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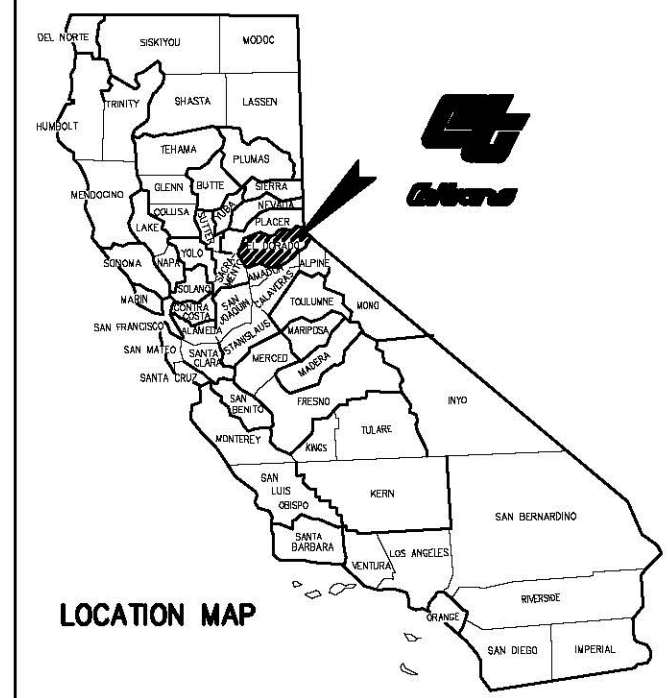
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STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**PROJECT PLANS FOR CONSTRUCTION ON  
STATE HIGHWAY 49**

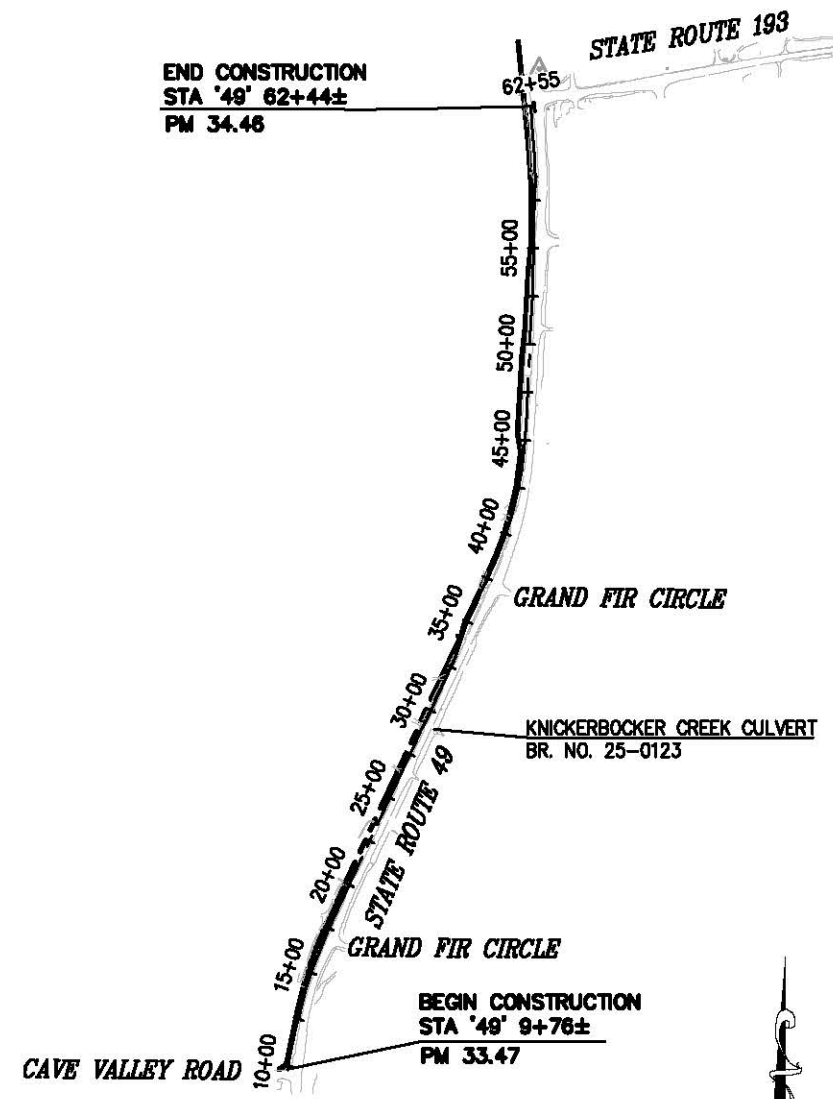
IN THE COUNTY OF EL DORADO, DISTRICT 4, COOL, CA  
CAVE VALLEY ROAD TO SR49/SR193 INTERSECTION

To be supplemented with Standard Plans and Specifications 2010, including the Revised Standard Specifications 2010, of the California Department of Transportation, unless otherwise noted and the El Dorado County Design and Improvement Standards Manual, as noted.

DIST	COUNTY	ROUTE	POST MILES	TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	ED	SR49	34.4 to 35.4	1	1	35

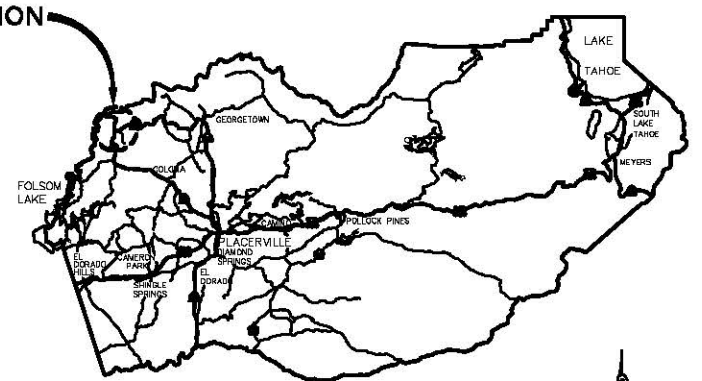


The state of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet



**SITE PLAN**  
SCALE: 1" = 500'

SITE LOCATION



**VICINITY MAP**  
COUNTY OF EL DORADO

*Paul J. Hon*  
Project ENGINEER  
Registered Civil Engineer



**05/08/13**

Plans Approved Date	FED. PROJECT	SRTSL 5925(070)
PW# 11-30628	CU	EA 03-2E4801

Approved as to impact on State facilities and conformance with applicable State Standards and Practices and that technical oversight was performed as described in the California Department of Transportation A&E Consultant Services Manual.

PROJECT ENGINEER SIGNATURE  
DESIGN OVERSIGHT APPROVAL SIGNATURE  
REGISTRATION NO.  
DATE

ADOPTED AND APPROVED BY:	
RON V. BRIGGS CHAIR, EL DORADO COUNTY BOARD OF SUPERVISORS	DATE
KIMBERLY A. KERR INTERIM DIRECTOR, EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION	DATE
MATTHEW D. SMELTZER P.E. NO. C56B32 DEPUTY DIRECTOR OF ENGINEERING, EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION	DATE

**COUNTY OF EL DORADO  
DEPARTMENT OF TRANSPORTATION**

2850 FAIRLANE COURT  
PLACERVILLE, CA 95667  
(916) 621-5900



REVISIONS		
MARK	DATE	BY

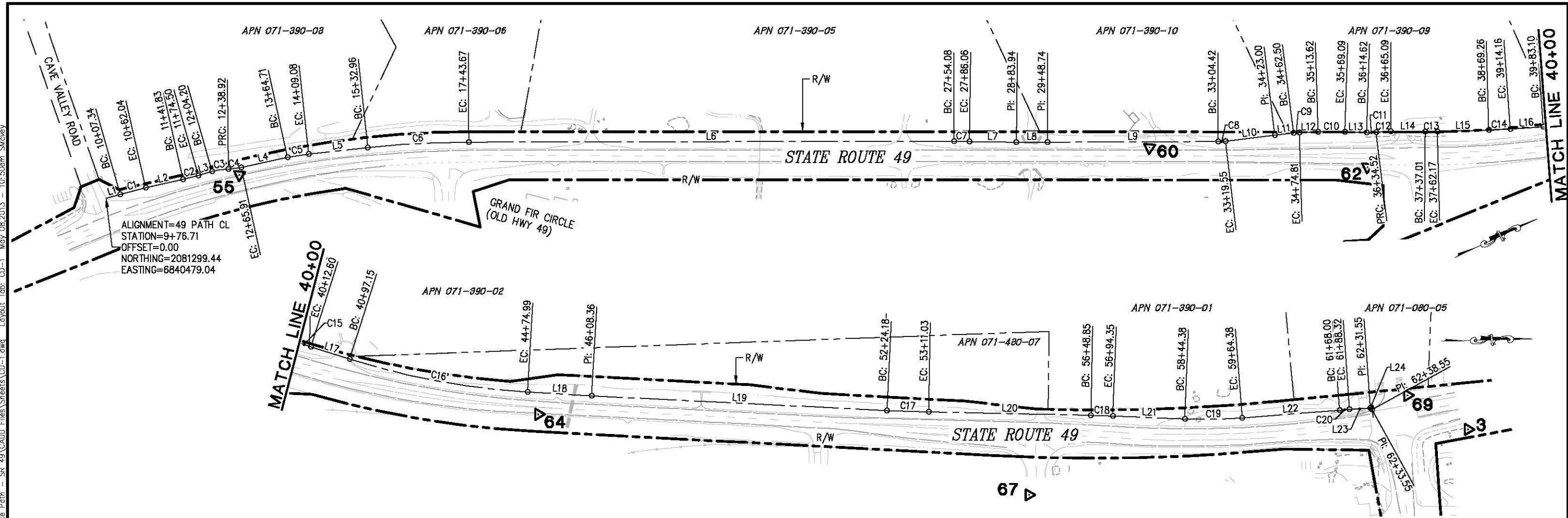
BOARD OF SUPERVISORS	
RON MIKULACO	I
RAYMOND J. NUTTING	II
BRIAN VEERKAMP	III
RON V. BRIGGS	IV
NORMA SANTIAGO	V

**NORTHSIDE SCHOOL CLASS 1  
BIKE PATH - PHASE 2 (SR49)**

**TITLE SHEET**

SHEET **1** OF **35**

ORIGINAL SCALE IS IN INCHES  
Drawing name: C:\Civil 3D\Projects\72306 Northside School Class 1 Bike Path - SR 49\CADD Files\Sheets\CD-1.dwg Layout Tab: CD-1 May 08, 2013 10:50am Skovay



49 PATH CL				
NUMBER	LENGTH	RADIUS	LINE / CHORD DIRECTION & LENGTH	DELTA
L1	30.63		N 9° 06' 10" E	
C1	54.70	1000.00	N 10° 40' 11" E - 54.69	3° 08' 02"
L2	79.80		N 12° 14' 13" E	
C2	32.67	600.00	N 10° 40' 37" E - 32.66	3° 07' 11"
L3	29.70		N 9° 07' 02" E	
C3	34.71	130.00	N 16° 46' 00" E - 34.61	15° 17' 57"
C4	27.00	130.00	N 18° 28' 00" E - 26.95	11° 53' 56"
L4	98.80		N 12° 31' 02" E	
C5	44.37	400.00	N 15° 41' 43" E - 44.35	6° 21' 21"
L5	123.88		N 18° 52' 23" E	
C6	210.71	2000.00	N 21° 53' 28" E - 210.61	6° 02' 11"
L6	1010.41		N 24° 54' 34" E	
C7	31.97	2000.00	N 25° 22' 03" E - 31.97	0° 54' 58"
L7	97.88		N 25° 49' 31" E	
L8	64.80		N 25° 02' 05" E	

49 PATH CL				
NUMBER	LENGTH	RADIUS	LINE / CHORD DIRECTION & LENGTH	DELTA
L9	355.68		N 24° 50' 18" E	
C8	15.13	130.00	N 21° 30' 11" E - 15.13	6° 40' 13"
L10	103.45		N 18° 10' 04" E	
L11	39.50		N 17° 53' 49" E	
C9	12.31	130.00	N 20° 36' 36" E - 12.31	5° 25' 34"
L12	38.81		N 23° 19' 23" E	
C10	55.47	900.00	N 25° 05' 19" E - 55.46	3° 31' 52"
L13	45.53		N 26° 51' 14" E	
C11	19.91	130.00	N 22° 28' 03" E - 19.89	8° 46' 24"
C12	30.57	250.90	N 21° 34' 15" E - 30.55	6° 58' 49"
L14	71.92		N 25° 24' 00" E	
C13	25.16	750.00	N 24° 26' 20" E - 25.16	1° 55' 19"
L15	107.10		N 23° 28' 41" E	
C14	44.90	1000.00	N 22° 11' 30" E - 44.90	2° 34' 21"
L16	68.94		N 20° 54' 20" E	

49 PATH CL				
NUMBER	LENGTH	RADIUS	LINE / CHORD DIRECTION & LENGTH	DELTA
C15	29.49	500.00	N 19° 12' 56" E - 29.49	3° 22' 47"
L17	84.55		N 17° 31' 32" E	
C16	377.84	1534.45	N 10° 28' 18" E - 376.88	14° 06' 30"
L18	133.37		N 3° 25' 03" E	
L19	615.82		N 2° 50' 14" E	
C17	86.84	3000.00	N 2° 00' 29" E - 86.84	1° 39' 31"
L20	337.82		N 1° 10' 43" E	
C18	45.51	2200.00	N 1° 46' 16" E - 45.51	1° 11' 07"
L21	150.03		N 2° 21' 50" E	
C19	120.00	1000.00	N 1° 04' 26" W - 119.92	6° 52' 31"
L22	203.63		N 4° 30' 41" W	
C20	20.32	2000.00	N 4° 13' 13" W - 20.32	0° 34' 56"
L23	43.23		N 3° 55' 46" W	
L24	2.00		N 28° 50' 11" W	

CONTROL TABLE				
CONTROL NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
3	2086512.20	6841790.31	1529.50	CP HPGN 03EK
55	2081571.93	6840552.13	1500.57	AERIAL CONTROL POINT
60	2083313.39	6841301.64	1464.18	AERIAL CONTROL POINT
62	2083707.78	6841530.20	1469.45	AERIAL CONTROL POINT
64	2084576.52	6841758.99	1478.64	AERIAL CONTROL POINT
67	2085598.23	6841926.44	1492.86	AERIAL CONTROL POINT
69	2086386.31	6841719.57	1522.74	AERIAL CONTROL POINT

**XXΔ** - DENOTES TARGET LOCATION AND ELEVATION

HORIZONTAL DATUM  
BEARINGS, DISTANCES, STATIONING AND COORDINATES SHOWN ARE ON THE CALIFORNIA STATE PLANE COORDINATE SYSTEM, NAD 83 ZONE 2, U.S. FEET 2004.69 EPOCH. DISTANCES SHOWN ARE GRID DISTANCES. DIVIDE DISTANCES SHOWN BY 0.99985645 TO OBTAIN GROUND DISTANCES.

VERTICAL DATUM  
ELEVATIONS SHOWN HEREON ARE REFERENCED TO NAVD 88 FROM GPS OBSERVATIONS  
CONTROL POINTS SHOWN HEREON ARE TBM'S

**SURVEY CONTROL DIAGRAM**  
SCALE: 1"=100'

REVISION	NUMBER	DATE	DESCRIPTION	BY

PROFESSIONAL LAND SURVEYOR  
Loren A. Massaro  
No. LS 8117  
License Expires 12-31-14  
STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF:  
*Loren A. Massaro*  
PROFESSIONAL LAND SURVEYOR  
DATE: 05/08/13

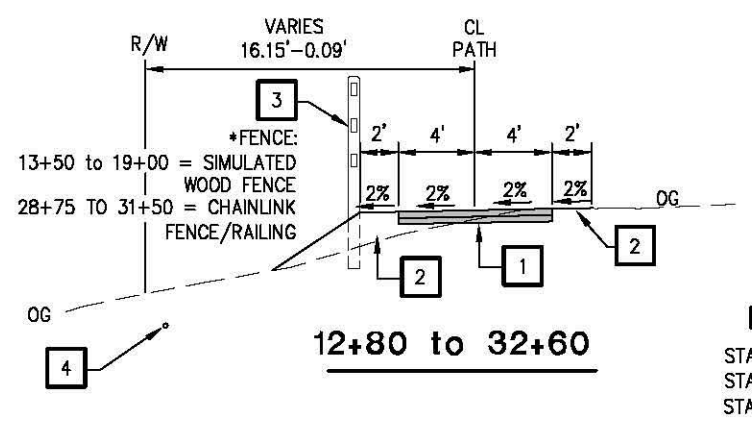
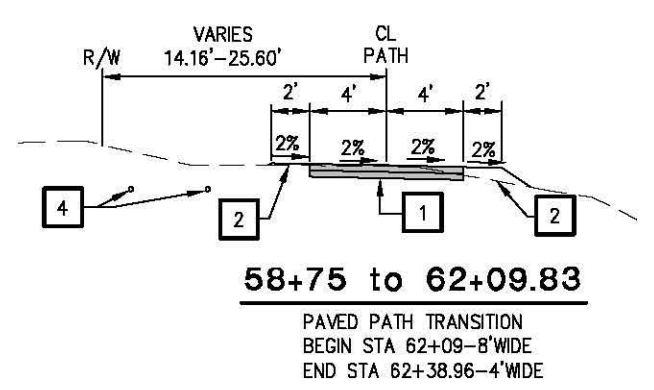
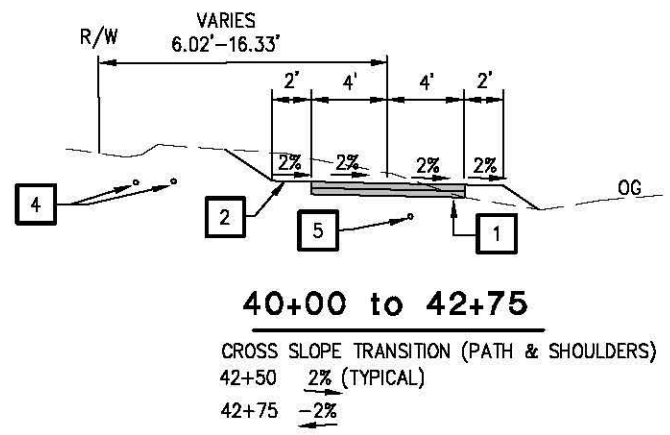
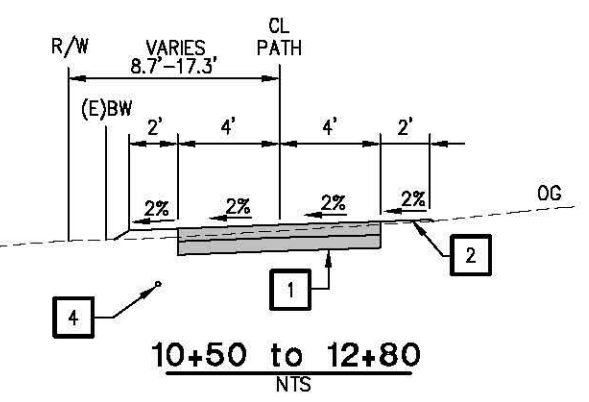
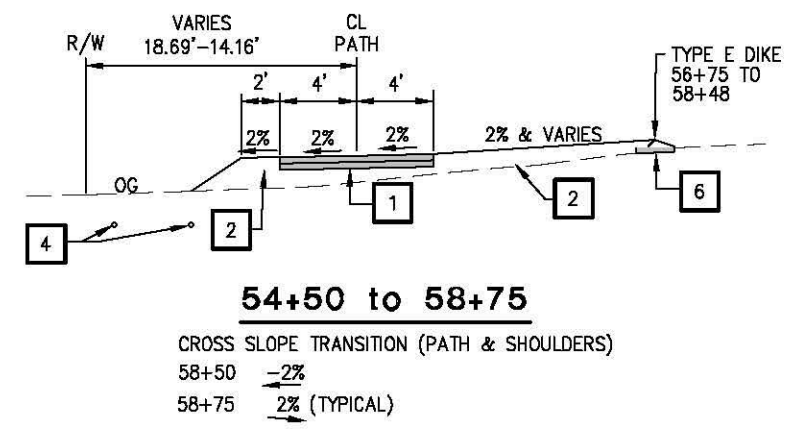
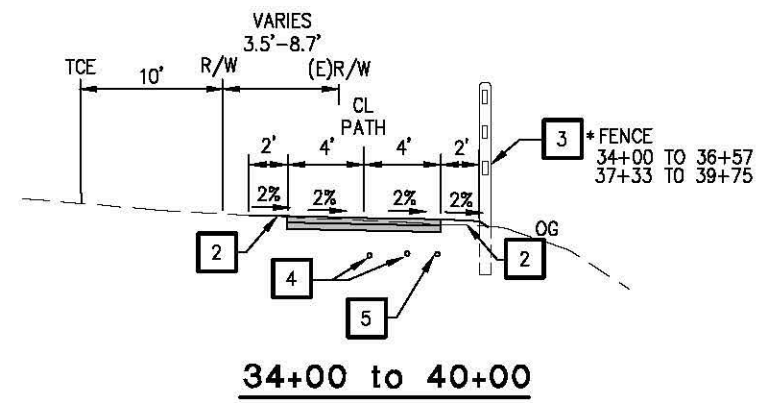
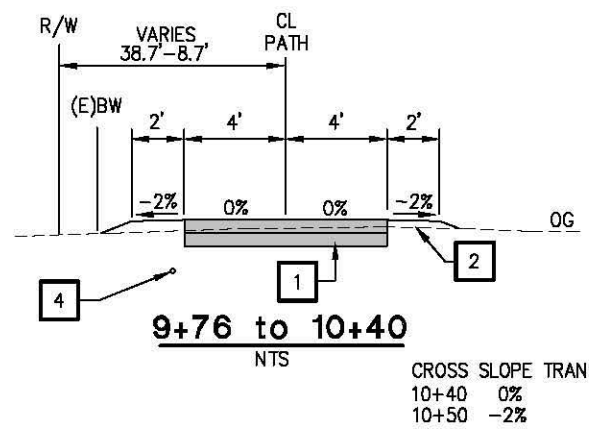
DESIGNED: RR  
DRAWN: RR  
CHECKED: LM  
DATE: 04/23/13  
ROAD NUMBER: SR 49

EL DORADO COUNTY  
DEPARTMENT OF TRANSPORTATION

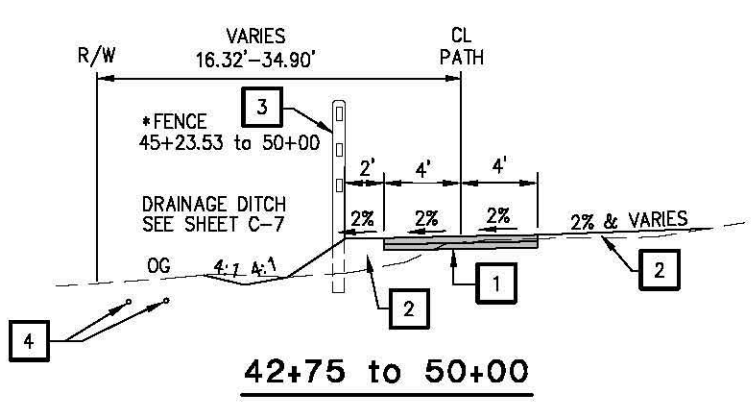
NORTHSIDE SCHOOL CLASS 1  
BIKE PATH - PHASE 2 (SR49)

SHEET  
CD-1  
2 OF 35  
W.O. No. 72306

ORIGINAL SCALE IS IN INCHES  
Drawing Name: C:\Civil 3D\Projects\72306 Northside School Class 1 Bike Path - SR 49\CADD Files\Sheets\X-1.dwg Layout: Tab: X-1 May 08 2013 10:56am Sluvey



**DRIVEWAYS**  
STA 19+83-20+17  
STA 26+35-26+68  
STA 31+73-32+15



**GENERAL NOTES:**

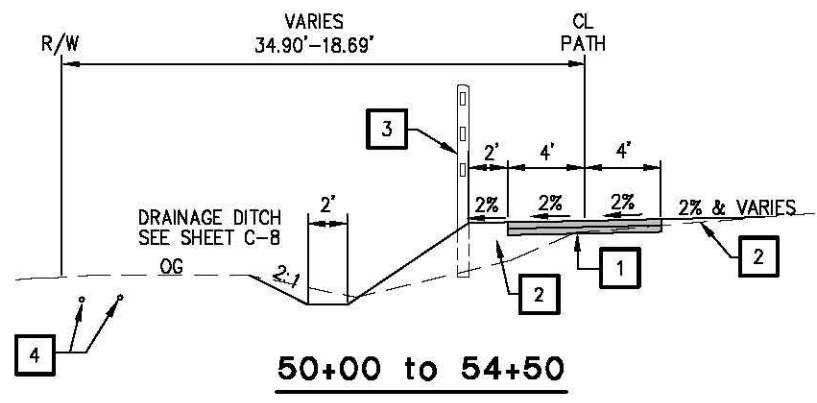
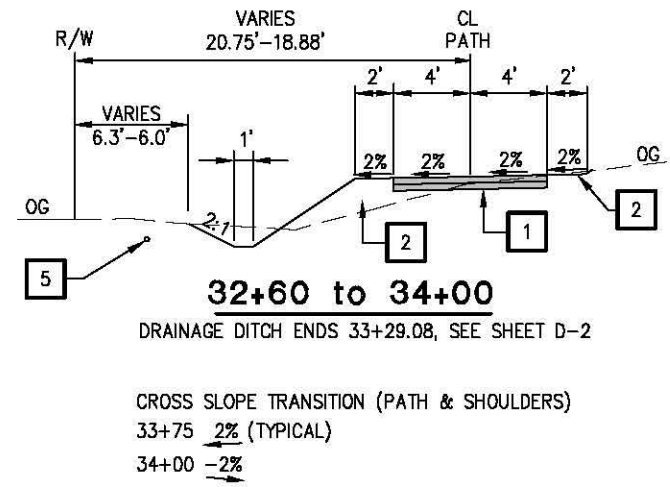
1. STATION/OFFSET CALLOUTS PER "49 PATH CL" ALIGNMENT
2. 1.5:1 CUT/FILL SLOPES, UNLESS NOTED
3. ALL FILL SLOPES SHALL BE KEYED
4. 8' WIDE AC PATH UNLESS NOTED
5. 2' WIDE SHOULDERS UNLESS NOTED
6. BIKE/PED PATHWAY SHALL HAVE 5' MINIMUM SEPARATION FROM EDGE OF EXISTING ROADWAY PAVEMENT
7. INSTALL ROLLED EROSION CONTROL PRODUCT (BLANKET) TYPE Q ON ALL CUT AND FILL SLOPES 2:1 OR STEEPER

**ABBREVIATIONS**

R/W - RIGHT OF WAY  
(E)BW - EXISTING BARB WIRE FENCE  
(E)AC - EXISTING ASPHALT CONCRETE

**CONSTRUCTION NOTES:**

1. 0.33' HOT MIX ASPHALT (TYPE A) OVER 0.33' AB (CLASS 2)
2. SUBGRADE COMPACTED TO 90% 0.5' DEPTH MAX UNDER SHOULDER
3. FENCE, SEE LAYOUT SHEETS FOR TYPE AND STATION BEGIN/END
4. APPROXIMATE LOCATION OF AT&T UNDERGROUND UTILITIES. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION.
5. APPROXIMATE LOCATION OF PRIVATE WATER SERVICE. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION.
6. 2' PAVED SHOULDER FOR TYPE E DIKE, 0.25' HOT MIX ASPHALT (TYPE A) OVER COMPACTED NATIVE



TYPICAL SECTIONS  
SCALE : N.T.S.

