

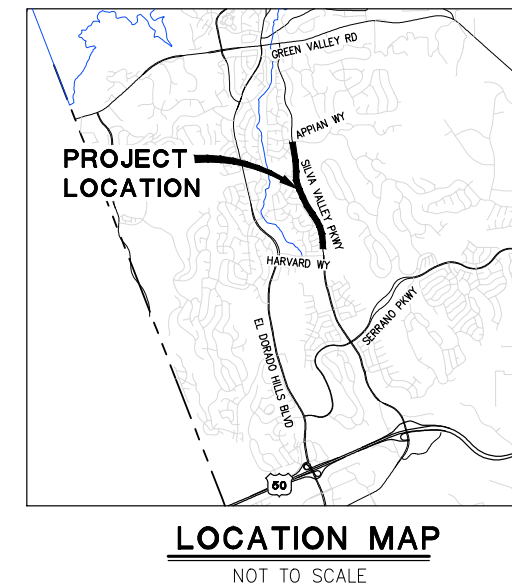
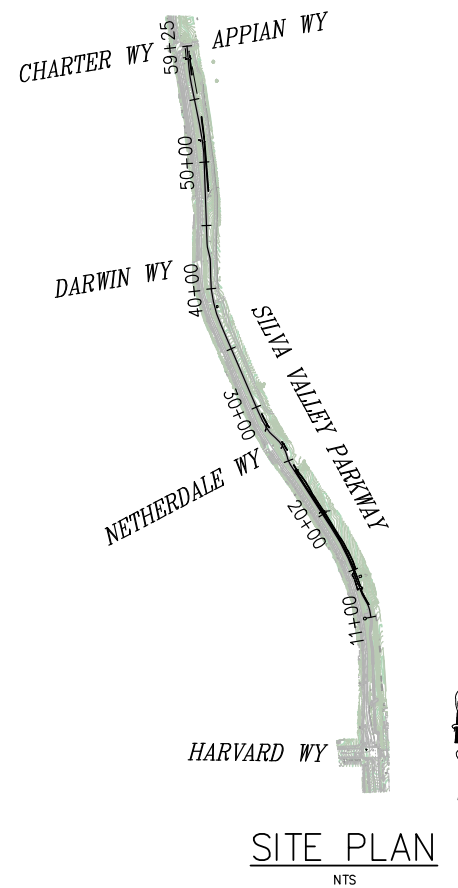
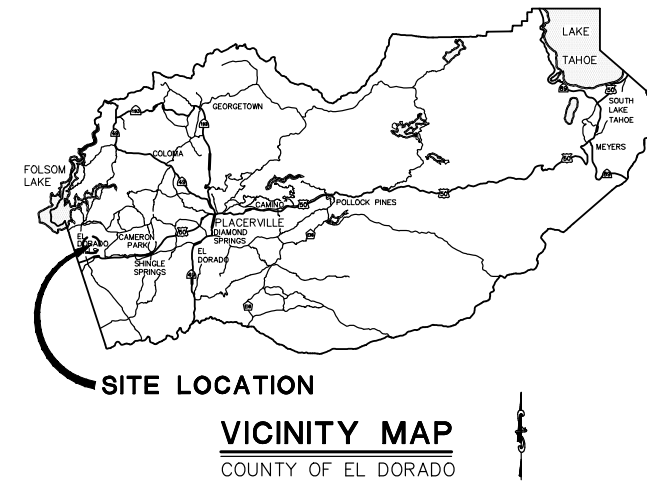
**INDEX OF SHEETS**

SHEET	PLAN SHEET	TITLE
1		TITLE SHEET
2-3	CD-1 THRU CD-2	SURVEY AND CONTROL DIAGRAM
4-5	L-1 THRU L-2	LAYOUT
6	C-1	CONSTRUCTION DETAILS
7-9	D-1 THRU L-3	DRAINAGE
10	CS-1	CONSTRUCTION AREA SIGNS

# COUNTY OF EL DORADO, CA DEPARTMENT OF TRANSPORTATION

## PROJECT PLANS FOR THE CONSTRUCTION OF SILVA VALLEY BIKE PATH DRAINAGE IMPROVEMENTS

IN THE COUNTY OF EL DORADO, DISTRICT I  
VARIOUS LOCATIONS LONG THE SILVA VALLEY PARKWAY, APPROX 1.95 MILES NORTH OF U.S. HWY 50  
To be supplemented with Standard Plans and Specifications dated 2018, including the 2018 Revised Standard Specifications, of the California Department of Transportation, unless otherwise noted.



**FUNDING AGENCY**

**BOARD OF SUPERVISORS**

I	JOHN HIDAHL
II	SHIVA FRENTZEN
III	BRIAN VEERKAMP
IV	LORI PARLIN
V	SUE NOVASEL

**COUNTY OF EL DORADO  
DEPARTMENT OF TRANSPORTATION**

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

ADOPTED AND APPROVED BY:

BRIAN VEERKAMP  
CHAIR, EL DORADO COUNTY BOARD OF SUPERVISORS

APPROVED BY:

RAFAEL MARTINEZ, DIRECTOR  
DEPARTMENT OF TRANSPORTATION

JOHN KAHLING P.E. NO. C52426  
DEPUTY DIRECTOR, ENGINEERING

DATE	DATE	DATE

CIP NO. 72313

**SILVA VALLEY BIKE PATH  
DRAINAGE IMPROVEMENTS**

**TITLE SHEET**

SHEET **1** OF **10**

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. Failure of the successful Bidder to obtain proper and adequate licensing at the time bids are submitted shall constitute a failure to execute the Contract, and forfeiture as provided under that section.

REVISIONS		
MARK	DATE	BY

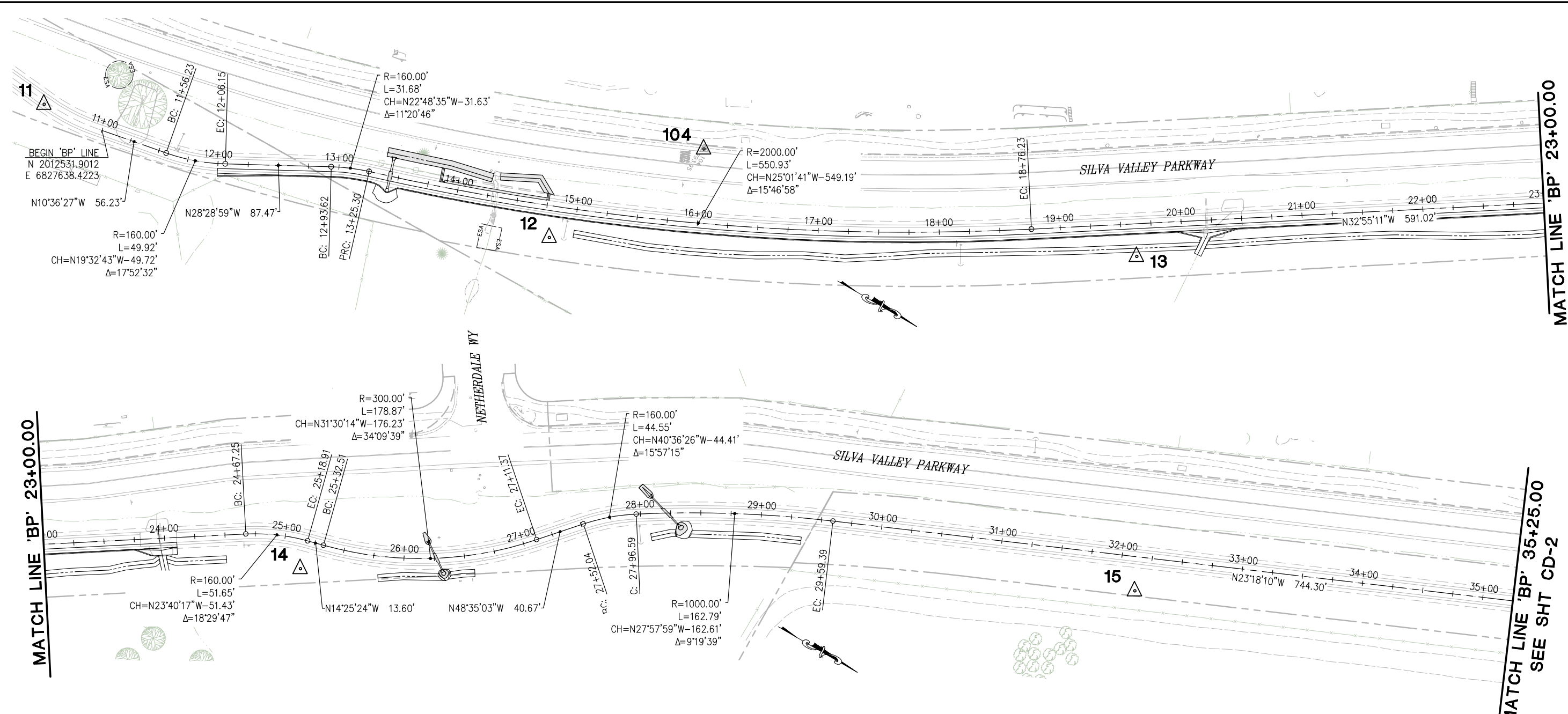


SUBMITTED BY: *Zachary S. Oates*  
CIVIL ENGINEER  
STATE OF CALIFORNIA NO. \_\_\_\_\_

DATE: 05/20/20

Drawing name: C:\Civil 3D\Projects\72313 SVP Bike Path Drainage Improvements\CADD Files\Sheets\Title Sheet.dwg Layout Tab: Title May 20,2020 - 12:01pm SMCVey

