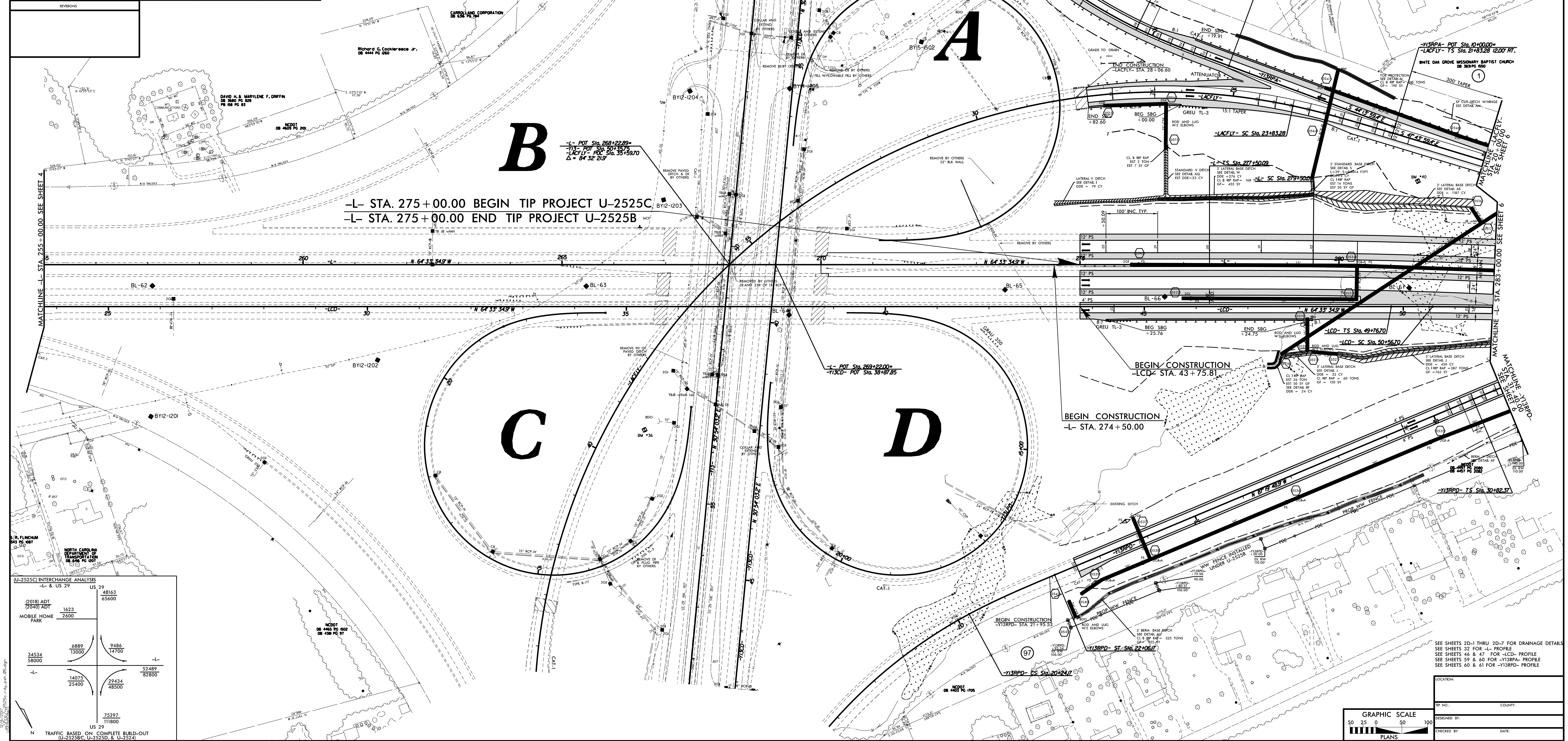


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shall not be considered a certified document.**

<p>-L-</p> <p>PI Sta 218+83.43 Δ = 0° 34' 22.6" LS = 200.07 LT = 133.13 ST = 66.67</p>	<p>-LCD-</p> <p>PI Sta 288+116.1 Δ = 0° 34' 22.6" LS = 200.07 LT = 133.13 ST = 66.67</p>	<p>-LCD-</p> <p>PI Sta 50+300.3 Δ = 0° 15' 42.5" LS = 80.07 LT = 53.33 ST = 26.67</p>	<p>-LCD-</p> <p>PI Sta 58+58.43 Δ = 0° 15' 42.5" LS = 80.07 LT = 53.33 ST = 26.67</p>	<p>-LACFLY-</p> <p>PI Sta 23+16.66 Δ = 0° 15' 42.5" LS = 80.07 LT = 53.33 ST = 26.67</p>	<p>-LACFLY-</p> <p>PI Sta 46+72.42 Δ = 0° 15' 42.5" LS = 80.07 LT = 53.33 ST = 26.67</p>
<p>-YHRPA-</p> <p>PI Sta 14+69.51 Δ = 5° 36' 45.5" LS = 182.00 LT = 128.06 ST = 64.06</p>	<p>-YHRPA-</p> <p>PI Sta 21+44.83 Δ = 6° 34' 31.8" (RT) LS = 108.31 LT = 61.25 ST = 30.63</p>	<p>-YHRPD-</p> <p>PI Sta 20+94.89 Δ = 5° 29' 18.0" LS = 120.33 LT = 120.33 ST = 60.17</p>	<p>-YHRPD-</p> <p>PI Sta 31+94.39 Δ = 4° 00' 38.5" LS = 160.00 LT = 133.39 ST = 66.77</p>		



U-2525C INTERCHANGE ANALYSIS

-L- & US 29	US 29	28163	65400
(2018) ADT	(2040) ADT	1623	2600
MOBILE HOME PARK		6889	9486
		13000	14700
34534	58000		
-L-		14073	29434
		25400	48500
		75297	111800
		52489	87800
		75297	111800
		52489	87800

TRAFFIC BASED ON COMPLETE BUILD-OUT (U-2525C, U-2525D, & U-2524)

PROJECT REFERENCE NO. **U-2525C**

DATE: **1/8/2018**

DESIGNED BY: **JL/10/AMH**

CHECKED BY: **JL/10/AMH**

DATE: **1/8/2018**

SCALE: **AS SHOWN**

GRAPHIC SCALE: **1" = 100'**

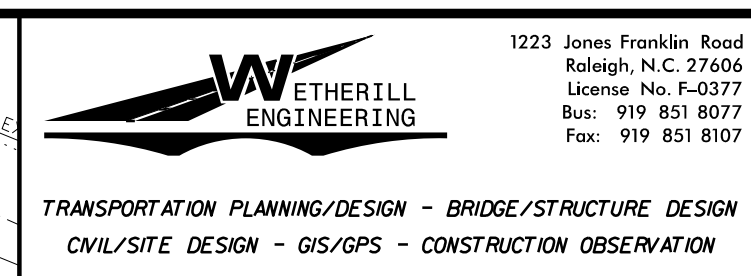
PLANS

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALE

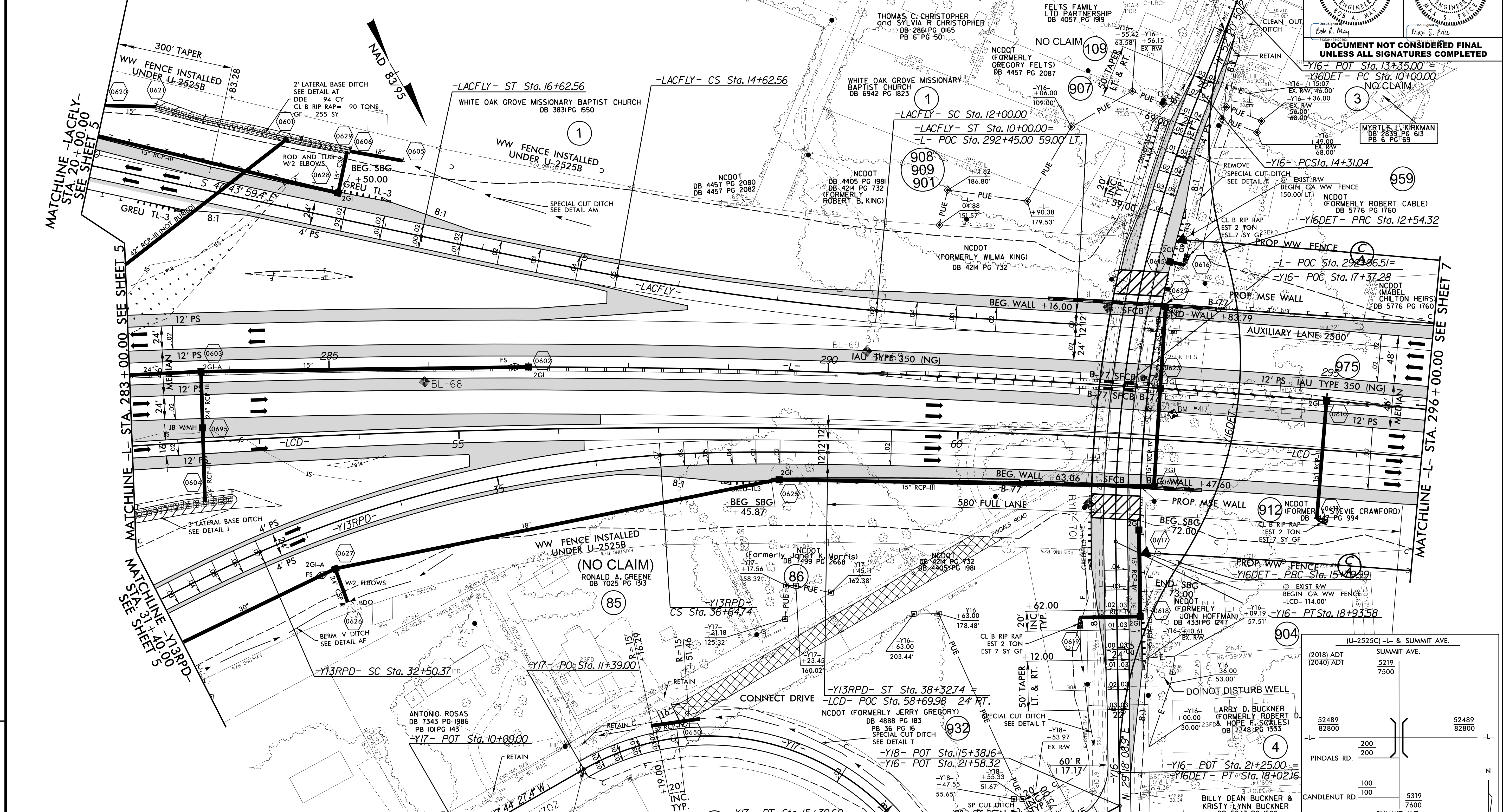
0 25 50 100

PLANS



PROJECT REFERENCE NO. U-2525C	SHEET NO. 6
ROADWAY DESIGN ENGINEER 1/8/2018	HYDRAULICS ENGINEER 1/10/2018
SEAL 21116 E. H. May	SEAL 23993 M. S. Price
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-L- PI Sta 288+11.64 Δ = 9° 50' 53.9" (RT) D = 0° 34' 22.6" L = 1,718.85' T = 861.55' R = 10,000.00' SE = .02	-LCD- PI Sta 58+58.43 Δ = 10° 28' 13.4" (RT) D = 0° 39' 17.3" L = 1,599.00' T = 801.73' R = 8,750.00' SE = NC DS = 50 MPH	-LACFLY- PI Sta 11+33.34 Δ = 1° 54' 35.5" Ls = 200.00' LT = 133.34' ST = 66.67'	-LACFLY- PI Sta 13+31.37 Δ = 5° 00' 52.5" (RT) D = 1° 54' 35.5" L = 262.56' T = 131.37' R = 3,000.00' SE = .05 DS = 60 MPH	-LACFLY- PI Sta 15+29.24 Δ = 1° 54' 35.5" Ls = 200.00' LT = 133.34' ST = 66.67'	-LACFLY- PI Sta 31+94.39 Δ = 4° 00' 38.5" Ls = 168.00' LT = 112.03' ST = 56.03'	-Y13RPD- PI Sta 34+59.64 Δ = 19° 47' 05.8" (RT) D = 4° 46' 28.7" L = 414.38' T = 209.27' R = 1,200.00' SE = .07 DS = 50 MPH	-Y16- PI Sta 37+27.55 Δ = 0° 33' 05.3" Ls = 168.00' LT = 105.27' ST = 62.81'
---	--	---	---	---	---	--	--



-Y16- PI Sta 16+65.48 Δ = 23° 02' 41.3" (LT) D = 4° 58' 56.1" L = 462.54' T = 234.44' R = 1,150.00' SE = .04 RO = SEE PLANS DS = 40 MPH	-Y17- PI Sta 13+97.04 Δ = 9° 48' 47.7" (RT) D = 22° 55' 05.9" L = 400.61' T = 258.04' R = 250.00' SE = .03 DS = 20 MPH
---	---

(U-2525C) -L- & SUMMIT AVE.	
(2018) ADT	SUMMIT AVE.
(2040) ADT	5219
	7500
52489	52489
82800	82800
200	200
200	200
100	5319
100	7600
SUMMIT AVE.	
TRAFFIC BASED ON COMPLETE BUILD-OUT (U-2525B, U-2525D, & U-2524)	

SFCB - "SINGLE FACED CONCRETE BARRIER"
SEE SHEET 2B-1 FOR BRIDGE SKETCH
SEE SHEETS 2D-1 THRU 2D-7 FOR DRAINAGE DETAILS
SEE SHEET 32 FOR -L- PROFILE
SEE SHEETS 60 & 61 FOR -Y13RPD- PROFILE
SEE SHEETS 46 & 47 FOR -LCD- PROFILE
SEE SHEET 62 FOR -Y16- PROFILE
SEE SHEETS 51-1 THRU 51-29 FOR STRUCTURE PLANS
SEE SHEET 63 FOR -Y17- & -Y18- PROFILE
SEE SHEET 6A FOR -Y16- DETOUR

REVISIONS

12/27/2017 U-2525C-rdy_psh_06.dgn

B.17/799

DETAIL OF -Y16DET- (SUMMIT AVE.)

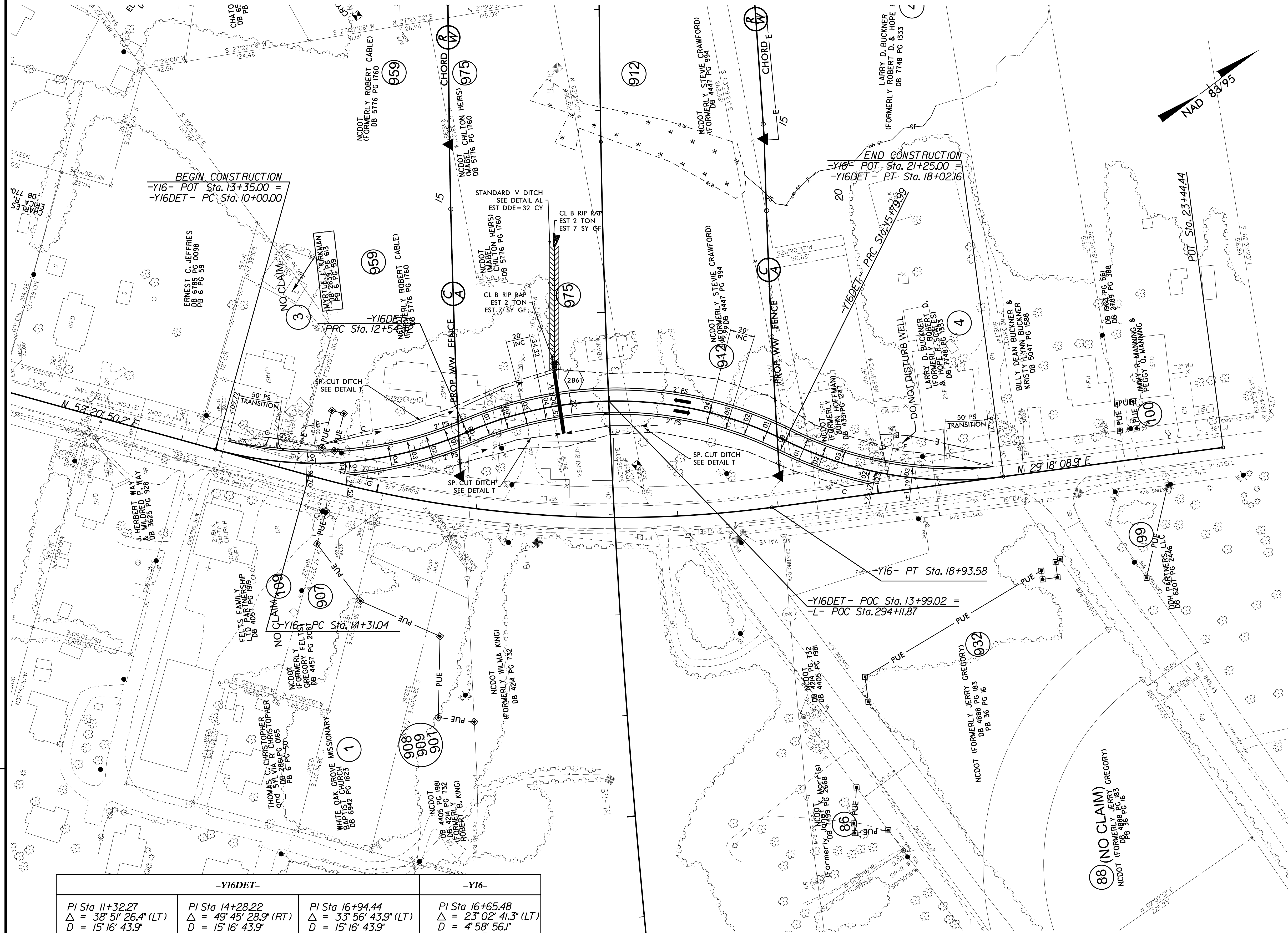
VDES. = 35 MPH

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 Fax: 919 851 8107

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 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. U-2525C	SHEET NO. 6A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER 1/8/2018 North Carolina Professional Engineer SEAL 21116 BOB A. MAY	HYDRAULICS ENGINEER 1/10/2018 North Carolina Professional Engineer SEAL 23993 MAY S. PRICE
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REVISIONS



-Y16DET-		-Y16-	
PI Sta 11+32.27	PI Sta 14+28.22	PI Sta 16+94.44	PI Sta 16+65.48
Δ = 38° 51' 26.4" (LT)	Δ = 49° 45' 28.9" (RT)	Δ = 33° 56' 43.9" (LT)	Δ = 23° 02' 41.3" (LT)
D = 15' 16" 43.9"	D = 15' 16" 43.9"	D = 15' 16" 43.9"	D = 4' 58" 56.1"
L = 254.32'	L = 325.67'	L = 222.17'	L = 462.54'
T = 132.27'	T = 173.90'	T = 114.45'	T = 234.44'
R = 375.00'	R = 375.00'	R = 375.00'	R = 1150.00'
SE = .04	SE = .04	SE = .04	SE = .04

SEE SHEET 6 FOR -L-, Y16DET- FOR PLAN VIEW
 SEE SHEET 69 FOR -Y16DET- PROFILE

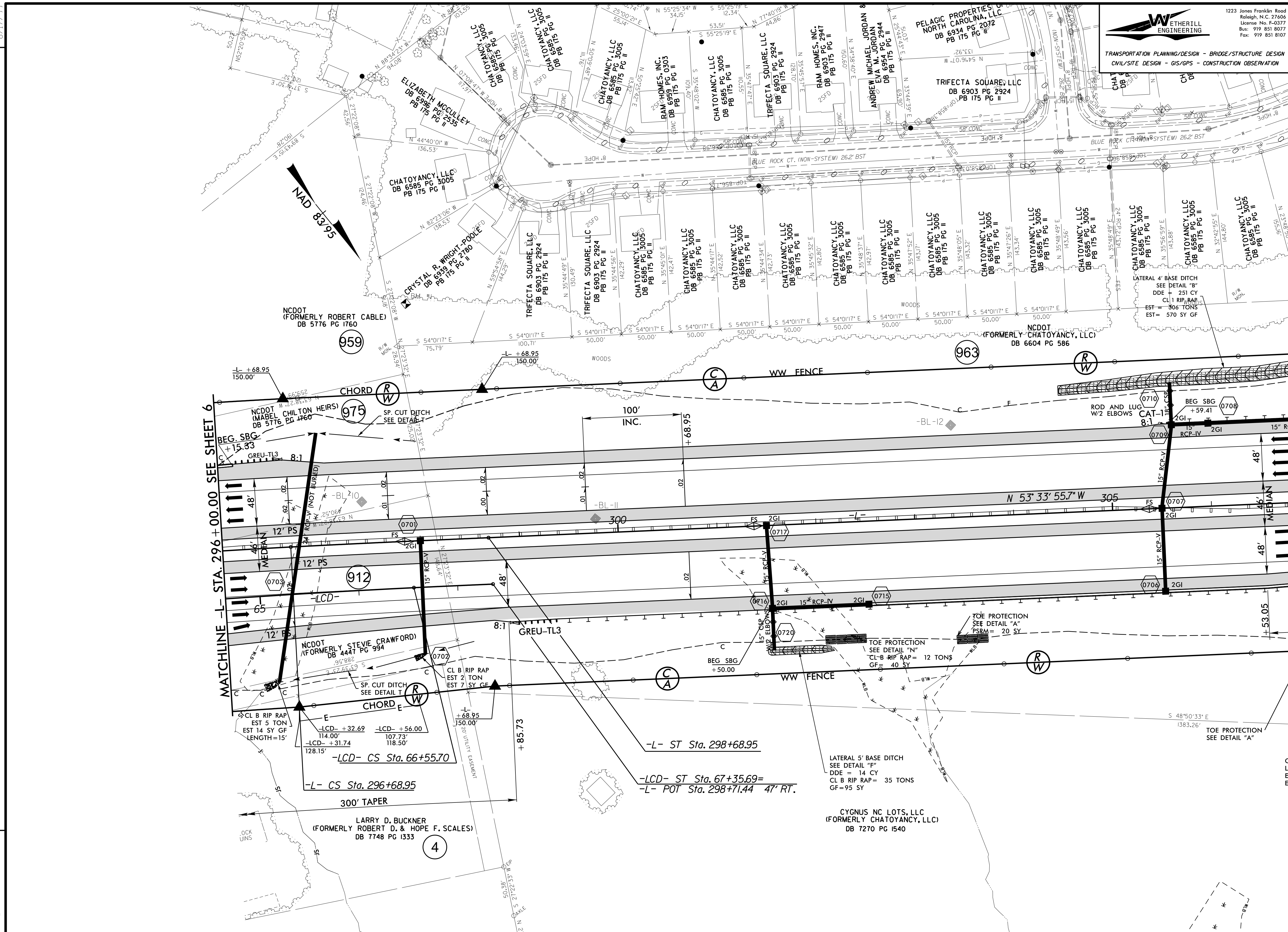
12/16/2017 U:\2525C\rdy_psh_06A.dgn

8.17.2017

PROJECT REFERENCE NO. U-2525C		SHEET NO. 7	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER 1/8/2018		HYDRAULICS ENGINEER 1/10/2018	
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REVISIONS

-L-	-LCD-
PI Sta 288+11.64 $\Delta = 9' 50'' 53.9''$ (RT) $D = 0' 34'' 22.6''$ $L = 1718.85'$ $T = 861.55'$ $R = 10,000.00'$ $SE = .02$	PI Sta 58+58.43 $\Delta = 10' 28'' 13.4''$ (RT) $D = 0' 39'' 17.3''$ $L = 1599.00'$ $T = 801.73'$ $R = 8750.00'$ $SE = NC$ $DS = 50$ MPH
PI Sta 297+35.61 $\Delta = 0' 34'' 22.6''$ $Ls = 200.00'$ $LT = 133.33'$ $ST = 66.67'$	PI Sta 66+82.36 $\Delta = 0' 15'' 42.9''$ $Ls = 80.00'$ $LT = 53.33'$ $ST = 26.67'$

