

US004070AA

COMPUTED BY: MLH DATE: 09-13-21 Rev 4-20-22
CHECKED BY: KBA WHT DATE: 3-15-22 Rev 4-28-22

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO. I-5987B SHEET NO. 3D-20

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, Invert Elevation, Minimum Required Slope, Side Drain Pipe, R.C. Pipe Class III, R.C. Pipe Class IV, R.C. Pipe Class V, Quantities for Drainage Structures, Frame, Grates, and Hood, Concrete Transitional Section, Abbreviations, and Remarks.

SHEET TOTALS

Summary row for SHEET TOTALS with values for various columns: 412, 364, 104, 104, 25, 1.4, 25, 25, 18, 29, 928

USD0470AA

Table with columns: COMPUTED BY: MLH, DATE: 09-13-21; CHECKED BY: KBA, DATE: 3-15-22; DATE: Rev 4-20-22, DATE: Rev 4-28-22

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

Table with columns: PROJECT NO. I-5987B, SHEET NO. 3D-24

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)

Main data table with columns: LINE & STATION, SIZE, THICKNESS OR GAUGE, OFFSET, STRUCTURE NUMBER, TOP ELEVATION, INVERT ELEVATION, MINIMUM REQUIRED SLOPE, Side Drain Pipe (RCP, CSP, CAAP, HDPE, PVC, or PP PIPE), R. C. PIPE CLASS III, R. C. PIPE CLASS IV, R. C. PIPE CLASS V, ENDWALLS, QUANTITIES FOR DRAINAGE STRUCTURES, FRAME, GRATES, AND HOOD, CONCRETE TRANSITIONAL SECTION, GRADE, PIPE REMOVAL, and REMARKS.

SHEET TOTALS

Summary row at the bottom of the table containing totals for various columns.

USD0470AA

COMPUTED BY: MLH DATE: 09-13-21 Rev 4-20-22
CHECKED BY: KBA WHT DATE: 3-15-22 Rev 4-28-22

PROJECT NO. SHEET NO.
I-5987B 3D-28

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

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 54 INCHES & OVER)

Table with columns for Line & Station, Structure Number, Invert Elevation, Pipe Specifications (R.C. Pipe Class III, IV, V), Quantities for Drainage Structures, Frame, Grates, and Hood, and Remarks. Includes sub-totals for SHEET TOTALS and PROJECT TOTALS.

ABBREVIATIONS table listing terms like C.A.A., C.B., C.S., D.I., G.D.I., H.D.P.E., J.B., M.H., N.S., P.V.C., R.C., T.B.D.I., T.B.J.B., and W.S. with their corresponding material descriptions.

SHEET TOTALS and PROJECT TOTALS summary rows at the bottom of the main table, showing cumulative values for various quantities and dimensions.

COMPUTED BY: S. Mitchell DATE: 2/25/2022
 CHECKED BY: K. Hill DATE: 2/25/2022

(12-17-19)

PROJECT NO. I-5987B SHEET NO. 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
-L-	515+50	529+50	LT/RT	SD	5600
-L-	568+25	574+25	LT/RT	SD	2400
-L-	593+25	559+50	LT/RT	SD	2500
-L-	634+50	639+50	LT/RT	SD	2000
-L-	653+25	655+75	LT/RT	SD	1000
-L-	658+25	660+75	LT/RT	SD	1000
-L-	669+50	675+50	LT	SD	1200
-L-	680+75	699+50	LT/RT	SD	7500
-L-	705+00	713+25	LT/RT	SD	3300
-L-	733+25	735+75	LT/RT	SD	1000
-L-	738+25	740+75	LT/RT	SD	1000
-L-	748+25	750+75	LT	SD	500
-L-	769+50	784+50	RT	SD	3000
-L-	814+50	824+50	LT/RT	SD	4000
-L-	864+50	874+50	LT/RT	SD	4000
-L-	882+25	889+50	LT/RT	SD	2900
-L-	894+50	898+25	LT/RT	SD	1500
-L-	903+25	915+00	LT/RT	SD	4700
-SR3-	24+50	28+50	LT/RT	SD	800
-SR3-	38+00	41+00	RT	SD	600
-Y1BRPC-	10+00	14+50	RT	SD	900
-Y5-	18+50	22+25	LT	SD	800
-Y5RPA-	19+00	23+77	RT	SD	1000
CONTINGENCY					6000
TOTAL LF:					59200

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

SUMMARY OF SETTLEMENT GAUGES

Gauge No.	LINE and Station	Offset	
		Distance FT	Direction LT/RT
1	-L- 577+00	68	RT
2	-L- 579+00	68	RT
3	-L- 579+00	77	LT
4	-L- 581+00	68	RT
5	-L- 581+00	77	LT
6	-L- 583+00	68	RT
7	-L- 583+00	77	LT
8	-L- 588+60	68	RT
9	-L- 796+00	68	RT
10	-L- 798+00	68	RT
11	-L- 800+00	68	RT
12	-L- 806+00	68	RT
13	-L- 808+00	68	RT
14	-Y1B- 26+50	20	RT
15	-Y1B- 27+85	25	LT
16	-Y1B- 28+30	25	RT
17	-Y1B- 30+75	25	LT
18	-Y1B- 31+20	25	RT
19	-Y1B- 32+50	20	RT
20	-Y1B- 34+50	20	RT
21	-Y4- 23+75	20	LT
22	-Y4- 25+75	20	LT
23	-Y6- 29+15	20	LT
24	-Y6- 31+40	20	LT
25	-Y7- 28+60	20	RT
26	-Y7- 30+80	20	RT
TOTAL GAUGES (EACH):			26

SUMMARY OF AGGREGATE SUBGRADE/STABILIZATION

LINE	Station	Station	Aggregate Type* ASU(1/2)/AST	Aggregate Thickness INCHES [8" for ASU(2)]	Shallow Undercut CY	Class IV Subgrade Stabilization TONS	Geotextile for Soil Stabilization SY	Stabilizer Aggregate TONS	Class IV Aggregate Stabilization TONS
CONTINGENCY									
			ASU(1)	12"	1000	1900	3000		
TOTAL CY/TONS/SY:					1000	1900**	3000**	0	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 Soil 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.

SUMMARY OF SURCHARGES AND SURCHARGE WAITING PERIODS*

LINE	Station	Station	Surcharge Height FT	MONTHS
-L-	575+25	584+93	3	8
-L-	587+17	588+75	3	8
-L-	792+00	801+93	3	7
-L-	804+17	808+60	4	12

*See 2G-1 through 2G-3 for Surcharge Details

SUMMARY OF EMBANKMENT WAITING PERIODS

LINE	Station	Station	MONTHS
-L-	576+75	583+88	6
-Y1B-	26+25	26+83	4
-Y1B-	32+19	37+00	4
-Y1BRAB2-	10+00	13+90	4

SUMMARY OF ROCK PLATING

LINE	Beginning Slope (H:V)	Approx. Station	Ending Slope (H:V)	Approx. Station	Location LT/RT	Rock Plating Detail No. 1/2/3/4	Riprap Class* 1/2/B	Rock Plating SY
-Y7-	2.5:1	31+75	2.5:1	35+25	RT	2		2200
TOTAL SY:								2200

*Use Class 1, 2 or B riprap if riprap class is not shown for rock plating location.

SUMMARY OF BRIDGE WAITING PERIODS

Bridge Description	End Bent/ Bent No.	MONTHS
Bridge No. 154 on -Y4- over -L- at -L- Sta. 573+67.86	EB1/EB1	2
Bridge No. 156 on -L- over Big Marsh Swamp at -L- Sta. 586+14.00	EB1/EB2	1
Bridge No. 100 on -Y1B- over -L- at -L- Sta. 702+75.43	EB1/EB2	4
Bridge No. 162 on -Y6- over -L- at -L- Sta. 761+20.96	EB1	2
Bridge No. 162 on -Y6- over -L- at -L- Sta. 761+20.96	EB2	3
Bridge No. 167 on -Y7- over -L- at -L- Sta. 883+36.60	EB1/EB2	2

**STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS**

PARCEL INDEX SHEET

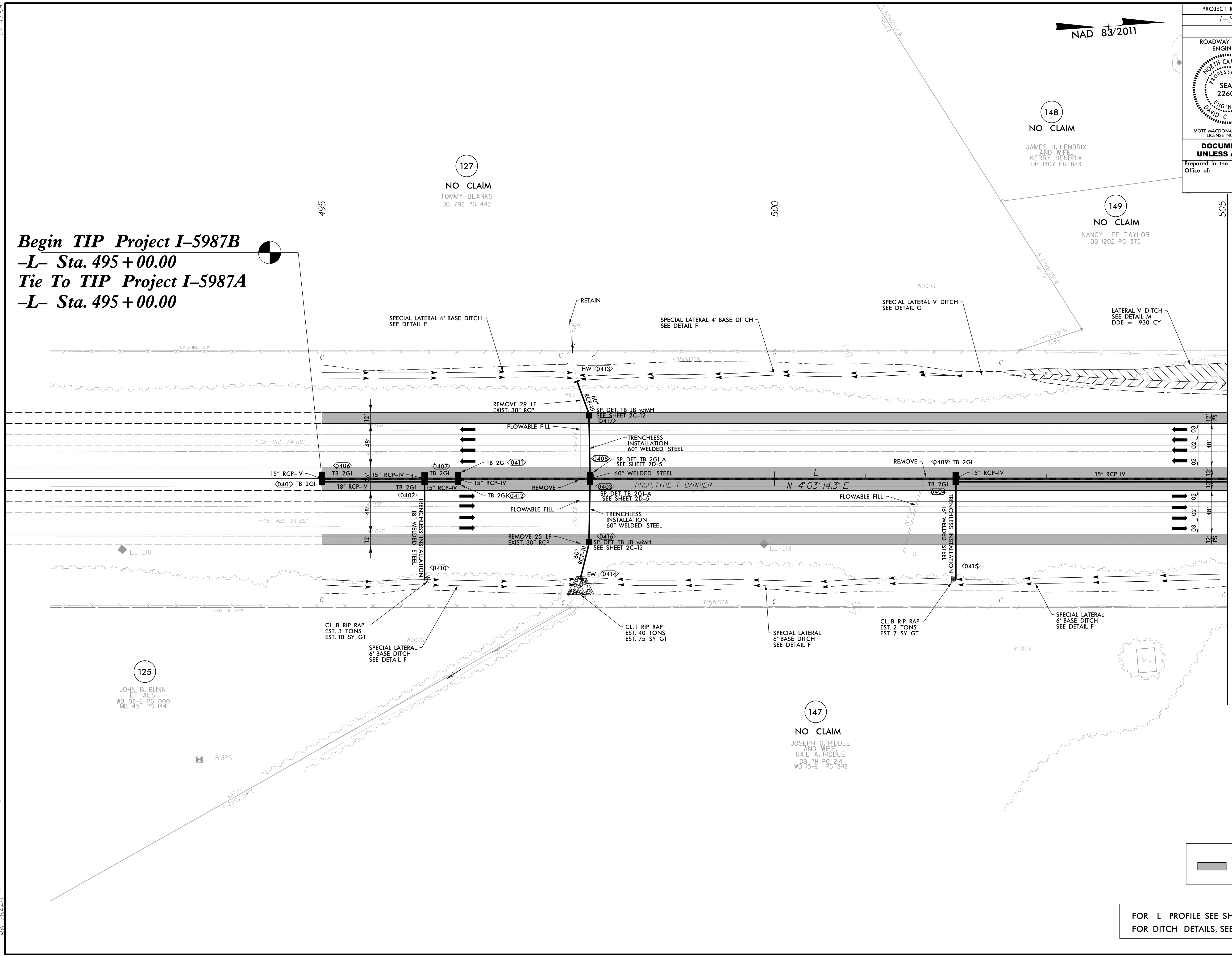
PARCEL No.	SHEET No.	PROPERTY OWNER NAME
147	4,5	JOSPEPH G. RIDDLE AND WIFE, GAIL A. RIDDLE
148	4,5	JAMES H. HENDRIX AND WIFE, KERRY HENDRIX
149	4,5	NANCY LEE TAYLOR
150	5	NANCY LEE TAYLOR
151	5	TOMMY BLANKS
152	5,6	MARGARET R. RUSS
153	5,6	MARGARET R. RUSS
154	6	LFM FORESTRY, LLC
155	6,7	MARGARET J. EVERETTE AND HUSBAND, JAMESC. EVERETTE
156	6	LEE MORRISEY AND ARDELL MORRISEY
157	6	LEE MORRISEY AND ARDELL MORRISEY
158	6	CAPE FEAR PROPERTY VENTURES, LLC
159	7	CAPE FEAR PROPERTY VENTURES, LLC
160	7	CAPE FEAR PROPERTY VENTURES, LLC
161	7	CAPE FEAR PROPERTY VENTURES, LLC
162	7	CAPE FEAR PROPERTY VENTURES, LLC
163	7,8,9,10,40	CAPE FEAR PROPERTY VENTURES, LLC
164	7	CAPE FEAR PROPERTY VENTURES, LLC
165	7	CAPE FEAR PROPERTY VENTURES, LLC
166	7	CAPE FEAR PROPERTY VENTURES, LLC
167	7,8	CAPE FEAR PROPERTY VENTURES, LLC
168	8	CAPE FEAR PROPERTY VENTURES, LLC
169	8	CAPE FEAR PROPERTY VENTURES, LLC
170	8	CAPE FEAR PROPERTY VENTURES, LLC
171	8	CAPE FEAR PROPERTY VENTURES, LLC
172	8	CAPE FEAR PROPERTY VENTURES, LLC
173	8	CAPE FEAR PROPERTY VENTURES, LLC
174	8	CAPE FEAR PROPERTY VENTURES, LLC
175	8	CAPE FEAR PROPERTY VENTURES, LLC
176	8	CAPE FEAR PROPERTY VENTURES, LLC
177	8,9	CAPE FEAR PROPERTY VENTURES, LLC
178	9	CAPE FEAR PROPERTY VENTURES, LLC
179	9	CAPE FEAR PROPERTY VENTURES, LLC
180	9	CAPE FEAR PROPERTY VENTURES, LLC
181	9	CAPE FEAR PROPERTY VENTURES, LLC
182	9	CAPE FEAR PROPERTY VENTURES, LLC
183	9,10	NCDOT
184	9,10	NCDOT
185	9	CAPE FEAR PROPERTY VENTURES, LLC
186	9	CAPE FEAR PROPERTY VENTURES, LLC
187	9	CAPE FEAR PROPERTY VENTURES, LLC
188	9	CAPE FEAR PROPERTY VENTURES, LLC
189	9,10	CAPE FEAR PROPERTY VENTURES, LLC
190	10	CAPE FEAR PROPERTY VENTURES, LLC
191	10	CAPE FEAR PROPERTY VENTURES, LLC
192	10,39	DWIGHT A. ATKINSON, JR. AND WIFE, AMANDA B BARNHORST
193	10,11,39	DWIGHT A. ATKINSON, JR. AND WIFE, AMANDA B BARNHORST
194	10,11,40	CALVIN T. WILKERSON
195	10,11	KEITH-PERRY, LLC
196	11,12,13	KEITH-PERRY, LLC
197	11,12	TRIPLE K INVESTMENTS, LLC.
198	12,13	THE MELBA H. INMAN LIVING TRUST
199	12,13	FRANCES C. WILLIAMS
200	12,13	TRIPLE K INVESTMENTS, LLC.
200A	13	WAL-MART REAL ESTATE BUSINESS TRUST
201	12,13	FRANCES C. WILLIAMS
202	13,42	FRED R. KEITH JR.
203	13,42	TOWN OF ST PAULS
204	13	HOTEL VENTURES OF ST. PAULS, LLC
205	13	ALHOBISHI CONVENIENCE STORES & RENTALS, INC.
206	13,13A	TOM KEITH

PARCEL No.	SHEET No.	PROPERTY OWNER NAME
207	13,41	OAK RIDGE CEMETERY
208	13,14,41	DEIRDRE E. MARTIN AND REBECCA MARTIN
209	13	RSO HOLDINGS, LLC
210	13,41	NATIONAL RETAIL PROPERTIES, LP
211	13	BOARD OF ALCOHOLIC CONTROL OF ST. PAULS
212	13	RSAP OF RAEFORD, LLC
213	13	LBY CORPORATION
214	13,13A	BURGER KING CORPORATION
215	13,13A	BURGER KING CORPORATION
216	13,13A	TJMK, LLC
217	13,14	FADHL ALHOBISHI
218	14,15,16	KEITH-PERRY, LLC
219	14,15	MARIA C. WARREN
220	16,17	FREDERICK AND JUDY KEITH TRUST
221	16,17,18	KEITH-PERRY, LLC
222	17,18	KEITH-PERRY, LLC
223	18	ABUNDANT LIFE CHURCH
224	18	MARY H. BUTLER & SHORE CARY
225		(not needed)
226	18,19	HOWARD W. JOHNSON JR
227	18,19,20	JOHN C. MCLEOD & SHORE B. MCLEOD
228	19,20	HOWARD W. JOHNSON JR
229	19,20	BAPTIST COLLEGE AT CHARLESTON
230	20	JOHN ROBERT EDGE JR. & MARGE W. EDGE
231	20	JOYCE & RICHARD HINSON
232	20	JOHN R. EDGE & JAUNITA EDGE
233	20,21	HOWARD JOHNSON
234	20	HOWARD W. JOHNSON JR.
235	20	HOWARD W. JOHNSON JR
236	20,21,22	DAMILA BROOKS
237	19,20	ALHOBISHI CONVENIENCE STORES & RENTALS, INC
238	20	HOWARD W. JOHNSON JR
239	20	HOWARD W. JOHNSON JR
240	20	GEORGE D. REGAN
241	20,21	MARY ANN REGAN
241A	20,21	MARY ANN REGAN
242	21,22,43	MARY ANN REGAN
243	21,22	MARY ANN REGAN
244	22	EARL SINCLAIR
245	22	MICHAEL JAMES CALKIN
246	22,23	MICHAEL JAMES CALKIN
247	22	BILL CHAVIS
248	22,43	CAROL S. MCBRYDE & JERRY MCBRYDE
249	22,23	REM BILLY RAY & EMMA JANE LOCKLEAR
250	22,43	CAROL S. MCBRYDE & JERRY MCBRYDE
251	22,23,24,43	FAYE E. MCRAINEY REAVES
252	23,24	FAYE E. MCRAINEY REAVES
253	43	ANGUS & CAROLYN MCCORMICK
254	24	HEATHER NICOLE C. & JAMES A. CARTER JR.
255	24, 45	BEVERLY C. BLACKMON
256	25,26,27,28,29,30,44	FAYE E. MCRAINEY REAVES
257	25,26,27,28,29,45	RIDDLE FARMS, LLC
257A	25	FAYE E. MCRAINEY REAVES
258	29,30	JAMES BRITT & RUTH B. BRITT
259	30,31,32,33,34	FREEHOLD PROPERTIES INC
260	30,31,32,33,34	JAMES BRITT & RUTH
261	34,35	MELBA W. SMITH
262		(not needed)
263	35,36,46	GRADY EUGENE MCMILLAN
264	35,36	BOBBY EUGENE MCMILLAN
265	35,36,46	CONWAY & CONWAY TRANSPORTATION
266	34,35,36,47	EDNA F. M. MARTIN

5/14/99
4/28/2022
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PROJECT REFERENCE NO. I-5987B	SHEET NO. 4
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	SEAL 036821
MOTT MACDONALD 1 & E, LLC LICENSE NO. F-0669	MOTT MACDONALD 1 & E, LLC LICENSE NO. F-0669
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Prepared in the Office of:	M 7621 Purfoy Rd, Suite 115 Fuquay-Varina, NC 27526 MOTT MACDONALD www.mottmac.com/americas

Begin TIP Project I-5987B
-L- Sta. 495 + 00.00
Tie To TIP Project I-5987A
-L- Sta. 495 + 00.00



125
JOHN B. BUNN
ET ALS
WB 08-E PG 000
MB 45 PG 144

127
NO CLAIM
TOMMY BLANKS
DB 792 PG 442

147
NO CLAIM
JOSEPH G. RIDDLE
AND WIFE
GAIL A. RIDDLE
DB 7H PG 214
WB 13-E PG 348

148
NO CLAIM
JAMES H. HENDRIX
AND WIFE
KERRY HENDRIX
DB 1307 PG 823

149
NO CLAIM
NANCY LEE TAYLOR
DB 1202 PG 375

MATCHLINE -L- STA. 505 + 00.00 SEE SHEET NO. 5

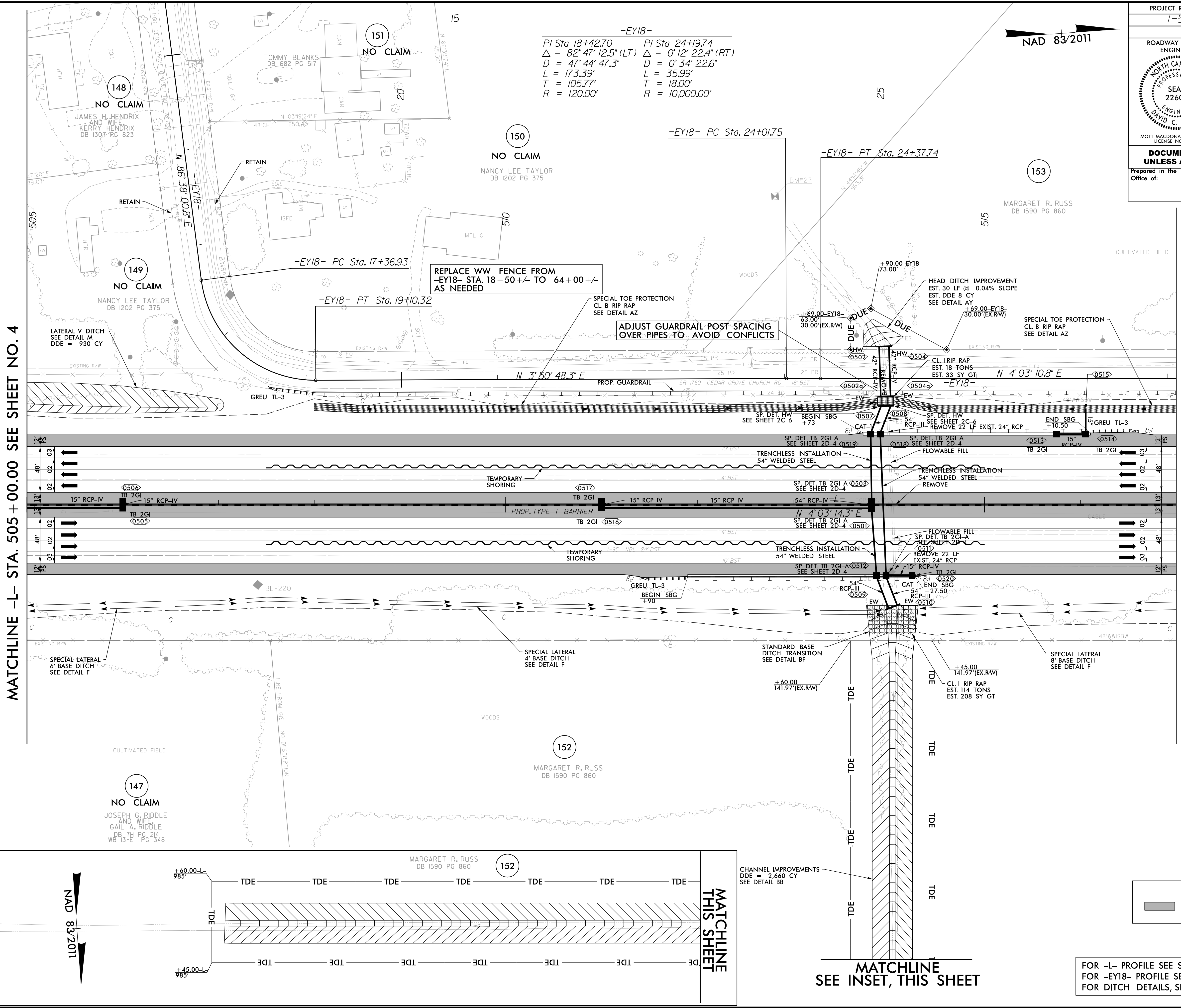
LEGEND

- PROPOSED PAVED SHOULDER

FOR -L- PROFILE SEE SHEET 49
FOR DITCH DETAILS, SEE SHEETS 2D-1 THRU 2D-3

PROJECT REFERENCE NO. 1-5987B		SHEET NO. 5	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		NORTH CAROLINA PROFESSIONAL SEAL 036821	
NORTH CAROLINA PROFESSIONAL SEAL 22606		NORTH CAROLINA PROFESSIONAL SEAL 036821	
DAVID C. WALKER		DAVID C. WALKER	
MOTT MACDONALD 1 & E, LLC LICENSE NO. F-0669		MOTT MACDONALD 1 & E, LLC LICENSE NO. F-0669	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
Prepared in the Office of:		MOTT MACDONALD	
		7621 Purfoy Rd, Suite 115 Fuquay-Varina, NC 27526 www.mottmac.com/americas	

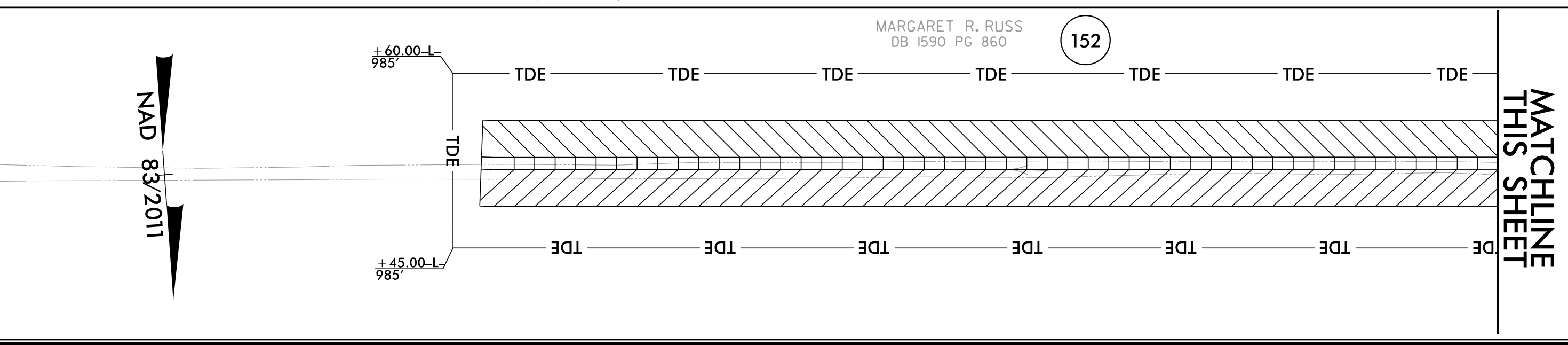
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MATCHLINE -L- STA. 505 + 00.00 SEE SHEET NO. 4

