



NABULSI ROAD  
CENTERLINE DATA:

BEGIN  
STA 0+00.00  
N: 9,991.03'  
E: 14,745.63'

①  
N 0°1'20" W  
34.94'

PC = 1+00.22  
PT = 2+51.05  
L = 150.82'  
Δ = 43°12'27"  
R = 200'

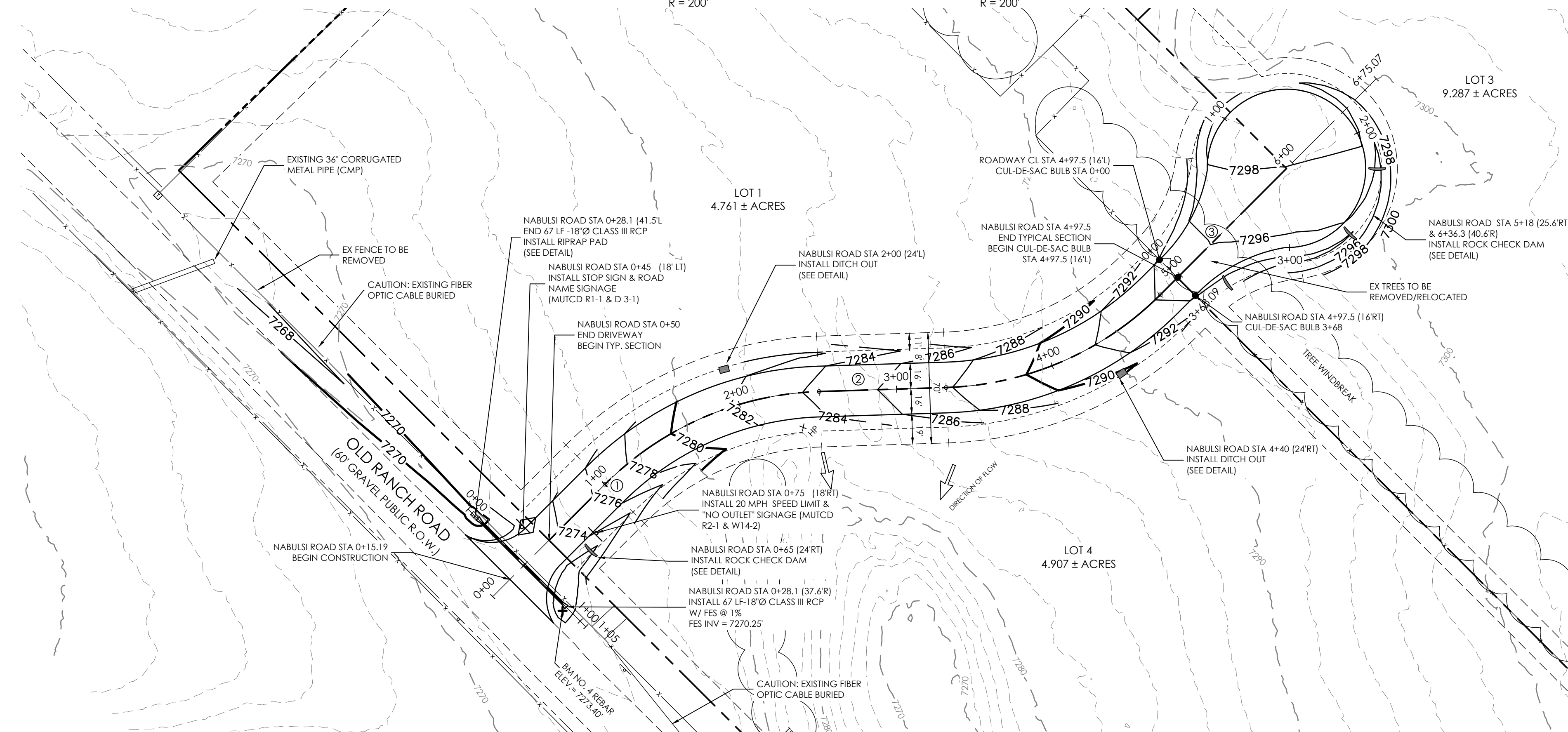
②  
N 43°11'07" E  
80.21'

PC = 3+31.26  
PT = 4+82.08  
L = 150.82'  
Δ = 43°12'27"  
R = 200'

③  
N 00°01'20" W  
112.73'

