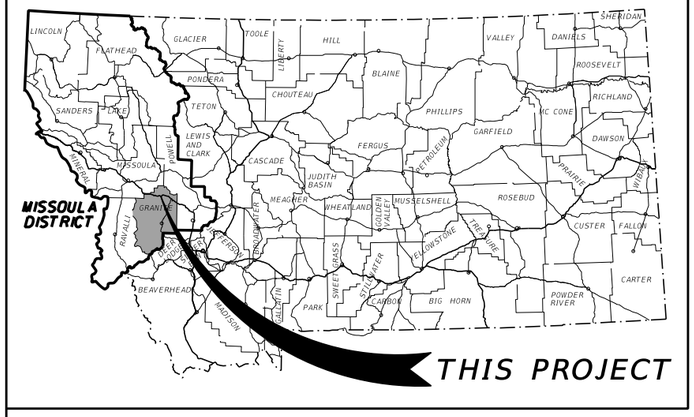
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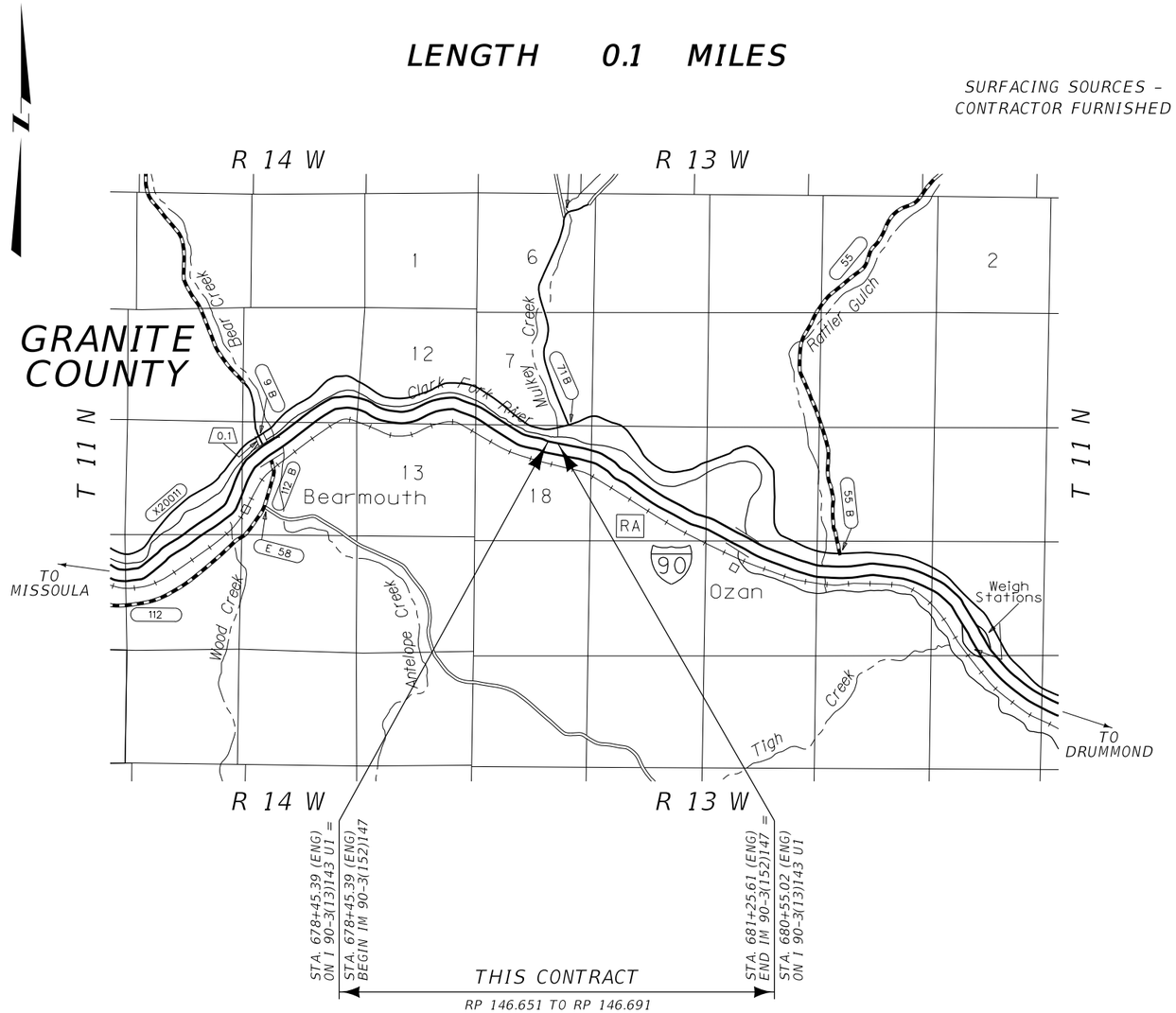
MONTANA DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT IM 90-3(152)147
EROSION REPAIR
I-90 EROSION - W OF DRUMMOND
GRANITE COUNTY

LETTING DATE - _____

LENGTH 0.1 MILES

SURFACING SOURCES -
CONTRACTOR FURNISHED



MONTANA
DEPARTMENT OF TRANSPORTATION

MICHAEL T. TOOLEY
DIRECTOR OF TRANSPORTATION

APPROVED BY:

HIGHWAYS
ENGINEER

DocuSigned by:
Damian Krings
1C71361CE866454...

2/25/2021
DATE

MONTANA
DAMIAN
KRINGS
12113PE
PROFESSIONAL ENGINEER
LICENSED

ASSOCIATED PROJECT AGREEMENT NUMBERS	
R / W	IM 90-3(153)147
I.C.	
P. E.	IM 90-3(151)147

3 2	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9917000rdtl001.dgn	DESIGNED BY	SUE CUSKER	10/21/2020	ROAD PLANS
		1/7/2021	REVIEWED BY	BEN NUNNALLEE	12/05/2020	
		1:45:43 PM CPS - U3162	CHECKED BY	JOY FLEMING	12/10/2020	UPN 9917000

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NOTES

UTILITIES

CALL THE UTILITIES UNDERGROUND LOCATION CENTER (811) OR OTHER NOTIFICATION SYSTEM FOR THE MARKING AND LOCATION OF ALL LINES AND SERVICES BEFORE EXCAVATING. ALL CLEARANCES OR DEPTHS PROVIDED FOR UTILITIES ARE FROM EXISTING GROUND LINE.

AS-BUILTS

FOR HORIZONTAL ALIGNMENT & STATIONING, REFER TO THE FOLLOWING AS-BUILT ENGLISH STATIONS:

PROJECT NAME	COMPLETION DATE
I 90-3(13)143 U1, BEARMOUTH - EAST	APRIL 29, 1971

WETLANDS

WETLANDS MAY EXIST ADJACENT TO THE ROADWAY AND BEYOND THE PROJECT LIMITS. A WETLAND DELINEATION HAS NOT BEEN COMPLETED FOR THIS PROJECT. IMPACTS TO WETLAND AREAS ARE NOT ANTICIPATED IN ASSOCIATION WITH THE PROPOSED WORK. NO PERMITS HAVE BEEN OBTAINED. ANY ACTION IMPACTING WETLAND AREAS WITHOUT THE APPROPRIATE PERMITTING IS THE RESPONSIBILITY OF THE CONTRACTOR.

PTW CENTERLINE ALIGNMENT COORDINATE TABLE

PTW CENTERLINE ALIGNMENT COORDINATE TABLE

STATION	DESCRIPTION	N OR Y COORDINATE	E OR X COORDINATE	REMARKS
677+10.00	POT	920,849.010	1,022,355.411	
685+69.33	POT	920,693.563	1,023,200.568	

GPK NAME: JOB917.GPK CHAIN NAME: PTWCL

LINEAR AND LEVEL DATA

LENGTH OF CHANNEL REPAIR	280.22 ft
TOTAL LENGTH OF IM 90-3(152)147	280.22 ft

BEARING SOURCE

GRID -- MONTANA COORDINATE SYSTEM NAD 83-2011

LEVEL DATUM SOURCE

ELEVATIONS ARE BASED ON LEVELS HOLDING NGS BENCHMARK S447 AND RUNNING DIFFERENTIAL LEVELS THOUGH ONSITE CONTROL.

RIPRAP COORDINATE TABLE

RIPRAP CENTERLINE ALIGNMENT COORDINATE TABLE

STATION	DESCRIPTION	N OR Y COORDINATE	E OR X COORDINATE	REMARKS
678+45.39	POB	920,894.540	1,022,501.447	
679+22.21	PC	920,892.992	1,022,578.252	
679+71.00	PI	920,892.009	1,022,627.030	
680+13.89	PT	920,927.876	1,022,660.102	
681+25.61	POE	921,010.003	1,022,735.831	

GPK NAME: JOB917.GPK CHAIN NAME: RIPRAPCL

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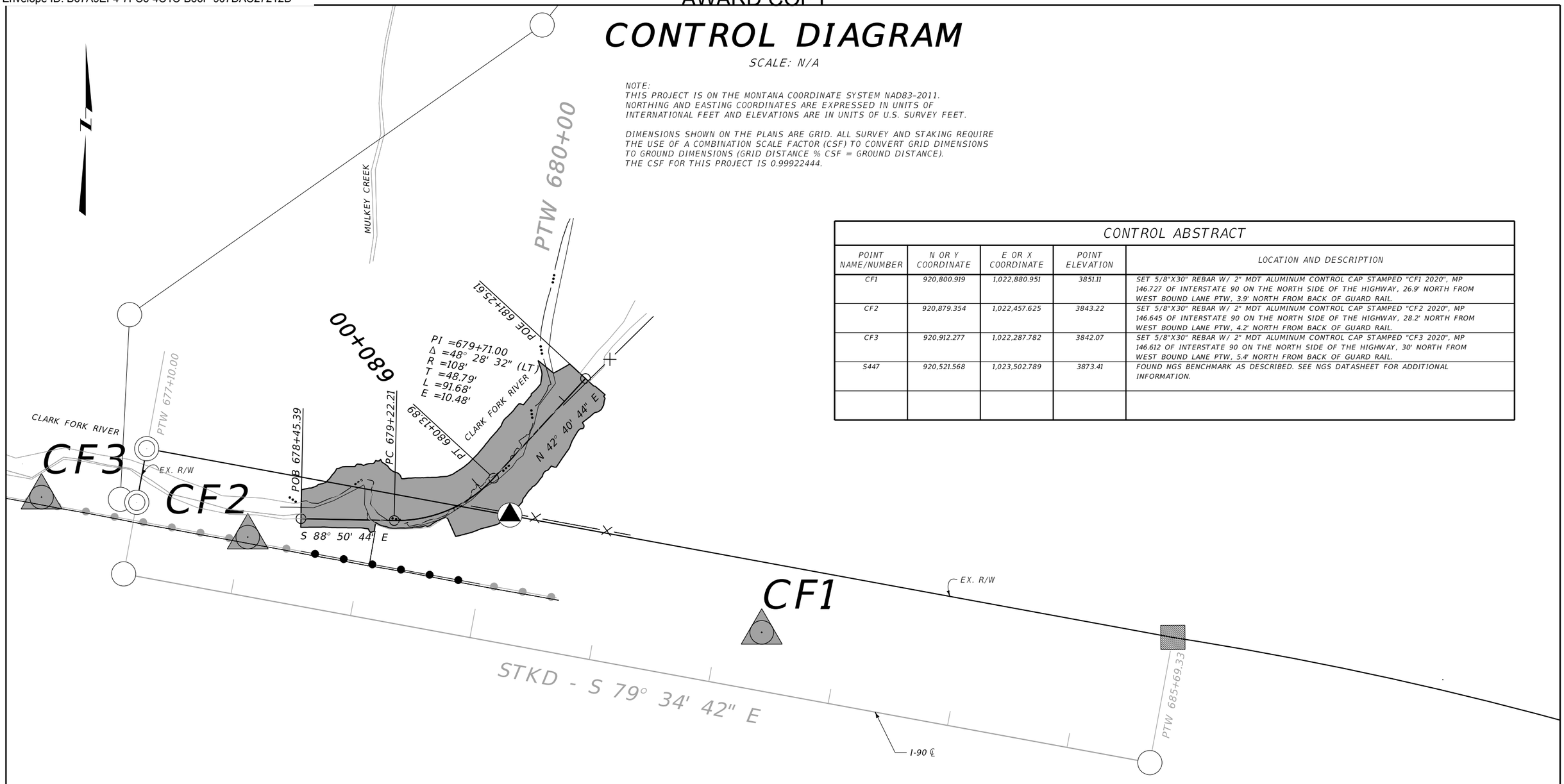
AWARD COPY

CONTROL DIAGRAM

SCALE: N/A

NOTE:
THIS PROJECT IS ON THE MONTANA COORDINATE SYSTEM NAD83-2011.
NORTHING AND EASTING COORDINATES ARE EXPRESSED IN UNITS OF
INTERNATIONAL FEET AND ELEVATIONS ARE IN UNITS OF U.S. SURVEY FEET.

