

KCP-2M663X2

COMPUTED BY: Will Hines, Jr., PE DATE: 4/12/2018
CHECKED BY: Joshua G. Dalton, PE DATE: 4/12/2018

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO. R-5020B SHEET NO. 3D-10

Note: Invert Elevations indicated are for Bid Purposes only and shall not be used for project construction stakeout. See "Standard Specifications For Roads and Structures, Section 300-5".

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

Table with columns for Line & Station, Offset, Structure Number, Drainage Pipe, R.C. Pipe Class, Ductile Iron Pipe, Quantities for Sealed Drainage Structures, Endwalls, Reinforced Endwalls, Drainage Structure, Quantities for Drainage Structures, Frame, Grates, and Hood, Concrete Transitional Section, Open Throat C.B., D.I. Frame and Grates, G.D.I. Type, G.D.I. Type 'D', G.D.I. (W.S. Flat) Frame, G.D.I. (W.S. Sag) Frame, G.D.I. (N.S. Sag) Frame, G.D.I. (N.S. Flat) Frame, J.B., T.B.D.I., M.H., Convert Existing C.B., Sluice Gate, Adjust D.I., 15" Drainage Pipe Elbow, Flowable Fill, Concrete Collars, Concrete and Brick Pipe Plug, Pipe Removal, and Abbreviations.

SHEET TOTALS













COMPUTED BY: J. PARK DATE: 2/25/2019  
 CHECKED BY: B. SMITH DATE: 3/18/2020

(1-16-18)

PROJECT NO.	SHEET NO.
R-5020B	3G-1

STATE OF NORTH CAROLINA  
 DIVISION OF HIGHWAYS

SUMMARY OF SUBSURFACE DRAINAGE

LINE	Station	Station	Location LT/RT/CL	Drain Type* UD/BD/SD	LF
CONTINGENCY				SD	200
				TOTAL LF:	200

\*UD = Underdrain  
 \*BD = Blind Drain  
 \*SD = Subsurface Drain

SUMMARY OF AGGREGATE SUBGRADE/STABILIZATION

LINE	Station	Station	Aggregate Type* ASU/AST	Aggregate Thickness INCHES	Shallow Undercut CY	Class IV Subgrade Stabilization TONS	Geotextile for Soil Stabilization SY	Stabilizer Aggregate TONS	Class IV Aggregate Stabilization TONS	
-L-	182+90	227+25	ASU	12	6380	12280	18660			
-RPB-	11+30	13+75	ASU	12	120	220	340			
CONTINGENCY							400		500	
					TOTAL CY/TONS/SY:	6500	12500**	19400**	0	500

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

SUMMARY OF REINFORCED SOIL SLOPES AND SLOPE EROSION CONTROL

LINE	Beginning Slope/ RSS (H:V)	Approx. Station	Ending Slope/ RSS (H:V)	Approx. Station	Location LT/RT	Reinforced Soil Slope (RSS) SY	Geocells SY	Coir Fiber Mat SY	Matting for Erosion Control SY
-L-	2.5	248+25 ±	2.5	251+25 ±	LT	650			650
TOTAL SY:						650	0	0*	650**

\*Total square yards of "Coir Fiber Mat" is only the estimated quantity for slopes steeper than 2:1 (H:V) and may only represent a portion of the coir fiber mat quantity shown in the Item Sheets of the Proposal.  
 \*\*Total square yards of "Matting for Erosion Control" is only the estimated quantity for RSS and may only represent a portion of the matting quantity shown in the Item Sheets of the Proposal.



**STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS**

**PARCEL INDEX SHEET**

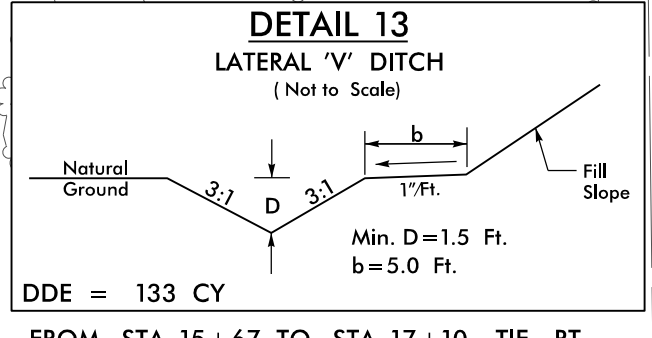
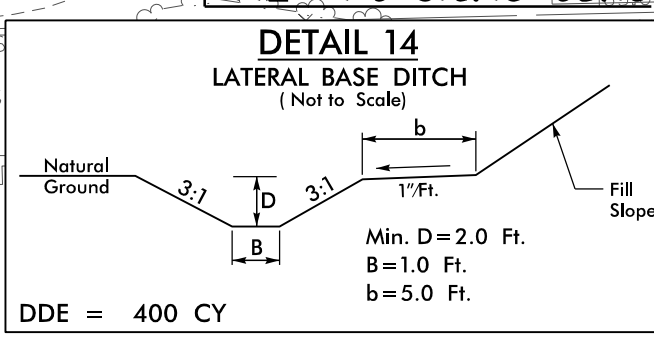
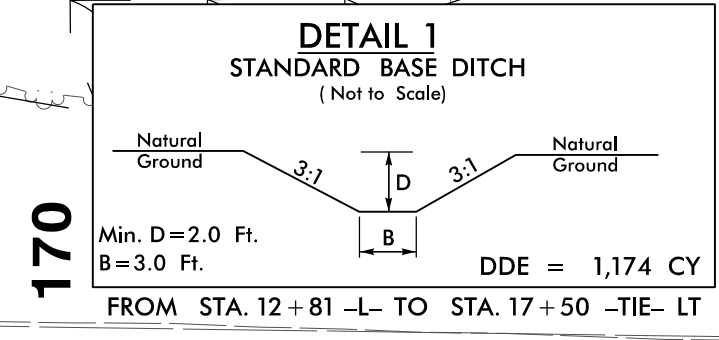
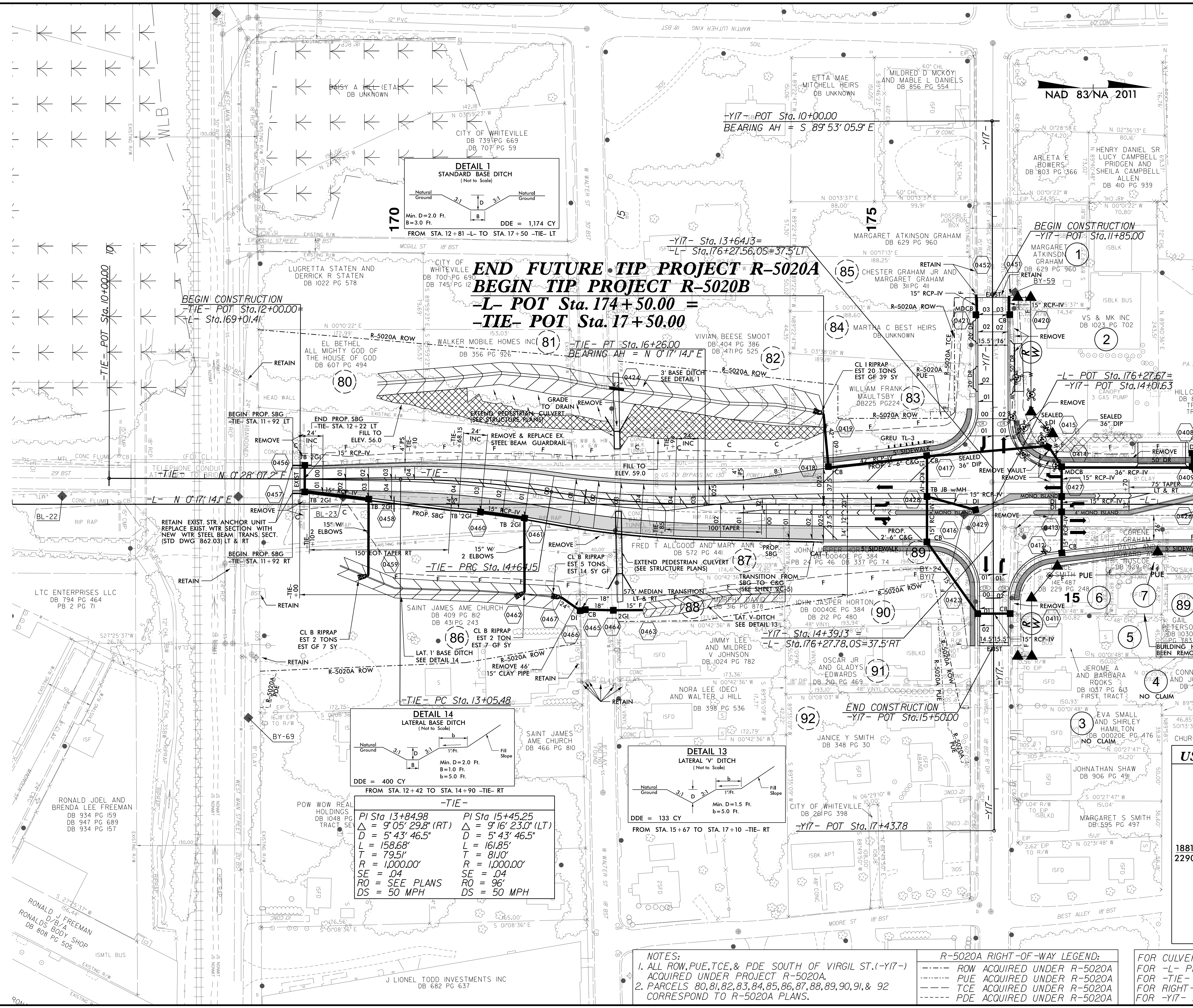
<b>PROJ. REFERENCE NO.</b>	<b>SHEET NO.</b>
R-5020B	3P-1

PARCEL No.	SHEET No.	PROPERTY OWNER NAME
1	4	MARGARET ATKINSON GRAHAM
2	4	VS & MK INC
3	4	EVA SMALL AND SHIRLEY HAMILTON - (NO CLAIM)
4	4	CONNIE EDWARDS AND JOHN S YOUNG - (NO CLAIM)
5	4	JEROME A AND BARBARA ROOKS
6	4	JANICE Y. SMITH
7	4	CORENE GRAHAM DAVIS AND HOWARD AND ROSCOE
8	4	DEPARTMENT OF TRANSPORTATION
9	4	MBB HOLDINGS LLC
10	4,5	HAMMONDS MYRA LEE
11	5	SON-FISH CORP
12	5	CAROL JOHN CALDWELL
13	5	JANICE Y. SMITH
14	5	JESSE P. AND ROSE WALKER
15	5	EDITH M RUSSELL AND LINDA A KOPRA
16	5	LENNON AND SPAULDING AMERICAN LEGION POST NO. 233
17	5	JUANITA G TROY
18	5	WHITEVILLE ABC STORE
19	5	SIBBETT PROPERTIES INC
20	5	SIBBETT PROPERTIES INC
21	5	WACCAMAW DEVELOPMENT CORP
22	5	LOIS WILLIAMS GERALD REVOCABLE LIVING TRUST TRACT 1
23	5	GERALD & GERALD (INC)
24	5	JOHN E JR AND SARA B THOMPSON
25	5,6	MARY ALICE BULLOCK
26	6	SIGNET HEALTHCARE INC
27	6	JAMES DAVID AND VIRGINIA MAE NORRIS
28	6	AMICUS INVESTMENTS LLC
29	6	HOLLY FAMILY, LLC
30	6	JAMES E(DEC) AND GLORIA MCCULLUM
31	6	KCS FARMS LLC
32	6	PREMIERE ENTERPRISES OF WHITEVILLE LLC
33	6	PREMIERE PROPERTIES OF WHITEVILLE, LLC
34	6,7	US 701 DRIVE IN, LLC
35	5,6	CRESCOM BANK
36	6	LESSOR PROPERTIES LLC
37	6	STANLEY SAM P (III)
38	6	DEWEY L. HILL
39	6	HILLCREST CORP
40	6,7	E AUTRY AND FAYE DAWSEY
42	7	GORDON CHEE-MING AND SIU-YUNG WONG
43	7	JEROME A AND BARBARA ROOKS
44	7	COLUMBUS COUNTY
45	7	RJ HAMILTON INVESTMENTS, LLC
46	7	PREMIER ENTERPRISES OF WHITEVILLE
47	7	JONATHAN KYLE COX
48	7,8	O'REILLY AUTOMOTIVE INC
49	6,7	WHITEVILLE CITY BD OF EDUCATION
50	7,8	DAWSEY INVESTMEN COMPANY INC
51	8	LESSOR PROPERTIES LLC
52	8	SERVICE REALTY COMPANY
53	8	Z V PATE INC
54	8	Z V PATE INC
55	8	CITY OF WHITEVILLE
56	8	ARCP WG PORTFOLIO II LLC
57	8,9	DEPARTMENT OF TRANSPORTATION
58	8	PREMIERE ENTERPRISES OF WHITEVILLE
59	8	BASS - FISHER PROPERTIES, LLC
60	8	PREMIERE ENTERPRISES OF WHITEVILLE
61	8	CHARLES ARON AND HEIDI DUNCAN

PARCEL No.	SHEET No.	PROPERTY OWNER NAME
62	8	PREMIER ENTERPRISES OF WHITEVILLE, LLC
63	8	WILSON ELAINE ELLIOTT
64	8	WHITEVILLE MINI MALL LLC
64A	8	WHITEVILLE MINI MALL LLC
65	8	YAM CITY OIL CO, INC
66	8	REALTY INCOME PROP. 21 LLC
67	8,9	WHITEVILLE HEBREW CENTER
68	9	PEGGY H AND JOHN J NOROSKY
69	9	701 ASSOCIATES INC
70	9	MARY JO BULLARD WILLIAMSON
71	9	CAMPBELL RENTALS LLC
72	9	4C DEVELOPMENT LLC
73	9	GOLD LEAF INVESTMENTS LLC
74	9	WILLIAM E AND BETTIE LOU P MEMORY
75	9	FIRST BANK WHITEVILLE NORTH CAROLINA
76	9	PULLIAM WHITEVILLE LLC
77	9	CARNES HOLDINGS LLC
78	9,10	HOOKS AND HUGGINS NORTHFIELD LLC
79	9,10	KYLE A. COX AND JONATHAN K. COX
80	10	HOOKS AND HUGGINS DEVELOPMENT LLC
81	10	STATE EMPLOYEE CREDIT UNION
82	11,12	PREMIERE ENTERPRISES OF WH LLC
83	12	PRIDGEN MORRIS DELANO
84	5	JAMES O PRICE AND EDITH G
85	5	SHAW ARMWOOD
86	6	COLLIER FAMILY PROPERTIES LLC
87	7	HUANG DE KE
88	7	ELRA F AND BARBARA JANE INMAN
89	4	GAIL PETERSON
90	8	BRYANT RESTAURANTS INC
91	9	SHIRLEY J. EVANS (NO CLAIM)
92	9	HOOKS AND HUGGINS DEVELOPMENT LLC
93	5	EUGENE J AND CORA CALDWELL
94	5	TMS FAMILY SERVICES INC

8/17/2019  
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PROJECT REFERENCE NO. <b>R-5020B</b>	SHEET NO. <b>4</b>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER 
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
KCI Engineers • Planners • Scientists • Construction Managers 4505 Falls of Neuse Road, Suite 400 Raleigh, NC 27609-6270 Phone (919) 783-9214 • Fax (919) 783-9266	
SUNGATE DESIGN GROUP, P.A. 800 JONES FRANKLIN ROAD RALEIGH, NORTH CAROLINA 27606 TEL (919) 859-2243 FAX (919) 859-6258 ENG. REG. LICENSE NO. C4600	



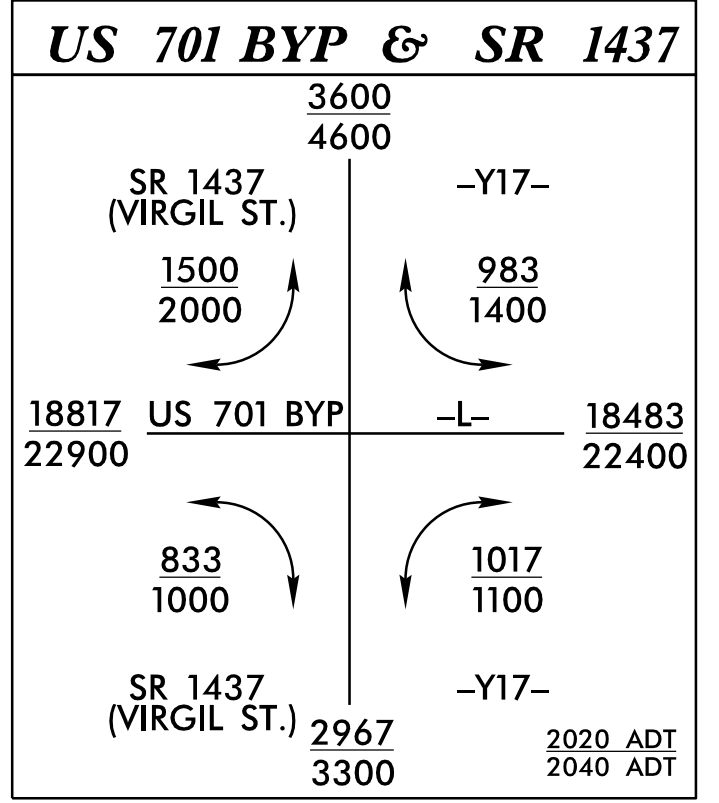
-TIE-

PI Sta 13+84.98 $\Delta = 9' 05" 29.8" (RT)$ $D = 5' 43" 46.5"$ $L = 158.68'$ $T = 79.51'$ $R = 1,000.00'$ $SE = .04$ $RO = SEE PLANS$ $DS = 50 MPH$	PI Sta 15+45.25 $\Delta = 9' 16" 23.0" (LT)$ $D = 5' 43" 46.5"$ $L = 161.85'$ $T = 81.0'$ $R = 1,000.00'$ $SE = .04$ $RO = 96'$ $DS = 50 MPH$
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NOTES:  
 1. ALL ROW, PUE, TCE, & PDE SOUTH OF VIRGIL ST. (-Y17-) ACQUIRED UNDER PROJECT R-5020A.  
 2. PARCELS 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, & 92 CORRESPOND TO R-5020A PLANS.

