

PROJECT REFERENCE NO.
U-5797

SHEET NO.
4

RW SHEET NO.

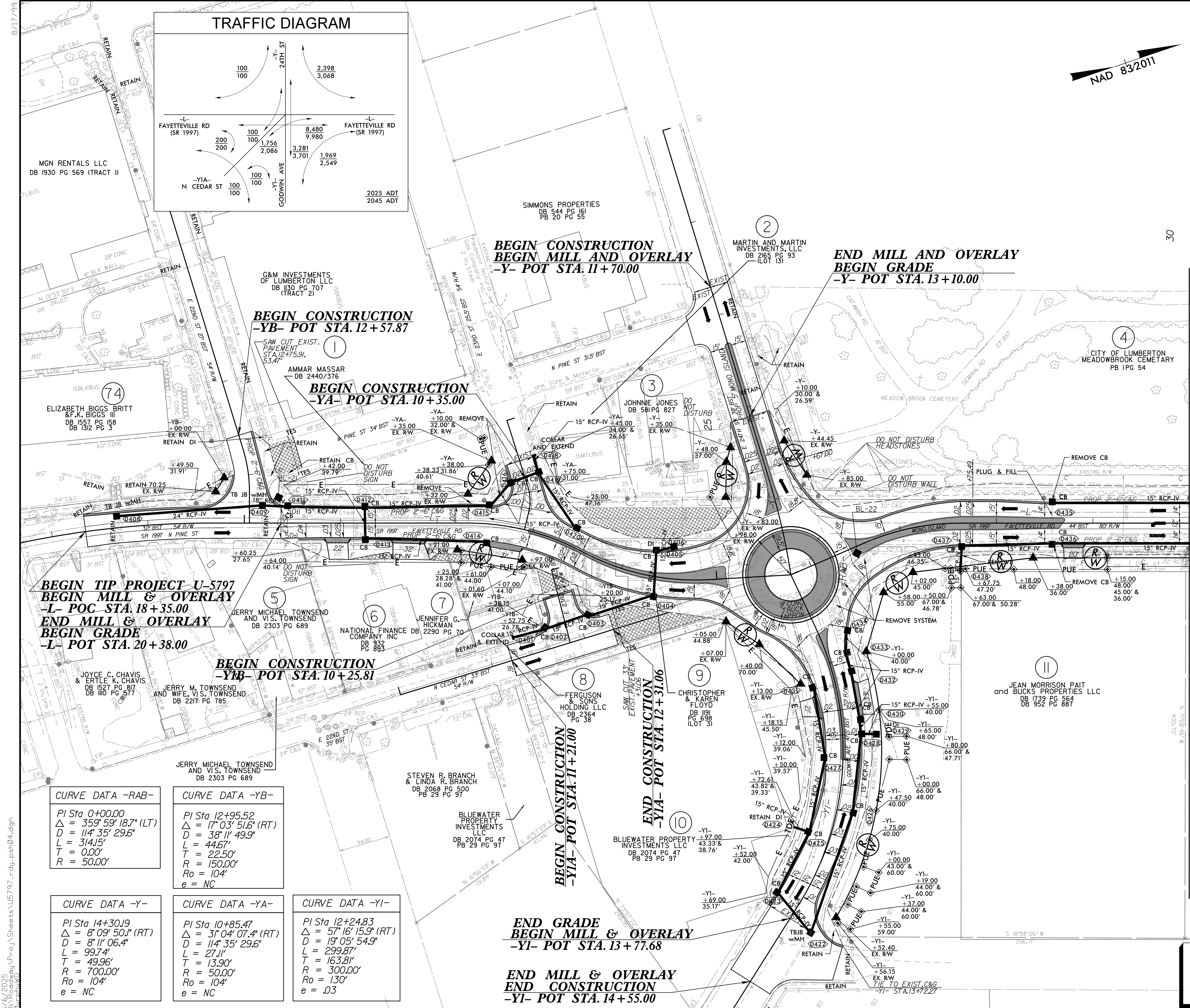
ROADWAY DESIGN ENGINEER

HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

STV Engineers, Inc.
2121 RDU Center Dr.
Suite 210
Morrisville, NC 27560
NC License Number F-0991

NOTE: PARCEL 9 IS A TOTAL TAKE,
COMBINE WITH EXISTING ROW



CURVE DATA -RAB-

PI Sta 0+00.00
$\Delta = 359^{\circ} 59' 18.7''$ (LT)
D = 114' 35" 29.6"
L = 314.15'
T = 0.00'
R = 50.00'

CURVE DATA -YB-

PI Sta 12+95.52
$\Delta = 17^{\circ} 03' 51.6''$ (RT)
D = 38' 11" 49.9"
L = 44.67'
T = 22.50'
R = 150.00'
Ro = 104'
e = NC

CURVE DATA -Y-

PI Sta 14+30.19
$\Delta = 8^{\circ} 09' 50.1''$ (RT)
D = 8' 11" 06.4"
L = 99.74'
T = 49.96'
R = 700.00'
Ro = 104'
e = NC

CURVE DATA -YA-

PI Sta 10+85.47
$\Delta = 31^{\circ} 04' 07.4''$ (RT)
D = 114' 35" 29.6"
L = 27.11'
T = 13.90'
R = 50.00'
Ro = 104'
e = NC

CURVE DATA -YI-

PI Sta 12+24.83
$\Delta = 57^{\circ} 16' 15.9''$ (RT)
D = 19' 05" 54.9"
L = 299.87'
T = 163.81'
R = 300.00'
Ro = 130'
e = .03

CURVE DATA -L-

PI Sta 18+23.20	PI Sta 22+95.02
$\Delta = 17^{\circ} 05' 55.1''$ (RT)	$\Delta = 28^{\circ} 07' 50.8''$ (RT)
D = 5' 59" 58.4"	D = 22' 55" 05.9"
L = 285.00'	L = 122.74'
T = 143.57'	T = 62.64'
R = 955.00'	R = 250.00'
	Ro = 128'
	e = NC

PI Sta 24+25.67	PI Sta 27+12.07
$\Delta = 31^{\circ} 30' 51.2''$ (LT)	$\Delta = 23^{\circ} 24' 37.4''$ (RT)
D = 22' 55" 05.9"	D = 22' 55" 05.9"
L = 137.51'	L = 102.15'
T = 70.54'	T = 51.80'
R = 250.00'	R = 250.00'
Ro = 104'	Ro = 104'
e = NC	e = NC

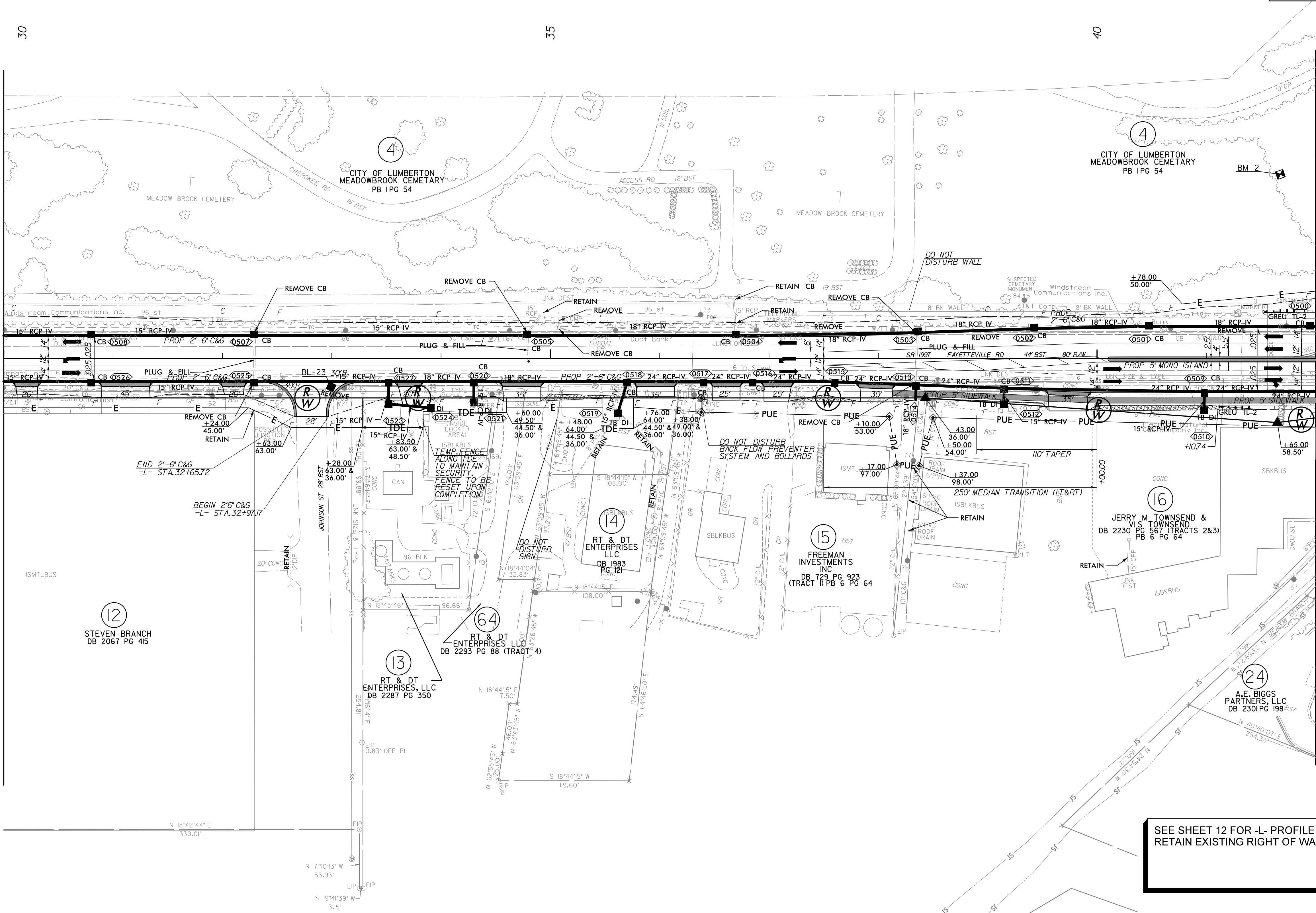
MATCHLINE -L- STA 30+00 SEE SHEET 5

SEE SHEET 2B-1 FOR INTERSECTION DETAILS
SEE SHEET 12 FOR -L- PROFILE
SEE SHEET 15 FOR -Y-, -RAB-, -YI-, AND -YA- PROFILES
RETAIN EXISTING RIGHT OF WAY

