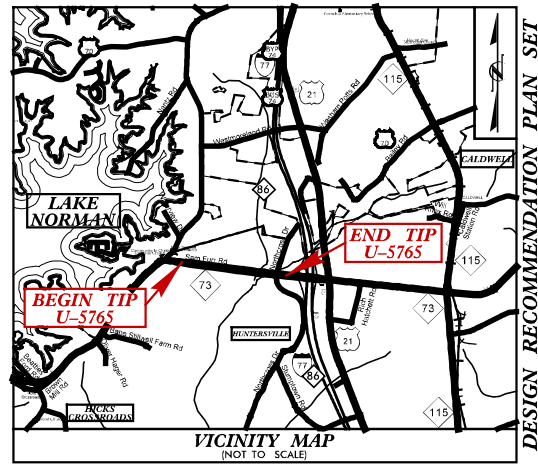


09/08/99
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 PLOT DRIVER: Hydro_color_pdf.plt
 USER: TCARTER
 DATE: 3/8/2022
 TIME: 1:31:21 PM

See Sheet 1-A For Index of Sheets



VICINITY MAP
(NOT TO SCALE)

DESIGN RECOMMENDATION PLAN SET

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

MECKLENBURG COUNTY

LOCATION: NC 73 - SR 5544 (WEST CATAWBA AVENUE) TO SR 2316 (NORTHCROSS DRIVE)

TYPE OF WORK: WIDENING, GRADING, DRAINAGE, PAVING, RETAINING WALLS, SIGNALS, AND SIGNING

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-5765	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
50178.1.1	N/A	P.E.	

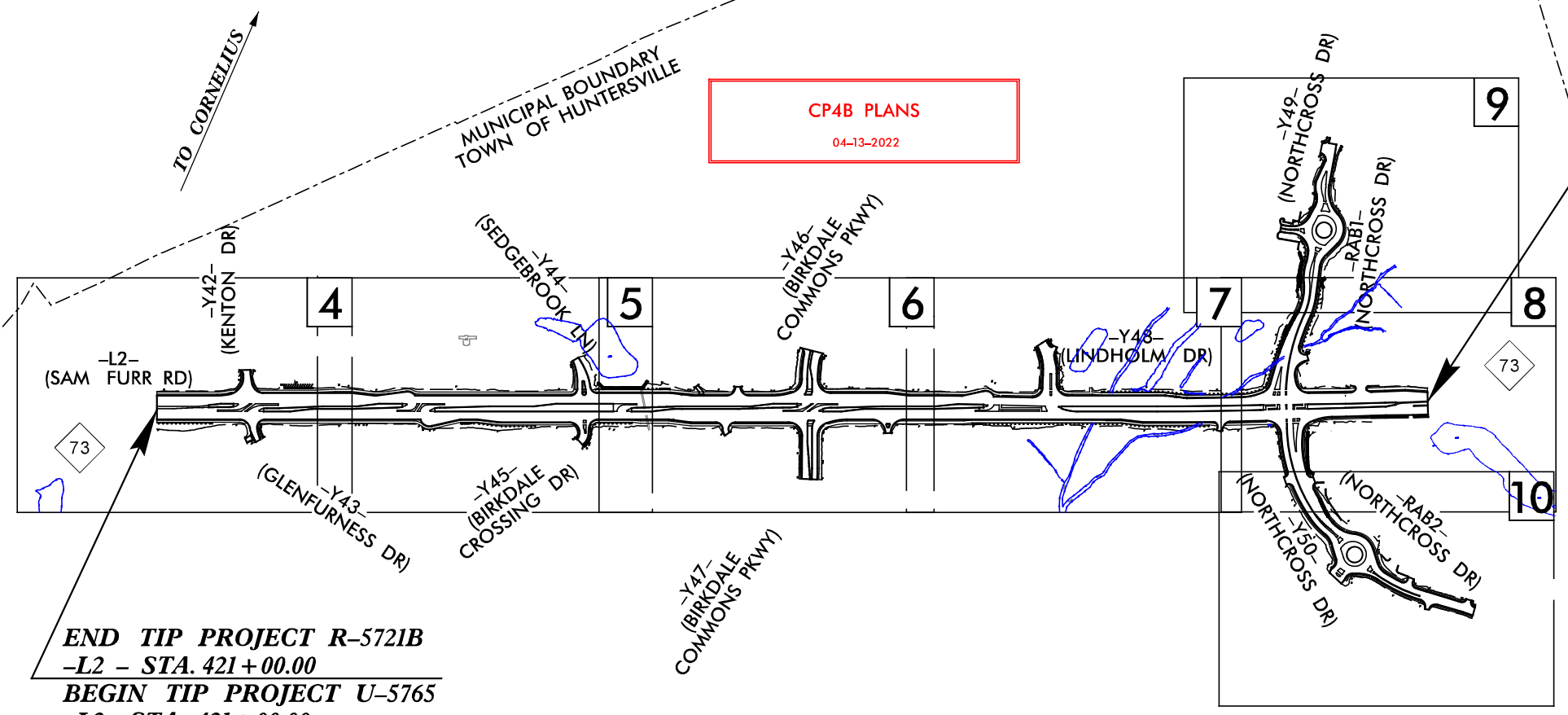


MUNICIPAL BOUNDARY
TOWN OF HUNTERSVILLE

TO CONCORD

END TIP PROJECT U-5765
-L2- STA. 476+77.18

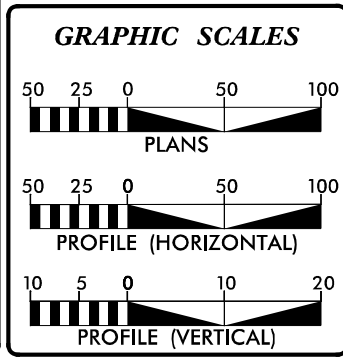
CONTRACT: TIP PROJECT: U-5765



NOTES:
THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF HUNTERSVILLE.
CLEARING ON THIS PROJECT SHOULD BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.

HDR 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

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



DESIGN DATA

ADT 2016 =	56,660
ADT 2040 =	72,730
K =	8 %
D =	55 %
T =	4 % *
V =	50 MPH
*TTST =	1% DUAL = 3%
FUNC CLASS =	REGIONAL TIER

PROJECT LENGTH

LENGTH ROADWAY -L2- (NC 73) =	1.056 MILES
TOTAL LENGTH TIP PROJECT U-5756 =	1.056 MILES

NCDOT CONTACT: _____ J. WILSON STROUD
PROJECT MANAGER

Prepared In the Office of:
DIVISION OF HIGHWAYS
1000 Birch Ridge Dr., Raleigh NC, 27610

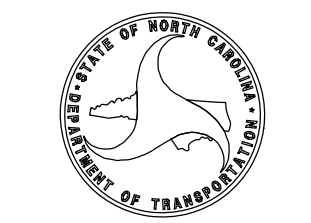
2018 STANDARD SPECIFICATIONS	
RIGHT OF WAY DATE:	PAUL ROBBINS, PE PROJECT ENGINEER
JULY 15, 2022	
LETTING DATE:	JEFFREY MUHLBAUER, PE PROJECT DESIGN ENGINEER
MAY 19, 2026	

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: _____ P.E.

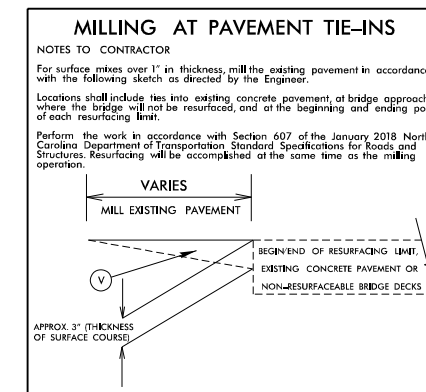
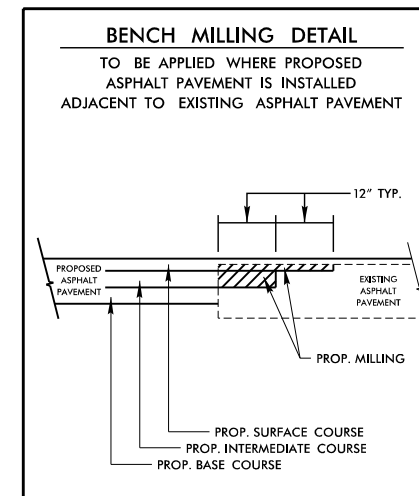
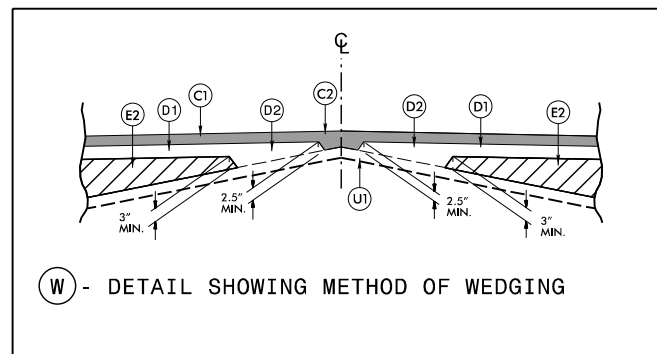


PAVEMENT SCHEDULE

(PRELIMINARY PAVEMENT DESIGN)

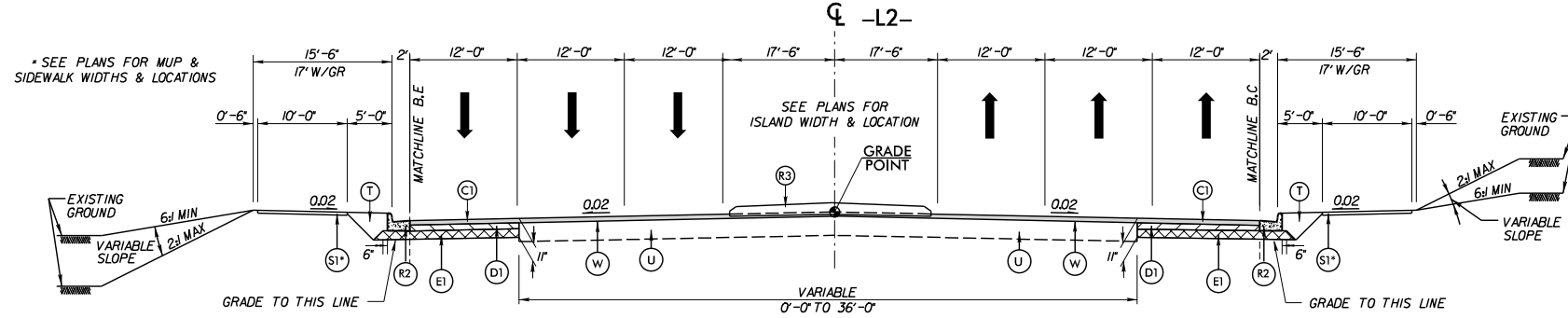
A1	9" Portland Cement Concrete Pavement	R2	2'-6" CONCRETE CURB AND GUTTER.
A2	6" Portland Cement Concrete Pavement	R3	5" MONOLITHIC CONCRETE ISLAND (KEYED IN).
C1	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.	S1	10' SIDEWALK
C2	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 2" IN DEPTH.	S2	12' SIDEWALK
C3	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD. IN EACH OF TWO LAYERS. <small>THAN 3 1/2" IN DEPTH.</small>	S3	5' SIDEWALK
C4	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 2" IN DEPTH.	T	EARTH MATERIAL.
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.	U	EXISTING PAVEMENT.
D2	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 2 1/2" IN DEPTH OR GREATER THAN 4" IN DEPTH.	V1	INCIDENTAL MILLING.
E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.	V2	3" MILLING.
E2	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 3" IN DEPTH OR GREATER THAN 5 1/2" IN DEPTH.	W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE WEDGING DETAIL).
J1	8" AGGREGATE BASE COURSE		
R1	1'-6" CONCRETE CURB AND GUTTER.		

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.



REVISIONS

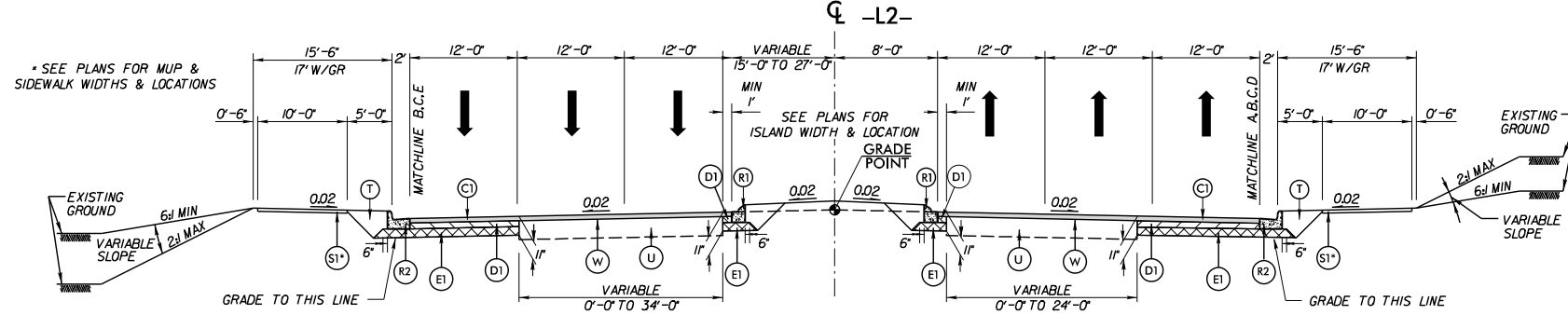
NC 73 (Sam Furr Rd.)



TYPICAL SECTION NO. 01

LINE	FROM STATION	TO STATION
-L2-	421 + 00.00	423 + 52.32
-L2-	424 + 63.98	425 + 56.62
-L2-	431 + 99.38	433 + 44.98
-L2-	441 + 45.67	442 + 26.32
-L2-	449 + 77.25	450 + 77.25
-L2-	458 + 03.32	458 + 88.96
-L2-	460 + 63.42	461 + 53.42
-L2-	471 + 01.96	471 + 87.33

NC 73 (Sam Furr Rd.)

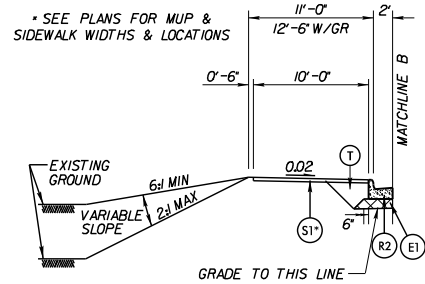


TYPICAL SECTION NO. 02

LINE	FROM STATION	TO STATION
-L2-	423 + 52.32	424 + 63.98
-L2-	425 + 56.62	431 + 99.38
-L2-	433 + 44.98	441 + 45.67
-L2-	442 + 26.32	449 + 77.25
-L2-	450 + 77.25	458 + 03.82
-L2-	458 + 88.96	460 + 63.42
-L2-	461 + 53.42	471 + 01.96

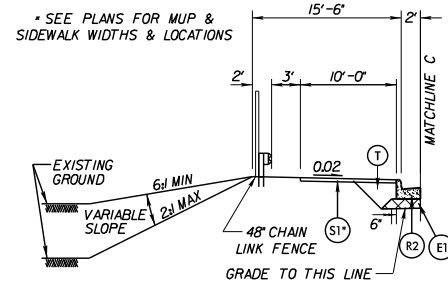
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

A1	9" PCCP
A2	6" PCCP
C1	3" S9.5C
D1	4" I19.0C
E1	4" B25.0C
J1	8" ABC
R1	1'-6" C&G
R2	2'-6" C&G
R3	5" Mono. Concrete Island
S1	10' Concrete Sidewalk
S1	12' Concrete Sidewalk
S1	5' Concrete Sidewalk
T	Earth Material
U	Existing Pavement
V1	Incidental Milling
V2	3" Milling
W	Wedging



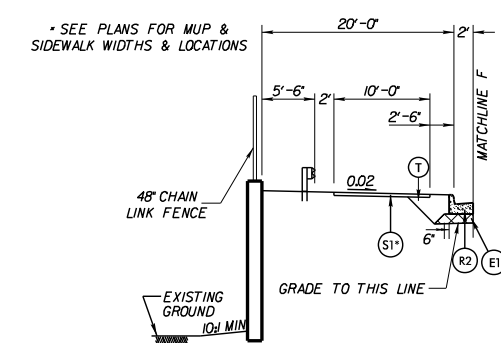
DETAIL A

LINE	FROM STATION	TO STATION
-L2- RT	423 + 50.00	424 + 78.85
-L2- LT	425 + 75.92	428 + 10.00
-L2- LT	431 + 18.39	432 + 44.27
-L2- RT	432 + 92.91	434 + 59.68
-L2- RT	434 + 97.86	439 + 49.56
-L2- LT	456 + 71.61	458 + 62.08



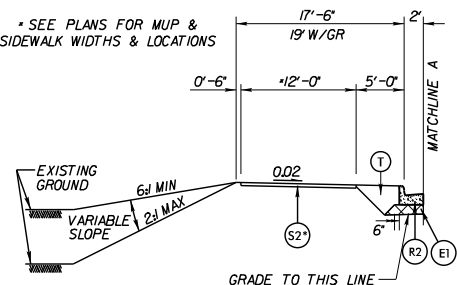
DETAIL B

LINE	FROM STATION	TO STATION
-L2- RT	421 + 00.00	423 + 50.00
-L2- RT	434 + 61.08	437 + 97.86
-L2- RT	440 + 75.27	442 + 30.04
-L2- LT	463 + 28.36	470 + 87.19



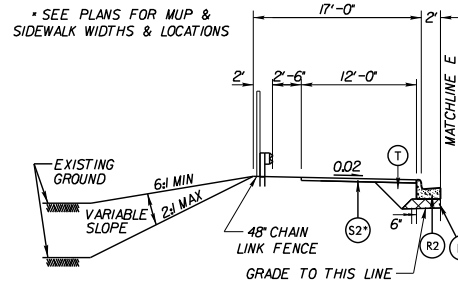
DETAIL C

LINE	FROM STATION	TO STATION
-L2- LT	440 + 79.25	443 + 57.08



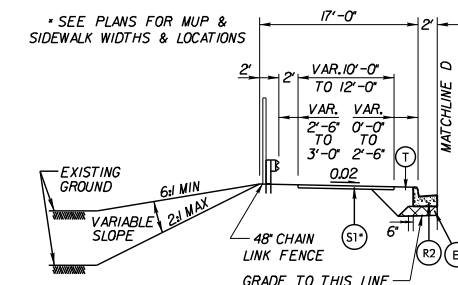
DETAIL D

LINE	FROM STATION	TO STATION
-L2- RT	451 + 10.81	457 + 15.00



DETAIL E

LINE	FROM STATION	TO STATION
-L2- RT	457 + 52.50	463 + 40.45



DETAIL F

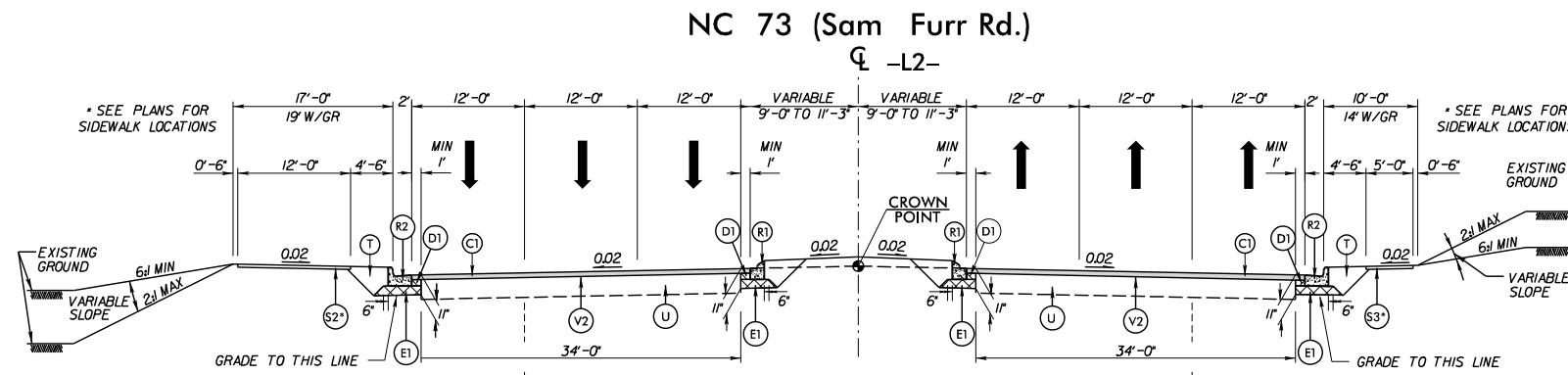
LINE	FROM STATION	TO STATION
-L2- RT	463 + 40.45	468 + 13.36

