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REVISIONS

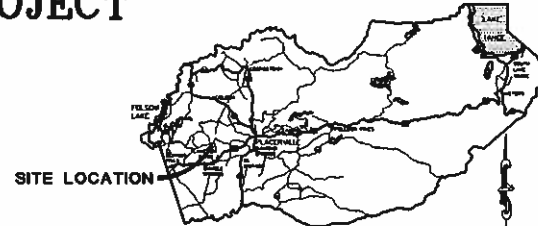
NO.	DATE	BY	DESCRIPTION

**DEPARTMENT OF TRANSPORTATION
COUNTY OF EL DORADO, CA**

**PROJECT PLANS FOR THE CONSTRUCTION OF
GREEN VALLEY ROAD AT TENNESSEE CREEK
BRIDGE RECONSTRUCTION PROJECT**

IN THE COUNTY OF EL DORADO, DISTRICT 4
IN RESCUE, CA

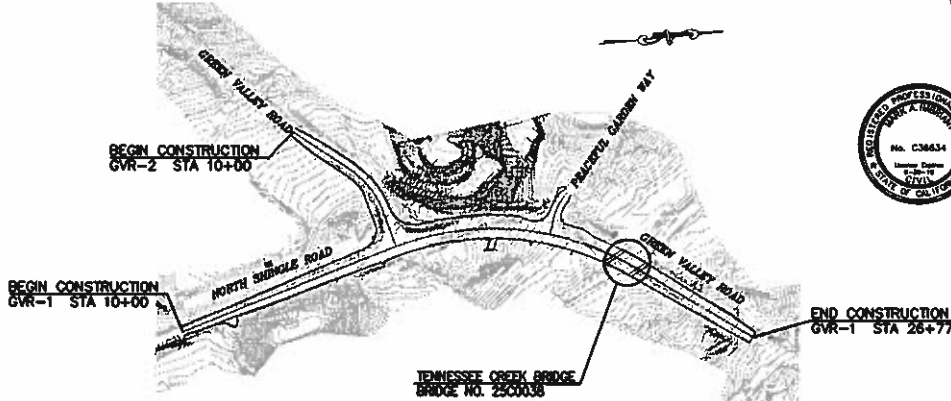
To be supplemented with Standard Plans and Specifications dated May, 2006 of the California Department of Transportation.
The Contractor's license Classification: In accordance with the provisions of California Public Contract Code 3300, the Owner has determined that the contractor shall possess a valid Class A General Engineering Contractor license, or a combination of classes required by the categories and type of work included in the contract at the time the contract is awarded.



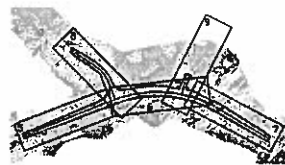
VICINITY MAP
COUNTY OF EL DORADO
NO SCALE



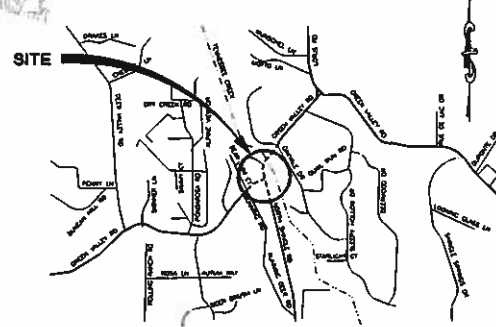
SUBMITTED BY: *Mark Igharan* 5/20/10 DATE
CIVIL ENGINEER
STATE OF CALIFORNIA NO. 36634



SITE PLAN
NO SCALE



KEY MAP
NO SCALE



LOCATION MAP
NO SCALE

BOARD OF SUPERVISORS
I JOHN KNIGHT
II RAY RUTTING
III JAMES SWEENEY
IV RON V. BRIGGS
V NORMA SANTIAGO

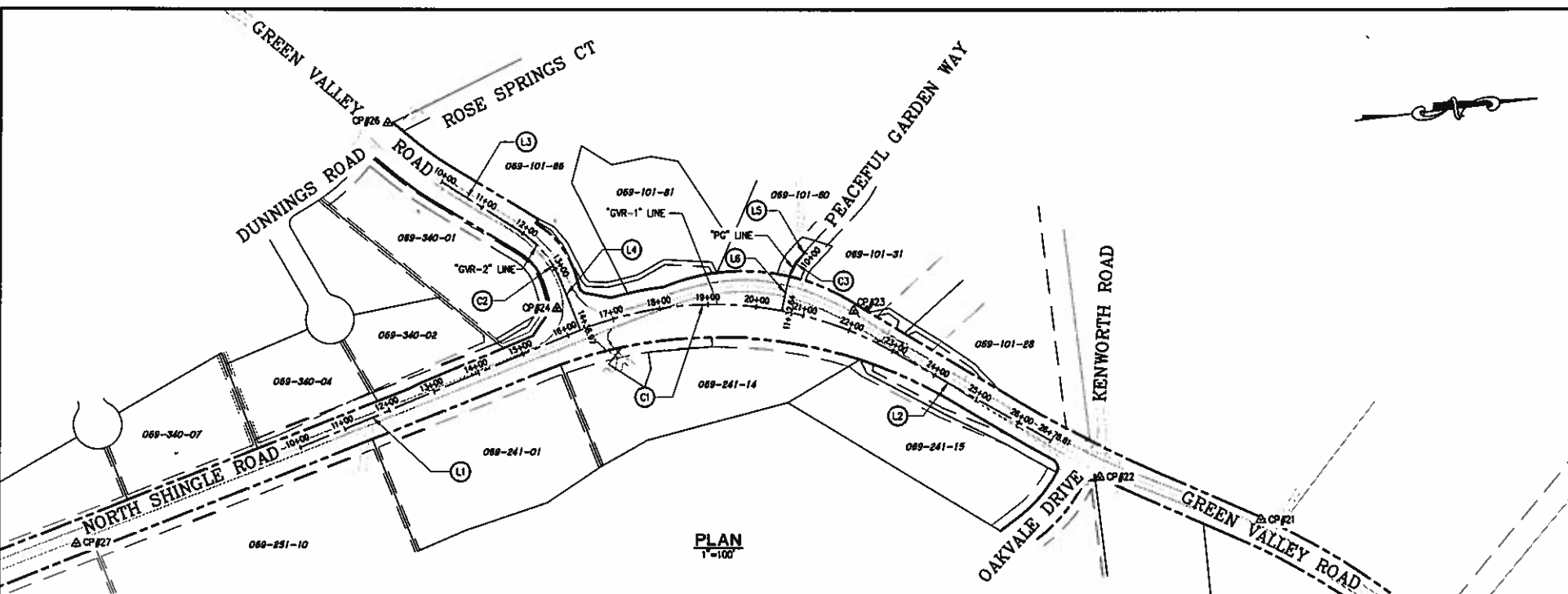
**COUNTY OF EL DORADO
DEPARTMENT OF
TRANSPORTATION**
(530) 821-8600
2880 FAIRLARK CT
PLACERVILLE, CA
95667

APPROVED AND SUBMITTED BY: _____ DATE: _____
DESIGNED BY: _____ DATE: _____
CHECKED BY: _____ DATE: _____
DRAWN BY: _____ DATE: _____
PROJECT NO. 09-30407 CONTRACT NO. 77109
COUNTY OF EL DORADO DEPARTMENT OF TRANSPORTATION
COUNTY OF EL DORADO DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECTS BILLS 802(030) & 808(020(030)
PW No. 09-30407 CONTRACT NO. 77109
**GREEN VALLEY ROAD
AT TENNESSEE CREEK
BRIDGE RECONSTRUCTION**
TITLE SHEET
SHEET 1 of 61

Drawing name: C:\Users\30\Projects\77109 Tennessee Creek\0200 Title\Sheets\Title.dwg Layout Tab: Title May 25, 2010 - 10:35am dlsbun

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 ORIGINAL SCALE IS IN INCHES
 FOR REDUCED PLANS



PLAN
T-100

"GVR-1" CURVE DATA

CURVE	RADIUS	LENGTH	Δ	CHORD DIRECTION	START POINT	END POINT
C1	750.00'	687.88'	92°32'59"	N 101°10'2" E	2024127.95, 6864678.43	2024793.65, 6864792.33

"GVR-1" ALIGNMENT LINE DATA

LINE	LENGTH	BEARING	START POINT	END POINT
L1	612.65'	N 16°05'28" W	2023551.45, 6864844.73	2024127.95, 6864678.43
L2	376.29'	N 36°27'32" E	2024793.65, 6864792.33	2025098.30, 6865015.94

"GVR-2" CURVE DATA

CURVE	RADIUS	LENGTH	Δ	CHORD DIRECTION	START POINT	END POINT
C2	230.00'	143.32'	35°42'10"	N 57°03'45" E	2024050.66, 6864449.32	2024127.33, 6864567.67

"GVR-2" ALIGNMENT LINE DATA

LINE	LENGTH	BEARING	START POINT	END POINT
L3	186.89'	N 39°12'40" E	2023905.86, 6864331.18	2024050.66, 6864449.32
L4	106.77'	N 74°54'30" E	2024127.33, 6864567.67	2024155.12, 6864670.75

"PG" CURVE DATA

CURVE	RADIUS	LENGTH	Δ	CHORD DIRECTION	START POINT	END POINT
C3	150.00'	79.94'	30°32'00"	S 57°04'15" E	2024632.09, 6864571.83	2024589.15, 6864638.13

"PG" ALIGNMENT LINE DATA

LINE	LENGTH	BEARING	START POINT	END POINT
L5	7.82'	S 41°48'15" E	2024637.92, 6864556.61	2024632.09, 6864571.83
L6	44.89'	S 72°20'15" E	2024589.15, 6864638.13	2024575.53, 6864680.90

CONTROL POINT DATA

POINT ID	NORTHING	EASTING	ELEVATION
CP20	2025918.438	6865645.826	1080.24
CP21	2025507.470	6865230.758	1122.06
CP22	2025187.897	6865103.629	1126.47
CP23	2024722.852	6864698.673	1097.89
CP24	2024112.366	6864620.060	1115.11
CP26	2023809.778	6864196.544	1145.56
CP27	2023069.970	6864989.574	1116.74

*BREAK IN SEQUENTIAL NUMBERING IS INTENTIONAL

HORIZONTAL DATUM

1. BASIS OF BEARINGS FOR SURVEY CONTROL IS GRID NORTH, CALIFORNIA COORDINATE SYSTEM (NAD 83) ZONE 2, US FT, 1991.35 EPOCH ESTABLISHED USING G.P.S. AND CONVENTIONAL MEASUREMENTS TO CONTROL POINTS SHOWN ON THIS SHEET.

VERTICAL DATUM

2. ELEVATION DATUM IS BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1929. TBM POINTS ARE CONTROL POINTS SHOWN ON THIS SHEET.

NO.	DATE	DESCRIPTION



PREPARED UNDER THE SUPERVISION OF:
Loren A. Massimo
 PROFESSIONAL LAND SURVEYOR
 DATE: 5/21/10

DESIGNED BY: M.E.M.
 CHECKED BY: M.E.M.
 ORDER NO.: 05/03/10
 PWD NUMBER: 000

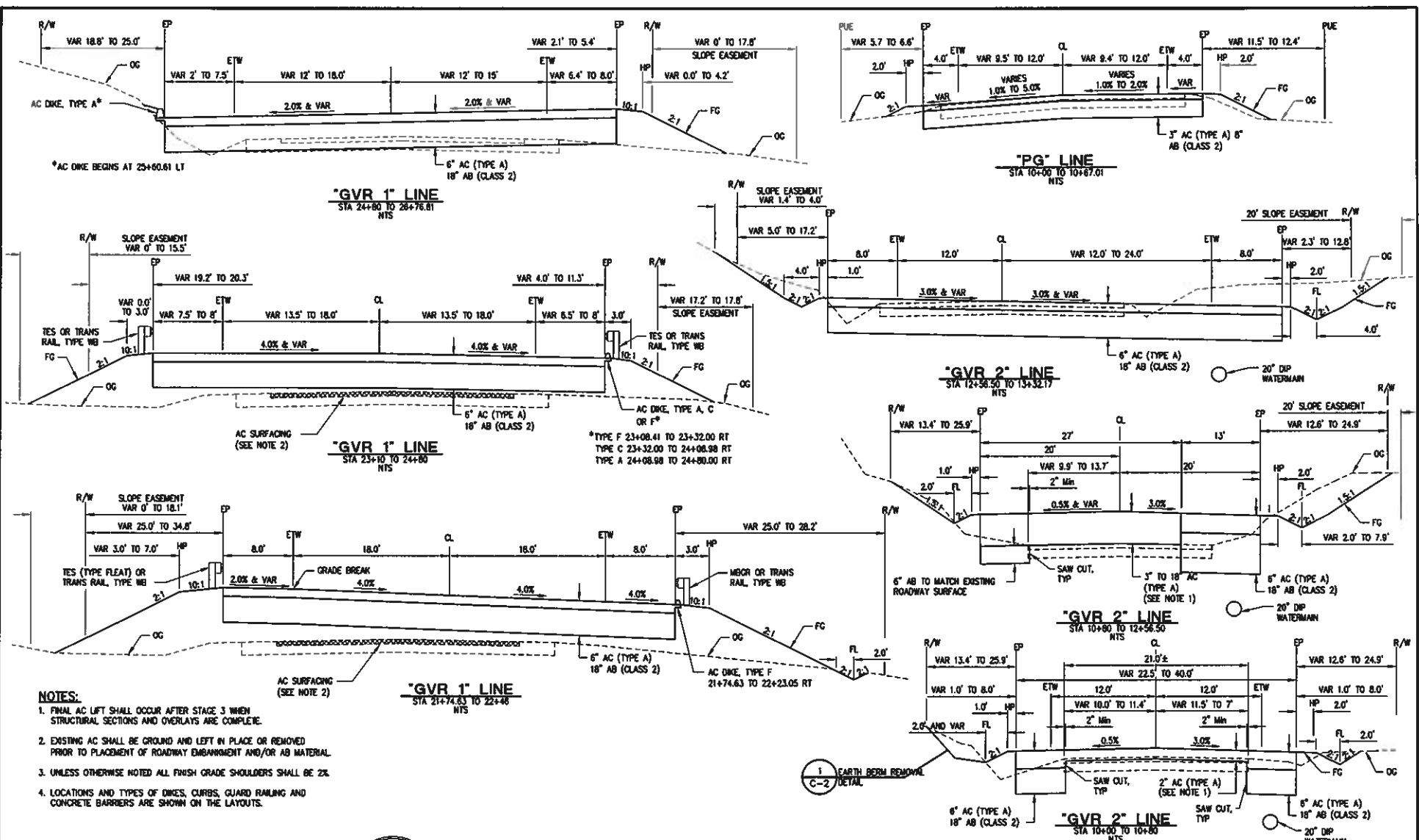


EL DORADO COUNTY
 DEPARTMENT OF TRANSPORTATION

GREEN VALLEY ROAD AT TENNESSEE CREEK BRIDGE RECONSTRUCTION PROJECT SURVEY CONTROL

SHEET
SC-1
 2 OF 61
 77109

Drawing name: C:\cor_3d\Projects\77109 Tennessee Creek\CAD\Plan\Sheets\1-2.dwg Layout file: 1-2 May 20, 2010 - 2:51pm Atchop
 ORIGINAL SCALE IS IN INCHES
 FOR REDUCED PLANS



- NOTES:**
1. FINAL AC LIFT SHALL OCCUR AFTER STAGE 3 WHEN STRUCTURAL SECTIONS AND OVERLAYS ARE COMPLETE.
 2. EXISTING AC SHALL BE GROUND AND LEFT IN PLACE OR REMOVED PRIOR TO PLACEMENT OF ROADWAY EMBANKMENT AND/OR AB MATERIAL.
 3. UNLESS OTHERWISE NOTED ALL FINISH GRADE SHOULDERS SHALL BE 2%.
 4. LOCATIONS AND TYPES OF DIKES, CURBS, GUARD RAILING AND CONCRETE BARRIERS ARE SHOWN ON THE LAYOUTS.



PREPARED UNDER THE SUPERVISION OF

 REGISTERED CIVIL ENGINEER
 DATE: 5/20/10

DESIGNED: M.E.M. DRAWN: M.E.M.
 CHECKED: M.E.M. DATE: 9/03/10
 ROAD NUMBER: 000

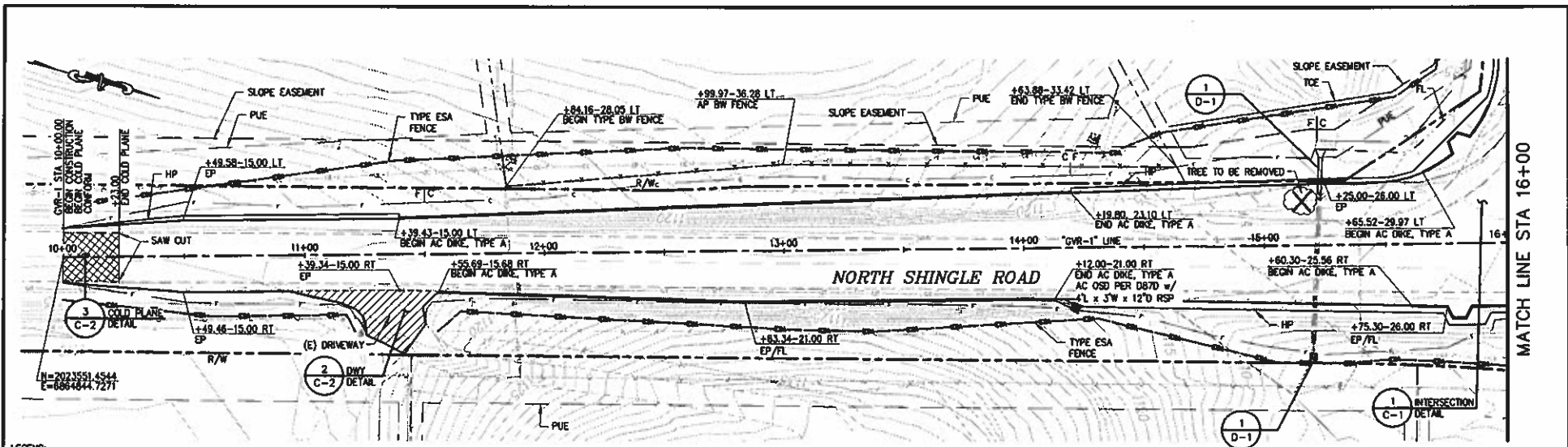


EL DORADO COUNTY
 DEPARTMENT OF TRANSPORTATION

GREEN VALLEY ROAD AT TENNESSEE CREEK BRIDGE RECONSTRUCTION PROJECT
TYPICAL SECTIONS

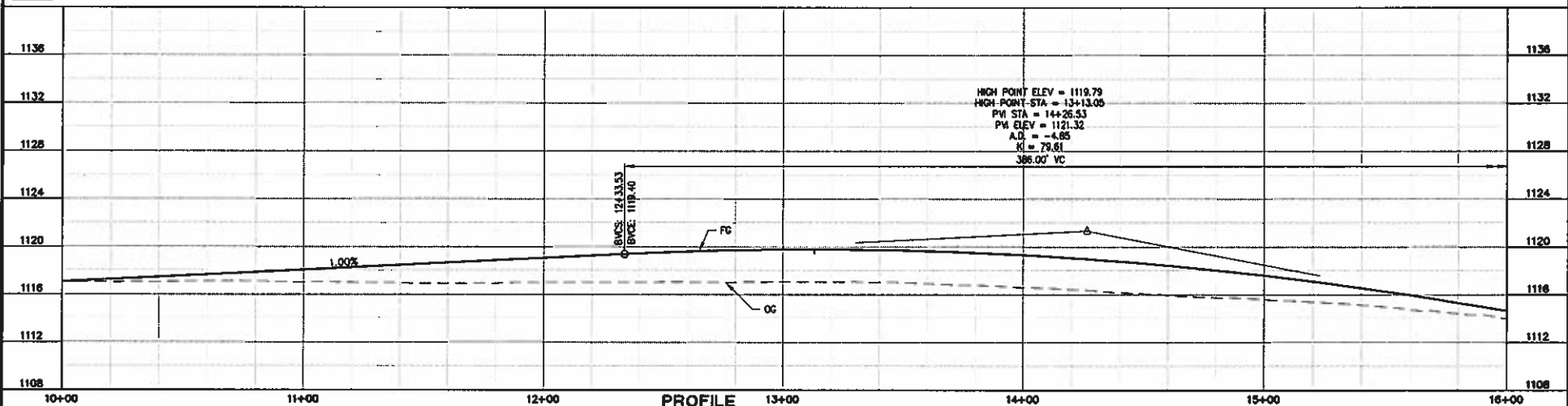
SHEET X-2
 4 OF 61
 77109

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 ORIGINAL SCALE IS IN INCHES
 FOR REDUCED PLANS



LEGEND:
 = REMOVE AC SURFACING
 = COLD PLANE AC PAVEMENT

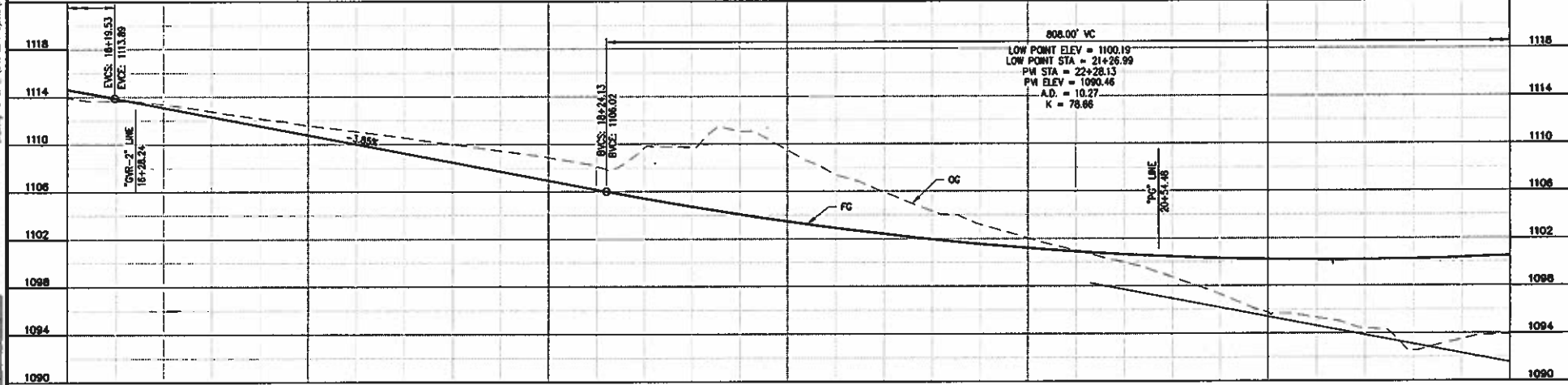
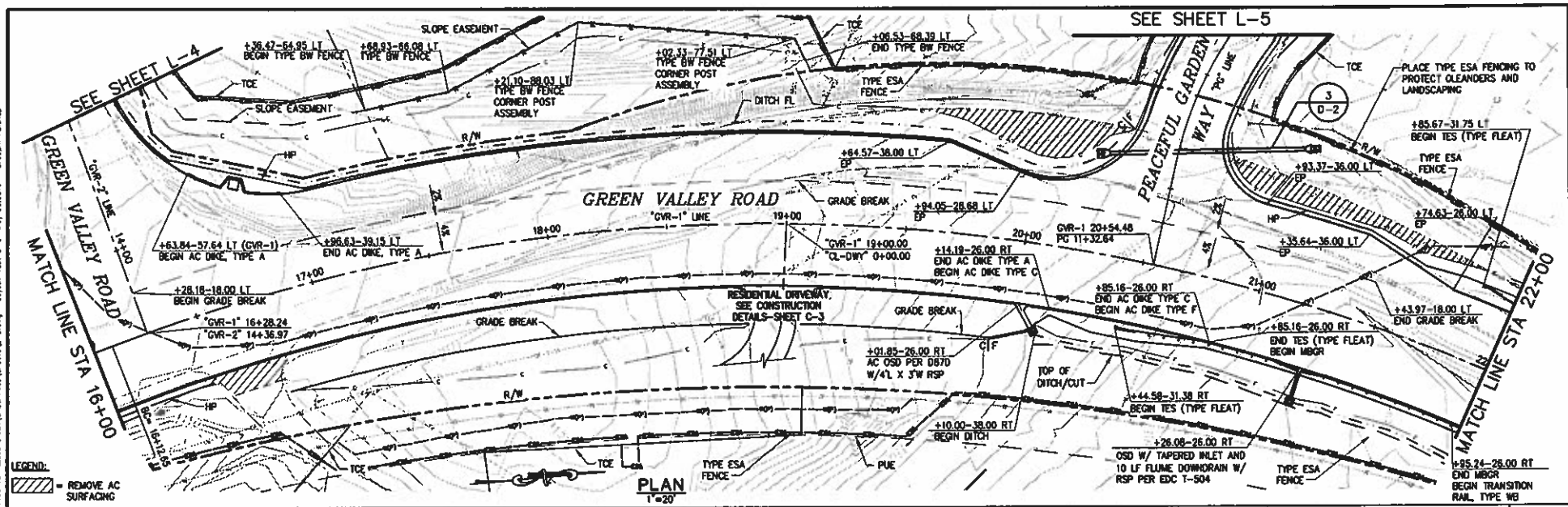
PLAN
1"=20'



PROFILE
HORIZ 1"=20'
VERT 1"=4'

REVISIONS <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th>NO.</th><th>DATE</th><th>DESCRIPTION</th><th>BY</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>	NO.	DATE	DESCRIPTION	BY														PREPARED UNDER THE SUPERVISION OF REGISTERED CIVIL ENGINEER DATE: 5/20/10	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>DESIGN</td><td>DATE</td></tr> <tr><td>M.E.M.</td><td>05/03/10</td></tr> <tr><td>CHECKED</td><td>DATE</td></tr> <tr><td>M.E.M.</td><td>05/03/10</td></tr> <tr><td>DRAWN</td><td>DATE</td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>	DESIGN	DATE	M.E.M.	05/03/10	CHECKED	DATE	M.E.M.	05/03/10	DRAWN	DATE						EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION	GREEN VALLEY ROAD AT TENNESSEE CREEK BRIDGE RECONSTRUCTION PROJECT PLAN AND PROFILE	SHEET L-1 5 of 61 77109
NO.	DATE	DESCRIPTION	BY																																		
DESIGN	DATE																																				
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CHECKED	DATE																																				
M.E.M.	05/03/10																																				
DRAWN	DATE																																				

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 ORIGINAL SCALE 15 IN INCHES
 FOR REVEALED PLANS



PROFILE
HORIZ 1"=20'
VERT 1"=4'

NO.	DATE	BY	REVISION



PREPARED UNDER THE SUPERVISION OF

 REGISTERED CIVIL ENGINEER
 DATE: 5/20/10

DESIGNED: M.J.M. DATE: 05/05/10
 CHECKED: M.J.M.
 DRAWN: GDD

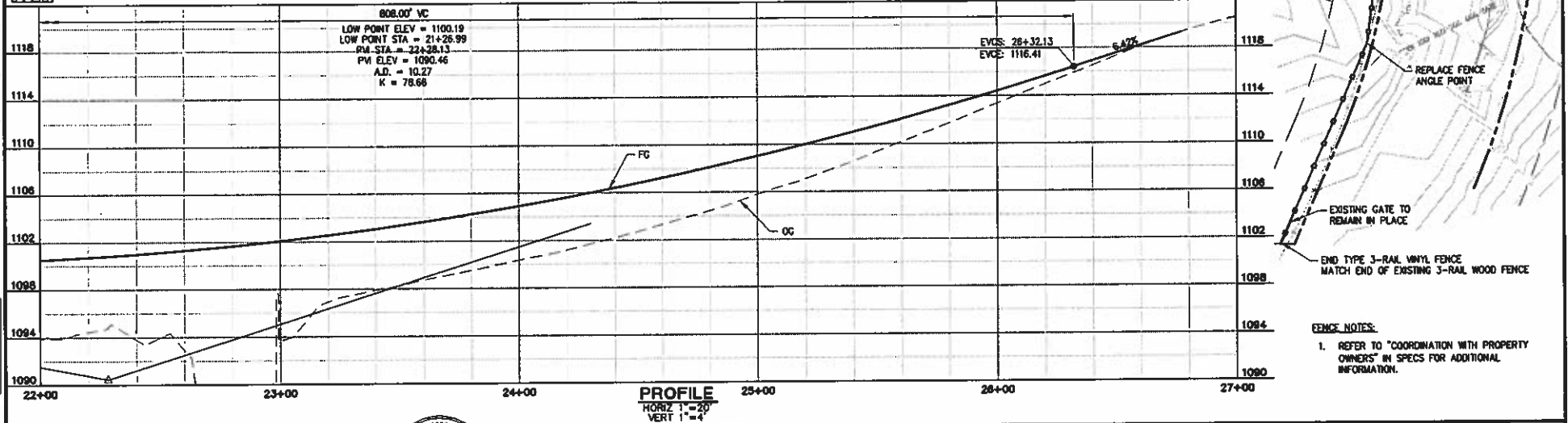
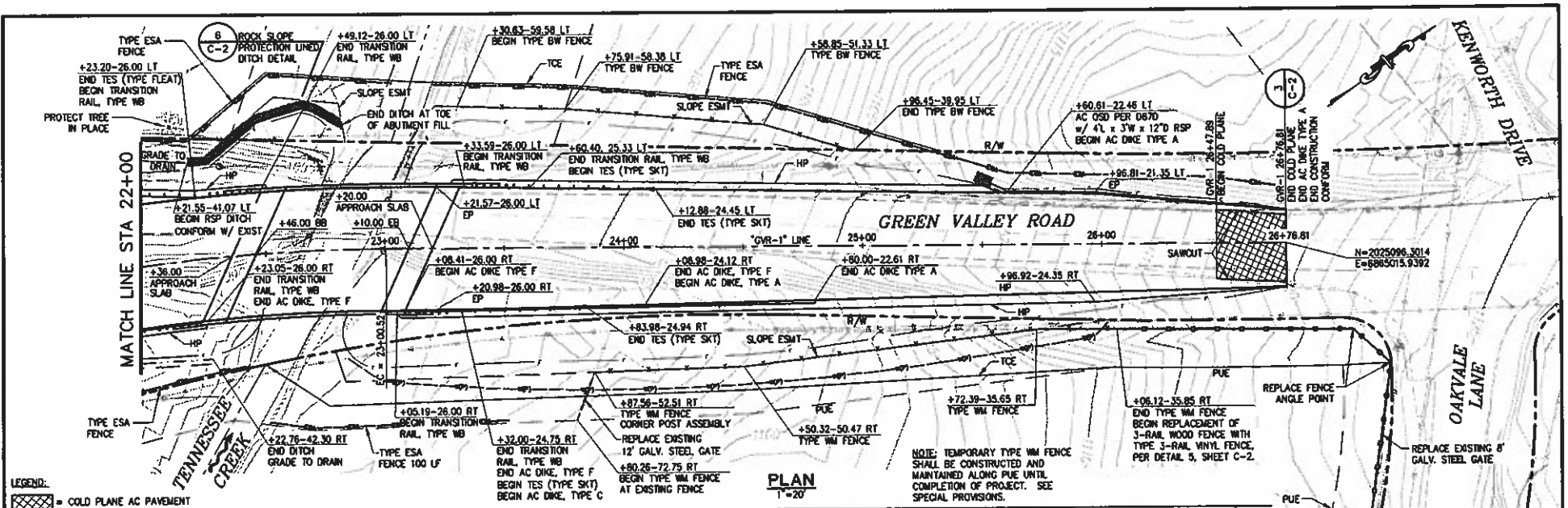


EL DORADO COUNTY
 DEPARTMENT OF TRANSPORTATION

GREEN VALLEY ROAD AT TENNESSEE CREEK BRIDGE RECONSTRUCTION PROJECT
PLAN AND PROFILE

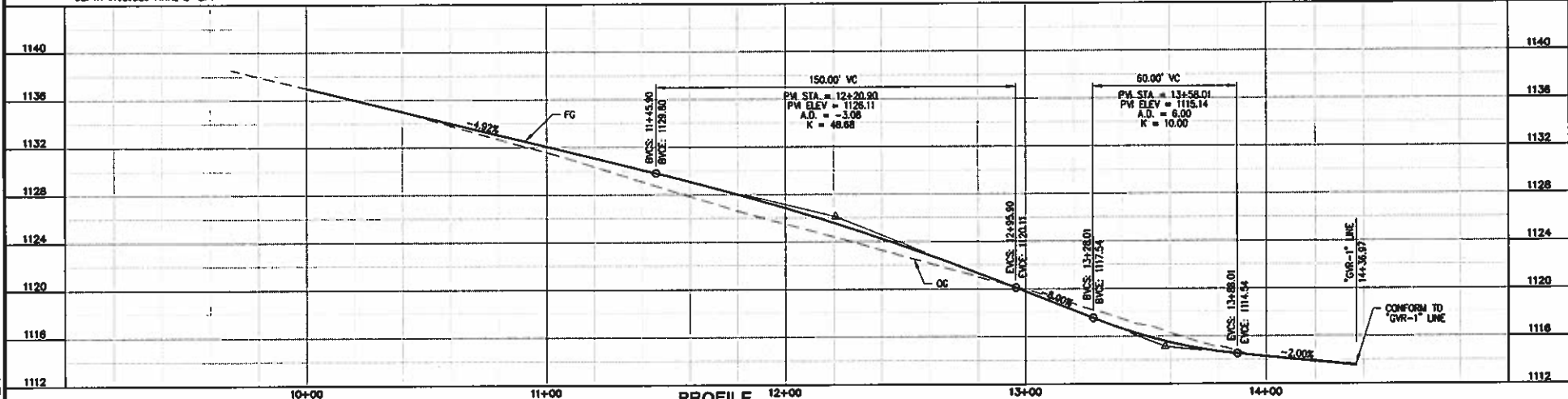
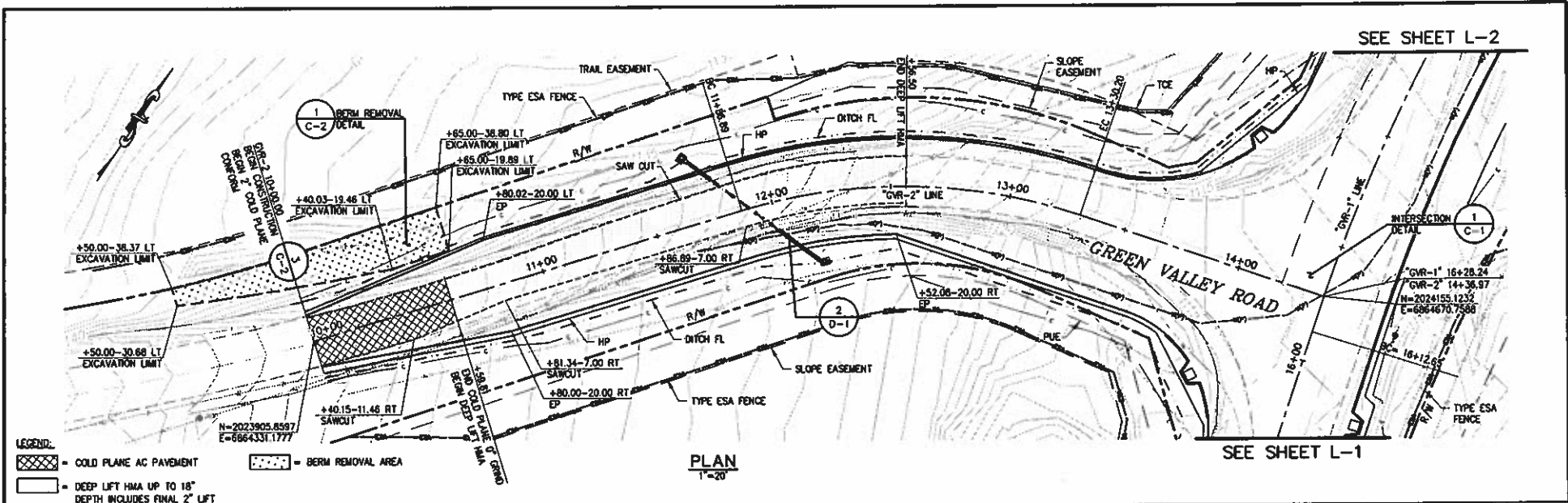
SHEET
L-2
 6 OF 61
 77109

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REVISION NO. DATE DESCRIPTION 		PREPARED UNDER THE SUPERVISION OF APPROVED CIVIL ENGINEER DATE: 5/20/10	DESIGNED: M.A.M. CHECKED: M.E.N. DATE: 05/03/10 ROAD NUMBER: 000		EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION	GREEN VALLEY ROAD AT TENNESSEE CREEK BRIDGE RECONSTRUCTION PROJECT PLAN AND PROFILE	SHEET L-3 7 of 81 77109
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 FOR REDUCED PLANS



NO.	DATE	DESCRIPTION



PREPARED UNDER THE SUPERVISION OF

 APPROVED CIVIL ENGINEER
 DATE: 5/20/10

DESIGNED BY: M.A.M.
 CHECKED BY: M.A.M.
 DATE: 05/03/10
 POND NUMBER: 000

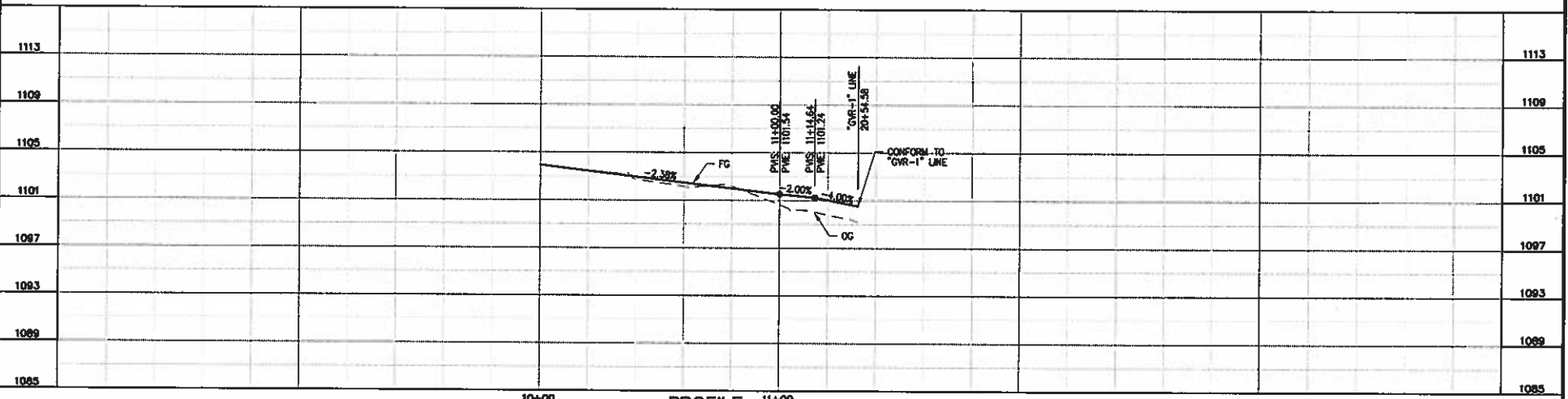
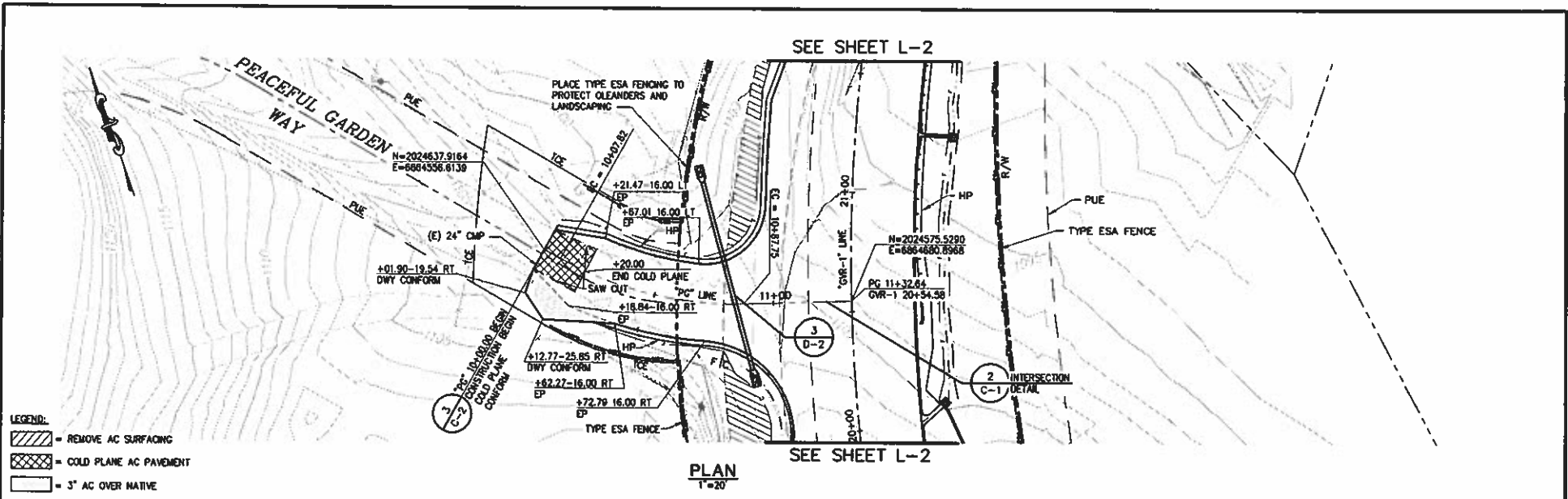


