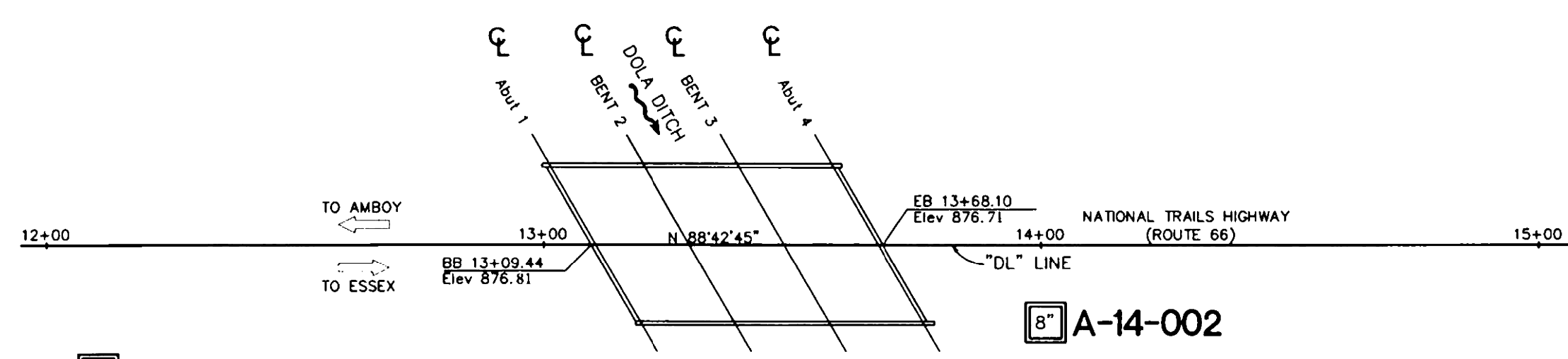


BENCHMARK:
D.O.T. CONCRETE "C" R/W MONUMENT AT STATION
396+83.39, 150 FEET LEFT OF THE CENTERLINE OF
NATIONAL TRAILS HIGHWAY (ROUTE 66) UP 0.50
FEET, PER CSFB 4234/1; HELD ELEVATION = 877.02
FEET, NAVD 88. SURVEYED BY GLENN O. SNOKE ON
1/31/2013.



PLAN
SCALE: 1"=20'

AS BUILT
NO CORRECTIONS TO THIS PLAN
BY: TADQ, M.A.S., P.E.
10-16-17

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	66	86.04	1	3

April 4, 2016
REGISTERED CIVIL ENGINEER DATE

PETER SKOPEK
No. GE 2635
Exp 06/30/2017
CIVIL
STATE OF CALIFORNIA

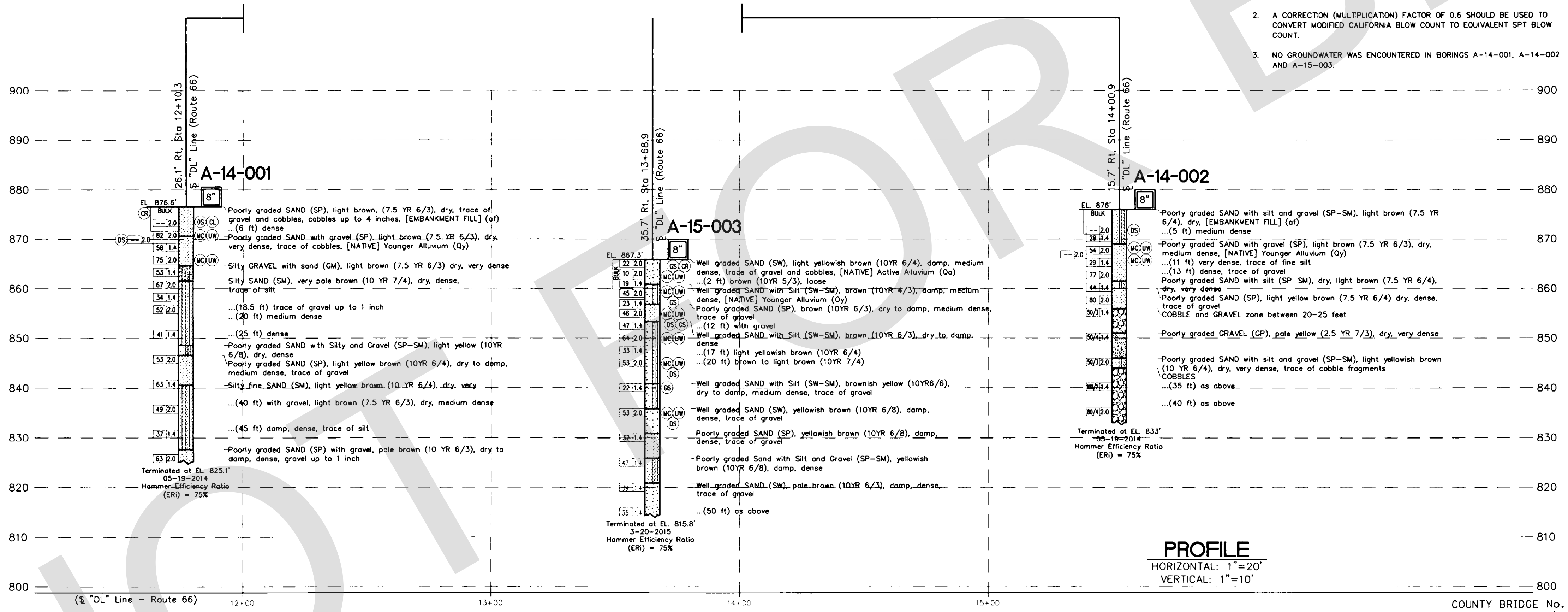
PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.

TETRA TECH BAS GEOSCENCE
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765

THIS LOG SHEET WAS PREPARED IN ACCORDANCE WITH THE CALTRANS SOIL & ROCK LOGGING, CLASSIFICATION, AND PRESENTATION MANUAL (2010)

- NOTES:
1. AUTOMATIC TRIP HAMMER SYSTEM CONSISTS OF A HAMMER WEIGHT OF 140 POUNDS FALLING A DISTANCE OF 30 INCHES WHICH WAS USED TO ADVANCE THE DRIVE SAMPLERS.
 2. A CORRECTION (MULTIPLICATION) FACTOR OF 0.6 SHOULD BE USED TO CONVERT MODIFIED CALIFORNIA BLOW COUNT TO EQUIVALENT SPT BLOW COUNT.
 3. NO GROUNDWATER WAS ENCOUNTERED IN BORINGS A-14-001, A-14-002 AND A-15-003.



PROFILE
HORIZONTAL: 1"=20'
VERTICAL: 1"=10'

COUNTY BRIDGE No. 81
FEDERAL PROJECT No.: BRLO-5954(093)

PETER SKOPEK, G.E. DESIGN OVERSIGHT	DRAWN BY CDS/J.B. DEPOORTER	A.H.M. FIELD INVESTIGATION BY	PREPARED FOR THE SAN BERNARDINO COUNTY TRANSPORTATION DESIGN DIVISION	BIGGS CARDOSA ASSOCIATES, Inc. MICHAEL A. THOMAS PROJECT ENGINEER - BRIDGE DESIGNER	BRIDGE NO. 54C-0285	DOLA DITCH BRIDGE	
SIGN OFF DATE	CHECKED BY FERNANDO CUENCA, P.E.	DATE: MAY 19, 2014 AND MARCH 20, 2015			POST MILES 86.04	LOG OF TEST BORINGS No. 1	
CS LOTB SOIL LEGEND SHEET 1 (ENGLISH) (REV. 03/14/12)			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: PROJECT NUMBER & PHASE:	CONTRACT NO.: 08-924806L	DISREGARD PRINTS BEARING EARLIER REVISION DATES	SHEET OF 38 39

PREPARED BY:

DE DOKKEN ENGINEERING
110 BLUE RAINE ROAD SUITE 200, FOLSOM CA 916-858-0642
Rosall J. Guzzo 1/12/24
ROSA GRIGGS, PROJECT ENGINEER

MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		

FIELD CHANGES



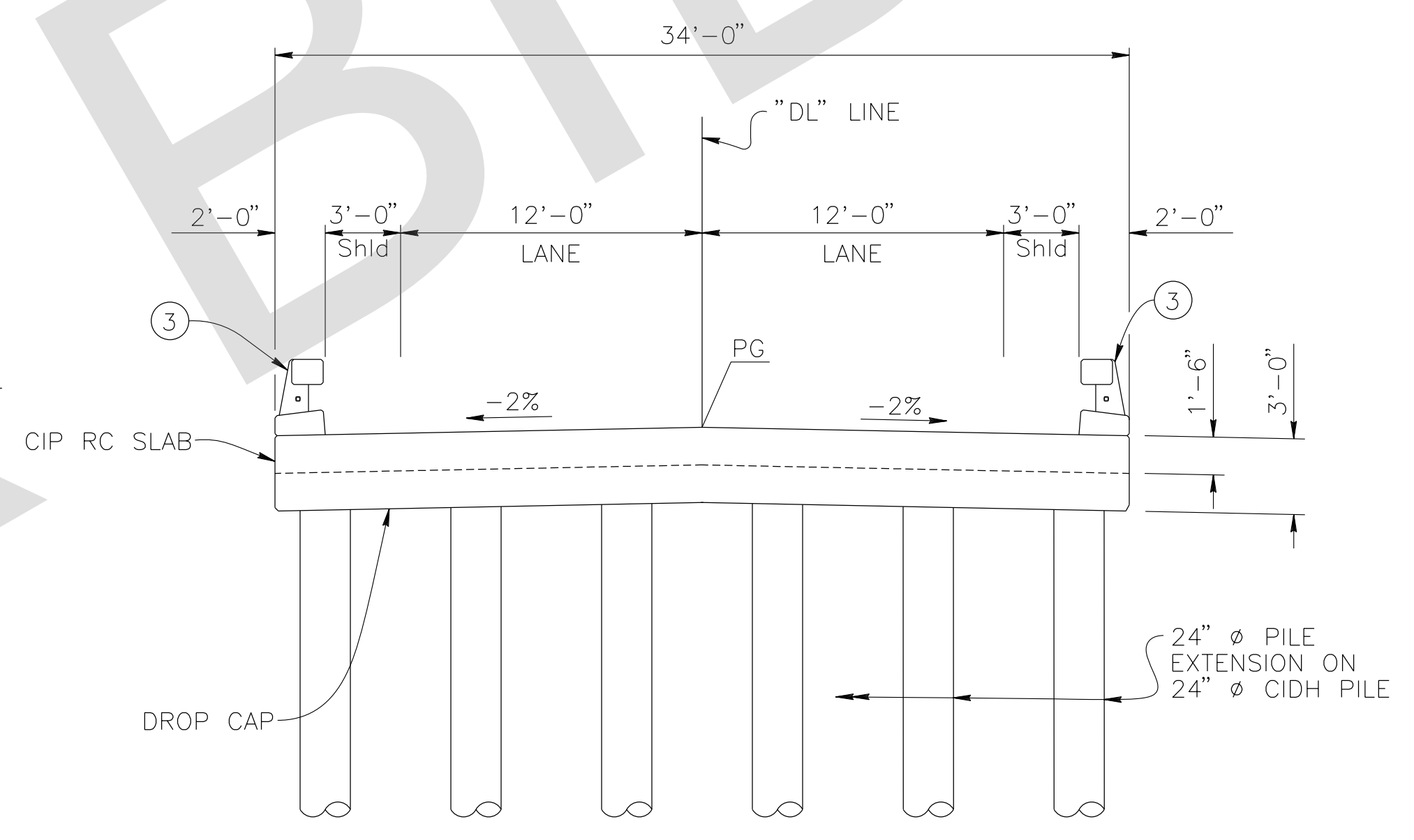
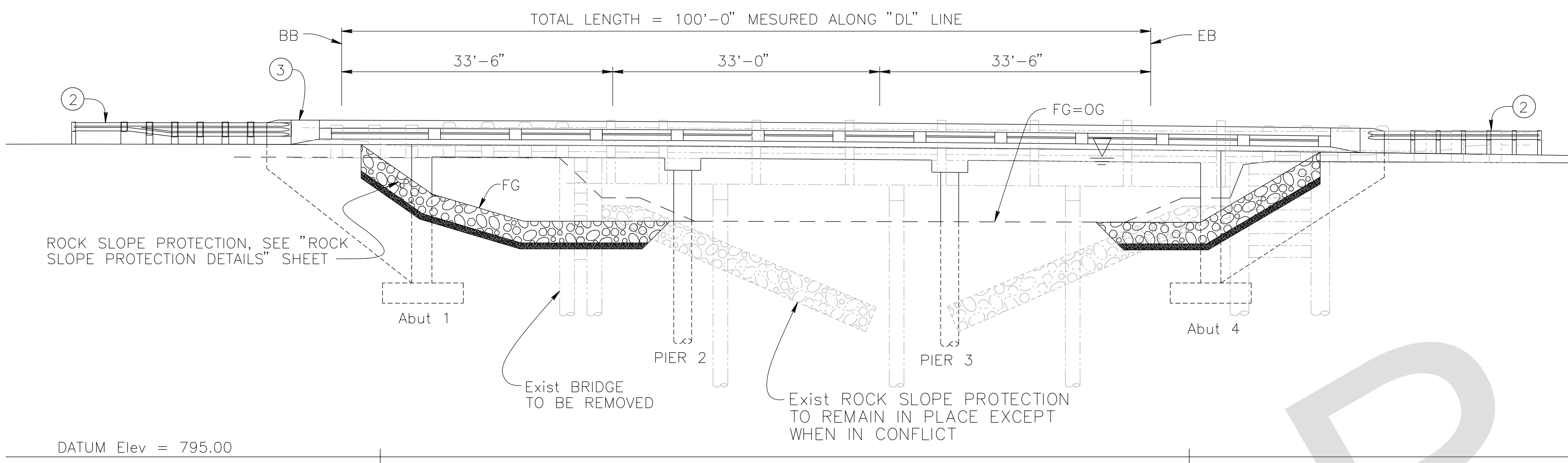
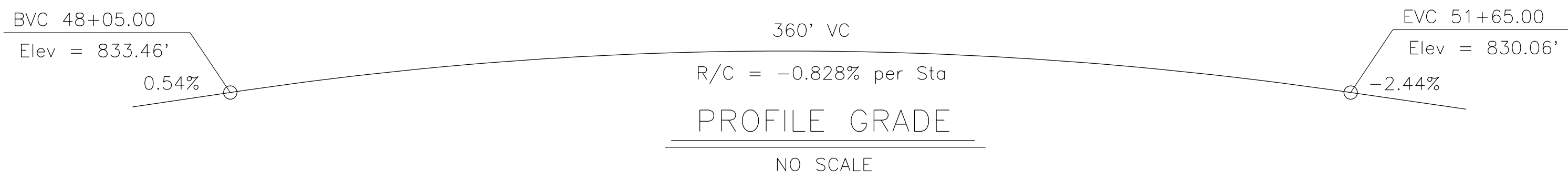
SAN BERNARDINO COUNTY
DEPARTMENT OF PUBLIC WORKS

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

DOLA DITCH BRIDGE
BRIDGE No. 54C0285
(County No. 81)
LOG OF TEST BORINGS

J.L. REF.	W.O. NO.	PLAN SCALE	SHT. NO.	TOT. SHT'S.
J.L. 12145	H15220	AS NOTED	24	54

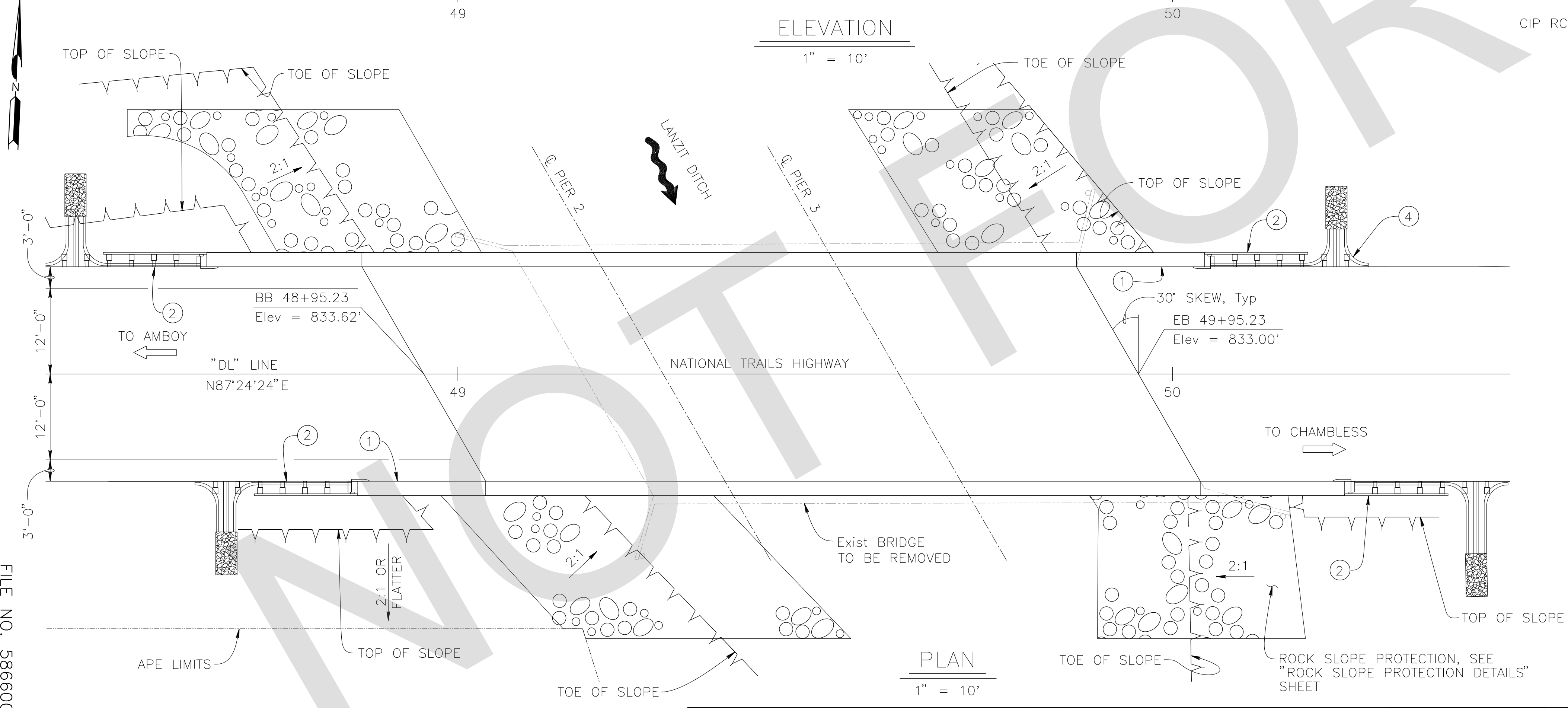
FILE NO. 586600 120



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

- NOTES:
- For "INDEX TO PLANS", "GENERAL NOTES", "STANDARD PLANS" list and "QUANTITIES", see "INDEX TO PLANS" sheet.
 - Point "LANZIT DITCH BRIDGE" "Br. No. 54C0286" Year Constructed
 - MGS, see Roadway Plans L-2 sheet.
 - Concrete Barrier (Type 85). To be painted white.
 - HMA overside drain with rock slope protection, Typ See Roadway Plans.