8/17/99
3/6/2025
C:\Users\perry\OneDrive\Documents\Projects\U5797\rdy_psh04.dgn

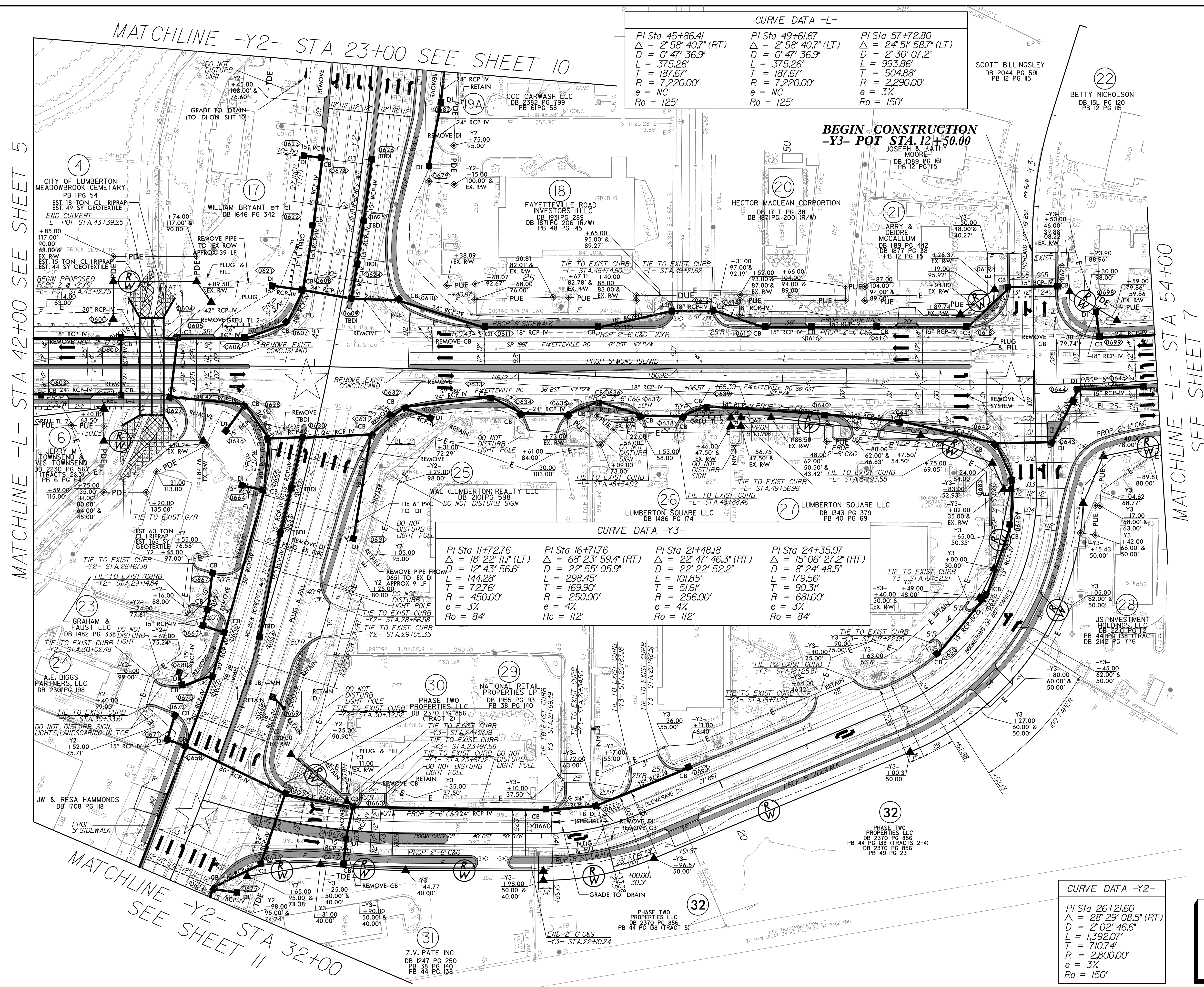
PROJECT REFERENCE NO. U-5797		SHEET NO. 5
RW SHEET NO.		
ROADWAY DESIGN ENGINEER SEAL 049235 8/2025 JASON D. MURPHY	HYDRAULICS ENGINEER SEAL 051699 3/2025 FRANK A. FREED	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		
STV STV Engineers, Inc. 2121 RDU Center Dr. Suite 210 Morrisville, NC 27560 NC License Number F-0991		

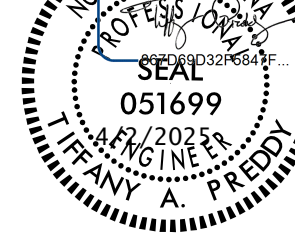
MATCHLINE -L- STA 30+00 SEE SHEET 4



MATCHLINE -L- STA 42+00 SEE SHEET 6

SEE SHEET 12 FOR -L- PROFILE
RETAIN EXISTING RIGHT OF WAY



PROJECT REFERENCE NO.	SHEET NO.
U-5797	6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER 
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SEE SHEET 2B-2 FOR INTERSECTION
DETAILS
SEE SHEET 13 FOR -L- PROFILE
SEE SHEET 16 FOR -Y2- PROFILE
SEE SHEET 17 FOR -Y3- PROFILES
RETAIN EXISTING RIGHT OF WAY
SEE SHEET C2-1 TO C2-11 FOR
CULVERT PLANS

PROJECT REFERENCE NO.
U-5797

SHEET NO.
7

RW SHEET NO.

ROADWAY DESIGN ENGINEER

HYDRAULICS ENGINEER

SEAL
049235
12/2025
ENGINEER
WESTON D. MURPHY

SEAL
051699
12/2025
ENGINEER
FRANKY A. FREED

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STV

STV Engineers, Inc.
2121 RDU Center Dr.
Suite 210
Morrisville, NC 27560
NC License Number F-0991

NOTE: GUARDRAIL TO BE PLACED 2' FROM EOT,
1.25' FROM FACE OF 1'-6" CURB AND GUTTER

GUARDRAIL TO BE PLACED AT FACE OF
2'-9" CURB AND GUTTER

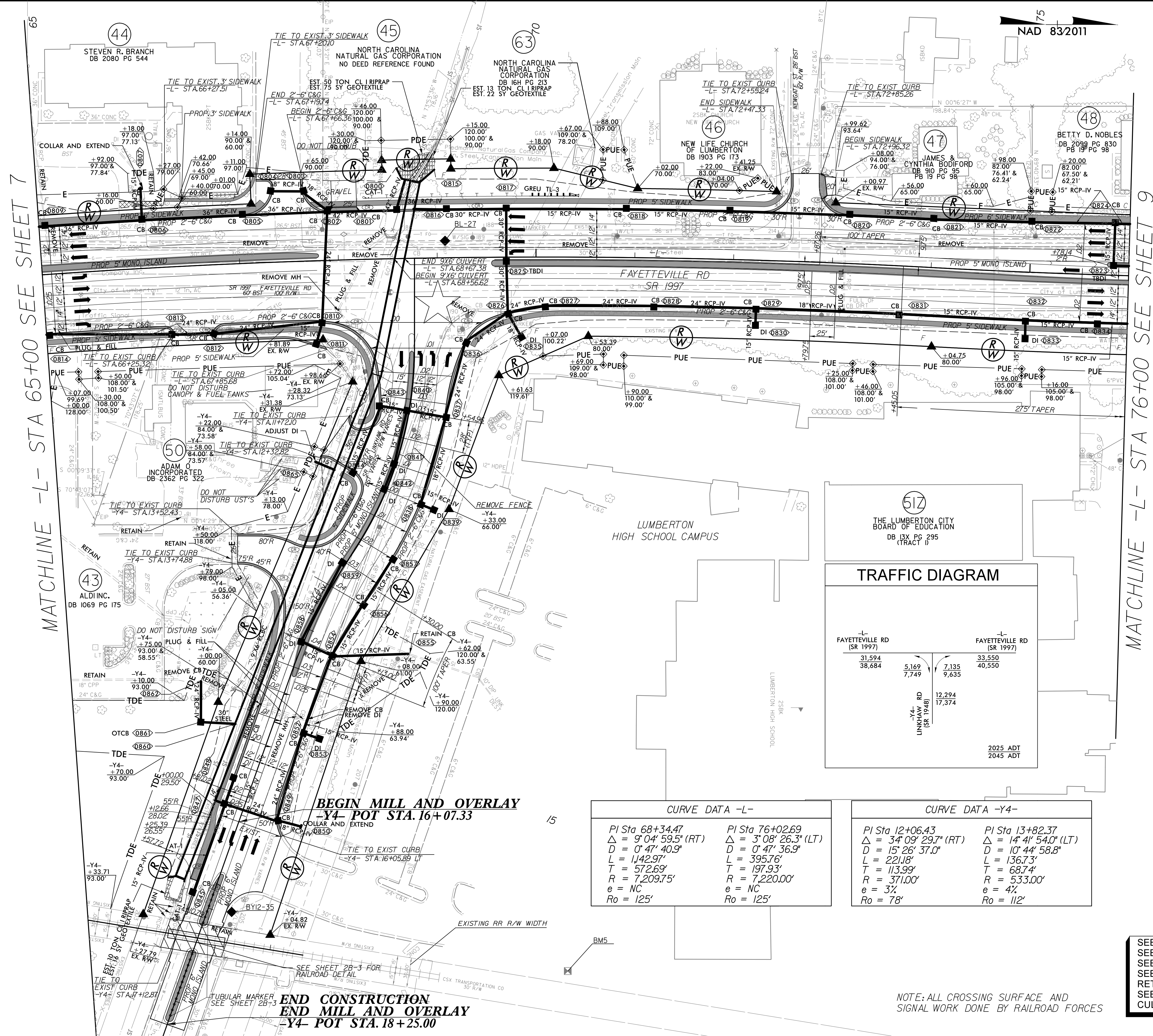
CURVE DATA -L-	
PI Sta 57+72.80 Δ = 24° 51' 58.7" (LT) D = 2' 30" 07.2" L = 993.86' T = 504.88' R = 2,290.00' e = 3% Ro = 150'	PI Sta 68+34.47 Δ = 9° 04' 59.5" (RT) D = 0' 47' 40.9" L = 1,142.97' T = 572.69' R = 7,209.75' e = NC Ro = 125'