REVISIONS

PROJECT REFERENCE NO. U-5765	SHEET NO. 2A-3
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER

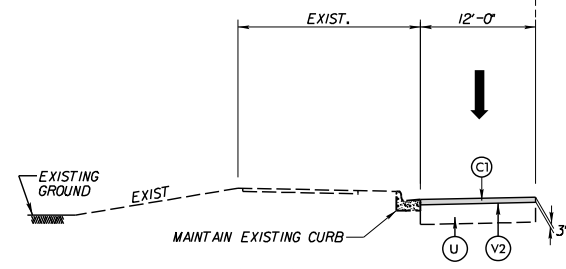
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

A1	9" PCCP
A2	6" PCCP
C1	3" S9.5C
D1	4" I19.0C
E1	4" B25.0C
J1	8" ABC
R1	1'-6" C&G
R2	2'-6" C&G
R3	5" Mono. Concrete Island
S1	10' Concrete Sidewalk
S1	12' Concrete Sidewalk
S1	5' Concrete Sidewalk
T	Earth Material
U	Existing Pavement
V1	Incidental Milling
V2	3" Milling
W	Wedging



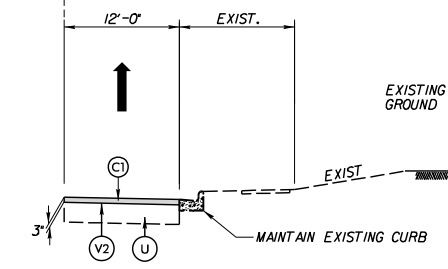
TYPICAL SECTION NO. 03

LINE	FROM STATION	TO STATION
-L2-	471 + 89.81	476 + 52.07



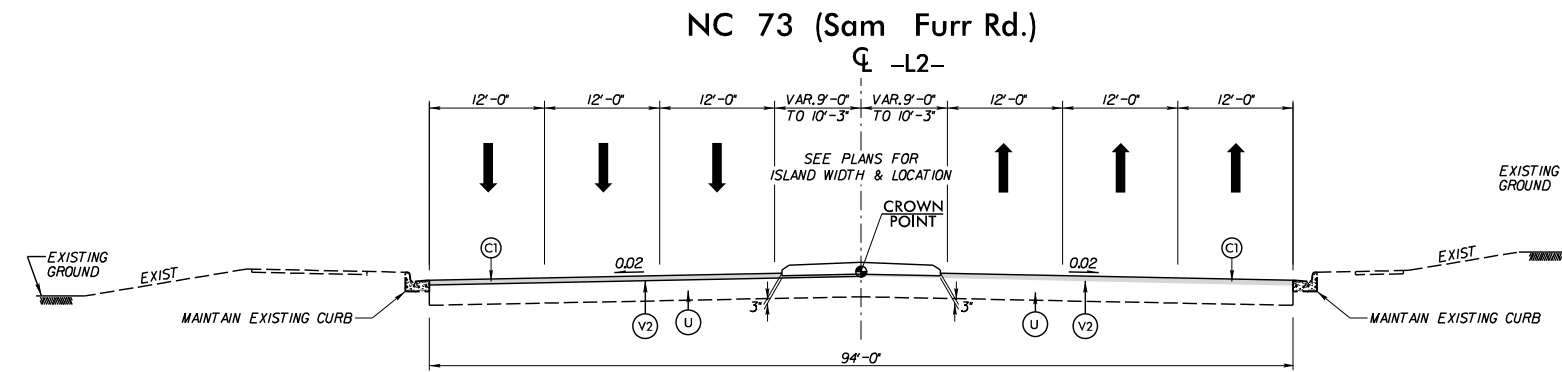
DETAIL NO. 03A

LINE	FROM STATION	TO STATION
-L2- LT	474 + 26.17	476 + 52.07



DETAIL NO. 03B

LINE	FROM STATION	TO STATION
-L2- LT	473 + 73.24	476 + 52.07

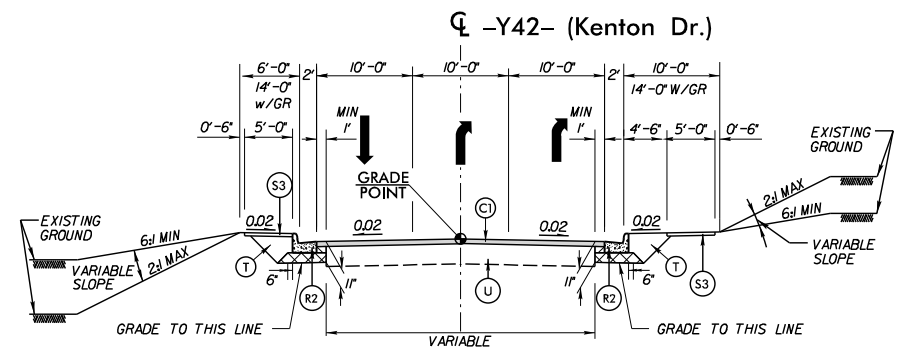


TYPICAL SECTION NO. 04

LINE	FROM STATION	TO STATION
-L2-	476 + 52.07	476 + 77.18

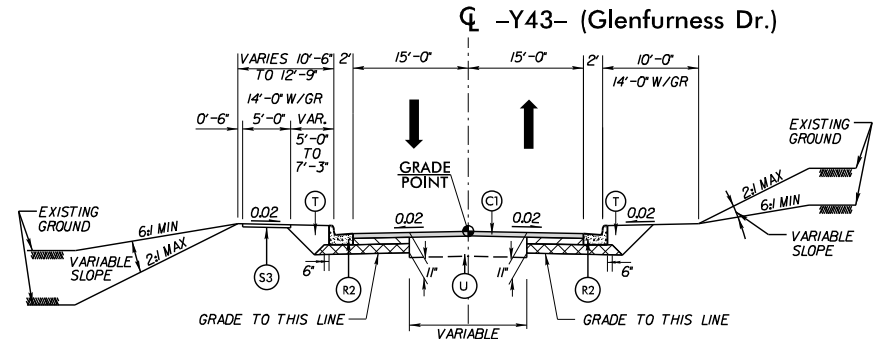
REVISIONS

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RW SHEET NO.	
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DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
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A2	6" PCCP
C1	3" S9.5C
D1	4" I19.0C
E1	4" B25.0C
J1	8" ABC
R1	1'-6" C&G
R2	2'-6" C&G
R3	5" Mono. Concrete Island
S1	10' Concrete Sidewalk
S1	12' Concrete Sidewalk
S1	5' Concrete Sidewalk
T	Earth Material
U	Existing Pavement
V1	Incidental Milling
V2	3" Milling
W	Wedging



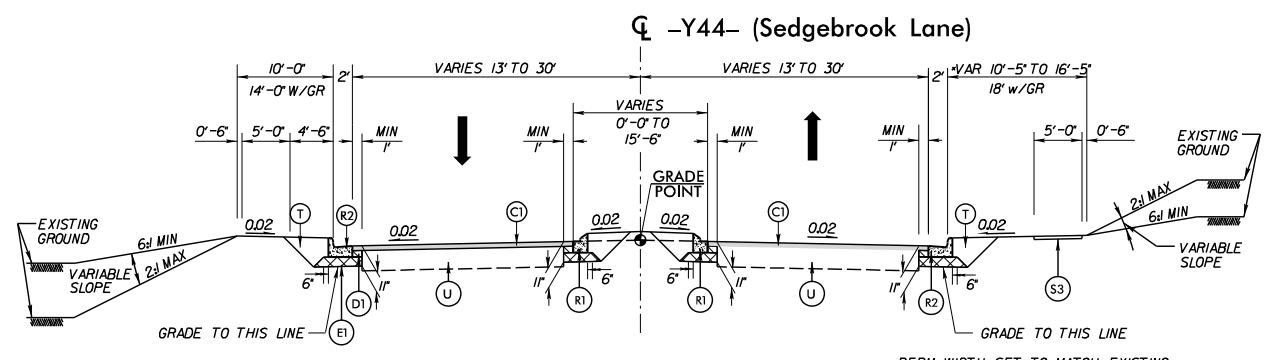
TYPICAL SECTION NO. 05

LINE	FROM STATION	TO STATION
-Y42-	11 + 32.59	12 + 47.06



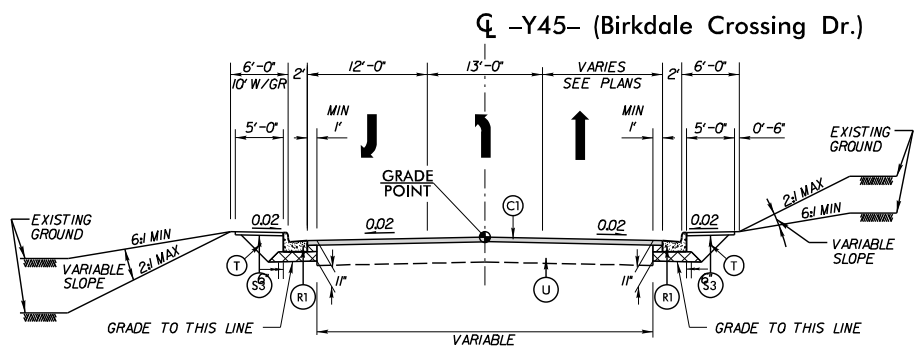
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LINE	FROM STATION	TO STATION
-Y43-	10 + 44.77	11 + 45.00



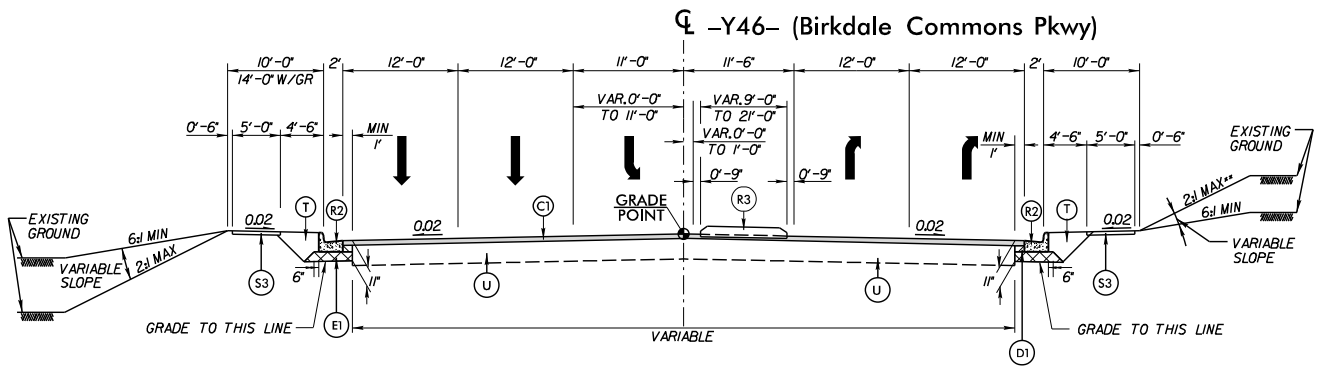
TYPICAL SECTION NO. 07

LINE	FROM STATION	TO STATION
-Y44-	11 + 00.00	12 + 69.82



TYPICAL SECTION NO. 08

LINE	FROM STATION	TO STATION
-Y45-	10 + 44.01	11 + 50.67



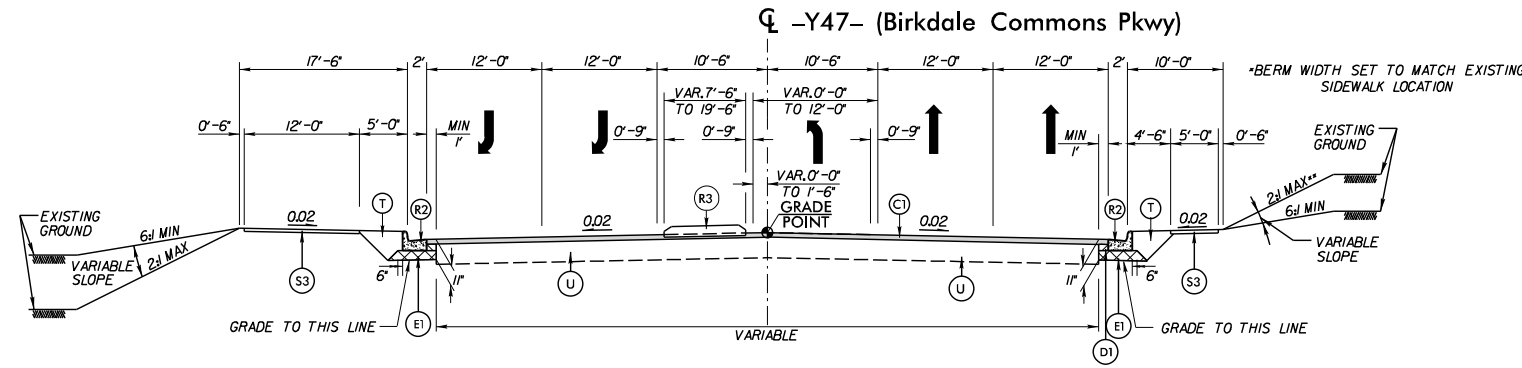
TYPICAL SECTION NO. 09

LINE	FROM STATION	TO STATION
-Y46-	11 + 08.44	13 + 09.67

REVISIONS

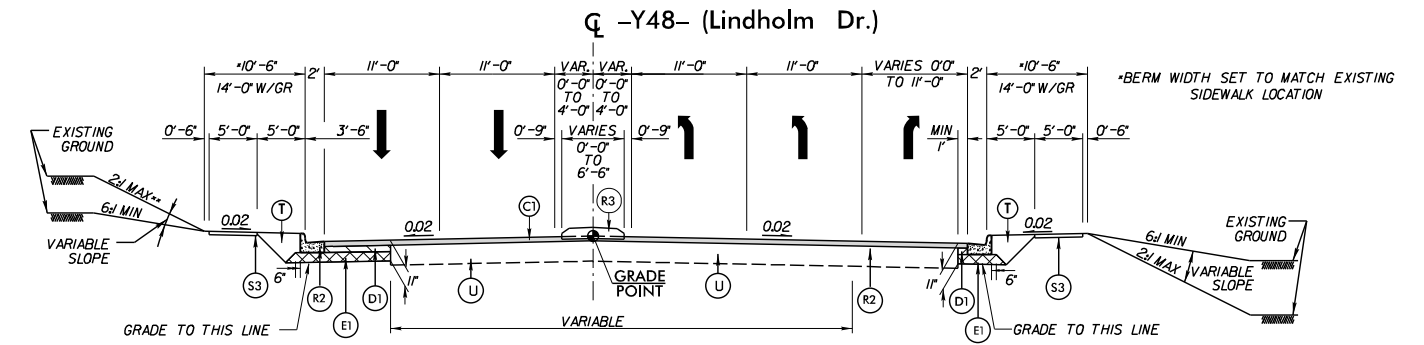
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PROJECT REFERENCE NO. U-5765	SHEET NO. 2A-5
RW SHEET NO.	
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DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



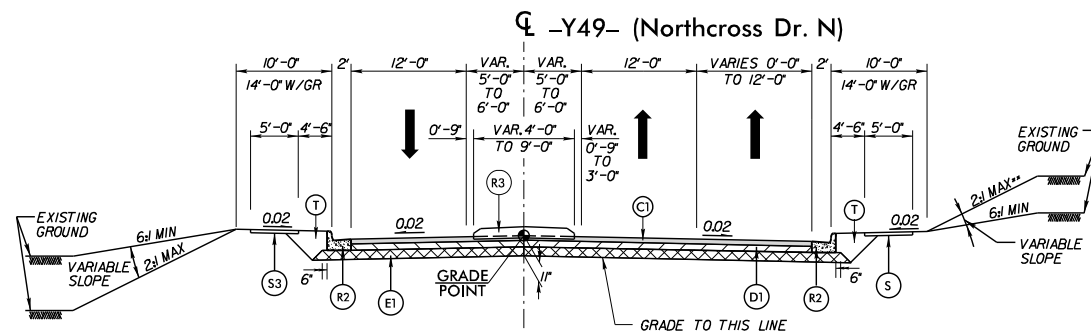
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LINE	FROM STATION	TO STATION
-Y47-	10 + 44.00	13 + 11.27



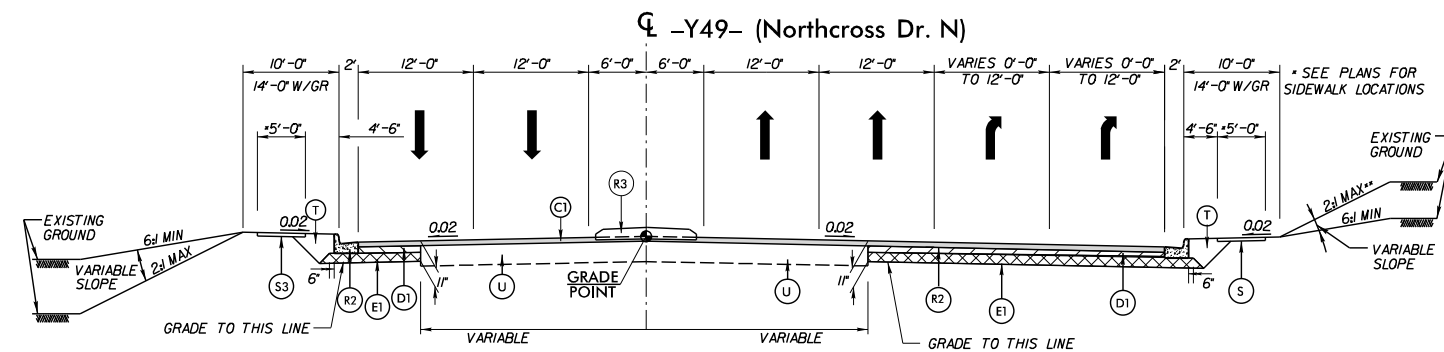
TYPICAL SECTION NO. 11

LINE	FROM STATION	TO STATION
-Y48-	11 + 90.42	14 + 43.41



TYPICAL SECTION NO. 12

LINE	FROM STATION	TO STATION
-Y49-	12 + 00.00	15 + 34.80



TYPICAL SECTION NO. 13

LINE	FROM STATION	TO STATION
-Y49-	18 + 75.00	23 + 55.19

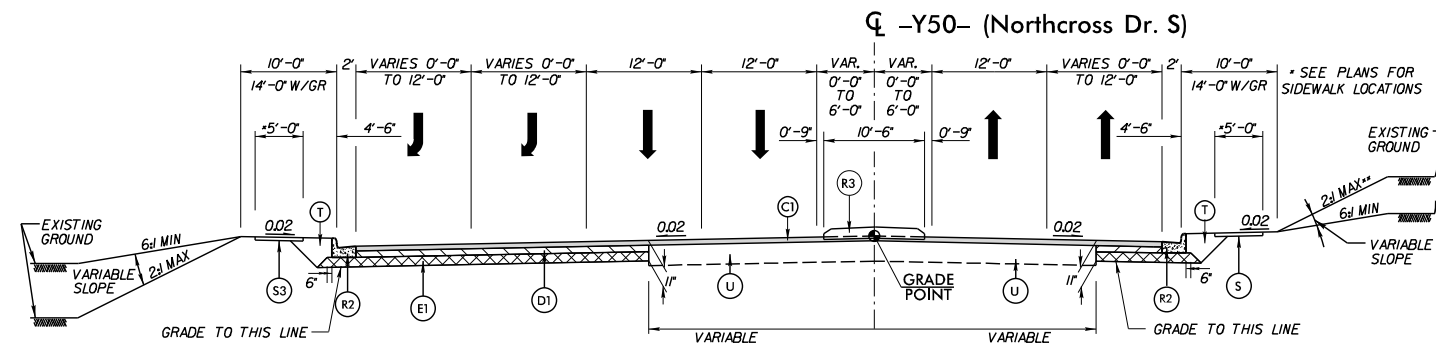
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A2	6" PCCP
C1	3" S9.5C
D1	4" I19.0C
E1	4" B25.0C
J1	8" ABC
R1	1'-6" C&G
R2	2'-6" C&G
R3	5" Mono. Concrete Island
S1	10' Concrete Sidewalk
S1	12' Concrete Sidewalk
S1	5' Concrete Sidewalk
T	Earth Material
U	Existing Pavement
V1	Incidental Milling
V2	3" Milling
W	Wedging

REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
U-5765	2A-6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER

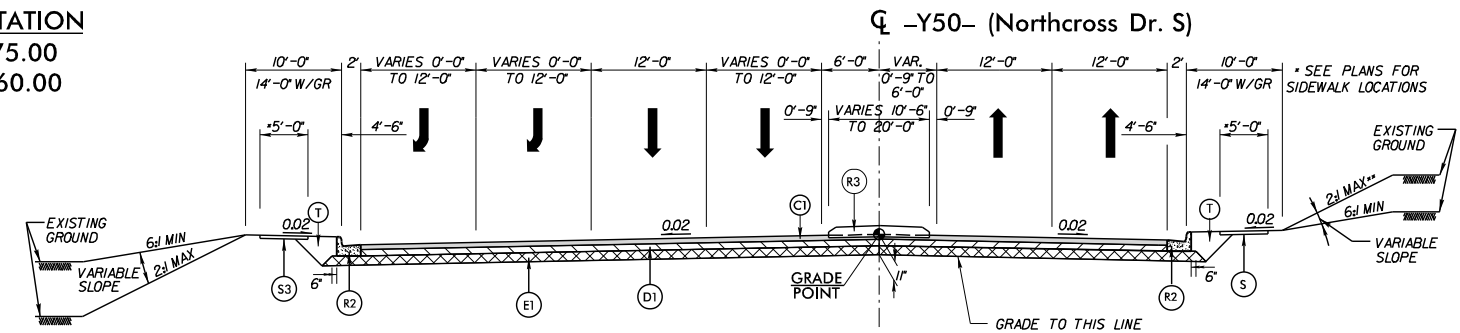
DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED

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A2	6" PCCP
C1	3" S9.5C
D1	4" I19.0C
E1	4" B25.0C
J1	8" ABC
R1	1'-6" C&G
R2	2'-6" C&G
R3	5" Mono. Concrete Island
S1	10' Concrete Sidewalk
S1	12' Concrete Sidewalk
S1	5' Concrete Sidewalk
T	Earth Material
U	Existing Pavement
V1	Incidental Milling
V2	3" Milling
W	Wedging



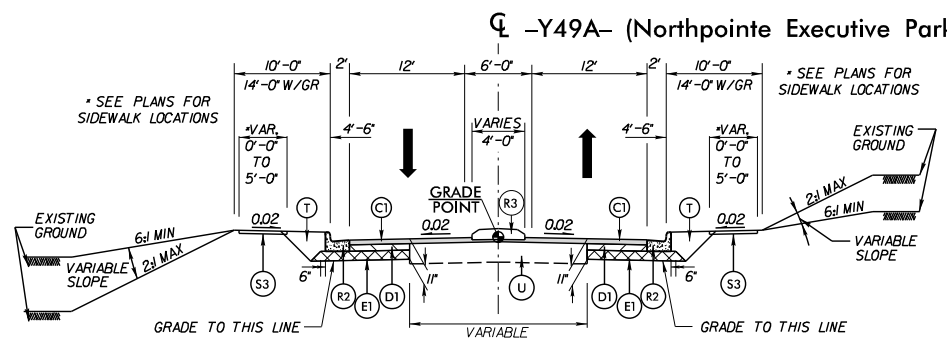
TYPICAL SECTION NO. 14

LINE	FROM STATION	TO STATION
-Y50-	10 + 47.68	14 + 75.00
-Y50-	18 + 42.20	23 + 60.00



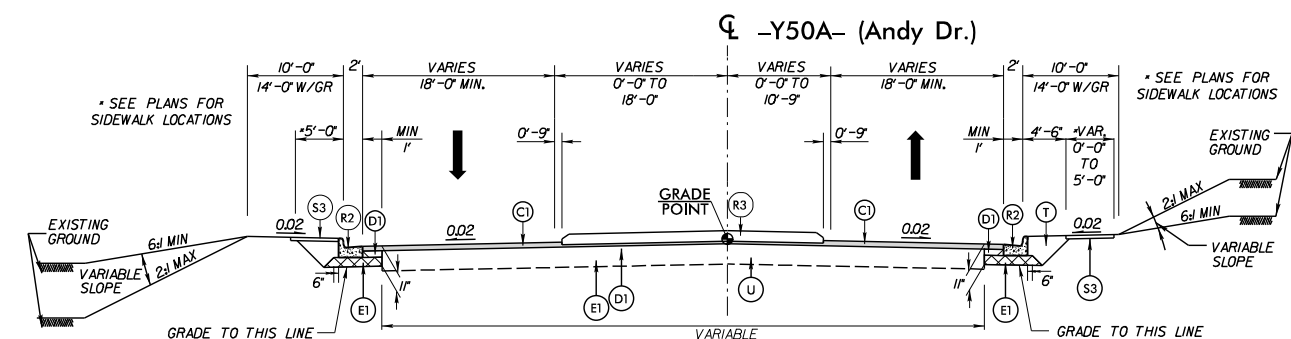
TYPICAL SECTION NO. 15

LINE	FROM STATION	TO STATION
-Y50-	14 + 75.00	16 + 81.47



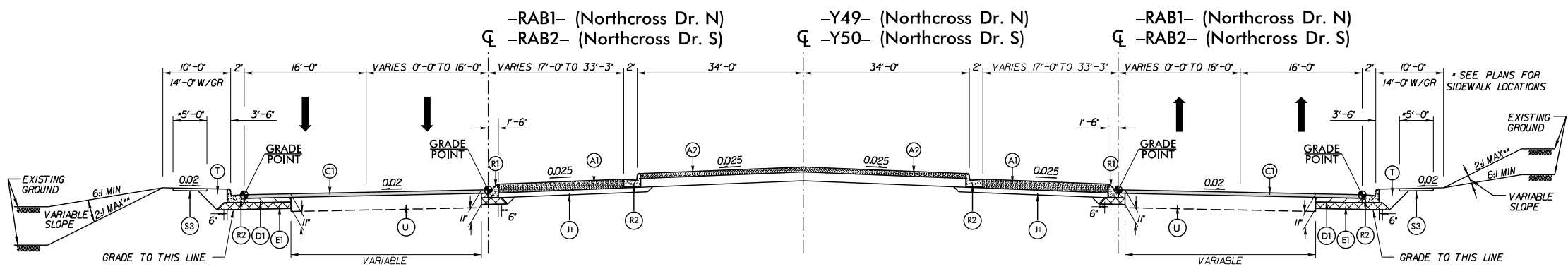
TYPICAL SECTION NO. 16

LINE	FROM STATION	TO STATION
-Y49A-	10 + 87.00	12 + 06.30



TYPICAL SECTION NO. 17

LINE	FROM STATION	TO STATION
-Y50A-	10 + 57.50	11 + 09.13




TYPICAL SECTION NO. 18

LINE	FROM STATION	TO STATION
-RAB1-	10 + 00.00	13 + 33.01
-RAB2-	10 + 00.00	13 + 33.01

REVISIONS

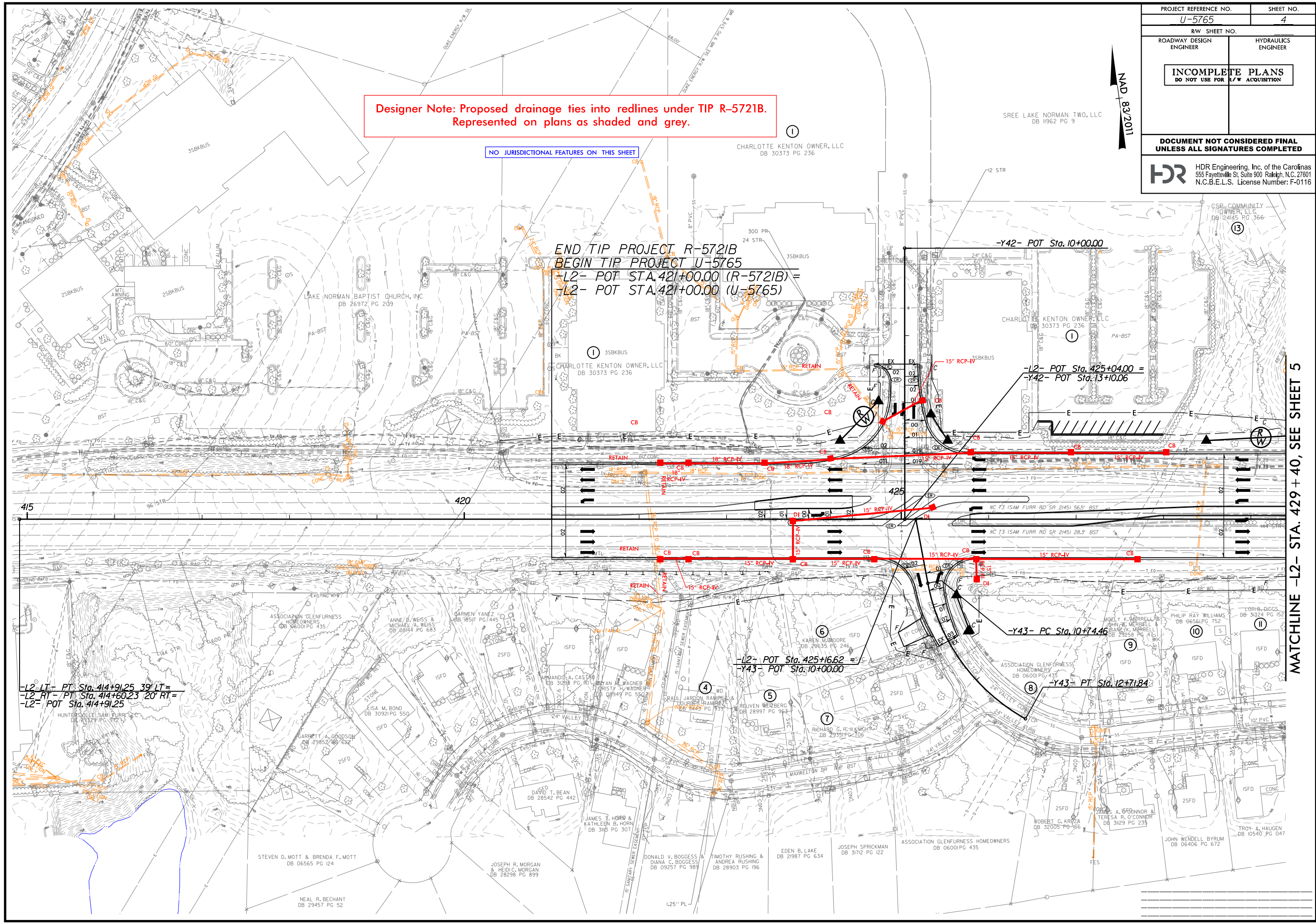
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PROJECT REFERENCE NO. U-5765	SHEET NO. 4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
 HDR Engineering, Inc. of the Carolinas 555 Fayetteville St. Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	

**Designer Note: Proposed drainage ties into redlines under TIP R-5721B.
 Represented on plans as shaded and grey.**


NO JURISDICTIONAL FEATURES ON THIS SHEET

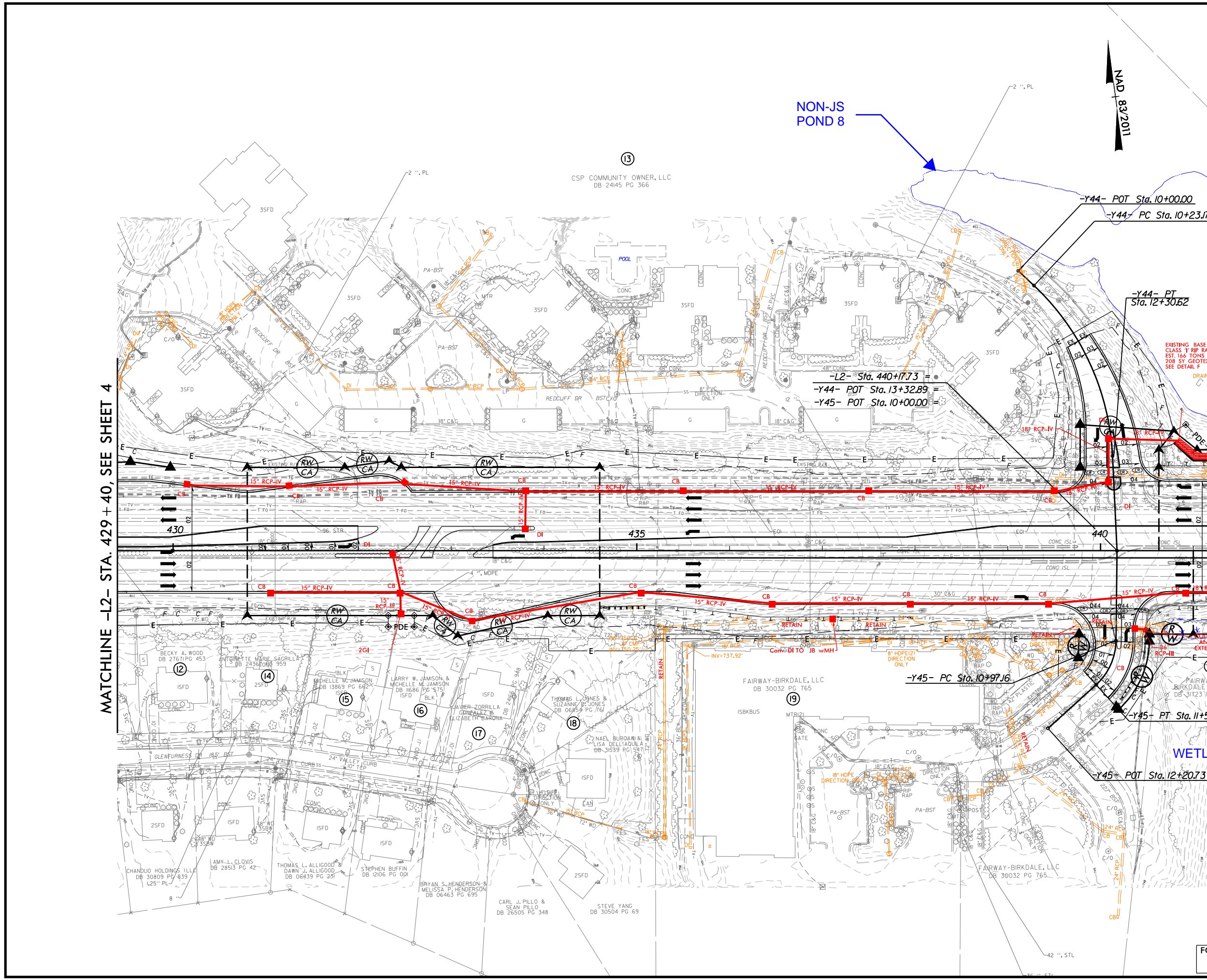
NAD 83/2011



MATCHLINE -L2- STA. 429 + 40, SEE SHEET 5

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PROJECT REFERENCE NO. U-5765	SHEET NO. 5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
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	




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

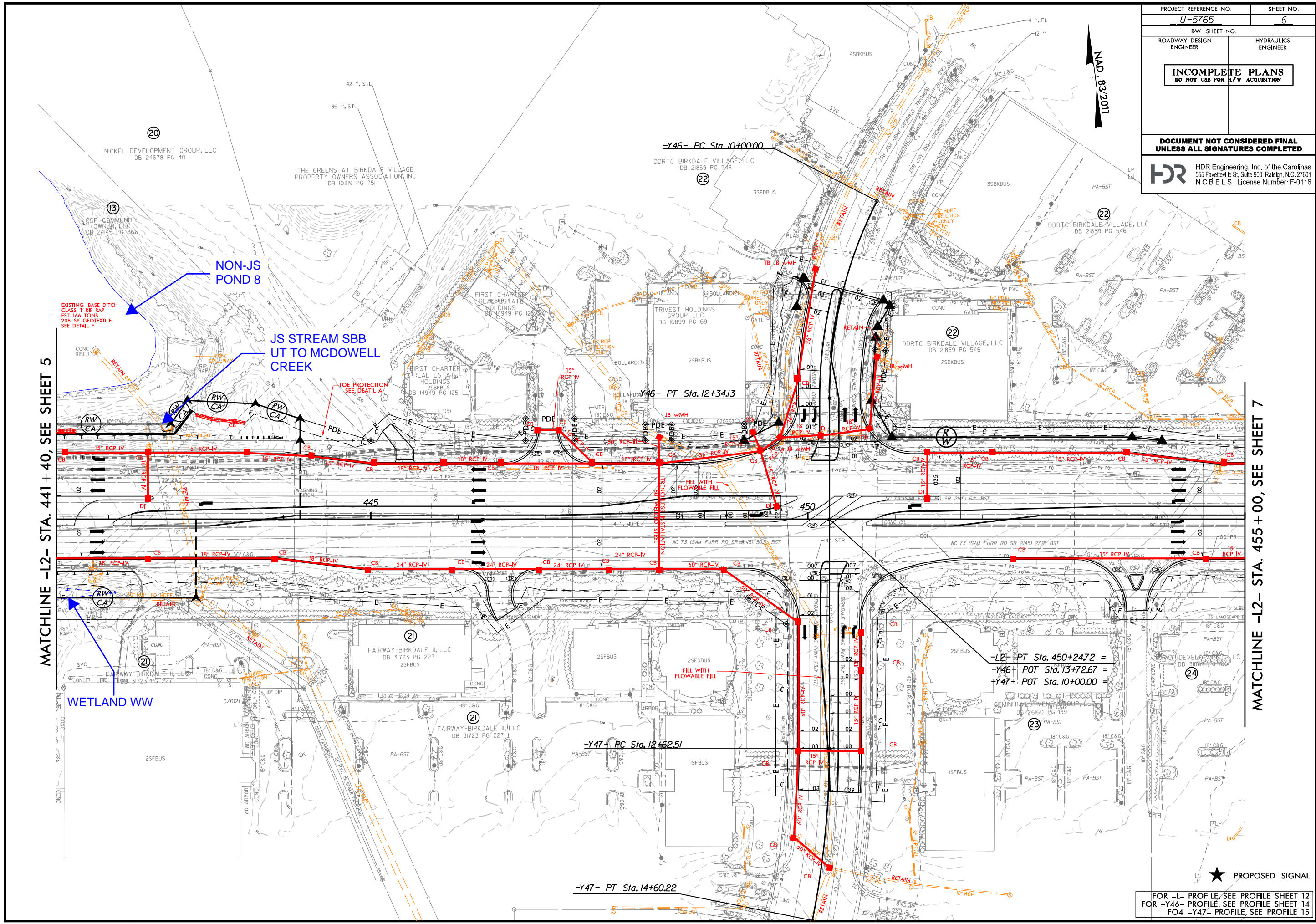
MATCHLINE -L2- STA. 441 + 40, SEE SHEET 6

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 DATE: 3/21/2022

FOR -L- PROFILE, SEE PROFILE SHEET 11 & 12
 FOR -Y44- PROFILE, SEE PROFILE SHEET 14
 FOR -Y45- PROFILE, SEE PROFILE 14

PROJECT REFERENCE NO. U-5765	SHEET NO. 6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR A/W ACQUISITION	
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NAD 83/2011