EL DORADO COUNTY
 DEPARTMENT OF TRANSPORTATION

GREEN VALLEY ROAD AT TENNESSEE CREEK BRIDGE RECONSTRUCTION PROJECT
PLAN AND PROFILE

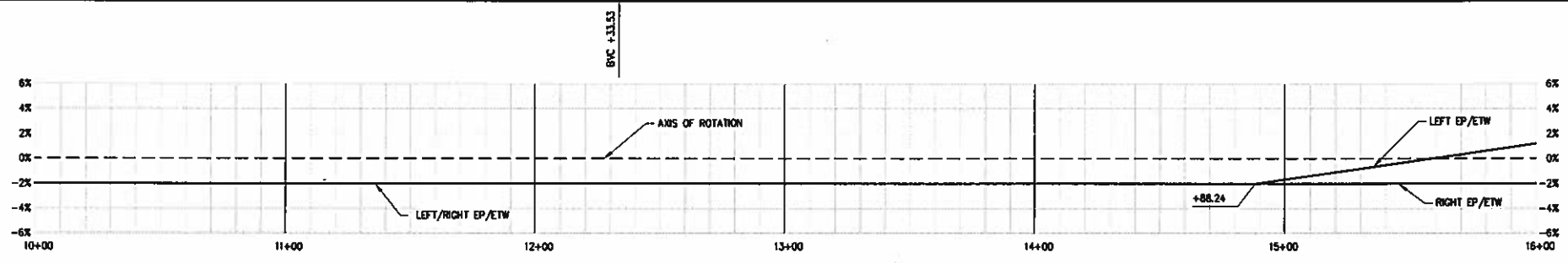
SHEET
L-4
 8 of 81
 77109

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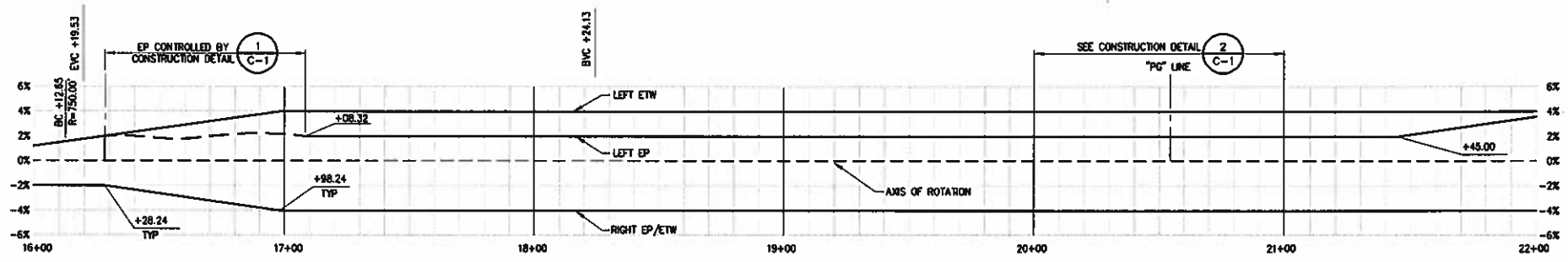


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CHECKED	M.E.M.	DATE	05/03/10																									
PROJECT NUMBER	000																											

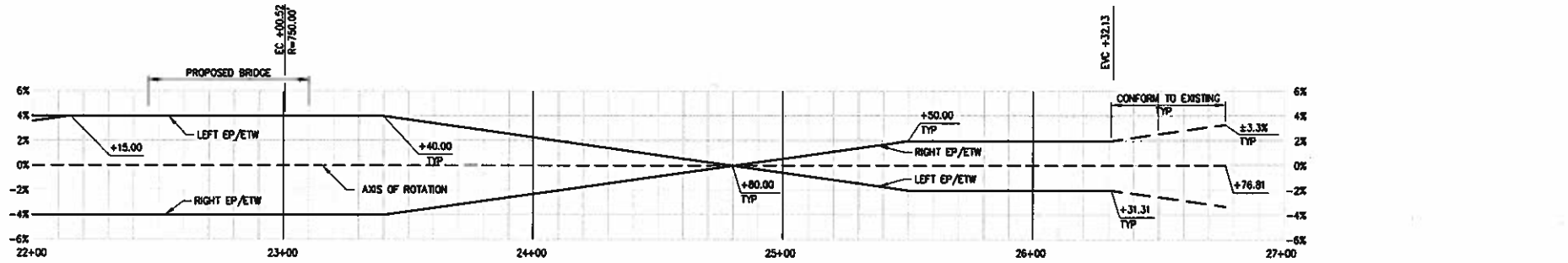
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 FOR REDUCED PLANS
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GVR-1



GVR-1



GVR-1

SCALE: HORIZ 1"=20'

NO.	DATE	REVISION	BY



PREPARED UNDER THE SUPERVISION OF
Howard E. Michael
 REGISTERED CIVIL ENGINEER
 DATE: 5/20/10

DESIGNED: M.A.M. M.L.M.
 CHECKED: M.A.M. DATE: 09/03/10
 ROAD NUMBER: 000

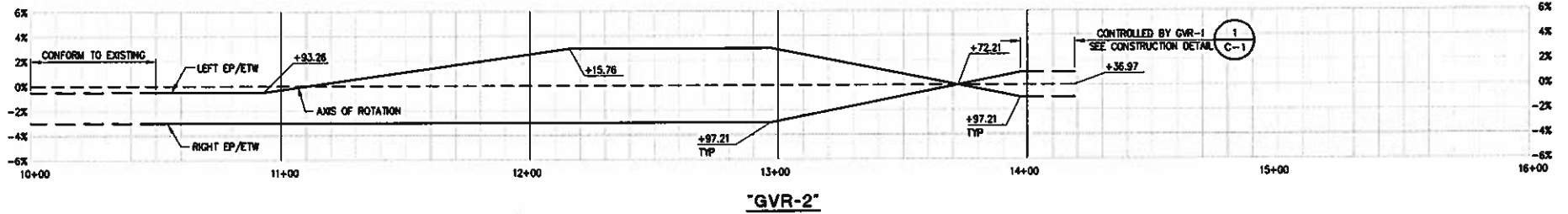
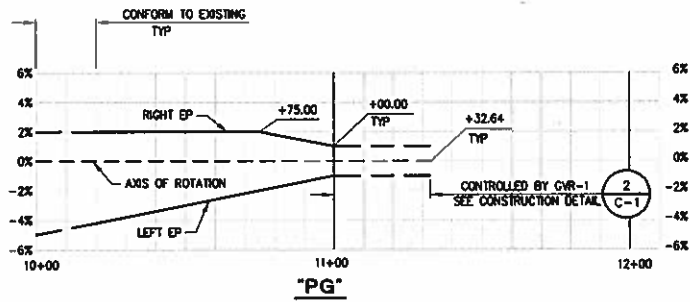


EL DORADO COUNTY
 DEPARTMENT OF TRANSPORTATION

**GREEN VALLEY ROAD AT TENNESSEE
 CREEK BRIDGE RECONSTRUCTION PROJECT
 SUPERELEVATION DIAGRAM**

SHEET
SE-1
 10 OF 61
 77109

Drawing name: C:\c\3\3\Projects\17108 Tennessee Creek\100 Files\Sheet\SE-2.dwg, Layout: SE-2, May 20, 2010 - 3:24pm, h324ap
 ORIGINAL SCALE IS IN INCHES
 FOR REDUCED PLANS



SCALE: HORIZ 1"=20'

NO.	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF
Howard E. Hodges
 REGISTERED CIVIL ENGINEER
 DATE: 5/20/10

DESIGNED M.J.M.	DRAWN M.J.M.
CHECKED H.E.M.	DATE 05/03/10
ROAD NUMBER 000	

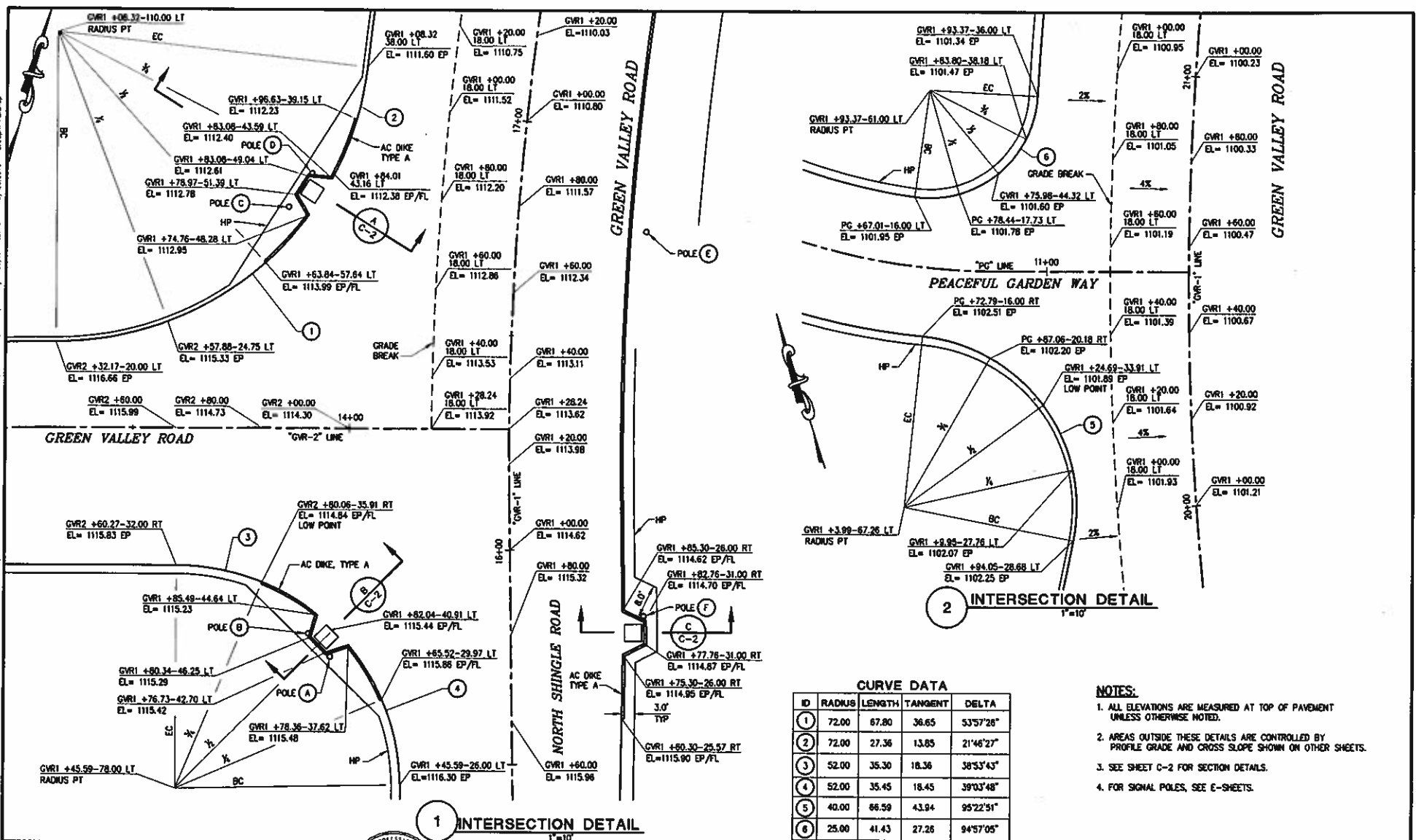


EL DORADO COUNTY
 DEPARTMENT OF TRANSPORTATION

GREEN VALLEY ROAD AT TENNESSEE
 CREEK BRIDGE RECONSTRUCTION PROJECT
 SUPERELEVATION DIAGRAM

SHEET
SE-2
 11 OF 61
 77109

ORIGINAL SCALE IS IN INCHES
 DRAWING NO. C-1
 PROJECT NO. 10-0299.B.12
 SHEET NO. 12 OF 81
 DATE: 05/20/10
 DRAWING DATE: 05/20/10
 PROJECT: GREEN VALLEY ROAD AT TENNESSEE CREEK BRIDGE RECONSTRUCTION PROJECT
 SHEET: CONSTRUCTION DETAILS
 DRAWING NO. C-1
 PROJECT NO. 10-0299.B.12
 SHEET NO. 12 OF 81
 DATE: 05/20/10
 DRAWING DATE: 05/20/10
 PROJECT: GREEN VALLEY ROAD AT TENNESSEE CREEK BRIDGE RECONSTRUCTION PROJECT
 SHEET: CONSTRUCTION DETAILS



CURVE DATA

ID	RADIUS	LENGTH	TANGENT	DELTA
1	72.00	67.80	36.65	53°57'28"
2	72.00	27.36	13.85	21°46'27"
3	52.00	35.30	18.36	38°53'43"
4	52.00	35.45	18.45	39°03'48"
5	40.00	86.59	43.94	95°22'51"
6	25.00	41.43	27.26	94°57'05"

- NOTES:**
- ALL ELEVATIONS ARE MEASURED AT TOP OF PAVEMENT UNLESS OTHERWISE NOTED.
 - AREAS OUTSIDE THESE DETAILS ARE CONTROLLED BY PROFILE GRADE AND CROSS SLOPE SHOWN ON OTHER SHEETS.
 - SEE SHEET C-2 FOR SECTION DETAILS.
 - FOR SIGNAL POLES, SEE E-SHEETS.



PREPARED UNDER THE SUPERVISION OF
 [Signature]
 REGISTERED CIVIL ENGINEER
 DATE: 5/20/10

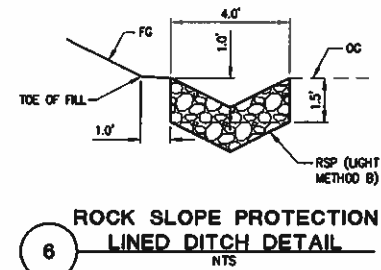
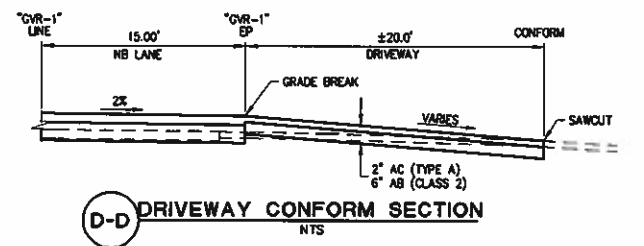
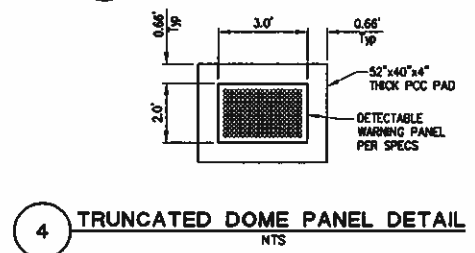
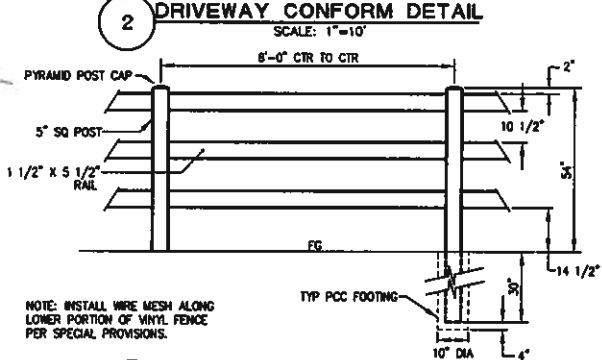
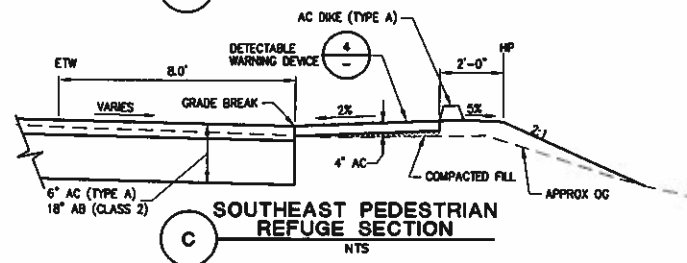
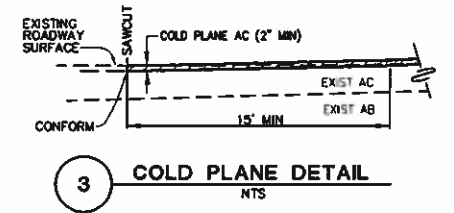
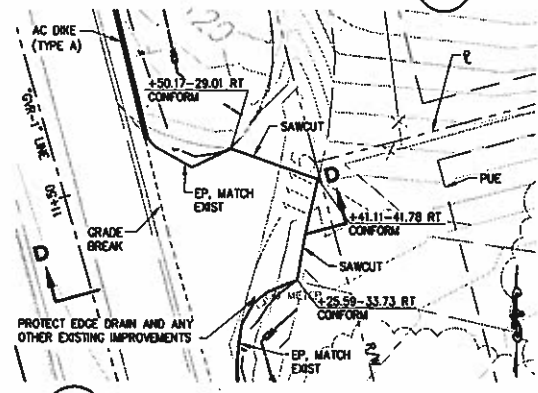
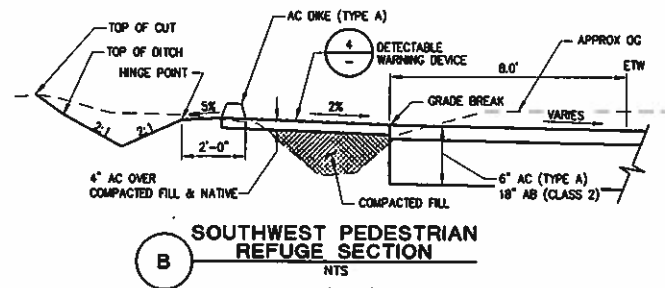
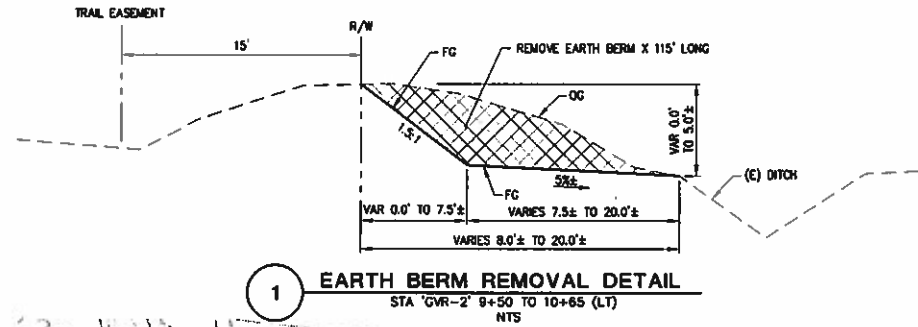
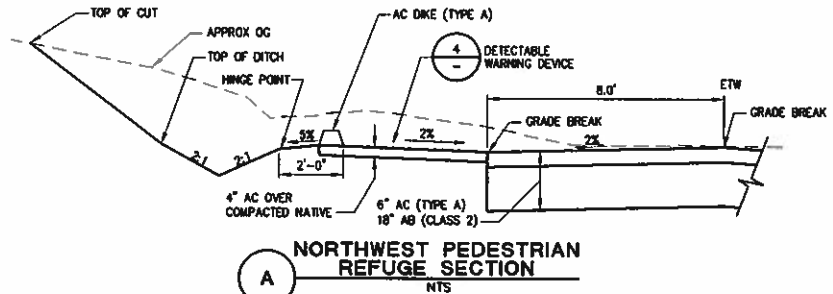


EL DORADO COUNTY
 DEPARTMENT OF TRANSPORTATION

GREEN VALLEY ROAD AT TENNESSEE CREEK BRIDGE RECONSTRUCTION PROJECT
CONSTRUCTION DETAILS

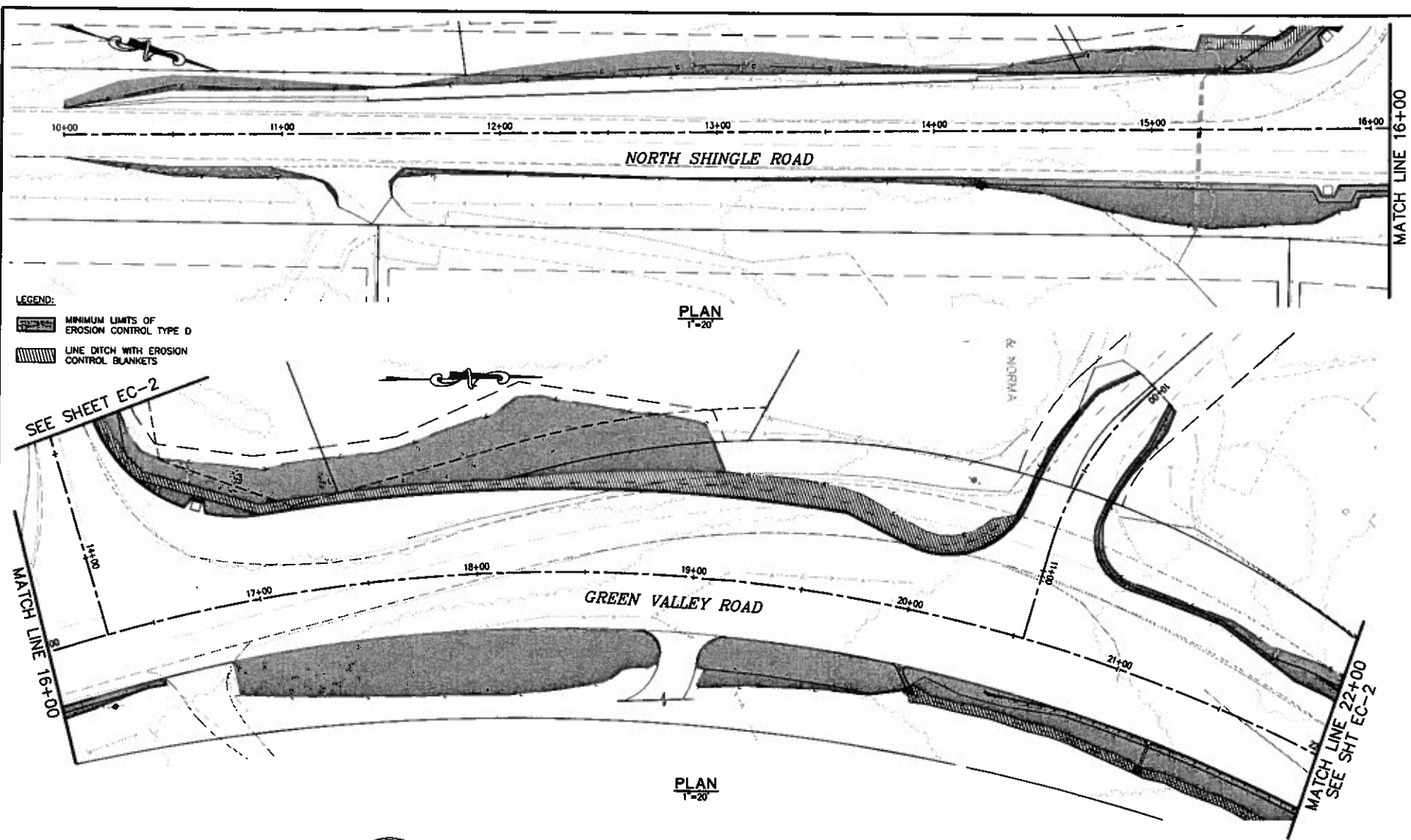
SHEET
 C-1
 12 OF 81
 77109

Drawing name: C:\CADD\Projects\77109 Tennessee Creek\000 Files\Sheets\C-2.dwg Layout Tab: C1 May 20/2010 - 3:30pm A361wp
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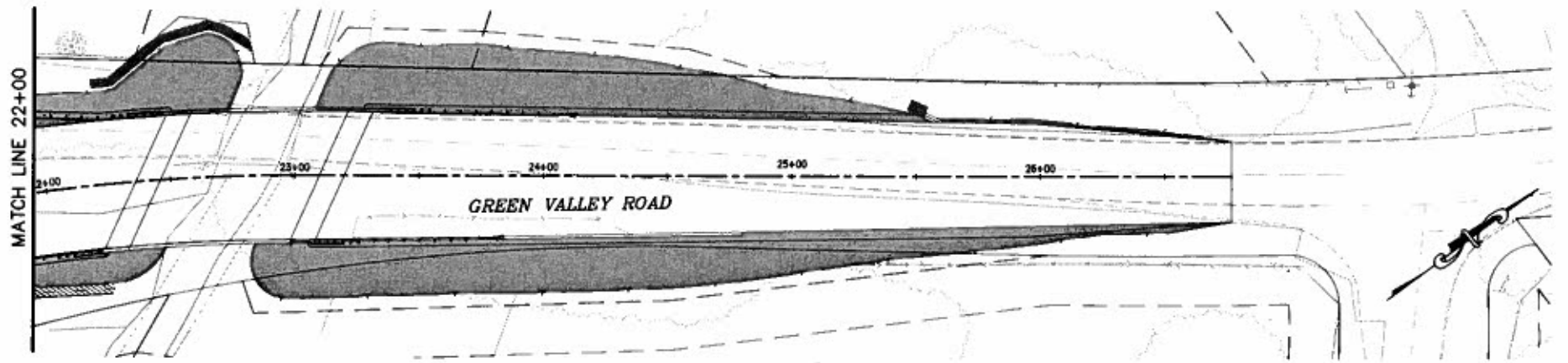
REVISION NO. DATE BY DESCRIPTION _____ _____ _____	PREPARED UNDER THE SUPERVISION OF THOMAS E. MOHAN CIVIL 5/20/10	DESIGNED: M.J.M. CHECKED: M.J.M. DATE: 09/03/10	EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION	GREEN VALLEY ROAD AT TENNESSEE CREEK BRIDGE RECONSTRUCTION PROJECT CONSTRUCTION DETAILS	SHEET C-2 13 OF 61 77109
		10-0299.B.13			

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 FOR REPRODUCED PLANS
 REVISIONS





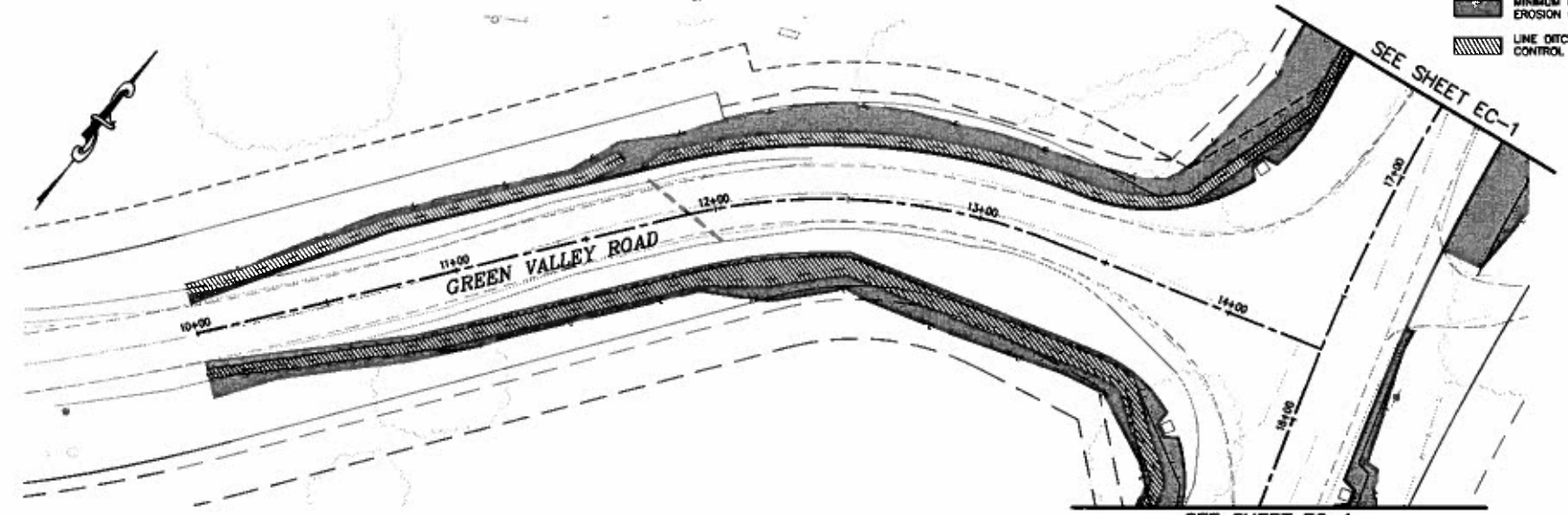
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NO.	DATE	DESCRIPTION																					

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 DATE: 05/20/10
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 REVISION



PLAN
1"=20'

LEGEND:
 MINIMUM LIMITS OF EROSION CONTROL TYPE D
 LINE DITCH WITH EROSION CONTROL BLANKETS



PLAN
1"=20'

NO.	DATE	DESCRIPTION



PREPARED UNDER THE SUPERVISION OF

 REGISTERED CIVIL ENGINEER
 DATE: 5/20/10

CHECKED BY: M.J.M.
 DATE: A.A.C.
 DESIGNED BY: M.E.M.
 DATE: 02/03/10
 DRAWING NUMBER: 000

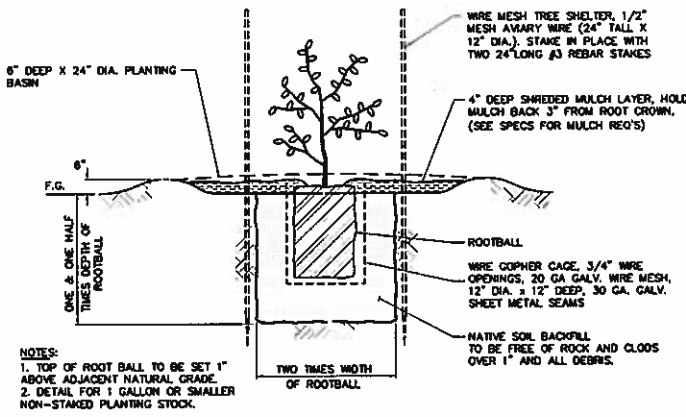


EL DORADO COUNTY
 DEPARTMENT OF TRANSPORTATION

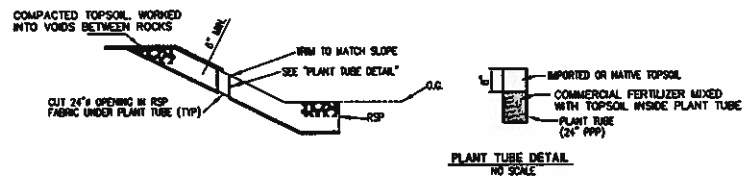
GREEN VALLEY ROAD AT TENNESSEE
 CREEK BRIDGE RECONSTRUCTION PROJECT
 EROSION CONTROL PLAN

SHEET
 EC-2
 18 OF 61
 77109

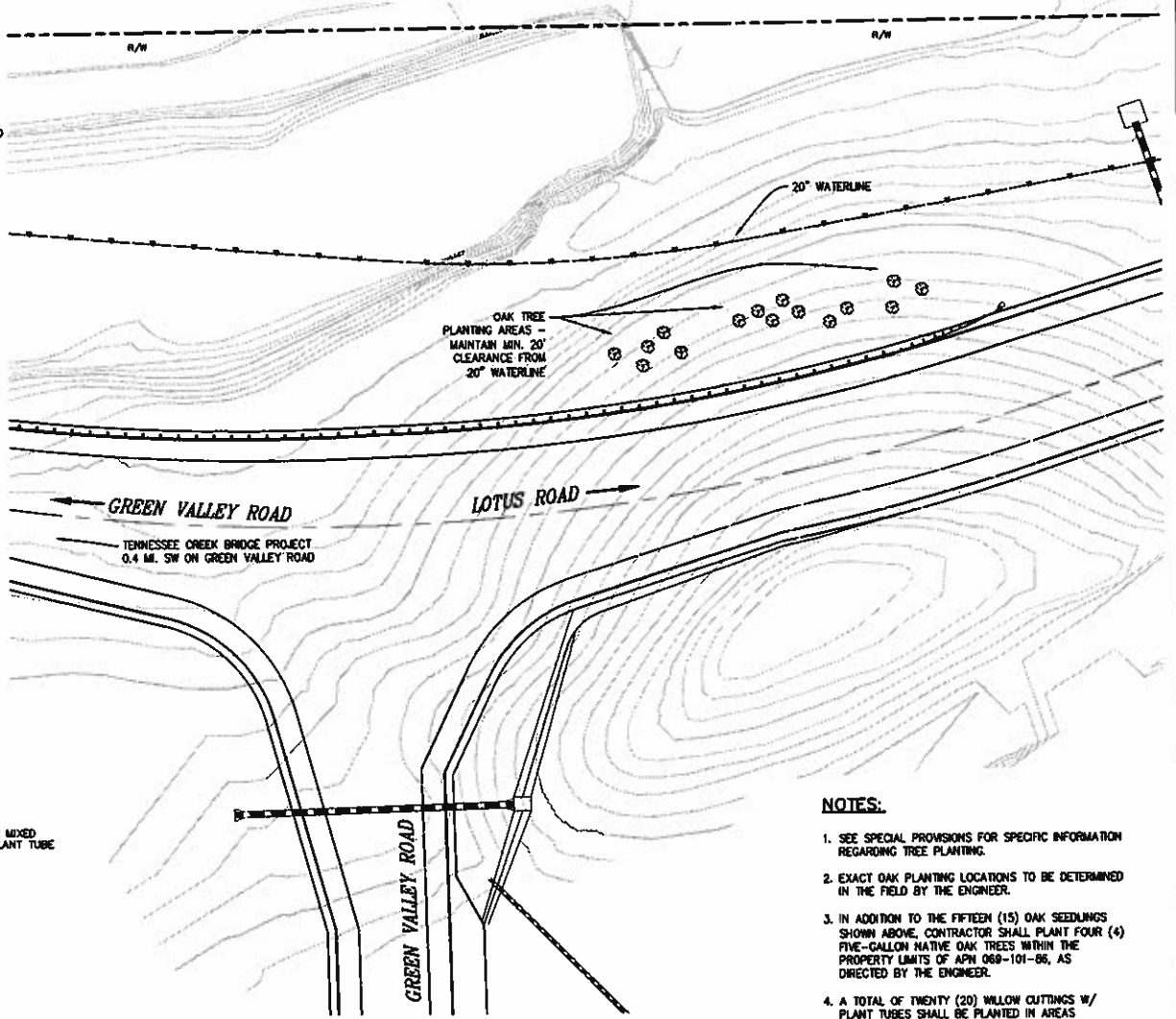
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OAK PLANTING DETAIL
NO SCALE



WILLOW CUTTINGS PLANT TUBE LOCATION DETAIL
NO SCALE



PLAN
SCALE: 1"=20'

- NOTES:**
1. SEE SPECIAL PROVISIONS FOR SPECIFIC INFORMATION REGARDING TREE PLANTING.
 2. EXACT OAK PLANTING LOCATIONS TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
 3. IN ADDITION TO THE FIFTEEN (15) OAK SEEDLINGS SHOWN ABOVE, CONTRACTOR SHALL PLANT FOUR (4) FIVE-GALLON NATIVE OAK TREES WITHIN THE PROPERTY LIMITS OF APN 069-101-06, AS DIRECTED BY THE ENGINEER.
 4. A TOTAL OF TWENTY (20) WILLOW CUTTINGS W/ PLANT TUBES SHALL BE PLANTED IN AREAS COVERED WITH RSP ON EACH SIDE OF THE BRIDGE ABUTMENTS, AS DIRECTED BY THE ENGINEER.



