

**RIO GRANDE RESERVOIR
2017 PROPOSED WORK
DOWNSTREAM ACCESS ROAD**

INTRODUCTION

San Luis Valley Irrigation District (SLVID) plans to construct the new access road to the downstream toe of the dam in September and October 2017. The new road would be built at a maximum of 10 percent grade and 20 feet wide. This would replace the existing narrow road with grades as steep as 19 percent. The new road will allow delivery of materials (pipe, valves, and concrete) by truck for the ultimate rehabilitation project.

PURPOSE

The purpose of road construction this fall is to take this work off the critical path of overall construction and perform the work at less cost by utilizing a small specialty earthwork contractor familiar with the site. Having good site access during the pre-bid conference for contractors for the overall project is likely to produce more favorable bids. The access road is also a dam safety enhancement which allows large equipment to be mobilized quickly.

LAYOUT

The final proposed work is shown on the four attached plan sheets. The work would be built as shown on the plans up to station 7+40. From station 7+40 to station 10+50, the road grade would be lowered from plan to get to the existing river level.

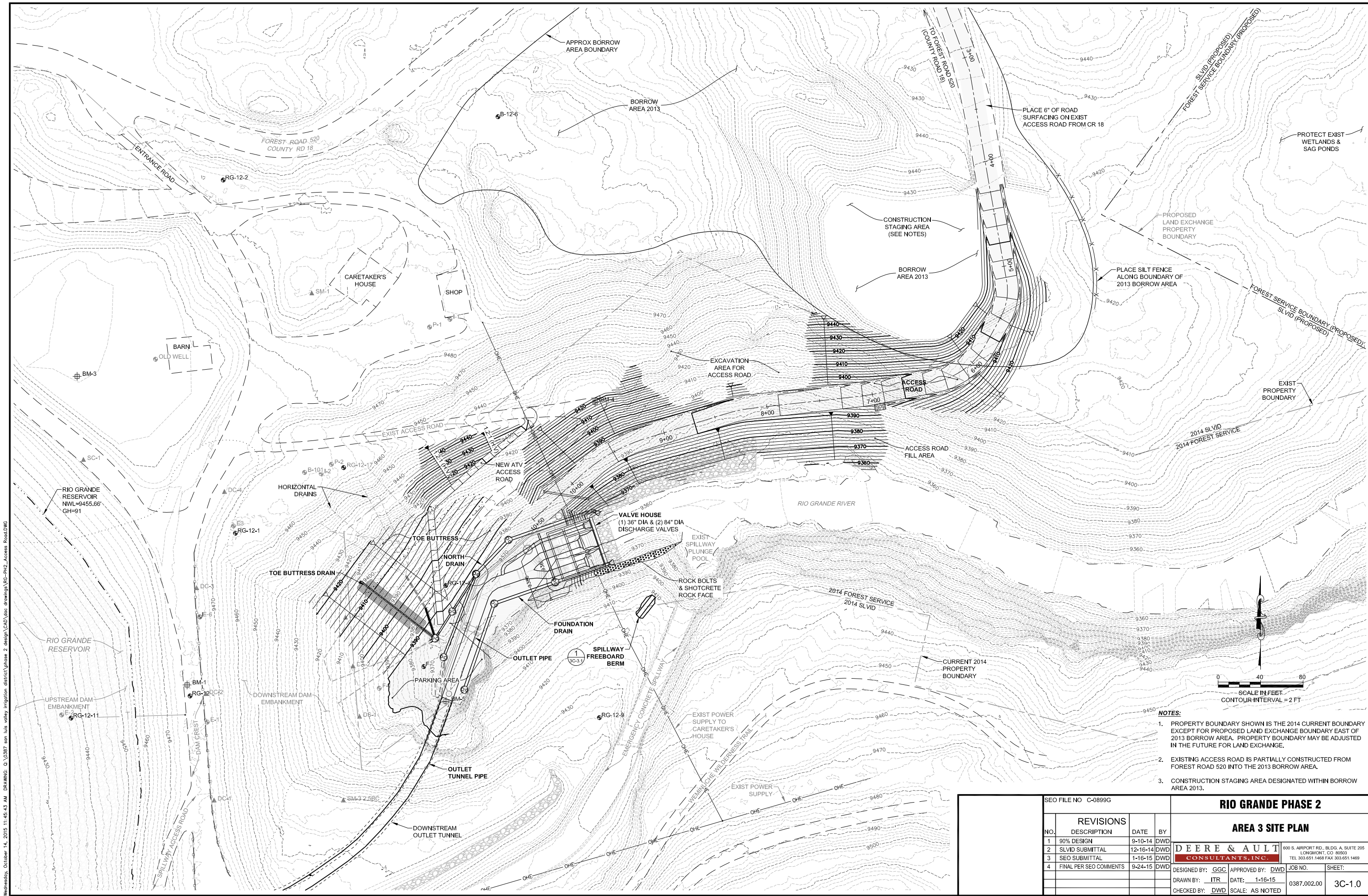
The left bank of the river would be armored with very large riprap as shown on sheet 3C-2.2 with the access road built to about elevation 9380 feet.

COST

SLVID will contract with Brad Moore. He performed the Phase 1 slope liner in 2013 on budget, and is familiar with site conditions. His bid is for \$401,085 (see attached), which is approximately 65 percent of the previous bid by Atkinson that included prime contractor mark-ups. Deere & Ault Consultants (D&A) estimates \$35,000 in engineering support, for a total project cost of \$436,085. The work would be constructed in September and October 2017.

