

WARNING: ALL INDIVIDUALS INTERESTED IN BIDDING ON THIS PROJECT MUST OBTAIN THE FINAL PLANS AND SPECIFICATIONS FROM THE DEPARTMENT MANAGING THE PROJECT OR AS OTHERWISE STATED IN THE ADVERTISEMENT FOR BIDS FOR THE PROJECT. DO NOT USE THE PLANS AND SPECIFICATIONS POSTED ON THE CLERK OF THE BOARD'S WEBSITE FOR BIDDING ON THIS PROJECT.

DEPARTMENT OF
SAN BERNARDINO
COUNTY
PUBLIC WORKS

LIMITS

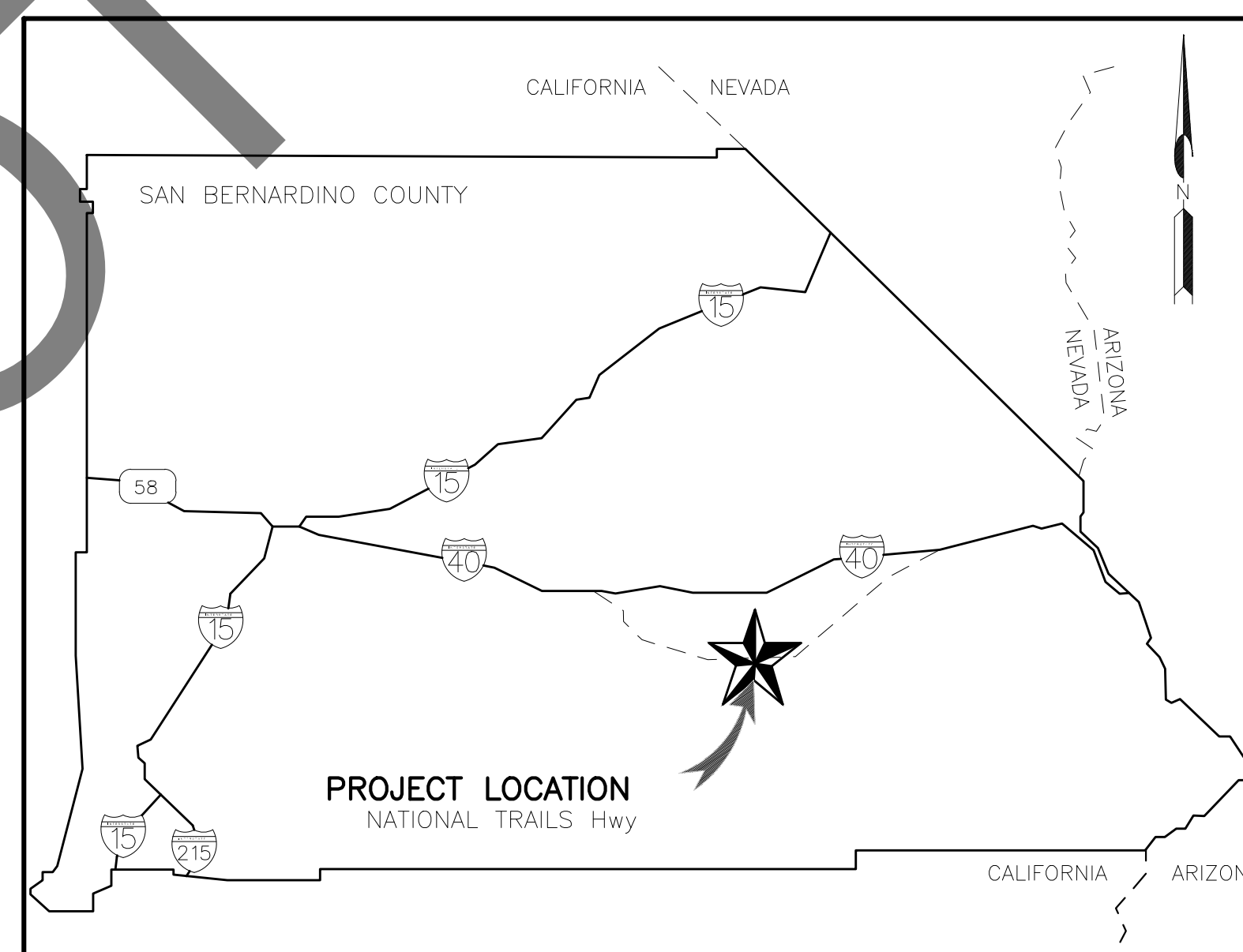
**FROM EAST OF CRUGERO ROAD TO
WEST OF MOUNTAIN SPRINGS ROAD**

WORK ORDER NO. H14910, H14912, H14917, H14918, H14915, H14914, H14911, H14913, H14916, AND H14853

ROAD NO. 586600-120, 586600-110, AND 586600-100

FED NO. BRLS-5954(142,147,149-156)

LENGTH = 3.0 MILES



LOCATION MAP
NOT TO SCALE

SAN BERNARDINO COUNTY

APPROVED BY:

or Certificate

NOEL CASTILLO, P.E., ASSISTANT DIRECTOR OF PUBLIC WORKS R.C.E. 78044

1/22/2025

ATE

APPROVED BY:



BYANKA VELASCO, P.E., ASSISTANT DIRECTOR OF PUBLIC WORKS R.C.E. 86679

1/22/2025

ATE

MARK	CHANGES		
	NO CHANGES	RESIDENT ENGINEER	DATE
FIELD CHANGES		SHT. NO. 1	TOT. SHT'S. 240

INDEX OF SHEETS:	
1	TITLE SHEET
2	INDEX SHEET
3-5	TYPICAL SECTIONS
6	PROJECT CONTROL
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30	CONSTRUCTION DETAILS
31-48	CONTOUR GRADING
49-68	PLAN AND PROFILE (SHOOFLY)
69	CONSTRUCTION AREA SIGNS
70-109	STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN
110-121	SIGNING AND STRIPING
122-134	EROSION CONTROL
135-240	STRUCTURE PLANS

TO BE SUPPLEMENTED BY THE FOLLOWING
CALTRANS STANDARD PLANS 2024.

A20A	A20B	A73C	A77L1	A77N4	A77N5
A77N6	A77Q1	77U4	A87B	D87D	T3A

TO BE SUPPLEMENTED BY THE LATEST CALIFORNIA MUTCD STD.

SECTION 6F.63	FIGURE 3F-101(CA) TYPE E
FIGURE 2A-2(CA)	FIGURE 2C-13(CA)

GENERAL NOTES

U. THE FACT THAT ANY UTILITY FACILITY IS SHOWN OR NOT SHOWN UPON THE PLANS SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY UNDER SECTION 5-1.36D "NON-HIGHWAY FACILITIES," OF THE CALTRANS STANDARD SPECIFICATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY, PURSUANT THERETO, TO ASCERTAIN THE LOCATION OF ANY UTILITY FACILITY WHICH MAY BE SUBJECT TO DAMAGE BY THE REASON OF THE CONTRACTOR'S OPERATIONS.

- ALL STATIONING NOTES ON PLAN REFER TO THE CL IMP NATIONAL TRAILS HIGHWAY OR SHOOFLY.
- DIMENSIONS ARE SUBJECT TO TOLERANCES SPECIFIED IN THE CALTRANS STANDARD SPECIFICATIONS.
- ALL PAVEMENT WIDTH DIMENSIONS SHOWN ON THE PLANS ARE TO THE EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED.
- TRANSITIONS AND WARPING SHALL BE AS SHOWN AND AS DETERMINED BY THE ENGINEER.
- ASPHALT CONCRETE OVERLAYS SHALL BE FEATHERED TO MEET EXISTING AS SHOWN ON THE PLANS OR AS DETERMINED BY THE ENGINEER.
- ALL TREES & VEGETATION OUTSIDE THE LIMITS OF EXCAVATION AND EMBANKMENT SLOPE LINES, SHALL BE PROTECTED IN PLACE.

BASIS OF BEARINGS

CCS83 ZONE 5, NAD-83 (1992.88)
COORDINATES AND DISTANCES ARE GRID
COMBINATION FACTOR = .9998439119

BENCH MARK:

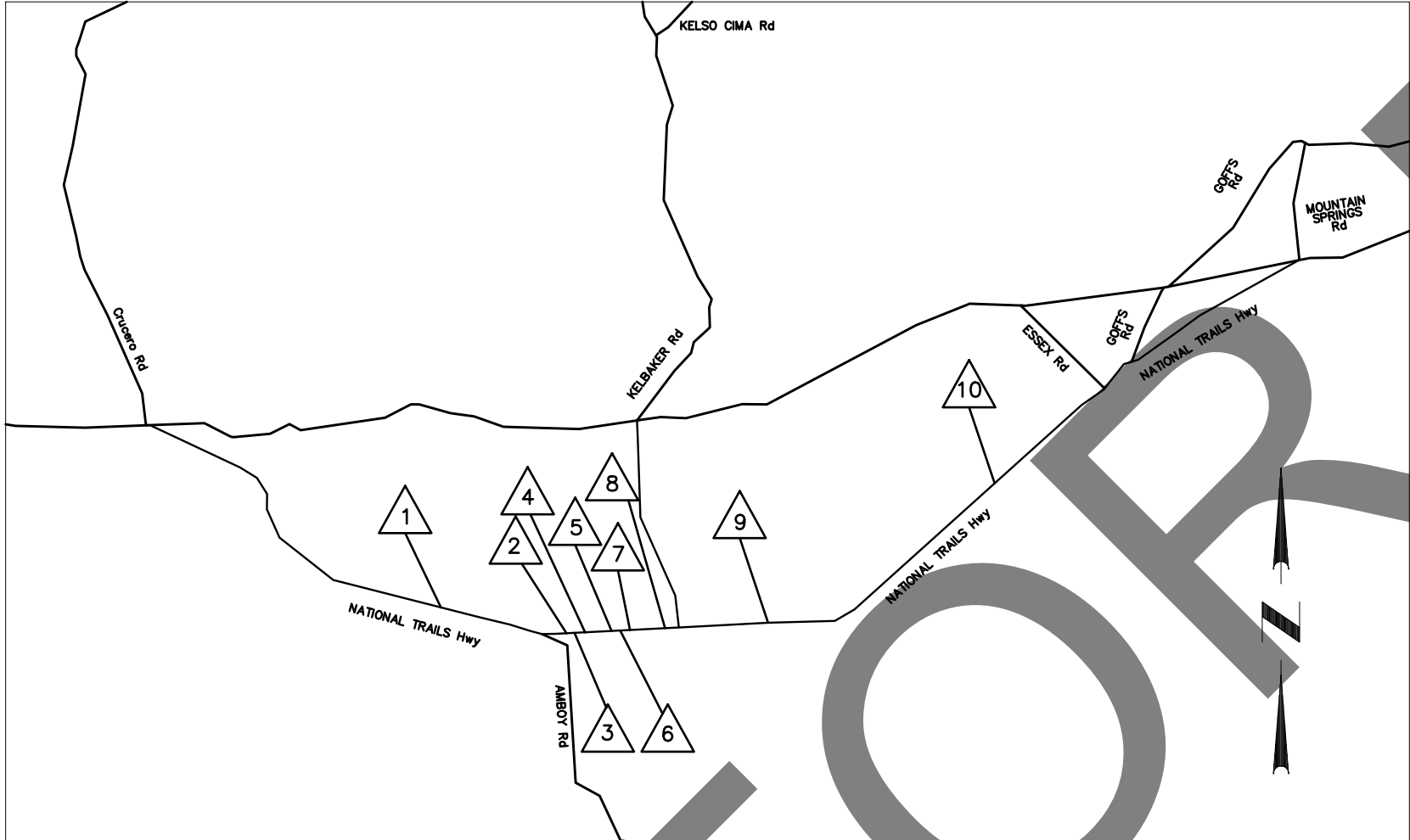
FOUND 3.5" NGS BRASS DISC IN 10"x10"
CONC MNMT STAMPED "Z1308-1978 NATIONAL
GEODETIC SURVEY" PER NGS DATASHEET
PID# EU0704. NGVD-29 ELEVATION = 1097.43'

RESIDENT ENGINEER'S NOTE TO CONTRACTOR

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES, CONDUITS, OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES SHOWN ON THESE DRAWINGS. THE CONTRACTOR FURTHER ASSUMES ALL LIABILITY AND RESPONSIBILITY FOR THE UTILITY PIPES, CONDUITS OR STRUCTURES SHOWN ON THESE DRAWINGS.

CONTRACTOR AGREES THAT HE/SHE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE SAN BERNARDINO COUNTY, THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.

ABBREVIATIONS LEGEND:	
AB	= AGGREGATE BASE
"AD"	= ADENA DITCH
AITS	= ALTERNATIVE IN-LINE TERMINAL SYSTEM
"AS"	= ADENA SHOOFLY
"B1"	= BEACON DITCH
"B2"	= BEACON SHOOFLY
BB	= BEGIN BRIDGE
BC	= BEGIN CURVE
"BD"	= BRISTOL DITCH
Beg	= BEGINNING
BP	= BEGIN PROJECT
"BS"	= BRISTOL SHOOFLY
BVC	= BEGIN VERTICAL CURVE
C	= CUT
"C1"	= CERULIA DITCH
"C2"	= CERULIA SHOOFLY
"CD"	= CERRO DITCH
CL	= CENTER LINE
CL2	= CLASS TWO
CP	= CATCH POINT
"CS"	= CERRO SHOOFLY
EB	= END BRIDGE
EC	= END CURVE
Elev	= ELEVATION
EP	= EDGE OF PAVEMENT
ES	= EDGE OF SHOULDER
ESA	= ENVIRONMENTALLY SENSITIVE AREA
ETW	= EDGE OF TRAVEL WAY
EVC	= END VERTICAL CURVE
F	= FILL



INDEX MAP
NOT TO SCALE

CONSTRUCTION NOTES

- PLACE 0.40' HOT MIXED ASPHALT TYPE A OVER 0.45' CLASS 2 AGGREGATE BASE WITH 2 LAYERS OF TACK COAT INBETWEEN. WITH 2.5' OVER-EXCAVATION AND 95% COMPACTION.
- INSTALL MIDWEST GUARDRAIL SYSTEM STANDARD RAILING SECTION, PER CALTRANS STD PLAN A77L1, PAINT WHITE PER SPECS.
- INSTALL ALTERNATIVE IN-LINE TERMINAL SYSTEM PER CALTRANS STD. PLAN A77Q1. PAINT WHITE PER SPECS.
- PLACE VEGETATION CONTROL (MINOR CONCRETE) AND BLOCK-OUT MATERIAL PER CALTRANS STD PLAN A77N5 AND A77N6.
- SEE EROSION CONTROL PLANS FOR BMP ON SLOPES PER CASQA STD.
- PLACE HOT MIXED ASPHALT DIKE (TYPE A), PER CALTRANS STD PLAN A77N4 AND A87B.
- COLD PLANE ASPHALT CONCRETE PAVEMENT 2" MIN AND OVERLAY HMA (TYPE A). SEE COLD PLANE OVERLAY (HMA) DETAIL, SHEET C-1.
- INSTALL RSP (20 LB, CLASS I, METHOD B) AT THE OVERSIDE DRAIN. SEE C-1 FOR MORE DETAILS.
- INSTALL TRANSITION RAILING (TYPE WB-31), PER CALTRANS STD PLAN A77U4.
- TO REMOVE AND RESET HISTORIC MILE MARKERS AND CONCRETE MARKERS.
- CONSTRUCT OVERSIDE DRAIN PER CALTRANS STD PLAN D87D. SEE SHEET C-1 FOR MORE DETAILS.
- PLACE 1.25' CLASS 2 AGGREGATE BASE.
- PULVERIZE SURFACE TO A MINIMUM DEPTH OF 6" OR TO THE BOTTOM OF THE IMPERMEABLE UNDERLYING BASE.
- ROADWAY EXCAVATION.
- REMOVE YELLOW PAINTED TRAFFIC STRIPE (HAZARDOUS WASTE).
- REMOVE PAINTED TRAFFIC STRIPE.
- REMOVE GUARDRAIL.
- REMOVE RAILING (K-RAIL).
- REMOVE BRIDGE.
- CONTRACTOR SHALL VERIFY DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION, CALL 811.
- PLACE FIBER ROLL.
- PROPOSED PULLBOX PROTECT IN PLACE.
- PLACE TEMPORARY RAILING (TYPE K) PER CALTRANS STD PLAN T3A.
- PLACE HYDROSEED.
- PLACE DESERT TORTOISE FENCE.

ABBREVIATIONS LEGEND:	
FG	= FINISHED GRADE
"GD"	= GORDO DITCH
"GS"	= GORDO SHOOFLY
HMA	= HOT MIX ASPHALT
HORIZ	= HORIZONTAL
HP	= HINGE POINT
"L1"	= LARISSA DITCH
"L2"	= LARISSA SHOOFLY
"LD"	= LEITH DITCH
"LS"	= LEITH SHOOFLY
MCS	= MIDWEST GUARDRAIL SYSTEM
NTS	= NOT TO SCALE
OG	= ORIGINAL GROUND
OSD	= OVERSIDE DRAIN
PG	= PROFILE GRADE
POT	= POINT OF TANGENT
PROP	= PROPOSED
RSP	= ROCK SLOPE PROTECTION
R/W	= RIGHT OF WAY
TCE	= TEMPORARY CONSTRUCTION EASEMENT
"TD"	= TERRA DITCH
"TS"	= TERRA SHOOFLY
Temp	= TEMPORARY
"SD"	= SOMBRA DITCH
Shld	= SHOULDER
SPECS	= SPECIFICATIONS
"SS"	= SOMBRA SHOOFLY
Sta	= STATION
STD	= STANDARD
Var	= VARIES

ABBREVIATIONS LEGEND:	
VC	= VERTICAL CURVE
VERT	= VERTICAL
VPI	= VERTICAL POINT OF INTERSECTION

INDEX MAP LEGEND		
1	BRISTOL DITCH	H14910
2	CERRO DITCH	H14912
3	GORDO DITCH	H14917
4	CERULIA DITCH	H14918
5	LEITH DITCH	H14915
6	TERRA DITCH	H14914
7	SOMBRA DITCH	H14911
8	BEACON DITCH	H14913
9	LARISSA DITCH	H14916
10	ADENA DITCH	H14853

TRAFFIC CONSTRUCTION NOTES

- PLACE TYPE III BARRICADE, PER CALTRANS STD PLAN A73C.
- PLACE TEMPORARY RAILING (TYPE K) PER CALTRANS STD PLAN T3A.
- PLACE TRAFFIC DRUMS PER CA MUTCD 2014, SECTION 6F.63.
- PLACE TEMPORARY FENCE (TYPE CL-6).
- PLACE PAINT TRAFFIC STRIPE, DETAIL 27B PER CALTRANS STD PLAN A20B.
- PLACE PAINT TRAFFIC STRIPE, DETAIL 21 PER CALTRANS STD PLAN A20A.
- PLACE PAINT TRAFFIC STRIPE, DETAIL 18 PER CALTRANS STD PLAN A20A.
- PLACE PAINT TRAFFIC STRIPE, DETAIL 5 PER CALTRANS STD PLAN A20A.
- EXISTING 6" WHITE EDGE LINE STRIPING.
- EXISTING 6" CENTERLINE STRIPE.
- INSTALL DELINEATOR (CLASS I) SPACING 25' PER CA MUTCD 2014, FIG 3F-101 (CA) TYPE E.
- INSTALL OBJECT MARKER FOR BRIDGE NUMBER, SEE SHEET C-1 FOR DETAILS.
- PLACE OBJECT MARKER TYPE P (OM-3R) WITH REFLECTIVE MATERIAL ON IMPACT HEAD.
- PLACE OBJECT MARKER TYPE P (OM-3L) WITH REFLECTIVE MATERIAL ON IMPACT HEAD.
- PLACE OBJECT MARKER TYPE L-1 (CA) PER CA MUTCD FIG 2C-13 (CA).
- REMOVE BRIDGE NUMBER OBJECT MARKER.
- INSTALL REFLECTORS ALONG TEMPORARY RAILING (TYPE K) PER CALTRANS SPEC 12-3.20C(1).
- RESET ROADSIDE SIGN PER CA MUTCD 2014, FIGURE 2A-2(CA).

STREET IMPROVEMENT GENERAL NOTES

- ALL IMPROVEMENTS SHALL BE COMPLETED IN ACCORDANCE WITH THIS PLAN AND COMPLY WITH LATEST SAN BERNARDINO COUNTY ROAD PLANNING AND DESIGN STANDARDS MANUAL AS WELL AS THE SAN BERNARDINO COUNTY STANDARDS AND SPECIFICATIONS, 2024 CALTRANS STANDARD PLANS AND SPECIFICATIONS, AND THE SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS GENERAL PERMIT CONDITIONS AND TRENCH SPECIFICATIONS.
- BENCH MARK DATA: FOUND 3" BRASS DISK SET IN CONCRETE LEDGE HEADWALL, STAMPED "J 41 1924 CGS" PER NGS DATASHEET, PID# EV1492. NAVD-88 ELEVATION: 3197.02
- A PERMIT WILL BE REQUIRED FROM SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS PRIOR TO ANY ENCROACHMENT OR CONSTRUCTION WITHIN SAN BERNARDINO COUNTY EASEMENT OR RIGHTS-OF-WAY.
- IF ASPHALT CONCRETE IS TO BE PLACED DIRECTLY ON SUBGRADE OF ROAD OR DRAINAGE FACILITIES A SOIL STERILANT REGISTERED BY THE E.P.A. FOR USE UNDER A.C. AND P.C.C. SHALL BE UNIFORMLY APPLIED AT THE MANUFACTURER'S RECOMMENDED RATE FOR THE FULL PAVEMENT WIDTH PRIOR TO PAVING.
- COMPACTION TESTS OF EMBANKMENT CONSTRUCTION, TRENCH BACKFILL, COMPACTING ORIGINAL GROUND, ALL SUBGRADES SHALL BE PERFORMED AT NO COSTS TO SAN BERNARDINO COUNTY. A WRITTEN REPORT WITH THESE COMPACTION TESTS SHALL BE SUBMITTED TO THE SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS, PERMITS/OPERATION SUPPORT DIVISION, TRANSPORTATION PERMIT SECTION FOR APPROVAL PRIOR TO PLACEMENT OF BASE MATERIALS AND/OR SURFACING.
- AT THE COMPLETION OF PAVING, A MATERIALS REPORT SHALL BE SUBMITTED TO THE SAN BERNARDINO COUNTY PUBLIC WORKS DEPARTMENT, PERMITS/OPERATION SUPPORT DIVISION, TRANSPORTATION PERMIT SECTION, LISTING ALL TESTS OR DETERMINATIONS COMPLETED TO VERIFY:
 - R-VALUE, SIEVE ANALYSIS AND SAND EQUIVALENT OF AGGREGATE BASES.
 - STABILITY, OIL CONTENT AND SIEVE ANALYSIS OF ASPHALT SURFACING.
- ALL LONGITUDINAL CUTS SHALL BE TESTED IN ACCORDANCE WITH THE SPECIFIED LIMITS AND AS OUTLINED IN SECTION 6 OF THE SAN BERNARDINO COUNTY STANDARDS AND SPECIFICATIONS.
- IMMEDIATELY FOLLOWING REMOVAL OF EXISTING PAVEMENT OR DIKE OR CURB AND/OR GUTTER, THE CONTRACTOR SHALL DILIGENTLY PURSUE THIS PORTION OF WORK UNTIL COMPLETION.
- DEPARTMENT OF PUBLIC WORKS APPROVAL DOES NOT INCLUDE ESTIMATE OF QUANTITIES.
- THE ENGINEER SHALL INSPECT AND CERTIFY THAT ALL ROAD AND DRAINAGE IMPROVEMENTS HAVE BEEN BUILT IN ACCORDANCE WITH THE APPROVED PLANS.
- EXISTING COUNTY ROADS THAT WILL REQUIRE RECONSTRUCTION SHALL REMAIN OPEN FOR TRAFFIC AT ALL TIMES WITH ADEQUATE DETOURS DURING ACTUAL CONSTRUCTION.
- THE ENGINEER IS RESPONSIBLE FOR ASSURING THE ACCURACY AND ACCEPTABILITY OF WORK HEREON. IN THE EVENT OF DISCREPANCIES ARISING DURING CONSTRUCTION, THE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISE THE PLAN FOR APPROVAL BY THE SAN BERNARDINO COUNTY.