MATCHLINE -L- STA. 517 + 00.00 SEE SHEET NO. 6

-EY18-
 PI Sta 18+42.70 Δ = 82° 47' 12.5" (LT) D = 47' 44" 47.3" L = 173.39' T = 105.77' R = 120.00'
 PI Sta 24+19.74 Δ = 0° 12' 22.4" (RT) D = 0' 34" 22.6" L = 35.99' T = 18.00' R = 10,000.00'



MATCHLINE -L- STA. 517 + 00.00 SEE SHEET NO. 6
 MATCHLINE -R- STA. 517 + 00.00 SEE SHEET NO. 4
 MATCHLINE THIS SHEET
 MATCHLINE THIS SHEET

LEGEND

PROPOSED PAVED SHOULDER

FOR -L- PROFILE SEE SHEET 50
 FOR -EY18- PROFILE SEE SHEET 103
 FOR DITCH DETAILS, SEE SHEETS 2D-1 THRU 2D-3

5/14/99

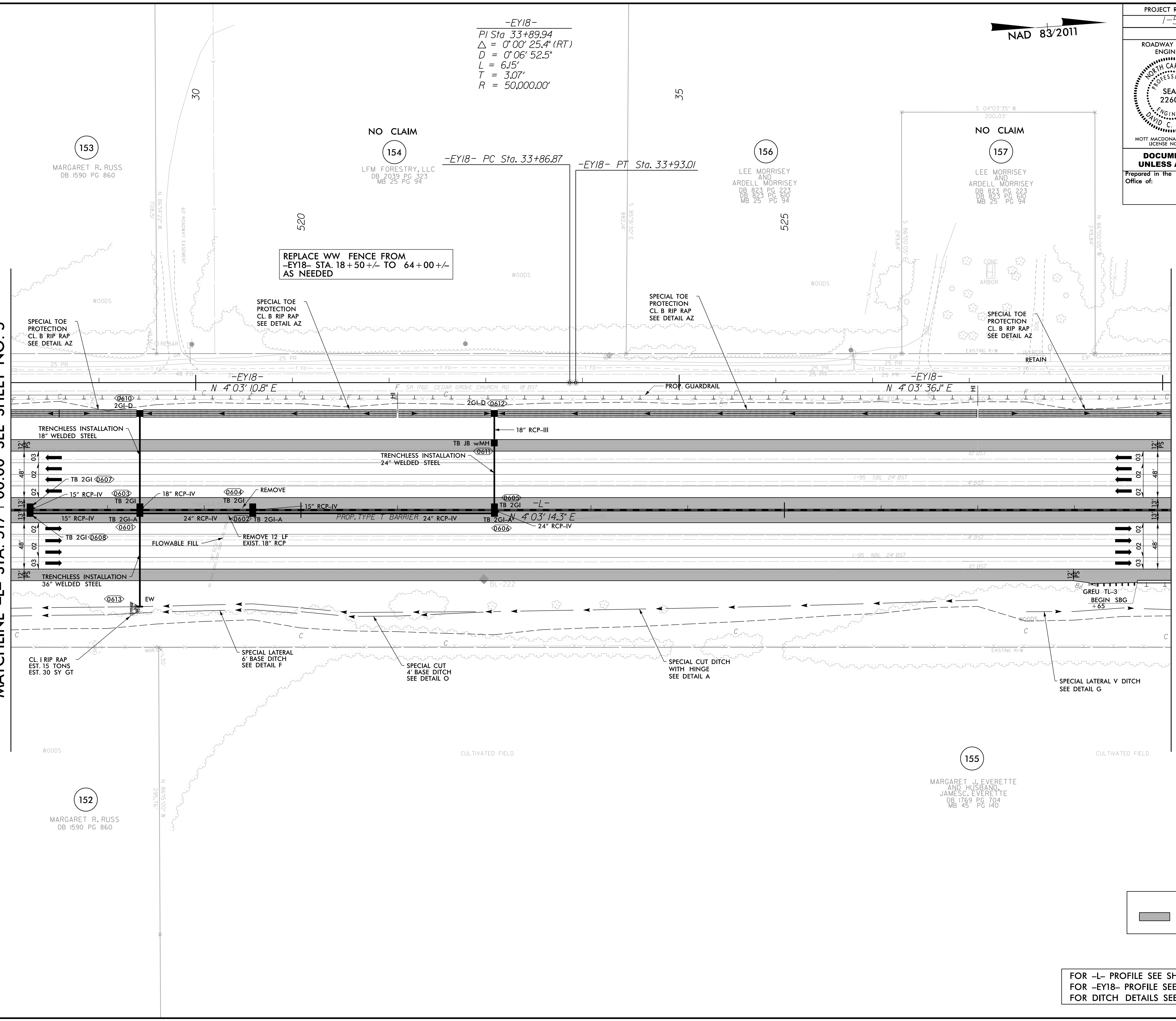
PROJECT REFERENCE NO. 1-5987B		SHEET NO. 6	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		NORTH CAROLINA PROFESSIONAL SEAL 036821 DAVID C. WALKER ENGINEER	
NORTH CAROLINA PROFESSIONAL SEAL 22606 DAVID C. WALKER ENGINEER		NORTH CAROLINA PROFESSIONAL SEAL 036821 DAVID C. WALKER ENGINEER	
MOTT MACDONALD I & E, LLC LICENSE NO. F-0669		MOTT MACDONALD I & E, LLC LICENSE NO. F-0669	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
Prepared in the Office of:		M MOTT MACDONALD I & E, LLC 7621 Purfoy Rd, Suite 115 Fuquay-Varina, NC 27526 www.mottmac.com/americas	

NAD 83/2011

-EY18-
 PI Sta 33+89.94
 $\Delta = 0^{\circ}00'25.4" (RT)$
 $D = 0^{\circ}06'52.5"$
 $L = 6.15'$
 $T = 3.07'$
 $R = 50,000.00'$

MATCHLINE -L- STA. 517 + 00.00 SEE SHEET NO. 5

MATCHLINE -L- STA. 529 + 00.00 SEE SHEET NO. 7



REPLACE WW FENCE FROM
 -EY18- STA. 18+50+/- TO 64+00+/-
 AS NEEDED

LEGEND

■ PROPOSED PAVED SHOULDER

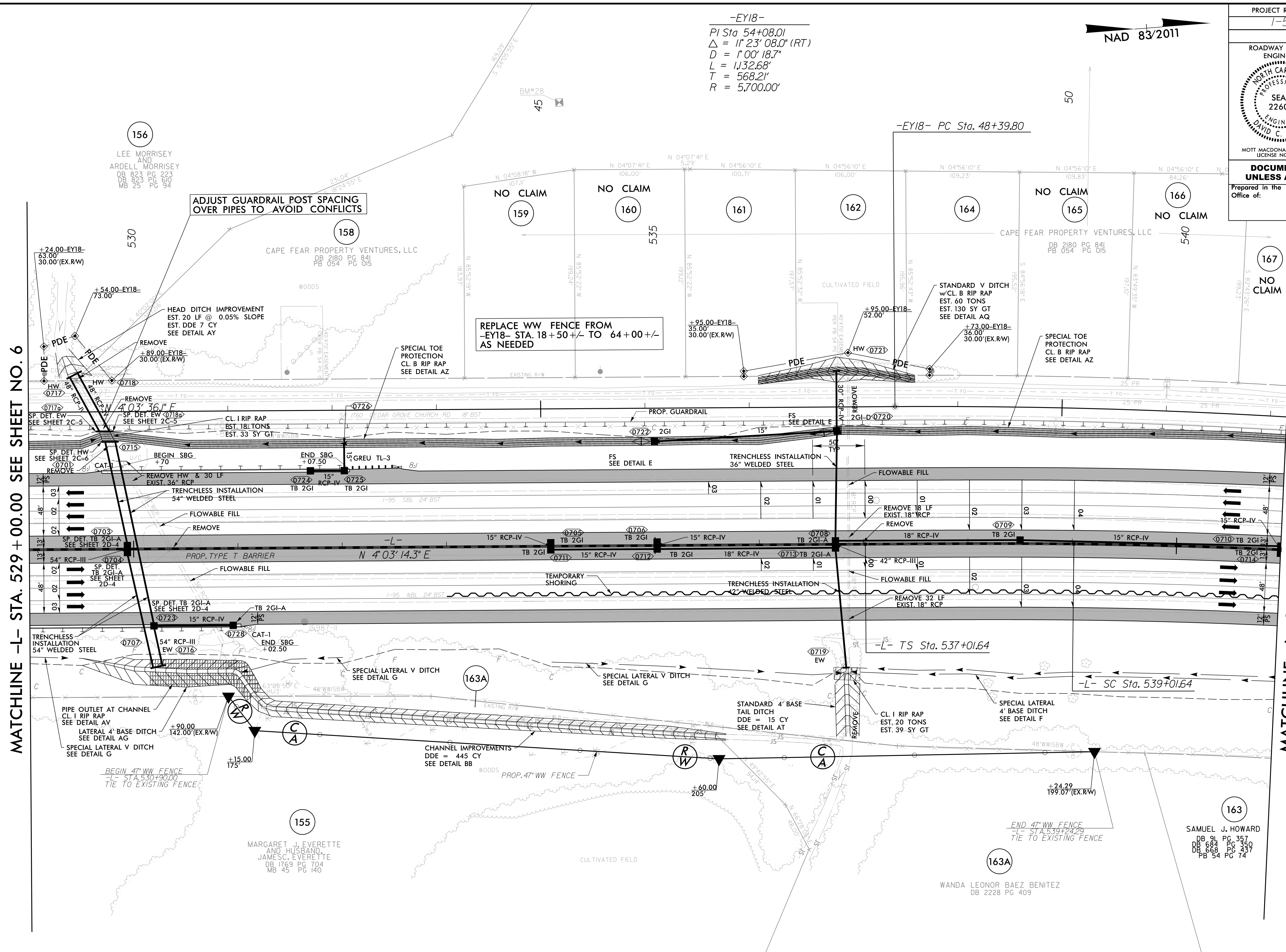
FOR -L- PROFILE SEE SHEET 50
 FOR -EY18- PROFILE SEE SHEET 103
 FOR DITCH DETAILS SEE SHEETS 2D-1 THRU 2D-3

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5/14/09

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PROJECT REFERENCE NO. 1-5987B	SHEET NO. 7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
MOTT MACDONALD I & E, LLC LICENSE NO. F-0669	MOTT MACDONALD I & E, LLC LICENSE NO. F-0669
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Prepared in the Office of:	M
	M 7621 Purfoy Rd, Suite 115 Fuquay-Varina, NC 27526 MOTT MACDONALD www.mottmac.com/americas



-EY18-
 PI Sta 54+08.01
 $\Delta = 11^{\circ} 23' 08.0''$ (RT)
 $D = 1^{\circ} 00' 18.7''$
 $L = 1,132.68'$
 $T = 568.21'$
 $R = 5,700.00'$

NAD 83/2011

-EY18- PC Sta. 48+39.80

MATCHLINE -L- STA. 529 + 00.00 SEE SHEET NO. 6

MATCHLINE -L- STA. 541 + 00.00 SEE SHEET NO. 8

-L-
 Pls Sta 538+34.97 PI Sta 546+06.59
 $\Theta_s = 0^{\circ} 59' 53.5''$ $\Delta = 14^{\circ} 00' 11.8''$ (RT)
 $L_s = 200.00'$ $D = 0^{\circ} 59' 53.5''$
 $LT = 133.34'$ $L = 1,402.87'$
 $ST = 66.67'$ $T = 704.95'$
 $R = 5,740.00'$

LEGEND

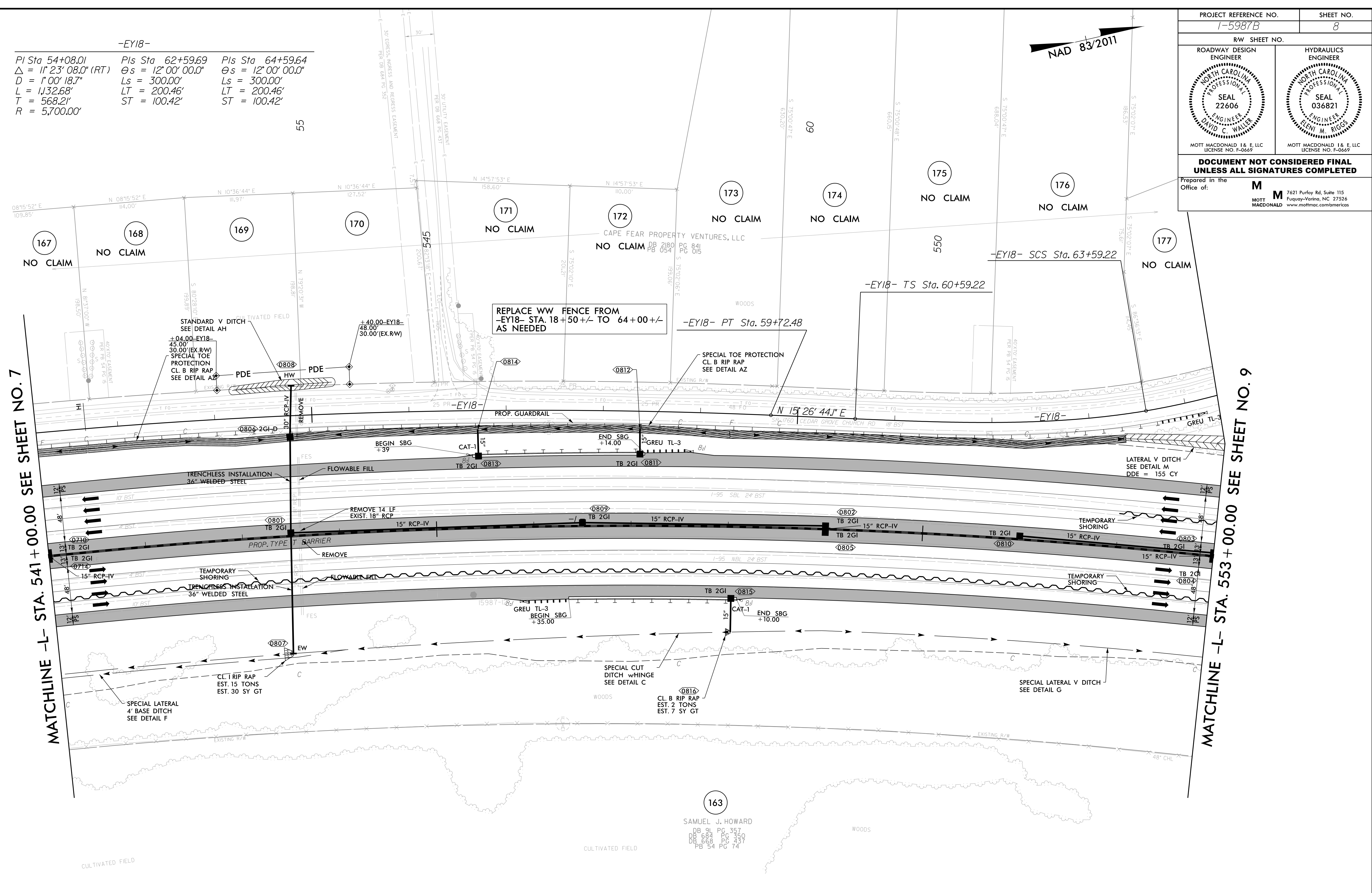
PROPOSED PAVED SHOULDER

FOR -L- PROFILE SEE SHEET 51
 FOR -EY18- PROFILE SEE SHEETS 103 THRU 104
 FOR DITCH DETAILS, SEE SHEETS 2D-1 THRU 2D-3

5/14/99
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 4/21/2022
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-EY18-

PI Sta 54+08.01	PIs Sta 62+59.69	PIs Sta 64+59.64
$\Delta = 11^{\circ}23'08.0"$ (RT)	$\Theta s = 12^{\circ}00'00.0"$	$\Theta s = 12^{\circ}00'00.0"$
$D = 1^{\circ}00'18.7"$	$Ls = 300.00'$	$Ls = 300.00'$
$L = 1,132.68'$	$LT = 200.46'$	$LT = 200.46'$
$T = 568.21'$	$ST = 100.42'$	$ST = 100.42'$
$R = 5,700.00'$		



MATCHLINE -L- STA. 541 + 00.00 SEE SHEET NO. 7

MATCHLINE -L- STA. 553 + 00.00 SEE SHEET NO. 9

PROJECT REFERENCE NO. 1-5987B	SHEET NO. 8
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	SEAL 22606
MOTT MACDONALD 1 & E, LLC LICENSE NO. F-0669	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Prepared in the Office of:	
MOTT MACDONALD 1 & E, LLC 7621 Purfoy Rd, Suite 115 Fuquay-Varina, NC 27526 LICENSE NO. F-0669 www.mottmac.com/americas	

-L-

PI Sta 546+06.59
$\Delta = 14^{\circ}00'11.8"$ (RT)
$D = 0^{\circ}59'53.5"$
$L = 1,402.87'$
$T = 704.95'$
$R = 5,740.00'$

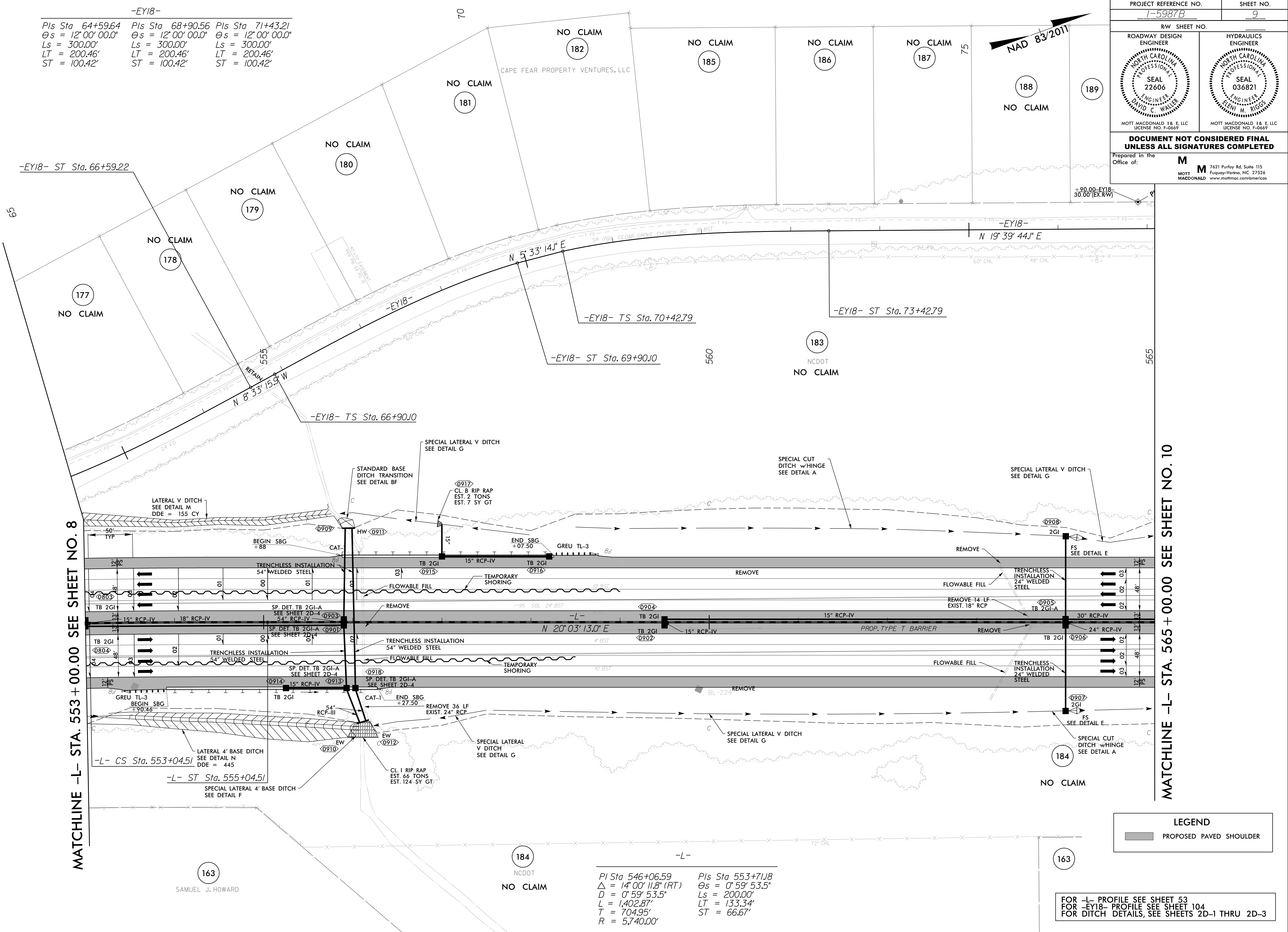
LEGEND

PROPOSED PAVED SHOULDER

FOR -L- PROFILE SEE SHEET 52
 FOR -EY18- PROFILE SEE SHEET 104
 FOR DITCH DETAILS, SEE SHEETS 2D-1 THRU 2D-3

PROJECT REFERENCE NO. I-5987B	SHEET NO. 9
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
MOTT MACDONALD I & E, LLC LICENSE NO. F-0669	MOTT MACDONALD I & E, LLC LICENSE NO. F-0669
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Prepared in the Office of:	M 7621 Purfoy Rd, Suite 115 Fuquay-Varina, NC 27526 MOTT MACDONALD www.mottmac.com/americas

-EY18-
 Pls Sta 64+59.64 Pls Sta 68+90.56 Pls Sta 71+43.21
 $\theta_s = 12^\circ 00' 00.0''$ $\theta_s = 12^\circ 00' 00.0''$ $\theta_s = 12^\circ 00' 00.0''$
 $L_s = 300.00'$ $L_s = 300.00'$ $L_s = 300.00'$
 $LT = 200.46'$ $LT = 200.46'$ $LT = 200.46'$
 $ST = 100.42'$ $ST = 100.42'$ $ST = 100.42'$



MATCHLINE -L- STA. 553 + 00.00 SEE SHEET NO. 8

MATCHLINE -L- STA. 565 + 00.00 SEE SHEET NO. 10

LEGEND

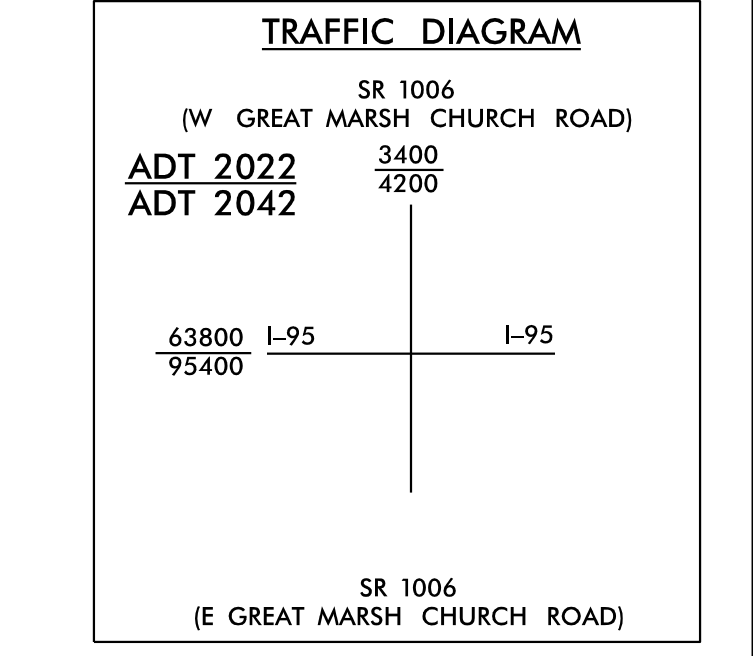
PROPOSED PAVED SHOULDER

-L-
 Pls Sta 546+06.59 Pls Sta 553+71.18
 $\Delta = 14^\circ 00' 11.8''$ (RT) $\theta_s = 0^\circ 59' 53.5''$
 $D = 0^\circ 59' 53.5''$ $L_s = 200.00'$
 $L = 1,402.87'$ $LT = 133.34'$
 $T = 704.95'$ $ST = 66.67'$
 $R = 5,740.00'$