PREPARED UNDER THE SUPERVISION OF
 David H. Jones
 REGISTERED CIVIL ENGINEER
 DATE: 5/20/10

DESIGNED BY: DJM
 CHECKED BY: DJM
 DATE: 05/03/10
 NUMBER: 000



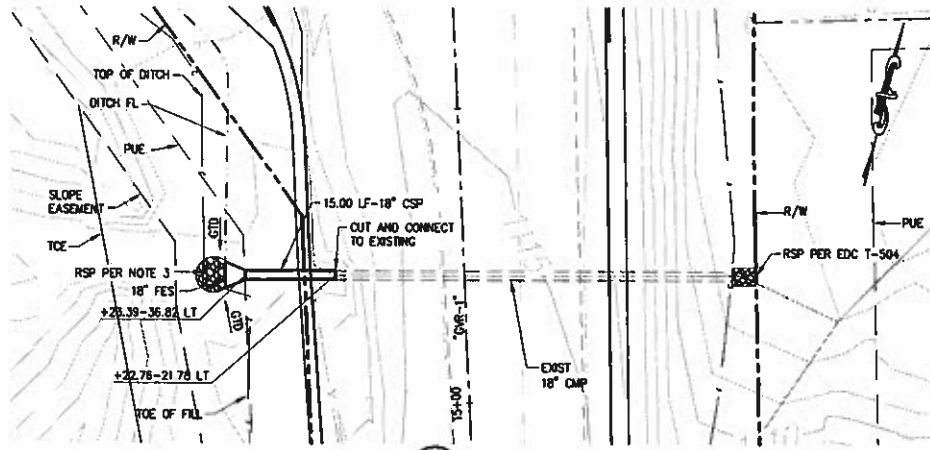
EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

GREEN VALLEY ROAD AT TENNESSEE CREEK BRIDGE RECONSTRUCTION PROJECT REVEGETATION & PLANTING PLAN

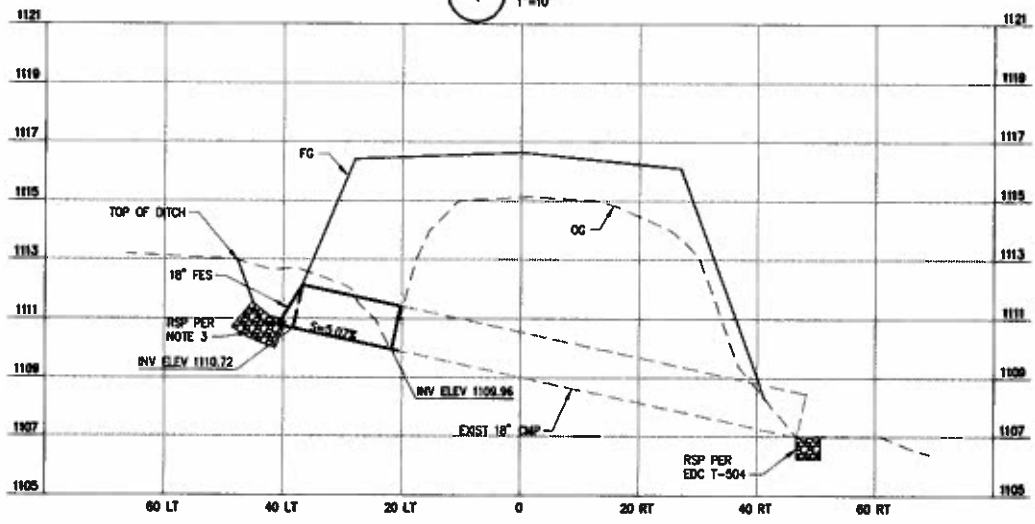
SHEET
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17 OF 61
77109

10-0299.B.17

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 FOR REDUCED PLANS
 REVISION



1 PLAN
1"=10'



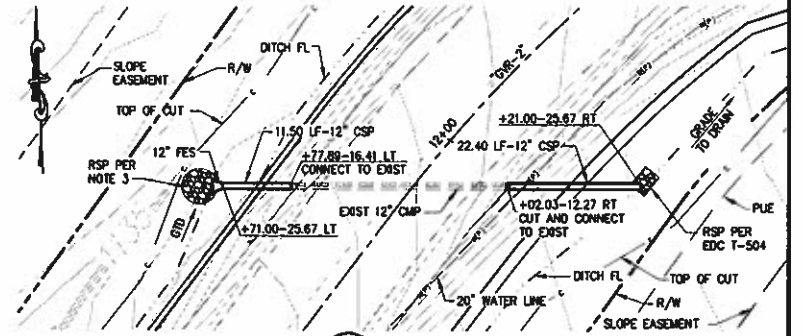
1 PROFILE
HORIZ 1"=10'
VERT 1"=2'

NOTES:

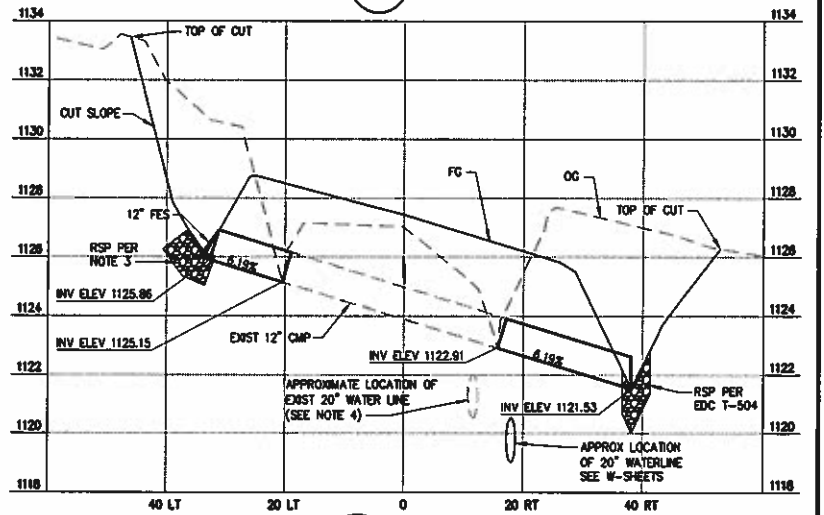
1. CONNECTION TO EXISTING CULVERTS SHALL BE BANDS PER D97B.
2. DITCH AND DITCH FLOWLINE SHALL BE ADJUSTED TO INSURE POSITIVE FLOW FROM DITCH TO FES.
3. CONSTRUCT 6" DIAMETER x 12" DEEP ROCK BOWL AT INLET LOCATIONS SHOWN.

LEGEND:

GTD GRADE TO DRAIN



2 PLAN
1"=10'



2 PROFILE
HORIZ 1"=10'
VERT 1"=2'

NO.	DATE	DESCRIPTION



PREPARED UNDER THE SUPERVISION OF
Richard E. Mohr
 REGISTERED CIVIL ENGINEER
 DATE: 5/20/10

DESIGNED BY: M.J.M.
 DRAWN BY: M.J.M.
 CHECKED BY: M.J.M.
 DATE: 05/03/10
 ROAD NUMBER: 000

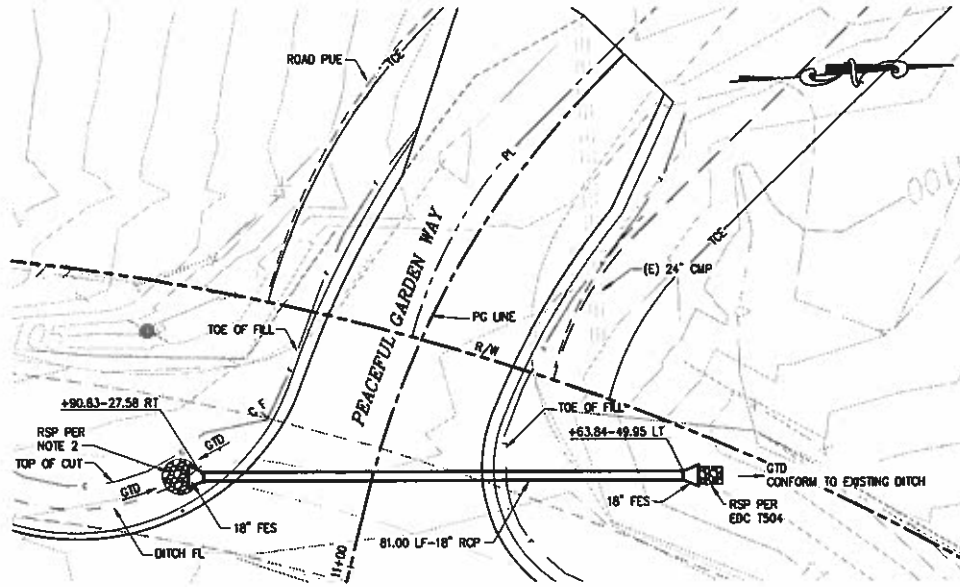


EL DORADO COUNTY
 DEPARTMENT OF TRANSPORTATION

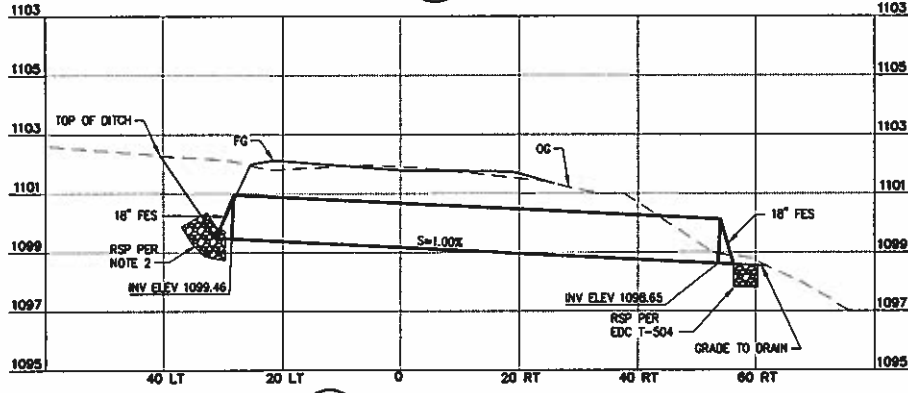
GREEN VALLEY ROAD AT TENNESSEE CREEK BRIDGE RECONSTRUCTION PROJECT DRAINAGE PLAN AND PROFILES

SHEET
D-1
 18 OF 81
 77109

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3 PLAN
1"=10'



3 PROFILE
HORIZ. 1"=10'
VERT. 1"=2'

LEGEND:
 GTD GRADE TO DRAIN
 PL PROPERTY LINE
 R/W RIGHT OF WAY
 TCE TEMPORARY CONSTRUCTION EASEMENT

NOTES:
 1. DITCH AND DITCH FLOWLINE SHALL BE ADJUSTED TO INSURE POSITIVE FLOW.
 2. CONSTRUCT 6" DIAMETER x 12" DEEP ROCK BOWL AT INLET LOCATIONS SHOWN.

REVISION	DATE	DESCRIPTION



PREPARED UNDER THE SUPERVISION OF
Thomas F. Mohr
 REGISTERED CIVIL ENGINEER
 DATE: 5/20/10

DESIGNED M.J.M.	DRAWN M.J.M.
CHECKED M.J.M.	DATE 05/03/10
ROAD NUMBER 000	



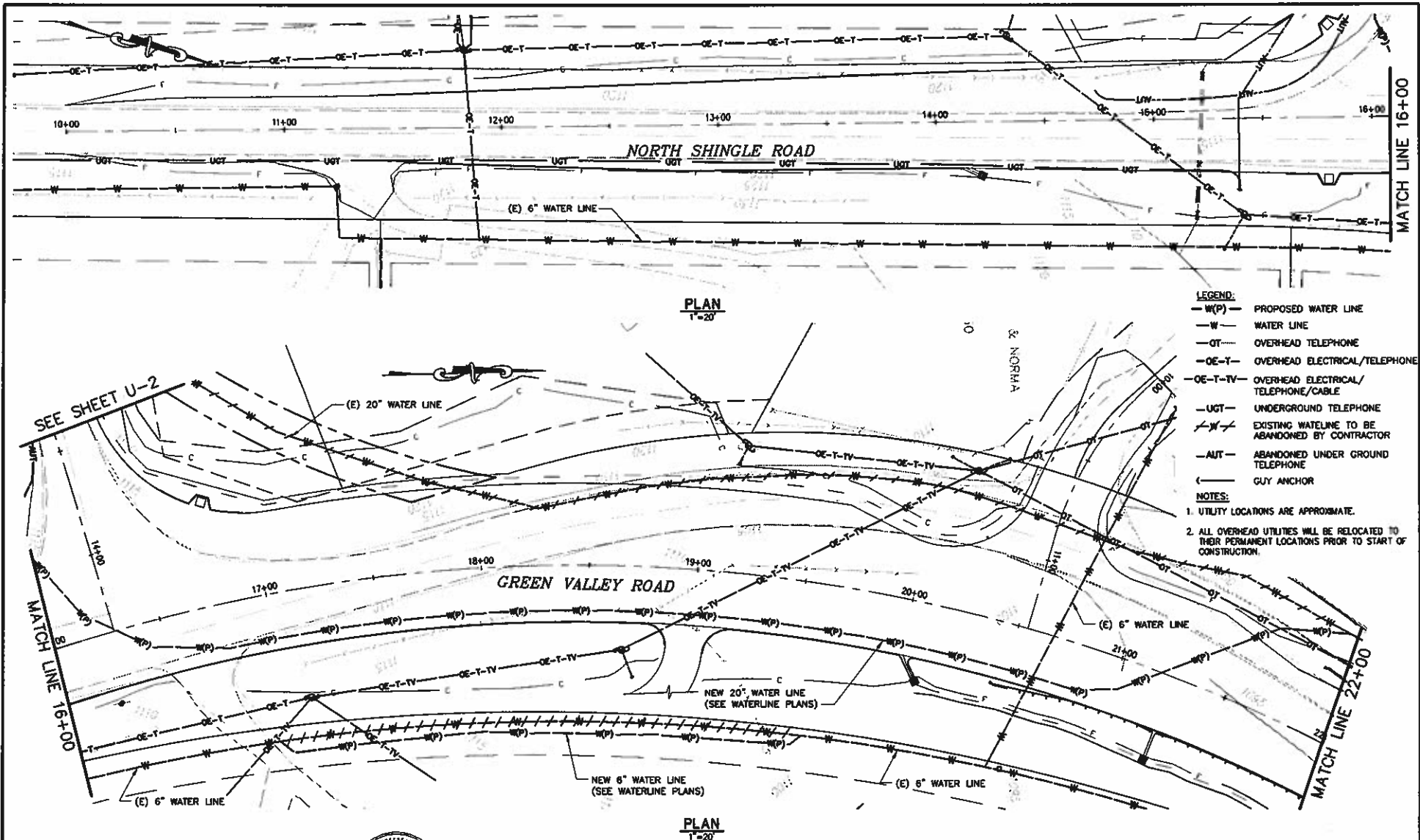
EL DORADO COUNTY
 DEPARTMENT OF TRANSPORTATION

GREEN VALLEY ROAD AT TENNESSEE
CREEK BRIDGE RECONSTRUCTION PROJECT
DRAINAGE PLAN AND PROFILES

SHEET
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 10 OF 61
 77109

10-0299.B.19

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 FOR REDUCED PLANS
 REVISION



NO.	DATE	DESCRIPTION



PREPARED UNDER THE SUPERVISION OF

 REGISTERED CIVIL ENGINEER
 DATE: 5/20/10

DESIGNED: M.J.M.
 CHECKED: H.E.M.
 DATE: 05/03/10
 ROAD NUMBER: 000

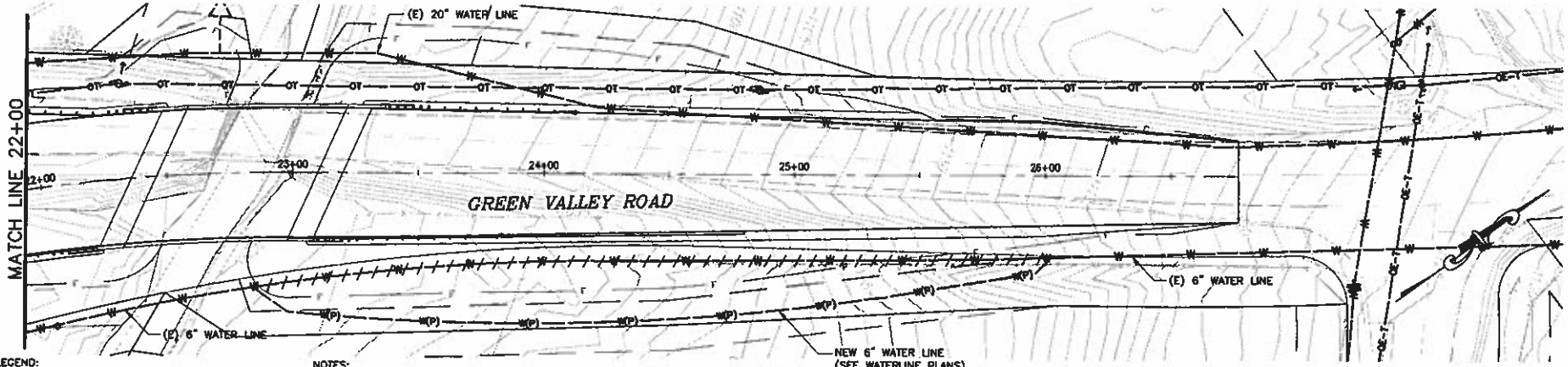


EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

GREEN VALLEY ROAD AT TENNESSEE CREEK BRIDGE RECONSTRUCTION PROJECT
UTILITY PLAN

SHEET
U-1
 20 of 61
 77109

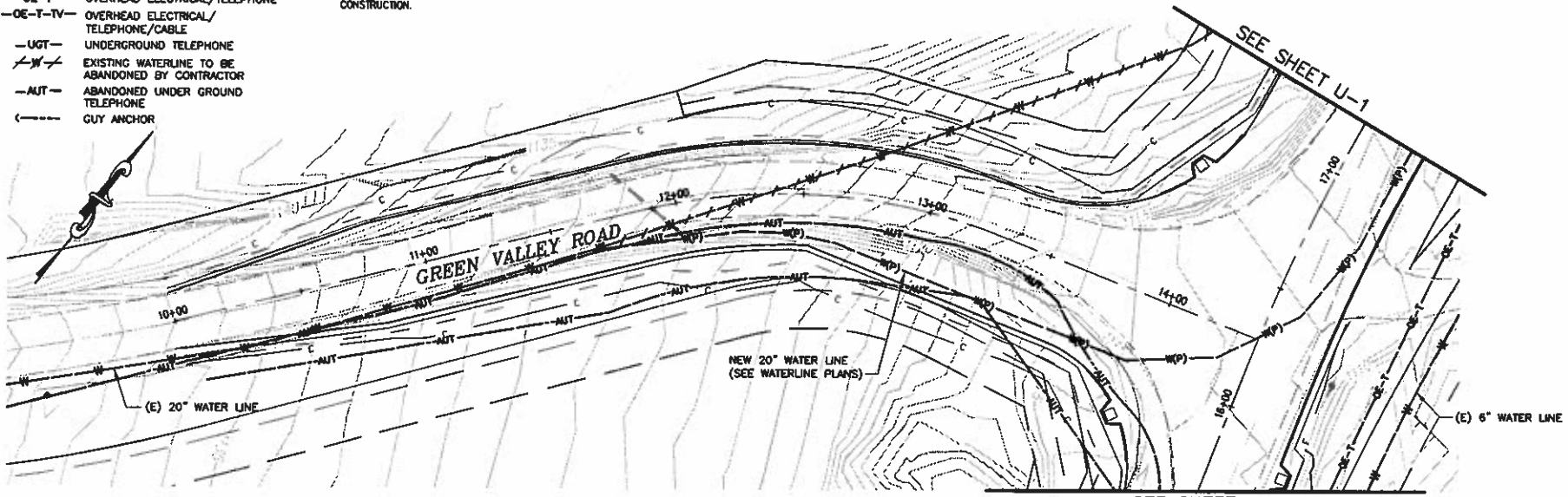
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- LEGEND:**
- W(P) - PROPOSED WATER LINE
 - W - WATER LINE
 - OT - OVERHEAD TELEPHONE
 - OE-T - OVERHEAD ELECTRICAL/TELEPHONE
 - OE-T-TV - OVERHEAD ELECTRICAL/TELEPHONE/CABLE
 - UGT - UNDERGROUND TELEPHONE
 - W - EXISTING WATERLINE TO BE ABANDONED BY CONTRACTOR
 - AUT - ABANDONED UNDER GROUND TELEPHONE
 - - - GUY ANCHOR

- NOTES:**
1. UTILITY LOCATIONS ARE APPROXIMATE.
 2. ALL OVERHEAD UTILITIES WILL BE RELOCATED TO THEIR PERMANENT LOCATIONS PRIOR TO START OF CONSTRUCTION.

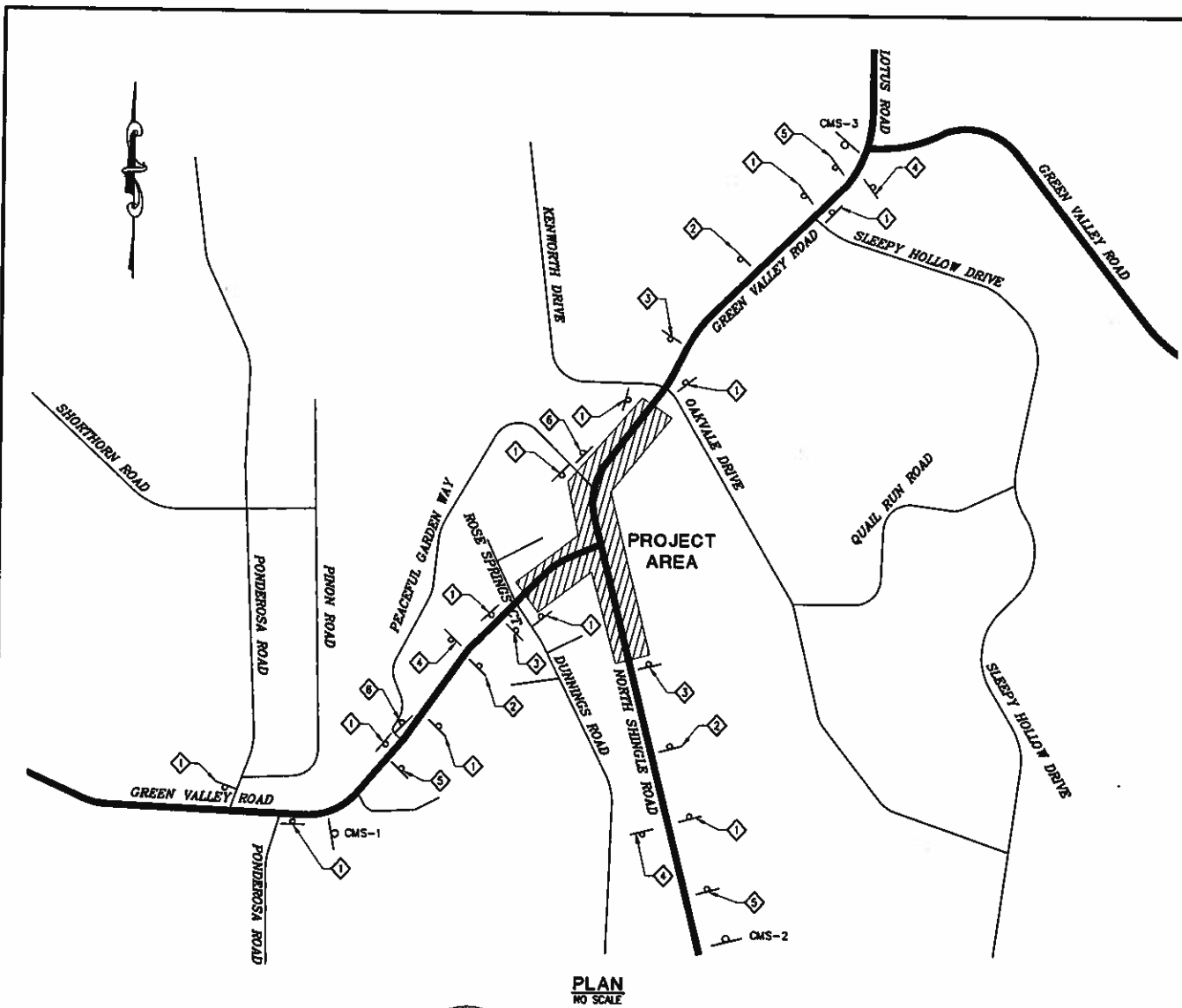
PLAN
1"=20'



PLAN
1"=20'

REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA LICENSE NO. C37508 CIVIL	PREPARED UNDER THE SUPERVISION OF REGISTERED CIVIL ENGINEER DATE: 5/20/10	RECORDS M.J.M. CHECKED M.J.M. ROAD NUMBER 000	DESIGN M.J.M. DATE 05/03/10	 EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION	GREEN VALLEY ROAD AT TENNESSEE CREEK BRIDGE RECONSTRUCTION PROJECT UTILITY PLAN	SHEET U-2 21 OF 61 77109
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Drawing Name: C:\Gis_30\Projects\17109_Tennessee Creek\CADD Files\Draws\CS-1.dwg Layout: Tab: CS-1, May 20, 2010 - 3:57pm Abasop
 ORIGINAL SCALE IS IN INCHES
 FOR REDUCED PLANS
 REVISION



PLAN
NO SCALE

SIGN SCHEDULE				
ID	SIGN CODE	DIMENSIONS	SIGN MESSAGE	MOUNTING DETAILS
1	W20-1	36"x36"	ROAD WORK 1000 FT	WOOD POST (1)
2	C-12	36"x36"	NARROW LANE(S)	WOOD POST (1)
3	W3-1 (ORANGE)	36"x36"	STOP AHEAD	WOOD POST (1)
4	G22-2	36"x18"	END ROAD WORK	WOOD POST (1)
5	C40	108"x42"	TRAFFIC FINES DOUBLED...	WOOD POST (2)
6		108"x42"	PRIVATE ROAD LOCAL RESIDENTS ONLY	WOOD POST (1)

NOTES:

1. ALL CONSTRUCTION AREA SIGNS SHALL CONFORM TO CHAPTER 6 OF THE CALIFORNIA MUTCD (2003).
2. FOR CONSTRUCTION AREA SIGNS NOT SHOWN HERE, SEE THE TRAFFIC HANDLING SHEETS.
3. SEE SHEET DE-1 FOR SIGN PLACEMENT DURING DETOUR STAGE.
4. EXACT LOCATIONS OF CONSTRUCTION AREA SIGNS AND PCMS SHALL BE AS DETERMINED IN THE FIELD BY THE ENGINEER.

NO.	DATE	DESCRIPTION



PREPARED UNDER THE SUPERVISION OF
E. L. Lynch
 REGISTERED CIVIL ENGINEER
 DATE: 5/20/10

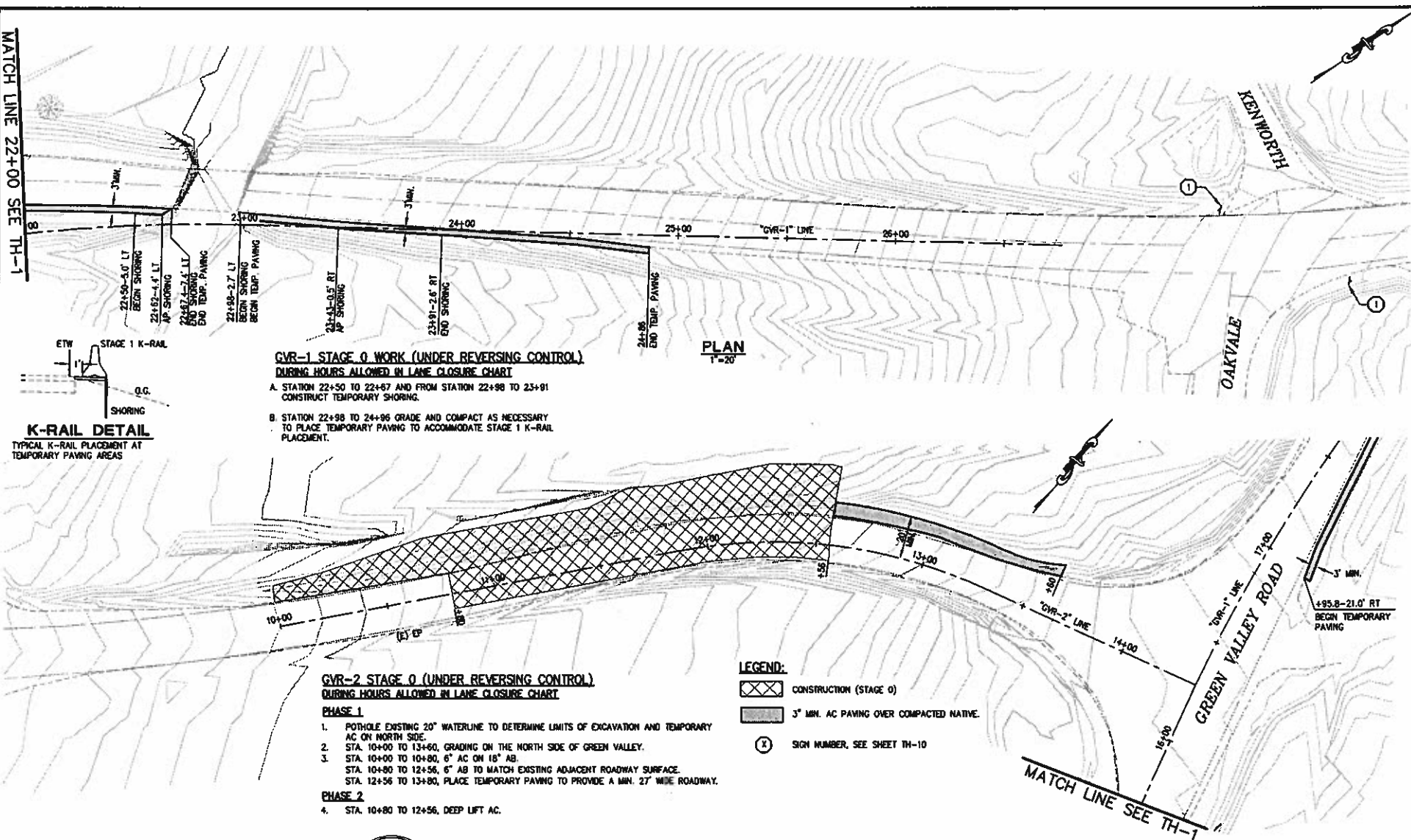


EL DORADO COUNTY
 DEPARTMENT OF TRANSPORTATION

**GREEN VALLEY ROAD AT TENNESSEE
 CREEK BRIDGE RECONSTRUCTION PROJECT
 CONSTRUCTION AREA SIGNS**

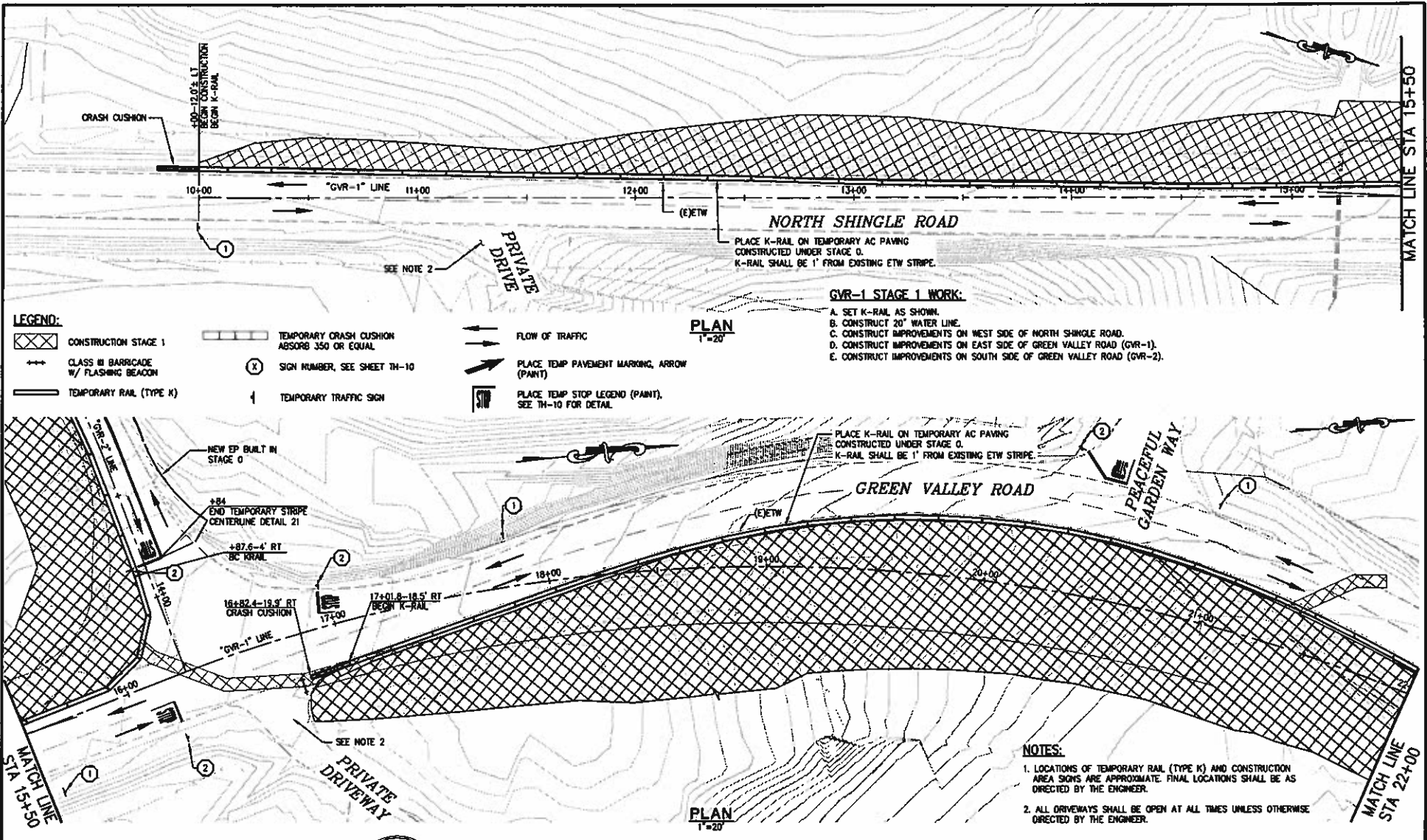
SHEET
CS-1
 22 OF 81
 77109

DRAWING SCALE: 1/8" = 1'-0" (ORIGINAL SCALE: 1/4" = 1'-0")
 SHEET TH-2 OF 61
 PROJECT: GREEN VALLEY ROAD AT TENNESSEE CREEK BRIDGE RECONSTRUCTION PROJECT - STAGE 0
 DATE: 5/20/10



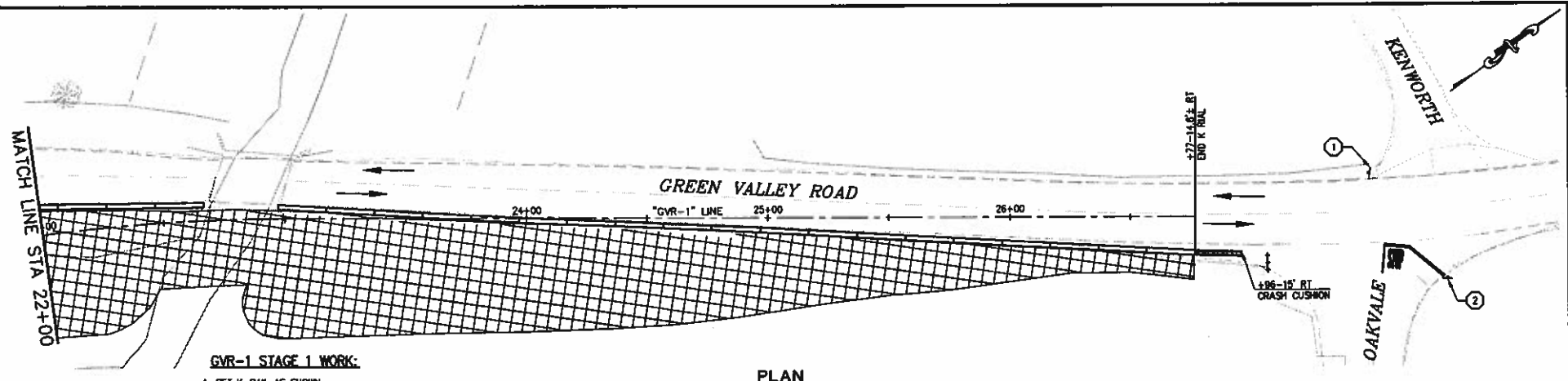
REVISION NO. DATE BY DESCRIPTION 1 5/20/10 JEM/MLM 2 5/20/10 JEM/MLM	PREPARED UNDER THE SUPERVISION OF REGISTERED CIVIL ENGINEER DATE: 5/20/10	DESIGNED: M.J.M. A.R.C. DRAWN: H.E.M. 05/03/10 ROAD NUMBER: 000	 EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION	GREEN VALLEY ROAD AT TENNESSEE CREEK BRIDGE RECONSTRUCTION PROJECT TRAFFIC HANDLING PLAN - STAGE 0	SHEET TH-2 24 OF 61 77108
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Drawing name: C:\cort_3d_projects\77109 Tennessee Creek\0300 Plans\Sheet\Th-3 STAGE 1.dwg Layout: Job: Th-3 STAGE 1 May 20, 2010 4:11pm Admin
 ORIGINAL SCALE IS IN INCHES
 FOR REDUCED PLANS



REVISION NO. DATE BY DESCRIPTION		PREPARED UNDER THE SUPERVISION OF REGISTERED CIVIL ENGINEER DATE: 5/20/10	DESIGNED: M.J.M. CHECKED: H.E.M. DATE: 05/03/10 POND NUMBER: 000		EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION	GREEN VALLEY ROAD AT TENNESSEE CREEK BRIDGE RECONSTRUCTION PROJECT TRAFFIC HANDLING PLAN - STAGE 1	SHEET TH-3 25 OF 61 77109
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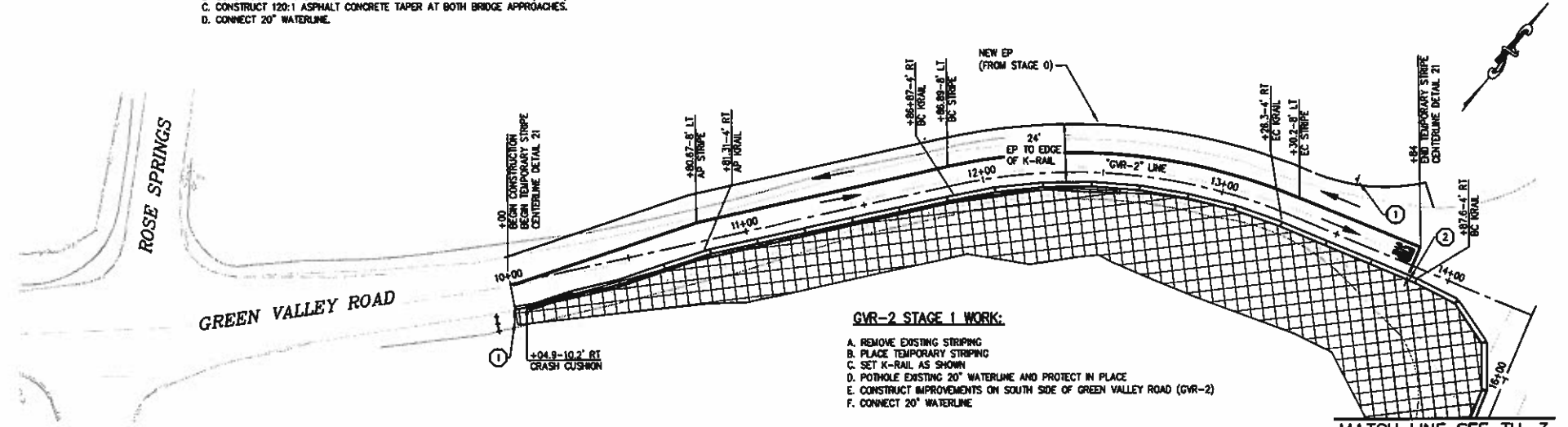
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 DATE: 5/20/10
 PROJECT: GREEN VALLEY ROAD AT TENNESSEE CREEK BRIDGE RECONSTRUCTION PROJECT - STAGE 1
 SHEET: TH-4 OF 61



GVR-1 STAGE 1 WORK:

- A. SET K-RAIL AS SHOWN.
- B. CONSTRUCT IMPROVEMENTS ON SOUTH SIDE OF GREEN VALLEY ROAD (GVR-1)
- C. CONSTRUCT 120:1 ASPHALT CONCRETE TAPER AT BOTH BRIDGE APPROACHES.
- D. CONNECT 20" WATERLINE.

