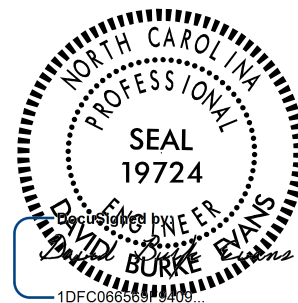
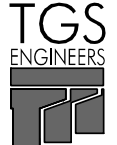
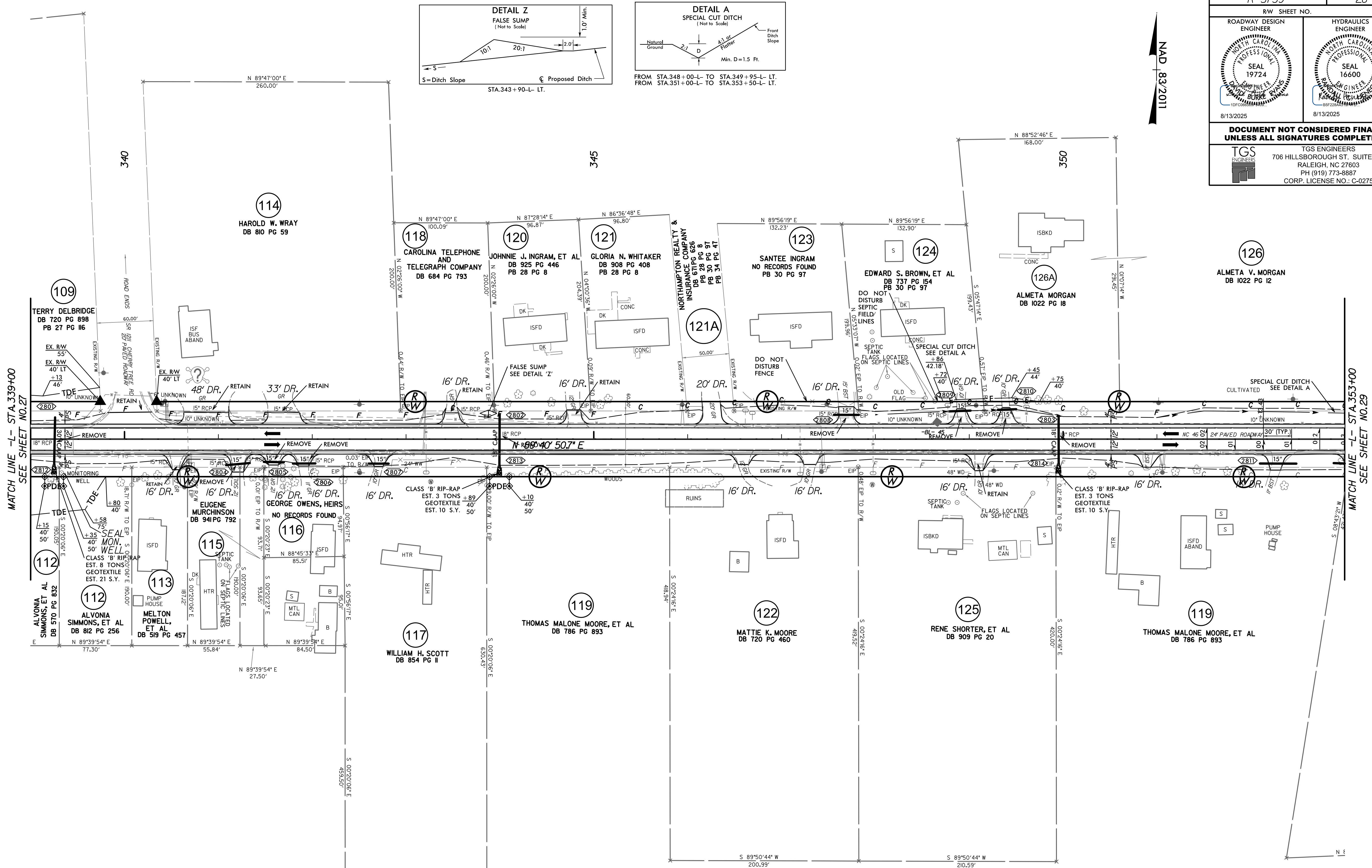
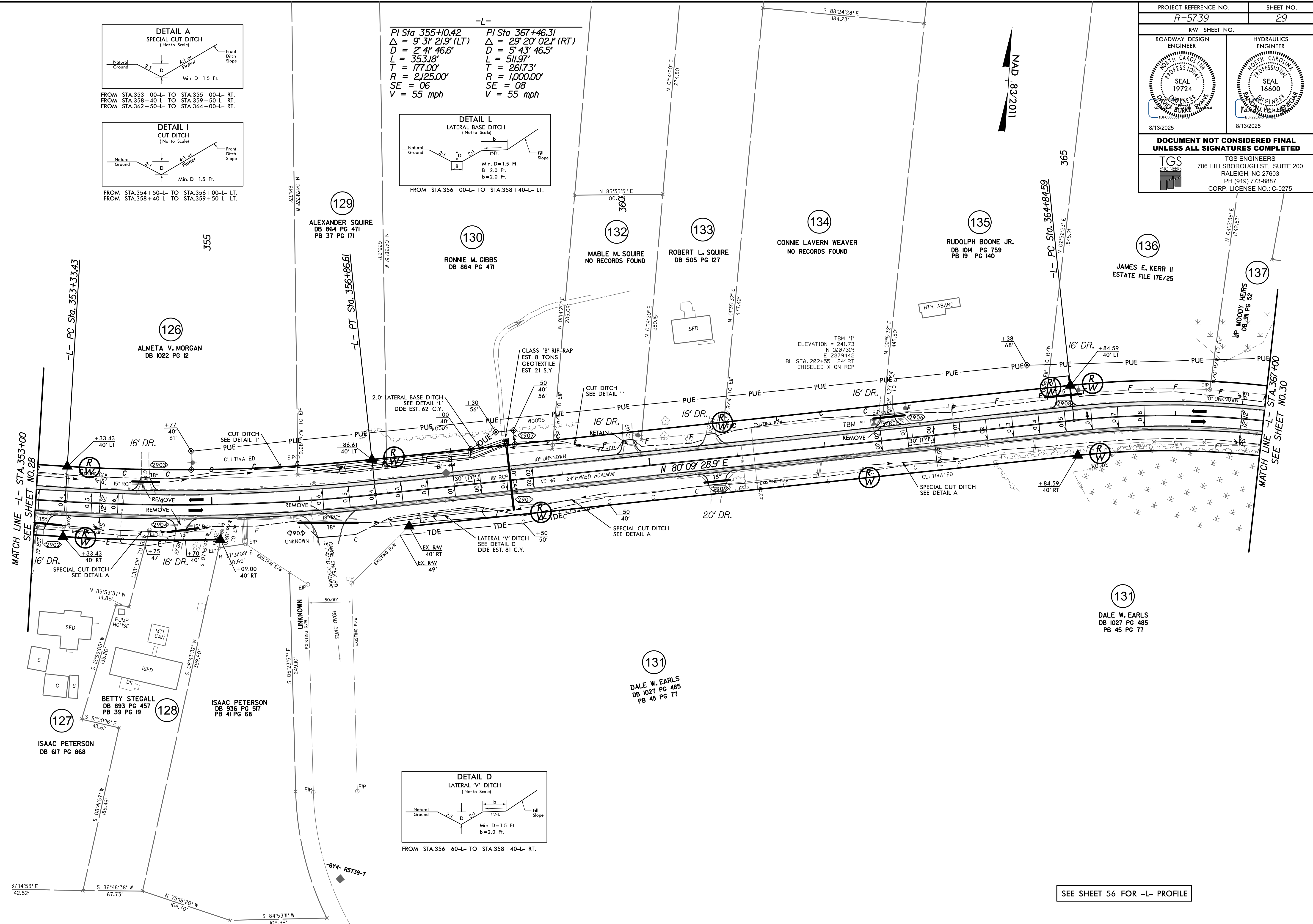
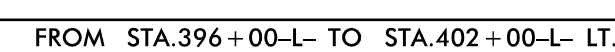
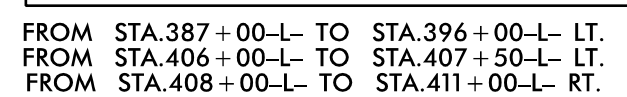


PROJECT REFERENCE NO.		SHEET NO.	
R-5739		28	
R/W SHEET NO.			
ROADWAY DESIGN ENGINEER 		HYDRAULICS ENGINEER 	
8/13/2025		8/13/2025	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
		TGS ENGINEERS 706 HILLSBOROUGH ST. SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275	



SEE SHEET 56 FOR -L- PROFILE





DETAIL 1
CUT DITCH
 (Not to Scale)

Natural Ground

2:1

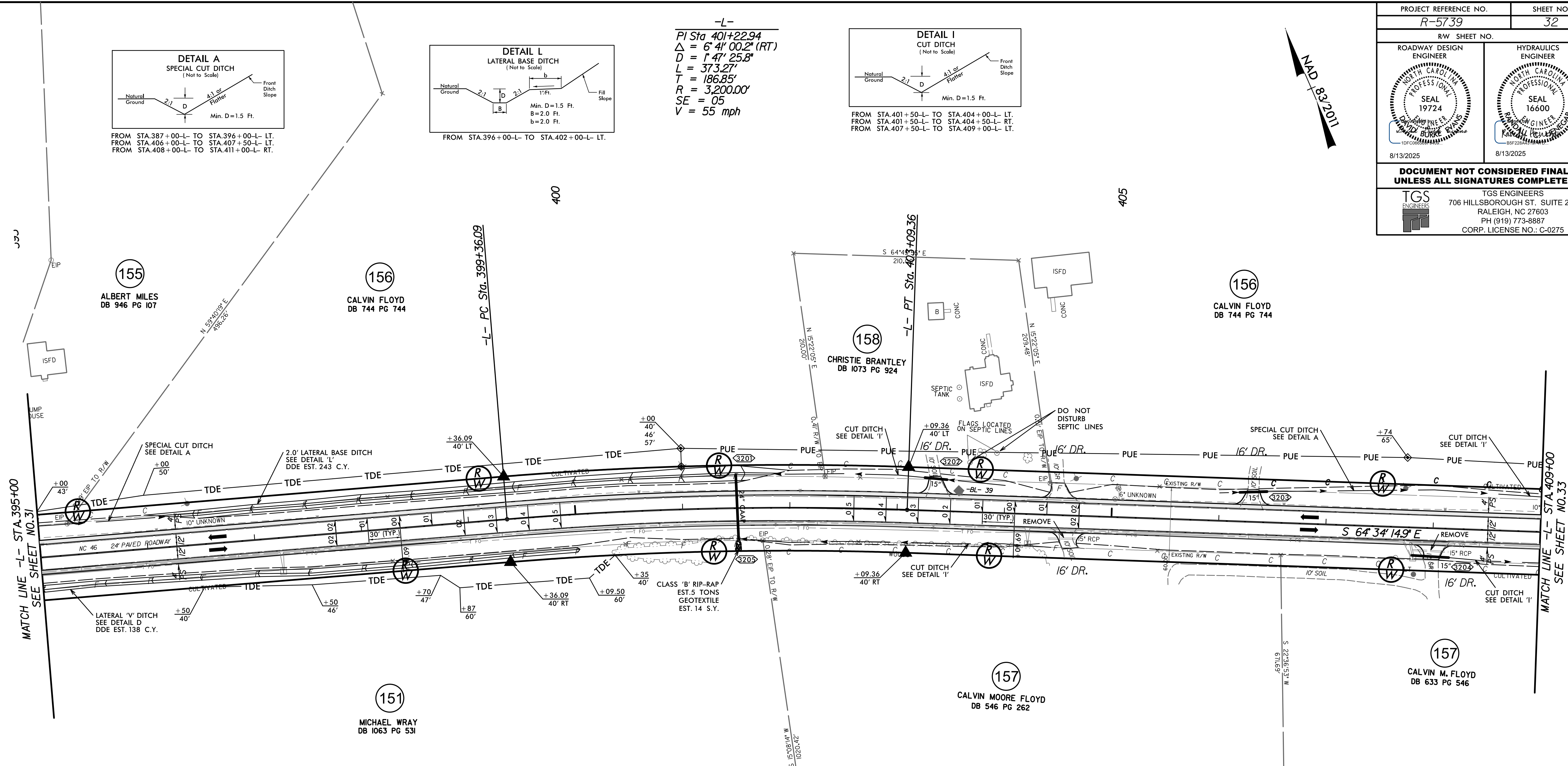
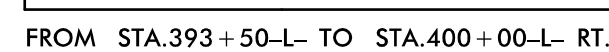
D

4:1 or flatter

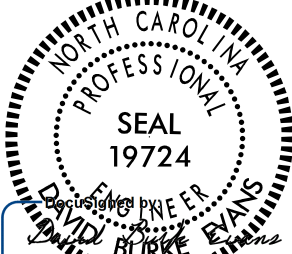
Front Ditch Slope

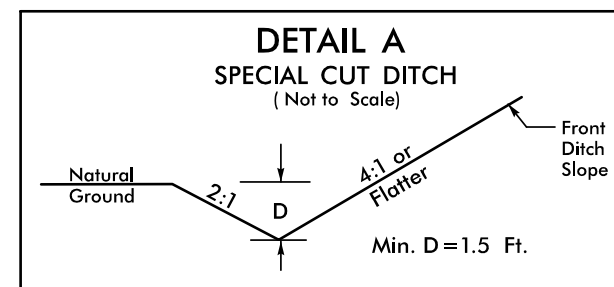
Min. D = 1.5 Ft.

FROM STA.401+50-L TO STA.404+00-L LT.
FROM STA.401+50-L TO STA.404+50-L RT.
FROM STA.407+50-L TO STA.409+00-L LT.

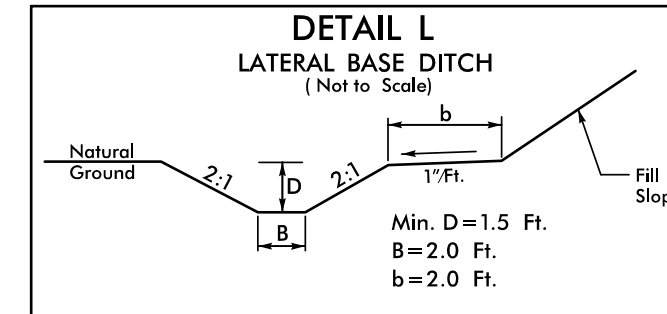


SEE SHEET 58 FOR -L- PROFILE

PROJECT REFERENCE NO.		SHEET NO.	
R-5739		32	
RW SHOOT NO.			
ROADWAY DESIGN ENGINEER 		HYDRAULICS ENGINEER 	
8/13/2025		8/13/2025	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
		TGS ENGINEERS 706 HILLSBOROUGH ST., SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275	



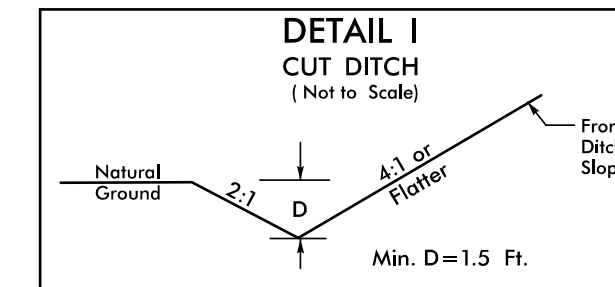
FROM STA.409+00-L- TO STA.411+50-L- LT.
FROM STA.408+00-L- TO STA.411+00-L- RT.



