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ABBREVIATIONS:

AD	ALGEBRAIC DIFFERENCE
AP	ANGLE POINT
BB	BEGIN BRIDGE
BC	BEGIN CURVE
BVC	BEGIN VERTICAL CURVE
CL	CENTERLINE
CP	CATCH POINT
DOWC	DEL ORO WATER COMPANY
DR	DRIVE
DWY	DRIVEWAY
EB	END BRIDGE
EC	END CURVE
ELEC	ELECTRIC
ELEV	ELEVATION
EP	EDGE OF PAVEMENT
ETW	EDGE OF TRAVELED WAY
EVC	END OF VERTICAL CURVE
EXIST, (E)	EXISTING
FG	FINISHED GRADE
FRONTIER	FRONTIER COMMUNICATIONS
FS	FINISHED SURFACE
HORIZ	HORIZONTAL
HP	HINGE POINT
IE	INVERT ELEVATION
LT	LEFT
MGS	MIDWEST GUARDRAIL SYSTEM
N	NORTH
No.	NUMBER
OG	ORIGINAL GROUND
OH	OVERHEAD
PG	PROPOSED GRADE
PI	POINT OF INFLECTION
PVI	POINT OF VERTICAL INFLECTION
R/W	RIGHT OF WAY
RSP	ROCK SLOPE PROTECTION
RT	RIGHT
S	SOUTH
SAW	SAWCUT
SCE	SOUTHERN CALIFORNIA EDISON
SHLD	SHOULDER
STA	STATION
TELCOM	TELECOMMUNICATION
TCE	TEMPORARY CONSTRUCTION EASEMENT
UPRR	UNION PACIFIC RAILROAD
VAR	VARIABLE
VC	VERTICAL CURVE
VERT	VERTICAL

PROJECT CONTROL

THE COORDINATES AND BEARINGS SHOWN HEREON ARE BASED UPON THE CALIFORNIA COORDINATE SYSTEM OF 1983, CCS83, ZONE 4, (2017.50).

THE PROJECT ELEVATIONS SHOWN HEREON ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 COMPUTED USING GEOID18(Conus)

TO CONVERT GRID DISTANCE TO GROUND DISTANCE DIVIDE THE GRID DISTANCE BY 0.9998519894

PROJECT COORDINATES, BEARINGS, AND ELEVATIONS SHALL BE BASED ON THE TABLE BELOW:

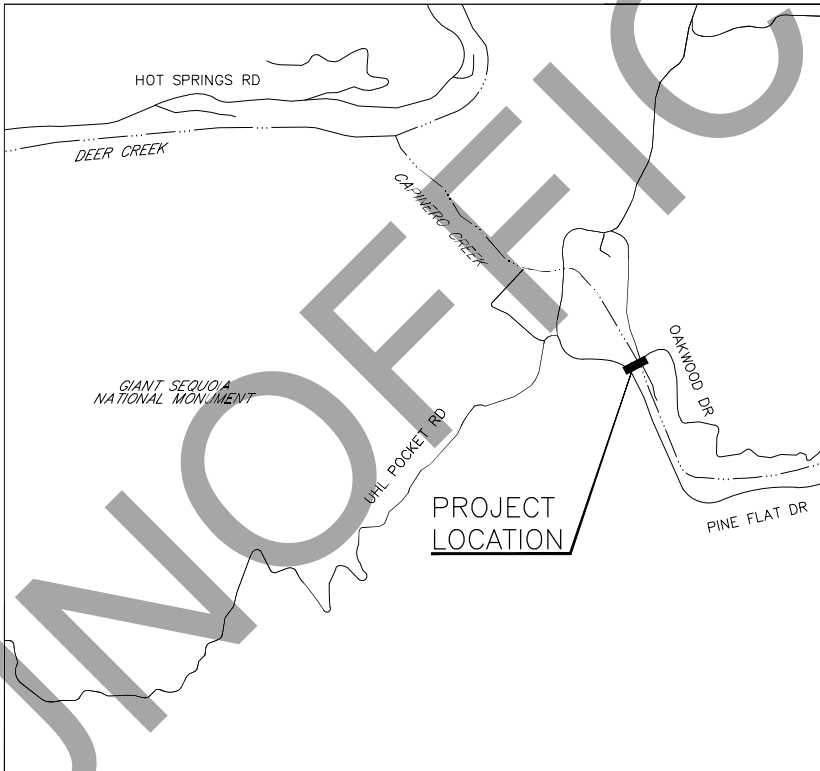
CONTROL TABLE				
POINT NO.	ELEVATION USFT	NORTHING USFT	EASTING USFT	POINT DESCRIPTION
1	3742.26	1837321.15	6665023.21	NO 5 REBAR TULARE CO CONTROL 0.1 4 FT SOUTH OF STREET POST LINE WITH POST & SLOW SIGN TO NORTH
2	3738.02	1837327.88	6665122.09	NO 5 REBAR TULARE CO CONTROL 0.5 4 FT NORTHEASTERLY OF SOUTHEAST END WINGWALL
3	3741.92	1837427.22	6665180.88	MAG — FLUSH 4.7 FT SOUTHERLY OF ROAD SIGN LINE WITH POST & WEST FACE REDWOOD WITH SIGNS
4	3734.10	1837577.42	6664945.97	NO 5 REBAR TULARE CO CONTROL 0.5 5 FT EAST OF EAST EDGE DRIVE PATH LINE WITH NORTH EDGE HOUSE TO WEST NO 156
5	3740.75	1837091.82	6665260.97	NO 5 REBAR TULARE CO CONTROL 0.7 5.7 FT NORTH OF EAST EDGE DOUBLE STUMP 16 FT SOUTH OF WEST GATE POST EAST SIDE ROAD
6	3743.09	1837202.01	6665206.78	MAG — FLUSH IN NORTHEASTERLY CORNER OF TOP OF BOULDER WEST OF SOUTH END BLOCK WALL TO EAST

STATE OF CALIFORNIA
COUNTY OF TULARE

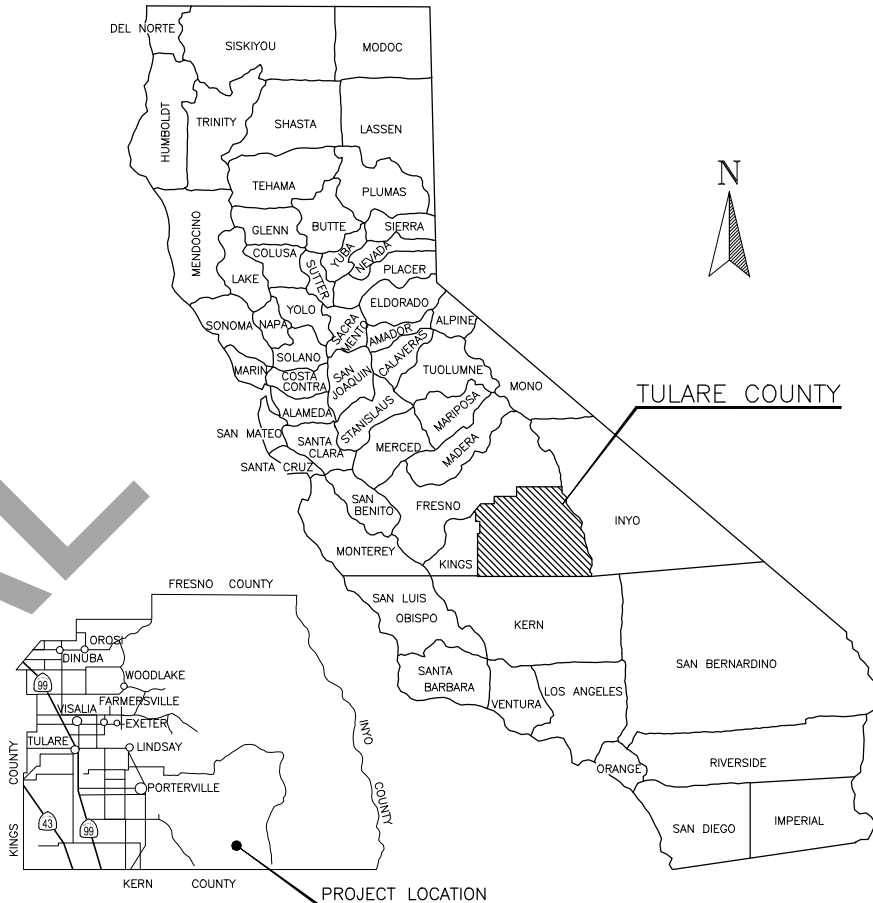
PROJECT PLANS FOR CONSTRUCTION OF
M46 W OAKWOOD DR OVER
CAPINERO CREEK

BRIDGE NO. 46C0488
FEMA LOCATION ID NO. 20

TO BE SUPPLEMENTED BY STANDARD PLANS AND STANDARD SPECIFICATIONS OF
THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION DATED 2022



VICINITY MAP
N.T.S.



LOCATION MAP

APPROVED BY: DATE:

DENNIS TOWNSEND — CHAIR
COUNTY OF TULARE BOARD OF SUPERVISORS

APPROVED BY: DATE: 9/18/23

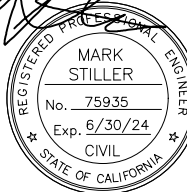
REED SCHENKE, PE — DIRECTOR
COUNTY OF TULARE RESOURCE MANAGEMENT AGENCY

SIGNED BY: DATE: 9/15/23

MARK STILLER, PE — PROJECT ENGINEER
NCM ENGINEERING CORPORATION

SIGNED BY: DATE: 9/15/23

STEVE MISLINSKI, PE — PROJECT MANAGER
NCM ENGINEERING CORPORATION



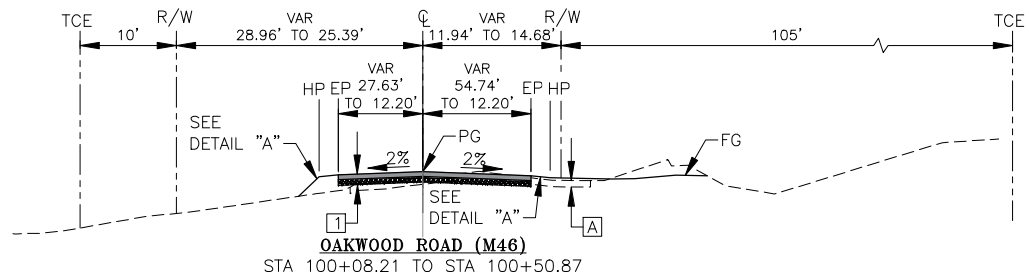
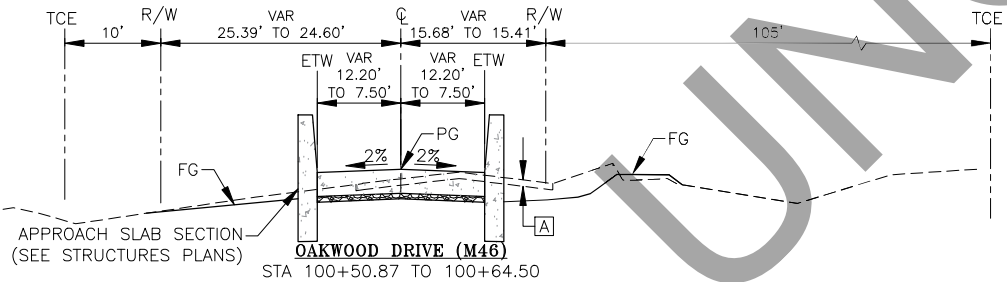
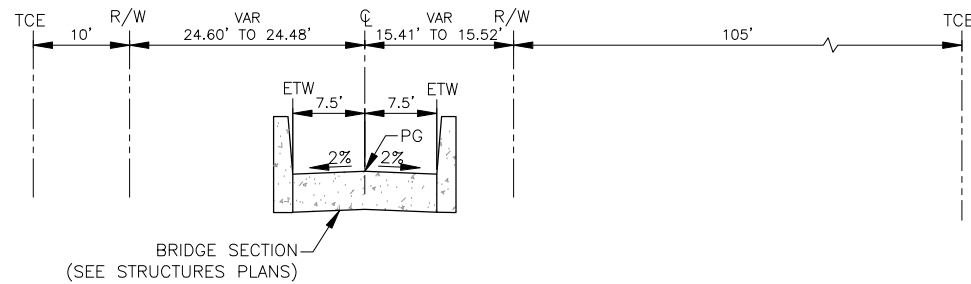
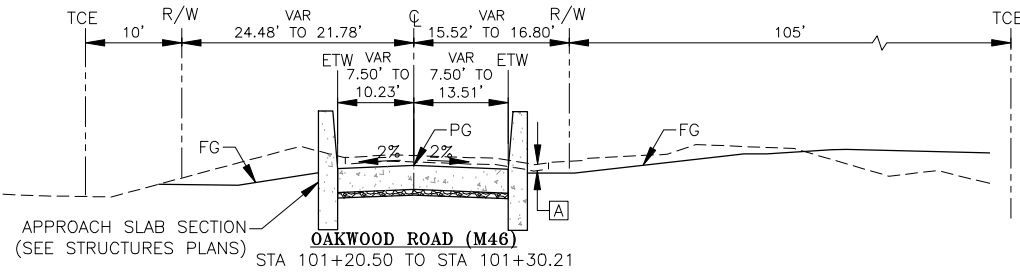
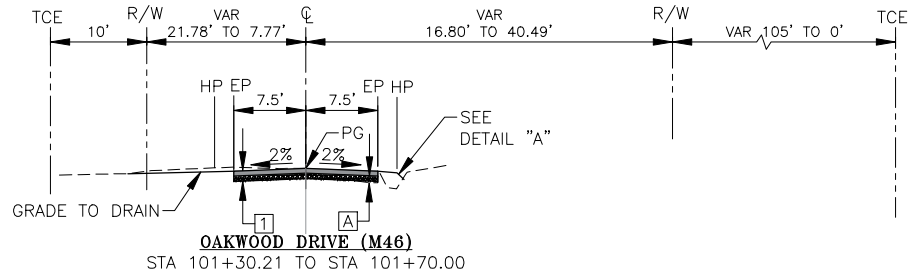
REVISIONS	DATE	BY
No.		