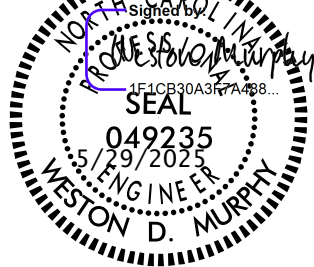
SEE SHEET 13 FOR -L- PROFILE
RETAIN EXISTING RIGHT OF WAY

NAD 83/2011

MATCHLINE -L- STA 54+00 SEE SHEET 6

MATCHLINE -L- STA 65+00 SEE SHEET 8



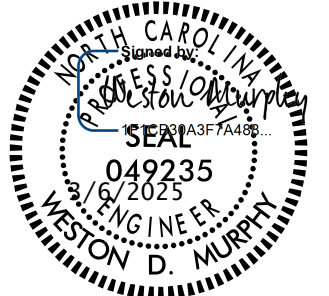
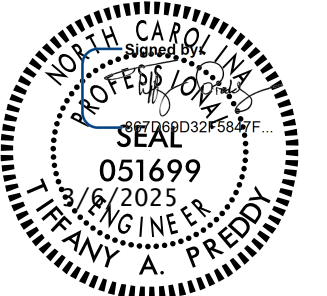
PROJECT REFERENCE NO.		SHEET NO.	
U-5797		8	
RW SHHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
			
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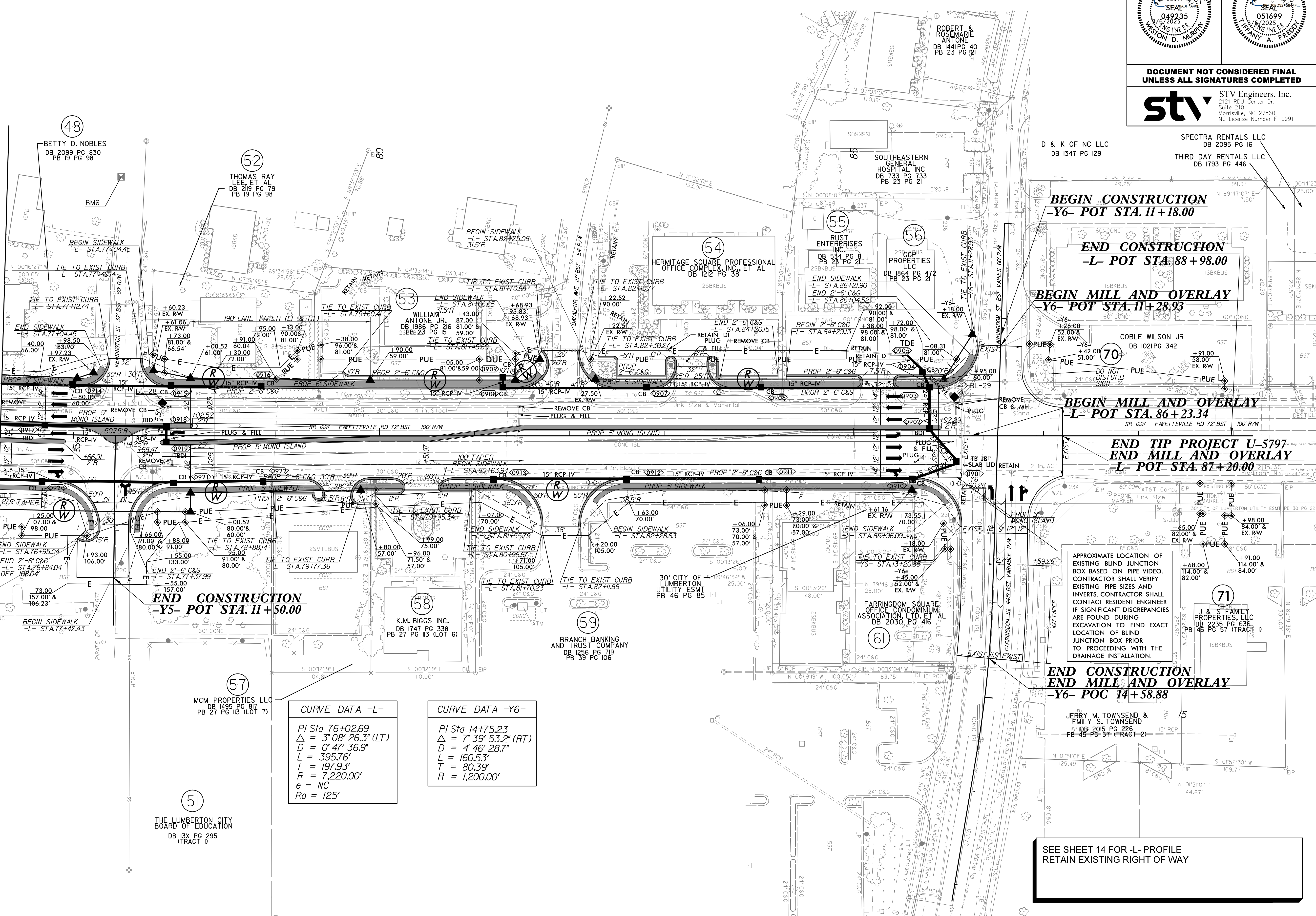
UPGRADED
SIGNAL

SEE SHEET 2B-2 FOR INTERSECTION DETAILS
SEE SHEET 2B-3 FOR RAILROAD DETAILS
SEE SHEET 14 FOR -L- PROFILE
SEE SHEET 18 FOR -Y4- PROFILE
RETAIN EXISTING RIGHT OF WAY
SEE SHEETS C3-1 THRU C3-17 FOR
CULVERT PLANS

MATCHLINE -L- STA 76+00 SEE SHEET 8

NAD 83/2011

PROJECT REFERENCE NO. U-5797		SHEET NO. 9
RW SHEET NO.		HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	STV Engineers, Inc. 2121 RDU Center Dr Suite 210 Morrisville, NC 27560 NC License Number F-0991	
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CURVE DATA -L-

PI Sta 76+02.69
$\Delta = 3^{\circ} 08' 26.3''$ (LT)
$D = 0^{\circ} 47' 36.9''$
$L = 395.76'$
$T = 197.93'$
$R = 7,220.00'$
$e = NC$
$Ro = 125'$

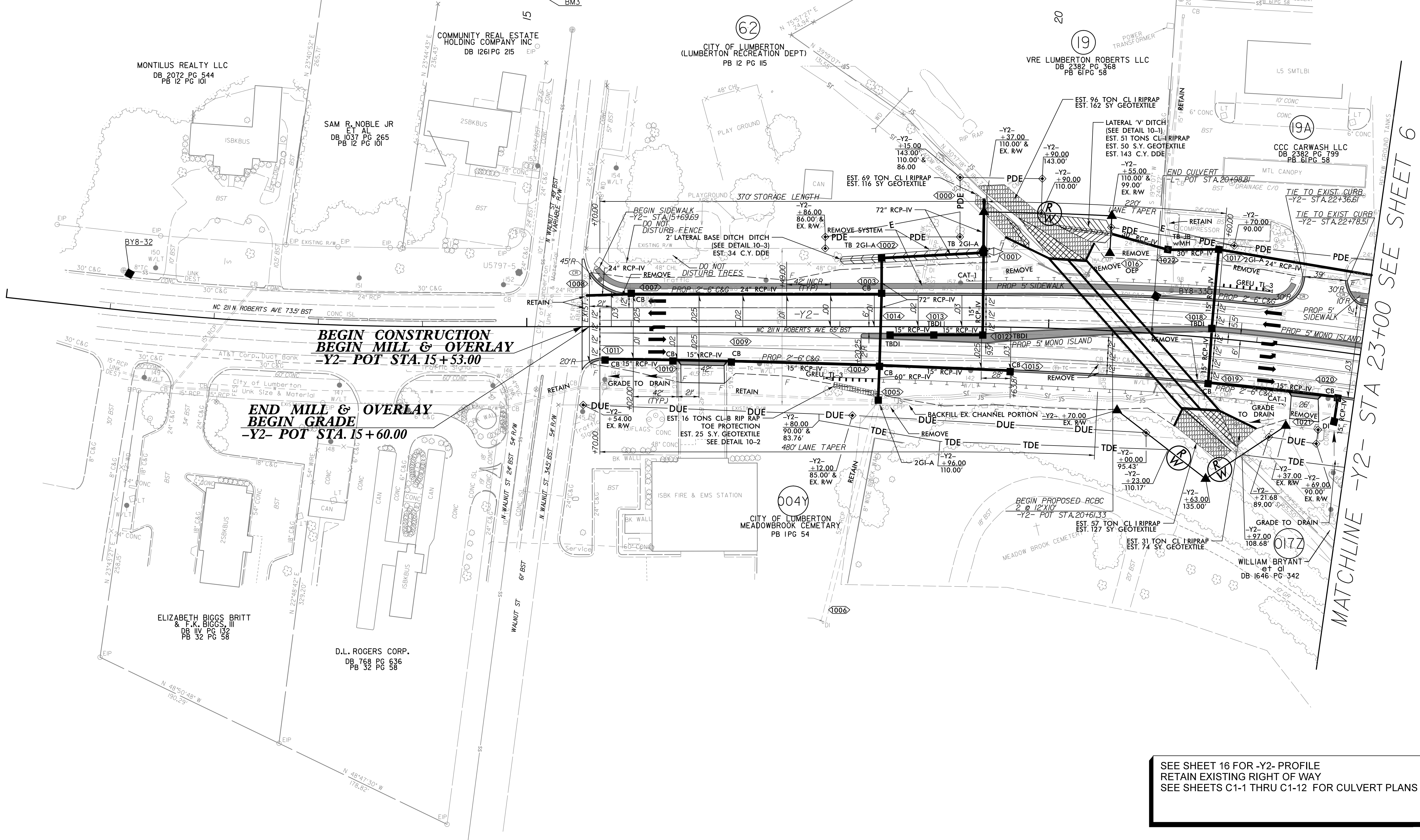
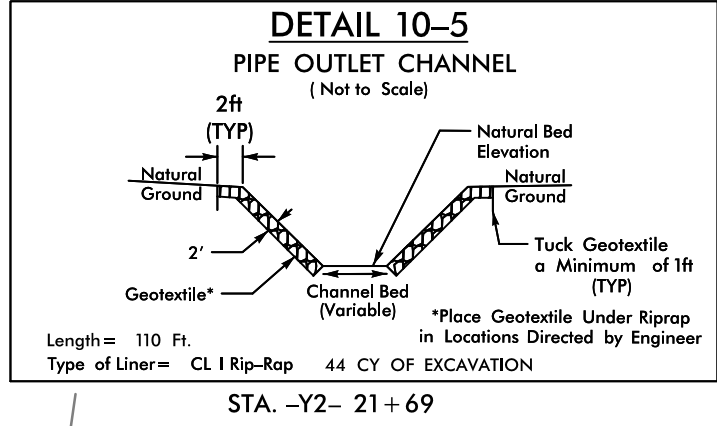
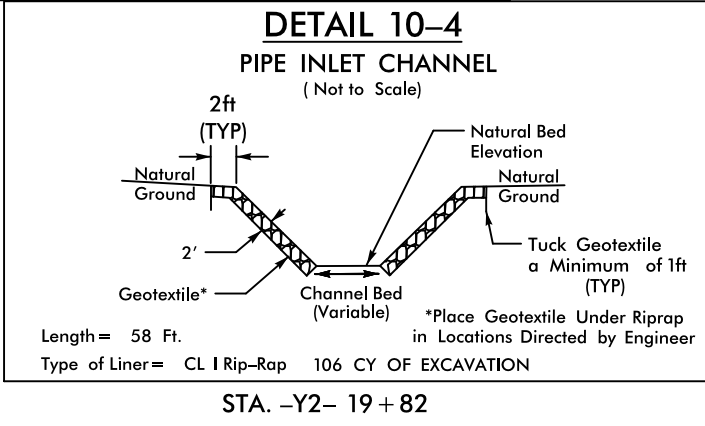
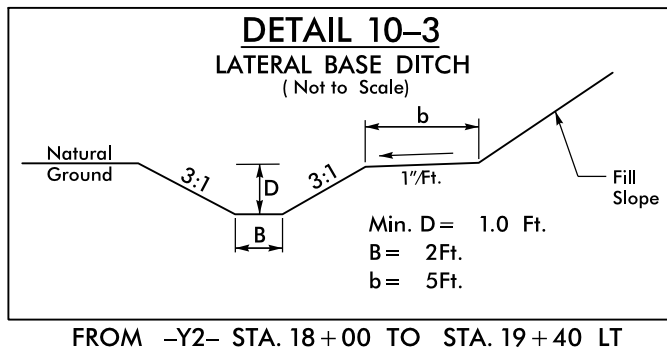
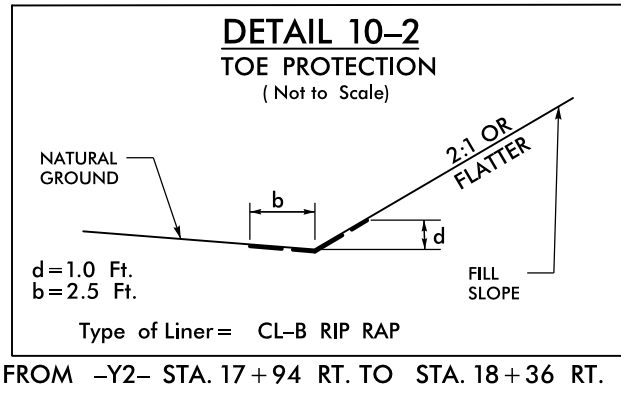
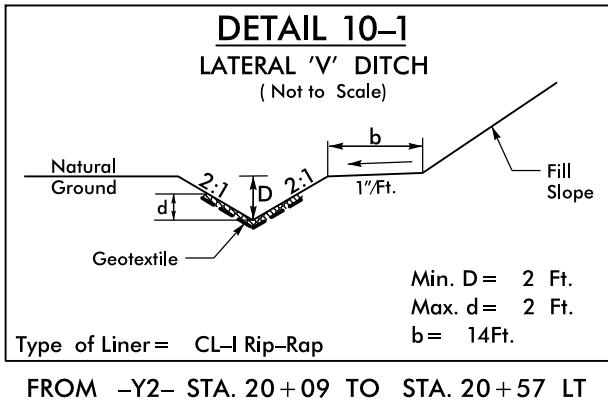
CURVE DATA -Y6-

