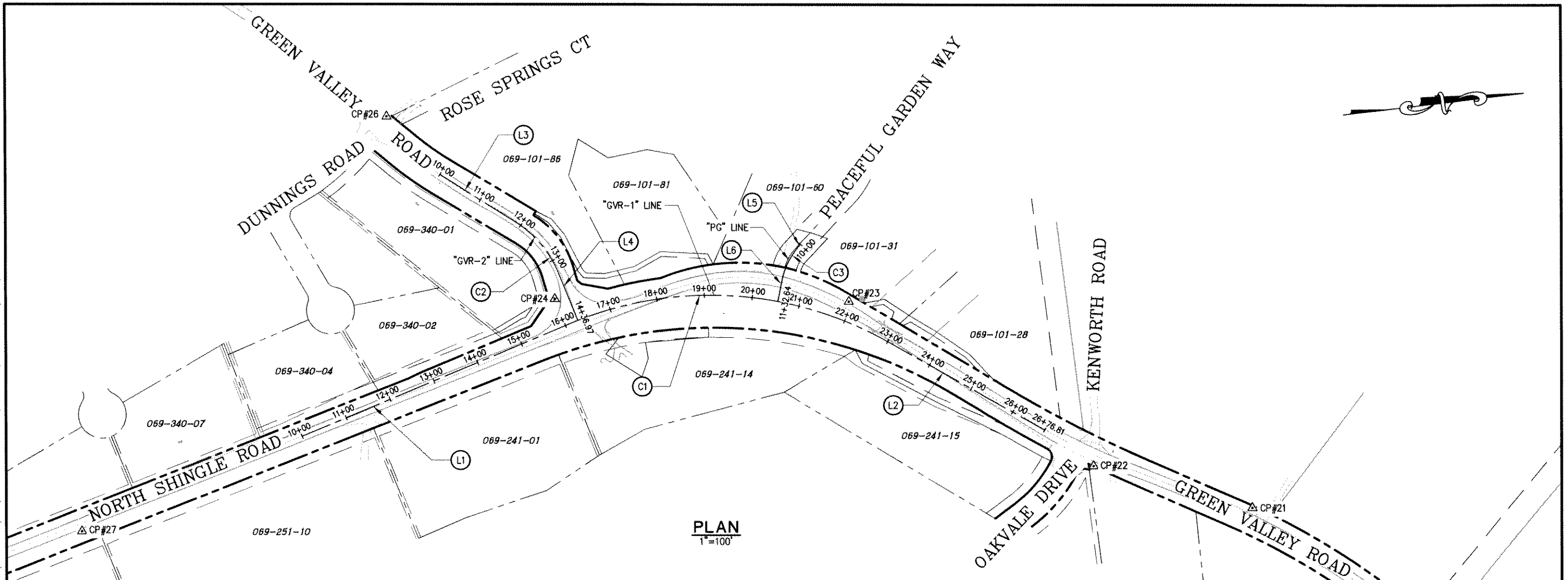




Drawing name: C:\Civil\_3D\Projects\77109 Tennessee Creek CADD Files\Sheets\_SC-1.dwg Layout Tab: SC-1 Dec 13, 2010 3:41pm D:\Dorrington

ORIGINAL SCALE IS IN INCHES  
FOR REDUCED PLANS



**PLAN**  
1"=100'

**"GVR-1" CURVE DATA**

CURVE	RADIUS	LENGTH	Δ	CHORD DIRECTION	START POINT	END POINT
(C1)	750.00'	687.88'	52°32'59"	N 10°11'02" 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	2025096.30, 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°54'50" E	2024127.33, 6864567.67	2024155.12, 6864670.76

**"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	6865103.628	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.

REVISION	NUMBER	DATE	DESCRIPTION	BY



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

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

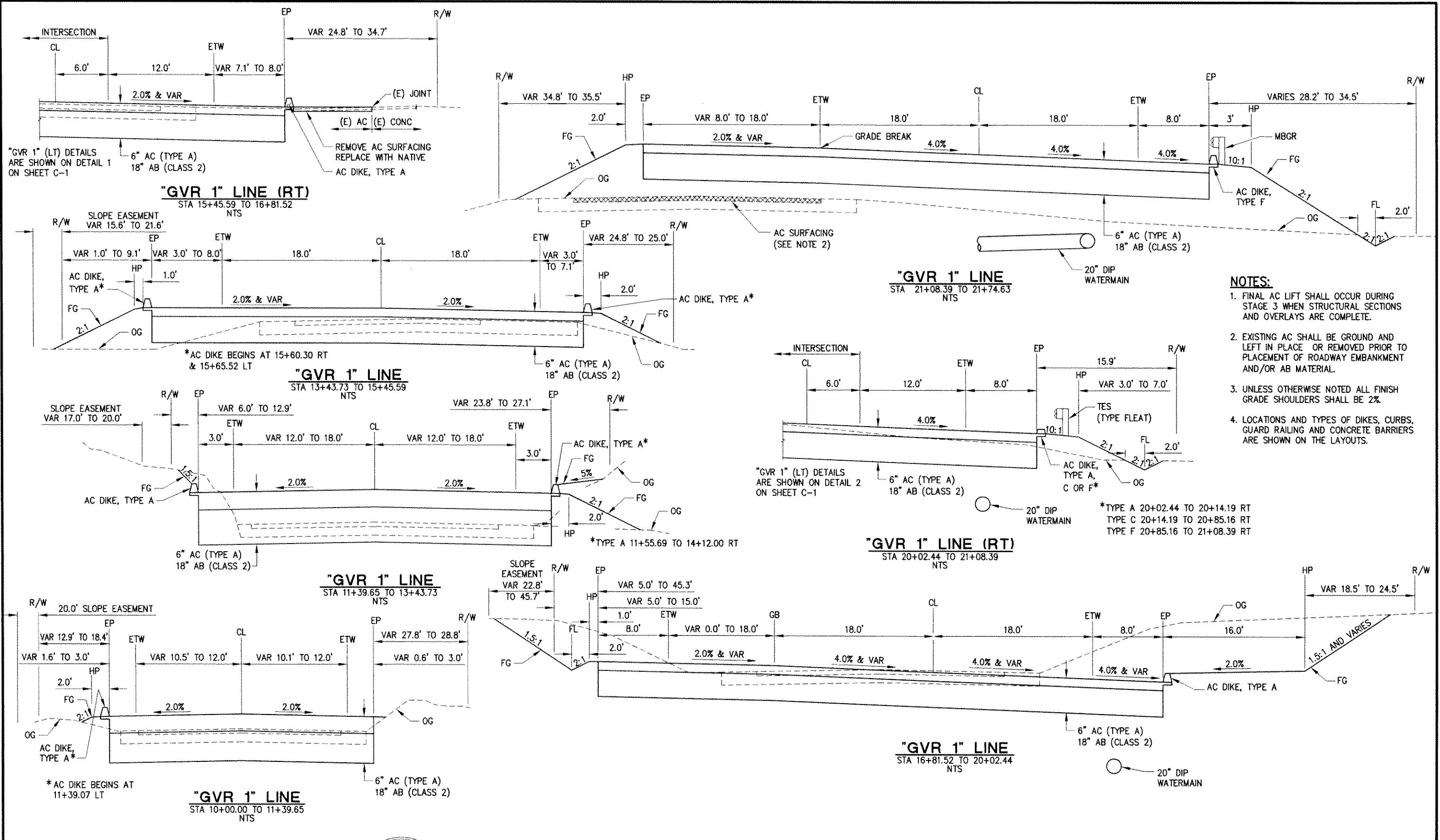


**EL DORADO COUNTY**  
DEPARTMENT OF TRANSPORTATION

**GREEN VALLEY ROAD AT TENNESSEE CREEK**  
BRIDGE REPLACEMENT PROJECT  
SURVEY CONTROL

SHEET  
**SC-1**  
2 OF 61  
W.D. No. 77109

Drawing name: C:\Civil 3D Projects\77109 Tennessee Creek\CADD Files\Sheets\X-1.dwg Layout Tab: X-1 Dec 14, 2010 - 4:08pm D:\Harrington



- NOTES:**
1. FINAL AC LIFT SHALL OCCUR DURING 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.

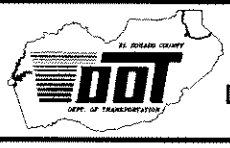
\*TYPE A 20+02.44 TO 20+14.19 RT  
 TYPE C 20+14.19 TO 20+85.16 RT  
 TYPE F 20+85.16 TO 21+08.39 RT

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
 [Signature]  
 REGISTERED CIVIL ENGINEER  
 DATE: 11/2/10

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

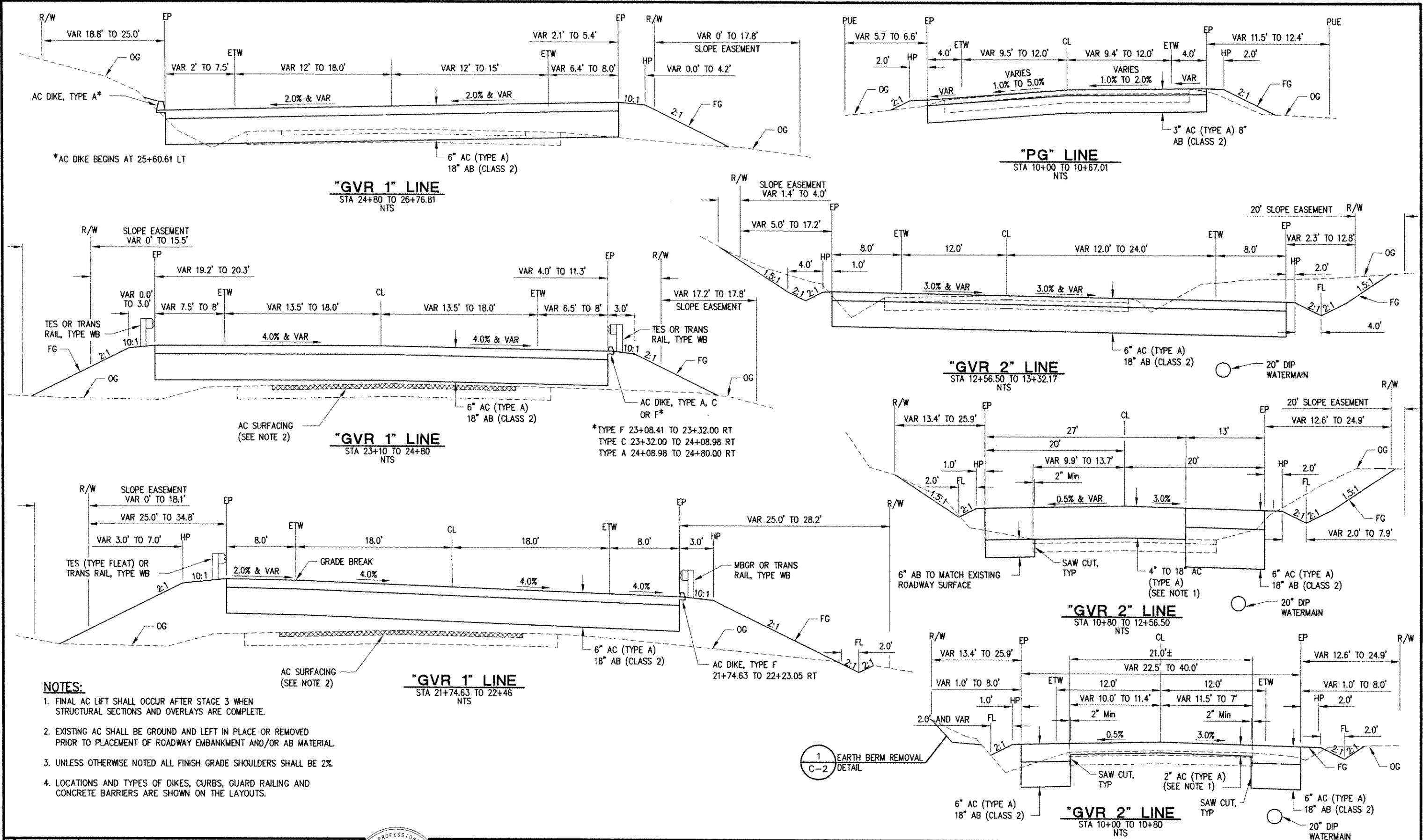


**EL DORADO COUNTY**  
 DEPARTMENT OF TRANSPORTATION

**GREEN VALLEY ROAD AT TENNESSEE CREEK**  
 BRIDGE REPLACEMENT PROJECT  
 TYPICAL SECTIONS

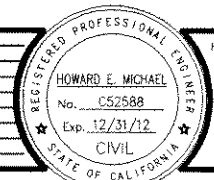
SHEET  
**X-1**  
 3 OF 61  
 W.D. No. 77109

Drawing name: C:\Civil 3D Projects\77109 Tennessee Creek\CADD Files\Sheets\X-2.dwg Layout Tab: X-2 Dec 22, 2010 - 12:51pm Abjstrop



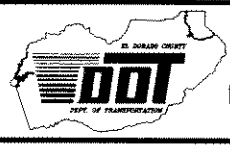
- NOTES:**
1. FINAL AC LIFT SHALL OCCUR AFTER STAGE 3 WHEN STRUCTURAL SECTIONS AND OVERLAYS ARE COMPLETE.
  2. EXISTING AC SHALL BE GROUND AND LEFT IN PLACE OR REMOVED PRIOR TO PLACEMENT OF ROADWAY EMBANKMENT AND/OR AB MATERIAL.
  3. UNLESS OTHERWISE NOTED ALL FINISH GRADE SHOULDERS SHALL BE 2%.
  4.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

REVISION	NUMBER	DATE	DESCRIPTION	BY



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

DESIGNED: M.J.M.  
 DRAWN: M.J.M.  
 CHECKED: H.E.M.  
 DATE: 5/03/10  
 ROAD NUMBER: 000



**EL DORADO COUNTY**  
**DEPARTMENT OF TRANSPORTATION**

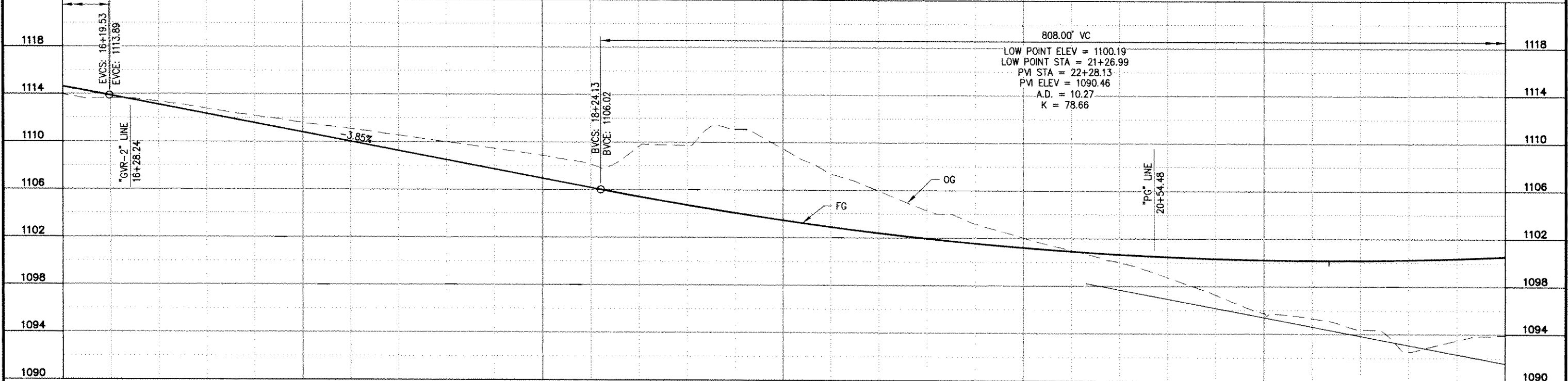
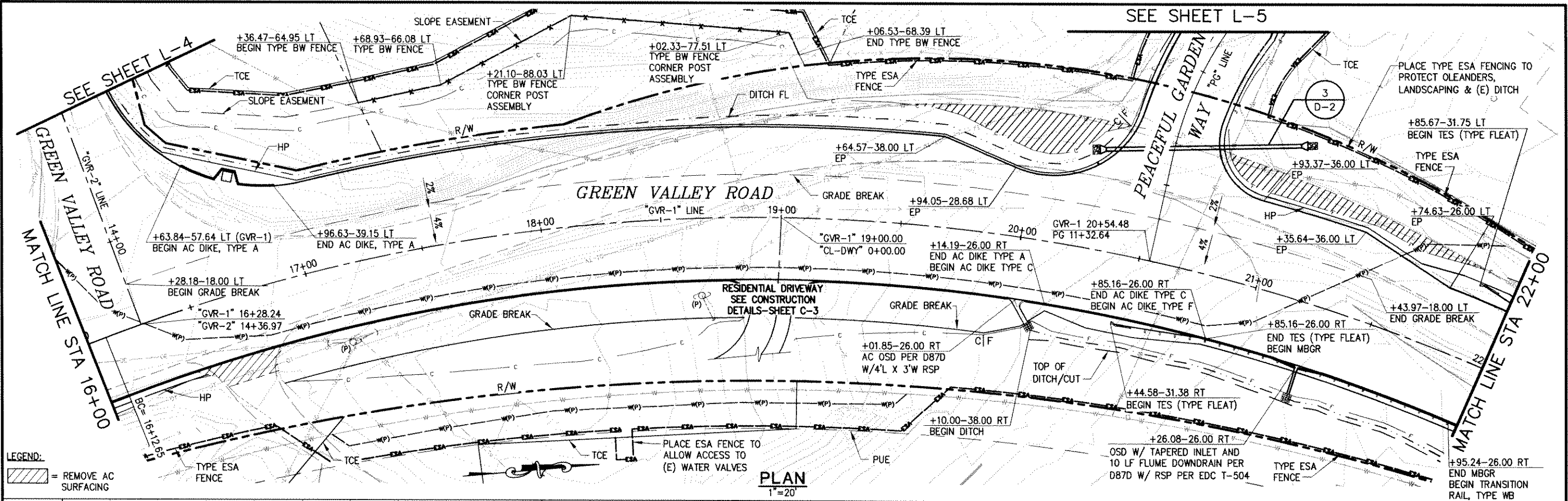
**GREEN VALLEY ROAD AT TENNESSEE CREEK**  
**BRIDGE REPLACEMENT PROJECT**  
**TYPICAL SECTIONS**

SHEET  
**X-2**  
 4 OF 61  
 W.O. No. 77109





Drawing name: C:\Civil 3D\Projects\77109 Tennessee Creek\CADD Files\Sheets\L-2.dwg Layout Tab: L-2 Dec 14, 2010 - 4:07pm D:\harrington  
 ORIGINAL SCALE IS IN INCHES  
 FOR REDUCED PLANS



<b>REVISION</b>								
NUMBER	DATE	DESCRIPTION	BY					DATE

REGISTERED PROFESSIONAL ENGINEER  
HOWARD E. MICHAEL  
No. CS2588  
Exp. 12/31/12  
CIVIL

PREPARED UNDER THE SUPERVISION OF:

REGISTERED CIVIL ENGINEER  
11/2/10

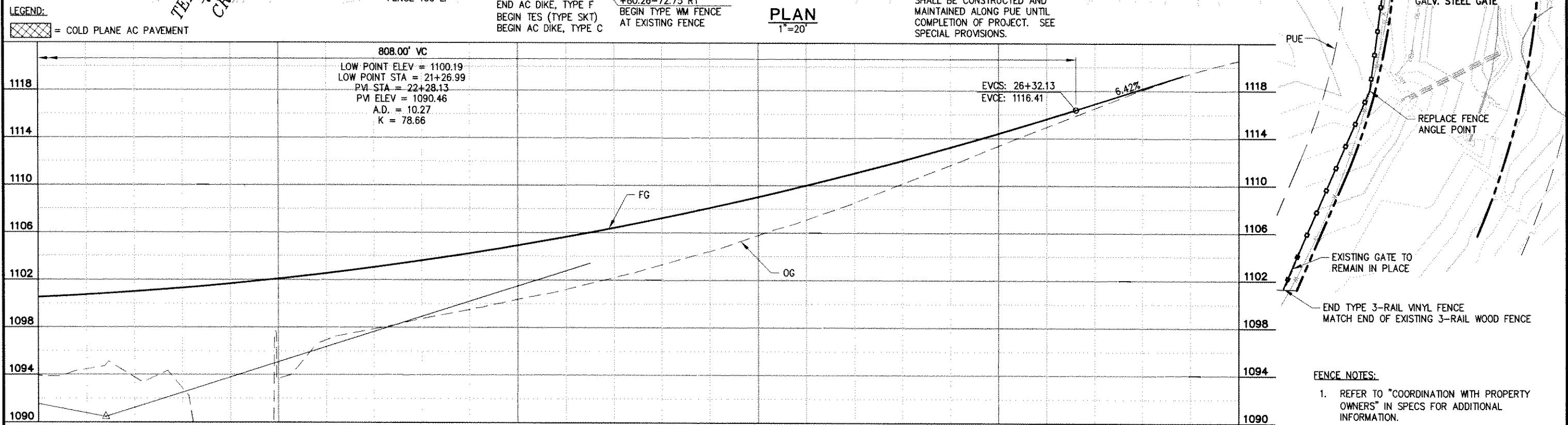
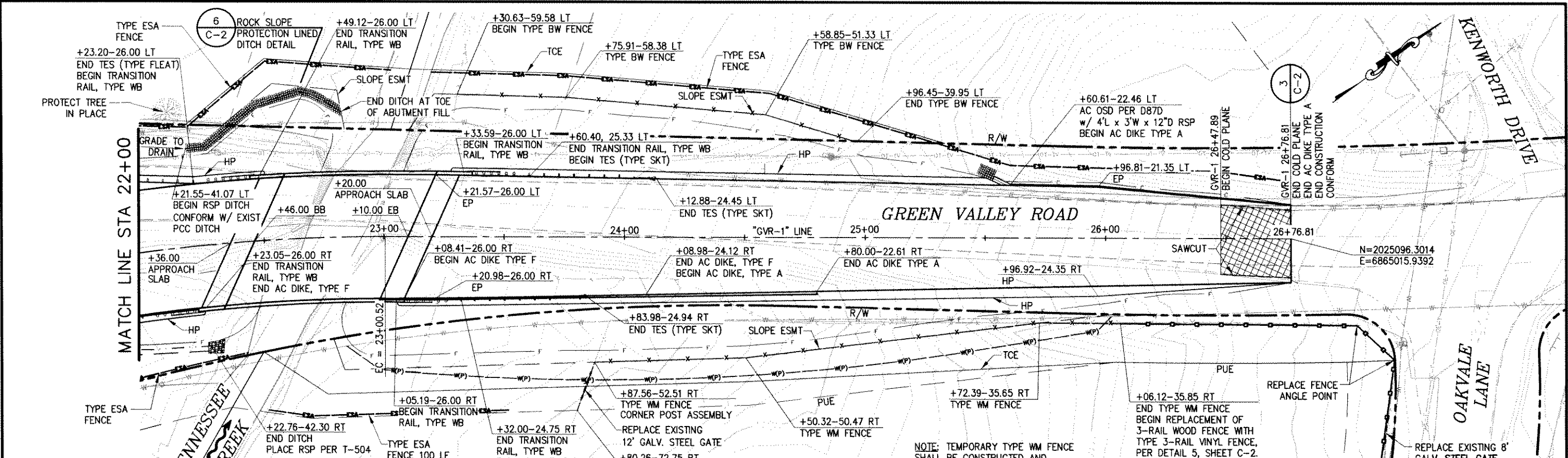
DESIGNED: M.J.M.  
DRAWN: M.J.M.  
CHECKED: H.E.M.  
DATE: 05/03/10  
ROAD NUMBER: 000

EL DORADO COUNTY  
DEPARTMENT OF TRANSPORTATION

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

SHEET  
L-2  
6 OF 61  
W.D. No. 77109

Drawing name: C:\Civil 3D\Projects\77109 Tennessee Creek\CADD Files\Sheets\L-3.dwg Layout Tab: L-3 Dec 14, 2010 - 4:04pm D:\arrington  
 ORIGINAL SCALE IS IN INCHES  
 FOR REDUCED PLANS

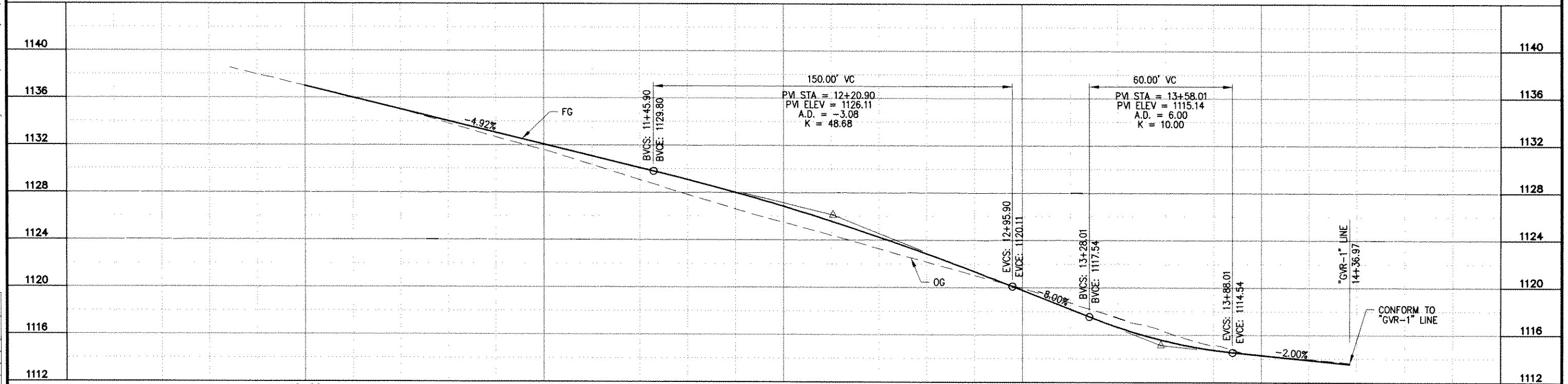
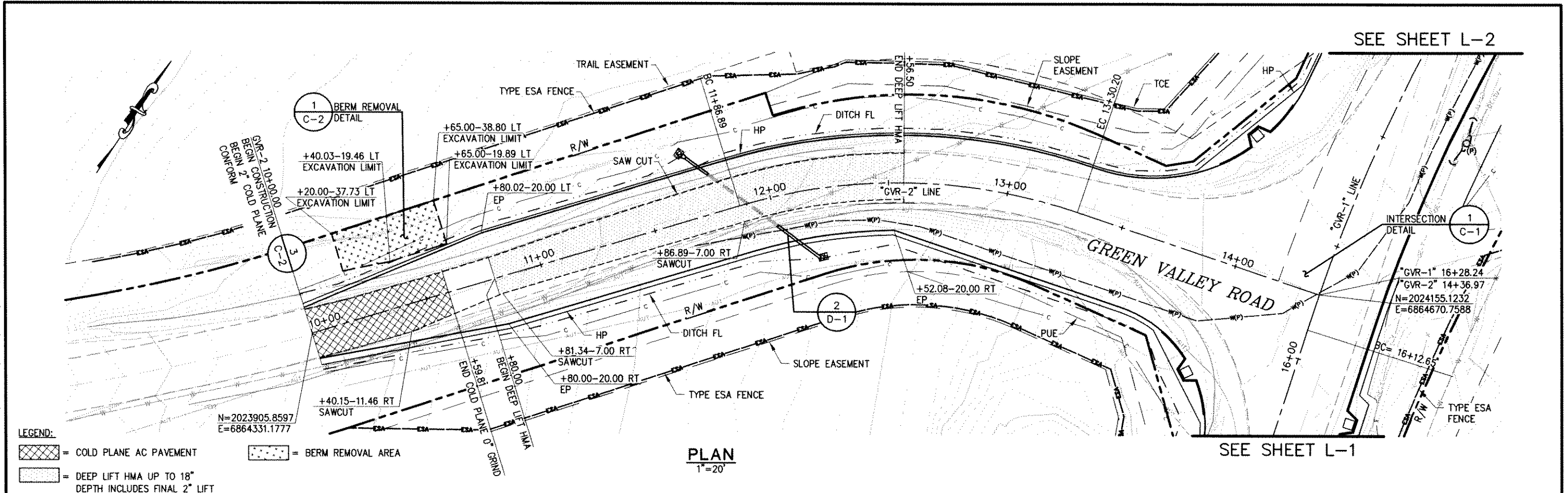


REVISION NUMBER    DATE    DESCRIPTION    BY		PREPARED UNDER THE SUPERVISION OF:  REGISTERED CIVIL ENGINEER    DATE: 11/2/10	DESIGNED: M.J.M. CHECKED: H.E.M. ROAD NUMBER: 000	DRAWN: M.J.M. DATE: 05/03/10		<b>EL DORADO COUNTY</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>GREEN VALLEY ROAD AT TENNESSEE CREEK</b> <b>BRIDGE REPLACEMENT PROJECT</b> <b>PLAN AND PROFILE</b>	SHEET <b>L-3</b> 7 OF 61 W.D. No. 77109
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**FENCE NOTES:**

- REFER TO "COORDINATION WITH PROPERTY OWNERS" IN SPECS FOR ADDITIONAL INFORMATION.

Drawing name: C:\Civil 3D Projects\77109 Tennessee Creek\CADD Files\Sheets\L-4.dwg Layout Tab: L4 Dec 22, 2010 1:01pm Abishop

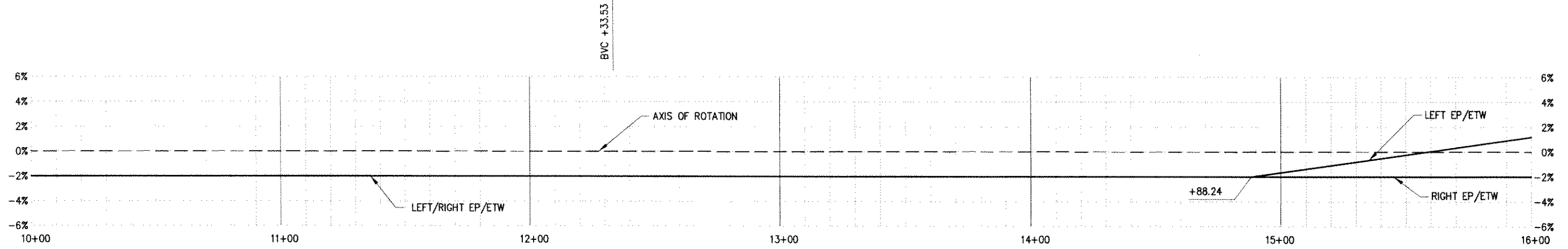


<p>REVISION</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>NUMBER</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	NUMBER	DATE	DESCRIPTION	BY						<p>PREPARED UNDER THE SUPERVISION OF:</p> <p>REGISTERED CIVIL ENGINEER          DATE: 11/2/10</p>	<p>DESIGNED: M.J.M.          DRAWN: M.J.M.          CHECKED: H.E.M.          DATE: 05/03/10          ROAD NUMBER: 000</p>	<p><b>EL DORADO COUNTY</b>          DEPARTMENT OF TRANSPORTATION</p>	<p><b>GREEN VALLEY ROAD AT TENNESSEE CREEK</b>          BRIDGE REPLACEMENT PROJECT          PLAN AND PROFILE</p>	<p>SHEET  <b>L-4</b>          8 OF 61          W.O. No. 77109</p>
NUMBER	DATE	DESCRIPTION	BY											

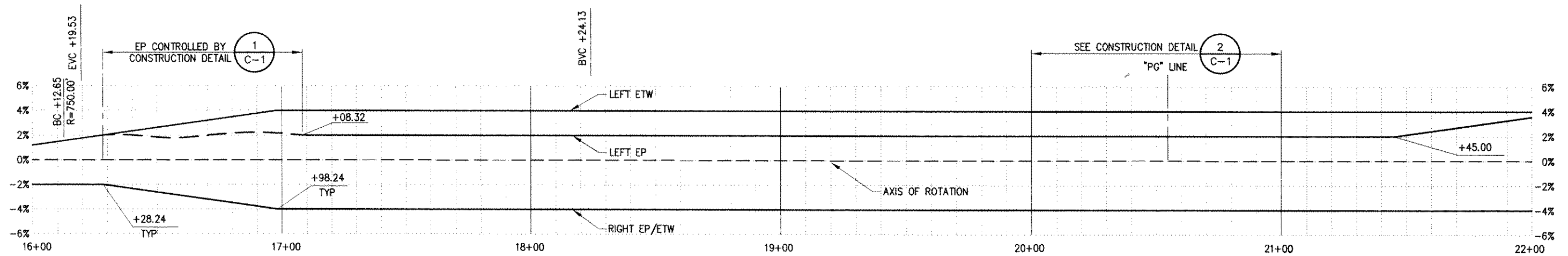




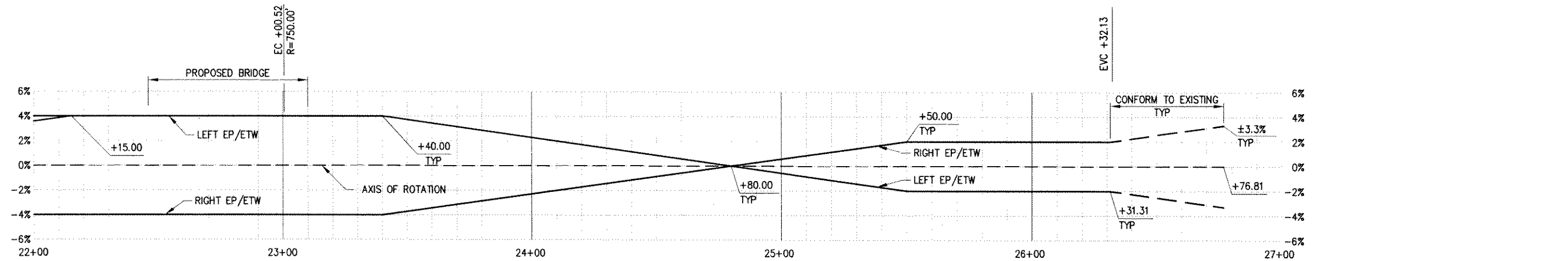
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"GVR-1"



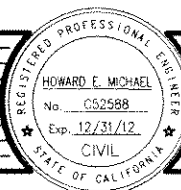
"GVR-1"



"GVR-1"

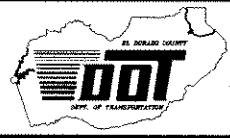
SCALE: HORIZ 1"=20'

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
  
 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



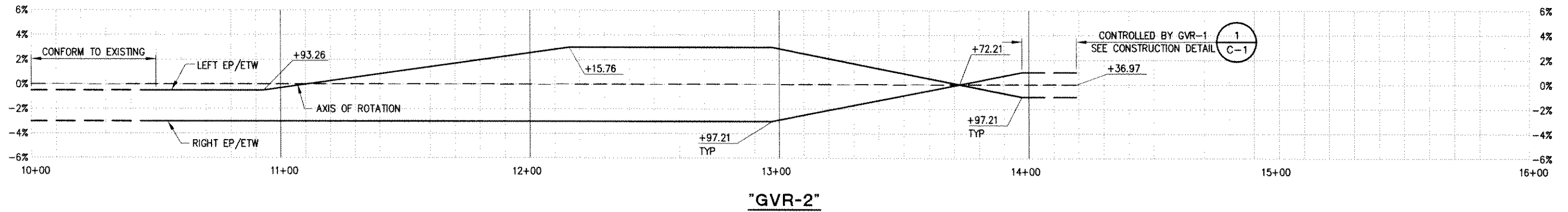
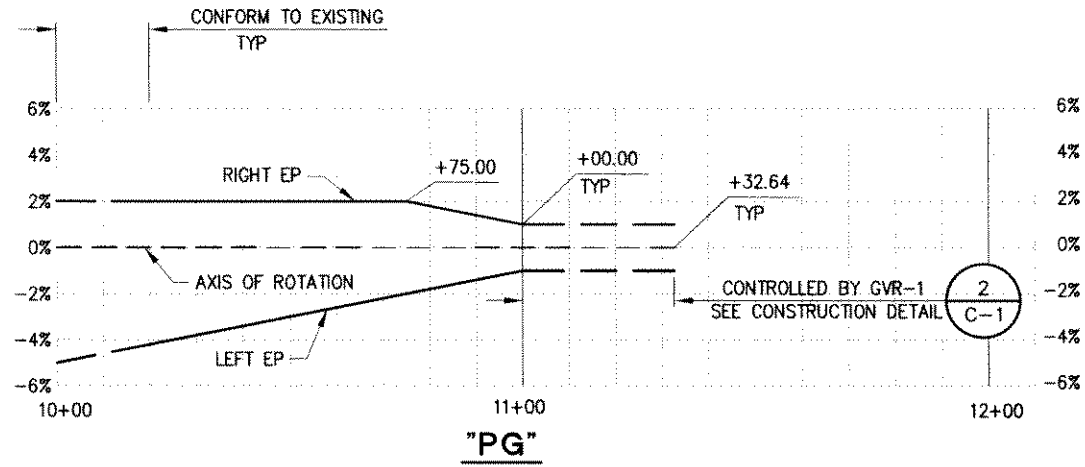
EL DORADO COUNTY  
 DEPARTMENT OF TRANSPORTATION

GREEN VALLEY ROAD AT TENNESSEE CREEK  
 BRIDGE REPLACEMENT PROJECT  
 SUPERELEVATION DIAGRAM

SHEET  
 SE-1  
 10 OF 61  
 W.D. No. 77109

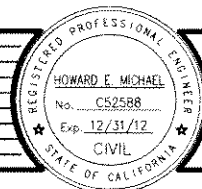
Drawing name: C:\Civil 3D\Projects\77109 Tennessee Creek\CADD Files\Sheets\SE-2.dwg Layout: Tab: SE-2 Dec 10, 2010 4:43pm DHarrington

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES



SCALE: HORIZ 1"=20'

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:

*Howard E. Michael*

REGISTERED CIVIL ENGINEER

5/20/10

DESIGNED: M.J.M. DRAWN: M.J.M.

CHECKED: H.E.M. DATE: 05/03/10

ROAD NUMBER: 000

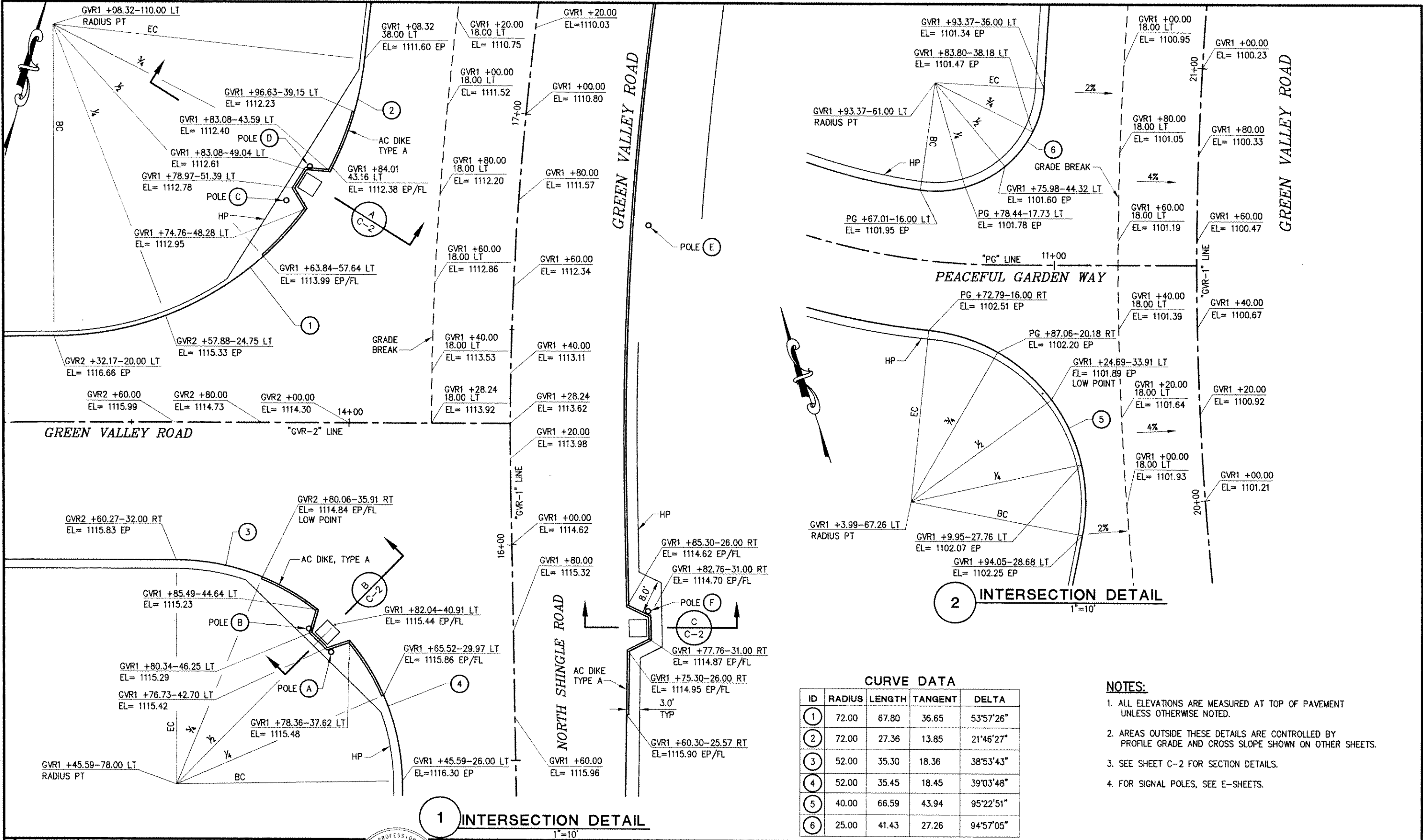


EL DORADO COUNTY  
DEPARTMENT OF TRANSPORTATION

GREEN VALLEY ROAD AT TENNESSEE CREEK  
BRIDGE REPLACEMENT PROJECT  
SUPERELEVATION DIAGRAM

SHEET  
SE-2  
11 OF 61  
W.O. No. 77109

Drawing name: C:\Civil 3D Projects\7109 Tennessee Creek\CADD Files\Sheets\C-1.dwg Layout Tab: C-1 Dec 10, 2010 - 4:46pm Dharrington  
 ORIGINAL SCALE IS IN INCHES  
 FOR REDUCED PLANS



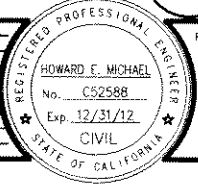
**2 INTERSECTION DETAIL**  
1"=10'

**1 INTERSECTION DETAIL**  
1"=10'

CURVE DATA				
ID	RADIUS	LENGTH	TANGENT	DELTA
①	72.00	67.80	36.65	53°57'26"
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	66.59	43.94	95°22'51"
⑥	25.00	41.43	27.26	94°57'05"

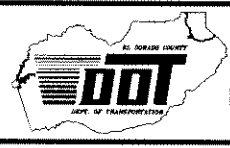
- NOTES:**
- ALL ELEVATIONS ARE MEASURED AT TOP OF PAVEMENT UNLESS OTHERWISE NOTED.
  - AREAS OUTSIDE THESE DETAILS ARE CONTROLLED BY PROFILE GRADE AND CROSS SLOPE SHOWN ON OTHER SHEETS.
  - SEE SHEET C-2 FOR SECTION DETAILS.
  - FOR SIGNAL POLES, SEE E-SHEETS.

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
  
 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

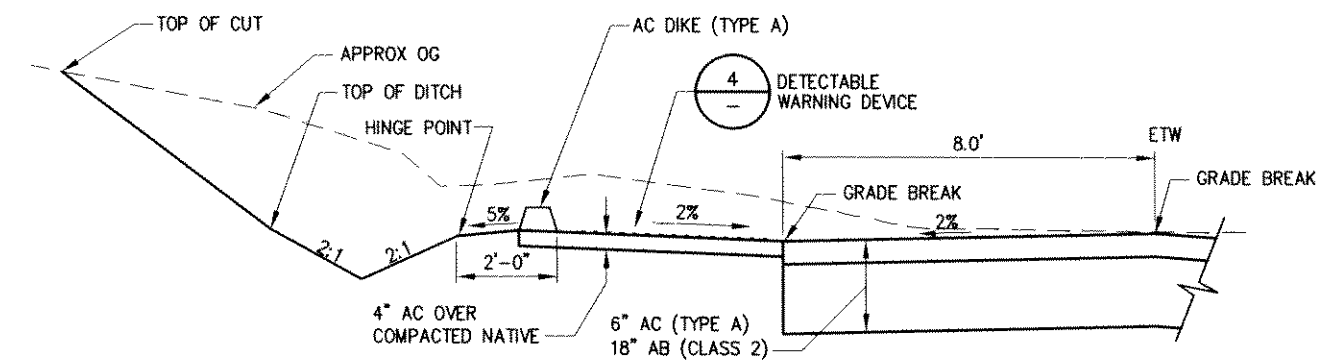


**EL DORADO COUNTY**  
**DEPARTMENT OF TRANSPORTATION**

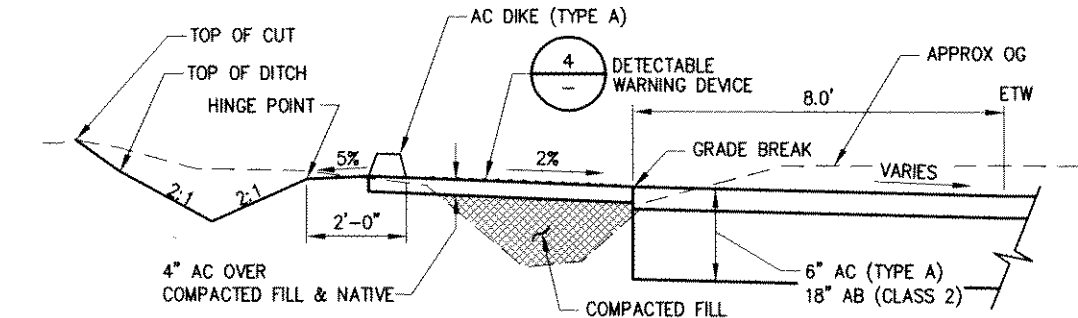
**GREEN VALLEY ROAD AT TENNESSEE CREEK**  
**BRIDGE REPLACEMENT PROJECT**  
**CONSTRUCTION DETAILS**

SHEET  
**C-1**  
 12 OF 61  
 W.D. No. **77109**

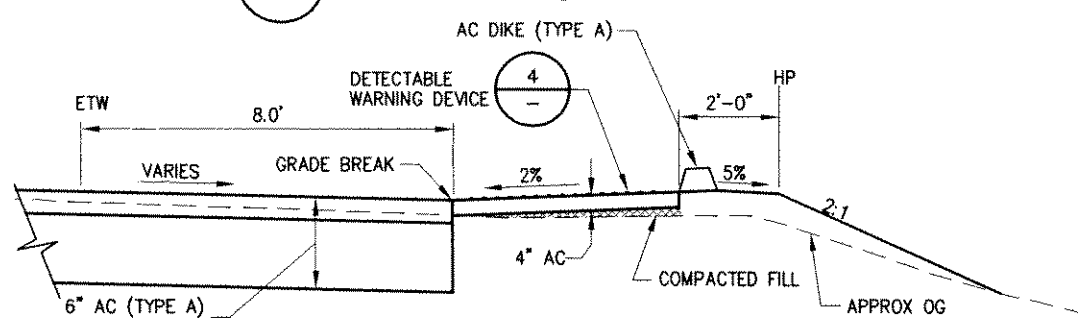
Drawing name: C:\Civl\_3D\Projects\77109 Tennessee Creek\CADD Files\Sheets\C-2.dwg Layout Tab: C2 Dec 22, 2010 - 12:46pm Abishop  
 ORIGINAL SCALE IS IN INCHES  
 FOR REDUCED PLANS



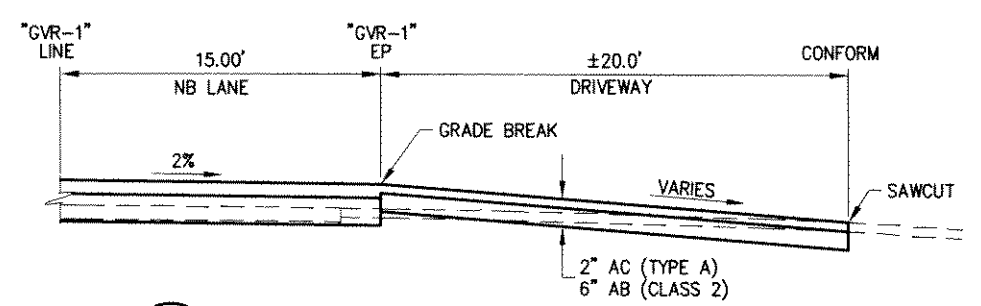
**A** NORTHWEST PEDESTRIAN REFUGE SECTION  
NTS



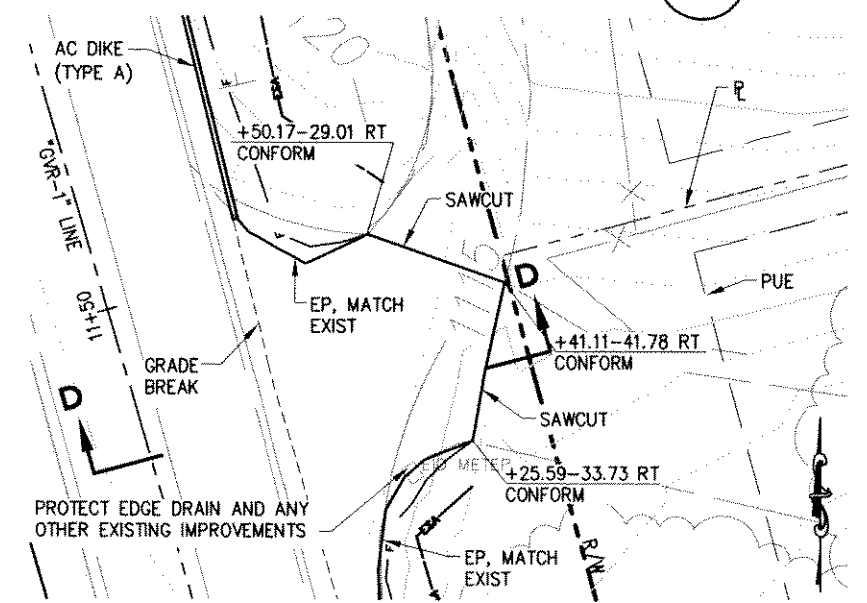
**B** SOUTHWEST PEDESTRIAN REFUGE SECTION  
NTS



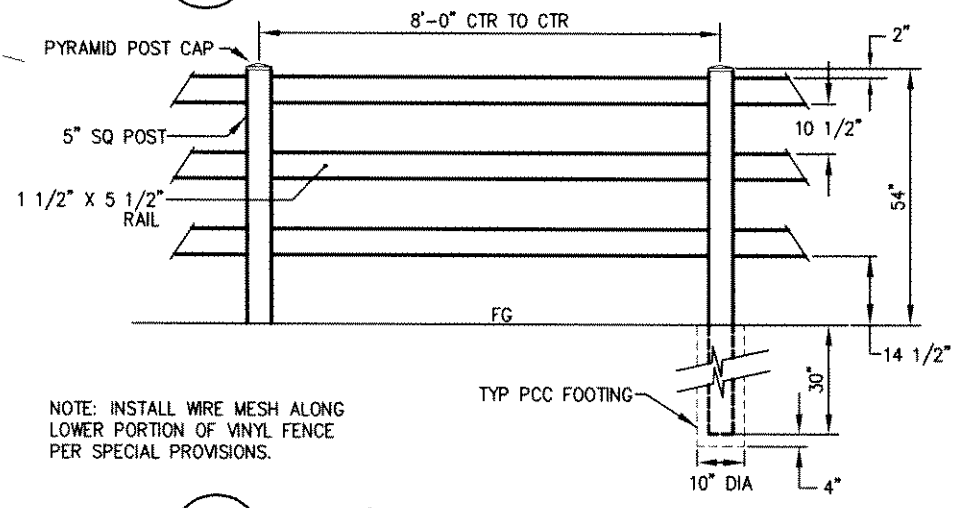
**C** SOUTHEAST PEDESTRIAN REFUGE SECTION  
NTS