FOR -L- PROFILE SEE SHEET 53
 FOR -EY18- PROFILE SEE SHEET 104
 FOR DITCH DETAILS, SEE SHEETS 2D-1 THRU 2D-3

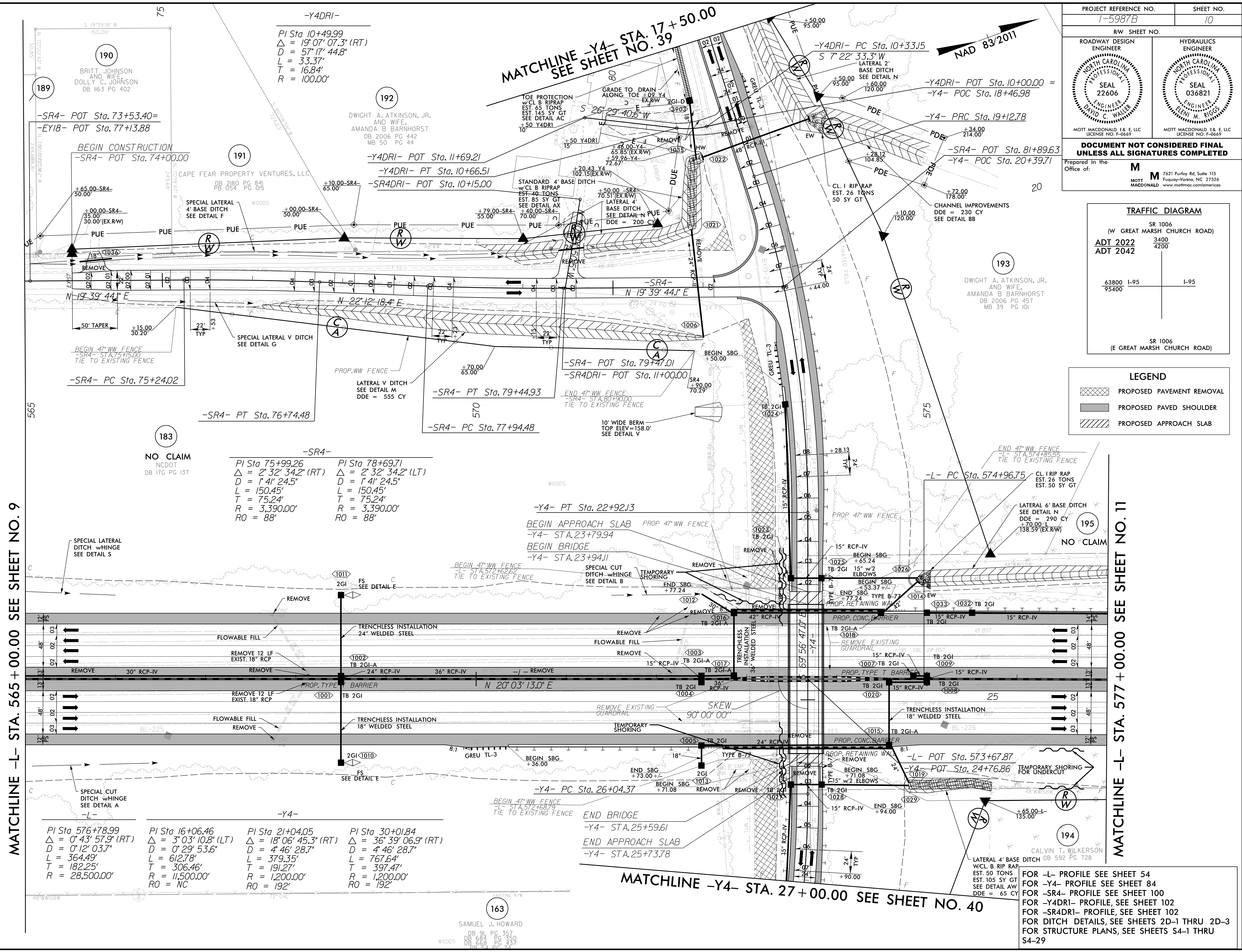
4/28/2022 10:58:14 AM R:\N\Projects\I-5987B_rdy_psh_09.dgn

PROJECT REFERENCE NO. 1-5987B		SHEET NO. 10	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		SEAL 22606 DAVID C. WALKER NORTH CAROLINA PROFESSIONAL ENGINEER	
		SEAL 036821 ALEX W. REGG NORTH CAROLINA PROFESSIONAL ENGINEER	
MOTT MACDONALD I & E, LLC LICENSE NO. F-0669		MOTT MACDONALD I & E, LLC LICENSE NO. F-0669	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
Prepared in the Office of:		M 7621 Purfoy Rd, Suite 115 Fuquay-Varina, NC 27526 LICENSE NO. F-0669 www.mottmac.com/americas	



LEGEND

- PROPOSED PAVEMENT REMOVAL
- PROPOSED PAVED SHOULDER
- PROPOSED APPROACH SLAB



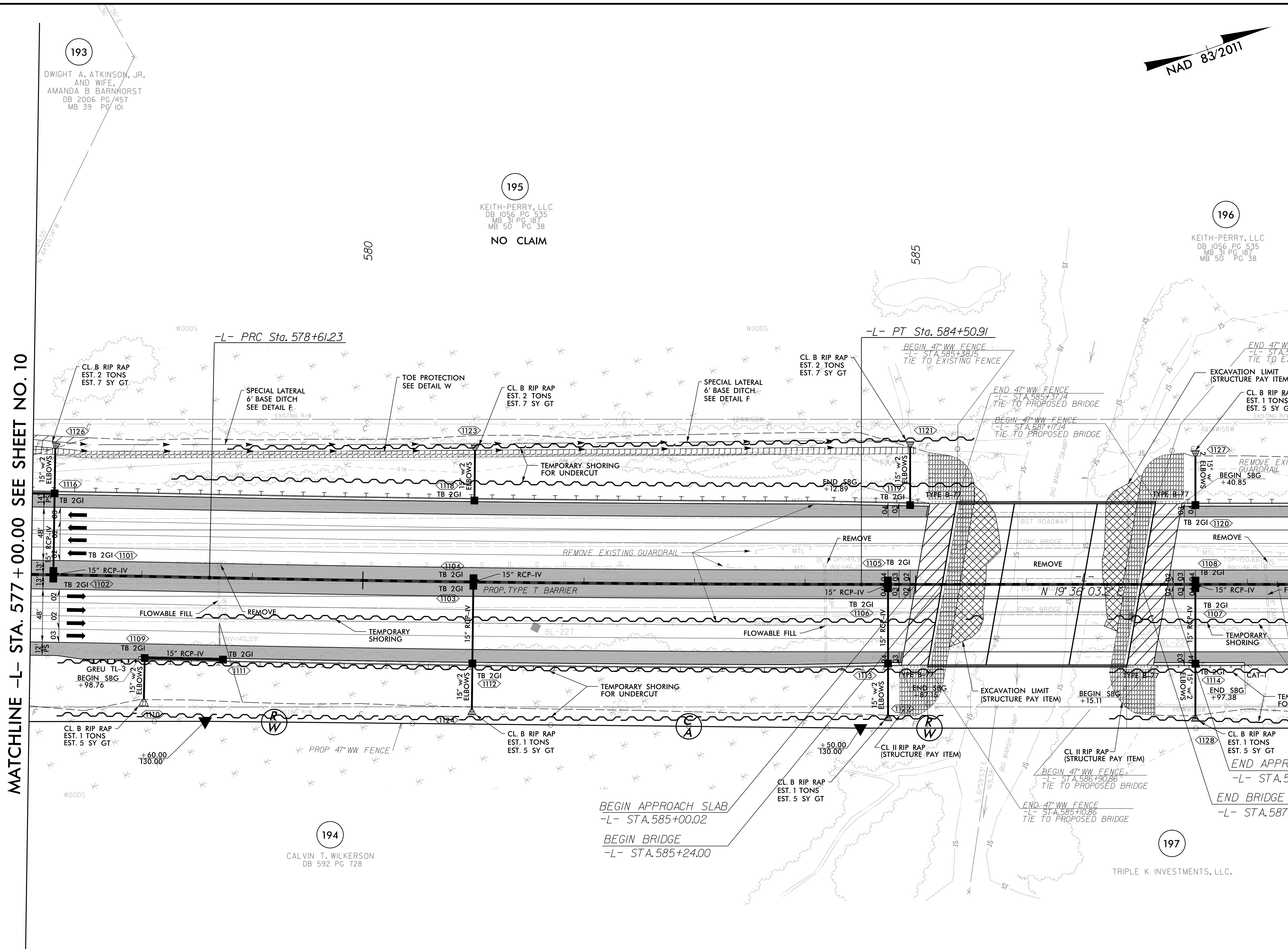
PI Sta 576+78.99 $\Delta = 0^{\circ} 43' 57.9" (RT)$ $D = 0^{\circ} 12' 03.7"$ $L = 364.49'$ $T = 182.25'$ $R = 28,500.00'$	PI Sta 16+06.46 $\Delta = 3^{\circ} 03' 10.8" (LT)$ $D = 0^{\circ} 29' 53.6"$ $L = 612.78'$ $T = 306.46'$ $R = 11,500.00'$ $RO = NC$	PI Sta 21+04.05 $\Delta = 18^{\circ} 06' 45.3" (RT)$ $D = 4^{\circ} 46' 28.7"$ $L = 379.35'$ $T = 191.27'$ $R = 1,200.00'$ $RO = 192'$	PI Sta 30+01.84 $\Delta = 36^{\circ} 39' 06.9" (RT)$ $D = 4^{\circ} 46' 28.7"$ $L = 767.64'$ $T = 397.47'$ $R = 1,200.00'$ $RO = 192'$
---	---	---	---

FOR -L- PROFILE SEE SHEET 54
 FOR -Y4- PROFILE SEE SHEET 84
 FOR -SR4- PROFILE SEE SHEET 100
 FOR -Y4DRI- PROFILE, SEE SHEET 102
 FOR DITCH DETAILS, SEE SHEETS 2D-1 THRU 2D-3
 FOR STRUCTURE PLANS, SEE SHEETS S4-1 THRU S4-29

5/14/2022
 R:\Projects\2022\1-5987B\rdy_psh_10.dgn
 SAMUEL J. HOWARD
 DB 91 PG 357
 DB 684 PG 350
 DB 668 PG 357
 DB 64 PG 274

5/14/99
R:\Projects\15987b_rdy_psh.11.dgn
1/21/2022
W:\15987b_rdy_psh.11.dgn

PROJECT REFERENCE NO. <i>1-5987B</i>		SHEET NO. <i>11</i>	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		PROFESSIONAL SEAL 22606 DAVID C. WALKER MOTT MACDONALD 1 & E, LLC LICENSE NO. F-0669	
PROFESSIONAL SEAL 036821 DAVID W. REEG MOTT MACDONALD 1 & E, LLC LICENSE NO. F-0669		MOTT MACDONALD 1 & E, LLC 7621 Purfoy Rd, Suite 115 Fuquay-Varina, NC 27526 www.mottmac.com/americas	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
Prepared in the Office of:		M	



MATCHLINE -L- STA. 577 + 00.00 SEE SHEET NO. 10

MATCHLINE -L- STA. 589 + 00.00 SEE SHEET NO. 12

-L-




<i>PI Sta 576+78.99</i>	<i>PI Sta 581+56.08</i>
$\Delta = 0^{\circ} 43' 57.9''$ (RT)	$\Delta = 1^{\circ} 11' 07.7''$ (LT)
$D = 0^{\circ} 12' 03.7''$	$D = 0^{\circ} 12' 03.7''$
$L = 364.49'$	$L = 589.68'$
$T = 182.25'$	$T = 294.85'$
$R = 28,500.00'$	$R = 28,500.00'$

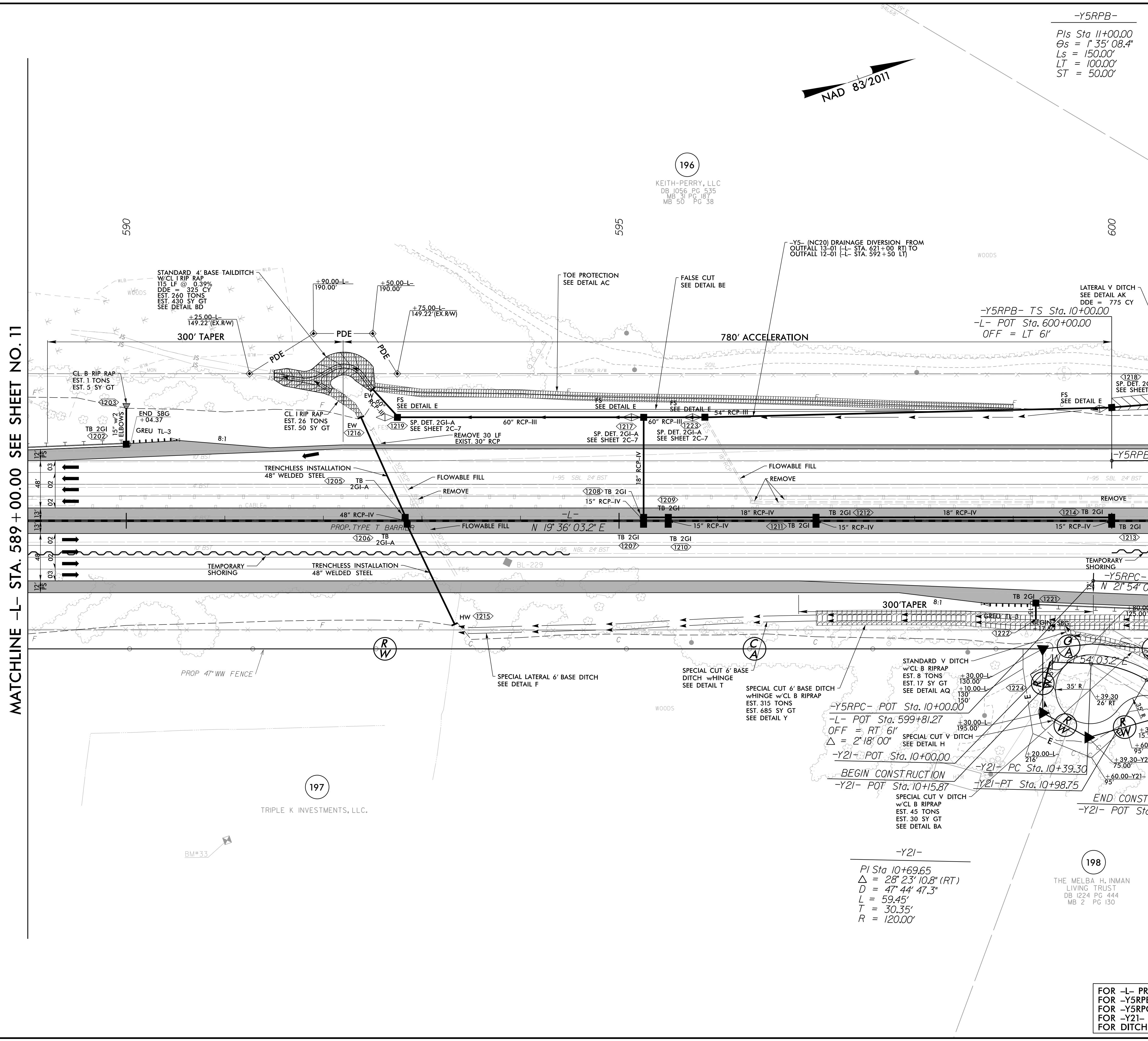
LEGEND

- PROPOSED PAVED SHOULDER
- PROPOSED APPROACH SLAB

FOR -L- PROFILE SEE SHEET 55
FOR DITCH DETAILS, SEE SHEETS 2D-1 THRU 2D-3
FOR STRUCTURE PLANS, SEE SHEETS S5-1 THRU S5-64

5/14/99
 4/21/2022
 R:\P\04\15987b_rdy_psh_12.dgn

PROJECT REFERENCE NO. 1-5987B	SHEET NO. 12
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
 NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 22606 DAVID C. WALKER	 NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 036821 LEWIS W. RIGG
MOTT MACDONALD I & E, LLC LICENSE NO. F-0669	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Prepared in the Office of:	 MOTT MACDONALD
7621 Purfoy Rd, Suite 115 Fuquay-Varina, NC 27526 www.mottmac.com/americas	



MATCHLINE -L- STA. 589 + 00.00 SEE SHEET NO. 11

MATCHLINE -L- STA. 601 + 00.00 SEE SHEET NO. 13

LEGEND

 PROPOSED PAVED SHOULDER

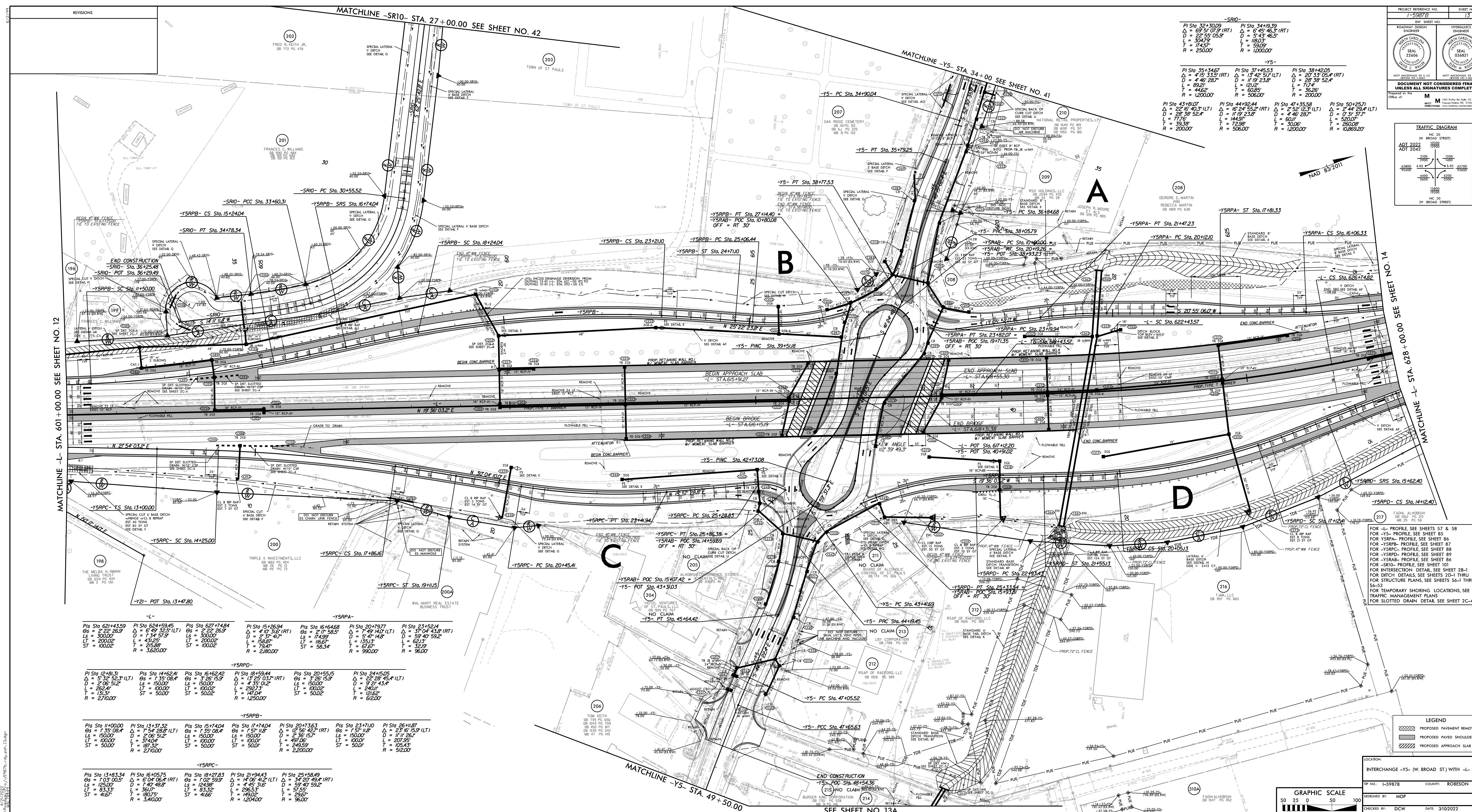
FOR -L- PROFILE SEE SHEET 56
 FOR -Y5RPB- PROFILE, SEE SHEET 87
 FOR -Y5RPC- PROFILE, SEE SHEET 88
 FOR -Y21- PROFILE, SEE SHEET 102
 FOR DITCH DETAILS, SEE SHEETS 2D-1 THRU 2D-3

-Y5RPB-
 $P_s = 11+00.00$
 $\theta_s = 1^\circ 35' 08.4''$
 $L_s = 150.00'$
 $LT = 100.00'$
 $ST = 50.00'$

-Y5RPC- POT Sta. 10+00.00
 -L- POT Sta. 599+81.27
 OFF = RT 6'
 $\Delta = 2^\circ 18' 00''$

-Y21- POT Sta. 10+00.00
 BEGIN CONSTRUCTION
 -Y21- POT Sta. 10+15.87
 -Y21- PC Sta. 10+39.30
 -Y21- PT Sta. 10+98.75
 END CONSTRUCTION
 -Y21- POT Sta. 11+40.00

-Y21-
 $PI\ Sta\ 10+69.65$
 $\Delta = 28^\circ 23' 10.8'' (RT)$
 $D = 47^\circ 44' 47.3''$
 $L = 59.45'$
 $T = 30.35'$
 $R = 120.00'$



REVISIONS

NO.	DESCRIPTION

INTERSECTION DATA

-SRIO- PI Sta 32+30.29 $\Delta = 69^{\circ} 57' 07.9''$ (RT) $D = 22^{\circ} 55' 05.5''$ $L = 504.79'$ $T = 174.57'$ $R = 1200.00'$	-YS- PI Sta 34+02.39 $\Delta = 6^{\circ} 45' 46.3''$ (RT) $D = 27^{\circ} 33' 05.4''$ (RT) $L = 71.74'$ $T = 36.26'$ $R = 2000.00'$
-YS- PI Sta 35+34.67 $\Delta = 4^{\circ} 46' 28.7''$ (RT) $D = 28^{\circ} 38' 52.4''$ $L = 177.75'$ $T = 39.38'$ $R = 2000.00'$	-YS- PI Sta 37+45.53 $\Delta = 15^{\circ} 42' 57.1''$ (LT) $D = 11^{\circ} 19' 23.8''$ $L = 60.85'$ $T = 14.63'$ $R = 506.00'$
-YS- PI Sta 38+42.05 $\Delta = 27^{\circ} 33' 05.4''$ (RT) $D = 28^{\circ} 38' 52.4''$ $L = 177.74'$ $T = 36.26'$ $R = 2000.00'$	-YS- PI Sta 44+06.44 $\Delta = 16^{\circ} 54' 55.2''$ (RT) $D = 11^{\circ} 19' 23.8''$ $L = 60.85'$ $T = 14.63'$ $R = 506.00'$
-YS- PI Sta 47+35.58 $\Delta = 2^{\circ} 44' 22.4''$ (LT) $D = 4^{\circ} 46' 28.7''$ $L = 60.85'$ $T = 7.28'$ $R = 1200.00'$	-YS- PI Sta 50+25.71 $\Delta = 2^{\circ} 44' 22.4''$ (LT) $D = 4^{\circ} 46' 28.7''$ $L = 60.85'$ $T = 7.28'$ $R = 1089.20'$

PROJECT REFERENCE NO. 1-5987B
 SHEET NO. 13

ROADWAY DESIGN ENGINEER
 M. J. CARROLL
 REG. NO. 22648
 STATE OF OHIO

HYDRAULICS ENGINEER
 M. J. CARROLL
 REG. NO. 22648
 STATE OF OHIO

DATE: 3/10/2022

DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED

TRAFFIC DIAGRAM

ADT 2022
 ADT 2042

GRAPHIC SCALE
 50 25 0 50 100
 PLANS

INTERSECTION DATA

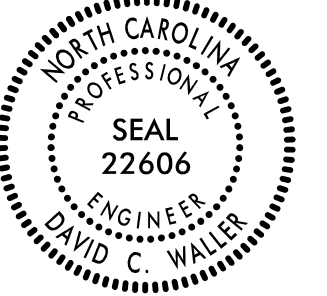


-L- PI Sta 62+43.59 $\Delta = 2^{\circ} 22' 26.9''$ $D = 300.00'$ $L = 200.00'$ $T = 25.88'$ $R = 1000.00'$	-YS- PI Sta 12+81.31 $\Delta = 1^{\circ} 35' 08.4''$ (LT) $D = 2^{\circ} 06' 51.2''$ $L = 262.44'$ $T = 131.31'$ $R = 270.00'$	-YS- PI Sta 14+62.41 $\Delta = 1^{\circ} 35' 08.4''$ $D = 1500.00'$ $L = 1500.00'$ $T = 1500.00'$ $R = 1500.00'$	-YS- PI Sta 16+62.42 $\Delta = 1^{\circ} 35' 08.4''$ $D = 1500.00'$ $L = 1500.00'$ $T = 1500.00'$ $R = 1500.00'$	-YS- PI Sta 18+59.44 $\Delta = 1^{\circ} 35' 08.4''$ $D = 1500.00'$ $L = 1500.00'$ $T = 1500.00'$ $R = 1500.00'$	-YS- PI Sta 20+55.15 $\Delta = 1^{\circ} 35' 08.4''$ $D = 1500.00'$ $L = 1500.00'$ $T = 1500.00'$ $R = 1500.00'$	-YS- PI Sta 24+15.05 $\Delta = 22^{\circ} 28' 45.4''$ (LT) $D = 59^{\circ} 40' 59.2''$ $L = 927.434'$ $T = 32.9'$ $R = 960.00'$
-YS- PI Sta 15+26.94 $\Delta = 4^{\circ} 10' 31.6''$ (RT) $D = 2^{\circ} 37' 41.7''$ $L = 156.87'$ $T = 79.47'$ $R = 2000.00'$	-YS- PI Sta 16+62.41 $\Delta = 1^{\circ} 35' 08.4''$ $D = 1500.00'$ $L = 1500.00'$ $T = 1500.00'$ $R = 1500.00'$	-YS- PI Sta 17+47.04 $\Delta = 1^{\circ} 35' 08.4''$ $D = 1500.00'$ $L = 1500.00'$ $T = 1500.00'$ $R = 1500.00'$	-YS- PI Sta 20+73.63 $\Delta = 12^{\circ} 56' 42.9''$ (RT) $D = 2^{\circ} 36' 15.7''$ $L = 491.06'$ $T = 147.04'$ $R = 2200.00'$	-YS- PI Sta 23+71.00 $\Delta = 1^{\circ} 35' 08.4''$ $D = 1500.00'$ $L = 1500.00'$ $T = 1500.00'$ $R = 1500.00'$	-YS- PI Sta 26+18.87 $\Delta = 23^{\circ} 46' 15.9''$ (LT) $D = 11^{\circ} 19' 23.8''$ $L = 60.85'$ $T = 207.95'$ $R = 512.00'$	-YS- PI Sta 31+31.03 $\Delta = 1^{\circ} 35' 08.4''$ $D = 1500.00'$ $L = 1500.00'$ $T = 1500.00'$ $R = 1500.00'$
-YS- PI Sta 13+83.34 $\Delta = 1^{\circ} 35' 08.4''$ $D = 1500.00'$ $L = 1500.00'$ $T = 1500.00'$ $R = 1500.00'$	-YS- PI Sta 16+05.75 $\Delta = 1^{\circ} 35' 08.4''$ $D = 1500.00'$ $L = 1500.00'$ $T = 1500.00'$ $R = 1500.00'$	-YS- PI Sta 18+27.23 $\Delta = 1^{\circ} 35' 08.4''$ $D = 1500.00'$ $L = 1500.00'$ $T = 1500.00'$ $R = 1500.00'$	-YS- PI Sta 21+94.43 $\Delta = 14^{\circ} 18' 41.2''$ (LT) $D = 4^{\circ} 46' 28.7''$ $L = 60.85'$ $T = 29.67'$ $R = 1200.00'$	-YS- PI Sta 25+58.49 $\Delta = 59^{\circ} 40' 59.2''$ $D = 57^{\circ} 55'$ $L = 57.55'$ $T = 29.67'$ $R = 960.00'$	-YS- PI Sta 31+31.03 $\Delta = 1^{\circ} 35' 08.4''$ $D = 1500.00'$ $L = 1500.00'$ $T = 1500.00'$ $R = 1500.00'$	-YS- PI Sta 34+02.39 $\Delta = 6^{\circ} 45' 46.3''$ (RT) $D = 27^{\circ} 33' 05.4''$ (RT) $L = 71.74'$ $T = 36.26'$ $R = 2000.00'$