PI Sta 14+75.23
$\Delta = 7^{\circ} 39' 53.2''$ (RT)
$D = 4^{\circ} 46' 28.7''$
$L = 160.53'$
$T = 80.39'$
$R = 1,200.00'$

SEE SHEET 14 FOR -L- PROFILE
RETAIN EXISTING RIGHT OF WAY

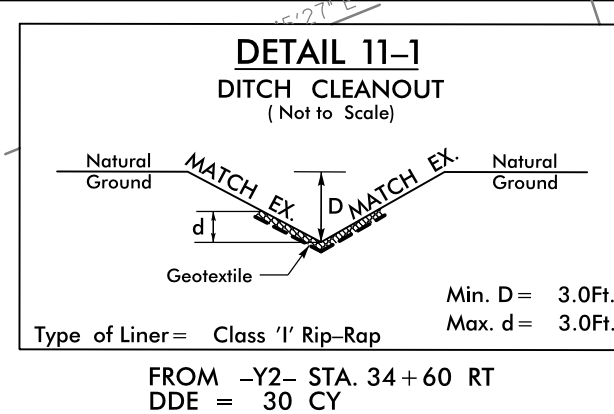
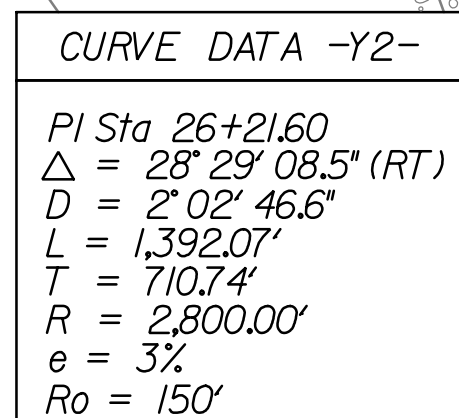
8/17/99

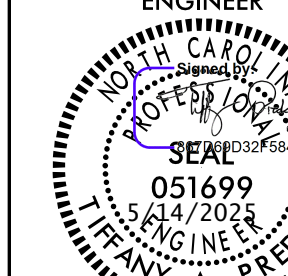
CURVE DATA -Y2-	
PI Sta 12+56.52 $\Delta = 6^{\circ}15'17.1" (LT)$ $D = 1^{\circ}59'59.5"$ $L = 312.76'$ $T = 156.54'$ $R = 2,865.00'$	PI Sta 26+21.60 $\Delta = 28^{\circ}29'08.5" (RT)$ $D = 2^{\circ}02'46.6"$ $L = 1,392.07'$ $T = 710.74'$ $R = 2,800.00'$ $e = 3\frac{1}{2}"$ $Ro = 150'$

