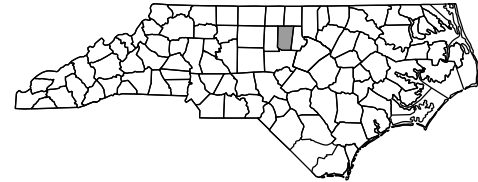
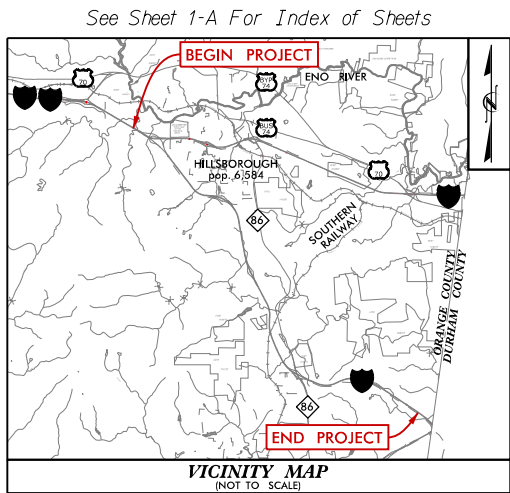


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CONTRACT: C204632 TIP PROJECT: I-3306A / W-5707C



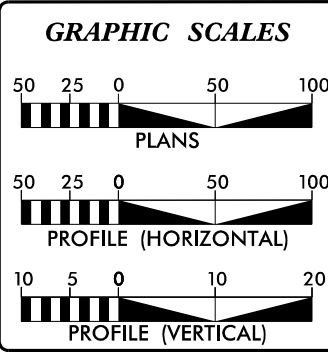
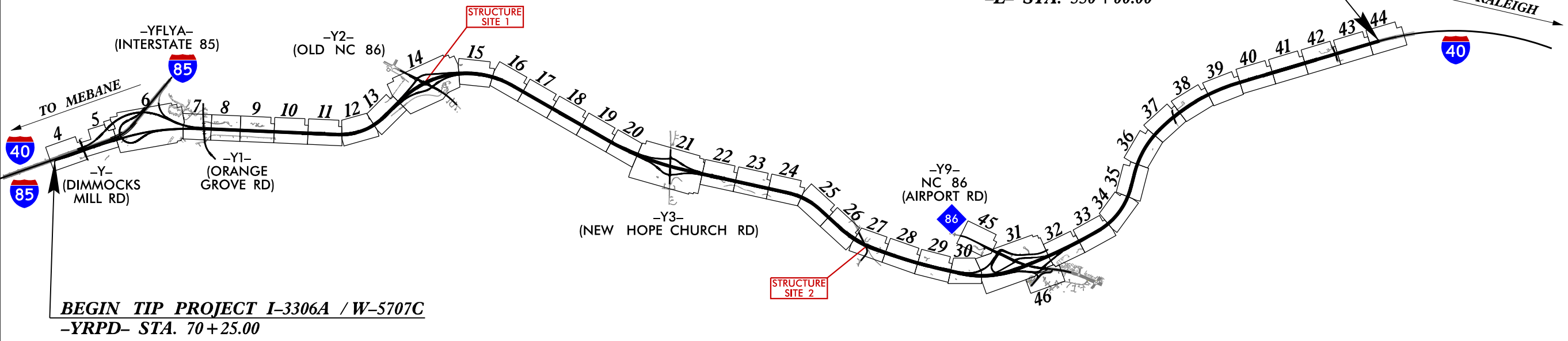
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
ORANGE COUNTY

LOCATION: I-40 WIDENING FROM I-85 IN ORANGE COUNTY TO THE DURHAM COUNTY LINE WITH INTERCHANGE MODIFICATIONS, INCLUDING THE I-40 / NC-86 INTERCHANGE; AND I-40 WESTBOUND TEMPORARY PAVEMENT MARKING AND OVERHEAD LANE USE SIGN MODIFICATIONS NEAR US 15-501 IN DURHAM COUNTY

TYPE OF WORK: DESIGN-BUILD AS SPECIFIED IN THE SCOPE OF WORK CONTAINED IN THE REQUEST FOR PROPOSALS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-3306A / W-5707C	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
34178.3.GV3	N/A	I-3306A & W-5707C	

4B REDLINE DRAINAGE PLANS
1/20/2022



DESIGN DATA

ADT 2019 =	68,200
ADT 2040 =	106,000
K =	6.5 %
D =	60 %
T =	18 % *
V =	70 MPH
*TTST =	11% DUAL = 3%
FUNC CLASS =	INTERSTATE
STATEWIDE TIER	

PROJECT LENGTH

LENGTH ROADWAY -L- (I-40) =	11.304 MILES
LENGTH STRUCTURES -L- (I-40) =	0.096 MILES
TOTAL LENGTH TIP PROJECT I-3306A / W-5707C =	11.40 MILES

NCDOT CONTACT: **RON McCOLLUM, P.E.**
DESIGN-BUILD ASSISTANT MANAGER

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

2018 STANDARD SPECIFICATIONS	
RIGHT OF WAY DATE:	ANTHONY G. THOMPSON, P.E. PROJECT ENGINEER
AUGUST 17, 2021	
LETTING DATE:	CALVIN MOODY, P.E. PROJECT DESIGN ENGINEER
AUGUST 17, 2021	

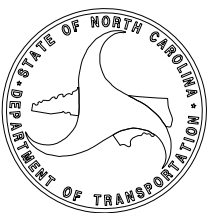
LANE

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

HYDRAULICS ENGINEER

SIGNATURE: _____	P.E.
ROADWAY DESIGN ENGINEER	
SIGNATURE: _____	P.E.



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REVISIONS

P A V E M E N T S C H E D U L E					
A1	11.0" PORTLAND CEMENT CONCRETE PAVEMENT (WITH DOWELS)	C5	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YARD, IN EACH LAYER	R2	5" MONOLITHIC CONCRETE ISLAND (KEYED-IN).
A2	11.0" PORTLAND CEMENT CONCRETE PAVEMENT (WITHOUT DOWELS)	D1	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YARD.	R3	TYPE "T" DOUBLE-FACED CONCRETE MEDIAN BARRIER
A3	12.5" PORTLAND CEMENT CONCRETE PAVEMENT (WITH DOWELS)	D2	PROP. APPROX. 4.0" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YARD.	R4	SHOULDER BERM GUTTER
A4	12.5" PORTLAND CEMENT CONCRETE PAVEMENT (WITHOUT DOWELS)	E1	PROP. APPROX. 3.0" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YARD.	R5	EXPRESSWAY GUTTER
A5	8.0" PORTLAND CEMENT CONCRETE PAVEMENT (WITHOUT DOWELS)	E2	PROP. APPROX. 3.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 399 LBS. PER SQ. YARD.	R6	SINGLE FACED CONCRETE BARRIER
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YARD.	E3	PROP. APPROX. 4.0" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YARD.	T	EARTH MATERIAL.
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YARD.	E4	PROP. APPROX. 5.0" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YARD.	U	EXISTING PAVEMENT.
C3	PROP. APPROX. 3.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YARD, IN EACH OF TWO LAYERS	E5	PROP. APPROX. 10.5" 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 5½" IN DEPTH.	V	RUMBLE STRIPS
C4	PROP. APPROX. 3.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YARD, IN EACH OF TWO LAYERS	K	TYPE 1 AGGREGATE SUBGRADE STABILIZATION	W	WEDGING
NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.		R1	2'-6" CONCRETE CURB AND GUTTER.	Y	1.5" MILLING
				Y1	3.0" MILLING

PROJECT REFERENCE NO.
I-3306 / W-5707C

SHEET NO.
2A-1

RW SHEET NO.

ROADWAY DESIGN ENGINEER

HYDRAULICS ENGINEER

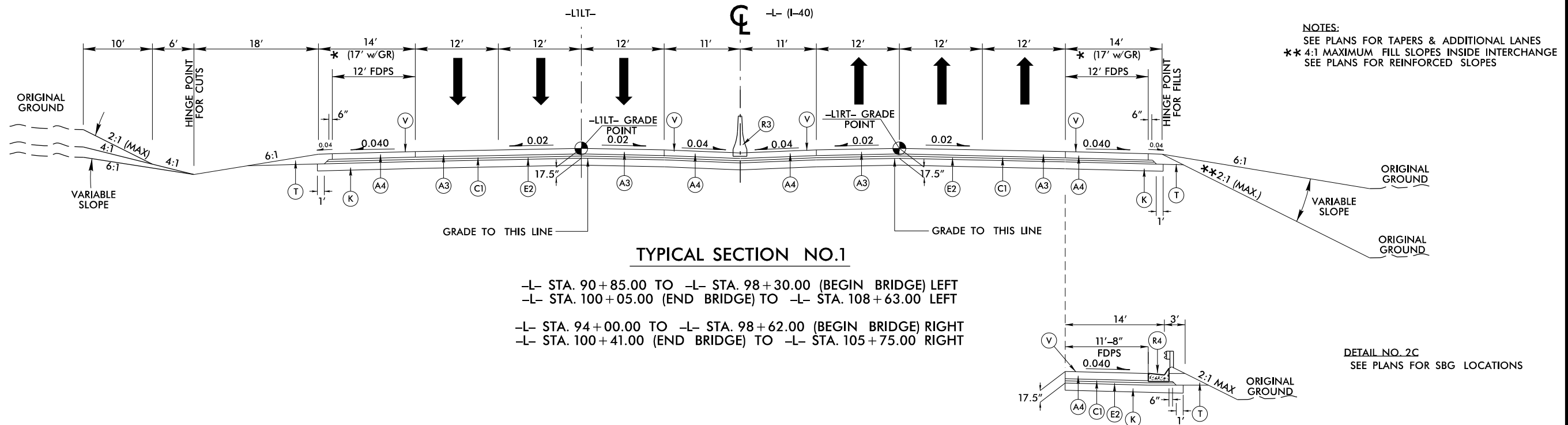
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

