

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48 INCHES & UNDER)

COMPUTED BY: L. HOWARD DATE: APRIL 11, 2025
COMPUTED BY: J. BARFIELD DATE: APRIL 11, 2025

(9-17-24)

PROJECT NO.	SHEET NO.
U-5906	3G-1

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

NOVEMBER 1, 2024 GEOTECHNICAL RECOMMENDATIONS FOR SUMMARY
OF AGGREGATE SUBGRADE/STABILIZATION

LINE	Station	Station	Aggregate	Aggregate	Shallow	Class IV Subgrade Stabilization TONS	Geotextile for Soil Stabilization SY	Geotextile for Subgrade Stabilization SY	Stabilizer Aggregate TONS	Class IV Aggregate Stabilization TONS
-Y1A-	23+00	26+50	ASU 1	8	0	200		450		
	CONTINGENCY		ASU 1	8	2100	4200		6500		
	CONTINGENCY		AST				200		250	
			TOTAL CY/TONS/SY:		2100	4400**	200	6950**	250	0

*ASU(1/2) = Aggregate Subgrade (Type 1 or 2)
*AST = Aggregate Stabilization
**Total tons of "Class IV Subgrade Stabilization" and total square yards of "Geotextile for Subgrade Stabilization" are only the estimated quantities for ASU(1/2)/AST and may only represent a portion of the subgrade stabilization and geotextile quantities shown in the Item Sheets of the Proposal.

RS&H 1520 SOUTH BOULEVARD, SUITE 200
CHARLOTTE, NC 28203
NC FIRM LICENSE No: F-0493

PARCEL INDEX SHEET

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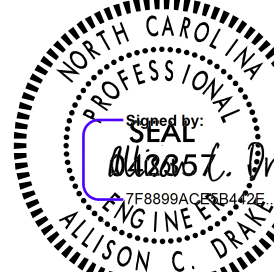
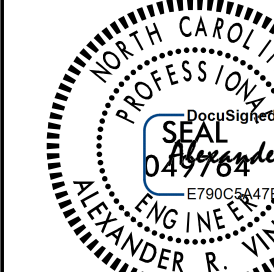
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PROJECT REFERENCE NO.	SHEET NO.
U-5906	3P-2
RW SHEET NO.	



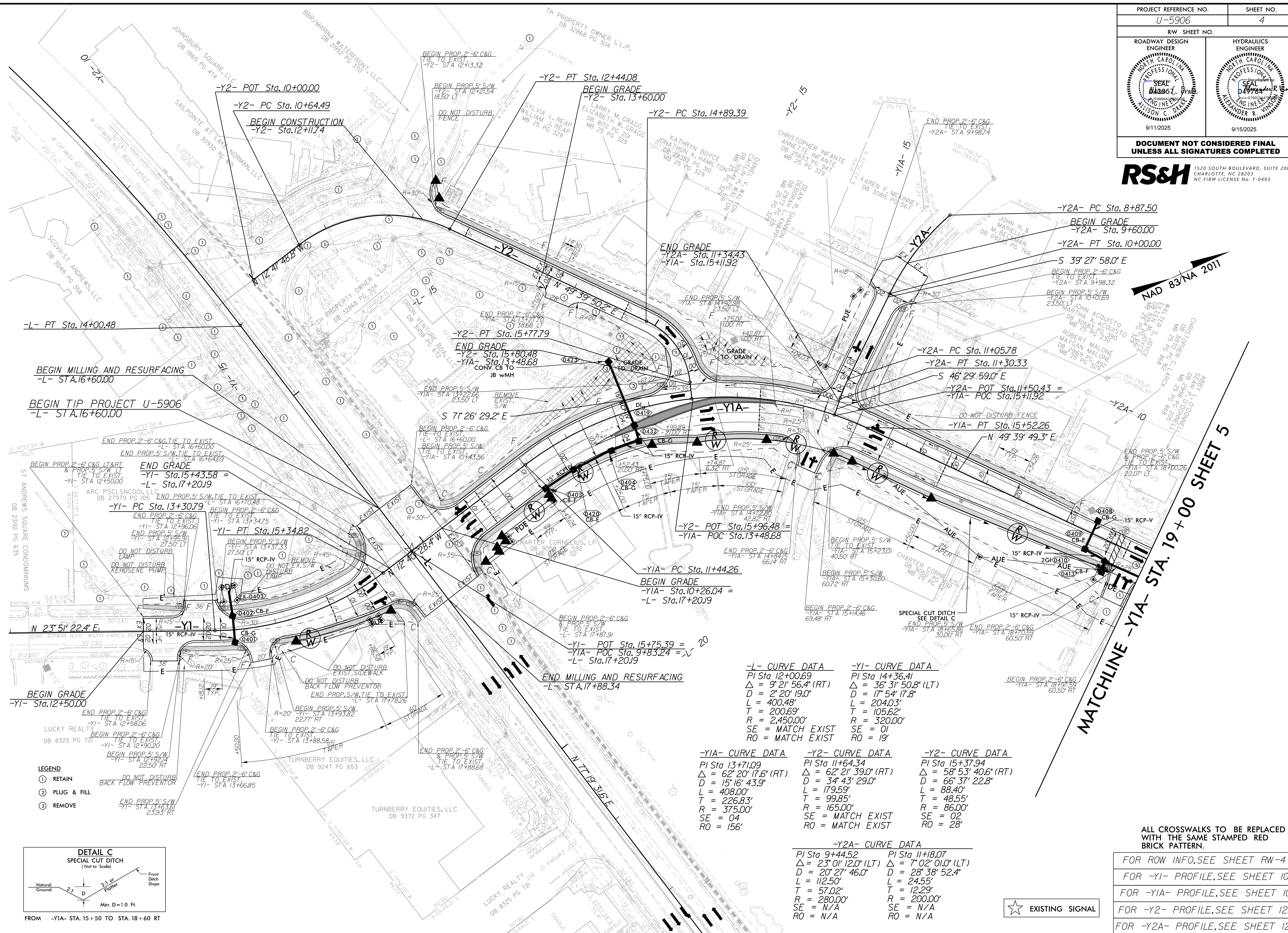
STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS											
RIGHT OF WAY AREA DATA											
PARCEL NO.	PROPERTY OWNERS' NAMES	TOTAL ACREAGE	AREA TAKEN (SF)	AREA REMAINING RT. (ACRE)	AREA REMAINING LT. (ACRE)	TEMPORARY CONSTRUCTION EASEMENT (SF)	PERMANENT DRAINAGE UTILITY EASEMENT (SF)	PERMANENT DRAINAGE EASEMENT (SF)	PERMANENT AERIAL UTILITY EASEMENT (SF)	PERMANENT UTILITY EASEMENT (SF)	PERMANENT ROW (SF)
1	TH PROPERTY OWNER 1, L.P.	0.19	1888.44	0.15			1888.44				
2	ORION VENTURE BOA, LLC	1.08	2131.40	1.03		136.94	341.58	1263.66			389.22
3	ARC PSCLSNCOOI, LLC	1.18	2014.43		1.13	1762.55		251.88			
4	LUCKY REALITY	5.65	1478.05	5.61		1478.05					
5	TURNBERRY EQUITIES, LLC	0.78	2952.65	0.71		2181.19				64.25	707.21
6	CHARTER CORNELIUS, LP	11.19	79947.08	9.35		43157.97	9669.65	1266.77	5390.81		20461.88
7	CHARTER CORNELIUS, LP	10.78	74960.15	9.06		41062.20	9669.65	813.47	5085.23		18329.60
8	TH PROPERTY OWNER 1, L.P.	31.90	118.08		31.90	150.67					118.08
9	LARRY M. GRAGG & ELIZABETH W. GRAGG	0.37	272.24		0.36	272.24					
10	KATHRYN BOYCE & JONATHON K. HAMILTON	0.21	577.86		0.20	577.86					
11	CHRISTOPHER INFANTE & ANNETTE INFANTE	0.21	803.19		0.19	168.67				634.53	
12	JOHN ACQUISTO & MARTHA A. ACQUISTO	0.21	1010.93		0.19	1010.93					
22	DDR SOUTHEAST SOUTHLAKE, LP	14.18	50230.47	13.03		15527.61	501.24	1671.41		4715.98	27814.23
28	NORTH STATE PARTNERS, LLC	0.52	242.00		0.51			242.00			
29	BASHKAP, LLC	1.36	6987.16	1.20		2515.65	4175.23	48.21			248.07
30	BASHKAP, LLC	0.63	4140.50	0.54			4001.98				138.52
31	JACKSON PROPERTIES OF LKN, LLC	1.68	20382.91	1.21		2142.31	6597.98		5556.88		6085.74
33	FW MOMENTUM, LLC	0.95	202.36		0.95	156.50					45.85
34	LAKECREST CONDOMINIUMS	11.55	2778.83		11.48	1242.67					1536.16
35	OTIS WALLY & WYNEE G. WALLY	1.92	32889.95		1.16	32.93					32857.02
36	CYNTHIA ROBINETTE	0.53	337.71		0.52	331.78					5.93
37	TODD J. COMBS & KYLE P. COMBS	0.14	716.64	0.12		716.64					
38	MARVIN C. TODD & MARJORIE K. TODD	0.12	965.09	0.09		753.96			211.13		
39	ART SABATES PROPERTIES, LLC	0.18	1829.04	0.14					1829.04		
60	S&E	0.18	1555.48	0.15					1555.48		
40	JAD DEVELOPMENT, LLC	0.63	4961.88		0.52	1780.18			3082.87		98.83
41	CHARLES R. WALLY & JUDY H. WALLY	0.69	327.76		0.68	327.76					
42	SHOPS ON THE GREEN, LLC	6.24	3023.67	6.17		2246.09					777.58
43	ISTIEA ISLAND, LLC	0.55	5583.30	0.43		278.48			4479.48		825.35
44	SAIONE, LLC	1.14	522.24	1.13		172.88					349.36
45	20310 CHARTWELL CENTER DRIVE, LLC	11.46	15135.13	11.11		626.25				8132.82	6376.07
46	GBA LIVERPOOL HOLDINGS, LLC	1.28	418.81		1.27	418.81					
47	JAY THAMNAI, INC	1.92	10066.00		1.69	7170.41				258.87	2636.72
48	MAC'S LKN, LLC	1.19	7403.80		1.02	2813.01				2319.39	2271.41
49	UNITED STATES POSTAL SERVICE	1.90	11917.44	1.63		683.99		1348.58		5337.72	4547.15
50	DATT, LLC	1.08	760.76		1.06	760.76					
51	SHIVA HOSPITALITY, LLC	1.89	9464.53	1.67		3883.58				479.09	5101.86
52	SOUTH CENTRAL OIL CO, INC	5.86	5170.34	5.74		5163.04					7.30
53	FIRST CITIZENS BANK & TRUST COMPANY	0.76	1001.99		0.74	1001.99					
54	BB&T	1.09	11152.18	0.83		3803.63				2311.12	5037.43
55	BRANFUL, LLC	1.05	9375.17	0.83		3346.13		1605.91			4423.13
56	GERALDINE U. NORMAN	0.29	8723.74	0.09				151.16	7923.44		649.14
57	CARS MTI-5, LP	5.83	27877.55	5.19		19103.58		1619.81	3293.14		3861.02
58	JACKSON PROPERTIES OF LKN, LLC	1.28	2351.64		1.23	1905.80	445.84				
59	KAVILODGING, LLC	2.18	337.14	2.17		337.14					
61	KISMET, LLC	1.11	1548.92		1.08	1503.60				45.32	
62	MCDONALDS CORPORATION	1.10	1279.13		1.07	482.51		796.62			

PROJECT REFERENCE NO.	SHEET NO.
<i>U-5906</i>	<i>4</i>
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER 
9/11/2025	9/15/2025

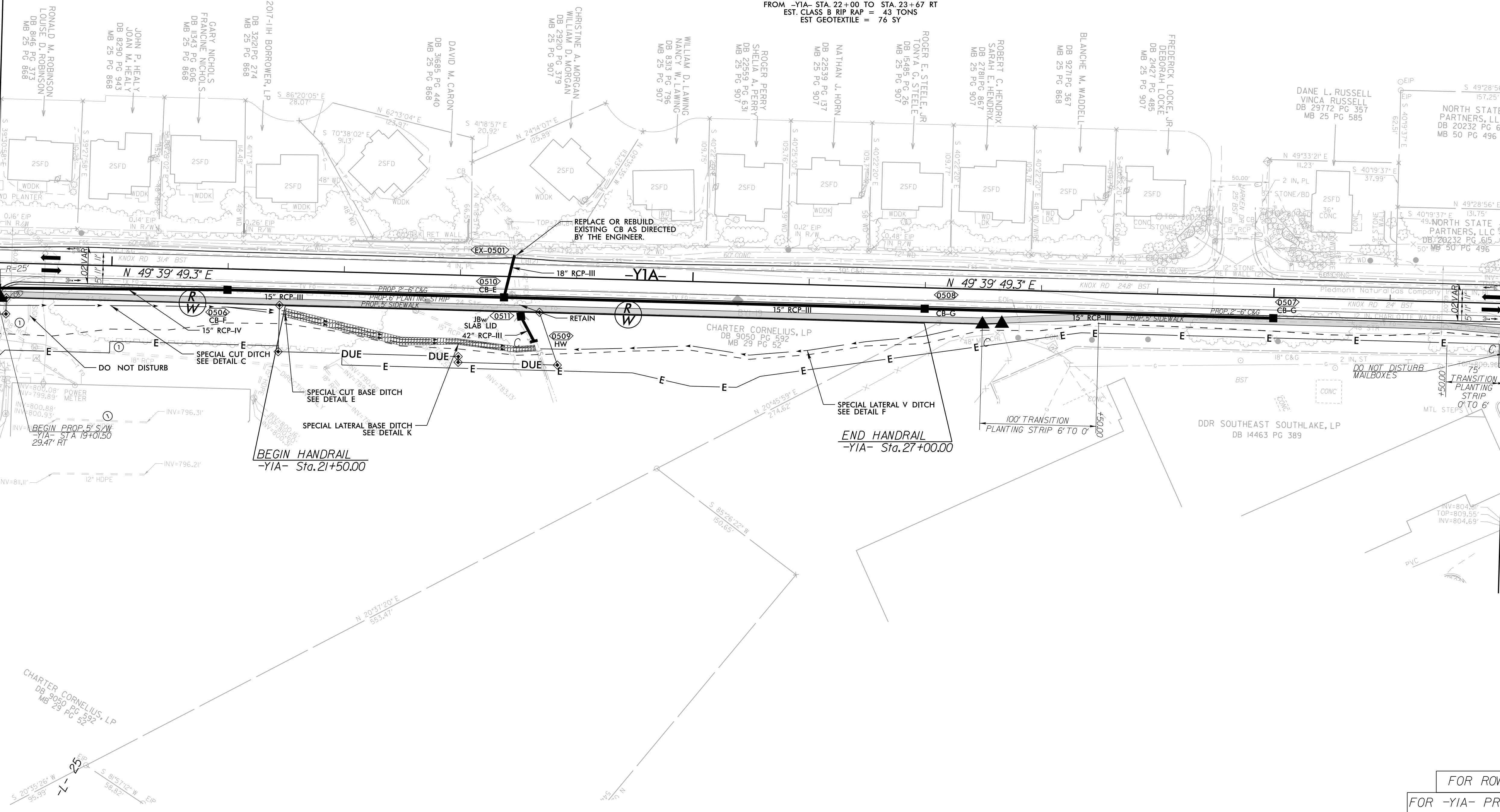
**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