PLAN
1"=20'



GVR-2 STAGE 1 WORK:

- A. REMOVE EXISTING STRIPING
- B. PLACE TEMPORARY STRIPING
- C. SET K-RAIL AS SHOWN
- D. POT HOLE EXISTING 20" WATERLINE AND PROTECT IN PLACE
- E. CONSTRUCT IMPROVEMENTS ON SOUTH SIDE OF GREEN VALLEY ROAD (GVR-2)
- F. CONNECT 20" WATERLINE

PLAN
1"=20'

NOTES:

- 1. LOCATIONS OF TEMPORARY RAIL (TYPE K) AND CONSTRUCTION AREA SIGNS ARE APPROXIMATE. FINAL LOCATIONS SHALL BE AS DIRECTED BY THE ENGINEER.
- 2. ALL DRIVEWAYS SHALL BE OPEN AT ALL TIMES UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

LEGEND:

- CONSTRUCTION (STAGE 1)
- CLASS III BARRICADE W/ FLASHING BEACON
- TEMPORARY RAIL (TYPE K)
- TEMPORARY CRASH CUSHION ABSORB 350 OR EQUAL
- TEMPORARY SIGN
- SIGN NUMBER, SEE SHEET TH-10
- FLOW OF TRAFFIC
- PLACE TEMP STOP LEGEND (PAINT), SEE TH-10 FOR DETAIL

MATCH LINE SEE TH-3

REVISION	DATE	DESCRIPTION



PREPARED UNDER THE SUPERVISION OF

 REGISTERED CIVIL ENGINEER
 DATE: 5/20/10

DESIGNED: M.E.M.
 CHECKED: H.E.M.
 DATE: 05/03/10
 ROAD NUMBER: 000

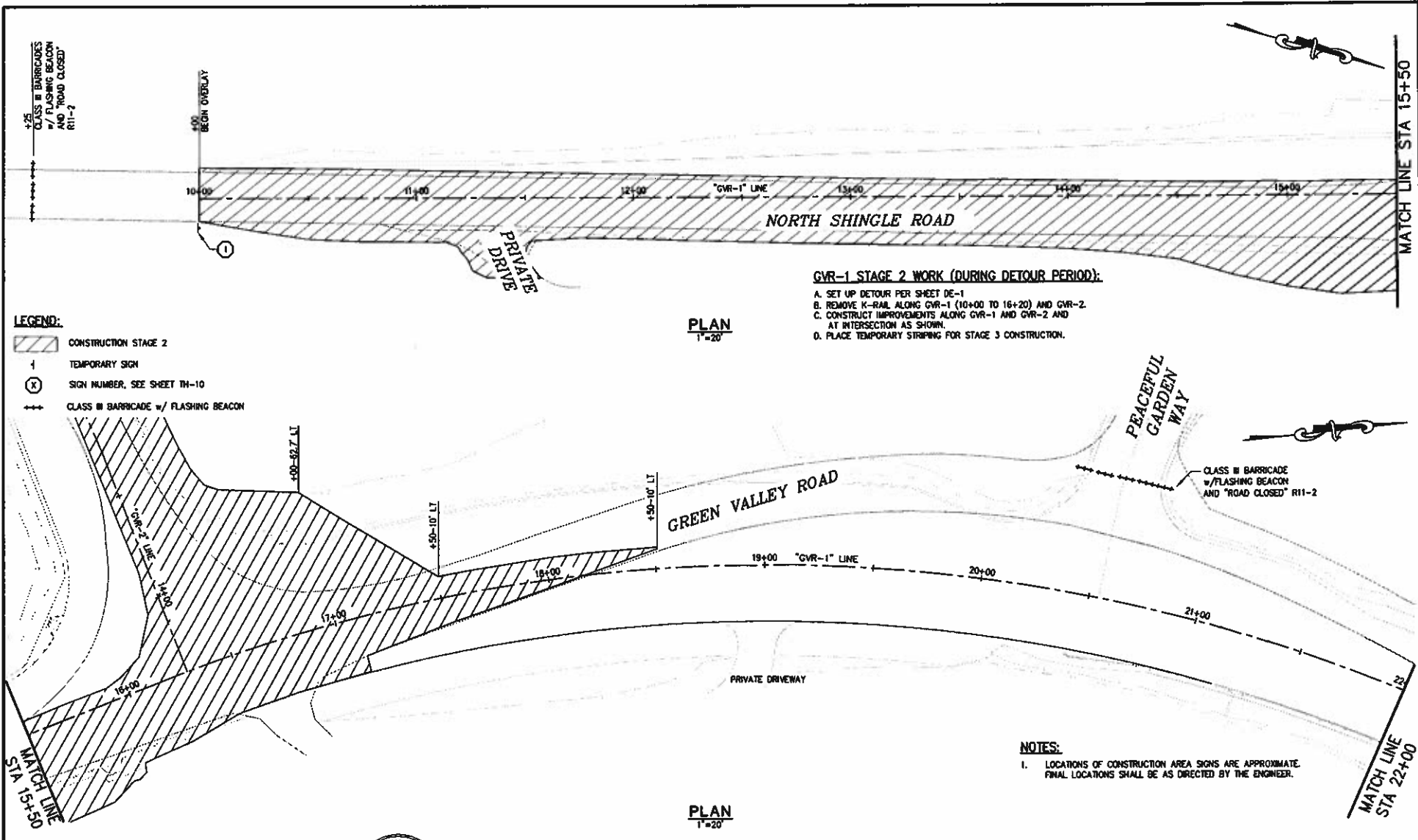


EL DORADO COUNTY
 DEPARTMENT OF TRANSPORTATION

GREEN VALLEY ROAD AT TENNESSEE CREEK BRIDGE RECONSTRUCTION PROJECT
 TRAFFIC HANDLING PLAN - STAGE 1

SHEET
 TH-4
 28 of 61
 77109

ORIGINAL SCALE IS IN INCHES
 DRAWING NAME: C:\elc\3\Projects\17109 Tennessee Creek\CAD Files\Drawings\TH-5 STAGE 1B.dwg Layout: Tab: TH-5 May 25, 2010 - 9:46am A0494g
 FOR REDUCED PLANS



- LEGEND:**
- CONSTRUCTION STAGE 2
 - TEMPORARY SIGN
 - SIGN NUMBER, SEE SHEET TH-10
 - CLASS III BARRICADE w/ FLASHING BEACON

GVR-1 STAGE 2 WORK (DURING DETOUR PERIOD):

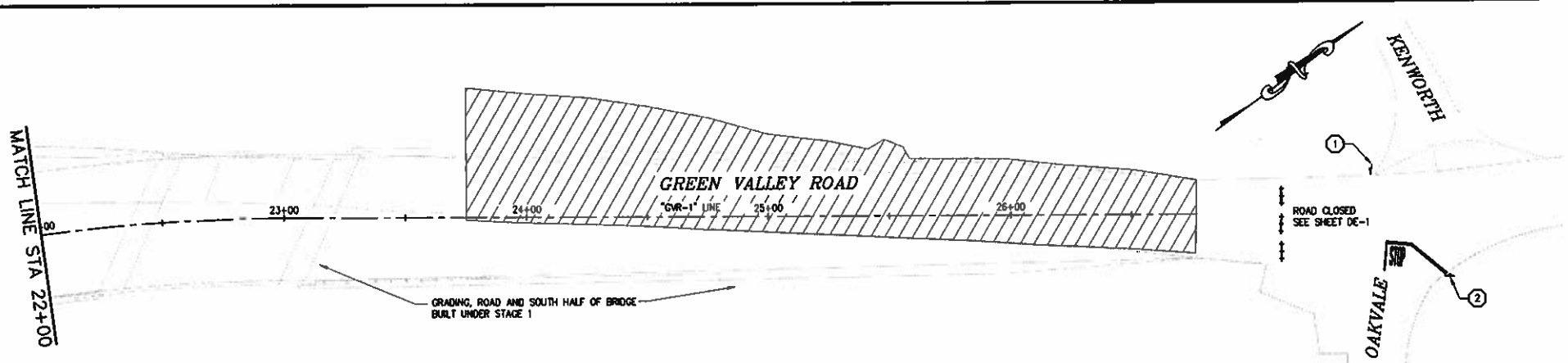
- A. SET UP DETOUR PER SHEET DE-1
- B. REMOVE K-RAIL ALONG GVR-1 (10+00 TO 16+20) AND GVR-2.
- C. CONSTRUCT IMPROVEMENTS ALONG GVR-1 AND GVR-2 AND AT INTERSECTION AS SHOWN.
- D. PLACE TEMPORARY STRIPING FOR STAGE 3 CONSTRUCTION.

NOTES:

1. LOCATIONS OF CONSTRUCTION AREA SIGNS ARE APPROXIMATE. FINAL LOCATIONS SHALL BE AS DIRECTED BY THE ENGINEER.

REVISION <table border="1" style="width: 100%; border-collapse: collapse;"> <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> <tr><td> </td><td> </td><td> </td><td> </td></tr> </table>																		PREPARED UNDER THE SUPERVISION OF REGISTERED CIVIL ENGINEER DATE: 5/20/10	DESIGNED: M.J.M. CHECKED: H.E.M. DATE: 05/03/10 DRAW NUMBER: 000		EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION	GREEN VALLEY ROAD AT TENNESSEE CREEK BRIDGE RECONSTRUCTION PROJECT TRAFFIC HANDLING PLAN - STAGE 2	SHEET TH-5 27 of 61 77109

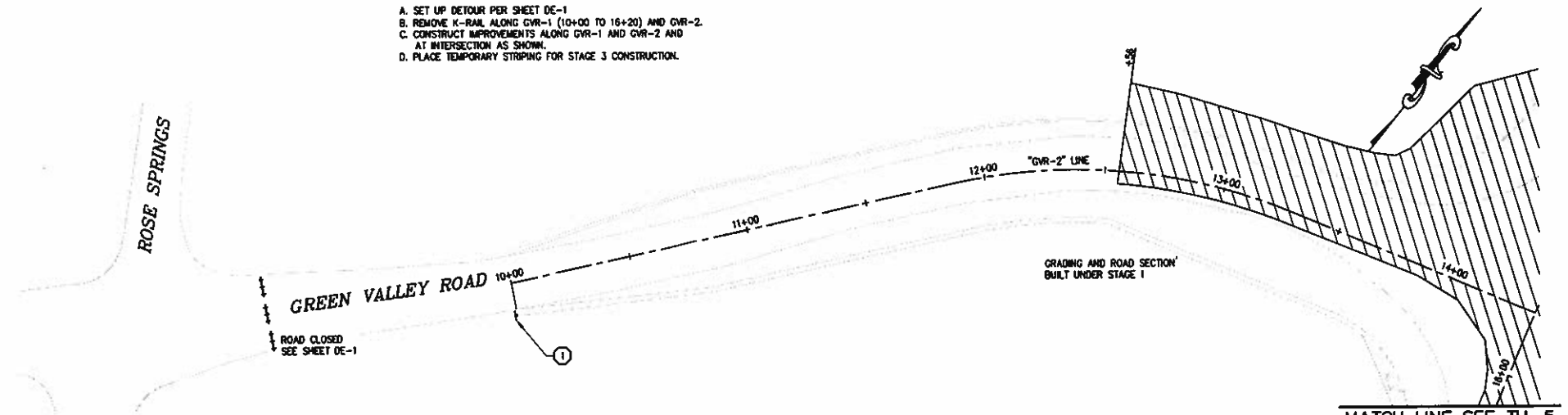
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 PROJECT: GREEN VALLEY ROAD AT TENNESSEE CREEK BRIDGE RECONSTRUCTION PROJECT
 DATE: 05/20/10
 SHEET: TH-6 OF 61
 10-0299.B.28



GVR-1 STAGE 2 WORK (DURING DETOUR PERIOD):

PLAN
1"=20'

- A. SET UP DETOUR PER SHEET DE-1
- B. REMOVE K-RAIL ALONG GVR-1 (10+00 TO 16+20) AND GVR-2.
- C. CONSTRUCT IMPROVEMENTS ALONG GVR-1 AND GVR-2 AND AT INTERSECTION AS SHOWN.
- D. PLACE TEMPORARY STRIPING FOR STAGE 3 CONSTRUCTION.



PLAN
1"=20'

- NOTES:**
- 1. LOCATIONS OF CONSTRUCTION AREA SIGNS ARE APPROXIMATE. FINAL LOCATIONS SHALL BE AS DIRECTED BY THE ENGINEER.

- LEGEND:**
- CONSTRUCTION STAGE 2
 - TEMPORARY SIGN
 - SIGN NUMBER, SEE SHEET TH-10
 - CLASS III BARRICADE =/ FLASHING BEACON

DESIGNED BY	DATE	CHECKED BY	DATE
DRAWN BY	DATE	APPROVED BY	DATE
PROJECT NO.	000		

PREPARED UNDER THE SUPERVISION OF

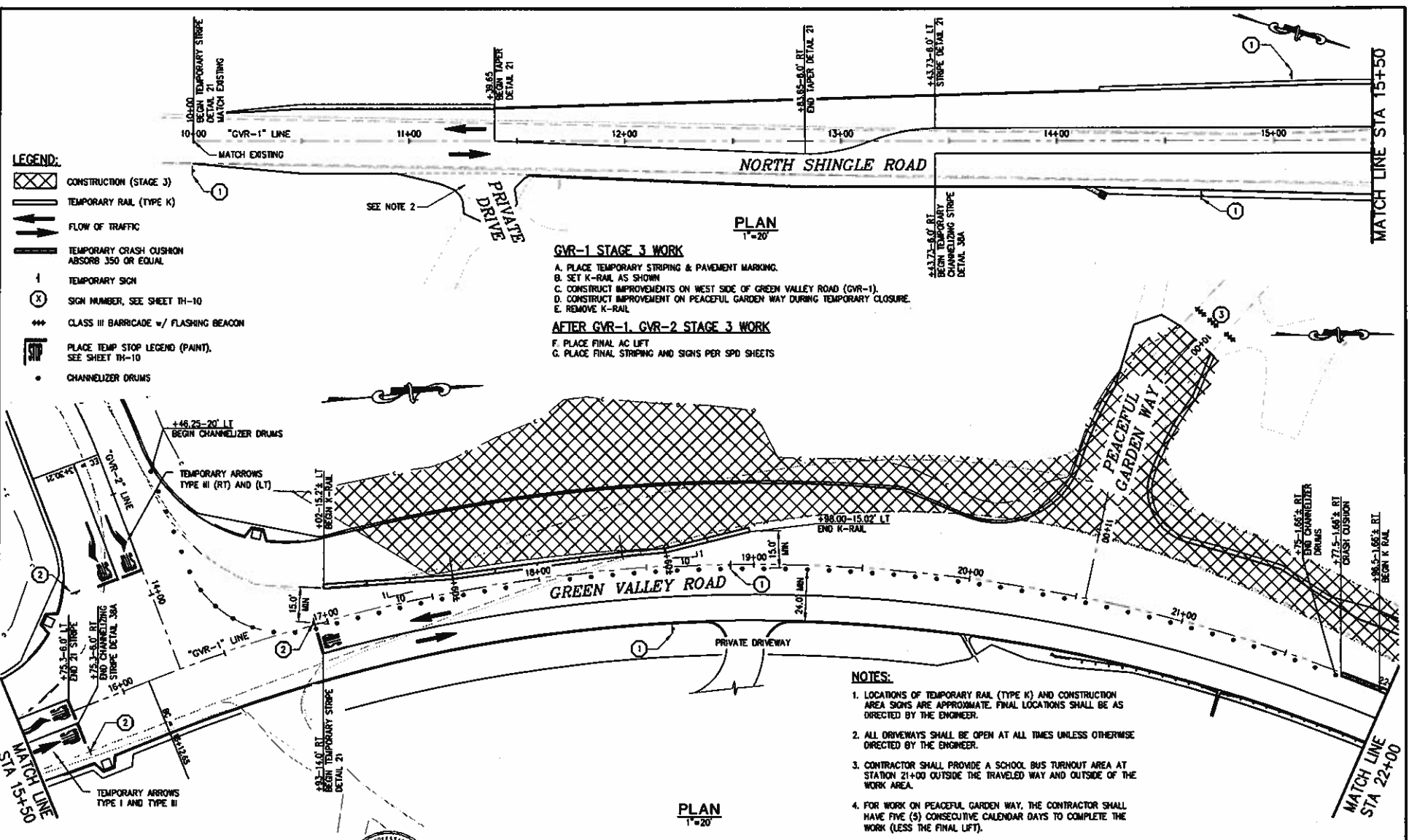
 REGISTERED CIVIL ENGINEER
 DATE: 5/20/10

EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

GREEN VALLEY ROAD AT TENNESSEE CREEK BRIDGE RECONSTRUCTION PROJECT
TRAFFIC HANDLING PLAN - STAGE 2

SHEET
TH-6
 28 OF 61
 77109

ORIGINAL SCALE IS IN INCHES
 FOR REDUCED PLANS
 DRAWING CONTRACTOR: C. Cort 3D Projects 77109 Tennessee Creek (CAD Files) Sheets TH-7 STAGE 3.dwg Layout Top TH-7 STAGE 3 May 20, 2010 - 4:26pm Autodesk



LEGEND:

- CONSTRUCTION (STAGE 3)
- TEMPORARY RAIL (TYPE K)
- FLOW OF TRAFFIC
- TEMPORARY CRASH CUSHION ABSORB 150 OR EQUAL
- TEMPORARY SIGN
- SIGN NUMBER, SEE SHEET TH-10
- CLASS III BARRICADE w/ FLASHING BEACON
- PLACE TEMP STOP LEGEND (PAINT), SEE SHEET TH-10
- CHANNELIZER DRUMS

GVR-1 STAGE 3 WORK

- A. PLACE TEMPORARY STRIPING & PAVEMENT MARKING.
- B. SET K-RAIL AS SHOWN
- C. CONSTRUCT IMPROVEMENTS ON WEST SIDE OF GREEN VALLEY ROAD (GVR-1).
- D. CONSTRUCT IMPROVEMENT ON PEACEFUL GARDEN WAY DURING TEMPORARY CLOSURE.
- E. REMOVE K-RAIL

AFTER GVR-1, GVR-2 STAGE 3 WORK

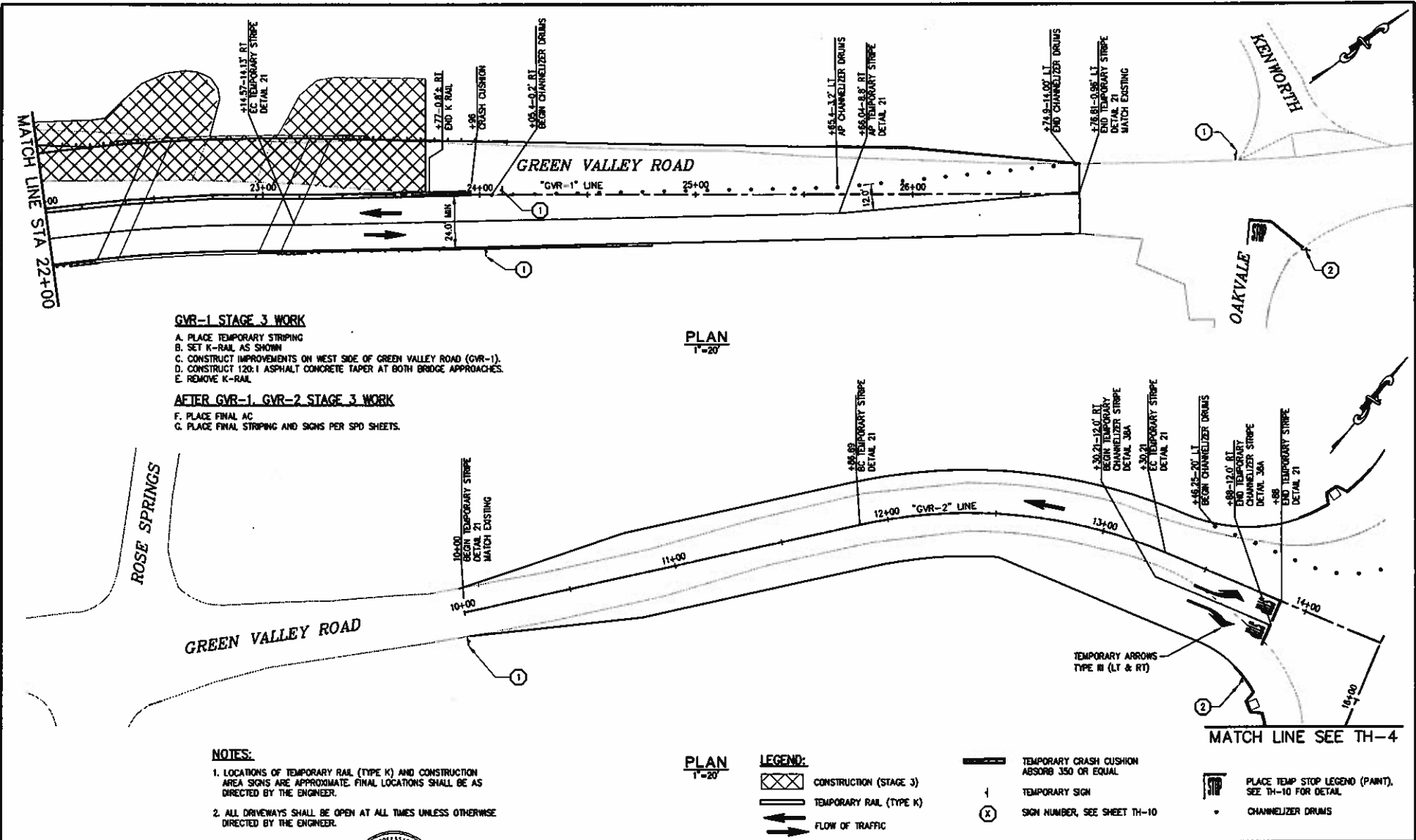
- F. PLACE FINAL AC LIFT
- G. PLACE FINAL STRIPING AND SIGNS PER SPD SHEETS

NOTES:

1. LOCATIONS OF TEMPORARY RAIL (TYPE K) AND CONSTRUCTION AREA SIGNS ARE APPROXIMATE. FINAL LOCATIONS SHALL BE AS DIRECTED BY THE ENGINEER.
2. ALL DRIVEWAYS SHALL BE OPEN AT ALL TIMES UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
3. CONTRACTOR SHALL PROVIDE A SCHOOL BUS TURNOUT AREA AT STATION 21+00 OUTSIDE THE TRAVELED WAY AND OUTSIDE OF THE WORK AREA.
4. FOR WORK ON PEACEFUL GARDEN WAY, THE CONTRACTOR SHALL HAVE FIVE (5) CONSECUTIVE CALENDAR DAYS TO COMPLETE THE WORK (LESS THE FINAL LIFT).

REVISIONS <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>NO.</td><td>DATE</td><td>DESCRIPTION</td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table>	NO.	DATE	DESCRIPTION											PREPARED UNDER THE SUPERVISION OF REGISTERED CIVIL ENGINEER DATE: 5/20/10	DESIGNED: M.A.M. CHECKED: H.E.M. DATE: 05/03/10		EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION	GREEN VALLEY ROAD AT TENNESSEE CREEK BRIDGE RECONSTRUCTION PROJECT TRAFFIC HANDLING PLAN - STAGE 3	SHEET TH-7 29 OF 61 77109
NO.	DATE	DESCRIPTION																	

Drawing name: \\cort-3d\Projects\17109 Tennessee Creek\000 Plans\Sheets\TH-8 STAGE 3.dwg Layout: 100: 7/18/2010 - 4:30pm A00000
 ORIGINAL SCALE IS IN INCHES
 FOR REDUCED PLANS
 REVISION



GVR-1 STAGE 3 WORK

- A. PLACE TEMPORARY STRIPING
- B. SET K-RAIL AS SHOWN
- C. CONSTRUCT IMPROVEMENTS ON WEST SIDE OF GREEN VALLEY ROAD (GVR-1).
- D. CONSTRUCT 120:1 ASPHALT CONCRETE TAPER AT BOTH BRIDGE APPROACHES.
- E. REMOVE K-RAIL

AFTER GVR-1, GVR-2 STAGE 3 WORK

- F. PLACE FINAL AC
- G. PLACE FINAL STRIPING AND SIGNS PER SPD SHEETS.

NOTES:

- 1. LOCATIONS OF TEMPORARY RAIL (TYPE K) AND CONSTRUCTION AREA SIGNS ARE APPROXIMATE. FINAL LOCATIONS SHALL BE AS DIRECTED BY THE ENGINEER.
- 2. ALL DRIVEWAYS SHALL BE OPEN AT ALL TIMES UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

PLAN
1"=20'

LEGEND:

- CONSTRUCTION (STAGE 3)
- TEMPORARY RAIL (TYPE K)
- FLOW OF TRAFFIC
- TEMPORARY CRASH CUSHION ABSORB 350 OR EQUAL
- TEMPORARY SIGN
- SIGN NUMBER, SEE SHEET TH-10
- PLACE TEMP STOP LEGEND (PAINT). SEE TH-10 FOR DETAIL
- CHANNELIZER DRUMS

NO.	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF

 REGISTERED CIVIL ENGINEER
 DATE: 5/29/10

DESIGNED: M.J.B.L.
 CHECKED: H.E.M.
 DATE: 05/03/10
 DTD NUMBER: 000

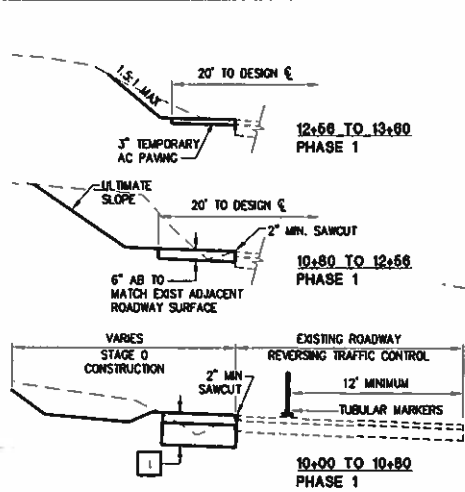


EL DORADO COUNTY
 DEPARTMENT OF TRANSPORTATION

GREEN VALLEY ROAD AT TENNESSEE CREEK BRIDGE RECONSTRUCTION PROJECT
TRAFFIC HANDLING PLAN - STAGE 3

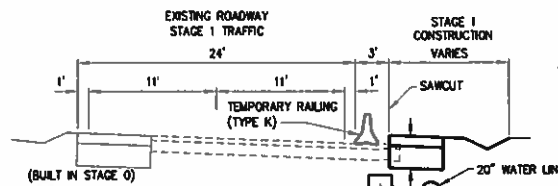
SHEET
TH-8
 30 OF 61
 77109

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 FOR REDUCED PLANS
 2
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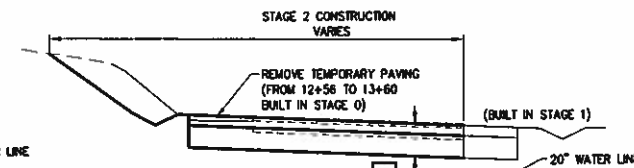


GVR-2 STAGE 0
STA 10+00 TO 13+60
 NTS

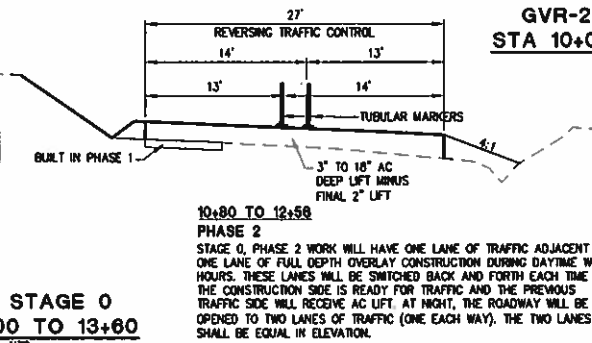
CONSTRUCTION NOTES:
 1 - 6" AC OVER 18" AB MINUS FINAL 2" LIFT



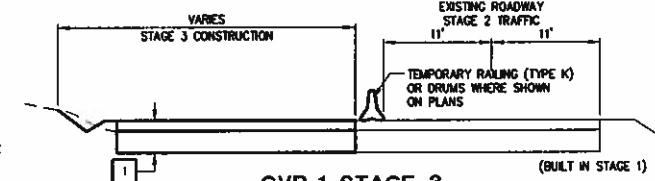
GVR-2 STAGE 1
STA 10+00 TO 14+37
 NTS



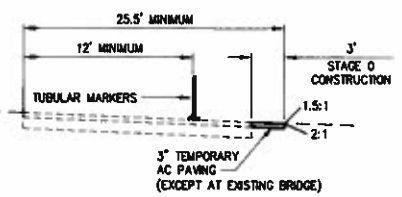
GVR-2 STAGE 2 - NO TRAFFIC
STA 12+56 TO 14+37
 NTS



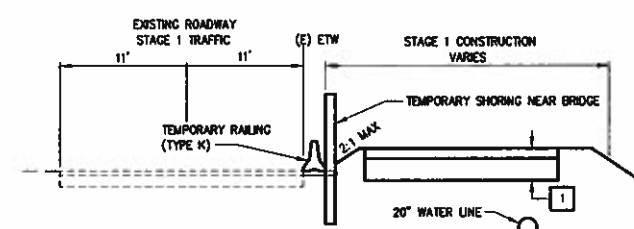
10+80 TO 12+58
PHASE 2
 STAGE 0, PHASE 2 WORK WILL HAVE ONE LANE OF TRAFFIC ADJACENT TO ONE LANE OF FULL DEPTH OVERLAY CONSTRUCTION DURING DAYTIME WORK HOURS. THESE LANES WILL BE SWITCHED BACK AND FORTH EACH TIME THE CONSTRUCTION SIDE IS READY FOR TRAFFIC AND THE PREVIOUS TRAFFIC SIDE WILL RECEIVE AC LIFT. AT NIGHT, THE ROADWAY WILL BE OPENED TO TWO LANES OF TRAFFIC (ONE EACH WAY). THE TWO LANES SHALL BE EQUAL IN ELEVATION.



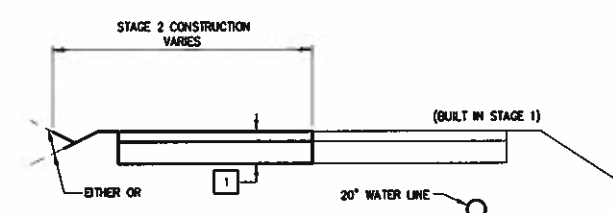
GVR-1 STAGE 3
STA 17+00 TO 23+75
 NTS



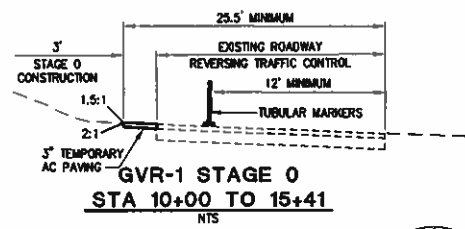
GVR-1 STAGE 0
STA 16+95 TO 24+86
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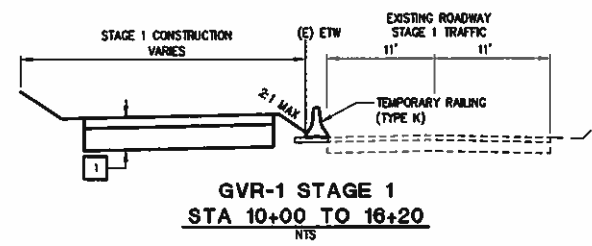
GVR-1 STAGE 1
STA 16+80 TO 26+80
 NTS



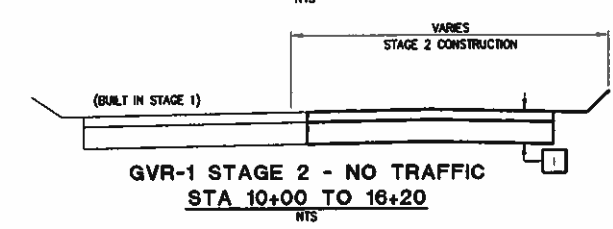
GVR-1 STAGE 2 - NO TRAFFIC
STA 16+20 TO 18+50
STA 23+75 TO 26+80
 NTS



GVR-1 STAGE 0
STA 10+00 TO 15+41
 NTS



GVR-1 STAGE 1
STA 10+00 TO 16+20
 NTS



GVR-1 STAGE 2 - NO TRAFFIC
STA 10+00 TO 16+20
 NTS



PREPARED UNDER THE SUPERVISION OF
 [Signature]
 REGISTERED CIVIL ENGINEER 5/20/10

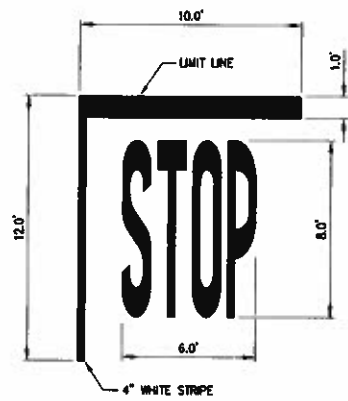


EL DORADO COUNTY
 DEPARTMENT OF TRANSPORTATION

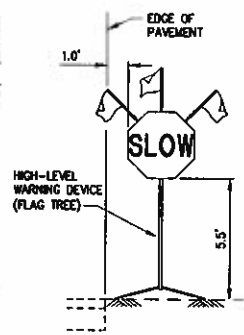
GREEN VALLEY ROAD AT TENNESSEE CREEK BRIDGE RECONSTRUCTION PROJECT
TRAFFIC HANDLING SECTIONS

SHEET
TH-9
 31 of 81
 77109

ORIGINAL SCALE IS IN INCHES
 FOR REDUCED PLANS
 DRAWING NO. 17109
 PROJECT 17109 Tennessee Creek (C&D) Final (Sheet) TH-DETAILS.dwg
 Layout Tab: TH - May 20, 2010 - 4:13pm Adu-up






TEMPORARY STOP LEGEND
NTS



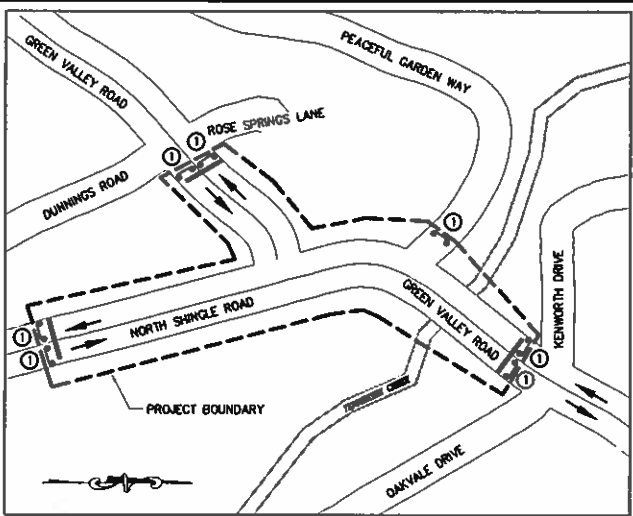
HIGH-LEVEL WARNING DEVICE DETAIL
NTS

SIGN SCHEDULE

ID	SIGN CODE	DIMENSIONS	SIGN MESSAGE	MOUNTING DETAILS
1	C17-25	24"x24"	ROAD WORK SPEED LIMIT	HIGH LEVEL WARNING DEVICE
2	R1-1	30"x30"	STOP	SINGLE POST
3	R11-2	48"x30"	ROAD CLOSED	ON BARRICADE

REVIEWER _____ DATE _____		PREPARED UNDER THE SUPERVISION OF  REGISTERED CIVIL ENGINEER DATE: 5/20/10	DESIGNER M.J.M. CHECKED H.E.M. ROAD NUMBER 000	DRAWN A.R.C. DATE 05/03/10	 <p>EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION</p>	<p>GREEN VALLEY ROAD AT TENNESSEE CREEK BRIDGE RECONSTRUCTION PROJECT TRAFFIC HANDLING DETAILS</p>	SHEET TH-10 32 of 61 77109
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 ORIGINAL SCALE IS IN INCHES
 FOR REDUCED PLANS



DETAIL "A"
NTS

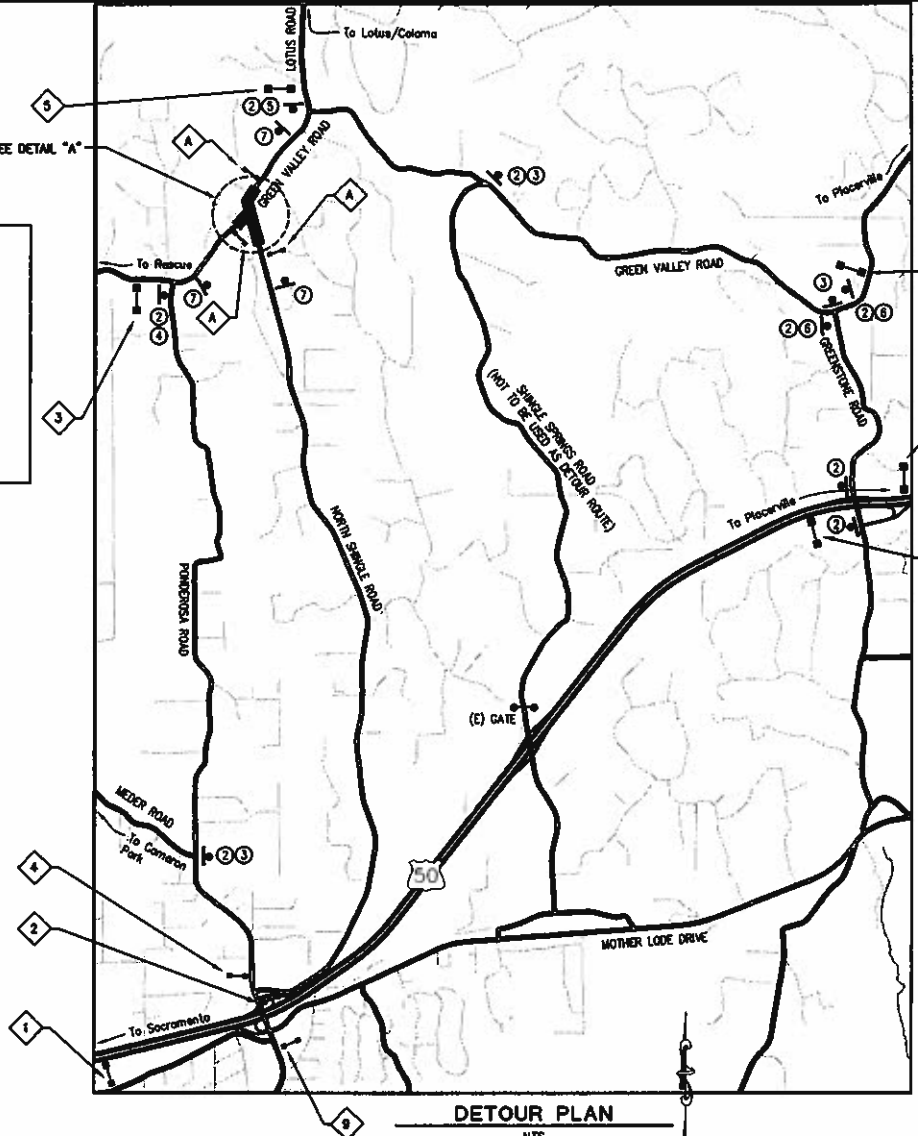
- SIGN LEGEND**
- ① R11-2 "ROAD CLOSED"
 - ② M4-10 "DETOUR" (ARROW)
 - ③ "GREEN VALLEY RD/NORTH SHINGLE RD INTERSECTION CLOSED - USE ALTERNATE ROUTE"
 - ④ "DETOUR TO US 50 4.1 MI."
 - ⑤ "DETOUR TO US 50 3.7 MI."
 - ⑥ "DETOUR TO US 50"
 - ⑦ "ROAD CLOSED AHEAD LOCAL TRAFFIC ONLY"

PCMS No.	FIRST FLASH	SECOND FLASH	THIRD FLASH
Ⓐ	N SHINGLE/GREEN VLY INTERSECTION CLOSED	(DATES CLOSED)	USE ALTERNATE ROUTE
①	N SHINGLE/GREEN VLY INTERSECTION CLOSED	USE GREENSTONE RD EXIT	FOR LOTUS/COLOMA
② ③	N SHINGLE/GREEN VLY INTERSECTION CLOSED	USE PONDEROSA RD	---
④	LOTUS RD/COLOMA DETOUR	US 50 EAST TO	GREENSTONE RD EXIT
⑤	N SHINGLE/GREEN VLY INTERSECTION CLOSED	RESCUE DETOUR-US 50 WEST	TO PONDEROSA RD EXIT
⑥	N SHINGLE/GREEN VLY INTERSECTION CLOSED	RESCUE DETOUR-US 50 WEST	TO PONDEROSA RD EXIT
⑦	LOTUS RD/COLOMA DETOUR	USE GREENSTONE RD EXIT	---
⑧	LOTUS RD/COLOMA DETOUR	USE GREENSTONE RD EXIT	---
⑨	N SHINGLE/GREEN VLY INTERSECTION CLOSED	USE PONDEROSA RD OR	US 50 EAST TO GREENSTONE RD FOR LOTUS RD

LEGEND

- █ CLOSURE AREA
- DIRECTION OF TRAVEL
- Ⓜ PCMS - PORTABLE CHANGABLE MESSAGE SIGN
- Ⓐ ADVANCED PLACEMENT PCMS - TO BE POSTED SEVEN (7) DAYS PRIOR TO CLOSURE PERIOD
- Ⓢ PCMS No. (POSTED DURING CLOSURE PERIOD)
- Ⓜ TYPE II BARRICADE w/ FLASHING BEACON
- Ⓜ TEMPORARY SIGN
- Ⓜ TEMPORARY RAIL (TYPE K)

ADVANCED WARNING SIGNS TO BE PLACED PER CALIFORNIA MANUAL ON TRAFFIC CONTROL DEVICES. EXACT LOCATION OF SIGNS, BARRICADES AND RAILING TO BE DETERMINED BY THE ENGINEER.