R-5020A RIGHT-OF-WAY LEGEND:  
 --- ROW ACQUIRED UNDER R-5020A  
 --- PUE ACQUIRED UNDER R-5020A  
 --- TCE ACQUIRED UNDER R-5020A  
 --- PDE ACQUIRED UNDER R-5020A

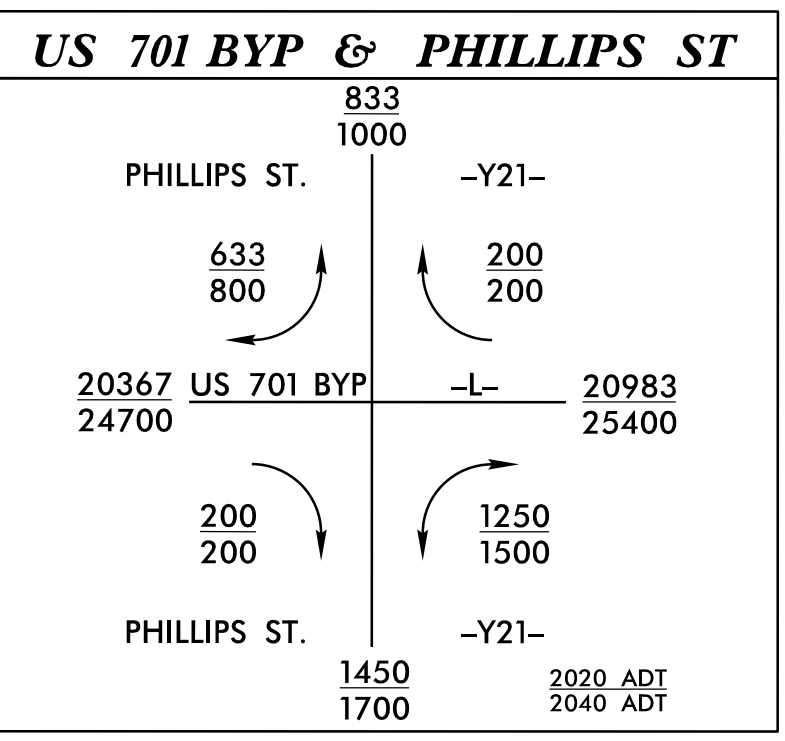
FOR CULVERT PLANS, SEE SHEETS CI-1 TO CI-4  
 FOR -L- PROFILE, SEE SHEET 15  
 FOR -TIE- PROFILE, SEE SHEET 23  
 FOR RIGHT-OF-WAY DATA, SEE SHEET RW-4  
 FOR -Y17- INTERSECTION DETAIL, SEE SHEET 2B-3



MATCHLINE -L- STA. 180+00 SEE SHEET 5

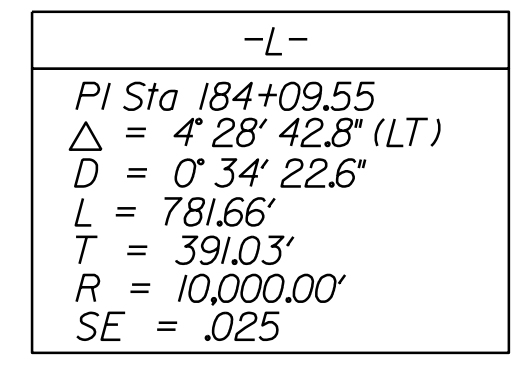
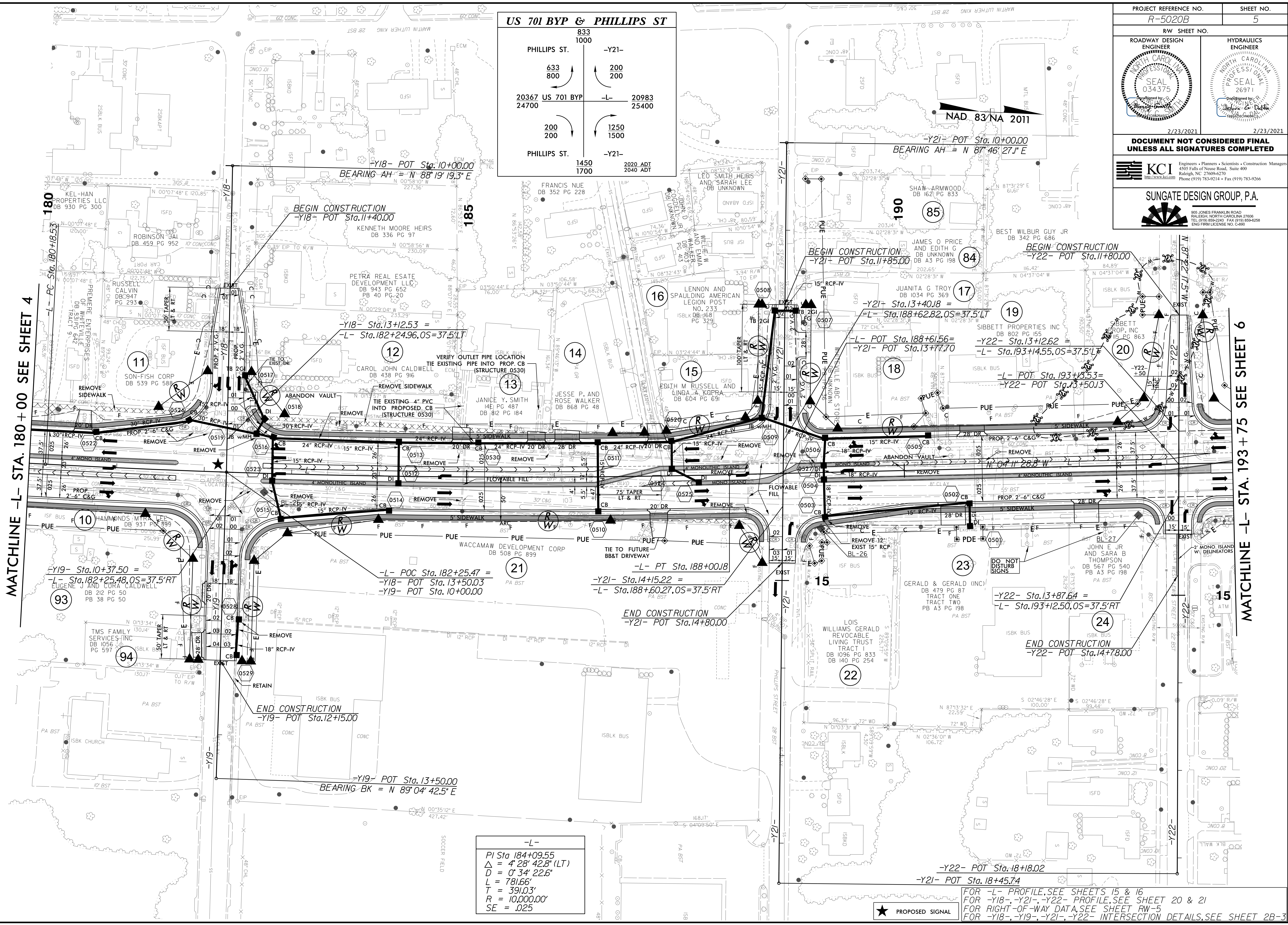
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PROJECT REFERENCE NO. <b>R-5020B</b>		SHEET NO. <b>5</b>	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		NORTH CAROLINA PROFESSIONAL SEAL 034375	
NORTH CAROLINA PROFESSIONAL SEAL 034375		NORTH CAROLINA PROFESSIONAL SEAL 26971	
2/23/2021		2/23/2021	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>			
KCI		SUNGATE DESIGN GROUP, P.A.	
Engineers • Planners • Scientists • Construction Managers 4505 Falls of Neuse Road, Suite 400 Raleigh, NC 27609-0270 Phone (919) 783-9214 • Fax (919) 783-9266		800 JONES FRANKLIN ROAD RALEIGH, NORTH CAROLINA 27606 TEL (919) 859-2243 FAX (919) 859-6258 ENG. FIRM LICENSE NO. C-460	



MATCHLINE -L- STA. 180 + 00 SEE SHEET 4

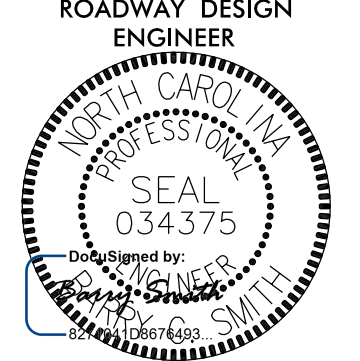
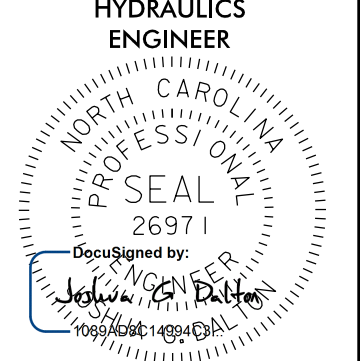

MATCHLINE -L- STA. 193 + 75 SEE SHEET 6

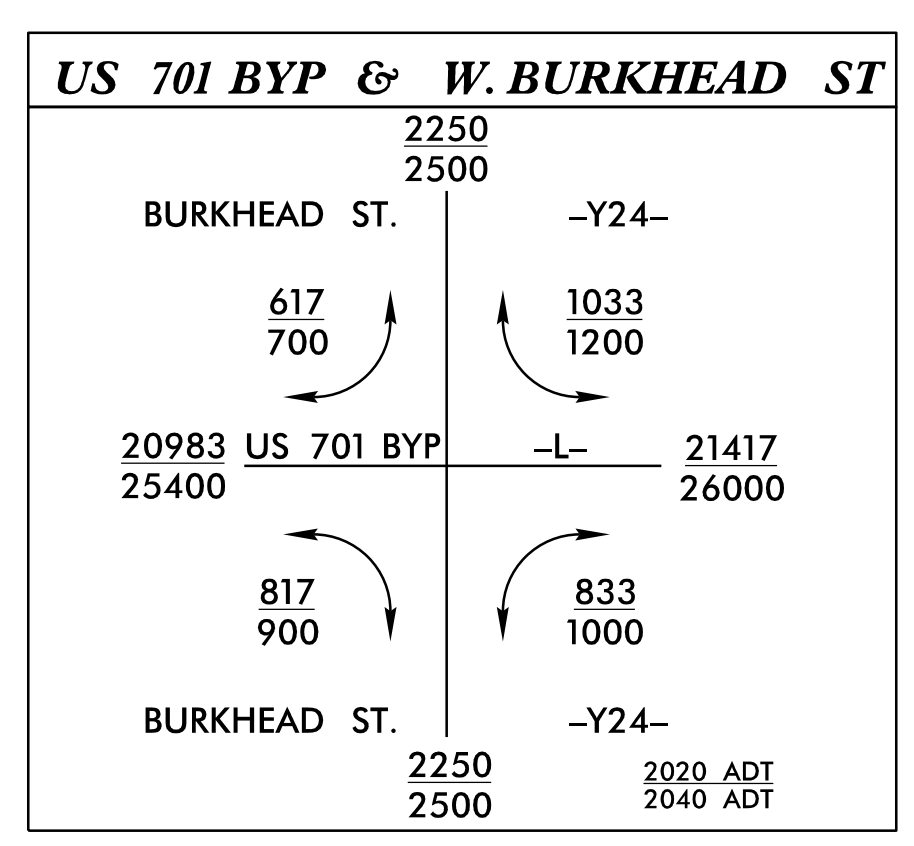


★ PROPOSED SIGNAL

FOR -L- PROFILE, SEE SHEETS 15 & 16  
 FOR -Y18-, -Y21-, -Y22- PROFILE, SEE SHEET 20 & 21  
 FOR RIGHT-OF-WAY DATA, SEE SHEET RW-5  
 FOR -Y18-, -Y19-, -Y21-, -Y22- INTERSECTION DETAILS, SEE SHEET 2B-3

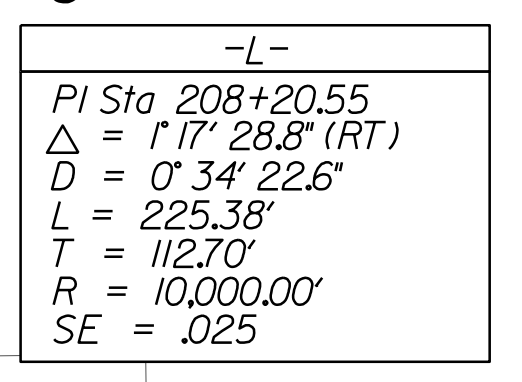
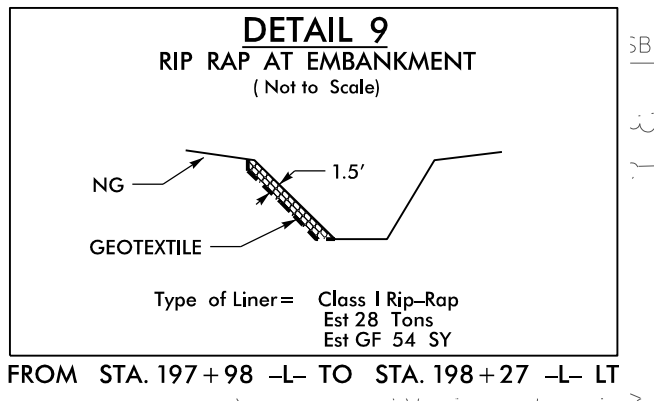
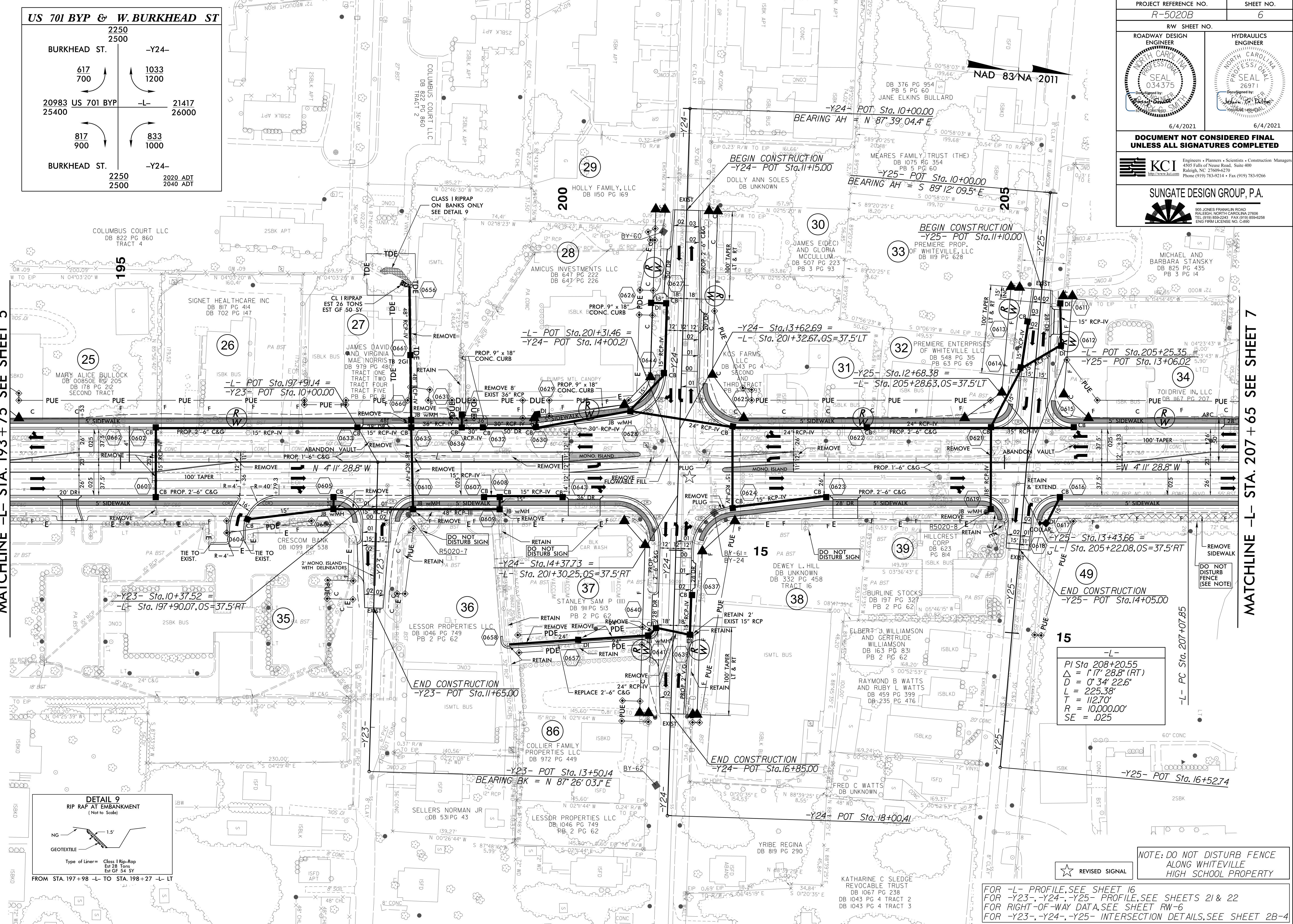
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PROJECT REFERENCE NO. <b>R-5020B</b>		SHEET NO. <b>6</b>
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER
		