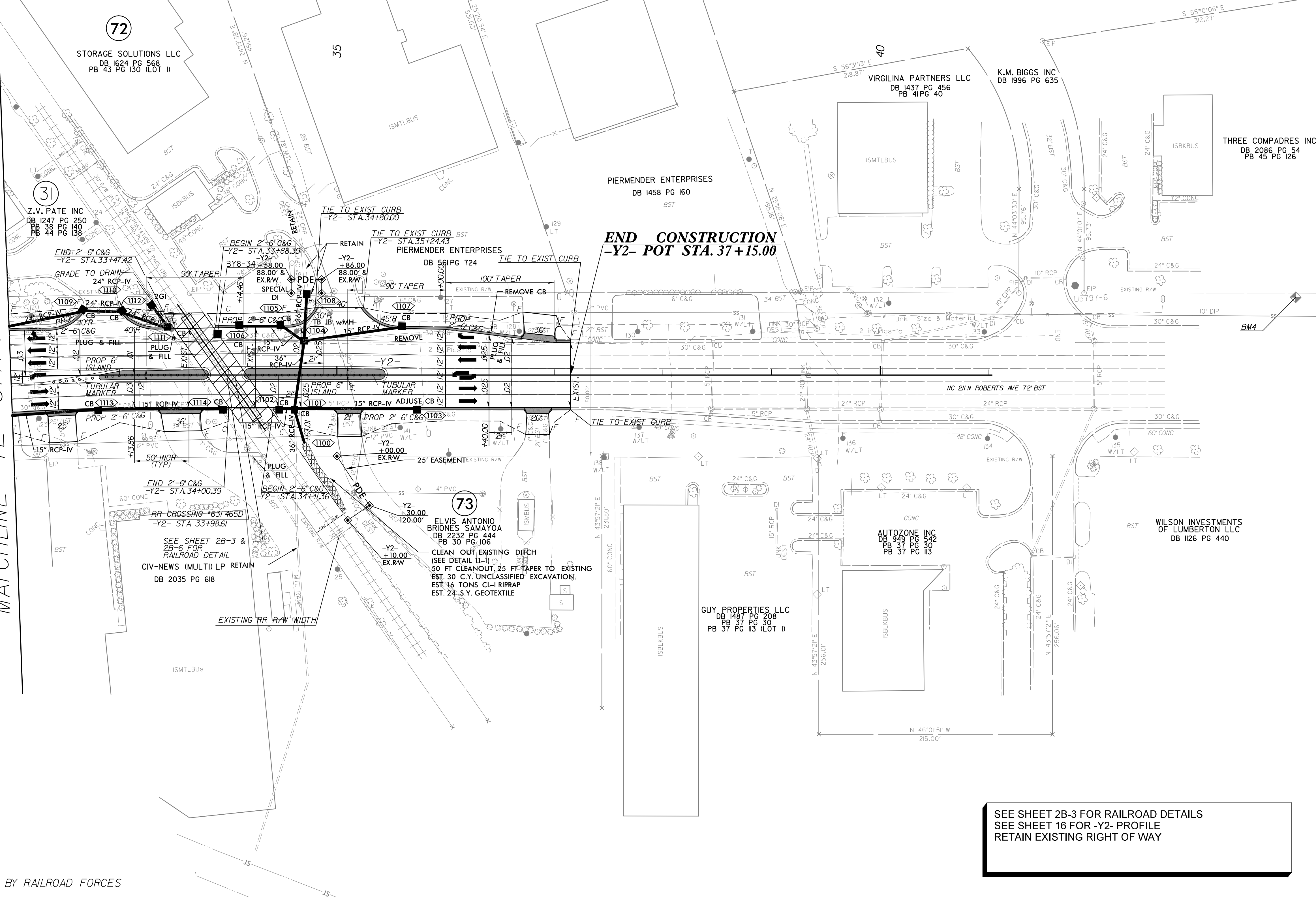


SEE SHEET 16 FOR -Y2- PROFILE
RETAIN EXISTING RIGHT OF WAY
SEE SHEETS C1-1 THRU C1-12 FOR CULVERT PLANS

PROJECT REFERENCE NO. U-5797		SHEET NO. 10	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
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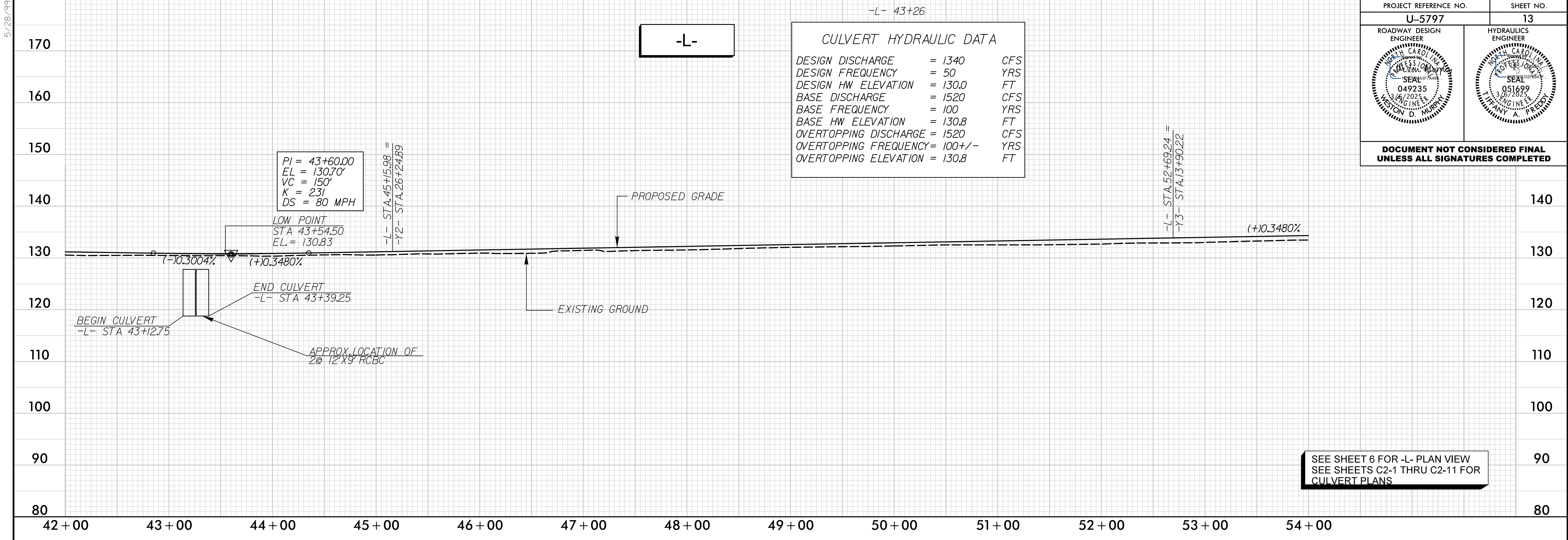


PROJECT REFERENCE NO.	SHEET NO.
<i>U-5797</i>	<i>11</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER 
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED  STV Engineers, Inc. 2121 RDJ Center Dr. Suite 210 Morrisville, NC 27560 NC License Number F-0991	

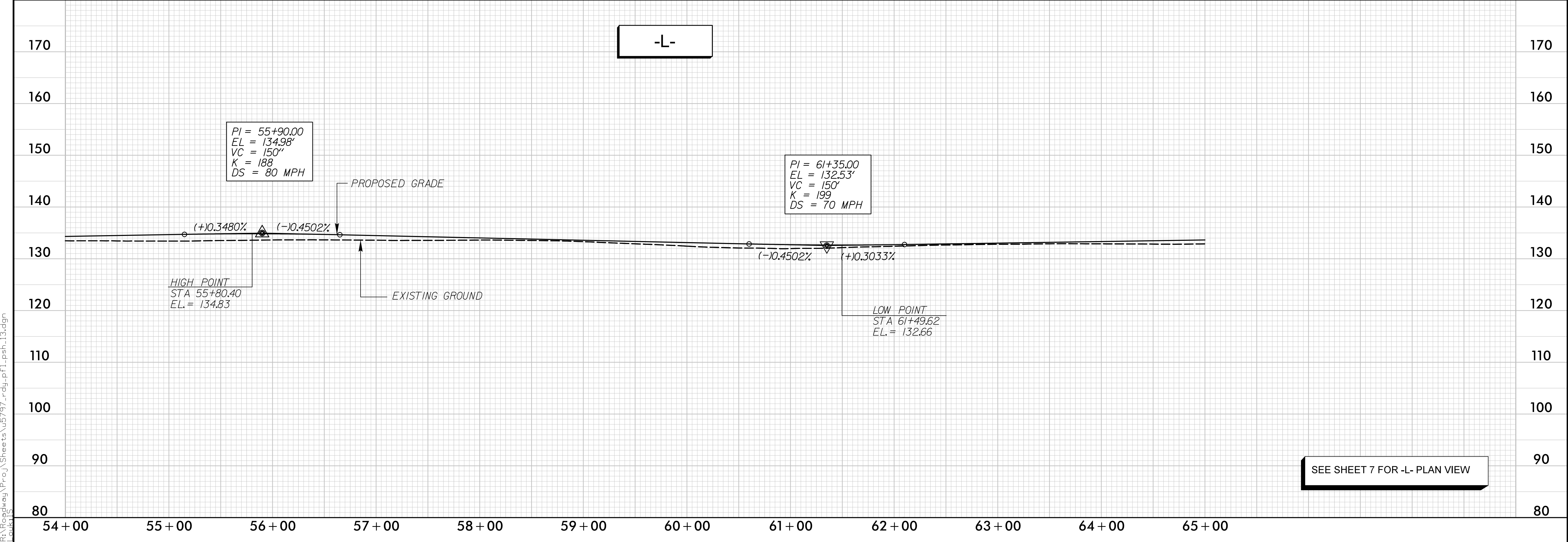


NOTE: ALL CROSSING SURFACE AND SIGNAL WORK DONE BY RAILROAD FORCES

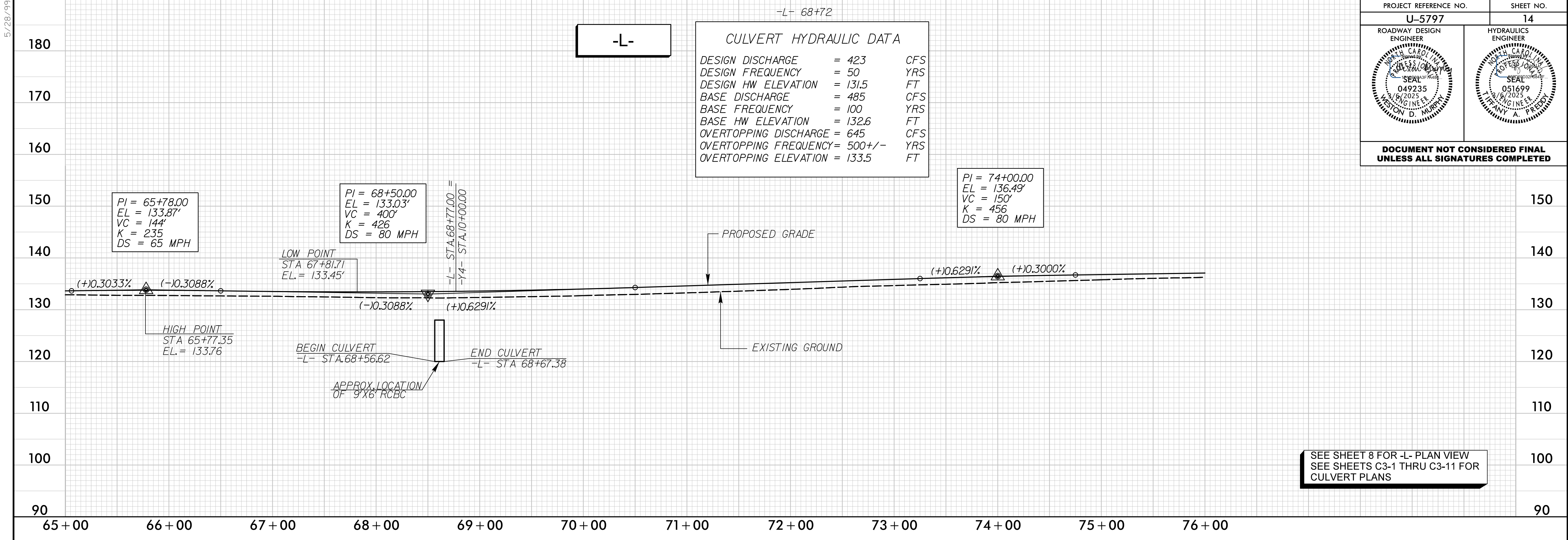
5/28/99



3/6/2025
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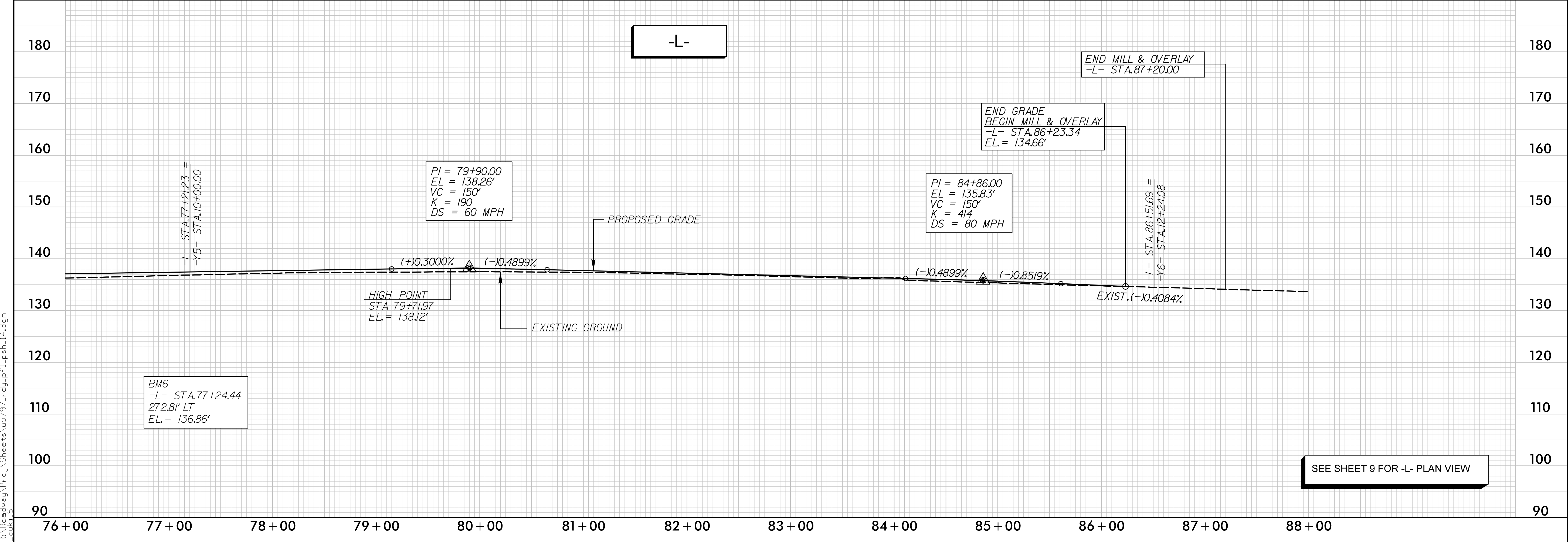