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
*Paul J. Hom*  
REGISTERED CIVIL ENGINEER  
DATE: 05/08/13

DESIGNED: CG  
DRAWN: RR  
CHECKED: PH  
DATE: 04/23/13  
ROAD NUMBER: SR 49



EL DORADO COUNTY  
DEPARTMENT OF TRANSPORTATION

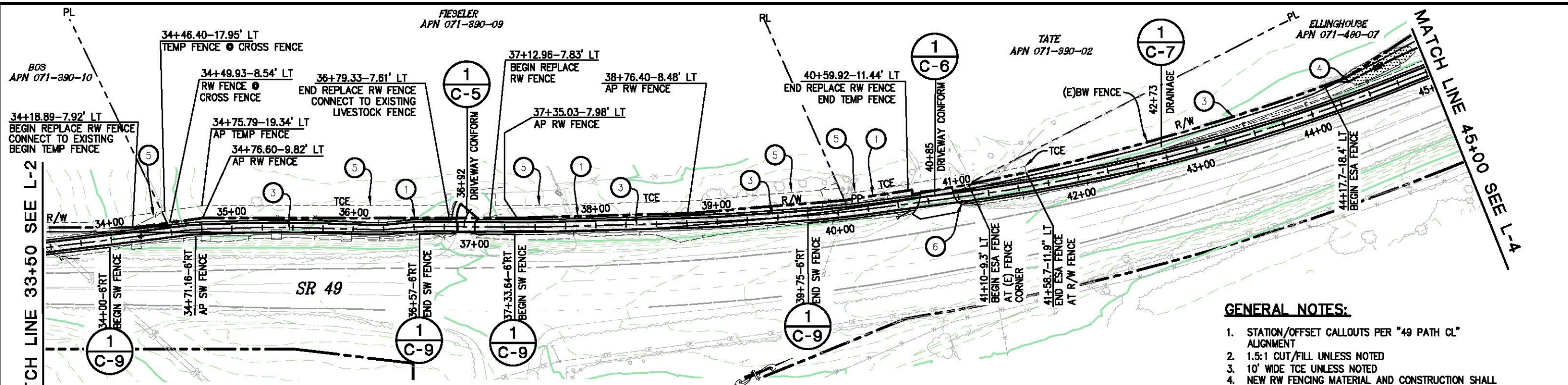
NORTHSIDE SCHOOL CLASS 1  
BIKE PATH - PHASE 2 (SR49)

SHEET  
X-1  
3 OF 35  
W.D. No. 72306





ORIGINAL SCALE: 1" = 40' HORIZONTAL, 1" = 20' VERTICAL  
 FOR REDUCED PLANS  
 Drawing name: C:\Civil 3D\Projects\72306 Northside School Class 1 Bike Path - SR 49\CADD Files\Sheets\L-1.dwg Layout Tab: L-3 May 08 2013 11:03am SMCwey



**WARNING**  
 THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION

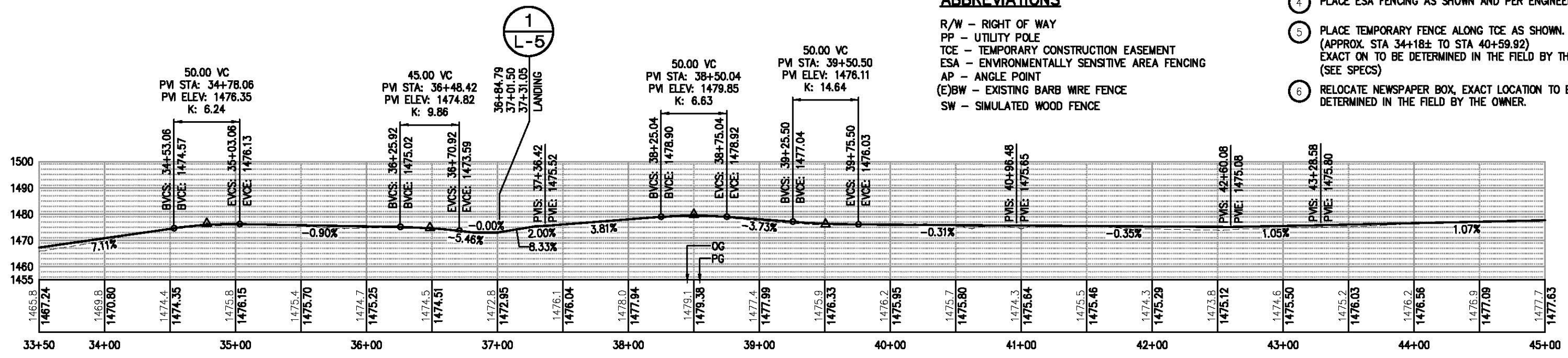
**PLAN - BIKE PATH**  
 SCALE: 1"=40'

- LEGEND:**
- SIMULATED WOOD FENCE (SW), SEE SHEET C-9. FENCE LINETYPE IS GRAPHIC ONLY AND DOES NOT DELINEATE ACTUAL POST LOCATION
  - R/W FENCE
  - DEFINED WETLANDS

- ABBREVIATIONS**
- R/W - RIGHT OF WAY
  - PP - UTILITY POLE
  - TCE - TEMPORARY CONSTRUCTION EASEMENT
  - ESA - ENVIRONMENTALLY SENSITIVE AREA FENCING
  - AP - ANGLE POINT
  - (E)BW - EXISTING BARB WIRE FENCE
  - SW - SIMULATED WOOD FENCE

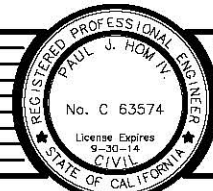
- GENERAL NOTES:**
1. STATION/OFFSET CALLOUTS PER "49 PATH CL" ALIGNMENT
  2. 1.5:1 CUT/FILL UNLESS NOTED
  3. 10' WIDE TCE UNLESS NOTED
  4. NEW RW FENCING MATERIAL AND CONSTRUCTION SHALL MATCH EXISTING FENCE

- CONSTRUCTION NOTES:**
1. NEW R/W FENCE SHALL BE INSTALLED PER DETAIL A86, AT THE COMPLETION OF WORK.
  2. PLACE ESA FENCING ALONG TCE AS SHOWN
  3. AT&T UNDERGROUND UTILITIES
  4. PLACE ESA FENCING AS SHOWN AND PER ENGINEER.
  5. PLACE TEMPORARY FENCE ALONG TCE AS SHOWN. (APPROX. STA 34+18± TO STA 40+59.92) EXACT ON TO BE DETERMINED IN THE FIELD BY THE OWNER. (SEE SPECS)
  6. RELOCATE NEWSPAPER BOX, EXACT LOCATION TO BE DETERMINED IN THE FIELD BY THE OWNER.



**PROFILE - BIKE PATH**  
 SCALE: 1"=40'H, 20'V

PLAN AND PROFILE SCALE : AS NOTED



PREPARED UNDER THE SUPERVISION OF:  
**Paul J. Hom**  
 REGISTERED CIVIL ENGINEER  
 DATE: 05/08/13

DESIGNED: CG  
 DRAWN: RR  
 CHECKED: PH  
 DATE: 04/23/13  
 ROAD NUMBER: SR 49

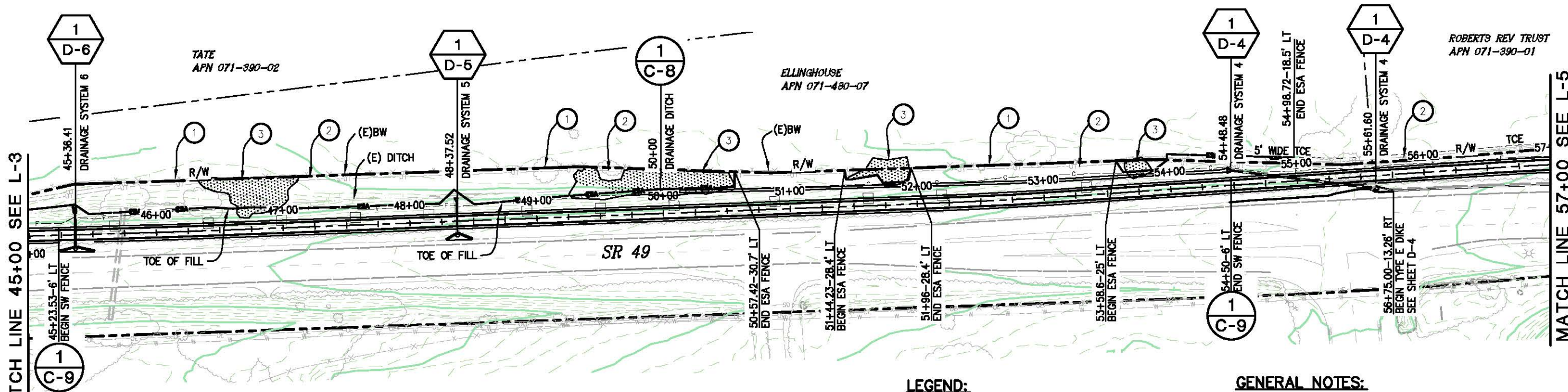


EL DORADO COUNTY  
 DEPARTMENT OF TRANSPORTATION

NORTHSIDE SCHOOL CLASS 1  
 BIKE PATH - PHASE 2 (SR49)

SHEET  
 L-3  
 6 OF 35  
 W.O. No. 72306

ORIGINAL SCALE: 1" = 40' IN INCHES  
 Drawing name: C:\Civil 3D\Projects\72306 Northside School Class 1 Bike Path - SR 49\CADD Files\Sheets\L-1.dwg  
 Layout Tab: L-4  
 May 08 2013 11:02am SMCvey  
 FOR REDUCED PLANS  
 2  
 1  
 0



MATCH LINE 45+00 SEE L-3

MATCH LINE 57+00 SEE L-5

**WARNING**  
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**PLAN - BIKE PATH**  
 SCALE: 1"=40'

**LEGEND:**

- SIMULATED WOOD FENCE (SW), SEE SHEET C-9. FENCE LINETYPE IS GRAPHIC ONLY AND DOES NOT DELINEATE ACTUAL POST LOCATION
- R/W FENCE
- DEFINED WETLANDS

**GENERAL NOTES:**

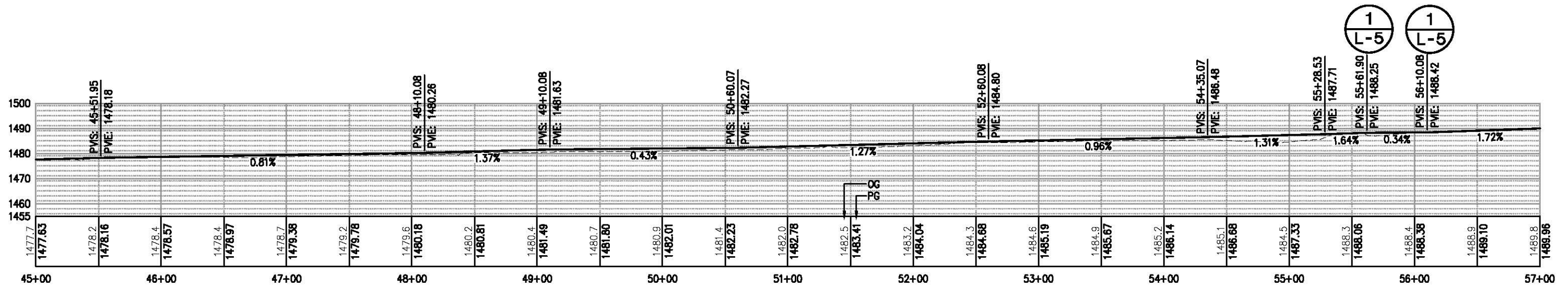
1. STATION/OFFSET CALLOUTS PER "49 PATH CL" ALIGNMENT
2. 1.5:1 CUT/FILL UNLESS NOTED
3. NEW RW FENCING MATERIAL AND CONSTRUCTION SHALL MATCH EXISTING FENCE AND WILL BE PLACED ON THE RW PER A86

**CONSTRUCTION NOTES:**

1. PLACE ESA FENCING ALONG TCE AND (E)BW FENCE AS SHOWN
2. AT&T UNDERGROUND UTILITIES
3. PLACE ESA FENCING AS SHOWN AND PER ENGINEER.

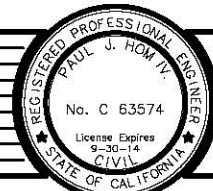
**ABBREVIATIONS**

- R/W - RIGHT OF WAY
- PP - UTILITY POLE
- TCE - TEMPORARY CONSTRUCTION EASEMENT
- ESA - ENVIRONMENTALLY SENSITIVE AREA FENCING
- AP - ANGLE POINT
- (E)BW - EXISTING BARB WIRE FENCE
- SW - SIMULATED WOOD FENCE



**PROFILE - BIKE PATH**  
 SCALE: 1"=40'H, 20'V

PLAN AND PROFILE SCALE: AS NOTED



PREPARED UNDER THE SUPERVISION OF:  
*Paul J. Hom*  
 REGISTERED CIVIL ENGINEER  
 DATE: 05/08/13

DESIGNED: CG  
 DRAWN: RR  
 CHECKED: PH  
 DATE: 04/23/13  
 ROAD NUMBER: SR 49

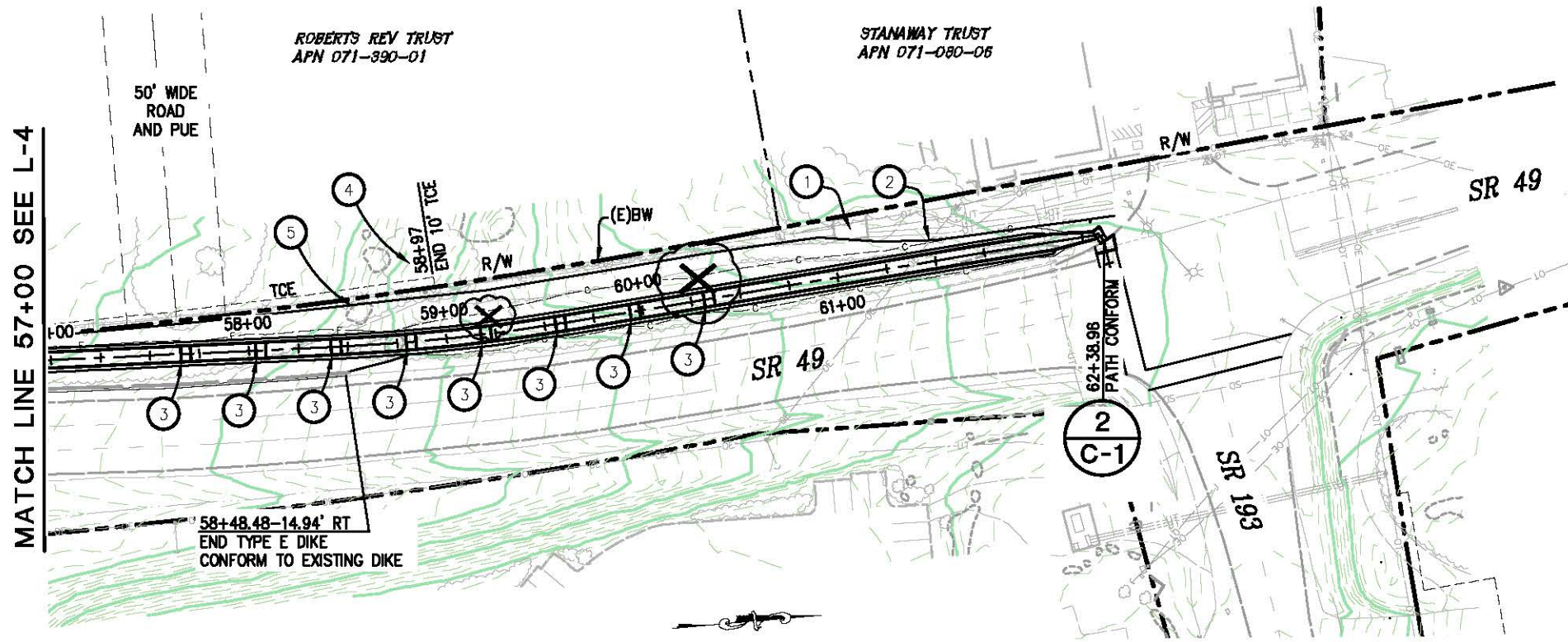


EL DORADO COUNTY  
 DEPARTMENT OF TRANSPORTATION

NORTHSIDE SCHOOL CLASS 1  
 BIKE PATH - PHASE 2 (SR49)

SHEET  
 L-4  
 7 OF 35  
 W.O. No. 72306

ORIGINAL SCALE IS IN INCHES  
 Drawing name: C:\Civil 3D\Projects\72306 Northside School Class 1 Bike Path - SR 49\CADD Files\Sheets\L-1.dwg Layout Tab: L-5 May 08 2013 11:00am SMCvey  
 FOR REDUCED PLANS



**PLAN - BIKE PATH**  
SCALE: 1"=40'

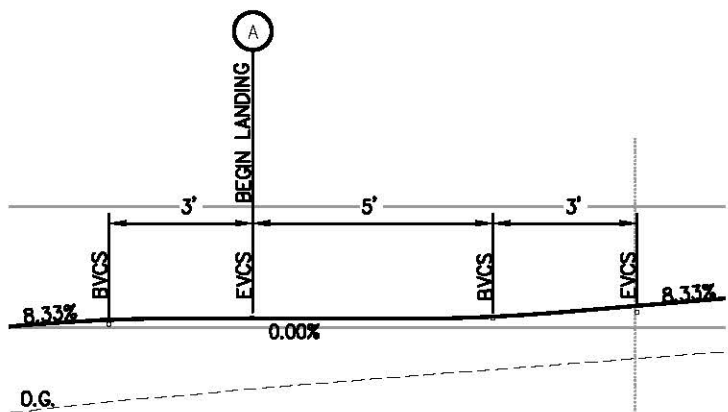
**WARNING**  
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**ABBREVIATIONS**  
 R/W - RIGHT OF WAY  
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 (E)BW - EXISTING BARB WIRE FENCE

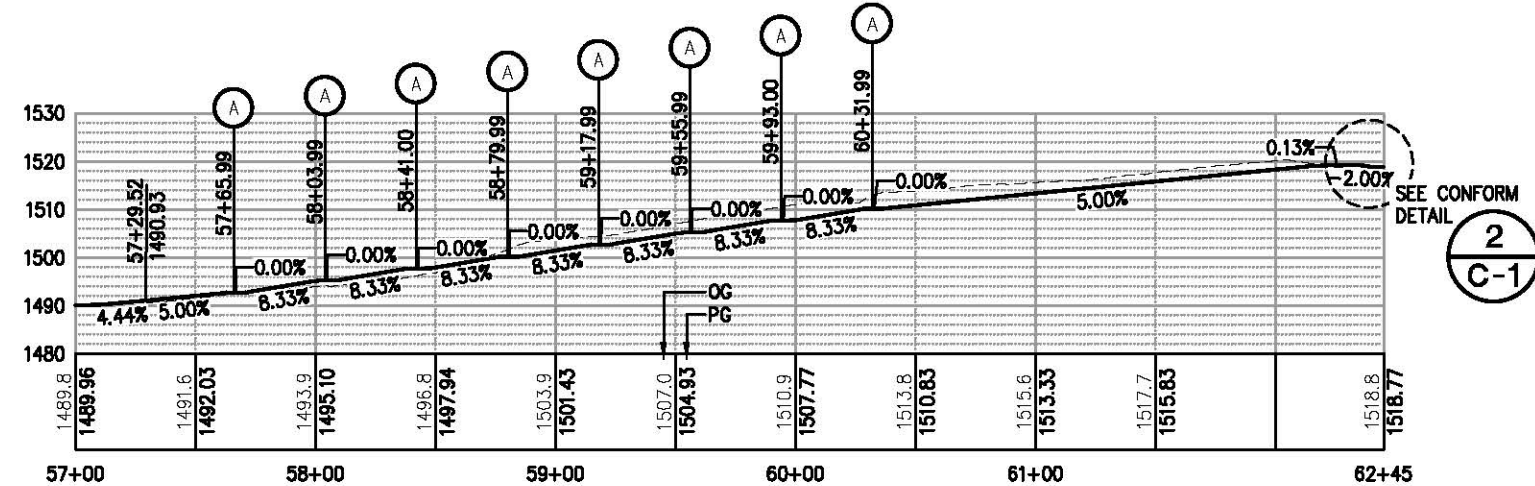
**GENERAL NOTES:**  
 1. STATION/OFFSET CALLOUTS PER "49 PATH CL" ALIGNMENT  
 2. 1.5:1 CUT/FILL UNLESS NOTED  
 3. NEW RW FENCING MATERIAL AND CONSTRUCTION SHALL MATCH EXISTING FENCE AND WILL BE PLACED ON THE RW PER A86

**CONSTRUCTION NOTES:**  
 1. AT&T UTILITY CABINETS, PROTECT IN PLACE  
 2. AT&T UNDERGROUND UTILITIES  
 3. BIKE PATH LANDING. REFER TO PROFILE AND TYPICAL LANDING DETAIL, THIS SHEET, FOR STATION LOCATIONS AND LAYOUT.  
 4. PROTECT LARGE OAK TREE, (ROBERTS PARCEL)  
 5. PROTECT IN PLACE, LARGE BOULDER

**LEGEND:**  
 SIMULATED WOOD FENCE (SW), SEE SHEET C-9. FENCE LINETYPE IS GRAPHIC ONLY AND DOES NOT DELINEATE ACTUAL POST LOCATION  
 R/W FENCE  
 REMOVE EXISTING TREES

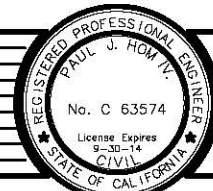


**1 TYPICAL LANDING**  
N.T.S.



**PROFILE - BIKE PATH**  
SCALE: 1"=40'H, 20'V

PLAN AND PROFILE SCALE : AS NOTED



PREPARED UNDER THE SUPERVISION OF:  
*Paul J. Horn*  
 REGISTERED CIVIL ENGINEER  
 DATE: 05/08/13

DESIGNED: CG  
 DRAWN: RR  
 CHECKED: PH  
 DATE: 04/23/13  
 ROAD NUMBER: SR 49



EL DORADO COUNTY  
 DEPARTMENT OF TRANSPORTATION

NORTHSIDE SCHOOL CLASS 1  
 BIKE PATH - PHASE 2 (SR49)

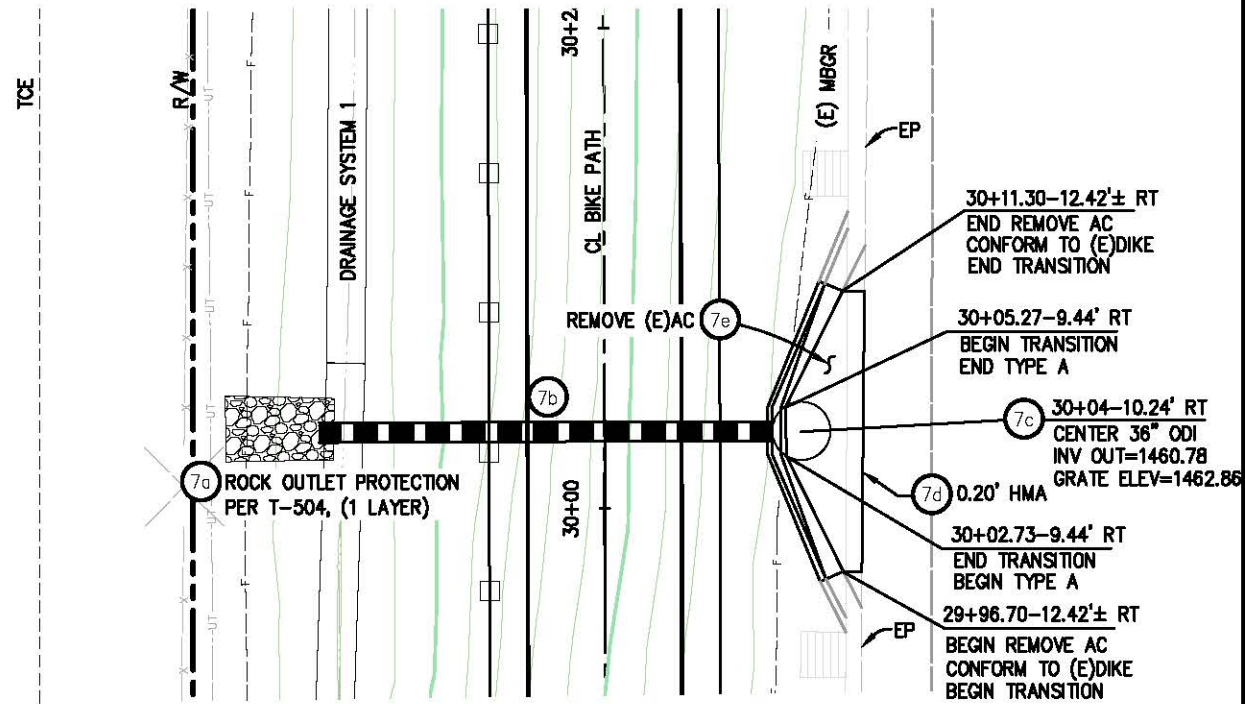
SHEET  
 L-5  
 8 OF 35  
 W.C. No. 72306



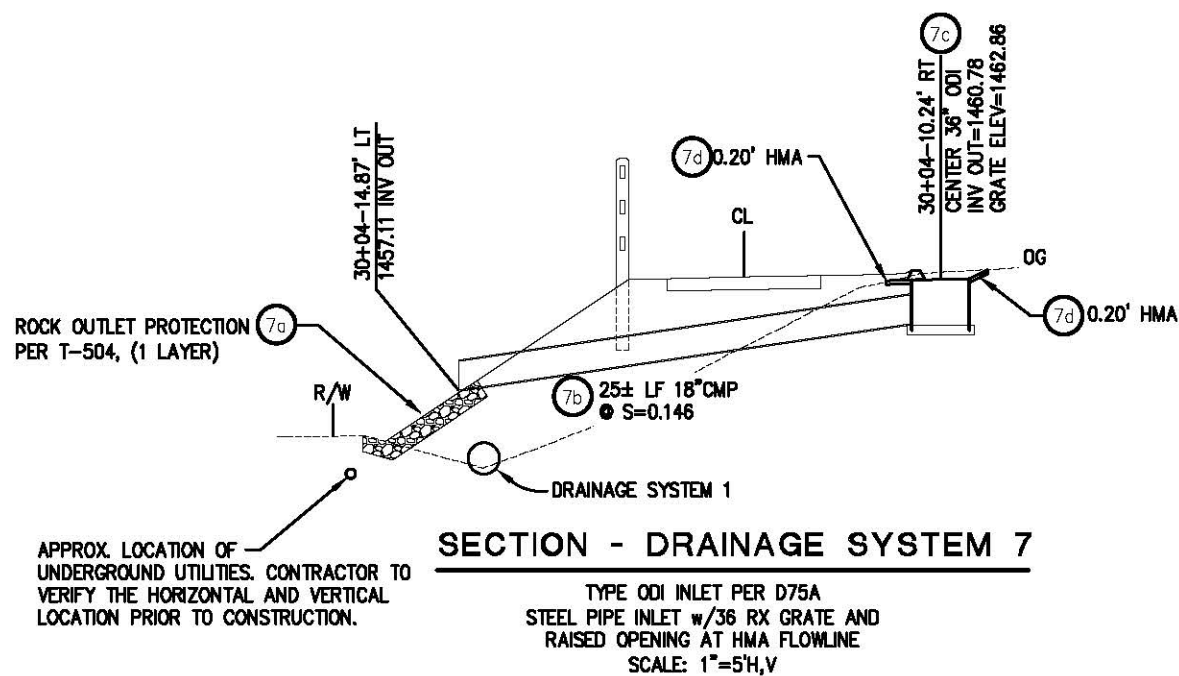


**WARNING**

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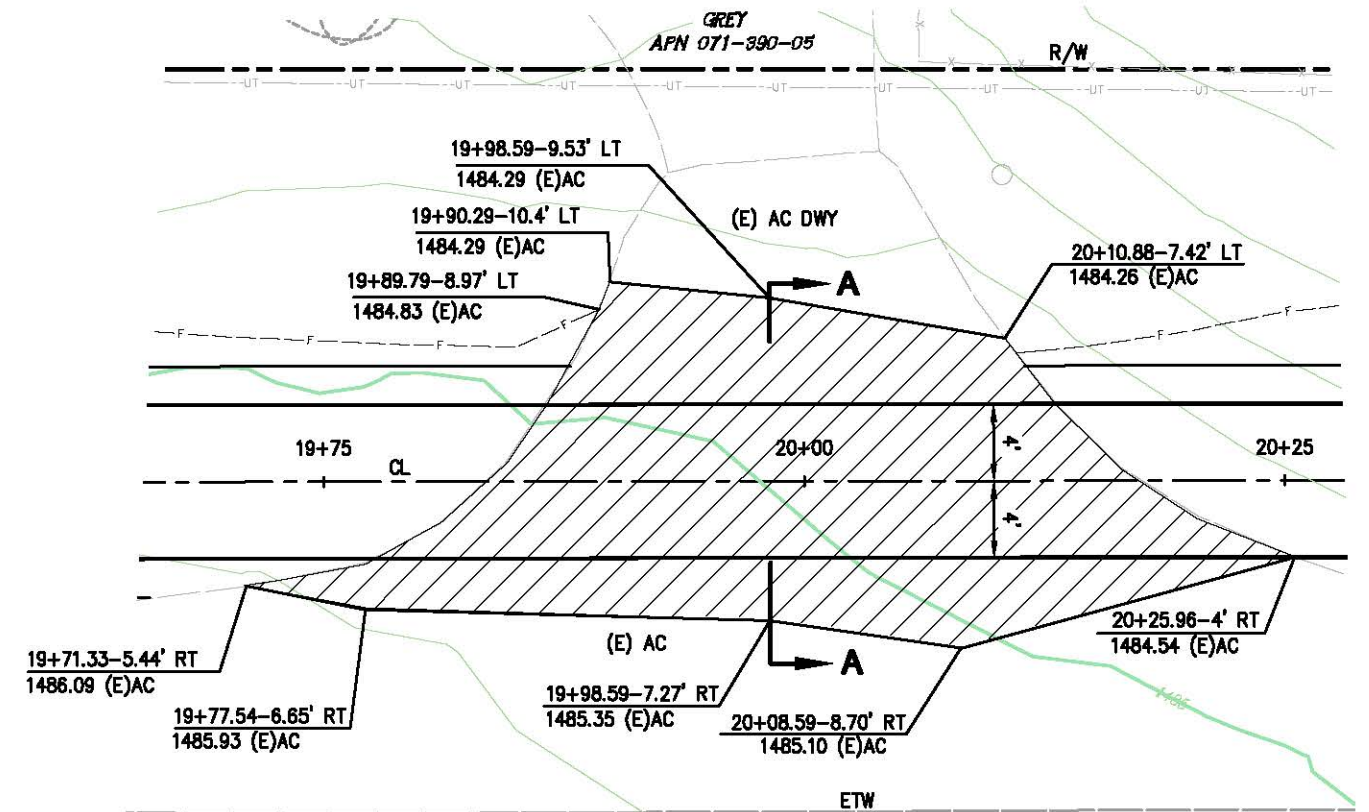
1 PLAN - DRAINAGE SYSTEM 7  
TYPE ODI INLET PER D75A  
SCALE: 1"=5'



SECTION - DRAINAGE SYSTEM 7  
TYPE ODI INLET PER D75A  
STEEL PIPE INLET w/36 RX GRATE AND  
RAISED OPENING AT HMA FLOWLINE  
SCALE: 1"=5'H,V

**WARNING**

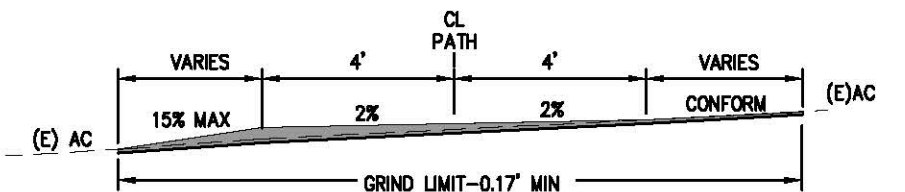
THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION



1 PLAN - DRIVEWAY CONFORM  
SCALE: 1"=5'

NOTE:  
HMA THICKNESS VARIES 0.17 TO 0.3 ±

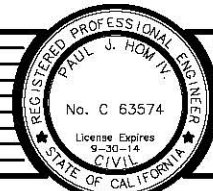
GRIND 0.17' MINIMUM



SECTION A-A  
N.T.S.

