

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.



SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS

TRANSPORTATION

PLANS FOR CONSTRUCTION ON

DOLA DITCH AND LANZIT DITCH BRIDGE REPLACEMENT

LIMITS

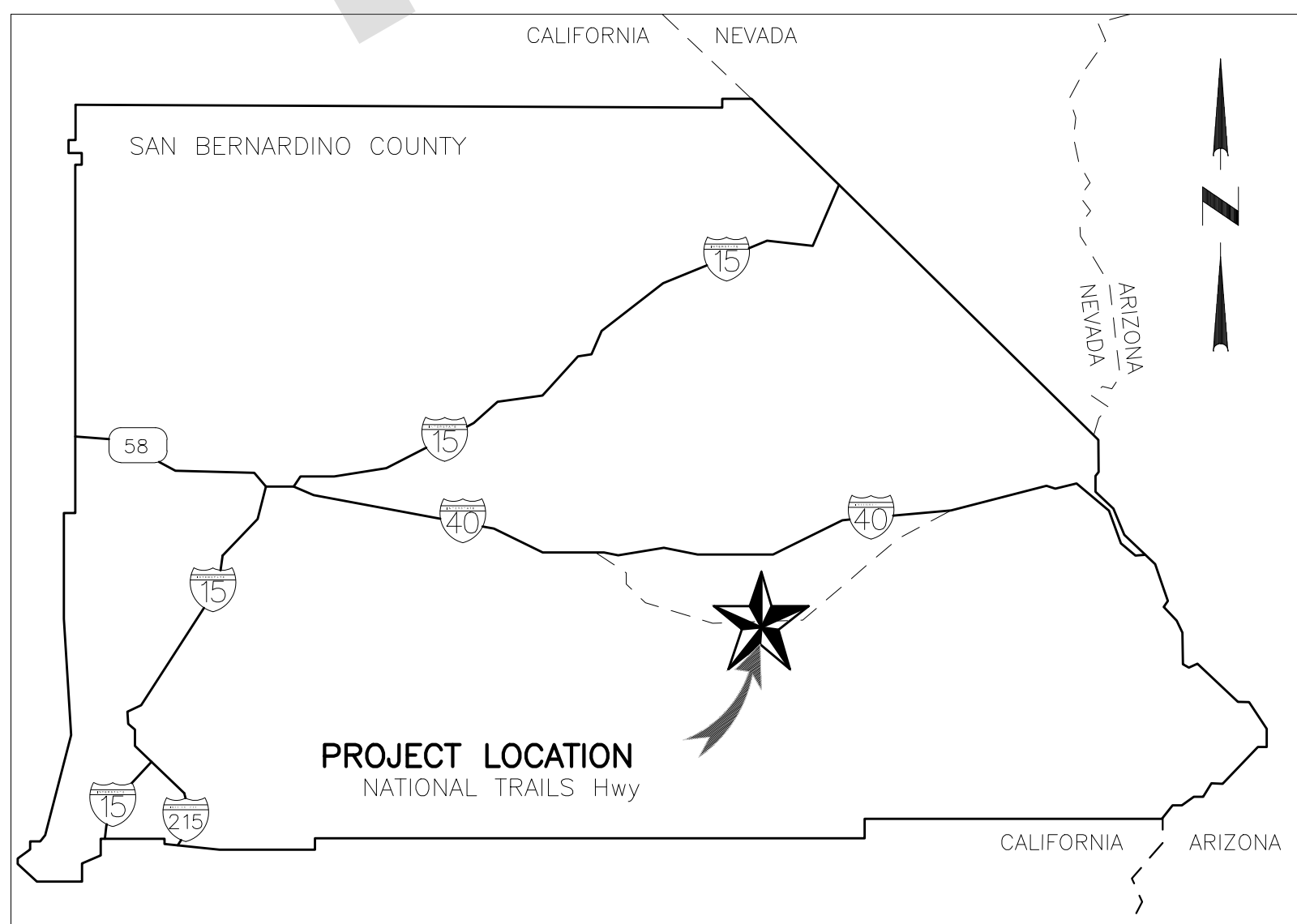
ON NATIONAL TRAILS HIGHWAY

FROM 2.0 MILES EAST OF KELBAKER RD TO 2.8 MILES EAST OF KELBAKER RD

WORK ORDER NO. H15220

ROAD NO. 586600-120

LENGTH = 0.8 MILES



LOCATION MAP

NOT TO SCALE

SAN BERNARDINO COUNTY

APPROVED BY: 
NOEL CASTILLO, P.E., DIRECTOR OF PUBLIC WORKS R.C.E. 78044

6/6/24
DATE

T-1

MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		
FIELD CHANGES		SHT. NO.	TOT. SHT'S.
		1	54

MARK	REVISIONS	APPR.	DATE
MARK	REVISIONS	APPR.	DATE
MARK	REVISIONS	APPR.	DATE

INDEX OF SHEETS:

Table with 2 columns: Sheet Number and Description. Includes Title Sheet, Index Sheet, Typical Sections, Plan and Profile, Removal Plan, Construction Details, Contour Grading, Erosion Control Plan, Signing and Striping/Traffic Handling Plan, Structure Plans, and Cross Sections.

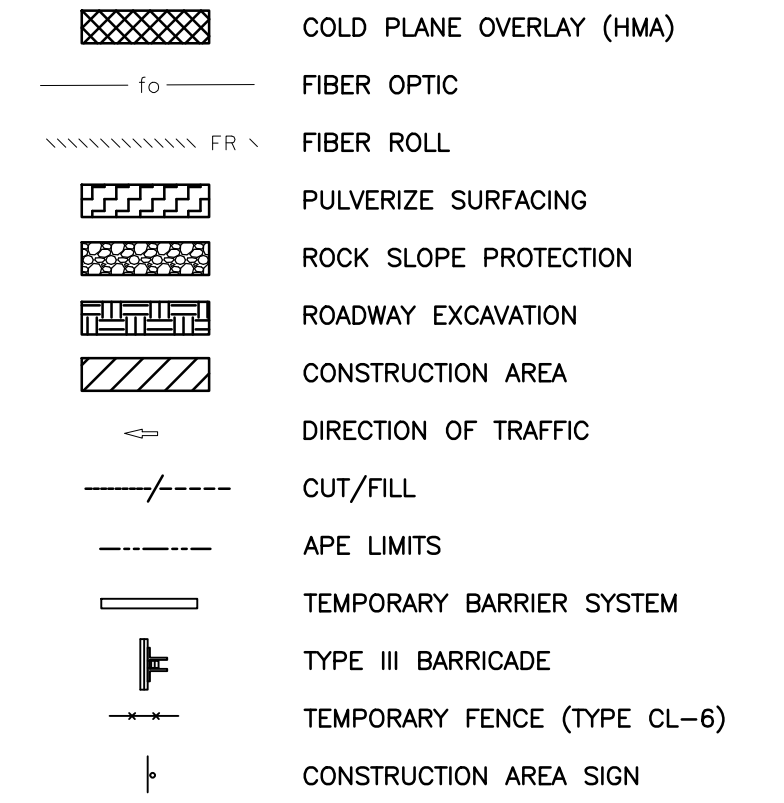
ABBREVIATIONS LEGEND:

List of abbreviations for construction and utility terms, including Aggregate Base, Abutment, Alternative In-Line Terminal System, Area of Potential Effects, etc.

ABBREVIATIONS LEGEND:

List of abbreviations for fill, finished grade, hot mix asphalt, hinge point, maximum, etc.

CONSTRUCTION/UTILITY LEGEND



STREET IMPROVEMENT GENERAL NOTES

- 12 numbered notes detailing construction requirements, including compliance with standards, bench mark data, permit requirements, compaction tests, and safety measures.

TO BE SUPPLEMENTED BY THE FOLLOWING CALTRANS STANDARD PLANS 2023.

Table mapping sheet numbers to Caltrans standard plan numbers (e.g., A77L1 to A77N5).

TO BE SUPPLEMENTED BY THE LATEST CALIFORNIA MUTCD STD.

FIGURE 3F-101(CA) TYPE E FIGURE 2A-2(CA) FIGURE 2C-13(CA)

GENERAL NOTES

- 6 numbered general notes regarding utility facilities, stationing, dimensions, pavement, transitions, asphalt concrete, and vegetation protection.

BASIS OF BEARINGS

CCS83 ZONE 5, NAD-83 (1992.88) COORDINATES AND DISTANCES ARE GRID COMBINATION FACTOR = 0.9998439119

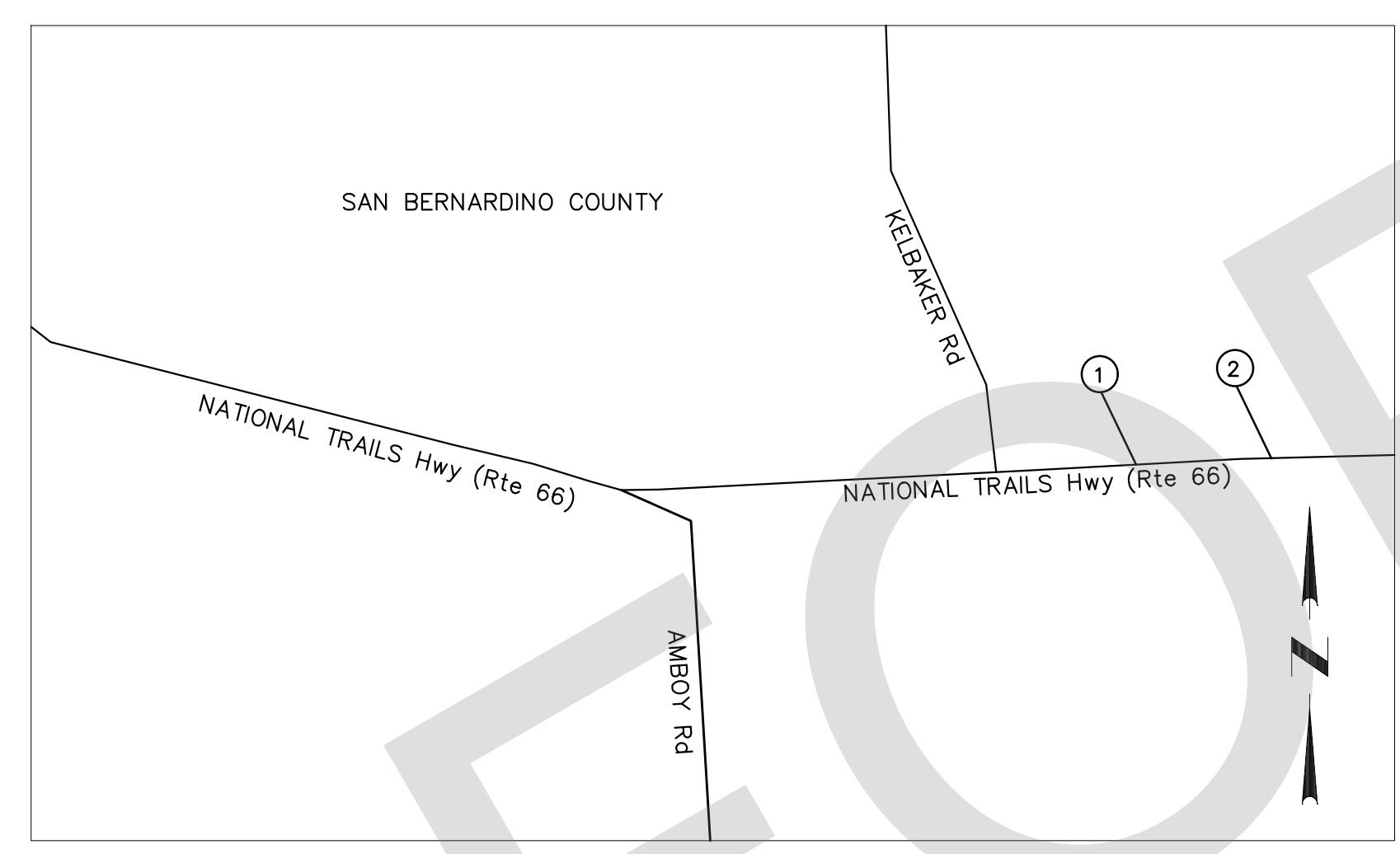
BENCH MARK:

FOUND 3.5" NGS BRASS DISC IN 10"x10" CONC MNMT STAMPED "Z1308-1978 NATIONAL GEODETIC SURVEY" PER NGS DATASHEET PID# EU0704. NAVD ELEVATION = 1099.53'

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...

CONTRACTOR AGREES THAT HE/SHE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT...



CONSTRUCTION NOTES

- 20 numbered construction notes detailing asphalt placement, guardrail installation, erosion control, and traffic control measures.

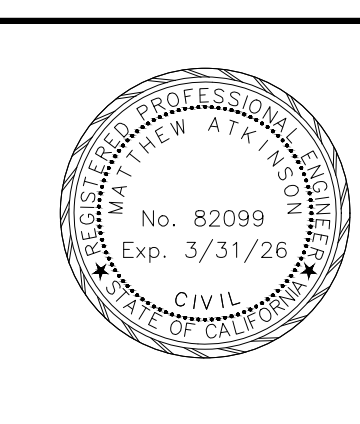
TRAFFIC CONSTRUCTION NOTES

- 12 numbered traffic construction notes detailing paint traffic stripes, object markers, barricades, and temporary fencing.

T-2

Prepared by: DOKKEN ENGINEERING, Matthew Atkinson, Project Engineer, dated 05/23/24.

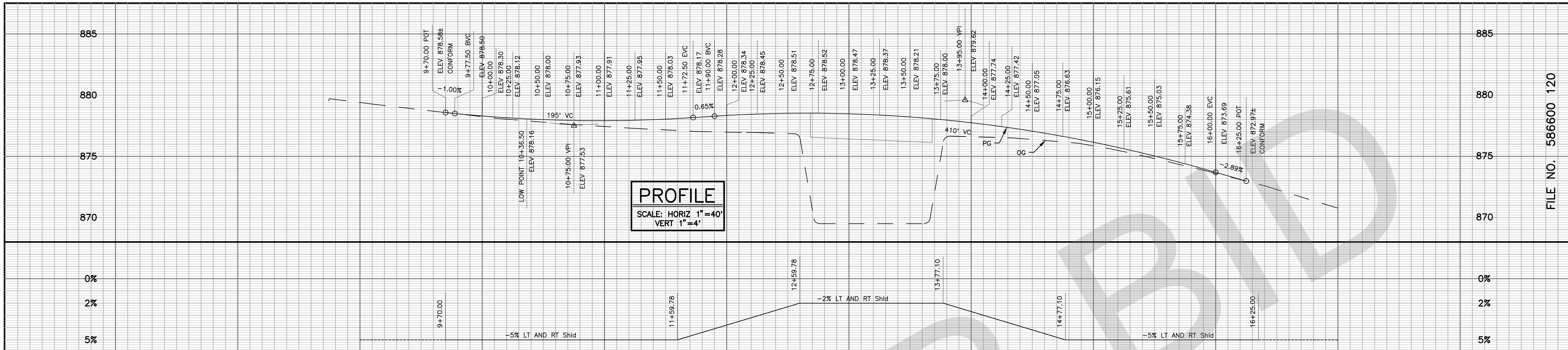
Table for FIELD CHANGES with columns for MARK, CHANGES, RESIDENT ENGINEER, and DATE.



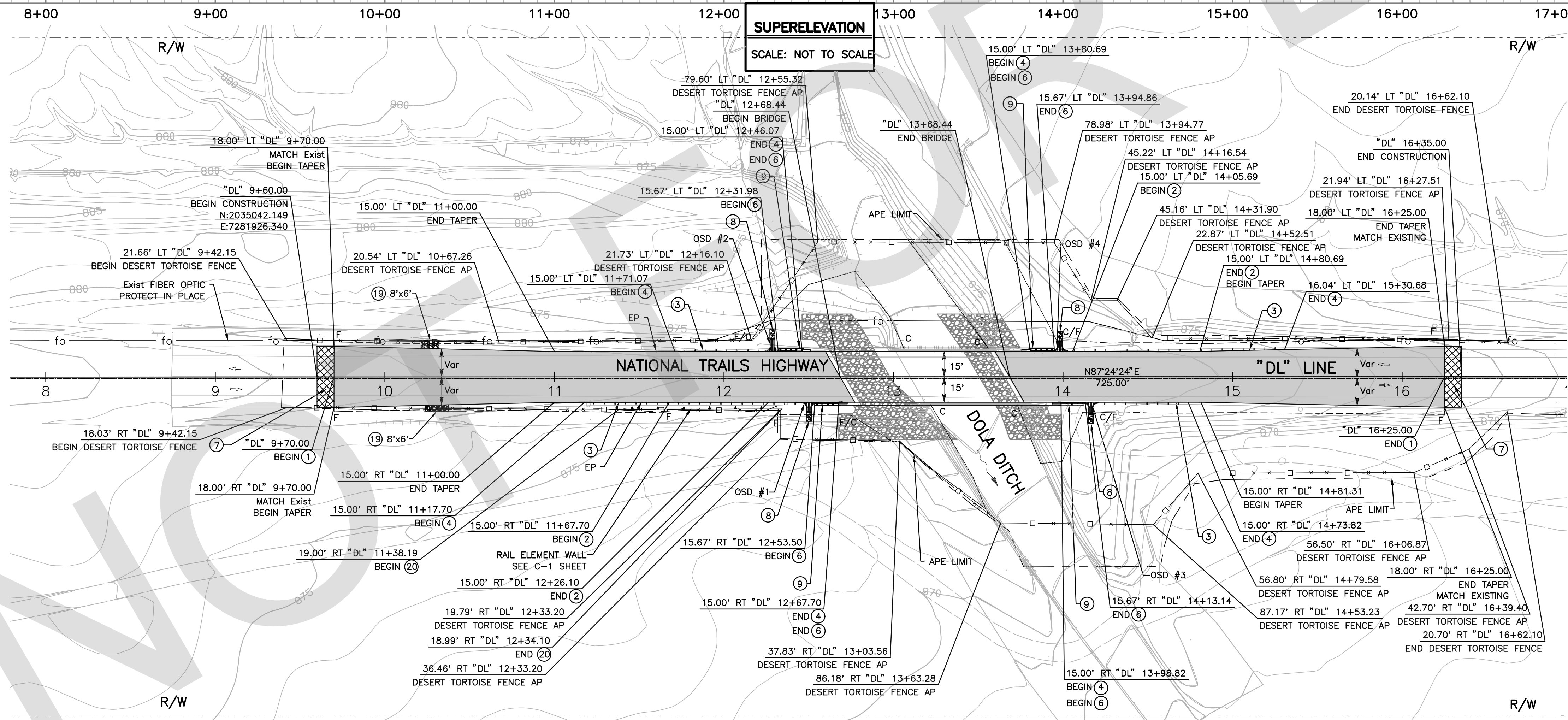
San Bernardino County Department of Public Works. Designated by: Noel Mondragon, P.E., Supervising Engineer, dated 06/05/2024.

DOLA DITCH AND LANZIT DITCH BRIDGE REPLACEMENT. INDEX SHEET. J.L. REF. 12145, W.O. NO. H15220, PLAN SCALE NTS, SHT. NO. 2, TOT. SHT'S. 54.

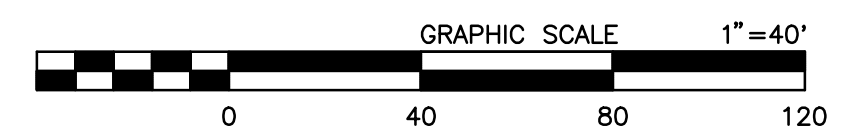
Vertical table for REVISIONS with columns for DATE, APPR., and MARK.



- LEGEND:**
- DIRECTION OF TRAFFIC
 - CUT/FILL
 - APE LIMIT
 - PROPOSED PAVEMENT
 - DESERT TORTOISE FENCE



- CONSTRUCTION NOTES**
- 1 PLACE 0.40" HOT MIXED ASPHALT TYPE A OVER 0.45" CLASS 2 AGGREGATE BASE WITH 2 LAYERS OF TACK COAT IN BETWEEN. WITH OVER-EXCAVATION OF NATIVE, 2.5' FROM FG, 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 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 3'x6" 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.
 - 15 CONTRACTOR SHALL VERIFY DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION, CALL 811.
 - 19 INSTALL RSP (20 LB, CLASS I, METHOD B)
 - 20 PLACE EARTH RETAINING STRUCTURE (GUARD RAILING), SEE SHEET C-1 FOR MORE DETAILS.



PREPARED BY:

DE DOKKEN ENGINEERING

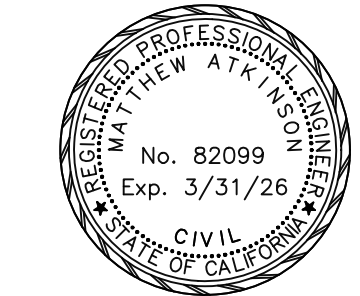
110 BLUE RAINE ROAD SUITE 200, FOLSOM CA, 916-858-0642

05/23/24 DATE

MATTHEW ATKINSON, PROJECT ENGINEER

MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		

FIELD CHANGES



SAN BERNARDINO COUNTY
DEPARTMENT OF PUBLIC WORKS

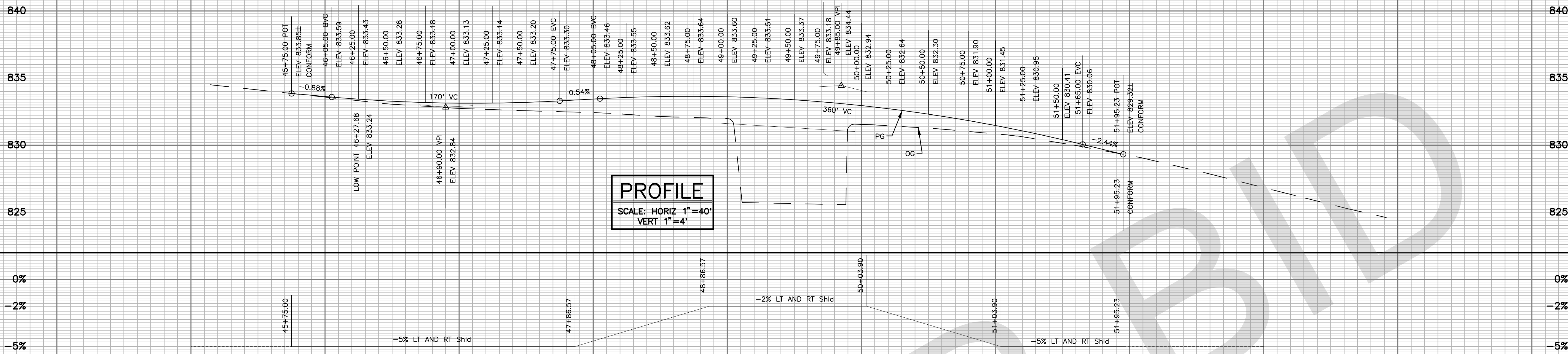
DESIGNED BY: DH	DRAWN BY: DH	CHECKED BY: MA	RECOMMENDED BY: CHRIS NGUYEN, P.E. TRANSPORTATION DESIGN ENGINEERING MANAGER
NOEL MONDRAGON, P.E. SUPERVISING ENGINEER	06/05/2024 DATE	06/05/2024 DATE	06/05/2024 DATE

DOLA DITCH AND LANZIT DITCH BRIDGE REPLACEMENT

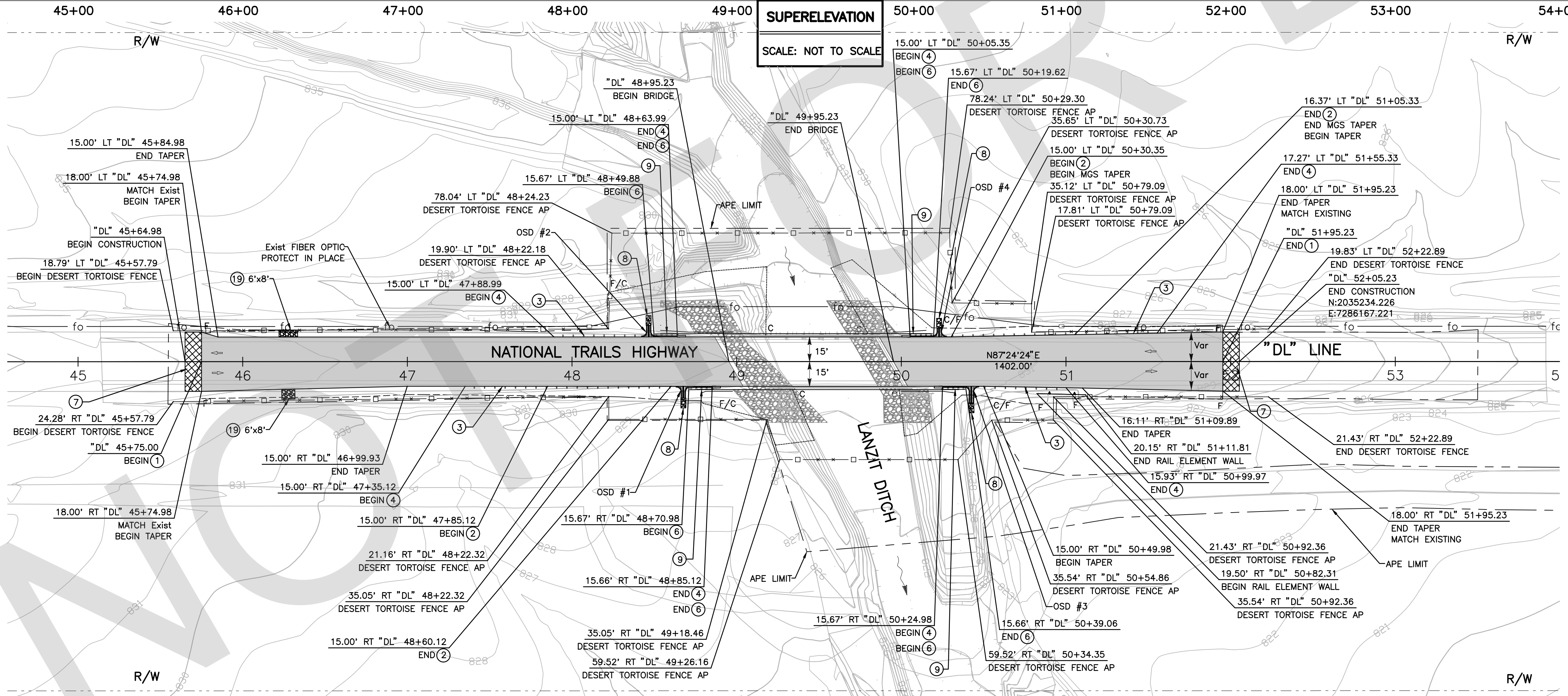
PLAN AND PROFILE
DOLA DITCH

J.L. REF. J.L. 12145	W.O. NO. H15220	PLAN SCALE 1"=40'	SHT. NO. 4	TOT. SHT'S. 54
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L-1



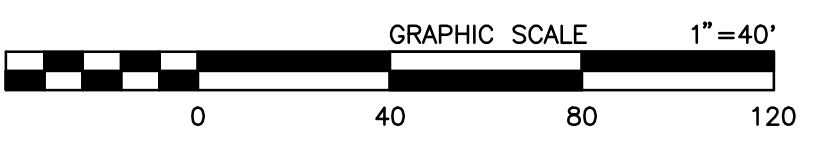
SUPERELEVATION
SCALE: NOT TO SCALE



CONSTRUCTION NOTES

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- PLACE EARTH RETAINING STRUCTURE (GURAD RAILING), SEE SHEET C-1 FOR MORE DETAILS.