970-218-2429		Rio Grande Reservoir			
MCMS, Inc.		"Access Road - Fall of 2017"			
8888 Glade Road					
Loveland, Colorado 80538					
July 19th - 2017					
Bid	Description	Quan.	Unit	Bid	Total
Item				Unit	
1	Mobilization - includes surveying	1	LS	\$ 98,160.00	\$ 98,160.00
2	Slope Ex. - (Includes Misc. Com. Fill)	11,800	CY	\$ 12.00	\$ 141,600.00
3	Boulder Rip Rap	1,875	CY	\$ 22.00	\$ 41,250.00
4	Rock fill	1,500	CY	\$ 25.00	\$ 37,500.00
5	18" dia. D.I.P.	300	LF	\$ 200.00	\$ 60,000.00
6	18" Bends	3	EA	\$ 935.00	\$ 2,805.00
7	18" Flap Valve	1	EA	\$ 1,200.00	\$ 1,200.00
8	18" Blind Flange	1	EA	\$ 800.00	\$ 800.00
9	Culverts	1	EA	\$ 2,670.00	\$ 2,670.00
10	Erosion Control	1	LS	\$ 2,500.00	\$ 2,500.00
11	Seeding	3	AC	\$ 4,200.00	\$ 12,600.00
				Total =	\$ 401,085.00
Notes: 1. Excludes blasting if required					
	2. Excludes screening of materials				
	3. Includes rough-in of access road				
	to the Intake Structure and Coffe Dam				
	down to existing water level.				
Excusions: Testing & Permits					

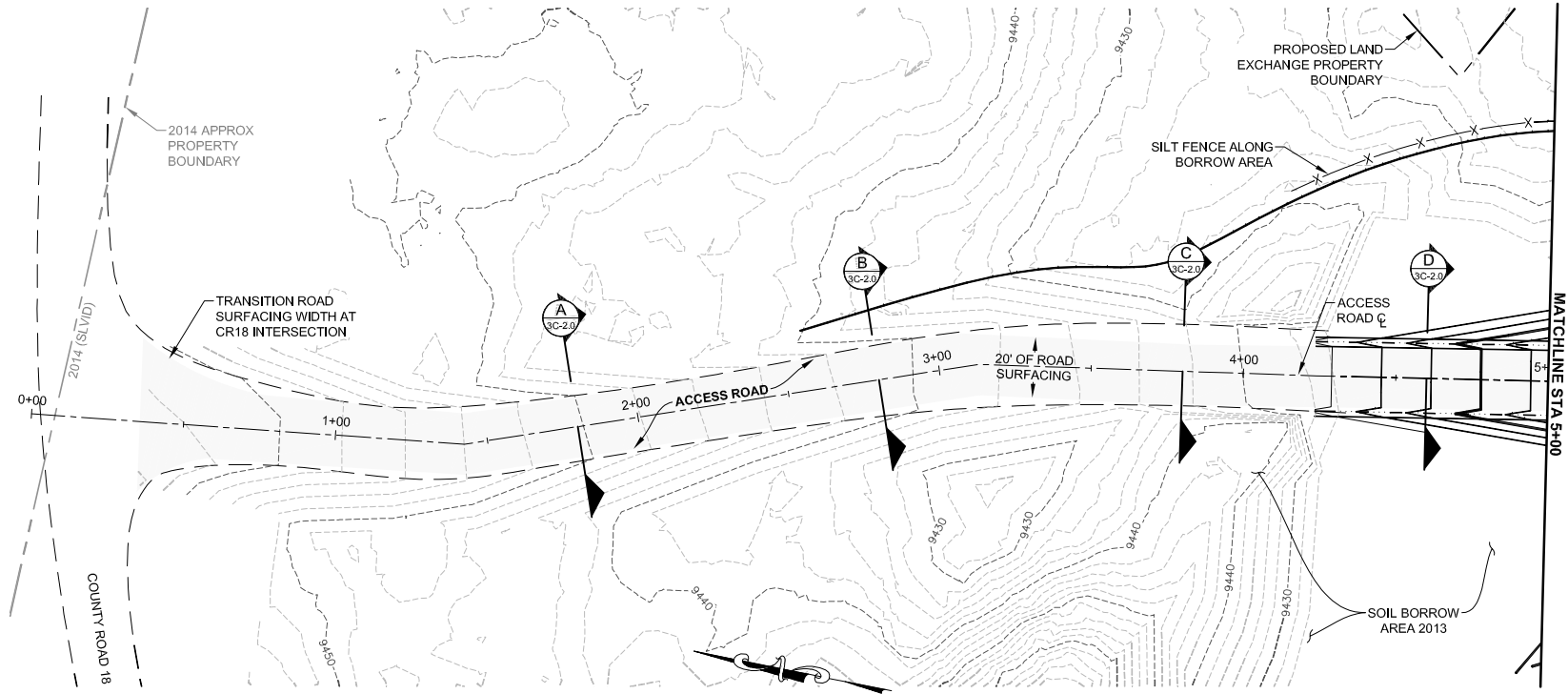
Wednesday, October 14, 2015 11:45:43 AM DRAWING: Q:\0387 son luis valley irrigation district\phase 2 design\CAD\doc drawings\RG-P12 Access Road.DWG



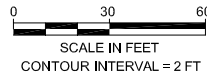
- NOTES:**
1. PROPERTY BOUNDARY SHOWN IS THE 2014 CURRENT BOUNDARY EXCEPT FOR PROPOSED LAND EXCHANGE BOUNDARY EAST OF 2013 BORROW AREA. PROPERTY BOUNDARY MAY BE ADJUSTED IN THE FUTURE FOR LAND EXCHANGE.
 2. EXISTING ACCESS ROAD IS PARTIALLY CONSTRUCTED FROM FOREST ROAD 520 INTO THE 2013 BORROW AREA.
 3. CONSTRUCTION STAGING AREA DESIGNATED WITHIN BORROW AREA 2013.