ORIGINAL SCALE IS IN INCHES  
 Drawing name: C:\Civil\_3D\Projects\72313\_SVP\_Bike\_Path\_Drainage\_Improvements\CADD\_Files\Sheets\CD-Sheets.dwg Layout Tab: CD-1 May 20, 2020 - 12:04pm SMCvey  
 FOR REDUCED PLANS

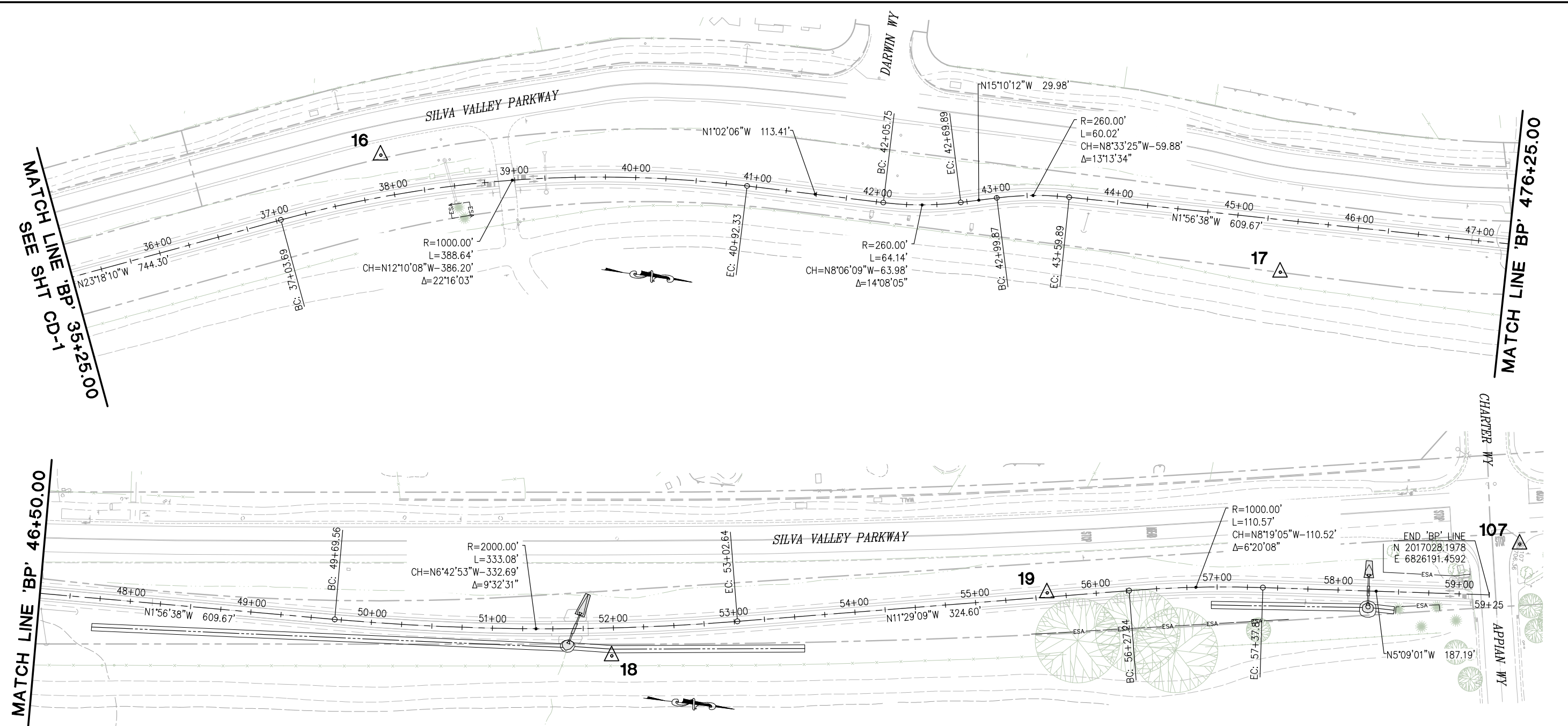


'BP' LINE CONTROL TABLE				
CONTROL NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
11	2012479.83	6827643.67	803.63	CP SPIKE
12	2012896.29	6827530.24	802.05	CP SPIKE
13	2013324.38	6827301.21	788.49	CP SPIKE
14	2013787.35	6827006.19	770.25	CP SPIKE
15	2014393.53	6826677.43	772.28	CP SPIKE
104	2012970.32	6827403.13	793.95	AERIAL CONTROL POINT

SURVEY AND CONTROL DIAGRAM  
SCALE : 1" = 40'

REVISION NUMBER    DATE    DESCRIPTION    BY		PREPARED UNDER THE SUPERVISION OF: <i>Joseph C. Neely</i> REGISTERED CIVIL ENGINEER DATE: 05/20/20	DESIGNED: JN DRAWN: SGM		COUNTY OF EL DORADO DEPARTMENT OF TRANSPORTATION	SILVA VALLEY BIKE PATH DRAINAGE IMPROVEMENTS	SHEET <b>CD-1</b> 2 OF 10 W.O. No. <b>72313</b>
			CHECKED: JN DATE: 02/28/20				

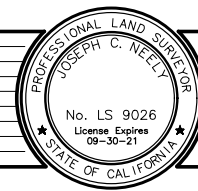
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 FOR REDUCED PLANS



'BP' LINE CONTROL TABLE				
CONTROL NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
16	2014906.56	6826393.20	750.92	CP SPIKE
17	2015655.90	6826385.48	758.24	CP SPIKE
18	2016314.87	6826329.77	720.70	CP SPIKE
19	2016665.50	6826234.41	725.83	CP SPIKE
107	2017048.18	6826146.90	706.36	AERIAL CONTROL POINT

**SURVEY AND CONTROL DIAGRAM**  
SCALE : 1" = 40'

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
*Joseph C. Neely*  
 REGISTERED CIVIL ENGINEER  
 DATE: 05/20/20

DESIGNED: JN  
 DRAWN: SGM  
 CHECKED: JN  
 DATE: 02/28/20  
 ROAD NUMBER: 2347

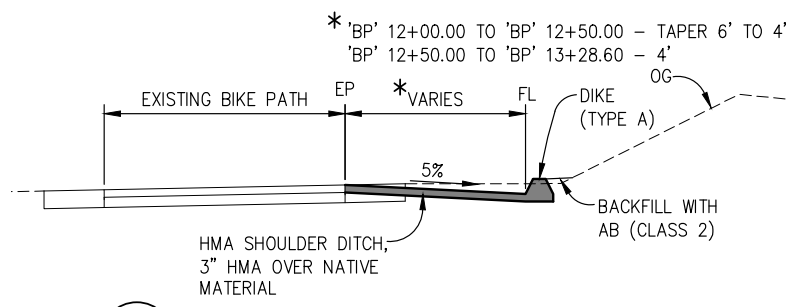
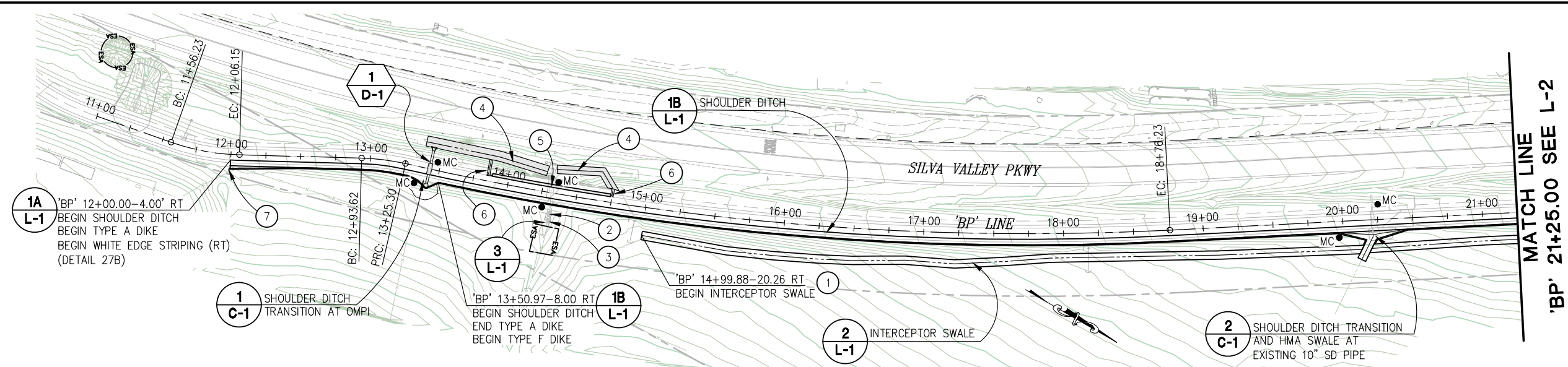


**COUNTY OF EL DORADO**  
**DEPARTMENT OF TRANSPORTATION**

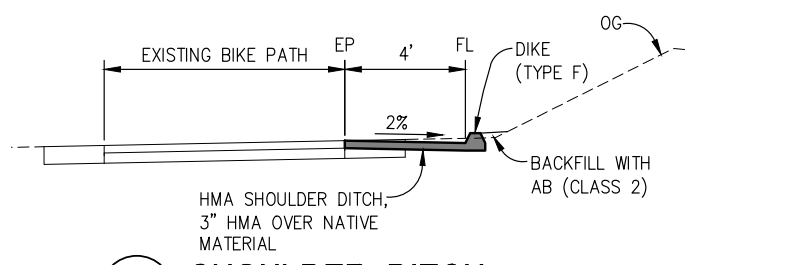
**SILVA VALLEY BIKE PATH DRAINAGE**  
**IMPROVEMENTS**