- LEGEND:**
- DIRECTION OF TRAFFIC
 - CUT/FILL
 - APE LIMIT
 - PROPOSED PAVEMENT
 - DESERT TORTOISE FENCE



PREPARED BY:

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

05/23/24 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
			06/05/2024 DATE
			APPROVED BY: MERVAT N. MIKHAL, P.E. DEPUTY DIRECTOR
			06/05/2024 DATE



DOLA DITCH AND LANZIT DITCH BRIDGE REPLACEMENT

PLAN AND PROFILE
LANZIT DITCH

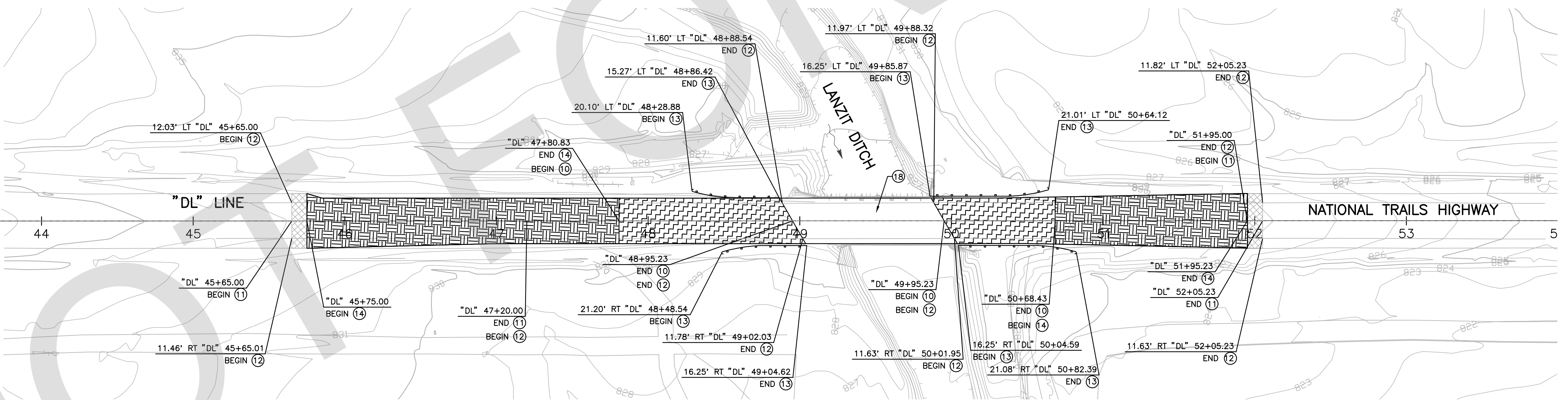
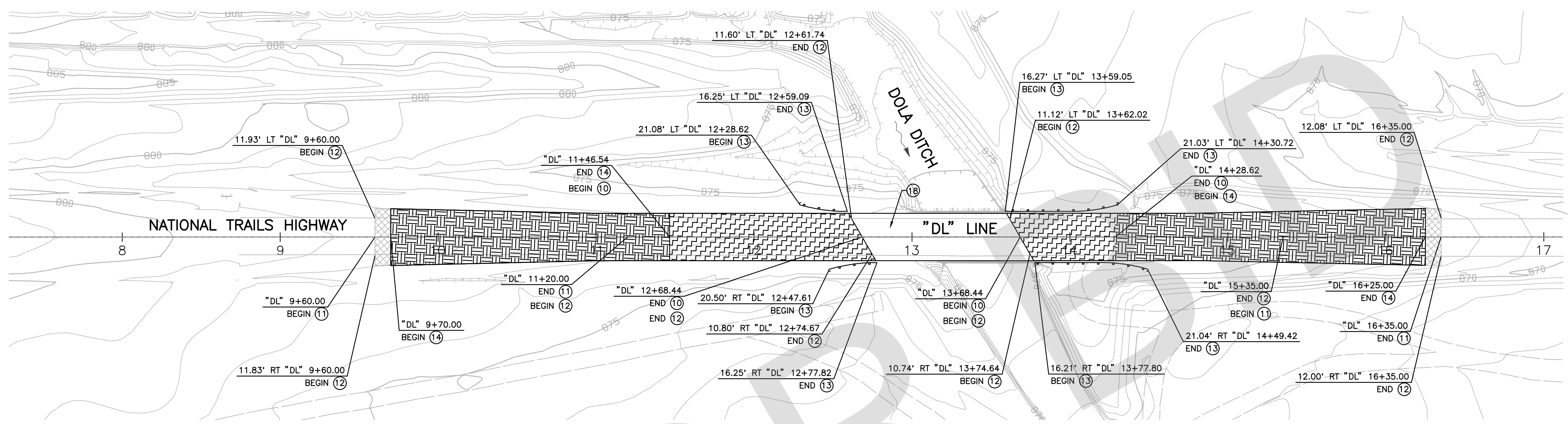
J.L. REF. J.L. 12145	W.O. NO. H15220	PLAN SCALE 1"=40'	SHT. NO. 5	TOT. SHT'S. 54
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L-2

NOTES:
1. SEE DETOUR PLAN FOR TRAFFIC GENERAL NOTES.

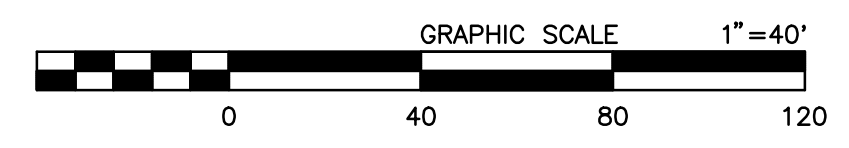
LEGEND:
 PULVERIZE SURFACING
 ROADWAY EXCAVATION

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





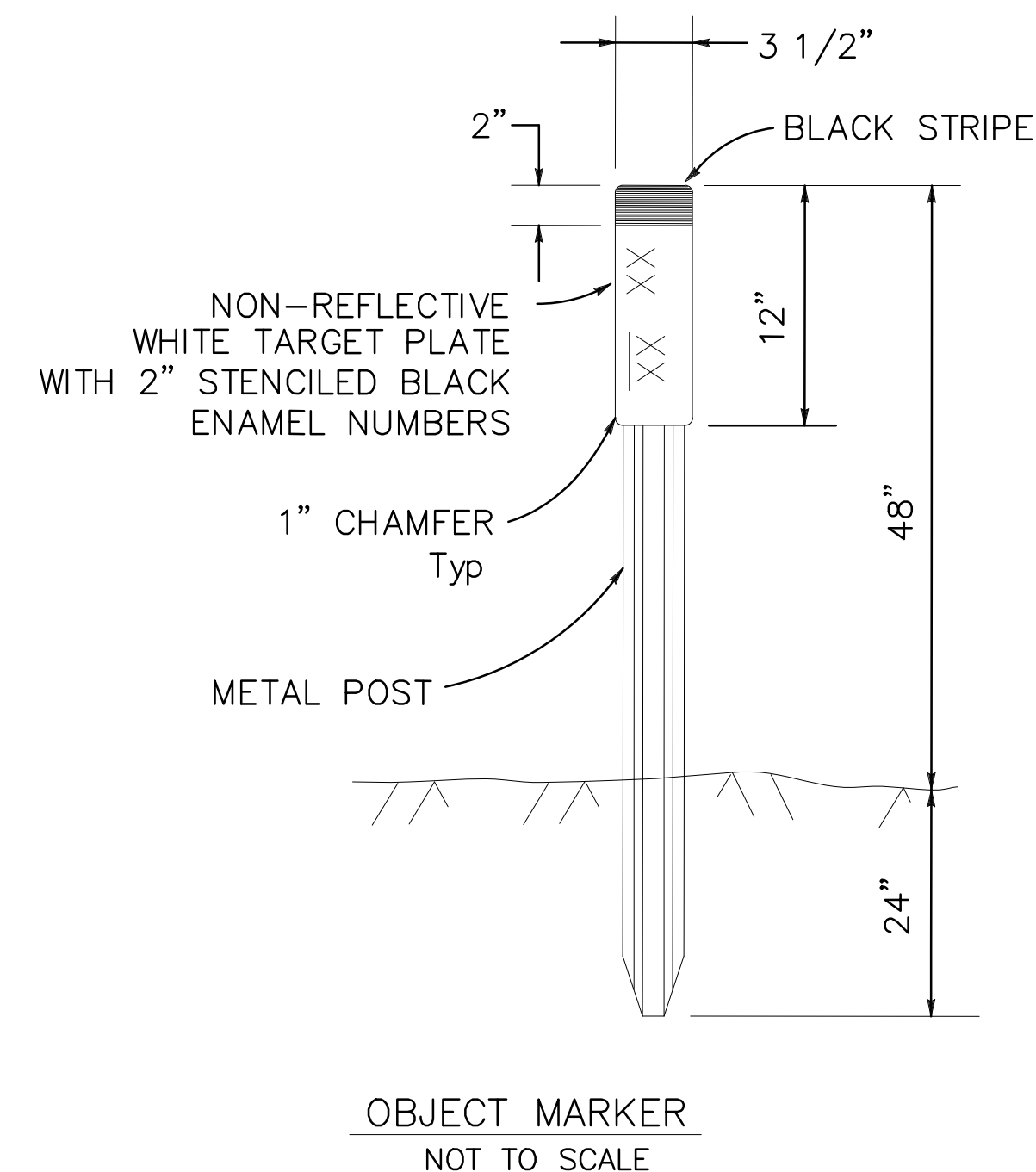
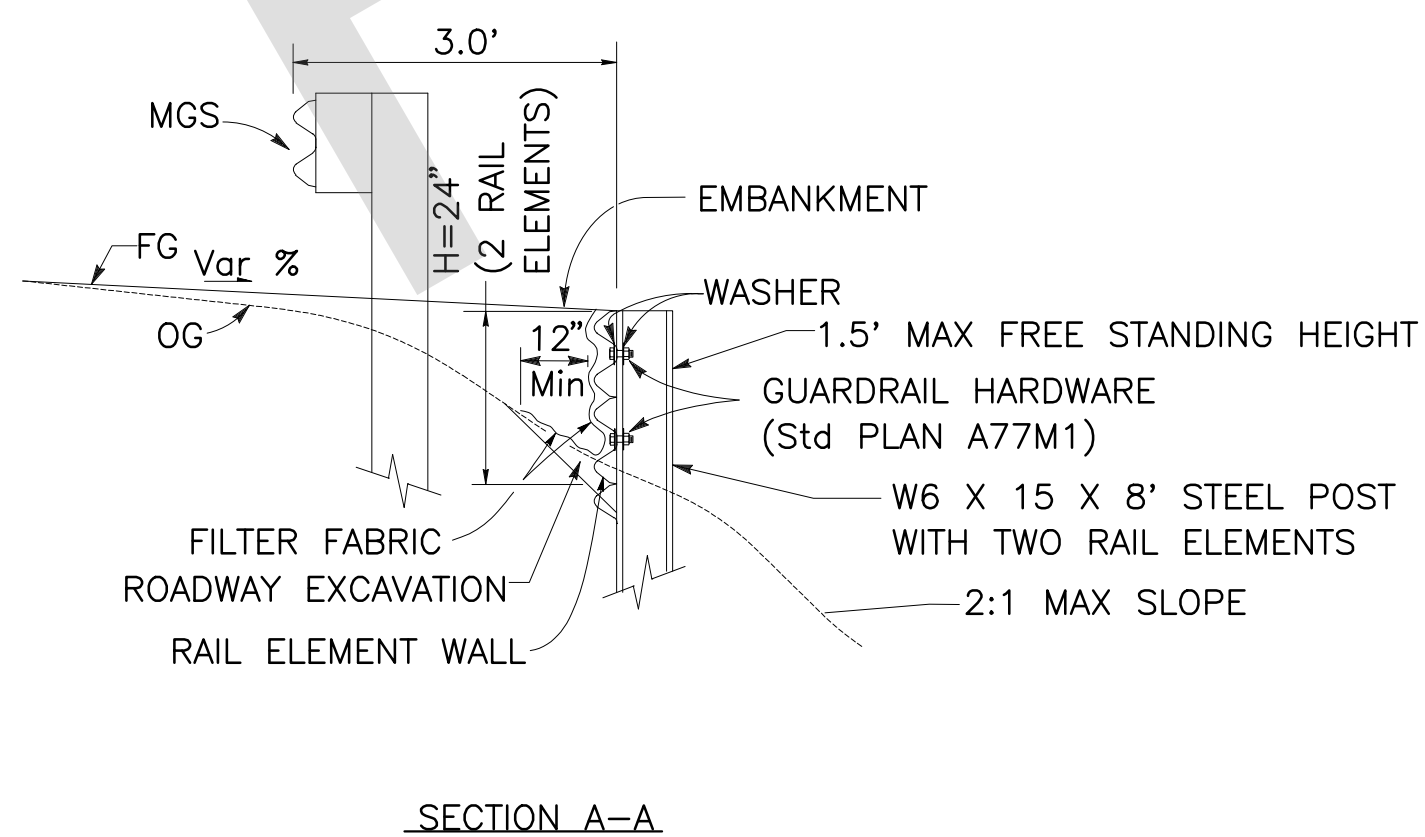
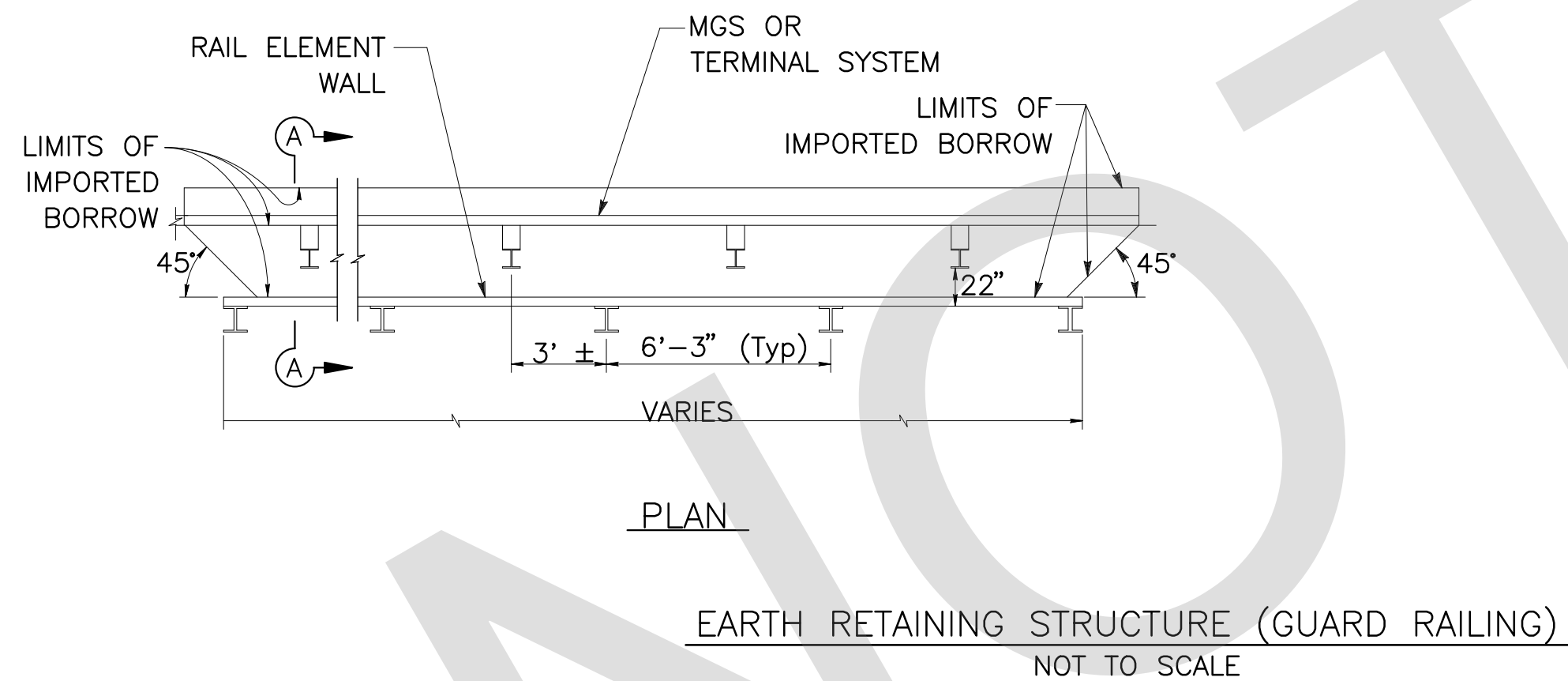
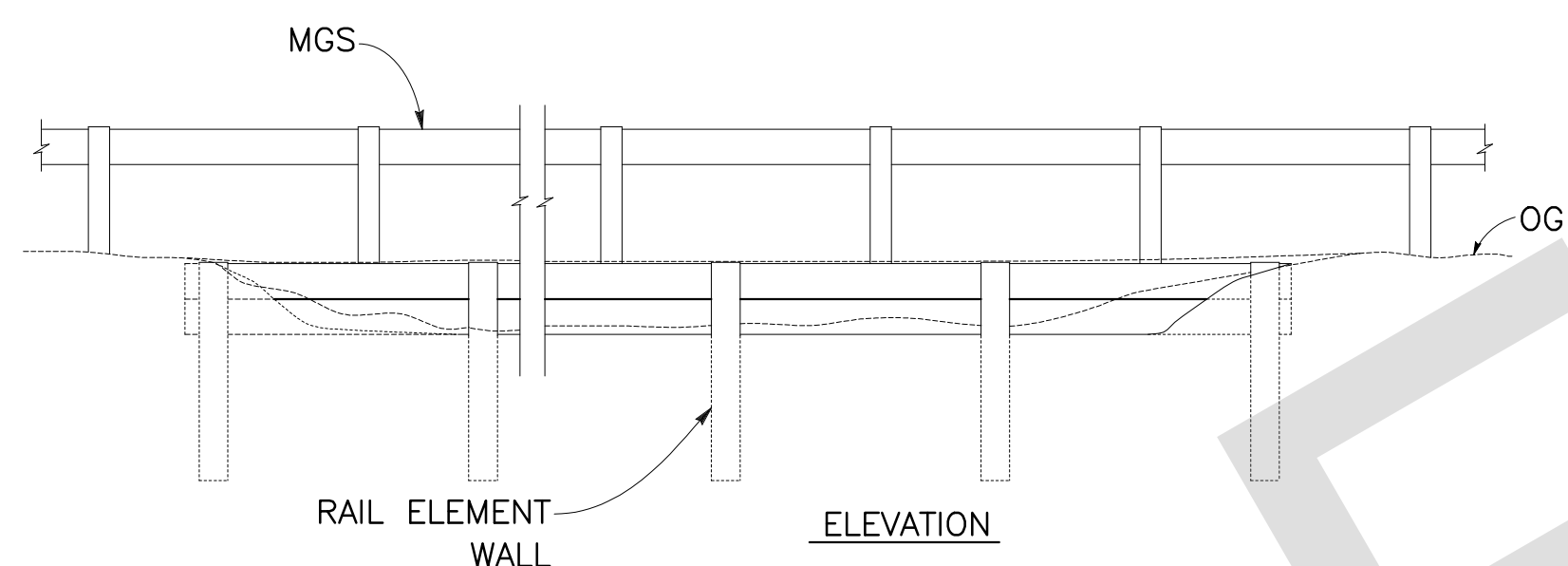
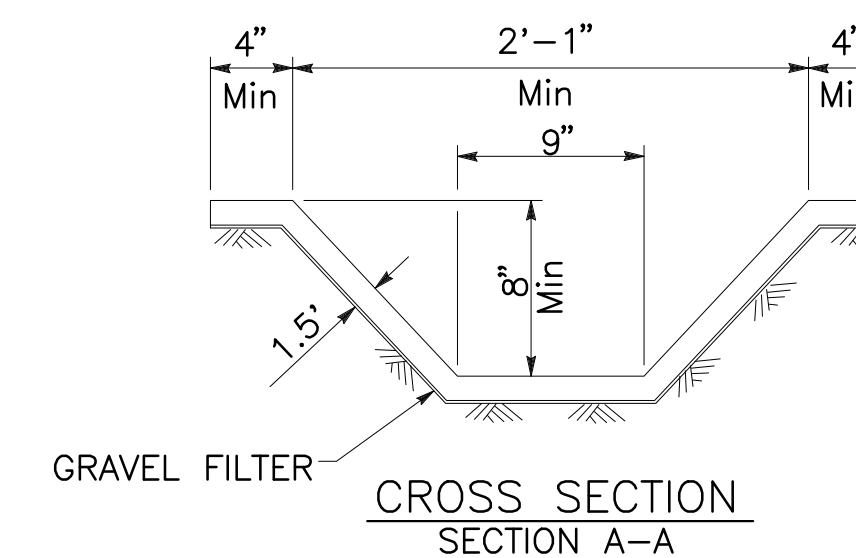
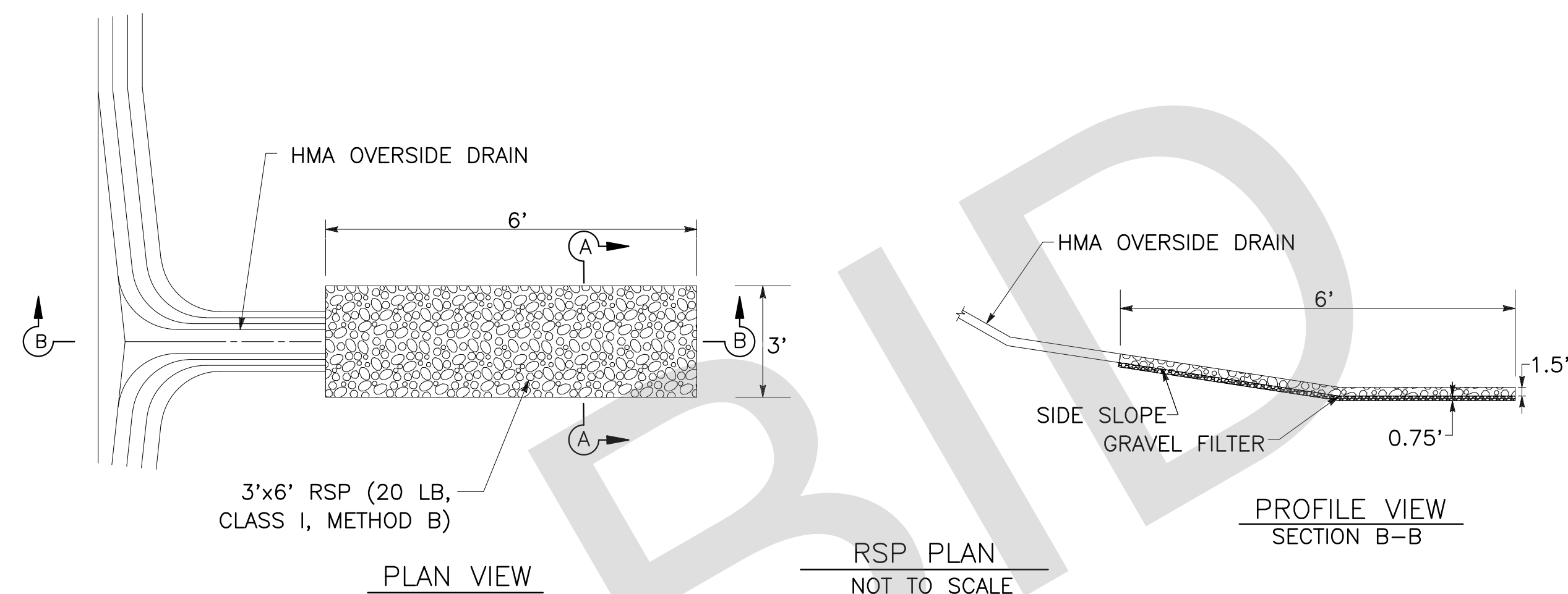
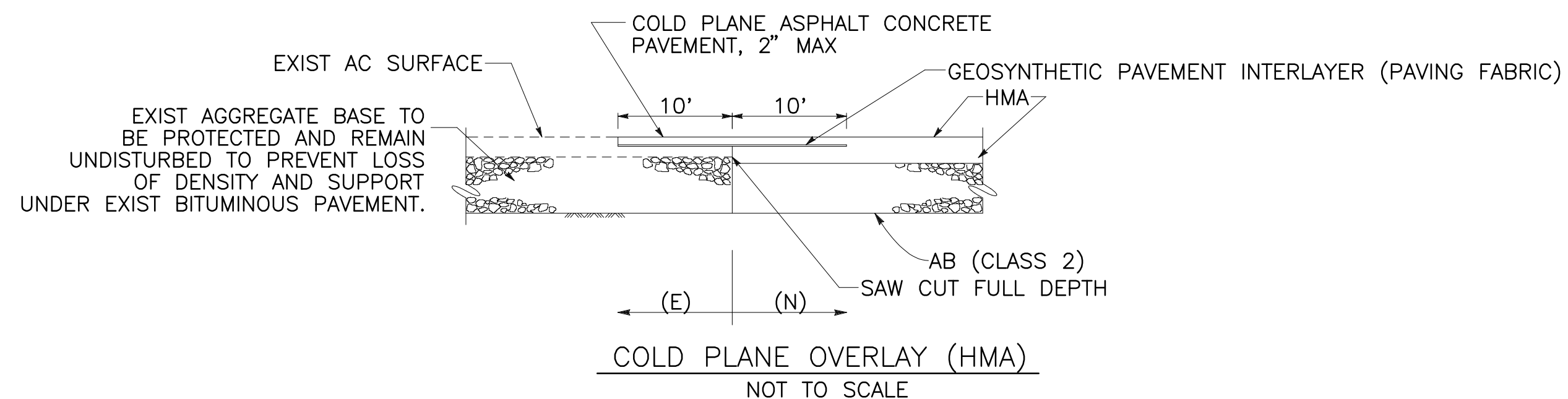
FILE NO. 586600 120

