

PLANS FOR CONSTRUCTION

BRIDGE PREVENTIVE MAINTENANCE PROGRAM

SCOUR MITIGATION AT VARIOUS LOCATIONS

FEDERAL PROJECT NO: BPMP-5942(240)

PROJECT LOCATIONS

- A LOS GATOS CREEK BRIDGE AT LOS GATOS CREEK ROAD (BR NO. 42C0459), 11.31 MILES WEST OF S. DERRICK BOULEVARD
- B LOS GATOS CREEK BRIDGE AT LOS GATOS CREEK ROAD (BR NO. 42C0458), 11.14 MILES WEST OF S. DERRICK BOULEVARD
- C LOS GATOS CREEK BRIDGE AT LOS GATOS CREEK ROAD (BR NO. 42C0455), 5.53 MILES WEST OF S. DERRICK BOULEVARD
- D FRESNO SLOUGH BRIDGE AT EXCELSIOR AVENUE (BR NO. 42C0104)
- E FRESNO SLOUGH OVERFLOW BRIDGE AT EXCELSIOR AVENUE (BR NO. 42C0367)
- F TRAVERS CREEK CULVERT AT ALTA AVENUE (BR NO. 42C0179)

A B C BASIS OF BEARINGS:
THE CALCULATED GRID BEARING BETWEEN NGS CORS STATIONS "P566" AND "P304", BEING N65°01'48"E, WAS TAKEN AS THE BASIS FOR ALL BEARINGS SHOWN HEREON.

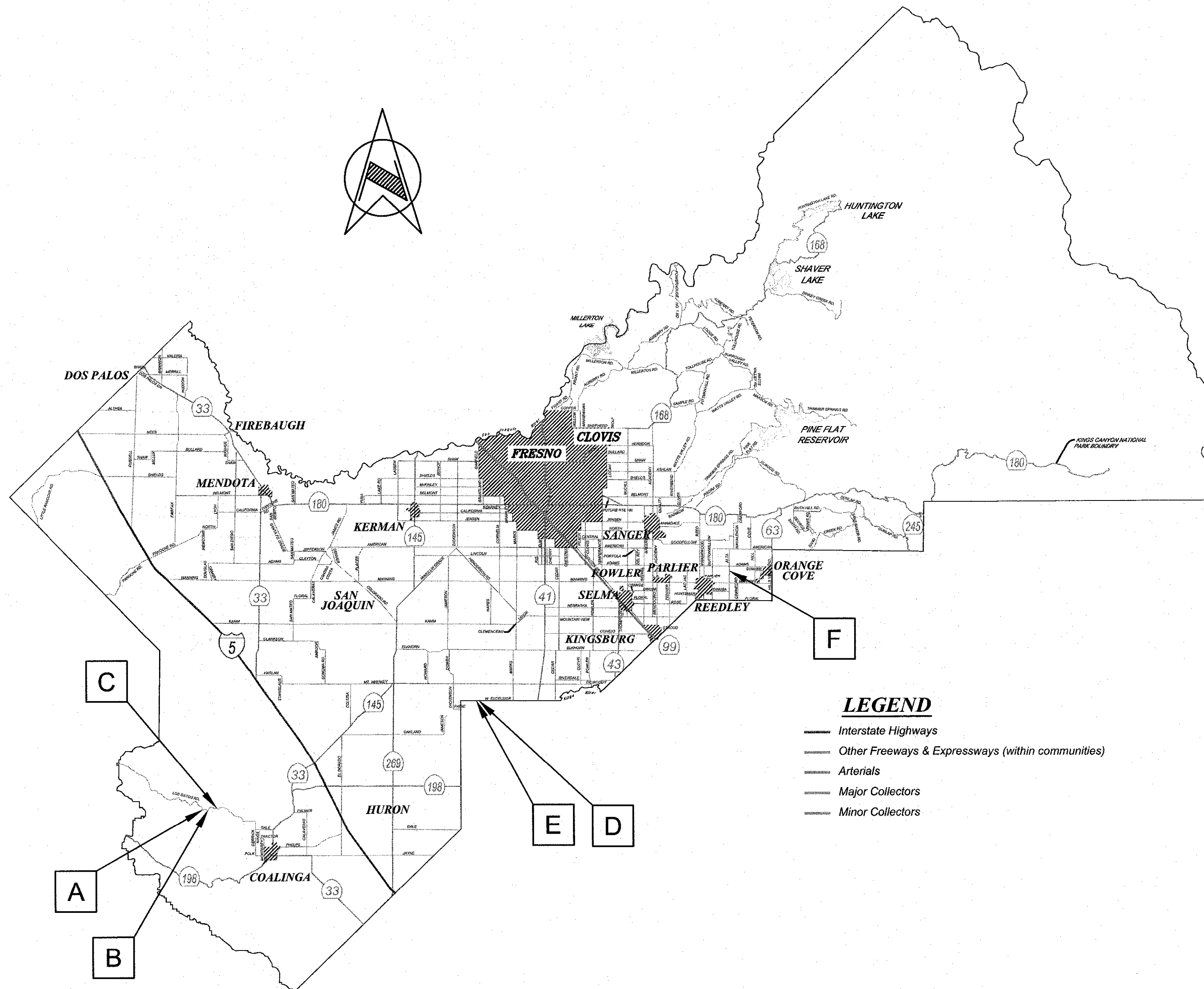
BENCH MARK:
THE HORIZONTAL DATUM FOR THIS SURVEY IS NAD83 (EPOCH DATE 2010.0), AS ESTABLISHED BY NGS CORS. ELEVATIONS SHOWN ARE BASED ON THE CITY OF FRESNO (NGVD29) VERTICAL DATUM. THE MAP PROJECTION FOR THIS SURVEY IS CALIFORNIA STATE PLANE ZONE 4, US SURVEY FEET.

D E BASIS OF BEARINGS:
THE NORTH LINE OF SECTION 5, TOWNSHIP 18 SOUTH, RANGE 19 EAST, M.D.B. & M. BEARS N88°44'57"E, PER MAP RECORDED IN BOOK 23, OF RECORD OF SURVEYS, AT PAGE 59, FRESNO COUNTY RECORDS.

BENCH MARK:
FRESNO COUNTY BENCHMARK OJ17, A FRESNO COUNTY BRASS CAP MONUMENT ON THE SOUTHEAST CORNER OF FRESNO SLOUGH BRIDGE DECK HAS AN NGVD29 ELEVATION OF 209.385 FEET PER FRESNO COUNTY BENCHMARK RECORDS.

F BASIS OF BEARINGS:
THE WEST LINE OF THE SOUTHWEST QUARTER OF SECTION 17, TOWNSHIP 15 SOUTH, RANGE 24 EAST, M.D.B. & M., HAS AN ASSUMED BEARING OF N0°00'01"E.

BENCH MARK:
FRESNO COUNTY BRASS CAP MONUMENT STAMPED LO 70, LOCATED ON THE SOUTHEAST CORNER OF ALTA AVENUE AND SUMNER ALIGNMENT, 48.8' SOUTHEAST OF THE SECTION CORNER, 2.0' SOUTH OF A POWER POLE, HAS AN NGVD29 ELEVATION OF 369.643' PER COUNTY OF FRESNO BENCHMARK RECORDS.



LEGEND

- Interstate Highways
- Other Freeways & Expressways (within communities)
- Arterials
- Major Collectors
- Minor Collectors

INDEX OF SHEETS

1. TITLE SHEET
2. GENERAL LEGEND AND GENERAL NOTES
- LOS GATOS CREEK BRIDGE AT LOS GATOS CREEK ROAD 11.31 MILES WEST OF S. DERRICK BLVD (BR NO. 42C0459)
 3. GENERAL PLAN
 4. FOUNDATION PLAN
 5. ROAD DETAILS
 6. FENCE DETAILS
- LOS GATOS CREEK BRIDGE AT LOS GATOS CREEK ROAD 11.14 MILES WEST OF S. DERRICK BLVD (BR NO. 42C0458)
 7. GENERAL PLAN
 8. FOUNDATION PLAN
 9. ROAD DETAILS
 10. FENCE DETAILS
- LOS GATOS CREEK BRIDGE AT LOS GATOS CREEK ROAD 5.53 MILES WEST OF S. DERRICK BLVD (BR NO. 42C0455)
 11. GENERAL PLAN
 12. FOUNDATION PLAN
 13. ROAD DETAILS
 14. FENCE DETAILS
- FRESNO SLOUGH BRIDGE AT EXCELSIOR AVENUE (BR NO. 42C0104)
 15. GENERAL PLAN
 16. FOUNDATION PLAN
 17. ROAD DETAILS
 18. STRUCTURE APPROACH TYPE R (10D)
- FRESNO SLOUGH OVERFLOW BRIDGE AT EXCELSIOR AVENUE (BR NO. 42C0367)
 19. GENERAL PLAN
 20. FOUNDATION PLAN
 21. ROAD DETAILS
 22. MISCELLANEOUS DETAILS
- TRAVERS CREEK CULVERT AT ALTA AVENUE (BR NO. 42C0179)
 23. GENERAL PLAN
 24. FOUNDATION PLAN
 25. MISCELLANEOUS DETAILS
- STAGING
 26. TEMPORARY WORK ZONE SIGNING - LOS GATOS CREEK ROAD
 27. TEMPORARY WORK ZONE SIGNING - EXCELSIOR AVENUE
- QUANTITIES
 28. SUMMARY OF QUANTITIES

CONTRACTOR'S LICENSING REQUIREMENT					
CLASS A, GENERAL ENGINEERING					
C-12, EARTHWORK AND PAVING					
Drawing No.	Road No.	Bridge No.	Fiscal Yr.	Sheet No.	Total
11259	N/A	SEE PROJECT LOCATIONS	25/26	1	28
CONTRACT NO 25-17-M					

RECORD DRAWING	
CONTRACTOR	
NAME	
ADDRESS	
CITY	STATE ZIP
PHONE	
DATE AWARDED	
DATE STARTED	
DATE COMPLETED	
RESIDENT ENGINEER	
NAME	SIGNATURE
NAME	SIGNATURE



DEPARTMENT OF PUBLIC WORKS AND PLANNING

Brian Pacheco Chairman 1st District
 Garry Bredefeld Vice Chairman 2nd District
 Luis Chavez 3rd District
 Ernest "Buddy" Mendes 4th District
 Nathan Magsig 5th District

Paul Nerland
 County Administration Officer

APPROVED _____
 Steven White, Director
 Department of Public Works and Planning

ABBREVIATIONS:

AB	AGGREGATE BASE	MP	MILE POST
ABUT	ABUTMENT(S)	MTL	MATERIAL
AC	ASPHALTIC CONCRETE	NBL	NORTHBOUND LANE
ALIGN	ALIGNMENT	NS	NATIVE SOIL
AP	ANGLE POINT	OC	ON CENTER
APPROX	APPROXIMATE	OG	ORIGINAL GROUND
AS	AGGREGATE SUBBASE	PB	PULL BOX
BB	BEGINNING OF BRIDGE	PBS	PULVERIZED BITUMINOUS SURFACE
BC	BEGIN HORIZONTAL CURVE	PE	POLYETHYLENE
BCM	BRASS CAP MONUMENT	PCC	PORTLAND CEMENT CONCRETE
BCR	BEGIN CURB RETURN	PERM	PERMEABLE
BD	BEGIN DITCH	PG	PROFILE GRADE
BIT	BITUMINOUS	PI	POINT OF INTERSECTION
BKF	BACKFILL	PL, R	PLATE
BM	BENCH MARK	P/L	PROPERTY LINE
BR	BRIDGE	POC	POINT ON CURVE
BVC	BEGIN VERTICAL CURVE	POT	POINT ON TANGENT
BW	BARBED WIRE	PP	POWER POLE
CF	CUBIC FEET	PPP	PERFORATED PLASTIC PIPE
CFS	CUBIC FEET PER SECOND	PRF	PAVEMENT REINFORCING FABRIC
C&G	CURB AND GUTTER	PT	PEDESTAL TELEPHONE
CIP	CAST IRON PIPE	PNT	POINT
C/L, C	CENTER LINE	PULV	PULVERIZED
CL	CHAIN LINK	PVC	POLYVINYL CHLORIDE
CLR	CLEAR	PVMT	PAVEMENT
CIP	CAST IRON PIPE	RCB	REINFORCED CONCRETE BOX
CMP	CORRUGATED METAL PIPE	RCP	REINFORCED CONCRETE PIPE
COL	COLUMN	REINF	REINFORCEMENT
CONC	CONCRETE	R&D	REMOVE AND DISPOSE
CS	COTTON SPINDLE	REL	RELOCATE
CSP	CONCRETE SLOPE PROTECTION	RES	RESIDENTIAL
CATV	CABLE TELEVISION	RET	RETAINING
CULV	CULVERT	RG	RUBBER GASKET
CY	CUBIC YARD(S)	RLG	ROCK LINED GUTTER
DI	DRAINAGE INLET	RMS	ROAD MIX SURFACE
DO	DRAINAGE OUTLET	R&S	REMOVE AND SALVAGE
DRWY	DRIVEWAY	RSP	ROCK SLOPE PROTECTION, REVISED STANDARD PLAN
EASE	EASEMENT	RTE	ROUTE
EB	END OF BRIDGE	R/W	RIGHT OF WAY
EBL	EAST BOUND LANE	RW	RETAINING WALL
EC	END HORIZONTAL CURVE	SL	SLOPE
ECR	END OF CURB RETURN	SBL	SOUTHBOUND LANE
ED	END DITCH	SEC	SECTION
ELEV	ELEVATION	SR	STATE ROUTE
EMB	EMBANKMENT	SHR	SHOULDER
EP	EDGE OF PAVEMENT	S/L	SECTION LINE
EPS	EDGE OF PAVED SHOULDER	SP	STANDPIPE
ETL	EDGE OF TRAVELED LANE	STA	STATION
EVC	END VERTICAL CURVE	STD	STANDARD
EXC	EXCAVATION	STR	STRUCTURE
(E)	EXISTING	SURF	SURFACING
EXP	EXPANSION JOINT	SDWK	SIDEWALK
FCBCM	FRESNO COUNTY BCM	SWR	SEWER
FCBM	FRESNO COUNTY BM	TAN	TANGENT
FG	FINISHED GRADE	TAN OFF	TANGENT OFFSET
FH	FIRE HYDRANT	TBM	TEMPORARY BENCHMARK
FL	FLOW LINE	TBR	TO BE REMOVED
GALV	GALVANIZED	TC	TOP OF CURVE
GP	GRADING PLANE	TD	TOP OF DIKE
GR	GUARD RAILING	TOB	TOP OF BANK
GW	GUY WIRE	TCB	TRAFFIC CONTROL BOX
HMA	HOT MIXED ASPHALT	TRANS	TRANSITION
HP	HINGE POINT	TS	TRAFFIC SIGNAL
HS	HIGH STRENGTH	TYP	TYPICAL
HW	HEAD WALL	UC	UNDERCROSSING
HWM	HIGH WATER MARK	UG	UNDERGROUND
IB	IMPORTED BORROW	UD	UNDERDRAIN
IP	IRON PIPE	UDR	UNDERDRAIN RISER
IRR	IRRIGATION	UP	UNDERPASS
IV	IRRIGATION VALVE	VC	VERTICAL CURVE
JP	JOINT POLE	VCP	VITRIFIED CLAY PIPE
JT	JOINT	VG	VALLEY GUTTER
LF	LINEAR FEET	VP	VENTPIPE
LOC	LOCATION	WBL	WESTBOUND LANE
LOL	LAYOUT LINE	WP	WEAKENED PLANE
LP	LIMIT OF PAYMENT	WV	WATER VALVE
MAX	MAXIMUM	WW	WINGWALL
MIN	MINIMUM	XING	CROSSING
MB	METAL BEAM	X SEC	CROSS SECTION
MBGR	METAL BEAM GUARD RAILING		
MH	MANHOLE		

APPLICABLE 2015 STATE OF CALIFORNIA CALTRANS STANDARD PLANS:

RSP A20A	PAVEMENT MARKERS AND TRAFFIC LINES - TYPICAL DETAILS
A86	BARBED WIRE AND WIRE MESH FENCES
A86A	BARBED WIRE AND WIRE MESH FENCE DETAIL ON SHARP BREAK IN GRADE
A86B	BARBED WIRE AND WIRE MESH FENCE DETAILS
A86D	BARBED WIRE AND WIRE MESH FENCE - MISCELLANEOUS DETAILS
RSP A87B	HOT MIX ASPHALT DIKES
RSP T13	TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON TWO LANE CONVENTIONAL HIGHWAYS
B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")

LINETYPE LEGEND

LINETYPE EXAMPLE	LINETYPE DESCRIPTION
x - - - - - x - - - - - x -	BARBED WIRE FENCE
o - - - - - o - - - - - o -	CHAIN LINK FENCE
- [] - - - - - [] - - - - - [] -	WOODEN FENCE
[] - - - - - [] - - - - - [] -	METAL FENCE
- - - - - LNDSCP - - - - - LNDSCP - - - - -	EDGE OF LANDSCAPED AREA
- - - - - - - - -	RAILROAD TRACKS
- - - - -	SECTION LINES
- - - - - ALIGN-E	EXISTING ALIGNMENT
- - - - -	AC CENTERLINE - EXISTING
- - - - -	AC CROWN - EXISTING
- - - - -	EXISTING YELLOW STRIPED LINES
- - - - -	EXISTING WHITE STRIPED LINE
- - - - -	AC GRADE BREAK - EXISTING
- - - - -	AC EDGE OF PAVEMENT - EXISTING
- - - - - TOE	TOE OF THE SLOPE
- - - - - AC-DRV	AC - EDGE OF DRIVEWAY
- - - - - DRT-DRV	DIRT - EDGE OF DRIVEWAY
- - - - - GRV-DRV	GRAVEL - EDGE OF DRIVEWAY
- - - - - CONC-DRV	CONCRETE - EDGE OF DRIVEWAY
- - - - - CMP	CORRUGATED METAL PIPE
- - - - - HDPE	HIGH DENSITY POLYETHYLENE
- - - - - STP	STEEL PIPE
- - - - - PVC	POLYVINYL CHLORIDE
- - - - - P-R/W	PRESCRIPTIVE RIGHT OF WAY
- - - - - P/L	PROPERTY LINE
- - - - - R/W	RIGHT OF WAY
- - - - - R/W-P	RIGHT OF WAY - PROPOSED
- - - - - W	WATER LINES
- - - - - IRR	IRRIGATION LINE
- - - - - SD	STORM DRAIN
- - - - - S	SEWER LINE
- - - - - FLOW	MISC FLOW LINE
- - - - - GFL	GUTTER FLOW LINE
- - - - - CONC	EDGE OF CONCRETE STRUCTURES
- - - - - TFC	TOP FACE OF CURB
- - - - - SDWK	EDGE OF CONCRETE SIDEWALK
- - - - - E	UNDERGROUND ELECTRIC
- - - - - T	UNDERGROUND TELEPHONE
- - - - - FO	FIBER OPTIC
- - - - - G	GAS LINE
- - - - - OHCATV	OVERHEAD CABLE TELEVISION
- - - - - OHE	OVERHEAD ELECTRIC
- - - - - OHT	OVERHEAD TELEPHONE
- - - - - CATV	UNDERGROUND CABLE TELEVISION
- - - - -	PROFILE STYLE - EXISTING GROUND
- - - - - D	PROFILE STYLE - DESIGN
- - - - -	DESIGN ALIGNMENT
- - - - - ETL	EDGE OF THE TRAVELED LANE
- - - - - EP-D	EDGE OF PAVEMENT - DESIGN
- - - - - HP	HINGE POINT LINE
- - - - - DYLT	DAYLIGHTING LINE
- - - - -	EXISTING STRUCTURE

GENERAL DESIGN NOTES

DESIGN:

DESIGN OF ROCK SLOPE PROTECTION IS PER THE FEDERAL HIGHWAY ADMINISTRATION HYDRAULIC ENGINEERING CIRCULAR 23 "BRIDGE SCOUR AND STREAM INSTABILITY COUNTERMEASURES EXPERIENCE, SELECTION, AND DESIGN GUIDANCE", THIRD EDITION, DATED SEPTEMBER 2009 AND THE CALTRANS "CALIFORNIA BANK AND SHORE ROCK SLOPE PROTECTION DESIGN - PRACTITIONER'S GUIDE AND FIELD EVALUATIONS OF RIPRAP METHODS", THIRD EDITION, DATED OCTOBER 2000.

UTILITY NOTES:

LOCATIONS FOR EXISTING UNDERGROUND FACILITIES ARE APPROXIMATE. EXACT DEPTH AND LOCATIONS ARE UNKNOWN. FIELD LOCATE PRIOR TO THE START OF CONSTRUCTION.

**CALL UNDERGROUND SERVICE ALERT (USA) 811

GENERAL NOTES:

1. DIMENSIONS SHOWN ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

SYMBOL LEGEND

SYMBOL	BLOCK DESCRIPTION	SYMBOL	BLOCK DESCRIPTION (EXISTING)	SYMBOL	BLOCK DESCRIPTION (INSTALL NEW)
△	SECTION CORNER	(W)	WATER MANHOLE	(W)	WATER MANHOLE
⊕	BENCHMARK	(FH)	FIRE HYDRANT	(FH)	FIRE HYDRANT
⊙	SURVEY CONTROL POINT	(W)	WATER METER	(W)	WATER METER
○	PROPERTY CORNER OR RW MONUMENT	(W)	WATER VALVE	(W)	WATER VALVE
+	FLIGHT TARGET AT SECTION CORNER	(W)	WATER VAULT	(W)	WATER VAULT
+	FLIGHT TARGET AT P LINE STATION	(W)	WATER WELL PAD	(W)	WATER WELL PAD
+	FLIGHT TARGET AT P LINE ANGLE POINT		BUTTERFLY OR GATE VALVE		BUTTERFLY OR GATE VALVE
✿	MISCELLANEOUS PALM TREE	(EM)	ELECTRIC MOTOR WATER WELL PAD	(EM)	ELECTRIC MOTOR WATER WELL PAD
✿	MISCELLANEOUS TREE	(DM)	DIESEL MOTOR WATER WELL PAD	(DM)	DIESEL MOTOR WATER WELL PAD
✿	MISCELLANEOUS TREE	(CIB)	CONCRETE IRRIGATION TURNOUT BOX	(CIB)	CONCRETE IRRIGATION TURNOUT BOX
✿	MISCELLANEOUS BUSH	(CIS)	CONCRETE IRRIGATION STANDPIPE	(CIS)	CONCRETE IRRIGATION STANDPIPE
✿	MISCELLANEOUS BUSH	(SIP)	STEEL OR PVC IRRIGATION VENTPIPE	(SIP)	STEEL OR PVC IRRIGATION VENTPIPE
✿	MISCELLANEOUS VINE	(SPV)	SPRINKLER VALVES / CONTROL BOXES	(SPV)	SPRINKLER VALVES / CONTROL BOXES
✿	MISCELLANEOUS STUMP	(SD)	STORM DRAIN MANHOLE	(SD)	STORM DRAIN MANHOLE
⊗	STEEL IRRIGATION SCREW GATE		STORM DRAIN INLET		STORM DRAIN INLET
⊗	STEEL IRRIGATION INLET SCREEN	(S)	SEWER MANHOLE	(S)	SEWER MANHOLE
⊗	ELECTRIC TRANSMISSION TOWER	(S)	SEWER VAULT	(S)	SEWER VAULT
		(ET)	ELECTRIC TRANSFORMER PAD	(ET)	ELECTRIC TRANSFORMER PAD
		(EV)	ELECTRIC VAULT	(EV)	ELECTRIC VAULT
		(EMH)	ELECTRIC MANHOLE	(EMH)	ELECTRIC MANHOLE
		(UEWP)	UNDERGROUND ELECTRIC WARNING POST	(UEWP)	UNDERGROUND ELECTRIC WARNING POST
		(PP)	POWER POLE	(PP)	POWER POLE
		(JP)	JOINT POLE	(JP)	JOINT POLE
		(EM)	ELECTRIC METER	(EM)	ELECTRIC METER
		(JTP)	JOINT TRANSFORMER POLE	(JTP)	JOINT TRANSFORMER POLE
		(GW)	GUY POLE	(GW)	GUY POLE
		(GW)	GUY WIRE	(GW)	GUY WIRE
		(SP)	SERVICE POLE	(SP)	SERVICE POLE
		(TP)	TRANSFORMER POLE	(TP)	TRANSFORMER POLE
		(GM)	GAS METER	(GM)	GAS METER
		(GV)	GAS VAULT	(GV)	GAS VAULT
		(GV)	GAS VALVE	(GV)	GAS VALVE
		(GMH)	GAS MANHOLE	(GMH)	GAS MANHOLE
		(UGGWP)	UNDERGROUND GAS WARNING POST	(UGGWP)	UNDERGROUND GAS WARNING POST
		(FOM)	FIBER OPTIC MANHOLE	(FOM)	FIBER OPTIC MANHOLE
		(TPD)	TELEPHONE PEDESTAL	(TPD)	TELEPHONE PEDESTAL
		(UFWOP)	UNDERGROUND FIBER OPTIC WARNING POST	(UFWOP)	UNDERGROUND FIBER OPTIC WARNING POST
		(FIV)	FIBER OPTIC VAULT	(FIV)	FIBER OPTIC VAULT
		(TV)	TELEPHONE VAULT	(TV)	TELEPHONE VAULT
		(TMH)	TELEPHONE MANHOLE	(TMH)	TELEPHONE MANHOLE
		(UTWP)	UNDERGROUND TELEPHONE WARNING POST	(UTWP)	UNDERGROUND TELEPHONE WARNING POST
		(TP)	TELEPHONE POLE	(TP)	TELEPHONE POLE
		(PB)	VARIOUS PULL BOXES	(PB)	VARIOUS PULL BOXES
		(SLP)	STREET LIGHT POLE	(SLP)	STREET LIGHT POLE
		(TLP)	TRAFFIC LIGHT POLE	(TLP)	TRAFFIC LIGHT POLE
		(STS)	MISC TRAFFIC SIGNS	(STS)	MISC TRAFFIC SIGNS
		(SS)	STOP SIGN	(SS)	STOP SIGN
		(RCA)	RAILROAD CROSSING AHEAD SIGN	(RCA)	RAILROAD CROSSING AHEAD SIGN
		(TSL)	TURN SIGNAL LOOP DETECTOR	(TSL)	TURN SIGNAL LOOP DETECTOR
		(RCA)	RAILROAD CROSSING ARM	(RCA)	RAILROAD CROSSING ARM
		(CB)	SIGNAL CONTROL BOX PAD	(CB)	SIGNAL CONTROL BOX PAD

HATCHING LEGEND

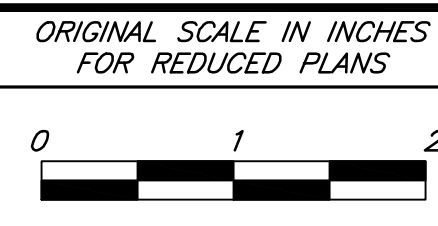
HATCH	HATCH DESCRIPTION
(Pattern)	RSP (1/4 TON, CLASS V, METHOD B) OR RSP (150 Lb, CLASS III, METHOD B)
(Pattern)	RSP (20 Lb, CLASS I, METHOD B)
(Pattern)	REMOVE SLOPE PAVING
(Pattern)	REMOVE AND REPLACE HMA
(Pattern)	3" HMA OVER COMPACTED NATIVE SOIL
(Pattern)	COLD PLANE AND PLACE HMA OVERLAY
(Pattern)	RE-GRADED DRIVEWAY

CALLOUTS AND MISC SYMBOLS

(Symbol)	CALTRANS STANDARD SHEET NUMBER
(Symbol)	DETAIL NUMBER
(Symbol)	(STATE STANDARD PLANS)
(Symbol)	SECTION CUT

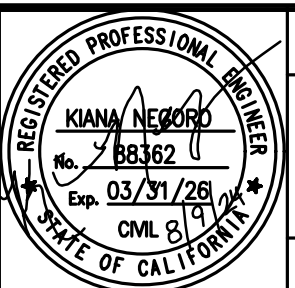
Drawing name: H:\213544_BPMP_Fresno_County\GENERAL LEGEND.dwg Layout Tab: LG1 Sep 11, 2024 - 9:30am OBatchuluun

DESIGNED: K. NEGORO	DATE: 11-30-17
DRAWN: O. BATCHULUUN	DATE: 07-29-24
CHECKED: M. CHRISTENSEN	DATE: 09-10-24



TRC 8050 North Palm Ave., Suite 300
Fresno, California 93711

MARK IMBRIANI
SUPERVISING ENGINEER: 09-10-24
DATE:



PROJECT
BPMP SCOUR MITIGATION AT VARIOUS LOCATIONS

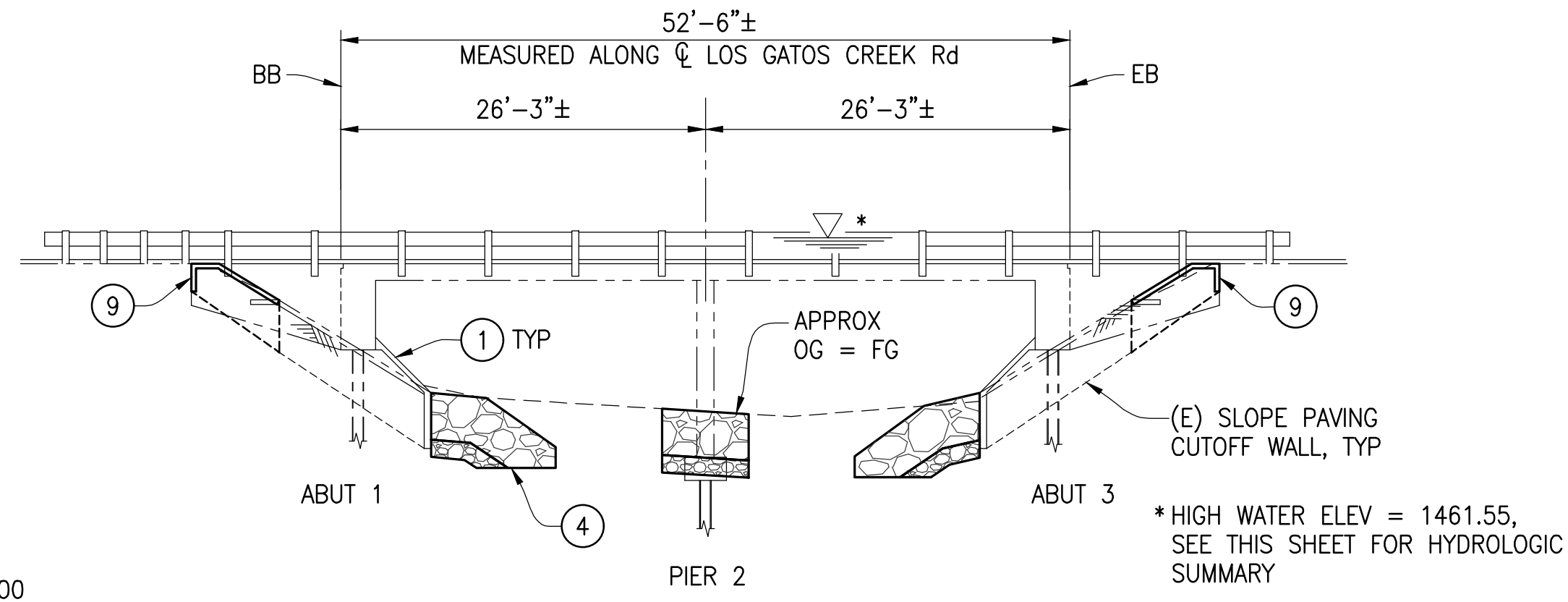
ROAD NO. BRIDGE NO.



DEPARTMENT OF PUBLIC WORKS AND PLANNING

GENERAL LEGEND AND GENERAL NOTES

DRAWING NO. 11259 SHEET NO. 2 TOTAL 28

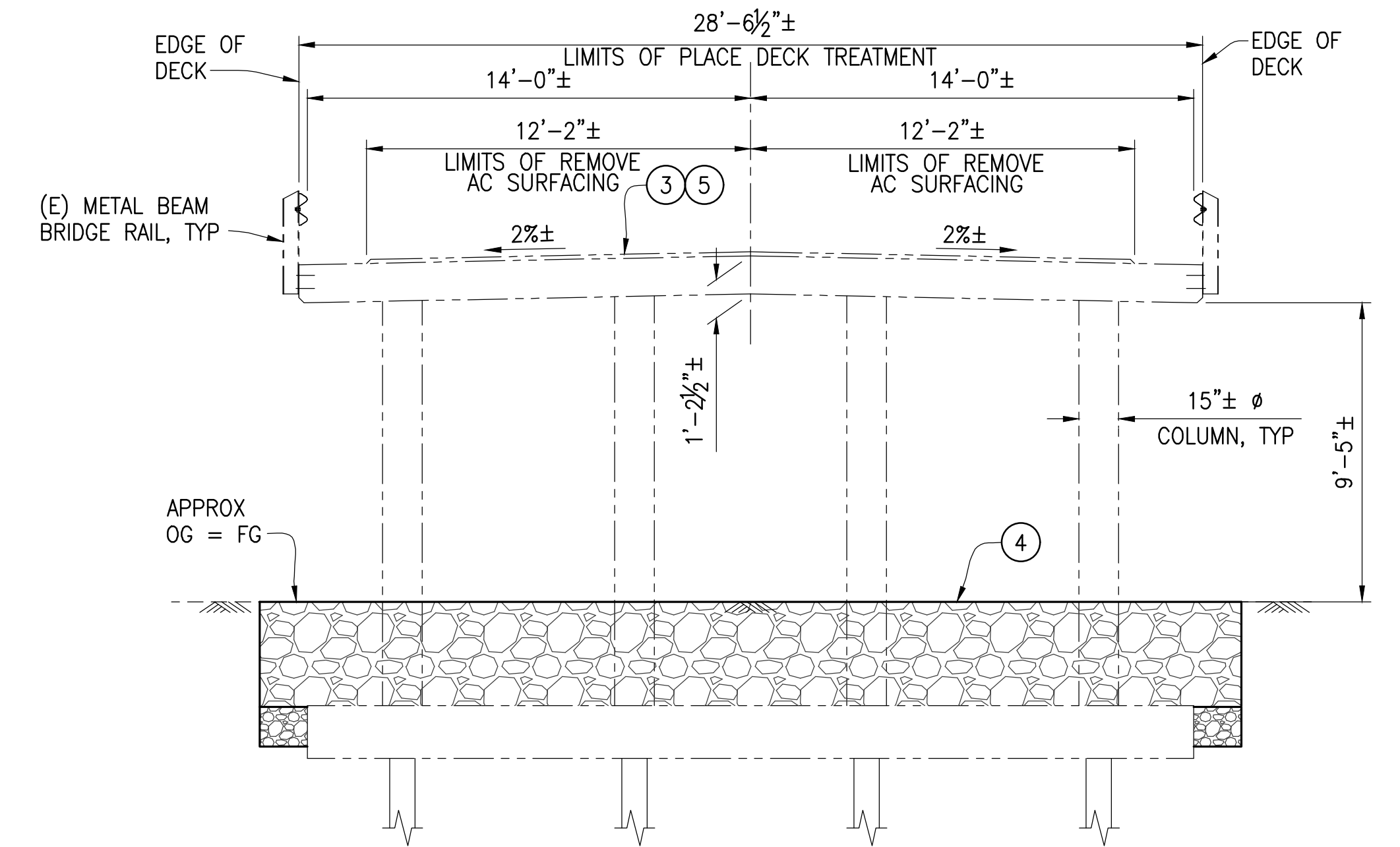


DATUM ELEV 1435.00



ELEVATION LOOKING SOUTH

CL LOS GATOS CREEK Rd

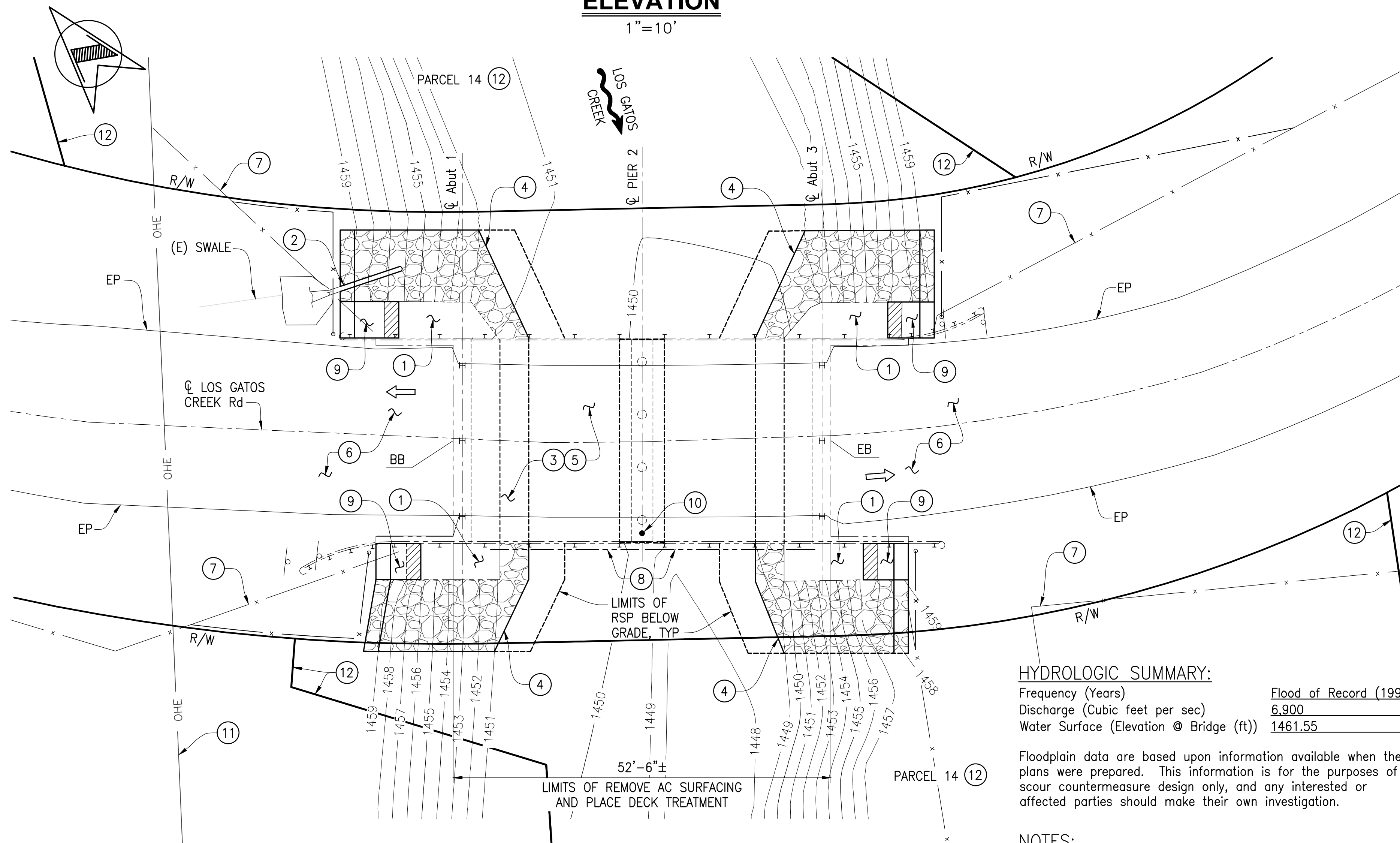


TYPICAL SECTION

1/4"=1'-0"

LEGEND:

- ➔ Indicates Direction of Traffic
- Indicates Existing Structure
- ① Existing Concrete Slope Protection to remain
- ② Reconstruct Downdrain Flume, see "ROAD DETAILS" sheet
- ③ Remove 3"± thick AC surfacing from bridge deck
- ④ Rock Slope Protection
- ⑤ Place Deck Treatment
- ⑥ Remove and Place HMA to match bridge deck, see "ROAD DETAILS" sheet
- ⑦ Remove Barbed Wire Fence to gain access to channel, see "FENCE DETAILS" sheet
- ⑧ Remove Livestock Guard
- ⑨ Concrete (Slope Protection) Extension
- ⑩ Stream Gage to be protected in place
- ⑪ Existing PG&E overhead electrical to remain
- ⑫ Right of Way Acquisition



ELEVATION

1"=10'

PLAN

1"=10'

HYDROLOGIC SUMMARY:

Frequency (Years)	Flood of Record (1995)
Discharge (Cubic feet per sec)	6,900
Water Surface (Elevation @ Bridge (ft))	1461.55

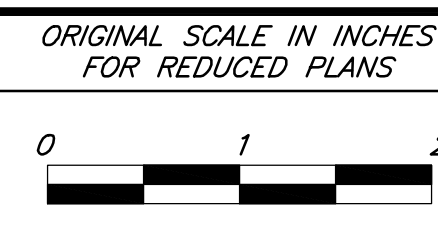
Floodplain data are based upon information available when the plans were prepared. This information is for the purposes of scour countermeasure design only, and any interested or affected parties should make their own investigation.