CONSTRUCTION DETAILS  
DRIVEWAY CONFORM  
SCALE : AS NOTED

ORIGINAL SCALE IS IN INCHES  
Drawing name: C:\Civil 3D Projects\72306 Northside School Class 1 Bike Path - SR 49\CADD Files\Sheets\C-2.dwg Layout: Tab: C-2 May 08 2013 11:17am Skucey



PREPARED UNDER THE SUPERVISION OF:  
*Paul J. Hom*  
REGISTERED CIVIL ENGINEER  
05/08/13

DESIGNED: CG  
DRAWN: RR  
CHECKED: PH  
DATE: 04/23/13  
ROAD NUMBER: SR 49



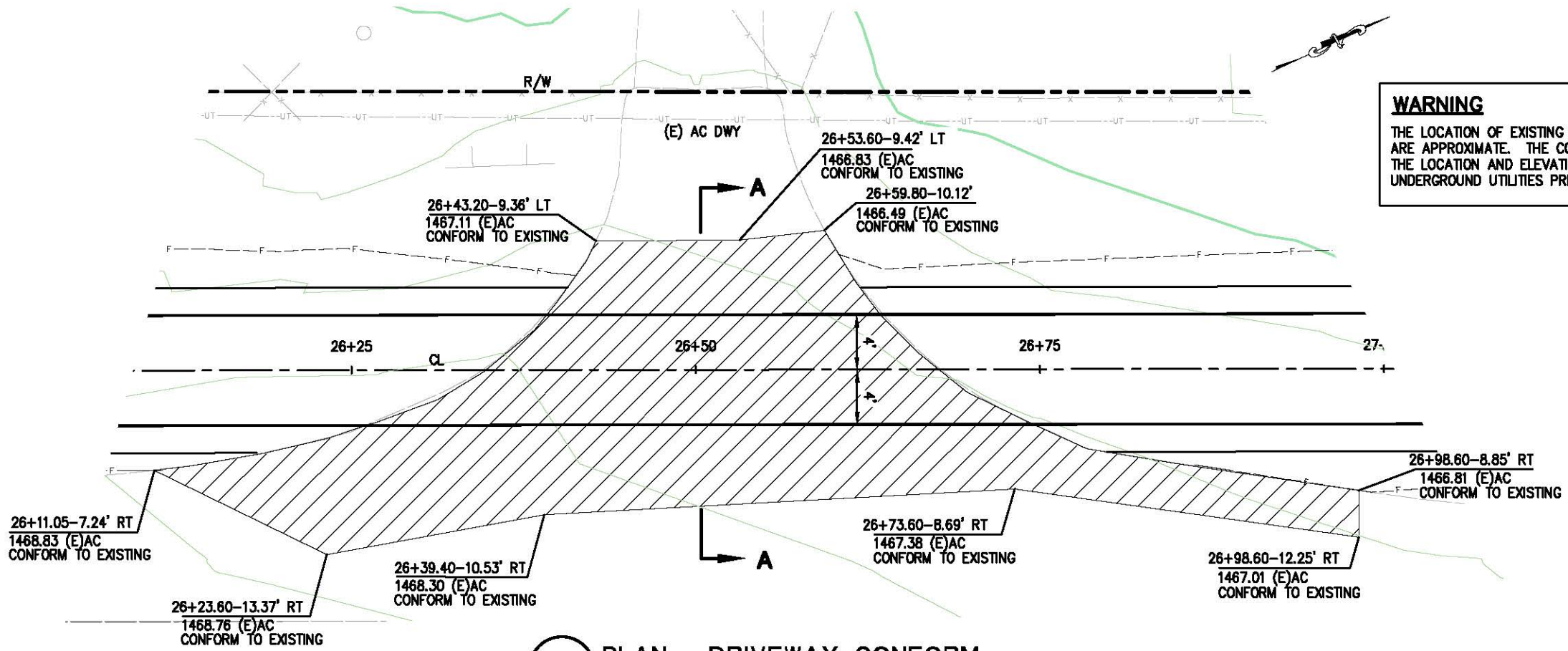
EL DORADO COUNTY  
DEPARTMENT OF TRANSPORTATION

NORTHSIDE SCHOOL CLASS 1  
BIKE PATH - PHASE 2 (SR49)

SHEET  
C-2  
10 of 35  
W.O. No. 72306

ORIGINAL SCALE IS IN INCHES  
 Drawing name: C:\Civil 3D Projects\72306 Northside School Class 1 Bike Path - SR 49\CADD Files\Sheets\C-3.dwg Layout: Tab: C-3 May 08, 2013 11:25am SMOEY  
 FOR REDUCED PLANS  
 2  
 1  
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GREY  
APN 071-390-05

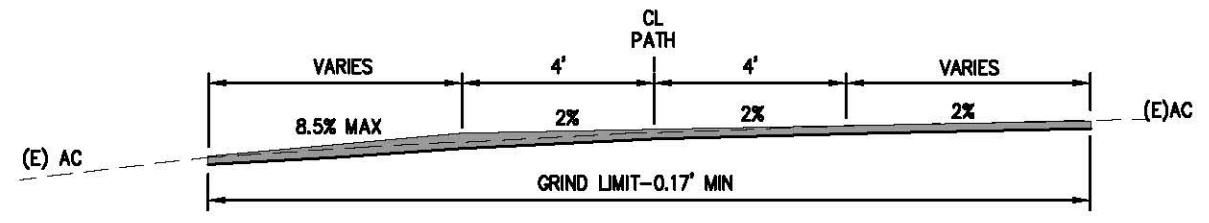


**WARNING**  
 THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION

**1 PLAN - DRIVEWAY CONFORM**  
 SCALE: 1"=5'

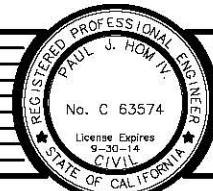
GRIND 0.17' MINIMUM

NOTE:  
HMA THICKNESS VARIES 0.17 TO 0.3 ±



**SECTION A-A**  
 NTS

CONSTRUCTION DETAILS  
 DRIVEWAY CONFORM  
 SCALE : AS NOTED



PREPARED UNDER THE SUPERVISION OF:  
*Paul J. Hom*  
 REGISTERED CIVIL ENGINEER  
 DATE: 05/08/13

DESIGNED: CG  
 DRAWN: RR  
 CHECKED: PH  
 DATE: 04/23/13  
 ROAD NUMBER: SR 49

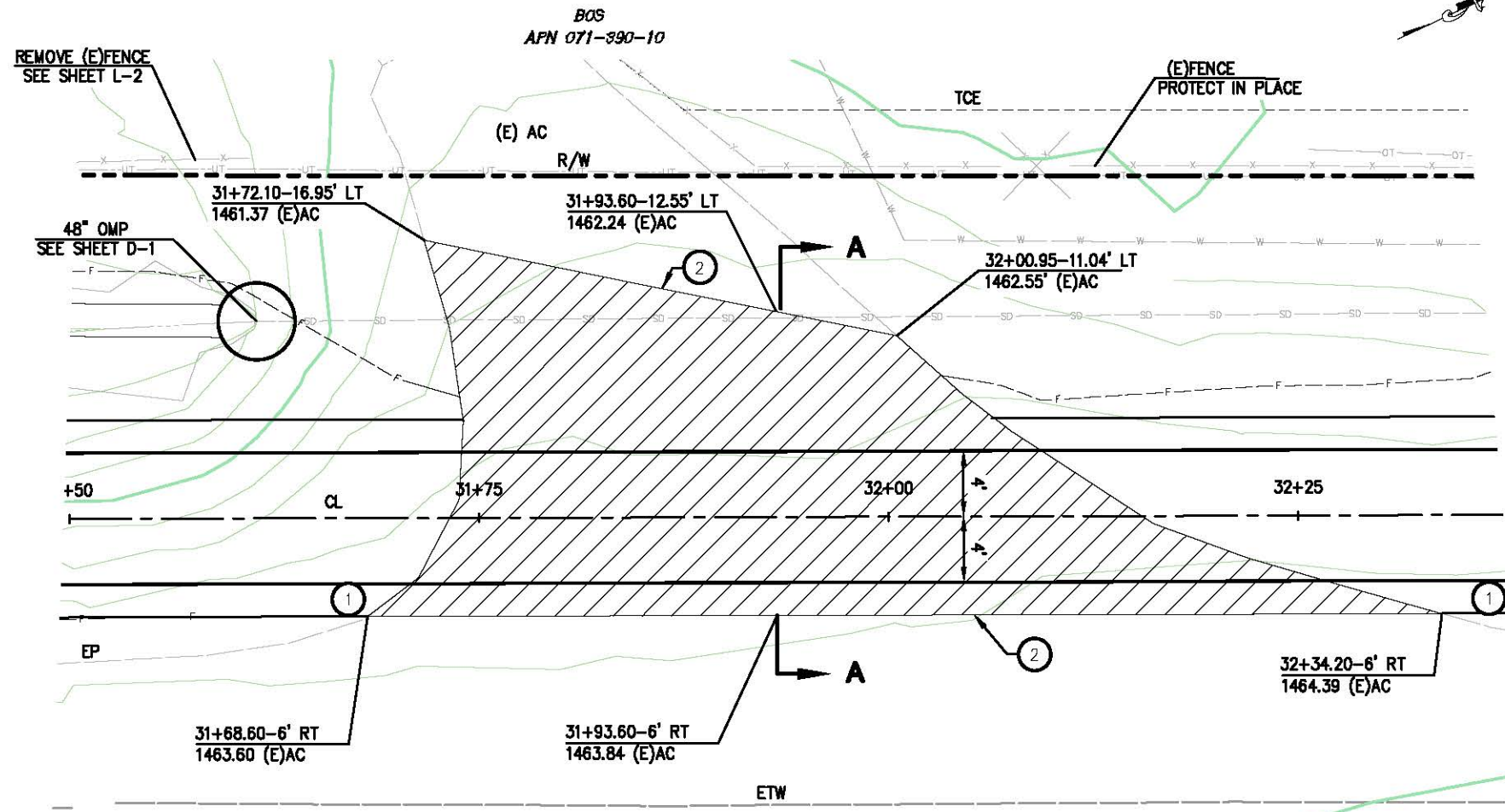


EL DORADO COUNTY  
 DEPARTMENT OF TRANSPORTATION

NORTHSIDE SCHOOL CLASS 1  
 BIKE PATH - PHASE 2 (SR49)

SHEET  
**C-3**  
 11 of 35  
 W.O. No. 72306

ORIGINAL SCALE IS IN INCHES  
 Drawing name: C:\Civil 3D Projects\72306 Northside School Class 1 Bike Path - SR 49\CADD Files\Sheets\C-4.dwg Layout: Tab: C-4 May 08 2013 11:33am SMOKEY  
 FOR REDUCED PLANS  
 2  
 1  
 0



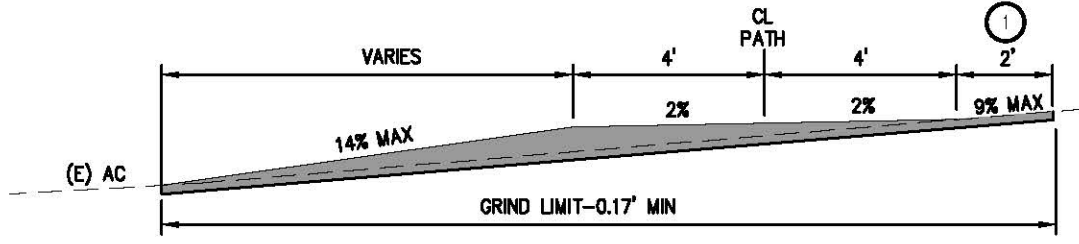
**WARNING**  
 THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION

**1 PLAN - DRIVEWAY DETAIL**  
 SCALE: 1"=5'



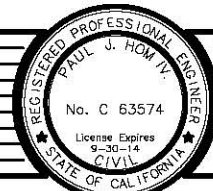
- CONSTRUCTION NOTES:**
- ① - 2' WIDE SHOULDER TO CONFORM TO EXISTING DRIVEWAY
  - ② - GRIND LIMIT TO CONFORM TO EXISTING DRIVEWAY

NOTE:  
 HMA THICKNESS VARIES 0.17 TO 0.7 ±



**SECTION A-A**  
 NTS

CONSTRUCTION DETAILS  
 DRIVEWAY CONFORM  
 SCALE : AS NOTED



PREPARED UNDER THE SUPERVISION OF:  
*Paul J. Hom*  
 REGISTERED CIVIL ENGINEER  
 DATE: 05/08/13

DESIGNED: CG  
 DRAWN: RR  
 CHECKED: PH  
 DATE: 04/23/13  
 ROAD NUMBER: SR 49

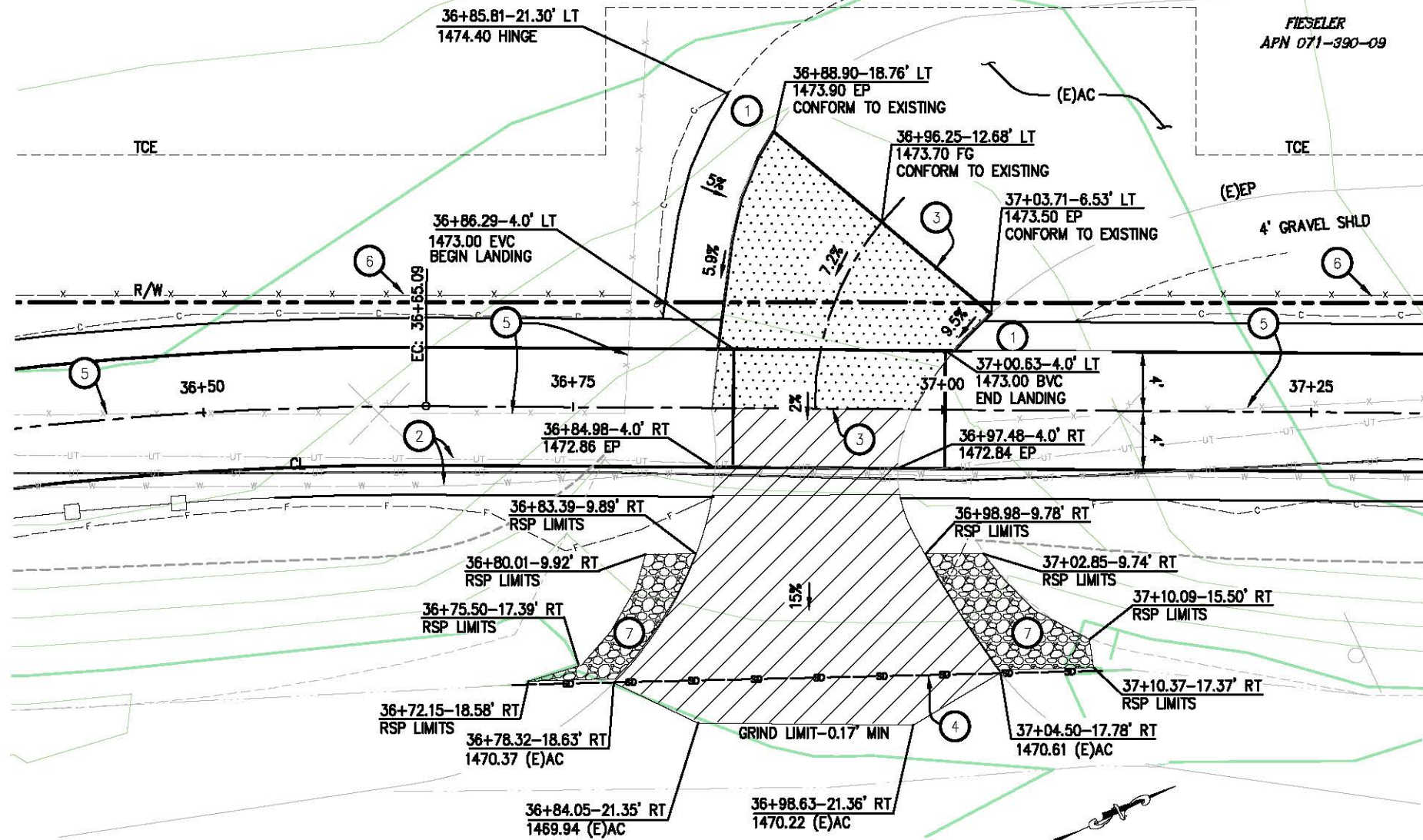


EL DORADO COUNTY  
 DEPARTMENT OF TRANSPORTATION

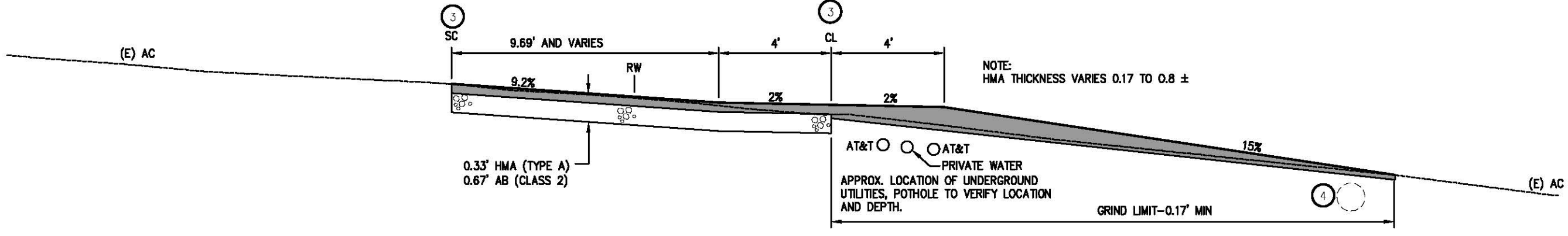
NORTHSIDE SCHOOL CLASS 1  
 BIKE PATH - PHASE 2 (SR49)

SHEET  
 C-4  
 12 OF 35  
 W.O. No. 72306

ORIGINAL SCALE IS IN INCHES  
 Drawing name: C:\Civil\_3D\Projects\72306 Northside School Class 1 Bike Path - SR 49\CADD Files\Sheets\C-5.dwg  
 Layout Tab: C-5 May 08, 2013 11:37am SMevey  
 FOR REDUCED PLANS  
 2  
 1  
 0



**1 PLAN - DRIVEWAY DETAIL**  
SCALE: 1"=5'



**PROFILE**  
NTS

**WARNING**

UNDERGROUND AT&T AND PRIVATE WATER SERVICE CROSS THIS DRIVEWAY. LOCATE AND POTHOLE ALL UTILITIES PRIOR TO CONSTRUCTION.

**GENERAL NOTES:**

1. STATION/OFFSET CALLOUTS PER "49 PATH CL" ALIGNMENT
2. UNLESS NOTED, 2:1 CUT/FILL ALONG DRIVEWAY
3. PRIOR TO CONSTRUCTION - INSTALL ELECTRIFIED TEMPORARY FENCE NEAR THE TCE LINE. THE EXACT LOCATION OF THE FENCE WILL BE DETERMINED BY THE OWNER.

**CONSTRUCTION NOTES:**

1. 4' WIDE GRAVEL SHOULDER, (0.25" THICK) TO MATCH EXISTING SHOULDER
2. UNDERGROUND AT&T AND PRIVATE WATER SERVICE CONTRACTOR SHALL VERIFY VERTICAL AND HORIZONTAL LOCATION PRIOR TO CONSTRUCTION
3. SAWCUT TO A CLEAN UNIFORM LINE
4. (E) CULVERT, PROTECT IN PLACE
5. EXISTING FENCE TO BE REMOVED.
6. NEW R/W FENCE SHALL BE INSTALLED PER DETAIL A86, AT THE COMPLETION OF WORK. (SEE SHEET L-3 FOR STA/OFFSET)
7. REMOVE EXISTING ROCK AND INSTALL RSP (NO.1 METHOD B)

**LEGEND:**

- 0.33' HMA (TYPE A), 0.67' AB (CLASS 2)
- GRIND 0.17' MINIMUM

CONSTRUCTION DETAILS  
DRIVEWAY CONFORM  
SCALE : AS NOTED



PREPARED UNDER THE SUPERVISION OF:  
*Paul J. Hom*  
REGISTERED CIVIL ENGINEER  
DATE: 05/08/13

DESIGNED: CG  
DRAWN: RR  
CHECKED: PH  
DATE: 04/24/13  
ROAD NUMBER: SR 49



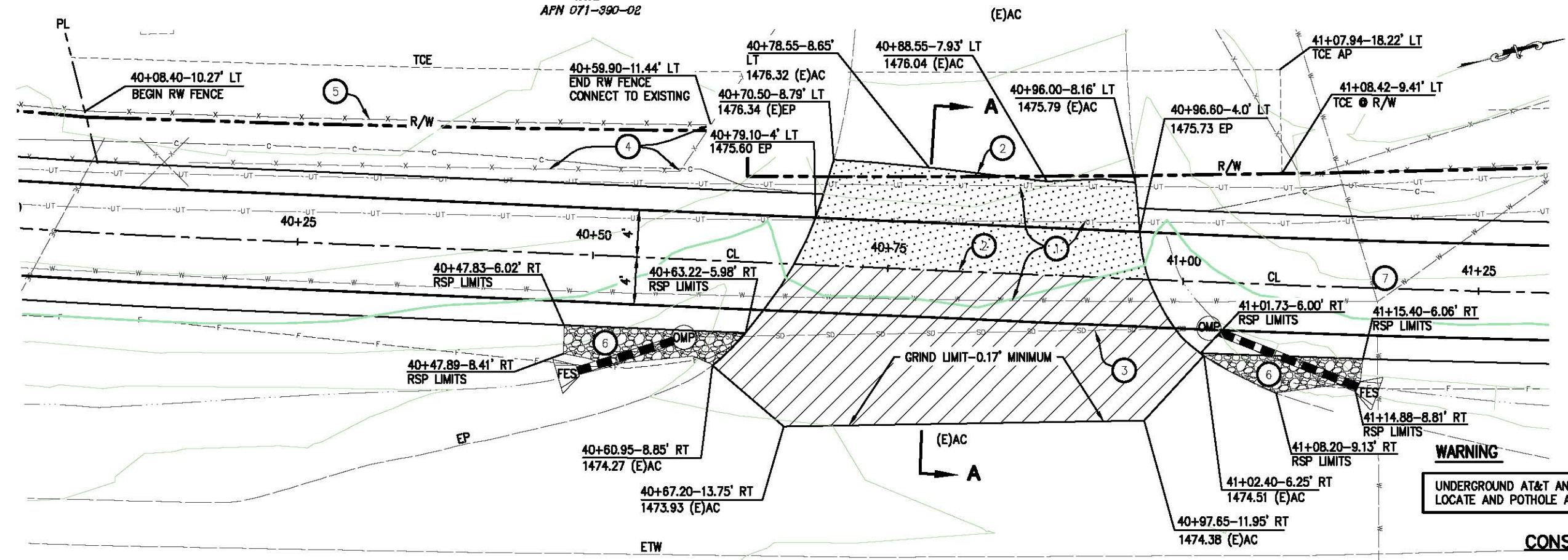
EL DORADO COUNTY  
DEPARTMENT OF TRANSPORTATION

NORTHSIDE SCHOOL CLASS 1  
BIKE PATH - PHASE 2 (SR49)

SHEET  
C-5  
13 OF 35  
W.C. No. 72306

ORIGINAL SCALE IS IN INCHES  
 Drawing name: C:\Civil\_3D\Projects\72306 Northside School Class 1 Bike Path - SR 49\CADD Files\Sheets\C-6.dwg  
 Layout Tab: C-6 May 08, 2013 11:44am Mikevey  
 FOR REDUCED PLANS

TATE  
APN 071-390-02



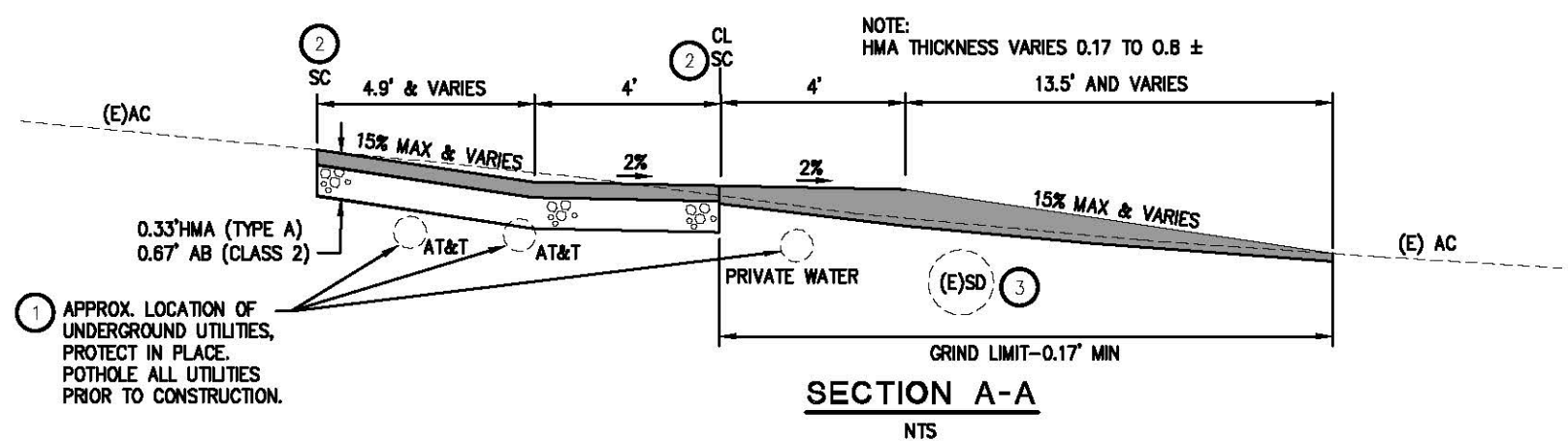
**WARNING**  
 UNDERGROUND AT&T AND PRIVATE WATER SERVICE LINE CROSS THIS DRIVEWAY.  
 LOCATE AND POT HOLE ALL UTILITIES PRIOR TO CONSTRUCTION.

**1 PLAN - DRIVEWAY DETAIL**  
 SCALE: 1"=5'

**CONSTRUCTION NOTES:**

STATION/OFFSET CALLOUTS PER "49 PATH CL" ALIGNMENT  
 UNLESS NOTED, 2:1 CUT/FILL

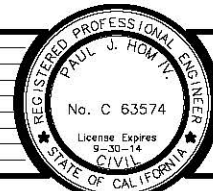
- 1 UNDERGROUND AT&T AND WATER SERVICE CONTRACTOR SHALL VERIFY VERTICAL AND HORIZONTAL LOCATION PRIOR TO CONSTRUCTION
- 2 SAWCUT TO A CLEAN UNIFORM LINE
- 3 (E)CULVERT, PROTECT IN PLACE SEE SHEET D-3 FOR DRAINAGE SYSTEM
- 4 EXISTING FENCE TO BE REMOVED
- 5 NEW R/W FENCE PER DETAIL A86 INSTALL AT THE COMPLETION OF WORK
- 6 RSP (No.1 METHOD B)
- 7 EXISTING GDPUD WATER SERVICE METERS (3) REPLACE WITH TRAFFIC RATED BOXES AND COVERS. ADJUST TO FINISH GRADE OF PATH.