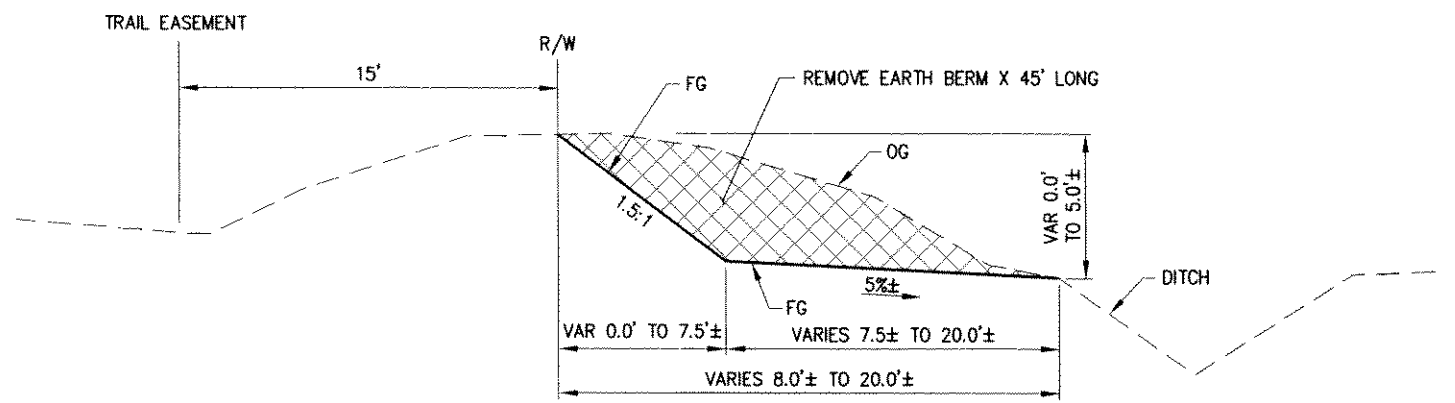
**D-D** DRIVEWAY CONFORM SECTION  
NTS



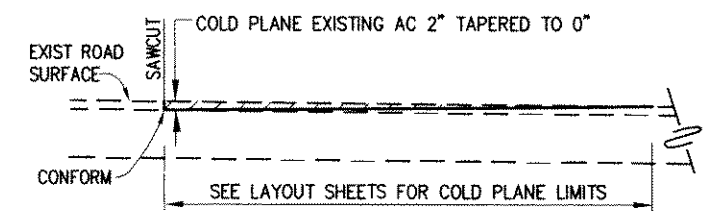
**2** DRIVEWAY CONFORM DETAIL  
SCALE: 1"=10'



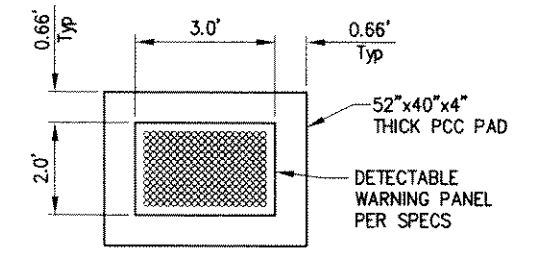
**5** 3-RAIL VINYL FENCE  
NTS



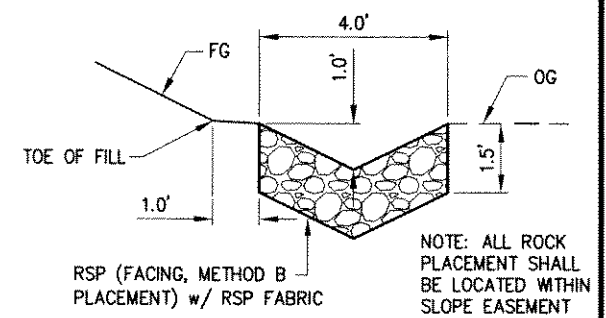
**1** EARTH BERM REMOVAL DETAIL  
STA "GVR-2" 10+20 TO 10+65 (LT)  
NTS



**3** COLD PLANE DETAIL  
NTS



**4** TRUNCATED DOME PANEL DETAIL  
NTS



**6** ROCK SLOPE PROTECTION LINED DITCH DETAIL  
NTS

REVISION NUMBER DATE DESCRIPTION BY		PREPARED UNDER THE SUPERVISION OF:  REGISTERED CIVIL ENGINEER DATE: 11/2/10	DESIGNED: M.J.M. CHECKED: H.E.M. ROAD NUMBER: 000	DRAWN: M.J.M. DATE: 05/03/10		EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION	GREEN VALLEY ROAD AT TENNESSEE CREEK BRIDGE REPLACEMENT PROJECT CONSTRUCTION DETAILS	SHEET C-2 13 OF 61 W.O. No. 77109
		STATE OF CALIFORNIA						



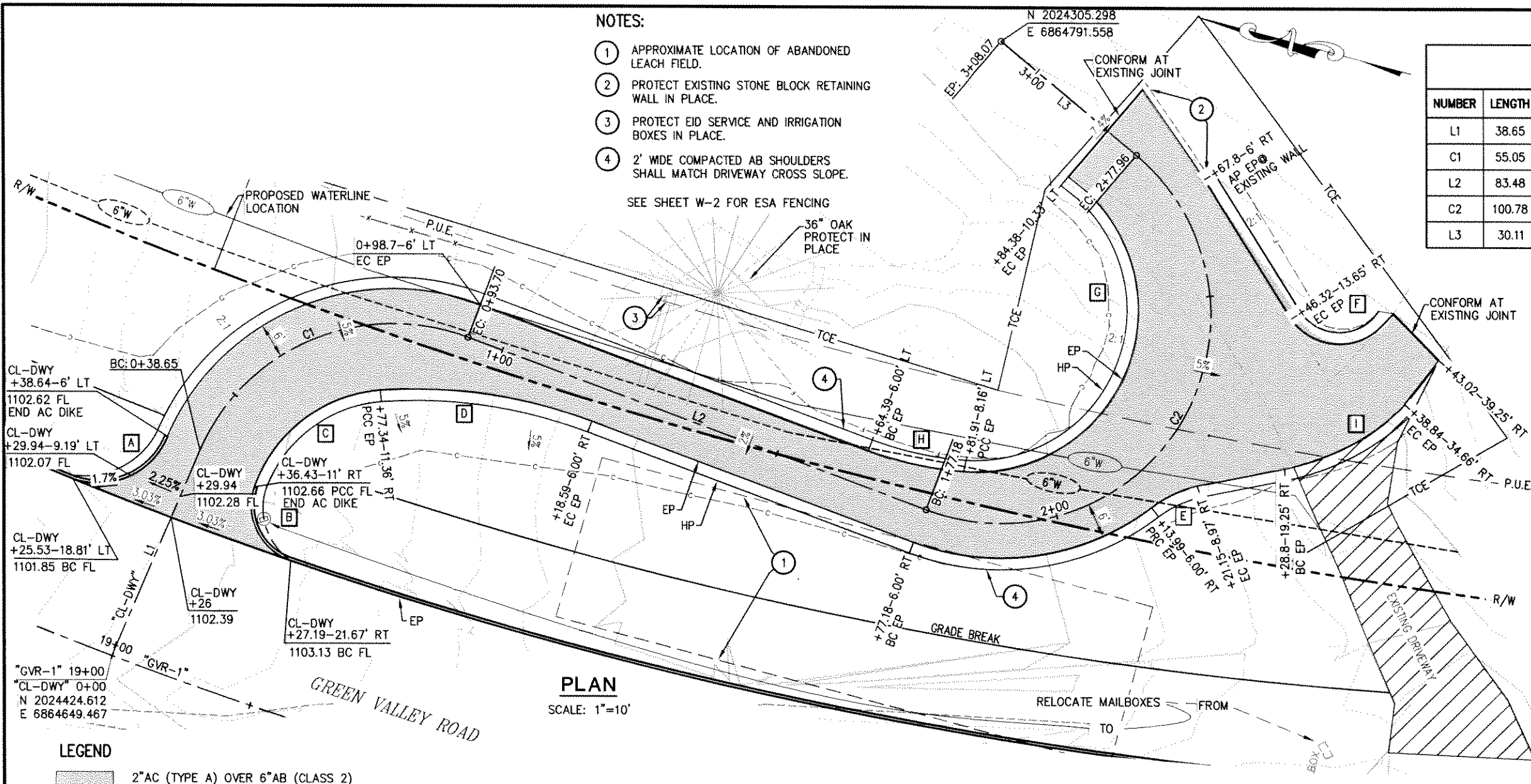
Drawing name: C:\Civil 3D\Projects\7109 Tennessee Creek\Drawings\MASTER DRIVEWAY.dwg Layout Tab: DWY PLAN 10 SCALE Dec 15, 2010 - 2:10

**NOTES:**

- 1 APPROXIMATE LOCATION OF ABANDONED LEACH FIELD.
- 2 PROTECT EXISTING STONE BLOCK RETAINING WALL IN PLACE.
- 3 PROTECT EID SERVICE AND IRRIGATION BOXES IN PLACE.
- 4 2' WIDE COMPACTED AB SHOULDERS SHALL MATCH DRIVEWAY CROSS SLOPE.

SEE SHEET W-2 FOR ESA FENCING

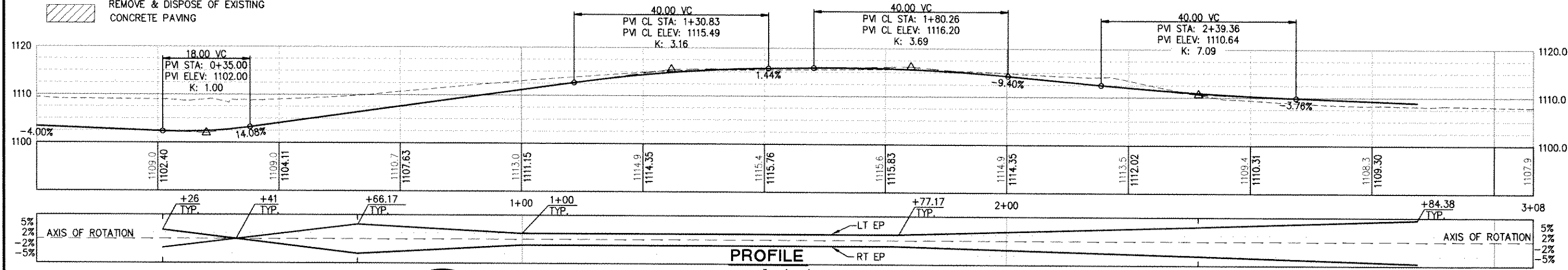
CL DRIVEWAY				
NUMBER	LENGTH	RADIUS	LINE / CHORD DIRECTION & LENGTH	DELTA
L1	38.65		S 81° 58' 41" E	
C1	55.05	36.00	S 38° 10' 05" E - 49.84	87° 37' 12"
L2	83.48		S 5° 38' 31" W	
C2	100.78	36.00	S 74° 33' 22" E - 70.95	160° 23' 46"
L3	30.11		N 25° 14' 45" E	



EP CURVE DATA				
CURVE	LENGTH	RADIUS	DELTA	RAD. PT. STA/OFFSET
A	20.39'	12.89'	90° 36' 07"	0+38.43-18.89' LT
B	15.71'	10.00'	90° 00' 00"	0+37.17-20.98' RT
C	28.86'	25.00'	66° 09' 00"	0+38.20-35.96' RT
D	36.84'	85.00'	24° 50' 11"	1+18.59-91.00' RT
E	9.21'	20.00'	26° 23' 33"	2+13.99-26.00' RT
F	17.91'	9.93'	103° 16' 20"	2+49.85-22.08' RT
G	68.81'	28.00'	140° 48' 29"	1+72.81-35.23' LT
H	16.67'	57.40'	16° 38' 30"	2+99.2-14.47' LT
I	23.56'	40.00'	33° 45' 19"	2+57.73-6.54' RT

**PLAN**  
SCALE: 1"=10'

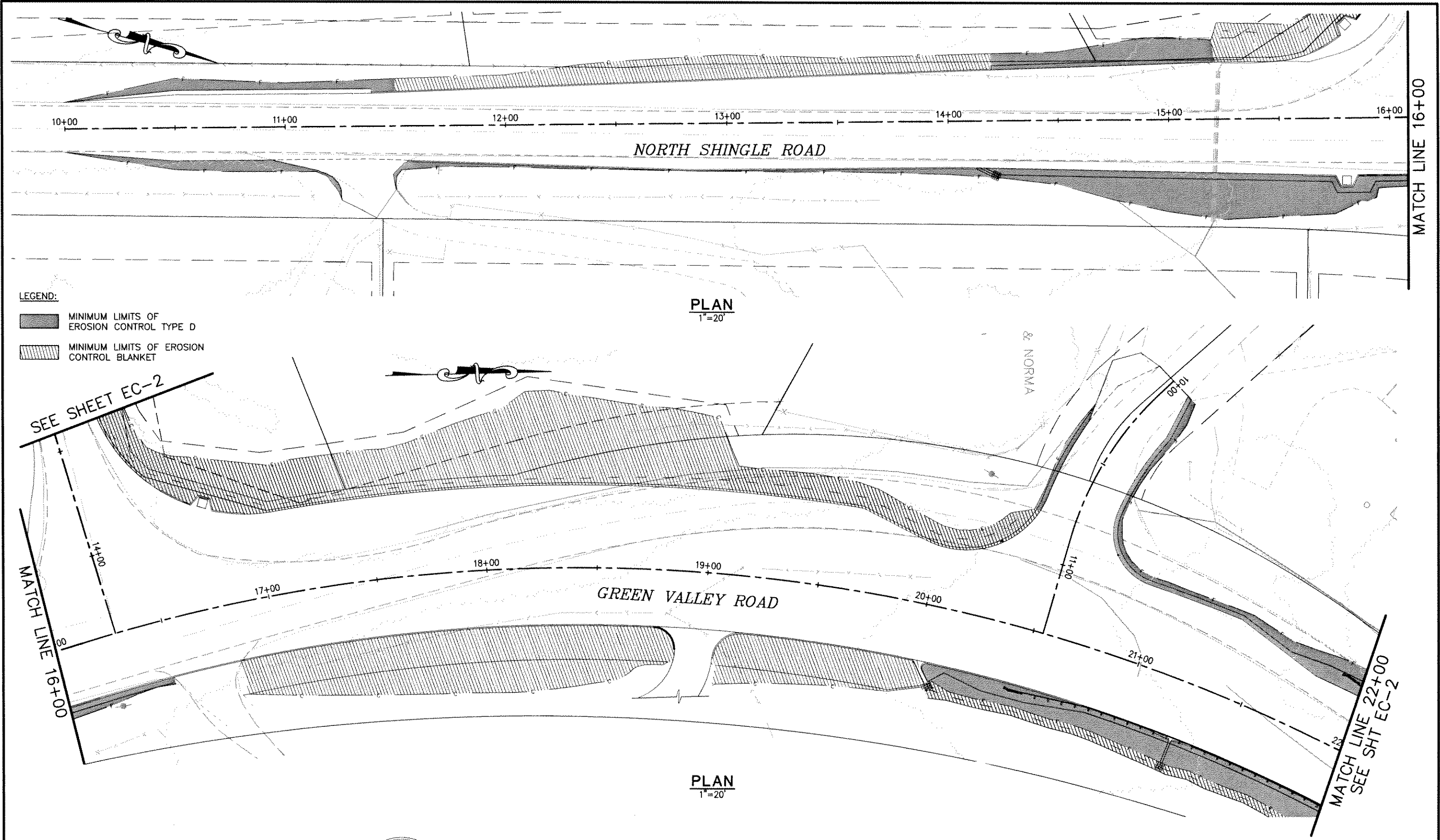
- LEGEND**
- 2"AC (TYPE A) OVER 6"AB (CLASS 2)
  - REMOVE & DISPOSE OF EXISTING CONCRETE PAVING



**PROFILE**  
SCALE: 1"=10'V, 20'H

<p>REVISION</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NUMBER</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	NUMBER	DATE	DESCRIPTION	BY						<p>PREPARED UNDER THE SUPERVISION OF:</p> <p><i>[Signature]</i></p> <p>REGISTERED CIVIL ENGINEER</p> <p>DATE: 11/2/10</p>	<p>DESIGNED: DH</p> <p>DRAWN: RR</p> <p>CHECKED: DH</p> <p>DATE: 05/03/10</p> <p>ROAD NUMBER:</p>	<p><b>EL DORADO COUNTY</b> DEPARTMENT OF TRANSPORTATION</p>	<p><b>GREEN VALLEY ROAD AT TENNESSEE CREEK</b> BRIDGE REPLACEMENT PROJECT</p> <p><b>CONSTRUCTION DETAILS</b></p>	<p>SHEET</p> <p><b>C-3</b></p> <p>14 OF 61</p> <p>77109</p>
NUMBER	DATE	DESCRIPTION	BY											

Drawing name: C:\Civil 3D\Projects\77109 Tennessee Creek\CADD Files\Sheets\EC-1.dwg Layout Tab: EC-1 Dec 14, 2010 3:50pm DHarrington  
 ORIGINAL SCALE IS IN INCHES  
 FOR REDUCED PLANS



**LEGEND:**

- MINIMUM LIMITS OF EROSION CONTROL TYPE D
- MINIMUM LIMITS OF EROSION CONTROL BLANKET

SEE SHEET EC-2

MATCH LINE 16+00

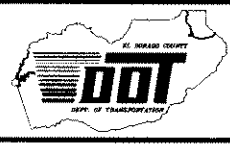
MATCH LINE 22+00  
SEE SHT EC-2

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
  
 REGISTERED CIVIL ENGINEER  
 DATE: 11/2/10

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



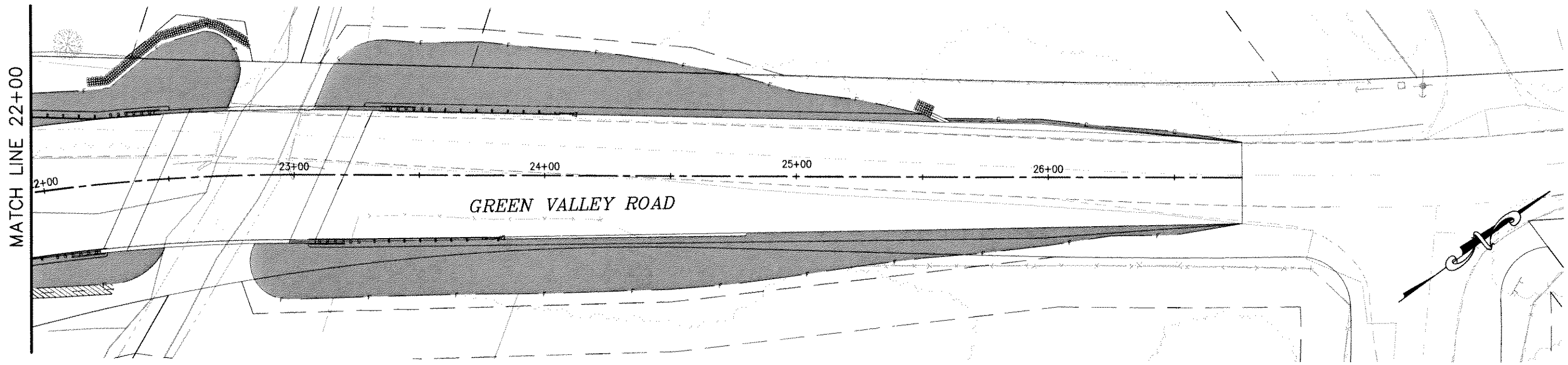
**EL DORADO COUNTY**  
 DEPARTMENT OF TRANSPORTATION

**GREEN VALLEY ROAD AT TENNESSEE CREEK  
 BRIDGE REPLACEMENT PROJECT  
 EROSION CONTROL PLAN**

SHEET  
**EC-1**  
 15 OF 61  
 W.D. No. 77109

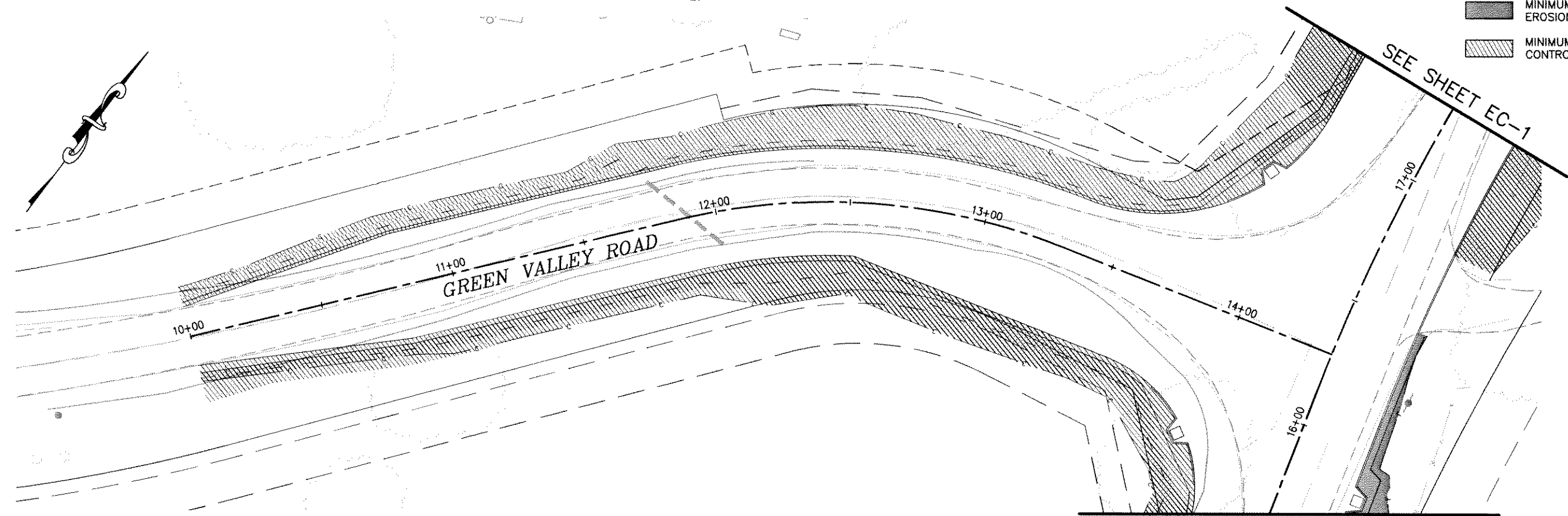
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FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES



**PLAN**  
1"=20'

- LEGEND:**
- MINIMUM LIMITS OF EROSION CONTROL TYPE D
  - MINIMUM LIMITS OF EROSION CONTROL BLANKET



**PLAN**  
1"=20'

SEE SHEET EC-1

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
  
 REGISTERED CIVIL ENGINEER  
 DATE: 11/2/10

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

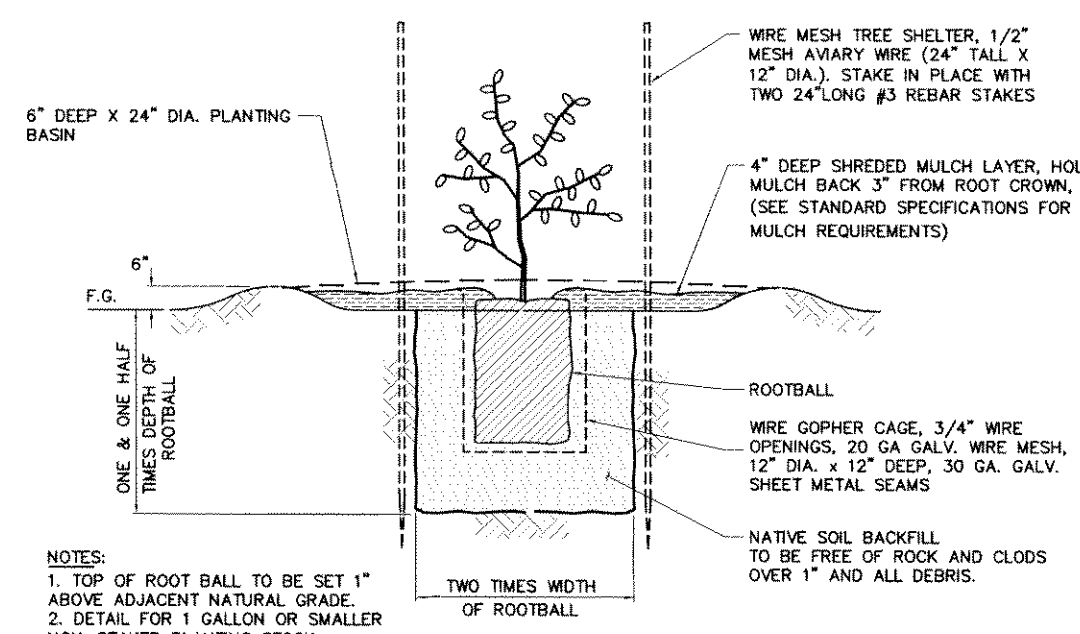


**EL DORADO COUNTY**  
**DEPARTMENT OF TRANSPORTATION**

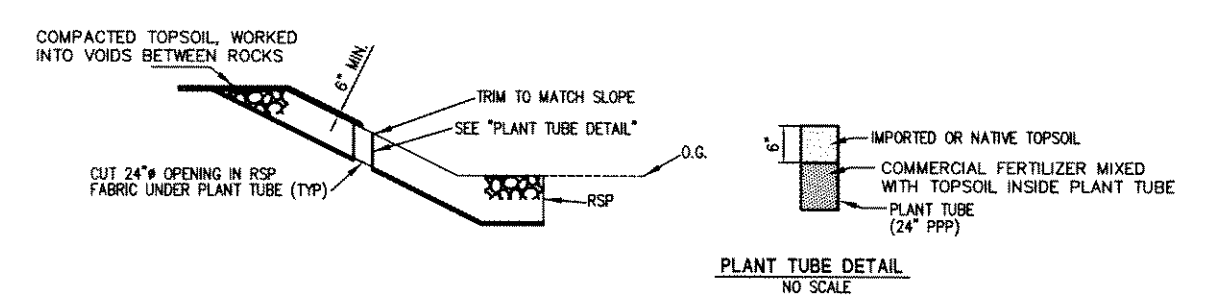
**GREEN VALLEY ROAD AT TENNESSEE CREEK**  
**BRIDGE REPLACEMENT PROJECT**  
**EROSION CONTROL PLAN**

SHEET  
**EC-2**  
 16 OF 61  
 W.O. No. 77109

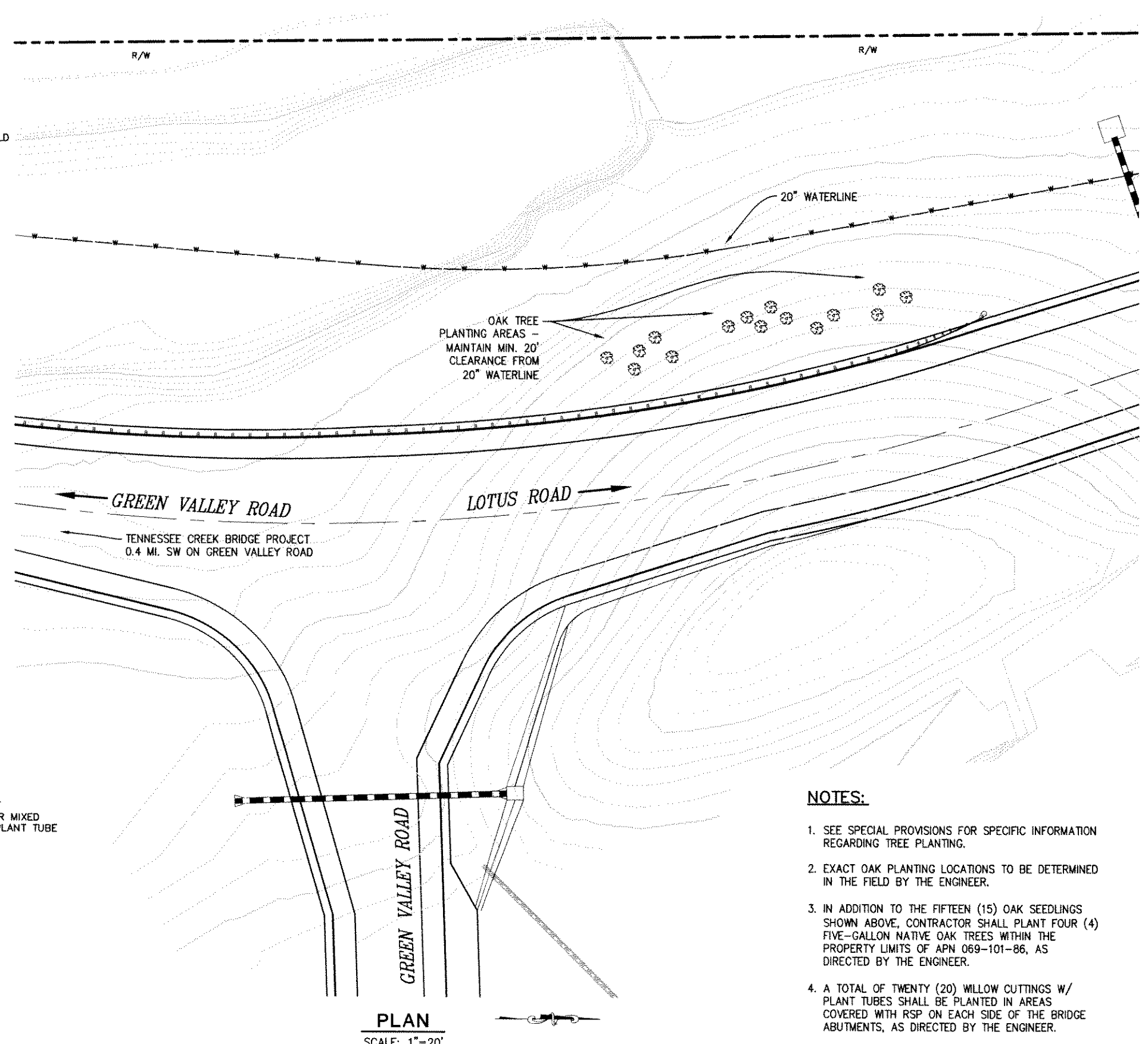
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 FOR REDUCED PLANS  
 REVISION



**OAK PLANTING DETAIL**  
NO SCALE



**WILLOW CUTTINGS PLANT TUBE LOCATION DETAIL**  
NO SCALE



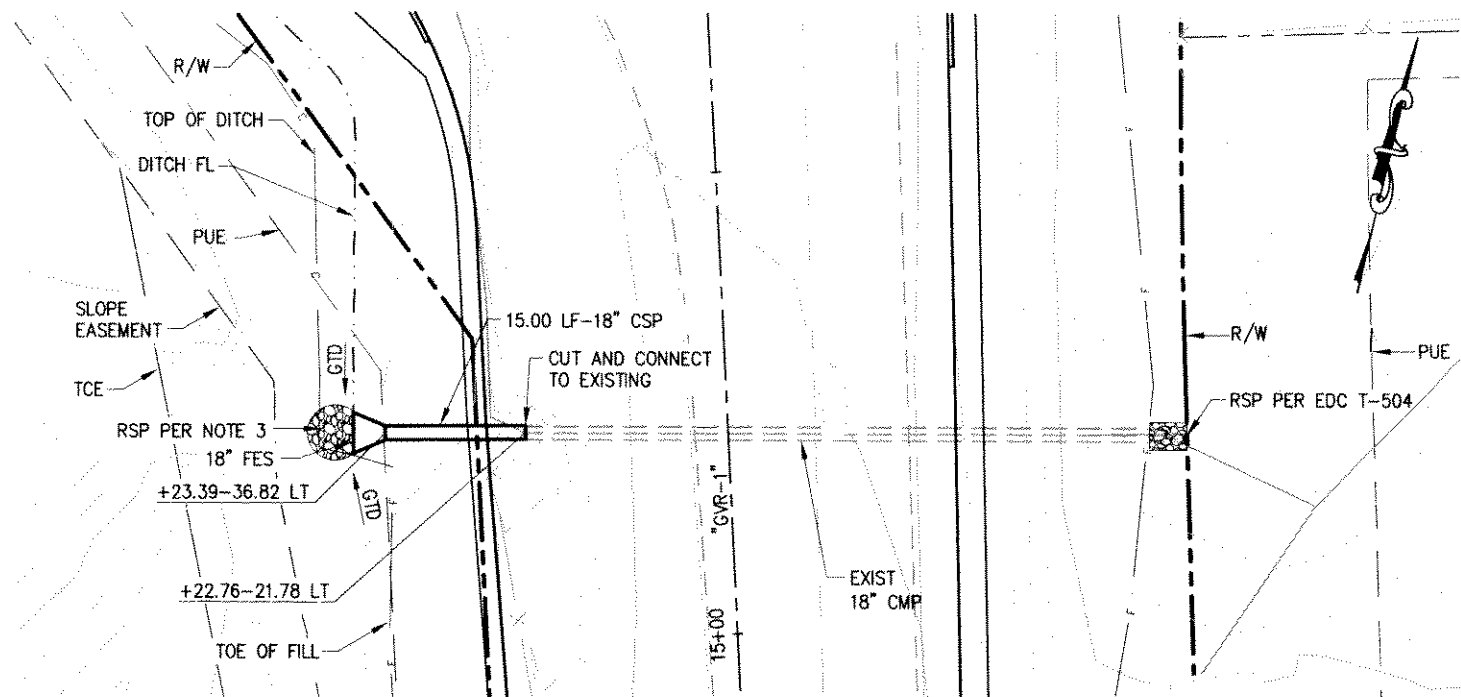
**PLAN**  
SCALE: 1"=20'

- NOTES:**
- SEE SPECIAL PROVISIONS FOR SPECIFIC INFORMATION REGARDING TREE PLANTING.
  - EXACT OAK PLANTING LOCATIONS TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
  - 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 069-101-86, AS DIRECTED BY THE ENGINEER.
  - 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:  REGISTERED CIVIL ENGINEER No. C71517 License Expires 12-31-11 DATE: 5/20/10		DESIGNED: DWH CHECKED: JPM ROAD NUMBER: 000	DRAWN: DWH DATE: 05/03/10		<b>EL DORADO COUNTY</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>GREEN VALLEY ROAD AT TENNESSEE CREEK</b> <b>BRIDGE REPLACEMENT PROJECT</b> <b>REVEGETATION &amp; PLANTING PLAN</b>	SHEET <b>PL-1</b> 17 OF 61 W.D. No. <b>77109</b>
--	--	---	------------------------------	--	--	---	---



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 ORIGINAL SCALE IS IN INCHES  
 FOR REDUCED PLANS

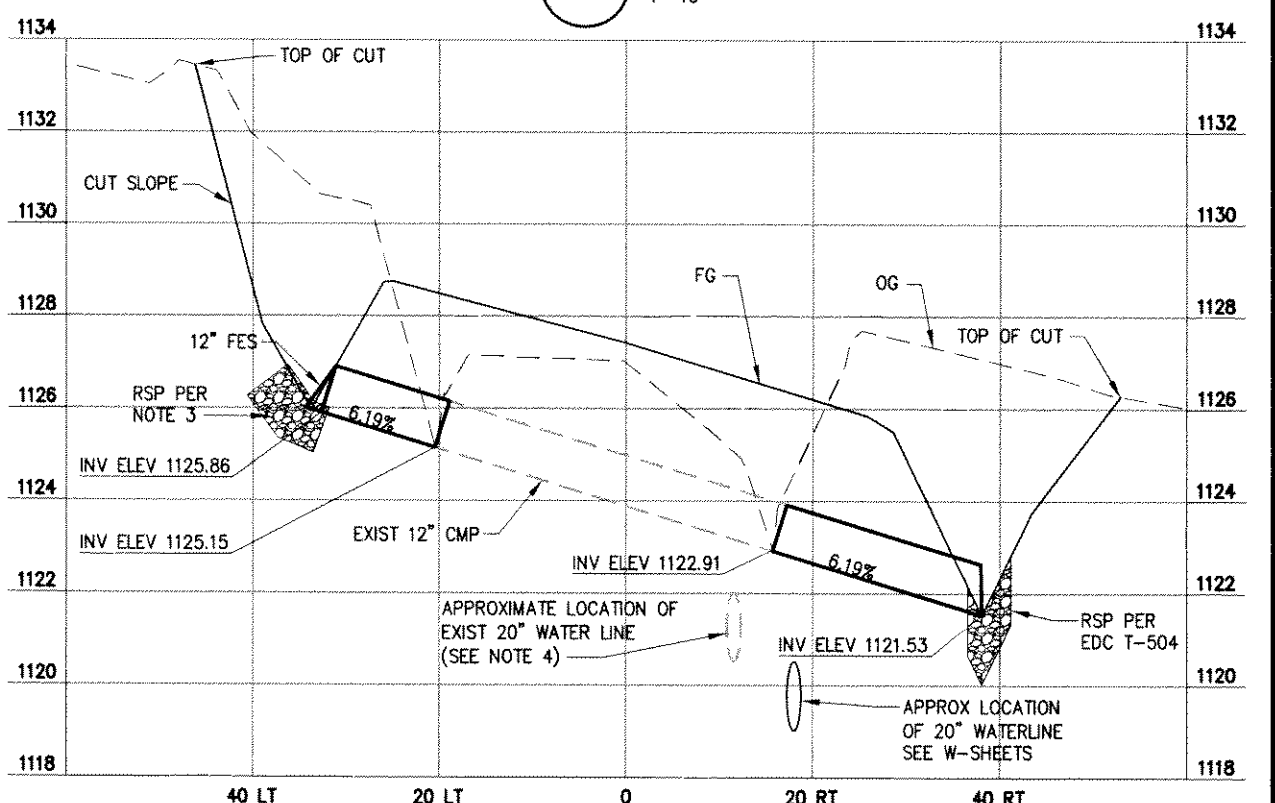
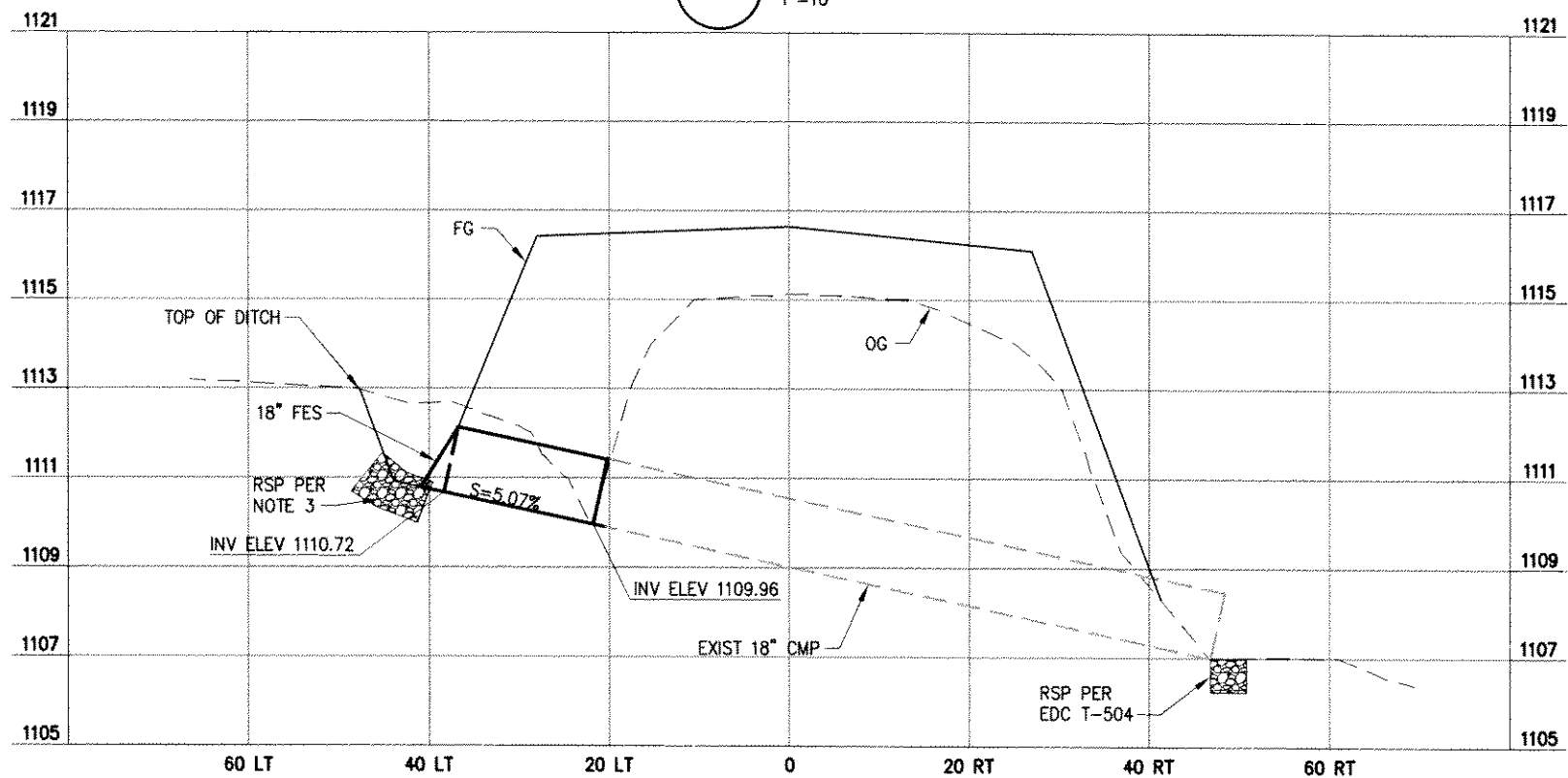
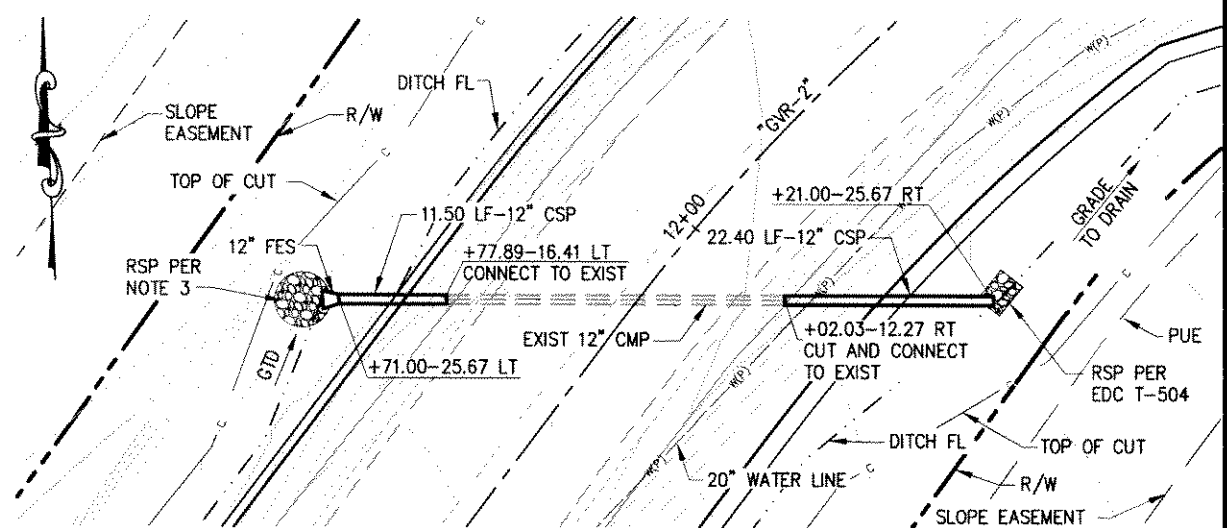


**NOTES:**

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" DIA. x 12" NOMINAL THICKNESS ROCK ENERGY DISSIPATOR AT INLET LOCATIONS SHOWN. (RSP FACING, METHOD B w/ RSP FABRIC)
4. CONTRACTOR SHALL DETERMINE ALL HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES SHOWN IN THE CONTRACT PLANS PRIOR TO CONSTRUCTION OF ANY COMPONENT OF ANY DRAINAGE SYSTEM IN ORDER TO VERIFY CONSTRUCTIBILITY OF DRAINAGE SYSTEMS.

**LEGEND:**

GTD GRADE TO DRAIN

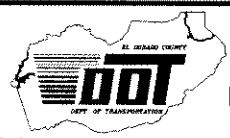


REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
  
 REGISTERED CIVIL ENGINEER  
 DATE: 11/2/10

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



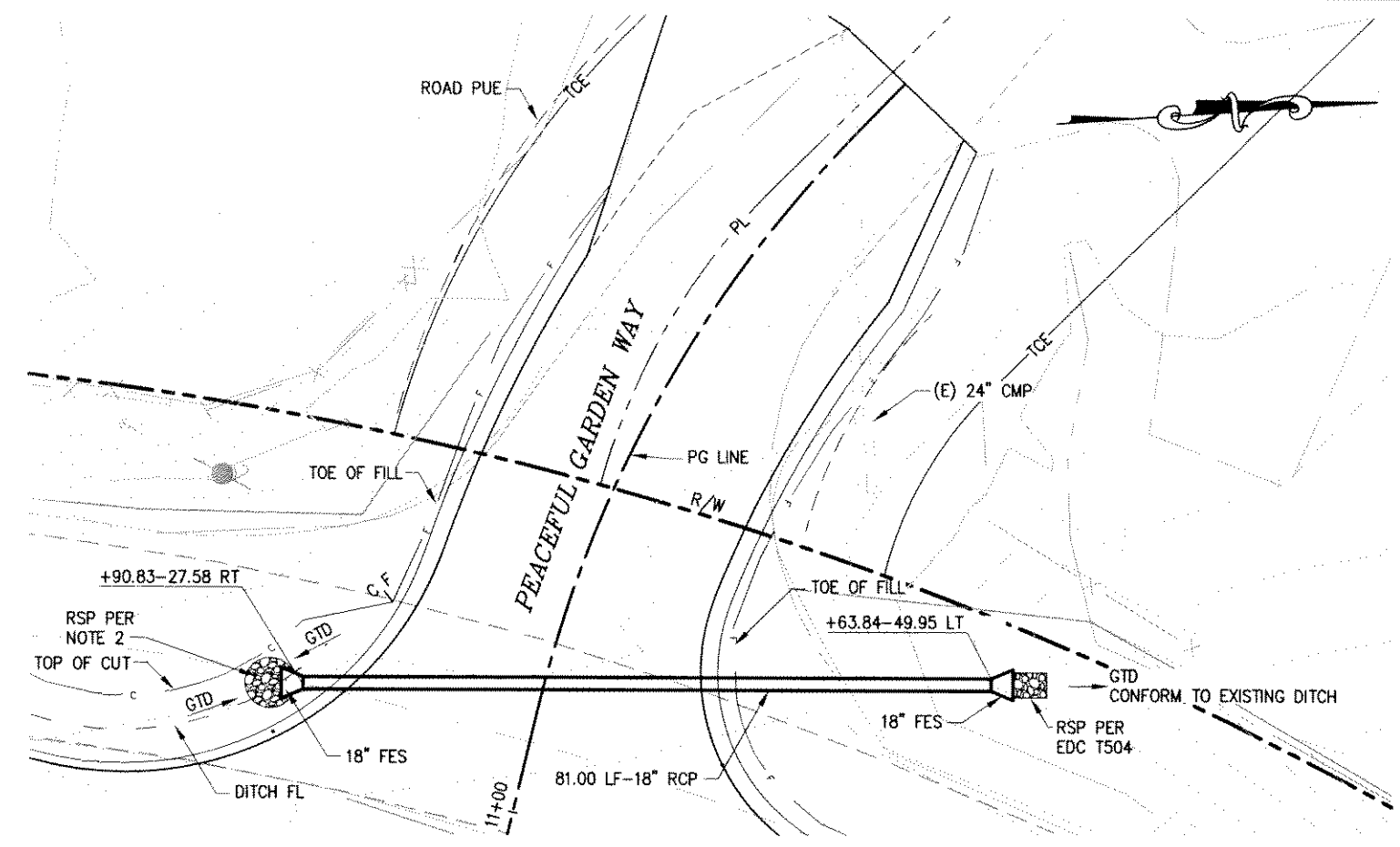
EL DORADO COUNTY  
 DEPARTMENT OF TRANSPORTATION

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

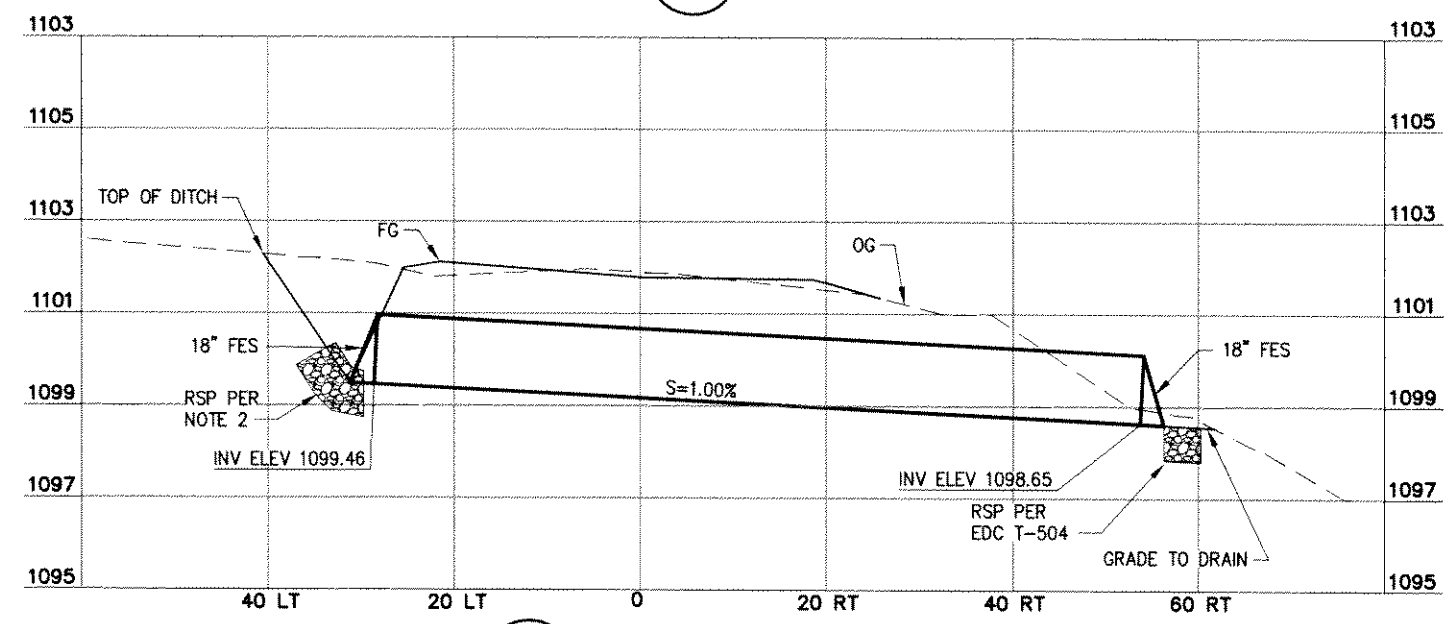
SHEET  
 D-1  
 18 OF 61  
 W.O. No. 77109



Drawing name: C:\Civil 3D Projects\77109 Tennessee Creek\CADD Files\Sheets\D-2.dwg  
 Layout Tab: D-2  
 Date: Jan 03, 2011 - 11:34am  
 Original Scale is in inches  
 FOR REDUCED PLANS



**3 PLAN**  
1"=10'



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

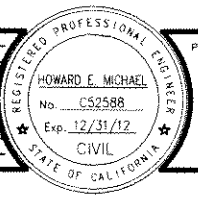
**LEGEND:**

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

**NOTES:**

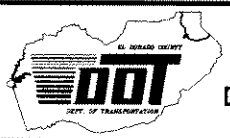
1. DITCH AND DITCH FLOWLINE SHALL BE ADJUSTED TO INSURE POSITIVE FLOW.
2. CONSTRUCT 6' DIA. x 12" NOMINAL THICKNESS ROCK ENERGY DISSIPATOR AT INLET LOCATIONS SHOWN. (RSP FACING, METHOD B w/ RSP FABRIC)

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
*Howard E. Michael*  
 REGISTERED CIVIL ENGINEER  
 DATE: 11/2/10

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

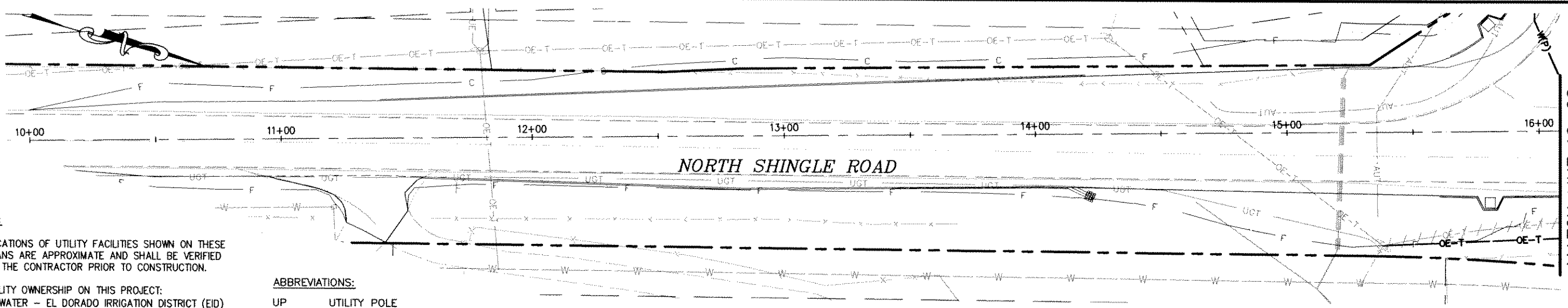


**EL DORADO COUNTY**  
**DEPARTMENT OF TRANSPORTATION**

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

SHEET  
**D-2**  
 19 OF 61  
 W.D. No. 77109

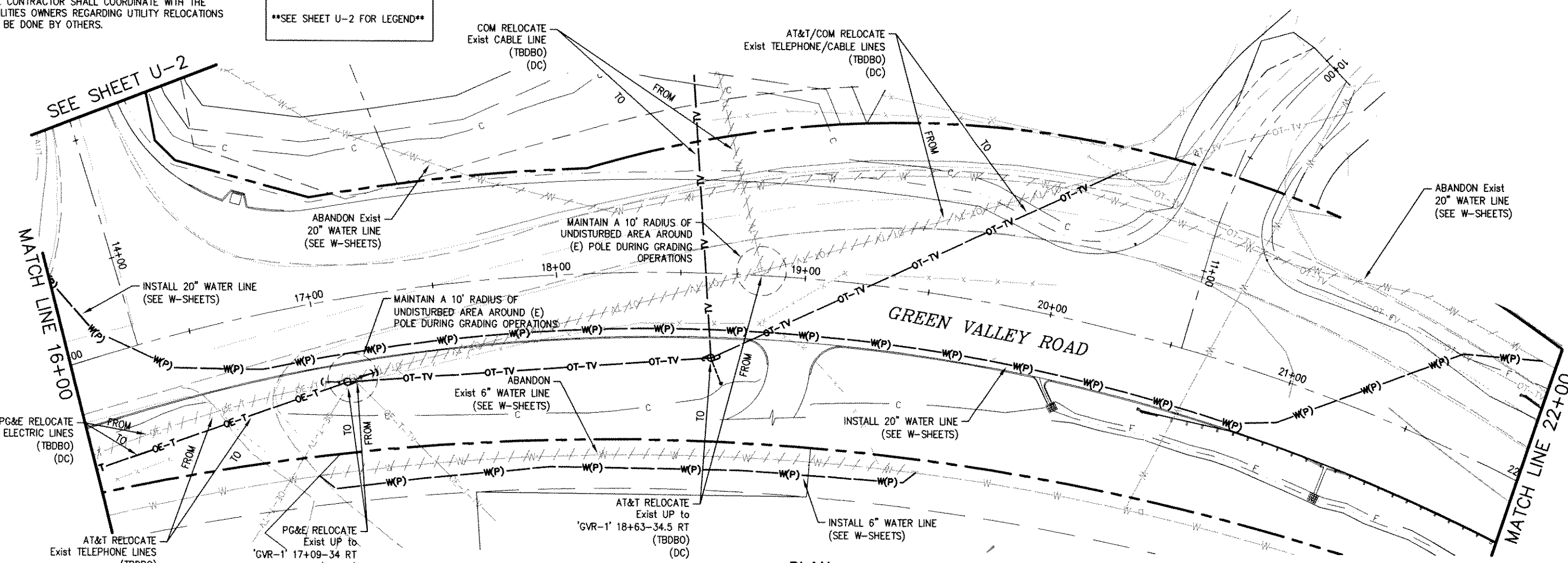
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 ORIGINAL SCALE IS IN INCHES  
 FOR REDUCED PLANS



- NOTES:**
- LOCATIONS OF UTILITY FACILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
  - UTILITY OWNERSHIP ON THIS PROJECT:  
 WATER - EL DORADO IRRIGATION DISTRICT (EID)  
 ELECTRIC - PACIFIC GAS AND ELECTRIC (PG&E)  
 TELEPHONE - AT&T COMMUNICATIONS (AT&T)  
 CABLE TV - COMCAST (COM)
  - THE CONTRACTOR SHALL COORDINATE WITH THE UTILITIES OWNERS REGARDING UTILITY RELOCATIONS TO BE DONE BY OTHERS.