FILE NO. 586600 120

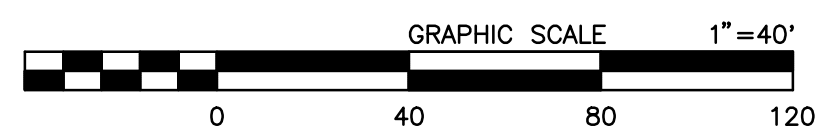


RV-1

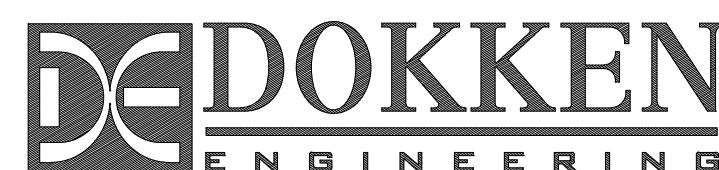
PREPARED BY:  110 BLUE RAVINE ROAD SUITE 200, FOLSOM, CA. 916-858-0642 MATTHEW ATKINSON, PROJECT ENGINEER		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>MARK</th> <th>CHANGES</th> <th>RESIDENT ENGINEER</th> <th>DATE</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>		MARK	CHANGES	RESIDENT ENGINEER	DATE															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 DATE: 06/05/2024 APPROVED BY: NOEL MONDRAGON, P.E. SUPERVISING ENGINEER DATE: 06/05/2024 APPROVED BY: MERVAT N. MIKHAIL, P.E. DEPUTY DIRECTOR DATE: 06/05/2024		DOLA DITCH AND LANZIT DITCH BRIDGE REPLACEMENT REMOVAL PLAN	
MARK	CHANGES	RESIDENT ENGINEER	DATE																						
J.L. REF. J.L. 12145		W.O. NO. H15220		PLAN SCALE 1"=40'		SHT. NO. 6		TOT. SHT'S. 54																	



C-1



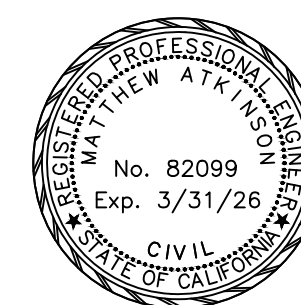
PREPARED BY:



MATTHEW ATKINSON, PROJECT ENGINEER
05/23/24 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 06/05/2024 DATE
APPROVED BY: NOEL MONDRAGON, P.E. SUPERVISING ENGINEER 06/05/2024 DATE		APPROVED BY: MERVAT N. MIKHAIL, P.E. DEPUTY DIRECTOR 06/05/2024 DATE	

DOLA DITCH AND LANZIT DITCH BRIDGE REPLACEMENT				
CONSTRUCTION DETAILS				
J.L. REF. J.L. 12145	W.O. NO. H15220	PLAN SCALE NTS	SHT. NO. 7	TOT. SHT'S. 54

NOTE:

1. FOR DECK CONTOURS, SEE STRUCTURE PLANS

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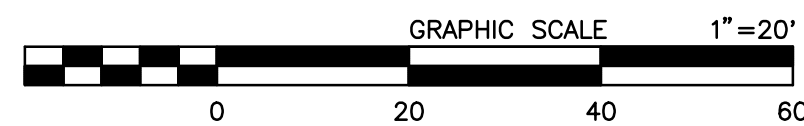
- ← DIRECTION OF TRAFFIC
- ▨ ROCK SLOPE PROTECTION



FILE NO. 586600 120

FILE NO. 586600 120

G-1



PREPARED BY:

 110 BLUE RAVINE ROAD SUITE 200, FOLSOM CA, 916-858-0642
 MATTHEW ATKINSON, PROJECT ENGINEER 05/23/24 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 06/05/2024 DATE
APPROVED BY: NOEL MONDRAGON, P.E. SUPERVISING ENGINEER 06/05/2024 DATE		APPROVED BY: MERYAT N. MIKHAIL, P.E. DEPUTY DIRECTOR 06/05/2024 DATE	

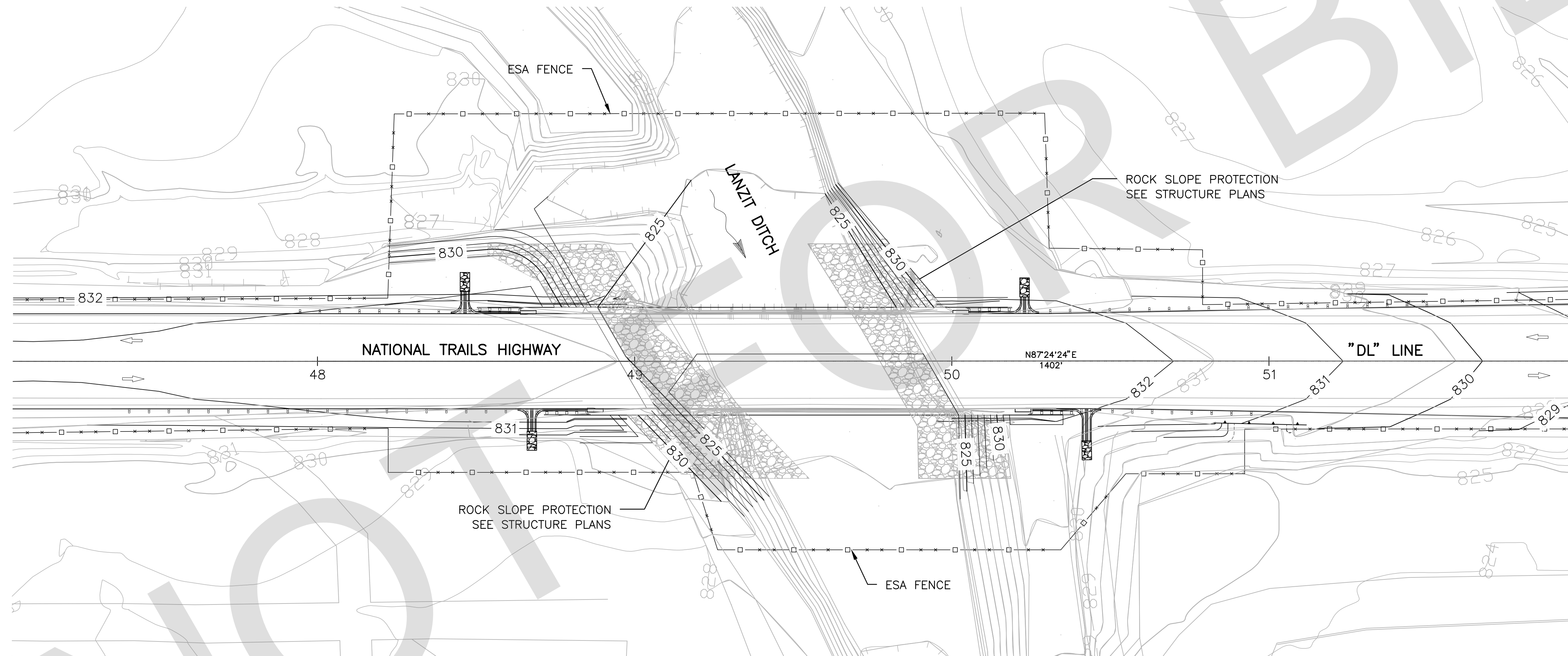
DOLA DITCH AND LANZIT DITCH BRIDGE REPLACEMENT				
CONTOUR GRADING DOLA DITCH				
J.L. REF. J.L. 12145	W.O. NO. H15220	PLAN SCALE 1"=20'	SHT. NO. 8	TOT. SHT'S. 54

NOTE:

1. FOR DECK CONTOURS, SEE STRUCTURE PLANS

LEGEND:

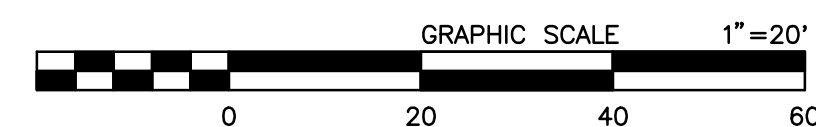
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- ▨ ROCK SLOPE PROTECTION



FILE NO. 586600 120

FILE NO. 586600 120

G-2



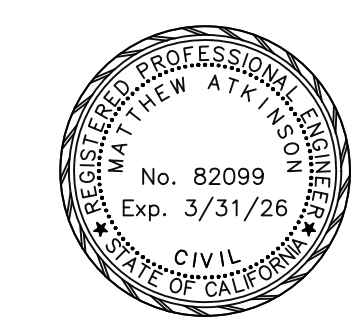
PREPARED BY:

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

Matthew Atkinson 05/23/24
MATTHEW ATKINSON, PROJECT ENGINEER 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 DATE: 06/05/2024
APPROVED BY: <i>Noel Mondragon</i> NOEL MONDRAGON, P.E. SUPERVISING ENGINEER DATE: 06/05/2024			APPROVED BY: <i>Mervat N. Mikhail</i> MERVAT N. MIKHAIL, P.E. DEPUTY DIRECTOR DATE: 06/05/2024

**DOLA DITCH AND LANZIT DITCH
BRIDGE REPLACEMENT**

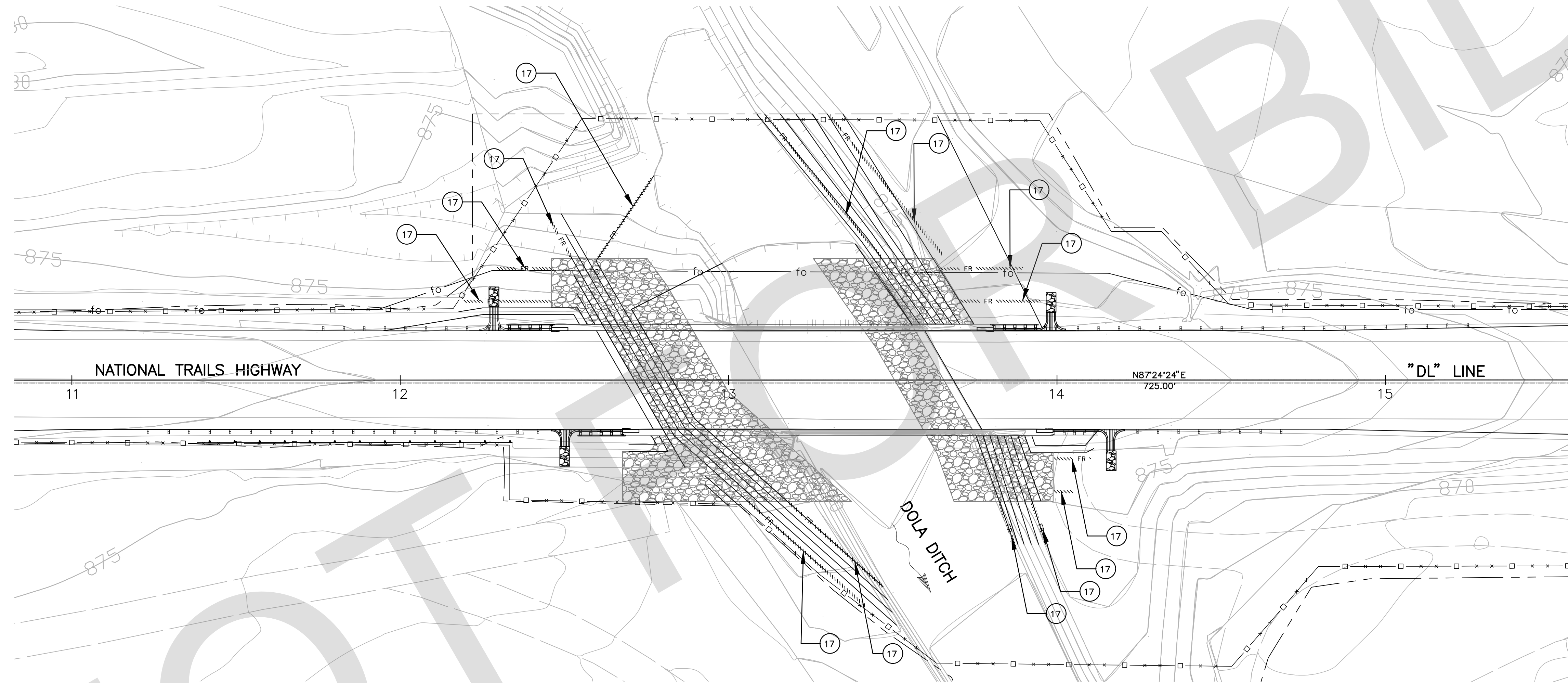
CONTOUR GRADING
LANZIT DITCH

J.L. REF. J.L. 12145	W.O. NO. H15220	PLAN SCALE 1"=20'	SHT. NO. 9	TOT. SHT'S. 54
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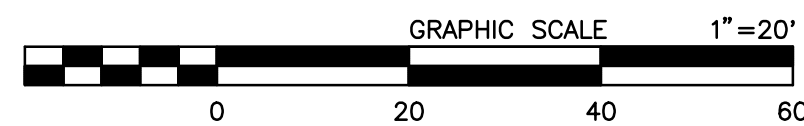
- FR FIBER ROLLS
- ROCK SLOPE PROTECTION

- CONSTRUCTION NOTES
- 17 PLACE FIBER ROLL




NOT A BID

EC-1



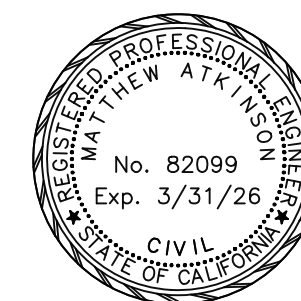
PREPARED BY:




 MATTHEW ATKINSON, PROJECT ENGINEER
 05/23/24
 DATE

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FIELD CHANGES



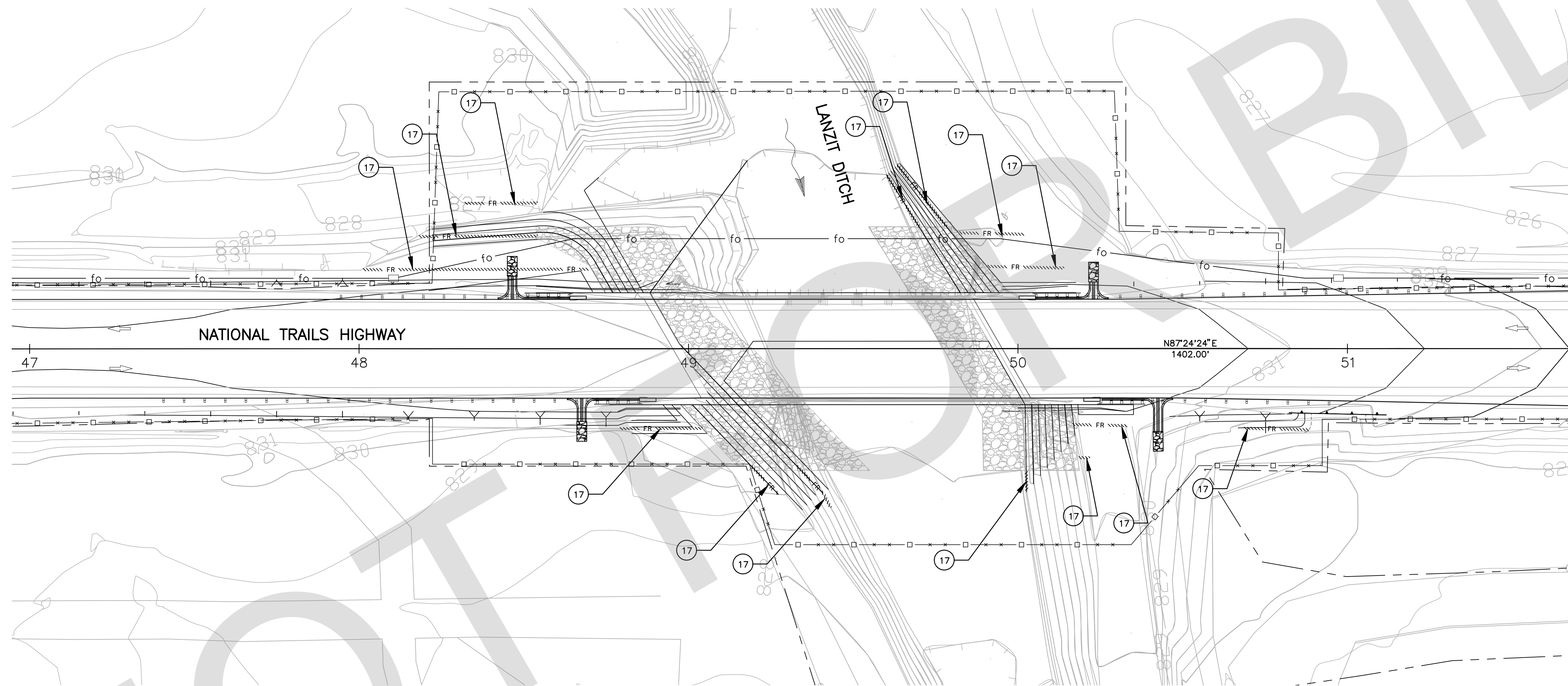
SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS			
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NOEL MONDRAGON, P.E. SUPERVISING ENGINEER 06/05/2024 DATE		APPROVED BY: Mervat N. Mikhail, P.E. DEPUTY DIRECTOR 06/05/2024 DATE	

DOLA DITCH AND LANZIT DITCH BRIDGE REPLACEMENT				
EROSION CONTROL DOLA DITCH				
J.L. REF. J.L. 12145	W.O. NO. H15220	PLAN SCALE 1"=20'	SHT. NO. 10	TOT. SHT'S. 54

LEGEND:

- FR ----- FIBER ROLLS
- ██████████ ROCK SLOPE PROTECTION

- CONSTRUCTION NOTES
- 17 PLACE FIBER ROLL

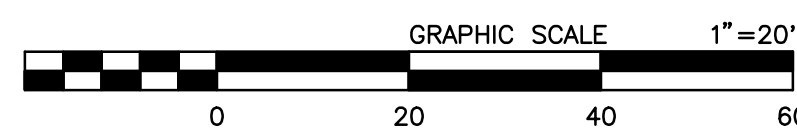


NATIONAL TRAILS HIGHWAY

LANZIT DITCH

N87°24'24"E
1402.00'

EC-2



PREPARED BY:



Matthew Atkinson
MATTHEW ATKINSON, PROJECT ENGINEER
05/23/24
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 06/05/2024 DATE
APPROVED BY: <i>Noel Mondragon</i> NOEL MONDRAGON, P.E. SUPERVISING ENGINEER 06/05/2024 DATE		APPROVED BY: <i>Mervat N. Mikhail</i> MERVAT N. MIKHAIL, P.E. DEPUTY DIRECTOR 06/05/2024 DATE	

DOLA DITCH AND LANZIT DITCH BRIDGE REPLACEMENT			
EROSION CONTROL LANZIT DITCH			
J.L. REF. J.L. 12145	W.O. NO. H15220	PLAN SCALE 1"=20'	TOT. SHT'S. 54

SAN BERNARDINO COUNTY TRAFFIC GENERAL NOTES:

- ALL SIGNING, STRIPING AND PAVEMENT MARKINGS SHALL BE IN CONFORMANCE WITH THE CALIFORNIA MUTCD LATEST EDITION.
- ALL STRIPING AND PAVEMENT MARKINGS SHALL BE PAINTED IN CONFORMANCE WITH THE CALTRANS 2022 STANDARD PLANS.
- ALL STRIPING (LONG LINE) AND PAVEMENT MARKINGS SHALL BE RETROREFLECTIVE PAINT.
- ALL SIGNS SHALL BE OF HIGH INTENSITY (FHWA TYPE III/IV) RETROREFLECTIVE SHEETING EXCEPT:
 - STOP SIGNS SHALL BE DIAMOND GRADE (FHWA TYPE VII IN RURAL SETTINGS AND TYPE IX IN URBAN SETTINGS) RETROREFLECTIVE SHEETING.
 - "NO PARKING" SIGNS SHALL BE OF SUPER ENGINEERING GRADE (FHWA TYPE II) RETROREFLECTIVE SHEETING.
 - SCHOOL SIGNS SHALL BE OF DIAMOND GRADE (FHWA TYPE IX) FLUORESCENT YELLOW-GREEN (FYG) RETROREFLECTIVE SHEETING.
 - STREET NAME MARKERS SHALL BE OF DIAMOND GRADE (FHWA TYPE IX) RETROREFLECTIVE SHEETING AND CONFORM TO COUNTY STANDARD 303.
 - CONSTRUCTION SIGNS SHALL BE OF DIAMOND GRADE (FHWA TYPE IX) FLUORESCENT ORANGE RETROREFLECTIVE SHEETING.
- ALL DELINEATORS, CHANNELIZERS, AND OBJECT MARKERS SHALL BE OF FHWA TYPE VII RETROREFLECTIVE SHEETING.