**SECTION A-A**  
 NTS

- 0.33' HMA (TYPE A), 0.67' AB (CLASS 2)
- GRIND 0.17' MINIMUM

**CONSTRUCTION DETAILS**  
 DRIVEWAY CONFORM  
 SCALE : AS NOTED



PREPARED UNDER THE SUPERVISION OF:  
*Paul J. Hom*  
 REGISTERED CIVIL ENGINEER  
 DATE: 05/08/13

DESIGNED: CG  
 DRAWN: RR  
 CHECKED: PH  
 DATE: 04/24/13  
 ROAD NUMBER: SR 49



**EL DORADO COUNTY**  
 DEPARTMENT OF TRANSPORTATION

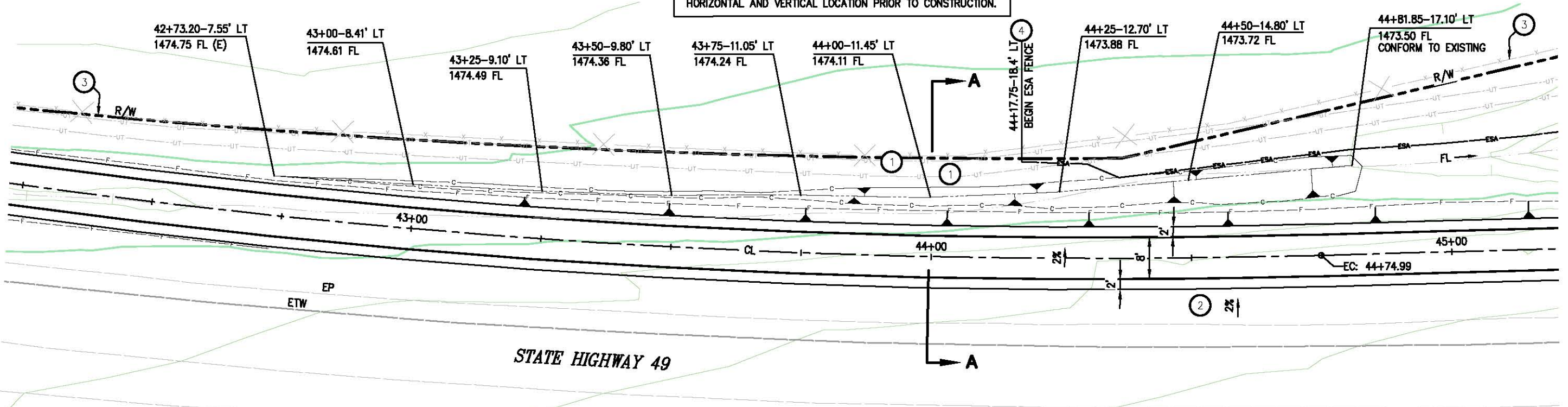
**NORTHSIDE SCHOOL CLASS 1**  
**BIKE PATH - PHASE 2 (SR49)**

SHEET  
**C-6**  
 14 OF 35  
 W.C. No. 72306

ELLINGHOUSE  
APN 071-480-07

**WARNING**

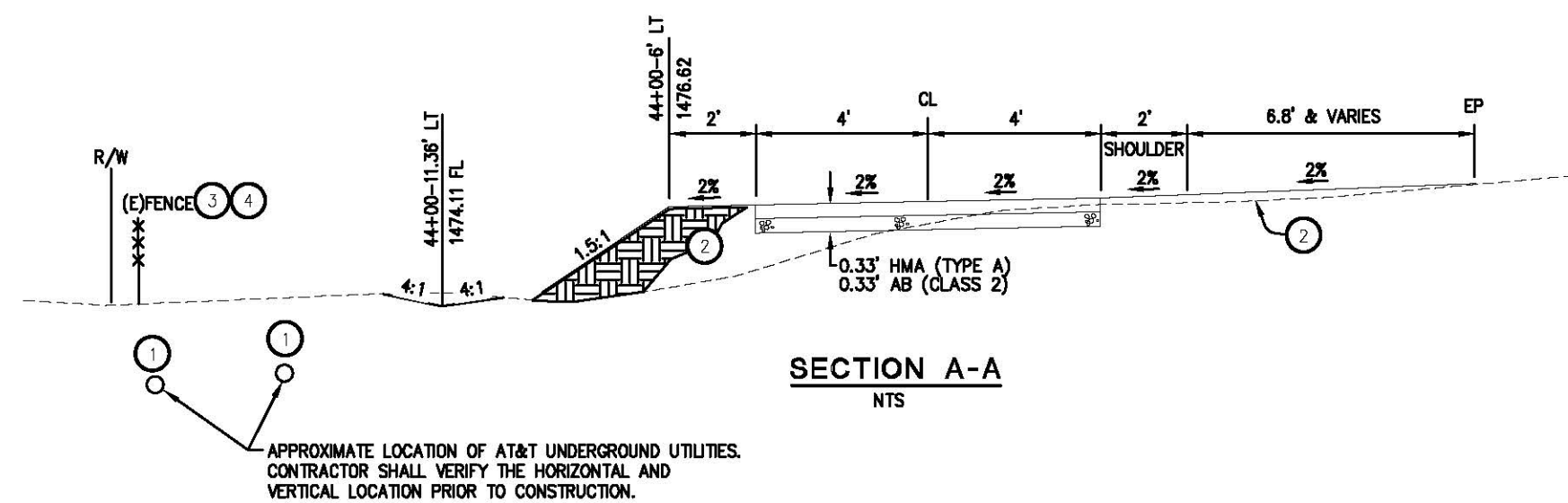
THE LOCATION OF EXISTING UNDERGROUND UTILITIES IS APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION.



1 PLAN - DRAINAGE DITCH  
SCALE: 1"=10'

**GENERAL NOTES:**

1. STATION/OFFSET CALLOUTS PER "49 PATH CL" ALIGNMENT
2. 4:1 CUT ALONG DRAINAGE DITCH



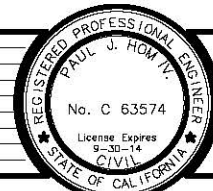
SECTION A-A  
NTS

**CONSTRUCTION NOTES:**

- 1 UNDERGROUND AT&T CONTRACTOR SHALL VERIFY VERTICAL AND HORIZONTAL LOCATION PRIOR TO CONSTRUCTION
- 2 SUBGRADE COMPACTED TO 90% 0.5' MIN. DEPTH UNDER 2' SHOULDER GRADE TO DRAIN FROM EXISTING EP TO BIKE PATH, 2% AND VARIES
- 3 EXISTING RW FENCE, PROTECT IN PLACE
- 4 PLACE ESA FENCING AS SHOWN AND PER ENGINEER

CONSTRUCTION DETAILS  
SCALE : AS NOTED

ORIGINAL SCALE IS IN INCHES  
Drawing name: C:\Civil 3D\Projects\72306 Northside School Class 1 Bike Path - SR 49\CADD Files\Sheets\C-7.dwg Layout Tab: C-7 May 08, 2013 11:49am SMorey



PREPARED UNDER THE SUPERVISION OF:  
*Paul J. Hom*  
REGISTERED CIVIL ENGINEER  
DATE: 05/08/13

DESIGNED: CG  
DRAWN: RR  
CHECKED: PH  
DATE: 04/24/13  
ROAD NUMBER: SR 49

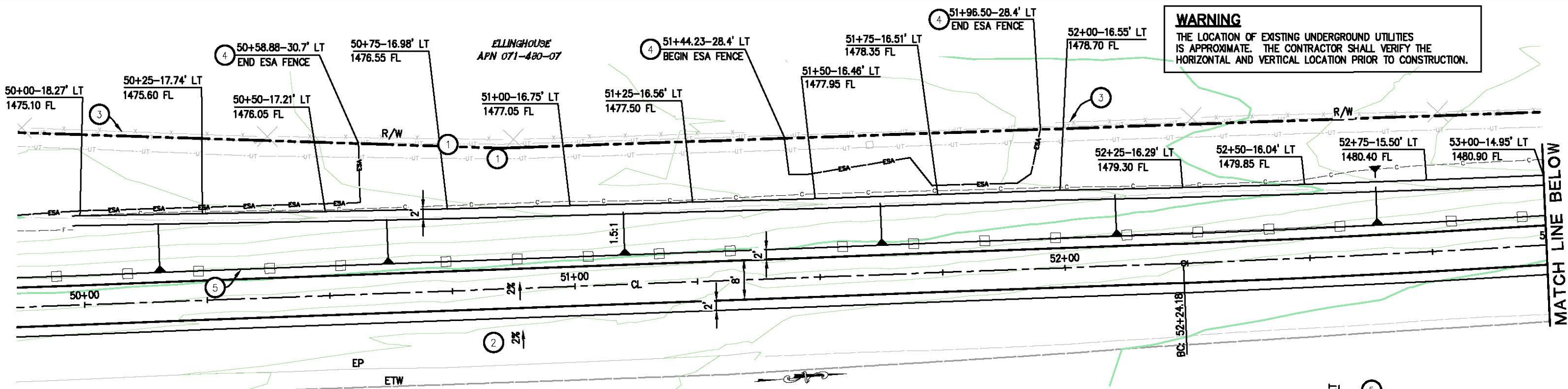


EL DORADO COUNTY  
DEPARTMENT OF TRANSPORTATION

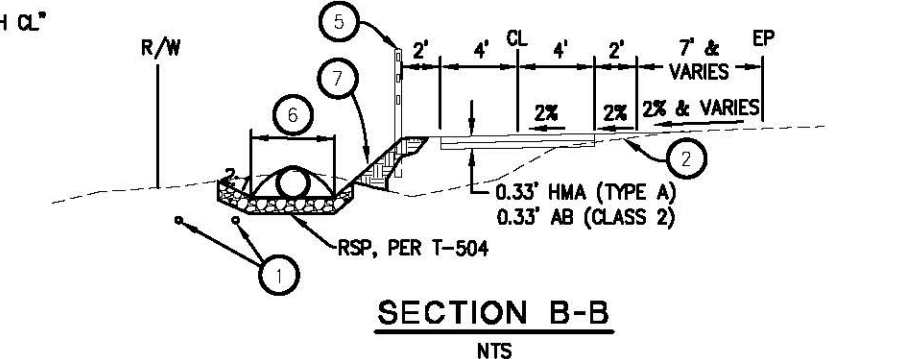
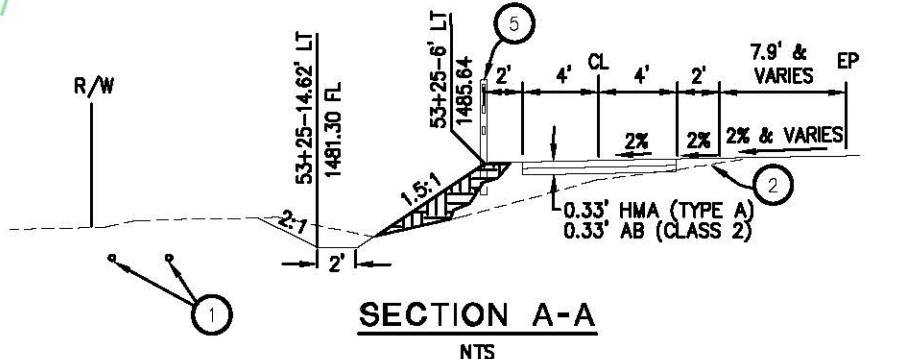
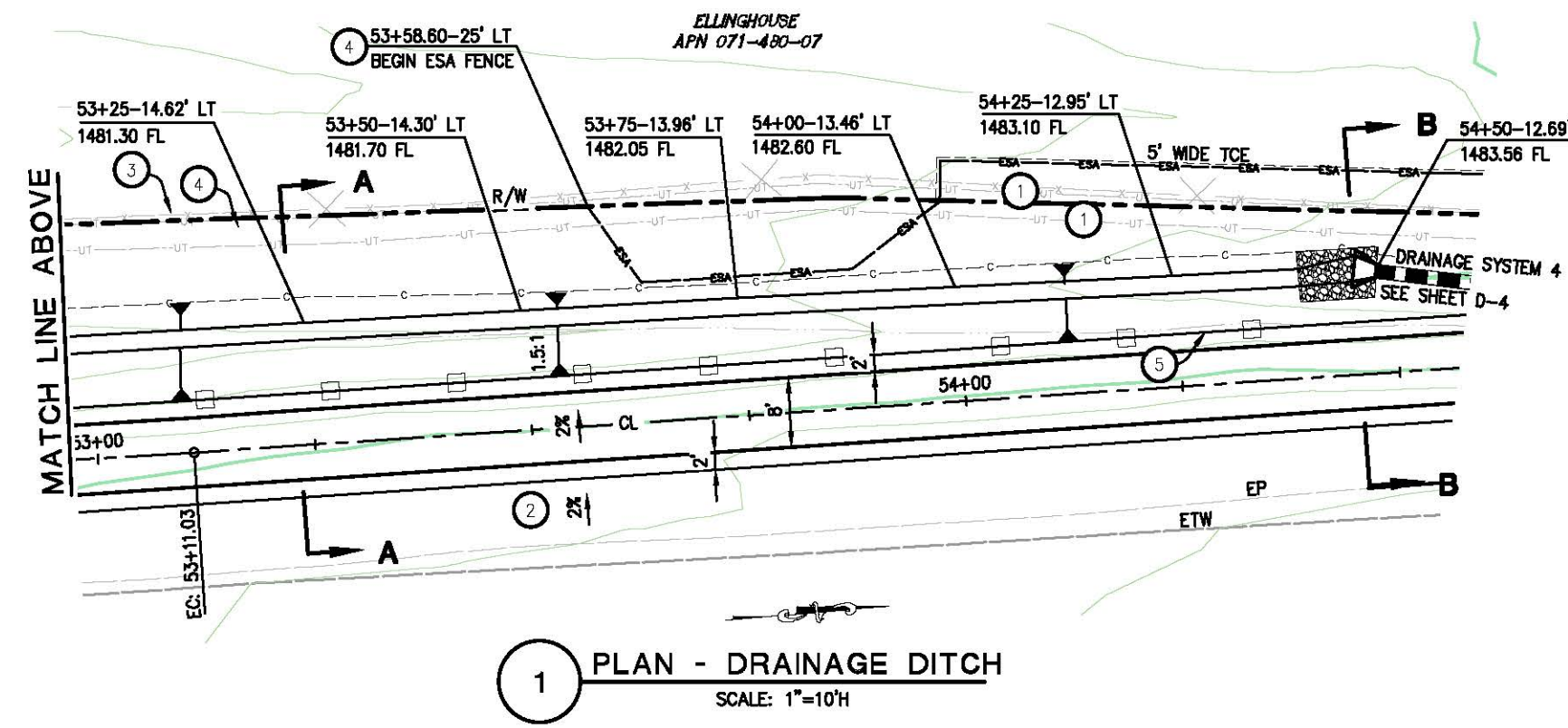
NORTHSIDE SCHOOL CLASS 1  
BIKE PATH - PHASE 2 (SR49)

SHEET  
C-7  
15 OF 35  
W.C. No. 72306

ORIGINAL SCALE IS IN INCHES  
 Drawing name: C:\Civil 3D\Projects\72306 Northside School Class 1 Bike Path - SR 49\CADD Files\Sheets\C-B.dwg Layout: Tab: C-B May 08 2013 11:54am Mikeey



**WARNING**  
 THE LOCATION OF EXISTING UNDERGROUND UTILITIES IS APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION.



**GENERAL NOTES:**

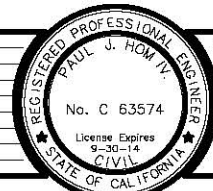
1. STATION/OFFSET CALLOUTS PER "49 PATH CL" ALIGNMENT

**CONSTRUCTION NOTES:**

- 1 APPROXIMATE LOCATION OF AT&T UNDERGROUND UTILITIES. CONTRACTOR SHALL VERIFY THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION.
- 2 SUBGRADE COMPACTED TO 90% 6" MIN. DEPTH UNDER 2' SHOULDER GRADE TO DRAIN FROM EXISTING EP TO BIKE PATH - 2% AND VARIES
- 3 EXISTING RW FENCE, PROTECT IN PLACE
- 4 PLACE ESA FENCING AROUND DEFINED WETLANDS AND GRADING, PER ENGINEER
- 5 SIMULATED WOOD FENCE, SEE SHEET C-9
- 6 WIDEN DITCH FROM 2' TO 4' AT PIPE OUTLET TO ACCOMMODATE FES
- 7 ADJUST SLOPE AT PIPE OUTLET TO ACCOMMODATE FES

CONSTRUCTION DETAILS  
 SCALE : AS NOTED

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
*Paul J. Hom*  
 REGISTERED CIVIL ENGINEER  
 05/08/13

DESIGNED: CG  
 DRAWN: RR  
 CHECKED: PH  
 DATE: 04/25/13  
 ROAD NUMBER: SR 49



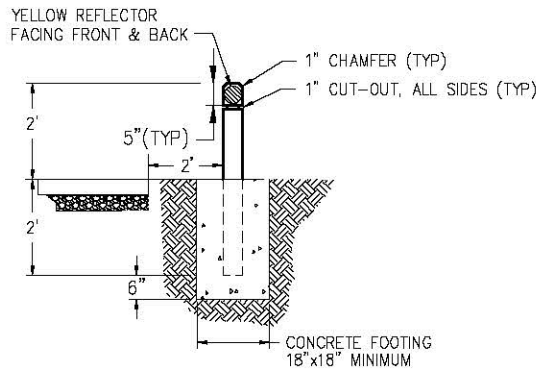
EL DORADO COUNTY  
 DEPARTMENT OF TRANSPORTATION

NORTHSIDE SCHOOL CLASS 1  
 BIKE PATH - PHASE 2 (SR49)

SHEET  
 C-8  
 16 OF 35  
 W.O. No. 72306

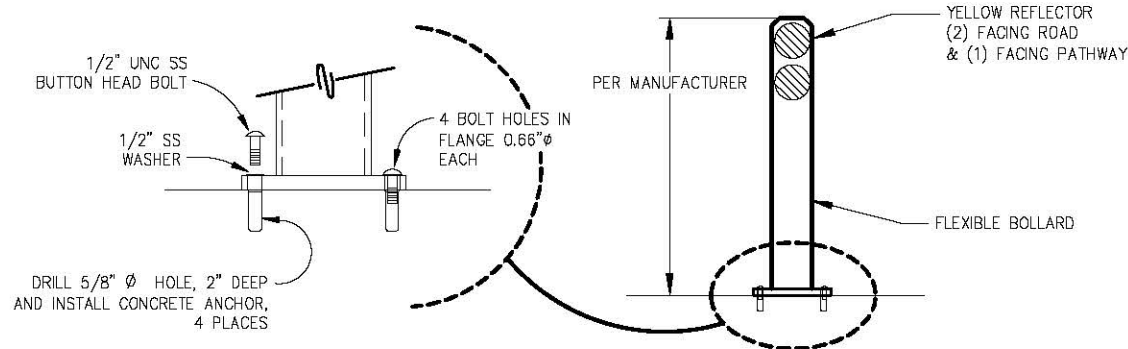


ORIGINAL SCALE: 1/8" = 1' IN INCHES  
 Drawing name: C:\Civil 3D Projects\72306 Northside School Class 1 Bike Path - SR 49\CADD Files\Sheets\C-9.dwg Layout: Tab: C-9 May 08 2013 11:56am SMOKEY  
 FOR REDUCED PLANS



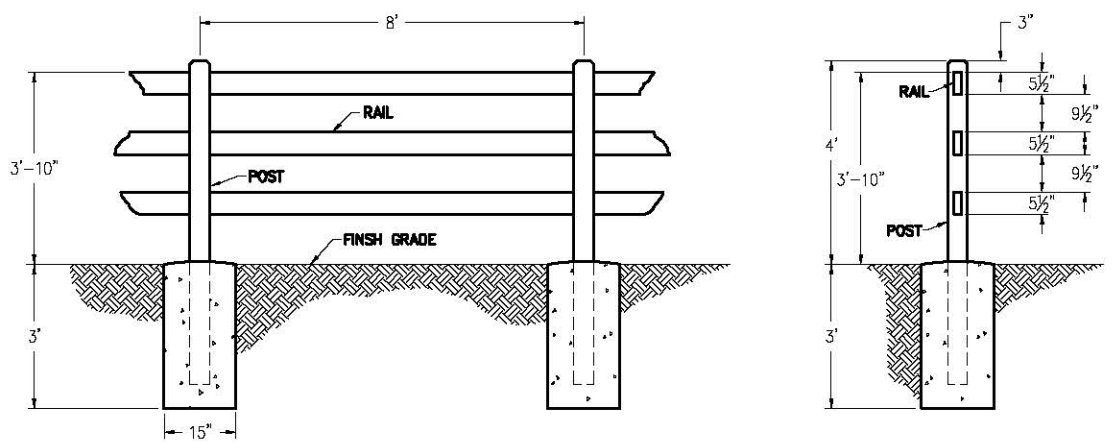
**EDGE BOLLARD DETAIL**

SCALE: 1" = 2'  
 STATION 9+90-4' LT  
 STATION 9+90-4' RT  
 STATION 61+75-6' LT  
 STATION 61+75-6' RT



**FLEXIBLE SURFACE MOUNTED CENTER BOLLARD DETAIL**

BCN FLEXIBLE BOLLARD, MODEL R-8303 OR EQUAL  
 N.T.S.  
 STATION 12+75  
 STATION 61+75

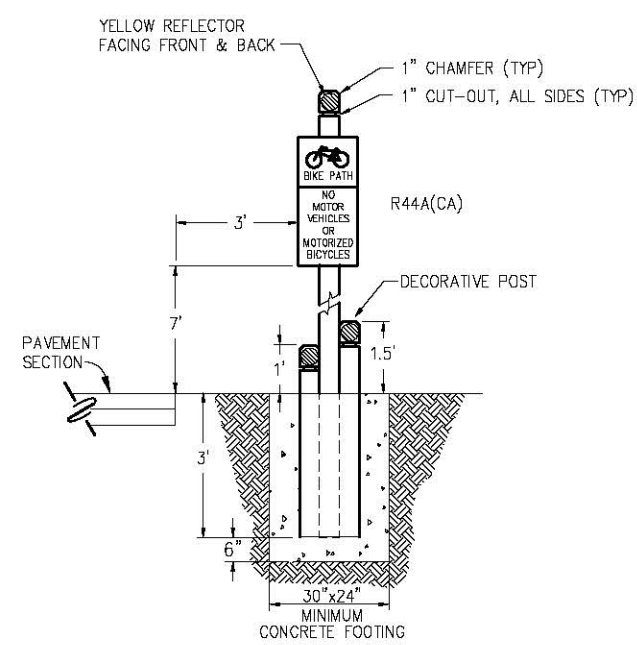


**4' SIMULATED WOOD FENCE DETAIL**

SCALE: 1" = 2'

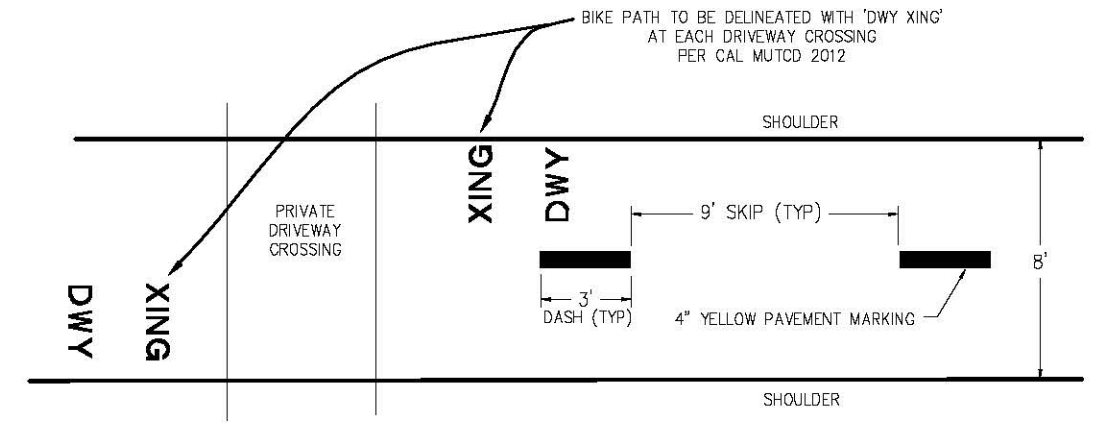
**GENERAL NOTES:**

1. ALL SIGNS SHALL BE CREATED AND INSTALLED PER THE 2012 CALIFORNIA MUTCD.
2. ALL POSTS (SIGNS AND EDGE BOLLARDS) SHALL BE 4"x4" PRESSURE TREATED DOUGLAS FIR.



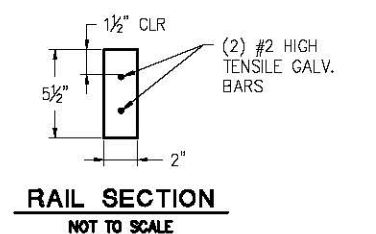
**SIGN POST DETAIL A**

SCALE: 1" = 2'  
 STATION 12+75-5' LT  
 STATION 61+75-7' LT



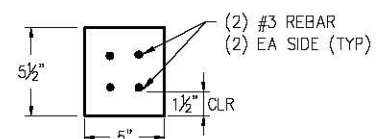
**PATHWAY CENTERLINE STRIPING DETAIL**

NTS  
 PATHWAY STRIPING PER CAL MUTCD 2012  
 STATION 9+76-62+09



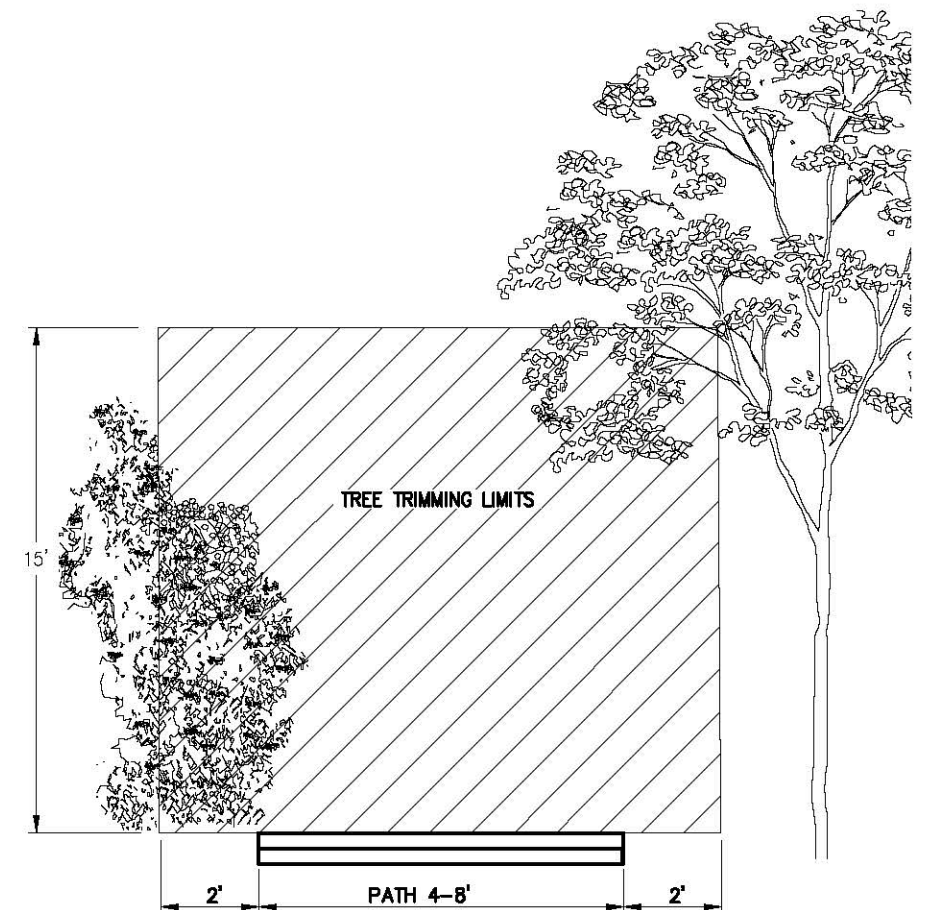
**RAIL SECTION**

NOT TO SCALE



**LINE POST**

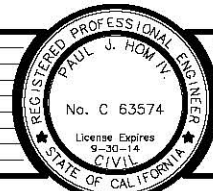
NOT TO SCALE



**TREE TRIMMING DETAIL**

NTS

CONSTRUCTION DETAILS  
 SCALE: AS NOTED



PREPARED UNDER THE SUPERVISION OF:  
*Paul J. Hom*  
 REGISTERED CIVIL ENGINEER  
 DATE: 05/08/13

DESIGNED: CG  
 DRAWN: RR  
 CHECKED: PH  
 DATE: 05/02/13  
 ROAD NUMBER: SR 49

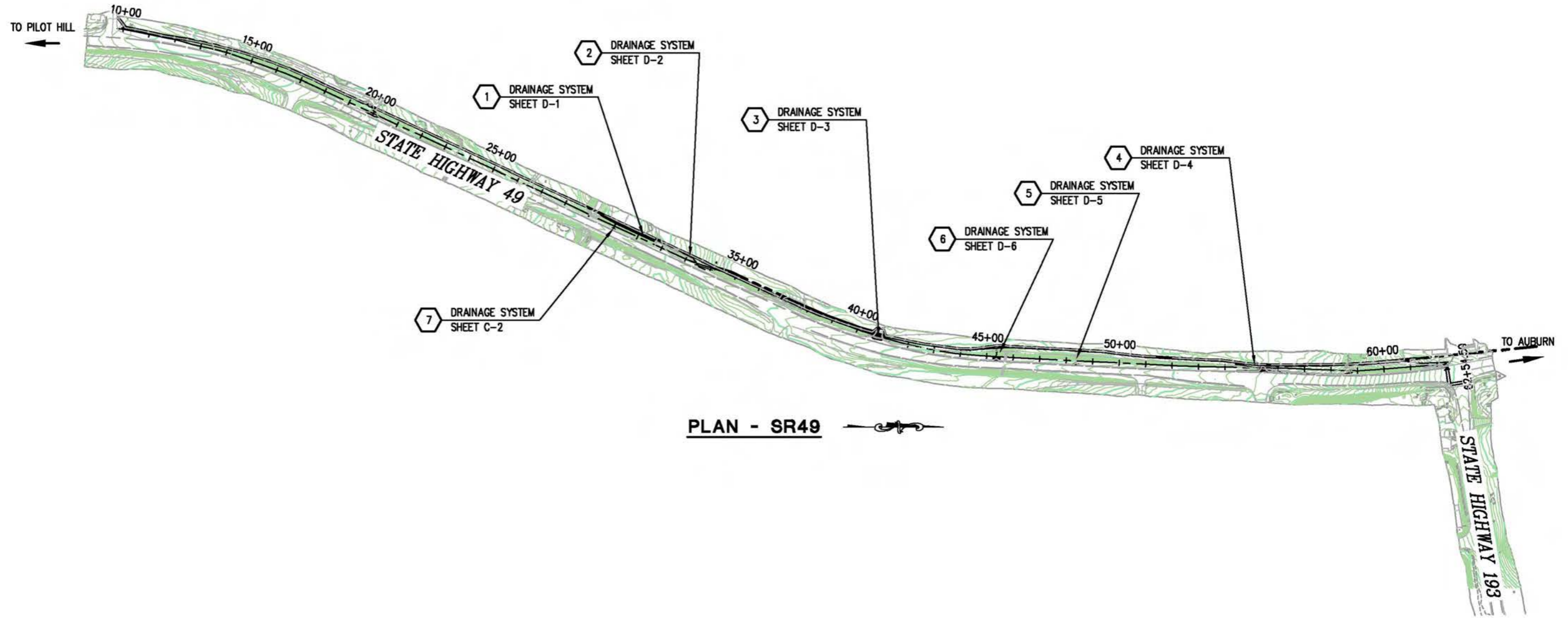


EL DORADO COUNTY  
 DEPARTMENT OF TRANSPORTATION

NORTHSIDE SCHOOL CLASS 1  
 BIKE PATH - PHASE 2 (SR49)