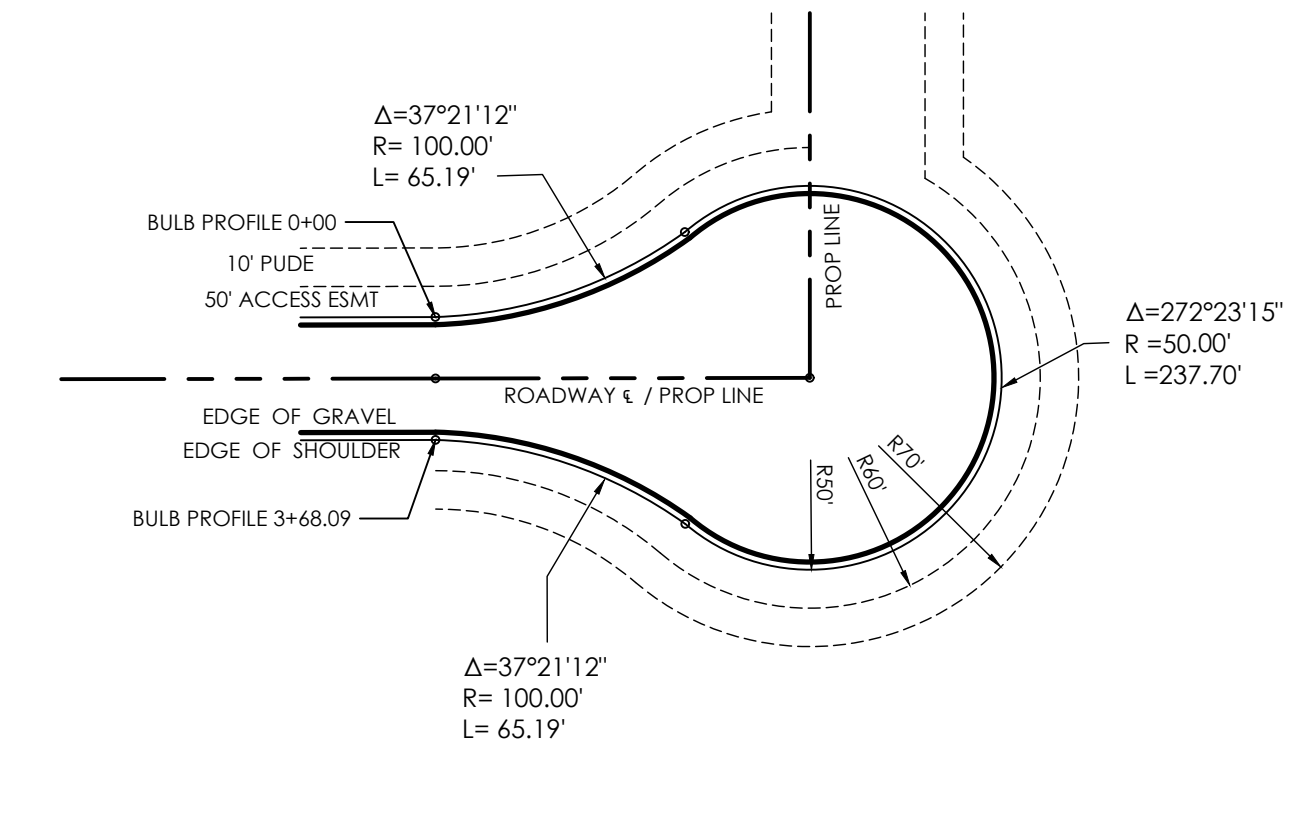
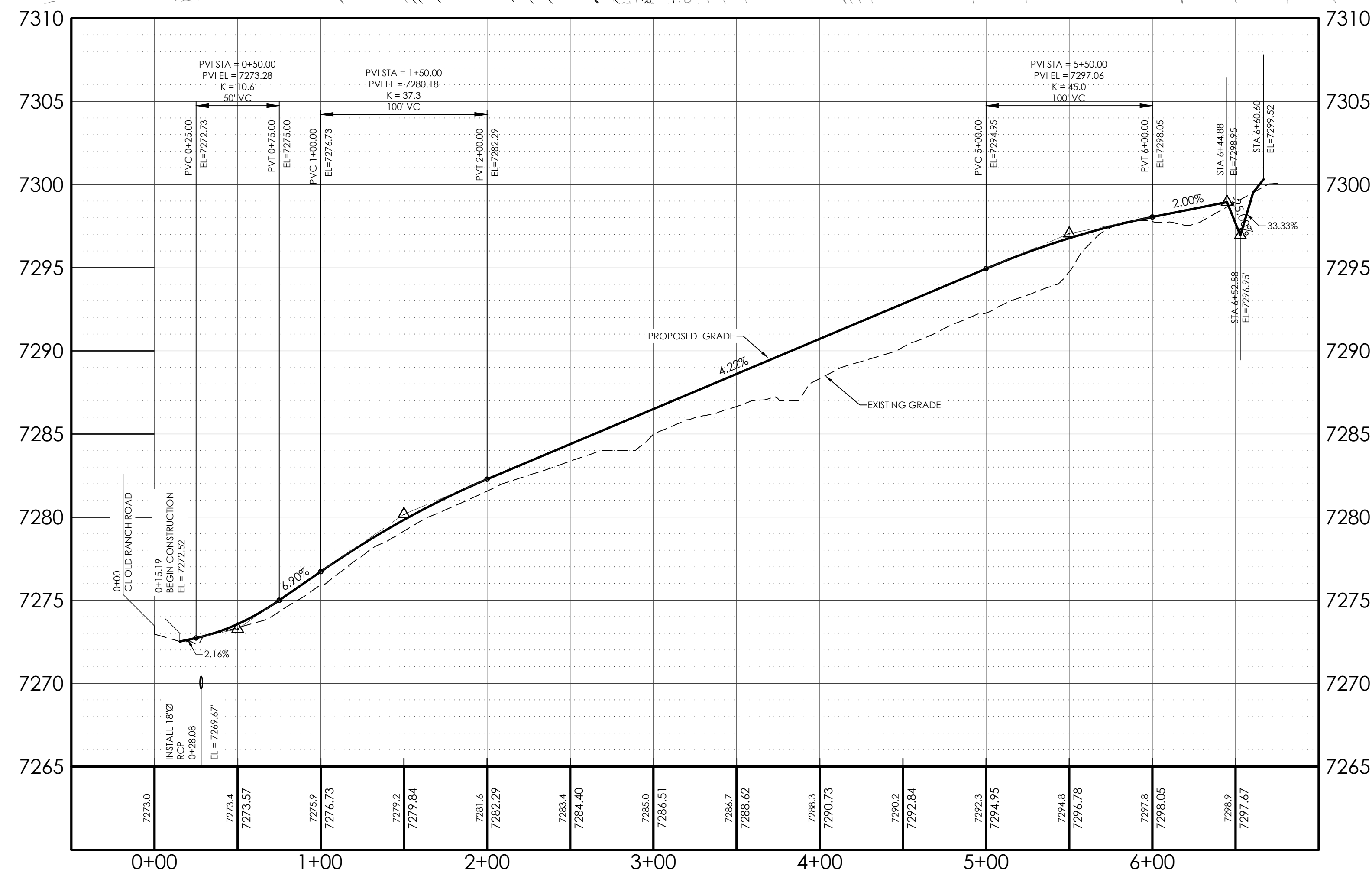