SEE SHEETS 2D-1 THRU 2D-7 FOR DRAINAGE DETAILS
SEE SHEET 33 FOR -L- PROFILE
SEE SHEETS 46 & 47 FOR -LCD- PROFILE

12/6/2017 U-2525C-rdy_psh_07.dgn
11:58:10 AM

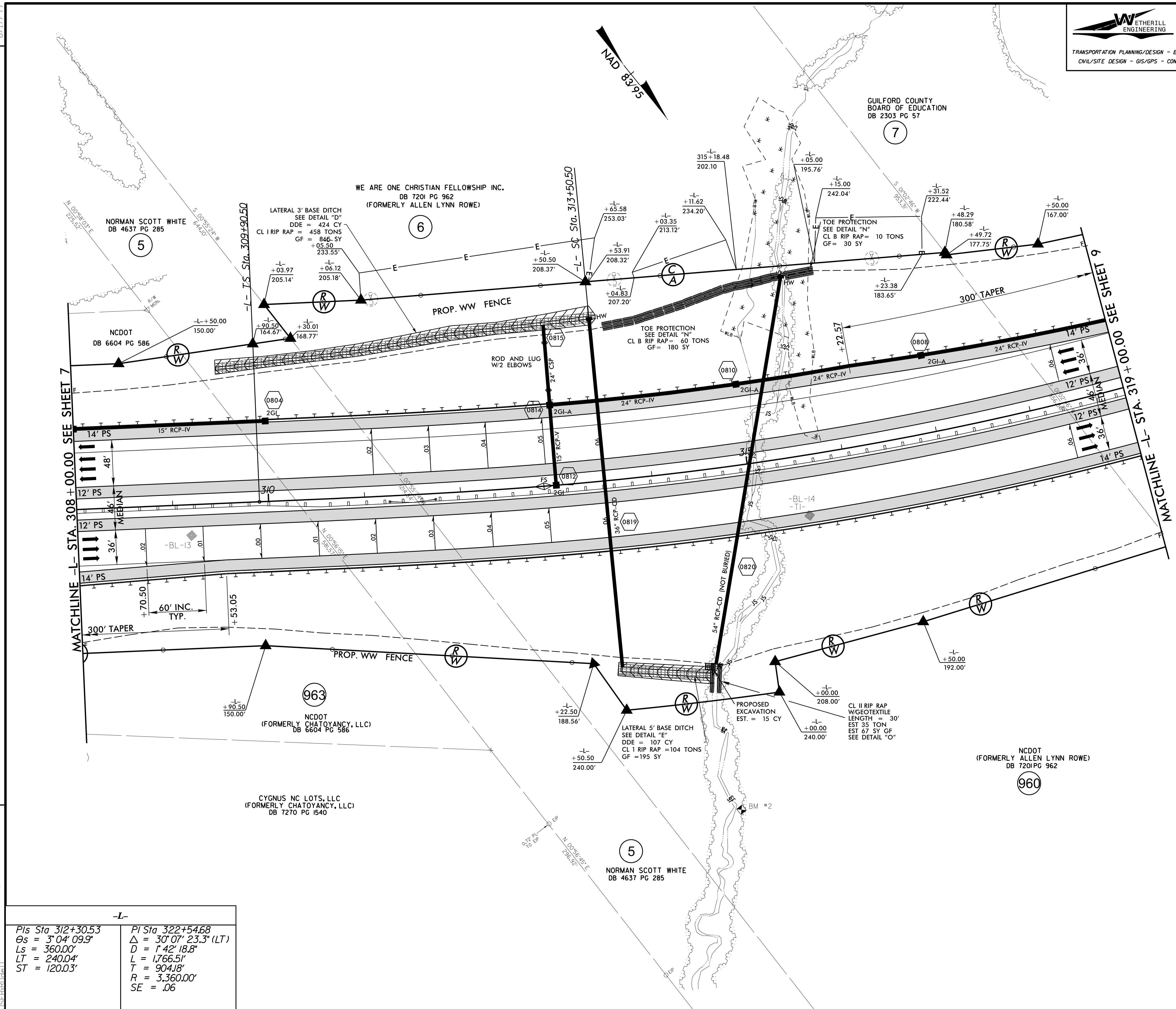
8/17/99

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 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

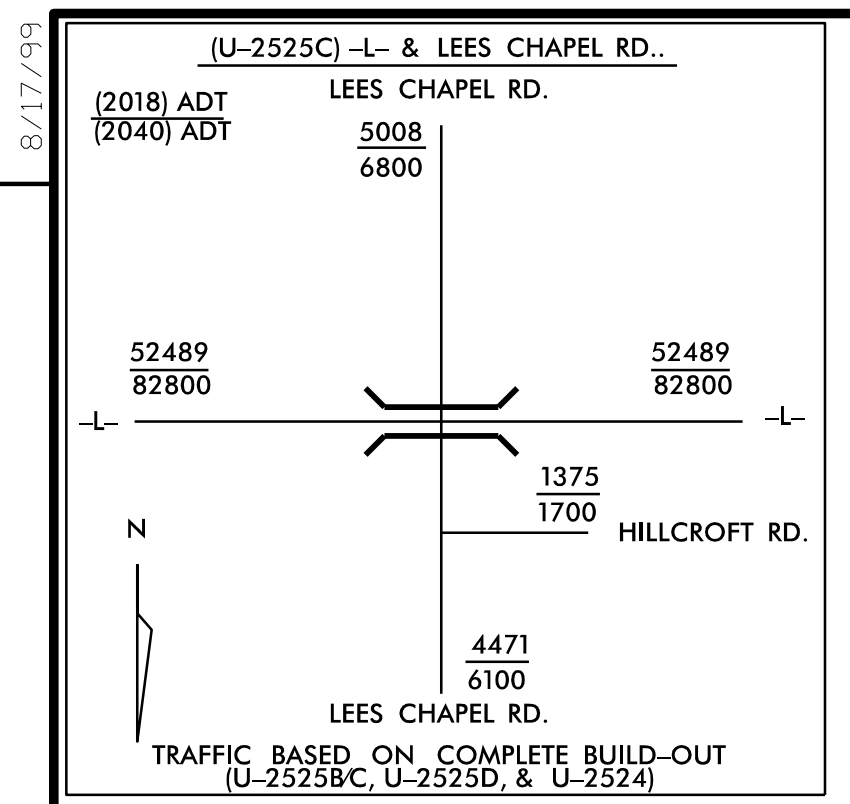
PROJECT REFERENCE NO. U-2525C	SHEET NO. 8
RW SHEET NO.	
ROADWAY DESIGN ENGINEER 1/8/2018 NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 21116 BOB A. MAY	HYDRAULICS ENGINEER 1/10/2018 NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 23993 MAY S. PRICE
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

REVISIONS



-L-	
Pls Sta 312+30.53	Pl Sta 322+54.68
Os = 3° 04' 09.9"	Δ = 30° 07' 23.3" (LT)
Ls = 360.00'	D = 1' 42' 18.8"
LT = 240.04'	L = 1,766.51'
ST = 120.03'	T = 904.18'
	R = 3,360.00'
	SE = .06

SEE SHEETS 2D-1 THRU 2D-7 FOR DRAINAGE DETAILS
 SEE SHEET 33 FOR -L- PROFILE

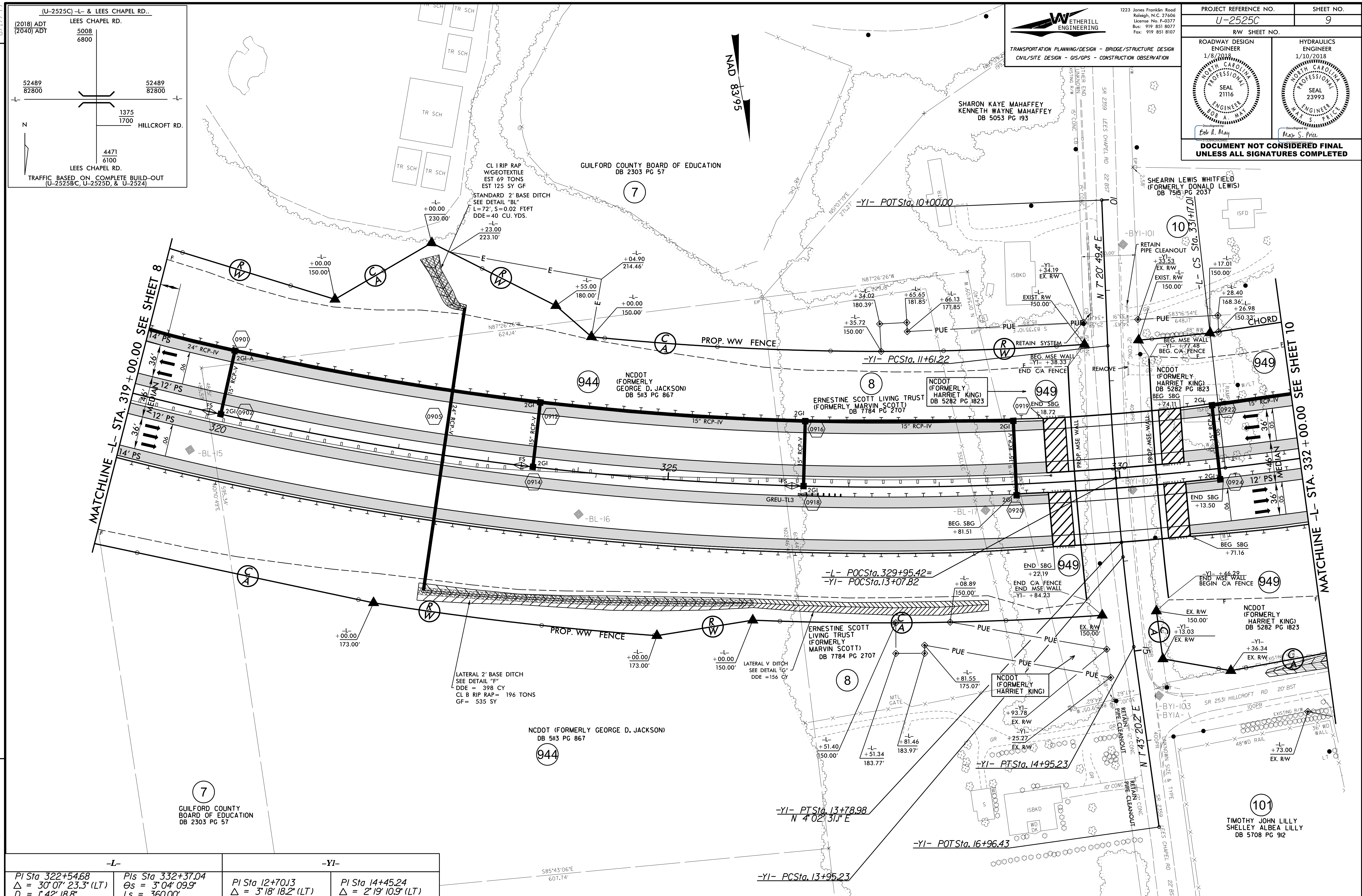


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PROJECT REFERENCE NO. U-2525C	SHEET NO. 9
RW SHEET NO.	HYDRAULICS ENGINEER 1/10/2018
ROADWAY DESIGN ENGINEER 1/8/2018	SEAL 21116
PROFESSIONAL ENGINEER BOB A. MAY	SEAL 23993
BOB A. MAY	MARY S. PRICE

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REVISIONS

12/27/2017 U-2525C-rdy_psh_09.dgn

-L-	-YI-	-L-	-YI-
PI Sta 322+54.68 Δ = 30° 07' 23.3" (LT) D = 1' 42' 18.8" L = 1766.5' T = 904.18' R = 3,360.00' SE = .06	PIs Sta 332+37.04 Os = 3° 04' 09.9" Ls = 360.00' LT = 240.04' ST = 120.03'	PI Sta 12+70.13 Δ = 3° 18' 18.2" (LT) D = 1' 31' 04.0" L = 217.76' T = 108.91' R = 3,775.00'	PI Sta 14+45.24 Δ = 2° 19' 10.9" (LT) D = 2' 19' 10.8" L = 100.00' T = 50.01' R = 2,470.00'

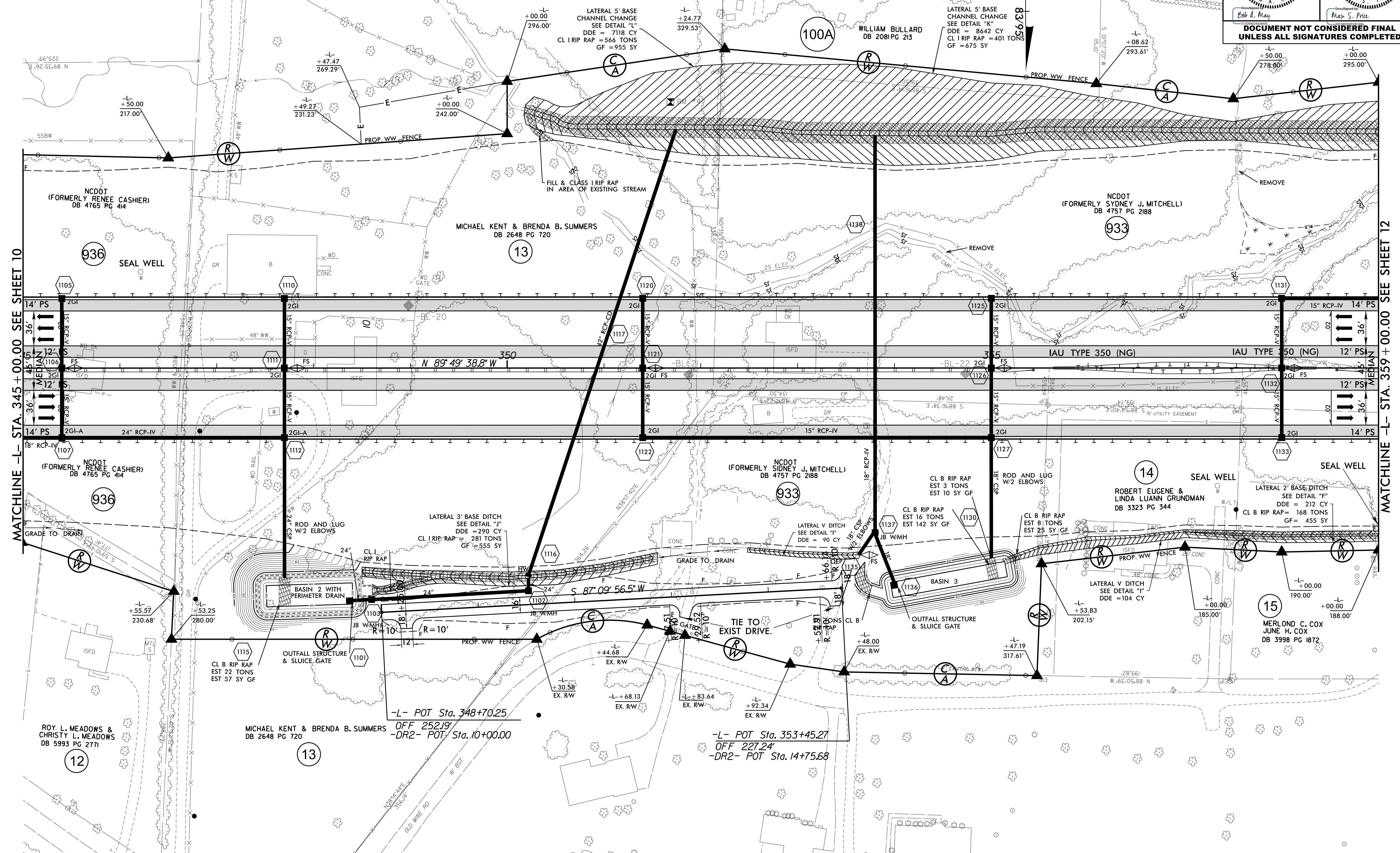
SEE SHEET 2B-1 FOR BRIDGE SKETCH
 SEE SHEETS 2D-1 THRU 2D-7 FOR DRAINAGE DETAILS
 SEE SHEETS 33 & 34 FOR -L- PROFILE
 SEE SHEET 48 FOR -YI- PROFILE
 SEE SHEETS S2-1 THRU S2-28 FOR STRUCTURE PLANS
 SEE SHEETS S3-1 THRU S3-28 FOR STRUCTURE PLANS

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PROJECT REFERENCE NO. U-2525C	SHEET NO. 11
RW SHEET NO.	
ROADWAY DESIGN ENGINEER 1/8/2018	HYDRAULICS ENGINEER 1/10/2018
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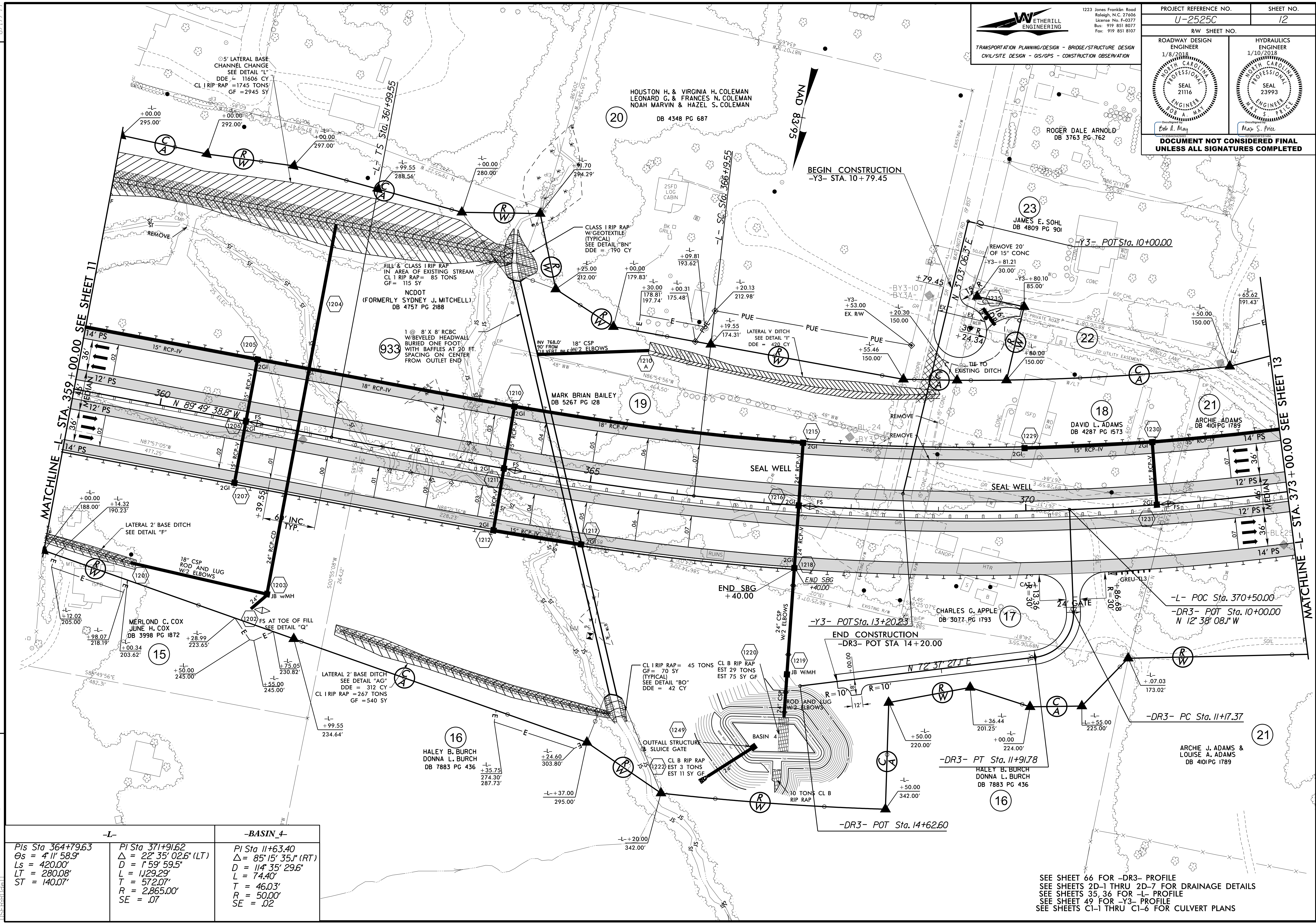
REVISIONS

MATCHLINE -L- STA. 345 + 00.00 SEE SHEET 10

MATCHLINE -L- STA. 359 + 00.00 SEE SHEET 12

SEE SHEETS 2D-1 THRU 2D-7 FOR DRAINAGE DETAILS
SEE SHEETS 34 & 35 FOR -L- PROFILE
SEE SHEET 66 FOR -DR2- PROFILE

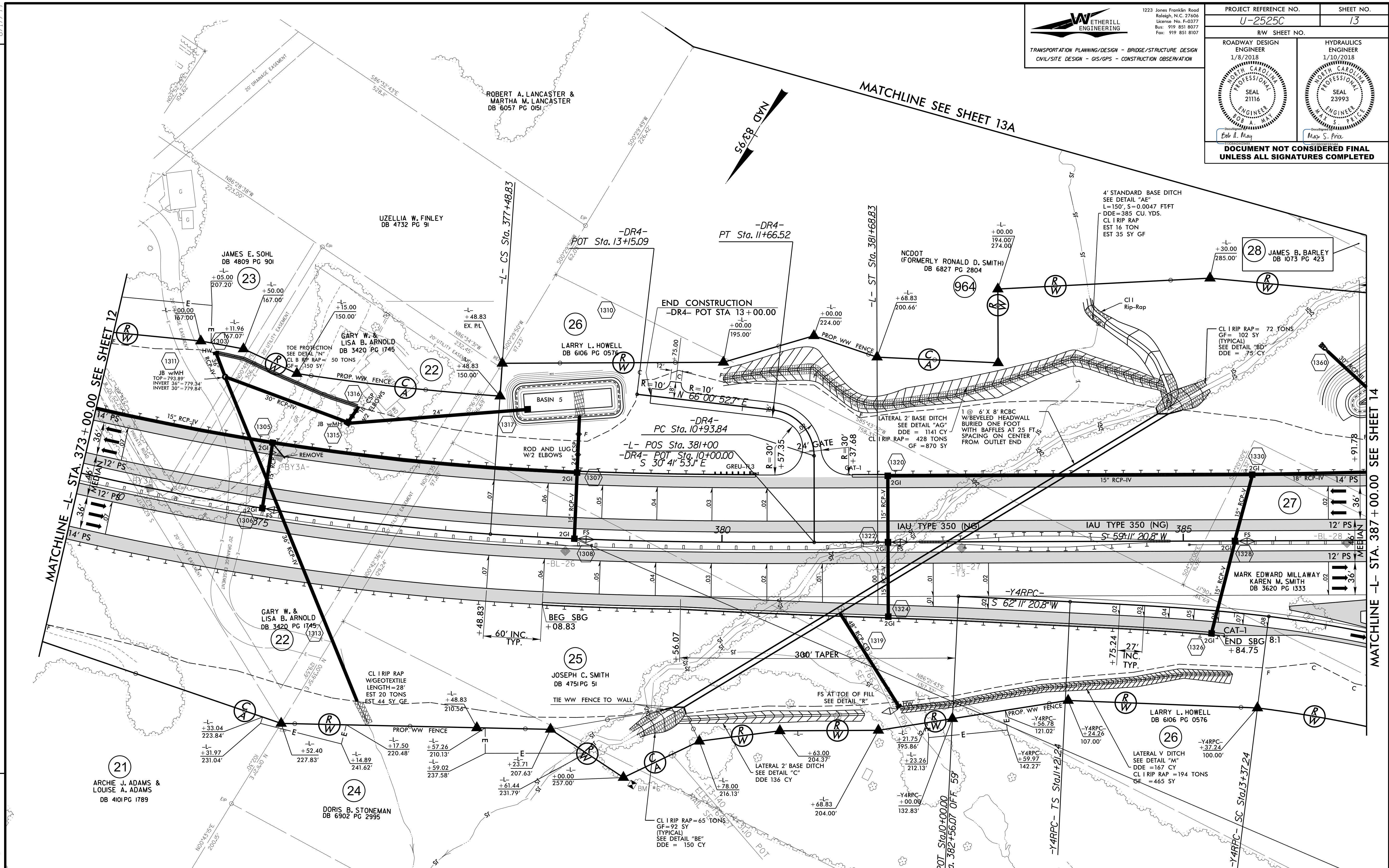
1/2/2018 u2525c_rdy_psh_11.dgn



REVISIONS

-L-	-BASIN 4-
PI Sta 364+79.63 Os = 4' 11" 58.9" Ls = 420.00' LT = 280.08' T = 572.07' R = 2,865.00' SE = .07	PI Sta 11+63.40 Δ = 85' 15" 35.1" (RT) D = 114' 35" 29.6" L = 74.40' T = 46.03' R = 50.00' SE = .02

SEE SHEET 66 FOR -DR3- PROFILE
 SEE SHEETS 2D-1 THRU 2D-7 FOR DRAINAGE DETAILS
 SEE SHEETS 35, 36 FOR -L- PROFILE
 SEE SHEET 49 FOR -Y3- PROFILE
 SEE SHEETS C1-1 THRU C1-6 FOR CULVERT PLANS