6/4/2021		6/4/2021
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>		
		
<b>SUNGATE DESIGN GROUP, P.A.</b> <small>800 JONES FRANKLIN ROAD      RALEIGH, NORTH CAROLINA 27606      TEL (919) 859-2243 FAX (919) 859-6258      ENG FROM LICENSE NO. C-490</small>		



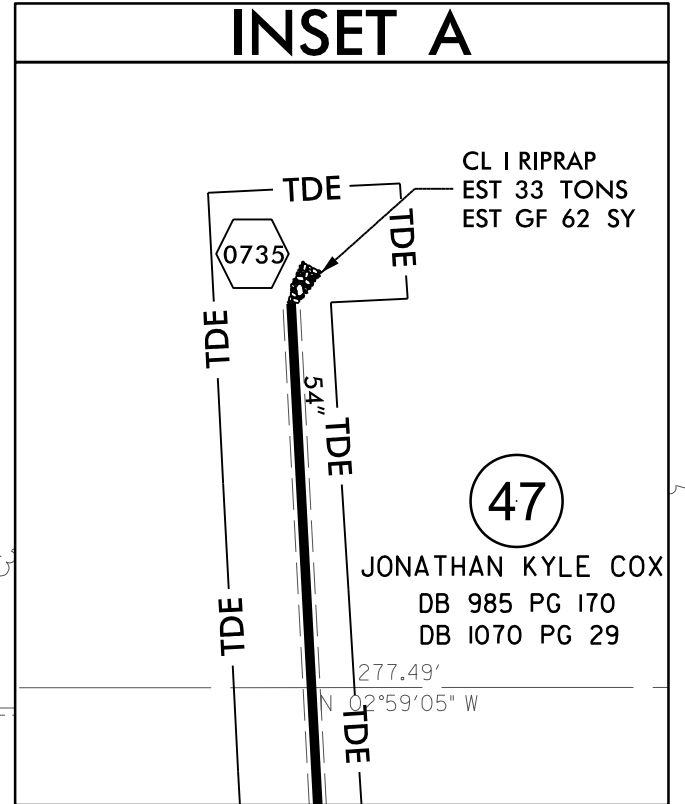
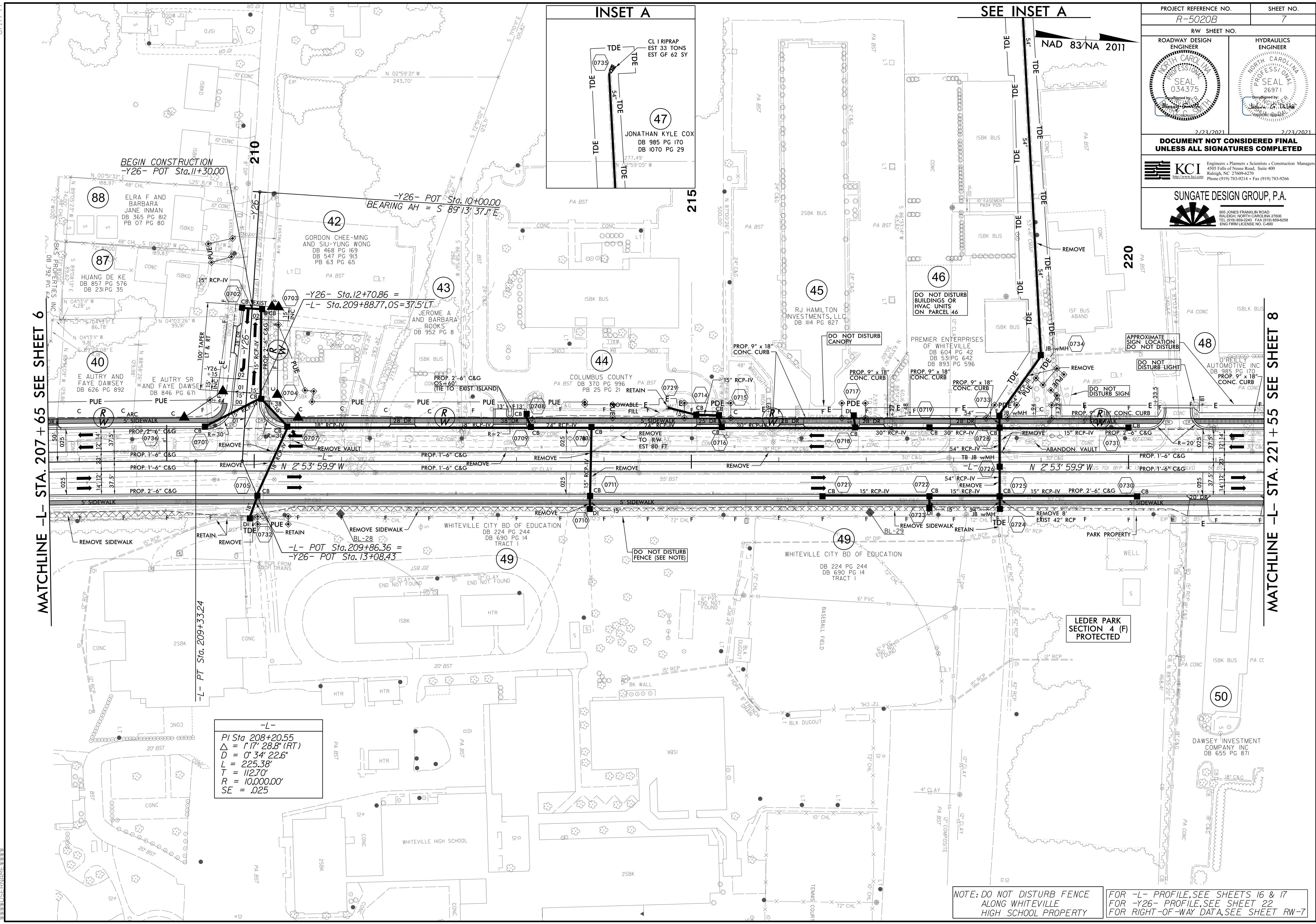
MATCHLINE -L- STA. 193 + 75 SEE SHEET 5

MATCHLINE -L- STA. 207 + 65 SEE SHEET 7



04-JUN-2021 08:22 C:\Users\jrd\OneDrive\Documents\Roadway\Proj\R-5020B\Roadway\Redu\_psh\_6.dgn

PROJECT REFERENCE NO. <i>R-5020B</i>		SHEET NO. 7
RW SHEET NO.		HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	NORTH CAROLINA PROFESSIONAL SEAL 034375	
2/23/2021		
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>		
KCI	Engineers • Planners • Scientists • Construction Managers 4505 Falls of Neuse Road, Suite 400 Raleigh, NC 27609-6270 Phone (919) 783-9214 • Fax (919) 783-9266	
SUNGATE DESIGN GROUP, P.A. 800 JONES FRANKLIN ROAD RALEIGH, NORTH CAROLINA 27606 TEL (919) 859-2243 FAX (919) 859-6258 ENG. FIRM LICENSE NO. C4600		



SEE INSET A  
NAD 83/NA 2011

MATCHLINE -L- STA. 207 + 65 SEE SHEET 6

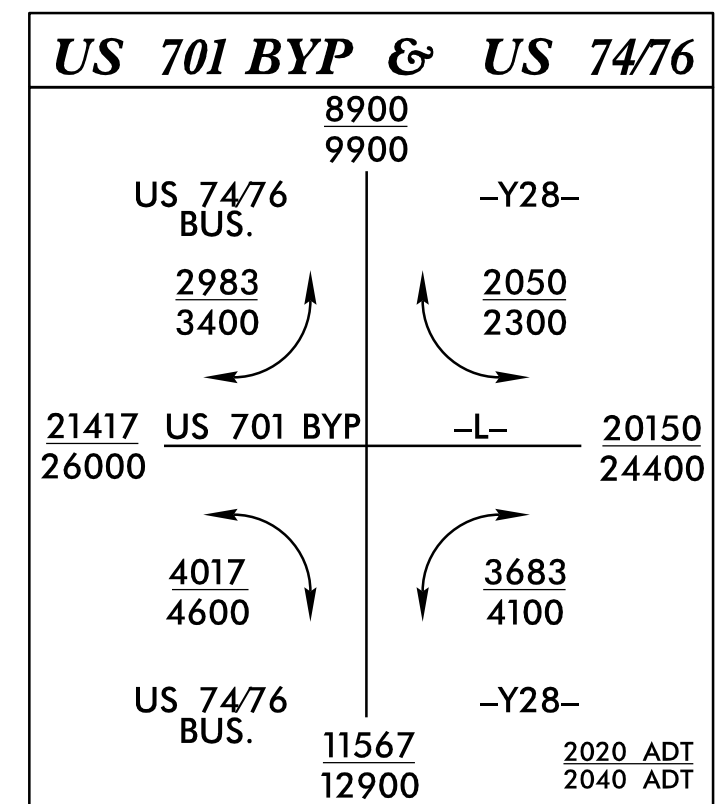
MATCHLINE -L- STA. 221 + 55 SEE SHEET 8

-L-  
PI Sta. 208+20.55  
Δ = 1°17'28.8" (RT)  
D = 0°34'22.6"  
L = 225.38'  
T = 112.70'  
R = 10,000.00'  
SE = .025

NOTE: DO NOT DISTURB FENCE ALONG WHITEVILLE HIGH SCHOOL PROPERTY  
FOR -L- PROFILE, SEE SHEETS 16 & 17  
FOR -Y26- PROFILE, SEE SHEET 22  
FOR RIGHT-OF-WAY DATA, SEE SHEET RW-7

3/23/2021 16:50:59 NCDDOT R-5020B US 701 Wrdmtrg\Roadway\Proc\N-5020B\_Rdw\_psh\_7.dgn

PROJECT REFERENCE NO. R-5020B	SHEET NO. 8
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
6/4/2021	6/4/2021
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	
SUNGATE DESIGN GROUP, P.A.	



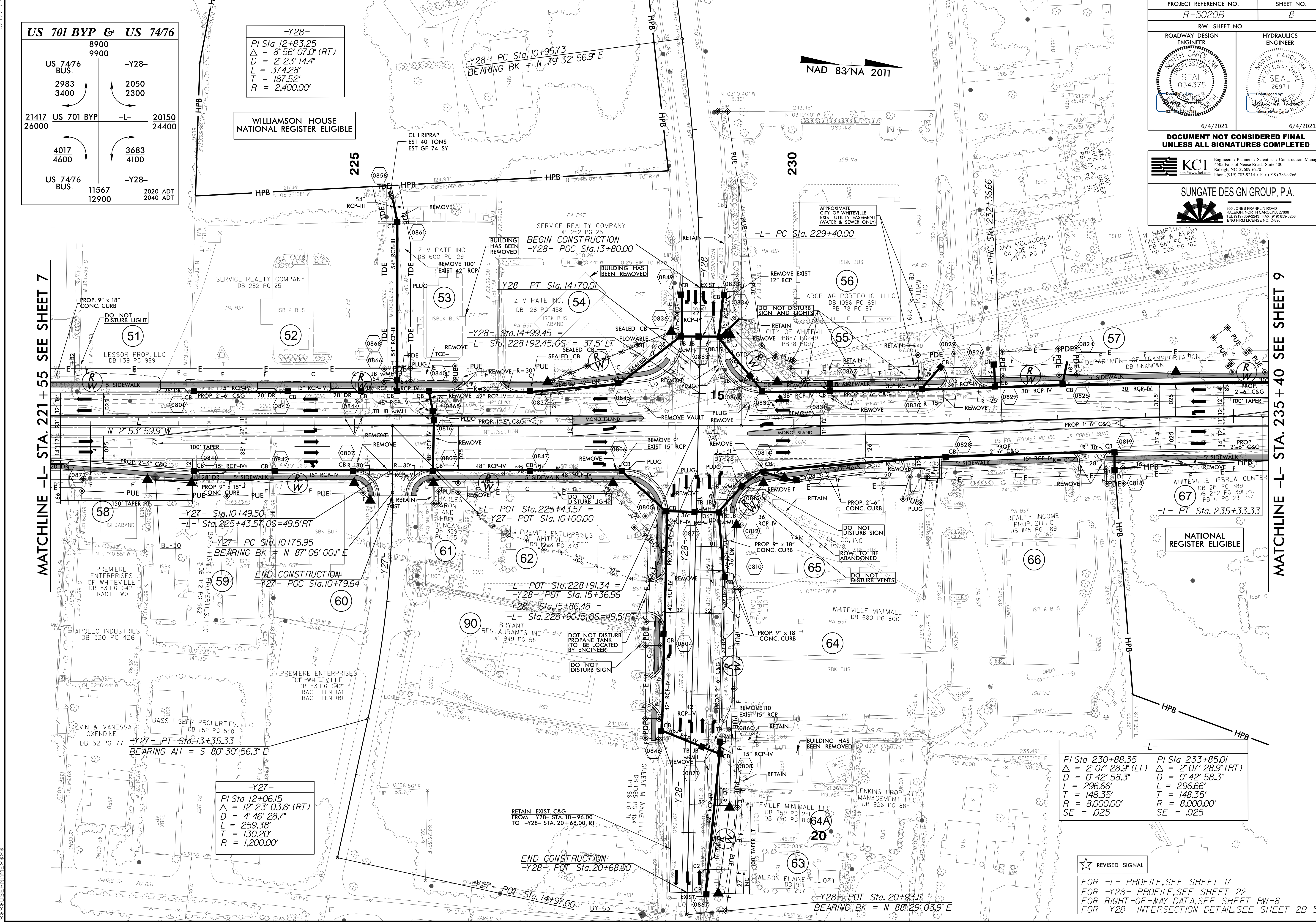
-Y28-  
 PI Sta 12+83.25  
 $\Delta = 8^{\circ}56'07.0''$  (RT)  
 $D = 2^{\circ}23'14.4''$   
 $L = 374.28'$   
 $T = 187.52'$   
 $R = 2,400.00'$

WILLIAMSON HOUSE  
 NATIONAL REGISTER ELIGIBLE

NAD 83/NA 2011

MATCHLINE -L- STA. 221+55 SEE SHEET 7

MATCHLINE -L- STA. 235+40 SEE SHEET 9



-Y27-  
 PI Sta 12+06.15  
 $\Delta = 12^{\circ}23'03.6''$  (RT)  
 $D = 4^{\circ}46'28.7''$   
 $L = 259.38'$   
 $T = 130.20'$   
 $R = 1,200.00'$

-L-  
 PI Sta 230+88.35  $\Delta = 2^{\circ}07'28.9''$  (LT)  
 $D = 0^{\circ}42'58.3''$   
 $L = 296.66'$   
 $T = 148.35'$   
 $R = 8,000.00'$   
 $SE = .025$

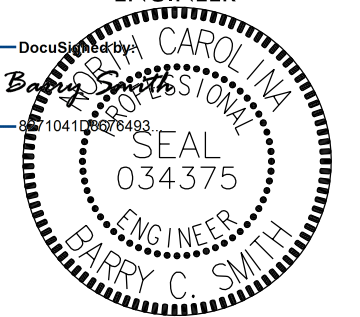
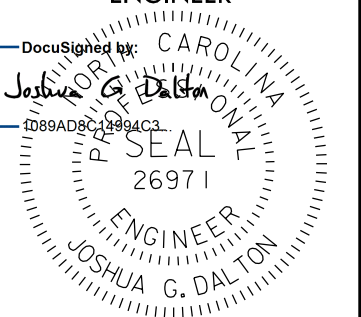


-L-  
 PI Sta 233+85.01  $\Delta = 2^{\circ}07'28.9''$  (RT)  
 $D = 0^{\circ}42'58.3''$   
 $L = 296.66'$   
 $T = 148.35'$   
 $R = 8,000.00'$   
 $SE = .025$

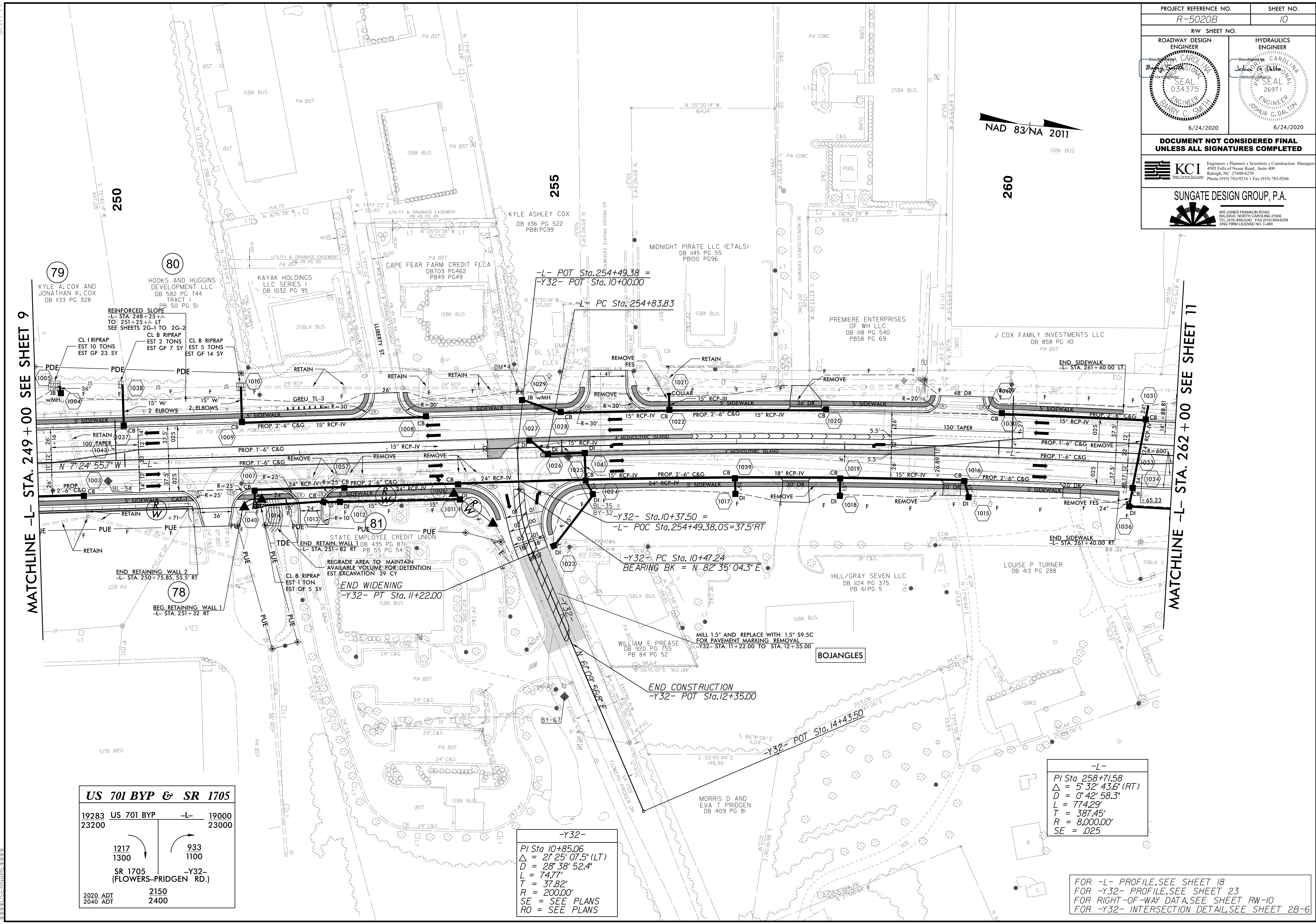
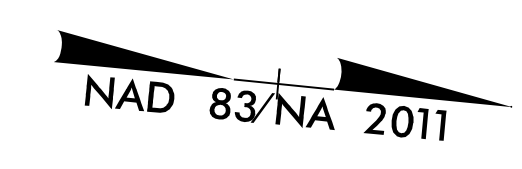
★ REVISED SIGNAL