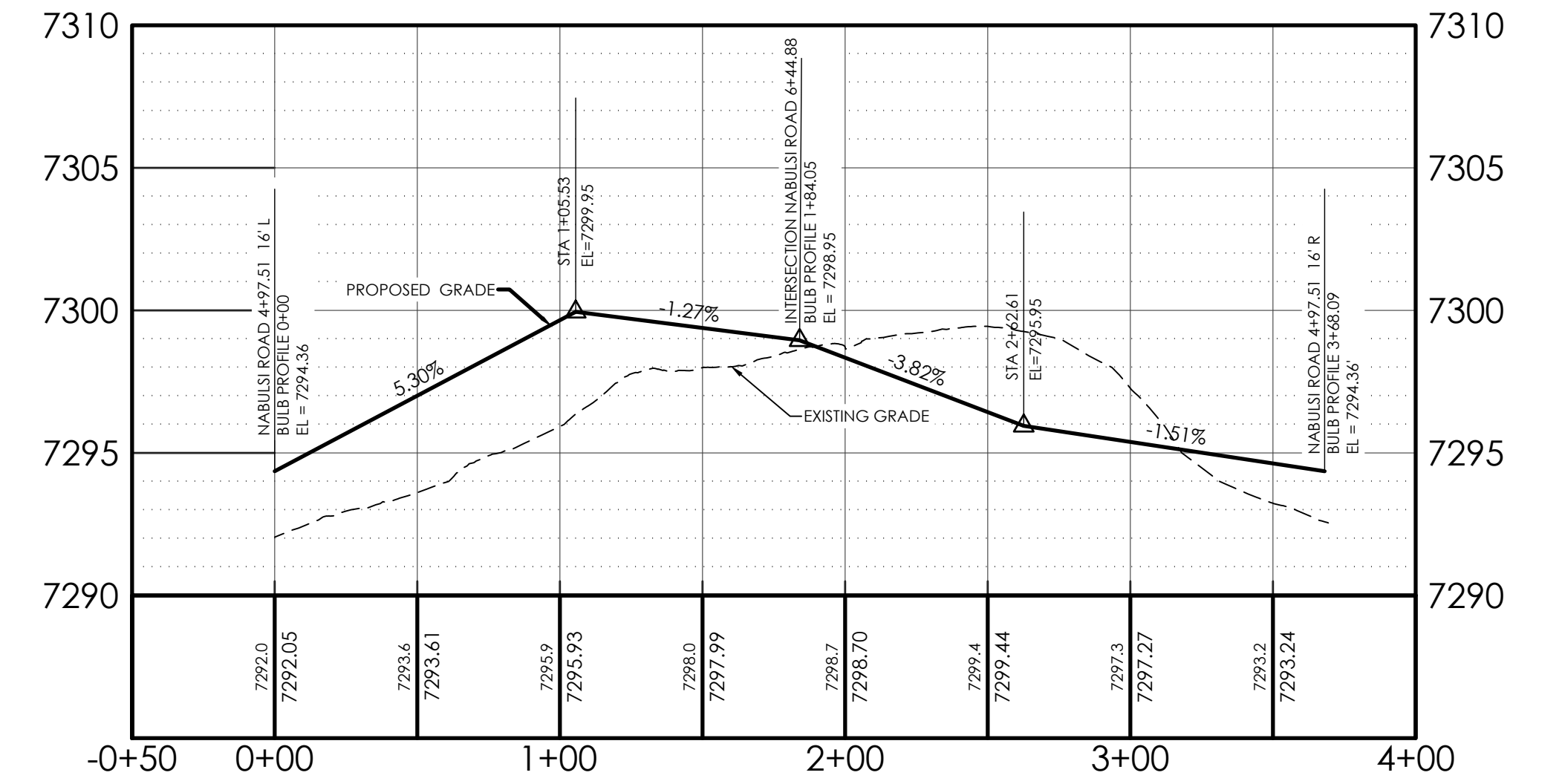
④  
N 00°01'20" W  
50.00'