SE0 FILE NO C-0899G				RIO GRANDE PHASE 2			
REVISIONS				AREA 3 SITE PLAN			
NO.	DESCRIPTION	DATE	BY	DEERE & AULT CONSULTANTS, INC.			
1	90% DESIGN	9-10-14	DWD	DESIGNED BY: GGC APPROVED BY: DWD			
2	SLVID SUBMITTAL	12-16-14	DWD	DRAWN BY: ITR DATE: 1-16-15			
3	SEO SUBMITTAL	1-16-15	DWD	CHECKED BY: DWD SCALE: AS NOTED			
4	FINAL PER SEO COMMENTS	9-24-15	DWD	JOB NO. 0387.002.00 SHEET: 3C-1.0			

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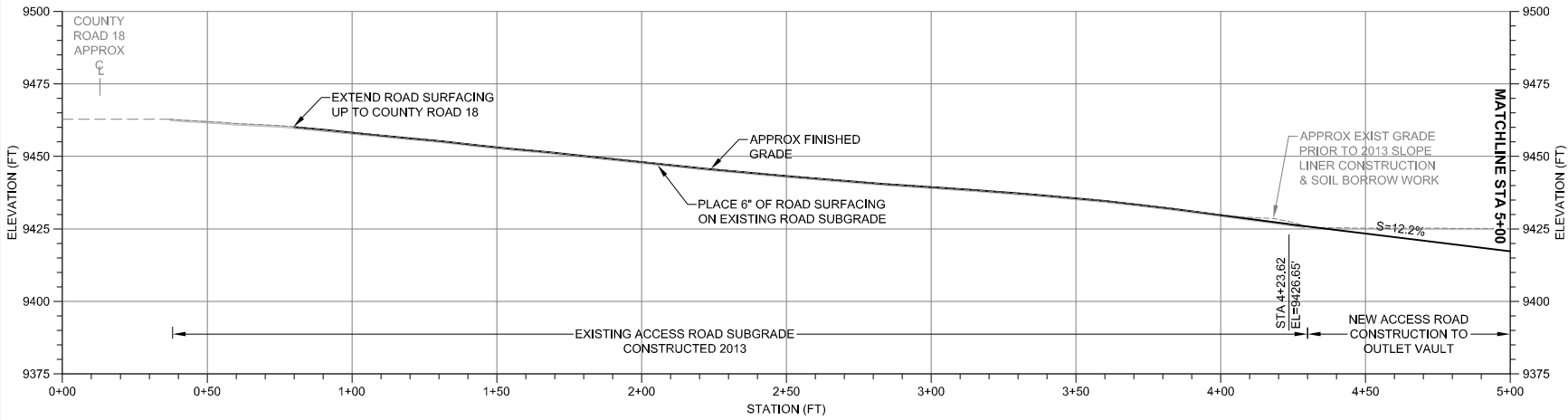


ACCESS ROAD PLAN
STA 0+00 TO STA 5+00

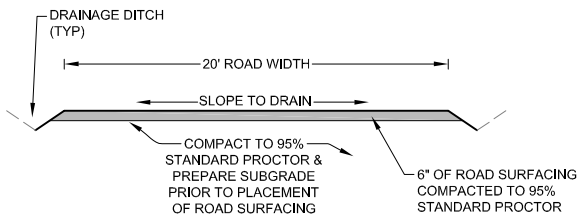


NOTES:

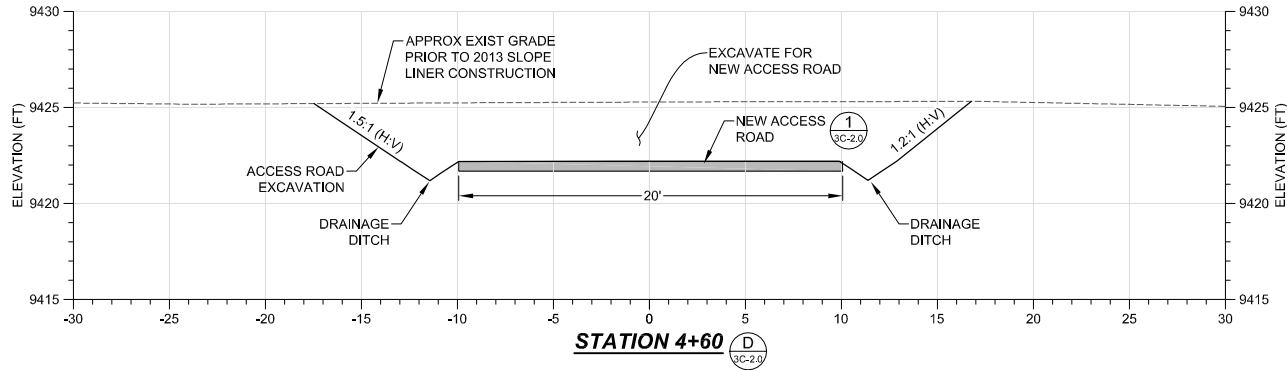
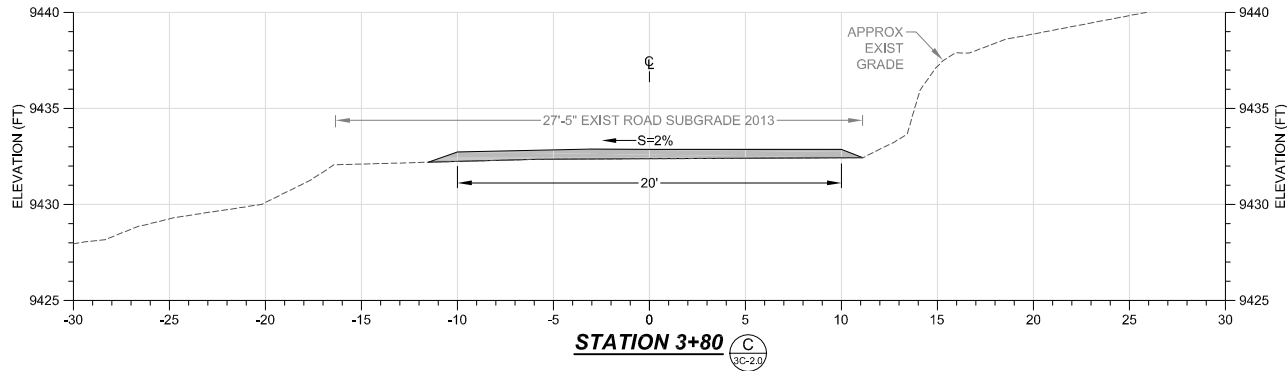
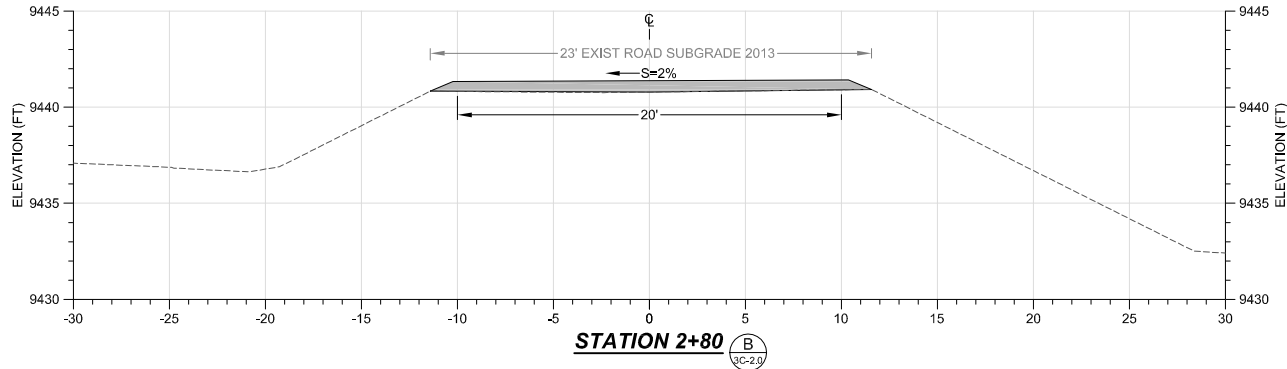
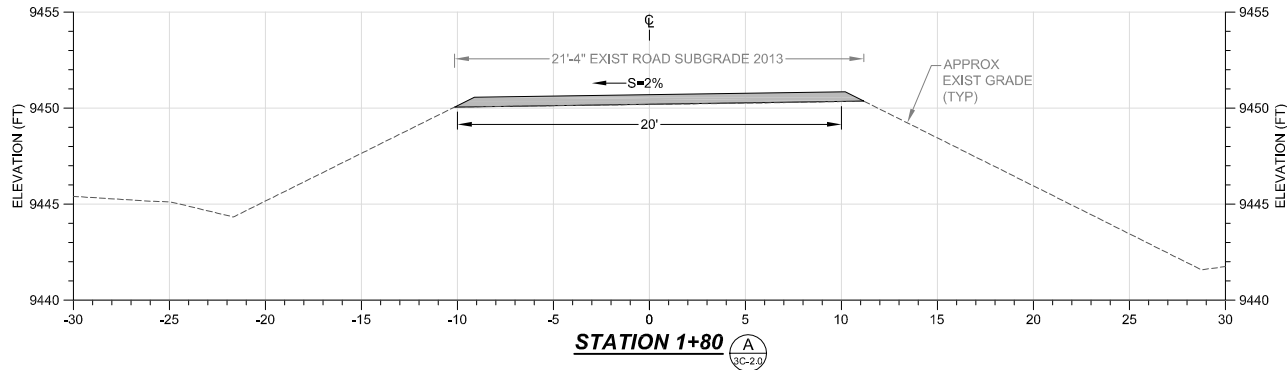
- EXISTING ACCESS ROAD CONSTRUCTED IN 2013 AND WAS "AS-BUILT" SURVEYED BY DAVIS ENGINEERING.
- LOCATION OF COUNTY ROAD 18 IS APPROXIMATED FROM 2013 AERIAL PHOTOGRAPH.
- CONTOURS WITHIN 2013 SOIL BORROW AREA ARE APPROXIMATED.