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


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

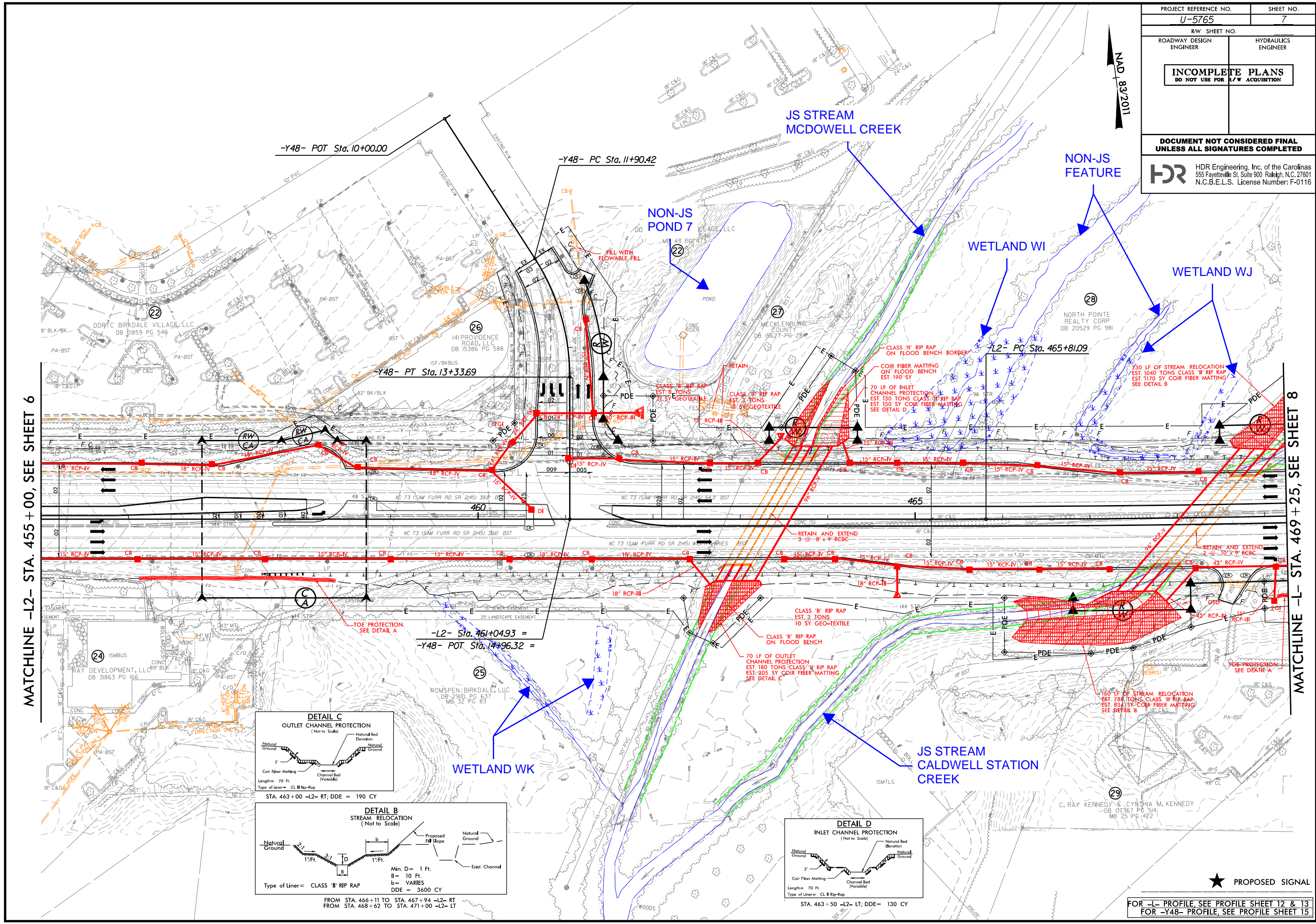
-L2- PT Sta. 450+24.72 =
 -Y46- POT Sta. 13+72.67 =
 -Y47- POT Sta. 10+00.00 =

-Y47- PC Sta. 14+60.22

★ PROPOSED SIGNAL
 FOR -L- PROFILE, SEE PROFILE SHEET 12
 FOR -Y46- PROFILE, SEE PROFILE SHEET 14
 FOR -Y47- PROFILE, SEE PROFILE SHEET 15

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PROJECT REFERENCE NO. U-5765	SHEET NO. 7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
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MATCHLINE -L2- STA. 455 + 00, SEE SHEET 6

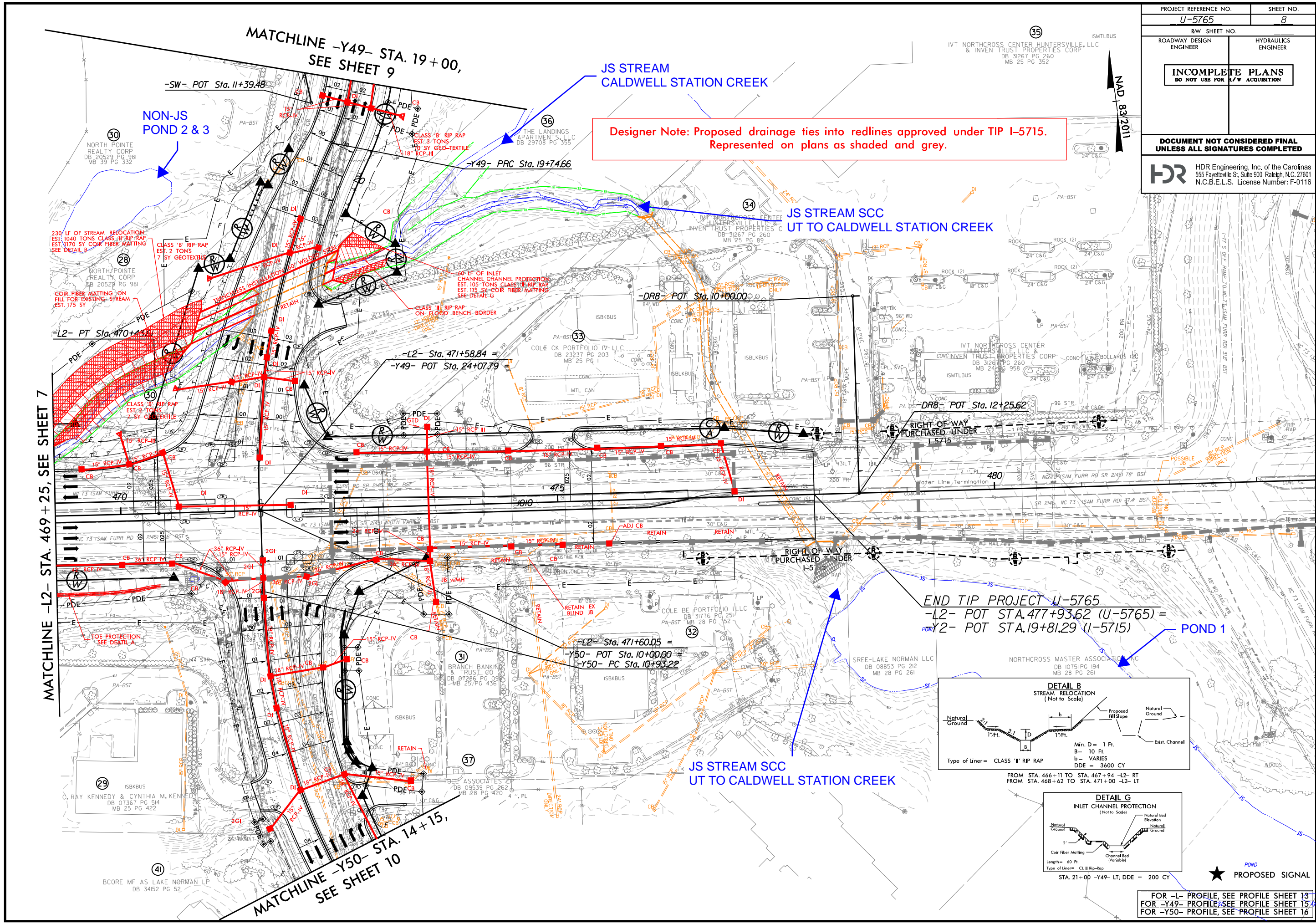
MATCHLINE -L- STA. 469 + 25, SEE SHEET 8

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★ PROPOSED SIGNAL

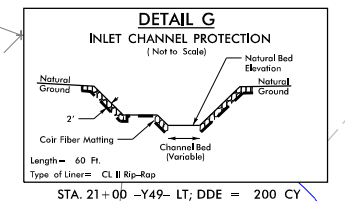
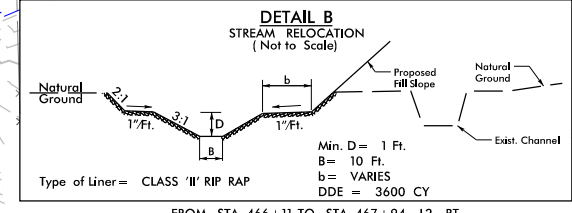
FOR -L- PROFILE, SEE PROFILE SHEET 12 & 13
 FOR -Y48- PROFILE, SEE PROFILE SHEET 15

PROJECT REFERENCE NO.	SHEET NO.
U-5765	8
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR A/R ACQUISITION	
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Designer Note: Proposed drainage ties into redlines approved under TIP I-5715. Represented on plans as shaded and grey.

END TIP PROJECT U-5765
 -L2- POT STA. 477+93.62 (U-5765) =
 POT Y2- POT STA. 19+81.29 (I-5715)




FOR -L- PROFILE, SEE PROFILE SHEET 13
 FOR -Y49- PROFILE, SEE PROFILE SHEET 15
 FOR -Y50- PROFILE, SEE PROFILE SHEET 16

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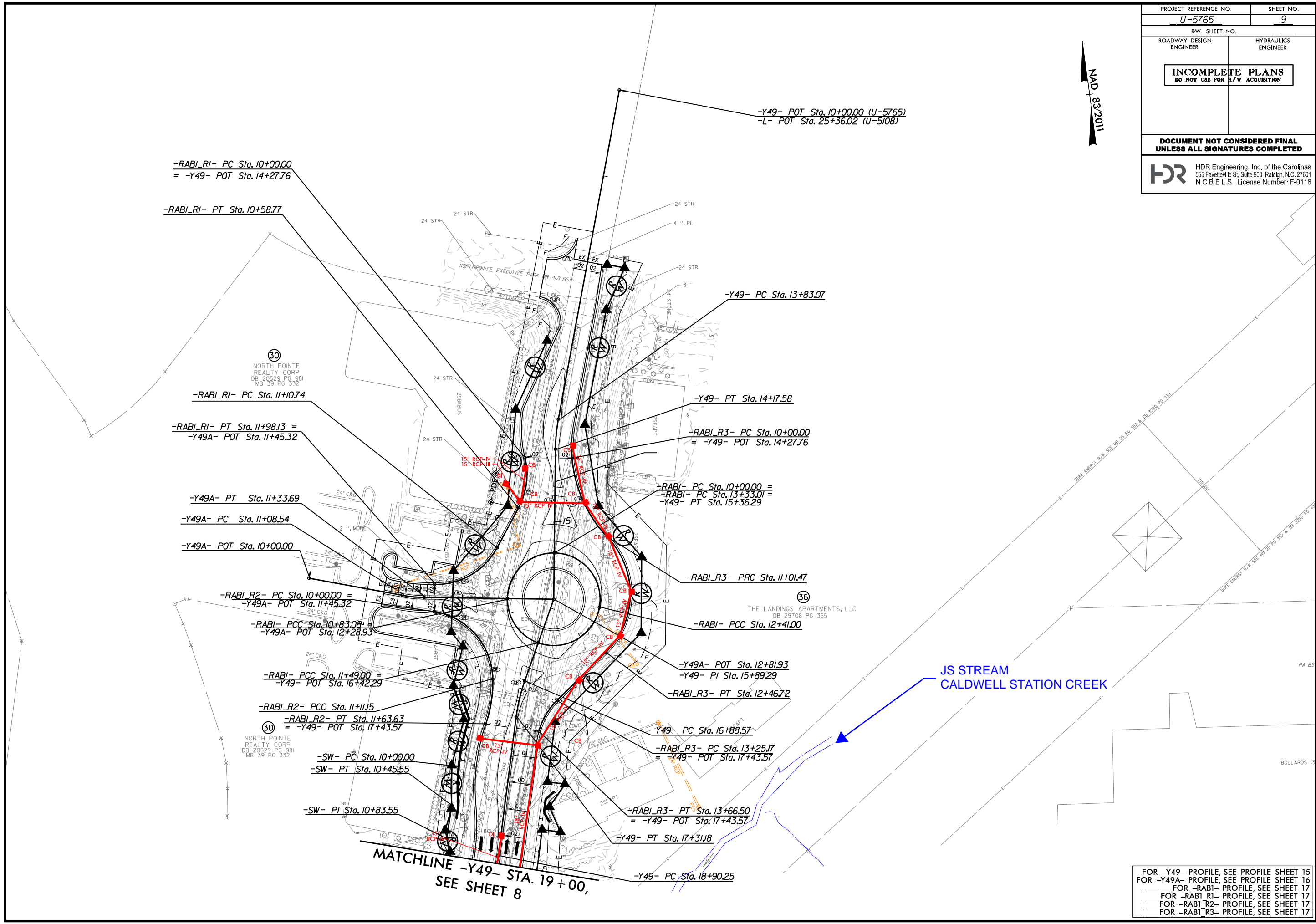
MATCHLINE -L2- STA. 469 + 25, SEE SHEET 7

MATCHLINE -Y50- STA. 14 + 15, SEE SHEET 10

MATCHLINE -Y49- STA. 19 + 00, SEE SHEET 9

PROJECT REFERENCE NO. <i>U-5765</i>	SHEET NO. <i>9</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR A/W ACQUISITION	
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PLOT DRIVER: NCDOT_color_eng_100.plt
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 DATE: 3/21/2022
 TIME: 1:51:12 PM

JS STREAM
CALDWELL STATION CREEK

**MATCHLINE -Y49- STA. 19+00,
SEE SHEET 8**

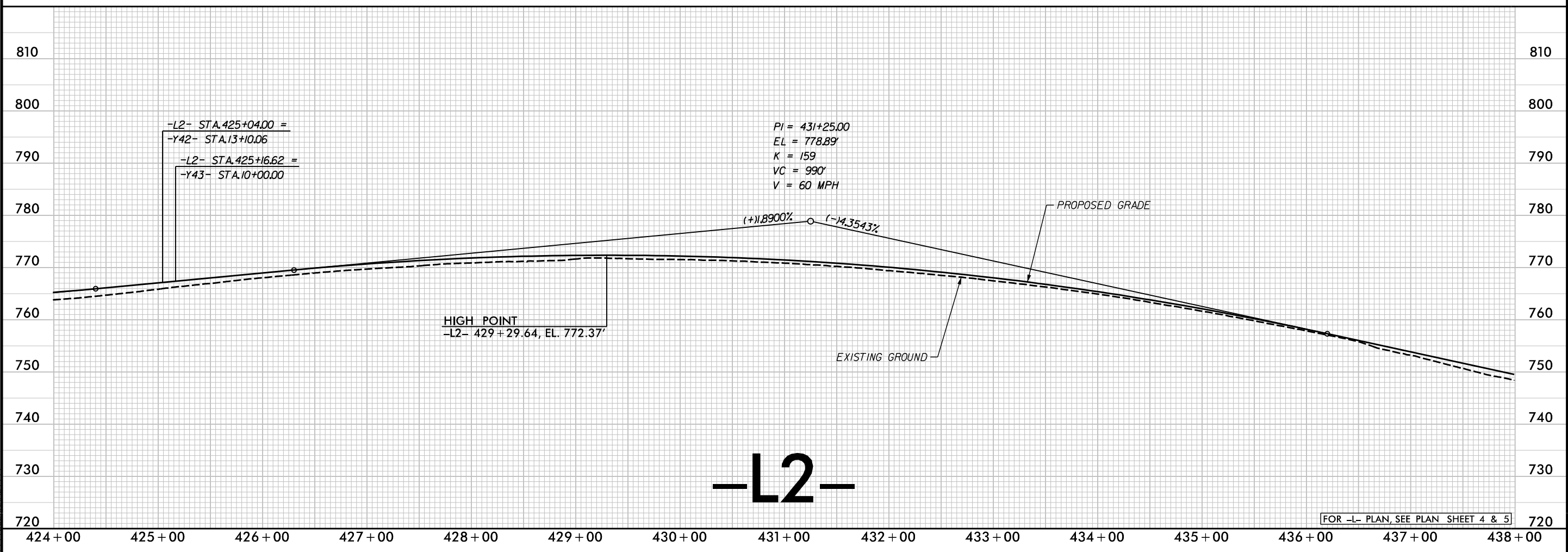
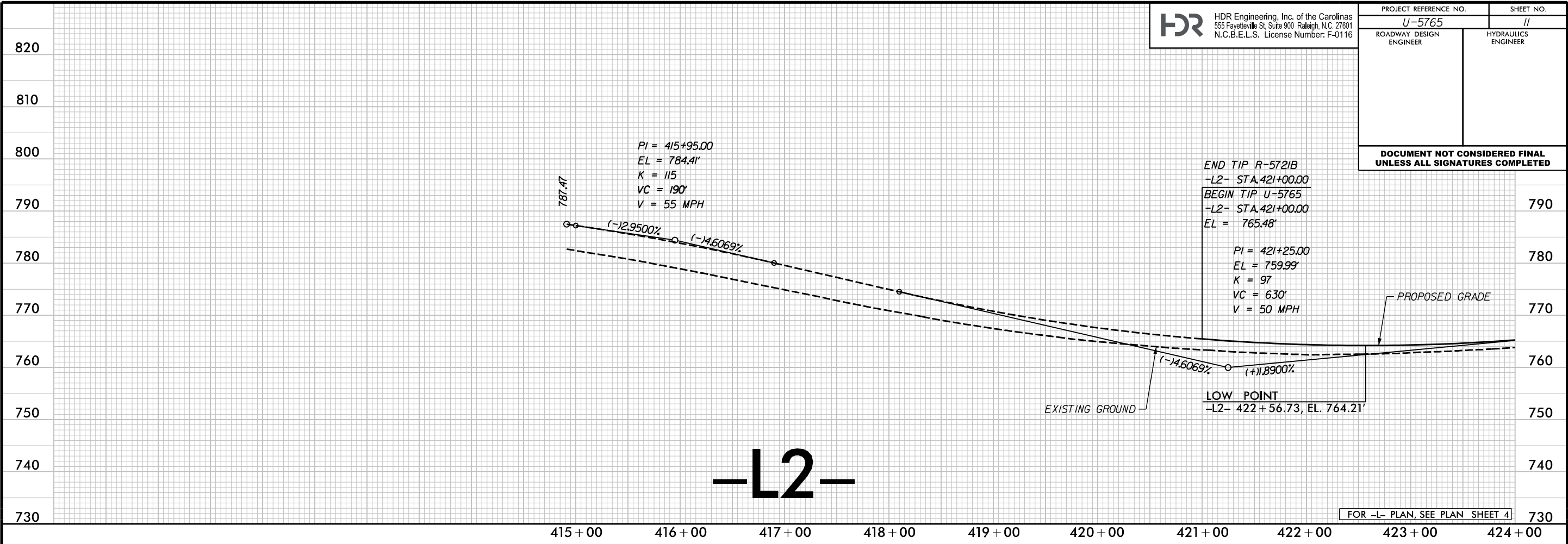
FOR -Y49- PROFILE, SEE PROFILE SHEET 15
 FOR -Y49A- PROFILE, SEE PROFILE SHEET 16
 FOR -RABI- PROFILE, SEE SHEET 17
 FOR -RABI R1- PROFILE, SEE SHEET 17
 FOR -RABI R2- PROFILE, SEE SHEET 17
 FOR -RABI R3- PROFILE, SEE SHEET 17

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PROJECT REFERENCE NO. U-5765		SHEET NO. 11
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	

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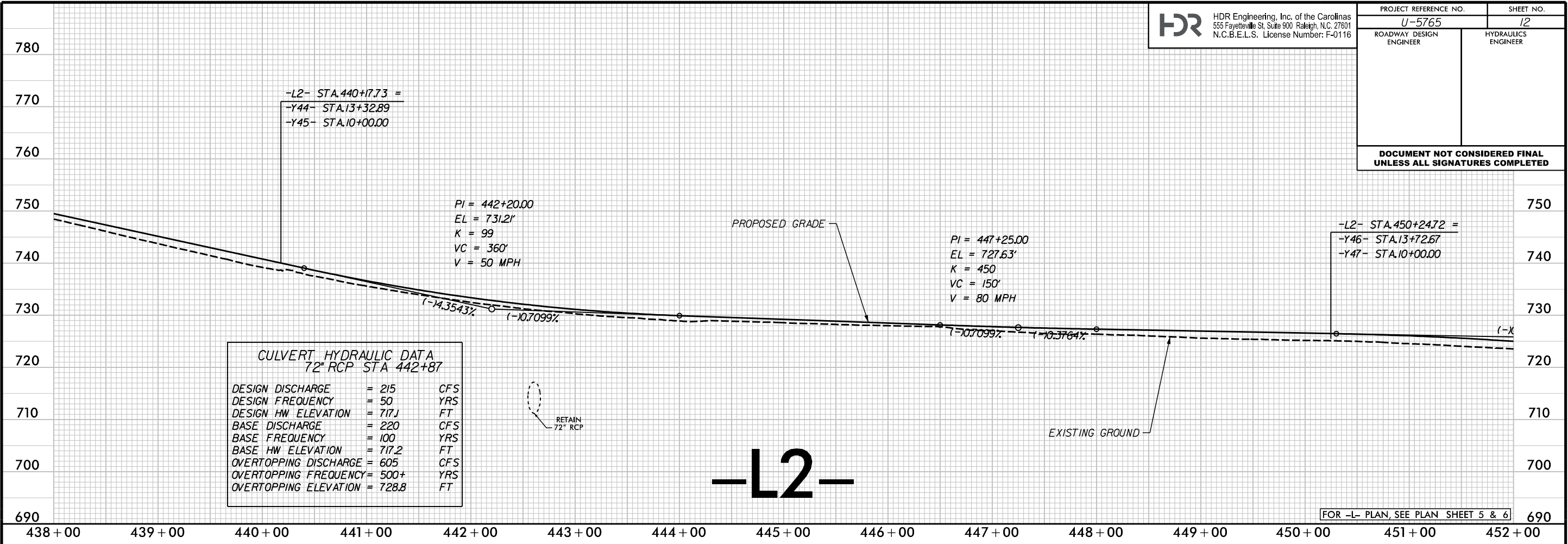