NOTES:

- For GENERAL NOTES, see "GENERAL LEGEND AND GENERAL NOTES" sheet.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

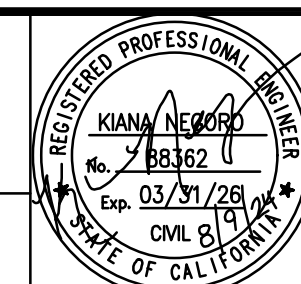
DESIGNED: K. NEGORO	DATE: 11-30-17
DRAWN: G. IMBSEN	DATE: 02-27-20
CHECKED: M. CHRISTENSEN	DATE: 09-10-24



TRC 8050 North Palm Ave., Suite 300
Fresno, California 93711

MARK IMBRIANI
SUPERVISING ENGINEER

09-10-24
DATE:



PROJECT
BPMP SCOUR MITIGATION
AT VARIOUS LOCATIONS

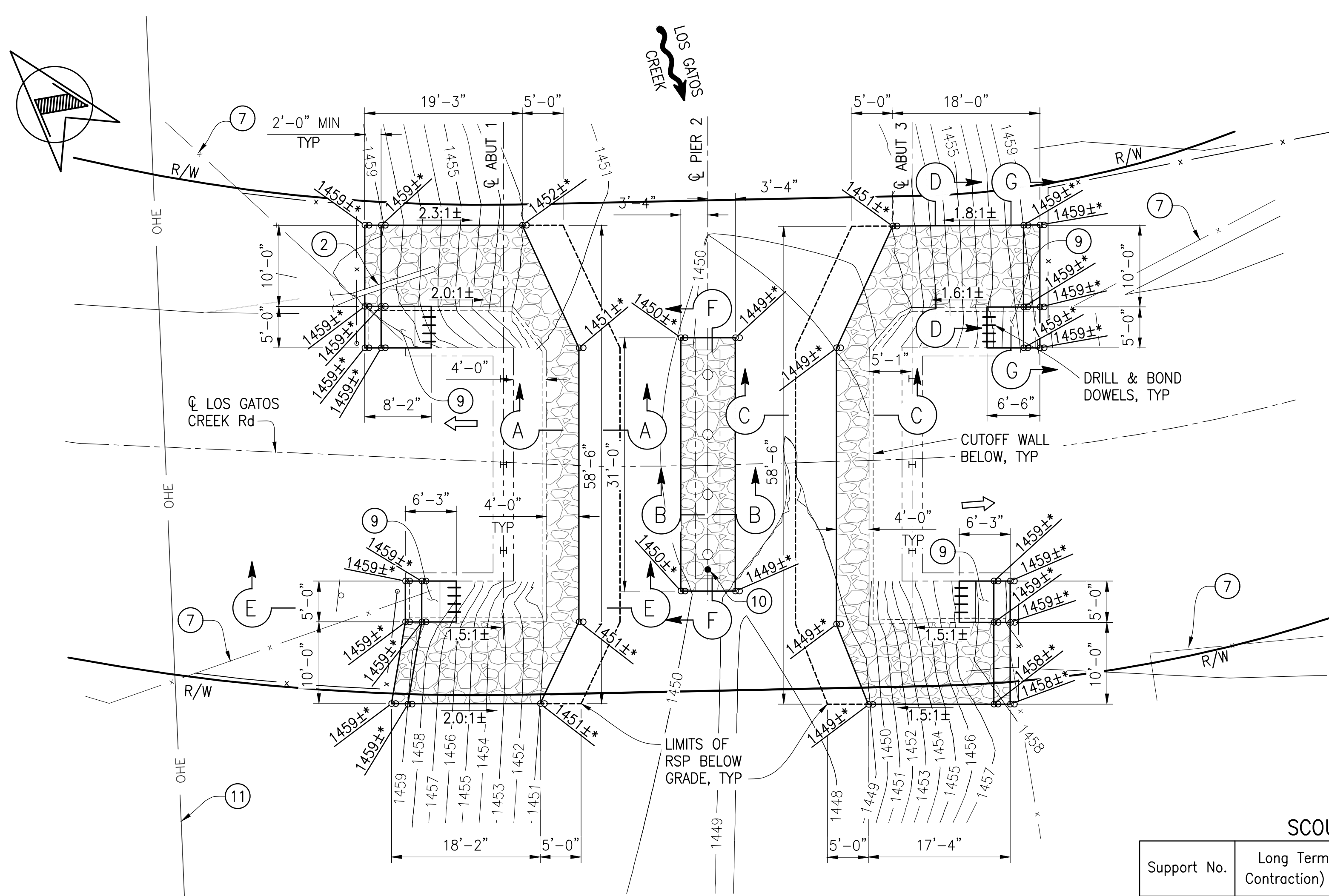
ROAD NO. BRIDGE NO. 42C0459



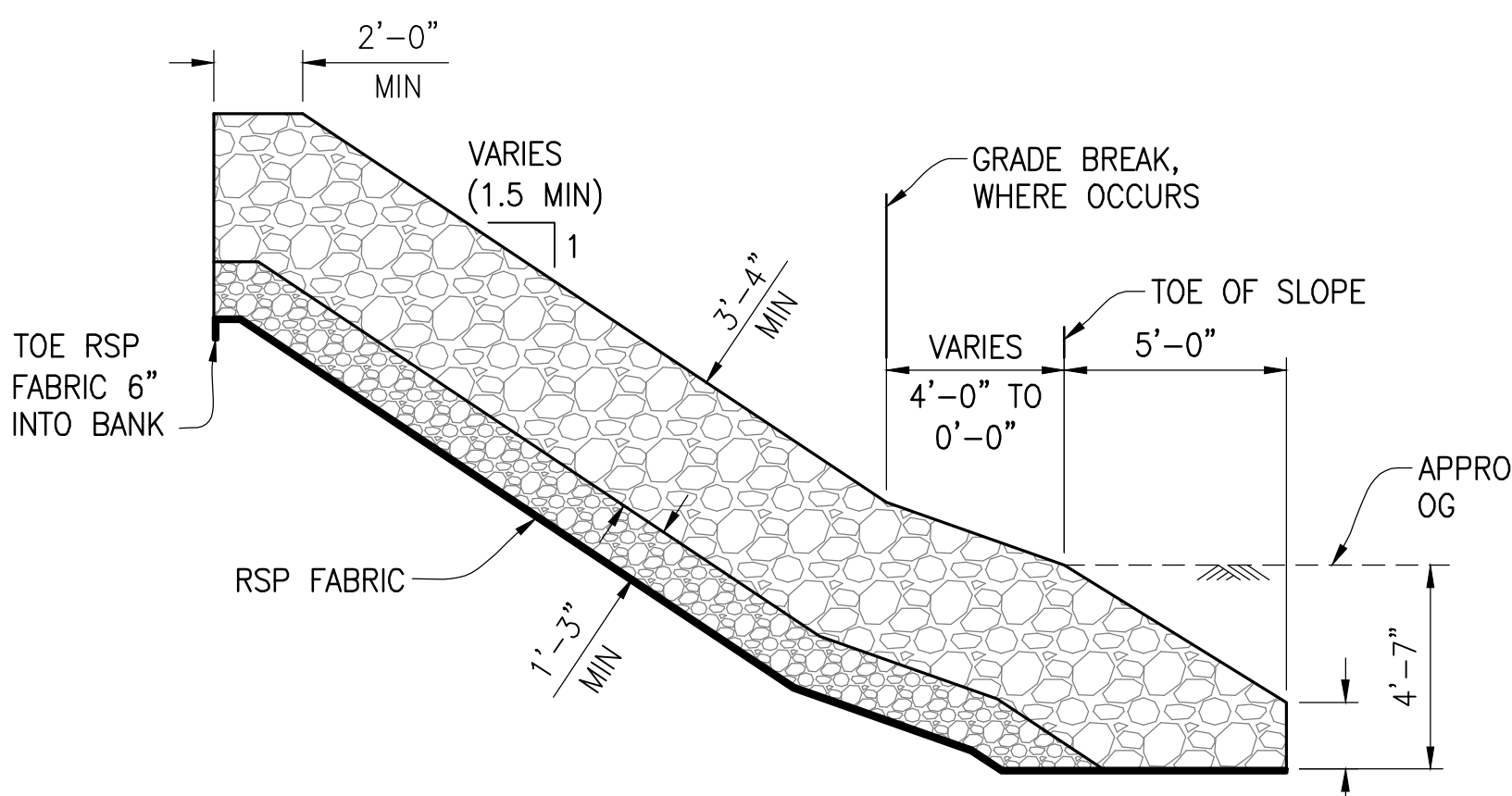
DEPARTMENT OF PUBLIC WORKS AND PLANNING

GENERAL PLAN
LOS GATOS CREEK BRIDGE AT LOS GATOS CREEK ROAD
(11.31 MILES WEST OF S. DERRICK BLVD)

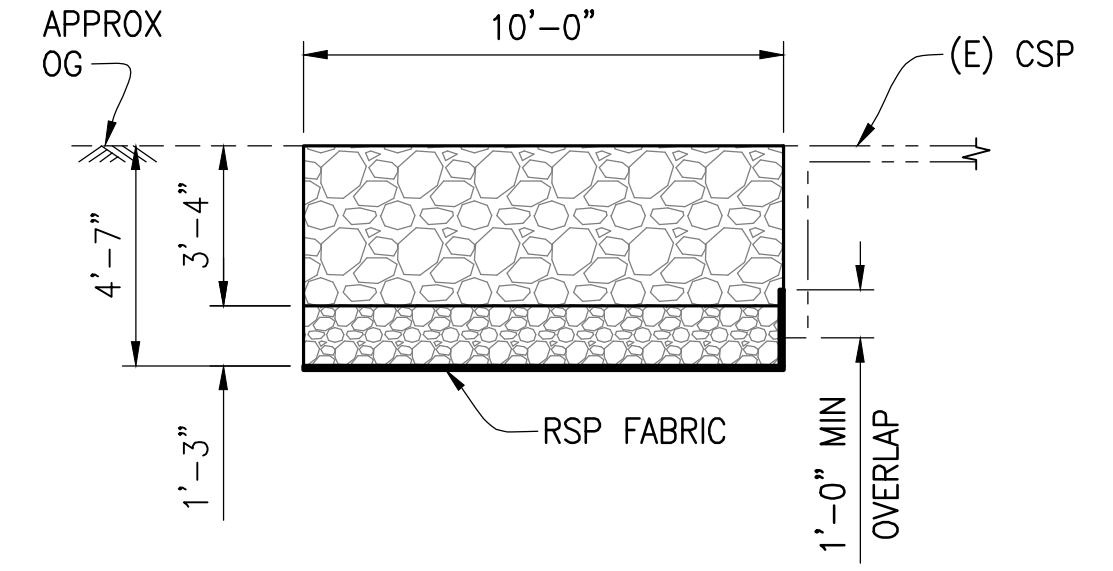
DRAWING NO. 11259 SHEET NO. 3 TOTAL 28



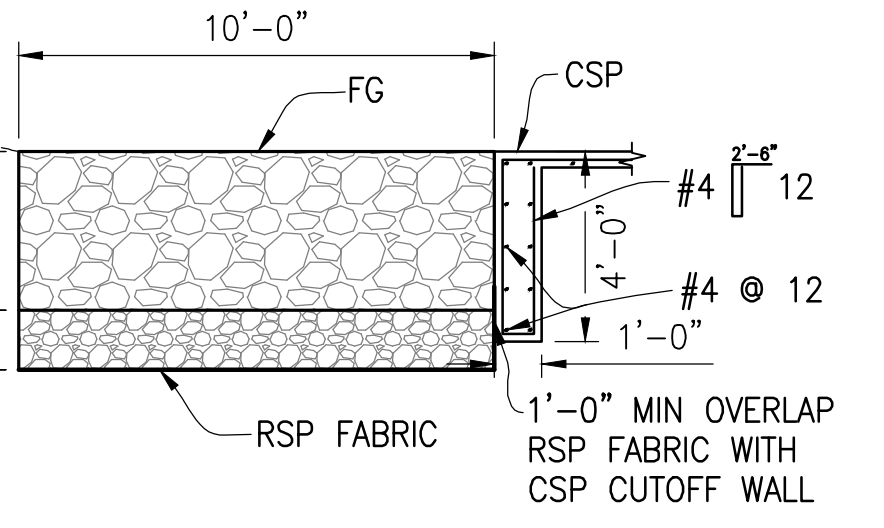
PLAN
1"=10'



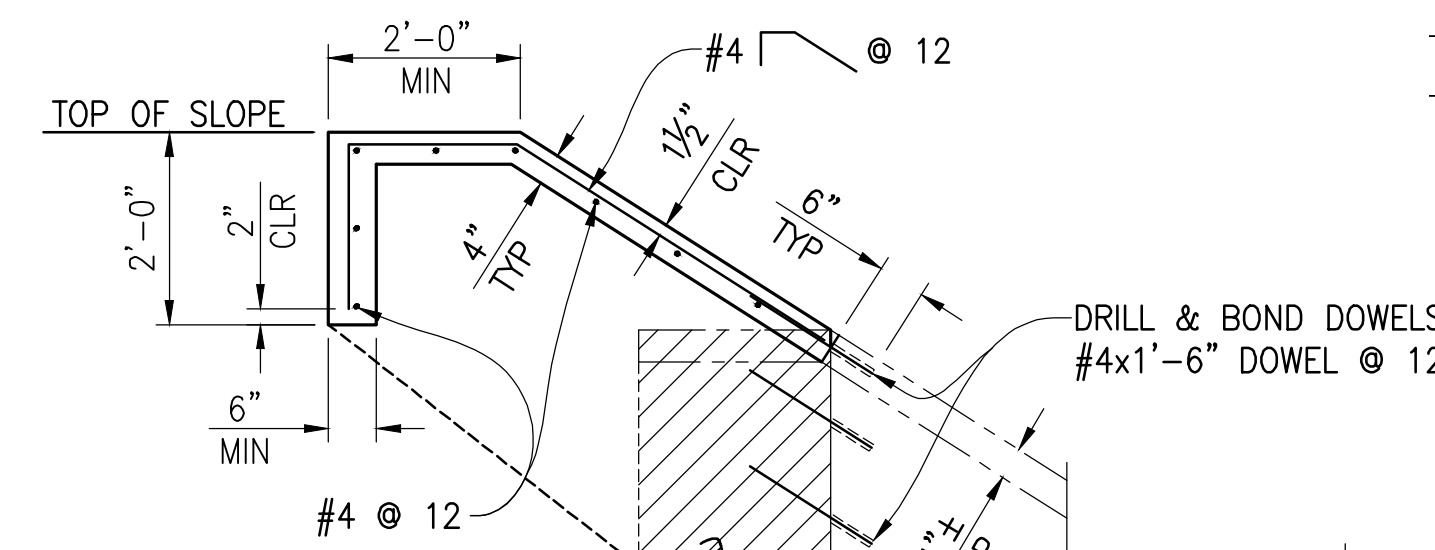
TYPICAL SECTION AT BANK
1/4"=1'-0"



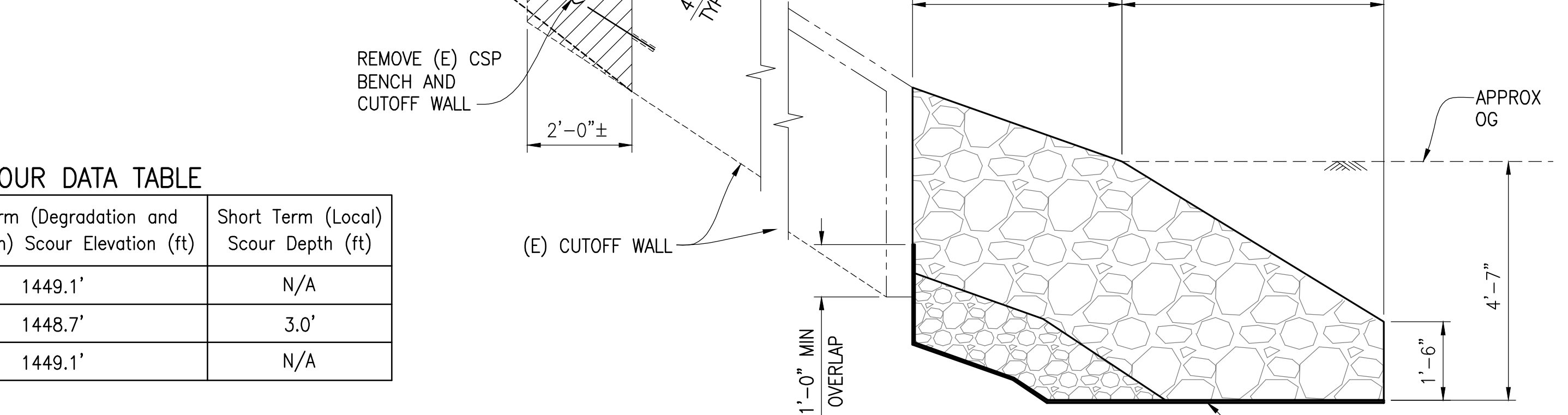
SECTION D-D
1/4"=1'-0"



SECTION G-G
1/4"=1'-0"



SECTION E-E
1/2"=1'-0"

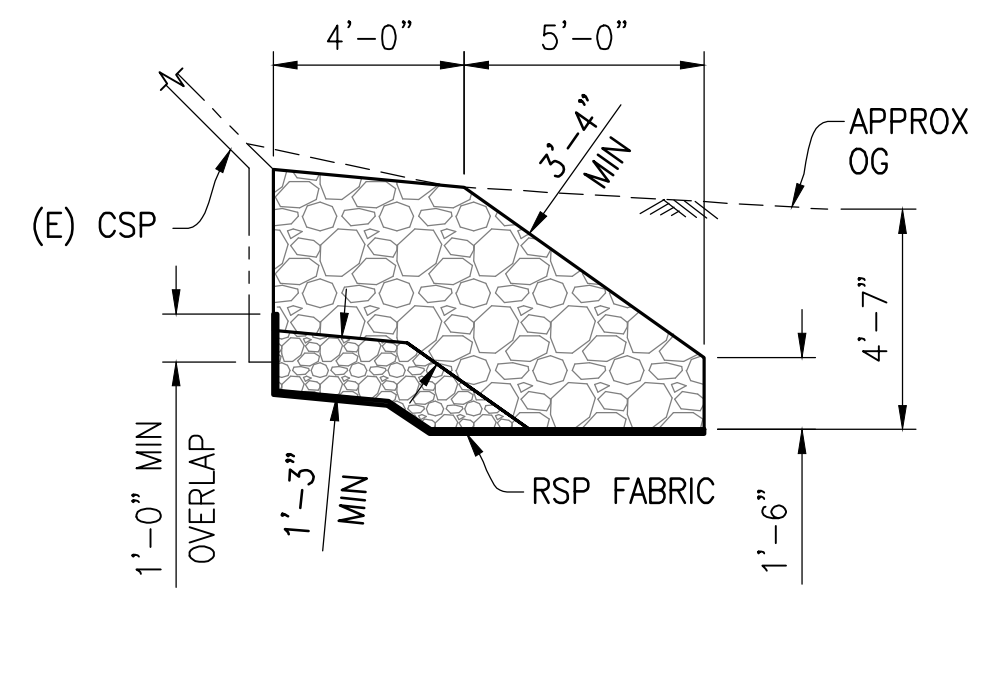


SECTION F-F
1/4"=1'-0"

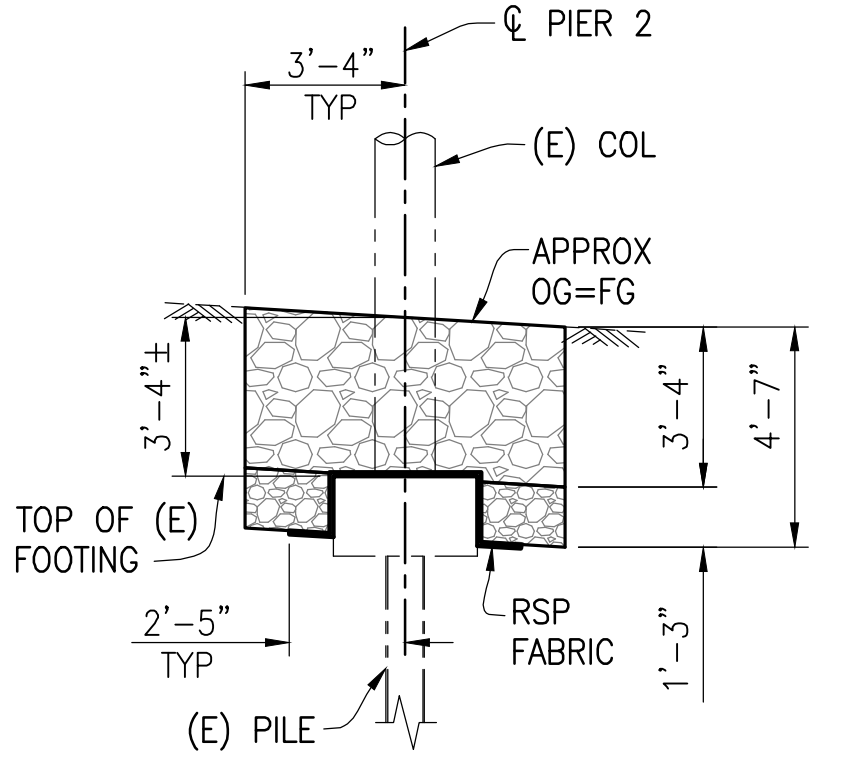
SCOUR DATA TABLE

Support No.	Long Term (Degradation and Contraction) Scour Elevation (ft)	Short Term (Local) Scour Depth (ft)
Abut 1	1449.1'	N/A
Pier 2	1448.7'	3.0'
Abut 3	1449.1'	N/A

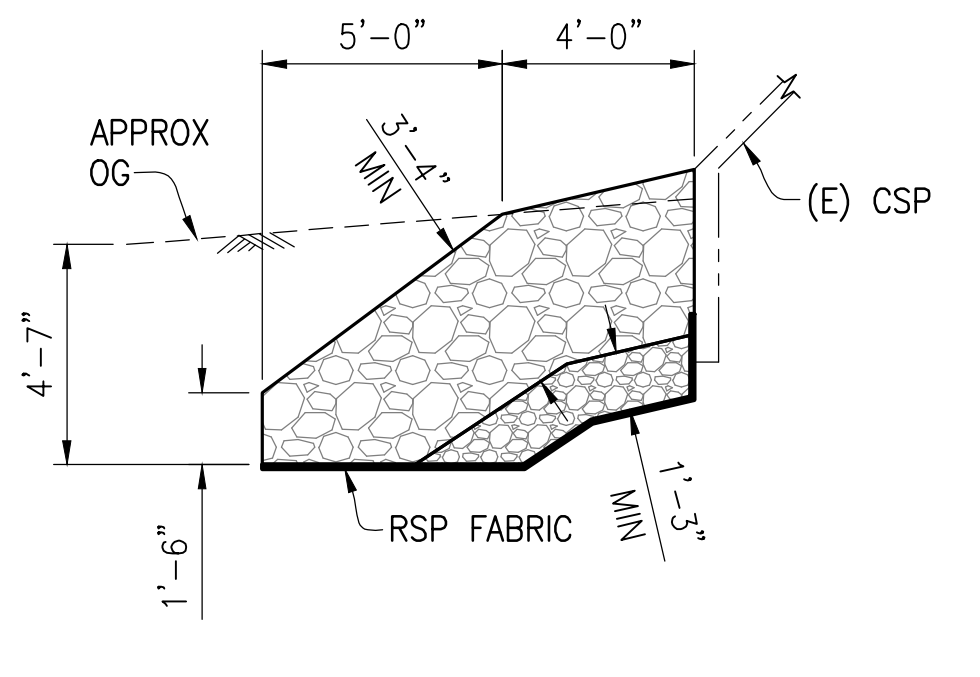
- LEGEND:**
- Indicates RSP (1/4 TON, CLASS V, METHOD B)
 - Indicates RSP (20 Lb, CLASS I, METHOD B)
 - Remove Slope Paving
 - Indicates Existing Structure
 - 1450- Indicates APPROX OG Contour
 - Indicates FG Elevation
 - ② Reconstruct Downdrain Flume, see "ROAD DETAILS" sheet
 - ⑦ Remove Barbed Wire Fence to gain access to channel, see "FENCE DETAILS" sheet
 - ⑨ Concrete (Slope Protection) Extension
 - ⑩ Stream Gage to be protected in place
 - ⑪ Existing PG&E overhead electrical to remain



SECTION A-A
1/4"=1'-0"



SECTION B-B
1/4"=1'-0"

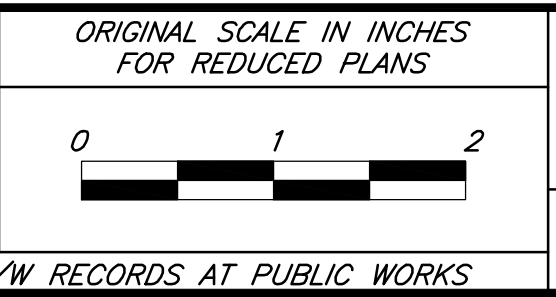


SECTION C-C
1/4"=1'-0"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

BENCH MARK:
THE HORIZONTAL DATUM FOR THIS SURVEY IS NAD83 (EPOCH DATE 2010.0), AS ESTABLISHED BY NGS CORS. ELEVATIONS SHOWN ARE BASED ON THE CITY OF FRESNO (NGVD29) VERTICAL DATUM. THE MAP PROJECTION FOR THIS SURVEY IS CALIFORNIA STATE PLANE ZONE 4, US SURVEY FEET.

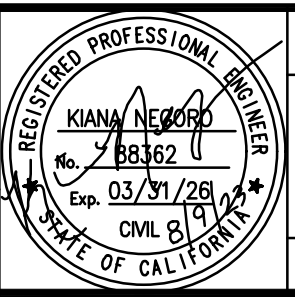
DESIGNED:	DATE
K. NEGORO	11-30-17
DRAWN:	DATE
A. CARDOZA	11-30-17
CHECKED:	DATE
M. CHRISTENSEN	09-10-24



TRC 8050 North Palm Ave., Suite 300
Fresno, California 93711

MARK IMBRIANI
SUPERVISING ENGINEER

09-10-24
DATE:



PROJECT
BPMP SCOUR MITIGATION
AT VARIOUS LOCATIONS

ROAD NO. BRIDGE NO. 42C0459



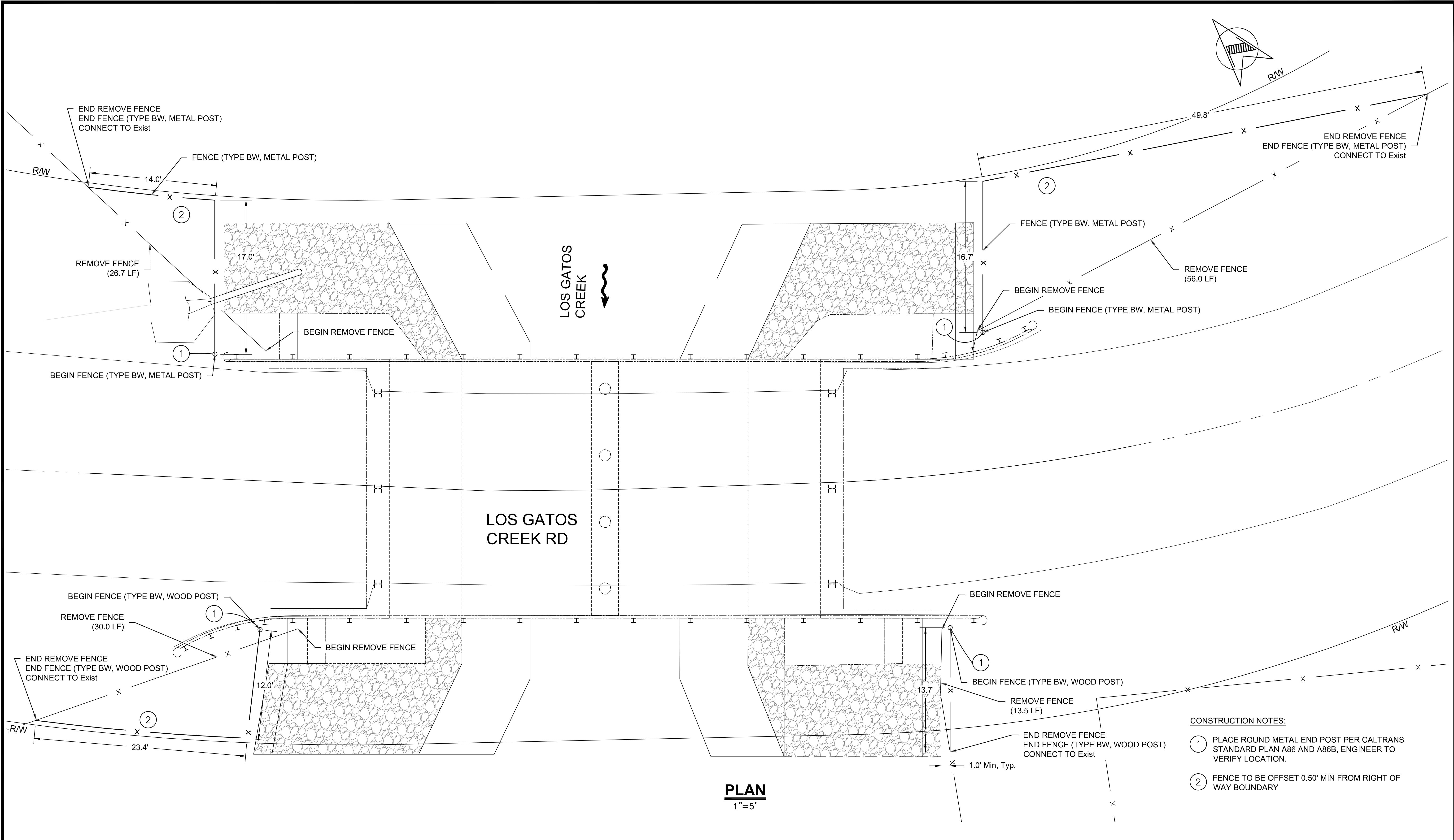
DEPARTMENT OF PUBLIC WORKS AND PLANNING

FOUNDATION PLAN
LOS GATOS CREEK BRIDGE AT LOS GATOS CREEK ROAD
(11.31 MILES WEST OF S. DERRICK BLVD)

DRAWING NO. 11259 SHEET NO. 4 TOTAL 28

Drawing name: H:\213544_BPMP_Fresno_County\001-42C0459 - LOS GATOS CREEK\42C0459_FP.dwg Layout Tab: Standards Sep 11, 2024 - 3:43pm DBachulian

Drawing name: H:\213544_BPMP_Fresno County\001-420459 - LOS GATOS CREEK\Sheets\Los Gatos Creek_420459_FENCE_DETAILS.dwg Layout: Tab: 420459_PP Sep 11, 2024 - 2:25pm OBatchuluun



PLAN
1"=5'

- CONSTRUCTION NOTES:**
- ① PLACE ROUND METAL END POST PER CALTRANS STANDARD PLAN A86 AND A86B, ENGINEER TO VERIFY LOCATION.
 - ② FENCE TO BE OFFSET 0.50' MIN FROM RIGHT OF WAY BOUNDARY

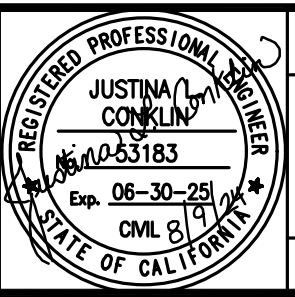
DESIGNED:	DATE
A. BEDAL	06-07-24
DRAWN:	DATE
O. BATCHULUUN	06-10-24
CHECKED:	DATE
J. CONKLIN	09-10-24

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS
PLAN 0 5' 10' HZ
PROFILE 0 2' 4' VT

TRC 8050 North Palm Ave., Suite 300
Fresno, California 93711

MARK IMBRIANI
SUPERVISING ENGINEER

09-10-24
DATE:

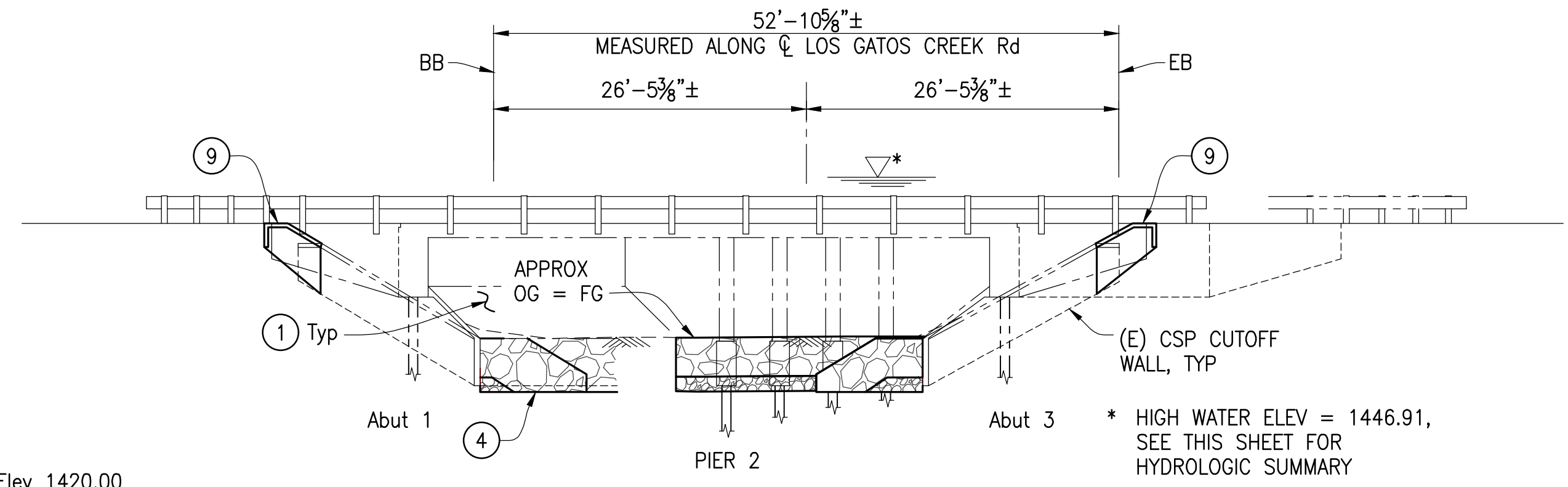


PROJECT	
BPMP SCOUR MITIGATION AT VARIOUS LOCATIONS	
ROAD NO.	BRIDGE NO. 42C0459

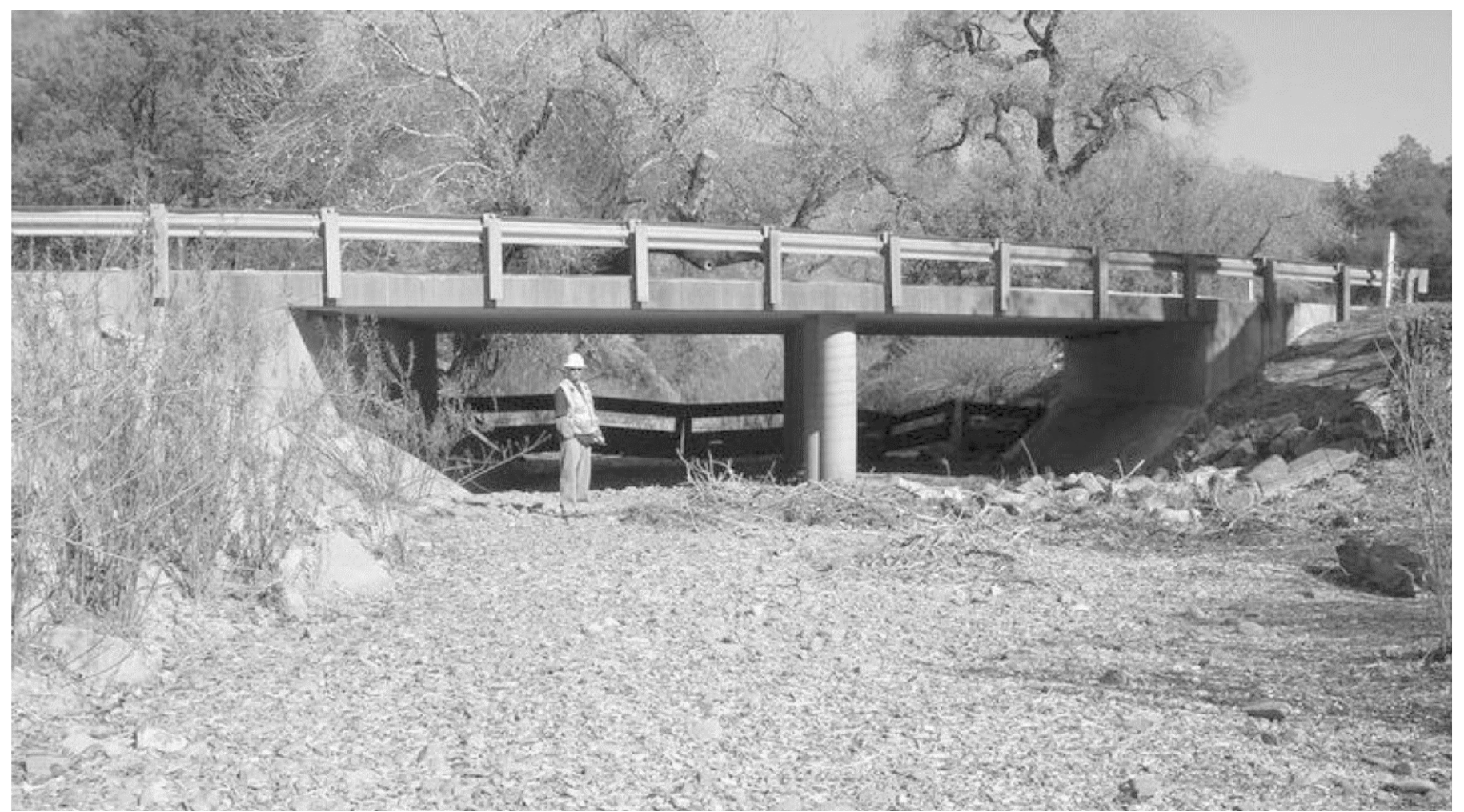


DEPARTMENT OF PUBLIC WORKS AND PLANNING		
FENCE DETAILS		
LOS GATOS CREEK BRIDGE AT LOS GATOS CREEK ROAD (11.31 MILES WEST OF S. DERRICK BLVD)		
DRAWING NO. 11259	SHEET NO. 6	TOTAL 28