REVISIONS

-L-	-Y4RPC-	-BASIN 5-
PI Sta 371+91.62 $\Delta = 22^\circ 35' 02.6"$ (LT) $D = 1' 59' 59.5"$ $L = 1129.29'$ $T = 572.07'$ $R = 2,865.00'$ $SE = .07$	PIs Sta 378+88.90 $\Theta_s = 4' 11' 58.9"$ $L_s = 420.00'$ $LT = 280.08'$ $ST = 140.07'$	PIs Sta 12+65.28 $\Theta_s = 4' 17' 49.9"$ $L_s = 216.00'$ $LT = 144.04'$ $ST = 72.04'$
		PI Sta 16+83.01 $\Delta = 27^\circ 00' 14.5"$ (RT) $D = 3' 58' 43.9"$ $L = 678.69'$ $T = 345.77'$ $R = 1,440.00'$ $SE = .08$ $DS = 60 MPH$
		PI Sta 11+38.30 $\Delta = 83^\circ 17' 14.2"$ (LT) $D = 11' 35' 29.6"$ $L = 72.68'$ $T = 44.46'$ $R = 50.00'$ $SE = .02$

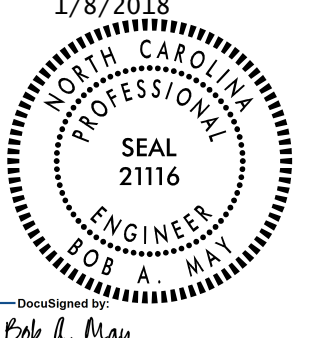
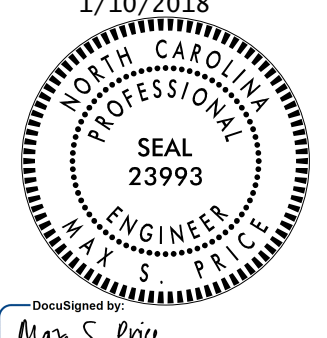
SEE SHEET 66 -DR4- PROFILE
 SEE SHEETS 2D-1 THRU 2D-7 FOR DRAINAGE DETAILS
 SEE SHEETS 36 & 37 FOR -L- PROFILE
 SEE SHEET 53 FOR -Y4RPC- PROFILE
 SEE SHEETS C2-1 THRU C2-6 FOR CULVERT PLANS

12/27/2017 12:25:25e:\cdu\psh_13.dgn
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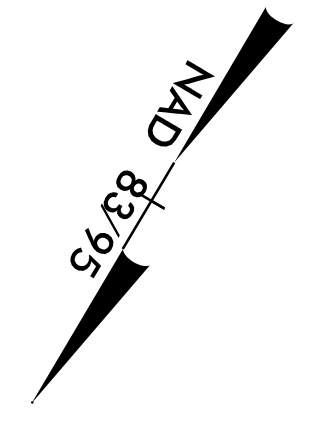
8.17.99

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PROJECT REFERENCE NO. <i>U-2525C</i>	SHEET NO. <i>13A</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER 1/8/2018  Bob A. May	HYDRAULICS ENGINEER 1/10/2018  Mary S. Price
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WILLOW OAK PARTNERS
DB 5605 PG 868
(32)



REVISIONS

(29B)

BAISE & BRENDA BARLEY
DB 2856 PG 747

(29A)

POSEY B. & GILDA BARLEY
DB 2856 PG 748
PB 72 PG 262

(964)

NCDOT
(FORMERLY RONALD D. SMITH)
DB 6827 PG 2804

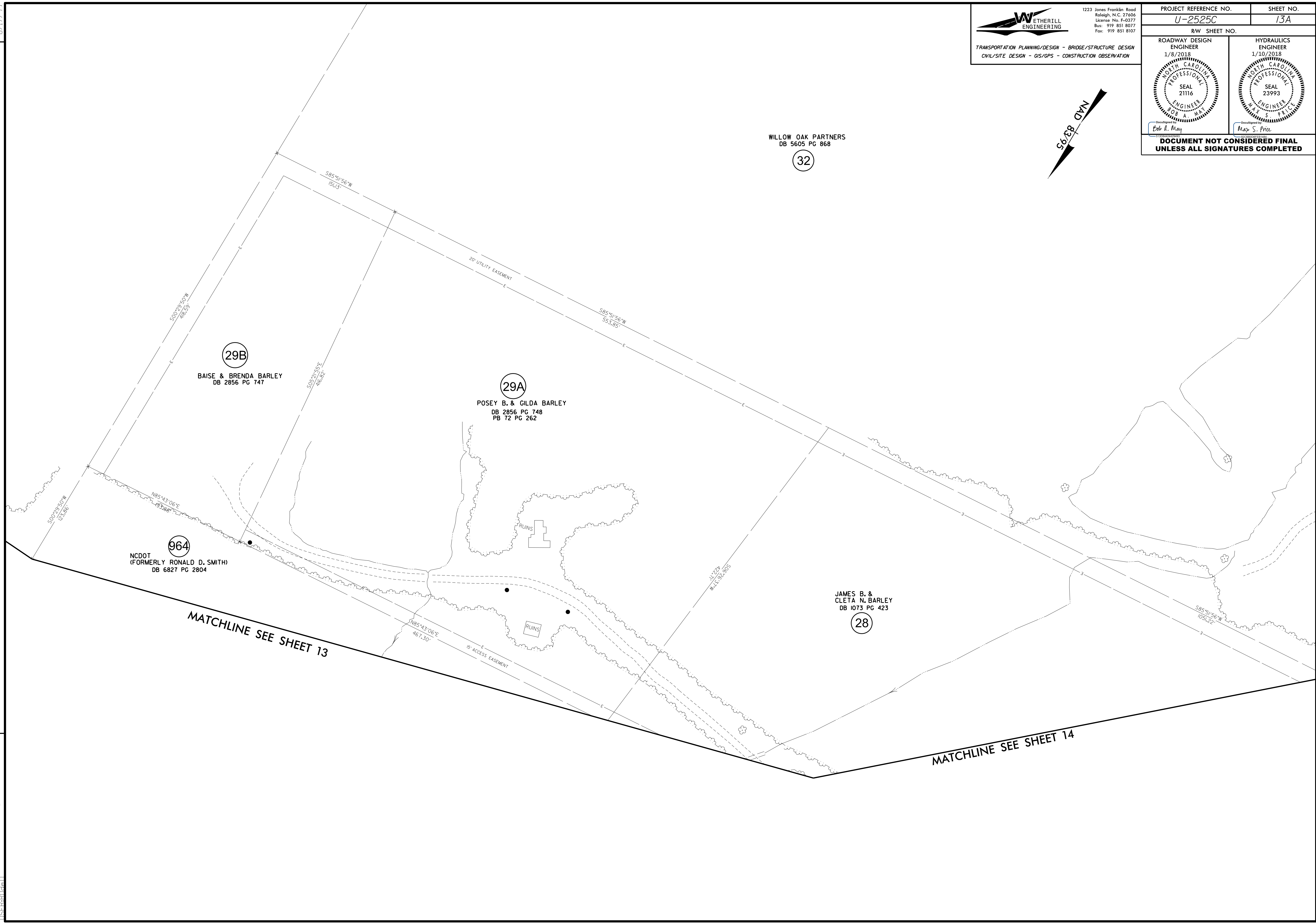
(28)

JAMES B. &
CLETA N. BARLEY
DB 1073 PG 423

MATCHLINE SEE SHEET 13

MATCHLINE SEE SHEET 14

12/6/2017
u:2525c_rdy_psh_13a.dgn
11:58:00 AM



B.17/99

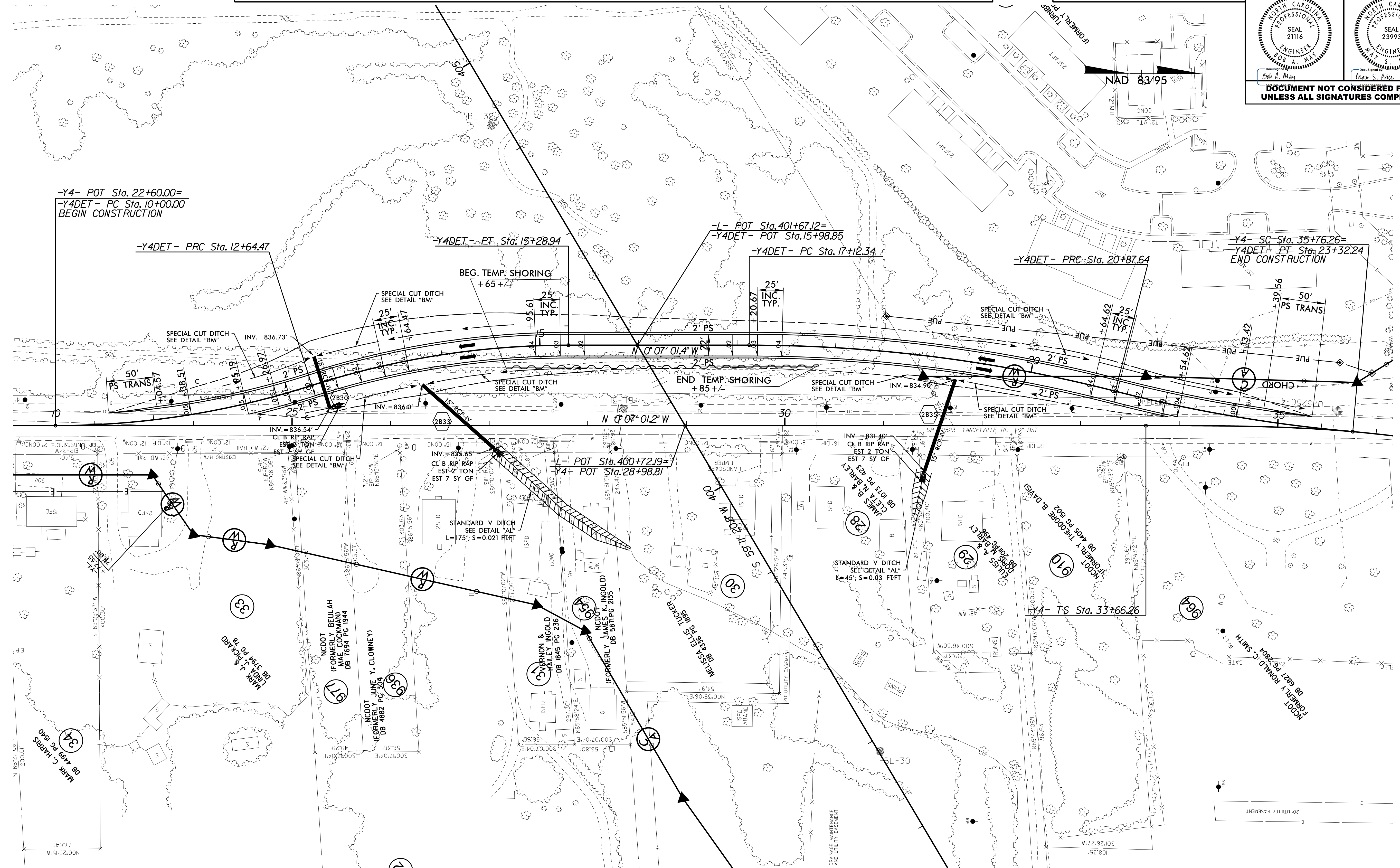
DETAIL OF -Y4DET- (YANCEVILLE RD.)

VDES. = 40 MPH

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PROJECT REFERENCE NO. U-2525C	SHEET NO. 14A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER 1/8/2018	HYDRAULICS ENGINEER 1/10/2018
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REVISIONS

-Y4-			-Y4DET-			
PI Sta 35+06.32	PI Sta 37+4.67	PI Sta 39+21.93	PI Sta 11+33.31	PI Sta 13+97.78	PI Sta 19+00.97	PI Sta 22+10.21
Gs = 4' 59' 33.3"	Δ = 13' 06' 17.8" (RT)	Gs = 4' 59' 33.3"	Δ = 17' 49' 37.3" (LT)	Δ = 17' 49' 36.9" (RT)	Δ = 14' 20' 08.0" (RT)	Δ = 9' 20' 34.4" (LT)
Ls = 210.00'	D = 4' 45' 17.4"	Ls = 210.00'	D = 6' 44' 26.4"	D = 6' 44' 26.4"	D = 3' 49' 11.0"	D = 3' 49' 11.0"
LT = 140.06'	L = 275.61'	LT = 140.06'	L = 264.47'	L = 264.47'	L = 375.30'	L = 244.60'
ST = 70.05'	T = 138.41'	ST = 70.05'	T = 133.31'	T = 133.31'	T = 188.64'	T = 122.57'
	R = 1,205.00'		R = 850.00'	R = 850.00'	R = 1,500.00'	R = 1,500.00'
	SE = .04		SE = .04	SE = .04	SE = .04	SE = .04

SEE SHEET 3B-2 FOR TEMP. SHORING SUMMARY
 SEE SHEET 14 FOR -L-, -Y4- PLAN VIEW
 SEE SHEET 68 FOR -Y4DET- PROFILE

12/6/2017 12:25:25e_rdy_psh_14a.dgn

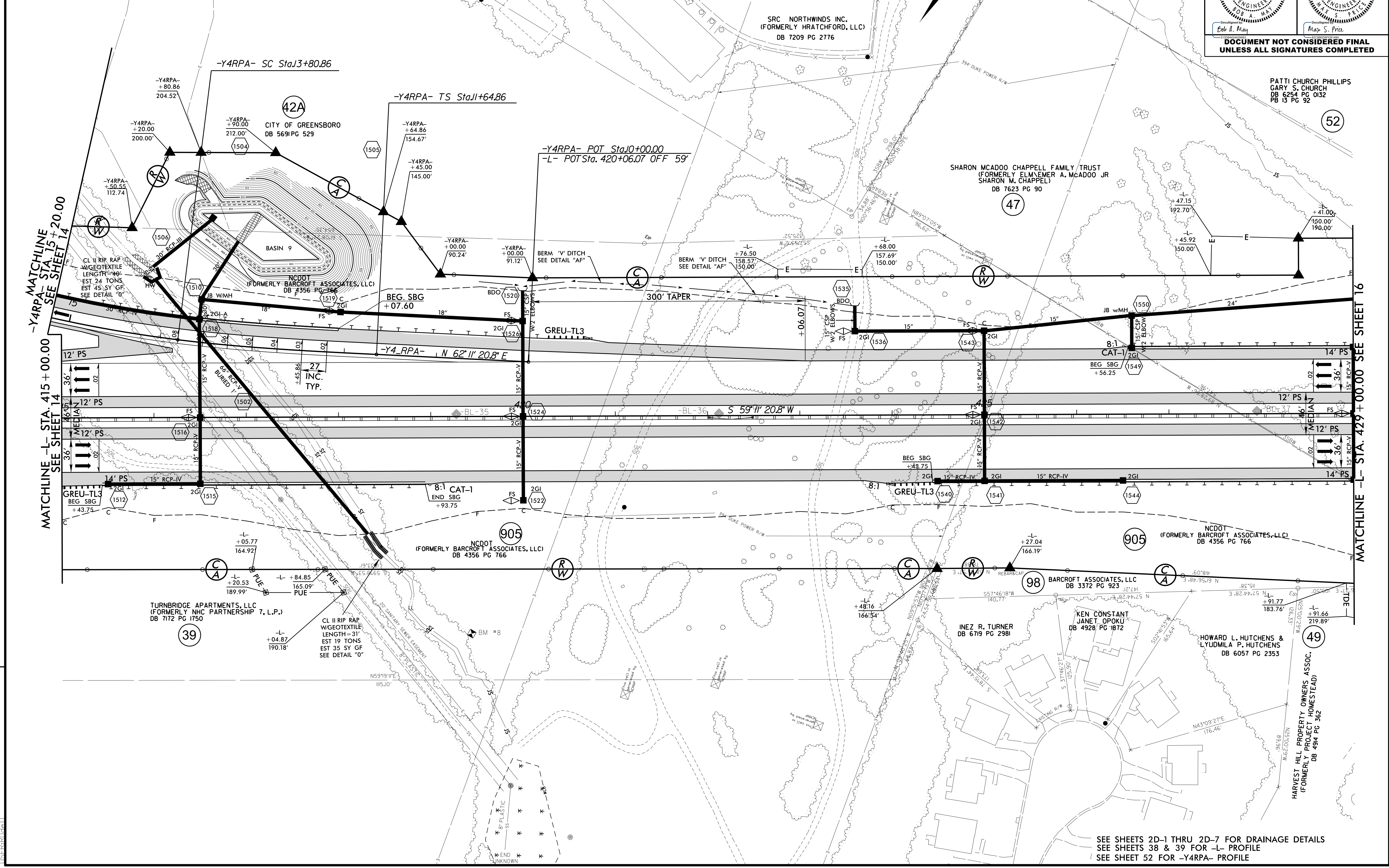
-Y4RPA-

Pls Sta 13+08.90	Pl Sta 16+23.12
$\Delta s = 4' 17.499''$	$\Delta = 19' 05' 58.5''$ (RT)
$Ls = 216.00'$	$D = 3' 58' 43.9''$
$LT = 144.04'$	$L = 480.02'$
$ST = 72.04'$	$T = 242.26'$
	$R = 1,440.00'$
	$SE = .08$
	$DS = 60$ MPH

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PROJECT REFERENCE NO. U-2525C	SHEET NO. 15
RW SHEET NO.	HYDRAULICS ENGINEER 1/10/2018
ROADWAY DESIGN ENGINEER 1/8/2018	SEAL 21116
SEAL 23993	SEAL 23993
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



REVISIONS

MATCHLINE -L- STA. 415 + 00.00
 SEE SHEET 14

MATCHLINE -L- STA. 15 + 20.00
 SEE SHEET 14

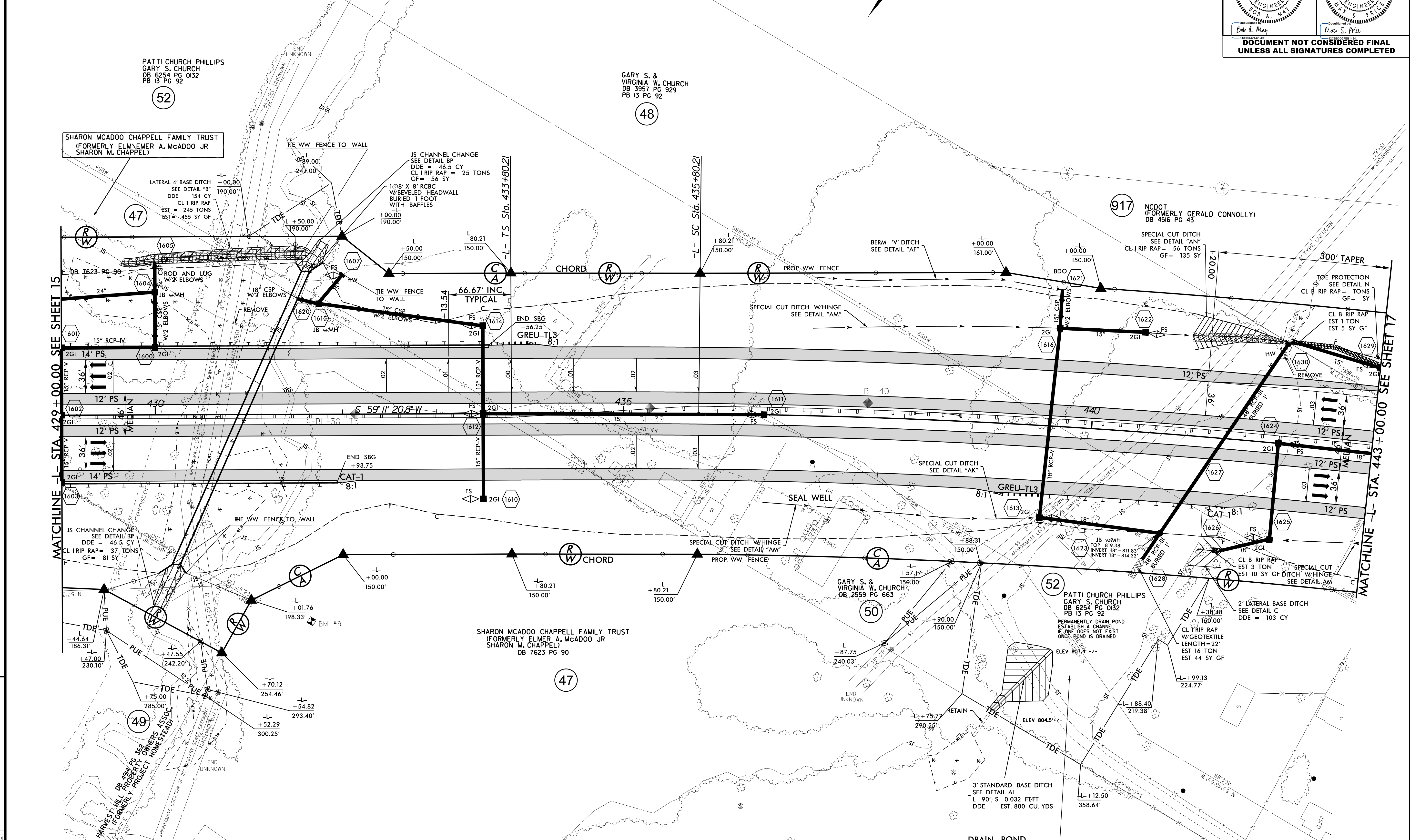
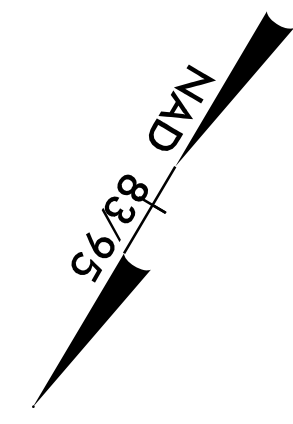
MATCHLINE -L- STA. 429 + 00.00
 SEE SHEET 16

SEE SHEETS 2D-1 THRU 2D-7 FOR DRAINAGE DETAILS
 SEE SHEETS 38 & 39 FOR -L- PROFILE
 SEE SHEET 52 FOR -Y4RPA- PROFILE

12/6/2017
 U-2525C-rdy-psh-15.dgn

-L-

Pts Sta 435+13.54 $\theta_s = 0^\circ 45' 50.2''$ $L_s = 200.00'$ $LT = 133.33'$ $ST = 66.67'$	PI Sta 469+05.74 $\Delta = 47^\circ 49' 31.4''$ (RT) $D = 0^\circ 45' 50.2''$ $L = 6,260.33'$ $T = 3,325.53'$ $R = 7,500.00'$ $SE = .03$
--	--



REVISIONS

MATCHLINE -L- STA. 429+00.00 SEE SHEET 15

MATCHLINE -L- STA. 443+00.00 SEE SHEET 17

DRAIN POND
 -L- STA. 440+15 TO 441+97
 310' RT. TO 92' LT.