COUNTY OF TULARE
RESOURCE MANAGEMENT AGENCY
5961 SOUTH MOONEY BLVD.
VISALIA, CA 93277
(559) 624-7000
WWW.TULARECOUNTY.CA.GOV/RMA



TITLE SHEET
M46 W OAKWOOD DR
OVER CAPINERO CREEK
TULARE COUNTY

SCALE	NTS
DIVISION	—
JOB NO.	TULE2202
DESIGNED	RS
DRAWN	RS
CHECKED	DM
FILE	2202-1T001.DWG
DATE	09-15-23
SHEET No.	T1

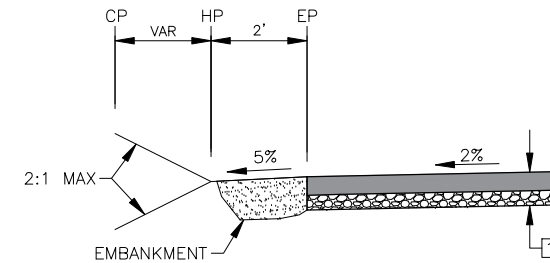
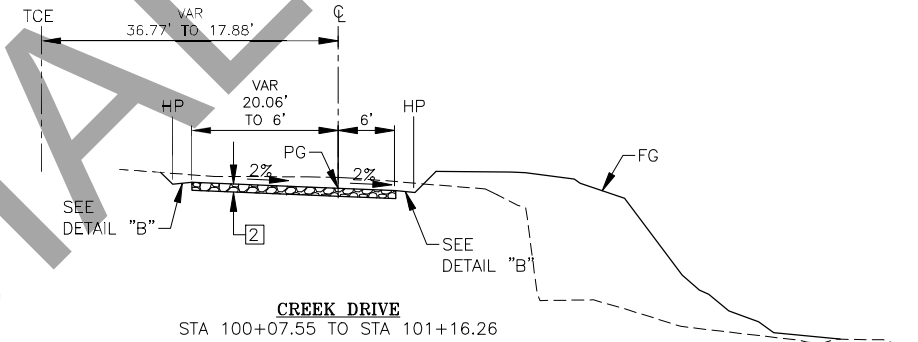


NOTES:

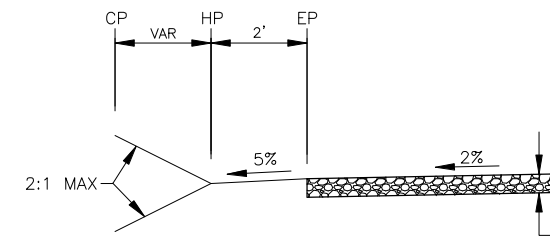
- DIMENSIONS OF THE STRUCTURAL SECTIONS ARE SUBJECT TO THE TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
- SEE PLAN AND PROFILE SHEETS FOR EXACT LOCATIONS OF FEATURES.

TYPICAL STRUCTURAL SECTIONS:

- 1 3" HMA (TYPE A)
4.5" AB (CLASS 2)
- 2 5" AB (CLASS 2)
- A EXISTING AC



DETAIL "A"
HINGE POINT AND
CATCH POINT FROM PAVED ROADWAY



DETAIL "B"
HINGE POINT AND
CATCH POINT FROM GRADED ROADWAY

David E. Melis

REGISTERED PROFESSIONAL ENGINEER
DAVID E. MELIS
No. C54383
Exp. 12/31/23
CIVIL
STATE OF CALIFORNIA

REVISIONS	DATE	BY

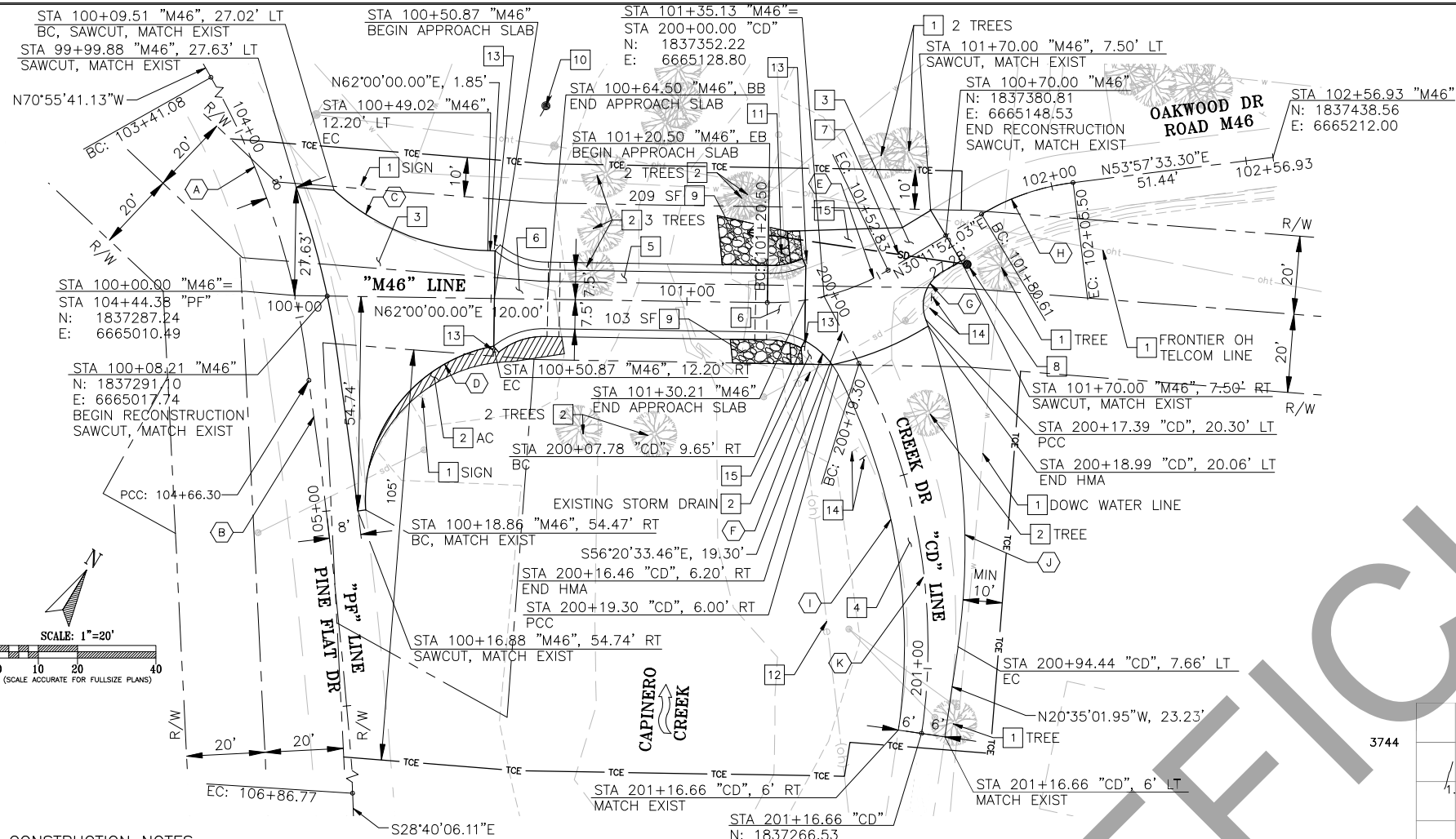
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RESOURCE MANAGEMENT AGENCY
5961 SOUTH MOONEY BLVD.
VISALIA, CA 93277
(559)624-7000
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TYPICAL CROSS SECTIONS
M46 W OAKWOOD DR
OVER CAPINERO CREEK
TULARE COUNTY

SCALE	H 1"=10' V 1"=5'
DIVISION	-
JOB NO.	TULE2202
DESIGNED	RS
DRAWN	RS
CHECKED	DM
FILE	2202-1X001.DWG
DATE	09-15-23
SHEET No.	X1

2 OF 17



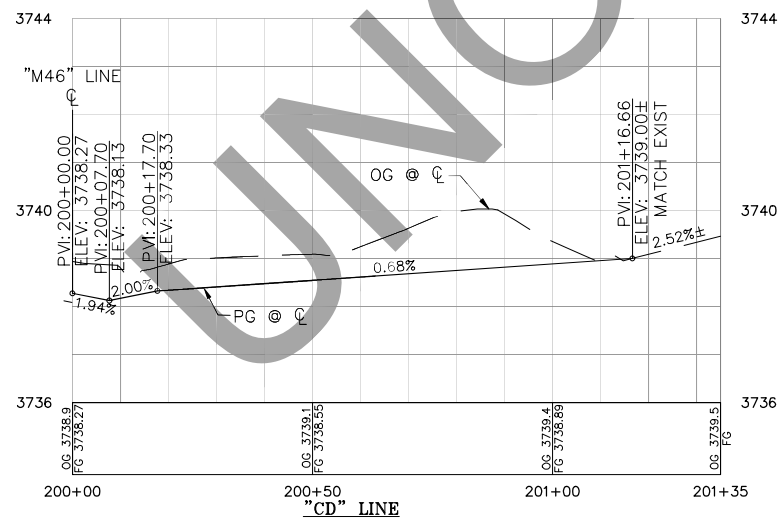
CONSTRUCTION NOTES:

- PROTECT IN PLACE
- REMOVE
- CONSTRUCT 3" HMA OVER 4.5" CLASS 2 AGGREGATE BASE
- CONSTRUCT GRADED ROAD
- BRIDGE (SEE STRUCTURE PLANS)
- BRIDGE APPROACH SLAB (SEE STRUCTURE PLANS)
- 18" CMP (SEE SHEET C2)
- MODIFIED CROSS DRAIN INLET WITH DEBRIS RACK CAGE (SEE SHEET C2)
- ROCK SLOPE PROTECTION (SEE SHEET C2)
- POWER POLE INSTALLED BY SCE
- REMOVE TREE/POWER POLE BY OTHERS
- RELOCATE SCE OH ELEC LINE BY OTHERS
- INSTALL TYPE "P" MARKER
- RELOCATE SIGN
- AC OVERLAY (3" HMA OVER 4.5" CLASS 2 AGGREGATE BASE, SEE SHEET C2 FOR DETAILS)

LEGEND:

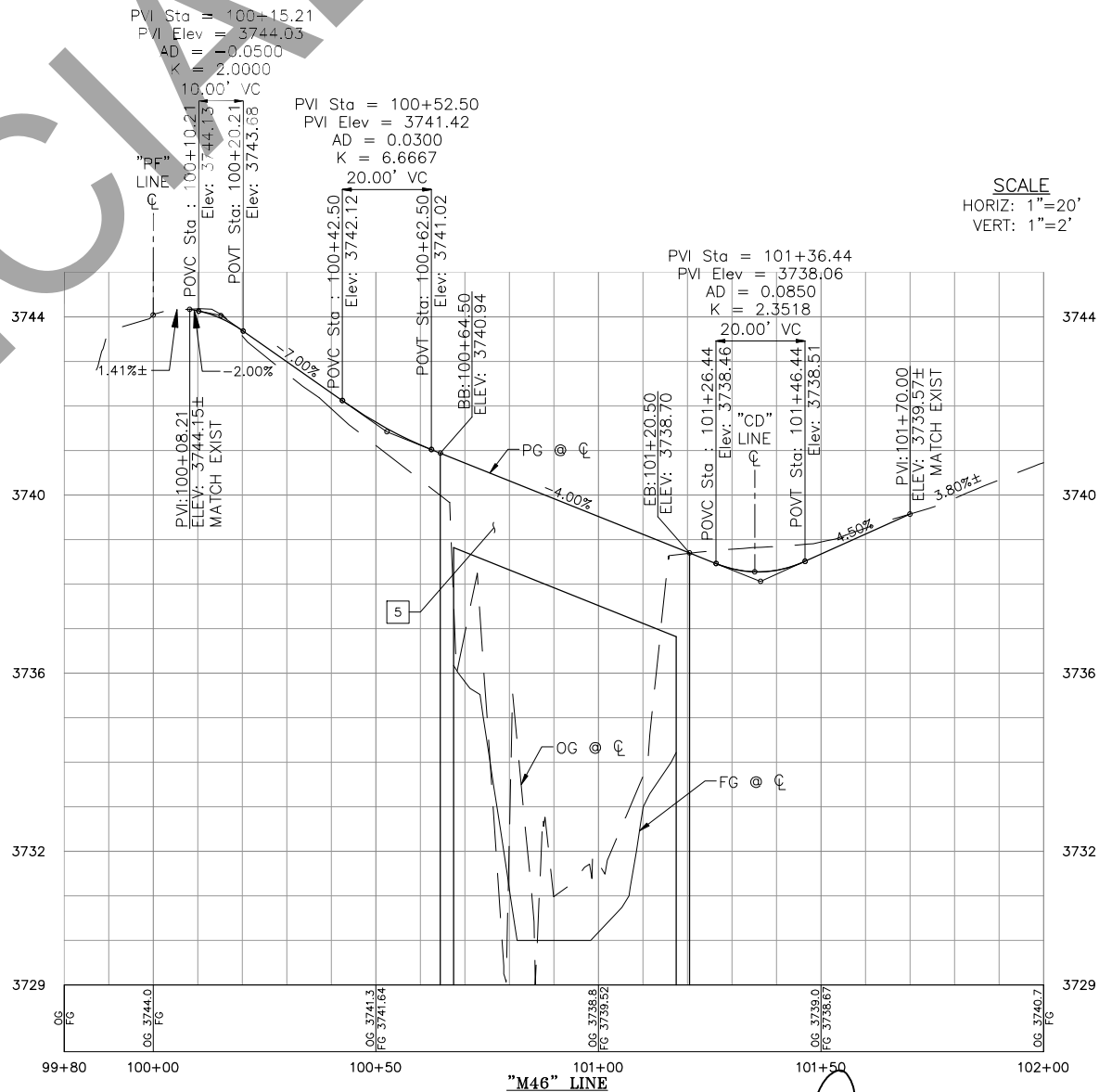
- EX R/W
- EX DOWC WATER LINE (VERIFY LOCATION AND DEPTH)
- EX SCE OH ELEC LINE
- EX FRONTIER OH TELCOM LINE
- PROPOSED TCE
- PROPOSED ROADWAY CONTROL LINE
- PROPOSED RSP (SEE SHEET C2)
- EX AC REMOVAL LIMITS
- EX TREE

PLAN VIEW



SCALE
HORIZ: 1"=20'
VERT: 1"=2'

CURVE DATA TABLE			
#	DELTA	LENGTH	RADIUS
A	35°52'27"	125.22'	200'
B	8°25'16"	220.47'	1500'
C	41°08'12"	43.08'	60'
D	83°00'41"	57.95'	40'
E	31°48'08"	32.33'	58.24'
F	35°10'16"	12.28'	20'
G	83°05'34"	14.53'	10'
H	23°45'41"	24.88'	60'
I	35°45'31"	93.62'	150'
J	26°17'54"	80.32'	175'
K	35°45'31"	97.36'	156'



SCALE
HORIZ: 1"=20'
VERT: 1"=2'

REVISIONS

No.	DATE	BY

COUNTY OF TULARE
RESOURCE MANAGEMENT AGENCY
5961 SOUTH MOONEY BLVD.
VISALIA, CA 93277
(559)624-7000
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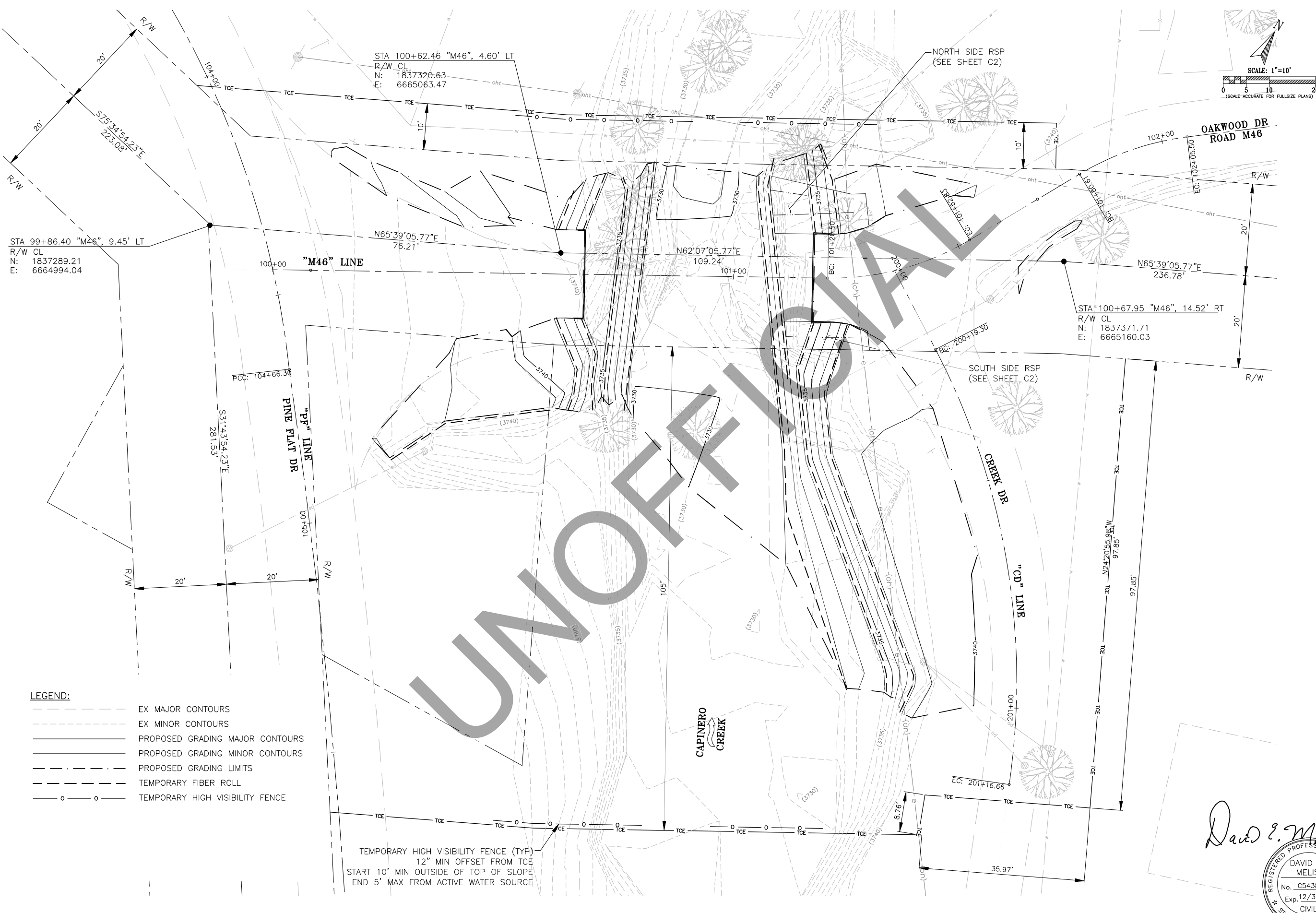


PLAN AND PROFILE

M46 W OAKWOOD DR
OVER CAPINERO CREEK
TULARE COUNTY

SCALE 1"=20'
DIVISION -
JOB NO. TULE2202
DESIGNED RS
DRAWN RS
CHECKED DM
FILE 2202-1L001.DWG
DATE 09-15-23
SHEET No.

L1



- LEGEND:**
- EX MAJOR CONTOURS
 - EX MINOR CONTOURS
 - PROPOSED GRADING MAJOR CONTOURS
 - PROPOSED GRADING MINOR CONTOURS
 - PROPOSED GRADING LIMITS
 - TEMPORARY FIBER ROLL
 - o o TEMPORARY HIGH VISIBILITY FENCE

TEMPORARY HIGH VISIBILITY FENCE (TYP)
12" MIN OFFSET FROM TCE
START 10' MIN OUTSIDE OF TOP OF SLOPE
END 5' MAX FROM ACTIVE WATER SOURCE

David E. Melis
REGISTERED PROFESSIONAL ENGINEER
DAVID E. MELIS
No. C54383
Exp. 12/31/23
CIVIL
STATE OF CALIFORNIA

REVISIONS	
No.	DESCRIPTION

COUNTY OF TULARE
RESOURCE MANAGEMENT AGENCY

5961 SOUTH MOONEY BLVD.
VISALIA, CA 93277
(559) 624-7000
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GRADING PLANS

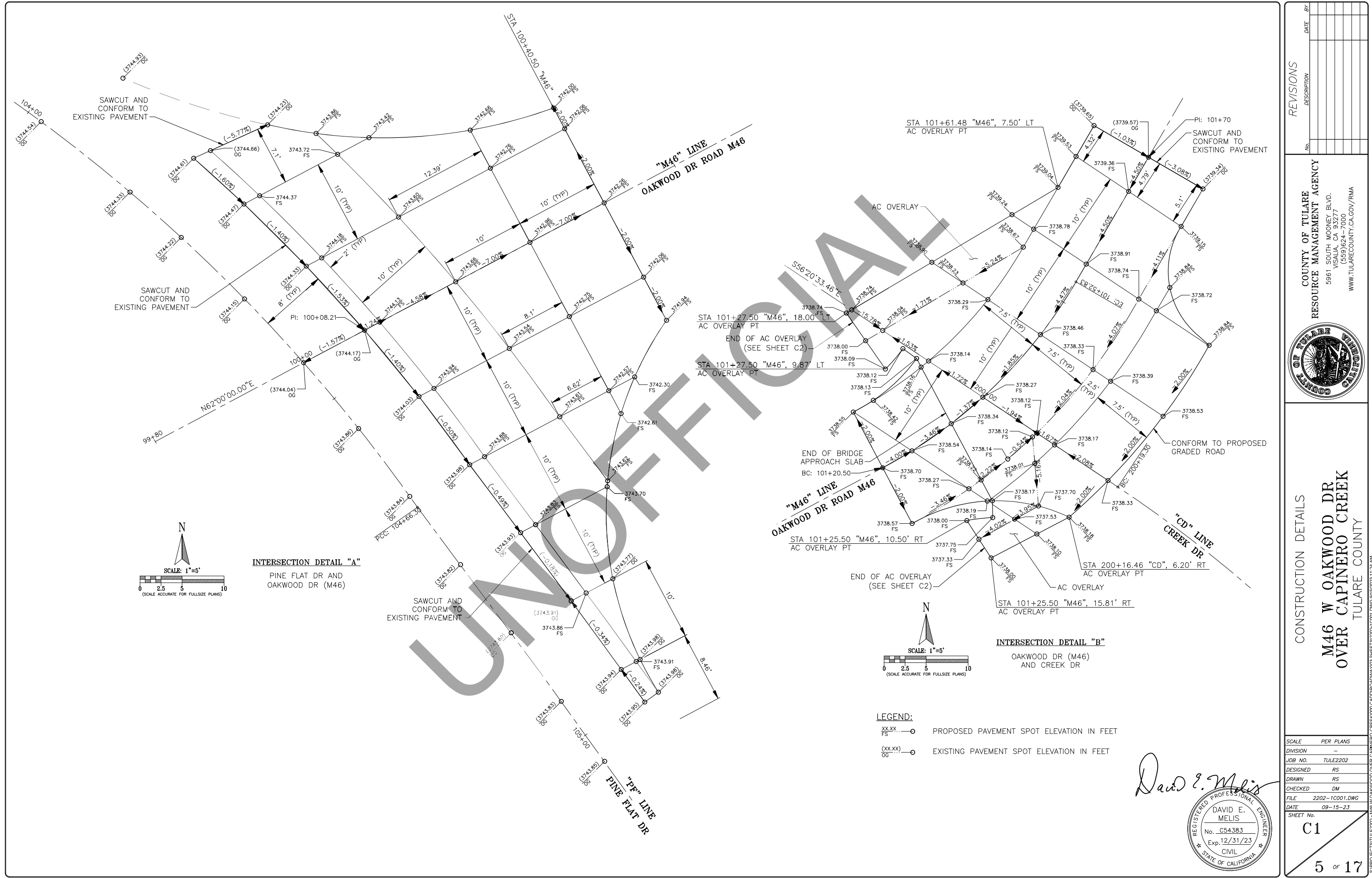
**M46 W OAKWOOD DR
OVER CAPINERO CREEK**

