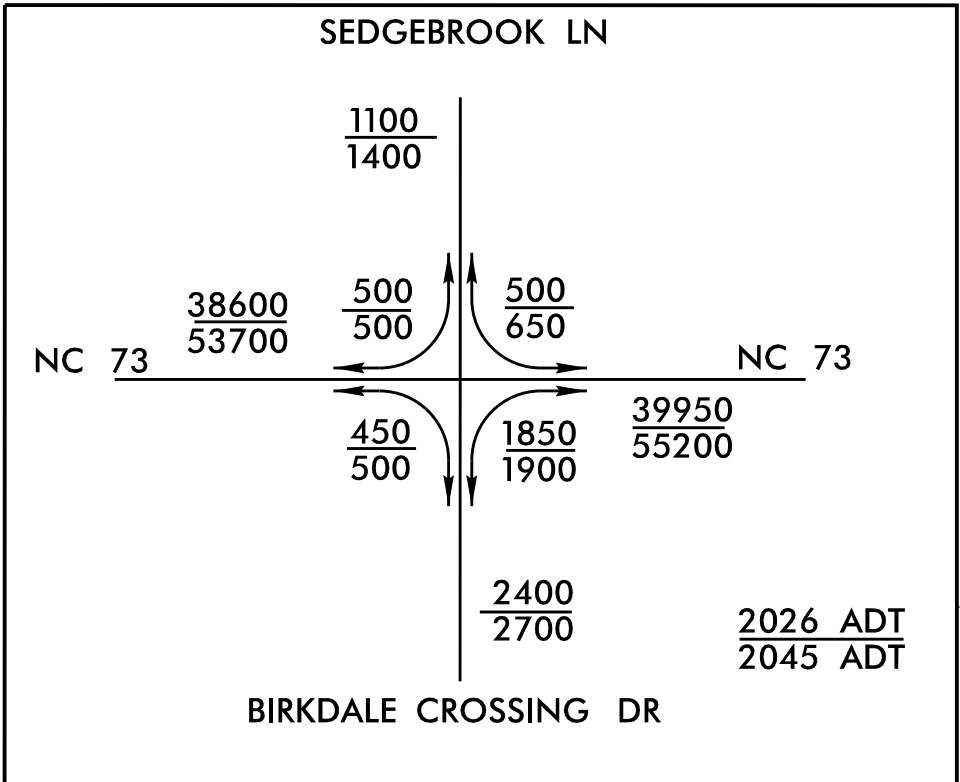
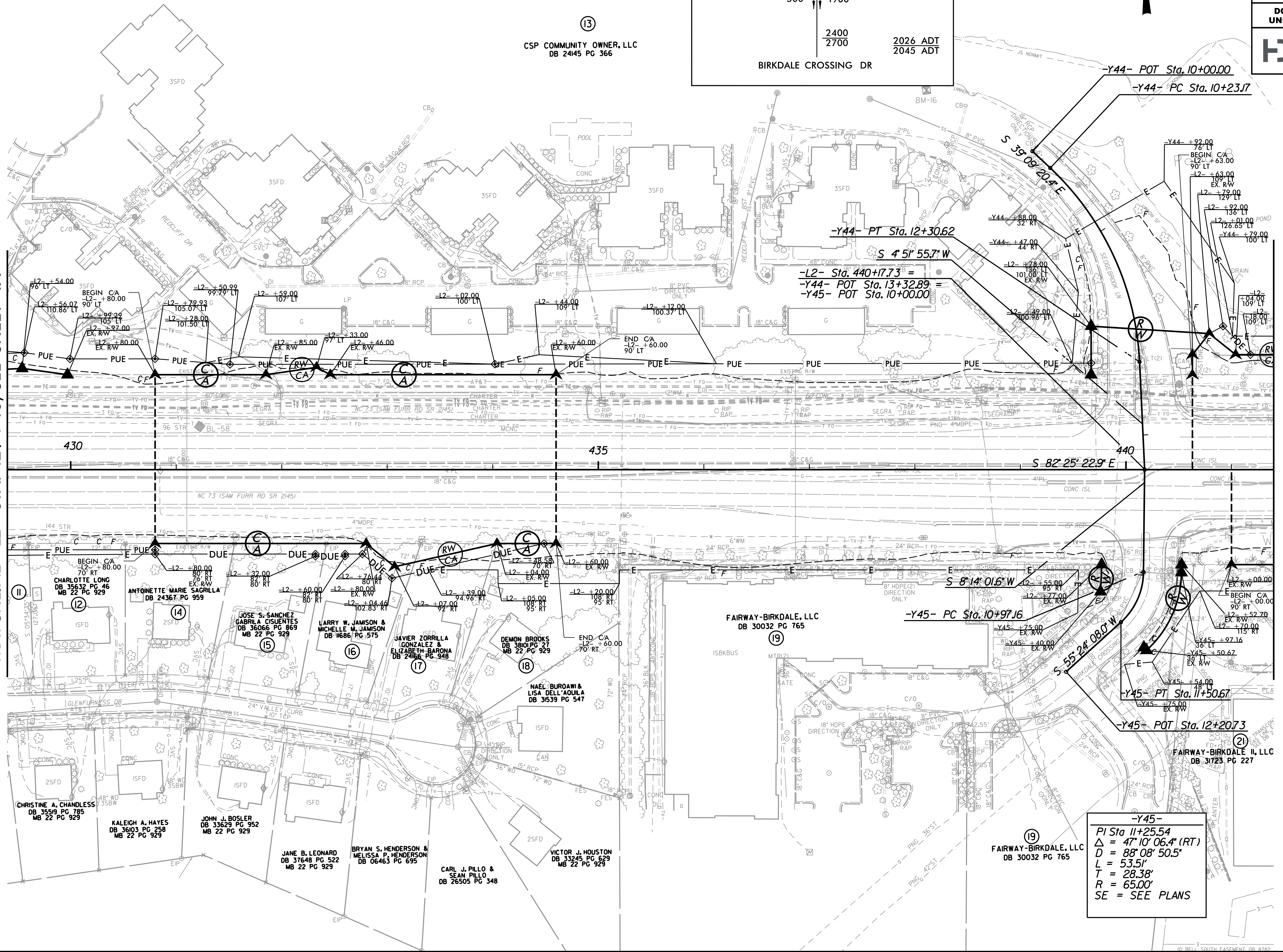


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USER: JBOND
FILE: \

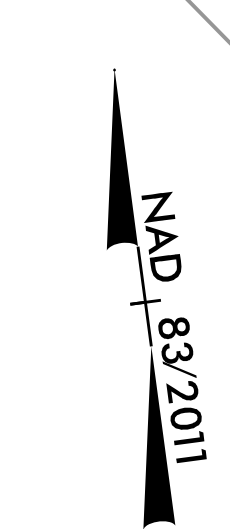
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DATE: 6/10/2026

MATCHLINE -L2- STA. 429 + 40, SEE SHEET 4A



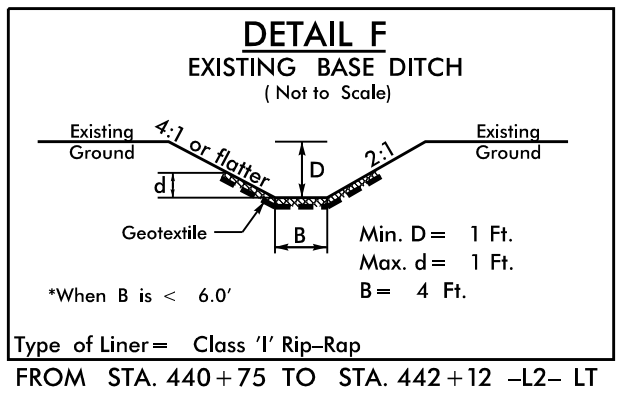
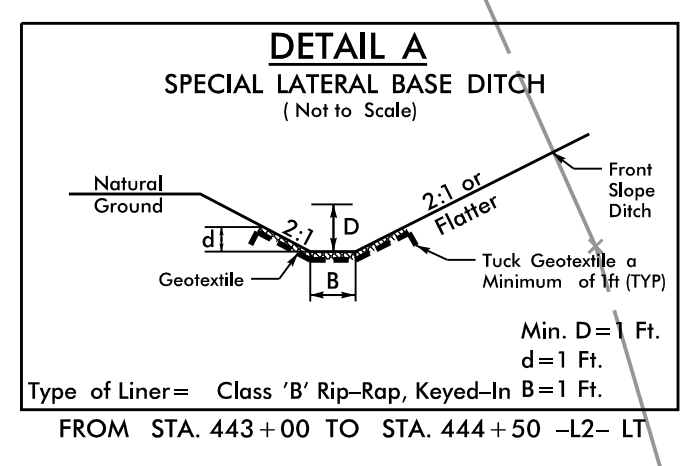
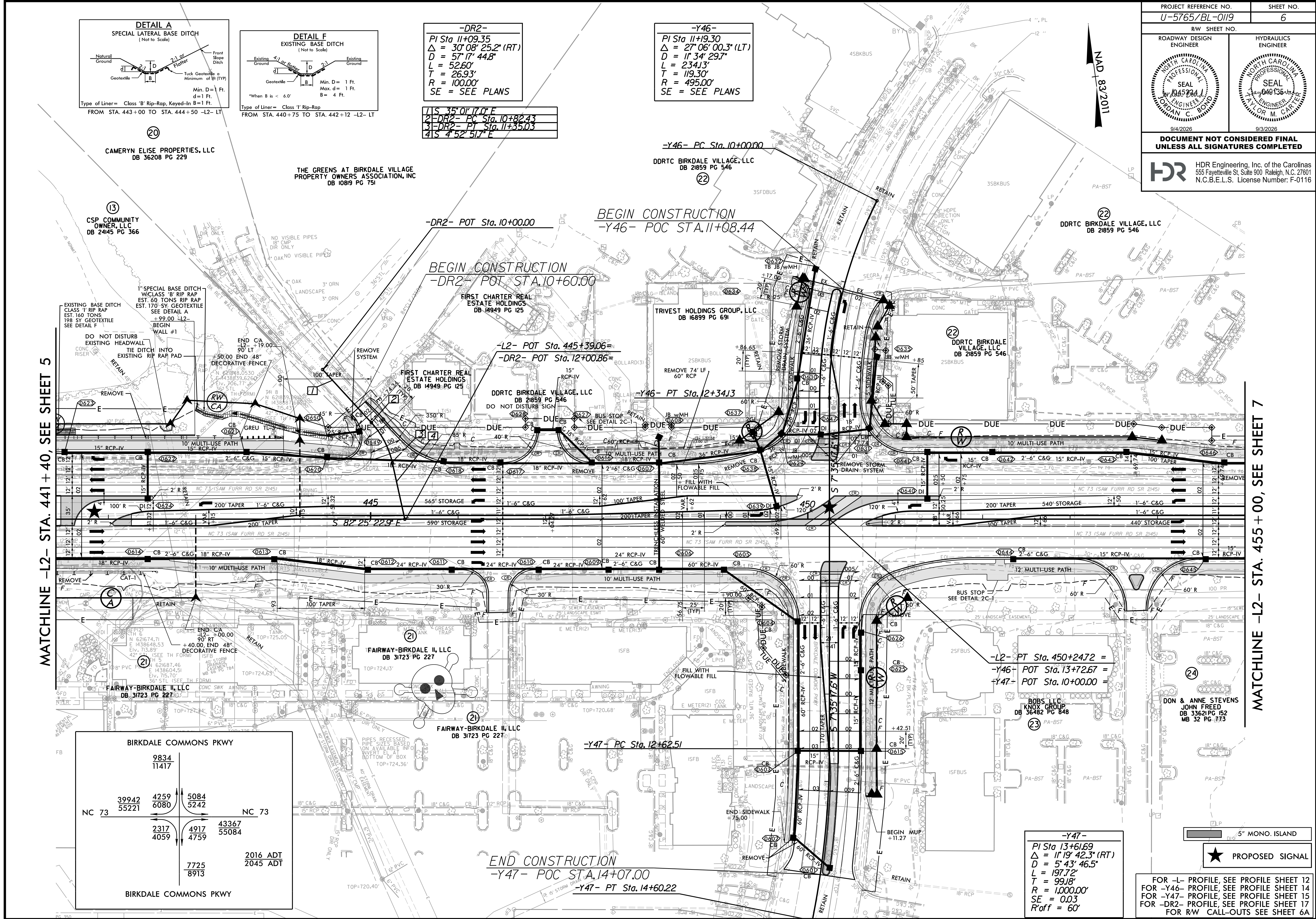
-Y44-
PI Sta 11+32.32
 $\Delta = 44^{\circ} 01' 16.4''$ (RT)
 $D = 21^{\circ} 13' 14.4''$
 $L = 207.44'$
 $T = 109.15'$
 $R = 270.00'$
 $SE = 0.03$
 $R_{off} = 60'$



PROJECT REFERENCE NO. U-5765/BL-0119		SHEET NO. 5A	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
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MATCHLINE -L2- STA. 441 + 40, SEE SHEET 6A