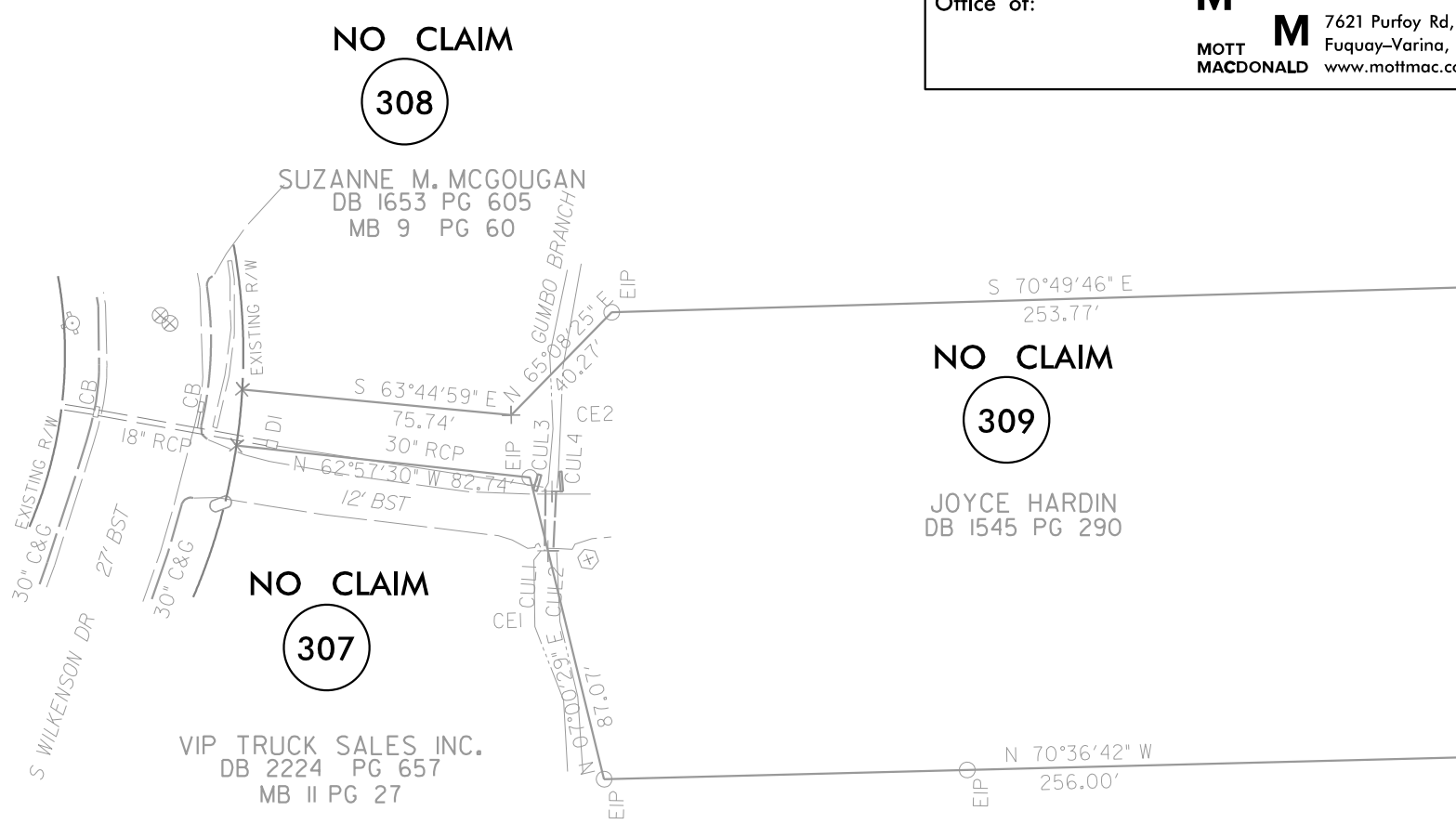
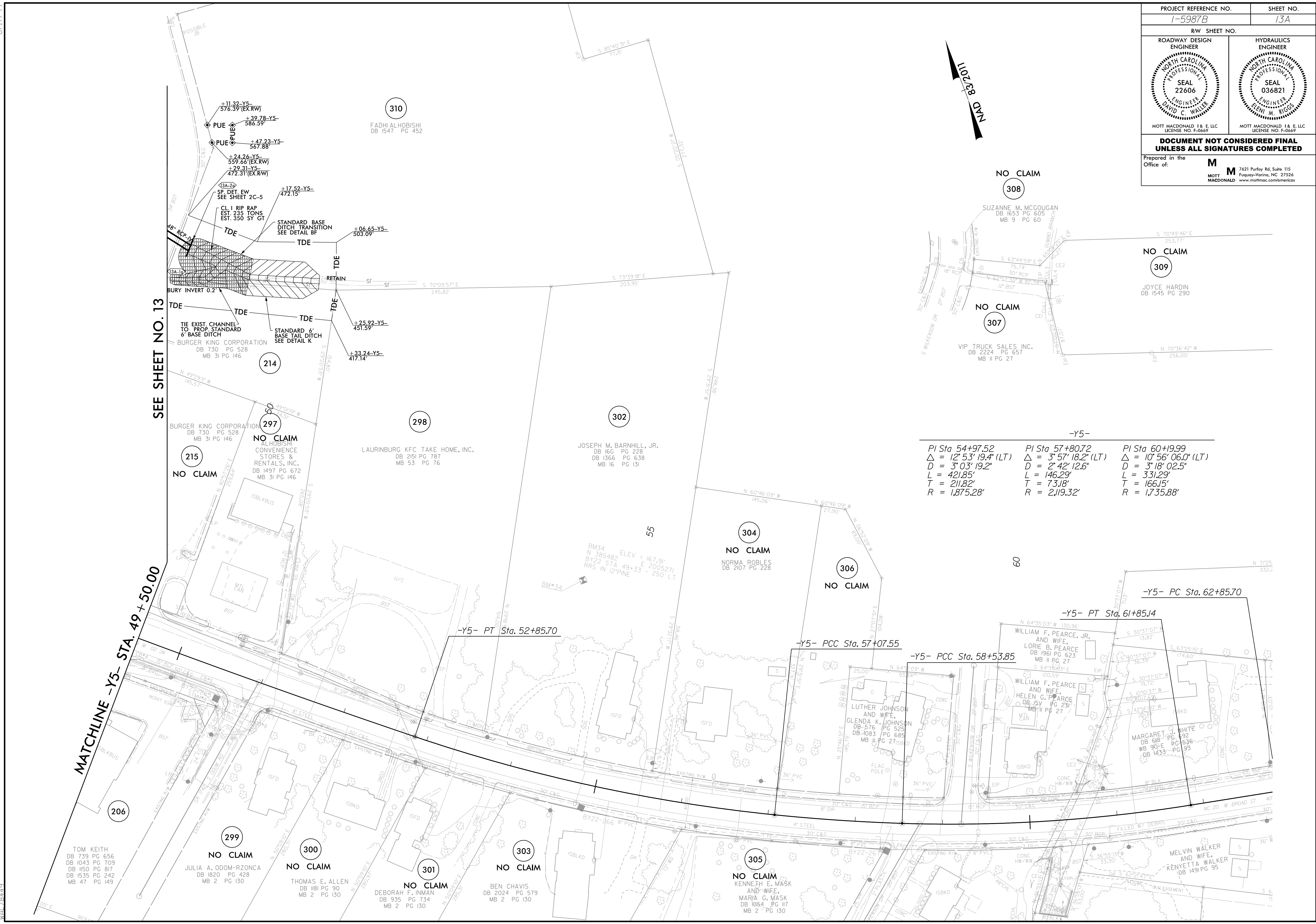
FOR -L- PROFILE SEE SHEETS 57 & 58
 FOR -YS- PROFILE SEE SHEET 85
 FOR -YSRB- PROFILE SEE SHEET 86
 FOR -YSRAB- PROFILE SEE SHEET 87
 FOR -YSRAC- PROFILE SEE SHEET 88
 FOR -YSRDB- PROFILE SEE SHEET 89
 FOR -YSRAB- PROFILE SEE SHEET 86
 FOR -SRIO- PROFILE SEE SHEET 101
 FOR INTERSECTION DETAIL SEE SHEET 2B-1
 FOR DITCH DETAILS SEE SHEETS 2D-1 THRU 2D-3
 FOR STRUCTURE PLANS SEE SHEETS 36-1 THRU 36-3
 FOR TEMPORARY SHOULDER LOCATIONS, SEE TRAFFIC MANAGEMENT PLANS
 FOR SLOTTED DRAIN DETAIL SEE SHEET 2C-4

LEGEND

- PROPOSED PAVEMENT REMOVAL
- PROPOSED PAVED SHOULDER
- PROPOSED APPROACH SLAB

LOCATION: INTERCHANGE -YS- (W. BROAD ST.) WITH -L- (I-95)
 TR NO: 1-5987B COUNTY: ROBESON
 DESIGNED BY: MDP
 CHECKED BY: DCW DATE: 3/10/2022

PROJECT REFERENCE NO. 1-5987B		SHEET NO. 13A	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
			
MOTT MACDONALD I & E LLC LICENSE NO. F-0669		MOTT MACDONALD I & E LLC LICENSE NO. F-0669	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
Prepared in the Office of:			
		7621 Purfoy Rd, Suite 115 Fuquay-Varina, NC 27526 www.mottmac.com/americas	



-Y5-		
PI Sta 54+97.52 Δ = 12' 53" 19.4" (LT) D = 3' 03" 19.2" L = 421.85' T = 211.82' R = 1,875.28'	PI Sta 57+80.72 Δ = 3' 57" 18.2" (LT) D = 2' 42" 12.6" L = 146.29' T = 73.18' R = 2,119.32'	PI Sta 60+99.99 Δ = 10' 56" 06.0" (LT) D = 3' 18" 02.5" L = 331.29' T = 166.15' R = 1,735.88'

MATCHLINE -Y5- STA. 49+50.00

SEE SHEET NO. 13

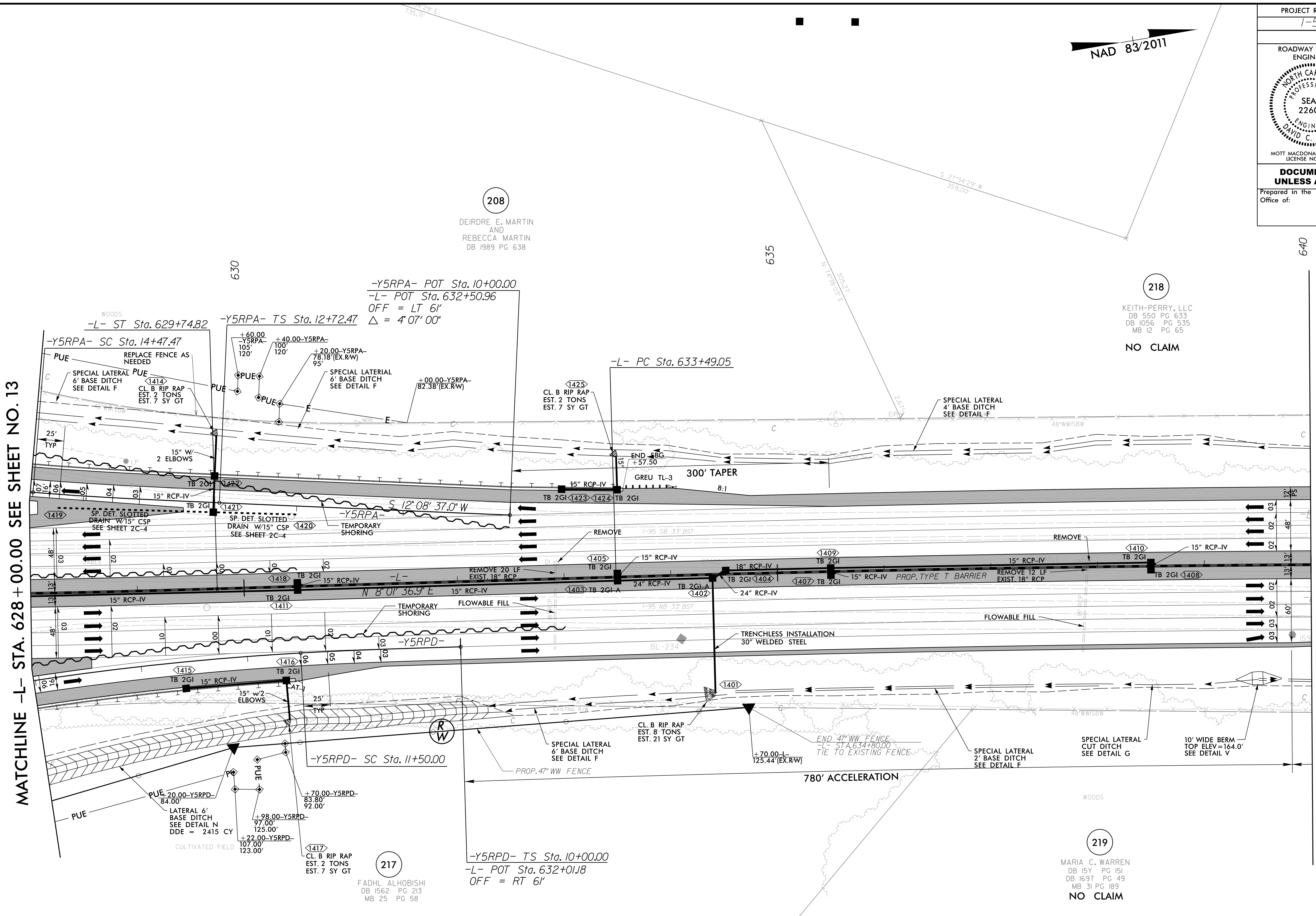
4/21/2022 R:\Projects\15987B_rdy.psh_13A.dgn

5/14/99

1/21/2022
R:\P\0\0\15987b_rdy_psh_14.dgn
W:\15987b_14

PROJECT REFERENCE NO. <i>1-5987B</i>		SHEET NO. <i>14</i>	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		SEAL 22606 DAVID C. WALKER	
MOTT MACDONALD 1 & E, LLC LICENSE NO. F-0669		MOTT MACDONALD 1 & E, LLC LICENSE NO. F-0669	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
Prepared in the Office of:		MOTT MACDONALD	
		7621 Purfoy Rd, Suite 115 Fuquay-Varina, NC 27526 www.mottmac.com/americas	

NAD 83/2011



208
DEIRDRE E. MARTIN
AND
REBECCA MARTIN
DB 1989 PG 638

218
KEITH-PERRY, LLC
DB 550 PG 633
DB 1056 PG 535
MB 12 PG 65
NO CLAIM

217
FADHL ALHOBISHI
DB 1562 PG 213
MB 25 PG 59

219
MARIA C. WARREN
DB 159 PG 151
DB 1697 PG 49
MB 31 PG 189
NO CLAIM

-L-
Pls Sta 627+74.84 PI Sta 637+66.64
Os = 2° 22' 26.9" Δ = 1° 40' 44" (RT)
Ls = 300.00' D = 0° 12' 03.7"
LT = 200.02' L = 835.12'
ST = 100.02' T = 417.59'
R = 28,500.00'

-Y5RPA-
Pls Sta 13+89.15 PI Sta 15+26.94
Os = 2° 17' 59.0" Δ = 4° 10' 31.6" (RT)
Ls = 175.00' D = 2° 37' 41.7"
LT = 116.68' L = 158.87'
ST = 58.34' T = 79.47'
R = 2,180.00'

-Y5RPD-
Pls Sta 11+00.00 PI Sta 12+81.31
Os = 1° 35' 08.4" Δ = 5° 32' 52.3" (LT)
Ls = 150.00' D = 2° 06' 51.2"
LT = 100.00' L = 262.41'
ST = 50.00' T = 131.31'
R = 2,710.00'

LEGEND

▬ PROPOSED SHOULDER

FOR -L- PROFILE, SEE SHEET 59
FOR -Y5RPA- PROFILE, SEE SHEET 86
FOR -Y5RPD- PROFILE, SEE SHEET 89
FOR DITCH DETAILS, SEE SHEETS 2D-1 THRU 2D-3
FOR SLOTTED DRAIN DETAIL SEE SHEET 2C-4

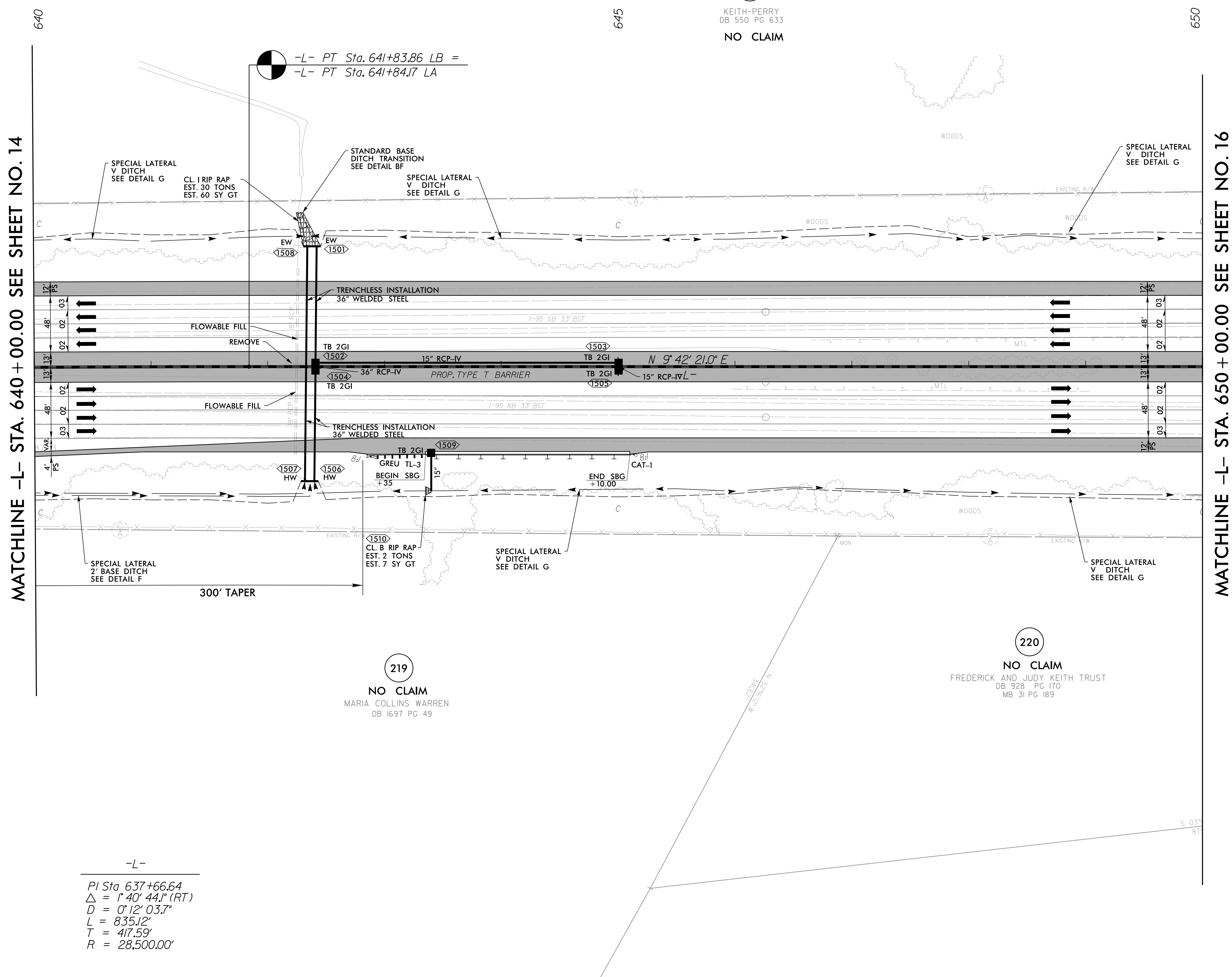
MATCHLINE -L- STA. 628 + 00.00 SEE SHEET NO. 13

MATCHLINE -L- STA. 640 + 00.00 SEE SHEET NO. 15

5/14/99
4/21/2022
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W:\178114

NAD 83/2011

PROJECT REFERENCE NO. 1-5987B	SHEET NO. 15
RW SHEET NO.	
ROADWAY DESIGN ENGINEER DAVID C. YALLER SEAL 22606 MOTT MACDONALD I & E, LLC LICENSE NO. F-0669	HYDRAULICS ENGINEER ALEX W. REGG SEAL 036821 MOTT MACDONALD I & E, LLC LICENSE NO. F-0669
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Prepared in the Office of:	M MOTT MACDONALD 7621 Purfoy Rd, Suite 115 Fuquay-Varina, NC 27526 www.mottmac.com/americas



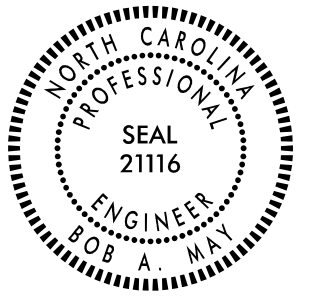
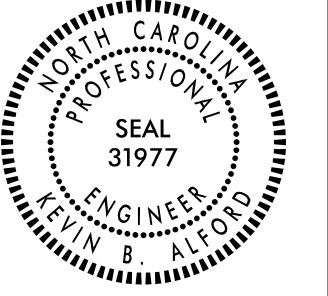

-L-
PI Sta. 637+66.64
 $\Delta = 1^{\circ} 40' 44.1" (RT)$
 $D = 0^{\circ} 12' 03.7"$
 $L = 835.12'$
 $T = 417.59'$
 $R = 28,500.00'$

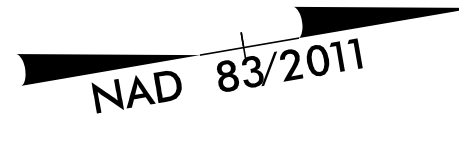
LEGEND

█ PROPOSED PAVED SHOULDER

FOR -L- PROFILE, SEE SHEET 60
FOR DITCH DETAILS, SEE SHEETS 2D-1 THRU 2D-3

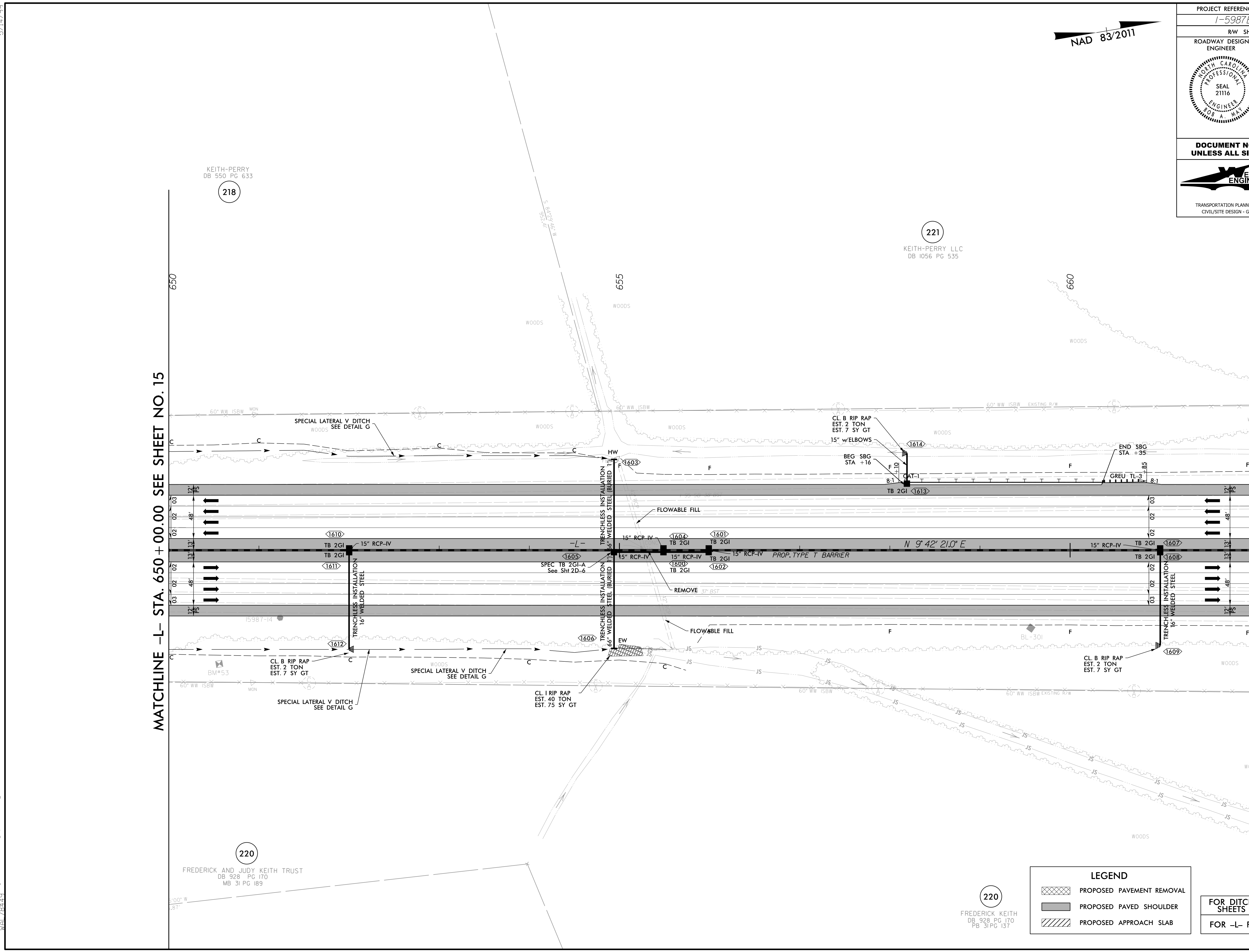
5/14/99

PROJECT REFERENCE NO. 1-5987B		SHEET NO. 16	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
		1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107	
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION			