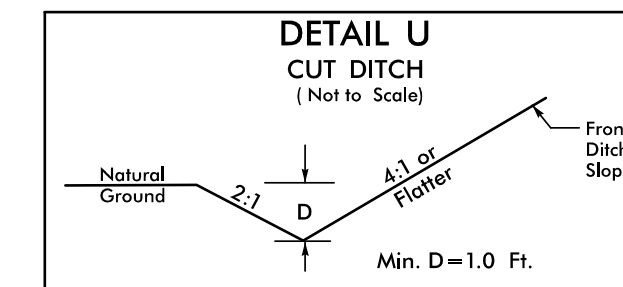
FROM STA.418+50-L TO STA.421+50-L RT
FROM STA.418+50-L TO STA.419+50-L LT

-L-

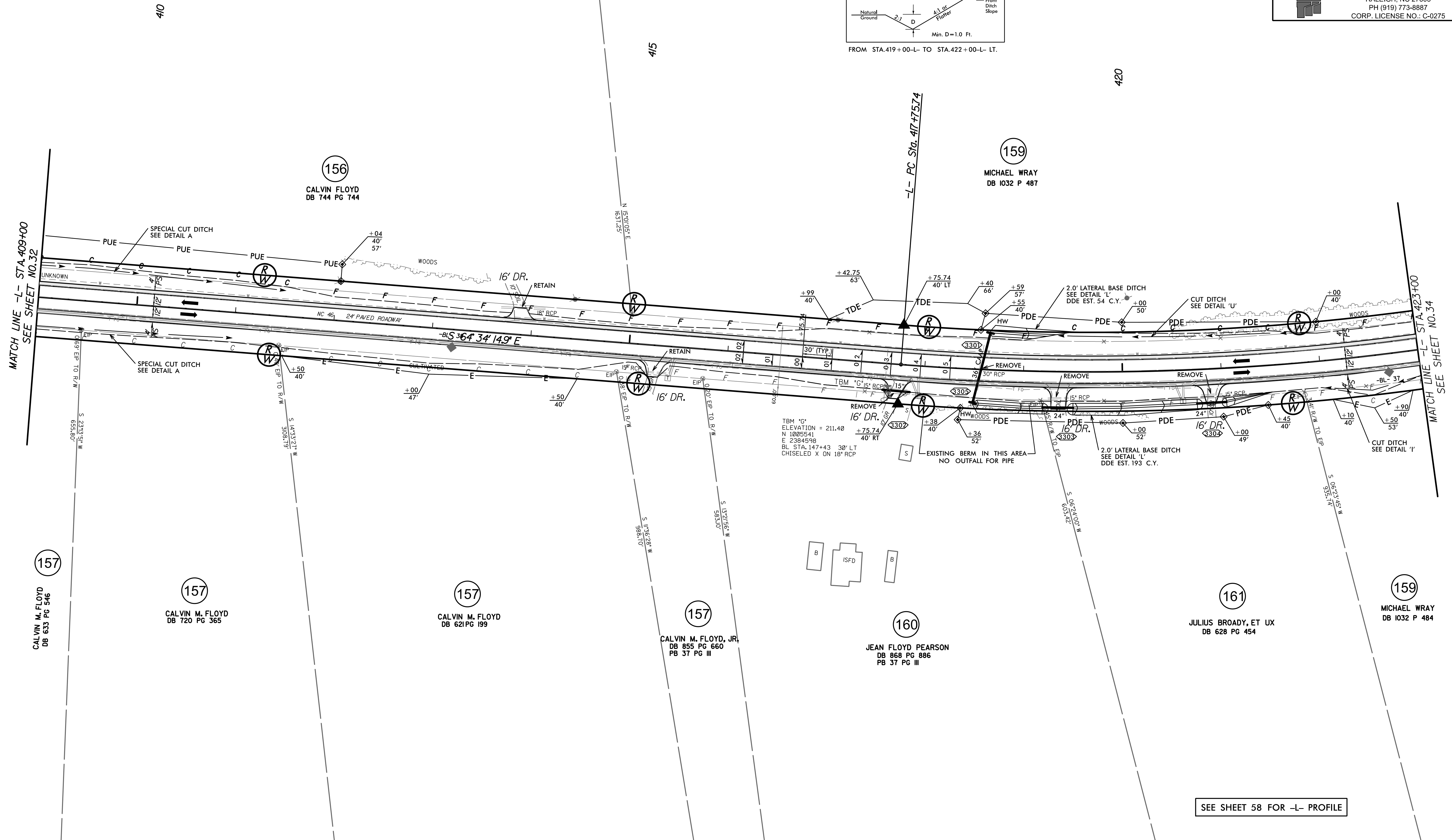
PI Sta 426+27.48
 $\Delta = 38^{\circ} 11' 43.8''$ (LT)
 $D = 2^{\circ} 19' 44.7''$
 $L = 1,639.93'$
 $T = 851.74'$
 $R = 2,460.00'$
 $SE = 08$
 $V = 55$ mph



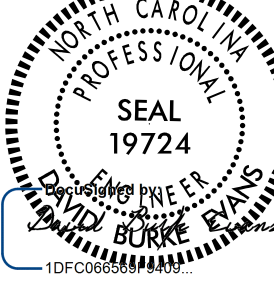
FROM STA.422+00-L- TO STA.423+00-L- RT

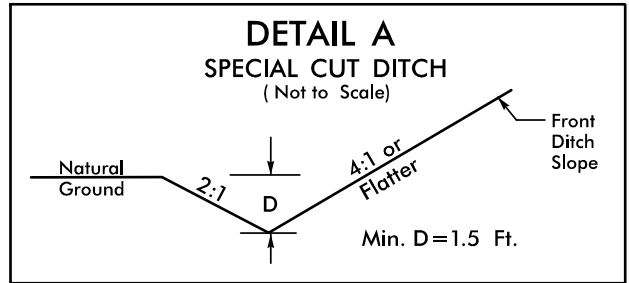


FROM STA.419+00-L- TO STA.422+00-L- LT.

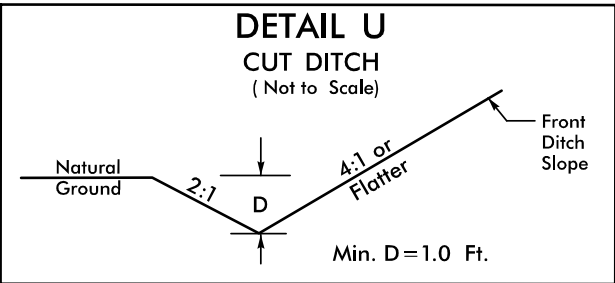


SEE SHEET 58 FOR -L- PROFILE

PROJECT REFERENCE NO.	SHEET NO.
R-5739	33
RW SHEET NO.	
ROADWAY DESIGN ENGINEER  8/13/2025	HYDRAULICS ENGINEER  8/13/2025
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
 TGS ENGINEERS 706 HILLSBOROUGH ST., SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO. C-0275	

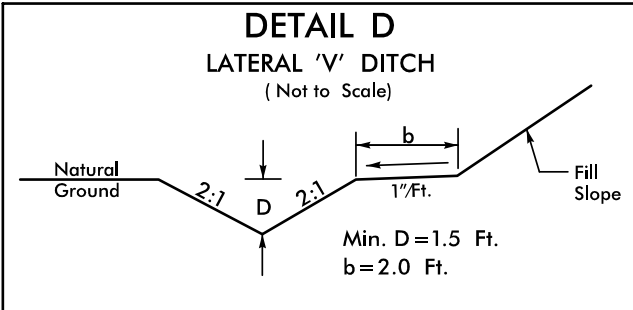


FROM STA.427+50-L- TO STA.429+50-L- RT.
FROM STA.427+50-L- TO STA.433+50-L- LT.
FROM STA.433+93-L- TO STA.439+00-L- LT.



FROM STA.424+50-L- TO STA.425+50-L- LT.

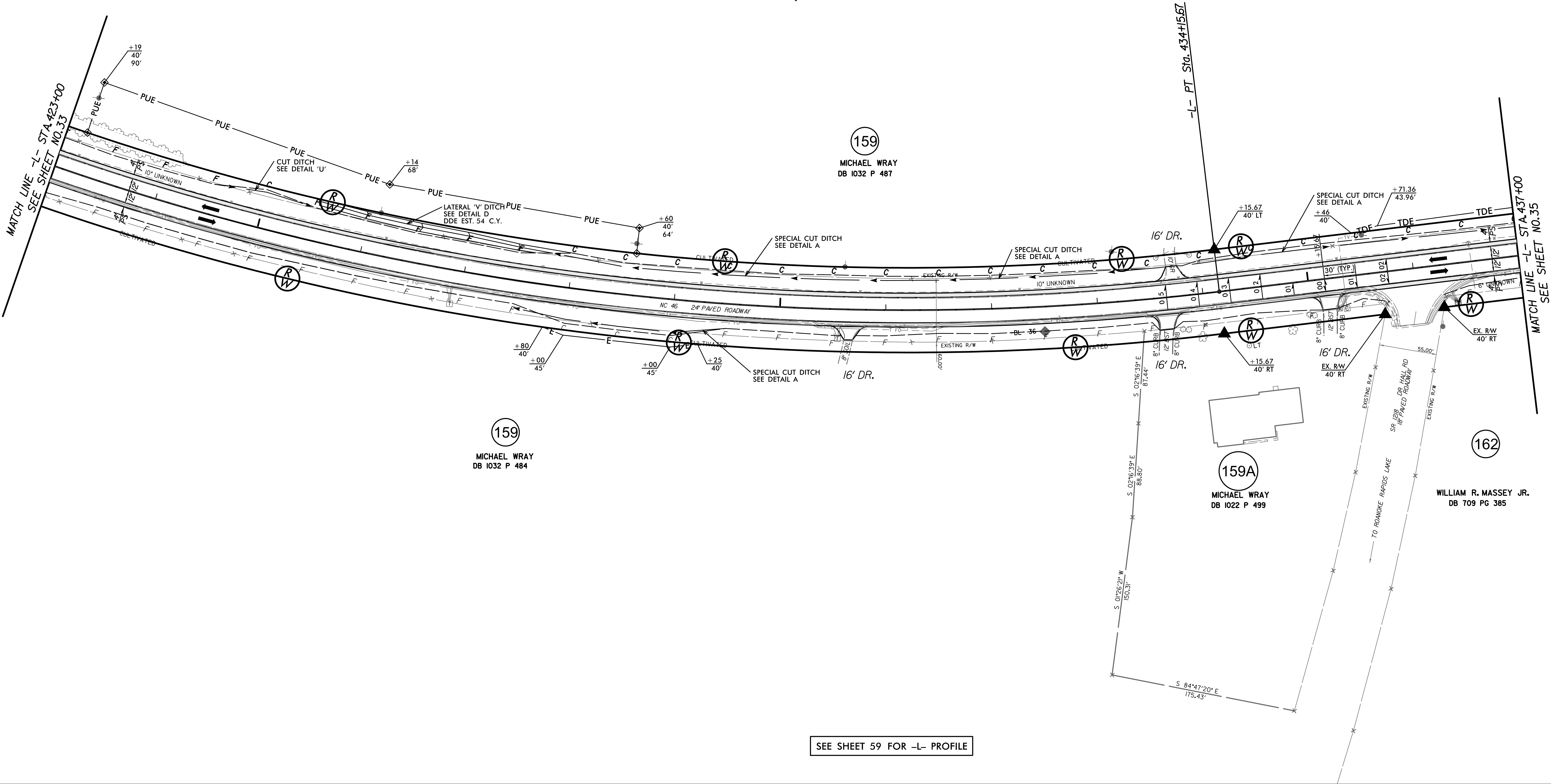
-L-
PI Sta 426+27.48
 $\Delta = 38^{\circ}11'43.8''$ (LT)
D = 2' 19" 44.7"
L = 1639.93'
T = 851.74'
R = 2,460.00'
SE = 08
V = 55 mph

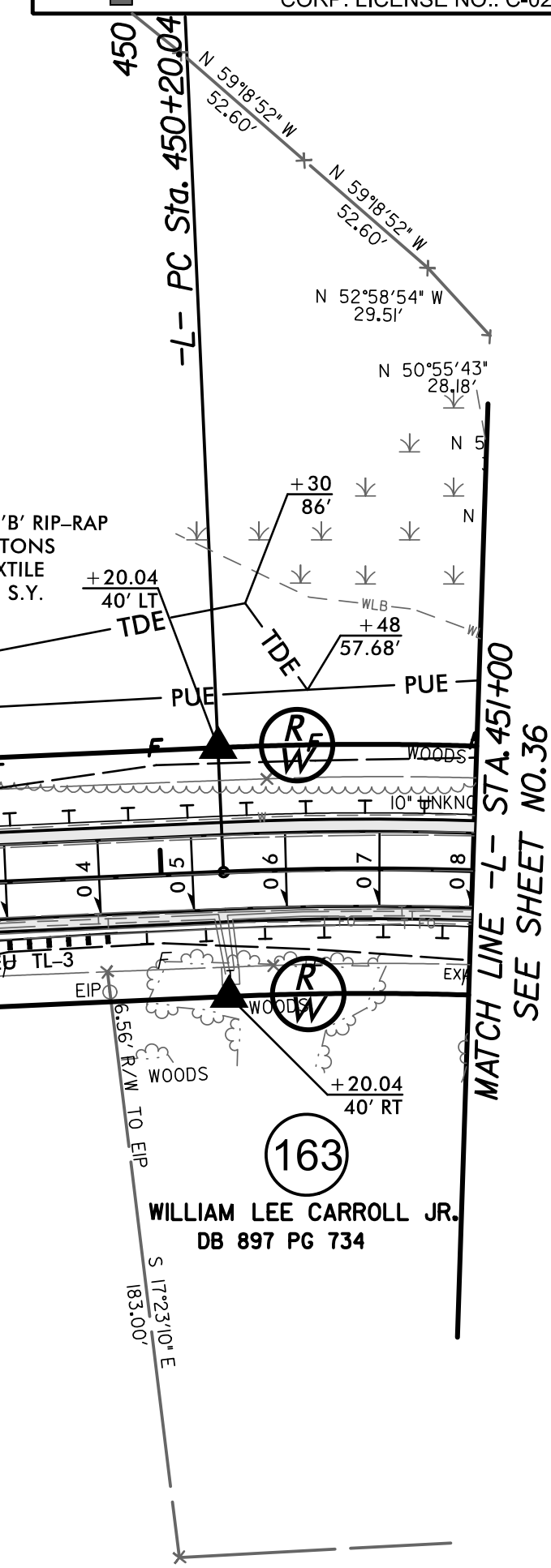
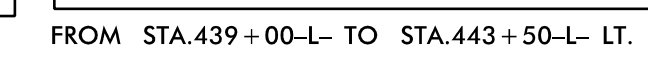


FROM STA.425+50-L- TO STA.428+00-L- LT.