lane

HDR

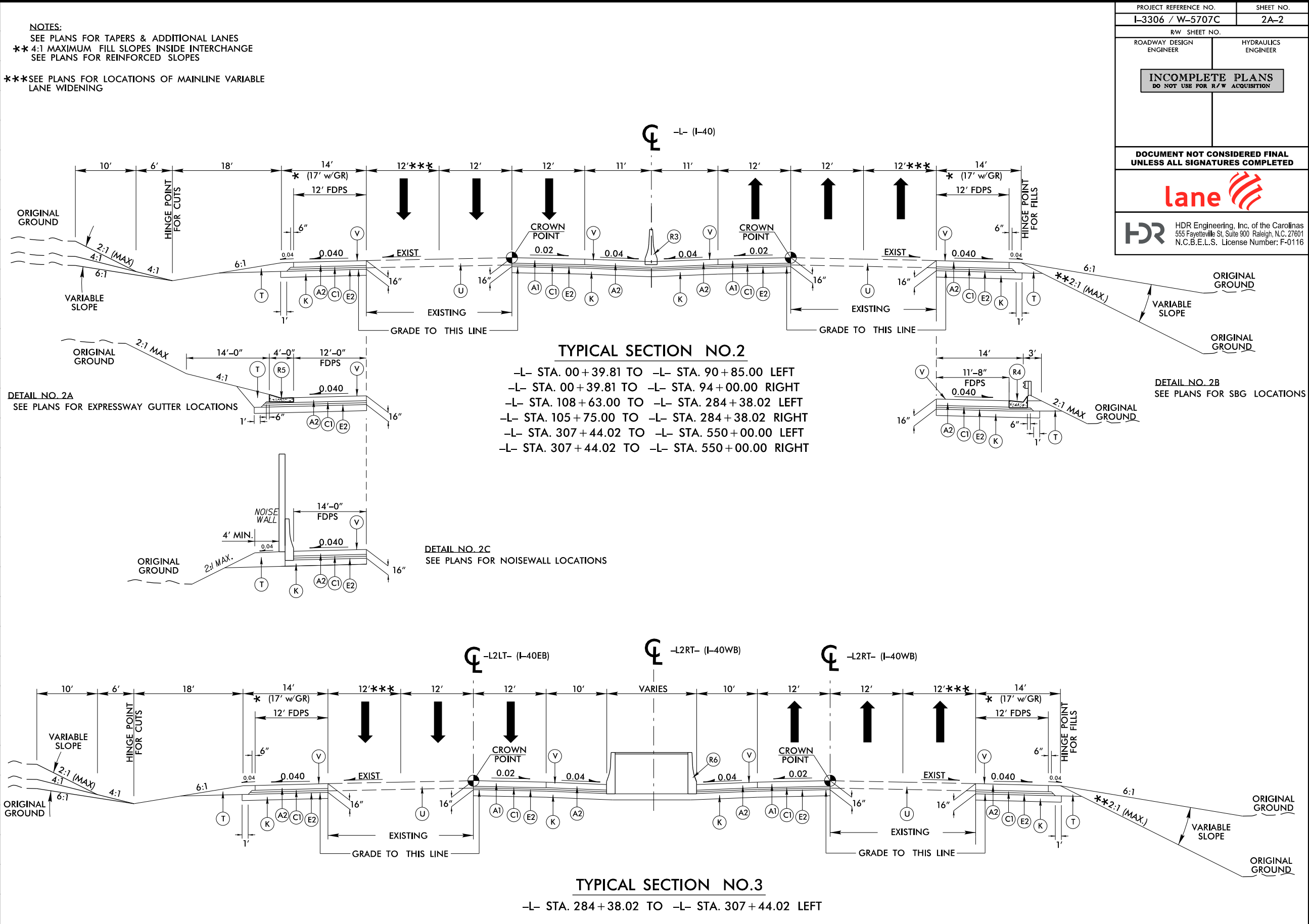
HDR Engineering, Inc. of the Carolinas
555 Fayetteville St, Suite 900 Raleigh, N.C. 27601
N.C.B.E.L.S. License Number: F-0116



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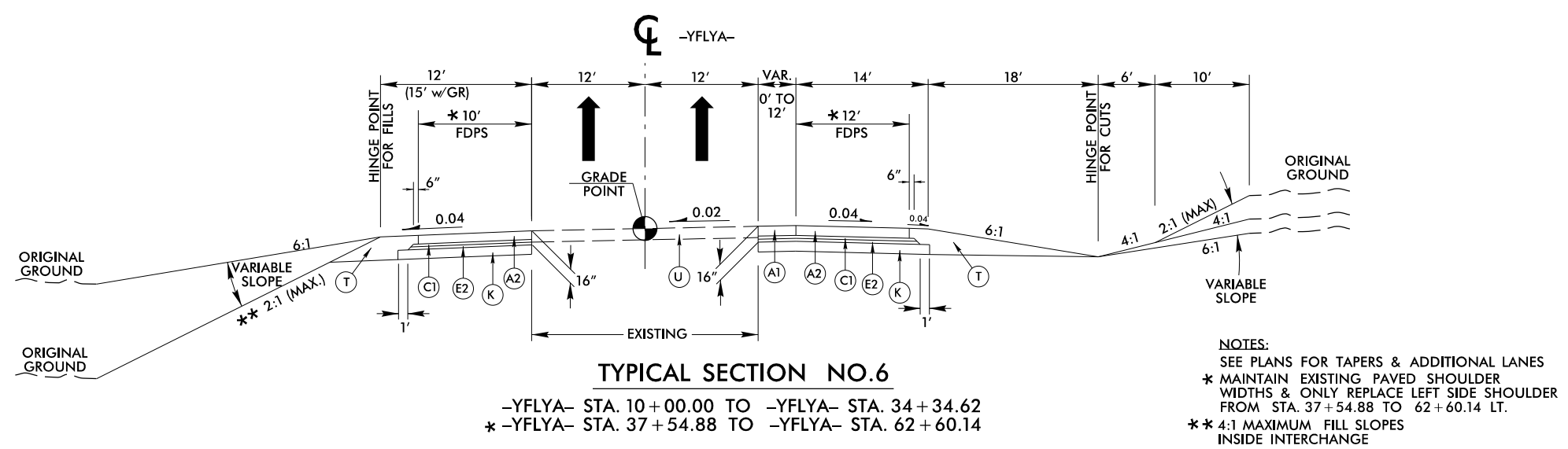
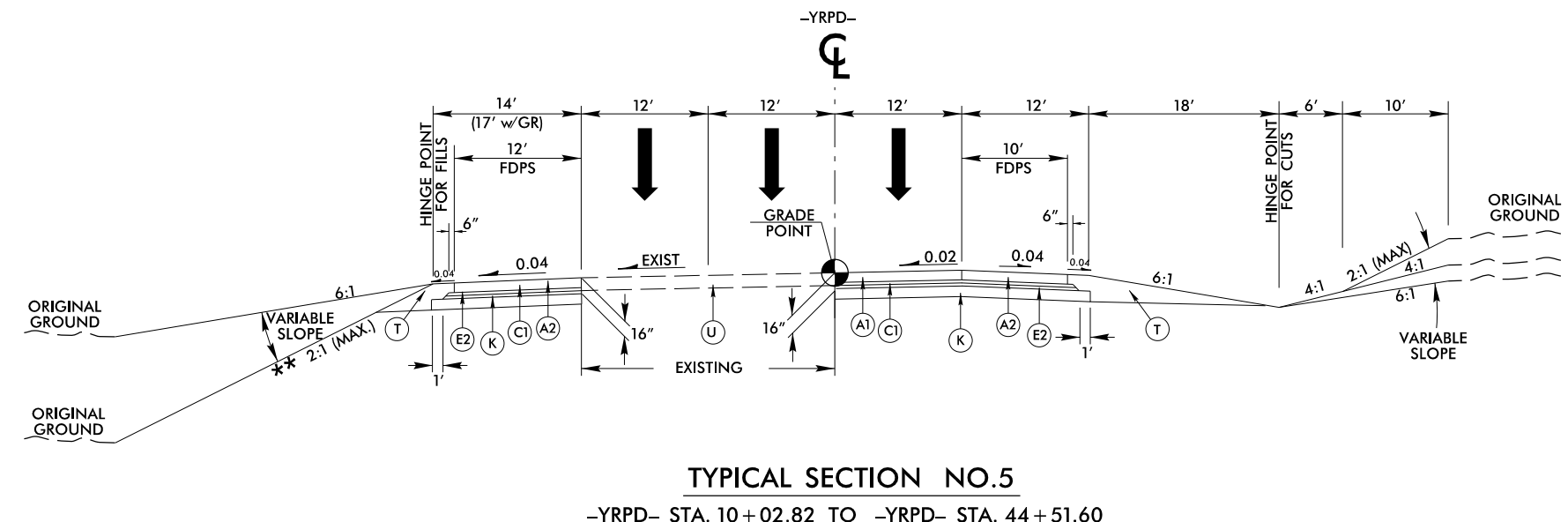
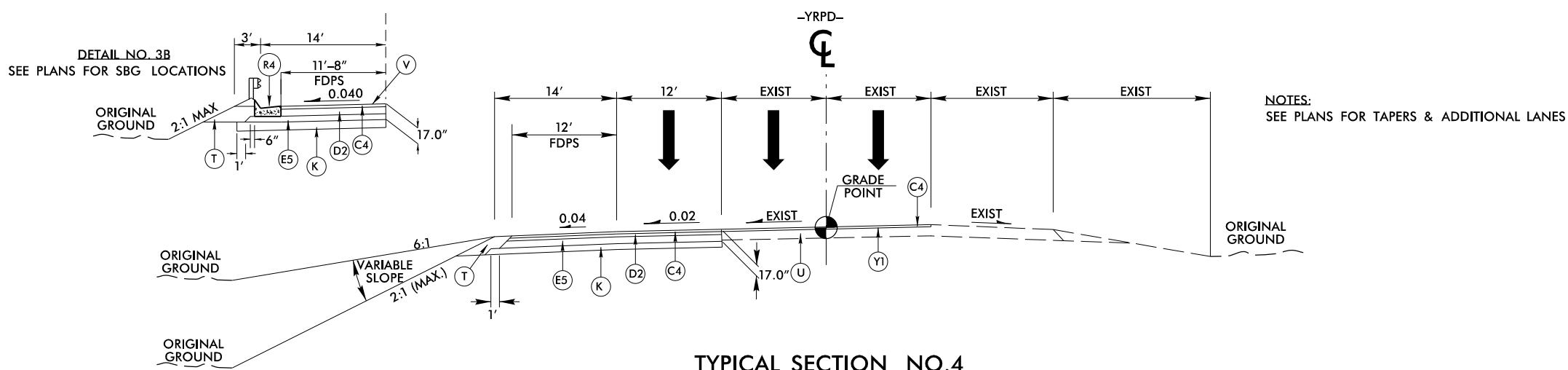
REVISIONS