SHEET  
**CD-2**  
 3 OF 10  
 W.O. No. **72313**

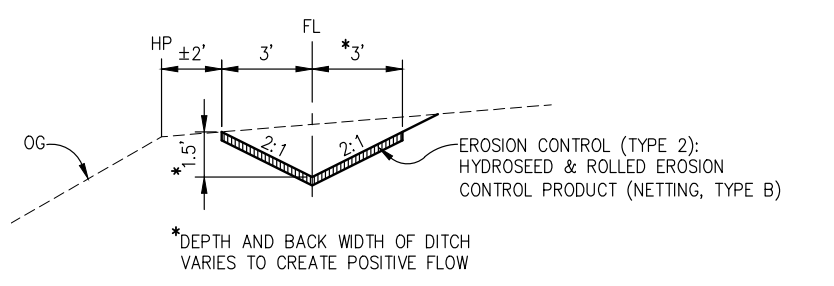
ORIGINAL SCALE IS IN INCHES  
 Drawing name: C:\Civil\_3D\Projects\72313\_SVP\_Bike\_Path\_Drainage\_Improvements\CADD\_Files\Sheets\L-1\_Sheets.dwg Layout Tab: L-1 May 20, 2020 - 11:50am SMeVey  
 FOR REDUCED PLANS  
 REVISION  
 NUMBER DATE DESCRIPTION BY



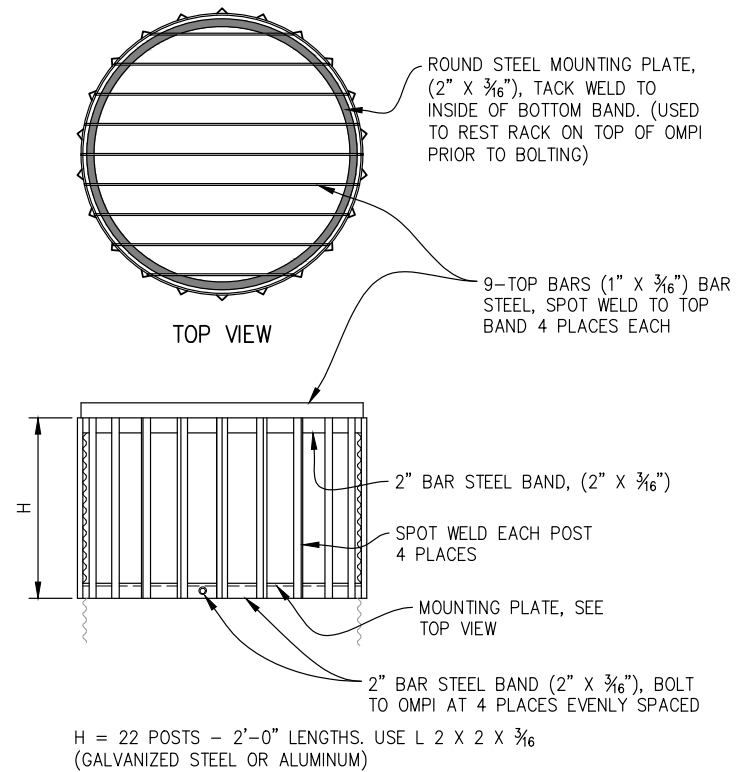
**1A SHOULDER DITCH**  
L-1 ('BP' 12+00.00 TO 'BP' 13+50.97)  
NTS



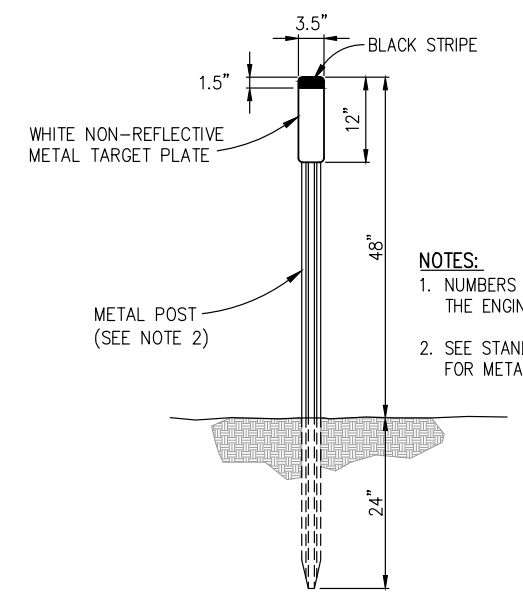
**1B SHOULDER DITCH**  
L-1 ('BP' 13+50.97 TO END)  
NTS



**2 INTERCEPTOR SWALE**  
L-1 NTS



**3 DEBRIS RACK CAGE**  
L-1 NTS



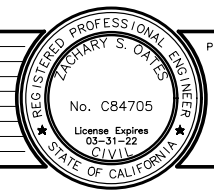
**4 CULVERT MARKER**  
L-1 NTS

- LEGEND**
- MC ● — CULVERT MARKER, PER 4 L-1
  - ESA — ESA FENCING
  - X D-X — STORM DRAINAGE SYSTEM NUMBER
  - X X-X — DETAIL SHEET NUMBER

- CONSTRUCTION NOTES:**
- STATIONS AND OFFSET FOR INTERCEPTOR SWALE ARE APPROXIMATE. COORDINATE ACTUAL LOCATION IN THE FIELD WITH ENGINEER
  - EXISTING 48" SDMH (±'BP' 14+33-15' RT) INSTALL TWO 8" X 24" SIDE OPENINGS WITH SINGLE 1.5" X 3/8" TRASH BAR INSTALLED HORIZONTALLY AT WINDOW MIDPOINT. REMOVE AND SALVAGE LID AND REPLACE W/ TYPE 48R FRAME AND GRATE SECURED WITH 18" CHAIN. SEE STD PLAN D75A AND D77B
  - EXISTING OMPI (±'BP' 14+33-20' RT) INSTALL STD PLAN D93C (MODIFIED) DEBRIS RACK CAGE WITH A HEIGHT OF 2' ABOVE THE TOP OF THE EXISTING OMPI, SEE DETAIL 3, THIS SHEET. REMOVE AND RELOCATE THE EXISTING 36-R GRATE TO THE TOP OF THE MODIFIED OMPI AT ±'BP' 13+43
  - 'BP' 13+36± TO 'BP' 14+80± ROCK LINED DITCH. (2' DEPTH, CLASS III). PROTECT TREES AND HAND PLACE ROCK AROUND THEM. (±70 CY ROCK, 204 SY RSP FABRIC)
  - 'BP' 13+88 TO 'BP' 14+74 LT: REMOVE AND REPLACE 3" OF AB SHOULDER WITH 3" OF 1/2" HMA, PLACE WHITE EDGE LINE (DETAIL 27B)
  - INSTALL 3" THICK HMA OVERSIDE DRAIN AT BOTH ENDS OF RETAINING WALL, LAYOUT AS DIRECTED BY ENGINEER
  - INSTALL TYPE 'L-2' OBJECT MARKER, PER A73A AT BEGINNING OF HMA DIKE

- NOTES:**
- NUMBERS AS DESIGNATED BY THE ENGINEER.
  - SEE STANDARD PLAN RSP A73B FOR METAL POST DETAILS.