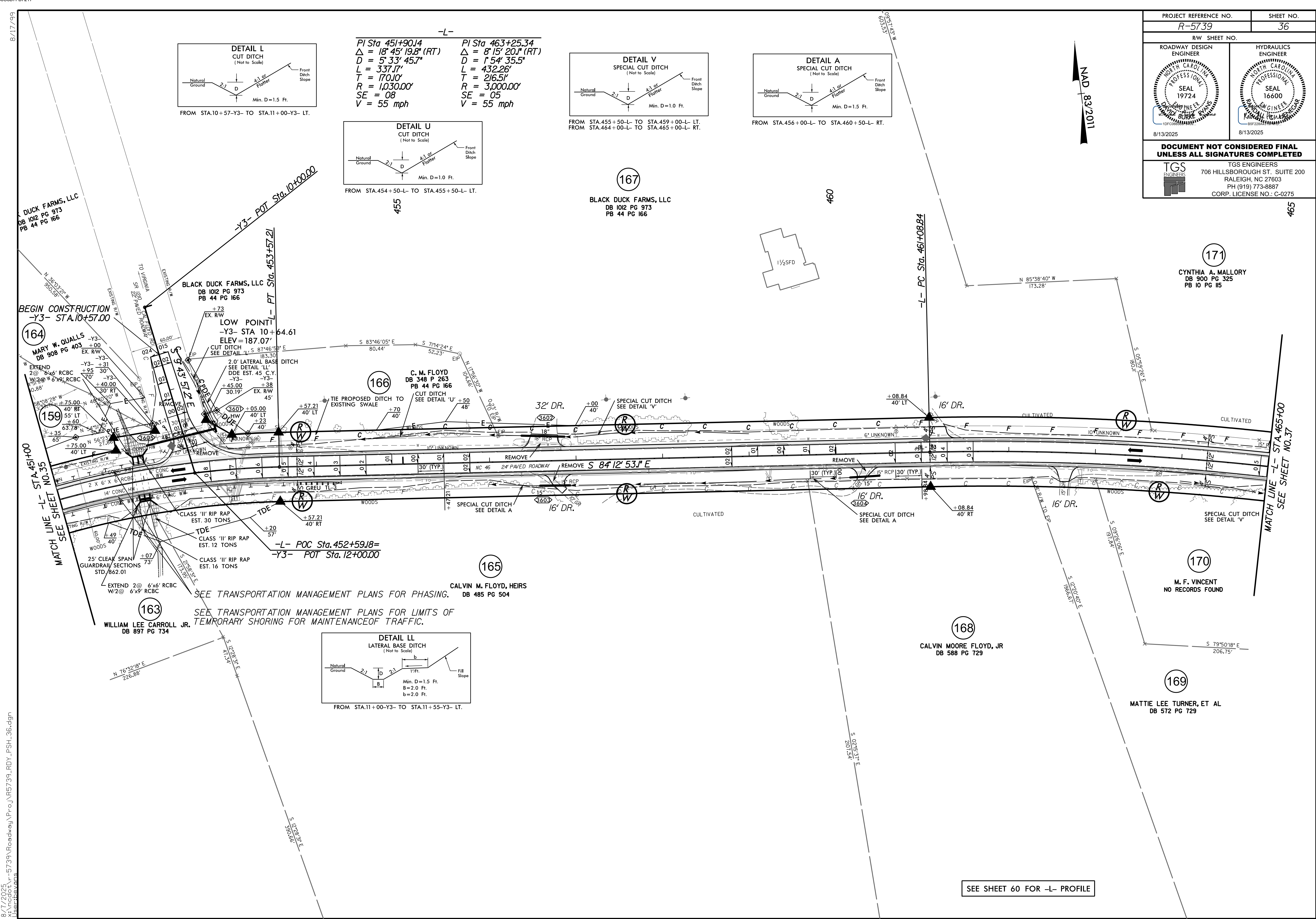
NAD 83 2011

PROJECT REFERENCE NO. R-5739		SHEET NO. 34
R/W SHEET NO.		
ROADWAY DESIGN ENGINEER 8/13/2025	HYDRAULICS ENGINEER 8/13/2025	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		
TGS ENGINEERS 706 HILLSBOROUGH ST., SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275		





SEE SHEET 59 FOR -L- PROFILE



8/17/19

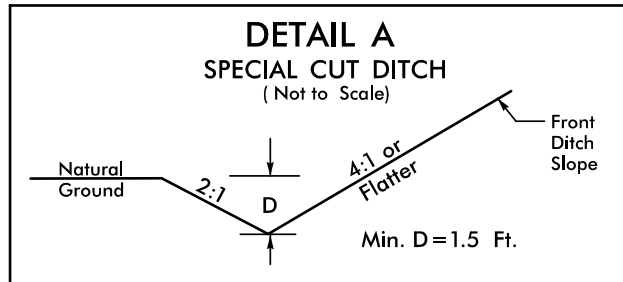
8/7/2025
N:\cadd\05-5739\Roadway\ProJ\RE739_RDY_PSH_36.dgn
10:44:40 AM

PROJECT REFERENCE NO. R-5739		SHEET NO. 36
RW SHEET NO.		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
8/13/2025	8/13/2025	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		
	TGS ENGINEERS 706 HILLSBOROUGH ST., SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275	

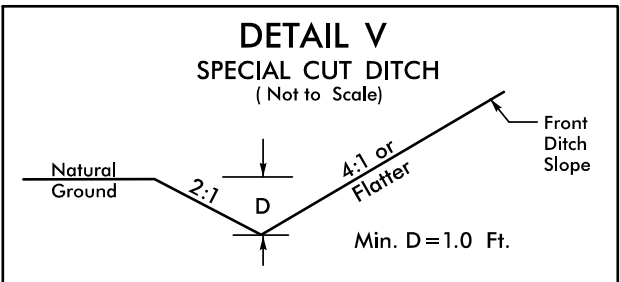
8/17/99

-L-

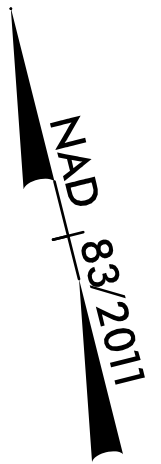
PI Sta 463+25.34	PI Sta 477+04.57
$\Delta = 8^{\circ}15'20.1''$ (RT)	$\Delta = 0^{\circ}08'53.9''$ (RT)
$D = 1^{\circ}54'35.5''$	$D = 0^{\circ}22'55.1''$
$L = 432.26'$	$L = 38.83'$
$T = 216.51'$	$T = 19.41'$
$R = 3,000.00'$	$R = 15,000.00'$
$SE = 05$	$SE = NC$
$V = 55$ mph	$V = 55$ mph



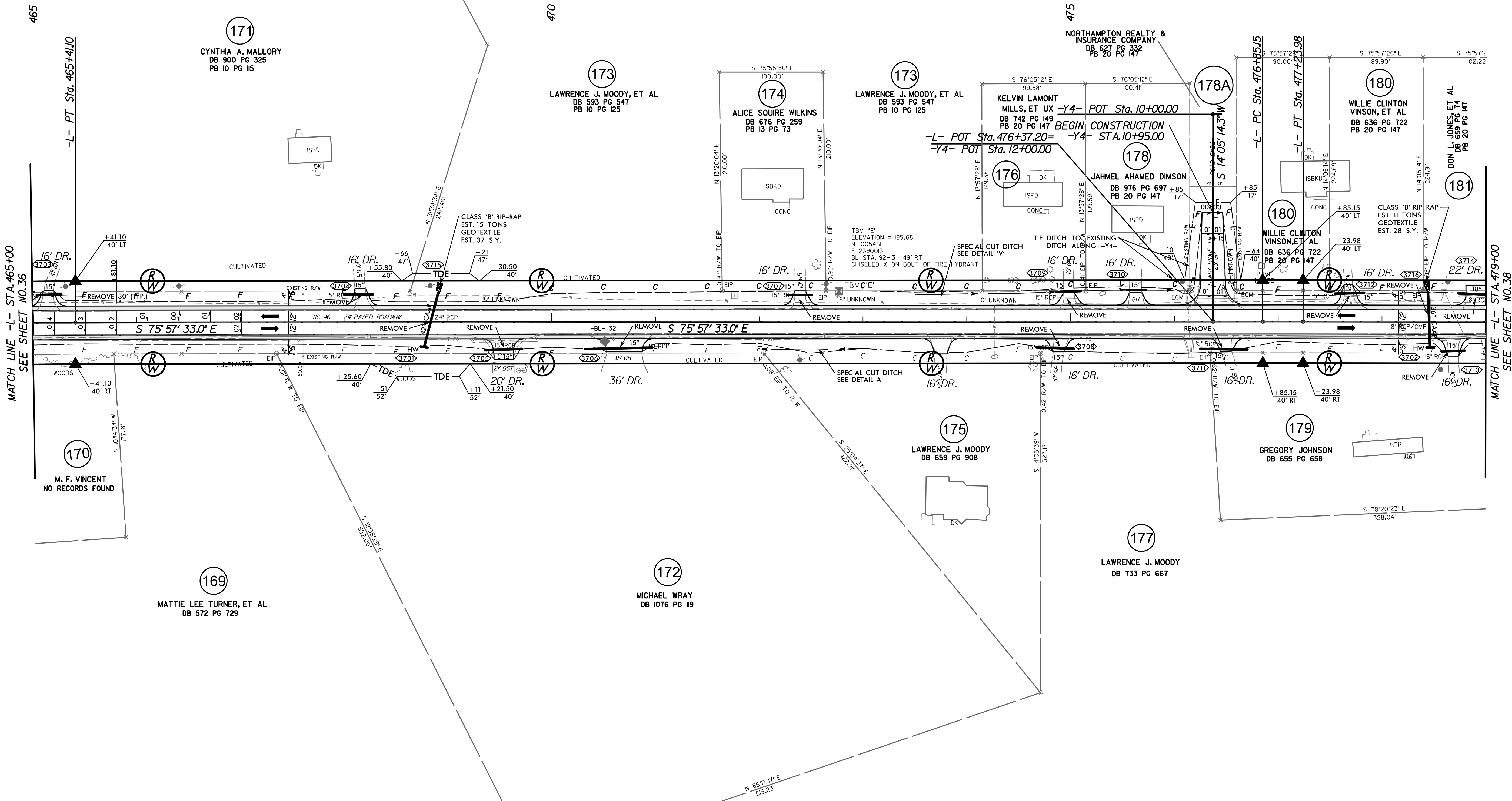
FROM STA.472+00-L TO STA.473+00-L- RT.



FROM STA.473+50-L TO STA.476+00-L- LT.

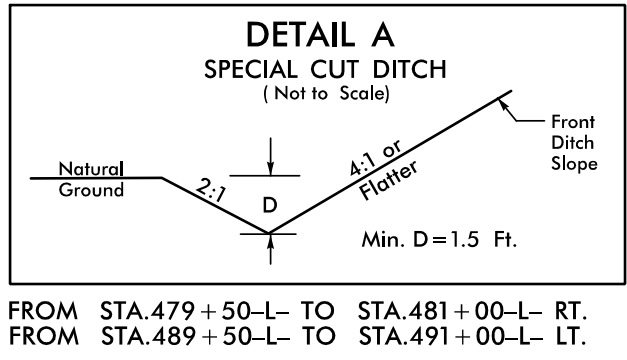
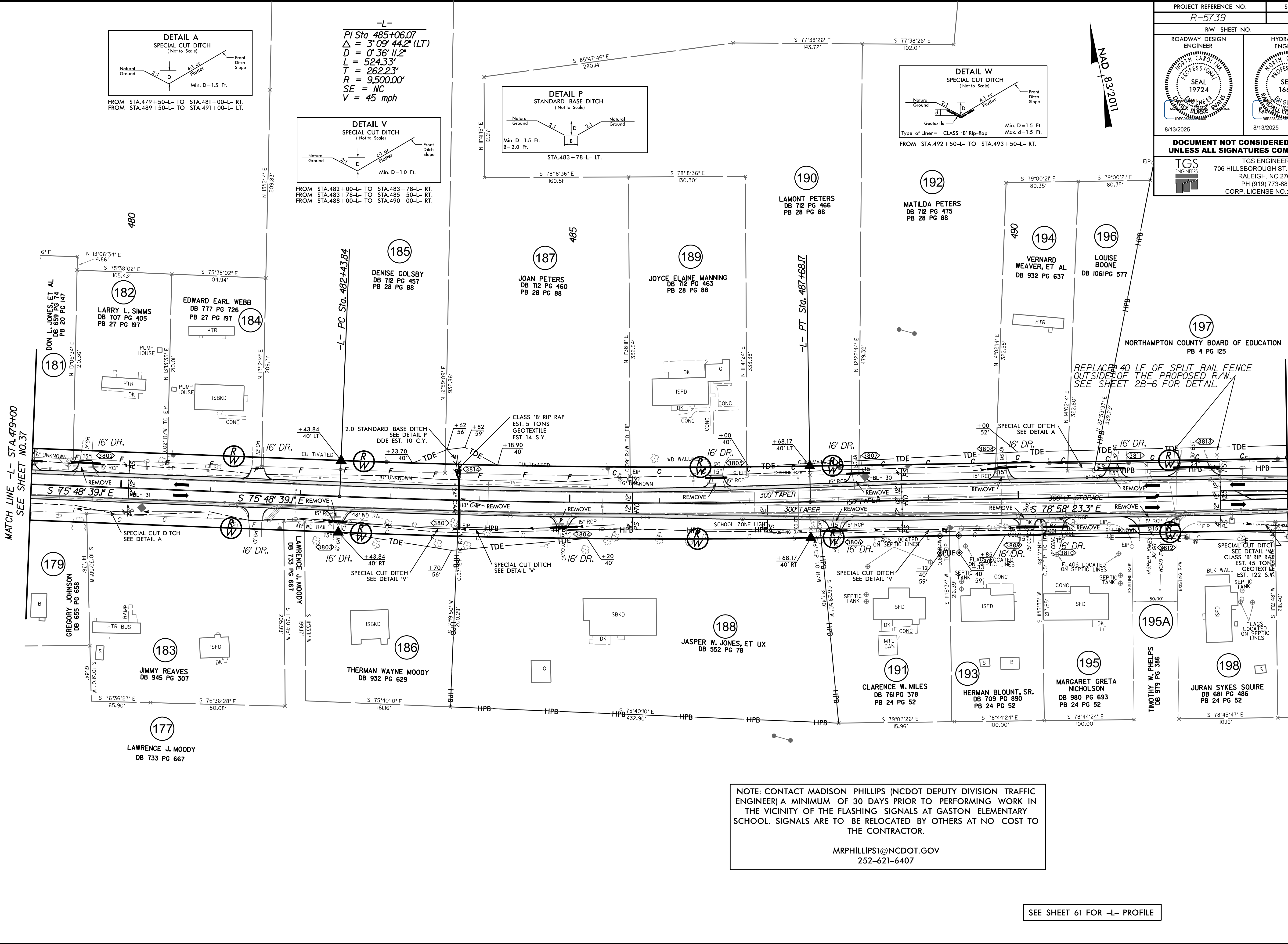