RS&H

1520 SOUTH BOULEVARD, SUITE 201
CHARLOTTE, NC 28203
NC FIRM LICENSE No: F-0493

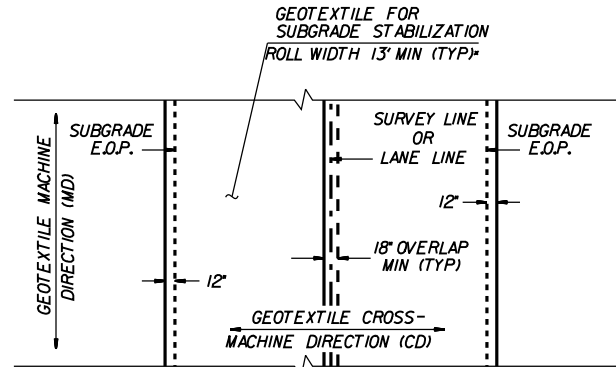
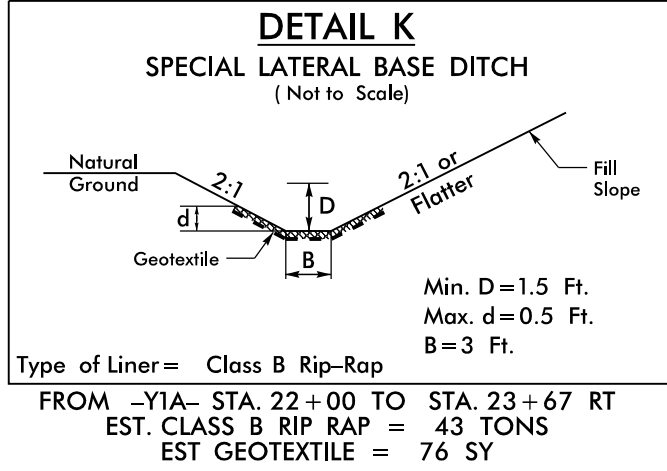
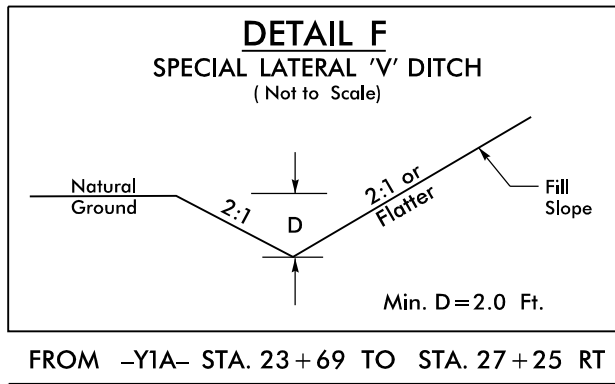
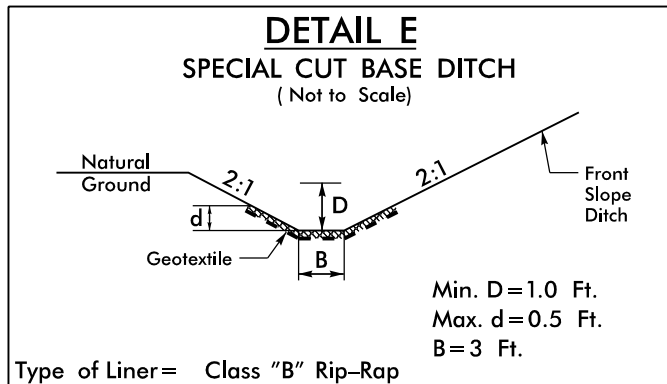
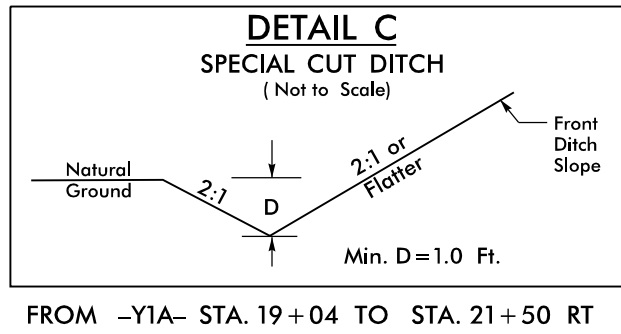


MATCHLINE -Y1A- STA. 19+00 SHEET 4



-Y1A- 20

- LEGEND
- ① RETAIN
 - ② PLUG & FILL
 - ③ REMOVE



GEOTEXTILE FOR SUBGRADE STABILIZATION PLACEMENT
(PLAN VIEW)

(100% COVERAGE REQUIRED)

*INSTALL GEOTEXTILE FOR SUBGRADE STABILIZATION WITH MINIMUM ROLL WIDTH UNDER ROADWAY EDGES AND SHOULDERS ADJACENT TO FILL SLOPES

-Y1A- 30

RS&H 1520 SOUTH BOULEVARD, SUITE 200
CHARLOTTE, NC 28203
NC FIRM LICENSE No: F-0493

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

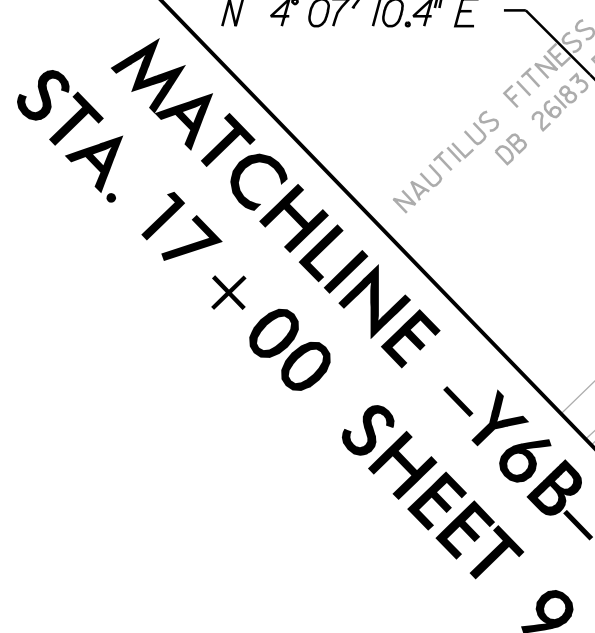
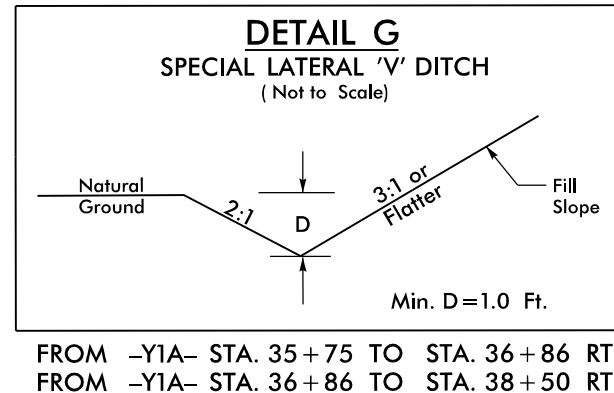
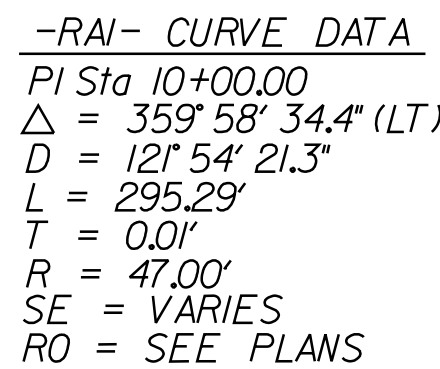
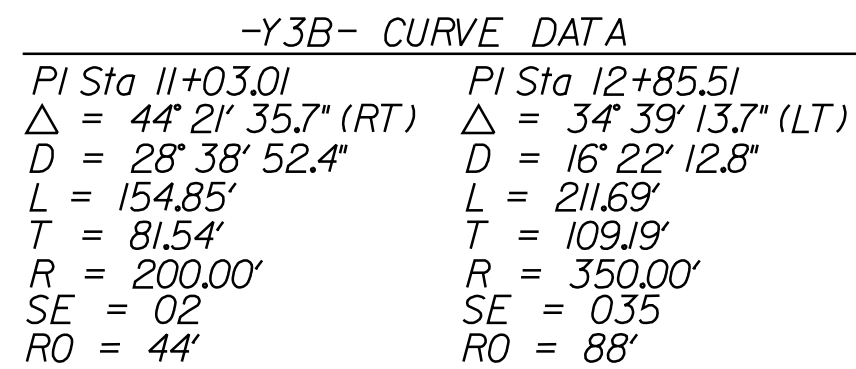
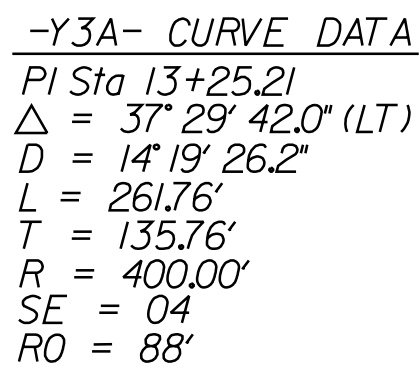
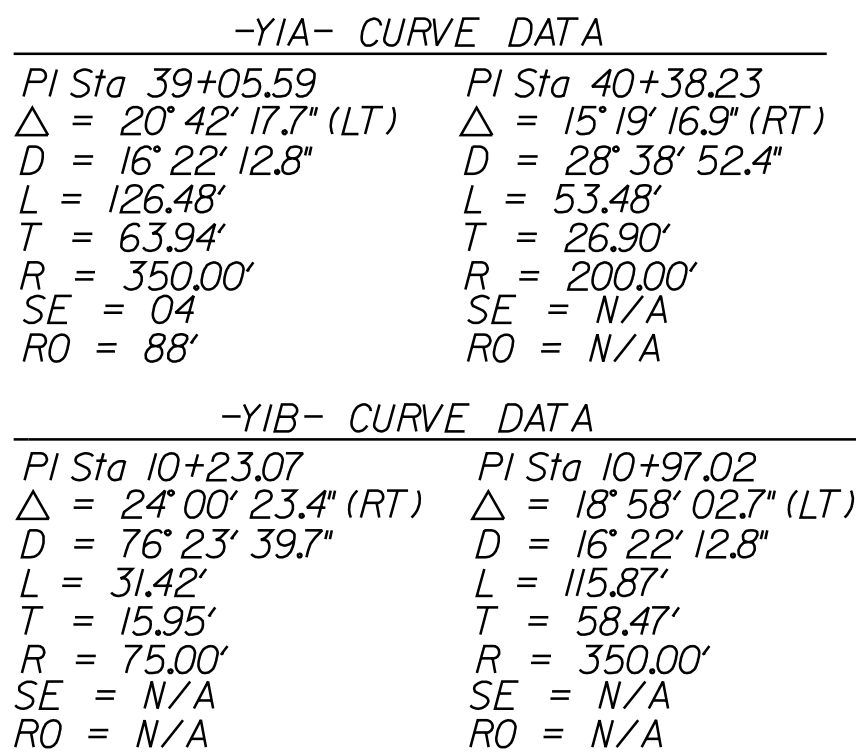
9/11/2025 9/12/2025

PROJECT REFERENCE NO.		SHEET NO.	
U-5906		5	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		NORTH CAROLINA PROFESSIONAL SEAL Allison C. Drake 049764 ENGINEER ALISON C. DRAKE	

MATCHLINE -Y1A- STA. 32+00 SHEET 6

FOR ROW INFO, SEE SHEET RW-5
FOR -Y1A- PROFILE, SEE SHEETS 10 & 11

RS&H 1520 SOUTH BOULEVARD, SUITE 200
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**** NOTE: 1.5" MILL AND 1.5" RESURFACE TORRENCE CHAPEL ROAD FROM -Y6B- STA. 14+70.00 TO -Y6B- STA. 18+24.21 & -Y3A- STA. 10+00.00 TO -Y3A- STA. 11+80.00**

LEGEND

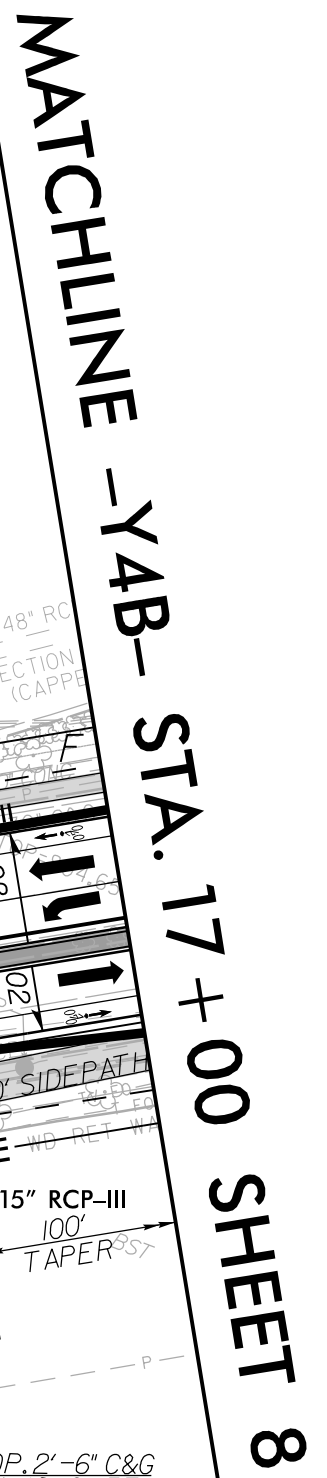
- ① RETAIN
- ② PLUG &
- ③ REMOVE

	FOR ROW INFO,SEE SHEET RW-6
	FOR -Y1A- PROFILE,SEE SHEET 11
	FOR -Y1B- PROFILE,SEE SHEET 11
	FOR -Y3A- PROFILE,SEE SHEET 12
	FOR -Y3B- PROFILE,SEE SHEET 12
	FOR -RAI- PROFILE,SEE SHEET 15
✓	FOR -DRIVE5- PROFILE,SEE SHEET 15
✓	FOR -RAI-,SEE DETAIL SHEET 2B-1
✓	TEMP SIDEWALK,SEE DETAIL SHEET 2B-9
✓	ALL ENVELOPE,SEE DETAIL SHEET 2B-10

-RA3- CURVE DATA
 PI Sta 10+00.00
 $\Delta = 359^{\circ} 58' 34.4''$ (LT)
 $D = 121^{\circ} 54' 21.3''$
 $L = 295.29'$
 $T = 0.01'$
 $R = 47.00'$
 SE = VARIES
 RO = SEE PLANS

**RS&H**

1520 SOUTH BOULEVARD, SUITE 200
CHARLOTTE, NC 28203
NC FIRM LICENSE No: F-0493



FOR ROW INFO,SEE SHEET RW-7
FOR -Y4A- PROFILE,SEE SHEET 12
FOR -Y4B- PROFILE,SEE SHEET 13
FOR -Y5- PROFILE,SEE SHEET 13
FOR -DRIVEI- PROFILE,SEE SHEET 14
FOR -RA3- PROFILE,SEE SHEET 15
FOR -RA3-,SEE DETAIL SHEET 2B-3

- LEGEND**
- ① RETAIN
 - ② PLUG & FILL
 - ③ REMOVE

CONTRACTOR TO GRADE INTERSECTION OF
DRIVEWAYS (-Y4B- STA. 14+19 +/- LT &
RT) AND OUTSIDE EDGE OF PAVEMENT OF
-Y4B- (LT & RT) TO ENSURE POSITIVE
DRAINAGE TO STR. 0704 AND STR. 0705.