CONSTRUCTION/UTILITY LEGEND

	COLD PLANE OVERLAY (HMA)
	CONSTRUCT AREA
	PULVERIZE AC SURFACING
	FIBER OPTIC
	FIBER ROLL
	ROCK SLOPE PROTECTION
	ROADWAY EXCAVATION
	DESERT TORTOISE FENCE
	CONCRETE MARKER

PREPARED BY:



MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		

FIELD CHANGES



SAN BERNARDINO COUNTY
DEPARTMENT OF PUBLIC WORKS

DESIGNED BY:	DRAWN BY:	CHECKED BY:	RECOMMENDED BY:
DH	DH	MA	Chris Nguyen, P.E. TRANSPORTATION DESIGN ENGINEERING MANAGER 1/14/2025 DATE
LEI (ROCKY) LI, P.E. SUPERVISING ENGINEER	1/15/2025 DATE		APPROVED BY: Mervat A. Mikhail, P.E. DEPUTY DIRECTOR 1/16/2025 DATE

BRIDGE REPLACEMENTS ON
NATIONAL TRAILS HIGHWAY
10 BRIDGES
INDEX SHEET

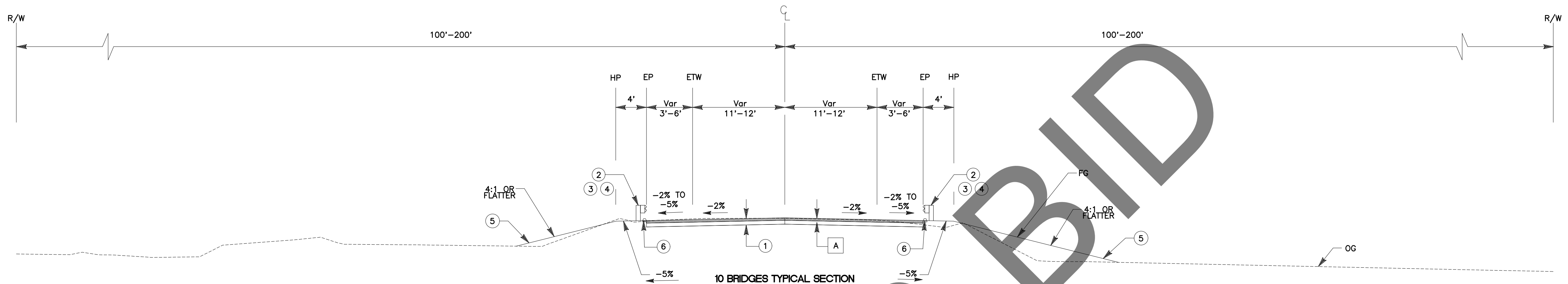
J.L. REF.	W.O. NO.	PLAN SCALE	SHT. NO.	TOT. SHT'S.
ALL	ALL	NTS	2	240

- CONSTRUCTION NOTES
- 1 PLACE 0.40" HOT MIXED ASPHALT TYPE A OVER 0.45' CLASS 2 AGGREGATE BASE WITH 2 LAYERS OF TACK COAT INBETWEEN. WITH 2.5' OVER-EXCAVATION AND 95% COMPACTION.
 - 2 INSTALL MIDWEST GUARDRAIL SYSTEM STANDARD RAILING SECTION, PER CALTRANS STD PLAN A77L1.
 - 3 INSTALL ALTERNATIVE IN-LINE TERMINAL SYSTEM PER CALTRANS STD. PLAN A77N14.
 - 4 PLACE VEGETATION CONTROL (MINOR CONCRETE) AND BLOCK-OUT MATERIAL PER CALTRANS STD PLAN A77N5.
 - 5 SEE EROSION CONTROL PLANS FOR BMP ON SLOPES PER CASQA STD.
 - 6 PLACE HOT MIX ASPHALT DIKE (TYPE A), PER CALTRANS STD PLAN A77N4 AND A87B.

"BD" LINE
"CD" LINE
"GD" LINE
"C1" LINE
"LD" LINE
"TD" LINE
"SD" LINE
"B1" LINE
"L1" LINE
"AD" LINE

NOTE

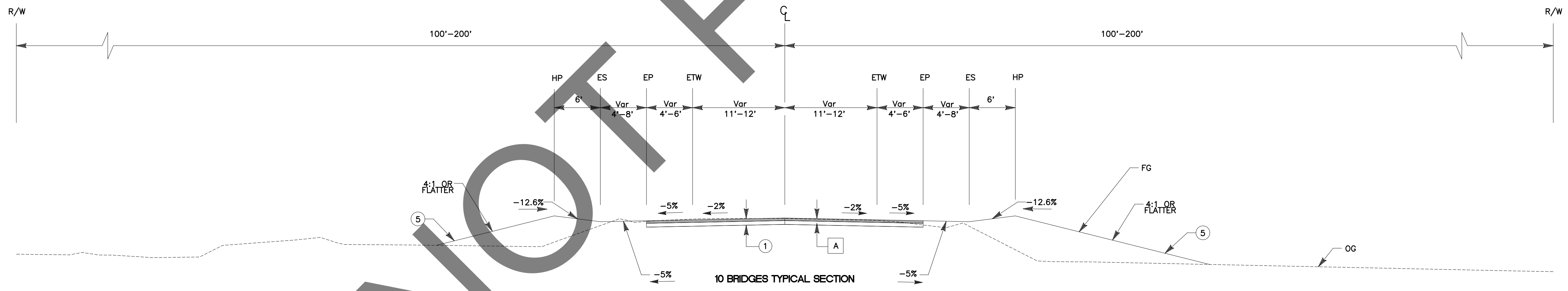
A VARIES 0.50'-0.58' EXISTING HOT MIXED ASPHALT TYPE A OVER VARIES 0.5'-1.58' EXISTING CLASS 2 AGGREGATE BASE.



10 BRIDGES TYPICAL SECTION

"BD" 1426+71.51 TO 1427+80.73 BB & 1428+45.73 EB TO 1429+57.20
"CD" 10+76.45 TO 11+78.67 BB & 12+21.67 EB TO 13+26.40
"GD" 34+71.91 TO 35+78.50 BB & 36+21.50 EB TO 37+28.57
"C1" 58+76.29 TO 59+78.51 BB & 60+21.51 EB TO 61+28.73
"LD" 104+70.28 TO 105+78.50 BB & 106+21.50 EB TO 107+29.47
"TD" 128+69.53 TO 129+78.50 BB & 130+21.50 EB TO 131+30.47
"SD" 157+45.78 TO 158+55.00 BB & 159+45.00 EB TO 160+54.22
"B1" 262+68.28 TO 263+78.50 BB & 264+21.50 EB TO 265+28.72
"L1" 344+71.53 TO 345+78.50 BB & 346+21.50 EB TO 347+26.47
"AD" 413+56.78 TO 414+69.00 BB & 415+31.00 EB TO 416+43.22

"BD" LINE
"SD" LINE
"AD" LINE



"BD" 1424+25.00 TO 1426+06.98 & 1430+17.90 TO 1434+31.41
"SD" 152+06.00 TO 156+85.33 & 161+16.52 TO 164+02.00
"AD" 412+72.75 TO 412+94.33

X-1

PREPARED BY:		SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS		BRIDGE REPLACEMENTS ON NATIONAL TRAILS HIGHWAY 10 BRIDGES TYPICAL SECTIONS	
 110 BLUE RAVINE ROAD SUITE 200, FOLSOM CA, 916-858-0642 MATTHEW ATKINSON, PROJECT ENGINEER 10/31/24 DATE				DESIGNED BY: DH DRAWN BY: DH CHECKED BY: MA RECOMMENDED BY: Chris Nguyen, P.E., Transportation Design Engineering Manager 1/14/2025 DATE	
MARK CHANGES NO CHANGES RESIDENT ENGINEER DATE		APPROVED BY: Mervat N. Mikhail, P.E., Deputy Director 1/16/2025 DATE		J.L. REF. ALL W.O. NO. ALL PLAN SCALE NTS SHT. NO. 3 TOT. SHT'S. 240	
FIELD CHANGES					

MARK	REVISIONS	DATE

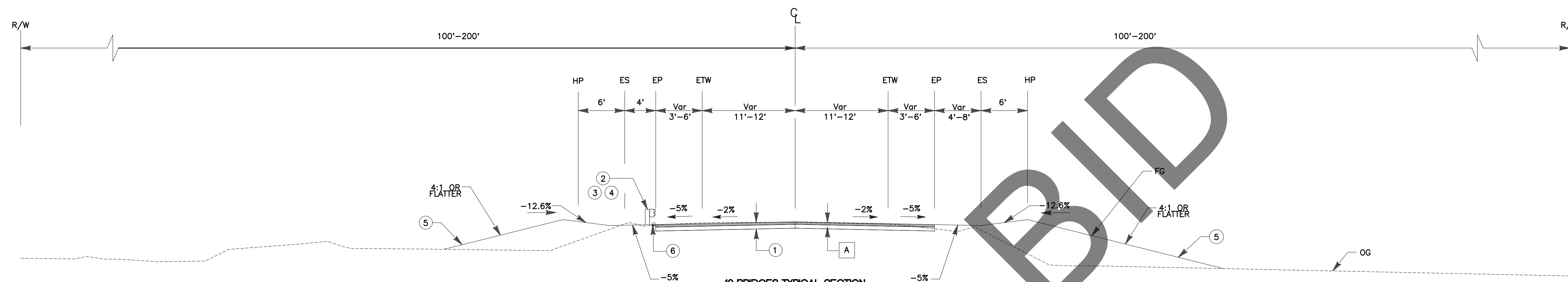
FILE NO. 586600-120, 586600-110, AND 586600-100

FILE NO. 586600-120, 586600-110, AND 586600-100

1 PLACE 0.40' HOT MIXED ASPHALT TYPE A OVER 0.45' CLASS 2 AGGREGATE BASE WITH 2 LAYERS OF
2 TACK COAT IN BETWEEN, WITH 2.5' OVER-EXCAVATION AND 95% COMPACTION.
3 INSTALL MIDWEST GUARDRAIL SYSTEM STANDARD RAILING SECTION, PER CALTRANS STD PLAN A77L1,
4 INSTALL ALTERNATIVE IN-LINE TERMINAL SYSTEM PER CALTRANS STD. PLAN A77N14.
5 PLACE VEGETATION CONTROL (MINOR CONCRETE) AND BLOCK-OUT MATERIAL PER CALTRANS STD PLAN
6 A77N5.
7 SEE EROSION CONTROL PLANS FOR BMP ON SLOPES PER CASQA STD.
8 PLACE HOT MIX ASPHALT DIKE (TYPE A), PER CALTRANS STD PLAN A77N4 AND A87B.

"BD"	LINE
"CD"	LINE
"GD"	LINE
"C1"	LINE
"LD"	LINE
"TD"	LINE
"SD"	LINE
"B1"	LINE
"L1"	LINE
"AD"	LINE

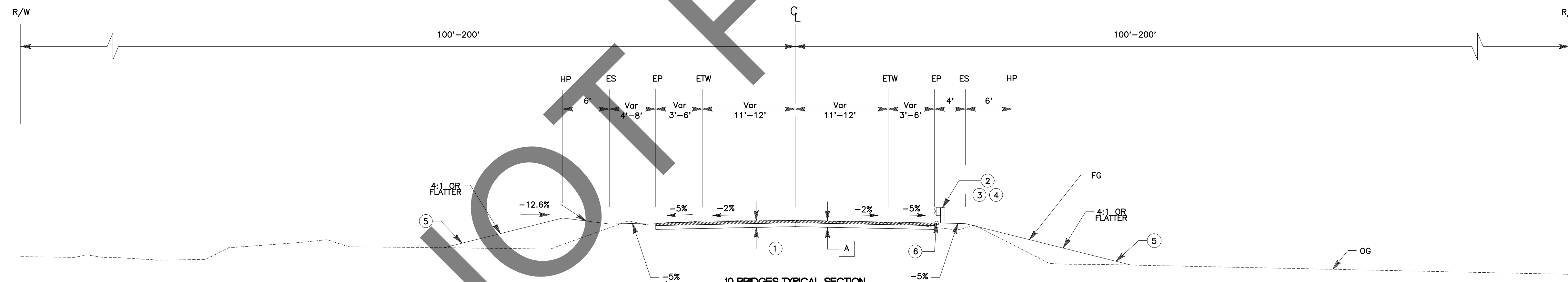
A VARIES 0.50'-0.58' EXISTING HOT MIXED ASPHALT TYPE
A OVER VARIES 0.5'-1.58' EXISTING CLASS 2
AGGREGATE BASE.



10 BRIDGES TYPICAL SECTION

"BD"	1429+57.20	TO	1430+17.90
"CD"	13+26.40	TO	13+88.84
"GD"	37+28.57	TO	37+91.04
"C1"	61+28.73	TO	61+88.93
"LD"	107+29.47	TO	107+91.92
"TD"	131+30.47	TO	131+85.88
"SD"	160+54.22	TO	161+16.52
"B1"	265+28.72	TO	265+89.17
"L1"	347+26.47	TO	347+88.67
"AD"	416+43.22	TO	417+05.67

"BD"	LINE
"CD"	LINE
"GD"	LINE
"C1"	LINE
"LD"	LINE
"TD"	LINE
"SD"	LINE
"B1"	LINE
"L1"	LINE
"AD"	LINE



10 BRIDGES TYPICAL SECTION

"BD"	1426+07.06	TO	1426+71.51
"CD"	10+12.00	TO	10+76.45
"GD"	34+13.33	TO	34+71.91
"C1"	58+13.84	TO	58+76.29
"LD"	104+07.83	TO	104+70.28
"TD"	128+07.08	TO	128+69.53
"SD"	156+85.33	TO	157+45.78
"B1"	262+08.83	TO	262+68.28
"L1"	344+10.58	TO	344+71.53
"AD"	412+94.33	TO	413+56.78

PREPARED BY:



110 BLUE RAVINE ROAD SUITE 200, FOLSOM, CA, 916-858-0642

MATTHEW ATKINSON, PROJECT ENGINEER

10/31/24
DATE

FIELD CHANGES



SAN BERNARDINO COUNTY
DEPARTMENT OF PUBLIC WORKS

DESIGNED BY: DH	DRAWN BY: DH	CHECKED BY: MA	RECOMMENDED BY:  CHRIS NGUYEN, P.E. TRANSPORTATION DESIGN ENGINEERING MANAGER	1/14/2025 DATE
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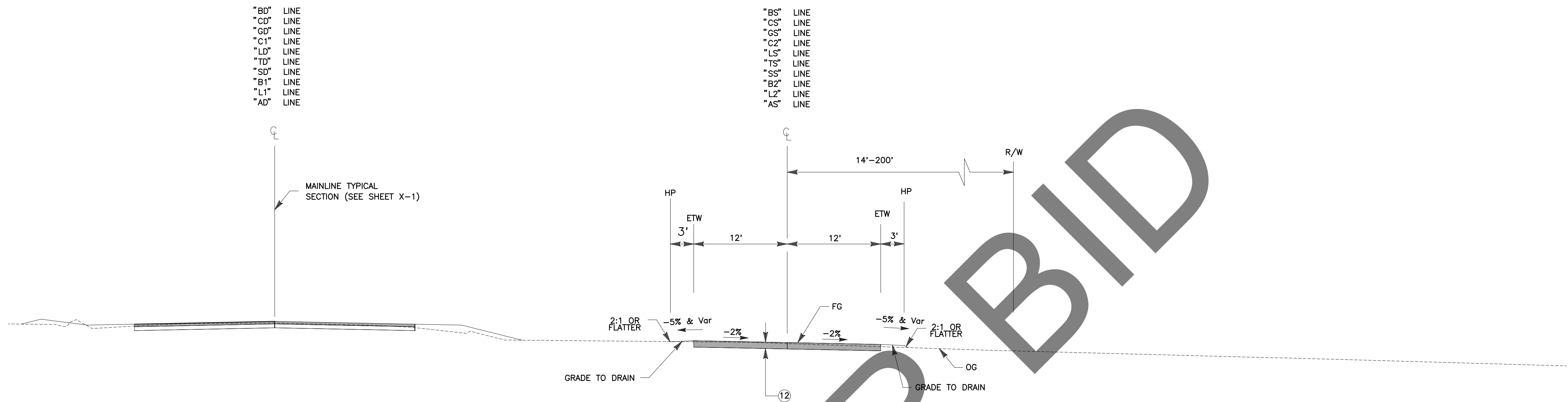
APPROVED BY: Mervat N. Mikhail, P.E. 1/16/2017
DEPUTY DIRECTOR DATE

BRIDGE REPLACEMENTS ON NATIONAL TRAILS HIGHWAY 10 BRIDGES TYPICAL SECTIONS

J.L. REF.	W.O. NO.	PLAN SCALE	SHT. NO.	TOT. SHT'S.
ALL	ALL	NTS	4	240

X-2

- CONSTRUCTION NOTES
- 12 PLACE 1.25' CLASS 2 AGGREGATE BASE.
- 27 PLACE 0.5' NATIVE SOIL WITH 95% COMPACTION.



SHOOFLY TYPICAL SECTION

- "BS" 3+90.69 TO 19+36.06
"CS" 15+89.78 TO 27+25.14
"GS" 2+84.59 TO 14+19.30
"C2" 16+59.58 TO 27+63.20
"LS" 5+00.00 TO 17+45.92
"TS" 15+51.91 TO 26+64.90
"SS" 12+94.15 TO 31+76.77
"B2" 3+78.76 TO 12+19.83
"L2" 16+03.91 TO 27+15.87
"AS" 2+55.38 TO 12+10.00

X-3

PREPARED BY:

DOKKEN ENGINEERING

110 BLUE RAVINE ROAD SUITE 200, FOLSOM, CA 916-858-0642

Matthew Atkinson

MATTHEW ATKINSON, PROJECT ENGINEER

10/31/24
DATE

MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		
FIELD CHANGES			



SAN BERNARDINO COUNTY
DEPARTMENT OF PUBLIC WORKS

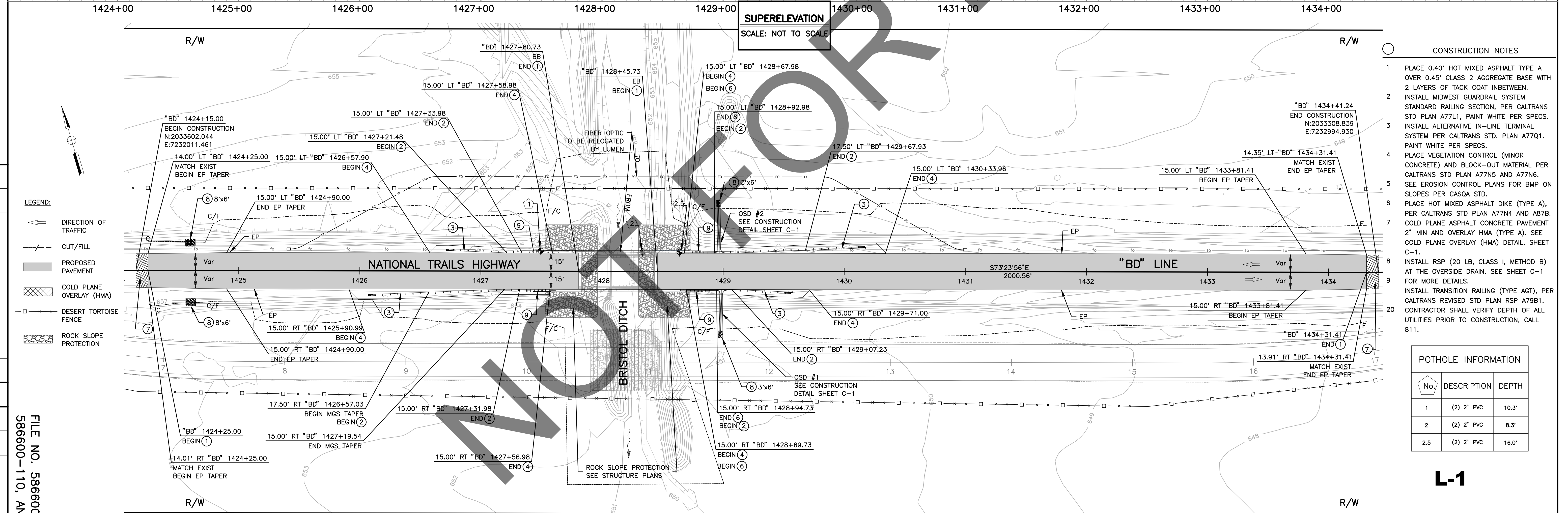
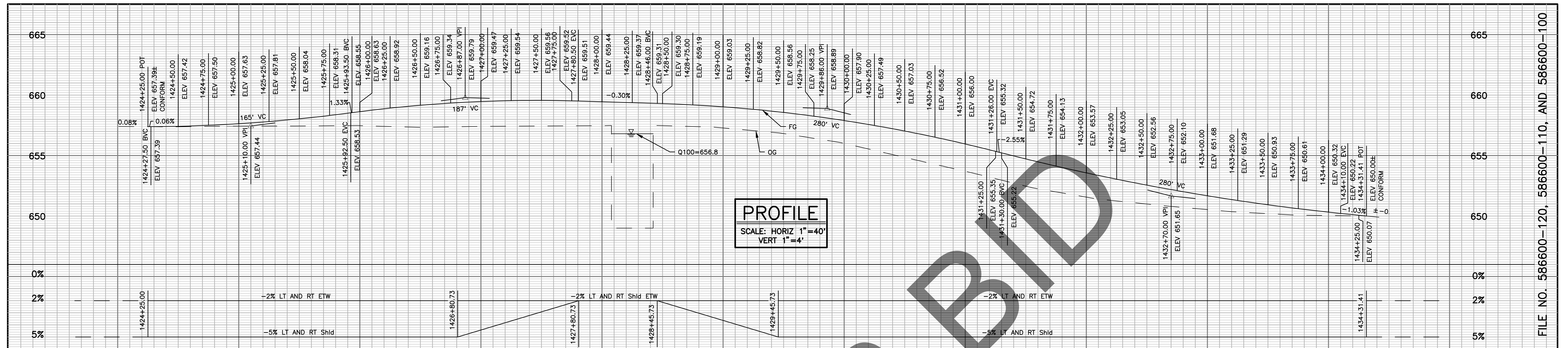
DESIGNED BY: DH	DRAWN BY: DH	CHECKED BY: MA	RECOMMENDED BY: <i>Chris Nguyen</i> CHRIS NGUYEN, P.E. TRANSPORTATION DESIGN ENGINEERING MANAGER 1/14/2025 DATE
APPROVED BY: <i>Lei (Rocky) Li</i> LEI (ROCKY) LI, P.E. SUPERVISING ENGINEER 1/15/2025 DATE			APPROVED BY: <i>Mervat N. Mikhail</i> MERVAT N. MIKHAIL, P.E. DEPUTY DIRECTOR 1/16/2025 DATE