PROJECT REFERENCE NO. R-5739		SHEET NO. 37
R/W SHEET NO.		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
8/13/2025	8/13/2025	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		
 TGS ENGINEERS 706 HILLSBOROUGH ST., SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275		

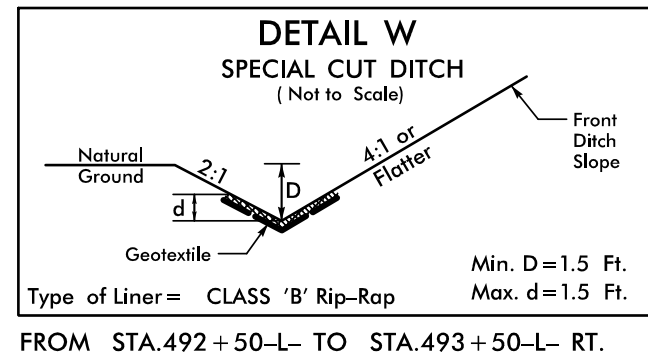
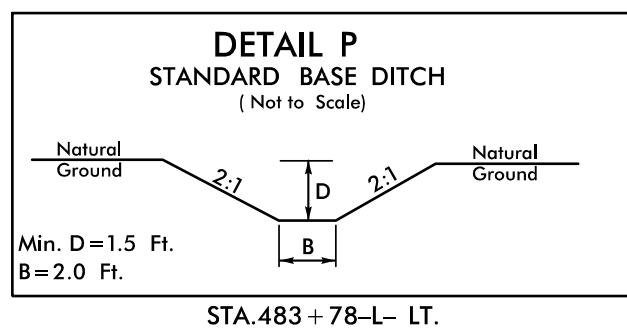
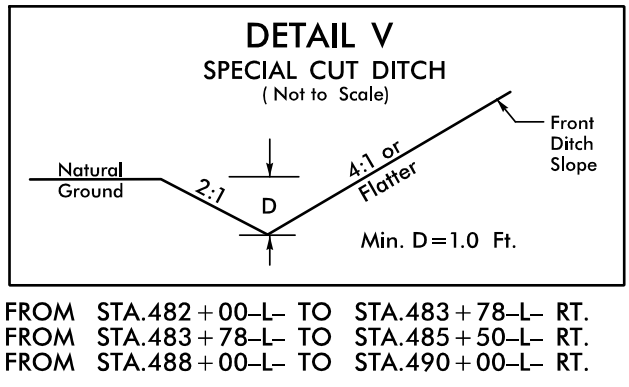


SEE SHEET 60 FOR -L- PROFILE

8/17/09



-L-
PI Sta 485+06.07
 $\Delta = 3^{\circ} 09' 44.2''$ (LT)
 $D = 0' 36' 11.2''$
 $L = 524.33'$
 $T = 262.23'$
 $R = 9,500.00'$
 $SE = NC$
 $V = 45$ mph

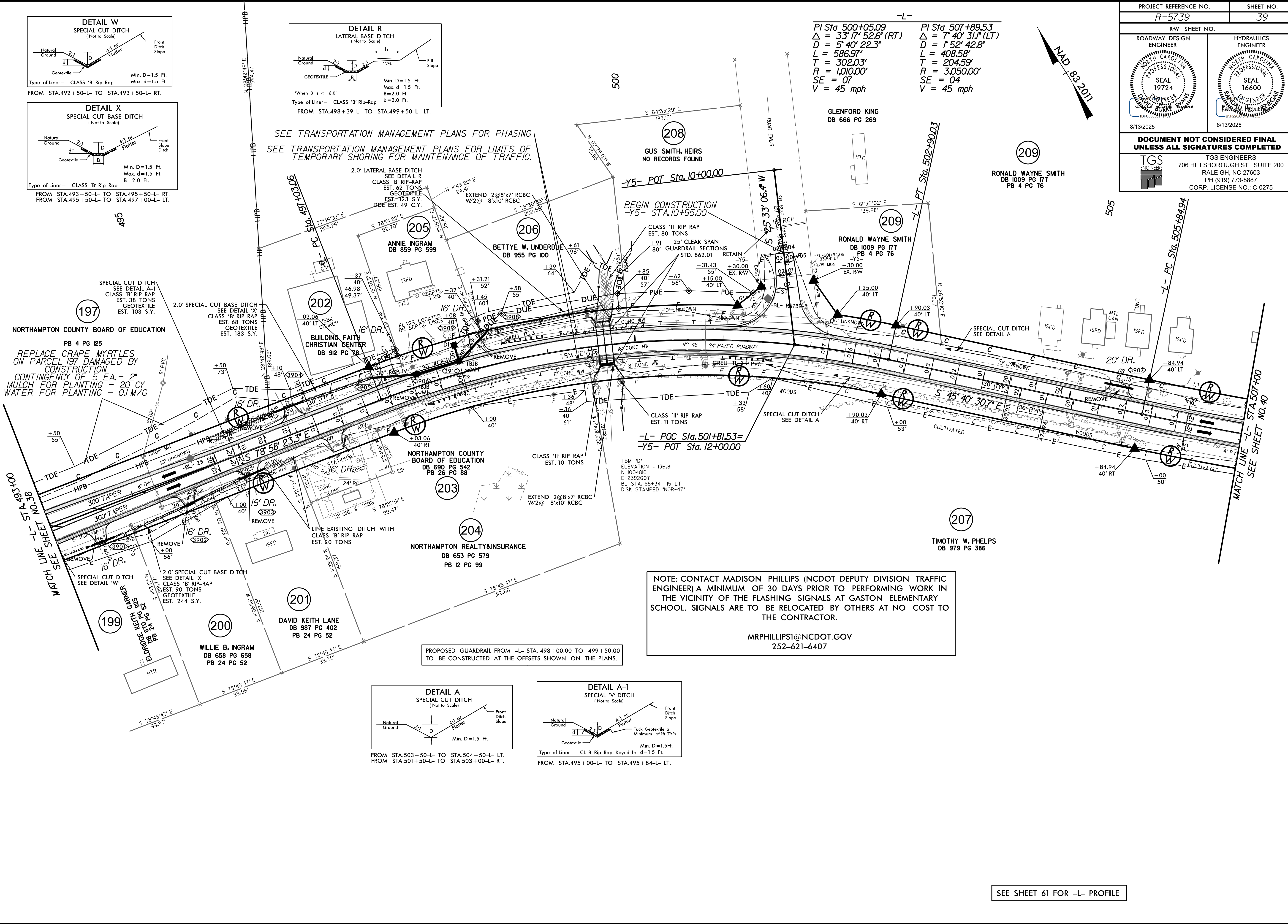


PROJECT REFERENCE NO. R-5739		SHEET NO. 38	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		SEAL 19724	
8/13/2025		8/13/2025	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
TGS ENGINEERS 706 HILLSBOROUGH ST., SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275		TGS ENGINEERS 706 HILLSBOROUGH ST., SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275	

NOTE: CONTACT MADISON PHILLIPS (NCDOT DEPUTY DIVISION TRAFFIC ENGINEER) A MINIMUM OF 30 DAYS PRIOR TO PERFORMING WORK IN THE VICINITY OF THE FLASHING SIGNALS AT GASTON ELEMENTARY SCHOOL. SIGNALS ARE TO BE RELOCATED BY OTHERS AT NO COST TO THE CONTRACTOR.

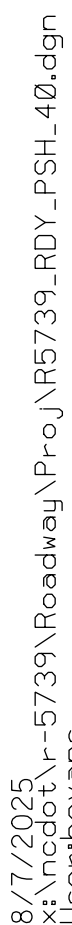
MRPHILLIPS1@NCDOT.GOV
252-621-6407

SEE SHEET 61 FOR -L- PROFILE

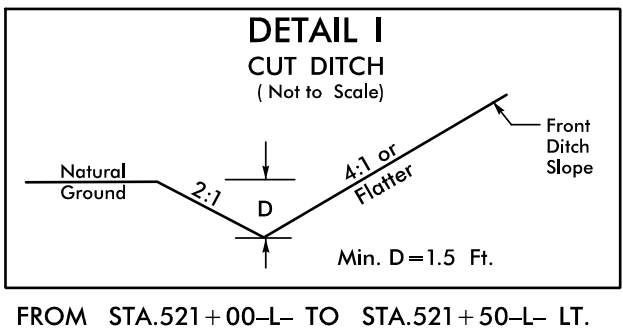


PROJECT REFERENCE NO.		SHEET NO.
R-5739		39
RW SHEET NO.		
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER
8/13/2025		8/13/2025
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		
		TGS ENGINEERS 706 HILLSBOROUGH ST., SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275

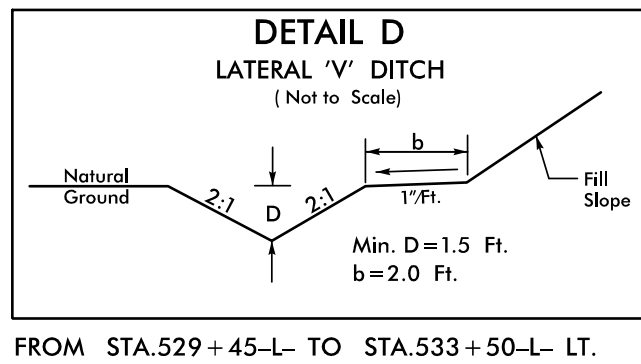
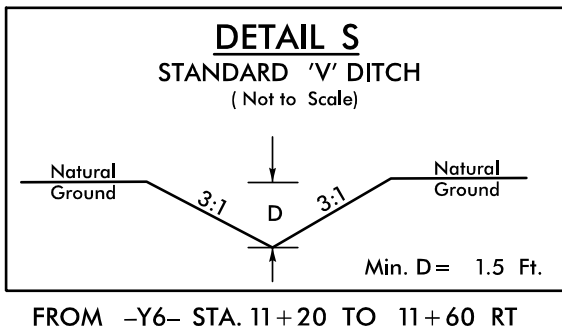
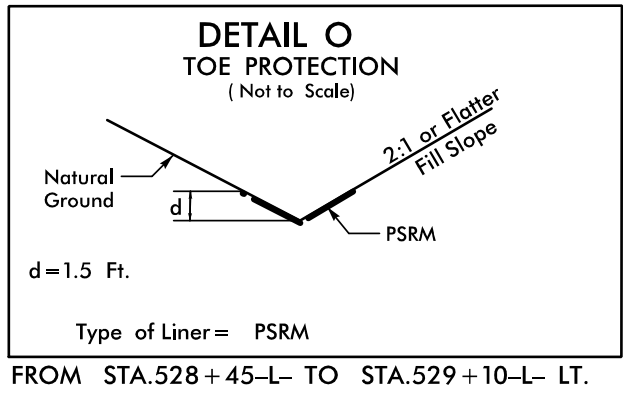
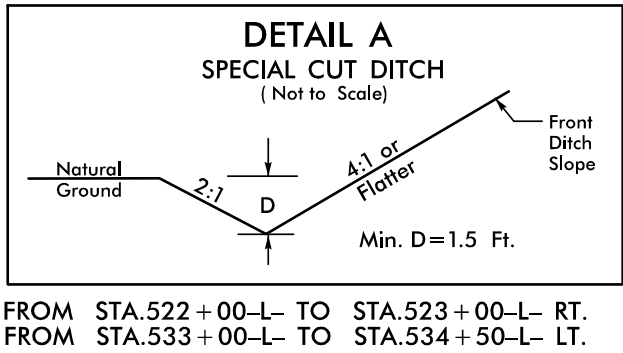
SEE SHEET 61 FOR -L- PROFILE



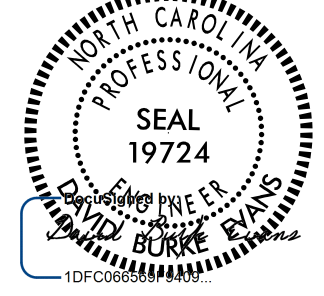
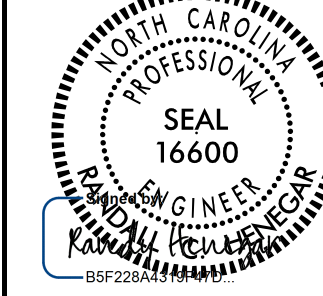
8/17/99