BEGIN PROP. 2'-6" C&G
-Y4B- STA 16+24.53
49.74' RT
BEGIN PROP. 10' MUP
-Y4B- STA 16+24.37
42.00' RT
SOUTH CENTRAL OIL CO, INC
DB 10996 PG 154

RS&H 1520 SOUTH BOULEVARD, SUITE 200
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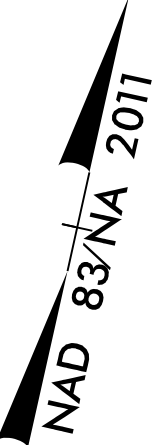
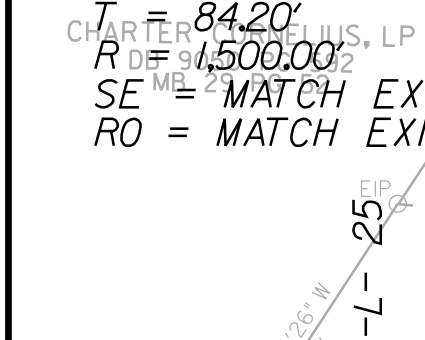
DETAIL I
SPECIAL LATERAL BASE DITCH
(Not to Scale)

Natural Ground 3:1 D 3:1 Fill Slope

B

Min. D = 1.5 Ft.
B = 2.0 Ft.

FROM -L- STA. 36+00 TO STA. 37+50 RT



★ EXISTING SIGNAL

-Y6A- CURVE DATA
PI Sta 14+95.04
Δ = 44° 49' 53.0" (RT)
D = 7° 35' 19.8"
L = 590.75'
T = 311.43'
R = 755.00'
SE = 04
RO = 84'

-Y6B- CURVE DATA
PI Sta 10+79.68
Δ = 12° 02' 56.7" (RT)
D = 7° 35' 19.8"
L = 158.77'
T = 79.68'
R = 755.00'
SE = N/C
RO = N/A

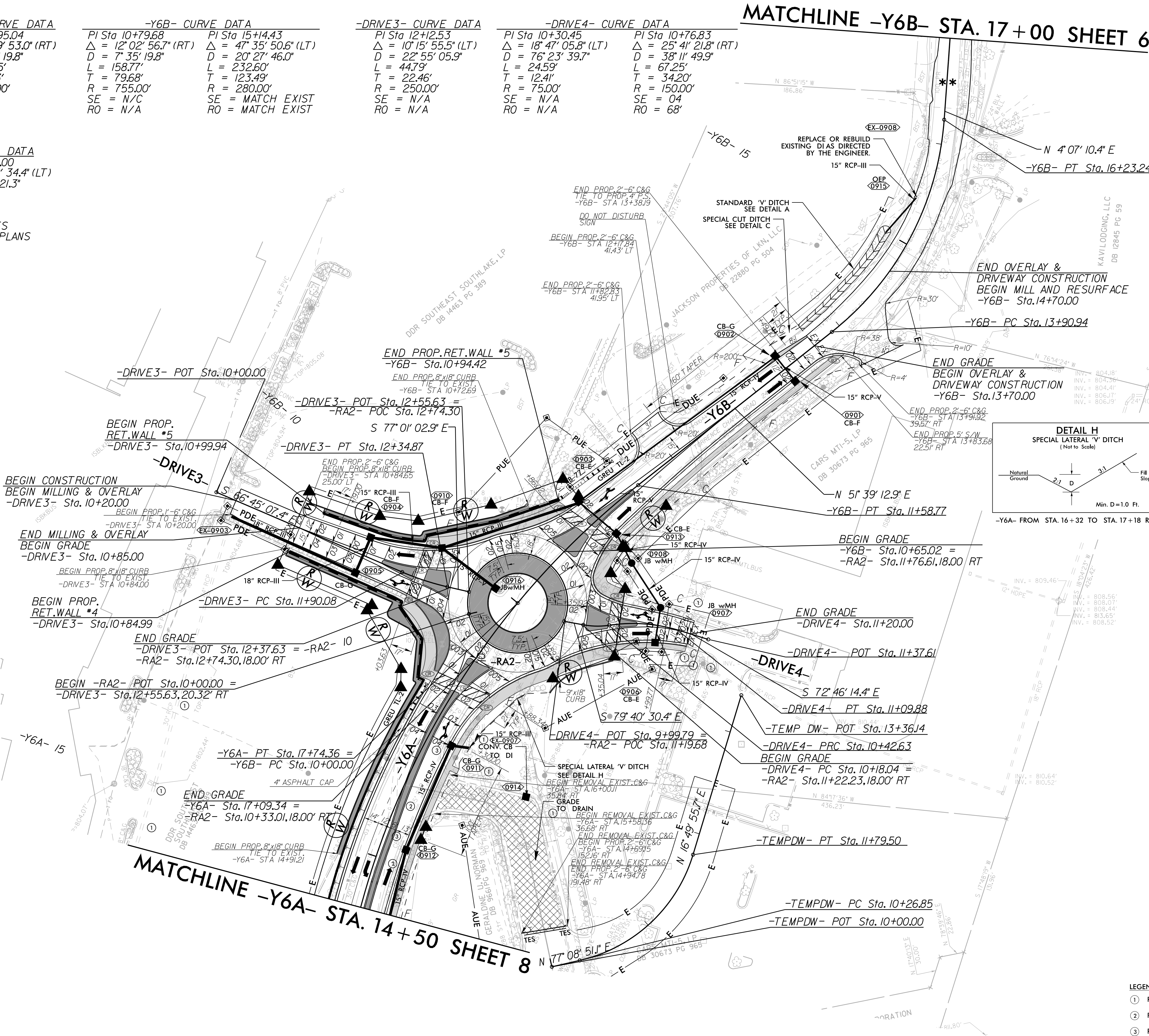
PI Sta 15+14.43
Δ = 47° 35' 50.6" (LT)
D = 20° 27' 46.0"
L = 232.60'
T = 123.49'
R = 280.00'
SE = MATCH EXIST
RO = MATCH EXIST

-DRIVE3- CURVE DATA
PI Sta 12+12.53
Δ = 10° 15' 55.5" (LT)
D = 22° 55' 05.9"
L = 44.79'
T = 22.46'
R = 75.00'
SE = N/A
RO = N/A

-DRIVE4- CURVE DATA
PI Sta 10+30.45
Δ = 18° 47' 05.8" (LT)
D = 76° 23' 39.7"
L = 24.59'
T = 12.41'
R = 75.00'
SE = N/A
RO = N/A

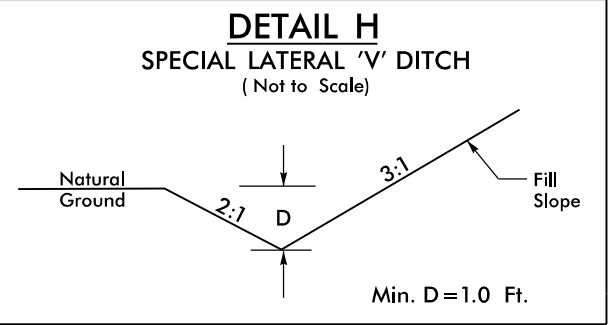
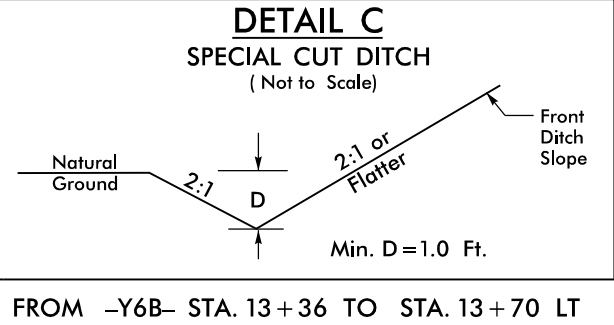
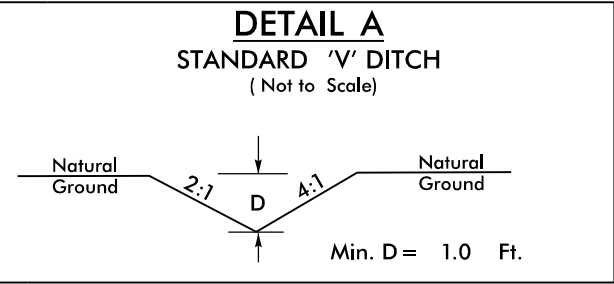
PI Sta 10+76.83
Δ = 25° 41' 21.8" (RT)
D = 38° 11' 49.9"
L = 67.25'
T = 34.20'
R = 150.00'
SE = 04
RO = 68'

-RA2- CURVE DATA
PI Sta 10+00.00
Δ = 359° 58' 34.4" (LT)
D = 121° 54' 21.3"
L = 295.29'
T = 0.01'
R = 47.00'
SE = VARIES
RO = SEE PLANS



PROJECT REFERENCE NO. U-5906		SHEET NO. 9
RW SHEET NO.		HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	SEAL NORTH CAROLINA PROFESSIONAL SEAL ALISON C. DRIE 9/11/2025	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		SEAL NORTH CAROLINA PROFESSIONAL SEAL ALEXANDER R. VIANO 9/15/2025