**ABBREVIATIONS:**  
 UP UTILITY POLE  
 TBDBO TO BE DONE BY OTHERS  
 DC DURING CONSTRUCTION

**\*\*SEE SHEET U-2 FOR LEGEND\*\***

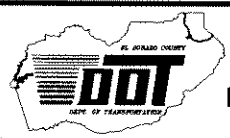


REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
 [Signature]  
 REGISTERED CIVIL ENGINEER  
 DATE: 11/2/10

DESIGNED: M.J.M.  
 DRAWN: M.J.M.  
 CHECKED: H.E.M.  
 DATE: 09/30/10  
 ROAD NUMBER: 000



**EL DORADO COUNTY**  
**DEPARTMENT OF TRANSPORTATION**

**GREEN VALLEY ROAD AT TENNESSEE CREEK**  
**BRIDGE REPLACEMENT PROJECT**  
**UTILITY PLAN**

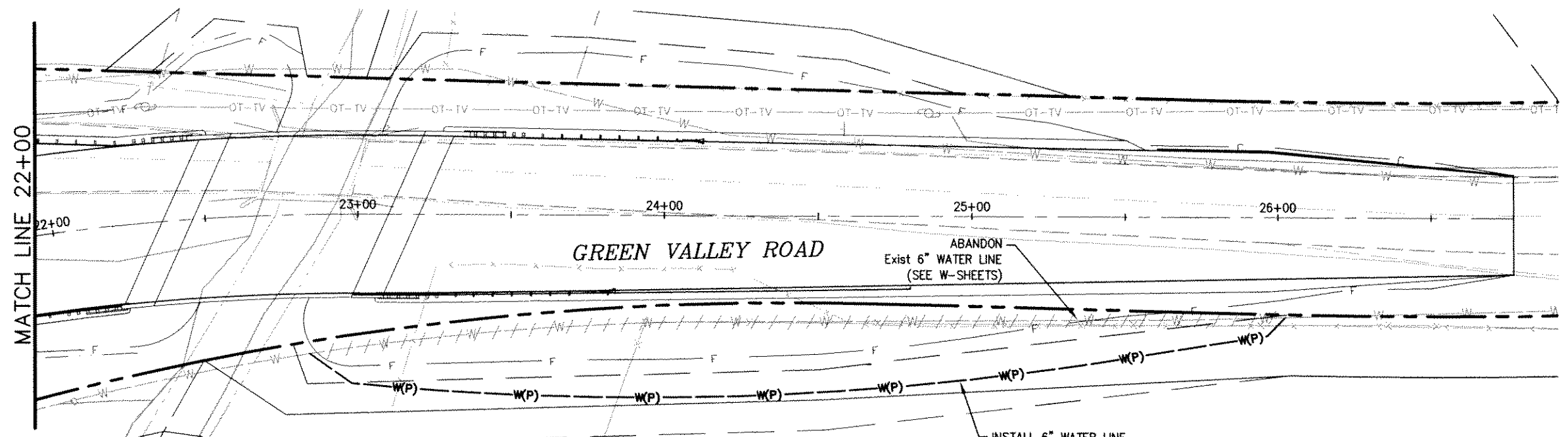
SHEET  
**U-1**  
 20 OF 61  
 W.O. No. 77109

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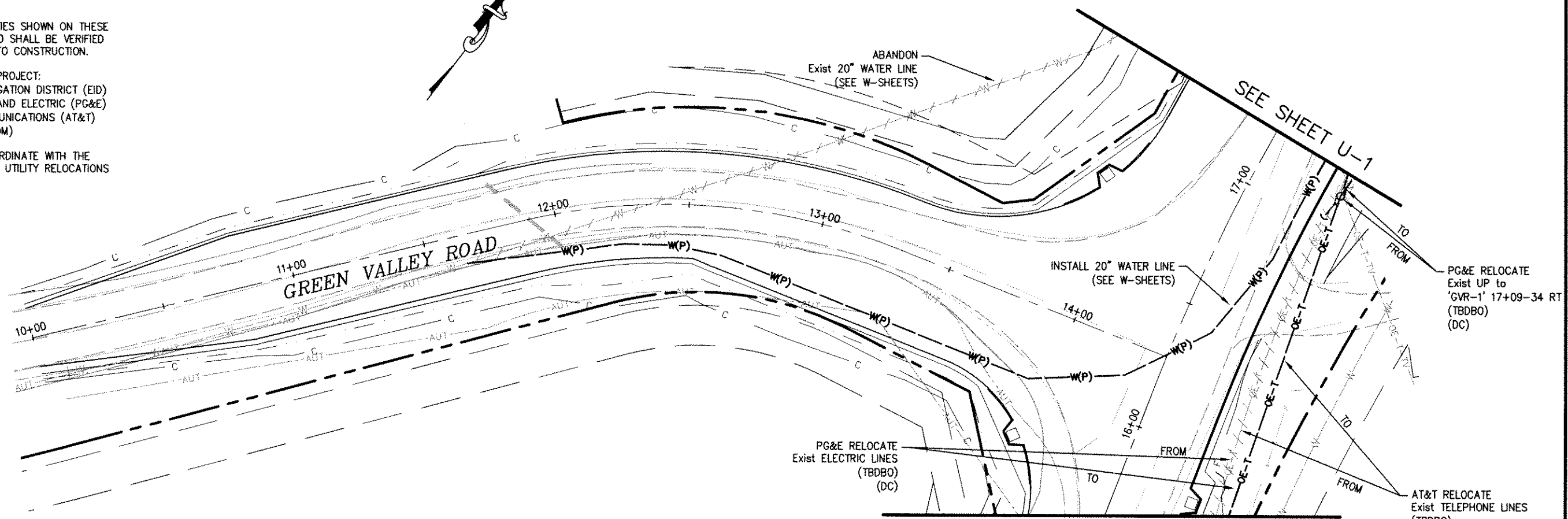
- LEGEND:**
- W --- EXISTING WATER
  - OE --- EXISTING ELECTRIC (OVERHEAD)
  - OT --- EXISTING TELEPHONE (OVERHEAD)
  - TV --- EXISTING CABLE (OVERHEAD)
  - UGT --- EXISTING TELEPHONE (UNDERGROUND)
  - ////// EXISTING UTILITY TO BE ABANDONED OR REMOVED (SEE NOTE ON PLANS)
  - AUT --- ABANDONED TELEPHONE (UNDERGROUND)
  - ⊙ EXISTING UTILITY POLE & GUY ANCHORS
  - W(P) --- PROPOSED WATER
  - OE --- PROPOSED ELECTRIC (OVERHEAD)
  - OT --- PROPOSED TELEPHONE (OVERHEAD)
  - TV --- PROPOSED CABLE (OVERHEAD)
  - ⊙ PROPOSED UTILITY POLE & GUY ANCHORS

- ABBREVIATIONS:**
- UP UTILITY POLE
  - TBDBO TO BE DONE BY OTHERS
  - DC DURING CONSTRUCTION

- NOTES:**
1. LOCATIONS OF UTILITY FACILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
  2. UTILITY OWNERSHIP ON THIS PROJECT:  
 WATER - EL DORADO IRRIGATION DISTRICT (EID)  
 ELECTRIC - PACIFIC GAS AND ELECTRIC (PG&E)  
 TELEPHONE - AT&T COMMUNICATIONS (AT&T)  
 CABLE TV - COMCAST (COM)
  3. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITIES OWNERS REGARDING UTILITY RELOCATIONS TO BE DONE BY OTHERS.



**PLAN**  
1"=20'



**PLAN**  
1"=20'

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
  
 REGISTERED CIVIL ENGINEER  
 DATE: 11/2/10

DESIGNED: M.J.M.  
 DRAWN: M.J.M.  
 CHECKED: H.E.M.  
 DATE: 09/30/10  
 ROAD NUMBER: 000

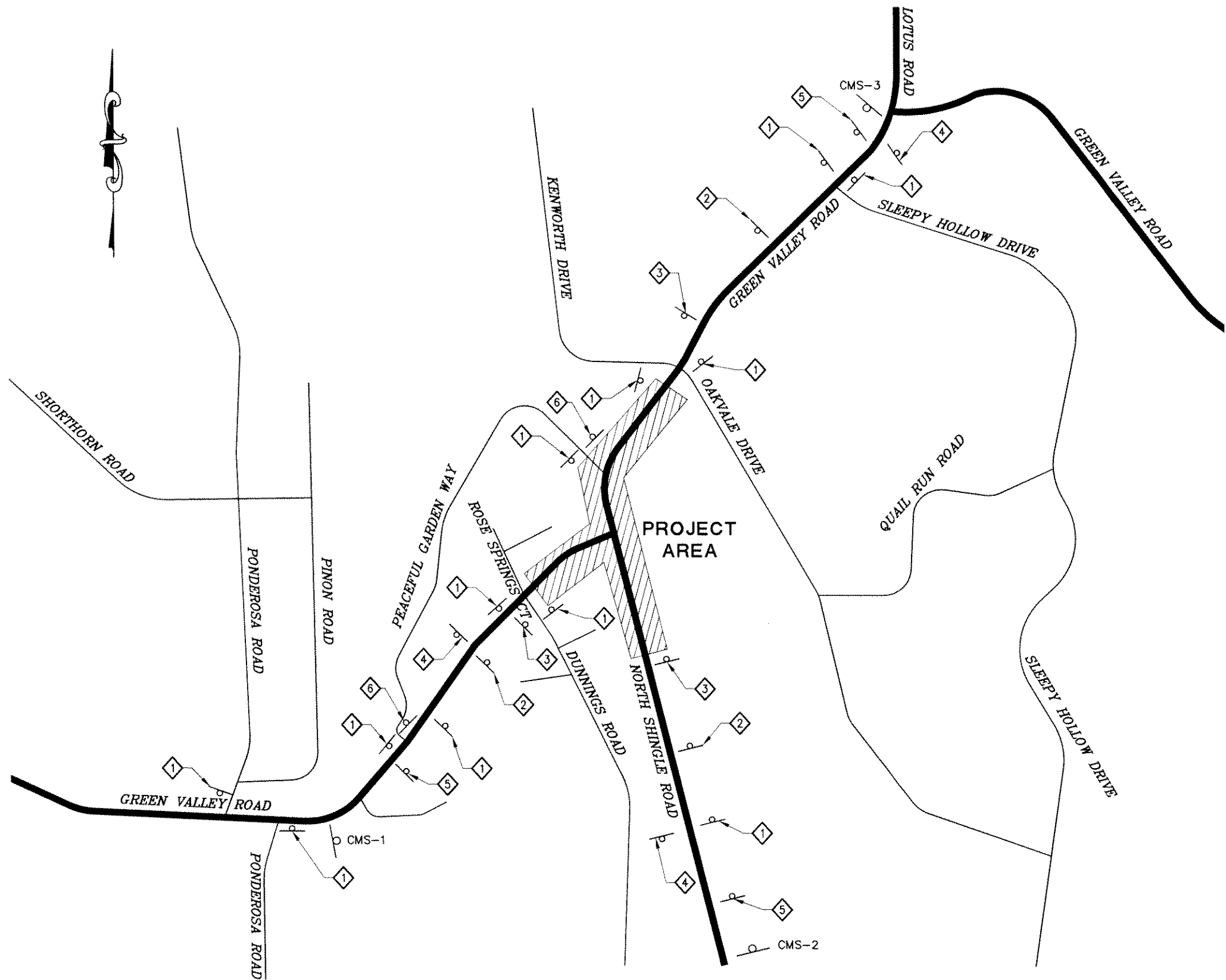


**EL DORADO COUNTY**  
**DEPARTMENT OF TRANSPORTATION**

**GREEN VALLEY ROAD AT TENNESSEE CREEK**  
**BRIDGE REPLACEMENT PROJECT**  
**UTILITY PLAN**

SHEET  
**U-2**  
 21 OF 61  
 W.O. No. 77109

Drawing name: C:\Civil 3D Projects\77109 Tennessee Creek\CADD Files\Sheets\CS-1.dwg    Layout Tab: CS-1    Dec 13, 2010    3:38pm    Dharrington  
 ORIGINAL SCALE IS IN INCHES  
 FOR REDUCED PLANS



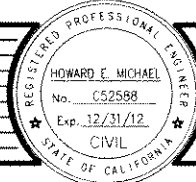
SIGN SCHEDULE				
ID	SIGN CODE	DIMENSIONS	SIGN MESSAGE	MOUNTING DETAILS
1	W20-1	36"x36"	ROAD WORK 1000 FT	WOOD POST (1)
2	C-12	36"x36"	NARROW LANE(S)	WOOD POST (1)
3	W3-1 (ORANGE)	36"x36"	STOP AHEAD	WOOD POST (1)
4	G20-2	36"x18"	END ROAD WORK	WOOD POST (1)
5	C40	108"x42"	TRAFFIC FINES DOUBLED...	WOOD POST (2)
6		108"x42"	PRIVATE ROAD LOCAL RESIDENTS ONLY	WOOD POST (1)

**NOTES:**

- ALL CONSTRUCTION AREA SIGNS SHALL CONFORM TO CHAPTER 6 OF THE CALIFORNIA MUTCD (2010).
- FOR CONSTRUCTION AREA SIGNS NOT SHOWN HERE, SEE THE TRAFFIC HANDLING SHEETS.
- SEE SHEET DE-1 FOR SIGN PLACEMENT DURING DETOUR STAGE.
- EXACT LOCATIONS OF CONSTRUCTION AREA SIGNS AND PCMS SHALL BE AS DETERMINED IN THE FIELD BY THE ENGINEER.

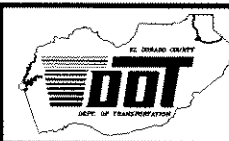
**PLAN**  
NO SCALE

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
  
 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

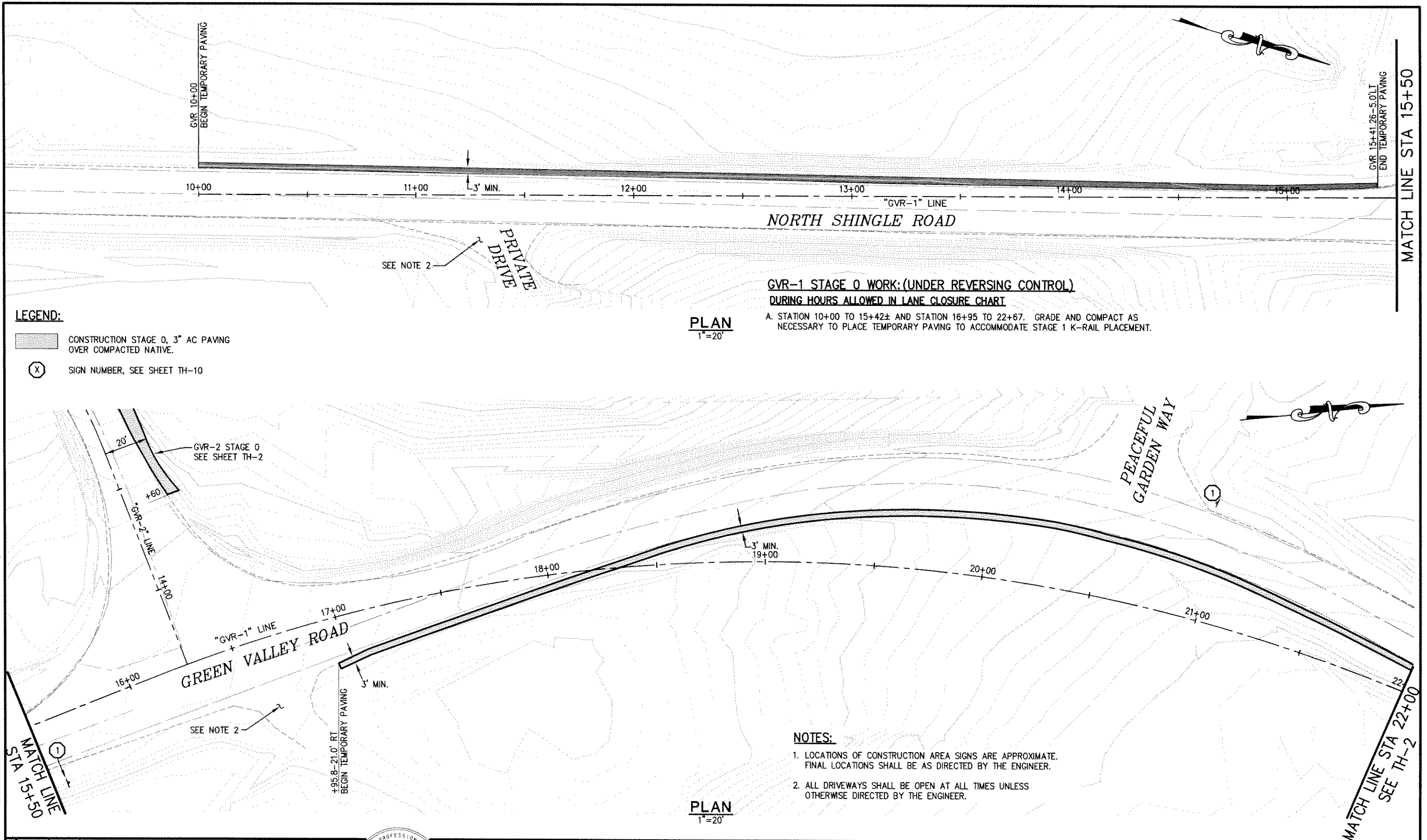


**EL DORADO COUNTY**  
 DEPARTMENT OF TRANSPORTATION

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

SHEET  
**CS-1**  
 22 OF 61  
 W.O. No. 77109

Drawing name: C:\Civl 3D Projects\77109 Tennessee Creek\CADD Files\Sheets\TH-1 STAGE 0.dwg  
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REVISION NUMBER	DATE	DESCRIPTION	BY

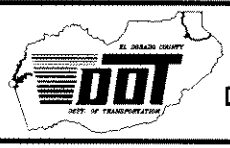


PREPARED UNDER THE SUPERVISION OF:

HOWARD E. MICHAEL  
 No. 052598  
 Exp. 12/31/12  
 CIVIL  
 REGISTERED CIVIL ENGINEER

DATE: 5/20/10

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



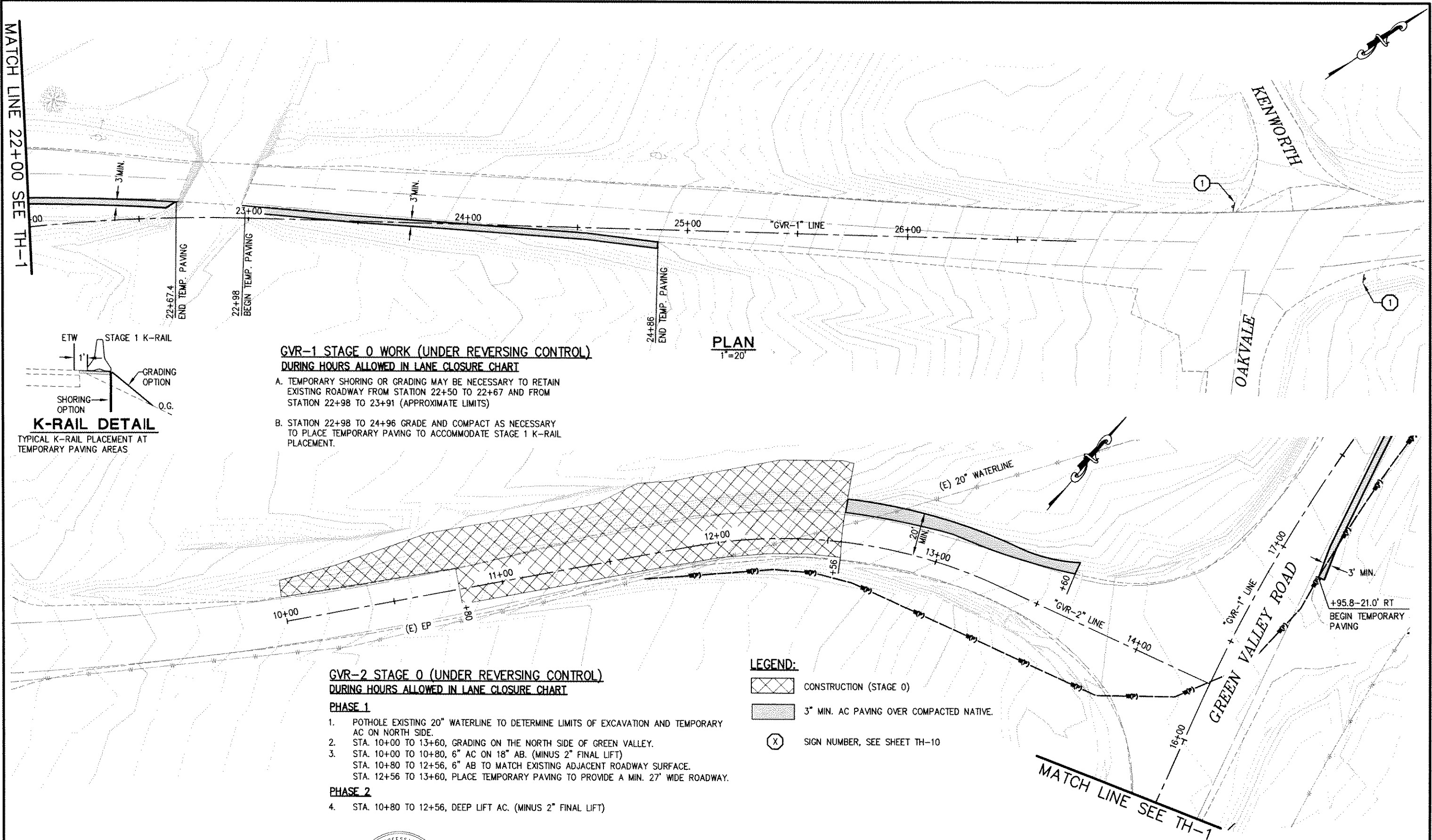
**EL DORADO COUNTY**  
**DEPARTMENT OF TRANSPORTATION**

**GREEN VALLEY ROAD AT TENNESSEE CREEK**  
**BRIDGE REPLACEMENT PROJECT**  
**TRAFFIC HANDLING PLAN - STAGE 0**

SHEET TH-1  
 23 OF 61  
 W.D. No. 77109



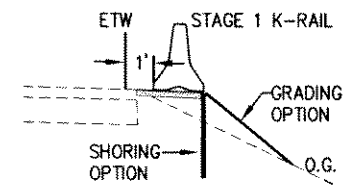
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**PLAN**  
1"=20'

**GVR-1 STAGE 0 WORK (UNDER REVERSING CONTROL)  
DURING HOURS ALLOWED IN LANE CLOSURE CHART**

- A. TEMPORARY SHORING OR GRADING MAY BE NECESSARY TO RETAIN EXISTING ROADWAY FROM STATION 22+50 TO 22+67 AND FROM STATION 22+98 TO 23+91 (APPROXIMATE LIMITS)
- B. STATION 22+98 TO 24+96 GRADE AND COMPACT AS NECESSARY TO PLACE TEMPORARY PAVING TO ACCOMMODATE STAGE 1 K-RAIL PLACEMENT.



**K-RAIL DETAIL**

TYPICAL K-RAIL PLACEMENT AT TEMPORARY PAVING AREAS

**GVR-2 STAGE 0 (UNDER REVERSING CONTROL)  
DURING HOURS ALLOWED IN LANE CLOSURE CHART**

**PHASE 1**

1. POT HOLE EXISTING 20" WATERLINE TO DETERMINE LIMITS OF EXCAVATION AND TEMPORARY AC ON NORTH SIDE.
2. STA. 10+00 TO 13+60, GRADING ON THE NORTH SIDE OF GREEN VALLEY.
3. STA. 10+00 TO 10+80, 6" AC ON 18" AB. (MINUS 2" FINAL LIFT)  
STA. 10+80 TO 12+56, 6" AB TO MATCH EXISTING ADJACENT ROADWAY SURFACE.  
STA. 12+56 TO 13+60, PLACE TEMPORARY PAVING TO PROVIDE A MIN. 27" WIDE ROADWAY.

**PHASE 2**

4. STA. 10+80 TO 12+56, DEEP LIFT AC. (MINUS 2" FINAL LIFT)

**LEGEND:**

- CONSTRUCTION (STAGE 0)
- 3" MIN. AC PAVING OVER COMPACTED NATIVE.
- SIGN NUMBER, SEE SHEET TH-10

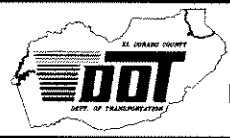
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
*[Signature]*  
REGISTERED CIVIL ENGINEER  
DATE: 11/2/10

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

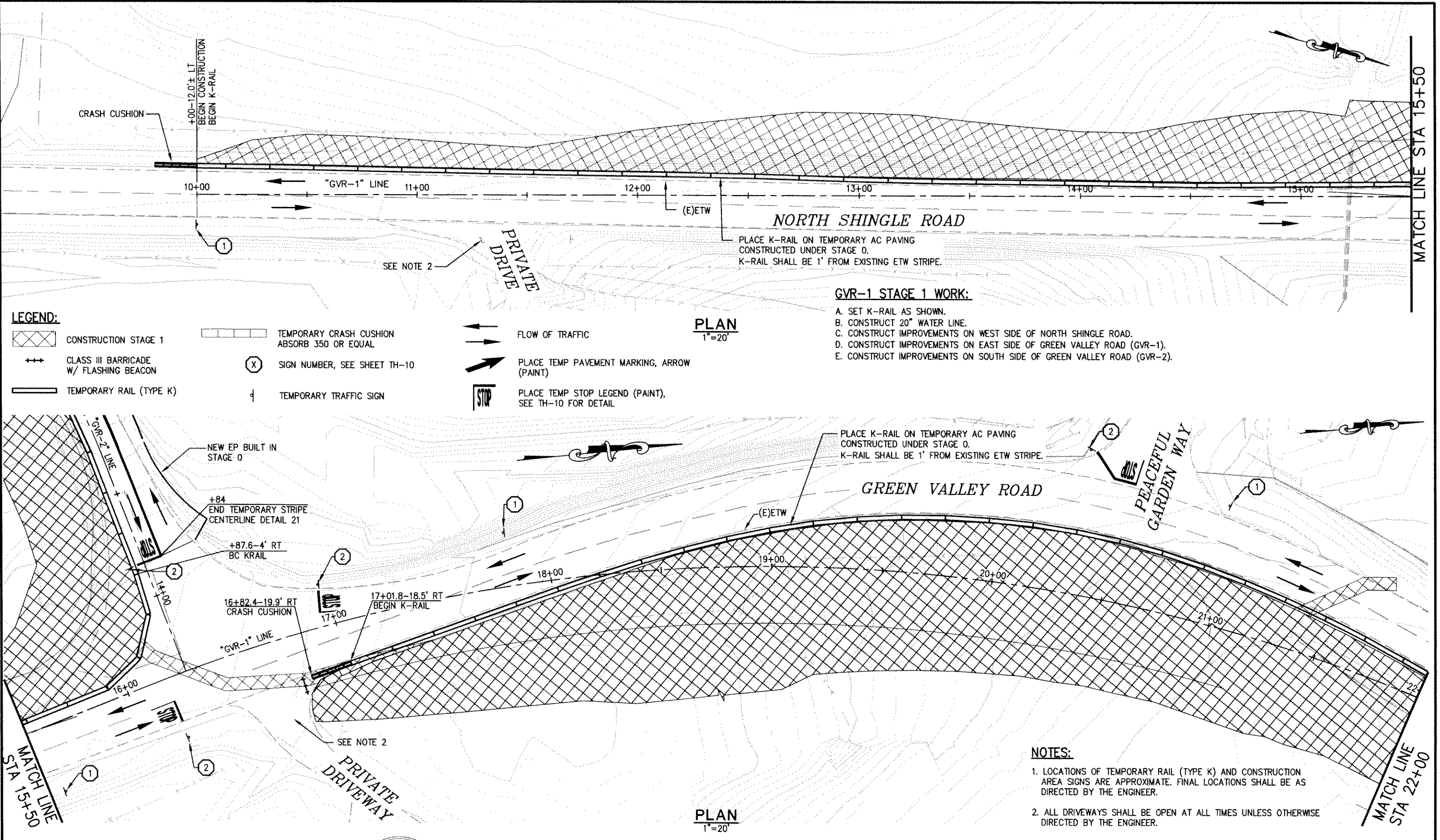


**EL DORADO COUNTY**  
DEPARTMENT OF TRANSPORTATION

**GREEN VALLEY ROAD AT TENNESSEE CREEK  
BRIDGE REPLACEMENT PROJECT  
TRAFFIC HANDLING PLAN - STAGE 0**

SHEET  
**TH-2**  
24 OF 61  
W.D. No. 77109

Drawing name: C:\Civil 3D Projects\77109 Tennessee Creek\CADD Files\Sheets\TH-3 STAGE 1.dwg  
 Layout Tab: TH-3 STAGE 1 Dec 13, 2010 - 3:50pm Dharrington  
 ORIGINAL SCALE IS IN INCHES  
 FOR REDUCED PLANS



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

**PLAN**  
1"=20'

**PLAN**  
1"=20'

- GVR-1 STAGE 1 WORK:**
- A. SET K-RAIL AS SHOWN.
  - B. CONSTRUCT 20" WATER LINE.
  - C. CONSTRUCT IMPROVEMENTS ON WEST SIDE OF NORTH SHINGLE ROAD.
  - D. CONSTRUCT IMPROVEMENTS ON EAST SIDE OF GREEN VALLEY ROAD (GVR-1).
  - E. CONSTRUCT IMPROVEMENTS ON SOUTH SIDE OF GREEN VALLEY ROAD (GVR-2).

- 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.

REVISION	NUMBER	DATE	DESCRIPTION	BY



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

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

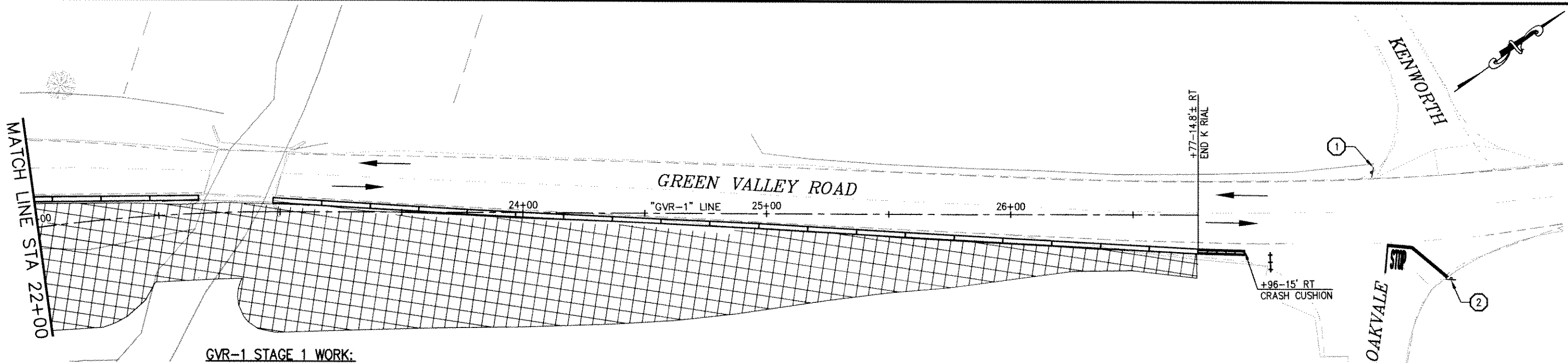


**EL DORADO COUNTY**  
**DEPARTMENT OF TRANSPORTATION**

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

SHEET  
**TH-3**  
 25 OF 61  
 W.D. No. 77109

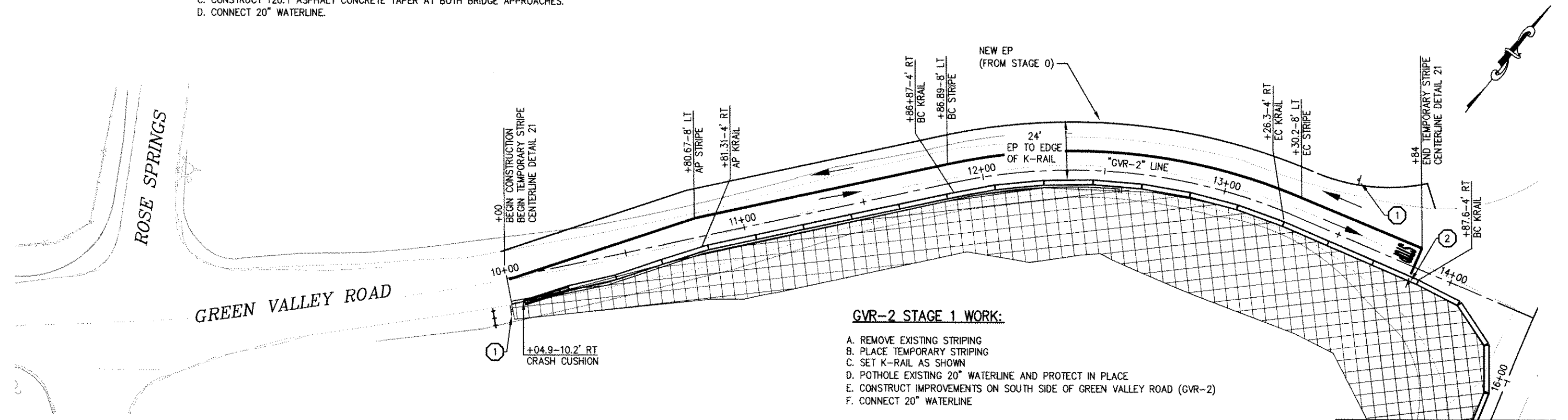
Drawing name: C:\Civil 3D Projects\77109 Tennessee Creek\CADD Files\Sheets\TH-4 STAGE 1.dwg Layout Tab: TH-4 STAGE 1 Dec 13, 2010 - 3:53pm D:\harrington



**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'

**LEGEND:**

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

**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.

REVISION NUMBER	DATE	DESCRIPTION	BY



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

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

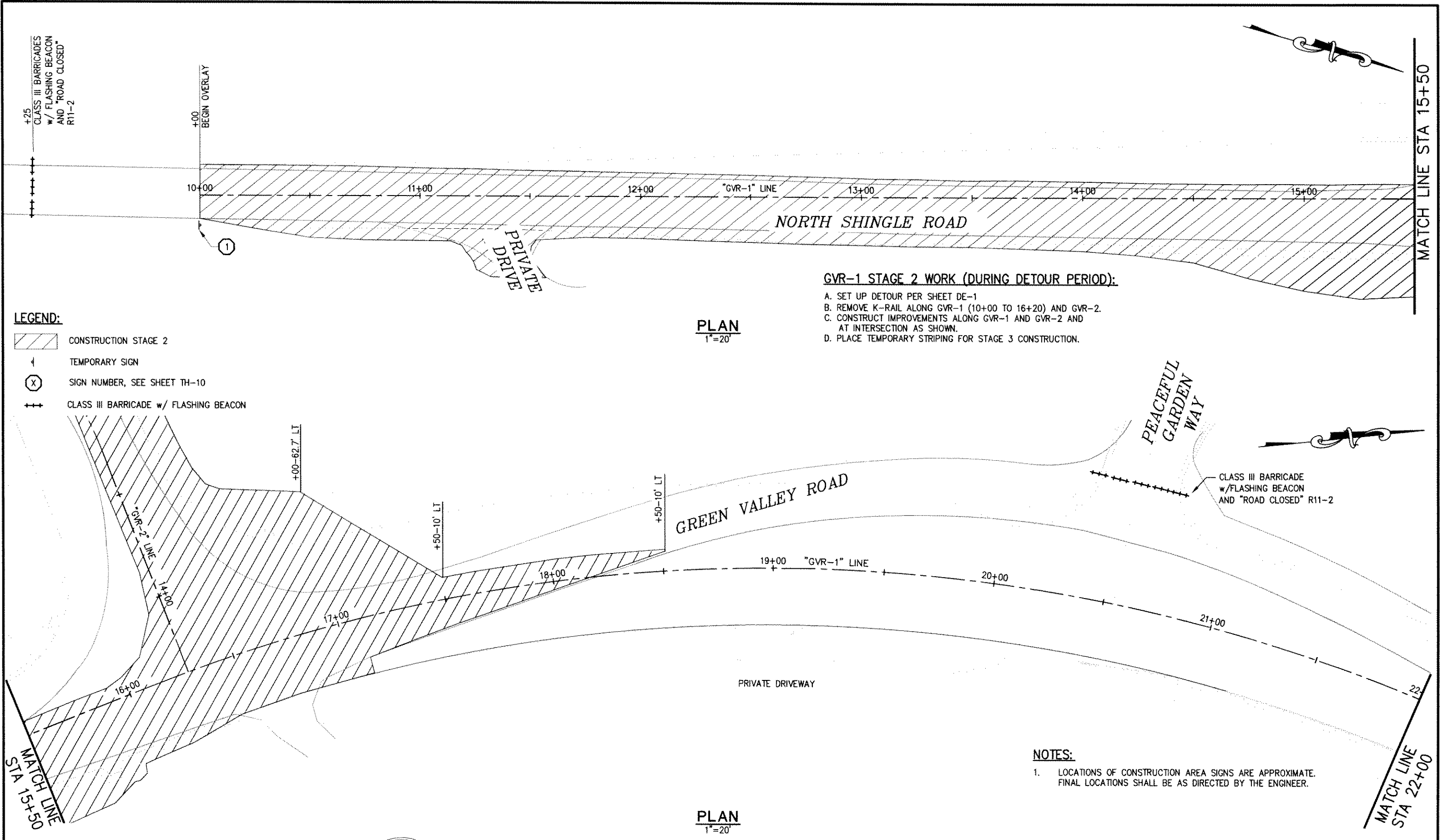


**EL DORADO COUNTY**  
 DEPARTMENT OF TRANSPORTATION

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

SHEET TH-4  
 26 OF 61  
 W.D. No. 77109

Drawing name: C:\Civil 3D Projects\77109 Tennessee Creek\CADD Files\Sheets\TH-5 STAGE 1B.dwg Layout Tab: TH-5 Dec 13, 2010 3:58pm Dharrington  
 ORIGINAL SCALE IS IN INCHES  
 FOR REDUCED PLANS



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

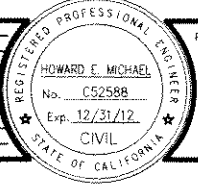
**GVR-1 STAGE 2 WORK (DURING DETOUR PERIOD):**

- 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.

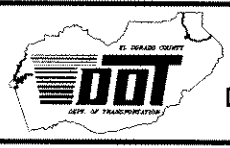
REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:

*Howard E. Michael*  
 REGISTERED CIVIL ENGINEER  
 DATE: 5/20/10

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



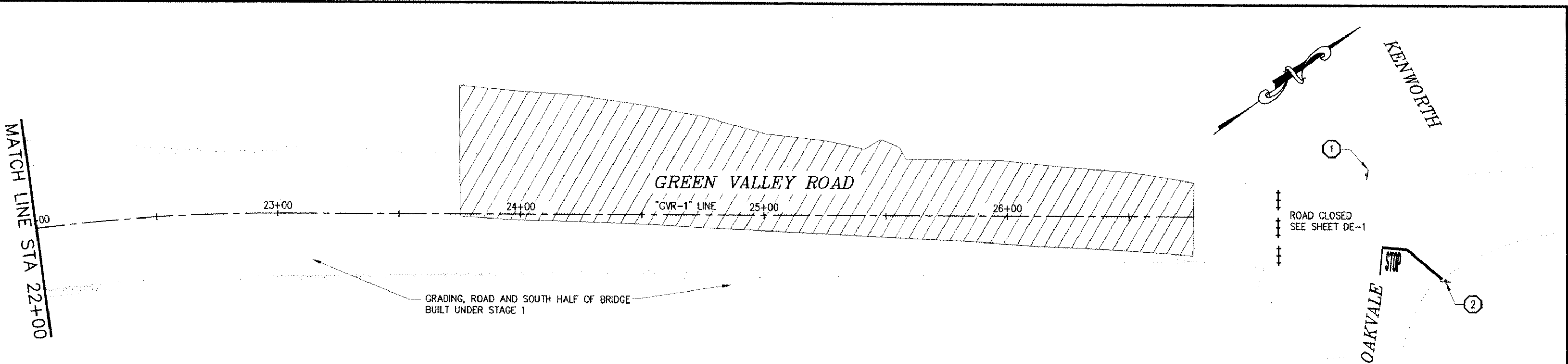
**EL DORADO COUNTY**  
 DEPARTMENT OF TRANSPORTATION

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

SHEET  
 TH-5  
 27 OF 61  
 W.O. No. 77109

Drawing name: C:\Civil 3D Projects\77109 Tennessee Creek\CADD Files\Sheets\TH-6 STAGE 1B.dwg Layout Tab: TH-6 STAGE 1B Dec 13, 2010 4:12pm Dharrington

MATCH LINE STA 22+00

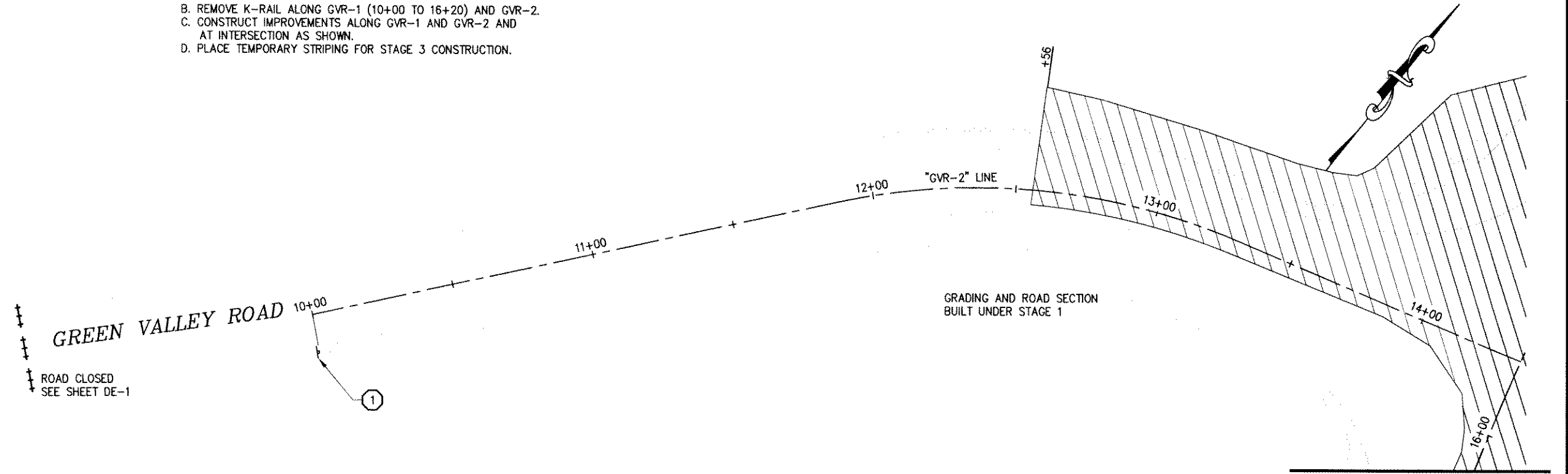


**GVR-1 STAGE 2 WORK (DURING DETOUR PERIOD):**

- 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.

**PLAN**  
1"=20'

ROSE SPRINGS



**NOTES:**

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

**PLAN**  
1"=20'

**LEGEND:**

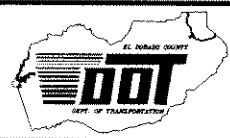
- CONSTRUCTION STAGE 2
- TEMPORARY SIGN
- SIGN NUMBER, SEE SHEET TH-10
- CLASS III BARRICADE w/ FLASHING BEACON

REVISION	NUMBER	DATE	DESCRIPTION	BY



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

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



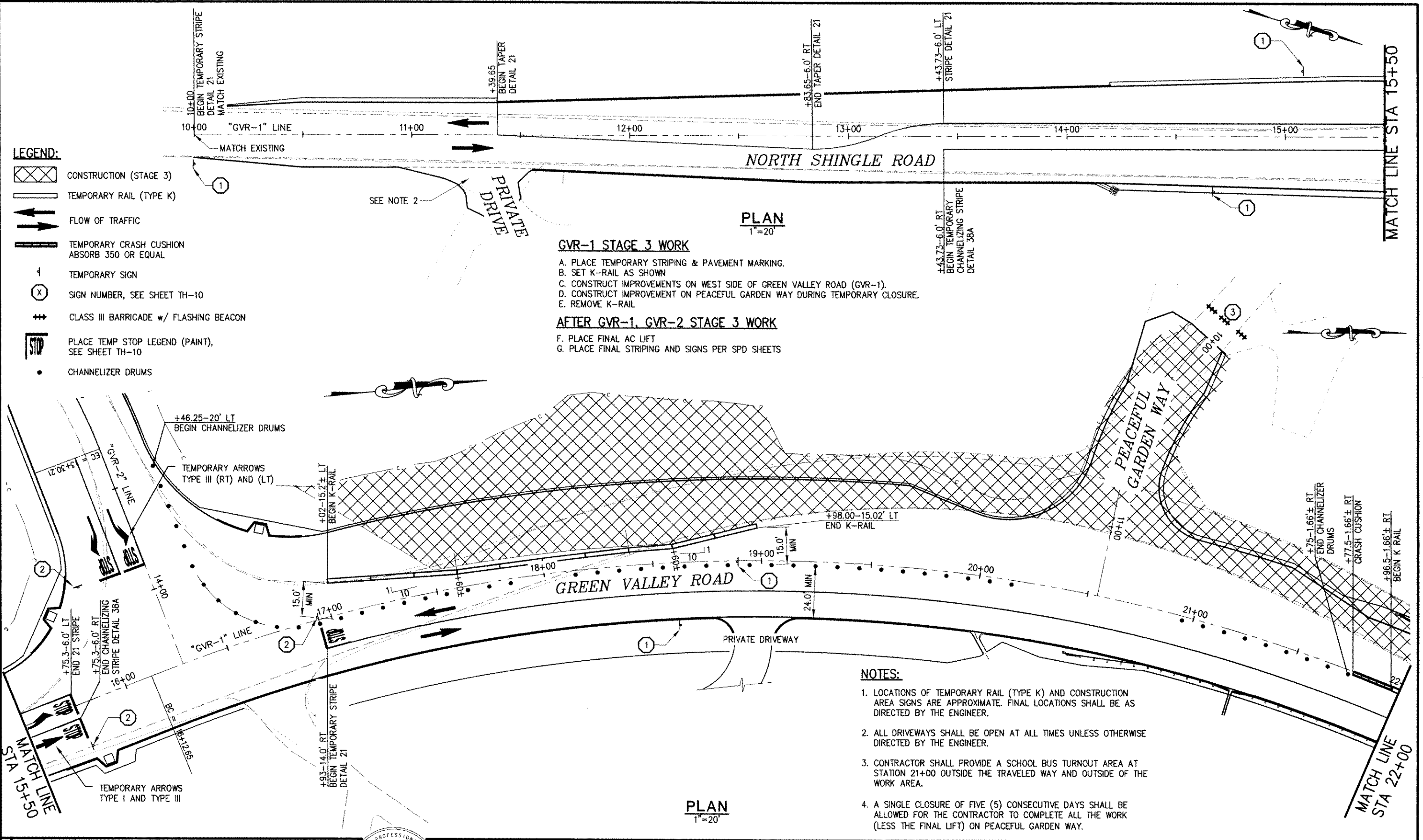
**EL DORADO COUNTY**  
**DEPARTMENT OF TRANSPORTATION**

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

SHEET  
**TH-6**  
 28 OF 61  
 W.O. No. 77109



Drawing name: C:\Civil 3D Projects\77109 Tennessee Creek\CADD Files\Sheets\TH-7 STAGE 3.dwg  
 Layout Tab: TH-7 STAGE 3 Dec 14, 2010 10:27am D:\harrington  
 ORIGINAL SCALE IS IN INCHES  
 FOR REDUCED PLANS



- 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
  - 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. A SINGLE CLOSURE OF FIVE (5) CONSECUTIVE DAYS SHALL BE ALLOWED FOR THE CONTRACTOR TO COMPLETE ALL THE WORK (LESS THE FINAL LIFT) ON PEACEFUL GARDEN WAY.