BRIDGE REPLACEMENTS ON NATIONAL TRAILS HIGHWAY 10 BRIDGES TYPICAL SECTIONS				
J.L. REF. ALL	W.O. NO. ALL	PLAN SCALE NTS	SHT. NO. 5	TOT. SHT'S. 240

MARK	REVISIONS	APPR.	DATE

FILE NO. 586600-120, 586600-110, AND 586600-100

FILE NO. 586600-120, 586600-110, AND 586600-100



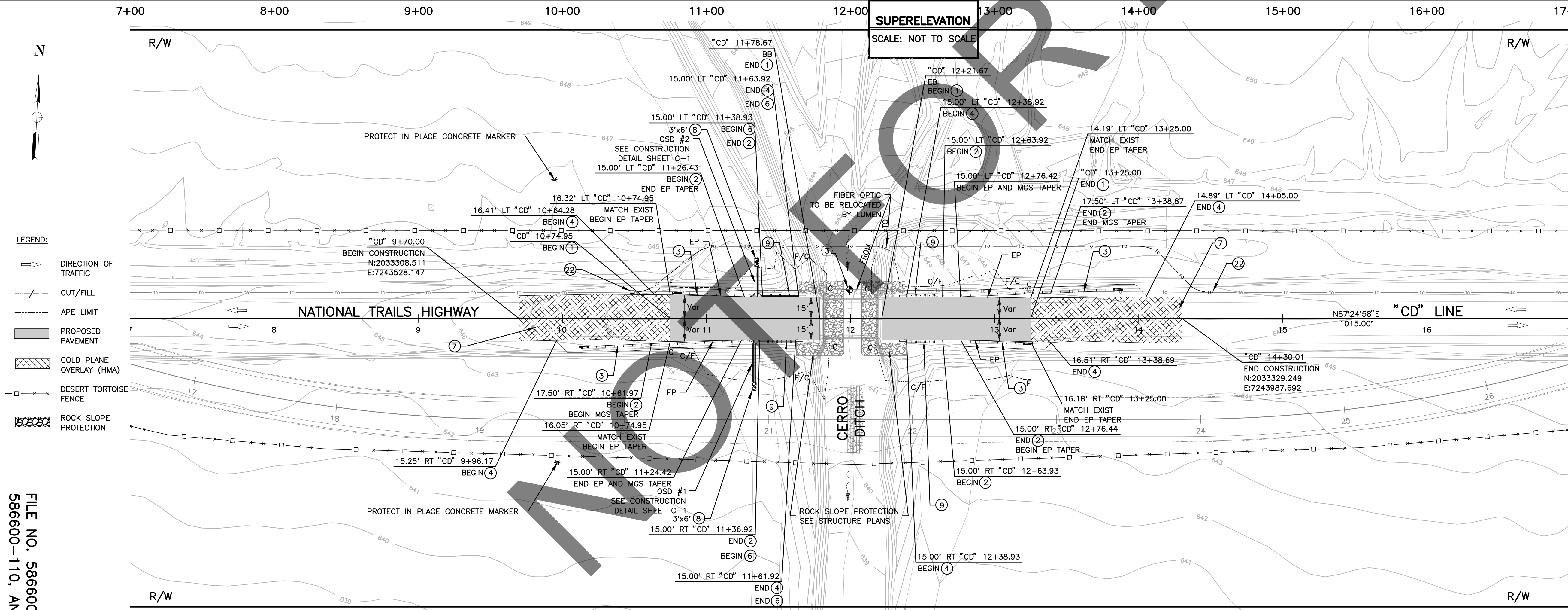
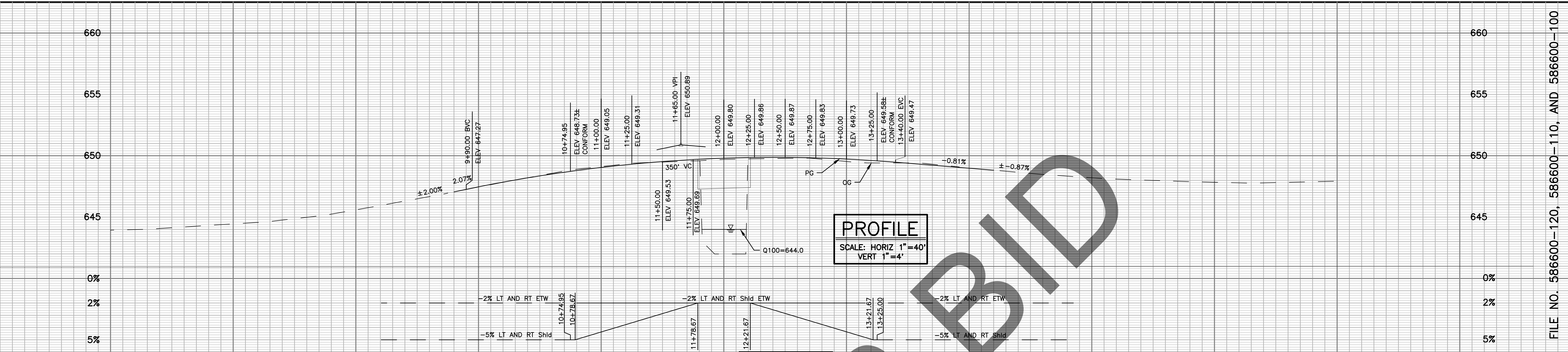
- ## CONSTRUCTION NOTES
- 1 PLACE 0.40' HOT MIXED ASPHALT TYPE A OVER 0.45" CLASS 2 AGGREGATE BASE WITH 2 LAYERS OF TACK COAT INBETWEEN.
 - 2 INSTALL MIDWEST GUARDRAIL SYSTEM STANDARD RAILING SECTION, PER CALTRANS STD PLAN A77L1, PAINT WHITE PER SPECS.
 - 3 INSTALL ALTERNATIVE IN-LINE TERMINAL SYSTEM PER CALTRANS STD. PLAN A77Q1. PAINT WHITE PER SPECS.
 - 4 PLACE VEGETATION CONTROL (MINOR CONCRETE) AND BLOCK-OUT MATERIAL PER CALTRANS STD PLAN A77N5 AND A77N6.
 - 5 SEE EROSION CONTROL PLANS FOR BMP ON SLOPES PER CASQA STD.
 - 6 PLACE HOT MIXED ASPHALT DIKE (TYPE A), PER CALTRANS STD PLAN A77N4 AND A87B.
 - 7 COLD PLANE ASPHALT CONCRETE PAVEMENT 2" MIN AND OVERLAY HMA (TYPE A). SEE COLD PLANE OVERLAY (HMA) DETAIL, SHEET C-1.
 - 8 INSTALL RSP (20 LB, CLASS I, METHOD B) AT THE OVSIDE DRAIN. SEE SHEET C-1 FOR MORE DETAILS.
 - 9 INSTALL TRANSITION RAILING (TYPE AGT), PER CALTRANS REVISED STD PLAN RSP A79B1.
 - 20 CONTRACTOR SHALL VERIFY DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION, CALL 811.

POTHOLE INFORMATION		
 No.	DESCRIPTION	DEPTH
1	(2) 2" PVC	10.3'
2	(2) 2" PVC	8.3'
2.5	(2) 2" PVC	16.0'

L-1

FILE NO. 586600-120,
586600-110, AND 586600-100

FILE NO. 586600-120, 586600-110, AND 586600-100

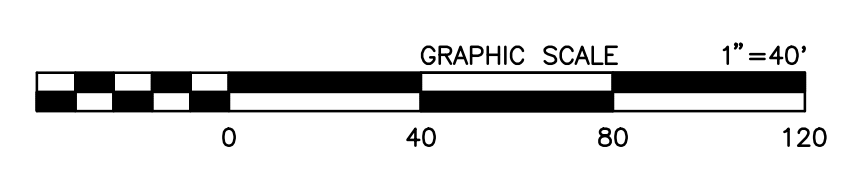


- CONSTRUCTION NOTES
- 1 PLACE 0.40' HOT MIXED ASPHALT TYPE A OVER 0.45' CLASS 2 AGGREGATE BASE WITH 2 LAYERS OF TACK COAT INBETWEEN.
 - 2 INSTALL MIDWEST GUARDRAIL SYSTEM STANDARD RAILING SECTION, PER CALTRANS STD PLAN A77L1, PAINT WHITE PER SPECS.
 - 3 INSTALL ALTERNATIVE IN-LINE TERMINAL SYSTEM PER CALTRANS STD. PLAN A77Q1. PAINT WHITE PER SPECS.
 - 4 PLACE VEGETATION CONTROL (MINOR CONCRETE) AND BLOCK-OUT MATERIAL PER CALTRANS STD PLAN A77N5 AND A77N6.
 - 5 SEE EROSION CONTROL PLANS FOR BMP ON SLOPES PER CASQA STD.
 - 6 PLACE HOT MIXED ASPHALT DIKE (TYPE A), PER CALTRANS STD PLAN A77N4 AND A87B.
 - 7 COLD PLANE ASPHALT CONCRETE PAVEMENT 2" MIN AND OVERLAY HMA (TYPE A). SEE COLD PLANE OVERLAY (HMA) DETAIL, SHEET C-1.
 - 8 INSTALL RSP (20 LB, CLASS I, METHOD B) AT THE OVERSIDE DRAIN. SEE SHEET C-1 FOR MORE DETAILS.
 - 9 INSTALL TRANSITION RAILING (TYPE AGT), PER CALTRANS REVISED STD PLAN RSP A79B1.
 - 20 CONTRACTOR SHALL VERIFY DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION, CALL 811.
 - 22 PROPOSED PULLBOX PROTECT IN PLACE.

POTHOLE INFORMATION		
No.	DESCRIPTION	DEPTH
3	(2) 2" PVC	7.4'

L-2

FILE NO. 586600-120,
586600-110, AND 586600-100



PREPARED BY:

DOKKEN ENGINEERING

110 BLUE RAINE ROAD SUITE 200, FOLSOM, CA 95688-0642

12/18/24 DATE

MATTHEW ATKINSON, PROJECT ENGINEER

MARK

CHANGES	RESIDENT ENGINEER	DATE
NO CHANGES		

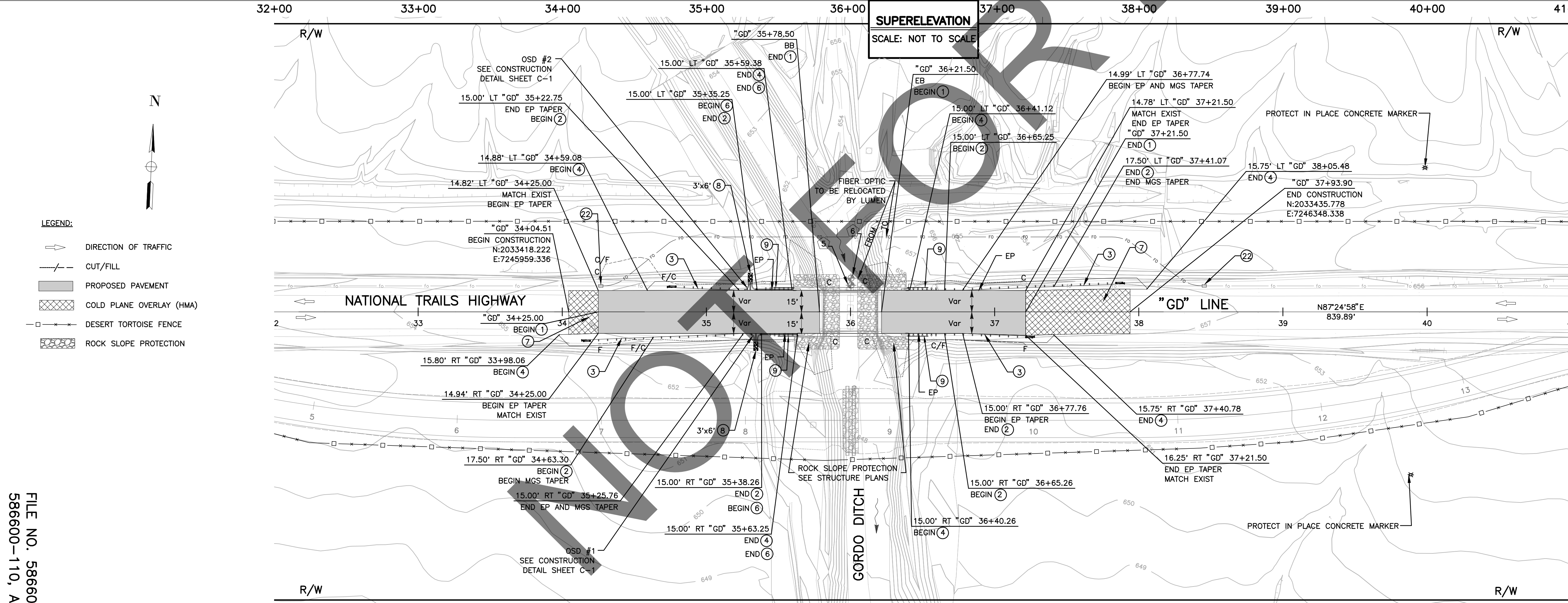
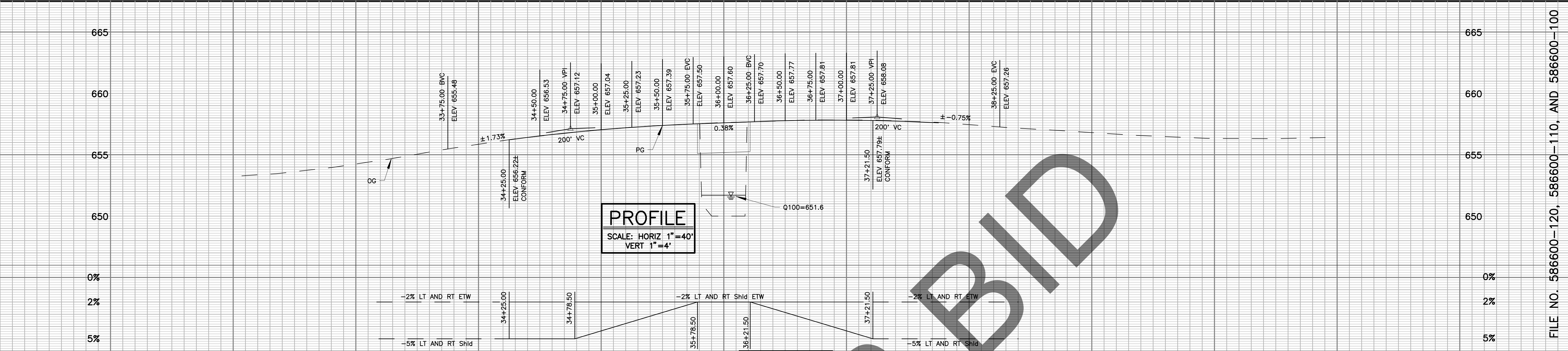
FIELD CHANGES

SAN BERNARDINO COUNTY
DEPARTMENT OF PUBLIC WORKS

DESIGNED BY:	DH	DRAWN BY:	DH	CHECKED BY:	MA	RECOMMENDED BY:	Chris Nguyen, P.E. TRANSPORTATION DESIGN ENGINEERING MANAGER	1/14/2025
APPROVED BY:	LEI (ROCKY) LI, P.E. SUPERVISING ENGINEER	1/15/2025	DATE	APPROVED BY:	Mervat K. Mikhail, P.E. DEPUTY DIRECTOR	1/16/2025	DATE	

BRIDGE REPLACEMENT ON
NATIONAL TRAILS HIGHWAY
AT 10 BRIDGES
PLAN AND PROFILE
CERRO DITCH

J.L. REF.	W.O. NO.	PLAN SCALE	SHT. NO.	TOT. SHT'S.
J.L. 11800	H14912	1"=40'	8	240

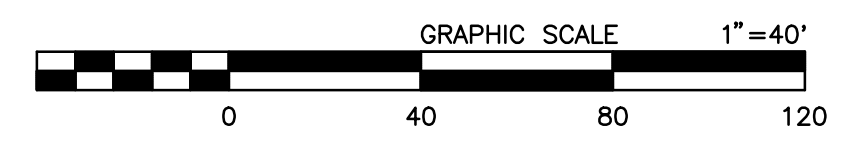


- CONSTRUCTION NOTES
- 1 PLACE 0.40' HOT MIXED ASPHALT TYPE A OVER 0.45' CLASS 2 AGGREGATE BASE WITH 2 LAYERS OF TACK COAT INBETWEEN.
 - 2 INSTALL MIDWEST GUARDRAIL SYSTEM STANDARD RAILING SECTION, PER CALTRANS STD PLAN A77L1, PAINT WHITE PER SPECS.
 - 3 INSTALL ALTERNATIVE IN-LINE TERMINAL SYSTEM PER CALTRANS STD. PLAN A77Q1. PAINT WHITE PER SPECS.
 - 4 PLACE VEGETATION CONTROL (MINOR CONCRETE) AND BLOCK-OUT MATERIAL PER CALTRANS STD PLAN A77N5 AND A77N6.
 - 5 SEE EROSION CONTROL PLANS FOR BMP ON SLOPES PER CASQA STD.
 - 6 PLACE HOT MIXED ASPHALT DIKE (TYPE A), PER CALTRANS STD PLAN A77N4 AND A87B.
 - 7 COLD PLANE ASPHALT CONCRETE PAVEMENT 2" MIN AND OVERLAY HMA (TYPE A). SEE COLD PLANE OVERLAY (HMA) DETAIL, SHEET C-1.
 - 8 INSTALL RSP (20 LB, CLASS I, METHOD B) AT THE OVERSIDE DRAIN. SEE SHEET C-1 FOR MORE DETAILS.
 - 9 INSTALL TRANSITION RAILING (TYPE AGT), PER CALTRANS REVISED STD PLAN RSP A79B1.
 - 20 CONTRACTOR SHALL VERIFY DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION, CALL 811.
 - 22 PROPOSED PULLBOX PROTECT IN PLACE.

POTHOLE INFORMATION		
No.	DESCRIPTION	DEPTH
5	N/A	N/A
6	(2) 2" PVC	4.6"

L-3

FILE NO. 586600-120,
586600-110, AND 586600-100



PREPARED BY:

DOKKEN ENGINEERING

110 BLUE RAINE ROAD SUITE 200, FOLSOM, CA 916-858-0642

MATTHEW ATKINSON, PROJECT ENGINEER

12/18/24 DATE

MARK

CHANGES

NO CHANGES

RESIDENT ENGINEER

DATE

FIELD CHANGES

SAN BERNARDINO COUNTY
DEPARTMENT OF PUBLIC WORKS

DESIGNED BY: DH

DRAWN BY: DH

CHECKED BY: MA

RECOMMENDED BY: CHRIS NGUYEN, P.E., TRANSPORTATION DESIGN ENGINEERING MANAGER

1/15/2025 DATE

APPROVED BY: MERVAT K. MIKHAIL, P.E., DEPUTY DIRECTOR

1/16/2025 DATE

BRIDGE REPLACEMENT ON
NATIONAL TRAILS HIGHWAY
AT 10 BRIDGES
PLAN AND PROFILE
GORDO DITCH

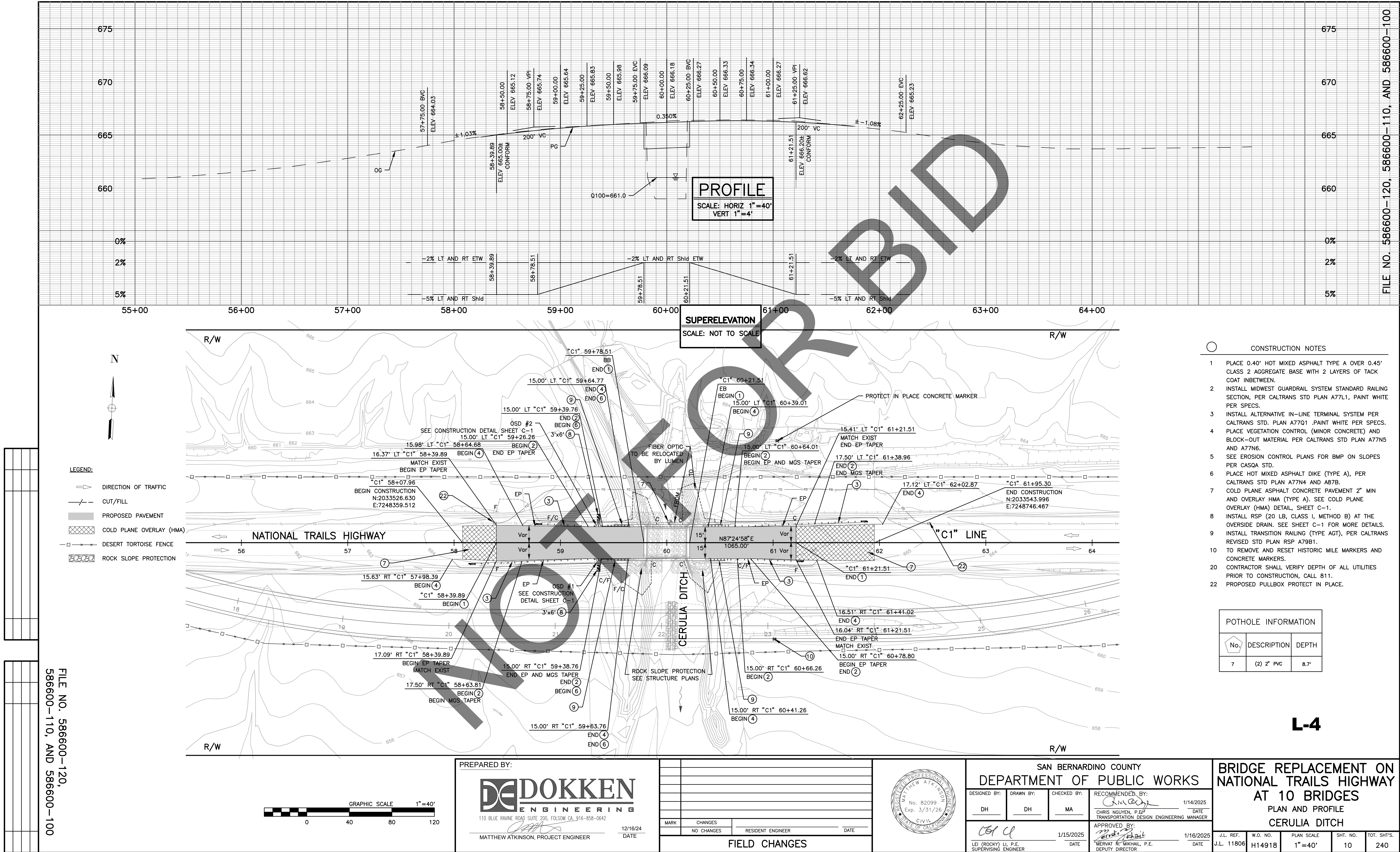
J.L. REF. J.L. 11805

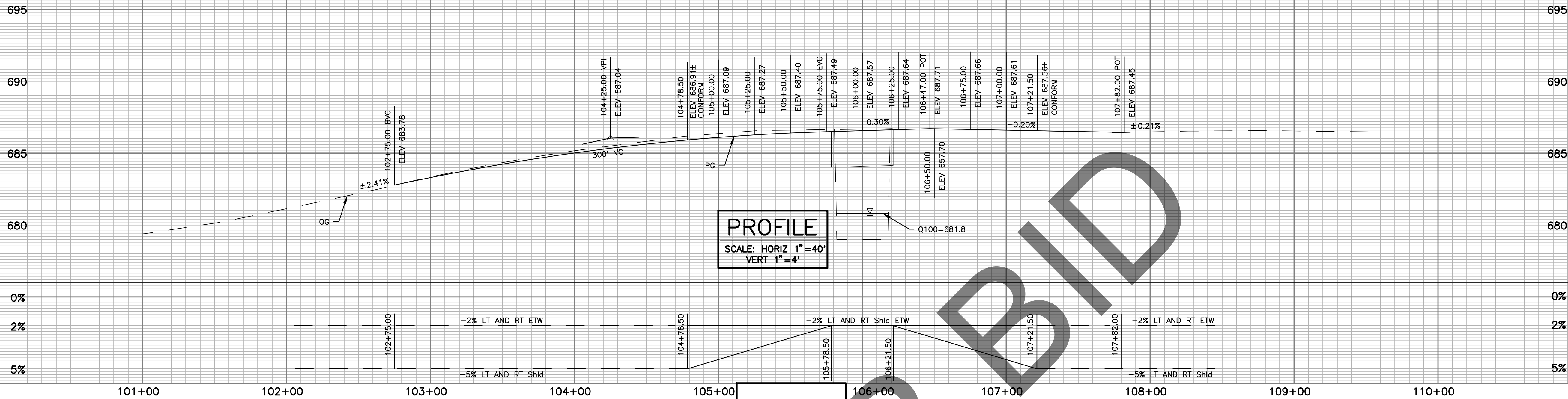
W.O. NO. H14917

PLAN SCALE 1"=40'