SHEET  
 C-9  
 17 OF 29  
 W.O. No. 72306

ORIGINAL SCALE IS IN INCHES  
 Drawing name: C:\Civil 3D Projects\72306 Northside School Class 1 Bike Path - SR 49\CADD Files\Sheets\0-INDEX.dwg Layout Tab: D-INDEX May 08, 2013 - 11:58am SMCvey  
 FOR REDUCED PLANS  
 REVISION  
 NUMBER DATE DESCRIPTION BY



PLAN - SR49

DRAINAGE INDEX  
SCALE : 1" = 200'



PREPARED UNDER THE SUPERVISION OF:  
*Paul J. Howitt*  
 REGISTERED CIVIL ENGINEER  
 DATE: 05/08/13

DESIGNED: RR  
 DRAWN: RR  
 CHECKED: PH  
 DATE: 04/25/13  
 ROAD NUMBER: SR 49

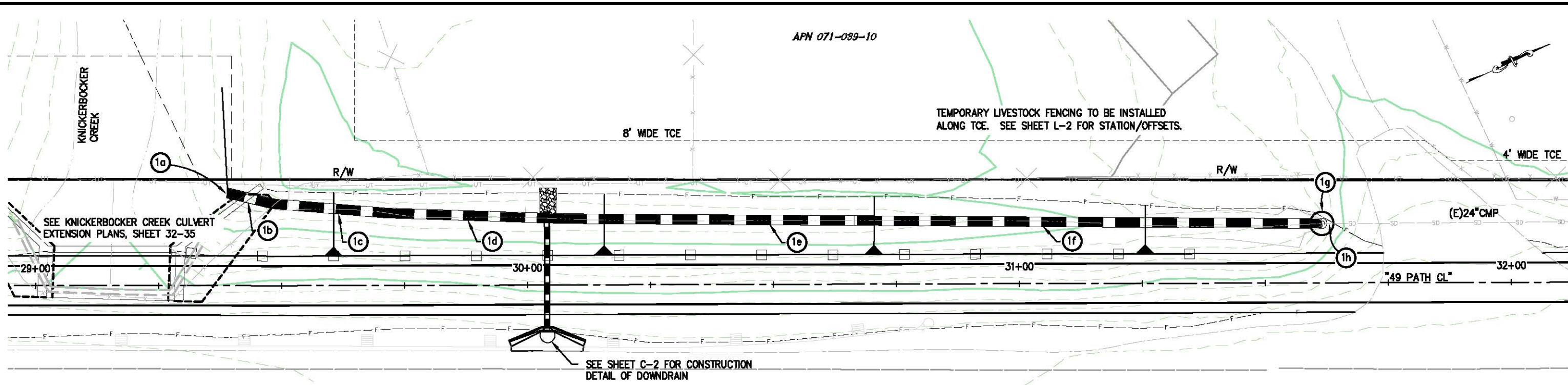


EL DORADO COUNTY  
DEPARTMENT OF TRANSPORTATION

NORTHSIDE SCHOOL CLASS 1  
BIKE PATH - PHASE 2 (SR49)

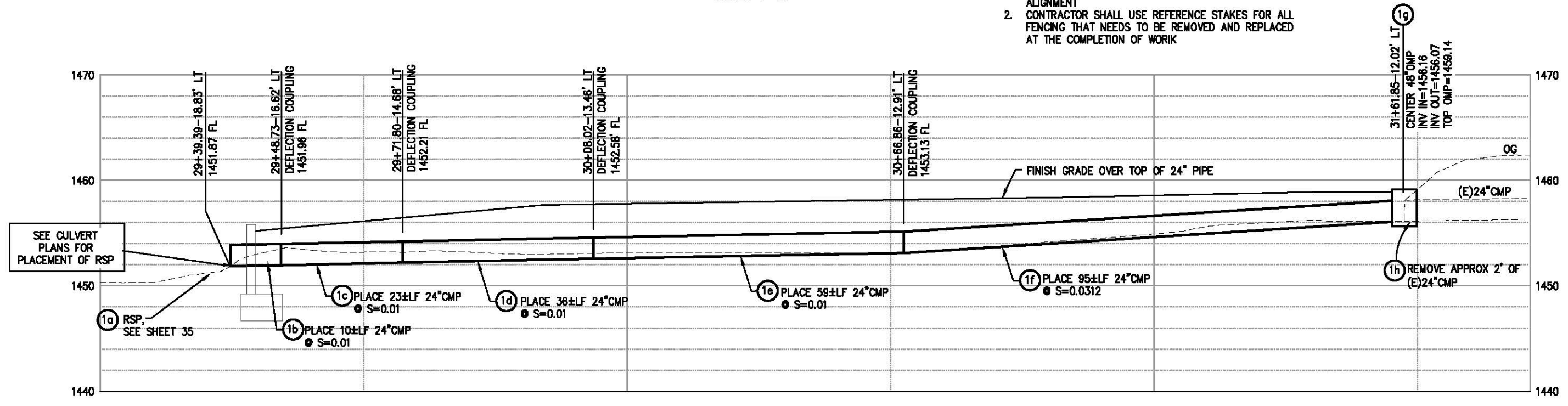
SHEET  
D-INDEX  
18 OF 35  
W.O. No. 72306

ORIGINAL SCALE: 1/8" = 1' IN INCHES  
 Drawing name: C:\Civil 3D\Projects\72306 Northside School Class 1 Bike Path - SR 49\CADD Files\Sheets\0-1.dwg Layout Tab: D-1 May 08 2013 12:07pm Mikevey  
 FOR REDUCED PLANS  
 2  
 1  
 0



**PLAN - DRAINAGE SYSTEM 1**  
SCALE: 1"=10'

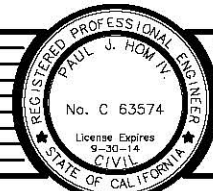
- GENERAL NOTES:**
1. STATION/OFFSET CALLOUTS PER "49 PATH CL" ALIGNMENT
  2. CONTRACTOR SHALL USE REFERENCE STAKES FOR ALL FENCING THAT NEEDS TO BE REMOVED AND REPLACED AT THE COMPLETION OF WORK



**PROFILE - DRAINAGE SYSTEM 1**  
SCALE: 1"=10'H,V

**DRAINAGE SYSTEM 1**  
SCALE : AS NOTED

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
*Paul J. Horn*  
 REGISTERED CIVIL ENGINEER  
 DATE: 05/08/13

DESIGNED: CG  
 DRAWN: RR  
 CHECKED: PH  
 DATE: 04/25/13  
 ROAD NUMBER: SR 49



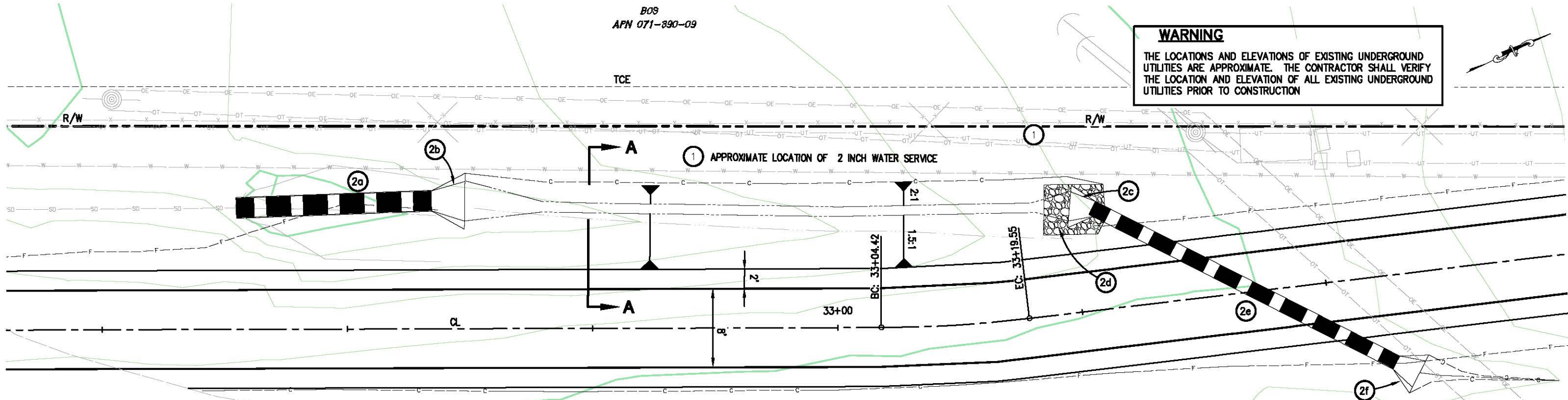
**EL DORADO COUNTY**  
 DEPARTMENT OF TRANSPORTATION

**NORTHSIDE SCHOOL CLASS 1**  
**BIKE PATH - PHASE 2 (SR49)**

SHEET  
 D-1  
 19 OF 35  
 W.O. No. 72306

BOS  
APN 071-890-09

**WARNING**  
THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION



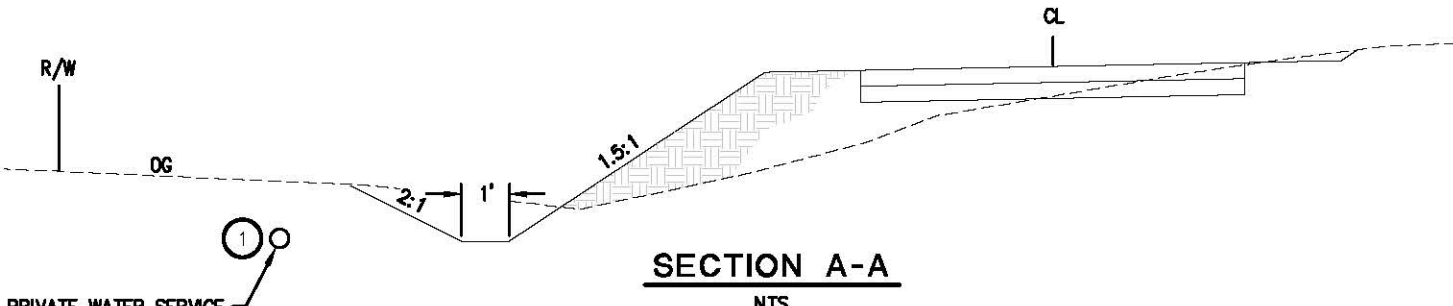
PLAN - DRAINAGE SYSTEM 2  
SCALE: 1"=5'

**GENERAL NOTES:**

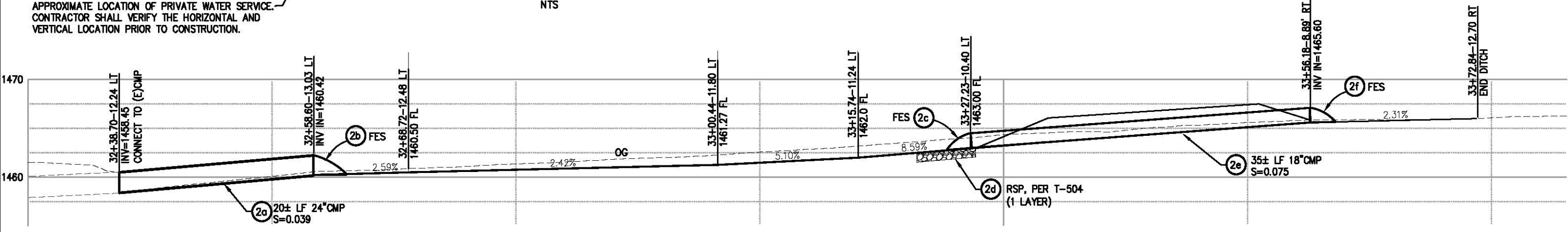
1. STATION/OFFSET CALLOUTS ARE PER "49 PATH CL" ALIGNMENT
2. CONTRACTOR SHALL REMOVE ANY DAMAGED PORTION OF EXISTING CULVERT TO PROVIDE A CLEAN UNIFORM END. CONNECT NEW PIPE WITH NEOPRENE GASKETS AND BAND COUPLERS.

**CONSTRUCTION NOTES:**

- 1 UNDERGROUND AT&T & PRIVATE WATER SERVICE CONTRACTOR SHALL VERIFY VERTICAL AND HORIZONTAL LOCATION PRIOR TO CONSTRUCTION



APPROXIMATE LOCATION OF PRIVATE WATER SERVICE. CONTRACTOR SHALL VERIFY THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION.



PROFILE - DRAINAGE SYSTEM 2  
SCALE: 1"=5H,V

DRAINAGE SYSTEM 2  
SCALE : AS NOTED

ORIGINAL SCALE IS IN INCHES  
Drawing name: C:\Civil 3D Projects\72306 Northside School Class 1 Bike Path - SR 49\CADD Files\Sheets\0-2.dwg Layout: Tab: D-2 May 08 2013 12:16pm S:\mceve

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
*Paul J. Hom*  
REGISTERED CIVIL ENGINEER  
DATE: 05/08/13

DESIGNED: CG  
DRAWN: RR  
CHECKED: PH  
DATE: 04/25/13  
ROAD NUMBER: SR 49

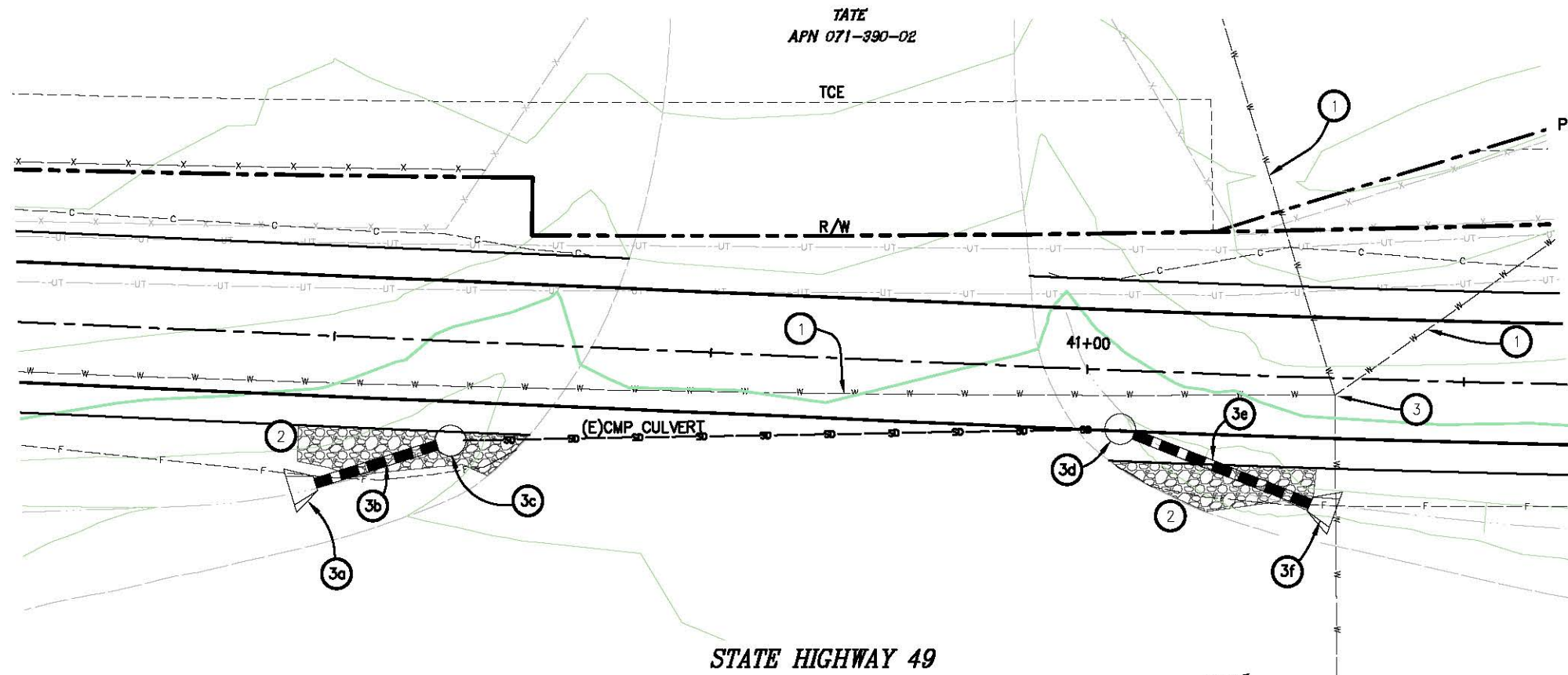


EL DORADO COUNTY  
DEPARTMENT OF TRANSPORTATION

NORTHSIDE SCHOOL CLASS 1  
BIKE PATH - PHASE 2 (SR49)

SHEET  
D-2  
20 OF 35  
W.O. No. 72306

ORIGINAL SCALE IS IN INCHES  
 Drawing name: C:\Civil\_3D\Projects\72306 Northside School Class 1 Bike Path - SR 49\CADD Files\Sheets\0-3.dwg Layout Tab: D-3 May 08, 2013 12:21pm SMevey



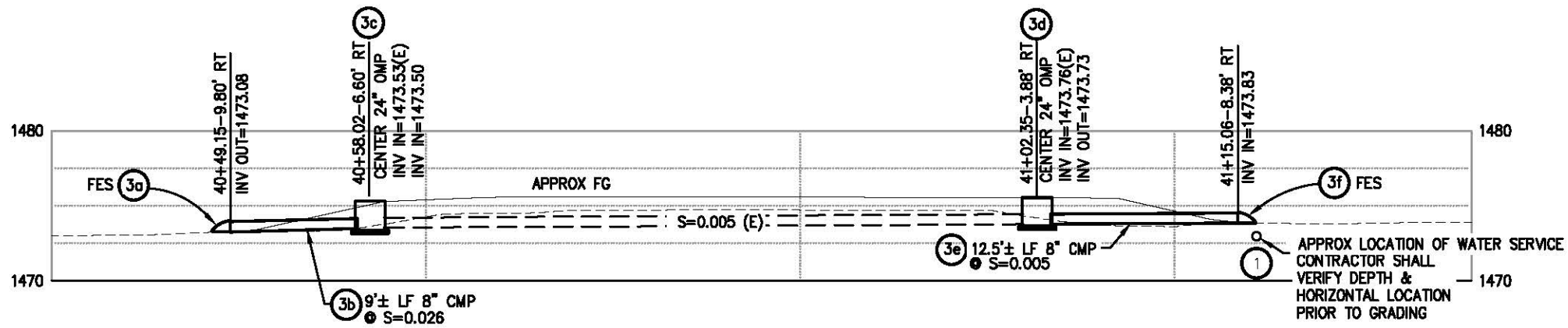
**STATE HIGHWAY 49**  
**PLAN - DRAINAGE SYSTEM 3**  
 SCALE: 1"=5'

**GENERAL NOTES:**

1. STATION/OFFSET CALLOUTS ARE PER "49 PATH CL" ALIGNMENT

**CONSTRUCTION NOTES:**

- 1 PRIVATE WATER SERVICE CONTRACTOR SHALL VERIFY VERTICAL AND HORIZONTAL LOCATION PRIOR TO CONSTRUCTION
- 2 RSP, SEE SHEET C-6
- 3 GDPUD WATER METERS, (3) PROTECT IN PLACE METERS SHALL BE ADJUSTED TO FINISH GRADE OF PATH

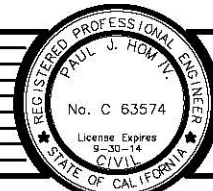


**PROFILE - DRAINAGE SYSTEM 3**  
 SCALE: 1"=5'

**NOTE:**  
 UNDERGROUND UTILITIES.  
 CONTRACTOR SHALL VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. THIS PLAN IS ACCURATE FOR DRIVEWAY CROSSING ONLY.

DRAINAGE SYSTEM 3  
 SCALE : AS NOTED

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF :  
*Paul J. Hom*  
 REGISTERED CIVIL ENGINEER  
 DATE: 05/08/13

DESIGNED: CG  
 DRAWN: RR  
 CHECKED: PH  
 DATE: 04/28/13  
 ROAD NUMBER: SR 49

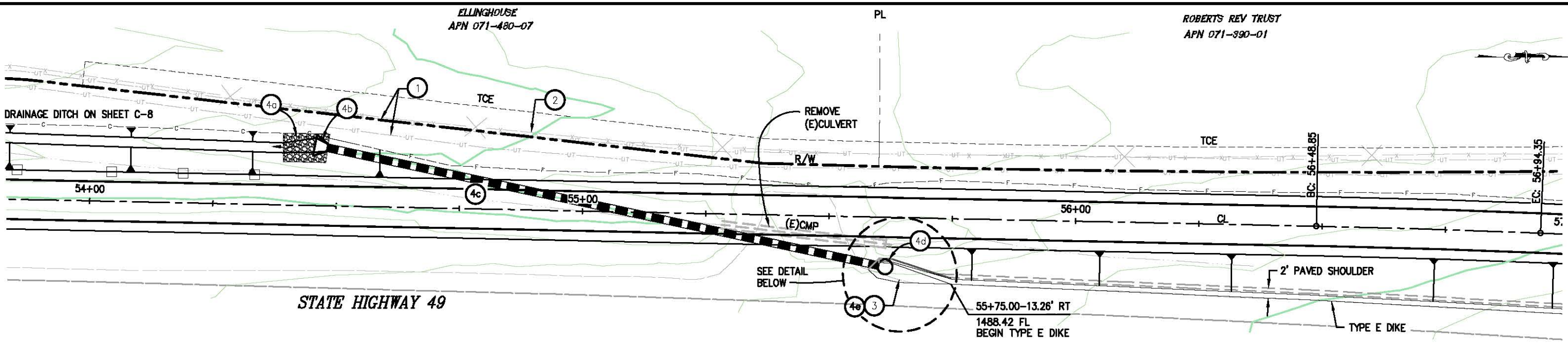


**EL DORADO COUNTY**  
**DEPARTMENT OF TRANSPORTATION**

**NORTHSIDE SCHOOL CLASS 1**  
**BIKE PATH - PHASE 2 (SR49)**

SHEET  
**D-3**  
 21 OF 35  
 W.C. No. 72306

ORIGINAL SCALE IS IN INCHES  
 Drawing name: C:\Civil 3D\Projects\72306 Northside School Class 1 Bike Path - SR 49\CADD Files\Sheets\D-4.dwg  
 Layout Tab: D-4, May 08, 2013 - 12:26pm, Smevey  
 FOR REDUCED PLANS



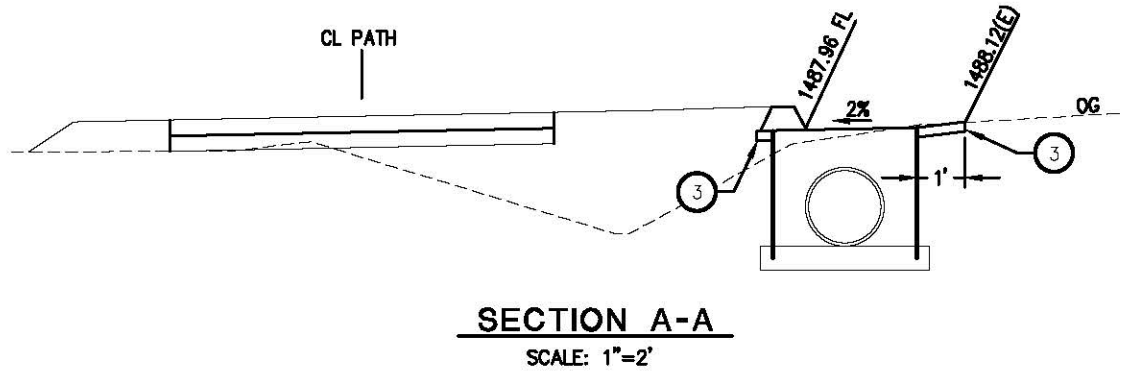
**PLAN - DRAINAGE SYSTEM 4**  
SCALE: 1"=10'

**GENERAL NOTES:**

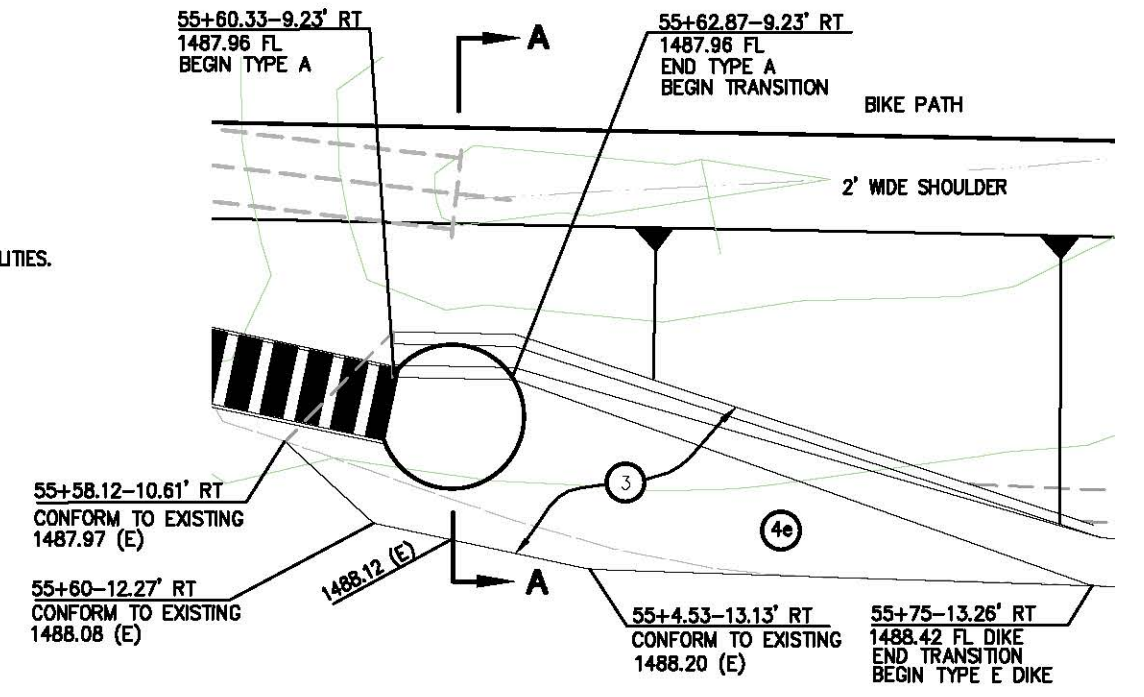
1. STATION/OFFSET CALLOUTS ARE PER "49 PATH CL" ALIGNMENT

**CONSTRUCTION NOTES:**

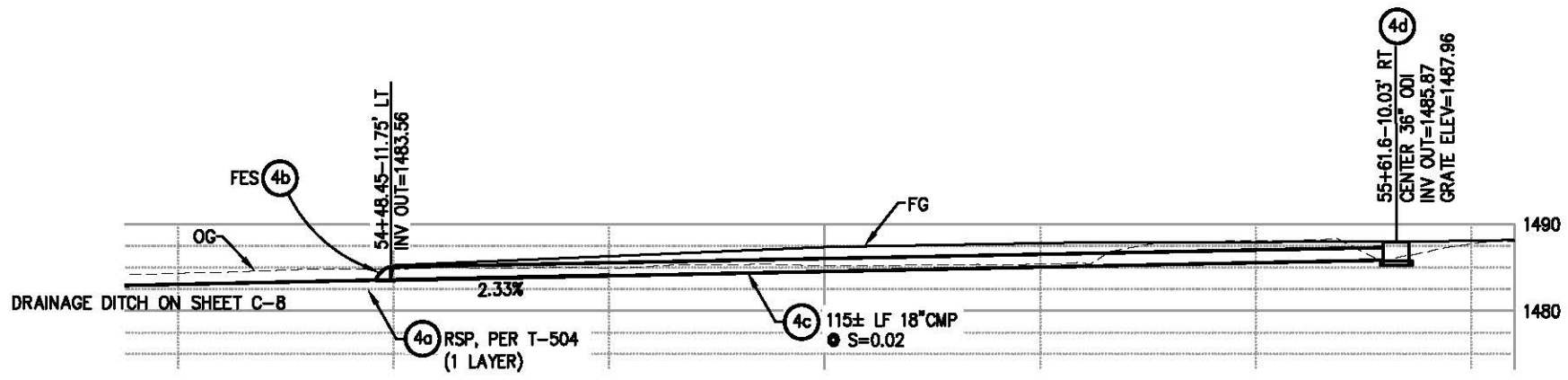
- ① APPROXIMATE LOCATION OF AT&T UNDERGROUND UTILITIES. CONTRACTOR SHALL VERIFY THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION.
- ② EXISTING FENCE, PROTECT IN PLACE
- ③ 0.20' HMA OVER COMPACTED NATIVE



**SECTION A-A**  
SCALE: 1"=2'



**DETAIL**  
TYPE ODI INLET PER D75A  
STEEL PIPE INLET w/36 RX GRATE AND  
RAISED OPENING AT HMA DIKE FLOWLINE  
SCALE: 1"=2'



**PROFILE - DRAINAGE SYSTEM 4**  
SCALE: 1"=10'H,V

**DRAINAGE SYSTEM 4**  
SCALE : AS NOTED

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
*Paul J. Hom*  
 REGISTERED CIVIL ENGINEER  
 05/08/13