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S:\11\5765\RD1\

5/28/99

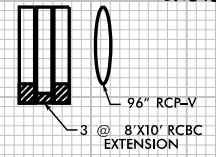
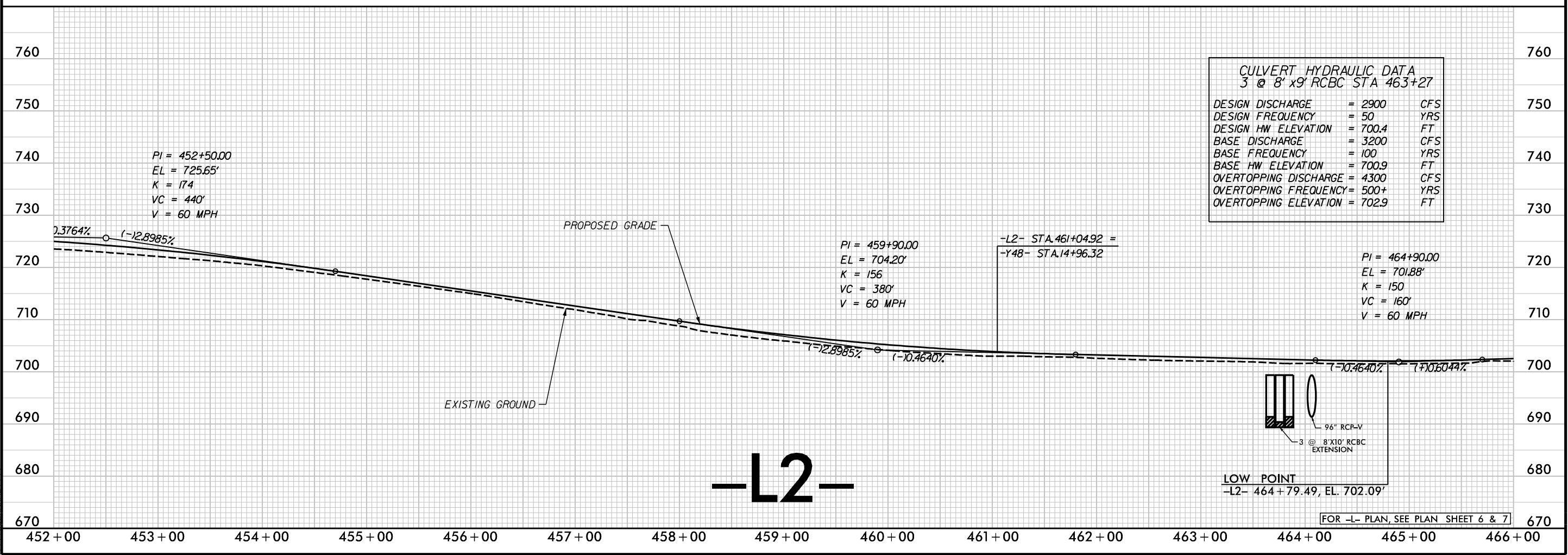
PROJECT REFERENCE NO. U-5765	SHEET NO. 12
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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 UNLESS ALL SIGNATURES COMPLETED**



CULVERT HYDRAULIC DATA	
72" RCP STA 442+87	
DESIGN DISCHARGE	= 215 CFS
DESIGN FREQUENCY	= 50 YRS
DESIGN HW ELEVATION	= 717.1 FT
BASE DISCHARGE	= 220 CFS
BASE FREQUENCY	= 100 YRS
BASE HW ELEVATION	= 717.2 FT
OVERTOPPING DISCHARGE	= 605 CFS
OVERTOPPING FREQUENCY	= 500+ YRS
OVERTOPPING ELEVATION	= 728.8 FT

CULVERT HYDRAULIC DATA	
3 @ 8' x 9' RCBC STA 463+27	
DESIGN DISCHARGE	= 2900 CFS
DESIGN FREQUENCY	= 50 YRS
DESIGN HW ELEVATION	= 700.4 FT
BASE DISCHARGE	= 3200 CFS
BASE FREQUENCY	= 100 YRS
BASE HW ELEVATION	= 700.9 FT
OVERTOPPING DISCHARGE	= 4300 CFS
OVERTOPPING FREQUENCY	= 500+ YRS
OVERTOPPING ELEVATION	= 702.9 FT



LOW POINT
 -L2- 464+79.49, EL. 702.09'

FOR -L- PLAN, SEE PLAN SHEET 6 & 7

12:42:35 PM
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 5/28/99 10:58 AM

5/28/99

PROJECT REFERENCE NO. <i>U-5765</i>	SHEET NO. <i>13</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

CULVERT HYDRAULIC DATA 2 @ 10' x 9' RCBC STA 468+34		
DESIGN DISCHARGE	= 2900	CFS
DESIGN FREQUENCY	= 50	YRS
DESIGN HW ELEVATION	= 700.4	FT
BASE DISCHARGE	= 3200	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 700.9	FT
OVERTOPPING DISCHARGE	= 4300	CFS
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING ELEVATION	= 702.9	FT

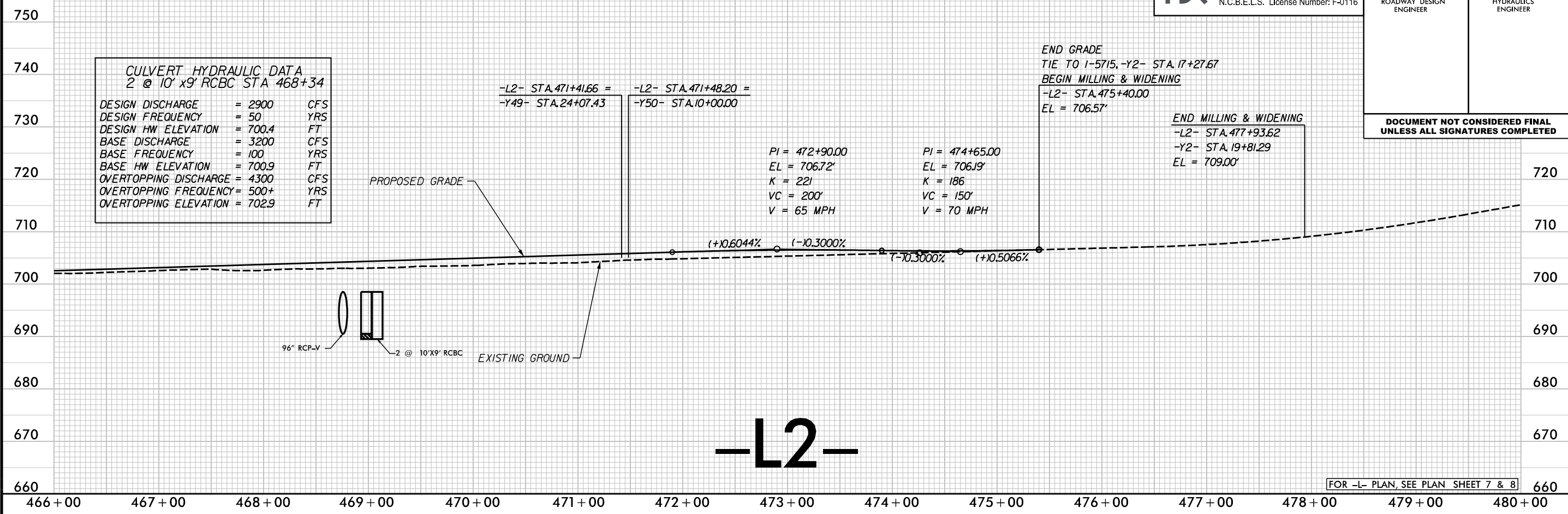
-L2- STA.471+41.66 = -L2- STA.471+48.20 =
 -Y49- STA.24+07.43 -Y50- STA.10+00.00

PI = 472+90.00 EL = 706.72'
 K = 221 VC = 200'
 V = 65 MPH

PI = 474+65.00 EL = 706.19'
 K = 186 VC = 150'
 V = 70 MPH

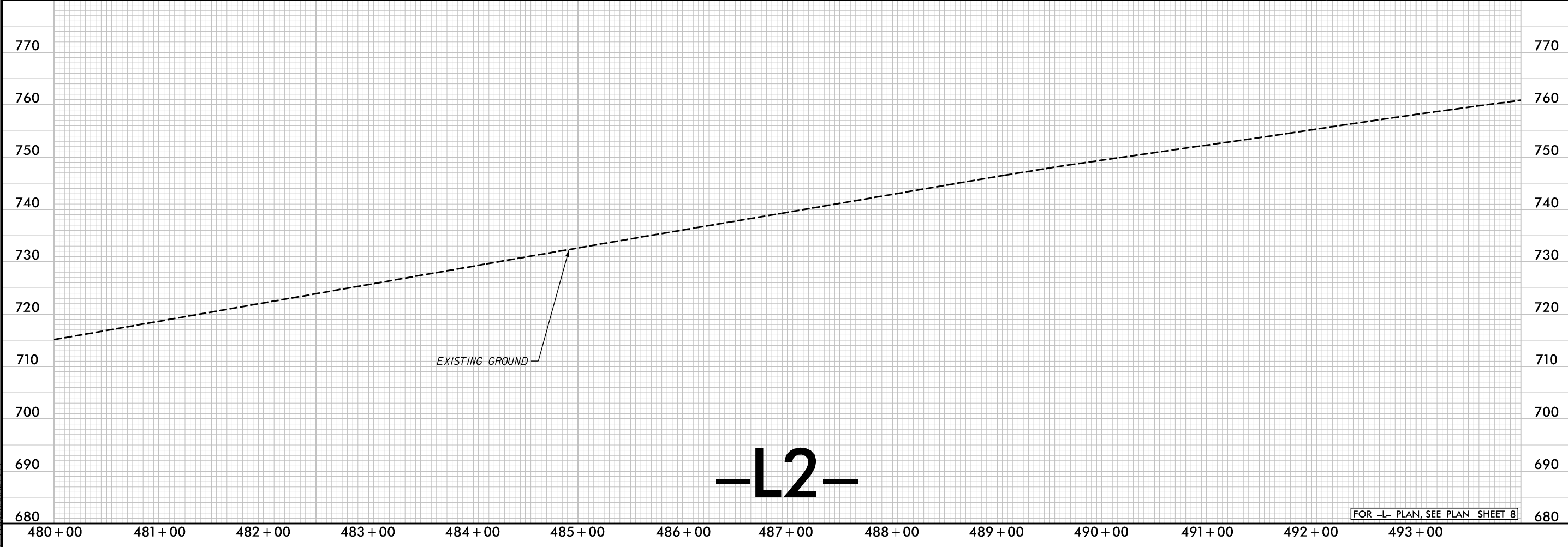
END GRADE
 TIE TO I-5715, -Y2- STA.17+27.67
 BEGIN MILLING & WIDENING
 -L2- STA.475+40.00
 EL = 706.57'

END MILLING & WIDENING
 -L2- STA.477+93.62
 -Y2- STA.19+81.29
 EL = 709.00'



-L2-

FOR -L- PLAN, SEE PLAN SHEET 7 & 8




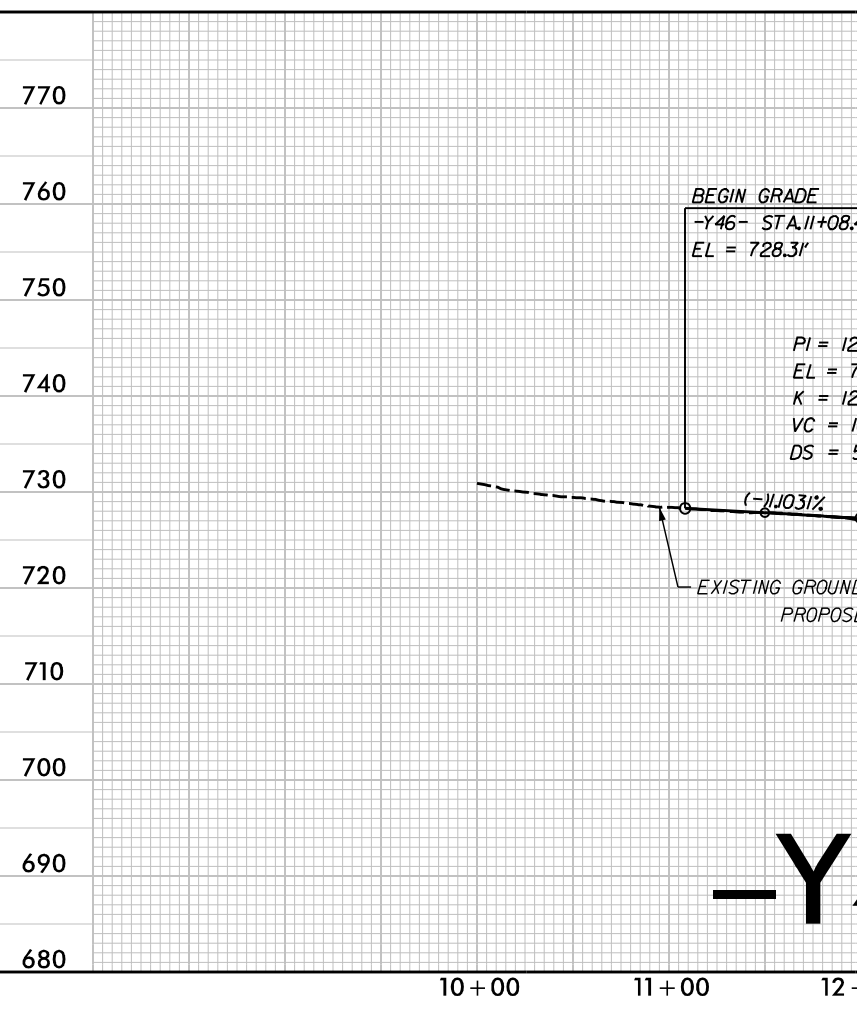
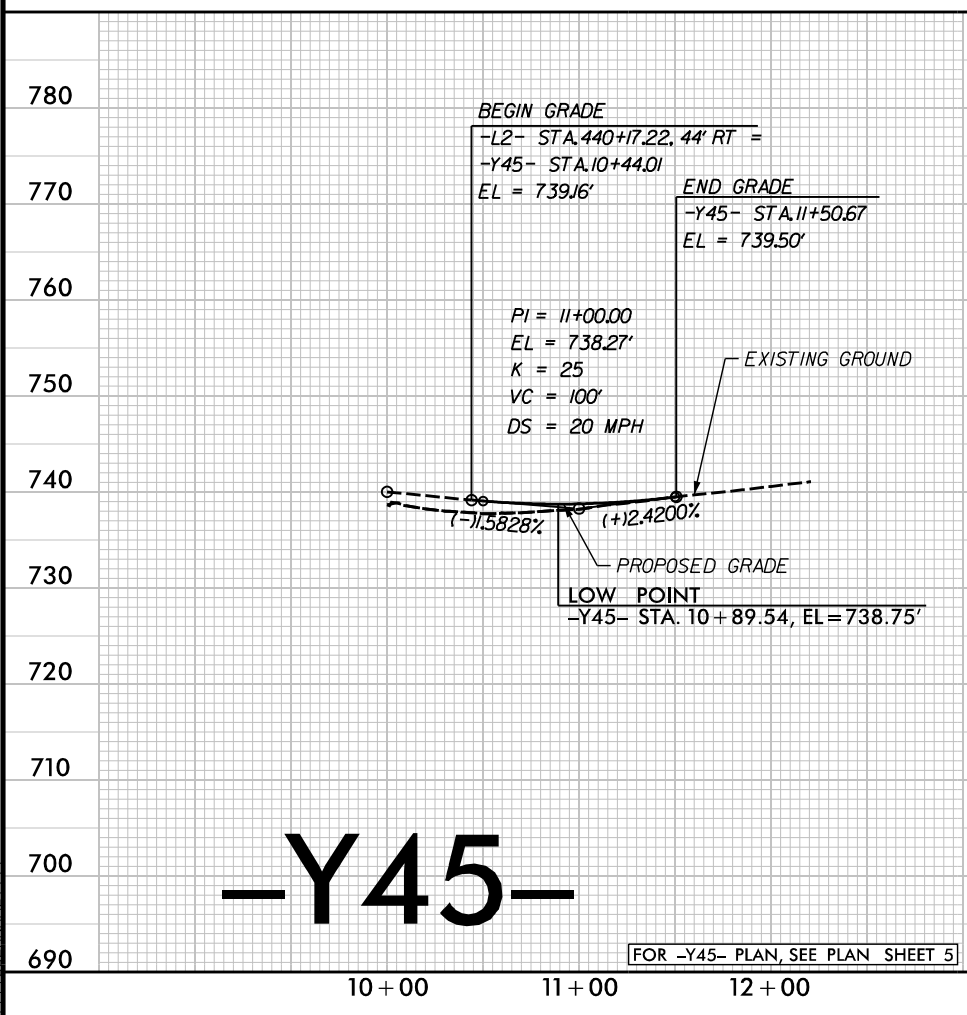
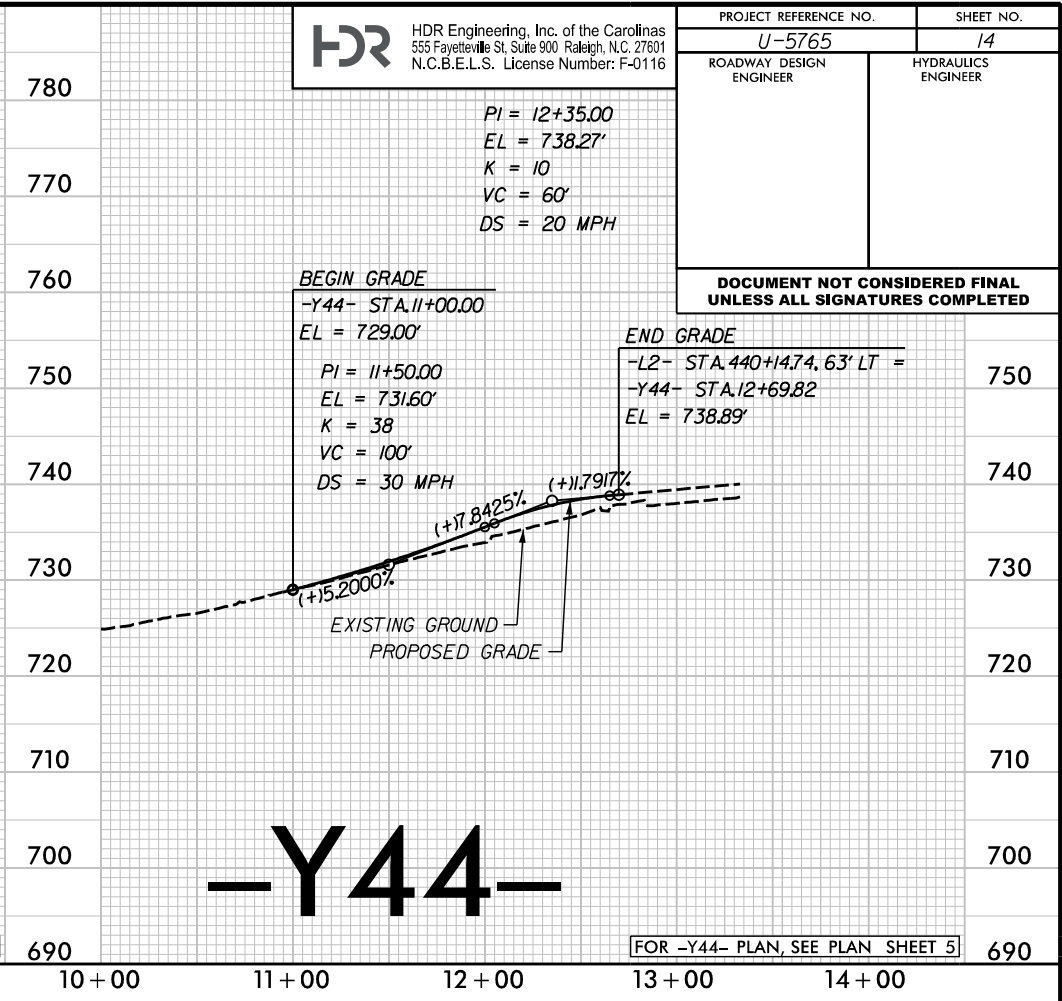
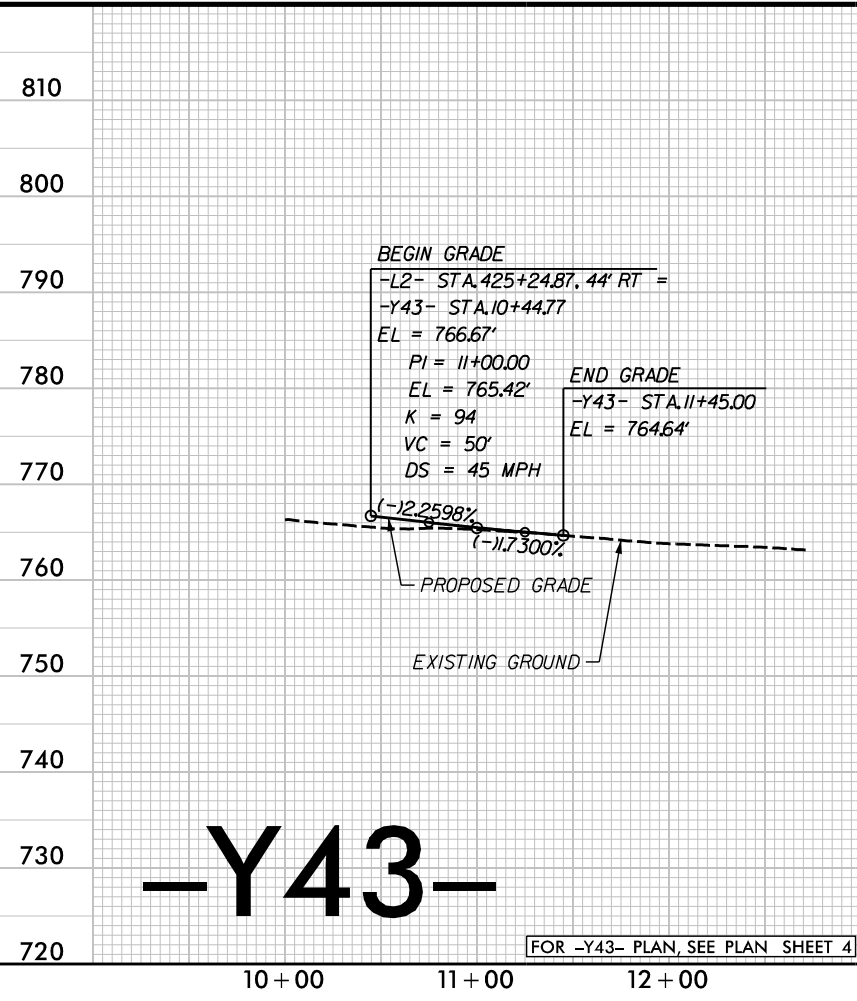
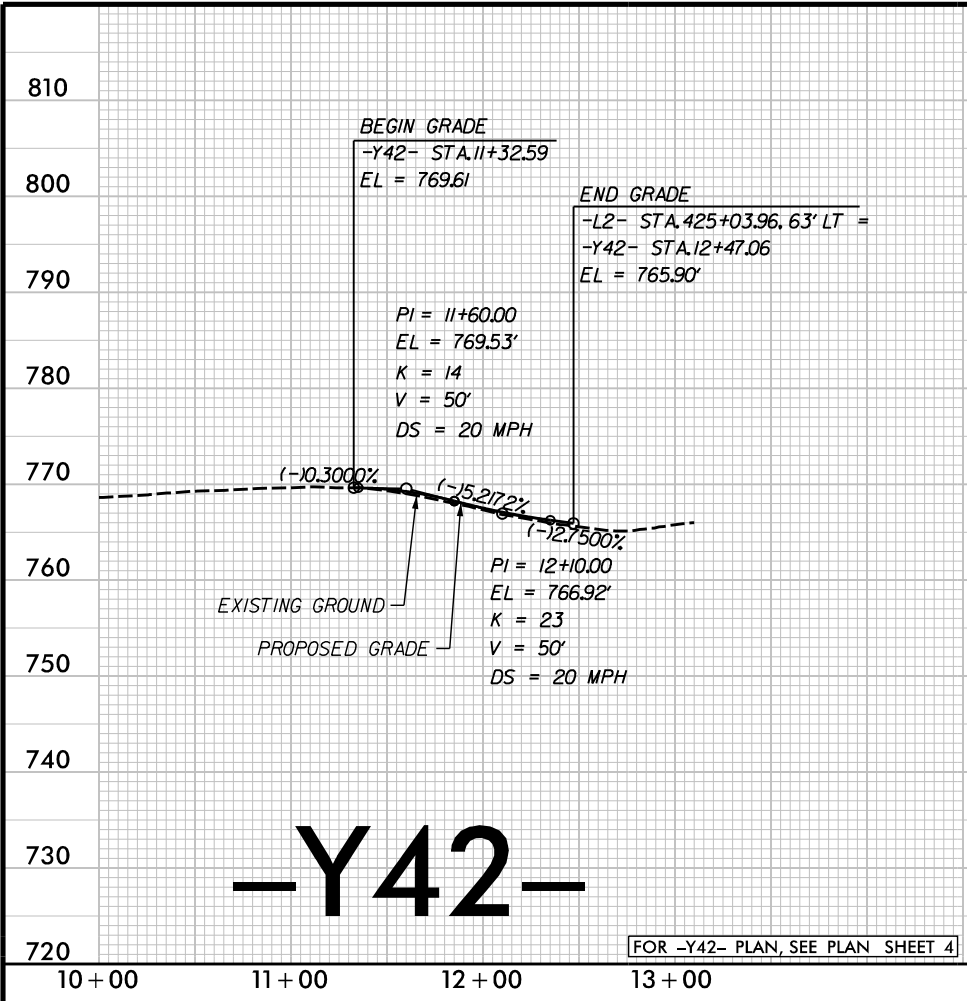
-L2-