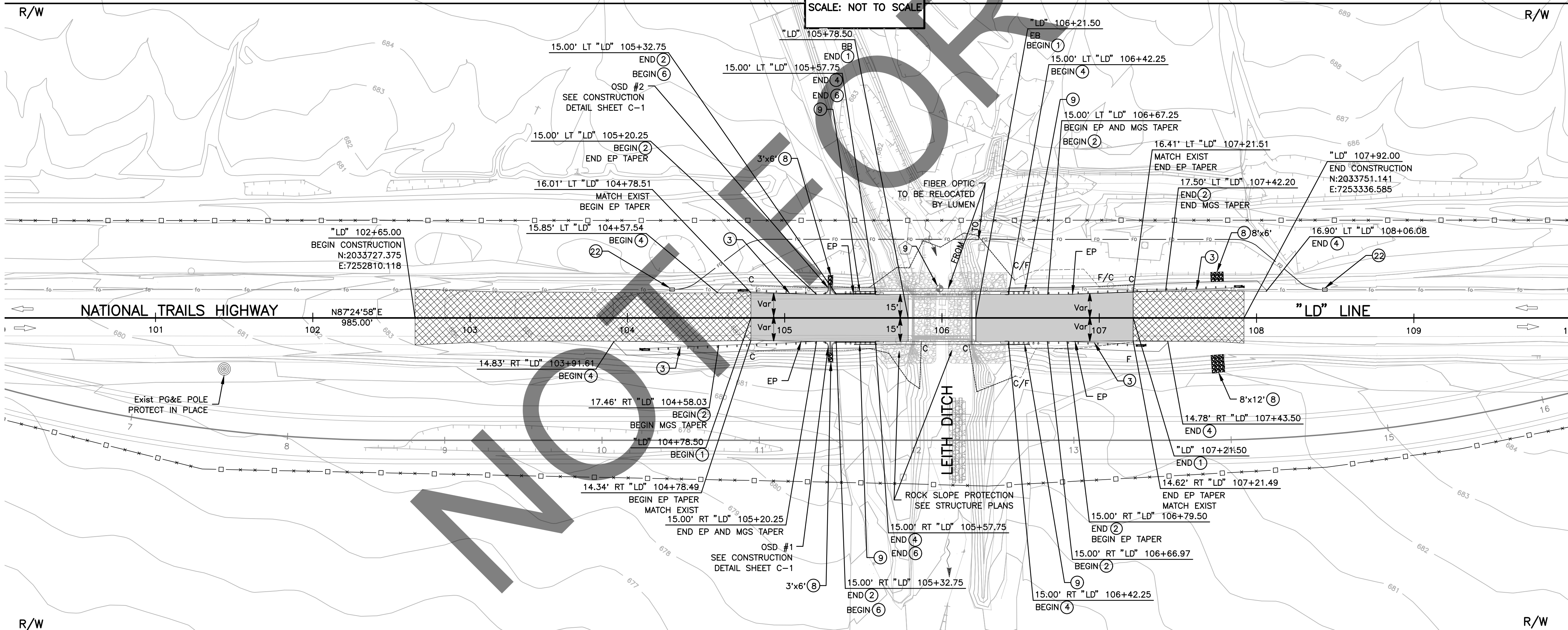
SHT. NO. 9

TOT. SHT'S. 240





SUPERELEVATION
SCALE: NOT TO SCALE



CONSTRUCTION NOTES

- 1 PLACE 0.40' HOT MIXED ASPHALT TYPE A OVER 0.45' CLASS 2 AGGREGATE BASE WITH 2 LAYERS OF TACK COAT INBETWEEN.
- 2 INSTALL MIDWEST GUARDRAIL SYSTEM STANDARD RAILING SECTION, PER CALTRANS STD PLAN A77L1, PAINT WHITE PER SPECS.
- 3 INSTALL ALTERNATIVE IN-LINE TERMINAL SYSTEM PER CALTRANS STD. PLAN A77Q1. PAINT WHITE PER SPECS.
- 4 PLACE VEGETATION CONTROL (MINOR CONCRETE) AND BLOCK-OUT MATERIAL PER CALTRANS STD PLAN A77N5 AND A77N6.
- 5 SEE EROSION CONTROL PLANS FOR BMP ON SLOPES PER CASQA STD.
- 6 PLACE HOT MIXED ASPHALT DIKE (TYPE A), PER CALTRANS STD PLAN A77N4 AND A87B.
- 7 COLD PLANE ASPHALT CONCRETE PAVEMENT 2" MIN AND OVERLAY HMA (TYPE A). SEE COLD PLANE OVERLAY (HMA) DETAIL, SHEET C-1.
- 8 INSTALL RSP (20 LB, CLASS I, METHOD B) AT THE OVERSIDE DRAIN. SEE SHEET C-1 FOR MORE DETAILS.
- 9 INSTALL TRANSITION RAILING (TYPE AGT), PER CALTRANS REVISED STD PLAN RSP A79B1.
- 20 CONTRACTOR SHALL VERIFY DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION, CALL 811.
- 22 PROPOSED PULLBOX PROTECT IN PLACE.

POTHOLE INFORMATION		
No.	DESCRIPTION	DEPTH
9	(2) 2" PVC	7.7'

L-5

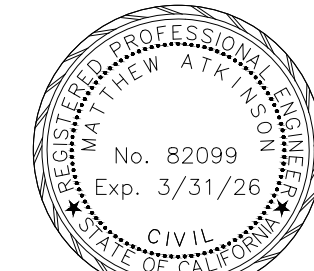
PREPARED BY:



MATTHEW ATKINSON, PROJECT ENGINEER
12/16/24
DATE

MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		

FIELD CHANGES



SAN BERNARDINO COUNTY
DEPARTMENT OF PUBLIC WORKS

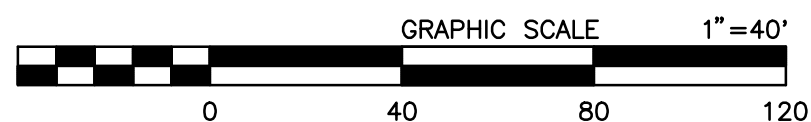
DESIGNED BY:	DRAWN BY:	CHECKED BY:	RECOMMENDED BY:
DH	DH	MA	Chris Nguyen, P.E. TRANSPORTATION DESIGN ENGINEERING MANAGER 1/14/2025 DATE
LEI (ROCKY) LI, P.E. SUPERVISING ENGINEER 1/15/2025 DATE			APPROVED BY: MERVAT K. MIKHAIL, P.E. DEPUTY DIRECTOR 1/16/2025 DATE

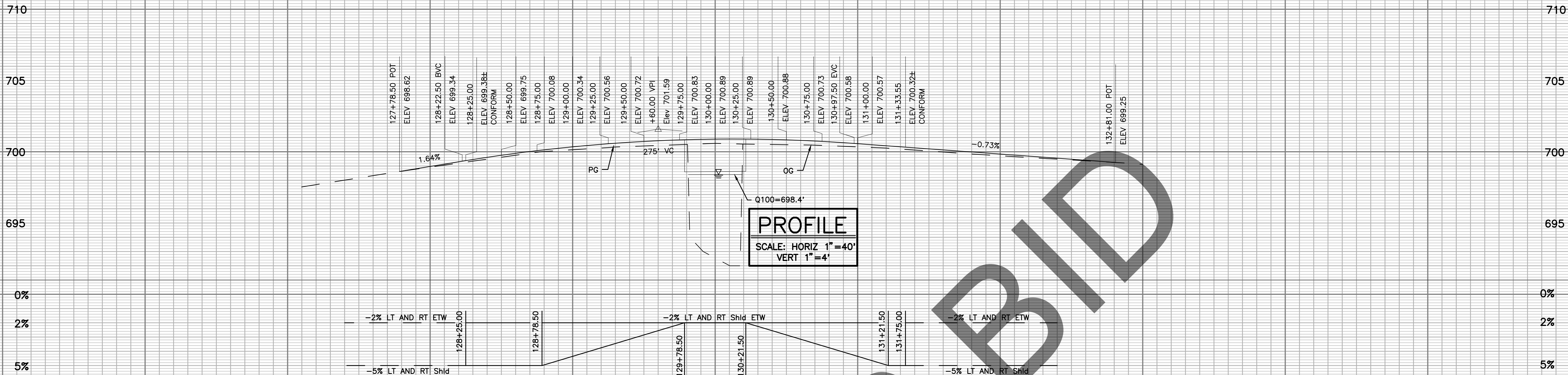
**BRIDGE REPLACEMENT ON
NATIONAL TRAILS HIGHWAY
AT 10 BRIDGES
PLAN AND PROFILE
LEITH DITCH**

J.L. REF.	W.O. NO.	PLAN SCALE	SHT. NO.	TOT. SHT'S.
J.L. 11803	H14915	1"=40'	11	240

LEGEND:

- DIRECTION OF TRAFFIC
- CUT/FILL
- PROPOSED PAVEMENT
- COLD PLANE OVERLAY (HMA)
- DESERT TORTOISE FENCE
- ROCK SLOPE PROTECTION





PROFILE
SCALE: HORIZ 1"=40'
VERT 1"=4'

SUPERELEVATION
SCALE: NOT TO SCALE

CONSTRUCTION NOTES

- 1 PLACE 0.40' HOT MIXED ASPHALT TYPE A OVER 0.45' CLASS 2 AGGREGATE BASE WITH 2 LAYERS OF TACK COAT INBETWEEN.
- 2 INSTALL MIDWEST GUARDRAIL SYSTEM STANDARD RAILING SECTION, PER CALTRANS STD PLAN A77L1, PAINT WHITE PER SPECS.
- 3 INSTALL ALTERNATIVE IN-LINE TERMINAL SYSTEM PER CALTRANS STD. PLAN A77Q1. PAINT WHITE PER SPECS.
- 4 PLACE VEGETATION CONTROL (MINOR CONCRETE) AND BLOCK-OUT MATERIAL PER CALTRANS STD PLAN A77N5 AND A77N6.
- 5 SEE EROSION CONTROL PLANS FOR BMP ON SLOPES PER CASQA STD.
- 6 PLACE HOT MIXED ASPHALT DIKE (TYPE A), PER CALTRANS STD PLAN A77N4 AND A87B.
- 7 COLD PLANE ASPHALT CONCRETE PAVEMENT 2" MIN AND OVERLAY HMA (TYPE A). SEE COLD PLANE OVERLAY (HMA) DETAIL, SHEET C-1.
- 8 INSTALL RSP (20 LB, CLASS I, METHOD B) AT THE OVERSIDE DRAIN. SEE SHEET C-1 FOR MORE DETAILS.
- 9 INSTALL TRANSITION RAILING (TYPE AGT), PER CALTRANS REVISED STD PLAN RSP A79B1.
- 10 TO REMOVE AND RESET HISTORIC MILE MARKER AND CONCRETE MARKERS.
- 20 CONTRACTOR SHALL VERIFY DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION, CALL 811.
- 22 PROPOSED PULLBOX PROTECT IN PLACE.

POTHOLE INFORMATION

No.	DESCRIPTION	DEPTH
11	(2) 2" PVC	9.7'

L-6

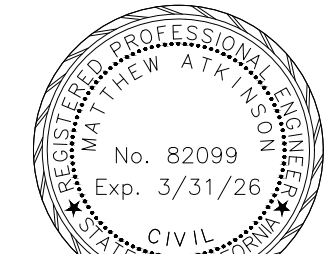
PREPARED BY:

DOKKEN
ENGINEERING
110 BLUE RAINE ROAD SUITE 200, FOLSOM CA, 916-858-0642

MATTHEW ATKINSON, PROJECT ENGINEER
12/16/24
DATE

MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		

FIELD CHANGES

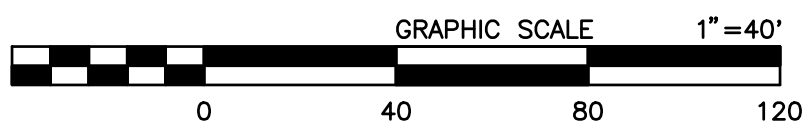


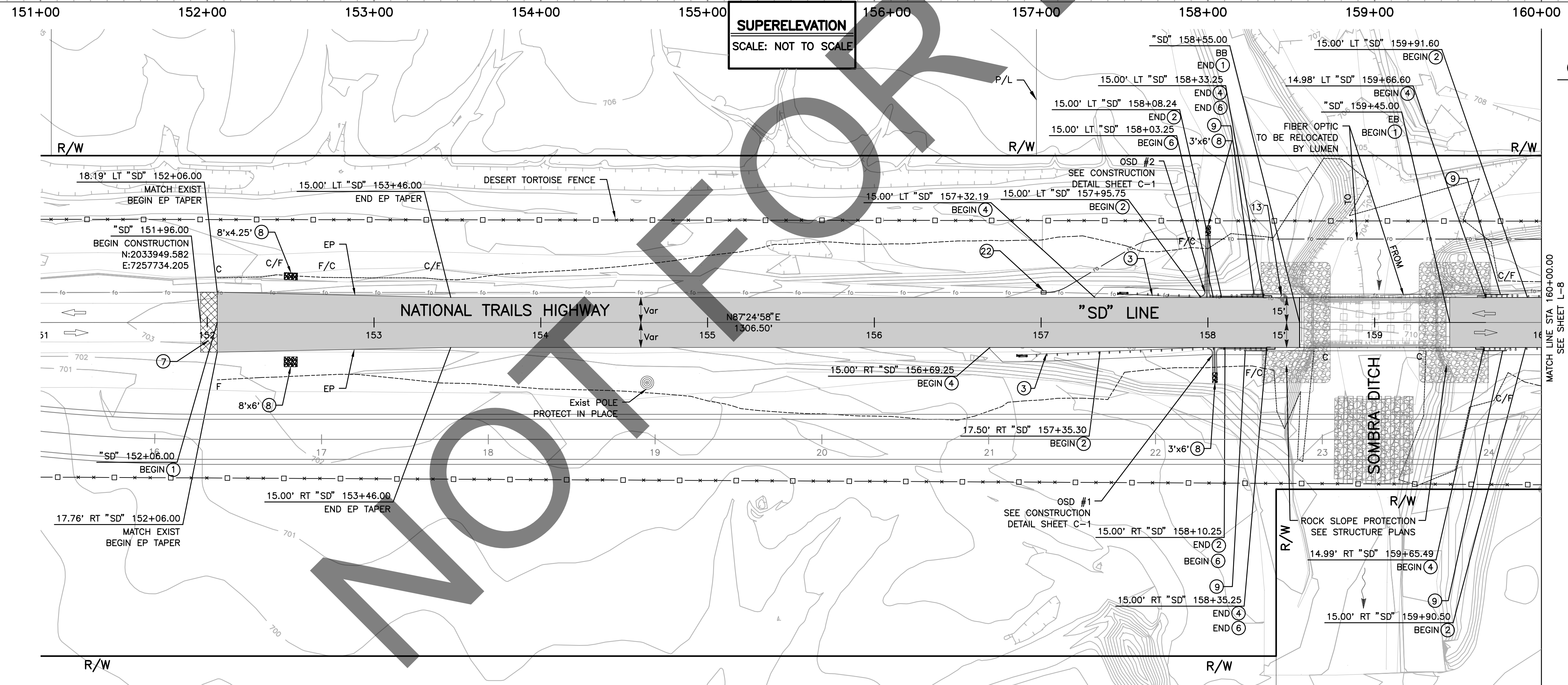
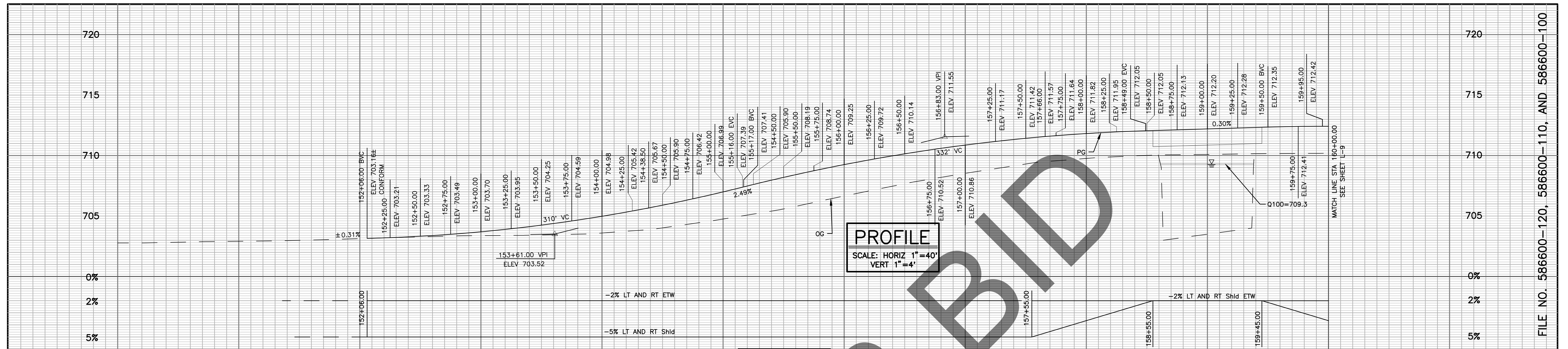
SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS			
DESIGNED BY:	DRAWN BY:	CHECKED BY:	RECOMMENDED BY:
DH	DH	MA	Chris Nguyen, P.E. TRANSPORTATION DESIGN ENGINEERING MANAGER 1/14/2025 DATE
APPROVED BY:		Mervat R. Mikhail, P.E. DEPUTY DIRECTOR 1/16/2025 DATE	
LEI (ROCKY) LI, P.E. SUPERVISING ENGINEER 1/15/2025 DATE			

BRIDGE REPLACEMENT ON NATIONAL TRAILS HIGHWAY AT 10 BRIDGES PLAN AND PROFILE TERRA DITCH			
J.L. REF.	W.O. NO.	PLAN SCALE	SHT. NO.
J.L. 11802	H14914	1"=40'	12
TOT. SHT'S.		240	

LEGEND:

- DIRECTION OF TRAFFIC
- CUT/FILL
- PROPOSED PAVEMENT
- COLD PLANE OVERLAY (HMA)
- DESERT TORTOISE FENCE
- ROCK SLOPE PROTECTION





- CONSTRUCTION NOTES

 - 1 PLACE 0.40" HOT MIXED ASPHALT TYPE A OVER 0.45' CLASS 2 AGGREGATE BASE WITH 2 LAYERS OF TACK COAT INBETWEEN.
 - 2 INSTALL MIDWEST GUARDRAIL SYSTEM STANDARD RAILING SECTION, PER CALTRANS STD PLAN A77L1, PAINT WHITE PER SPECS.
 - 3 INSTALL ALTERNATIVE IN-LINE TERMINAL SYSTEM PER CALTRANS STD. PLAN A77Q1. PAINT WHITE PER SPECS.
 - 4 PLACE VEGETATION TREATMENT (MINOR CONCRETE) AND BLOCK-OUT MATERIAL PER CALTRANS STD PLAN A77N5 AND A77N6.
 - 5 SEE EROSION CONTROL PLANS FOR BMP ON SLOPES PER CASQA STD.
 - 6 PLACE HOT MIXED ASPHALT DIKE (TYPE A), PER CALTRANS STD PLAN A77N4 AND A77B.
 - 7 COLD PLANE ASPHALT CONCRETE PAVEMENT 2" MIN AND OVERLAY HMA (TYPE A). SEE COLD PLANE OVERLAY (HMA) DETAIL, SHEET C-1.
 - 8 INSTALL RSP (20 LB, CLASS I, METHOD B) AT THE OVERSIDE DRAIN. SEE SHEET C-1 FOR MORE DETAILS.
 - 9 INSTALL TRANSITION RAILING (TYPE AGT), PER CALTRANS REVISED STD PLAN RSP A79B1.
 - 20 CONTRACTOR SHALL VERIFY DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION, CALL 811.
 - 22 PROPOSED PULLBOX PROTECT IN PLACE.