SEE SHEETS 2D-1 THRU 2D-7 FOR DRAINAGE DETAILS
 SEE SHEET 39 FOR -L- PROFILE
 SEE SHEETS C3-1 THRU C3-5 FOR CULVERT PLANS

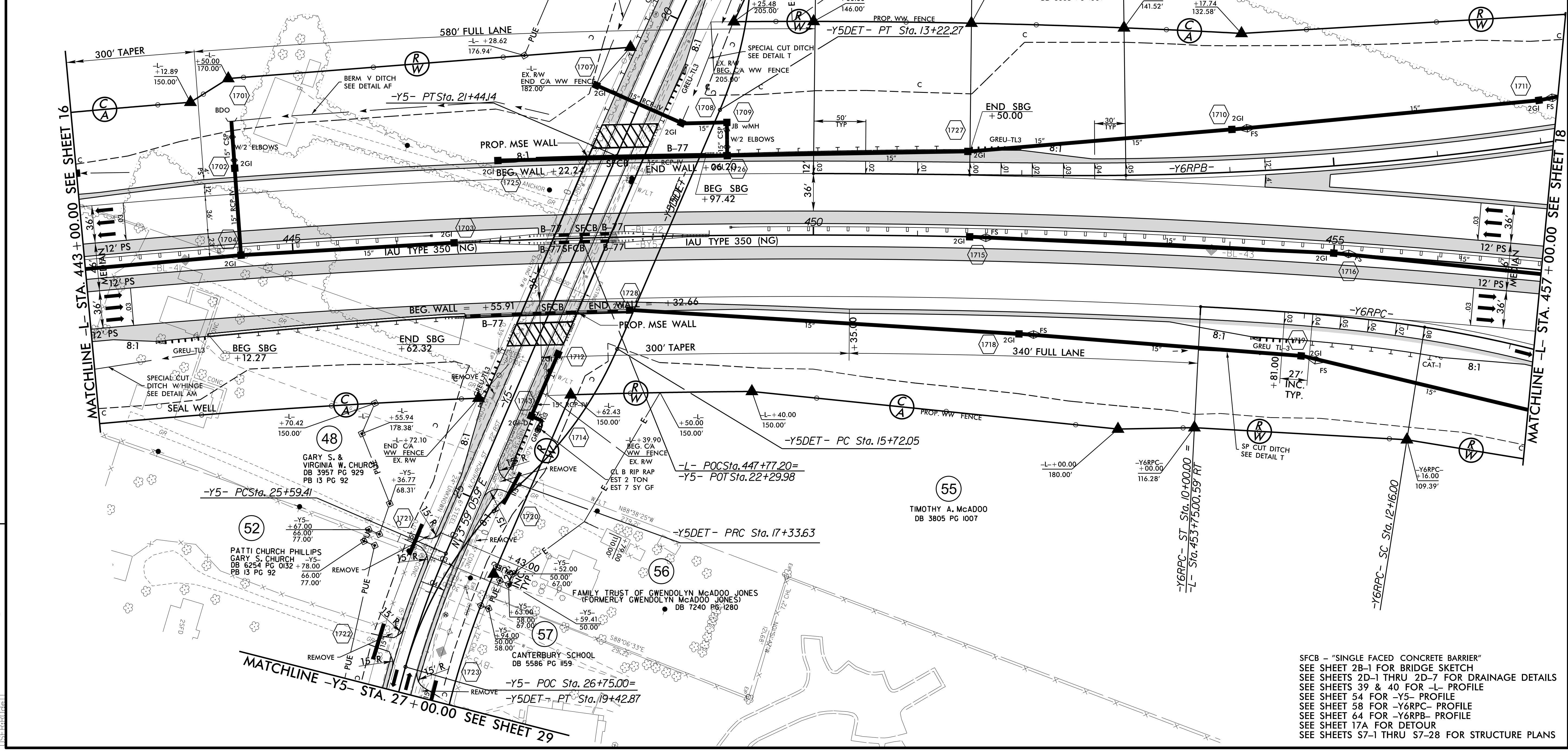
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 Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. U-2525C	SHEET NO. 17
ROADWAY DESIGN ENGINEER 1/8/2018	HYDRAULICS ENGINEER 1/10/2018
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
(U-2525C) -L- & N. CHURCH ST.	
(2018) ADT (2040) ADT	N. CHURCH ST. 14475 19200
60030 93600	60030 93600
TRAFFIC BASED ON COMPLETE BUILD-OUT (U-2525BC, U-2525D, & U-2524)	

-L-		-Y6RPB-		
Pts Sta 435+13.54 $\Delta s = 0' 45' 50.2"$ $Ls = 200.00'$ $LT = 133.33'$ $ST = 66.67'$	Pts Sta 469+05.74 $\Delta = 47' 49' 31.4" (RT)$ $D = 0' 45' 50.2"$ $L = 6,260.33'$ $T = 3,325.53'$ $R = 7,500.00'$ $SE = .03$	Pts Sta 10+50.00 $s = 0' 34' 06.5"$ $Ls = 150.00'$ $LT = 100.00'$ $ST = 50.00'$	Pts Sta 12+50.00 $\Delta s = 1' 23' 10.3"$ $Ls = 150.00'$ $LT = 100.00'$ $ST = 50.00'$	Pts Sta 16+71.13 $\Delta = 13' 39' 13.3" (LT)$ $D = 1' 50' 53.7"$ $L = 738.74'$ $T = 371.13'$ $R = 3,100.00'$ $SE = .05$ $DS = 60mph$
-Y5-				
Pts Sta 19+96.46 $\Delta = 3' 12' 21.5" (LT)$ $D = 1' 05' 06.5"$ $L = 295.44'$ $T = 147.76'$ $R = 5,280.00'$ $SE = RC$ $DS = 50 MPH$	Pts Sta 27+08.79 $\Delta = 18' 50' 52.1" (LT)$ $D = 6' 21' 58.3"$ $L = 296.06'$ $T = 149.38'$ $R = 900.00'$ $SE = 04$ $DS = 45 MPH$			
-Y6RPC-				
Pts Sta 11+34.09 $\Delta s = 0' 49' 50.4"$ $\Delta s = 5' 09' 27.2"$ $Ls = 216.00'$ $LT = 134.09'$ $ST = 82.08'$	Pts Sta 15+61.46 $\Delta = 32' 07' 13.8" (RT)$ $D = 4' 46' 28.7"$ $L = 672.73'$ $T = 345.46'$ $R = 1,200.00'$ $SE = .08$ $DS = 60mph$			



SFCB - "SINGLE FACED CONCRETE BARRIER"
 SEE SHEET 2B-1 FOR BRIDGE SKETCH
 SEE SHEETS 2D-1 THRU 2D-7 FOR DRAINAGE DETAILS
 SEE SHEETS 39 & 40 FOR -L- PROFILE
 SEE SHEET 54 FOR -Y5- PROFILE
 SEE SHEET 58 FOR -Y6RPC- PROFILE
 SEE SHEET 64 FOR -Y6RPB- PROFILE
 SEE SHEET 17A FOR DETOUR
 SEE SHEETS S7-1 THRU S7-28 FOR STRUCTURE PLANS

REVISIONS

12/27/2017 U-2525C-rdy-psh-17.dgn

DETAIL OF -Y5DET- (N. CHURCH ST.)

VDES. = 35 MPH

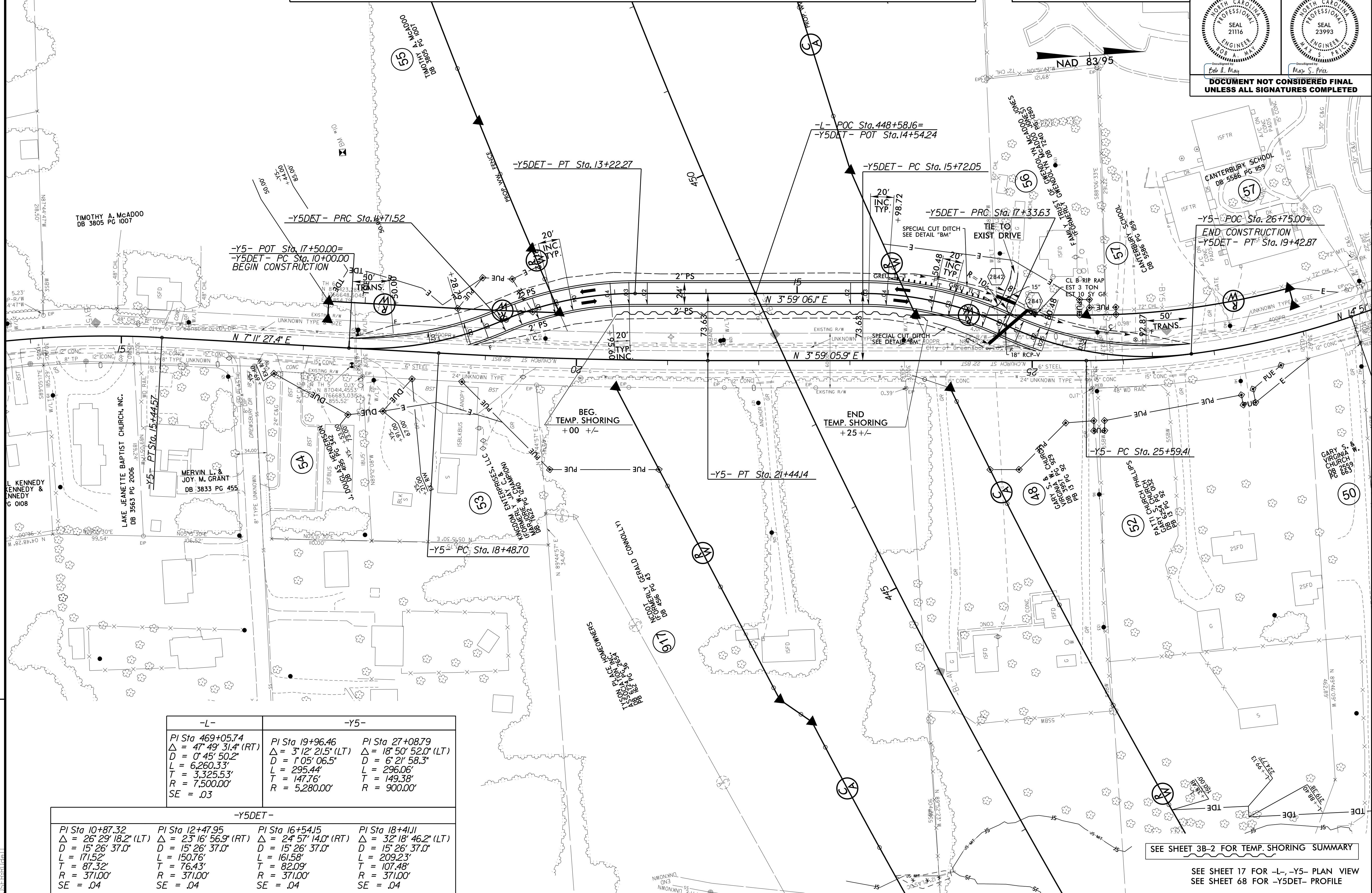
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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. U-2525C	SHEET NO. 17A
RW SHEET NO.	HYDRAULICS ENGINEER 1/10/2018
ROADWAY DESIGN ENGINEER 1/8/2018	ENGINEER SEAL 23993
ENGINEER SEAL 21116	ENGINEER SEAL 23993
Bob A. May	May S. Price

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

REVISIONS



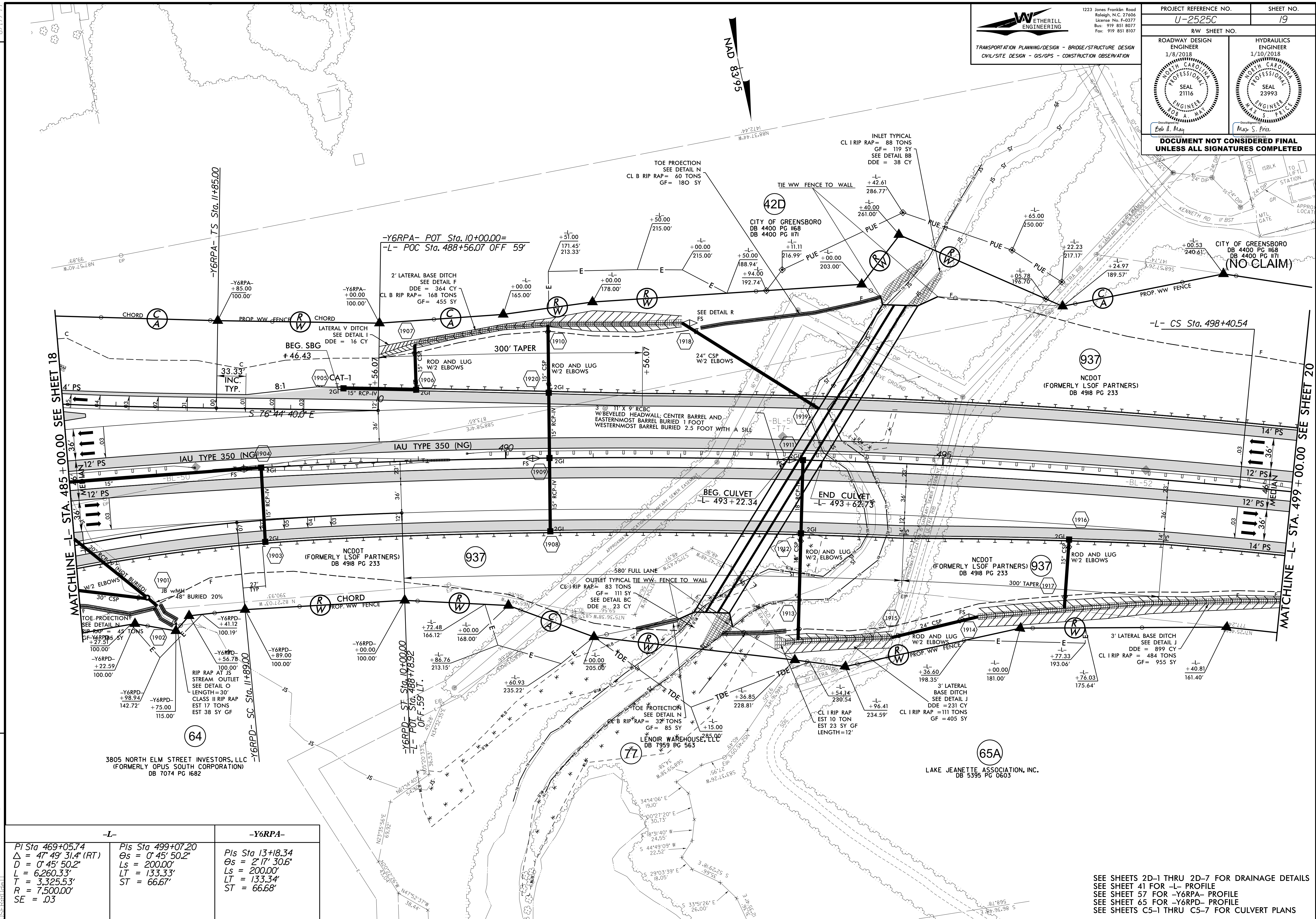
-L-	-Y5-	
PI Sta 469+05.74	PI Sta 19+96.46	PI Sta 27+08.79
$\Delta = 47^{\circ} 49' 31.4" (RT)$	$\Delta = 3^{\circ} 12' 21.5" (LT)$	$\Delta = 18^{\circ} 50' 52.0" (LT)$
D = 0' 45' 50.2"	D = 1' 05' 06.5"	D = 6' 21' 58.3"
L = 6,260.33'	L = 295.44'	L = 296.06'
T = 3,325.53'	T = 147.76'	T = 149.38'
R = 7,500.00'	R = 5,280.00'	R = 900.00'
SE = .03		

-Y5DET-			
PI Sta 10+87.32	PI Sta 12+47.95	PI Sta 16+54.15	PI Sta 18+41.11
$\Delta = 26^{\circ} 29' 18.2" (LT)$	$\Delta = 23^{\circ} 16' 56.9" (RT)$	$\Delta = 24^{\circ} 57' 14.0" (RT)$	$\Delta = 32^{\circ} 18' 46.2" (LT)$
D = 15' 26' 37.0"	D = 15' 26' 37.0"	D = 15' 26' 37.0"	D = 15' 26' 37.0"
L = 171.52'	L = 150.76'	L = 161.58'	L = 209.23'
T = 87.32'	T = 76.43'	T = 82.09'	T = 107.48'
R = 371.00'	R = 371.00'	R = 371.00'	R = 371.00'
SE = .04	SE = .04	SE = .04	SE = .04

SEE SHEET 3B-2 FOR TEMP. SHORING SUMMARY

SEE SHEET 17 FOR -L-, -Y5- PLAN VIEW
SEE SHEET 68 FOR -Y5DET- PROFILE

12/6/2017 12:25:25c_rdy_psh_17A.dgn



REVISIONS

MATCHLINE -L- STA. 485 + 00.00 SEE SHEET 18

MATCHLINE -L- STA. 499 + 00.00 SEE SHEET 20

-L-	-Y6RPA-
Pls Sta 469+05.74 $\Delta = 47^{\circ} 49' 31.4" (RT)$ $D = 0' 45' 50.2"$ $L = 6,260.33'$ $T = 3,325.53'$ $R = 7,500.00'$ $SE = .03$	Pls Sta 13+18.34 $\Theta_s = 0' 45' 50.2"$ $L_s = 2' 17' 30.6"$ $L_s = 200.00'$ $LT = 133.33'$ $ST = 66.67'$

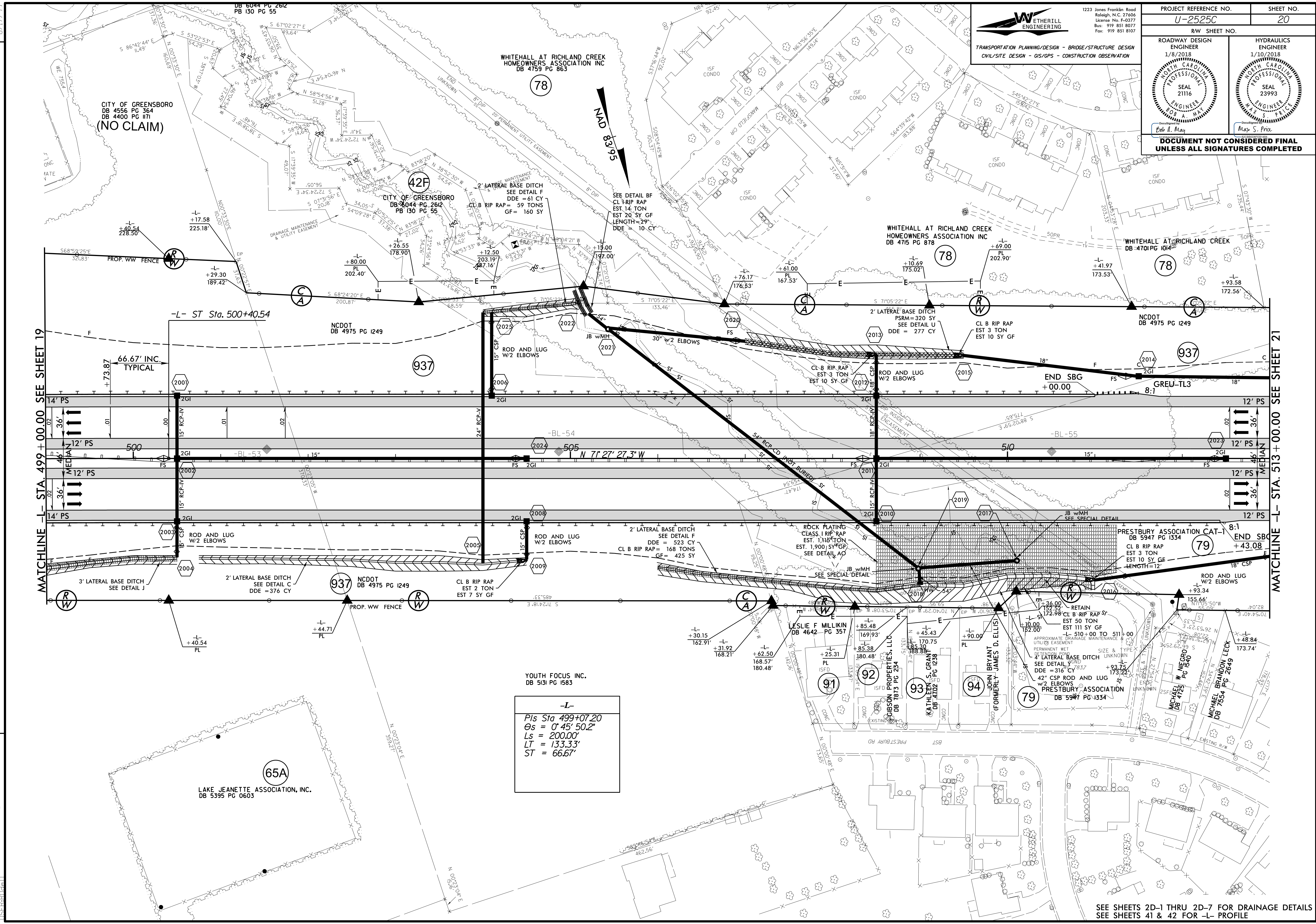
SEE SHEETS 2D-1 THRU 2D-7 FOR DRAINAGE DETAILS
 SEE SHEET 41 FOR -L- PROFILE
 SEE SHEET 57 FOR -Y6RPA- PROFILE
 SEE SHEET 65 FOR -Y6RPD- PROFILE
 SEE SHEETS C5-1 THRU C5-7 FOR CULVERT PLANS

12/27/2017 11:52:25 AM rdy_psh_19.dgn
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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. U-2525C	SHEET NO. 20
RW SHEET NO.	
ROADWAY DESIGN ENGINEER 1/8/2018	HYDRAULICS ENGINEER 1/10/2018
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



MATCHLINE -L- STA. 499 + 00.00 SEE SHEET 19

MATCHLINE -L- STA. 513 + 00.00 SEE SHEET 21

-L-
 Pls Sta 499+07.20
 Gs = 0' 45" 50.2"
 Ls = 200.00'
 LT = 133.33'
 ST = 66.67'

SEE SHEETS 2D-1 THRU 2D-7 FOR DRAINAGE DETAILS
SEE SHEETS 41 & 42 FOR -L- PROFILE

REVISIONS

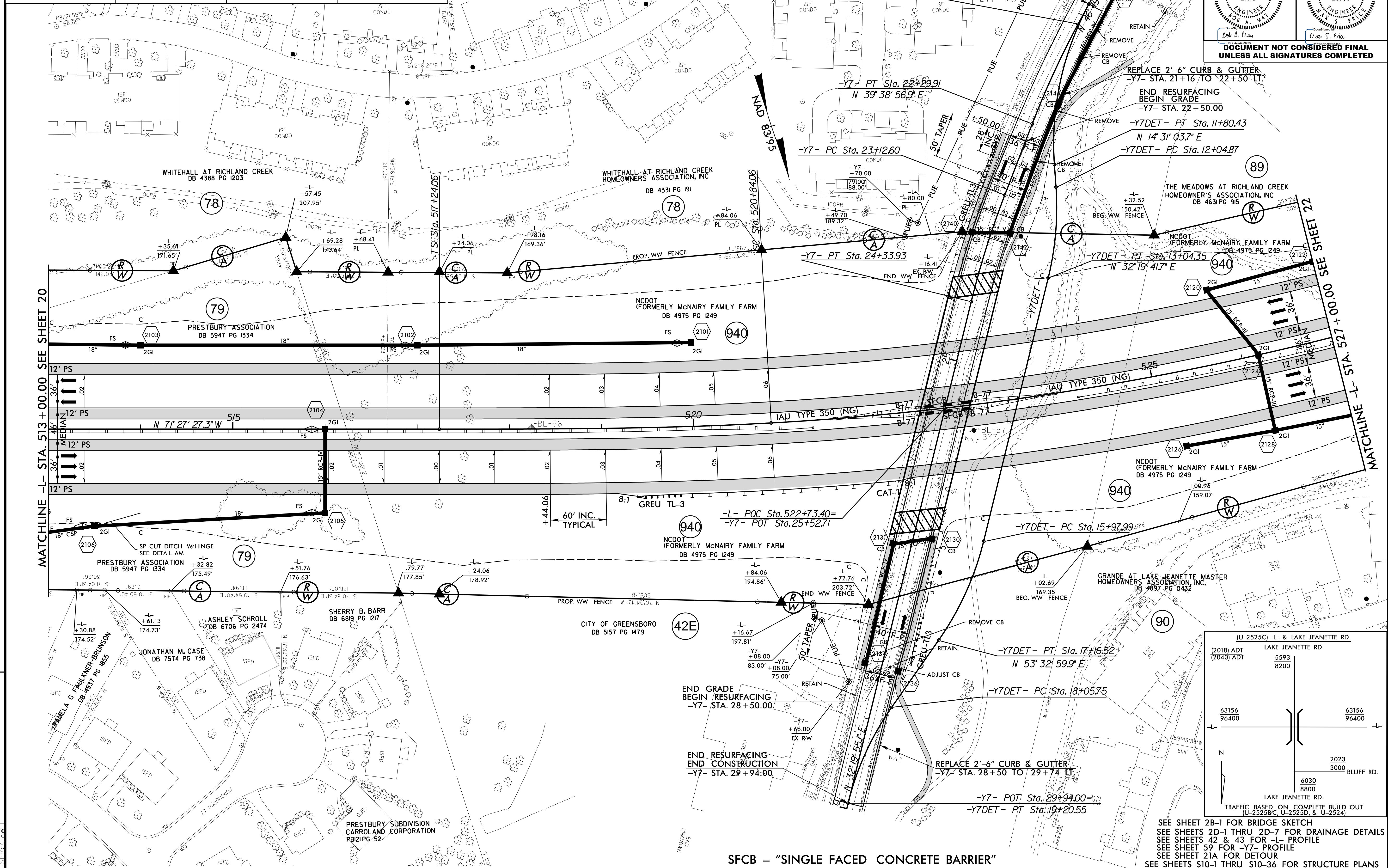
12/6/2017 U-2525C-rdy_psh_20.dgn

<p>-L-</p> <p>PI Sta 519+64.10 $\Delta s = 3' 12' 10.3"$ $Ls = 360.00'$ $LT = 240.04'$ $ST = 120.04'$</p>	<p>-Y7-</p> <p>PI Sta 524+77.54 $\Delta = 13' 56' 01.8" (LT)$ $D = 1' 46' 45.7"$ $L = 783.08'$ $T = 393.48'$ $R = 3,220.00'$</p>	<p>PI Sta 21+70.50 $\Delta = 7' 10' 29.6" (LT)$ $D = 6' 01' 52.1"$ $L = 118.96'$ $T = 59.56'$ $R = 950.00'$ $SE = EXIST.$</p>	<p>PI Sta 23+73.35 $\Delta = 7' 19' 01.8" (LT)$ $D = 6' 01' 52.1"$ $L = 121.32'$ $T = 60.74'$ $R = 950.00'$ $SE = SEE PLANS$</p>
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 TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