-Y45-
PI Sta 11+25.54
 $\Delta = 47^{\circ} 10' 06.4''$ (RT)
 $D = 88^{\circ} 08' 50.5''$
 $L = 53.51'$
 $T = 28.38'$
 $R = 65.00'$
 $SE = SEE PLANS$



-DR2-
PI Sta 11+09.35
 $\Delta = 30' 08' 25.2''$ (RT)
 $D = 57' 17' 44.8''$
 $L = 52.60'$
 $T = 26.93'$
 $R = 100.00'$
SE = SEE PLANS

-Y46-
PI Sta 11+19.30
 $\Delta = 27' 06' 00.3''$ (LT)
 $D = 1' 34' 29.7''$
 $L = 234.13'$
 $T = 119.30'$
 $R = 495.00'$
SE = SEE PLANS

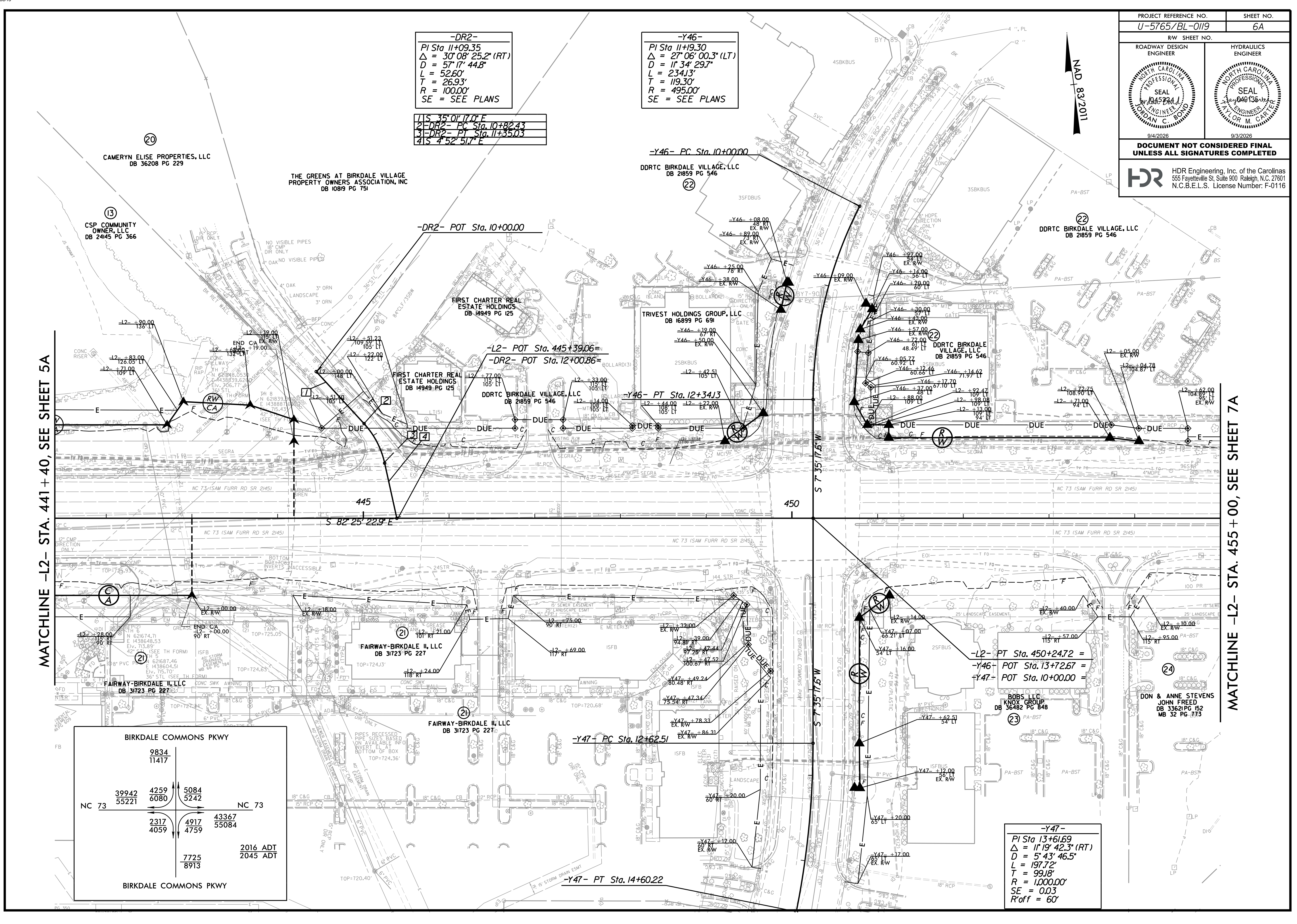
1/1 S 35° 01' 17.0" E
2-DR2- PC Sta. 10+82.43
3-DR2- PT Sta. 11+35.03
4/1 S 45° 52' 51.7" E

PROJECT REFERENCE NO. U-5765/BL-0119		SHEET NO. 6	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		NORTH CAROLINA PROFESSIONAL SEAL 9/4/2026	
NORTH CAROLINA PROFESSIONAL SEAL 9/4/2026		NORTH CAROLINA PROFESSIONAL SEAL 9/3/2026	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
HDR Engineering, Inc. of the Carolinas 555 Fayetteville St. Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116			

BIRKDALE COMMONS PKWY					
		9834 11417			
NC 73	39942 55221	4259 6080	5084 5242	NC 73	
		2317 4059	4917 4759	43367 55084	
		7725 8913			
				2016 ADT 2045 ADT	
BIRKDALE COMMONS PKWY					

-Y47-
PI Sta 13+61.69
 $\Delta = 11' 19' 42.3''$ (RT)
 $D = 5' 43' 46.5''$
 $L = 197.72'$
 $T = 99.18'$
 $R = 1,000.00'$
 $SE = 0.03$
 $R'off = 60'$

FOR -L- PROFILE, SEE PROFILE SHEET 12
FOR -Y46- PROFILE, SEE PROFILE SHEET 14
FOR -Y47- PROFILE, SEE PROFILE SHEET 15
FOR -DR2- PROFILE, SEE PROFILE SHEET 17
FOR RW CALL-OUTS SEE SHEET 6A



MATCHLINE -L2- STA. 441+40, SEE SHEET 5A

MATCHLINE -L2- STA. 455+00, SEE SHEET 7A

-DR2-
PI Sta 11+09.35
 $\Delta = 30' 08' 25.2''$ (RT)
 $D = 1' 34' 44.8''$
 $L = 52.60'$
 $T = 26.93'$
 $R = 100.00'$
SE = SEE PLANS

-Y46-
PI Sta 11+19.30
 $\Delta = 27' 06' 00.3''$ (LT)
 $D = 1' 34' 29.7''$
 $L = 234.13'$
 $T = 119.30'$
 $R = 495.00'$
SE = SEE PLANS

1 S 35° 01' 17.0" E
2 -DR2- PC Sta. 10+82.43
3 -DR2- PT Sta. 11+35.03
4 S 4° 52' 51.7" E

-Y46- PC Sta. 10+00.00

-L2- POT Sta. 445+39.06=
-DR2- POT Sta. 12+00.86=

-L2- PT Sta. 450+247.2 =
-Y46- POT Sta. 13+72.67 =
-Y47- POT Sta. 10+00.00 =

-Y47-
PI Sta 13+61.69
 $\Delta = 11' 19' 42.3''$ (RT)
 $D = 5' 43' 46.5''$
 $L = 197.72'$
 $T = 99.18'$
 $R = 1,000.00'$
 $SE = 0.03$
 $R'off = 60'$

BIRKDALE COMMONS PKWY								
NC 73	39942	4259 6080	5084	43367 55084	2016 ADT 2045 ADT			
	55221		5242					
			4917					
			4059					
BIRKDALE COMMONS PKWY								
	2317		7725 8913					
	4059							

LINDHOLM DR	
11650	2026 ADT
14050	2045 ADT
NC 73	
43400	1650
55100	1750
10000	
12300	
NC 73	
51700	
65700	

-Y48- POT Sta. 10+00.00

BEGIN CONSTRUCTION
-Y48- PC STA. 11+90.42

-Y48-
PI Sta 12+64.08
 $\Delta = 32^\circ 50' 08.0''$ (RT)
 $D = 22^\circ 55' 05.9''$
 $L = 143.27'$
 $T = 73.66'$
 $R = 250.00'$
SE = SEE PLANS

-L2-
PI Sta 468+12.37
 $\Delta = 1^\circ 39' 22.5''$ (LT)
 $D = 0^\circ 21' 29.2''$
 $L = 462.51'$
 $T = 231.27'$
 $R = 16,000.00'$
SE = N C

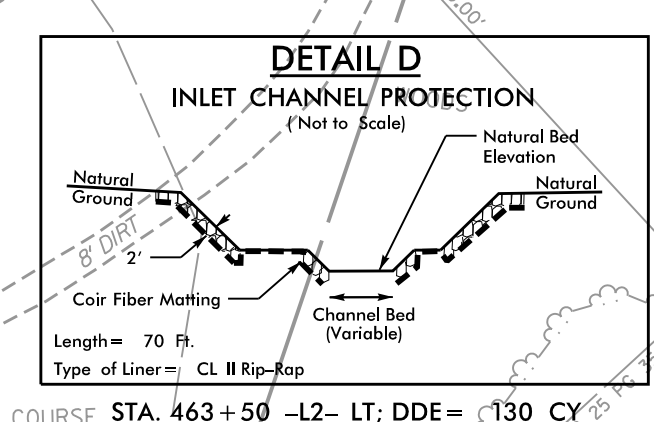
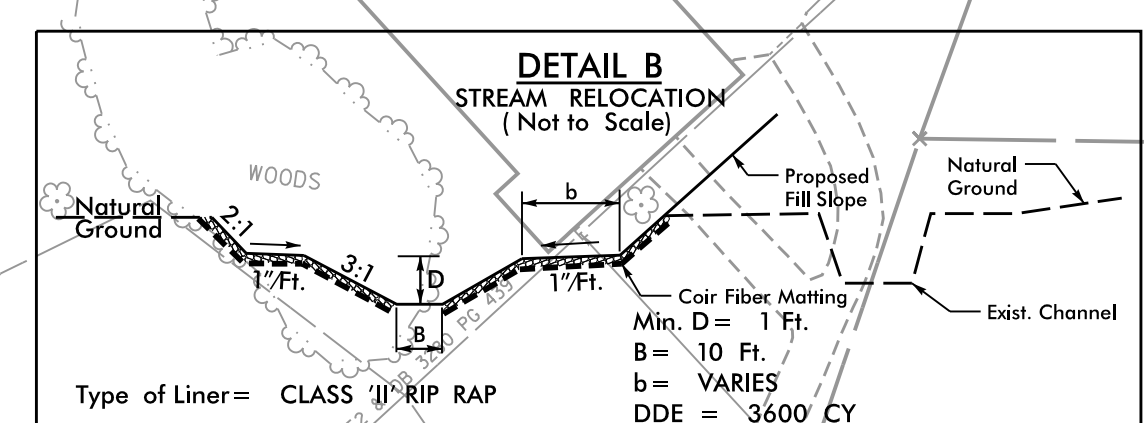
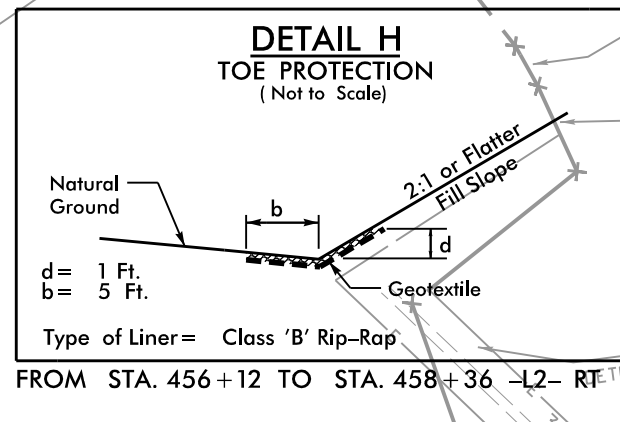
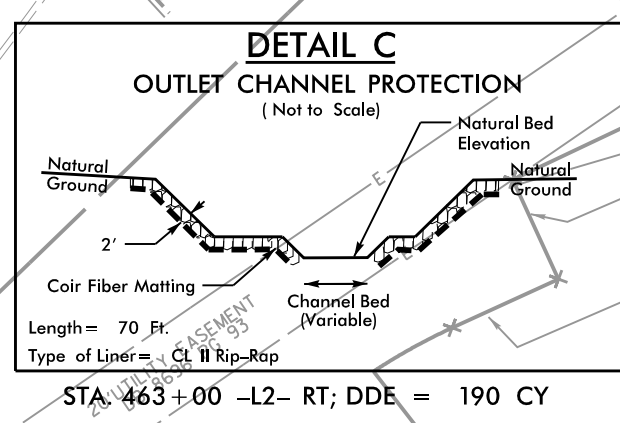
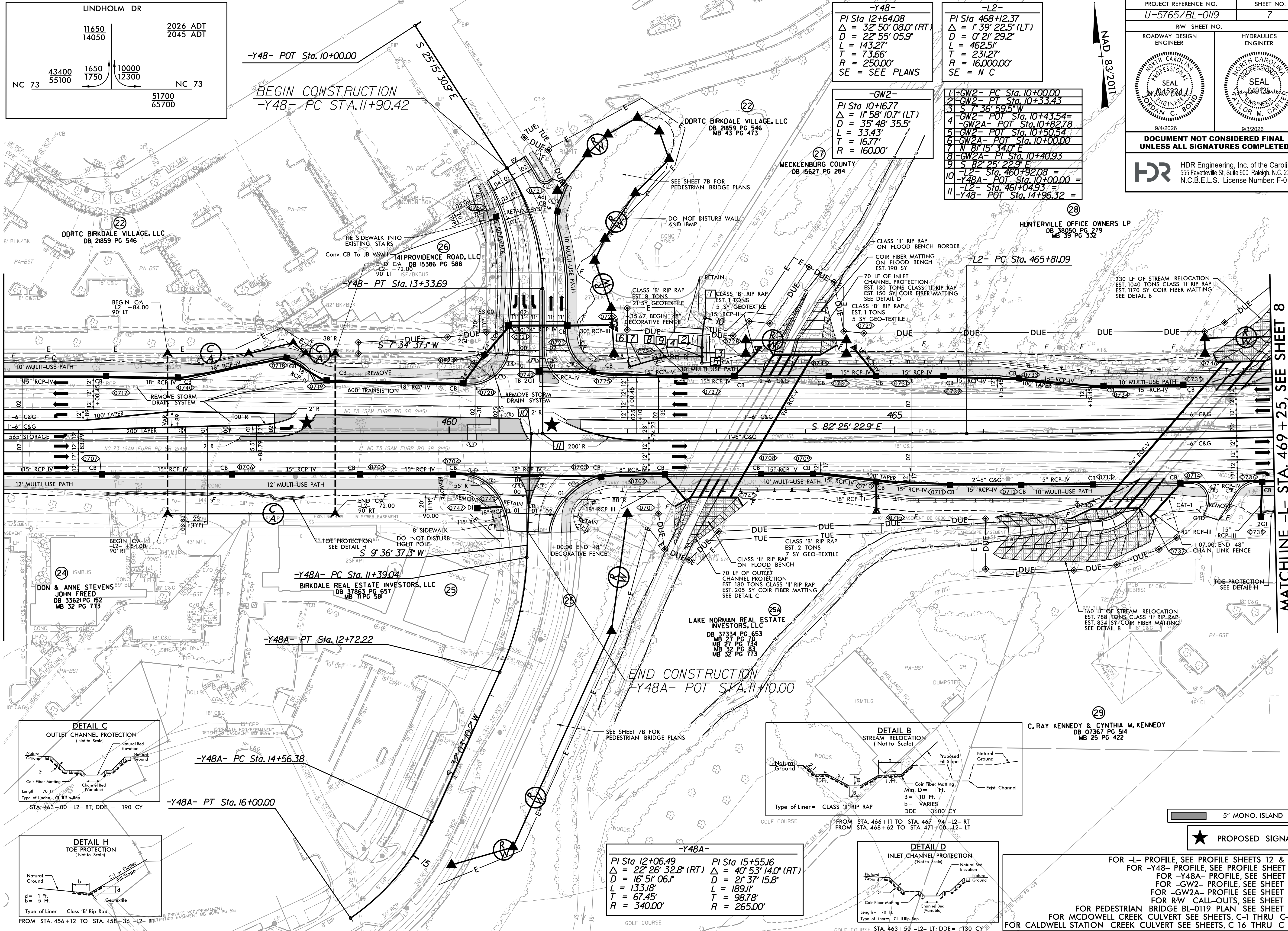
-GW2-
PI Sta 10+16.77
 $\Delta = 1^\circ 58' 10.7''$ (LT)
 $D = 35^\circ 48' 35.5''$
 $L = 33.43'$
 $T = 16.77'$
 $R = 160.00'$