POTHOLE INFORMATION		
 No.	DESCRIPTION	DEPTH
13	(2) 2" PVC	12.0'

L-7

PREPARED BY:



110 BLUE RAVINE ROAD SUITE 200, FOLSOM CA. 916-858-0642

MATTHEW ATKINSON, PROJECT ENGINEER

12/16/24
DATE

[illegible]

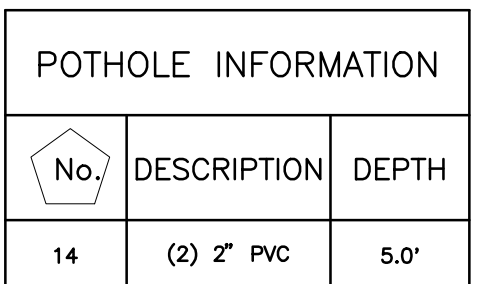
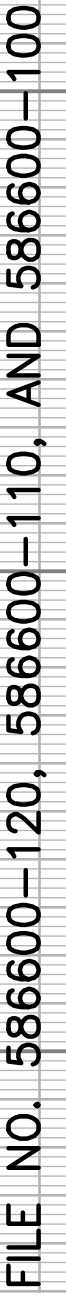
SAN BERNARDINO COUNTY
DEPARTMENT OF PUBLIC WORKS

DESIGNED BY:	DRAWN BY:	CHECKED BY:	RECOMMENDED BY:	1/14/2025
DH	DH	MA	CHRIS NGUYEN, P.E. TRANSPORTATION DESIGN ENGINEERING	DH
1/15/2025		APPROVED BY:		
LEI (ROCKY) LI, P.E. SUPERVISING ENGINEER	DATE	Mervat R. Mikhail, P.E. DERIVATION ENGINEER		1/16/2025

BRIDGE REPLACEMENT ON NATIONAL TRAILS HIGHWAY AT 10 BRIDGES PLAN AND PROFILE SOMBRA DITCH

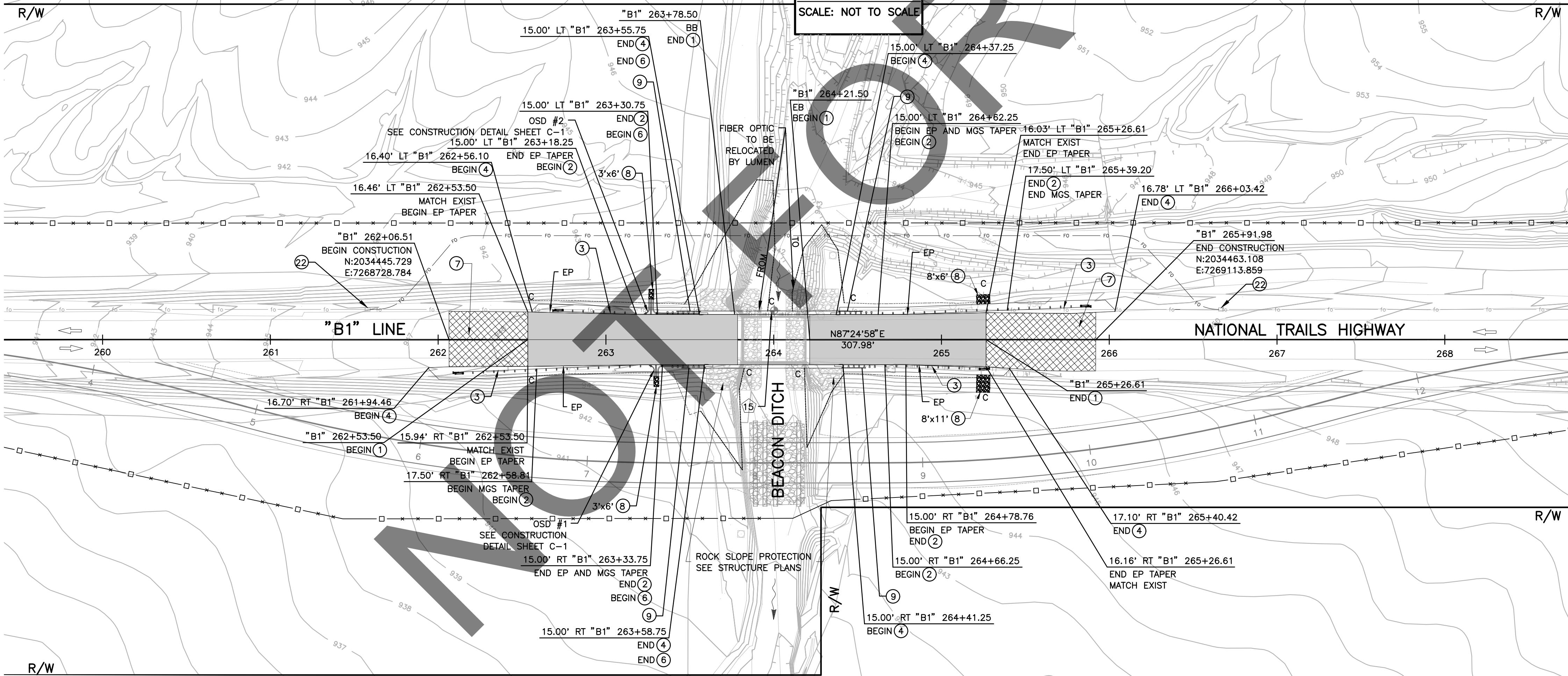
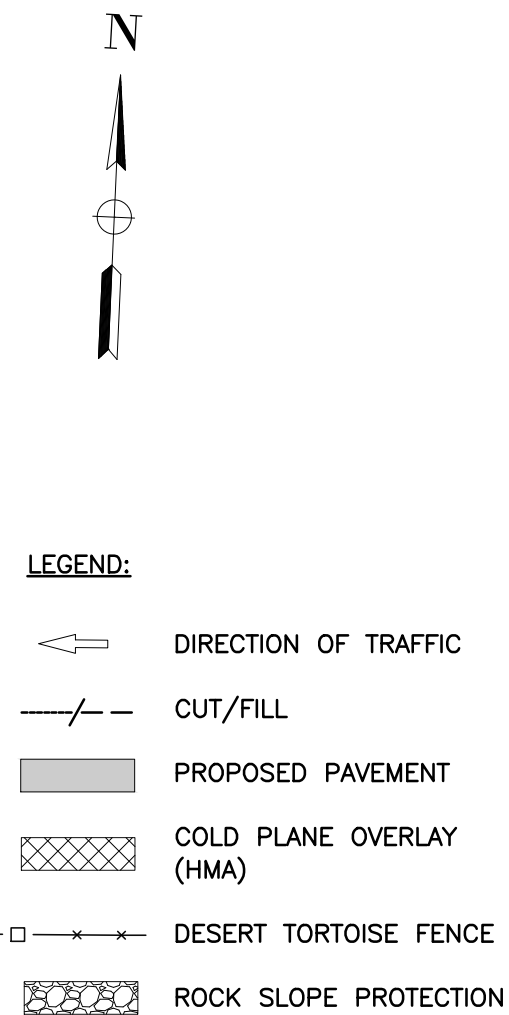
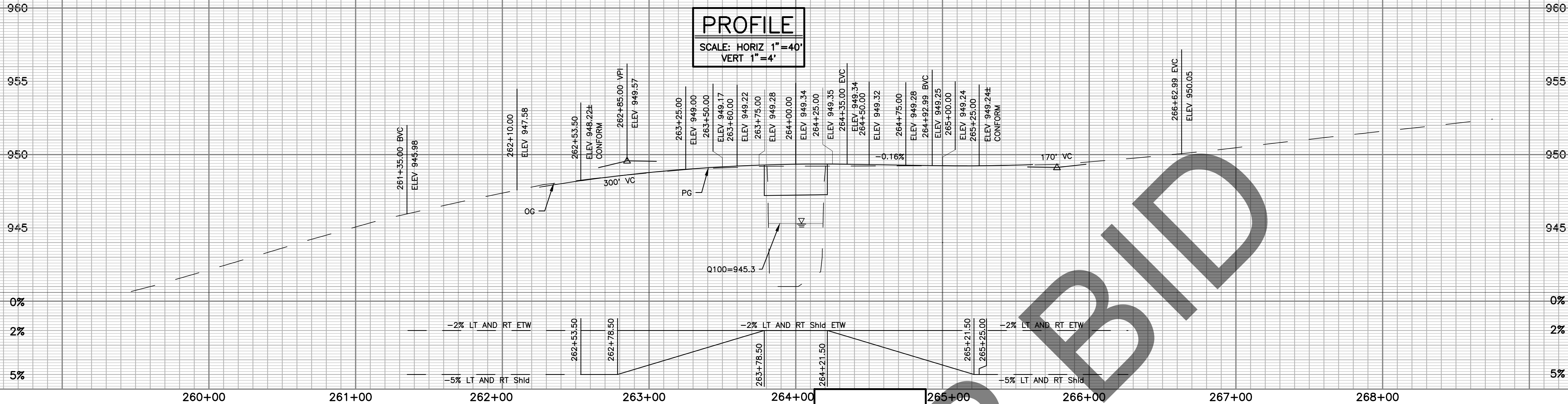
J.L. REF.	W.O. NO.	PLAN SCALE	SHT. NO.	TOT. SHT'S.
J.L. 11799	H14911	1"=40'	13	240

FILE NO. 586600-120,
586600-110, AND 586600-100



J.L. REF.	W.O. NO.	PLAN SCALE	SHT. NO.	TOT. SHT'S.
J.L. 11799	H14911	1"=40'	14	240

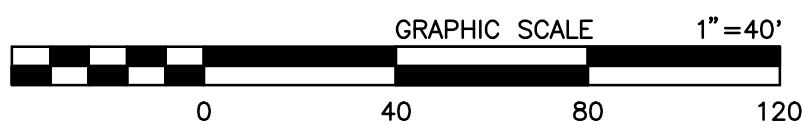
L-8



- CONSTRUCTION NOTES**
- PLACE 0.40' HOT MIXED ASPHALT TYPE A OVER 0.45' CLASS 2 AGGREGATE BASE WITH 2 LAYERS OF TACK COAT IN BETWEEN.
 - INSTALL MIDWEST GUARDRAIL SYSTEM STANDARD RAILING SECTION, PER CALTRANS STD PLAN A77L1, PAINT WHITE PER SPECS.
 - INSTALL ALTERNATIVE IN-LINE TERMINAL SYSTEM PER CALTRANS STD. PLAN A77Q1. PAINT WHITE PER SPECS.
 - PLACE VEGETATION CONTROL (MINOR CONCRETE) AND BLOCK-OUT MATERIAL PER CALTRANS STD PLAN A77N5 AND A77N6.
 - SEE EROSION CONTROL PLANS FOR BMP ON SLOPES PER CASQA STD.
 - PLACE HOT MIXED ASPHALT DIKE (TYPE A), PER CALTRANS STD PLAN A77N4 AND A87B.
 - COLD PLANE ASPHALT CONCRETE PAVEMENT 2" MIN AND OVERLAY HMA (TYPE A). SEE COLD PLANE OVERLAY (HMA) DETAIL, SHEET C-1.
 - INSTALL RSP (20 LB, CLASS I, METHOD B) AT THE OVERSIDE DRAIN. SEE SHEET C-1 FOR MORE DETAILS.
 - INSTALL TRANSITION RAILING (TYPE AGT), PER CALTRANS REVISED STD PLAN RSP A79B1.
 - CONTRACTOR SHALL VERIFY DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION, CALL 811.
 - PROPOSED PULLBOX PROTECT IN PLACE.

POTHOLE INFORMATION		
No.	DESCRIPTION	DEPTH
15	(2) 2" PVC	5.0'

L-9



PREPARED BY:
DOKKEN ENGINEERING
110 BLUE RAVINE ROAD SUITE 200, FOLSOM, CA 95630-0642
MATTHEW ATKINSON, PROJECT ENGINEER
12/16/24 DATE

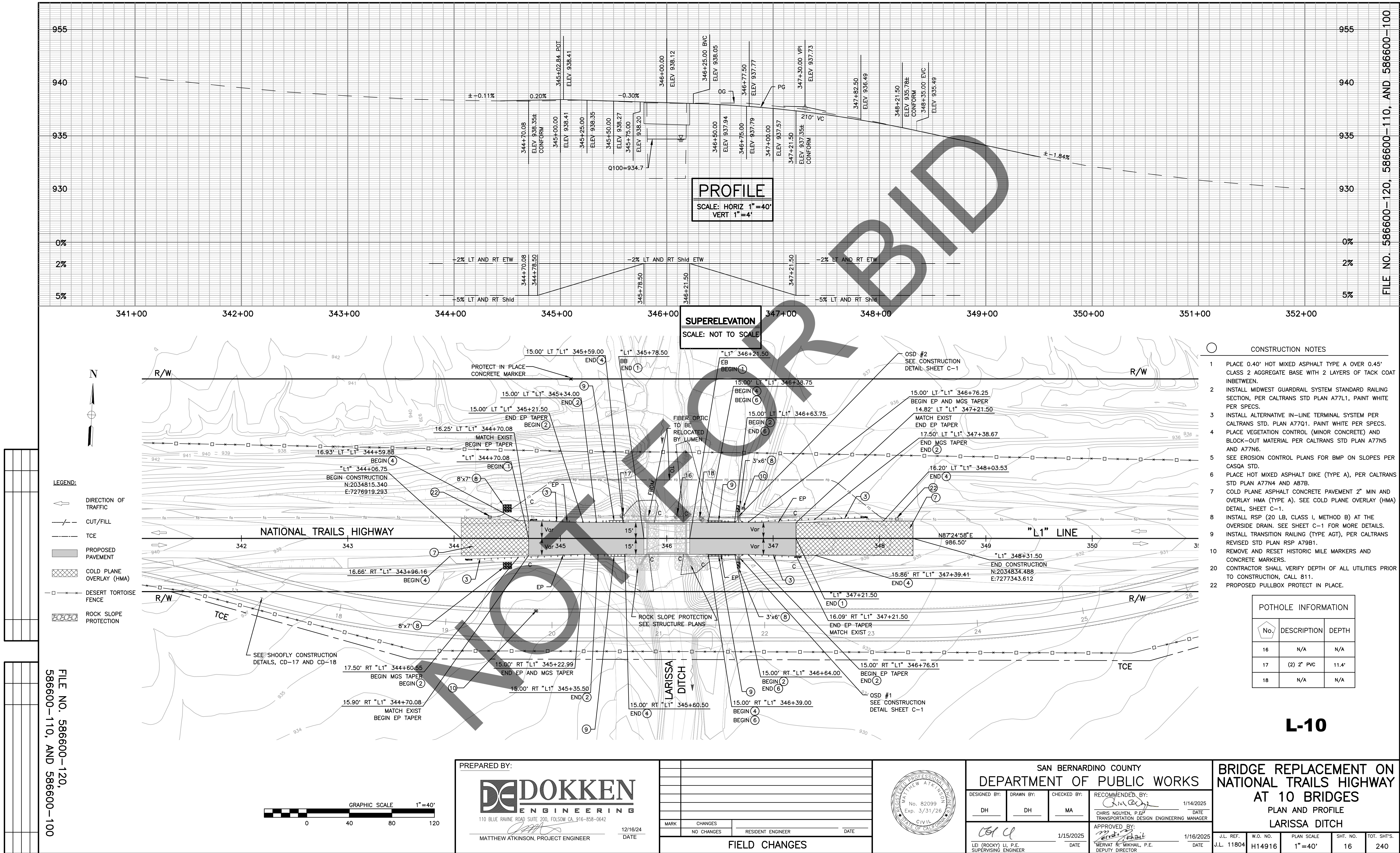
MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		

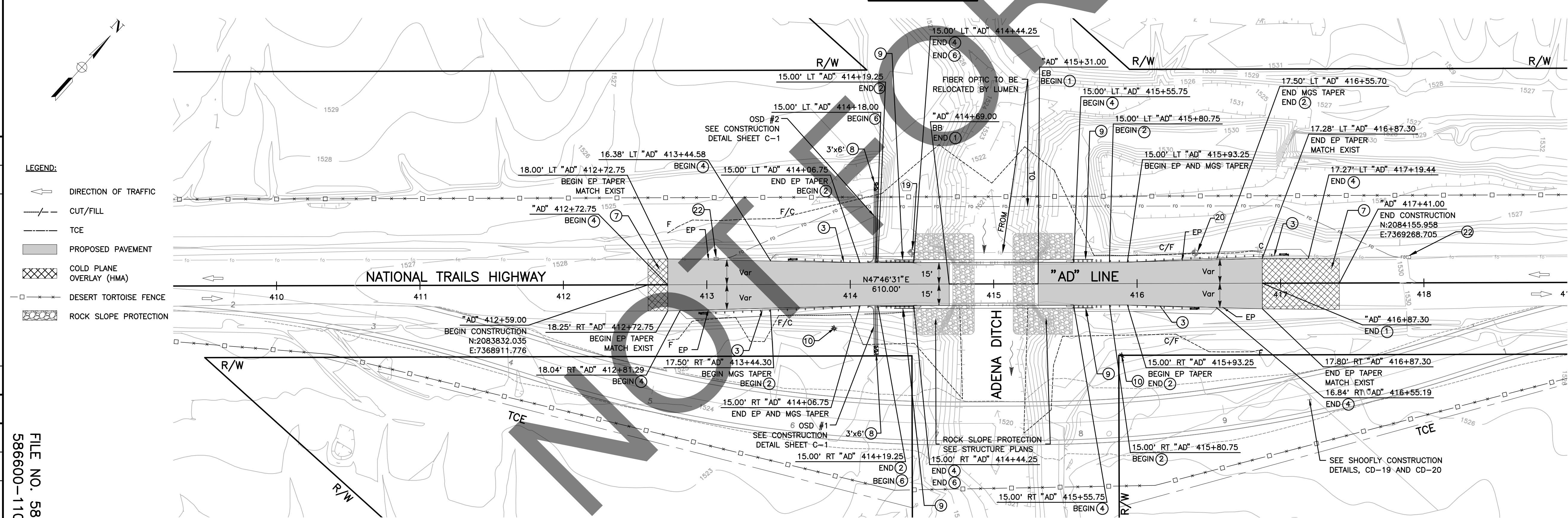
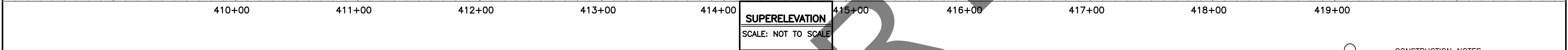
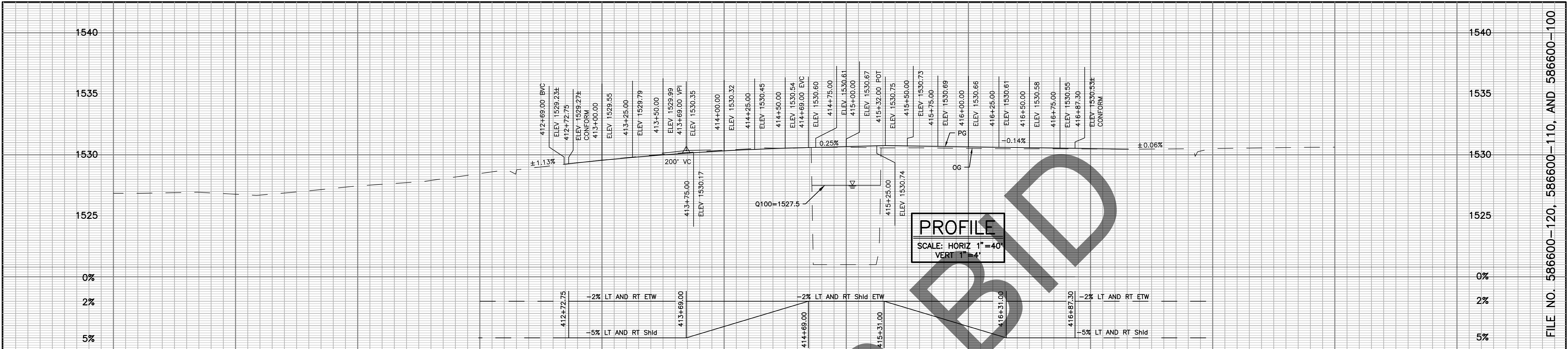
FIELD CHANGES



SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS			
DESIGNED BY: DH	DRAWN BY: DH	CHECKED BY: MA	RECOMMENDED BY: 1/14/2025 DATE CHRIS NGUYEN, P.E. TRANSPORTATION DESIGN ENGINEERING MANAGER
APPROVED BY: 1/15/2025 DATE LEI (ROCKY) LI, P.E. SUPERVISING ENGINEER			APPROVED BY: 1/16/2025 DATE MERVAT K. MIKHAIL, P.E. DEPUTY DIRECTOR

BRIDGE REPLACEMENT ON NATIONAL TRAILS HIGHWAY AT 10 BRIDGES PLAN AND PROFILE BEACON DITCH				
J.L. REF. J.L. 11801	W.O. NO. H14913	PLAN SCALE 1"=40'	SHT. NO. 15	TOT. SHT'S. 240



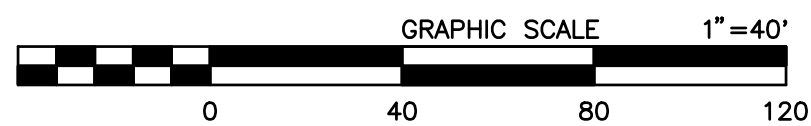


- CONSTRUCTION NOTES
- 1 PLACE 0.40' HOT MIXED ASPHALT TYPE A OVER 0.45' CLASS 2 AGGREGATE BASE WITH 2 LAYERS OF TACK COAT INBETWEEN.
 - 2 INSTALL MIDWEST GUARDRAIL SYSTEM STANDARD RAILING SECTION, PER CALTRANS STD PLAN A77L1, PAINT WHITE PER SPECS.
 - 3 INSTALL ALTERNATIVE IN-LINE TERMINAL SYSTEM PER CALTRANS STD. PLAN A77Q1. PAINT WHITE PER SPECS.
 - 4 PLACE VEGETATION CONTROL (MINOR CONCRETE) AND BLOCK-OUT MATERIAL PER CALTRANS STD PLAN A77N5 AND A77N6.
 - 5 SEE EROSION CONTROL PLANS FOR BMP ON SLOPES PER CASQA STD.
 - 6 PLACE HOT MIXED ASPHALT DIKE (TYPE A), PER CALTRANS STD PLAN A77N4 AND A87B.
 - 7 COLD PLANE ASPHALT CONCRETE PAVEMENT 2" MIN AND OVERLAY HMA (TYPE A). SEE COLD PLANE OVERLAY (HMA) DETAIL, SHEET C-1.
 - 8 INSTALL RSP (20 LB, CLASS I, METHOD B) AT THE OVERSIDE DRAIN. SEE SHEET C-1 FOR MORE DETAILS.
 - 9 INSTALL TRANSITION RAILING (TYPE AGT), PER CALTRANS REVISED STD PLAN RSP A79B1.
 - 10 TO REMOVE AND RESET HISTORIC MILE MARKERS AND CONCRETE MARKERS.
 - 20 CONTRACTOR SHALL VERIFY DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION, CALL 811.
 - 22 PROPOSED PULLBOX PROTECT IN PLACE.