BEGIN  
STA 6+75.07  
N: 10,616.63'  
E: 14,908.76'



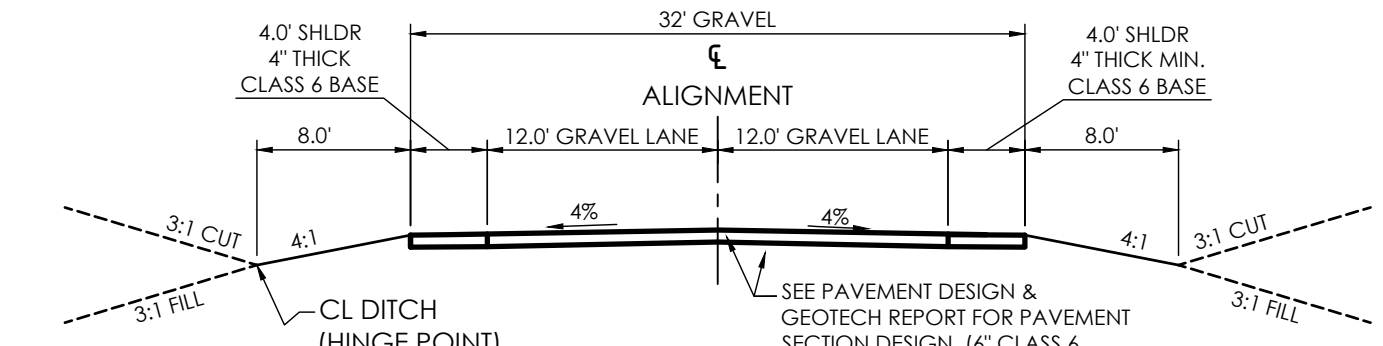
CUL-DE-SAC BULB PROFILE

SCALE 1" = 50'



CUL-DE-SAC DETAIL

SCALE 1" = 50'



RURAL GRAVEL LOCAL ROADWAY

SCALE 1" = 10'

BENCHMARK: THE BENCHMARK FOR THESE PLANS IS THE NO. 4 REBAR, LOCATED APPROX. 40' EAST OF THE PROPOSED ROADWAY & 10' NORTH OF EXISTING OLD RANCH ROAD EDGE OF GRAVEL ELEVATION = 7273.40' (NAVD88).

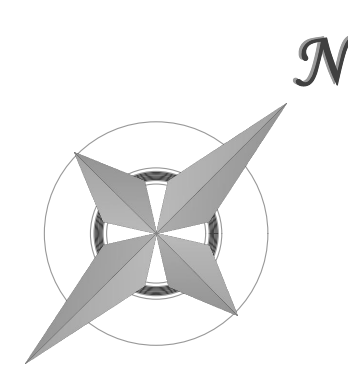
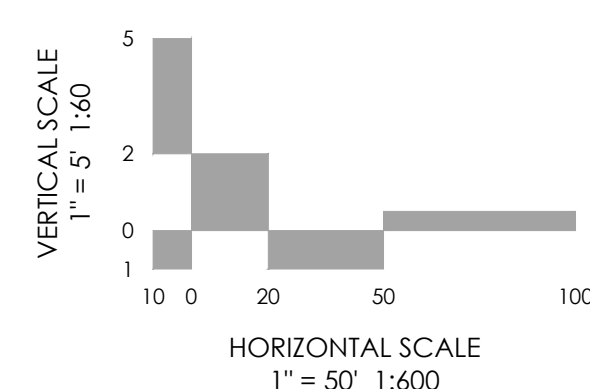
BASIS OF BEARINGS: THE SOUTH PROPERTY LINE OF LOT 4 WITH BEARING N89°58'40"E AND A DISTANCE OF 609.76'.

DESIGN DATA:

SIDEWALKS: WIDTH N/A  
LOCATION: Attached  Detached   
DESIGN SPEED: 20 MPH  
CURB TYPE:  A  B  C  D  E  
ROW WIDTH: N/A FL-FL N/A  
STREET TYPE: RURAL GRAVEL LOCAL

PAVEMENT:

TYPE: HMA  PCC   
THICKNESS: \_\_\_\_\_  
COMPOSITE SECTION:  
HMA \_\_\_\_\_ BASE \_\_\_\_\_  
SUBGRADE STABILIZATION:  
CHEMICAL TYPE \_\_\_\_\_ MECHANICAL THICKNESS \_\_\_\_\_