1-GW2- PC Sta. 10+00.00
2-GW2- PT Sta. 10+33.43
3-S 7 34 37.1 W
4-GW2A- POT Sta. 10+43.54
5-GW2A- POT Sta. 10+82.78
6-GW2- POT Sta. 10+50.54
7-N 81 15 34.0 E
8-GW2A- PI Sta. 10+40.93
9-S 82 25 22.9 E
10-L2- Sta. 460+92.08 =
-Y48A- POT Sta. 10+00.00 =
11-L2- Sta. 461+04.93 =
-Y48- POT Sta. 14+96.32 =

PROJECT REFERENCE NO. U-5765/BL-0119	SHEET NO. 7
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
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MATCHLINE -L2- STA. 455 + 00, SEE SHEET 6

MATCHLINE -L- STA. 469 + 25, SEE SHEET 8



-Y48A-
PI Sta 12+06.49
 $\Delta = 22^\circ 26' 32.8''$ (RT)
 $D = 16^\circ 51' 06.1''$
 $L = 133.18'$
 $T = 67.45'$
 $R = 340.00'$

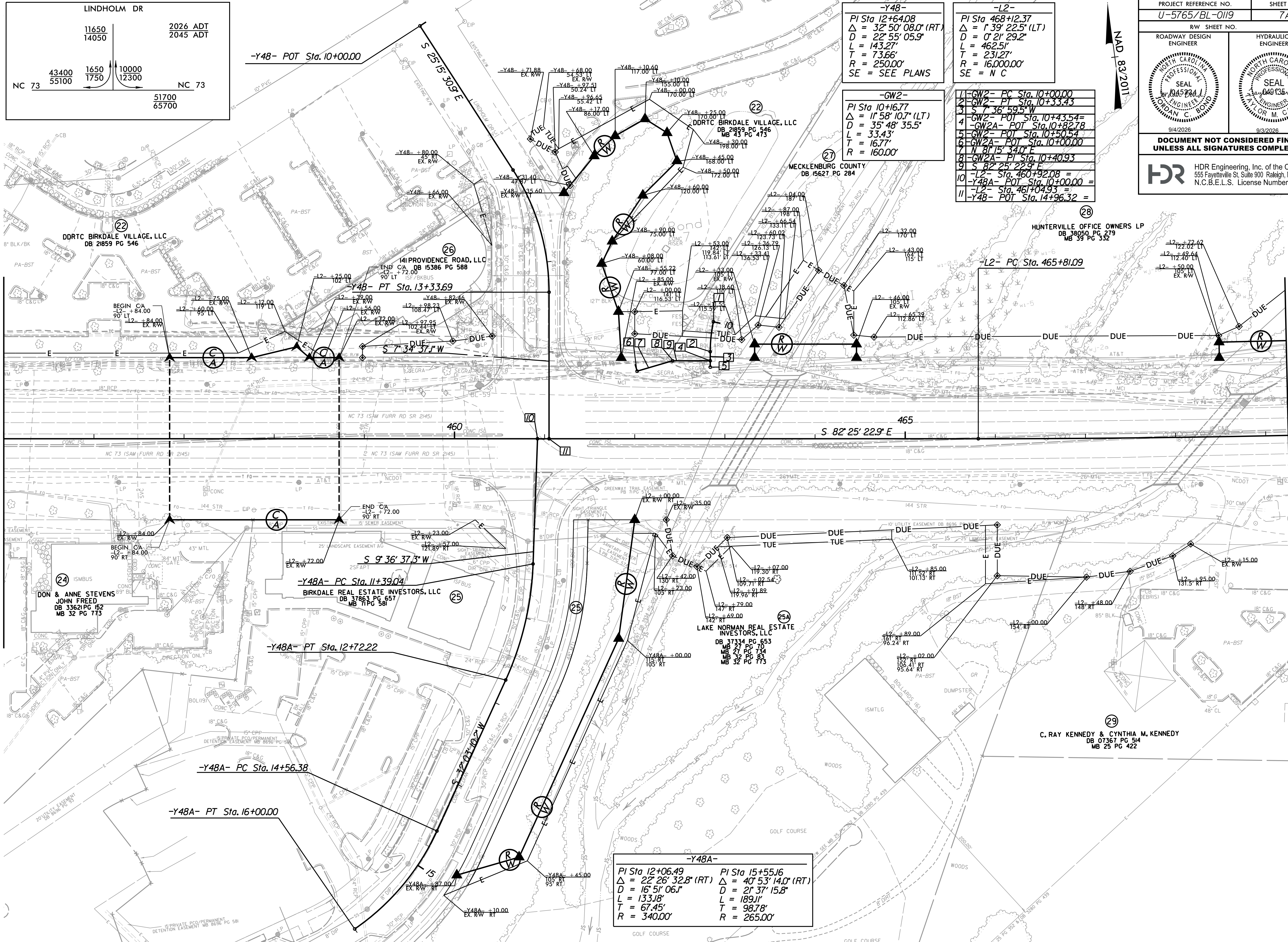
PI Sta 15+55.16
 $\Delta = 40^\circ 53' 14.0''$ (RT)
 $D = 2^\circ 37' 15.8''$
 $L = 189.11'$
 $T = 98.78'$
 $R = 265.00'$

C. RAY KENNEDY & CYNTHIA M. KENNEDY
DB 07367 PG 514
MB 25 PG 422

FOR -L- PROFILE, SEE PROFILE SHEETS 12 & 13
FOR -Y48- PROFILE, SEE PROFILE SHEET 15
FOR -Y48A- PROFILE, SEE SHEET 15
FOR -GW2- PROFILE, SEE SHEET 20
FOR -GW2A- PROFILE, SEE SHEET 20
FOR RW CALL-OUTS, SEE SHEET 7A
FOR PEDESTRIAN BRIDGE BL-0119 PLAN, SEE SHEET 7B
FOR MCDOWELL CREEK CULVERT SEE SHEETS, C-1 THRU C-15
FOR CALDWELL STATION CREEK CULVERT SEE SHEETS, C-16 THRU C-25

LINDHOLM DR			
		11650	2026 ADT
		14050	2045 ADT
NC 73	43400	1650	10000
	55100	1750	12300
		51700	
		65700	
		NC 73	

MATCHLINE -L2- STA. 455+00, SEE SHEET 6A



-Y48-
PI Sta 12+64.08
Δ = 32° 50' 08.0" (RT)
D = 22° 55' 05.9"
L = 143.27'
T = 73.66'
R = 250.00'
SE = SEE PLANS

-L2-
PI Sta 468+12.37
Δ = 1° 39' 22.5" (LT)
D = 0° 21' 29.2"
L = 462.51'
T = 231.27'
R = 16,000.00'
SE = N C

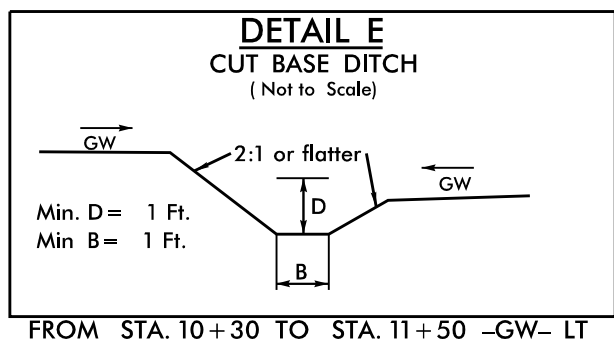
-GW2-
PI Sta 10+16.77
Δ = 1° 58' 10.7" (LT)
D = 35° 48' 35.5"
L = 33.43'
T = 16.77'
R = 160.00'

1-GW2- PC Sta. 10+00.00	2-GW2- PT Sta. 10+33.43
3-S 7° 36' 59.5" W	4-GW2A- POT Sta. 10+43.54
5-GW2A- POT Sta. 10+82.78	6-GW2- POT Sta. 10+50.54
7-N 81° 15' 34.0" E	8-GW2A- PI Sta. 10+40.93
9-S 82° 25' 22.9" E	10-L2- Sta. 460+92.08 =
11-L2- Sta. 461+04.93 =	12-L2- Sta. 461+04.93 =

-Y48A-
PI Sta 12+06.49
Δ = 22° 26' 32.8" (RT)
D = 16° 51' 06.1"
L = 133.18'
T = 67.45'
R = 340.00'
PI Sta 15+55.16
Δ = 40° 53' 14.0" (RT)
D = 2° 37' 15.8"
L = 189.11'
T = 98.78'
R = 265.00'

PROJECT REFERENCE NO. U-5765/BL-0119		SHEET NO. 7A	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
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MATCHLINE -L- STA. 469+25, SEE SHEET 8A