RS&H 1520 SOUTH BOULEVARD, SUITE 200
CHARLOTTE, NC 28203
NC FIRM LICENSE NO: F-0493



- LEGEND
- ① RETAIN
 - ② PLUG & FILL
 - ③ REMOVE

** NOTE: 1.5" MILL AND 1.5" RESURFACE TORRENCE CHAPEL
ROAD FROM -Y6B- STA. 14+70.00 TO -Y6B- STA. 18+24.21

FOR ROW INFO, SEE SHEET RW-9

FOR -Y6A- PROFILE, SEE SHEET 13

FOR -Y6B- PROFILE, SEE SHEET 14

FOR -DRIVE3- PROFILE, SEE SHEET 14

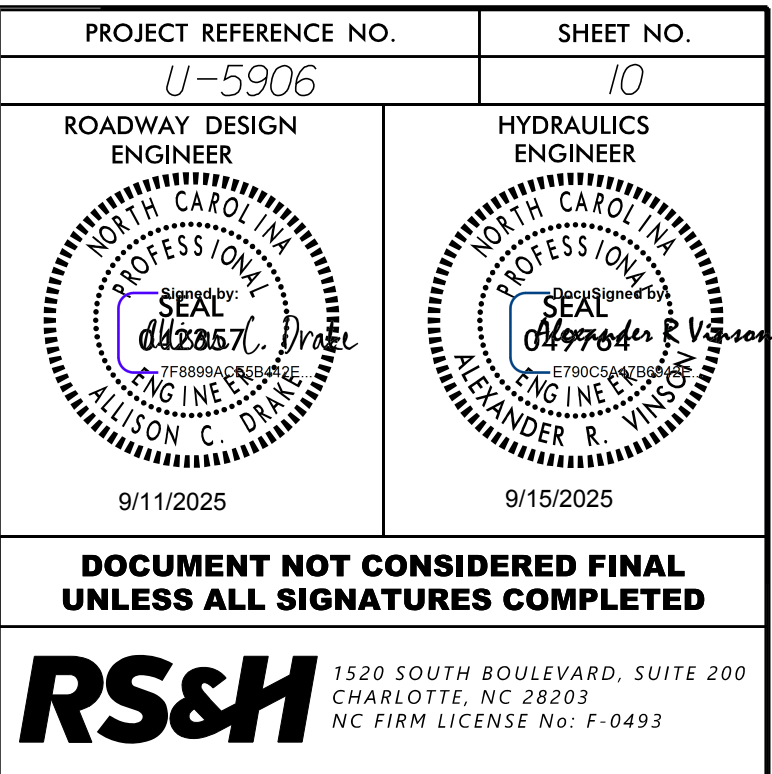
FOR -DRIVE4- PROFILE, SEE SHEET 14

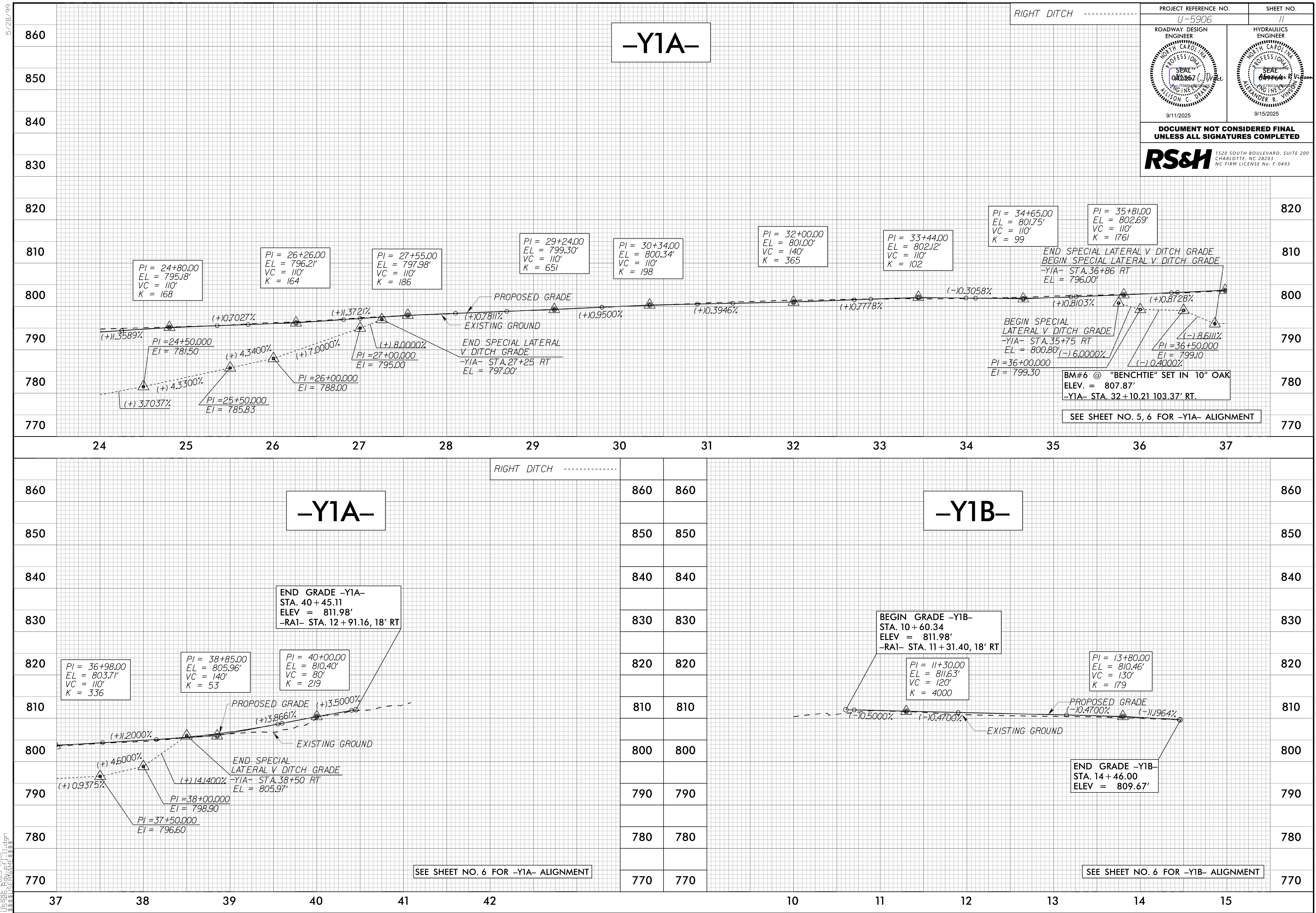
FOR -RA2- PROFILE, SEE SHEET 15

FOR -RA2-, SEE DETAIL SHEET 2B-2

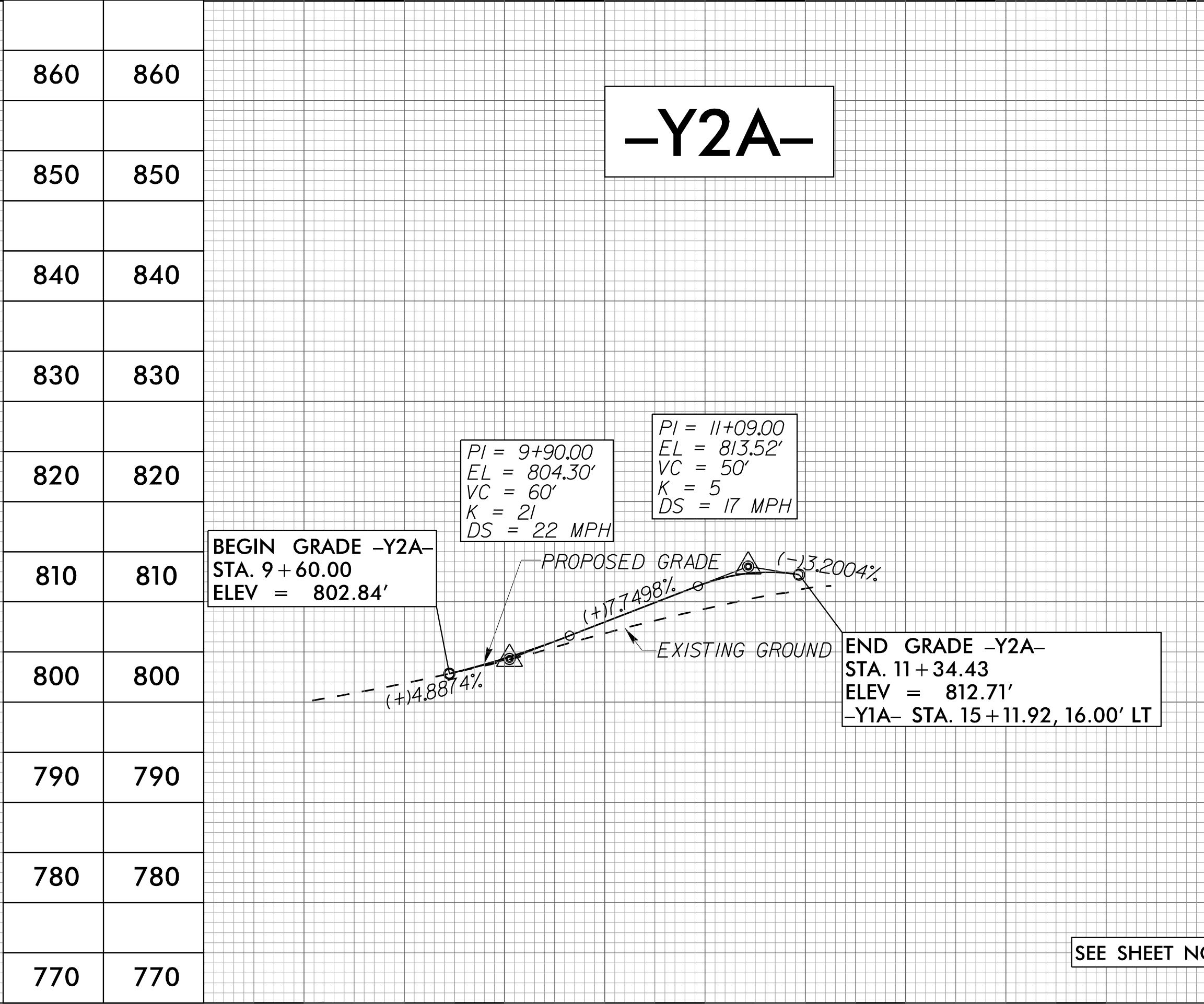
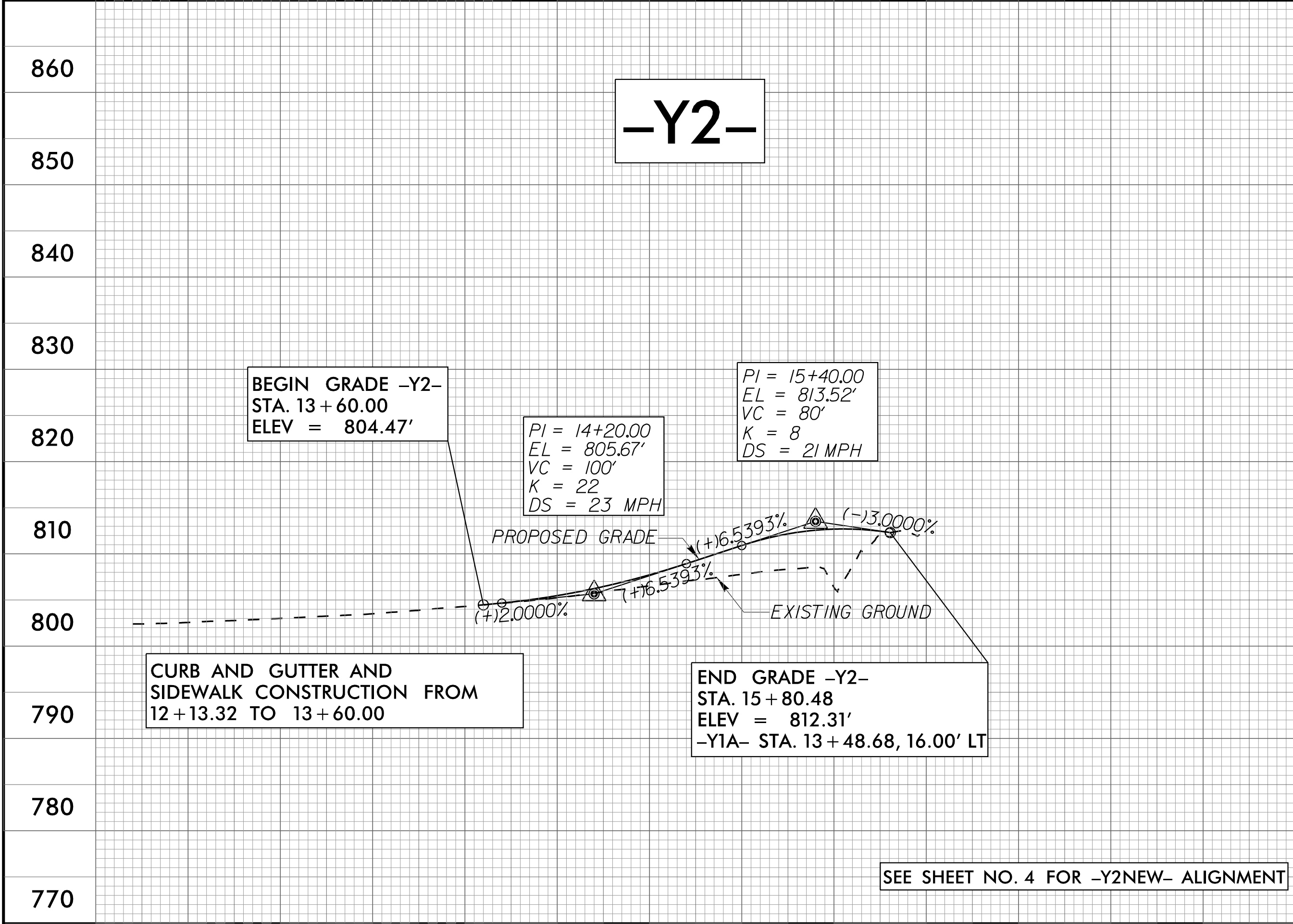
FOR -TEMPDW-, SEE DETAIL SHEET 2B-13