- LEGEND:
- Water Surface Elevation. For "HYDROLOGIC SUMMARY" table, see "FOUNDATION PLAN" sheet.
 - Existing Structure



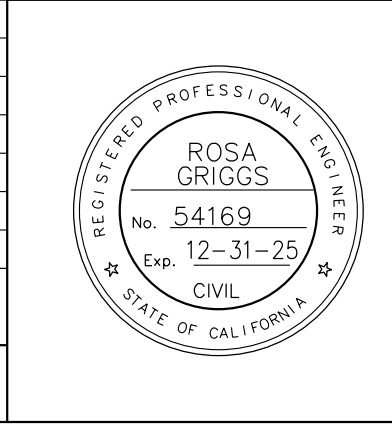
PLAN
1" = 10'

PREPARED BY:

DE DOKKEN ENGINEERING
110 BLUE RAVINE ROAD SUITE 200, FOLSOM CA. 916-858-0642
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:
NO	AD	JR	Chris Nguyen, P.E. 06/05/2024 DATE
			APPROVED BY:
			Mervat N. Mikhail, P.E. 06/05/2024 DATE

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

LANZIT DITCH BRIDGE
BRIDGE No. 54C0286
(County No. 82)
GENERAL PLAN

J.L. REF.	W.D. NO.	PLAN SCALE	SHT. NO.	TOT. SHT'S.
J.L. 12145	H15220	AS NOTED	25	54

REVISIONS	DATE	APPR.

FILE NO. 586600 120

GENERAL NOTES LOAD AND RESISTANCE FACTOR DESIGN

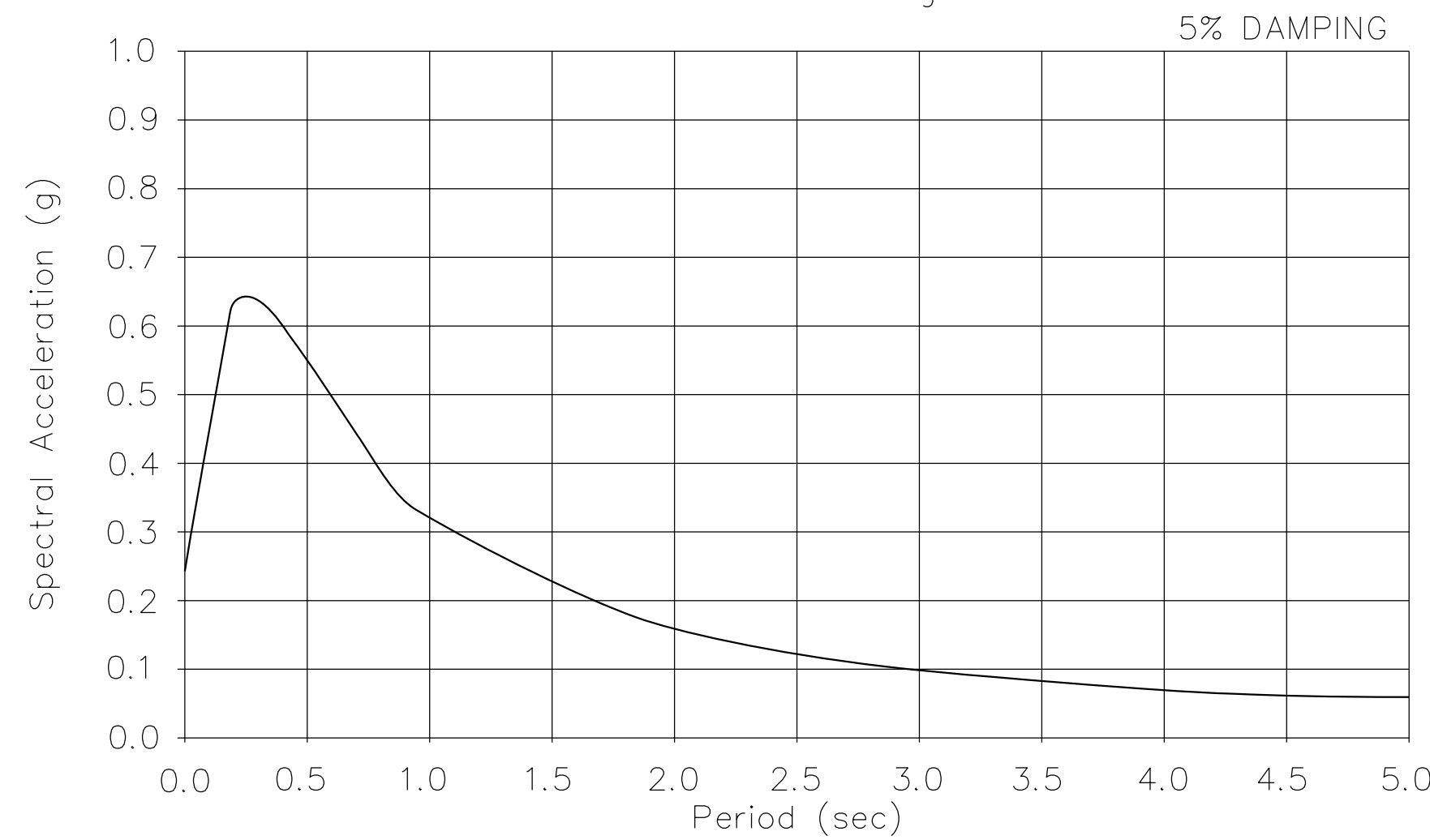
DESIGN: AASHTO LRFD Bridge Design Specifications, 8th Edition with California Amendments, preface dated January 2017

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

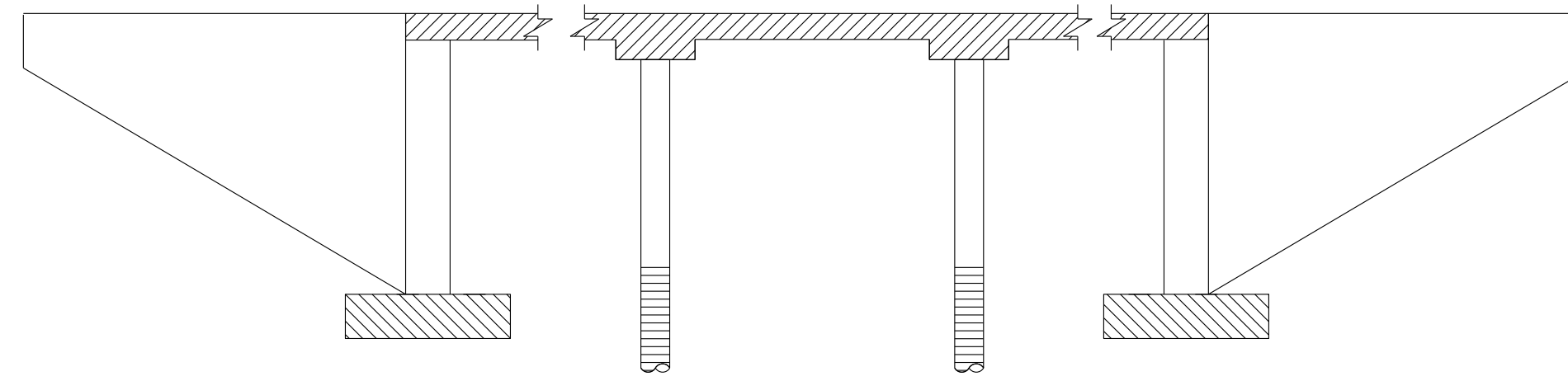


ARS CURVE
No Scale

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
BO-1	BRIDGE DETAILS
BO-3	BRIDGE DETAILS
BO-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

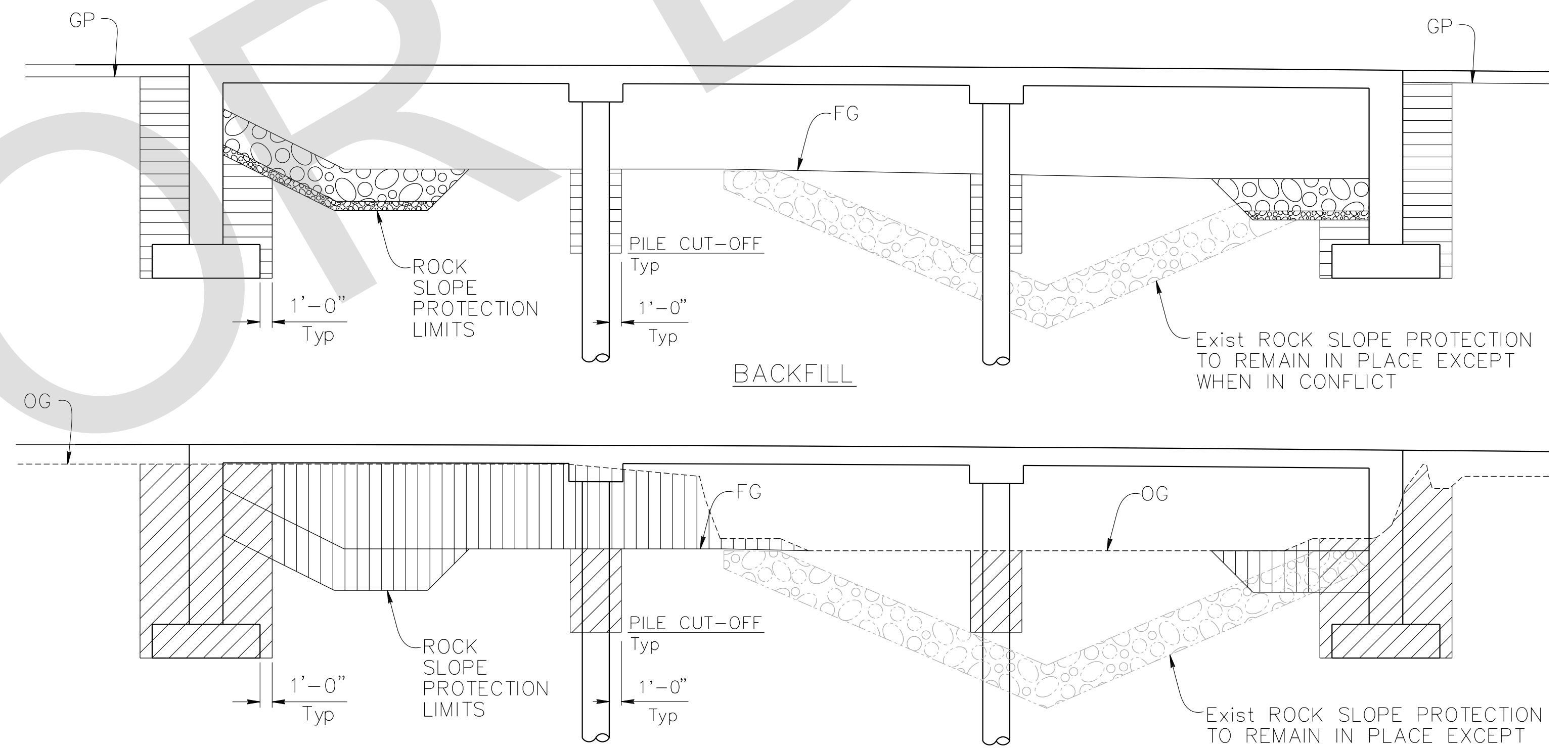


LEGEND:

- 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

LIMITS OF PAYMENT OF STRUCTURE EXCAVATION AND BACKFILL

No Scale

LEGEND:

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

QUANTITIES

ITEM	QUANTITY	UNIT
STRUCTURE EXCAVATION (BRIDGE)	754	CY
STRUCTURE BACKFILL (BRIDGE)	424	CY
24" CAST-IN-DRILLED-HOLE CONCRETE PILING	618	LF
STRUCTURAL CONCRETE, BRIDGE FOOTING	78	CY
STRUCTURAL CONCRETE, BRIDGE	165	CY
STRUCTURAL CONCRETE, BRIDGE (POLYMER FIBER)	207	CY
BAR REINFORCING STEEL (BRIDGE)	118,777	LB
BAR REINFORCING STEEL (GALVANIZED)	1,838	LB
BRIDGE REMOVAL	1	LS
ROCK SLOPE PROTECTION (1/4 TON, CLASS V, METHOD B)	360	CY
GRAVEL FILTER	92	CY
CONCRETE BARRIER (TYPE 85)	284	LF

INDEX TO PLANS

SHEET No.	TITLE
25	GENERAL PLAN
26	INDEX TO PLANS
27	DECK CONTOURS
28	FOUNDATION PLAN
29	ABUTMENT LAYOUT
30	ABUTMENT DETAILS
31	PIER LAYOUT
32	TYPICAL SECTION
33	ADDITIONAL SLAB REINFORCEMENT
34	ROCK SLOPE PROTECTION DETAILS
35	LOG OF TEST BORINGS

PREPARED BY:

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

MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		

FIELD CHANGES



SAN BERNARDINO COUNTY
DEPARTMENT OF PUBLIC WORKS

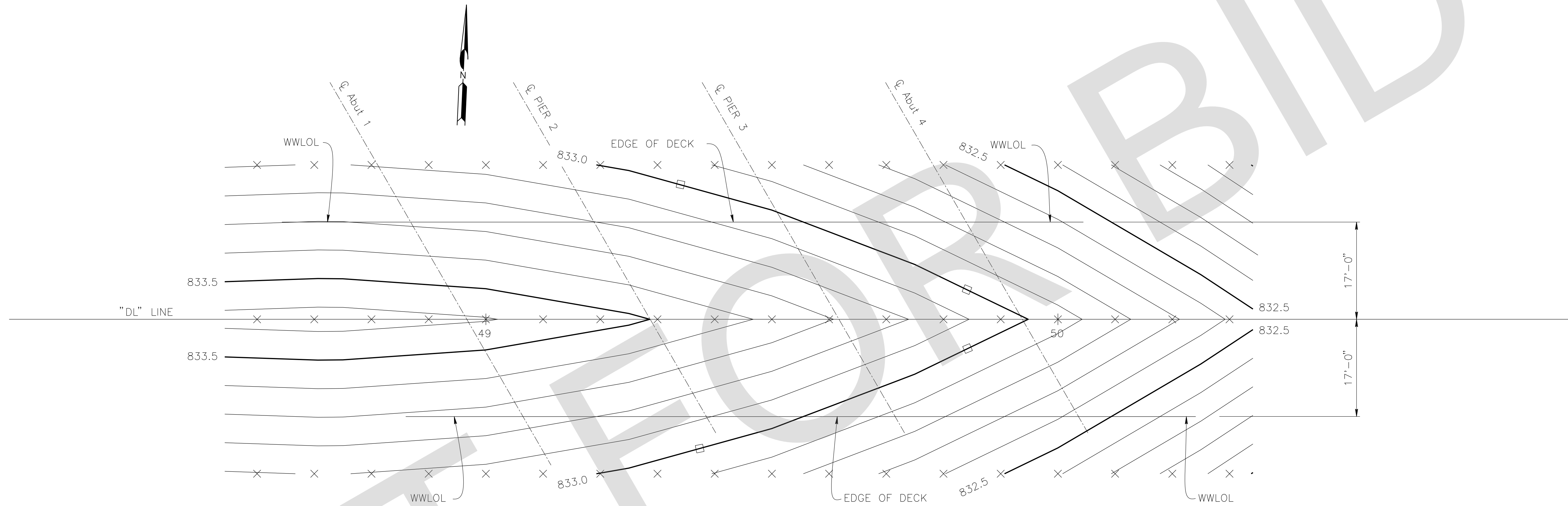
DESIGNED BY: NO	DRAWN BY: AD	CHECKED BY: JR	RECOMMENDED BY: <i>Chris Nguyen</i> 06/05/2024
			DATE: 06/05/2024
			APPROVED BY: <i>Noel Mondragon</i> 06/05/2024
			DATE: 06/05/2024

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

LANZIT DITCH BRIDGE
BRIDGE No. 54C0286
(County No. 82)
INDEX TO PLANS

J.L. REF. J.L. 12145	W.D. NO. H15220	PLAN SCALE AS NOTED	SHT. NO. 26	TOT. SHTS. 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

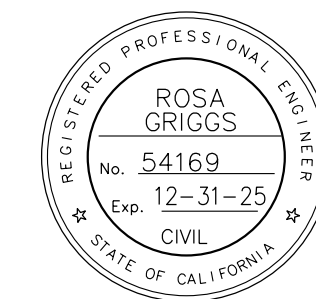
1" = 10'

PREPARED BY:

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

LANZIT DITCH BRIDGE
BRIDGE No. 54C0286
(County No. 82)
DECK CONTOURS

J.L. REF.	W.D. NO.	PLAN SCALE	SHT. NO.	TOT. SHT'S.
J.L. 12145	H15220	AS NOTED	27	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	821.06	4.56
PIER 2	821.06	4.56
PIER 3	821.06	4.56
Abut 4	821.06	4.56

NOTE:
1. The contractor shall verify all existing utilities prior to new construction.

LEGEND:
XXX.X Bottom of footing elevation (ft)
○ 24" ø CIDH Pile

HYDROLOGIC SUMMARY		
Drainage Area: 16,853 acres		
	Design Flood	Base Flood
Frequency	50-yr	100-yr
Discharge	4020 cfs	4545 cfs
Water Surface Elevation at Bridge	831.42 ft	832.14 ft

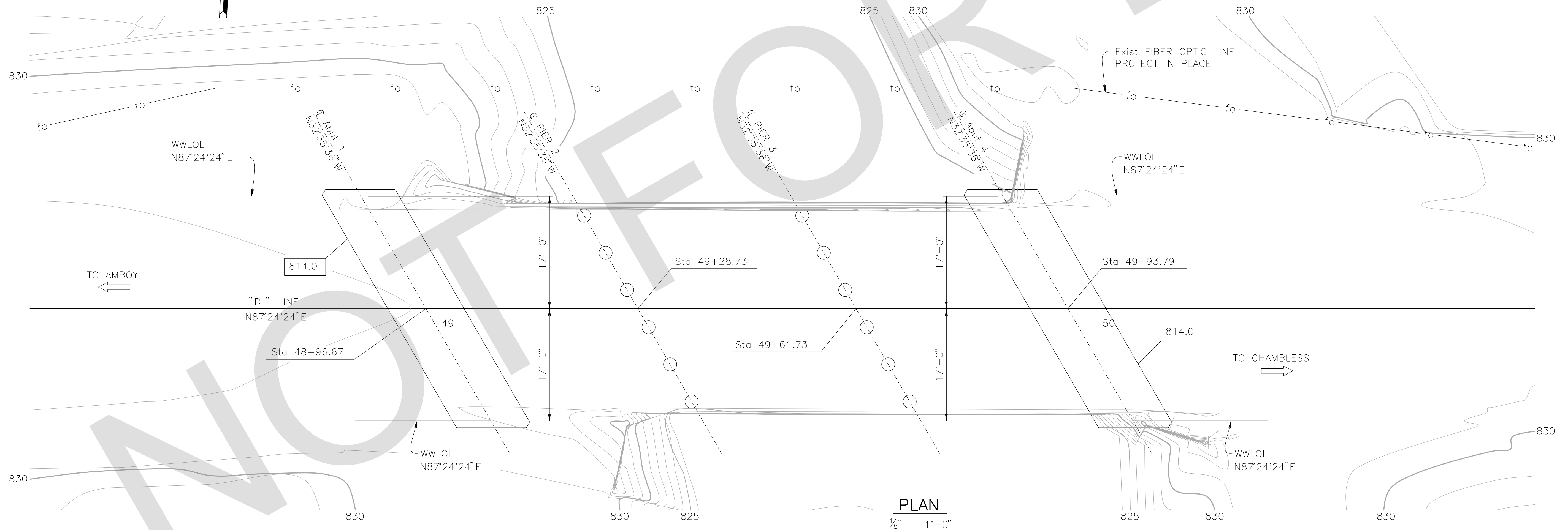
Flood plain data are based upon information available when the plans were prepared and are shown to meet federal requirements. The accuracy of said information is not warranted by the State and interested or affected parties should make their own investigation.