BEGIN TIP PROJECT BL-0119
-Y48- POC STA.13+02.51, 37.76' LT=
-GW- PC STA.10+05.56

BEGIN BOARDWALK
-GW- POC Sta.12+52.00
BEGIN APPROACH SLAB
-GW- POC Sta.12+41.00
-GW- PC Sta.12+24.00

-GW-		
PI Sta 10+36.77	PI Sta 10+82.53	PI Sta 11+59.03
$\Delta = 34^{\circ} 02' 22.8" (LT)$	$\Delta = 24^{\circ} 46' 01.8" (RT)$	$\Delta = 90^{\circ} 14' 30.1" (LT)$
$D = 57^{\circ} 17' 44.8"$	$D = 71^{\circ} 37' 11.0"$	$D = 286^{\circ} 28' 44.0"$
$L = 59.41'$	$L = 34.58'$	$L = 31.50'$
$T = 30.61'$	$T = 17.57'$	$T = 20.08'$
$R = 100.00'$	$R = 80.00'$	$R = 20.00'$
PI Sta 11+90.77	PI Sta 12+74.20	
$\Delta = 90^{\circ} 55' 02.3" (LT)$	$\Delta = 49^{\circ} 03' 33.9" (LT)$	
$D = 286^{\circ} 28' 44.0"$	$D = 52^{\circ} 05' 13.5"$	
$L = 31.74'$	$L = 94.19'$	
$T = 20.32'$	$T = 50.20'$	
$R = 20.00'$	$R = 110.00'$	

1 -GW- POT Sta. 10+00.00
2 -GW- POT Sta. 10+00.00
3 -GW- POT Sta. 10+18.31
4 -GW- POT Sta. 10+18.31

PROJECT REFERENCE NO. U-5765/BL-0119		SHEET NO. 7B	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		SEAL	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
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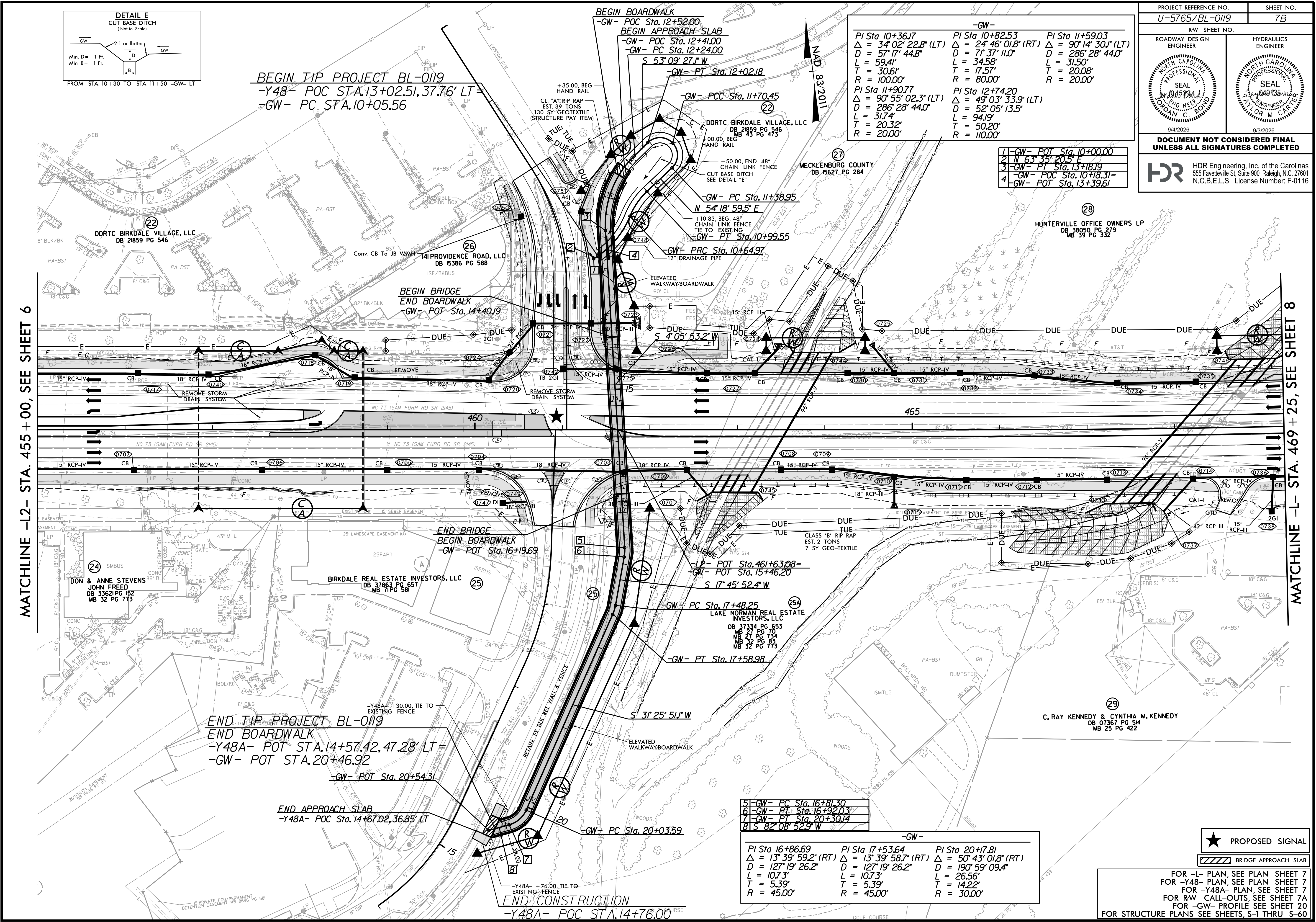
MATCHLINE -L2- STA. 455 + 00, SEE SHEET 6

MATCHLINE -L- STA. 469 + 25, SEE SHEET 8

REVISIONS

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USER: JBOND
DATE: 7/23/2026
TIME: 1:19:17 AM

PLOT DRIVER: NCDOT.pdf_color_eng.50.pht
USER: JBOND
DATE: 7/23/2026
TIME: 1:19:17 AM



END TIP PROJECT BL-0119
END BOARDWALK
-Y48A- POT STA.14+57.42, 47.28' LT=
-GW- POT STA.20+46.92

END APPROACH SLAB
-Y48A- POC Sta.14+67.02, 36.85' LT

END CONSTRUCTION
-Y48A- POC STA.14+76.00

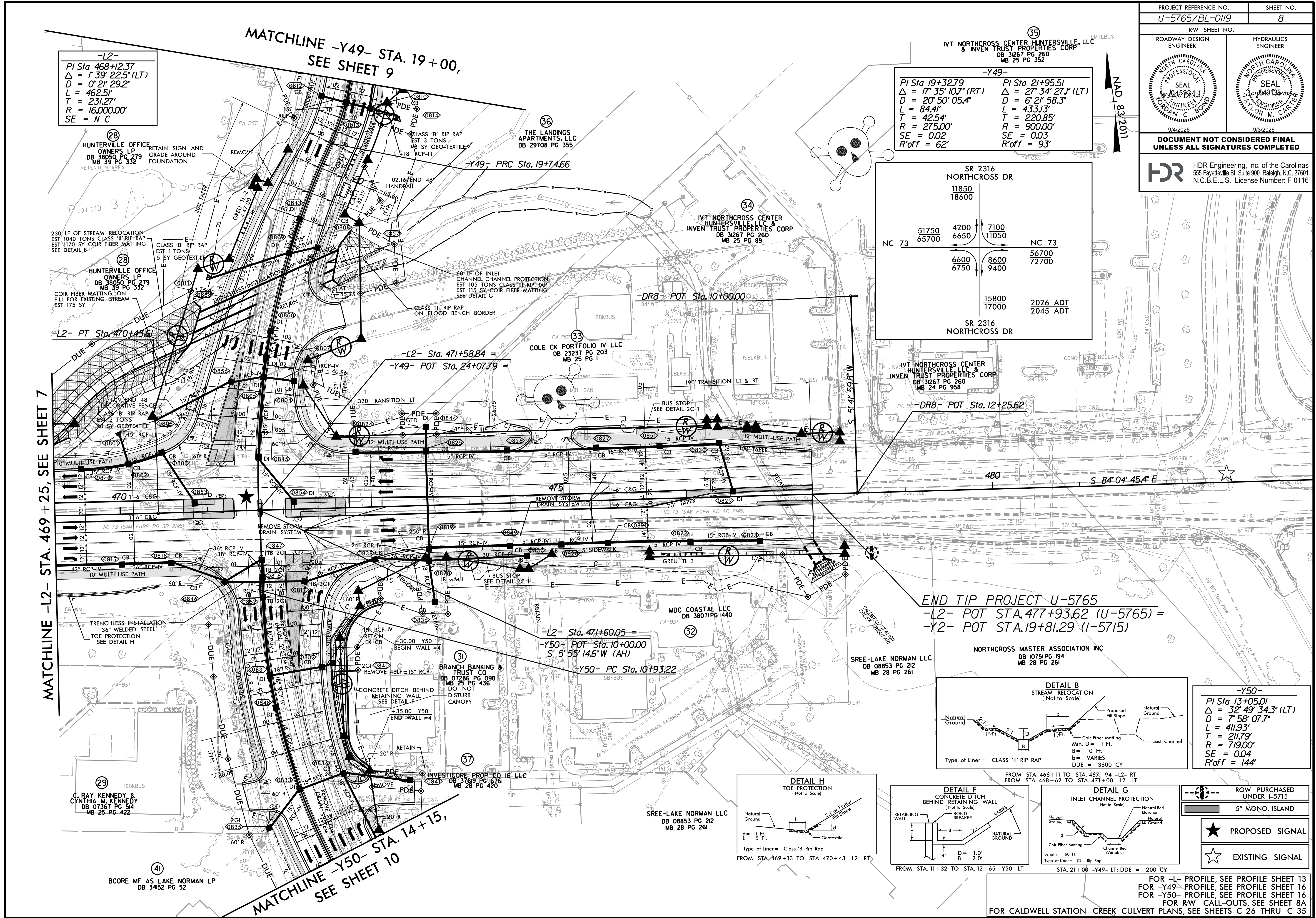
5 -GW- PC Sta.16+81.30
6 -GW- PT Sta.16+92.03
7 -GW- PT Sta.20+30.14
8 S 82° 08' 52.9" W

-GW-		
PI Sta 16+86.69	PI Sta 17+53.64	PI Sta 20+77.81
$\Delta = 13^{\circ} 39' 59.2" (RT)$	$\Delta = 13^{\circ} 39' 58.7" (RT)$	$\Delta = 50^{\circ} 43' 01.8" (RT)$
$D = 127^{\circ} 19' 26.2"$	$D = 127^{\circ} 19' 26.2"$	$D = 190^{\circ} 59' 09.4"$
$L = 10.73'$	$L = 26.56'$	$L = 14.22'$
$T = 5.39'$	$T = 5.39'$	$T = 14.22'$
$R = 45.00'$	$R = 45.00'$	$R = 30.00'$

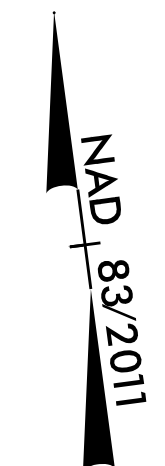
★ PROPOSED SIGNAL

▨ BRIDGE APPROACH SLAB

FOR -L- PLAN, SEE PLAN SHEET 7
FOR -Y48- PLAN, SEE PLAN SHEET 7
FOR -Y48A- PLAN, SEE SHEET 7
FOR R/W CALL-OUTS, SEE SHEET 7A
FOR -GW- PROFILE SEE SHEET 20
FOR STRUCTURE PLANS SEE SHEETS, S-1 THRU S-60