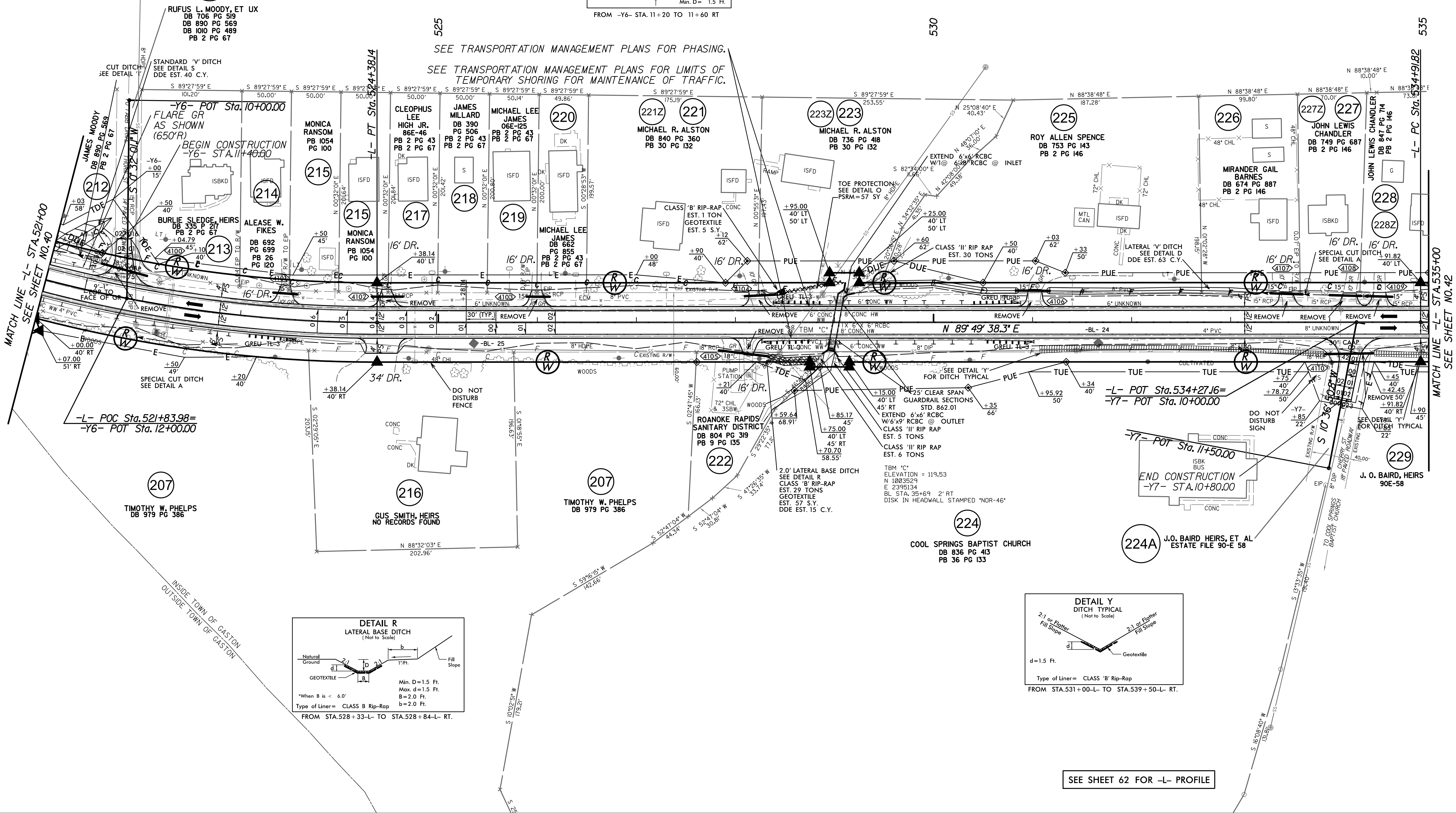


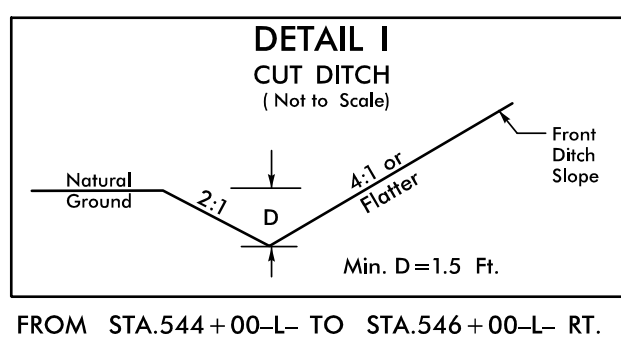
-L-
PI Sta 520+29.20
 $\Delta = 36^{\circ} 49' 19.9''$ (LT)
 $D = 4' 20'' 26.1''$
 $L = 848.32'$
 $T = 439.39'$
 $R = 1,320.00'$
 $SE = 06$
 $V = 45$ mph



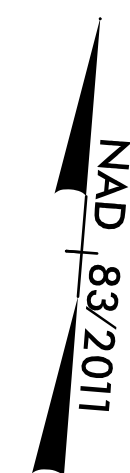
NAD 83/2011

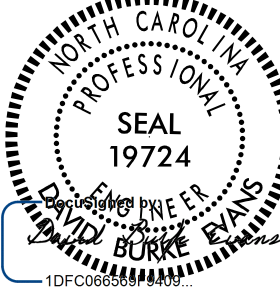
PROJECT REFERENCE NO.		SHEET NO.
R-5739		41
RW SHEET NO.		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
		
8/13/2025	8/13/2025	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		
	TGS ENGINEERS 706 HILLSBOROUGH ST., SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275	

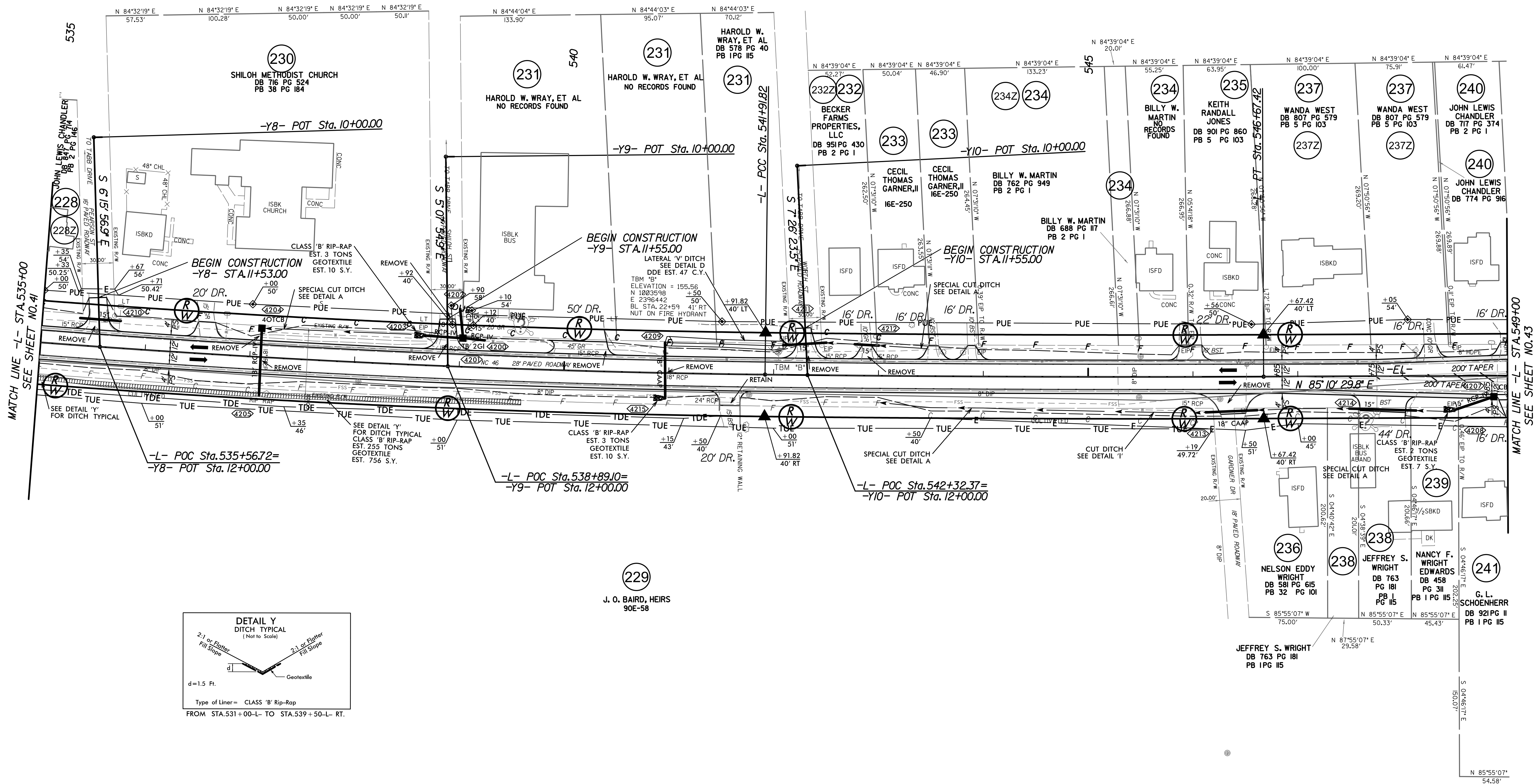




-7-



PROJECT REFERENCE NO.		SHEET NO.	
R-5739		42	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER 		HYDRAULICS ENGINEER 	
8/13/2025		8/13/2025	
DOCUMENT NOT CERTIFIED FINAL UNLESS ALL SIGNATURES COMPLETED			
		TGS ENGINEERS 706 HILLSBOROUGH ST., SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275	



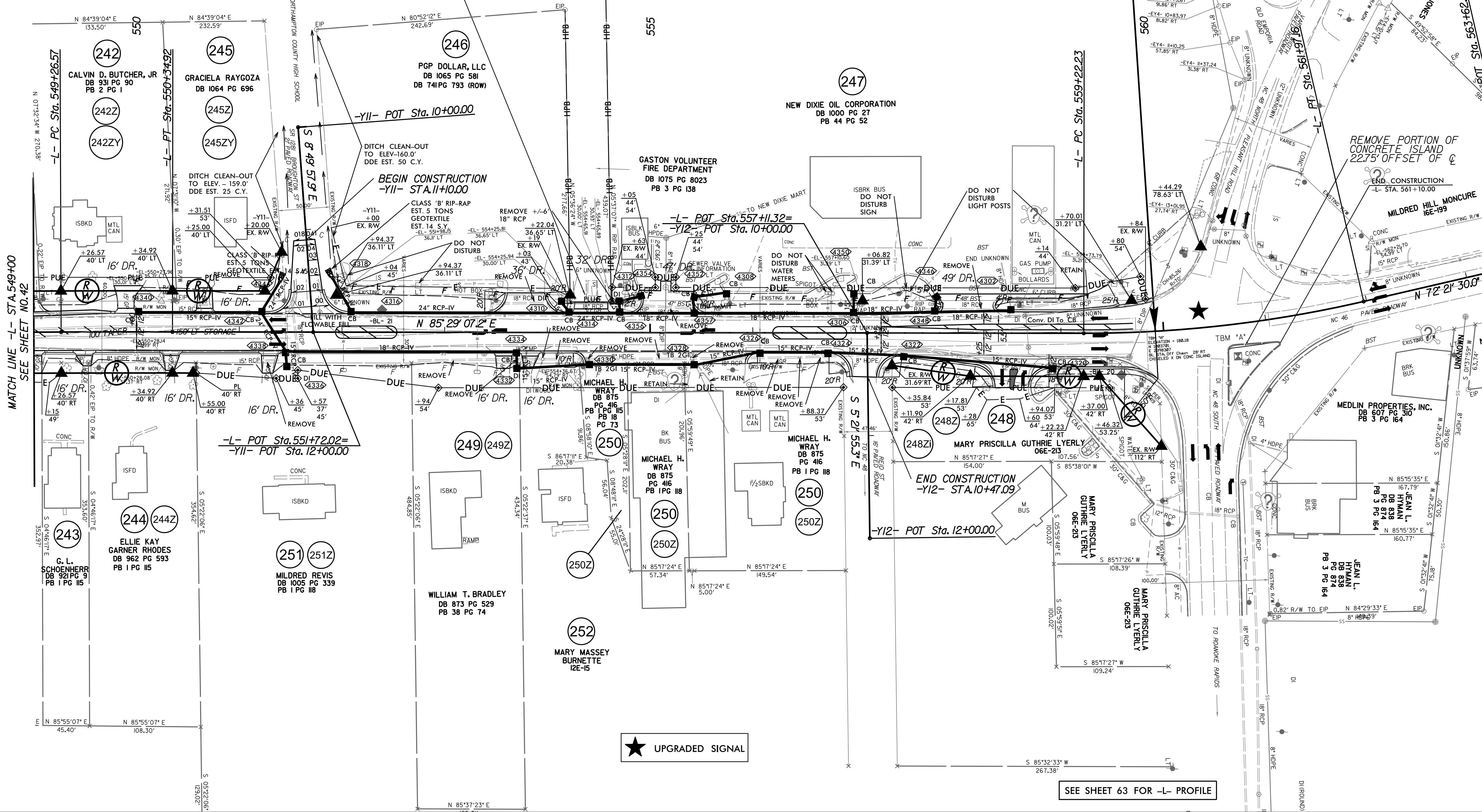
SEE SHEET 63 FOR -L- PROFILE

8/17/09

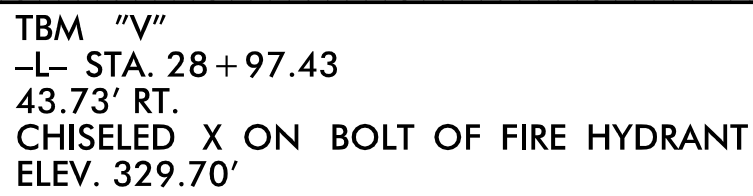
-L-		
PI Sta 544+29.63	PI Sta 549+80.75	PI Sta 560+60.30
$\Delta = 0^{\circ} 55' 48.5" (LT)$	$\Delta = 0^{\circ} 18' 37.4" (RT)$	$\Delta = 13^{\circ} 07' 37.2" (LT)$
$D = 0' 11' 44.1"$	$D = 0' 17' 11.3"$	$D = 4' 46' 28.7"$
$L = 475.60'$	$L = 108.35'$	$L = 274.93'$
$T = 237.81'$	$T = 54.17'$	$T = 138.07'$
$R = 29,296.53'$	$R = 20,000.00'$	$R = 1,200.00'$
$SE = NC$	$SE = NC$	$SE = SEE PLANS$
$V = 45 \text{ mph}$	$V = 35 \text{ mph}$	$V = 35 \text{ mph}$

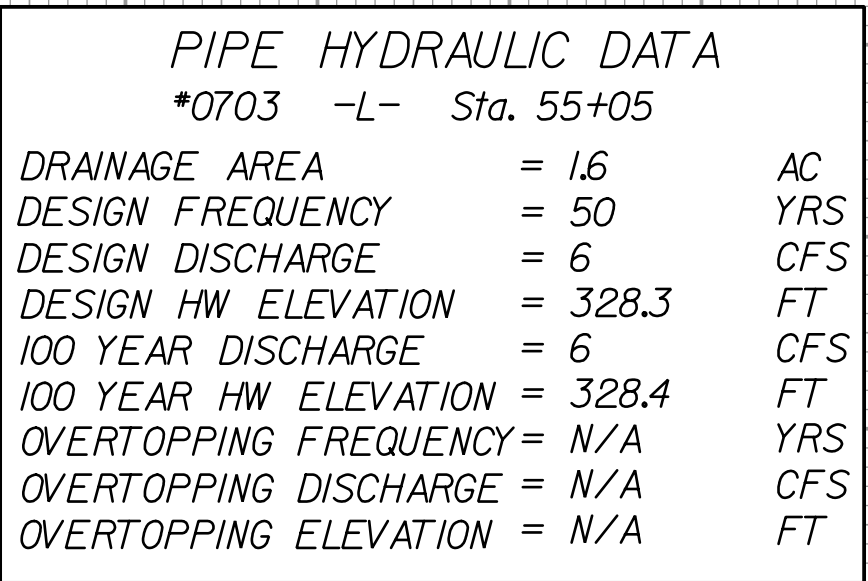
DO NOT DISTURB EX. SIGN.
NO CONSTRUCTION / IMPACT WILL BE PERMITTED WITHIN THE HISTORIC BOUNDARY.