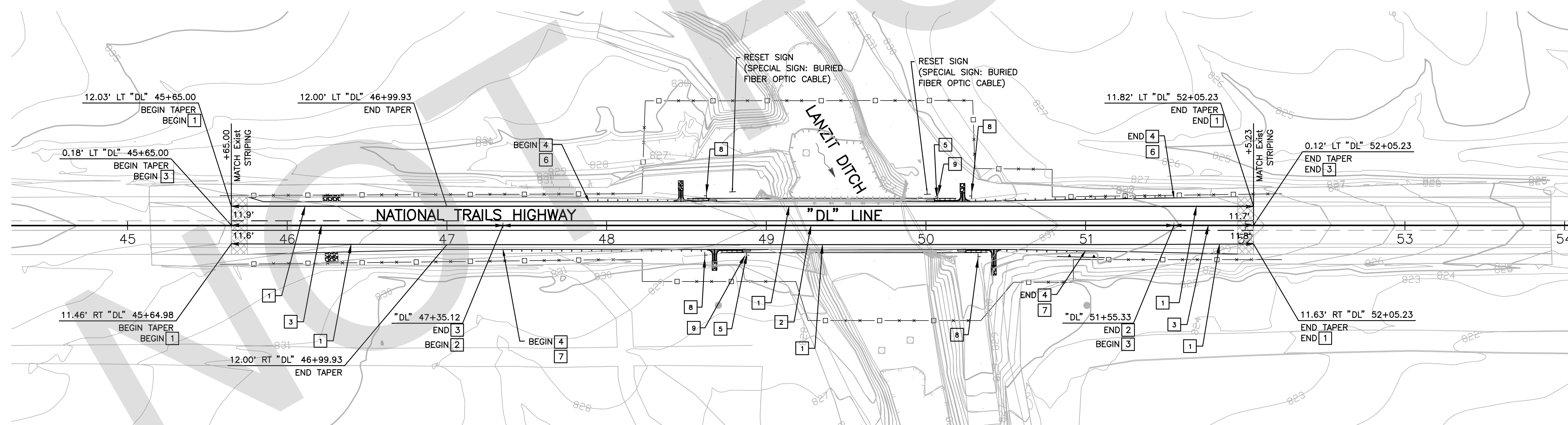
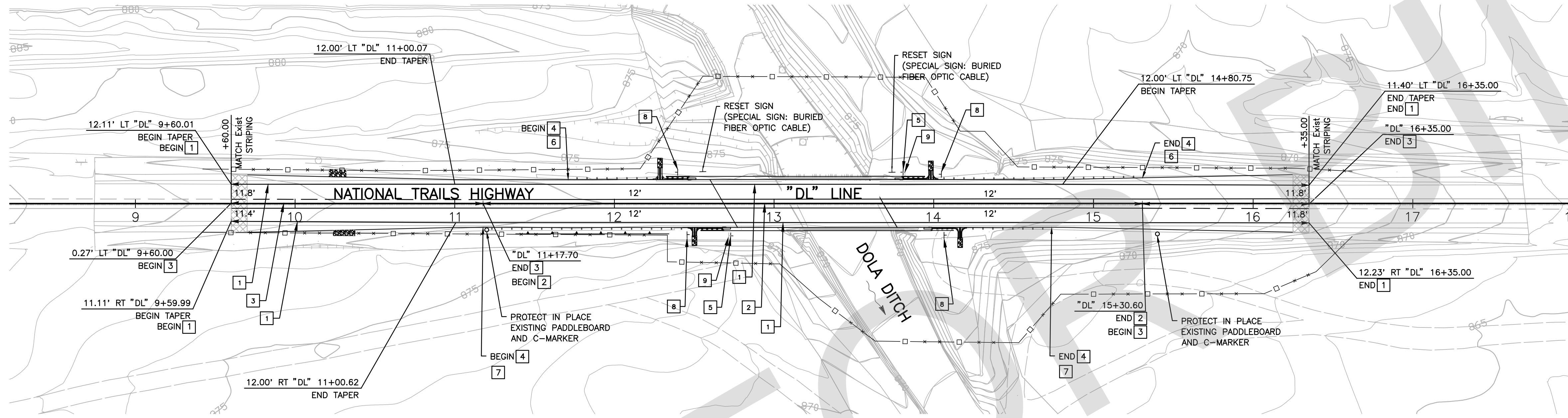
- SIGNS SHALL BE MOUNTED ON METAL POSTS SIMILAR TO COUNTY STANDARDS 303(a) AND 303(b).
- ALL CONFLICTING STRIPING AND PAVEMENT MARKINGS NOT SHOWN ON PLANS SHALL BE REMOVED BY THE CONTRACTOR. REMOVAL SHALL BE ACCOMPLISHED BY SANDBLASTING, GRINDING, OR AS DIRECTED BY COUNTY REPRESENTATIVE.
- ALL CONFLICTING SIGNS SHALL BE REMOVED, RELOCATED, OR COVERED BY THE CONTRACTOR. RELOCATABLE SIGNS SHALL BE INSTALLED AS SPECIFIED ON THE PLANS OR AS DIRECTED BY COUNTY REPRESENTATIVE.
- ALL UNPROTECTED LOCATIONS RESULTING IN ISOLATED ABRUPT DEPRESSIONS OR ELEVATED OBJECT (I.E. CATCH BASINS, HEADWALLS, POWER POLES, END TREATMENT OF ASPHALT DIKES AND CONCRETE CURBS) SHALL BE PROTECTED BY DELINEATORS OR BARRIERS PER THE CALIFORNIA MUTCD LATEST EDITION.
- ALL EXISTING SIGNING, STRIPING AND PAVEMENT MARKINGS (I.E. CROSS STREET STROP, STOP LIMIT LINE, AND CROSSWALK PAVEMENT MARKINGS) NOT SHOWN ON PLANS, IF REMOVED/OBLITERATED, SHALL BE REPLACED/RESTORED OF SAME KIND, AND IN CONFORMANCE WITH THE CALIFORNIA MUTCD LATEST EDITION.
- THE CONTRACTOR SHALL NOTIFY COUNTY REPRESENTATIVE TO SCHEDULE A FINAL REVIEW (WALK THROUGH) WITH TRAFFIC DIVISION PERSONNEL FOR APPROVAL OF TRAFFIC CONTROL DEVICES PRIOR TO PROJECT ACCEPTANCE.

LEGEND:

◀ BEGIN/END OF TRAFFIC STRIPE DETAIL

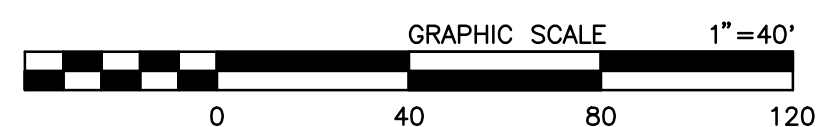
TRAFFIC CONSTRUCTION NOTES

- PLACE PAINT TRAFFIC STRIPE, DETAIL 27B PER CALTRANS STD PLAN A20B.
- PLACE INSTALL PAINT TRAFFIC STRIPE, DETAIL 21 PER CALTRANS STD PLAN A20A.
- PLACE PAINT TRAFFIC STRIPE, DETAIL 18 PER CALTRANS STD PLAN A20A.
- INSTALL DELINEATORS (CLASS 1) SPACING 25' PER CA MUTCD 2014, FIG 3F-101 (CA) TYPE E.
- INSTALL OBJECT MARKER (TYPE L) FOR BRIDGE NUMBER PER CA MUTCD 2014, FIG 2A-2(CA) AND FIG 2C-13(CA).
- 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, SEE SHEET C-1 FOR DETAILS.
- REMOVE BRIDGE NUMBER OBJECT MARKER.



SS-1

FILE NO. 586600 120



PREPARED BY:



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

Matthew Atkinson, Project Engineer 05/23/24 DATE

MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		

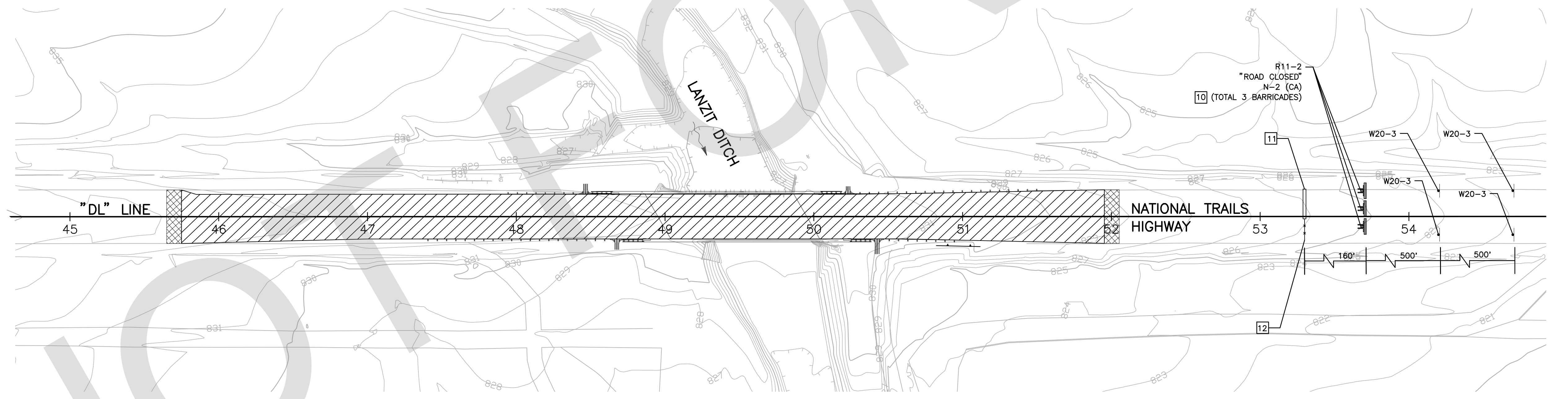
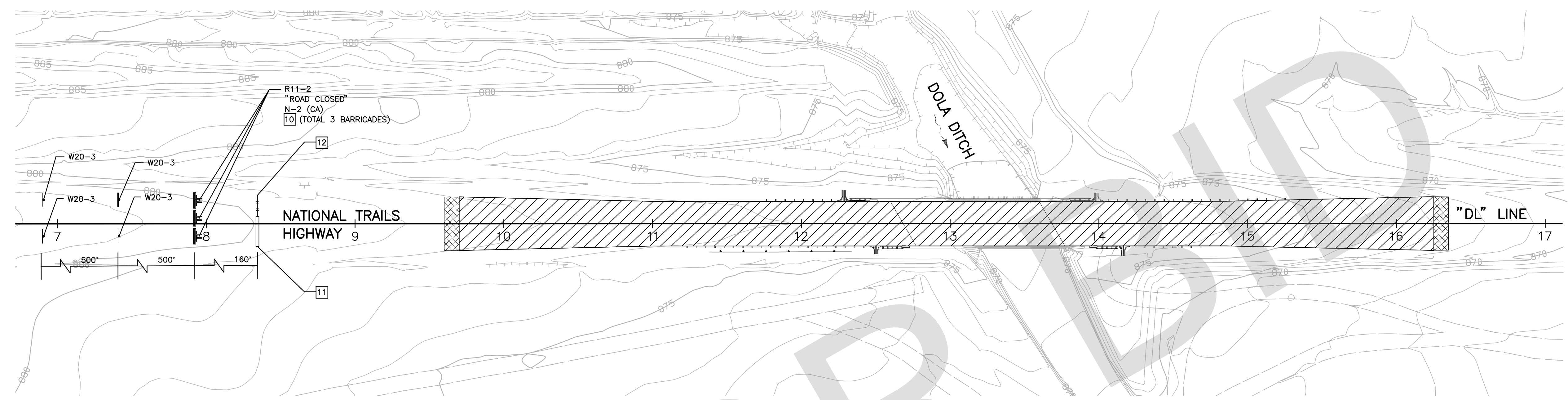
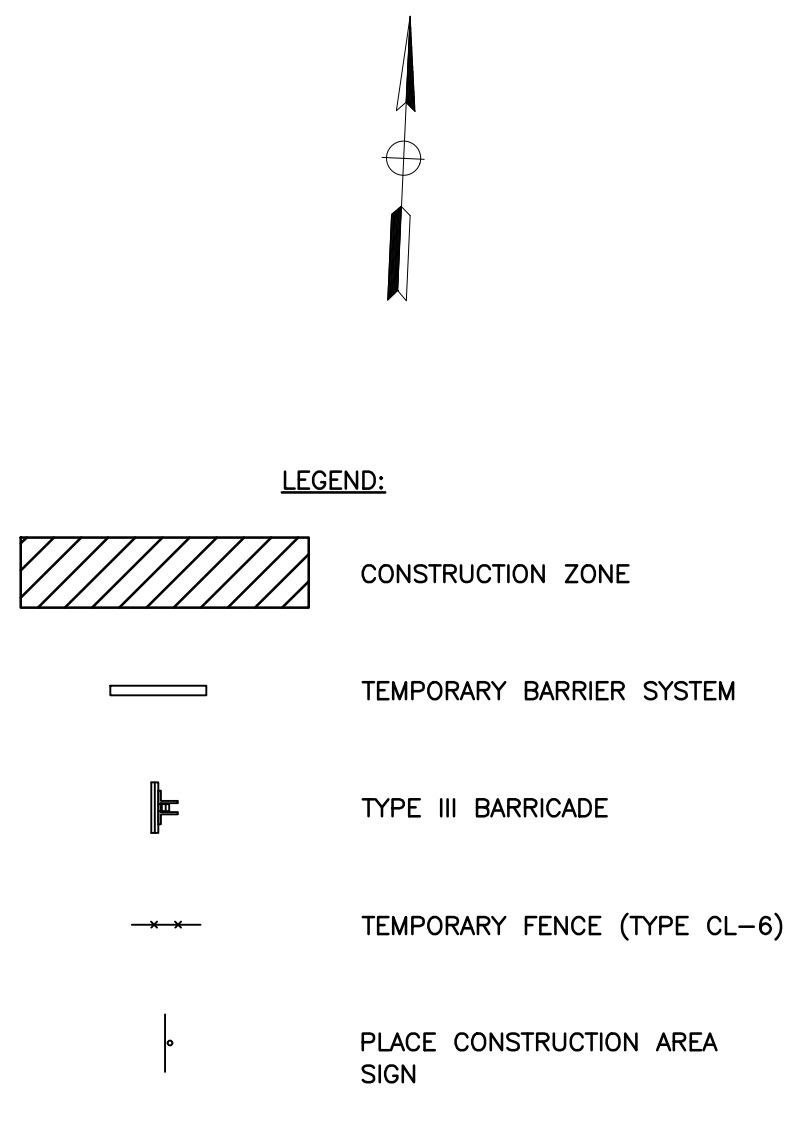
FIELD CHANGES



SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS			
DESIGNED BY:	DRAWN BY:	CHECKED BY:	RECOMMENDED BY:
DH	DH	MA	06/05/2024 JEREMY JOHNSON, P.E. TRAFFIC DIVISION ENGINEERING MANAGER
APPROVED BY:			6/5/2024 GRANT MANN, M.S., P.E. DEPUTY DIRECTOR

DOLA DITCH AND LANZIT DITCH BRIDGE REPLACEMENT				
SIGNING AND STRIPING				
J.L. REF.	W.O. NO.	PLAN SCALE	SHT. NO.	TOT. SHT'S.
J.L. 12145	H15220	1"=40'	12	54

NOTE:
1. SEE SHEET DE-1 FOR TEMPORARY TRAFFIC CONTROL GENERAL NOTES.



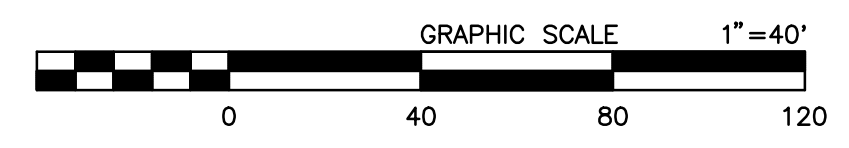
- TRAFFIC CONSTRUCTION NOTES
- 10 PLACE TYPE III BARRICADE, PER CALTRANS STD PLAN A73C.
 - 11 PLACE TEMPORARY BARRIER SYSTEM PER CALTRANS STD PLAN T3A.
 - 12 PLACE TEMPORARY FENCE (TYPE CL-6) PER CALTRANS STD PLAN A85.

CONSTRUCTION AREA SIGNS

SIGN CODE	SIGN MESSAGE	PANEL SIZE	POST SIZE	QUANTITY
W20-3	ROAD CLOSED (DISTANCE)	48" x 48"	4" x 6"	8
R11-2	ROAD CLOSED	48" x 30"	4" x 6"	2

FOR ADDITIONAL CONSTRUCTION AREA SIGNS, SEE DETOUR PLANS

TH-1



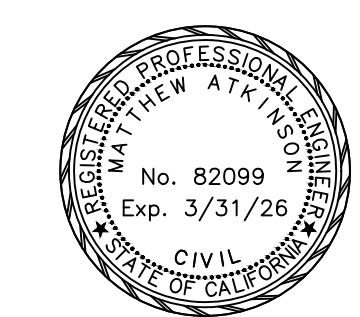
PREPARED BY:

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

Matthew Atkinson, PROJECT ENGINEER 05/23/24 DATE

MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		

FIELD CHANGES



SAN BERNARDINO COUNTY
DEPARTMENT OF PUBLIC WORKS

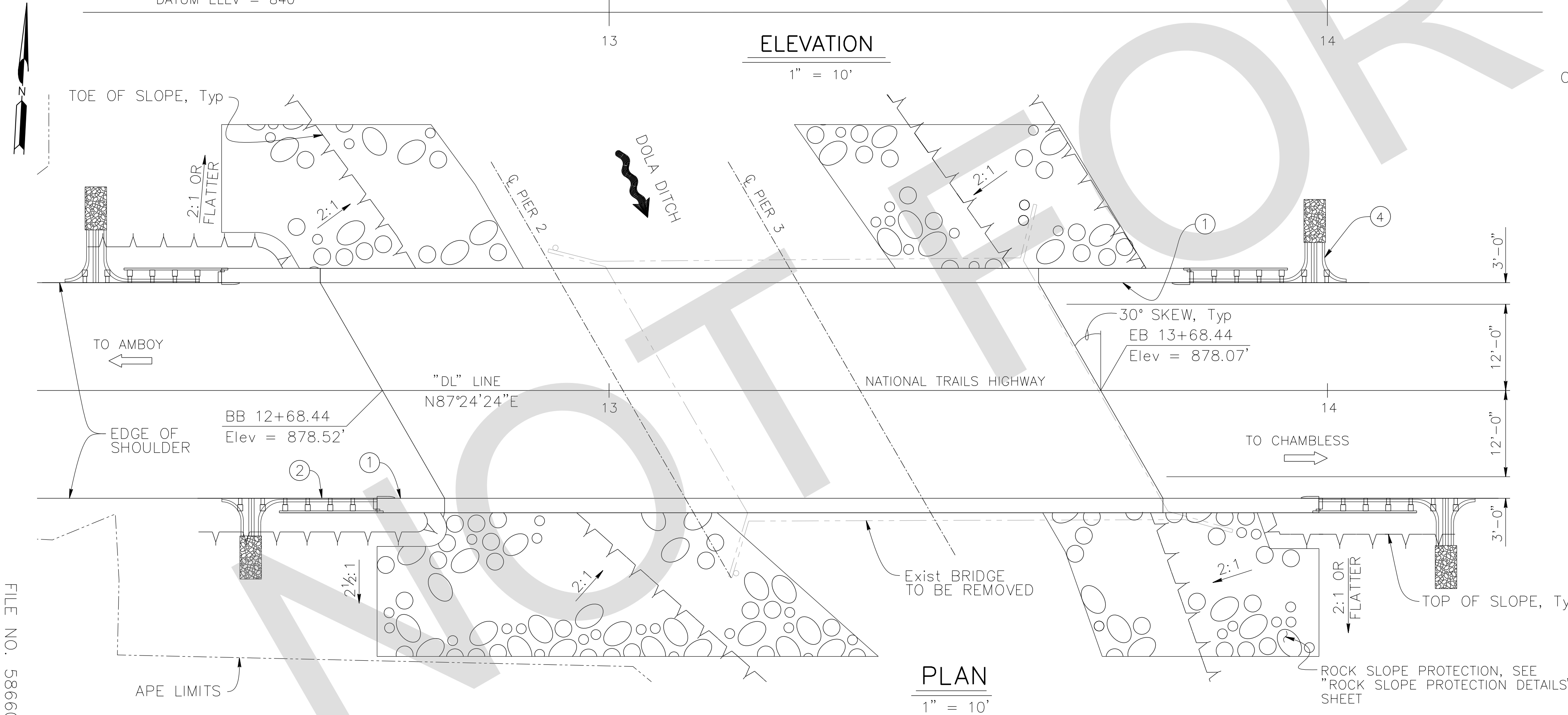
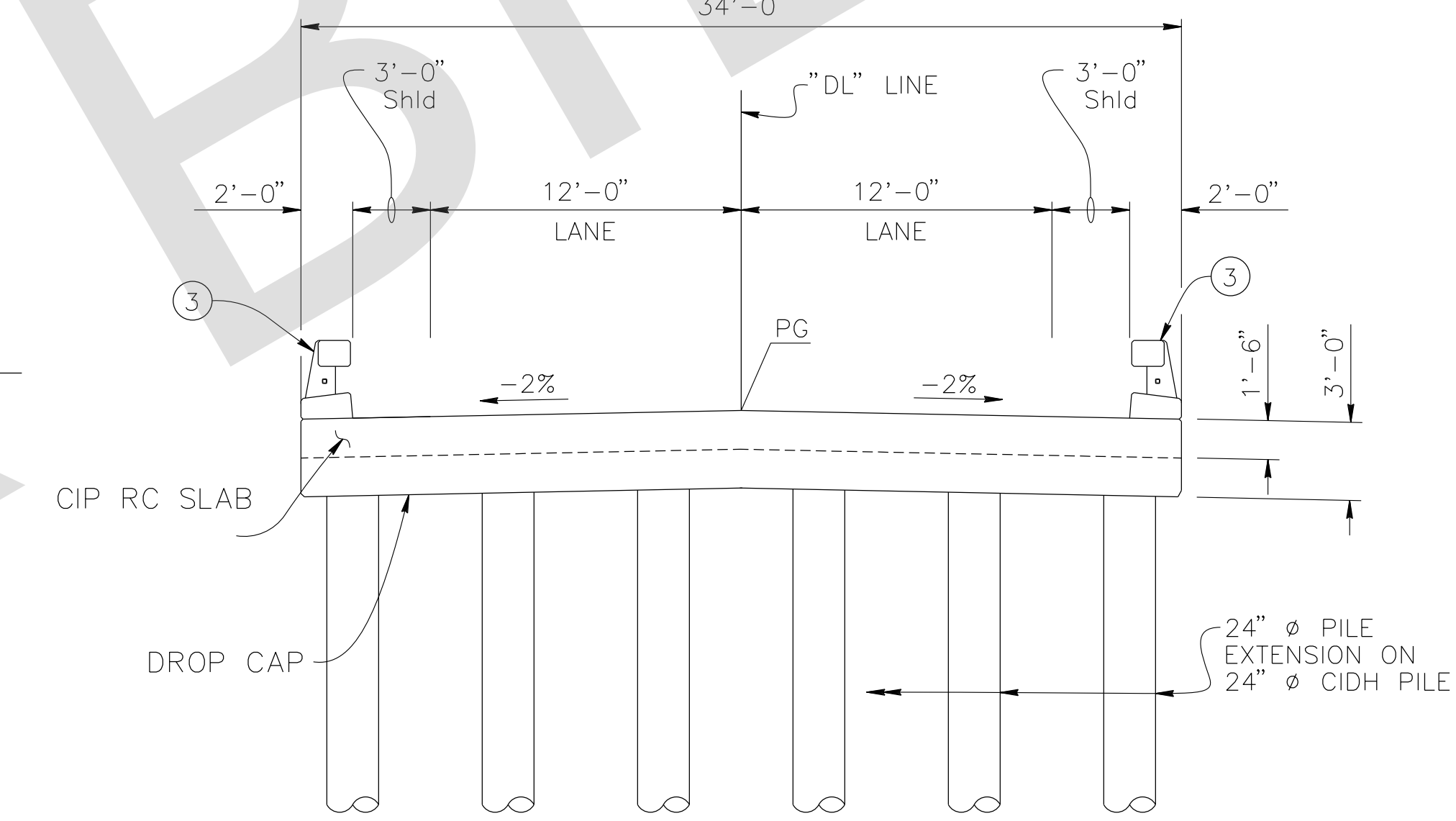
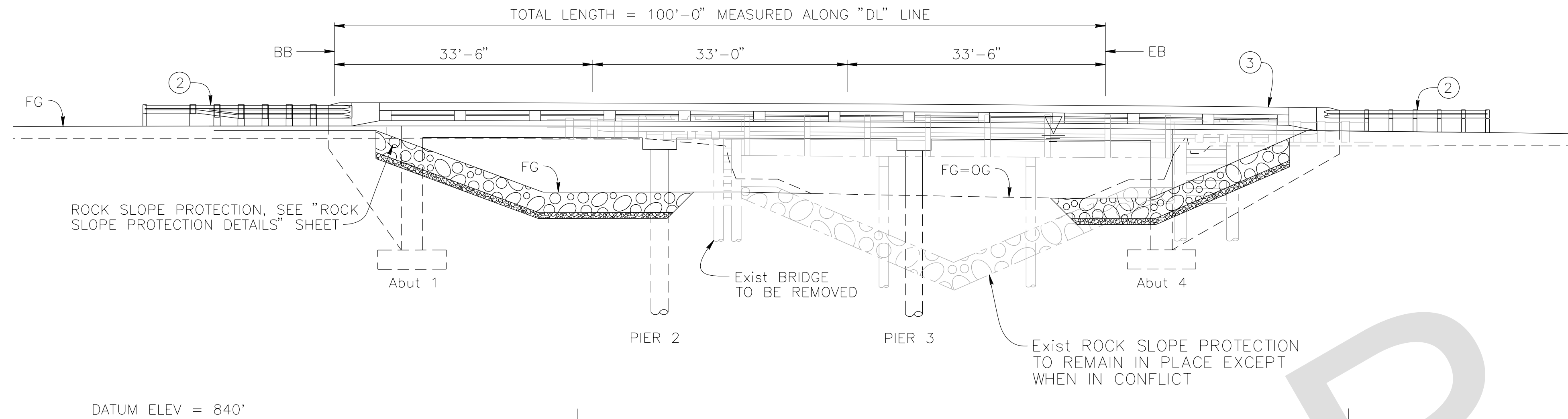
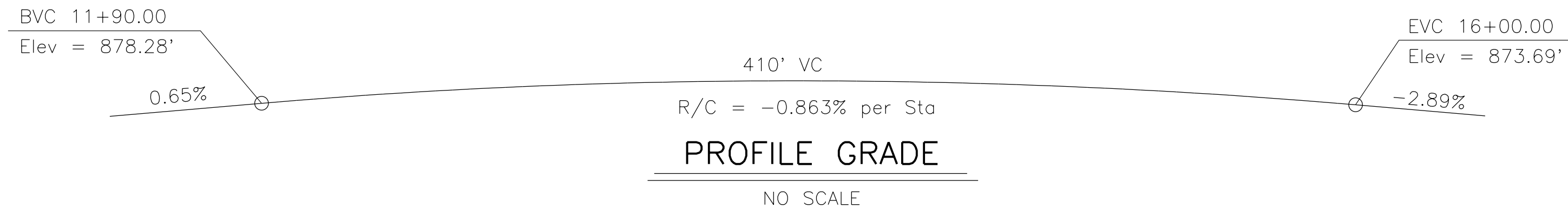
DESIGNED BY: DH	DRAWN BY: DH	CHECKED BY: MA	RECOMMENDED BY: JEREMY JOHNSON, P.E. TRAFFIC DIVISION ENGINEERING MANAGER 06/05/2024 DATE
LEI LI, P.E. SUPERVISING ENGINEER 6/5/2024 DATE	GRANT MANN, M.S., P.E. DEPUTY DIRECTOR 6/5/2024 DATE	APPROVED BY: 6/5/2024 DATE	