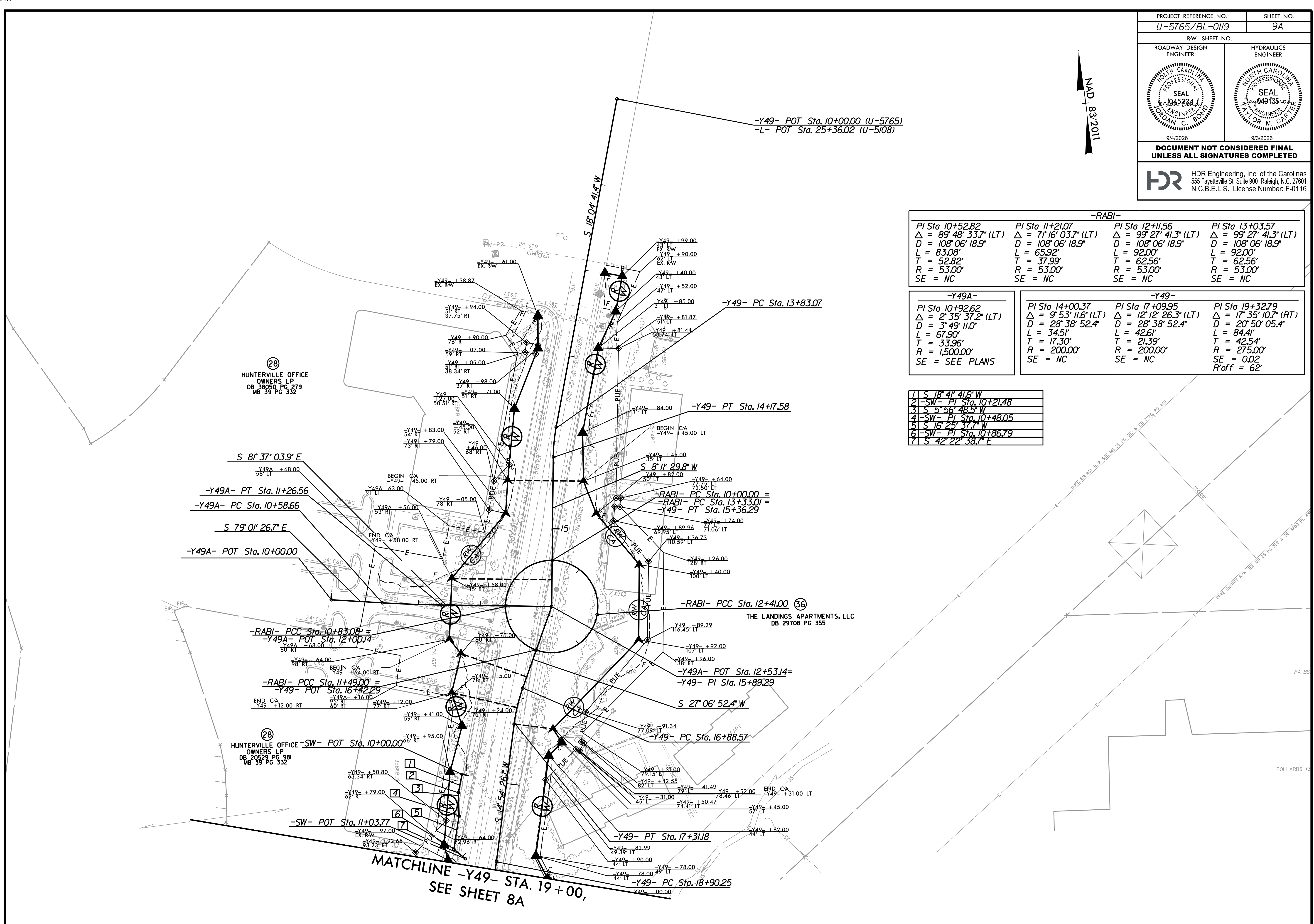


-Y50-
PI Sta 13+05.01
 $\Delta = 32^\circ 49' 34.3''$ (LT)
 $D = 7^\circ 58' 07.7''$
 $L = 411.93'$
 $T = 211.79'$
 $R = 719.00'$
 $SE = 0.04$
 $R'off = 144'$



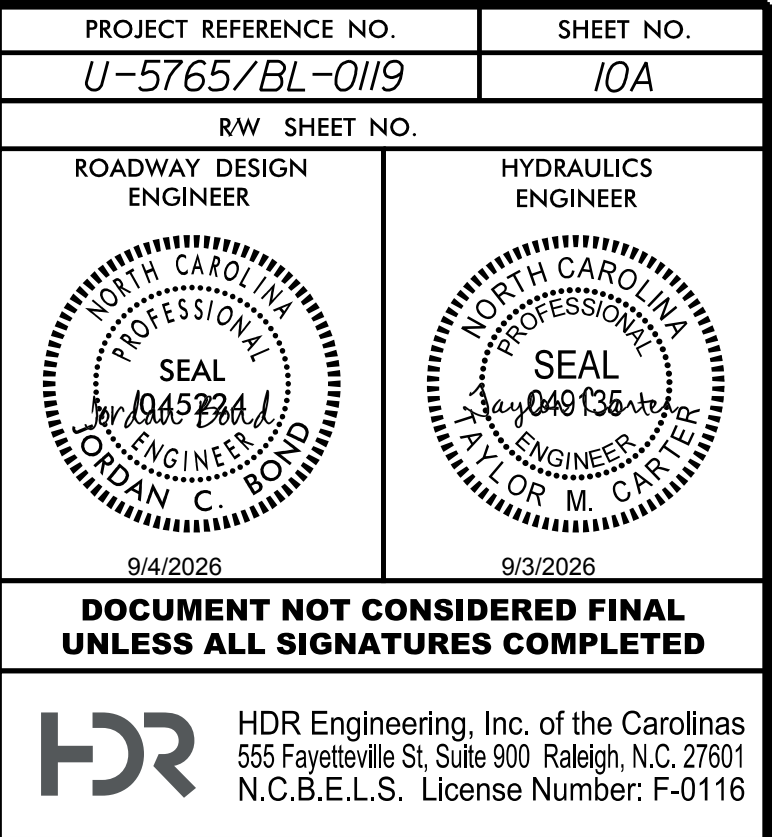
1	S 18° 41' 41.6" W
2	-SW- Pl Sta. 10+21.48
3	S 5° 56' 48.5" W
4	-SW- Pl Sta. 10+48.05
5	S 16° 25' 37.7" W
6	-SW- Pl Sta. 10+86.79
7	S 42° 22' 38.7" E

	5" MONO. ISLAND
FOR -Y49- PROFILE, SEE PROFILE SHEET 16	
FOR -Y49A- PROFILE, SEE PROFILE SHEET 17	
FOR -RAB1- PROFILE, SEE SHEET 18	
FOR -SW- PROFILE, SEE SHEET 20	
FOR RW CALL-OUTS SEE SHEET 9A	

PENTABLE: NCDOT_pshpfl.tbl
TIME: 3:02:05 PM

ig_50.plt
DATE: 6/10/2026

PLOT DRIVER: NCDOT_pdf_color_eng_50.plt
USER: JBOND DATE: 6/
FILE: \



5/28/2026



HDR Engineering, Inc. of the Carolinas

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N.C.B.E.L.S. License Number: F-0116

PROJECT REFERENCE NO.		SHEET NO.
U-5765/BL-0119		11
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
		
9/4/2026	9/3/2026	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		

BM15
TIE SPIKE SET IN 20" OAK
-L2- STA. 422+82.00, 310' LT
EL. 771.44'

BEGIN TIP U-5765
TIE TO R-5721B
-L2- STA. 421+00.00 (U-5765) =
-LS- STA. 421+00.00 (R-5721B)
EL = 765.48'

PI = 421+25.00
EL = 759.99'
K = 97
VC = 630'

LOW POINT
-L2- 422 + 56.73, EL. 764.21'

PI = 415+95.00
EL = 784.41'
K = 115
VC = 190'

-L2-

FOR -L2- PLAN, SEE PLAN SHEET 4

6/10/2026
U:\P\259\U5765_FDY_PFL.11.dgn
3:02 PM

-L2- STA. 425+04.00 =
-Y42- STA. 13+10.06
-L2- STA. 425+16.62 =
-Y43- STA. 10+00.00

PI = 431+25.00
EL = 778.89'
K = 159
VC = 990'

HIGH POINT
-L2- 429 + 29.64, EL. 772.37'

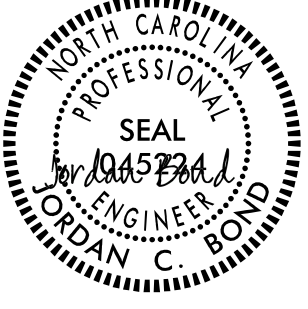
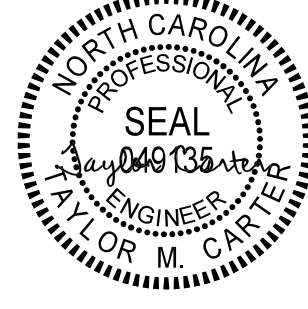
-L2-

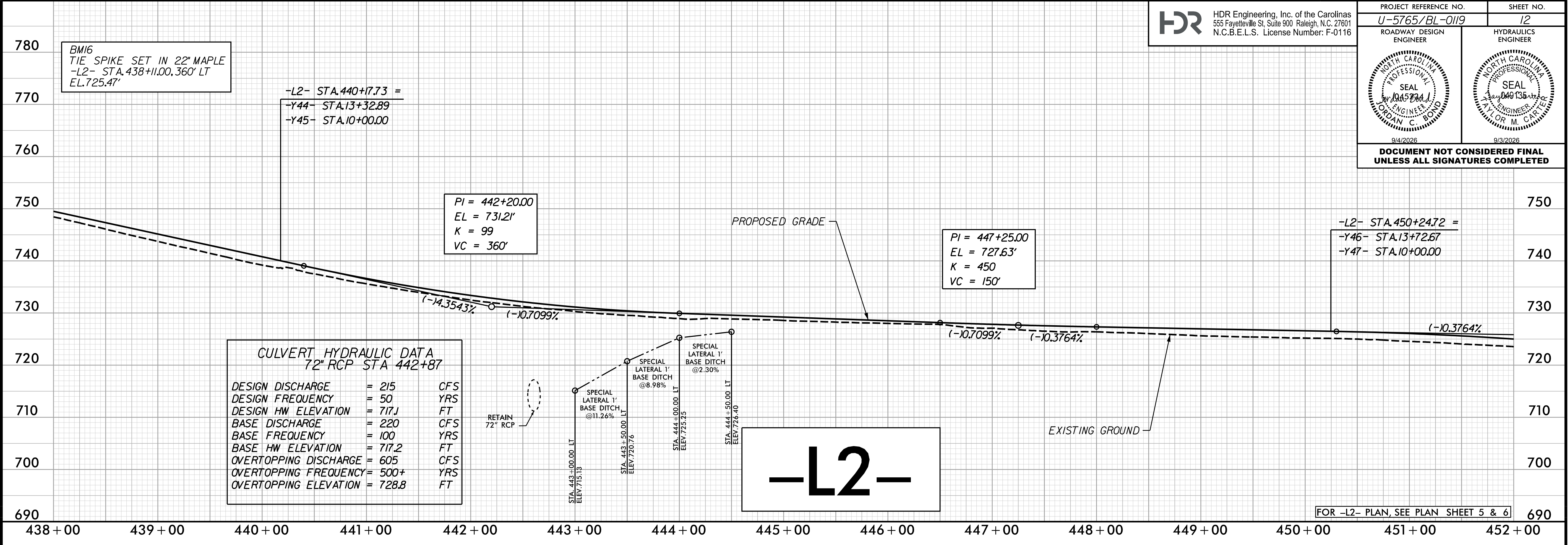
FOR -L2- PLAN, SEE PLAN SHEET 4 & 5

5/28/2026

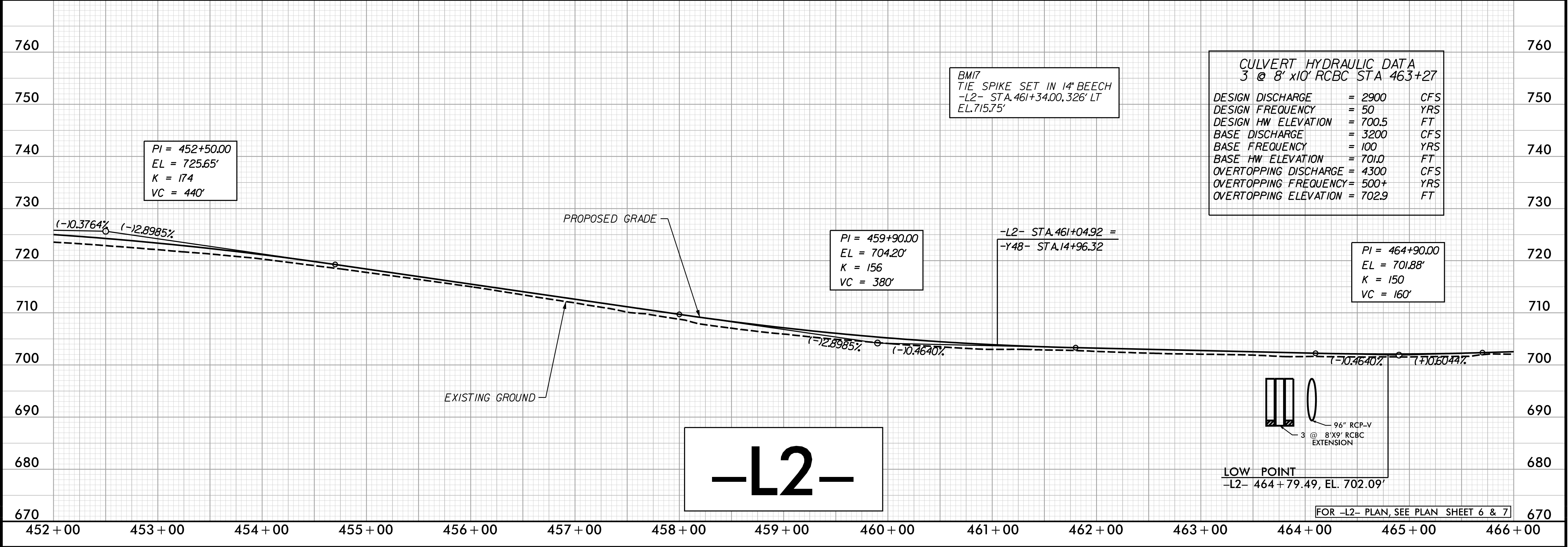


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555 Fayetteville St, Suite 900 Raleigh, N.C. 27601
N.C.B.E.L.S. License Number: F-0116