END T.I.P. PROJECT R-5739
-L- STA.559+91.97



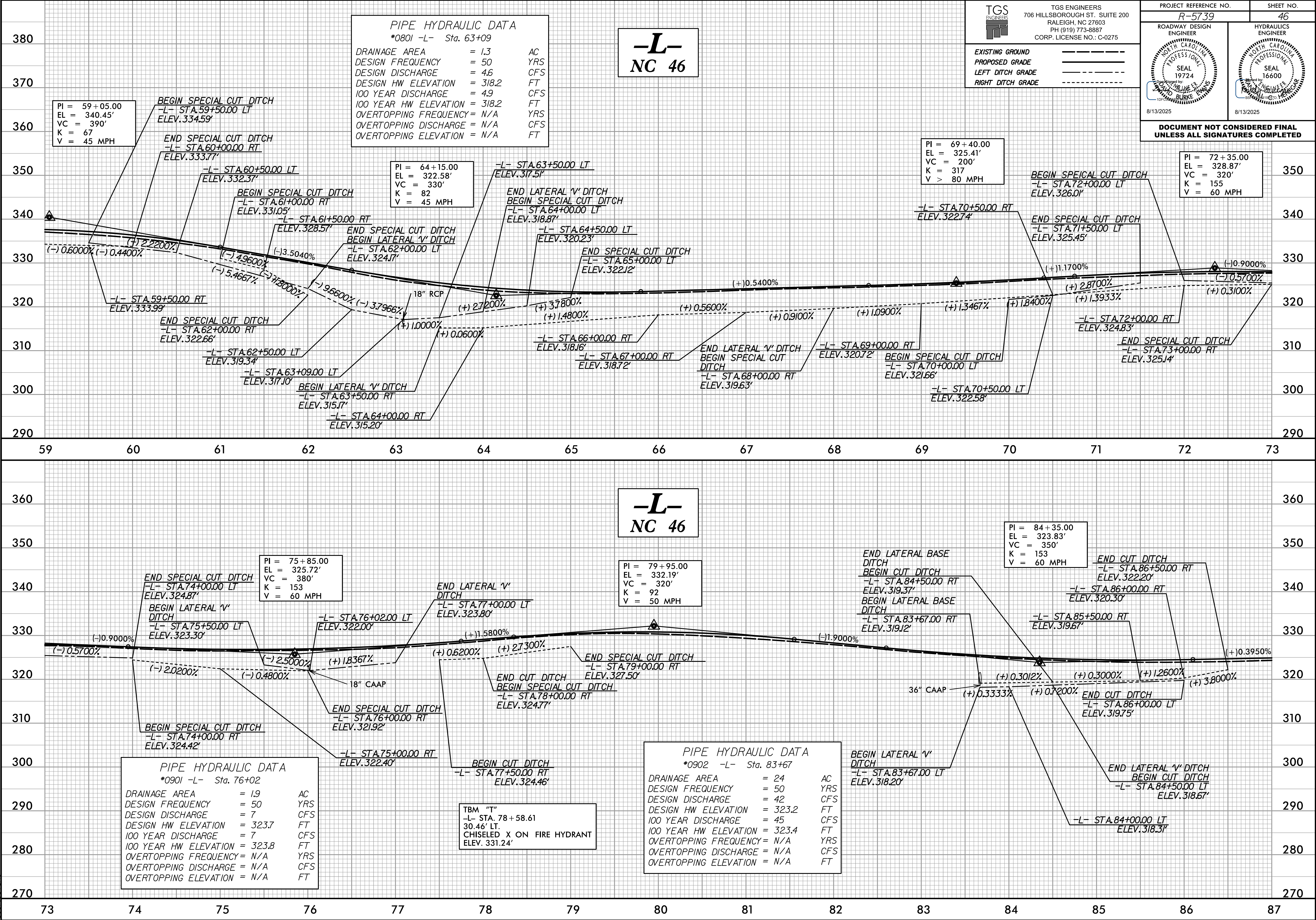
PROJECT REFERENCE NO. R-5739		SHEET NO. 43	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		SEAL 17724	
8/13/2025		8/13/2025	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
TGS ENGINEERS 706 HILLSBOROUGH ST., SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275		TGS ENGINEERS 706 HILLSBOROUGH ST., SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275	

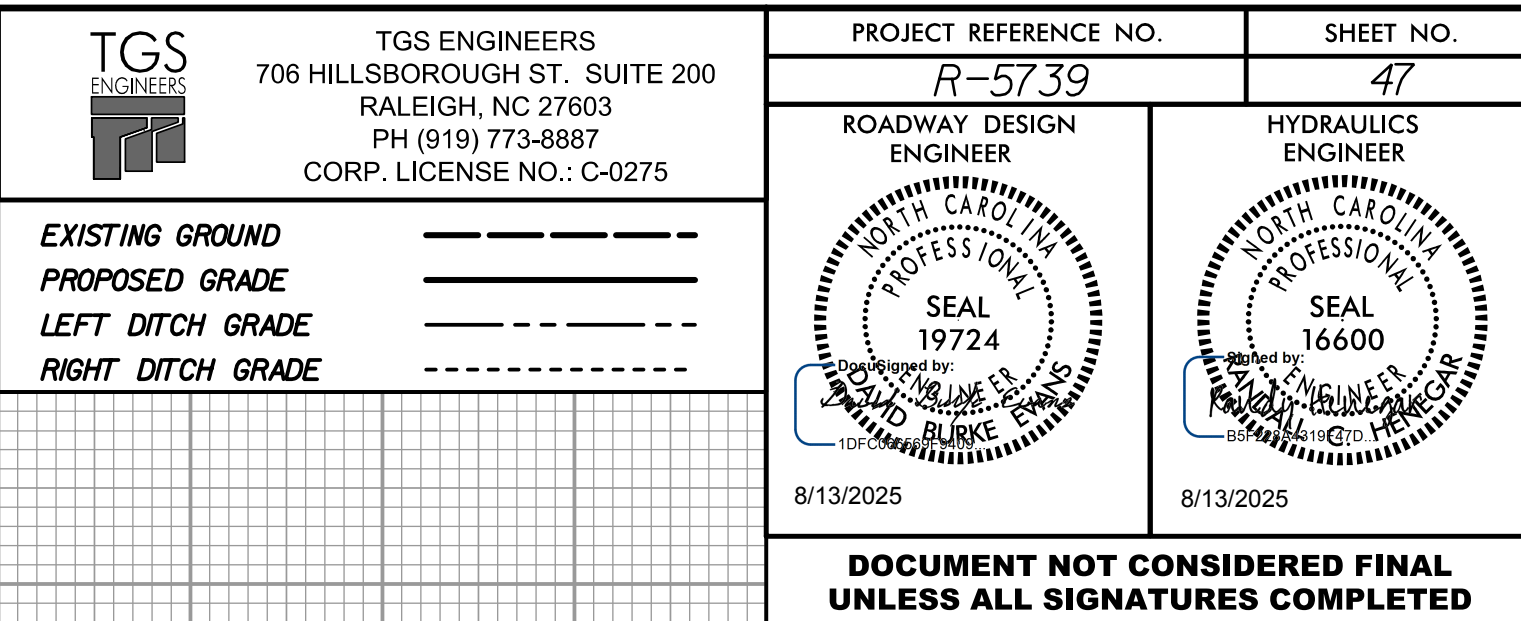


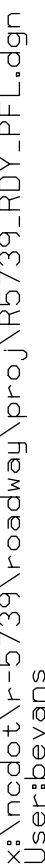


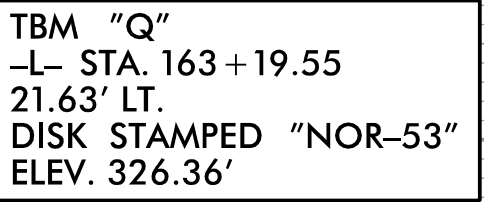
5/28/2025

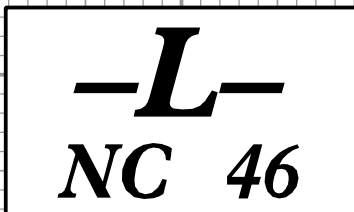
5/28/2025
X:\ncdot\1-5739\roadway\proj\15739_R01_PFL.dgn
User: jlvans