DOLA DITCH AND LANZIT DITCH
BRIDGE REPLACEMENT

TRAFFIC HANDLING PLAN

J.L. REF. J.L. 12145	W.O. NO. H15220	PLAN SCALE 1"=40'	SHT. NO. 13	TOT. SHT'S. 54
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FILE NO. 586600 120



TYPICAL SECTION
3/16" = 1'-0"

- NOTES:
- For "INDEX TO PLANS", "GENERAL NOTES", "STANDARD PLANS" list and "QUANTITIES", see "INDEX TO PLANS" sheet.
 - Paint "DOLA DITCH BRIDGE" "Br No. 54C0285" Year Constructed
 - MGS, See Roadway Plans L-1 sheet.
 - Concrete Barrier (Type 85). To be painted white.
 - HMA outside drain with rock slope protection, Typ See Roadway Plans.
- LEGEND:
- ▽ Water Surface Elevation. For "HYDROLOGIC SUMMARY" table, see "FOUNDATION PLAN" sheet.
 - Existing Structure

PREPARED BY:

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

Rosall S. Griggs 2/22/24
ROSA GRIGGS, PROJECT ENGINEER DATE

MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		

FIELD CHANGES



SAN BERNARDINO COUNTY
DEPARTMENT OF PUBLIC WORKS

DESIGNED BY: NO	DRAWN BY: AD	CHECKED BY: JR	RECOMMENDED BY: 06/05/2024 CHRIS NGUYEN, P.E. TRANSPORTATION DESIGN ENGINEERING MANAGER
APPROVED BY: 06/05/2024 NOEL MONDRAGON, P.E. SUPERVISING ENGINEER			06/05/2024 MERVAT N. MIHALI, P.E. DEPUTY DIRECTOR

DOLA DITCH BRIDGE
BRIDGE No. 54C0285
(County No. 81)
GENERAL PLAN

J.L. REF. J.L. 12145	W.D. NO. H15220	PLAN SCALE AS NOTED	SHT. NO. 14	TOT. SHT'S. 54
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FILE NO. 586600 120

REVISIONS	DATE	APPR.

GENERAL NOTES LOAD AND RESISTANCE FACTOR DESIGN

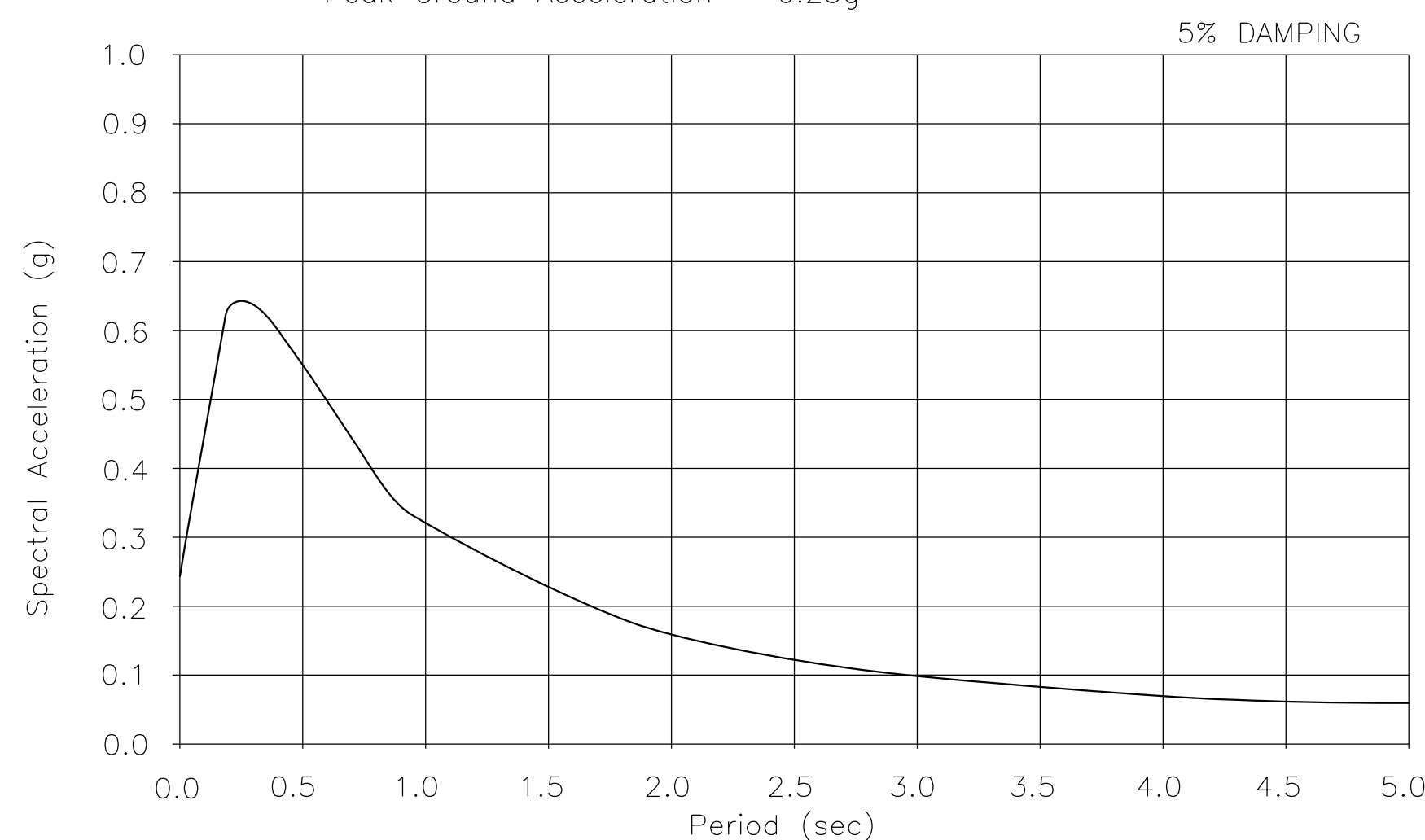
DESIGN: AASHTO LRFD Bridge Design Specifications, 8th Edition with California Amendments, preface dated January 2017

SEISMIC DESIGN: CALTRANS SEISMIC DESIGN CRITERIA (SDC) Version 2.0, April 2019

DEAD LOAD: Includes 0.035 ksf for future wearing surface

LIVE LOAD: HL-93 and Permit Design Load

SEISMIC DATA: Soil profile : $V_{s30} = 1017$ ft/s
Moment Magnitude : 6.40
Peak Ground Acceleration = 0.25g



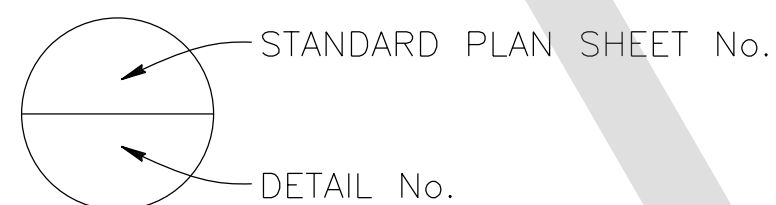
ARS CURVE

No Scale

REINFORCED CONCRETE: $f_y = 60$ ksi
 $f'_c =$ See "CONCRETE STRENGTH AND TYPE LIMITS"
 $n = 8$

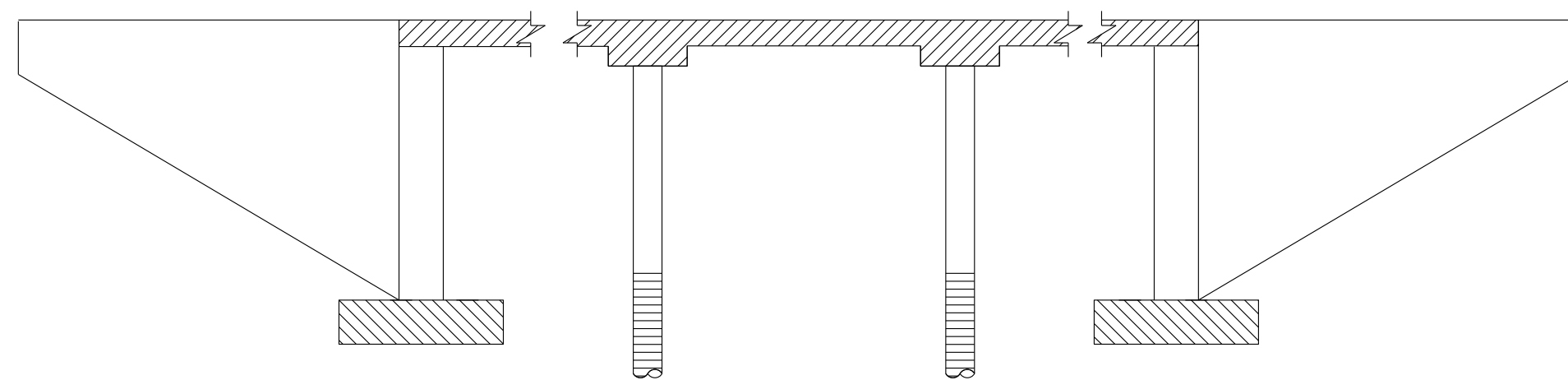
STANDARD PLANS DATED 2023

A3A	ABBREVIATIONS (SHEET 1 OF 3)
A3B	ABBREVIATIONS (SHEETS 2 OF 3)
A3C	ABBREVIATIONS (SHEETS 3 OF 3)
A10A	LEGEND - LINES AND SYMBOLS (SHEET 1 OF 5)
A10B	LEGEND - LINES AND SYMBOLS (SHEET 2 OF 5)
A10C	LEGEND - LINES AND SYMBOLS (SHEET 3 OF 5)
A10D	LEGEND - LINES AND SYMBOLS (SHEET 4 OF 5)
A10E	LEGEND - LINES AND SYMBOLS (SHEET 5 OF 5)
A10F	LEGEND - SOIL (SHEET 1 OF 2)
A10G	LEGEND - SOIL (SHEET 2 OF 2)
A10H	LEGEND - ROCK
A62C	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL - BRIDGE
B0-1	BRIDGE DETAILS
B0-3	BRIDGE DETAILS
B0-13	BRIDGE DETAILS
B11-83	CONCRETE BARRIER TYPE 85 DETAILS No. 1
B11-84	CONCRETE BARRIER TYPE 85 DETAILS No. 2
B11-85	CONCRETE BARRIER TYPE 85 DETAILS No. 3



INDEX TO PLANS

SHEET No.	TITLE
14	GENERAL PLAN
15	INDEX TO PLANS
16	DECK CONTOURS
17	FOUNDATION PLAN
18	ABUTMENT LAYOUT
19	ABUTMENT DETAILS
20	PIER LAYOUT
21	TYPICAL SECTION
22	ADDITIONAL SLAB REINFORCEMENT
23	ROCK SLOPE PROTECTION DETAILS
24	LOG OF TEST BORINGS

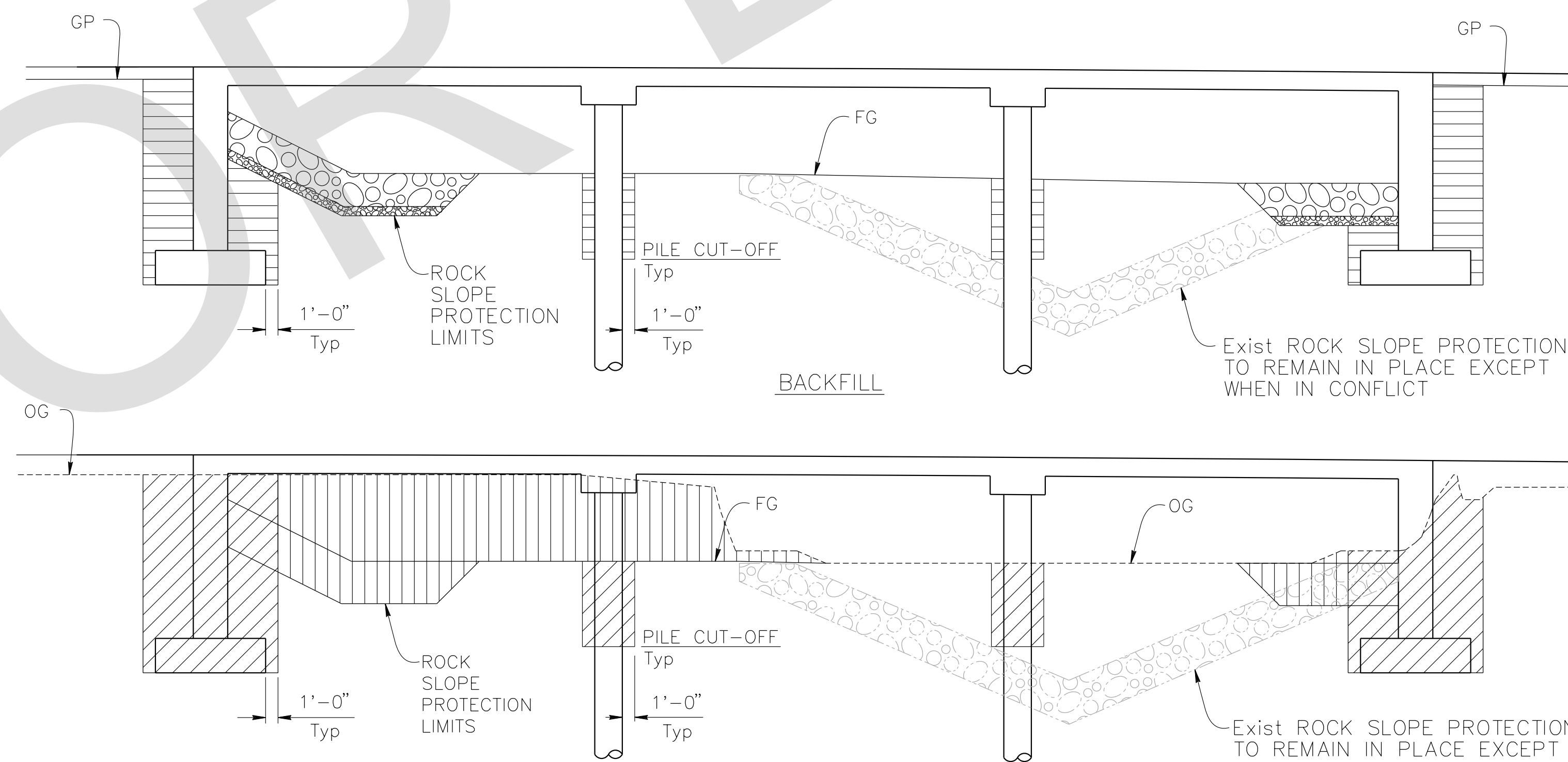


LEGEND:

- Structural Concrete, Bridge ($f'_c = 3.6$ ksi @ 28 days)
- Structural Concrete, Bridge Footing ($f'_c = 3.6$ ksi @ 28 days)
- Structural Concrete, Bridge (Polymer Fiber) ($f'_c = 4.0$ ksi)
- Cast-in-Drilled-Hole Concrete Piling ($f'_c = 3.6$ ksi)

CONCRETE STRENGTH AND TYPE LIMITS

No Scale



NOTE:
For Wingwall Excavation and Backfill Limits
see Standard Plan A62C

LEGEND:

- Structure Excavation (Bridge)
- Channel Excavation
- Structure Backfill (Bridge)
- Rock Slope Protection, See "Rock Slope Protection Detail" sheet.

LIMITS OF PAYMENT OF STRUCTURE EXCAVATION AND BACKFILL

No Scale

QUANTITIES

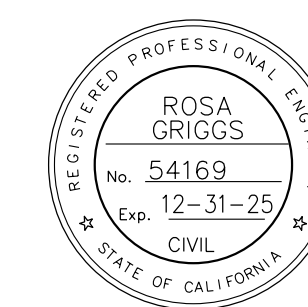
ITEM	QUANTITY	UNIT
STRUCTURE EXCAVATION (BRIDGE)	640	CY
STRUCTURE BACKFILL (BRIDGE)	429	CY
24" CAST-IN-DRILLED-HOLE CONCRETE PILING	726	LF
STRUCTURAL CONCRETE, BRIDGE FOOTING	78	CY
STRUCTURAL CONCRETE, BRIDGE	156	CY
STRUCTURAL CONCRETE, BRIDGE (POLYMER FIBER)	207	CY
BAR REINFORCING STEEL (BRIDGE)	121,089	LB
BAR REINFORCING STEEL (GALVANIZED)	1,798	LB
BRIDGE REMOVAL	1	LS
ROCK SLOPE PROTECTION (¼ TON, CLASS V, METHOD B)	466	CY
GRAVEL FILTER	123	CY
CONCRETE BARRIER (TYPE 85)	272	LF

PREPARED BY:

DE DOKKEN ENGINEERING
110 BLUE RAINE ROAD SUITE 200, FOLSOM CA. 916-858-0642
Rosall S. Griggs 2/22/24
ROSA GRIGGS, PROJECT ENGINEER

MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		

FIELD CHANGES



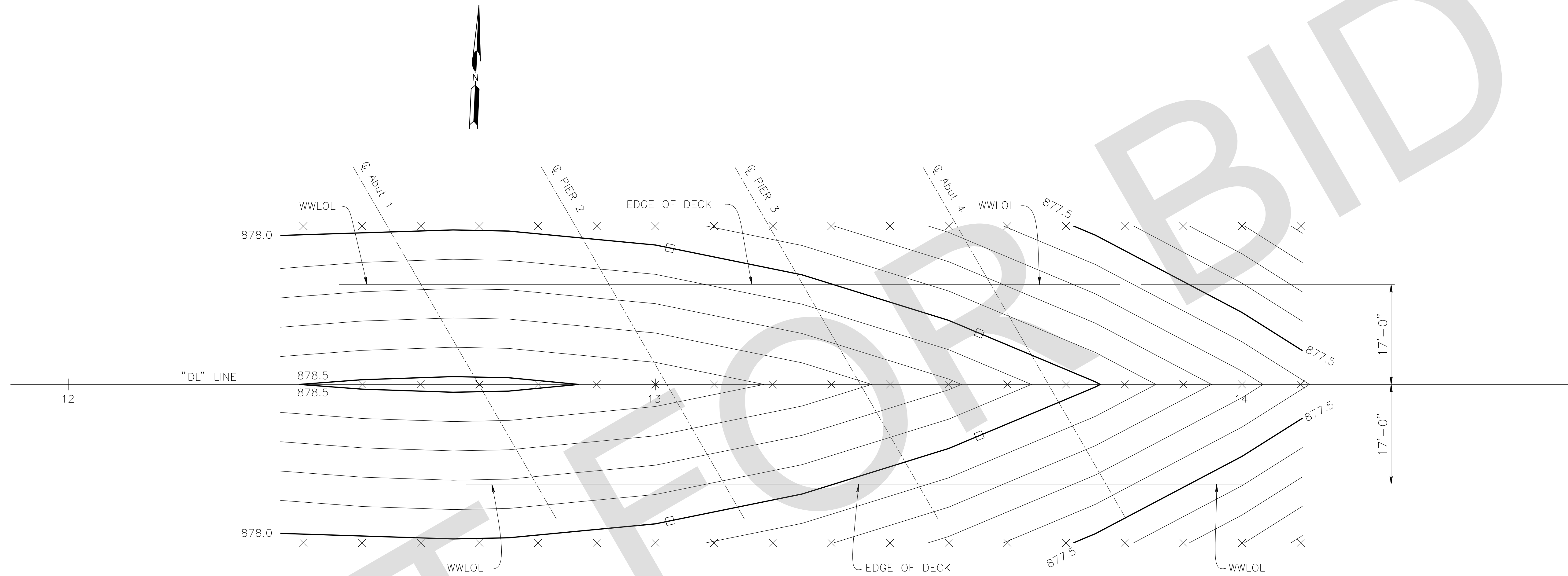
SAN BERNARDINO COUNTY
DEPARTMENT OF PUBLIC WORKS

DESIGNED BY: NO	DRAWN BY: AD	CHECKED BY: JR	RECOMMENDED BY: <i>Chris Nguyen</i> CHRIS NGUYEN, P.E. TRANSPORTATION DESIGN ENGINEERING MANAGER 06/05/2024
APPROVED BY: <i>Noel Mondragon</i> NOEL MONDRAGON, P.E. SUPERVISING ENGINEER 06/05/2024			APPROVED BY: <i>Mervat N. Mikhail</i> MERVAT N. MIKHAIL, P.E. DEPUTY DIRECTOR 06/05/2024

DOLA DITCH BRIDGE
BRIDGE No. 54C0285
(County No. 81)
INDEX TO PLANS

J.L. REF. J.L. 12145	W.O. NO. H15220	PLAN SCALE AS NOTED	SHT. NO. 15	TOT. SHT'S. 54
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FILE NO. 586600 120



NOTES:

1. 0.1' contour intervals shown.
2. Contours do not include camber.
3. Top of concrete deck shown.

LEGEND:

- × 10' intervals along station line.
- 1' index contour intervals.