FOR -L- PROFILE, SEE SHEET 17  
 FOR -Y28- PROFILE, SEE SHEET 22  
 FOR RIGHT-OF-WAY DATA, SEE SHEET RW-8  
 FOR -Y28- INTERSECTION DETAIL, SEE SHEET 2B-5

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PROJECT REFERENCE NO. <b>R-5020B</b>		SHEET NO. <b>10</b>
RW SHEET NO.		
ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER 	
6/24/2020	6/24/2020	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		
 KCI Engineers • Planners • Scientists • Construction Managers 4505 Falls of Neuse Road, Suite 400 Raleigh, NC 27609-6270 Phone (919) 783-9214 • Fax (919) 783-9266		
 SUNGATE DESIGN GROUP, P.A. 800 JONES FRANKLIN ROAD RALEIGH, NORTH CAROLINA 27606 TEL (919) 859-2243 FAX (919) 859-6258 ENG FIRM LICENSE NO. C-400		



MATCHLINE -L- STA. 249 + 00 SEE SHEET 9

MATCHLINE -L- STA. 262 + 00 SEE SHEET 11

US 701 BYP & SR 1705			
19283	US 701 BYP	-L-	19000
23200			23000
1217		933	
1300		1100	
SR 1705		-Y32-	
(FLOWERS-PRIDGEN RD.)			
2020 ADT	2150		
2040 ADT	2400		


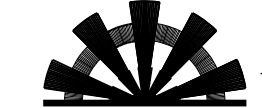
-Y32-  
 PI Sta 10+85.06  
 $\Delta = 2^{\circ} 25' 07.5" (LT)$   
 $D = 28^{\circ} 38' 52.4"$   
 $L = 74.7'$   
 $T = 37.82'$   
 $R = 200.00'$   
 SE = SEE PLANS  
 RO = SEE PLANS

-L-  
 PI Sta 258+71.58  
 $\Delta = 5^{\circ} 32' 43.6" (RT)$   
 $D = 0^{\circ} 42' 58.3"$   
 $L = 774.29'$   
 $T = 387.45'$   
 $R = 8,000.00'$   
 SE = .025

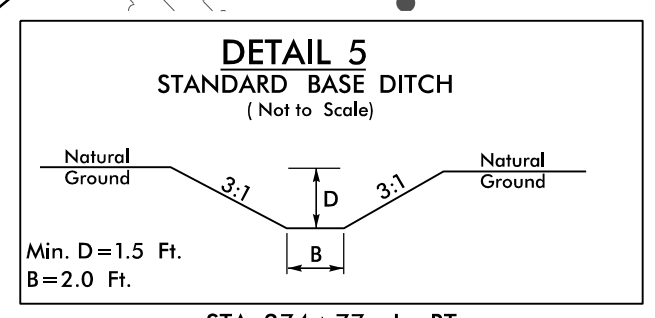
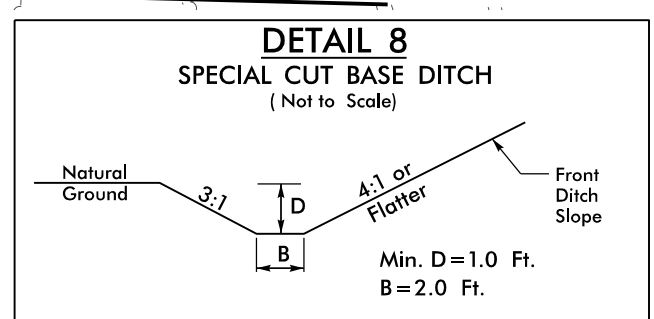
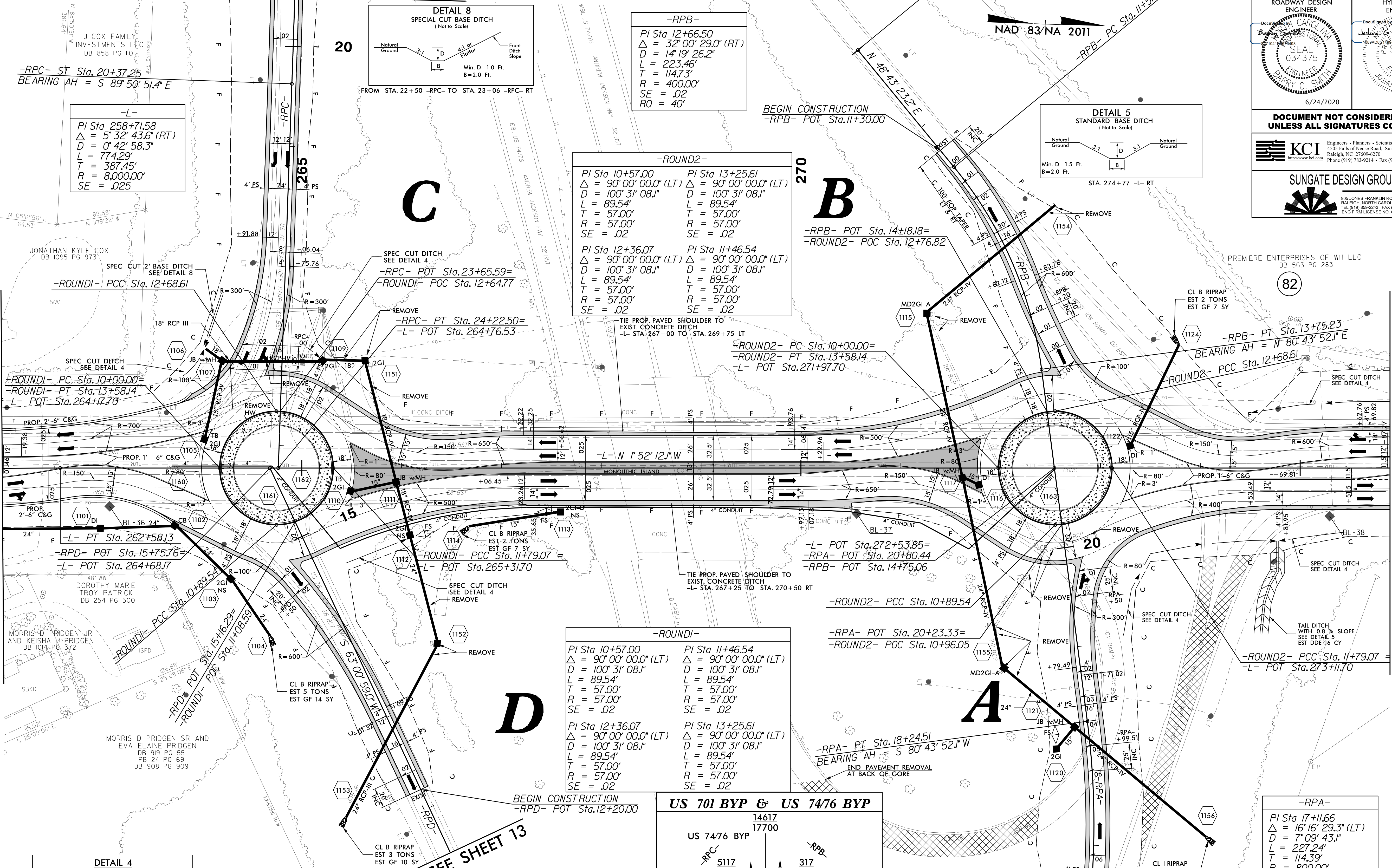
FOR -L- PROFILE, SEE SHEET 18  
 FOR -Y32- PROFILE, SEE SHEET 23  
 FOR RIGHT-OF-WAY DATA, SEE SHEET RW-10  
 FOR -Y32- INTERSECTION DETAIL, SEE SHEET 2B-6

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PROJECT REFERENCE NO. <b>R-5020B</b>		SHEET NO. <b>11</b>	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		SEAL 034375	
6/24/2020		6/24/2020	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
 KCI Engineers • Planners • Scientists • Construction Managers 4505 Falls of Neuse Road, Suite 400 Raleigh, NC 27609-6270 Phone (919) 783-9214 • Fax (919) 783-9266			
 <b>SUNGATE DESIGN GROUP, P.A.</b> 800 JONES FRANKLIN ROAD RALEIGH, NORTH CAROLINA 27606 TEL (919) 859-2243 FAX (919) 859-6258 ENG. FIRM LICENSE NO. C-460			

**MATCHLINE -RPC- STA. 19+50 SEE SHEET 14**

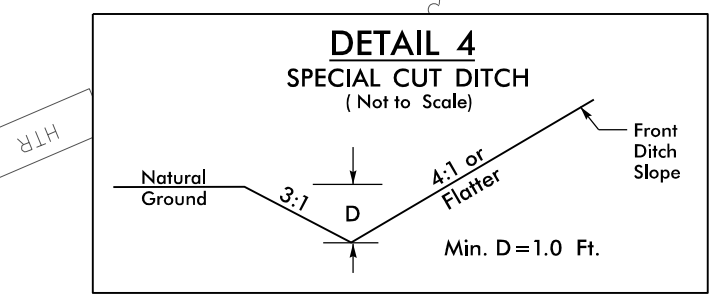
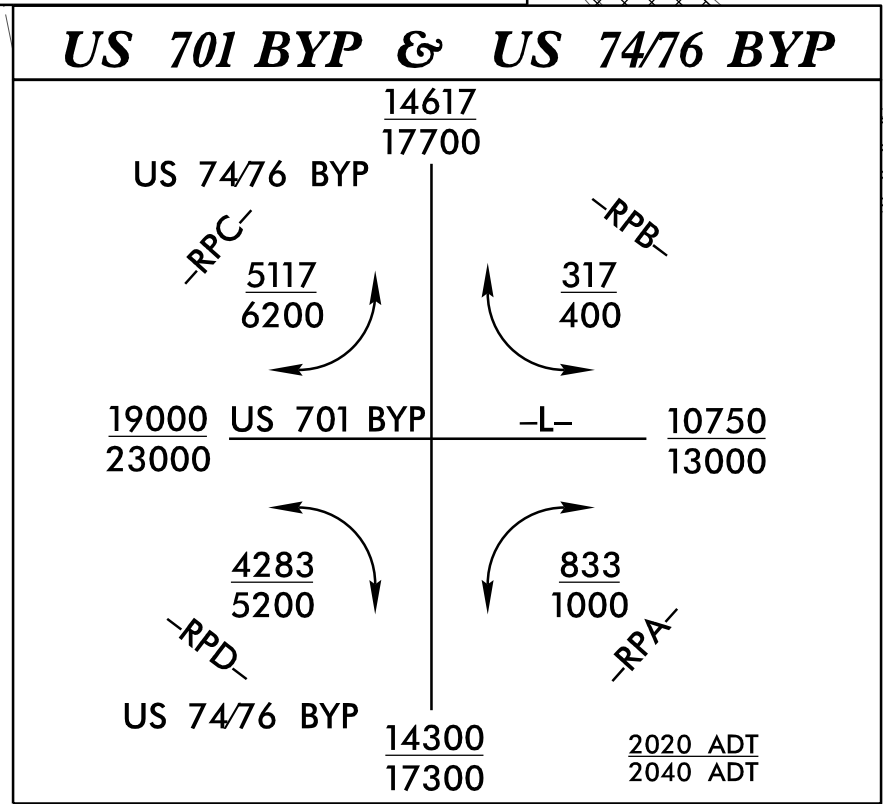


**-RPB-**  
 PI Sta 12+66.50  
 $\Delta = 32^{\circ} 00' 29.0''$  (RT)  
 $D = 14^{\circ} 19' 26.2''$   
 $L = 223.46'$   
 $T = 114.73'$   
 $R = 400.00'$   
 $SE = .02$   
 $RO = 40'$

**-ROUND2-**  
 PI Sta 10+57.00      PI Sta 13+25.61  
 $\Delta = 90^{\circ} 00' 00.0''$  (LT)       $\Delta = 90^{\circ} 00' 00.0''$  (LT)  
 $D = 100^{\circ} 31' 08.1''$        $D = 100^{\circ} 31' 08.1''$   
 $L = 89.54'$        $L = 89.54'$   
 $T = 57.00'$        $T = 57.00'$   
 $R = 57.00'$        $R = 57.00'$   
 $SE = .02$        $SE = .02$

**-ROUND1-**  
 PI Sta 10+57.00      PI Sta 11+46.54  
 $\Delta = 90^{\circ} 00' 00.0''$  (LT)       $\Delta = 90^{\circ} 00' 00.0''$  (LT)  
 $D = 100^{\circ} 31' 08.1''$        $D = 100^{\circ} 31' 08.1''$   
 $L = 89.54'$        $L = 89.54'$   
 $T = 57.00'$        $T = 57.00'$   
 $R = 57.00'$        $R = 57.00'$   
 $SE = .02$        $SE = .02$

**-RPA-**  
 PI Sta 17+11.66  
 $\Delta = 16^{\circ} 16' 29.3''$  (LT)  
 $D = 7^{\circ} 09' 43.1''$   
 $L = 227.24'$   
 $T = 114.39'$   
 $R = 800.00'$   
 $SE = .06$   
 $RO = 150'$



FROM STA. 273+50 -L- TO STA. 275+50 -L- RT  
 FROM STA. 274+50 -L- TO STA. 275+50 -L- RT  
 FROM STA. 11+25 -ROUND1- TO STA. 11+52 -ROUND1- RT  
 FROM STA. 12+46 -ROUND1- TO STA. 12+55 -ROUND1- RT  
 FROM STA. 12+99 -ROUND1- TO STA. 13+14 -ROUND1- RT  
 FROM STA. 19+00 -RPA- TO STA. 19+50 -RPA- RT

FOR -L- PROFILE, SEE SHEETS 18 & 19  
 FOR -ROUND1-, -ROUND2- PROFILES, SEE SHEET 20  
 FOR -RPA-, -RPB-, -RPC-, -RPD- PROFILES, SEE SHEET 24  
 FOR ROUNDABOUT DETAILS, SEE SHEETS 2B-1 & 2B-2  
 FOR RIGHT-OF-WAY DATA, SEE SHEET RW-11