**MVE, INC.**  
ENGINEERS SURVEYORS

**MVE**

1903 Irelary street  
colorado springs  
719.635.5736

suite 200  
co 80909  
www.mvecivil.com

REVISIONS

MVE PROJECT **61201**  
MVE DRAWING **-CON-PP1**

SEPTEMBER 21, 2023

DESIGNED BY \_\_\_\_\_  
DRAWN BY JO  
CHECKED BY \_\_\_\_\_  
AS-BUILT BY \_\_\_\_\_  
CHECKED BY \_\_\_\_\_

**NABULSI ROAD**  
FROM STA 00+00.00

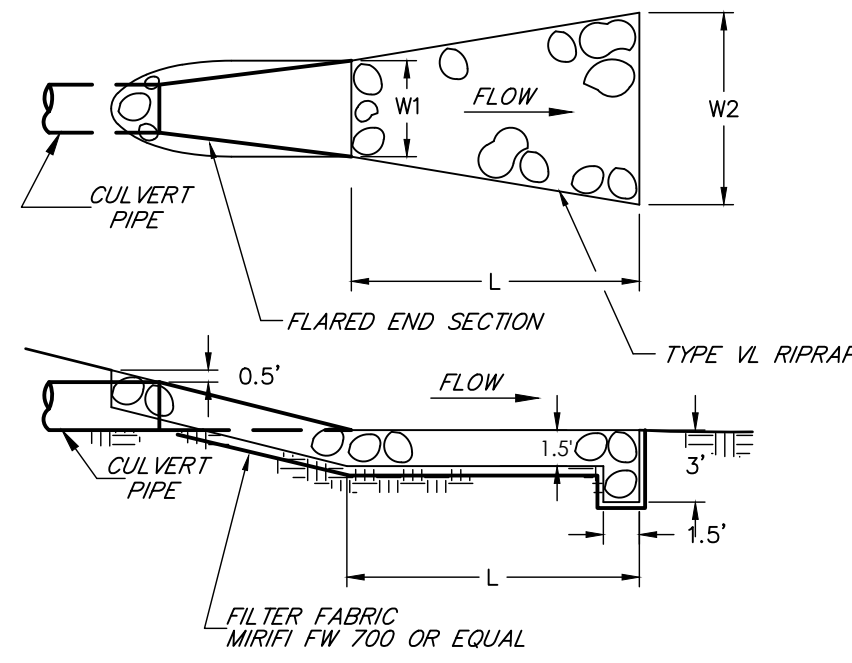
TO STA 6+61

NABULSI-ABUSHABAN SUBDIV.

**C1.2**

SHEET 2 OF 3

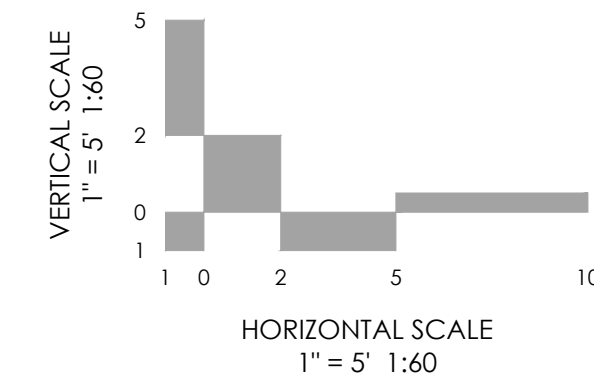
RIP-RAP GRADATION TABLE	
% SMALLER BY WEIGHT	TYPE VL INTER-ROCK DIM.(INCHES)
70 - 100	d <sub>100</sub> = 12
50 - 70	d <sub>70</sub> = 9
35 - 50	d <sub>50</sub> = 6
2 - 10	d <sub>10</sub> = 2



OUTLET  
RIPRAP AT CULVERT ENDS  
NTS

CULVERT NO.	CULVERT PIPE DATA				CULVERT OUTLET APRON DATA			
	ROAD NAME	ROAD STATION	RC PIPE DIA.	RC PIPE LENGTH (FT.)	FLARED END SECTION	W1 (FT.)	W2 (FT.)	L (FT.)
1	NABULSI ROAD	0+28.1	18"	79'	2	3	3	5

VOID-FILLED RIPRAP AND GRADATION			
RIPRAP DESIGNATION	% SMALLER THAN GIVEN SIZE BY WEIGHT	INTERMEDIATE ROCK DIMENSION (INCHES)	D50 (INCHES)
TYPE VL	70-100	12	6
	50-70	9	
	35-50	6	
	2-10	2	