FOR -L- PLAN, SEE PLAN SHEET 8

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5/28/99

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	ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
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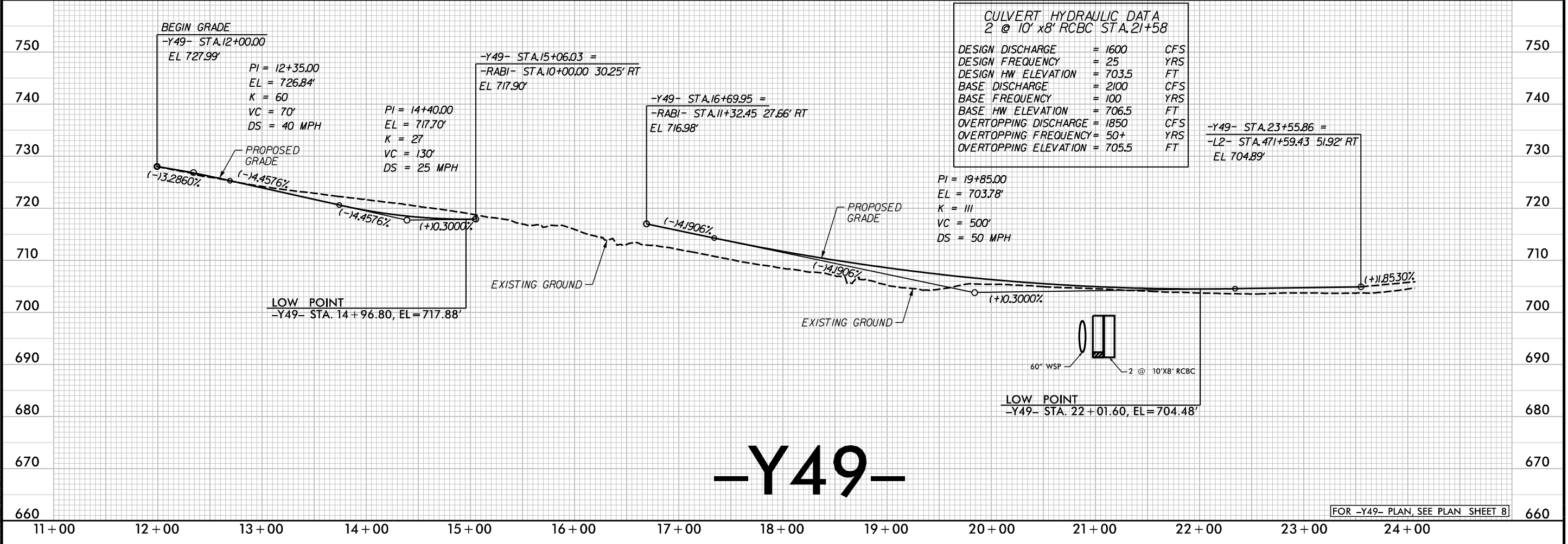
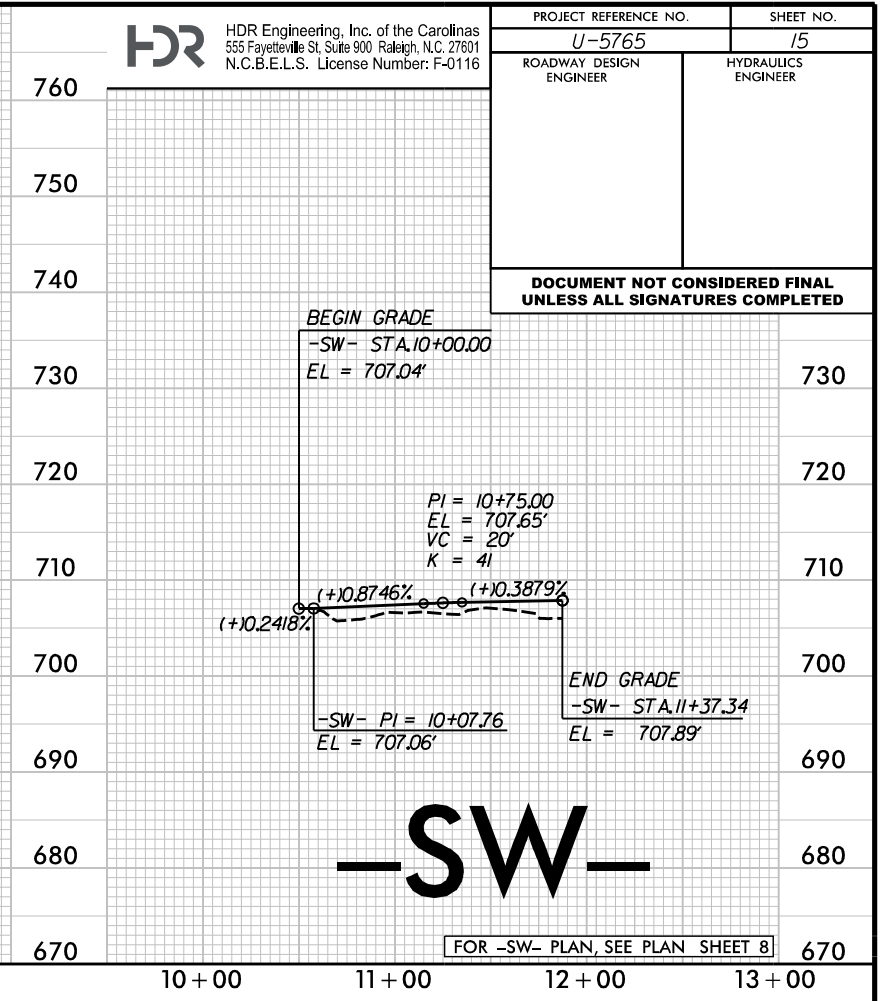
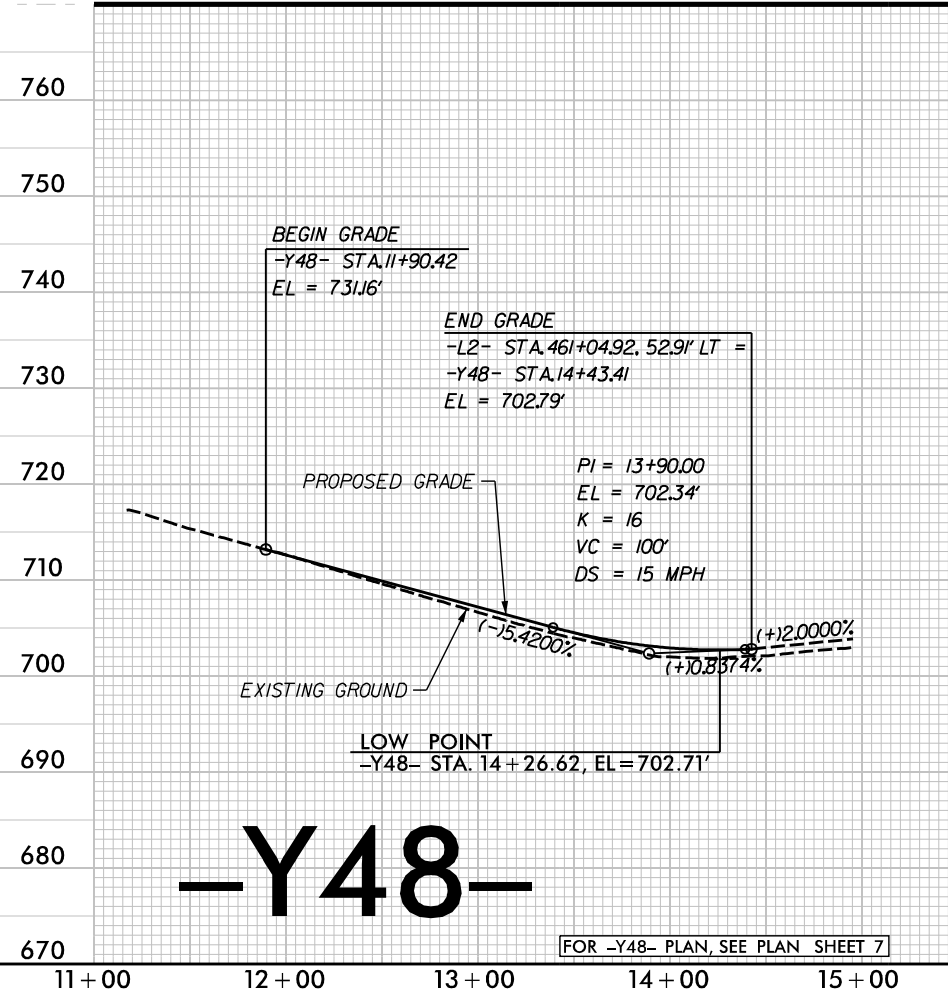
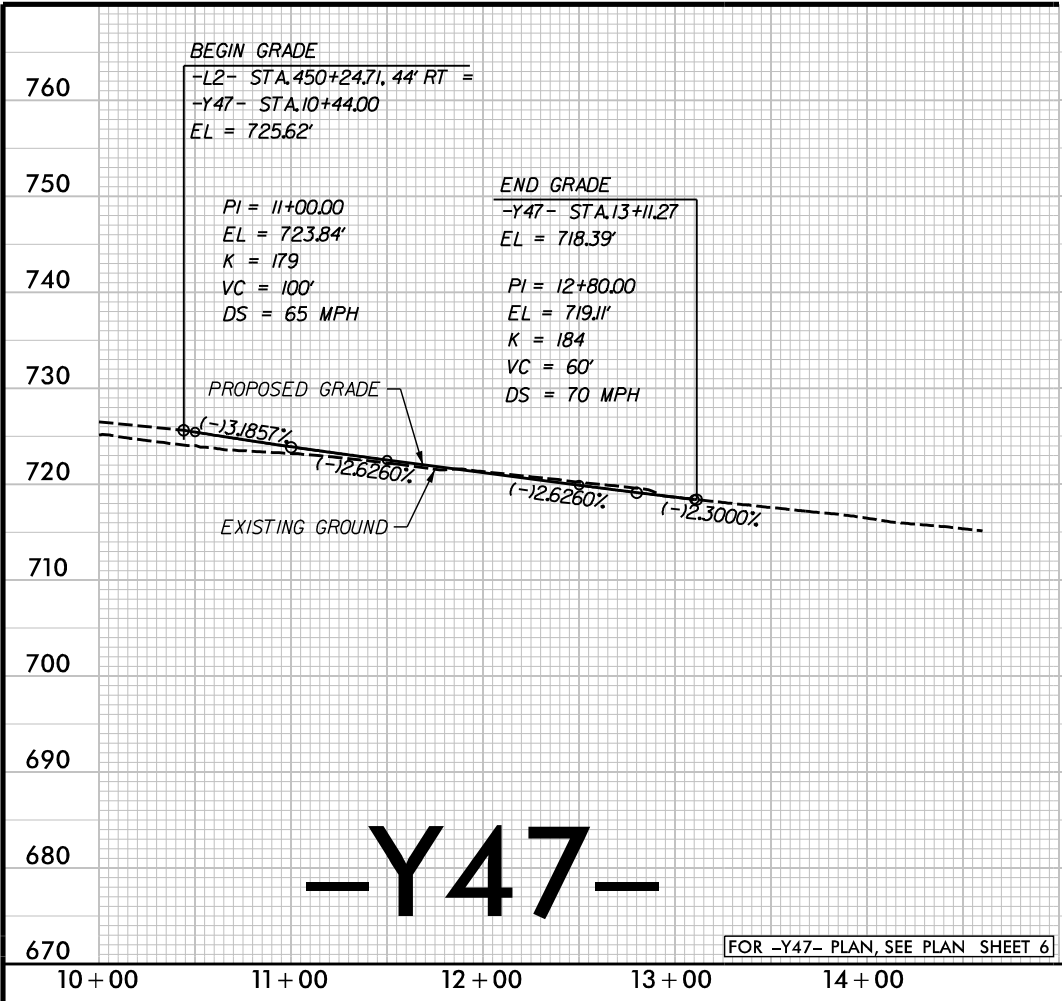
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5/28/99 10:58 AM

5/28/99

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

PROJECT REFERENCE NO. U-5765	SHEET NO. 15
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