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	763.5(a) 806.5(c) 785.0(d)	763.5
PIER 3	24" CIDH	316	N/A	766.5(a) 806.5(c) 785.0(d)	766.5

NOTES:
1. Design tip elevations for Abutments are controlled by: (a) Compression, (b) Tension (c) Settlement and (d) Lateral Load.
2. The CIDH Specified Tip Elevation shall not be raised.
3. 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	3.9	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 RAVINE ROAD SUITE 200, FOLSOM CA. 916-858-0642
Rosa Griggs, Project Engineer
2/22/24 DATE

MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		

FIELD CHANGES



SAN BERNARDINO COUNTY
DEPARTMENT OF PUBLIC WORKS

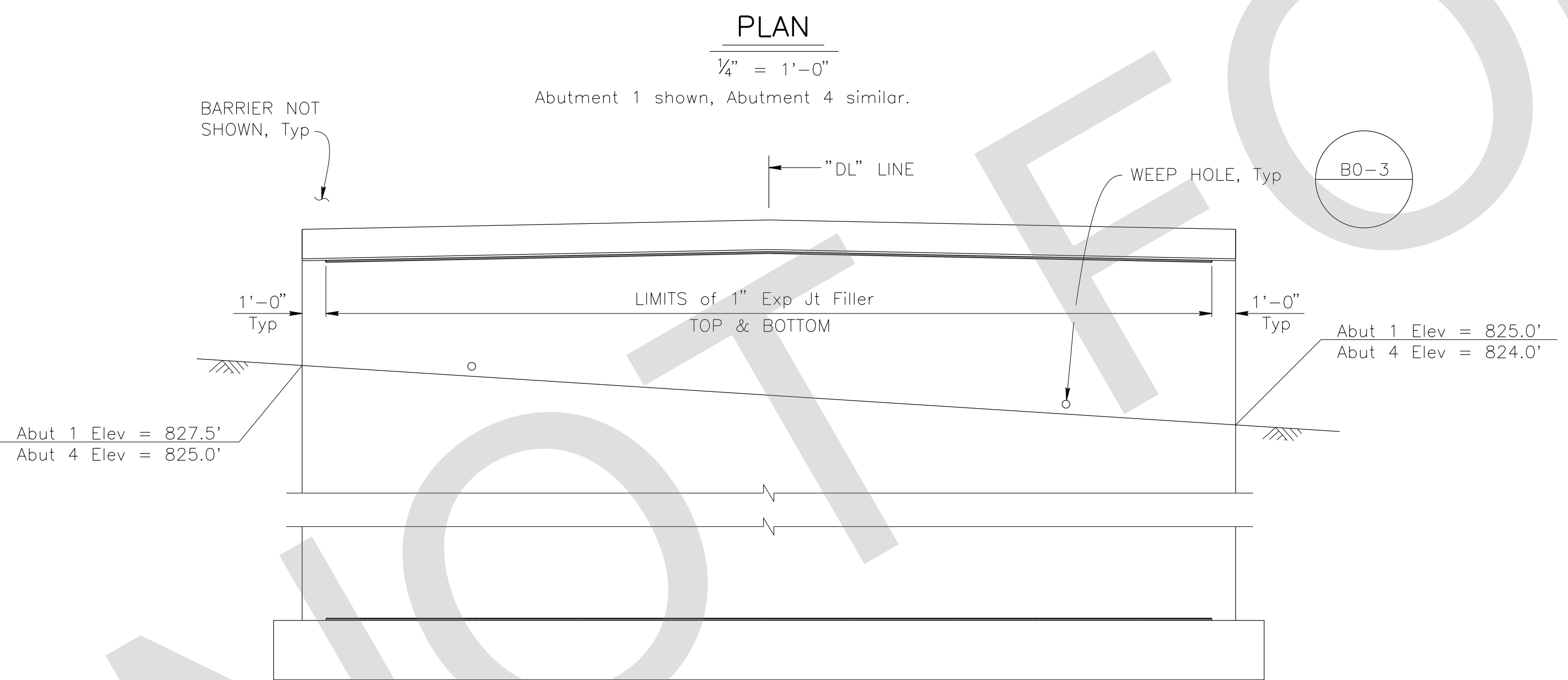
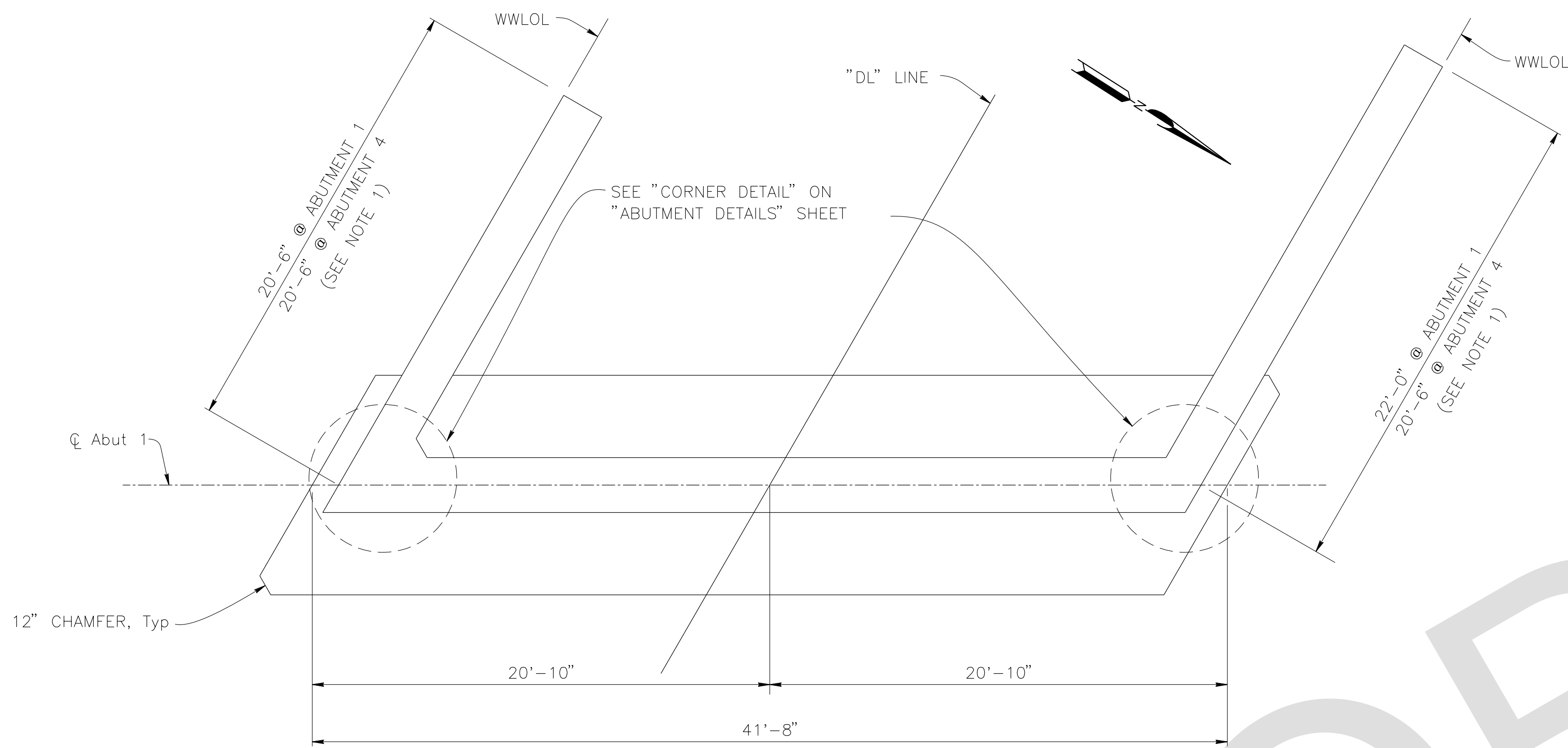
DESIGNED BY: NO	DRAWN BY: AD	CHECKED BY: JR	RECOMMENDED BY: Chris Nguyen, P.E., TRANSPORTATION DESIGN ENGINEERING MANAGER, 06/05/2024 DATE
APPROVED BY: Noel Mondragon, P.E., SUPERVISING ENGINEER, 06/05/2024 DATE			APPROVED BY: Mervat N. Mikhail, P.E., DEPUTY DIRECTOR, 06/05/2024 DATE

LANZIT DITCH BRIDGE
BRIDGE No. 54C0286
(County No. 82)
FOUNDATION PLAN

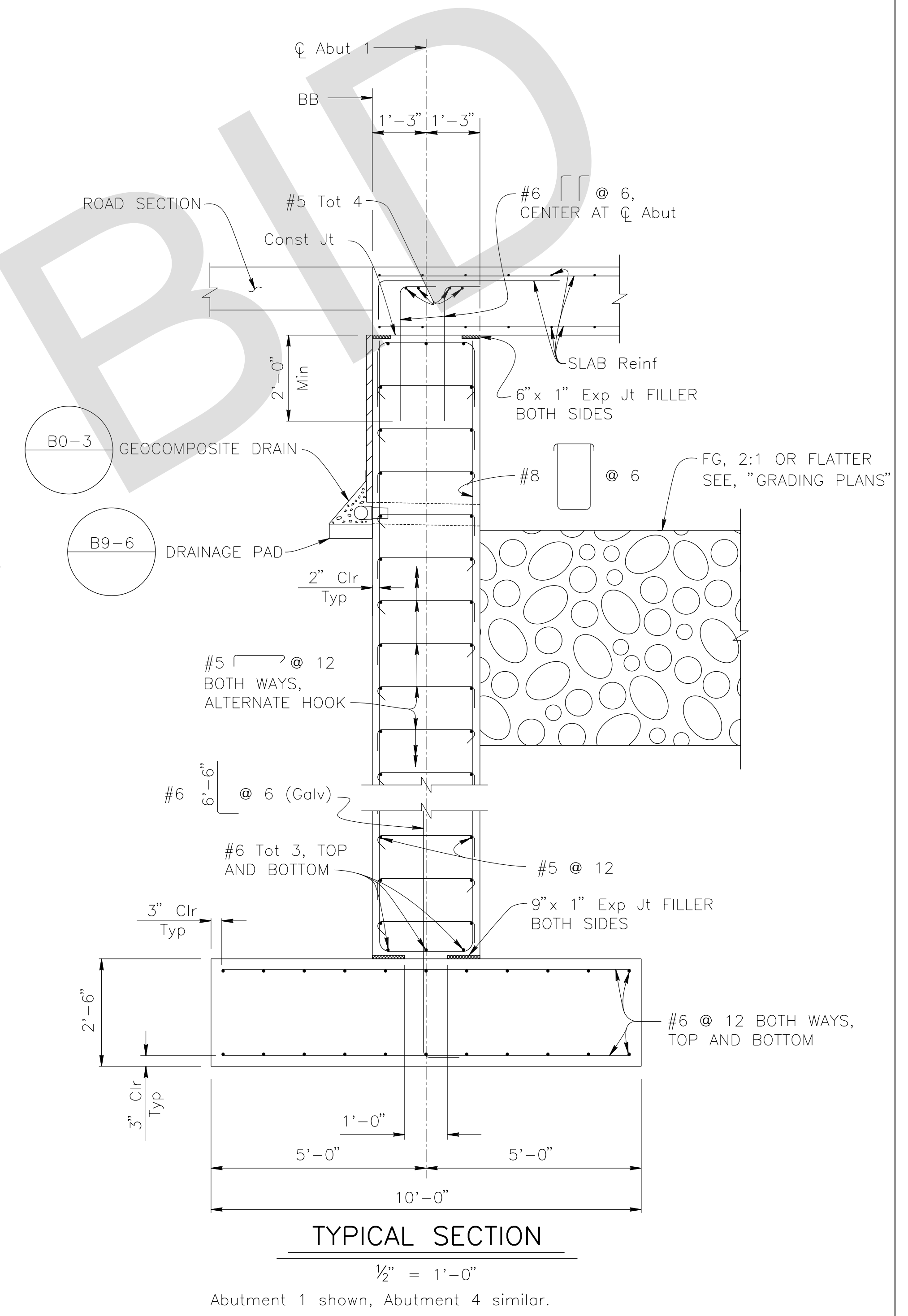
J.L. REF. J.L. 12145	W.D. NO. H15220	PLAN SCALE AS NOTED	SHT. NO. 28	TOT. SHT'S. 54
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REVISIONS	DATE	APPR.

FILE NO. 586600 120



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



MARK	REVISIONS	DATE

FILE NO. 586600 120

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

FIELD CHANGES



SAN BERNARDINO COUNTY
DEPARTMENT OF PUBLIC WORKS

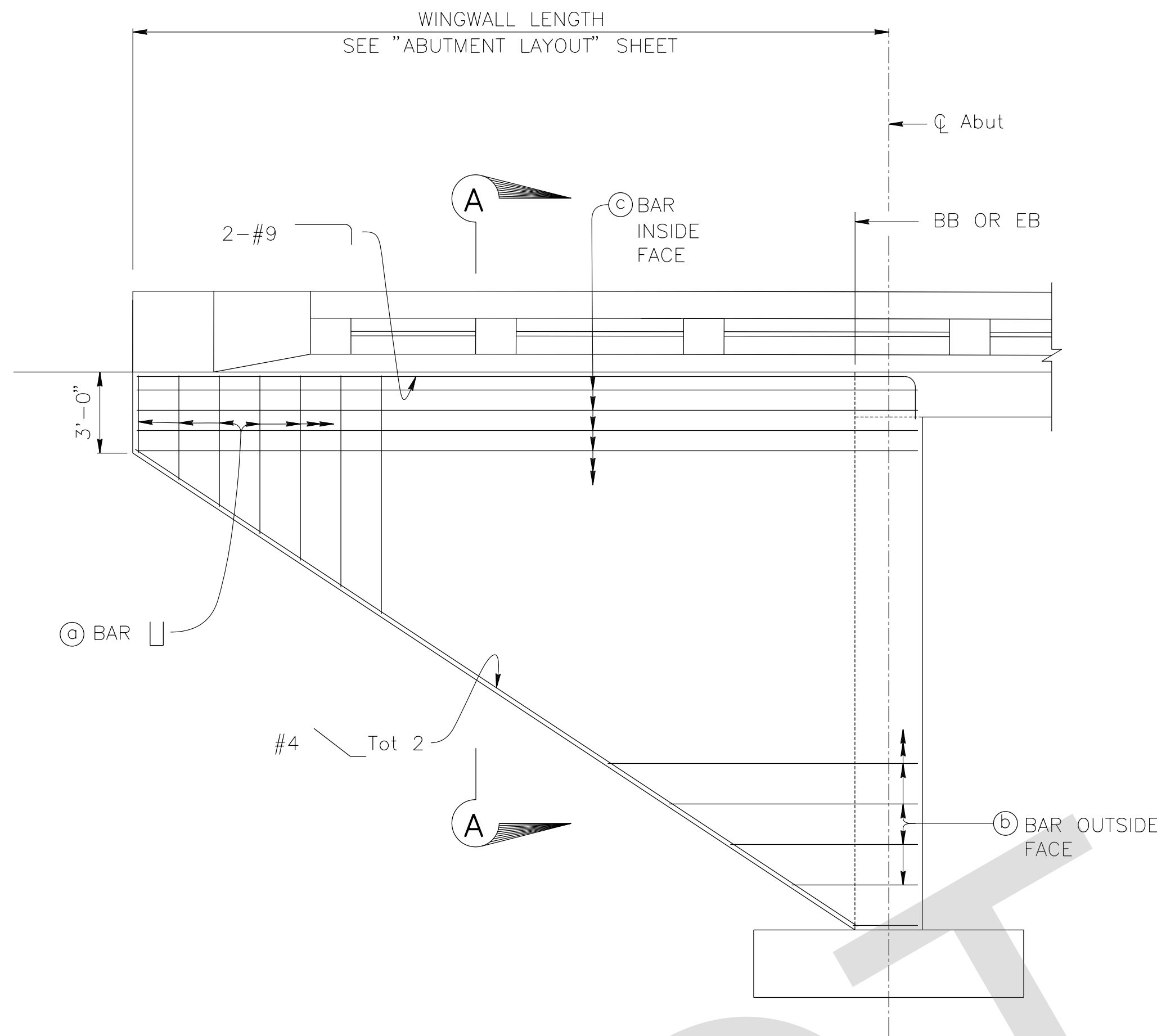
DESIGNED BY: NO	DRAWN BY: AD	CHECKED BY: JR	RECOMMENDED BY: Chris Nguyen, P.E. TRANSPORTATION DESIGN ENGINEERING MANAGER 06/05/2024
APPROVED BY: Noel Mondragon, P.E. SUPERVISING ENGINEER 06/05/2024			APPROVED BY: Mervat N. Mikhail, P.E. DEPUTY DIRECTOR 06/05/2024

LANZIT DITCH BRIDGE
BRIDGE No. 54C0286
(County No. 82)
ABUTMENT LAYOUT

J.L. REF. J.L. 12145	W.D. NO. H15220	PLAN SCALE AS NOTED	SHT. NO. 29	TOT. SHTS. 54
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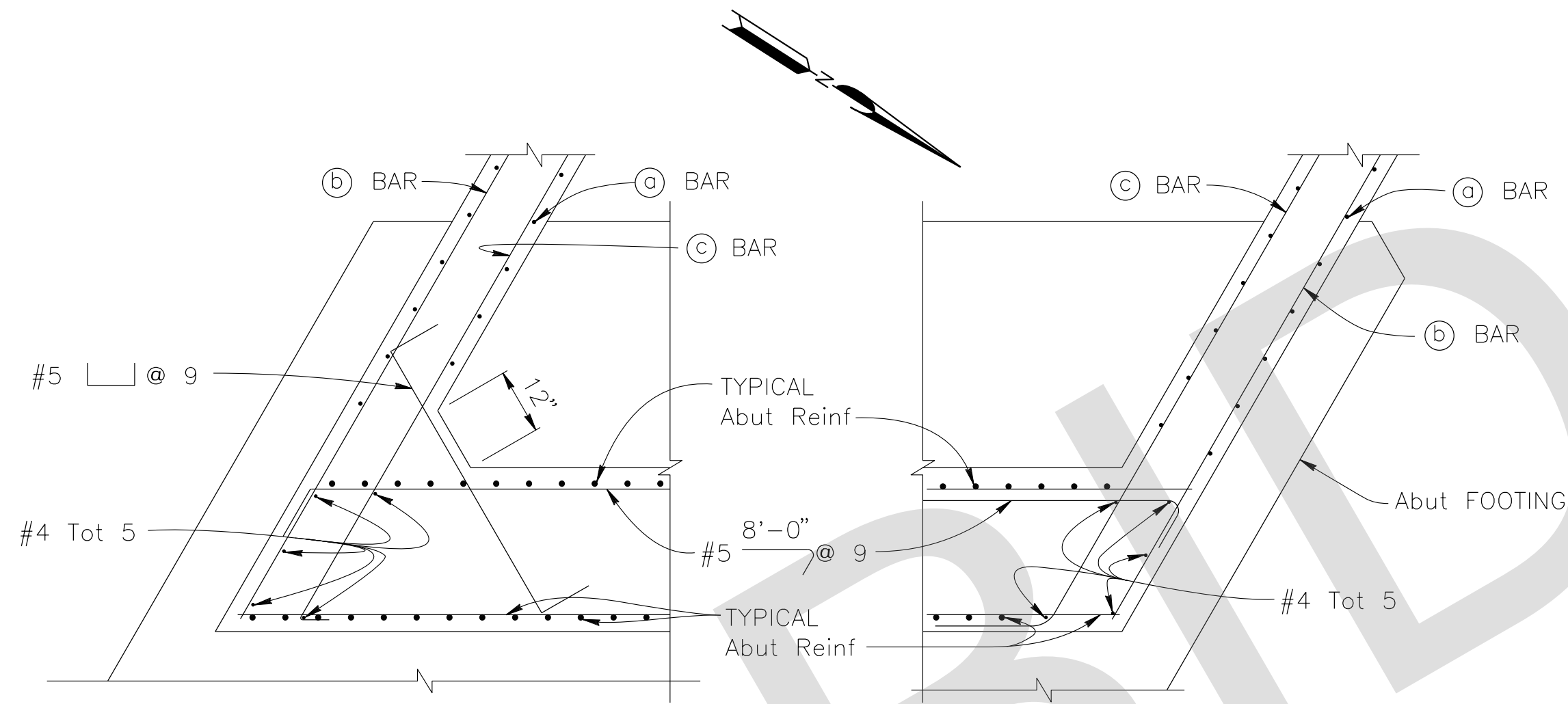
WINGWALL REINFORCEMENT TABLE