DECK CONTOURS

1" = 10'

PREPARED BY:



Rosall S. Griggs
ROSA GRIGGS, PROJECT ENGINEER
2/22/24
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:	DATE
NO	AD	JR	CHRIS NGUYEN, P.E. TRANSPORTATION DESIGN ENGINEERING MANAGER	06/05/2024
NOEL MONDRAGON, P.E. SUPERVISING ENGINEER			MERVAT N. MIKHAIL, P.E. DEPUTY DIRECTOR	06/05/2024

DOLA DITCH BRIDGE
BRIDGE No. 54C0285
(County No. 81)
DECK CONTOURS

J.L. REF.	W.O. NO.	PLAN SCALE	SHT. NO.	TOT. SHT'S.
J.L. 12145	H15220	AS NOTED	16	54

MARK	REVISIONS	APPR.	DATE

MARK	REVISIONS	APPR.	DATE

FILE NO. 586600 120

SCOUR DATA TABLE		
Support Location	Long Term (Degradation and Contraction) Scour Elevation (ft)	Short Term (Local) Scour Depth (ft)
Abut 1	867.2	4.70
PIER 2	867.2	4.70
PIER 3	867.2	4.70
Abut 4	867.2	4.70

HYDROLOGIC SUMMARY		
Drainage Area: 16,853 acres		
	Design Flood	Base Flood
Frequency	50-yr	100-yr
Discharge	3304 cfs	3735 cfs
Water Surface Elevation at Bridge	876.79 ft	877.58 ft

Flood plain data are based upon information available when the plans were prepared and are shown to meet federal requirements. The accuracy of said information is not warranted by the State and interested or affected parties should make their own investigation.

PILE DATA TABLE					
Location	Pile Type	Nominal Resistance (kips)		Design Tip Elevation (ft)	Specified Tip Elevation (ft)
		Compression	Tension		
PIER 2	24" CIDH	320	N/A	801.5(a) 829.5(c) 830.0(d)	801.5
PIER 3	24" CIDH	317	N/A	802.5(a) 839.5(c) 830.0(d)	802.5

NOTE:

- The contractor shall verify all existing utilities prior to new construction.

LEGEND:

XXX.X Bottom of footing elevation (ft)

○ 24" Ø CIDH Pile

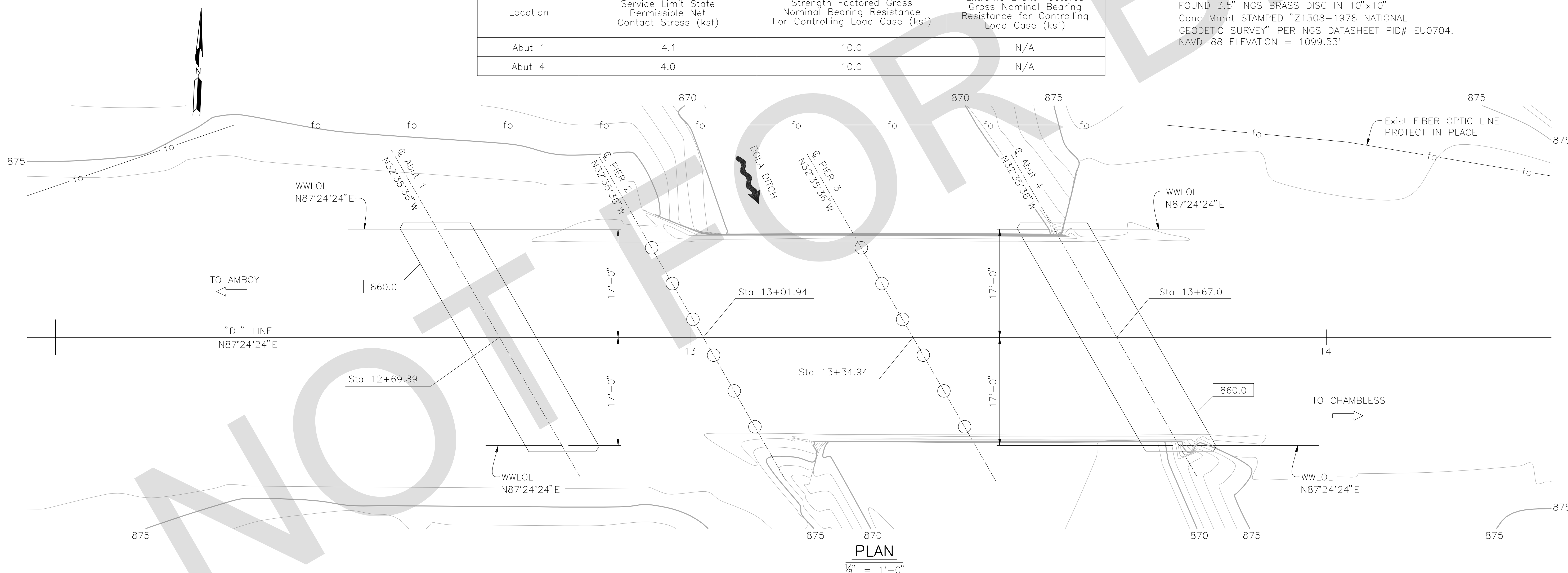
NOTES:

- Design tip elevations for Abutments are controlled by: (a) Compression, (b) Tension (c) Settlement and (d) Lateral Load.
- The CIDH Specified Tip Elevation shall not be raised.
- Design tip elevation for lateral load is provided by design engineer.

SPREAD FOOTING DATA TABLE			
Location	Service Limit State Permissible Net Contact Stress (ksf)	Strength Factored Gross Nominal Bearing Resistance For Controlling Load Case (ksf)	Extreme Event Factored Gross Nominal Bearing Resistance for Controlling Load Case (ksf)
Abut 1	4.1	10.0	N/A
Abut 4	4.0	10.0	N/A

BENCHMARK

FOUND 3.5" NGS BRASS DISC IN 10"x10" Conc Mnmt STAMPED "Z1308-1978 NATIONAL GEODETIC SURVEY" PER NGS DATASHEET PID# EU0704. NAVD-88 ELEVATION = 1099.53'



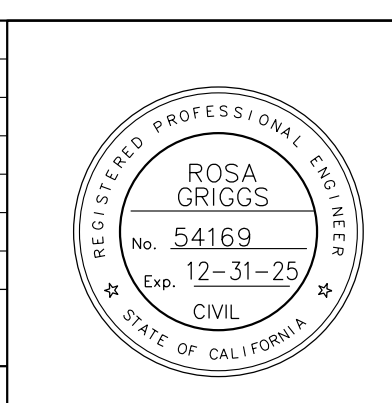
PLAN
1/8" = 1'-0"

PREPARED BY:

DE DOKKEN ENGINEERING
110 BLUE RAINE ROAD SUITE 200, FOLSOM CA. 916-858-0642
Rosa Griggs, Project Engineer
2/22/24

MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		

FIELD CHANGES



SAN BERNARDINO COUNTY
DEPARTMENT OF PUBLIC WORKS

DESIGNED BY: NO
DRAWN BY: AD
CHECKED BY: JR
RECOMMENDED BY: CHRIS NGUYEN, P.E., TRANSPORTATION DESIGN ENGINEERING MANAGER, 06/05/2024

APPROVED BY: MERVAT N. MIHAIL, P.E., DEPUTY DIRECTOR, 06/05/2024

NOEL MONDRAGON, P.E., SUPERVISING ENGINEER, 06/05/2024

DOLA DITCH BRIDGE
BRIDGE No. 54C0285
(County No. 81)
FOUNDATION PLAN

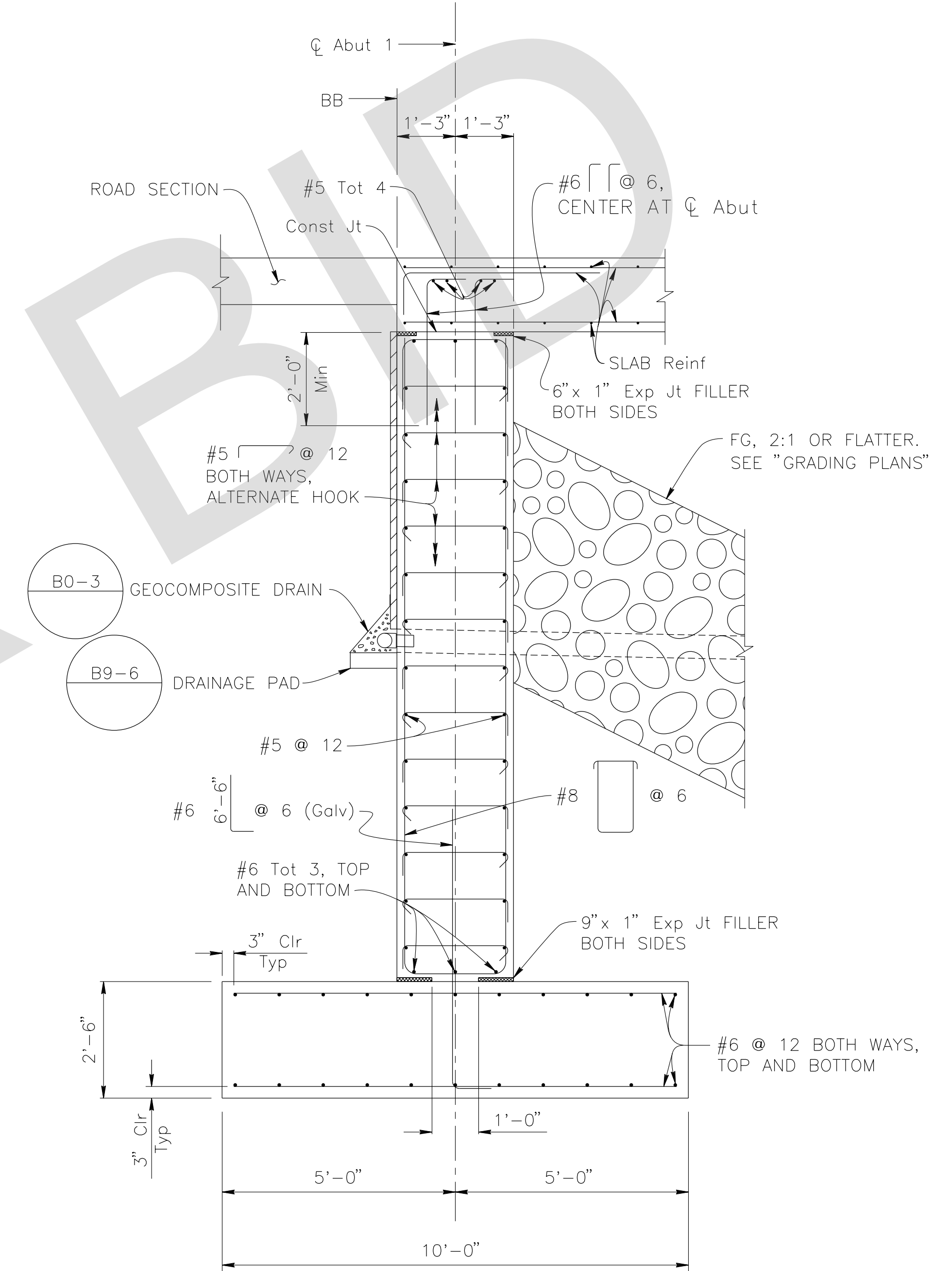
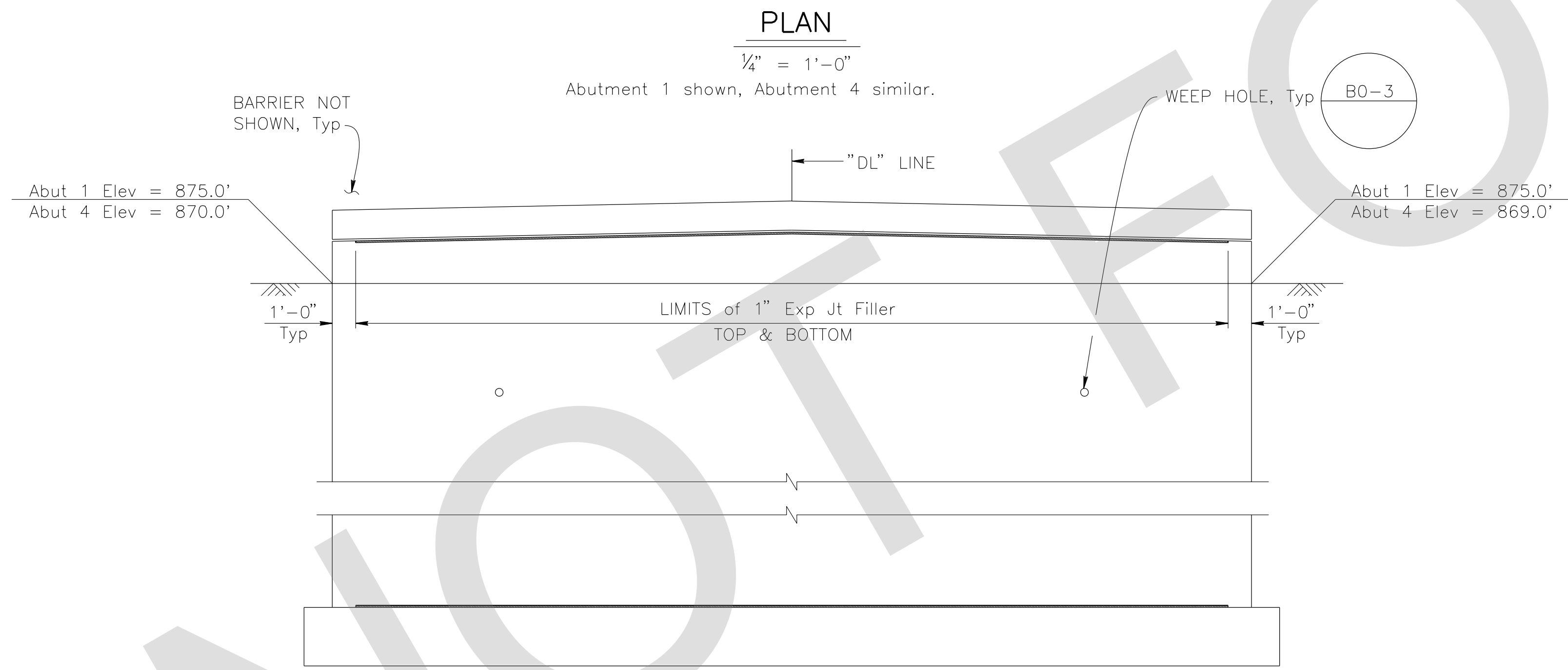
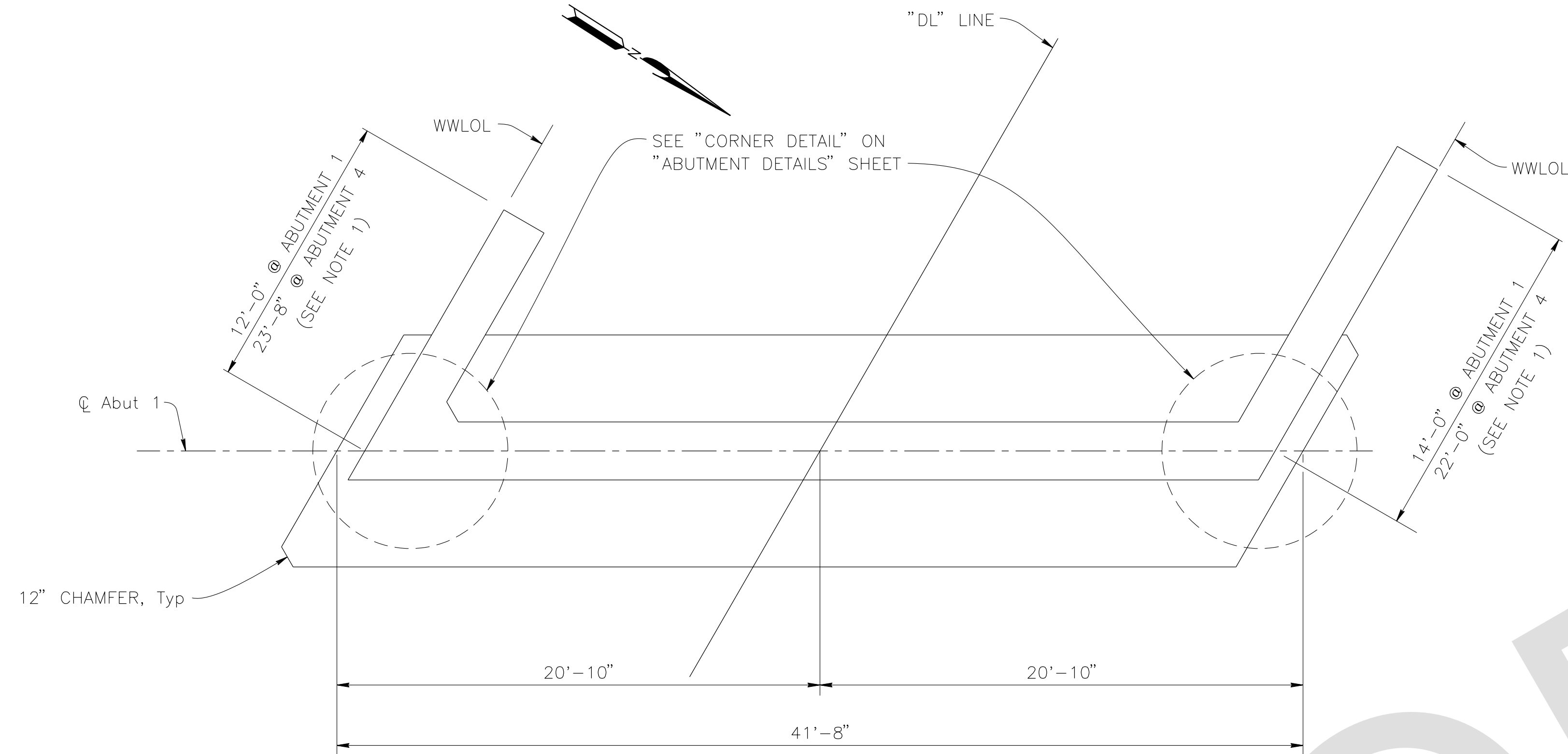
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J.L. 12145	H15220	AS NOTED	17	54

FILE NO. 586600 120

REVISIONS	DATE	APPR.

NOTE:

1. For Wingwall Details, see "ABUTMENT DETAILS" sheet.



PREPARED BY:

DE DOKKEN ENGINEERING
 110 BLUE RAVINE ROAD SUITE 200, FOLSOM CA. 916-858-0642
 Rosalyn S. Guggis 2/22/24
 ROSA GRIGGS, PROJECT ENGINEER DATE

MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		

FIELD CHANGES



SAN BERNARDINO COUNTY
 DEPARTMENT OF PUBLIC WORKS

DESIGNED BY: NO	DRAWN BY: AD	CHECKED BY: JR	RECOMMENDED BY: 06/05/2024 CHRIS NGUYEN, P.E. TRANSPORTATION DESIGN ENGINEERING MANAGER
APPROVED BY: 06/05/2024 NOEL MONDRAGON, P.E. SUPERVISING ENGINEER			APPROVED BY: 06/05/2024 MERVAT N. MIHALI, P.E. DEPUTY DIRECTOR

DOLA DITCH BRIDGE
 BRIDGE No. 54C0285
 (County No. 81)
 ABUTMENT LAYOUT

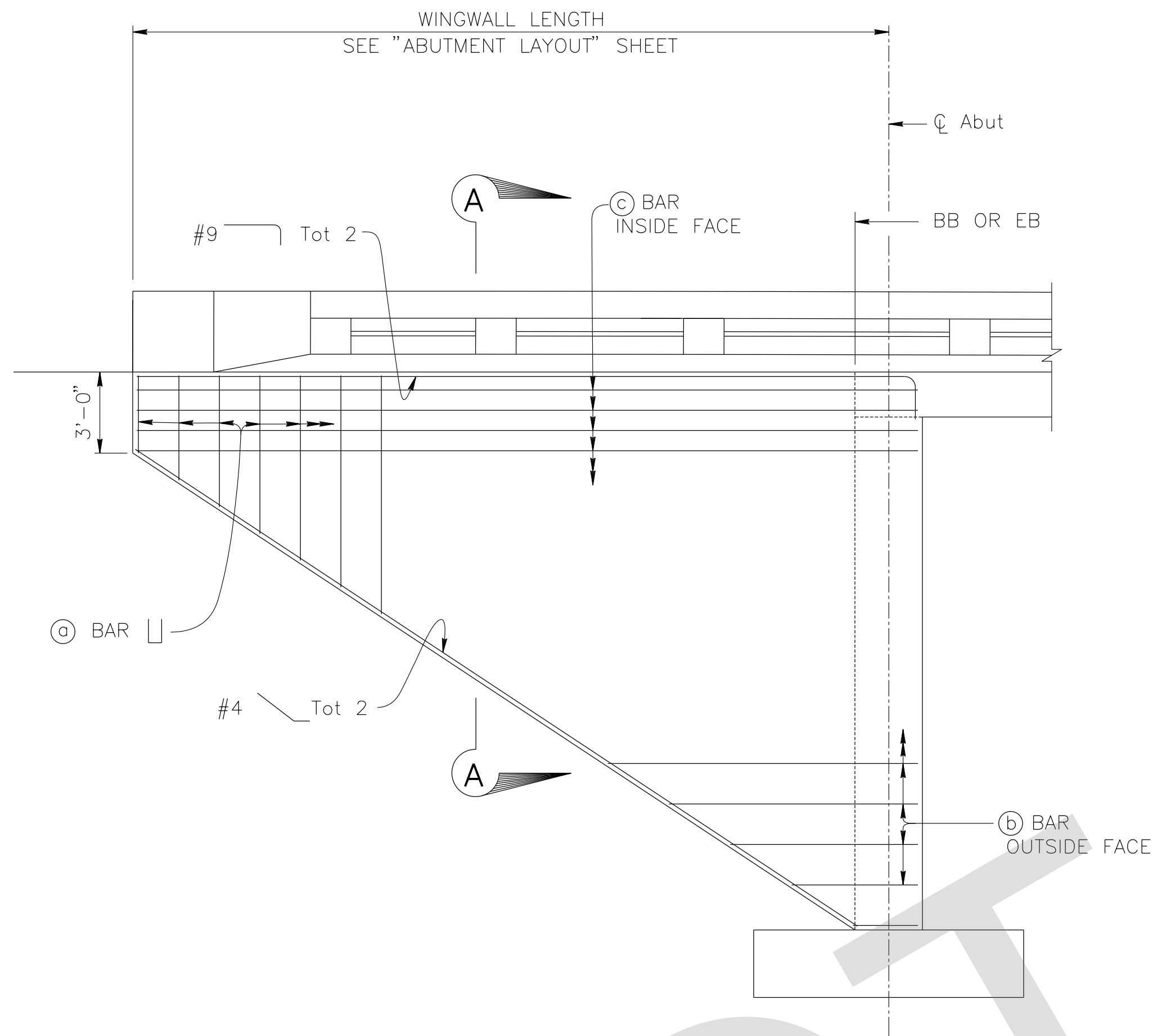
J.L. REF. J.L. 12145	W.D. NO. H15220	PLAN SCALE AS NOTED	SHT. NO. 18	TOT. SHTS. 54
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FILE NO. 586600 120

REVISIONS	DATE	APPR.