MATCHLINE -L- STA. 650 + 00.00 SEE SHEET NO. 15

MATCHLINE -L- STA. 662 + 00.00 SEE SHEET NO. 17



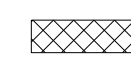
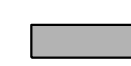
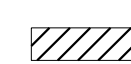
KEITH-PERRY
DB 550 PG 633
218

KEITH-PERRY LLC
DB 1056 PG 535
221

FREDERICK AND JUDY KEITH TRUST
DB 928 PG 170
MB 31 PG 189
220

FREDERICK KEITH
DB 928 PG 170
PB 31 PG 137
220

LEGEND


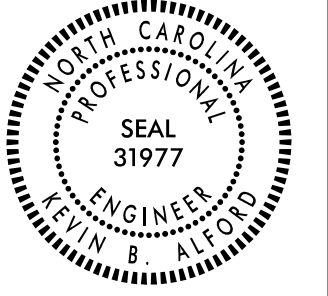

-  PROPOSED PAVEMENT REMOVAL
-  PROPOSED PAVED SHOULDER
-  PROPOSED APPROACH SLAB

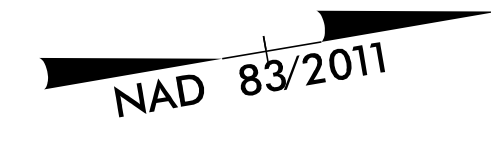
FOR DITCH DETAILS SEE SHEETS D-1 THRU D-3
FOR -L- PROFILE SEE SHEET 61

R:\P\4/28/2002\15987b_rdy_psh_16.dgn
W:\15987B\16

5/14/99

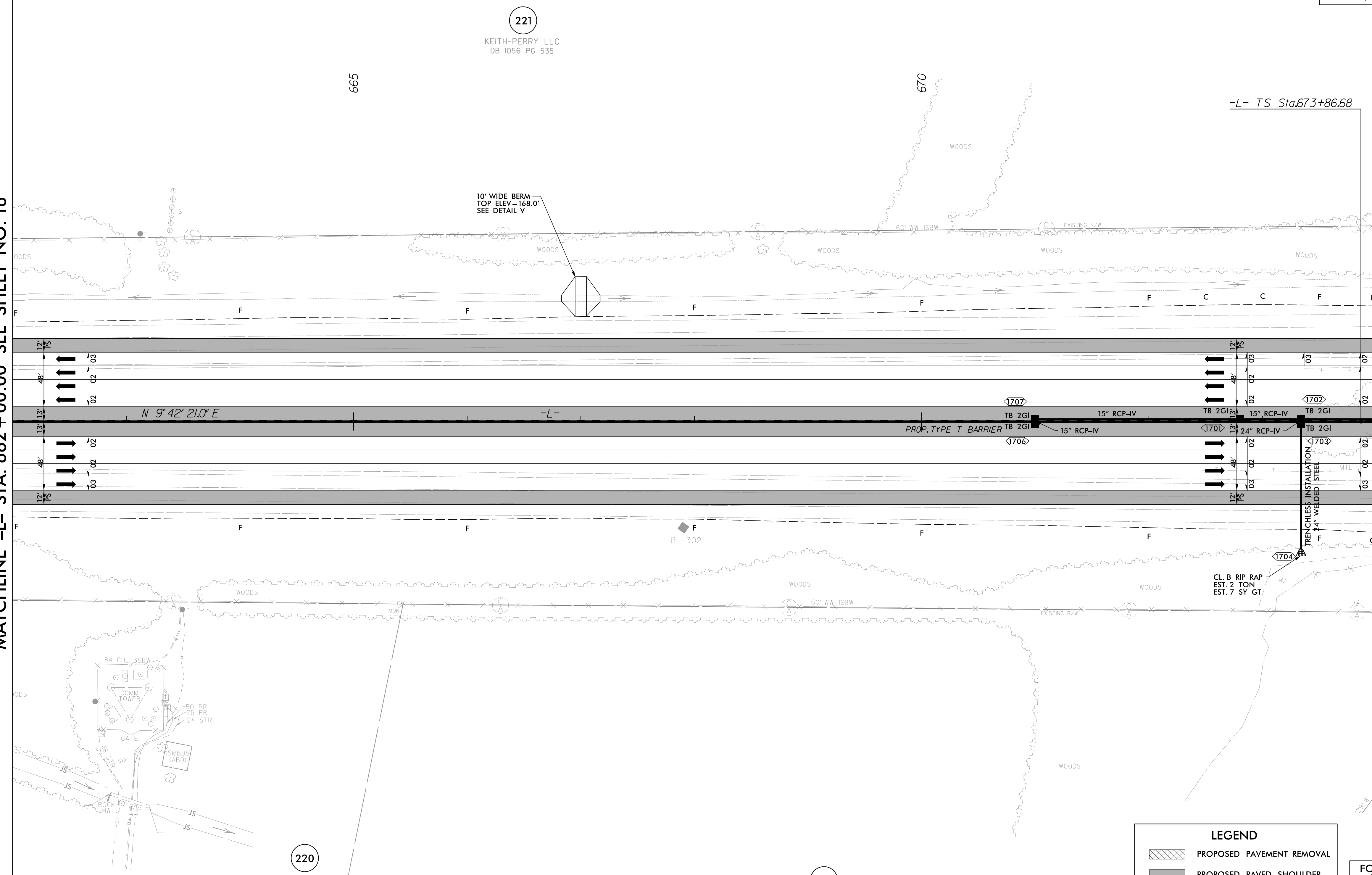
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W:\15987b_rdy_psh_17.dgn

PROJECT REFERENCE NO. 1-5987B	SHEET NO. 17
RW SHEET NO.	
ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER 
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
 1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107 TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION	



MATCHLINE -L- STA. 662 + 00.00 SEE SHEET NO. 16

MATCHLINE -L- STA. 674 + 00.00 SEE SHEET NO. 18

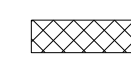




221
KEITH-PERRY LLC
DB 1056 PG 535

220
FREDERICK KEITH
DB 928 PG 170
PB 31 PG 137

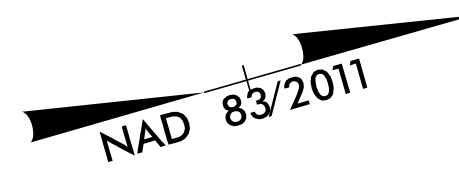
222
KEITH-PERRY LLC
DB 1056 PG 535
PB 31 PG 137

LEGEND

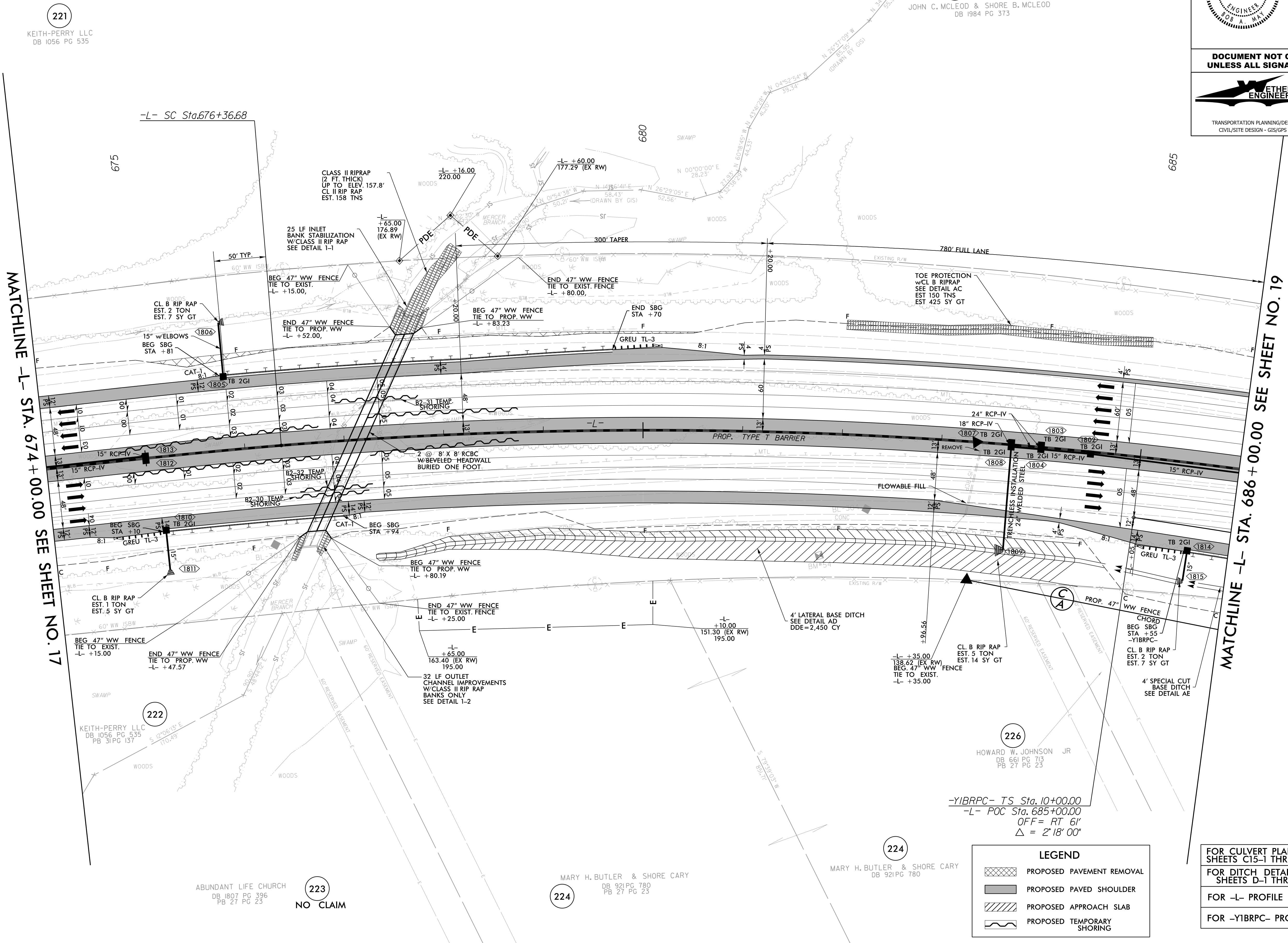
-  PROPOSED PAVEMENT REMOVAL
-  PROPOSED PAVED SHOULDER
-  PROPOSED APPROACH SLAB

FOR DITCH DETAILS SEE SHEETS D-1 THRU D-3
FOR -L- PROFILE SEE SHEET 62

PIs Sta 675+53.35 P I STA. 685+01.00 PIs Sta 694+27.86
 $\Theta_s = 1' 35'' 29.6''$ $\Delta = 2' 44'' 41.8'' (RT)$ $\Theta_s = 1' 35'' 29.6''$
 $L_s = 250.00'$ $D = 1' 16'' 23.7''$ $L_s = 250.00'$
 $LT = 166.67'$ $L = 1,707.84'$ $LT = 166.67'$
 $ST = 83.34'$ $T = 864.32'$ $ST = 83.34'$
 $R = 4,500.00'$
 $SE = 0.05$
 $RO = 250.00'$



PROJECT REFERENCE NO. 1-5987B		SHEET NO. 18	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
		1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107	
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION			



LEGEND

- PROPOSED PAVEMENT REMOVAL
- PROPOSED PAVED SHOULDER
- PROPOSED APPROACH SLAB
- PROPOSED TEMPORARY SHORING

FOR CULVERT PLANS SEE SHEETS C15-1 THRU C15-13
 FOR DITCH DETAILS SEE SHEETS D-1 THRU D-3
 FOR -L- PROFILE SEE SHEET 63
 FOR -YIBRPC- PROFILE SEE SHEET 93

MATCHLINE -L- STA. 674 + 00.00 SEE SHEET NO. 17

MATCHLINE -L- STA. 686 + 00.00 SEE SHEET NO. 19

221
KEITH-PERRY LLC
DB 1056 PG 535

222
KEITH-PERRY LLC
DB 1056 PG 535
PB 31 PG 137

223
ABUNDANT LIFE CHURCH
DB 1807 PG 396
PB 27 PG 23
NO CLAIM

224
MARY H. BUTLER & SHORE CARY
DB 92 PG 780
PB 27 PG 23

224
MARY H. BUTLER & SHORE CARY
DB 92 PG 780

226
HOWARD W. JOHNSON JR
DB 661 PG 713
PB 27 PG 23

-YIBRPC- TS Sta. 10+00.00
 -L- POC Sta. 685+00.00
 OFF = RT 6'
 $\Delta = 2' 18'' 00''$

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 4/28/2022
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4/28/2022
 R:\P\4/28/2022\5987b_rdy_psh_19.dgn
 5/14/99

-L-
 Pls Sta 675+53.35 PI STA.685+01.00 Pls Sta 694+27.86
 $\theta_s = 1^{\circ} 35' 29.6''$ $\Delta = 21^{\circ} 44' 41.8''$ (RT) $\theta_s = 1^{\circ} 35' 29.6''$
 $L_s = 250.00'$ $D = 1^{\circ} 16' 23.7''$ $L_s = 250.00'$
 $LT = 166.67'$ $L = 1,707.84'$ $LT = 166.67'$
 $ST = 83.34'$ $T = 864.32'$ $ST = 83.34'$
 $R = 4,500.00'$
 $SE = 0.05$
 $RO = 250.00'$

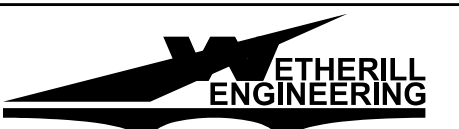
-YIBRPB-
 Pls Sta 16+76.86 PI STA.19+36.27
 $\theta_s = 2^{\circ} 45' 16.6''$ $\Delta = 12^{\circ} 36' 36.6''$ (LT)
 $L_s = 175.00'$ $D = 3^{\circ} 08' 53.2''$
 $LT = 116.68'$ $L = 400.56'$
 $ST = 58.35'$ $T = 201.09'$
 $R = 1,820.00'$
 $SE = 0.07$

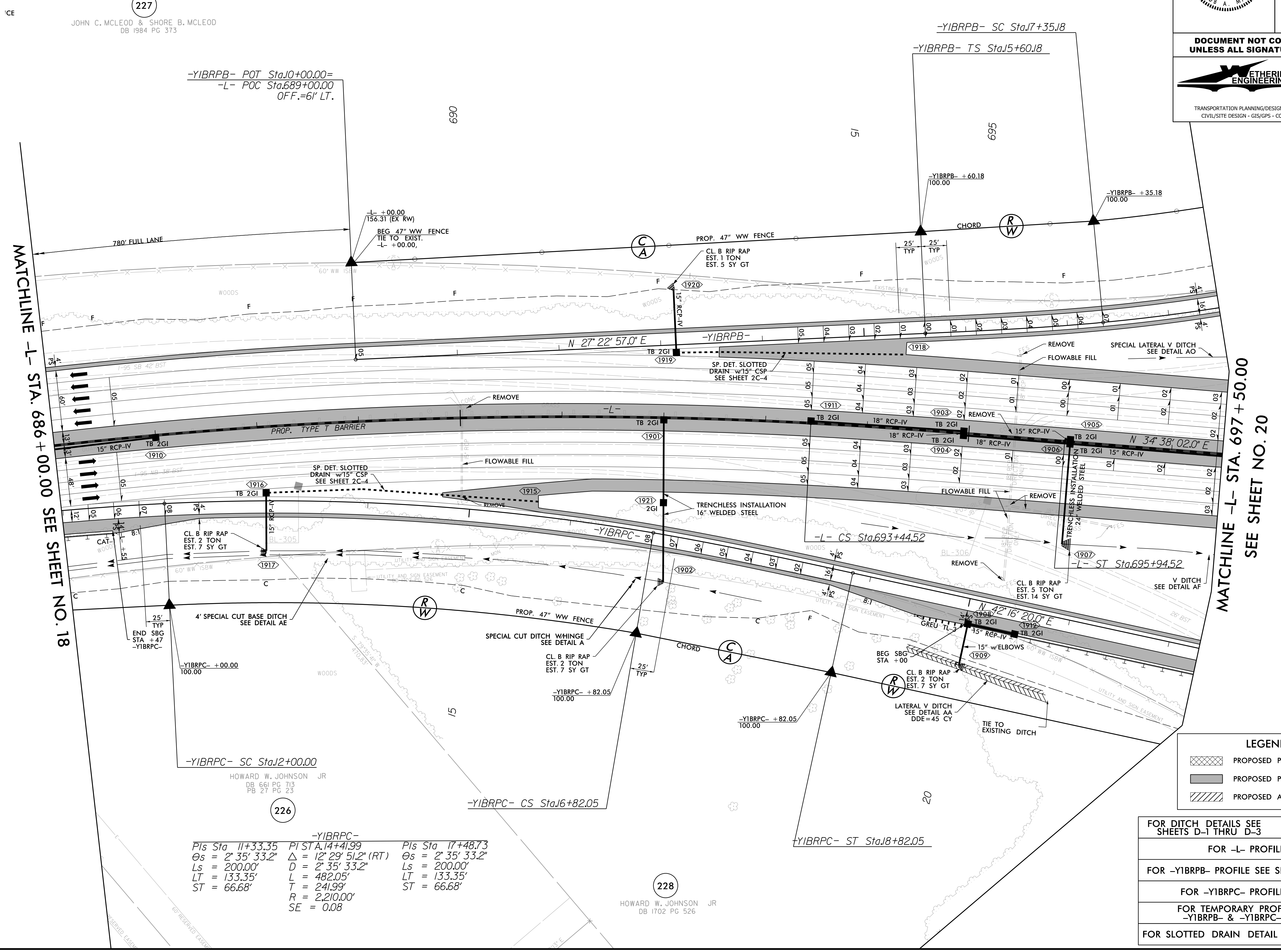
-YIBRPB- POT Sta.10+00.00=
-L- POC Sta.689+00.00
 OFF.=61' LT.

-YIBRPC- SC Sta.12+00.00
 HOWARD W. JOHNSON JR
 DB 661 PG 713
 PB 27 PG 23

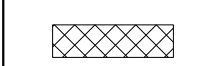

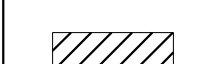
-YIBRPC-
 Pls Sta 11+33.35 PI STA.14+41.99 Pls Sta 17+48.73
 $\theta_s = 2^{\circ} 35' 33.2''$ $\Delta = 12^{\circ} 29' 51.2''$ (RT) $\theta_s = 2^{\circ} 35' 33.2''$
 $L_s = 200.00'$ $D = 2^{\circ} 35' 33.2''$ $L_s = 200.00'$
 $LT = 133.35'$ $L = 482.05'$ $LT = 133.35'$
 $ST = 66.68'$ $T = 241.99'$ $ST = 66.68'$
 $R = 2,210.00'$
 $SE = 0.08$

228
 HOWARD W. JOHNSON JR
 DB 1702 PG 526

PROJECT REFERENCE NO. 1-5987B	SHEET NO. 19
ROADWAY DESIGN ENGINEER SEAL 21116	HYDRAULICS ENGINEER SEAL 31977
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
	
1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107	
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION	



LEGEND

-  PROPOSED PAVEMENT REMOVAL
-  PROPOSED PAVED SHOULDER
-  PROPOSED APPROACH SLAB

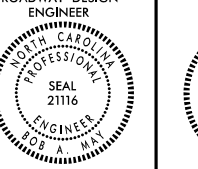
- FOR DITCH DETAILS SEE SHEETS D-1 THRU D-3
- FOR -L- PROFILE SEE SHEET 64
- FOR -YIBRPB- PROFILE SEE SHEETS 92 & 93
- FOR -YIBRPC- PROFILE SEE SHEET 93
- FOR TEMPORARY PROFILE FOR RAMPS -YIBRPB- & -YIBRPC- SEE SHEET 105
- FOR SLOTTED DRAIN DETAIL SEE SHEET 2C-?

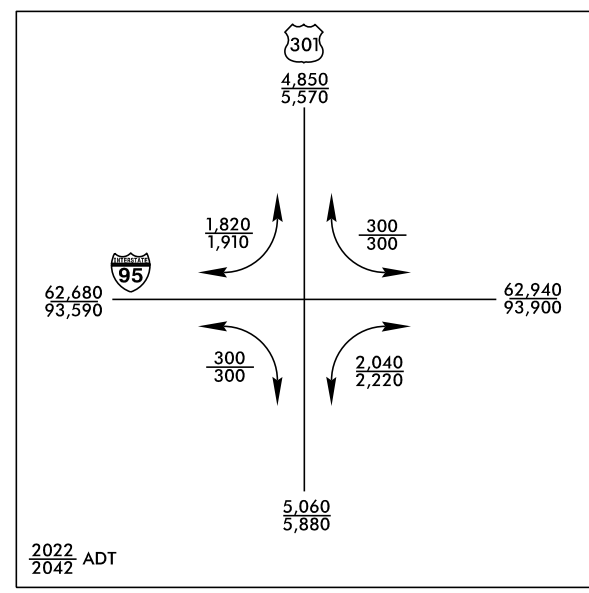
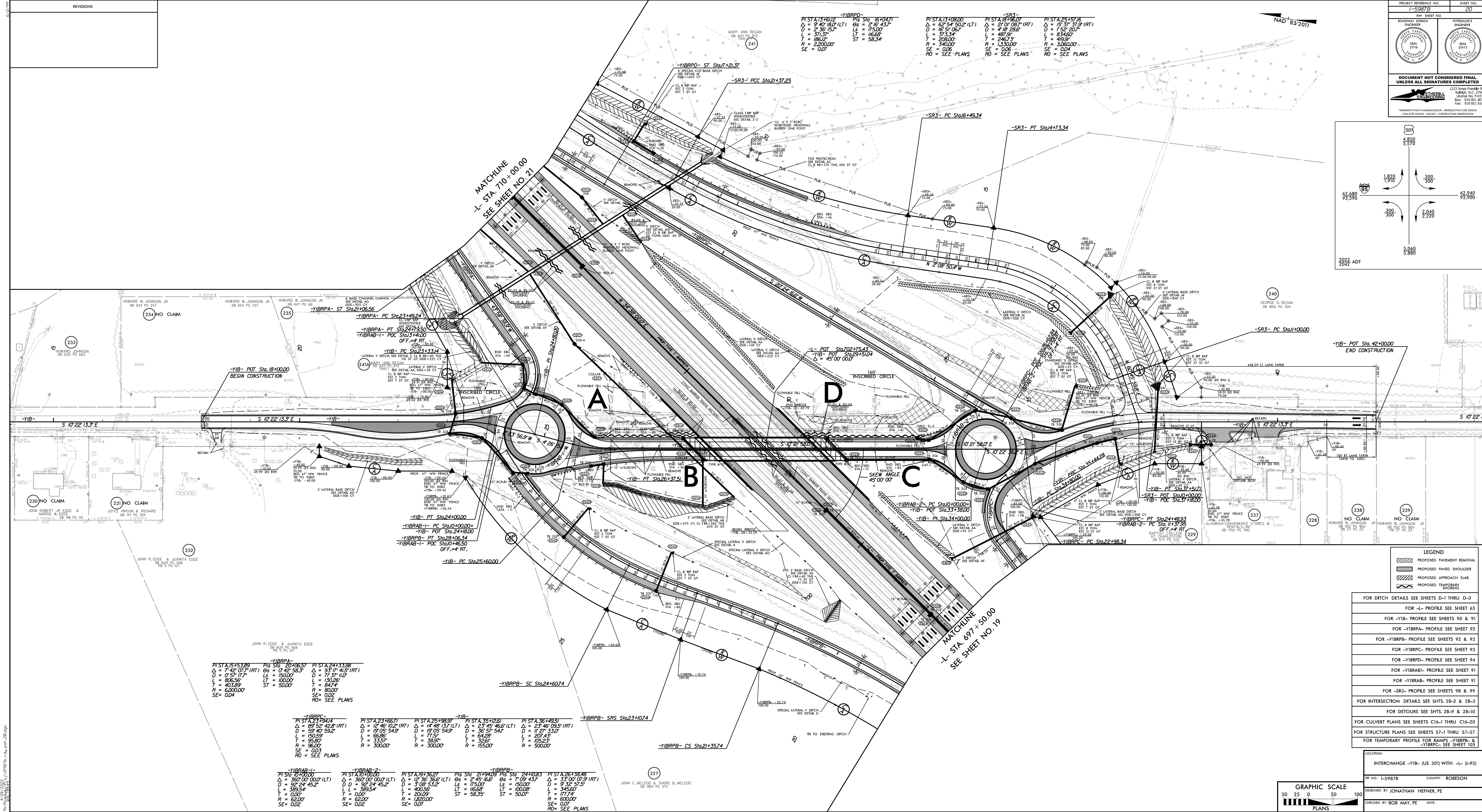
MATCHLINE -L- STA. 686 + 00.00 SEE SHEET NO. 18

MATCHLINE -L- STA. 697 + 50.00 SEE SHEET NO. 20

NO.	DESCRIPTION	DATE

PROJECT REFERENCE NO. 1-5987B
SHEET NO. 20

ROADWAY DESIGN ENGINEER

 TRANSPORTATION PLANNING DESIGN & CONSTRUCTION, INC.
 1222 JOHN F. BISHOP BLVD., SUITE 200
 RALEIGH, NC 27605
 PHONE: 919.951.9077
 FAX: 919.951.9077