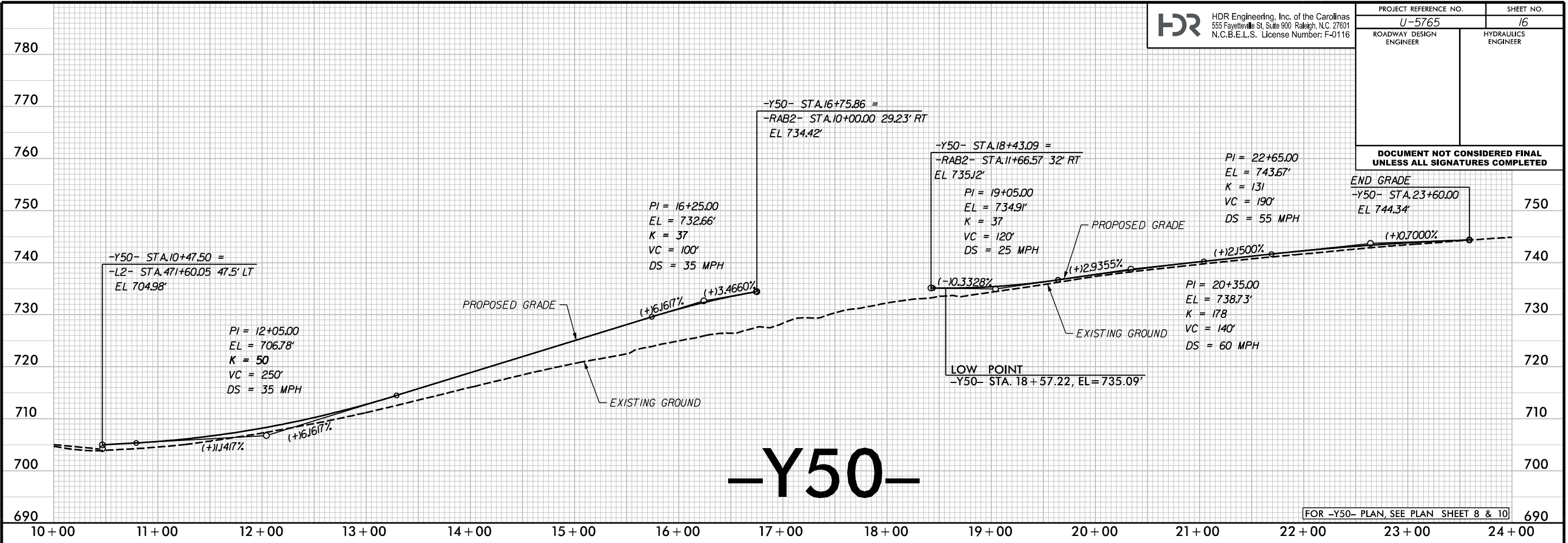
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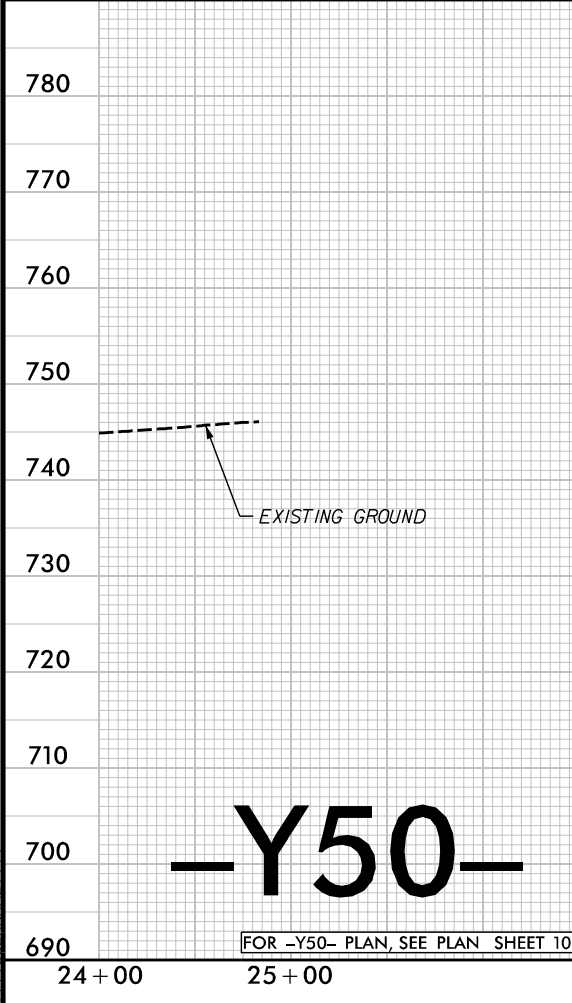
5/28/99

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



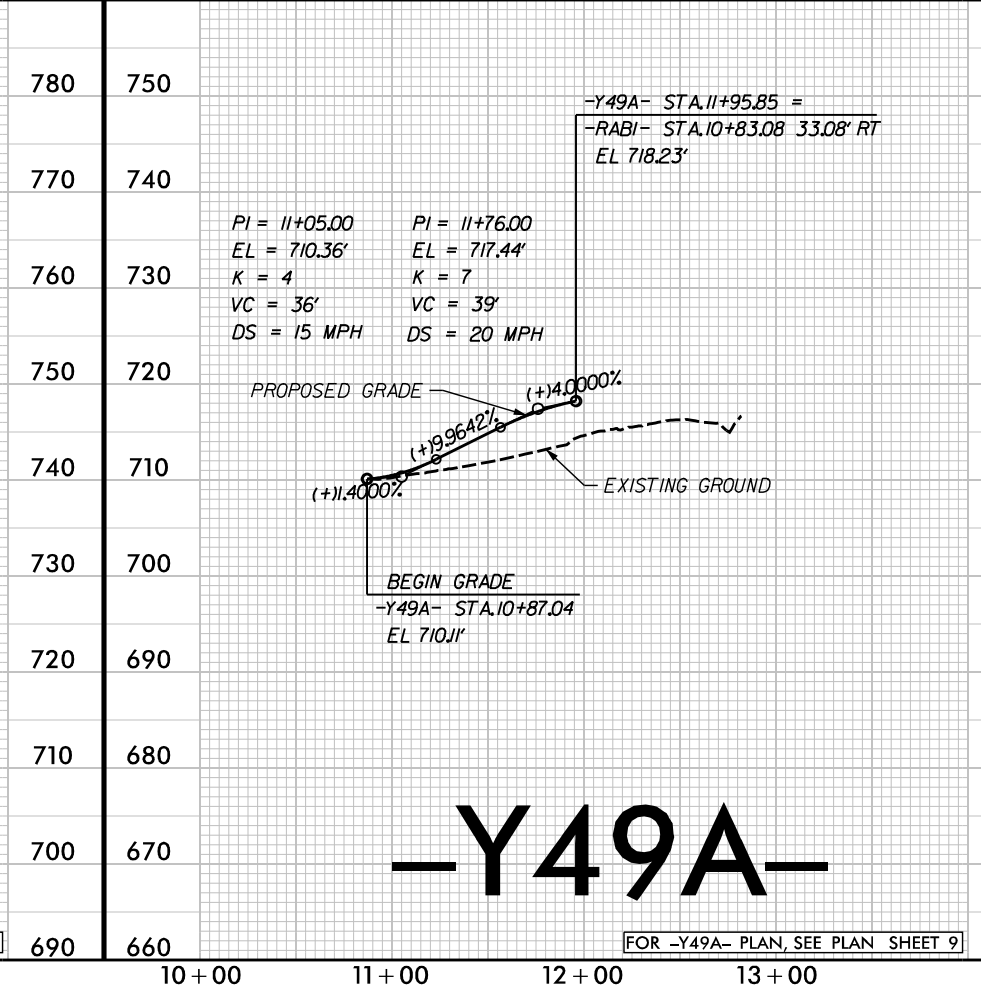
-Y50-

FOR -Y50- PLAN, SEE PLAN SHEET 8 & 10



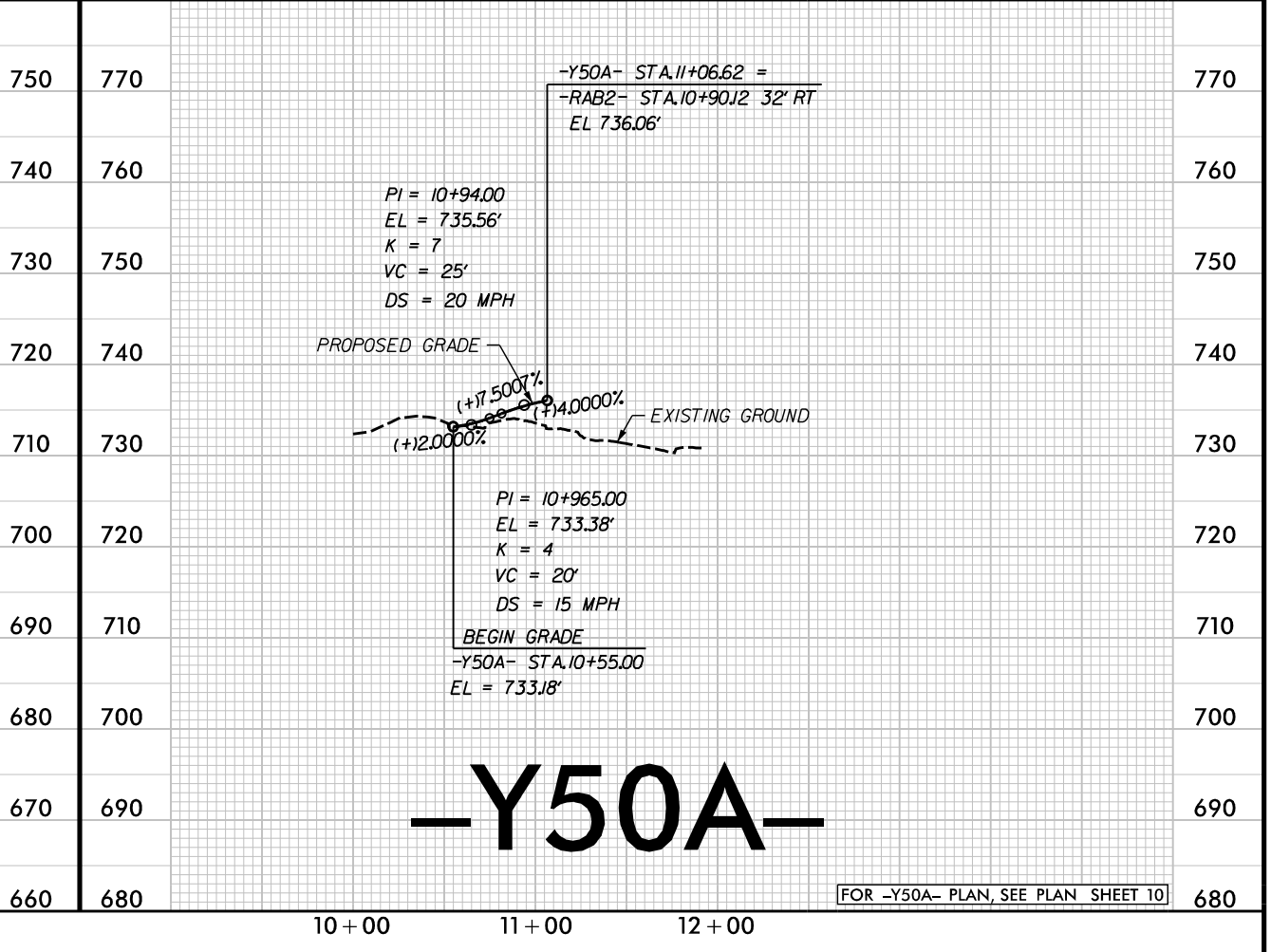
-Y50-

FOR -Y50- PLAN, SEE PLAN SHEET 10



-Y49A-

FOR -Y49A- PLAN, SEE PLAN SHEET 9



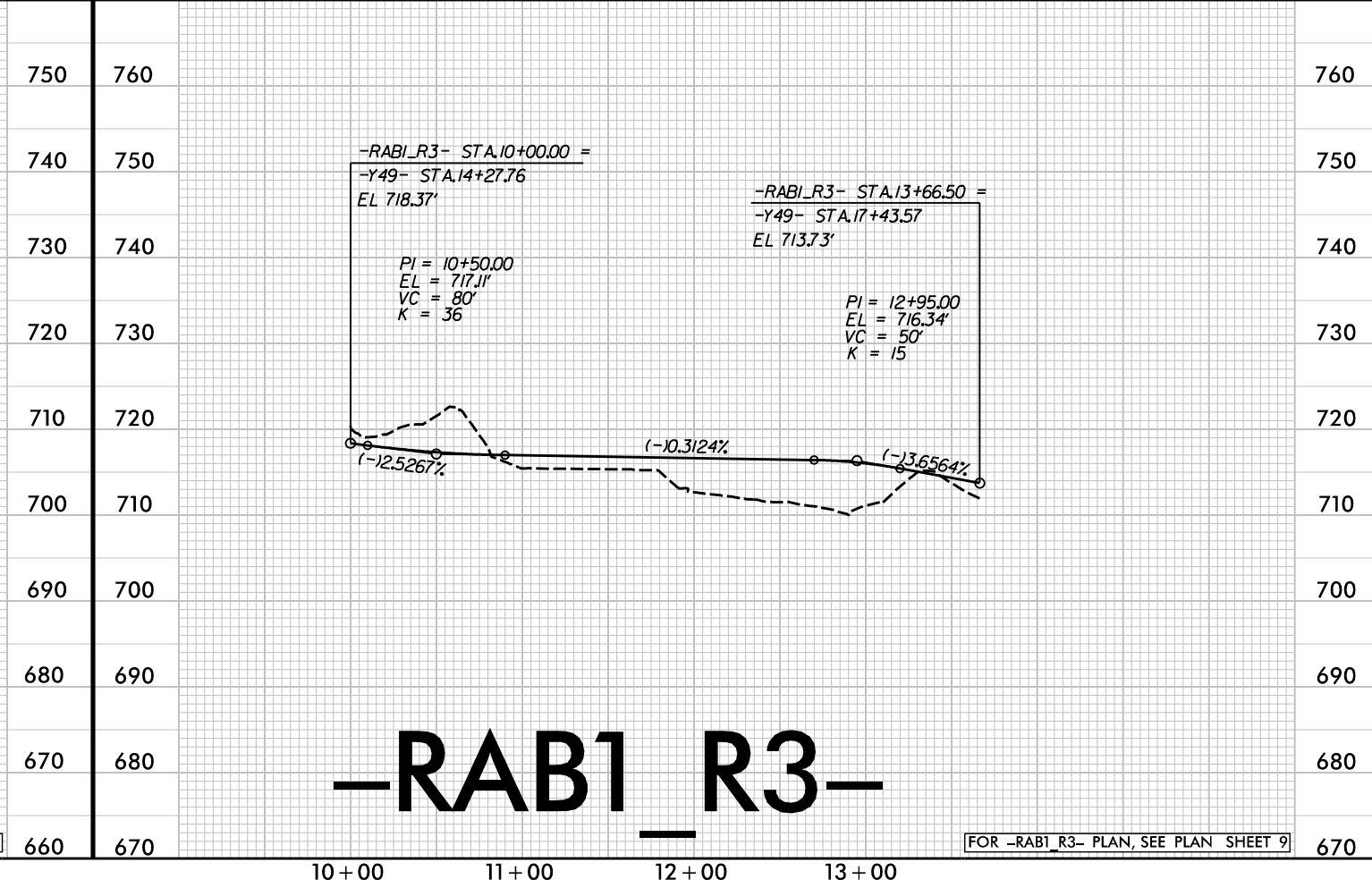
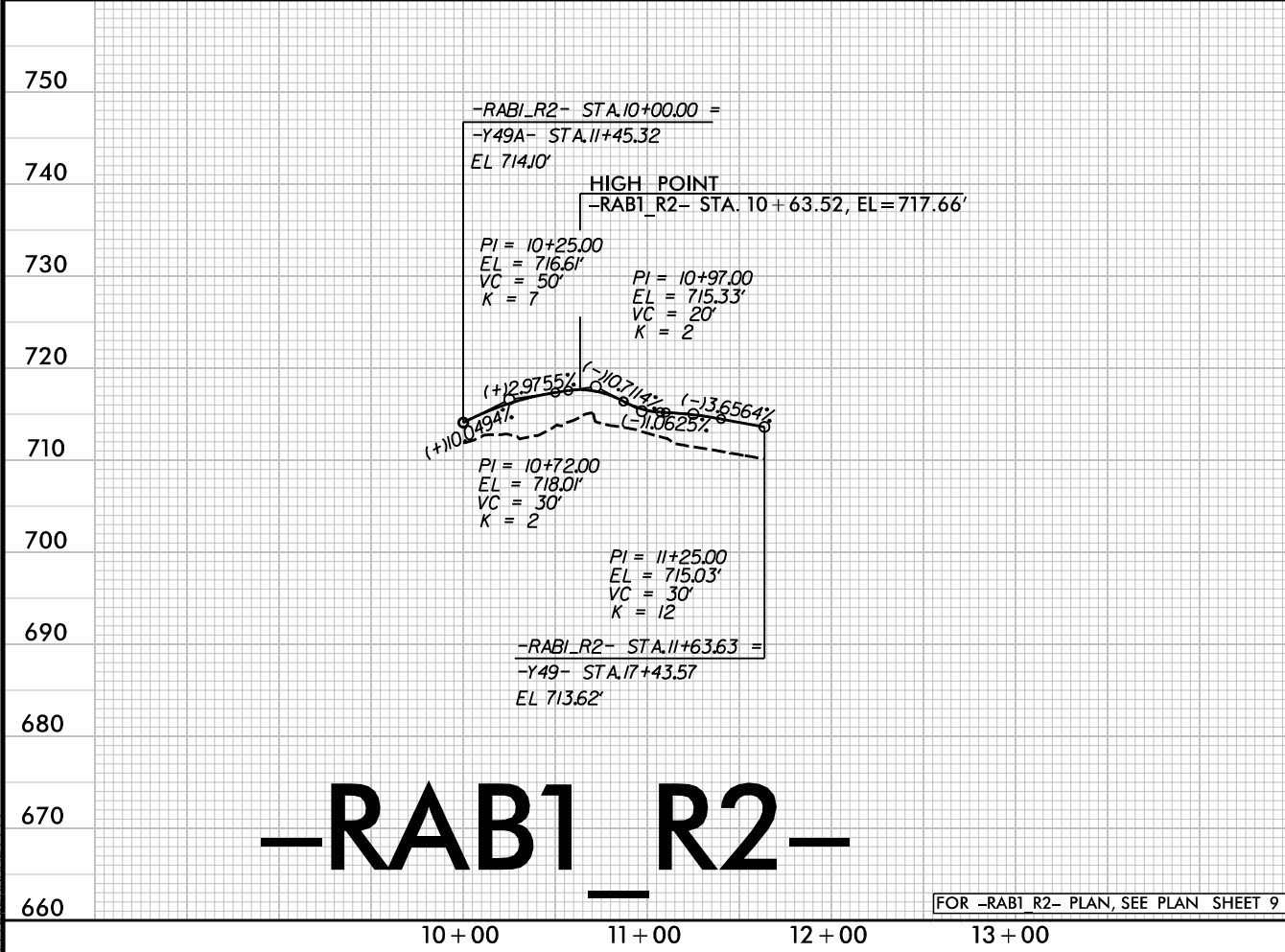
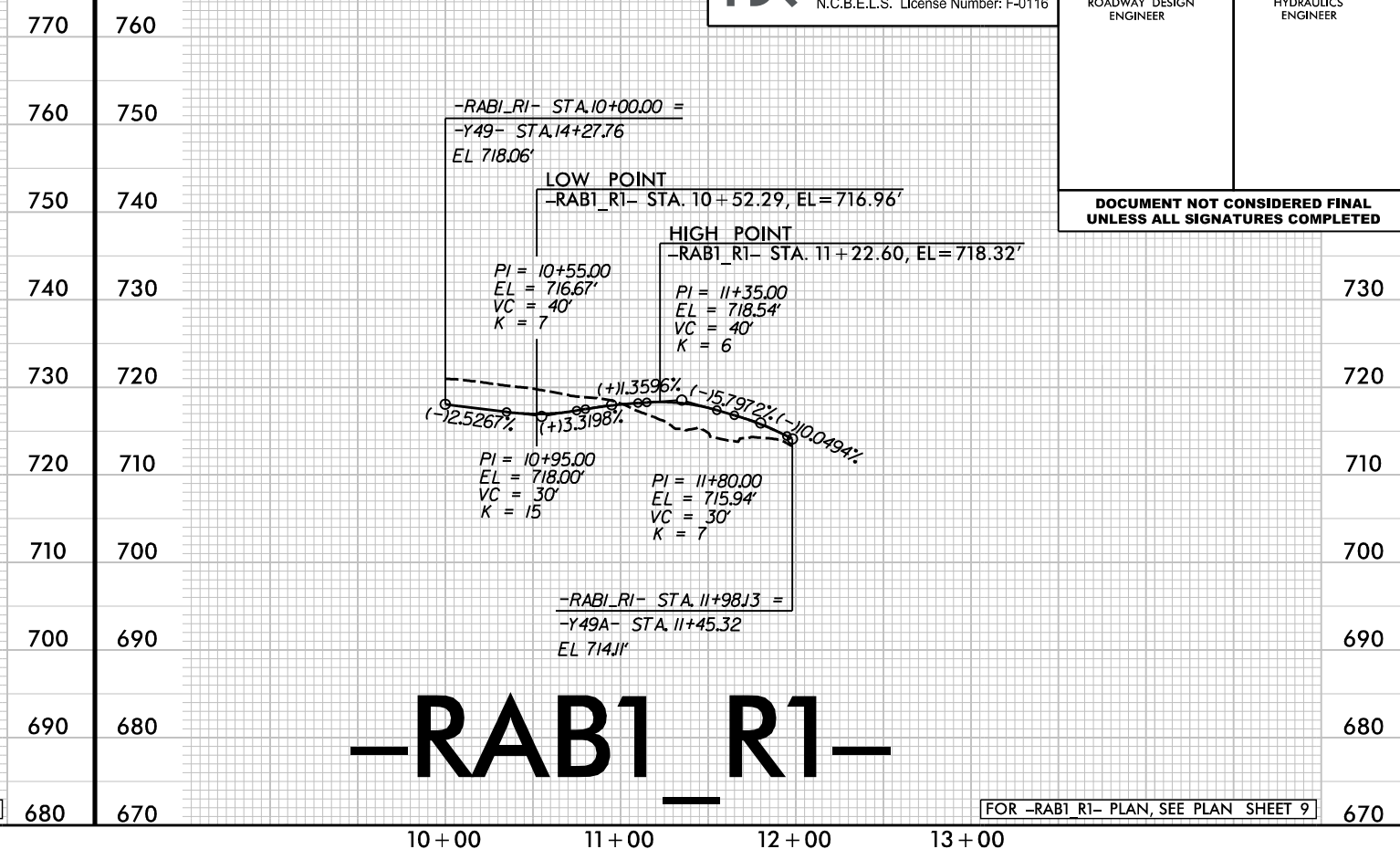
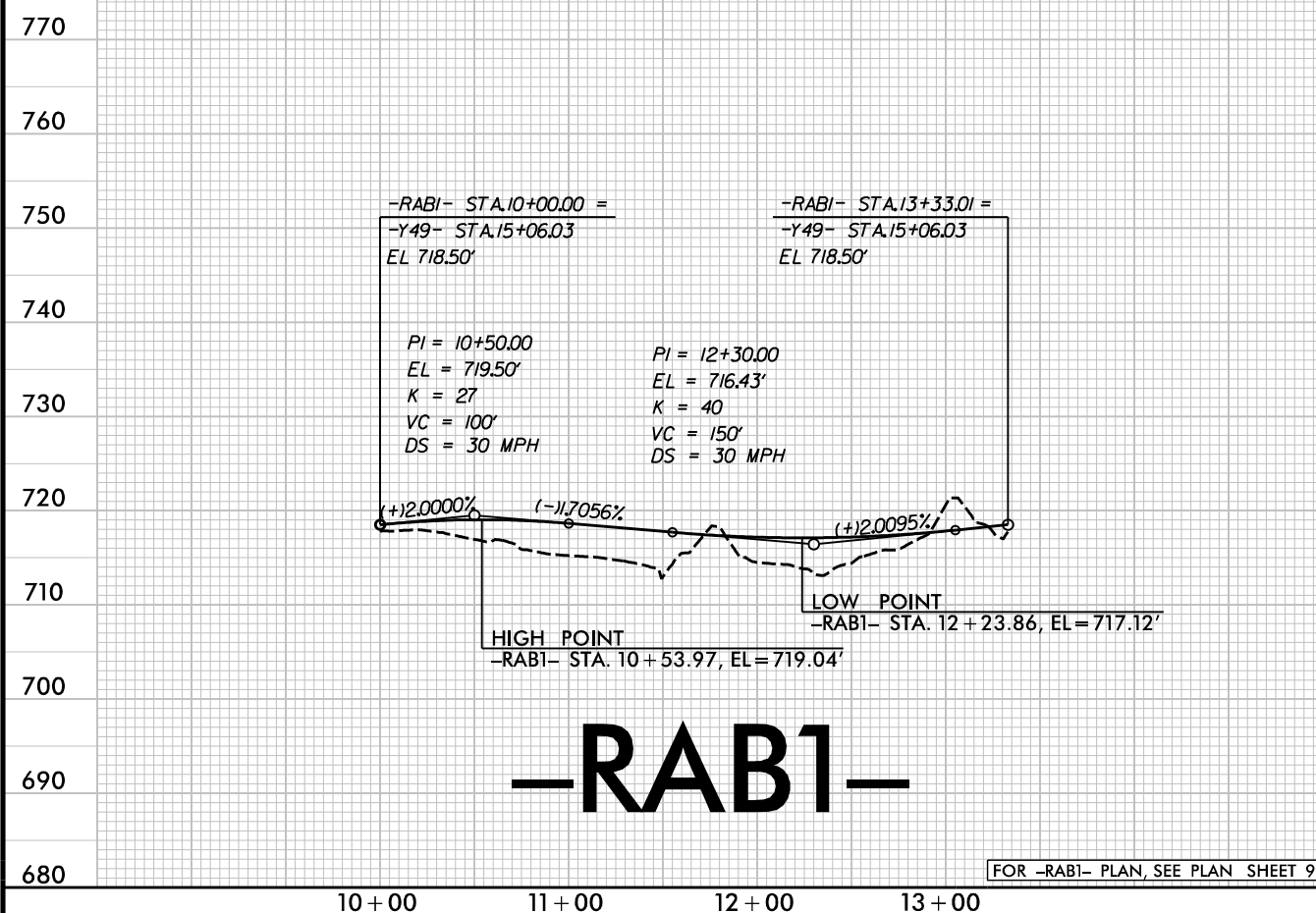
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FOR -Y50A- PLAN, SEE PLAN SHEET 10