LAYOUT SCALE : AS SHOWN



PREPARED UNDER THE SUPERVISION OF:  
 [Signature]  
 REGISTERED CIVIL ENGINEER  
 DATE: 05/20/20

DESIGNED: ZO  
 DRAWN: SGM  
 CHECKED: ZO  
 DATE: 04/13/20  
 ROAD NUMBER: 2347



COUNTY OF EL DORADO  
 DEPARTMENT OF TRANSPORTATION

SILVA VALLEY BIKE PATH DRAINAGE  
 IMPROVEMENTS

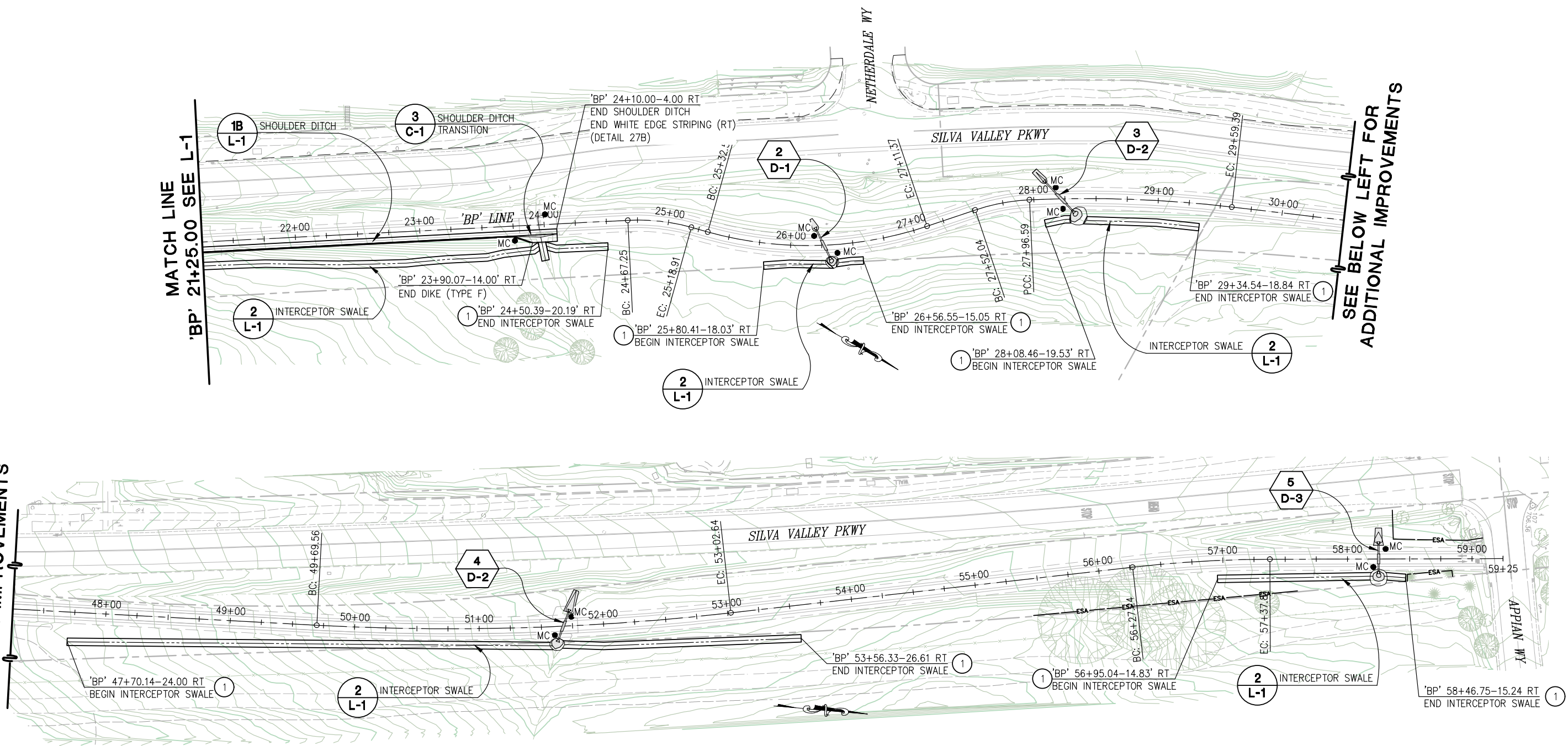
SHEET  
**L-1**  
 4 OF 10  
 W.O. No. 72313

ORIGINAL SCALE IS IN INCHES  
 Drawing name: C:\Civil\_3D\Projects\72313\_SVP\_Bike\_Path\_Drainage\_Improvements\CADD\_Files\Sheets\L-2\_Sheets.dwg Layout Tab: L-2 May 20, 2020 - 11:49am SMcVey

SEE ABOVE RIGHT FOR  
 ADDITIONAL IMPROVEMENTS

MATCH LINE  
 'BP' 21+25.00 SEE L-1

SEE BELOW LEFT FOR  
 ADDITIONAL IMPROVEMENTS

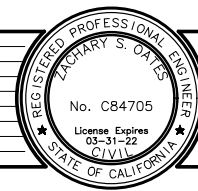


**CONSTRUCTION NOTES:**

① — STATIONS AND OFFSET FOR INTERCEPTOR SWALE ARE APPROXIMATE. COORDINATE ACTUAL LIMITS IN FIELD WITH THE ENGINEER

FOR REDUCED PLANS  
 REVISION

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
  
 REGISTERED CIVIL ENGINEER  
 DATE: 05/20/20

DESIGNED: ZO  
 DRAWN: SGM  
 CHECKED: ZO  
 DATE: 04/13/20  
 ROAD NUMBER: 2347



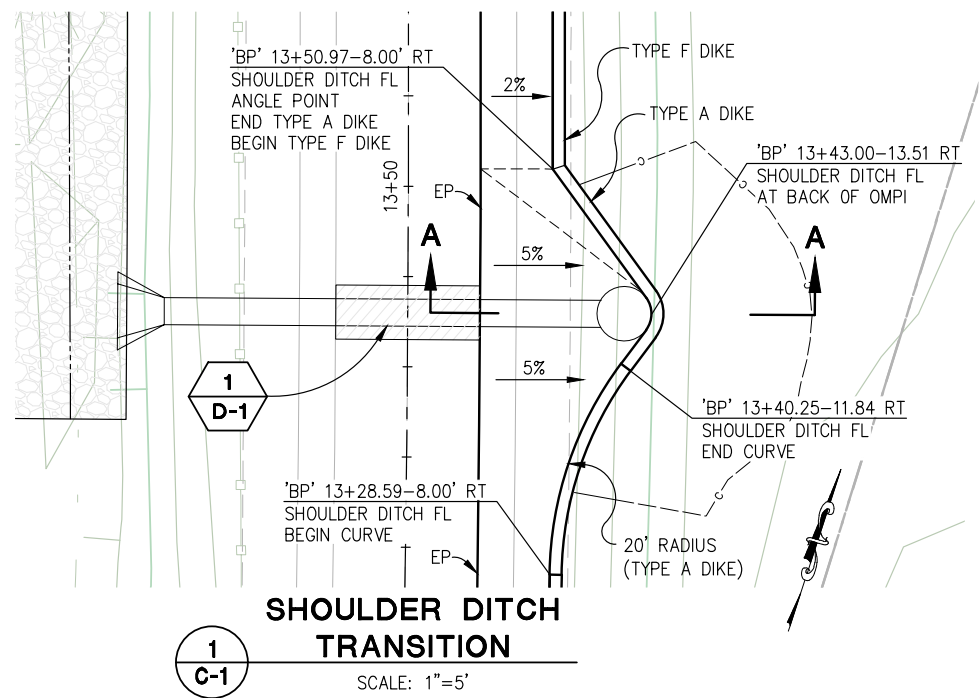
COUNTY OF EL DORADO  
 DEPARTMENT OF TRANSPORTATION

SILVA VALLEY BIKE PATH DRAINAGE  
 IMPROVEMENTS

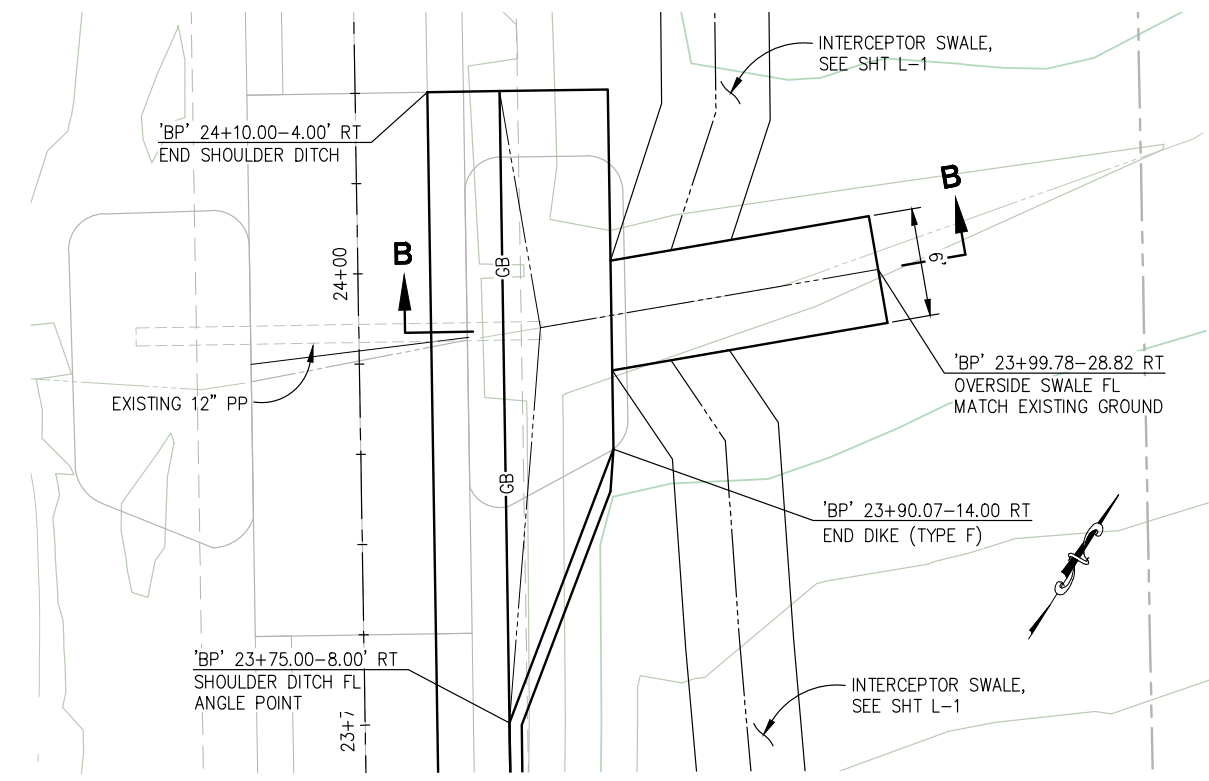
LAYOUT  
 SCALE : 1" = 40'