POTHOLE INFORMATION		
No.	DESCRIPTION	DEPTH
19	(2) 2" PVC	10.1'
20	(2) 2" PVC	6.7'

L-11

FILE NO. 586600-120,
586600-110, AND 586600-100



PREPARED BY:

DOKKEN ENGINEERING

110 BLUE RAINE ROAD SUITE 200, FOLSOM CA, 916-858-0642

12/16/24 DATE

MATTHEW ATKINSON, PROJECT ENGINEER

MARK

CHANGES	RESIDENT ENGINEER	DATE
NO CHANGES		

FIELD CHANGES

SAN BERNARDINO COUNTY
DEPARTMENT OF PUBLIC WORKS

DESIGNED BY: DH
DRAWN BY: DH
CHECKED BY: MA
RECOMMENDED BY: *Chris Nguyen* 1/14/2025
DATE
CHRIS NGUYEN, P.E.
TRANSPORTATION DESIGN ENGINEERING MANAGER

APPROVED BY: *Mervat R. Mikhail* 1/16/2025
DATE
MERVAT R. MIKHAIL, P.E.
DEPUTY DIRECTOR

BRIDGE REPLACEMENT ON
NATIONAL TRAILS HIGHWAY
AT 10 BRIDGES
PLAN AND PROFILE
ADENA DITCH

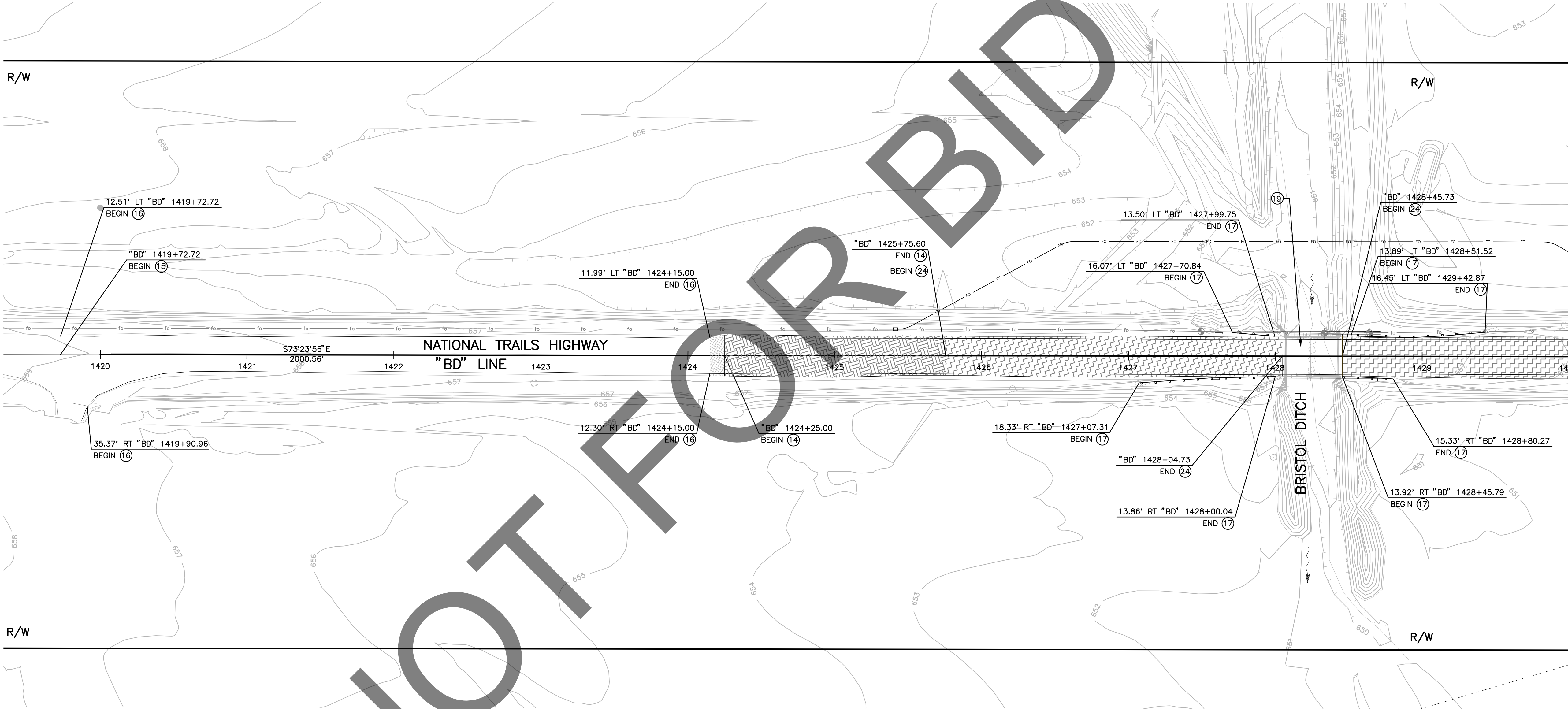
J.L. REF.	W.O. NO.	PLAN SCALE	SHT. NO.	TOT. SHT'S.
J.L. 11797	H14853	1"=40'	17	240

NOTE:
1. SEE CONSTRUCTION AREA SIGNS FOR
TEMPORARY TRAFFIC CONTROL GENERAL NOTES.

LEGEND:

- ROADWAY EXCAVATION
- PULVERIZE AC SURFACING
- COLD PLANE OVERLAY (HMA)
- PROPOSED FO
- EXIST FO
- GUARDRAIL
- DITCH FLOW

- CONSTRUCTION NOTES
- 14 ROADWAY EXCAVATION.
- 15 REMOVE YELLOW PAINTED TRAFFIC STRIPE (HAZARDOUS WASTE).
- 16 REMOVE PAINTED TRAFFIC STRIPE.
- 17 REMOVE GUARDRAIL.
- 19 REMOVE BRIDGE.
- 20 CONTRACTOR SHALL VERIFY DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION, CALL 811.
- 24 PULVERIZE SURFACE TO A MINIMUM DEPTH OF 6" OR TO THE BOTTOM OF THE IMPERMEABLE UNDERLYING BASE.



MATCH LINE STA 1430+00
SEE SHEET RV-2

RV-1

PREPARED BY:

DOKKEN
ENGINEERING
110 BLUE RAINE ROAD SUITE 200, FOLSOM, CA 916-858-0642
MATTHEW ATKINSON, PROJECT ENGINEER
12/16/24
DATE

MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		
FIELD CHANGES			



SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS			
DESIGNED BY: DH	DRAWN BY: DH	CHECKED BY: MA	RECOMMENDED BY: CHRIS NGUYEN, P.E. TRANSPORTATION DESIGN ENGINEERING MANAGER 1/14/2025 DATE
APPROVED BY: LEI (ROCKY) LI, P.E. SUPERVISING ENGINEER 1/15/2025 DATE	APPROVED BY: MERVAT R. MIKHAIL, P.E. DEPUTY DIRECTOR 1/16/2025 DATE		

BRIDGE REPLACEMENT ON NATIONAL TRAILS HIGHWAY AT 10 BRIDGES REMOVAL PLAN BRISTOL DITCH			
J.L. REF. J.L. 11798	W.O. NO. H14910	PLAN SCALE 1"=40'	SHT. NO. 18 TOT. SHT'S. 240

FILE NO. 586600-120,
586600-110, AND 586600-100

FILE NO. 586600-120, 586600-110, AND 586600-100

NOTES:

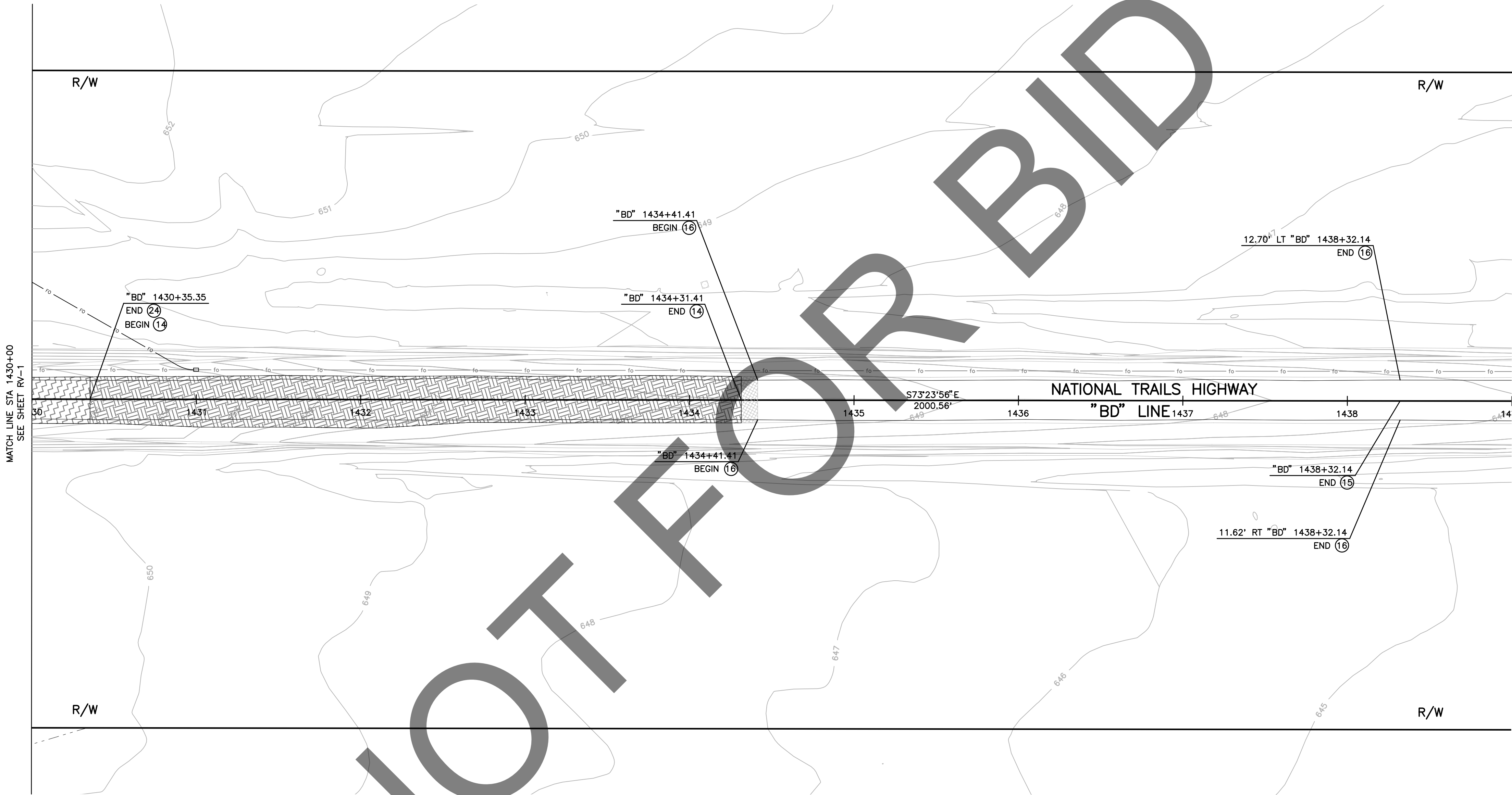
1. SEE DETOUR PLAN FOR TRAFFIC GENERAL NOTES.

LEGEND:

- ROADWAY EXCAVATION
- PULVERIZE AC SURFACING
- COLD PLANE OVERLAY (HMA)
- PROPOSED FO
- EXIST FO
- GUARDRAIL

CONSTRUCTION NOTES

- 14 ROADWAY EXCAVATION.
- 15 REMOVE YELLOW PAINTED TRAFFIC STRIPE (HAZARDOUS WASTE).
- 16 REMOVE PAINTED TRAFFIC STRIPE.
- 20 CONTRACTOR SHALL VERIFY DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION, CALL 811.
- 24 PULVERIZE SURFACE TO A MINIMUM DEPTH OF 6" OR TO THE BOTTOM OF THE IMPERMEABLE UNDERLYING BASE.



RV-2

PREPARED BY:

DOKKEN ENGINEERING

110 BLUE RAINE ROAD SUITE 200, FOLSOM, CA 916-858-0642

MATTHEW ATKINSON, PROJECT ENGINEER

12/16/24 DATE

MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		
FIELD CHANGES			



SAN BERNARDINO COUNTY
DEPARTMENT OF PUBLIC WORKS

DESIGNED BY: DH	DRAWN BY: DH	CHECKED BY: MA	RECOMMENDED BY: CHRIS NGUYEN, P.E. TRANSPORTATION DESIGN ENGINEERING MANAGER 1/14/2025 DATE
APPROVED BY: LEI (ROCKY) LI, P.E. SUPERVISING ENGINEER 1/15/2025 DATE			APPROVED BY: MERVAT R. MIKHAIL, P.E. DEPUTY DIRECTOR 1/16/2025 DATE

BRIDGE REPLACEMENT ON
NATIONAL TRAILS HIGHWAY
AT 10 BRIDGES
REMOVAL PLAN
BRISTOL DITCH

J.L. REF. J.L. 11798	W.O. NO. H14910	PLAN SCALE 1"=40'	SHT. NO. 19	TOT. SHT'S. 240
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FILE NO. 586600-120,
586600-110, AND 586600-100

FILE NO. 586600-120, 586600-110, AND 586600-100

NOTES:

1. SEE CONSTRUCTION AREA SIGNS FOR TEMPORARY TRAFFIC CONTROL GENERAL NOTES.

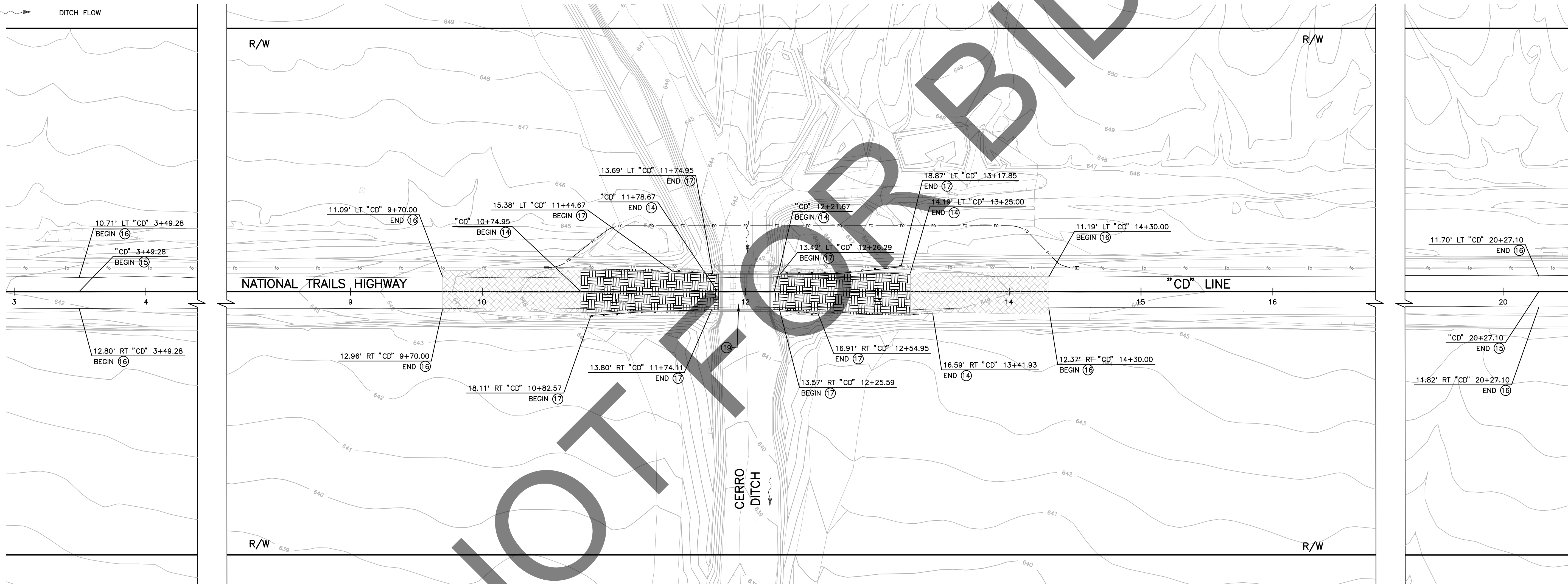
LEGEND:

- ROADWAY EXCAVATION
- PULVERIZE AC SURFACING
- COLD PLANE OVERLAY (HMA)
- PROPOSED FO
- EXIST FO
- GUARDRAIL
- DITCH FLOW

N

CONSTRUCTION NOTES

- 14 ROADWAY EXCAVATION.
- 15 REMOVE YELLOW PAINTED TRAFFIC STRIPE (HAZARDOUS WASTE).
- 16 REMOVE PAINTED TRAFFIC STRIPE.
- 17 REMOVE GUARDRAIL.
- 19 REMOVE BRIDGE.
- 20 CONTRACTOR SHALL VERIFY DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION, CALL 811.



RV-3

PREPARED BY:

DOKKEN
ENGINEERING
110 BLUE RAINE ROAD SUITE 200, FOLSOM CA, 916-858-0642

MATTHEW ATKINSON, PROJECT ENGINEER

12/16/24
DATE

MARK CHANGES NO CHANGES RESIDENT ENGINEER DATE

FIELD CHANGES



SAN BERNARDINO COUNTY
DEPARTMENT OF PUBLIC WORKS

DESIGNED BY: DH DRAWN BY: DH CHECKED BY: MA RECOMMENDED BY: 1/14/2025
CHRIS NGUYEN, P.E., TRANSPORTATION DESIGN ENGINEERING MANAGER
APPROVED BY: 1/15/2025 1/16/2025
LEI (ROCKY) LI, P.E., SUPERVISING ENGINEER DATE DATE
MERVAT R. MIKHAIL, P.E., DEPUTY DIRECTOR DATE

BRIDGE REPLACEMENT ON
NATIONAL TRAILS HIGHWAY
AT 10 BRIDGES

REMOVAL PLAN
CERRO DITCH

J.L. REF. W.O. NO. PLAN SCALE SHT. NO. TOT. SHT'S.
J.L. 11800 H14912 1"=40' 20 240

FILE NO. 586600-120,
586600-110, AND 586600-100

FILE NO. 586600-120, 586600-110, AND 586600-100

NOTES:

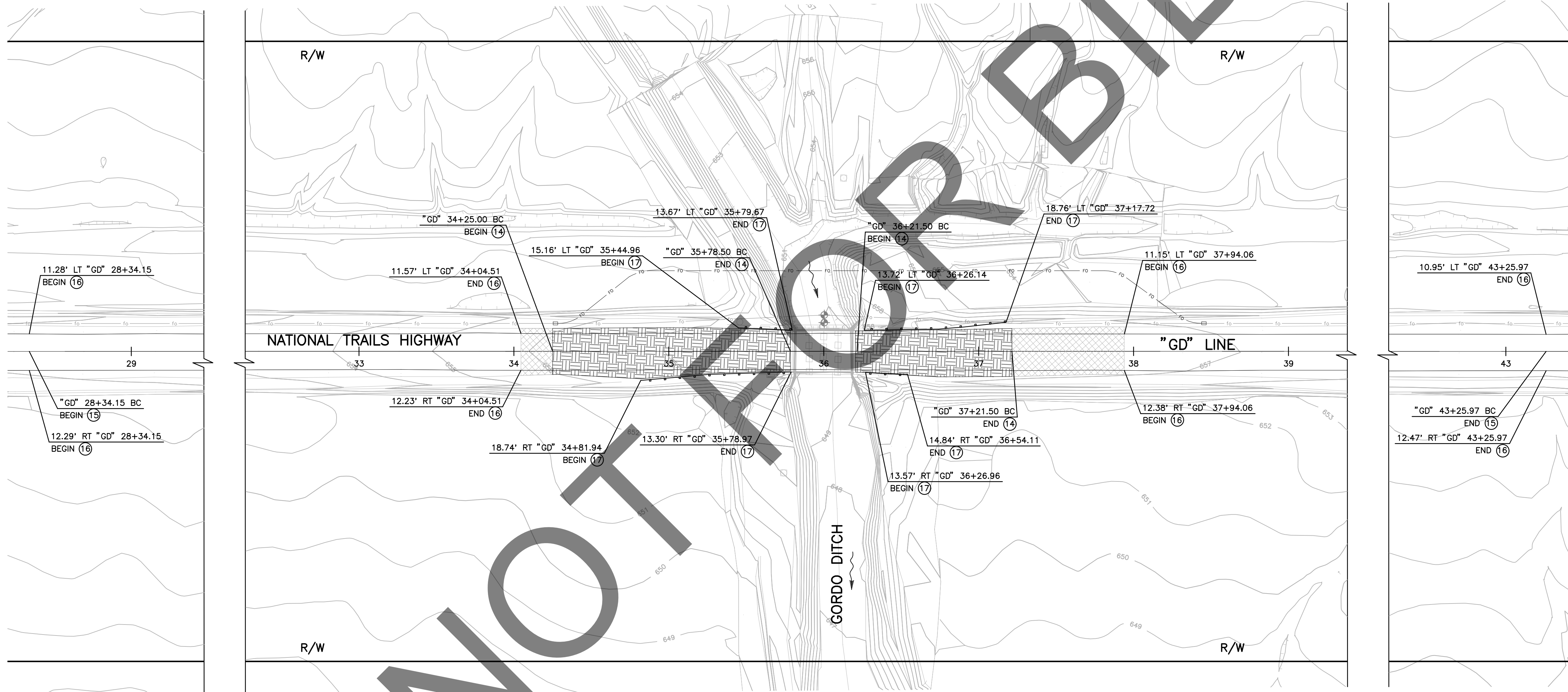
1. SEE CONSTRUCTION AREA SIGNS FOR
TEMPORARY TRAFFIC CONTROL GENERAL NOTES.

LEGEND:

- ROADWAY EXCAVATION
- COLD PLANE OVERLAY (HMA)
- PROPOSED FO
- EXIST FO
- GUARDRAIL
- DITCH FLOW

CONSTRUCTION NOTES

- 14 ROADWAY EXCAVATION
- 15 REMOVE YELLOW PAINTED TRAFFIC STRIPE (HAZARDOUS WASTE).
- 16 REMOVE PAINTED TRAFFIC STRIPE.
- 17 REMOVE GUARDRAIL.
- 19 REMOVE BRIDGE.
- 20 CONTRACTOR SHALL VERIFY DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION, CALL 811.