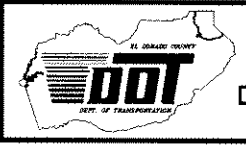
REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:

*Howard F. Michael*  
 REGISTERED CIVIL ENGINEER  
 DATE: 11/2/10

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

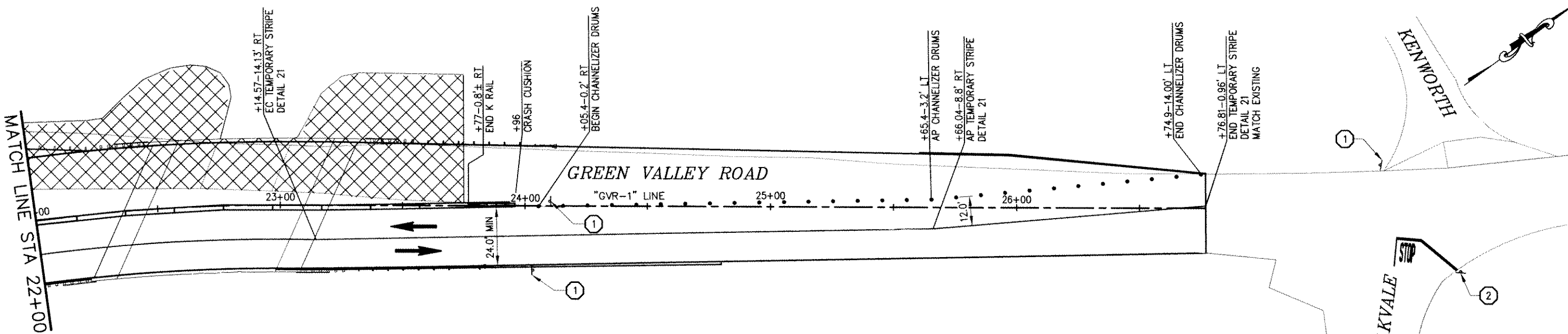


**EL DORADO COUNTY**  
 DEPARTMENT OF TRANSPORTATION

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

SHEET  
 TH-7  
 29 OF 61  
 W.O. No. 77109

Drawing name: C:\Civil 3D Projects\77108 Tennessee Creek\CADD Files\Sheets\TH-8 STAGE 3.dwg Layout Tab: TH-8 STAGE 3 Dec 13, 2010 4:22pm Dharrington  
 ORIGINAL SCALE IS IN INCHES  
 FOR REDUCED PLANS



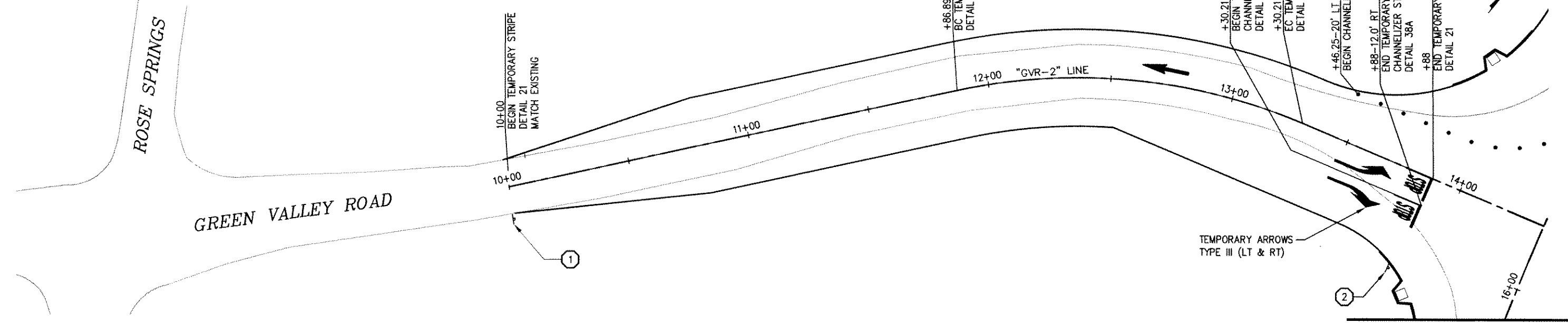
**GVR-1 STAGE 3 WORK**

- 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.

**PLAN**  
1"=20'



**NOTES:**

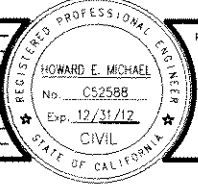
1. LOCATIONS OF TEMPORARY RAIL (TYPE K) AND CONSTRUCTION AREA SIGNS ARE APPROXIMATE. FINAL LOCATIONS SHALL BE AS DIRECTED BY THE ENGINEER.
2. ALL DRIVEWAYS SHALL BE OPEN AT ALL TIMES UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

**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

REVISION NUMBER	DATE	DESCRIPTION	BY



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

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

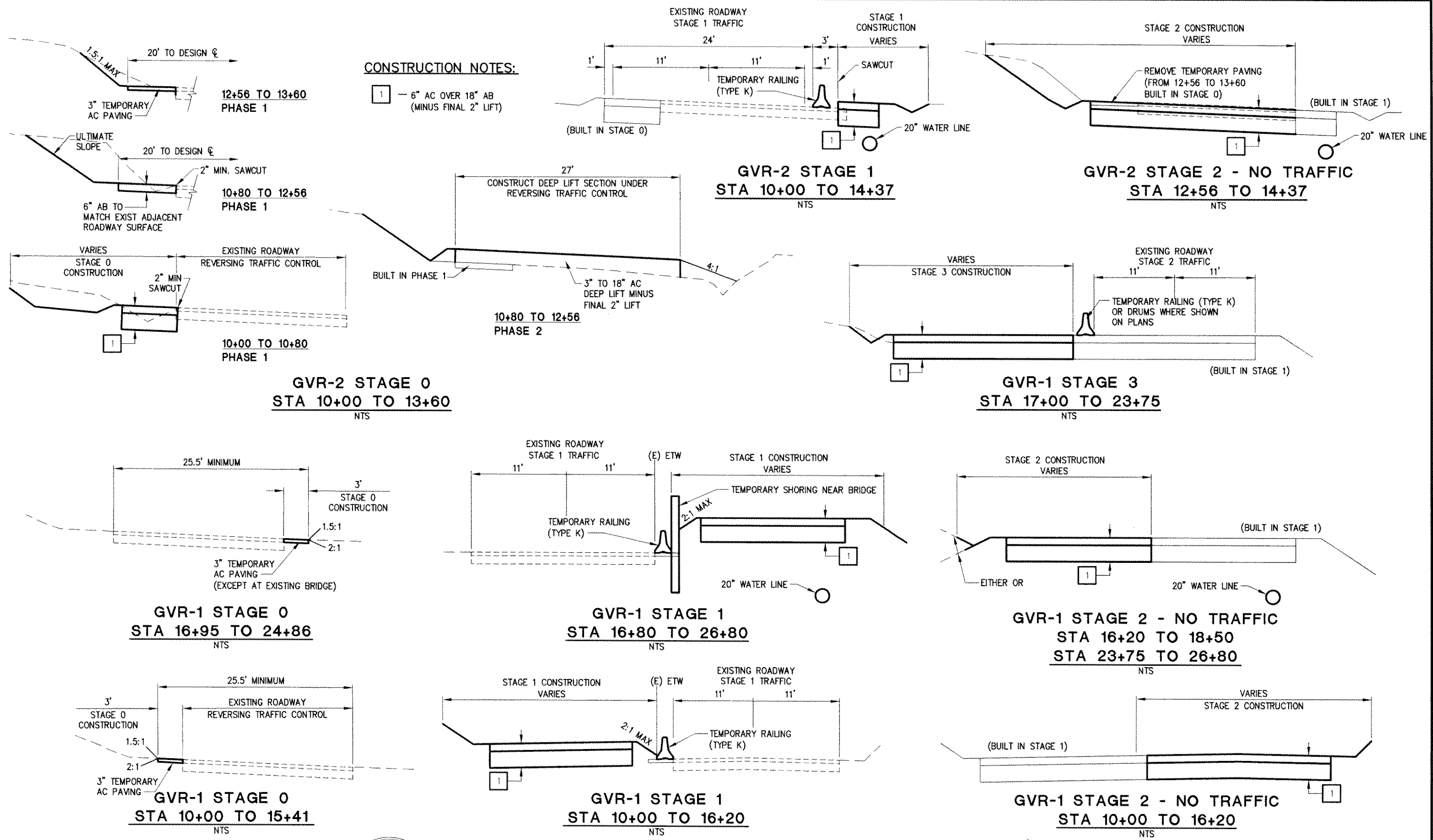


**EL DORADO COUNTY**  
**DEPARTMENT OF TRANSPORTATION**

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

SHEET  
**TH-8**  
 30 OF 61  
 W.D. No. 77109

Drawing name: C:\Civil 3D Projects\77109 Tennessee Creek\CADD Files\Sheets\TH-9 SECTIONS.dwg Layout Tab: TH-9 Dec. 13, 2010 - 4:24pm Dharrington  
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 1  
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 FOR REDUCED PLANS

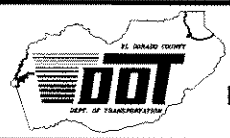


REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
*[Signature]*  
 REGISTERED CIVIL ENGINEER  
 DATE: 11/2/10

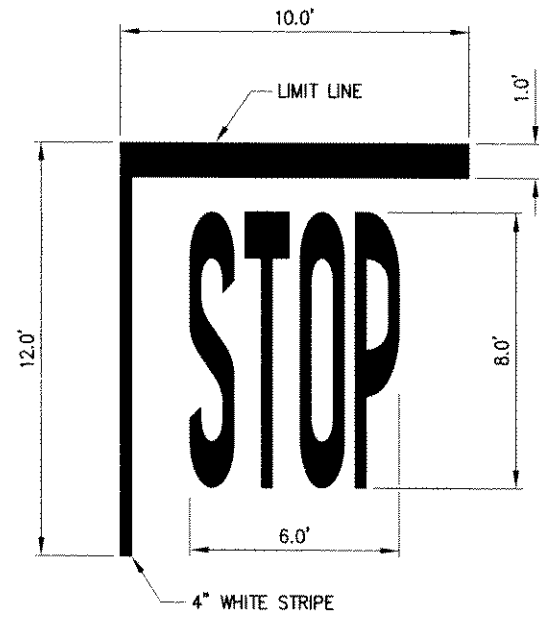
DESIGNED: M.J.M.  
 DRAWN: A.R.C.  
 CHECKED: H.E.M.  
 DATE: 05/03/10  
 ROAD NUMBER: 000



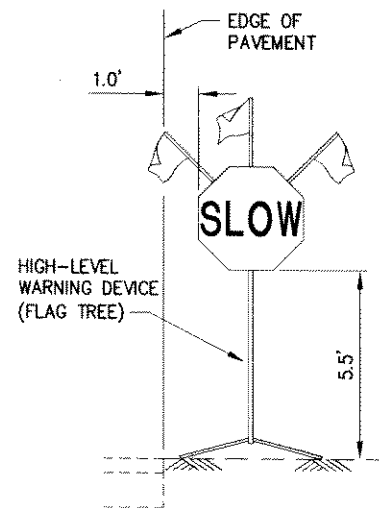
**EL DORADO COUNTY**  
 DEPARTMENT OF TRANSPORTATION

**GREEN VALLEY ROAD AT TENNESSEE CREEK**  
 BRIDGE REPLACEMENT PROJECT  
 TRAFFIC HANDLING SECTIONS

SHEET  
**TH-9**  
 31 OF 61  
 W.O. No. 77109



**TEMPORARY STOP LEGEND**  
NTS

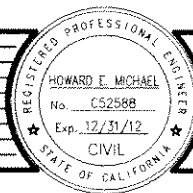


**HIGH-LEVEL WARNING DEVICE DETAIL**  
NTS

**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

REVISION NUMBER	DATE	DESCRIPTION	BY



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

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

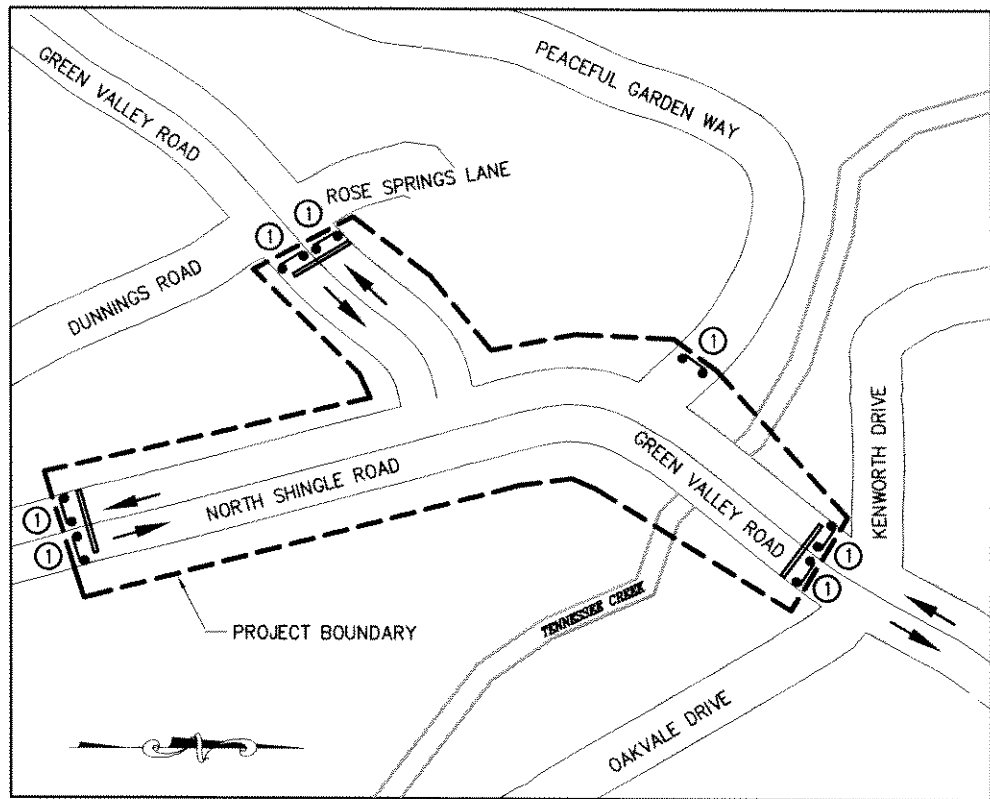


**EL DORADO COUNTY**  
 DEPARTMENT OF TRANSPORTATION

**GREEN VALLEY ROAD AT TENNESSEE CREEK**  
 BRIDGE REPLACEMENT PROJECT  
 TRAFFIC HANDLING DETAILS

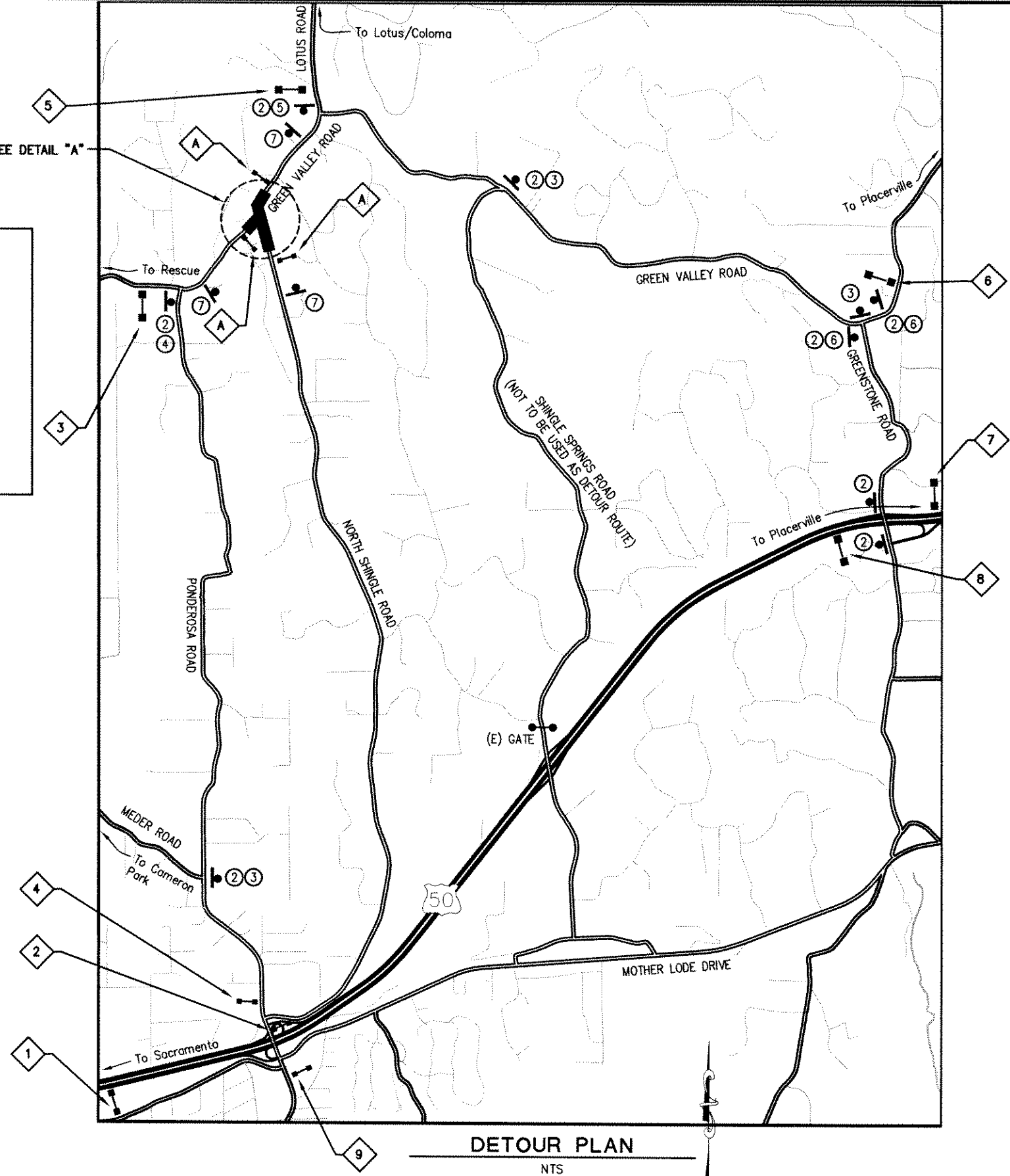
SHEET  
**TH-10**  
 32 OF 61  
 W.O. No. 77109

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 ORIGINAL SCALE: 15 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"



**DETOUR PLAN**  
NTS

PCMS No.	FIRST FLASH	SECOND FLASH	THIRD FLASH
⬡ A	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 FOR LOTUS RD

**LEGEND**

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

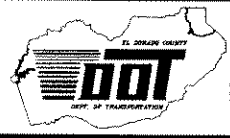
ADVANCED WARNING SIGNS TO BE PLACED PER CALIFORNIA MANUAL ON TRAFFIC CONTROL DEVICES. EXACT LOCATION OF SIGNS, BARRICADES AND RAILING TO BE DETERMINED BY THE ENGINEER.

REVISION	NUMBER	DATE	DESCRIPTION	BY



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

DESIGNED: DWH  
 DRAWN: DWH  
 CHECKED: JPM  
 DATE: 05/03/10  
 ROAD NUMBER: 000



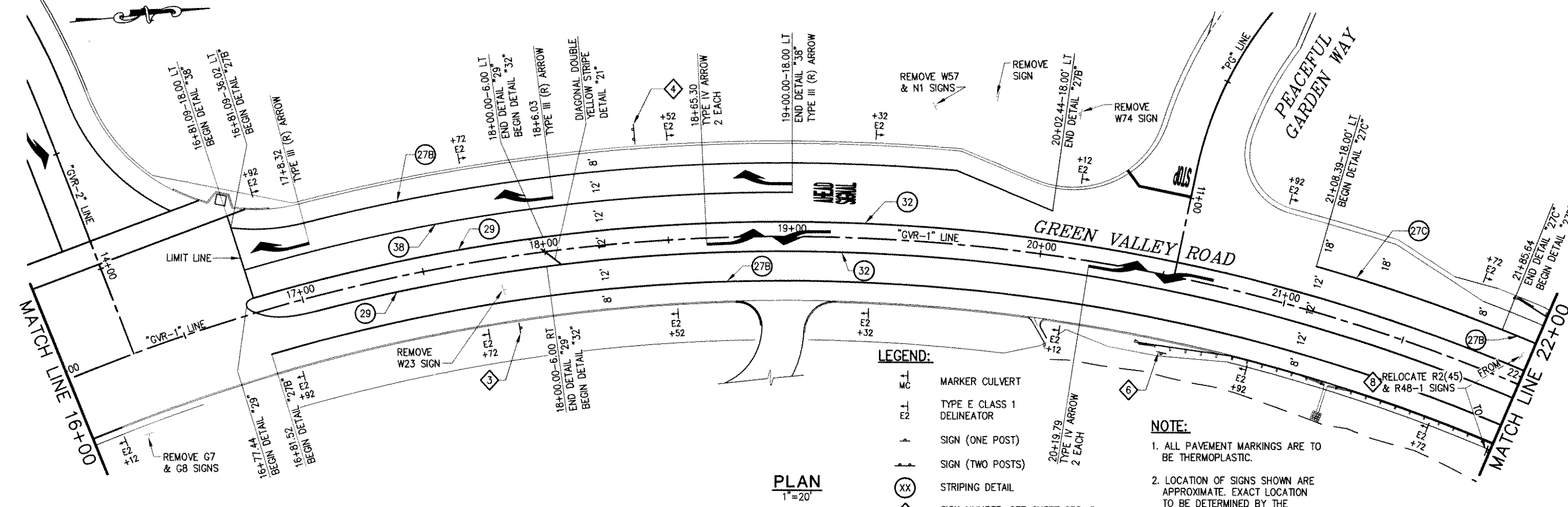
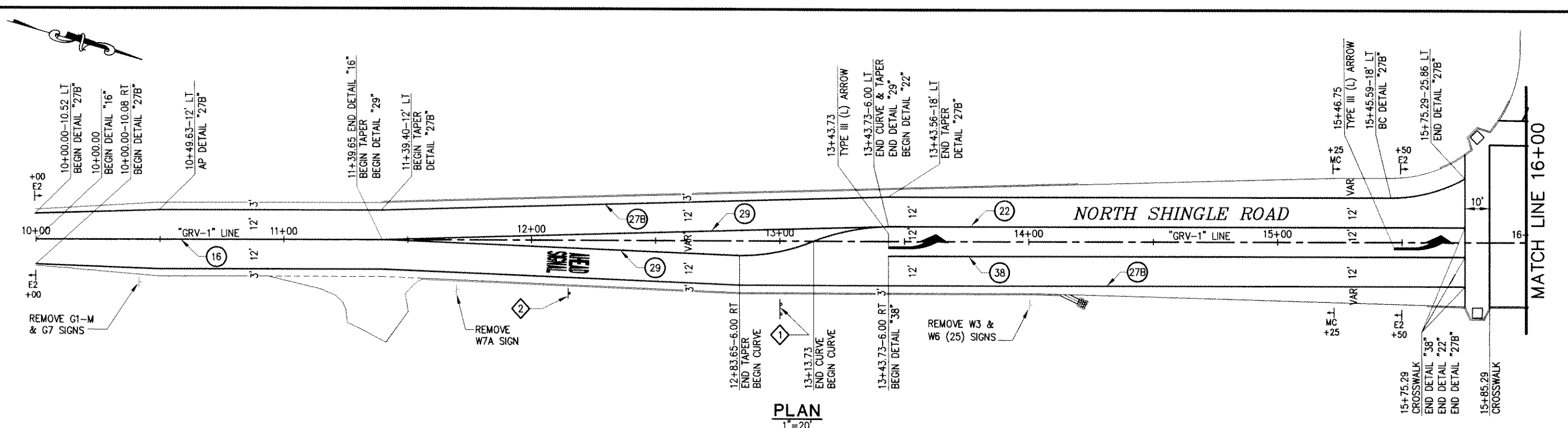
**EL DORADO COUNTY**  
**DEPARTMENT OF TRANSPORTATION**

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

SHEET  
**DE-1**  
 33 OF 61  
 W.D. No. 77109



Drawing name: C:\Civil 3D Projects\77109 Tennessee Creek\CADD Files\Sheets\SPD-1.dwg Layout Tab: SPD-1 Dec 13, 2010 - 4:31pm D:\Herrington  
 FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 2 1 0

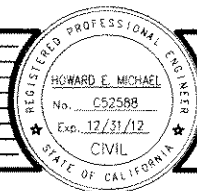


- LEGEND:**
- MC MARKER CULVERT
  - E2 TYPE E CLASS 1 DELINEATOR
  - SIGN (ONE POST)
  - SIGN (TWO POSTS)
  - XX STRIPING DETAIL
  - X SIGN NUMBER, SEE SHEET SPD-3

**NOTE:**

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

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
 Howard E. Michael  
 No. C52598  
 Exp. 12/31/12  
 REGISTERED CIVIL ENGINEER  
 DATE: 5/20/10

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

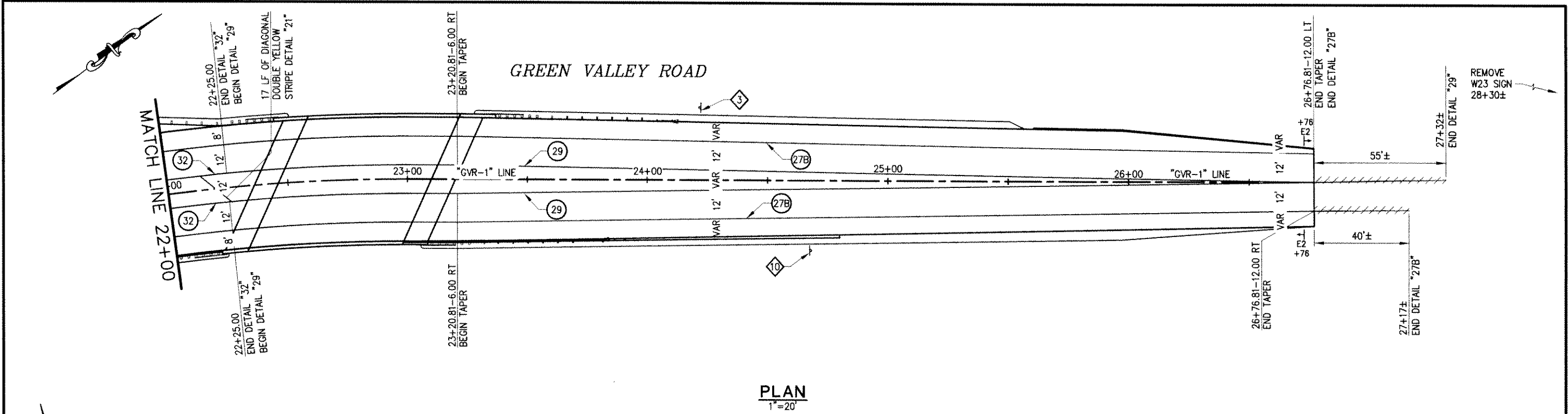


EL DORADO COUNTY  
 DEPARTMENT OF TRANSPORTATION

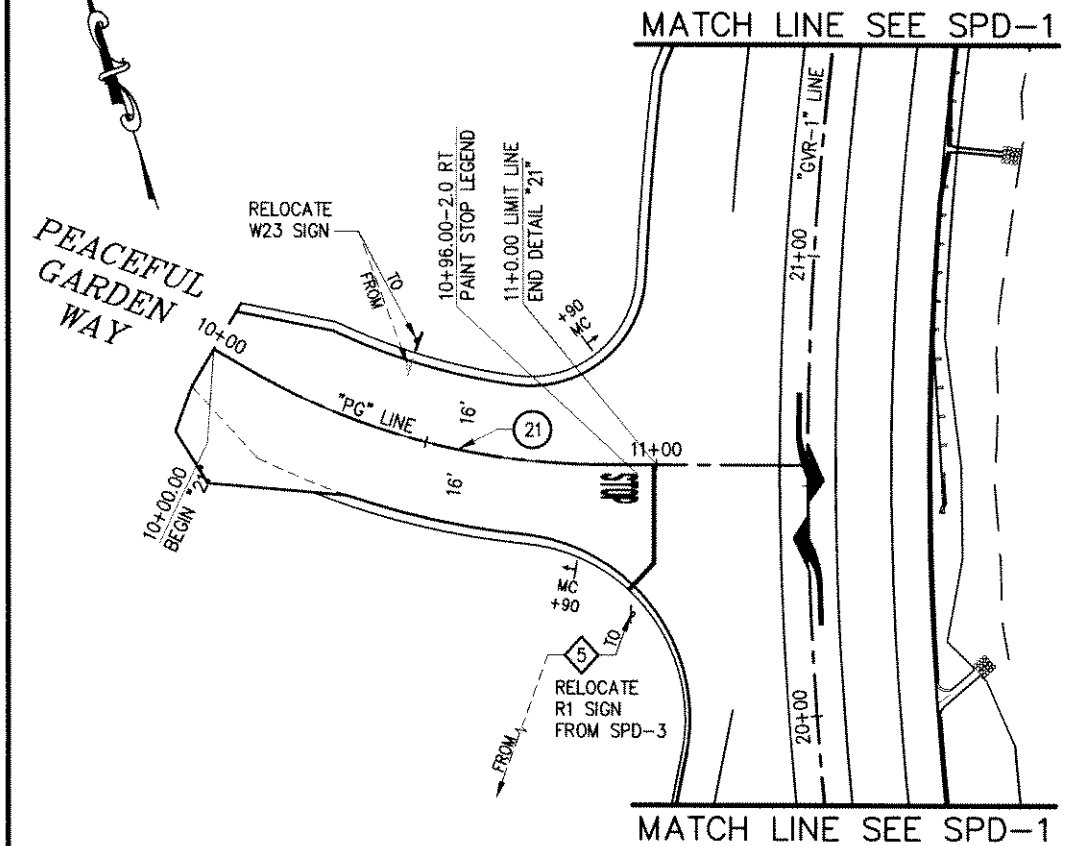
GREEN VALLEY ROAD AT TENNESSEE CREEK  
 BRIDGE REPLACEMENT PROJECT  
 SIGNING AND PAVEMENT DELINEATION

SHEET  
 SPD-1  
 34 OF 61  
 W.O. No. 77109

Drawing name: C:\Civil 3D Projects\77109 Tennessee Creek\CADD Files\Sheets\SPD-2.dwg Layout Tab: SPD-2 Dec 13, 2010 4:33pm Dharrington



**PLAN**  
1"=20'



**PLAN**  
1"=20'

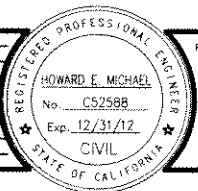
**LEGEND:**

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

**NOTE:**

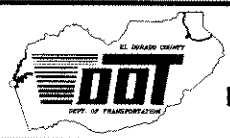
1. ALL PAVEMENT MARKINGS ARE TO BE THERMOPLASTIC.
2. LOCATION OF SIGNS SHOWN ARE APPROXIMATE. EXACT LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

REVISION	NUMBER	DATE	DESCRIPTION	BY



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

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

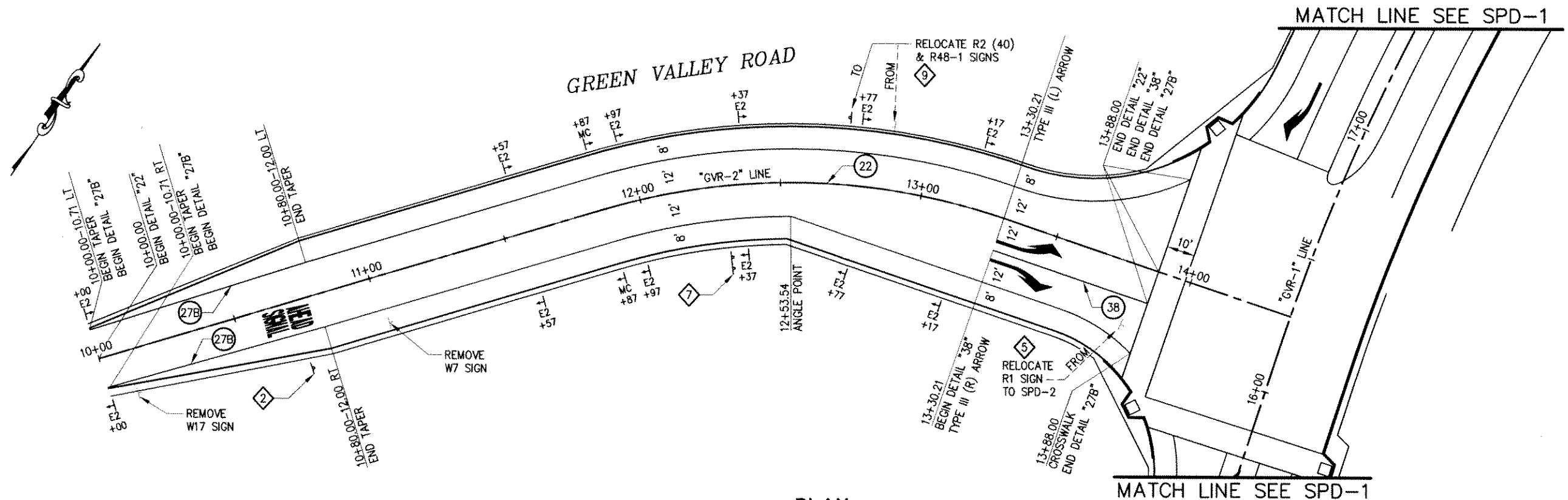


**EL DORADO COUNTY**  
 DEPARTMENT OF TRANSPORTATION

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

SHEET  
**SPD-2**  
 35 OF 61  
 W.O. No. 77109

Drawing name: C:\Civil 3D\Projects\77109 Tennessee Creek\CADD Files\Sheets\SPD-3.dwg Layout Tab SPD-3 Dec 13, 2010 4:38pm Dharrington

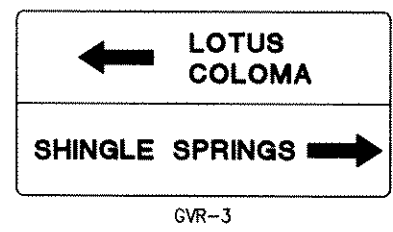
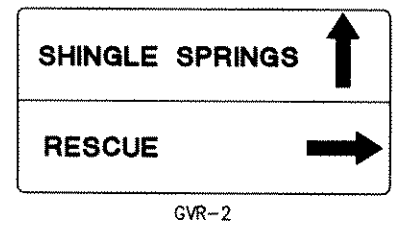
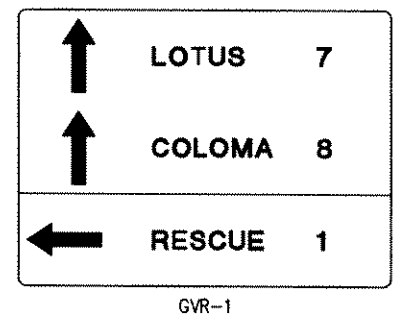


**PLAN**  
1"=20'

**SIGN SCHEDULE**

ID	SIGN CODE	DIMENSIONS	MOUNTING DETAILS	QUANTITY
1	GVR-1	48"x42"	DOUBLE POST	1
2	W3-3	36"x36"	SINGLE POST	2
3	W2-2	36"x36"	SINGLE POST	2
4	GVR-2	48"x36"	DOUBLE POST	1
5	R1-1	EXIST	SINGLE POST	1
6	W1-7	48"x24"	SINGLE POST	1
7	GVR-3	48"x36"	DOUBLE POST	1
8	R2(45)/R48-1	EXIST	SINGLE POST	1
9	R2(40)/R48-1	EXIST	SINGLE POST	1
10	W2-1/ W13-1(35)	36"x36"	SINGLE POST	1

\*RELOCATED SIGNS



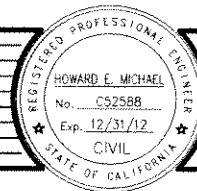
**LEGEND:**

- MC MARKER CULVERT
- E2 TYPE E CLASS 1 DELINEATOR
- SIGN (ONE POST)
- SIGN (TWO POSTS)
- XX STRIPING DETAIL
- X SIGN NUMBER, SEE SHEET SPD-3

**NOTE:**

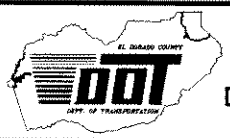
1. ALL PAVEMENT MARKINGS ARE TO BE THERMOPLASTIC.
2. LOCATION OF SIGNS SHOWN ARE APPROXIMATE. EXACT LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

REVISION	NUMBER	DATE	DESCRIPTION	BY



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

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



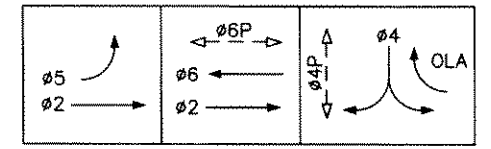
**EL DORADO COUNTY**  
 DEPARTMENT OF TRANSPORTATION

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

SHEET  
**SPD-3**  
 36 OF 61  
 W.D. No. 77109

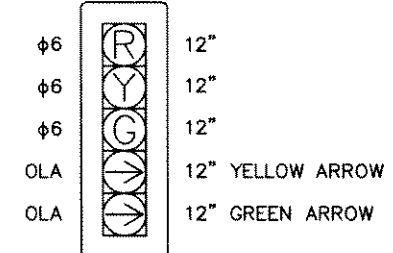
**TRAFFIC SIGNAL GENERAL NOTES:**

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.



**PROPOSED TRAFFIC PHASE DIAGRAM**

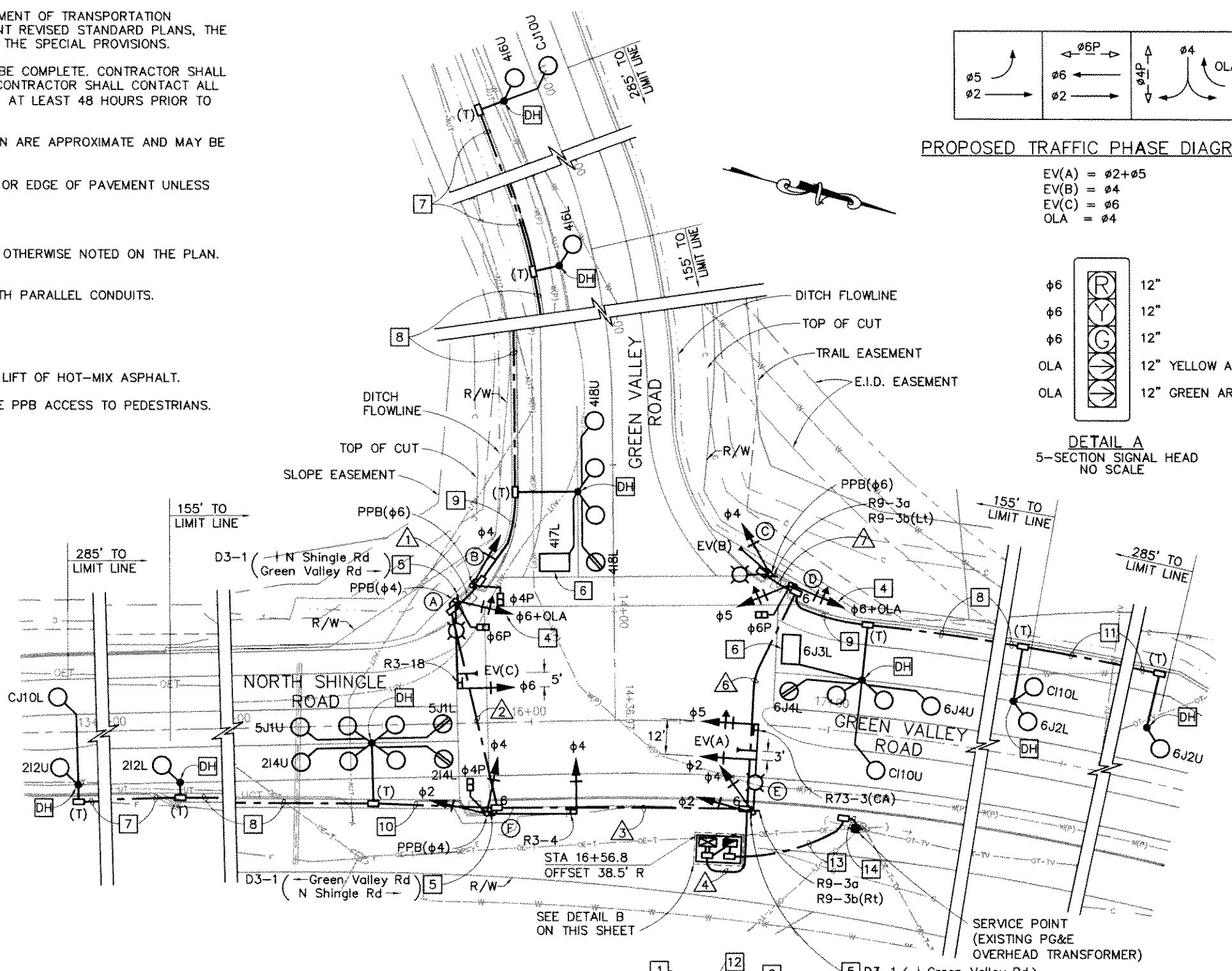
EV(A) = 02+05  
 EV(B) = 04  
 EV(C) = 06  
 OLA = 04



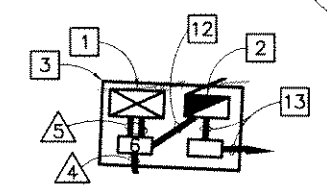
**DETAIL A**  
 5-SECTION SIGNAL HEAD  
 NO SCALE

**PROJECT NOTES: (FOR THIS SHEET ONLY)**

1. INSTALL MODEL P CABINET ASSEMBLY. FRONT DOOR OF CONTROLLER CABINET SHALL FACE EAST. SEE SHEET E-3 FOR DETAILS.
2. INSTALL 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, MT. CONDUIT SHALL BE INSTALLED 30" BELOW GRADE. CONTACT PG&E FOR SERVICE CONNECTION, TRENCH TO BE INSTALLED PER PG&E REQUIREMENTS.



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

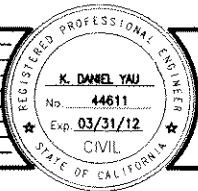


**DETAIL B**  
 SCALE: 1" = 10'

**TRAFFIC SIGNAL AND LIGHTING**  
 SCALE 1"=20'

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
*[Signature]*  
 REGISTERED CIVIL ENGINEER  
 DATE: 11/2/10

DESIGNED: M.J.L.  
 DRAWN: M.J.L.  
 CHECKED: K.D.Y.  
 DATE: 11/2/10  
 ROAD NUMBER: 000



**EL DORADO COUNTY**  
 DEPARTMENT OF TRANSPORTATION

**GREEN VALLEY ROAD AT TENNESSEE CREEK**  
 BRIDGE REPLACEMENT PROJECT  
**TRAFFIC SIGNAL PLAN**

SHEET  
**E-1**  
 37 OF 61  
 W.D. No. 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) #8, #4, #6P	POLE (A)		1	1	1	1	1	1							
	PPB(#6P) #4, #4P	POLE (B)	1	1	1	1	1	1	1							
	PPB(#6P) #4	POLE (C)				1	1	1	1	1						
	#5, #6, #4, #6P	POLE (D)				1	1	1	1							
	#2, #4, #5	POLE (E)				1	1	1	1							
	PPB(#4P) #2, #4, #4P	POLE (F)			1	1	1	1	1							
TOTAL CABLES 3/12 CONDUCTORS			1	1	2	2	3	3	4	6	4	6	1	2	1	1
#8	LIGHTING			2	2	2	2	2	2	2	2					
	SIGNAL NEUTRAL		1	1	1	1	1	1	1	1	1					
TOTAL #8 PER RUN			1	3	3	3	3	3	3	3	3					
TYPE B DLC	CONTROLLER SERVICE								2							
	2I2U					1	1	1								
	2I2L					1	1	1								
	2I4U/2I4L					2	2	2								
	4I6U		1	1	1	1	1	1								
	4I6L		1	1	1	1	1	1								
	4I8U/4I8L/4I7L		3	3	3	3	3	3								
	5J1U/5J1L					2	2	2								
	6J2U						1	1	1							
	6J2L						1	1	1							
	6J4U/6J4L/6J3L						3	3	3							
	C10U						1	1	1							
	C10L						1	1	1							
	CJ10U		1	1	1	1	1	1								
CJ10L						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	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	OFFSET	
(A)	19-3-100	30	15	MAS	SV-1-T	SP-1-T	4P	250	15+75.7	41.9' L	INSTALL R3-18 SIGN AND EV(C) ON SMA. INSTALL D3-1 SIGN ON SIGNAL STANDARD.
(B)	1-B				TV-1-T	SP-1-T	6P		15+81.2	46.9' L	
(C)	TYPE 15 TS		15		SV-1-T	SP-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-B				TV-2-T				16+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	SP-1-T	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.

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

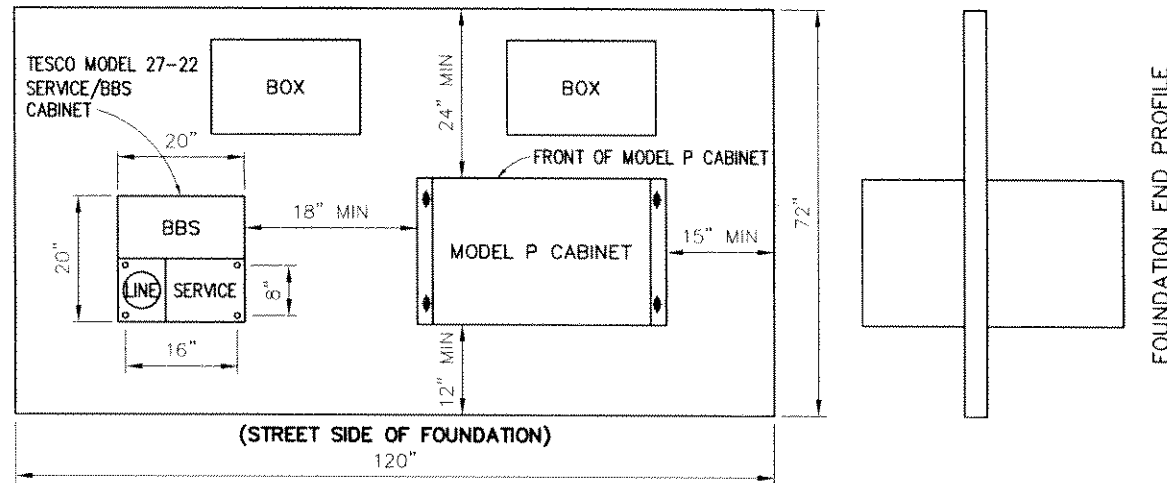
CONDUCTOR, POLE AND EQUIPMENT SCHEDULE  
NO SCALE

REVISION						PREPARED UNDER THE SUPERVISION OF:	DESIGNED:	DRAWN:		<b>EL DORADO COUNTY</b> DEPARTMENT OF TRANSPORTATION	GREEN VALLEY ROAD AT TENNESSEE CREEK BRIDGE REPLACEMENT PROJECT <b>TRAFFIC SIGNAL PLAN</b>	SHEET
	NUMBER	DATE	DESCRIPTION	BY		REGISTERED CIVIL ENGINEER 11/2/10	M.J.L. M.J.L. 11/2/10	000				38 OF 61 77109

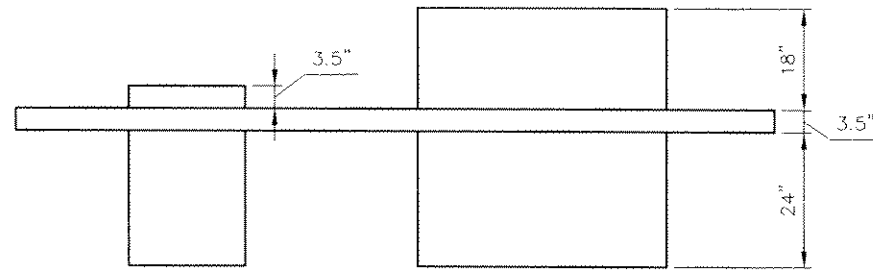


IN ADDITION TO MEETING ALL CURRENT CALTRANS SPECIFICATIONS, THE FOUNDATION FOR THE ELECTRICAL SYSTEMS CONTROLLER CABINET SHALL MEET THE FOLLOWING EL DORADO COUNTY SPECIAL PROVISIONS:

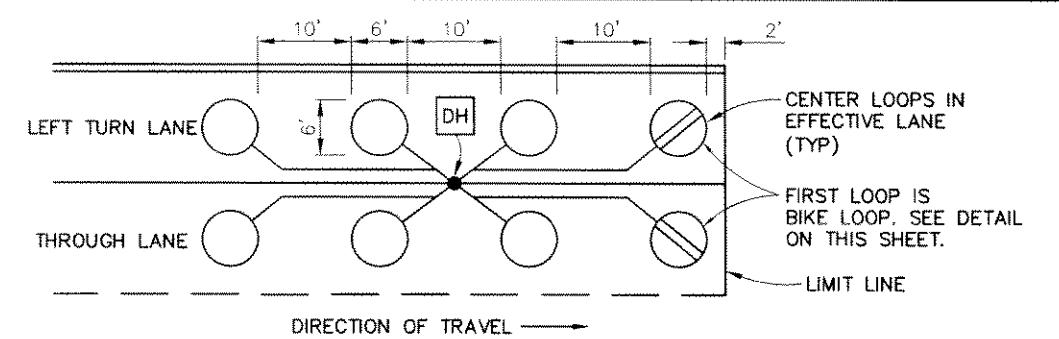
- SERVICE SHALL CONSIST OF A TESCO 27-22 TYPE III-AF/BBS COMBO.
- ELECTRICAL PULL BOXES SHALL NOT BE LOCATED IN PEDESTRIAN TRAVELWAY (SIDEWALK).
- CABINET DOORS SHALL NOT PROTRUDE INTO PEDESTRIAN TRAVELWAY (SIDEWALK) WHEN OPEN.
- IN NO CASE SHALL THE SIGNAL CABINET, BATTERY BACKUP CABINET OR SERVICE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



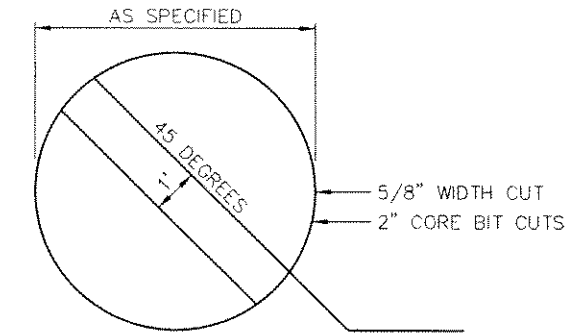
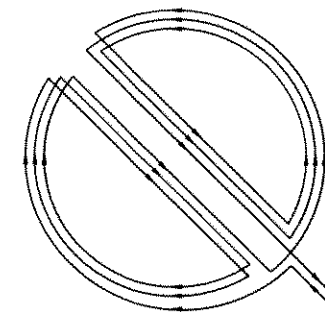
FOUNDATION END PROFILE



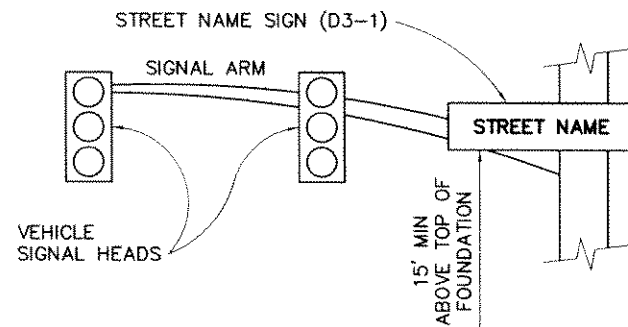
**FOUNDATION SIDE PROFILE**  
**TYPICAL SIGNAL CONTROLLER PAD**  
**MODEL P CABINET W/18" RISER**  
NO SCALE



**TYPICAL DETECTOR LOOP LAYOUT**  
NO SCALE

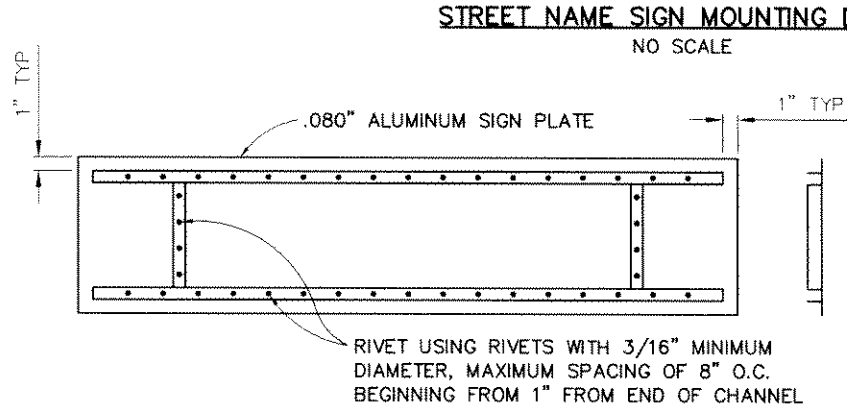


**TYPE E BIKE LOOP DETAIL**  
NO SCALE

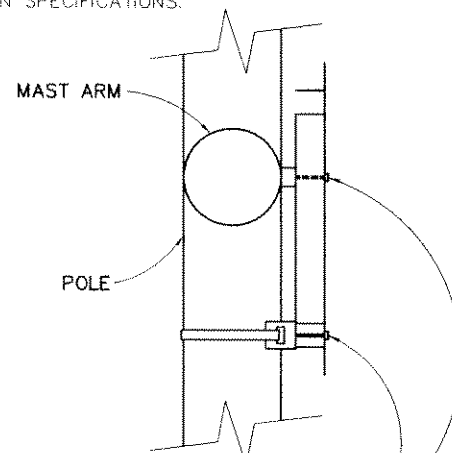


**STREET NAME SIGN MOUNTING DETAIL**  
NO SCALE

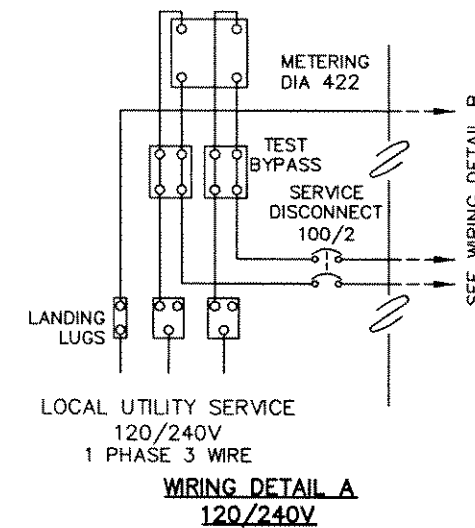
- NOTES:
- ALL HANGER COMPONENTS TO BE GALVANIZED, EXCEPT STAINLESS STEEL BANDS.
  - ATTACH SIGN TO POLE AND SIGNAL MAST ARM VIA SADDLE BRACKETS.
  - SEE SHEET E-1 FOR MESSAGE.
  - SEE SPECIAL PROVISIONS FOR SIGN SPECIFICATIONS.



