

INDEX OF SHEETS

SHEET	PLAN SHEET	TITLE
1		TITLE SHEET
2	CD-1	SURVEY CONTROL DIAGRAM
3	L-1	LAYOUT SHEET
4	L-2	LAYOUT SHEET
5	L-3	LAYOUT SHEET (ESA FENCE)
6	C-1	CONSTRUCTION DETAILS
7	R-1	REVEGETATION PLAN

STRUCTURE PLANS

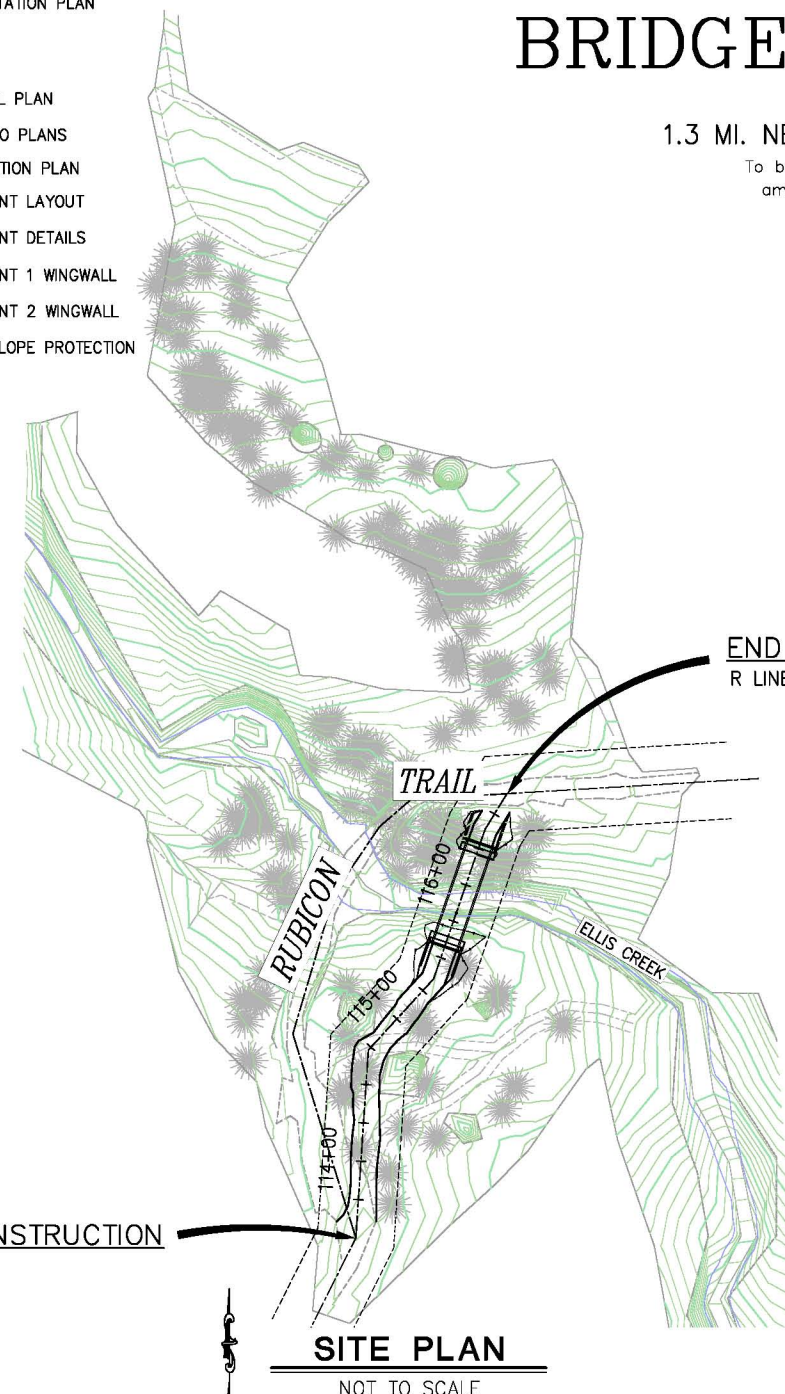
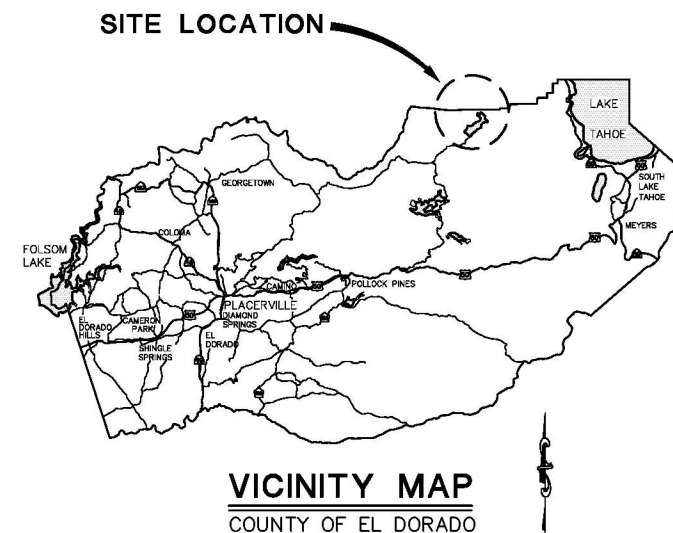
8	S-1	GENERAL PLAN
9	S-2	INDEX TO PLANS
10	S-3	FOUNDATION PLAN
11	S-4	ABUTMENT LAYOUT
12	S-5	ABUTMENT DETAILS
13	S-6	ABUTMENT 1 WINGWALL
14	S-7	ABUTMENT 2 WINGWALL
15	S-8	ROCK SLOPE PROTECTION

DEPARTMENT OF TRANSPORTATION COUNTY OF EL DORADO, CA

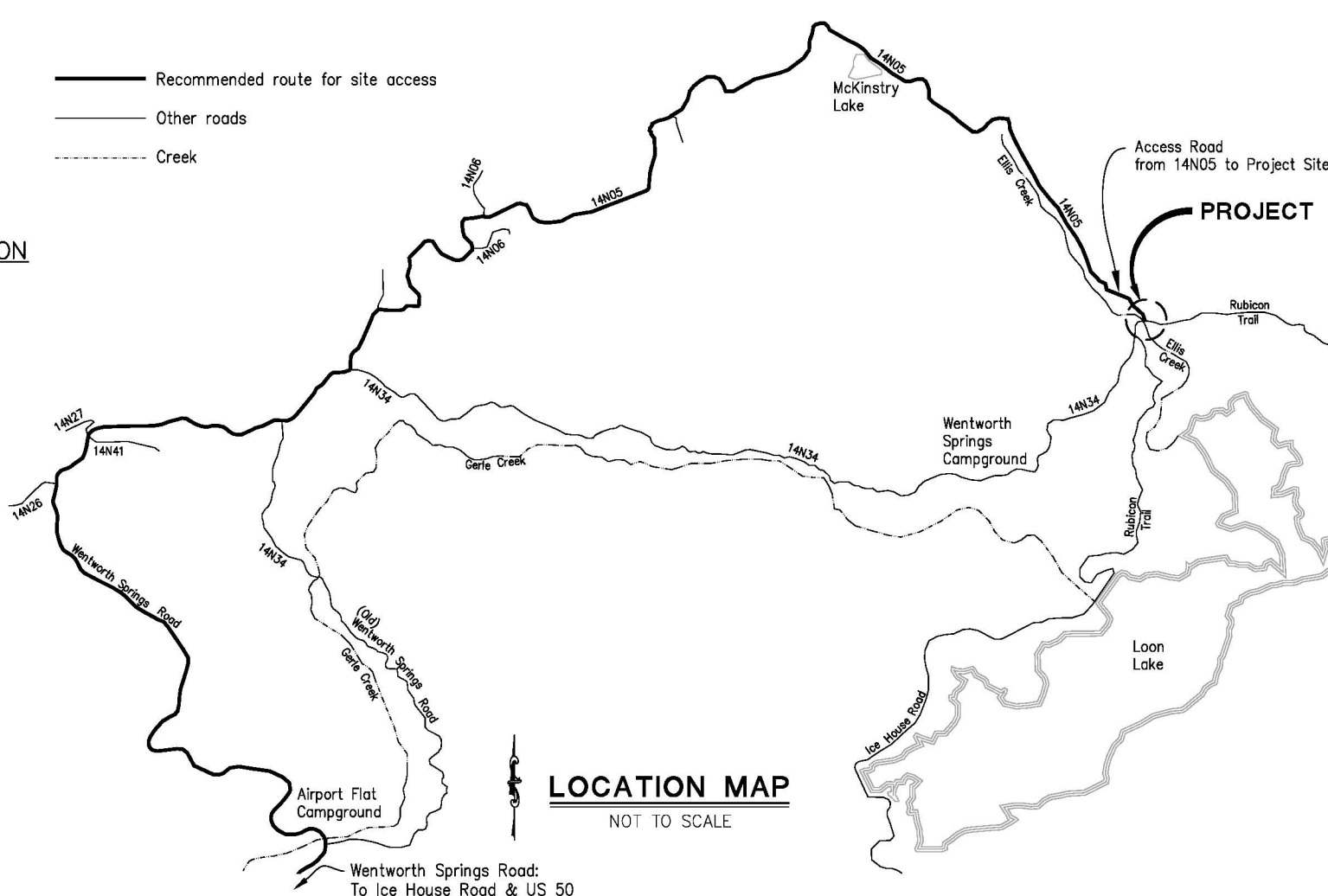
PROJECT PLANS FOR THE CONSTRUCTION OF RUBICON TRAIL AT ELLIS CREEK BRIDGE REPLACEMENT PROJECT

IN THE COUNTY OF EL DORADO, DISTRICT 4
1.3 MI. NE OF WENTWORTH SPRINGS, IN THE ELDORADO NATIONAL FOREST

To be supplemented with Standard Plans and Specifications dated May 2006, including the amendments to the May 2006 Standard Specifications, of the California Department of Transportation, unless otherwise noted.



Recommended route for site access
 Other roads
 Creek



BOARD OF SUPERVISORS

I	RON MIKULACO
II	RAYMOND J. NUTTING
III	BRIAN K. VEERKAMP
IV	RON BRIGGS
V	NORMA SANTIAGO

**COUNTY OF EL DORADO
DEPARTMENT OF
TRANSPORTATION**

(530) 621-5900
2850 FAIRLANE CT
PLACERVILLE, CA 95667

ADOPTED AND APPROVED BY:

DATE	DATE	DATE

RON BRIGGS, CHAIR, EL DORADO COUNTY BOARD OF SUPERVISORS
 APPROVED BY:
 KIMBERLY A. KERR, INTERIM DIRECTOR, EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION
 MATTHEW D. SMELTZER (P.E. NO. C88832), DEPUTY DIRECTOR OF ENGINEERING, EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT: BRLO 5925 (054)
 PW No. 11-30572 CONTRACT No. 77117

**RUBICON TRAIL AT ELLIS CREEK
BRIDGE REPLACEMENT PROJECT**

TITLE SHEET

SHEET **1** OF **15**

REVISIONS

MARK	DATE	BY

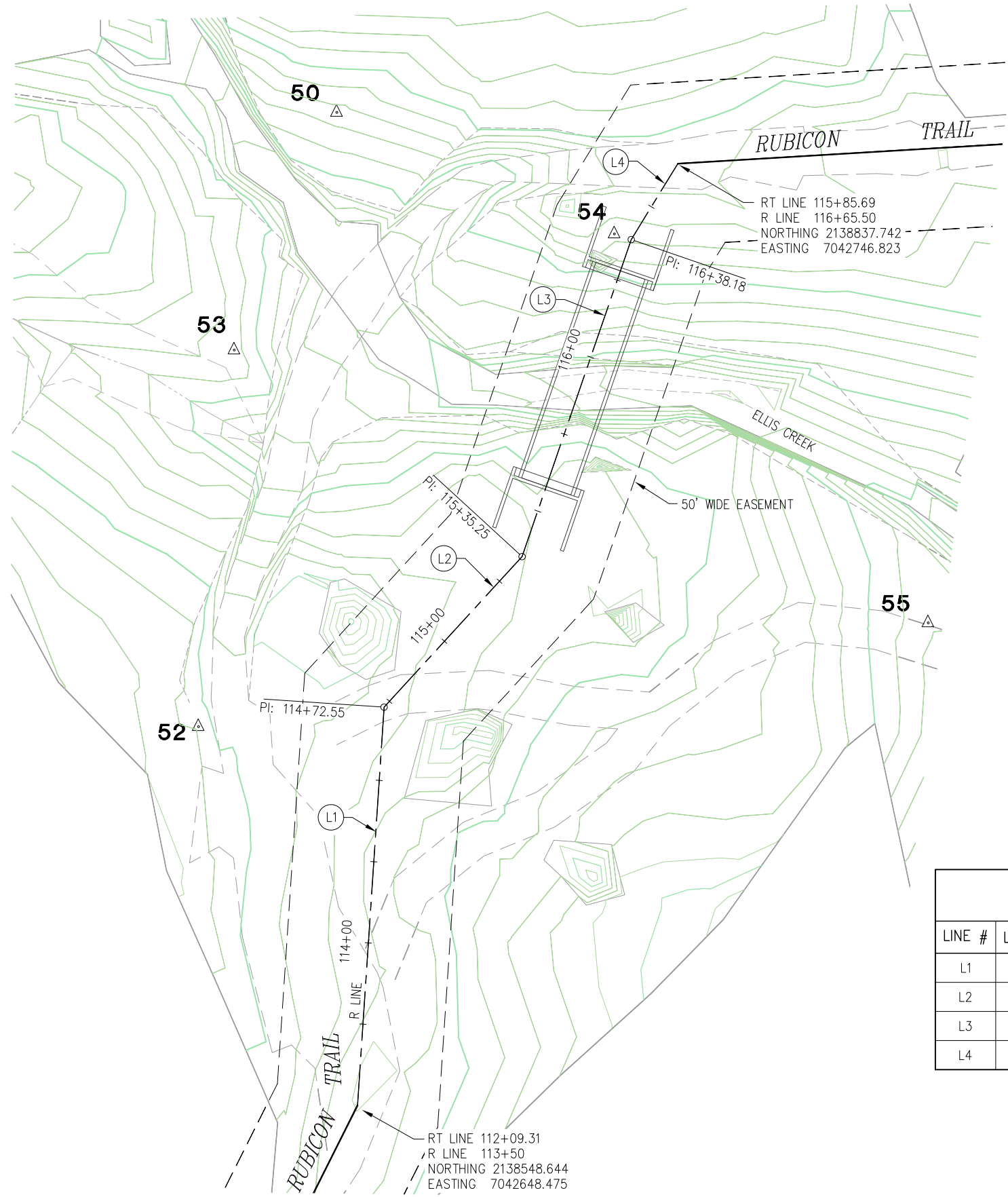


CONTRACTOR'S LICENSE CLASSIFICATION: Bidders shall be properly licensed to perform the Work pursuant to the State Contractor's License Act (Business and Professions Code section 7000 et seq.) and shall possess a CLASS A LICENSE or equivalent combination of Classes required by the categories and type of Work included in the Contract Documents and Plans. If the Contractor possesses a Class A license instead of the equivalent combination of Classes required by the categories and type of work included in the Contract Documents and Plans, then the Contractor or a subcontractor must also possess a CLASS C27 "Landscaping Contractor" license. Failure of the successful Bidder to obtain proper and adequate licensing for an award of the Contract shall constitute a failure to execute the Contract, and forfeiture as provided under that section.