TULARE COUNTY

SCALE	1"=10'
DIVISION	-
JOB NO.	TULE2202
DESIGNED	RS
DRAWN	RS
CHECKED	DM
FILE	2202-1G001.DWG
DATE	09-15-23
SHEET No.	G1

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S:\PROJECTS\TULE2202 - M46 W OAKWOOD OVER CAPINERO CREEK\00 CAD\ROADWAY\03 SHEETS\2202-1G001.DWG 9/15/2023 11:23 AM



REVISIONS	
DATE	BY

COUNTY OF TULARE
RESOURCE MANAGEMENT AGENCY

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VISALIA, CA 93277
(559) 624-7000
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CONSTRUCTION DETAILS

M46 W OAKWOOD DR
OVER CAPINERO CREEK
TULARE COUNTY

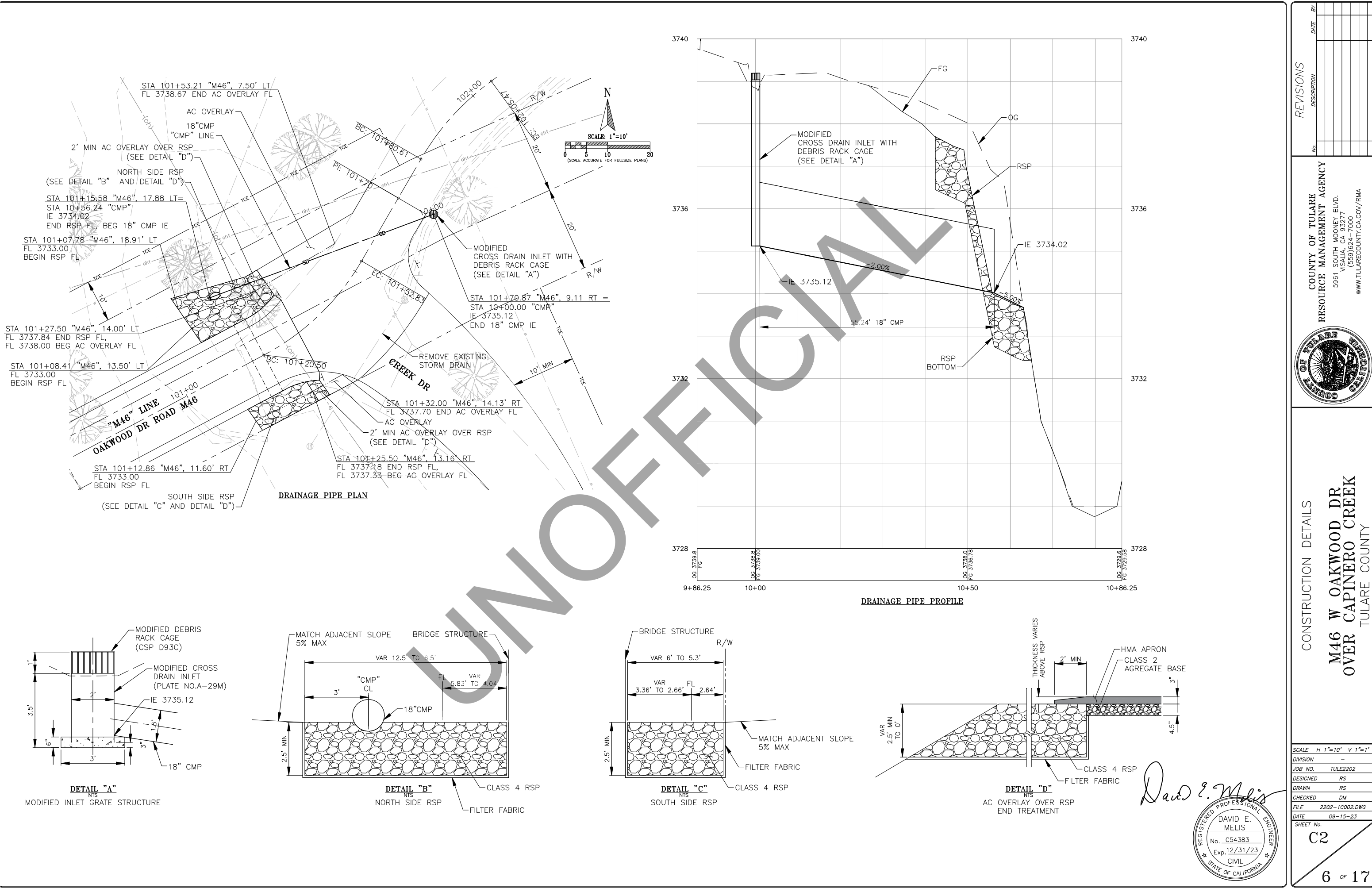
SCALE PER PLANS
DIVISION -
JOB NO. TULE2202
DESIGNED RS
DRAWN RS
CHECKED DM
FILE 2202-1C001.DWG
DATE 09-15-23
SHEET No.

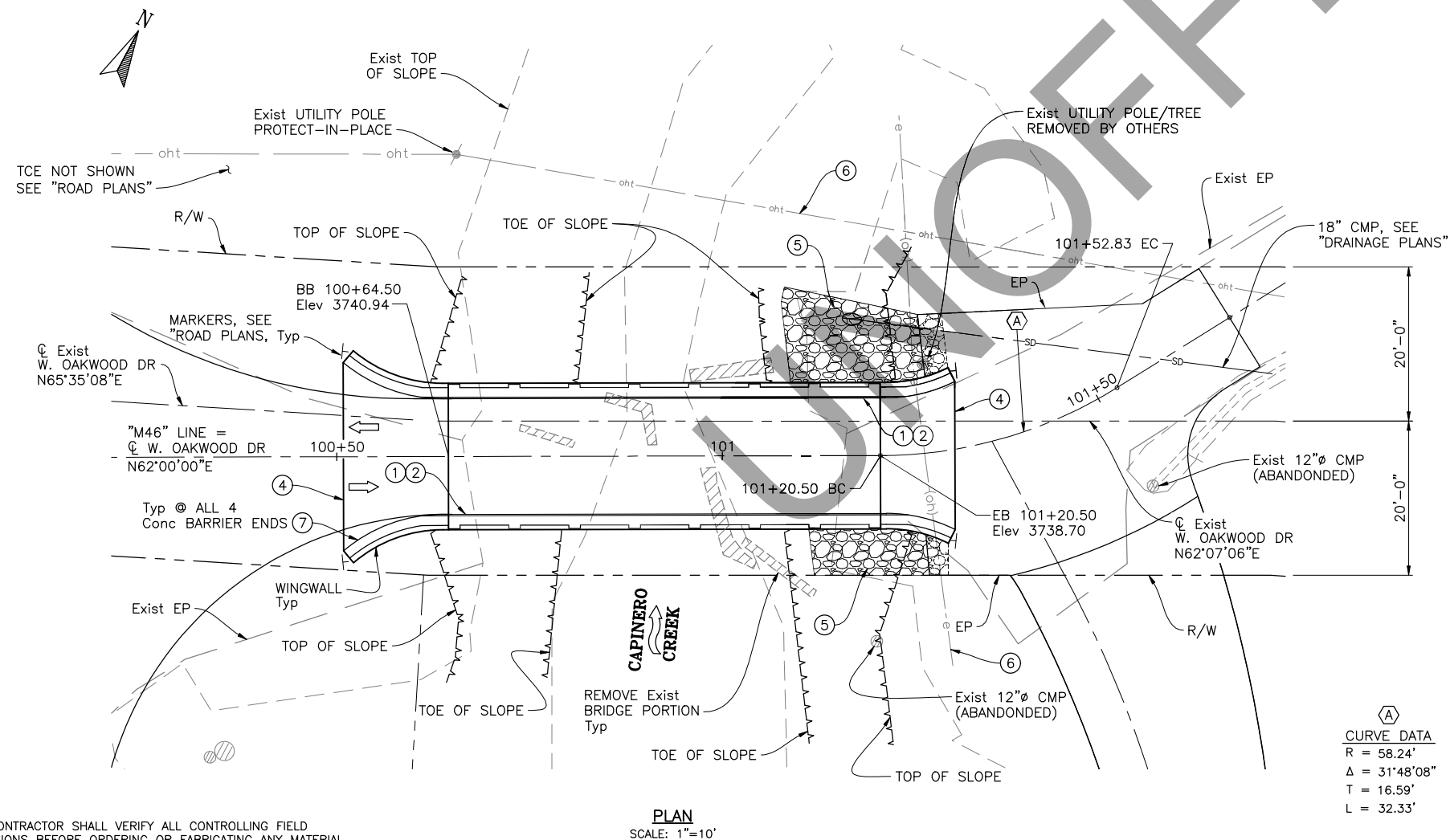
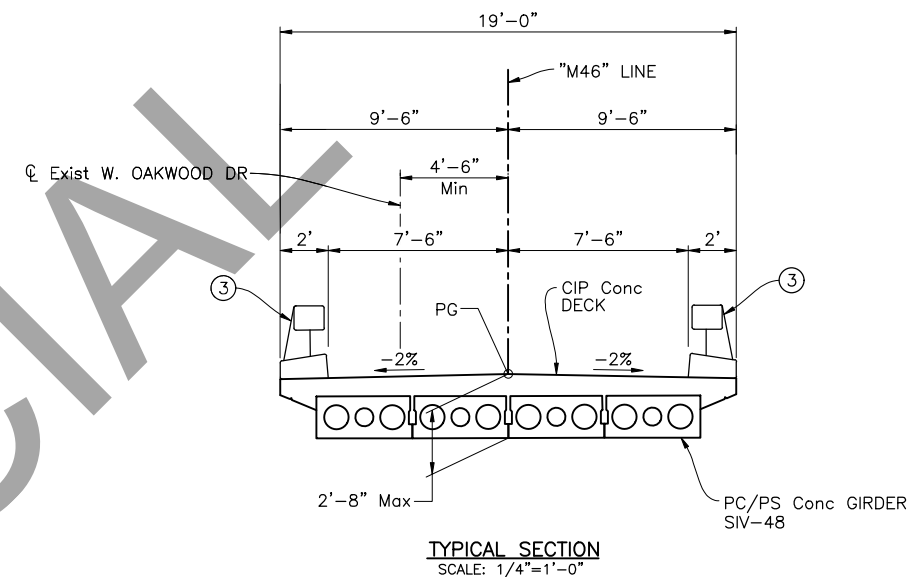
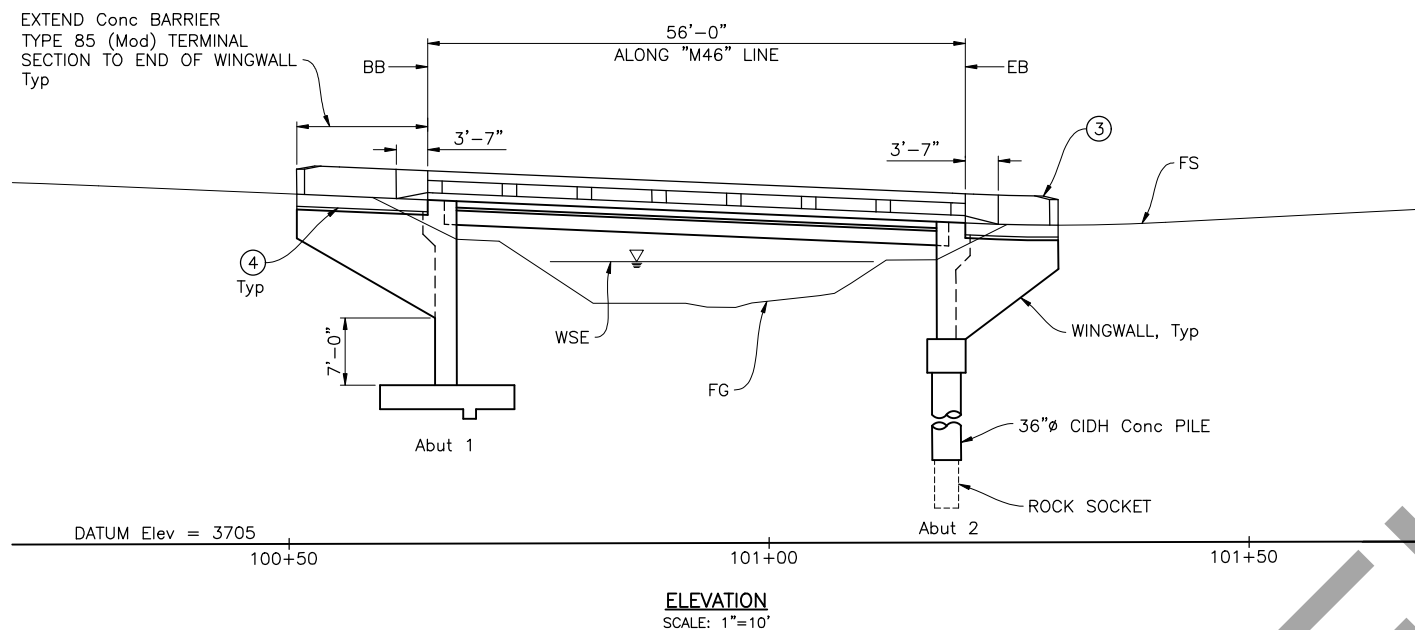
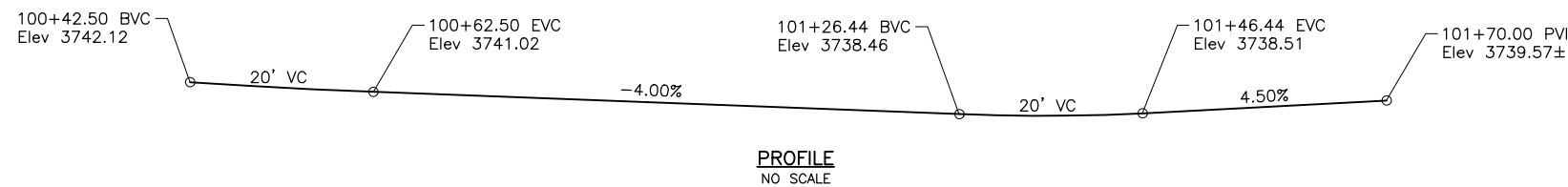
C1

