A MAXIMUM 3:1 SLOPE.
5. PROPOSED PIPE CULVERT HEAD WALL AND WING WALL NOT SHOWN IN ROAD SECTION ABOVE.

<u>TABLE 1</u>	
<u>SIEVE SIZE</u>	<u>% PASSING SIEVES</u>
3"	100
NO. 4	35-100
NO. 30	20-100



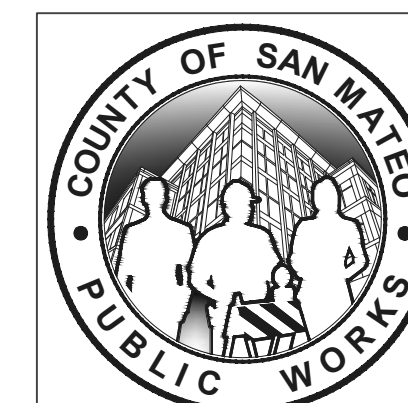
STANDARD TRENCH BACKFILL AND BEDDING DETAIL (IN ROADWAY)



STANDARD TRENCH BACKFILL AND BEDDING DETAIL (OUTSIDE ROADWAY)

NOTES:

1. MINIMUM TRENCH WIDTH MUST ALLOW ROOM FOR PROPER COMPACTION OF HAUNCH MATERIALS UNDER PIPE. MINIMUM WIDTH = $(1.25 \times \text{PIPE DIAMETER}) + 12"$.
2. EXISTING FOUNDATION SHALL BE COMPACTED TO MIN. 95% RELATIVE COMPACTION.
3. BEDDING MATERIAL SHALL BE A RELATIVELY LOOSE MATERIAL THAT IS ROUGHLY SHAPED TO FIT THE BOTTOM OF THE PIPE. 4" MINIMUM IN DEPTH.
4. HAUNCH ZONE MATERIAL SHALL BE HAND SHOVELED OR SHOVEL SLICED INTO PLACE TO ALLOW FOR PROPER COMPACTION.
5. THERE SHALL BE A MINIMUM OF 30" OF COVER OVER ALL PIPES AND CONDUITS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
6. STRUCTURE BACKFILL MATERIAL SHALL CONSIST OF SAND EQUIVALENT OF NOT LESS THAN 20 AND SIEVE GRADATION BY WEIGHT SHOWN IN TABLE 1. STRUCTURE BACKFILL MATERIAL SHALL BE COMPACTED TO MINIMUM 95% RELATIVE COMPACTION. LIFTS SHOULD BE DONE AT 6" MAXIMUM. STRUCTURE BACKFILL MATERIAL CAN ALSO BE LIGHT DENSITY BACKFILL SLURRY AT 100 PSI - 150 PSI.
7. BACKFILL MATERIAL CAN BE MATERIAL FROM EXCAVATION, FREE FROM STONES OR LUMPS EXCEEDING 3" IN GREATEST DIMENSION, ORGANIC MATERIAL, OR OTHER UNSATISFACTORY MATERIAL.
8. STRUCTURAL SECTION SHALL BE REPLACED WITH 6" CLASS II AGGREGATE BASE AND 2.5" ASPHALT CONCRETE TYPE A, 1/2" MAXIMUM GRADING OVERLAY.
9. TRENCH SAFETY AND SHORING SHALL BE PRESENT DURING CONSTRUCTION. TRENCH SHORING FOR EXCAVATIONS 5' OR GREATER SHALL BE DESIGNED BY A PROFESSIONAL LICENSED ENGINEER.



		DESIGNED BY: ADG		60 INCH CULVERT REPLACEMENT PROJECT AT BEAR GULCH ROAD STANDARD DETAILS (TRENCH/ROAD)	SCALE: NO SCALE		
		CHECKED BY: AL			DATE: 06-09-2022		
		DRAWN BY: ADG			FILE NO.: E5030		
		ANN MADER STILLMAN, INTERIM DIRECTOR OF PUBLIC WORKS COUNTY SAN MATEO			555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063		
REVISION	DATE						
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES				0 1 2 3 4		SHEET 6 OF 6	

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