DETOUR PLAN
NTS

REVISION	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF
David W. Morrison
 REGISTERED CIVIL ENGINEER DATE 5/20/10

DESIGNED BY: DMH
 CHECKED BY: JPL
 DATE: 05/03/10
 ROAD NUMBER: 000

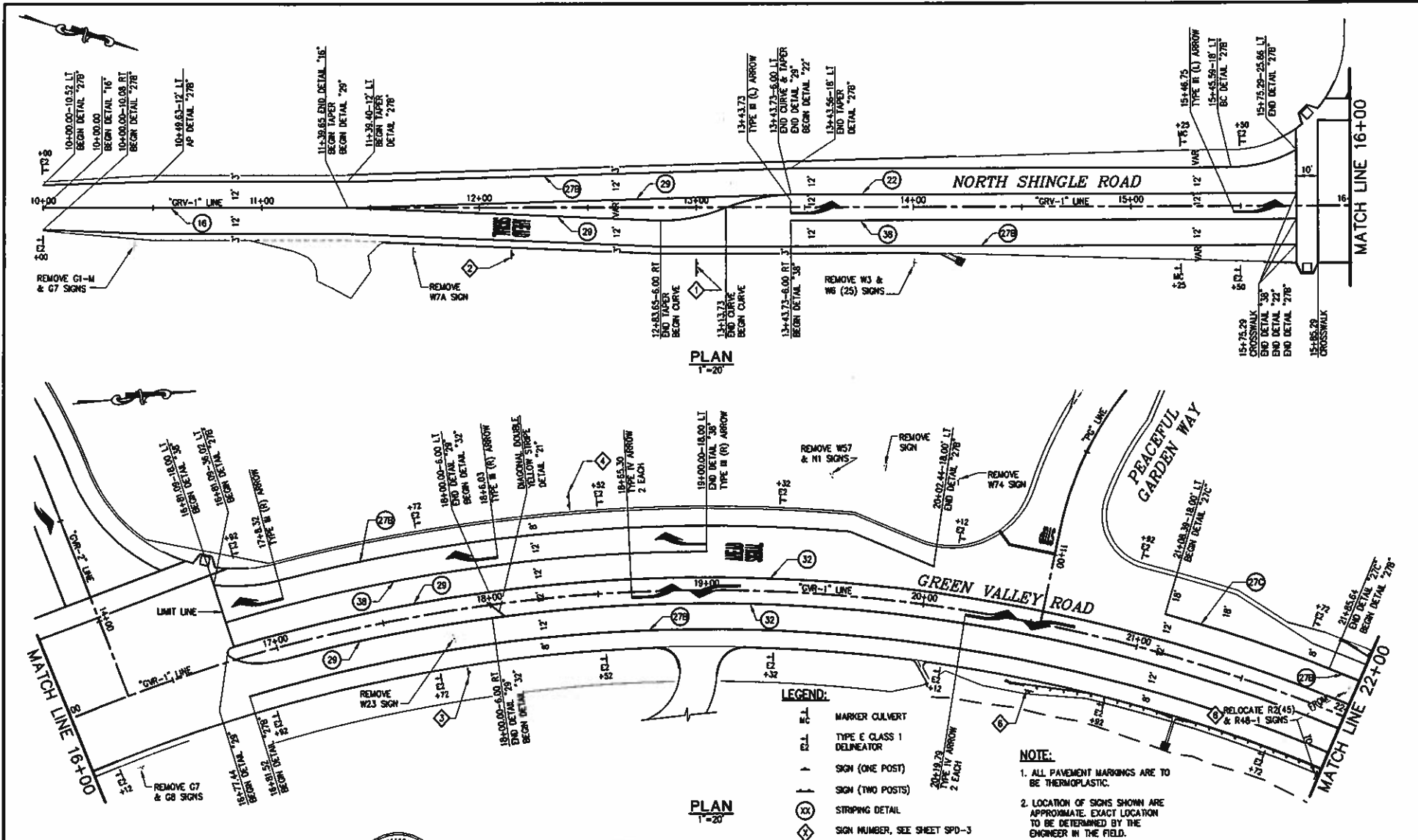


EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

GREEN VALLEY ROAD AT TENNESSEE CREEK BRIDGE RECONSTRUCTION PROJECT
DETOUR PLAN (STAGE 2)

SHEET DE-1
33 OF 61
77109

ORIGINAL SCALE IS IN INCHES
 FOR REDUCED PLANS
 DRAWING NAME: C:\cadd\3d_projects\7109 Tennessee Creek\COO First\Sheet\SPD-1.dwg Layout: 100 May 20, 2010 4:32pm xtdpaw



PLAN 1-20

PLAN 1-20

- LEGEND:**
- MARKER CULVERT
 - TYPE E CLASS 1 DELINEATOR
 - SIGN (ONE POST)
 - SIGN (TWO POSTS)
 - STRIPING DETAIL
 - SIGN NUMBER, SEE SHEET SPD-3

NOTE:

1. ALL PAVEMENT MARKINGS ARE TO BE THERMOPLASTIC.
2. LOCATION OF SIGNS SHOWN ARE APPROXIMATE. EXACT LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

REVISION	NO.	DATE	BY	DESCRIPTION



PREPARED UNDER THE SUPERVISION OF

 REGISTERED CIVIL ENGINEER
 DATE: 5/20/10

DESIGNED BY: M.J.M. A.R.C.
 CHECKED BY: H.E.M. DATE: 05/03/10
 ROAD NUMBER: 000

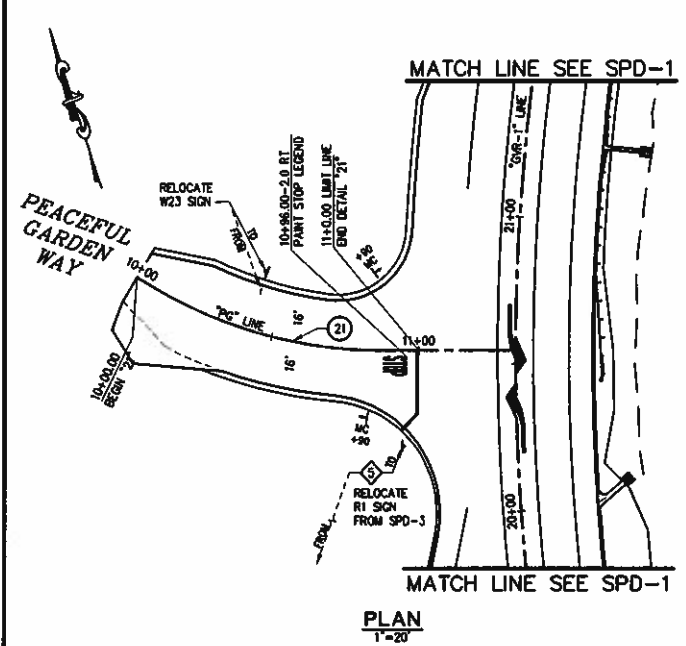
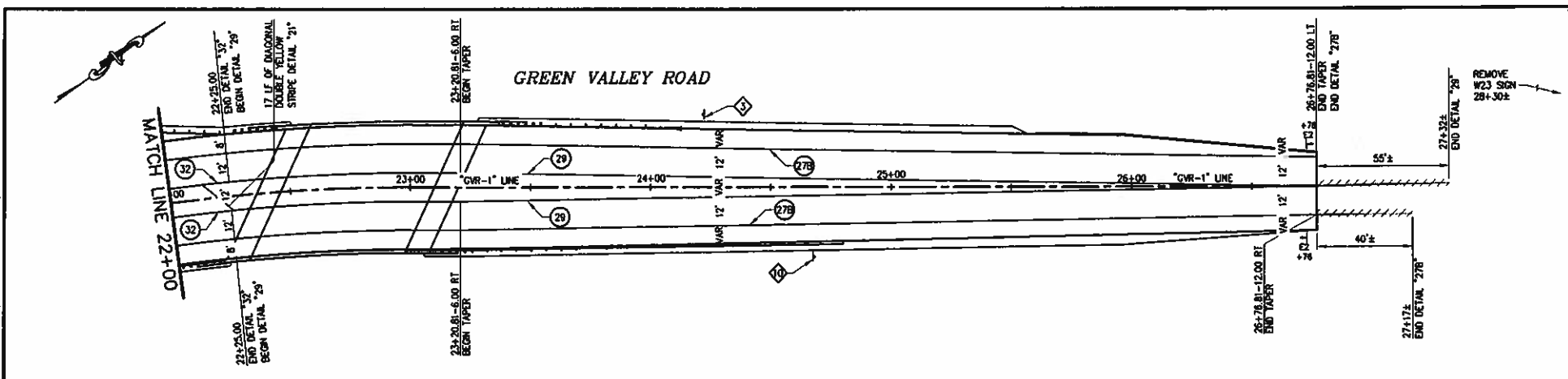


EL DORADO COUNTY
 DEPARTMENT OF TRANSPORTATION

GREEN VALLEY ROAD AT TENNESSEE CREEK BRIDGE RECONSTRUCTION PROJECT
 SIGNING AND PAVEMENT DELINEATION

SHEET
 SPD-1
 34 OF 61
 77109

Drawing Name: C:\Local_30\Projects\11109 Tennessee Creek\CAD\Plans\SPD-2.dwg Project: 11109 Tennessee Creek\CAD\Plans\SPD-2.dwg Date: 05/20/10 4:30pm Address:



- LEGEND:**
- MARKER CULVERT
 - TYPE E CLASS 1 DELINEATOR
 - SIGN (ONE POST)
 - SIGN (TWO POSTS)
 - STRIPING REMOVAL
 - STRIPING DETAIL
 - SIGN NUMBER, SEE SHEET SPD-3

- NOTE:**
1. ALL PAYMENT MARKINGS ARE TO BE THERMOPLASTIC.
 2. LOCATION OF SIGNS SHOWN ARE APPROXIMATE. EXACT LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

NO.	DATE	DESCRIPTION



PREPARED UNDER THE SUPERVISION OF

 THOMAS E. MOHALL
 No. 52588
 CIVIL
 REGISTERED CIVIL ENGINEER
 DATE: 5/20/10

DESIGNED: M.J.M.
 DRAWN: A.J.C.
 CHECKED: H.E.M.
 DATE: 05/03/10
 ROAD NUMBER: 000



EL DORADO COUNTY
 DEPARTMENT OF TRANSPORTATION

GREEN VALLEY ROAD AT TENNESSEE CREEK BRIDGE RECONSTRUCTION PROJECT
SIGNING AND PAVEMENT DELINEATION

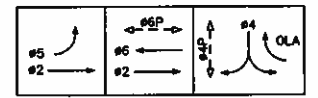
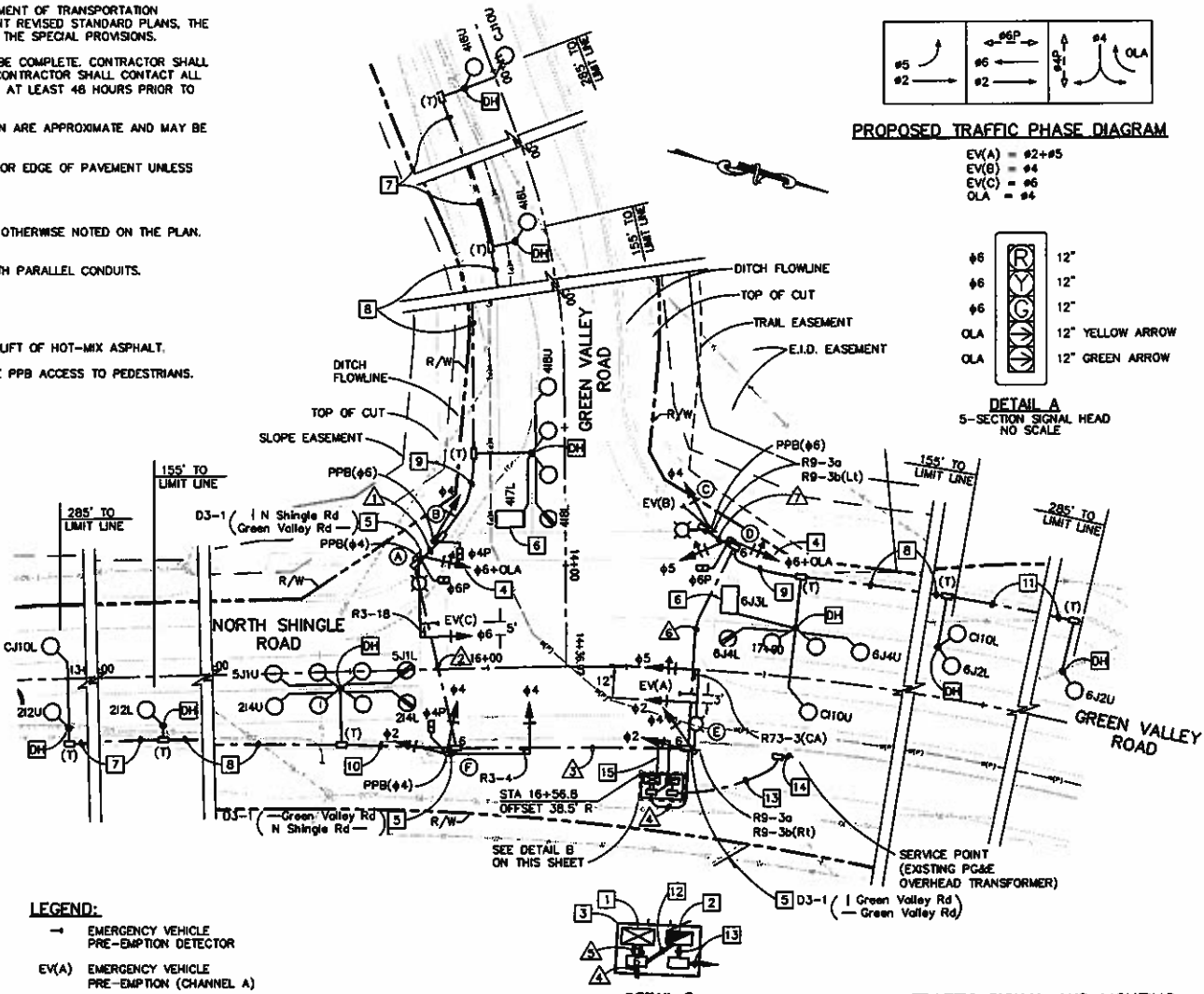
SHEET
SPD-2
 35 OF 61
 77109

TRAFFIC SIGNAL GENERAL NOTES:

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLANS AND STANDARD SPECIFICATIONS DATED MAY 2006 AND THEIR SUBSEQUENT REVISED STANDARD PLANS, THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES DATED SEPTEMBER 2006 AND THE SPECIAL PROVISIONS.
2. LOCATIONS OF EXISTING UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE AND MAY NOT BE COMPLETE. CONTRACTOR SHALL VERIFY THE EXISTENCE, LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES / DISTRICTS AND UNDERGROUND SERVICE ALERT (USA, 800-642-2444) AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
3. THE LOCATION OF ALL PULL BOXES, CONDUITS AND OTHER EQUIPMENT SHOWN ON THE PLAN ARE APPROXIMATE AND MAY BE CHANGED TO SUIT FIELD CONDITION AS DIRECTED BY THE ENGINEER.
4. ALL SIGNAL POLES SHALL HAVE A MINIMUM OF 4.5' CLEARANCE FROM THE FACE OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED ON THE PLAN.
5. ALL PULL BOXES SHALL BE No.5 UNLESS OTHERWISE NOTED ON THE PLAN.
6. ALL DETECTOR LOOPS SHALL BE INSTALLED AT THE CENTER OF THE TRAVEL LANE UNLESS OTHERWISE NOTED ON THE PLAN. SEE SHEET E-3 FOR TYPICAL DETECTOR LOOP LAYOUT.
7. DETECTOR HANDHOLES AND HOME RUN CONDUIT SHALL BE PLACED IN COMMON TRENCH WITH PARALLEL CONDUITS.
8. TYPE V PEU SHALL BE MOUNTED IN THE SERVICE CABINET.
9. ALL LOOPS TO BE TYPE E, UNLESS OTHERWISE NOTED.
10. ALL ELECTRICAL WORK SHALL BE COMPLETED AND TESTED PRIOR TO PLACEMENT OF FINAL LIFT OF HOT-MIX ASPHALT.
11. ALL SIGNAL POLES WITH PPB SHALL BE LOCATED IMMEDIATELY BEHIND AC DIKE TO PROVIDE PPB ACCESS TO PEDESTRIANS.
12. BOTTOM OF ALL SIGNAL POLE BASEPLATES SHALL BE FLUSH WITH FINISHED GRADE.

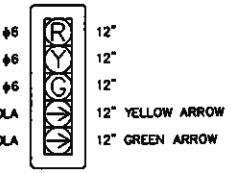
PROJECT NOTES: (FOR THIS SHEET ONLY)

- 1 INSTALL COUNTY-FURNISHED MODEL P CABINET ASSEMBLY. FRONT DOOR OF CONTROLLER CABINET SHALL FACE EAST. SEE SHEET E-3 FOR DETAILS.
- 2 INSTALL COUNTY-FURNISHED TESCO MODEL 27-22 SERVICE EQUIPMENT ENCLOSURE AND BATTERY BACKUP SYSTEM (BBS) CABINET. DOOR OF SERVICE EQUIPMENT ENCLOSURE SHALL FACE WEST. DOOR OF BBS CABINET SHALL FACE EAST. SEE SHEET E-3 FOR CONSTRUCTION DETAILS AND WIRING DIAGRAM.
- 3 CONSTRUCT P.C.C. PAD FOR CONTROLLER CABINET AND SERVICE EQUIPMENT ENCLOSURE. SEE SHEET E-3 FOR DETAILS.
- 4 FURNISH AND INSTALL 5-SECTION SIGNAL HEAD. SEE DETAIL A ON THIS SHEET.
- 5 FURNISH AND INSTALL STREET NAME SIGN ON SIGNAL POLE. SEE SHEET E-3 FOR MOUNTING DETAIL.
- 6 INSTALL 6'x10' TYPE A DETECTOR LOOP.
- 7 2"C, 2 DLC.
- 8 2"C, 3 DLC.
- 9 2½"C, 6 DLC.
- 10 2½"C, 7 DLC.
- 11 2"C, 1 DLC.
- 12 2"C, 2#6 (CONTROLLER), 2#8 (LIGHTING).
- 13 3"C, 3#1 (SERVICE). CONDUIT TO BE INSTALLED 30" BELOW GRADE.
- 14 3"C, 4#1 (SERVICE). CONDUIT SHALL BE INSTALLED 30" BELOW GRADE. CONTACT PG&E FOR SERVICE CONNECTION. TRENCH TO BE INSTALLED PER PG&E REQUIREMENTS.
- 15 CONSTRUCT 4' x 12' x 4" P.C.C. WALKWAY.

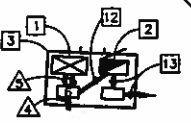


PROPOSED TRAFFIC PHASE DIAGRAM

EV(A) = #2+#5
 EV(B) = #4
 EV(C) = #6
 OLA = #4



DETAIL A
 5-SECTION SIGNAL HEAD
 NO SCALE



DETAIL B
 SCALE: 1" = 10'

TRAFFIC SIGNAL AND LIGHTING
 SCALE 1"=20'

LEGEND:
 → EMERGENCY VEHICLE PRE-EMPTION DETECTOR
 EV(A) EMERGENCY VEHICLE PRE-EMPTION (CHANNEL A)

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

	PREPARED UNDER THE SUPERVISION OF REGISTERED CIVIL ENGINEER DATE: 3/25/2010	DESIGNED M.R. CHECKED HDT DATE 03/20/10		EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION	GREEN VALLEY ROAD BRIDGE OVER TENNESSEE CREEK TRAFFIC SIGNAL PLAN	SHEET E-1 37 OF 61 77109
--	---	--	--	---	--	-----------------------------------

CONDUCTOR SCHEDULE			CONDUIT SIZE AND RUN NUMBER							
AWG SIZE OR CABLE TYPE	PHASE #	POLE OR CIRCUIT	NEW	NEW	NEW	NEW	NEW	NEW	NEW	
			△	△	△	△	△	△	△	
3/12 CONDUCTORS	PPB(#4P)	POLE (A)	1	1	1	1	1	1	1	
	PPB(#6P)	POLE (B)	1	1	1	1	1	1	1	
	PPB(#8P)	POLE (C)	1	1	1	1	1	1	1	
	PPB(#10P)	POLE (D)	1	1	1	1	1	1	1	
	PPB(#12P)	POLE (E)	1	1	1	1	1	1	1	
	PPB(#14P)	POLE (F)	1	1	1	1	1	1	1	
TOTAL CABLES 3/12 CONDUCTORS			1	1	2	3	3	4	6	6
#5	LIGHTING			2	2	2	2	2	2	
	SIGNAL NEUTRAL		1	1	1	1	1	1	1	
TOTAL #5 PER RUN			1	3	3	3	3	3	3	
#6	CONTROLLER SERVICE							2		
TYPE B DLC	2/2U				1	1	1			
	2/2L				1	1	1			
	2/4U/2/4L				2	2	2			
	4/6U		1	1	1	1	1			
	4/6L		1	1	1	1	1			
	4/8U/4/8L/4/7L		3	3	3	3	3			
	5/1U/5/1L				2	2	2			
	6/2U					1	1	1		
	6/2L					1	1	1		
	6/4U/6/4L/6/3L					3	3	3		
	Q10U					1	1	1		
	Q10L					1	1	1		
C10U		1	1	1	1	1				
C10L					1	1	1			
TOTAL DLCs PER RUN			6	6	13	20	20	7		
EMERGENCY VEHICLE PRE-EMPTION CABLE	EVA					1	1			
	EVB					1	1	1	1	
	EVC			1	1	1	1			
TOTAL EV CABLEs PER RUN				1	1	3	3	1	1	
CONDUIT SIZE			2.5"	3"	4"	2-4"	2-4"	3"	2"	
% FILL			23	24	24	21	21	22	23	

POLE AND EQUIPMENT SCHEDULE										
NO.	STANDARD		VEHICLE SIGNAL MOUNTING		PEDESTRIAN SIGNAL MOUNTING	PPB #	HPS LUMINAIRE (WATTS)	LOCATION		REMARKS *
	TYPE	SIG. MA (FT)	LUM. MA (FT)	MAST ARM				POLE	STATION	
A	19-3-100	30	15	MAS	SV-1-T	4P	250	15+75.7	41.9' L	INSTALL R3-1B SIGN AND EV(C) ⁺ ON SMA. INSTALL D3-1 SIGN ON SIGNAL STANDARD.
B	1-8				TV-1-T	6P		15+81.2	46.9' L	
C	TYPE 15 TS		15		SV-1-T	6P	250	16+77.2	51.3' L	INSTALL EV(B) ⁺ ON SIGNAL STANDARD AT 17' ABOVE GRADE. INSTALL R9-3a AND R9-3b(Lt) SIGNS ON SIGNAL STANDARD.
D	1-8				TV-2-T			18+83.9	48.3' L	
E	19-4-100	30	15	MAS MAS	SV-2-TB		250	16+76.3	30.0' R	INSTALL R73-3(CA) SIGN AND EV(A) ⁺ ON SMA. INSTALL D3-1, R9-3a AND R9-3b(Rt) SIGNS ON SIGNAL STANDARD.
F	18-3-100	30		MAS	SV-2-TA	4P		15+84.2	30.9' R	INSTALL R3-4 SIGN ON SMA. INSTALL D3-1 SIGN ON SIGNAL STANDARD.

- * OTHER REQUIREMENTS ARE COVERED BY NOTES, LEGEND, SPECIAL PROVISIONS AND STANDARD SPECIFICATIONS. FOR TYPE OF STANDARD AND VEHICLE SIGNAL MOUNTING, SEE STANDARD PLANS.
- + EMERGENCY VEHICLE PRE-EMPTION EQUIPMENT SHALL BE COUNTY-FURNISHED.

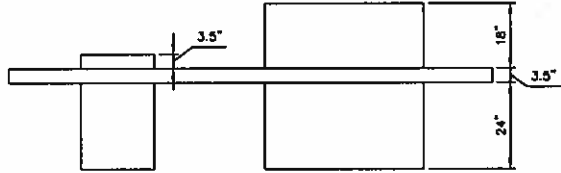
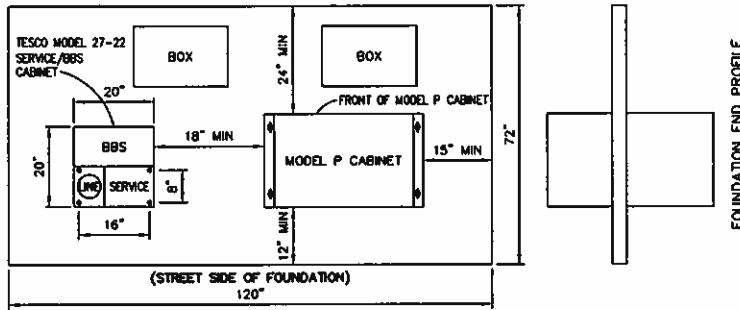
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

CONDUCTOR, POLE AND EQUIPMENT SCHEDULE
NO SCALE

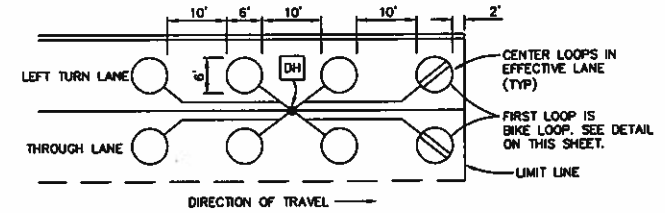
	PREPARED UNDER THE SUPERVISION OF 	DESIGNED S.A. DATE 03/2010		EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION	GREEN VALLEY ROAD BRIDGE OVER TENNESSEE CREEK TRAFFIC SIGNAL PLAN	SHEET E-2 38 OF 61 77109
	REGISTERED CIVIL ENGINEER DATE 3/29/2010	ROAD NUMBER 000				

IN ADDITION TO MEETING ALL CURRENT CALTRANS SPECIFICATIONS, THE FOUNDATION FOR THE ELECTRICAL SYSTEMS CONTROLLER CABINET SHALL MEET THE FOLLOWING EL DORADO COUNTY SPECIAL PROVISIONS:

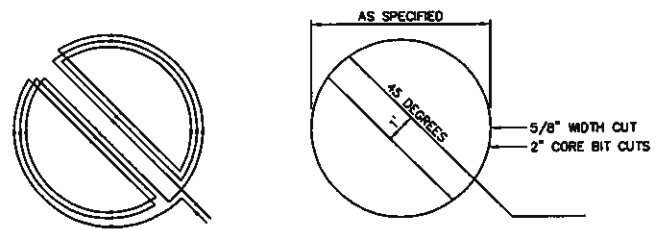
- SERVICE SHALL CONSIST OF A TESCO 27-22 TYPE III-AF/BBS COMBO.
- ELECTRICAL PULL BOXES SHALL NOT BE LOCATED IN PEDESTRIAN TRAVELWAY (SIDEWALK).
- CABINET DOORS SHALL NOT PROTRUDE INTO PEDESTRIAN TRAVELWAY (SIDEWALK) WHEN OPEN.
- IN NO CASE SHALL THE SIGNAL CABINET, BATTERY BACKUP CABINET OR SERVICE CABINET BE LESS THAN FOUR (4) FEET FROM THE EDGE OF PAVEMENT OR TOP BACK OF CURB, WHICH EVER IS GREATER.



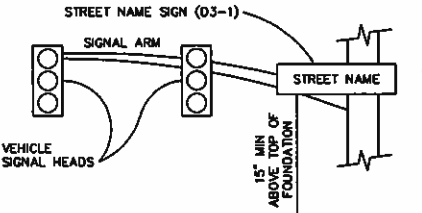
FOUNDATION SIDE PROFILE
TYPICAL SIGNAL CONTROLLER PAD
MODEL P CABINET W/18" RISER
 NO SCALE



TYPICAL DETECTOR LOOP LAYOUT
 NO SCALE

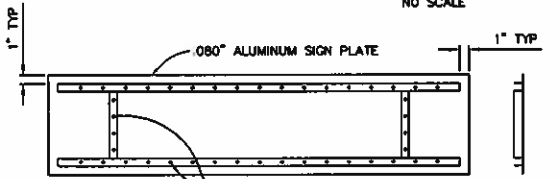


TYPE E BIKE LOOP DETAIL
 NO SCALE

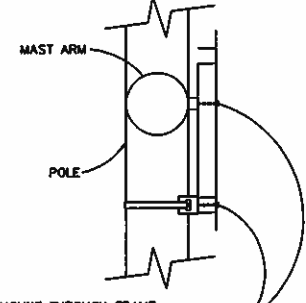


STREET NAME SIGN MOUNTING DETAIL
 NO SCALE

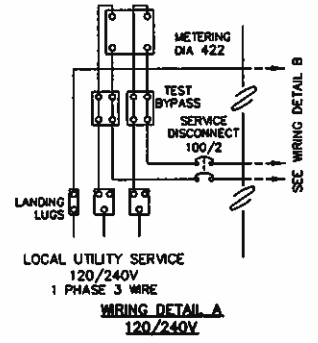
- NOTES:
- ALL HANGER COMPONENTS TO BE GALVANIZED, EXCEPT STAINLESS STEEL BANDS.
 - ATTACH SIGN TO POLE AND SIGNAL MAST ARM VIA SADDLE BRACKETS.
 - SEE SHEET E-1 FOR MESSAGE.
 - SEE SPECIAL PROVISIONS FOR SIGN SPECIFICATIONS.



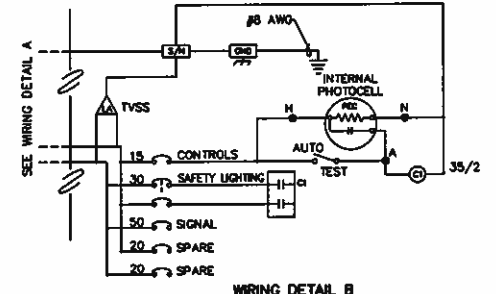
SIGN FRAME/RIVET DETAIL
 NO SCALE



SIGN MOUNTING DETAIL
 NO SCALE



WIRING DETAIL A
 120/240V



TRANSIENT VOLTAGE SURGE SUPPRESSION (TVSS) SERVICE EQUIPMENT WIRING DIAGRAM
 NO SCALE

TRAFFIC SIGNAL INSTALLATION CONSTRUCTION DETAILS
 NO SCALE

FOR REDUCED PLANS 0 1 2 ORIGINAL SCALE IS IN INCHES



DESIGNED BY: S. DANIEL W. DATE: 03/28/2010
 CHECKED BY: DATE: 03/20/2010
 PREPARED UNDER THE SUPERVISION OF: DATE: 03/28/2010

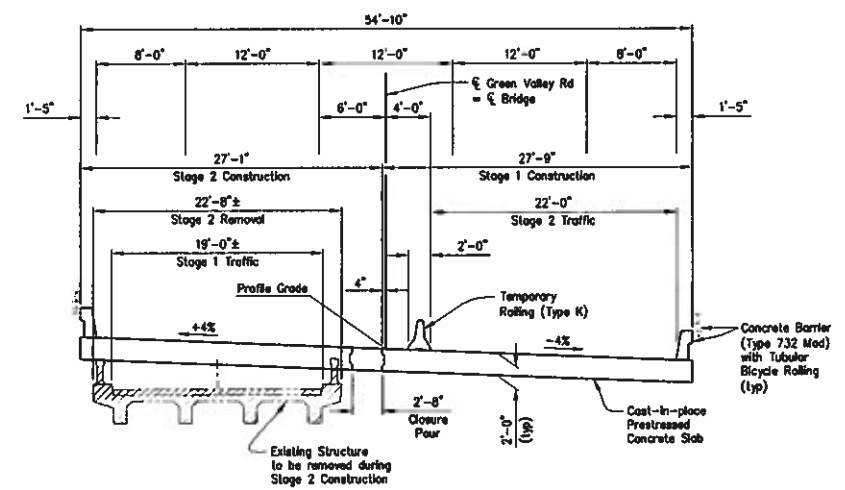
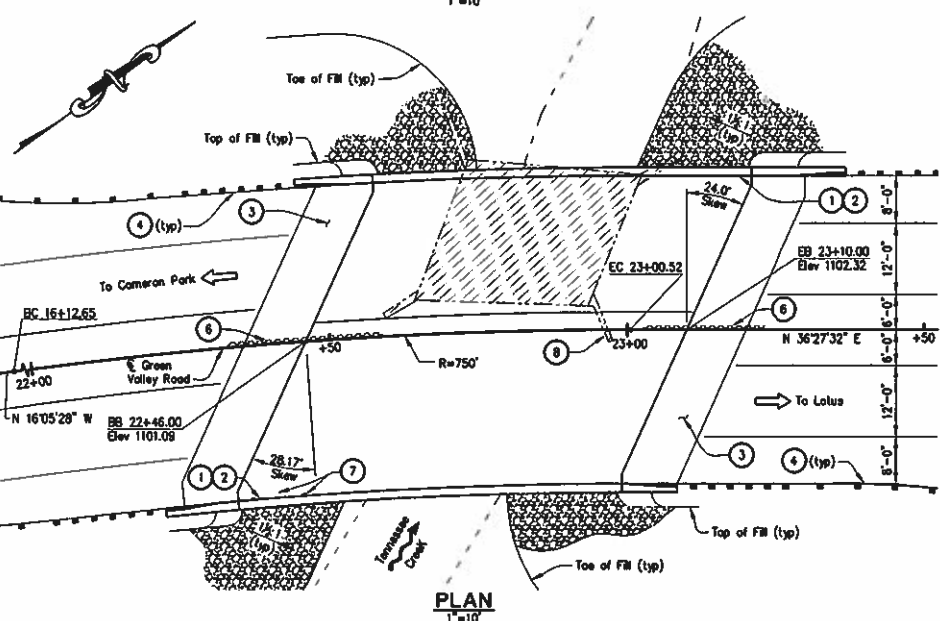
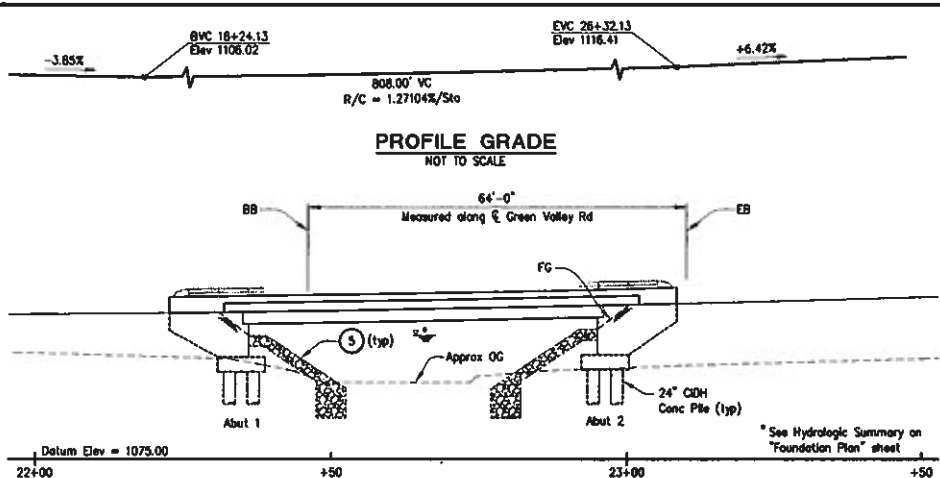


EL DORADO COUNTY
 DEPARTMENT OF TRANSPORTATION

GREEN VALLEY ROAD BRIDGE OVER TENNESSEE CREEK TRAFFIC SIGNAL PLAN

SHEET E-3
 39 OF 61
 77109

ORIGINAL SCALE IS IN INCHES
 FOR REDUCED PLANS
 DRAWING NAME: C:\GIS\3D Projects\7108 Tennessee Creek\AAD Files\Sheets S-1.dwg Layout: Tab S-1 May 20, 2010 - 5:38pm Abnashop



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

NOTES:

- ① Point "Green Valley Road Bridge"
 - ② Point "Br No. 25C0038"
 - ③ Structure Approach Slab Type EQ (10)
 - ④ MBGR, see "Road Plans"
 - ⑤ RSP, see "Rock Slope Protection" sheet
 - ⑥ Approximate limits of temporary shoring
 - ⑦ Deck Drain Type "B" 26'-0" Rt @ Sta 22+36.00 & Sta 22+45.00, see "Deck Contours" sheet.
 - ⑧ Remove top portion of wingwall as necessary to facilitate Stage 1 Construction
- For General Notes, see "Deck Contours" sheet.

LEGEND:

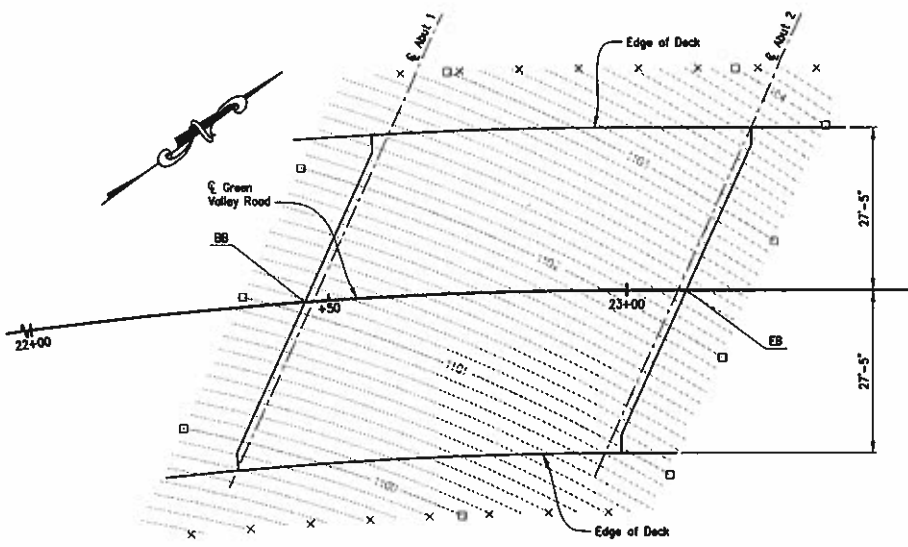
- Indicates Bridge Removal
- Indicates New Structure
- Indicates Existing Structure
- Indicates Direction of Traffic
- Indicates Direction of Water Flow

CURVE DATA
 R = 750'
 Δ = 52°32'56"
 T = 370.26'
 L = 687.87'

DESIGNED BY S.M.	CHECKED BY A.C.	DATE 11/08/09	PROJECT NUMBER 2300038
PREPARED UNDER THE SUPERVISION OF  SHAWN J. HANZ No. C 52234 Exp. 08/28/18 CIVIL REGISTERED CIVIL ENGINEER		DATE 5/20/10	

	EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION	GREEN VALLEY ROAD AT TENNESSEE CREEK BRIDGE RECONSTRUCTION PROJECT GENERAL PLAN	SHEET S-1 40 OF 61 77109
	10-0299.B.40		

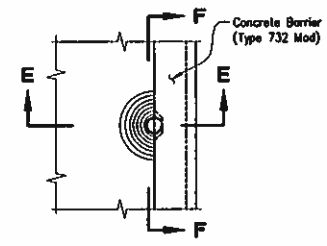
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 TOP REDUCED PLANS



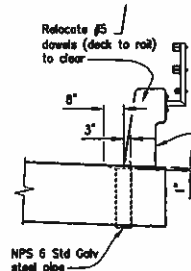
DECK CONTOURS
1"=10'

NOTES:
 □ - INDICATES EVEN FOOT CONTOURS
 x = 10' INTERVALS ALONG STATION LINE
 CONTOURS DO NOT INCLUDE CAMBER
 CONTOUR INTERVALS = 0.10'

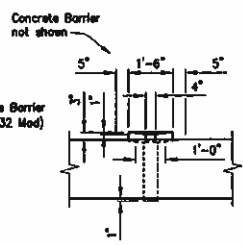
NOTE: THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL OR PERFORMING STRUCTURE EXCAVATION.