SHEET  
 L-2  
 5 OF 10  
 W.O. No. 72313

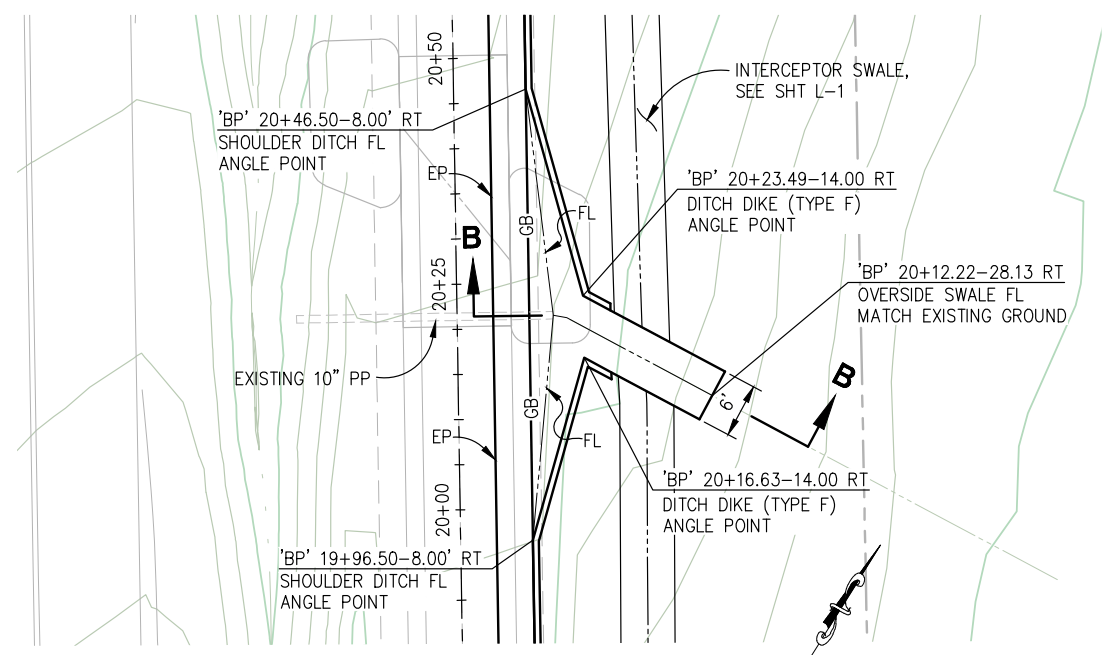
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 FOR REDUCED PLANS  
 REVISION  
 NUMBER DATE DESCRIPTION BY



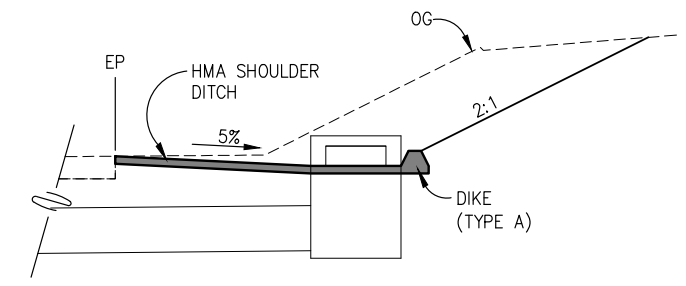
**1**  
**C-1**  
**SHOULDER DITCH TRANSITION**  
 SCALE: 1"=5'



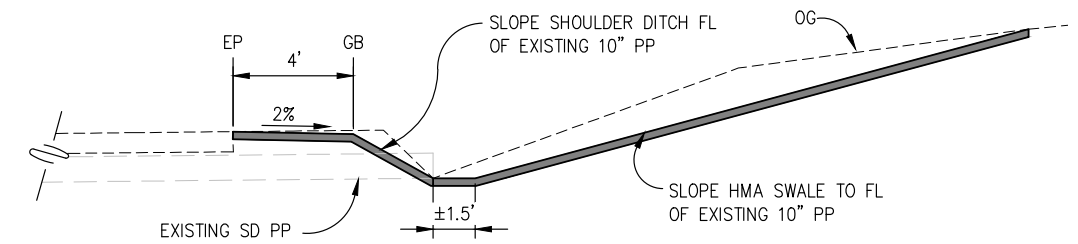
**3**  
**C-1**  
**SHOULDER DITCH TRANSITION**  
 SCALE: 1"=5'



**2**  
**C-1**  
**SHOULDER DITCH TRANSITION**  
 SCALE: 1"=5'

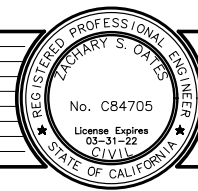


**SECTION A-A**  
 NTS



**SECTION B-B**  
 NTS

**CONSTRUCTION DETAILS**  
**SCALE : AS SHOWN**



PREPARED UNDER THE SUPERVISION OF :  
*Zachary S. Oates*  
 REGISTERED CIVIL ENGINEER  
 DATE: 05/20/20

DESIGNED: ZO  
 DRAWN: SGM  
 CHECKED: ZO  
 DATE: 04/09/20  
 ROAD NUMBER: 2347

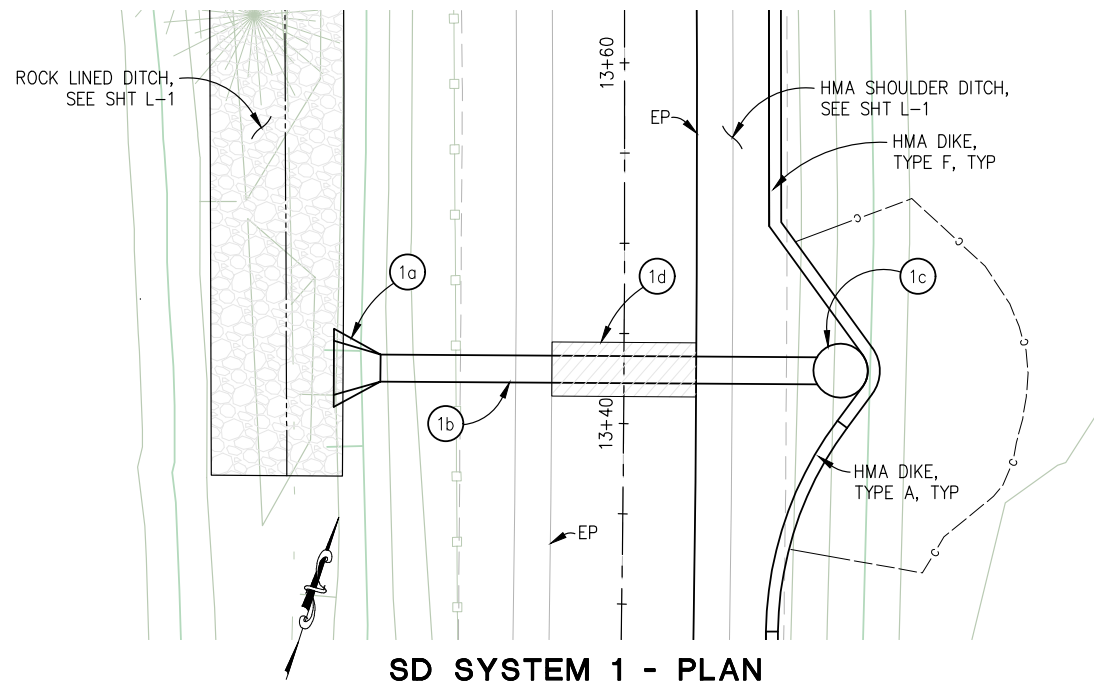


**COUNTY OF EL DORADO**  
**DEPARTMENT OF TRANSPORTATION**

**SILVA VALLEY BIKE PATH DRAINAGE IMPROVEMENTS**

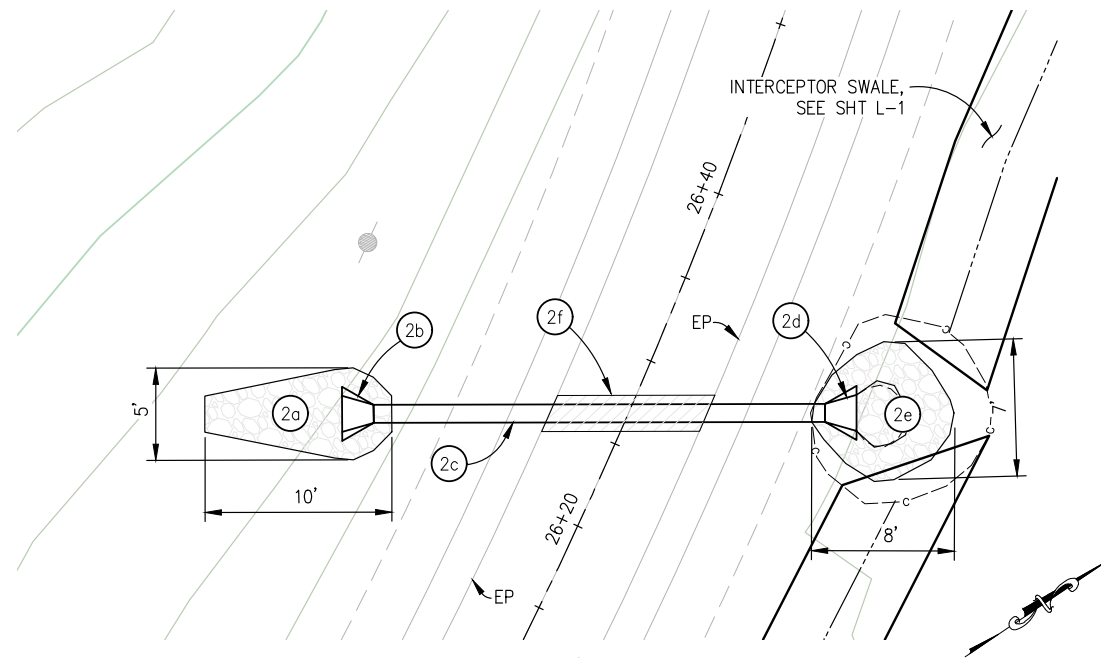
SHEET  
**C-1**  
 6 OF 10  
 W.O. No. **72313**