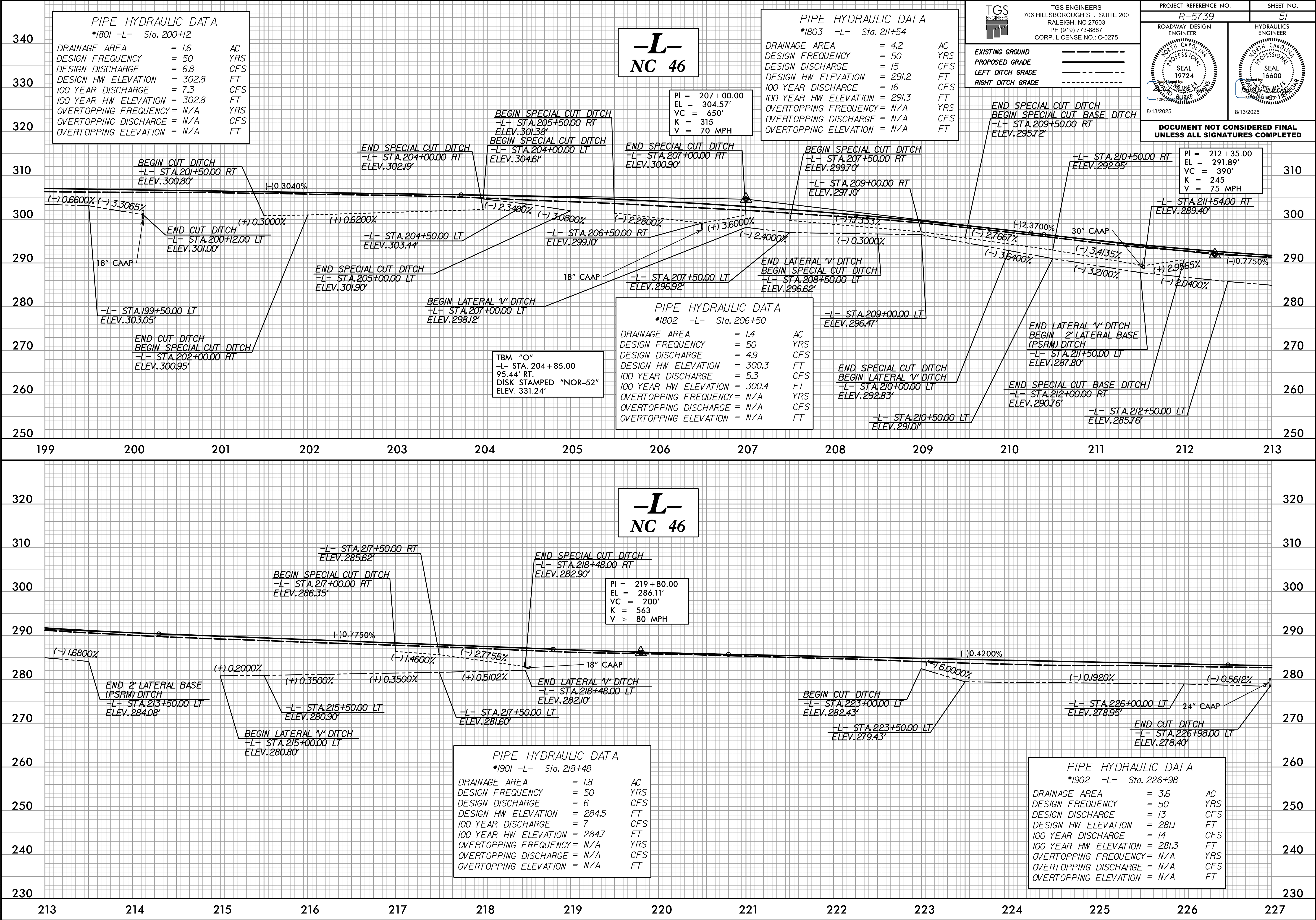


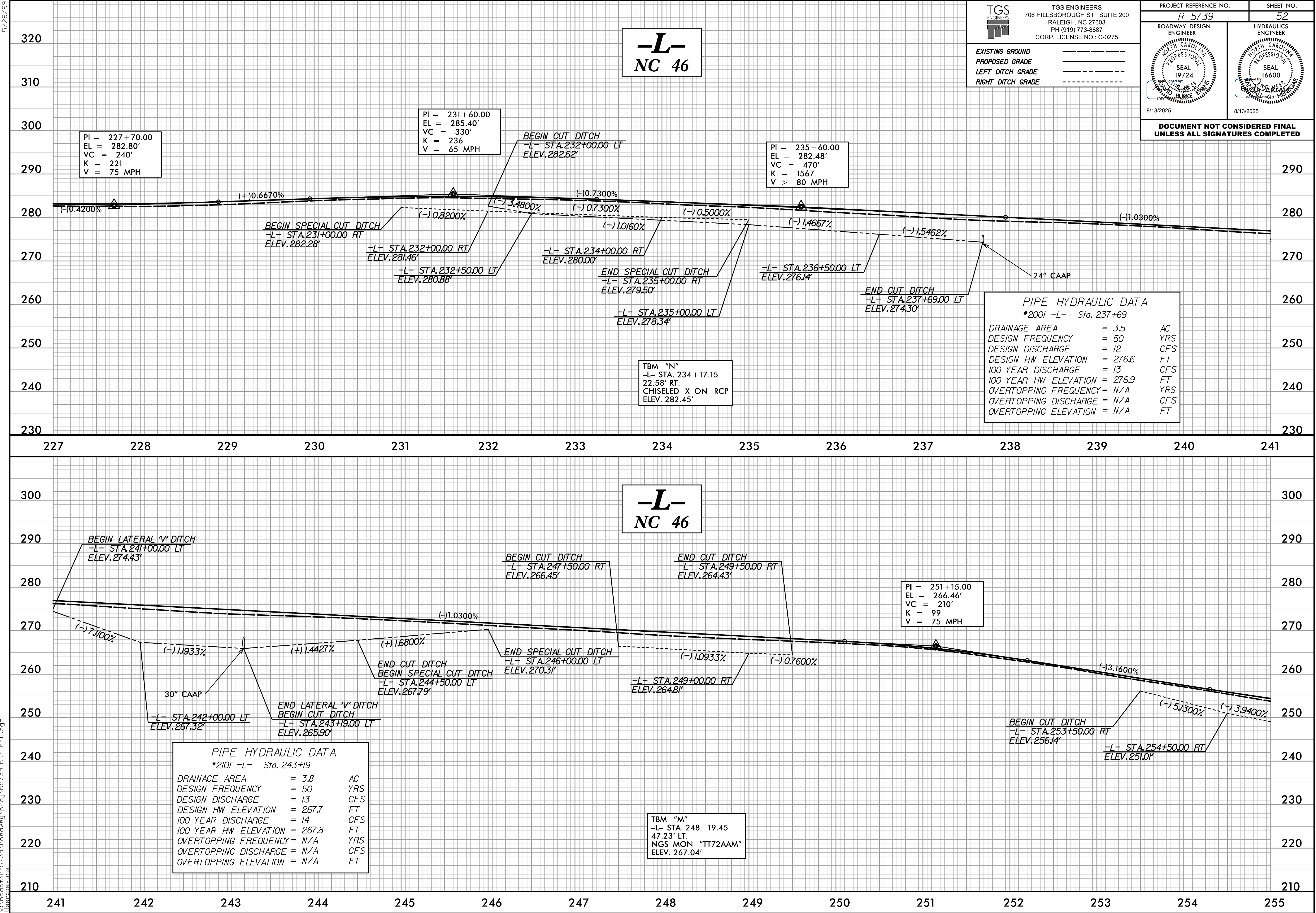


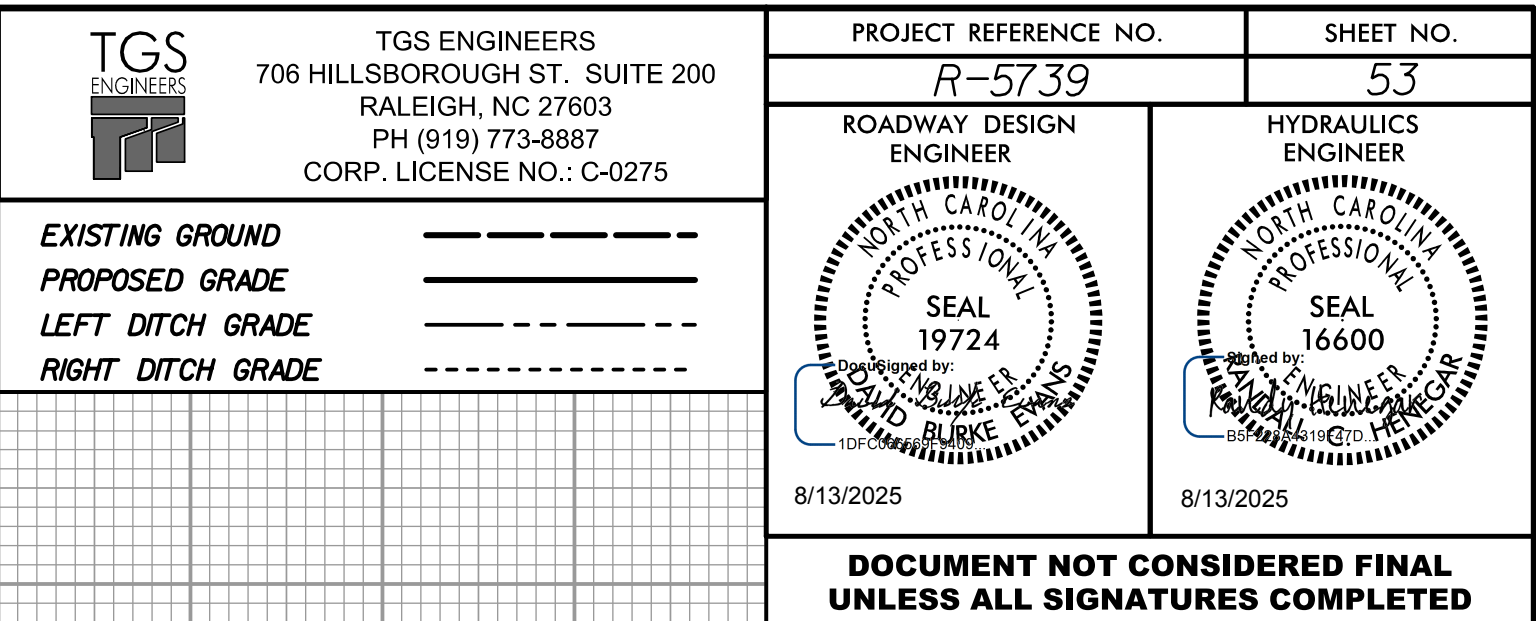


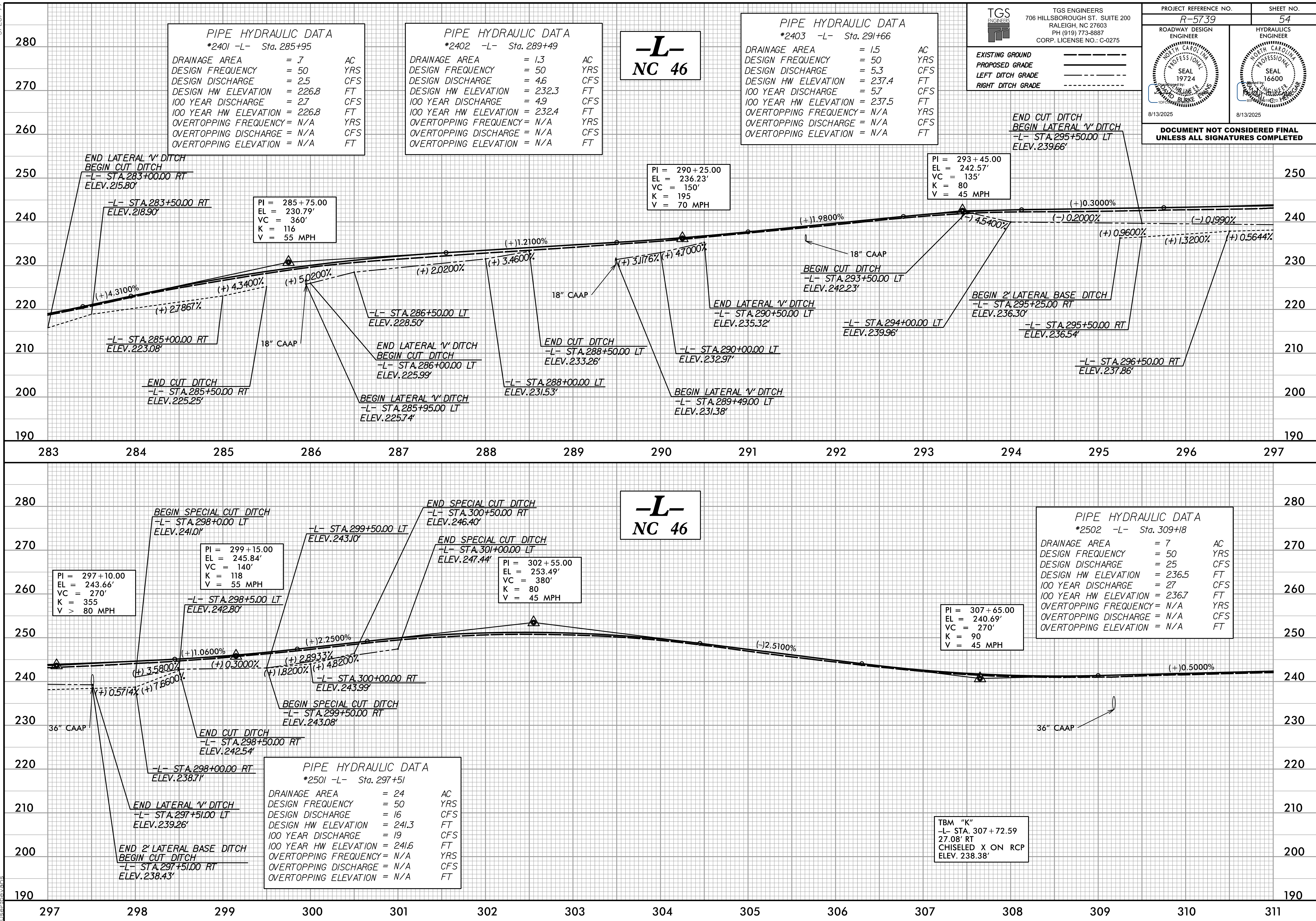
5/28/2025

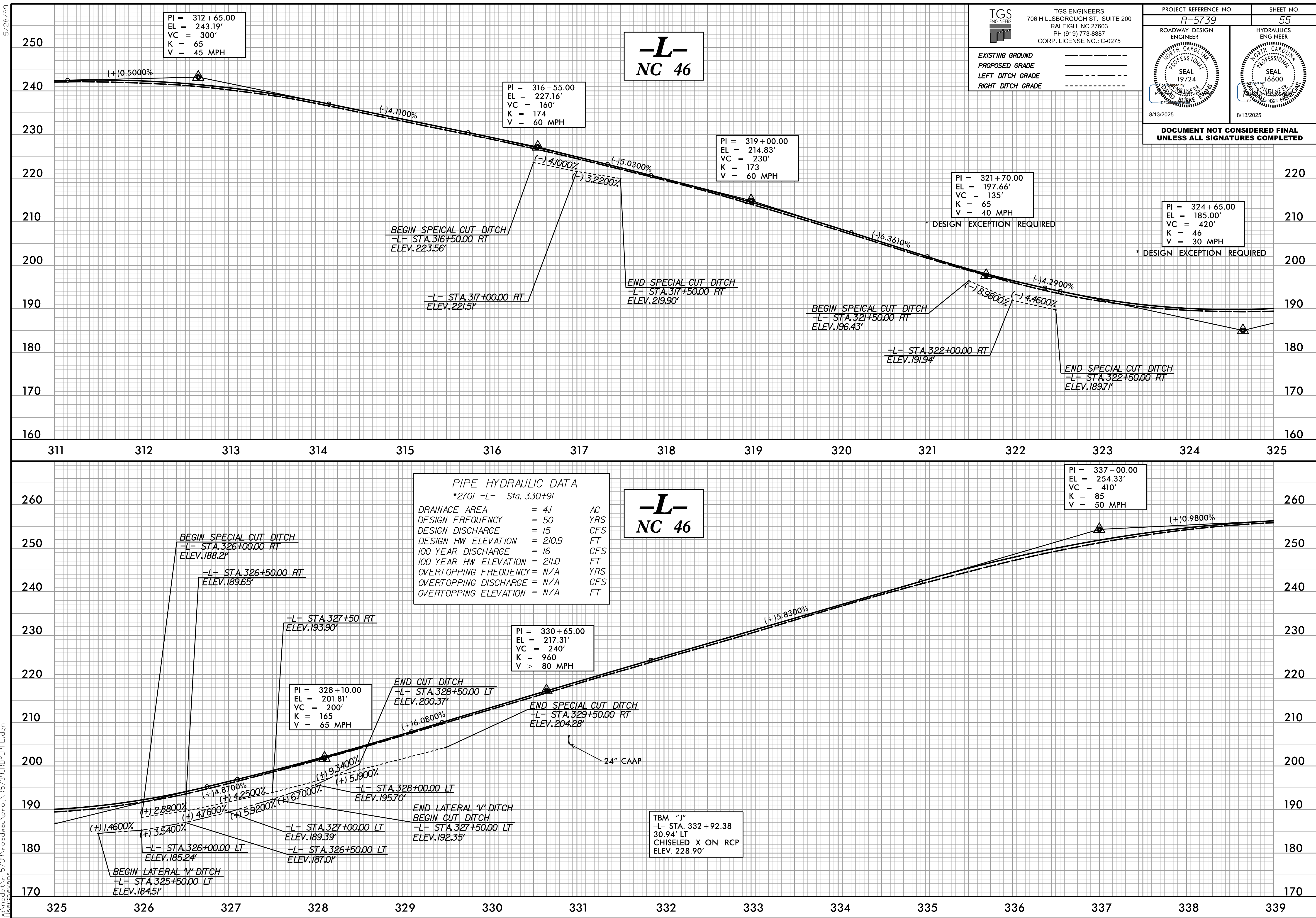
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User: jlvans