ACCESS ROAD PROFILE
STA 0+00 TO STA 5+00



TYPICAL ACCESS ROAD SECTION 1



SEO FILE NO C-0899G

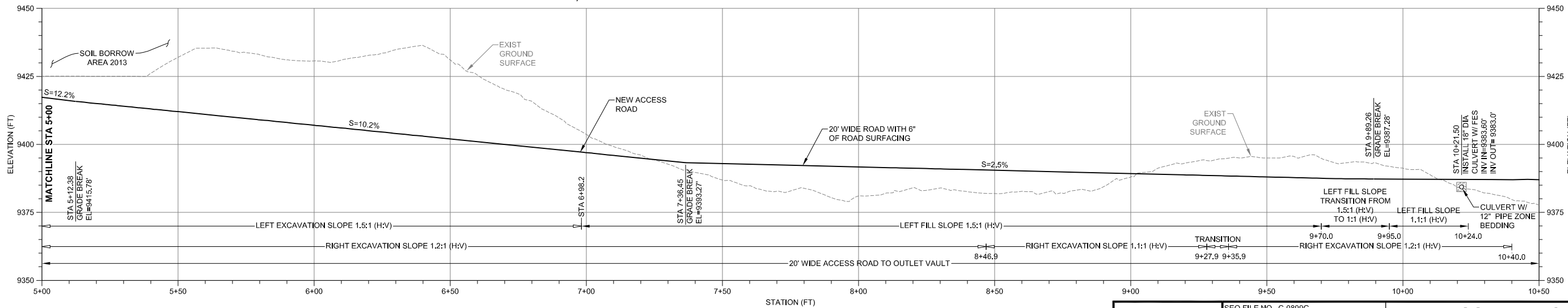
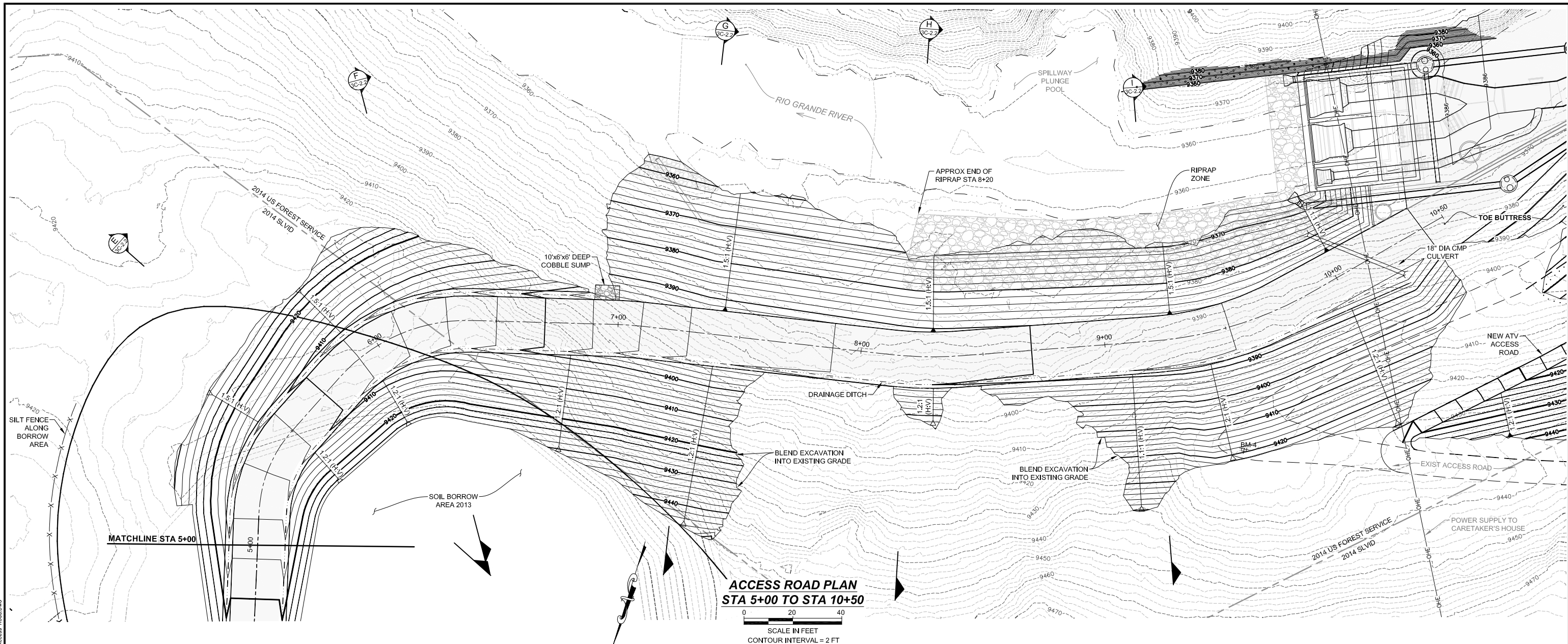
NO.	DESCRIPTION	DATE	BY
1	90% DESIGN	9-10-14	DWD
2	SLVID SUBMITTAL	12-16-14	DWD
3	SEO SUBMITTAL	1-16-15	DWD
4	FINAL PER SEO COMMENTS	9-24-15	DWD

RIO GRANDE PHASE 2			
ACCESS ROAD PLAN & PROFILE			
STA 0+00 TO STA 5+00			
DESIGNED BY: GGC		APPROVED BY: DWD	JOB NO.
DRAWN BY: ITR		DATE: 1-16-15	SHEET:
CHECKED BY: DWD		SCALE: AS NOTED	