DIMENSIONS SHOWN ON THE PLANS ARE GRID. ALL SURVEY AND STAKING REQUIRE
THE USE OF A COMBINATION SCALE FACTOR (CSF) TO CONVERT GRID DIMENSIONS
TO GROUND DIMENSIONS (GRID DISTANCE % CSF = GROUND DISTANCE).
THE CSF FOR THIS PROJECT IS 0.99922444.



CONTROL ABSTRACT

POINT NAME/NUMBER	N OR Y COORDINATE	E OR X COORDINATE	POINT ELEVATION	LOCATION AND DESCRIPTION
CF1	920,800.919	1,022,880.951	3851.11	SET 5/8"X30" REBAR W/ 2" MDT ALUMINUM CONTROL CAP STAMPED "CF1 2020", MP 146.727 OF INTERSTATE 90 ON THE NORTH SIDE OF THE HIGHWAY, 26.9' NORTH FROM WEST BOUND LANE PTW, 3.9' NORTH FROM BACK OF GUARD RAIL.
CF2	920,879.354	1,022,457.625	3843.22	SET 5/8"X30" REBAR W/ 2" MDT ALUMINUM CONTROL CAP STAMPED "CF2 2020", MP 146.645 OF INTERSTATE 90 ON THE NORTH SIDE OF THE HIGHWAY, 28.2' NORTH FROM WEST BOUND LANE PTW, 4.2' NORTH FROM BACK OF GUARD RAIL.
CF3	920,912.277	1,022,287.782	3842.07	SET 5/8"X30" REBAR W/ 2" MDT ALUMINUM CONTROL CAP STAMPED "CF3 2020", MP 146.612 OF INTERSTATE 90 ON THE NORTH SIDE OF THE HIGHWAY, 30' NORTH FROM WEST BOUND LANE PTW, 5.4' NORTH FROM BACK OF GUARD RAIL.
S447	920,521.568	1,023,502.789	3873.41	FOUND NGS BENCHMARK AS DESCRIBED. SEE NGS DATASHEET FOR ADDITIONAL INFORMATION.

S447

2	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9917000rdtl001.dgn	DESIGNED BY	SUE CUSKER	10/21/2020	ROAD PLANS	I-90 EROSION - W OF DRUMMOND	IM 90-3(152)147
1		1/7/2021	REVIEWED BY	BEN NUNNALLEE	12/05/2020			
		1:45:53 PM CPS - U3162	CHECKED BY	JOY FLEMING	12/10/2020	GRANITE COUNTY	CSF = 0.99922444 UPN 9917000	03

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SUMMARY

STREAM BANK RESTORATION

STATION		cu. yards							sq. yards			REMARKS
		TOPSOIL Δ	EXCAVATION *	EMBANKMENT IN PLACE **	SPECIAL BORROW	RANDOM RIPRAP		GRANULAR BEDDING MATERIAL Δ	GEOTEXTILE PERMANENT EROSION CONTROL	EROSION CONTROL BLANKET LONG-TERM Δ	COIR EROSION CONTROL NET Δ	
FROM	TO					CL. II	CL. III		HIGH SURV. CLASS B			
678+45.39	681+25.61	179	678	216	132	366.0	725.0	60	1,140	776	776	
TOTAL		~	678	~	132	366.0	725.0	~	1,140	~	~	

SEE DETAILS

* CAN BE USED FOR SPECIAL BORROW AND BERM.

** FOR INFORMATION ONLY. REQUIRED FOR BERM.

Δ FOR INFORMATION ONLY, INCLUDED IN THE COST OF RIPRAP REVEGETATION.

REVEGETATION

STATION		lump sum		sq. yards	REMARKS
		REVEGETATION	TREE AND SHRUB PLANTING	RIPRAP REVEGETATION	
FROM	TO				
678+45.39	681+25.61	1	1	776	
TOTAL		1	1	776	

GUARDRAIL

STATION		linear feet		REMARKS
		RESET GUARDRAIL		
FROM	TO	LEFT	RIGHT	
678+50	680+00	150.0		EXACT LOCATION TO BE DETERMINED BY EPM.
SUBTOTAL		150.0	~	
TOTAL		150.0		

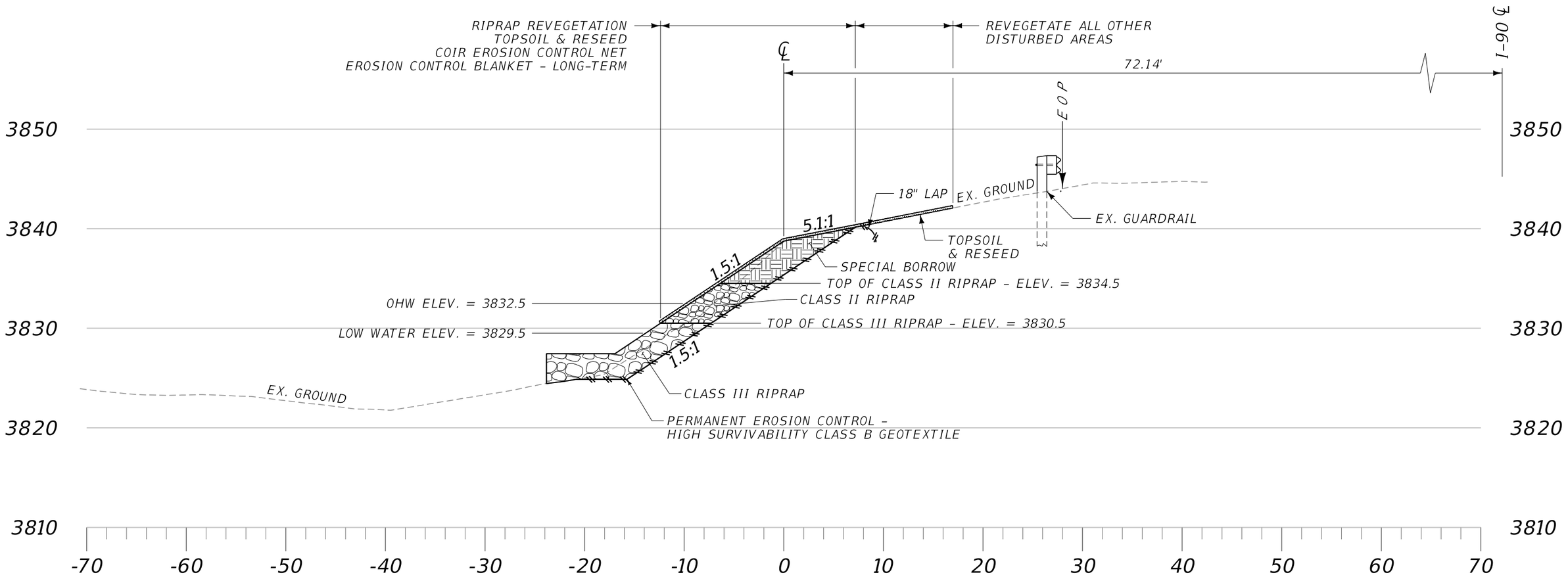
STATIONING AND DIRECTION BASED OFF I-90 STAKED CENTERLINE.

FENCING

STATION		linear feet	each			REMARKS
		FARM FENCE TYPE F2M-32WW	FARM FENCE PANEL		DEADMAN	
FROM	TO		SINGLE	DOUBLE		
679+00	680+25	125		3	1	EXACT LOCATION TO BE DETERMINED BY EPM.
TOTAL		125	~	3	1	

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DETAIL



STA. 678+45.39

NOTES:

SEE CROSS SECTIONS.

PLACE CLASS III RIPRAP TO A THICKNESS OF 3' TYP. (2' MIN. AT TIE-INS ON EACH END).

PLACE CLASS II RIPRAP TO A THICKNESS OF 3' TYP. (2' MIN. AT TIE-INS ON EACH END).

PLACE CLASS II RIPRAP ABOVE CLASS III RIPRAP TO AN ELEVATION OF 2' ABOVE ORDINARY HIGH WATER (OHW) AS SPECIFIED BY THE PROJECT MANAGER.

ALL ELEVATIONS ON THE PLANS ARE FOR ESTIMATING PURPOSES ONLY.

QUANTITIES:

CLASS III RIPRAP = 1.6 yd^3 per lin. ft.
CLASS II RIPRAP = 0.8 yd^3 per lin. ft.

DETAIL

EROSION REPAIR
STA. 678+45.39

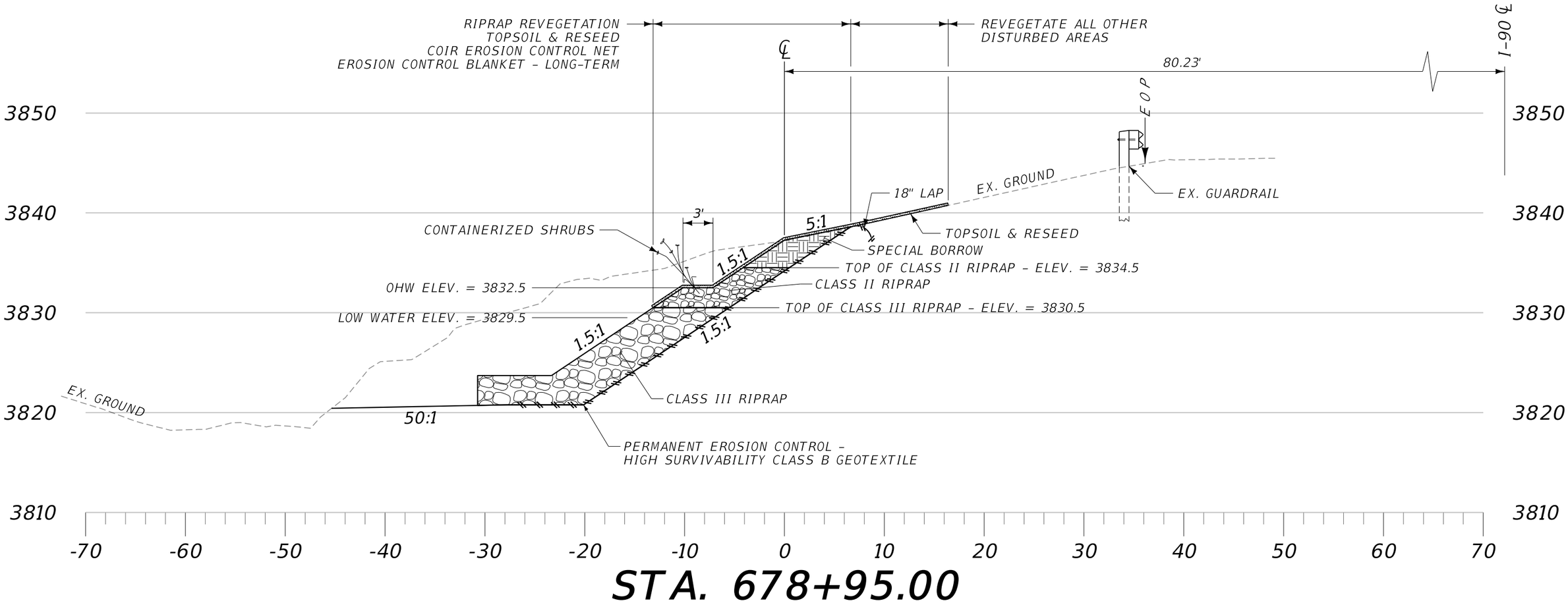
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3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9917000rddet001.dgn	DESIGNED BY	SUE CUSKER	10/21/2020	ROAD PLANS	I-90 EROSION - W OF DRUMMOND / IM 90-3(152)147
2		1/7/2021	REVIEWED BY	BEN NUNNALLEE	12/05/2020		
		1:46:25 PM CPS - U3162	CHECKED BY	JOY FLEMING	12/10/2020	GRANITE COUNTY	UPN 9917000 / 05

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DETAIL



STA. 678+95.00

NOTES:

SEE CROSS SECTIONS.

PLACE CLASS III RIPRAP TO A THICKNESS OF 3' TYP. (2' MIN. AT TIE-INS ON EACH END).

PLACE CLASS II RIPRAP TO A THICKNESS OF 3' TYP. (2' MIN. AT TIE-INS ON EACH END).

PLACE CLASS II RIPRAP ABOVE CLASS III RIPRAP TO AN ELEVATION OF 2' ABOVE ORDINARY HIGH WATER (OHW) AS SPECIFIED BY THE PROJECT MANAGER.

ALL ELEVATIONS ON THE PLANS ARE FOR ESTIMATING PURPOSES ONLY.

QUANTITIES:

CLASS III RIPRAP = 3.3 yd^3 per lin. ft.
CLASS II RIPRAP = 0.9 yd^3 per lin. ft.