DUSTIN W. HARRINGTON
 CIVIL ENGINEER
 STATE OF CALIFORNIA No.71517
 DATE: 3/01/13

DATE: 3/01/13

ORIGINAL SCALE IS IN INCHES
 Drawing name: C:\Civil 3D\Projects\77117 Ellis Creek\CADD Files\Sheets\CD-1.dwg Layout Tab: CD-1 Mar 04, 2013 3:25pm dharrington
 FOR REDUCED PLANS
 2
 1
 0
 REVISION
 NUMBER DATE DESCRIPTION BY



#△ - DENOTES TARGET LOCATION AND ELEVATION

CONTROL TABLE				
CONTROL NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
50	2138853.499	7042642.122	6527.58	CP ECT
52	2138664.920	7042599.645	6530.95	CP ECT
53	2138780.550	7042610.627	6526.49	AUX CP ECT
54	2138816.187	7042727.357	6527.38	CP ECT
55	2138696.788	7042823.737	6518.32	CP ECT
*56	2139093.550	7042647.579	6548.77	CP ECT
*57	2138554.684	7042970.368	6514.89	AUX CP ECT

* - NOT SHOWN ON SURVEY DIAGRAM PLAN

ALIGNMENT LINE DATA				
LINE #	LENGTH	BEARING	START POINT	END POINT
L1	122.55	N03° 49' 01"E	N 2138548.644, E 7042648.475	N 2138548.644, E 7042656.633
L2	62.70	N42° 31' 09"E	N 2138670.920, E 7042656.633	N 2138670.920, E 7042699.007
L3	102.93	N19° 00' 24"E	N 2138717.132, E 7042699.007	N 2138717.132, E 7042732.529
L4	27.33	N31° 32' 18"E	N 2138814.451, E 7042732.529	N 2138814.451, E 7042746.823

HORIZONTAL DATUM

BEARINGS, DISTANCES, STATIONING AND COORDINATES SHOWN ARE ON THE CALIFORNIA STATE COORDINATE SYSTEM, NAD 83 ZONE 2. DISTANCES SHOWN ARE GRID DISTANCES. DIVIDE DISTANCES SHOWN BY 0.99985645 TO OBTAIN GROUND DISTANCES.

VERTICAL DATUM

ELEVATIONS SHOWN HEREON ARE REFERENCED TO NGVD 29 FROM GPS OBSERVATIONS

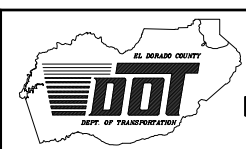
PLAN - RUBICON TRAIL at ELLIS CREEK

SURVEY CONTROL DIAGRAM
SCALE : 1" = 20'



PREPARED UNDER THE SUPERVISION OF:
Loren A. Mastropolo
 PROFESSIONAL LAND SURVEYOR
 DATE: 3/01/13

DESIGNED: LM
 DRAWN: RR
 CHECKED: LM
 DATE: 2/26/13
 ROAD NUMBER:

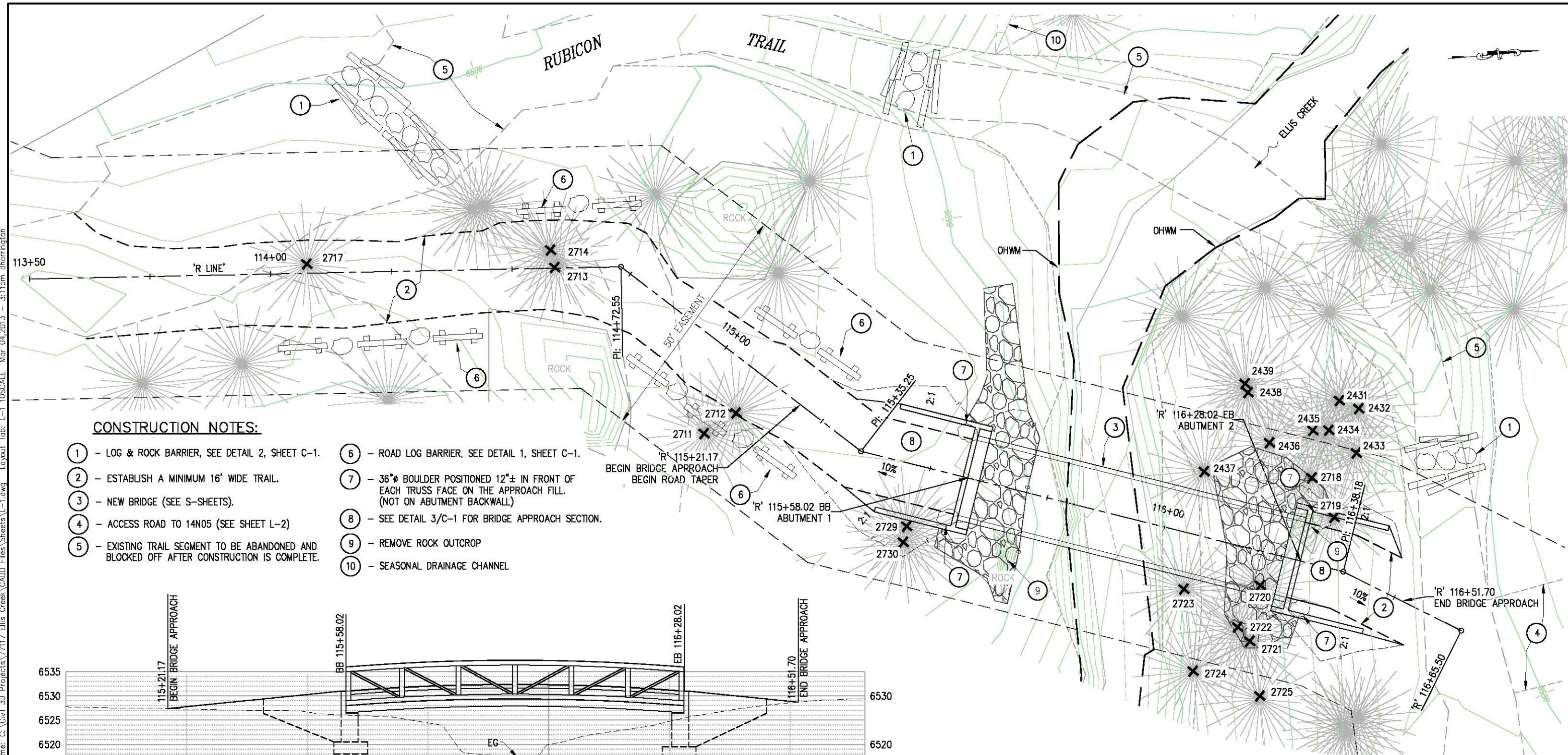


EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

RUBICON TRAIL at ELLIS CREEK
BRIDGE REPLACEMENT PROJECT

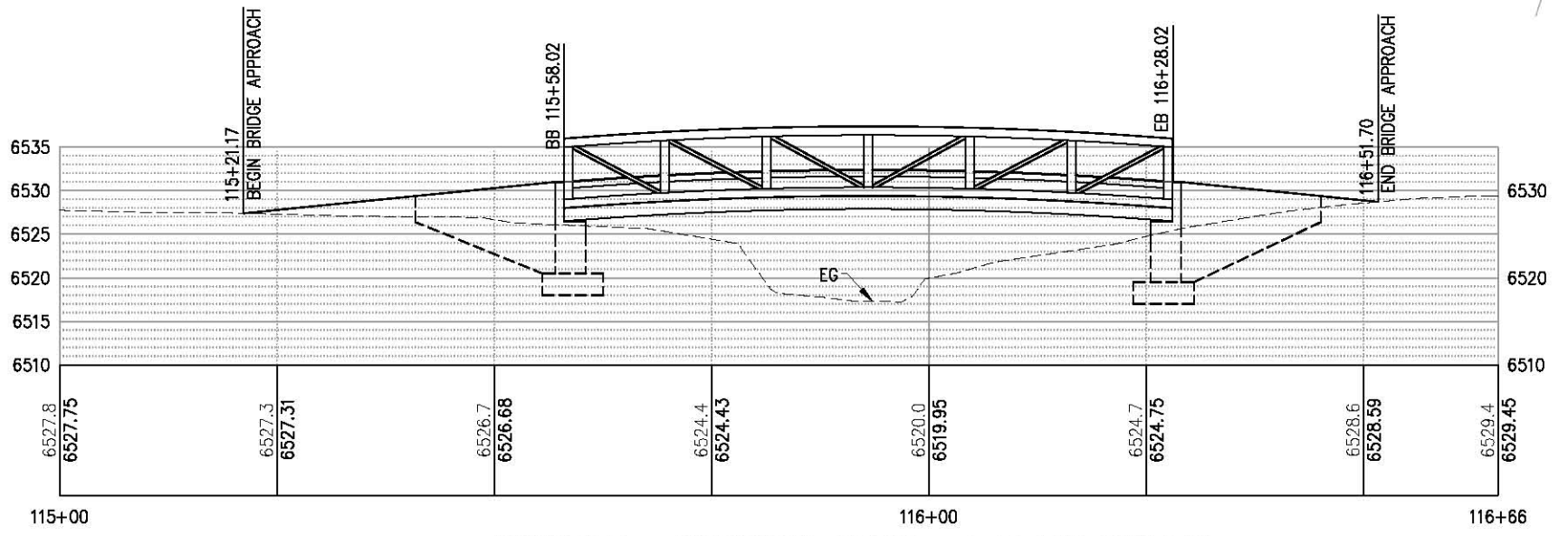
SHEET
CD-1
 2 OF 15
 W.O. No. **77117**

ORIGINAL SCALE: 1/8" = 1' IN INCHES
 Drawing name: C:\Civil_3D\Projects\77117 Ellis Creek\CADD\Files\Sheets\L-1.dwg Layout Tab: L-1 10SCALE Mar 04 2013 3:11pm dharrington
 FOR REDUCED PLANS



CONSTRUCTION NOTES:

- ① - LOG & ROCK BARRIER, SEE DETAIL 2, SHEET C-1.
- ② - ESTABLISH A MINIMUM 16' WIDE TRAIL.
- ③ - NEW BRIDGE (SEE S-SHEETS).
- ④ - ACCESS ROAD TO 14N05 (SEE SHEET L-2)
- ⑤ - EXISTING TRAIL SEGMENT TO BE ABANDONED AND BLOCKED OFF AFTER CONSTRUCTION IS COMPLETE.
- ⑥ - ROAD LOG BARRIER, SEE DETAIL 1, SHEET C-1.
- ⑦ - 36"Ø BOULDER POSITIONED 12"± IN FRONT OF EACH TRUSS FACE ON THE APPROACH FILL. (NOT ON ABUTMENT BACKWALL)
- ⑧ - SEE DETAIL 3/C-1 FOR BRIDGE APPROACH SECTION.
- ⑨ - REMOVE ROCK OUTCROP
- ⑩ - SEASONAL DRAINAGE CHANNEL



PROFILE - RUBICON TRAIL at ELLIS CREEK

SCALE: 1"=10'

PLAN - RUBICON TRAIL at ELLIS CREEK

SCALE: 1"=10'

- NOTES:**
- SEE SHEET L-3 FOR ESA FENCE LOCATION
 - SEE S-SHEETS FOR ROCK SLOPE PROTECTION PLACEMENT AT ABUTMENTS.
 - ✕ - TREE TO BE REMOVED AND TAG NUMBER SEE APPENDIX C OF SPECIFICATIONS
 - OHWM - ORDINARY HIGH WATER MARK

LAYOUT
SCALE: 1" = 10'

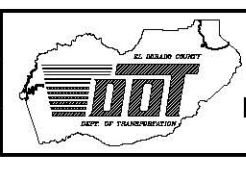
REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER
 3/01/13
 DATE:

DESIGNED: DH
 DRAWN: RR
 CHECKED: DH
 DATE: 2/26/13
 ROAD NUMBER:

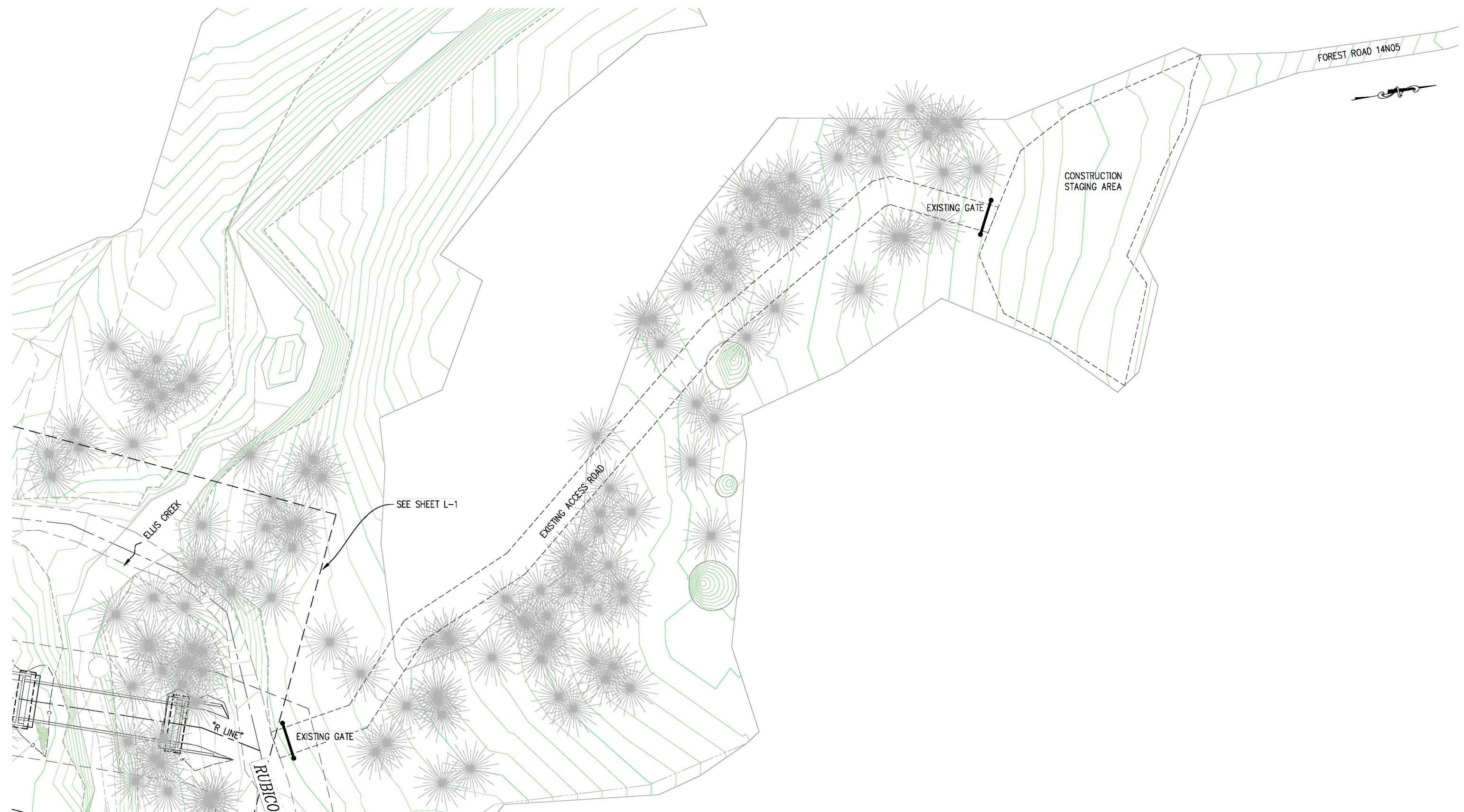


EL DORADO COUNTY
 DEPARTMENT OF TRANSPORTATION

RUBICON TRAIL at ELLIS CREEK
 BRIDGE REPLACEMENT PROJECT

SHEET
L-1
 3 OF 15
 W.O. No. 77117

ORIGINAL SCALE IS IN INCHES
 Drawing name: C:\Civil 3D\Projects\77117 Ellis Creek\CADD\Files\Sheets\L-2.dwg Layout Tab: L-2 Mer: 04/20/13 - 3:13pm dharrington
 FOR REDUCED PLANS