5 OF 17

DAVID E. MELIS
REGISTERED PROFESSIONAL ENGINEER
No. C54383
Exp. 12/31/23
CIVIL
STATE OF CALIFORNIA

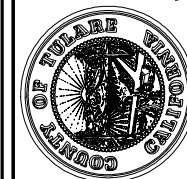
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- LEGEND

- | | |
|---|--|
|  | DIRECTION OF TRAVEL |
|  | EXIST STRUCTURE TO BE REMOVED |
|  | NEW CONSTRUCTION |
|  | DIRECTION OF WATER FLOW |
| ① | DATE STAMP PROVIDED BY COUNTY |
| ② | PAINT "BRIDGE NO. 46C0488" |
| ③ | CONCRETE BARRIER, TYPE 85 (Mod) |
| ④ | STRUCTURE APPROACH, TYPE N30 (Mod) |
| ⑤ | RSP, SEE "DRAINAGE PLANS" |
| ⑥ | FOR UTILITY DATA, REMOVALS & OTHER INFORMATION NOT SHOWN, SEE "FOUNDATION PLAN". |
| ⑦ | ARCHITECTURAL BARRIER TREATMENT, FOR DETAILS SEE "INDEX TO PLANS" SHEET. |

[illegible]

NCM NCM ENGINEERING CORPORATION
1322 E. SHAW AVE., SUITE 340
FRESNO, CA 93710
559-492-3016

GENERAL PLAN
M46 W OAKWOOD DR
OVER CAPINERO CREEK
TULARE COUNTY

SCALE	PER PLAN
DIVISION	-
JOB NO.	2202
DESIGNED	AL
DRAWN	RA
CHECKED	LM
FILE	2202-15001GP.DWG
DATE	9/15/23

S:

8 OF 17

GENERAL NOTES
LOAD AND RESISTANCE FACTOR DESIGN

Design: AASHTO LFRD Bridge Design Specifications, 8th Edition with California Amendments Dated October, 2022

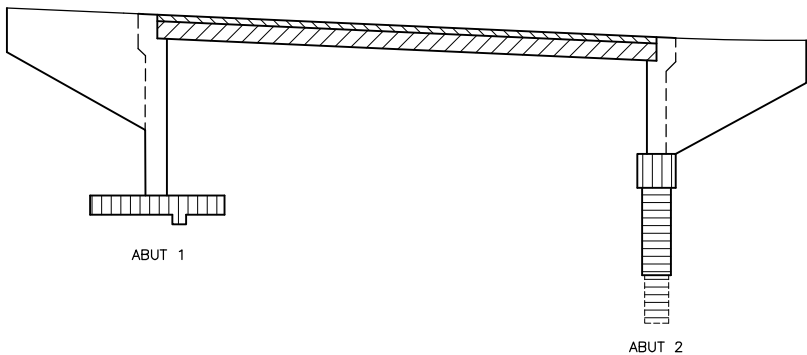
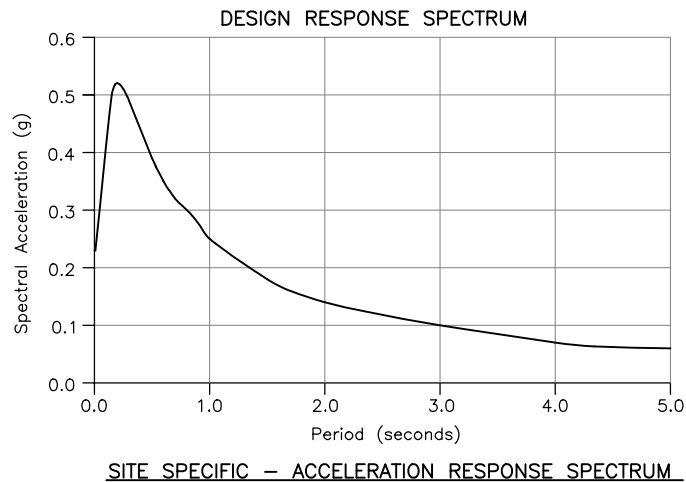
Seismic Design: Caltrans Seismic Design Criteria (SDC) Version 2.0 dated April 2019 with Interim Revisions Dated October 2019 and Errata Dated July 2020

Dead Load: Includes 35 psf for future wearing surface.

Live Load: HL-93 and permit design load.

Seismic Loading: Caltrans SDC and Caltrans ARS Online Tools
Soil Profile: $V_{s30} = 318$ m/s
Magnitude: 6.9
Peak Ground Acceleration = 0.23g

Reinforced $f_y = 60$ ksi
Concrete: $f'_c = 3.6$ ksi @ 28 days, Unless Otherwise Noted



CONCRETE STRENGTH AND TYPE LIMITS

- Structural Concrete, Bridge ($f'_c = 4.0$ ksi @ 28 days)
- Structural Concrete, Bridge Footing ($f'_c = 4.5$ ksi @ 28 days)
- Structural Concrete, Bridge (Polymer Fiber) ($f'_c = 4.0$ ksi @ 28 days)
- Precast Prestressed Concrete Girder, See "GIRDER DETAILS" sheet
- Structural Concrete, CIDH Concrete Pile ($f'_c = 4.0$ ksi @ 28 days)

INDEX TO BRIDGE PLANS

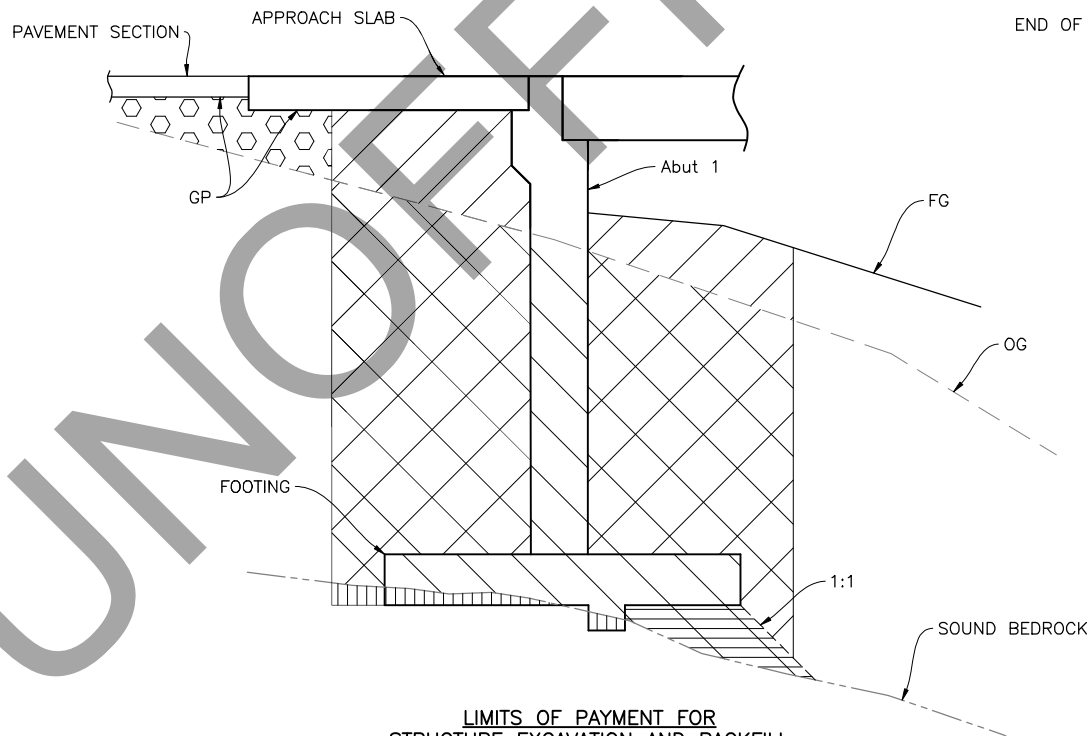
SHEET TITLE	TITLE
S1	GENERAL PLAN
S2	GENERAL NOTES
S3	DECK CONTOURS
S4	FOUNDATION PLAN
S5	ABUTMENT 1 LAYOUT
S6	ABUTMENT 2 LAYOUT
S7	MISCELLANEOUS DETAILS
S8	TYPICAL SECTION
S9	GIRDER DETAILS
S10	LOG OF TEST BORINGS

CALTRANS STANDARD PLANS, 2022 EDITION

A3A	ABBREVIATIONS (Sheet 1 of 2)
A3B	ABBREVIATIONS (Sheet 2 of 2)
A3C	ABBREVIATIONS (Sheet 3 of 3)
A10A	LEGEND - LINE AND SYMBOLS (Sheet 1 of 5)
A10B	LEGEND - LINE AND SYMBOLS (Sheet 2 of 5)
A10C	LEGEND - LINE AND SYMBOLS (Sheet 3 of 5)
A10D	LEGEND - LINE AND SYMBOLS (Sheet 4 of 5)
A10E	LEGEND - LINE AND SYMBOLS (Sheet 5 of 5)
A62C	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL - BRIDGE
B0-1	BRIDGE DETAILS
B0-3	BRIDGE DETAILS
B0-13	BRIDGE DETAILS
B6-21	JOINT SEALS (MAXIMUM MOVEMENT RANGE = 2")
B7-1	BOX GIRDER DETAILS
B9-1	STRUCTURE APPROACH - TYPE N (30)
B9-5	STRUCTURE APPROACH - SLAB 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. 2

INDICATES CALTRANS STANDARD PLAN NUMBER

INDICATES DETAIL NUMBER



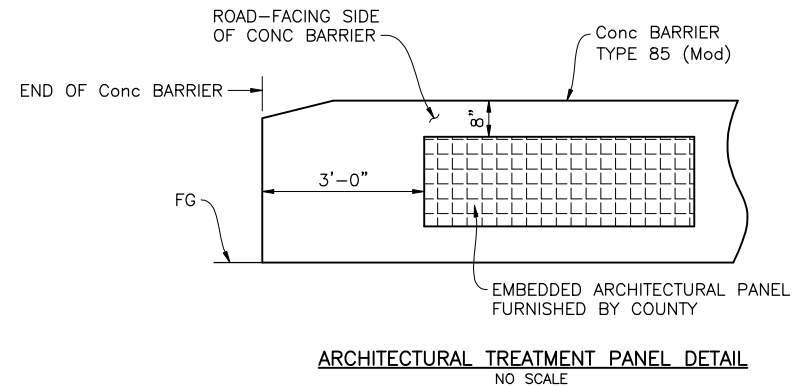
LIMITS OF PAYMENT FOR
STRUCTURE EXCAVATION AND BACKFILL
NO SCALE

LEGEND

- STRUCTURE EXCAVATION (BRIDGE)
- ROCK EXCAVATION
- STRUCTURE BACKFILL (BRIDGE)
- MINOR CONCRETE (BACKFILL)
- ROADWORK EARTHWORK, SEE "ROAD PLANS"

DESIGNER ASSUMED CONSTRUCTION SEQUENCE

- CONSTRUCT FOUNDATIONS AND ABUTMENTS UP TO GIRDER SEAT ELEVATION.
 - BACKFILL ABUTMENT 1. ABUTMENT 2 NOT BACKFILLED.
 - ERECT GIRDERS ON ABUTMENT SEATS.
 - CAST DECK CONCRETE UP TO GIRDER ENDS.
 - CAST REMAINDER OF ABUTMENT AT GIRDER ENDS.
 - BACKFILL ABUTMENT 2.
 - CONSTRUCT APPROACH SLABS, CONCRETE BARRIER, AND ALL OTHER REMAINING WORK.
- NOTE:
AT STEP 2, ABUTMENT 2 MAY BE PARTIALLY BACKFILLED IF THE FILL ELEVATION ON THE INSIDE AND OUTSIDE FACE MAINTAINED AT 2'-0" OF DIFFERENTIAL ELEVATION OR LESS.