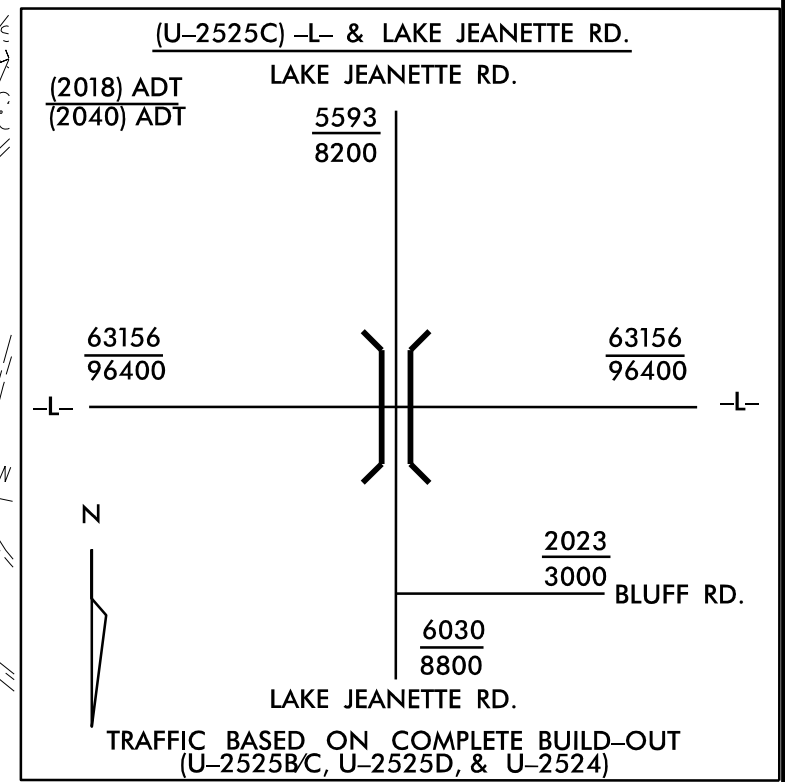
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PROJECT REFERENCE NO. U-2525C	SHEET NO. 21
ROADWAY DESIGN ENGINEER 1/8/2018 BOB H. MAY SEAL 21116	HYDRAULICS ENGINEER 1/10/2018 MAY S. PRICE SEAL 23993
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



REVISIONS

12/27/2017 U-2525C_rdy_psh_21.dgn



SEE SHEET 2B-1 FOR BRIDGE SKETCH
 SEE SHEETS 2D-1 THRU 2D-7 FOR DRAINAGE DETAILS
 SEE SHEETS 42 & 43 FOR -L- PROFILE
 SEE SHEET 59 FOR -Y7- PROFILE
 SEE SHEET 21A FOR DETOUR
 SEE SHEETS S10-1 THRU S10-36 FOR STRUCTURE PLANS

SFCB - "SINGLE FACED CONCRETE BARRIER"

8.17.17.99

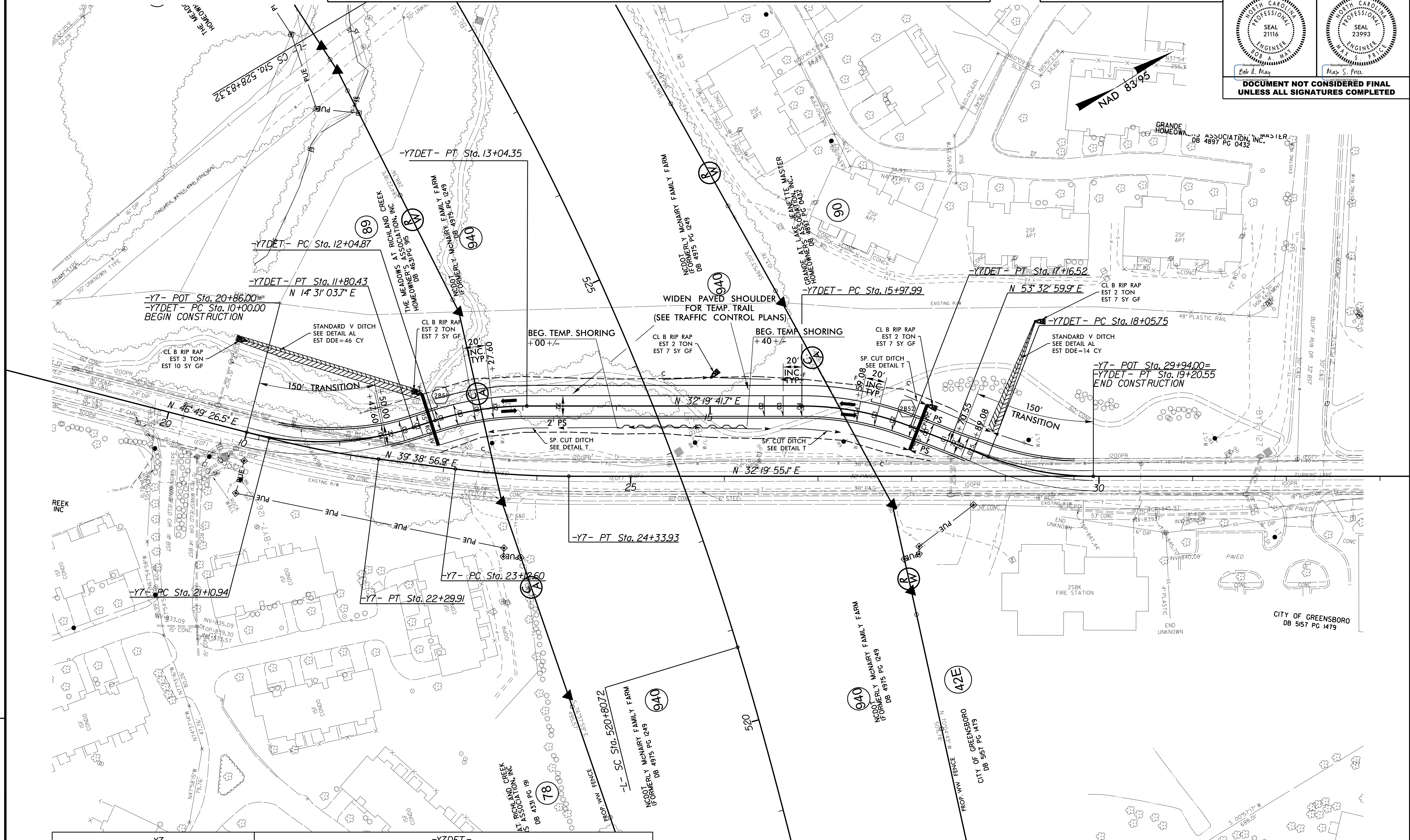
DETAIL OF -Y7DET- (LAKE JEANETTE RD.)

VDES. = 35 MPH

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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. U-2525C	SHEET NO. 21A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER 1/8/2018	HYDRAULICS ENGINEER 1/10/2018
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



REVISIONS

-Y7-		-Y7DET-			
PI Sta. 21+70.50	PI Sta. 23+73.35	PI Sta. 10+92.68	PI Sta. 12+55.01	PI Sta. 16+57.94	PI Sta. 18+63.81
$\Delta = 7' 10' 29.6''$ (LT)	$\Delta = 7' 19' 01.8''$ (LT)	$\Delta = 32' 18' 22.8''$ (LT)	$\Delta = 17' 48' 37.9''$ (RT)	$\Delta = 21' 13' 18.2''$ (RT)	$\Delta = 21' 13' 04.8''$ (LT)
$D = 6' 01' 52.1''$	$D = 6' 01' 52.1''$	$D = 17' 54' 17.8''$	$D = 17' 54' 17.8''$	$D = 17' 54' 17.8''$	$D = 18' 28' 57.0''$
$L = 118.96'$	$L = 121.32'$	$L = 180.43'$	$L = 99.47'$	$L = 118.52'$	$L = 114.80'$
$T = 59.56'$	$T = 60.74'$	$T = 92.68'$	$T = 50.14'$	$T = 59.95'$	$T = 58.07'$
$R = 950.00'$	$R = 950.00'$	$R = 320.00'$	$R = 320.00'$	$R = 320.00'$	$R = 310.00'$
SE = SEE PLANS	SE = SEE PLANS	SE = .04	SE = .02	SE = .04	SE = .04

SEE SHEET 3B-2 FOR TEMP. SHORING SUMMARY

SEE SHEETS 2D-1 THRU 2D-6 FOR DRAINAGE DETAILS
 SEE SHEET 21 FOR -L-, -Y7- PLAN VIEW
 SEE SHEET 69 FOR -Y7DET- PROFILE

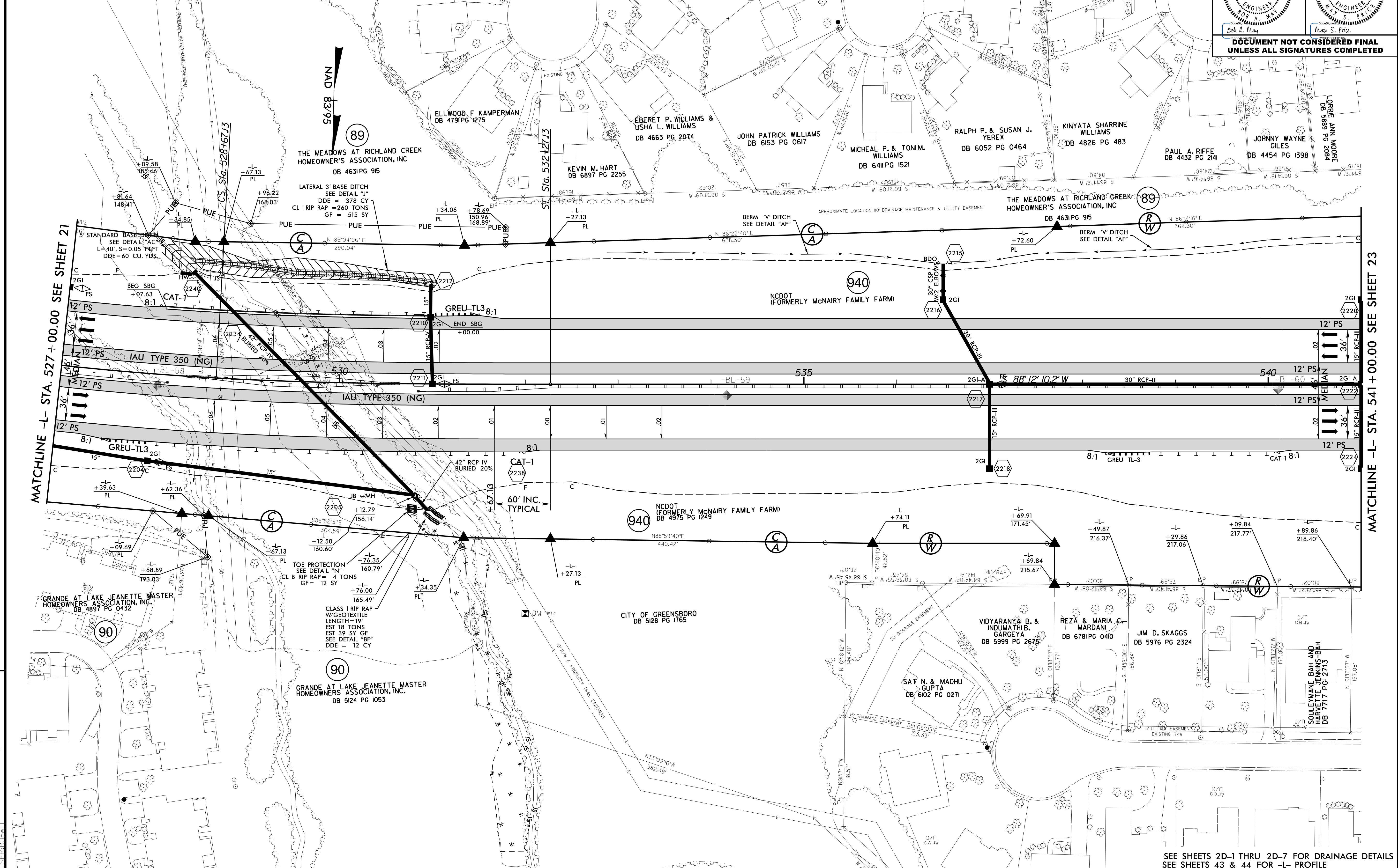
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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. U-2525C	SHEET NO. 22
RW SHEET NO.	
ROADWAY DESIGN ENGINEER 1/8/2018	HYDRAULICS ENGINEER 1/10/2018
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

-L-	
PI Sta 524+77.54 Δ = 13° 56' 01.8" (LT) D = 146' 45.7" L = 783.08' T = 393.48' R = 3,220.00'	PIs Sta 529+87.17 Θs = 3° 12' 10.3" Ls = 360.00' LT = 240.04' ST = 120.04'



MATCHLINE -L- STA. 527 + 00.00 SEE SHEET 21

MATCHLINE -L- STA. 541 + 00.00 SEE SHEET 23

REVISIONS

12/6/2017 U-2525C-rdy_psh_22.dgn

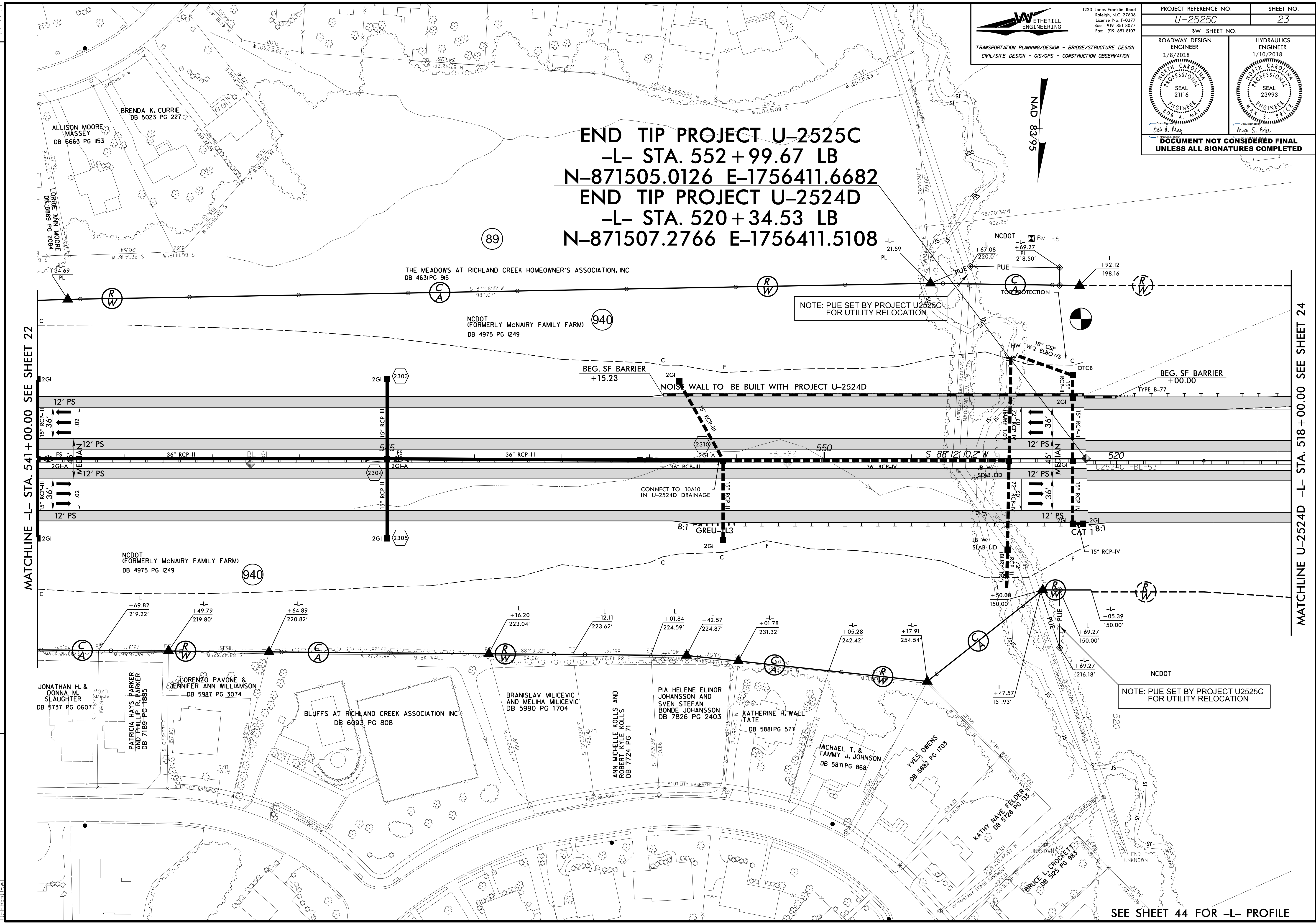
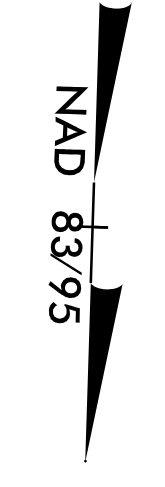
SEE SHEETS 2D-1 THRU 2D-7 FOR DRAINAGE DETAILS
 SEE SHEETS 43 & 44 FOR -L- PROFILE

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 TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

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PROJECT REFERENCE NO. U-2525C	SHEET NO. 23
RW SHEET NO.	
ROADWAY DESIGN ENGINEER 1/8/2018	HYDRAULICS ENGINEER 1/10/2018
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

END TIP PROJECT U-2525C
 -L- STA. 552+99.67 LB
 N-871505.0126 E-1756411.6682
END TIP PROJECT U-2524D
 -L- STA. 520+34.53 LB
 N-871507.2766 E-1756411.5108



NOTE: PUE SET BY PROJECT U2525C FOR UTILITY RELOCATION

NOTE: PUE SET BY PROJECT U2525C FOR UTILITY RELOCATION

MATCHLINE -L- STA. 541+00.00 SEE SHEET 22

MATCHLINE U-2524D -L- STA. 518+00.00 SEE SHEET 24

REVISIONS

12/6/2017 U-2525c_rdy_psh_23.dgn

SEE SHEET 44 FOR -L- PROFILE

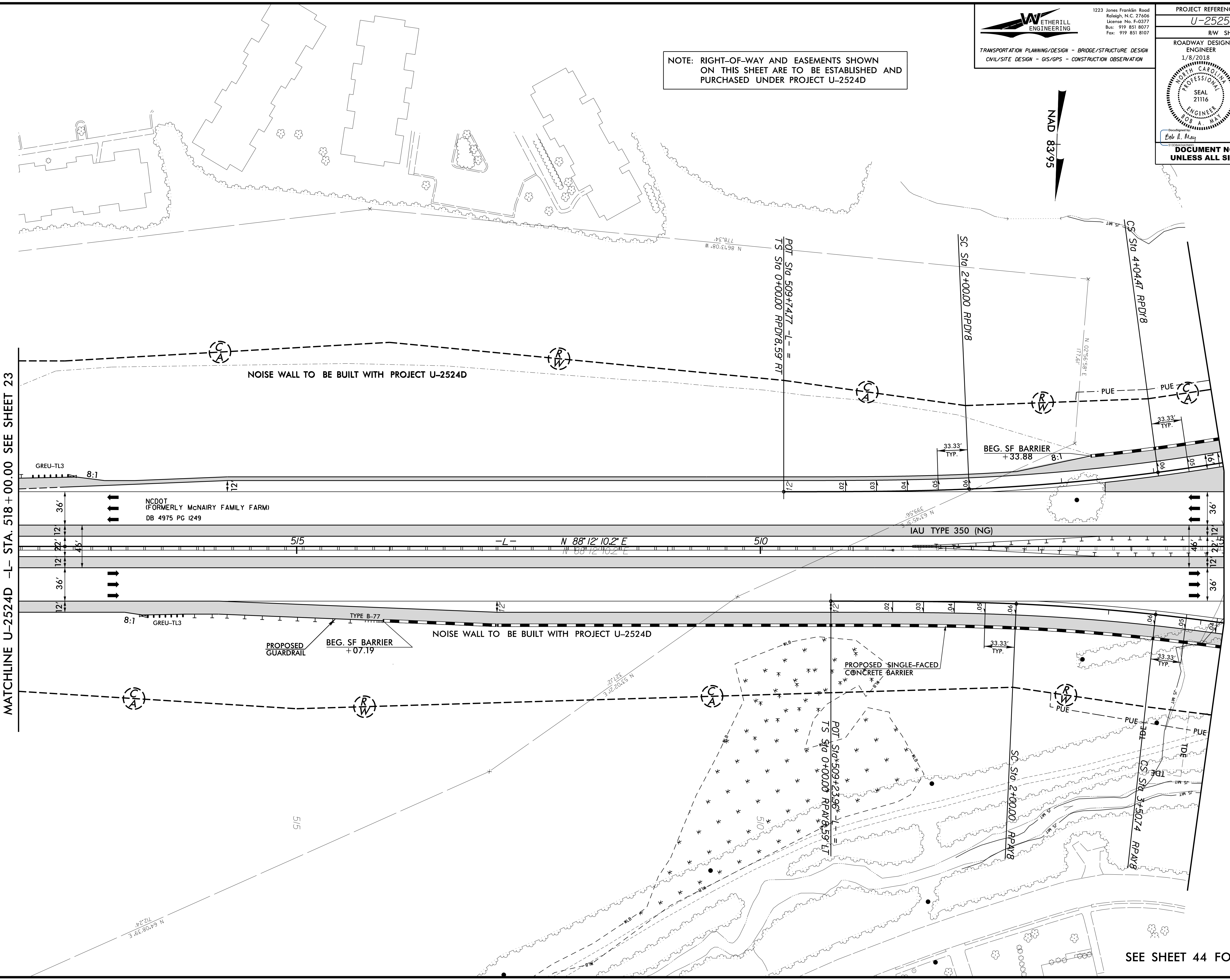
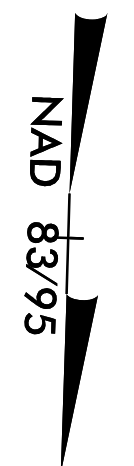
8.17/99

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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. U-2525C	SHEET NO. 24
Roadway Design Engineer 1/8/2018	Hydraulics Engineer 1/10/2018
Professional Engineer Seal 21116 Bob A. May	Professional Engineer Seal 23993 Max S. Price
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

NOTE: RIGHT-OF-WAY AND EASEMENTS SHOWN ON THIS SHEET ARE TO BE ESTABLISHED AND PURCHASED UNDER PROJECT U-2524D



MATCHLINE U-2524D -L- STA. 518 + 00.00 SEE SHEET 23

MATCHLINE U-2524D -L- STA. 505 + 00.00 SEE SHEET 25

SEE SHEET 44 FOR -L- PROFILE

REVISIONS

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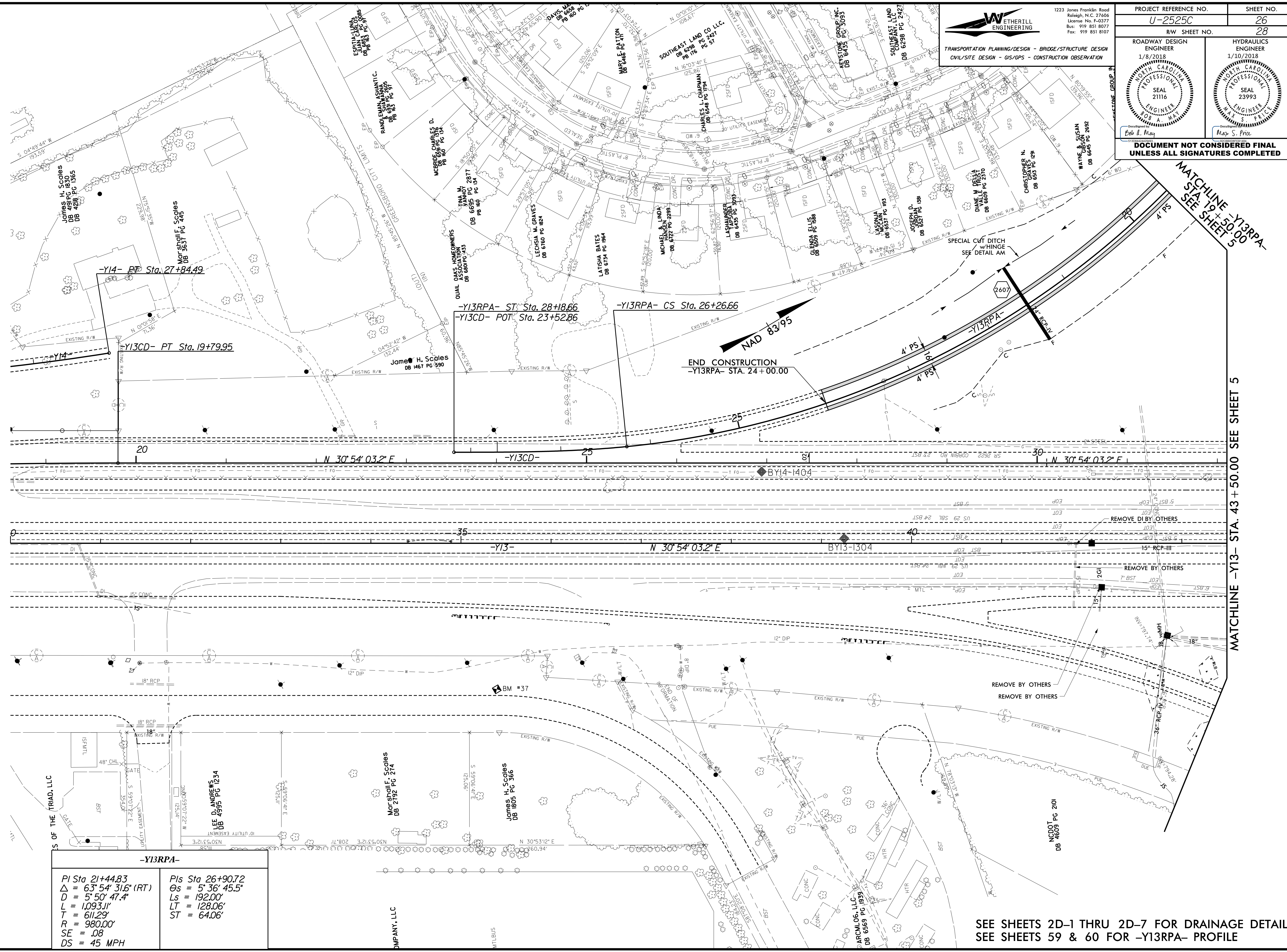
8.17.17.99