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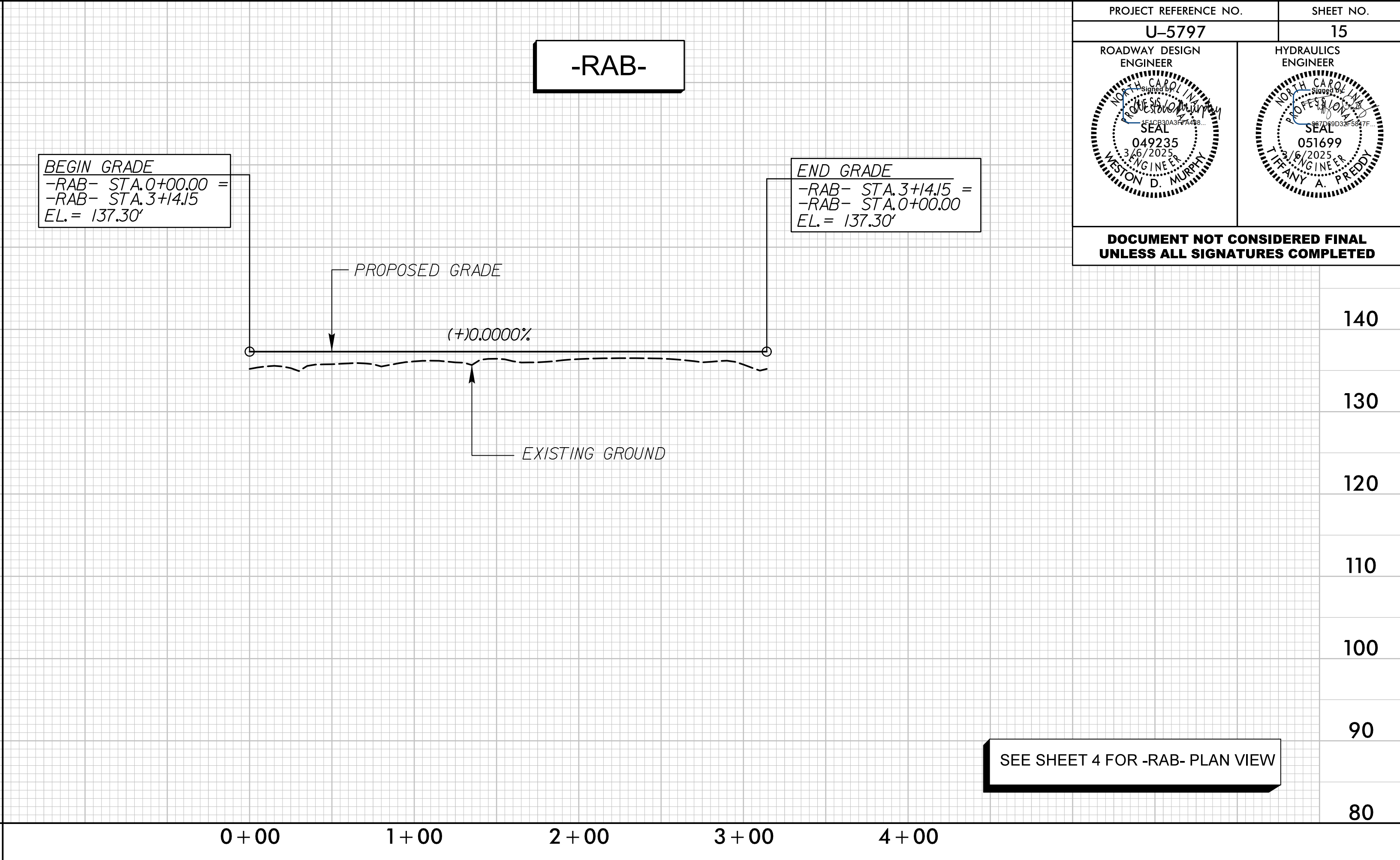
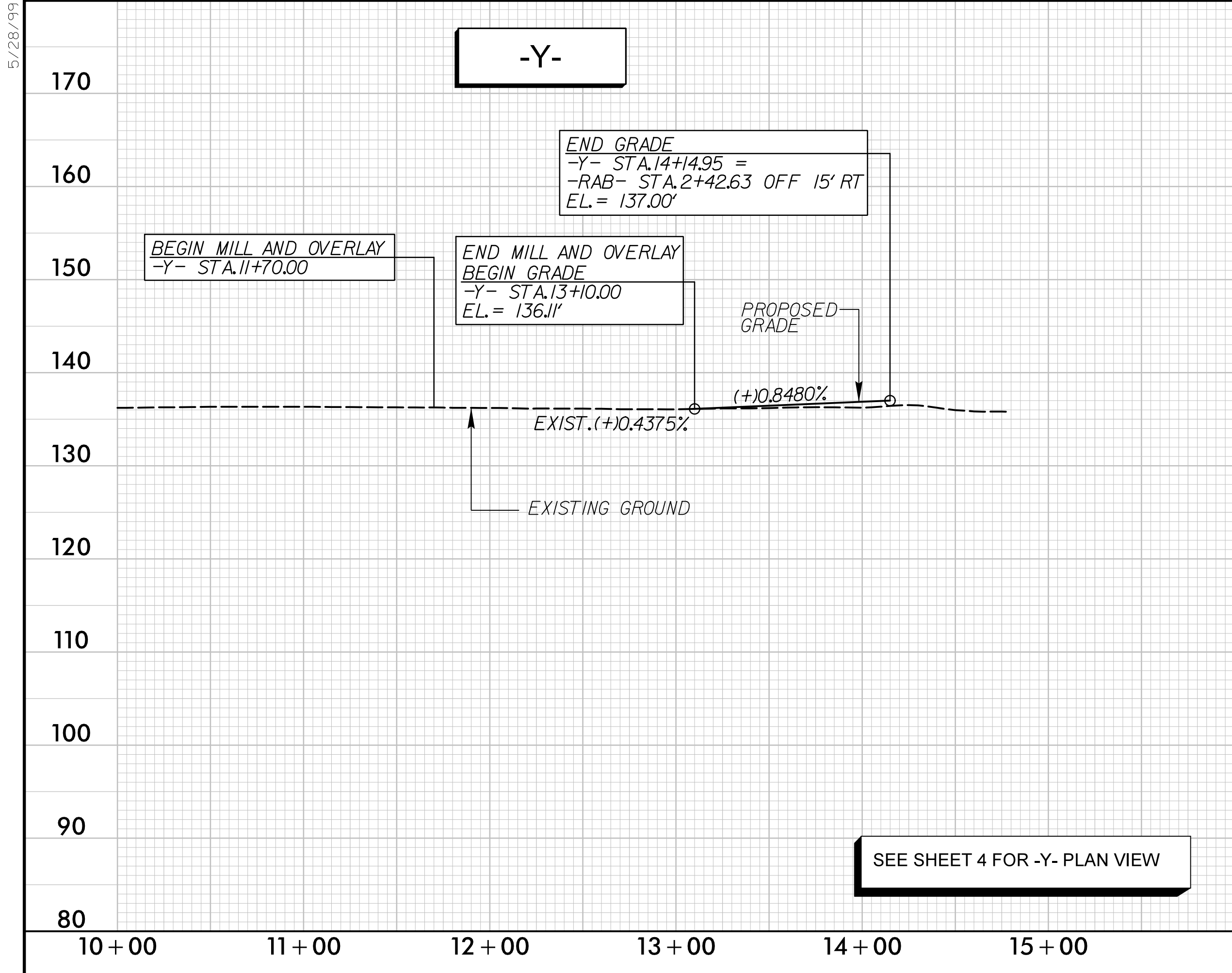


PROJECT REFERENCE NO.		SHEET NO.
U-5797		14
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		