PROJECT REFERENCE NO.		SHEET NO.
U-5765/BL-0119		12
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
		
9/4/2026	9/3/2026	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		

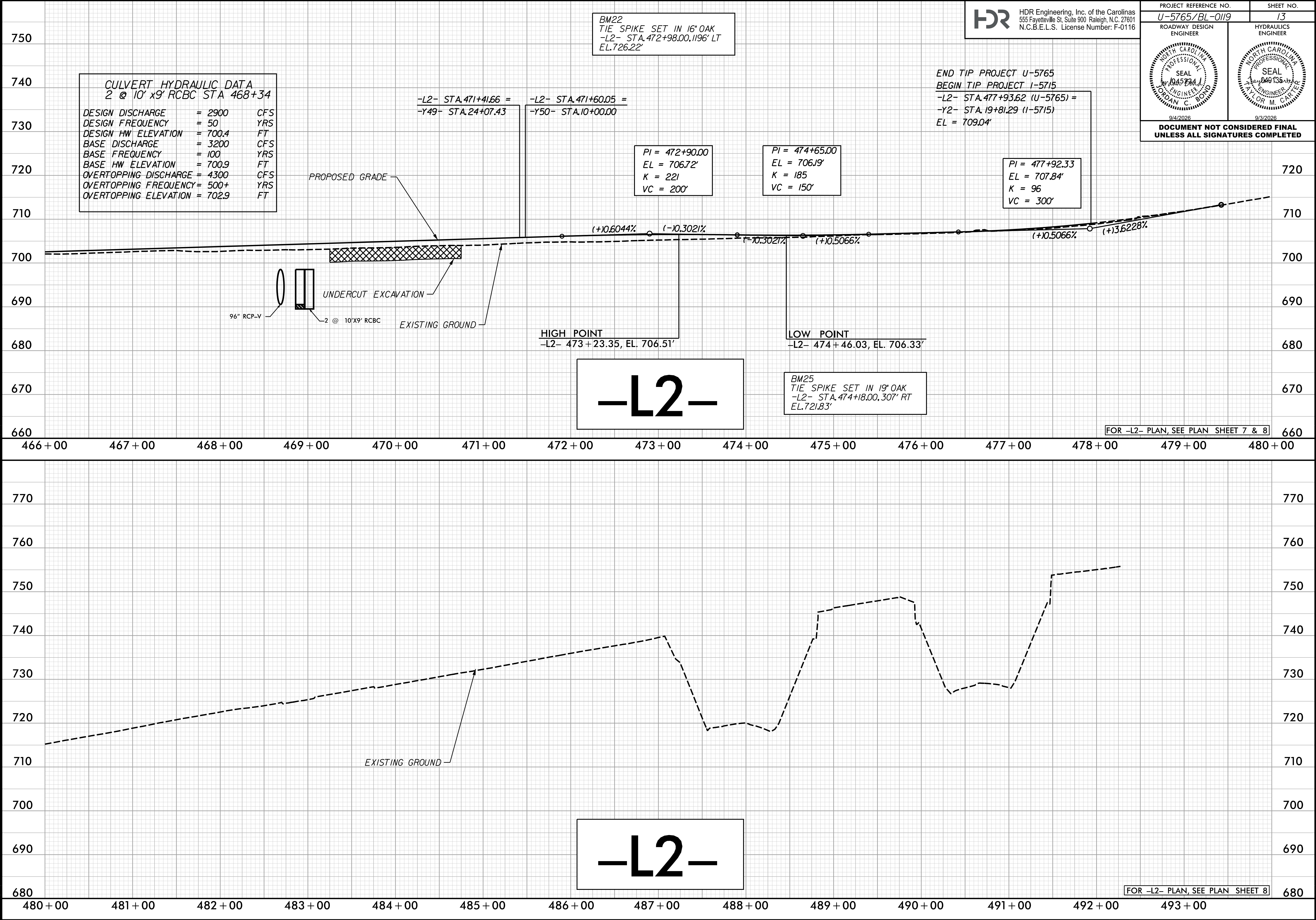


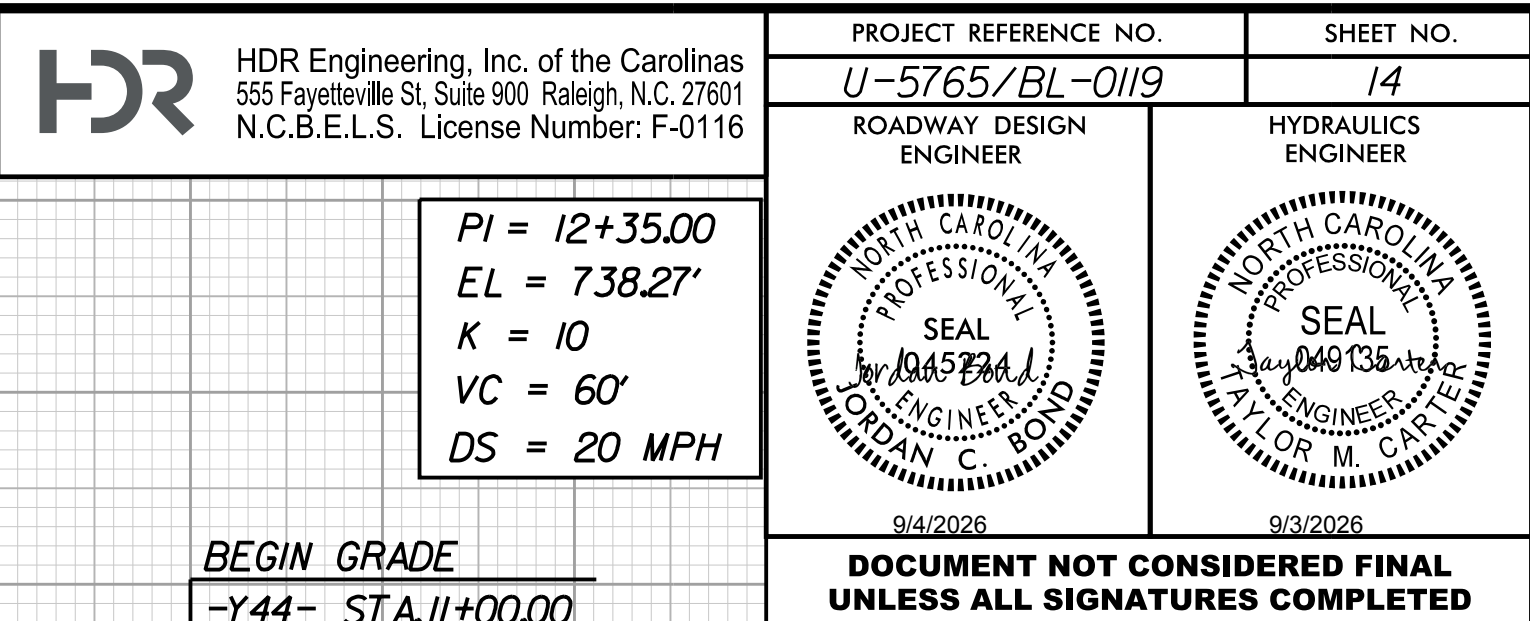
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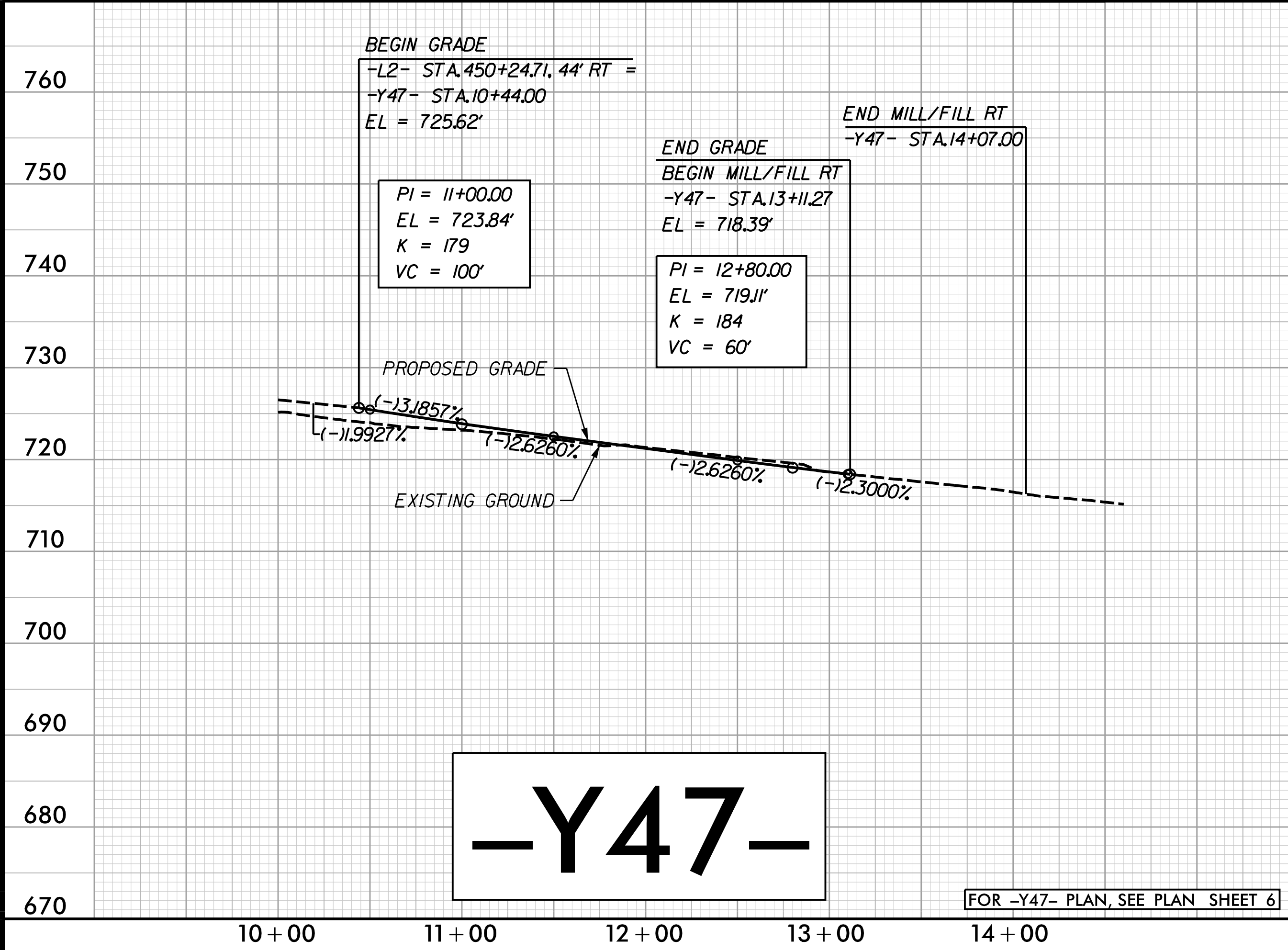
5/28/2026