BAR	WINGWALL LENGTH	
	20'-6"	22'-0"
ⓐ	#4 @ 18	#4 @ 18
ⓑ	#4 @ 18	#4 @ 18
ⓒ	#9 @ 9	#9 @ 9
T	1'-0"	1'-0"



WINGWALL TYPICAL ELEVATION

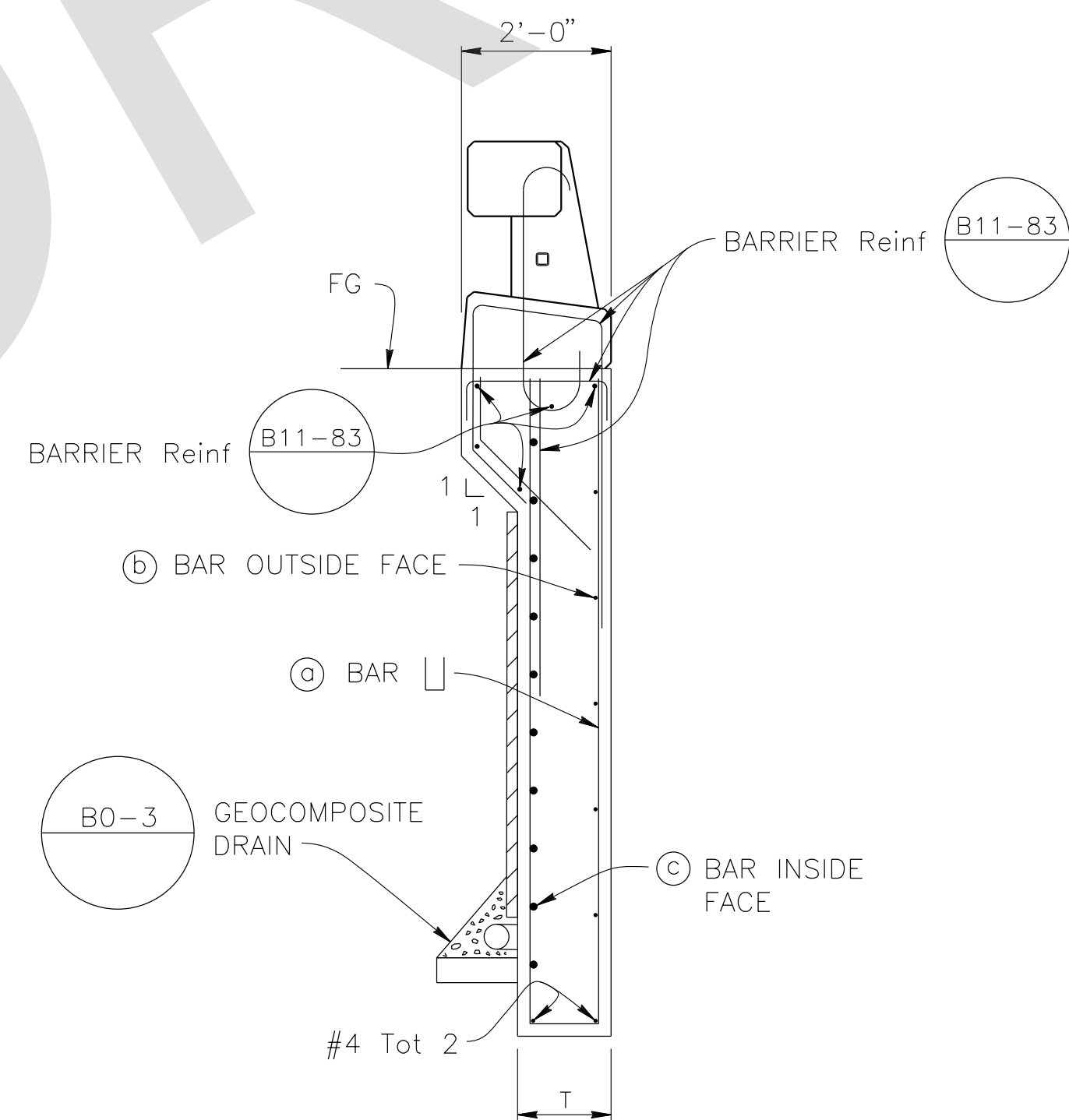
1/4" = 1'-0"



CORNER DETAIL

1/2" = 1'-0"

Abutment 1 shown, Abutment 4 similar.



SECTION A-A

1/2" = 1'-0"

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 DATE

MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		

FIELD CHANGES



SAN BERNARDINO COUNTY
 DEPARTMENT OF PUBLIC WORKS

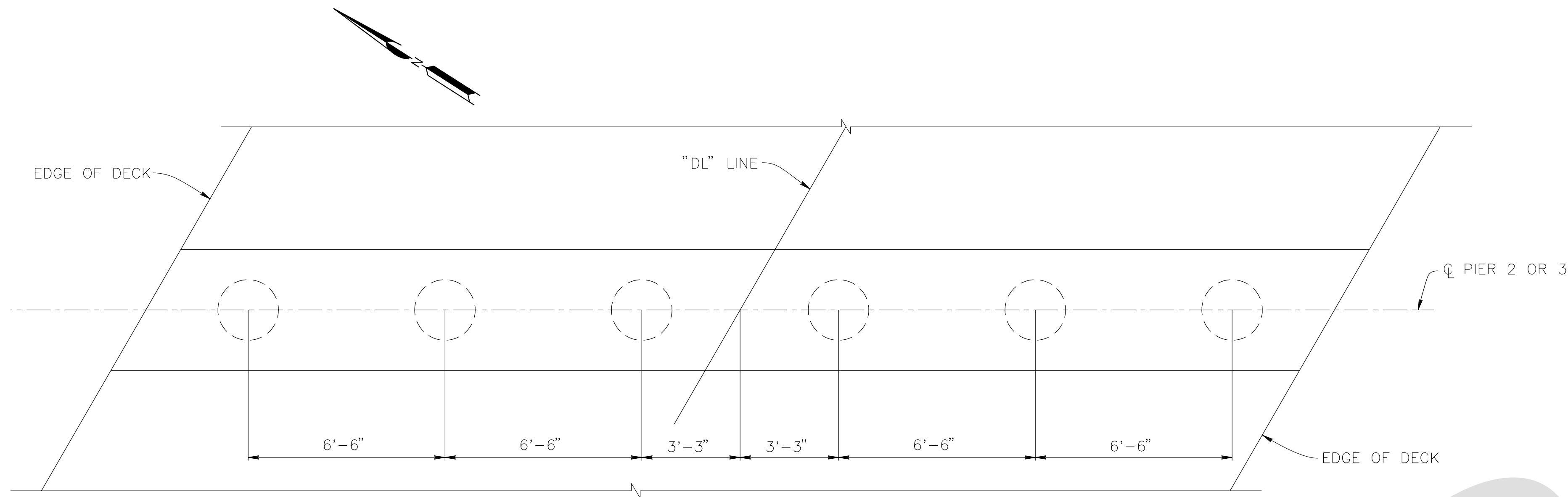
DESIGNED BY: NO	DRAWN BY: AD	CHECKED BY: JR	RECOMMENDED BY: CHRIS NGUYEN, P.E. TRANSPORTATION DESIGN ENGINEERING MANAGER 06/05/2024
APPROVED BY: NOEL MONDRAGON, P.E. SUPERVISING ENGINEER 06/05/2024			APPROVED BY: MERVAT N. MIKHAIL, P.E. DEPUTY DIRECTOR 06/05/2024

LANZIT DITCH BRIDGE
 BRIDGE No. 54C0286
 (County No. 82)
 ABUTMENT DETAILS

J.L. REF. J.L. 12145	W.D. NO. H15220	PLAN SCALE AS NOTED	SHT. NO. 30	TOT. SHT'S. 54
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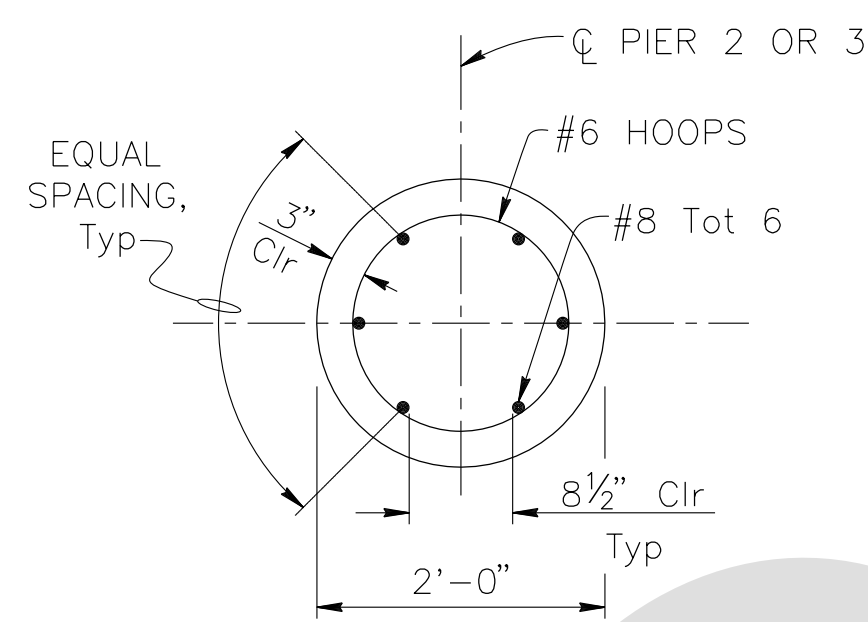
MARK	REVISIONS	DATE

FILE NO. 586600 120



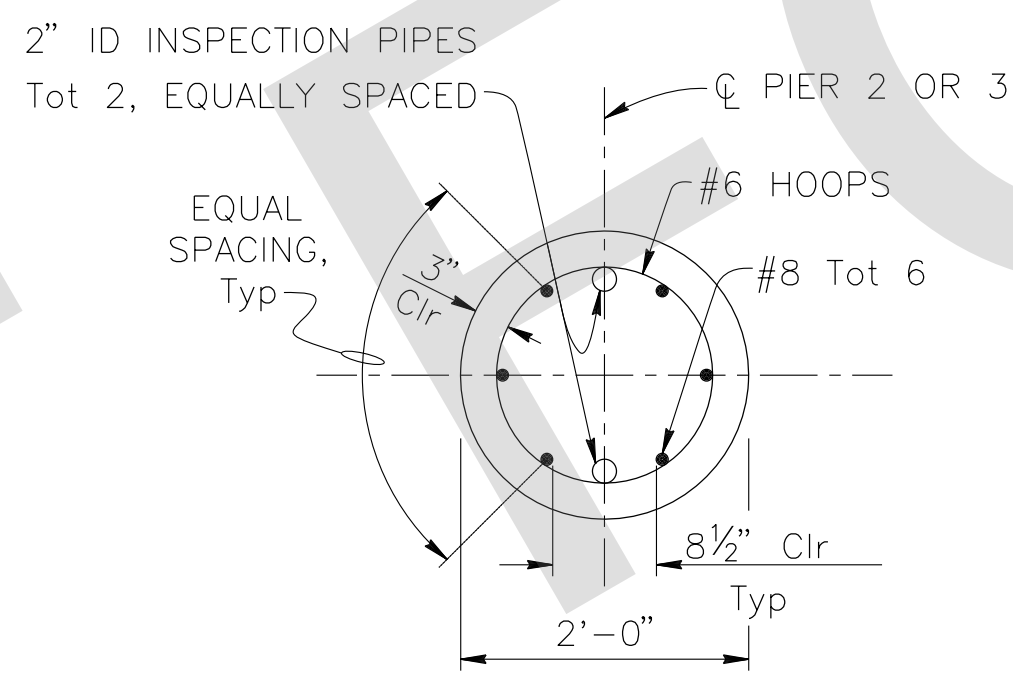
PLAN

$\frac{3}{8}" = 1'-0"$



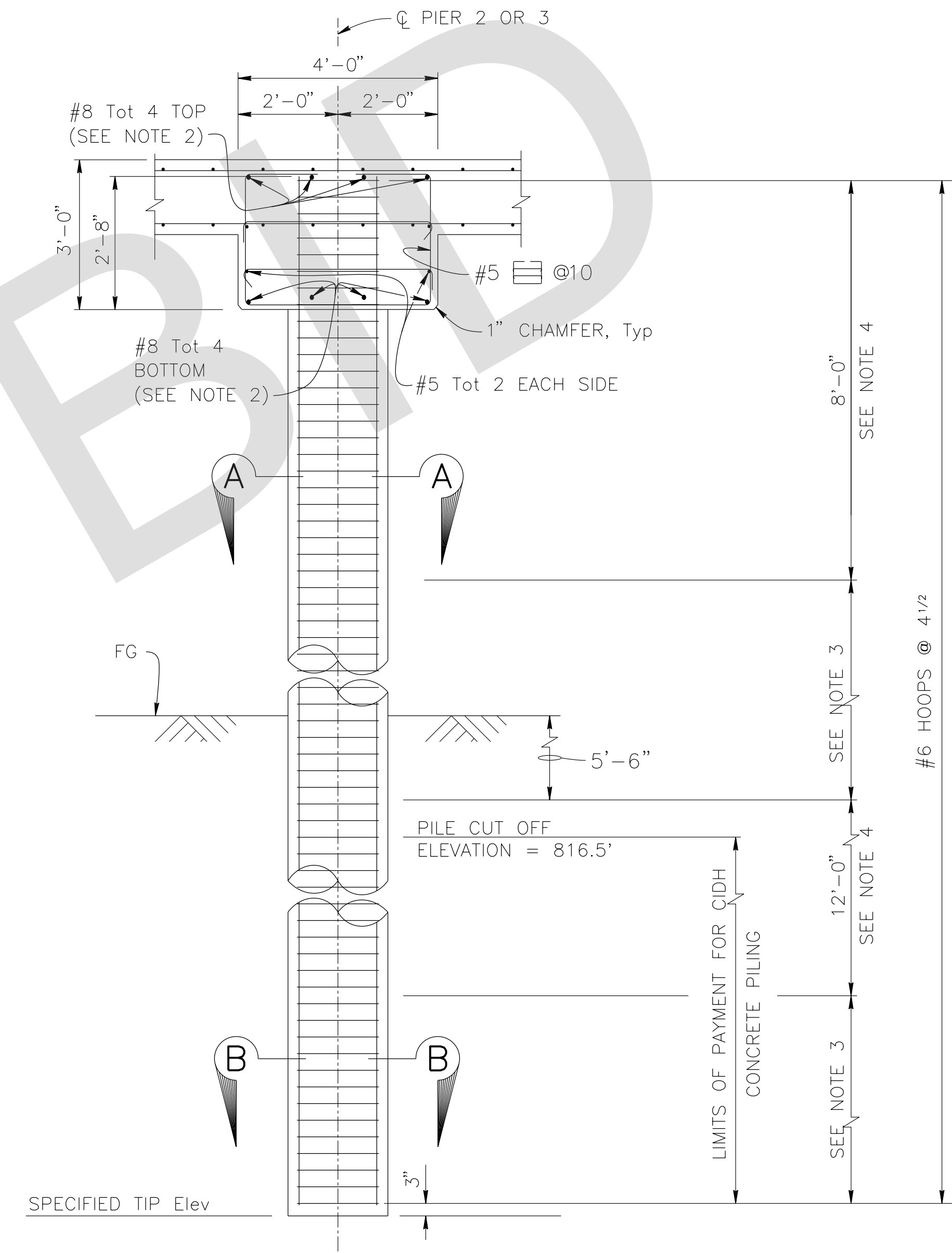
SECTION A-A

$\frac{3}{4}" = 1'-0"$



SECTION B-B

$\frac{3}{4}" = 1'-0"$



TYPICAL SECTION

$\frac{1}{2}" = 1'-0"$

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

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

MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		

FIELD CHANGES



SAN BERNARDINO COUNTY
DEPARTMENT OF PUBLIC WORKS

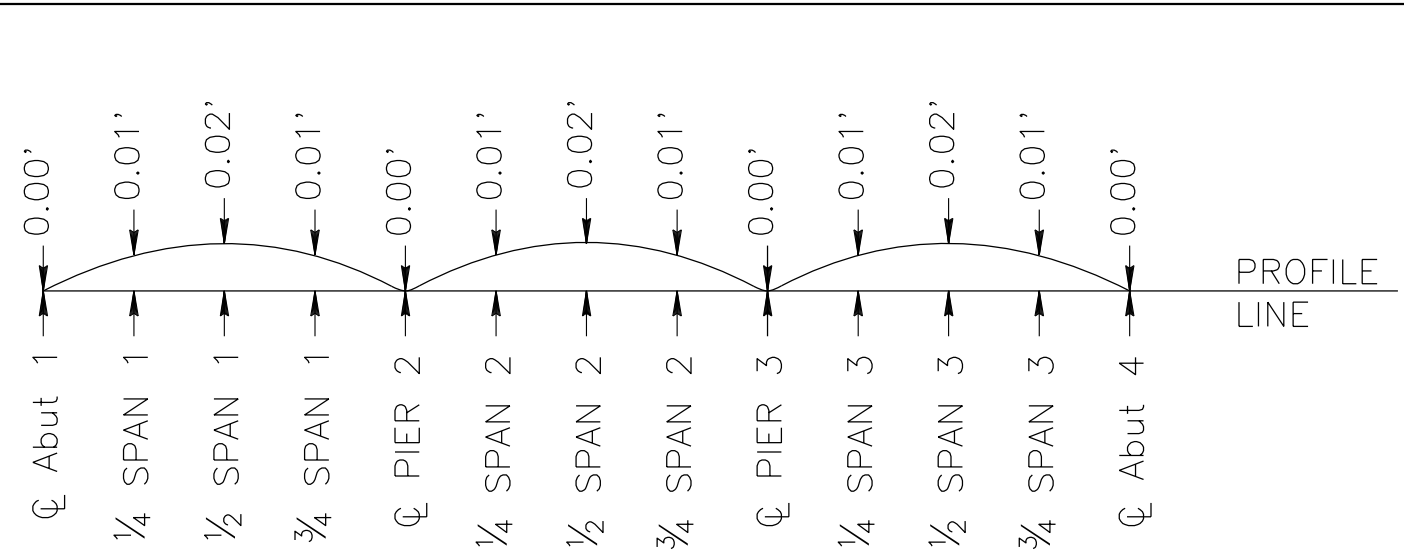
DESIGNED BY: NO	DRAWN BY: AD	CHECKED BY: JR	RECOMMENDED BY: CHRIS NGUYEN, P.E. TRANSPORTATION DESIGN ENGINEERING MANAGER DATE: 06/05/2024
APPROVED BY: NOEL MONDRAGON, P.E. SUPERVISING ENGINEER DATE: 06/05/2024			APPROVED BY: MERVAT N. MIKHAIL, P.E. DEPUTY DIRECTOR DATE: 06/05/2024