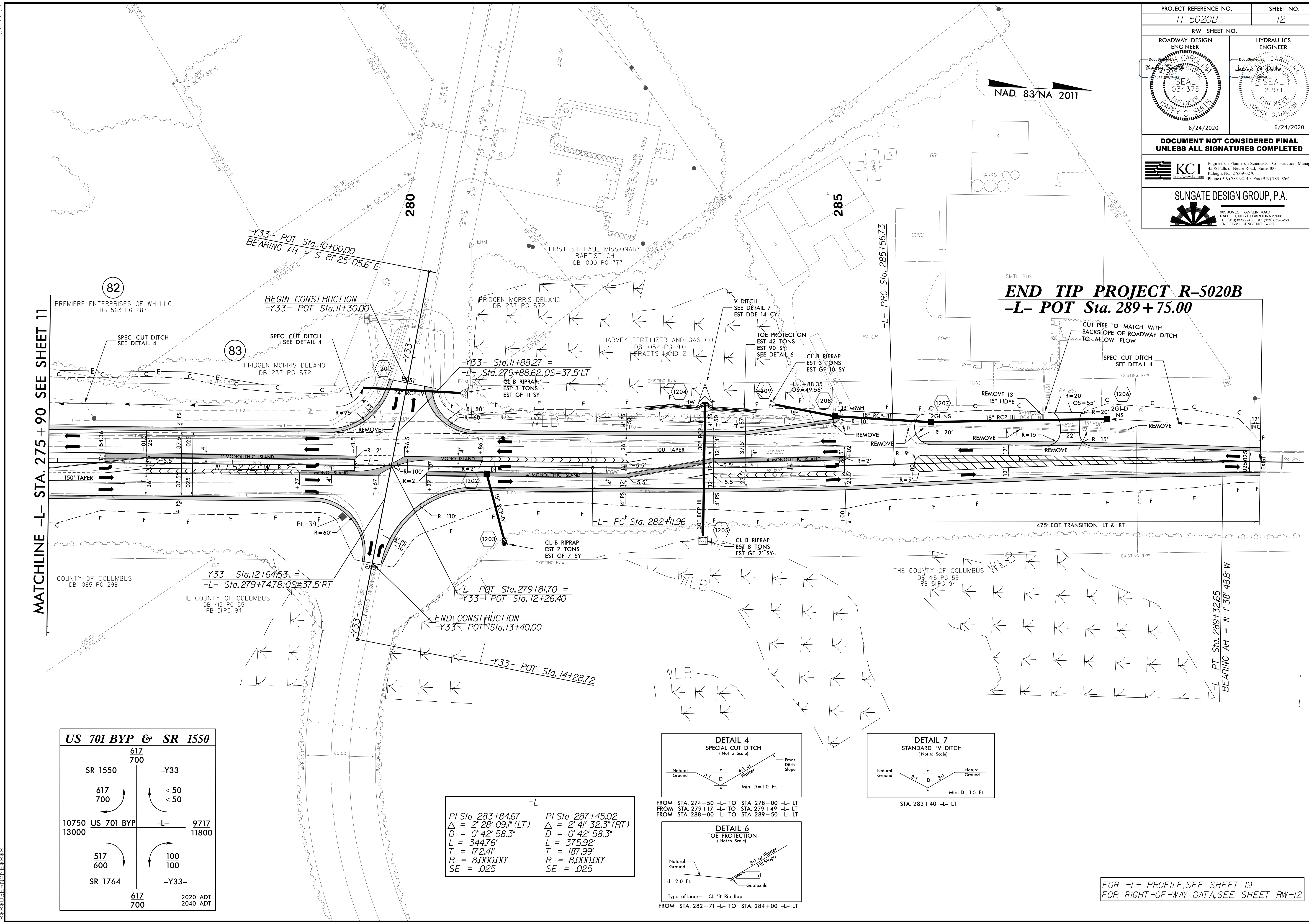
8.17.2019  
 R-5020B-11-28  
 2/4/2016  
 2:53:58 PM  
 W:\dwdm\proj\NCDOT\_R-5020B\Roadway\Proj\R-5020B-Rdw\_psh-11.dgn  
 9:00 AM  
 MORRIS D PRIDGEN SR AND EVA ELAINE PRIDGEN DB 919 PG 55  
 MORRIS O PRIDGEN JR AND KEISHA V PRIDGEN DB 1014 PG 372  
 DOROTHY MARIE TROY PATRICK DB 254 PG 500  
 JONATHAN KYLE COX DB 1095 PG 973  
 J COX FAMILY INVESTMENTS LLC DB 858 PG 100  
 PREMIERE ENTERPRISES OF WH LLC DB 563 PG 283  
 SUNGATE DESIGN GROUP, P.A.  
 KCI

**MATCHLINE -L- STA. 262+00 SEE SHEET 10**

**MATCHLINE -L- STA. 275+90 SEE SHEET 12**

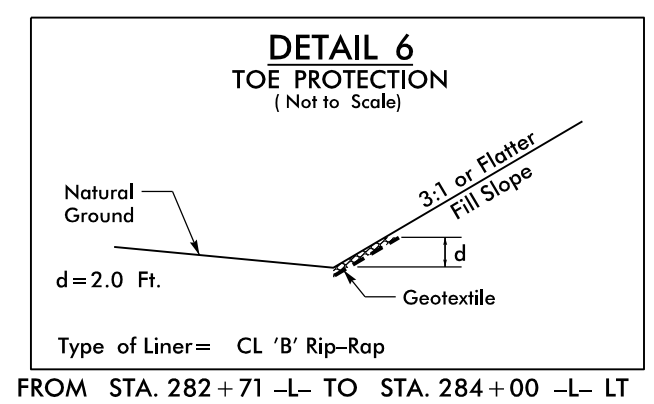
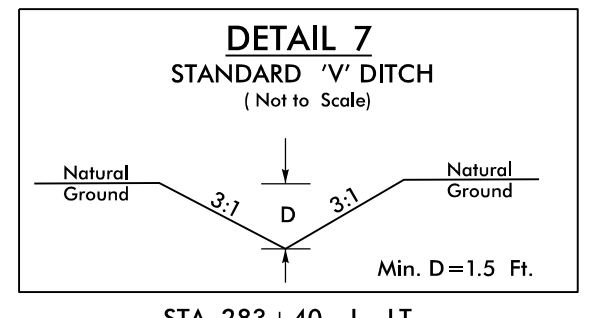
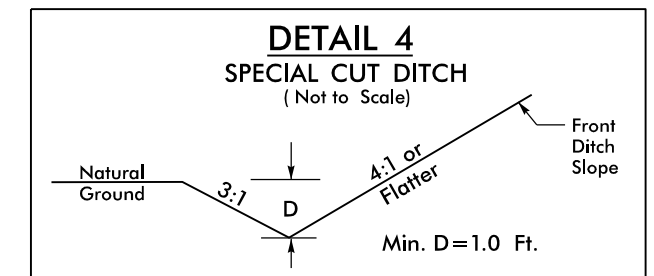
**MATCHLINE -RPD- STA. 11+50 SEE SHEET 13**

PROJECT REFERENCE NO. <i>R-5020B</i>		SHEET NO. <i>12</i>	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER <i>Barry C. Smith</i>		HYDRAULICS ENGINEER <i>Joshua G. Dalton</i>	
SEAL 034375 ENGINEER BARRY C. SMITH		SEAL 26971 ENGINEER JOSHUA G. DALTON	
6/24/2020		6/24/2020	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
KCI <small>Engineers • Planners • Scientists • Construction Managers 4505 Falls of Neuse Road, Suite 400 Raleigh, NC 27609-6270 Phone (919) 783-9214 • Fax (919) 783-9266</small>			
SUNGATE DESIGN GROUP, P.A. <small>800 JONES FRANKLIN ROAD RALEIGH, NORTH CAROLINA 27606 TEL (919) 859-2243 FAX (919) 859-6258 ENG FIRM LICENSE NO. C-460</small>			



<b>US 701 BYP &amp; SR 1550</b>			
SR 1550	617 700	-Y33-	
	617 700	< 50	< 50
10750 13000	US 701 BYP	-L-	9717 11800
517 600		100	100
SR 1764		-Y33-	
	617 700		2020 ADT 2040 ADT

-L-	
PI Sta 283+84.67	PI Sta 287+45.02
Δ = 2° 28' 09.1" (LT)	Δ = 2° 41' 32.3" (RT)
D = 0° 42' 58.3"	D = 0° 42' 58.3"
L = 344.76'	L = 375.92'
T = 172.41'	T = 187.99'
R = 8,000.00'	R = 8,000.00'
SE = .025	SE = .025

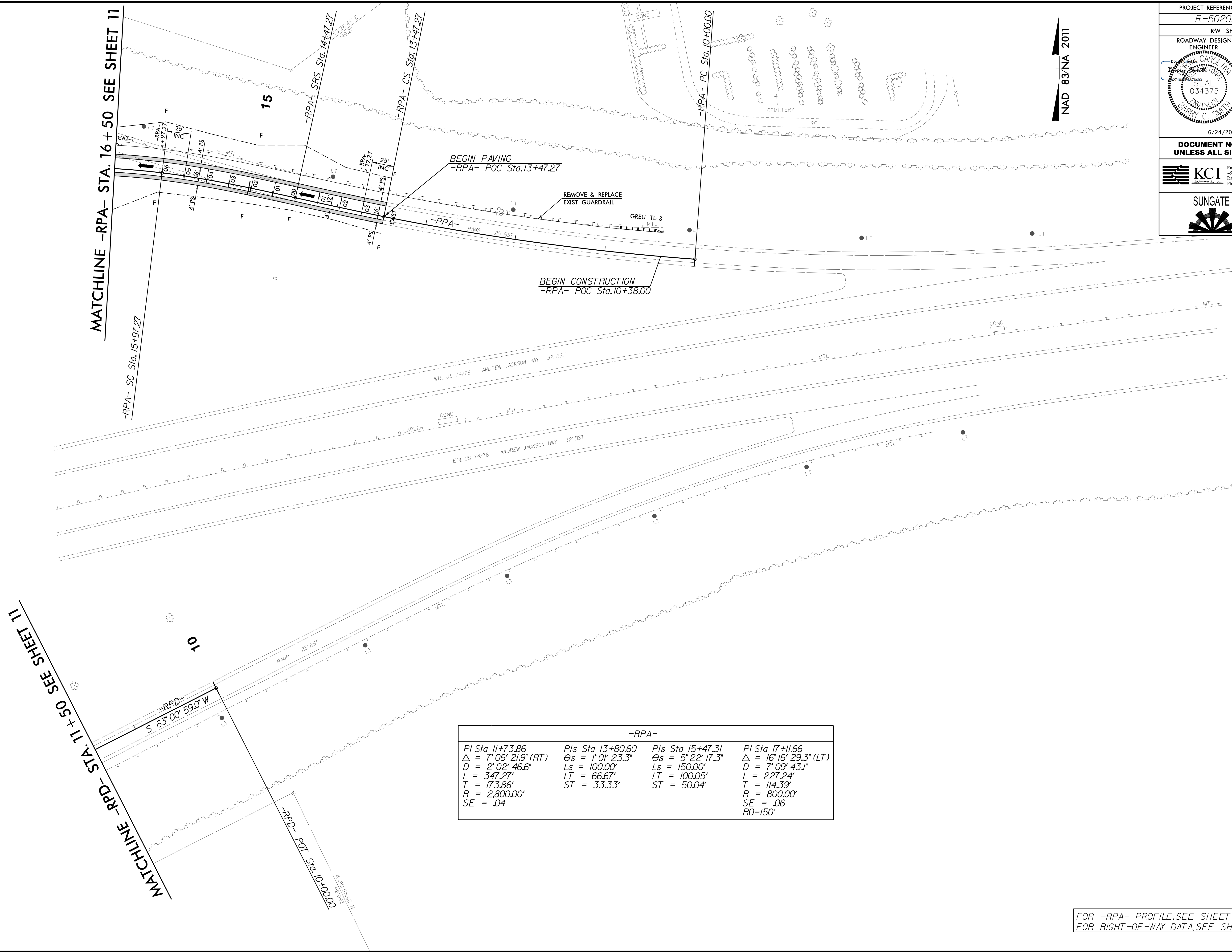


FOR -L- PROFILE, SEE SHEET 19  
FOR RIGHT-OF-WAY DATA, SEE SHEET RW-12

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 R:\\_APR\_2020\_11289\_NCDOT\_R-5020B\_12.dgn  
 R:\\_APR\_2020\_11289\_NCDOT\_R-5020B\_12.dgn  
 R:\\_APR\_2020\_11289\_NCDOT\_R-5020B\_12.dgn

8/17/99

R-5020B.dwg  
KCI  
R-5020B US 701 Wrdmtrng\Roadway\Proc\N\5020B\_Rdw\_psh\_13.dgn



PROJECT REFERENCE NO. <i>R-5020B</i>		SHEET NO. <i>13</i>	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
6/24/2020		6/24/2020	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>			
<b>SUNGATE DESIGN GROUP, P.A.</b> <small>800 JONES FRANKLIN ROAD RALEIGH, NORTH CAROLINA 27606 TEL (919) 859-2243 FAX (919) 859-6258 ENG FROM LICENSE NO. C-400</small>			

-RPA-			
<i>PI Sta 11+73.86</i>	<i>Pls Sta 13+80.60</i>	<i>Pls Sta 15+47.31</i>	<i>PI Sta 17+11.66</i>
$\Delta = 7^{\circ} 06' 21.9" (RT)$	$\Theta_s = 1^{\circ} 01' 23.3"$	$\Theta_s = 5^{\circ} 22' 17.3"$	$\Delta = 16^{\circ} 16' 29.3" (LT)$
$D = 2^{\circ} 02' 46.6"$	$L_s = 100.00'$	$L_s = 150.00'$	$D = 7^{\circ} 09' 43.1"$
$L = 347.27'$	$LT = 66.67'$	$LT = 100.05'$	$L = 227.24'$
$T = 173.86'$	$ST = 33.33'$	$ST = 50.04'$	$T = 114.39'$
$R = 2,800.00'$			$R = 800.00'$
$SE = .04$			$SE = .06$
			$RO=150'$

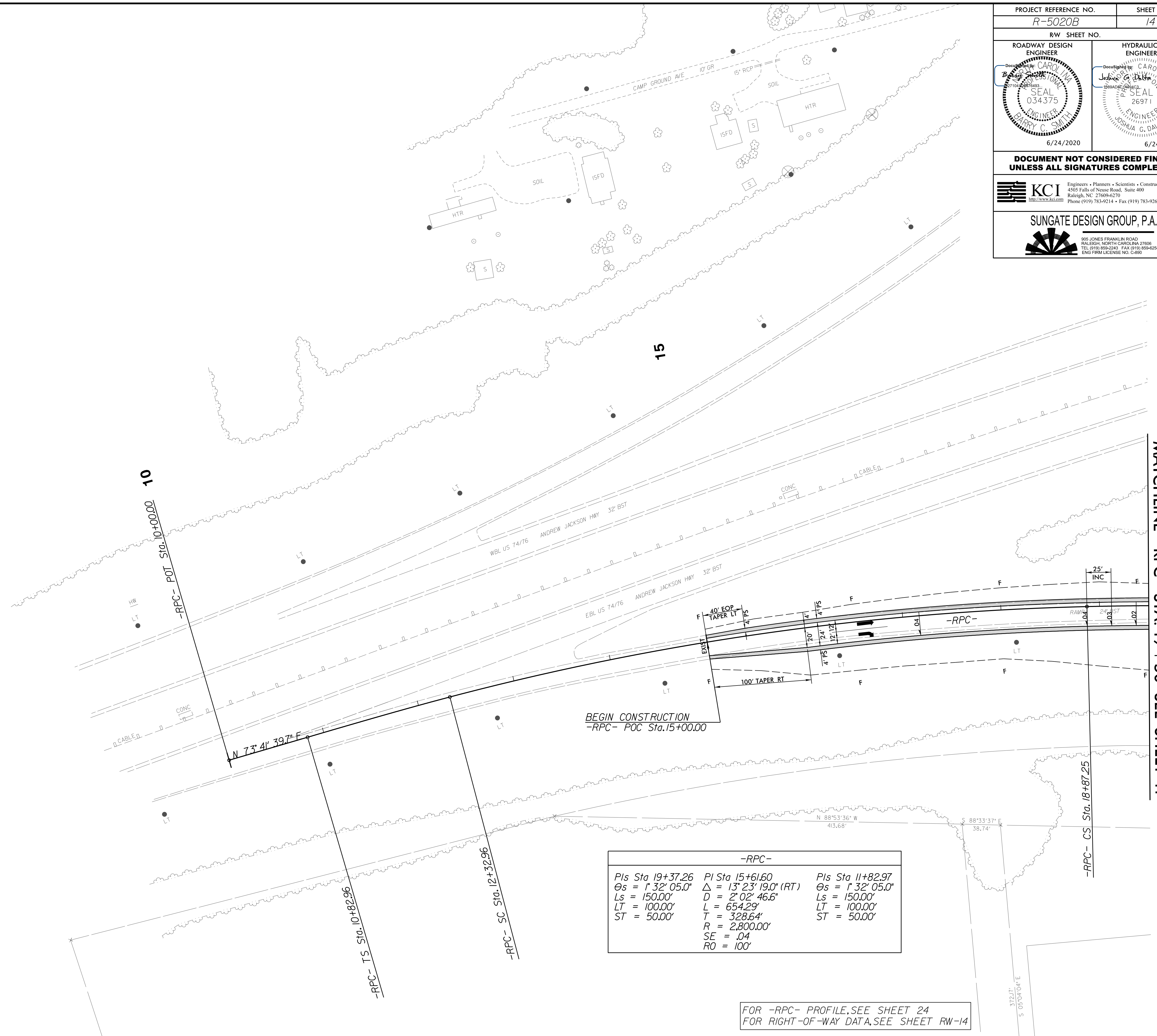
FOR -RPA- PROFILE, SEE SHEET 24  
FOR RIGHT-OF-WAY DATA, SEE SHEET RW-13

8/17/99

PR: APR 2020, I: 28  
MS: 2016, C: 1501889, NCDDT: R-5020B\_US\_701\_Wrdmtrng\Roadway\Proc\N\N\5020B\_Rdy\_psh\_14.dgn  
\$\$\$\$\$ USER NAME: \$\$\$\$\$\$

NAD 83/NA 2011

PROJECT REFERENCE NO. <i>R-5020B</i>		SHEET NO. <i>14</i>	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER <i>Darryl C. Smith</i>		HYDRAULICS ENGINEER <i>Joshua G. Dalton</i>	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
<b>SUNGATE DESIGN GROUP, P.A.</b> <small>800 JONES FRANKLIN ROAD RALEIGH, NORTH CAROLINA 27606 TEL (919) 859-2243 FAX (919) 859-6258 ENG FIRM LICENSE NO. C-490</small>			



-RPC-		
<i>PIs Sta 19+37.26</i>	<i>PI Sta 15+61.60</i>	<i>PIs Sta 11+82.97</i>
<i>θs = 1° 32' 05.0"</i>	<i>Δ = 13° 23' 19.0" (RT)</i>	<i>θs = 1° 32' 05.0"</i>
<i>Ls = 150.00'</i>	<i>D = 2° 02' 46.6"</i>	<i>Ls = 150.00'</i>
<i>LT = 100.00'</i>	<i>L = 654.29'</i>	<i>LT = 100.00'</i>
<i>ST = 50.00'</i>	<i>T = 328.64'</i>	<i>ST = 50.00'</i>
	<i>R = 2,800.00'</i>	
	<i>SE = .04</i>	
	<i>RO = 100'</i>	