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3/22/25 PM





5/28/2026



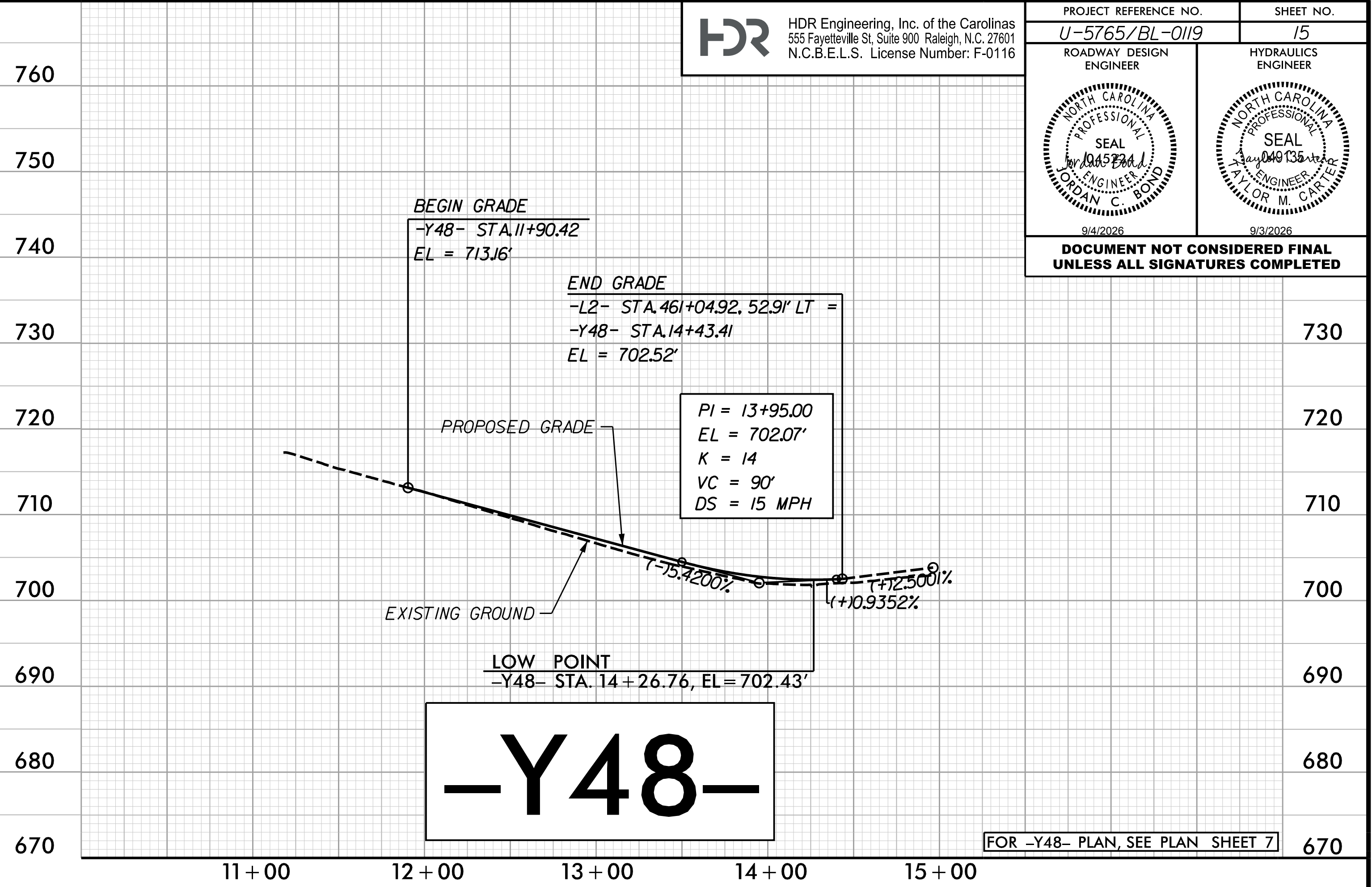
-Y47-

FOR -Y47- PLAN, SEE PLAN SHEET 6



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N.C.B.E.L.S. License Number: F-0116

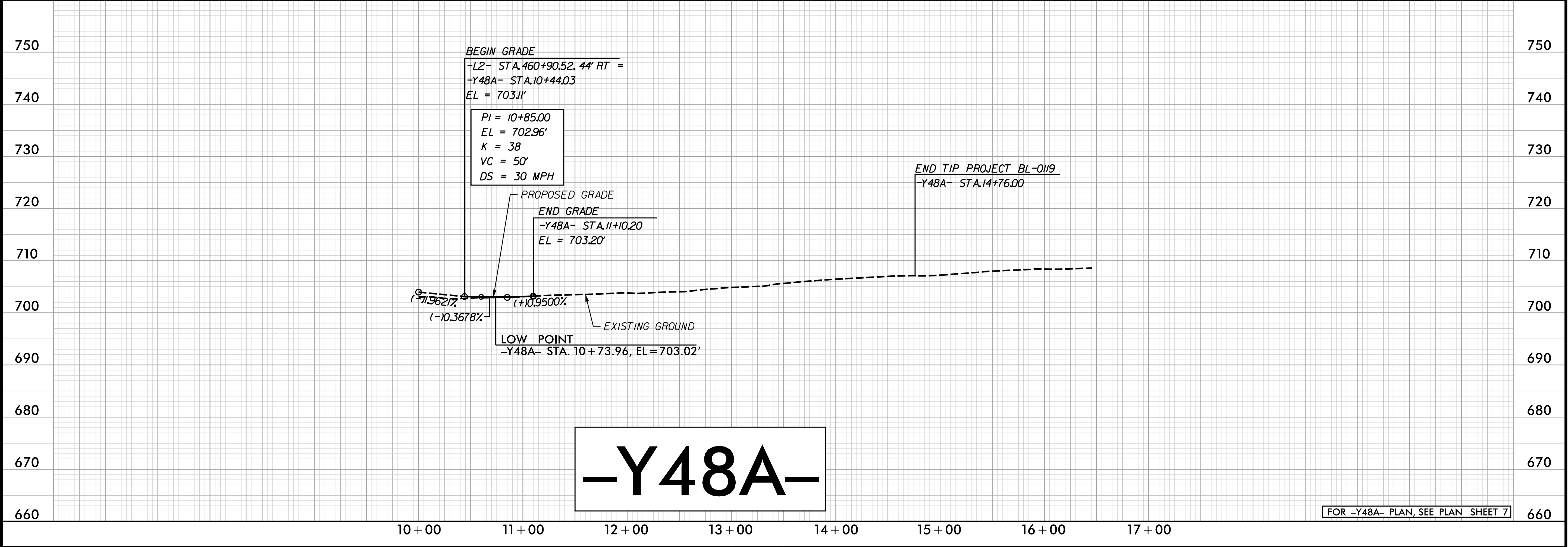
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FOR -Y48- PLAN, SEE PLAN SHEET 7