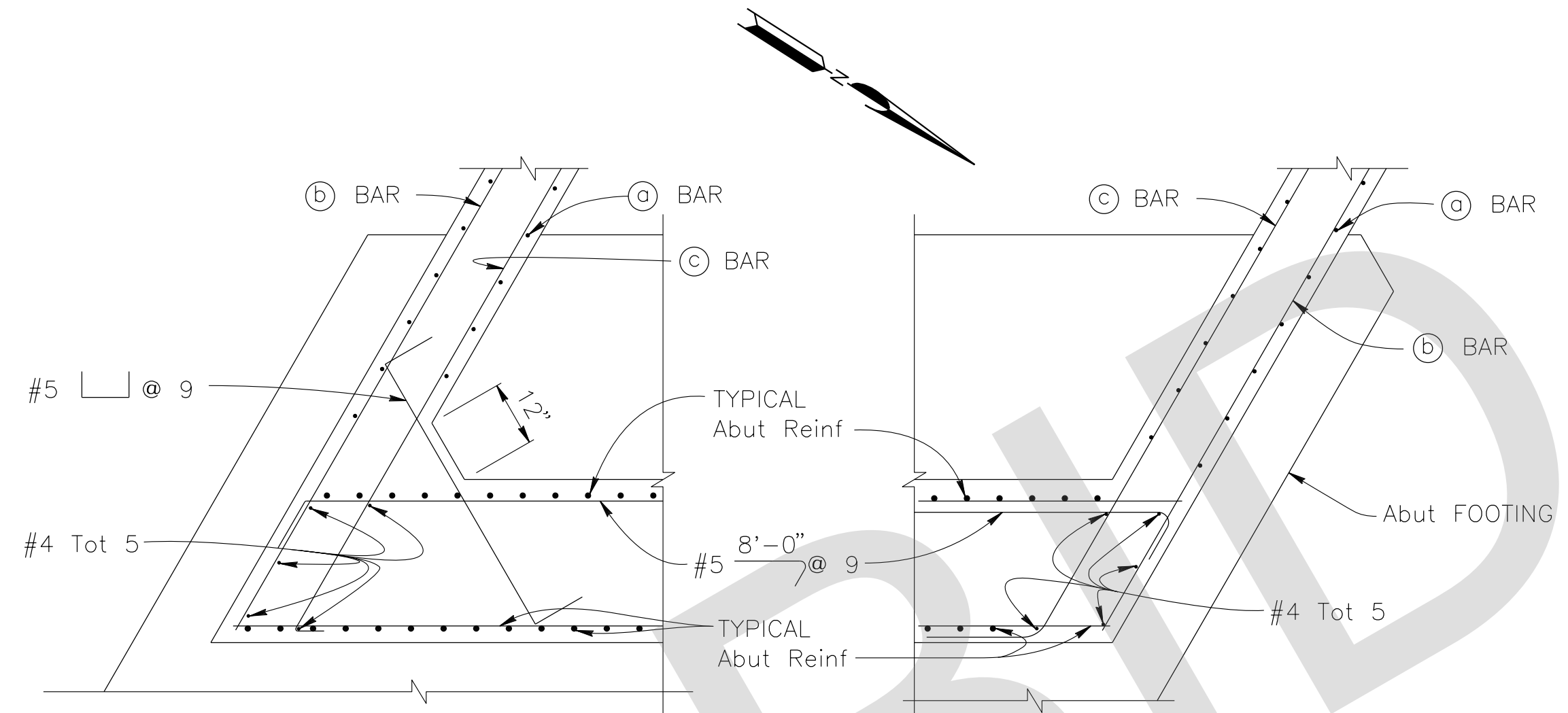
WINGWALL REINFORCEMENT TABLE

BAR	WINGWALL LENGTH			
	12'-0"	14'-0"	22'-0"	23'-8"
ⓐ	#4 @ 18	#4 @ 18	#4 @ 18	#4 @ 18
ⓑ	#4 @ 18	#4 @ 18	#4 @ 18	#4 @ 18
ⓒ	#5 @ 9	#6 @ 9	#9 @ 9	#9 @ 9
T	1'-0"	1'-0"	1'-0"	1'-0"



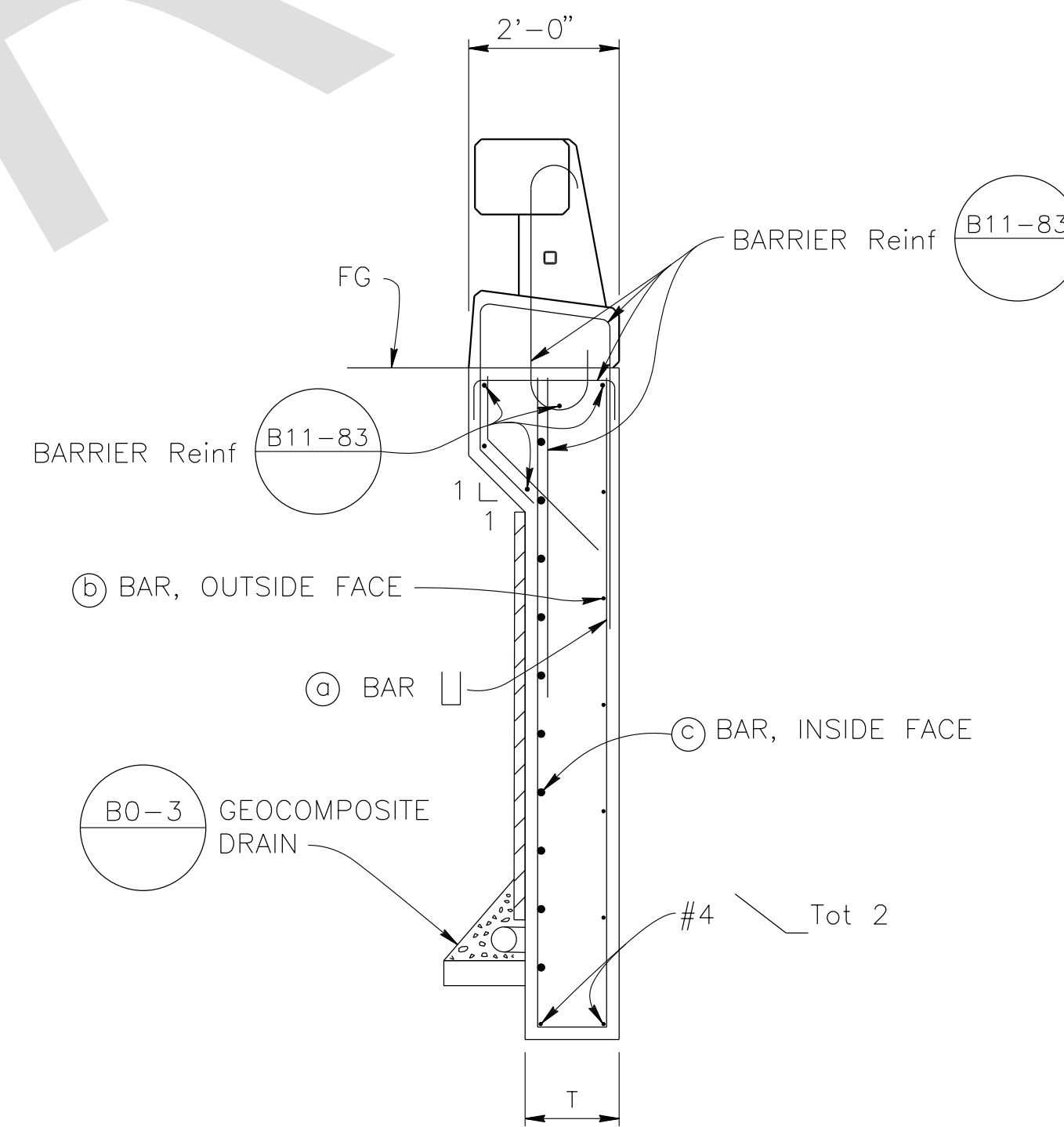
WINGWALL TYPICAL ELEVATION

1/4" = 1'-0"



CORNER DETAIL

1/2" = 1'-0"



SECTION A-A

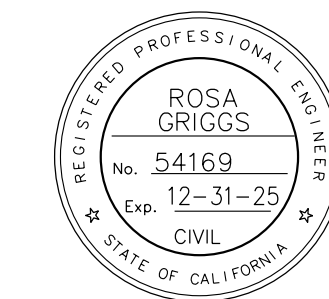
1/2" = 1'-0"

PREPARED BY:

DE DOKKEN ENGINEERING
 110 BLUE RAINE ROAD SUITE 200, FOLSOM CA. 916-858-0642
 Rosalyn S. Griggs 2/22/24
 ROSA GRIGGS, PROJECT ENGINEER

MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		

FIELD CHANGES



SAN BERNARDINO COUNTY
 DEPARTMENT OF PUBLIC WORKS

DESIGNED BY: NO	DRAWN BY: AD	CHECKED BY: JR	RECOMMENDED BY: <i>Chris Nguyen</i> 06/05/2024
APPROVED BY: <i>Noel Mondragon</i> 06/05/2024			DATE: 06/05/2024

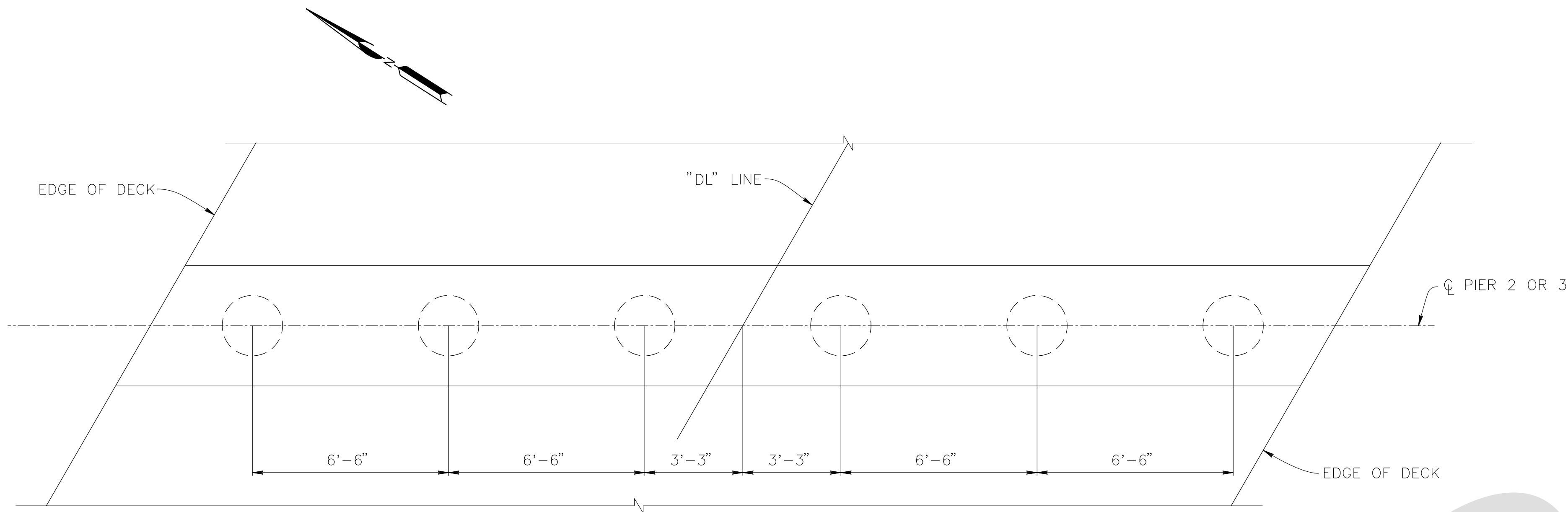
NOEL MONDRAGON, P.E. SUPERVISING ENGINEER
 MERVAT N. MIHAL, P.E. DEPUTY DIRECTOR

DOLA DITCH BRIDGE
 BRIDGE No. 54C0285
 (County No. 81)
 ABUTMENT DETAILS

J.L. REF. J.L. 12145	W.O. NO. H15220	PLAN SCALE AS NOTED	SHT. NO. 19	TOT. SHT'S. 54
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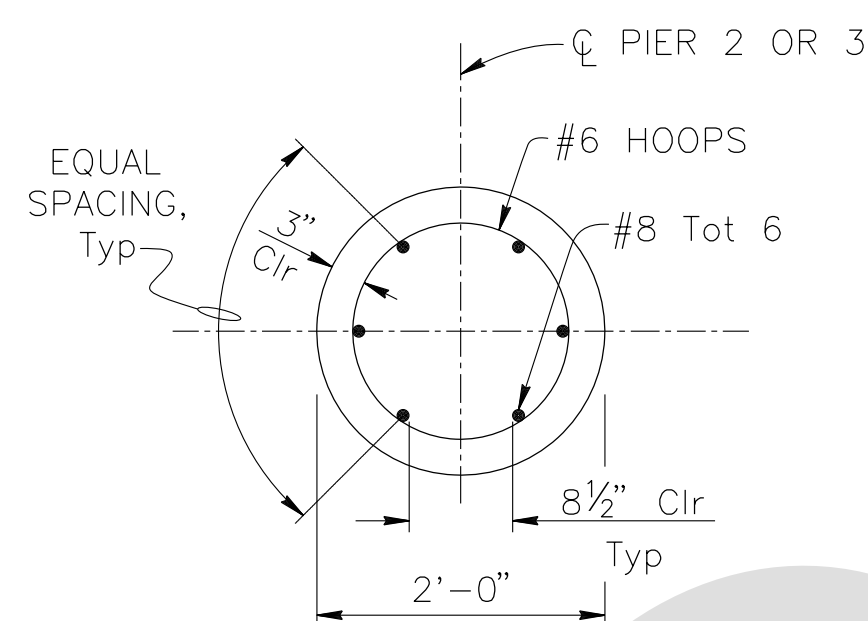
MARK	REVISIONS	DATE

FILE NO. 586600 120



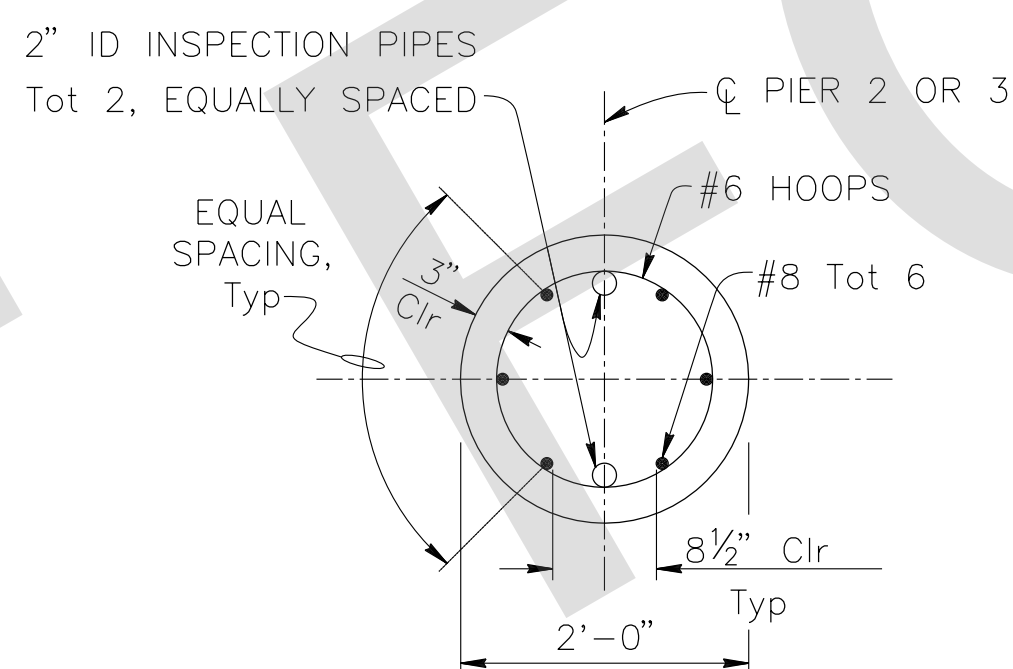
PLAN

3/8" = 1'-0"



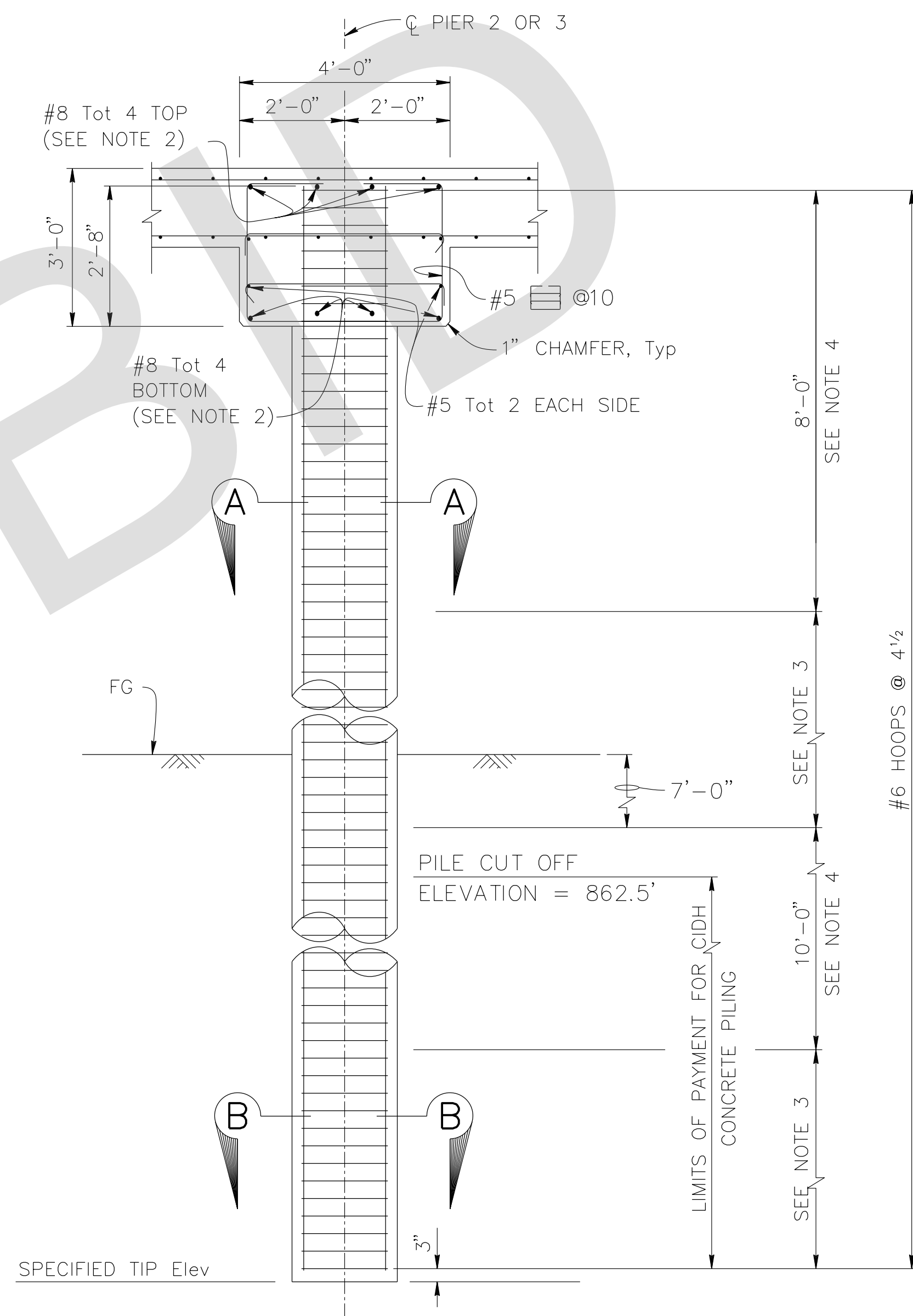
SECTION A-A

3/4" = 1'-0"



SECTION B-B

3/4" = 1'-0"



TYPICAL SECTION

1/2" = 1'-0"

NOTES:

1. All hoops must be ultimate butt weld splice continuous.
2. No splices in main cap reinforcement allowed.
3. Ultimate butt splice only in longitudinal reinforcement.
4. No splice in longitudinal reinforcement allowed.

PREPARED BY:

DE DOKKEN ENGINEERING
 110 BLUE RAVINE ROAD SUITE 200, FOLSOM CA. 916-858-0642
Rosall S. Griggs 2/22/24
 ROSA GRIGGS, PROJECT ENGINEER DATE

MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		

FIELD CHANGES



SAN BERNARDINO COUNTY
 DEPARTMENT OF PUBLIC WORKS

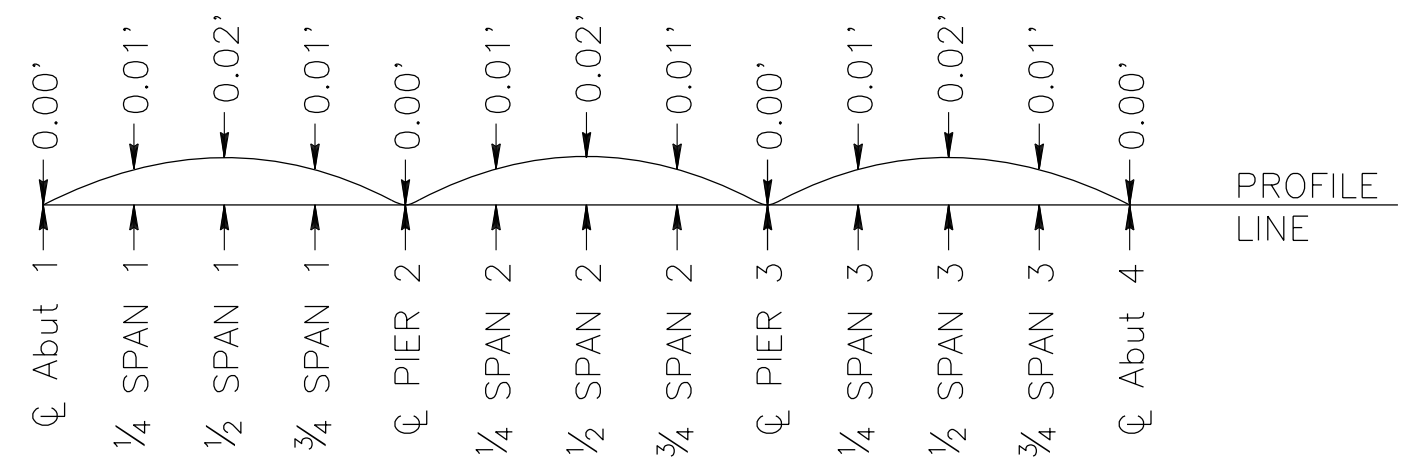
DESIGNED BY: NO	DRAWN BY: AD	CHECKED BY: JR	RECOMMENDED BY: CHRIS NGUYEN, P.E. TRANSPORTATION DESIGN ENGINEERING MANAGER 06/05/2024
APPROVED BY: NOEL MONDRAGON, P.E. SUPERVISING ENGINEER 06/05/2024			APPROVED BY: MERVAT N. MIKHAIL, P.E. DEPUTY DIRECTOR 06/05/2024

DOLA DITCH BRIDGE
 BRIDGE No. 54C0285
 (County No. 81)
 PIER LAYOUT

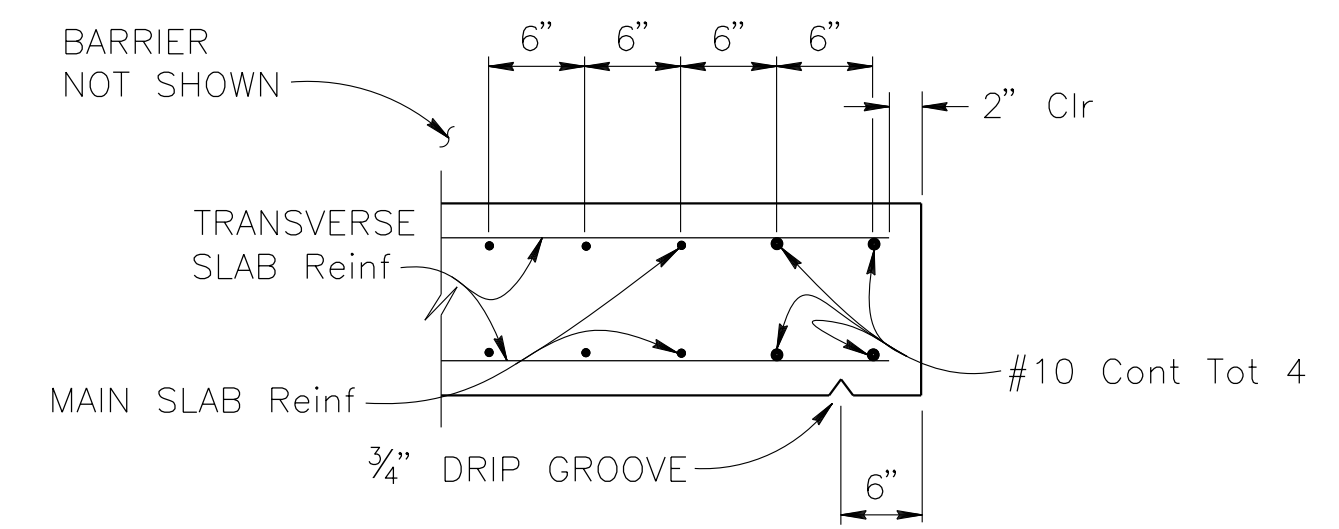
J.L. REF. J.L. 12145	W.D. NO. H15220	PLAN SCALE AS NOTED	SHT. NO. 20	TOT. SHTS. 54
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MARK	REVISIONS	DATE