NAD 83/NA 2011



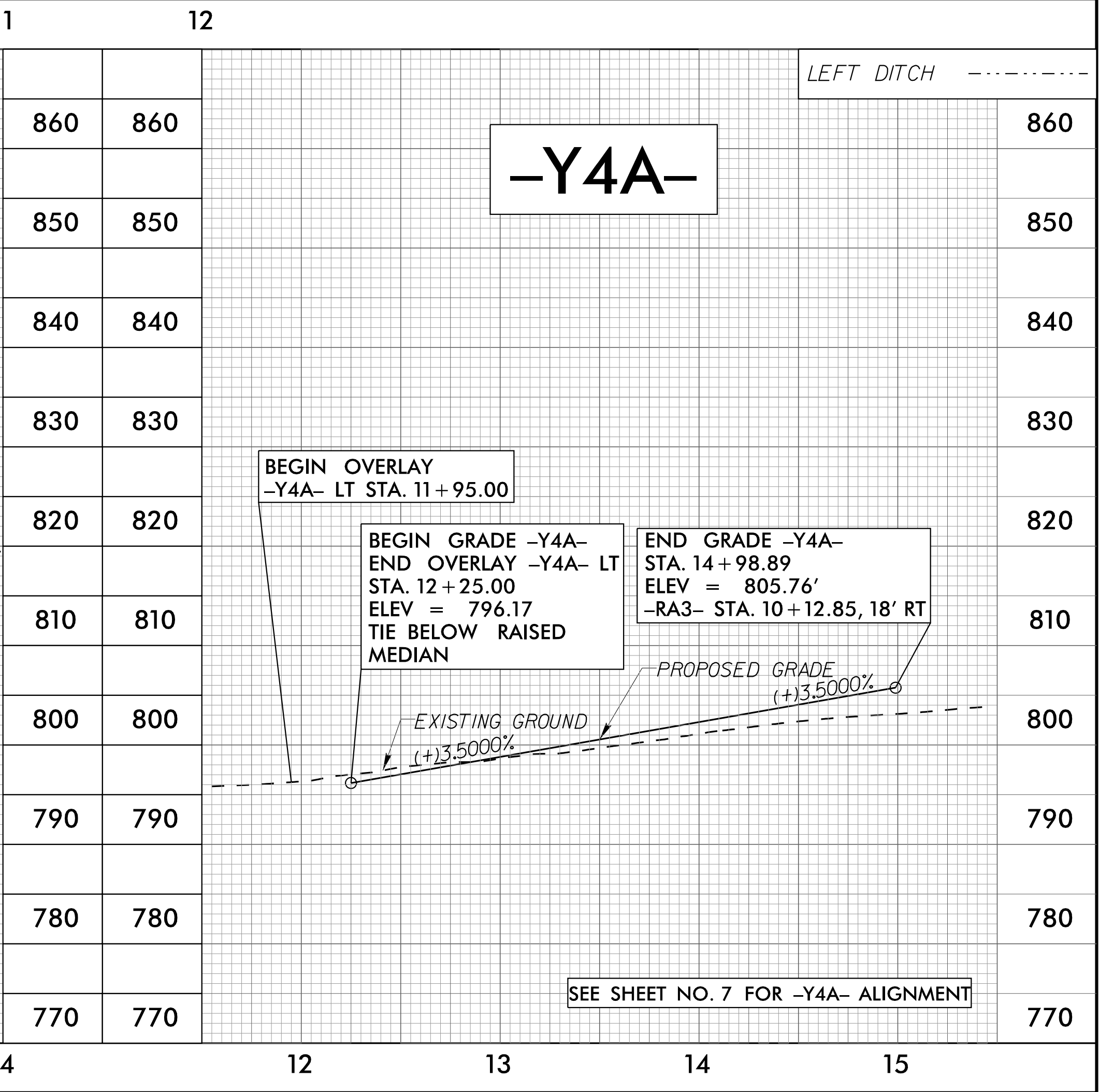
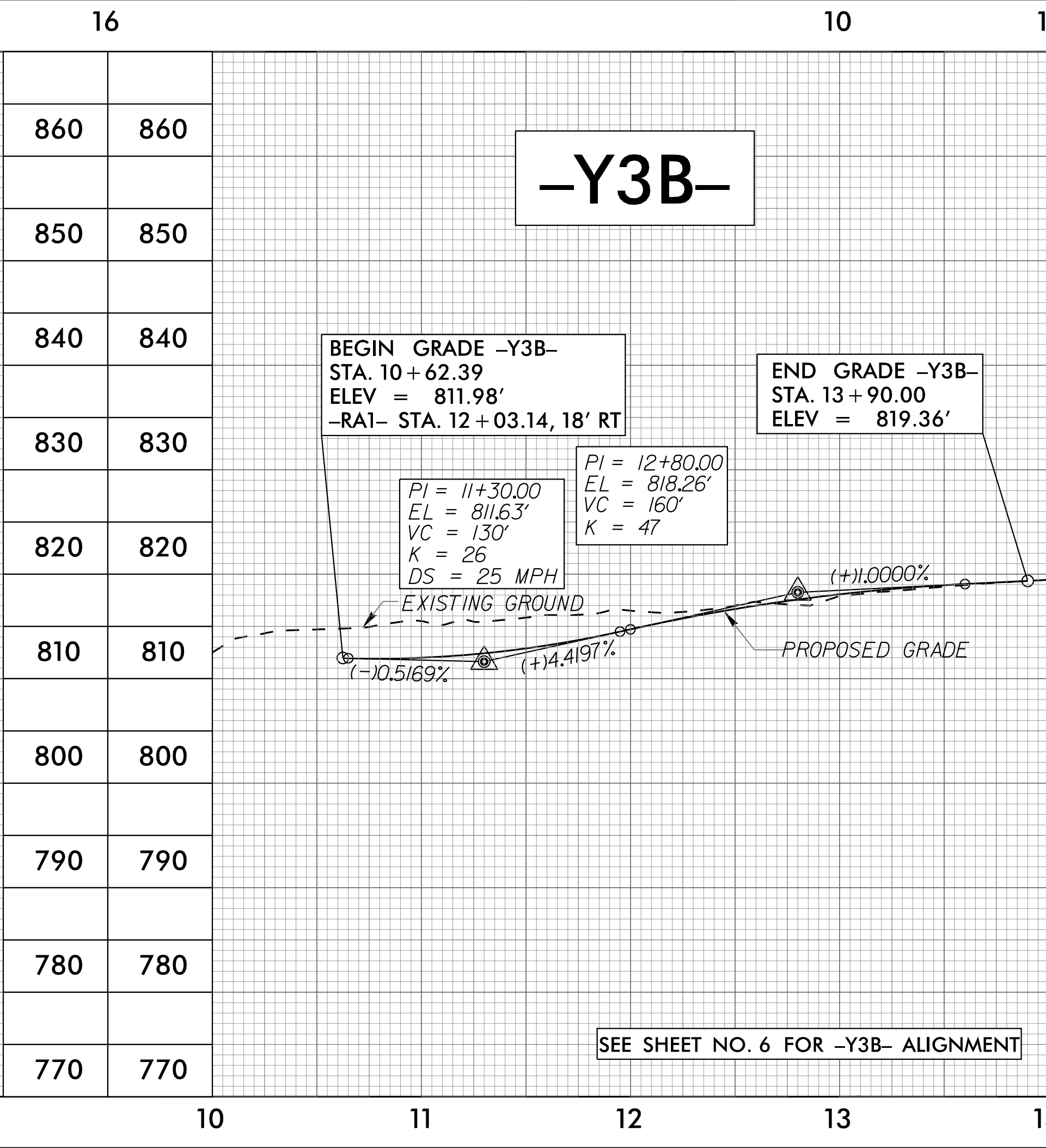
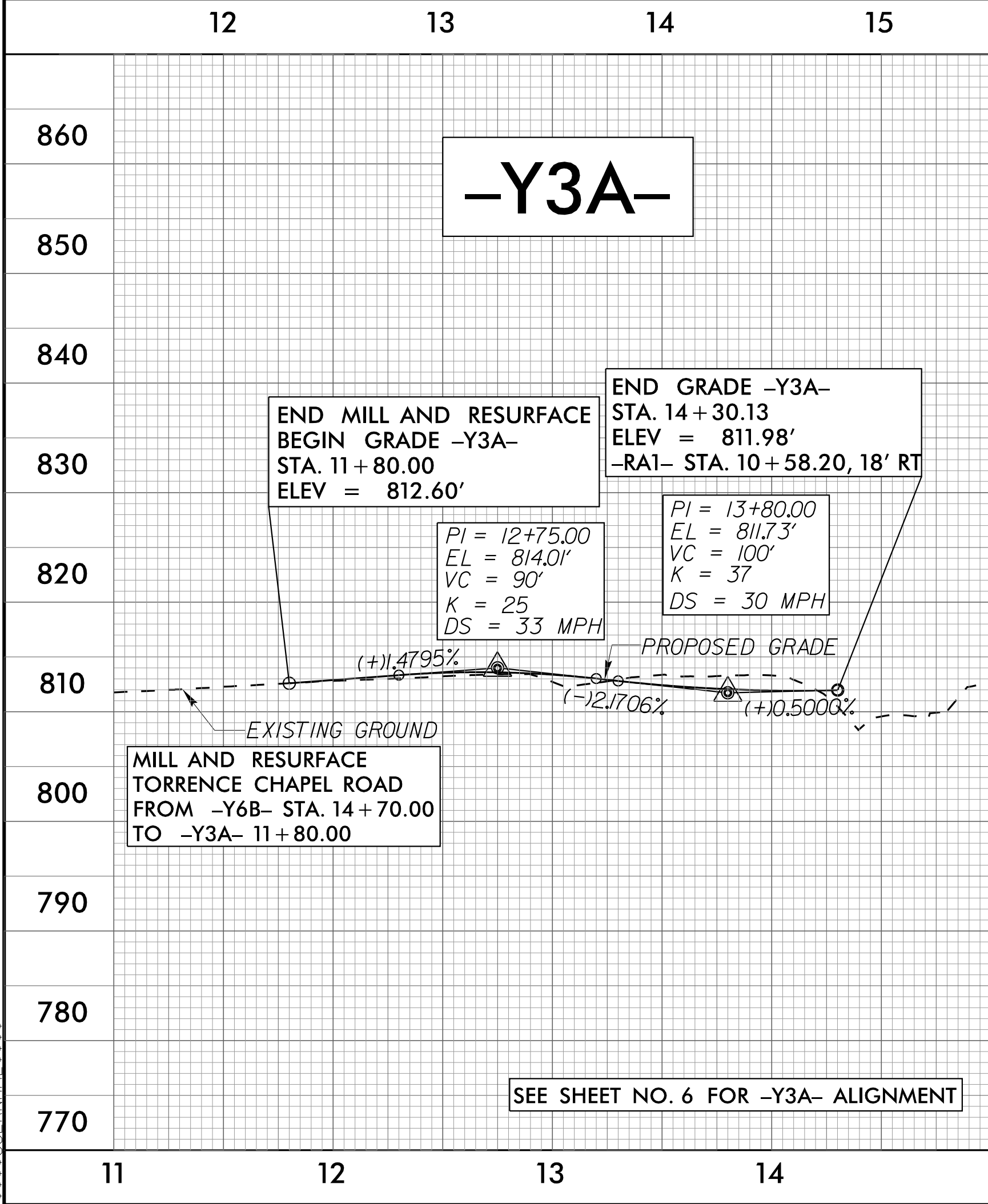


5/28/24

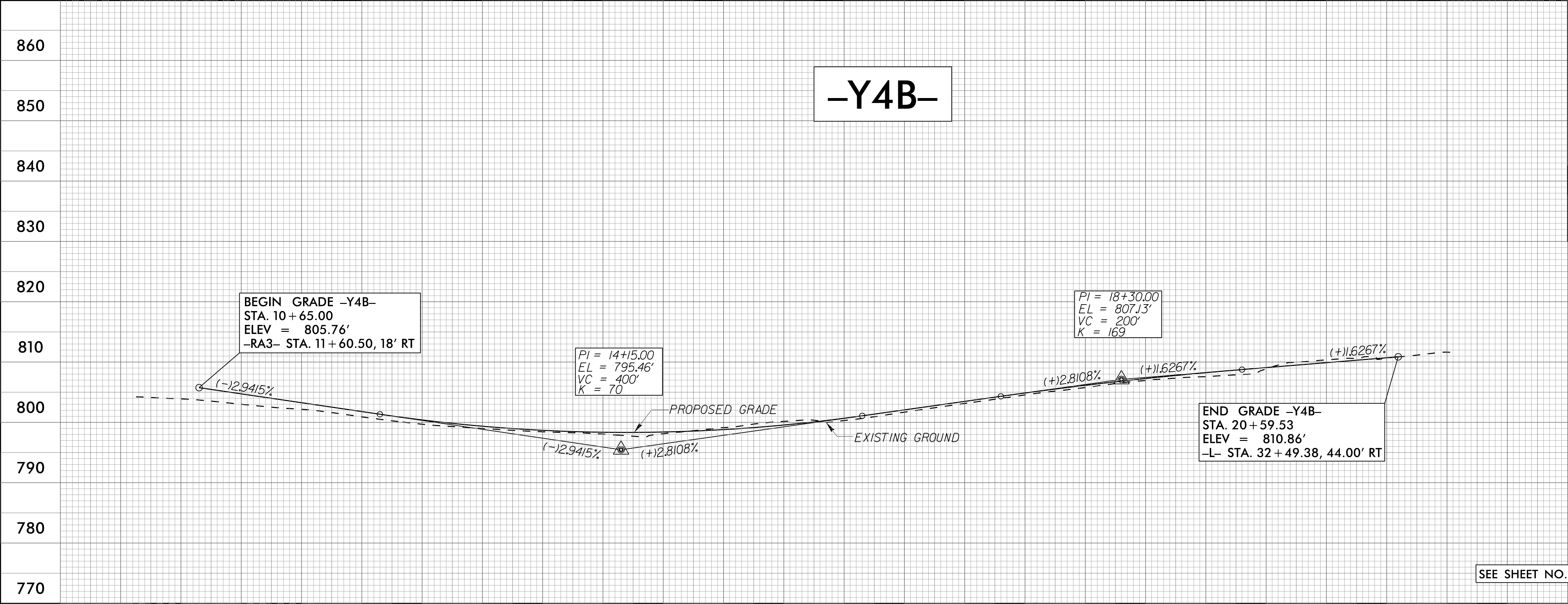


PROJECT REFERENCE NO. U-5906		SHEET NO. 12	
ROADWAY DESIGN ENGINEER 		HYDRAULICS ENGINEER 	
9/11/2025		9/15/2025	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
1520 SOUTH BOULEVARD, SUITE 200 CHARLOTTE, NC 28203 NC FIRM LICENSE No: F-0493			

15-JUL-2025 14:01
5/28/24 15:00
5/28/24 15:00



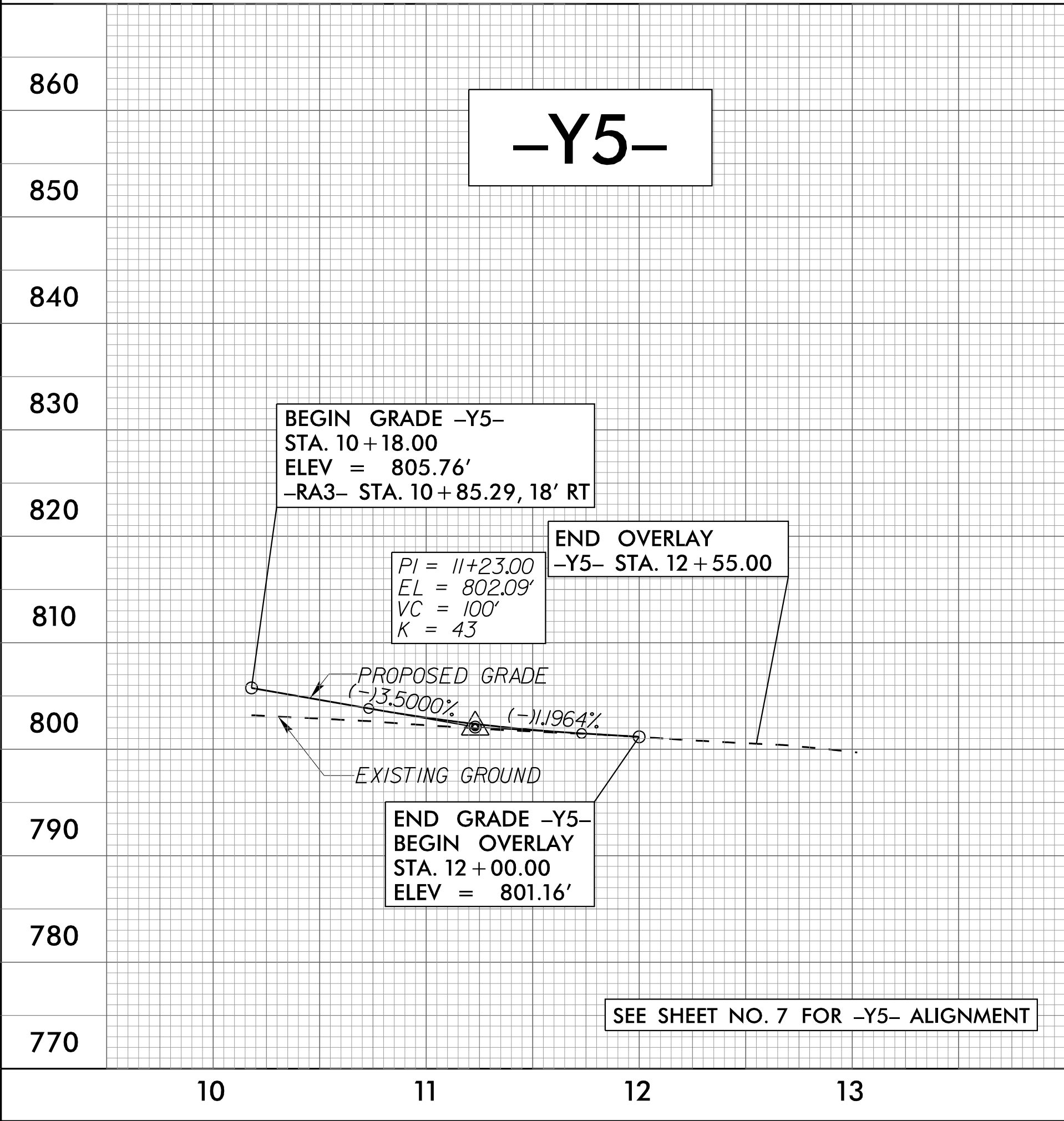
5/28/24



PROJECT REFERENCE NO. <i>U-5906</i>		SHEET NO. <i>13</i>	
ROADWAY DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL SEAL ALEXANDER R. DRAKE 9/11/2025		HYDRAULICS ENGINEER NORTH CAROLINA PROFESSIONAL SEAL ALEXANDER R. DRAKE 9/15/2025	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
RS&H 1520 SOUTH BOULEVARD, SUITE 200 CHARLOTTE, NC 28203 NC FIRM LICENSE No: F-0493			