PAVEMENT SCHEDULE	
A1	11" PCCP (W/ DOWEL)
A2	11" PCCP (W/O DOWEL)
A3	12.5" PCCP (W/ DOWEL)
A4	12.5" PCCP (W/O DOWEL)
A5	8.0" PCCP (W/O DOWEL)
C1	1.5" S9.5B
C2	1.5" S9.5C
C3	3.0" S9.5C
C4	3.0" S9.5D
C5	1.5" S9.5D
D1	2.5" I19.0C
D2	4.0" I19.0C
E1	3.0" B25.0C
E2	3.5" B25.0C
E3	4.0" B25.0C
E4	5.0" B25.0C
E5	10.0" B25.0C
K	SUBGRADE STABILIZATION
R1	2'-6" C & G
R2	MON. ISLAND
R3	TYPE 'T' BARRIER
R4	SHLD BERM GUTTER
R5	EXP. GUTTER
R6	SFC BARRIER
T	EARTH MATERIAL
U	EXIST. PAVEMENT
V	RUMBLE STRIPS
W	WEDGING
Y	1.5" MILLING
Y1	3.0" MILLING



PROJECT REFERENCE NO.	SHEET NO.
I-3306 / W-5707C	2A-2
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
lane	
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	

PAVEMENT SCHEDULE	
A1	11" PCCP (W/ DOWEL)
A2	11" PCCP (W/O DOWEL)
A3	12.5" PCCP (W/ DOWEL)
A4	12.5" PCCP (W/O DOWEL)
A5	8.0" PCCP (W/O DOWEL)
C1	1.5" S9.5B
C2	1.5" S9.5C
C3	3.0" S9.5C
C4	3.0" S9.5D
C5	1.5" S9.5D
D1	2.5" I19.0C
D2	4.0" I19.0C
E1	3.0" B25.0C
E2	3.5" B25.0C
E3	4.0" B25.0C
E4	5.0" B25.0C
E5	10.0" B25.0C
K	SUBGRADE STABILIZATION
R1	2'-6" C & G
R2	MON. ISLAND
R3	TYPE 'T' BARRIER
R4	SHLD BERM GUTTER
R5	EXP. GUTTER
R6	SFC BARRIER
T	EARTH MATERIAL
U	EXIST. PAVEMENT
V	RUMBLE STRIPS
w	WEDGING
Y	1.5" MILLING
Y1	3.0" MILLING

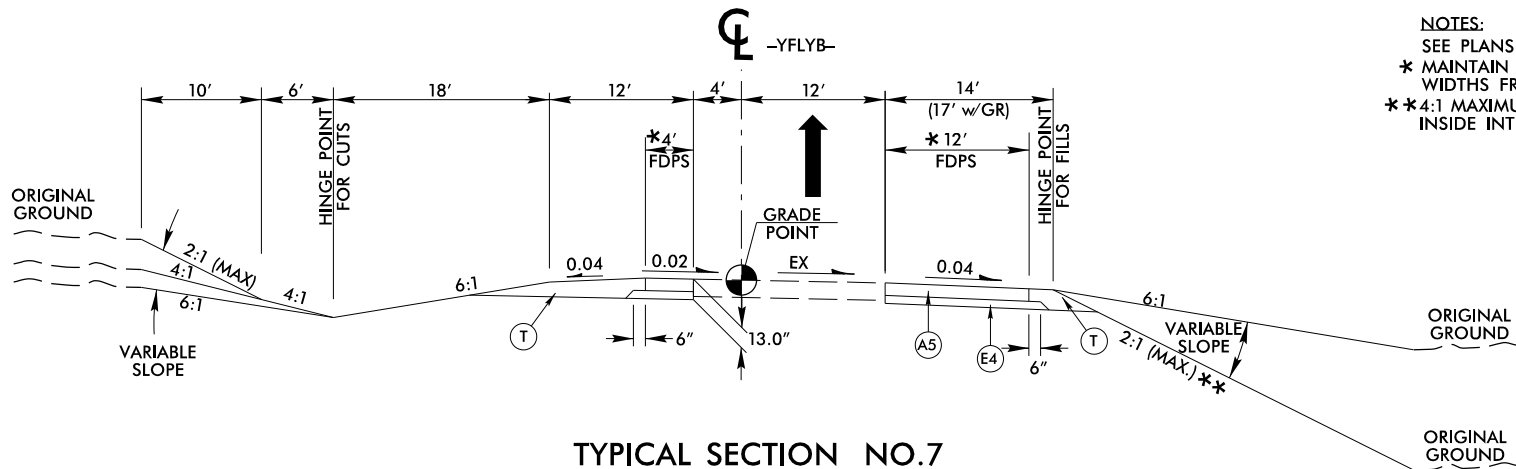


PROJECT REFERENCE NO.		SHEET NO.	
I-3306 / W-5707C		2A-3	
RW SHEET NO.			
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INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
 lane 			
		HDR Engineering, Inc. of the Carolinas 555 Fayetteville St, Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	

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REVISIONS

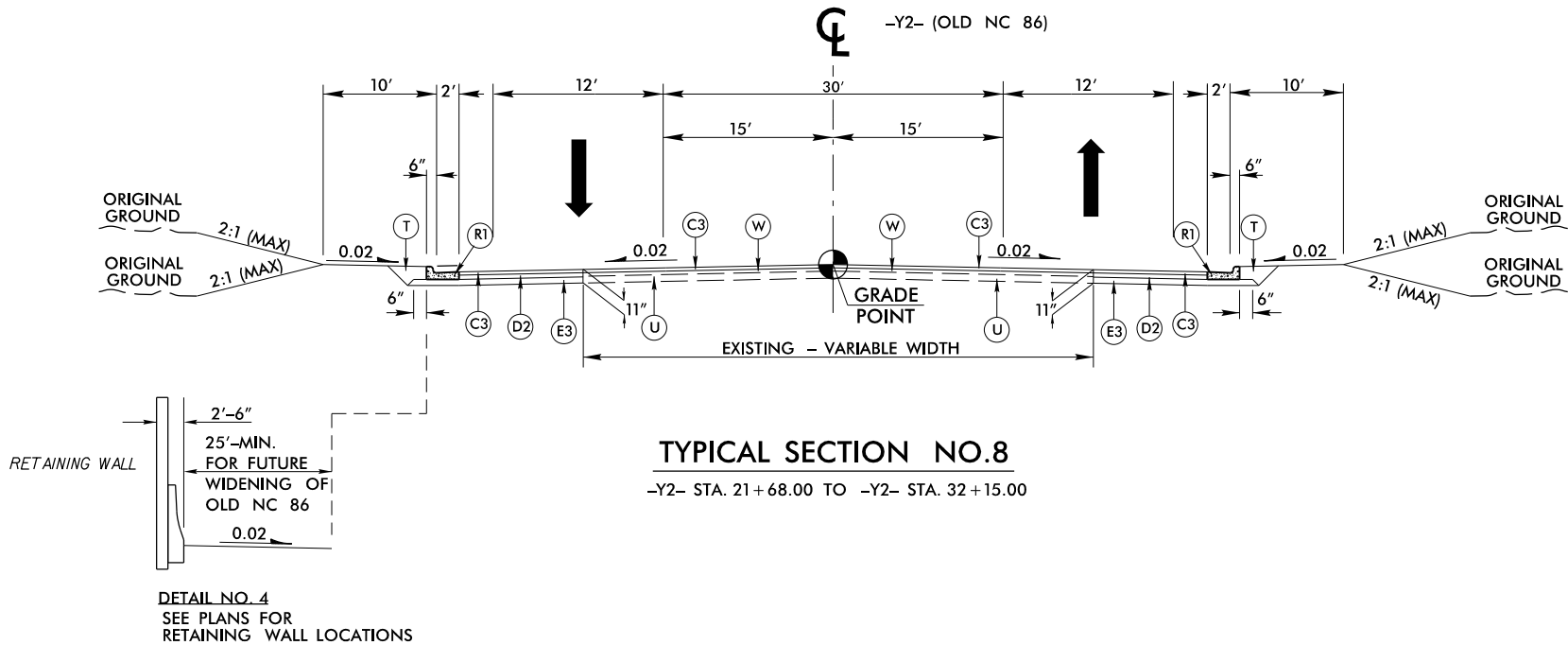
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A2	11" PCCP (W/O DOWEL)
A3	12.5" PCCP (W/ DOWEL)
A4	12.5" PCCP (W/O DOWEL)
A5	8.0" PCCP (W/O DOWEL)
C1	1.5" S9.5B
C2	1.5" S9.5C
C3	3.0" S9.5C
C4	3.0" S9.5D
C5	1.5" S9.5D
D1	2.5" I19.0C
D2	4.0" I19.0C
E1	3.0" B25.0C
E2	3.5" B25.0C
E3	4.0" B25.0C
E4	5.0" B25.0C
E5	10.0" B25.0C
K	SUBGRADE STABILIZATION
R1	2'-6" C & G
R2	MON. ISLAND
R3	TYPE 'T' BARRIER
R4	SHLD BERM GUTTER
R5	EXP. GUTTER
R6	SFC BARRIER
T	EARTH MATERIAL
U	EXIST. PAVEMENT
V	RUMBLE STRIPS
w	WEDGING
Y	1.5" MILLING
Y1	3.0" MILLING