DETAIL

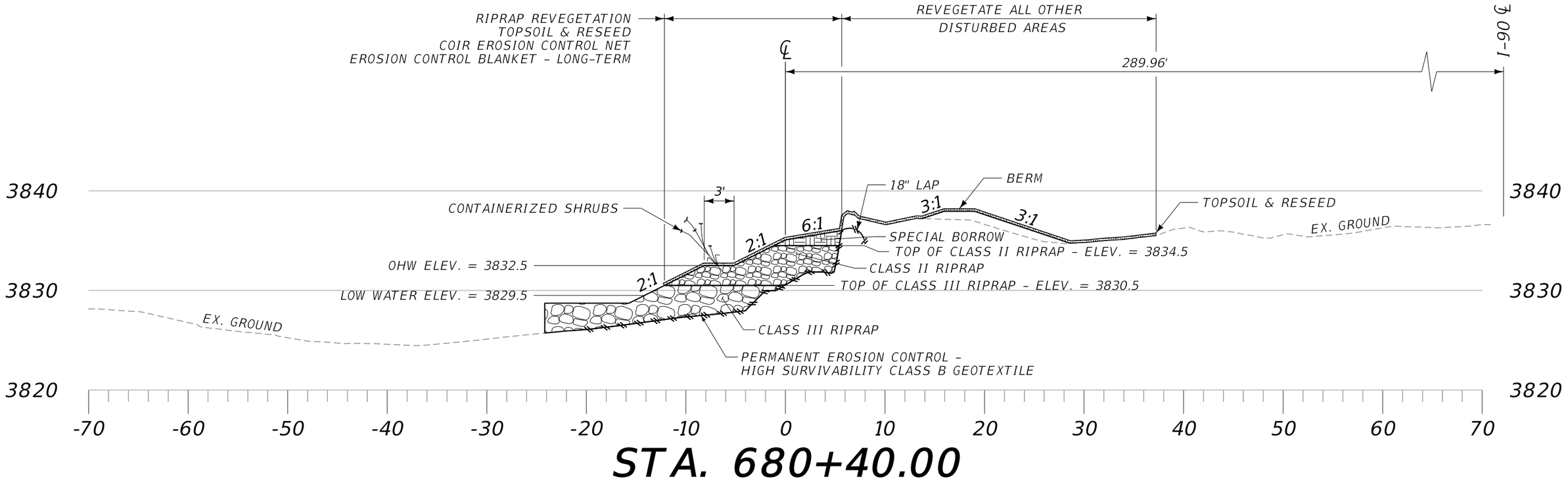
EROSION REPAIR
STA. 678+95.00

SCALE = NO SCALE

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DETAIL



STA. 680+40.00

NOTES:

SEE CROSS SECTIONS.

PLACE CLASS III RIPRAP TO A THICKNESS OF 3' TYP. (2' MIN. AT TIE-INS ON EACH END).

PLACE CLASS II RIPRAP TO A THICKNESS OF 3' TYP. (2' MIN. AT TIE-INS ON EACH END).

PLACE CLASS II RIPRAP ABOVE CLASS III RIPRAP TO AN ELEVATION OF 2' ABOVE ORDINARY HIGH WATER (OHW) AS SPECIFIED BY THE PROJECT MANAGER.

ALL ELEVATIONS ON THE PLANS ARE FOR ESTIMATING PURPOSES ONLY.

QUANTITIES:

CLASS III RIPRAP = 2.2 yd^3 per lin. ft.
CLASS II RIPRAP = 1.5 yd^3 per lin. ft.

DETAIL

EROSION REPAIR
STA. 680+40.00

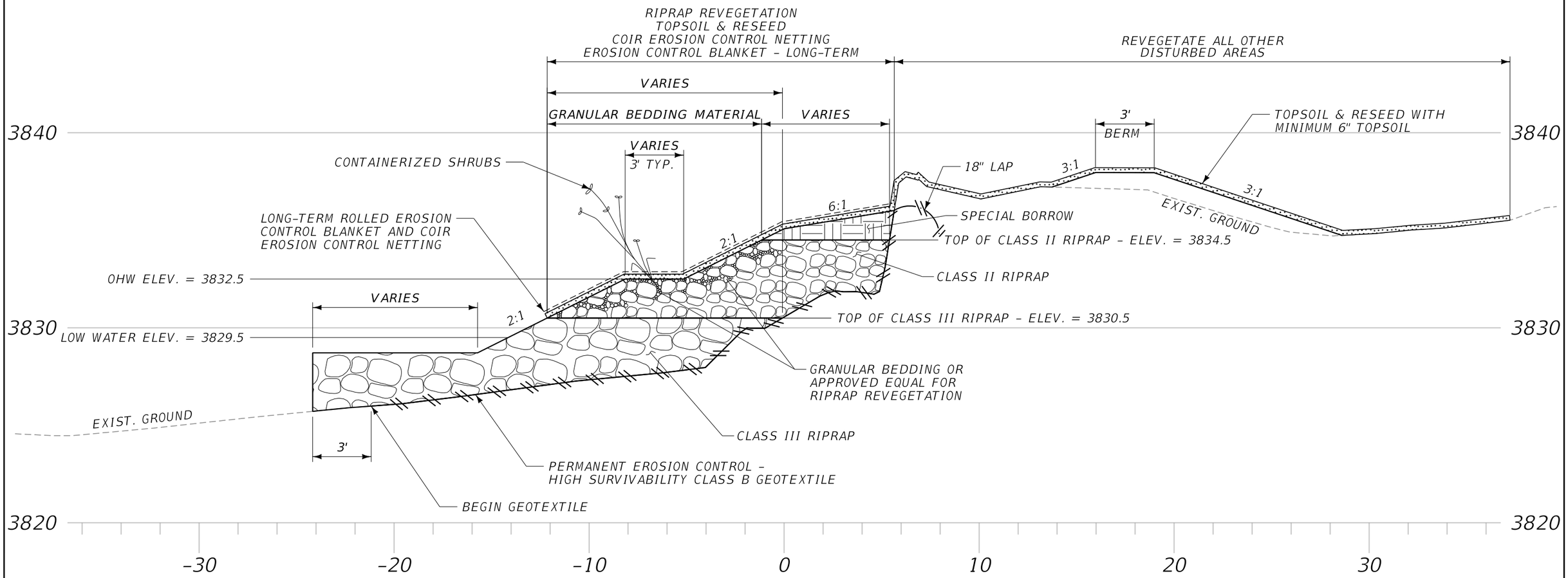
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DETAIL



NOTES:

STABILIZE VERTICAL SLOPES TO ACCEPT PERMANENT EROSION CONTROL.

USE LONG-TERM ROLLED EROSION CONTROL BLANKET MEETING SUBSECTION 713.12.
A 100% BIODEGRADABLE BLANKET COMPOSED OF 100% COCONUT.

STAKE EROSION CONTROL BLANKET PER MANUFACTURER'S SPECIFICATIONS.

FILL RIPRAP VOIDS WITH GRANULAR BEDDING. USE GRANULAR BEDDING THAT MEETS THE GRADATION FOR COURSE AGGREGATE FOR CONCRETE (NO. 2) (TABLE 701-4) OR A MATERIAL OF SIMILAR GRADATION OBTAINED ON SITE TO PROVIDE A UNIFORM SURFACE FOR THE PLACEMENT OF TOPSOIL AS APPROVED BY THE PROJECT MANAGER.

DETAIL

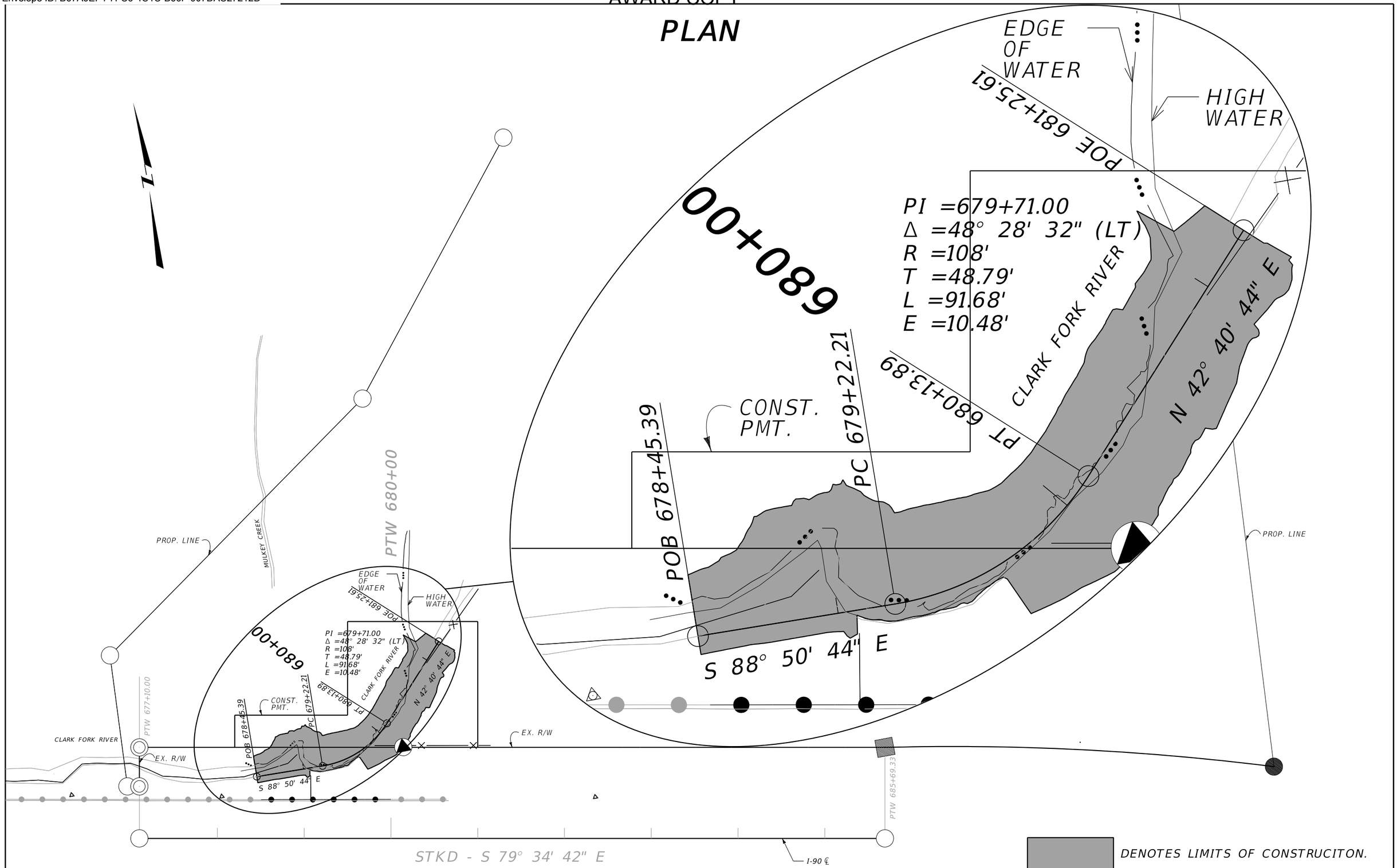
CLASS II RIPRAP
AND
REVEGETATION

SCALE = NO SCALE

3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9917000rddet002.dgn	DESIGNED BY	SUE CUSKER	10/21/2020	ROAD PLANS	I-90 EROSION - W OF DRUMMOND	IM 90-3(152)147
2		1/7/2021	REVIEWED BY	BEN NUNNALLEE	12/05/2020			
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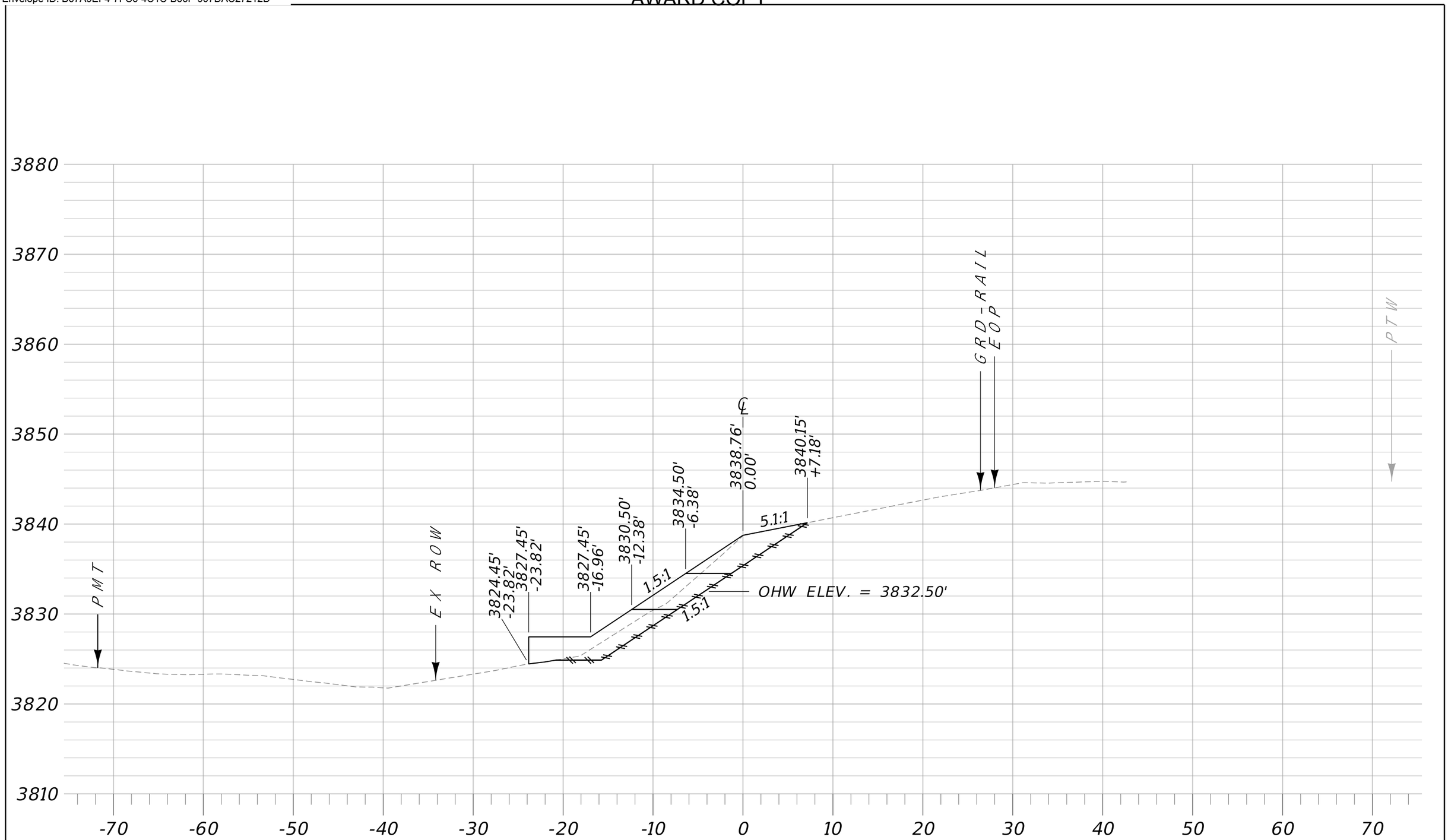
PLAN