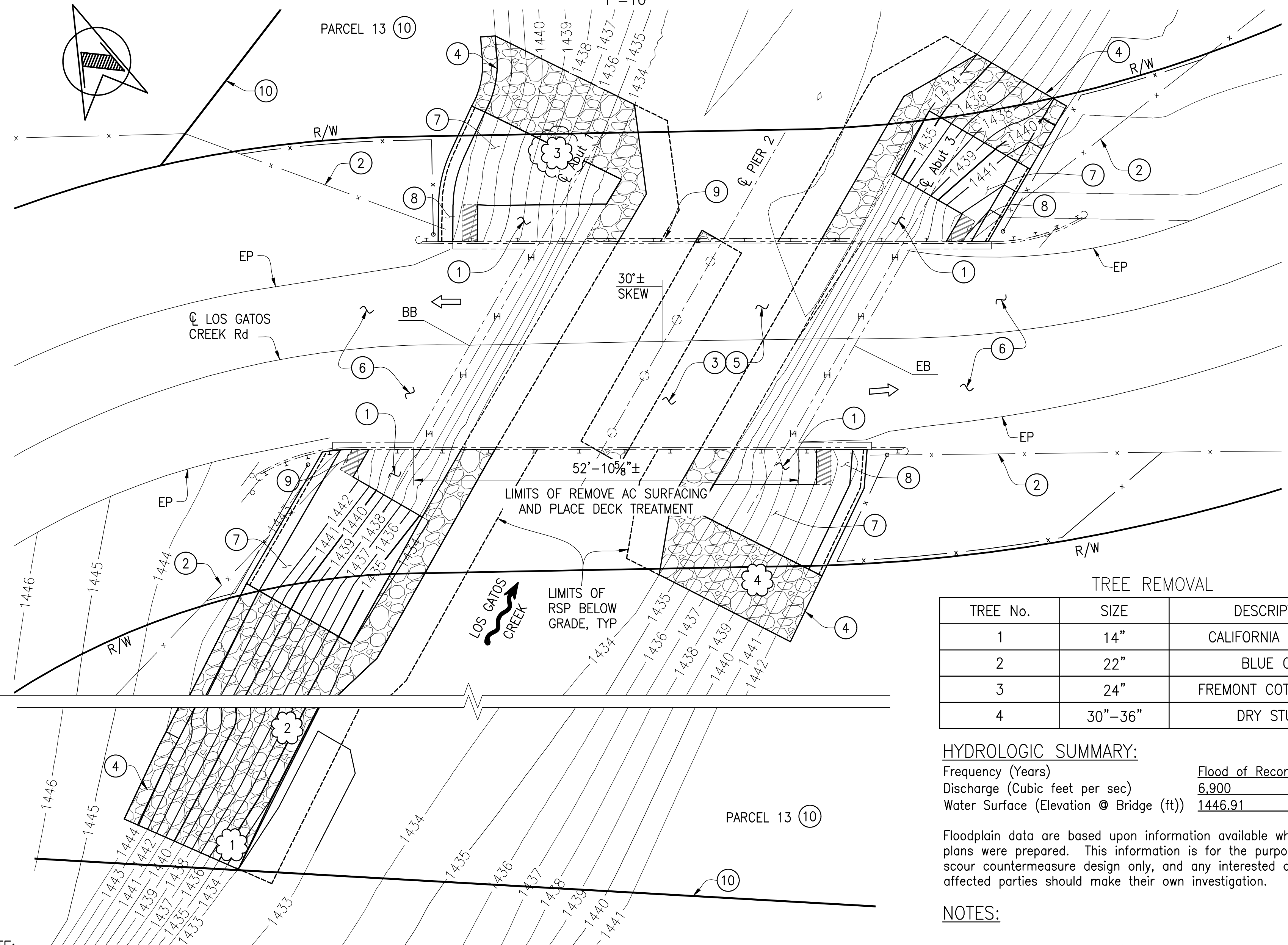
REVISION FOR R/W DATA AND ACCURATE ACCESS DETERMINATION SEE R/W RECORDS AT PUBLIC WORKS



ELEVATION



ELEVATION LOOKING NORTHEAST/DOWNSTREAM



PLAN

1"=10'

TREE REMOVAL

TREE No.	SIZE	DESCRIPTION
1	14"	CALIFORNIA JUNIPER
2	22"	BLUE OAK
3	24"	FREMONT COTTONWOOD
4	30"-36"	DRY STUMP

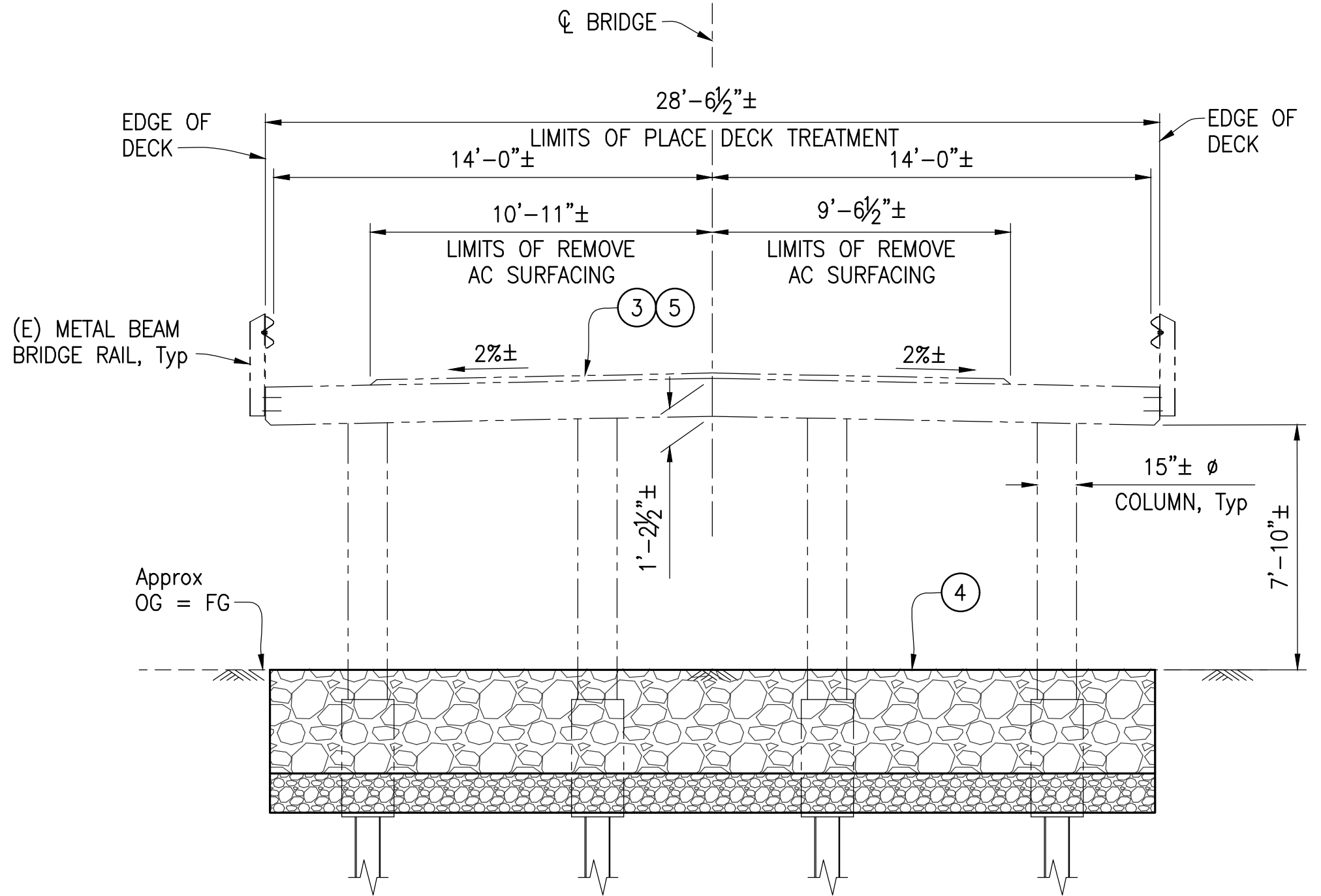
HYDROLOGIC SUMMARY:

Frequency (Years)	Flood of Record (1995)
Discharge (Cubic feet per sec)	6,900
Water Surface (Elevation @ Bridge (ft))	1446.91

Floodplain data are based upon information available when the plans were prepared. This information is for the purposes of scour countermeasure design only, and any interested or affected parties should make their own investigation.

NOTES:

1. For GENERAL NOTES, see "GENERAL LEGEND AND GENERAL NOTES" sheet.



TYPICAL SECTION

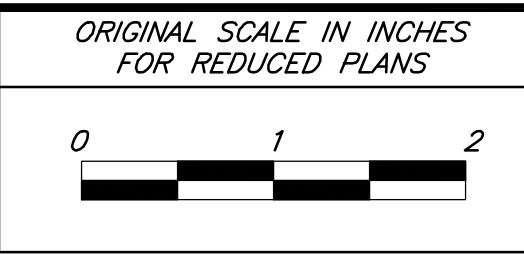
1/4"=1'-0"

LEGEND:

- ➔ Indicates Direction of Traffic
- Indicates Existing Structure
- 1440- Indicates FG Contour
- ⊗ Remove Tree
- ① Existing Slope Protection to remain
- ② Remove Barbed Wire Fence to gain access to channel, see "FENCE DETAILS" sheet
- ③ Remove 3"± thick AC surfacing from bridge deck
- ④ Rock Slope Protection
- ⑤ Place Deck Treatment
- ⑥ Remove and Place HMA to match bridge deck, see "ROAD DETAILS" sheet.
- ⑦ Concrete (Slope Protection) & Cutoff Wall
- ⑧ Concrete (Slope Protection) Extension
- ⑨ Remove Livestock Guard
- ⑩ Right of Way Acquisition

NOTE: THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

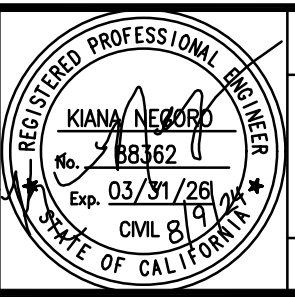
DESIGNED:	DATE
K. NEGORO	11-30-17
DRAWN:	DATE
G. IMBSEN	02-27-20
CHECKED:	DATE
M. CHRISTENSEN	09-10-24



TRC 8050 North Palm Ave., Suite 300
Fresno, California 93711

MARK IMBRIANI
SUPERVISING ENGINEER

09-10-24
DATE:



PROJECT

BPMP SCOUR MITIGATION
AT VARIOUS LOCATIONS

ROAD NO. BRIDGE NO. 42C0458



DEPARTMENT OF PUBLIC WORKS AND PLANNING

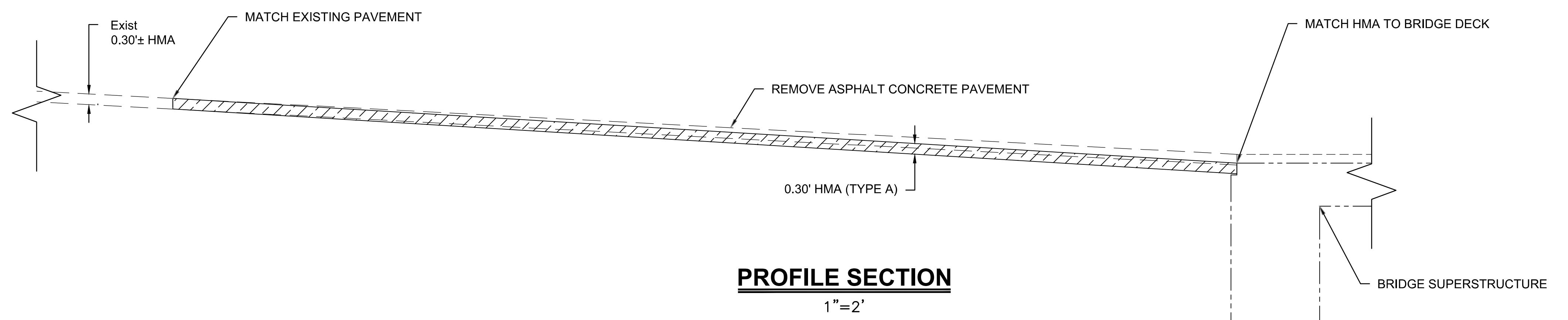
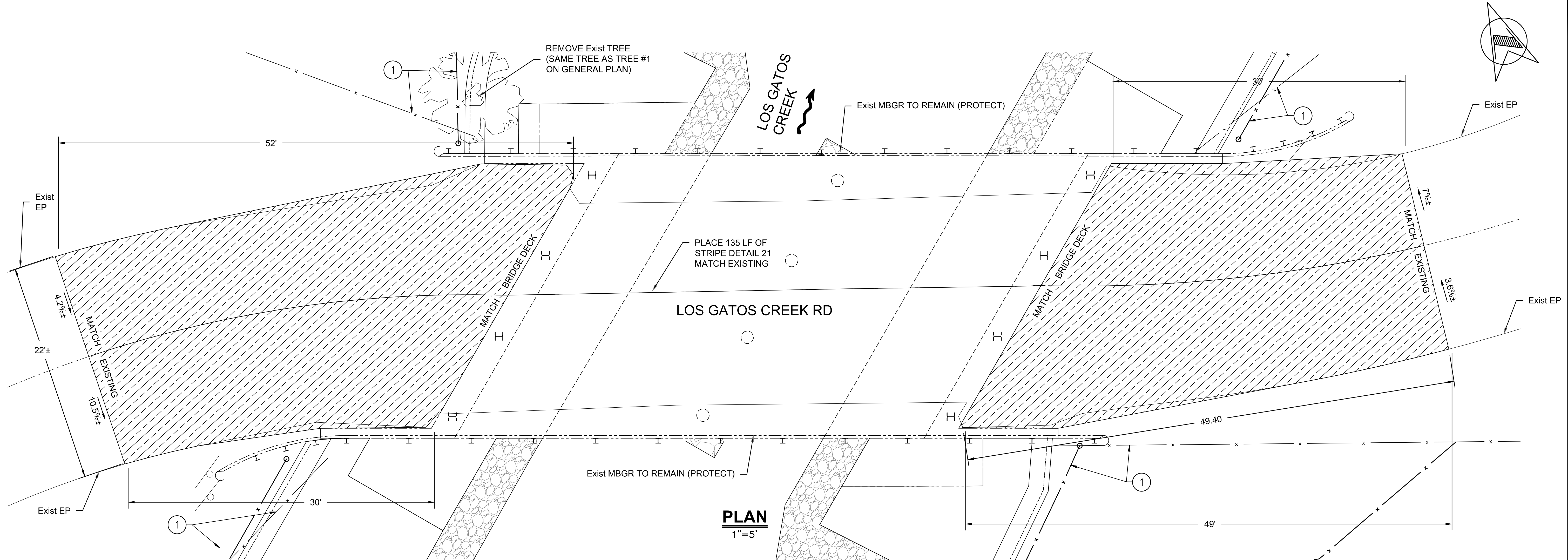
GENERAL PLAN

LOS GATOS CREEK BRIDGE AT LOS GATOS CREEK ROAD
(11.14 MILES WEST OF S. DERRICK BLVD)

DRAWING NO. 11259 SHEET NO. 7 TOTAL 28

Drawing name: H:\213544_BPMP_Fresno_County\002-42C0458 - LOS GATOS CREEK\42C0458_CP.dwg Layout Tab: Standards Sep 11, 2024 - 2:46pm DBatchulu

Drawing name: H:\213544_BPMP_Fresno_County\02-42C0458 - LOS GATOS CREEK\Sheets\Los Gatos Creek_42C0458_Road_Details.dwg Layout Tab: 42C0458_PP Sep 11, 2024 - 12:51pm 0Bchulian



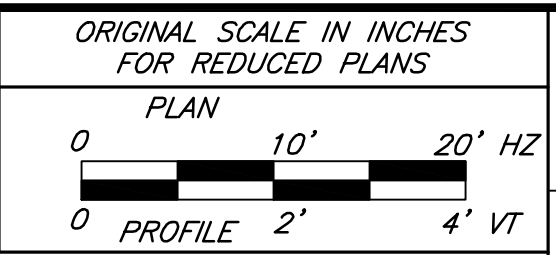
LEGEND

	REMOVE ASPHALT CONCRETE PAVEMENT PLACE 0.30' HMA (TYPE A)
	RSP (1/4 TON, CLASS V, METHOD B) SEE BRIDGE PLANS

CONSTRUCTION NOTES:
 ① FOR FENCE, SEE "FENCE DETAILS" SHEET

**LOS GATOS CREEK BRIDGE (42C0458) HMA APPROACH REPAIR
 TYPICAL DETAIL AT BOTH ENDS OF BRIDGE**

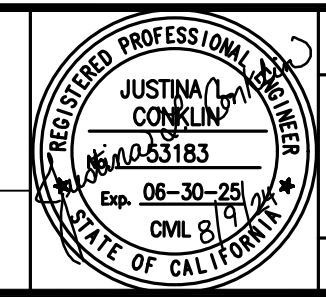
DESIGNED:	DATE
A. BEDAL	06-07-24
DRAWN:	DATE
A. BEDAL	06-10-24
CHECKED:	DATE
J. CONKLIN	09-10-24



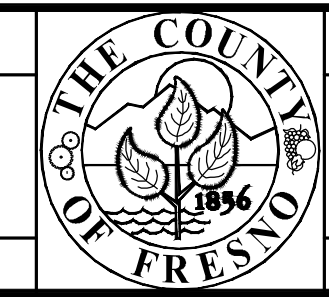
TRC 8050 North Palm Ave., Suite 300
 Fresno, California 93711

MARK IMBRIANI
 SUPERVISING ENGINEER

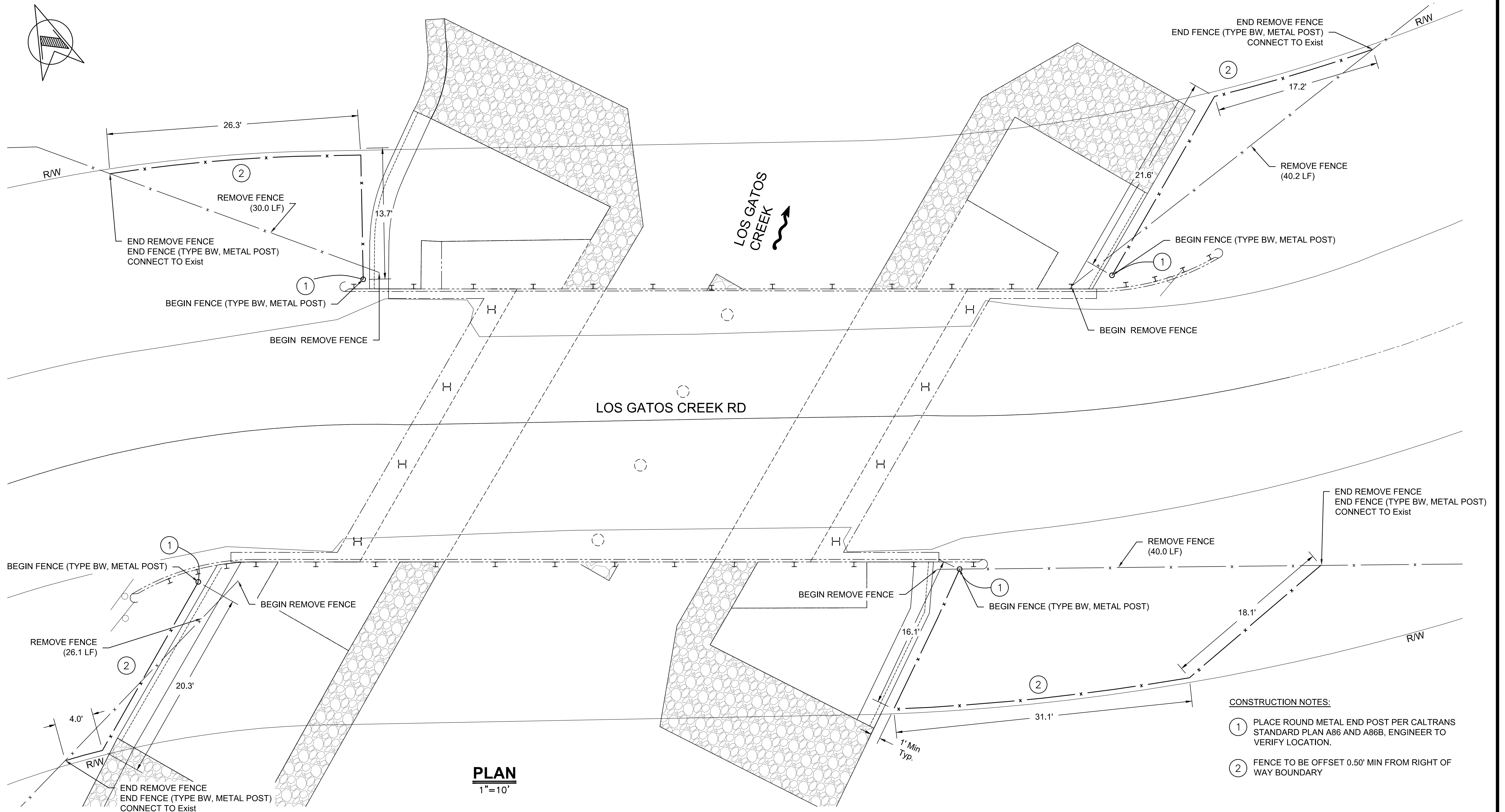
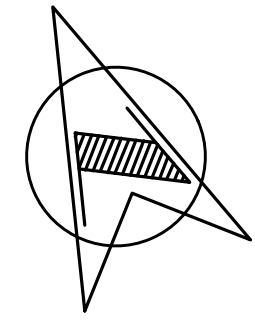
09-10-24
 DATE:



PROJECT	
BPMP SCOUR MITIGATION AT VARIOUS LOCATIONS	
ROAD NO.	BRIDGE NO. 42C0458



DEPARTMENT OF PUBLIC WORKS AND PLANNING		
ROAD DETAILS		
LOS GATOS CREEK BRIDGE AT LOS GATOS CREEK ROAD (11.14 MILES WEST OF S. DERRICK BLVD)		
DRAWING NO. 11259	SHEET NO. 9	TOTAL 28

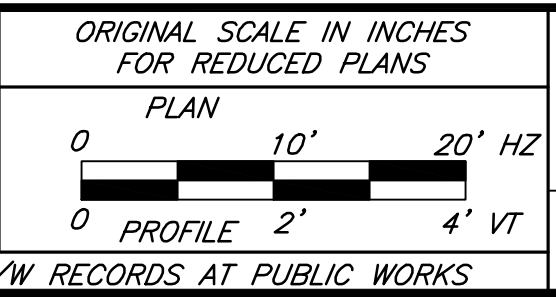


PLAN
1"=10'

- CONSTRUCTION NOTES:**
- ① PLACE ROUND METAL END POST PER CALTRANS STANDARD PLAN A86 AND A86B, ENGINEER TO VERIFY LOCATION.
 - ② FENCE TO BE OFFSET 0.50' MIN FROM RIGHT OF WAY BOUNDARY

Drawing name: H:\213544_BPMP_Fresno_County\02-4200458 - LOS GATOS CREEK\Sheets\Los Gatos Creek_4200458_Fence_Details.dwg Layout Tab: 4200458_PP_Sep 11, 2024 - 2:54pm DBatchuluun

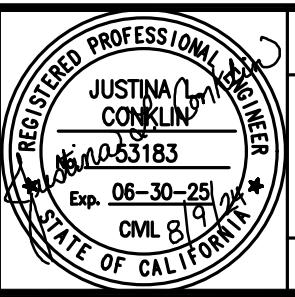
DESIGNED:	DATE
A. BEDAL	06-07-24
DRAWN:	DATE
O. BATCHULUUN	06-10-24
CHECKED:	DATE
J. CONKLIN	09-10-24



TRC 8050 North Palm Ave., Suite 300
Fresno, California 93711

MARK IMBRIANI
SUPERVISING ENGINEER

09-10-24
DATE:



PROJECT

BPMP SCOUR MITIGATION AT VARIOUS LOCATIONS

ROAD NO. _____ BRIDGE NO. 42C0458

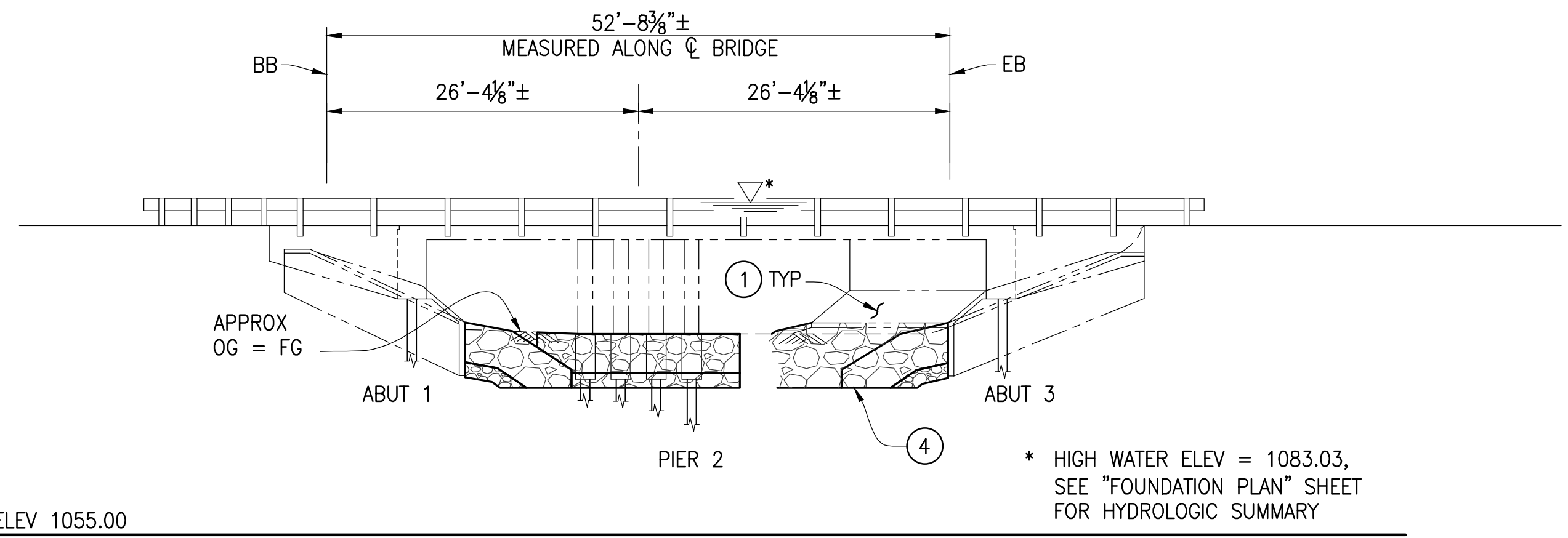


DEPARTMENT OF PUBLIC WORKS AND PLANNING

FENCE DETAILS
LOS GATOS CREEK BRIDGE AT LOS GATOS CREEK ROAD
(11.14 MILES WEST OF S. DERRICK BLVD)

DRAWING NO. 11259 SHEET NO. 10 TOTAL 28

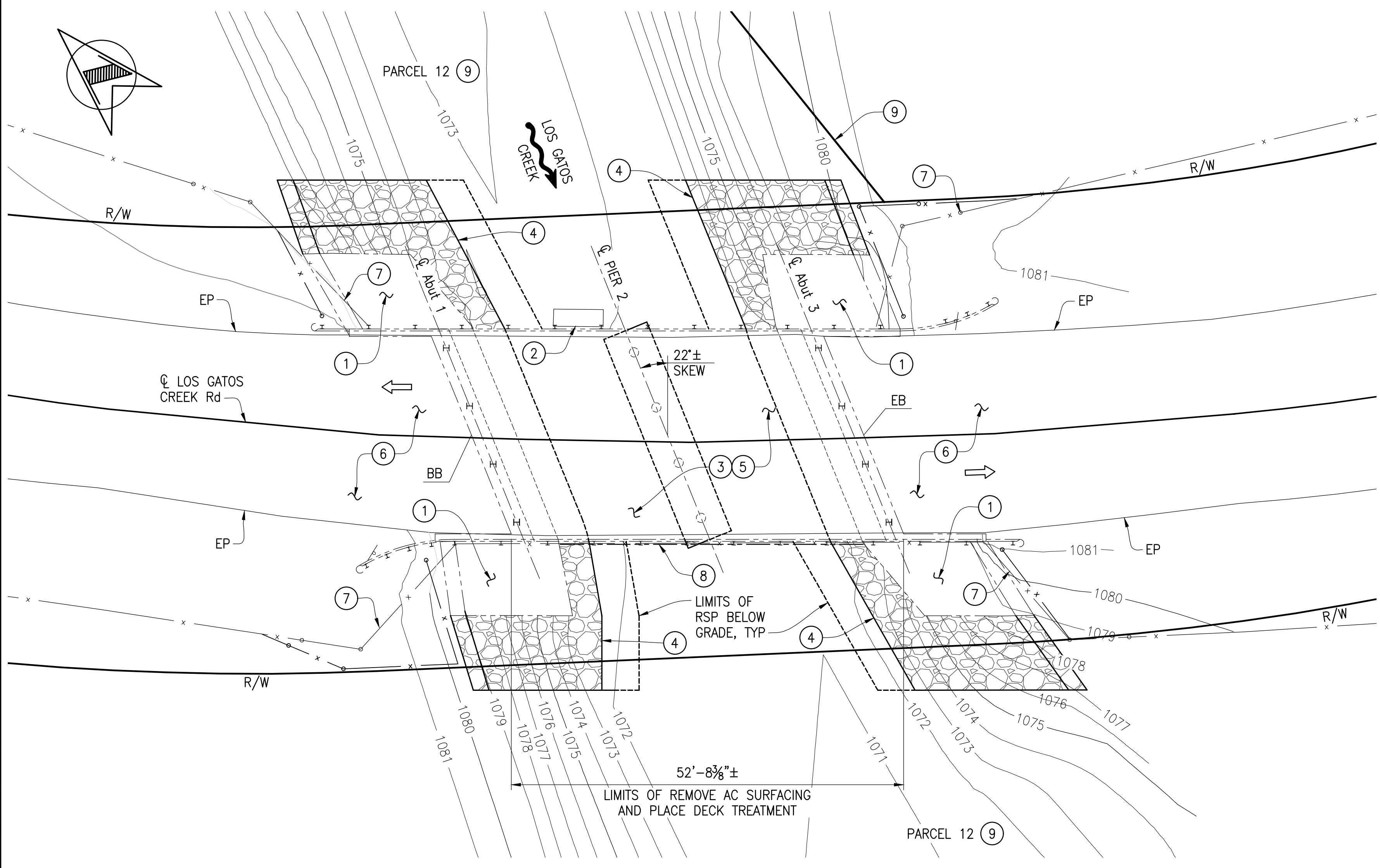
REVISION _____ FOR R/W DATA AND ACCURATE ACCESS DETERMINATION SEE R/W RECORDS AT PUBLIC WORKS



ELEVATION
1"=10'

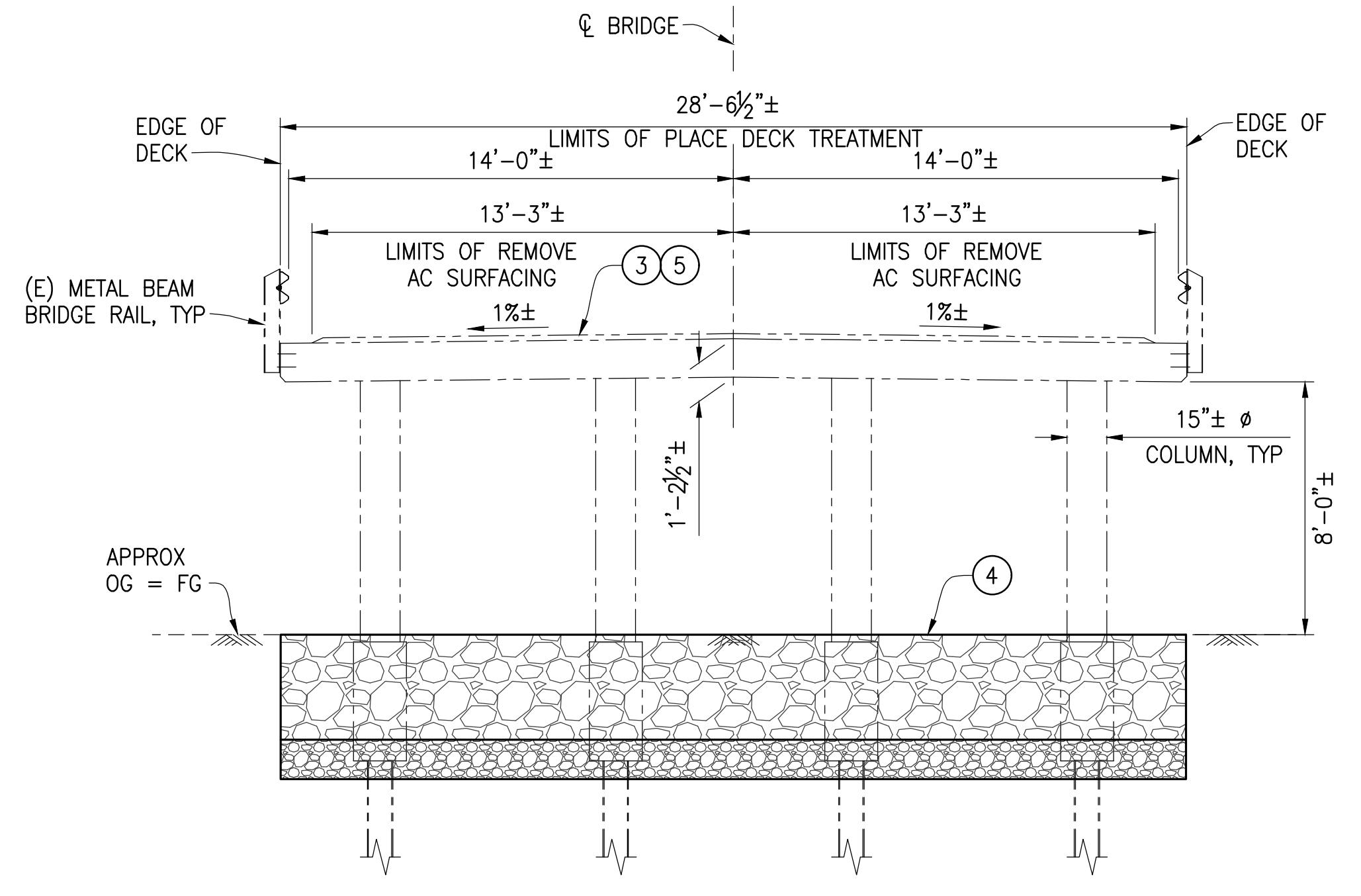


ELEVATION LOOKING NORTHEAST



PLAN
1"=10'

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



TYPICAL SECTION
1/4"=1'-0"

LEGEND:

- ⇒ Indicates Direction of Traffic
- Indicates Existing Structure
- (1) Existing Concrete Slope Protection to remain
- (2) Existing Catwalk and Equipment to be protected in place
- (3) Remove 3"± thick AC surfacing from bridge deck
- (4) Rock Slope Protection
- (5) Place Deck Treatment
- (6) Remove and Place HMA to match bridge deck, see "ROAD DETAILS" sheet
- (7) Remove Barbed Wire Fence to gain access to channel, see "FENCE DETAILS" sheet
- (8) Remove Livestock Guard
- (9) Right of Way Acquisition

NOTES:

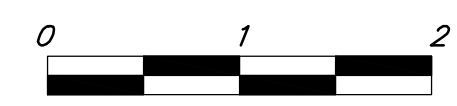
1. For GENERAL NOTES, see "GENERAL LEGEND AND GENERAL NOTES" sheet.