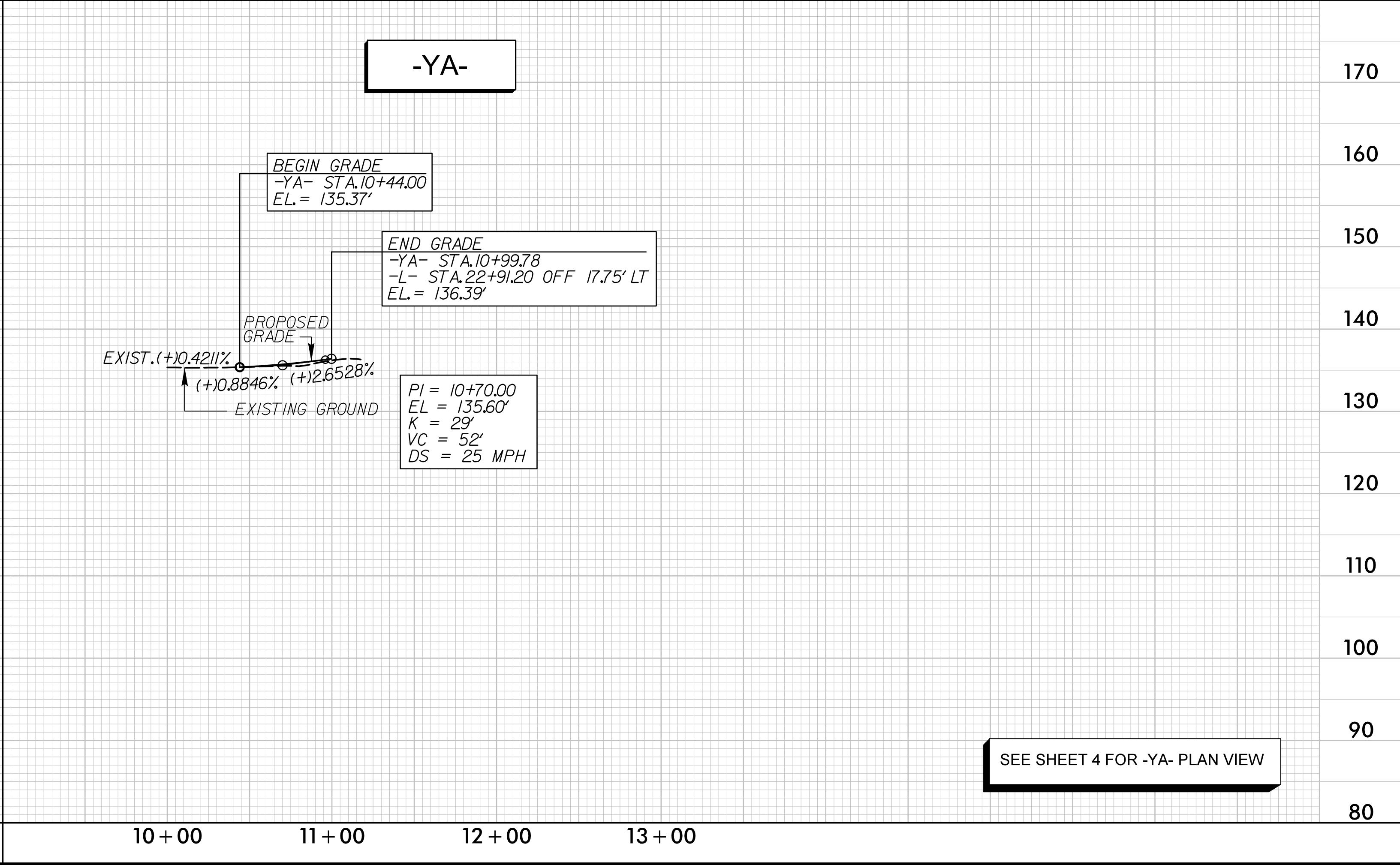
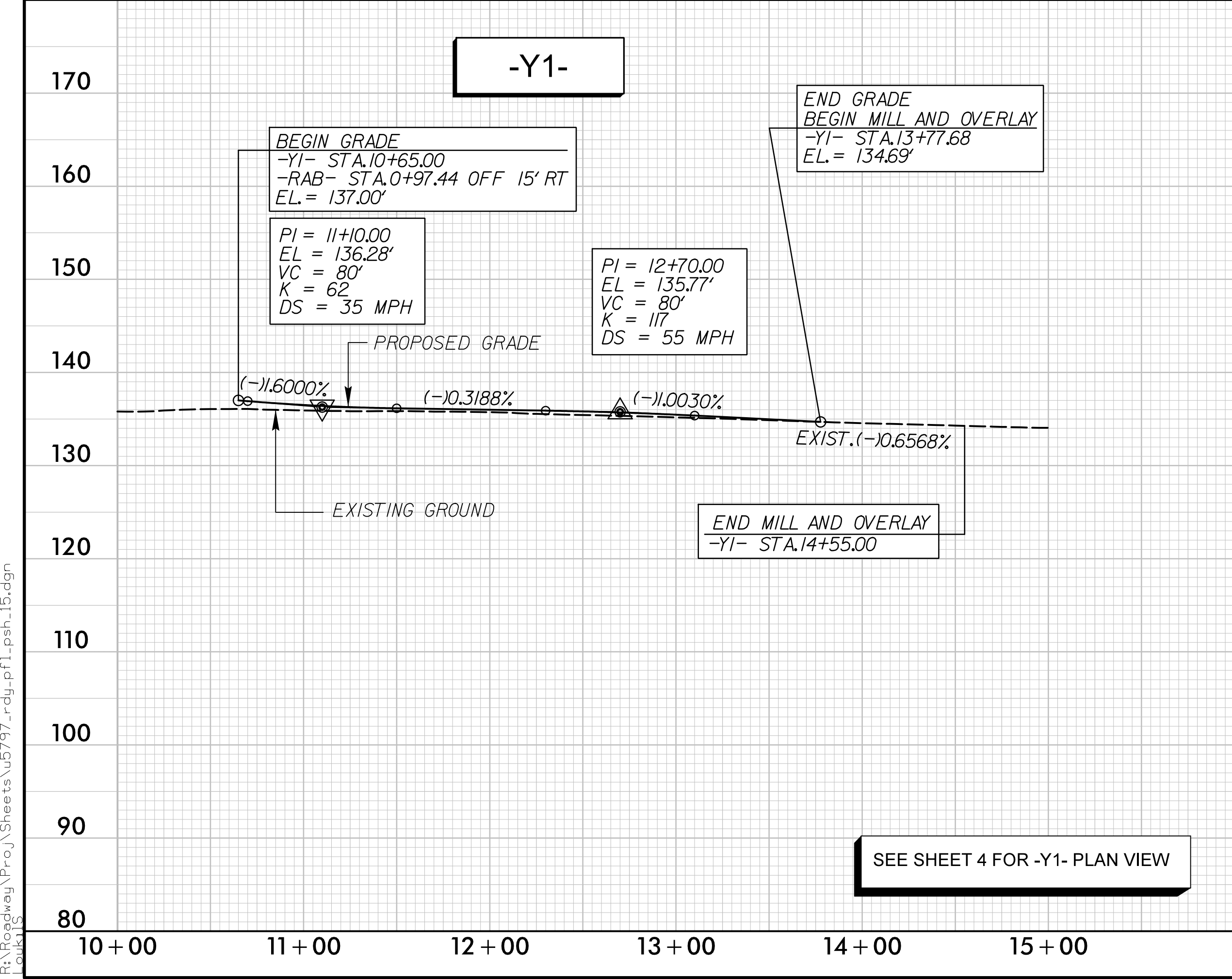
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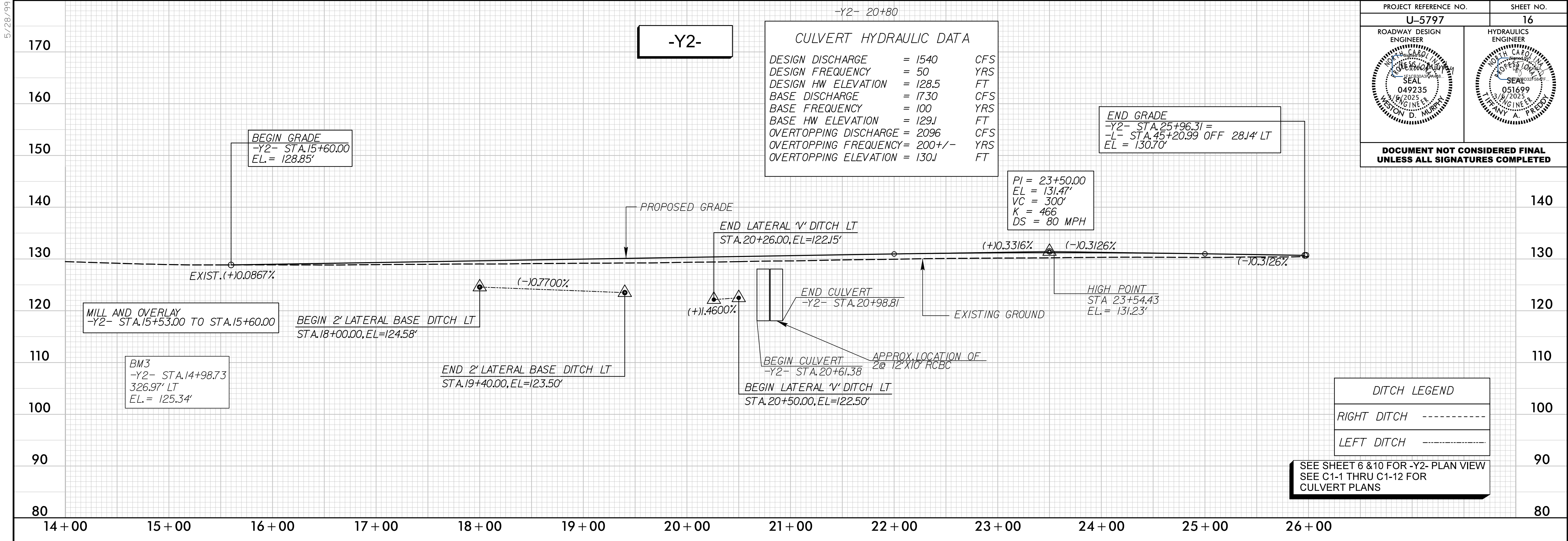
5/28/99



PROJECT REFERENCE NO.	SHEET NO.
U-5797	15
ROADWAY DESIGN ENGINEER SEAL 049235 3/6/2025 T. MURPHY	HYDRAULICS ENGINEER SEAL 051699 3/6/2025 T. MURPHY
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