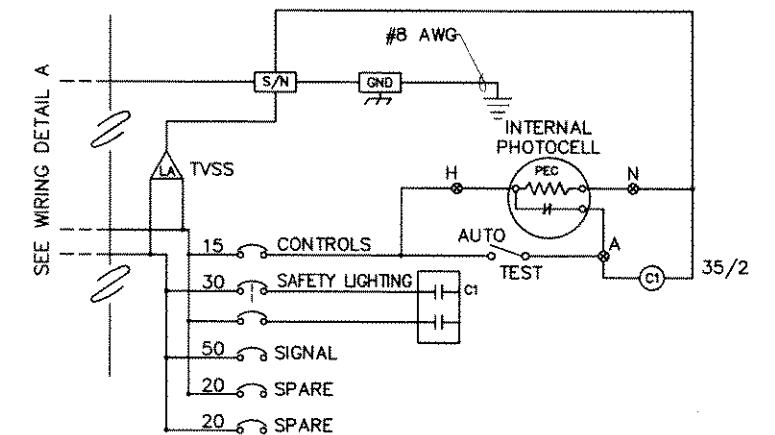
**SIGN FRAME/RIVET DETAIL**  
NO SCALE



**SIGN MOUNTING DETAIL**  
NO SCALE



**WIRING DETAIL A**  
120/240V



**WIRING DETAIL B**

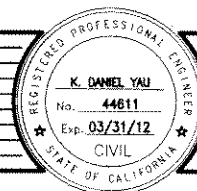
**TRANSIENT VOLTAGE SURGE SUPPRESSION (TVSS)**  
**SERVICE EQUIPMENT WIRING DIAGRAM**

NO SCALE

**TRAFFIC SIGNAL INSTALLATION**  
**CONSTRUCTION DETAILS**  
NO SCALE

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
*[Signature]*  
REGISTERED CIVIL ENGINEER  
DATE: 11/2/10

DESIGNED: M.J.L.  
DRAWN: M.J.L.  
CHECKED: K.D.Y.  
DATE: 11/2/10  
ROAD NUMBER: 000

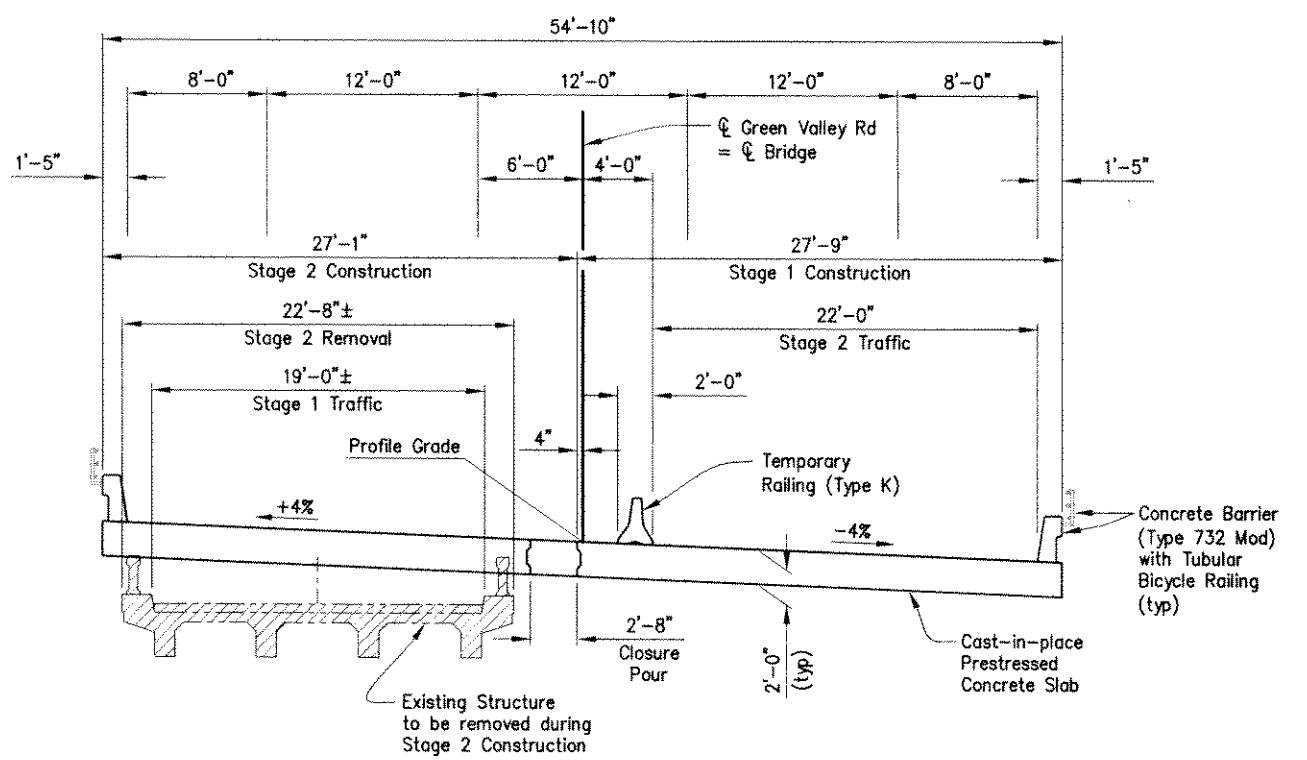
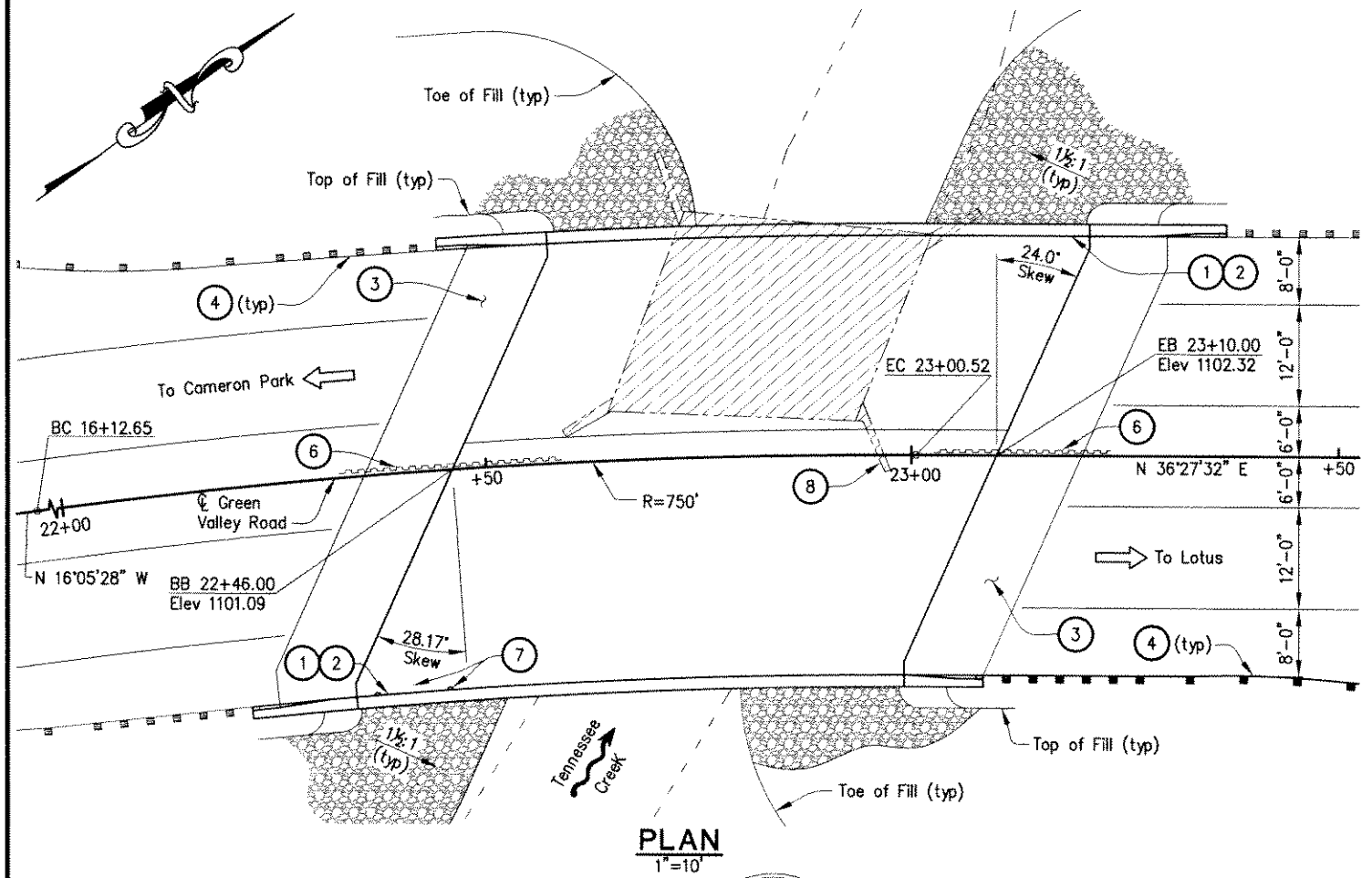
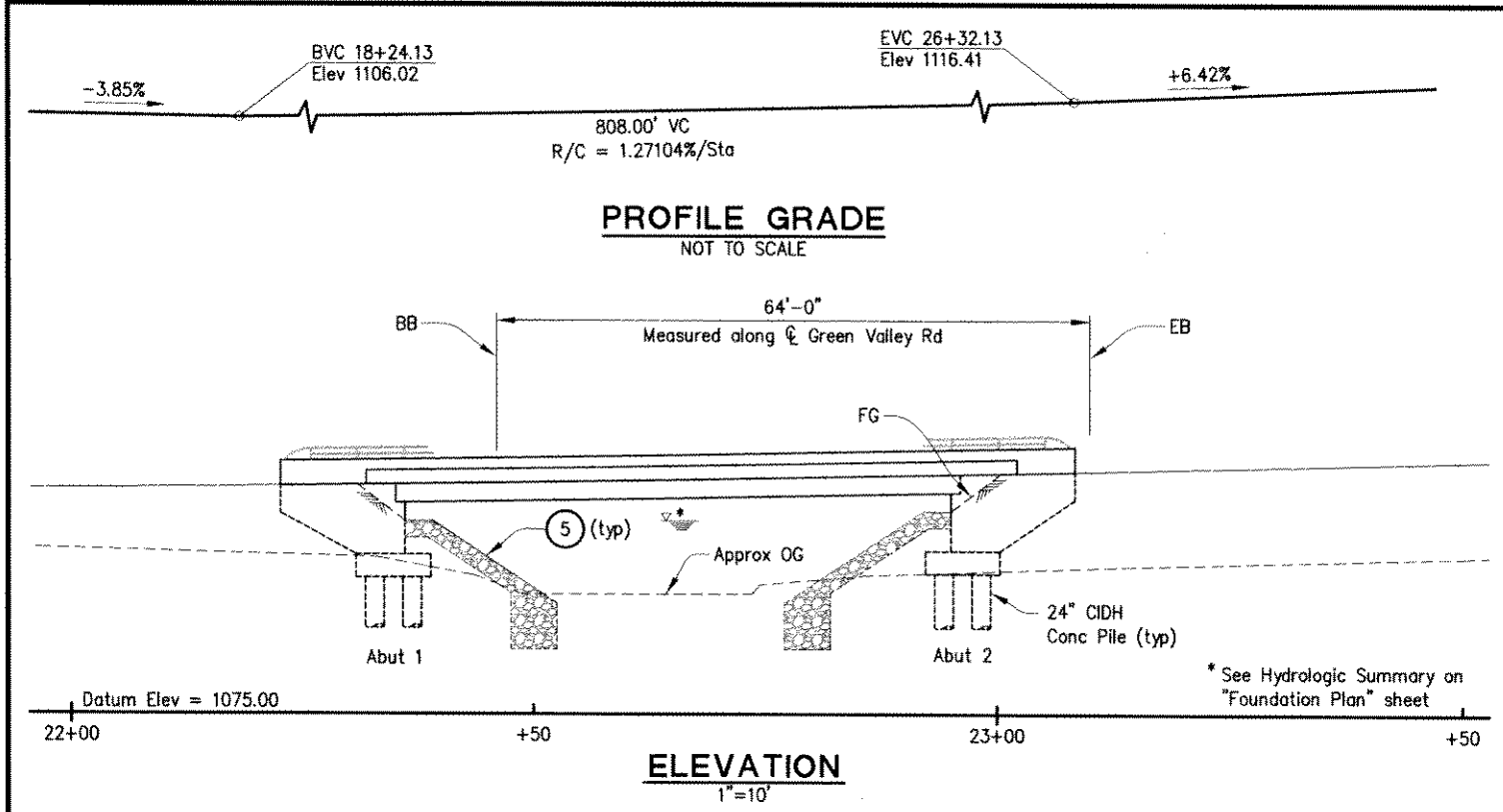


**EL DORADO COUNTY**  
**DEPARTMENT OF TRANSPORTATION**

**GREEN VALLEY ROAD AT TENNESSEE CREEK**  
**BRIDGE REPLACEMENT PROJECT**  
**TRAFFIC SIGNAL PLAN**

SHEET  
**E-3**  
39 OF 61  
W.D. No. 77109

Drawing name: C:\Civil 3D Projects\77109 Tennessee Creek\CADD Files\Sheets\S-1.dwg Layout Tab: S-1 Dec 14, 2010 10:25am Dharrington  
 ORIGINAL SCALE IS IN INCHES  
 FOR REDUCED PLANS



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

**NOTES:**

- ① Paint "Green Valley Road Bridge"
- ② Paint "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

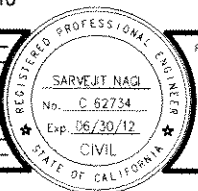
For General Notes, see "Deck Contours" sheet.

**LEGEND:**

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

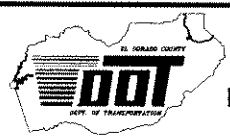
**CURVE DATA**  
 R = 750'  
 Δ = 52°32'59"  
 T = 370.26'  
 L = 687.87'

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
 REGISTERED CIVIL ENGINEER  
 DATE: 11/2/10

DESIGNED: S.N. A.C.  
 CHECKED: J.G. DATE: 11/08/09  
 ROAD NUMBER: 25C0038

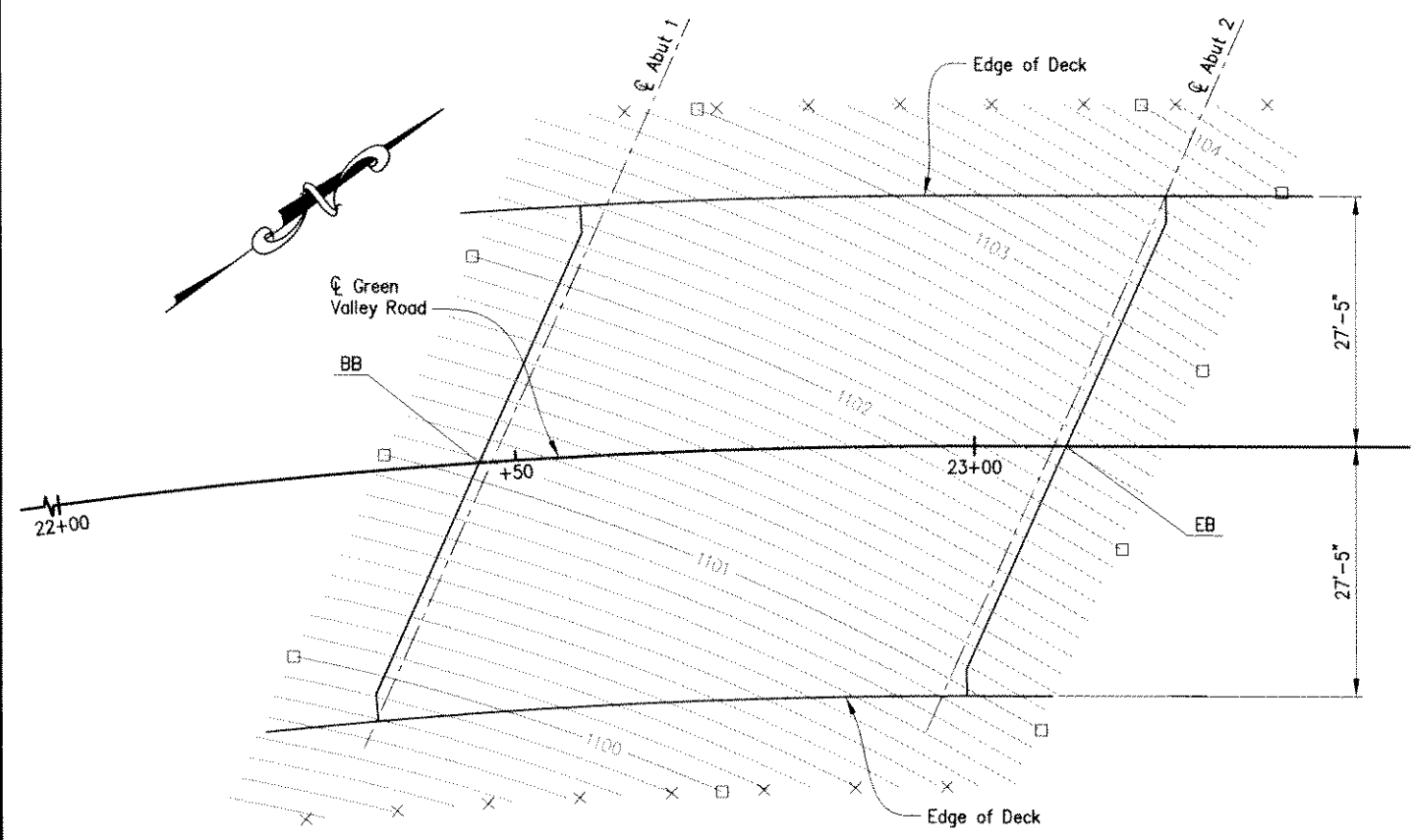


**EL DORADO COUNTY**  
 DEPARTMENT OF TRANSPORTATION

**GREEN VALLEY ROAD AT TENNESSEE CREEK**  
 BRIDGE REPLACEMENT PROJECT  
 GENERAL PLAN

SHEET  
**S-1**  
 40 OF 61  
 W.D. No. 77109

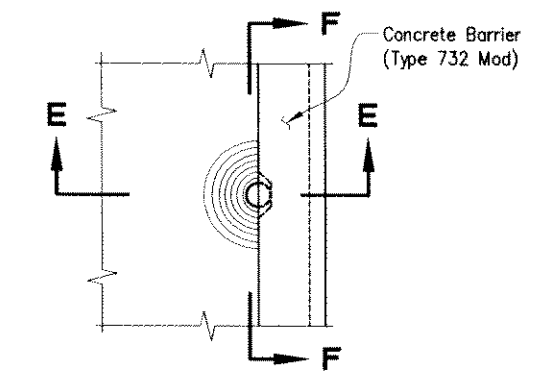
Drawing name: C:\Civil 3D\Projects\77109 Tennessee Creek\CADD Files\Sheets\S-2.dwg Layout Tab: S-2 Dec 14, 2010 10:20am DHarrington  
 ORIGINAL SCALE IS IN INCHES  
 FOR REDUCED PLANS



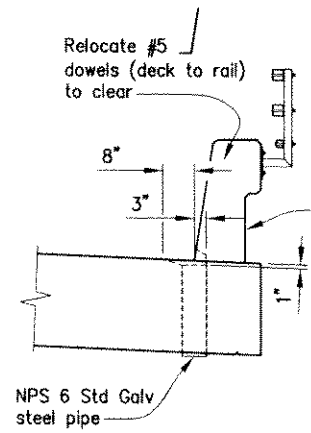
**DECK CONTOURS**  
1"=10'

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

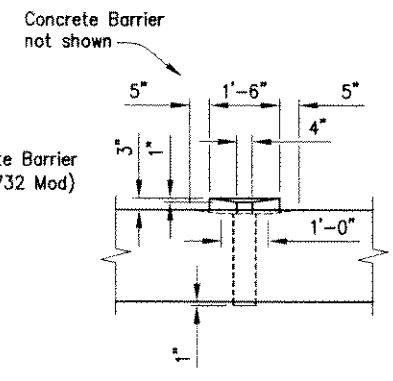
NOTE: THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL, OR PERFORMING STRUCTURE EXCAVATION.



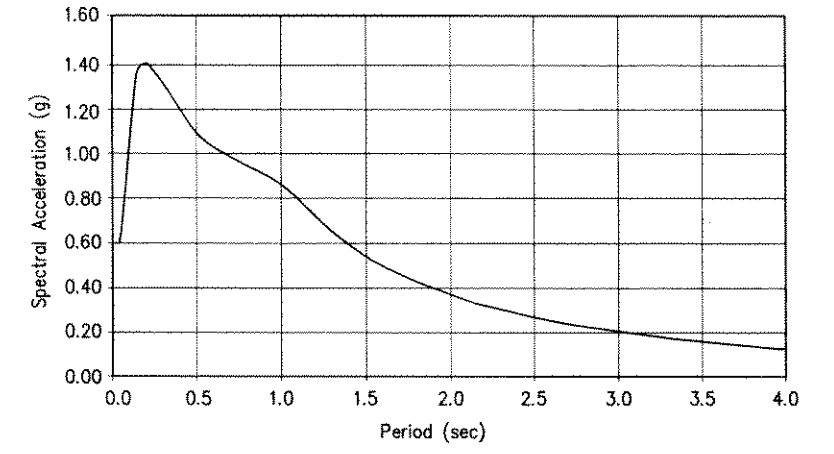
**DECK DRAIN TYPE "B"**  
1/2"=1'-0"



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



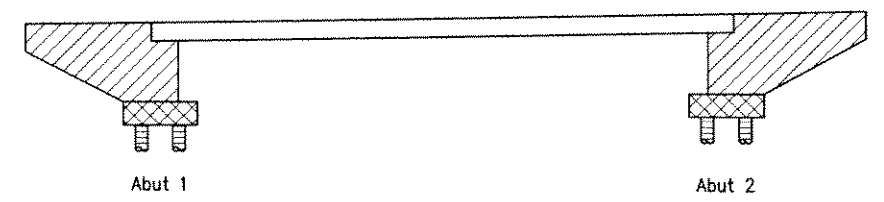
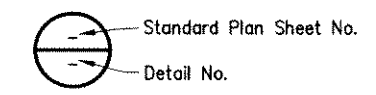
**SECTION F-F**  
1/2"=1'-0"



**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  
 $n = 8$

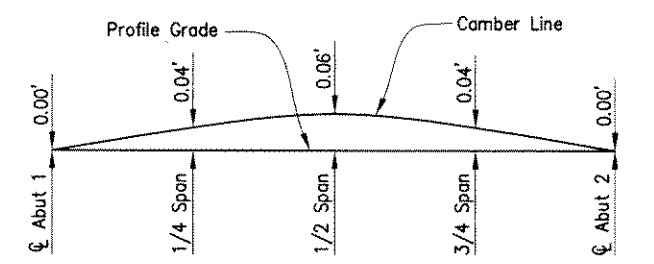
**SEISMIC LOADING:** Site Specific ARS Curve, PBA = 0.6g

**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

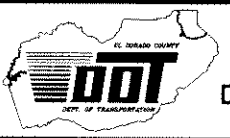
Note: Camber Diagram does not include allowances for falsework deflection or settlement

REVISION NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
  
 REGISTERED CIVIL ENGINEER  
 DATE: 11/2/10

DESIGNED: S.N. A.C.  
 CHECKED: J.G. DATE: 11/06/09  
 ROAD NUMBER: 250038

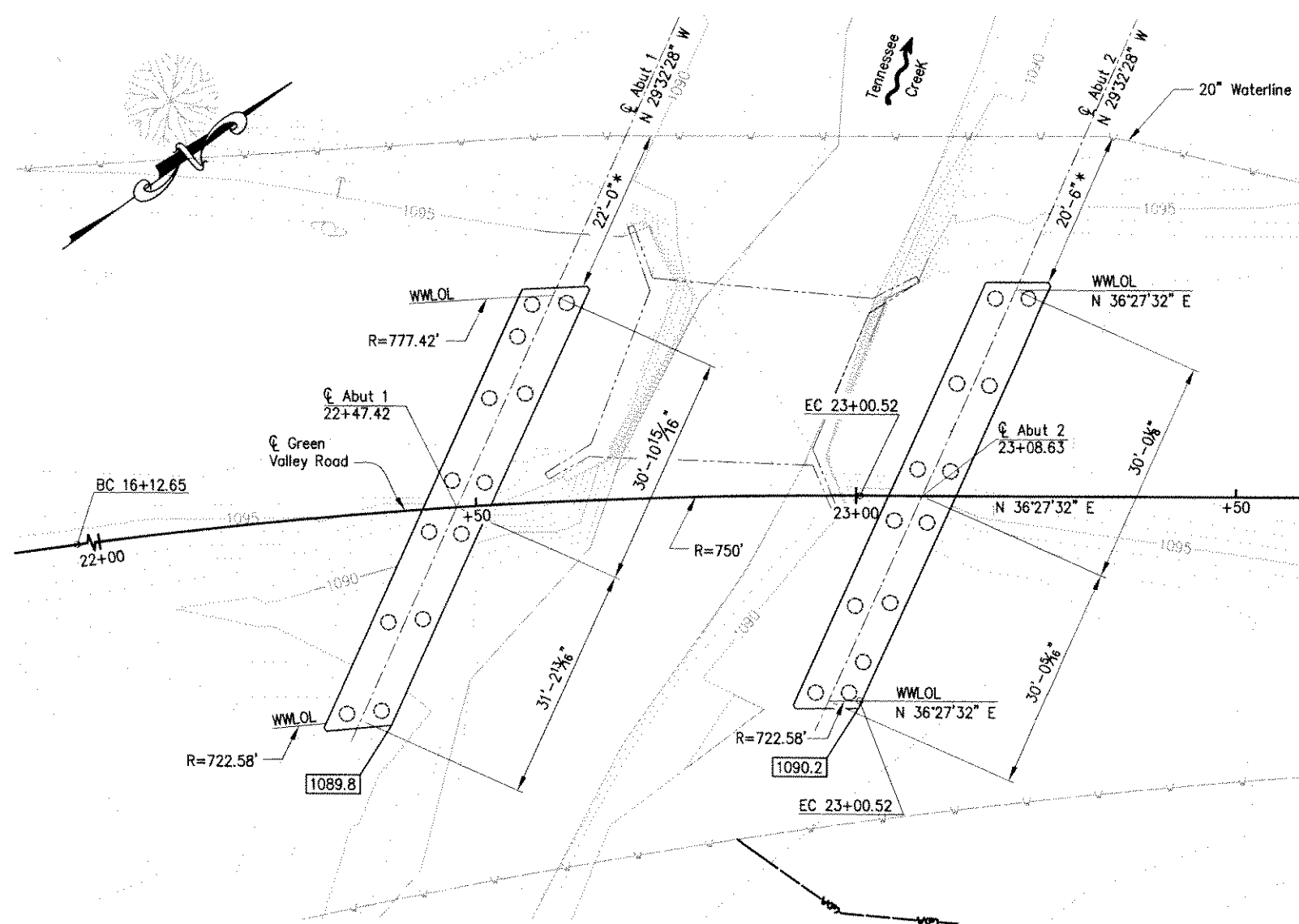


**EL DORADO COUNTY**  
DEPARTMENT OF TRANSPORTATION

**GREEN VALLEY ROAD AT TENNESSEE CREEK**  
BRIDGE REPLACEMENT PROJECT  
**DECK CONTOURS**

SHEET **S-2**  
41 OF 61  
W.O. No. 77109

Drawing name: C:\Civil\3D\Projects\77109 Tennessee Creek\CADD Files\Sheets\S-3.dwg Layout Tab: S-3 Dec 14, 2010 -- 10:30am BHarrington



\* 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		
Abut 1	24"Ø CIDH	N/A	400	0	1065.00 (1); 1065.00 (3)	1065.00
Abut 2	24"Ø CIDH	N/A	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:**

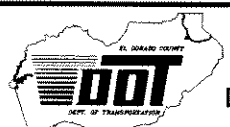
- Indicates New Structure
- - - Indicates Existing Structure
- Indicates 24"Ø CIDH Piles
- XXXX.X Indicates bottom of footing elevation
- ~ Indicates Direction of Water Flow

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
SARVEJIT NAGI  
REGISTERED CIVIL ENGINEER  
DATE: 11/2/10

DESIGNED: S.N. A.C.  
CHECKED: J.G. DATE: 11/06/09  
ROAD NUMBER: 25C003B

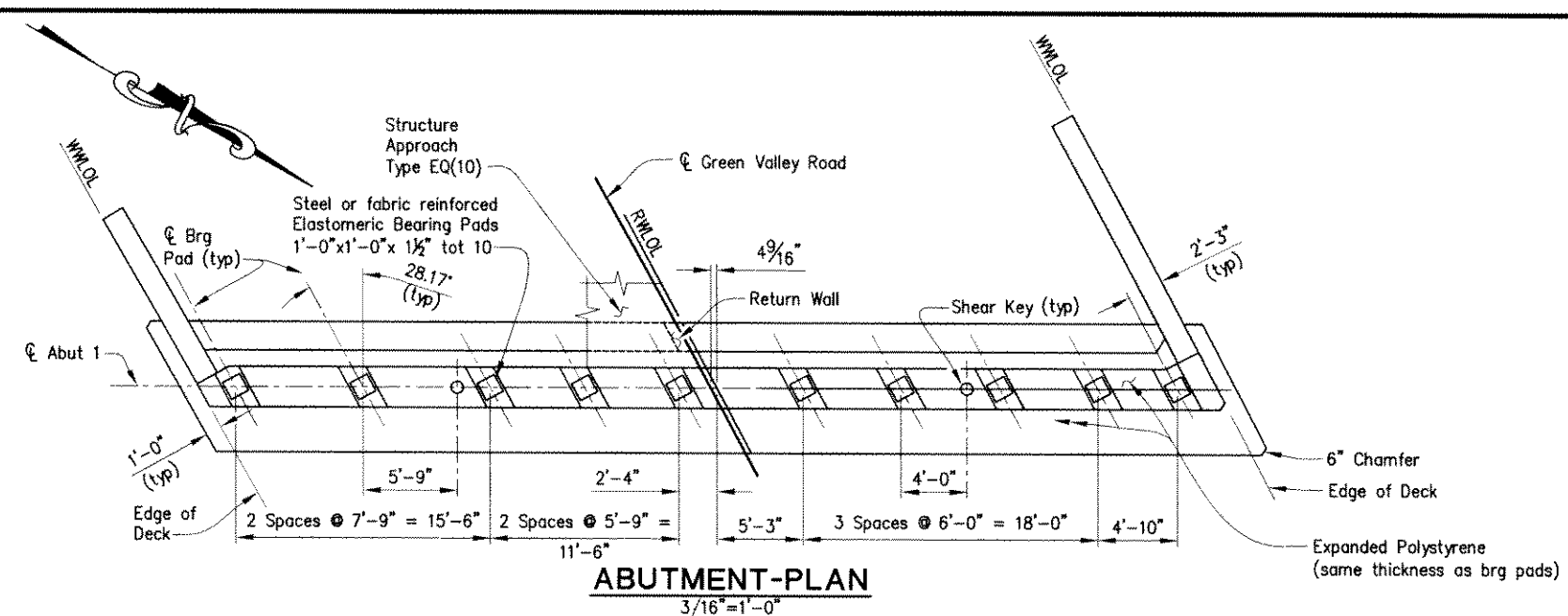


**EL DORADO COUNTY**  
**DEPARTMENT OF TRANSPORTATION**

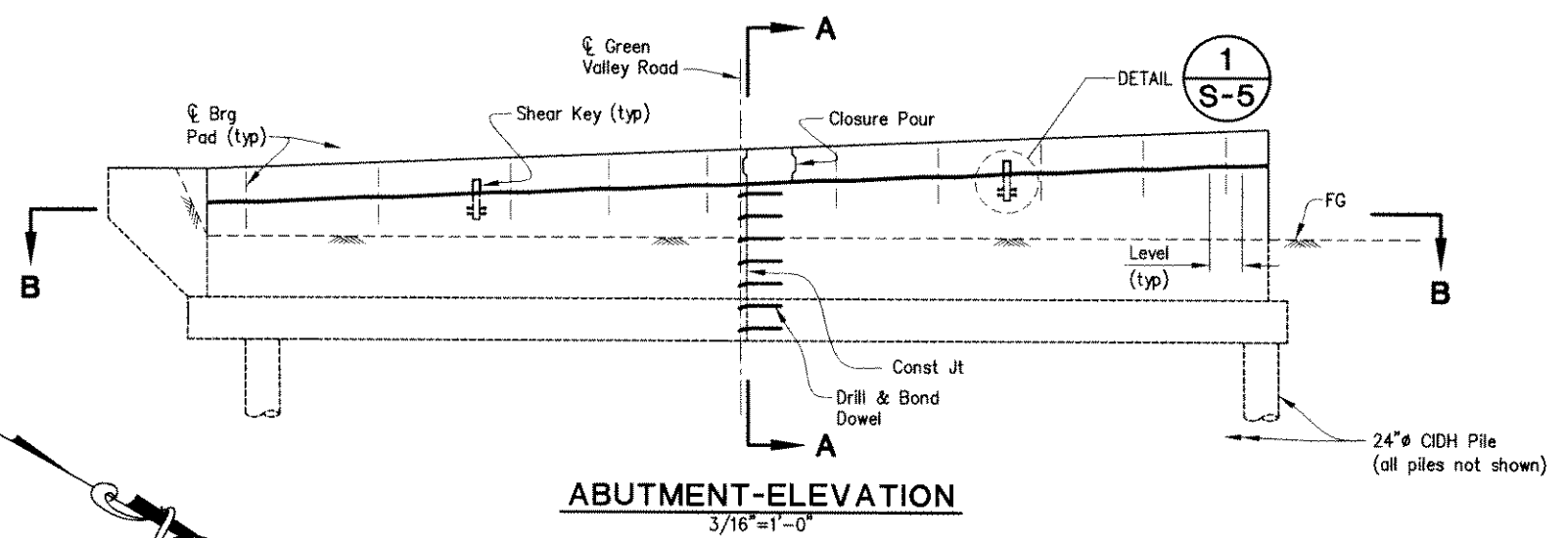
**GREEN VALLEY ROAD AT TENNESSEE CREEK**  
**BRIDGE REPLACEMENT PROJECT**  
**FOUNDATION PLAN**

SHEET  
**S-3**  
42 OF 61  
W.D. No. **77109**

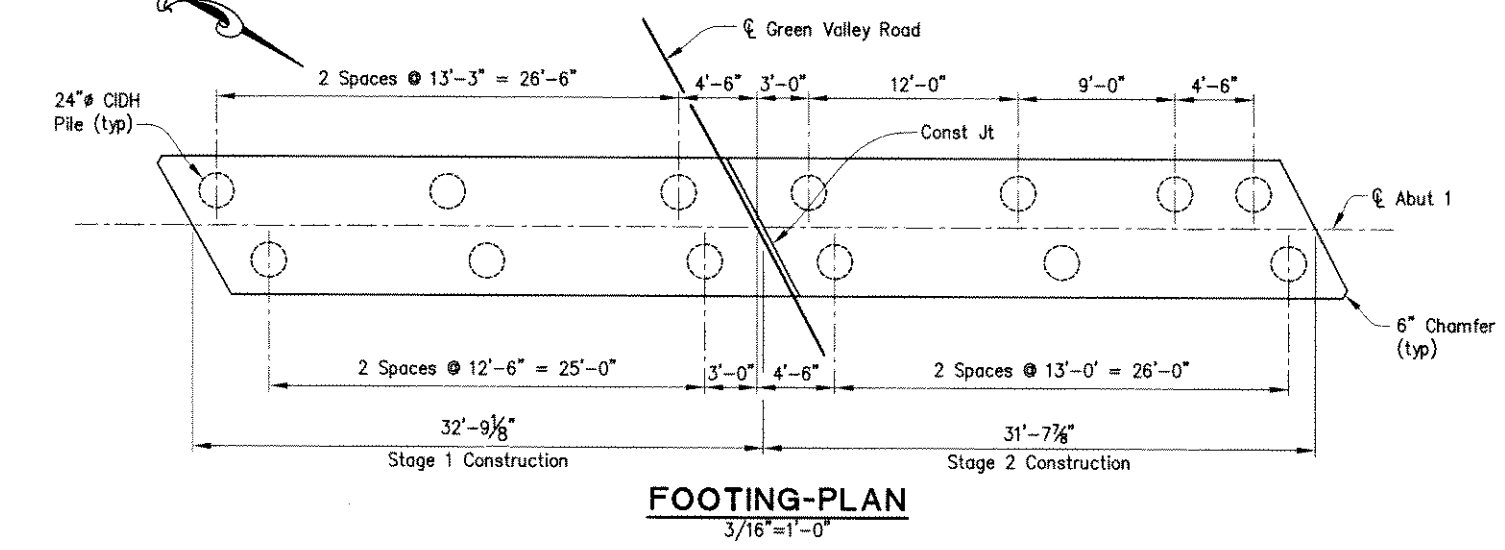
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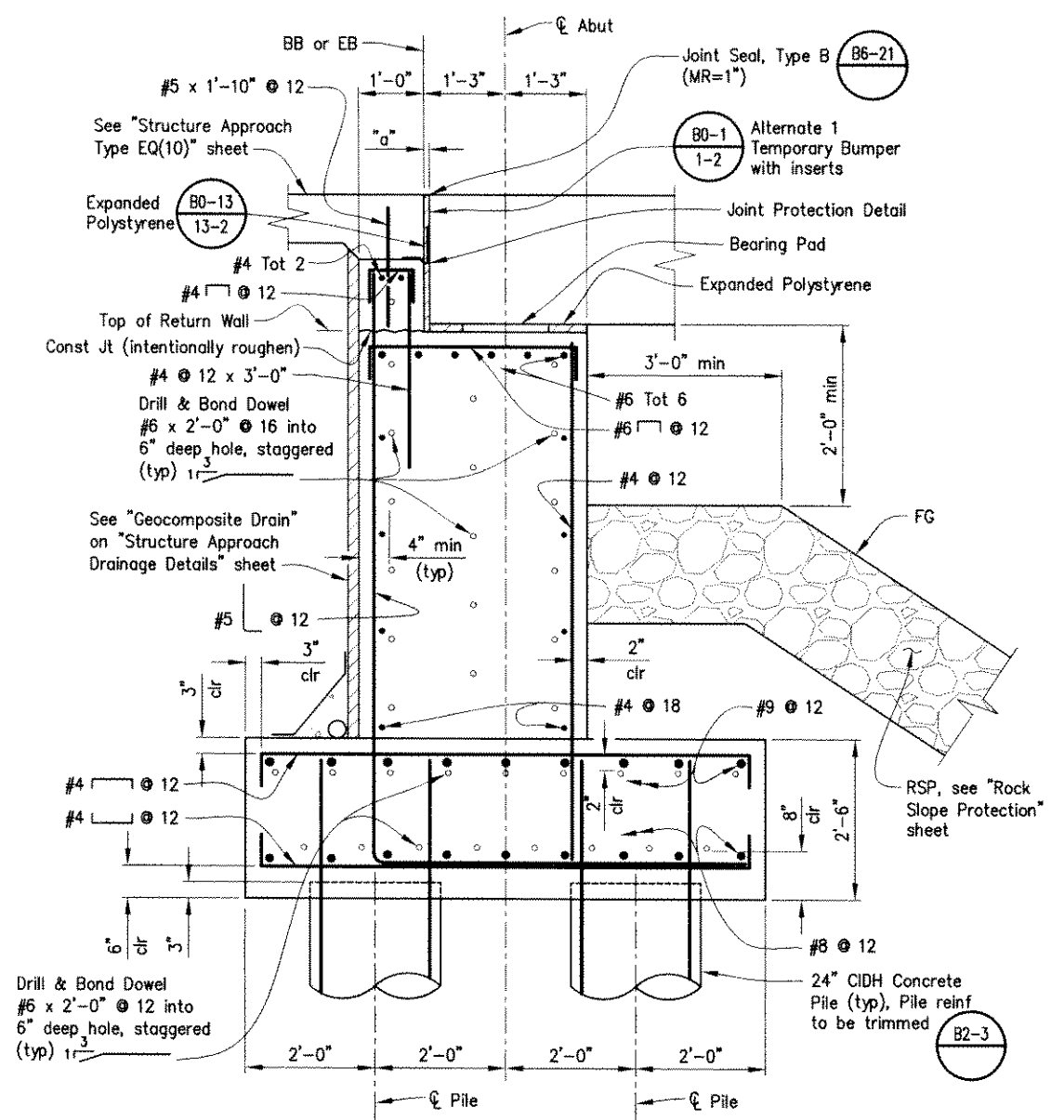
**ABUTMENT-PLAN**  
3/16"=1'-0"



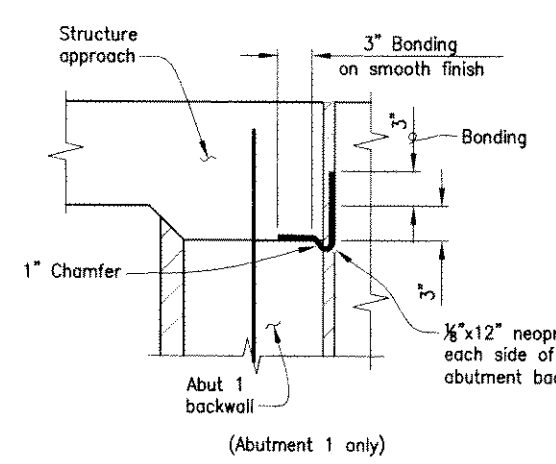
**ABUTMENT-ELEVATION**  
3/16"=1'-0"



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



**SECTION A-A**  
3/4"=1'-0"



**JOINT PROTECTION DETAIL**  
1/2"=1'-0"

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

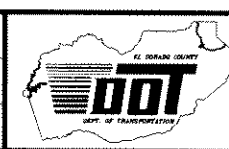
- NOTES:**
1. For Section B-B, see "Abutment 2 Layout" sheet.
  2. For Abutment 2 seat details, see "Continuous Shear Key" detail, on "Abutment Details" sheet.