RV-4

PREPARED BY:

DOKKEN
ENGINEERING
110 BLUE RAINE ROAD SUITE 200, FOLSOM, CA 916-858-0642

MATTHEW ATKINSON, PROJECT ENGINEER

12/18/24
DATE

MARK CHANGES NO CHANGES RESIDENT ENGINEER DATE

FIELD CHANGES

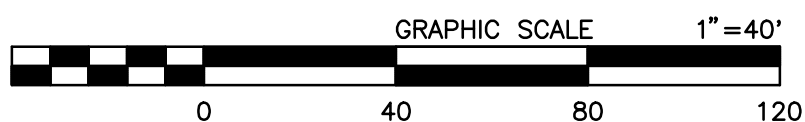


SAN BERNARDINO COUNTY
DEPARTMENT OF PUBLIC WORKS

DESIGNED BY: DH DRAWN BY: DH CHECKED BY: MA RECOMMENDED BY: 1/14/2025
CHRIS NGUYEN, P.E.
TRANSPORTATION DESIGN ENGINEERING MANAGER
APPROVED BY: 1/16/2025
LEI (ROCKY) LI, P.E.
SUPERVISING ENGINEER
Mervat R. Mikhail, P.E.
DEPUTY DIRECTOR

BRIDGE REPLACEMENT ON
NATIONAL TRAILS HIGHWAY
AT 10 BRIDGES
REMOVAL PLAN
GORDO DITCH

J.L. REF. W.O. NO. PLAN SCALE SHT. NO. TOT. SHT'S.
J.L. 11805 H14917 1"=40' 21 240



FILE NO. 586600-120,
586600-110, AND 586600-100

FILE NO. 586600-120, 586600-110, AND 586600-100

NOTES:

1. SEE CONSTRUCTION AREA SIGNS FOR
TEMPORARY TRAFFIC CONTROL GENERAL NOTES.

LEGEND:

- ROADWAY EXCAVATION
- COLD PLANE OVERLAY (HMA)
- PROPOSED FO
- EXIST FO
- GUARDRAIL
- DITCH FLOW

CONSTRUCTION NOTES

- 14 ROADWAY EXCAVATION.
- 15 REMOVE YELLOW PAINTED TRAFFIC STRIPE (HAZARDOUS
WASTE).
- 16 REMOVE PAINTED TRAFFIC STRIPE.
- 17 REMOVE GUARDRAIL.
- 19 REMOVE BRIDGE.
- 20 CONTRACTOR SHALL VERIFY DEPTH OF ALL UTILITIES
PRIOR TO CONSTRUCTION, CALL 811.

FILE NO. 586600-120, 586600-110, AND 586600-100

PREPARED BY:

DOKKEN
ENGINEERING

110 BLUE RAINE ROAD SUITE 200, FOLSOM, CA 95630-0642

MATTHEW ATKINSON, PROJECT ENGINEER

12/18/24
DATE

MARK CHANGES NO CHANGES RESIDENT ENGINEER DATE

FIELD CHANGES



SAN BERNARDINO COUNTY
DEPARTMENT OF PUBLIC WORKS

DESIGNED BY: DH DRAWN BY: DH CHECKED BY: MA RECOMMENDED BY: 1/14/2025
CHRIS NGUYEN, P.E.
TRANSPORTATION DESIGN ENGINEERING MANAGER
APPROVED BY: 1/15/2025
LEI (ROCKY) LI, P.E.
SUPERVISING ENGINEER
1/16/2025
MERVAT R. MIKHAIL, P.E.
DEPUTY DIRECTOR

BRIDGE REPLACEMENT ON
NATIONAL TRAILS HIGHWAY
AT 10 BRIDGES
REMOVAL PLAN
CERULIA DITCH

J.L. REF. W.O. NO. PLAN SCALE SHT. NO. TOT. SHT'S.
J.L. 11808 H14918 1"=40' 22 240

NOTES:
1. SEE CONSTRUCTION AREA SIGNS FOR
TEMPORARY TRAFFIC CONTROL GENERAL NOTES.

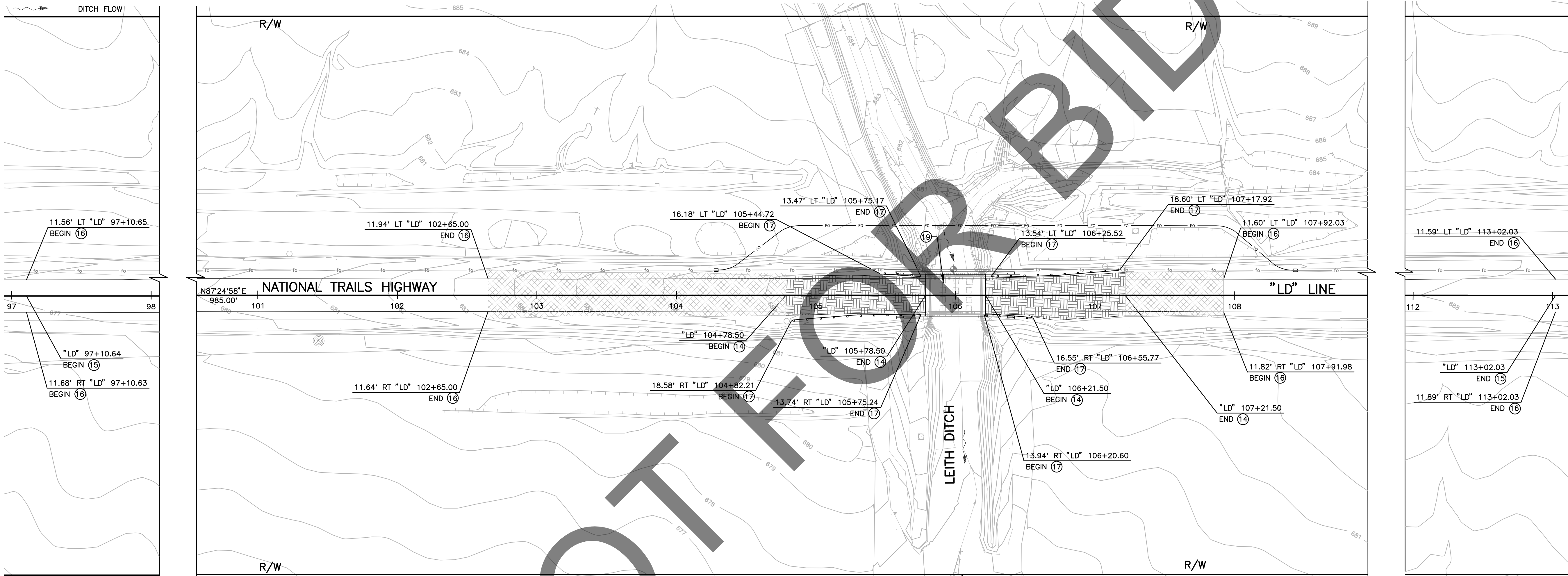
LEGEND:

- ROADWAY EXCAVATION
- COLD PLANE OVERLAY (HMA)
- PROPOSED FO
- EXIST FO
- GUARDRAIL
- DITCH FLOW

N

CONSTRUCTION NOTES

- 14 ROADWAY EXCAVATION.
- 15 REMOVE YELLOW PAINTED TRAFFIC STRIPE (HAZARDOUS WASTE).
- 16 REMOVE PAINTED TRAFFIC STRIPE.
- 17 REMOVE GUARDRAIL.
- 19 REMOVE BRIDGE.
- 20 CONTRACTOR SHALL VERIFY DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION, CALL 811.



RV-6

PREPARED BY:

DOKKEN
ENGINEERING
110 BLUE RAVINE ROAD SUITE 200, FOLSOM, CA 95660-1100
MATTHEW ATKINSON, PROJECT ENGINEER
12/16/24
DATE

MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		



SAN BERNARDINO COUNTY
DEPARTMENT OF PUBLIC WORKS

DESIGNED BY:	DRAWN BY:	CHECKED BY:	RECOMMENDED BY:
DH	DH	MA	Chris Nguyen, P.E., TRANSPORTATION DESIGN ENGINEERING MANAGER 1/14/2025 DATE
LEI (ROCKY) LI, P.E., SUPERVISING ENGINEER 1/15/2025 DATE			APPROVED BY: Mervat R. Mikhail, P.E., DEPUTY DIRECTOR 1/16/2025 DATE

BRIDGE REPLACEMENT ON
NATIONAL TRAILS HIGHWAY
AT 10 BRIDGES
REMOVAL PLAN
LEITH DITCH

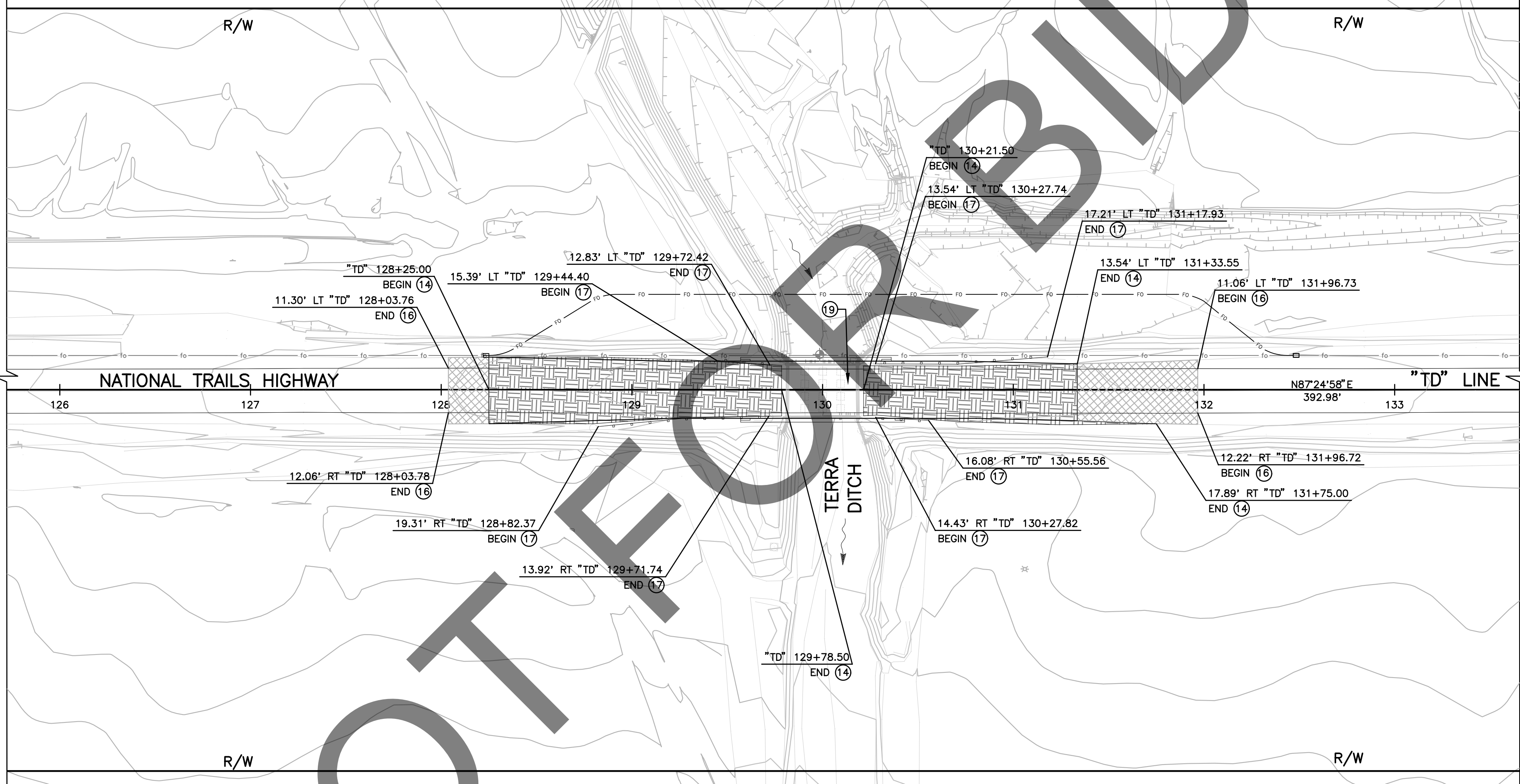
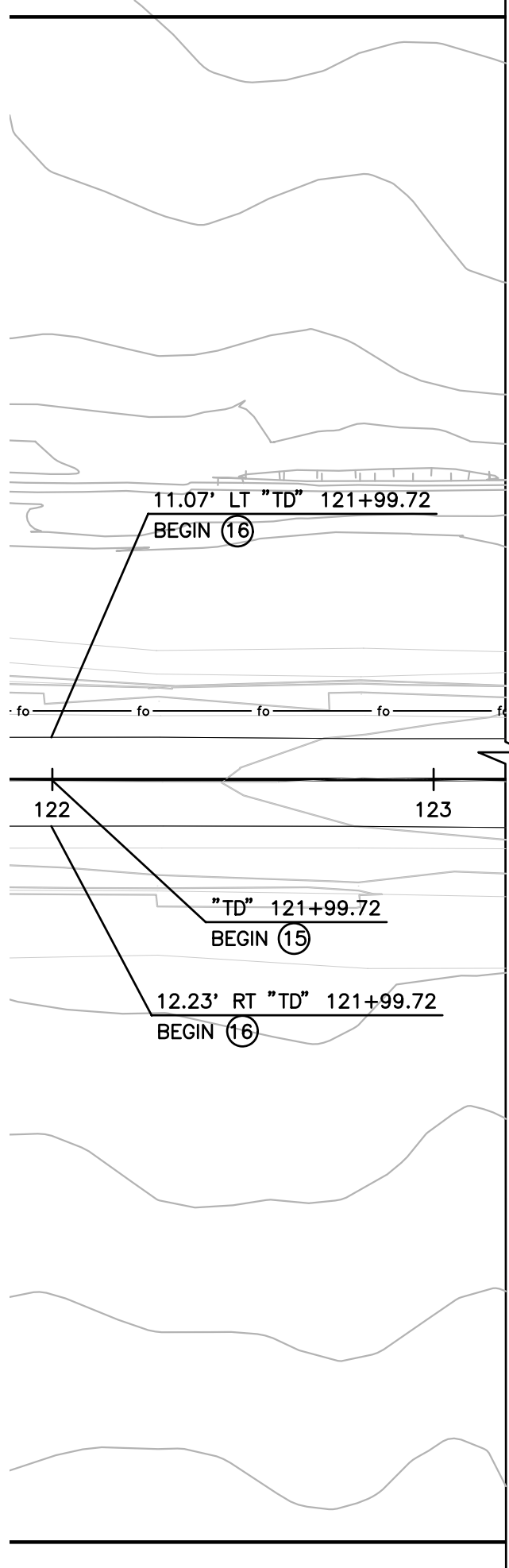
J.L. REF.	W.O. NO.	PLAN SCALE	SHT. NO.	TOT. SHT'S.
J.L. 11803	H14915	1"=40'	23	240

FILE NO. 586600-120,
586600-110, AND 586600-100

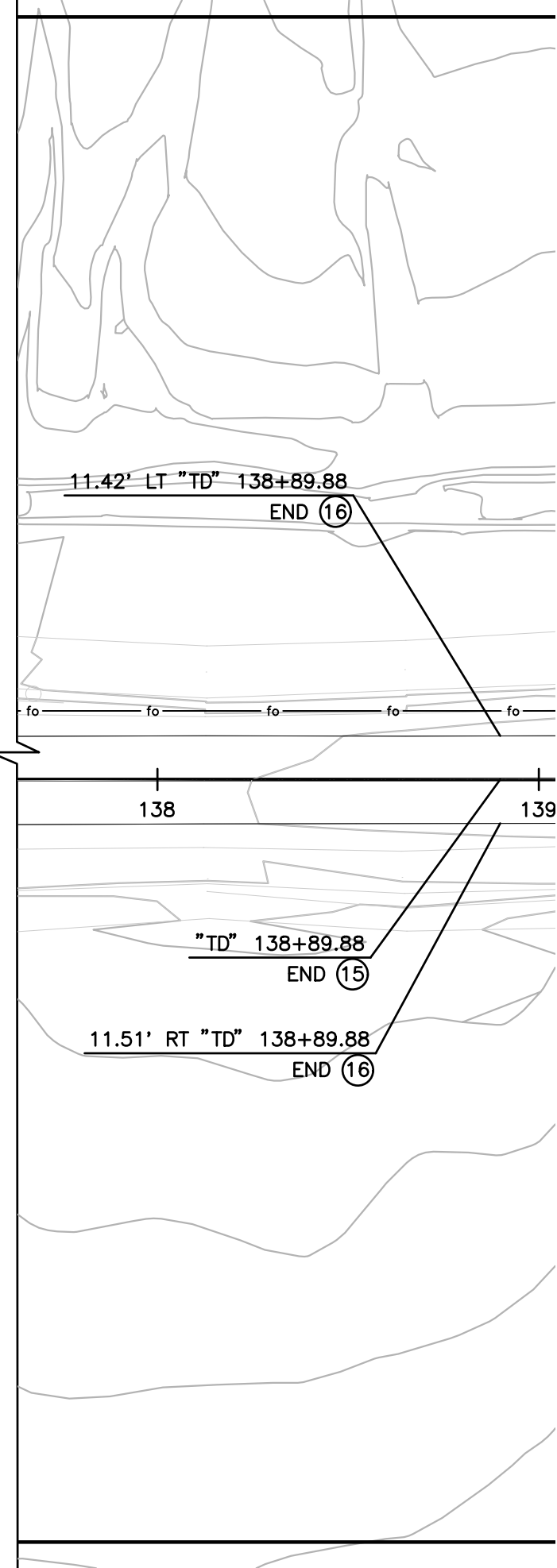
FILE NO. 586600-120, 586600-110, AND 586600-100

NOTES:
1. SEE CONSTRUCTION AREA SIGNS FOR
TEMPORARY TRAFFIC CONTROL GENERAL NOTES.

- LEGEND:
- ROADWAY EXCAVATION
 - COLD PLANE OVERLAY (HMA)
 - PROPOSED FO
 - EXIST FO
 - GUARDRAIL
 - DITCH FLOW



- CONSTRUCTION NOTES
- 14 ROADWAY EXCAVATION.
 - 15 REMOVE YELLOW PAINTED TRAFFIC STRIPE (HAZARDOUS WASTE).
 - 16 REMOVE PAINTED TRAFFIC STRIPE.
 - 17 REMOVE GUARDRAIL.
 - 19 REMOVE BRIDGE.
 - 20 CONTRACTOR SHALL VERIFY DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION, CALL 811.



RV-7

PREPARED BY:

DOKKEN
ENGINEERING

110 BLUE RAINE ROAD SUITE 200, FOLSOM, CA 916-858-0642

MATTHEW ATKINSON, PROJECT ENGINEER

12/16/24
DATE

MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		

FIELD CHANGES



SAN BERNARDINO COUNTY
DEPARTMENT OF PUBLIC WORKS

DESIGNED BY: DH	DRAWN BY: DH	CHECKED BY: MA	RECOMMENDED BY: Chris Nguyen, P.E. TRANSPORTATION DESIGN ENGINEERING MANAGER 1/14/2025 DATE
APPROVED BY: Mervat R. Mikhail, P.E. DEPUTY DIRECTOR 1/16/2025 DATE			

BRIDGE REPLACEMENT ON
NATIONAL TRAILS HIGHWAY
AT 10 BRIDGES
REMOVAL PLAN
TERRA DITCH

J.L. REF. J.L. 11802	W.O. NO. H14914	PLAN SCALE 1"=40'	SHT. NO. 24	TOT. SHT'S. 240
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FILE NO. 586600-120,
586600-110, AND 586600-100

FILE NO. 586600-120, 586600-110, AND 586600-100

NOTES:

1. SEE CONSTRUCTION AREA SIGNS FOR
TEMPORARY TRAFFIC CONTROL GENERAL NOTES.

LEGEND:

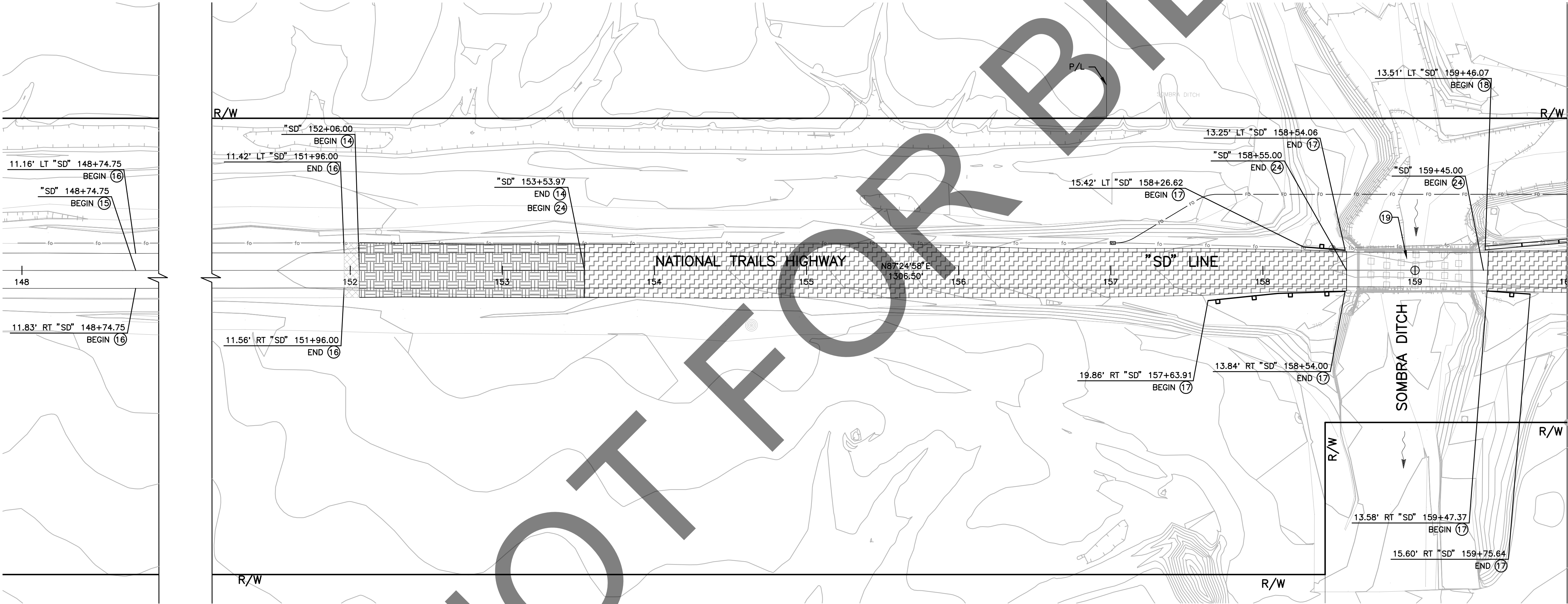
- ROADWAY EXCAVATION
- PULVERIZE AC SURFACING
- COLD PLANE OVERLAY (HMA)
- PROPOSED FO
- EXIST FO
- GUARDRAIL
- DITCH FLOW



CONSTRUCTION NOTES

- 14 ROADWAY EXCAVATION
- 15 REMOVE YELLOW PAINTED TRAFFIC STRIPE (HAZARDOUS WASTE).
- 16 REMOVE PAINTED TRAFFIC STRIPE.
- 17 REMOVE GUARDRAIL.
- 18 REMOVE RAILING (K-RAIL).
- 19 REMOVE BRIDGE.
- 20 CONTRACTOR SHALL VERIFY DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION, CALL 811.
- 24 PULVERIZE SURFACE TO A MINIMUM DEPTH OF 6" OR TO THE BOTTOM OF THE IMPERMEABLE UNDERLYING BASE.