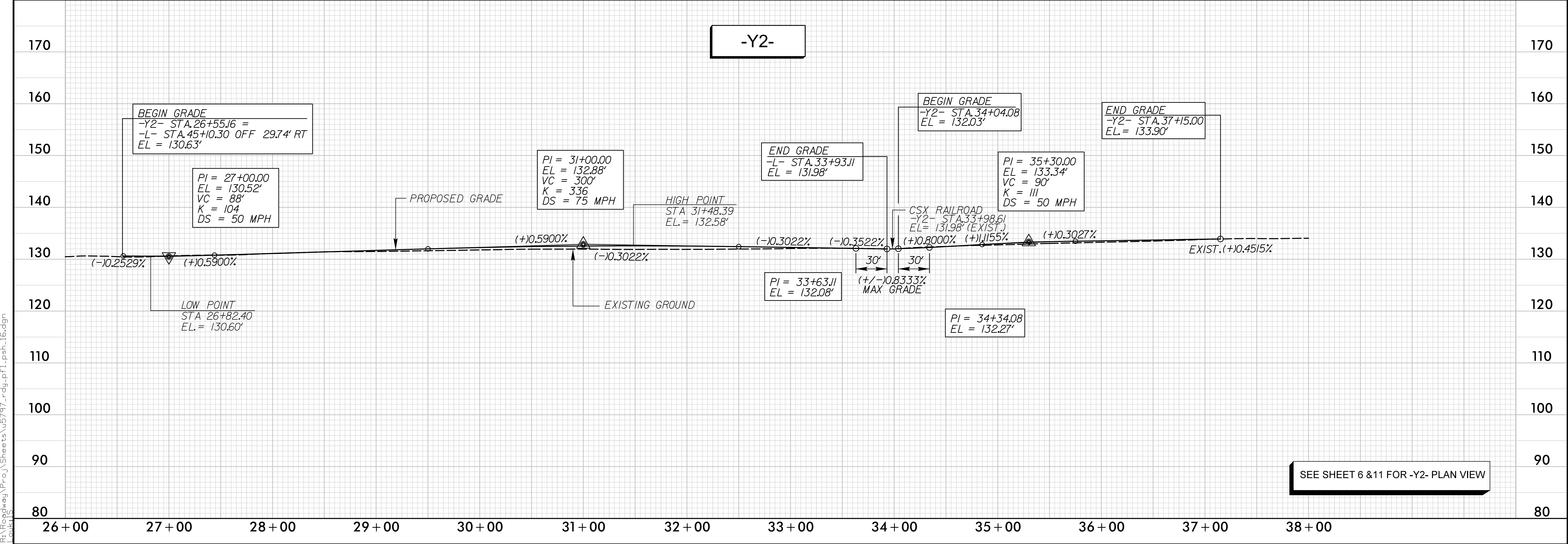


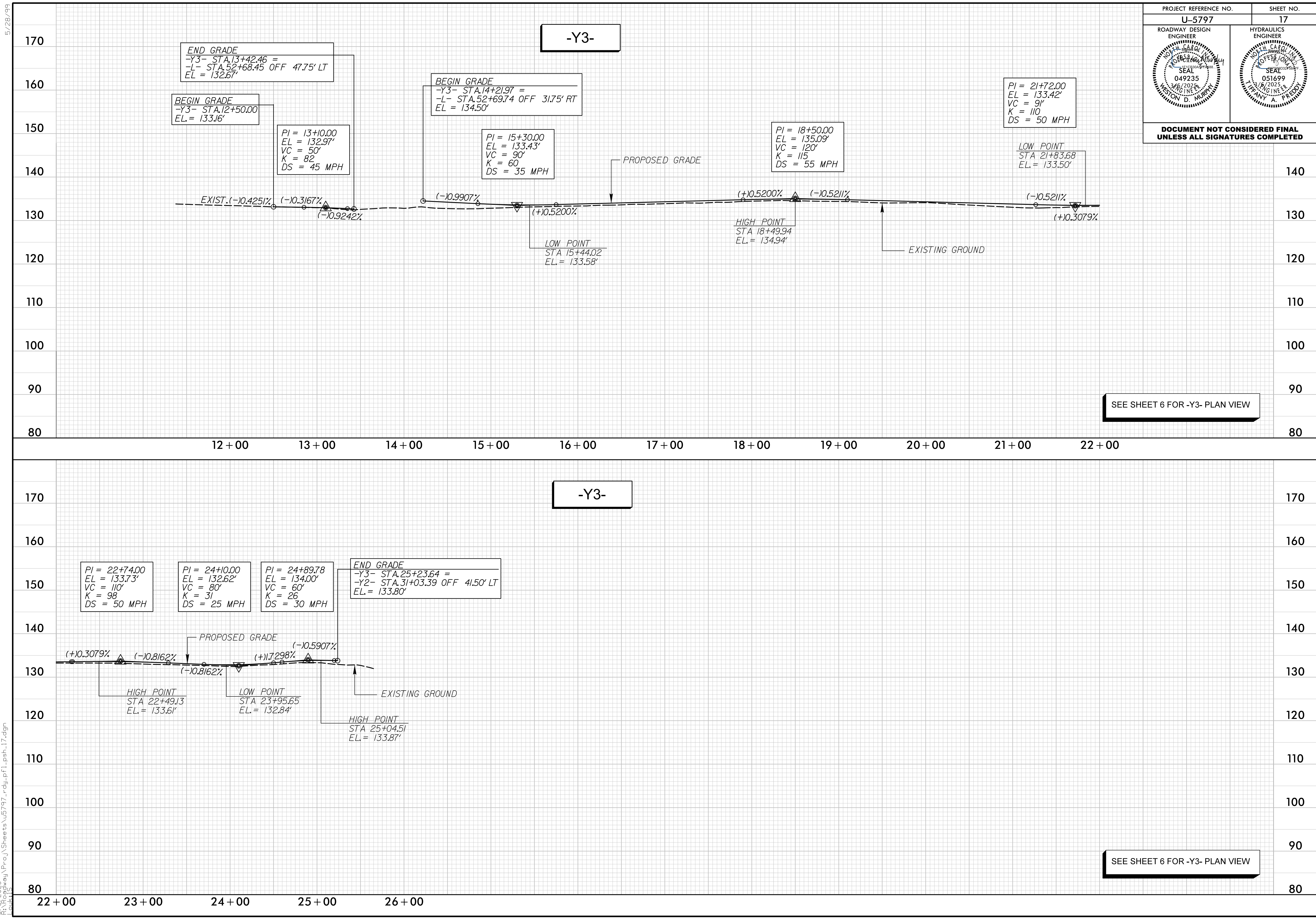
5/28/99



PROJECT REFERENCE NO.	SHEET NO.
U-5797	16
ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER
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3/6/2025
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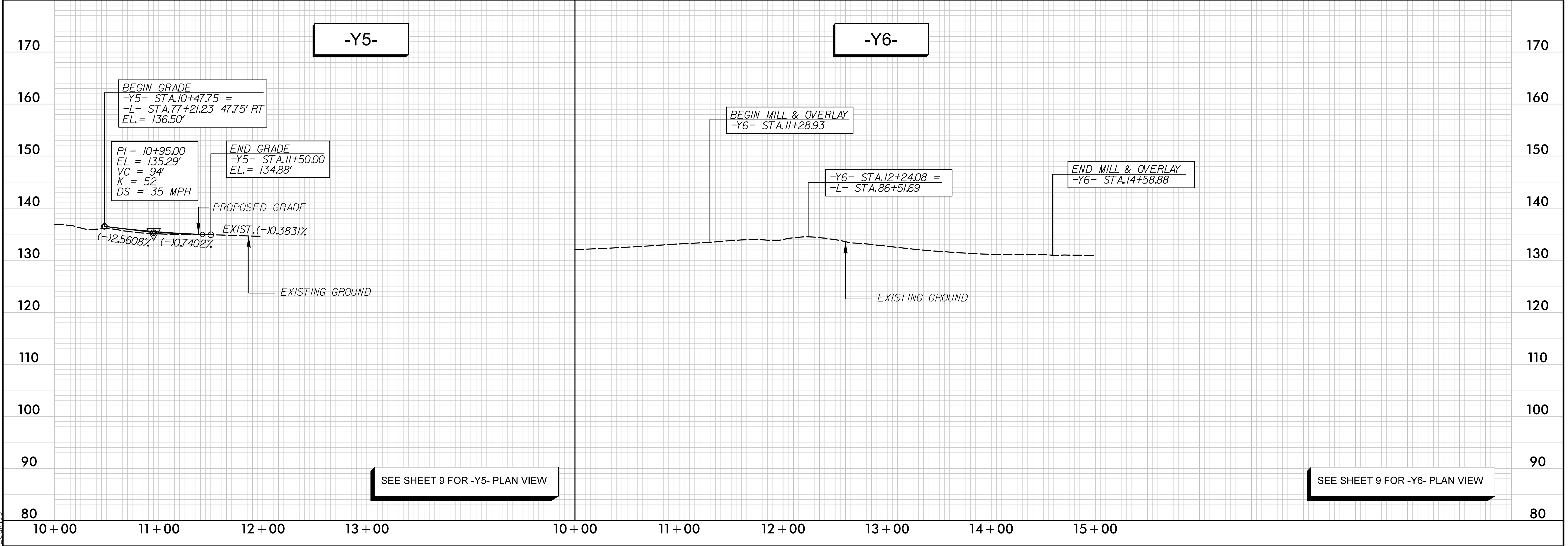
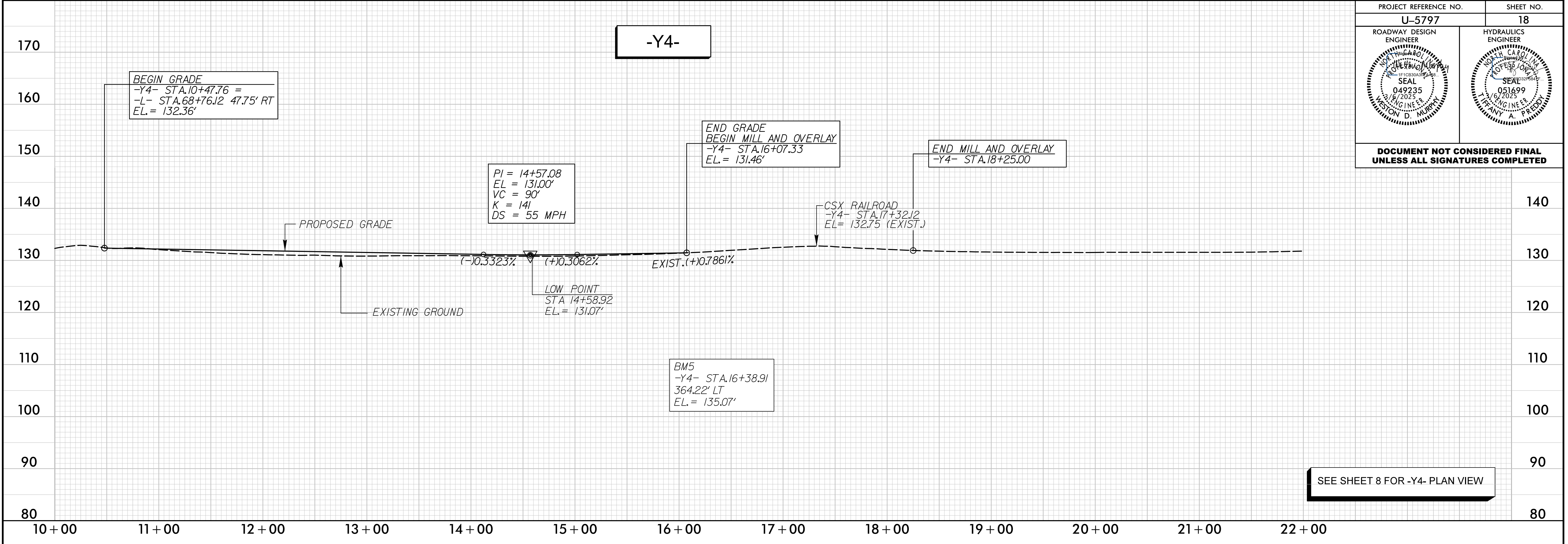
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U-5797		17	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

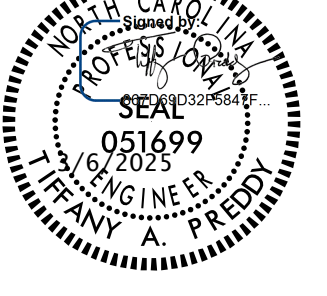
SEE SHEET 6 FOR -Y3- PLAN VIEW

SEE SHEET 6 FOR -Y3- PLAN VIEW

5/28/25

3/6/2025
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PROJECT REFERENCE NO.	SHEET NO.
U-5797	18
ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER 
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