Drawing name: H:\213544_BPMP_Fresno_County\003-4200455 - LOS GATOS CREEK\4200455_G01.dwg Layout Tab: Standards Sep 11, 2024 - 2:56pm DBatchuluun

DESIGNED: K. NEGORO	11-30-17
DRAWN: G. IMBSEN	02-27-20
CHECKED: M. CHRISTENSEN	09-10-24

DATE

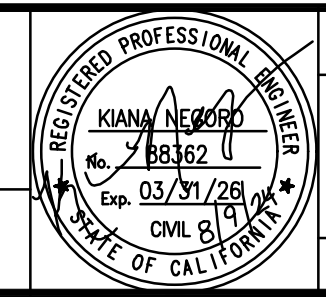
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



TRC 8050 North Palm Ave., Suite 300
Fresno, California 93711

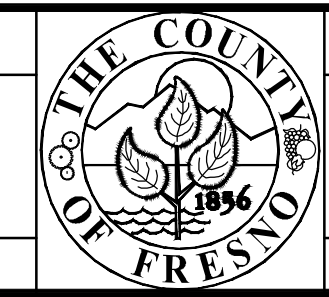
MARK IMBRIANI
SUPERVISING ENGINEER

09-10-24
DATE:



PROJECT
BPMP SCOUR MITIGATION
AT VARIOUS LOCATIONS

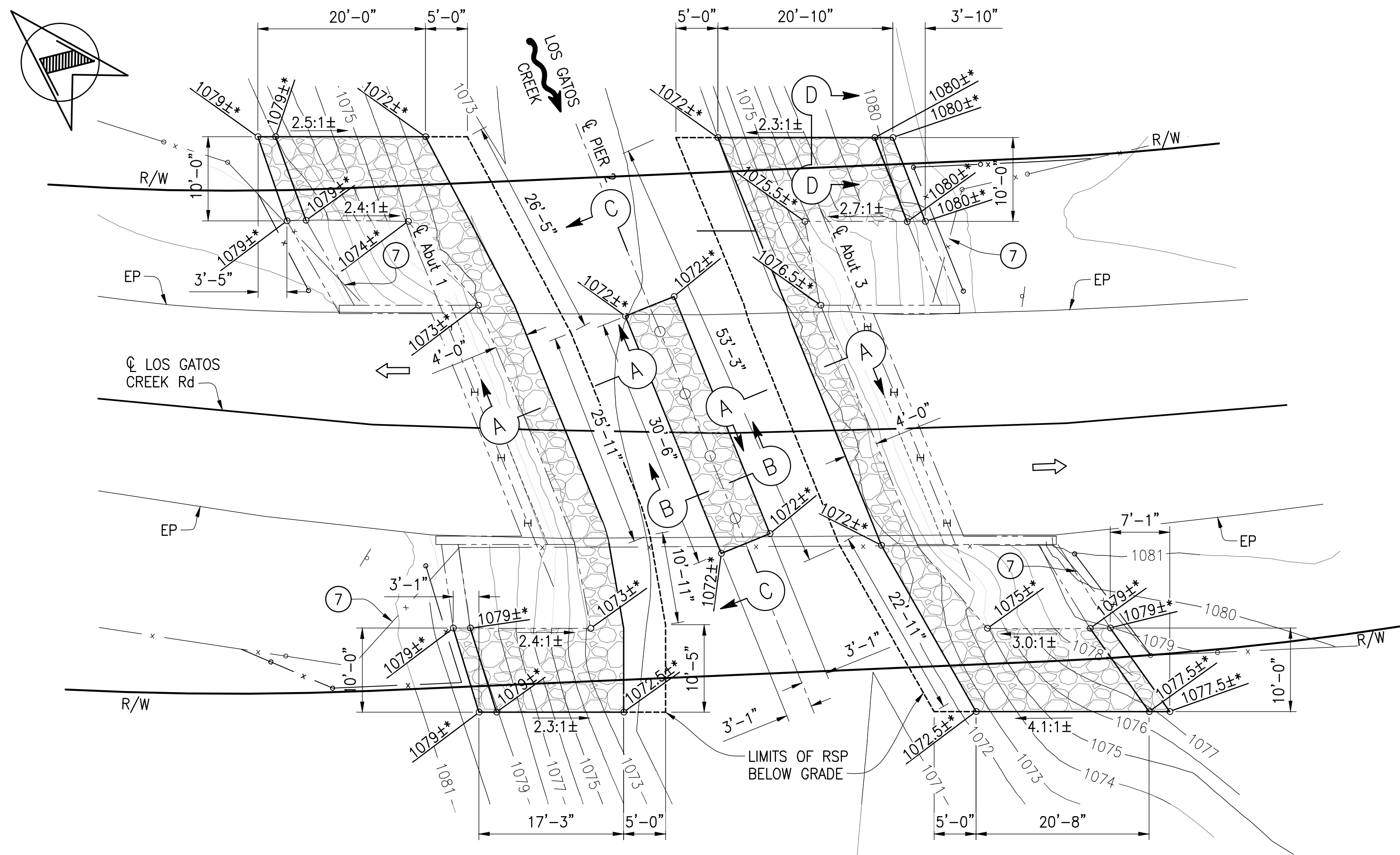
ROAD NO. BRIDGE NO. 42C0455



DEPARTMENT OF PUBLIC WORKS AND PLANNING

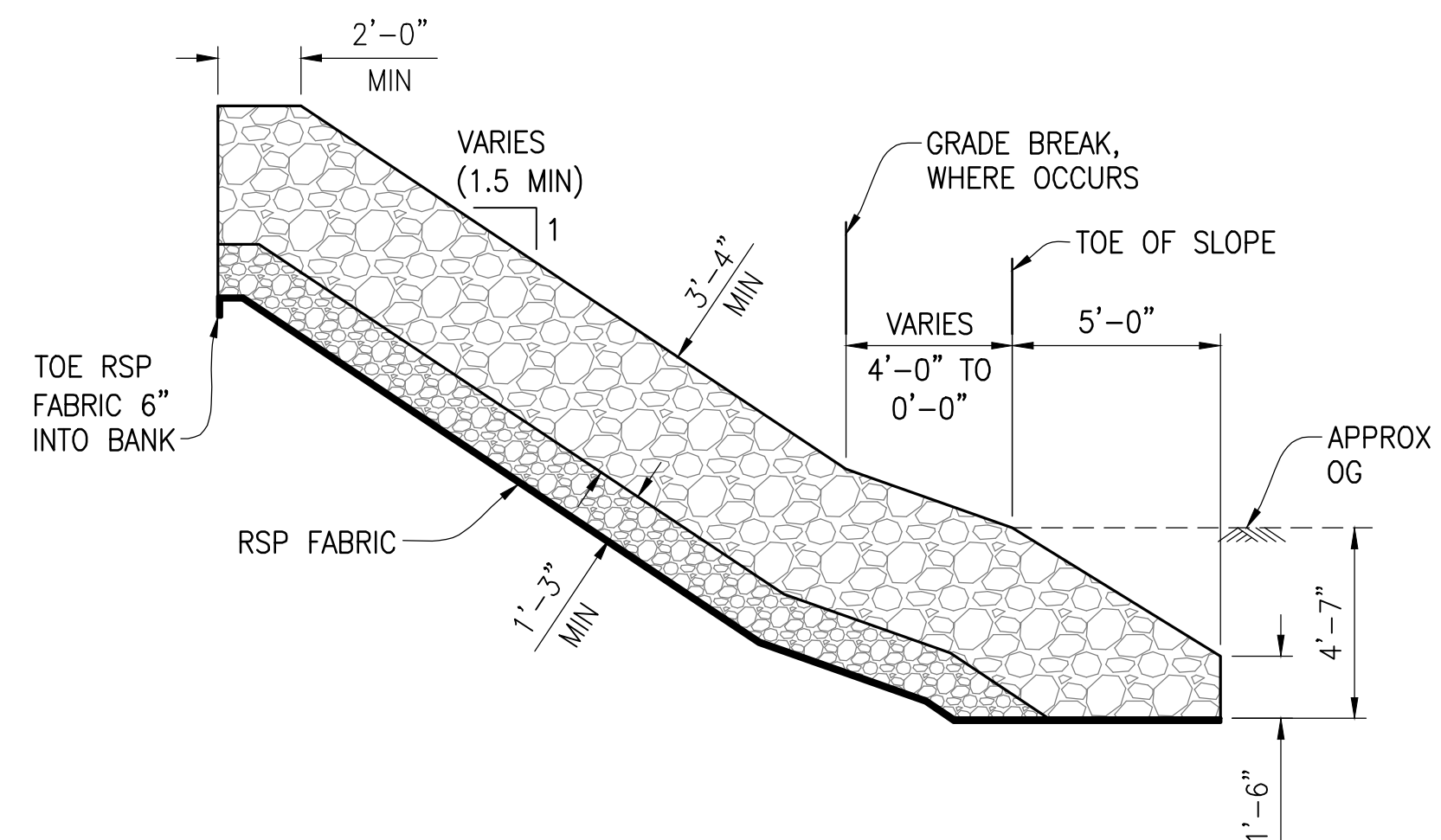
GENERAL PLAN
LOS GATOS CREEK BRIDGE AT LOS GATOS CREEK ROAD
(5.53 MILES WEST OF S. DERRICK BLVD)

DRAWING NO. 11259 SHEET NO. 11 TOTAL 28

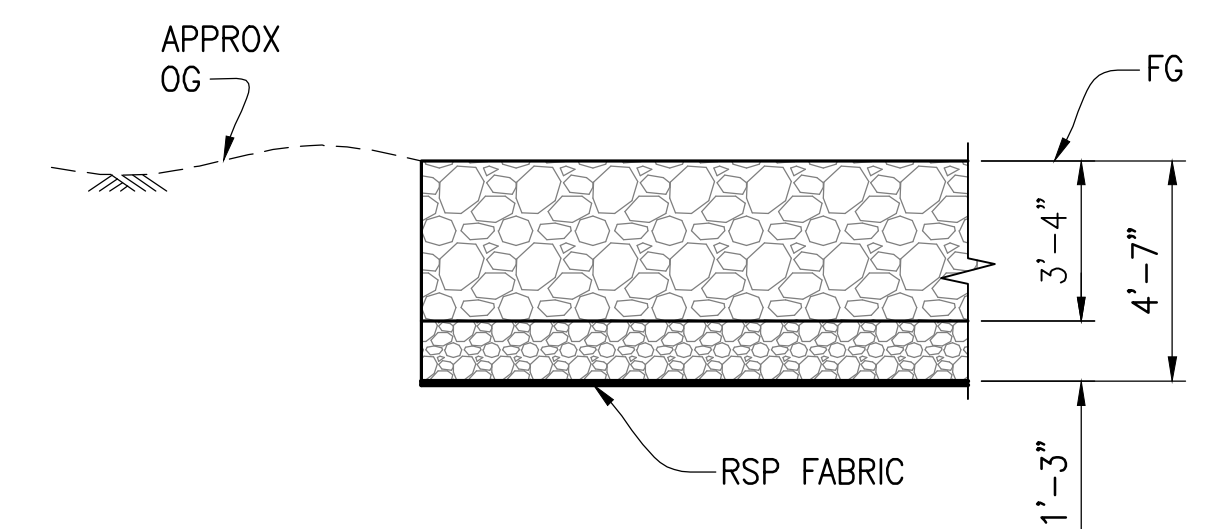


PLAN
1" = 10'

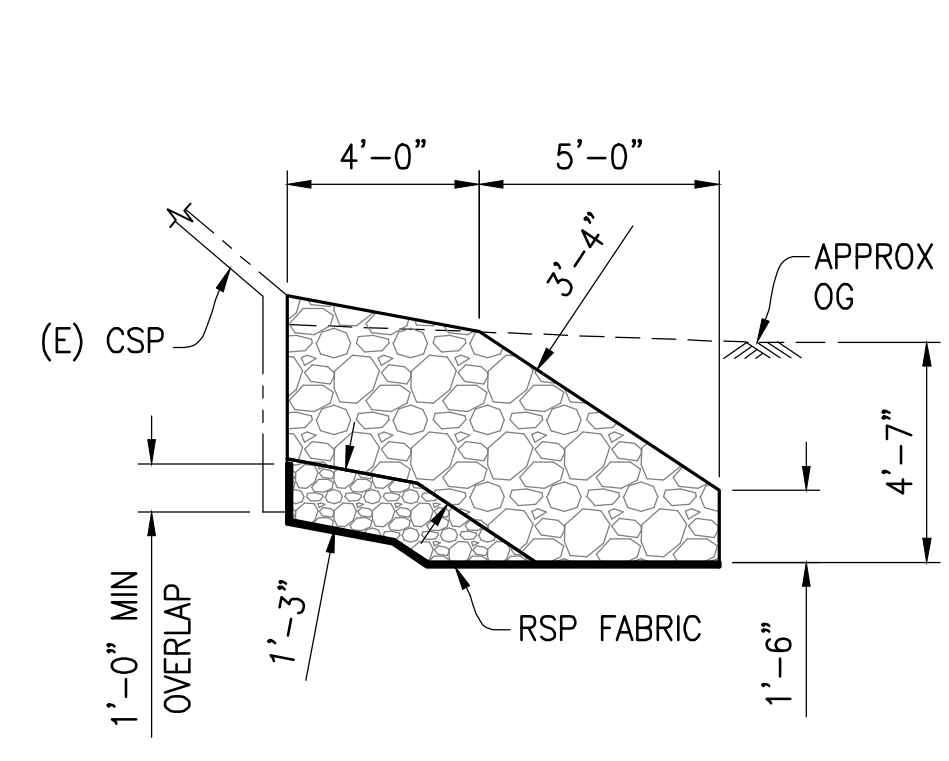
* MATCH OG



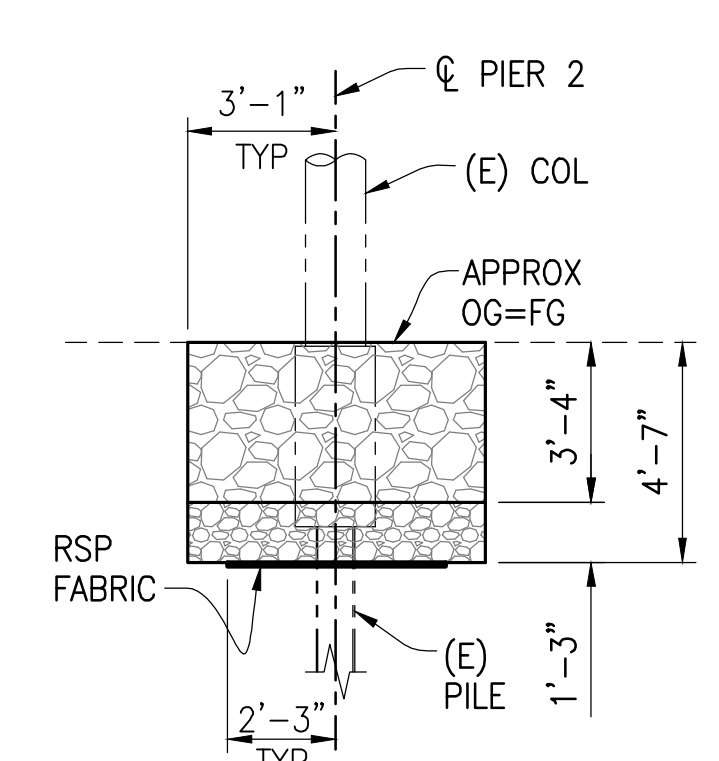
TYPICAL SECTION AT BANK
1/4" = 1'-0"



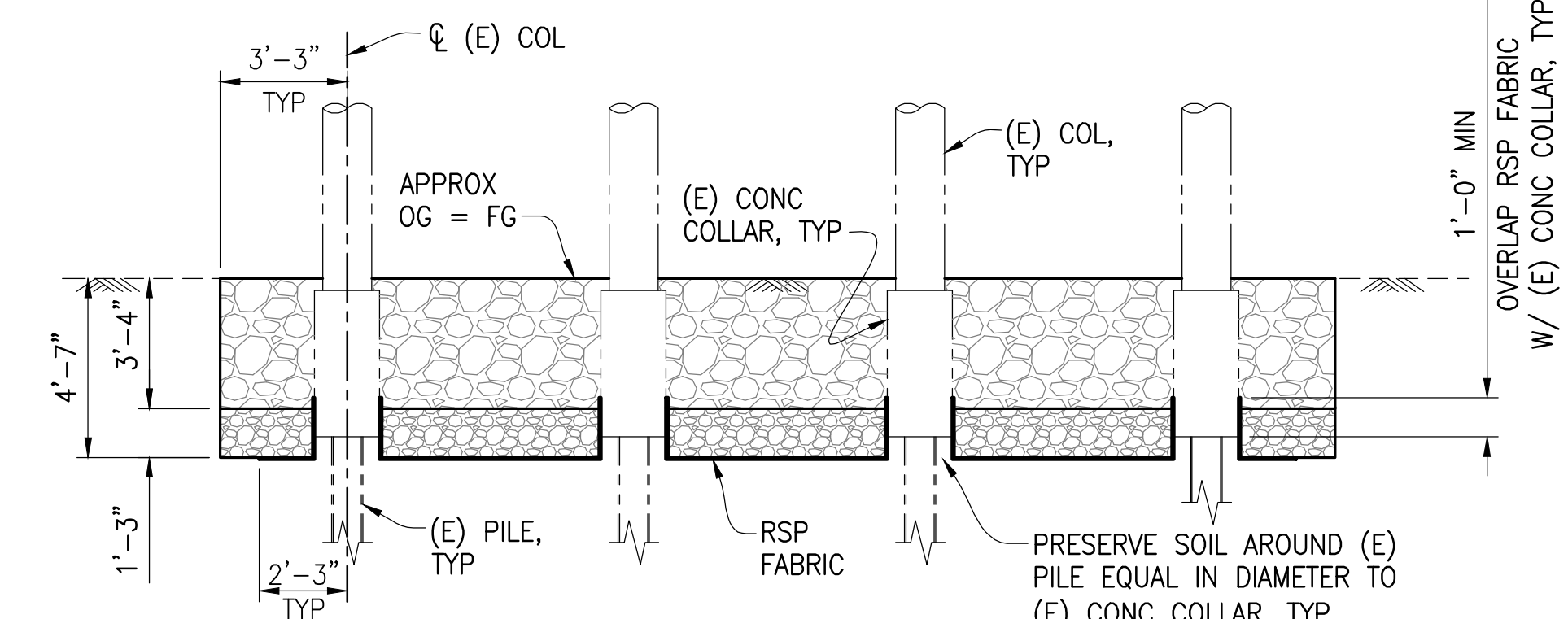
SECTION D-D
1/4" = 1'-0"



SECTION A-A
1/4" = 1'-0"



SECTION B-B
1/4" = 1'-0"



SECTION C-C
1/4" = 1'-0"

SCOUR DATA TABLE

Support No.	Long Term (Degradation and Contraction) Scour Elevation (ft)	Short Term (Local) Scour Depth (ft)
Abut 1	1069.6'	N/A
Pier 2	1069.6'	3.0'
Abut 3	1072.9'	N/A

- LEGEND:**
- Indicates RSP (1/4 TON, CLASS V, Method B)
 - Indicates RSP (20 Lb, CLASS I, Method B)
 - Indicates Existing Structure
 - Indicates APPROX OG Contour
 - Indicates FG Elevation
 - Remove Barbed Wire Fence to gain access to channel, see "FENCE DETAILS" sheet

HYDROLOGIC SUMMARY:

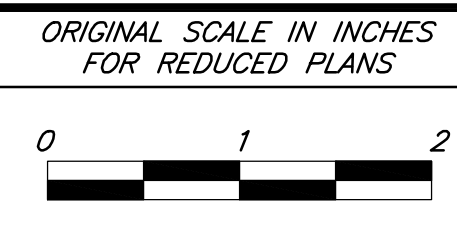
Frequency (Years)	Flood of Record (1995)
Discharge (Cubic feet per sec)	6,900
Water Surface (Elevation @ Bridge (ft))	1083.03

Floodplain data are based upon information available when the plans were prepared. This information is for the purposes of scour countermeasure design only, and any interested or affected parties should make their own investigation.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

BENCH MARK:
THE HORIZONTAL DATUM FOR THIS SURVEY IS NAD83 (EPOCH DATE 2010.0), AS ESTABLISHED BY NGS CORRS. ELEVATIONS SHOWN ARE BASED ON THE CITY OF FRESNO (NGVD29) VERTICAL DATUM. THE MAP PROJECTION FOR THIS SURVEY IS CALIFORNIA STATE PLANE ZONE 4, US SURVEY FEET.

DESIGNED: K. NEGORO 11-30-17
DRAWN: A. CARDOZA 07-29-24
CHECKED: M. CHRISTENSEN 09-10-24



TRC 8050 North Palm Ave., Suite 300
Fresno, California 93711

MARK IMBRIANI
SUPERVISING ENGINEER



PROJECT
BPMP SCOUR MITIGATION
AT VARIOUS LOCATIONS

ROAD NO. BRIDGE NO. 42C0455

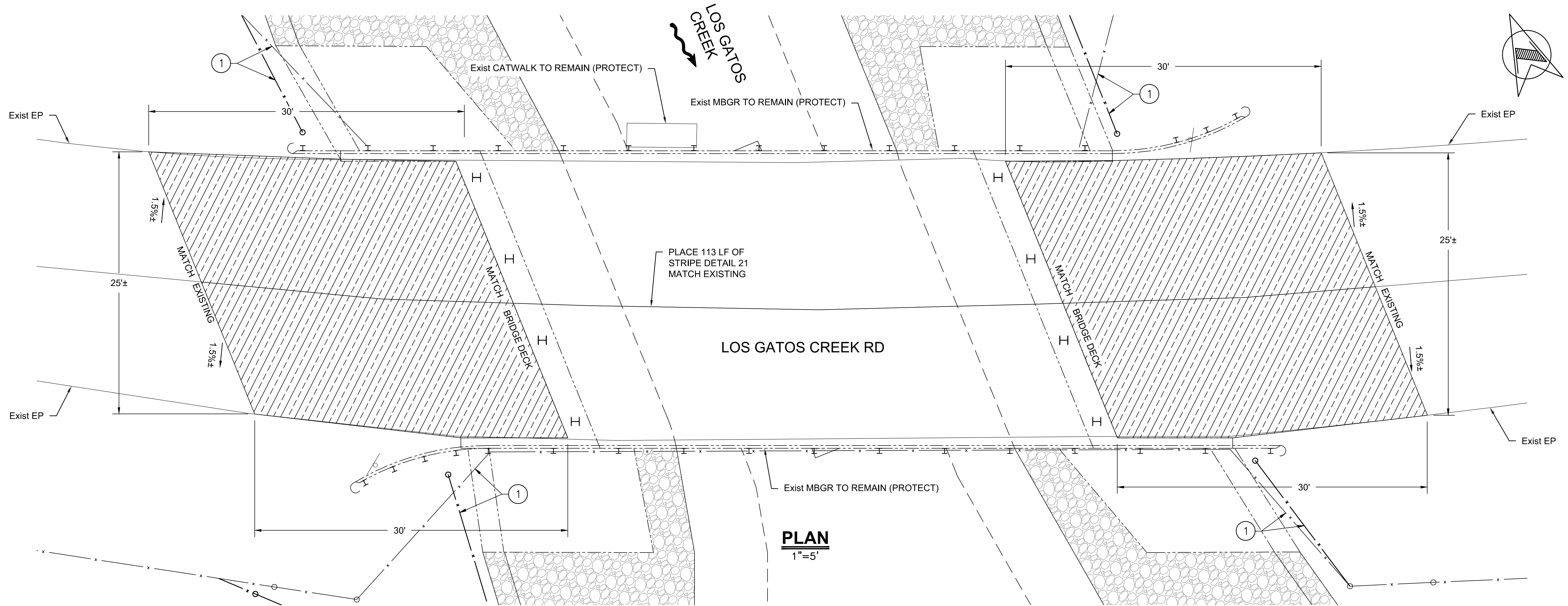


DEPARTMENT OF PUBLIC WORKS AND PLANNING
FOUNDATION PLAN
LOS GATOS CREEK BRIDGE AT LOS GATOS CREEK ROAD
(5.53 MILES WEST OF S. DERRICK BLVD)

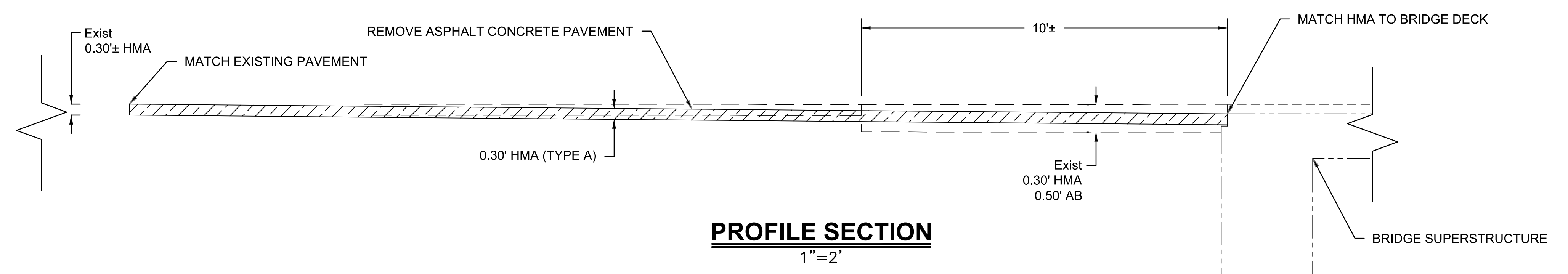
DRAWING NO. 11259 SHEET NO. 12 TOTAL 28

Drawing name: H:\213544_BPMP_Fresno_County\003-42C0455 - LOS GATOS CREEK\202405_EP.dwg Layout Tab: Standards Sep 11, 2024 - 2:58pm DBatchulu

Drawing name: H:\213544_BPMP_Fresno_County\001-42C0455 - LOS GATOS CREEK\Sheets\Los Gatos Creek_42C0455_Road_Details.dwg Layout Tab: 42C0455_PP Sep 11, 2024 - 12:58pm DBatchuluun



PLAN
1"=5'



PROFILE SECTION
1"=2'

LEGEND

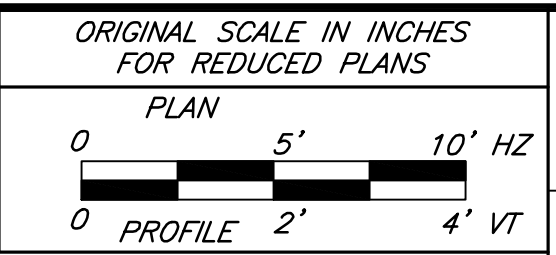
- REMOVE ASPHALT CONCRETE PAVEMENT
PLACE 0.30' HMA (TYPE A)
- RSP (1/4 TON, CLASS V, METHOD B)
SEE BRIDGE PLANS

CONSTRUCTION NOTES:

- ① FOR FENCE, SEE "FENCE DETAILS" SHEET

**LOS GATOS CREEK BRIDGE (42C0455) HMA APPROACH REPAIR
TYPICAL DETAIL AT BOTH ENDS OF BRIDGE**

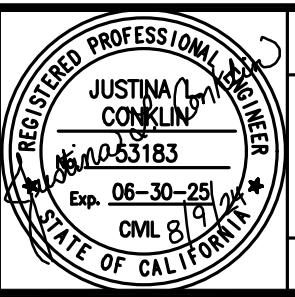
DESIGNED:	DATE
A. BEDAL	06-07-24
DRAWN:	DATE
A. BEDAL	06-10-24
CHECKED:	DATE
J. CONKLIN	09-10-24



TRC 8050 North Palm Ave., Suite 300
Fresno, California 93711

MARK IMBRIANI
SUPERVISING ENGINEER

09-10-24
DATE:



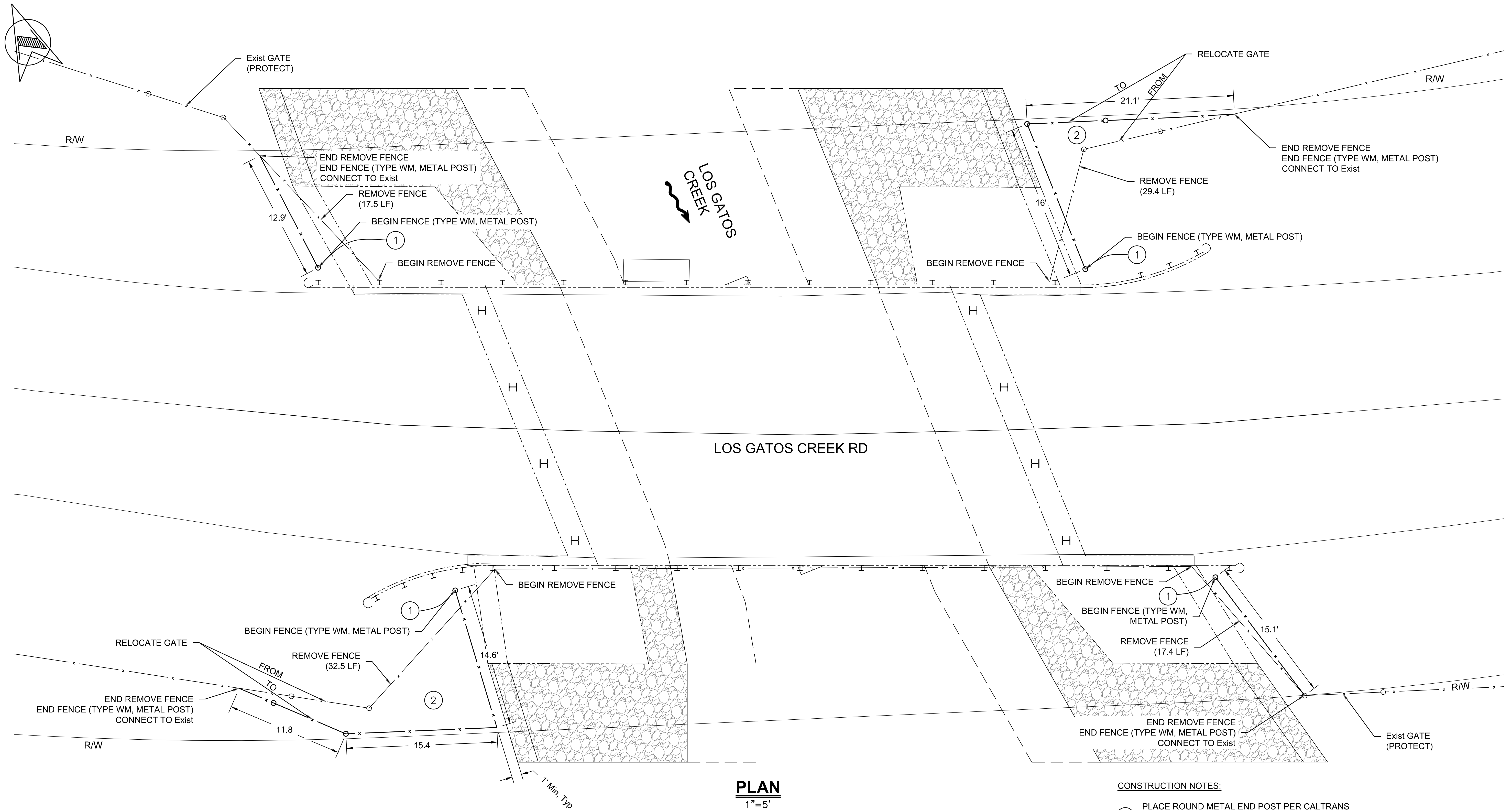
PROJECT	
BPMP SCOUR MITIGATION AT VARIOUS LOCATIONS	
ROAD NO.	BRIDGE NO. 42C0455



DEPARTMENT OF PUBLIC WORKS AND PLANNING		
ROAD DETAILS		
LOS GATOS CREEK BRIDGE AT LOS GATOS CREEK ROAD (5.53 MILES WEST OF S. DERRICK BLVD)		
DRAWING NO. 11259	SHEET NO. 13	TOTAL 28

FOR R/W DATA AND ACCURATE ACCESS DETERMINATION SEE R/W RECORDS AT PUBLIC WORKS

Drawing name: H:\213544_BPM\Fresno County\003-42C0455 - LOS GATOS CREEK\Sheets\Los Gatos Creek_42C0455_Fence_Details.dwg Layout Tab: 42C0455_PP_Sep_11_2024 - 12:59pm OBatchuluun

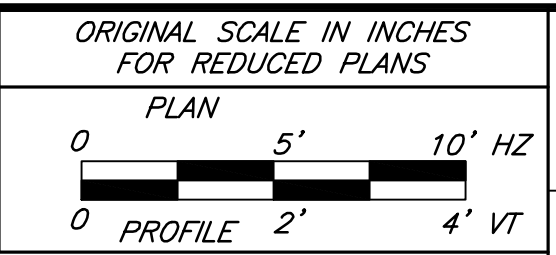


PLAN
1"=5'

CONSTRUCTION NOTES:

- ① PLACE ROUND METAL END POST PER CALTRANS STANDARD PLAN A86 AND A86B, ENGINEER TO VERIFY LOCATION.
- ② FENCE TO BE OFFSET 0.50' MIN FROM RIGHT OF WAY BOUNDARY

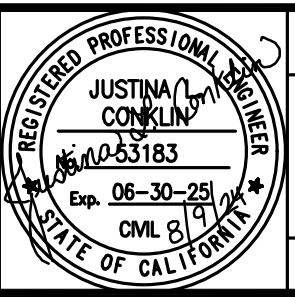
DESIGNED:	DATE
A. BEDAL	06-07-24
DRAWN: O. BATCHULUUN	06-10-24
CHECKED: J. CONKLIN	09-10-24



TRC 8050 North Palm Ave., Suite 300
Fresno, California 93711

MARK IMBRIANI
SUPERVISING ENGINEER

09-10-24
DATE:



PROJECT

BPMP SCOUR MITIGATION AT VARIOUS LOCATIONS

ROAD NO. _____ BRIDGE NO. 42C0455

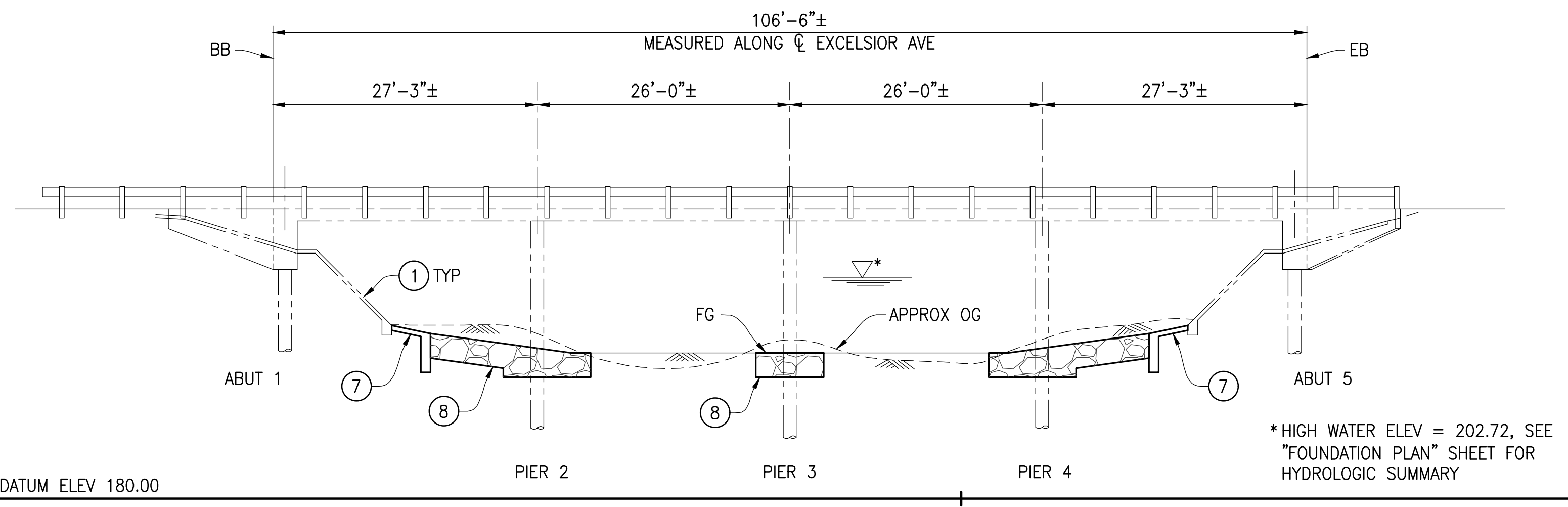


DEPARTMENT OF PUBLIC WORKS AND PLANNING

FENCE DETAILS
LOS GATOS CREEK BRIDGE AT LOS GATOS CREEK ROAD
(5.53 MILES WEST OF S. DERRICK BLVD)

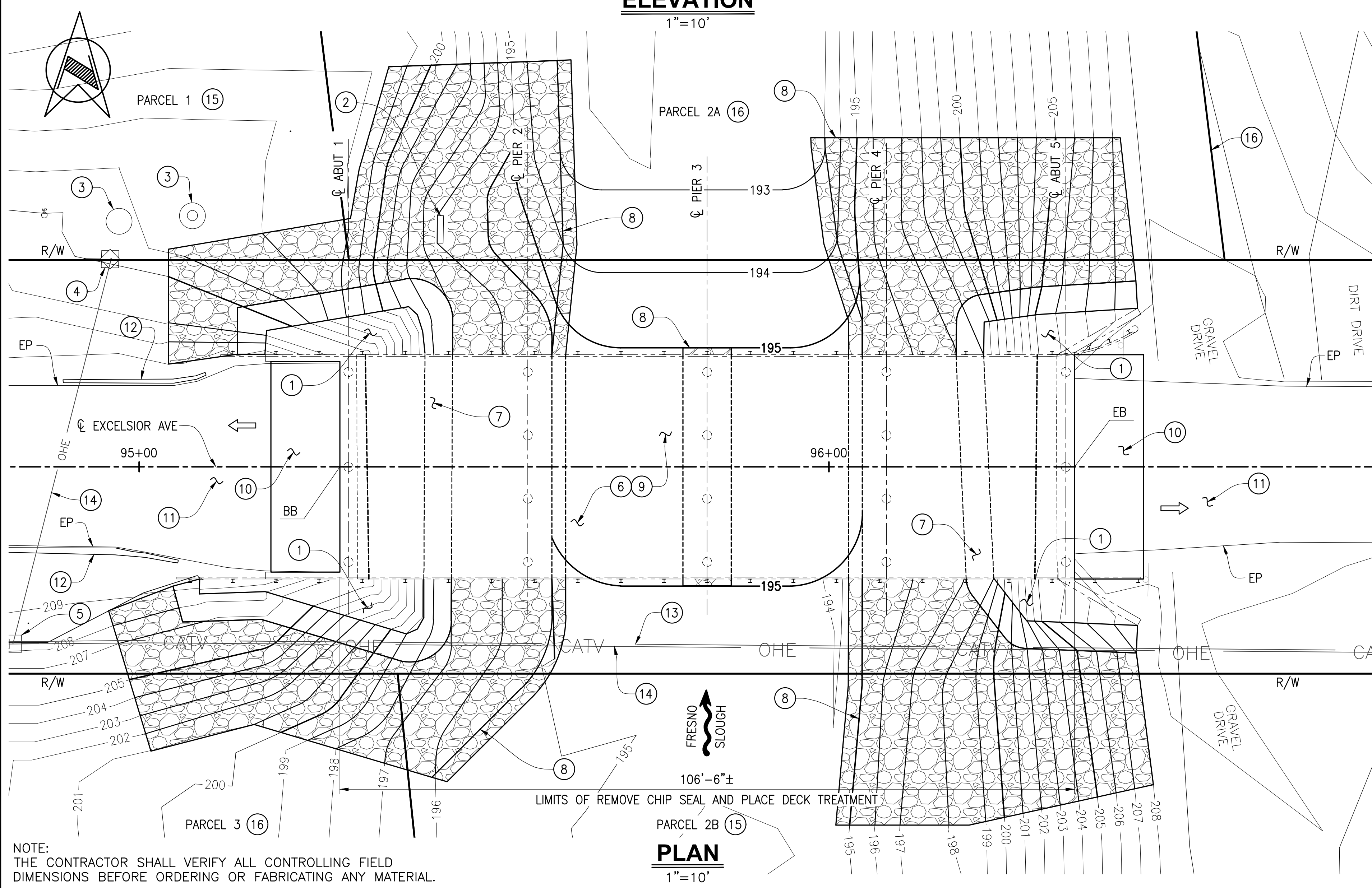
DRAWING NO. 11259 SHEET NO. 14 TOTAL 28

FOR R/W DATA AND ACCURATE ACCESS DETERMINATION SEE R/W RECORDS AT PUBLIC WORKS

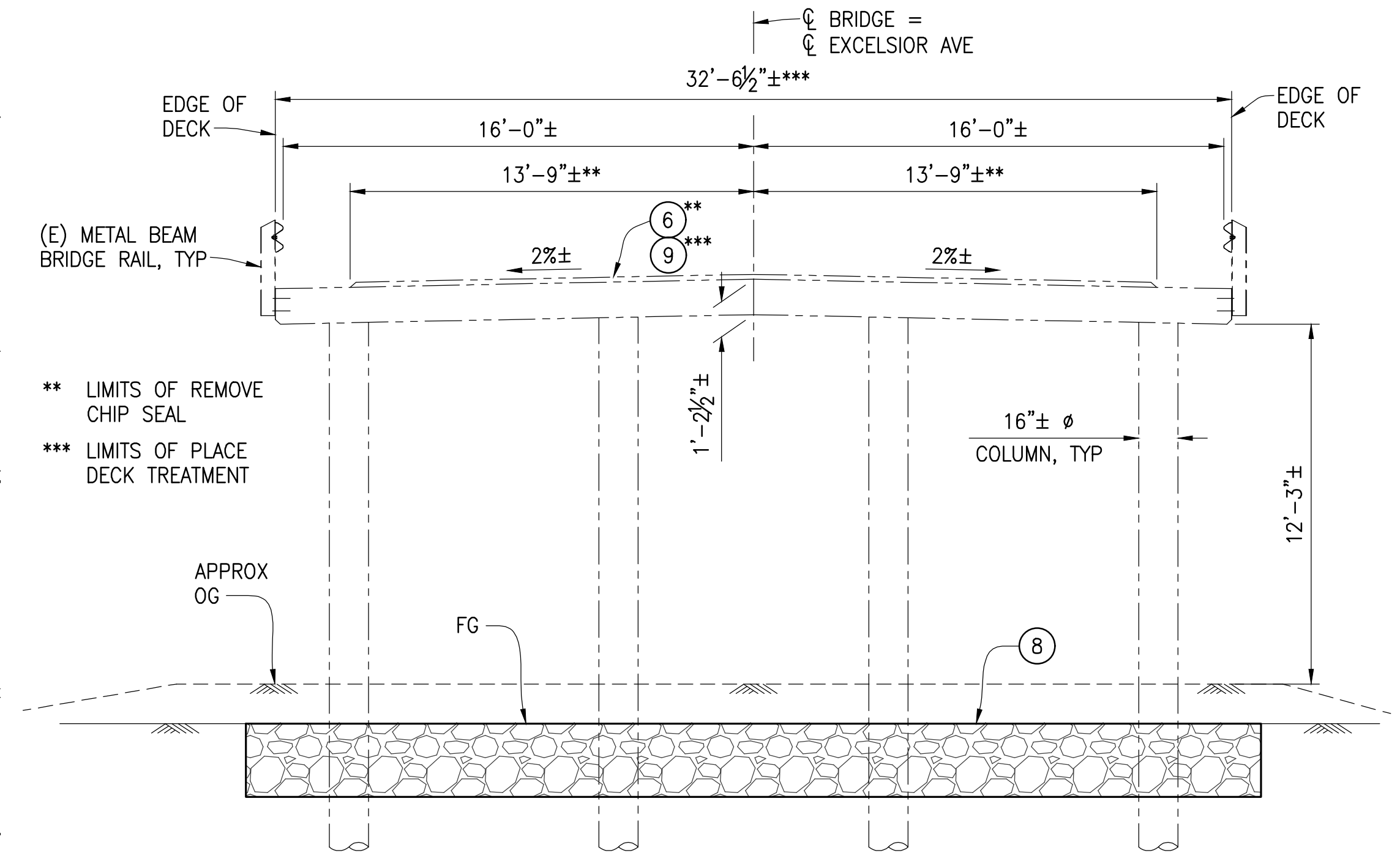


ELEVATION LOOKING SOUTHEAST

ELEVATION
1"=10'



PLAN
1"=10'



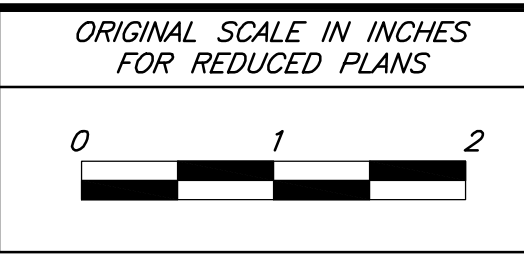
TYPICAL SECTION
1/4"=1'-0"

LEGEND:

- ➔ Indicates Direction of Traffic
 - Indicates Existing Structure
 - 195- Indicates FG Contour
 - ① Existing Concrete Slope Protection to remain
 - ② Existing Irrigation Structure to remain
 - ③ Existing Irrigation Facilities to remain
 - ④ Existing PG&E Power Pole to remain
 - ⑤ Existing PG&E Power Pole
 - ⑥ Remove Chip Seal from bridge deck
 - ⑦ Concrete (Slope Protection) & Cutoff Wall
 - ⑧ Rock Slope Protection
 - ⑨ Place Deck Treatment
 - ⑩ Approach Slab Type R
 - ⑪ Cold Plane and place HMA Overlay, see "ROAD DETAILS" sheet.
 - ⑫ AC Dike, see "ROAD DETAILS" sheet.
 - ⑬ Existing AT&T overhead cable to remain
 - ⑭ Existing PG&E overhead electrical to remain
 - ⑮ Temporary Construction Easement
 - ⑯ Right of Way Acquisition
- NOTES:**
1. For GENERAL NOTES, see "GENERAL LEGEND AND GENERAL NOTES" sheet.