TYPICAL SECTION NO.7

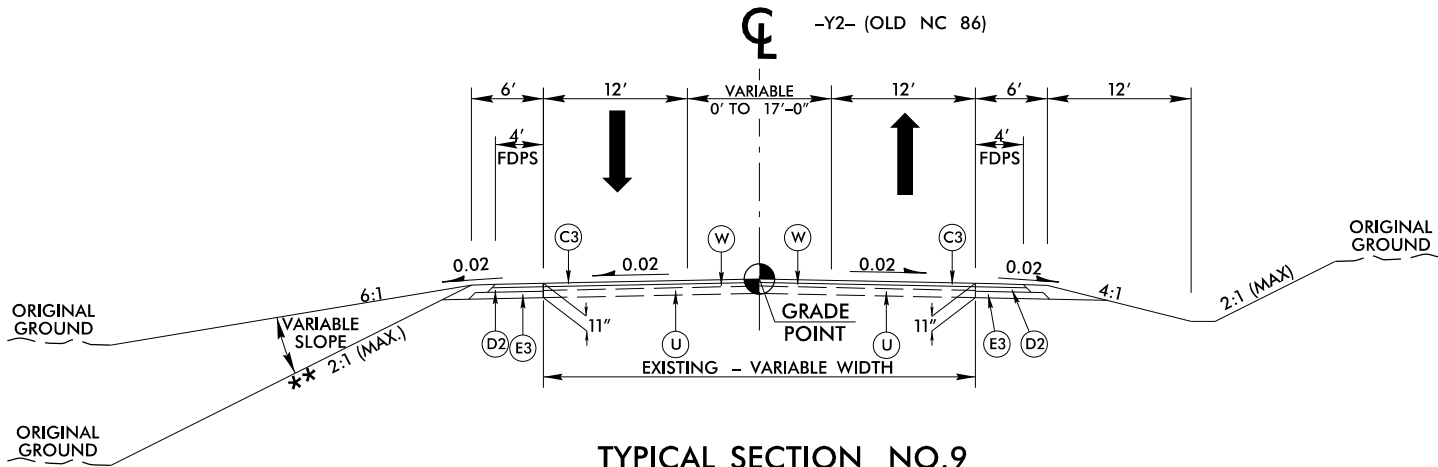
-YFLYB- STA. 19+50.00 TO -YFLYB- STA. 25+30.25 (BEGIN BRIDGE)
-YFLYB- STA. 28+58.20 (END BRIDGE) TO -YFLYB- STA. 46+07.15

NOTES:
SEE PLANS FOR TAPERS & ADDITIONAL LANES
* MAINTAIN EXISTING PAVED SHOULDER
WIDTHS FROM STA. 19+50 TO 40+55 RT.
** 4:1 MAXIMUM FILL SLOPES
INSIDE INTERCHANGE



TYPICAL SECTION NO.8

-Y2- STA. 21+68.00 TO -Y2- STA. 32+15.00



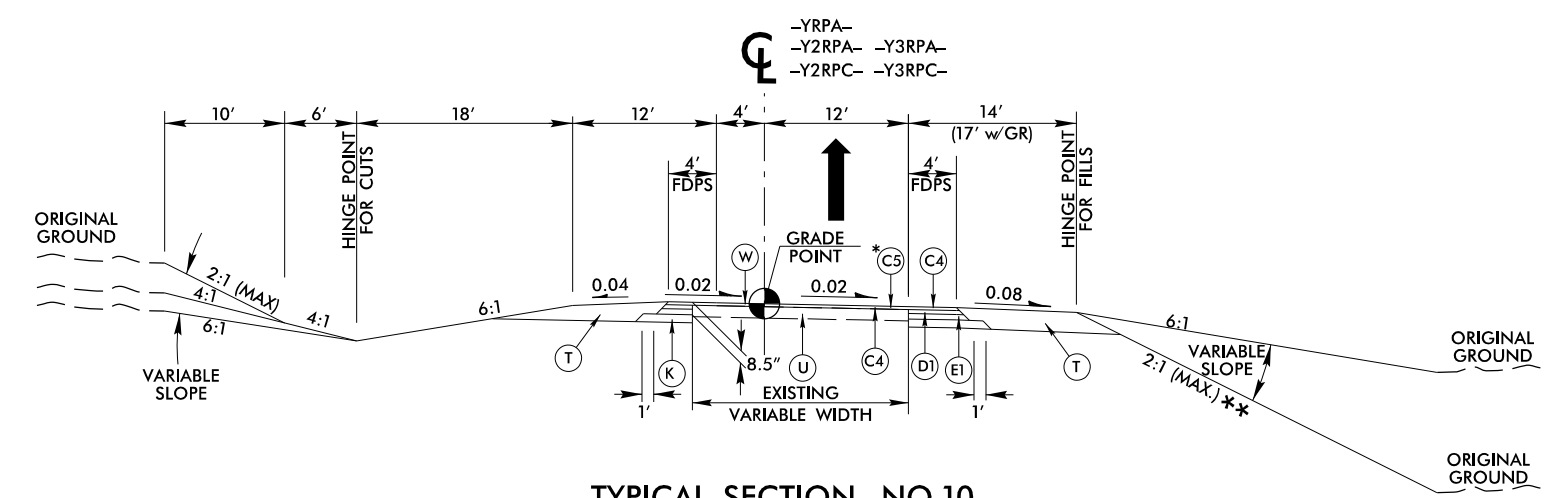
TYPICAL SECTION NO.9

-Y2- STA. 16+80.00 TO -Y2- STA. 21+68.00

PROJECT REFERENCE NO.	SHEET NO.
I-3306 / W-5707C	2A-4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
lane	
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	

PAVEMENT SCHEDULE	
A1	11" PCCP (W/ DOWEL)
A2	11" PCCP (W/O DOWEL)
A3	12.5" PCCP (W/ DOWEL)
A4	12.5" PCCP (W/O DOWEL)
A5	8.0" PCCP (W/O DOWEL)
C1	1.5" S9.5B
C2	1.5" S9.5C
C3	3.0" S9.5C
C4	3.0" S9.5D
C5	1.5" S9.5D
D1	2.5" I19.0C
D2	4.0" I19.0C
E1	3.0" B25.0C
E2	3.5" B25.0C
E3	4.0" B25.0C
E4	5.0" B25.0C
E5	10.0" B25.0C
K	SUBGRADE STABILIZATION
R1	2'-6" C & G
R2	MON. ISLAND
R3	TYPE 'T' BARRIER
R4	SHLD BERM GUTTER
R5	EXP. GUTTER
R6	SFC BARRIER
T	EARTH MATERIAL
U	EXIST. PAVEMENT
V	RUMBLE STRIPS
w	WEDGING
Y	1.5" MILLING
Y1	3.0" MILLING

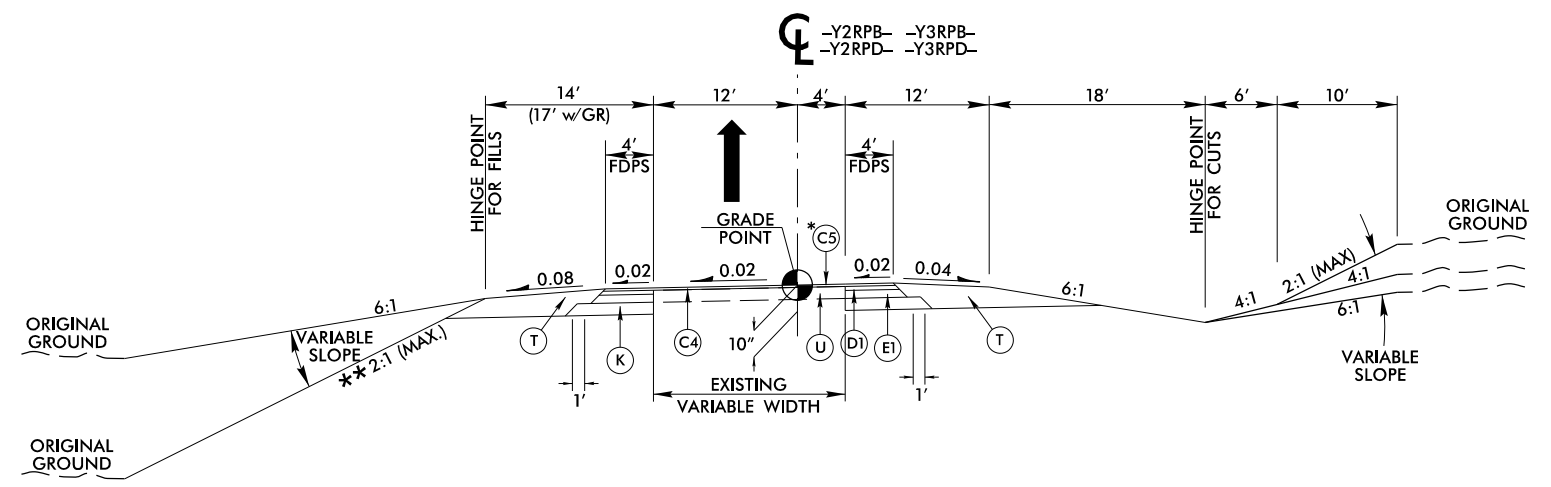
NOTES:
SEE PLANS FOR TAPERS & ADDITIONAL LANES
REMOVE EXISTING RAMP SHOULDER
PAVEMENT STRUCTURE FOR -Y3RPA- & -Y3RPC-
**4:1 MAXIMUM FILL SLOPES
INSIDE INTERCHANGE