-YIBRA-		-YIBRA-		-YIBRA-		-YIBRA-		-YIBRA-	
PI STA	PIG SIG	PI STA	PIG SIG	PI STA	PIG SIG	PI STA	PIG SIG	PI STA	PIG SIG
15+53.80	20+05.57	23+194.4	24+33.98	23+166.7	25+198.97	35+112.6	36+149.5	23+194.4	24+33.98
$\Delta = 7^{\circ} 12' 17.7''$	$\Delta = 0^{\circ} 42' 56.3''$	$\Delta = 12^{\circ} 46' 10.2''$	$\Delta = 53^{\circ} 17' 45.1''$	$\Delta = 12^{\circ} 46' 10.2''$	$\Delta = 14^{\circ} 48' 13.1''$	$\Delta = 23^{\circ} 45' 46.6''$	$\Delta = 23^{\circ} 45' 46.6''$	$\Delta = 7^{\circ} 12' 17.7''$	$\Delta = 0^{\circ} 42' 56.3''$
D = 866.56'	D = 150.00'	D = 150.00'	D = 150.00'	D = 150.00'	D = 150.00'	D = 150.00'	D = 150.00'	D = 866.56'	D = 150.00'
L = 866.56'	L = 150.00'	L = 150.00'	L = 150.00'	L = 150.00'	L = 150.00'	L = 150.00'	L = 150.00'	L = 866.56'	L = 150.00'
T = 403.89'	T = 60.00'	T = 60.00'	T = 60.00'	T = 60.00'	T = 60.00'	T = 60.00'	T = 60.00'	T = 403.89'	T = 60.00'
R = 6000.00'	R = 6000.00'	R = 6000.00'	R = 6000.00'	R = 6000.00'	R = 6000.00'	R = 6000.00'	R = 6000.00'	R = 6000.00'	R = 6000.00'
SE = 0.04	SE = 0.04	SE = 0.02	SE = 0.02	SE = 0.02	SE = 0.02	SE = 0.02	SE = 0.02	SE = 0.04	SE = 0.04
RO = SEE PLANS	RO = SEE PLANS	RO = SEE PLANS	RO = SEE PLANS	RO = SEE PLANS	RO = SEE PLANS	RO = SEE PLANS	RO = SEE PLANS	RO = SEE PLANS	RO = SEE PLANS

LEGEND

- PROPOSED PAVEMENT REMOVAL
- PROPOSED PAVED SHOULDER
- PROPOSED APPROACH SLAB
- PROPOSED TEMPORARY SHOULDER

FOR DITCH DETAILS SEE SHEETS D-1 THRU D-3
 FOR -L- PROFILE SEE SHEET 65
 FOR -YIB- PROFILE SEE SHEETS 90 & 91
 FOR -YIBRA- PROFILE SEE SHEET 92
 FOR -YIBRAB- PROFILE SEE SHEETS 92 & 93
 FOR -YIBRP- PROFILE SEE SHEET 93
 FOR -YIBRAB- PROFILE SEE SHEET 94
 FOR -YIBRAB- PROFILE SEE SHEET 91
 FOR -SR3- PROFILE SEE SHEETS 98 & 99
 FOR INTERSECTION DETAILS SEE SHTS. 28-2 & 28-3
 FOR DETOURS SEE SHTS. 28-9 & 28-10
 FOR CULVERT PLANS SEE SHEETS C16-1 THRU C16-20
 FOR STRUCTURE PLANS SEE SHEETS S7-1 THRU S7-27
 FOR TEMPORARY PROFILE FOR RAMPS -YIBRAB- & -YIBRAB- SEE SHEET 105

LOCATION:
 INTERCHANGE -YIB- (US 301) WITH -L- (I-95)

TR NO. 1-5987B COUNTY: ROBERTSON
 DESIGNED BY: JONATHAN HEFFNER, PE
 CHECKED BY: BOB MAY, PE DATE:

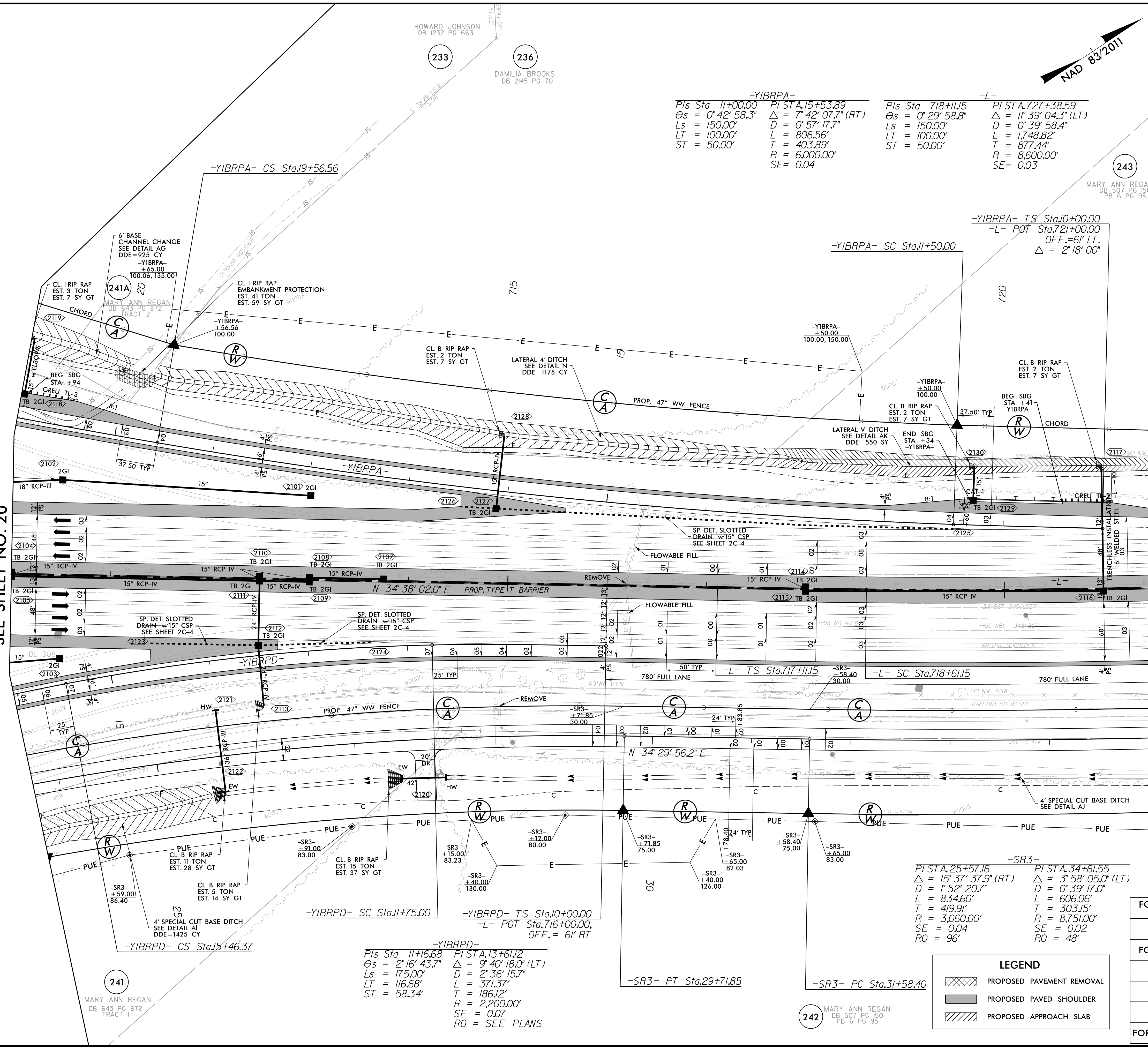
GRAPHIC SCALE
 50 25 0 50 100
 PLANS

5/14/99
4/28/2022
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PROJECT REFERENCE NO. 1-5987B	SHEET NO. 21
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107	
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION	

MATCHLINE -L- STA. 710+00.00
SEE SHEET NO. 20

MATCHLINE -L- STA. 722+00.00 SEE SHEET NO. 22



-YIBRPA-
PIs Sta 11+00.00 PI STA. 15+53.89
 $\Theta_s = 0^\circ 42' 58.3''$ $\Delta = 7^\circ 42' 07.7''$ (RT)
 $L_s = 150.00'$ $D = 0^\circ 57' 17.7''$
 $LT = 100.00'$ $L = 806.56'$
 $ST = 50.00'$ $T = 403.89'$
 $R = 6,000.00'$
 $SE = 0.04$

-L-
PIs Sta 718+11.15 PI STA. 727+38.59
 $\Theta_s = 0^\circ 29' 58.8''$ $\Delta = 1^\circ 39' 04.3''$ (LT)
 $L_s = 150.00'$ $D = 0^\circ 39' 58.4''$
 $LT = 100.00'$ $L = 1,748.82'$
 $ST = 50.00'$ $T = 877.44'$
 $R = 8,600.00'$
 $SE = 0.03$

-YIBRPD-
PIs Sta 11+16.68 PI STA. 13+61.12
 $\Theta_s = 2^\circ 16' 43.7''$ $\Delta = 9^\circ 40' 18.0''$ (LT)
 $L_s = 175.00'$ $D = 2^\circ 36' 15.7''$
 $LT = 116.68'$ $L = 371.37'$
 $ST = 58.34'$ $T = 186.12'$
 $R = 2,200.00'$
 $SE = 0.07$
 $RO = \text{SEE PLANS}$

-SR3-
PI STA. 25+57.16 PI STA. 34+61.55
 $\Delta = 15^\circ 37' 37.9''$ (RT) $\Delta = 3^\circ 58' 05.0''$ (LT)
 $D = 1^\circ 52' 20.7''$ $D = 0^\circ 39' 17.0''$
 $L = 834.60'$ $L = 606.06'$
 $T = 419.91'$ $T = 303.15'$
 $R = 3,060.00'$ $R = 8,751.00'$
 $SE = 0.04$ $SE = 0.02$
 $RO = 96'$ $RO = 48'$

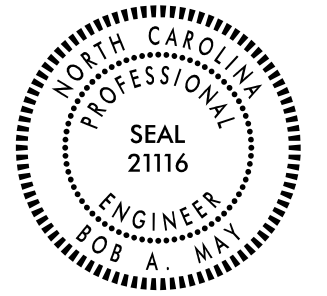
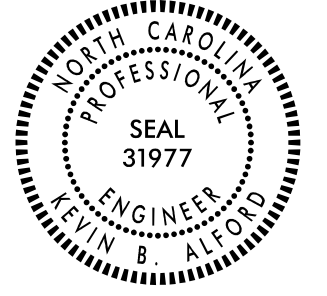

LEGEND

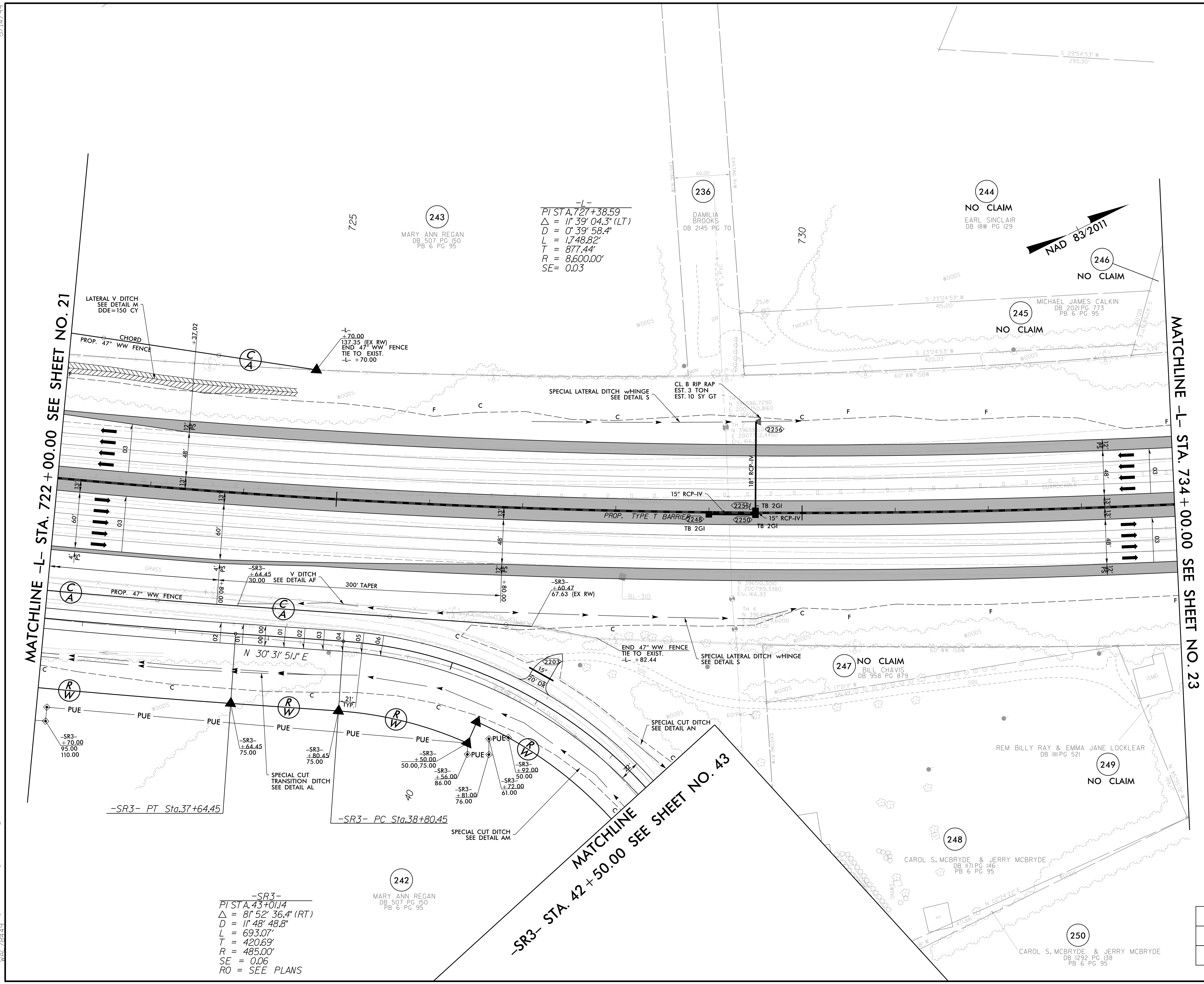
- PROPOSED PAVEMENT REMOVAL
- PROPOSED PAVED SHOULDER
- PROPOSED APPROACH SLAB

- FOR DITCH DETAILS SEE SHEETS D-1 THRU D-3
- FOR -L- PROFILE SEE SHEETS 66 & 67
- FOR -YIBRPA- PROFILE SEE SHEETS 91 & 92
- FOR -YIBRPD- PROFILE SEE SHEET 94
- FOR -SR3- PROFILE SEE SHEETS 98 & 99
- FOR TEMPORARY PROFILE FOR RAMPS -YIBRPA- & -YIBRPD- SEE SHEET 105
- FOR SLOTTED DRAIN DETAIL SEE SHEET 2C-?

MARY ANN REGAN
DB 507 PG 150
PB 6 PG 95

MARY ANN REGAN
DB 643 PG 872
TRACT 1



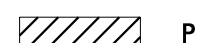
PROJECT REFERENCE NO. 1-5987B	SHEET NO. 22
RW SHEET NO.	
ROADWAY DESIGN ENGINEER EARL SINCLAIR DB 187 PG 129	HYDRAULICS ENGINEER MICHAEL JAMES CALKIN DB 202 PG 773 PB 6 PG 95
 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
	
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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION	



PI STA. 727+38.59
 $\Delta = 11^{\circ} 39' 04.3''$ (LT)
 $D = 0' 39' 58.4''$
 $L = 1748.82'$
 $T = 877.44'$
 $R = 8600.00'$
 $SE = 0.03$

-SR3-
 PI STA. 43+01.14
 $\Delta = 81^{\circ} 52' 36.4''$ (RT)
 $D = 11' 48' 48.8''$
 $L = 693.07'$
 $T = 420.69'$
 $R = 485.00'$
 $SE = 0.06$
 $RO = \text{SEE PLANS}$

LEGEND

-  PROPOSED PAVEMENT REMOVAL
-  PROPOSED PAVED SHOULDER
-  PROPOSED APPROACH SLAB

FOR DITCH DETAILS SEE SHEETS D-1 THRU D-3

FOR -L- PROFILE SEE SHEETS 67 & 68

FOR -SR3- PROFILE SEE SHEETS 98 & 99


5/14/99
 4/28/2022
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 15987B.dgn

5/14/99
 4/28/2022
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-L-
 PI STA. 727+38.59 PIs Sta 736+59.98
 $\Delta = 1' 39' 04.3" (LT)$ $\Theta_s = 0' 29' 58.8"$
 $D = 0' 39' 58.4"$ $L_s = 150.00'$
 $L = 1,748.82'$ $LT = 100.00'$
 $T = 877.44'$ $ST = 50.00'$
 $R = 8,600.00'$
 $SE = 0.03$

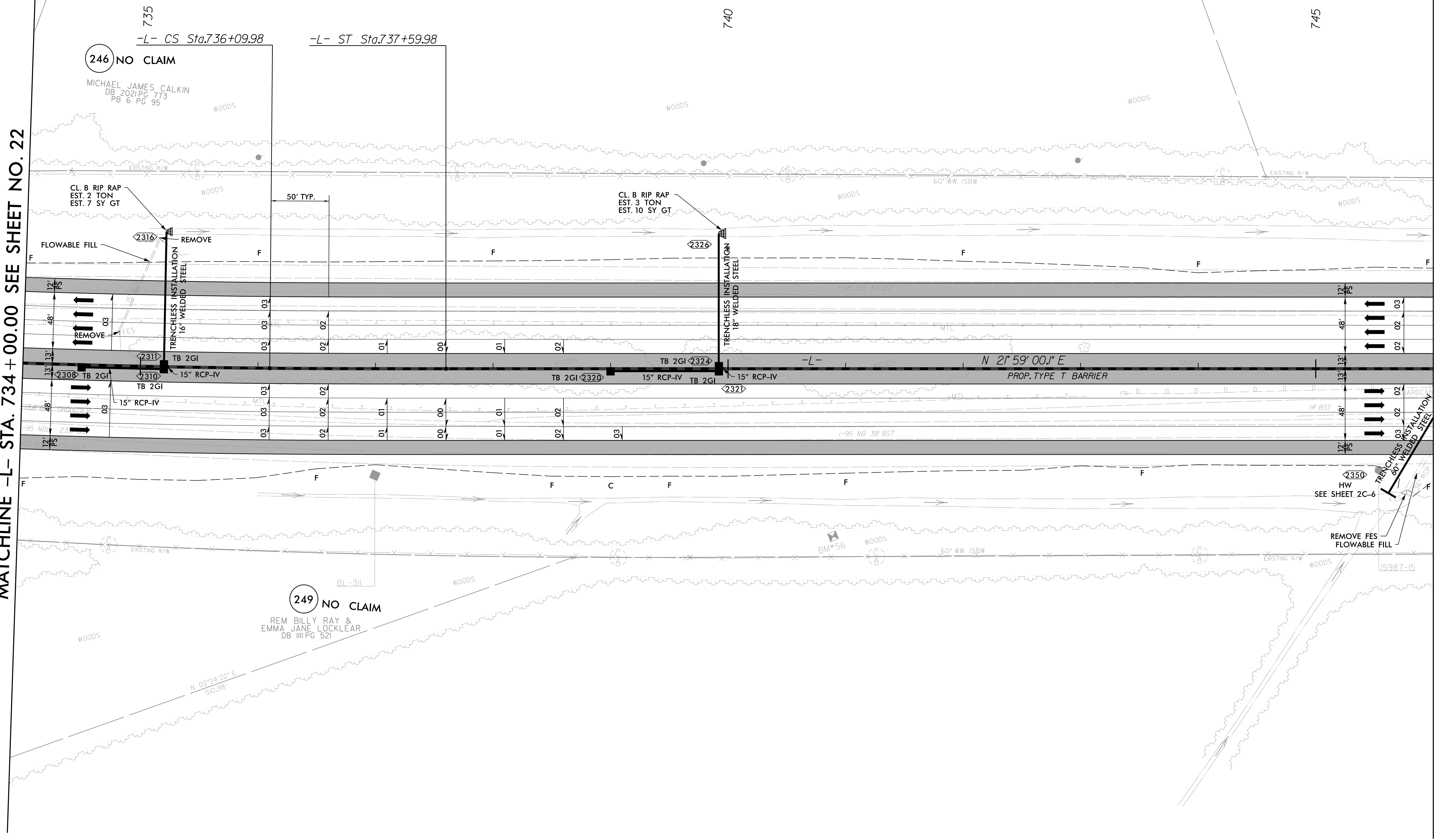
246
 MICHAEL JAMES CALKIN
 DB 2021 PG 773
 PB 6 PG 95
 NO CLAIM

NAD 83/2011
 FAYE E. MCRAINEY REAVES
 DB 519 PG 355
 PB 26 PG 23
 252

PROJECT REFERENCE NO. 1-5987B	SHEET NO. 23
RW SHEET NO.	
ROADWAY DESIGN ENGINEER MICHAEL JAMES CALKIN SEAL 21116 #08 A MA	HYDRAULICS ENGINEER FAYE E. MCRAINEY REAVES SEAL 31977 #08 A MA
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
 1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107	
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION	

MATCHLINE -L- STA. 734 + 00.00 SEE SHEET NO. 22

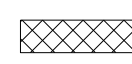
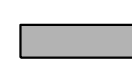

MATCHLINE -L- STA. 746 + 00.00 SEE SHEET NO. 24



249
 REM BILLY RAY &
 EMMA JANE LOCKLEAR
 DB III PG 521
 NO CLAIM

251
 FAYE E. MCRAINEY REAVES
 DB 519 PG 355
 PB 26 PG 23

LEGEND

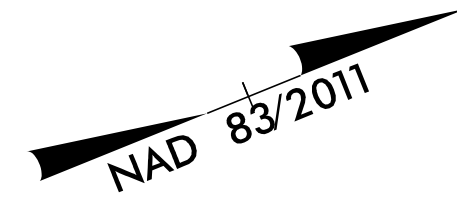
-  PROPOSED PAVEMENT REMOVAL
-  PROPOSED PAVED SHOULDER
-  PROPOSED APPROACH SLAB

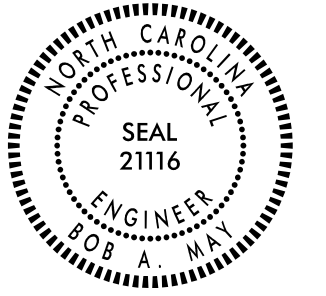
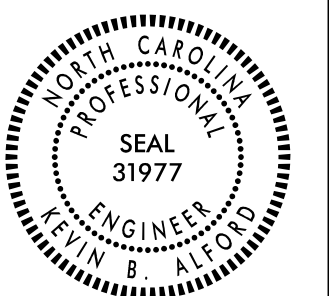

FOR DITCH DETAILS SEE SHEETS D-1 THRU D-3
 FOR -L- PROFILE SEE SHEETS 68 & 69

5/14/99
 4/28/2022
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FAYE E. MCRAINEY REAVES
 DB 519 PG 355
 PB 26 PG 23