LANZIT DITCH BRIDGE
BRIDGE No. 54C0286
(County No. 82)
PIER LAYOUT

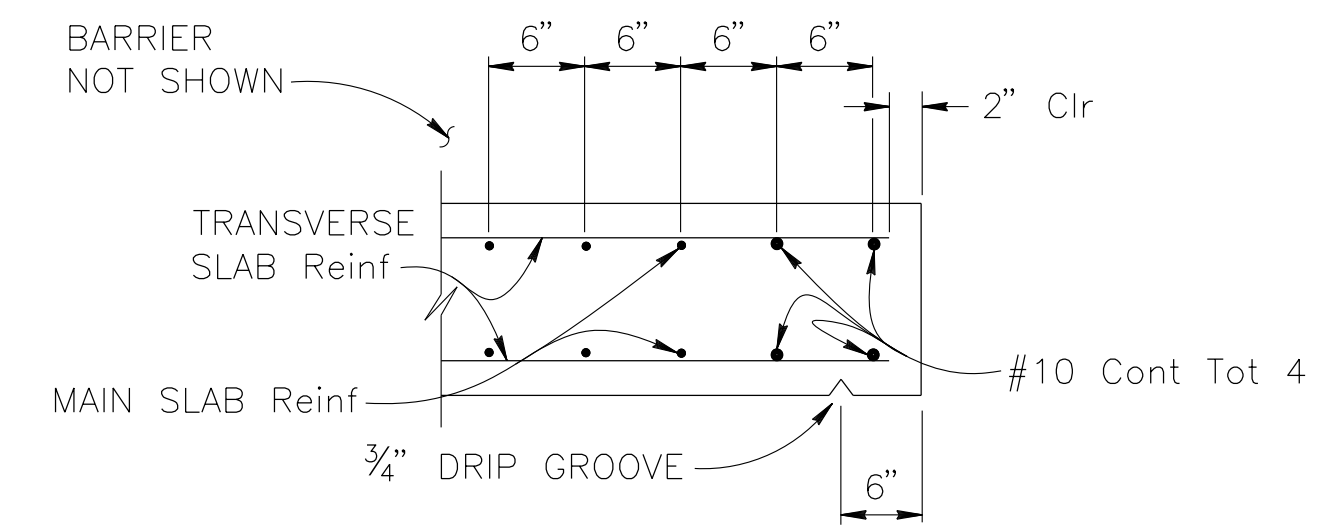
J.L. REF. J.L. 12145	W.D. NO. H15220	PLAN SCALE AS NOTED	SHT. NO. 31	TOT. SHTS. 54
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MARK	REVISIONS	DATE

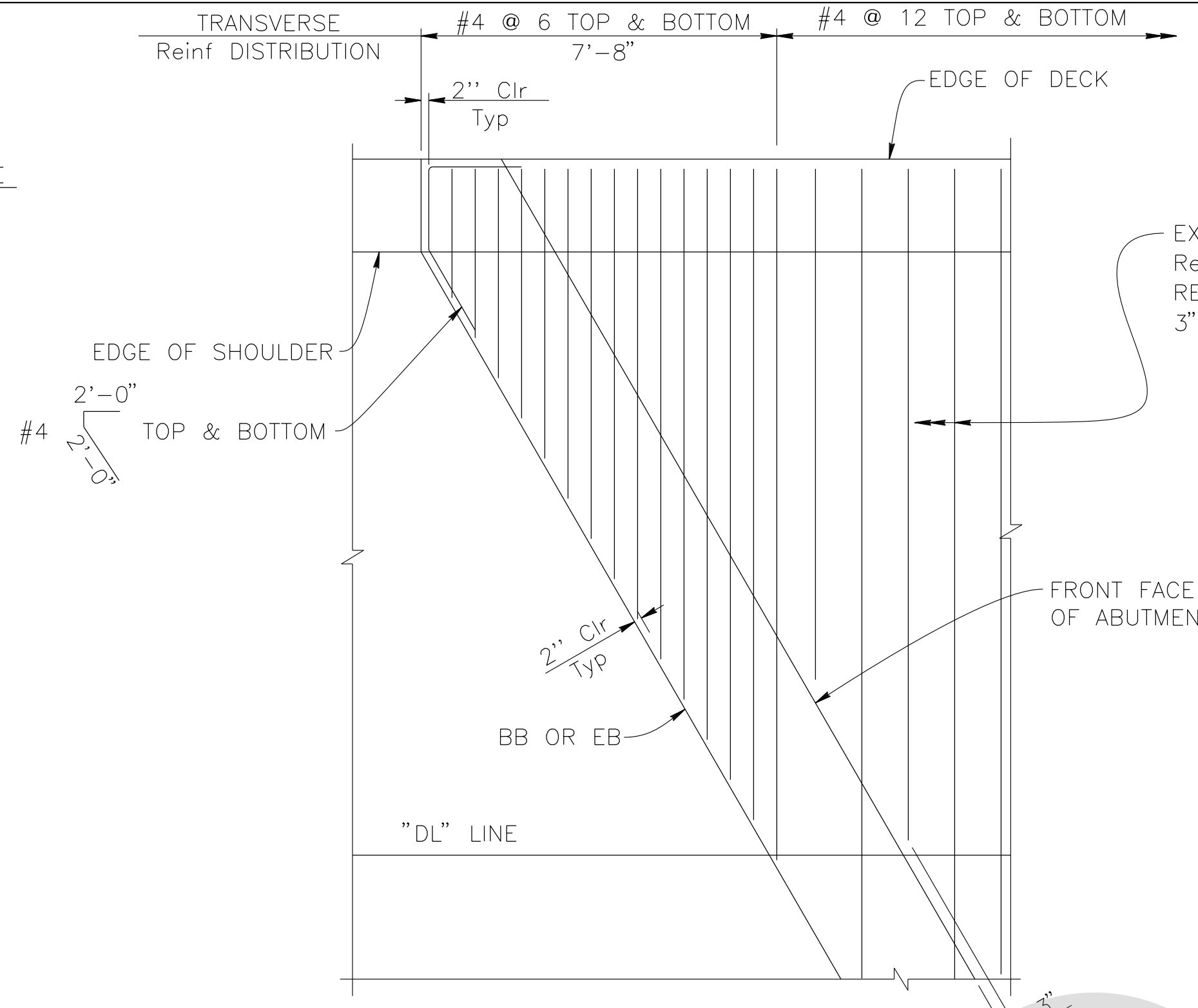
FILE NO. 586600 120



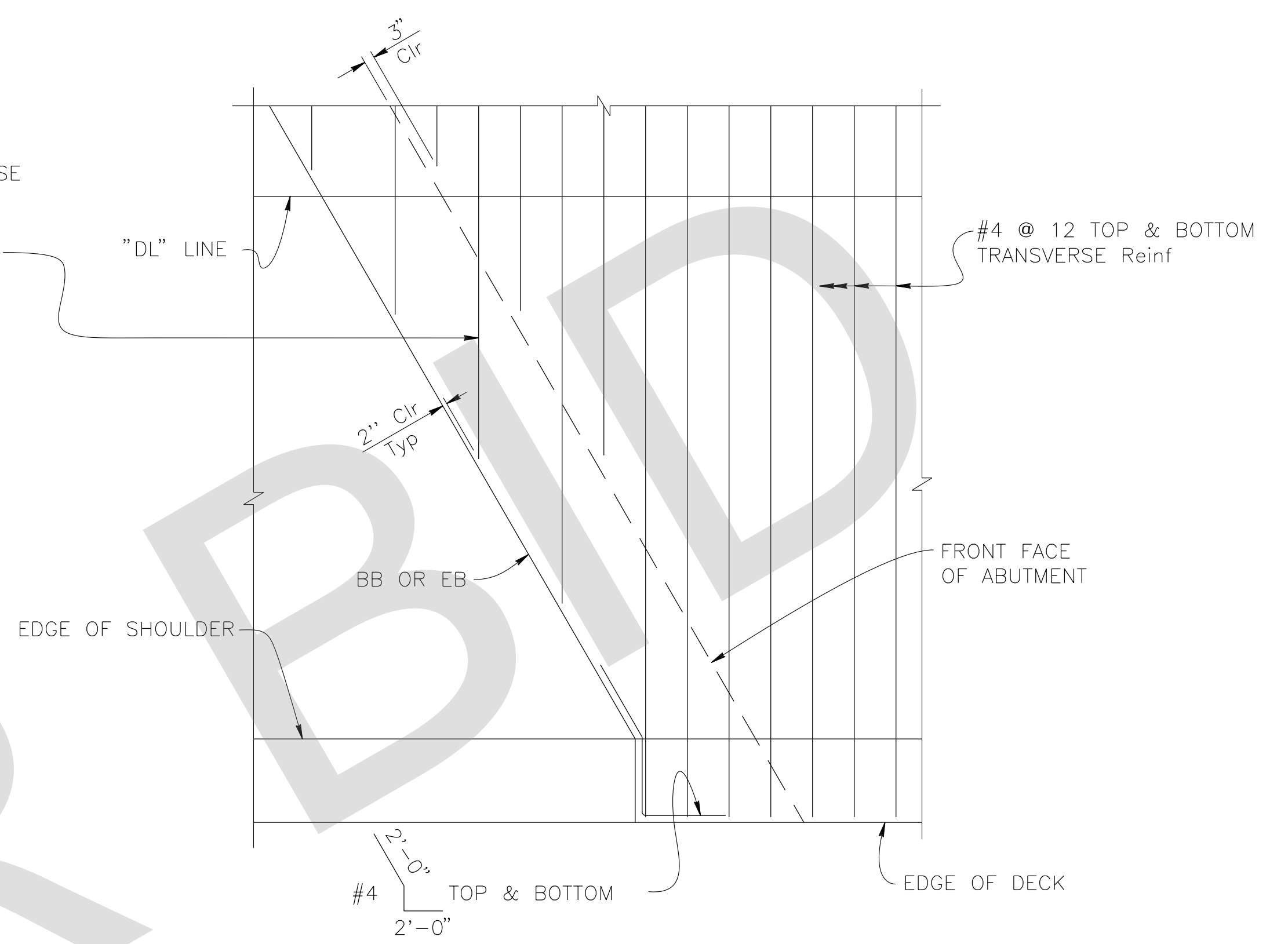
Does not include allowance for falsework settlement.
CAMBER DIAGRAM
 NO SCALE



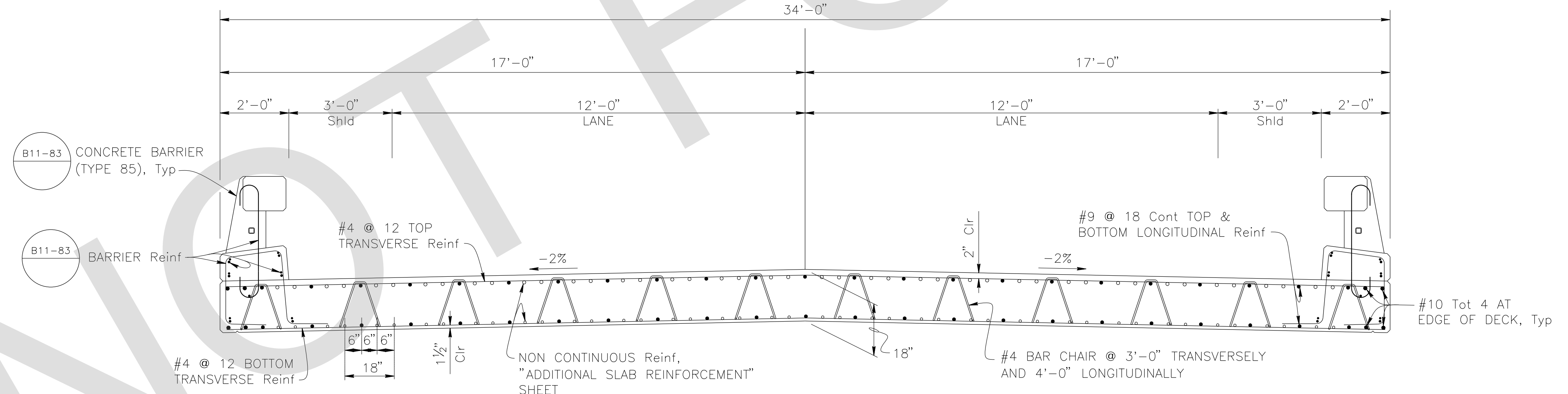
EDGE OF SLAB DETAILS
 NO SCALE



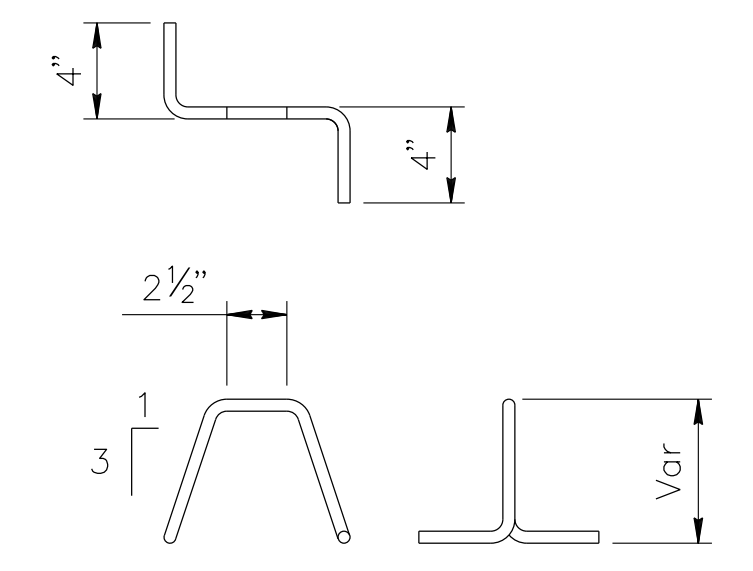
TRANSVERSE REINFORCEMENT ACUTE CORNER DETAIL
 $\frac{3}{8}'' = 1'-0''$



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



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



REINFORCEMENT CHAIR DETAIL
 NO SCALE

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

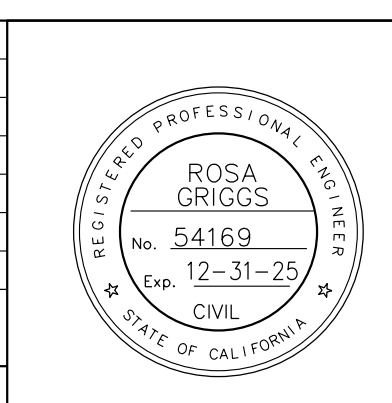
PREPARED BY:

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

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

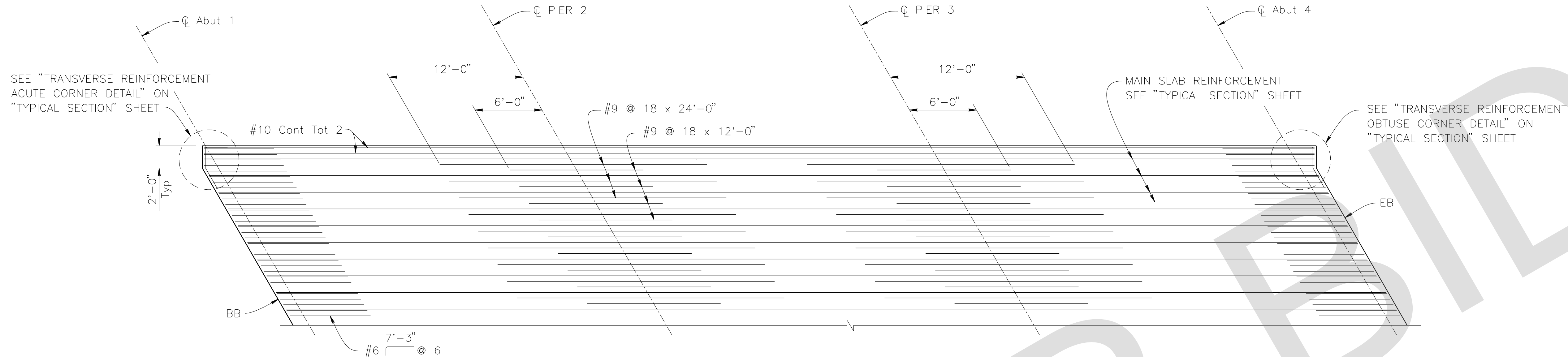
DESIGNED BY: NO	DRAWN BY: AD	CHECKED BY: JR	RECOMMENDED BY: <i>Chris Nguyen</i> 06/05/2024 DATE
NOEL MONDRAGON, P.E. SUPERVISING ENGINEER 06/05/2024 DATE			MERVAT N. MIKHAIL, P.E. DEPUTY DIRECTOR 06/05/2024 DATE

LANZIT DITCH BRIDGE
 BRIDGE No. 54C0286
 (County No. 82)
 TYPICAL SECTION

J.L. REF. J.L. 12145	W.D. NO. H15220	PLAN SCALE AS NOTED	SHT. NO. 32	TOT. SHT'S. 54
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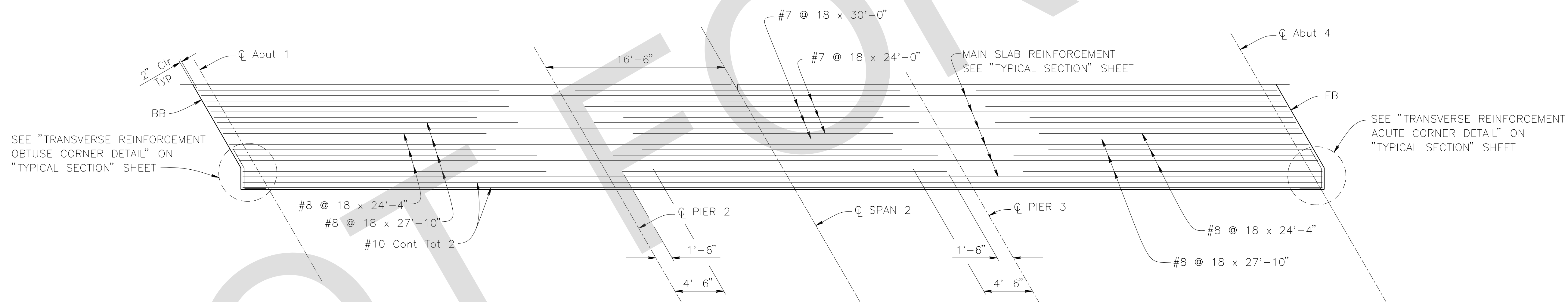
FILE NO. 586600 120

REVISIONS	DATE	APPR.