ORIGINAL SCALE IS IN INCHES  
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 FOR REDUCED PLANS  
 2  
 1  
 0



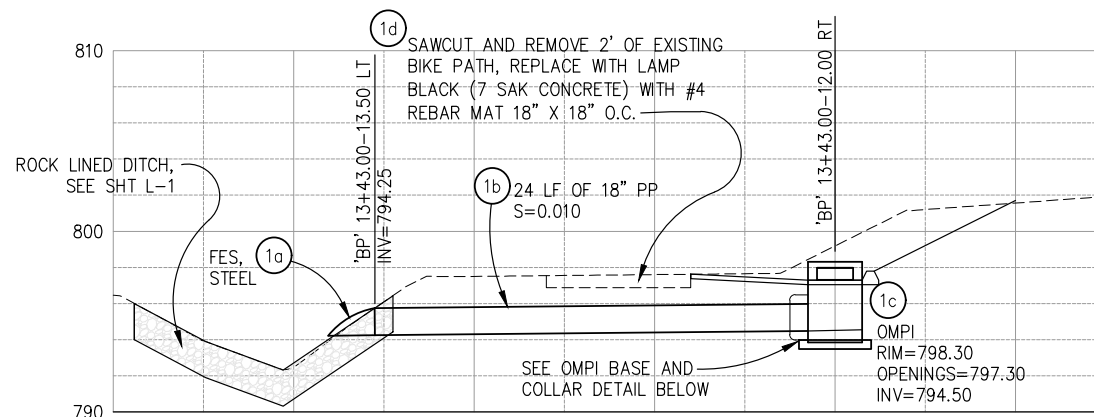
**SD SYSTEM 1 - PLAN**

SCALE: 1"=5'



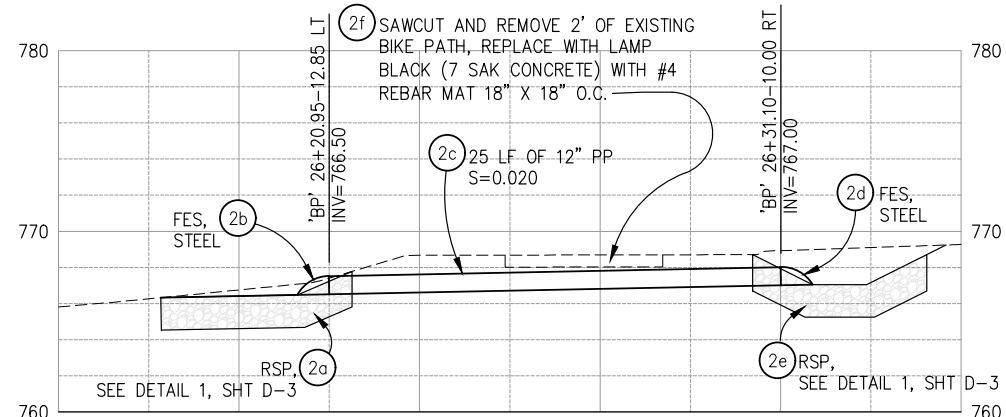
**SD SYSTEM 2 - PLAN**

SCALE: 1"=5'



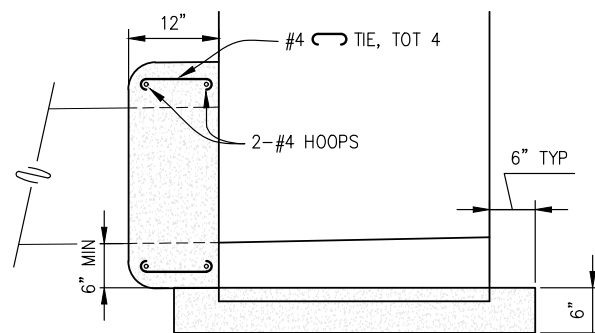
**SD SYSTEM 1 - PROFILE**

SCALE: 1"=5' H,V



**SD SYSTEM 2 - PROFILE**

SCALE: 1"=5' H,V



**OMPI BASE AND PIPE COLLAR**

NTS

**DRAINAGE  
SCALE : AS SHOWN**

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
  
 REGISTERED CIVIL ENGINEER  
 DATE: 05/20/20

DESIGNED: ZO  
 DRAWN: SGM  
 CHECKED: ZO  
 DATE: 04/13/20  
 ROAD NUMBER: 2347

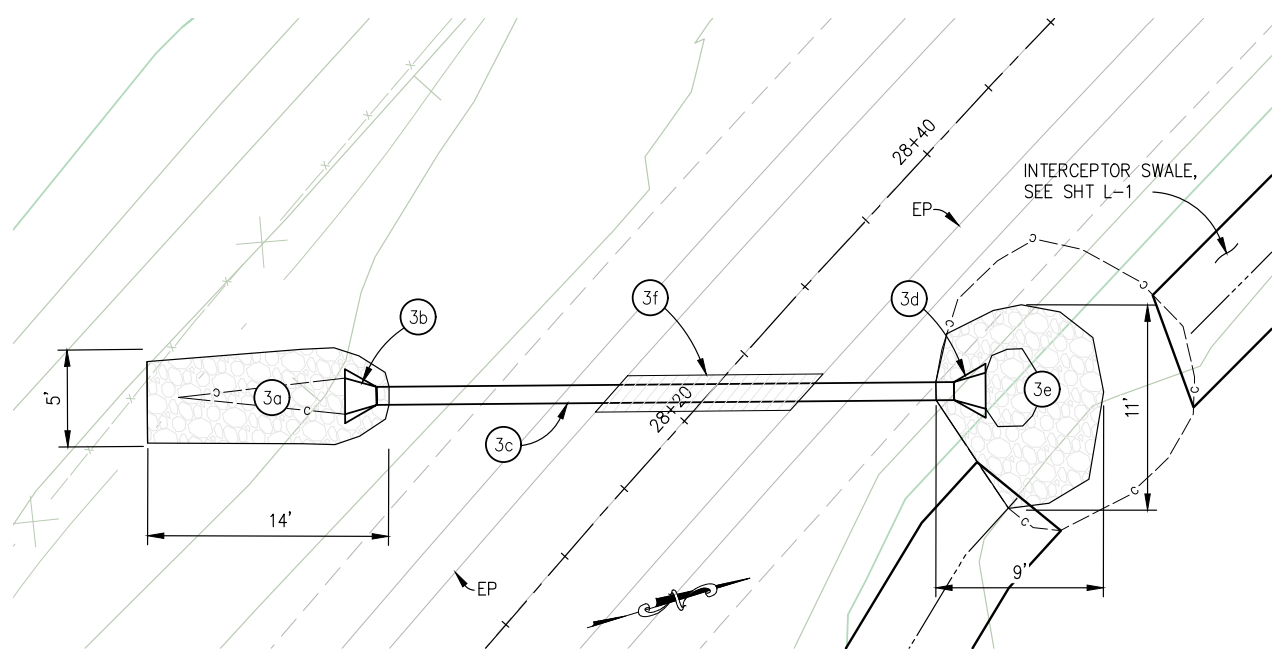


**COUNTY OF EL DORADO  
DEPARTMENT OF TRANSPORTATION**

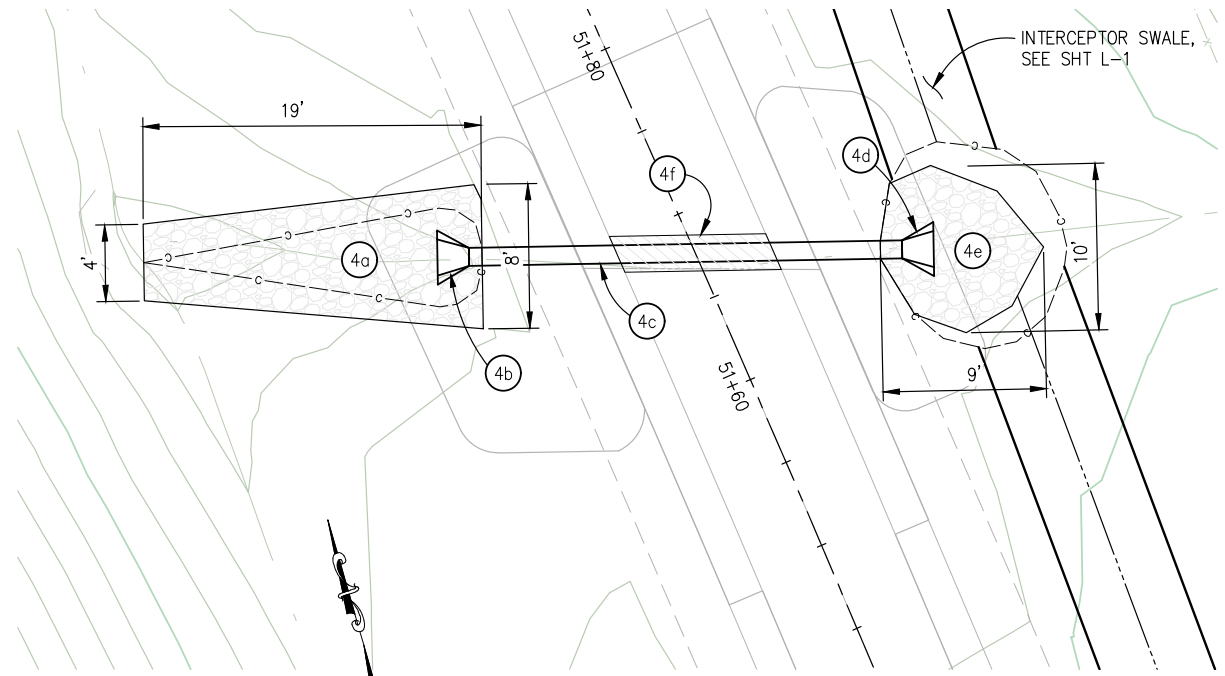
**SILVA VALLEY BIKE PATH DRAINAGE  
IMPROVEMENTS**