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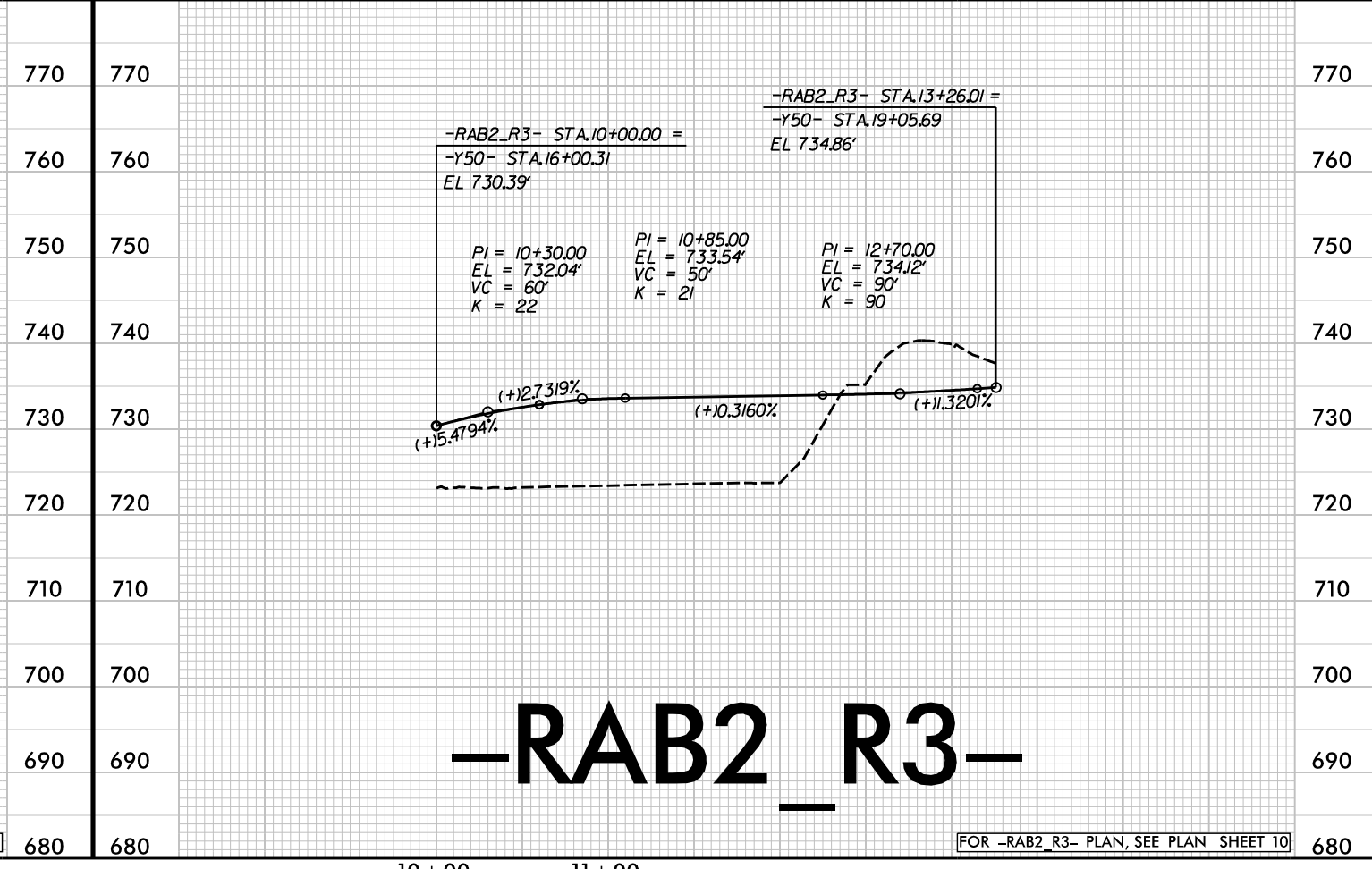
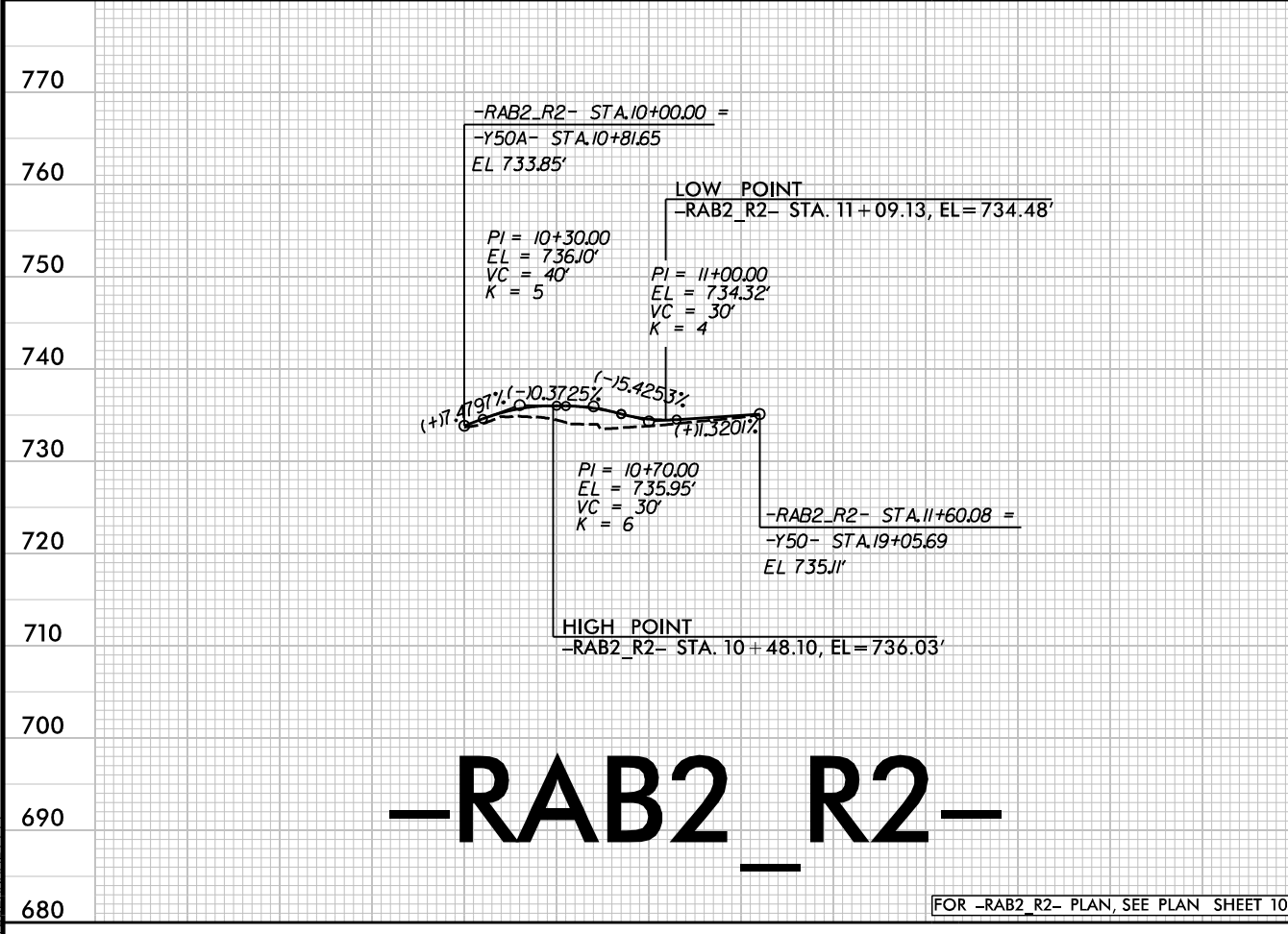
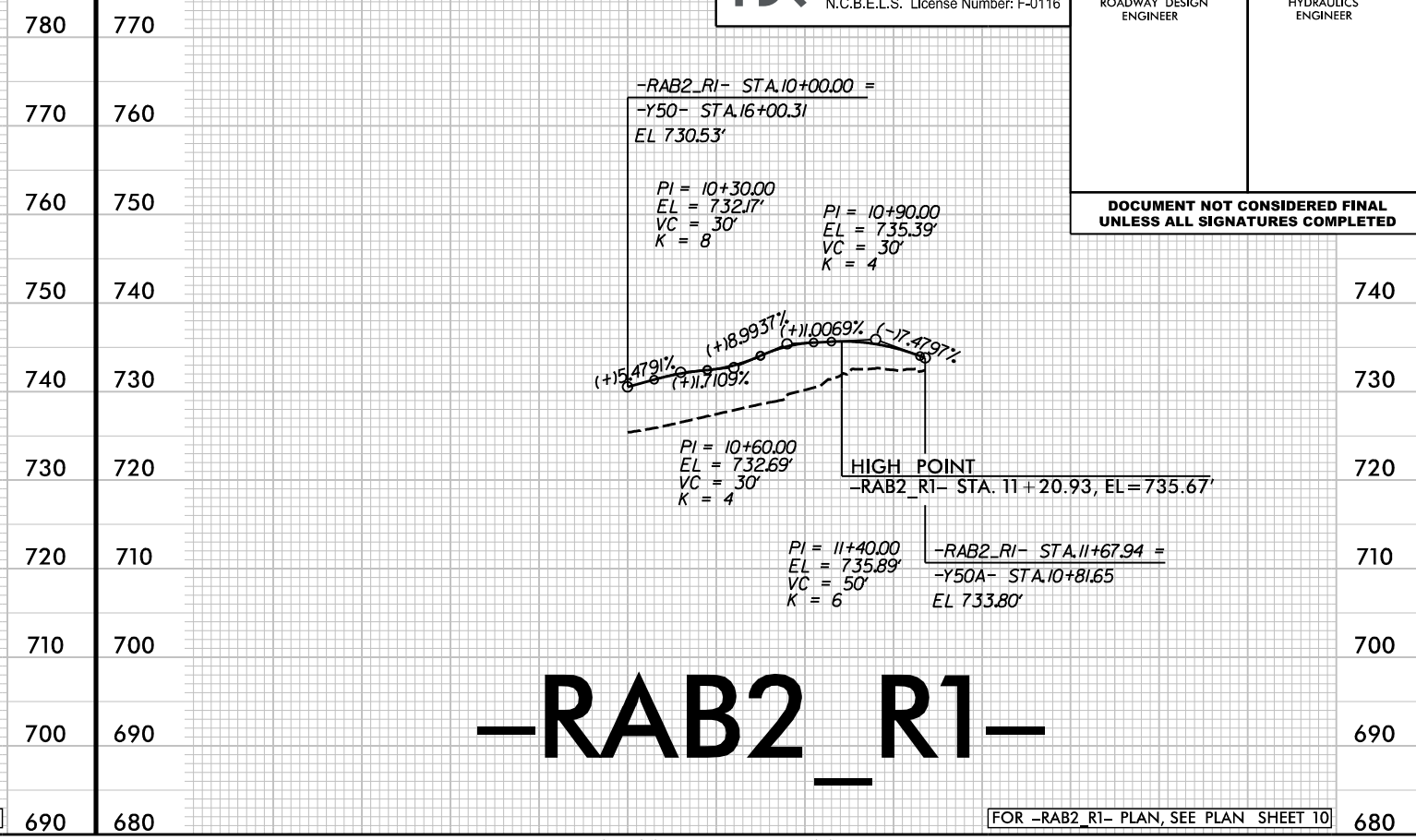
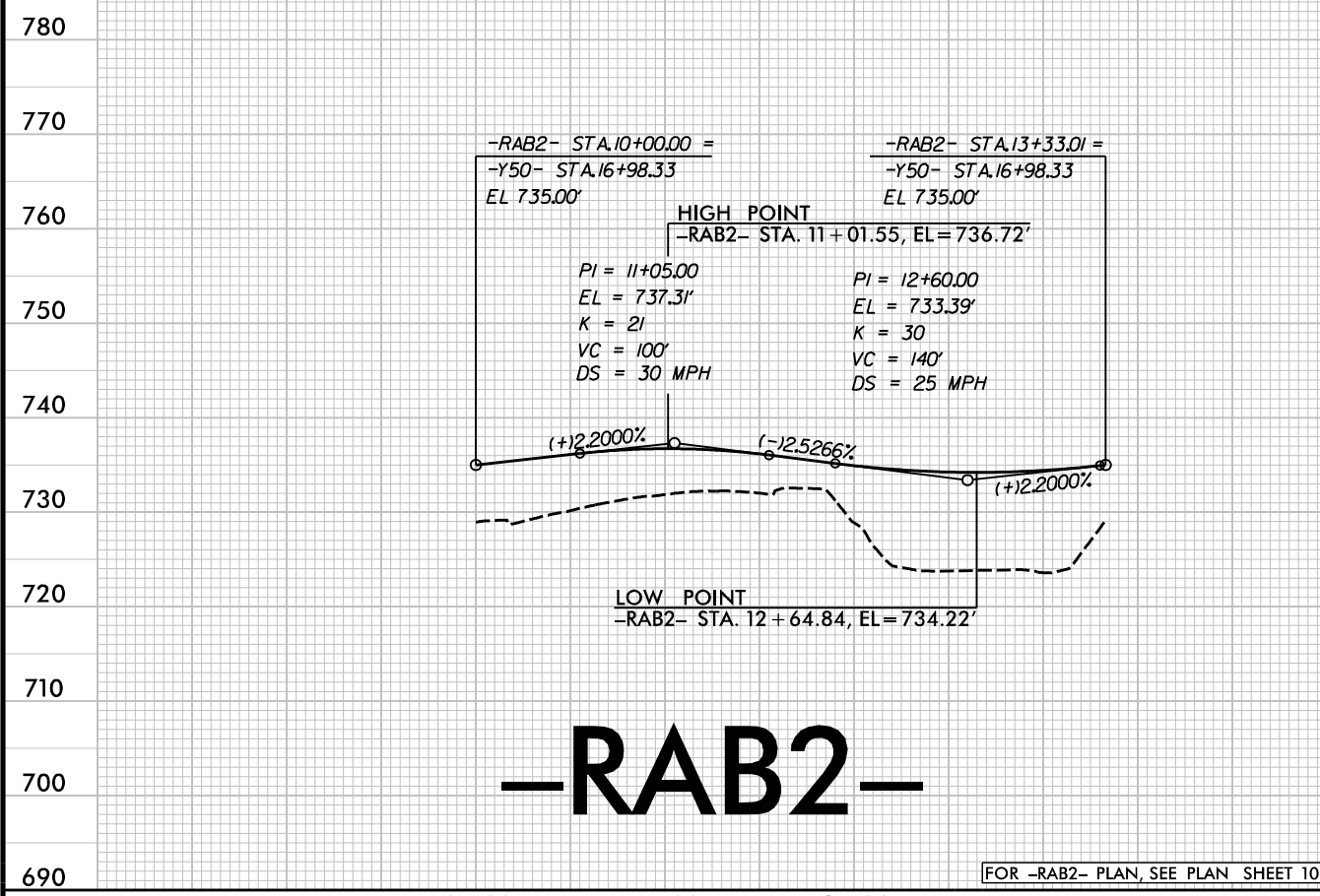
PROJECT REFERENCE NO. U-5765	SHEET NO. 17
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
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5/28/99

PROJECT REFERENCE NO. U-5765	SHEET NO. 18
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



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