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2		1/7/2021	REVIEWED BY	BEN NUNNALLEE	12/05/2020		
		1:47:03 PM CPS - U3162	CHECKED BY	JOY FLEMING	12/10/2020	GRANITE COUNTY	UPN 9917000 / 09

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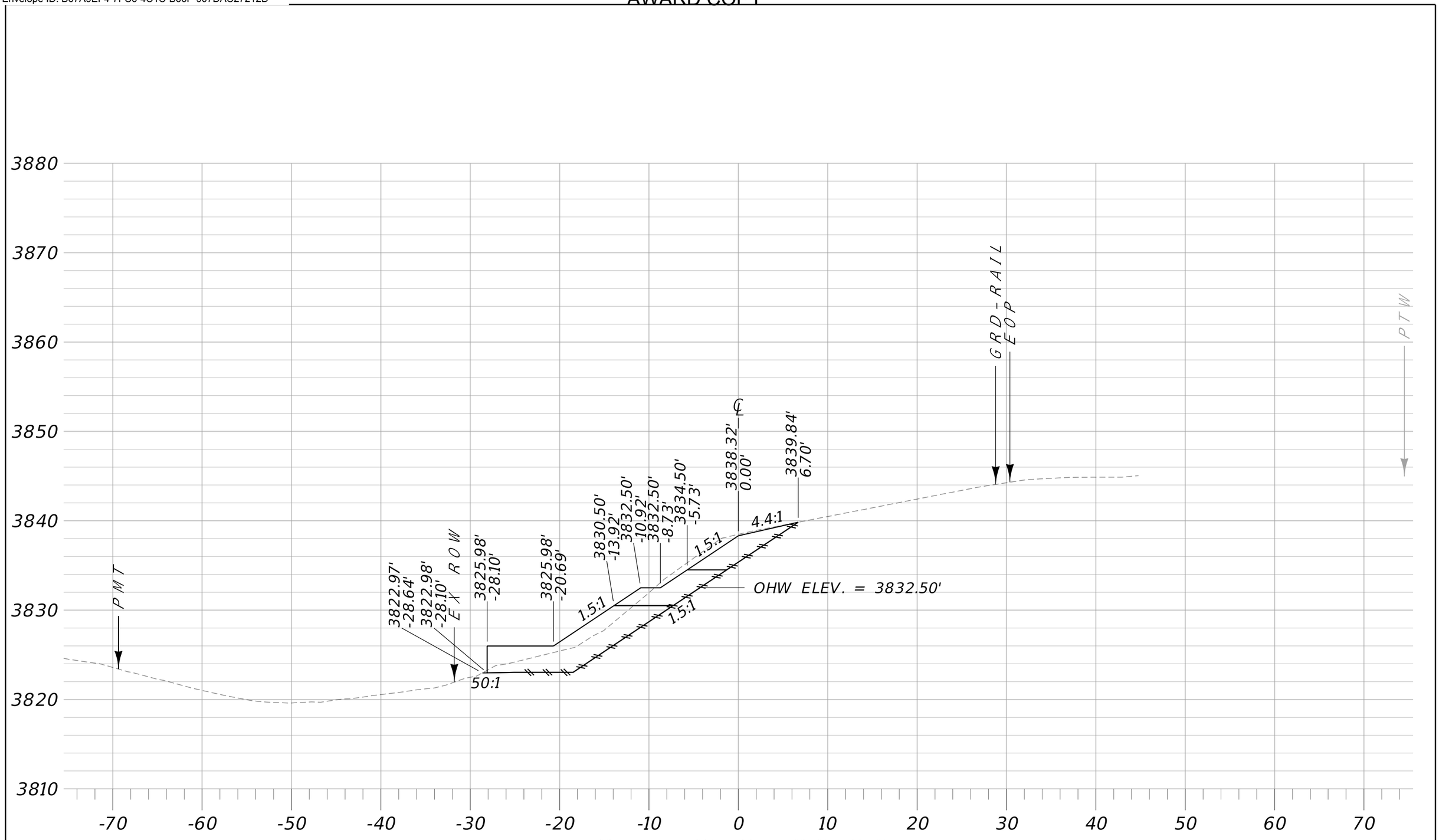


CA: 48.8 SF CV: 0 CY **Sta. 678+45.39** FV: 0 CY FA: 0.0 SF MO: 0 CY

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	1/7/2021	REVIEWED BY	BEN NUNNALLEE	12/5/2020			
	1:47:18 PM CPS - U3162	CHECKED BY	JERRY SABOL		GRANITE COUNTY	UPN 9917000	SHEET 1

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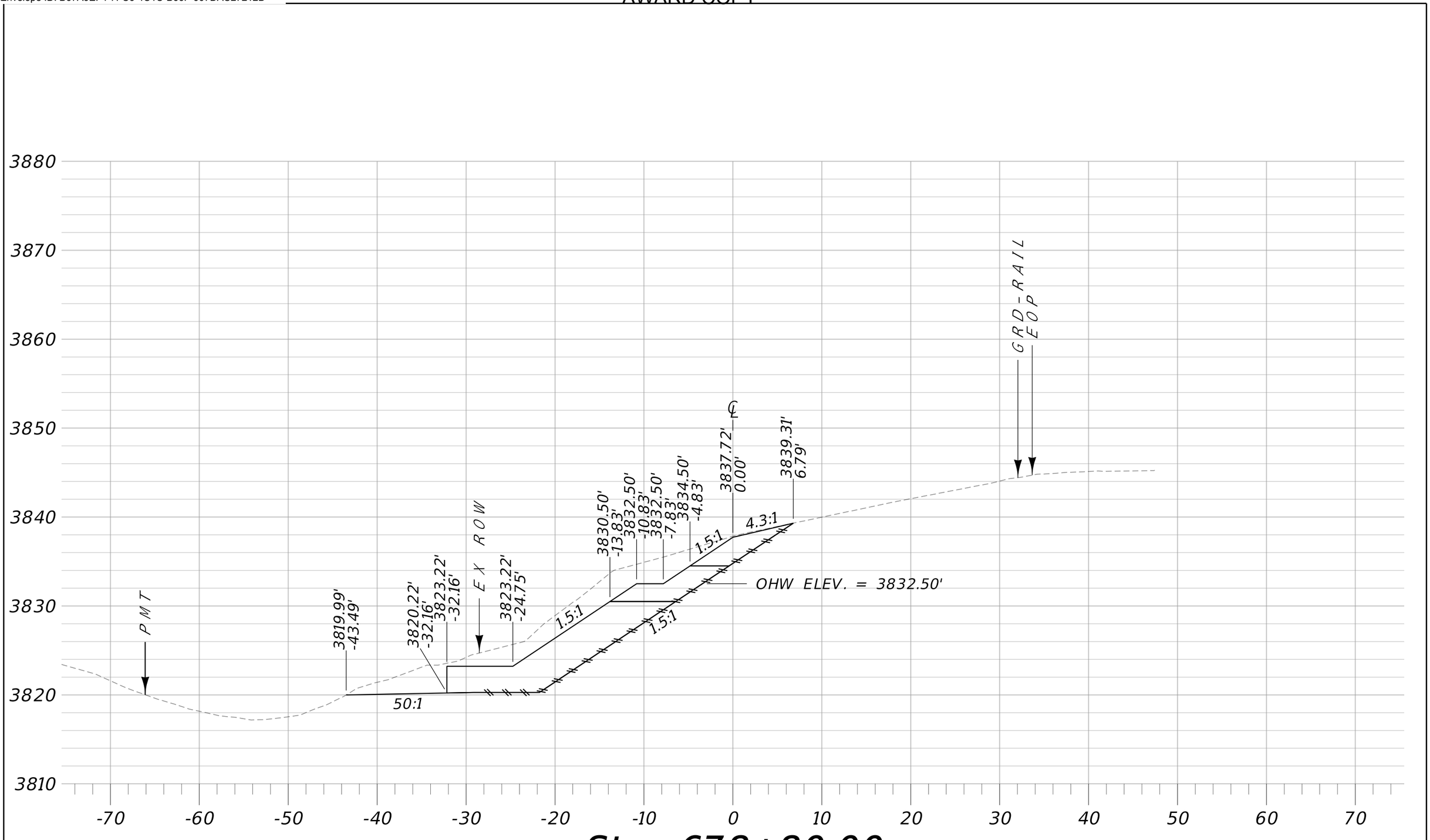


CA: 85.7 SF CV: 36 CY **Sta. 678+60.00** FV: 0 CY FA: 0.0 SF MO: 36 CY

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	1/7/2021	REVIEWED BY	BEN NUNNALLEE	12/5/2020			
	1:47:23 PM CPS - U3162	CHECKED BY	JERRY SABOL		GRANITE COUNTY	UPN 9917000	SHEET 2

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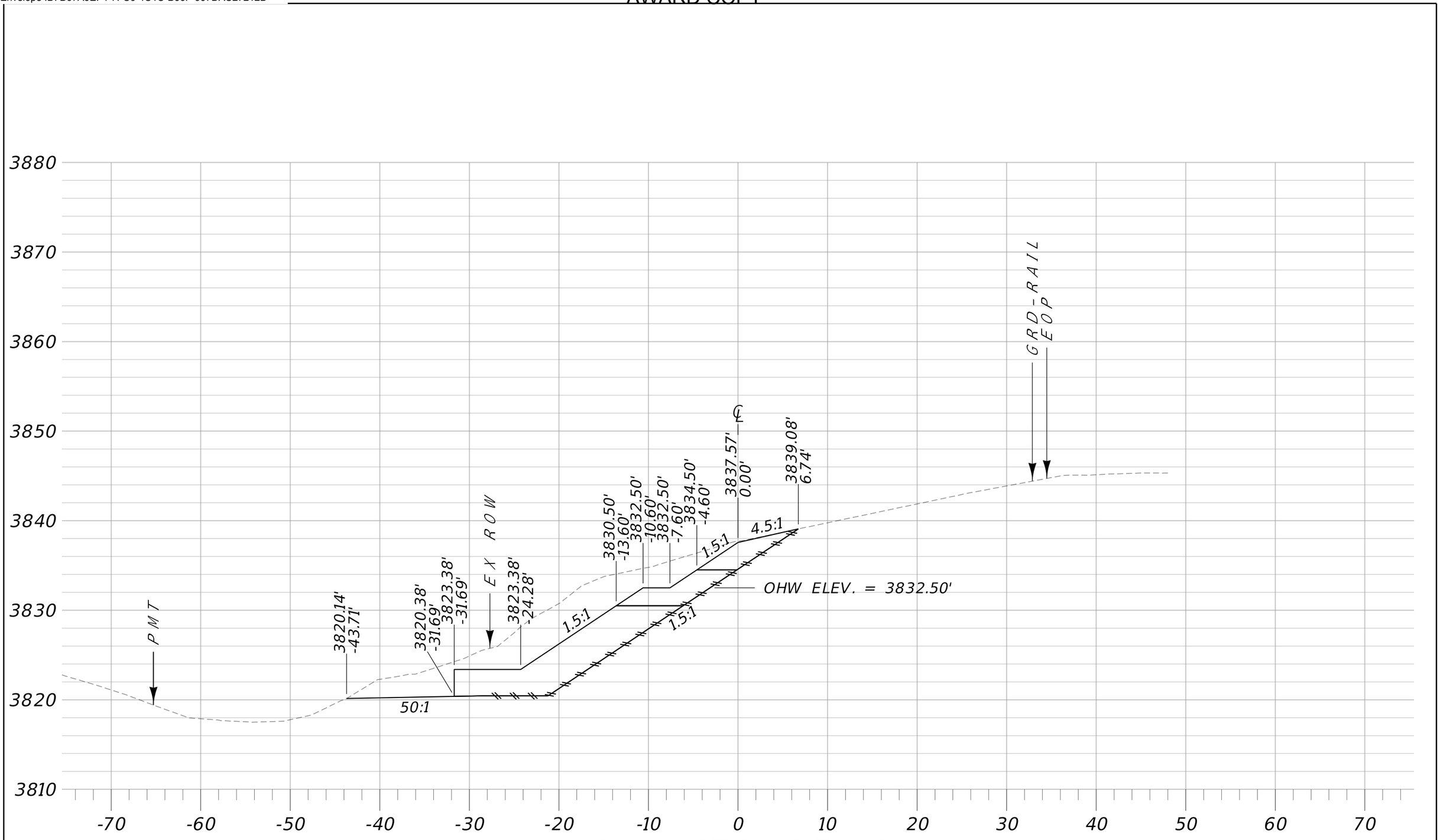
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	1/7/2021	REVIEWED BY	BEN NUNNALLEE	12/5/2020			
	1:47:28 PM CPS - U3162	CHECKED BY	JERRY SABOL		GRANITE COUNTY	UPN 9917000	SHEET 3