ADDITIONAL TOP SLAB REINFORCEMENT

$\frac{3}{16}'' = 1'-0''$



ADDITIONAL BOTTOM SLAB REINFORCEMENT

$\frac{3}{16}'' = 1'-0''$

BAR SPLICE LENGTH								
Bar size	#4	#5	#6	#7	#8	#9	#10	#11
All bars, except top bars in spans over 24'	23"	28"	34"	39"	45"	68"	76"	85"
Top bars in spans over 24'	23"	28"	34"	53"	60"	77"	97"	120"

REINFORCEMENT NOTES:

1. Splices in top main bars to be located near center of span.
2. Splices in bottom main bars to be located near bent.

FILE NO. 586600 120

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

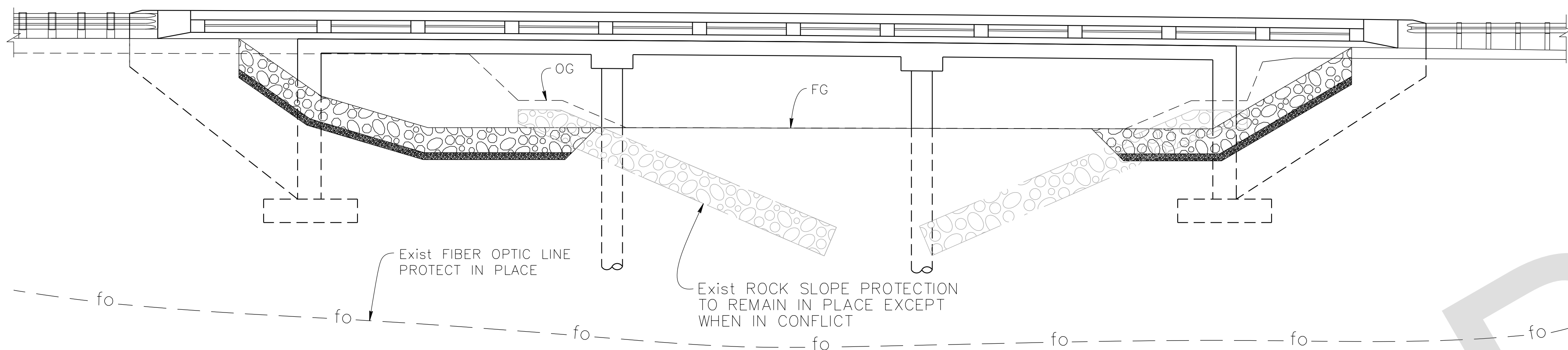


SAN BERNARDINO COUNTY
DEPARTMENT OF PUBLIC WORKS

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			APPROVED BY: Mervat N. Mikhail, P.E. DEPUTY DIRECTOR DATE: 06/05/2024

LANZIT DITCH BRIDGE
BRIDGE No. 54C0286
(County No. 82)
ADDITIONAL SLAB REINFORCEMENT

J.L. REF. J.L. 12145	W.D. NO. H15220	PLAN SCALE AS NOTED	SHT. NO. 33	TOT. SHT'S. 54
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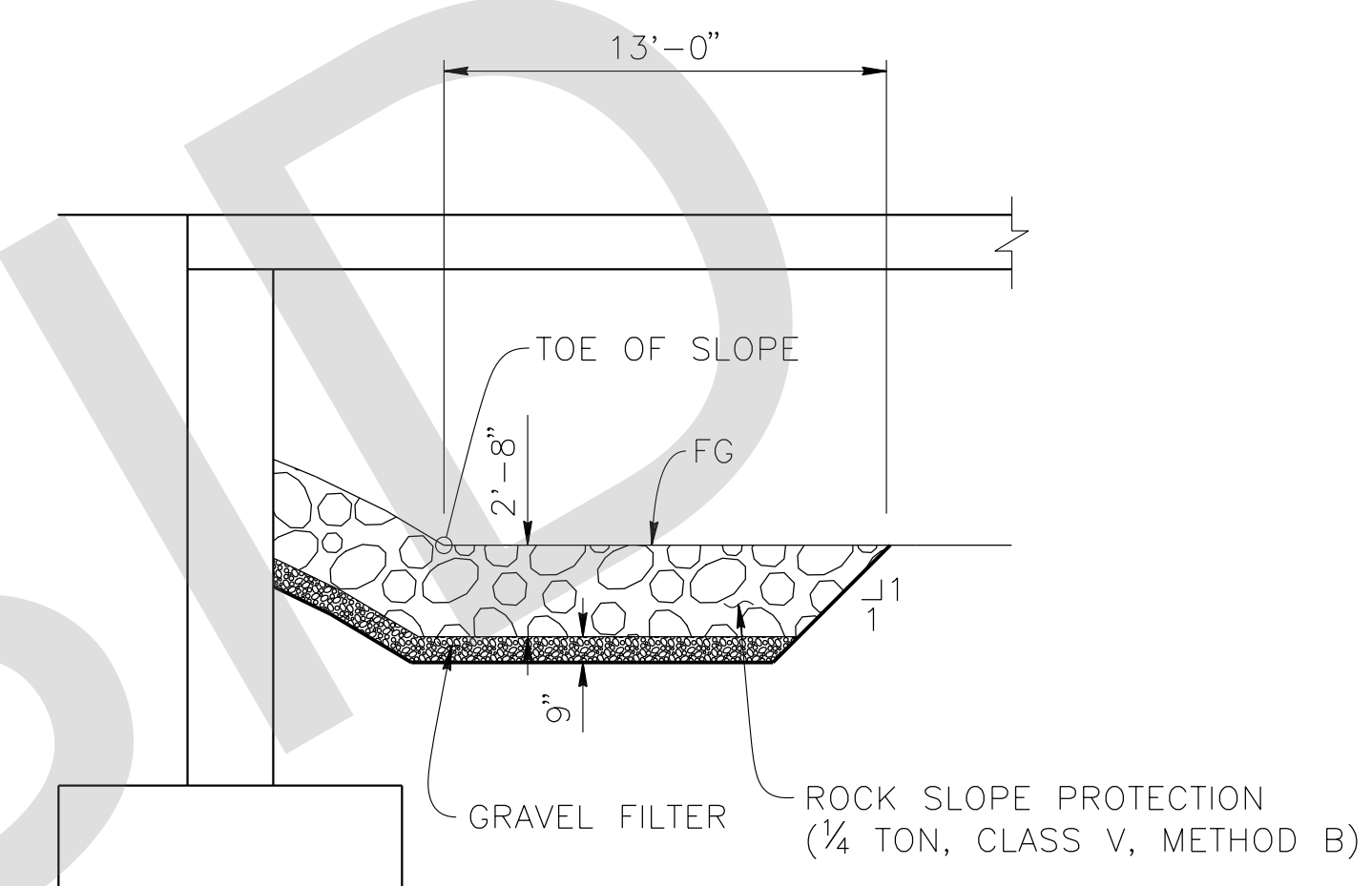
Exist FIBER OPTIC LINE
PROTECT IN PLACE

Exist ROCK SLOPE PROTECTION
TO REMAIN IN PLACE EXCEPT
WHEN IN CONFLICT

VIEW C-C

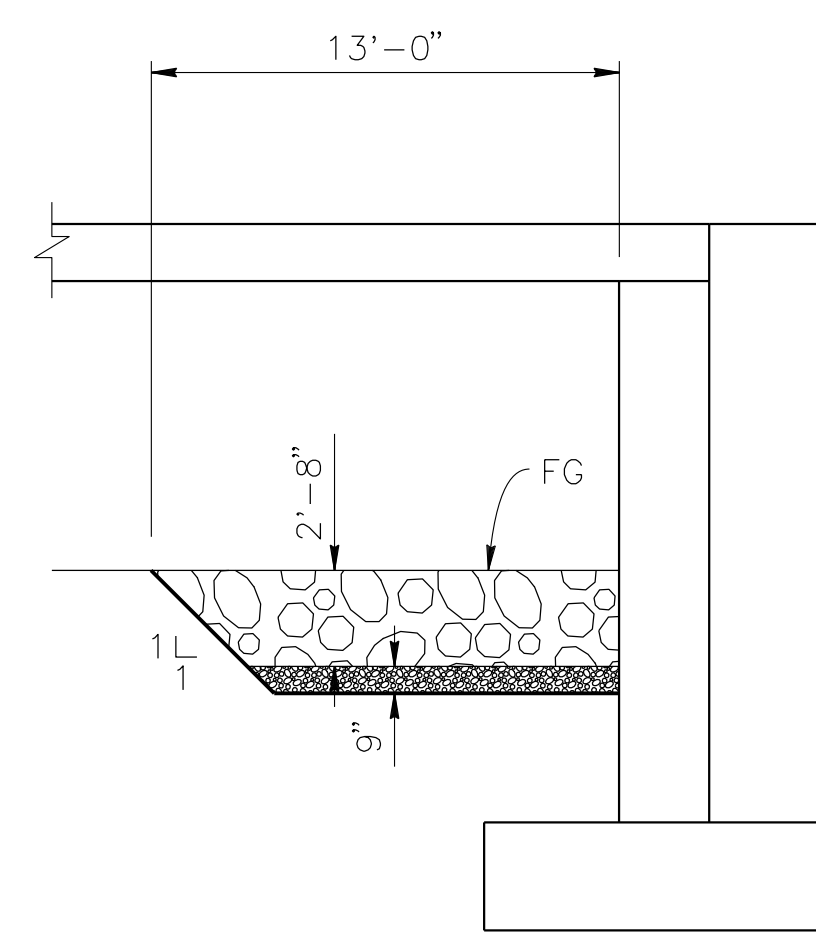
1/8" = 1'-0"

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



SECTION A-A

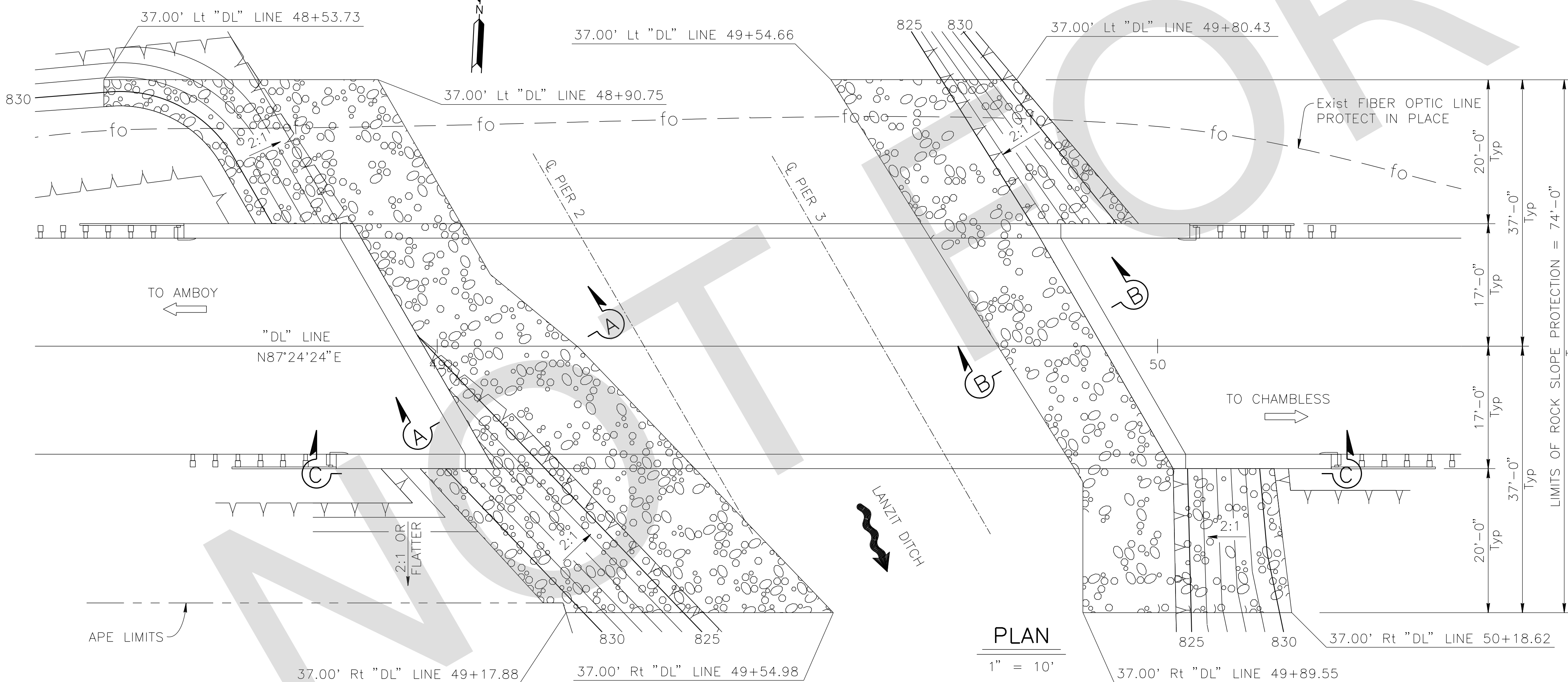
3/16" = 1'-0"



SECTION B-B

3/16" = 1'-0"

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



PLAN

1" = 10'

MARK	REVISIONS	DATE

FILE NO. 586600 120

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 DATE

MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		

FIELD CHANGES



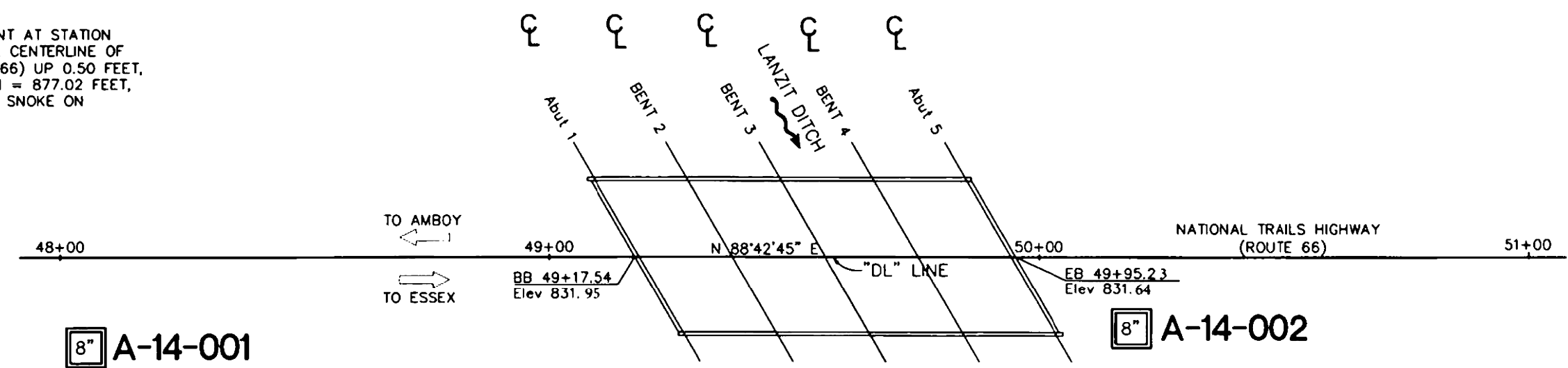
SAN BERNARDINO COUNTY
DEPARTMENT OF PUBLIC WORKS

DESIGNED BY:	DRAWN BY:	CHECKED BY:	RECOMMENDED BY:
NO	AD	JR	Chris Nguyen, P.E. TRANSPORTATION DESIGN ENGINEERING MANAGER 06/05/2024
NOEL MONDRAGON, P.E. SUPERVISING ENGINEER	06/05/2024	DATE	APPROVED BY: Mervat N. Mihalil, P.E. DEPUTY DIRECTOR 06/05/2024

LANZIT DITCH BRIDGE
BRIDGE No. 54C0286
(County No. 82)
ROCK SLOPE PROTECTION DETAILS

J.L. REF.	W.D. NO.	PLAN SCALE	SHT. NO.	TOT. SHT'S.
J.L. 12145	H15220	AS NOTED	34	54

BENCHMARK:
D.O.T. CONCRETE "C" R/W MONUMENT AT STATION
396+83.39, 150 FEET LEFT OF THE CENTERLINE OF
NATIONAL TRAILS HIGHWAY (ROUTE 66) UP 0.50 FEET.
PER CSFB 4234/1; HELD ELEVATION = 877.02 FEET.
NAVD 88. SURVEYED BY GLENN O. SNOKE ON
1/31/2013.



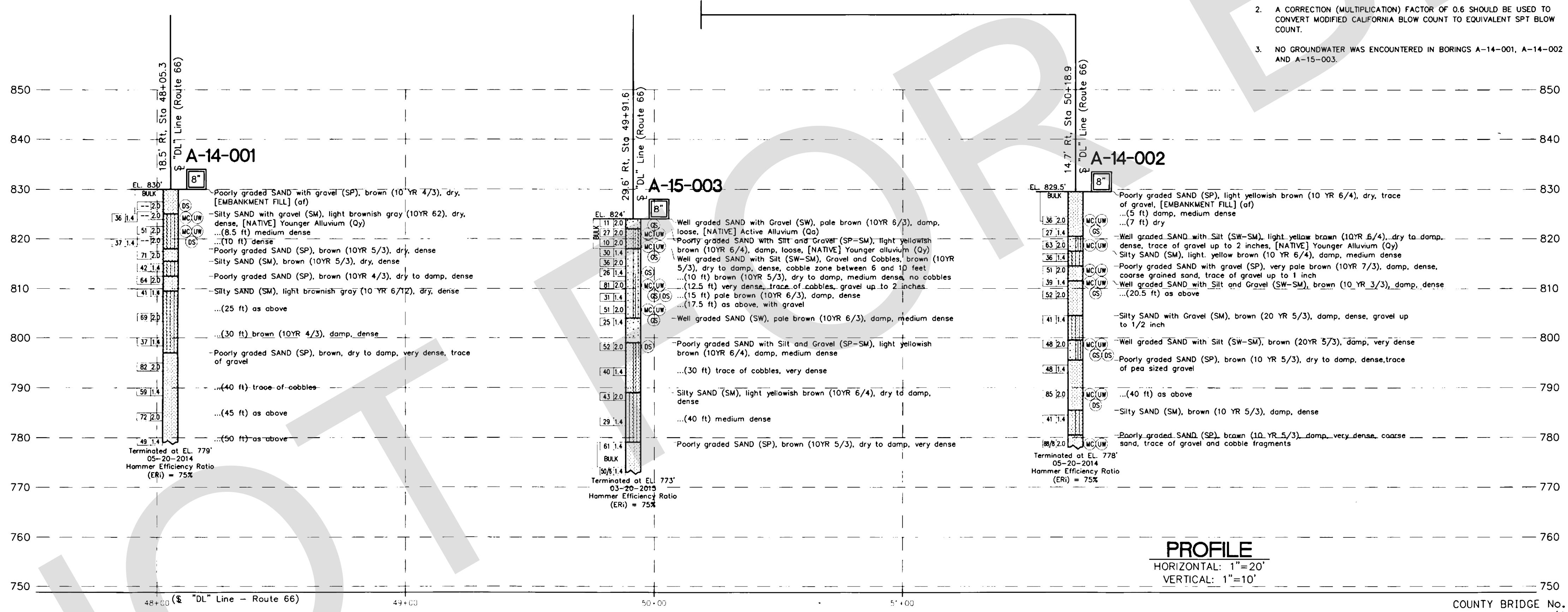
PLAN
SCALE: 1"=20'

AS BUILT
DATE COMPLETED: 10-16-17

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	66	86.72	1	3
April 4, 2016					
REGISTERED CIVIL ENGINEER			DATE		
PETER SPOPEK			No. GE 2635		
PLANS APPROVAL DATE			Exp. 06/30/2017		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					
TETRA TECH BAS GEOSCIENCE 1360 VALLEY VISTA DRIVE DIAMOND BAR, CA 91765					

THIS LOG SHEET WAS PREPARED IN ACCORDANCE WITH THE CALTRANS SOIL & ROCK LOGGING, CLASSIFICATION, AND PRESENTATION MANUAL (2010)

- NOTES:
1. AUTOMATIC TRIP HAMMER SYSTEM CONSISTS OF A HAMMER WEIGHT OF 140 POUNDS FALLING A DISTANCE OF 30 INCHES WHICH WAS USED TO ADVANCE THE DRIVE SAMPLERS.
 2. A CORRECTION (MULTIPLICATION) FACTOR OF 0.6 SHOULD BE USED TO CONVERT MODIFIED CALIFORNIA BLOW COUNT TO EQUIVALENT SPT BLOW COUNT.
 3. NO GROUNDWATER WAS ENCOUNTERED IN BORINGS A-14-001, A-14-002 AND A-15-003.