DESIGNED: CG  
 DRAWN: RR  
 CHECKED: CG  
 DATE: 04/28/13  
 ROAD NUMBER: SR 49

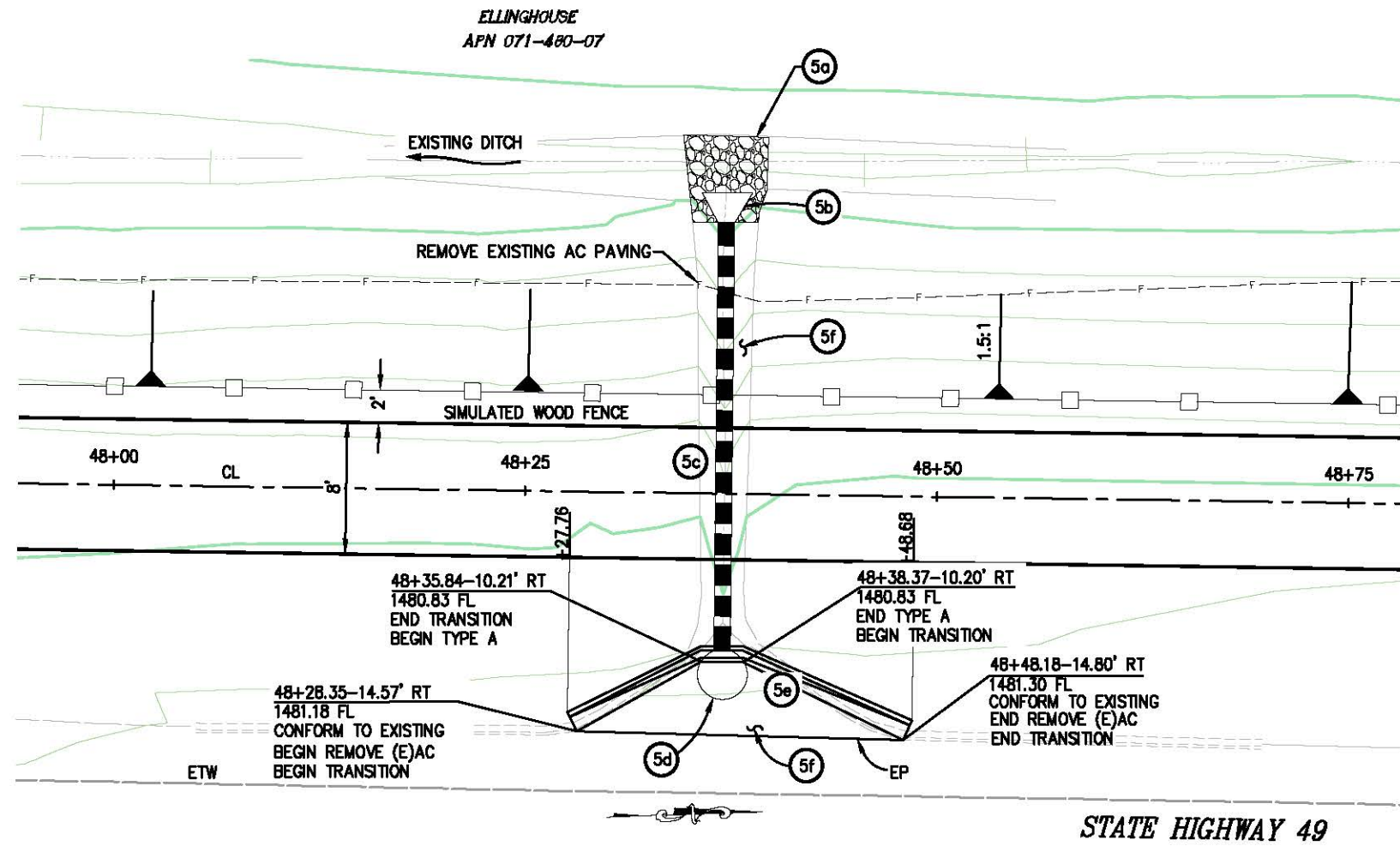


**EL DORADO COUNTY**  
DEPARTMENT OF TRANSPORTATION

**NORTHSIDE SCHOOL CLASS 1**  
BIKE PATH - PHASE 2 (SR49)

SHEET  
D-4  
22 OF 35  
W.C. No. 72306

ORIGINAL SCALE IS IN INCHES  
 Drawing name: C:\Civil 3D Projects\72306 Northside School Class 1 Bike Path - SR 49\CADD Files\Sheets\0-5.dwg Layout: Tab: D-5 May 08, 2013 12:32pm SMevey  
 FOR REDUCED PLANS  
 2  
 1  
 0



**PLAN - DRAINAGE SYSTEM 5**

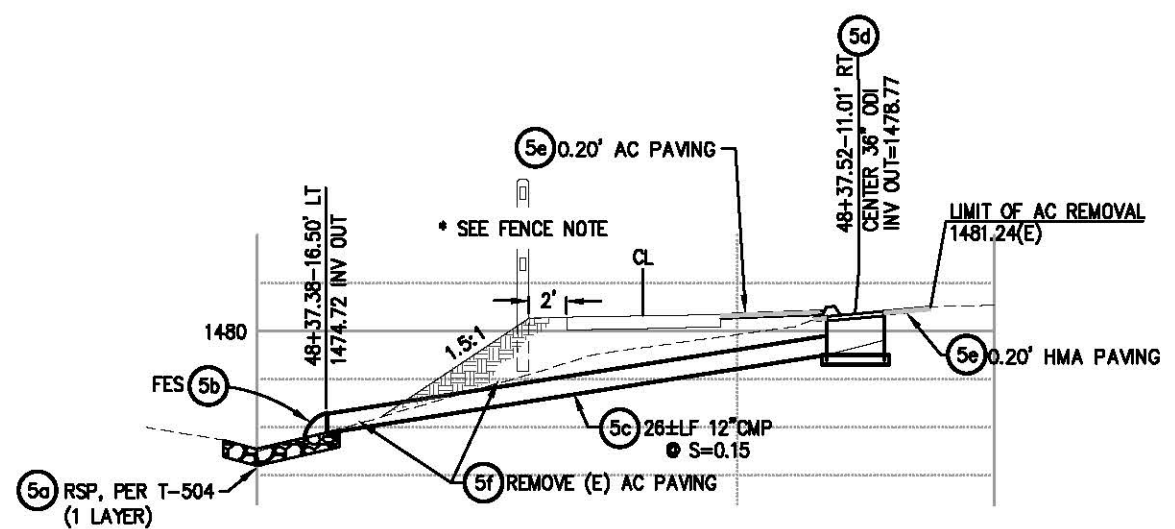
TYPE ODI INLET PER D75A  
 STEEL PIPE INLET w/36" RX GRATE AND  
 RAISED OPENING AT HMA DIKE FLOWLINE  
 SCALE: 1"=5'

**GENERAL NOTES:**

1. STATION/OFFSETS PER "49 PATH CL" ALIGNMENT
2. REMOVAL OF EXISTING DIKE AND PAVEMENT TO THE LIMIT LINE AS SHOWN. MINIMUM 0.20' THICK AC PAVEMENT FOR NEW TAPER AND AREA CALLED OUT AS (5e)

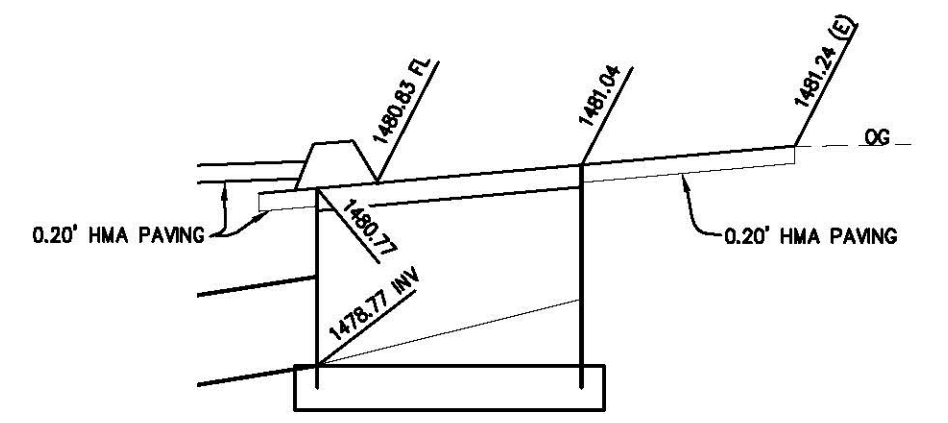
**LEGEND:**

- 0.20' HMA PAVING
- SIMULATED WOOD FENCE (SW), SEE SHEET C-9. FENCE LINETYPE IS GRAPHIC ONLY AND DOES NOT DELINEATE ACTUAL POST LOCATION



**PROFILE - DRAINAGE SYSTEM 5**

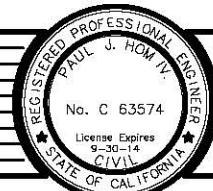
SCALE: 1"=5'H,V



**DETAIL - GRATE ELEV**

NTS

DRAINAGE SYSTEM 5  
SCALE : AS NOTED



PREPARED UNDER THE SUPERVISION OF:  
**Paul J. Hom**  
 REGISTERED CIVIL ENGINEER  
 DATE: 05/08/13

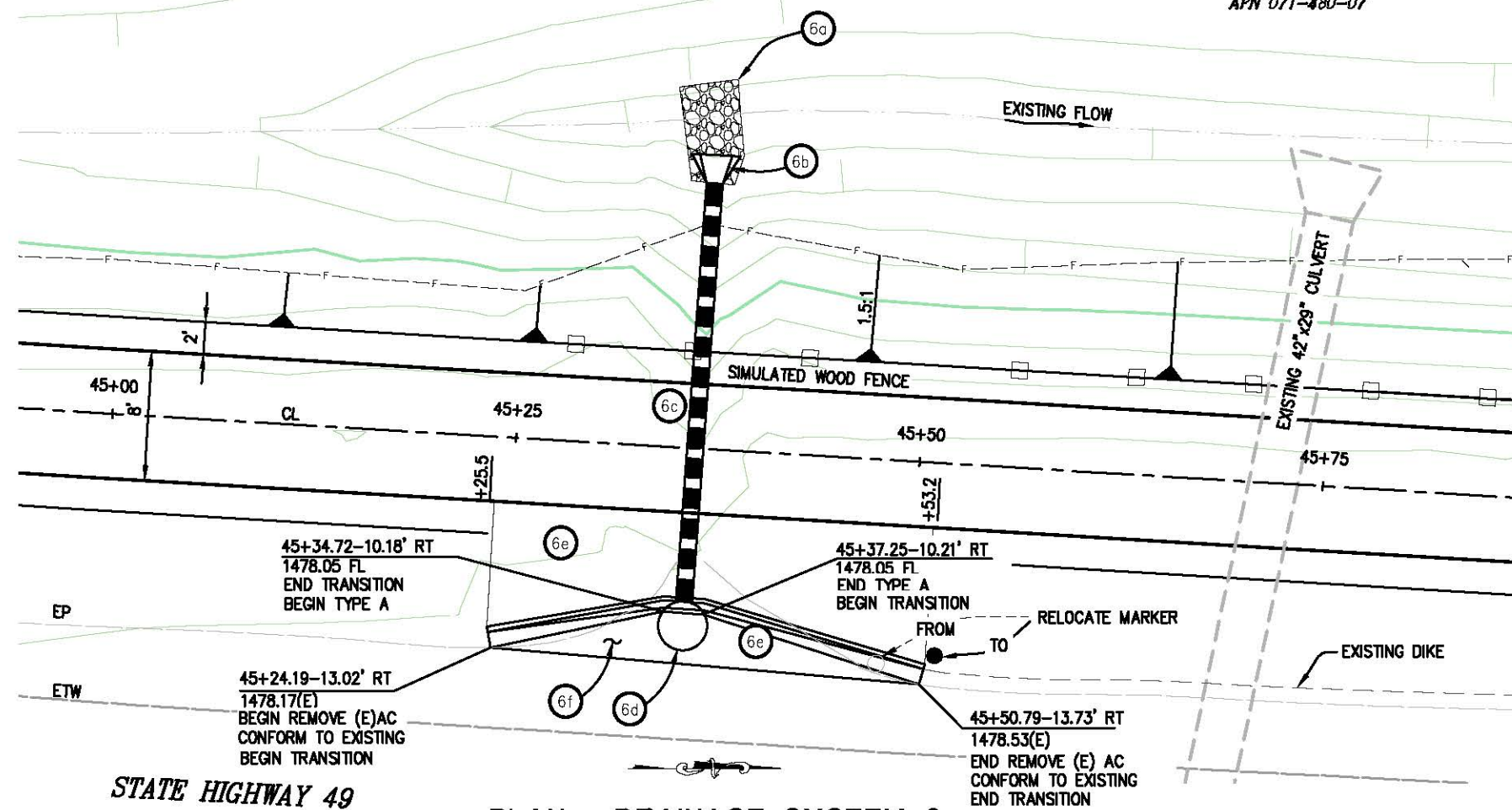
DESIGNED: CG  
 DRAWN: RR  
 CHECKED: PH  
 DATE: 05/03/13  
 ROAD NUMBER: SR 49



EL DORADO COUNTY  
 DEPARTMENT OF TRANSPORTATION

NORTHSIDE SCHOOL CLASS 1  
 BIKE PATH - PHASE 2 (SR49)

SHEET  
 D-5  
 23 OF 35  
 W.O. No. 72306



STATE HIGHWAY 49

**PLAN - DRAINAGE SYSTEM 6**

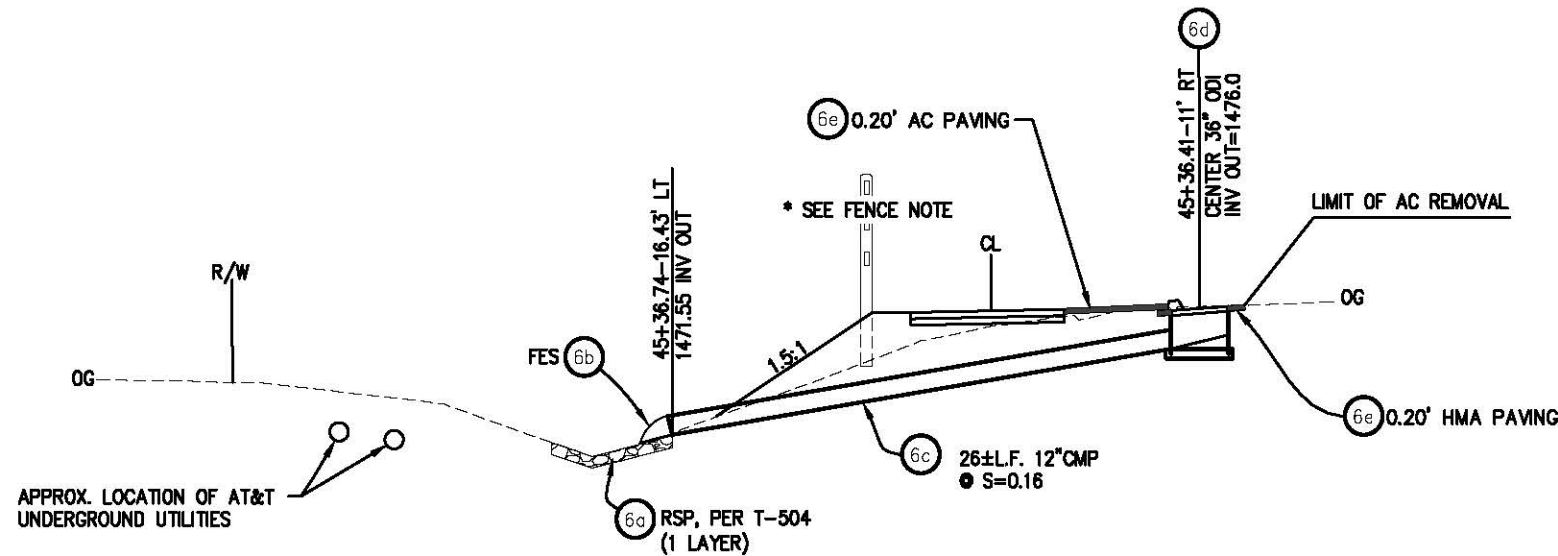
TYPE ODI INLET PER D75A  
STEEL PIPE INLET w/36" RX GRATE AND RAISED  
OPENING AT HMA DIKE FLOWLINE  
SCALE: 1"=5'

**GENERAL NOTES:**

1. STATION/OFFSETS PER "49 PATH CL" ALIGNMENT
2. REMOVAL OF EXISTING DIKE AND PAVEMENT TO THE LIMIT LINE AS SHOWN. MINIMUM 0.20' THICK AC PAVEMENT FOR NEW TAPER AND AREA CALLED OUT AS 6e

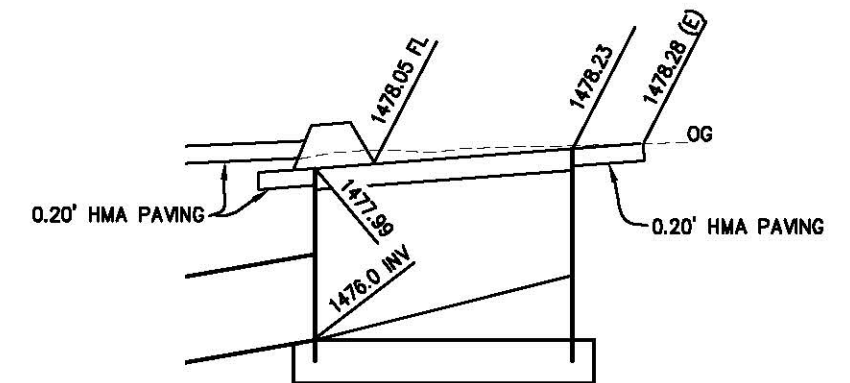
**LEGEND:**

- 0.20' HMA PAVING
- SIMULATED WOOD FENCE (SW), SEE SHEET C-9. FENCE LINETYPE IS GRAPHIC ONLY AND DOES NOT DELINEATE ACTUAL POST LOCATION



**PROFILE - DRAINAGE SYSTEM 6**

SCALE: 1"=5'H,V



**DETAIL- GRATE ELEV**

NTS

DRAINAGE SYSTEM 6  
SCALE : AS NOTED

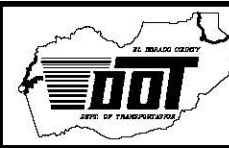
ORIGINAL SCALE IS IN INCHES  
Drawing name: C:\Civil 3D Projects\72306 Northside School Class 1 Bike Path - SR 49\CADD Files\Sheets\0-6.dwg Layout: Tab: D-6 May 08, 2013 12:42pm SMevey

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
*Paul J. Horn*  
REGISTERED CIVIL ENGINEER  
DATE: 05/08/13

DESIGNED: CG  
DRAWN: RR  
CHECKED: PH  
DATE: 05/03/13  
ROAD NUMBER: SR 49



EL DORADO COUNTY  
DEPARTMENT OF TRANSPORTATION

NORTHSIDE SCHOOL CLASS 1  
BIKE PATH - PHASE 2 (SR49)

SHEET  
D-6  
24 of 35  
W.O. No. 72306

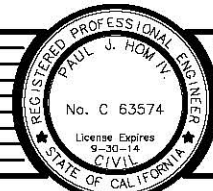


ORIGINAL SCALE: 1/8" = 1' IN INCHES  
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 FOR REDUCED PLANS  
 2  
 1  
 0

DRAINAGE PLAN SHEET NO.	DRAINAGE SYSTEM	DRAINAGE ITEM	8" CMP	12" CMP	18" CMP	24" CMP	8" FES	12" FES	18" FES	24" FES	24" OMP	48" OMP	36" ODI	RSP	0.20' AC (TYPE A)	REMOVE 24" CMP	REMOVE AC [N]	DESCRIPTION	STATION/OFFSET	
			LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	CY	TON	LF	SF			
D-1	1	a												1.5				RSP		
		b				10													S=0.01	
		c				23													S=0.01	
		d				36													S=0.01	
		e				59													S=0.01	
		f				95													S=0.031	
		g										1							OMP	31+61.85-12.02' LT
		h															2			
D-2	2	a			20													S=0.039		
		b								1									FES	32+58.60-13.03' LT
		c								1									FES	33+27.23-10.40' LT
		d													1.5				RSP	
		e			35														S=0.075	
		f								1										FES
D-3	3	a					1												FES	40+49.15-9.80' RT
		b	9																S=0.026	
		c									1				1.5				OMP	40+58.02-6.60' RT
		d									1				1.5				OMP	41+02.35-3.88' RT
		e	13																S=0.005	
		f						1												FES
D-4	4	a												1.5					RSP	
		b								1									FES	54+48.45-11.75' LT
		c			115														S=0.023	
		d											1						ODI	55+61.60-10.03' RT
		e													0.5				AC PAVING	
D-5	5	a												1.5					RSP	
		b								1									FES	48+37.38-16.50' LT
		c		26															S=0.15	
		d										1							ODI	48+37.52-11.01' RT
		e													2.4				AC PAVING	
		f															170			EXISTING AC OVERSIDE DRAIN
D-6	6	a												1.5					RSP	
		b																	FES	45+36.74-16.43' LT
		c		26															S=0.16	
		d										1							ODI	45+36.41-11.0' RT
		e													2.4				AC PAVING	
C-2	7	a												1.5					RSP	
		b			25														S=0.146	
		c										1							ODI	30+04-10.24' RT
		d													.4				AC PAVING	
		e															70			EXISTING AC OVERSIDE DRAIN
TOTAL			22	52	175	243	2	2	3	1	2	1	4	12	*5.7	2	336			

[N] NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY

DRAINAGE QUANTITIES SCALE : NONE



PREPARED UNDER THE SUPERVISION OF:  
*Paul J. Hom*  
 REGISTERED CIVIL ENGINEER  
 DATE: 05/08/13

DESIGNED: CG  
 DRAWN: RR  
 CHECKED: PH  
 DATE: 05/08/13  
 ROAD NUMBER: SR 49

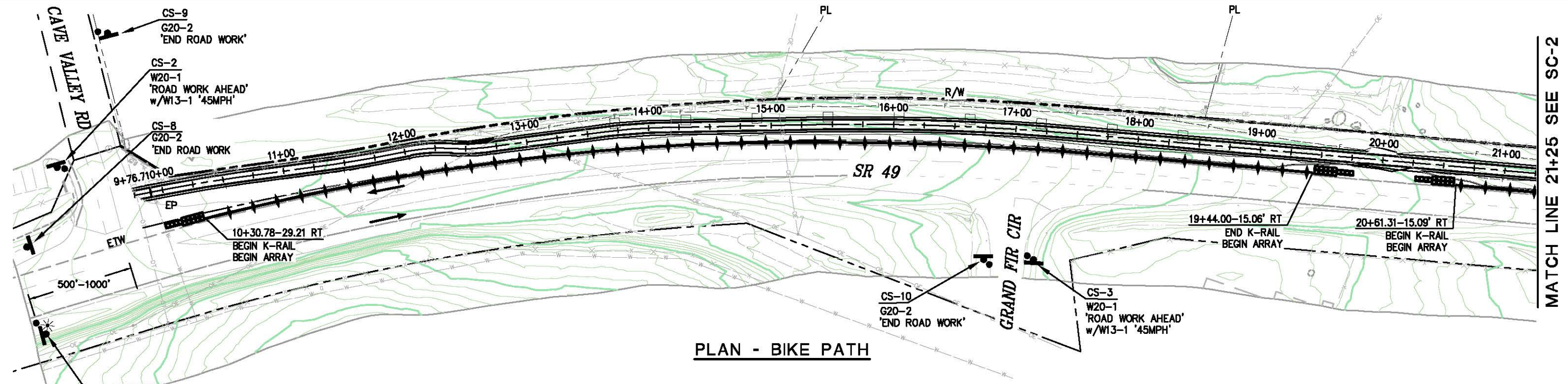


EL DORADO COUNTY  
 DEPARTMENT OF TRANSPORTATION

NORTHSIDE SCHOOL CLASS 1  
 BIKE PATH - PHASE 2 (SR49)

SHEET  
 D-7  
 25 OF 35  
 W.O. No. 72306

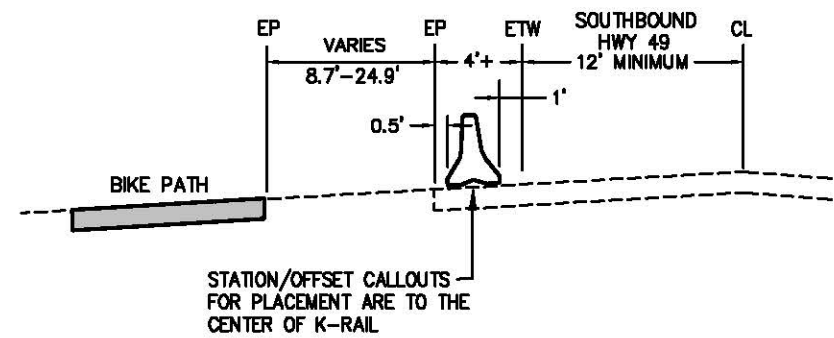
ORIGINAL SCALE IS IN INCHES  
 Drawing name: C:\Civil 3D Projects\72306 Northside School Class 1 Bike Path - SR 49\CADD Files\Sheets\SC-1.dwg Layout Tab: SC-1 May 08, 2013 12:48pm Mikevey  
 FOR REDUCED PLANS  
 REVISION



**PLAN - BIKE PATH**

500'-1000' SIGN SPACING PER T-13

1 PCMS ALL STAGES



**TYPICAL SECTION**  
K-RAIL PLACEMENT-ALL PHASES  
N.T.S.

**STAGE CONSTRUCTION NOTES:**

1. REFER TO SPECIAL PROVISIONS FOR TRAFFIC HANDLING & ACCESS REQUIREMENTS WITHIN THE WORK AREA.
2. MAINTAIN EXISTING SHOULDER AREA AS LONG AS POSSIBLE.
3. EXACT LOCATION OF CONSTRUCTION AREA SIGNS SHALL BE DETERMINED BY ENGINEER.
4. CONTRACTOR SHALL SUBMIT TRAFFIC CONTROL PLAN FOR ANY DETOURS AND CHANGES ON THE STAGE CONSTRUCTION PLANS TO THE ENGINEER FOR REVIEW AND WRITTEN APPROVAL PRIOR TO IMPLEMENTATION. CONTRACTOR TO COORDINATE ALL STAGE CONSTRUCTION AND TRAFFIC HANDLING WITH UTILITY RELOCATIONS.
5. MAINTAIN ACCESS TO ALL DRIVEWAYS.

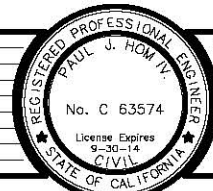
**LEGEND**

- K-RAIL
- CRASH CUSHION ARRAY TB14
- TEMPORARY SIGN
- PCMS PORTABLE CHANGABLE MESSAGE SIGN, ALL STAGES
- PCMS No.
- TUBULAR CHANNELIZER
- PORTABLE FLASHING BEACON
- FLOW OF TRAFFIC
- CS CONSTRUCTION SIGN NUMBER

PCMS No.	FIRST FLASH	SECOND FLASH
1	SLOW	ROAD WORK AHEAD
2	SLOW	ROAD WORK AHEAD

**GENERAL STAGE CONSTRUCTION NOTE**  
 THESE STAGE CONSTRUCTION PLANS ARE INTENDED TO SERVE AS A GUIDELINE IN ESTABLISHING TRAFFIC CONTROL AND CONSTRUCTION STAGING. SOME MODIFICATION OR ALTERATION MAY BE NEEDED TO ACCOMMODATE FIELD CONDITIONS AND TRAFFIC MOVEMENTS. THE CONTRACTOR SHALL OBTAIN PRIOR ENGINEERING APPROVAL IF ANY CHANGES OR DEVIATIONS FROM THESE PLANS ARE PROPOSED.