PLAN - RUBICON TRAIL at ELLIS CREEK

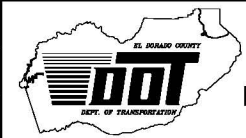
LAYOUT
SCALE : 1" = 20'

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF :
Dustin W. Harrington
 REGISTERED CIVIL ENGINEER
 DATE: 3/01/13

DESIGNED: DH
 DRAWN: RR
 CHECKED: DH
 DATE: 2/26/13
 ROAD NUMBER:

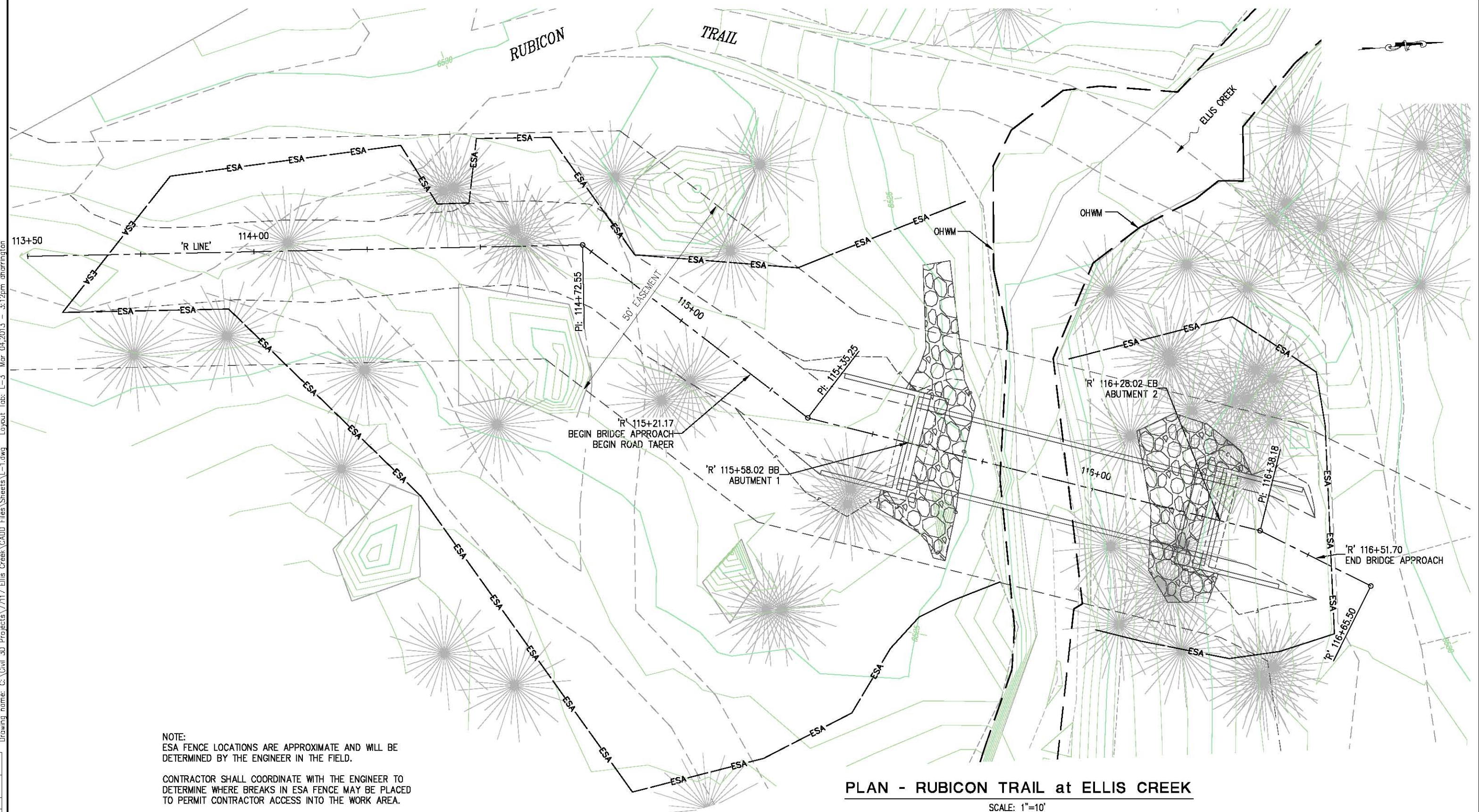


EL DORADO COUNTY
 DEPARTMENT OF TRANSPORTATION

RUBICON TRAIL at ELLIS CREEK
 BRIDGE REPLACEMENT PROJECT

SHEET
L-2
 4 OF 15
 W.O. No. 77117

ORIGINAL SCALE IS IN INCHES
 Drawing name: C:\Civil 3D Projects\77117 Ellis Creek\CADD Files\Sheets\L-1.dwg Layout Tab: L-3 Mar 04 2013 3:12pm dharrington
 FOR REDUCED PLANS



NOTE:
 ESA FENCE LOCATIONS ARE APPROXIMATE AND WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.
 CONTRACTOR SHALL COORDINATE WITH THE ENGINEER TO DETERMINE WHERE BREAKS IN ESA FENCE MAY BE PLACED TO PERMIT CONTRACTOR ACCESS INTO THE WORK AREA.
 THE WORK AREA SHALL BE FULLY ENCLOSED BY ESA FENCE WHEN THE CONTRACTOR IS OFF SITE AND NO WORK IS BEING PERFORMED.

PLAN - RUBICON TRAIL at ELLIS CREEK

SCALE: 1"=10'
 OHWM-ORDINARY HIGH WATER MARK

LAYOUT (ESA FENCE)
 SCALE : 1" = 10'

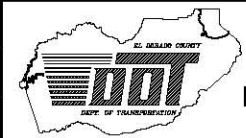
REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF :

 REGISTERED CIVIL ENGINEER
 3/01/13
 DATE:

DESIGNED: DH
 DRAWN: RR
 CHECKED: DH
 DATE: 2/26/13
 ROAD NUMBER:

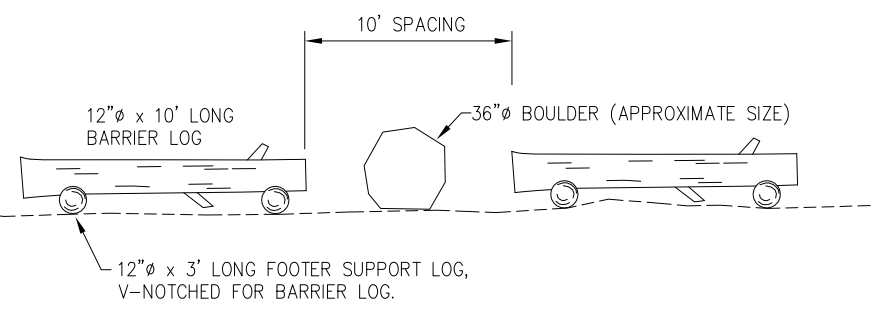


EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

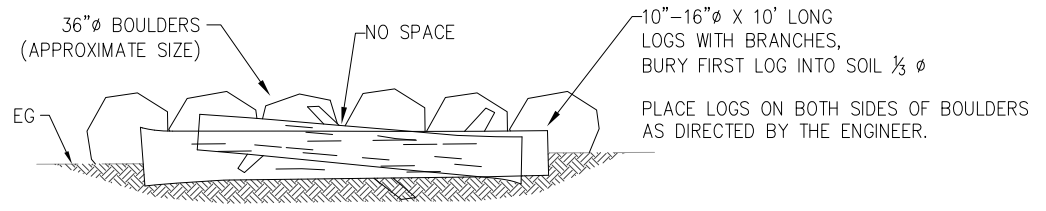
RUBICON TRAIL at ELLIS CREEK
BRIDGE REPLACEMENT PROJECT

SHEET
L-3
 5 OF 15
 W.O. No. 77117

ORIGINAL SCALE IS IN INCHES
 Drawing name: C:\Civil 3D Projects\77117 Ellis Creek\CADD Files\Sheets\C-1.dwg Layout Tab: C-1 Mar 12, 2013 1:47pm dharrington
 FOR REDUCED PLANS
 2
 1
 0

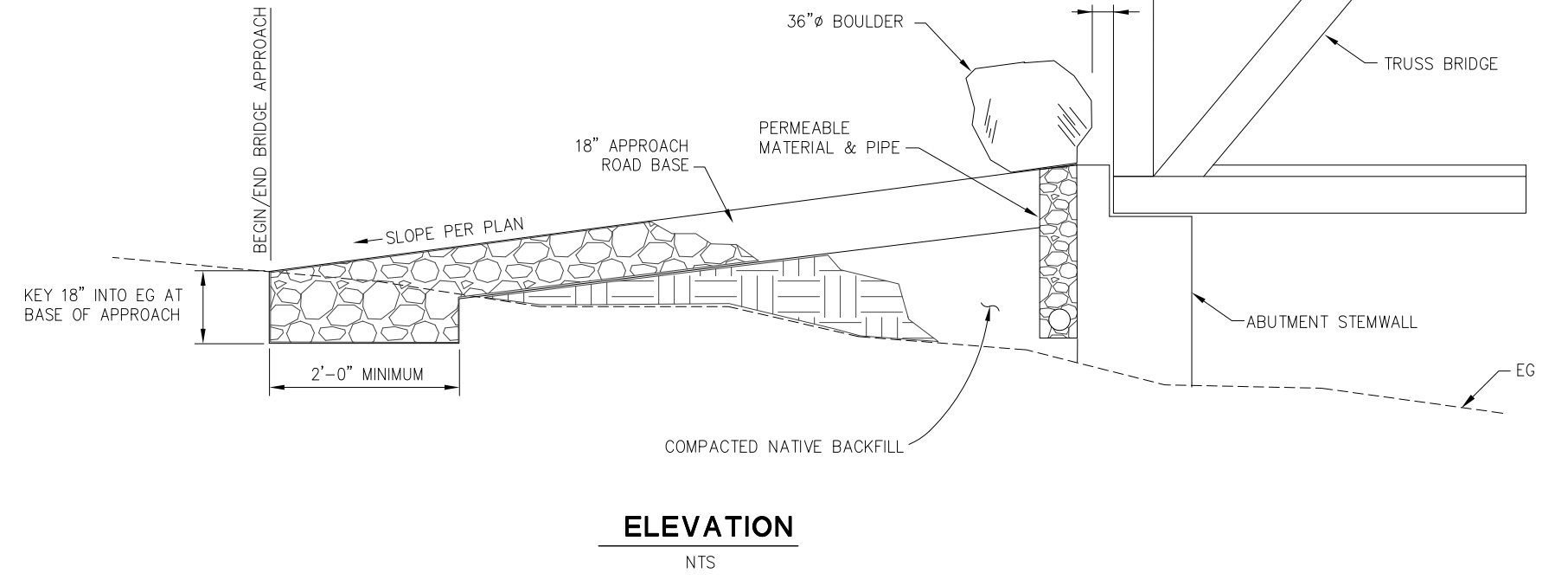


1 ROAD LOG BARRIER
NTS

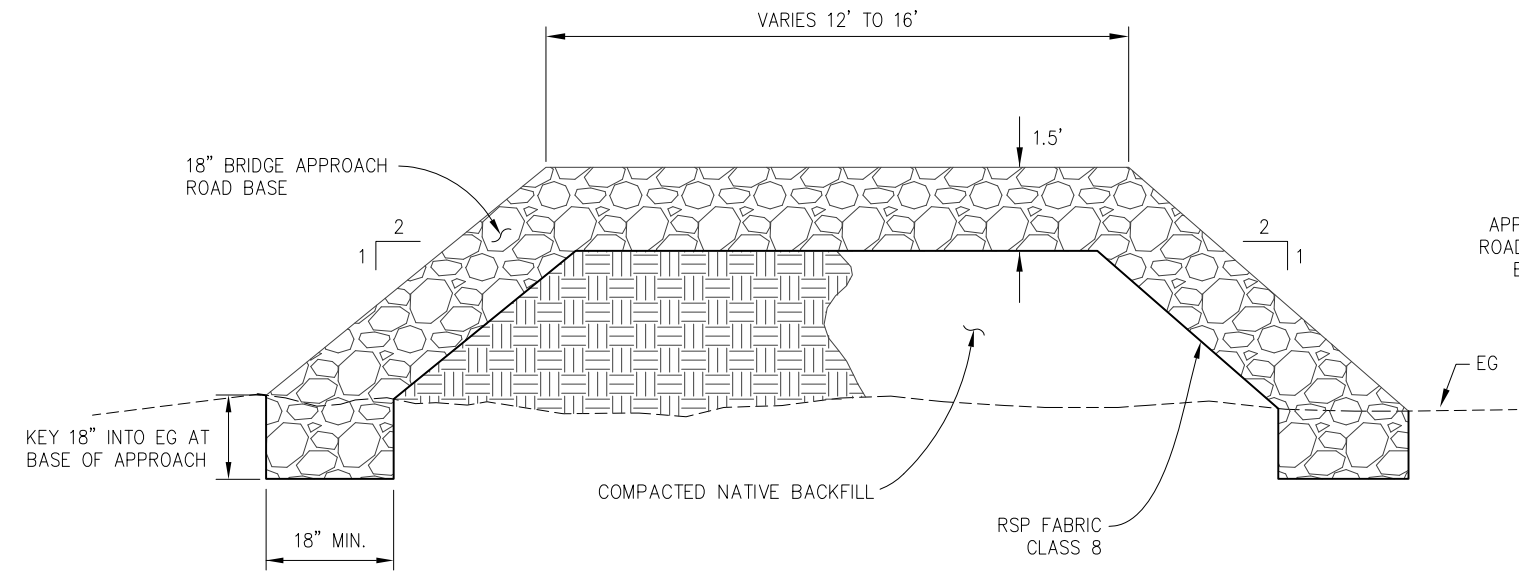


2 LOG & ROCK BARRIER
NTS

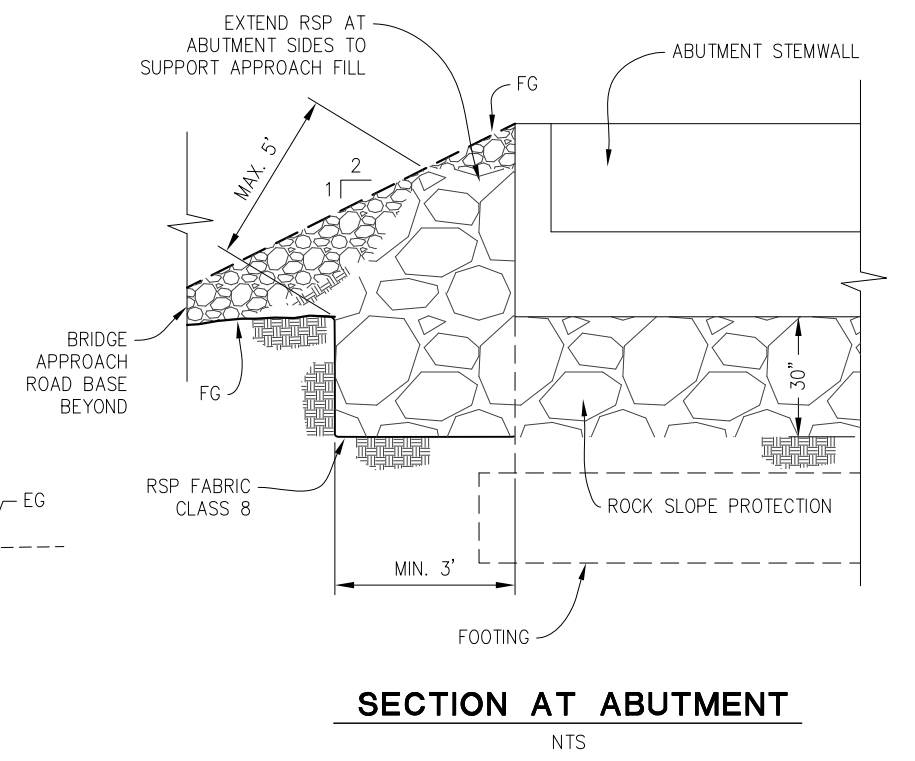
NOTE:
LOG AND ROCK BARRIER TO BE PLACED AFTER NEW BRIDGE AND TRAIL CONSTRUCTION IS COMPLETE.