REVISION	NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER  
**SARVEJIT NAGI**  
 No. C 62734  
 Exp. 06/30/12  
 CIVIL  
 STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF:  
  
 REGISTERED CIVIL ENGINEER  
 DATE: 11/2/10

DESIGNED: S.N.	DRAWN: A.C.
CHECKED: J.G.	DATE: 11/06/09
ROAD NUMBER: 25C0038	



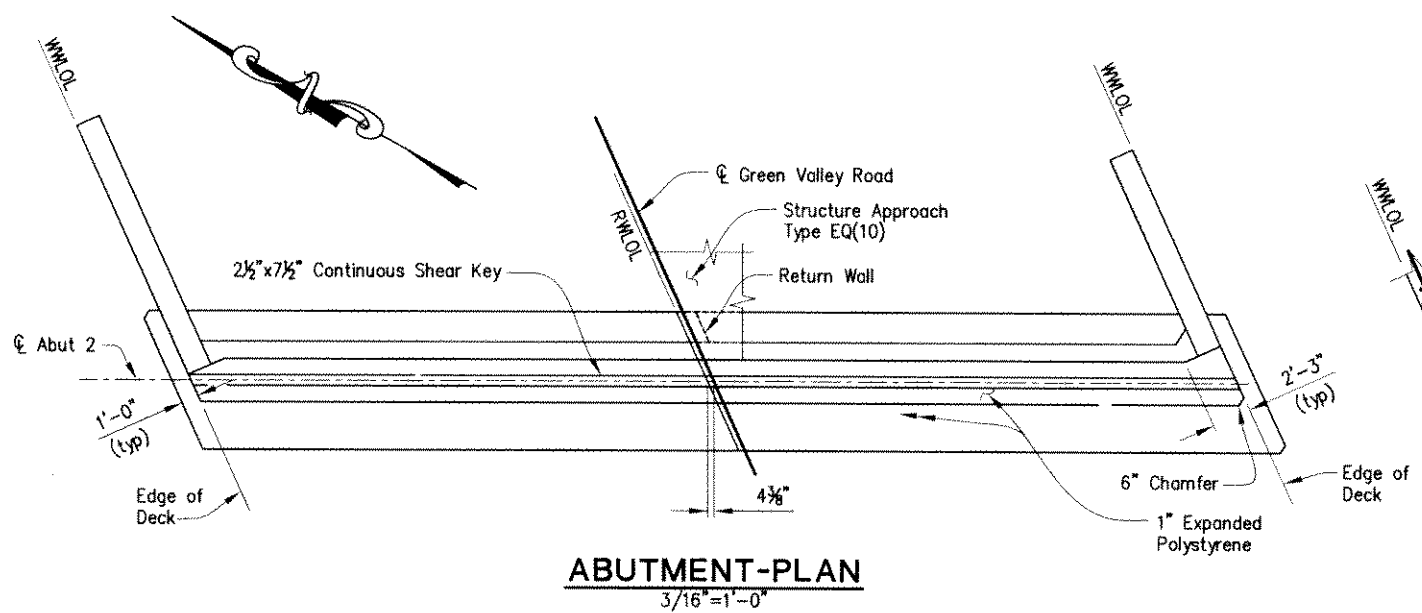
**EL DORADO COUNTY**  
 DEPARTMENT OF TRANSPORTATION

**GREEN VALLEY ROAD AT TENNESSEE CREEK**  
 BRIDGE REPLACEMENT PROJECT  
**ABUTMENT 1 LAYOUT**

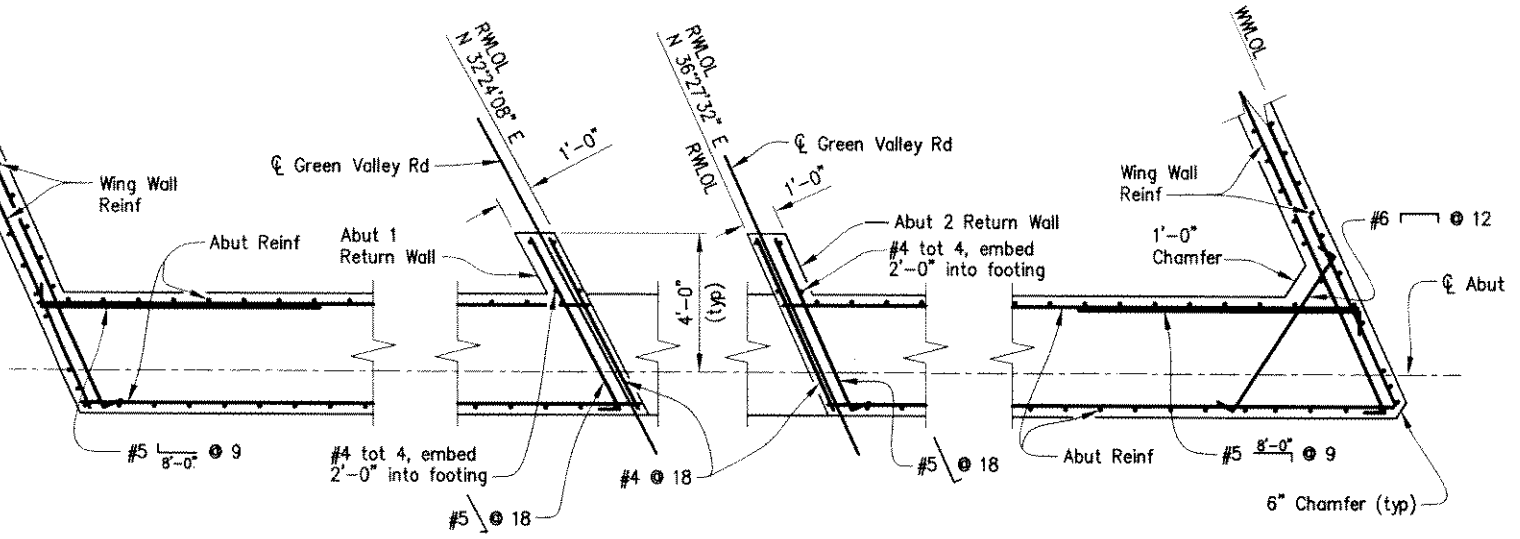
SHEET	S-4
43 OF 61	
W.O. No.	77109



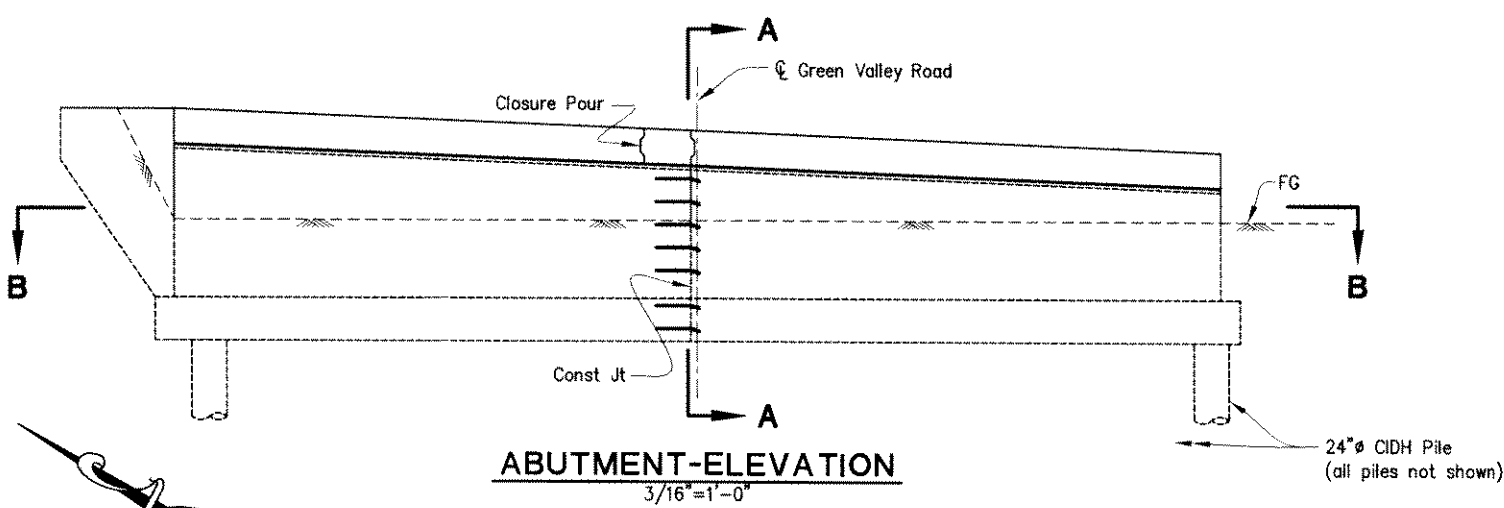
Drawing name: C:\Civil\_3D\Projects\77109 Tennessee Creek\CADD Files\Sheets\S-5.dwg Layout Tab: S-5 Dec 14, 2010 10:34am DHarrington  
 ORIGINAL SCALE IS IN INCHES  
 FOR REDUCED PLANS



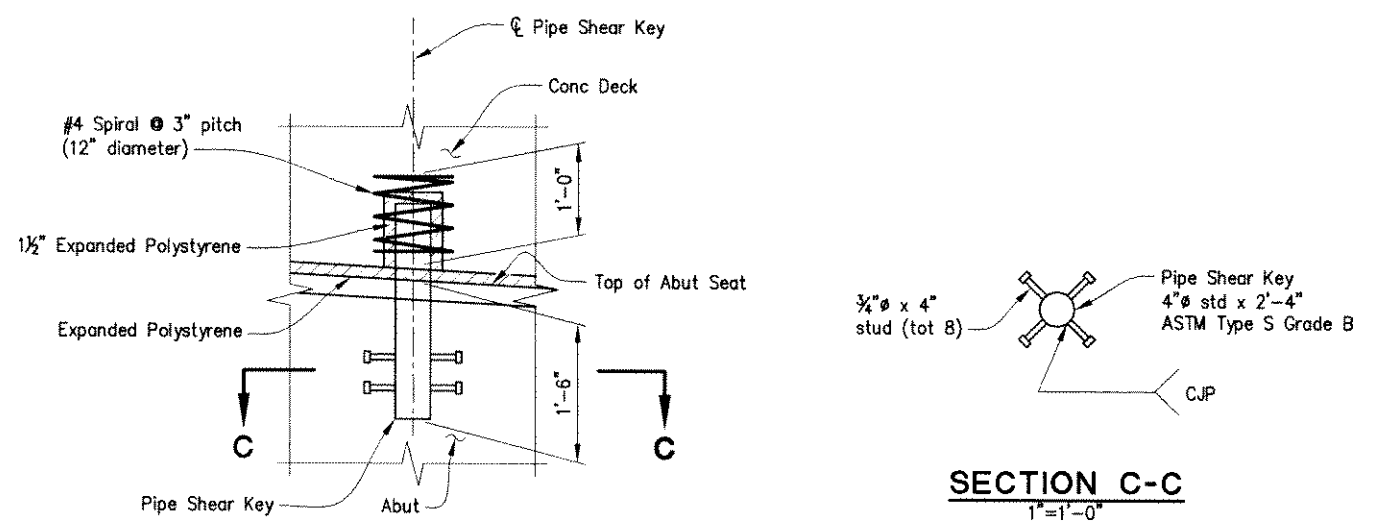
**ABUTMENT-PLAN**  
3/16"=1'-0"



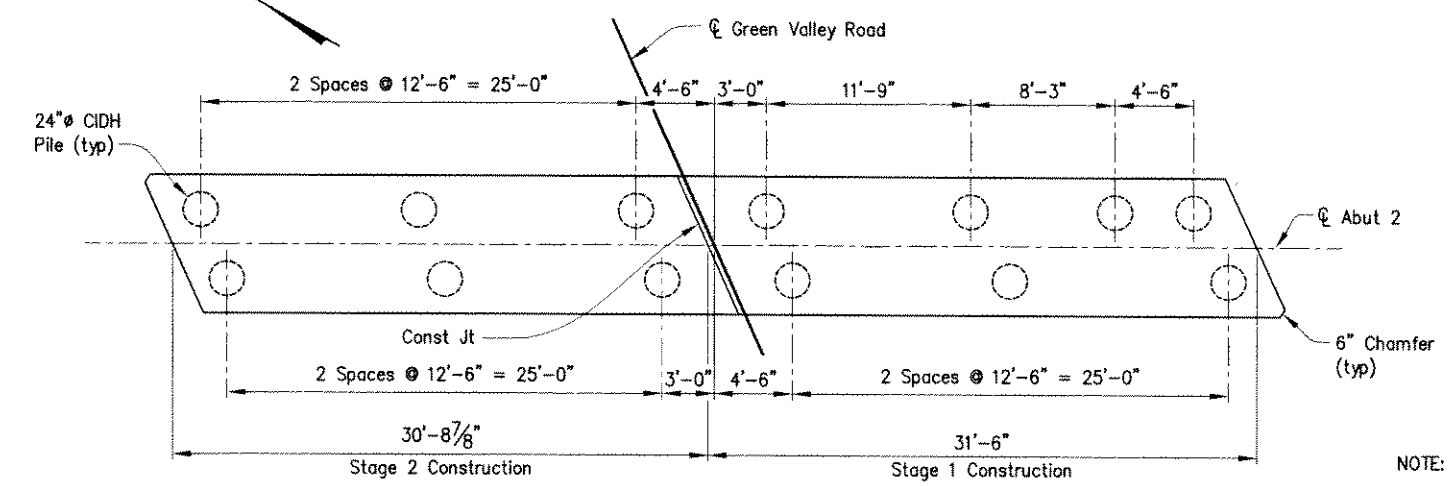
**SECTION B-B**  
3/8"=1'-0"  
Note: Stage 1 Construction shown, Stage 2 Construction similar but without return walls.



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



**DETAIL 1**  
1"=1'-0"

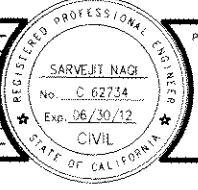


**FOOTING-PLAN**  
3/16"=1'-0"

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

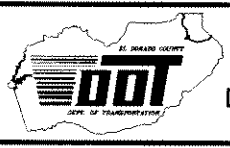
NOTE:  
1. For Section A-A, see "Abutment 1 Layout" sheet.

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF  
 SARVEJIT NAGI  
 No. C 62734  
 Exp. 06/30/12  
 CIVIL  
 REGISTERED CIVIL ENGINEER  
 DATE: 11/2/10

DESIGNED: S.N. A.C.  
 DRAWN: A.C.  
 CHECKED: J.G. DATE: 11/06/09  
 ROAD NUMBER: 25C0038

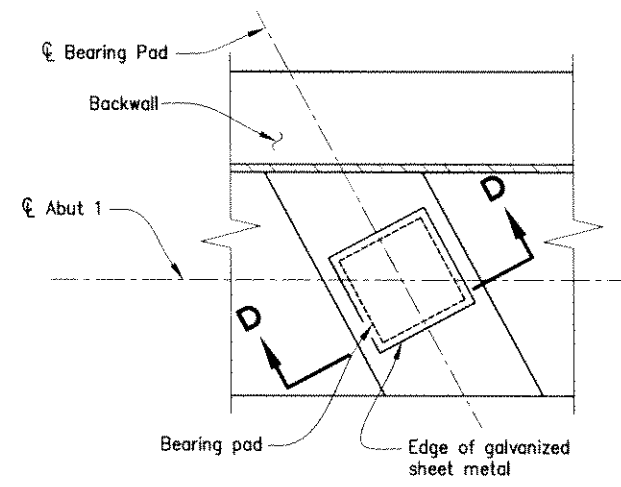


EL DORADO COUNTY  
 DEPARTMENT OF TRANSPORTATION

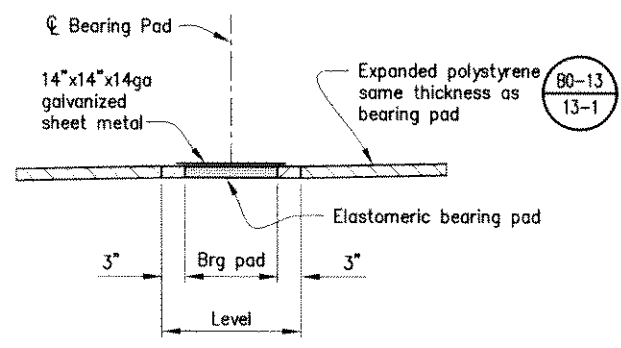
GREEN VALLEY ROAD AT TENNESSEE CREEK  
 BRIDGE REPLACEMENT PROJECT  
 ABUTMENT 2 LAYOUT

SHEET  
 S-5  
 44 OF 61  
 W.D. No. 77109

Drawing name: C:\Civil 3D Projects\77109 Tennessee Creek\CADD Files\Sheets\S-6.dwg Layout Tab: S-6 Dec 14, 2010 10:39am Dharrngto  
 ORIGINAL SCALE IS IN INCHES  
 FOR REDUCED PLANS

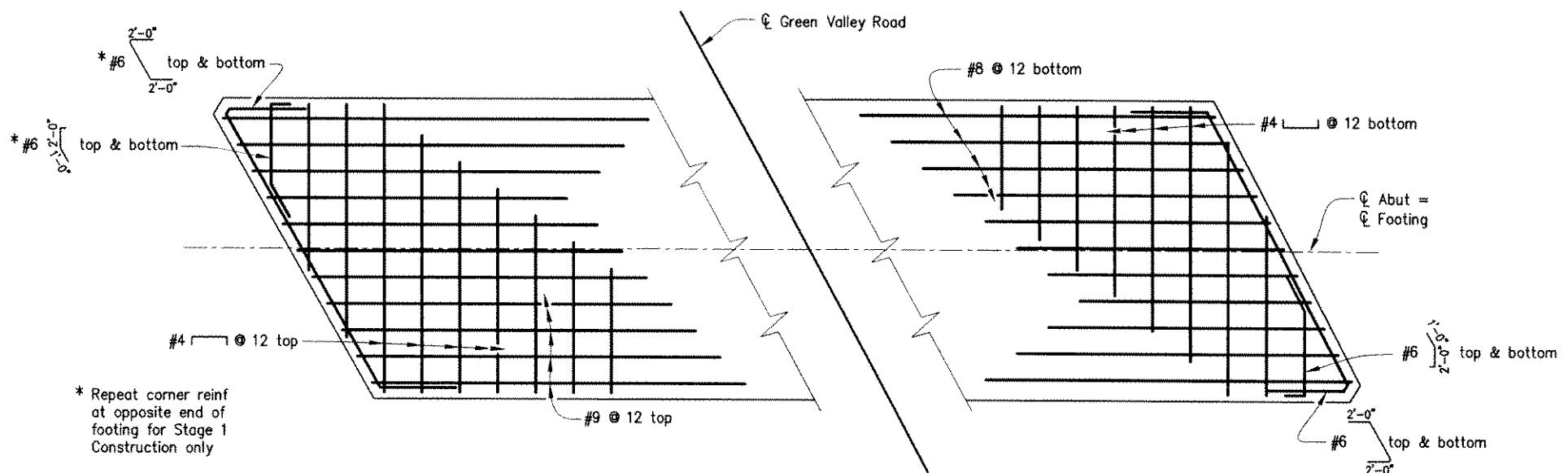


**PLAN**

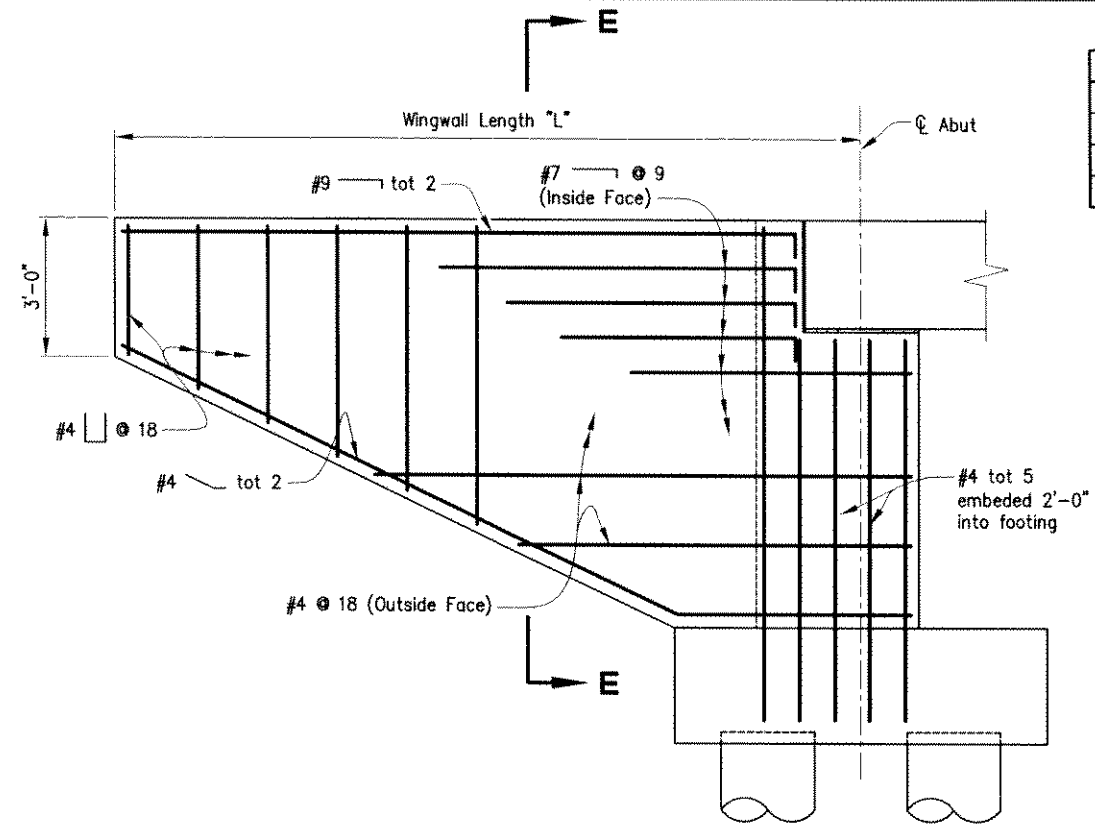


**SECTION D-D**

**BEARING PAD DETAIL**  
1"=1'-0"

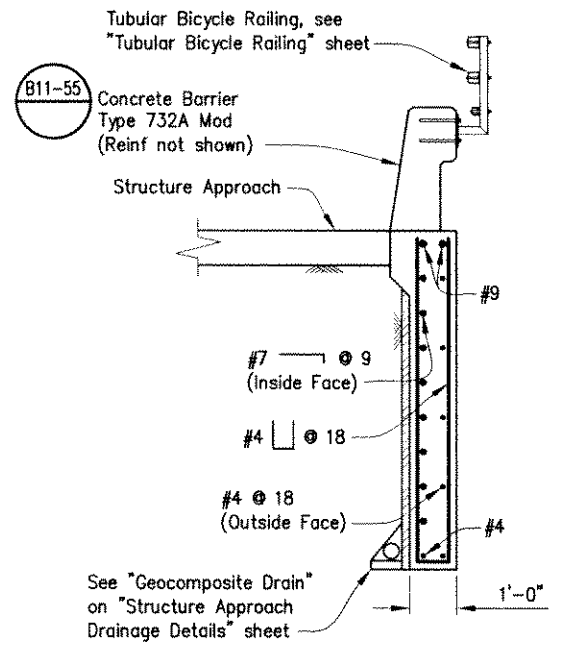


**FOOTING REINFORCEMENT**  
1/2"=1'-0"



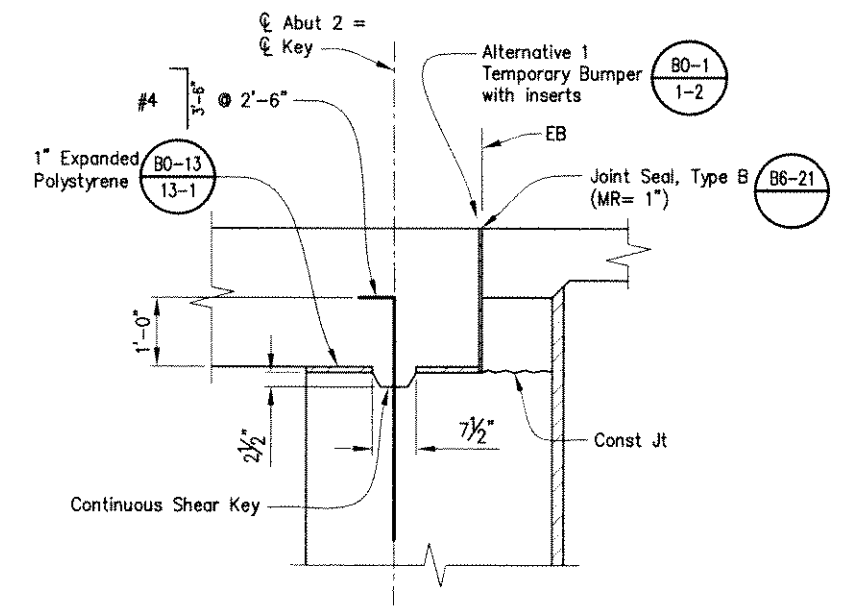
**WINGWALL ELEVATION**  
1/2"=1'-0"

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



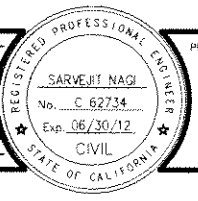
**SECTION E-E**  
1/2"=1'-0"

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



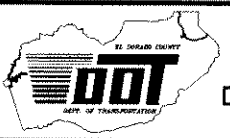
**CONTINUOUS SHEAR KEY**  
3/4"=1'-0"

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
 REGISTERED CIVIL ENGINEER  
 DATE: 11/2/10

DESIGNED: S.N. A.C.  
 CHECKED: J.G. DATE: 11/06/09  
 ROAD NUMBER: 25C0038



**EL DORADO COUNTY**  
 DEPARTMENT OF TRANSPORTATION

**GREEN VALLEY ROAD AT TENNESSEE CREEK**  
 BRIDGE REPLACEMENT PROJECT  
 ABUTMENT DETAILS

SHEET  
**S-6**  
 45 OF 61  
 W.D. No. 77109

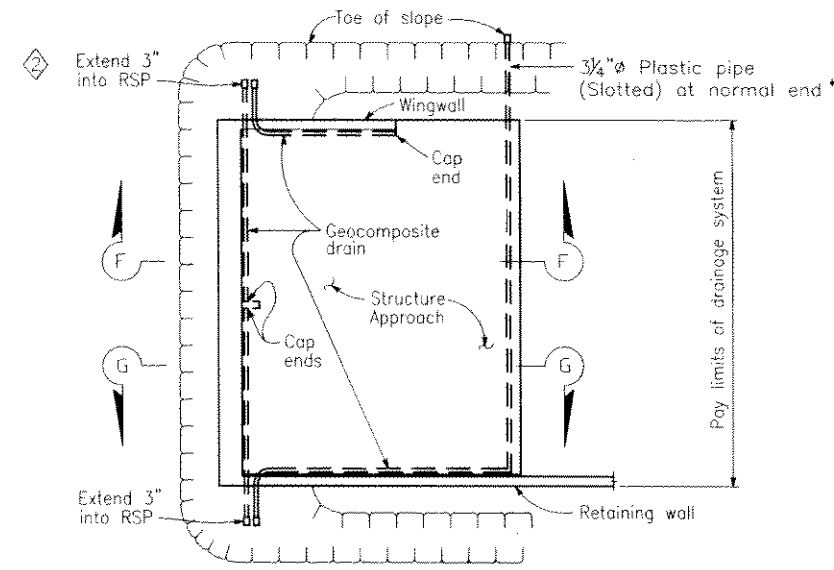


DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	ED					

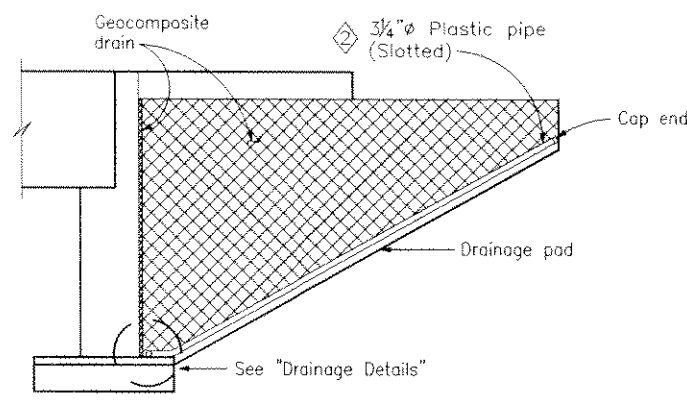
REGISTERED ENGINEER - CIVIL	
11/2/10	
PLANS APPROVAL DATE	

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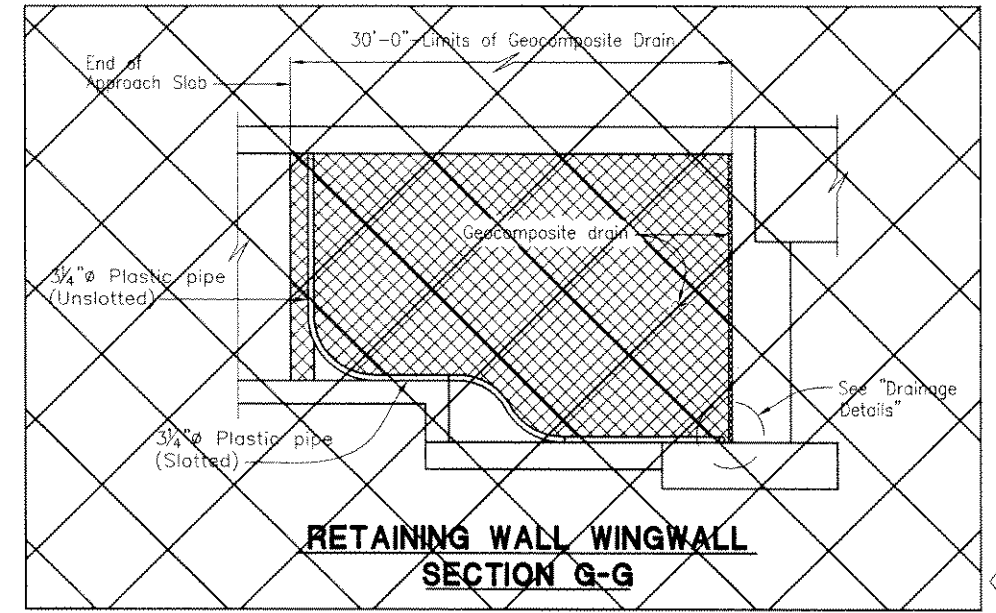


**TYPICAL PLAN**

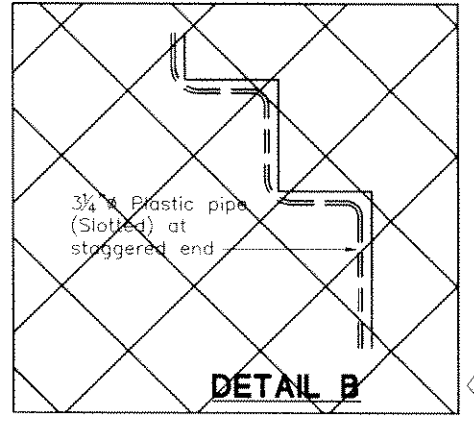
\* For pipe layout at staggered end, see "Detail B".



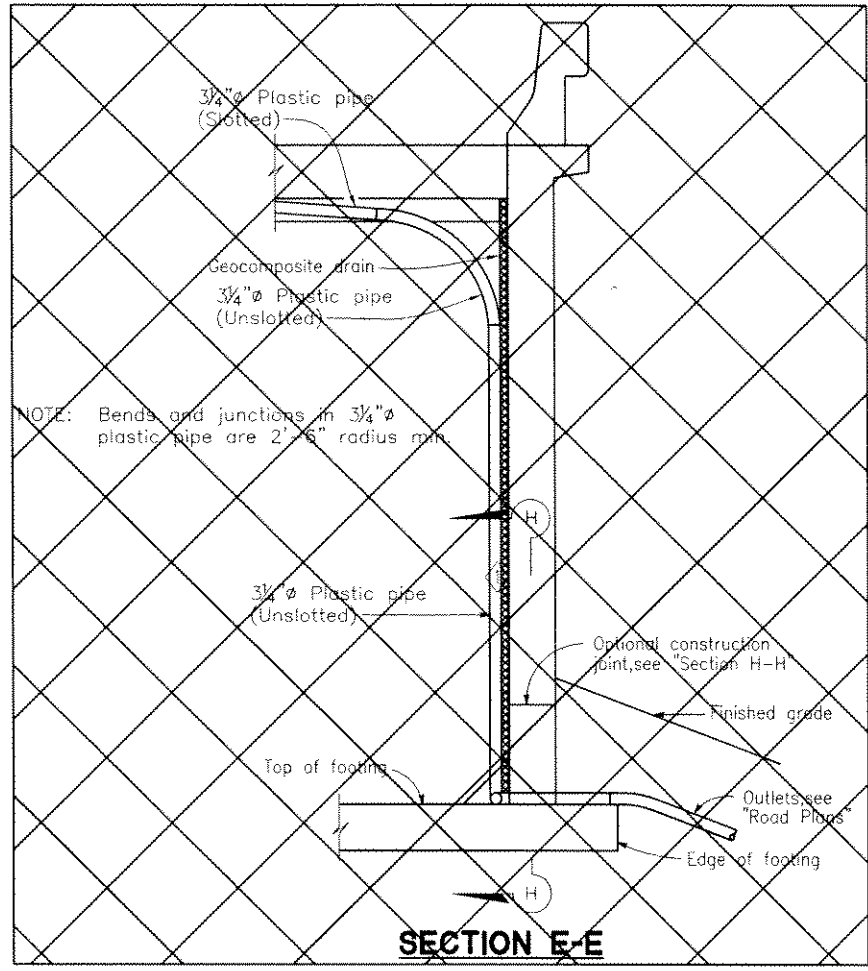
**CANTILEVER WINGWALL SECTION F-F**



**RETAINING WALL WINGWALL SECTION G-G**

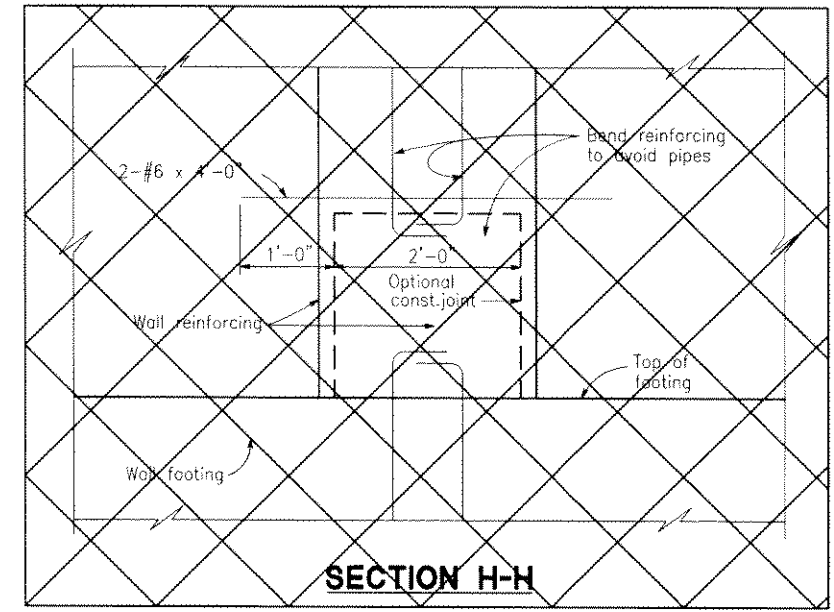


**DETAIL B**

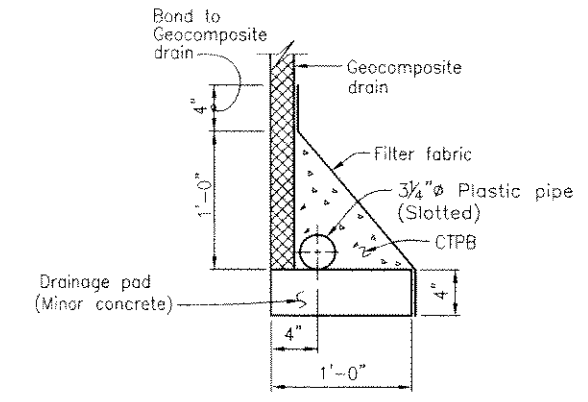


**SECTION E-E**

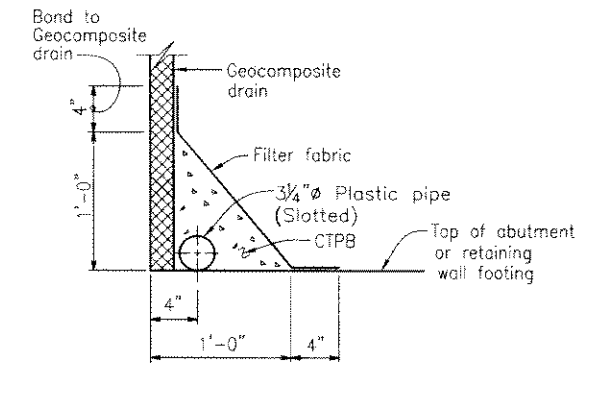
NOTE: Bends and junctions in 3/4" Ø plastic pipe are 2'-6" radius min.



**SECTION H-H**



**WITHOUT FOOTING**



**WITH FOOTING**

**DRAINAGE DETAILS**

NO SCALE

SPECIAL DETAILS

S-8

STANDARD DRAWING			
RELEASE DATE	DESIGN	BY	CHECKED
4/23/98	M. TRAFFALIS	M. TRAFFALIS	E. THORKILDSEN
FILE NO.	DETAILS	BY	CHECKED
xs3-110e	R. YEE	R. YEE	E. THORKILDSEN
	SUBMITTED	BY	DRAWING DATE
	M. HA	M. HA	4/98
		OFFICE CHIEF	

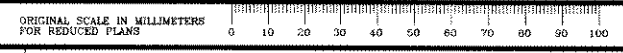
Deleted Detail Revised Detail

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF ENGINEERING SERVICES

BRIDGE NO.	25C0038
POST MILE	

GREEN VALLEY ROAD AT TENNESSEE CREEK  
BRIDGE REPLACEMENT PROJECT  
STRUCTURE APPROACH DRAINAGE DETAILS

DS OSD 2147A (REV. 2/25/97)



CU EA

DISREGARD PRINTS BEARING EARLIER REVISION DATES  
USERNAME =>USER

REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF
10/27/99	47	61

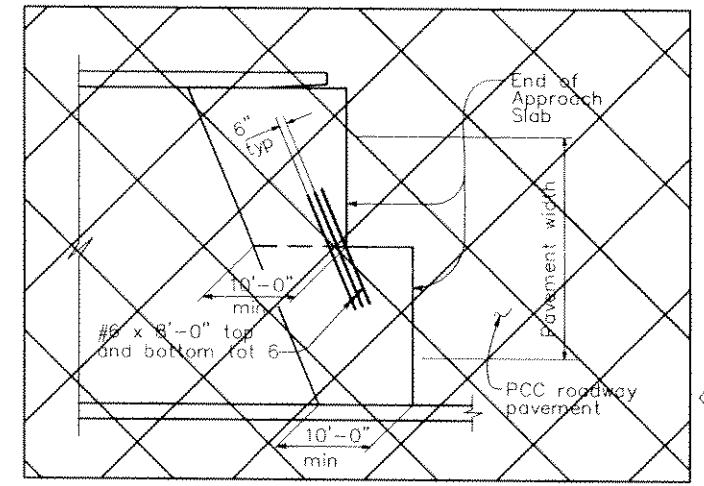
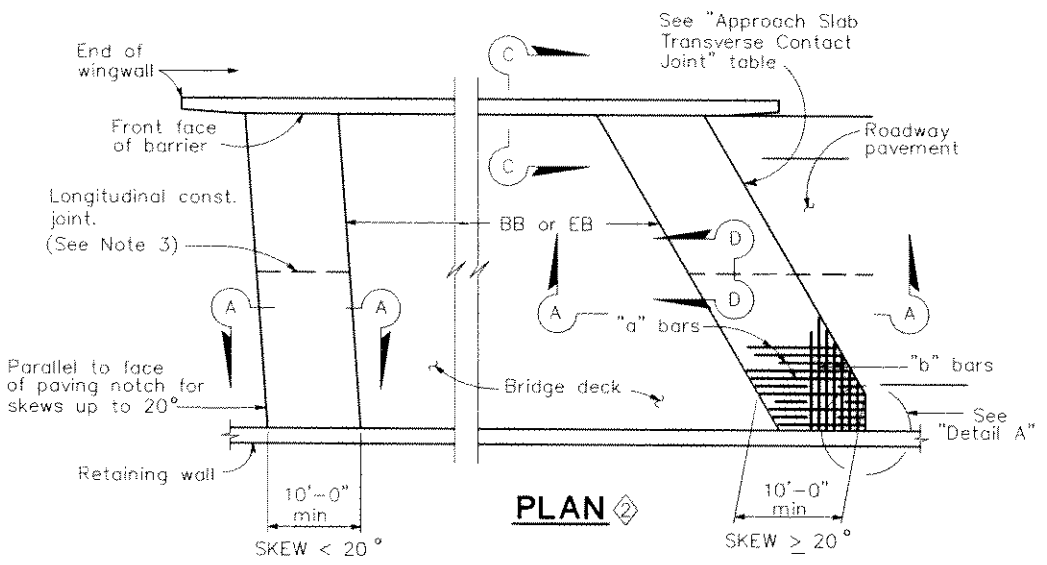
10.0299.2C.47

DATE PLOTTED => \$DATE TIME PLOTTED => \$TIME

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

REGISTERED ENGINEER - CIVIL  
 11/2/10  
 PLANS APPROVAL DATE  
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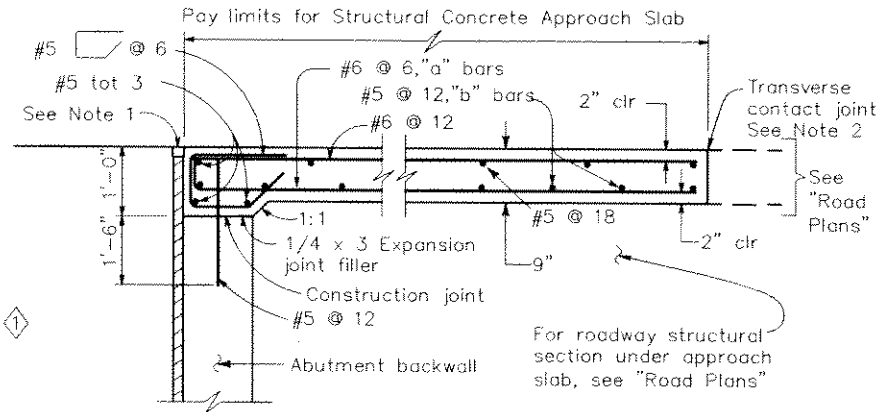
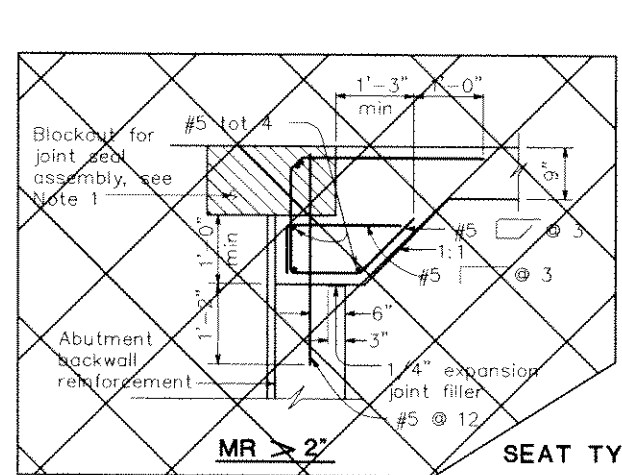
PROFESSIONAL ENGINEER  
 SARVEJIT NAGI  
 No. C 62734  
 Exp. 06/30/12  
 CIVIL  
 STATE OF CALIFORNIA



DETAIL A

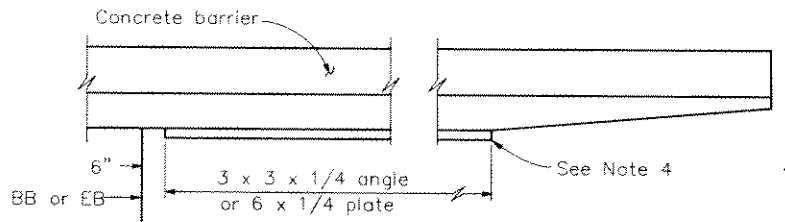
STRUCTURE APPROACH - END STAGGER DETAIL

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 24'-0" to 36'-0" apart
> 45°	Parallel to face of P N use (Detail A)	Stagger at each lane line

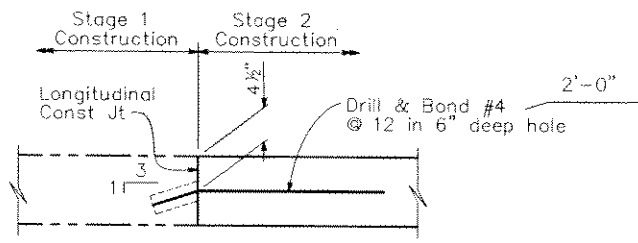


SEAT TYPE ABUTMENT SECTION A-A

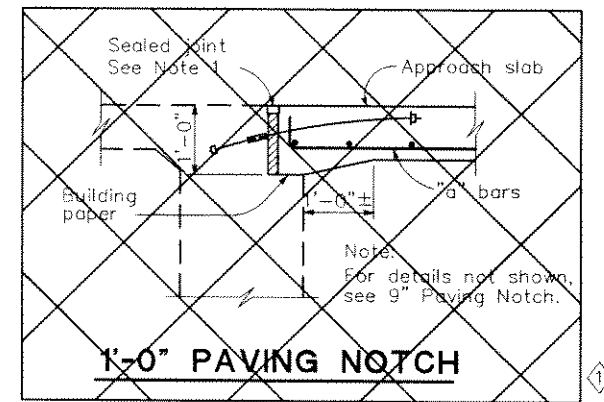
Note: Seat Type Abutment shown for Diaphragm Type Abutment, see "Abutment Tie Details".



EDGE ANGLE DETAIL



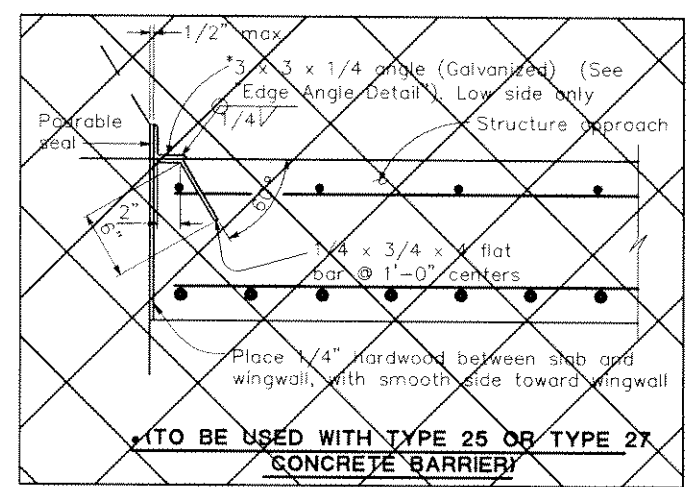
SECTION D-D



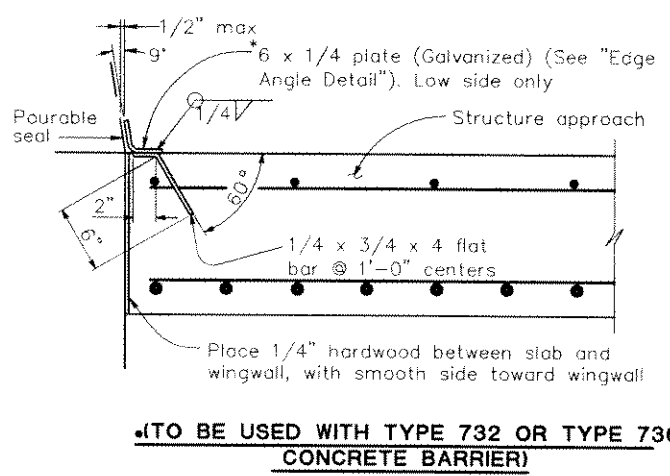
1'-0" PAVING NOTCH

NOTES:

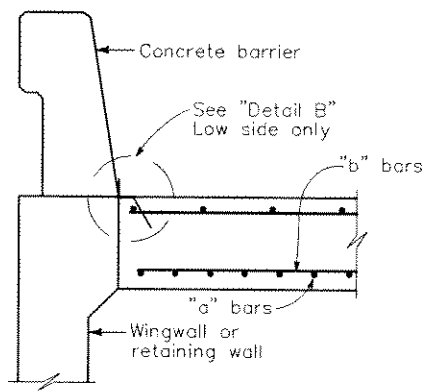
- For details not noted or shown, see Structure Plans. Adjust bar reinforcement to clear a sawcut for sealed joint, when required.
- For transverse contact joint with new PCC paving, refer to Standard Plan P10.
- Longitudinal construction joints, when permitted by the Engineer, shall be located on lane 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 roadway.
- For drainage details, see sheet S-8.



DETAIL B



TO BE USED WITH TYPE 732 OR TYPE 736 CONCRETE BARRIER



SECTION C-C

STANDARD DRAWING			
RELEASE DATE	DESIGN	BY	CHECKED
3/14/05	M. TRAFFALIS	M. TRAFFALIS	E. THORKILDSEN
FILE NO.	DETAILS	BY	CHECKED
xs3-150e	R. YEE	R. YEE	E. THORKILDSEN
	SUBMITTED	BY	DRAWING DATE
	M. HA	M. HA	6/08

- Deleted Detail
- Revised Detail
- Detail Added
- Revised Note

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

BRIDGE NO.  
 25C0038  
 POST MILE

GREEN VALLEY ROAD AT TENNESSEE CREEK  
 BRIDGE REPLACEMENT PROJECT  
 STRUCTURE APPROACH TYPE EQ(10)

DS OSD 2147A (REV. 2/25/97)



CU  
 EA

DISREGARD PRINTS BEARING EARLIER REVISION DATES  
 USERNAME => USER

REVISION DATA (PRELIMINARY STAGES ONLY)									
SHEET 48 OF 61									

10.0299.2C.48

DATE PLOTTED => \$TIME  
 \$DATE

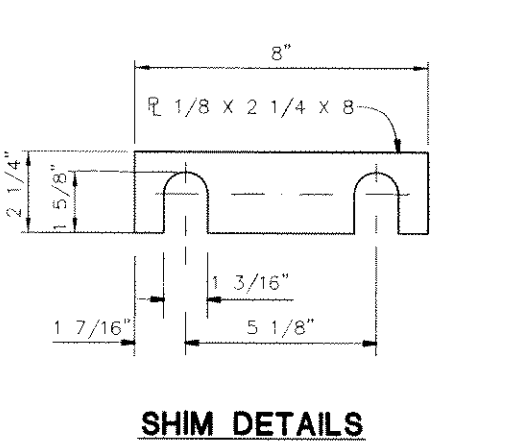
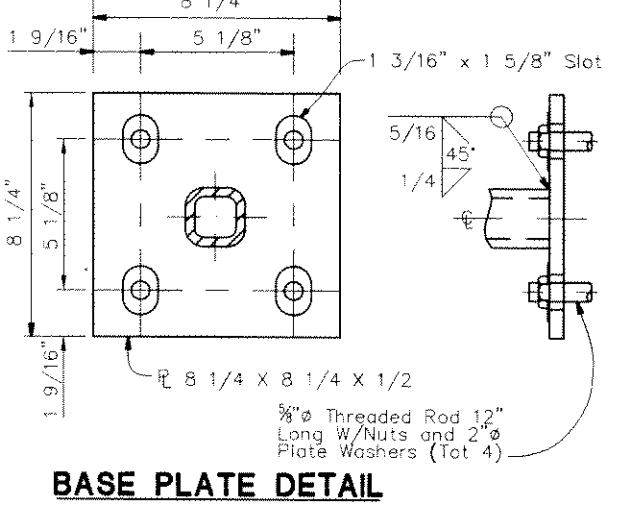
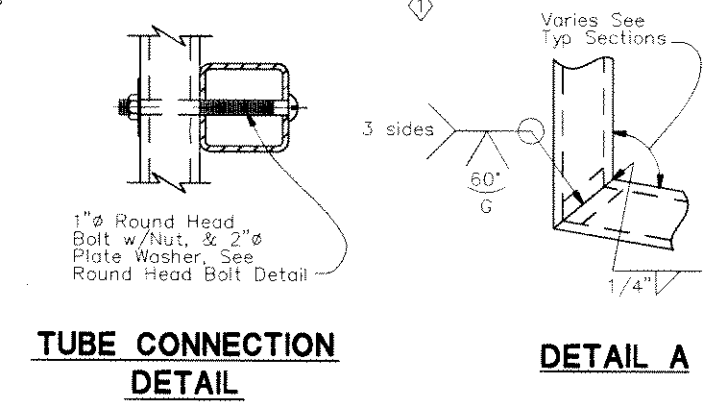
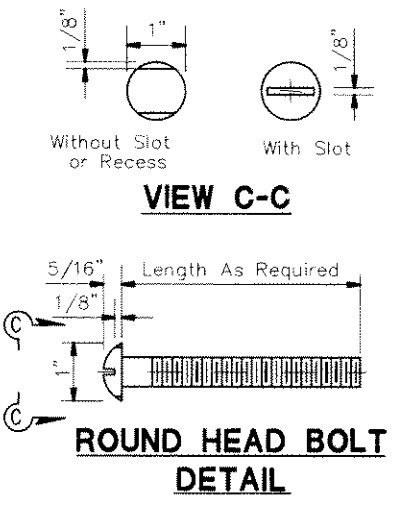
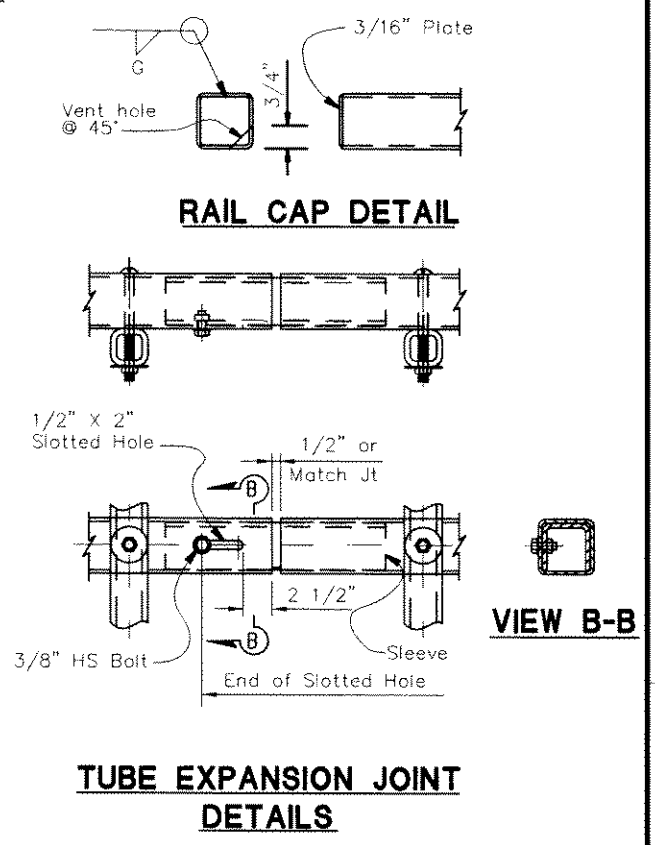
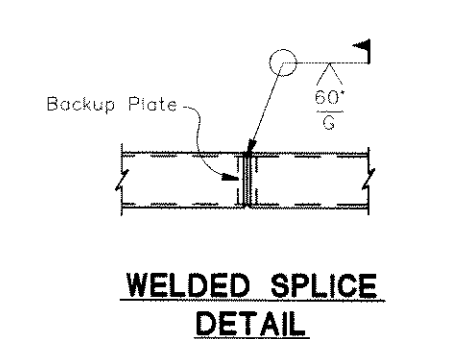
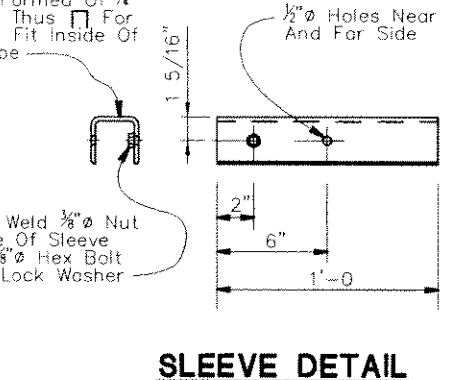
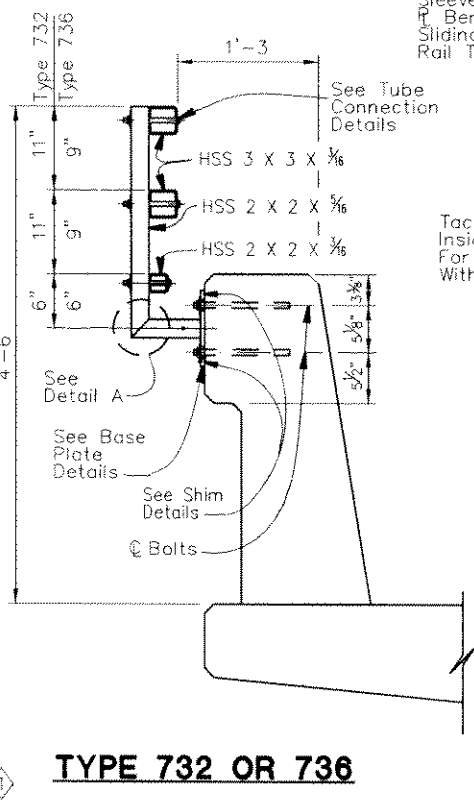
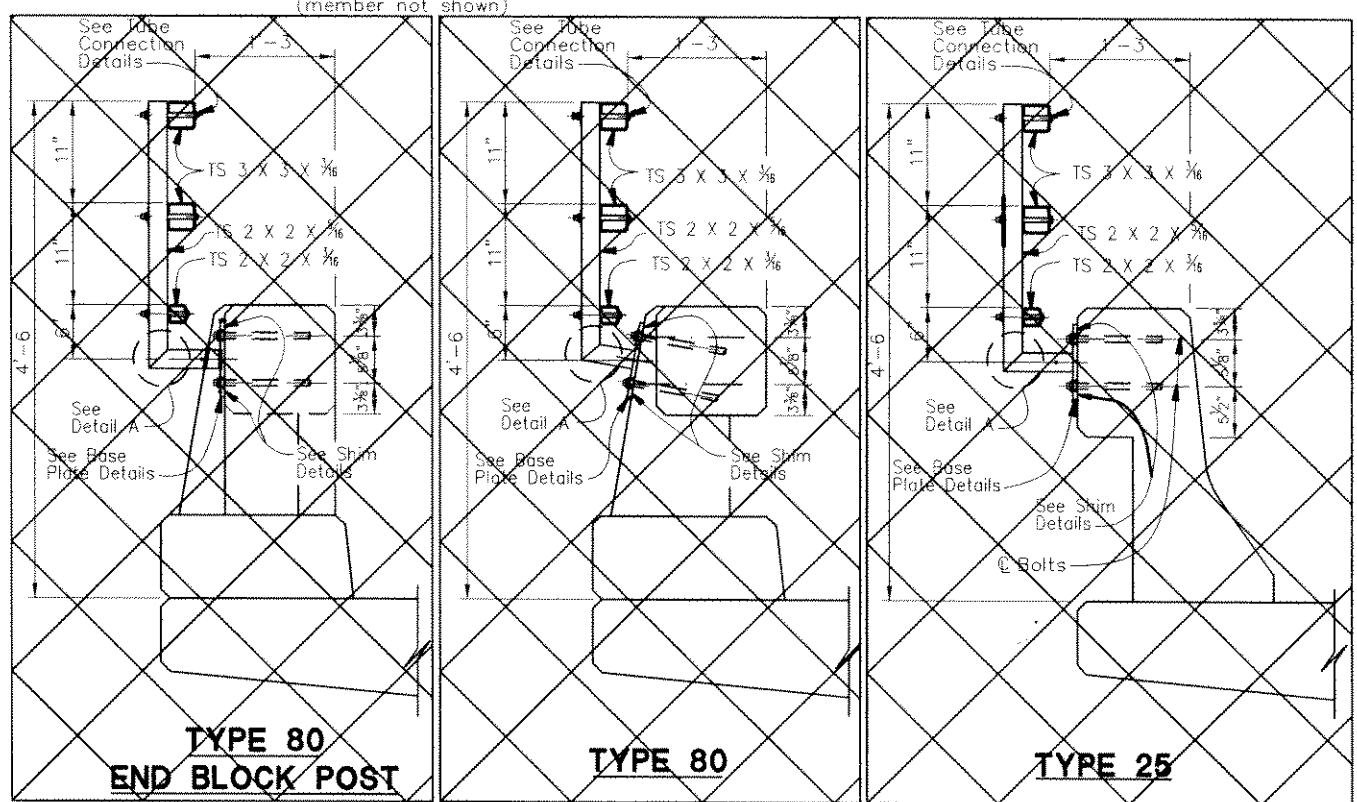
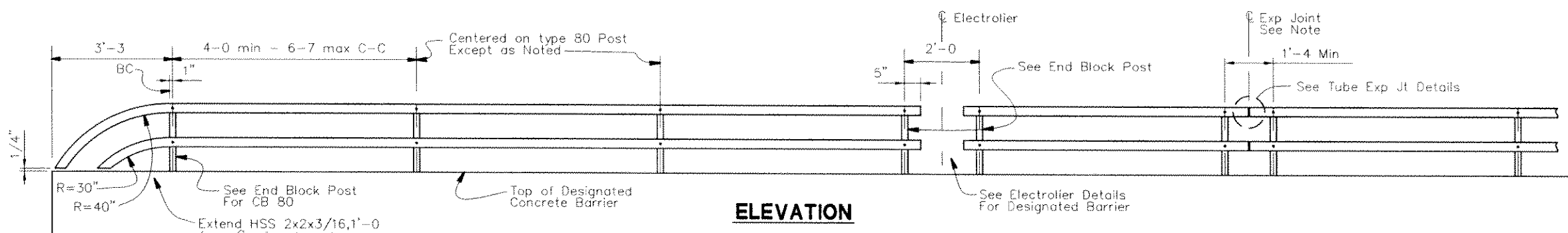


DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST NO.	SHEET NO.	TOTAL SHEETS
03	ED					

REGISTERED ENGINEER - CIVIL	
11/2/10	
PLANS APPROVAL DATE	

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



- 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.