STAGE CONSTRUCTION



PREPARED UNDER THE SUPERVISION OF  
*Paul J. Horn*  
 REGISTERED CIVIL ENGINEER  
 DATE: 05/08/13

DESIGNED: CG  
 DRAWN: RR  
 CHECKED: PH  
 DATE: 04/26/13  
 ROAD NUMBER: SR 49



EL DORADO COUNTY  
 DEPARTMENT OF TRANSPORTATION

NORTHSIDE SCHOOL CLASS 1  
 BIKE PATH - PHASE 2 (SR49)

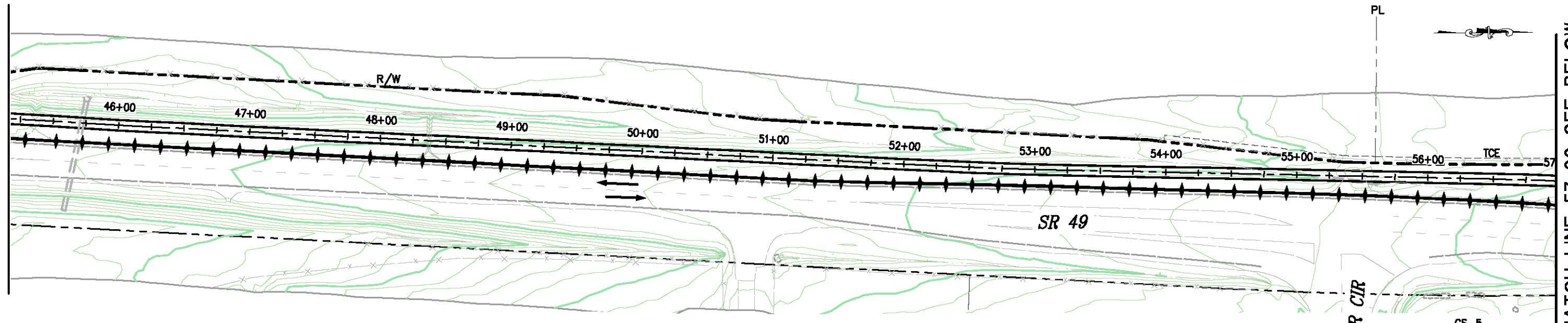
SHEET  
 SC-1  
 26 OF 35  
 W.O. No. 72306



ORIGINAL SCALE IS IN INCHES  
Drawing name: C:\Civil 3D Projects\72306 Northside School Class 1 Bike Path - SR 49\CADD Files\Sheets\SC-3.dwg Layout Tab: SC-3 May 08, 2013 1:01pm SMCvey










MATCH LINE 45+25 SEE SC-2

MATCH LINE 57+00 SEE BELOW



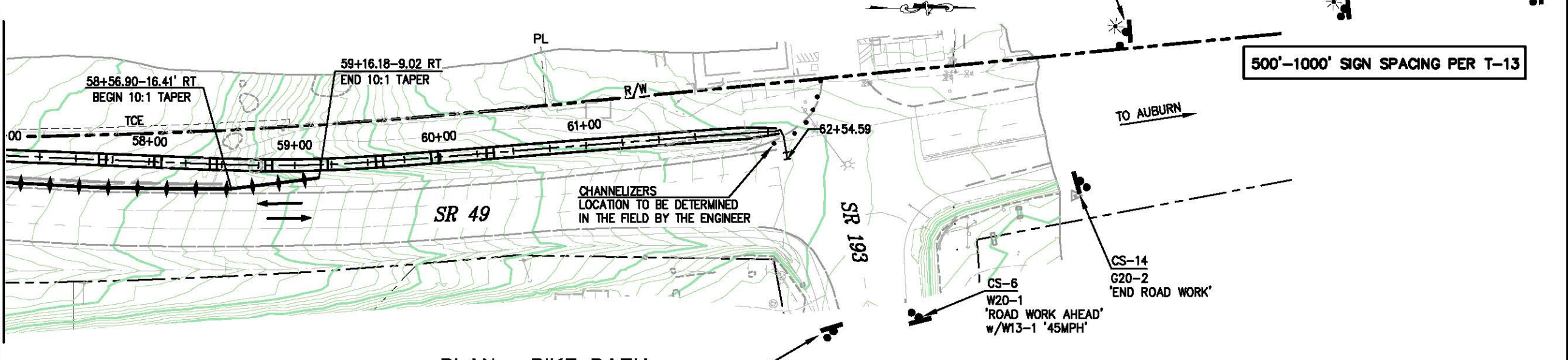
PLAN - BIKE PATH

**LEGEND**

-  K-RAIL
-  CRASH CUSHION ARRAY TB14
-  TEMPORARY SIGN
-  PORTABLE CHANGABLE MESSAGE SIGN
-  PCMS No.
-  TUBULAR CHANNELIZERS, 50' TYPICAL SPACING
-  PORTABLE FLASHING BEACON
-  FLOW OF TRAFFIC
-  CONSTRUCTION SIGN NUMBER

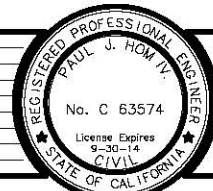
PCMS No.	FIRST FLASH	SECOND FLASH
1	SLOW	ROAD WORK AHEAD
2	SLOW	ROAD WORK AHEAD

MATCH LINE 57+00 SEE ABOVE



PLAN - BIKE PATH

STAGE CONSTRUCTION



PREPARED UNDER THE SUPERVISION OF  
*Paul J. Horn*  
REGISTERED CIVIL ENGINEER  
DATE: 05/08/13

DESIGNED: CG  
DRAWN: RR  
CHECKED: PH  
DATE: 04/28/13  
ROAD NUMBER: SR 49



EL DORADO COUNTY  
DEPARTMENT OF TRANSPORTATION

NORTHSIDE SCHOOL CLASS 1  
BIKE PATH - PHASE 2 (SR49)

SHEET  
SC-3  
28 OF 35  
W.O. No. 72306

ORIGINAL SCALE IS IN INCHES  
 Drawing name: C:\Civil 3D Projects\72306 Northside School Class 1 Bike Path - SR 49\CADD Files\Sheets\SC-4.dwg Layout Tab: SC-4 May 08, 2013 - 2:14pm SMevey  
 FOR REDUCED PLANS

CONSTRUCTION AREA SIGNS						
SIGN NO.	CONSTRUCTION STAGE	SIGN	CODE	PANEL SIZE INCHES	POST SIZE & LENGTH	INSTALL EA.
CS-1	ALL	ROAD WORK AHEAD	W20-1 w/ C17(CA)	36 x 36	4x4x12	1
CS-2	ALL	ROAD WORK AHEAD	W20-1 w/ C17(CA)	36 x 36	4x4x12	1
CS-3	ALL	ROAD WORK AHEAD	W20-1 w/ C17(CA)	36 x 36	4x4x12	1
CS-4	ALL	ROAD WORK AHEAD	W20-1 w/ C17(CA)	36 x 36	4x4x12	1
CS-5	ALL	ROAD WORK AHEAD	W20-1 w/ C17(CA)	36 x 36	4x4x12	1
CS-6	ALL	ROAD WORK AHEAD	W20-1 w/ C17(CA)	36 x 36	4x4x12	1
CS-7	ALL	ROAD WORK AHEAD	W20-1 w/ C17(CA)	36 x 36	4x4x12	1
CS-8	ALL	END ROAD WORK	G20-2	36 x 18	4x4x12	1
CS-9	ALL	END ROAD WORK	G20-2	36 x 18	4x4x12	1
CS-10	ALL	END ROAD WORK	G20-2	36 x 18	4x4x12	1
CS-11	ALL	END ROAD WORK	G20-2	36 x 18	4x4x12	1
CS-12	ALL	END ROAD WORK	G20-2	36 x 18	4x4x12	1
CS-13	ALL	END ROAD WORK	G20-2	36 x 18	4x4x12	1
CS-14	ALL	END ROAD WORK	G20-2	36 x 18	4x4x12	1
CS-15	ALL	RIGHT SHOULDER CLOSED	W21-5B	36 x 36	4x4x12	1
CS-16	ALL	RIGHT SHOULDER CLOSED	W21-5B	36 x 36	4x4x12	1
CS-17	ALL	ROAD NARROWS	W5-1	36 x 36	4x4x12	1



TEMPORARY CRASH CUSHIONS			
ARRAY TB14 PER T1B			
LOCATION	SR 49	ARRAY EA.	MODULE EA.
STA 10+30.78 RT		1	14
STA 19+44.00 RT		1	14
STA 20+61.31 RT		1	14
STA 25+95.57 RT		1	14
STA 27+11.99 RT		1	14
STA 31+37.63 RT		1	14
STA 32+54.46 RT		1	14
STA 33+95.88 RT		1	14
STA 41+55.30 RT		1	14
TOTAL		9	126

TEMPORARY CHANNELIZERS	
CHANNELIZERS-50' SPACING	
LOCATION-ALONG EP, SR 49	L.F.
34+37 TO 40+54	617

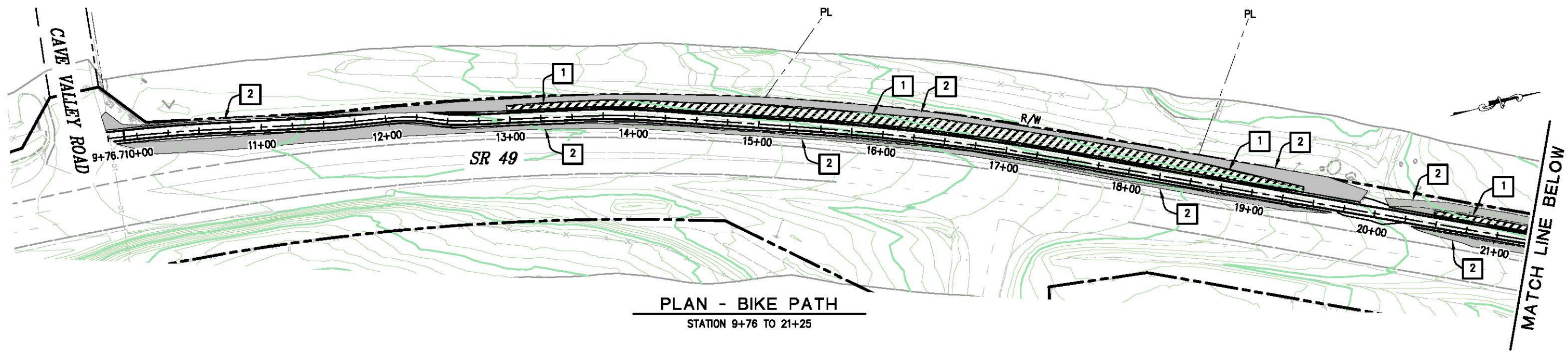
TEMPORARY RAIL	
TYPE K SHALL INCLUDE TOP MOUNTED REFLECTORS	
LOCATION-ALONG SR 49	L.F.
STA 10+30 - 19+45	915
STA 20+62 - 25+97	534
STA 27+13 - 27+55	42
STA 30+84 - 31+39	55
STA 32+56 - 33+97	141
STA 41+57 - 59+17	1766
TOTAL	3,453

**GENERAL STAGE CONSTRUCTION NOTE**  
 THESE STAGE CONSTRUCTION PLANS ARE INTENDED TO SERVE AS A GUIDELINE IN ESTABLISHING TRAFFIC CONTROL AND CONSTRUCTION STAGING. SOME MODIFICATION OR ALTERATION MAY BE NEEDED TO ACCOMMODATE FIELD CONDITIONS AND TRAFFIC MOVEMENTS. THE CONTRACTOR SHALL OBTAIN PRIOR ENGINEERING APPROVAL IF ANY CHANGES OR DEVIATIONS FROM THESE PLANS ARE PROPOSED.

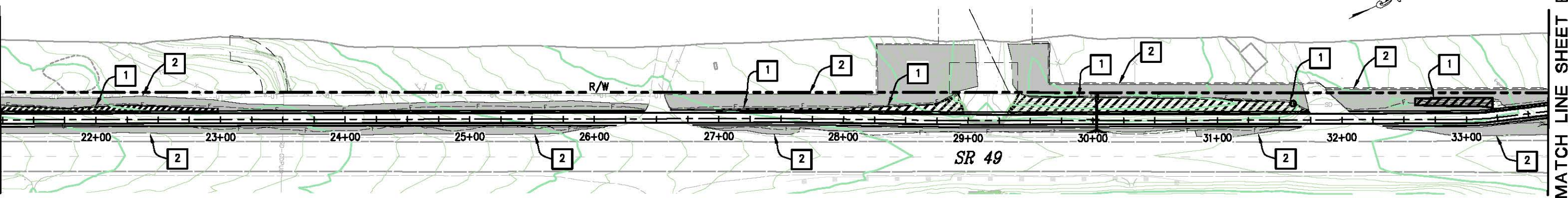
**STAGE CONSTRUCTION SIGNS**

REVISION NUMBER DATE DESCRIPTION BY	DESIGNED: CG CHECKED: PH ROAD NUMBER: SR 49	DRAWN: RR DATE: 04/29/13	 EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION	NORTHSIDE SCHOOL CLASS 1 BIKE PATH - PHASE 2 (SR49)	SHEET SC-4 29 OF 35 W.O. No. 72306
	PREPARED UNDER THE SUPERVISION OF:  Paul J. Hon REGISTERED CIVIL ENGINEER License Expires 9-30-14 DATE: 05/08/13				

ORIGINAL SCALE IS IN INCHES  
Drawing name: C:\Civil 3D Projects\72306 Northside School Class 1 Bike Path - SR 49\CADD Files\Sheets\EC-1.dwg Layout Tab: EC-1 May 08, 2013 1:11pm SMCvey



**PLAN - BIKE PATH**  
STATION 9+76 TO 21+25



**PLAN - BIKE PATH**  
STATION 21+25 TO 33+75

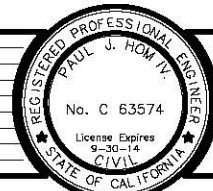
**NOTE:**  
SEE SECTION 21 OF THE SPECIAL PROVISIONS FOR SEED SPECIFICATIONS AND HYDROSEED APPLICATION RATES

**LEGEND**

1	CUT/FILL SLOPES 2:1 OR STEEPER - ROLLED EROSION CONTROL PRODUCT (BLANKET) TYPE A & HYDROSEED (22,553 S.F. TOTAL)	
2	SLOPES FLATTER THAN 2:1 - HYDROSEED (66,400 S.F. TOTAL)	

EROSION CONTROL PLAN  
SCALE : 1" = 40'

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
*Paul J. Horn*  
REGISTERED CIVIL ENGINEER  
DATE: **05/08/13**

DESIGNED: CG  
DRAWN: RR  
CHECKED: PH  
DATE: **05/08/13**  
ROAD NUMBER: SR 49

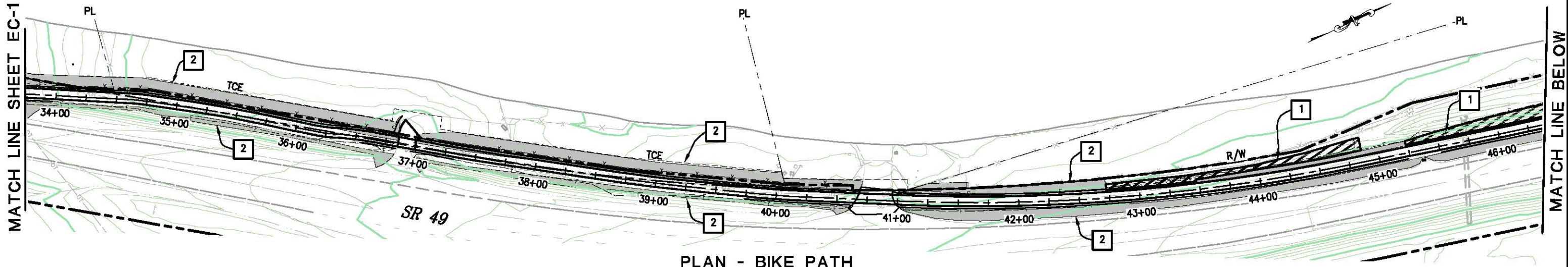


**EL DORADO COUNTY**  
DEPARTMENT OF TRANSPORTATION

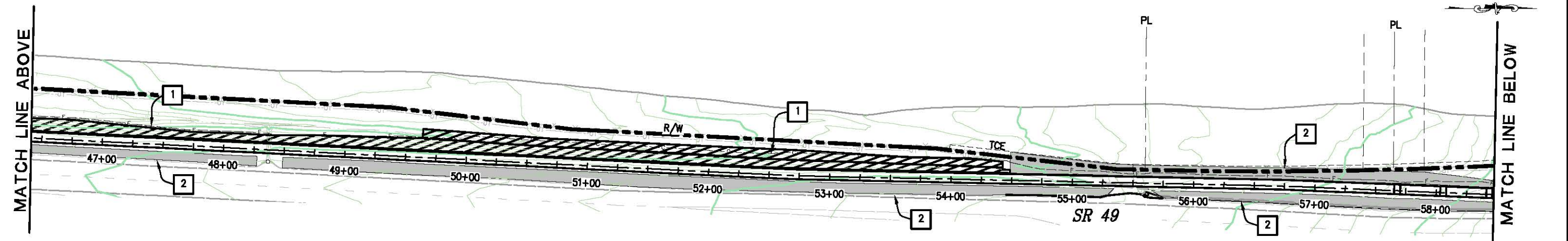
**NORTHSIDE SCHOOL CLASS 1**  
**BIKE PATH - PHASE 2 (SR49)**

SHEET  
**EC-1**  
30 OF 35  
W.O. No. 72306

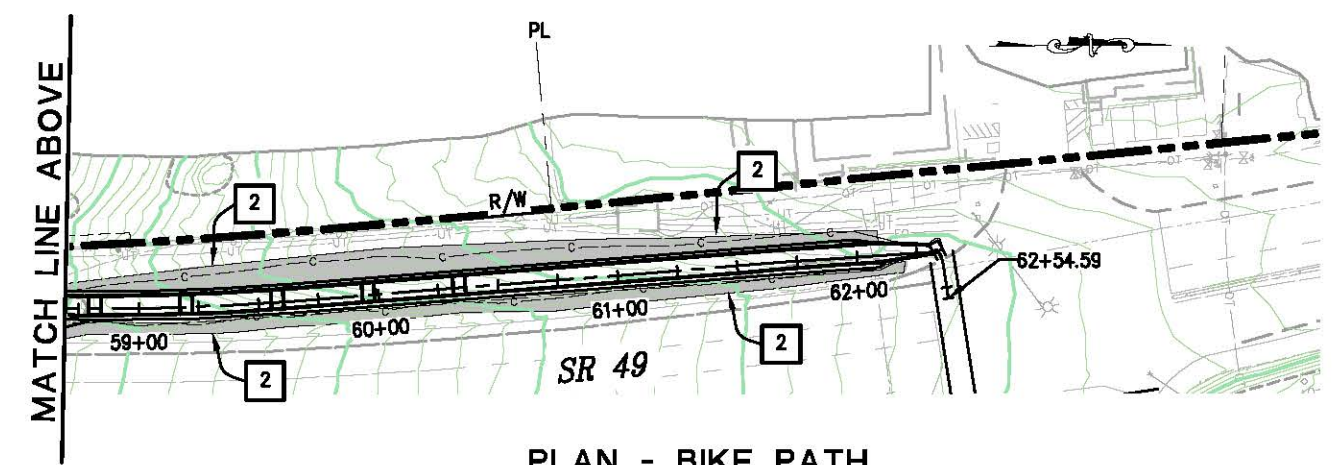
ORIGINAL SCALE: 1/8" = 10' IN INCHES  
 Drawing name: C:\Civil 3D Projects\72306 Northside School Class 1 Bike Path - SR 49\CADD Files\Sheets\EC-1.dwg Layout Tab: EC-2 May 08, 2013 11:13pm S:\mvey



**PLAN - BIKE PATH**  
 STATION 33+75 TO 46+50



**PLAN - BIKE PATH**  
 STATION 46+50 TO 58+50



**PLAN - BIKE PATH**  
 STATION 46+50 TO 62+21

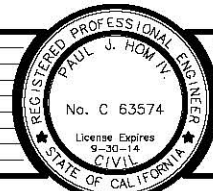
**NOTE:**  
 SEE SECTION 21 OF THE SPECIAL PROVISIONS FOR SEED SPECIFICATIONS  
 AND HYDROSEED APPLICATION RATES

**LEGEND**

1	CUT/FILL SLOPES 2:1 OR STEEPER - ROLLED EROSION CONTROL PRODUCT (BLANKET) TYPE A & HYDROSEED	
2	SLOPES FLATTER THAN 2:1 - HYDROSEED	

EROSION CONTROL PLAN  
 SCALE : 1" = 40'

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
*Paul J. Horn*  
 REGISTERED CIVIL ENGINEER  
 LICENSE NO. C 63574  
 DATE: 05/08/13

DESIGNED: CG  
 DRAWN: RR  
 CHECKED: PH  
 DATE: 05/08/13  
 ROAD NUMBER: SR 49



**EL DORADO COUNTY**  
 DEPARTMENT OF TRANSPORTATION

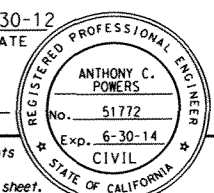
**NORTHSIDE SCHOOL CLASS 1**  
**BIKE PATH - PHASE 2 (SR49)**

SHEET  
**EC-2**  
 31 OF 35  
 W.O. No. 72306





DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	ED	49	31.2/34.8	33	35

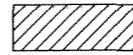
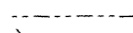
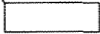

 11-30-12  
 REGISTERED CIVIL ENGINEER DATE  
 PLANS APPROVAL DATE  
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El Dorado County Department of Transportation  
 2850 Fairlane Court  
 Placerville, CA 95667  
 Dakken Engineering  
 110 Blue Ravine Rd, Suite 200  
 Folsom, CA 95630 (916) 858-0642

**NOTES:**

- The contractor shall verify all controlling field dimensions before ordering or fabricating any material.
- Temporary shoring may be required.
- Exposed exist culvert and footing reinforcement to remain undamaged.
- AT&T direct burial and fiber optic lines. The contractor shall verify the horizontal and vertical location of all utilities prior to construction.

**LEGEND**

-  Denotes limits of concrete removal
-  Denotes exist structure
-  Denotes bottom of footing elev

**GENERAL NOTES  
LOAD AND RESISTANCE FACTOR DESIGN**

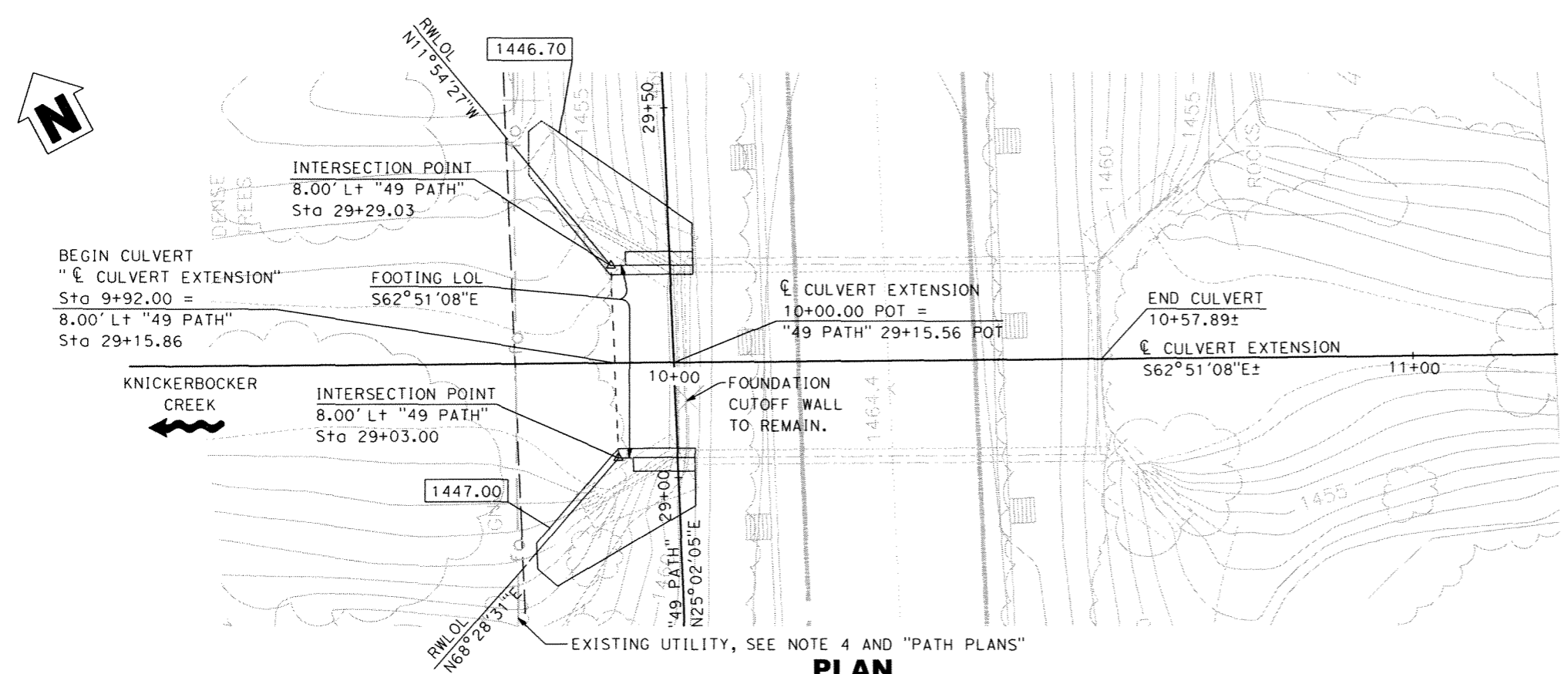
DESIGN:  
 AASHTO LRFD Bridge Design Specifications, 4th edition with California Amendments, preface dated November, 2011.  
 SOIL LOADING:  
 120 PCF VERTICAL, 36 PCF ACTIVE  
 LIVE LOADING:  
 HL93 applied through tire contact area method.  
 REINFORCED CONCRETE:  
 fy = 60 ksi  
 f'c = 4.0 ksi  
 n = 8  
 FOOTING PRESSURE:  
 Allowable = 5.0 ksf  
 Design = 4.66 ksf

**HYDROLOGIC SUMMARY**

DRAINAGE AREA: 2.45 square miles

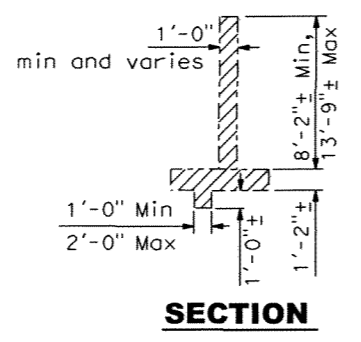
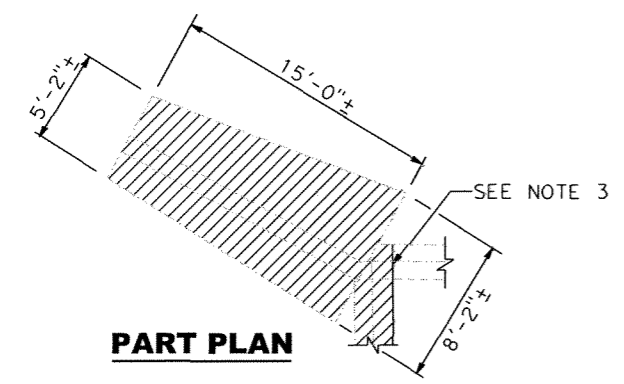
	DESIGN FLOOD	BASE FLOOD	OVERTOPPING FLOOD
FREQUENCY (Years)	50	100	> 100
DISCHARGE (Cubic feet per second)	814	1075	N/A
WATER SURFACE (Elevation at bridge)	1456.05'	1456.44'	N/A

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



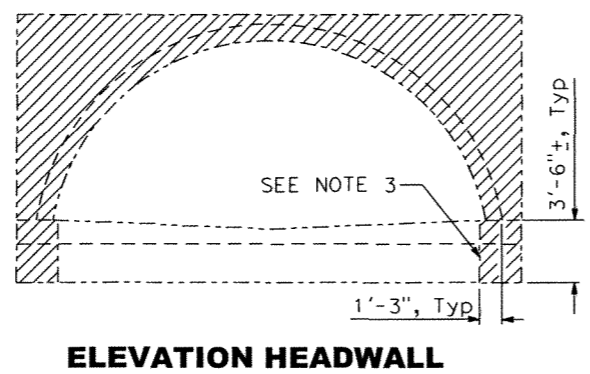
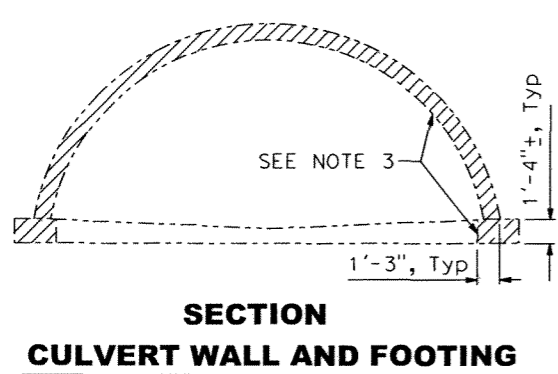
**PLAN**

1" = 10'




**QUANTITIES**

ITEM	TOTAL
REMOVE CONCRETE	1 LS
STRUCTURE EXCAVATION (TYPE D)	227 CY
STRUCTURE BACKFILL (CULVERT)	177 CY
STRUCTURAL CONCRETE	84 CY
BAR REINFORCING STEEL (CULVERT)	12,971 LB
CHAIN LINK RAILING	26 LF
CABLE RAILING	38 LF



**CONCRETE REMOVAL LIMITS**

3/16" = 1'-0"

June 7, 2012  
 APPROVAL DATE  


DESIGN OVERSIGHT - 12-6-12 SIGN OFF DATE	SCALE: As Noted	VERT. DATUM NAVD 88	HORZ. DATUM NAD 83	DESIGN BY K. Sorakina	CHECKED L. Burne	PREPARED FOR THE <b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	BRIDGE NO. 25-0123	<b>KNICKERBOCKER CREEK CULVERT (EXTENSION)</b>  <b>FOUNDATION PLAN</b>		
	PHOTOGRAMMETRY AS OF: 4-2-10	ALIGNMENT TIES ED County		DETAILS BY C. Haughton	CHECKED L. Burne		PROJECT ENGINEER A. Powers		POST MILES 33.80	
	SURVEYED BY ED County	DRAFTED BY ED County		QUANTITIES BY K. Sorakina	CHECKED L. Burne					
	FIELD CHECKED BY ED County	CHECKED BY ED County								
FOUNDATION PLAN SHEET (ENGLISH) (REV. 7/16/10)										
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS						UNIT: X PROJECT NUMBER & PHASE: 0300000347 CONTRACT NO.: 03-2E4801		DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 11-30-12 8-3-12 8-11-12 9-1-12	SHEET 2 OF 4