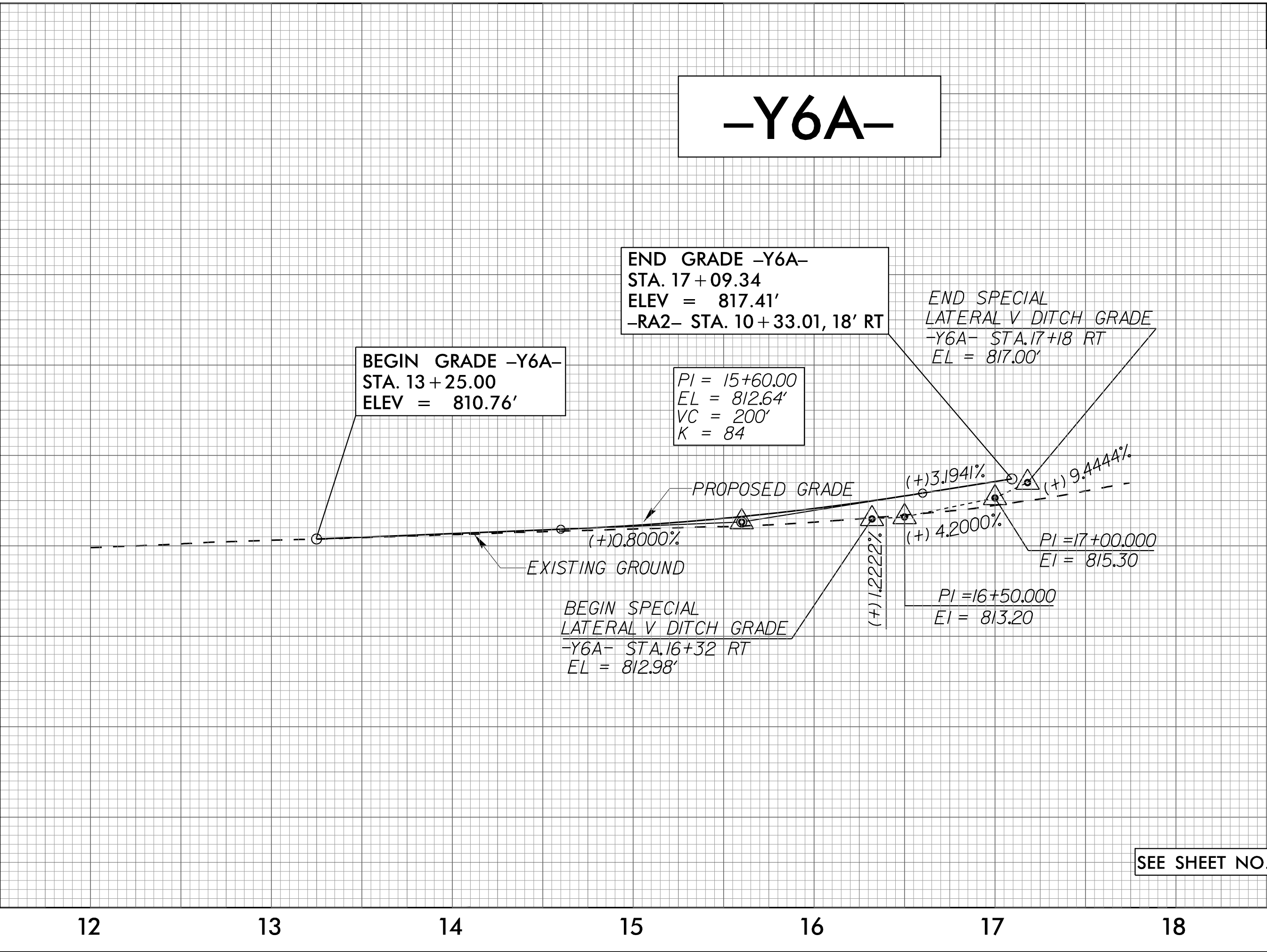
SEE SHEET NO. 7, 8 FOR -Y4B- ALIGNMENT

15-JUL-2025 14:01
5/28/24 13:40
5/28/24 13:40



SEE SHEET NO. 7 FOR -Y5- ALIGNMENT

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850	850
840	840
830	830
820	820
810	810
800	800
790	790
780	780
770	770

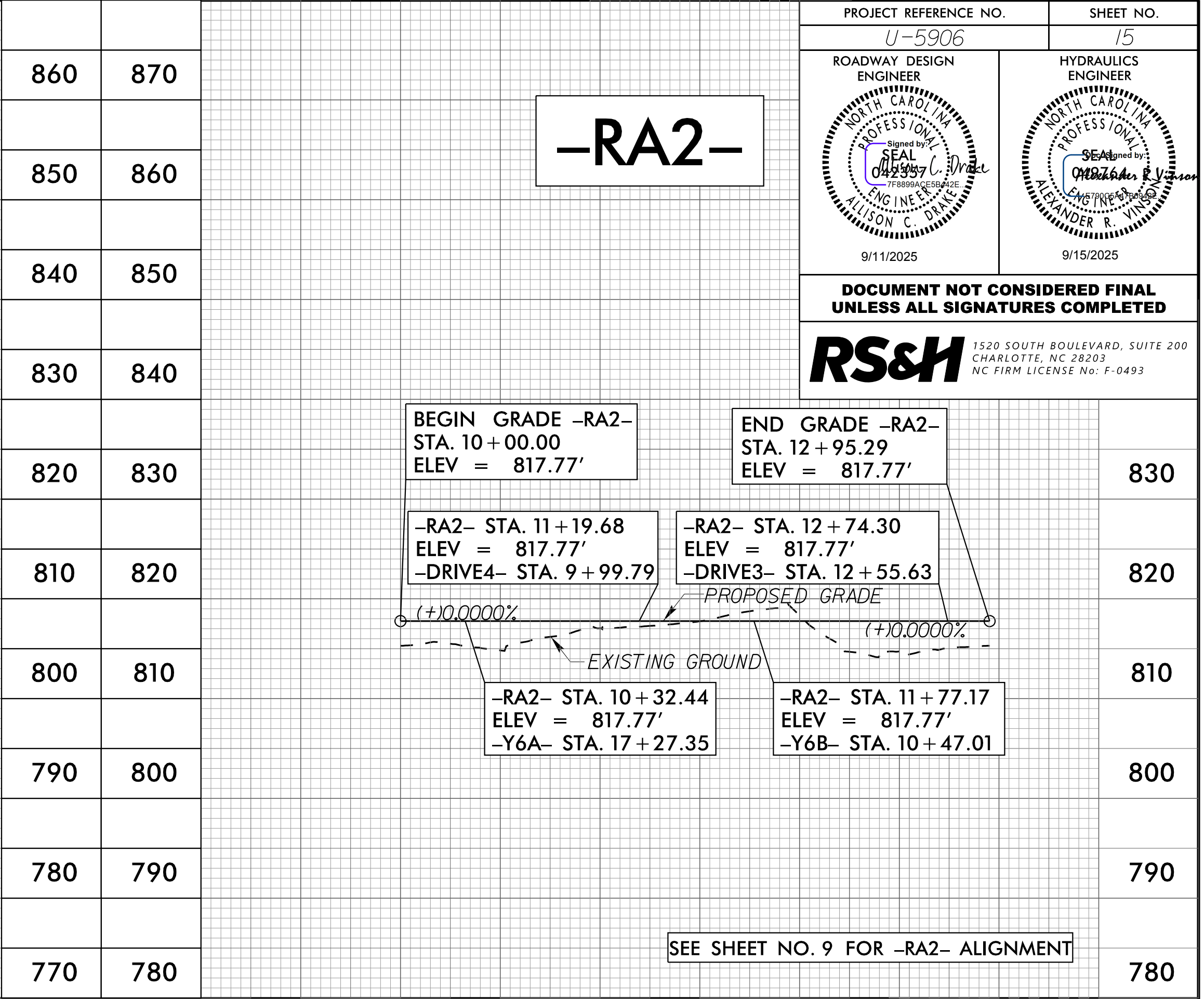
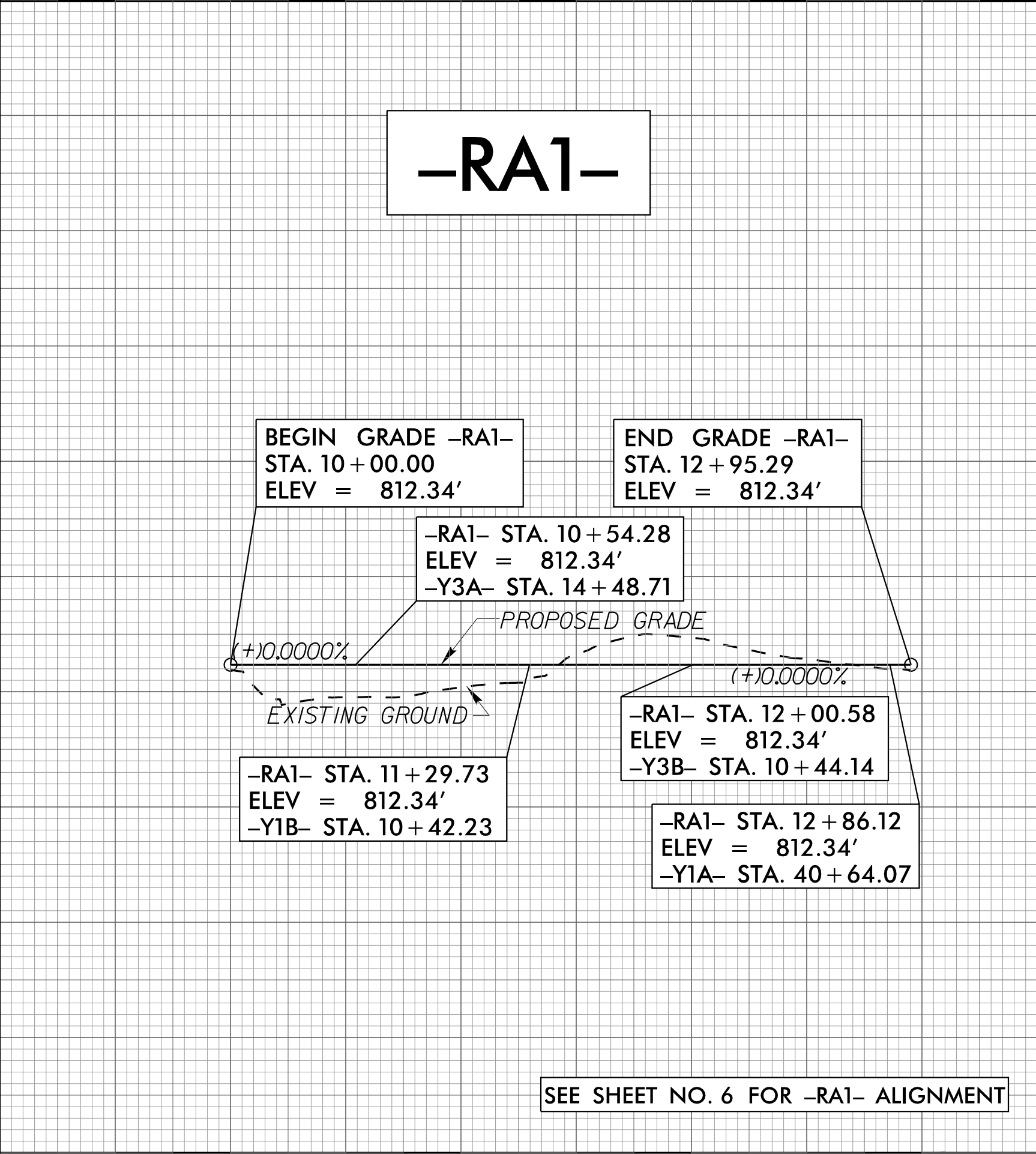
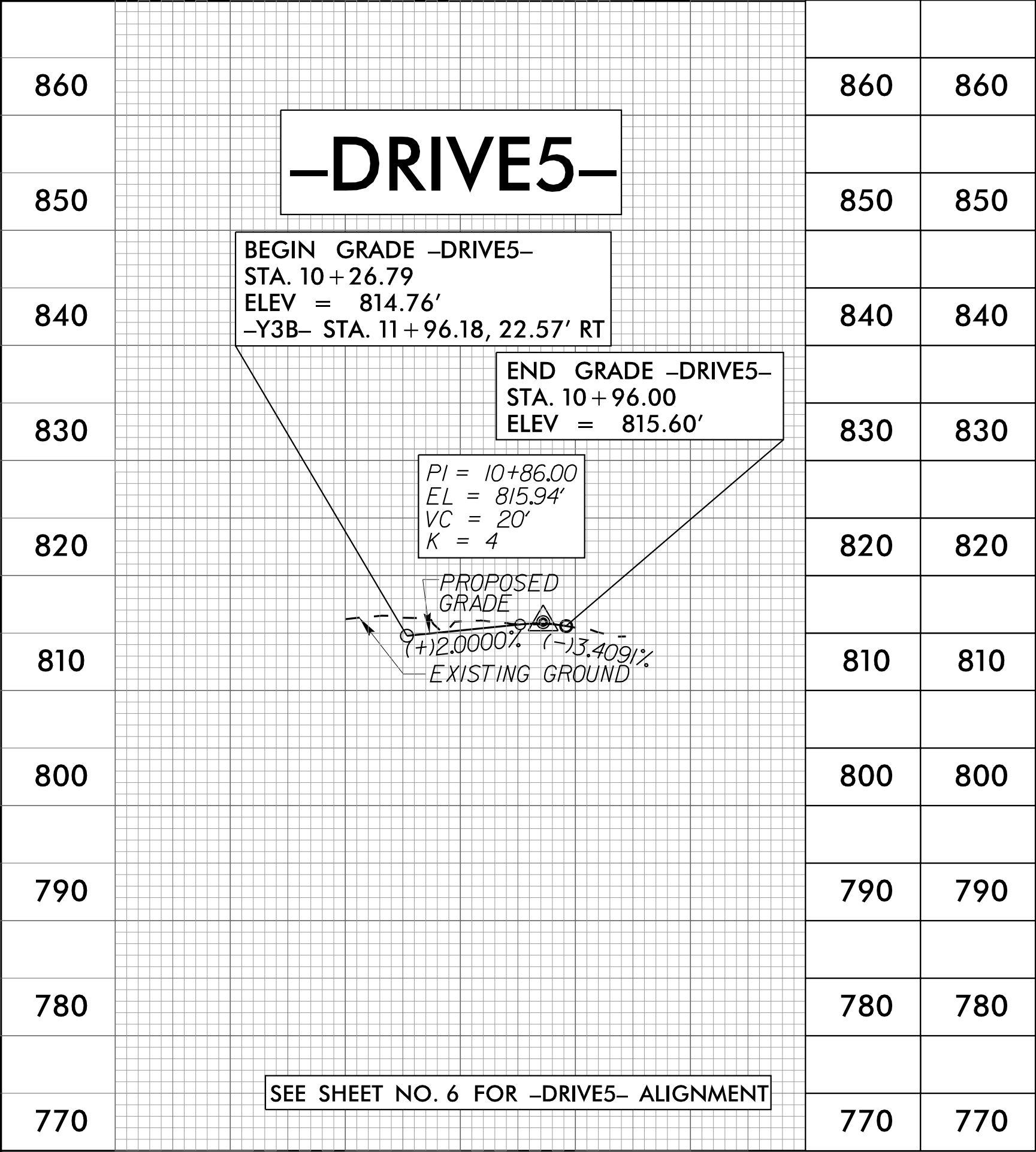