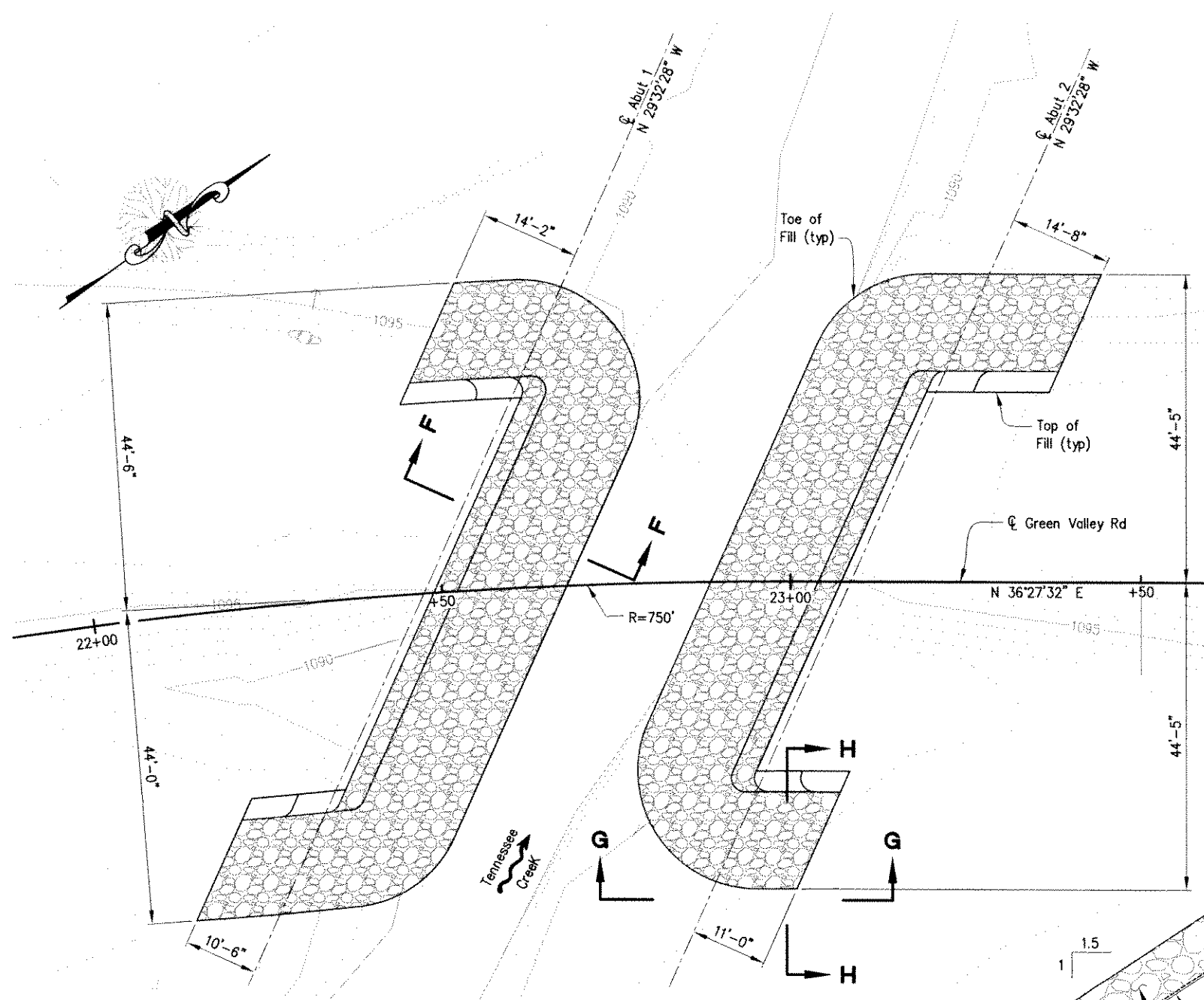
<b>STANDARD DRAWING</b>				Deleted Detail	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 25C0038	GREEN VALLEY ROAD AT TENNESSEE CREEK BRIDGE REPLACEMENT PROJECT TUBULAR BICYCLE RAILING	S-10
RELEASE DATE 4/15/08	DESIGN BY M. TRAFFALIS	CHECKED E. THORKILDSEN	RELEASED BY <i>[Signature]</i>				POST MILE		
FILE NO. xs16-500e	DETAILS BY R. YEE	CHECKED E. THORKILDSEN	OFFICE CHIEF						
DISREGARD PRINTS BEARING EARLIER REVISION DATES				ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100		CU EA	DISREGARD PRINTS BEARING EARLIER REVISION DATES USERNAME => \$USER	REVISION DATES (PUBLISHED ONLY)	SHEET 49 OF 61 \$REQUEST

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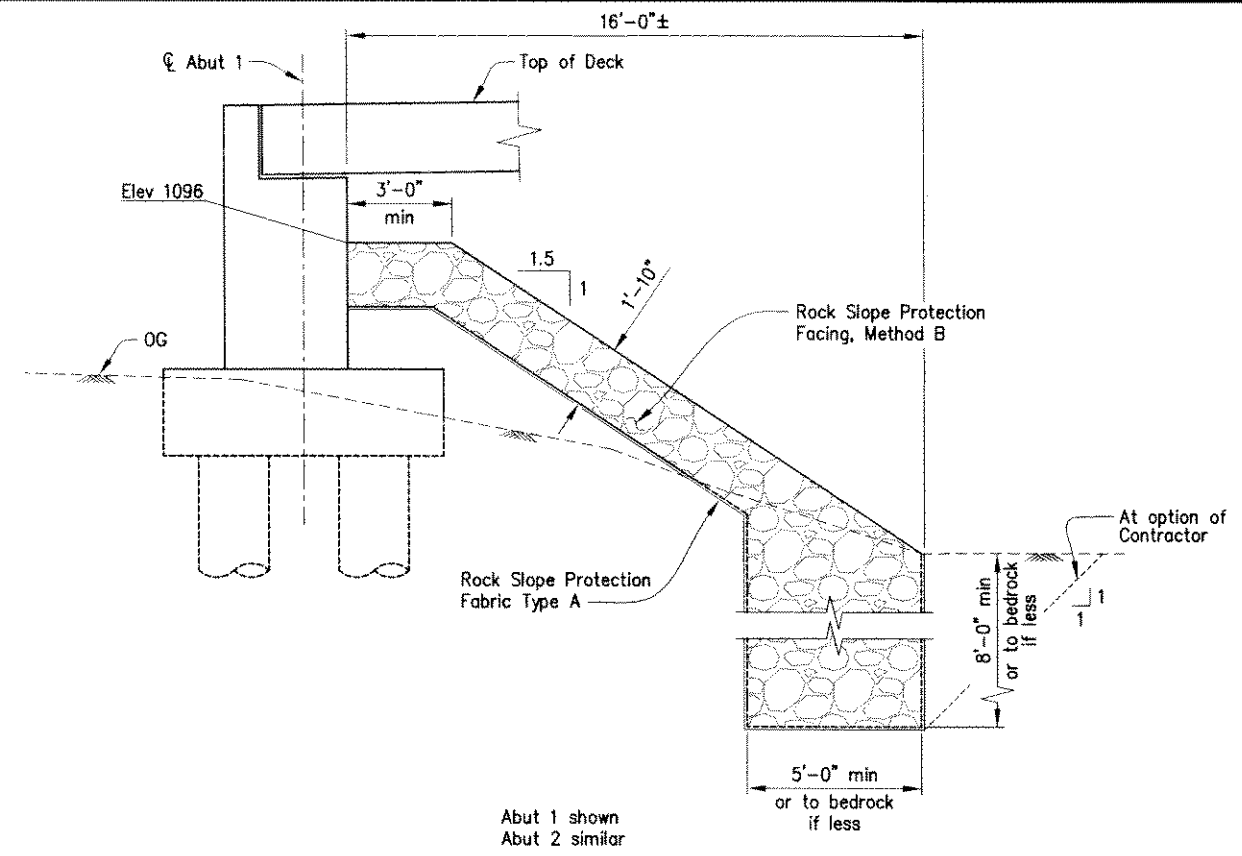
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10.0299.2C.49

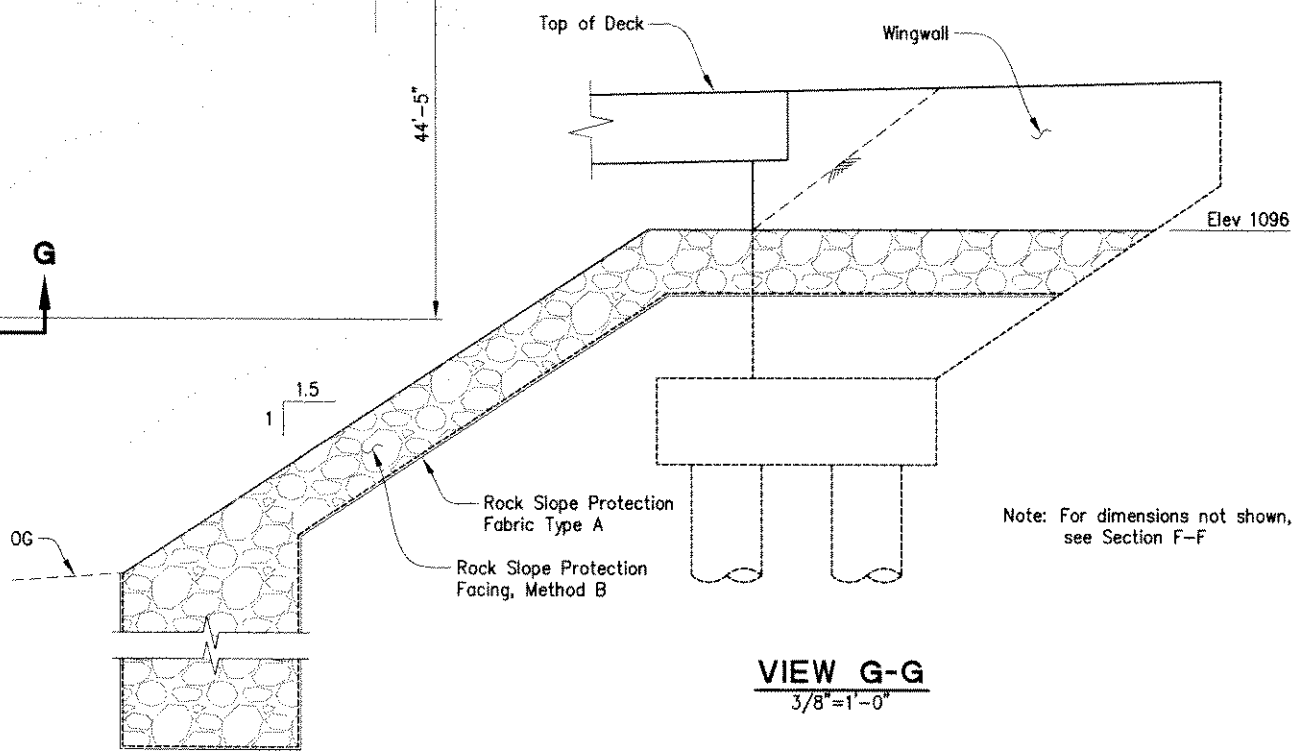
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 FOR REDUCED PLANS



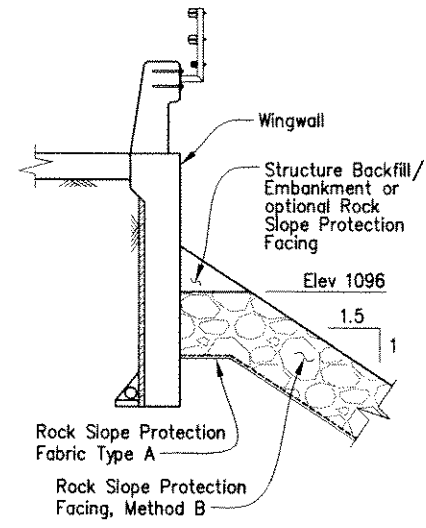
**PLAN**  
1"=10'



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



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



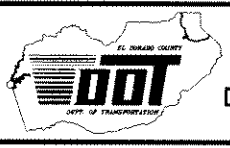
**SECTION H-H**  
3/8"=1'-0"

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
  
 REGISTERED CIVIL ENGINEER  
 DATE: 11/27/10

DESIGNED: S.N. A.C.  
 CHECKED: J.G. DATE: 11/06/09  
 ROAD NUMBER: 25C0038



**EL DORADO COUNTY**  
**DEPARTMENT OF TRANSPORTATION**

**GREEN VALLEY ROAD AT TENNESSEE CREEK**  
**BRIDGE REPLACEMENT PROJECT**  
**ROCK SLOPE PROTECTION**

SHEET  
**S-11**  
 50 OF 61  
 W.D. No. 77109

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	EL DORADO	C.R.		51	61

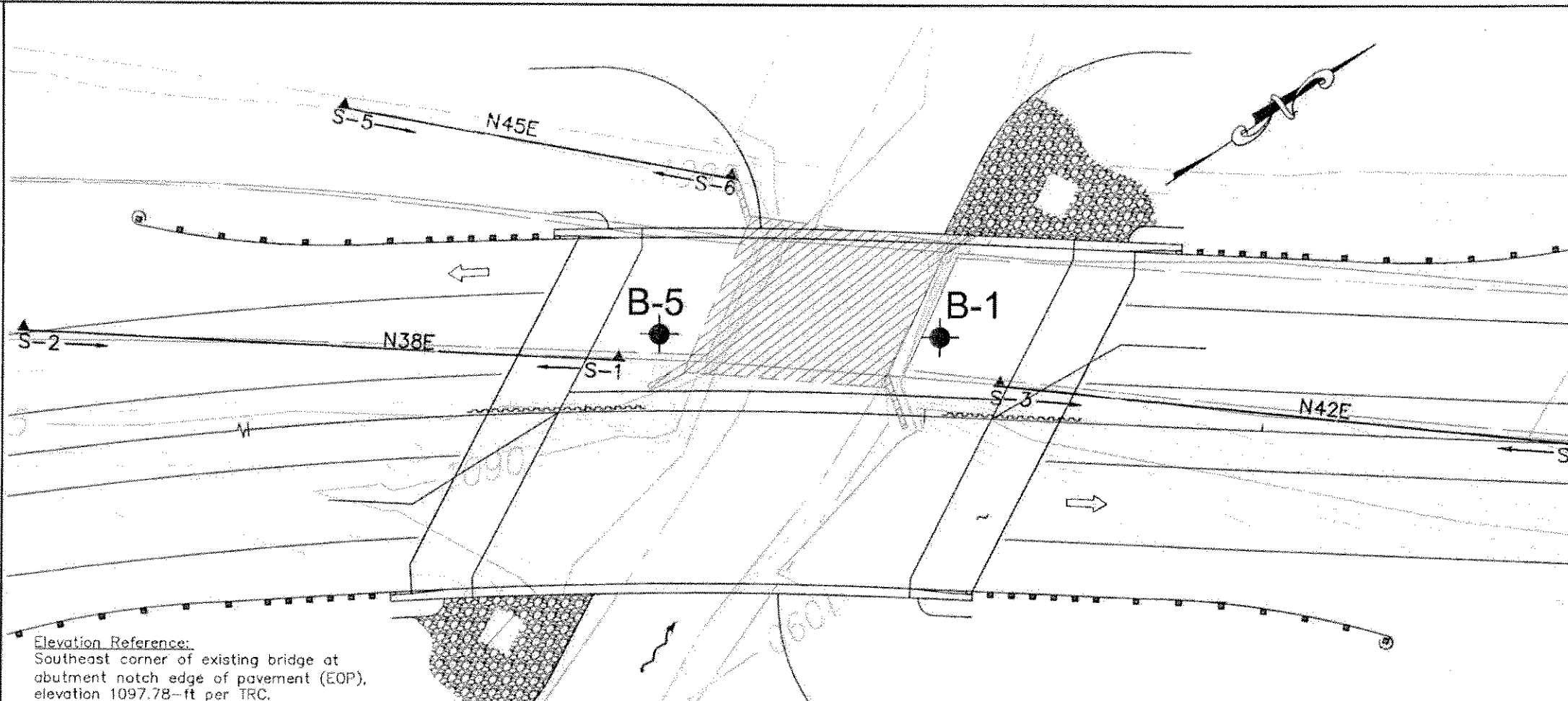
REGISTERED GEOLOGIST  
 No. 2322  
 Exp. 03-31-11  
 CERTIFIED ENGINEERING GEOLOGIST  
 STATE OF CALIFORNIA

May 25, 2010  
 PLANS APPROVAL DATE

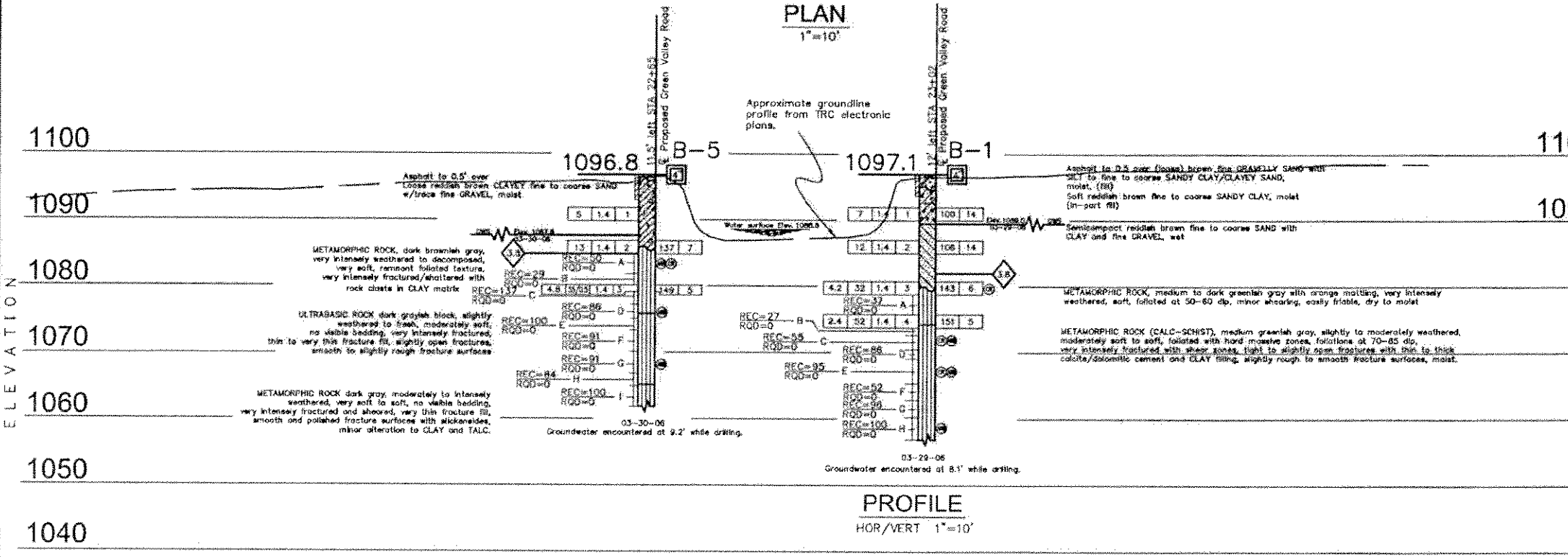
TABER CONSULTANTS  
 3911 West Capitol Avenue  
 West Sacramento, CA 95691-2116

JOB No. 1P2/305/13 LOCATION: 38120-FB-328N;172W

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



- NOTES:
- Field classification of soils was in accordance with ASTM D 2498-00 "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 R.).
  - Standard Penetration tests were performed in accordance with ASTM D 1586-99 using a hammer operated with an automated drop system. Drill rods were 1 5/8-inch diameter "A"-rods; sampler was driven with brass liners.
  - The length of each sampled interval is shown graphically on the boring log. Whole number blow counts ("N") represent the "standard penetration resistance" interval in accordance with ASTM D1586-99. Where less than 1 foot of penetration is achieved, the blow count shown is for that fraction 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 all rock cores. 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 fluid 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 at any particular time.
  - Refraction seismic profiles were made using a sledge-hammer actuated, single channel, signal enhancement timer.
  - Electronic media for plan view provided by TRC. Plan view shows "Alternative-A" alignment.



**LEGEND OF BORING OPERATIONS**

PLAN OF ART BORING

2.5 INCH CORE PENETROMETER (ASTM D 1586)

RECYCLED STEEL BORING (NPT)

ALUMINUM TEST BIT

DIAMOND CORE BITTING

ELECTRONIC CORE PENETROMETER

2.5 INCH CORE PENETROMETER

RECYCLED STEEL BORING (NPT)

ALUMINUM TEST BIT

DIAMOND CORE BITTING

ELECTRONIC CORE PENETROMETER

**LEGEND OF EARTH MATERIALS**

GRAVEL

SAND

CLAY

SANDY CLAY or CLAYEY SAND

SANDY SILT or SILTY SAND

SILT

SILT CLAY

CLAYEY SILT

CLAYEY SAND

CLAYEY SILT

CLAYEY SAND

SILT CLAY

CLAYEY SILT

CLAYEY SAND

SILT CLAY


**CONSISTENCY CLASSIFICATION OF SOILS**


According to the Standard Penetration Test

Standard Penetration Test "N" Value	Consistency	Relative Density
0-5	Very loose	Very soft
6-10	Loose	Soft
11-20	Medium dense	Stiff
21-30	Dense	Very stiff
31-50	Very dense	Hard
>50		Very hard

NOTE: Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.


DESIGN OVERSIGHT	DRAWN BY M. W. McIlroy	M. W. McIlroy FIELD INVESTIGATOR	PREPARED FOR EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION	BRIDGE NO. 25C0038	GREEN VALLEY ROAD AT TENNESSEE CREEK BRIDGE
SIGN OFF DATE	CHECKED BY M. W. McIlroy	DATE March 2006	PROJECT ENGINEER	POST MILE	<b>LOG OF TEST BORINGS</b>

SECTION IDENTIFICATION LETTER  

 SHEET NUMBER WHERE SECTION IS TAKEN OR APPEARS



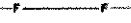
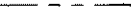




DETAIL IDENTIFICATION NUMBER  

 SHEET NUMBER WHERE DETAIL IS TAKEN OR APPEARS


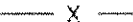



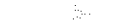



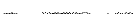
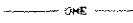
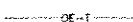


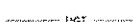


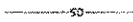
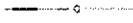

 HORIZONTAL BEARING AND DISTANCE OF NEW PIPE

 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

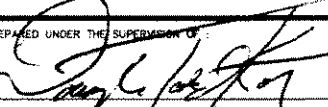
-  EXISTING FACILITIES
-  EXISTING FENCE
-  EXISTING PIPE OR STRUCTURE TO BE ABANDONED OR REMOVED
-  EXISTING VEGETATION
-  EXISTING MANHOLE & PIPELINE
-  EXISTING POWER POLE
-  PROPERTY LINE
-  EXISTING DIRT OR GRAVEL ROAD
-  EXISTING PAVED ROAD
-  EXISTING DRAINAGE FLOWLINE
-  EXISTING OVERHEAD ELECTRICAL 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

**6" & 20" E.I.D. WATERLINE REPLACEMENT NOTES:**

1. SEE APPENDIX "C" OF THE CONTRACT DOCUMENTS, FOR THE EL DORADO IRRIGATION DISTRICT TECHNICAL SPECIFICATIONS.

REVISION NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
  
 REGISTERED CIVIL ENGINEER  
 DATE: 12-21-10

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

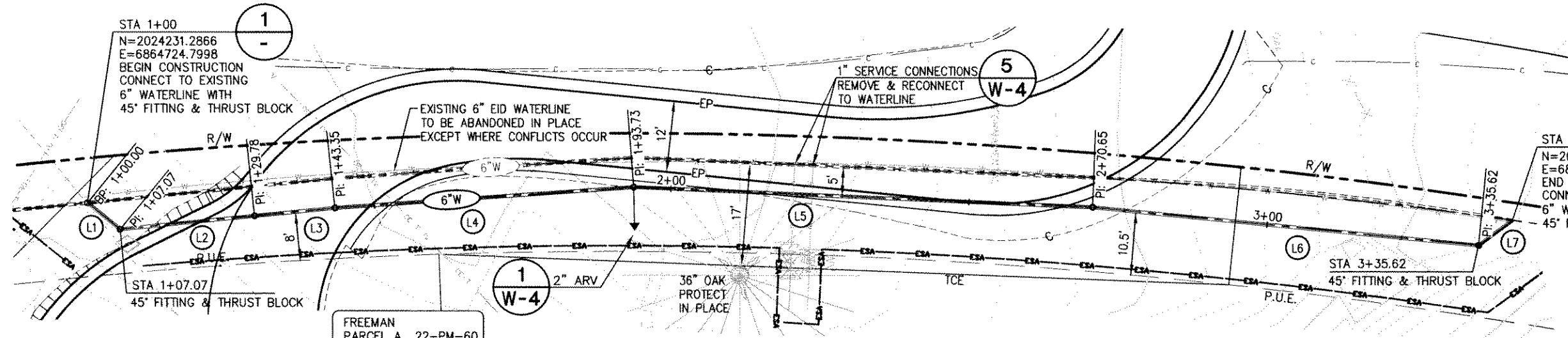


**EL DORADO COUNTY**  
 DEPARTMENT OF TRANSPORTATION

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

SHEET  
**W-1**  
 52 OF 61  
 W.O. No. 77109

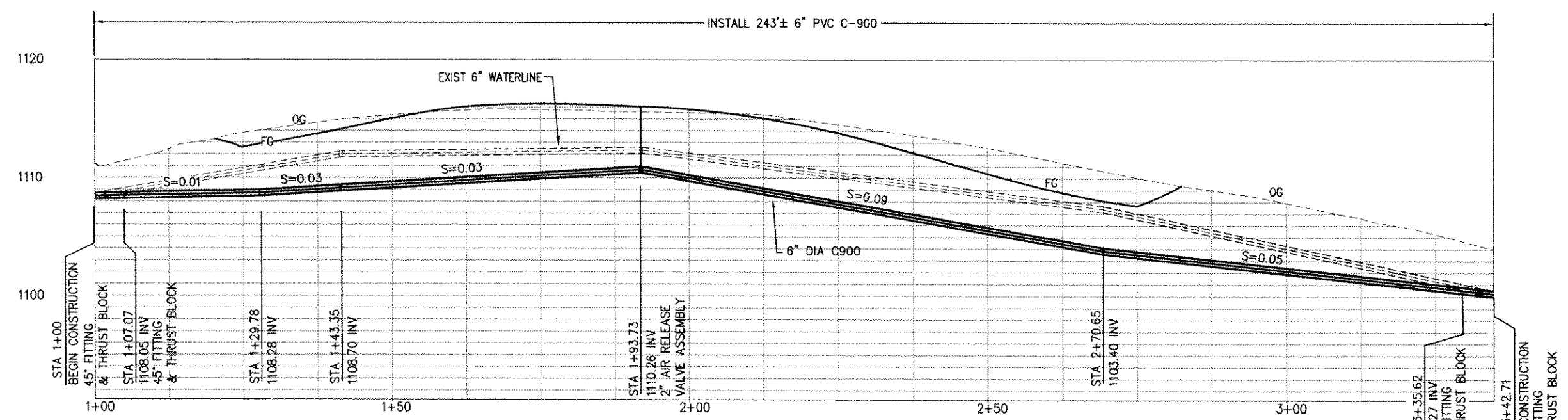
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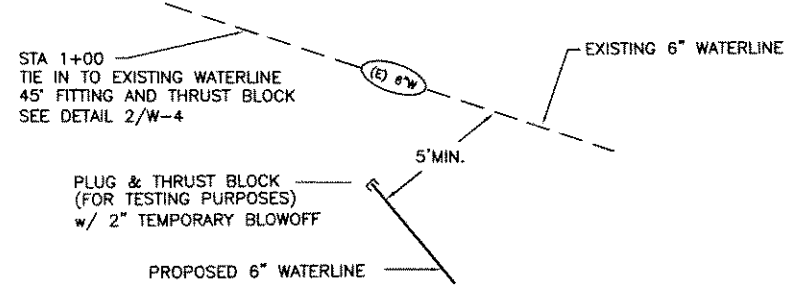
**PLAN - WATERLINE RELOCATION (FREEMAN D/W)**  
SCALE: 1:10H

**WATERLINE TABULATION**

No.	DIRECTION	DISTANCE
(L1)	N39°15'53"E	7.07'
(L2)	N05°44'07"W	22.71'
(L3)	N05°44'07"W	13.57'
(L4)	N04°04'51"W	50.37'
(L5)	N02°24'26"E	76.92'
(L6)	N05°39'07"E	64.97'
(L7)	N36°48'05"W	7.09'

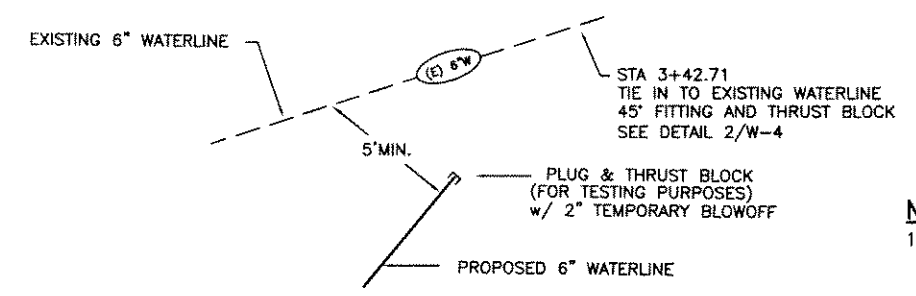


**PROFILE - WATERLINE RELOCATION (FREEMAN D/W)**  
SCALE: 1:10H,5V



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

- | EXISTING  | PROPOSED  |
|---|---|
| ---▽--- 2" AIR RELEASE VALVE, COMBINATION AIR VACUUM & AIR RELEASE VALVE W/SIZE | ---▽--- 2" AIR RELEASE VALVE, COMBINATION AIR VACUUM & AIR RELEASE VALVE W/SIZE |
| ---+--- 45° BENDS   | ---+--- BENDS   |
| ---+--- BUTTERFLY VALVE   | ---+--- BUTTERFLY VALVE   |
| ---+--- CAP   | ---+--- CAP   |
| ---(6)--- DOMESTIC PIPELINE WITH SIZE   | ---(6)--- DOMESTIC PIPELINE WITH SIZE   |
| ---◇--- GATE VALVE  | ---◇--- GATE VALVE  |



**2 TIE-IN DETAIL 3+42.71**  
N.T.S.

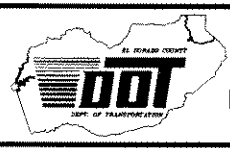
- NOTES:**
- MINIMUM 4' COVER OVER NEW WATERLINE TO FINISH GRADE.
  - USE HIGH DEFLECTION COUPLINGS FROM WATERLINE STATIONS 1+60 TO 2+20

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
*[Signature]*  
REGISTERED CIVIL ENGINEER  
DATE: 11/2/10

DESIGNED: RR  
DRAWN: RR  
CHECKED: DH  
DATE: 05/03/10  
ROAD NUMBER:



**EL DORADO COUNTY**  
DEPARTMENT OF TRANSPORTATION

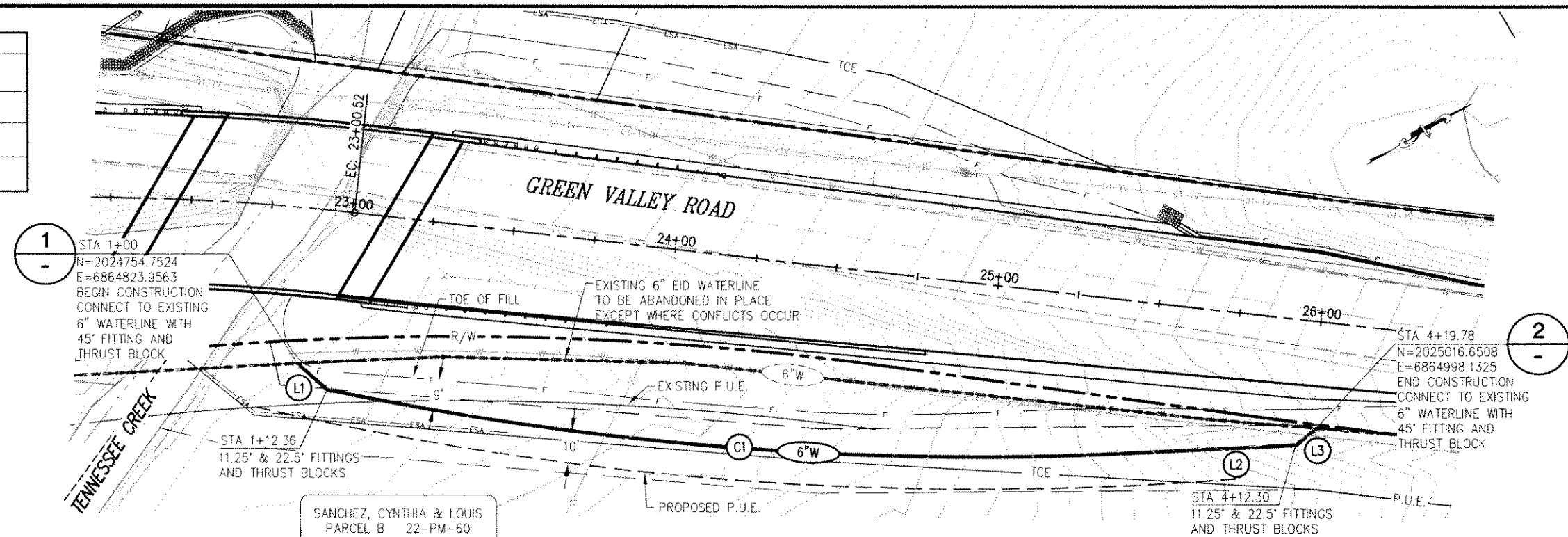
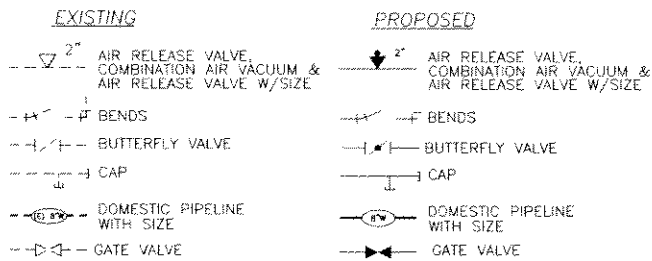
**GREEN VALLEY ROAD AT TENNESSEE CREEK**  
BRIDGE REPLACEMENT PROJECT  
**6" WATERLINE - PLAN & PROFILE**

SHEET  
**W-2**  
53 OF 61  
W.D. No. 77109



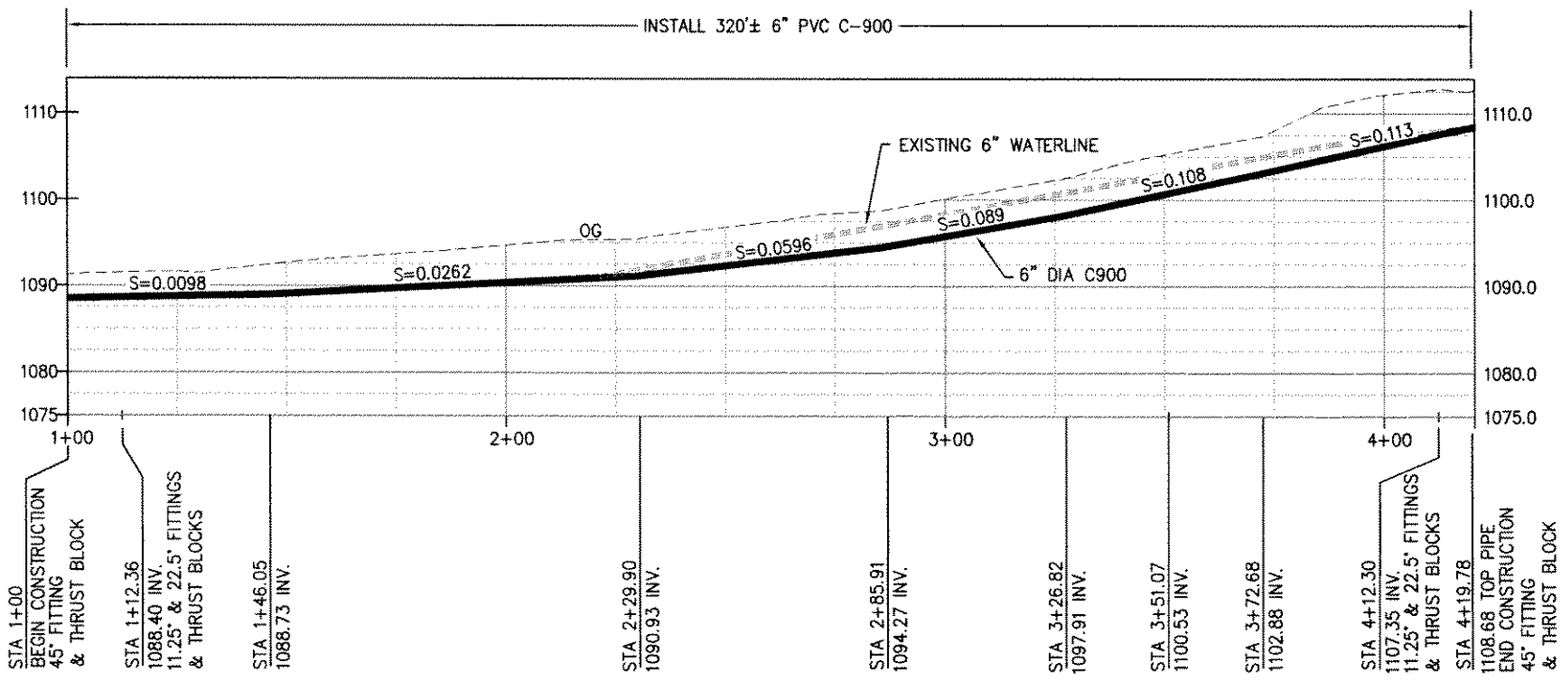
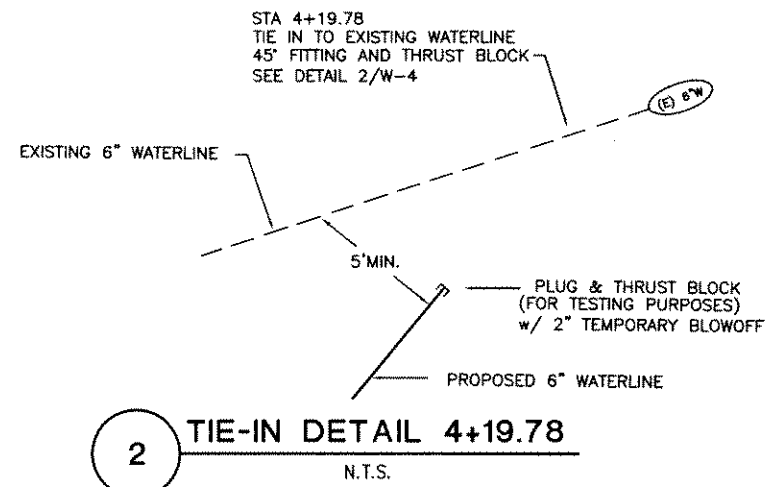
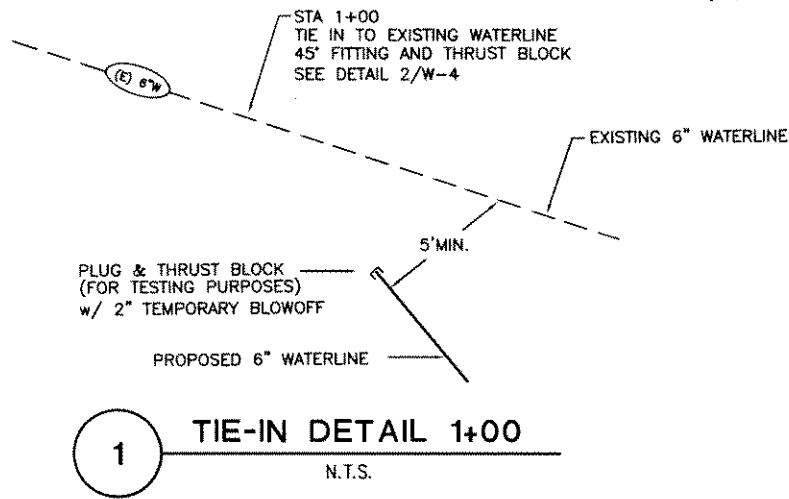
### WATERLINE TABULATION

No.	DIRECTION	DISTANCE	RADIUS	LENGTH	DELTA
L1	S71°49'20"W	12.36'			
C1			976.68'	238.70'	14°00'11"
L2	S27°14'10"W	61.25'			
L3	S04°44'10"W	8.18'			



### PLAN - WATERLINE RELOCATION (SANCHEZ PROPERTY)

SCALE: 1:20H



### PROFILE - WATERLINE RELOCATION (SANCHEZ PROPERTY)

SCALE: 1:20H,2V

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

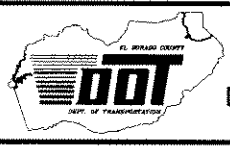
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REVISION	NUMBER	DATE	DESCRIPTION	BY



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

DESIGNED: RR  
DRAWN: RR  
CHECKED: DH  
DATE: 05/04/10  
ROAD NUMBER:

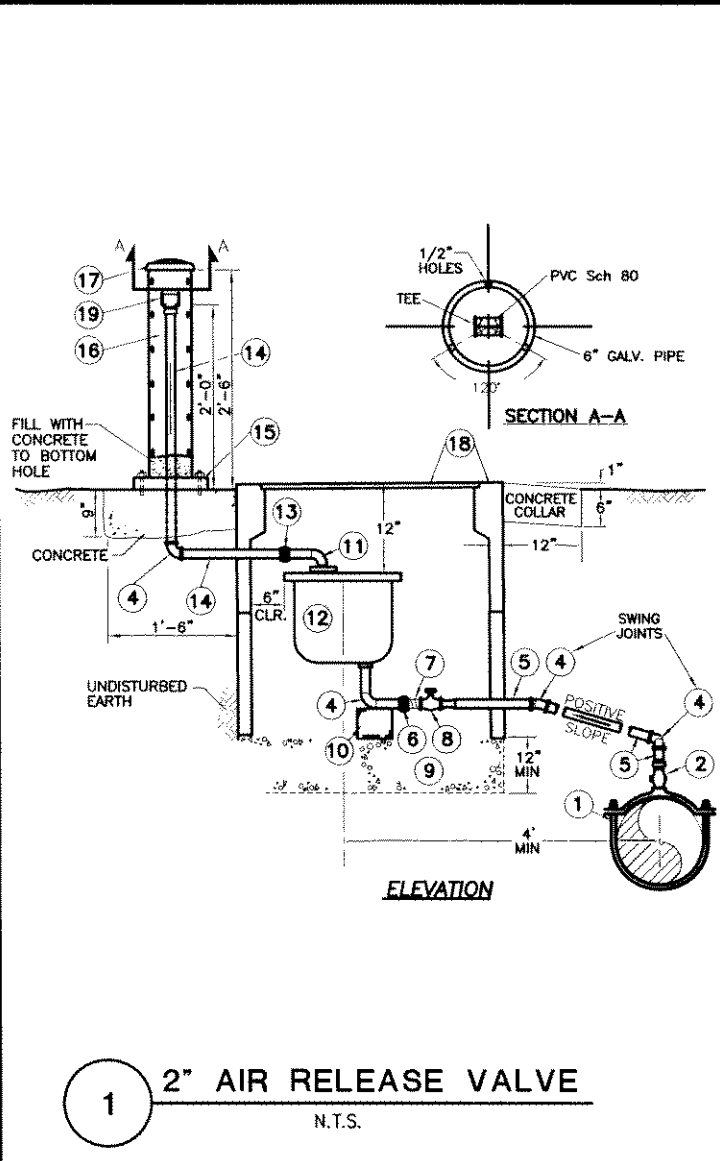


EL DORADO COUNTY  
DEPARTMENT OF TRANSPORTATION

GREEN VALLEY ROAD AT TENNESSEE CREEK  
BRIDGE REPLACEMENT PROJECT  
6" WATERLINE - PLAN & PROFILE

SHEET  
W-3  
54 OF 61  
W.O. No. 77109

ORIGINAL SCALE IS IN INCHES  
 FOR REDUCED PLANS  
 Drawing number: Civil 3D Projects\77109 Tennessee Creek\CAD\Files\Sheets\W-4.dwg Layout Job: W-4 Dec 14 2010 5:07pm D:\harrington

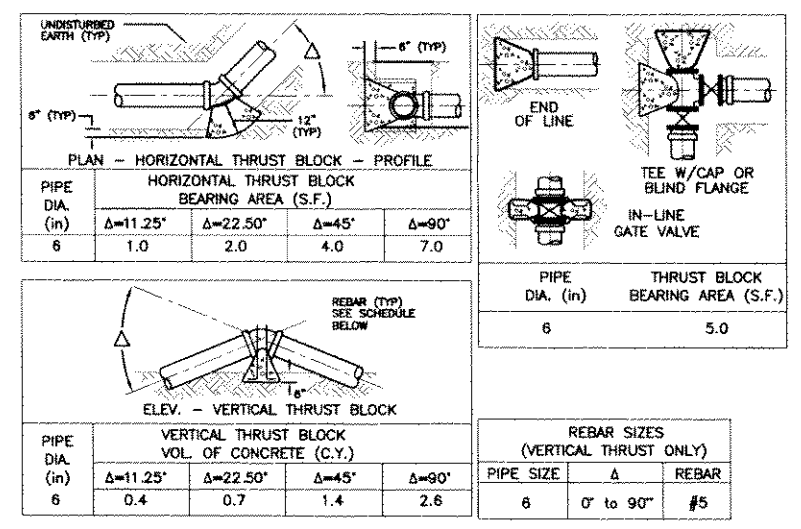


ITEM #	DESCRIPTION
1	BRASS SERVICE SADDLE
2	BRASS CORPORATION STOP AWWA I.P.T. x F.I.P.
4	FITTINGS SAME AS PIPE MATERIAL
5	COPPER PIPE AND WRAP W/ PVC TAPE
6	INSULATED UNION
7	BRASS NIPPLE
8	BRASS BALL VALVE F.I.P. x F.I.P.
9	3/4\" CLEAN DRAIN ROCK
10	SUPPORT BLOCK, BRICK
11	STREET ELL
12	COMBINATION AIR VALVE UNLESS OTHERWISE SPECIFIED ON PLANS
13	UNION
14	PVC Sch 80
15	6\" SCREWED FLANGE ANCHORED IN CONCRETE W/ 3 HOLLOW BOLTS
16	6\" GALV. PIPE W/ 3 VERT. ROWS OF 6 1/2\" HOLES SEE SECTION A-A THIS PAGE
17	6\" GALV. SCREW CAP
18	CONC. BOX & C.I. LD. SEE NOTE 8
19	TEE W/ 20-MESH SCREEN ATTACHED AT EACH END

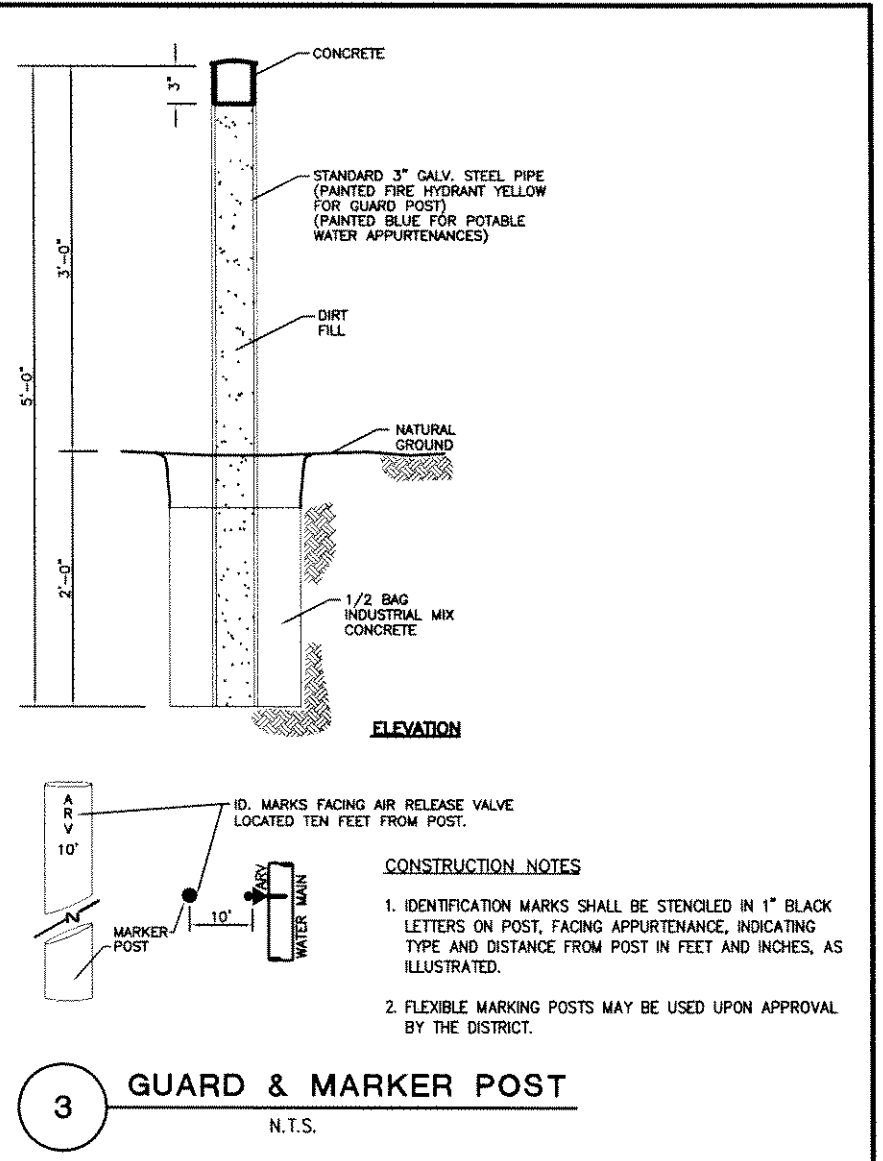
**CONSTRUCTION NOTES**

1. SIZE OF PIPING SHALL MATCH SIZE OF AIR VALVE.
2. ENGINEER TO SPECIFY TYPE & SIZE OF VALVE.
3. AIR VALVES LARGER THAN 2\" SHALL BE BY SPECIAL DESIGN.
4. AIR VALVE SHALL BE PLACED OUTSIDE OF TRAFFIC AREAS.
5. ALL PIPING ABOVE GROUND TO BE PAINTED.
6. CENTER VALVE IN LONGITUDINAL DIRECTION IN BOX.
7. PAINT AND MARK VENT SIMILAR TO MARKER POST DETAIL.
8. CHRISTY B36 FOR 1\" ARV, B40 FOR 2\" ARV.