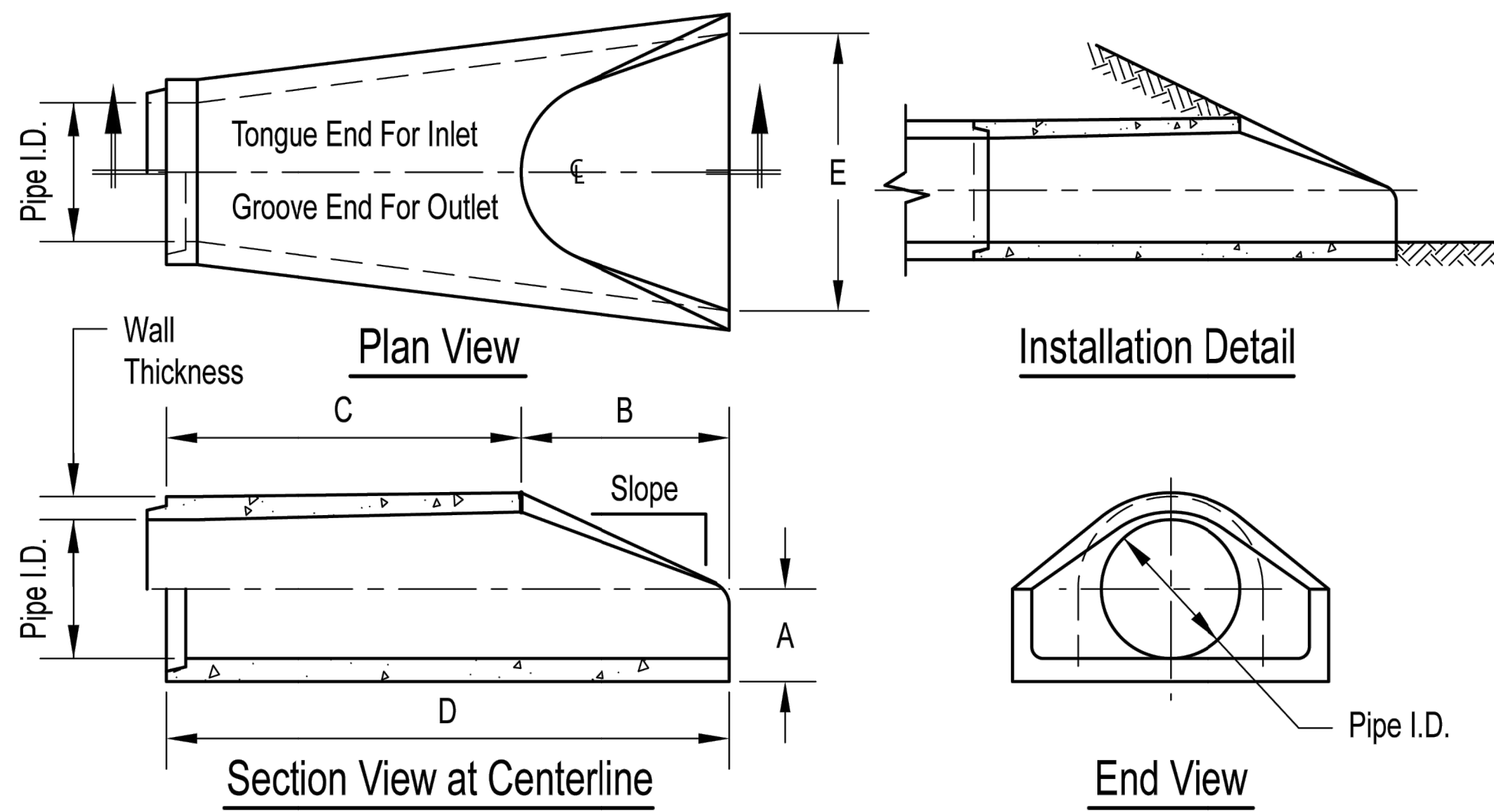


MIX REQUIREMENTS FOR TYPE VL VOID-FILLED RIPRAP (D50 = 6 - INCH)		
APPROPRIATE PROPORTIONS (BY VOLUME)	MATERIAL TYPE	MATERIAL DESCRIPTION
6 PARTS	RIPRAP	D50 = 6 INCH (TYPE VL)
1 PART	VOID-FILL MATERIAL	VTC (VEHICLE TRACKING CONTROL) ROCK (CRUSHED ROCK WITH 100% PASSING 4-INCH SIEVE, 50-70% PASSING 3-INCH SIEVE, 0-10% PASSING 2-INCH SIEVE)
1 PART	VOID-FILL MATERIAL	4-INCH MINUS PIT RUN SURGE (ROUND RIVER ROCK AND SAND, WELL GRADED, 90-100% PASSING 4-INCH SIEVE, 70-80% PASSING 1 1/2-INCH SIEVE, 40-60% PASSING 3/8-INCH SIEVE, 10-30% PASSING #16 SIEVE)
1 PART	VOID-FILL MATERIAL	TYPE II BEDDING (CRUSHED ROCK WITH 100% PASSING 3-INCH SIEVE, 20-90% PASSING 1/2-INCH SIEVE, 0-20% PASSING #4 SIEVE, 0-3% PASSING #200 SIEVE)
1/2 TO 1 PART	VOID-FILL MATERIAL	NATIVE TOPSOIL



Concrete Pipe Division

Flared End Section  
12" - 72" Diameter Pipe



Pipe Inner Diameter (inches)	Wall Thickness (inches)	A (inches)	B (inches)	C (inches)	D (inches)	E (inches)	Slope
12	2	4	24	48 7/8	72 7/8	30	3:1
15	2 1/4	6	27	46	73	30	3:1
18	2 1/2	9	27	46	73	36	3:1
24	3	9 1/2	43 1/2	30	73 1/2	48	3:1
30	3 1/2	12	54	19 3/4	73 3/4	60	3:1
36	4	15	63	34 3/4	97 3/4	72	3:1
42	4 1/2	21	63	35	98	78	3:1
48	5	24	72	26	98	84	3:1
54	5 1/2	27	65	35	100	90	2.4:1
60	6	30	60	39	99	96	2:1
66	6 1/2	32	78	21	99	102	2:1
72	7	34	78	21	99	108	2:1