Drawing name: H:\213544_BPM\Fresno County\05-4260104 - FRESNO SLOUGH\2020104_GP.dwg Layout: Top: Standards Sep 11, 2024 - 3:01pm Obertchuluum

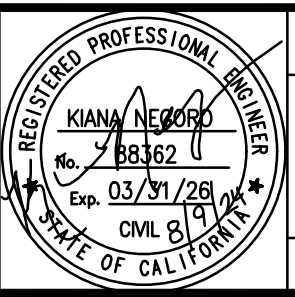
DESIGNED: K. NEGORO	11-30-17
DRAWN: G. IMBSEN	02-27-20
CHECKED: M. CHRISTENSEN	09-10-24



TRC 8050 North Palm Ave., Suite 300
Fresno, California 93711

MARK IMBRIANI
SUPERVISING ENGINEER

09-10-24
DATE:



PROJECT
BPMP SCOUR MITIGATION
AT VARIOUS LOCATIONS

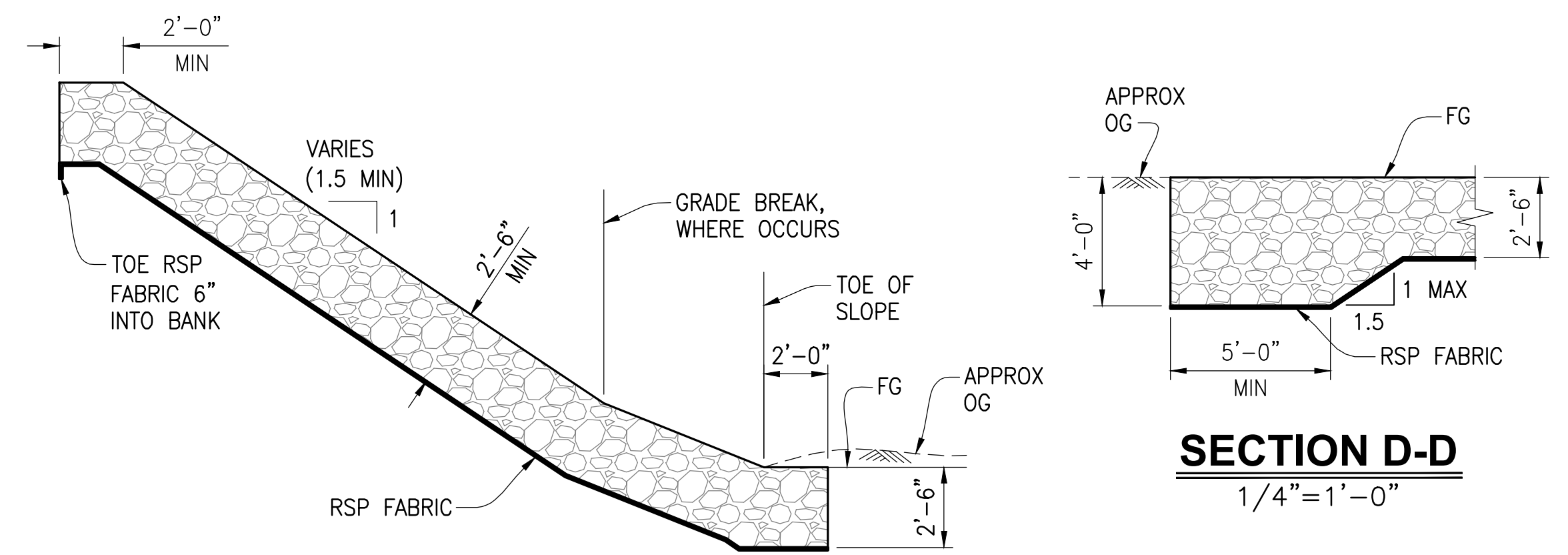
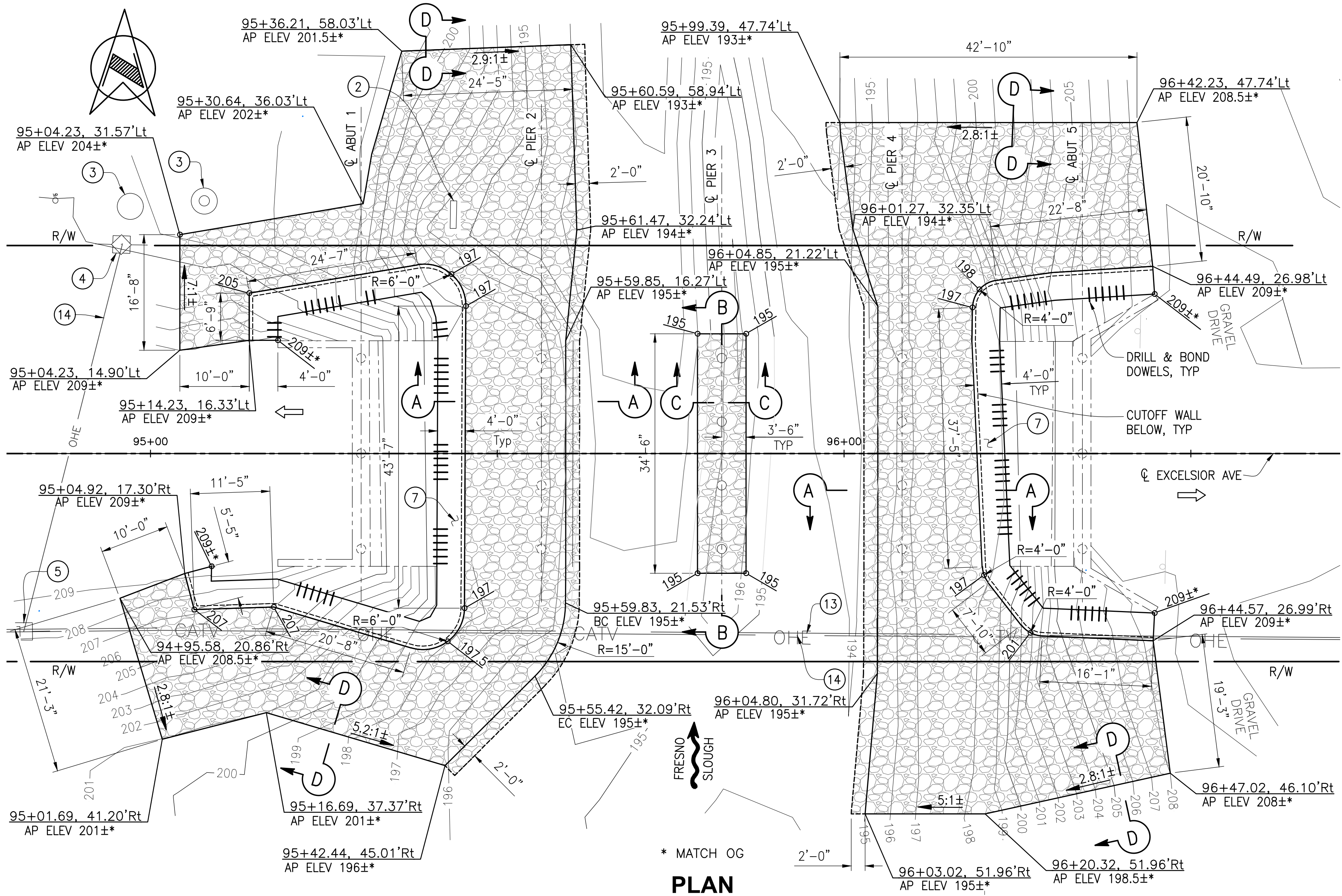
ROAD NO. BRIDGE NO. 42C0104



DEPARTMENT OF PUBLIC WORKS AND PLANNING
GENERAL PLAN
FRESNO SLOUGH BRIDGE AT EXCELSIOR AVENUE

DRAWING NO. 11259 SHEET NO. 15 TOTAL 28

Drawing name: H:\213544_BPMP_Fresno_SLOUGH\20240104_FP.dwg Layout: Top Standards Sep 11, 2024 1:04pm Obachuluan



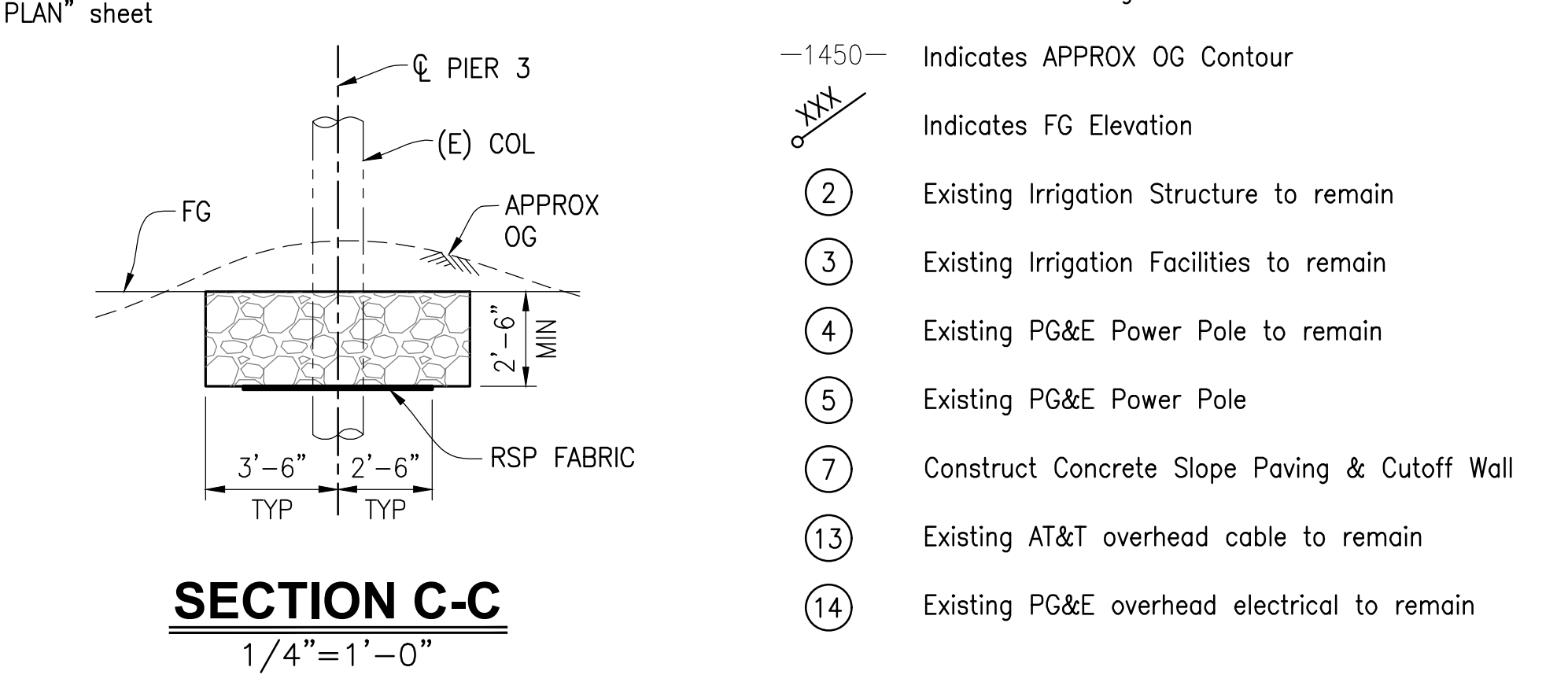
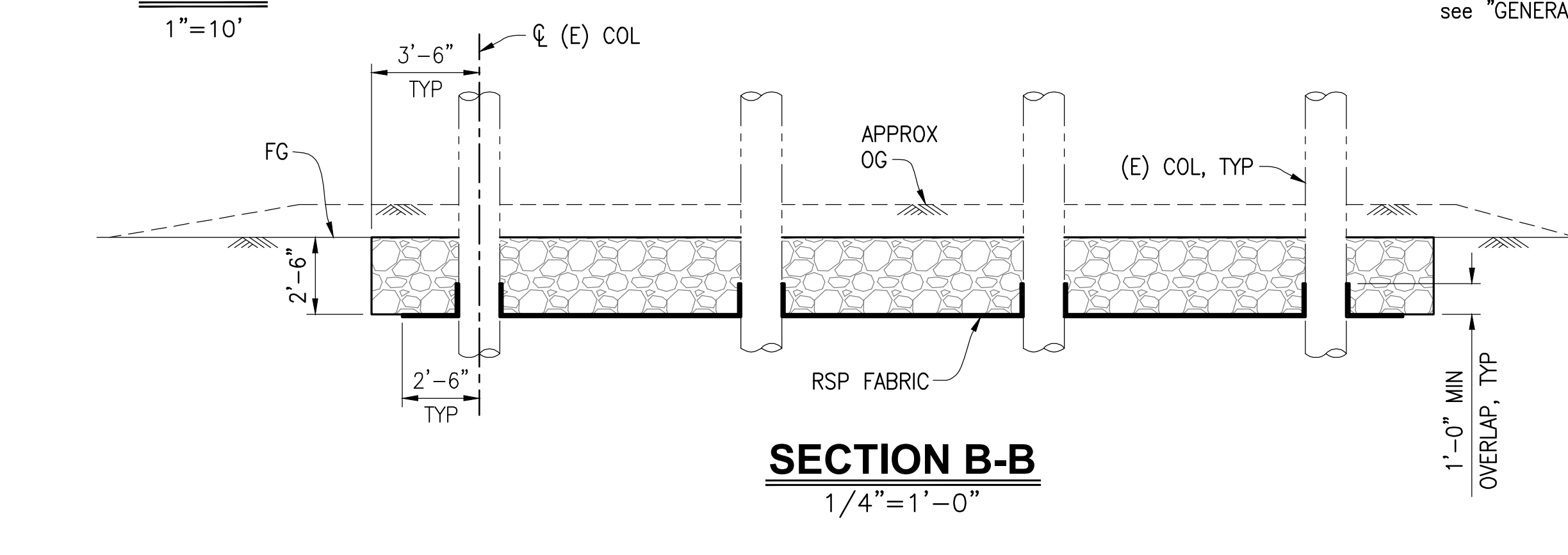
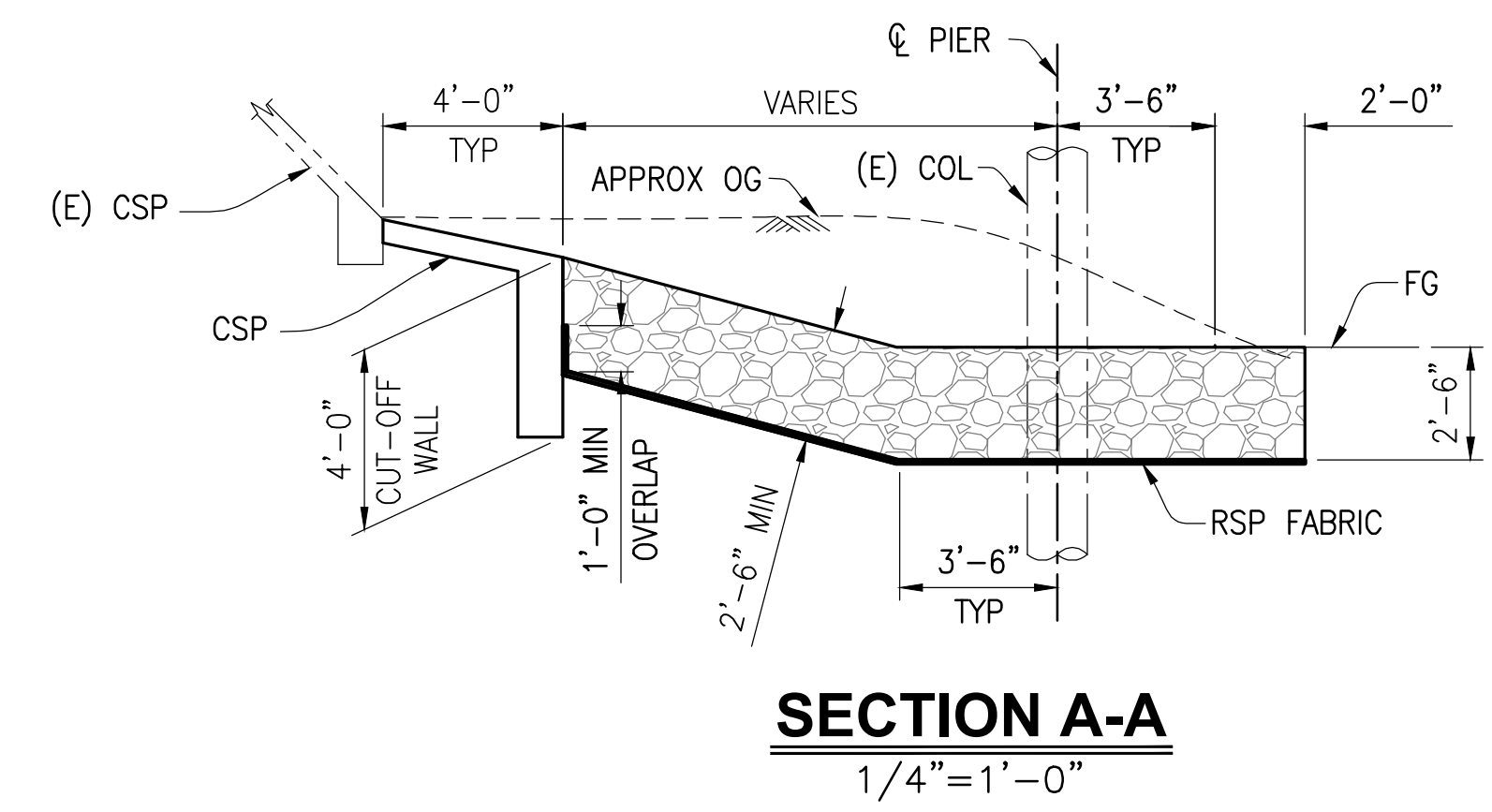
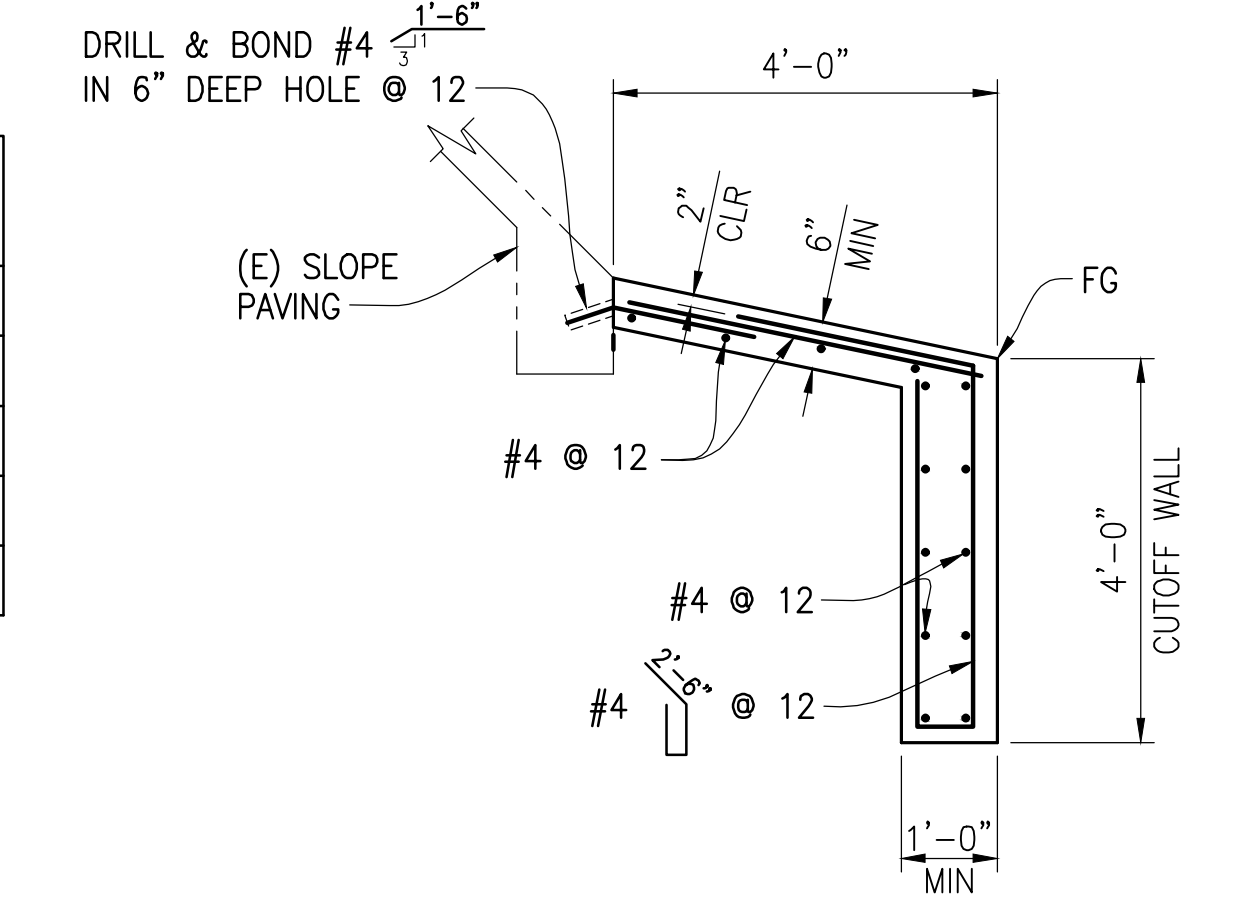
SCOUR DATA TABLE

Support No.	Long Term (Degradation and Contraction) Scour Elevation (ft)	Short Term (Local) Scour Depth (ft)
ABUT 1	198.8'	N/A
Pier 2	192.4'	3.0'
Pier 3	192.4'	3.0'
Pier 4	192.4'	3.0'
ABUT 5	198.8'	N/A

HYDROLOGIC SUMMARY:

Frequency (Years) 100
 Discharge (Cubic feet per sec) 4,750
 Water Surface (Elevation @ Bridge (ft)) 202.72

Floodplain data are based upon information available when the plans were prepared. This information is for the purposes of scour countermeasure design only, and any interested or affected parties should make their own investigation.



- LEGEND:**
- Indicates RSP (150 Lb, Class III, Method B)
 - Indicates Existing Structure
 - Indicates APPROX OG Contour
 - Indicates FG Elevation
 - Existing Irrigation Structure to remain
 - Existing Irrigation Facilities to remain
 - Existing PG&E Power Pole to remain
 - Existing PG&E Power Pole
 - Construct Concrete Slope Paving & Cutoff Wall
 - Existing AT&T overhead cable to remain
 - Existing PG&E overhead electrical to remain

DESIGNED:	DATE
K. NEGORO	11-30-17
DRAWN: A. CARDOZA	07-29-24
CHECKED: M. CHRISTENSEN	09-10-24

FOR R/W DATA AND ACCURATE ACCESS DETERMINATION SEE R/W RECORDS AT PUBLIC WORKS

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

TRC 8050 North Palm Ave., Suite 300
Fresno, California 93711

MARK IMBRIANI
SUPERVISING ENGINEER

09-10-24
DATE:

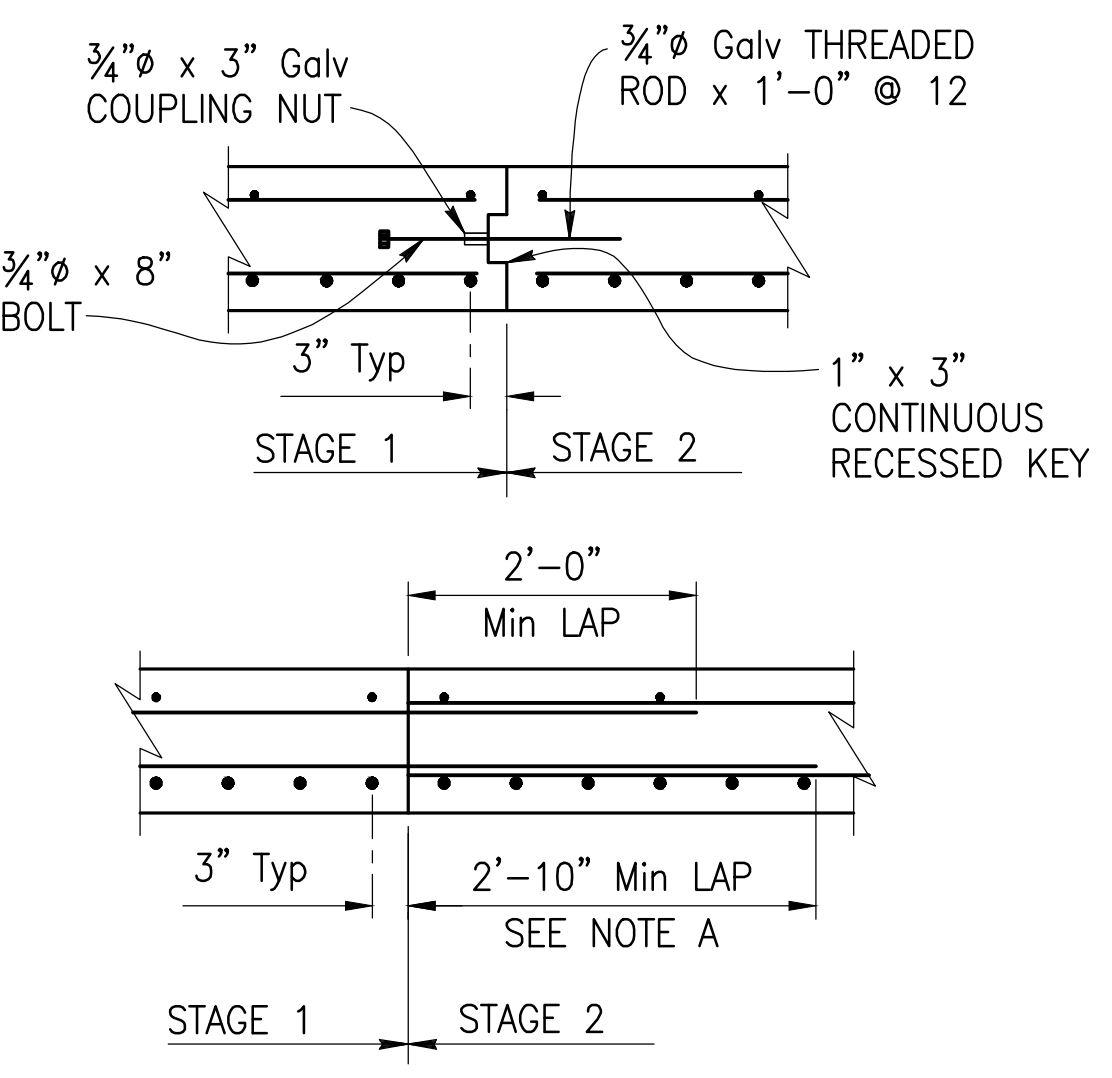
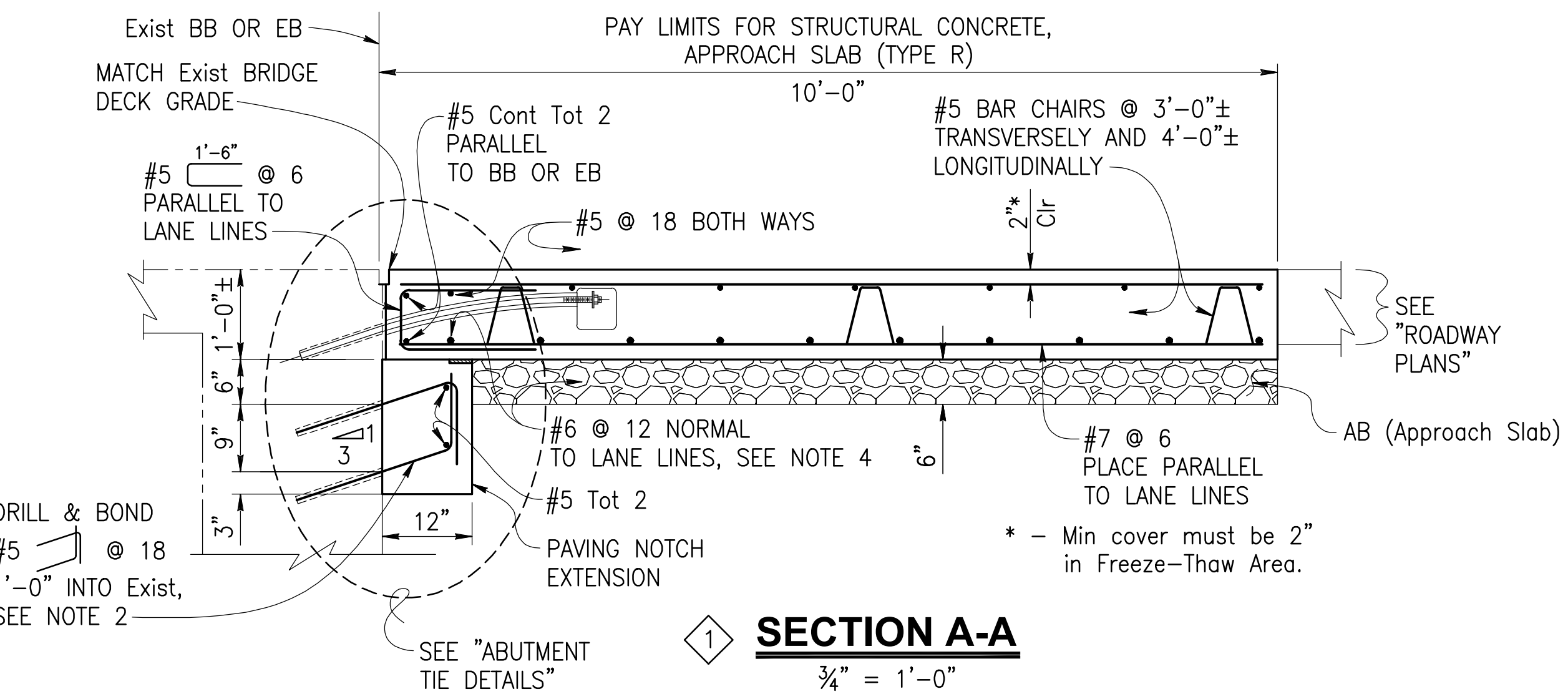
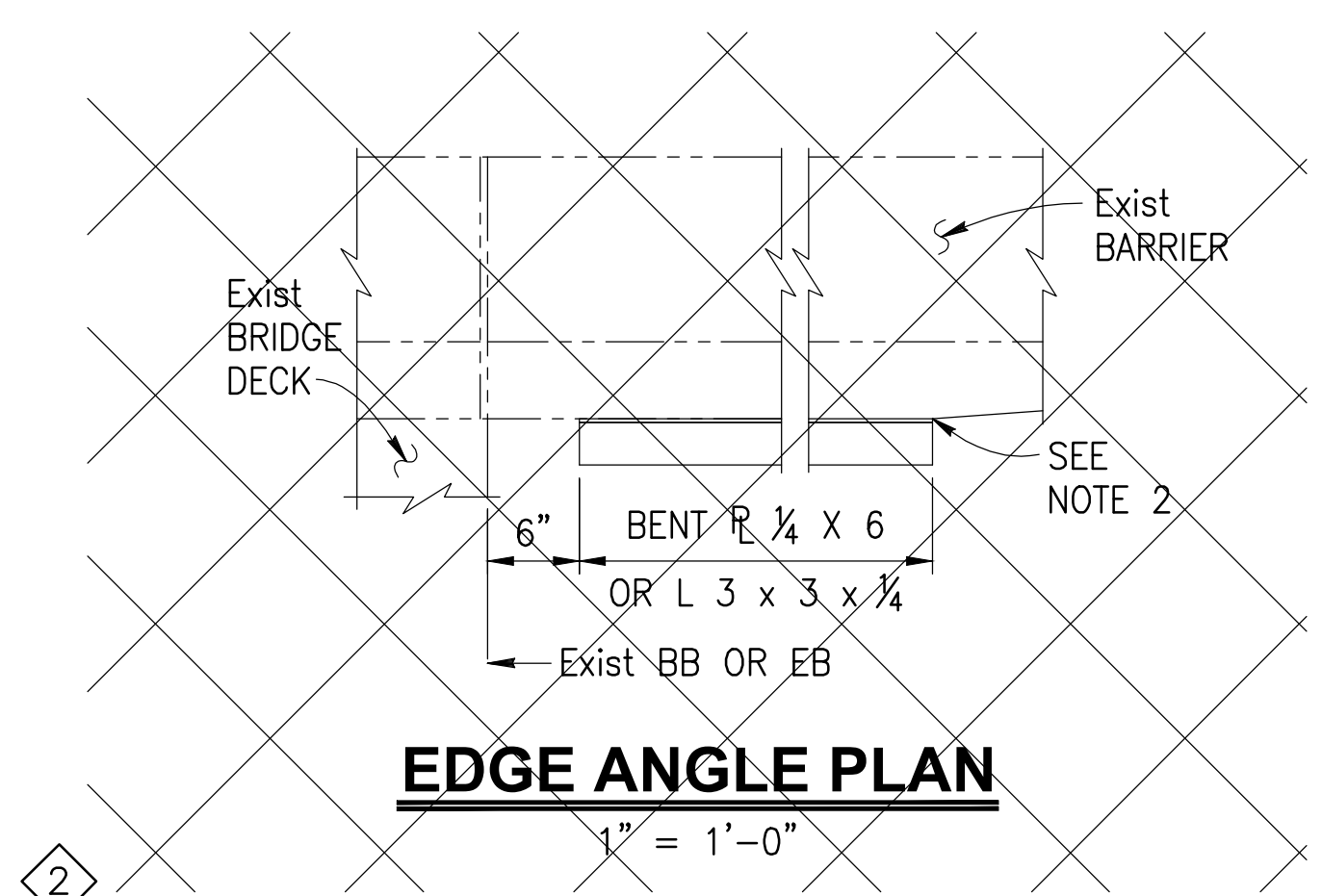
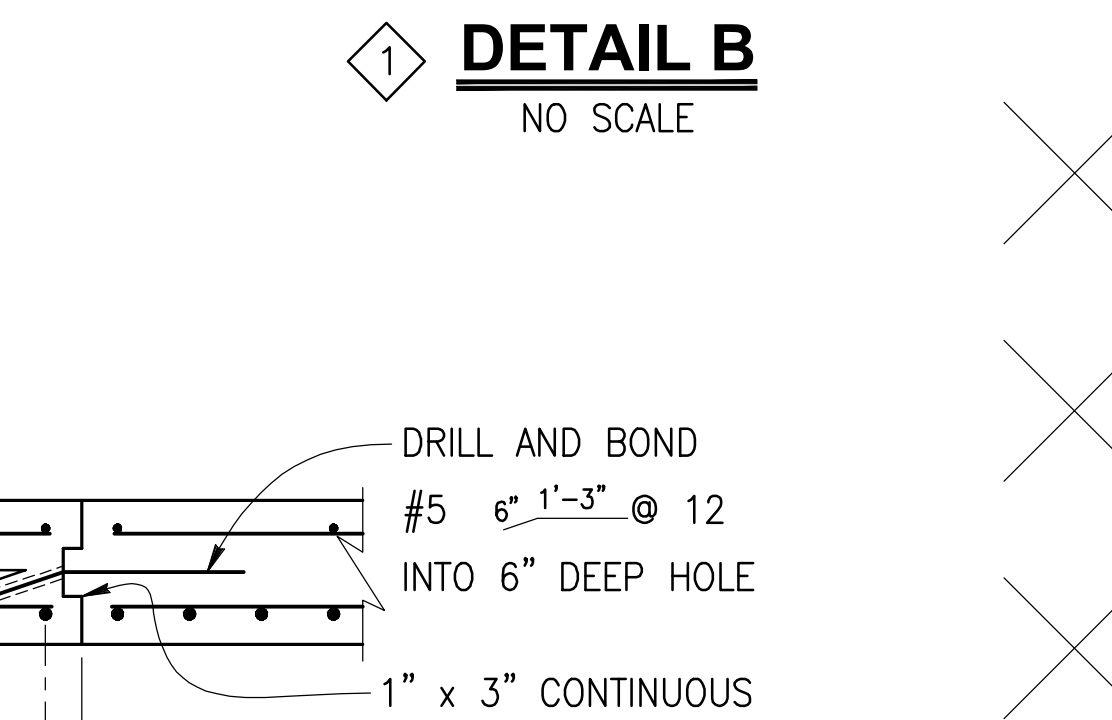
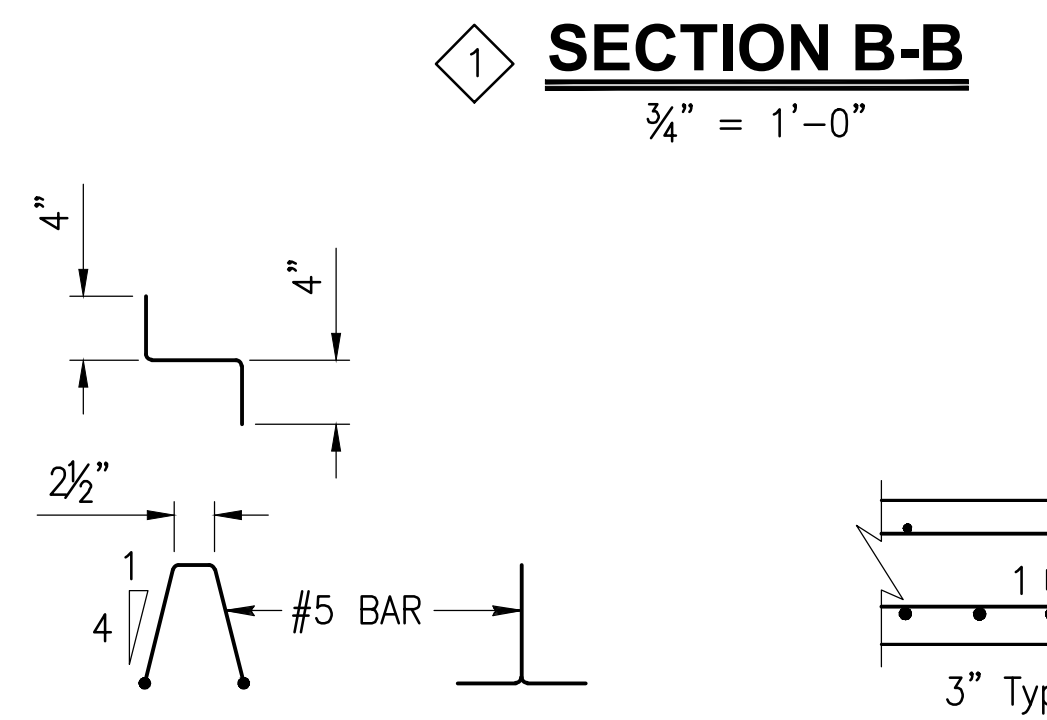
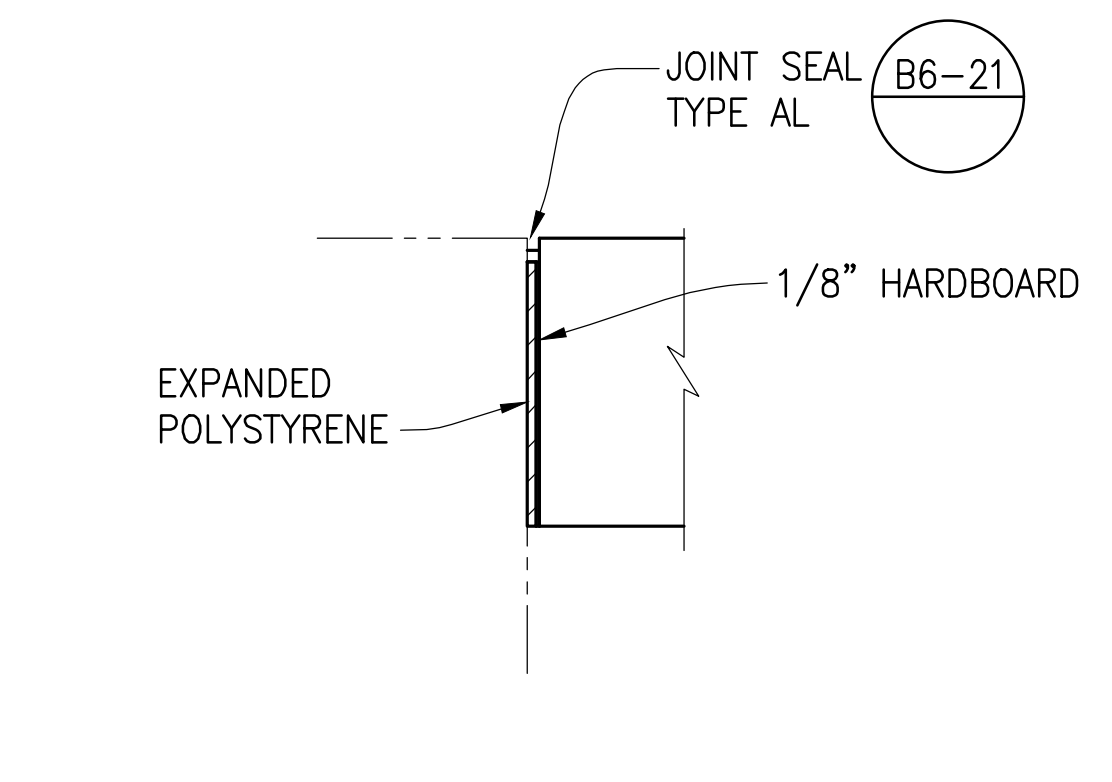
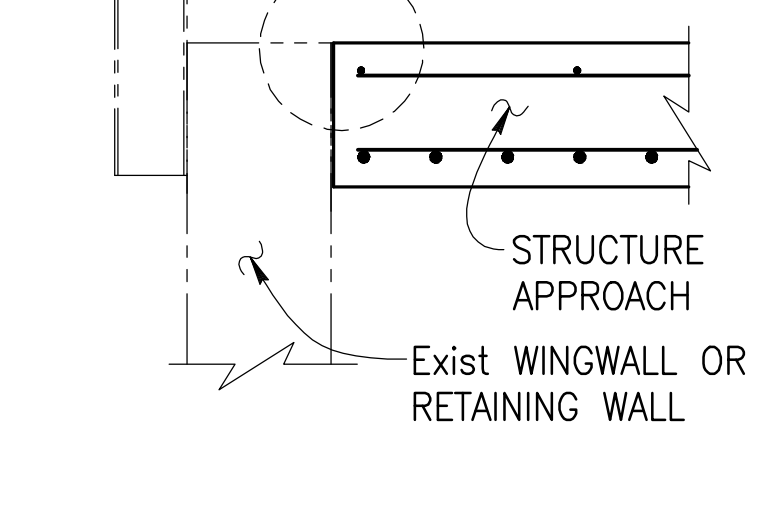
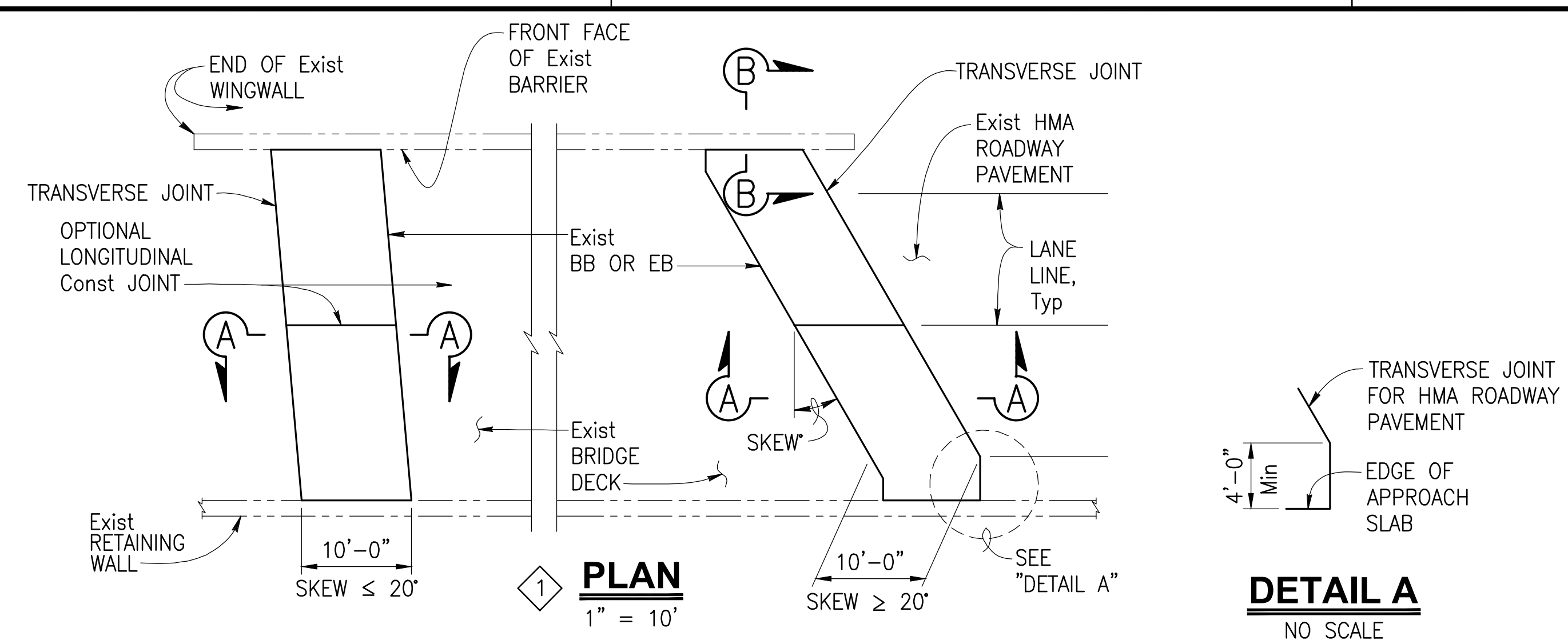
PROJECT
BPMP SCOUR MITIGATION AT VARIOUS LOCATIONS