TYPICAL SECTION NO.10

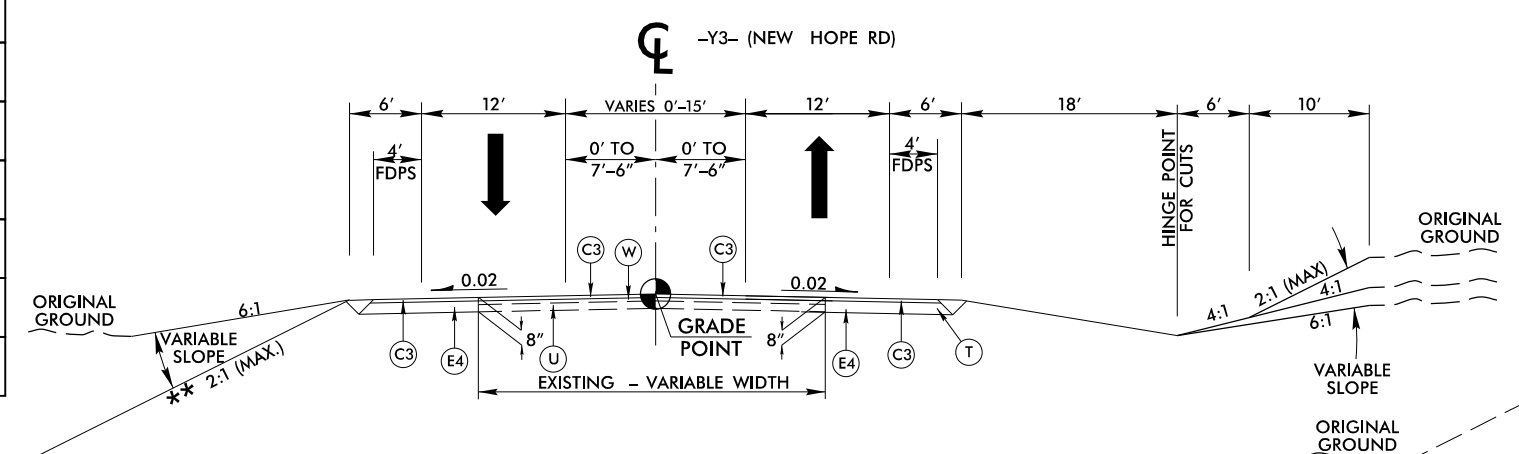
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 -Y2RPA- STA. 16 + 29.79 TO -Y2RPA- STA. 29 + 07.14
 -Y2PRC- STA. 13 + 79.59 TO -Y2RPC- STA. 25 + 15.11
 *Y3RPA- STA. 13 + 35.80 TO -Y3RPA- STA. 23 + 37.93
 *Y3PRC- STA. 13 + 71.31 TO -Y3RPC- STA. 23 + 92.93

NOTES:
SEE PLANS FOR TAPERS & ADDITIONAL LANES
REMOVE EXISTING RAMP SHOULDER
PAVEMENT STRUCTURE FOR -Y2RPD-
4:1 MAXIMUM FILL SLOPES
INSIDE INTERCHANGE



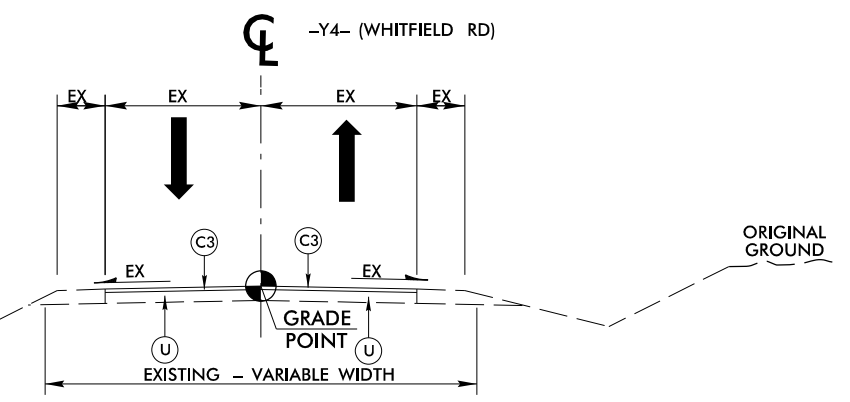
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-Y2RPB- STA. 15 + 07.89 TO -Y2RPB- STA. 22 + 18.70
 *-Y2RPD- STA. 15 + 94.06 TO -Y2RPD- STA. 24 + 07.23
 -Y3RPB- STA. 15 + 80.71 TO -Y3RPB- STA. 24 + 95.82
 -Y3RPD- STA. 14 + 62.33 TO -Y3RPD- STA. 23 + 27.89



TYPICAL SECTION NO.12

-Y3- STA. 10+25.00 TO -Y3- STA. 16+18.16
-Y3- STA. 18+76.03 TO -Y3- STA. 22+10.00



TYPICAL SECTION NO.13

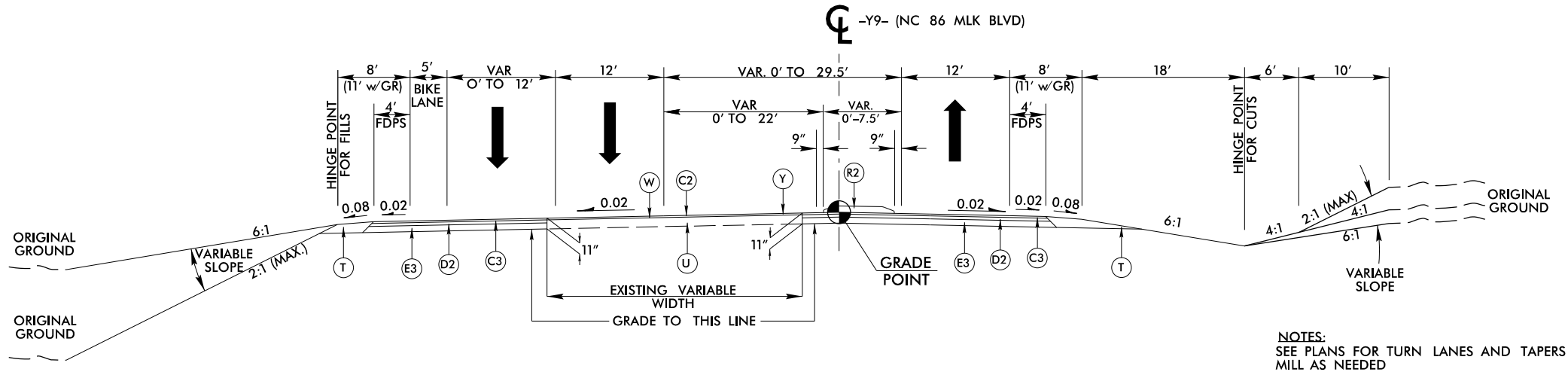
-Y4- STA. 14+75.00 TO -Y2- STA. 20+15.00

PROJECT REFERENCE NO.		SHEET NO.	
I-3306 / W-5707C		2A-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			
 lane 			
		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	

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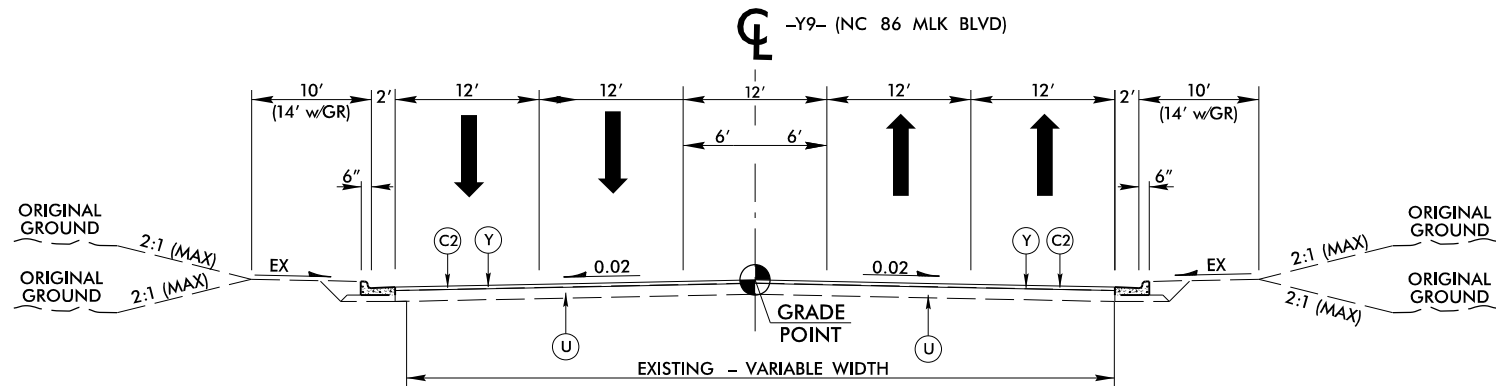
REVISIONS