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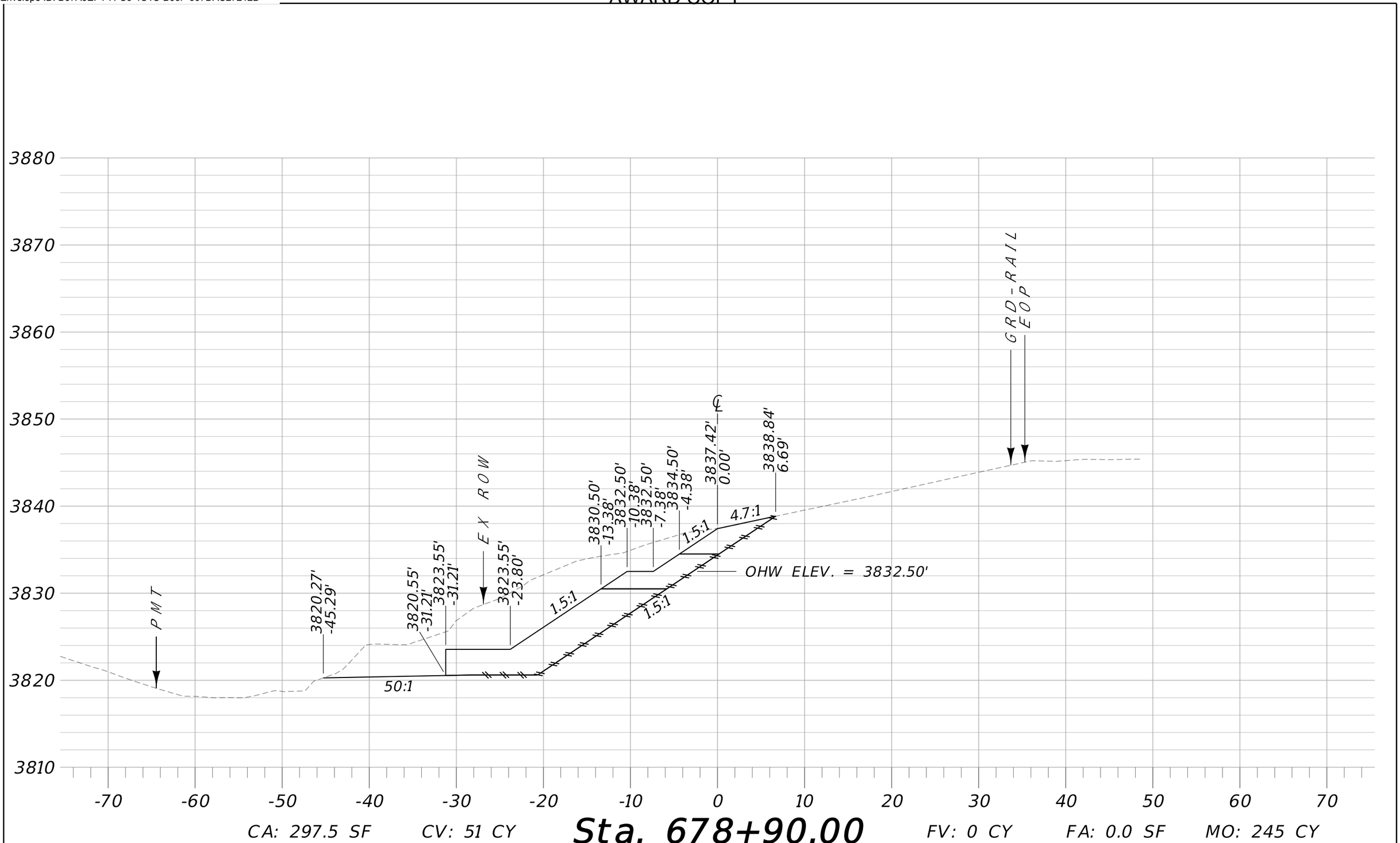


CA: 254.0 SF CV: 44 CY **Sta. 678+85.00** FV: 0 CY FA: 0.0 SF MO: 194 CY

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	1/7/2021	REVIEWED BY	BEN NUNNALLEE	12/5/2020			
	1:47:33 PM CPS - U3162	CHECKED BY	JERRY SABOL		GRANITE COUNTY	UPN 9917000	SHEET 4

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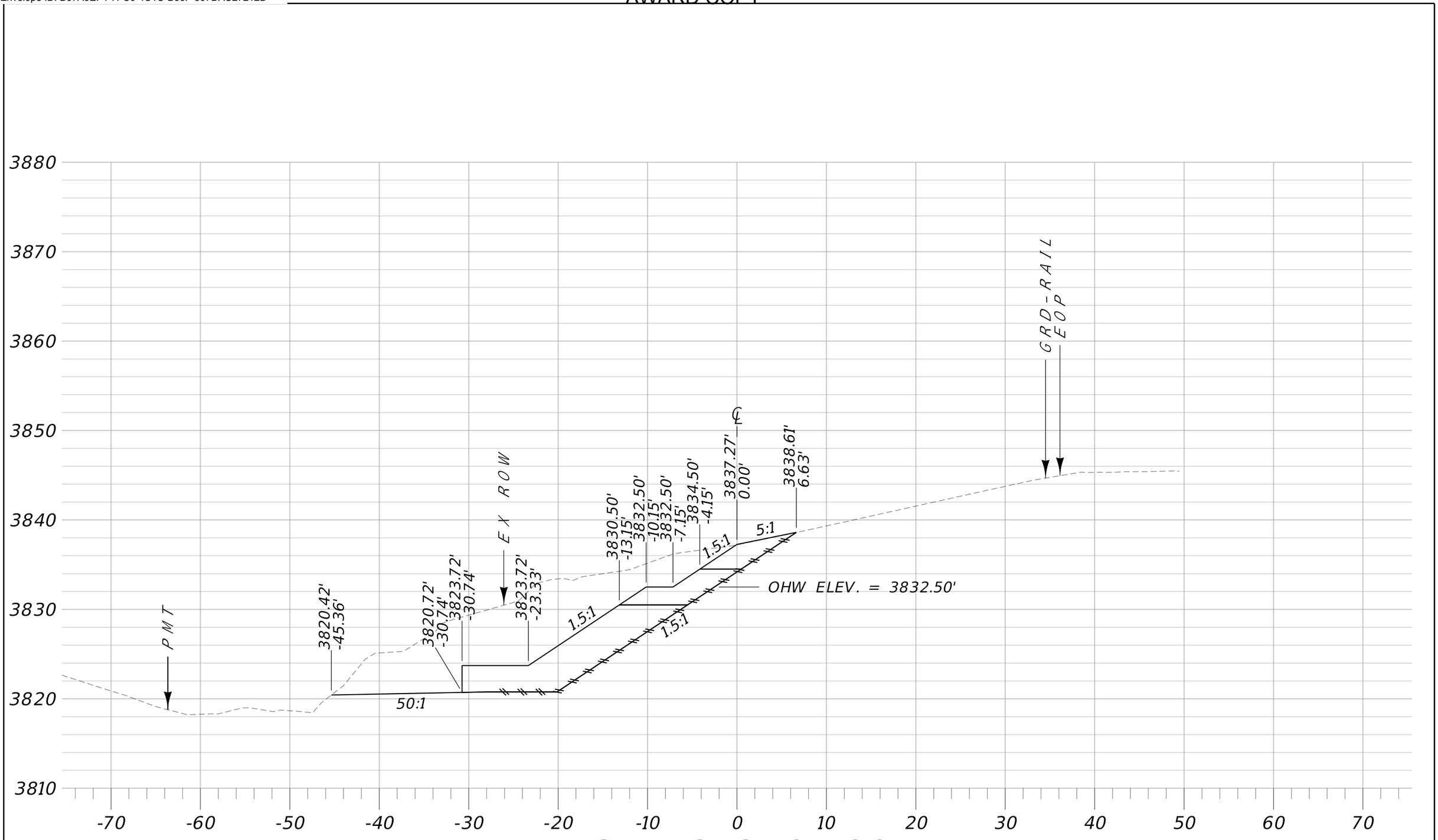


CA: 297.5 SF CV: 51 CY **Sta. 678+90.00** FV: 0 CY FA: 0.0 SF MO: 245 CY

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	1/7/2021	REVIEWED BY	BEN NUNNALLEE	12/5/2020			
	1:47:38 PM CPS - U3162	CHECKED BY	JERRY SABOL		GRANITE COUNTY	UPN 9917000	SHEET 5

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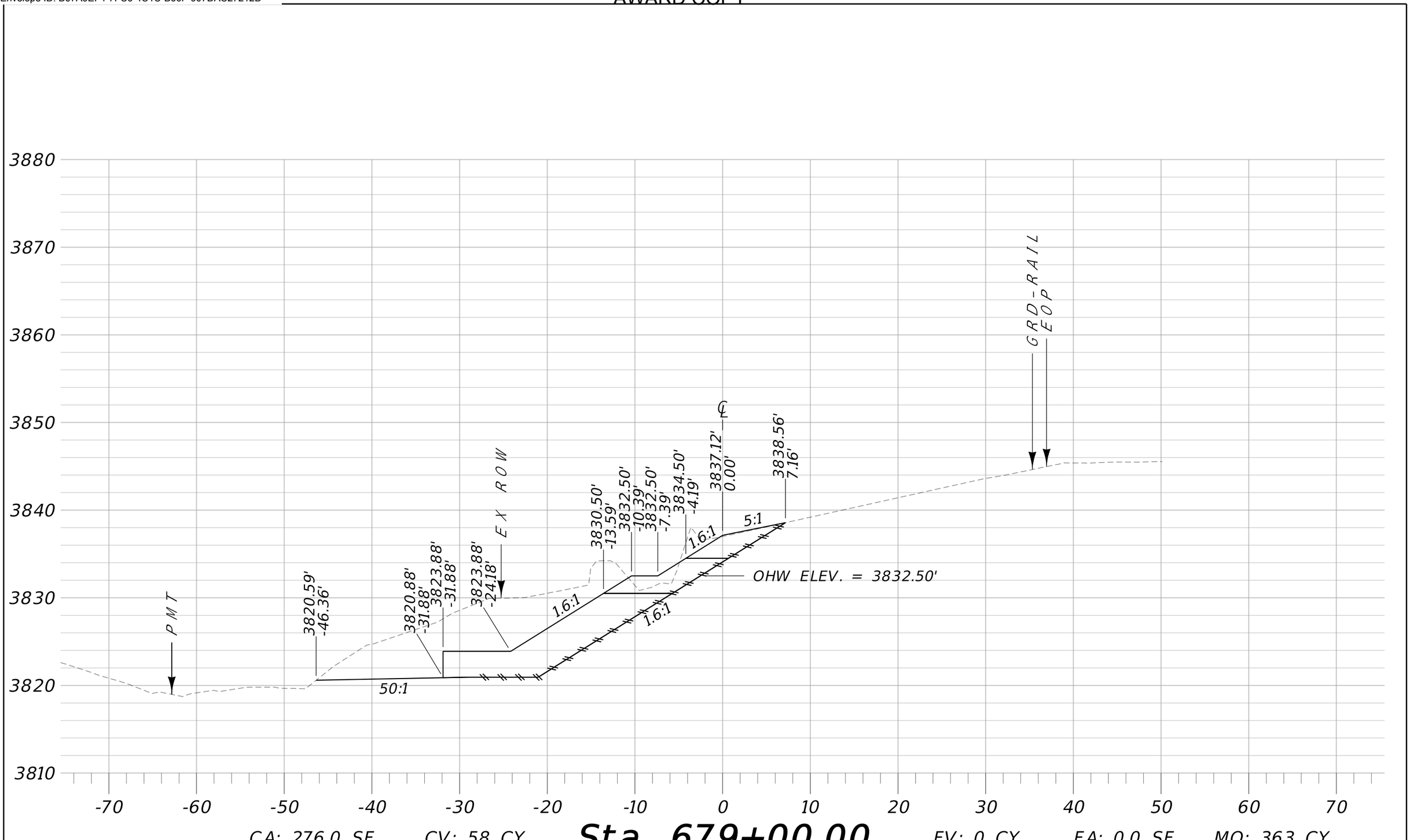