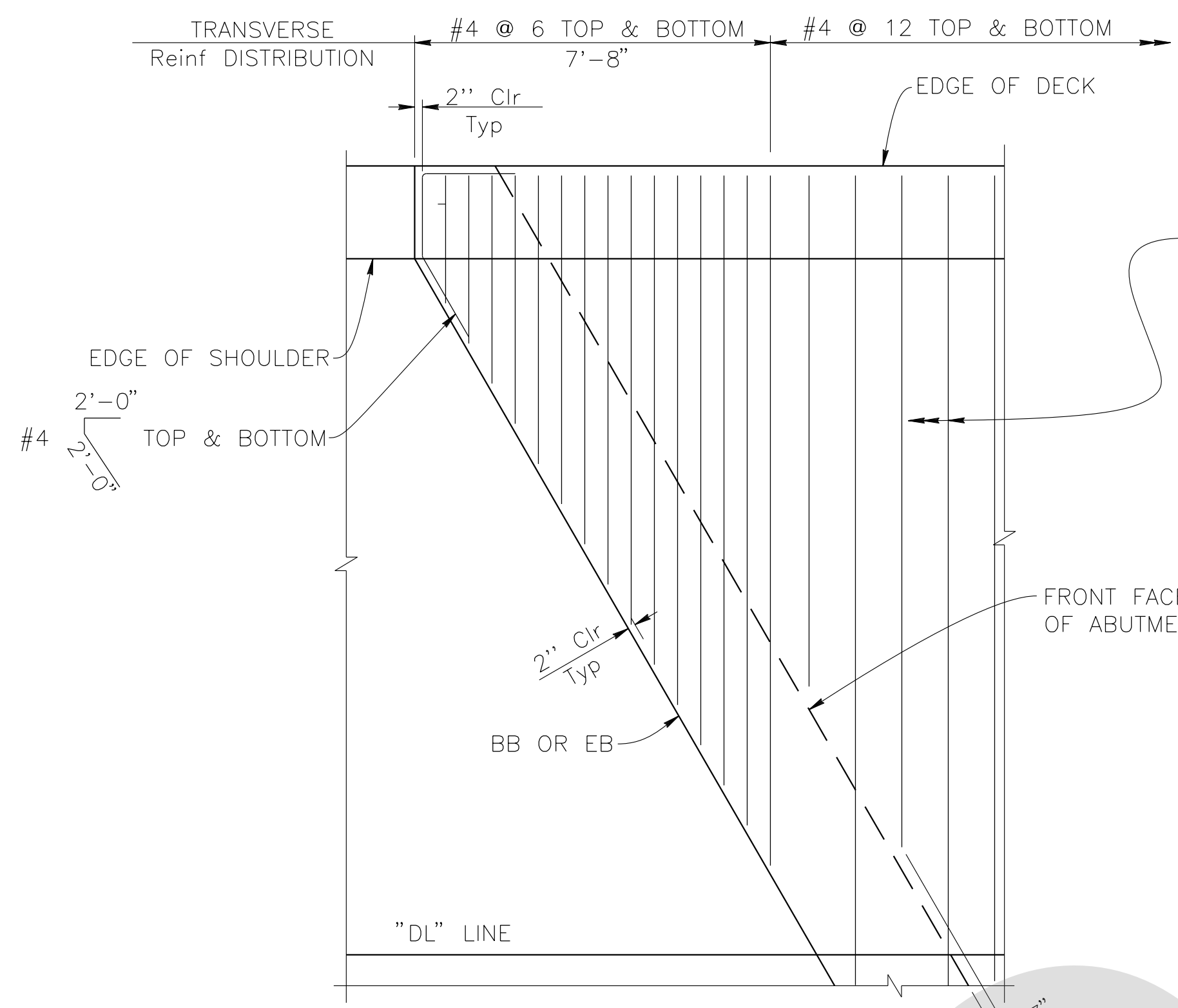
FILE NO. 586600 120



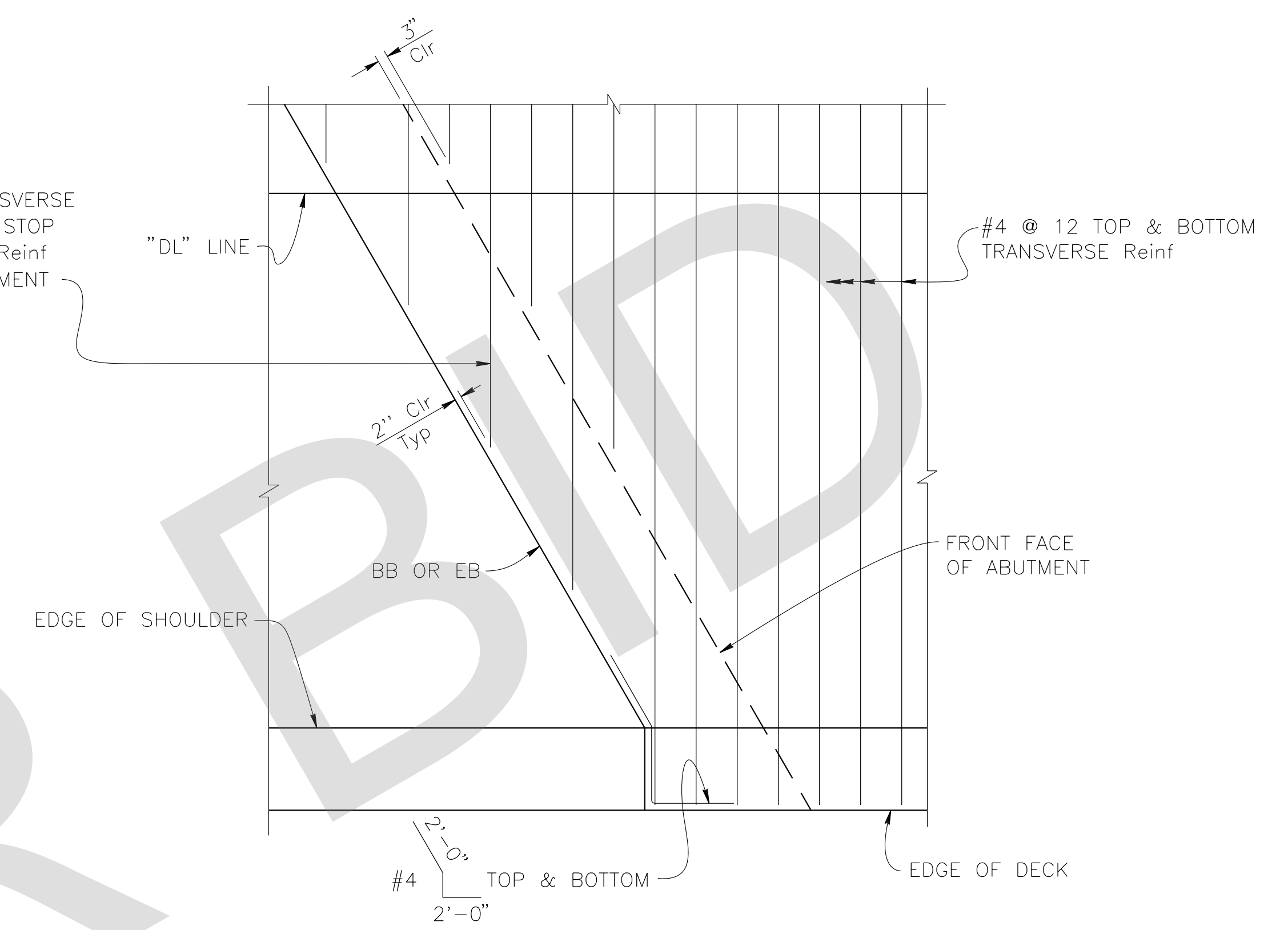
Does not include allowance for falsework settlement.
CAMBER DIAGRAM
 NO SCALE



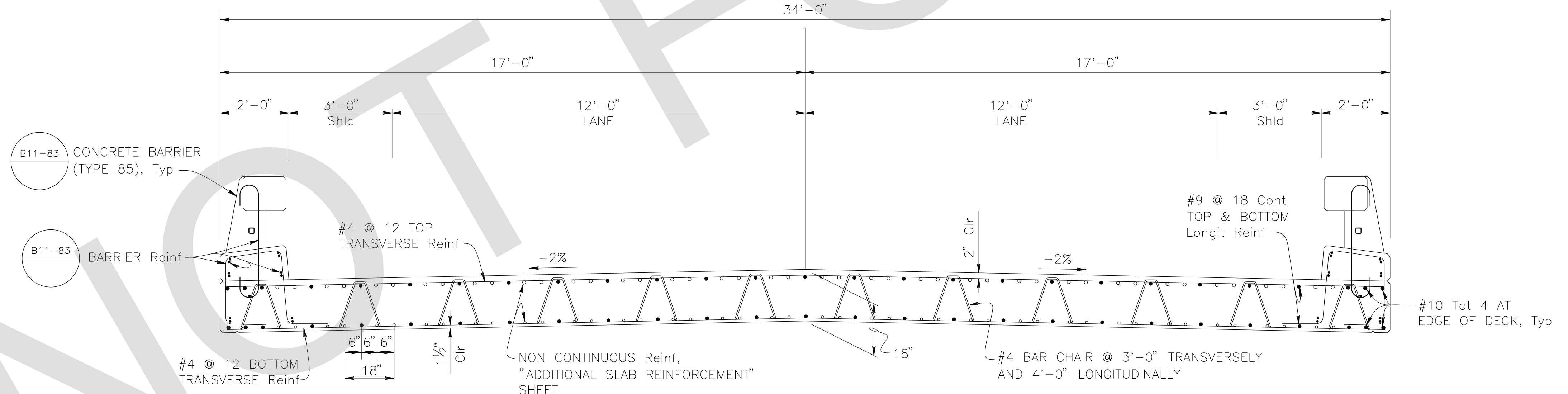
EDGE OF SLAB DETAILS
 NO SCALE



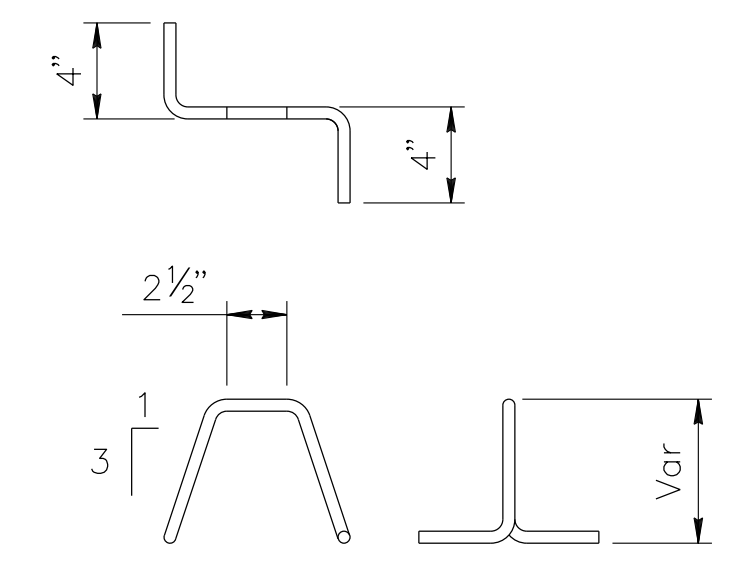
TRANSVERSE REINFORCEMENT ACUTE CORNER DETAIL
 $\frac{3}{8}'' = 1'-0''$



TRANSVERSE REINFORCEMENT OBTUSE CORNER DETAIL
 $\frac{3}{8}'' = 1'-0''$



TYPICAL SECTION
 $\frac{1}{2}'' = 1'-0''$



REINFORCEMENT CHAIR DETAIL
 NO SCALE

- NOTES:
1. Place longitudinal reinforcement parallel to ϕ Bridge.
 2. Place and space transverse reinforcement normal to ϕ Bridge.
 3. Falsework shall be released as soon as permitted by the specifications.

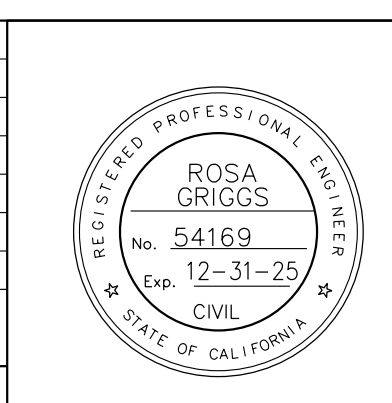
PREPARED BY:

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

Rosall S. Griggs 2/22/24
 ROSA GRIGGS, PROJECT ENGINEER DATE

MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		

FIELD CHANGES



SAN BERNARDINO COUNTY
 DEPARTMENT OF PUBLIC WORKS

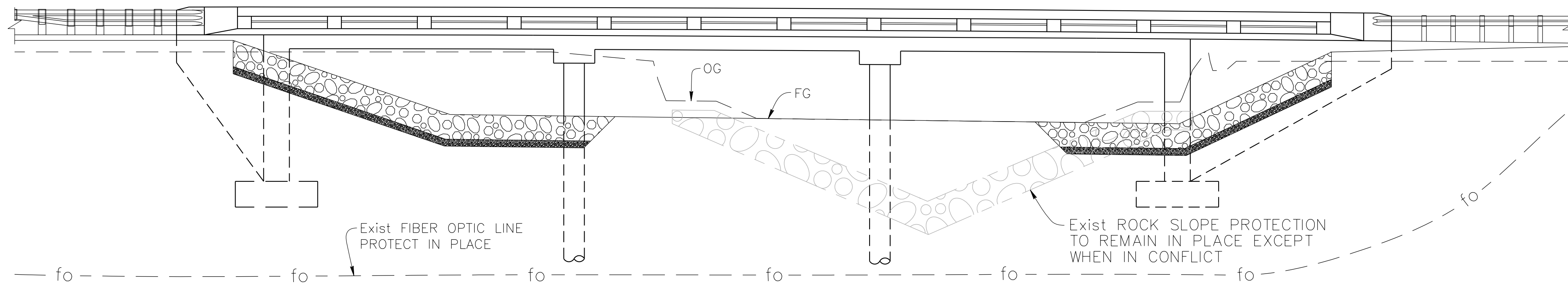
DESIGNED BY: NO	DRAWN BY: AD	CHECKED BY: JR	RECOMMENDED BY: CHRIS NGUYEN, P.E. TRANSPORTATION DESIGN ENGINEERING MANAGER
			DATE: 06/05/2024
APPROVED BY: NOEL MONDRAGON, P.E. SUPERVISING ENGINEER			DATE: 06/05/2024

DOLA DITCH BRIDGE
 BRIDGE No. 54C0285
 (County No. 81)
 TYPICAL SECTION

J.L. REF. J.L. 12145	W.D. NO. H15220	PLAN SCALE AS NOTED	SHT. NO. 21	TOT. SHT'S. 54
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FILE NO. 586600 120

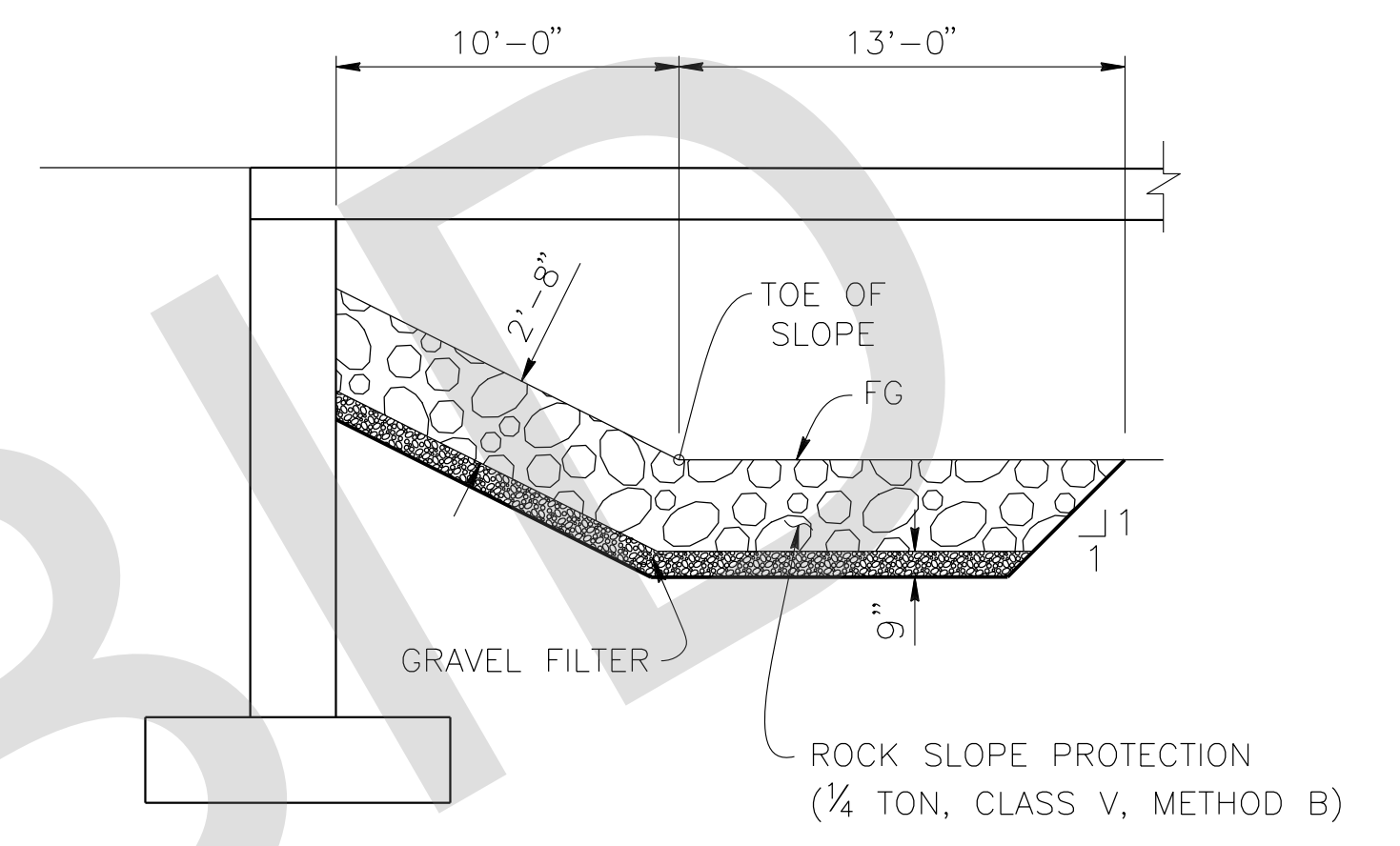
REVISIONS	DATE	APPR.



VIEW C-C

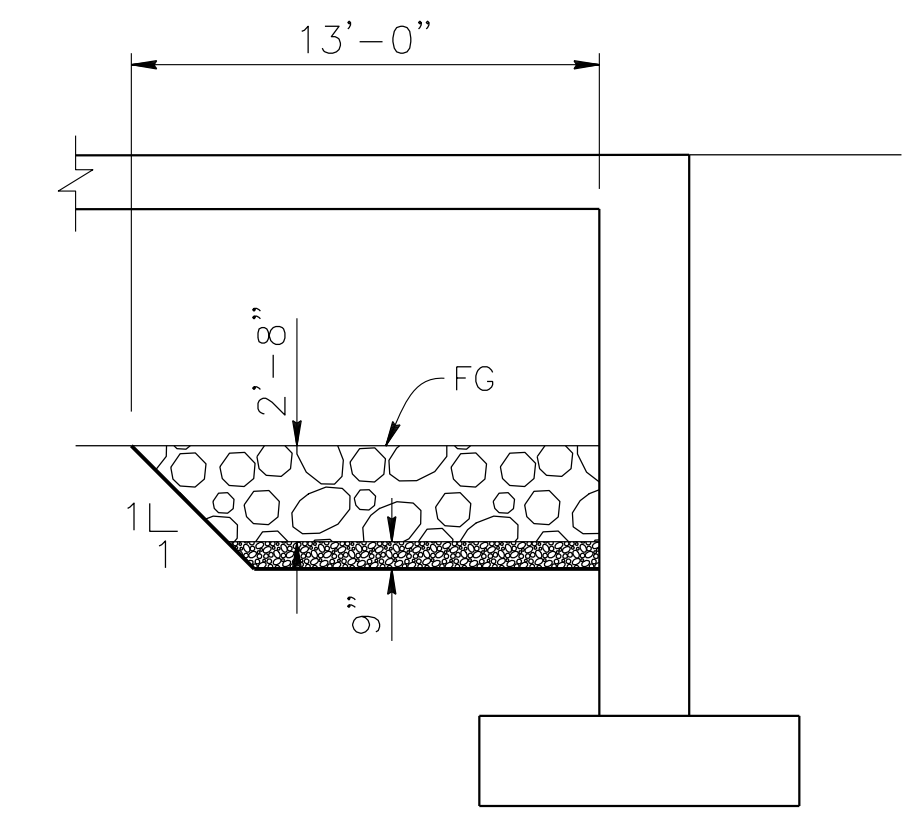
1/8" = 1'-0"

NOTE: For details not shown, see "SECTION A-A" and "SECTION B-B".



SECTION A-A

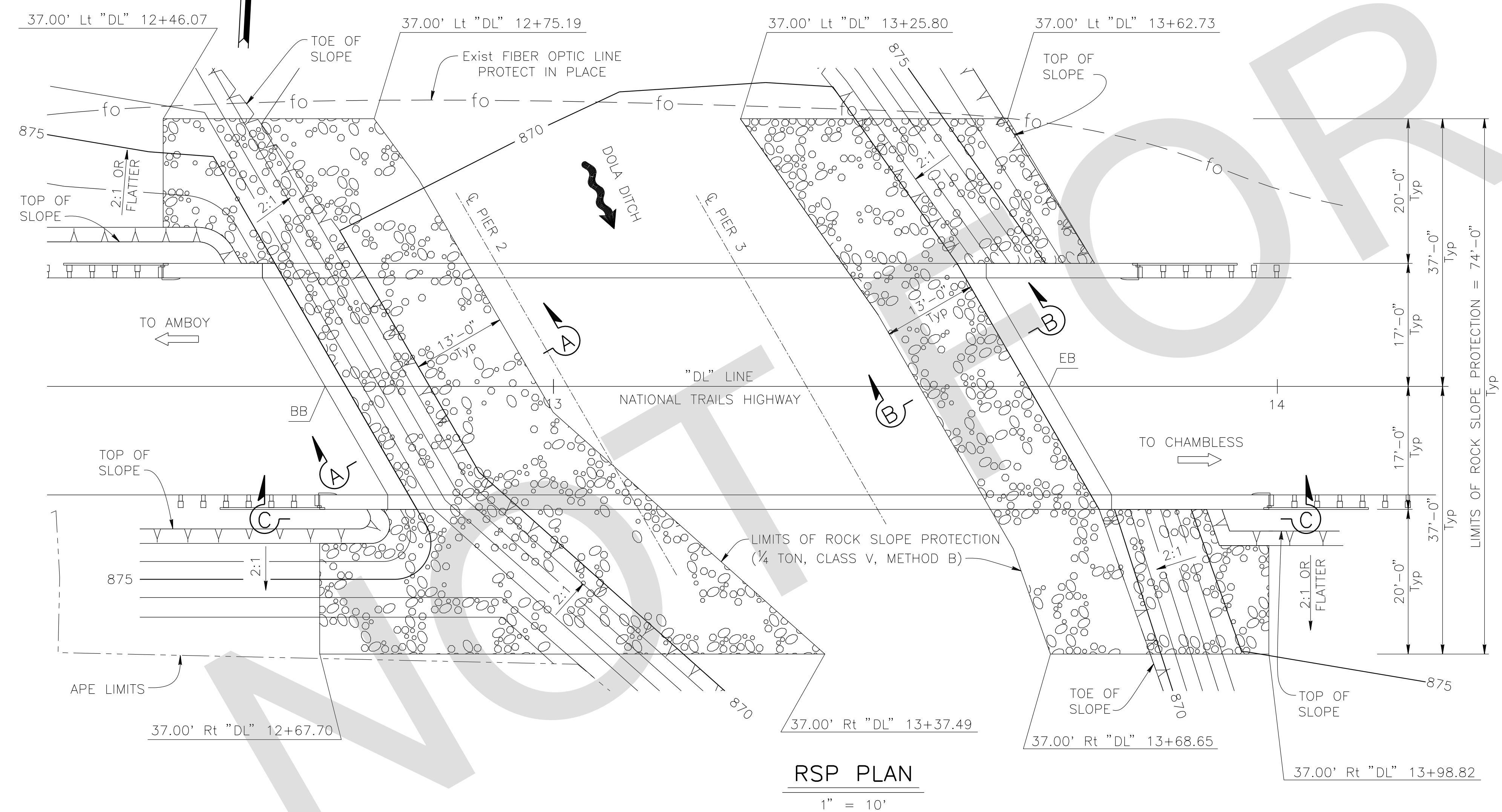
3/16" = 1'-0"



SECTION B-B

3/16" = 1'-0"

NOTE: For details not shown, see "SECTION A-A".



RSP PLAN

1" = 10'

REVISIONS	DATE	APPR.

FILE NO. 586600 120

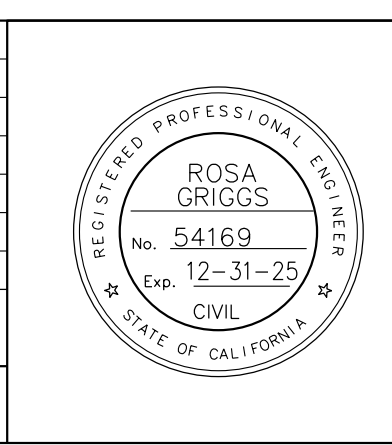
PREPARED BY:

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

Rosall J. Griggs 2/22/24
ROSA GRIGGS, PROJECT ENGINEER 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:
NO	AD	JR	
NOEL MONDRAGON, P.E. SUPERVISING ENGINEER	06/05/2024 DATE		

DOLA DITCH BRIDGE
BRIDGE No. 54C0285
(County No. 81)
ROCK SLOPE PROTECTION DETAILS

J.L. REF.	W.O. NO.	PLAN SCALE	SHT. NO.	TOT. SHT'S.
J.L. 12145	H15220	AS NOTED	23	54