SEE SHEET NO. 8, 9 FOR -Y6A- ALIGNMENT

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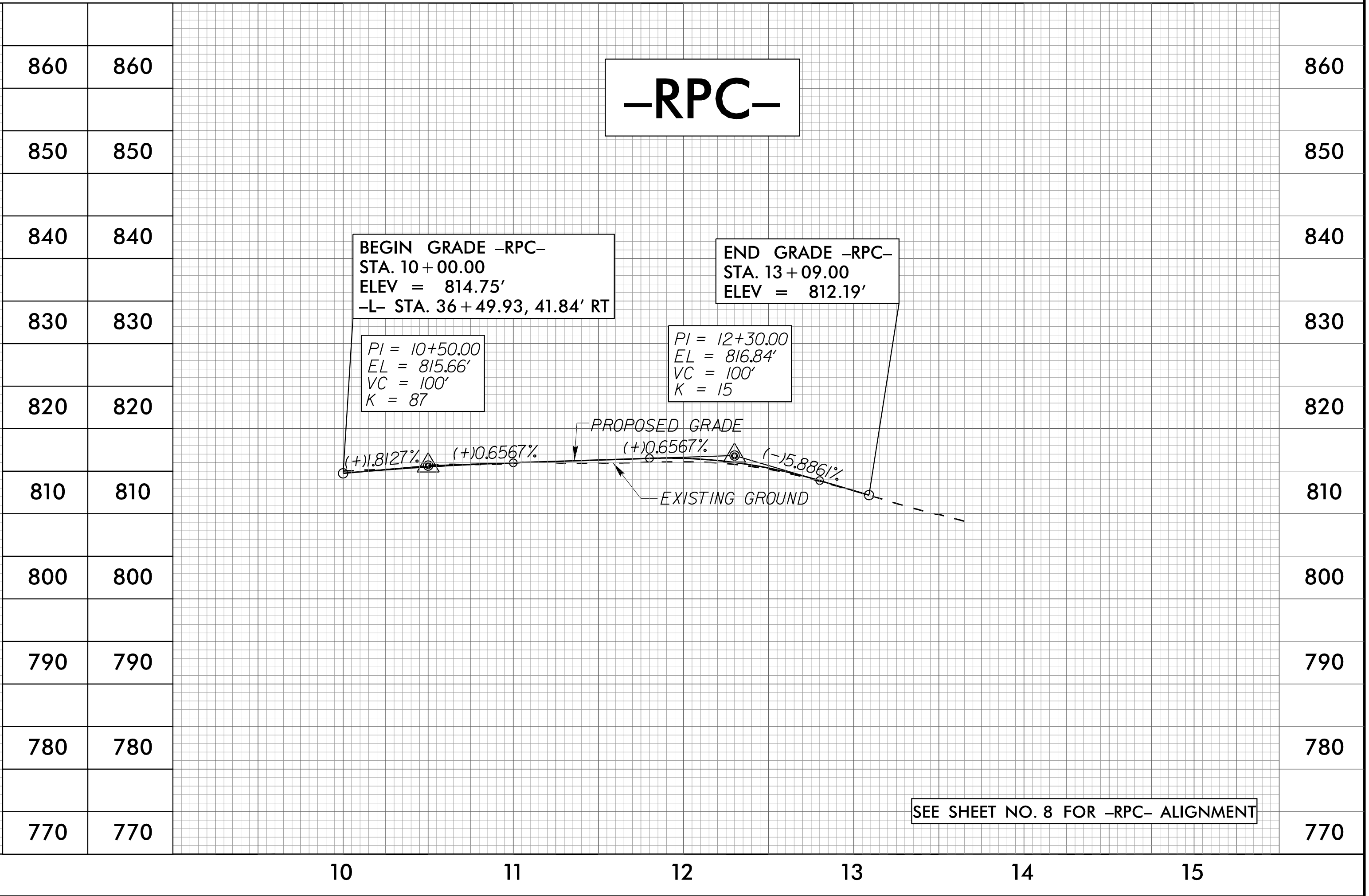
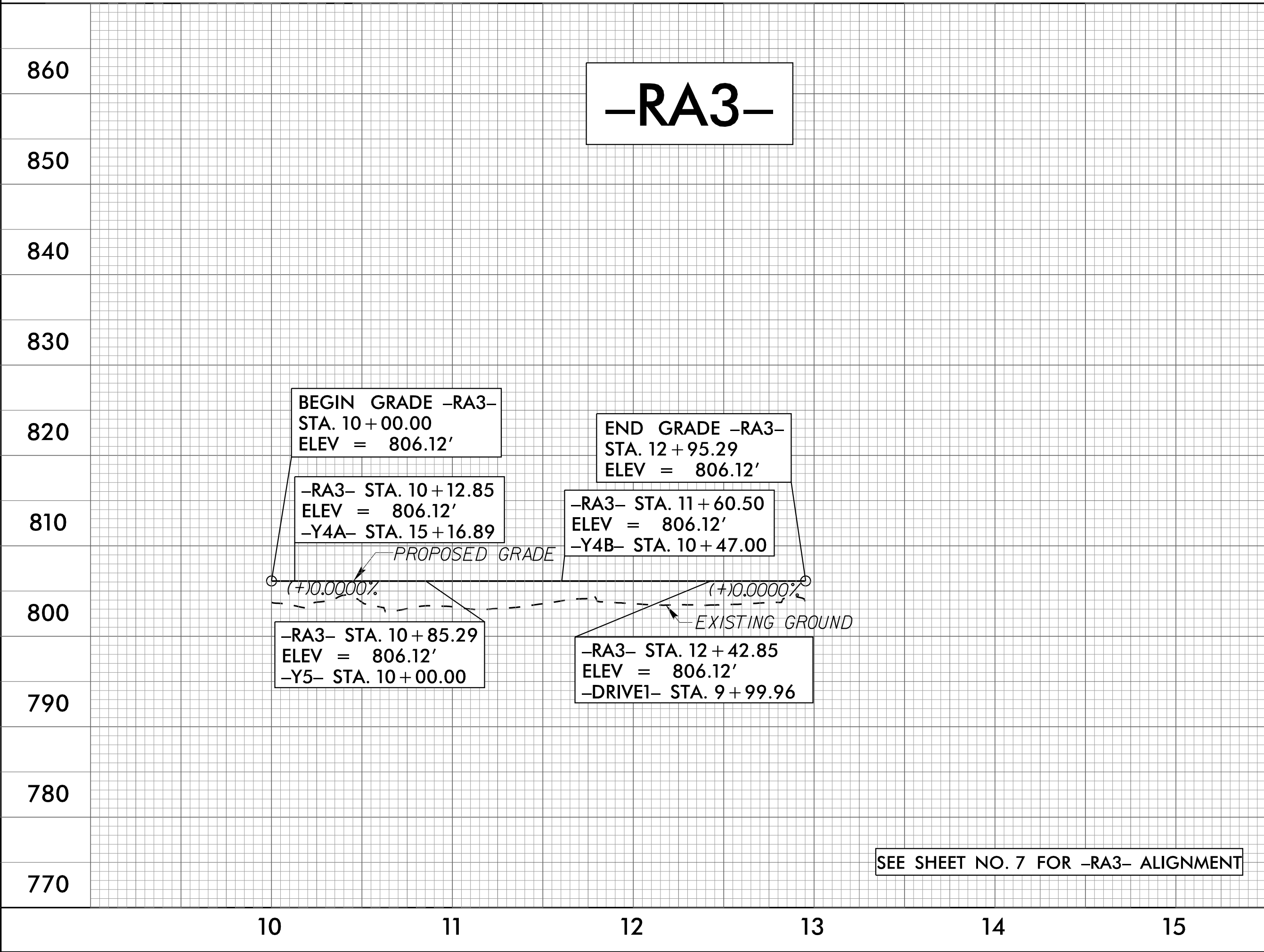
RIGHT DITCH -----

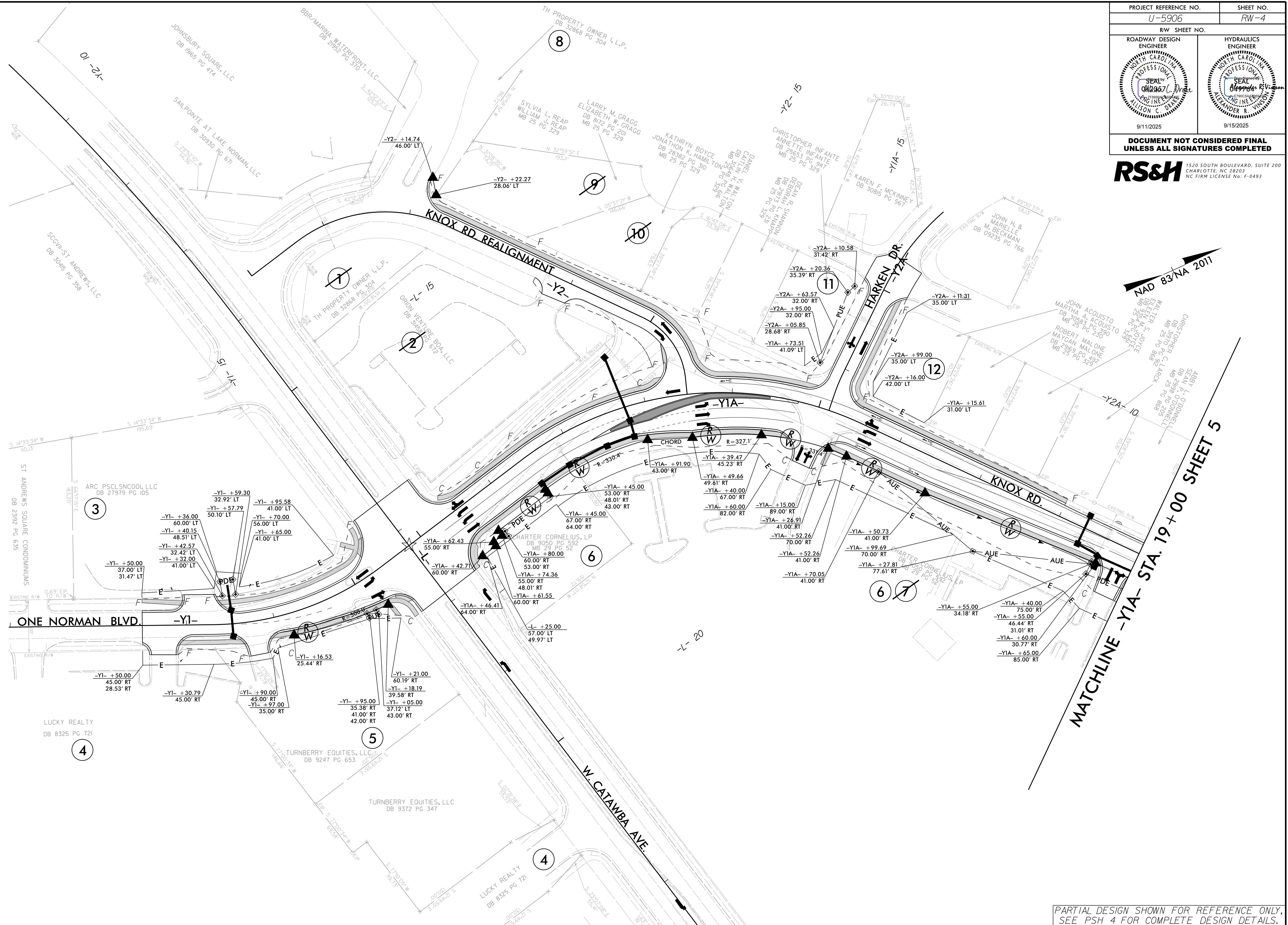
5/28/24



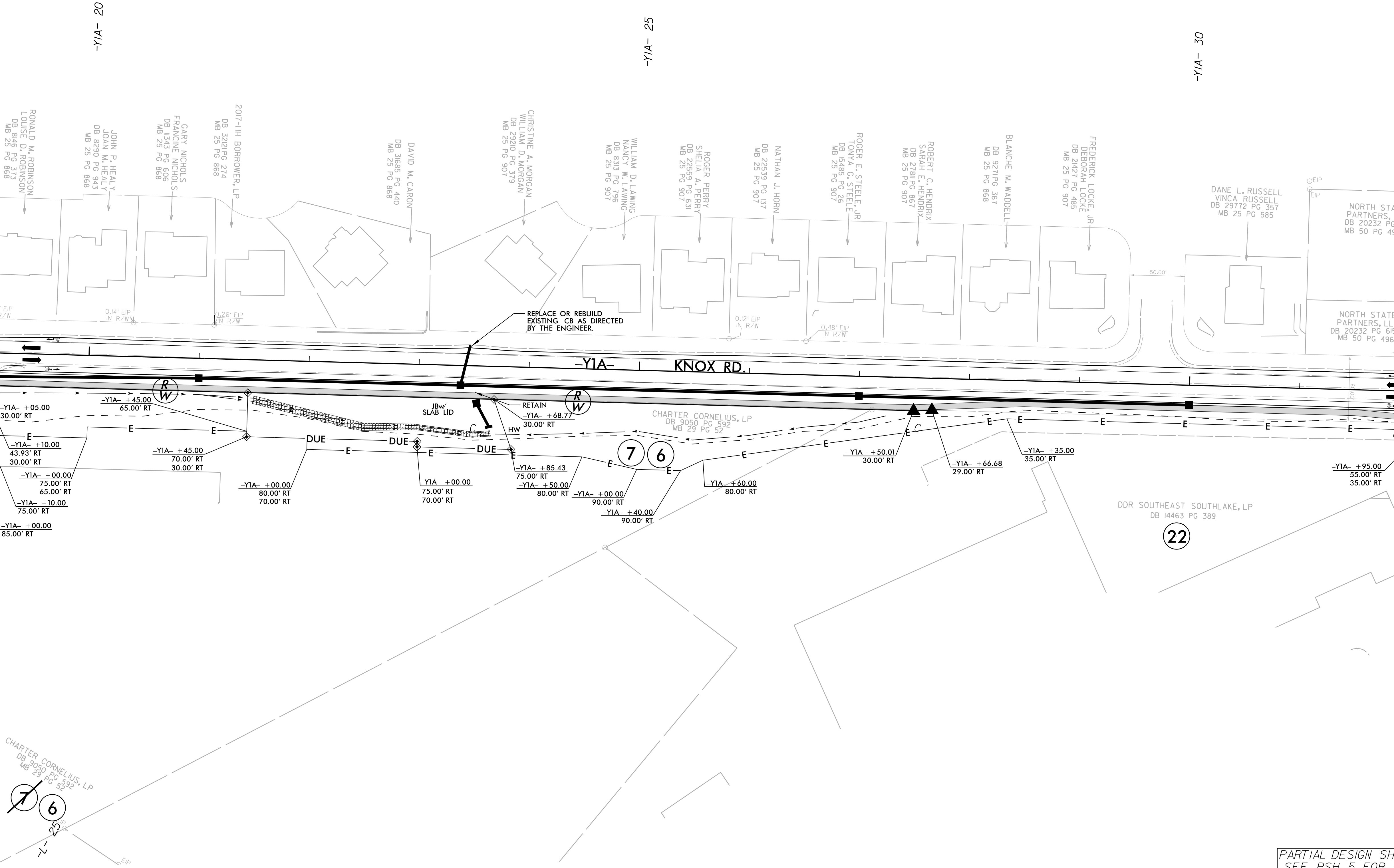
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U-5906		15	
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DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
 1520 SOUTH BOULEVARD, SUITE 200 CHARLOTTE, NC 28203 NC FIRM LICENSE No: F-0493			