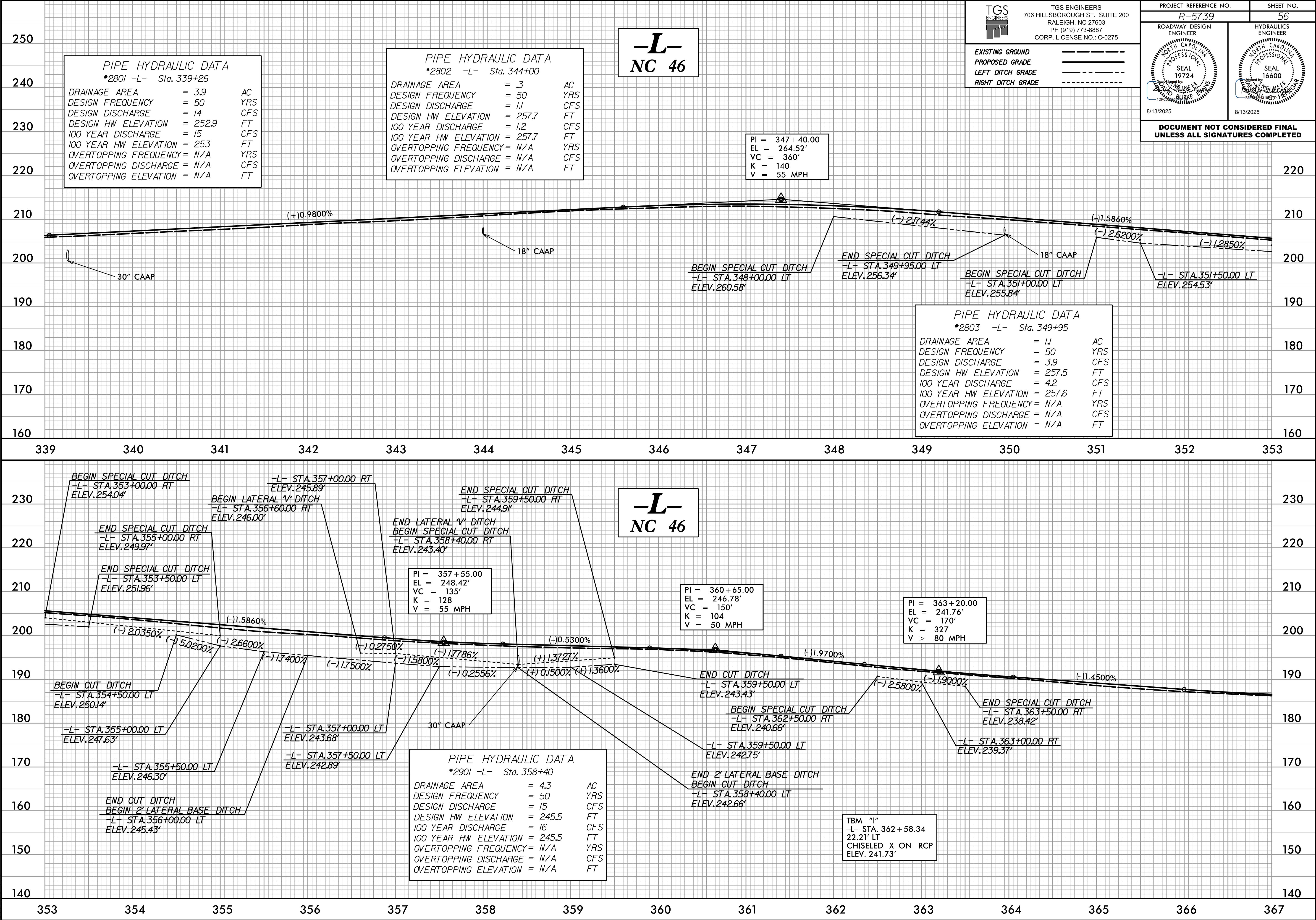






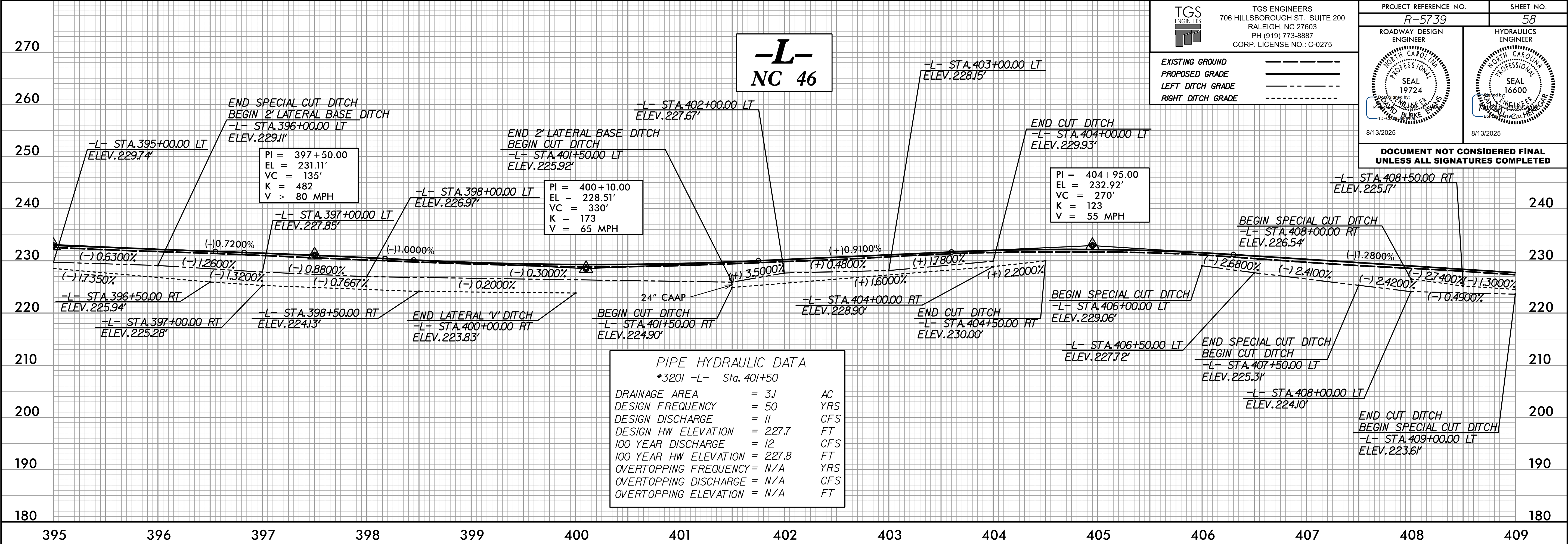
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User: jlvans





5/28/2025
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User: jlvans



TGS ENGINEERS
706 HILLSBOROUGH ST. SUITE 200
RALEIGH, NC 27603
PH (919) 773-8887
CORP. LICENSE NO.: C-0275

EXISTING GROUND
PROPOSED GRADE
LEFT DITCH GRADE
RIGHT DITCH GRADE

PROJECT REFERENCE NO.

R-5739

SHEET NO.

58

ROADWAY DESIGN
ENGINEER

SEAL
19724

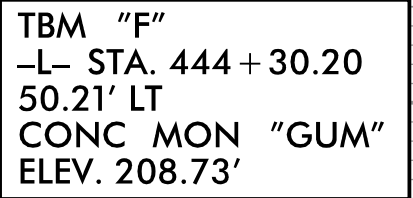
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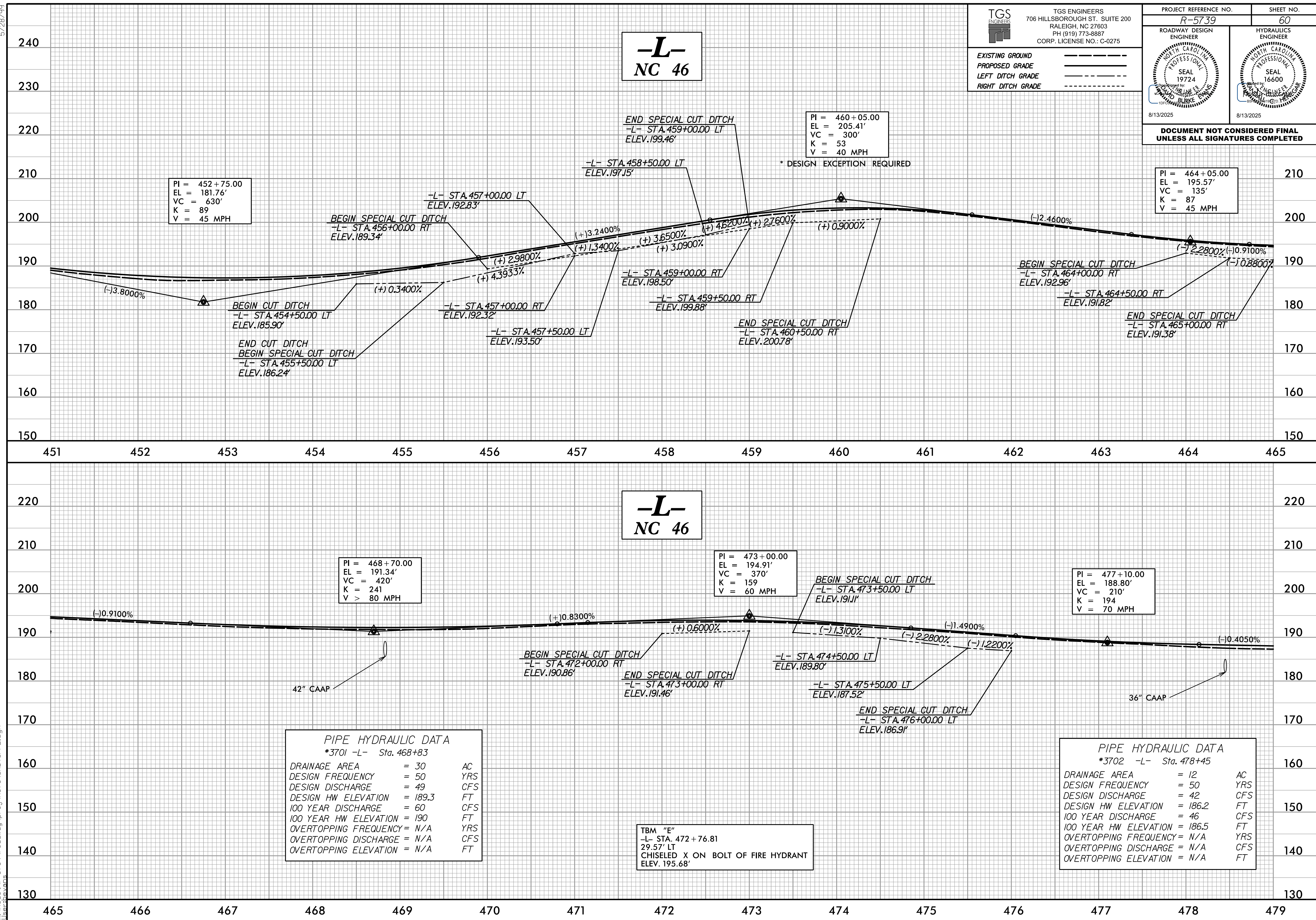
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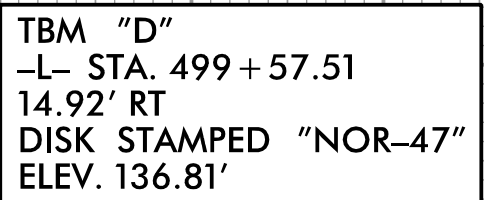
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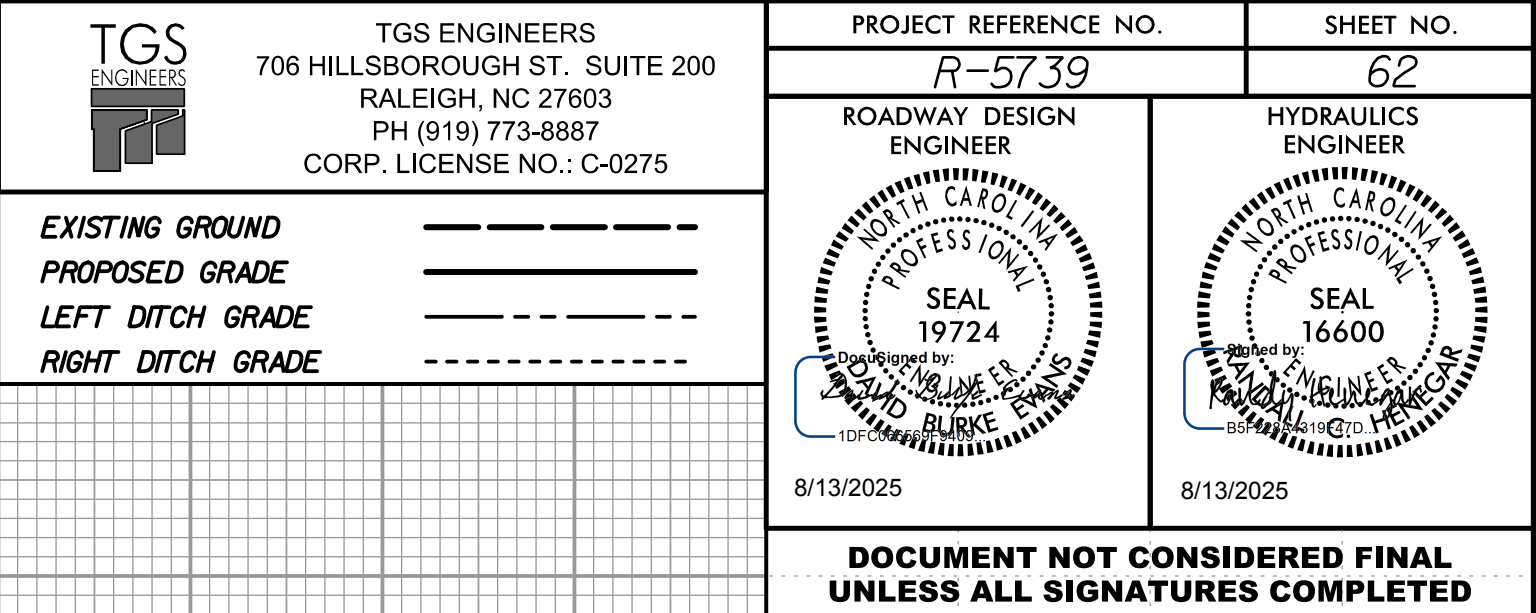
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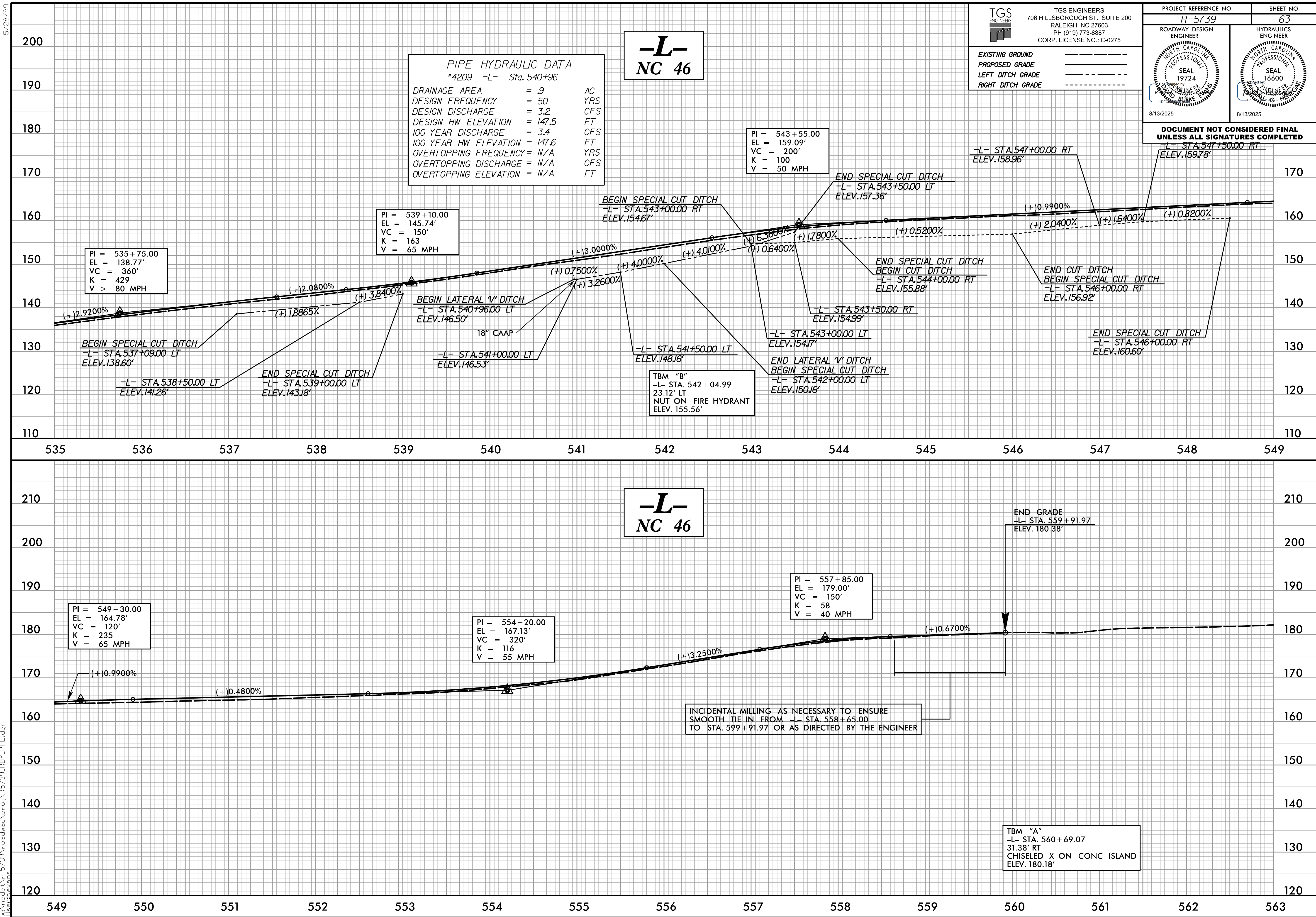
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED











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