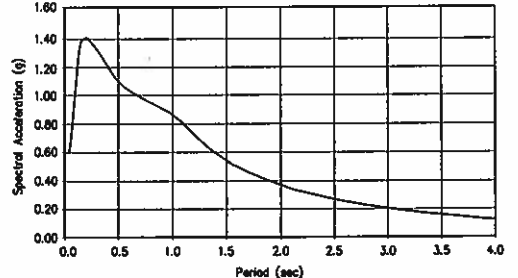
DECK DRAIN TYPE "B"
1/2"=1'-0"



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



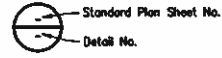
SECTION F-F
1/2"=1'-0"



ACCELERATION RESPONSE SPECTRA
No Scale

CALTRANS STANDARD PLANS DATED MAY 2006

- A10A Acronyms and Abbreviations
- A10B Acronyms and Abbreviations
- A10C Symbols
- A10D Symbols
- A62C Limits of Payment For Excavation and Backfill Bridge
- B0-1 Bridge Details
- B0-5 Bridge Details
- B0-13 Bridge Details
- B2-3 16" and 24" Cast-in-Drilled-Hole Concrete Pile
- RSP B6-21 Joint Seals
- B11-55 Concrete Barrier Type 732
- T3 Temporary Railing (Type K)



CONCRETE STRENGTH AND TYPE LIMITS
No Scale

- Structural Concrete, Bridge (5,000 psi @ 28 Days)
- Structural Concrete, Bridge
- Structural Concrete, Bridge Footing
- Cast-in-Drilled Hole Concrete Piling (4,000 psi @ 28 Days)

GENERAL NOTES
LOAD FACTOR DESIGN

DESIGN: Caltrans Bridge Design Specifications April 2000 (LFD) (1996 AASHTO with Interims and Revisions by CALTRANS)

SEISMIC DESIGN: CALTRANS Seismic Design Criteria (SDC), Version 1.4 June 2006

DEAD LOAD: Includes 35 psf for future wearing surface.

LIVE LOADING: HS20-44 and alternate and permit design loading.

PRESTRESSED CONCRETE: See Prestressing Notes on "Slab and Prestressing Details" sheet

REINFORCED CONCRETE:
 $f_y = 60$ ksi
 $f'_c = 3.6$ ksi
 $n = 8$

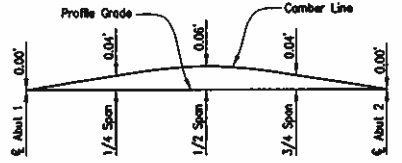
SEISMIC LOADING: Site Specific ARS Curve, PBA = 0.6g

FALSEWORK RELEASE FOR STAGE 2 CONSTRUCTION:

ALTERNATIVE 1:
 Falsework shall be released as soon as permitted by the specifications. Closure pour shall not be placed sooner than 60 days after the falsework has been released.

ALTERNATIVE 2:
 Falsework shall not be released less than 28 days after the last concrete has been placed. Closure pour shall not be placed sooner than 14 days after the falsework has been released.

When Falsework Release Alternate 2 is used, camber values are 0.75 times those shown.



CAMBER DIAGRAM
No Scale

Note: Camber Diagram does not include allowances for falsework deflection or settlement.

REVISION	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF
 REGISTERED CIVIL ENGINEER
 DATE: 5/20/10
 ROAD NUMBER: 250038

DESIGNED: S.H. A.C.
 DRAWN: A.C.
 CHECKED: A.C.
 DATE: 11/08/08

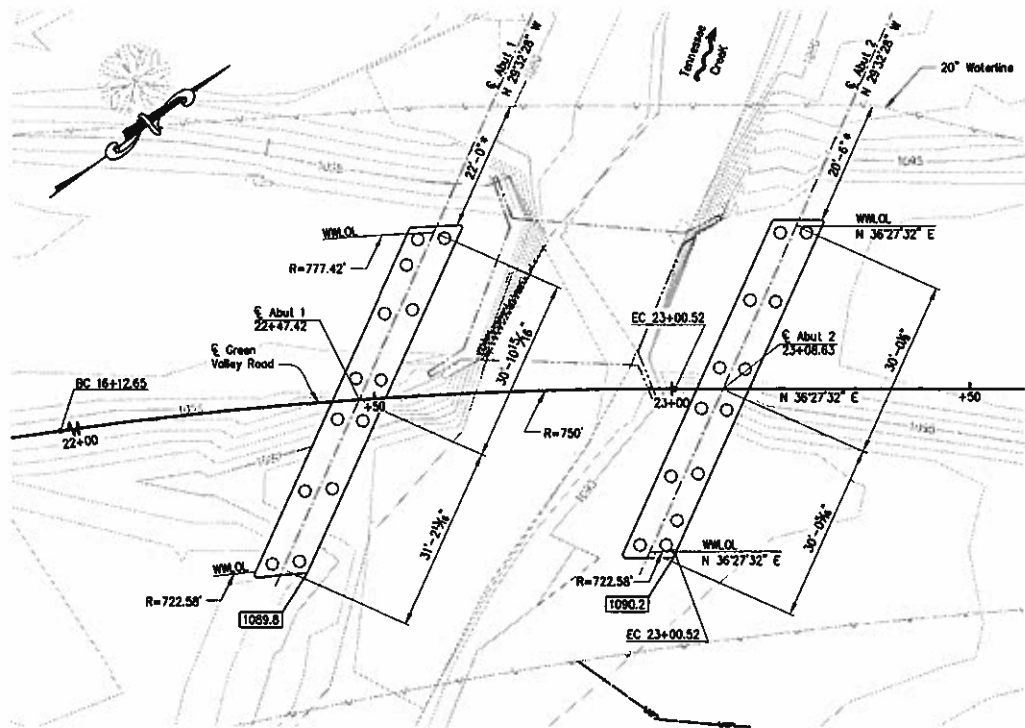


EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

GREEN VALLEY ROAD AT TENNESSEE CREEK BRIDGE RECONSTRUCTION PROJECT
DECK CONTOURS

SHEET
S-2
41 of 81
77109

Drawing name: C:\G:\3D Projects\77109 Tennessee Creek\CADD Files\Sheets\S-3.dwg Layout Tab S-3 May 20, 2010 - 5:42pm Abishop
 ORIGINAL SCALE IS IN INCHES
 FOR REDUCED PLANS
 2
 1
 0



* Indicates approximate horizontal distances from Footing to existing 20' Waterline, as obtained from potholing and interpolation.

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

BENCH MARK:
See "Roadway Plans".

HYDROLOGIC SUMMARY

Drainage Area = 4.5 Sq. mi.

	Design Flood	Base Flood	Overtopping Flood	Flood of Record
Frequency (Years)	50	100	>100	N/A
Discharge (Cubic-FT/Sec)	1300	1700	>1700	N/A
Water Surface (Elevation @ Bridge (ft))	1094.77	1095.95	>1095.95	N/A

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

PLAN
1"=10'

PILE DATA TABLE

Location	Pile Type	Design Loading (Service)(kips)		Nominal Resistance (kips)		Design Tip Elev (ft)			Specified Tip Elev (ft)		
		Compression	Tension	Compression	Tension	(1)	(2)	(3)	(1)	(2)	(3)
Abut 1	24" x 24" CDH	N/A	0	400	0	1065.00 (1);	1065.00 (3)	1065.00			
Abut 2	24" x 24" CDH	N/A	0	400	0	1060.00 (1);	1060.00 (3)	1060.00			

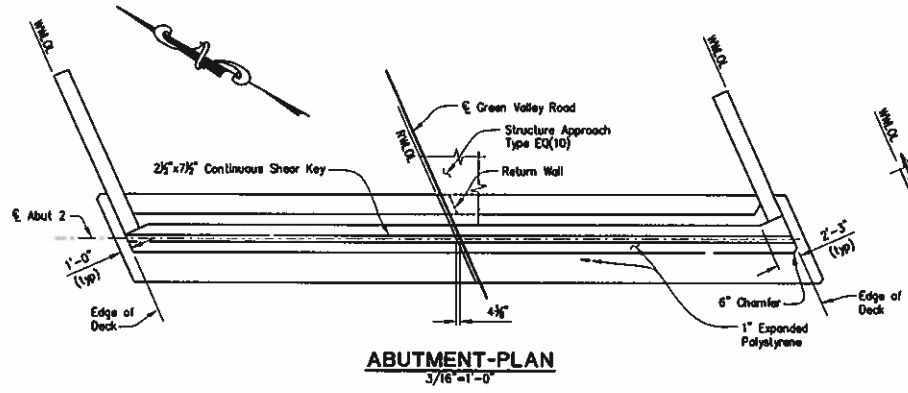
Note: Design Tip Elevation controlled by the following demands:
(1) Compression, (2) Tension, (3) Lateral Load.

LEGEND:

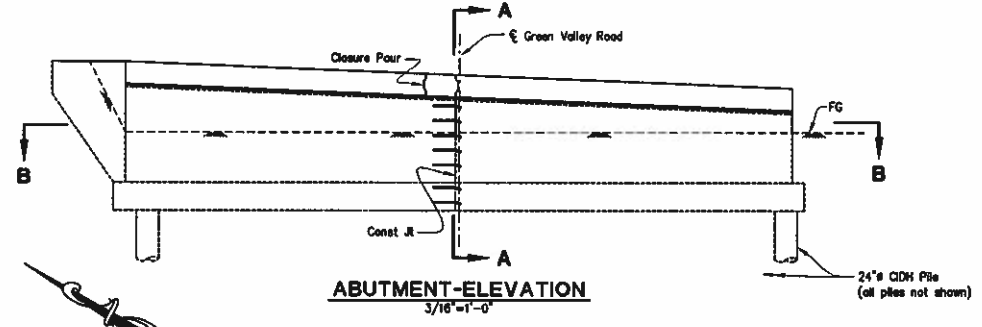
- Indicates New Structure
- - - Indicates Existing Structure
- Indicates 24" x 24" CDH Piles
- Indicates bottom of footing elevation
- Indicates Direction of Water Flow

PREPARED UNDER THE SUPERVISION OF  REGISTERED CIVIL ENGINEER DATE: 5/20/10	DESIGNED BY: A.C. CHECKED BY: J.E. DATE: 11/09/09 PWD NUMBER: 2500038	 EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION	GREEN VALLEY ROAD AT TENNESSEE CREEK BRIDGE RECONSTRUCTION PROJECT FOUNDATION PLAN	SHEET S-3 42 OF 61 77109
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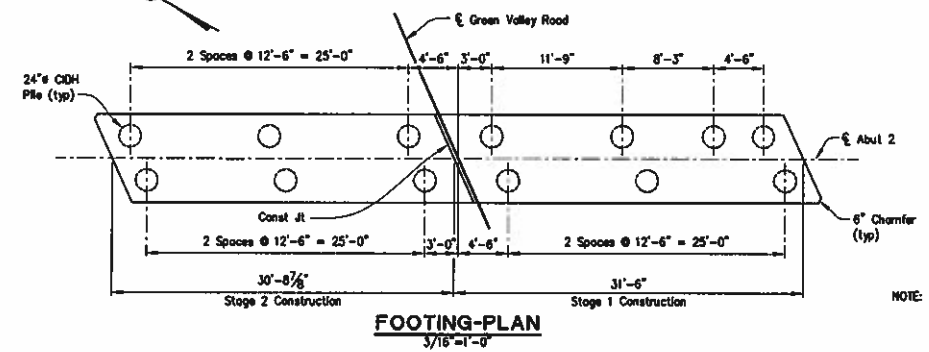
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 ORIGINAL SCALE IS IN INCHES
 FOR REDUCED PLANS
 2
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ABUTMENT-PLAN
3/16"=1'-0"

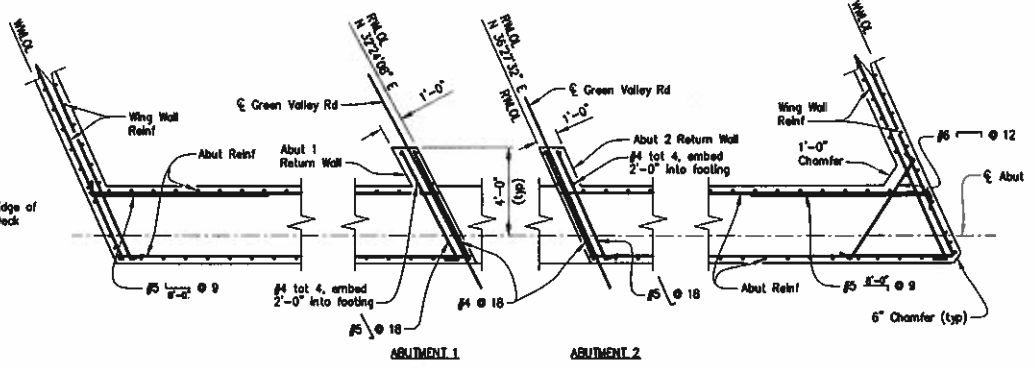


ABUTMENT-ELEVATION
3/16"=1'-0"



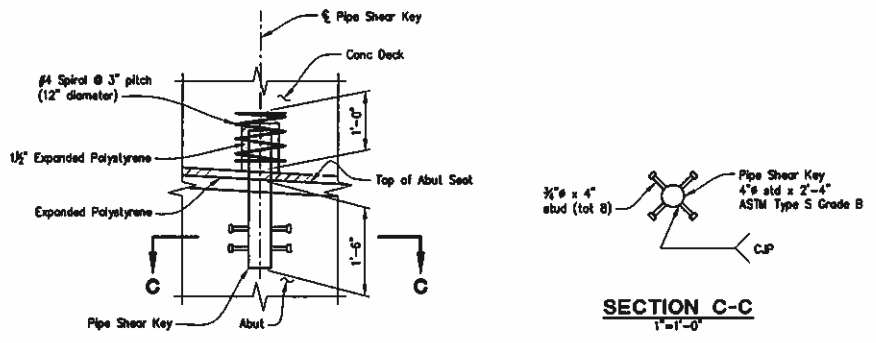
FOOTING-PLAN
3/16"=1'-0"

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



SECTION B-B
3/8"=1'-0"

Note: Stage 1 Construction shown, Stage 2 Construction similar but without return walls.



DETAIL 1
1"=1'-0"

NOTE:
1. For Section A-A, see "Abutment 1 Layout" sheet.

REVISION	DATE	DESCRIPTION



PREPARED UNDER THE SUPERVISION OF:
 REGISTERED CIVIL ENGINEER
 DATE: 5/20/10

DESIGNED: SML
 CHECKED: J.C.
 DATE: 11/06/09
 DRAW NUMBER: 2500039

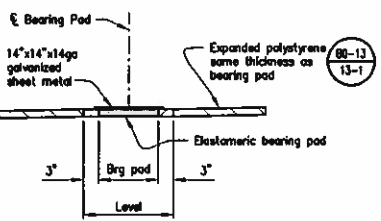
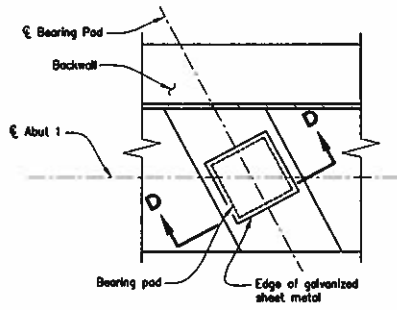


EL DORADO COUNTY
 DEPARTMENT OF TRANSPORTATION

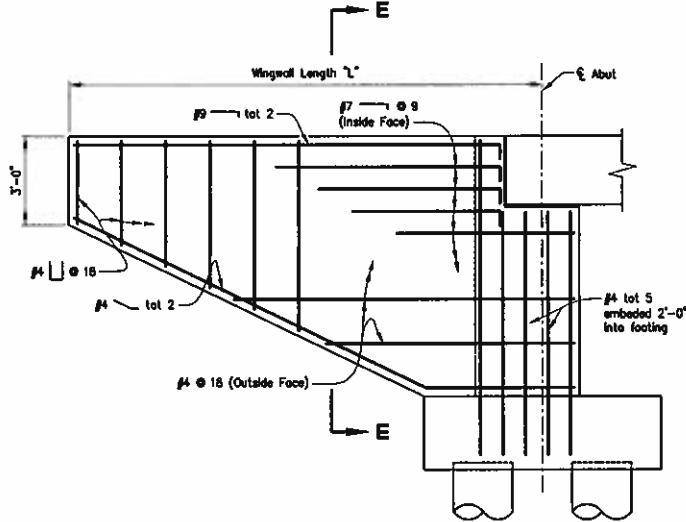
GREEN VALLEY ROAD AT TENNESSEE CREEK BRIDGE RECONSTRUCTION PROJECT
ABUTMENT 2 LAYOUT

SHEET
 S-5
 44 OF 61
 77109

Drawing name: C:\proj\30 Projects\3108 Tennessee Creek\UGRD First Sheets\5-6.dwg Layout Tab: 5-6 May 20, 2010 - 5:55pm Abut1.dwg
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 FOR REDUCED PLANS
 REVISIONS

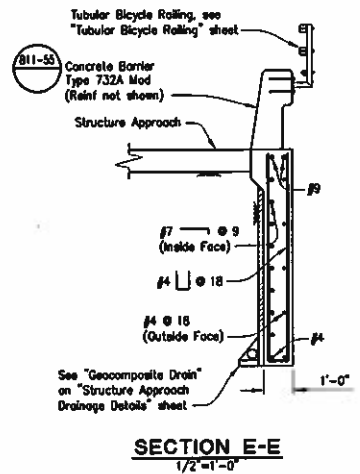


BEARING PAD DETAIL
1"=1'-0"

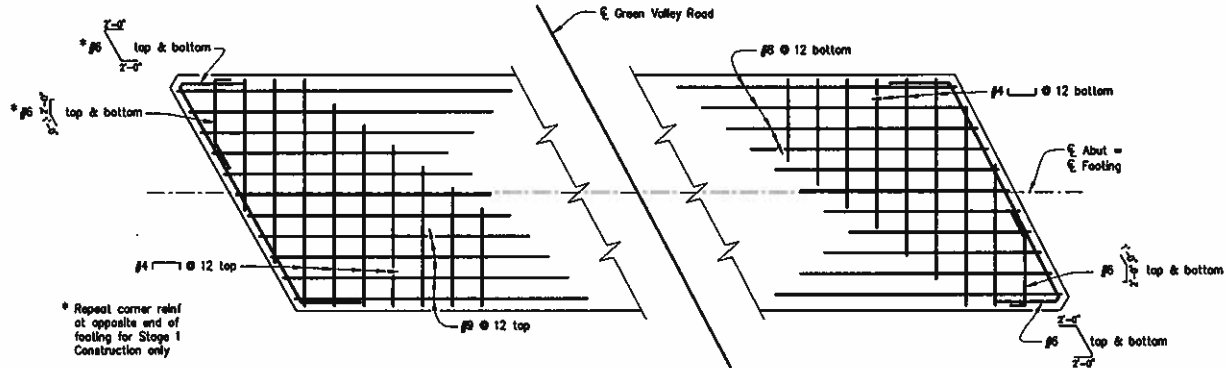


WINGWALL ELEVATION
1/2"=1'-0"

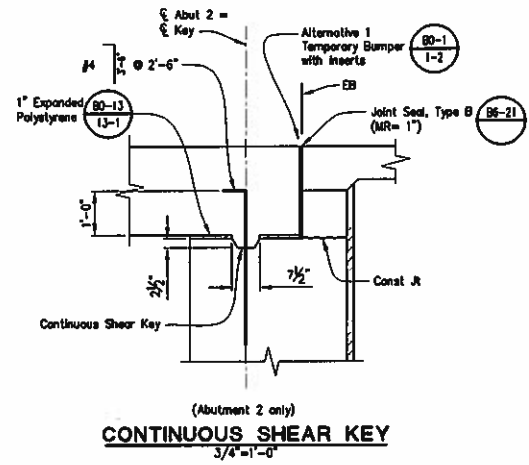
Location	L'
Abut 1 Lt	16'-0"
Abut 1 Rt	12'-0"
Abut 2 Lt	16'-0"
Abut 2 Rt	12'-0"



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



FOOTING REINFORCEMENT
1/2"=1'-0"



CONTINUOUS SHEAR KEY
3/4"=1'-0"



PREPARED UNDER THE SUPERVISION OF
 REGISTERED CIVIL ENGINEER
 DATE: 5/20/10

DESIGNED: S.H. A.C.
 CHECKED: J.G. DATE: 11/08/09
 ROAD NUMBER: 2200038



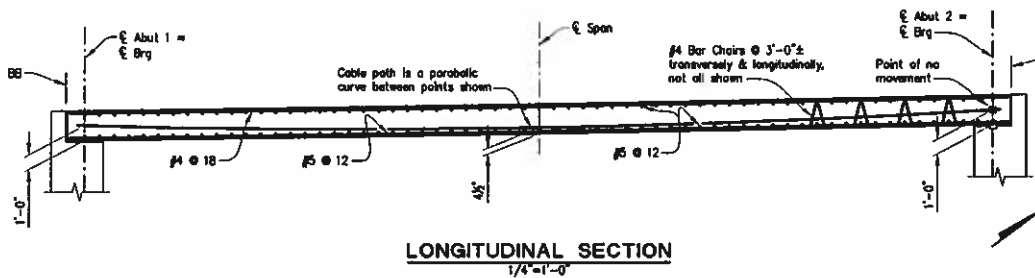
EL DORADO COUNTY
 DEPARTMENT OF TRANSPORTATION

GREEN VALLEY ROAD AT TENNESSEE
CREEK BRIDGE RECONSTRUCTION PROJECT
ABUTMENT DETAILS

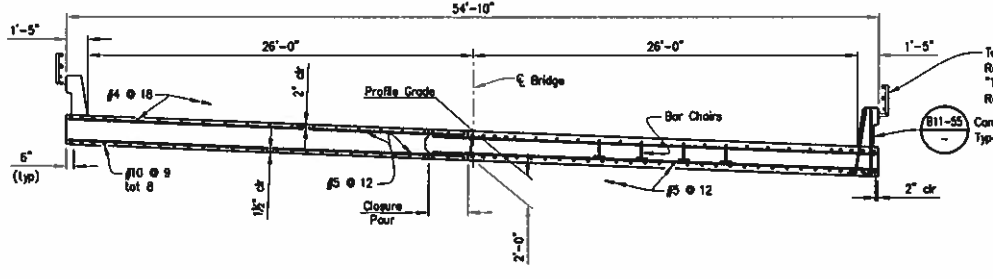
SHEET
S-6
 45 of 61
 77109

10-0299.B.45

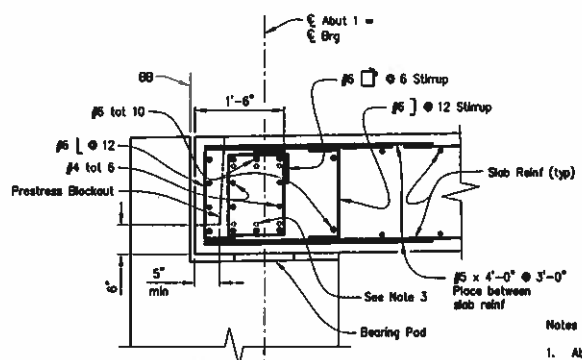
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 FOR REDUCED PLANS
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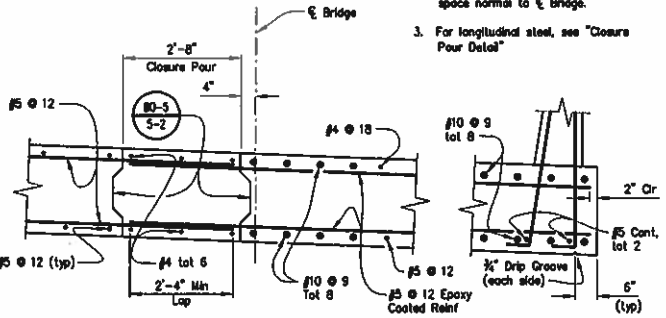
LONGITUDINAL SECTION
1/4"=1'-0"



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



END DIAPHRAGM DETAIL
1"=1'-0"



CLOSURE POUR DETAIL

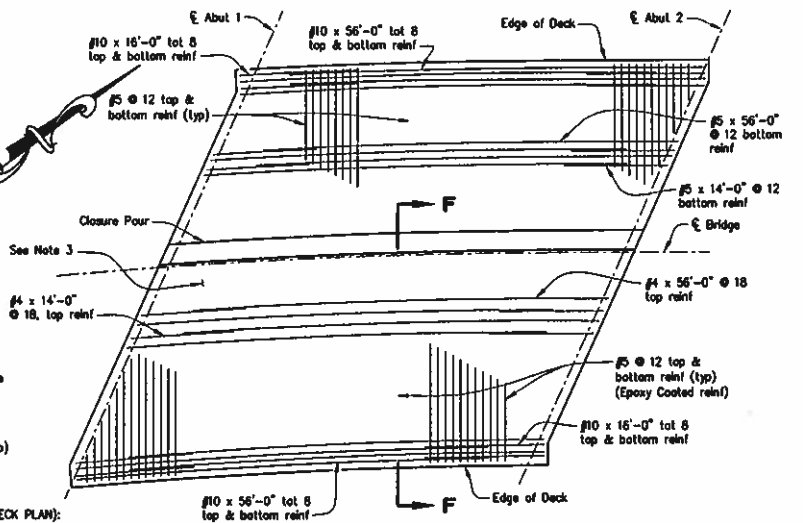
EDGE OF SLAB DETAIL

Notes (END DIAPHRAGM DETAIL):

1. Abutment 1 shown, Abutment 2 similar.
2. Stirrups can be adjusted to clear prestress anchorage. Place longitudinally and space normal to \bar{E} Bridge.
3. Provide #5 @ 6 tot 3 in diaphragm at all edges of slab. Place transversely and space along \bar{E} Bridge.

SECTION F-F
3/4"=1'-0"

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



DECK PLAN
1/8"=1'-0"

Notes (DECK PLAN):

1. Reinforcement at End Diaphragm not shown.
2. Place longitudinal steel parallel and space normal to \bar{E} Bridge.
3. For longitudinal steel, see "Closure Pour Detail"

PRESTRESSING NOTES

270 ksi Low Relaxation Strand
 Tendons to be stressed to 74.6% of f_s
 Design based on $\mu = 0.15$
 $K = 0.0002/R$ and provision for 20 ksi long term loss
 $P_{jock} = 7330$ kips (Stage 1)
 6500 kips (Stage 2, except closure pour)
 Anchor set = $3/8"$
 Prestress force (P_{jock}) shall be uniformly distributed across the slab, except that the tendon spacing shall be reduced by 25% within 3' on either side of closure pour.
 Concrete $f_c = 5,000$ psi @ 28 days
 $f_{cl} = 3,500$ psi
 Contractor shall submit elongation calculations based on initial stress at
 $\square = 0.938$ x jacking stress (both sides)
 One end stressing shall be performed from Abut 1 and only
 Horizontal clear spacing between prestress ducts shall not exceed 18" max or be less than 6" min. Minimum edge distance shall be 9". Edge distance of bearing plates shall be $1 \frac{1}{2}"$ min.
 At no time during stressing operations will more than $1/3$ of total prestressing force be applied eccentrically about the centerline of the structure, including separately during each stage of construction.

BAR CHAIR DETAIL
1"=1'-0"

REVISION	DATE	BY	CHKD

PREPARED UNDER THE SUPERVISION OF

SARAFAT HAD
 No. C 52734
 Exp. 06/30/10
 CIVIL

REGISTERED CIVIL ENGINEER

5/20/10

DESIGNED: S.M. CALLEN
 CHECKED: A.C.
 DATE: 11/08/09

PROJECT NUMBER: 2500030

EL DORADO COUNTY
 DEPARTMENT OF TRANSPORTATION

GREEN VALLEY ROAD AT TENNESSEE CREEK BRIDGE RECONSTRUCTION PROJECT

SLAB AND PRESTRESSING DETAILS

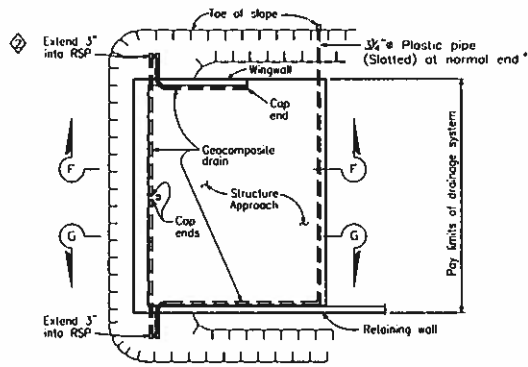
SHEET S-7
 48 OF 61
 77109

DIST.	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	ED					

REGISTERED ENGINEER - CIVIL	
5/20/10 DATE	

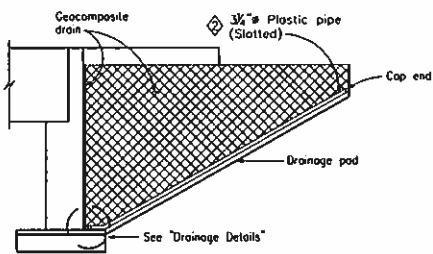
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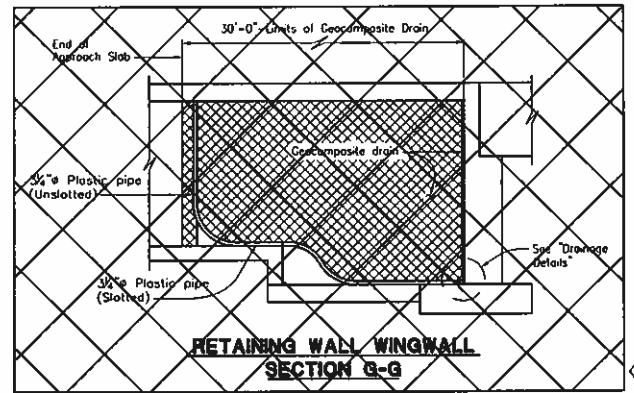


TYPICAL PLAN

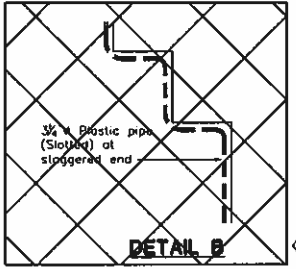
* For pipe layout at staggered end, see 'Detail B'.



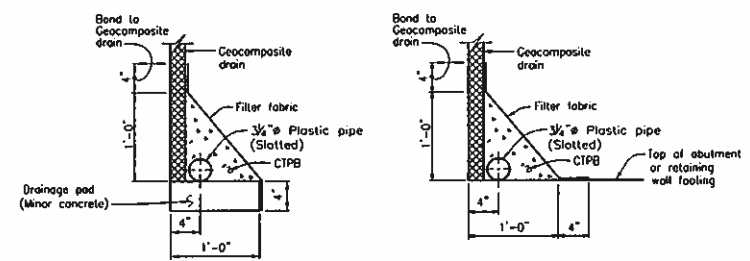
CANTILEVER WINGWALL SECTION F-F



RETAINING WALL WINGWALL SECTION G-G



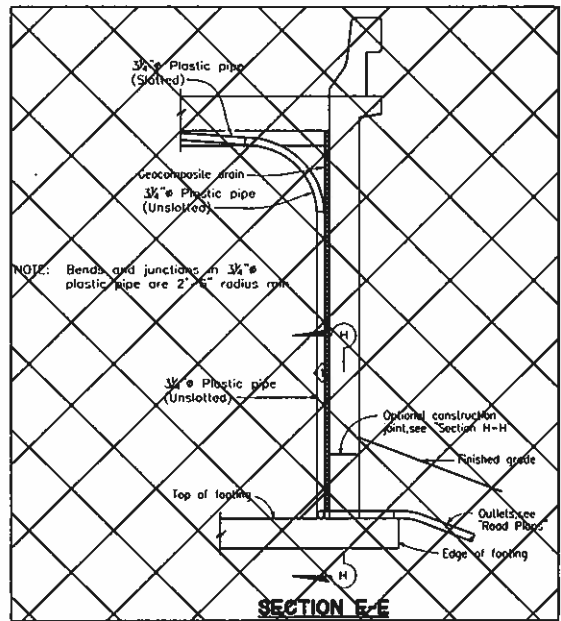
DETAIL B



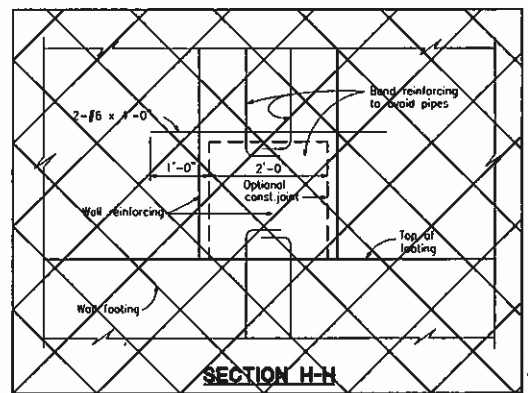
WITHOUT FOOTING

WITH FOOTING

DRAINAGE DETAILS



SECTION E-E



SECTION H-H

STANDARD DRAWING				NO SCALE		SPECIAL DETAILS		S-8	
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FILE NO: xs3-110e	DETAILS: BY E. TRAPPALDI	DESIGNED: Z. THORNTON	DATE: 4/98	POST MILE:	STRUCTURE APPROACH DRAINAGE DETAILS				
DESIGNED BY: [Signature]	APPROVED BY: [Signature]	DATE: 4/98	OFFICE: [Signature]	CONTRACT NO.:	SHEET NO. 47 OF 61				

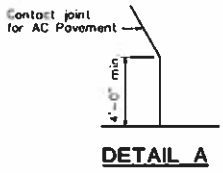
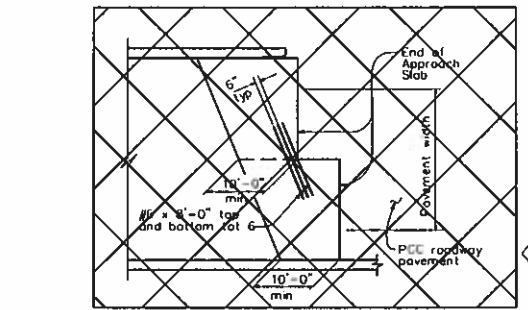
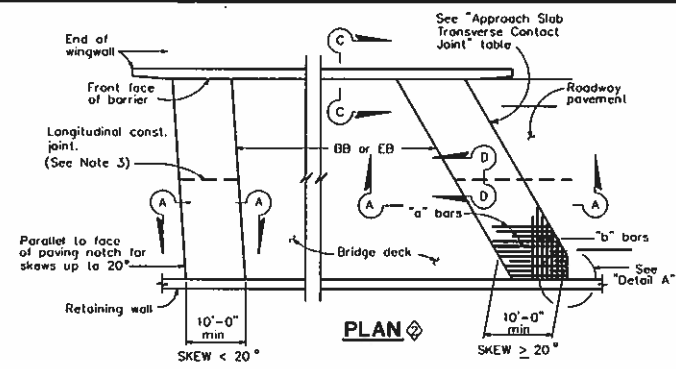
GRAPHICAL SCALE IN METERS FOR REDUCED PLANS

CU EA
 USER: [Signature]
 10-0299.B.47

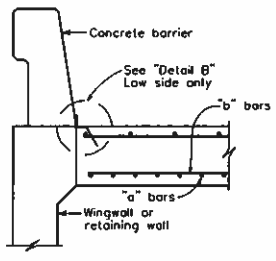
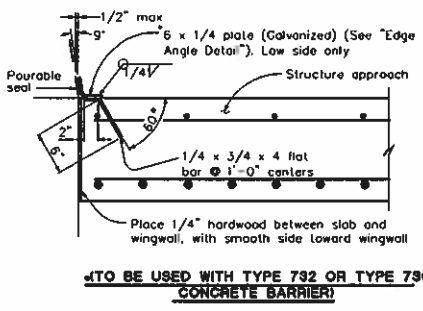
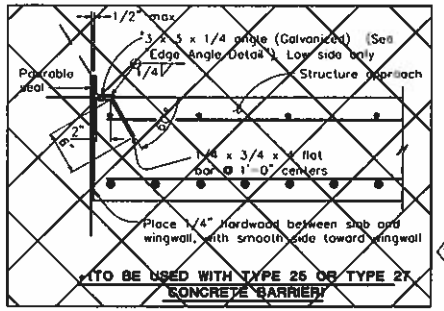
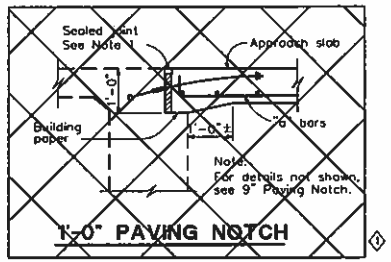
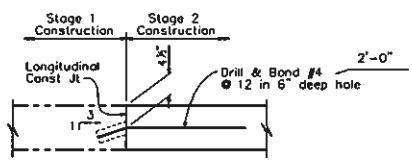
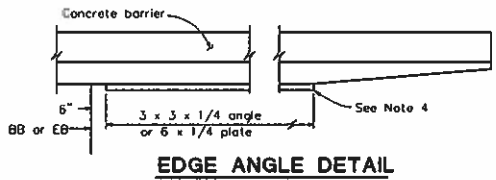
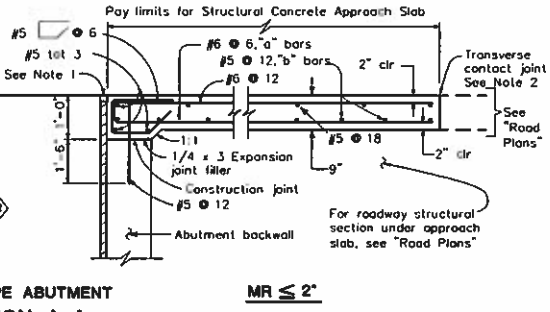
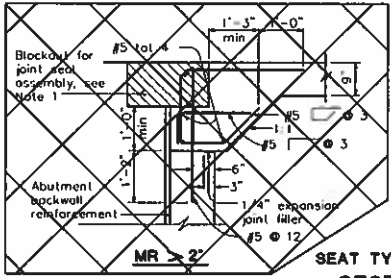
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DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
03	ED					

REGISTERED ENGINEER	CIVIL
5/20/10	
PLANS APPROVAL DATE	
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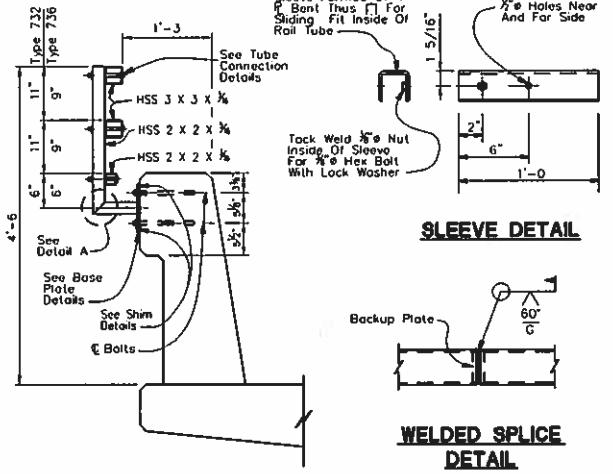
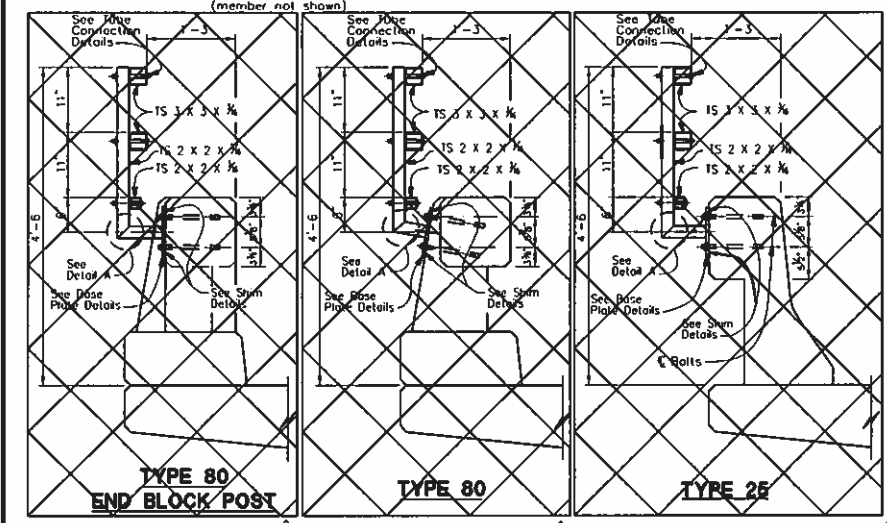
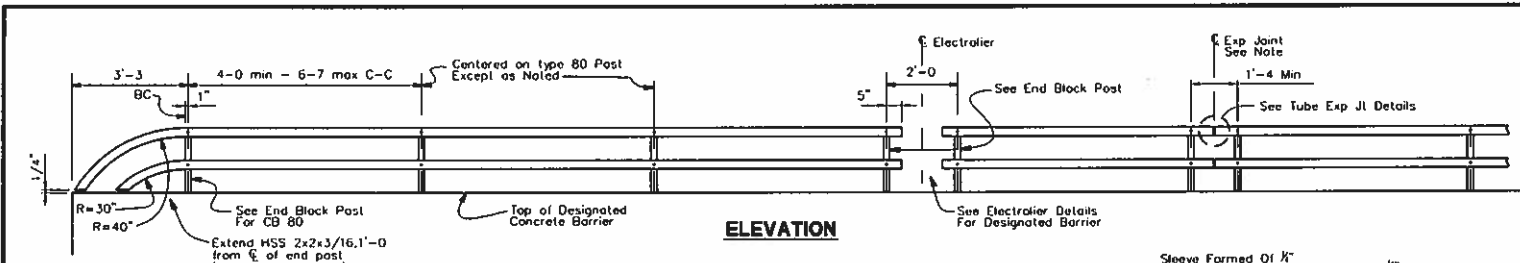
APPROACH SLAB TRANSVERSE CONTACT JOINT		
STRUCTURE SKEW	AC APPROACH PAVEMENT	PCC APPROACH PAVEMENT
< 20°	Parallel to face of paving notch	Parallel to face of paving notch
20° - 45°	Parallel to face of P/N use (Detail A)	Stagger lines 2' - 0" to 3' - 0" apart
> 45°	Parallel to face of P/N use (Detail A)	Stagger at each lane line



- NOTES:**
- For details not noted or shown, see Structure Plans. Adjust bar reinforcement to clear a sawcut for sealed joint when required.
 - For transverse contact joint with new PCC paving, refer to Standard Plan P10.
 - Longitudinal construction joints, when permitted by the Engineer, shall be located on lane lines, except as shown (Section D-D).
 - End angle or plate at beginning of barrier transition, end of wing wall or end of structure approach as applicable.
 - At the contractor's option, approach slab transverse reinforcement may be placed parallel to paving notch. Spacing of transverse reinforcement is measured along the roadway.
 - For drainage details, see sheet S-8.