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MATCHLINE -Y1A- STA. 19 + 00 SHEET 4



PROJECT REFERENCE NO. <i>U-5906</i>		SHEET NO. <i>RW-5</i>	
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DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

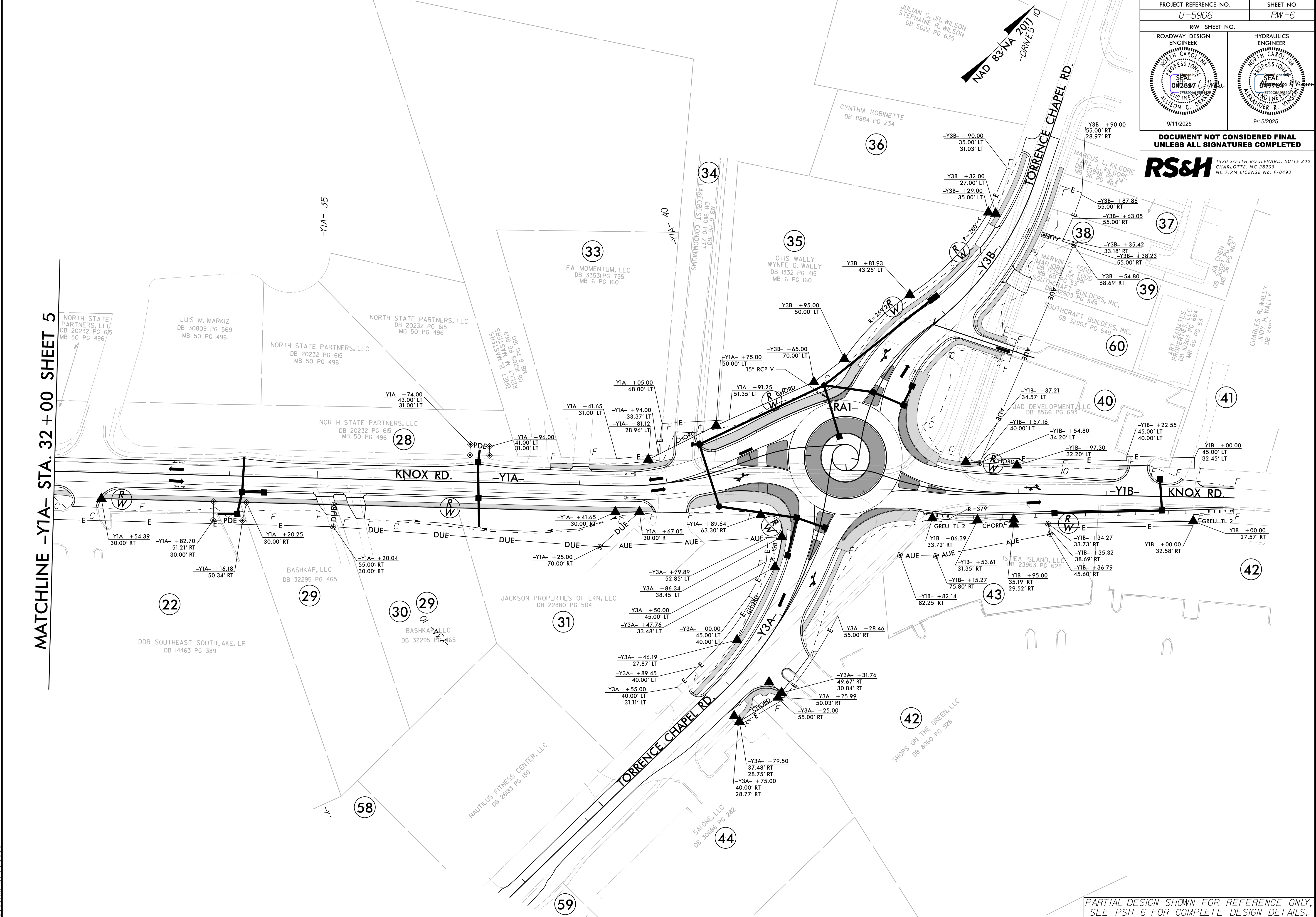
RS&H 1520 SOUTH BOULEVARD, SUITE 200
CHARLOTTE, NC 28203
NC FIRM LICENSE No: F-0493

PARTIAL DESIGN SHOWN FOR REFERENCE ONLY,
SEE PSH 5 FOR COMPLETE DESIGN DETAILS.

8/17/99

MATCHLINE -Y1A- STA. 32 + 00 SHEET 5

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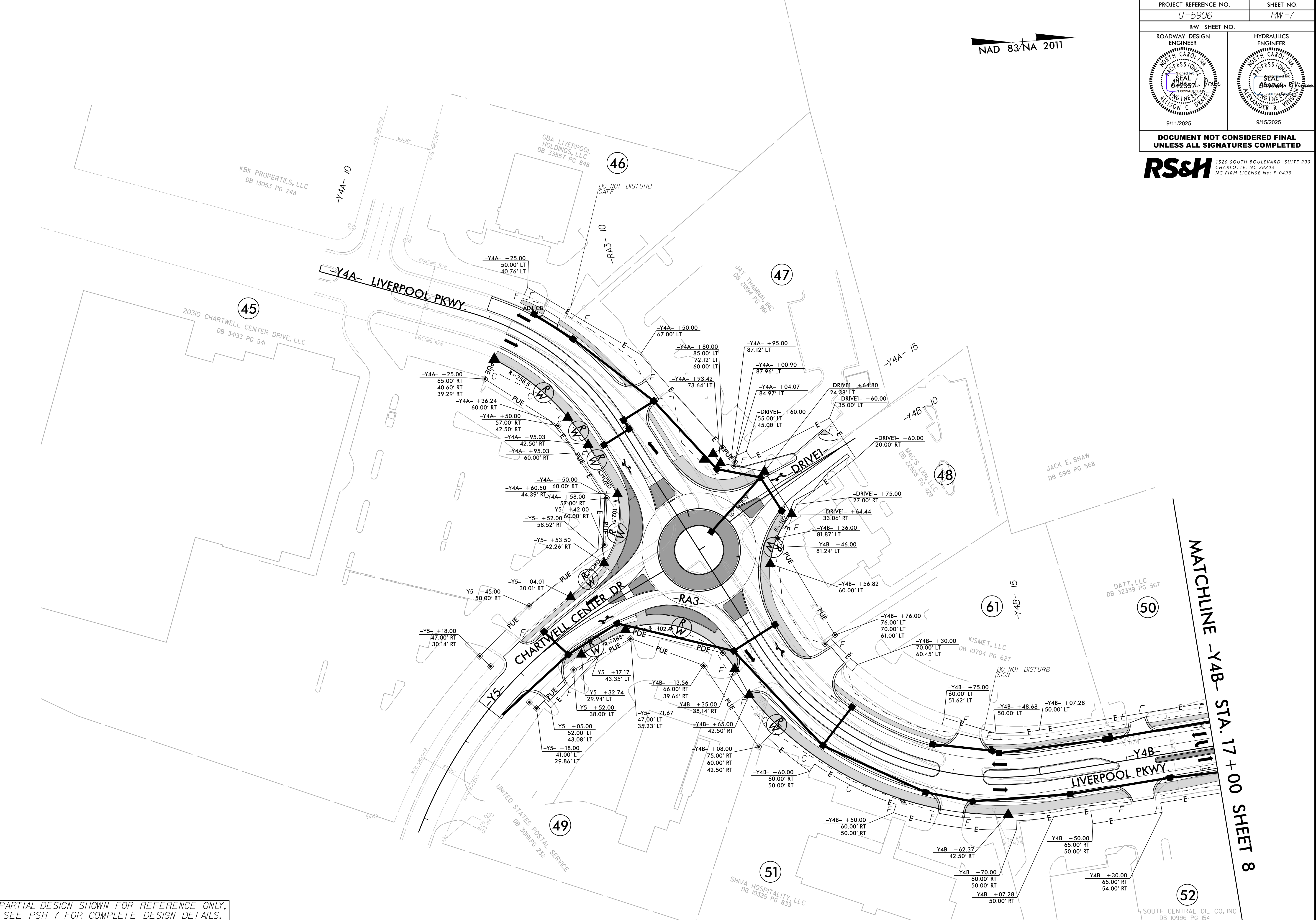
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RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

RS&H 1520 SOUTH BOULEVARD, SUITE 200
CHARLOTTE, NC 28203
NC FIRM LICENSE No: F-0493

8/17/99

15-JUL-2025 14:02
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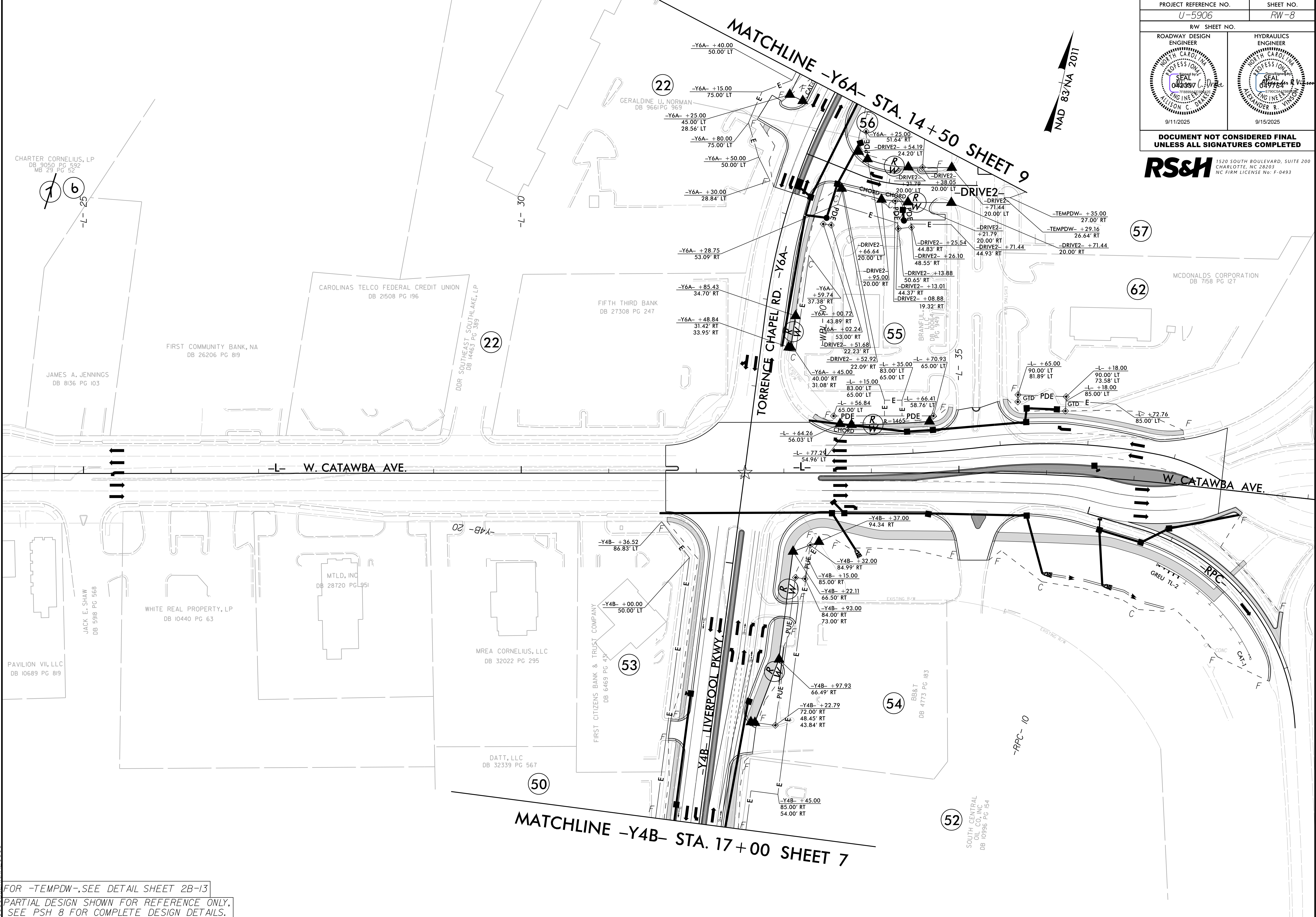
PARTIAL DESIGN SHOWN FOR REFERENCE ONLY,
SEE PSH 7 FOR COMPLETE DESIGN DETAILS.



8/17/99

PROJECT REFERENCE NO.		SHEET NO.	
U-5906		RW-8	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
9/11/2025		9/15/2025	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

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CHARLOTTE, NC 28203
NC FIRM LICENSE NO: F-0493



FOR -TEMPDW-, SEE DETAIL SHEET 2B-13
PARTIAL DESIGN SHOWN FOR REFERENCE ONLY,
SEE PSH 8 FOR COMPLETE DESIGN DETAILS.