SHEET  
**D-1**  
 7 OF 10  
 W.O. No. **72313**

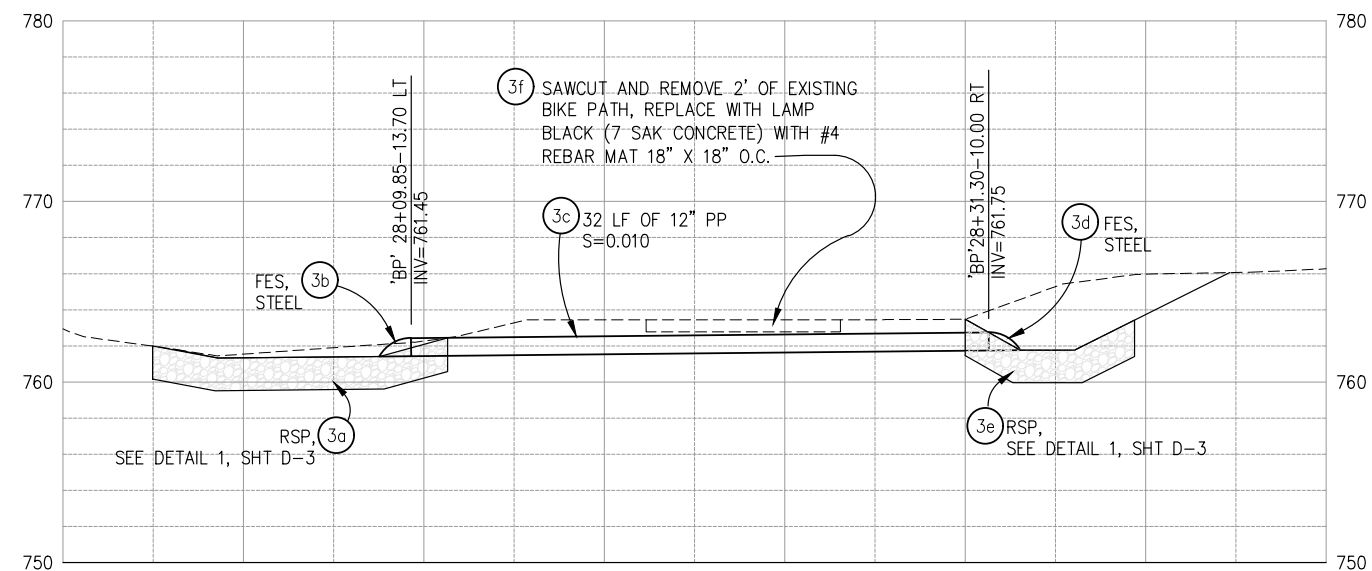
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 FOR REDUCED PLANS  
 REVISION  
 2  
 1  
 0



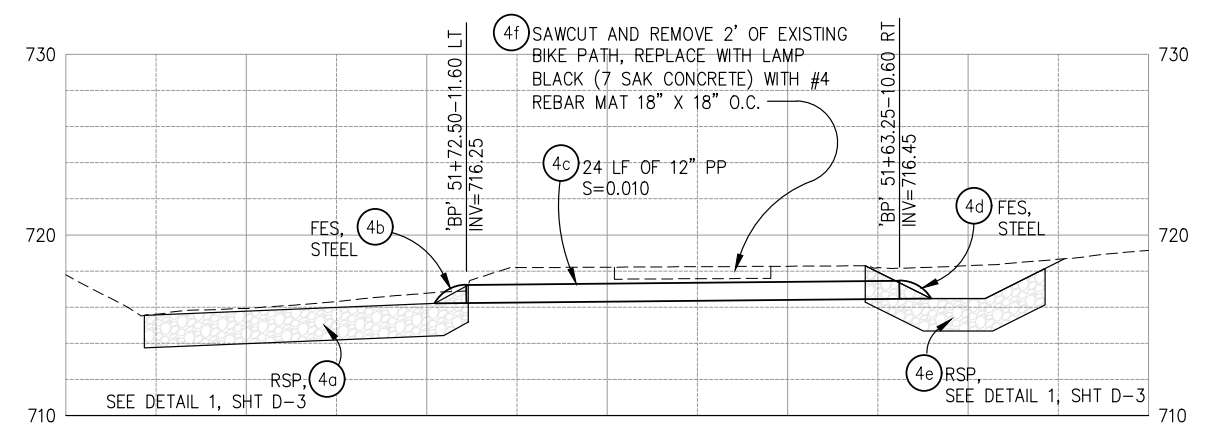
**SD SYSTEM 3 - PLAN**  
SCALE: 1"=5'



**SD SYSTEM 4 - PLAN**  
SCALE: 1"=5'



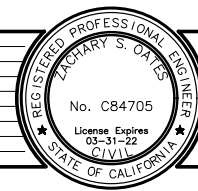
**SD SYSTEM 3 - PROFILE**  
SCALE: 1"=5' H,V



**SD SYSTEM 4 - PROFILE**  
SCALE: 1"=5' H,V

**DRAINAGE SCALE : AS SHOWN**

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
  
 REGISTERED CIVIL ENGINEER  
 DATE: 05/20/20

DESIGNED: ZO  
 DRAWN: SGM  
 CHECKED: ZO  
 DATE: 04/13/20  
 ROAD NUMBER: 2347



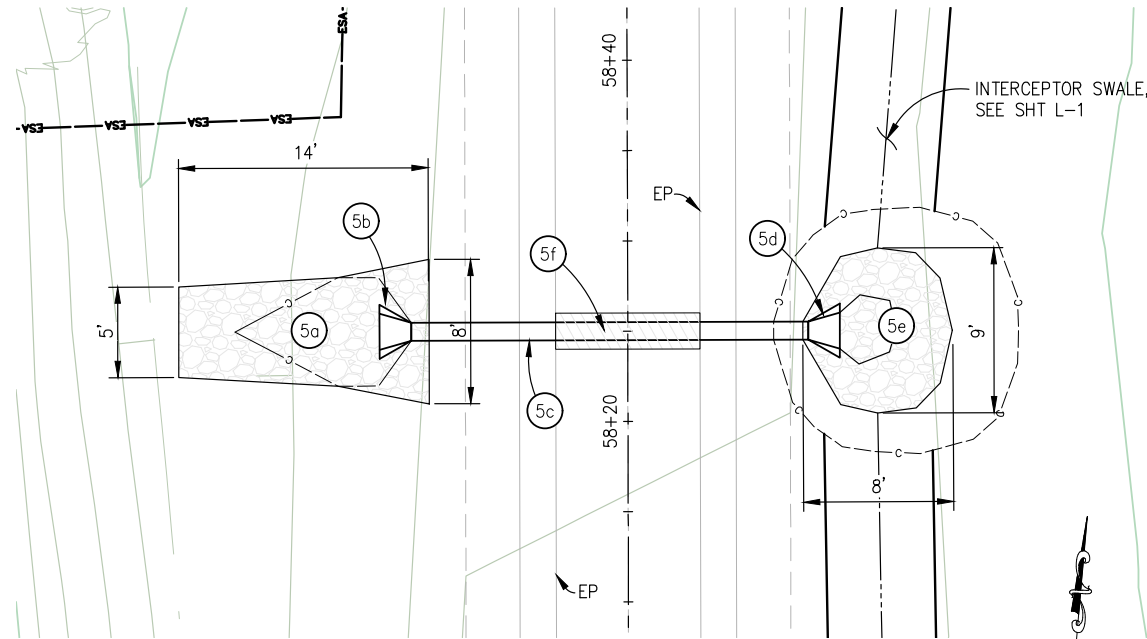
**COUNTY OF EL DORADO DEPARTMENT OF TRANSPORTATION**

**SILVA VALLEY BIKE PATH DRAINAGE IMPROVEMENTS**

SHEET  
**D-2**  
 8 OF 10  
 W.O. No. **72313**

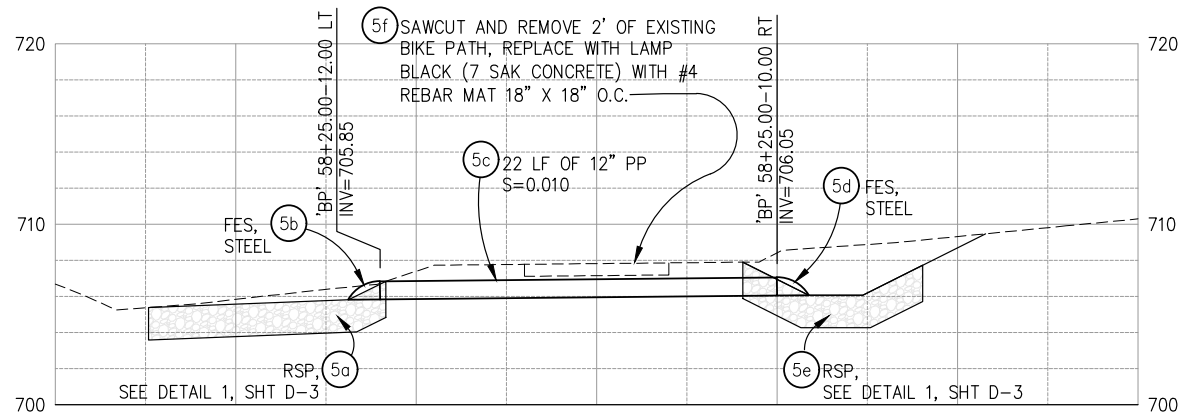


ORIGINAL SCALE IS IN INCHES  
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 FOR REDUCED PLANS  
 REVISION  
 NUMBER DATE DESCRIPTION BY