STANDARD DRAWING				NO SCALE		SPECIAL DETAILS		S-9
RELEASE DATE: 3/14/05	DESIGN BY: R. TRUFFALO	CHECKED BY: E. TRINICK/LSH	APPROVED BY: [Signature]	DESIGN NO: 25C0038	GREEN VALLEY ROAD AT TENNESSEE CREEK BRIDGE RECONSTRUCTION PROJECT			
FILE NO: x53-150e	DETAILS BY: E. TRUFFALO	CHECKED BY: E. TRINICK/LSH	APPROVED BY: [Signature]	POST TITLE:	STRUCTURE APPROACH TYPE EG1101			
Deleted Detail Deleted Detail Revised Detail Revised Note Detail Added Revised Note				STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		DIVISION OF ENGINEERING SERVICES		
ORIGINAL SCALE IS INDICATED FOR REPRODUCED PLANS 0 10 20 30 40 50 60 70 80 90 100				CU		CHECKED AND POSTED BY: [Signature] DATE: [Date]		SHEETS: 27 48 61

10-0299.B.48



DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST NO.	SHEET NO.	TOTAL SHEETS
03	ED					

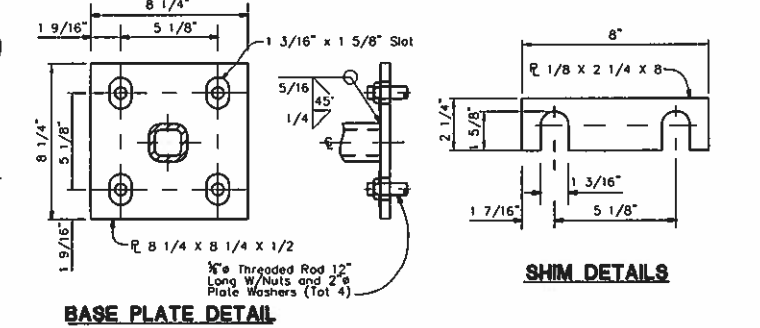
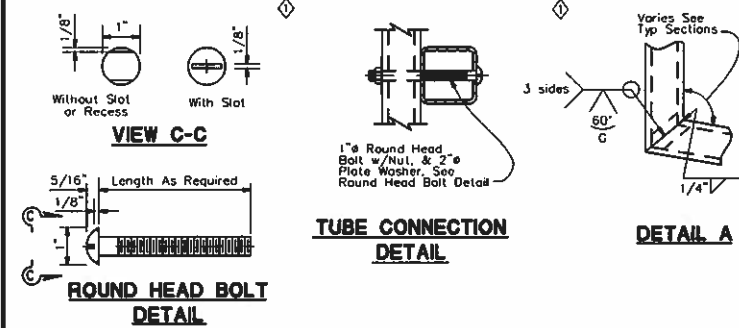
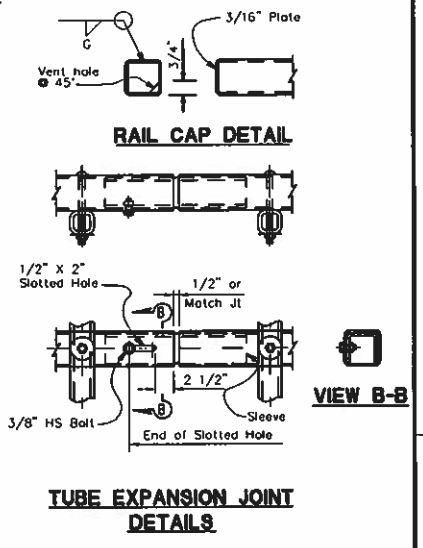
REGISTERED ENGINEER - CIVIL

5/20/10

PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
 MICHAEL J. WEAVER
 E. 52726
 CIVIL
 STATE OF CALIFORNIA

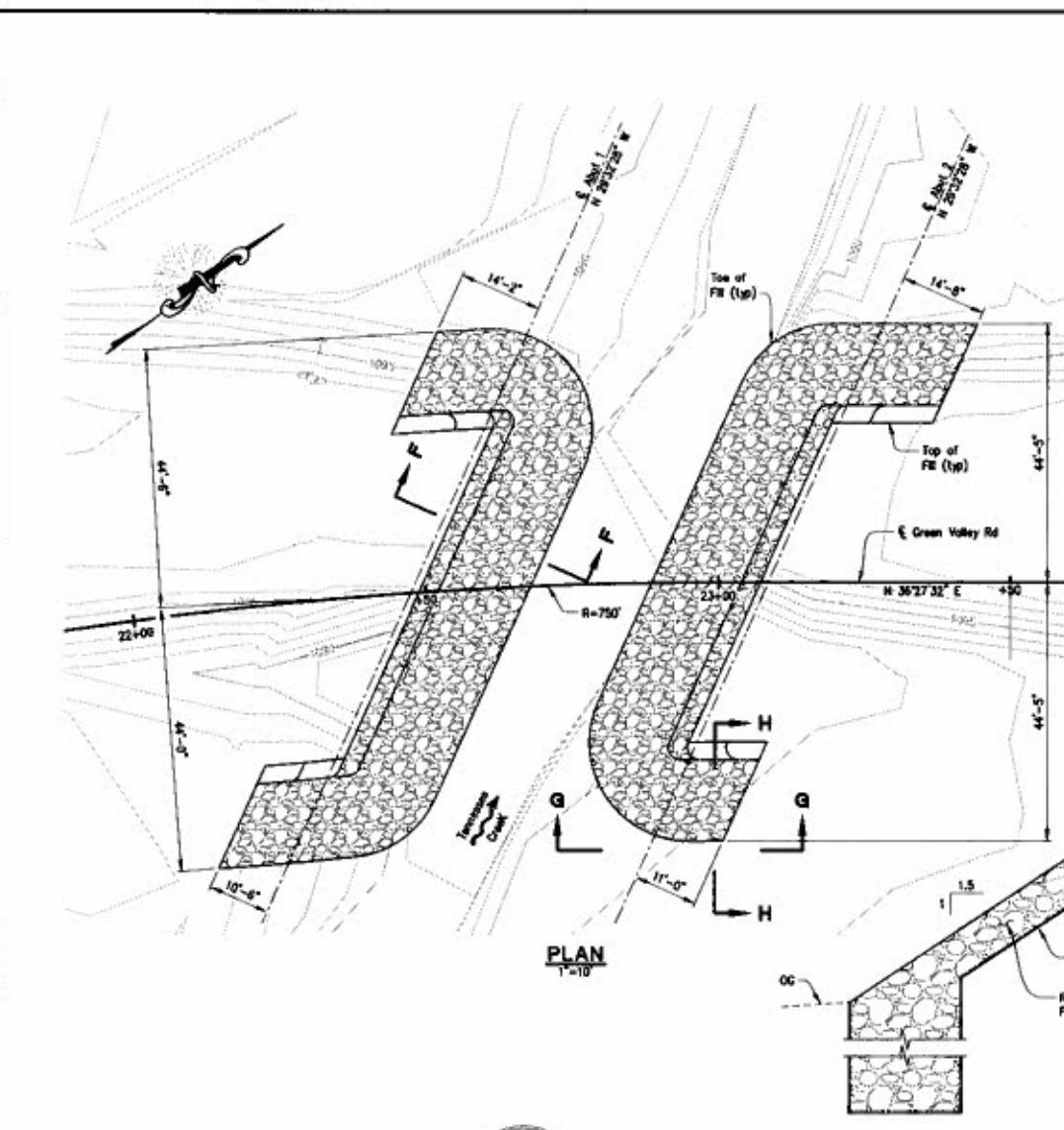


- NOTES:**
- Galvanize rail assembly after fabrication.
 - Post shall be normal to railing.
 - Rail tubes shall be shop bent or fabricated to fit horizontal curve when radius is less than 1000 feet.
 - Tube splices shall be located in the tubes spanning deck or wall joints. Increase joint width in tubes to match expansion joint width and increase sleeve length correspondingly.
 - Top rail tube shall be continuous over not less than two posts except a short post spacing is permitted near deck or wall joints, electroliers, or other rail discontinuities as noted.
 - For details and reinforcement not shown see Standard Plan.
 - See project plans for limits of tubular bicycle railing.
- SPECIAL DETAILS**
- NO SCALE
- S-10

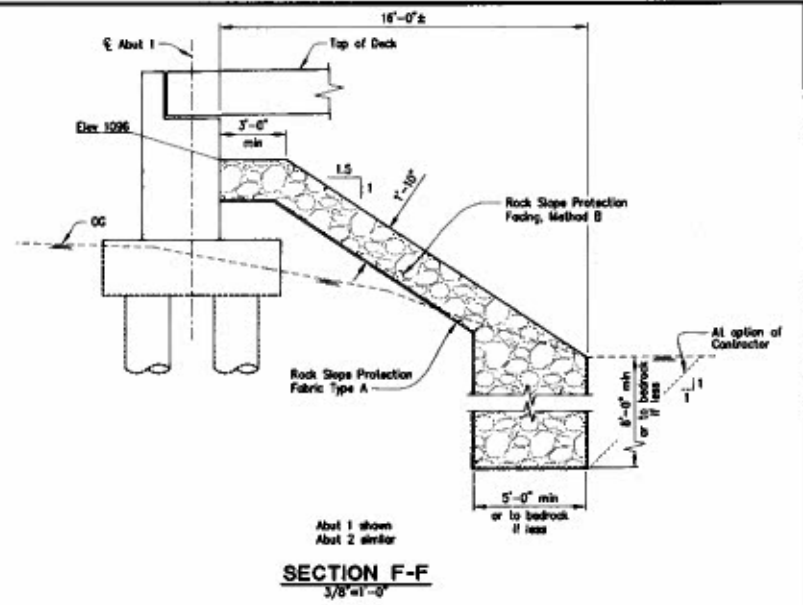
STANDARD DRAWING				STATE OF CALIFORNIA		DIVISION OF ENGINEERING SERVICES		GREEN VALLEY ROAD AT TENNESSEE CREEK BRIDGE RECONSTRUCTION PROJECT		TUBULAR BICYCLE RAILING	
RELEASE DATE	DESIGN	BY	CHECKED	DESIGNED BY	PROJECT NO.	POST NO.	SHEET NO. 49 OF 61				
4/15/08	BY	M. TRAFFAZZ	E. FROSTLADEN	CU	25C0038	EA	DATE PLOTTED: 5/20/10				
FILE NO.	DETAILS	BY	CHECKED	DATE	PURCHASED FROM USER						
xs16-500e	BY	A. YES	E. FROSTLADEN	6/08	10-0299.B.49						
QUANTITY	BY	M. TRAFFAZZ	DATE	6/08							



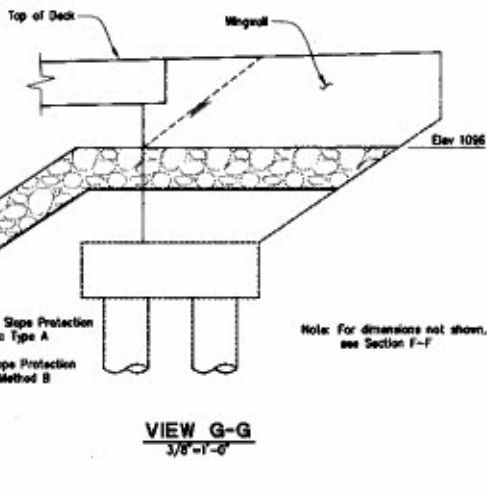
ORIGINAL SCALE: 1/8" = 1'-0"
 FOR REDUCED PLANS: 1/4" = 1'-0"
 REVISIONS:



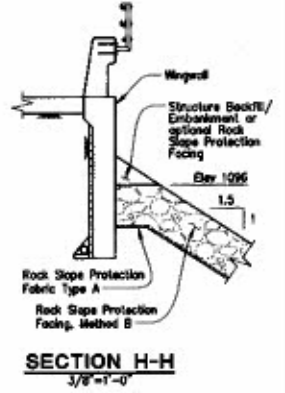
PLAN
1"=10'



SECTION F-F
3/8"=1'-0"

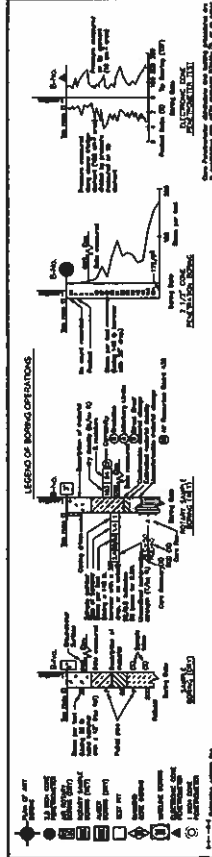


VIEW G-G
3/8"=1'-0"



SECTION H-H
3/8"=1'-0"

	PREPARED UNDER THE SUPERVISION OF REGISTERED CIVIL ENGINEER 5/20/10	DRAWN BY S.A. A.C. CHECKED BY J.G. 11/08/08 DATE PLOTTED 20090330		EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION	GREEN VALLEY ROAD AT TENNESSEE CREEK BRIDGE RECONSTRUCTION PROJECT ROCK SLOPE PROTECTION	SHEET S-11 30 OF 61 77109
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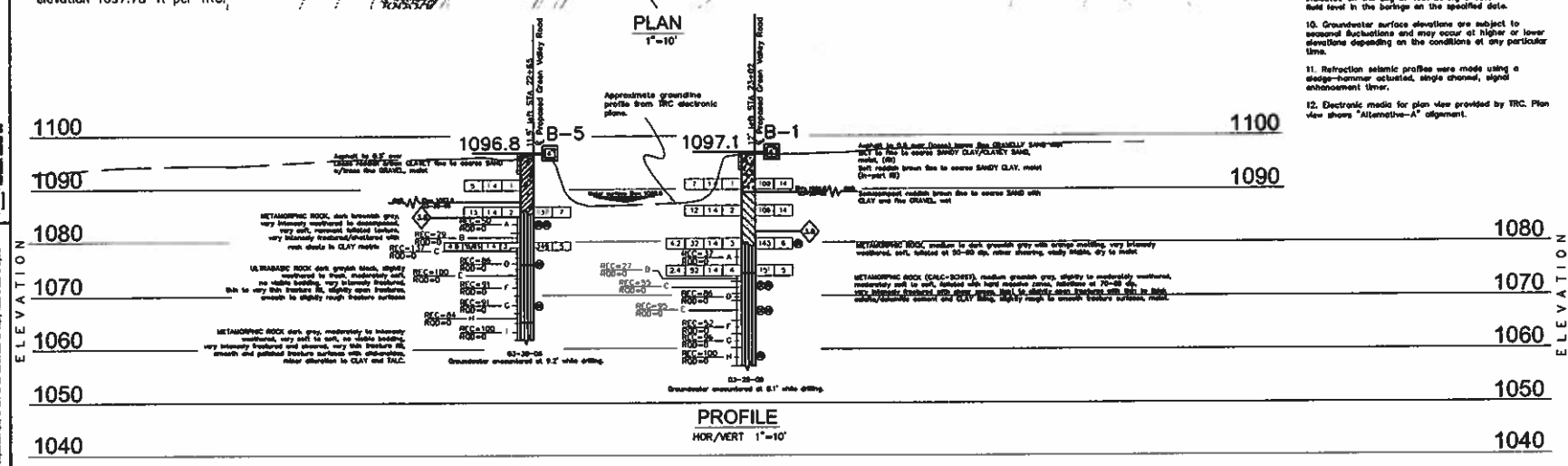
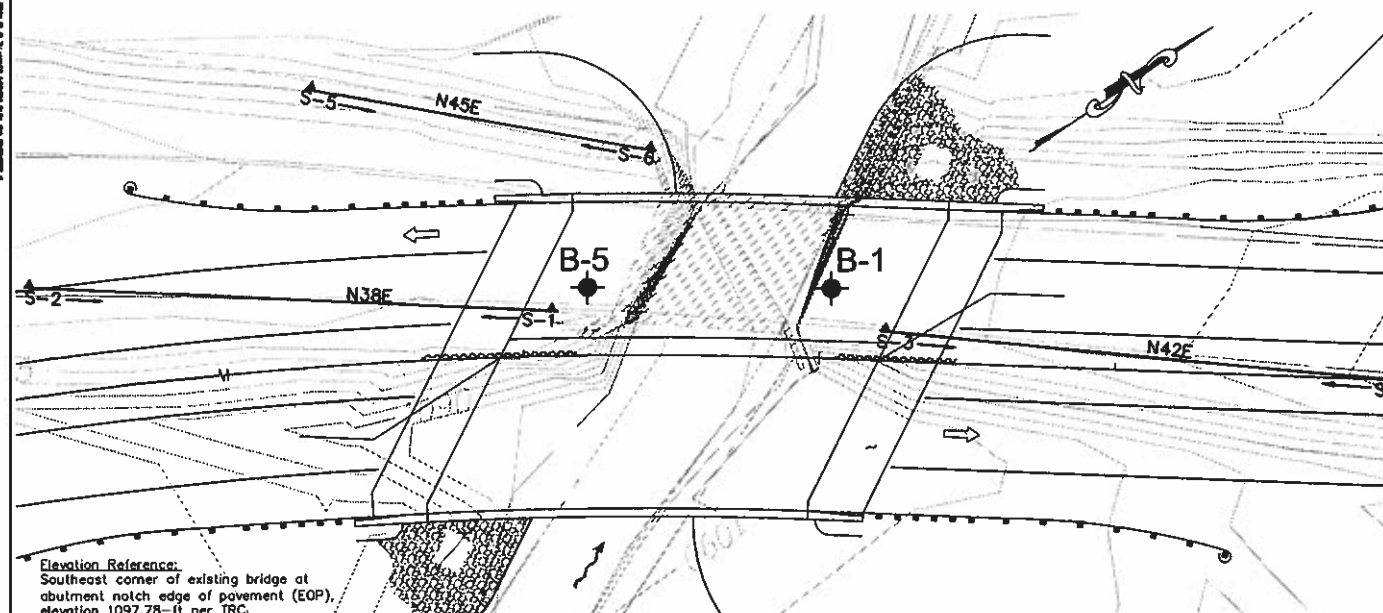


LEGEND OF EARTH MATERIALS

SYMBOL	DESCRIPTION
(Symbol)	CLAY
(Symbol)	SANDY CLAY
(Symbol)	SAND
(Symbol)	GRAVELLY SAND
(Symbol)	GRAVELLY SANDY CLAY
(Symbol)	GRAVELLY SANDY SILT
(Symbol)	GRAVELLY SILT
(Symbol)	GRAVELLY SILTY SAND
(Symbol)	GRAVELLY SILTY CLAY
(Symbol)	GRAVELLY SILTY SANDY CLAY
(Symbol)	GRAVELLY SILTY SANDY SILT
(Symbol)	GRAVELLY SILTY SANDY CLAY SILT
(Symbol)	GRAVELLY SILTY SANDY CLAY SAND
(Symbol)	GRAVELLY SILTY SANDY CLAY SANDY SILT
(Symbol)	GRAVELLY SILTY SANDY CLAY SANDY SAND
(Symbol)	GRAVELLY SILTY SANDY CLAY SANDY SILTY SAND
(Symbol)	GRAVELLY SILTY SANDY CLAY SANDY SILTY SANDY SILT
(Symbol)	GRAVELLY SILTY SANDY CLAY SANDY SILTY SANDY SANDY SILT
(Symbol)	GRAVELLY SILTY SANDY CLAY SANDY SILTY SANDY SANDY SANDY SILT
(Symbol)	GRAVELLY SILTY SANDY CLAY SANDY SILTY SANDY SANDY SANDY SANDY SILT

CONSISTENCY CLASSIFICATION

MOISTURE RATIO (%)	LIQUIDITY INDEX	CONSISTENCY
0 - 25	0 - 0.25	Very Stiff
25 - 50	0.25 - 0.75	Stiff
50 - 75	0.75 - 1.25	Medium Stiff
75 - 90	1.25 - 1.75	Soft
90 - 100	1.75 - 2.00	Very Soft
100 - 110	2.00 - 2.25	Soft to Medium
110 - 120	2.25 - 2.50	Medium
120 - 130	2.50 - 2.75	Medium to Stiff
130 - 140	2.75 - 3.00	Stiff to Very Stiff
140 - 150	3.00 - 3.25	Very Stiff
150 - 160	3.25 - 3.50	Very Stiff to Hard
160 - 170	3.50 - 3.75	Hard
170 - 180	3.75 - 4.00	Very Hard
180 - 190	4.00 - 4.25	Very Hard to Extremely Hard
190 - 200	4.25 - 4.50	Extremely Hard



DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	CD	C.R.		31	61

CERTIFIED ENGINEERING GEOLOGIST

PLANS APPROVAL DATE

TABER CONSULTANTS
3911 West Capital Avenue
West Sacramento, CA 95691-2118
Job No. 102/300-03 LOCATION: 36120-76, 328N, 172W


IRC
10680 White Rock Road, Suite 100
Rancho Cordova, CA 95670


REGISTERED GEOTECHNICAL ENGINEER
No. 2322
Exp. 03-31-11
CIVIL ENGINEERING GEOLOGIST
STATE OF CALIFORNIA



- NOTES:**
- Field classification of soils was in accordance with ASTM D 2485-00 "Description and Identification of Soils (Visual-Manual Procedure)".
 - Rock classification according to Bureau of Reclamation, U.S. Department of the Interior, "Engineering Geology Field Manual" and "Manual of Field Geology" (Compton, Robert G.).
 - Standard Penetration tests were performed in accordance with ASTM D 1586-98 using a hammer operated with an automated drop system. Drift rods were 1.5/8-inch diameter "A"-rod; sampler was driven with brass liners.
 - The length of each sampled interval is shown graphically on the boring log. Where blow counts ("N") represent the "standard penetration resistance" interval in accordance with ASTM D1586-98. Where less than 1 foot of penetration is achieved, the blow count shown is for that portion of the "standard penetration resistance" interval actually penetrated.
 - Consistency of soils shown in () where estimated.
 - Rock Quality Designation (RQD), Weathering, Rock Hardness/Strength, Bedding, and Fracture Density, as shown on this sheet, were used to describe of rock core. Descriptors were determined in the field.
 - REC = Core Recovery (percent).
 - RQD = Rock Quality Designation (percent).
 - Groundwater surface (GWS) elevations in the borings indicated on the Log of Test Boring Sheets reflect the hole level in the borings on the specified date.
 - Groundwater surface elevations are subject to seasonal fluctuations and may occur at higher or lower elevations depending on the conditions of any particular time.
 - Refraction seismic probes were made using a sledge-hammer actuated, single channel, signal enhancement timer.
 - Electronic media for plan view provided by IRC. Plan view shows "Alternative-A" alignment.

DESIGN OVERSIGHT	DRAWN BY	M. W. McIlroy	M. W. McIlroy	PREPARED FOR	BRIDGE NO.	GREEN VALLEY ROAD AT TENNESSEE CREEK BRIDGE
	CHECKED BY	M. W. McIlroy	FIELD ESTIMATOR	EL DORADO COUNTY	25C0038	
			DATE	DEPARTMENT OF PUBLIC WORKS	POST MILE	LOG OF TEST BORINGS
			March 2005			

Drawing name: C:\ch30\Projects\77109 Tennessee Creek\CADD Files\Symbols\W-1.dwg Layout: Top, W-1 May 20, 2010 - 1:13pm Abirapop
 ORIGINAL SCALE IS IN INCHES
 FOR REDUCED PLANS










 SECTION IDENTIFICATION LETTER
 SHEET NUMBER WHERE SECTION IS TAKEN OR APPEARS






















 DETAIL IDENTIFICATION NUMBER
 SHEET NUMBER WHERE DETAIL IS TAKEN OR APPEARS


 HORIZONTAL BEARING AND DISTANCE OF NEW PIPE

 SLOPE OF NEW PIPE (PROFILE)


 INDICATES CURVE NUMBER (PLAN)

PLAN SYMBOLS (PROPOSED)


 NEW FACILITIES

 NEW TOP OF CUT

 NEW TOE OF FILL

 EASEMENT/BOUNDARY/ROW AS LABELED

 NEW BUTTERFLY VALVE

 NEW COMBINATION AIR AND VACUUM VALVE

 NEW BLOW-OFF VALVE

 NEW BRANCH STUB OUT


 EXISTING FACILITIES

 EXISTING FENCE

 EXISTING PIPE OR STRUCTURE TO BE ABANDONED OR REMOVED

 EXISTING VEGETATION

 EXISTING MANHOLE & PIPELINE

 EXISTING POWER POLE

 PROPERTY LINE

 EXISTING DIRT OR GRAVEL ROAD

 EXISTING PAVED ROAD

 EXISTING DRAINAGE FLOWLINE

 EXISTING OVERHEAD ELECTRICAL POWER LINES

 EXISTING OVERHEAD ELECTRICAL POWER AND TELEPHONE LINES

 EXISTING UNDERGROUND FIBER OPTIC LINE

 EXISTING OVERHEAD TELEPHONE AND TELEVISION CABLE

 EXISTING UNDERGROUND TELEPHONE CABLE

 EXISTING UNDERGROUND WATER PIPE

 EXISTING UNDERGROUND SANITARY SEWER PIPE

 EXISTING UNDERGROUND STORM DRAIN PIPE

 EXISTING UNDERGROUND GAS SERVICE

 EXISTING CULVERT WITH SIZE AND PIPE TYPE

TIE-IN CONNECTION AND DISINFECTION NOTES:

- CONTRACTOR MUST PREPARE AND SUBMIT ALL SHOP DRAWINGS, FOR ALL PIPING MATERIALS AND APPURTENANCES, INCLUDING PROPOSED METHOD OF INSTALLING, TESTING, AND DISINFECTION OF PIPELINE. METHOD OF INSTALLATION SHOULD BE BASED AROUND THE FOLLOWING CRITERIA:
- FABRICATE AND DELIVER ALL INTENDED MATERIALS TO JOB SITE THAT ARE INCLUDED FOR EID PIPE RELOCATION THAT INCLUDES, BUT IS NOT LIMITED TO: 20" DIP, FITTINGS, GRIPPER RINGS, AND APPURTENANCES.
 - CONSTRUCT NEW 20" DUCTILE IRON RELOCATION PIPELINE AND PIPELINE APPURTENANCES, IN MULTIPLE STEPS, STARTING WITH THE CONSTRUCTION OF THE PIPELINE AND APPURTENANCES BETWEEN CONNECTION PIECE 1A AND CONTINUING TO THE NEW ISOLATION VALVE, CONNECTION PIECE 1B.
 - NEWLY CONSTRUCTED PIPELINE SHALL BE TEMPORARILY BLIND FLANGED, PRESSURE TESTED AND DISINFECTED IN ACCORDANCE WITH CONTRACTORS SUBMITTED PLAN, CONTRACT SPECIFICATIONS, AND EID INSPECTOR APPROVAL. CONTRACTOR'S SUBMITTED PLAN MUST BE APPROVED BY EID'S PROJECT MANAGER BEFORE WORK MAY START. PRESSURE TESTING WILL ALSO INCLUDE TESTING AGAINST THE NEW BUTTERFLY VALVE. THE CONTRACTOR SHALL INSTALL ANY APPARATUS NECESSARY TO COMPLETE THE WORK AT NO ADDITIONAL CHARGE.
 - IN ADDITION, DUCTILE IRON PIPE AND FITTINGS INCLUDED IN CONNECTION DETAILS 1 AND 2 MUST BE DISINFECTED ABOVE GROUND IN ACCORDANCE WITH SPECIFICATIONS AND ANWA C851 DISINFECTION OF WATER MAINS, ALONG WITH EID INSPECTOR APPROVAL. BETWEEN THE TIME THE ACCEPTED BACTERIOLOGICAL TESTING RESULTS ARE RECEIVED UNTIL THE PIPE IS INSTALLED, PIPE ENDS MUST BE SEALED WITH PLASTIC WRAPS, WATERTIGHT PLUGS, OR CAPS.
 - IN COOPERATION WITH EID, ISOLATE EXISTING TRANSMISSION MAIN TO BE CUT BY CLOSING THE NEAREST ISOLATION (BUTTERFLY) VALVES UPSTREAM AND DOWNSTREAM OF THE INTENDED TIE-IN.
 - FIELD VERIFY THE LOCATION AND OPERATIONAL CAPABILITIES OF THE EXISTING AIR RELEASE AND AIR AND VACUUM VALVES PRIOR TO THE DRAINING OF THE EXISTING ISOLATED LINE SEGMENT.
 - EXPOSE AND EXCAVATE AROUND THE EXISTING PIPELINE AT THE LOCATIONS OF THE TIE-INS. PROVIDE TEMPORARY SUPPORT NECESSARY TO MAINTAIN EXISTING DIP IN SERVICE WITHOUT LEAKAGE. METHOD OF SUPPORT MUST NOT INTERFERE WITH CONSTRUCTION OF NEW TIE-IN.
 - BEFORE ANY WORK MAY BEGIN ON THE EXISTING EID TRANSMISSION MAIN, CONTRACTOR MUST SUBMIT A DETAILED TIE-IN PROCEDURE AND SPECIFY THE LOCATION AND TIMING SEQUENCE OF THE TIE-IN EVENT TO BE APPROVED BY THE EID PROJECT MANAGER.
 - TO DRAIN THE EXISTING LINE, INSERT A SADDLE TAP-TYPE FLANGE AT THE LOWEST ELEVATION ALONG THE PIPELINE BETWEEN THE TWO ISOLATION VALVES. THE DISTRICT SHALL OPERATE ALL DISTRICT VALVES.
 - DRAIN THE EXISTING LINE AND DISPOSE OF WATER IN ACCORDANCE AND APPROVAL OF EID AND APPROPRIATE REGULATORY AGENCIES.
 - ONCE LINE HAS BEEN COMPLETELY DRAINED, THE SADDLE TAP SHALL BE PERMANENTLY PLUGGED TO PREVENT ANY FURTHER LEAKAGE.
 - TWO CUTS SAW CUTS SHALL BE MADE ON THE EXISTING PIPE AT EACH PROPOSED TIE-IN LOCATION. ONE CUT AT THE TIE-IN LOCATION AND ANOTHER ALONG THE EXISTING PIPE THAT WILL NO LONGER BE IN SERVICE. THE SECOND CUT AT EACH TIE IN SHALL PROVIDE ENOUGH PIPE REMOVAL TO ALLOW CONSTRUCTION OF NEW TIE-IN. ONCE THESE PIECES ARE CUT, THEY SHALL BE REMOVED OUTSIDE OF TRENCH AREA TO PREPARE THE NEW TIE IN.
 - THE EXISTING DIP THAT IS TO BE TAKEN OUT OF SERVICE SHALL BE SUFFICIENTLY CAPPED WITH CONCRETE A MINIMUM OF 10' AT EACH END BEFORE BACKFILL.
 - PROPERLY PREPARE THE EXISTING LINE FOR TIE-IN WITH NEW SYSTEM WHICH WILL ALSO INCLUDE DISINFECTION OF THE SAW CUT PIPE.
 - INSTALL AND COMPLETE NEWLY CONNECTED SYSTEM. COORDINATE WITH EID TO OPEN ISOLATION VALVES AND RESTORE SYSTEM OPERATION.
 - EID REQUIRES THAT TIE-IN TO EXISTING SYSTEM MUST NOT EXCEED AN 8-HOUR TIME PERIOD, AND SHALL BE DONE AT NIGHT TIME DURING OFF-PEAK DEMAND HOURS.
 - THE CONTRACTOR SHALL FURNISH ALL PIPE AND FITTINGS FOR CONNECTION TO THE MAIN, PUMPS, PRESSURE REGULATOR, A CALIBRATED WATER STORAGE TANK, DISINFECTANT, AND ALL OTHER MATERIALS, FITTINGS AND PIPELINES REQUIRED TO PERFORM THE TESTS AND MAKE NECESSARY REPAIRS.
 - TESTING SHALL BE DONE AFTER THE ROCK SUBGRADE IS PLACED AND COMPACTED. NO LINES SHALL BE ACCEPTED AS PASSING UNTIL ALL UNDERGROUND CONSTRUCTION THAT MAY DISTURB THE WATERLINE IS COMPACTED.
 - THE PRESSURE TEST AND THE TEST FOR ALLOWABLE LEAKAGE SHALL BE PERFORMED SIMULTANEOUSLY. TESTING SHALL NOT COMMENCE UNTIL THE WATER MAIN AND ALL APPURTENANCES HAVE BEEN COMPLETELY INSTALLED. THE CONTRACTOR MAY, AT ANY TIME AND AT HIS EXPENSE, PERFORM HIS OWN PRESSURE AND LEAK TEST; HOWEVER THESE TESTS WILL IN NO WAY OFFSET THE REQUIREMENT FOR A FINAL PRESSURE AND LEAK TEST.
 - AFTER SUCCESSFULLY TESTING THE WATER MAIN AND APPURTENANCES, THEY SHALL BE FLUSHED AND DISINFECTED.
 - AFTER HAVING BEEN SUCCESSFULLY TESTED AND DISINFECTED, THE WATER MAIN MAY BE CONNECTED TO THE DISTRICT'S WATER SYSTEM.

CORROSION NOTES:

- POLYETHYLENE ENCASE ALL PIPE IN ACCORDANCE WITH THE EL DORADO IRRIGATION DISTRICT STANDARD DRAWING NO. W26.

CONCRETE NOTES:

- ALL REINFORCING STEEL, INCLUDING WELDED WIRE MESH, SHALL BE OF THE SIZE AND IN THE LOCATION REQUIRED FOR DESIGN LOADS. ALL REINFORCING SHALL BE SUFFICIENTLY TIED TO WITHSTAND ANY DISPLACEMENT DURING THE POURING OPERATION. ALL BARS SHALL BE INTERMEDIATE GRADE, OR AS SPECIFIED, BULLET STEEL CONFORMING TO ASTM A615.
- THRUST BLOCKS SHALL CONFORM TO CALTRANS CLASS C SPECIFICATIONS.