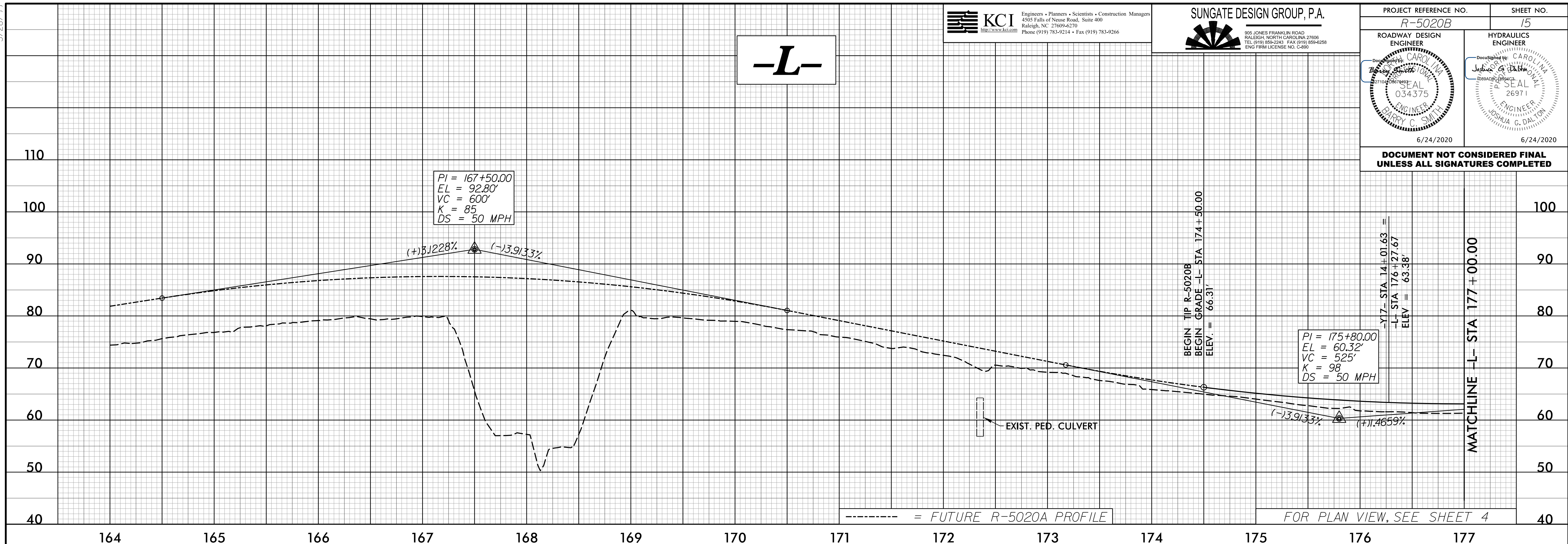
FOR -RPC- PROFILE, SEE SHEET 24  
FOR RIGHT-OF-WAY DATA, SEE SHEET RW-14

MATCHLINE -RPC- STA. 19 + 50 SEE SHEET 11

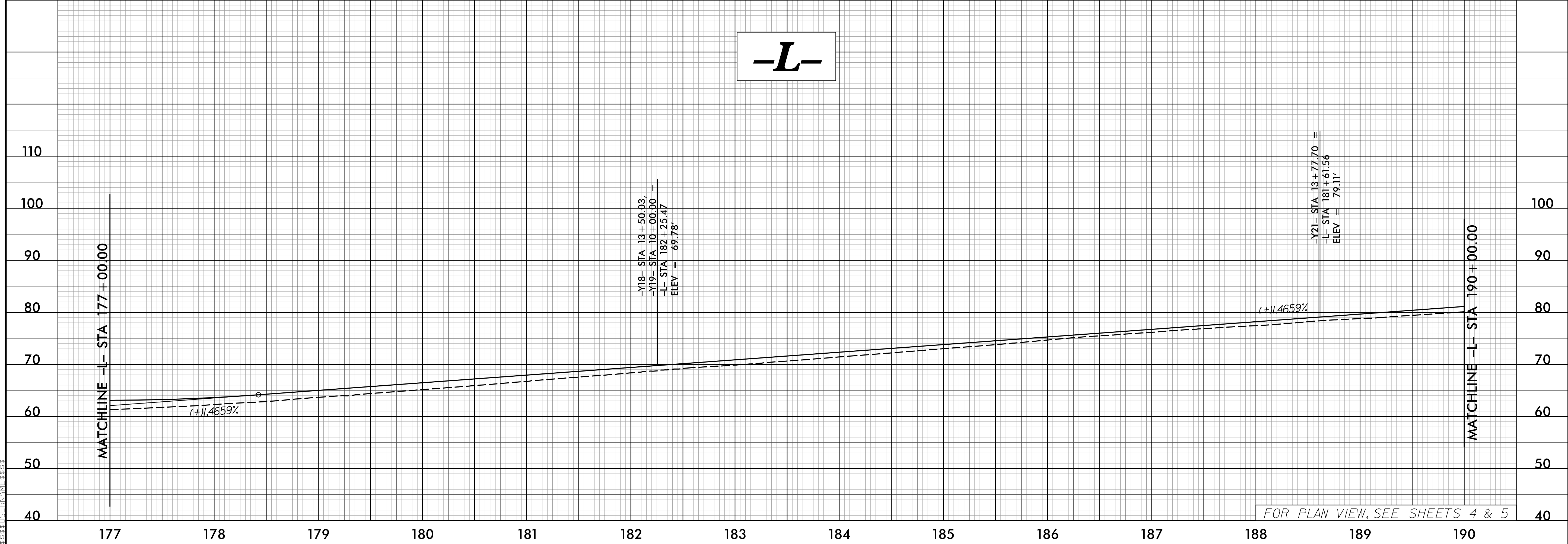
5/28/20

PROJECT REFERENCE NO. <i>R-5020B</i>		SHEET NO. 15	
ROADWAY DESIGN ENGINEER CARRIY C. SMITH 034375 6/24/2020		HYDRAULICS ENGINEER JOSHUA S. DALTON 26971 6/24/2020	

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

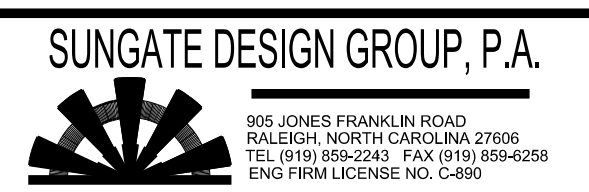
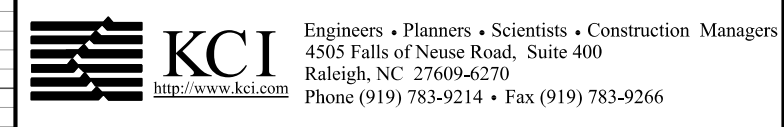


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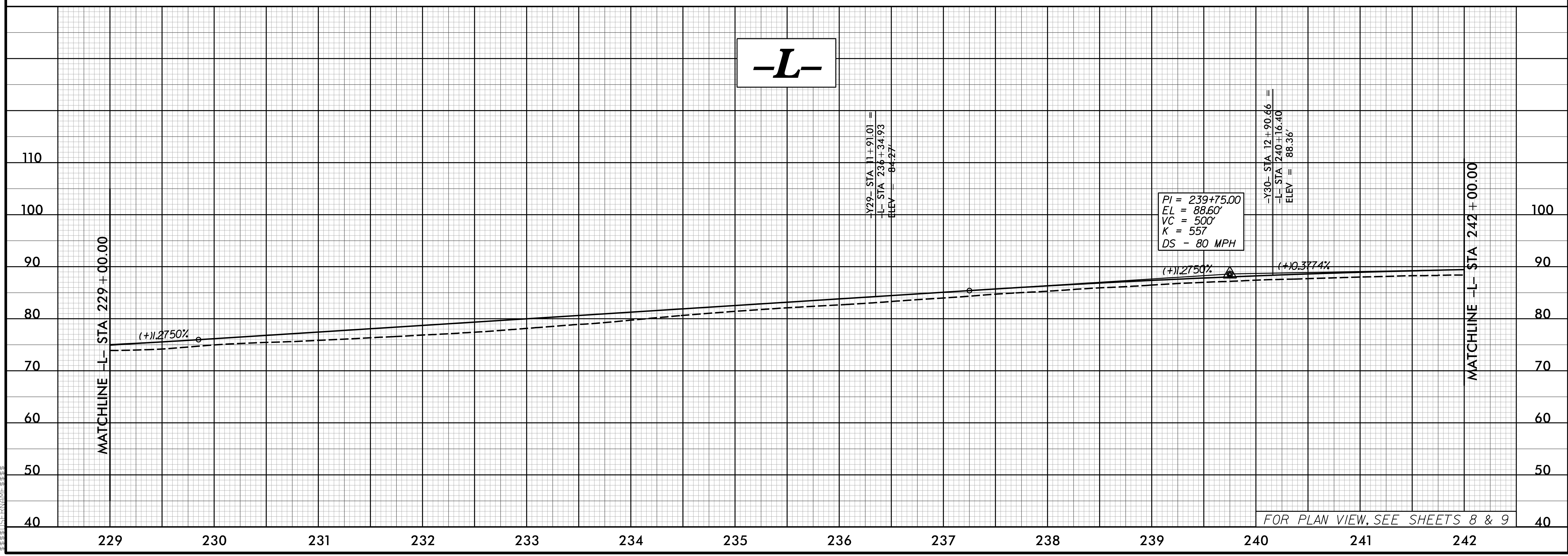
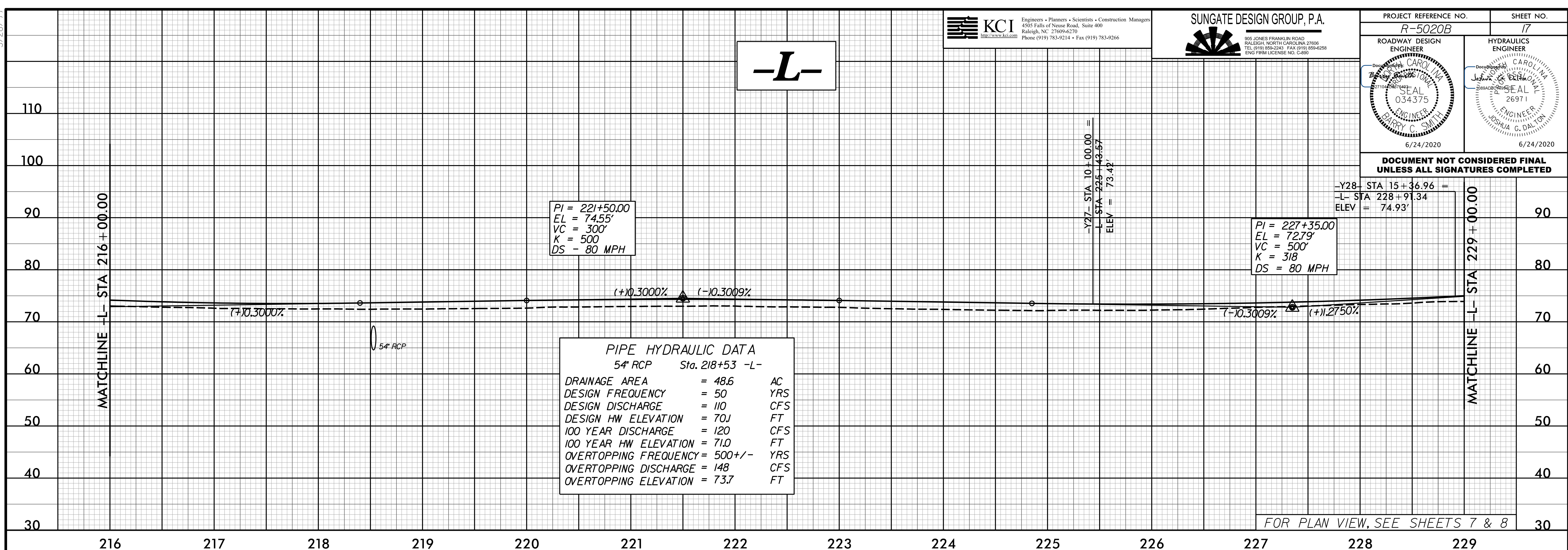


5/28/20



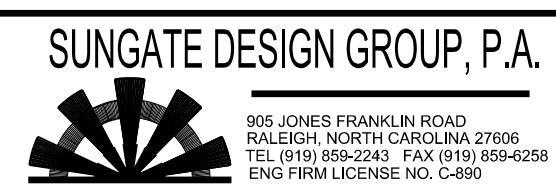
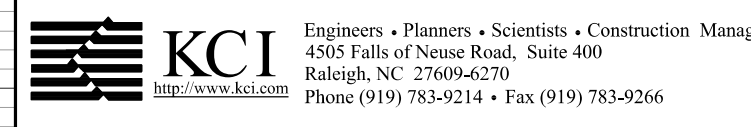
PROJECT REFERENCE NO. <b>R-5020B</b>	SHEET NO. <b>17</b>
ROADWAY DESIGN ENGINEER SEAL 034375 BARRY C. SMITH 6/24/2020	HYDRAULICS ENGINEER SEAL 26971 JOSHUA S. DALTON 6/24/2020

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



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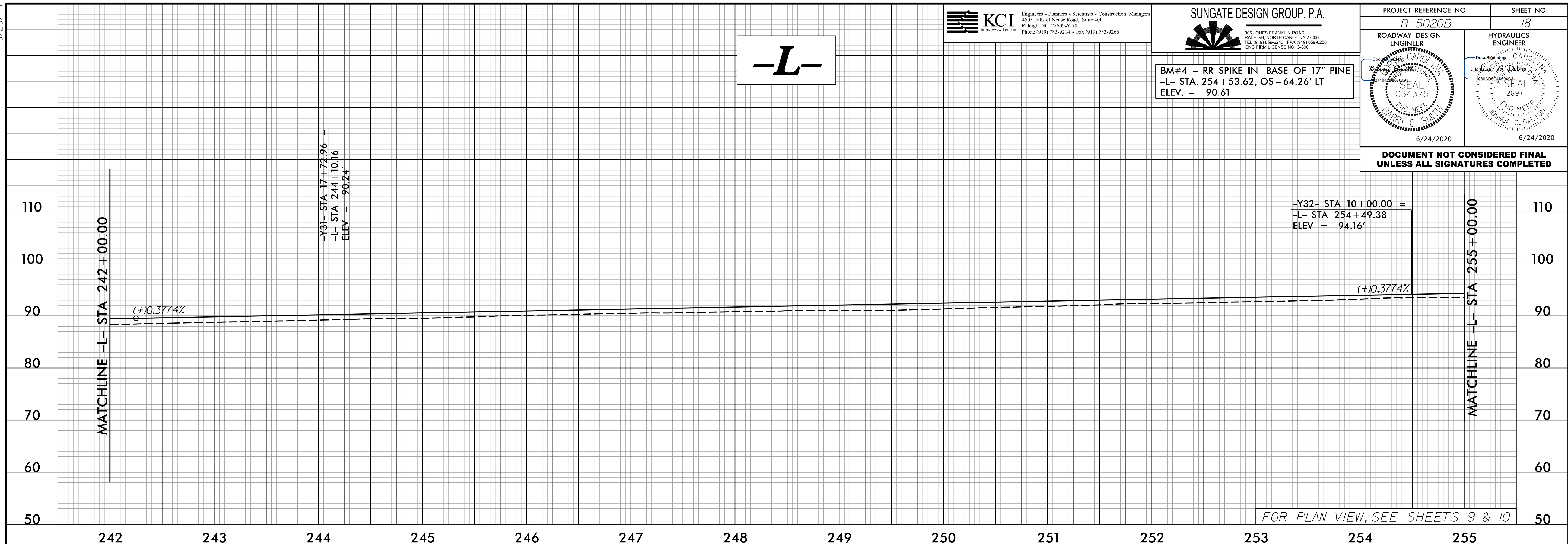
5/28/19



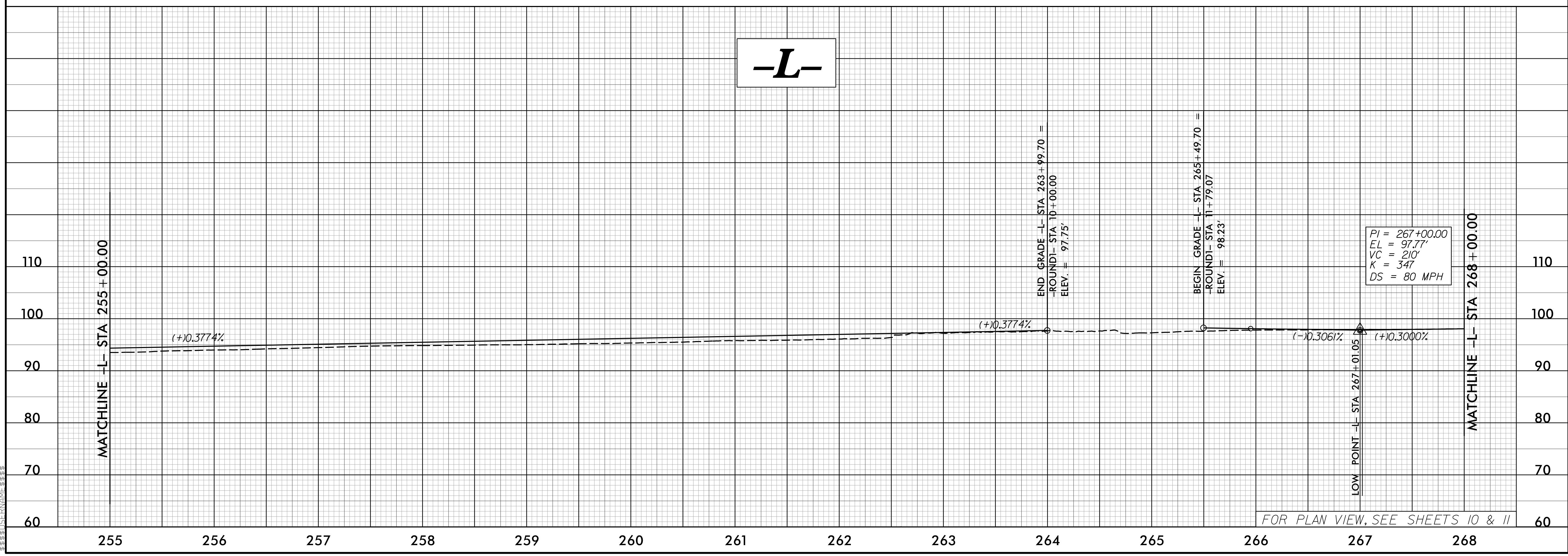
PROJECT REFERENCE NO. R-5020B	SHEET NO. 18
ROADWAY DESIGN ENGINEER BRADY C. SMITH 034375 6/24/2020	HYDRAULICS ENGINEER JOSHUA S. DALTON 26971 6/24/2020