CA: 345.6 SF CV: 60 CY **Sta. 678+95.00** FV: 0 CY FA: 0.0 SF MO: 305 CY

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	1/7/2021	REVIEWED BY	BEN NUNNALLEE	12/5/2020			
	1:47:44 PM CPS - U3162	CHECKED BY	JERRY SABOL		GRANITE COUNTY	UPN 9917000	SHEET 6

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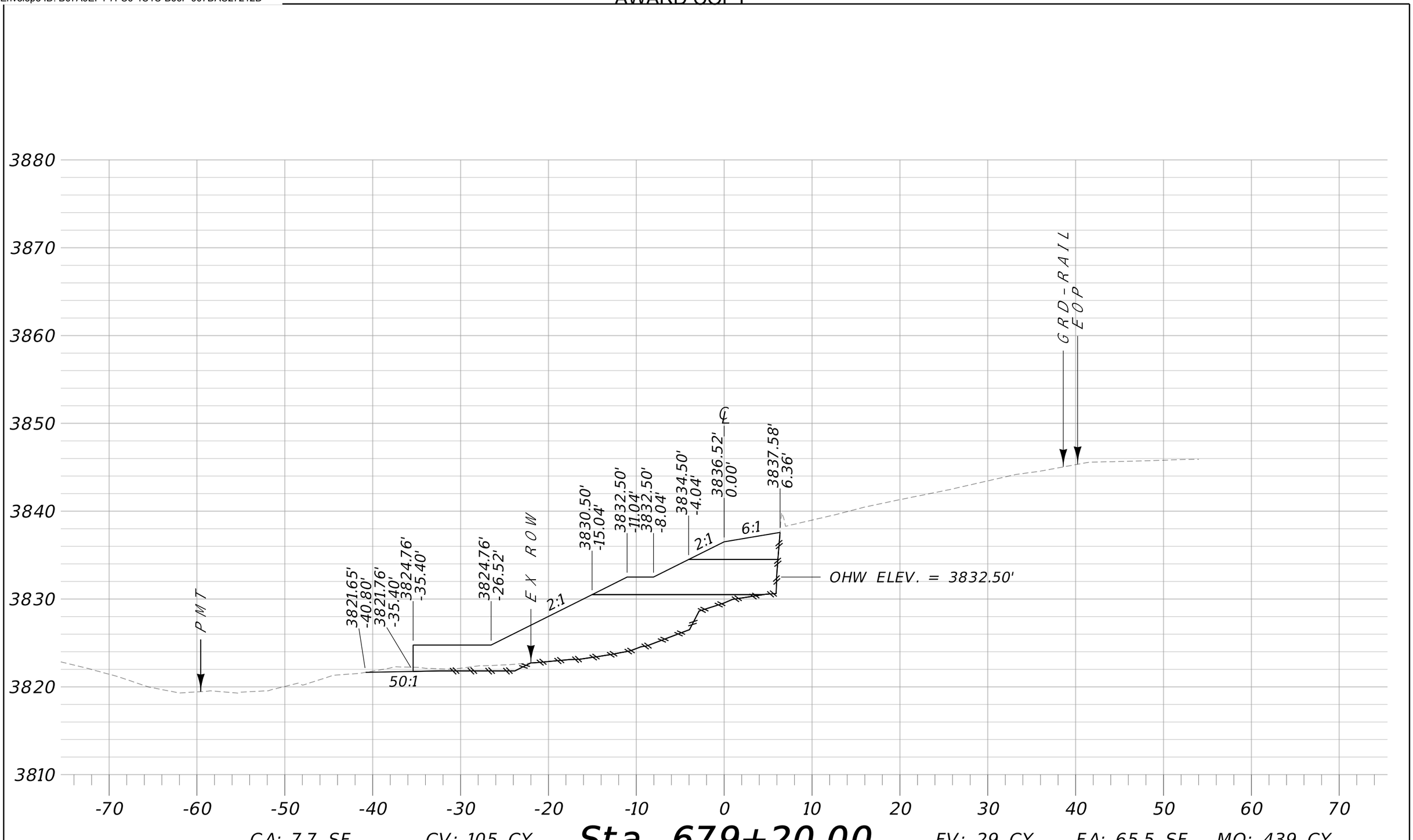


CA: 276.0 SF CV: 58 CY **Sta. 679+00.00** FV: 0 CY FA: 0.0 SF MO: 363 CY

MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9917000rdlay002.dgn	DESIGNED BY SUE CUSKER	11/5/2020	EROSION CROSS SECTIONS	I-90 EROSION - W OF DRUMMOND / IM 90-3(152)147
	1/7/2021	REVIEWED BY BEN NUNNALLEE	12/5/2020		
	1:47:49 PM CPS - U3162	CHECKED BY JERRY SABOL		GRANITE COUNTY	UPN 9917000 / SHEET 7

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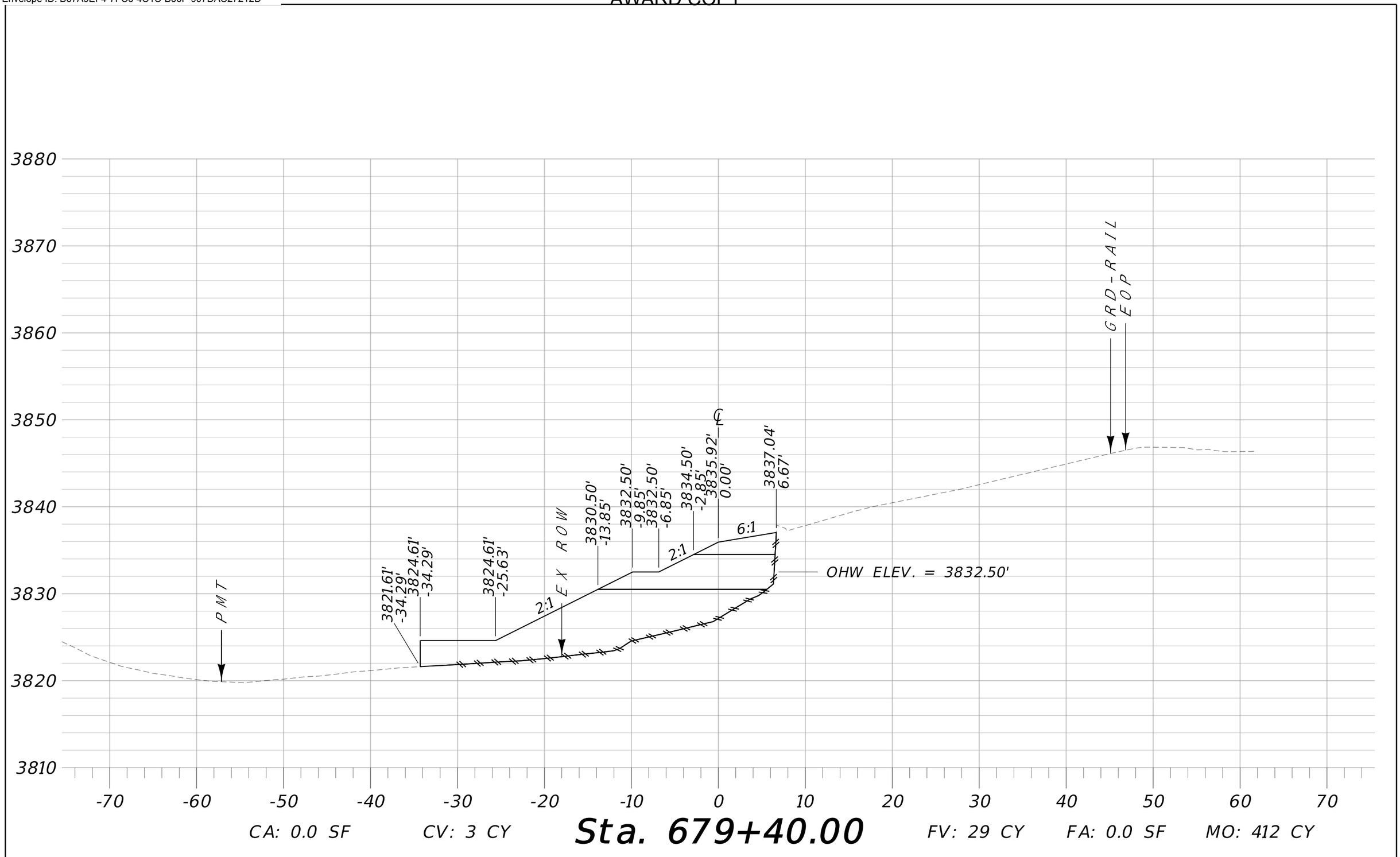


CA: 7.7 SF CV: 105 CY **Sta. 679+20.00** FV: 29 CY FA: 65.5 SF MO: 439 CY

MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9917000rdlay002.dgn	DESIGNED BY	SUE CUSKER	11/5/2020	EROSION CROSS SECTIONS	I-90 EROSION - W OF DRUMMOND	IM 90-3(152)147
	1/7/2021	REVIEWED BY	BEN NUNNALLEE	12/5/2020			
	1:47:54 PM CPS - U3162	CHECKED BY	JERRY SABOL		GRANITE COUNTY	UPN 9917000	SHEET 8

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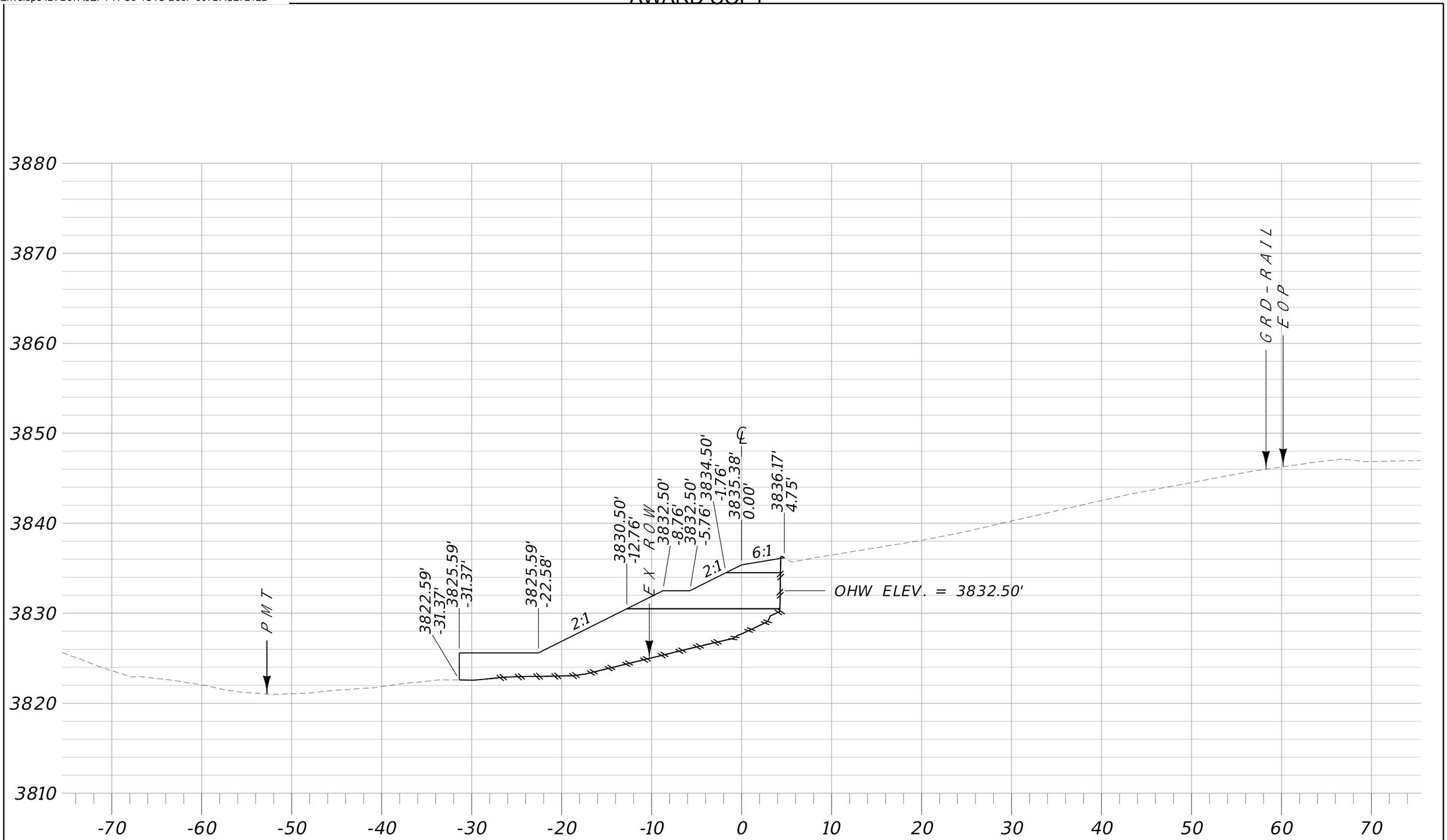