ELEVATION
NTS



3 BRIDGE APPROACH SECTION
NTS



SECTION AT ABUTMENT
NTS

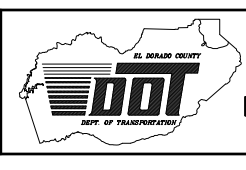
REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF :

 REGISTERED CIVIL ENGINEER
 DATE: 3/01/13

DESIGNED: DH
 DRAWN: RR
 CHECKED: DH
 DATE: 2/26/13
 ROAD NUMBER:



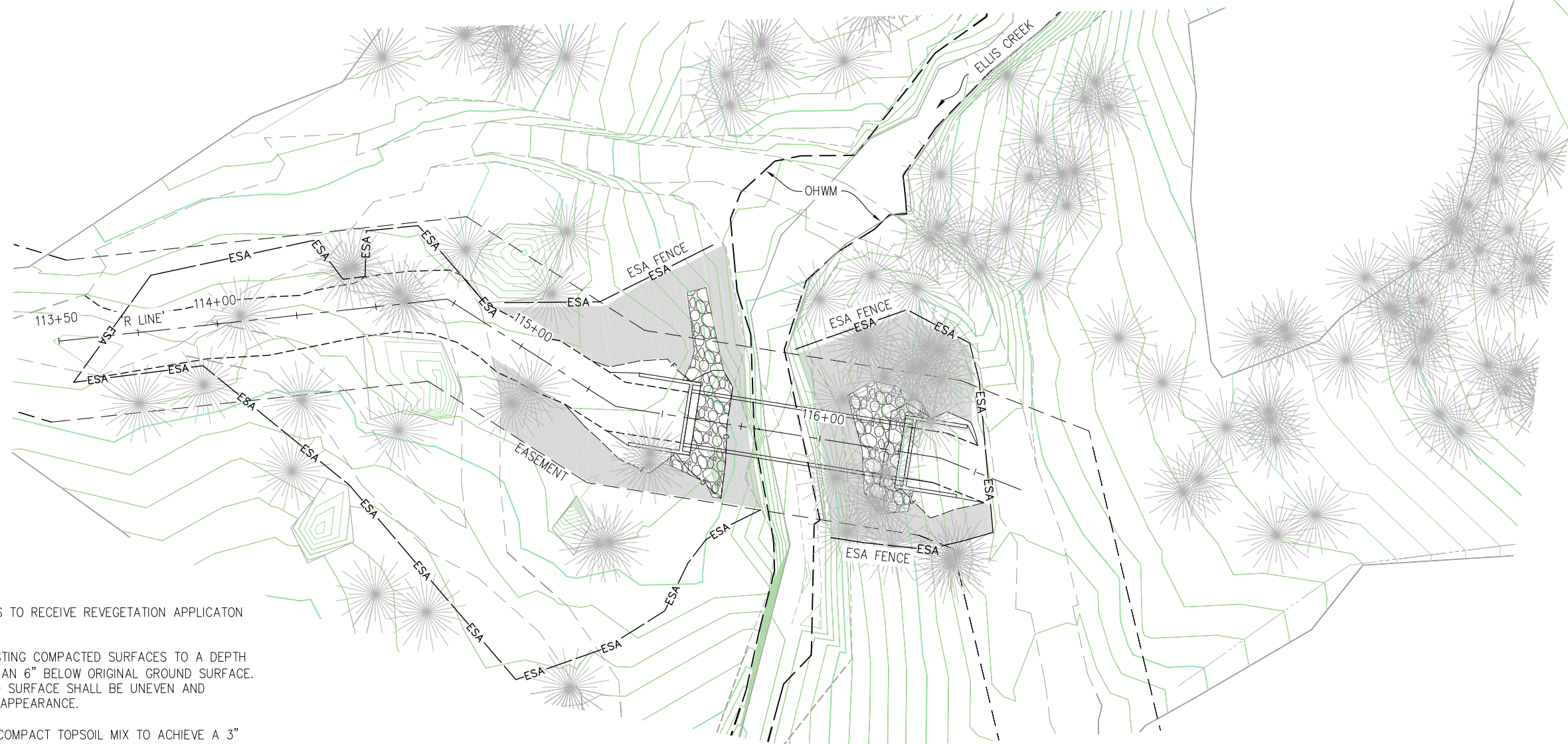
EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

RUBICON TRAIL at ELLIS CREEK
BRIDGE REPLACEMENT PROJECT

SHEET
C-1
6 OF 15
W.O. No. **77117**

CONSTRUCTION DETAILS
SCALE : NONE

ORIGINAL SCALE IS IN INCHES
 Drawing name: C:\Civil 3D\Projects\77117 Ellis Creek\CADD Files\Sheets\EC-1.dwg Layout Tab: EC-1 Mar 04 2013 3:26pm dharrington
 FOR REDUCED PLANS
 REVISION



LEGEND:



DISTURBED AREAS TO RECEIVE REVEGETATION APPLICATION AS FOLLOWS:

1. SCARIFY EXISTING COMPACTED SURFACES TO A DEPTH NOT LESS THAN 6" BELOW ORIGINAL GROUND SURFACE. THE FINISHED SURFACE SHALL BE UNEVEN AND NATURAL IN APPEARANCE.
2. PLACE AND COMPACT TOPSOIL MIX TO ACHIEVE A 3" THICK LAYER. THE TOPSOIL MIX SHALL CONSIST OF A MIXTURE OF SALVAGED TOPSOIL AND HUMUS (SEE SPECIFICATIONS). TOPSOIL MIX SHALL BE COMPACTED TO A MINIMUM OF 85% RELATIVE COMPACTION AND A MAXIMUM OF 90% RELATIVE COMPACTION.
3. APPLY SOIL AMENDMENT AT A RATE OF 800 LB/ACRE WITH A MECHANICAL SPREADER PER THE PROJECT SPECIFICATIONS.
4. APPLY SEED MIX AT A RATE OF 15 LB/ACRE BY ROTARY OR DROP SPREADER PER THE PROJECT SPECIFICATIONS.
5. APPLY A 1" THICK LAYER OF MULCH PER THE PROJECT SPECIFICATIONS.
6. APPLY TACKIFIER TO ALL AREAS THAT HAVE RECEIVED MULCH WITHIN 48 HOURS OF THE MULCH APPLICATION USING A HYDROSEEDER WITH A PADDLE WHEEL AGITATOR PER THE PROJECT SPECIFICATIONS.

PLAN - RUBICON TRAIL at ELLIS CREEK

NOTES:

SOIL AMENDMENT SHALL NOT BE APPLIED TO LOCATIONS WHERE RUNOFF CONTAINING SOIL AMENDMENT CAN ENTER ELLIS CREEK

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



PREPARED UNDER THE SUPERVISION OF :

 REGISTERED CIVIL ENGINEER
 DATE: 3/01/13

DESIGNED: DH
 DRAWN: RR
 CHECKED: DH
 DATE: 2/26/13
 ROAD NUMBER:

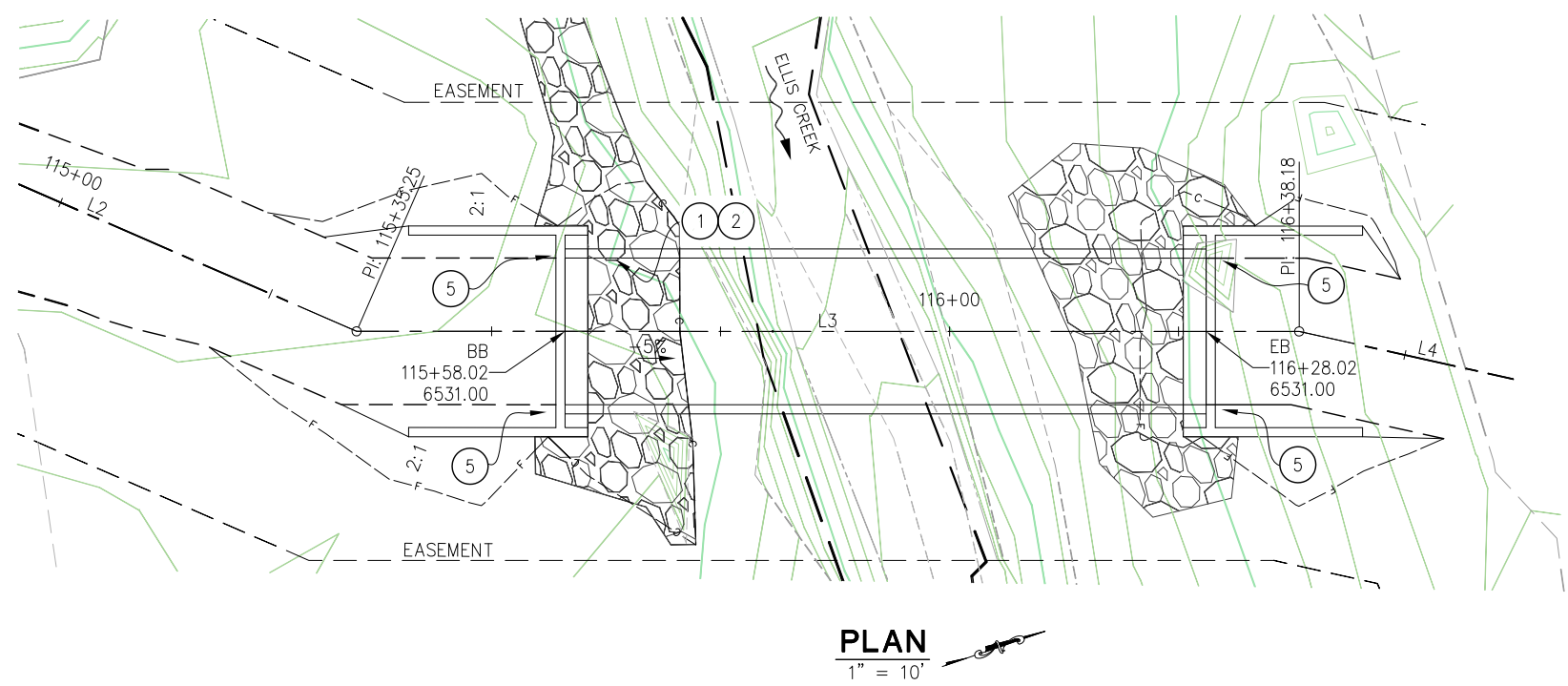
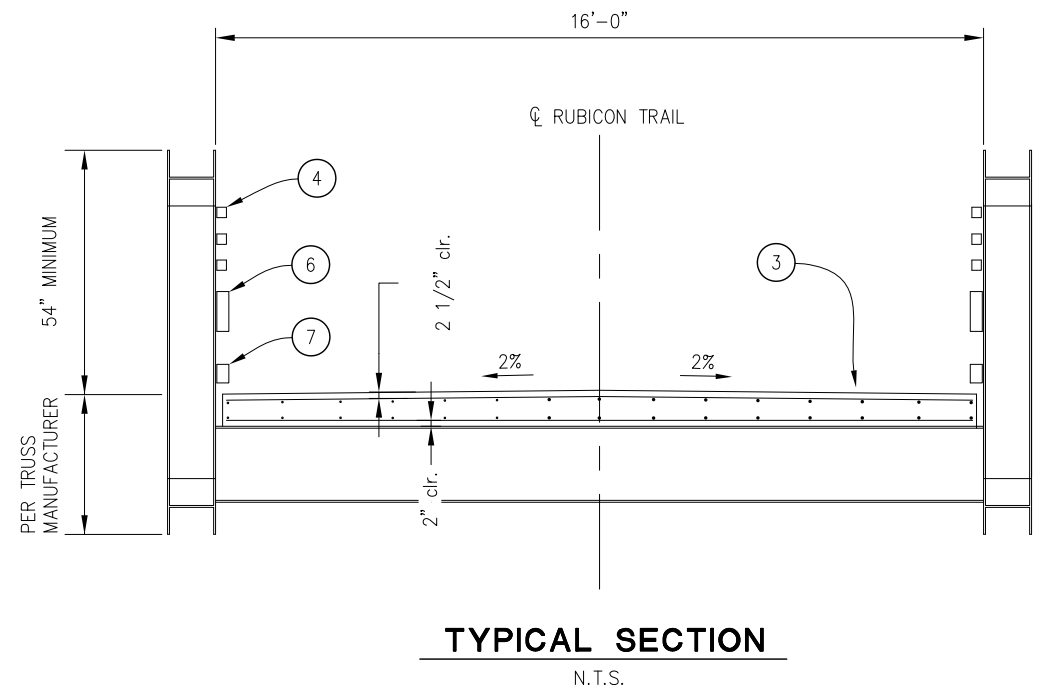
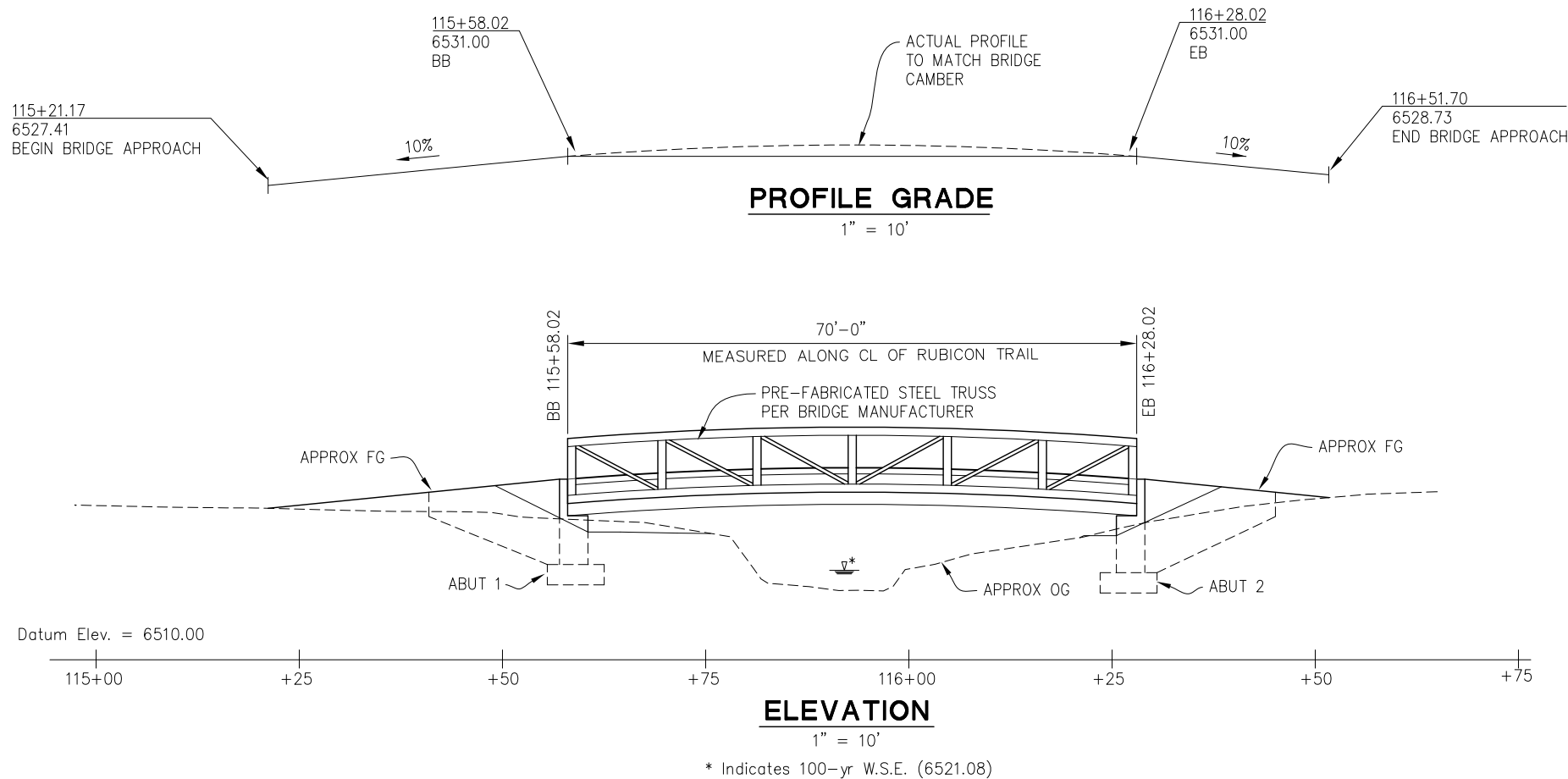


**EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION**

**RUBICON TRAIL at ELLIS CREEK
BRIDGE REPLACEMENT PROJECT**

SHEET
R-1
 7 OF 15
 W.O. No. **77117**

ORIGINAL SCALE IS IN INCHES
 Drawing name: C:\Civil 3D\Projects\77117 Ellis Creek\CADD Files\Sheets\S-Sheets.dwg
 Layout Tab: S-1
 Mar 04, 2013 - 3:34pm dharrington



NOTES

- ① PAINT "RUBICON TR"
- ② PAINT "BR. NO. 25-0130"
- ③ REIN. CONCRETE SLAB DECK (DESIGN BY BRIDGE MANUFACTURER). ALL BRIDGE DECK REINFORCING STEEL TO BE EPOXY COATED.
- ④ SAFETY RAIL
- ⑤ OBJECT MARKER (TYPE P), MOUNTED TO TRUSS
- ⑥ BUMPER RAIL
- ⑦ BOTTOM CURB RAIL

INDEX TO PLANS

SHEET No.	TITLE
S-1	GENERAL PLAN
S-2	INDEX TO PLANS
S-3	FOUNDATION PLAN
S-4	ABUTMENT LAYOUT
S-5	ABUTMENT DETAILS
S-6	ABUTMENT 1 WINGWALL DETAIL
S-7	ABUTMENT 2 WINGWALL DETAIL
S-8	ROCK SLOPE PROTECTION

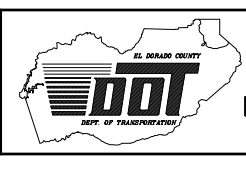
GENERAL PLAN

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF :
 [Signature]
 REGISTERED CIVIL ENGINEER
 DATE: 3/01/13

DESIGNED: DH
 DRAWN: RR
 CHECKED: DH
 DATE: 2/26/13
 ROAD NUMBER:



EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

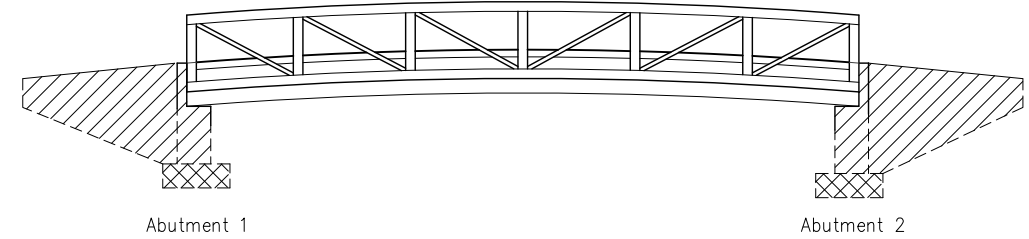
RUBICON TRAIL at ELLIS CREEK
BRIDGE REPLACEMENT PROJECT

SHEET
S-1
 8 OF 15
 W.O. No. **77117**

ORIGINAL SCALE IS IN INCHES
 Drawing name: C:\Civil 3D Projects\77117 Ellis Creek\CADD Files\Sheets\S-Sheets.dwg Layout Tab: S-2 Mar 12, 2013 - 1:45pm dharrington
 FOR REDUCED PLANS

GENERAL NOTES

DESIGN: AASHTO LRFD Bridge Design Specifications, 3rd Edition with interims through 2006 and the Caltrans Amendments v3.06.01., Except that the Abutments are designed using Bridge Design Specifications (LFD version, April 2000)
SEISMIC DESIGN: CALTRANS Seismic Design Criteria (SDC), Version 1.4, June 2006.
DEAD LOAD: No allowance for future wearing surface.
LIVE LOADING: HL-93 and permit design load.
SNOW LOAD: 380 psf
SEISMIC LOADING: SDC ARS Curve for Soil Profile Type C
 Site Specific Calculated Spectra Curve
 West Tahoe - Dollar Point Fault, Magnitude = 7.0
REINFORCED CONCRETE: $F_y = 60$ ksi
 $f'_c = 3.6$ ksi
 $n = 8$



CONCRETE TYPE AND LIMITS

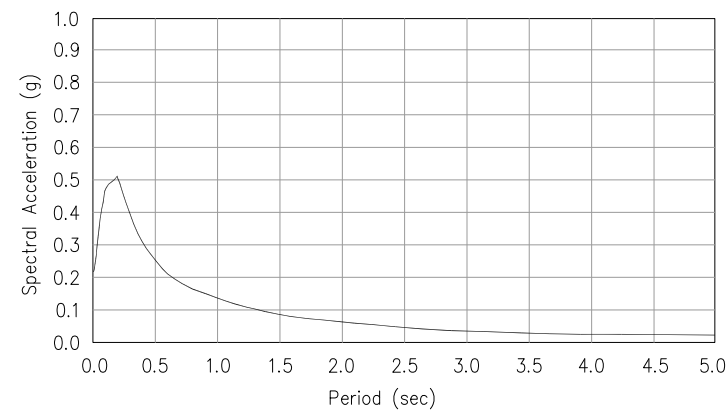
NO SCALE

- Structural Concrete, Bridge
- Structural Concrete, Bridge Footing

BRIDGE SUPPORT REACTIONS

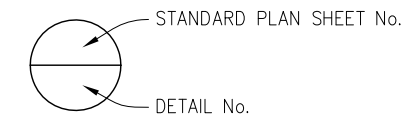
Loading Type	Maximum Design Reactions (kips)	
	Abut 1	Abut 2
Vertical Dead Load	112	112
Vertical Additional Dead Load	213 (Snow)	213 (Snow)
Vertical Live Loads	86 (HL-93)	86 (HL-93)
	133 (P-15)	133 (P-15)
Seismic Loads	49 (Long.)	0 (Long.)
	58 (Trans.)	58 (Trans.)
Horizontal Wind Load	32	32

ACCELERATION RESPONSE SPECTRA CURVE



STANDARD PLANS DATED MAY 2006

- A10A ACRONYMS AND ABBREVIATIONS (A-L)
- A10B ACRONYMS AND ABBREVIATIONS (M-Z)
- A10C SYMBOLS (Sheet 1 of 2)
- A10D SYMBOLS (Sheet 2 of 2)
- A62C LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL - BRIDGE
- B0-3 BRIDGE DETAILS



INDEX TO PLANS

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF :

 REGISTERED CIVIL ENGINEER
 DATE: 3/01/13

DESIGNED: DH
 DRAWN: RR
 CHECKED: DH
 DATE: 2/26/13
 ROAD NUMBER:

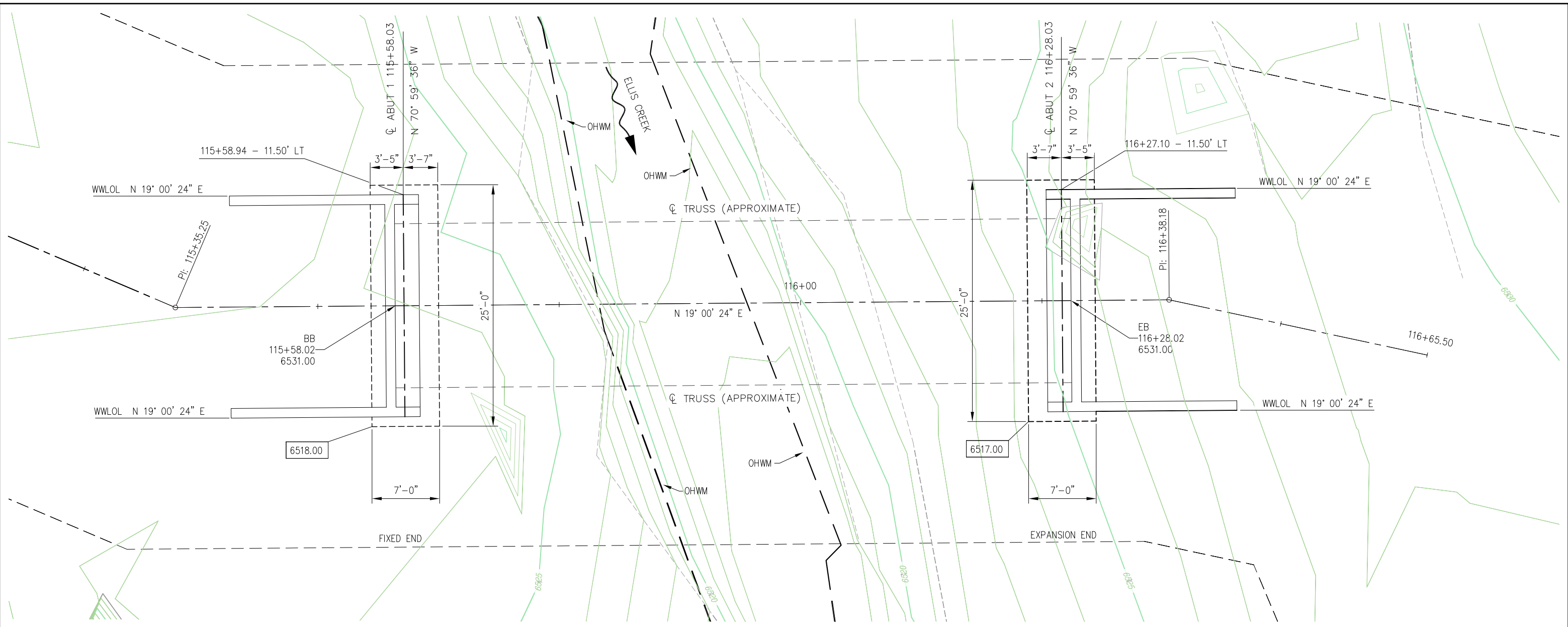


EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

RUBICON TRAIL at ELLIS CREEK
BRIDGE REPLACEMENT PROJECT

SHEET
S-2
 9 OF 15
 W.O. No. **77117**

ORIGINAL SCALE IS IN INCHES
 Drawing name: C:\Civil 3D\Projects\77117 Ellis Creek\CADD Files\Sheets\S-Sheets.dwg Layout Tab: S-3 Mar 12, 2013 1:45pm dharrington
 FOR REDUCED PLANS
 2
 1
 0



FOUNDATION PLAN

1" = 5'

LEGEND:

- BOTTOM OF FOOTING ELEVATION
- INDICATES DIRECTION OF WATER FLOW
- OHWM ORDINARY HIGH WATER MARK

HYDRAULIC SUMMARY

Drainage Area = 1.31 sq. mi.

	Design Flood	Base Flood
Frequency (years)	50	100
Discharge (cfs)	317	450
Water Surface Elevation (ft)*	6520.28	6521.08

* Calculated elevation of water surface measured at the upstream face of the bridge.
 NOTE: 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.

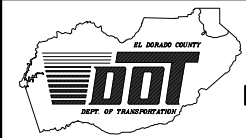
REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER
 DATE: 3/01/13

DESIGNED: DH
 DRAWN: RR
 CHECKED: DH
 DATE: 2/26/13
 ROAD NUMBER:

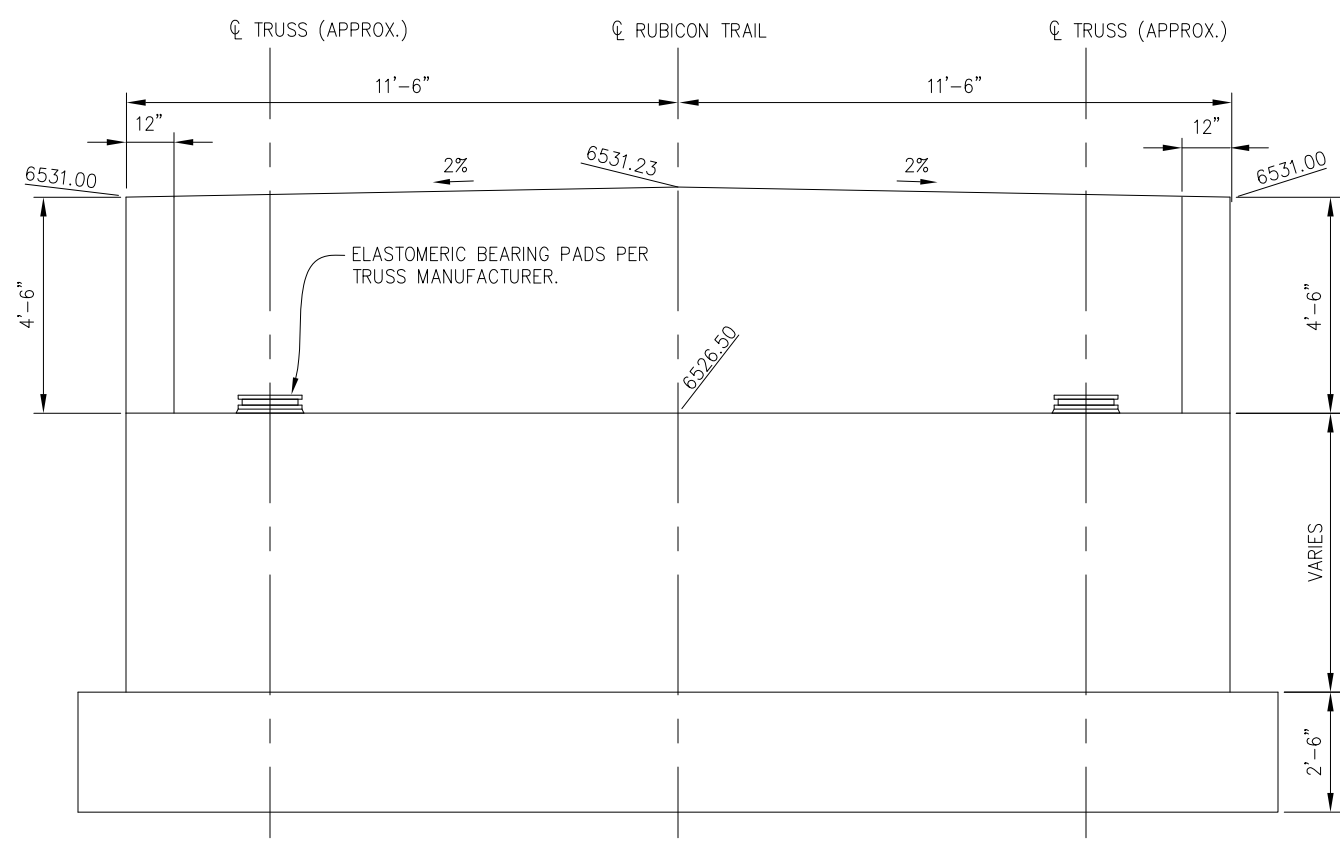


EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

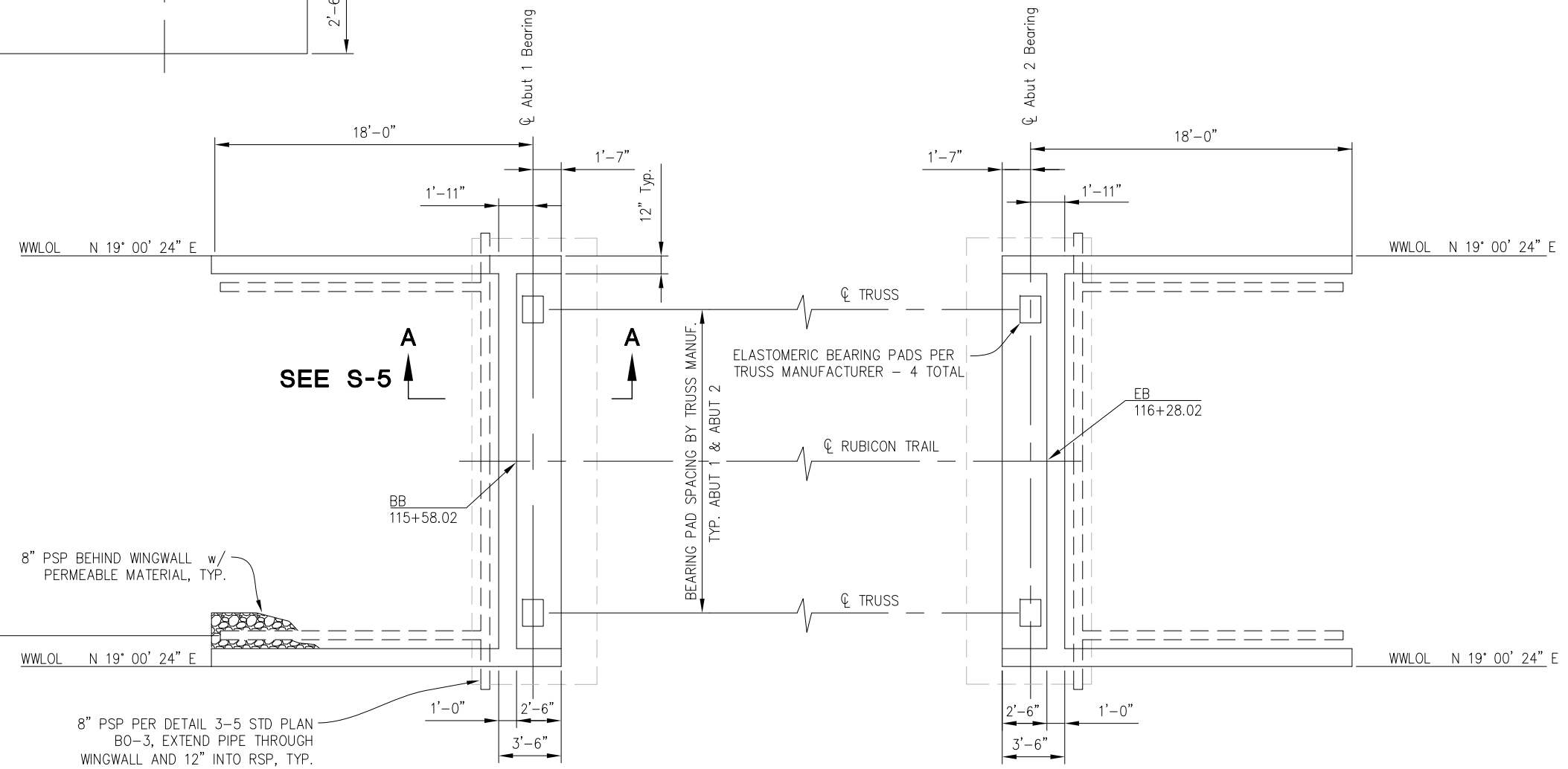
RUBICON TRAIL at ELLIS CREEK
BRIDGE REPLACEMENT PROJECT

FOUNDATION PLAN
 SHEET
S-3
 10 OF 15
 W.O. No. **77117**

ORIGINAL SCALE IS IN INCHES
 Drawing name: C:\Civil 3D Projects\77117 Ellis Creek\CADD Files\Sheets\S-Sheets.dwg Layout Tab: S-4 Mar 04, 2013 - 3:37pm dharington
 FOR REDUCED PLANS
 REVISION



ELEVATION
1/2" = 1'-0"



PLAN
1/4" = 1'-0"

NOTE: SEE SHEET S-6 FOR ROCK SLOPE PROTECTION PLACEMENT.

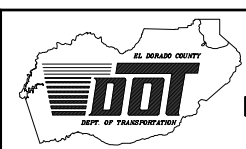
ABUTMENT LAYOUT

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF :
 [Signature]
 REGISTERED CIVIL ENGINEER
 3/01/13
 DATE:

DESIGNED: DH
 DRAWN: RR
 CHECKED: DH
 DATE: 2/26/13
 ROAD NUMBER:

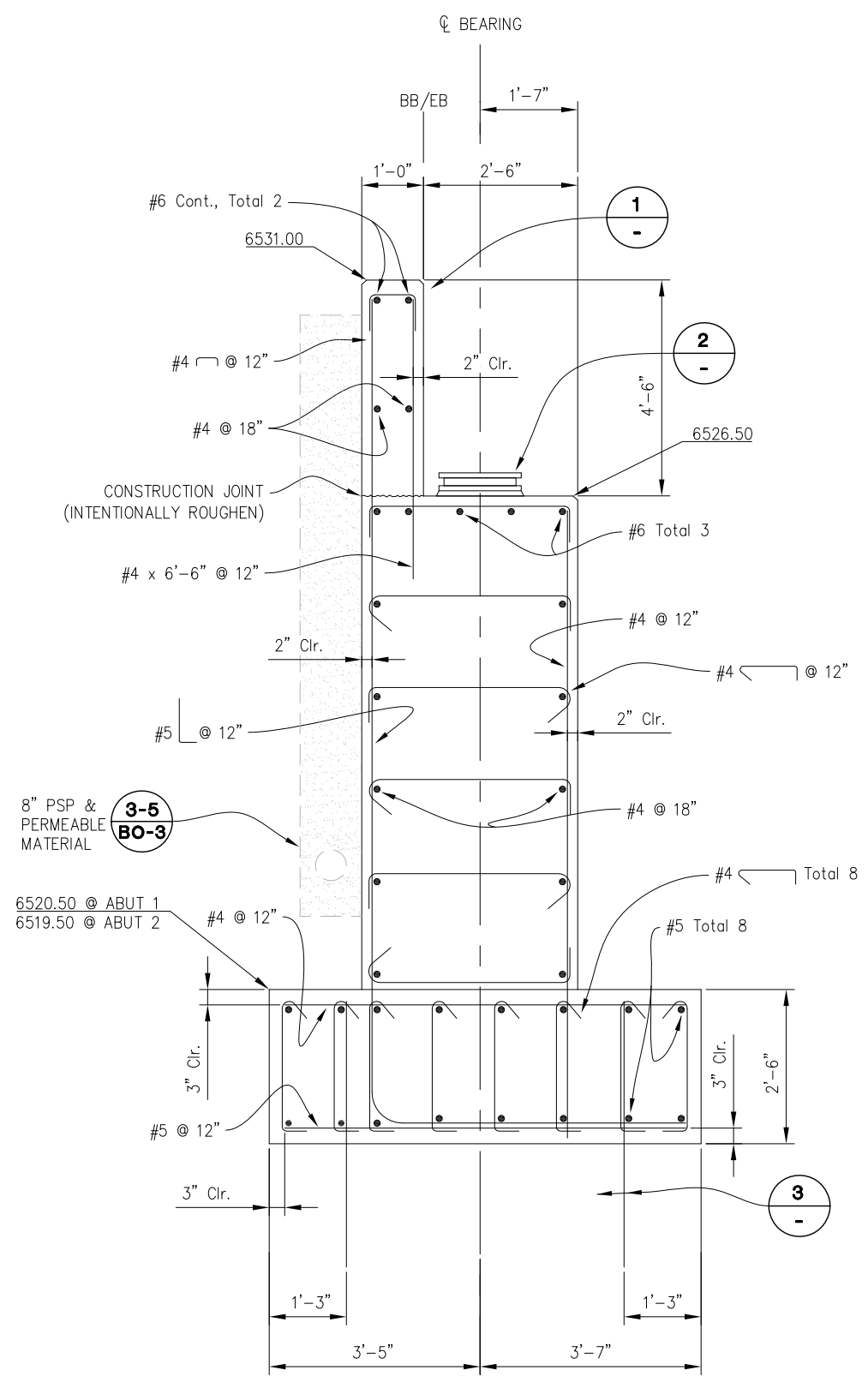


EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

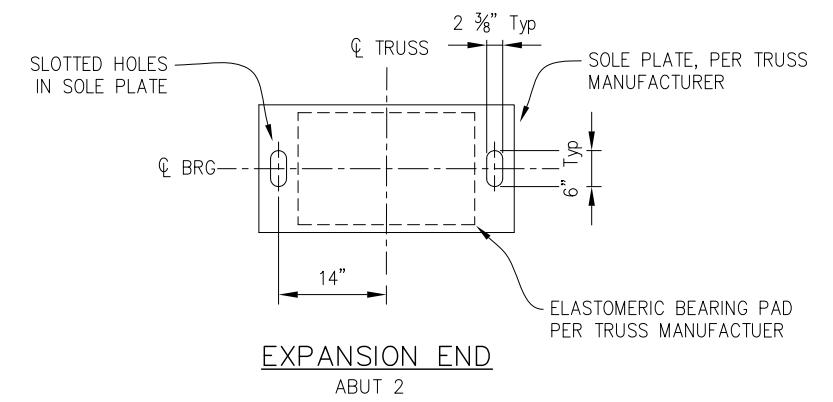
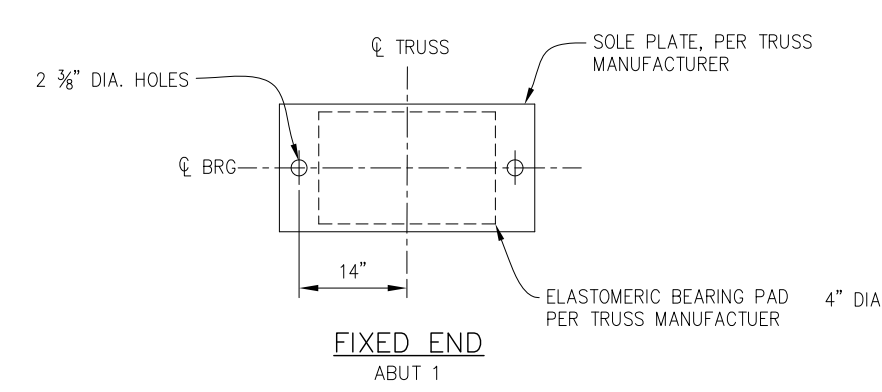
RUBICON TRAIL at ELLIS CREEK
BRIDGE REPLACEMENT PROJECT

SHEET
S-4
 11 OF 15
 W.O. No. **77117**

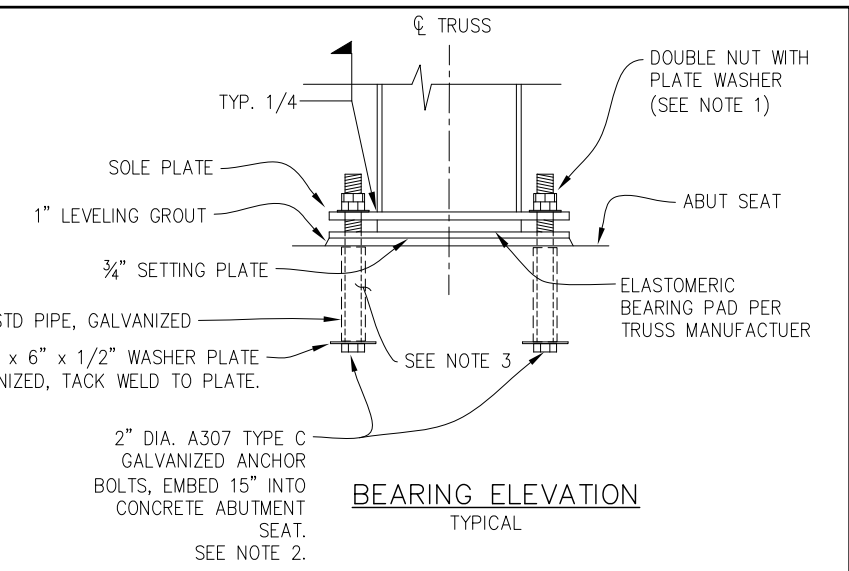
ORIGINAL SCALE IS IN INCHES
 Drawing name: C:\Civil 3D Projects\77117 Ellis Creek\CADD Files\Sheets\S-Sheets.dwg Layout Tab: S-5 Mar 04, 2013 - 3:39pm dharington
 FOR REDUCED PLANS



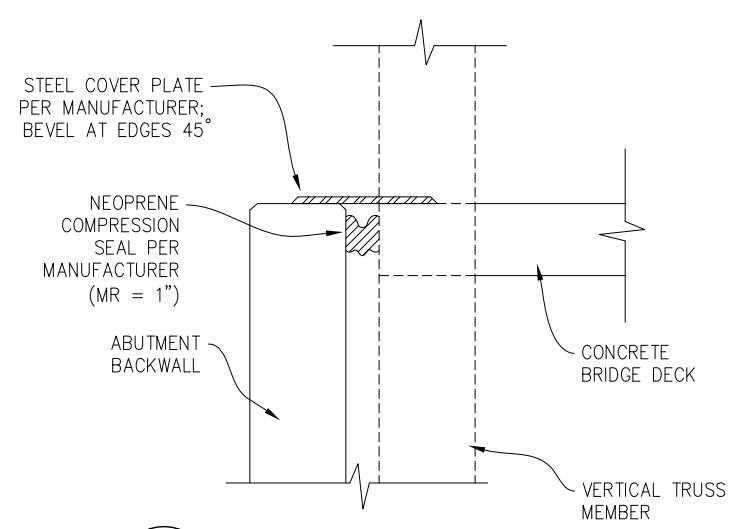
SECTION A-A
 $3/4" = 1'-0"$
 ABUTMENT 1 SHOWN; ABUTMENT 2 SIMILIAR



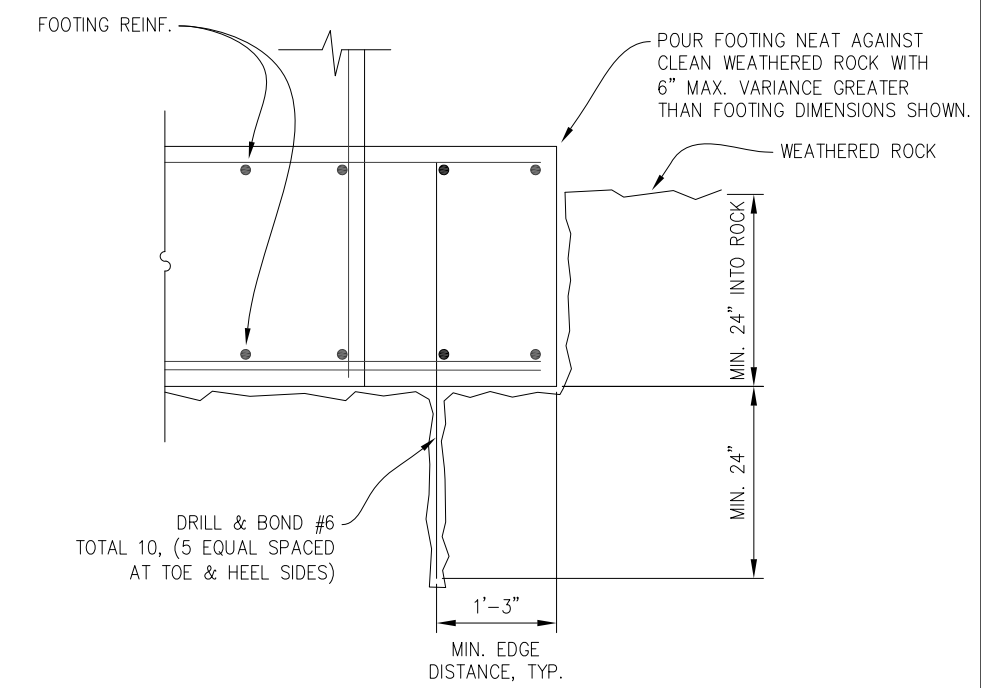
2 BEARING PAD ASSEMBLY
 $1" = 1'-0"$



- NOTES**
- EXPANSION END: TIGHTEN BOTTOM NUT, LOOSEN 1/4 TURN AND TIGHTEN TOP NUT TO BOTTOM NUT TO ALLOW MOVEMENT. FIXED END: BOTH NUTS SHALL BE SNUG TIGHT.
 - SLIGHTLY MOVE ANCHOR BOLT LATERALLY AFTER ABUTMENT STEM CONCRETE IS PLACED TO ALLOW SOME PLAY FOR THE FUTURE TRUSS ERECTION.
 - FILL PIPE WITH GROUT CONTAINING AN APPROVED NON-SHRINK ADDITIVE AFTER ERECTING TRUSS AND SOLE PLATE.