600 S. AIRPORT RD., BLDG. A, SUITE 205
LONGMONT, CO 80503
TEL 303.651.1468 FAX 303.651.1469

0387.002.00 3C-2.0

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NOTES:

- CONTRACTOR SHALL PHASE THE ACCESS ROAD CONSTRUCTION FROM STA 8+00 TO 10+50 (ALONG RIVER) AND TEST THE FLOW OF THE LARGE CONE VALVES UNDER RELATIVELY LARGE FLOWS TO OBSERVE THE DISCHARGE CHARACTERISTICS AND ADJUST FINAL ALIGNMENT AND LOCATION OF ROAD, DRAINLINES & RIPRAP PROTECTION.

**ACCESS ROAD PROFILE
STA 5+00 TO STA 10+50**

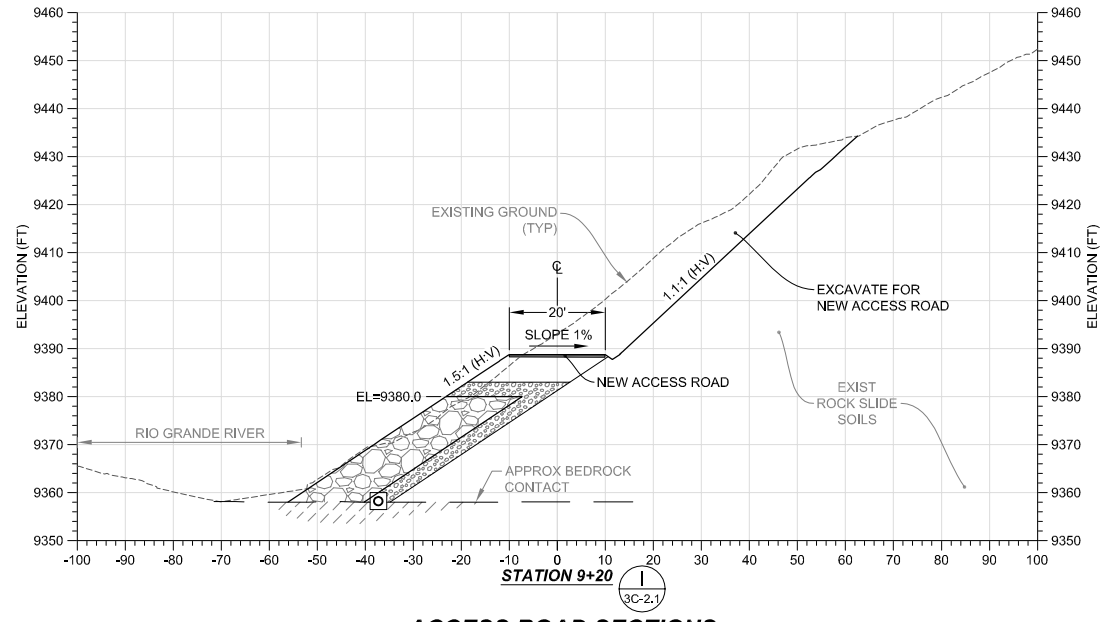
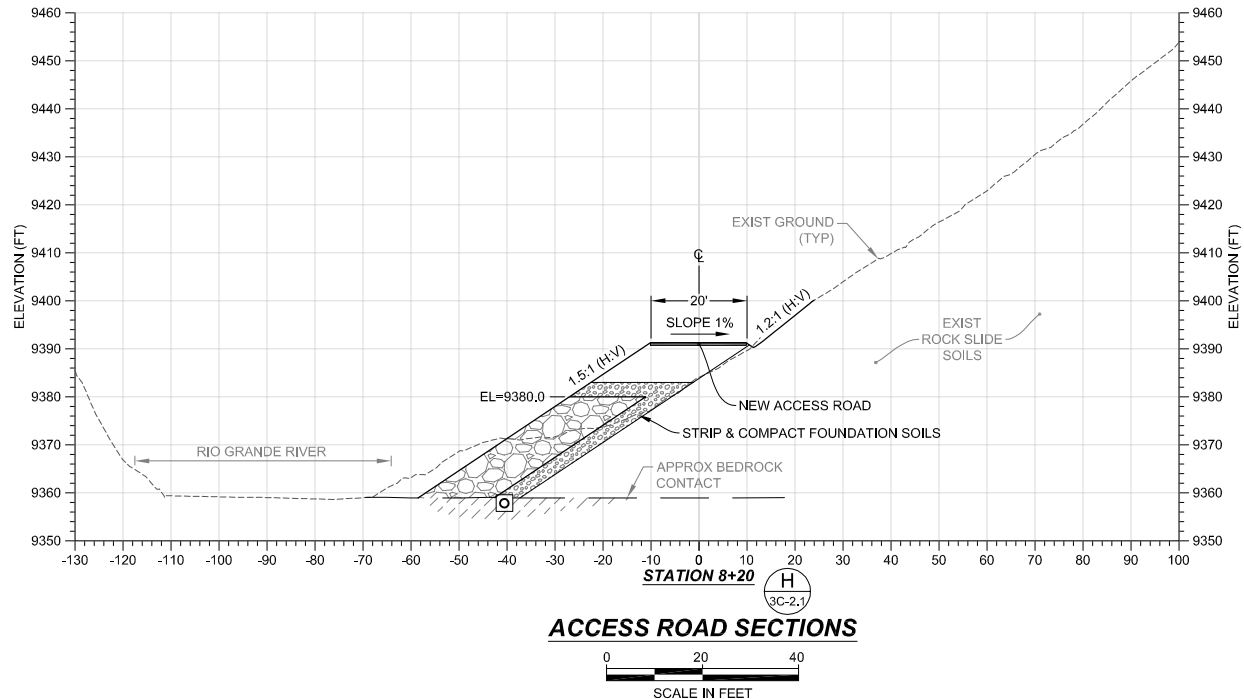
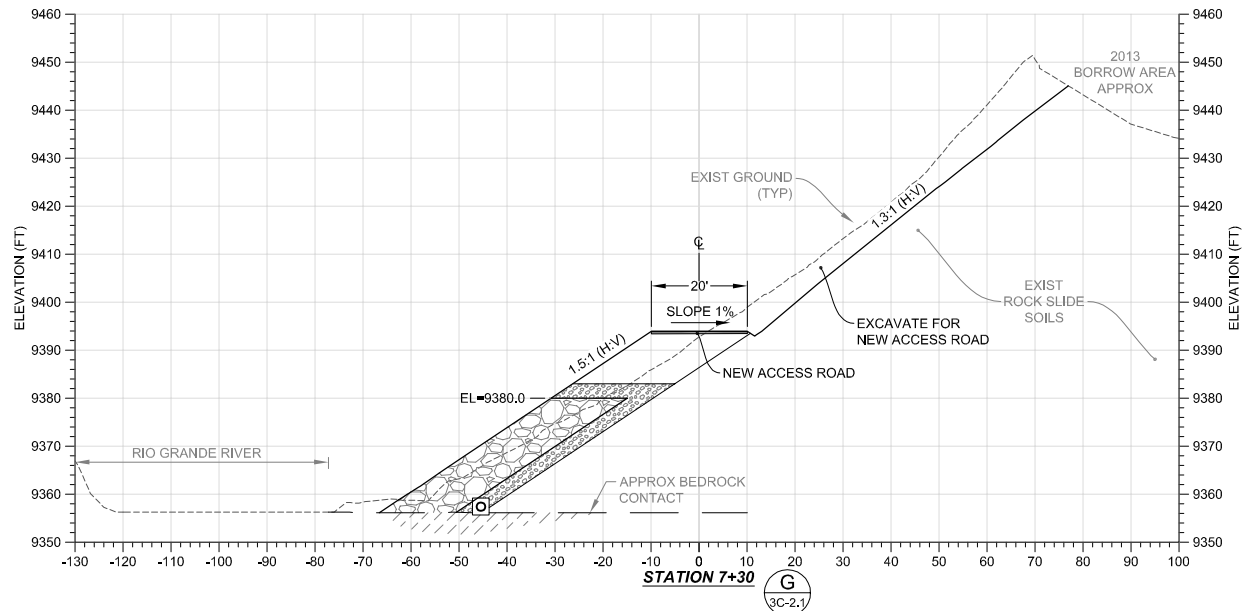
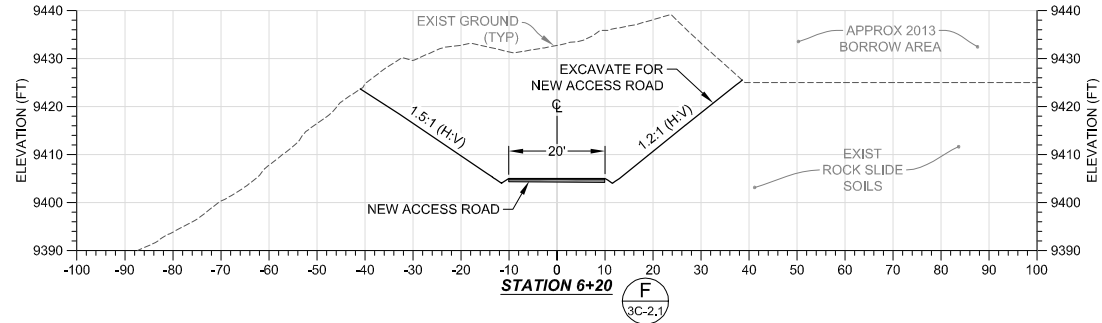
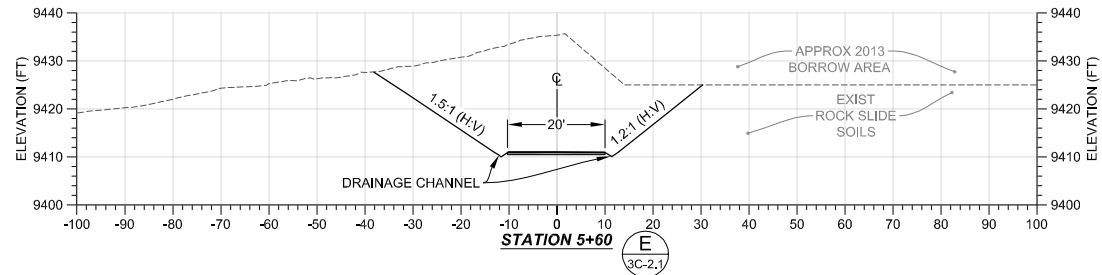