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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. U-2525C	SHEET NO. 26
RW SHEET NO. 28	
ROADWAY DESIGN ENGINEER 1/8/2018 BOB A. MAY SEAL 21116	HYDRAULICS ENGINEER 1/10/2018 MARY S. PRICE SEAL 23993
<p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>	

REVISIONS



<p>-Y13RPA-</p> <p>PI Sta 21+44.83 $\Delta = 63^\circ 54' 31.6" (RT)$ $D = 5^\circ 50' 47.4"$ $L = 1,093.11'$ $T = 611.29'$ $R = 980.00'$ $SE = .08$ $DS = 45 MPH$</p>	<p>PIs Sta 26+90.72 $\Theta_s = 5^\circ 36' 45.5"$ $L_s = 192.00'$ $LT = 128.06'$ $ST = 64.06'$</p>
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-Y4-

PI Sta 14+25.66
 $\Delta = 0^\circ 52' 58.8" (LT)$
 $D = 0' 14' 56.8"$
 $L = 354.46'$
 $T = 177.23'$
 $R = 23,000.00'$
 $SE = NC$
 $DS = 50 MPH$

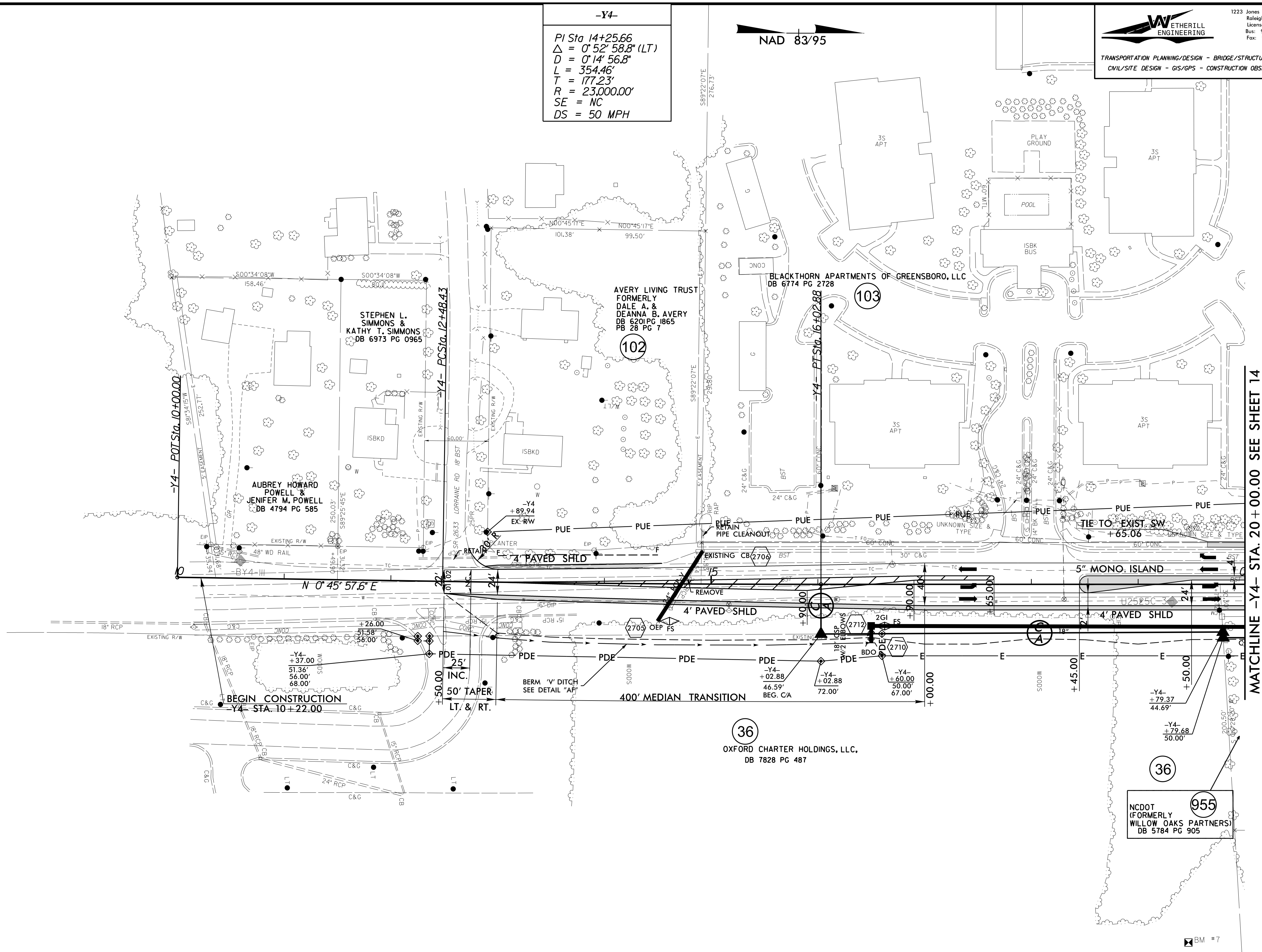
NAD 83/95

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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. U-2525C	SHEET NO. 27
RW SHEET NO. 34	
ROADWAY DESIGN ENGINEER 1/22/2018 Bob R. May	HYDRAULICS ENGINEER 1/22/2018 Max S. Price
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

REVISIONS



MATCHLINE -Y4- STA. 20 + 00.00 SEE SHEET 14

8/17/99

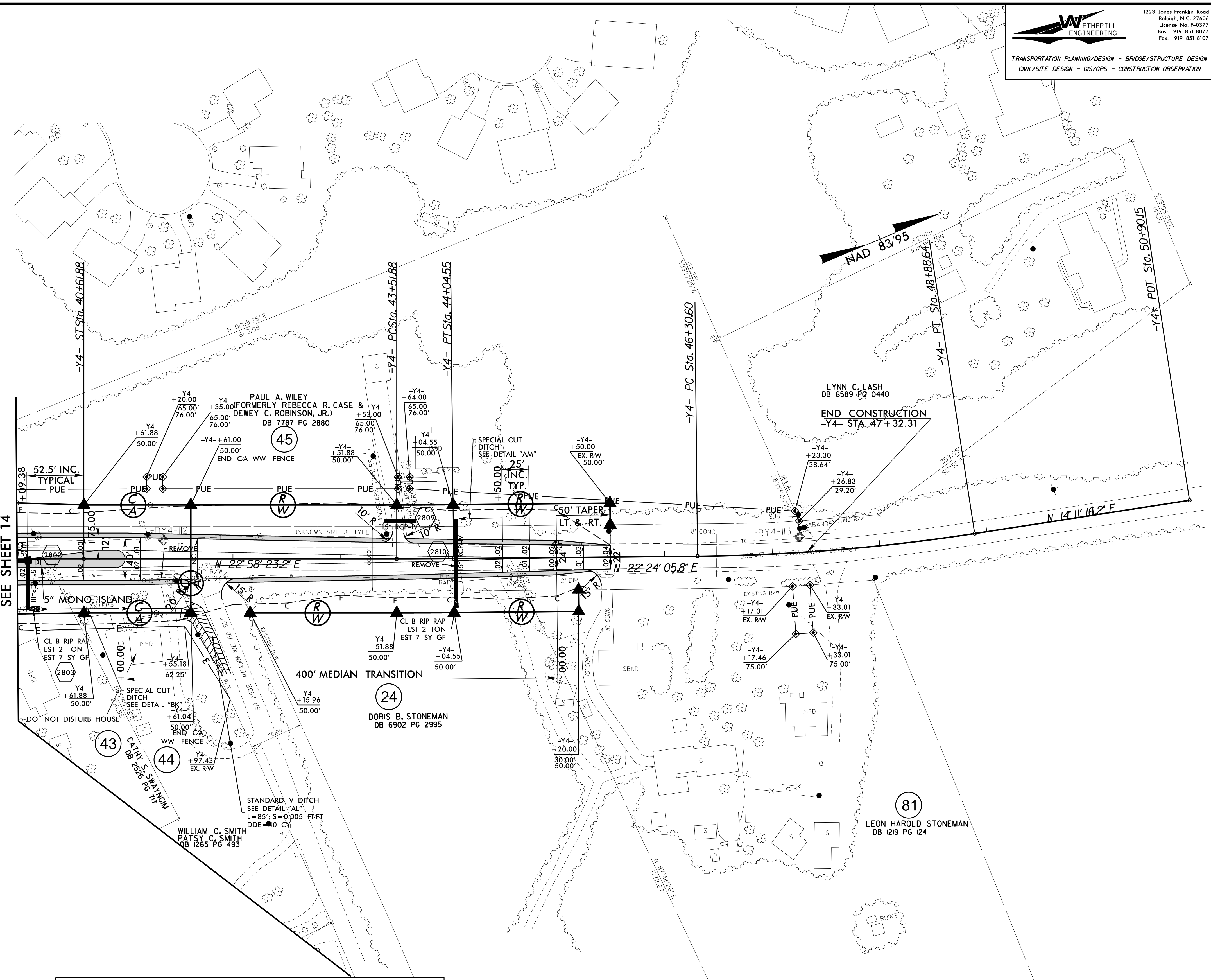
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 Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. U-2525C	SHEET NO. 28
RW SHEET NO. 35	
ROADWAY DESIGN ENGINEER 1/8/2018 BOB A. MAY SEAL 21116 ENGINEER	HYDRAULICS ENGINEER 1/10/2018 MARY S. PRICE SEAL 23993 ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

REVISIONS

MATCHLINE -Y4- STA. 40+00.00
SEE SHEET 14



-Y4-		
PI Sta 39+21.93 Gs = 4° 59' 33.3" Ls = 210.00' LT = 140.06' ST = 70.05'	PI Sta 43+78.21 Δ = 0° 34' 17.4" (LT) D = 1° 05' 06.5" L = 52.67' T = 26.33' R = 5,280.00' SE = NC DS = 50 MPH	PI Sta 47+59.84 Δ = 8° 12' 49.6" (LT) D = 3° 10' 59.2" L = 258.04' T = 129.24' R = 1,800.00'

SEE SHEET 2D-1 FOR DRAINAGE DETAILS
SEE SHEET 50 FOR -Y4- PROFILE

12/6/2017 U:\2525c_rdy_psh_28.dgn
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8.17.17.99

-Y5-	-Y5A-
PI Sta 27+08.79	PI Sta 29+61.28
$\Delta = 18^{\circ} 50' 52.1''$ (LT)	$\Delta = 1^{\circ} 26' 57.7''$ (LT)
D = 6' 21' 58.3"	D = 1' 05' 06.5"
L = 296.06'	L = 133.56'
T = 149.38'	T = 66.79'
R = 900.00'	R = 5,280.00'
SE = .04	SE = EXIST.
DS = 45 MPH	

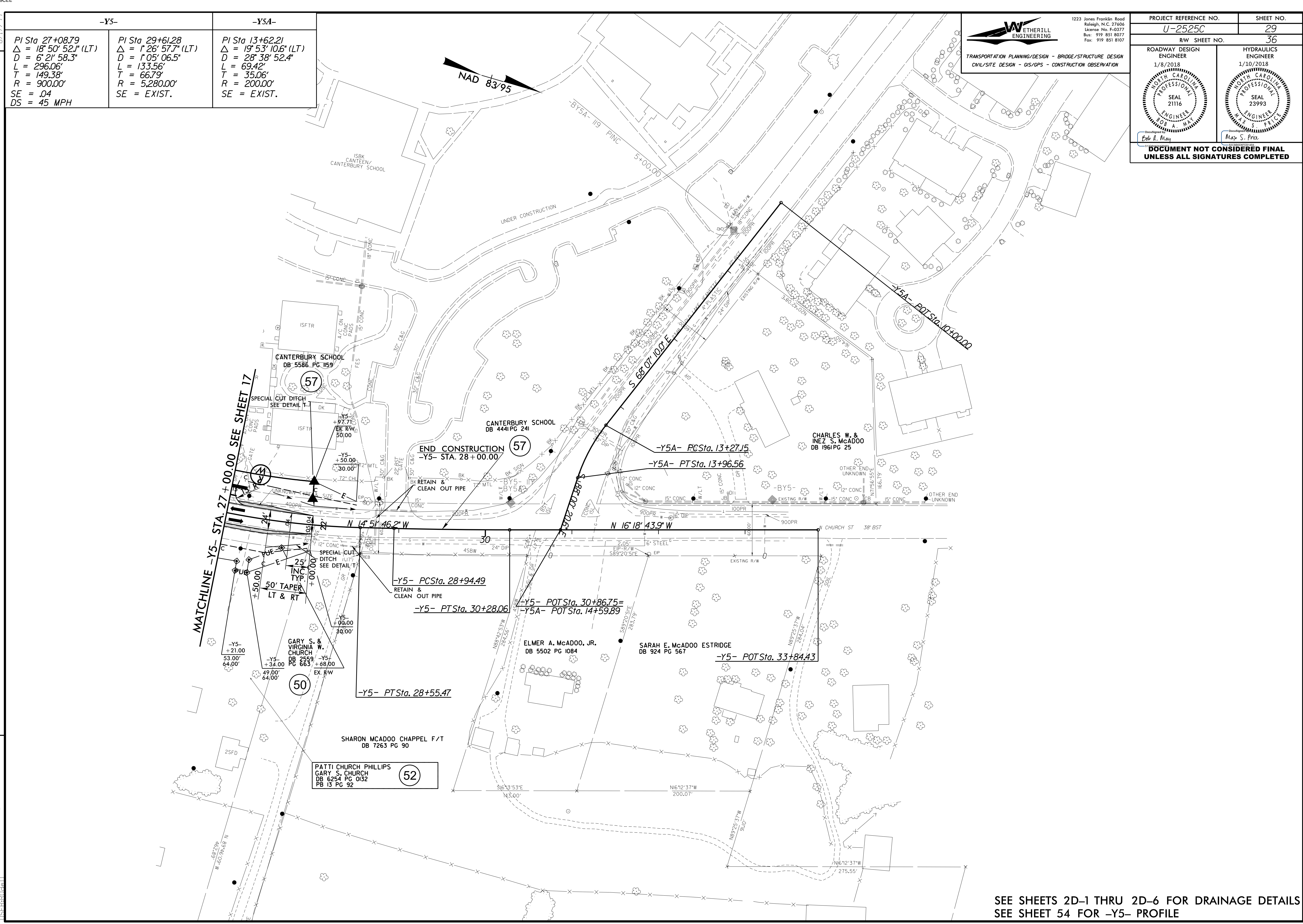
-Y5A-
PI Sta 13+62.21
$\Delta = 19^{\circ} 53' 10.6''$ (LT)
D = 28' 38' 52.4"
L = 69.42'
T = 35.06'
R = 200.00'
SE = EXIST.

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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. U-2525C	SHEET NO. 29
RW SHEET NO. 36	
ROADWAY DESIGN ENGINEER 1/8/2018 Edw. A. May	HYDRAULICS ENGINEER 1/10/2018 Max S. Price
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REVISIONS



SEE SHEETS 2D-1 THRU 2D-6 FOR DRAINAGE DETAILS
SEE SHEET 54 FOR -Y5- PROFILE

12/6/2017 12:52:56...rdy...psh...29.dgn

8/17/99

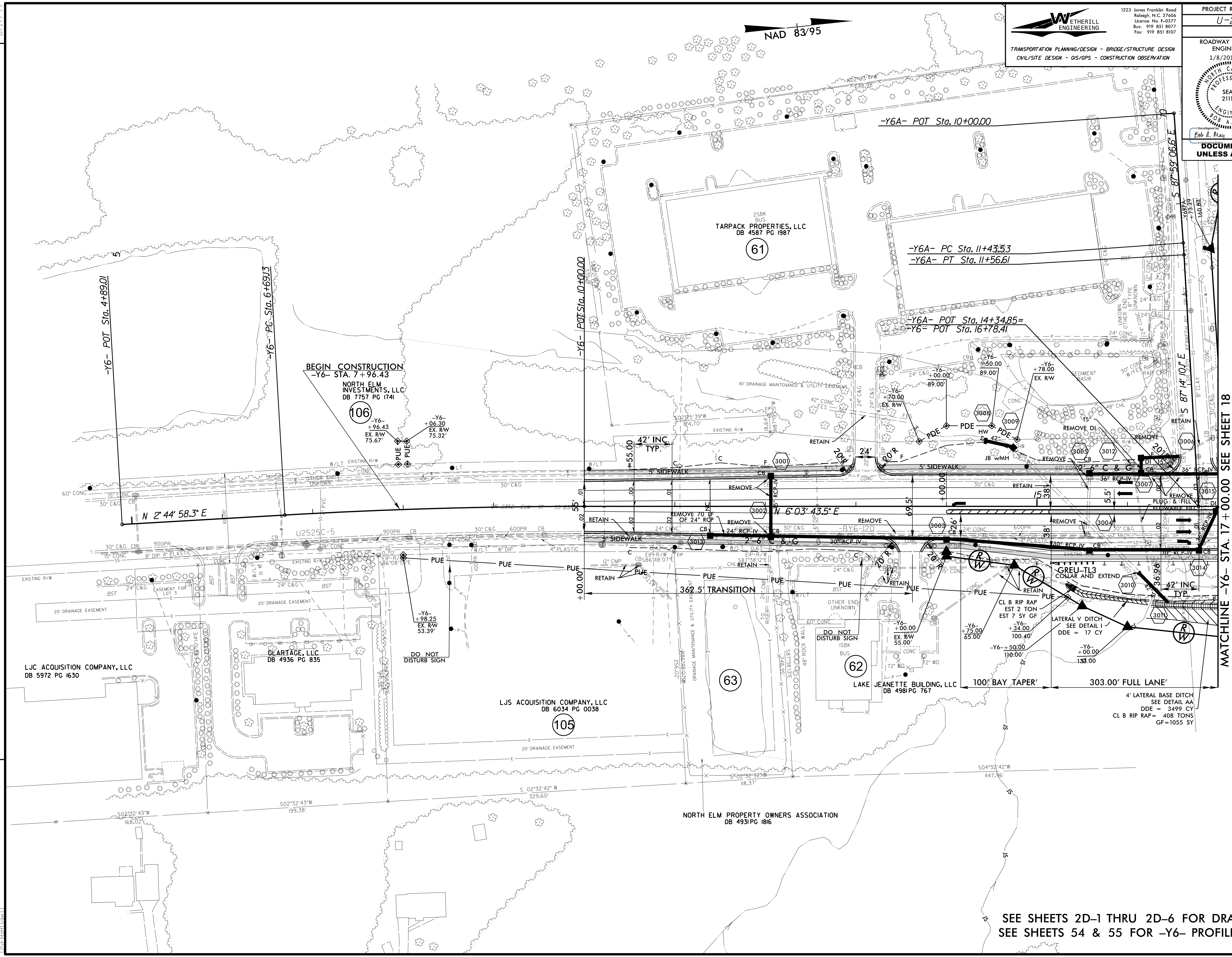
NAD 83/95

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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. U-2525C	SHEET NO. 30
RW SHEET NO. 37	
ROADWAY DESIGN ENGINEER 1/8/2018	HYDRAULICS ENGINEER 1/10/2018
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

REVISIONS



MATCHLINE -Y6- STA. 17+00.00 SEE SHEET 18

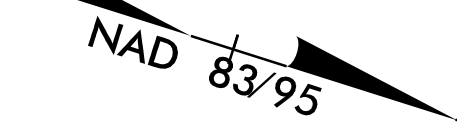
SEE SHEETS 2D-1 THRU 2D-6 FOR DRAINAGE DETAILS
SEE SHEETS 54 & 55 FOR -Y6- PROFILE

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 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. U-2525C	SHEET NO. 31
RW SHEET NO. 38	
ROADWAY DESIGN ENGINEER 1/22/2018	HYDRAULICS ENGINEER 1/22/2018
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REVISIONS

MATCHLINE -Y6- STA. 32 + 00.00 SEE SHEET 18

300' R +10.00

(976)

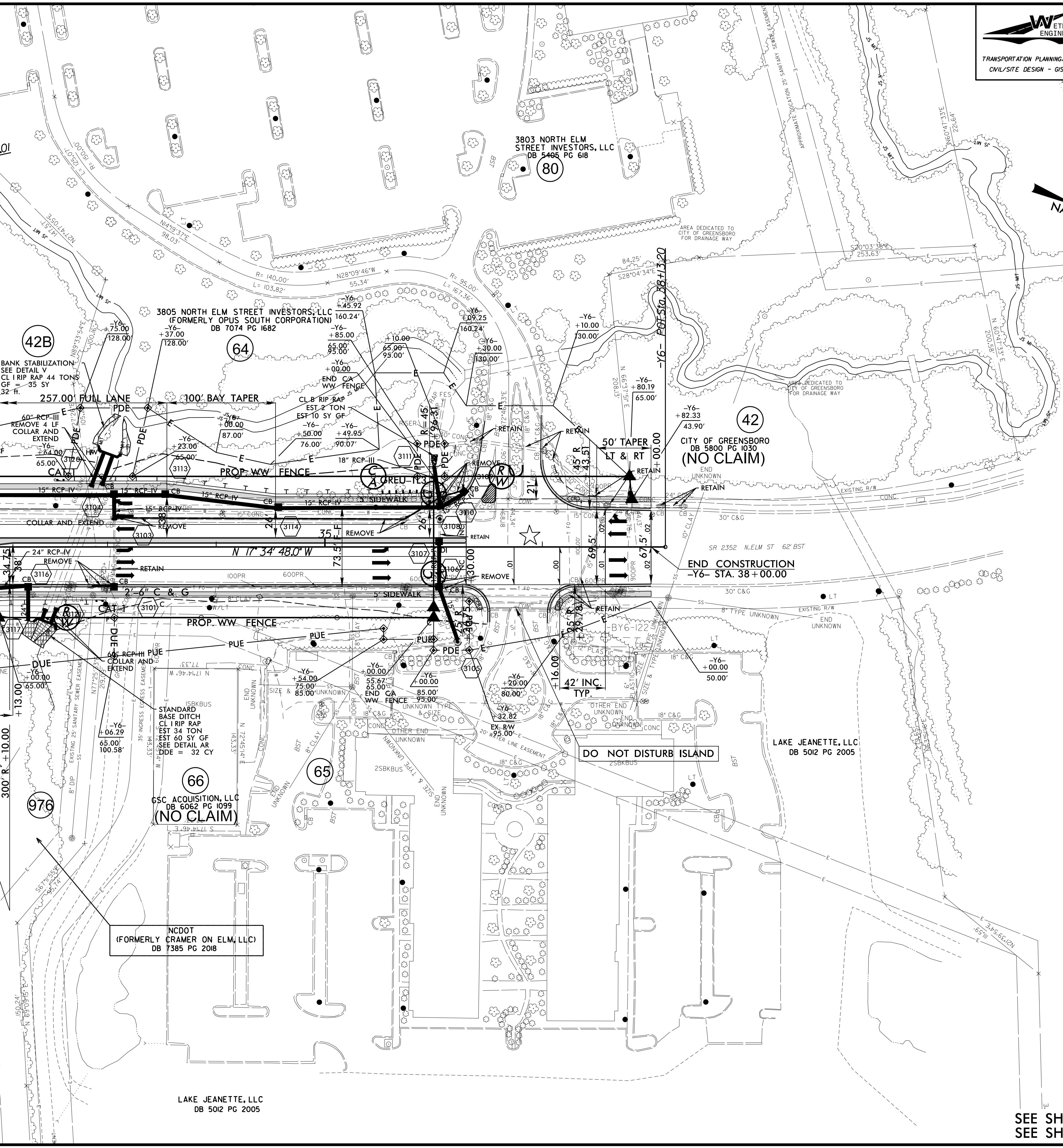
(42B)