ROAD NO. BRIDGE NO. 42C0104

DEPARTMENT OF PUBLIC WORKS AND PLANNING
FOUNDATION PLAN
FRESNO SLOUGH BRIDGE AT EXCELSIOR AVENUE

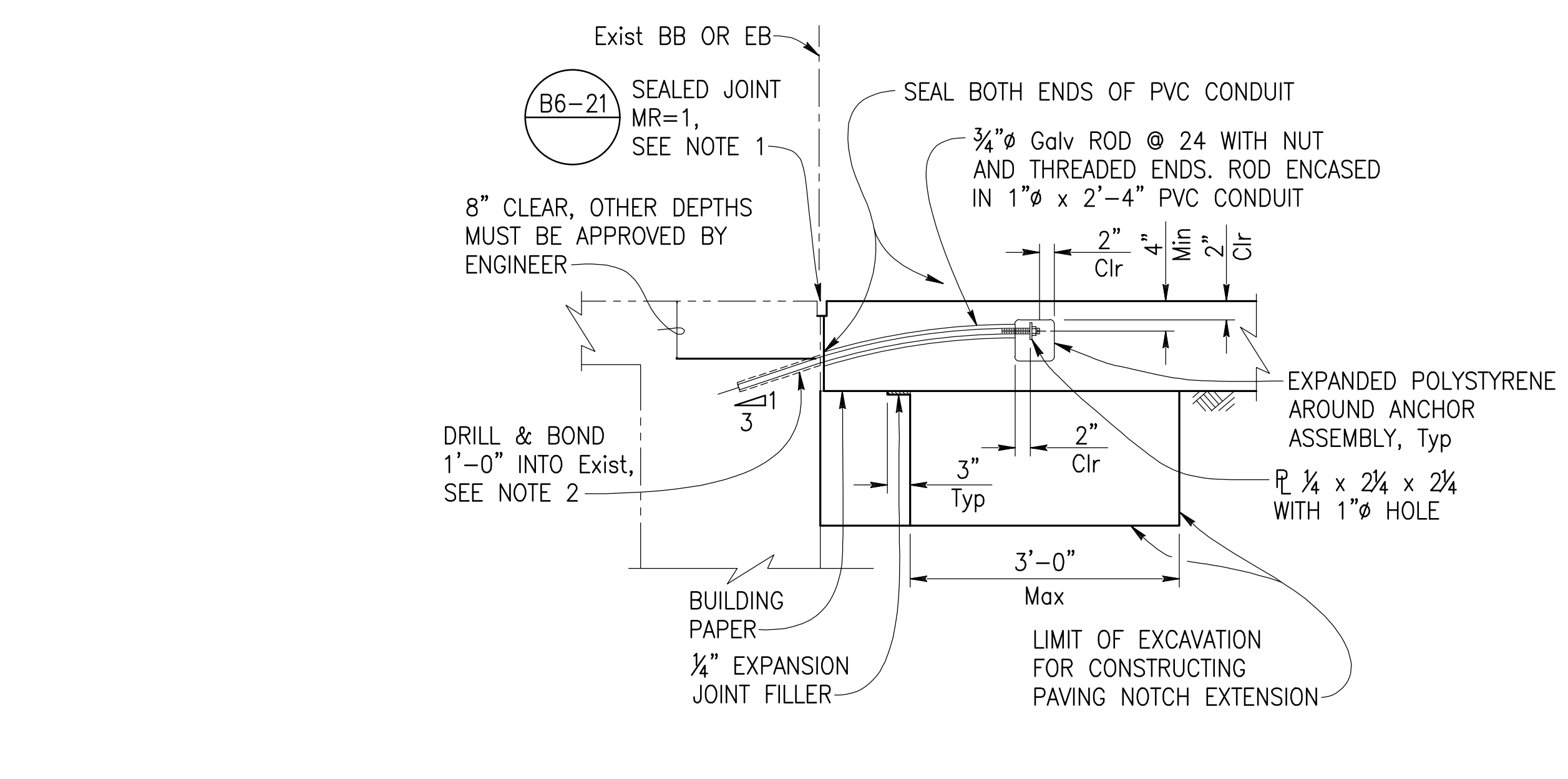
DRAWING NO. 11259 SHEET NO. 16 TOTAL 28

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre				
REGISTERED CIVIL ENGINEER			DATE		
PLANS APPROVAL DATE			REGISTERED PROFESSIONAL ENGINEER		
			ROBIN E. YATES		
			No. 76631		
			Exp. 12-31-16		
			CIVIL		
			STATE OF CALIFORNIA		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



NOTE A:
Min lap splice for bottom Reinf must be 3'-6" in Freeze-Thaw Area.

LONGITUDINAL CONSTRUCTION JOINT ALTERNATIVES
3/4" = 1'-0"



ABUTMENT TIE DETAILS
3/4" = 1'-0"

- DESIGN NOTES**
- DESIGN: AASHTO LRFD Bridge Design Specifications, 2012 Edition with Caltrans Amendments, preface dated January 2014
- LIMIT STATES: Service I, Strength I & II, Extreme II and Fatigue I (Y_{FAT} = 1.0)
- DEAD LOAD: Includes 35 psf for future wearing surface
- LIVE LOAD: HL93 and permit design load
Equivalent strip width method: W₁ = 12 ft
Slab span: L₁ = 7.83 ft
- REINFORCED CONCRETE:
f_c = 60 ksi
f_s = 3.6 ksi
n = 8
- NOTES:
- For joint protection details and other details not shown, see other plan sheets. Adjust reinforcement to clear sawcut for sealed joint.
 - Space reinforcement to avoid existing prestress anchorages and other abutment reinforcement.
 - End the plate or edge angle at beginning of barrier transition, end of wingwall, or end of structure approach as applicable.
 - At the Contractor's option, approach slab transverse reinforcement may be placed parallel to BB or EB. Spacing of transverse reinforcement is measured along \bar{C} roadway.
- Indicates Existing Structure

SPECIAL DETAILS

BPMP SCOUR MITIGATION
FRESNO SLOUGH BRIDGE AT EXCELSIOR AVENUE
STRUCTURE APPROACH TYPE R (10D)

Drawing name: H:\213544_BPMP_Fresno County\3-180.dwg Layout Tab: Layout1 Sep 11, 2024 - 1:20pm DBachaluan

REVISED STANDARD DRAWING	1 Revised Detail
FILE NO. xs3-170	2 Does Not Apply
APPROVAL DATE January 2015	

NOTE: THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

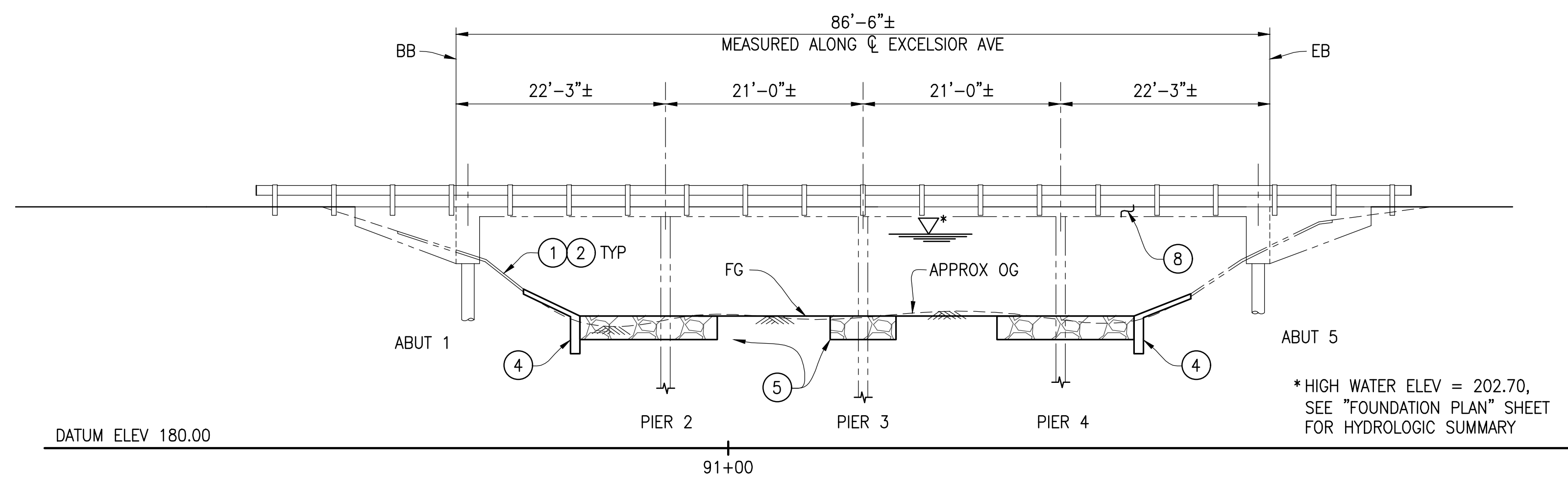
STATE OF CALIFORNIA	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 42C0104
DEPARTMENT OF TRANSPORTATION		POST MILE

UNIT: PROJECT NUMBER & PHASE: CONTRACT NO.: DISREGARD PRINTS BEARING EARLIER REVISION DATES

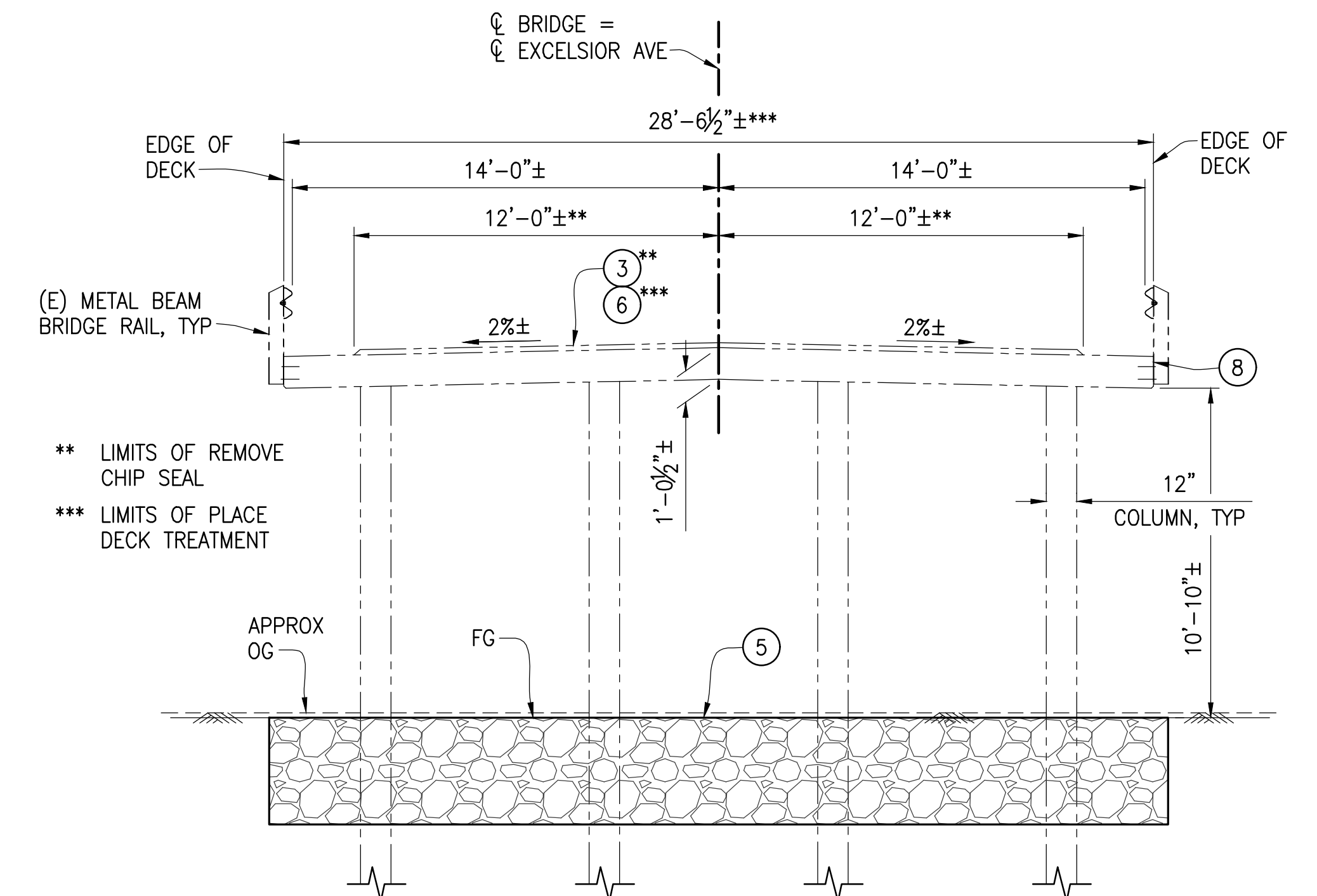
FILE => \$REQUEST

REVISION DATES	SHEET 18	OF 28
11-25-15		

DATE PLOTTED => \$DATE USERNAME => \$USER TIME PLOTTED => \$TIME



ELEVATION LOOKING NORTH



TYPICAL SECTION

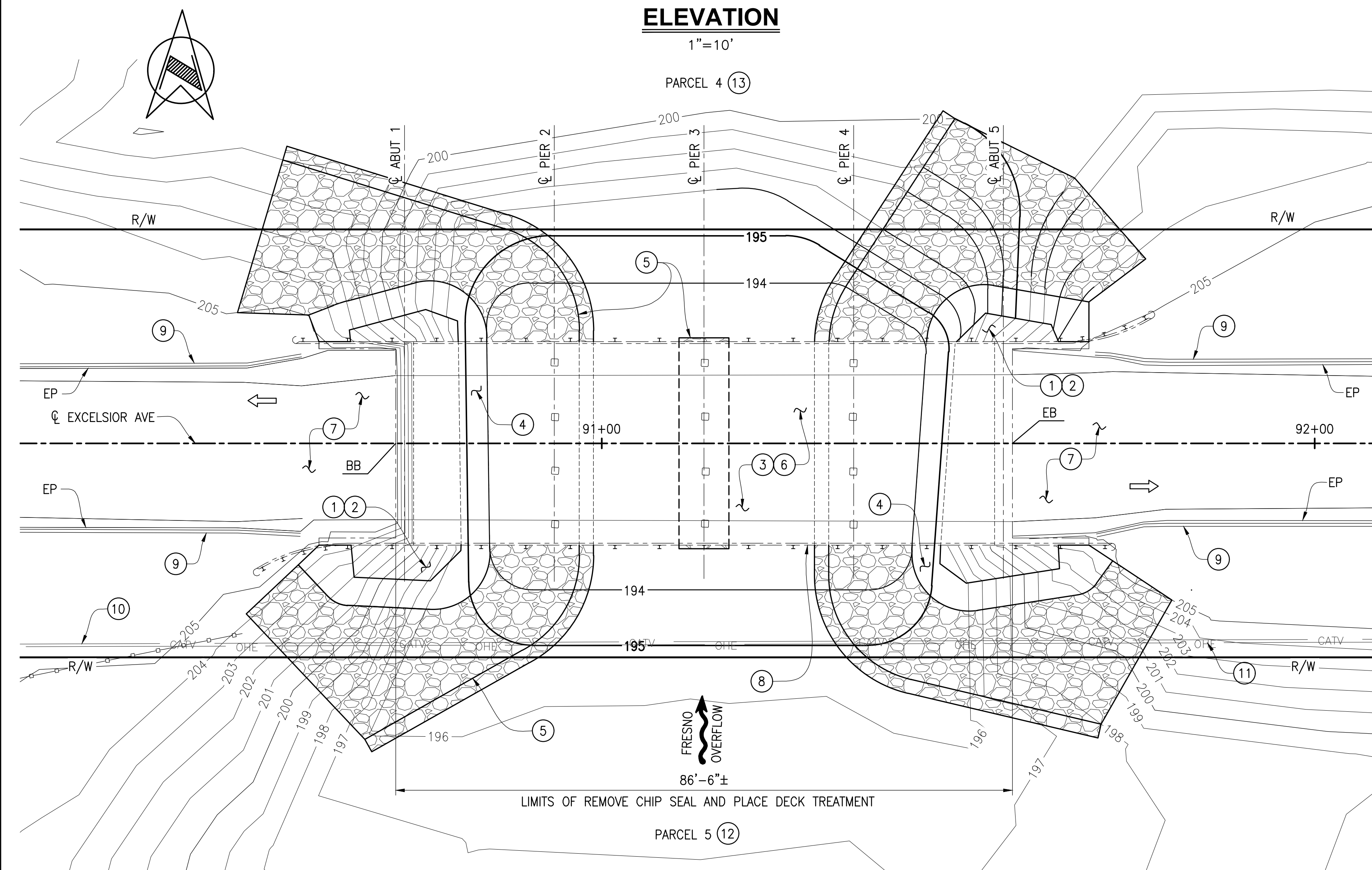
1/4" = 1'-0"

LEGEND:

- ➔ Indicates Direction of Traffic
- Indicates Existing Structure
- 195- Indicates FG Contour
- (1) Existing Concrete Slope Protection to remain
- (2) Seal or Inject cracks in existing concrete slope protection
- (3) Remove Chip Seal from bridge deck
- (4) Concrete (Slope Protection) & Cutoff Wall
- (5) Rock Slope Protection
- (6) Place Deck Treatment
- (7) Cold Plane and place HMA Overlay, see "ROAD DETAILS" sheet.
- (8) Repair Spalled Surface Area, see "MISCELLANEOUS DETAILS" sheet.
- (9) AC Dike, see "ROAD DETAILS" sheet.
- (10) Existing AT&T overhead cable to remain
- (11) Existing PG&E overhead electrical to remain
- (12) Right of Way Acquisition
- (13) Temporary Construction Easement

NOTES:

1. For GENERAL NOTES, see "GENERAL LEGEND AND GENERAL NOTES" sheet.

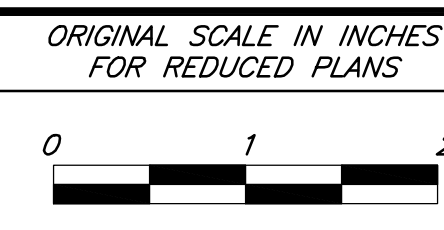


PLAN

1" = 10'

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

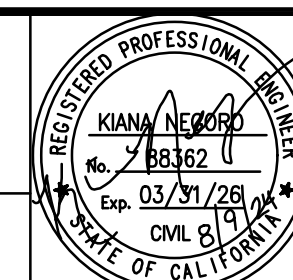
DESIGNED: K. NEGORO	DATE: 11-30-17
DRAWN: G. IMBSEN	DATE: 02-27-20
CHECKED: M. CHRISTENSEN	DATE: 09-10-24



TRC 8050 North Palm Ave., Suite 300
Fresno, California 93711

MARK IMBRIANI
SUPERVISING ENGINEER

09-10-24
DATE:



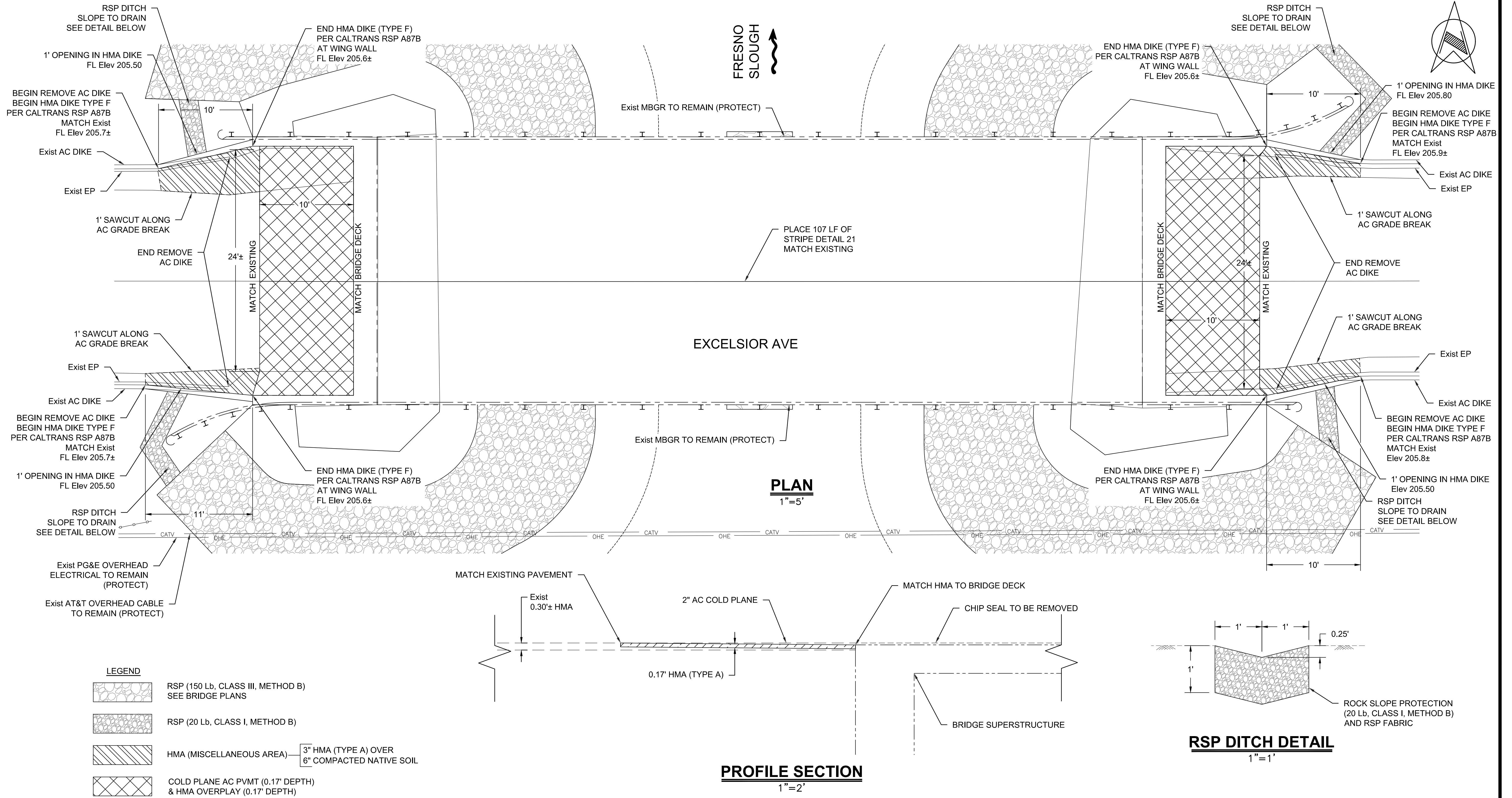
PROJECT
BPMP SCOUR MITIGATION
AT VARIOUS LOCATIONS



DEPARTMENT OF PUBLIC WORKS AND PLANNING
GENERAL PLAN
FRESNO SLOUGH OVERFLOW BRIDGE AT EXCELSIOR Ave

Drawing name: H:\213544_BPMP_Fresno_County\06-42C0367 - FRESNO SLOUGH OVERFLOW BRIDGE\42C0367_GP.dwg Layout Tab: Standards Sep 11, 2024 - 1:42pm @bchahulan

Drawing name: H:\213544_BPMP_Fresno_Slough_Overflow\42C0367 - Fresno Slough Overflow\42C0367 - Road Details.dwg
 Layout Tab: 42C0367_PP_Sep_11_2024 - 3:50pm 06batchuluun



**FRESNO SLOUGH OVERFLOW AT EXCELSIOR BRIDGE (42C0367) HMA APPROACH REPAIR
TYPICAL DETAIL AT BOTH ENDS OF BRIDGE**

DESIGNED:	DATE
A. BEDAL	06-07-24
DRAWN:	DATE
O. BATCHULUUN	06-10-24
CHECKED:	DATE
J. CONKLIN	09-10-24

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS
PLAN 0 5' 10' HZ
PROFILE 0 2' 4' VT

TRC
8050 North Palm Ave., Suite 300
Fresno, California 93711

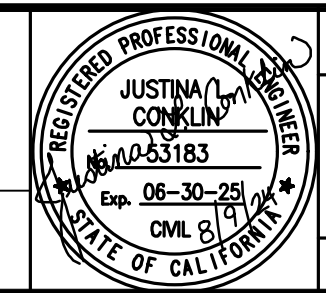
MARK IMBRIANI
SUPERVISING ENGINEER

09-10-24
DATE:

PROJECT

BPMP SCOUR MITIGATION
AT VARIOUS LOCATIONS

ROAD NO. _____ BRIDGE NO. 42C0367

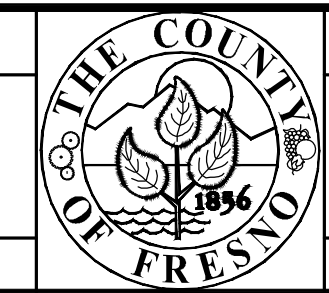


DEPARTMENT OF PUBLIC WORKS AND PLANNING

ROAD DETAILS

FRESNO SLOUGH OVERFLOW BRIDGE AT EXCELSIOR Ave

DRAWING NO. 11259 SHEET NO. 21 TOTAL 28



DEPARTMENT OF PUBLIC WORKS AND PLANNING

ROAD DETAILS

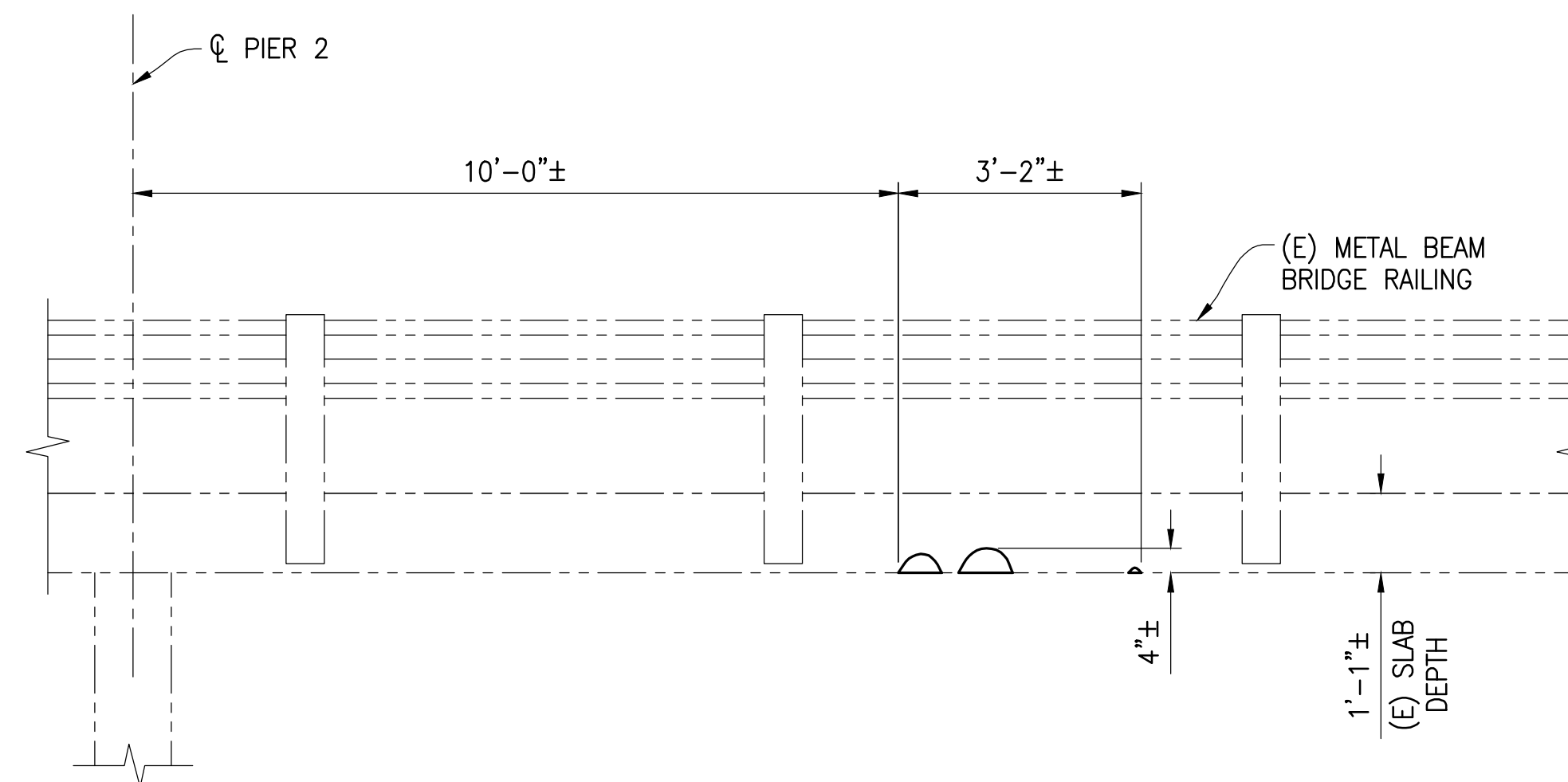
FRESNO SLOUGH OVERFLOW BRIDGE AT EXCELSIOR Ave

DRAWING NO. 11259 SHEET NO. 21 TOTAL 28

Drawing name: H:\213544_BPMP_Fresno County\06-420367 - FRESNO SLOUGH OVERFLOW\420367_Misc_Details.dwg Layout Tab: Standards Aug 29, 2024 - 10:27 pm @Batchuluun



SPALLS ALONG SOUTH EDGE OF DECK



PATCH SPALLS ALONG SOUTH EDGE OF DECK

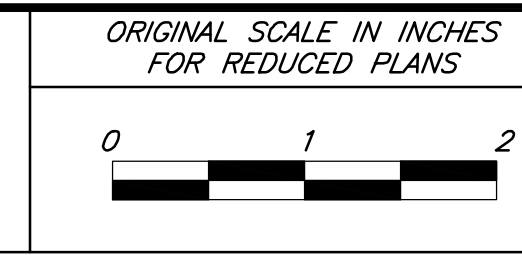
1/2" = 1'-0"

LEGEND:

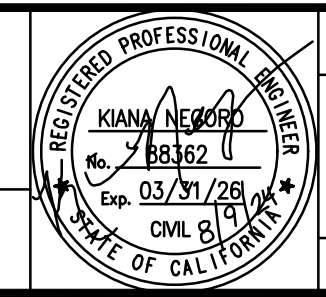
- Indicates Proposed Improvements
- - - - - Indicates Existing Structure

NOTE:
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

	DATE
DESIGNED: K. NEGORO	11-30-17
DRAWN: K. NEGORO	07-29-24
CHECKED: M. CHRISTENSEN	08-30-24




 8050 North Palm Ave., Suite 300
 Fresno, California 93711
 MARK IMBRIANI
 SUPERVISING ENGINEER:

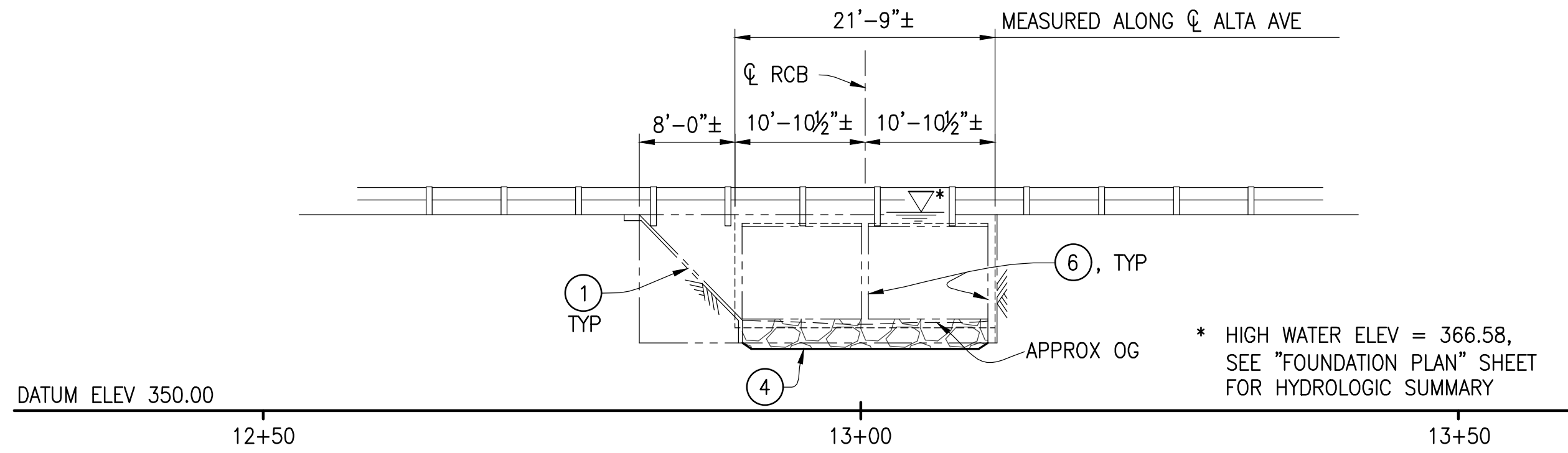


PROJECT	
BPMP SCOUR MITIGATION AT VARIOUS LOCATIONS	
ROAD NO.	BRIDGE NO. 42C0367



DEPARTMENT OF PUBLIC WORKS AND PLANNING		
MISCELLANEOUS DETAILS		
FRESNO SLOUGH OVERFLOW BRIDGE AT EXCELSIOR Ave		
DRAWING NO. 11259	SHEET NO. 22	TOTAL 28