FILE NO. 586600-120, 586600-110, AND 586600-100



RV-8

PREPARED BY:

DOKKEN
ENGINEERING
110 BLUE RAVINE ROAD SUITE 200, FOLSOM, CA 916-858-0642
MATTHEW ATKINSON, PROJECT ENGINEER
12/16/24
DATE

MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		
FIELD CHANGES			



SAN BERNARDINO COUNTY
DEPARTMENT OF PUBLIC WORKS

DESIGNED BY:	DRAWN BY:	CHECKED BY:	RECOMMENDED BY:
DH	DH	MA	Chris Nguyen, P.E., TRANSPORTATION DESIGN ENGINEERING MANAGER 1/14/2025 DATE
LEI (ROCKY) LI, P.E., SUPERVISING ENGINEER 1/15/2025 DATE			APPROVED BY: Mervat R. Mikhail, P.E., DEPUTY DIRECTOR 1/16/2025 DATE

BRIDGE REPLACEMENT ON
NATIONAL TRAILS HIGHWAY
AT 10 BRIDGES
REMOVAL PLAN
SOMBRA DITCH

J.L. REF.	W.O. NO.	PLAN SCALE	SHT. NO.	TOT. SHT'S.
J.L. 11799	H14911	1"=40'	25	240

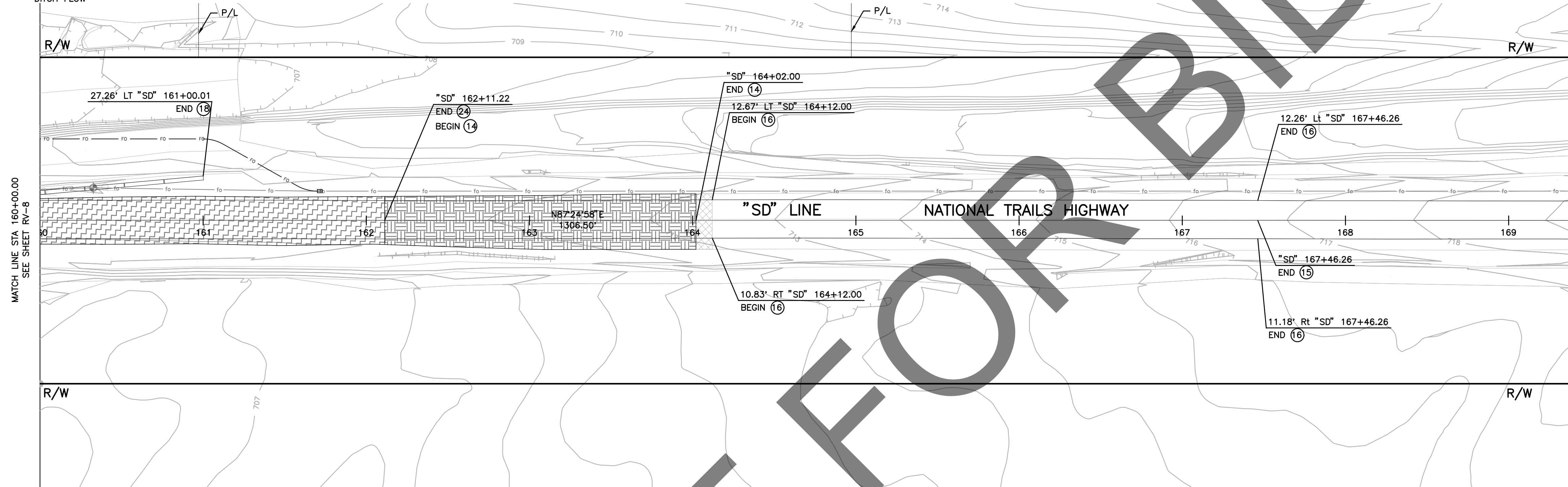
FILE NO. 586600-120,
586600-110, AND 586600-100

NOTES:

1. SEE CONSTRUCTION AREA SIGNS FOR
TEMPORARY TRAFFIC CONTROL GENERAL NOTES.

LEGEND:

- ROADWAY EXCAVATION
- PULVERIZE AC SURFACING
- COLD PLANE OVERLAY (HMA)
- PROPOSED FO
- EXIST FO
- GUARDRAIL
- DITCH FLOW



- CONSTRUCTION NOTES
- 14 ROADWAY EXCAVATION
- 15 REMOVE YELLOW PAINTED TRAFFIC STRIPE (HAZARDOUS WASTE).
- 16 REMOVE PAINTED TRAFFIC STRIPE.
- 18 REMOVE RAILING (K-RAIL).
- 19 REMOVE BRIDGE.
- 20 CONTRACTOR SHALL VERIFY DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION, CALL 811.
- 24 PULVERIZE SURFACE TO A MINIMUM DEPTH OF 6" OR TO THE BOTTOM OF THE IMPERMEABLE UNDERLYING BASE.

RV-9

PREPARED BY:

DOKKEN
ENGINEERING
110 BLUE RAINE ROAD SUITE 200, FOLSOM CA, 916-858-0642
MATTHEW ATKINSON, PROJECT ENGINEER
12/18/24
DATE

MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		
FIELD CHANGES			



SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS			
DESIGNED BY: DH	DRAWN BY: DH	CHECKED BY: MA	RECOMMENDED BY: 1/14/2025 CHRIS NGUYEN, P.E. TRANSPORTATION DESIGN ENGINEERING MANAGER
1/15/2025 LEI (ROCKY) LI, P.E. SUPERVISING ENGINEER	DATE	1/16/2025 MERVAT R. MIKHAIL, P.E. DEPUTY DIRECTOR	DATE

BRIDGE REPLACEMENT ON NATIONAL TRAILS HIGHWAY AT 10 BRIDGES REMOVAL PLAN SOMBRA DITCH			
J.L. REF. J.L. 11799	W.O. NO. H14911	PLAN SCALE 1"=40'	SHT. NO. 26
		TOT. SHT'S. 240	

FILE NO. 586600-120,
586600-110, AND 586600-100

FILE NO. 586600-120, 586600-110, AND 586600-100

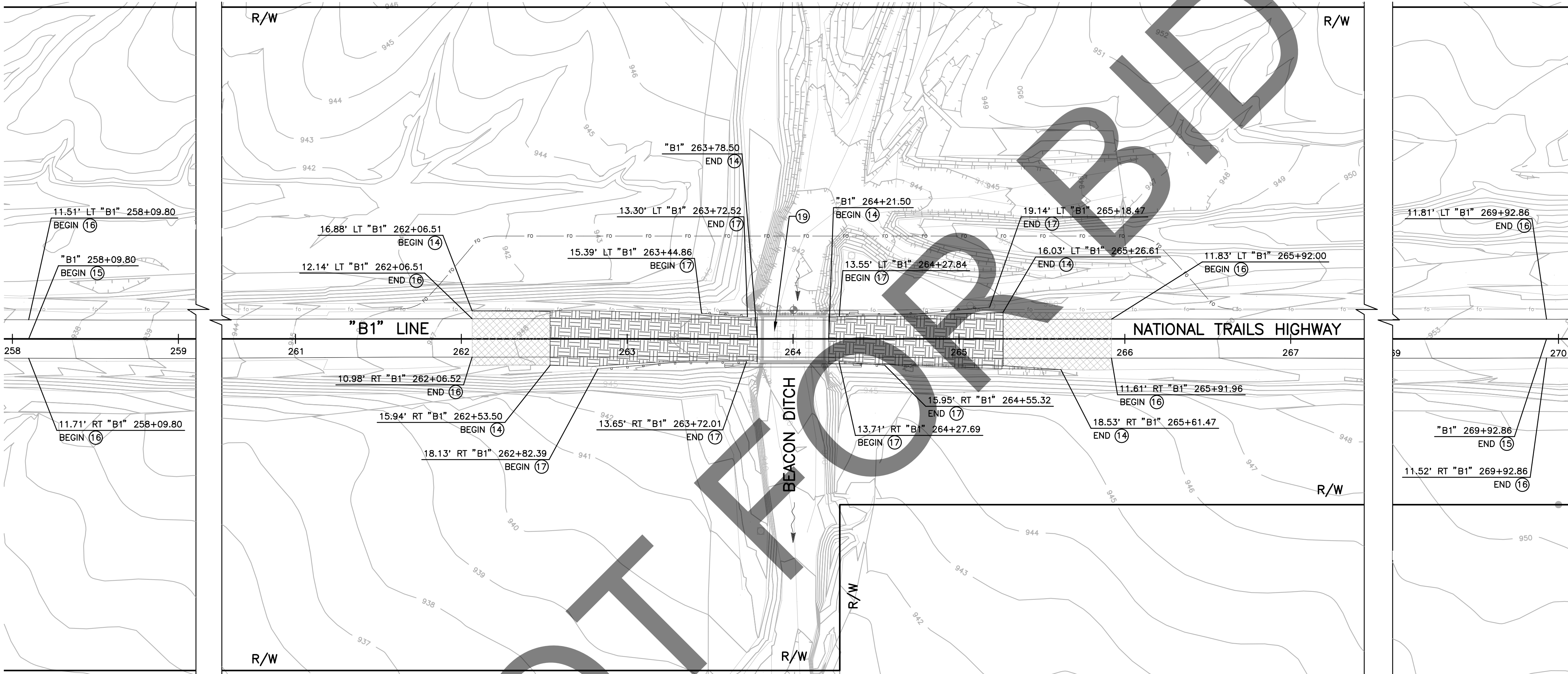
NOTE:
1. SEE CONSTRUCTION AREA SIGNS FOR
TEMPORARY TRAFFIC CONTROL GENERAL NOTES.

LEGEND:

- ROADWAY EXCAVATION
- COLD PLANE OVERLAY (HMA)
- PROPOSED FO
- EXIST FO
- GUARDRAIL
- DITCH FLOW

CONSTRUCTION NOTES

- 14 ROADWAY EXCAVATION.
- 15 REMOVE YELLOW PAINTED TRAFFIC STRIPE (HAZARDOUS WASTE).
- 16 REMOVE PAINTED TRAFFIC STRIPE.
- 17 REMOVE GUARDRAIL.
- 19 REMOVE BRIDGE.
- 20 CONTRACTOR SHALL VERIFY DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION, CALL 811.

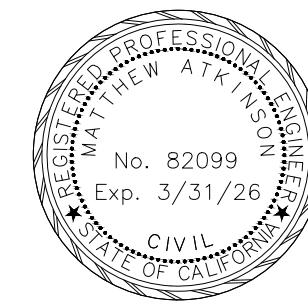


PREPARED BY:

DOKKEN
ENGINEERING
110 BLUE RAINE ROAD SUITE 200, FOLSOM, CA 95660-110
MATTHEW ATKINSON, PROJECT ENGINEER
12/18/24
DATE

MARK CHANGES NO CHANGES RESIDENT ENGINEER DATE

FIELD CHANGES



SAN BERNARDINO COUNTY
DEPARTMENT OF PUBLIC WORKS

DESIGNED BY: DH DRAWN BY: DH CHECKED BY: MA RECOMMENDED BY: CHRIS NGUYEN, P.E., TRANSPORTATION DESIGN ENGINEERING MANAGER 1/14/2025 DATE

APPROVED BY: MERVAT R. MIKHAIL, P.E., DEPUTY DIRECTOR 1/16/2025 DATE

LEI (ROCKY) LI, P.E., SUPERVISING ENGINEER

BRIDGE REPLACEMENT ON
NATIONAL TRAILS HIGHWAY
AT 10 BRIDGES
REMOVAL PLAN
BEACON DITCH

J.L. REF. J.L. 11801 W.O. NO. H14913 PLAN SCALE 1"=40' SHT. NO. 27 TOT. SHT'S. 240

FILE NO. 586600-120,
586600-110, AND 586600-100

FILE NO. 586600-120, 586600-110, AND 586600-100

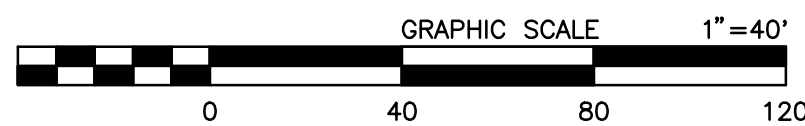
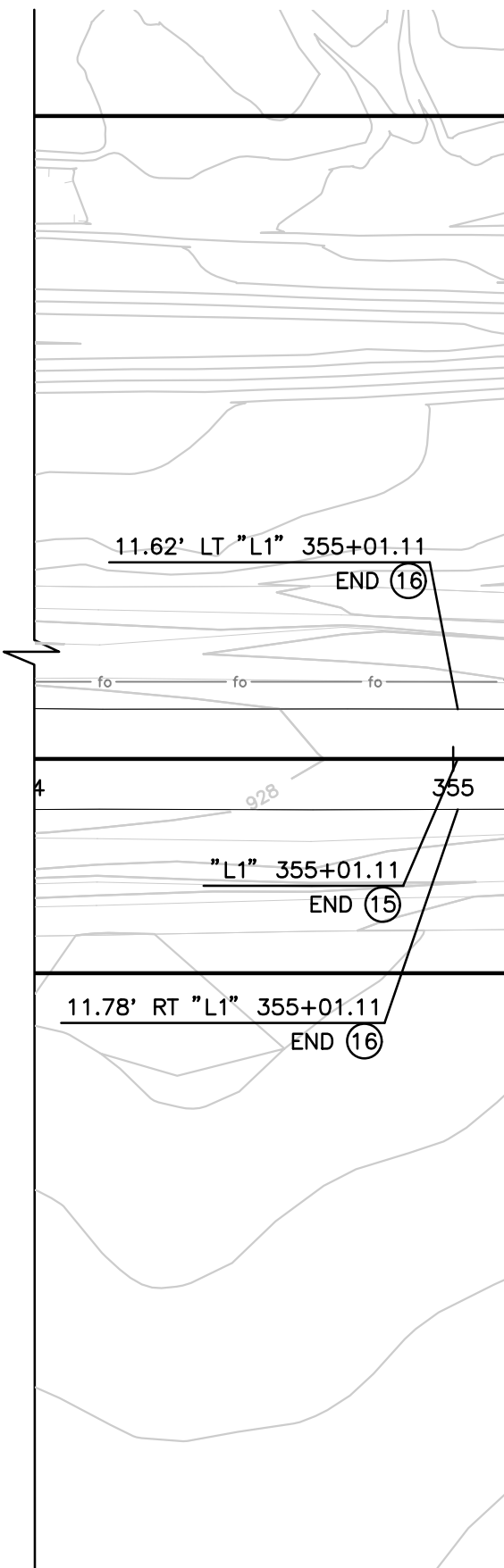
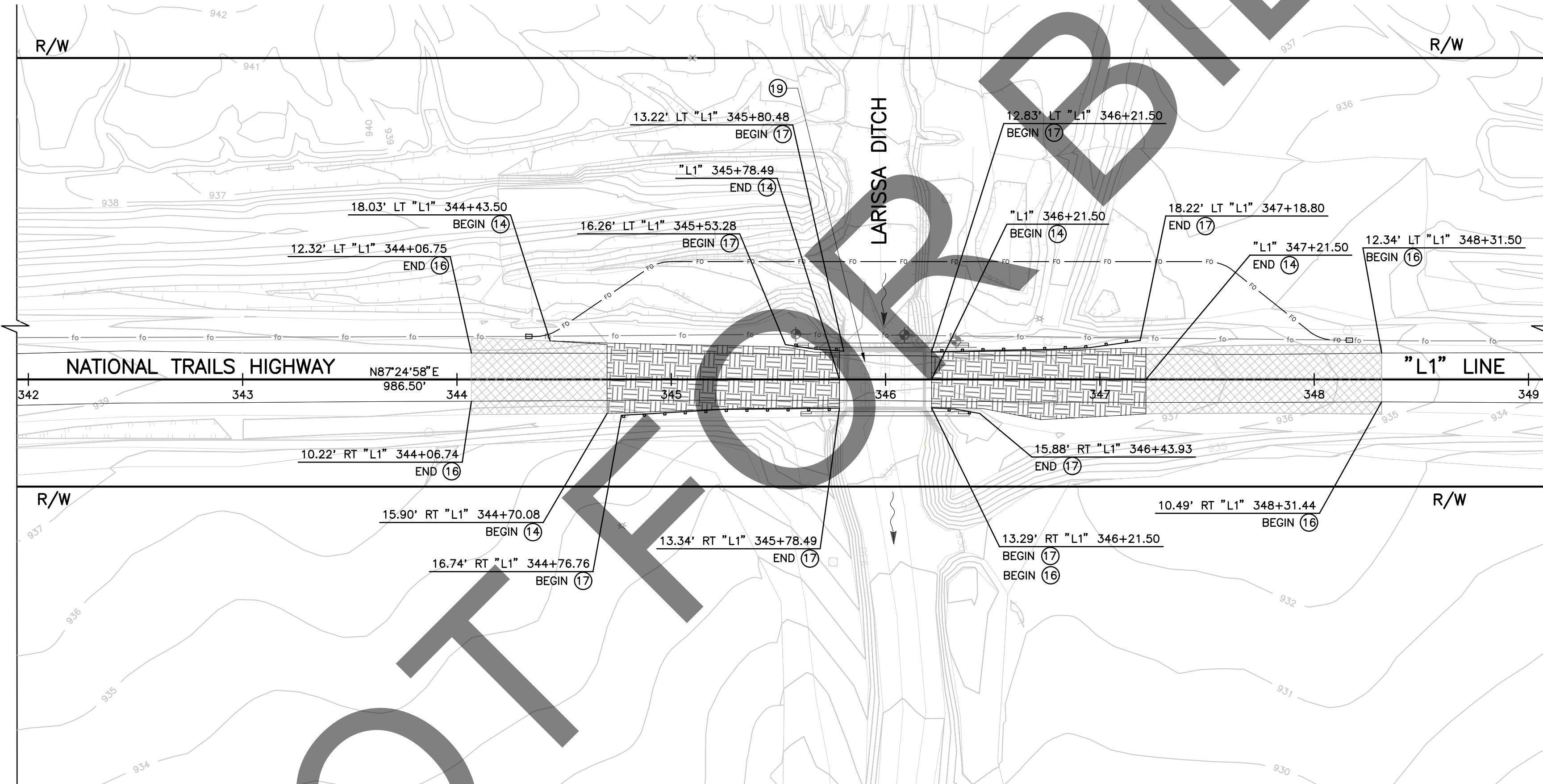
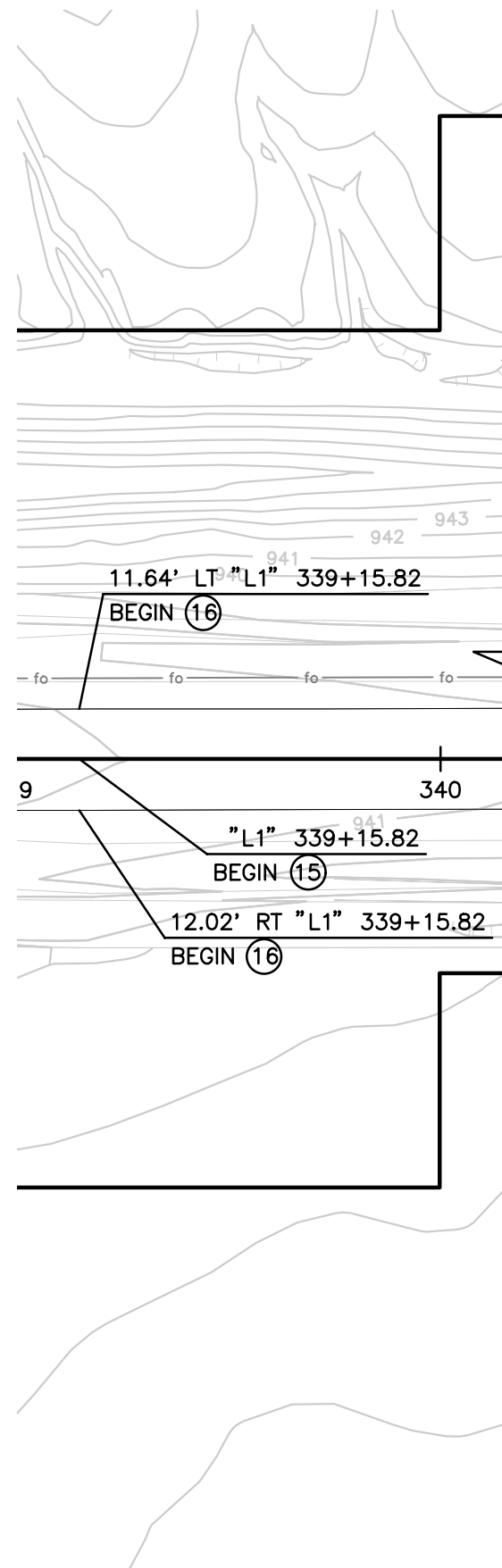
NOTE:
1. SEE CONSTRUCTION AREA SIGNS FOR
TEMPORARY TRAFFIC CONTROL GENERAL NOTES.

LEGEND:

- ROADWAY EXCAVATION
- COLD PLANE OVERLAY (HMA)
- PROPOSED FO
- EXIST FO
- GUARDRAIL
- DITCH FLOW

CONSTRUCTION NOTES

- 14 ROADWAY EXCAVATION.
- 15 REMOVE YELLOW PAINTED TRAFFIC STRIPE (HAZARDOUS WASTE).
- 16 REMOVE PAINTED TRAFFIC STRIPE.
- 17 REMOVE GUARDRAIL.
- 19 REMOVE BRIDGE.
- 20 CONTRACTOR SHALL VERIFY DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION, CALL 811.



PREPARED BY:

DOKKEN
ENGINEERING
110 BLUE RAINE ROAD SUITE 200, FOLSOM CA, 916-858-0642
MATTHEW ATKINSON, PROJECT ENGINEER
12/16/24
DATE

MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		

FIELD CHANGES



SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS			
DESIGNED BY: DH	DRAWN BY: DH	CHECKED BY: MA	RECOMMENDED BY: 1/14/2025 DATE CHRIS NGUYEN, P.E. TRANSPORTATION DESIGN ENGINEERING MANAGER
APPROVED BY: 1/15/2025 DATE LEI (ROCKY) LI, P.E. SUPERVISING ENGINEER	APPROVED BY: 1/16/2025 DATE MERVAT R. MIKHAIL, P.E. DEPUTY DIRECTOR		

BRIDGE REPLACEMENT ON NATIONAL TRAILS HIGHWAY AT 10 BRIDGES REMOVAL PLAN LARISSA DITCH			
J.L. REF. J.L. 11804	W.O. NO. H14916	PLAN SCALE 1"=40'	SHT. NO. 28
		TOT. SHT'S. 240	

RV-11

FILE NO. 586600-120,
586600-110, AND 586600-100

FILE NO. 586600-120, 586600-110, AND 586600-100