CA: 0.0 SF CV: 3 CY **Sta. 679+40.00** FV: 29 CY FA: 0.0 SF MO: 412 CY

MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9917000rdlay002.dgn	DESIGNED BY	SUE CUSKER	11/5/2020	EROSION CROSS SECTIONS	I-90 EROSION - W OF DRUMMOND	IM 90-3(152)147
	1/7/2021	REVIEWED BY	BEN NUNNALLEE	12/5/2020			
	1:47:59 PM CPS - U3162	CHECKED BY	JERRY SABOL		GRANITE COUNTY	UPN 9917000	SHEET 9

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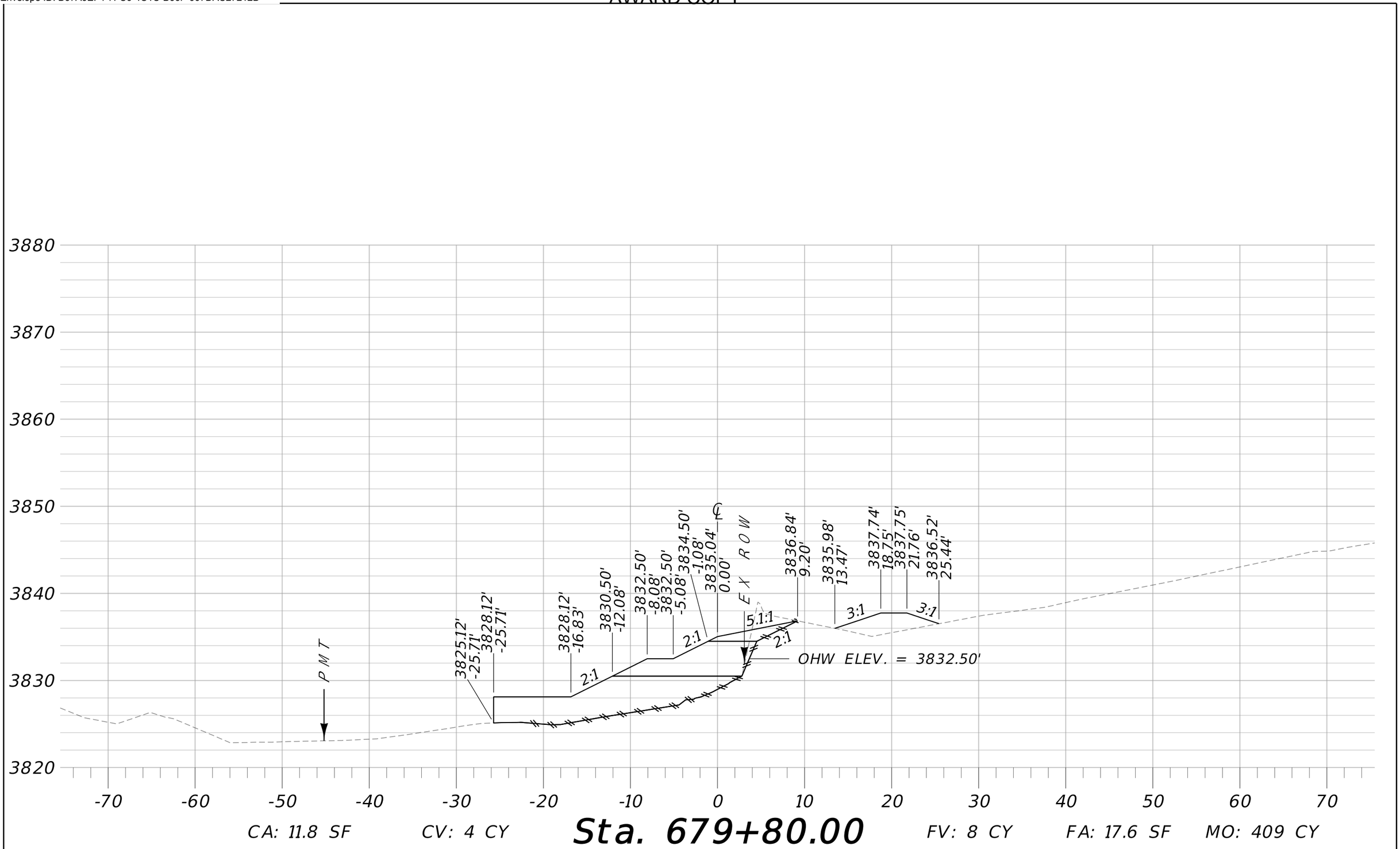


CA: 0.1 SF CV: 0 CY **Sta. 679+60.00** FV: 0 CY FA: 0.0 SF MO: 412 CY

MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9917000rdlay002.dgn	DESIGNED BY	SUE CUSKER	11/5/2020	EROSION CROSS SECTIONS	I-90 EROSION - W OF DRUMMOND	IM 90-3(152)147
	1/7/2021	REVIEWED BY	BEN NUNNALLEE	12/5/2020			
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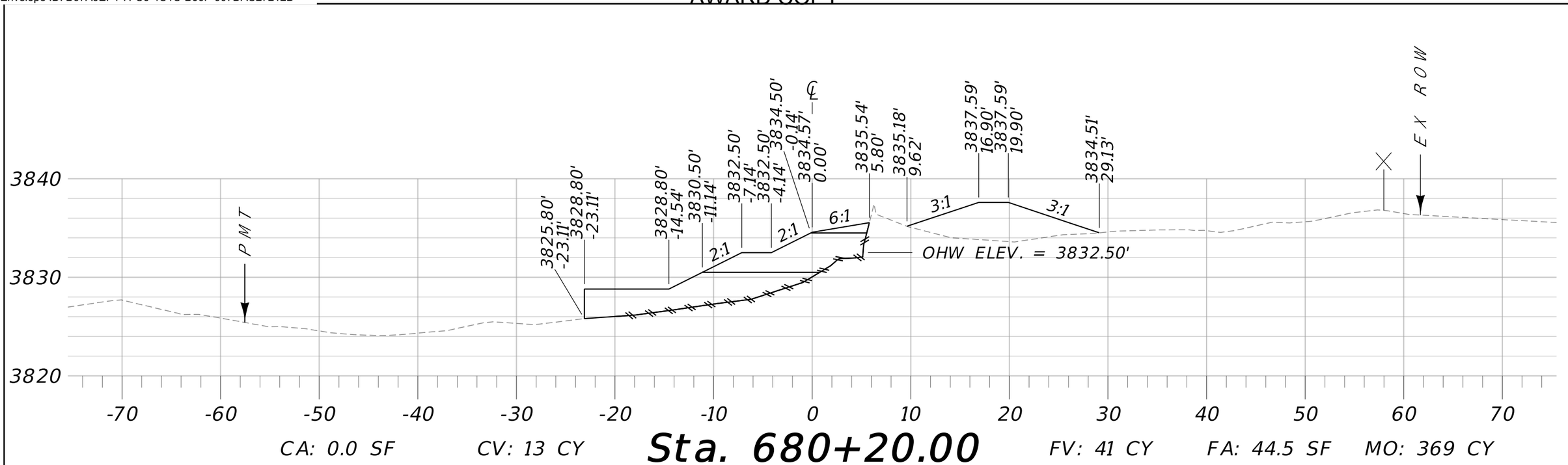
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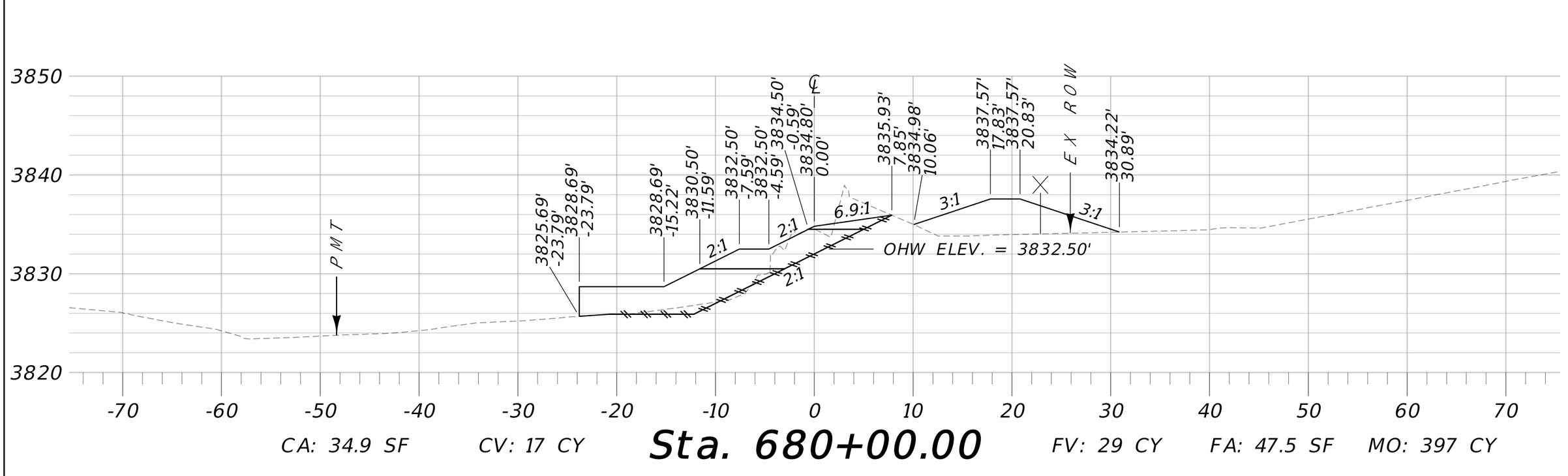
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MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9917000rdlay002.dgn	DESIGNED BY	SUE CUSKER	11/5/2020	EROSION CROSS SECTIONS	I-90 EROSION - W OF DRUMMOND	IM 90-3(152)147
	1/7/2021	REVIEWED BY	BEN NUNNALLEE	12/5/2020			
	1:48:10 PM CPS - U3162	CHECKED BY	JERRY SABOL		GRANITE COUNTY	UPN 9917000	SHEET 11

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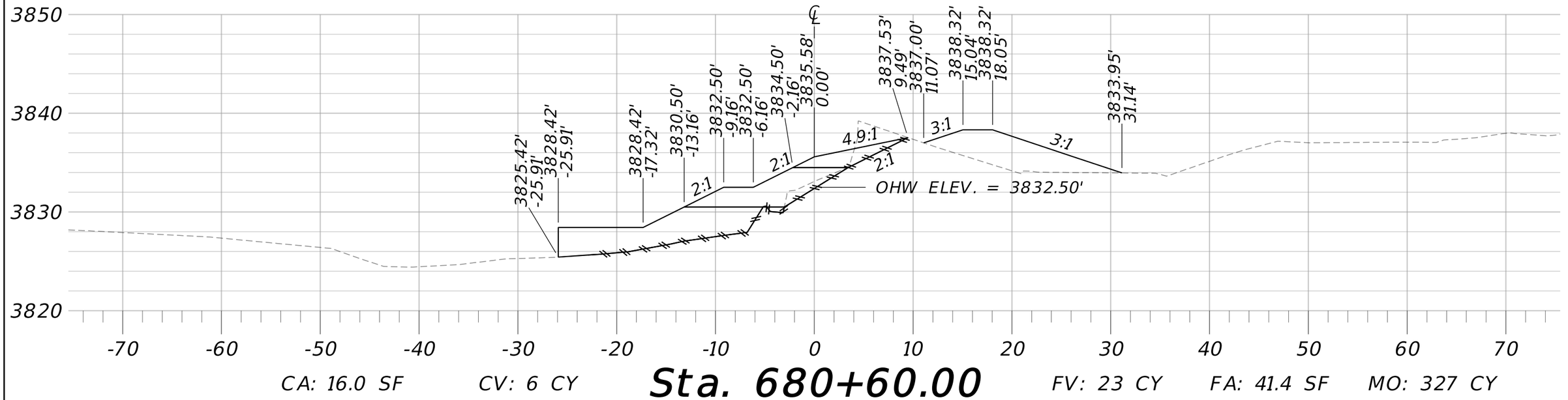