PAVEMENT SCHEDULE	
A1	11" PCCP (W/ DOWEL)
A2	11" PCCP (W/O DOWEL)
A3	12.5" PCCP (W/ DOWEL)
A4	12.5" PCCP (W/O DOWEL)
A5	8.0" PCCP (W/O DOWEL)
C1	1.5" S9.5B
C2	1.5" S9.5C
C3	3.0" S9.5C
C4	3.0" S9.5D
C5	1.5" S9.5D
D1	2.5" I19.0C
D2	4.0" I19.0C
E1	3.0" B25.0C
E2	3.5" B25.0C
E3	4.0" B25.0C
E4	5.0" B25.0C
E5	10.0" B25.0C
K	SUBGRADE STABILIZATION
R1	2'-6" C & G
R2	MON. ISLAND
R3	TYPE 'T' BARRIER
R4	SHLD BERM GUTTER
R5	EXP. GUTTER
R6	SFC BARRIER
T	EARTH MATERIAL
U	EXIST. PAVEMENT
V	RUMBLE STRIPS
W	WEDGING
Y	1.5" MILLING
Y1	3.0" MILLING



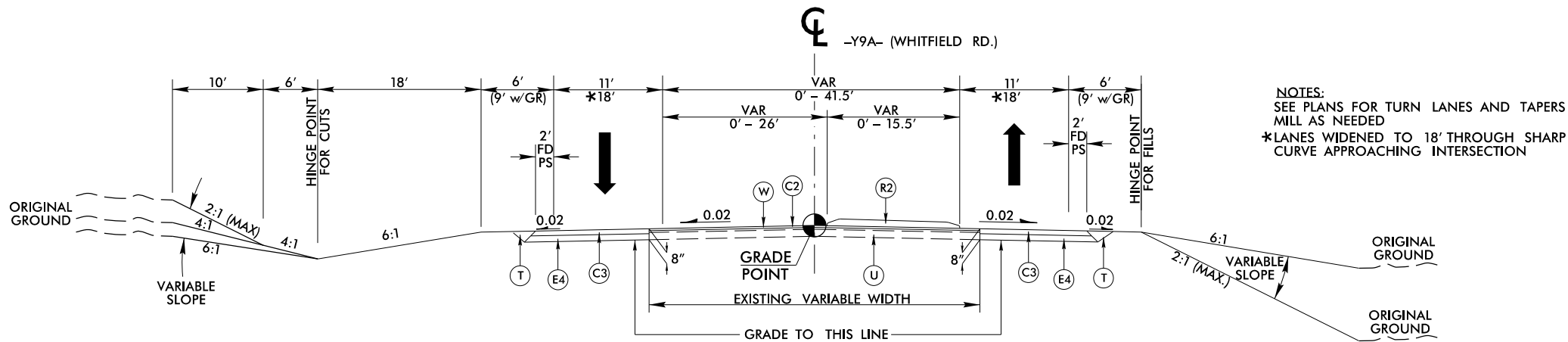
TYPICAL SECTION NO.14
-Y9- STA. 42+00.00 TO -Y9- STA. 51+50.00

NOTES:
SEE PLANS FOR TURN LANES AND TAPERS
MILL AS NEEDED



TYPICAL SECTION NO.15
-Y9- STA. 20+40.00 TO -Y9- STA. 26+92.62
-Y9- STA. 30+01.30 TO -Y9- STA. 42+00.00

NOTES:
SEE PLANS FOR TURN LANES AND TAPERS
MILL AS NEEDED



TYPICAL SECTION NO.16
-Y9A- STA. 10+26.94 TO -Y9- STA. 24+25.00

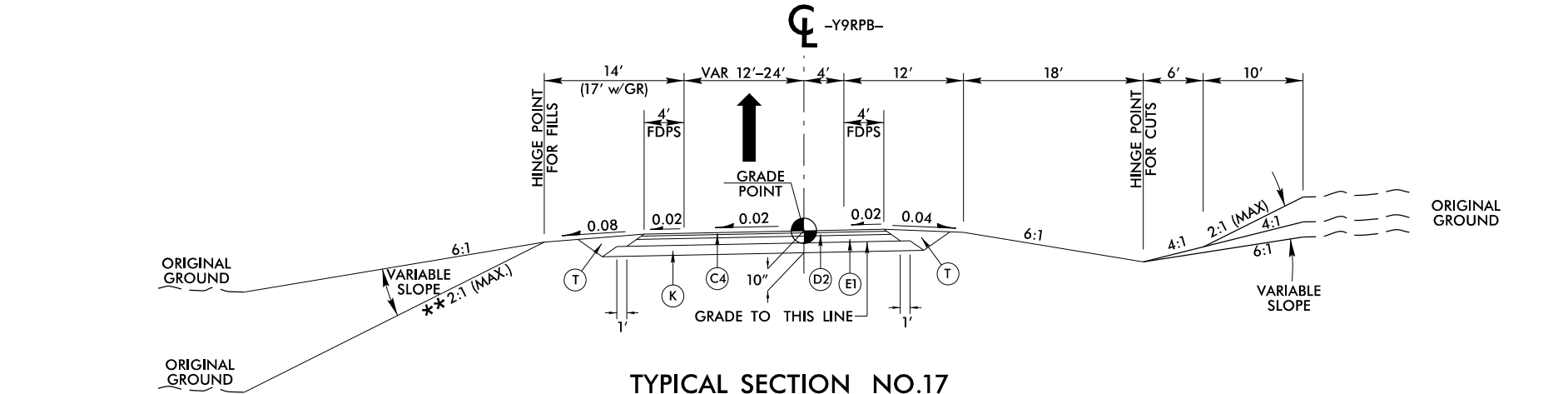
NOTES:
SEE PLANS FOR TURN LANES AND TAPERS
MILL AS NEEDED
*LANES WIDENED TO 18' THROUGH SHARP
CURVE APPROACHING INTERSECTION

PROJECT REFERENCE NO.	SHEET NO.
I-3306 / W-5707C	2A-6
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
lane	
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	

REVISIONS

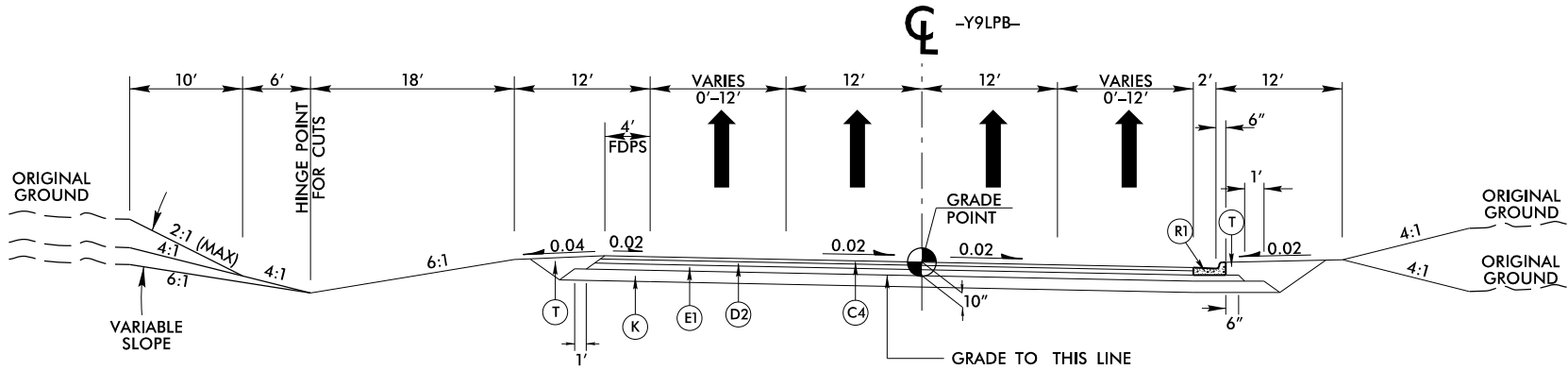
PAVEMENT SCHEDULE	
A1	11" PCCP (W/ DOWEL)
A2	11" PCCP (W/O DOWEL)
A3	12.5" PCCP (W/ DOWEL)
A4	12.5" PCCP (W/O DOWEL)
A5	8.0" PCCP (W/O DOWEL)
C1	1.5" S9.5B
C2	1.5" S9.5C
C3	3.0" S9.5C
C4	3.0" S9.5D
C5	1.5" S9.5D
D1	2.5" I19.0C
D2	4.0" I19.0C
E1	3.0" B25.0C
E2	3.5" B25.0C
E3	4.0" B25.0C
E4	5.0" B25.0C
E5	10.0" B25.0C
K	SUBGRADE STABILIZATION
R1	2'-6" C & G
R2	MON. ISLAND
R3	TYPE 'T' BARRIER
R4	SHLD BERM GUTTER
R5	EXP. GUTTER
R6	SFC BARRIER
T	EARTH MATERIAL
U	EXIST. PAVEMENT
V	RUMBLE STRIPS
W	WEDGING
Y	1.5" MILLING
Y1	3.0" MILLING