FOR R/W DATA AND ACCURATE ACCESS DETERMINATION SEE R/W RECORDS AT PUBLIC WORKS

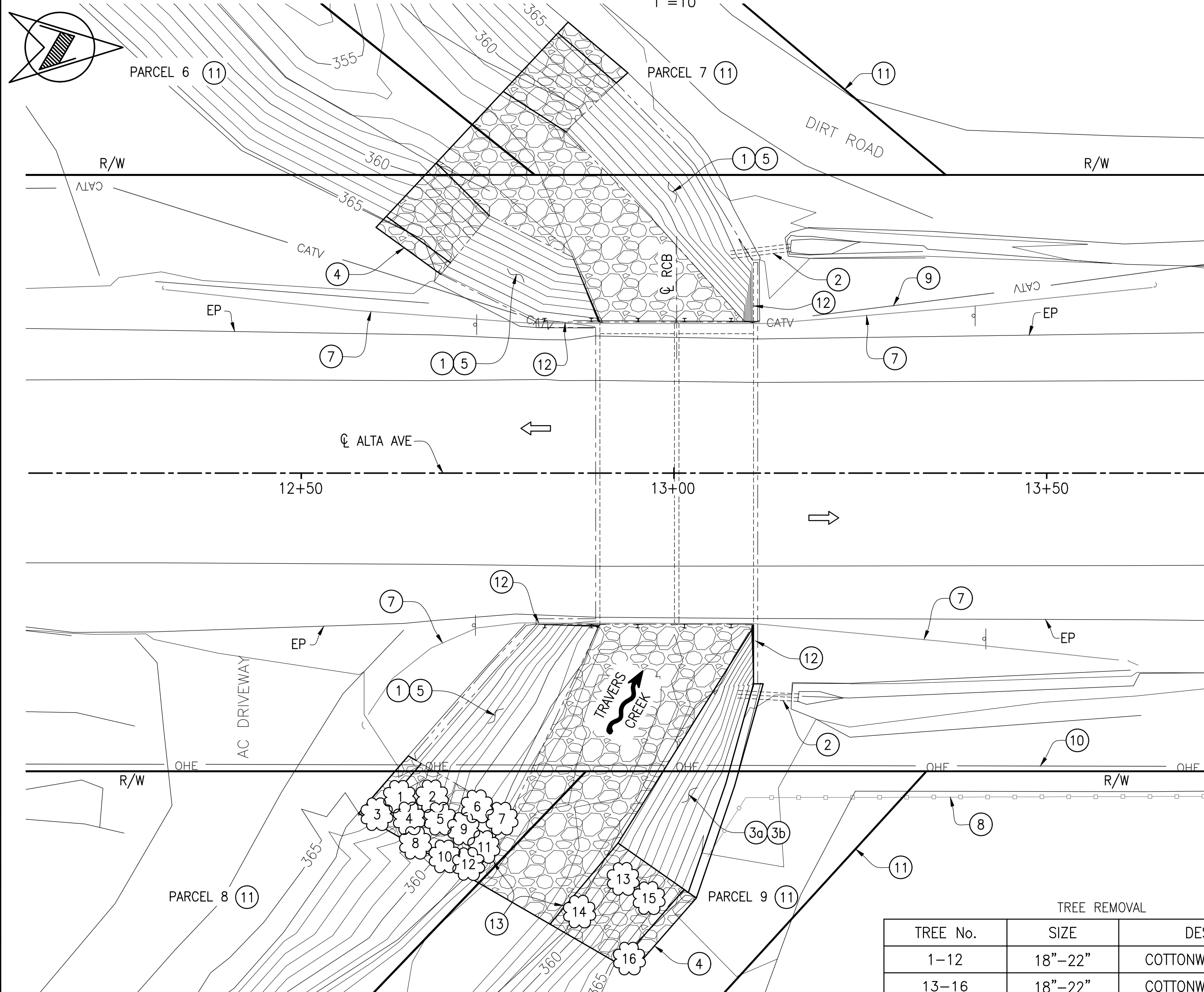


ELEVATION

1"=10'



ELEVATION LOOKING NORTHEAST

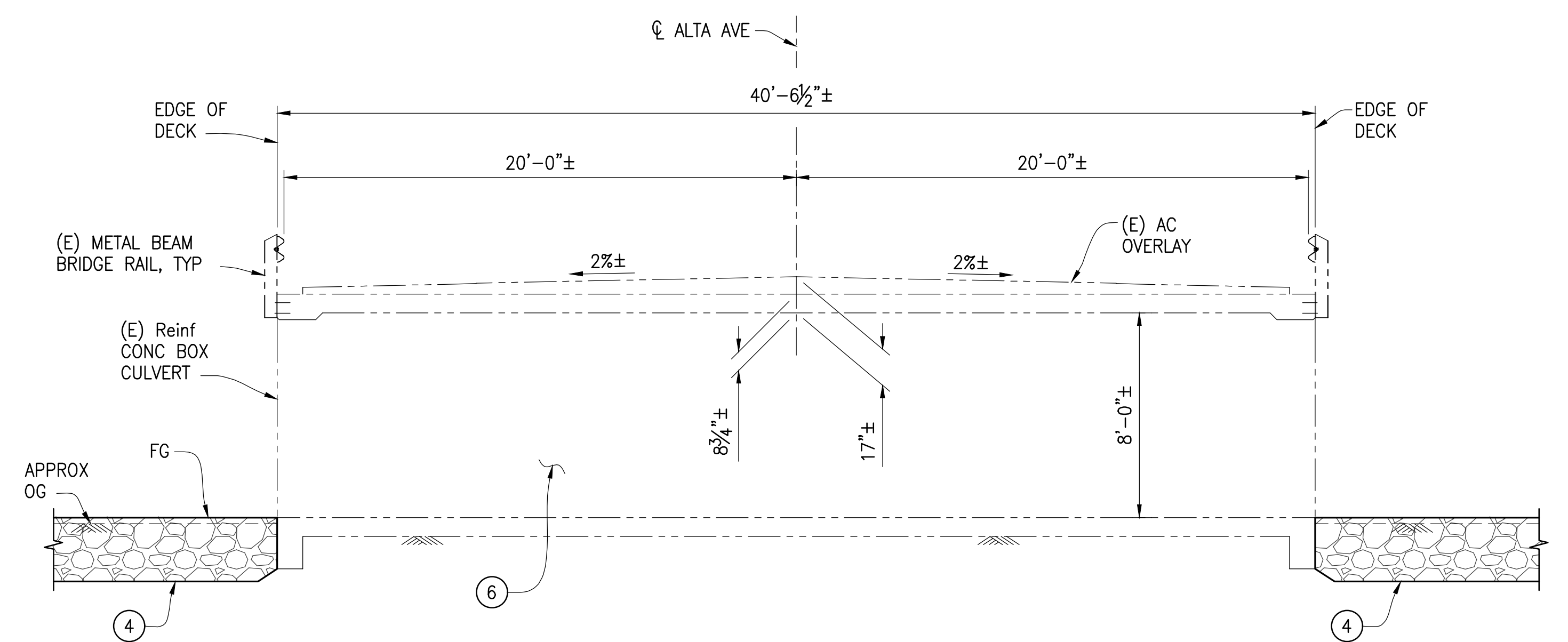


PLAN

1"=10'

TREE REMOVAL

TREE No.	SIZE	DESCRIPTION
1-12	18"-22"	COTTONWOOD & WILLOW
13-16	18"-22"	COTTONWOOD & WILLOW



TYPICAL SECTION

1/4"=1'-0"

LEGEND:

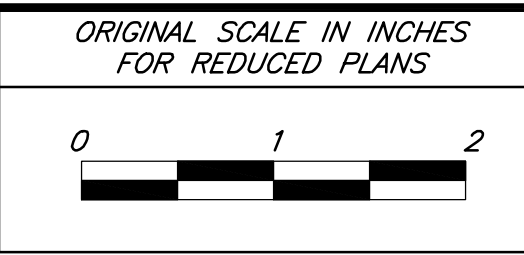
- Indicates Direction of Traffic
- Indicates Existing Structure
- (X) Remove Tree
- (1) Existing Concrete Slope Protection to remain
- (2) Existing 12" CMP to remain
- (3a) Remove Concrete Slope Paving
- (3b) Concrete (Slope Protection)
- (4) Rock Slope Protection
- (5) Seal or Inject cracks in existing Concrete Slope Protection
- (6) Repair Abraded Surface Area
- (7) Existing MBGR to remain
- (8) Existing fence to remain
- (9) Existing Verizon communication to remain
- (10) Existing PG&E overhead electrical to remain
- (11) Right of Way Acquisition
- (12) Seal gaps between Concrete Slope Protection and Culvert Wingwalls (Seal >1/4" Crack)

NOTE:

1. For GENERAL NOTES, see "GENERAL LEGEND AND GENERAL NOTES" sheet.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

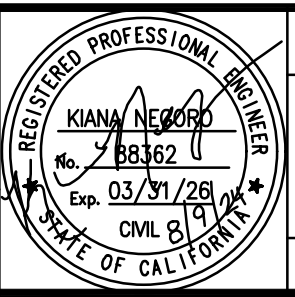
DESIGNED:	DATE
K. NEGORO	11-30-17
DRAWN:	DATE
G. IMBSEN	07-29-24
CHECKED:	DATE
M. CHRISTENSEN	09-10-24



TRC 8050 North Palm Ave., Suite 300
Fresno, California 93711

MARK IMBRIANI
SUPERVISING ENGINEER

09-10-24
DATE:



PROJECT

BPMP SCOUR MITIGATION AT VARIOUS LOCATIONS

ROAD NO. _____ BRIDGE NO. 42C0179



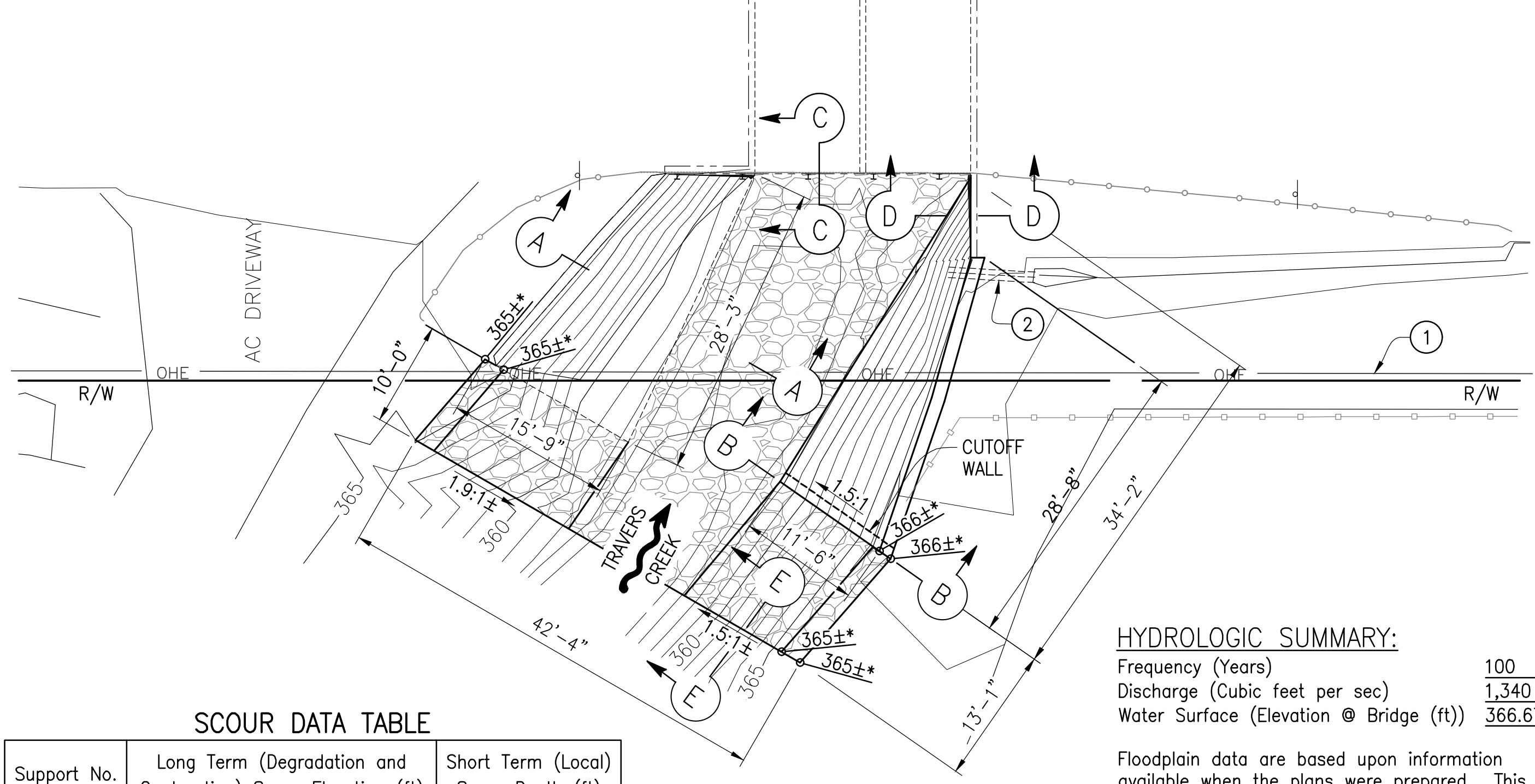
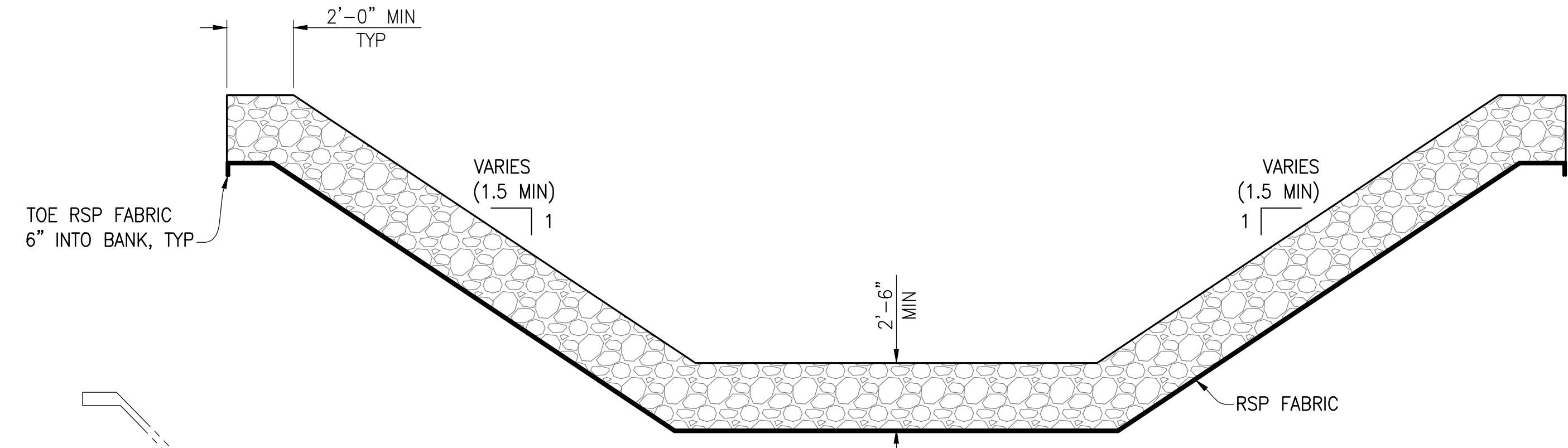
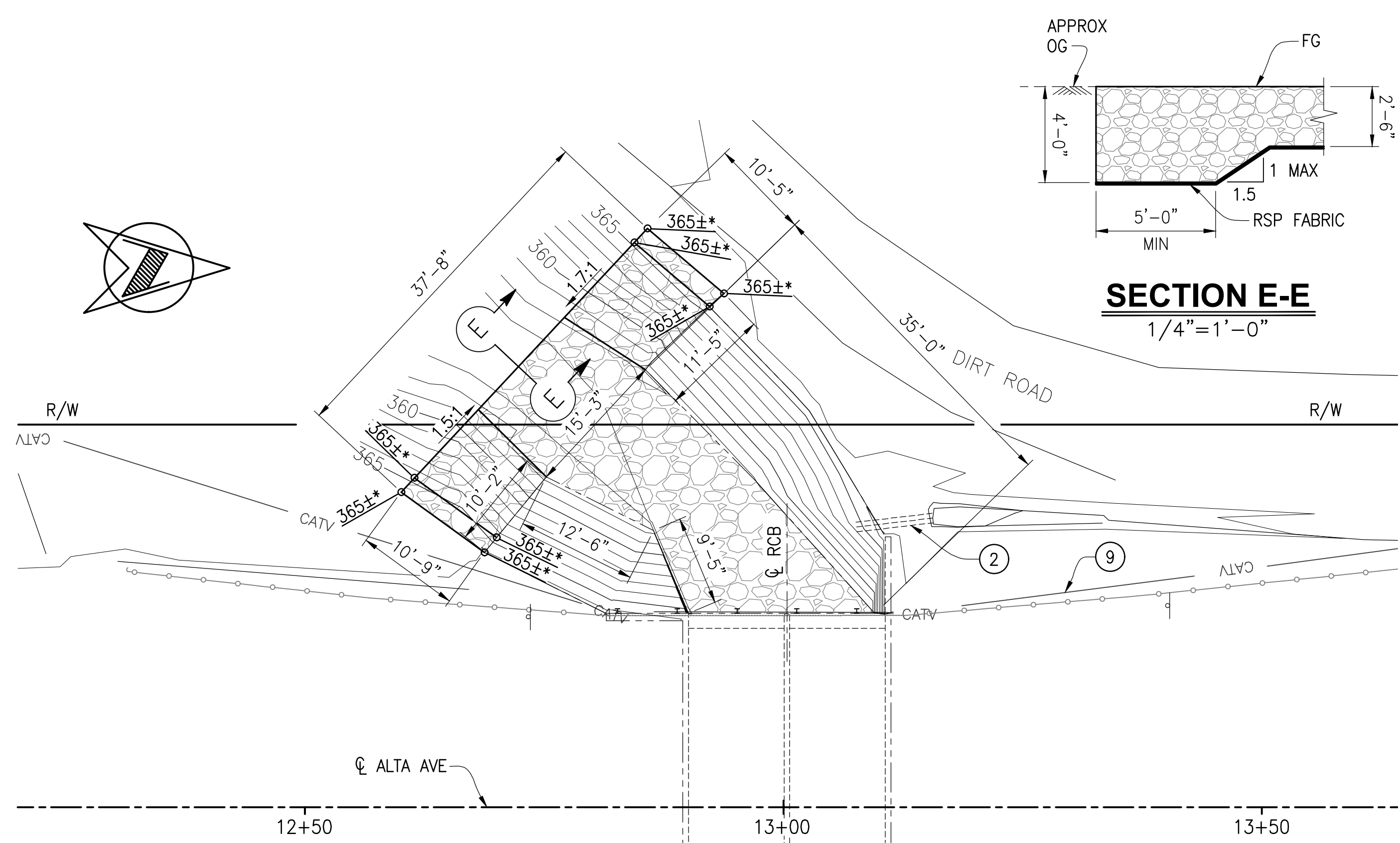
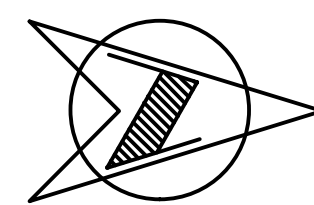
DEPARTMENT OF PUBLIC WORKS AND PLANNING

GENERAL PLAN

TRIVERS CREEK CULVERT AT ALTA AVENUE

DRAWING NO. 11259 SHEET NO. 23 TOTAL 28

Drawing name: H:\213544_BPMP_Fresno_County\009-42C0179 - TRIVERS CREEK\42C0179_GP.dwg Layout Tab: Standards Sep 11, 2024 - 3:05pm DBatchulian



SCOUR DATA TABLE

Support No.	Long Term (Degradation and Contraction) Scour Elevation (ft)	Short Term (Local) Scour Depth (ft)
RCB	355.2'	N/A

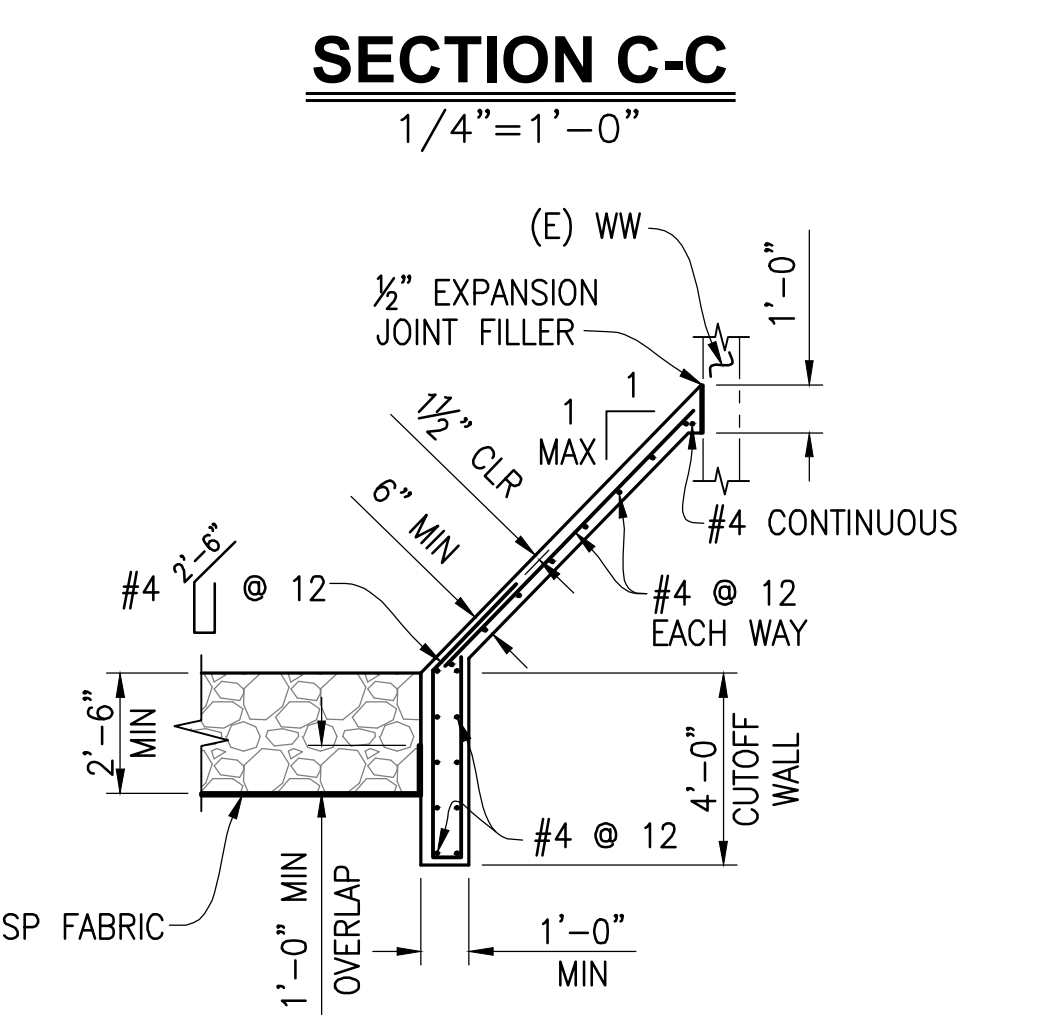
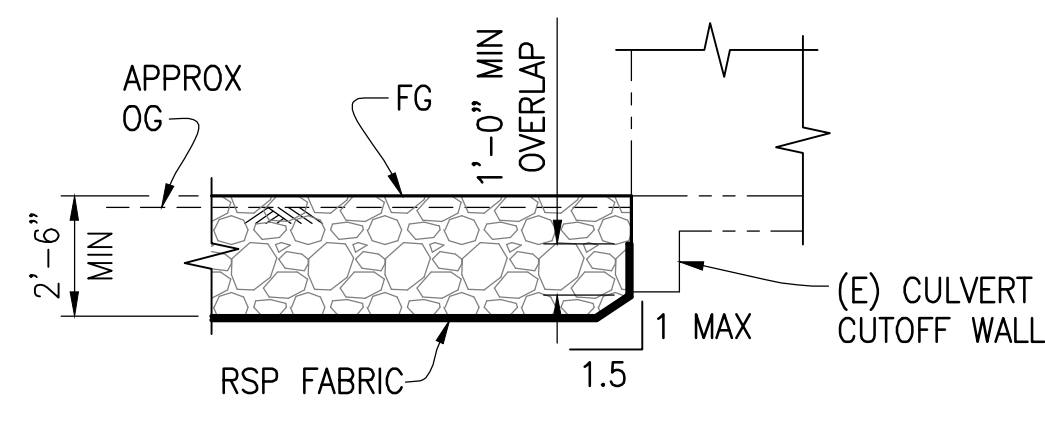
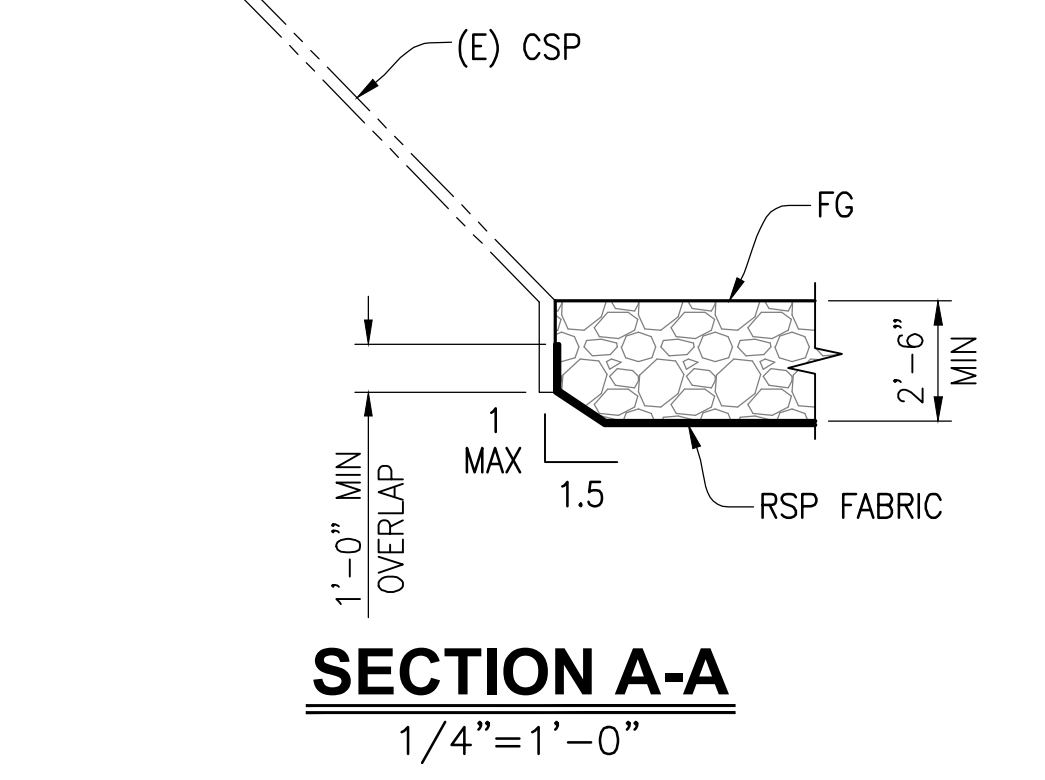
HYDROLOGIC SUMMARY:

Frequency (Years)	100
Discharge (Cubic feet per sec)	1,340
Water Surface (Elevation @ Bridge (ft))	366.67

Floodplain data are based upon information available when the plans were prepared. This information is for the purposes of scour countermeasure design only, and any interested or affected parties should make their own investigation.

BENCH MARK:
 FRESNO COUNTY BRASS CAP MONUMENT STAMPED LO 70, LOCATED ON THE SOUTHEAST CORNER OF ALTA AVENUE AND SUMNER ALIGNMENT, 48.8' SOUTHEAST OF THE SECTION CORNER, 2.0' SOUTH OF A POWER POLE, HAS AN NGVD29 ELEVATION OF 369.643' PER COUNTY OF FRESNO BENCHMARK RECORDS.

NOTE:
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

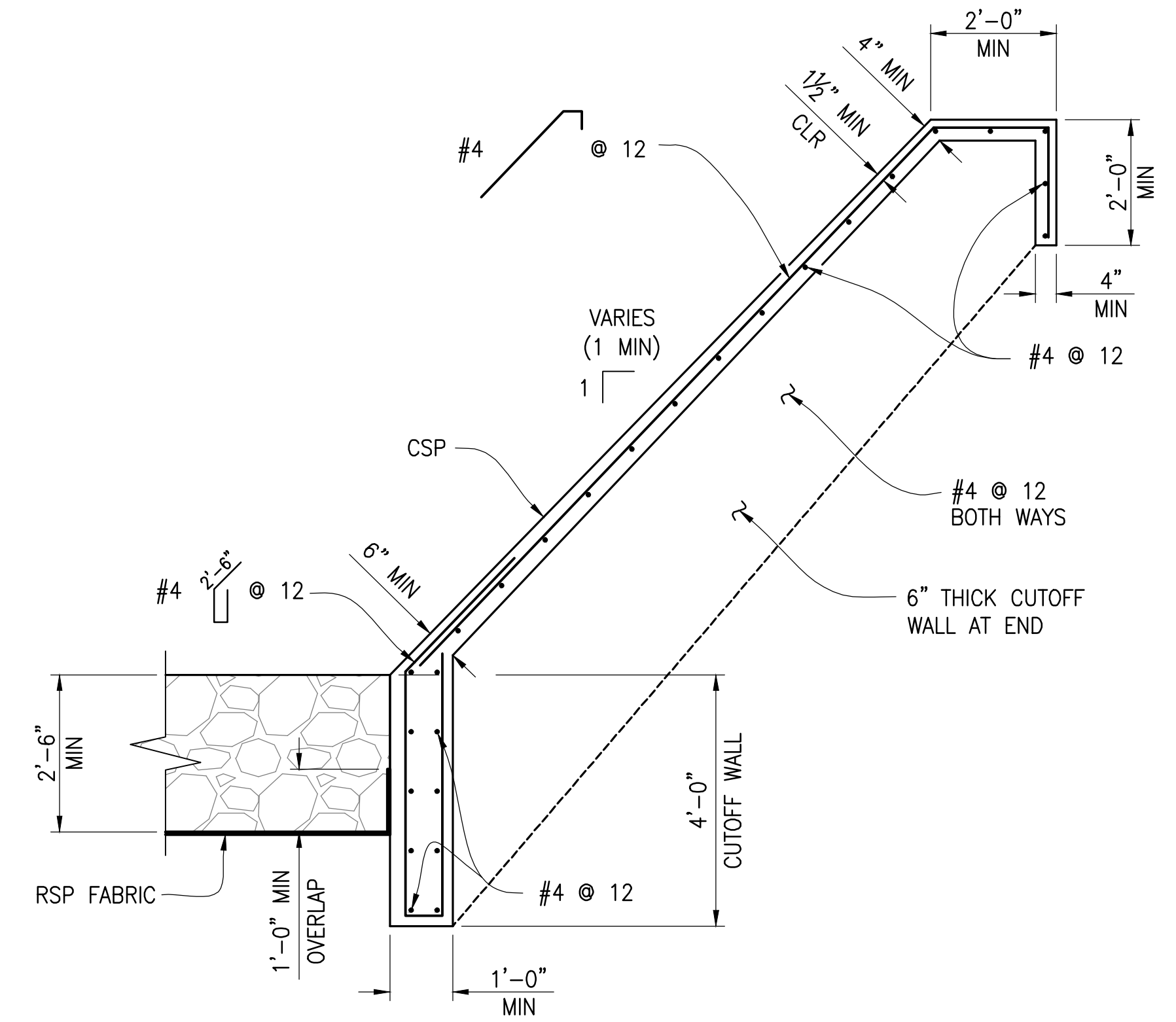


FULL RSP SECTION
 1/4"=1'-0"

SECTION A-A
 1/4"=1'-0"

SECTION C-C
 1/4"=1'-0"

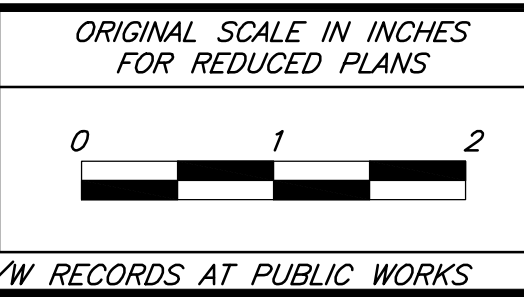
SECTION D-D
 1/4"=1'-0"



SECTION B-B
 1/2"=1'-0"

- LEGEND:**
- Indicates RSP (150 Lb, CLASS III, METHOD B)
 - Indicates Existing Structure
 - Existing 12" CMP to remain
 - Existing Verizon communication to remain
 - Existing PG&E overhead electrical to remain

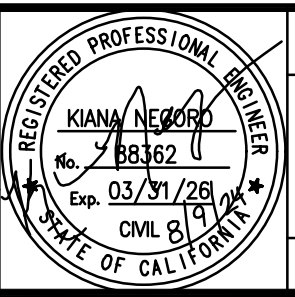
DESIGNED:	DATE
K. NEGORO	11-30-17
DRAWN:	DATE
G. IMBSEN	07-29-24
CHECKED:	DATE
M. CHRISTENSEN	09-10-24



TRC 8050 North Palm Ave., Suite 300
 Fresno, California 93711

MARK IMBRIANI
 SUPERVISING ENGINEER

09-10-24
 DATE



PROJECT
 BPMP SCOUR MITIGATION
 AT VARIOUS LOCATIONS

ROAD NO. _____ BRIDGE NO. 42C0179

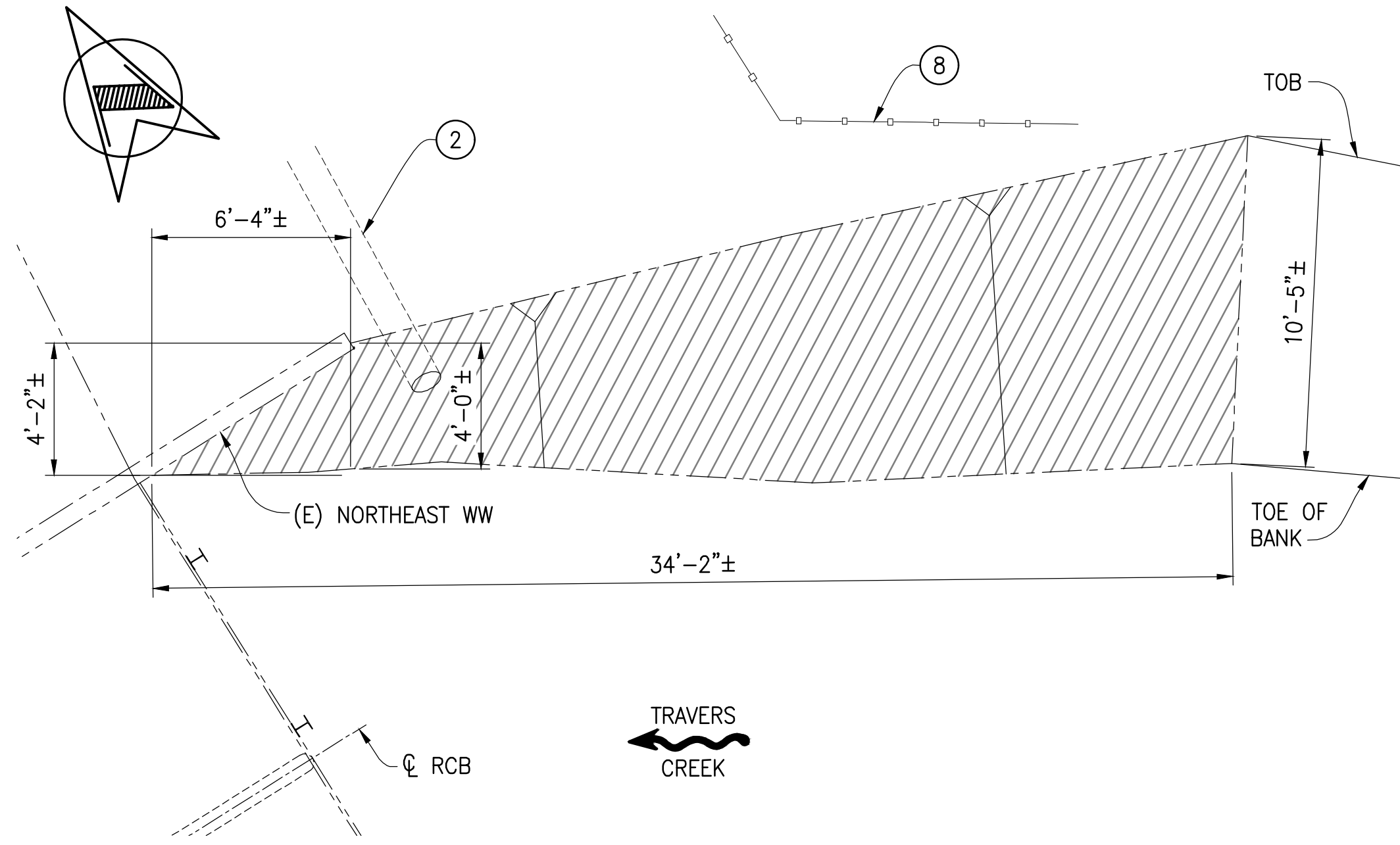


DEPARTMENT OF PUBLIC WORKS AND PLANNING
FOUNDATION PLAN
 TRAVERS CREEK CULVERT AT ALTA AVENUE

DRAWING NO. 11259 SHEET NO. 24 TOTAL 28

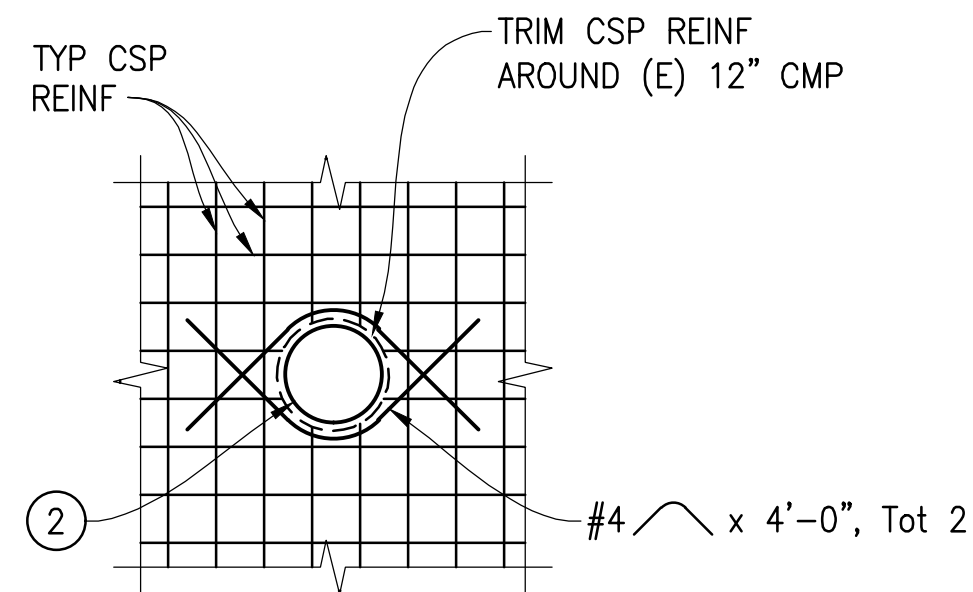
Drawing name: H:\213544_BPMP_Fresno_County\008-42C0179 - TRAVERS CREEK\42C0179_FP.dwg Layout Tab: Standards Sep 11, 2024 - 1:43pm DBatchuluun

Drawing name: H:\213544_BPMP_Fresno_County\009-42C0179 - TRAVERS CREEK\42C0179_Misc_Details.dwg
 Layout Tab: Standards Sep 11, 2024 - 4:15pm DBalchulian



LIMITS OF NORTHEAST SLOPE PAVING REMOVAL

1/4"=1'-0"



UTILITY OPENING - NORTHEAST SLOPE PAVING

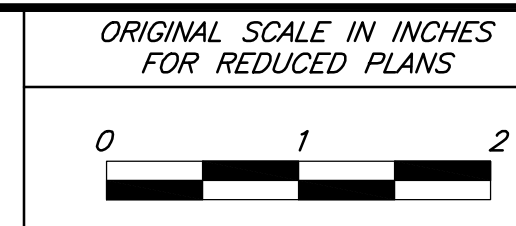
1/2"=1'-0"

LEGEND:

- Indicates Proposed Improvements
- - - Indicates Existing Structure
- ▨ Indicates Concrete Removal
- ② Existing 12" CMP to remain
- ⑧ Existing fence to remain

NOTE:
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

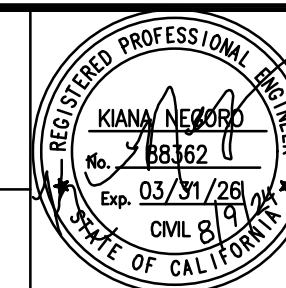
DESIGNED:	DATE
K. NEGORO	11-30-17
DRAWN:	DATE
K. NEGORO	07-29-24
CHECKED:	DATE
M. CHRISTENSEN	09-10-24



TRC 8050 North Palm Ave., Suite 300
 Fresno, California 93711

MARK IMBRIANI
 SUPERVISING ENGINEER

09-10-24
 DATE:



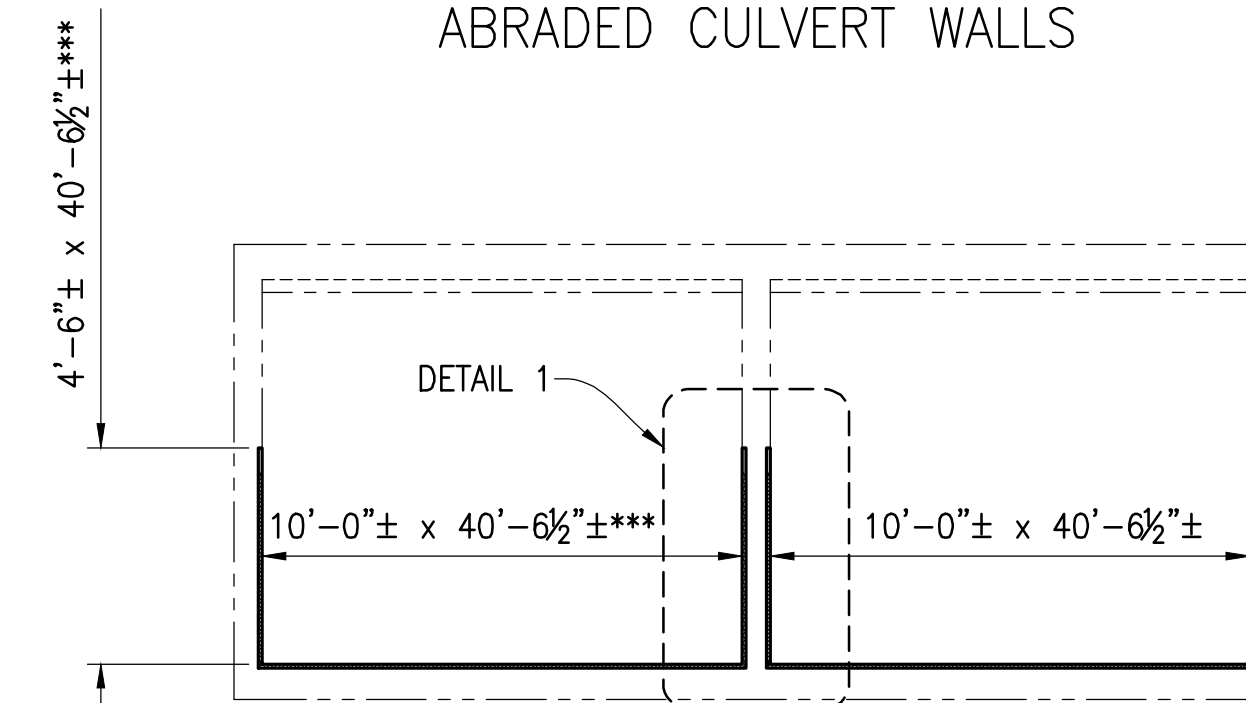
PROJECT	
BPMP SCOUR MITIGATION AT VARIOUS LOCATIONS	
ROAD NO.	BRIDGE NO. 42C0179



DEPARTMENT OF PUBLIC WORKS AND PLANNING		
MISCELLANEOUS DETAILS		
TRAVERS CREEK CULVERT AT ALTA AVENUE		
DRAWING NO. 11259	SHEET NO. 25	TOTAL 28

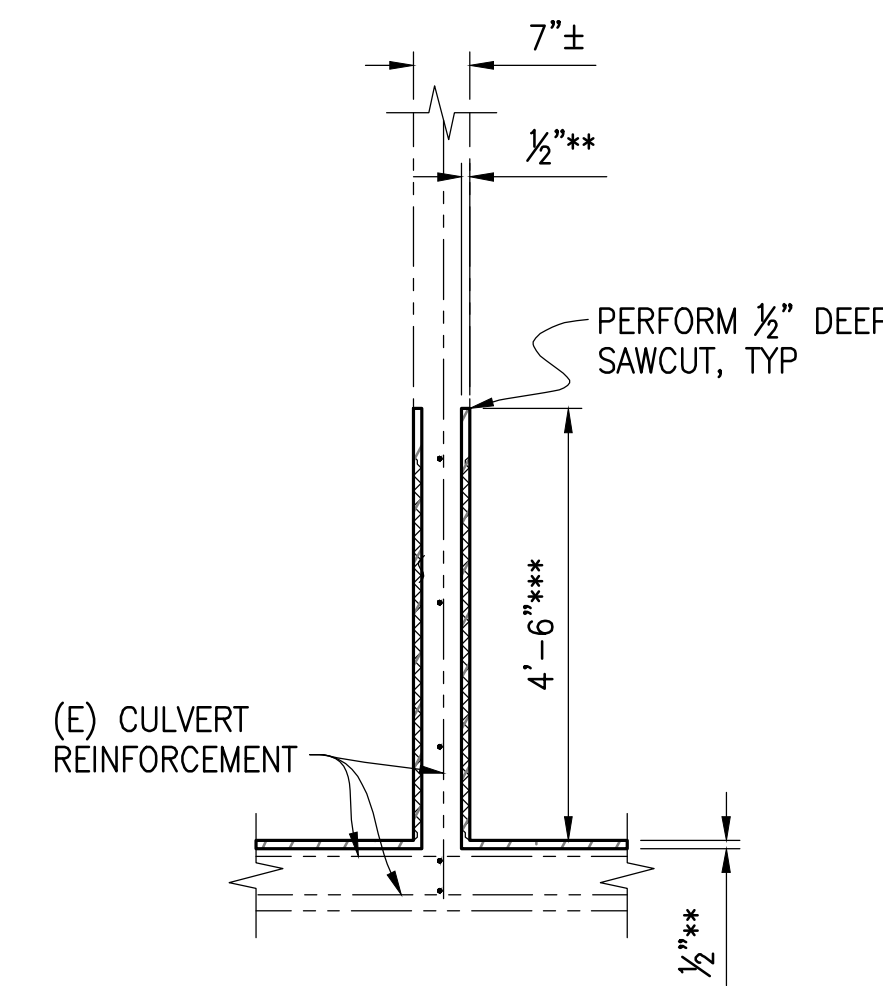


ABRADED CULVERT WALLS



LIMITS OF REMOVE UNSOUND CONCRETE AND REPAIR ABRADED SURFACE AREA

1/4"=1'-0"



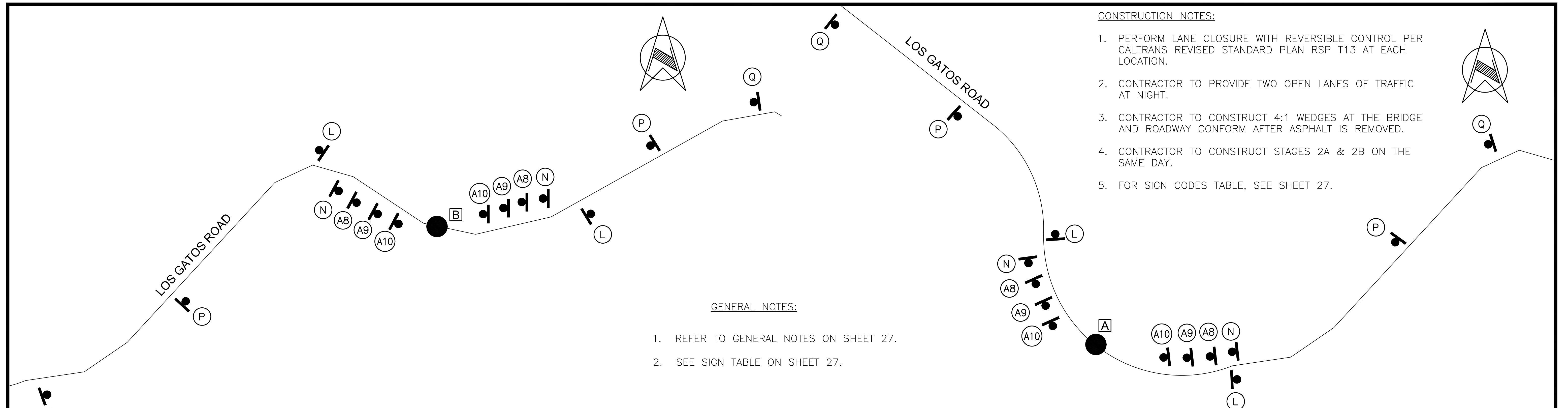
DETAIL 1

1/2"=1'-0"

** LIMITS OF REMOVE UNSOUND CONCRETE, TYP

*** LIMITS OF REMOVE UNSOUND CONCRETE AND REPAIR ABRADED SURFACE AREA, TYP

Drawing name: H:\213544_BPMF_Fresno County\Work Zone Signing\Work Zone Signing_CR-D.dwg Layout Tab: TWS 1 Sep 11, 2024 - 2:03pm @Bachulian



CONSTRUCTION NOTES:

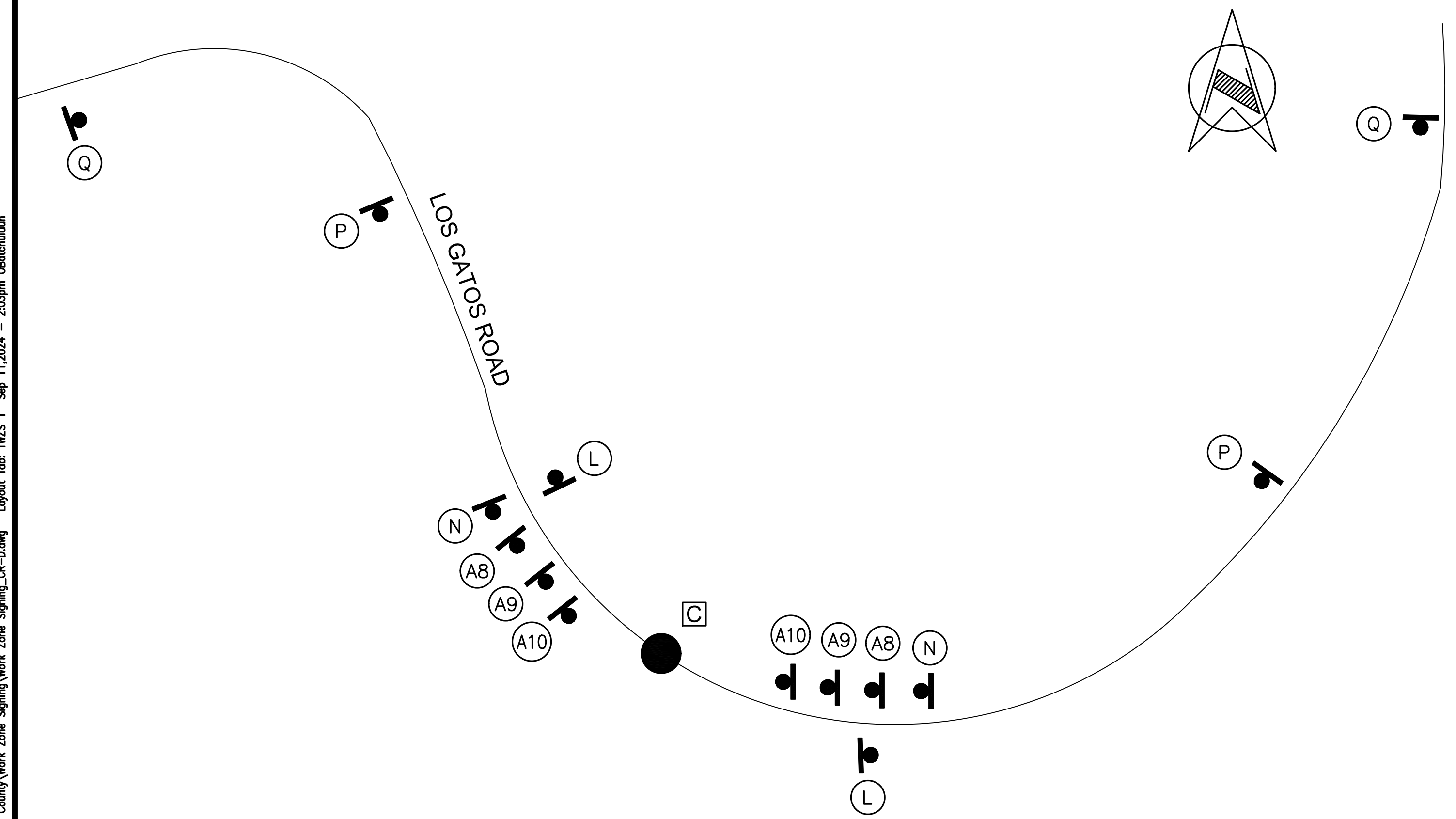
1. PERFORM LANE CLOSURE WITH REVERSIBLE CONTROL PER CALTRANS REVISED STANDARD PLAN RSP T13 AT EACH LOCATION.
2. CONTRACTOR TO PROVIDE TWO OPEN LANES OF TRAFFIC AT NIGHT.
3. CONTRACTOR TO CONSTRUCT 4:1 WEDGES AT THE BRIDGE AND ROADWAY CONFORM AFTER ASPHALT IS REMOVED.
4. CONTRACTOR TO CONSTRUCT STAGES 2A & 2B ON THE SAME DAY.
5. FOR SIGN CODES TABLE, SEE SHEET 27.

GENERAL NOTES:

1. REFER TO GENERAL NOTES ON SHEET 27.
2. SEE SIGN TABLE ON SHEET 27.

[B] LOS GATOS CREEK BRIDGE (LOCATION B)

[A] LOS GATOS CREEK BRIDGE (LOCATION A)



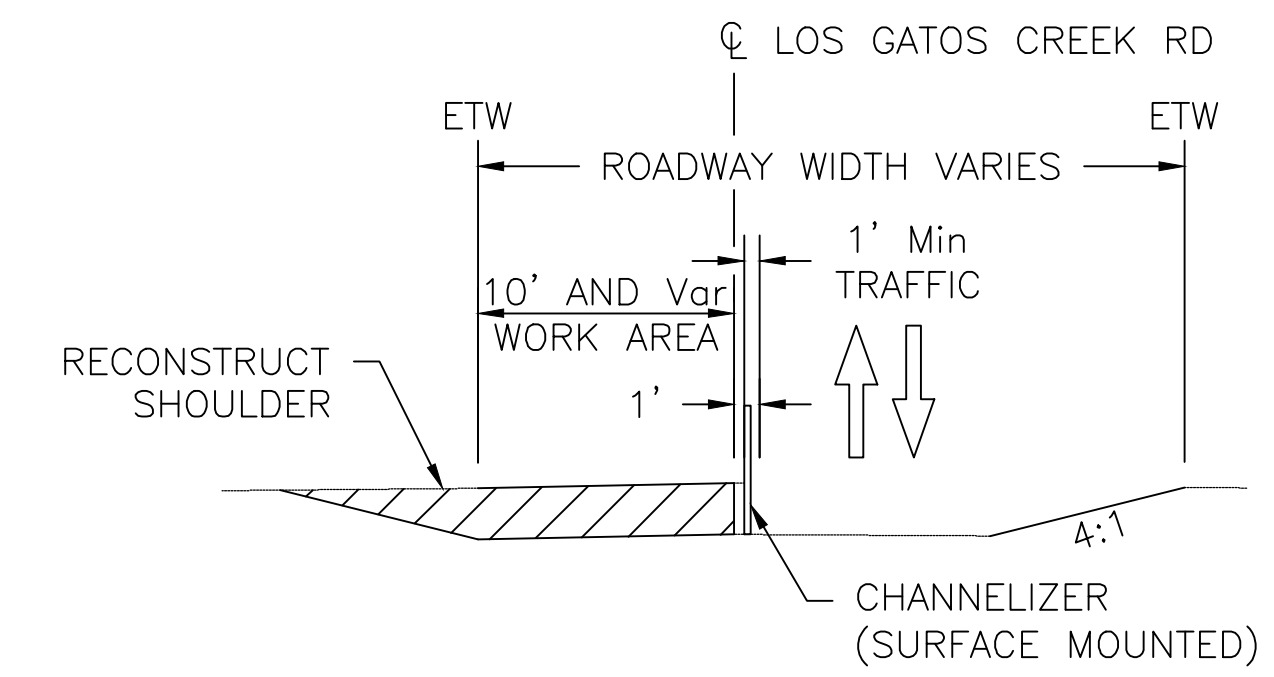
[C] LOS GATOS CREEK BRIDGE (LOCATION C)

STAGING NOTES:

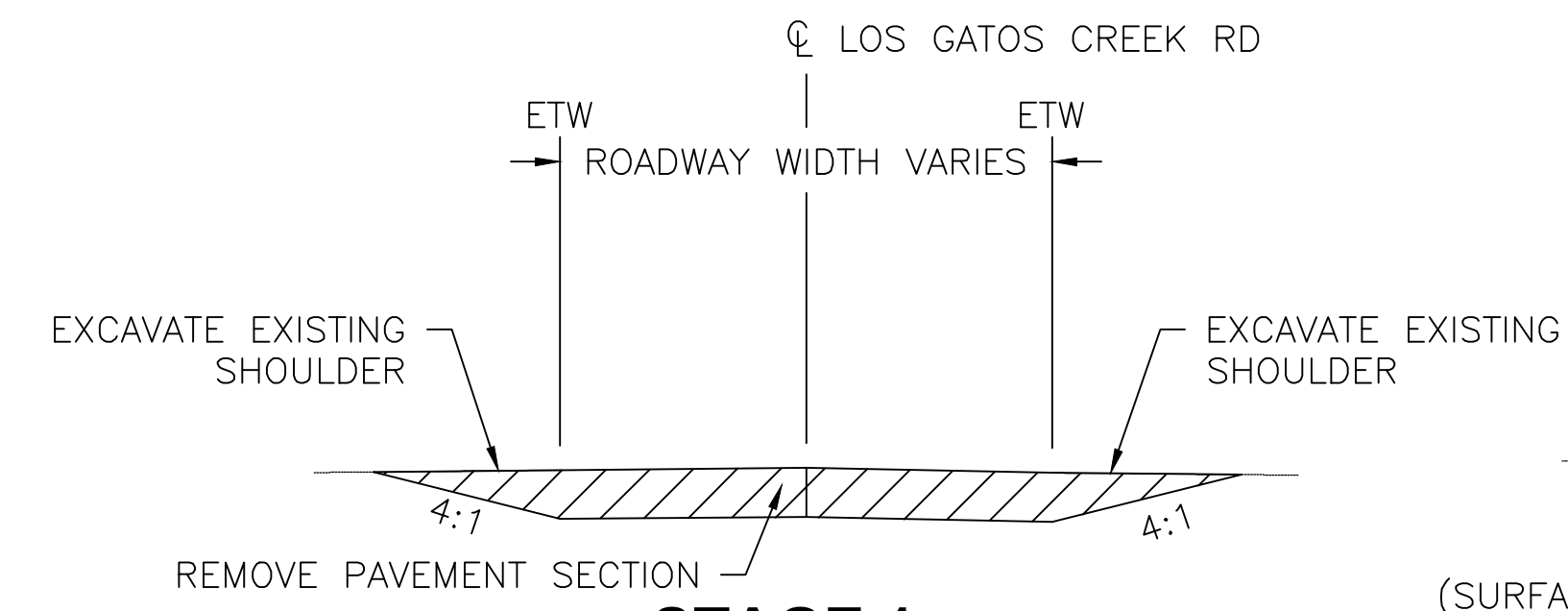
STAGE 1 – CONTRACTOR TO REMOVE EXISTING ASPHALT FOR BOTH LANES OF TRAFFIC.

STAGE 2A – PLACE PAVEMENT ON HALF OF THE ROAD WHILE PROVIDING A LANE CLOSURE WITH REVERSIBLE TRAFFIC.

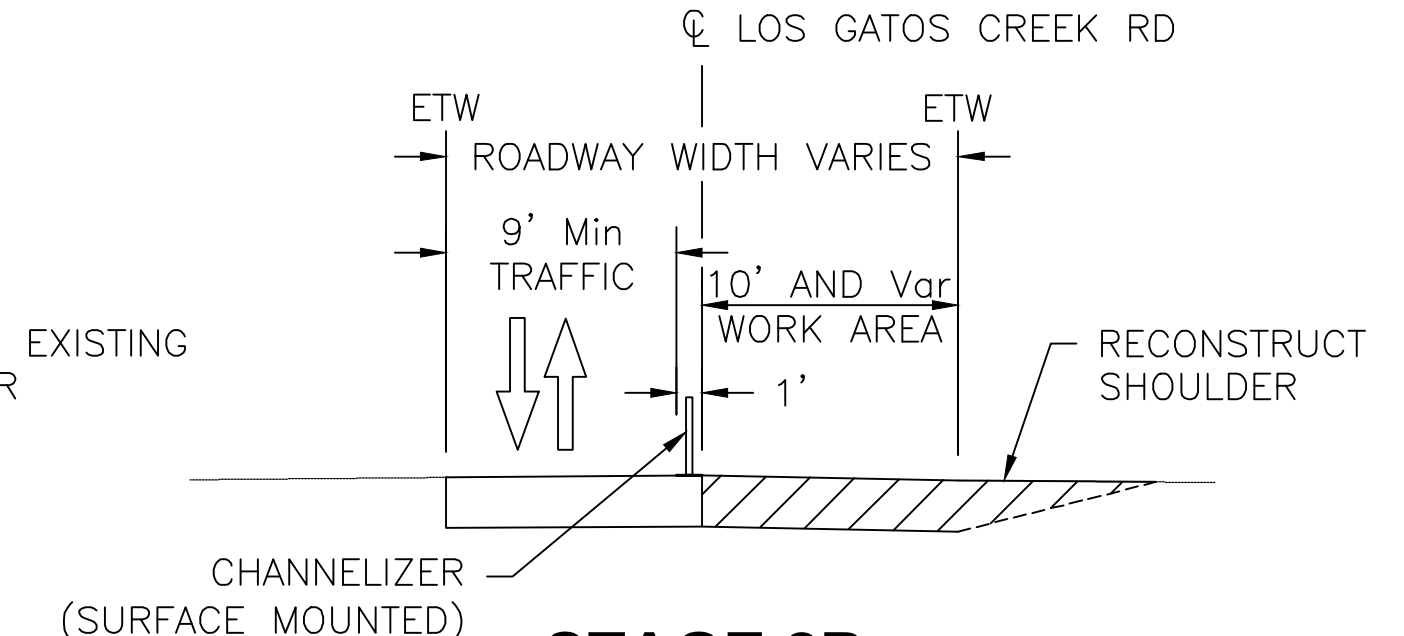
STAGE 2B – PLACE PAVEMENT ON REMAINING HALF OF THE ROAD WHILE PROVIDING A LANE CLOSURE WITH REVERSIBLE TRAFFIC.



STAGE 2A
NTS



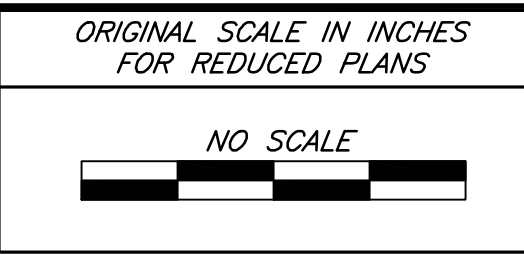
STAGE 1
NTS



STAGE 2B
NTS

DESIGNED:	DATE
A. BEDAL	06-03-24
DRAWN:	DATE
A. BEDAL	06-03-24
CHECKED:	DATE
J. CONKLIN	09-10-24

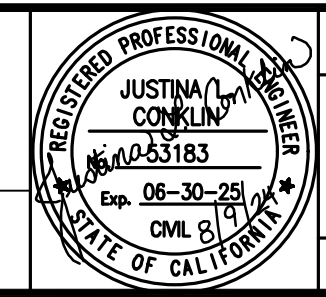
FOR R/W DATA AND ACCURATE ACCESS DETERMINATION SEE R/W RECORDS AT PUBLIC WORKS



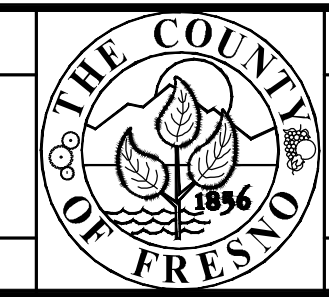
TRC 8050 North Palm Ave., Suite 300
Fresno, California 93711

MARK IMBRIANI
SUPERVISING ENGINEER

09-10-24
DATE:

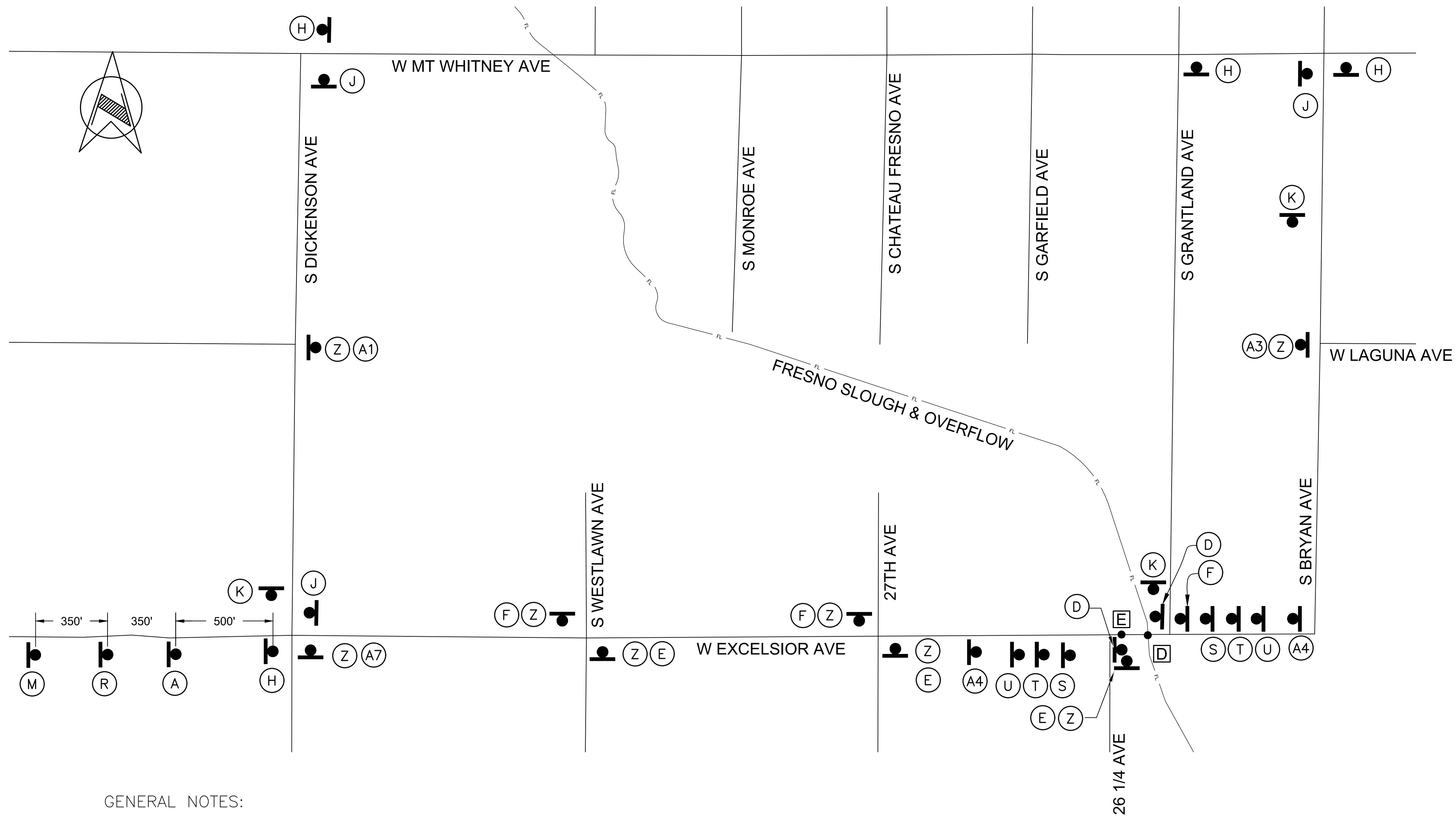


PROJECT	
BPMP SCOUR MITIGATION AT VARIOUS LOCATIONS	
ROAD NO.	BRIDGE NO.



DEPARTMENT OF PUBLIC WORKS AND PLANNING		
TEMPORARY WORK ZONE SIGNING LOS GATOS CREEK ROAD		
DRAWING NO. 11259	SHEET NO. 26	TOTAL 28

Drawing name: H:\213544_BPMP_Fresno County\Work Zone Signing\Work Zone Signing_CR-D.dwg Layout Tab: TWS 2 Sep 11, 2024 - 3:09pm @Bachulian



TEMPORARY WORK ZONE SIGNS:

SIGN	CA MUTCD CODE	PANEL SIZE (INCHES)	DESCRIPTION	POST LENGTH (FEET)
■ (A)	W20-2	36 X 36	DETOUR AHEAD	12
	W16-2aP	24 X 12	500 FT	
□ (B)	W20-2	36 X 36	DETOUR AHEAD	12
	W16-2aP	24 X 12	1000 FT	
□ (C)	W20-2	36 X 36	DETOUR AHEAD	12
	W16-2aP	24 X 12	1500 FT	
■ (D)	R11-2	48 X 30	ROAD CLOSED	TYPE III BARRICADE
■ (E)	R11-4	60 X 30	ROAD CLOSED TO THRU TRAFFIC	12
	M4-10L	48 X 18	DETOUR LEFT	
■ (F)	R11-4	60 X 30	ROAD CLOSED TO THRU TRAFFIC	12
	M4-10R	48 X 18	DETOUR RIGHT	
□ (G)	R1-1	36 X 36	STOP	12
□ (H)	M4-10L	48 X 18	DETOUR LEFT	12
■ (J)	M4-10R	48 X 18	DETOUR RIGHT	12
■ (K)	M4-8a	24 X 18	END DETOUR	12
■ (L)	G20-2	36 X 18	END ROAD WORK	12
■ (M)	W20-1	36 X 36	ROAD WORK AHEAD	12
	W16-2aP	24 X 12	500 FT	
■ (N)	W20-1	36 X 36	ROAD WORK AHEAD	12
	W16-2aP	24 X 12	1000 FT	
■ (P)	W20-1	36 X 36	ROAD WORK AHEAD	12
	W16-2aP	24 X 12	1500 FT	
■ (Q)	W20-1	36 X 36	ROAD WORK AHEAD	12
	W16-2aP	24 X 12	1500 FT	
■ (R)	W20-3	36 X 36	ROAD CLOSED AHEAD	12
	W16-2aP	24 X 12	500 FT	
■ (S)	W20-3	36 X 36	ROAD CLOSED AHEAD	12
	W16-2aP	24 X 12	1000 FT	
■ (T)	W20-3	36 X 36	ROAD CLOSED AHEAD	12
	W16-2aP	24 X 12	1500 FT	
■ (U)	W20-3	36 X 36	ROAD CLOSED AHEAD	12
	W16-2aP	24 X 12	1500 FT	
□ (V)	C9A (CA)	36 X 36	FLAGGER AHEAD	12
□ (W)	C30 (CA)	30 X 30	LANE CLOSED	12
□ (X)	W3-4	36 X 36	PREPARE TO STOP	12
■ (Y)	SC3 (CA)	48 X 18	DETOUR STRAIGHT	12
■ (Z)	G7-1 (CA)	VAR X 18	STREET NAME	
□ (A1)	R11-4	60 X 30	ROAD CLOSED TO THRU TRAFFIC	TYPE III BARRICADE
	M4-10L	48 X 18	DETOUR LEFT	TYPE III BARRICADE
□ (A2)	R11-4	60 X 30	ROAD CLOSED TO THRU TRAFFIC	TYPE III BARRICADE
	M4-10R	48 X 18	DETOUR RIGHT	TYPE III BARRICADE
■ (A3)	R11-4	60 X 30	ROAD CLOSED TO THRU TRAFFIC	12
	M4-10R	48 X 18	DETOUR RIGHT	
■ (A4)	W21-1A	36 X 36	WORKERS SYMBOL	12
□ (A5)	R1-2	36 X 36	YIELD	12
□ (A6)	R1-2aP	24 X 18	TO ONCOMING TRAFFIC	12
	R11-4	60 X 30	ROAD CLOSED TO THRU TRAFFIC	
■ (A7)	SC3 (CA)	48 X 18	DETOUR STRAIGHT	12
■ (A8)	W3-5 (15 MPH)	36 X 36	REDUCED SPEED LIMIT AHEAD	12
■ (A9)	R2-1 (15 MPH)	24 X 30	SPEED LIMIT	12
	G20-5aP	24 X 18	WORK ZONE	
■ (A10)	C46 (CA)	36 X 36	UNEVEN PAVEMENT	12

GENERAL NOTES:

- THIS PLAN DOES NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PROVIDE A TRAFFIC CONTROL SYSTEM PLAN AS REQUIRED IN THE SPECIFICATIONS.
- ADDITIONAL TEMPORARY TRAFFIC CONTROL DEVICES MAY BE REQUIRED AS PART OF THE TRAFFIC CONTROL SYSTEM PLAN AS DETERMINED BY THE ENGINEER.
- LOCATIONS OF CONSTRUCTION AREA SIGNS AND TYPE III BARRICADES ARE APPROXIMATE. EXACT LOCATIONS TO BE DETERMINED BY ENGINEER.
- SIGNS ERECTED ON THE SIDE OF THE ROAD SHALL BE MOUNTED AT A HEIGHT OF AT LEAST 7 FEET MEASURED FROM THE BOTTOM OF THE SIGN PLATE TO THE TOP ELEVATION OF THE NEAREST EDGE OF THE PAVEMENT, EXCEPT FOR SIGNS PLACED ON BARRICADES.
- SIGNS THAT WILL BE IN PLACE MORE THAN FIVE CALENDAR DAYS SHALL BE INSTALLED ON METAL OR WOOD POSTS.
- ALL EXISTING STOP SIGNS AND STOP AHEAD SIGNS ARE TO REMAIN IN PLACE DURING CONSTRUCTION.
- ALL SIGNS, EXCEPT R11-2 AND R11-4 SHALL BE BLACK LETTERS ON ORANGE BACKGROUND.
- -INDICATES APPLICABLE SIGN.
- CONTRACTOR TO PROVIDE TWO PORTABLE CHANGEABLE MESSAGE SIGNS AT EACH PROJECT LOCATION. CONTRACTOR TO COORDINATE LOCATION AND MESSAGE WITH THE ENGINEER.

[D] FRESNO SLOUGH AT EXCELSIOR BRIDGE (LOCATION D)
 [E] FRESNO SLOUGH OVERFLOW AT EXCELSIOR BRIDGE (LOCATION E)

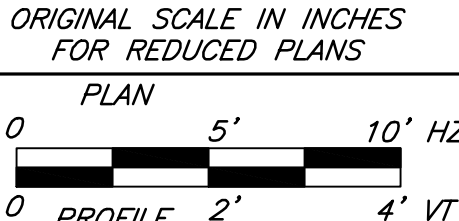
DESIGNED: A. BEDAL DRAWN: A. BEDAL CHECKED: J. CONKLIN	DATE 06-03-24 06-03-24 09-10-24	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS NO SCALE 	8050 North Palm Ave., Suite 300 Fresno, California 93711 MARK IMBRIANI SUPERVISING ENGINEER	JUSTINA A. CONKLIN CIVIL ENGINEER No. 06-30-25 Exp. 06-30-28 CIVIL ENGINEER STATE OF CALIFORNIA	PROJECT BPMP SCOUR MITIGATION AT VARIOUS LOCATIONS ROAD NO. _____ BRIDGE NO. _____	DEPARTMENT OF PUBLIC WORKS AND PLANNING TEMPORARY WORK ZONE SIGNING EXCELSIOR AVE DRAWING NO. 11259 SHEET NO. 27 TOTAL 28
--	--	---	--	--	---	--

SUMMARY OF QUANTITIES

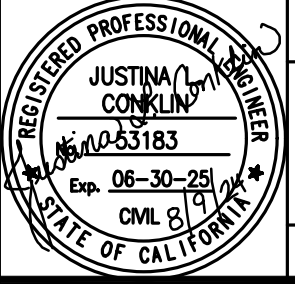
ITEM DESCRIPTION	UNIT	BRIDGE NUMBER						TOTALS
		42C0459	42C0458	42C0455	42C0104	42C0367	42C0179	
		Location A	Location B	Location C	Location D	Location E	Location F	
Construction Project Information Sign	EA	1	-	1	1	1	2	6
Traffic Control System	LS	1	1	1	-	-	-	1
Temporary High-Visibility Fence	LF	875	500	490	1040	1035	810	4750
Remove Tree	EA	-	4	-	-	-	16	20
Structure Excavation (Rock Slope Protection)	CY	329	633	391	692	425	205	2675
Hot Mix Asphalt (Type A)	TON	36	43	38	11	10	-	138
Place Hot Mix Asphalt Dike (Type F)	LF	-	-	-	39	43	-	82
Place Hot Mix Asphalt (Miscellaneous Area)	SQYD	-	-	-	7	5	-	12
Remove Asphalt Concrete Pavement (SQFT)	SQFT	1596	1915	1561	-	-	-	5072
Remove Asphalt Concrete Dike	LF	-	-	-	29	35	-	64
Cold Plane Asphalt Concrete Pavement	SQYD	-	-	-	60	60	-	120
Aggregate Base (Approach Slab)	CY	-	-	-	12	-	-	12
Structural Concrete, Approach Slab (Type R)	CY	-	-	-	25	-	-	25
Paving Notch Extension	CF	-	-	-	4	-	-	4
Inject Crack (Epoxy)	LF	-	-	-	-	60	115	175
Seal Crack (>250 mils wide)	LF	-	-	-	-	-	55	55
Repair Spalled Surface Area	SQFT	-	-	-	-	1.25	-	1.25
Repair Abraded Surface Area	SQFT	-	-	-	-	-	1541	1541
Remove Asphalt Concrete Surfacing	SQFT	1278	1082	1397	-	-	-	3757
Remove Unsound Concrete	CF	-	-	-	-	-	25	25
Prepare Concrete Bridge Deck Surface	SQFT	1499	1510	1505	3466	2469	-	10449
Furnish Polyester Concrete Overlay	CF	-	-	126	-	-	-	126
Place Polyester Concrete Overlay	SQFT	-	-	1505	-	-	-	1505
Treat Bridge Deck	SQFT	1499	1510	-	3466	2469	-	8944
Furnish Bridge Deck Treatment Material	GAL	20	20	-	40	30	-	110
Remove Chip Seal	SQFT	-	-	-	2929	2076	-	5005
Reconstruct Downdrain Flume	LS	1	-	-	-	-	-	1
Remove Slope Paving (SQYD)	SQYD	8	8	-	-	52	50	118
Concrete (Slope Protection)	CY	7	32	-	46	38	14	137
Rock Slope Protection (1/4 Ton, Class V, Method B) (CY)	CY	258	491	304	-	-	-	1053
Rock Slope Protection (150 Lb, Class III, Method B) (CY)	CY	-	-	-	691	424	205	1320
Rock Slope Protection (20 Lb, Class I, Method B) (CY)	CY	71	142	87	1	1	-	302
Rock Slope Protection Fabric (Class 8)	SQYD	256	478	297	725	464	225	2445
Fence (Type WM and BW)	LF	147	169	107	-	-	-	423
Remove Fence	LF	128	137	97	-	-	-	362
Relocate Gate	EA	-	-	2	-	-	-	2
Reset Marker	EA	-	-	-	4	-	-	4
Thermoplastic Traffic Stripe	LF	232	270	226	294	214	-	1236

Drawing name: H:\213544_BPMP_Fresno_County\Summery of Quantities.dwg Layout Tab: 01 Sep 11, 2024 - 4:31pm 06batchuluun

DESIGNED: A. BEDAL 06-07-24
 DRAWN: O. BATCHULUUN 06-10-24
 CHECKED: J. CONKLIN 09-10-24



TRC 8050 North Palm Ave., Suite 300
 Fresno, California 93711
 MARK IMBRIANI
 SUPERVISING ENGINEER: 09-10-24
 DATE:



PROJECT
**BPMP SCOUR MITIGATION
 AT VARIOUS LOCATIONS**
 ROAD NO. BRIDGE NO.



DEPARTMENT OF PUBLIC WORKS AND PLANNING
SUMMARY OF QUANTITIES
 DRAWING NO. 11259 SHEET NO. 28 TOTAL 28

REVISION

FOR R/W DATA AND ACCURATE ACCESS DETERMINATION SEE R/W RECORDS AT PUBLIC WORKS