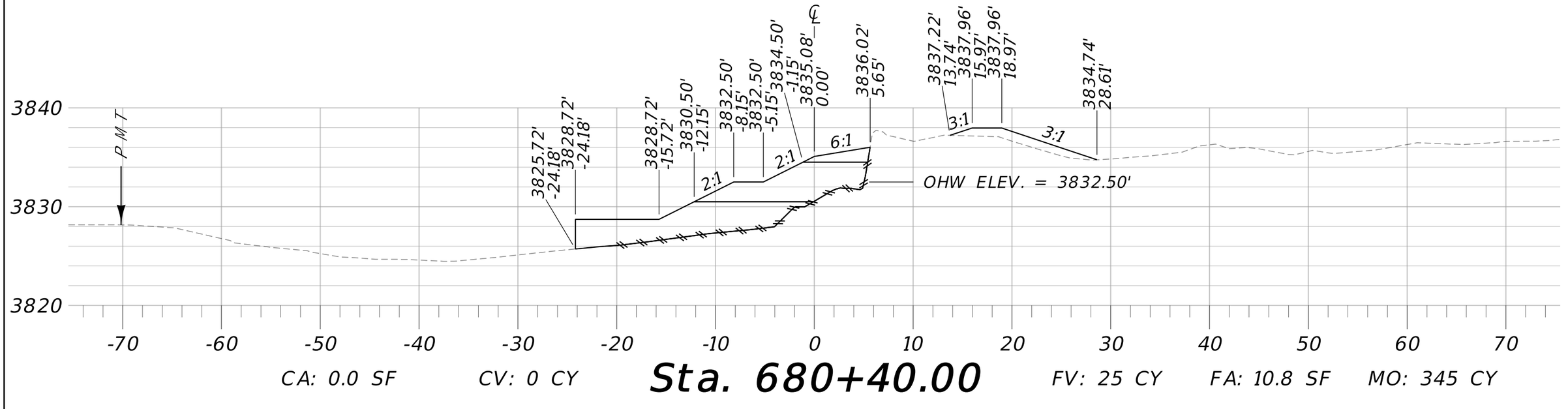


MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9917000rdlay002.dgn	DESIGNED BY	SUE CUSKER	11/5/2020	EROSION CROSS SECTIONS	I-90 EROSION - W OF DRUMMOND	IM 90-3(152)147
	1/7/2021	REVIEWED BY	BEN NUNNALLEE	12/5/2020			
	1:48:15 PM CPS - U3162	CHECKED BY	JERRY SABOL		GRANITE COUNTY	UPN 9917000	SHEET 12

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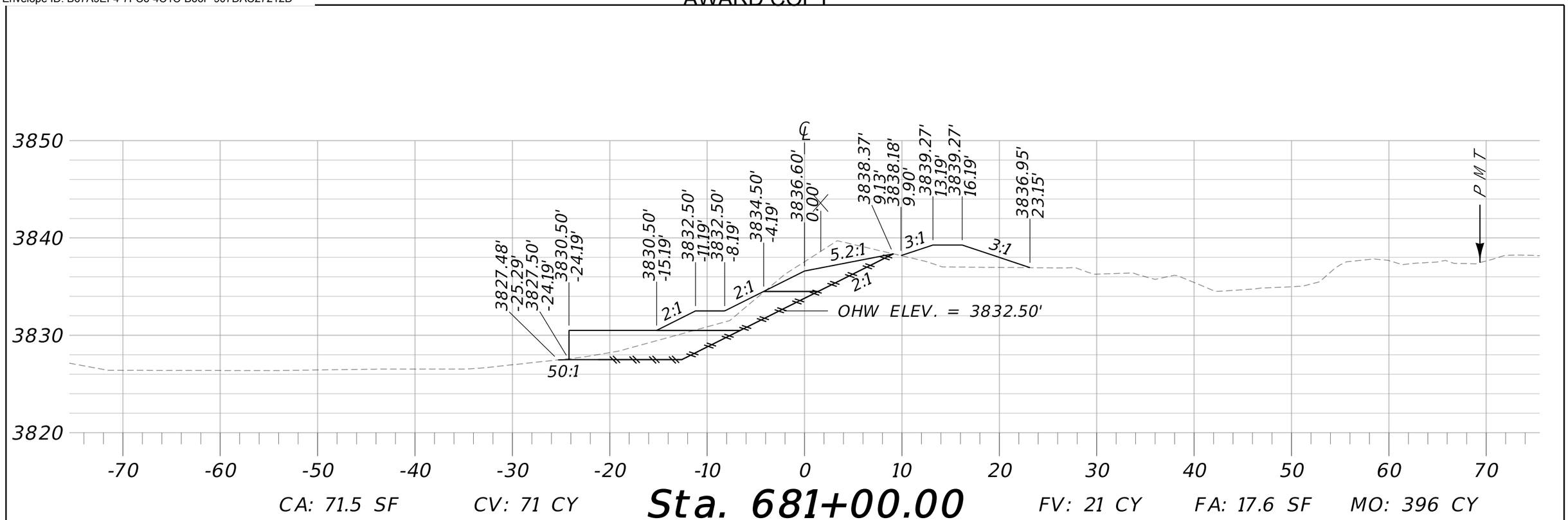
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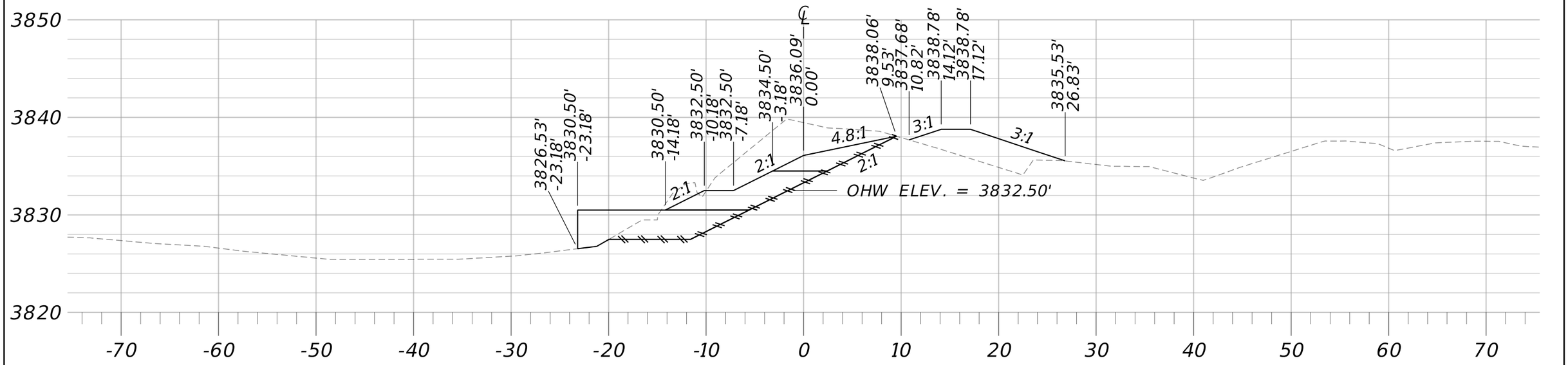




MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9917000rdlay002.dgn	DESIGNED BY	SUE CUSKER	11/5/2020	EROSION CROSS SECTIONS	I-90 EROSION - W OF DRUMMOND / IM 90-3(152)147
	1/7/2021	REVIEWED BY	BEN NUNNALLEE	12/5/2020		
	1:48:20 PM CPS - U3162	CHECKED BY	JERRY SABOL		GRANITE COUNTY	UPN 9917000 / SHEET 13

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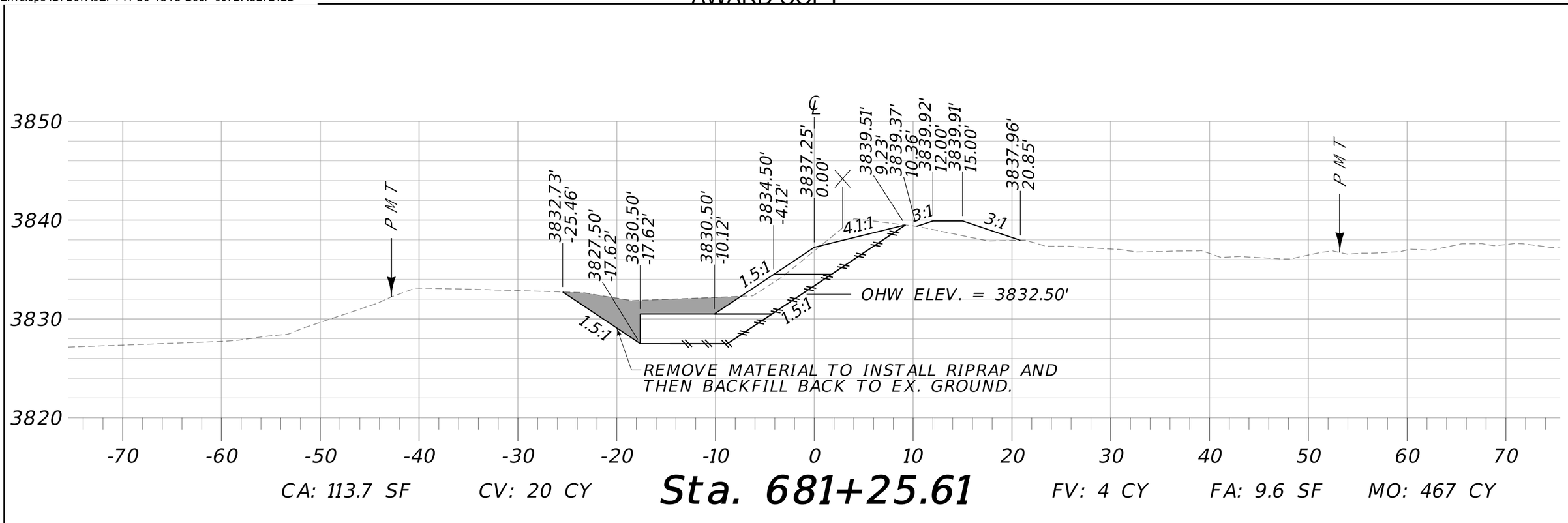


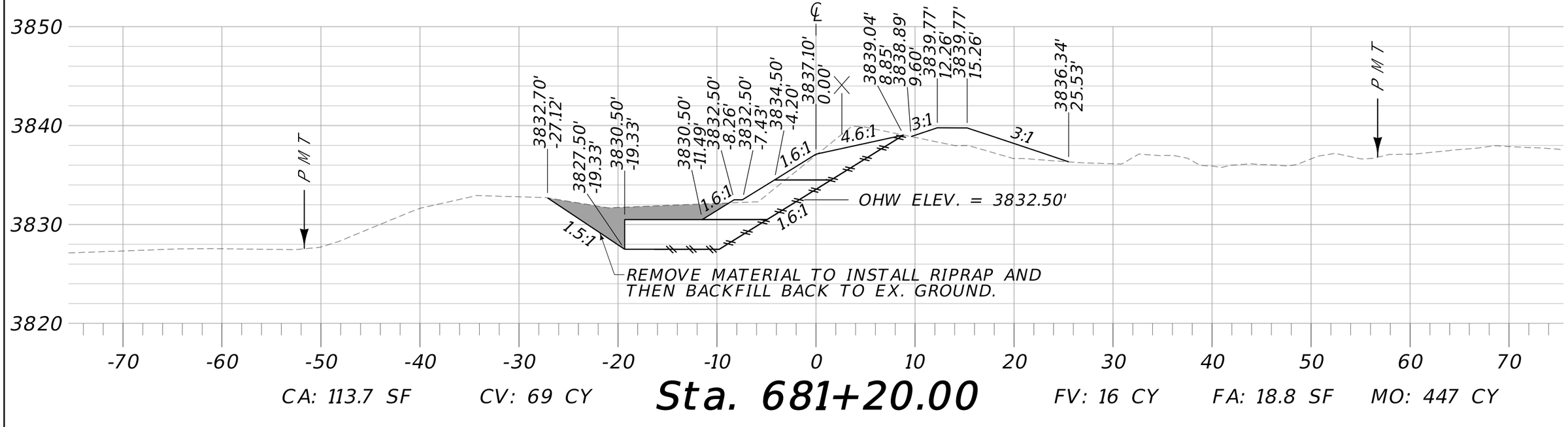


MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9917000rdlay002.dgn	DESIGNED BY	SUE CUSKER	11/5/2020	EROSION CROSS SECTIONS	I-90 EROSION - W OF DRUMMOND	IM 90-3(152)147
	1/7/2021	REVIEWED BY	BEN NUNNALLEE	12/5/2020			
	1:48:25 PM CPS – U3162	CHECKED BY	JERRY SABOL		GRANITE COUNTY	UPN 9917000	SHEET 14

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MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9917000rdlay002.dgn	DESIGNED BY	SUE CUSKER	11/5/2020	EROSION CROSS SECTIONS	I-90 EROSION - W OF DRUMMOND	IM 90-3(152)147
	1/7/2021	REVIEWED BY	BEN NUNNALLEE	12/5/2020			
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