(64)

(65)

(66)

(42)



NCDOT
 (FORMERLY CRAMER ON ELM, LLC)
 DB 7385 PG 2018

DO NOT DISTURB ISLAND

END CONSTRUCTION
 -Y6- STA. 38 + 00.00

LAKE JEANETTE, LLC
 DB 5012 PG 2005

GSC ACQUISITION, LLC
 DB 6062 PG 1099
 (NO CLAIM)

LAKE JEANETTE, LLC
 DB 5012 PG 2005

★ REVISED SIGNAL

SEE SHEETS 2D-1 THRU 2D-6 FOR DRAINAGE DETAILS
 SEE SHEET 55 FOR -Y6- PROFILE

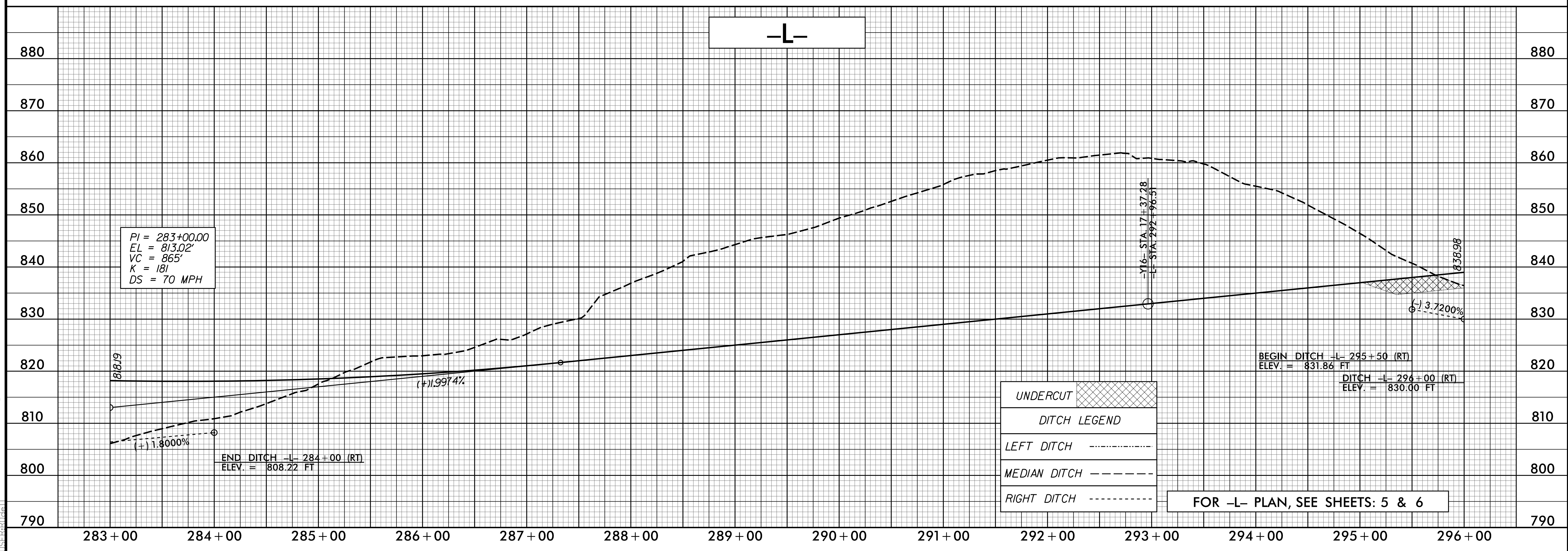
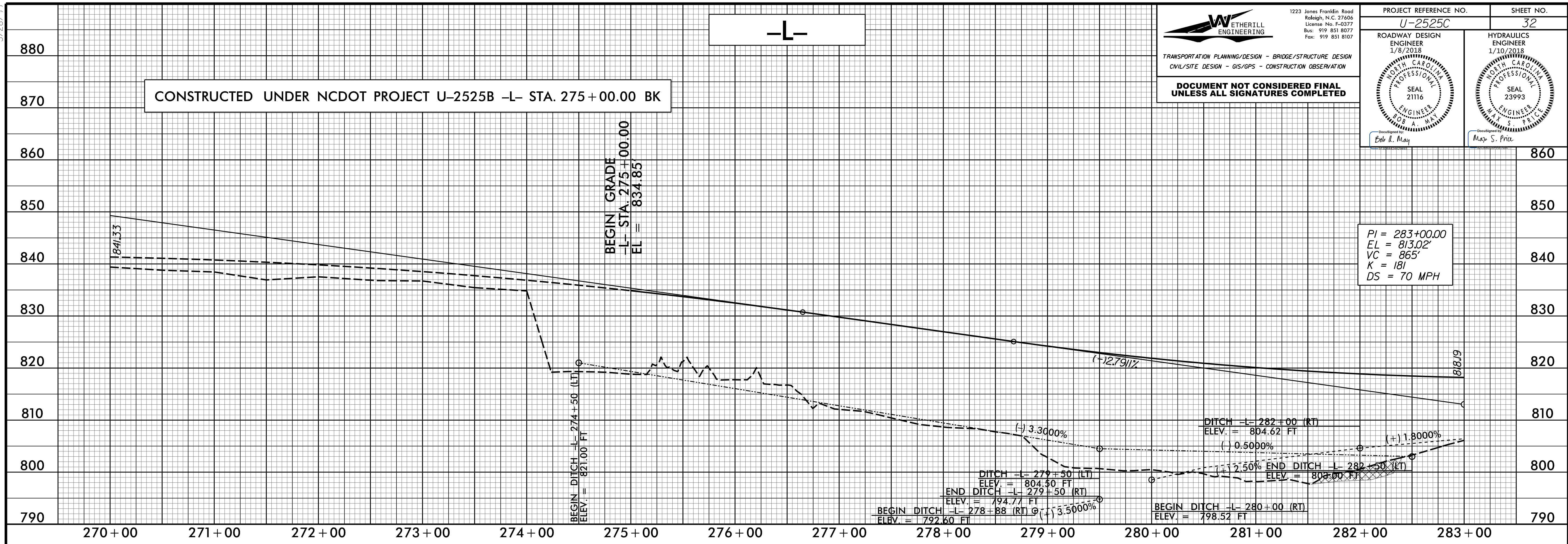
5/28/2017

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PROJECT REFERENCE NO. U-2525C	SHEET NO. 32
ROADWAY DESIGN ENGINEER 1/8/2018 SEAL 21116 E. H. MAY	HYDRAULICS ENGINEER 1/10/2018 SEAL 23993 MAY S. PRA



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5/25/2017

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BM#1
-BL- STA. 10+01, 203' LT., ELEV. 855.74'
RR SPIKE SET IN 14" SEWEEET GUM

-L-

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CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

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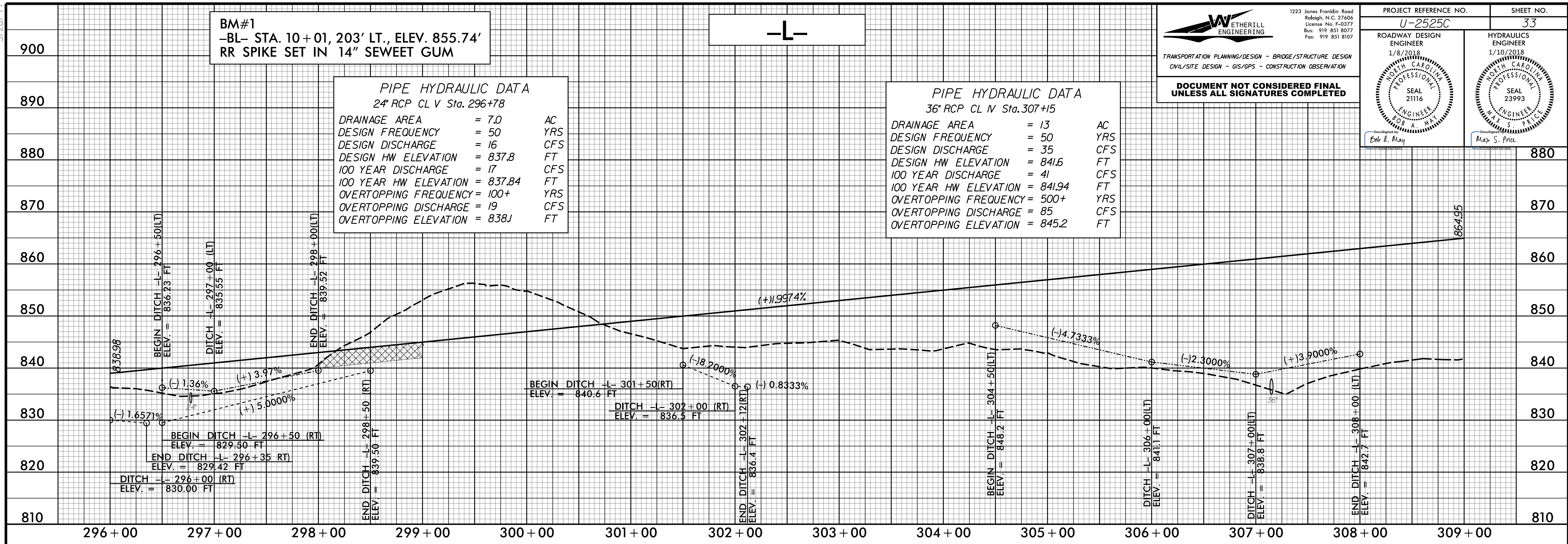
PROJECT REFERENCE NO. U-2525C	SHEET NO. 33
ROADWAY DESIGN ENGINEER 1/8/2018 SEAL 21116 E. L. May	HYDRAULICS ENGINEER 1/10/2018 SEAL 23993 M. S. Price

PIPE HYDRAULIC DATA
24" RCP CL V Sta. 296+78

DRAINAGE AREA	= 7.0	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 16	CFS
DESIGN HW ELEVATION	= 837.8	FT
100 YEAR DISCHARGE	= 17	CFS
100 YEAR HW ELEVATION	= 837.84	FT
OVERTOPPING FREQUENCY	= 100+	YRS
OVERTOPPING DISCHARGE	= 19	CFS
OVERTOPPING ELEVATION	= 838J	FT

PIPE HYDRAULIC DATA
36" RCP CL N Sta. 307+15

DRAINAGE AREA	= 13	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 35	CFS
DESIGN HW ELEVATION	= 841.6	FT
100 YEAR DISCHARGE	= 41	CFS
100 YEAR HW ELEVATION	= 841.94	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 85	CFS
OVERTOPPING ELEVATION	= 845.2	FT



BM#2
-BL- STA. 27+33, 304' RT., ELEV. 817.88'
RR SPIKE SET IN 18" WHITE OAK

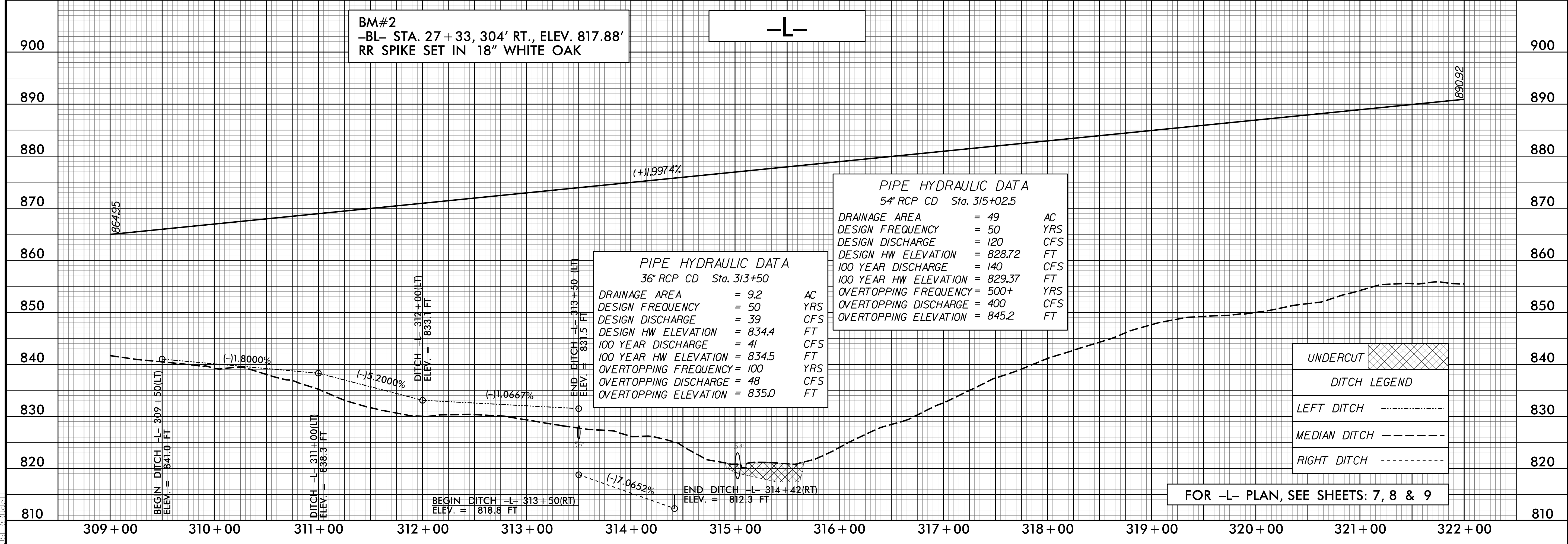
-L-

PIPE HYDRAULIC DATA
54" RCP CD Sta. 315+02.5

DRAINAGE AREA	= 49	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 120	CFS
DESIGN HW ELEVATION	= 828.72	FT
100 YEAR DISCHARGE	= 140	CFS
100 YEAR HW ELEVATION	= 829.37	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 400	CFS
OVERTOPPING ELEVATION	= 845.2	FT

PIPE HYDRAULIC DATA
36" RCP CD Sta. 313+50

DRAINAGE AREA	= 9.2	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 39	CFS
DESIGN HW ELEVATION	= 834.4	FT
100 YEAR DISCHARGE	= 41	CFS
100 YEAR HW ELEVATION	= 834.5	FT
OVERTOPPING FREQUENCY	= 100	YRS
OVERTOPPING DISCHARGE	= 48	CFS
OVERTOPPING ELEVATION	= 835.0	FT



UNDERCUT

DITCH LEGEND

LEFT DITCH

MEDIAN DITCH

RIGHT DITCH

FOR -L- PLAN, SEE SHEETS: 7, 8 & 9

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 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

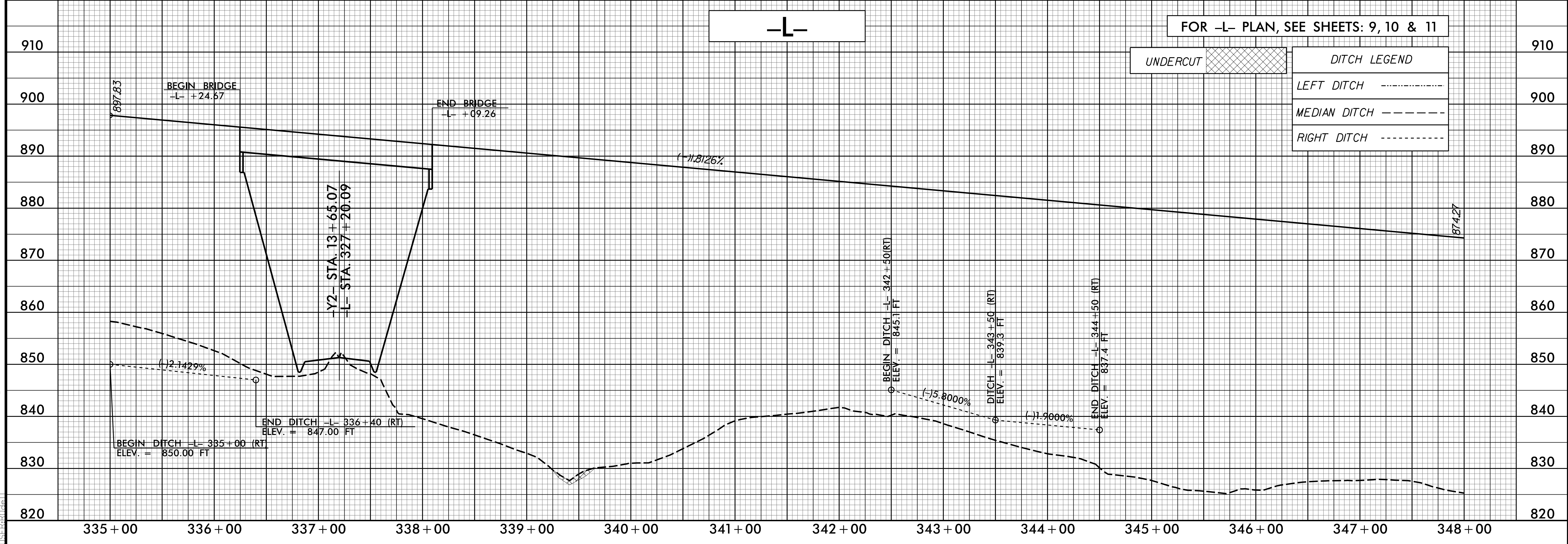
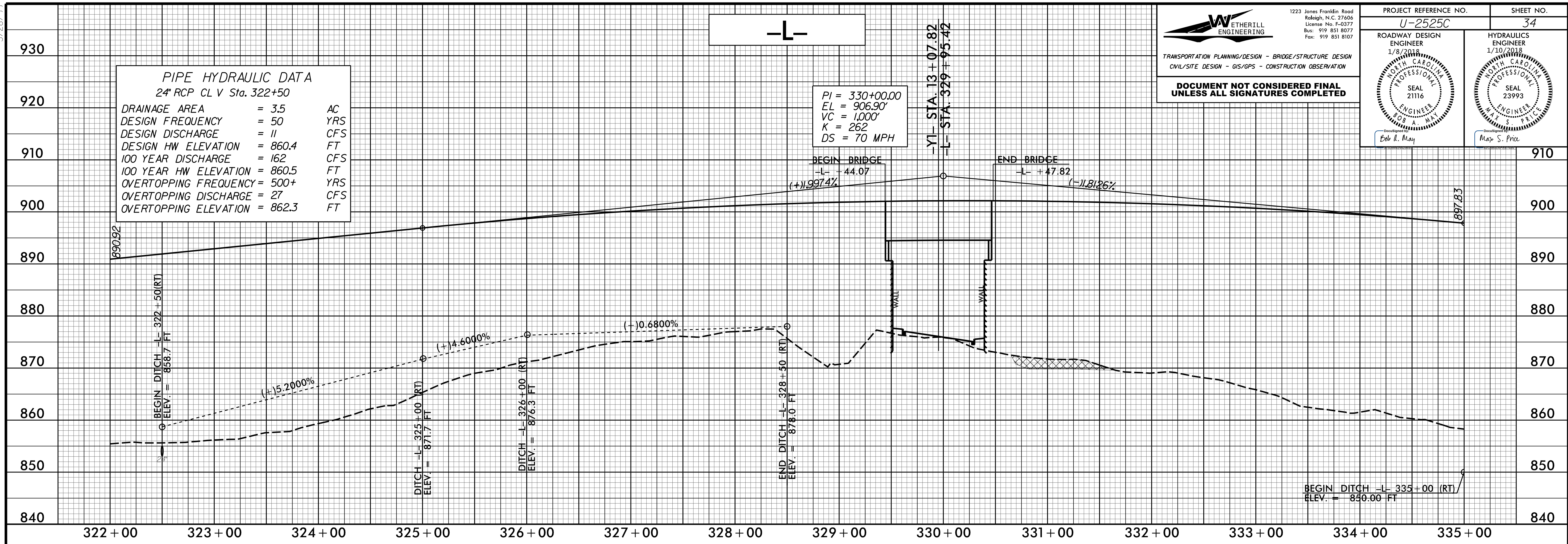
**DOCUMENT NOT CONSIDERED FINAL
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PROJECT REFERENCE NO. U-2525C	SHEET NO. 34
ROADWAY DESIGN ENGINEER 1/8/2018 SEAL 21116 BOB A. MAY	HYDRAULICS ENGINEER 1/10/2018 SEAL 23993 MAX S. PRICE

PIPE HYDRAULIC DATA
 24" RCP CL V Sta. 322+50

DRAINAGE AREA	= 3.5	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 11	CFS
DESIGN HW ELEVATION	= 860.4	FT
100 YEAR DISCHARGE	= 162	CFS
100 YEAR HW ELEVATION	= 860.5	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 27	CFS
OVERTOPPING ELEVATION	= 862.3	FT

PI = 330+00.00
 EL = 906.90'
 VC = 1,000'
 K = 262
 DS = 70 MPH



FOR -L- PLAN, SEE SHEETS: 9, 10 & 11

UNDERCUT [Symbol]

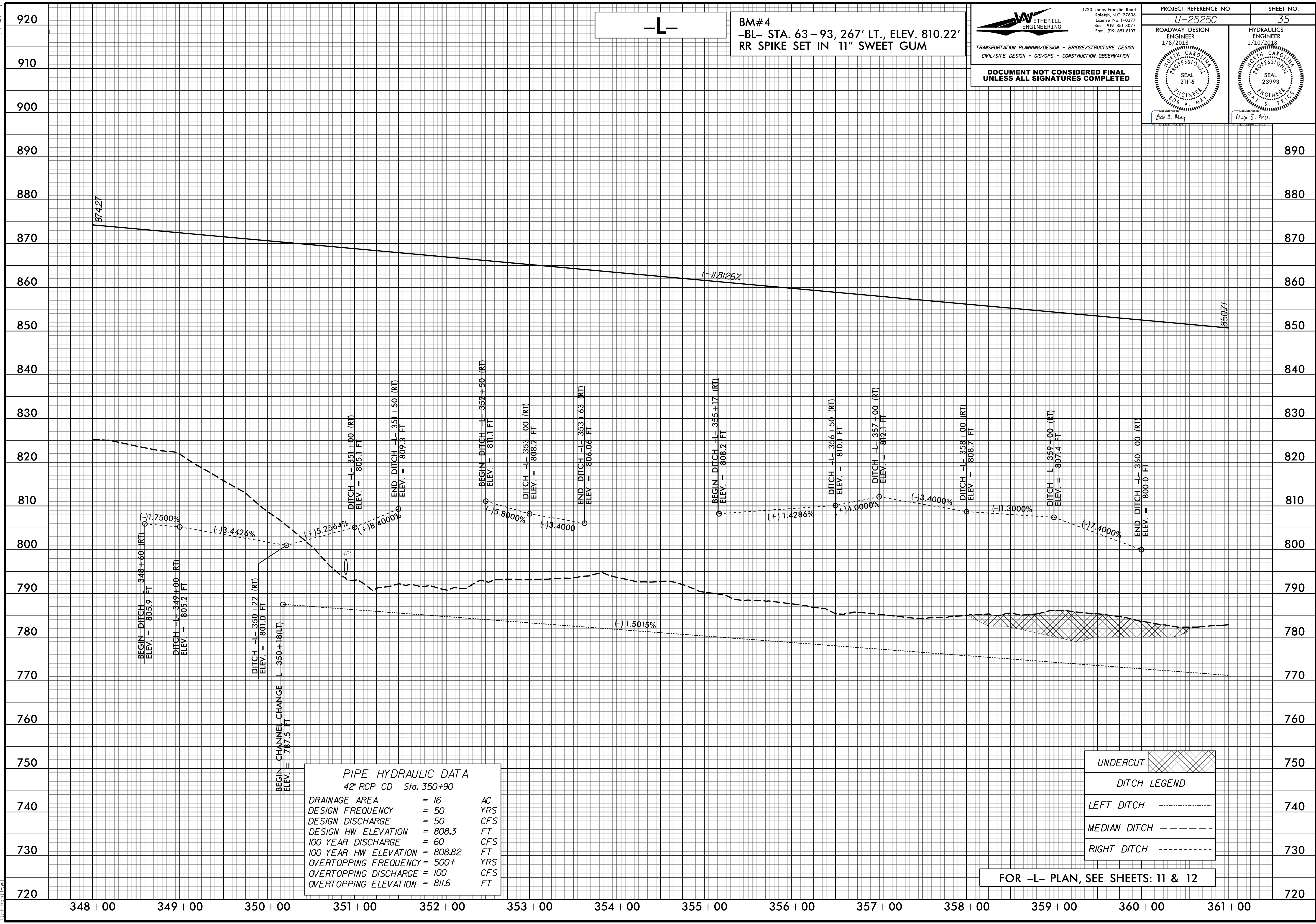
DITCH LEGEND

- LEFT DITCH [Symbol]
- MEDIAN DITCH [Symbol]
- RIGHT DITCH [Symbol]