PROFILE
HORIZONTAL: 1"=20'
VERTICAL: 1"=10'

PETER SPOPEK, G.E. DESIGN OVERSIGHT	DRAWN BY CDS/J.B. DEPOORTER	A.H.M. FIELD INVESTIGATION BY DATE: MAY 20, 2014 AND MARCH 20, 2015	BRIDGE NO. 54C-0286	LANZIT DITCH BRIDGE	
CHECKED BY FERNANDO CUENCA, P.E.	PREPARED FOR THE SAN BERNARDINO COUNTY TRANSPORTATION DESIGN DIVISION		POST MILES 86.72	LOG OF TEST BORINGS No. 1	
SIGN OFF DATE			CONTRACT NO.: 08-924807L	DISREGARD PRINTS BEARING EARLIER REVISION DATES	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			UNIT: PROJECT NUMBER & PHASE:	REVISION DATES	

PREPARED BY:

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

Rosall S. Griggs
ROSA GRIGGS, PROJECT ENGINEER 1/12/24 DATE

MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		
FIELD CHANGES			

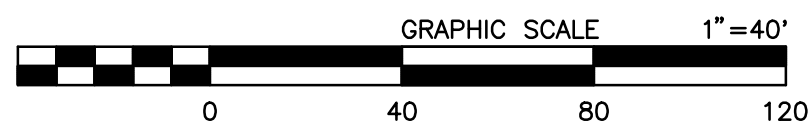
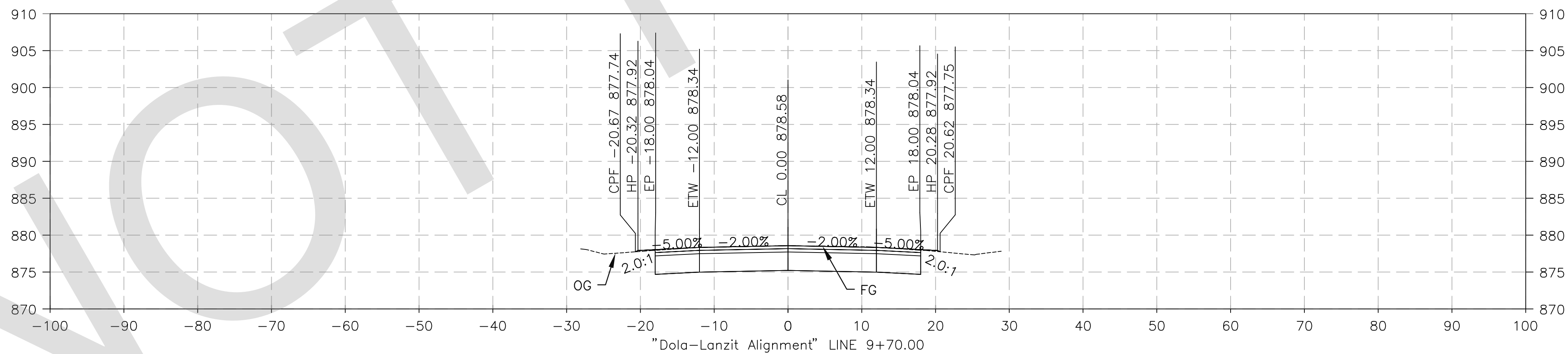
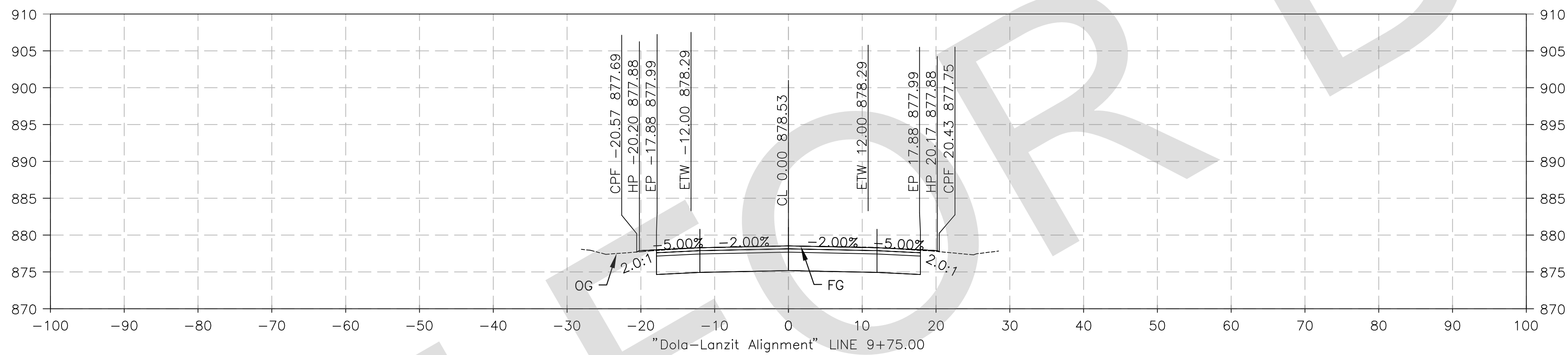
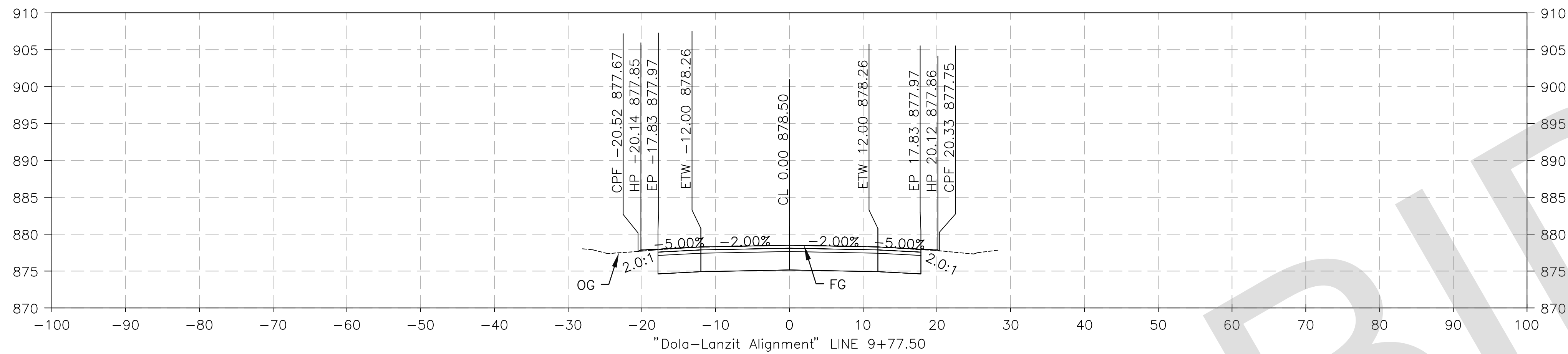
REGISTERED PROFESSIONAL ENGINEER
ROSA GRIGGS
No. 54169
Exp. 12-31-25
CIVIL
STATE OF CALIFORNIA

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 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

LANZIT DITCH BRIDGE BRIDGE No. 54C0286 (County No. 82) LOG OF TEST BORINGS				
J.L. REF. J.L. 12145	W.D. NO. H15220	PLAN SCALE AS NOTED	SHT. NO. 35	TOT. SHTS. 54

FILE NO. 586600 120

REVISIONS	DATE	APPR.



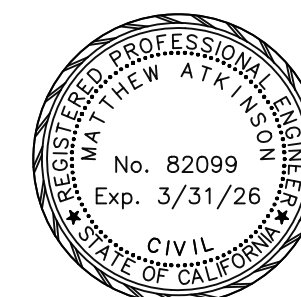
PREPARED BY:



MATTHEW ATKINSON, PROJECT ENGINEER
05/23/24 DATE

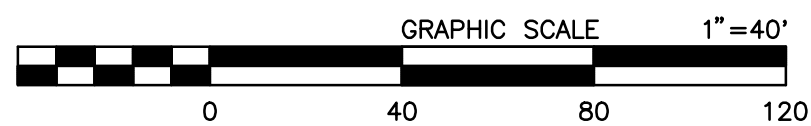
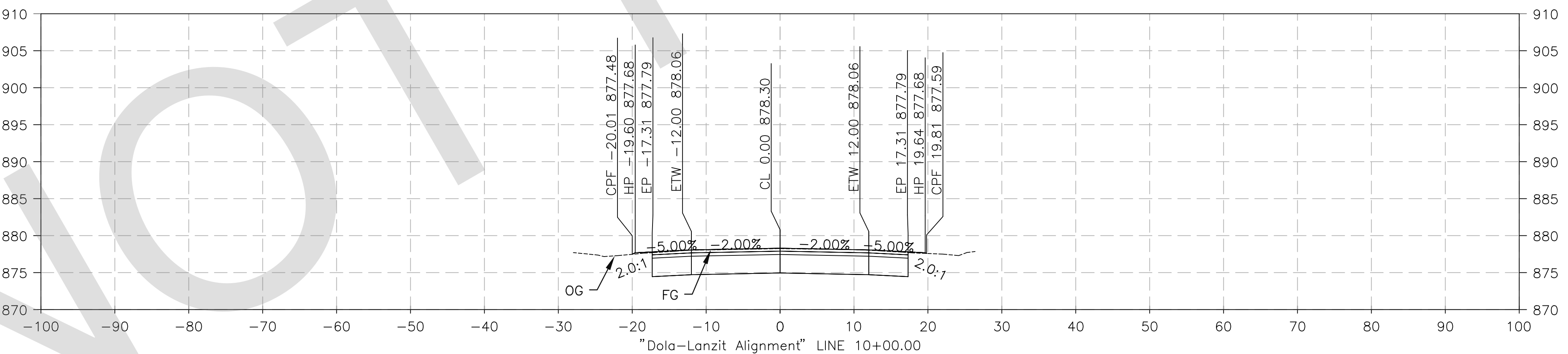
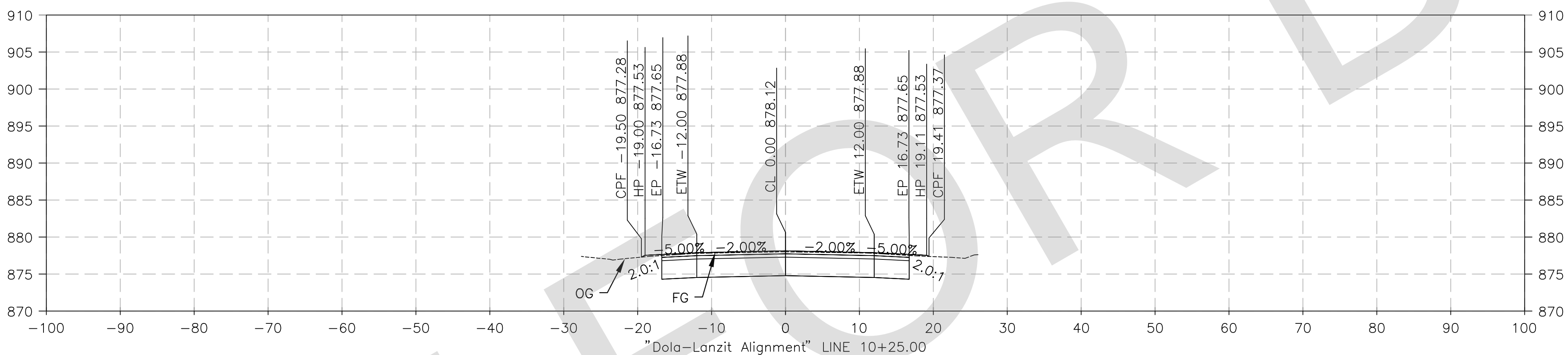
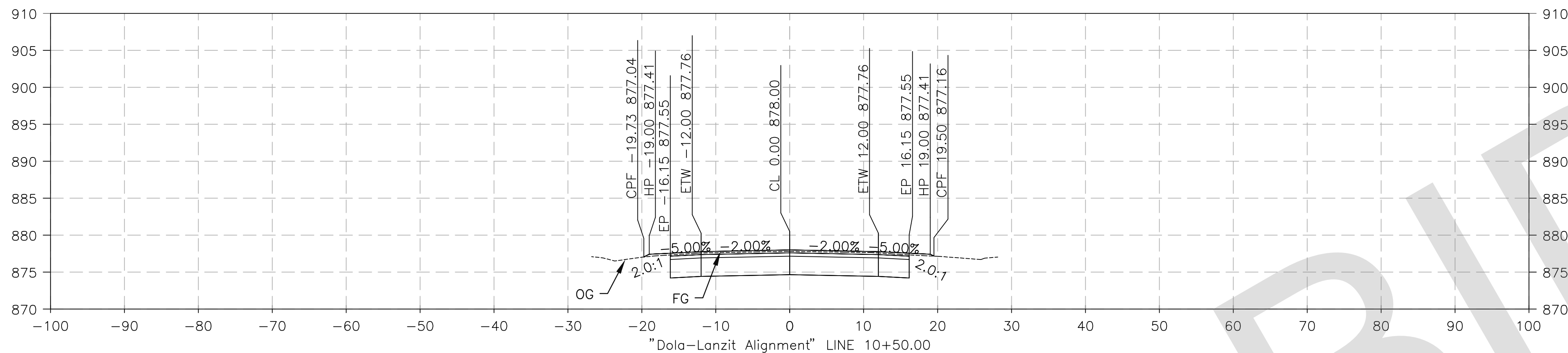
MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		

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				
DESIGN CROSS SECTION DOLA DITCH				
J.L. REF. J.L. 12145	W.O. NO. H15220	PLAN SCALE 1"=10'	SHT. NO. 36	TOT. SHT'S. 54



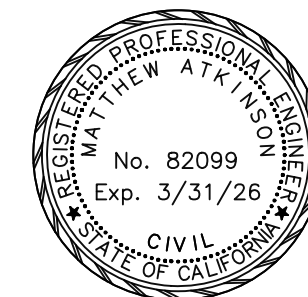
PREPARED BY:



Matthew Atkinson, Project Engineer
05/23/24 DATE

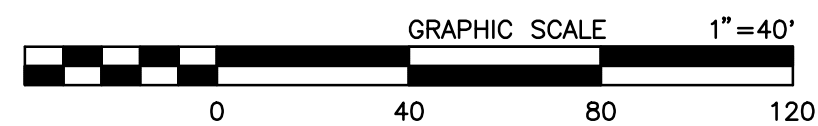
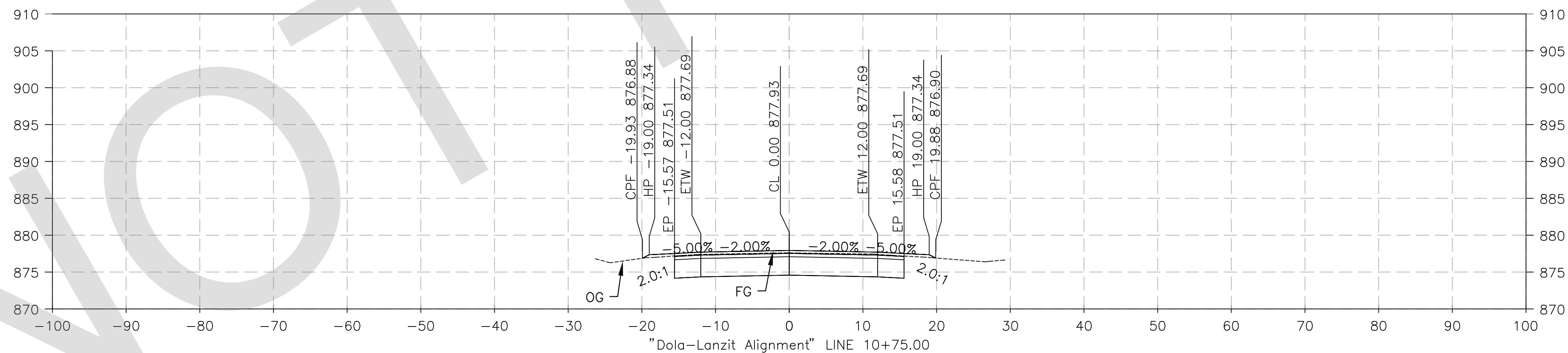
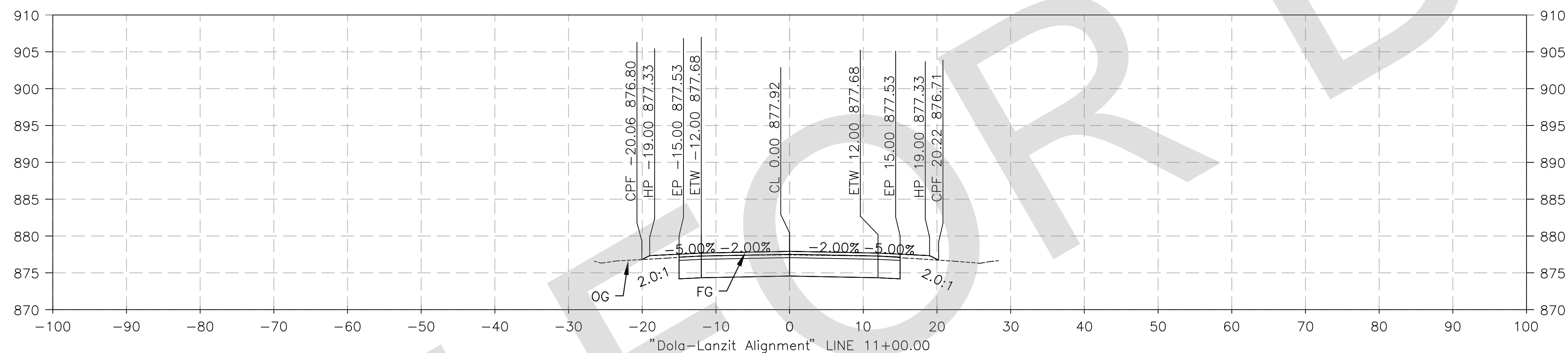
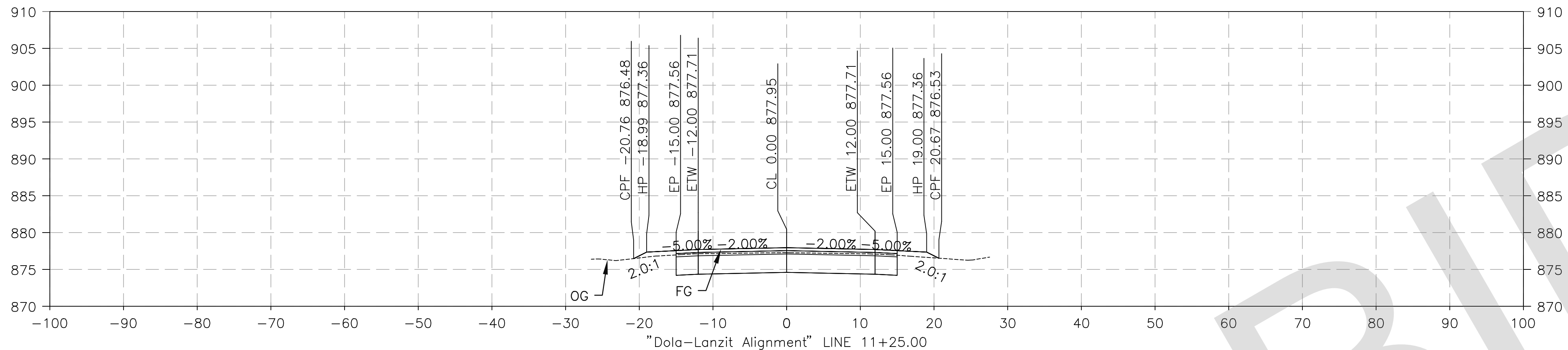
MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		