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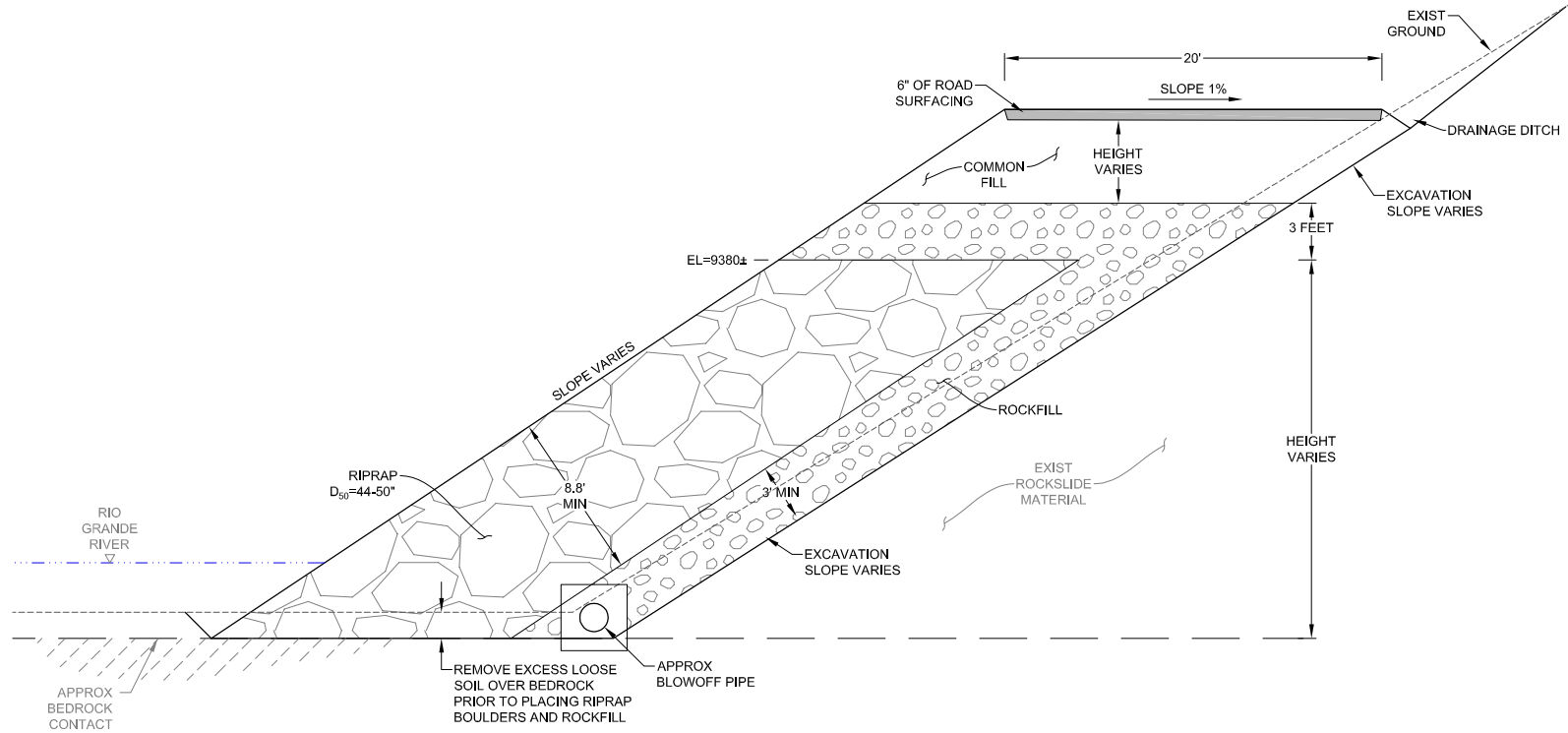
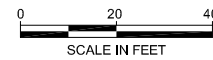
REVISIONS			
NO.	DESCRIPTION	DATE	BY
1	90% DESIGN	9-10-14	DWD
2	SLVID SUBMITTAL	12-16-14	DWD
3	SEO SUBMITTAL	1-16-15	DWD
4	FINAL PER SEO COMMENTS	9-24-15	DWD

RIO GRANDE PHASE 2			
ACCESS ROAD PLAN & PROFILE STA 5+00 TO STA 10+50			
DEERE & AULT CONSULTANTS, INC.		600 S. AIRPORT RD., BLDG. A, SUITE 205 LONGMONT, CO 80503 TEL 303.651.1458 FAX 303.651.1469	
DESIGNED BY: GGC	APPROVED BY: DWD	JOB NO.	SHEET:
DRAWN BY: ITR	DATE: 1-16-15	0387.002.00	3C-2.1
CHECKED BY: DWD	SCALE: AS NOTED		

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ACCESS ROAD SECTIONS



SE0 FILE NO C-0899G				RIO GRANDE PHASE 2			
REVISIONS				ACCESS ROAD SECTIONS			
NO.	DESCRIPTION	DATE	BY	STA 5+60 TO STA 9+20			
1	90% DESIGN	9-10-14	DWD	DEERE & AULT CONSULTANTS, INC.			
2	SLVID SUBMITTAL	12-16-14	DWD				
3	SEO SUBMITTAL	1-16-15	DWD	DESIGNED BY: GGC	APPROVED BY: DWD	JOB NO.	SHEET:
4	FINAL PER SEO COMMENTS	9-24-15	DWD	DRAWN BY: ITR	DATE: 1-16-15	0387.002.00	3C-2.2
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