BM#4 - RR SPIKE IN BASE OF 17" PINE  
 -L- STA. 254 + 53.62, OS = 64.26' LT  
 ELEV. = 90.61

DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED

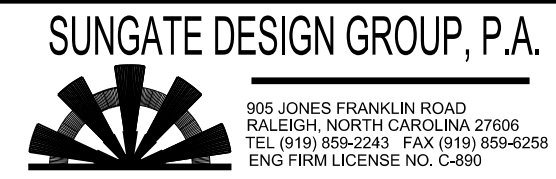
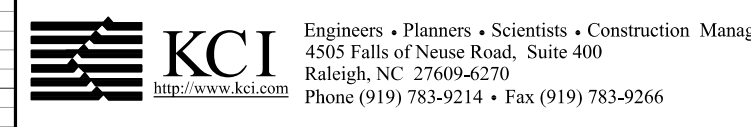


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 BRADY C. SMITH  
 034375



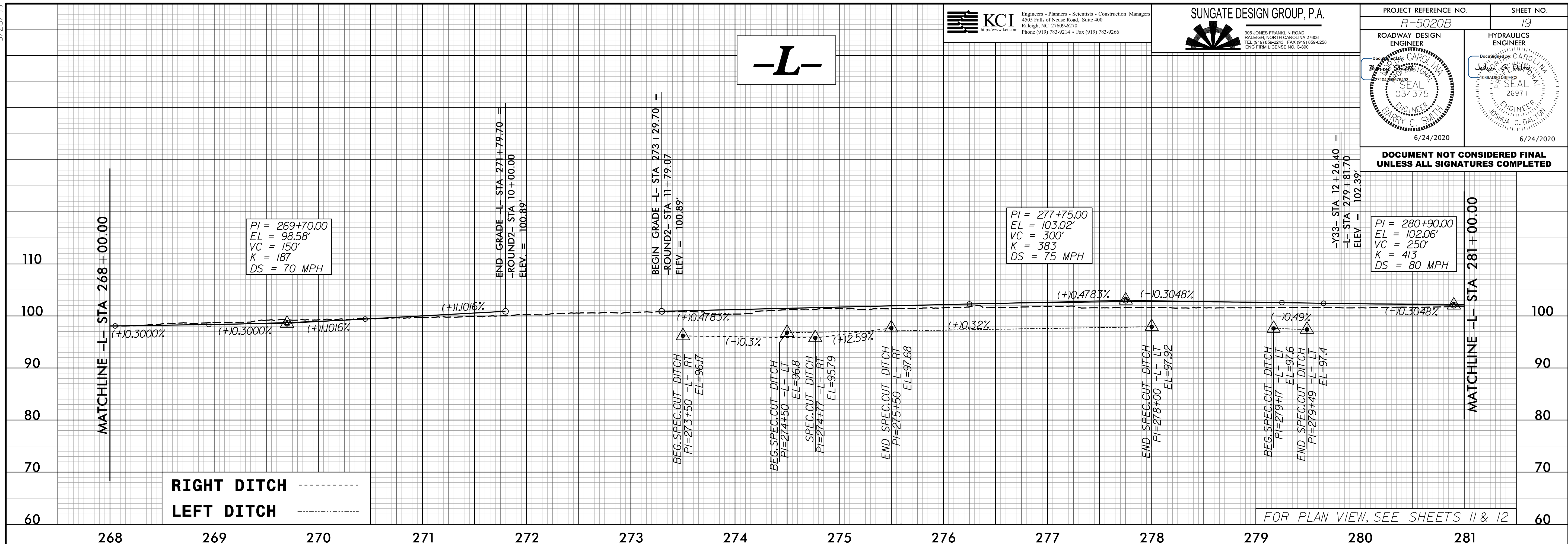


5/28/20



PROJECT REFERENCE NO. <b>R-5020B</b>	SHEET NO. <b>19</b>
ROADWAY DESIGN ENGINEER <b>BRADY C. SMITH</b> 034375 6/24/2020	HYDRAULICS ENGINEER <b>JOSHUA S. DALTON</b> 26971 6/24/2020

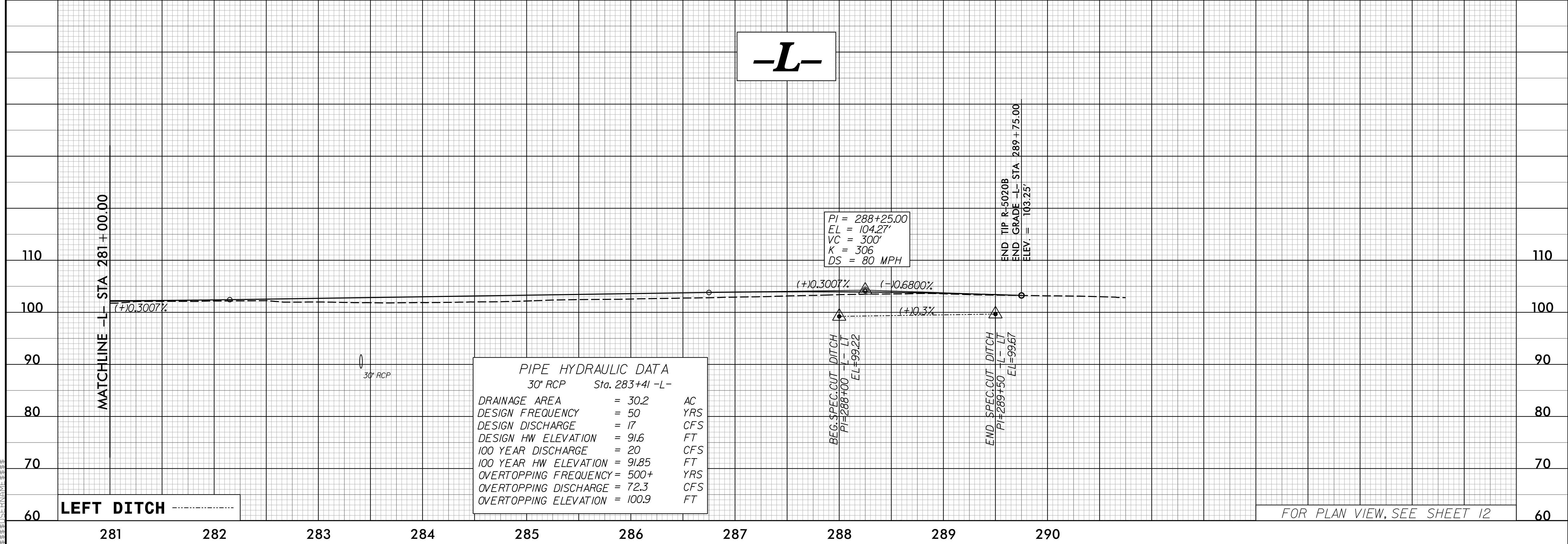
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RIGHT DITCH -----  
LEFT DITCH -----

FOR PLAN VIEW, SEE SHEETS 11 & 12

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**PIPE HYDRAULIC DATA**  
30" RCP Sta. 283+41 -L-

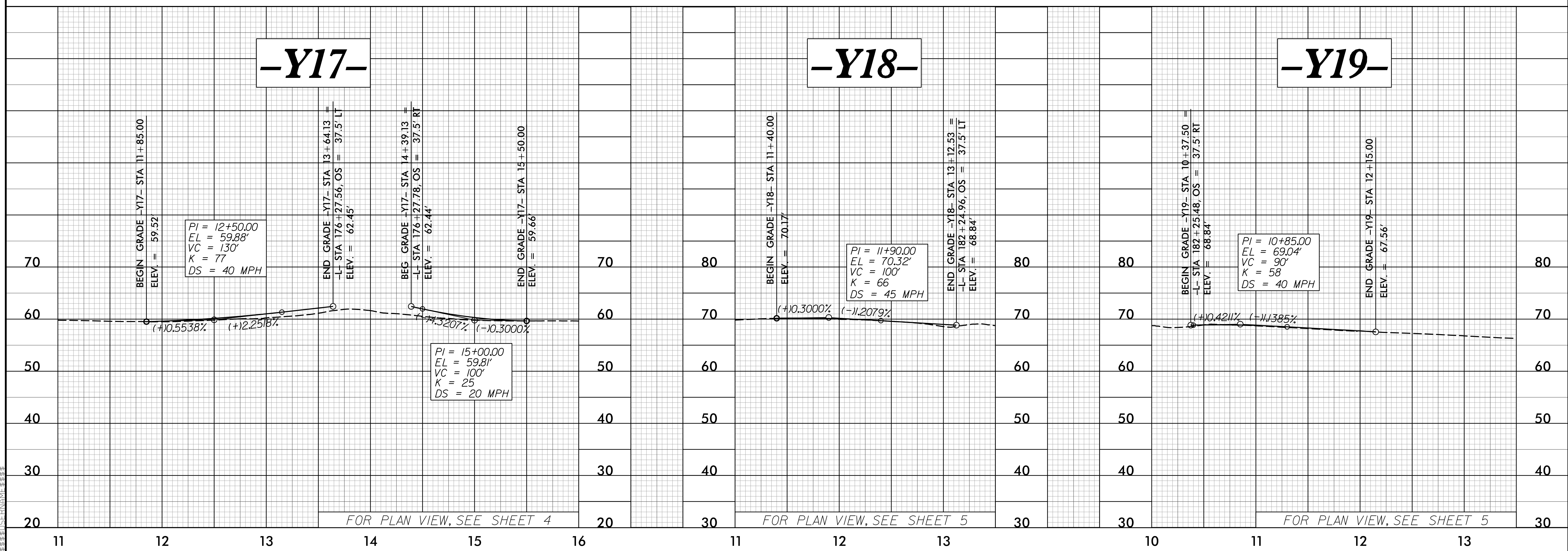
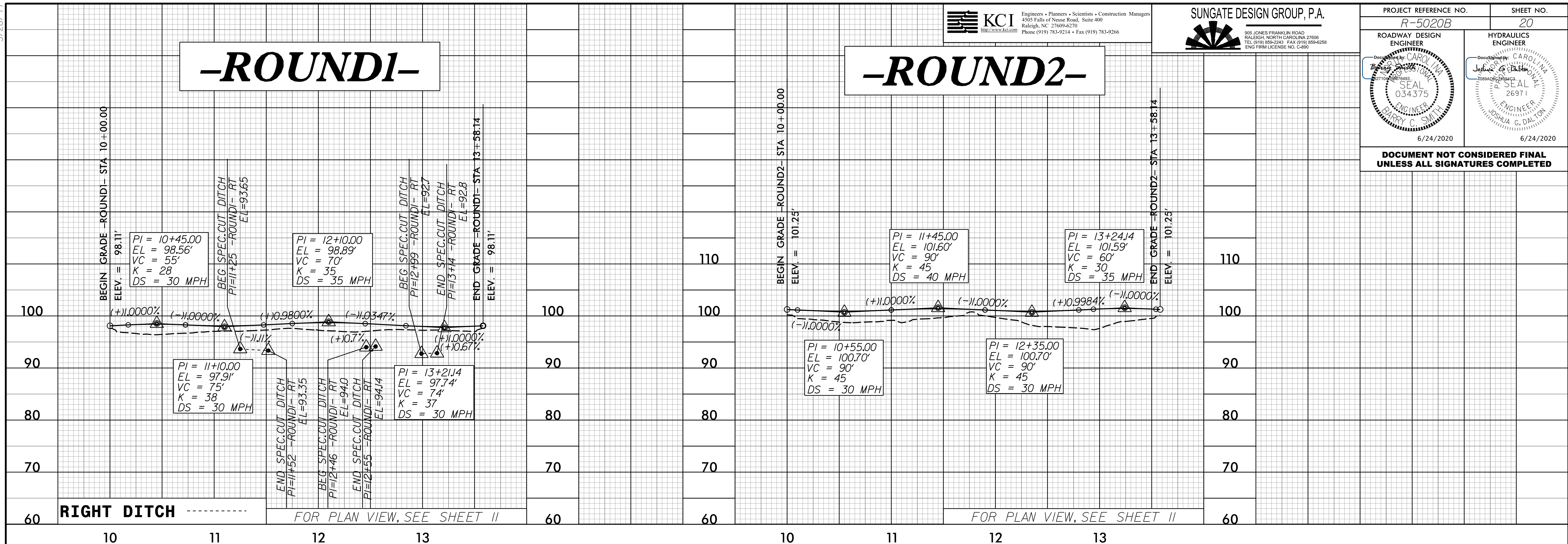
DRAINAGE AREA	= 30.2	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 17	CFS
DESIGN HW ELEVATION	= 91.6	FT
100 YEAR DISCHARGE	= 20	CFS
100 YEAR HW ELEVATION	= 91.85	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 72.3	CFS
OVERTOPPING ELEVATION	= 100.9	FT

FOR PLAN VIEW, SEE SHEET 12

5/28/19

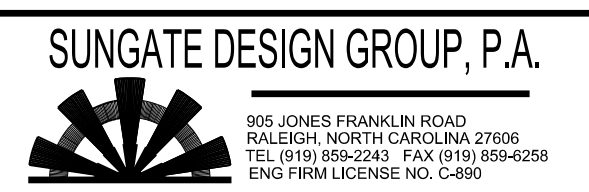
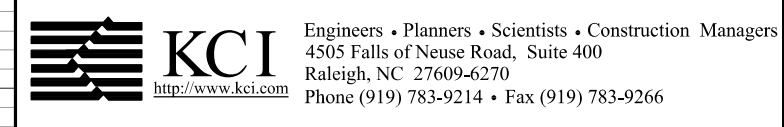
PROJECT REFERENCE NO. <b>R-5020B</b>	SHEET NO. <b>20</b>
ROADWAY DESIGN ENGINEER BARRY C. SMITH 034375 6/24/2020	HYDRAULICS ENGINEER JOSHUA S. DALTON 26971 6/24/2020

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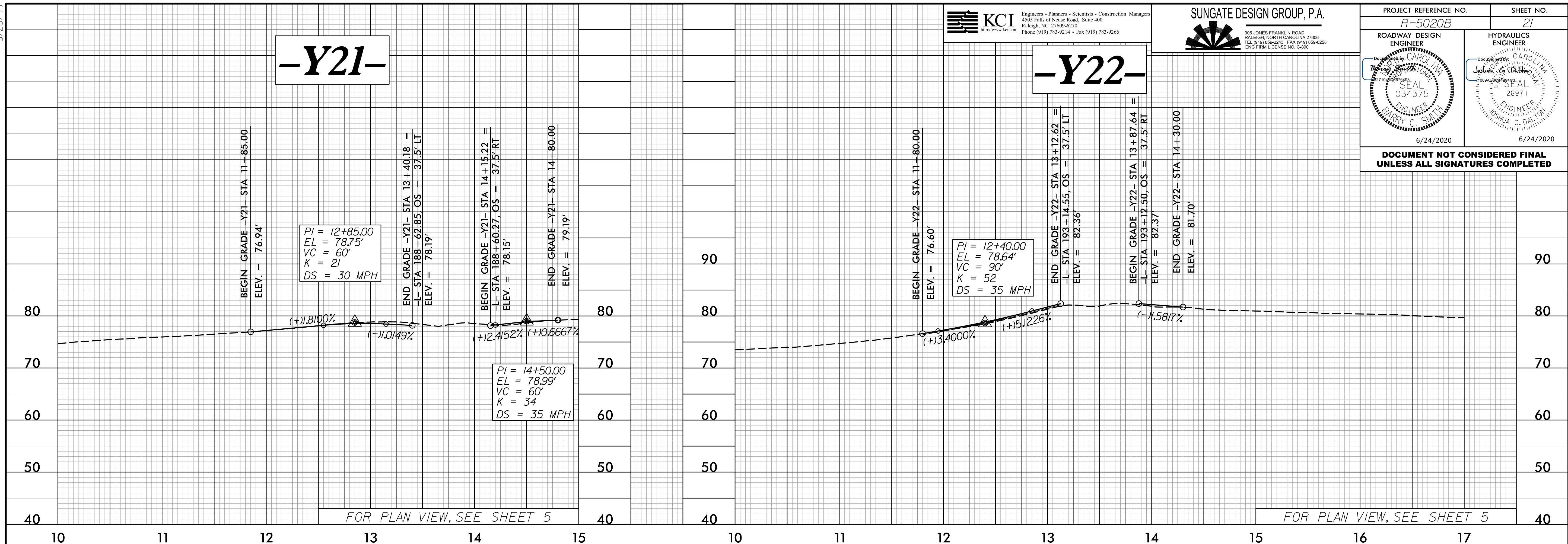
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5/28/19



PROJECT REFERENCE NO. <i>R-5020B</i>	SHEET NO. <i>21</i>
ROADWAY DESIGN ENGINEER <i>BRADY C. SMITH</i> SEAL 034375 6/24/2020	HYDRAULICS ENGINEER <i>JOSHUA S. DALTON</i> SEAL 26971 6/24/2020