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
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			
DESIGN CROSS SECTION DOLA DITCH			
J.L. REF. J.L. 12145	W.O. NO. H15220	PLAN SCALE 1"=10'	SHT. NO. / TOT. SHT'S. 37 / 54



PREPARED BY:



MATTHEW ATKINSON, PROJECT ENGINEER
05/23/24 DATE

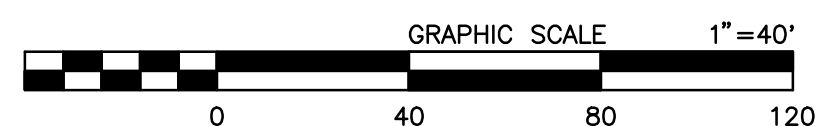
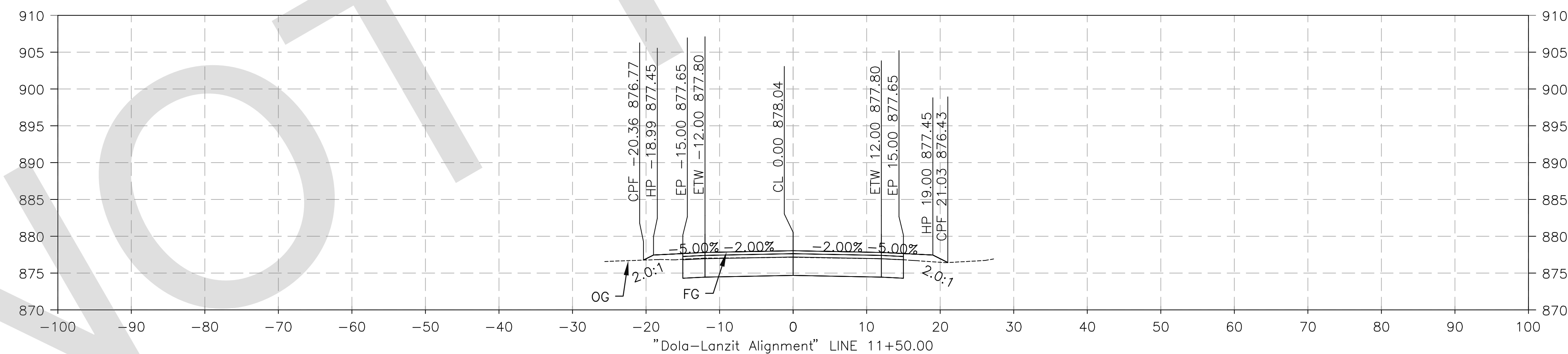
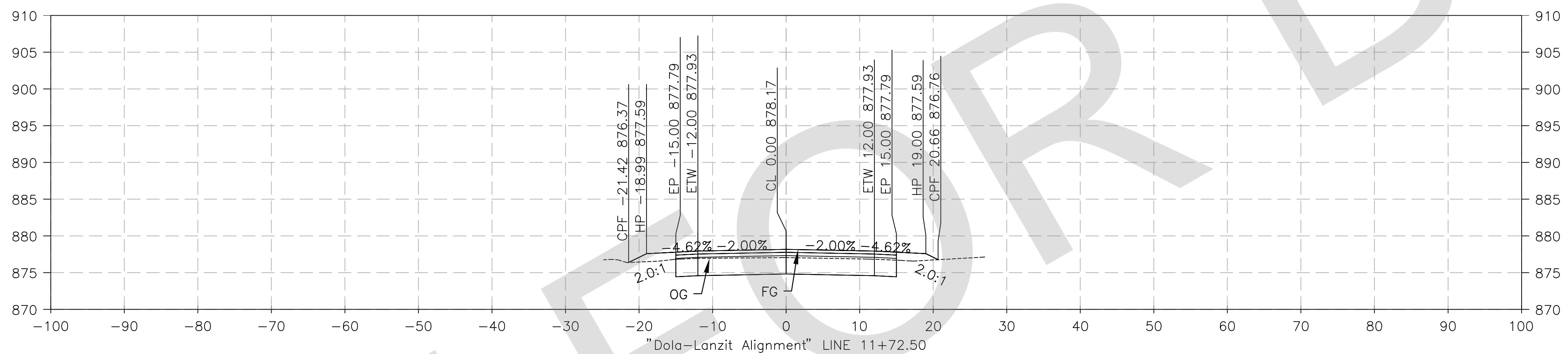
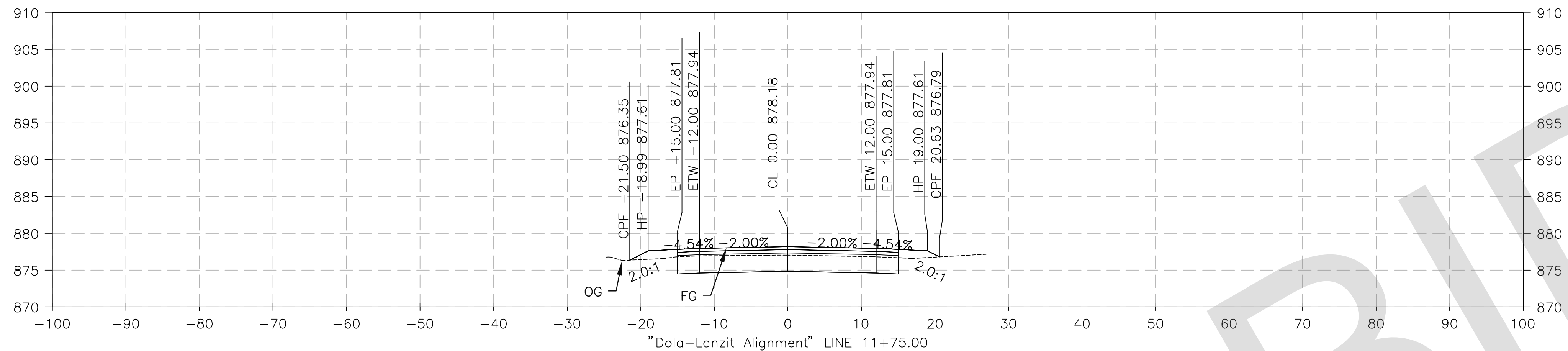
MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		

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				
DESIGN CROSS SECTION DOLA DITCH				
J.L. REF. J.L. 12145	W.O. NO. H15220	PLAN SCALE 1"=10'	SHT. NO. 38	TOT. SHT'S. 54



PREPARED BY:



MATTHEW ATKINSON, PROJECT ENGINEER
DATE: 05/23/24

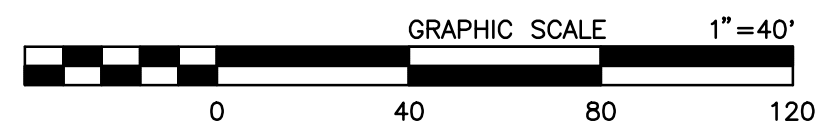
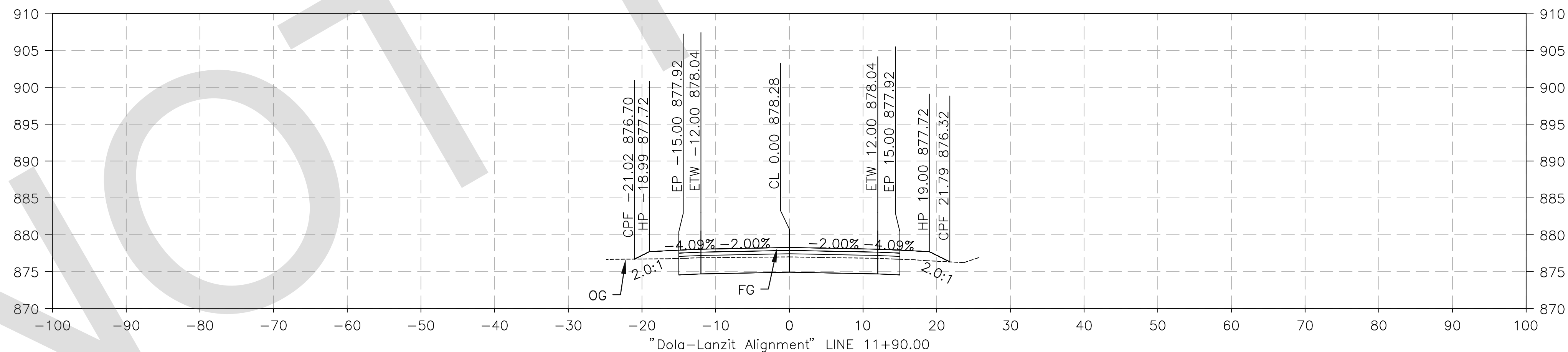
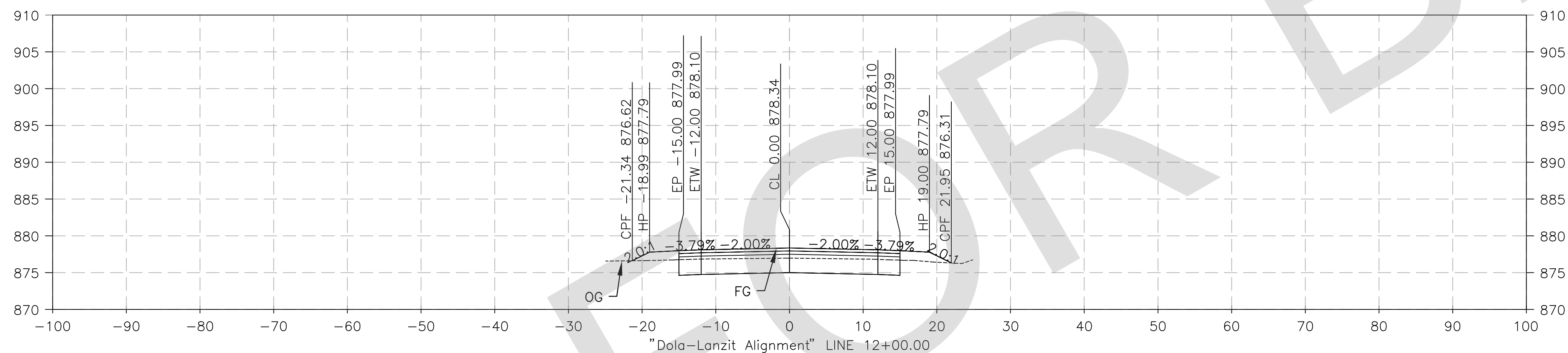
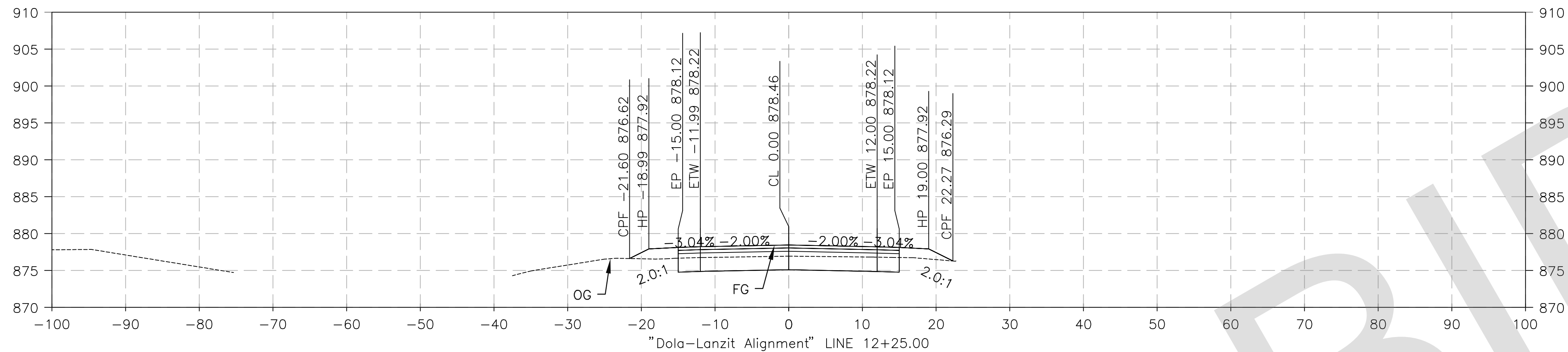
MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		

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 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				
DESIGN CROSS SECTION DOLA DITCH				
J.L. REF. J.L. 12145	W.O. NO. H15220	PLAN SCALE 1"=10'	SHT. NO. 39	TOT. SHT'S. 54



PREPARED BY:



MATTHEW ATKINSON, PROJECT ENGINEER
05/23/24 DATE

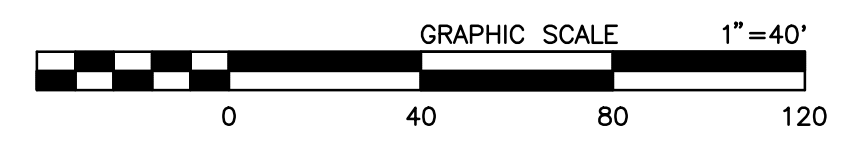
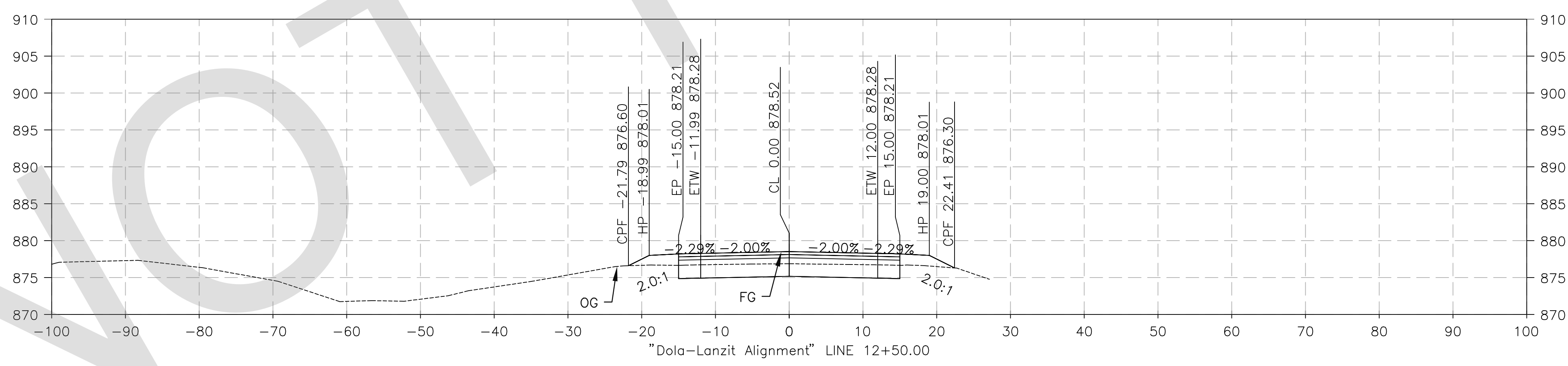
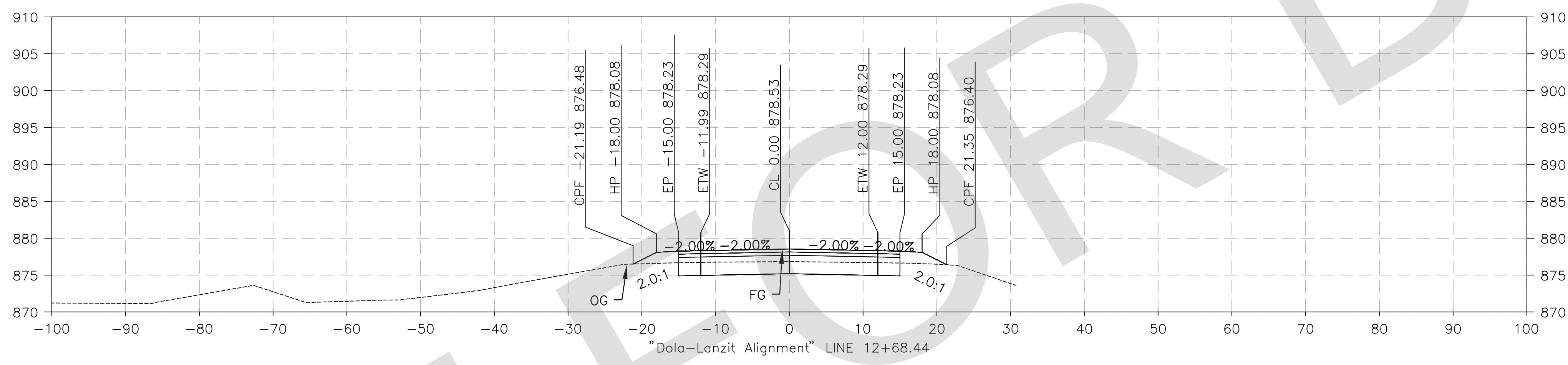
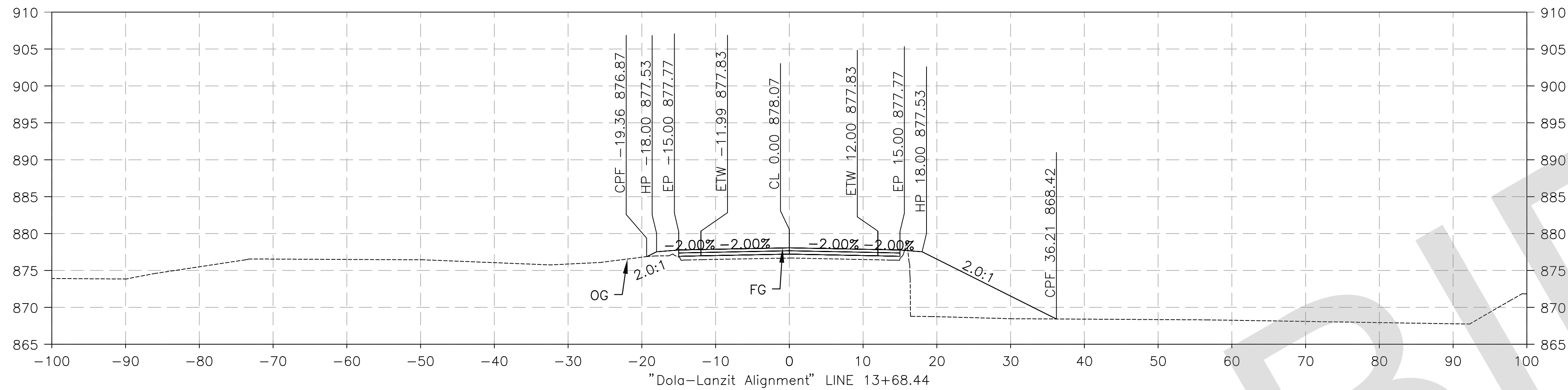
MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		

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				
DESIGN CROSS SECTION DOLA DITCH				
J.L. REF. J.L. 12145	W.O. NO. H15220	PLAN SCALE 1"=10'	SHT. NO. 40	TOT. SHT'S. 54

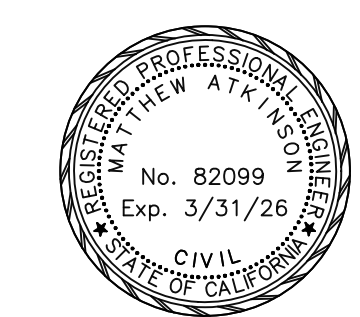


PREPARED BY:

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: 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

DESIGN CROSS SECTION DOLA DITCH

J.L. REF. J.L. 12145	W.O. NO. H15220	PLAN SCALE 1"=10'	SHT. NO. 41	TOT. SHT'S. 54
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