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U-5765/BL-0119

SHEET NO.
16

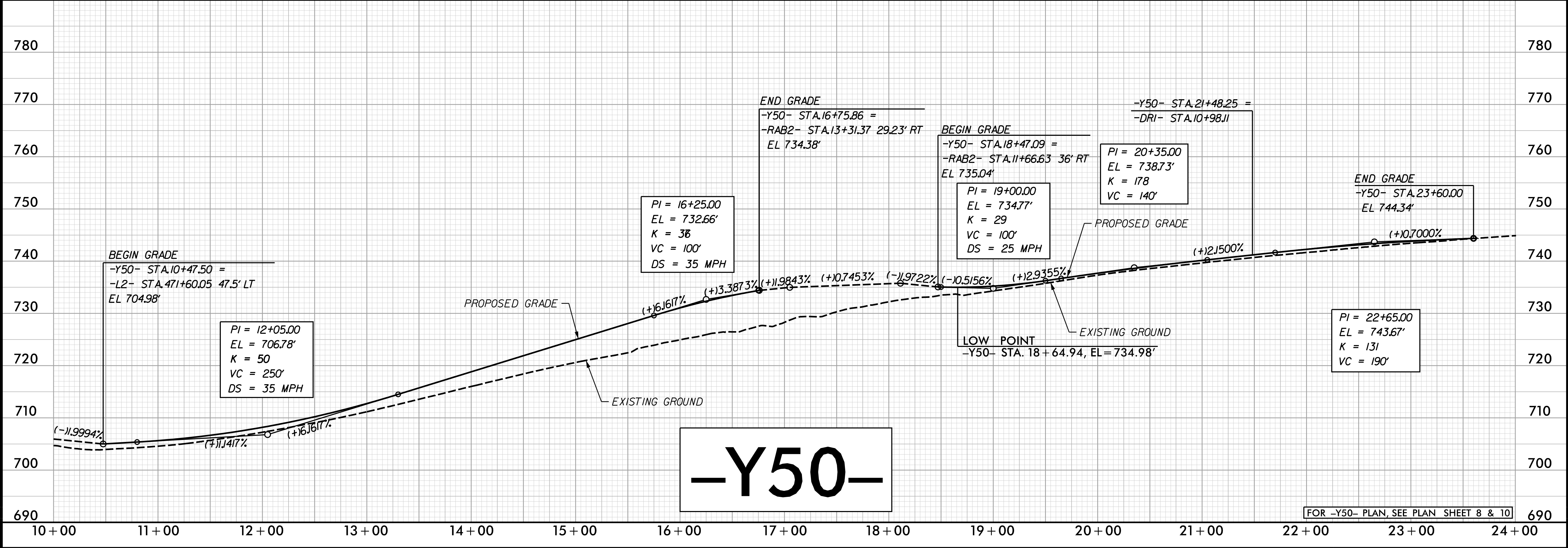
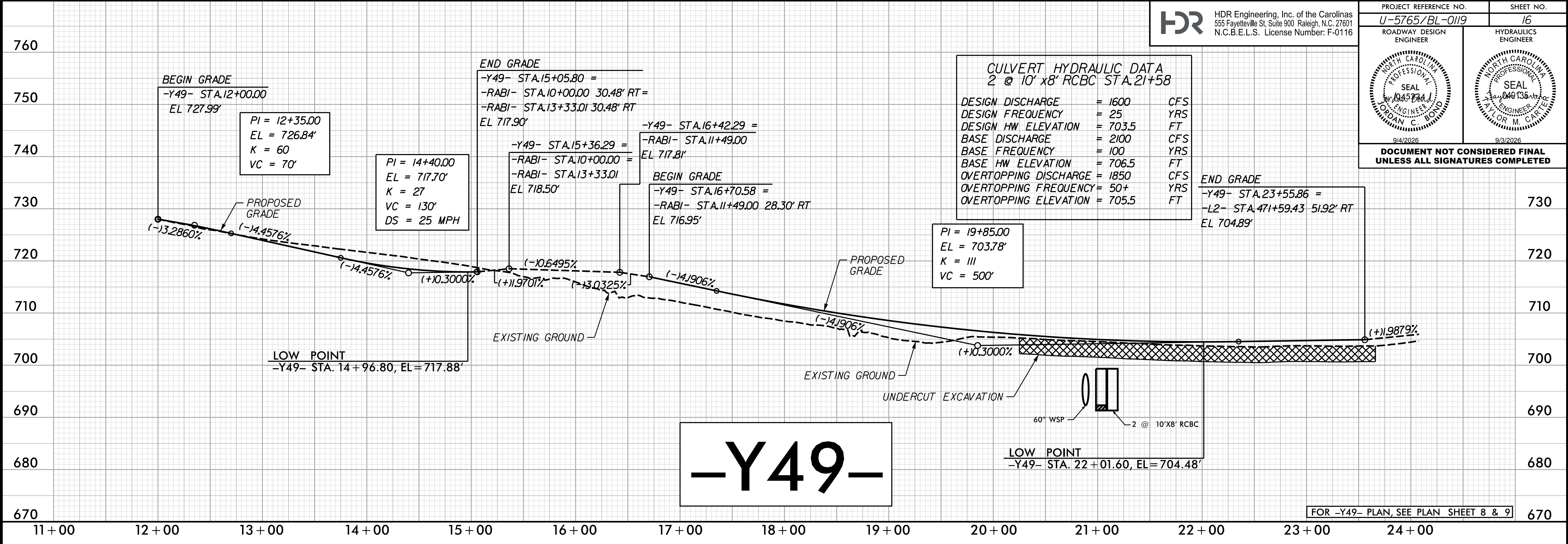
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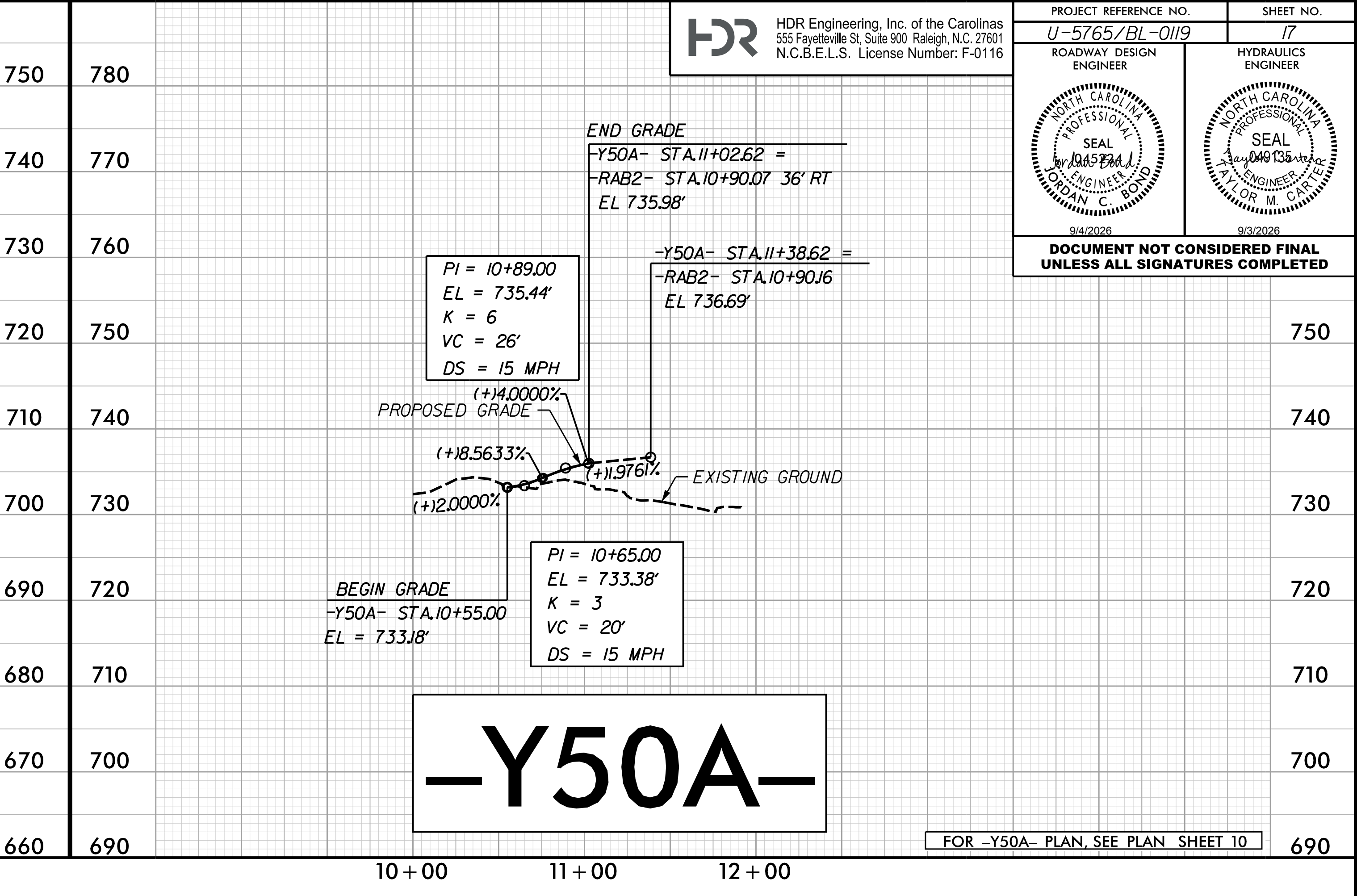
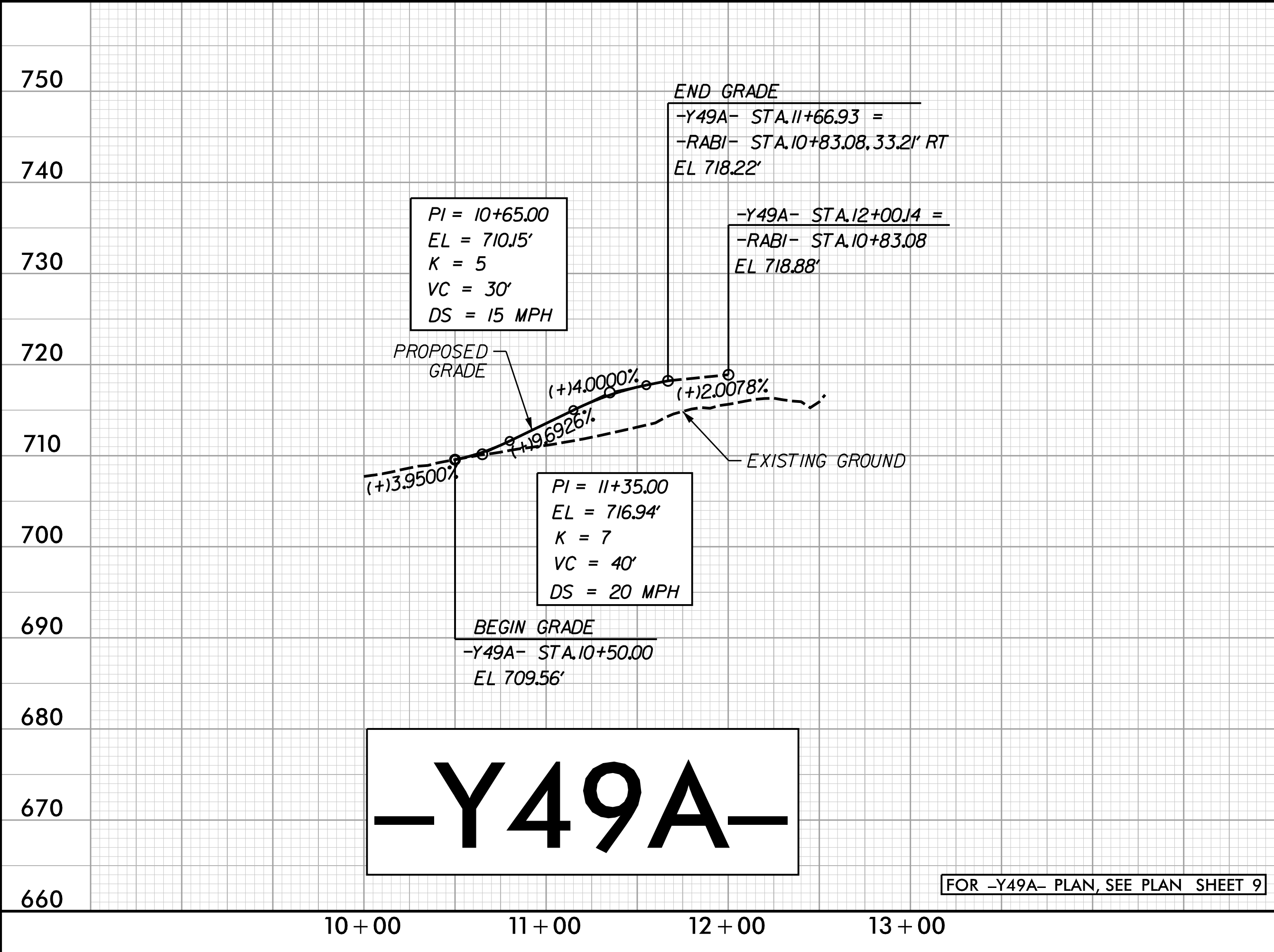
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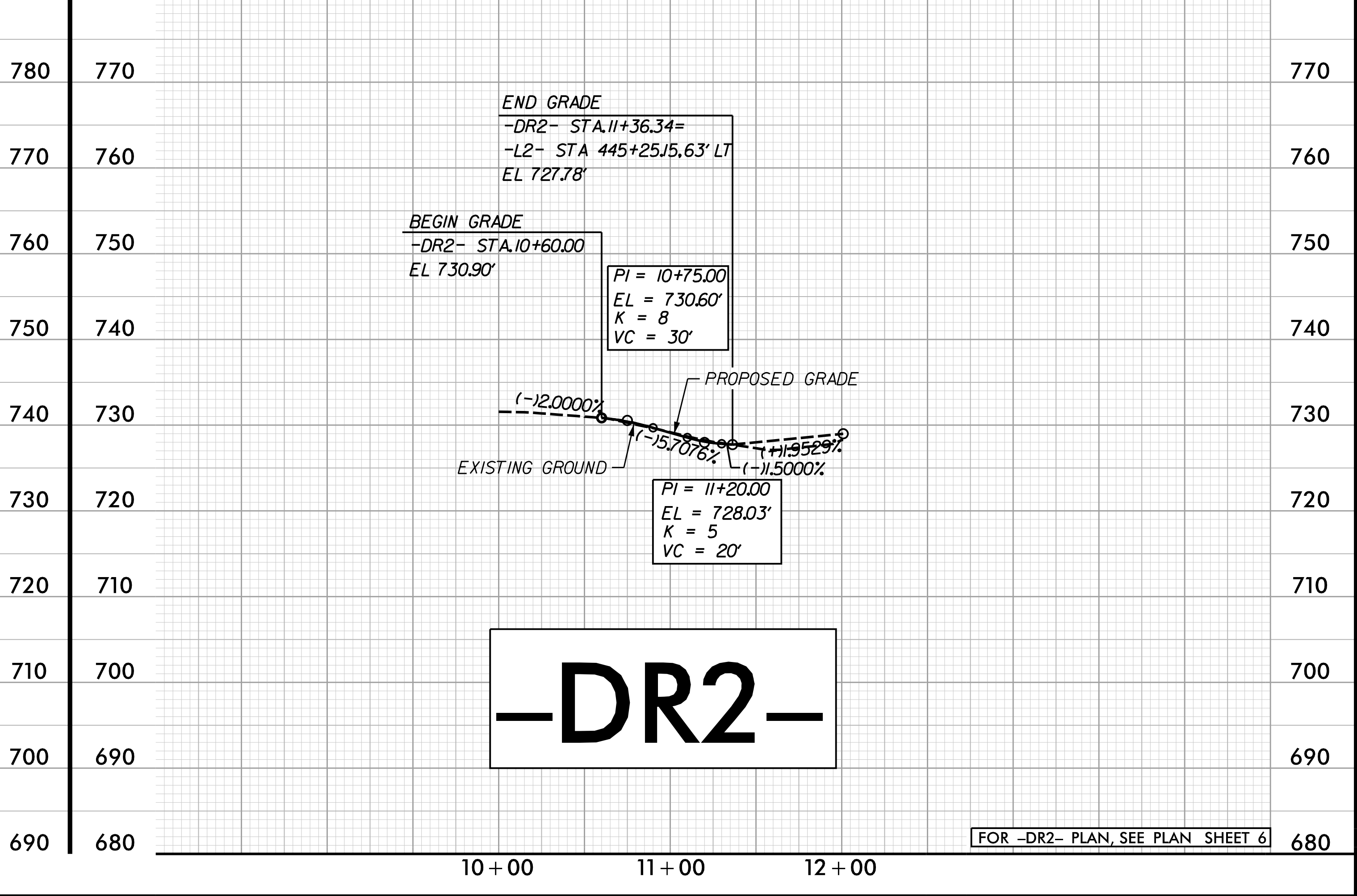
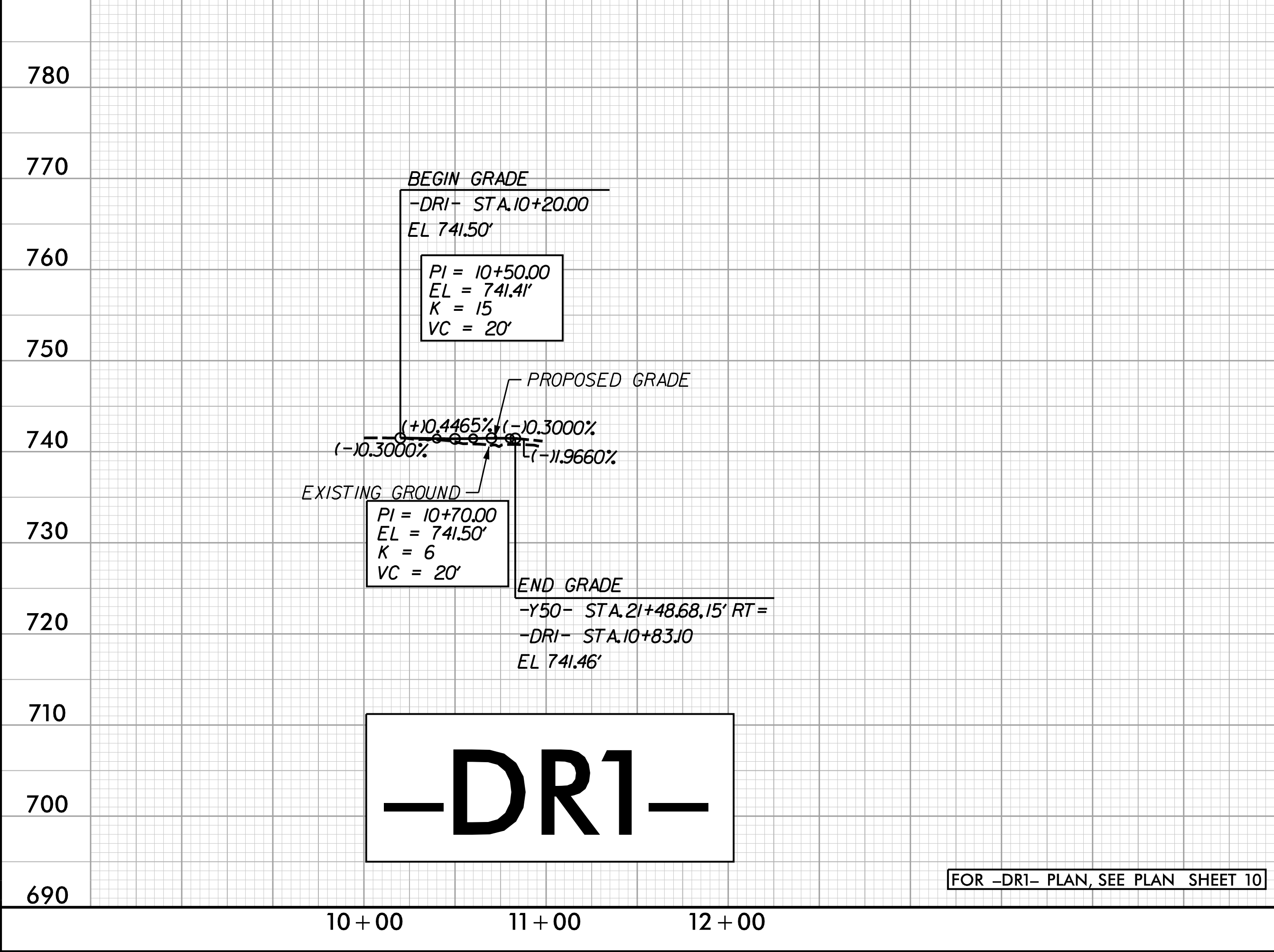
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PROJECT REFERENCE NO.		SHEET NO.
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FOR -DR2- PLAN, SEE PLAN SHEET 6