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

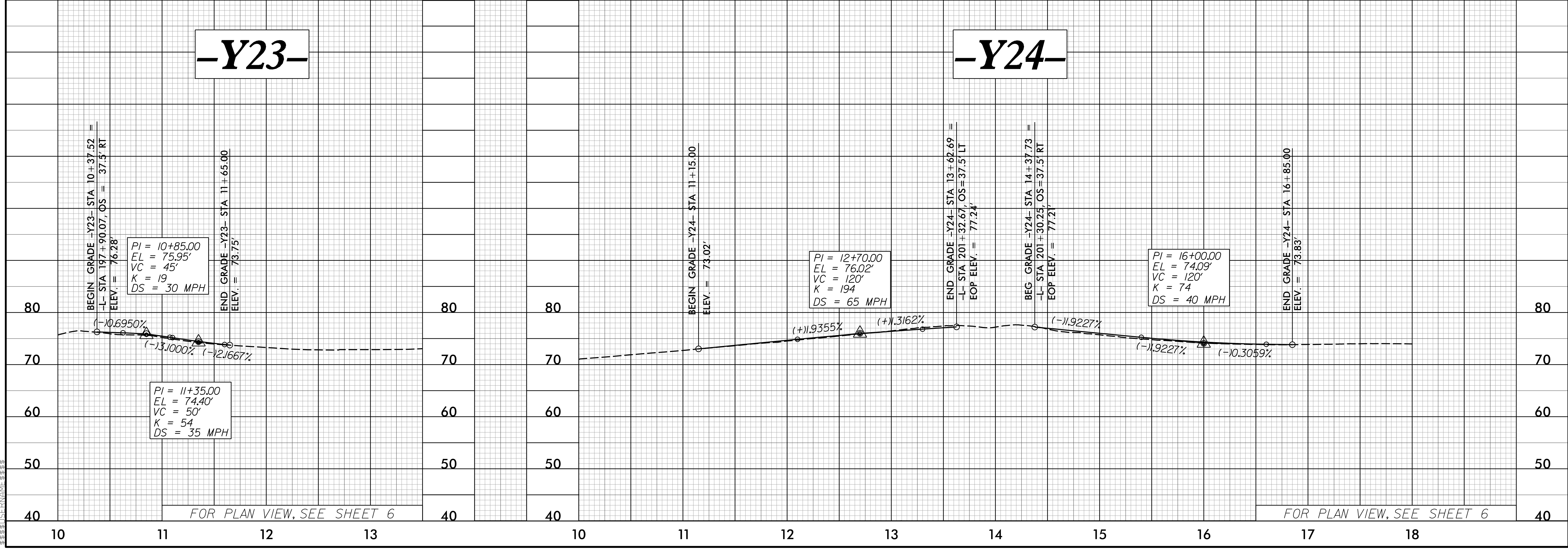


**-Y21-**

**-Y22-**

**-Y23-**

**-Y24-**



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FOR PLAN VIEW, SEE SHEET 5

FOR PLAN VIEW, SEE SHEET 5

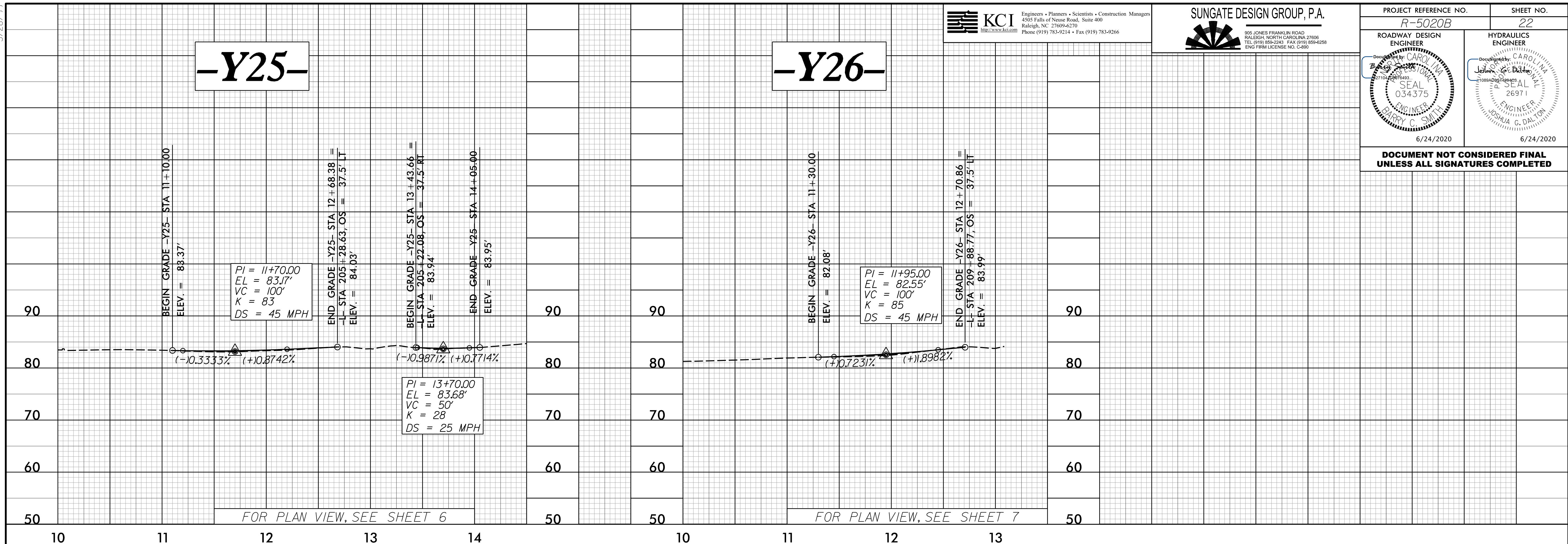
FOR PLAN VIEW, SEE SHEET 6

FOR PLAN VIEW, SEE SHEET 6

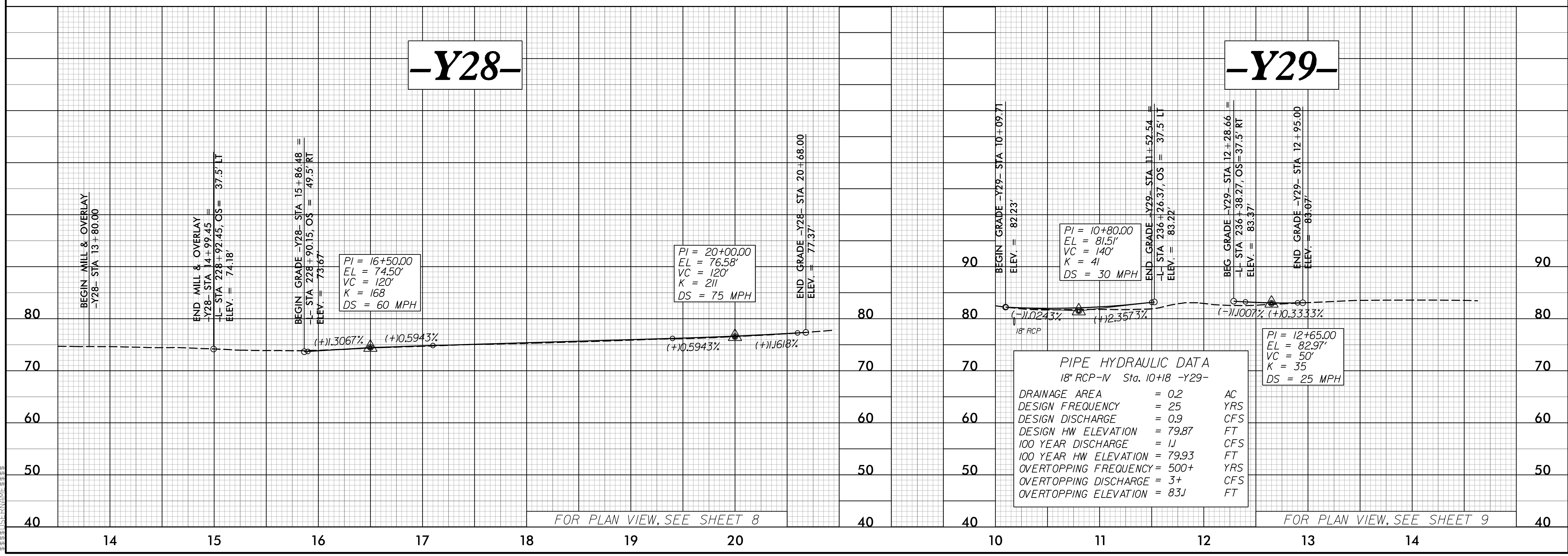
5/28/19

PROJECT REFERENCE NO. <b>R-5020B</b>	SHEET NO. <b>22</b>
ROADWAY DESIGN ENGINEER BARRY C. SMITH Professional Seal 034375 6/24/2020	HYDRAULICS ENGINEER JOSHUA S. DALTON Professional Seal 26971 6/24/2020

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



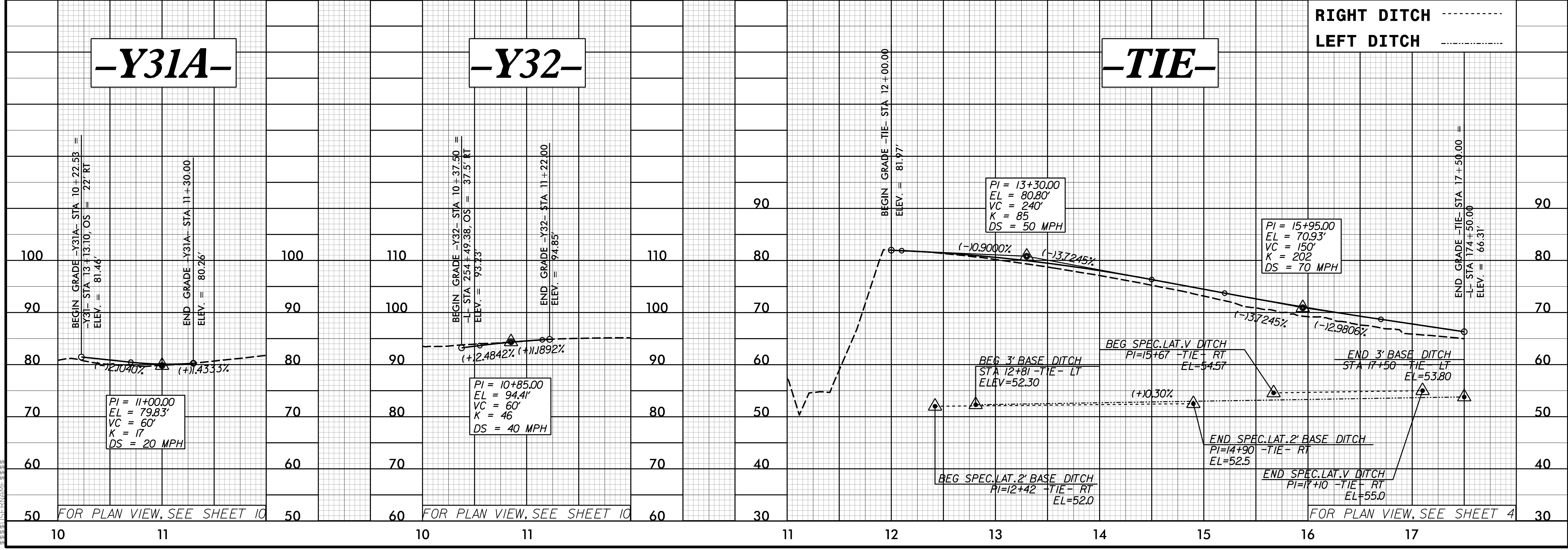
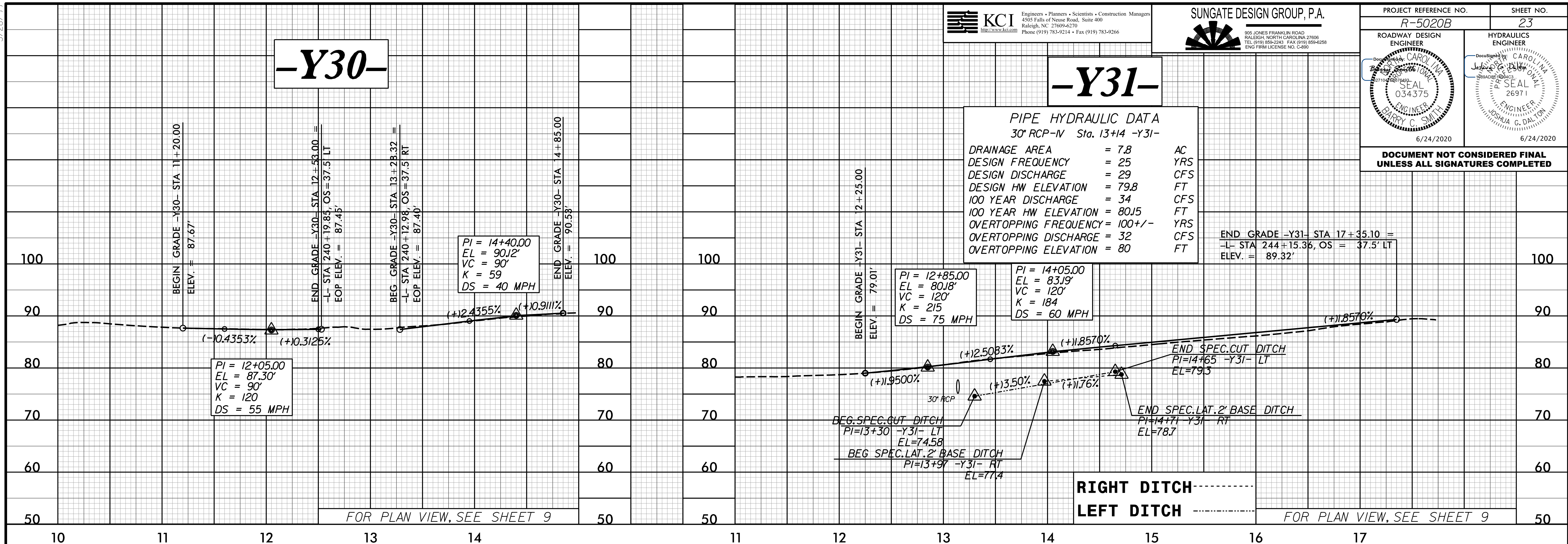
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5/28/20

PROJECT REFERENCE NO. <b>R-5020B</b>	SHEET NO. <b>23</b>
ROADWAY DESIGN ENGINEER JOSHUA S. DALTON 034375 6/24/2020	HYDRAULICS ENGINEER JOSHUA S. DALTON 26971 6/24/2020

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UNLESS ALL SIGNATURES COMPLETED**

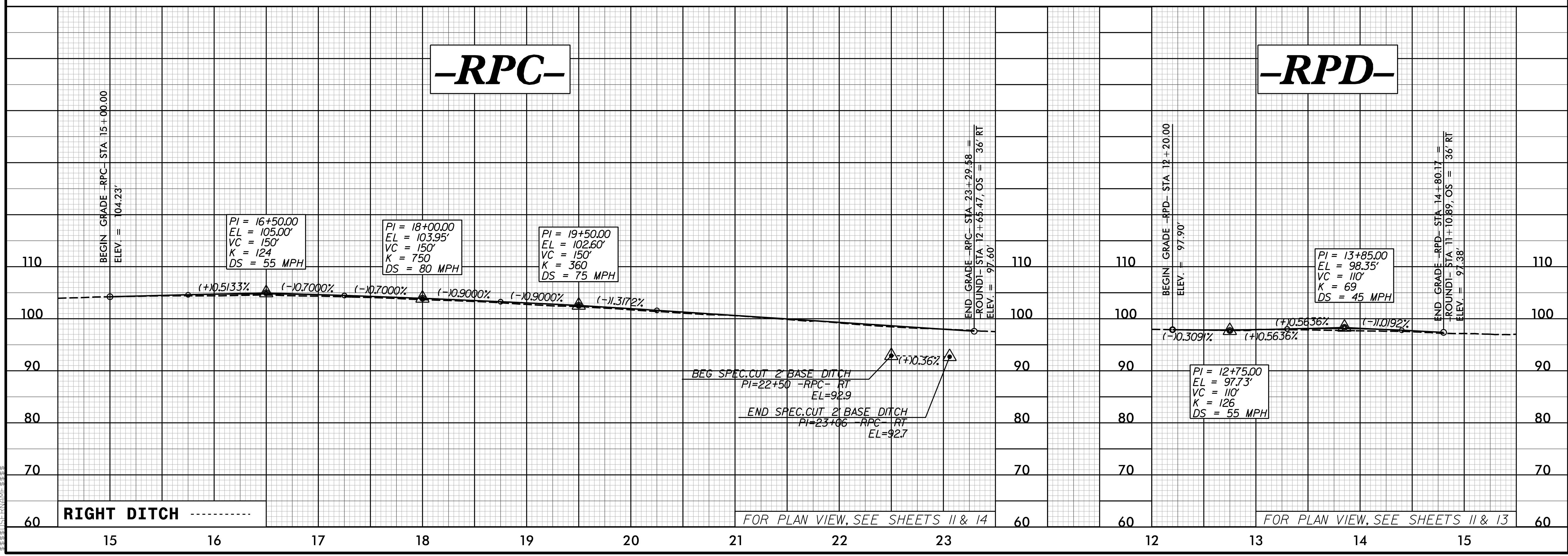


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5/28/20

PROJECT REFERENCE NO. <b>R-5020B</b>	SHEET NO. <b>24</b>
ROADWAY DESIGN ENGINEER GARY C. SMITH 034375	HYDRAULICS ENGINEER JOSHUA S. DALTON 26971
6/24/2020	6/24/2020

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED



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GARY C. SMITH  
034375