NOTES:
SEE PLANS FOR TAPERS & ADDITIONAL LANES
REMOVE EXISTING RAMP SHOULDER
PAVEMENT STRUCTURE FOR -Y9RPC-
**4:1 MAXIMUM FILL SLOPES
INSIDE INTERCHANGE



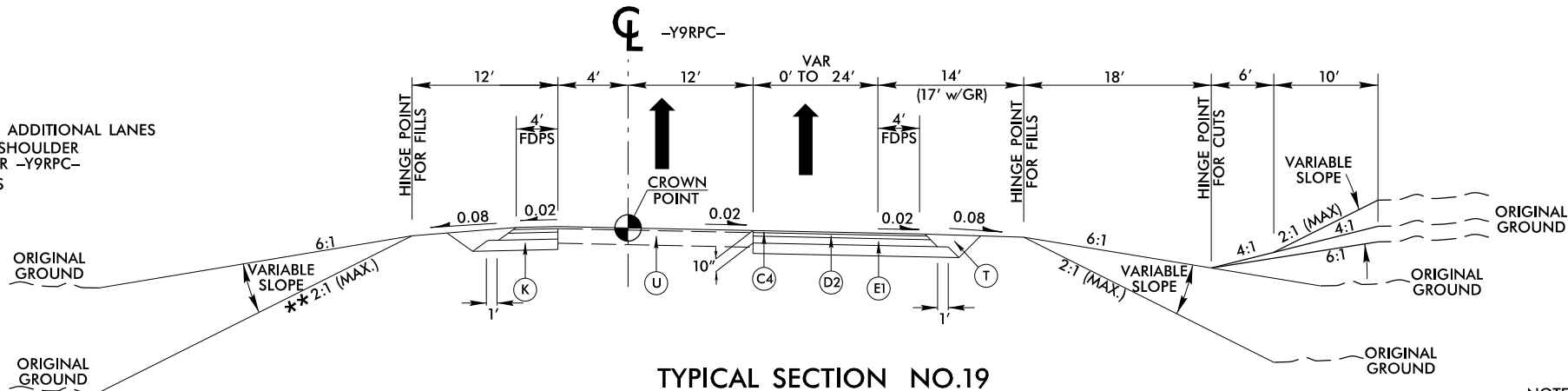
TYPICAL SECTION NO.17
-Y9PRB- STA. 15+01.43 TO -Y9RPB- STA. 29+20.49

NOTES:
SEE PLANS FOR TAPERS
**4:1 MAXIMUM FILL SLOPES
INSIDE INTERCHANGE



TYPICAL SECTION NO.18
-Y9LPB- STA. 12+60.29 TO -Y9LPB- STA. 21+54.33

NOTES:
SEE PLANS FOR TAPERS



TYPICAL SECTION NO.19
-Y9RPC- STA. 13+94.68 TO -Y9RPC- STA. 25+15.28

NOTES:
SEE PLANS FOR TAPERS

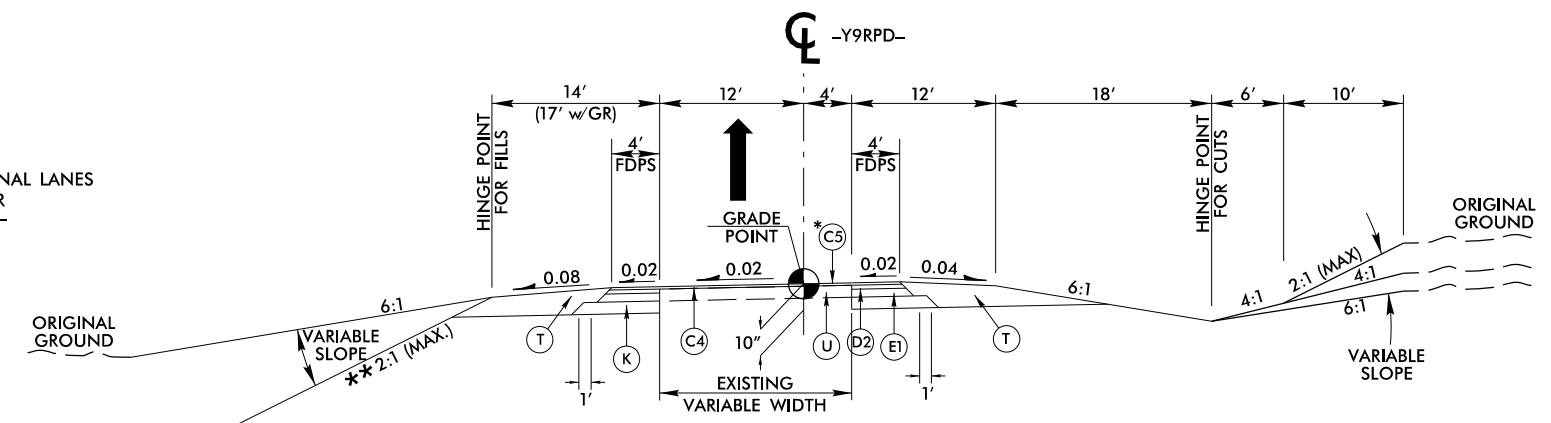
PROJECT REFERENCE NO.	SHEET NO.
I-3306 / W-5707C	2A-7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
lane	
HDR Engineering, Inc. of the Carolinas 555 Fayetteville St, Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	

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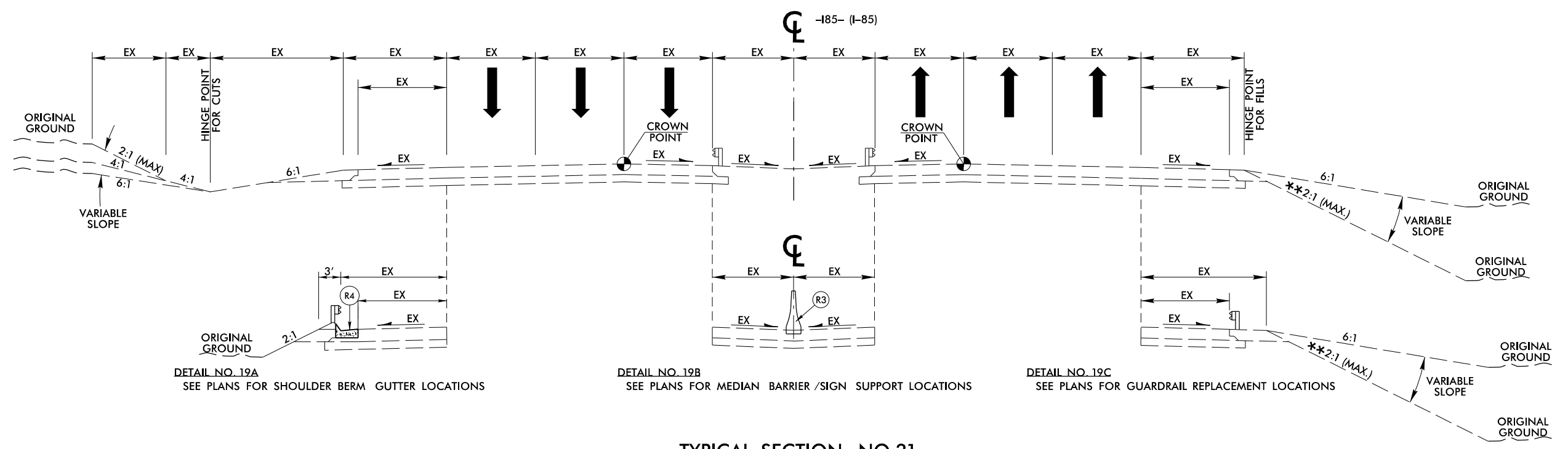
REVISIONS

PAVEMENT SCHEDULE	
A1	11" PCCP (W/ DOWEL)
A2	11" PCCP (W/O DOWEL)
A3	12.5" PCCP (W/ DOWEL)
A4	12.5" PCCP (W/O DOWEL)
A5	8.0" PCCP (W/O DOWEL)
C1	1.5" S9.5B
C2	1.5" S9.5C
C3	3.0" S9.5C
C4	3.0" S9.5D
C5	1.5" S9.5D
D1	2.5" I19.0C
D2	4.0" I19.0C
E1	3.0" B25.0C
E2	3.5" B25.0C
E3	4.0" B25.0C
E4	5.0" B25.0C
E5	10.0" B25.0C
K	SUBGRADE STABILIZATION
R1	2'-6" C & G
R2	MON. ISLAND
R3	TYPE 'T' BARRIER
R4	SHLD BERM GUTTER
R5	EXP. GUTTER
R6	SFC BARRIER
T	EARTH MATERIAL
U	EXIST. PAVEMENT
V	RUMBLE STRIPS
W	WEDGING
Y	1.5" MILLING
Y1	3.0" MILLING

NOTES:
SEE PLANS FOR TAPERS & ADDITIONAL LANES
REMOVE EXISTING RAMP SHOULDER
PAVEMENT STRUCTURE FOR -Y9RPD-
*4:1 MAXIMUM FILL SLOPES
INSIDE INTERCHANGE