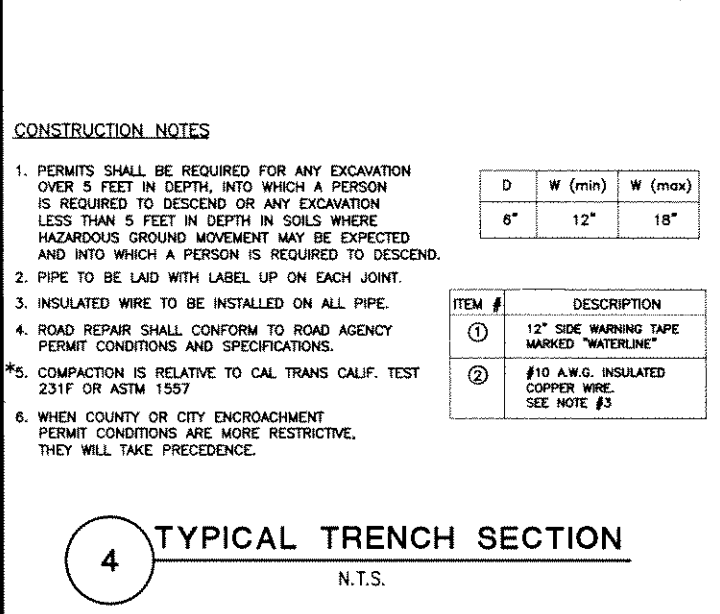
**2 THRUST BLOCK**  
N.T.S.



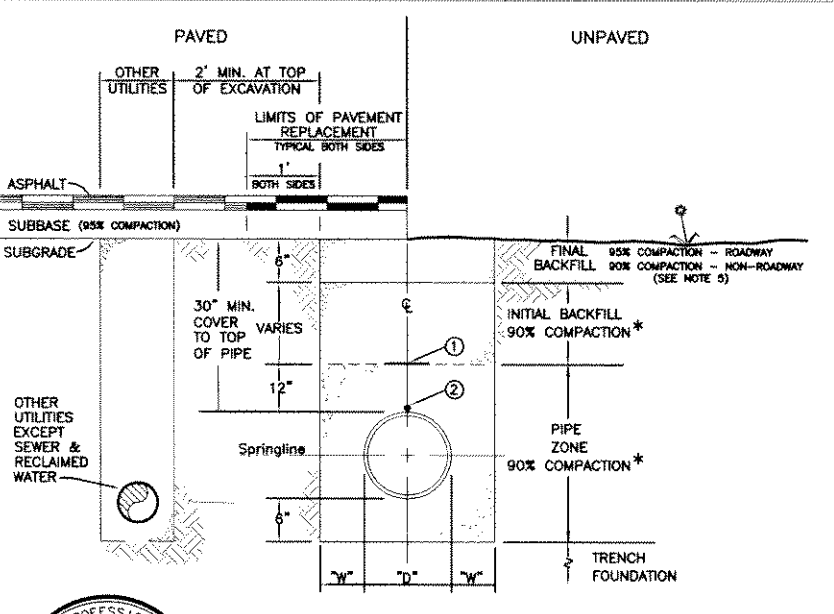
1. THRUST BLOCK DESIGN IS BASED ON TEST PRESSURE=200psi, SOIL BEARING PRESSURE=1500lb/sq. INSTALLATIONS USING HIGHER PRESSURE OR LOWER SOIL BEARING PRESSURE SHALL BE ADJUSTED ACCORDINGLY, AND SUBMITTED FOR APPROVAL BY E.I.D. ENGINEERING DEPARTMENT
2. THRUST BLOCKS SHALL BE CONSTRUCTED OF CLASS "B" CONCRETE.
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 TWO COATS OF KOPPERS 505, TMEC 46-450, AMERON OR EQUAL. 15 mils EACH COAT.
6. THRUST BLOCKS FOR REDUCERS SHALL BE DESIGNED BY THE ENGINEER.



**3 GUARD & MARKER POST**  
N.T.S.



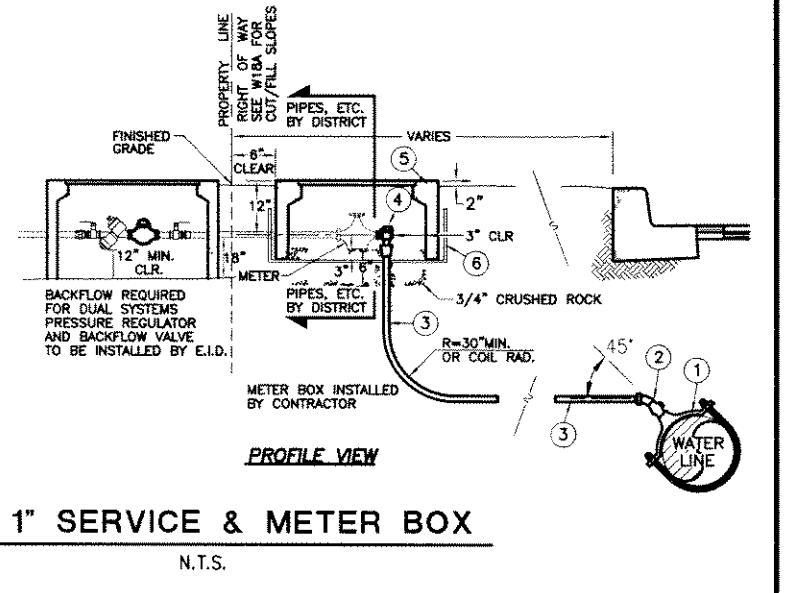
**4 TYPICAL TRENCH SECTION**  
N.T.S.



**CONSTRUCTION NOTES**

1. SERVICE SADDLE SHALL NOT BE INSTALLED WITHIN 18\" OF VALVE, JOINT OR FITTING.
2. SET TOP OF METER BOX FLUSH WITH SIDEWALK OR AS SHOWN.
3. ALL TAPS SHALL BE MADE WITH MACHINE GUIDE OR PILOT TAP.
4. THE WATER SERVICE SHALL EXTEND PERPENDICULAR TO THE CENTERLINE OF THE STREET FROM THE WATER MAIN TO THE METER STOP.
5. P.E. TUBING SHALL BE CONTINUOUS
6. ALL FITTINGS SHALL BE BRONZE.

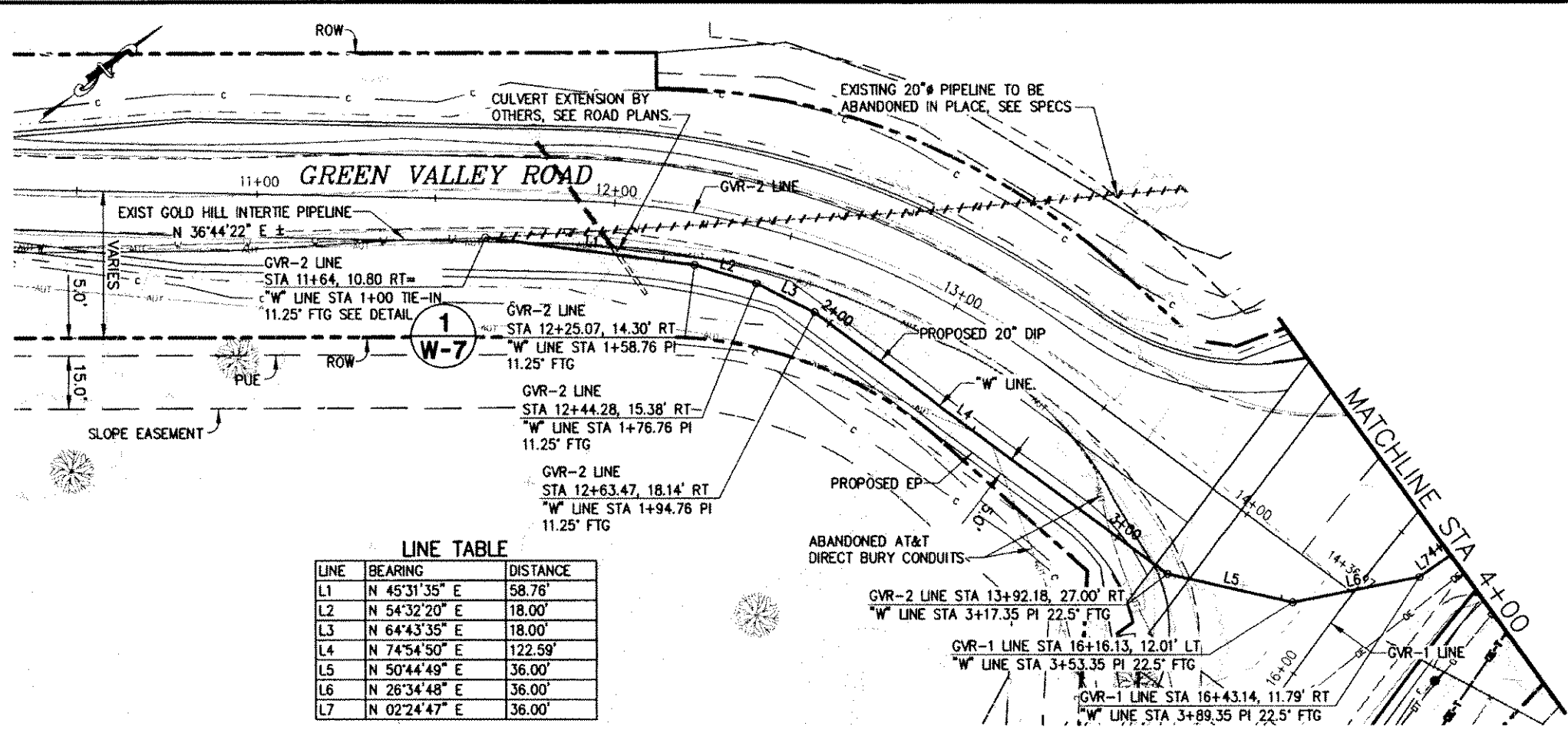
ITEM #	DESCRIPTION
1	DOUBLE STRAP BRONZE SERVICE SADDLE, 1\" AWWA I.P.T.
2	1\" CORPORATION STOP AWWA I.P.T. x F.I.P. W/ 1/8\" STREET ELBOW, COMPRESSION FITTING
3	1\" P.E. TUBING, CTS CONTINUOUS
4	1\" ANGLE METER STOP, METER CPLG NUT x STAB TYPE END
5	METER BOX 10"x17\" (MIN.) PLASTIC BOX & LID IN NON-TRAFFIC AREAS. CONCRETE BOX & STEEL LID IN TRAFFIC AREAS.
6	1/2\" ALUMINUM WIRE MESH BEND TO FORM BOX



**5 1\" SERVICE & METER BOX**  
N.T.S.

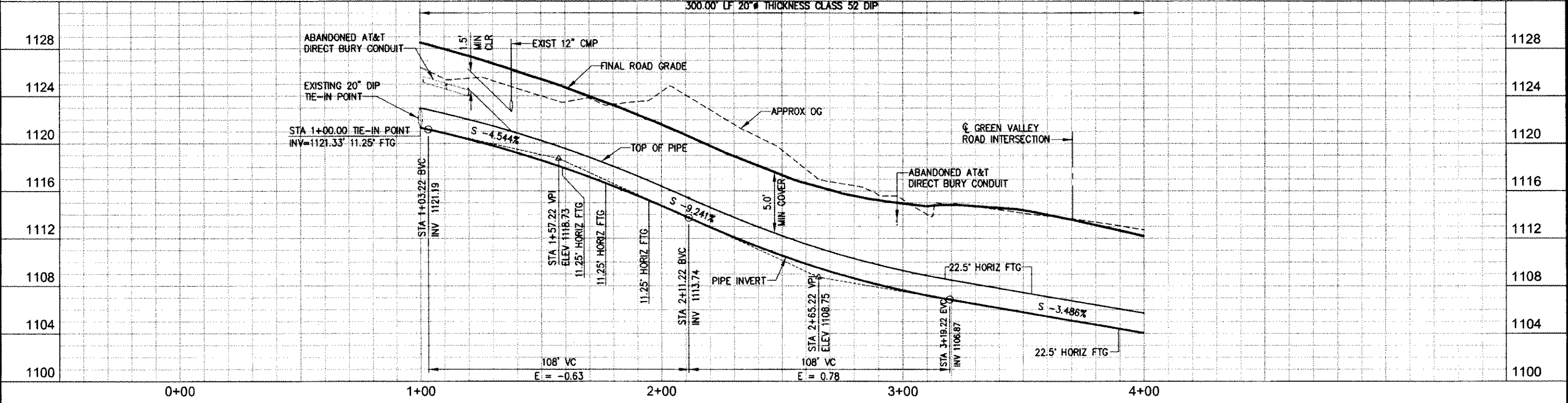
REVISION NUMBER DATE DESCRIPTION BY		PREPARED UNDER THE SUPERVISION OF:  REGISTERED CIVIL ENGINEER DATE: 5/20/10	DESIGNED: RR DRAWN: RR CHECKED: DH DATE: 05/04/10 ROAD NUMBER:		<b>EL DORADO COUNTY</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>GREEN VALLEY ROAD AT TENNESSEE CREEK</b> <b>BRIDGE REPLACEMENT PROJECT</b> <b>6\" WATERLINE DETAILS</b>	SHEET <b>W-4</b> 55 OF 61 W.C. No. 77109
		10.0299.2C.55					

Drawing name: C:\Civil 3D Projects\77109 Tennessee Creek\CADD Files\Sheets\W-5.dwg Layout Tab: W-5 Dec 14, 2010 - 12:06pm D:\herringt  
 ORIGINAL SCALE IS IN INCHES  
 FOR REDUCED PLANS



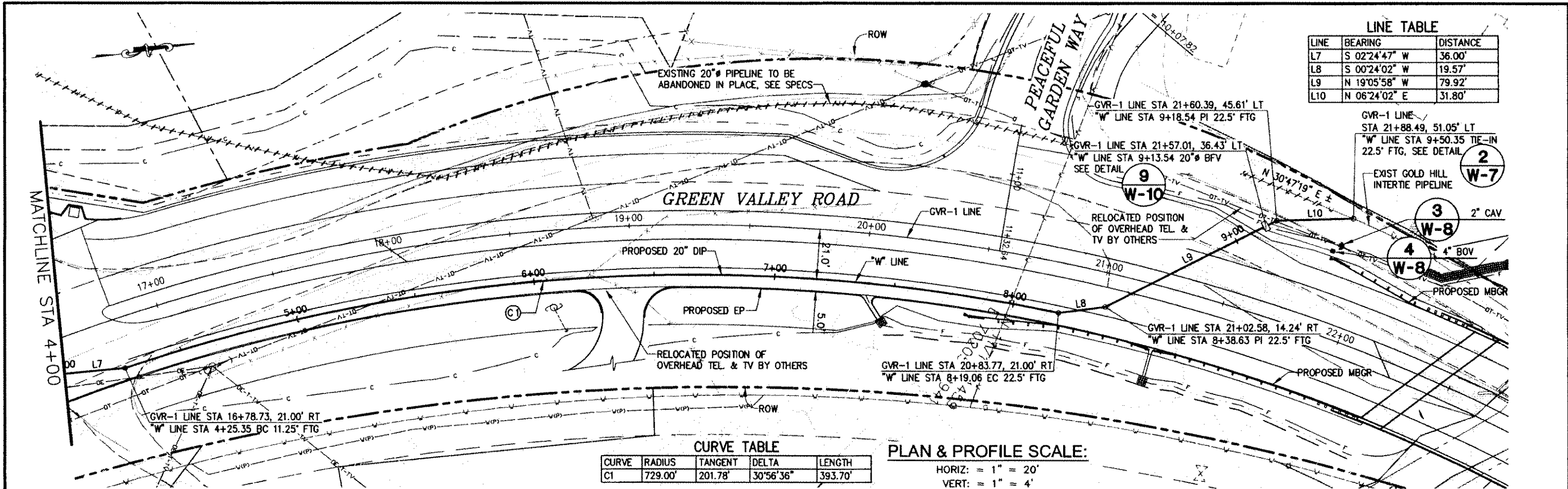
**LINE TABLE**

LINE	BEARING	DISTANCE
L1	N 45°31'35" E	58.76'
L2	N 54°32'20" E	18.00'
L3	N 64°43'35" E	18.00'
L4	N 74°54'50" E	122.59'
L5	N 50°44'49" E	36.00'
L6	N 26°34'48" E	36.00'
L7	N 02°24'47" E	36.00'



REVISION NO. DATE BY DESCRIPTION		PREPARED UNDER THE SUPERVISION OF  REGISTERED CIVIL ENGINEER DATE: 12-21-10	DESIGNED: JMG DRAWN: DCP CHECKED: DTK DATE: 05/04/10 ROAD NUMBER:		<b>EL DORADO COUNTY</b> DEPARTMENT OF TRANSPORTATION	<b>GREEN VALLEY ROAD AT TENNESSEE CREEK</b> BRIDGE REPLACEMENT PROJECT <b>20" WATERLINE PLAN AND PROFILE</b>	SHEET <b>W-5</b> 56 OF 61 W.D. No. 77109
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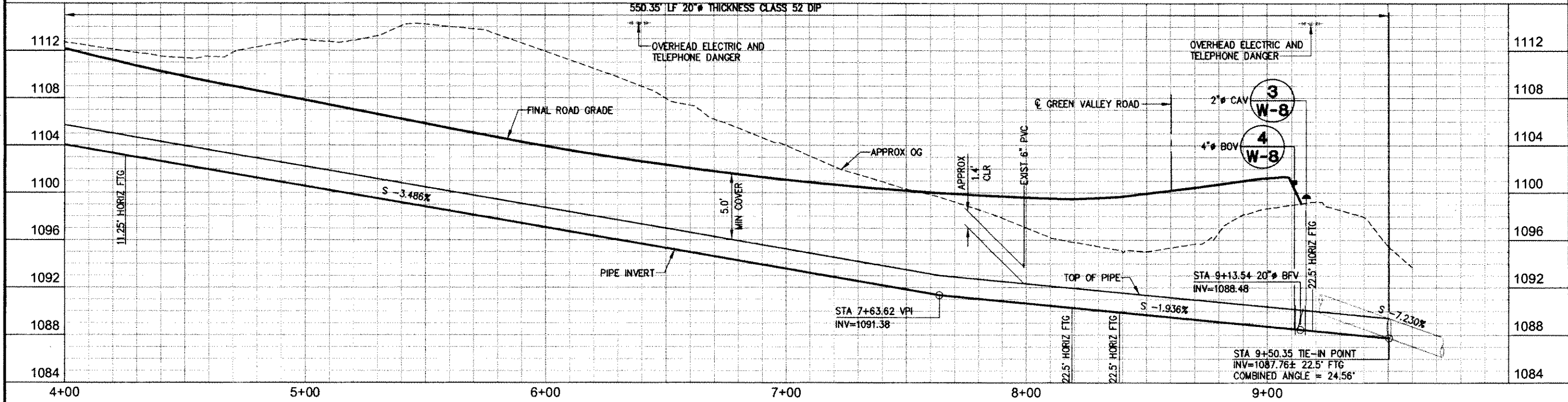
Drawing name: C:\Civil 3D Projects\77109 Tennessee Creek\CADD Files\Sheets\W-6.dwg Layout Tab: W-6 Dec 14, 2010 11:51am D:\harrington



LINE	BEARING	DISTANCE
L7	S 02°24'47" W	36.00'
L8	S 00°24'02" W	19.57'
L9	N 19°05'58" W	79.92'
L10	N 06°24'02" E	31.80'

CURVE	RADIUS	TANGENT	DELTA	LENGTH
C1	729.00'	201.78'	30°56'36"	393.70'

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



REVISION NUMBER DATE DESCRIPTION BY		PREPARED UNDER THE SUPERVISION OF:  REGISTERED CIVIL ENGINEER DATE: 12-21-10	DESIGNED: JMG CHECKED: DTK ROAD NUMBER:	DRAWN: DCP DATE: 05/04/10		<b>EL DORADO COUNTY</b> DEPARTMENT OF TRANSPORTATION	<b>GREEN VALLEY ROAD AT TENNESSEE CREEK</b> BRIDGE REPLACEMENT PROJECT <b>20" WATERLINE PLAN AND PROFILE</b>	SHEET <b>W-6</b> 57 OF 61 P.W. No. 77109
			FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES					10.0299.2C.57



Drawing name: C:\Civil 3D Projects\77109 Tennessee Creek\CADD Files\Sheets\W-7.dwg Layout Tab: W-7 Dec 14, 2010 11:48am DHarringt  
 ORIGINAL SCALE IS IN INCHES  
 FOR REDUCED PLANS  
 REVISION  
 NO. DATE DESCRIPTION BY

**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.

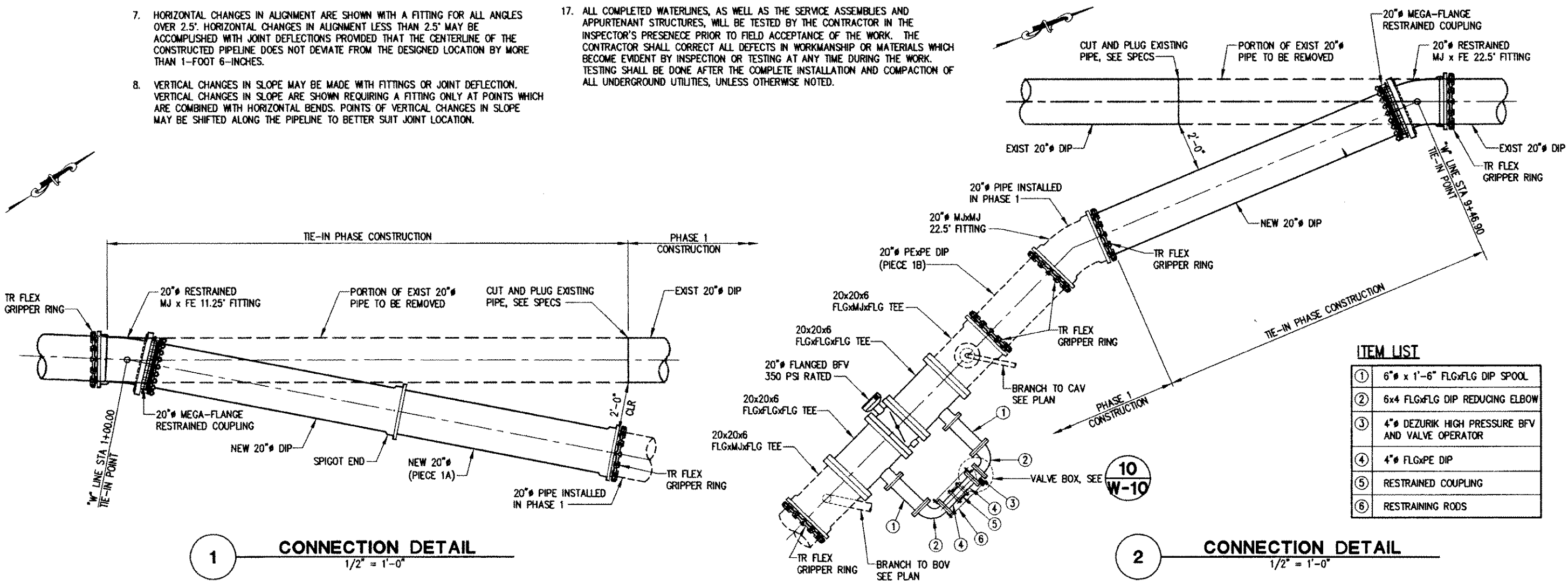
- LOCATION OF AIR VALVE IS SHOWN IN ITS APPROXIMATE LOCATION. THE EXACT LOCATION WILL BE DETERMINED IN THE FIELD BY EID INSPECTION.
- ALL PIPE SHALL HAVE A MINIMUM OF 5- FEET 0-INCHES OF COVER AND ADDITIONAL COVER WHERE SHOWN ON THE DRAWINGS.
- WHERE EXCAVATION FOR ANY FACILITY EXCEEDS 5- FEET IN DEPTH 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 AND 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.

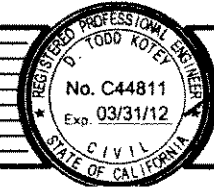
**NOTE:**

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



**1 CONNECTION DETAIL**  
1/2" = 1'-0"

**2 CONNECTION DETAIL**  
1/2" = 1'-0"



PREPARED UNDER THE SUPERVISION OF  
*Todd Kott*  
 REGISTERED CIVIL ENGINEER  
 DATE: 12-21-10

DESIGNED: JMG  
 DRAWN: DCP  
 CHECKED: DTK  
 DATE: 05/04/10  
 ROAD NUMBER: 000

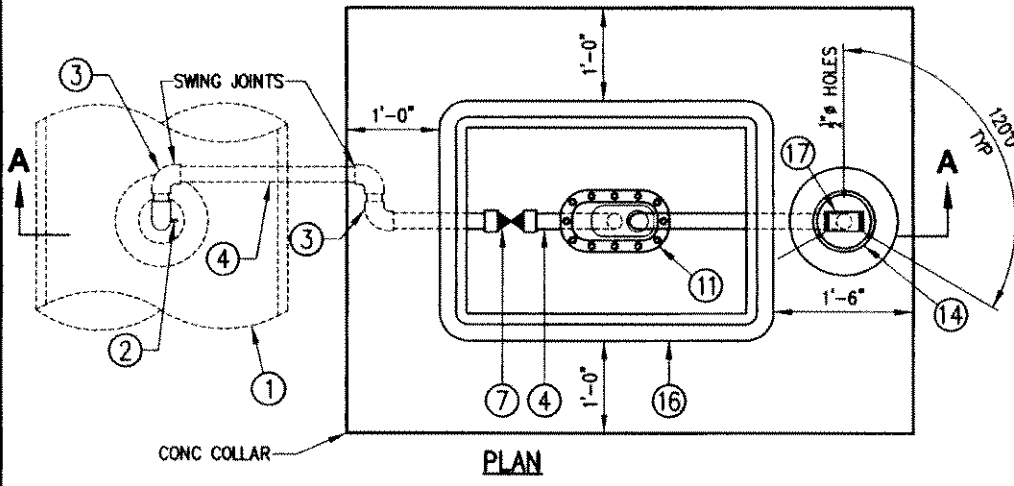


EL DORADO COUNTY  
 DEPARTMENT OF TRANSPORTATION

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

SHEET  
 W-7  
 58 of 61  
 W.D. No. 77109

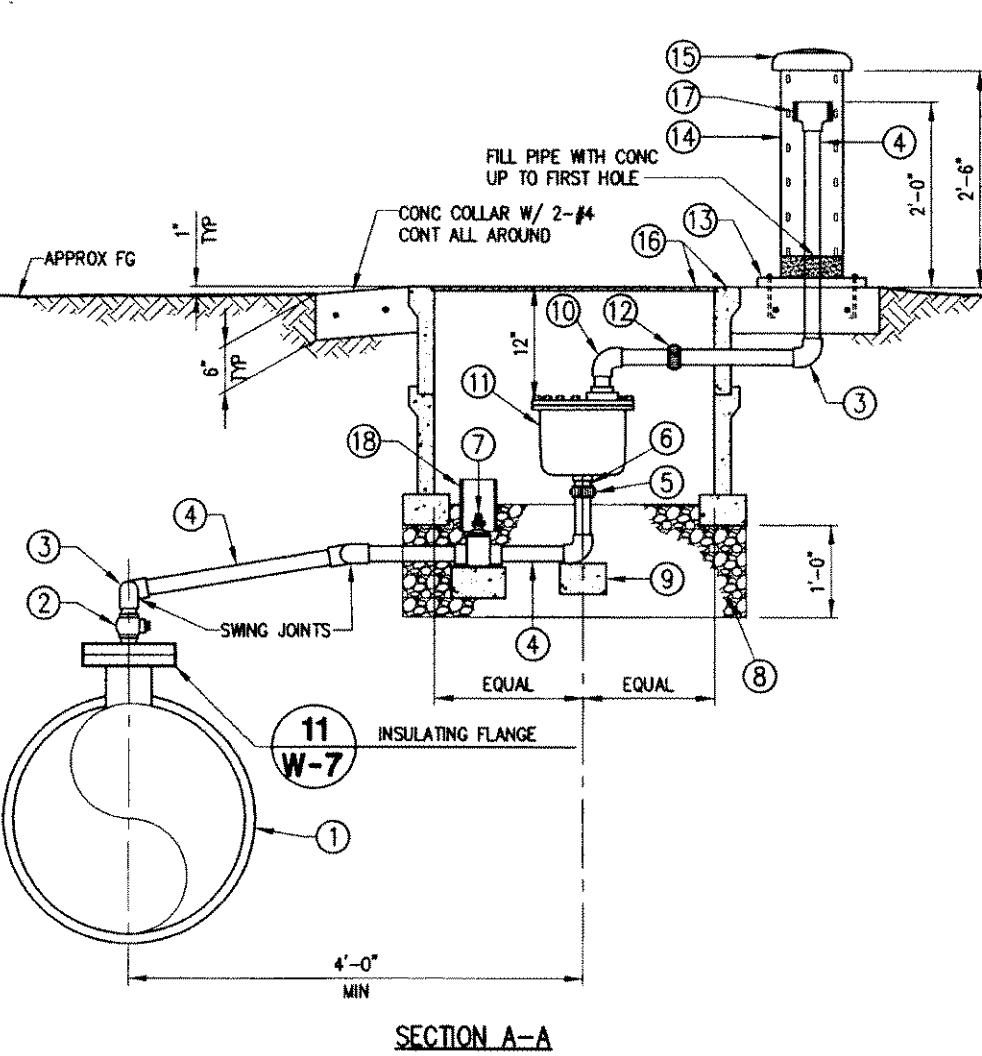
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 ORIGINAL SCALE IS IN INCHES  
 FOR REDUCED PLANS



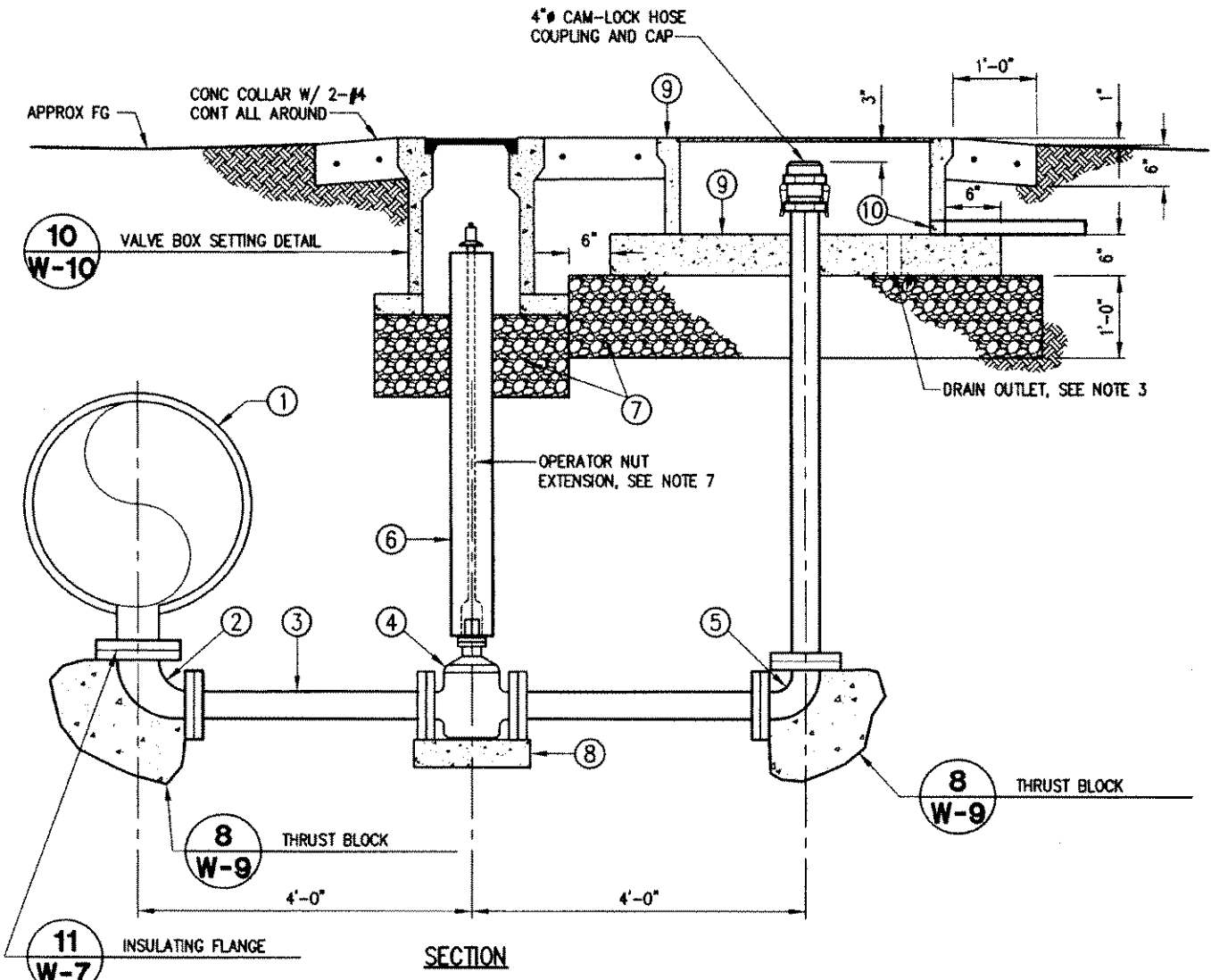
- NOTES:**
1. SIZE OF PIPING SHALL MATCH SIZE OF AIR VALVE.
  2. SEE PLAN FOR VALVE SIZE AND LOCATION.
  3. ALL PIPING ABOVE GROUND TO BE PAINTED.
  4. CENTER VALVE IN LONGITUDINAL DIRECTION IN BOX.
  5. PAINT VENT PIPE ENCLOSURE SIMILAR TO MARKER POST, SAFETY BLUE.
  6. USE CHRISTY B36 FOR 1" VALVE 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	6" x 4" REDUCING 90° BEND
③	4" DIP SPOOL
④	4" HIGH PERFORMANCE BUTTERFLY VALVE
⑤	4" 90° BEND
⑥	PVC OPERATOR RISER
⑦	3/4" CLEAN DRAIN ROCK
⑧	12" x 12" x 4" CONC PAD
⑨	CONCRETE BASE SLAB
⑩	2" PVC DRAIN PIPE
⑪	CHRISTY B36 PRECAST UTILITY BOX



ITEM NO.	DESCRIPTION
①	20"x 20"x 6" COMPACT DIP TEE
②	2" COPPER CORPORATION STOP AWWA I.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	3/4" 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 SCRE CAP
⑯	CONC BOX & C.I. LID, SEE NOTE 6.
⑰	TEE WITH 20-MESH SCREEN ATTACHED AT EACH END.
⑱	4" PVC RISER



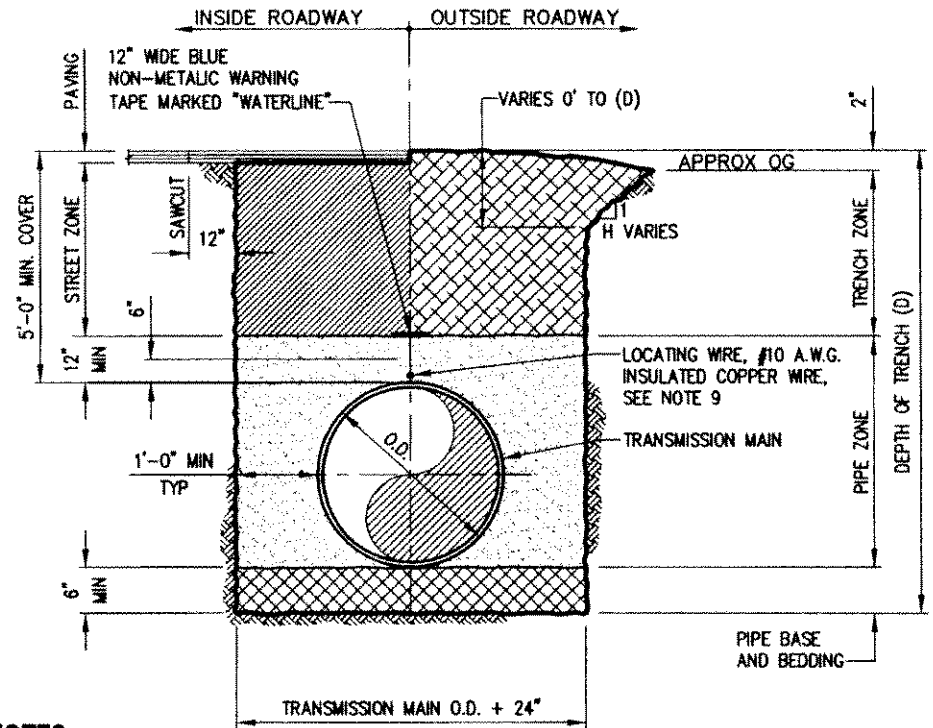
3 1" AND 2" COMBINATION AIR & VACUUM VALVE (CAV)  
NO SCALE

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

REVISION NUMBER DATE DESCRIPTION BY		PREPARED UNDER THE SUPERVISION OF: REGISTERED CIVIL ENGINEER DATE: 12-21-10	DESIGNED: JMG CHECKED: DTK ROAD NUMBER: 000	DRAWN: DCP DATE: 05/04/10		EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION	GREEN VALLEY ROAD AT TENNESSEE CREEK BRIDGE REPLACEMENT PROJECT 20" WATERLINE DETAILS	SHEET W-8 59 OF 61 W.D. No. 77109
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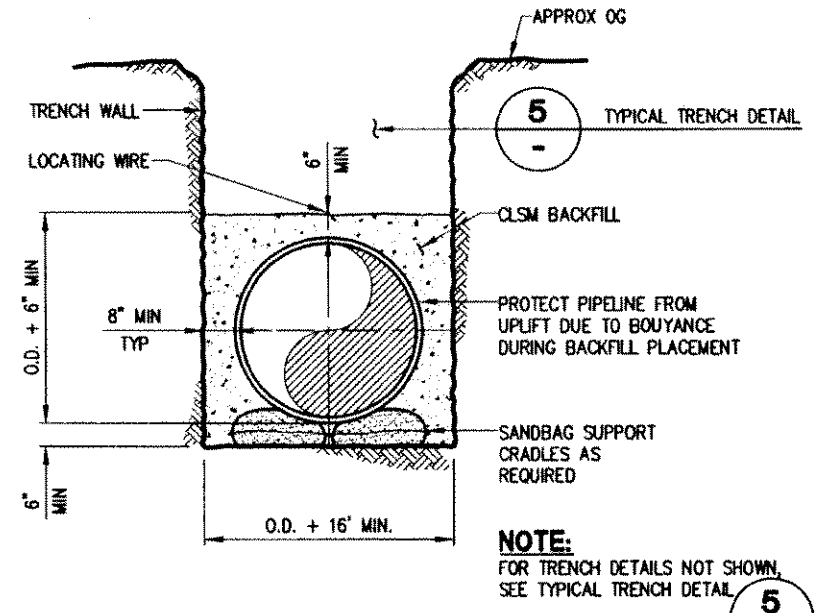
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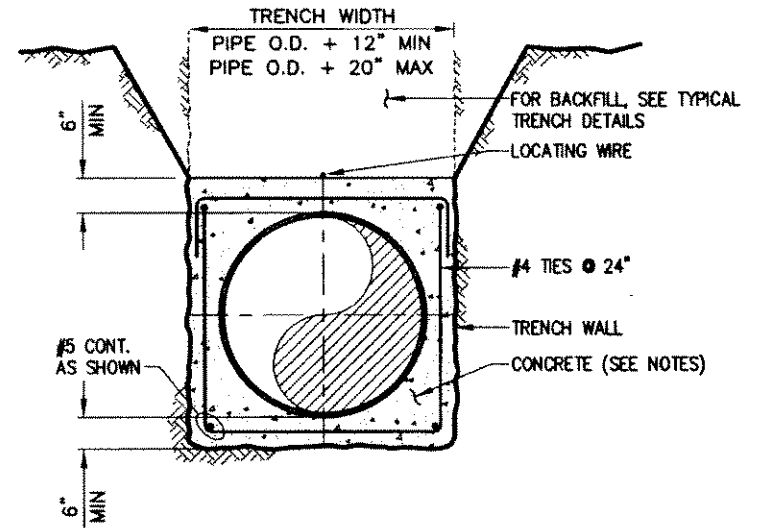
**NOTES:**

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 EID STANDARDS OR AS APPROVED BY THE ENGINEER.
10. NO OTHER UTILITIES PERMITTED WITHIN 12" OF WATER FACILITIES

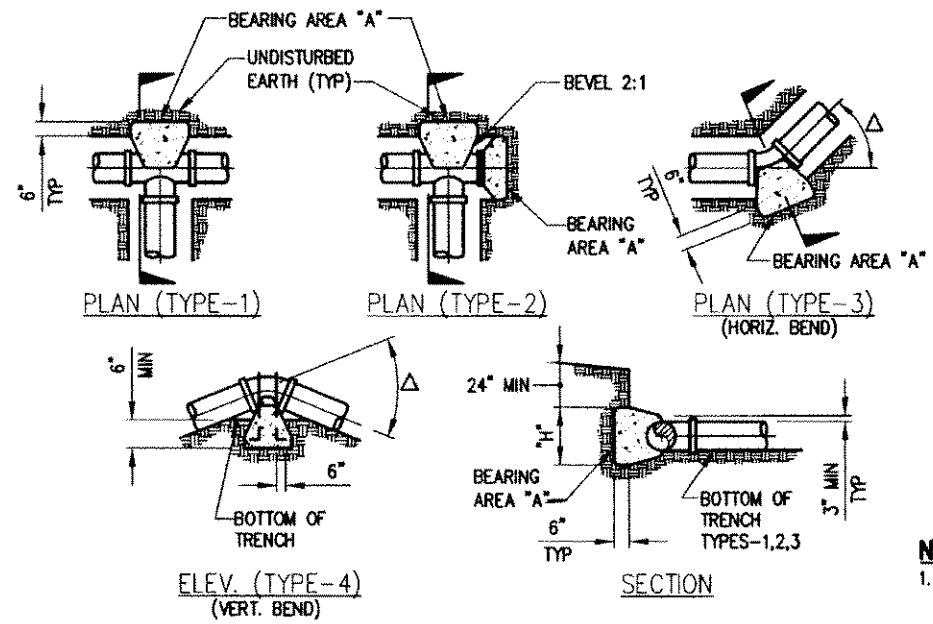
**5 TYPICAL TRENCH DETAIL**  
NO SCALE



**6 CLSM BACKFILL DETAIL**  
NO SCALE



**7 PIPE ENCASEMENT DETAIL**  
NO SCALE



REBAR SIZES (VERTICAL THRUST ONLY)		
PIPE SIZE	Δ	REBAR
20"	0-22.5'	#6
20"	45'	#8
20"	90'	#10

**THRUST BLOCKS SCHEDULE**

PIPE DIA. (in.)	TEST PRESSURE (P.S.I.)	THRUST BLOCK BEARING AREA "A" (S.F.)				ANCHOR BLOCK VOL. OF CONCRETE (C.Y.)	
		Δ 90°	Δ 45°	Δ 22.5°	Δ 11.25°	TEE OR BULKHEAD	
4"	300	7.00	4.00	2.00	1.00	5.00	0.15
6"	300	7.00	4.00	2.00	1.00	5.00	0.15
20"	300	78.0	42.0	22.0	11.0	55.0	4.30

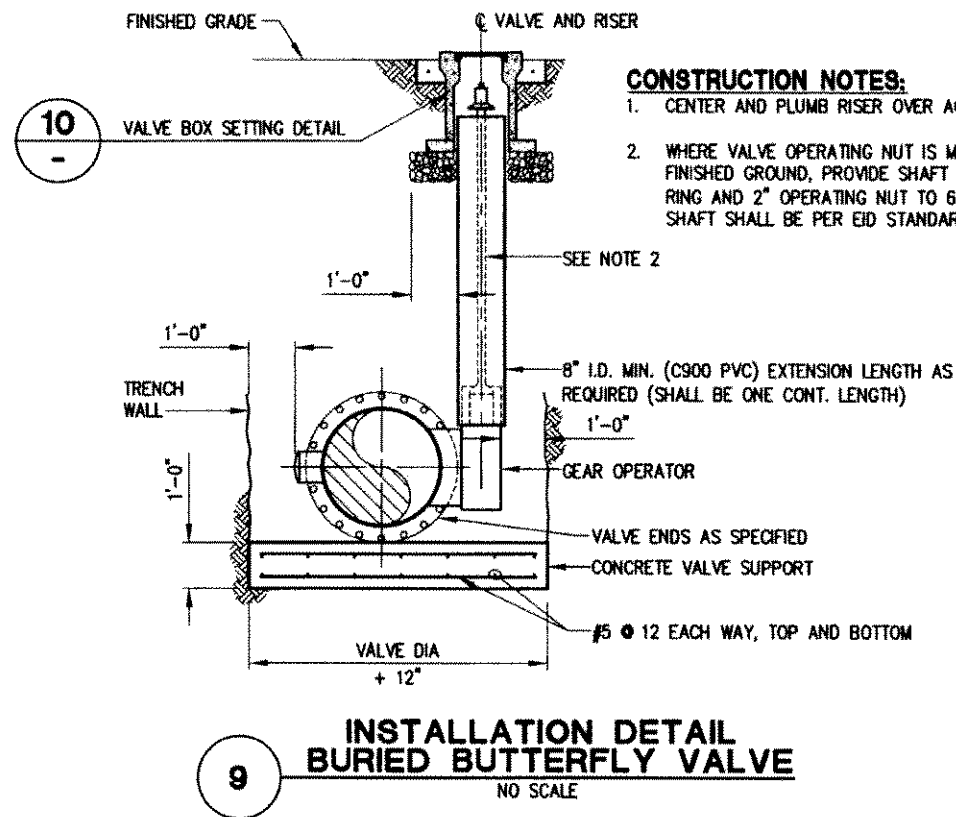
**NOTES:**

1. THRUST BLOCK DESIGN IS BASED ON TEST PRESSURE=300psi, SOIL BEARING PRESSURE=1500lbs/sf. INSTALLATIONS USING HIGHER PRESSURE OR LOWER SOIL BEARING PRESSURE SHALL BE ADJUSTED ACCORDINGLY, AND SUBMITTED FOR APPROVAL BY EID 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

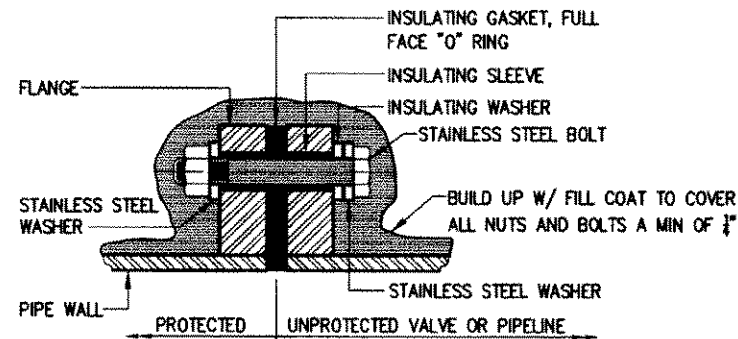
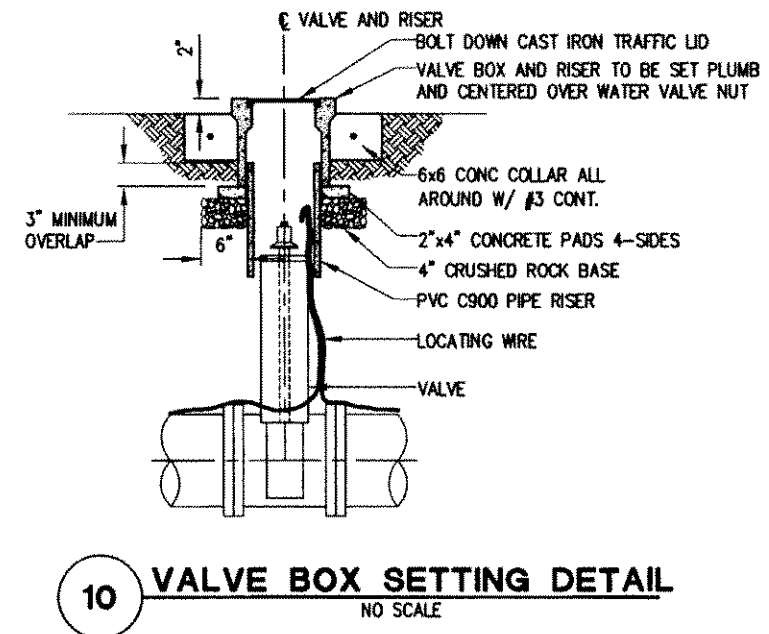
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			PROJECT: 10.0299.2C.60					

Drawing name: C:\Civil 3D Projects\77109 Tennessee Creek\CADD Files\Sheets\W-10.dwg Layout Tab: W-10 Dec 14, 2010 - 10:56am Dhorrin  
 ORIGINAL SCALE IS IN INCHES  
 FOR REDUCED PLANS



**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 W14.



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

REVISION NUMBER DATE DESCRIPTION BY		PREPARED UNDER THE SUPERVISION OF  REGISTERED CIVIL ENGINEER DATE: 12-21-10	DESIGNED: JMG CHECKED: DTK ROAD NUMBER: 000	DRAWN: DCP DATE: 05/04/10		<b>EL DORADO COUNTY</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>GREEN VALLEY ROAD AT TENNESSEE CREEK</b> <b>BRIDGE REPLACEMENT PROJECT</b> <b>20" WATERLINE DETAILS</b>	SHEET <b>W-10</b>
		61 OF 61 W.O. No. <b>77109</b>						