REVISION	DATE	BY	DESCRIPTION



PREPARED UNDER THE SUPERVISION OF
 REGISTERED CIVIL ENGINEER
 DATE:

DESIGNED: JMG
 DRAWN: DCP
 CHECKED: DTK
 DATE: 05/03/10
 ROAD NUMBER: 000



EL DORADO COUNTY
 DEPARTMENT OF TRANSPORTATION

GREEN VALLEY ROAD AT TENNESSEE
 CREEK BRIDGE RECONSTRUCTION PROJECT
 SYMBOLS LEGEND & NOTES

SHEET
 W-1
 52 of 61
 77109

WATERLINE TABULATION

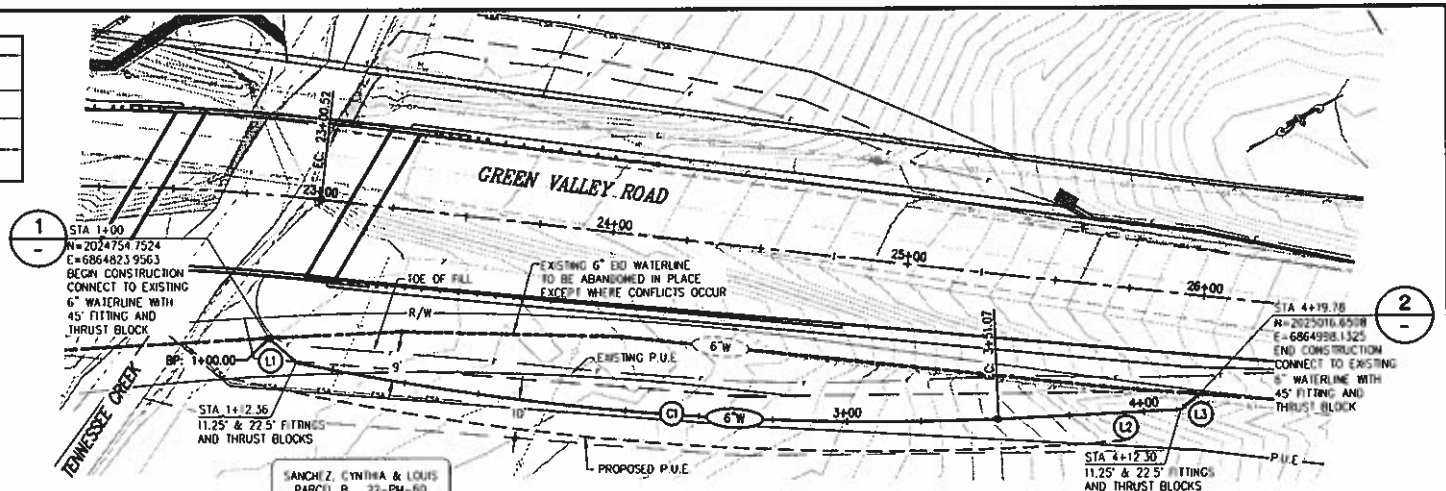
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(C1)			976.68'	238.70'	14°00'11"
(L2)	S27°14'10"W	61.25'			
(L3)	S04°44'10"W	8.18'			

EXISTING

- 2" AIR RELEASE VALVE
- COMBINATION AIR VACUUM & AIR RELEASE VALVE W/SIZE
- BENDS
- BUTTERFLY VALVE
- CAP
- DOMESTIC PIPELINE WITH SIZE
- GATE VALVE

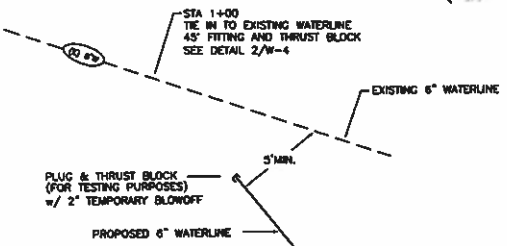
PROPOSED

- AIR RELEASE VALVE
- COMBINATION AIR VACUUM & AIR RELEASE VALVE W/SIZE
- BENDS
- BUTTERFLY VALVE
- CAP
- DOMESTIC PIPELINE WITH SIZE
- GATE VALVE

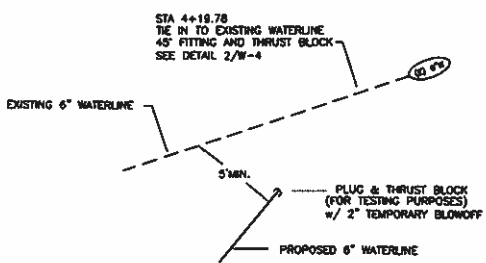


PLAN - WATERLINE RELOCATION (SANCHEZ PROPERTY)

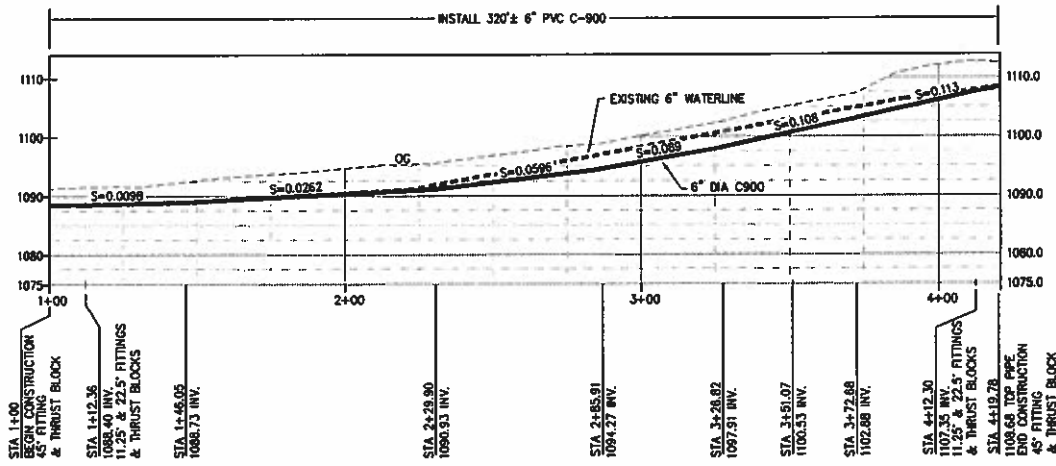
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1 TIE-IN DETAIL 1+00
N.T.S.



2 TIE-IN DETAIL 4+19.78
N.T.S.



PROFILE - WATERLINE RELOCATION (SANCHEZ PROPERTY)

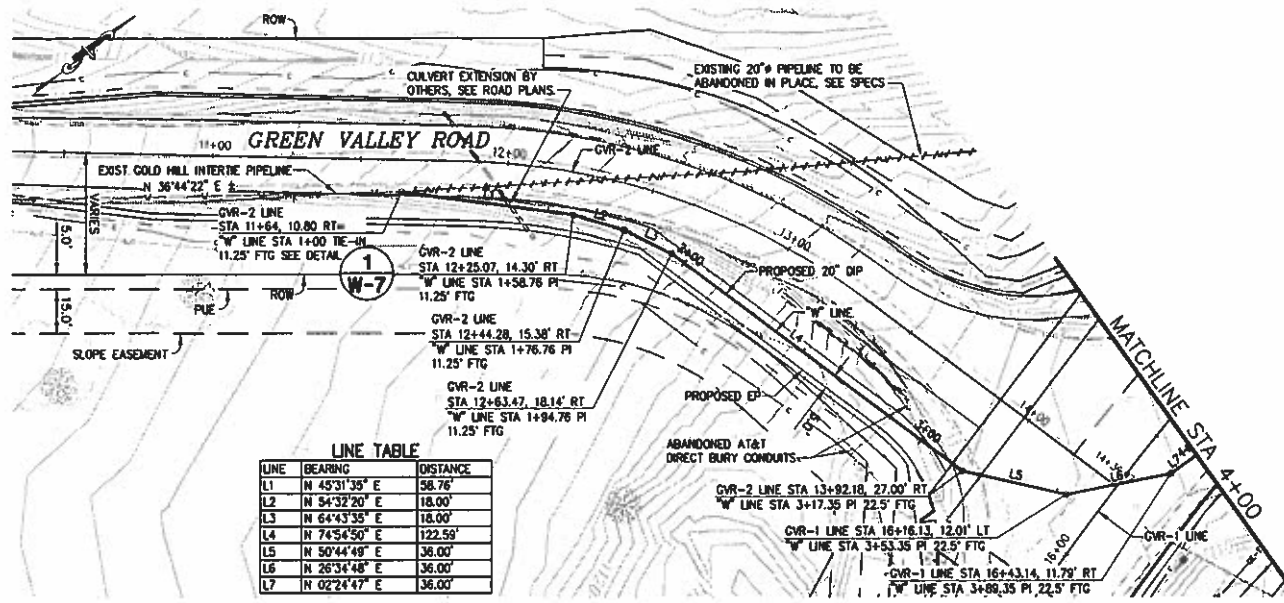
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NOTE:
MINIMUM 4' COVER OVER NEW WATERLINE TO FINISH GRADE.

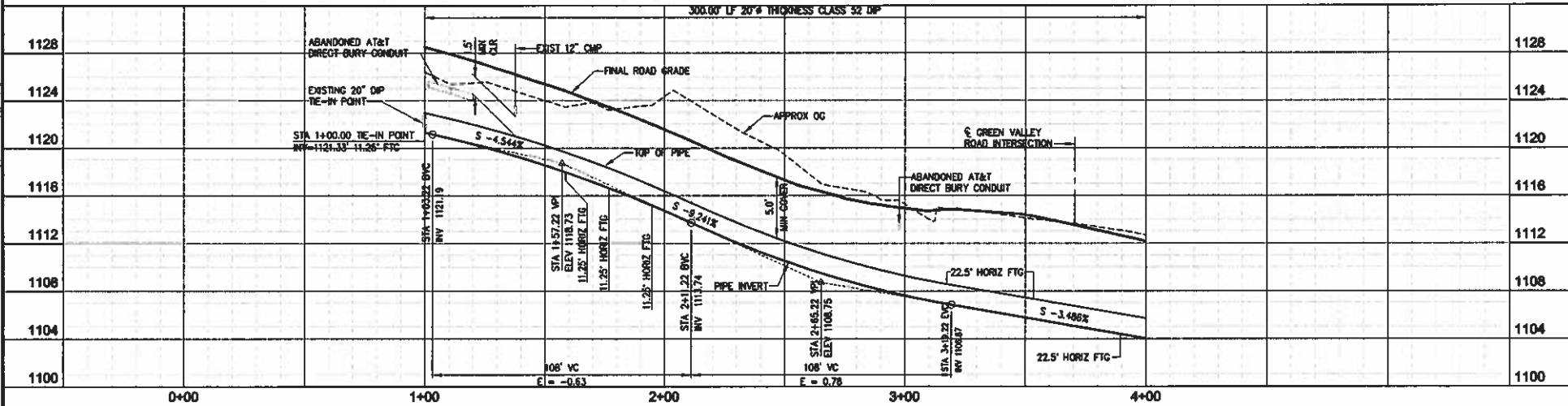
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Sheet: W-3 of 61
77109

	PREPARED UNDER THE SUPERVISION OF 	DESIGNED CHECKED DATE 05/24/10		EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION	GREEN VALLEY ROAD AT TENNESSEE CREEK BRIDGE RECONSTRUCTION PROJECT 6" WATERLINE - PLAN & PROFILE	SHEET W-3 54 of 61 77109
	REGISTERED CIVIL ENGINEER DATE 5/20/10	ROAD NUMBER				

Drawing name: C:\proj\30 Projects\77109 Tennessee Creek\CAD Files\Streets\W-5.dwg Layout: Tab: W-5 May 04-2010 - 1:27pm Ashipoo
 ORIGINAL SCALE IS IN INCHES
 FOR REDUCED PLANS



PLAN & PROFILE SCALE:
 HORIZ. = 1" = 20'
 VERT. = 1" = 4'



PREPARED UNDER THE SUPERVISION OF No. C44811 03/31/10 CIVIL ENGINEER	REGISTERED CIVIL ENGINEER DATE	REVISIONS NO. 1 DATE: 03/04/10 BY: [Signature]	SHEET W-5 56 OF 61 77109
		EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION	

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 FOR REDUCED PLANS
 REVISION

CONSTRUCTION NOTES:

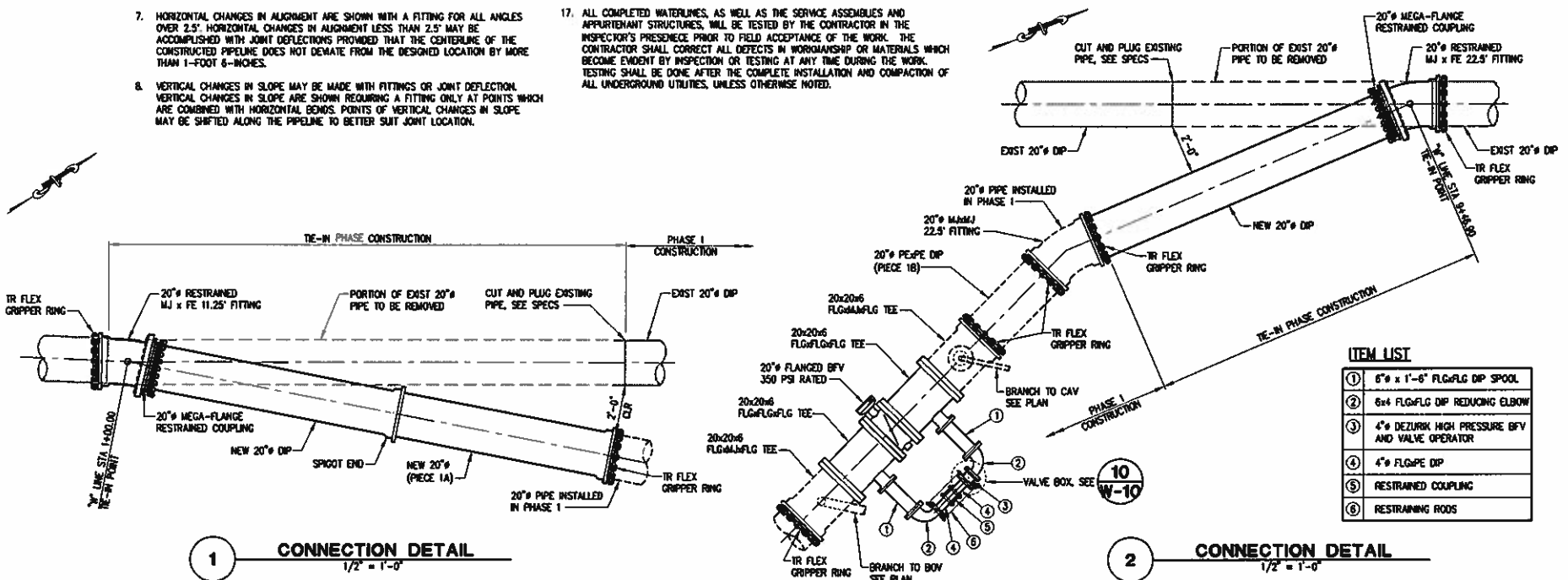
- ALL WORK SHALL BE ACCOMPLISHED UNDER THE APPROVAL, INSPECTION AND TO THE SATISFACTION OF THE EL DORADO IRRIGATION DISTRICT (EID) PROJECT MANAGER. ALL CONSTRUCTION SHALL CONFORM TO THESE PLANS AND ACCOMPANYING SPECIFICATION AND SPECIAL PROVISIONS.
- LOCATION OF ALL UNDERGROUND FACILITIES ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF ALL FACILITIES PRIOR TO ANY EXCAVATION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL UNDERGROUND FACILITIES AFFECTED BY THE WORK AND SHALL CONTACT UNDERGROUND SERVICES ALERT (USA) 48 HOURS PRIOR TO ANY EXCAVATION WORK FOR DETERMINATION AND LOCATION OF UNDERGROUND UTILITIES. (PHONE 1-800-642-2444).
- CONNECTING TO EXISTING WATER FACILITIES SHALL BE DONE BY A LICENSED CONTRACTOR IN ACCORDANCE WITH EID TIE-IN PROCEDURES SHOWN ON THESE PLANS.
- ALL WORK PERFORMED WITHIN THE ROADWAY LIMITS SHALL BE REPAIRED IN ACCORDANCE WITH D.O.T. STANDARD SPECIFICATIONS.
- EXISTING UTILITIES, PIPELINES AND STRUCTURES SHOWN ON THE DRAWINGS ARE IN ACCORDANCE WITH AVAILABLE RECORDS. THE CONTRACTOR SHALL NOTIFY ALL UTILITY OFFICES WHICH ARE AFFECTED BY THE CONSTRUCTION OPERATION WELL IN ADVANCE OF CONSTRUCTION. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION, SIZE, TYPE AND ELEVATION OF ALL EXISTING PIPELINES AND STRUCTURES.
- HORIZONTAL CHANGES IN ALIGNMENT ARE SHOWN WITH A FITTING FOR ALL ANGLES OVER 2.5'. HORIZONTAL CHANGES IN ALIGNMENT LESS THAN 2.5' MAY BE ACCOMPLISHED WITH JOINT DEFLECTIONS PROVIDED THAT THE CENTERLINE OF THE CONSTRUCTED PIPELINE DOES NOT DEVIATE FROM THE DESIGNED LOCATION BY MORE THAN 1-FOOT 6-INCHES.
- VERTICAL CHANGES IN SLOPE MAY BE MADE WITH FITTINGS OR JOINT DEFLECTION. VERTICAL CHANGES IN SLOPE ARE SHOWN REQUIRING A FITTING ONLY AT POINTS WHICH ARE COMBINED WITH HORIZONTAL BENDS. POINTS OF VERTICAL CHANGES IN SLOPE MAY BE SHIFTED ALONG THE PIPELINE TO BETTER SUIT JOINT LOCATION.
- LOCATION OF AIR VALVE IS SHOWN IN ITS APPROXIMATE LOCATION. THE EXACT LOCATION WILL BE DETERMINED IN THE FIELD BY EID INSPECTOR.
- ALL PIPE SHALL HAVE A MINIMUM OF 5-FEET 0-INCHES OF COVER AND ADDITIONAL COVER WHERE SHOWN ON THE DRAWINGS.
- WHERE EXCAVATION FOR ANY FACILITY EXCEEDS 5-FEET IN DEPTH THE CONTRACTOR SHALL OBTAIN AN EXCAVATION PERMIT FROM CAL/OSHA. (PHONE 1-916-920-6123)
- THE LOCATIONS SHOWN FOR THE RIGHTS-OF-WAY AND EASEMENTS ARE APPROXIMATE ONLY AND ARE BASED ON MAPS PROVIDED BY THE COUNTY OF EL DORADO TRANSPORTATION DEPARTMENT. PROPERTY CORNERS WERE NOT FIELD LOCATED BY EID. COPIES OF EASEMENT DESCRIPTIONS ARE AVAILABLE AT THE COUNTY OF EL DORADO D.O.T.
- ALL STATIONING AND DISTANCES SHOWN ON THE DRAWINGS ARE BASED ON HORIZONTAL MEASUREMENTS.
- SEE COUNTY OF EL DORADO SPECIFICATIONS FOR PROTECTION OF ALL TREES & RESTORATION OF EXISTING GRASSES & PLANTS.
- ALL PIPELINE ANGLED FITTINGS SHALL ALSO CONTAIN THRUST BLOCKS. SEE THRUST BLOCK SCHEDULE FOR DETAILS.
- ALL PIPELINE JOINTS SHALL BE AXIALLY RESTRAINED THROUGH RESTRAINED JOINTS. SEE SPECS FOR RESTRAINED JOINT TYPES.
- ALL COMPLETED WATERLINES, AS WELL AS THE SERVICE ASSEMBLIES AND APPURTENANT STRUCTURES, WILL BE TESTED BY THE CONTRACTOR IN THE INSPECTOR'S PRESENCE PRIOR TO FIELD ACCEPTANCE OF THE WORK. THE CONTRACTOR SHALL CORRECT ALL DEFECTS IN WORKMANSHIP OR MATERIALS WHICH BECOME EVIDENT BY INSPECTION OR TESTING AT ANY TIME DURING THE WORK. TESTING SHALL BE DONE AFTER THE COMPLETE INSTALLATION AND COMPACTION OF ALL UNDERGROUND UTILITIES, UNLESS OTHERWISE NOTED.

CONSTRUCTION NOTES:

- THE CONTRACTOR SHALL CONTACT EID ENGINEERING DEPARTMENT OFFICE FOR COPIES OF AS BUILT PLANS FOR VERIFYING THE LOCATION OF THE EXISTING 20" WATERLINE PRIOR TO COMMENCING CONSTRUCTION.
- EXISTING WATER SERVICES SHALL BE MAINTAINED AT ALL TIMES, EXCEPT DURING THE TIME OF CONNECTING THE EXISTING MAIN TO THE NEW MAIN, OR FOR UNFORESEEN CONDITIONS. EID SHALL BE NOTIFIED 72 HOURS IN ADVANCE OF ANY SHUT DOWN. ONLY DISTRICT PERSONNEL SHALL OPERATE ANY VALVES ON EXISTING WATER SYSTEM.
- VALVES AND ATTENDANT HARDWARE SALVAGED DURING THE WATERLINE REPLACEMENT ARE TO BE RETURNED TO THE EID DISTRICT YARD BY CONTRACTOR.
- REPLACEMENT PIPE AND FITTINGS ARE TO BE ENCASED IN 8 MIL POLYETHYLENE FILM.
- THE CONTRACTOR CAN RELOCATE AND USE EXISTING CONCRETE VALVE VAULTS IF THEY ARE NOT DAMAGED.
- ALL PIPELINES SHALL BE STERILIZED, FLUSHED AND PRESSURE TESTED IN ACCORDANCE WITH EID STANDARDS AND THESE SPECIFICATIONS.
- ALL LIDS SHALL BE MARKED WATER.

NOTE:

ALL PIPE, FITTINGS AND APPURTENANCES MUST BE RATED FOR 350 PSI MINIMUM WORKING PRESSURE.



ITEM LIST

①	6" x 1'-0" FLGxFLG DIP SPOOL
②	8x4 FLGxFLG DIP REDUCING ELBOW
③	4" DEZURK HIGH PRESSURE B/V AND VALVE OPERATOR
④	4" FLGxPE DIP
⑤	RESTRAINED COUPLING
⑥	RESTRANING RODS



PREPARED UNDER THE SUPERVISION OF
 No. C44811
 03/31/10
 REGISTERED CIVIL ENGINEER

DESIGNED BY: GCP
 CHECKED BY: DTK
 DATE: 05/04/10
 ROAD NUMBER: 000

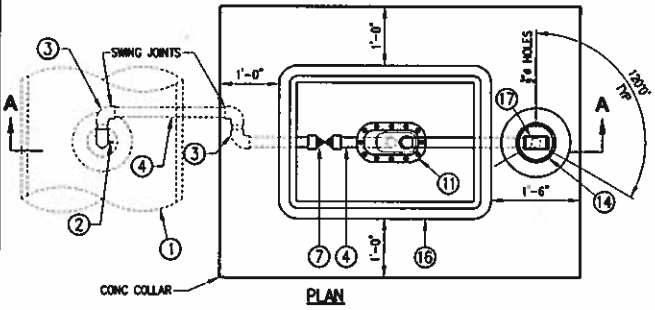


EL DORADO COUNTY
 DEPARTMENT OF TRANSPORTATION

GREEN VALLEY ROAD AT TENNESSEE CREEK BRIDGE RECONSTRUCTION PROJECT
 20" WATERLINE DETAILS

SHEET
 W-7
 58 of 61
 77109

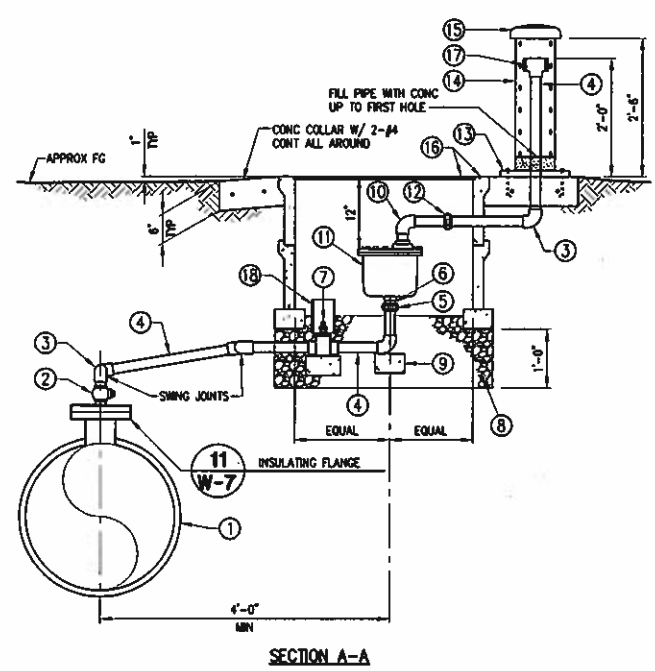
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 ORIGINAL SCALE: 18 IN. NOTES
 FOR REDUCED PLANS



- NOTES:**
1. SIZE OF PIPING SHALL MATCH SIZE OF AIR VALVE.
 2. SEE PLAN FOR VALVE SIZE AND LOCATION.
 3. ALL PIPING ABOVE GROUND TO BE PAINTED.
 4. CENTER VALVE IN LONGITUDINAL DIRECTION IN BOX.
 5. PAINT VENT PIPE ENCLOSURE SIMILAR TO MARKER POST, SAFETY BLUE.
 6. USE CHRISTY B36 FOR 1" VALVE AND CHRISTY B40 FOR 2" VALVE (OR EQUAL).

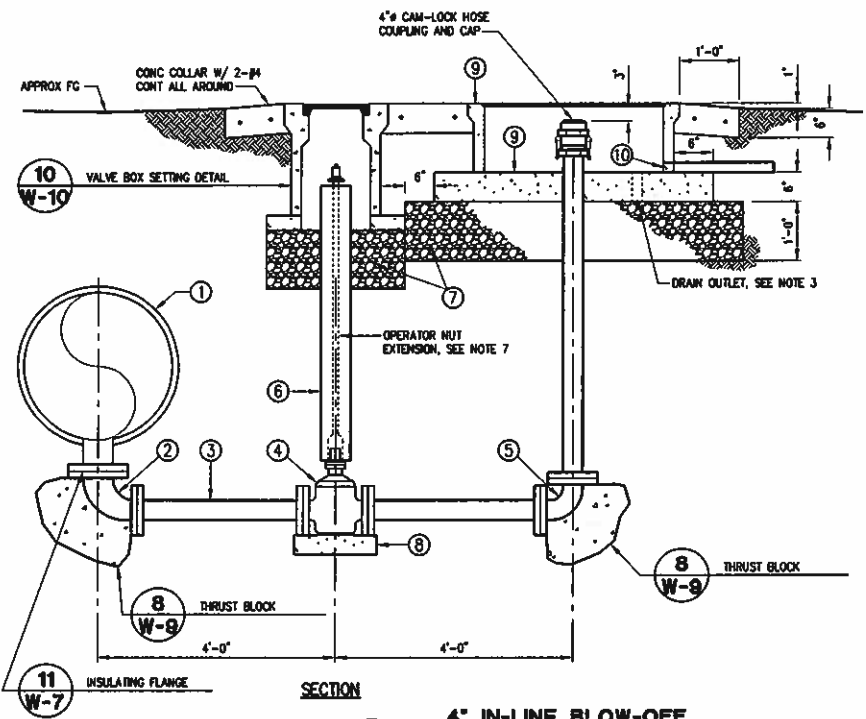
- NOTES:**
1. SEE PLAN FOR VALVE SIZE AND LOCATION.
 2. BLOW-OFF VALVES LARGER THAN 4" SHALL HAVE PRIOR EID APPROVAL.
 3. 2" DRAIN AND ROCK TO BE INSTALLED ONLY WHEN PVC DRAIN CANNOT BE INSTALLED. PRIOR EID APPROVAL REQUIRED.
 4. UTILITY BOX SHALL HAVE BOLT DOWN LID.
 5. PIPE SPOOL LENGTH MAY BE INCREASED TO FIELD CONDITIONS WITH ENGINEERS APPROVAL.
 6. SHAFT EXTENSION REQUIRED WHERE TOP OF VALVE NUT IS MORE THAN 3' BELOW FINISH GROUND. SHAFT SHALL BE PER EID STANDARD DRAWING W14.
 7. ALL PIPE, VALVES AND APPURTENANCES SHALL BE RATED FOR 350 PSI MINIMUM WORKING PRESSURE.

ITEM NO.	DESCRIPTION
①	20" x 20" x 6" COMPACT DIP TEE
②	2" COPPER CORPORATION STOP ANVNA (P.T. x F.I.P.)
③	FITTINGS SAME AS PIPE MATERIAL
④	COPPER PIPE TYPE K AND WRAP WITH PVC TAPE
⑤	INSULATED UNION
⑥	BRASS NIPPLE
⑦	BRASS BALL VALVE F.I.P. x F.I.P.
⑧	3/8" CLEAN DRAIN ROCK
⑨	12" x 12" x 4" CONC PAD
⑩	STREET ELL
⑪	SINGLE BODY COMBINATION AIR VALVE UNLESS OTHERWISE NOTED ON PLAN
⑫	UNION
⑬	6" SCREWED FLANGE ANCHORED IN CONC W/ 3 HOLLOW BOLTS
⑭	6" GALV. PIPE W/ 3 VERT. ROWS OF 3/8" HOLES (6 EACH ROW)
⑮	6" GALV SCORE CAP
⑯	CONC BOX & C.L. LID, SEE NOTE 6.
⑰	TEE WITH 20-MESH SCREEN ATTACHED AT EACH END.
⑱	4" PVC RISER



ITEM NO.	DESCRIPTION
①	20" x 20" x 6" COMPACT DIP TEE
②	2" COPPER CORPORATION STOP ANVNA (P.T. x F.I.P.)
③	FITTINGS SAME AS PIPE MATERIAL
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⑭	6" GALV. PIPE W/ 3 VERT. ROWS OF 3/8" HOLES (6 EACH ROW)
⑮	6" GALV SCORE CAP
⑯	CONC BOX & C.L. LID, SEE NOTE 6.
⑰	TEE WITH 20-MESH SCREEN ATTACHED AT EACH END.
⑱	4" PVC RISER

③ 1" AND 2" COMBINATION AIR & VACUUM VALVE (CAV)
 NO SCALE



④ 4" IN-LINE BLOW-OFF VALVE ASSEMBLY (BOV)
 NO SCALE

REVISION	DATE	DESCRIPTION



PREPARED UNDER THE SUPERVISION OF
 REGISTERED CIVIL ENGINEER
 DATE:

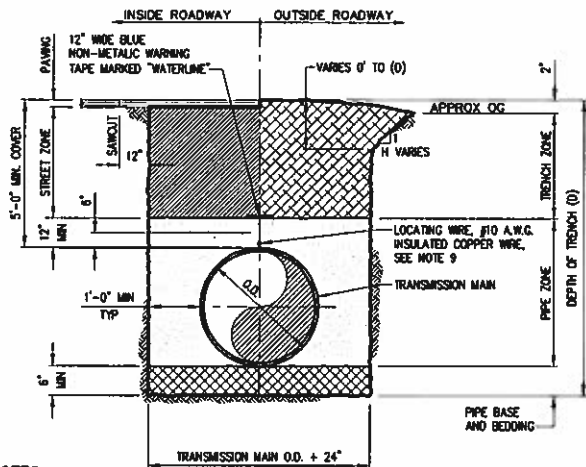


EL DORADO COUNTY
 DEPARTMENT OF TRANSPORTATION

GREEN VALLEY ROAD AT TENNESSEE
 CREEK BRIDGE RECONSTRUCTION PROJECT
 20" WATERLINE DETAILS

SHEET
 W-8
 50 OF 61
 77108

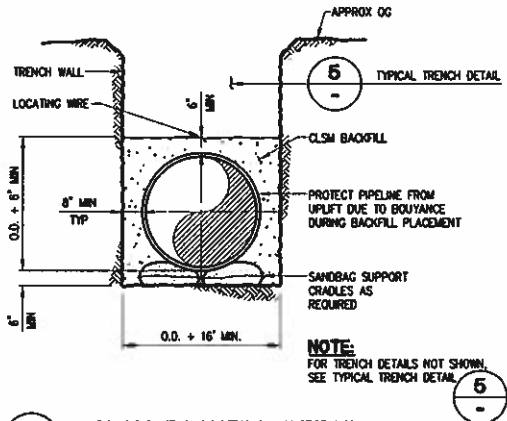
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 FOR REDUCED PLANS
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 REVISION



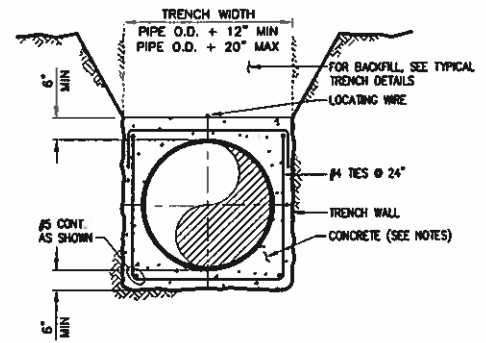
NOTES:

1. PIPE ZONE, TRENCH ZONE AND STREET ZONE BACKFILL SHALL BE COMPACTED PER SPECIFICATIONS.
2. TO AVOID PIPE DAMAGE, PIPE ZONE AND BEDDING MATERIAL SHALL BE NON-ANGULAR WHEN POLYETHYLENE PIPE IS USED; SAND WHEN FUSION EPOXY COATED METALLIC PIPE IS USED.
3. ALL EXCAVATIONS SHALL COMPLY WITH APPLICABLE LOCAL, STATE, AND FEDERAL SAFETY REGULATIONS INCLUDING CURRENT OSHA EXCAVATION AND TRENCH SAFETY STANDARDS. RESULTS OF THE PRELIMINARY FIELD INVESTIGATIONS ARE INCLUDED IN CONTRACT SPECIFICATIONS.
4. CONTRACTOR TO DETERMINE ACCEPTABLE TRENCH SIDE SLOPES, IN ACCORDANCE WITH OSHA REQUIREMENTS.
5. FOR BACKFILL MATERIAL REQUIREMENTS, SEE SPECS. PONDING OR JETTING IS NOT AN ACCEPTABLE MEANS OF COMPACTION, WHEN COUNTY OR CITY ENCROACHMENT PERMIT CONDITIONS ARE MORE RESTRICTIVE, THEY WILL TAKE PRECEDENCE.
6. TYPICAL PIPE TRENCH DETAIL SHALL BE UTILIZED UNLESS NOTED OTHERWISE.
7. MINIMUM COVER OF 60" REQUIRED.
8. STREET ZONE SHALL EXTEND FROM PIPE ZONE TO PAVING. STREET ZONE SHALL BE IN ACCORDANCE WITH EL DORADO COUNTY STANDARDS.
9. LOCATING WIRE SHALL BE #10 SOLID AWG DIRECT BURIED COPPER TRACER WIRE WITH THERMO-PLASTIC INSULATION. TERMINATION SHALL BE PER E.D. STANDARDS OR AS APPROVED BY THE ENGINEER.
10. NO OTHER UTILITIES PERMITTED WITHIN 12" OF WATER FACILITIES

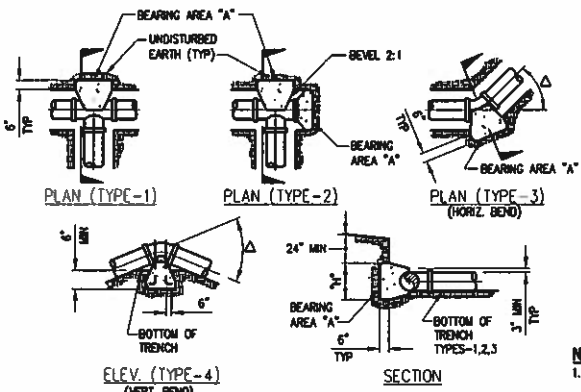
5 TYPICAL TRENCH DETAIL
NO SCALE



6 CLSM BACKFILL DETAIL
NO SCALE



7 PIPE ENCASEMENT DETAIL
NO SCALE



THRUST BLOCKS SCHEDULE

PIPE DIA. (in.)	TEST PRESSURE (P.S.I.)	THRUST BLOCK BEARING AREA "A" (S.F.)					
		90°	45°	22.5°	11.25°	TEE OR BULGEHEAD	
4"	300	7.00	4.00	2.00	1.00	5.00	
		0.24	0.16	0.05	0.02	0.15	
6"	300	7.00	4.00	2.00	1.00	5.00	
		0.24	0.16	0.05	0.02	0.15	
20"	300	78.0	42.0	22.0	11.0	55.0	
		7.05	2.93	1.16	0.44	4.30	

NOTES:

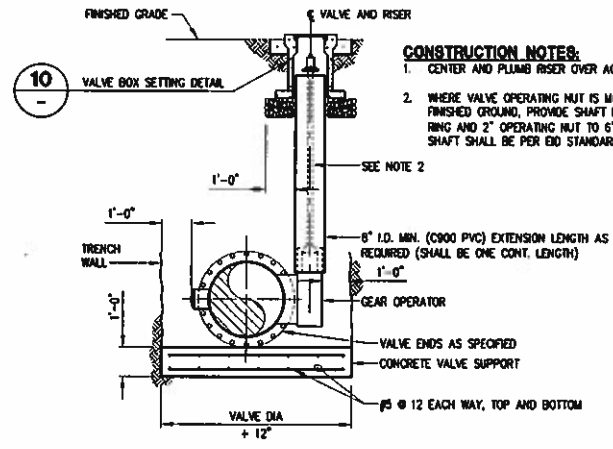
1. THRUST BLOCK DESIGN IS BASED ON TEST PRESSURE=300psi, SOIL BEARING PRESSURE=1500lbs/sq. ft. INSTALLATIONS USING HIGHER PRESSURE OR LOWER SOIL BEARING PRESSURE SHALL BE ADJUSTED ACCORDINGLY, AND SUBMITTED FOR APPROVAL BY ED ENGINEERING DEPARTMENT.
2. THRUST BLOCKS SHALL BE CONSTRUCTED OF CLASS "C" CONCRETE.
3. THRUST BLOCKS SHALL BE PLACED AGAINST UNDISTURBED SOIL.
4. JOINTS NUTS AND BOLTS SHALL BE KEPT CLEAR OF CONCRETE AND BE ABLE TO BE OPERATED WITHOUT DISTURBING THRUST BLOCK(S).
5. REBAR SHALL BE SHAPED WITH 90° BEND AT END, AND EXPOSED REBAR SHALL BE COATED WITH 80 MILS OF COLD-APPLIED BITUMASTIC WATER PROOFING COMPOUND.
6. THRUST BLOCKS FOR REDUCERS SHALL BE DESIGNED BY THE ENGINEER.

8 THRUST BLOCK DETAILS
NO SCALE

REBAR SIZES (VERTICAL THRUST ONLY)		
PIPE SIZE	Δ	REBAR
20"	0-22.5°	#8
20"	45°	#8
20"	90°	#10

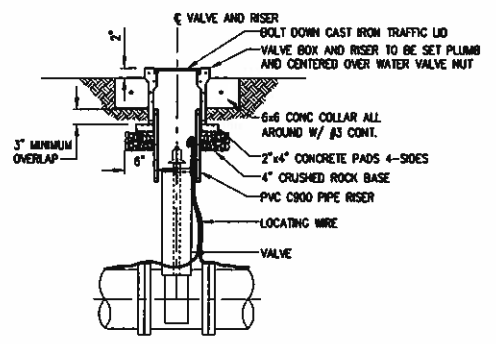
	PREPARED UNDER THE SUPERVISION OF REGISTERED CIVIL ENGINEER	DESIGNER SWS CHECKED DTK DATE 05/04/10		EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION	GREEN VALLEY ROAD AT TENNESSEE CREEK BRIDGE RECONSTRUCTION PROJECT 20" WATERLINE DETAILS	SHEET W-9 60 OF 61 77109
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 ORIGINAL SCALE IS IN INCHES
 FOR REDUCED PLANS
 TELEPHONE

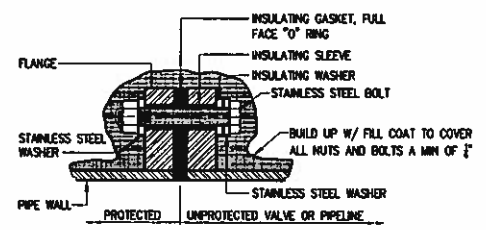


9 **INSTALLATION DETAIL
BURIED BUTTERFLY VALVE**
NO SCALE

CONSTRUCTION NOTES:
 1. CENTER AND PLUMB RISER OVER ACTUATOR NUT.
 2. WHERE VALVE OPERATING NUT IS MORE THAN 3'-0" BELOW FINISHED GROUND, PROVIDE SHAFT EXTENSION WITH CENTERING RING AND 2" OPERATING NUT TO 6" BELOW FINISHED GROUND. SHAFT SHALL BE PER EID STANDARD DRAWING W4.



10 **VALVE BOX SETTING DETAIL**
NO SCALE



11 **INSULATING FLANGE DETAIL**
NO SCALE

NOTE:
 GASKET SHALL BE FOR WATER SERVICE AND BE OF SAME PRESSURE RATING AS THE FLANGE

REVISION	DATE	DESCRIPTION



PREPARED UNDER THE SUPERVISION OF
 REGISTERED CIVIL ENGINEER
 DATE: _____

DESIGNED BY: JAG
 CHECKED BY: BTK
 DATE: 05/04/10
 ROAD NUMBER: 000



EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

**GREEN VALLEY ROAD AT TENNESSEE
 CREEK BRIDGE RECONSTRUCTION PROJECT
 20" WATERLINE DETAILS**

SHEET
W-10
 01 OF 61
 77109