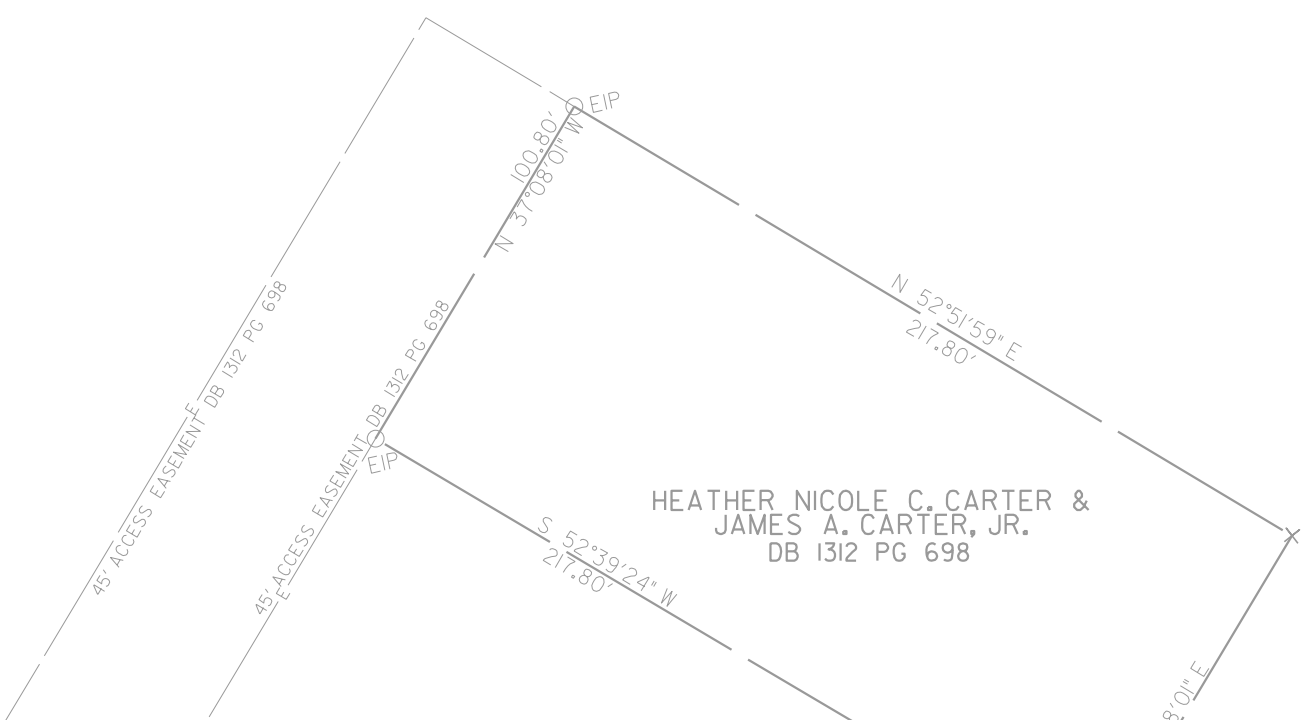
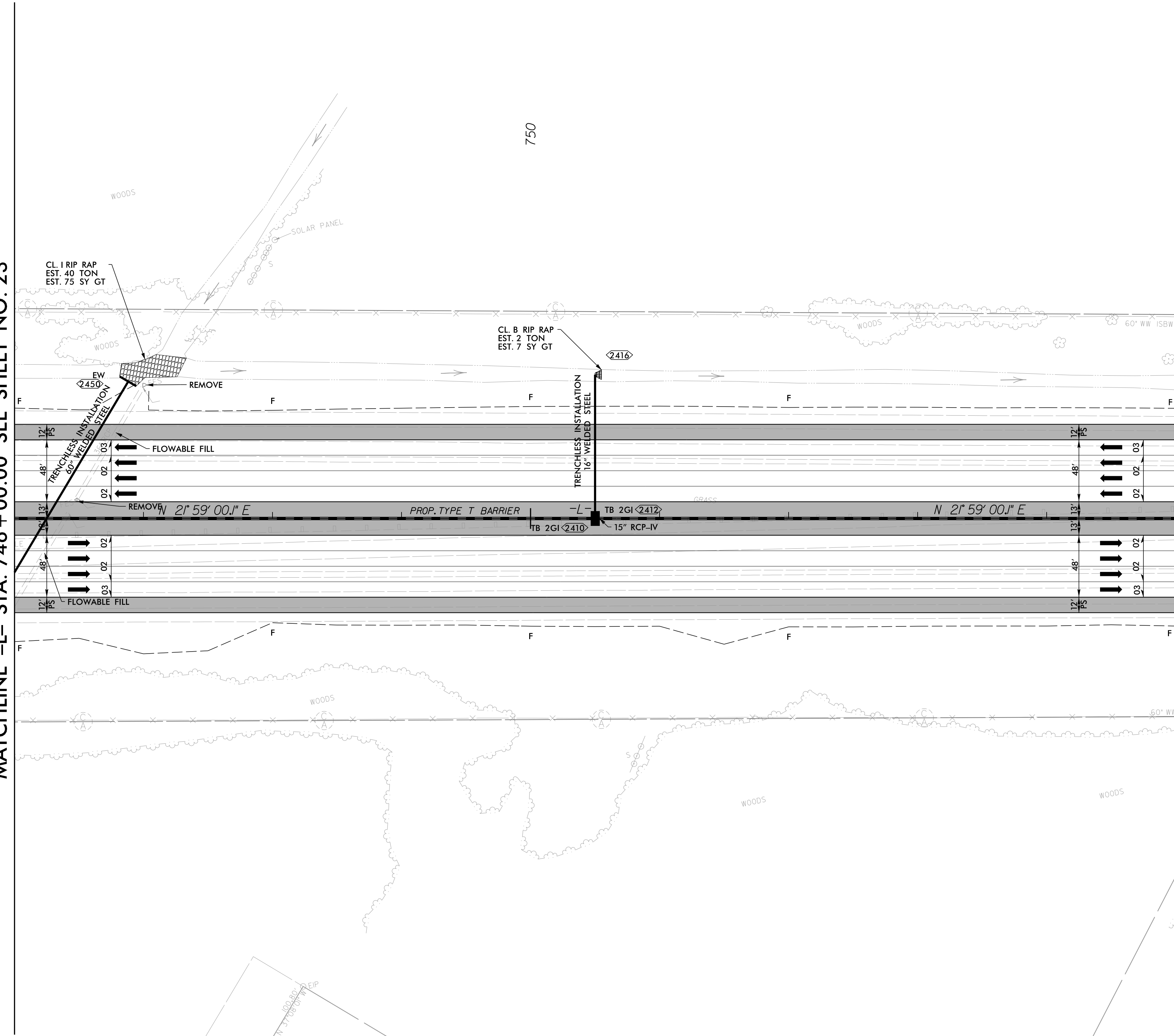
252



PROJECT REFERENCE NO. 1-5987B	SHEET NO. 24
RW SHEET NO.	
ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER 
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
	
1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107	
<small>TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION</small>	

MATCHLINE -L- STA. 746 + 00.00 SEE SHEET NO. 23

MATCHLINE -L- STA. 755 + 00.00 SEE SHEET NO. 25

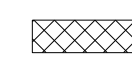

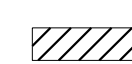


HEATHER NICOLE C. CARTER &
 JAMES A. CARTER, JR.
 DB 1312 PG 698

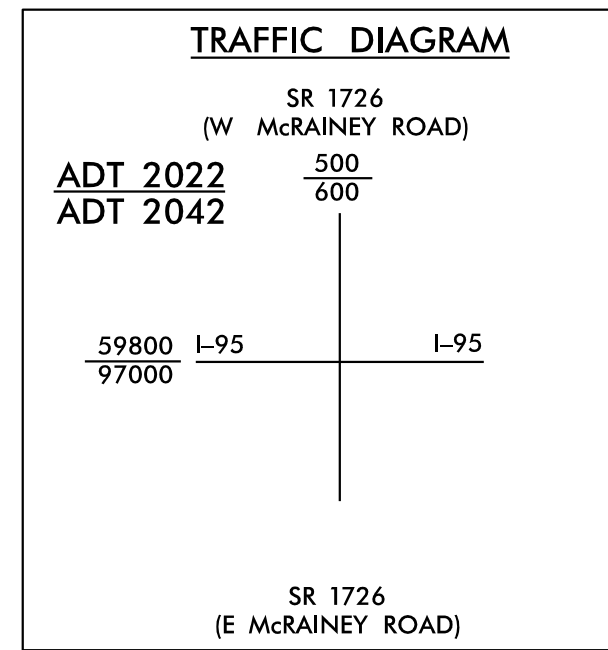
FAYE E. MCRAINEY REAVES
 DB 519 PG 355
 PB 26 PG 23

BEVERLY C. BLACKMON
 DB 1086 PG 39

LEGEND

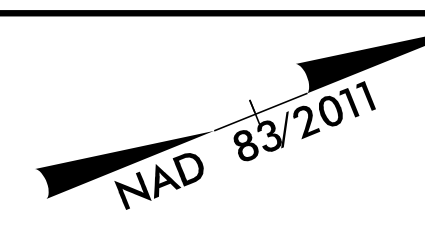
-  PROPOSED PAVEMENT REMOVAL
-  PROPOSED PAVED SHOULDER
-  PROPOSED APPROACH SLAB

FOR DITCH DETAILS SEE SHEETS D-1 THRU D-3
 FOR -L- PROFILE SEE SHEET 69



-Y6-

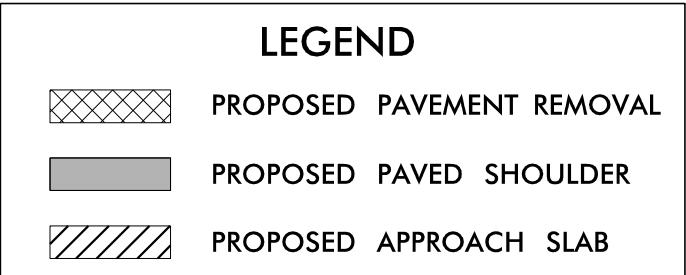
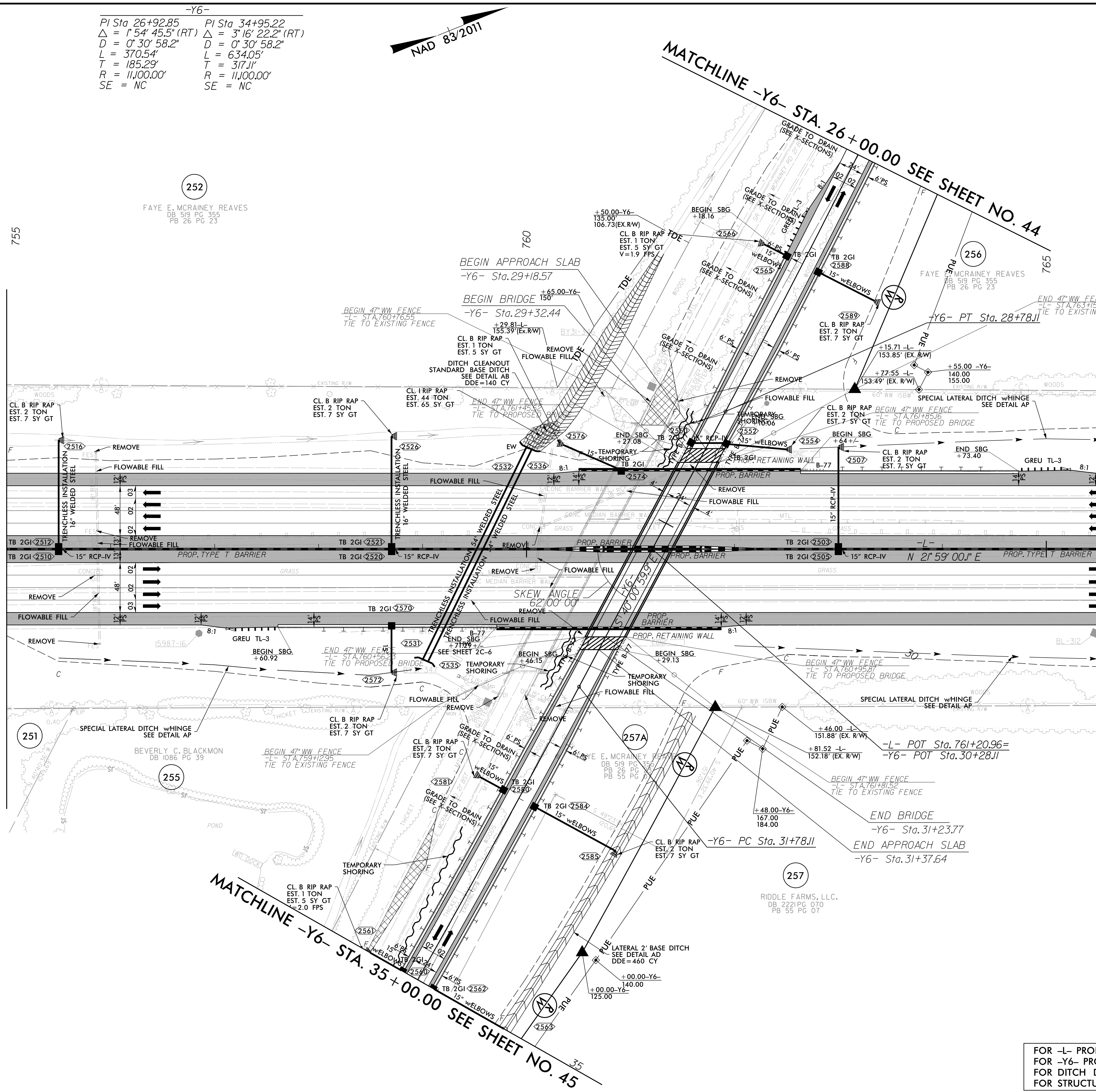
PI Sta 26+92.85	PI Sta 34+95.22
$\Delta = 1^{\circ}54'45.5''$ (RT)	$\Delta = 3^{\circ}16'22.2''$ (RT)
$D = 0^{\circ}30'58.2''$	$D = 0^{\circ}30'58.2''$
$L = 370.54'$	$L = 634.05'$
$T = 185.29'$	$T = 317.11'$
$R = 11,000.00'$	$R = 11,000.00'$
SE = NC	SE = NC



PROJECT REFERENCE NO. 1-5987B	SHEET NO. 25
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
MOTT MACDONALD I & E, LLC LICENSE NO. F-0669	WETHERILL ENGINEERING, LLC. LICENSE NO. F-0377
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
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MATCHLINE -L- STA. 755 + 00.00 SEE SHEET NO. 24


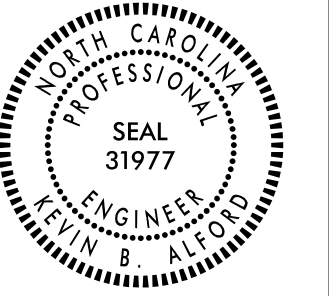


MATCHLINE -L- STA. 766 + 00.00 SEE SHEET NO. 26

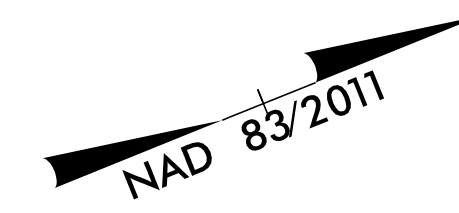


FOR -L- PROFILE, SEE SHEET 70
 FOR -Y6- PROFILE, SEE SHEET 95
 FOR DITCH DETAILS, SEE SHEETS 2D-1 THRU 2D-3
 FOR STRUCTURE PLANS, SEE SHEETS S8-1 THRU S8-28

5/14/2022
 R:\Projects\15987B\15987B_rdy_psh_25.dgn
 4/21/2022
 W:\Projects\15987B\15987B.dgn

5/14/99

PROJECT REFERENCE NO. <i>1-5987B</i>		SHEET NO. <i>26</i>	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
			
MOTT MACDONALD I & E, LLC LICENSE NO. F-0669		WETHERILL ENGINEERING, LLC LICENSE NO. F-0377	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
Prepared in the Office of:			
			



256

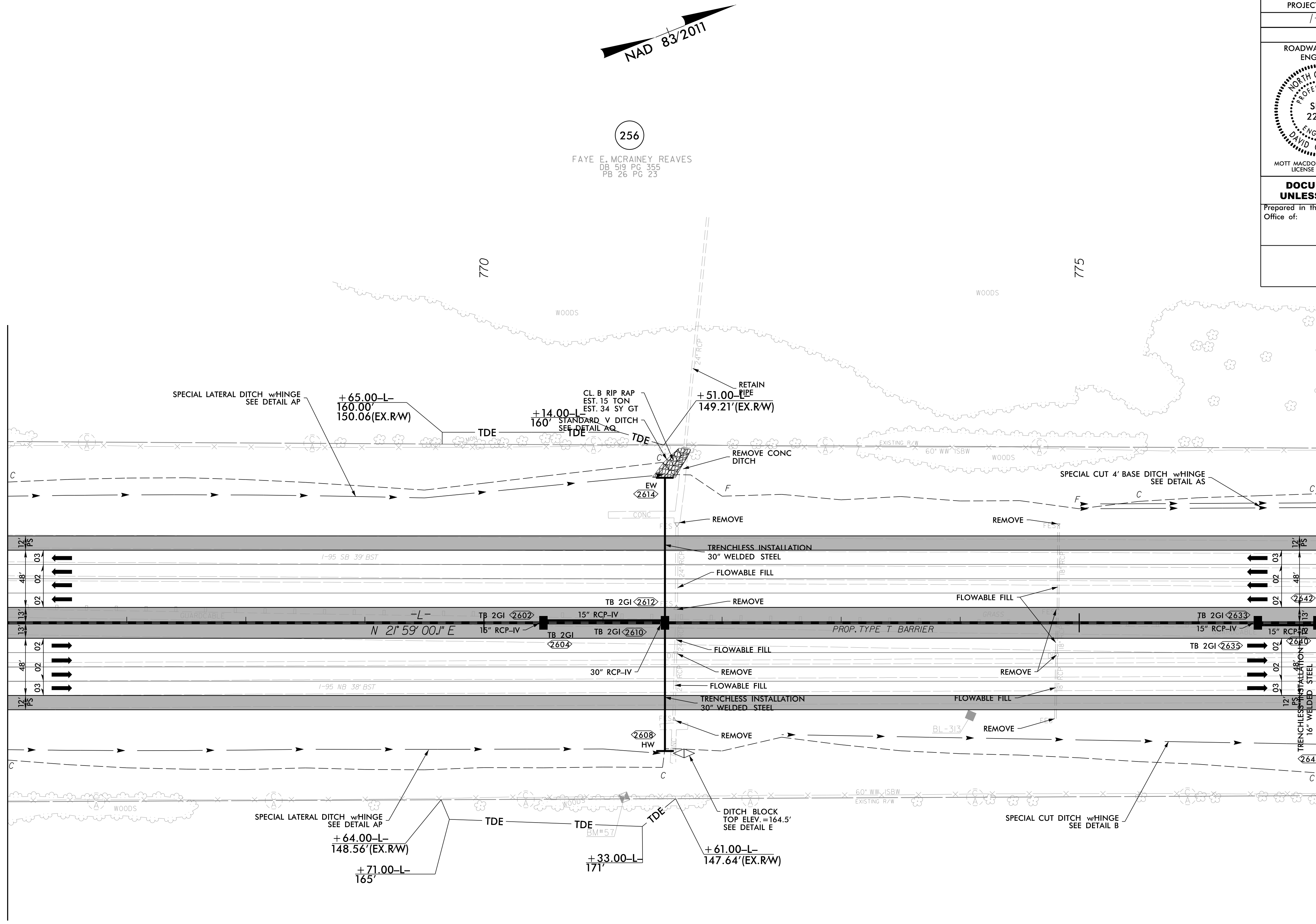
FAYE E. MCRAINEY REAVES
DB 519 PG 355
PB 26 PG 23

257

RIDDLE FARMS, LLC.
DB 2221 PG 070
PB 55 PG 07

MATCHLINE -L- STA. 766 + 00.00 SEE SHEET NO. 25

MATCHLINE -L- STA. 777 + 00.00 SEE SHEET NO. 27



LEGEND

 PROPOSED PAVED SHOULDER

FOR -L- PROFILE, SEE SHEET 71
FOR DITCH DETAILS, SEE SHEETS 2D-1 THRU 2D-3

R:\P\04\15987b_rdy_psh_26.dgn
4/21/2022
10:58:14

5/14/99

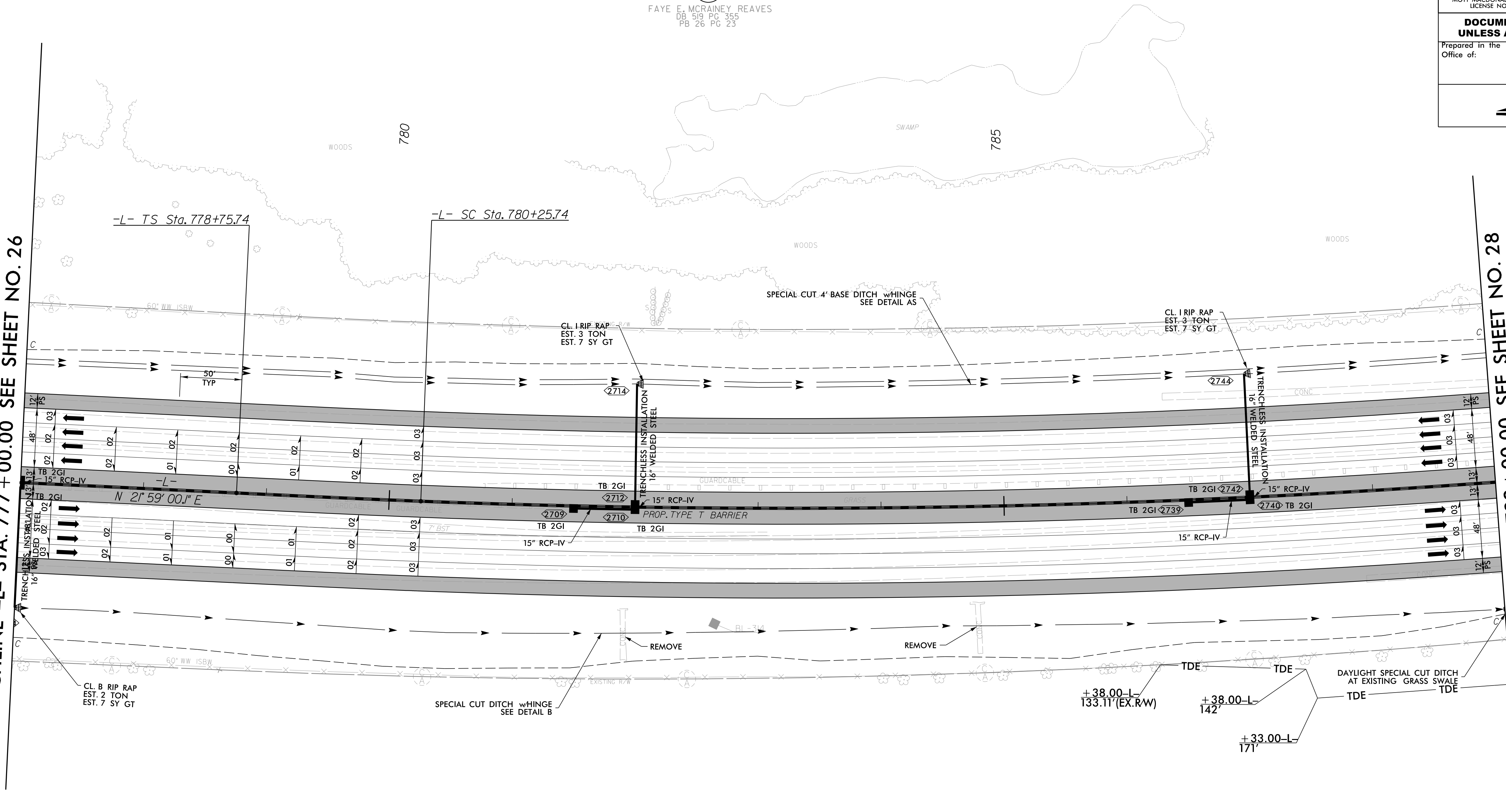
R:\Projects\15987b_rdy_psh_27.dgn
4/21/2022
WAL



PROJECT REFERENCE NO. <i>1-5987B</i>		SHEET NO. <i>27</i>	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
MOTT MACDONALD I & E, LLC LICENSE NO. F-0669		WETHERILL ENGINEERING, LLC. LICENSE NO. F-0377	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
Prepared in the Office of:			

MATCHLINE -L- STA. 777 + 00.00 SEE SHEET NO. 26

MATCHLINE -L- STA. 789 + 00.00 SEE SHEET NO. 28



-L-

PIs Sta 779+75.74	PI Sta 788+81.45
$\Theta_s = 0^\circ 33' 08.4''$	$\Delta = 12^\circ 33' 12.3''$ (LT)
$L_s = 150.00'$	$D = 0' 44' 11.2''$
$LT = 100.00'$	$L = 1,704.58'$
$ST = 50.00'$	$T = 855.72'$
	$R = 7,780.00'$
	$SE = 03$
	$RO = 150.00'$

(256)
FAYE E. MCRAINEY REAVES
DB 519 PG 355
PB 26 PG 23

(257)
RIDDLE FARMS, LLC.
DB 222 PG 010
PB 55 PG 07

LEGEND

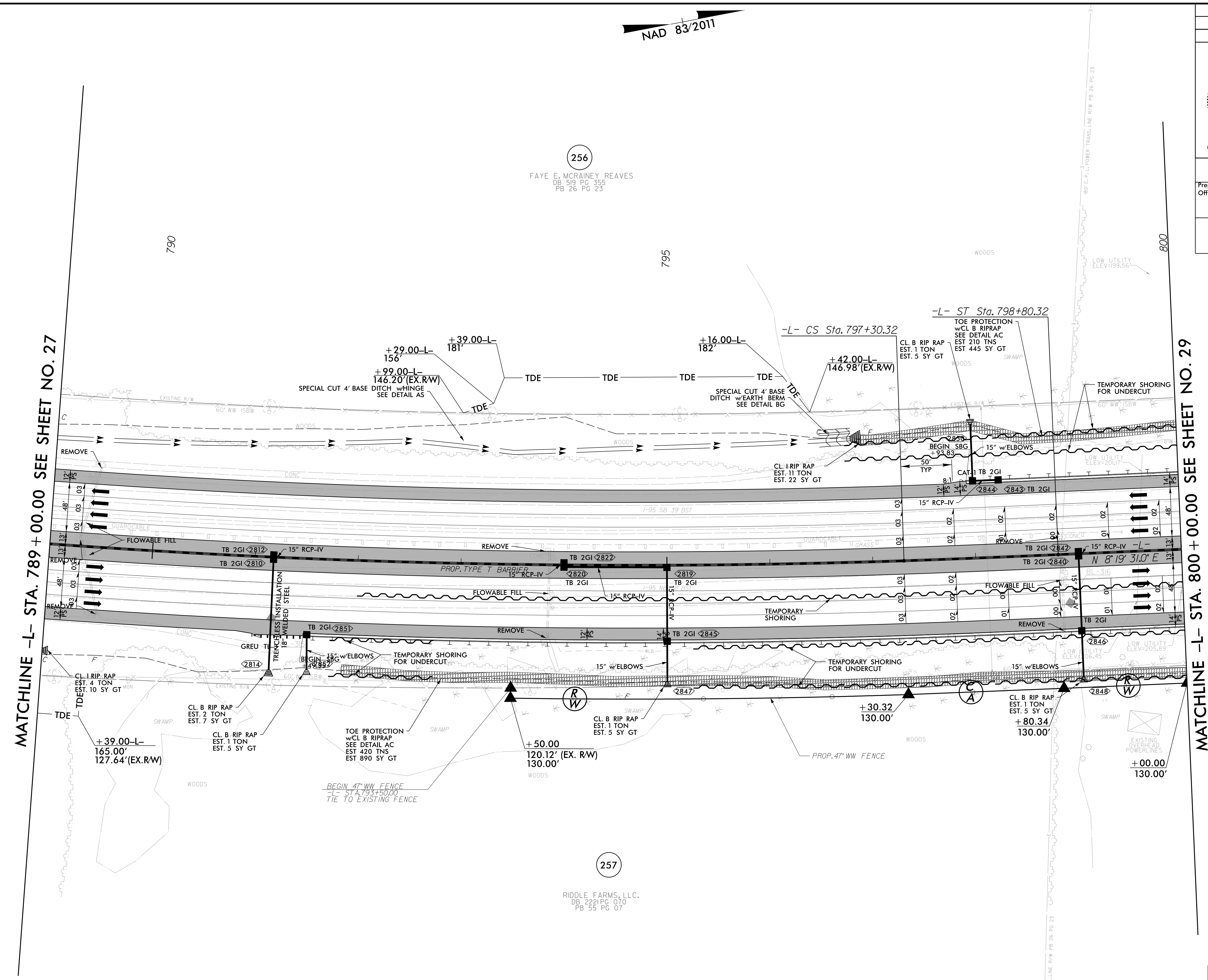
PROPOSED PAVED SHOULDER

FOR -L- PROFILE, SEE SHEET 72
FOR DITCH DETAILS, SEE SHEETS 2D-1 THRU 2D-3

5/14/99

NAD 83/2011

PROJECT REFERENCE NO. <i>1-5987B</i>		SHEET NO. <i>28</i>	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER DAVID C. WALKER SEAL 22606 NORTH CAROLINA PROFESSIONAL ENGINEER		HYDRAULICS ENGINEER KEVIN B. FORD SEAL 31977 NORTH CAROLINA PROFESSIONAL ENGINEER	
MOTT MACDONALD I & E, LLC LICENSE NO. F-0669		WETHERILL ENGINEERING, LLC LICENSE NO. F-0377	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
Prepared in the Office of:		M MOTT MACDONALD	
		PO Box 700 Fuquay-Varina, NC 27526 www.mothmac.com/americas	
		1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107	