1 DETAIL AT JOINTS
 $1" = 1'-0"$



3 FOOTING ANCHOR
 $1" = 1'-0"$

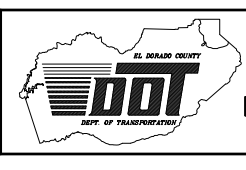
ABUTMENT DETAILS

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:
[Signature]
 REGISTERED CIVIL ENGINEER
 DATE: 3/01/13

DESIGNED: DH
 DRAWN: RR
 CHECKED: DH
 DATE: 2/26/13
 ROAD NUMBER:

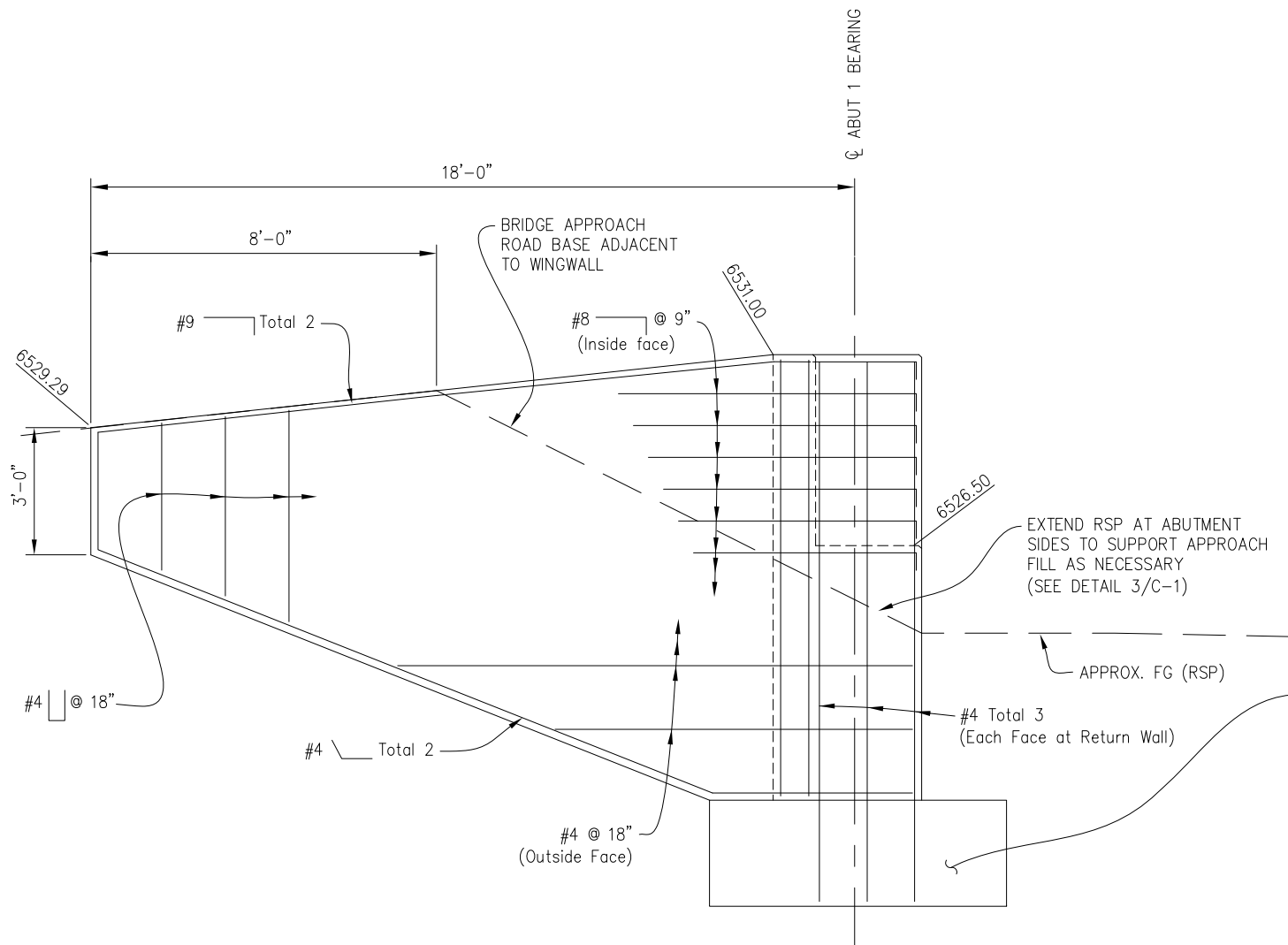


EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

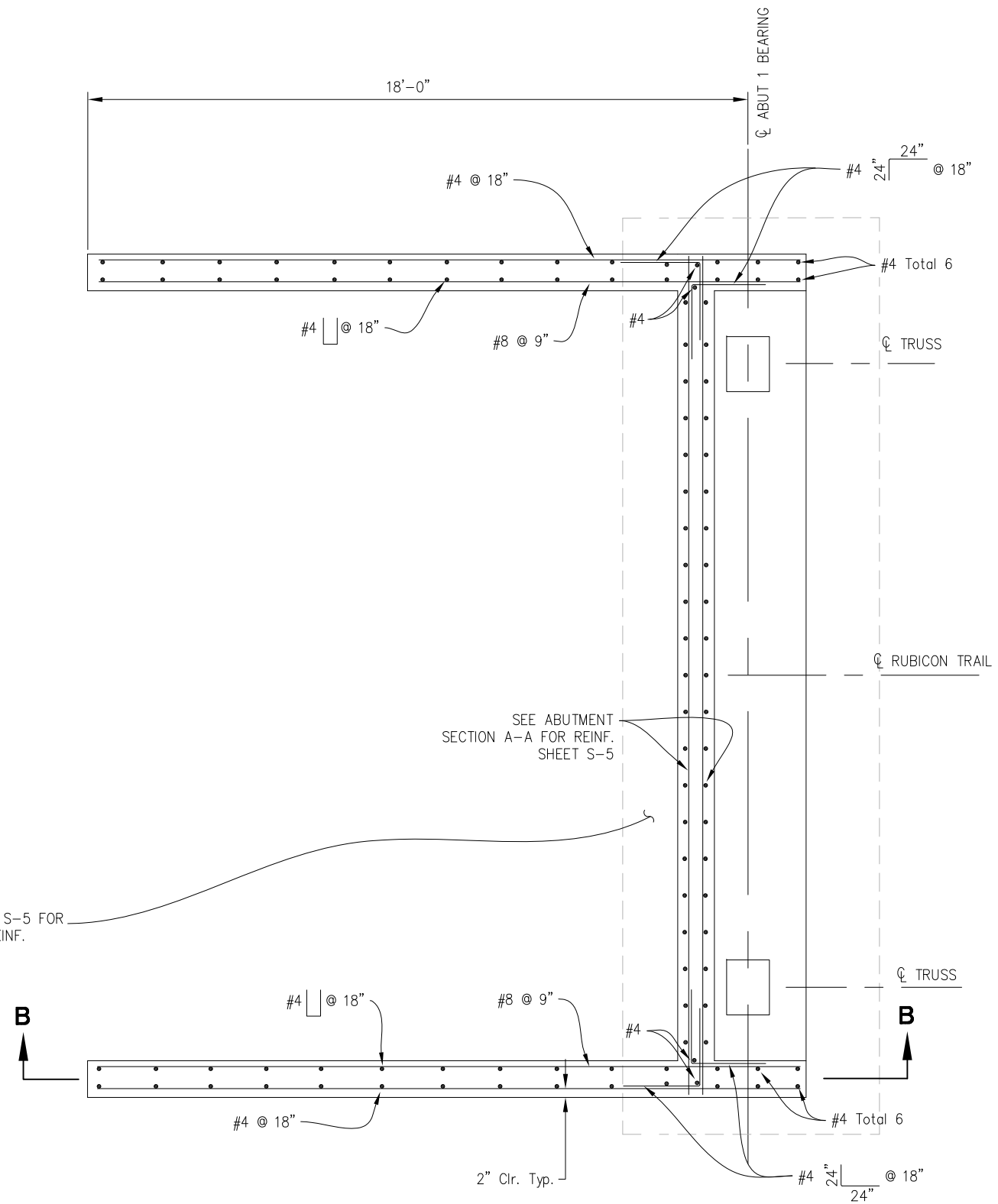
RUBICON TRAIL at ELLIS CREEK
BRIDGE REPLACEMENT PROJECT

SHEET
S-5
 12 OF 15
 W.O. No. **77117**

ORIGINAL SCALE IS IN INCHES
 Drawing name: C:\Civil 3D Projects\77117 Ellis Creek\CADD Files\Sheets\S-Sheets.dwg Layout Tab: S-6 Mar 05,2013 - 10:30am dharrington
 FOR REDUCED PLANS



B-B ABUTMENT 1
SCALE: 1/2"=1'-0"



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

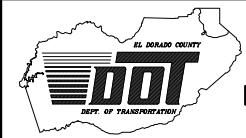
ABUTMENT 1 WINGWALL DETAIL



PREPARED UNDER THE SUPERVISION OF :

 REGISTERED CIVIL ENGINEER
 DATE: 3/01/13

DESIGNED: DH
 DRAWN: RR
 CHECKED: DH
 DATE: 2/26/13
 ROAD NUMBER:

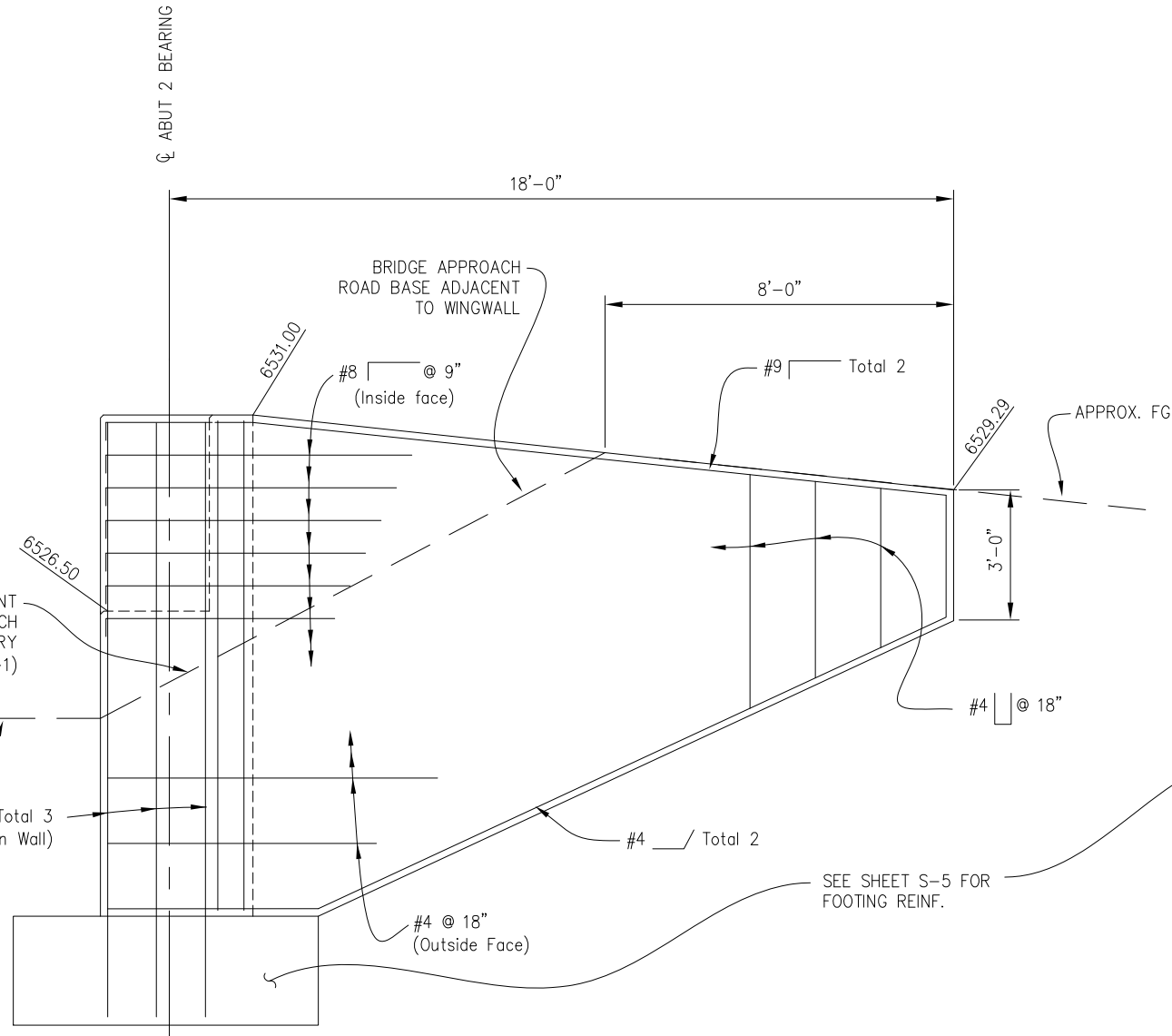


EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

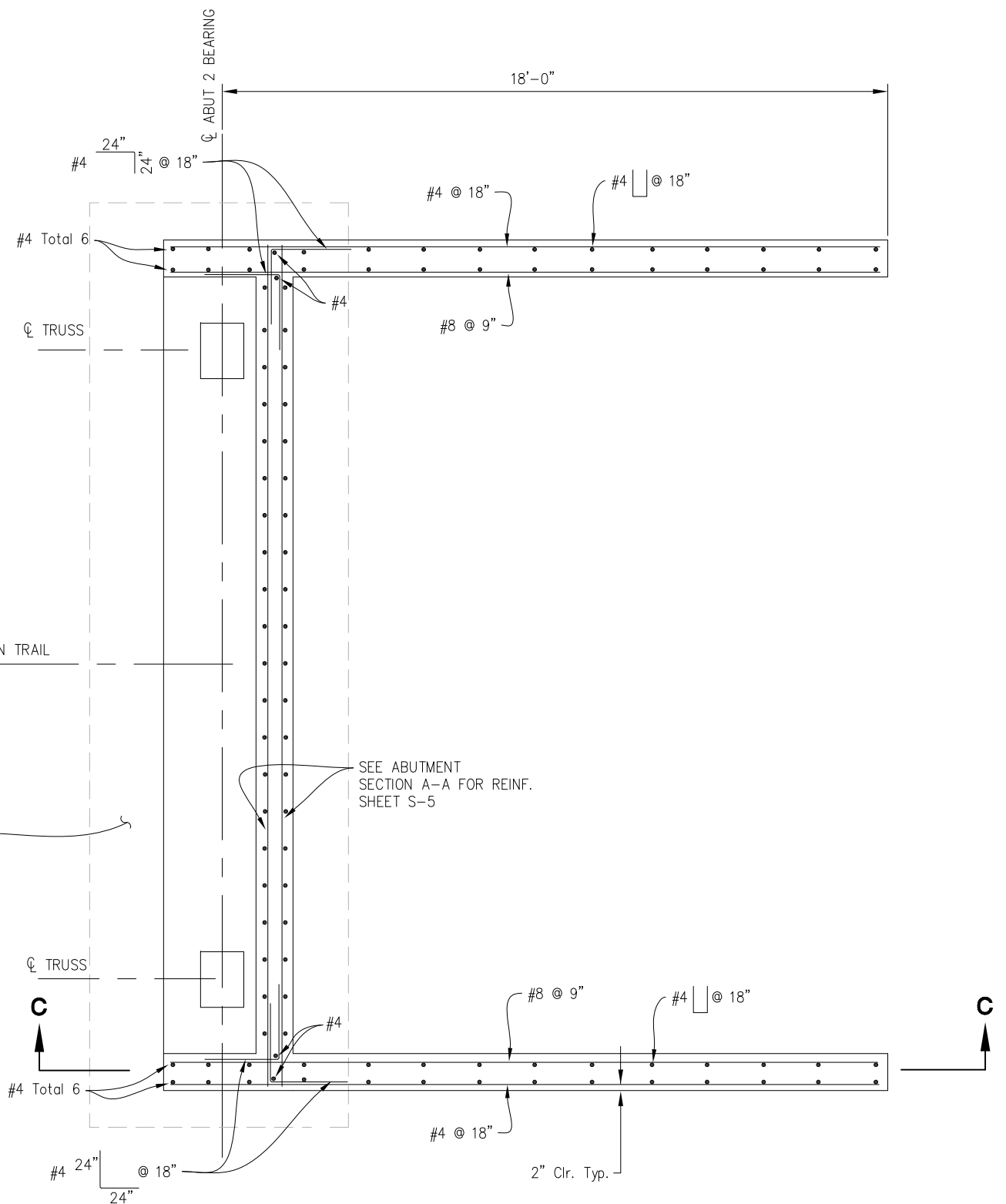
RUBICON TRAIL at ELLIS CREEK
BRIDGE REPLACEMENT PROJECT

SHEET
S-6
 13 OF 15
 W.O. No. **77117**

ORIGINAL SCALE IS IN INCHES
 Drawing name: C:\Civil 3D\Projects\77117 Ellis Creek\CADD Files\Sheets\S-Sheets.dwg Layout Tab: S-7 Mar 05,2013 - 10:31am dharrington



C-C ABUTMENT 2
SCALE: 1/2"=1'-0"



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

ABUTMENT 2 WINGWALL DETAIL

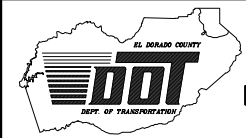
REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF :

 REGISTERED CIVIL ENGINEER
 DATE: 3/01/13

DESIGNED: DH
 DRAWN: RR
 CHECKED: DH
 DATE: 2/26/13
 ROAD NUMBER:

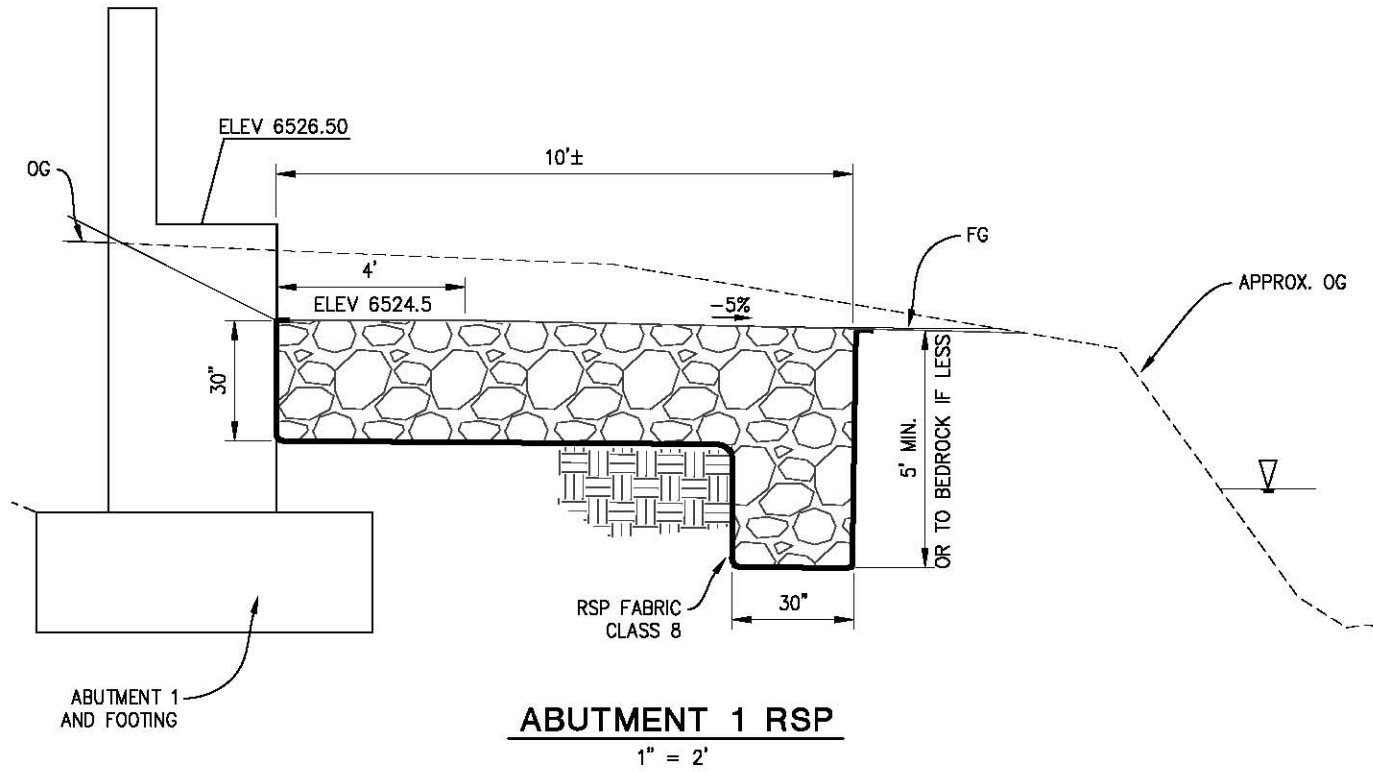


EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

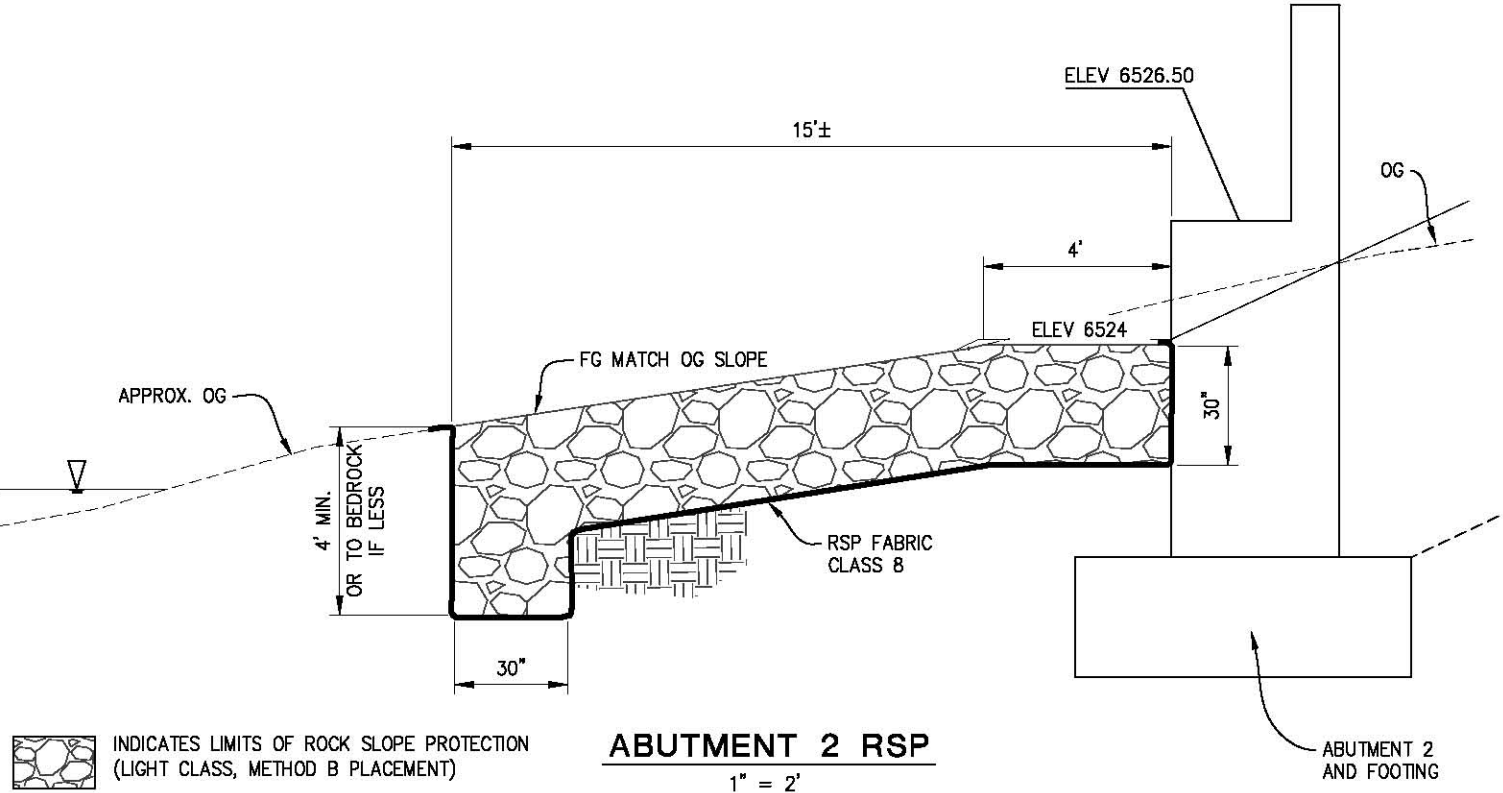
RUBICON TRAIL at ELLIS CREEK
BRIDGE REPLACEMENT PROJECT

SHEET
S-7
 14 OF 15
 W.O. No. **77117**



ORIGINAL SCALE IS IN INCHES
 Drawing name: C:\Civil 3D\Projects\77117 Ellis Creek\CADD Files\Sheets\S-Sheets.dwg Layout Tab: S-8 Mar 12, 2013 1:43pm dharrington

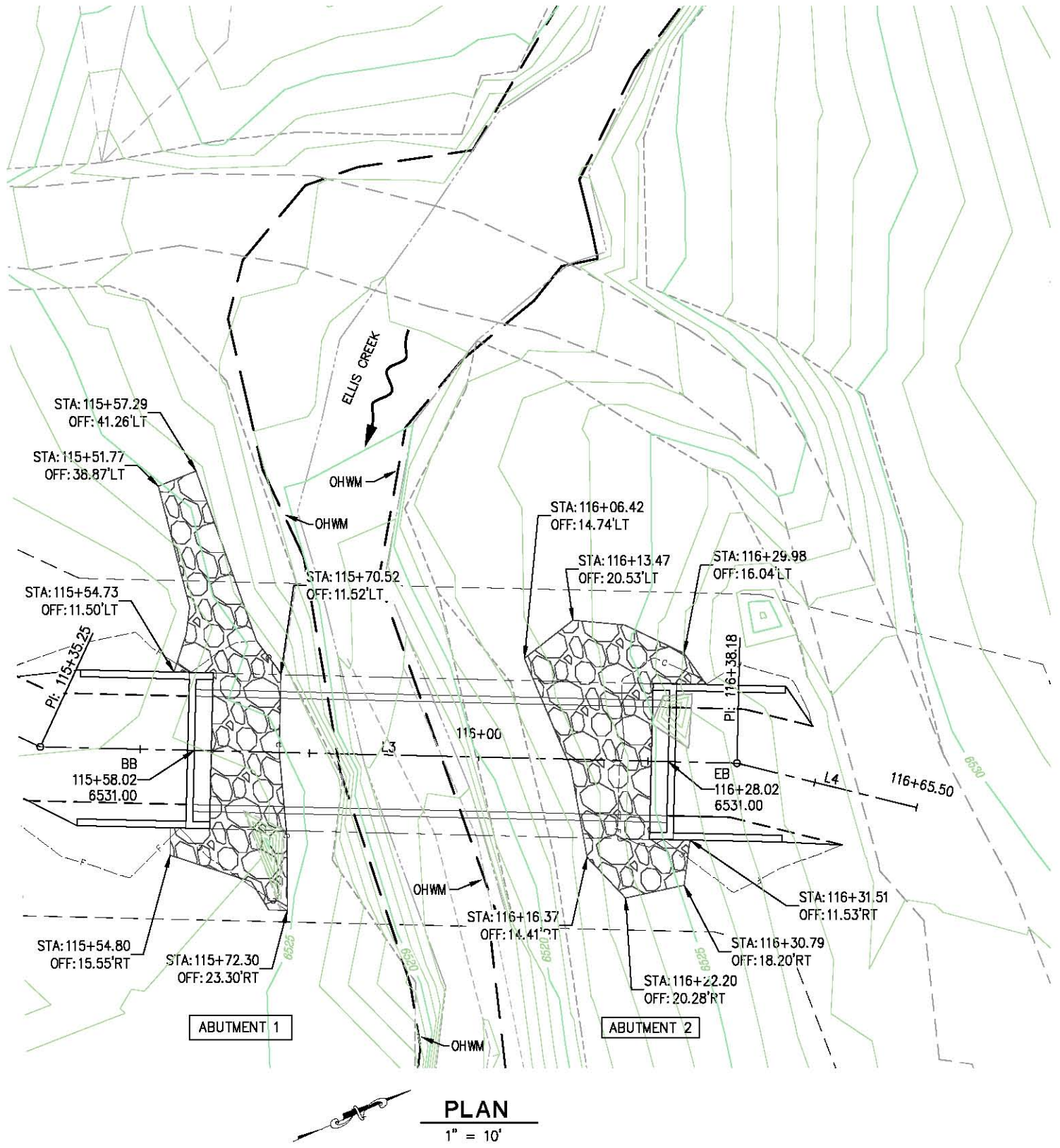


ABUTMENT 1 RSP
 1" = 2'



ABUTMENT 2 RSP
 1" = 2'

-  INDICATES LIMITS OF ROCK SLOPE PROTECTION (LIGHT CLASS, METHOD B PLACEMENT)
-  INDICATES 100 YEAR DESIGN STORM WATER SURFACE
- OHWM - ORDINARY HIGH WATER MARK

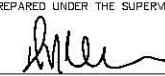


PLAN
 1" = 10'

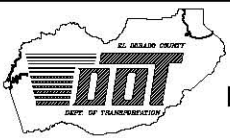
ROCK SLOPE PROTECTION

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER
 DATE: 3/01/13

DESIGNED: DH
 DRAWN: RR
 CHECKED: DH
 DATE: 2/26/13
 ROAD NUMBER:



EL DORADO COUNTY
 DEPARTMENT OF TRANSPORTATION

RUBICON TRAIL at ELLIS CREEK
 BRIDGE REPLACEMENT PROJECT

SHEET
S-8
 15 OF 15
 W.O. No. 77117