REVISIONS	DATE	BY

TULARE COUNTY
RESOURCE MANAGEMENT
AGENCY

5961 SOUTH MOONEY BLVD.
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CORPORATION
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FRESNO, CA 93710
559-492-3016

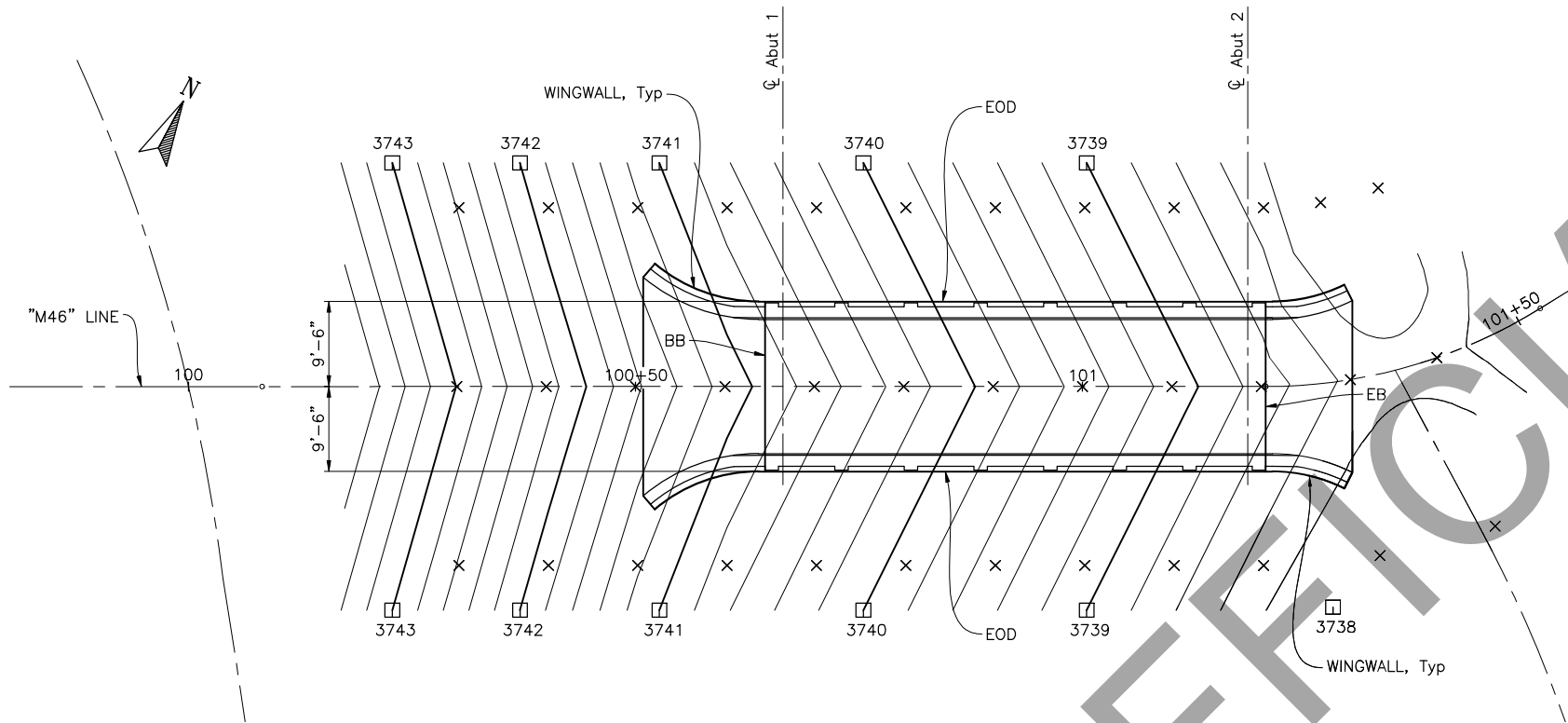
GENERAL NOTES

M46 W OAKWOOD DR
OVER CAPINERO CREEK
TULARE COUNTY

SCALE	PER PLAN
DIVISION	-
JOB NO.	2202
DESIGNED	AL
DRAWN	RA
CHECKED	LM
FILE	2202-15002GN.DWG
DATE	9/15/23
SHEET No.	S2

9 OF 17

2202-15002GN.DWG 9/15/2023 11:16 AM



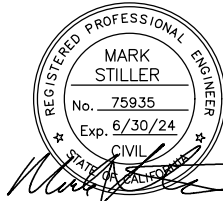
DECK CONTOUR PLAN
SCALE: 1"=10'

LEGEND:

× INDICATES 10' INTERVALS ALONG "M46" LINE

□ = INDICATES 1.0' CONTOURS

CONTOUR INTERVAL IS 0.2'
CONTOURS DO NOT INCLUDE CAMBER



DECK CONTOURS

**M46 W OAKWOOD DR
OVER CAPINERO CREEK**
TULARE COUNTY

NCM
NCM ENGINEERING
CORPORATION
1322 E. SHAW AVE, SUITE 340
FRESNO, CA 93710
559-492-3016

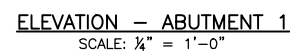
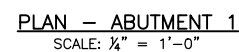


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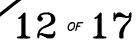
REVISIONS

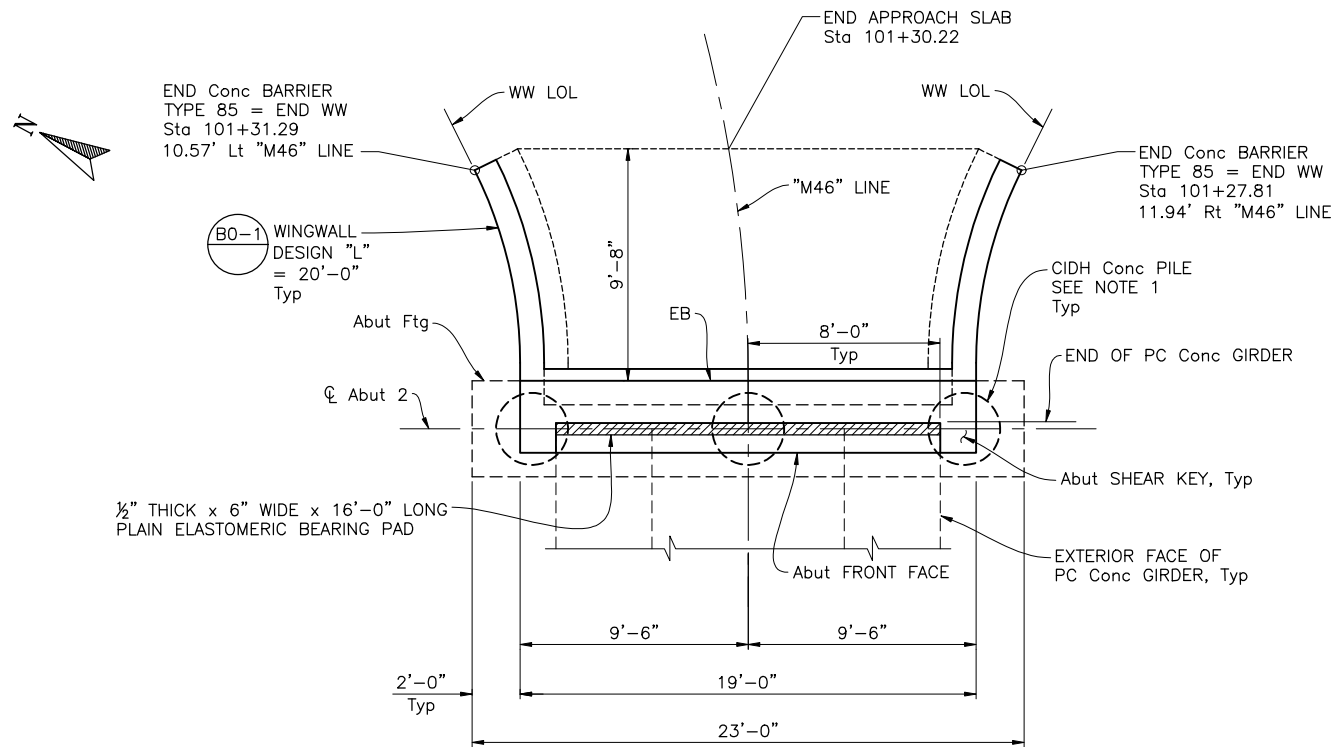
No.	DESCRIPTION	DATE	BY

SCALE	PER PLAN
DIVISION	-
JOB NO.	2202
DESIGNED	AL
DRAWN	RA
CHECKED	LM
FILE	2202-15003DC.DWG
DATE	9/15/23
SHEET No.	S3

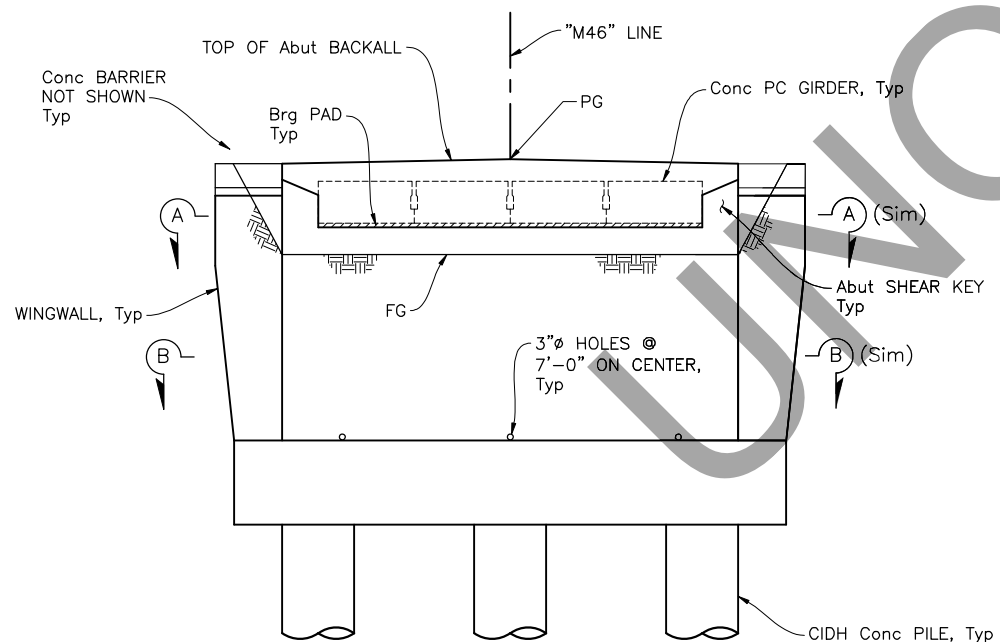


- ABUTMENT 1 TYPICAL SECTION
SCALE: 1/2" = 1'-0"