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	ED	49	31.2/34.8	34	35

REGISTERED CIVIL ENGINEER  
 ANTHONY C. POWERS  
 No. 51772  
 Exp. 6-30-14  
 CIVIL  
 STATE OF CALIFORNIA

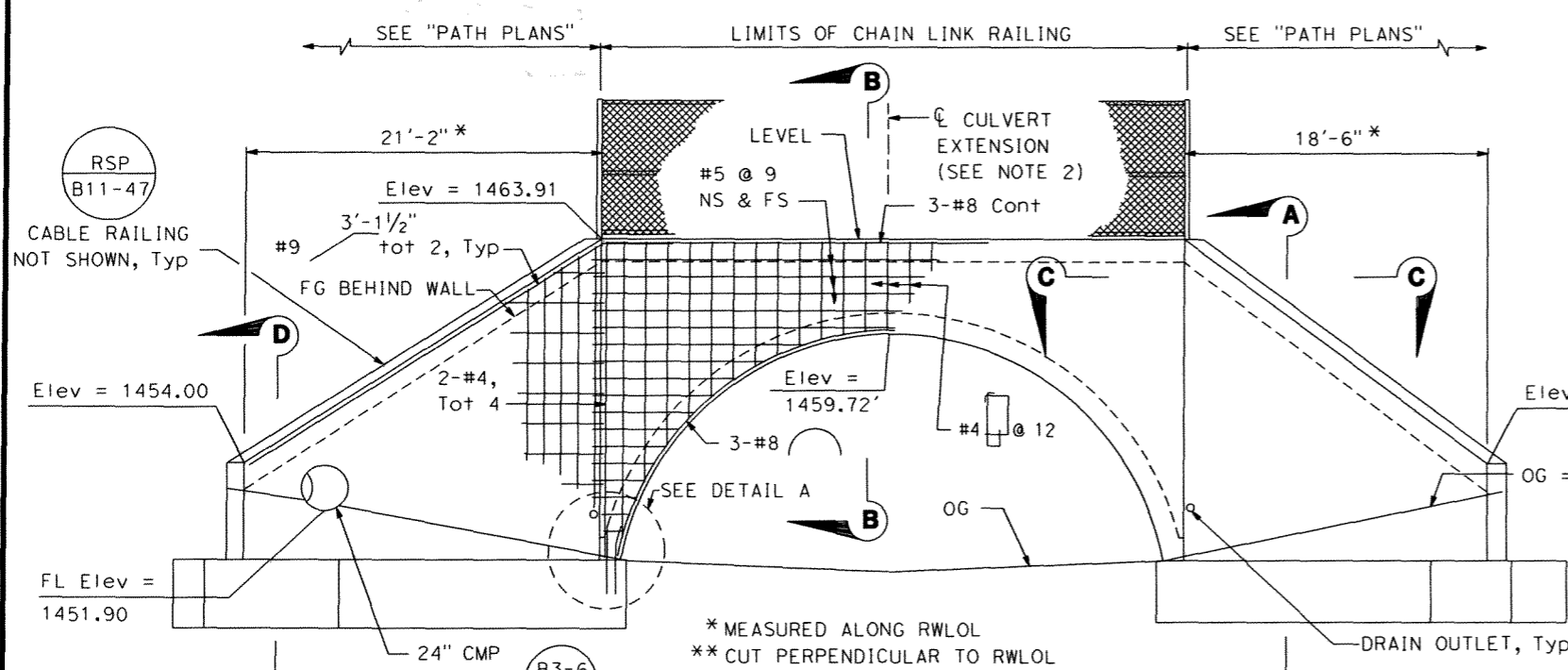
11-30-12  
 DATE

PLANS APPROVAL DATE

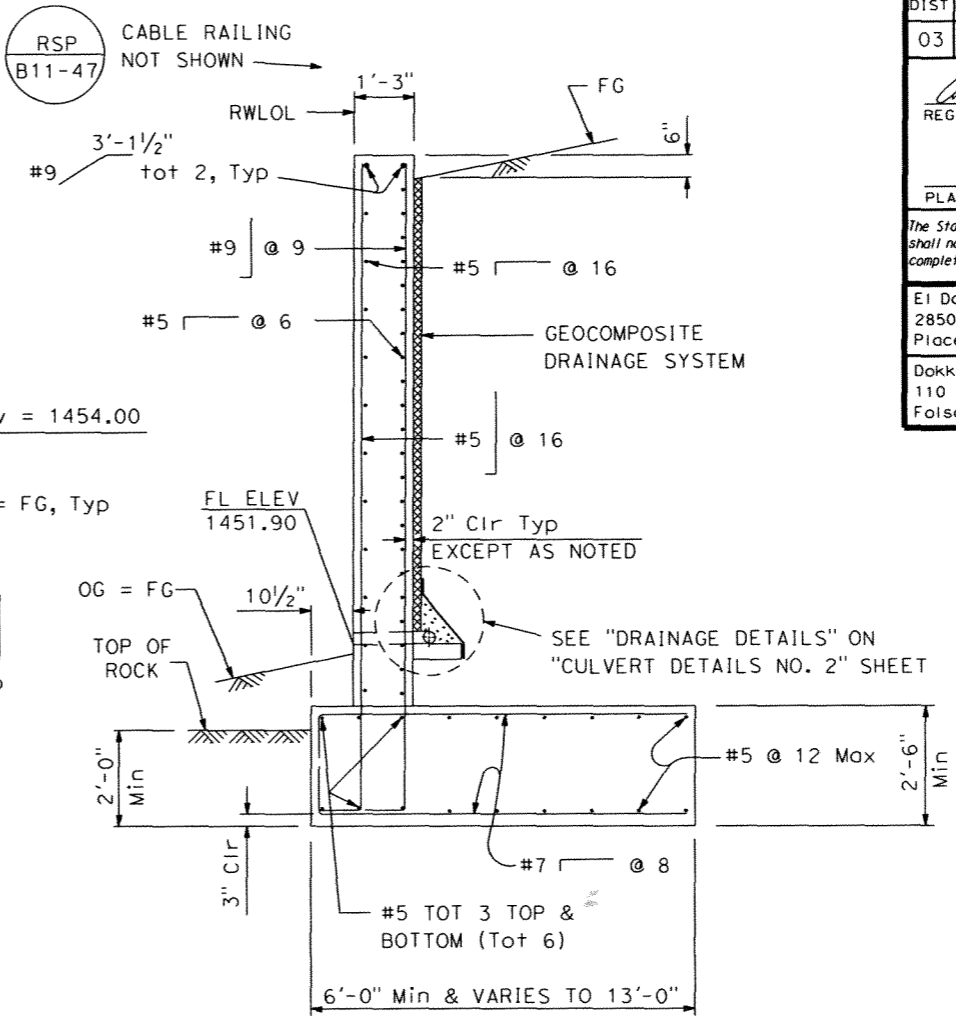
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 2850 Fairlane Court  
 Placerville, CA 95667

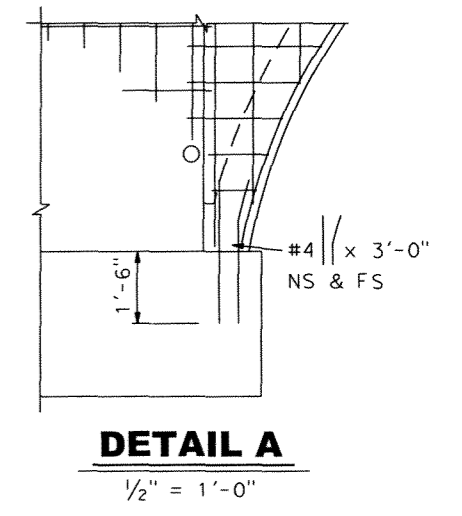
Dokken Engineering  
 110 Blue Ravine Rd, Suite 200  
 Folsom, CA 95630 (916) 858-0642



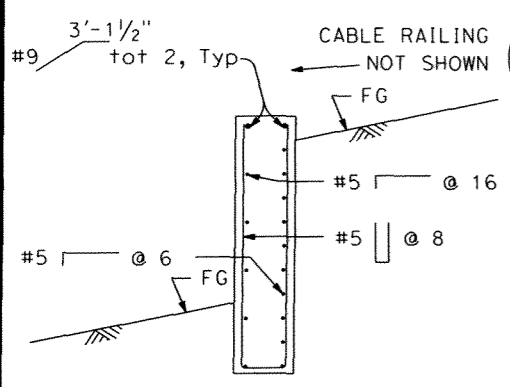
**HEADWALL ELEVATION**  
 1/4" = 1'-0"



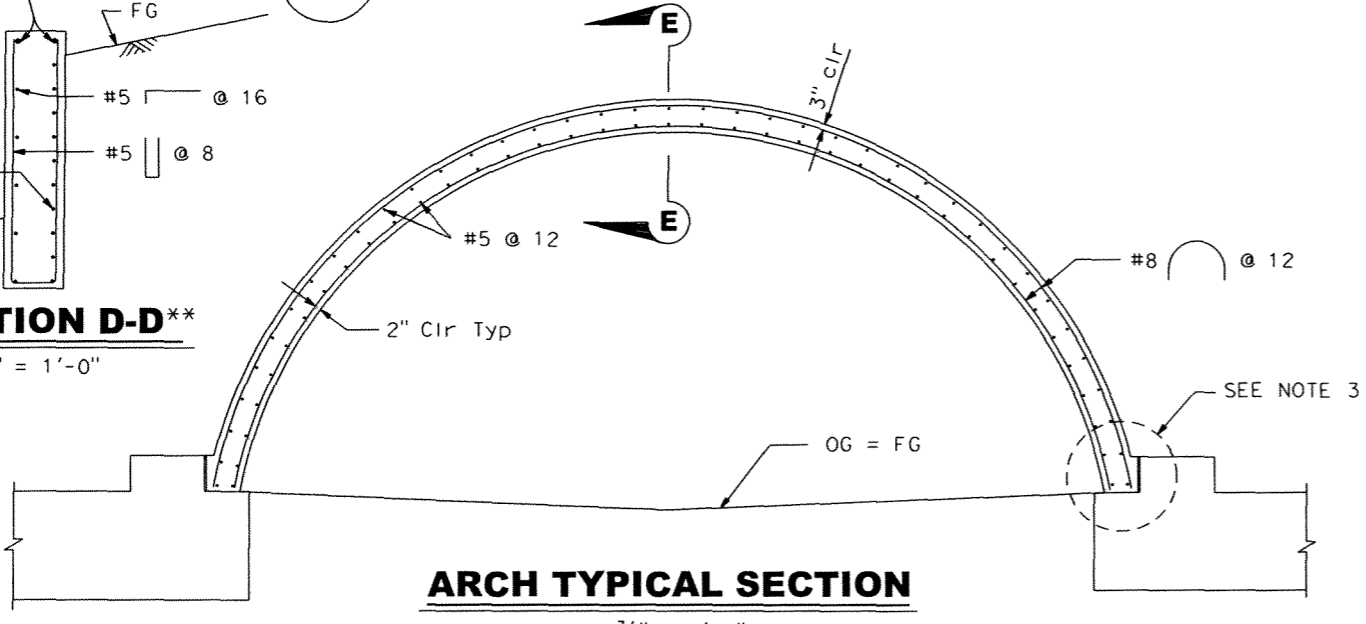
**SECTION A-A**  
 1/2" = 1'-0"



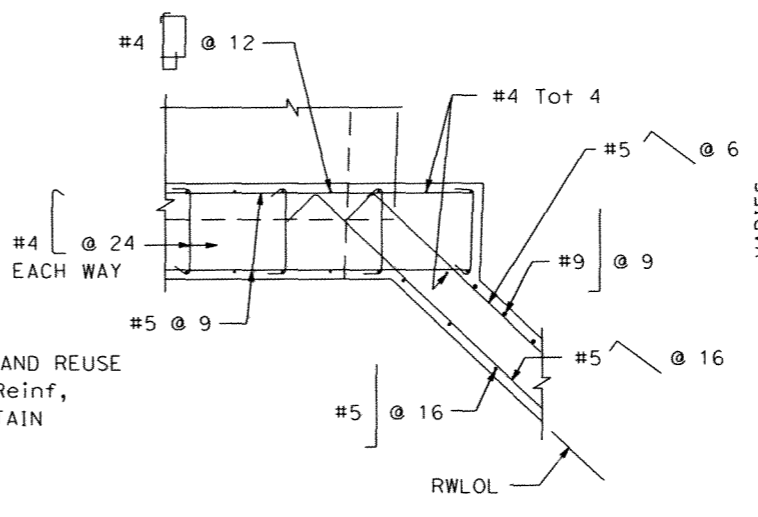
**DETAIL A**  
 1/2" = 1'-0"



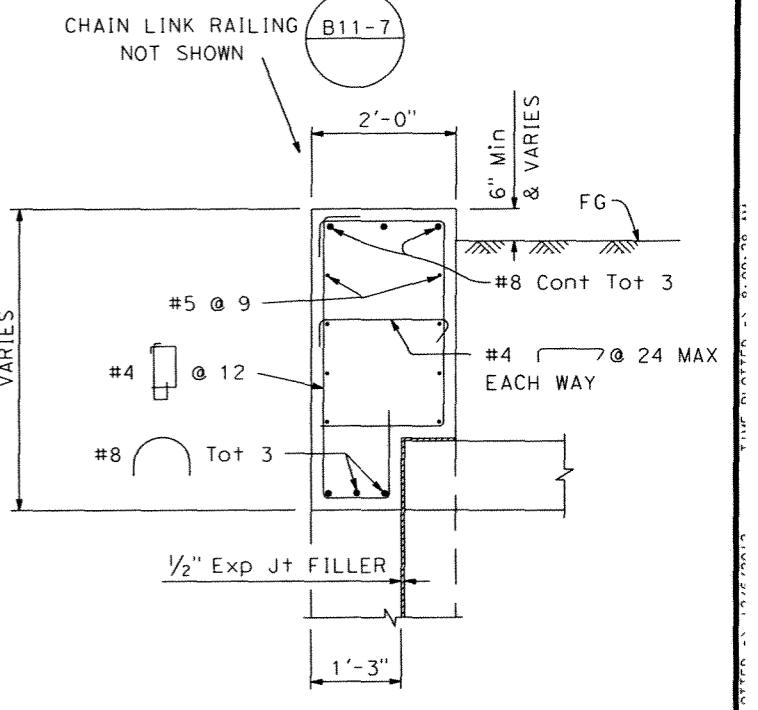
**SECTION D-D**  
 1/2" = 1'-0"



**ARCH TYPICAL SECTION**  
 3/8" = 1'-0"

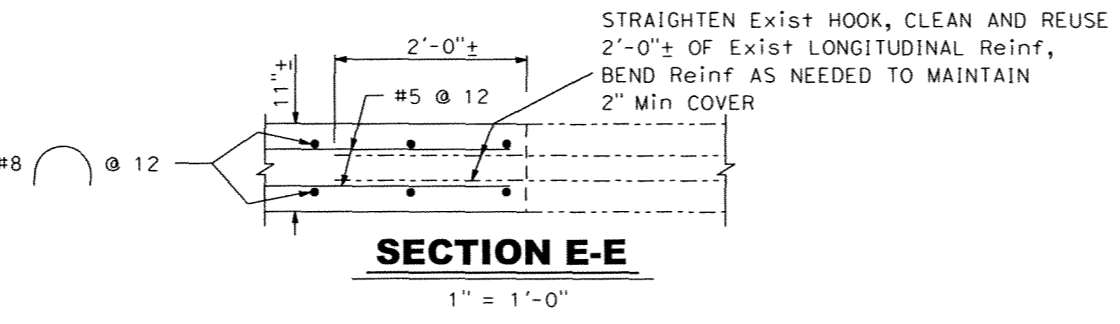


**SECTION C-C**  
 1/2" = 1'-0"



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

- NOTES:**
- The contractor shall verify all controlling field dimensions before ordering or fabricating any material.
  - Headwall reinf symmetrical about  $\bar{c}$  culvert extension.
  - For culvert footing details, see "SECTION G-G" on "CULVERT DETAILS NO. 2" sheet.



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

DESIGN OVERSIGHT  
 12-6-12  
 SIGN OFF DATE

DESIGN	BY K. Sorokina	CHECKED L. Burne
DETAILS	BY C. Houghton	CHECKED L. Burne
QUANTITIES	BY K. Sorokina	CHECKED L. Burne

PREPARED FOR THE  
**STATE OF CALIFORNIA**  
 DEPARTMENT OF TRANSPORTATION

A. Powers  
 PROJECT ENGINEER

BRIDGE NO.  
 25-0123  
 POST MILES  
 33.80

**KNICKERBOCKER CREEK CULVERT (EXTENSION)**  
**CULVERT DETAILS NO. 1**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	ED	49	31.2/34.8	35	35

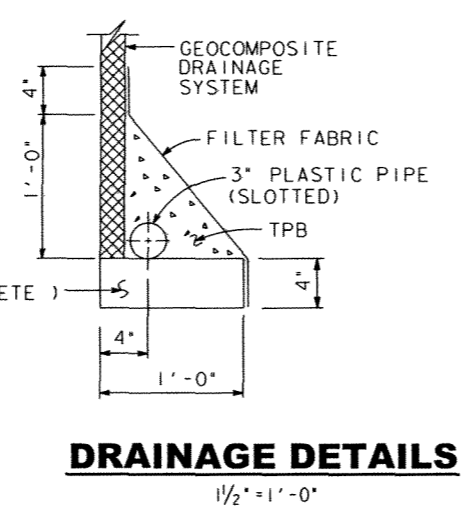
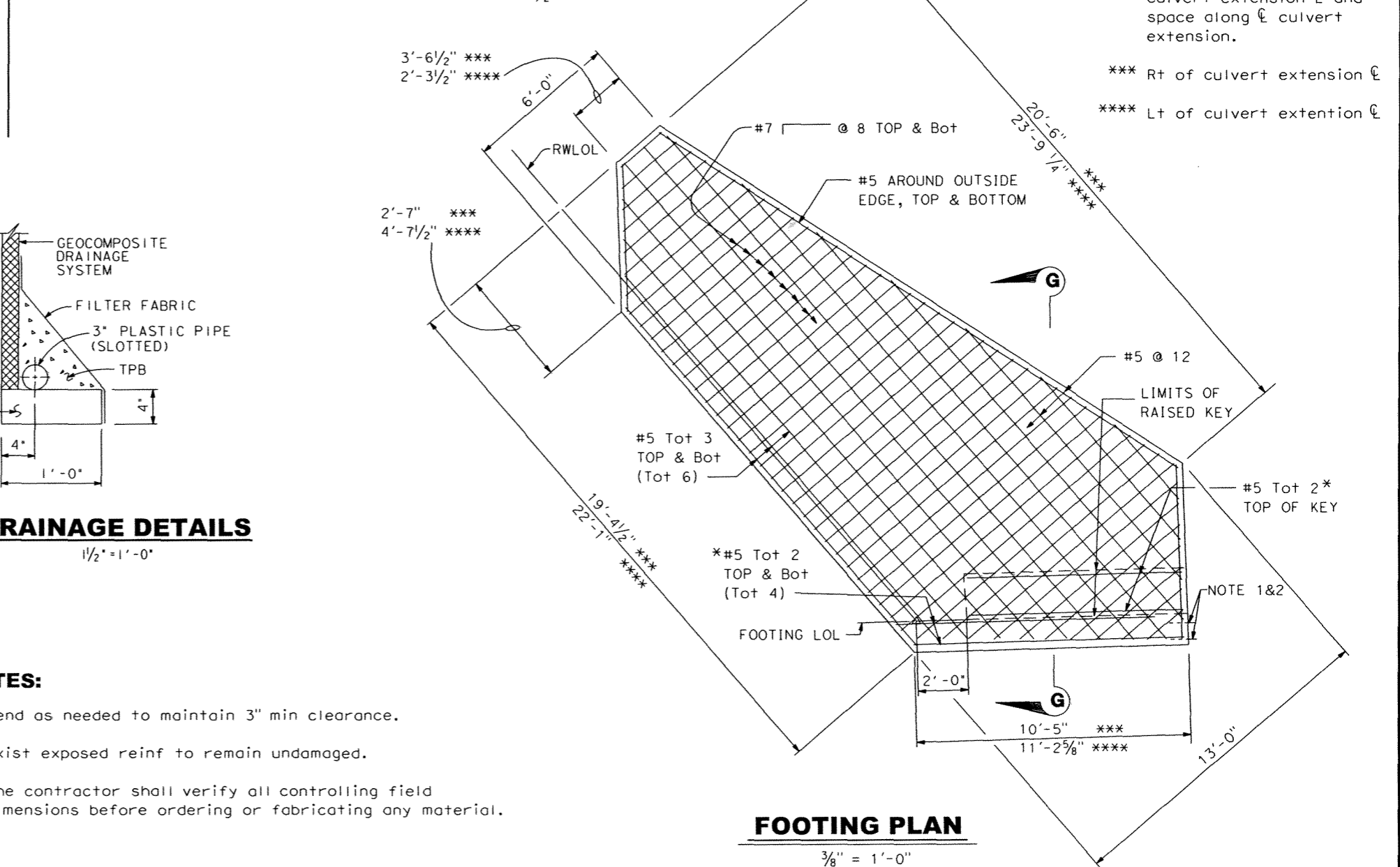
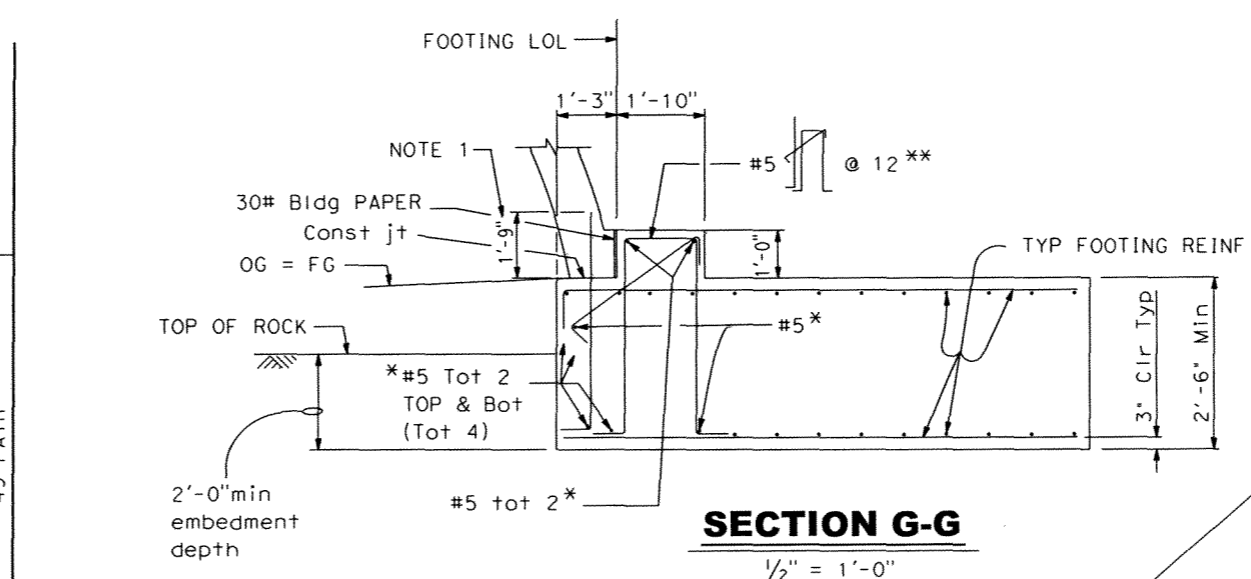
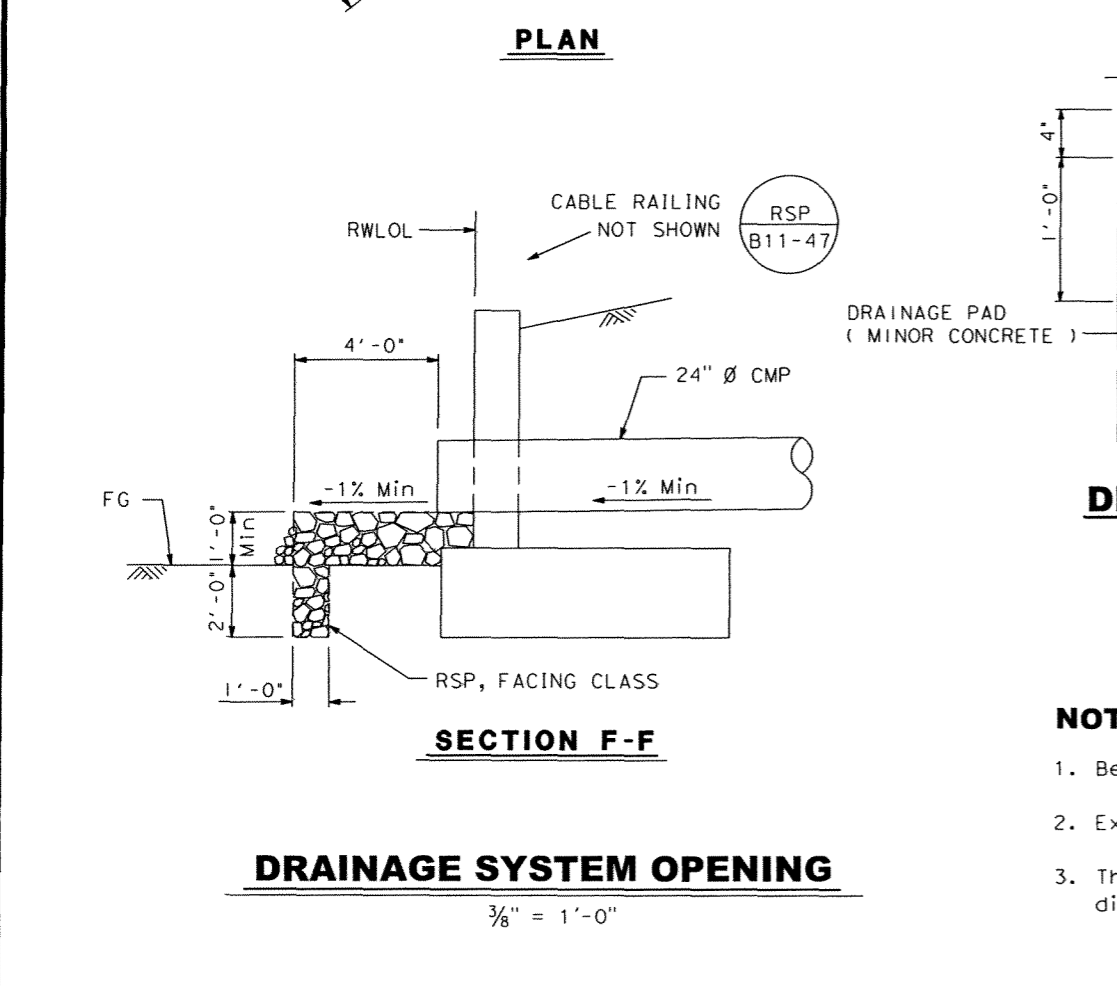
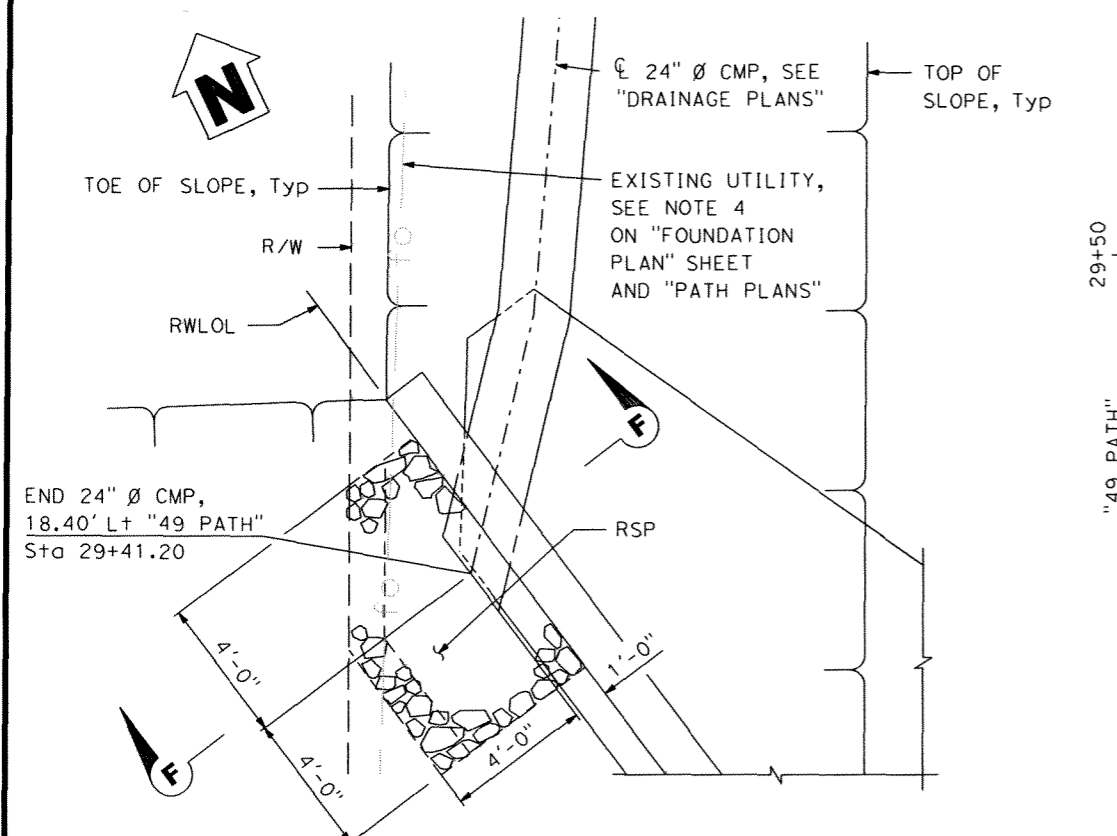
REGISTERED CIVIL ENGINEER  
 11-30-12 DATE  
 ANTHONY C. POWERS  
 No. 51772  
 Exp. 6-30-14  
 CIVIL  
 STATE OF CALIFORNIA

PLANS APPROVAL DATE

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El Dorado County Department of Transportation  
 2850 Fairlane Court  
 Placerville, CA 95667

Dokken Engineering  
 110 Blue Ravine Rd, Suite 200  
 Folsom, CA 95630 (916) 858-0642



- NOTES:**
- Bend as needed to maintain 3" min clearance.
  - Exist exposed reinf to remain undamaged.
  - The contractor shall verify all controlling field dimensions before ordering or fabricating any material.

- \* Place reinf parallel to culvert extension  $\ell$ .
- \*\* Place reinf transverse to culvert extension  $\ell$  and space along  $\ell$  culvert extension.
- \*\*\* Rt of culvert extension  $\ell$
- \*\*\*\* Lt of culvert extension  $\ell$

DESIGN OVERSIGHT 12-6-12 SIGN OFF DATE	DESIGN BY: K. Sorokina CHECKED: L. Burne	DETAILS BY: C. Houghton CHECKED: L. Burne	QUANTITIES BY: K. Sorokina CHECKED: L. Burne	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO. 25-0123 POST MILES 33.80	PROJECT ENGINEER A. Powers	KNICKERBOCKER CREEK CULVERT (EXTENSION) CULVERT DETAILS NO. 2
DESIGN DETAIL SHEET (ENGLISH) (REV.7/16/10)	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: X	PROJECT NUMBER & PHASE: 0300000347	CONTRACT NO.: 03-2E4801	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 4 OF 4