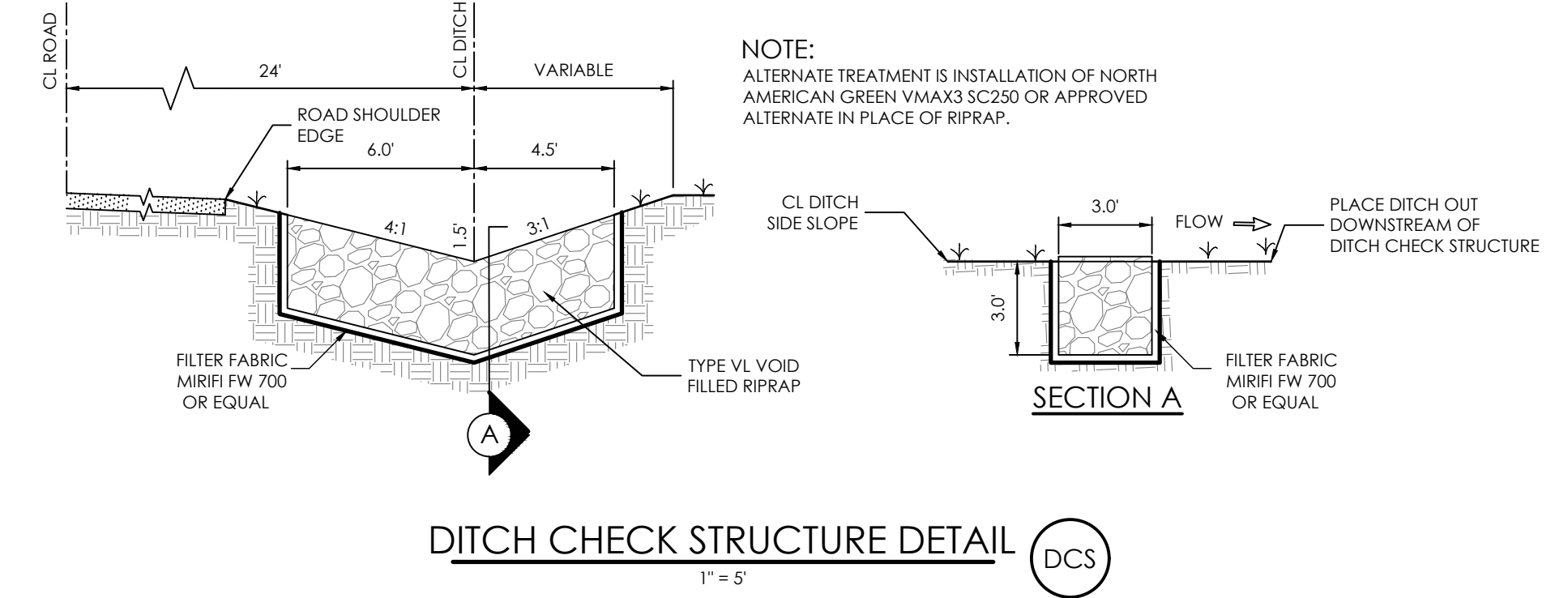
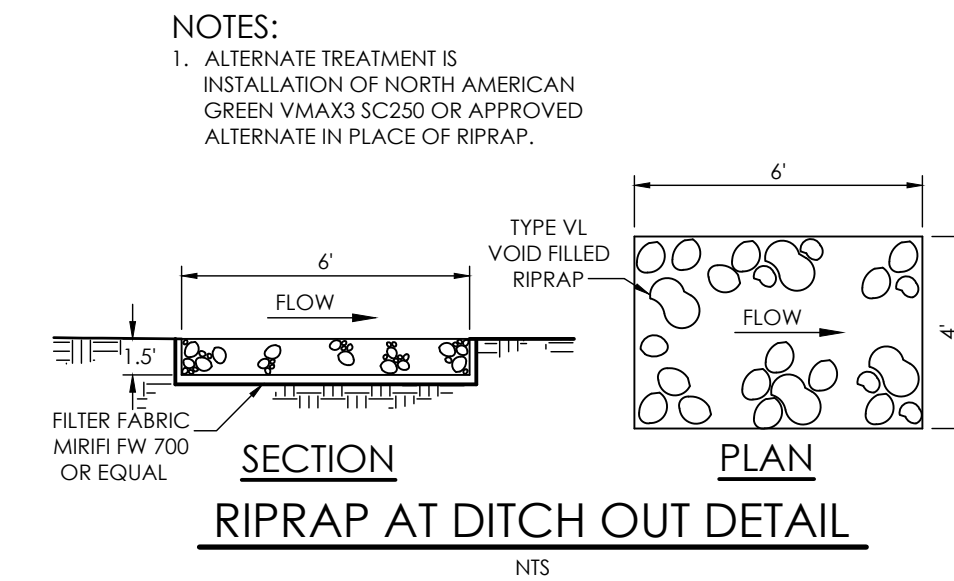
Dimensions may vary depending upon equipment availability.

Notes:

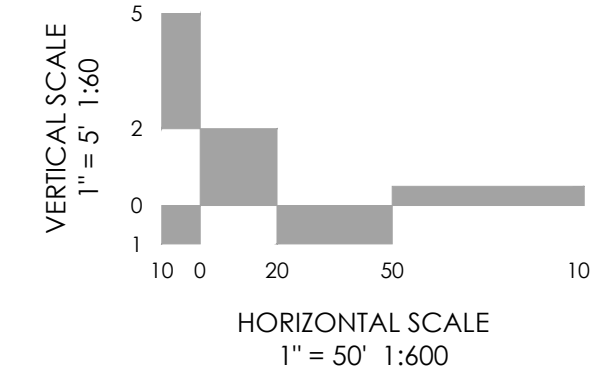
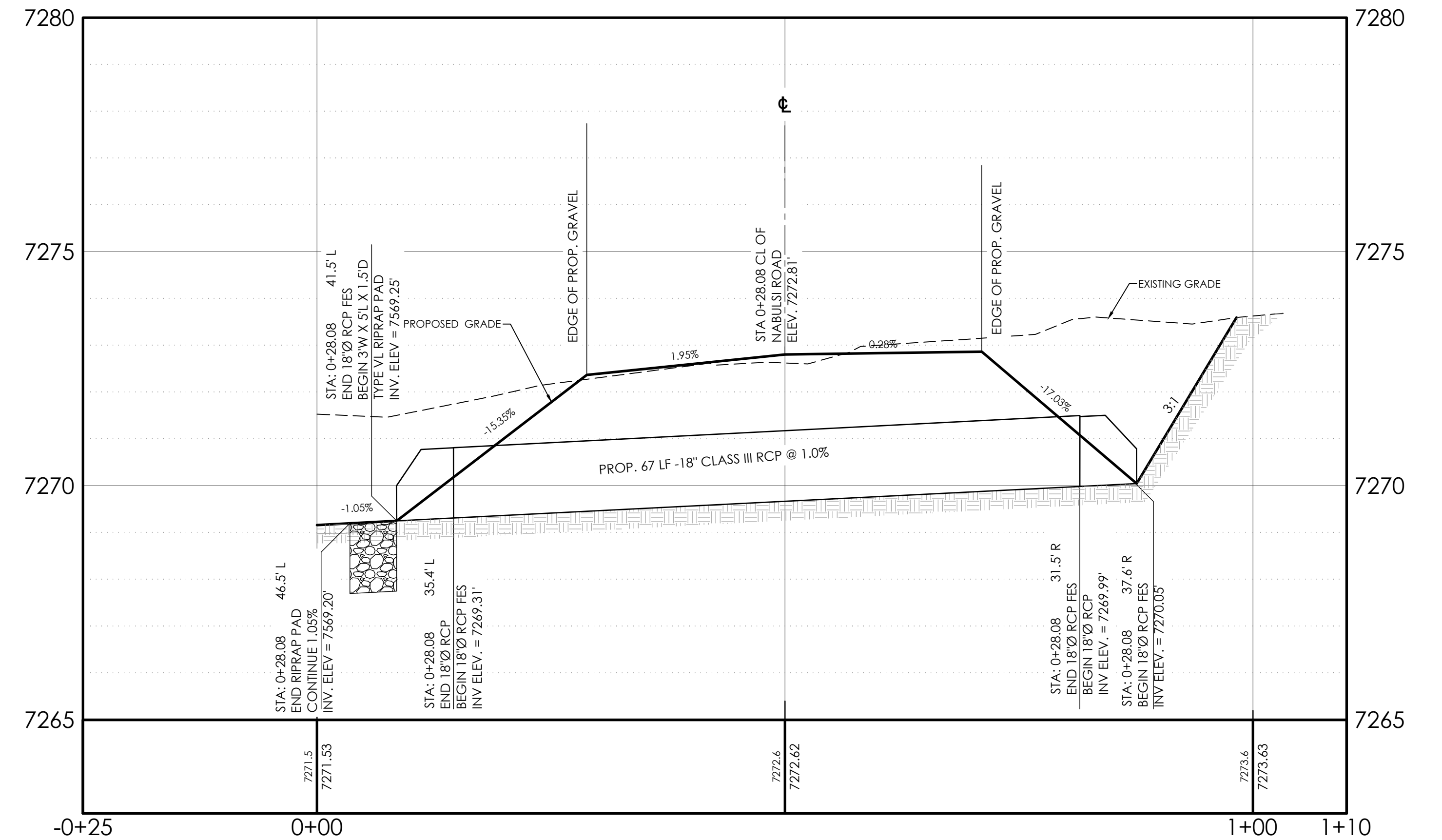
- Produced to meet ASTM specifications.
- Contact a Concrete Pipe Division representative for details not listed on this sheet.

Rinker 024

RIP-RAP GRADATION TABLE	
% SMALLER BY WEIGHT	TYPE VL SPECIAL INTER-ROCK DIM.(INCHES)
70 - 100	d <sub>100</sub> = 8
50 - 70	d <sub>70</sub> = 6
35 - 50	d <sub>50</sub> = 3
2 - 10	d <sub>10</sub> = 2



PROPOSED CULVERT  
NABULSI ROAD STA 0+28.08  
HORIZONTAL: 1" = 10'  
VERTICAL: 1" = 2'



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PAVEMENT:  
TYPE: HMA  PCC   
THICKNESS: \_\_\_\_\_  
COMPOSITE SECTION:  
HMA \_\_\_\_\_ BASE \_\_\_\_\_  
SUBGRADE STABILIZATION:  
CHEMICAL TYPE \_\_\_\_\_ MECHANICAL THICKNESS \_\_\_\_\_



REVISIONS

MVE PROJECT 61201  
MVE DRAWING -CON-DS

JULY 20, 2023

DESIGNED BY \_\_\_\_\_  
DRAWN BY JO \_\_\_\_\_  
CHECKED BY \_\_\_\_\_  
AS-BUILT BY \_\_\_\_\_  
CHECKED BY \_\_\_\_\_

NABULSI ROAD  
FROM STA 00+00.00

TO STA 6+67.5

NABULSI-ABUSHABAN SUBDIV.

C1.2

SHEET 3 OF 3