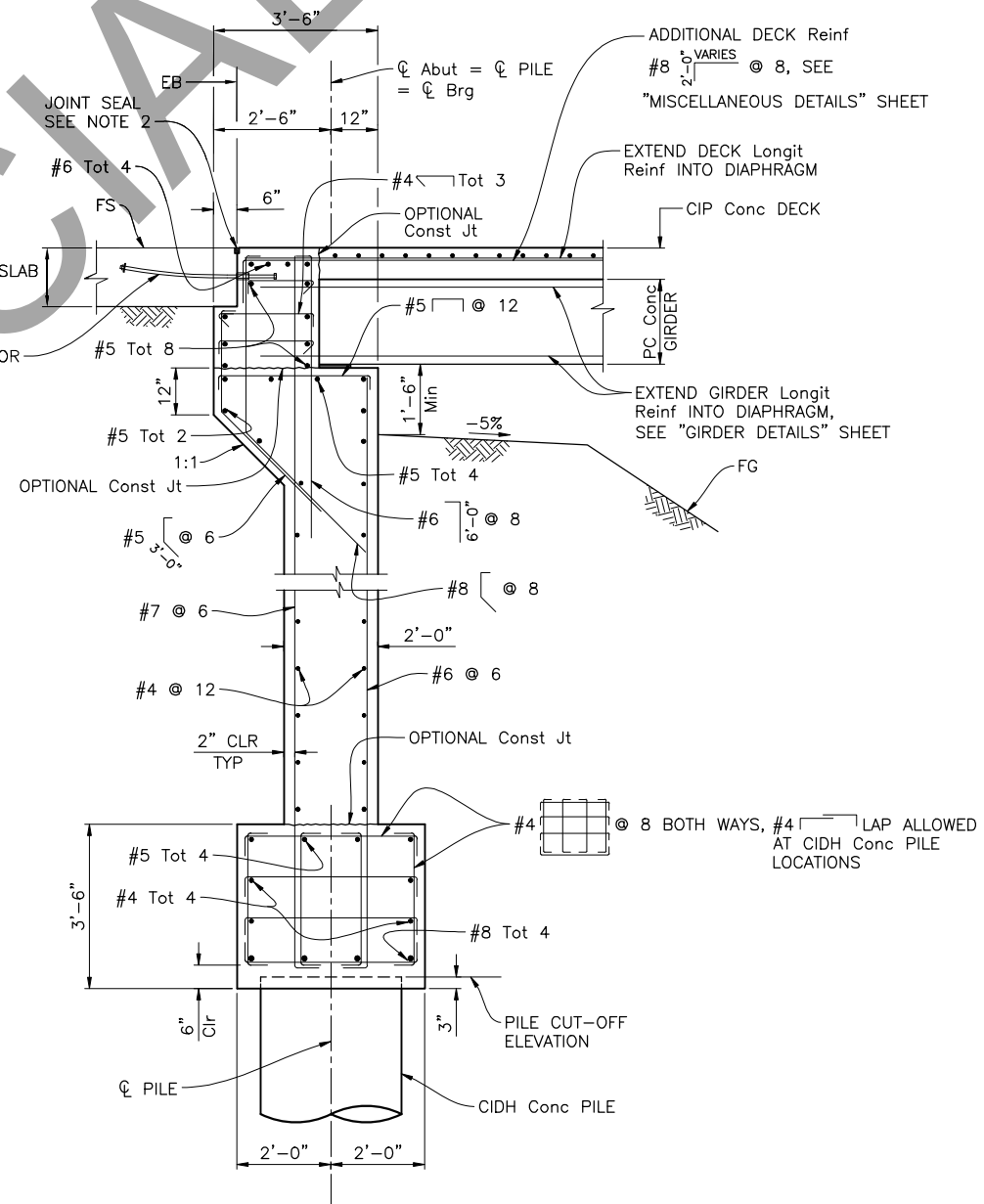




PLAN - ABUTMENT 2
SCALE: 1/4" = 1'-0"



ELEVATION - ABUTMENT 2
SCALE: 1/4" = 1'-0"



ABUTMENT 2 TYPICAL SECTION
SCALE: 1/2" = 1'-0"

NOTES:

- FOR PILE SPACING, SEE "FOUNDATION PLAN" SHEET.
- FOR "SECTION A-A" & "SECTION B-B", SEE "MISCELLANEOUS DETAILS" SHEET.
- FOR JOINT SEAL DETAILS, SEE CALTRANS STANDARD PLAN B9-1 MR = 1/2".

REVISIONS		DATE	BY
No.	DESCRIPTION		

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NCM
ENGINEERING
CORPORATION

1322 E. SHAW AVE, SUITE 340
FRESNO, CA 93710
559-492-3016

ABUTMENT 2 LAYOUT

M46 W OAKWOOD DR
OVER CAPINERO CREEK

TULARE COUNTY

SCALE	PER PLAN
DIVISION	-
JOB NO.	2202
DESIGNED	AL
DRAWN	RA
CHECKED	LM
FILE	2202-15006AB2.DWG
DATE	9/15/23
SHEET No.	S6

REGISTERED PROFESSIONAL ENGINEER

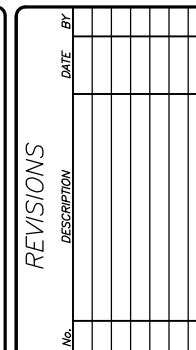
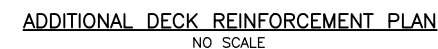
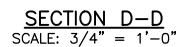
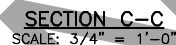
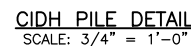
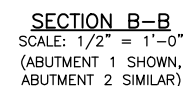
MARK STILLER

No. 75935

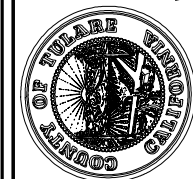
Exp. 6/30/24

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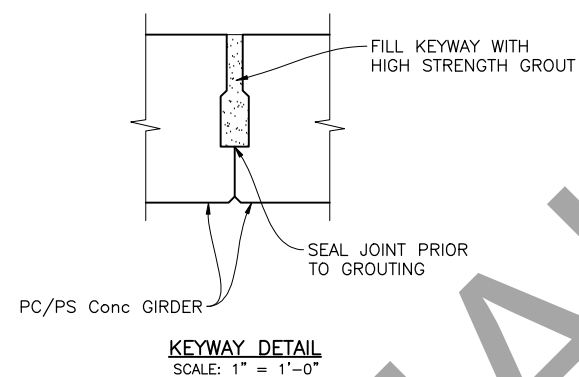
MISCELLANEOUS DETAILS

M46 W OAKWOOD DRIVE
OVER CAPINERO CREEK
TULARE COUNTY

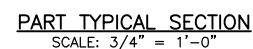
SCALE	PER PLAN
DIVISION	-
JOB NO.	2202
DESIGNED	AL
DRAWN	RA
CHECKED	LM
FILE	2202-1S007MSC1.DWG
DATE	9/15/23
SHEET No.	

S7

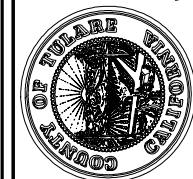
14 OF 17



1. FOR PC/PS Conc GIRDER DETAILS, SEE "GIRDER DETAILS" SHEET.
2. DOWEL BAR SPLICER SYSTEM SHOWN SHALL BE FROM CALTRANS PREQUALIFIED LIST.
3. FOR LOCATION OF ADDITIONAL REINFORCEMENT, SEE "MISCELLANEOUS DETAILS" SHEET.
4. FOR SPACING OF PC Conc GIRDER STIRRUPS, SEE "GIRDER DETAILS" SHEET.

[illegible]

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559-492-3016

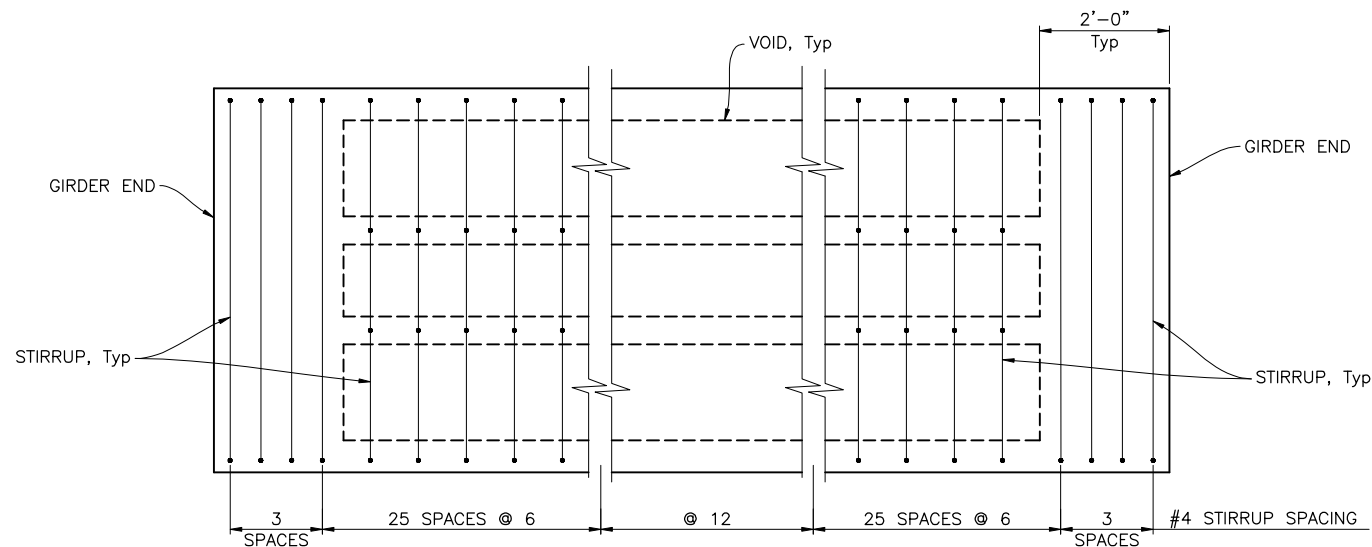
TYPICAL SECTION

M46 W OAKWOOD DR
OVER CAPINERO CREEK
TULARE COUNTY

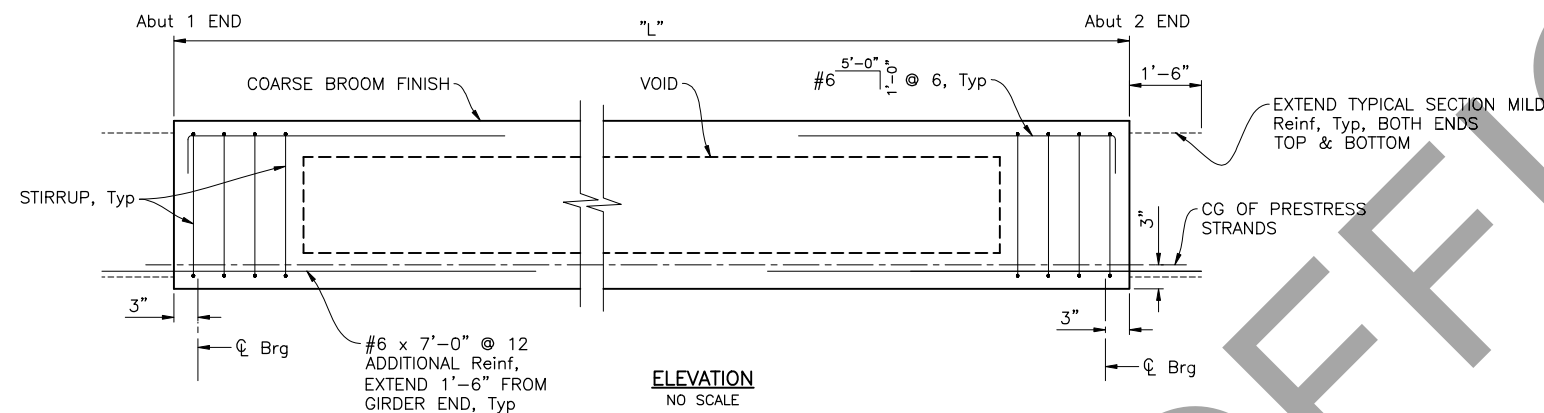
SCALE	PER PLAN
DIVISION	-
JOB NO.	2202
DESIGNED	AL
DRAWN	RA
CHECKED	LM
FILE	2202-15008TS.DWG
DATE	9/15/23