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5/14/99

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-L-

BM#4
 -BL- STA. 63+93, 267' LT., ELEV. 810.22'
 RR SPIKE SET IN 11" SWEET GUM

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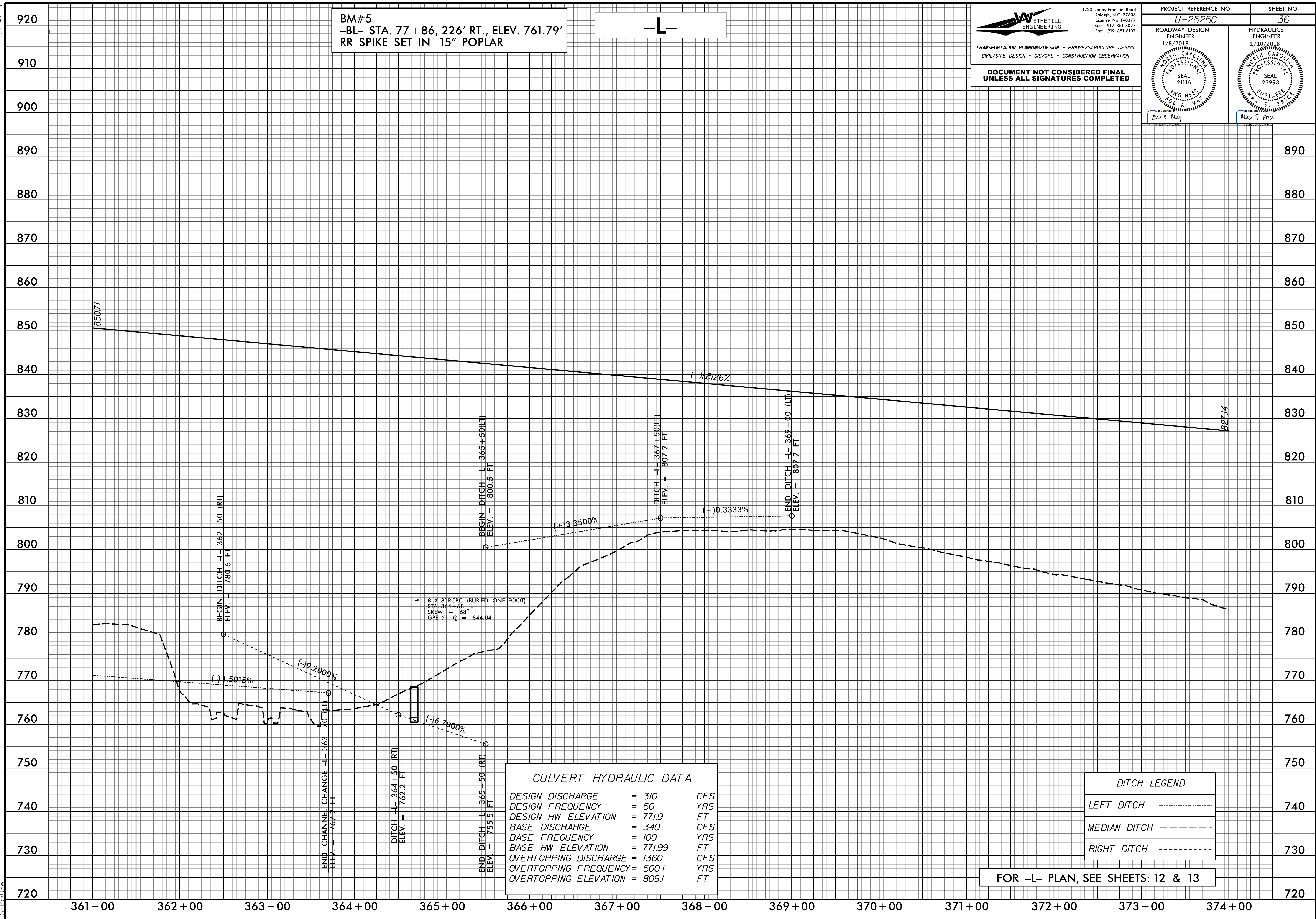
PROJECT REFERENCE NO. U-2525C	SHEET NO. 35
ROADWAY DESIGN ENGINEER 1/8/2018 SEAL 21116 BOB L. MAY	HYDRAULICS ENGINEER 1/10/2018 SEAL 23993 MAX S. PRUE

PIPE HYDRAULIC DATA	
42" RCP CD Sta. 350+90	
DRAINAGE AREA	= 16 AC
DESIGN FREQUENCY	= 50 YRS
DESIGN DISCHARGE	= 50 CFS
DESIGN HW ELEVATION	= 808.3 FT
100 YEAR DISCHARGE	= 60 CFS
100 YEAR HW ELEVATION	= 808.82 FT
OVERTOPPING FREQUENCY	= 500+ YRS
OVERTOPPING DISCHARGE	= 100 CFS
OVERTOPPING ELEVATION	= 811.6 FT

UNDERCUT	
DITCH LEGEND	
LEFT DITCH	
MEDIAN DITCH	
RIGHT DITCH	

FOR -L- PLAN, SEE SHEETS: 11 & 12

5/14/99



BM#5
 -BL- STA. 77 + 86, 226' RT., ELEV. 761.79'
 RR SPIKE SET IN 15" POPLAR

-L-

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 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

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PROJECT REFERENCE NO. U-2525C	SHEET NO. 36
ROADWAY DESIGN ENGINEER 1/8/2018	HYDRAULICS ENGINEER 1/10/2018
PROFESSIONAL SEAL 21116 BOB A. MAY	PROFESSIONAL SEAL 23993 MAX S. PRICE
<i>Bob A. May</i>	<i>Max S. Price</i>

CULVERT HYDRAULIC DATA

DESIGN DISCHARGE	= 310	CFS
DESIGN FREQUENCY	= 50	YRS
DESIGN HW ELEVATION	= 771.9	FT
BASE DISCHARGE	= 340	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 771.99	FT
OVERTOPPING DISCHARGE	= 1360	CFS
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING ELEVATION	= 809.1	FT

DITCH LEGEND

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

FOR -L- PLAN, SEE SHEETS: 12 & 13

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5/25/2017

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BM#6
-BL- STA. 92+17, 254' RT., ELEV. 765.66'
RR SPIKE SET IN 11" OAK

-L-

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PROJECT REFERENCE NO. U-2525C	SHEET NO. 37
ROADWAY DESIGN ENGINEER 1/8/2018 SEAL 21116 E. H. MAY	HYDRAULICS ENGINEER 1/10/2018 SEAL 23993 MAY S. PRILE

CULVERT HYDRAULIC DATA

DESIGN DISCHARGE	= 230	CFS
DESIGN FREQUENCY	= 50	YRS
DESIGN HW ELEVATION	= 772.3	FT
BASE DISCHARGE	= 260	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 772.85	FT
OVERTOPPING DISCHARGE	= 810	CFS
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING ELEVATION	= 802.0	FT

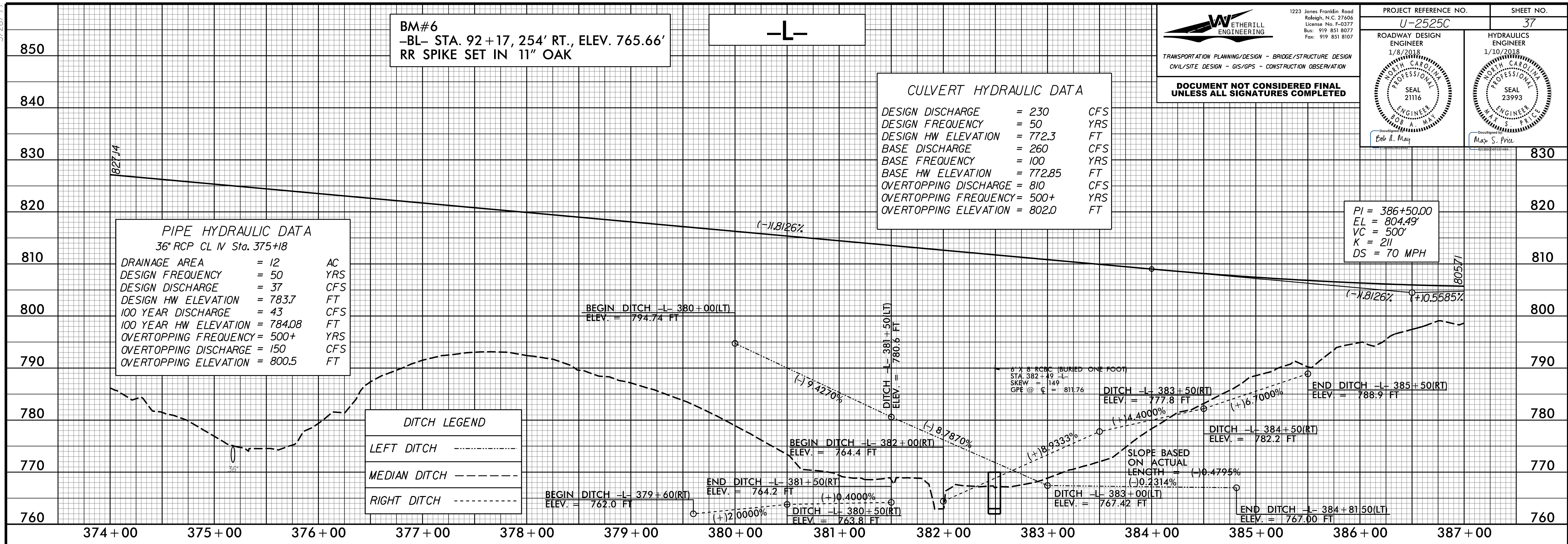
PIPE HYDRAULIC DATA
36" RCP CL IV Sta. 375+18

DRAINAGE AREA	= 12	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 37	CFS
DESIGN HW ELEVATION	= 783.7	FT
100 YEAR DISCHARGE	= 43	CFS
100 YEAR HW ELEVATION	= 784.08	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 150	CFS
OVERTOPPING ELEVATION	= 800.5	FT

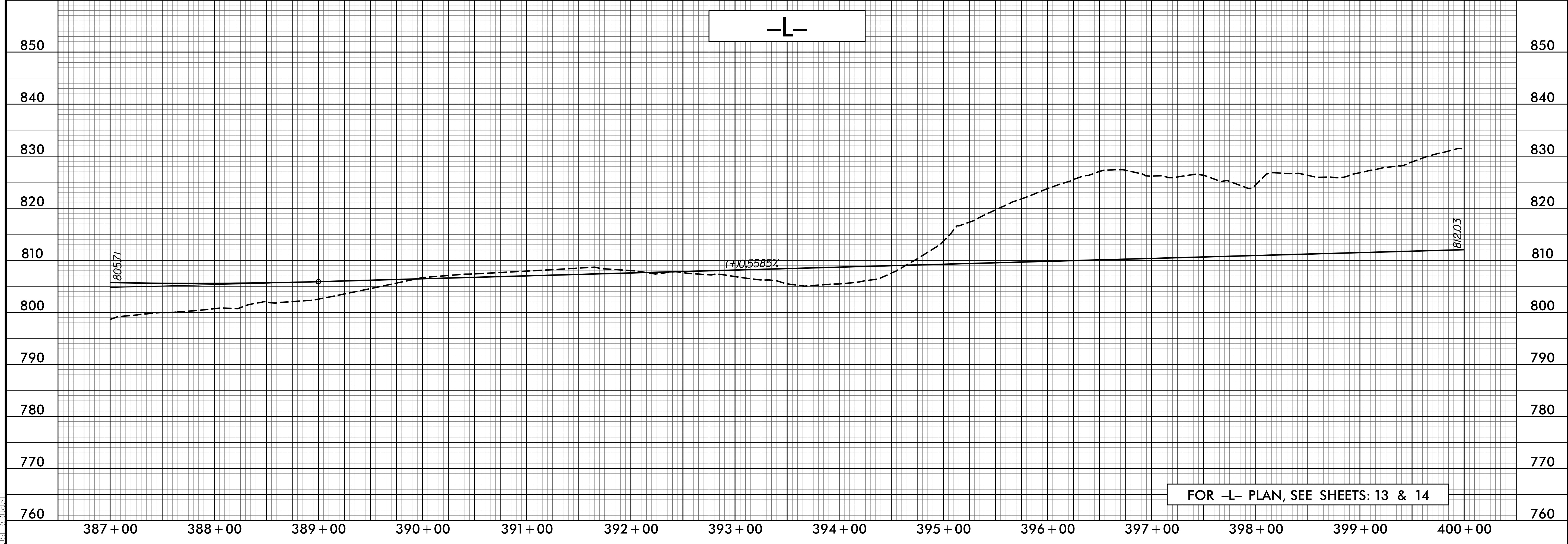
DITCH LEGEND

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

PI = 386+50.00
EL = 804.49'
VC = 500'
K = 211
DS = 70 MPH



-L-



FOR -L- PLAN, SEE SHEETS: 13 & 14

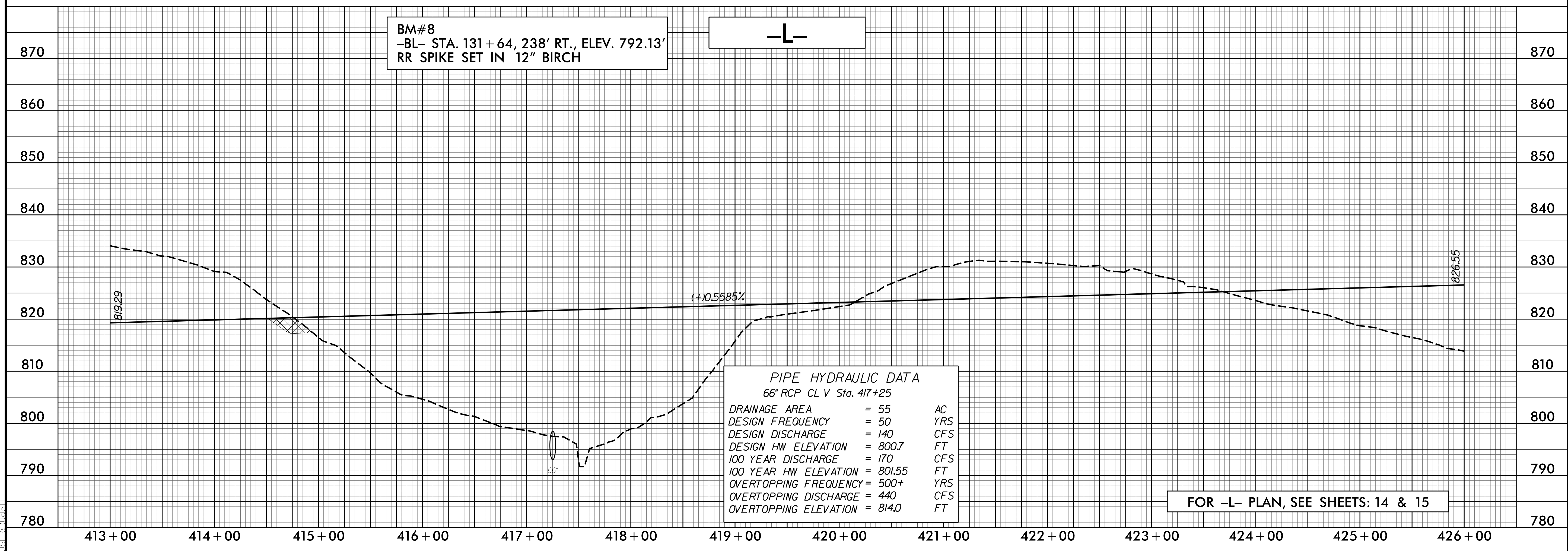
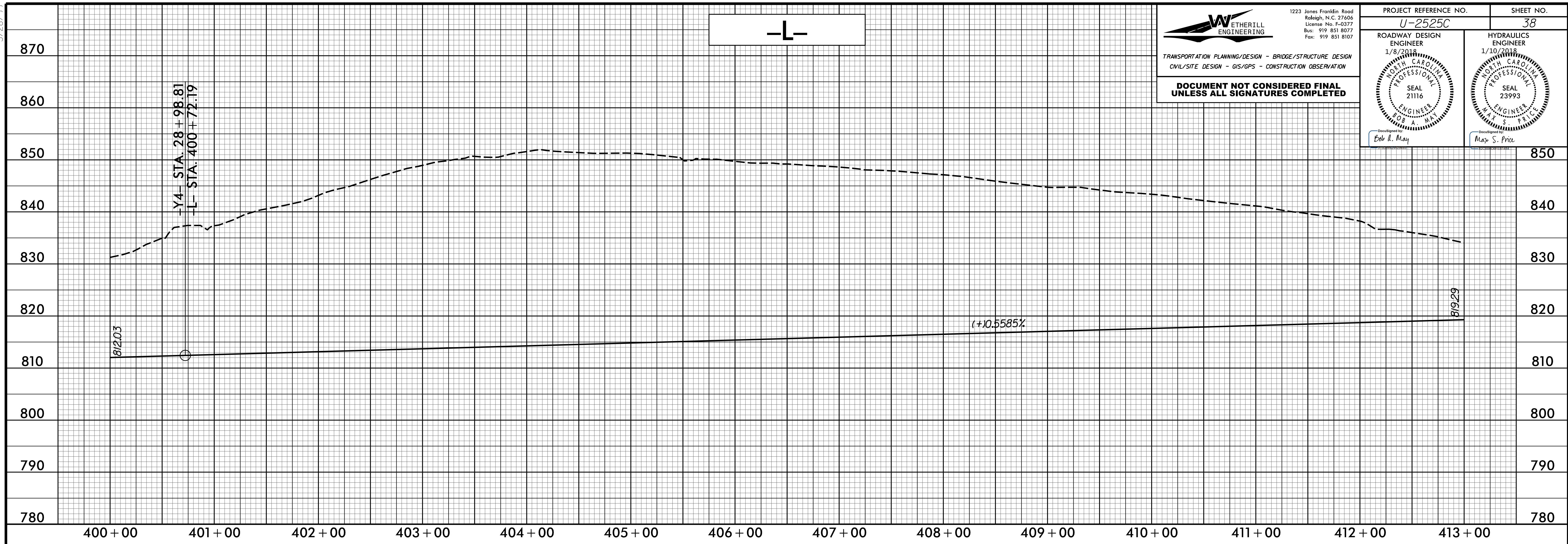
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PROJECT REFERENCE NO. U-2525C	SHEET NO. 38
ROADWAY DESIGN ENGINEER 1/8/2018 SEAL 21116 E. A. MAY	HYDRAULICS ENGINEER 1/10/2018 SEAL 23993 MAY S. PRILL



PIPE HYDRAULIC DATA
 66" RCP CL V Sta. 417+25

DRAINAGE AREA	= 55	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 140	CFS
DESIGN HW ELEVATION	= 800.7	FT
100 YEAR DISCHARGE	= 170	CFS
100 YEAR HW ELEVATION	= 801.55	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 440	CFS
OVERTOPPING ELEVATION	= 814.0	FT

FOR -L- PLAN, SEE SHEETS: 14 & 15

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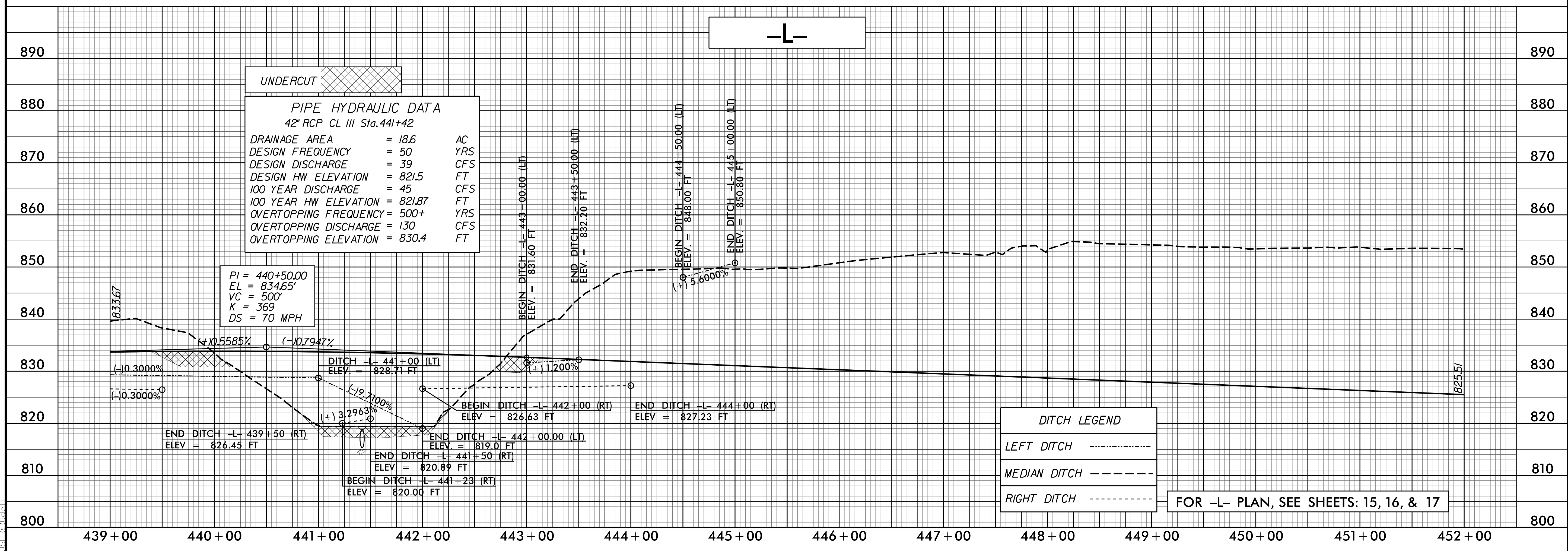
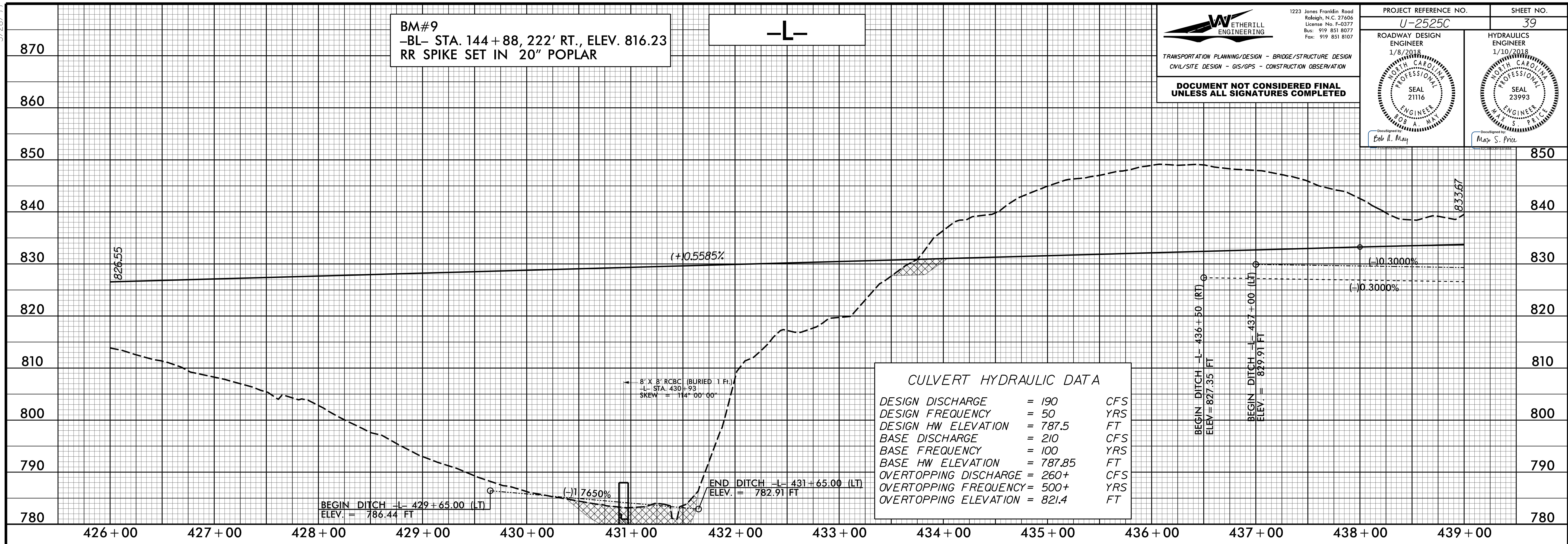
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PROJECT REFERENCE NO. U-2525C	SHEET NO. 39
ROADWAY DESIGN ENGINEER 1/8/2018 SEAL 21116 E. R. MAY	HYDRAULICS ENGINEER 1/10/2018 SEAL 23993 M. S. PRICE



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PROJECT REFERENCE NO. U-2525C	SHEET NO. 40
ROADWAY DESIGN ENGINEER 1/8/2018 SEAL 21116 BOB A. MAY	HYDRAULICS ENGINEER 1/10/2018 SEAL 23993 MAX S. PRICE