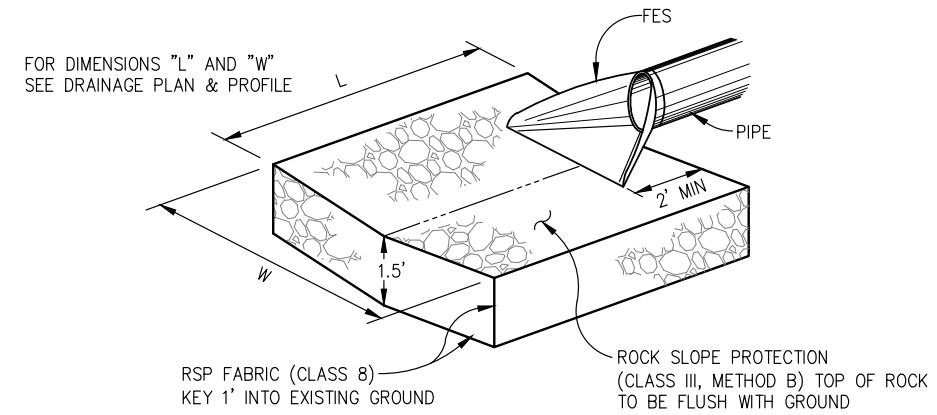
**SD SYSTEM 5 - PLAN**

SCALE: 1"=5'



**SD SYSTEM 5 - PROFILE**

SCALE: 1"=5' H,V



**1 ROCK ENERGY DISSIPATOR**  
NTS

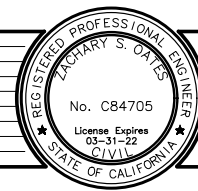
DRAINAGE PLAN SHEET NO.	DRAINAGE SYSTEM NO.	DRAINAGE UNIT	DI (TYPE OMP)	H INLET DEPTH [N]	12" PLASTIC PIPE	18" PLASTIC PIPE	FLARED END SECTION (FES) (STEEL)	RSP	RSP FABRIC	CONCRETE PATCH	DESCRIPTION	STATION	DRAINAGE UNIT	DRAINAGE SYSTEM NO.	DRAINAGE PLAN SHEET NO.		
D-1	1	a	EA	FT	FT	FT	EA	CY	SY	CY		'BP' 13+43.00-13.50 LT	a	1	D-1		
			b			24						S=0.010	'BP' 13+43.00-12.00 RT			b	
			c	1	4							0.2	CONCRETE PATCH			c	
			d													d	
D-1	2	a						3	16			'BP' 26+20.92-12.85 LT	a	2	D-1		
			b										S=0.020			'BP' 26+31.10-10.00 RT	b
			c			25										c	
			d						1							d	
			e							3	14					e	
			f									0.2	CONCRETE PATCH			f	
D-2	3	a						4	20			'BP' 28+09.85-13.70 LT	a	3	D-2		
			b										S=0.010			'BP' 28+31.30-10.00 RT	b
			c			32										c	
			d						1							d	
			e							6	20					e	
			f									0.3	CONCRETE PATCH			f	
D-2	4	a						6	29			'BP' 51+72.50-11.60 LT	a	4	D-2		
			b										S=0.010			'BP' 51+63.25-10.60 RT	b
			c			24										c	
			d						1							d	
			e							5	20					e	
			f									0.3	CONCRETE PATCH			f	
D-3	5	a						4	28			'BP' 58+25.00-12.00 LT	a	5	D-3		
			b										S=0.010			'BP' 58+25.00-10.0 RT	b
			c			22										c	
			d						1							d	
			e							4	17					e	
			f									0.2	CONCRETE PATCH			f	
TOTAL			1		103	24	9	35	164	1.2							

**NOTES:**

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

**DRAINAGE SCALE : AS SHOWN**

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
*[Signature]*  
 REGISTERED CIVIL ENGINEER  
 DATE: 05/20/20

DESIGNED: ZO  
 DRAWN: SGM  
 CHECKED: ZO  
 DATE: 04/13/20  
 ROAD NUMBER: 2347

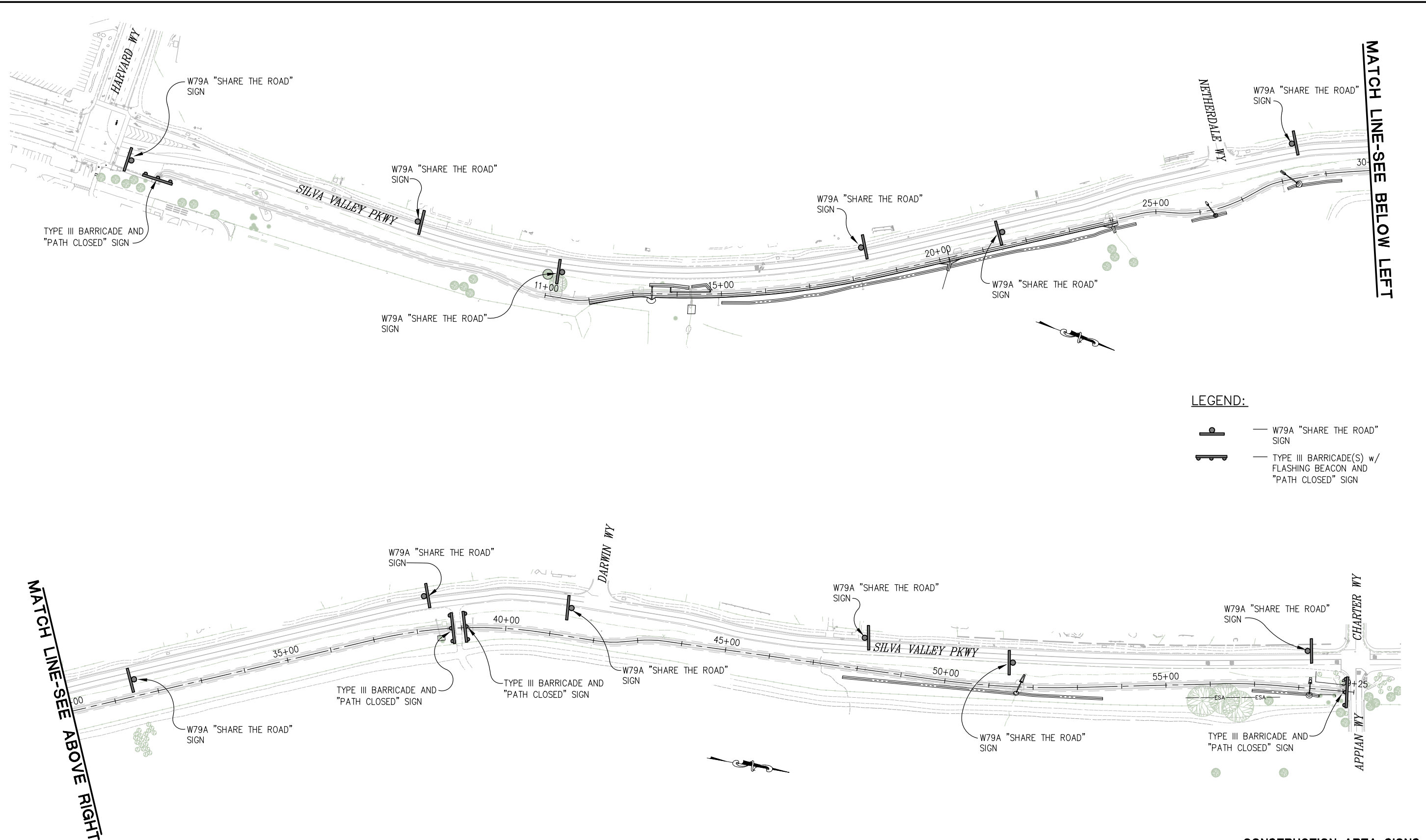


**COUNTY OF EL DORADO DEPARTMENT OF TRANSPORTATION**



**SILVA VALLEY BIKE PATH DRAINAGE IMPROVEMENTS**

SHEET  
**D-3**  
 9 OF 10  
 W.O. No. **72313**

ORIGINAL SCALE IS IN INCHES  
 Drawing name: C:\Civil\_3D\Projects\72313\_SVP\_Bike\_Path\_Drainage\_Improvements\CADD\_Files\Sheets\CS-Sheets.dwg Layout Tab: CS-1 May 20, 2020 - 12:00pm SMCvey  
 FOR REDUCED PLANS



**LEGEND:**

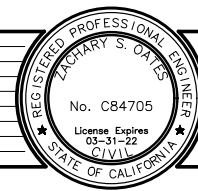
-  — W79A "SHARE THE ROAD" SIGN
-  — TYPE III BARRICADE(S) w/ FLASHING BEACON AND "PATH CLOSED" SIGN

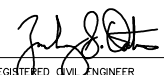
MATCH LINE-SEE ABOVE RIGHT

MATCH LINE-SEE BELOW LEFT

**CONSTRUCTION AREA SIGNS  
SCALE : 1" = 100'**

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF :  
  
 REGISTERED CIVIL ENGINEER  
 DATE: 05/20/20

DESIGNED: ZO  
 DRAWN: SGM  
 CHECKED: ZO  
 DATE: 02/28/20  
 ROAD NUMBER: 2347



**COUNTY OF EL DORADO  
 DEPARTMENT OF TRANSPORTATION**

**SILVA VALLEY BIKE PATH DRAINAGE  
 IMPROVEMENTS**

SHEET  
**CS-1**  
 10 OF 10  
 W.O. No. **72313**