S8

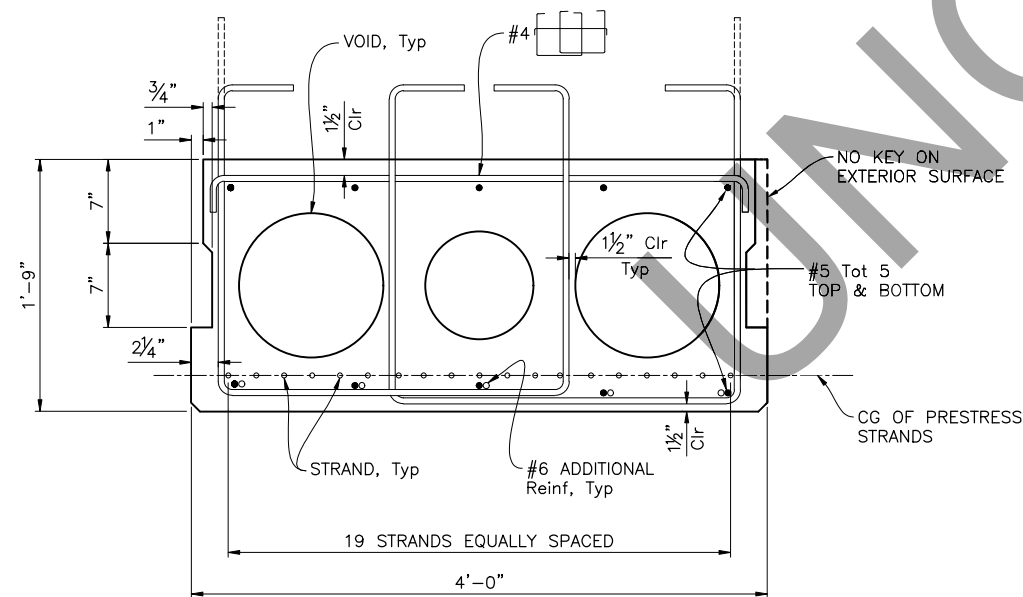
15 OF 17



PLAN
NO SCALE



ELEVATION
NO SCALE



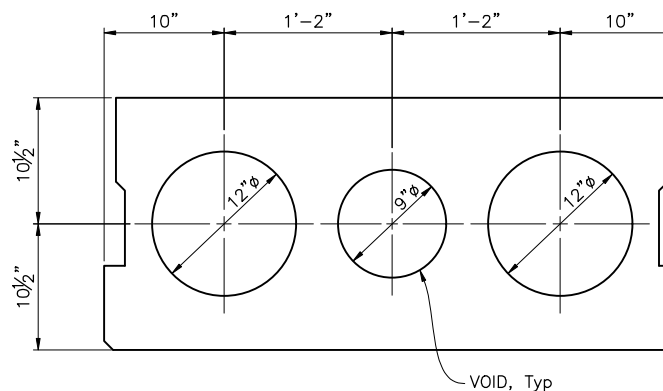
SECTION — GIRDER REINFORCEMENT
1 1/2" = 1'-0"

○ INDICATES 0.6" DIAMETER STRANDS

GENERAL NOTES:

1. THE JACKING FORCE (P) IS THE JACKING FORCE REQUIRED AT THE POINT OF CONTROL ALONG THE SPAN. THE JACKING FORCE DOES NOT INCLUDE ANY FABRICATION SPECIFIC LOSSES.
2. THE MAXIMUM TENSILE STRESS IN THE PRESTRESSING STEEL UPON RELEASE SHALL NOT EXCEED 75% OF THE SPECIFIED MINIMUM ULTIMATE TENSILE STRENGTH OF THE PRESTRESSING STEEL.
3. THE MAXIMUM TEMPORARY TENSILE STRESS (JACKING STRESS) IN THE PRESTRESSING STEEL SHALL NOT EXCEED 80% OF THE SPECIFIED MINIMUM ULTIMATE TENSILE STRENGTH OF THE PRESTRESSING STEEL.
4. CONCRETE STRENGTH:
f'ci is at time of initial stressing
f'c is at 28 days
5. KEYWAYS TO BE FILLED WITH GROUT PRIOR TO DECK POUR.
6. SCREED LINE ELEVATIONS TO BE DETERMINED BY THE ENGINEER.
7. PRESTRESSING STRAND MUST BE 270 ksi LOW RELAXATION STRAND.

GIRDER LOCATION OR DESIGNATION AND LENGTH	JACKING FORCE (P) IN kips	CONCRETE STRENGTH (ksi)		MIDSPAN DEAD LOAD DEFLECTION (INCHES)	
		f'ci	f'c	DECK	RAIL
SIV-48	835	5.0	6.0	0.6	0.1



SIV-48 — GIRDER VOID LAYOUT

1 1/2" = 1'-0"
(INTERIOR GIRDER SHOWN,
EXTERIOR GIRDER SIMILAR)



No.	REVISIONS DESCRIPTION	DATE	BY

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ENGINEERING
CORPORATION

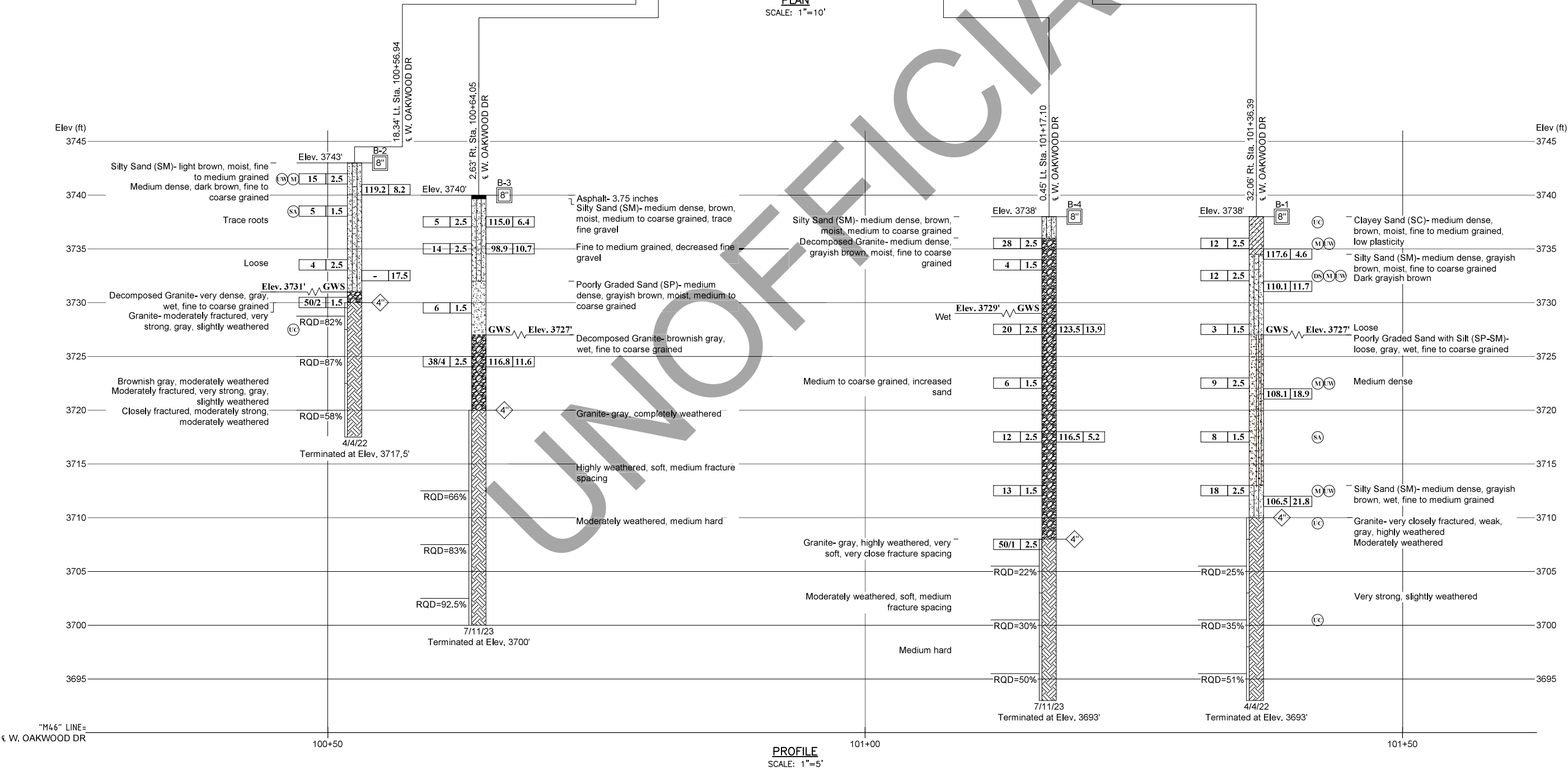
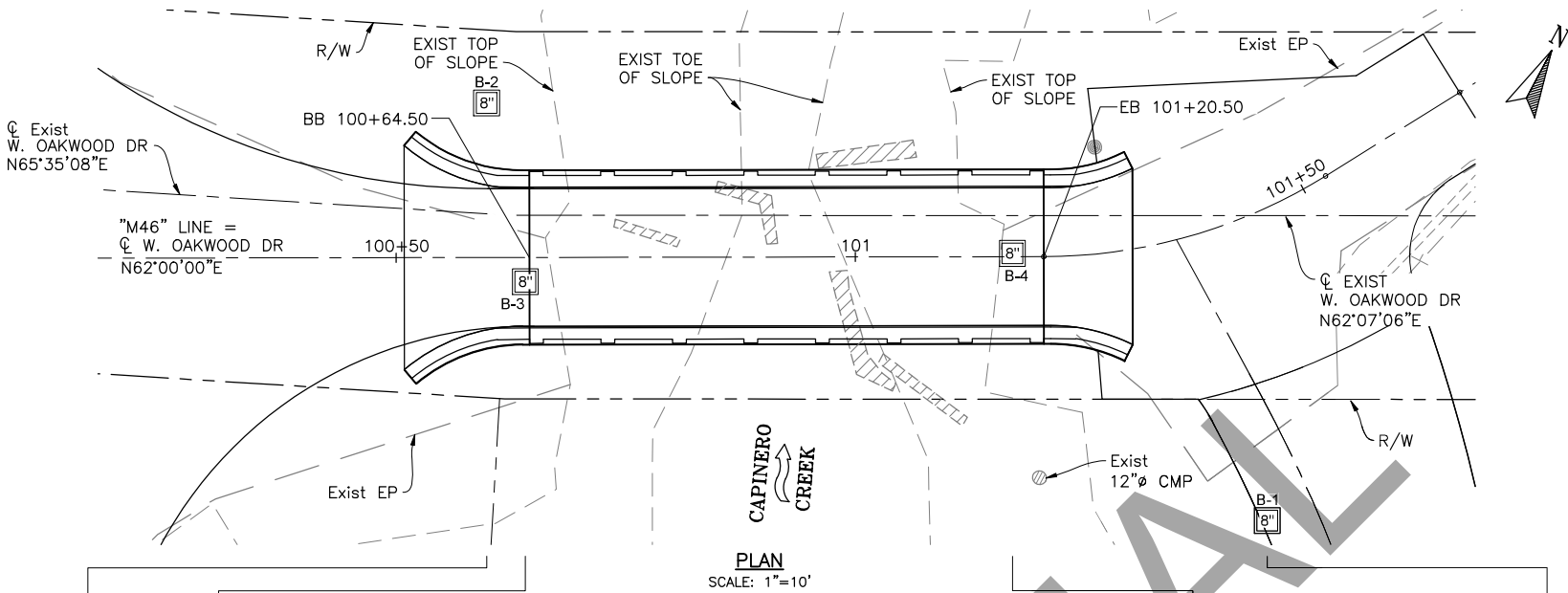
1322 E. SHAW AVE, SUITE 340
FRESNO, CA 93710
559-492-3016

GIRDER DETAILS

M46 W OAKWOOD DR
OVER CAPINERO CREEK
TULARE COUNTY

SCALE	PER PLAN
DIVISION	-
JOB NO.	2202
DESIGNED	AL
DRAWN	RA
CHECKED	LM
FILE	2202-15009GD.DWG
DATE	9/15/23
SHEET No.	S9

- NOTES:
1. Hammer type - CME55 Automatic 140 pound with 30-inch drop for all samples.
 2. All dimensions are in feet unless otherwise noted.
 3. This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, and Preparation Manual (June 2010).



REVISIONS	
No.	DESCRIPTION

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RESOURCE MANAGEMENT
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TECHNICON ENGINEERING
SERVICES, INC.

4539 N. BRAVLEY AVE, SUITE 108
FRESNO, CA 93722
559-276-9311

LOG OF TEST BORINGS

**M46 W OAKWOOD DR
OVER CAPINERO CREEK**

TULARE COUNTY

SCALE	PER PLAN
DIVISION	-
JOB NO.	2202
DESIGNED	AA
DRAWN	MH
CHECKED	SA
FILE	2202-15010LT.B.DWG
DATE	9/15/23
SHEET No.	

S10

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