MATCHLINE -L- STA. 789 + 00.00 SEE SHEET NO. 27

MATCHLINE -L- STA. 800 + 00.00 SEE SHEET NO. 29

-L-

PI Sta 788+81.45	PIs Sta 797+80.32
$\Delta = 12^{\circ} 33' 12.3" (LT)$	$\Theta_s = 0^{\circ} 33' 08.4"$
$D = 0^{\circ} 44' 11.2"$	$L_s = 150.00'$
$L = 1704.58'$	$LT = 100.00'$
$T = 855.72'$	$ST = 50.00'$
$R = 7,780.00'$	
$SE = 03$	
$RO = 150.00'$	

LEGEND

█ PROPOSED PAVED SHOULDER

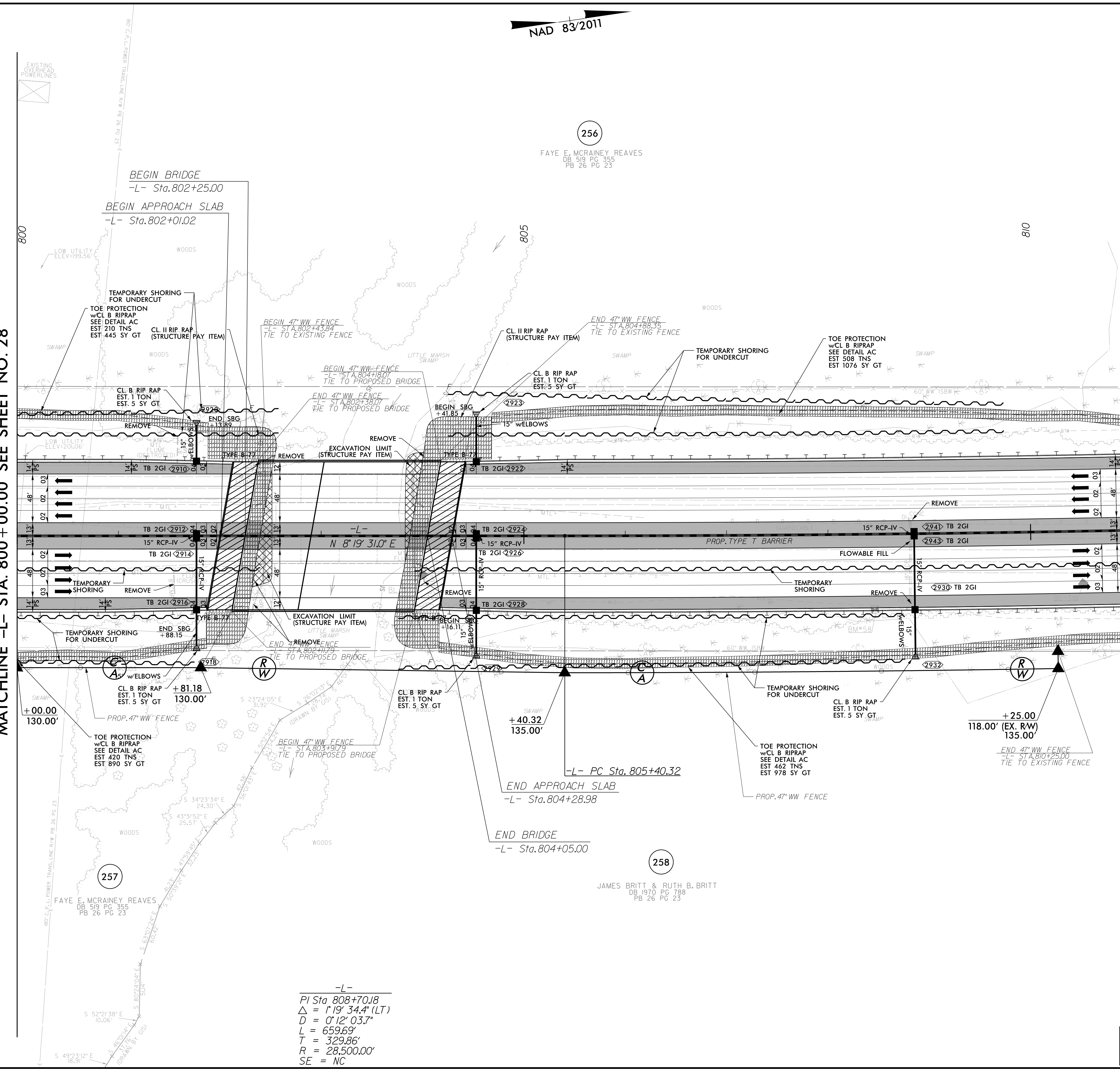
FOR -L- PROFILE, SEE SHEET 73
FOR DITCH DETAILS, SEE SHEETS 2D-1 THRU 2D-3

4/21/2022
R:\P\09\15987b_rdy_psh_28.dgn
WAL

5/14/99
4/21/2022
R:\P\09\15987b_rdy_psh_29.dgn

MATCHLINE -L- STA. 800 + 00.00 SEE SHEET NO. 28

MATCHLINE -L- STA. 811 + 00.00 SEE SHEET NO. 30



NAD 83/2011

256

FAYE E. MCRAINEY REAVES
DB 5/9 PG 355
PB 26 PG 23

258

JAMES BRITT & RUTH B. BRITT
DB 1970 PG 788
PB 26 PG 23

-L-
PI Sta 808+70.18
Δ = 1'19" 34.4" (LT)
D = 0'12" 03.7"
L = 659.69'
T = 329.86'
R = 28,500.00'
SE = NC

PROJECT REFERENCE NO. 1-5987B	SHEET NO. 29
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
MOTT MACDONALD I & E, LLC LICENSE NO. F-0669	WETHERILL ENGINEERING, LLC LICENSE NO. F-0377
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Prepared in the Office of:	M MOTT MACDONALD PO Box 700 Fuquay-Varina, NC 27526 www.mottmac.com/americas
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LEGEND

- PROPOSED PAVED SHOULDER
- PROPOSED APPROACH SLAB

FOR -L- PROFILE, SEE SHEET 74
FOR DITCH DETAILS, SEE SHEETS 2D-1 THRU 2D-3
FOR STRUCTURE PLANS, SEE SHEETS S9-1 THRU S9-69

5/14/99

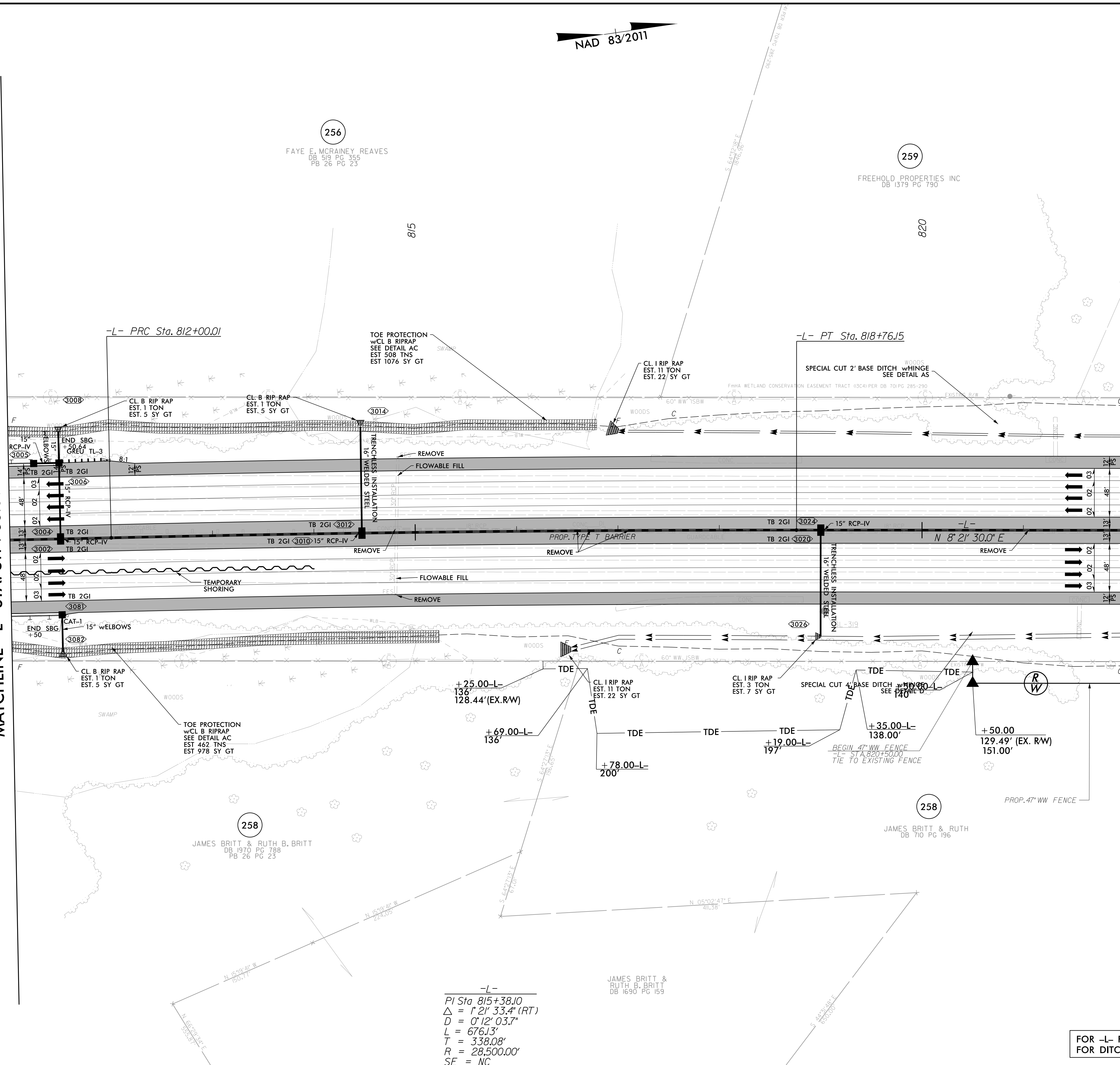
R:\P\05\15987b_rdy_psh_30.dgn
4/21/2022
WAL

NAD 83/2011

PROJECT REFERENCE NO. <i>1-5987B</i>		SHEET NO. <i>30</i>	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER		
MOTT MACDONALD I & E, LLC LICENSE NO. F-0669		WETHERILL ENGINEERING, LLC LICENSE NO. F-0377	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
Prepared in the Office of:		M MOTT MACDONALD PO Box 700 Fuquay-Varina, NC 27526 www.mottmac.com/americas	
		1223 Jones Franklin Rd. Raleigh, N.C. 27605 License No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107	

MATCHLINE -L- STA. 811 + 00.00 SEE SHEET NO. 29

MATCHLINE -L- STA. 822 + 00.00 SEE SHEET NO. 31



-L-
 PI Sta 815+38.10
 $\Delta = 1^{\circ}21'33.4''$ (RT)
 $D = 0^{\circ}12'03.7''$
 $L = 676.13'$
 $T = 338.08'$
 $R = 28,500.00'$
 $SE = NC$

LEGEND

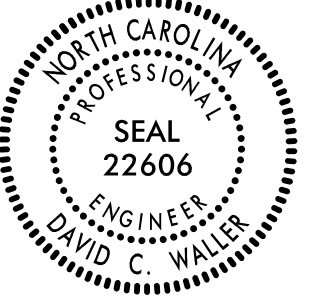
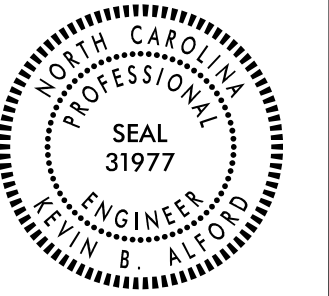


PROPOSED PAVED SHOULDER

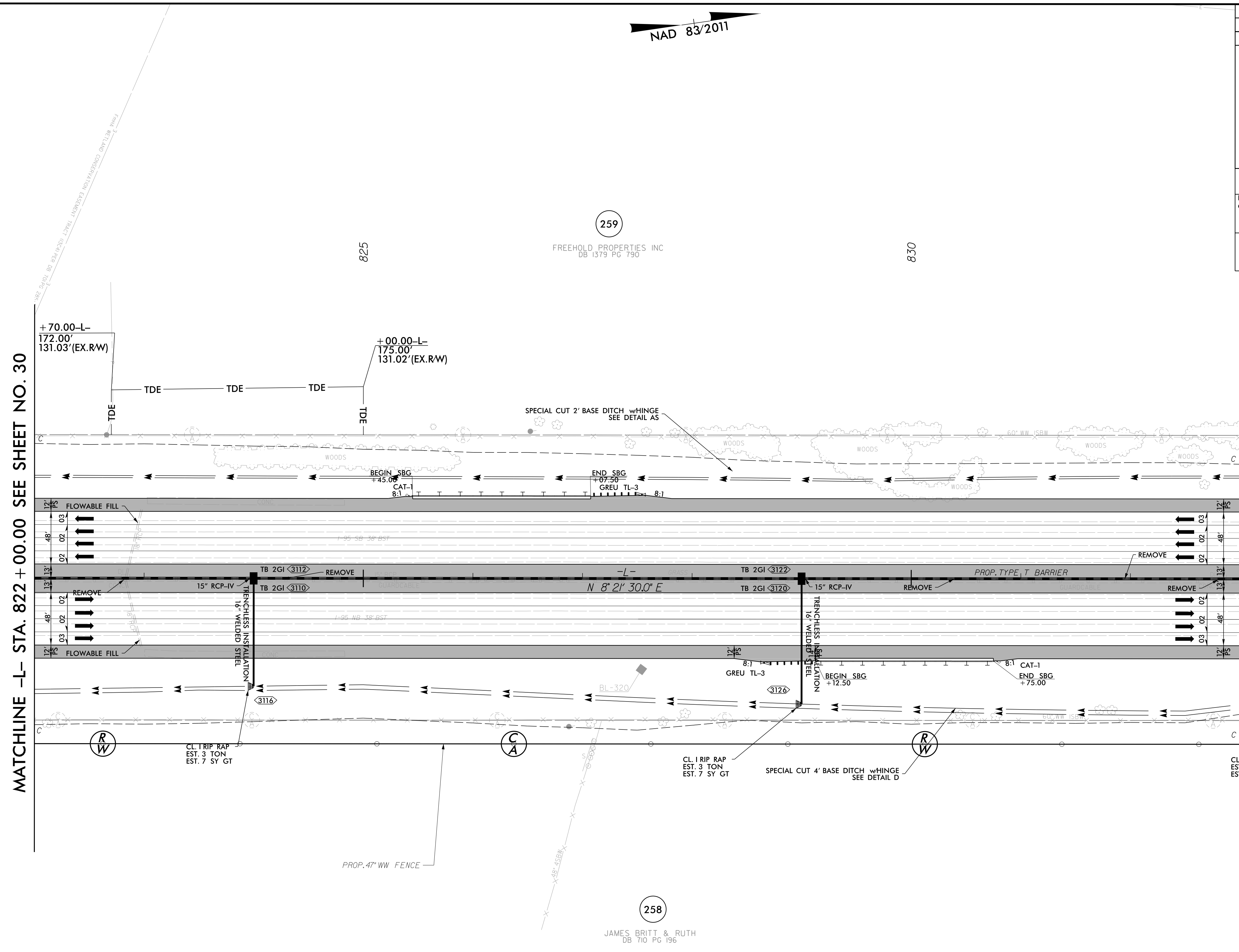
FOR -L- PROFILE, SEE SHEET 75
 FOR DITCH DETAILS, SEE SHEETS 2D-1 THRU 2D-3

5/14/2022

R:\P\04\5987b\rdy_psh_31.dgn

NAD 83/2011

PROJECT REFERENCE NO. 1-5987B		SHEET NO. 31	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
			
MOTT MACDONALD I & E, LLC LICENSE NO. F-0669		WETHERILL ENGINEERING, LLC LICENSE NO. F-0377	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
Prepared in the Office of:			
			



LEGEND

 PROPOSED PAVED SHOULDER

FOR -L- PROFILE, SEE SHEET 76
 FOR DITCH DETAILS, SEE SHEETS 2D-1 THRU 2D-3

5/14/99
4/21/2022
R:\Projects\15987b_rdy_esh_32.dgn
WAL

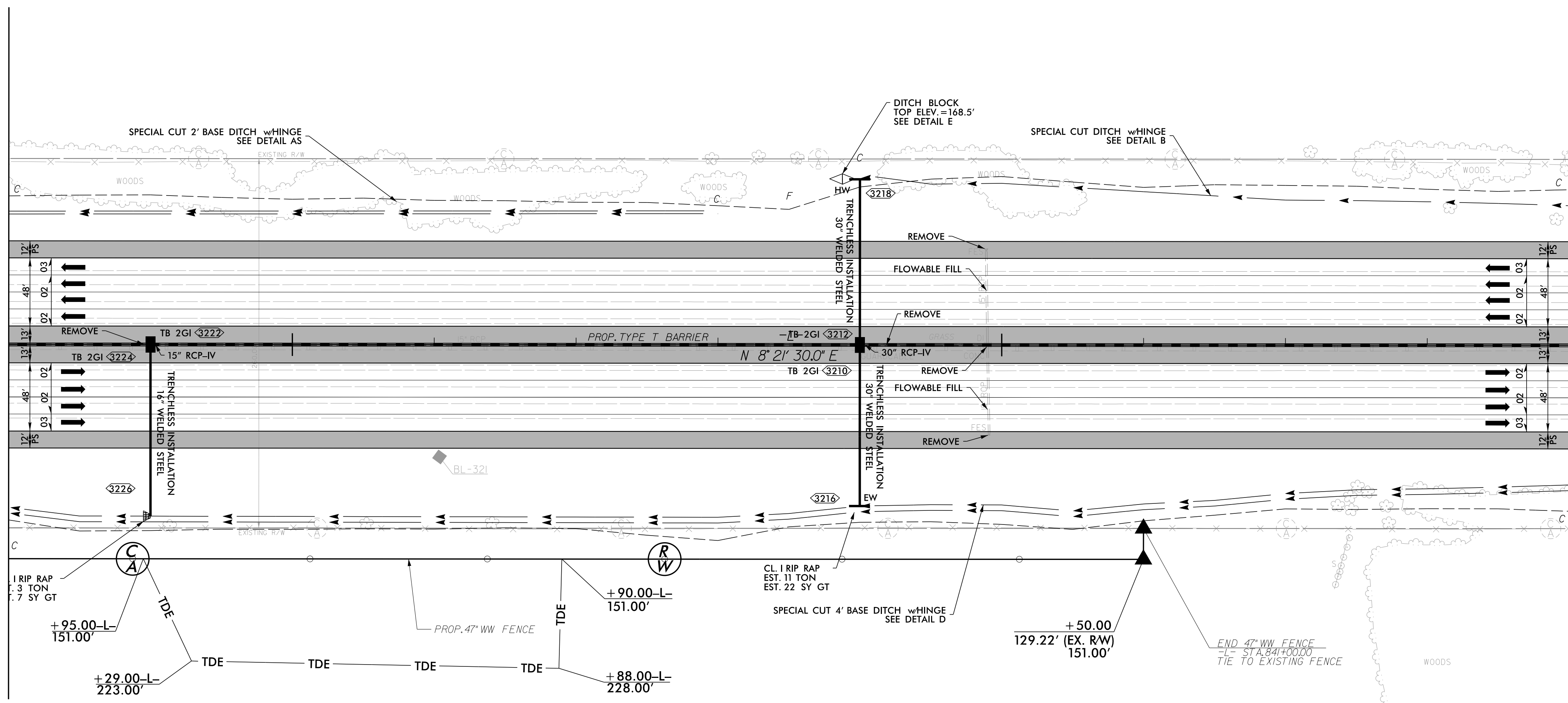
LAND CONSERVATION EASEMENT TRACT #3C31 PER DB 701PG 285-290

NAD 83/2011

PROJECT REFERENCE NO. 1-5987B	SHEET NO. 32
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
MOTT MACDONALD I & E, LLC LICENSE NO. F-0669	WETHERILL ENGINEERING, LLC LICENSE NO. F-0377
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Prepared in the Office of:	MOTT MACDONALD PO Box 700 Fuquay-Varina, NC 27526 www.mottmac.com/americas
WETHERILL ENGINEERING 1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107	

MATCHLINE -L- STA. 833 + 00.00 SEE SHEET NO. 31

MATCHLINE -L- STA. 844 + 00.00 SEE SHEET NO. 33



259

FREEHOLD PROPERTIES INC
DB 1379 PG 790

835

840

258

JAMES BRITT & RUTH
DB 710 PG 196

LEGEND

- PROPOSED PAVED SHOULDER

FOR -L- PROFILE, SEE SHEET 77
FOR DITCH DETAILS, SEE SHEETS 2D-1 THRU 2D-3

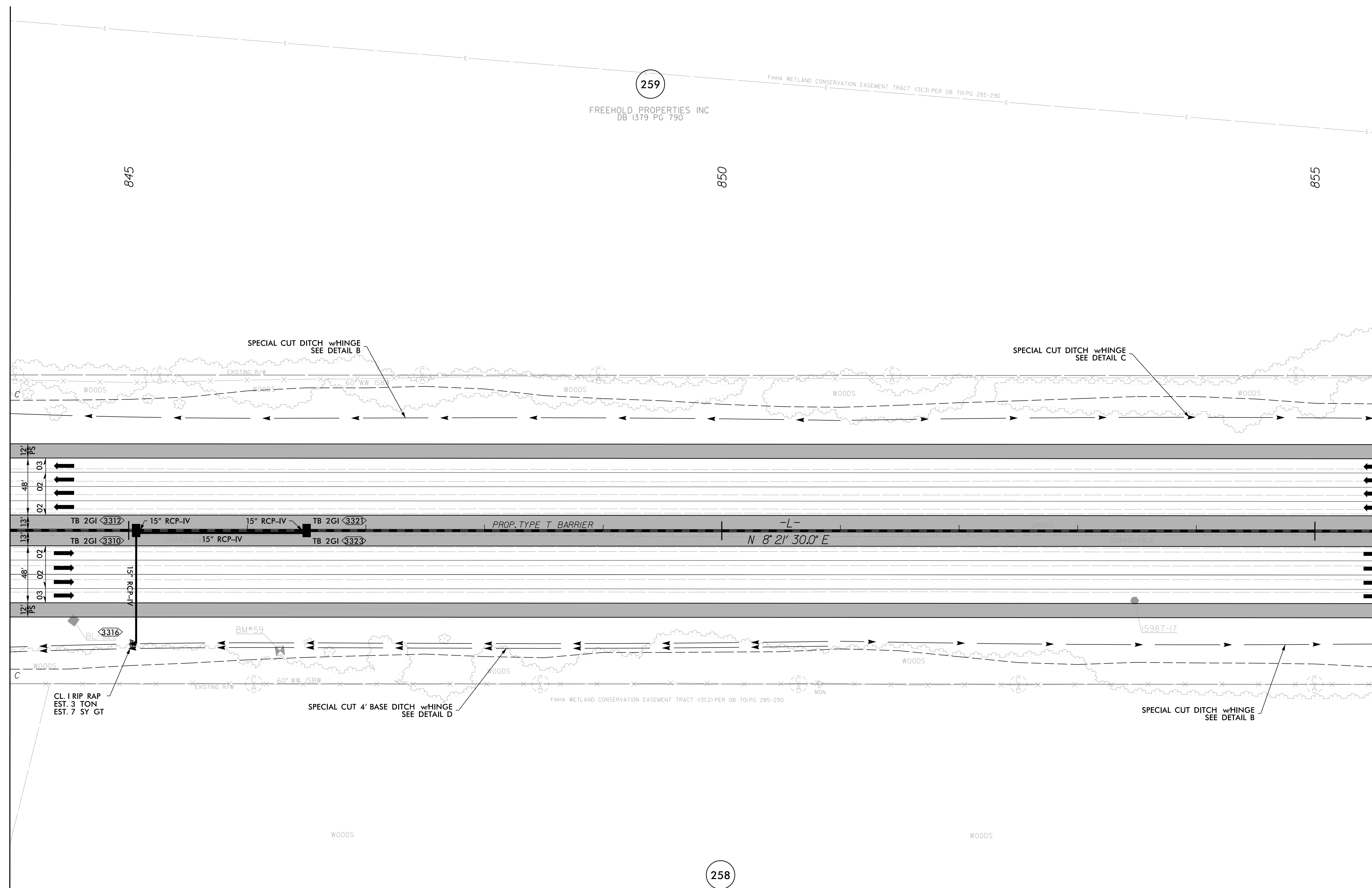
5/14/99

NAD 83/2011

PROJECT REFERENCE NO. 1-5987B	SHEET NO. 33
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
MOTT MACDONALD I & E, LLC LICENSE NO. F-0669	WETHERILL ENGINEERING, LLC. LICENSE NO. F-0377
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Prepared in the Office of:	M MOTT MACDONALD PO Box 700 Fuquay-Varina, NC 27526 www.mottmac.com/america
1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107	

MATCHLINE -L- STA. 844 + 00.00 SEE SHEET NO. 32

MATCHLINE -L- STA. 856 + 00.00 SEE SHEET NO. 34



259
FREEHOLD PROPERTIES INC
DB 1379 PG 790

258
JAMES BRITT & RUTH
DB 710 PG 196

LEGEND

PROPOSED PAVED SHOULDER

FOR -L- PROFILE, SEE SHEET 78
FOR DITCH DETAILS, SEE SHEETS 2D-1 THRU 2D-3

4/21/2022
R:\P\04\15987b_rdw_esh_33.dgn
WAL