TYPICAL SECTION NO.20
-Y9RPD- STA. 14+04.80 TO -Y9RPD- STA. 23+83.78



DETAIL NO. 19A
SEE PLANS FOR SHOULDER BERM GUTTER LOCATIONS

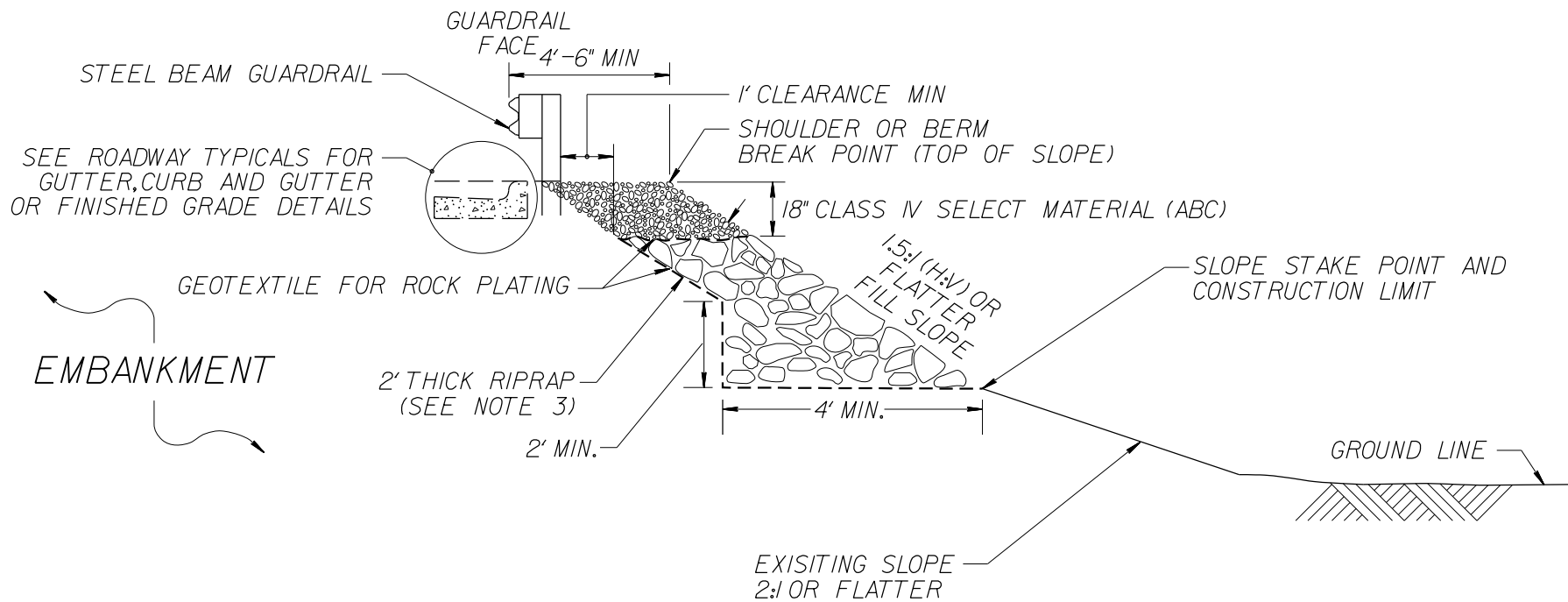
DETAIL NO. 19B
SEE PLANS FOR MEDIAN BARRIER /SIGN SUPPORT LOCATIONS

DETAIL NO. 19C
SEE PLANS FOR GUARDRAIL REPLACEMENT LOCATIONS

TYPICAL SECTION NO.21
-I85- STA. 41+88.95 TO -I85- STA. 110+10.26

PROJECT REFERENCE NO.	SHEET NO.
I-3306 / W-5707C	2A-8
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	
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REVISIONS



ROCK PLATING DETAIL

NOTES:

1. SEE ROADWAY PLANS AND SUMMARY SHEETS FOR ROCK PLATING LOCATIONS.
2. FOR STANDARD ROCK PLATING,SEE SECTION 275 OF THE STANDARD SPECIFICATIONS.
3. USE CLASS I,2 OR B RIPRAP UNLESS REQUIRED OTHERWISE IN THE ROADWAY SUMMARY SHEETS.

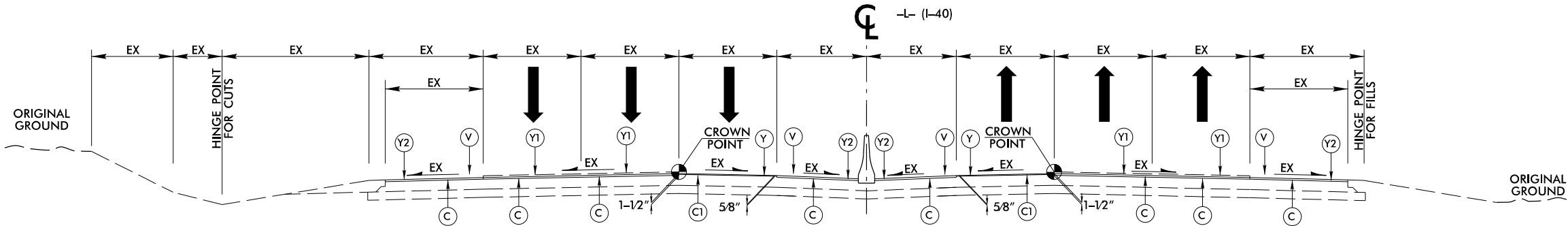
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I-3306 / W-5707C	2A-9
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
lane	
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DATE: 12/21/2021

REVISIONS

W-5707C P A V E M E N T S C H E D U L E			
C	PROP. APPROX. 1-1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YARD.	Y1	2-1/8" MILLING: REMOVE ULTRA-THIN AND TOP SURFACE COURSE.
C1	PROP. APPROX. 5/8" ULTRA THIN BONDED WEARING COURSE	Y2	1-1/2" MILLING: REMOVE TOP SURFACE COURSE
Y	5/8" MILLING: REMOVE ULTRA-THIN TO THE TOP OF PCCP	V	RUMBLE STRIPS



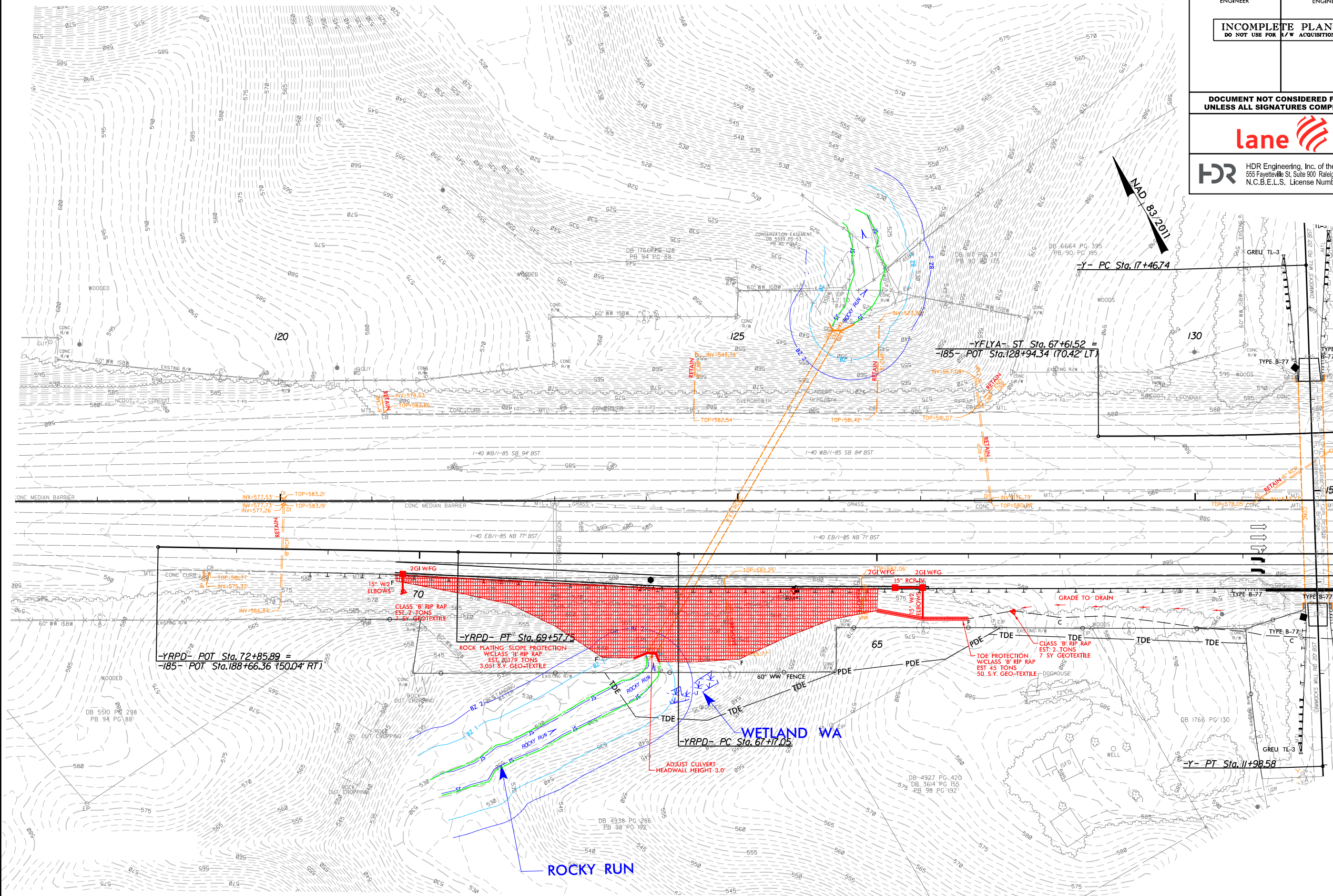
TYPICAL SECTION NO.1
BEGIN -L- STA. 550+00 THROUGH
LIMITS OF W-5707C

NOTES:
MAINTAIN EXISTING LANE AND PAVED SHOULDER WIDTHS
PAVE TO BACK OF EXISTING GORES WITHIN LIMITS OF W-5707C

PROJECT REFERENCE NO. I-3306 / W-5707C		SHEET NO. 2A-10	
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			
lane			
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			

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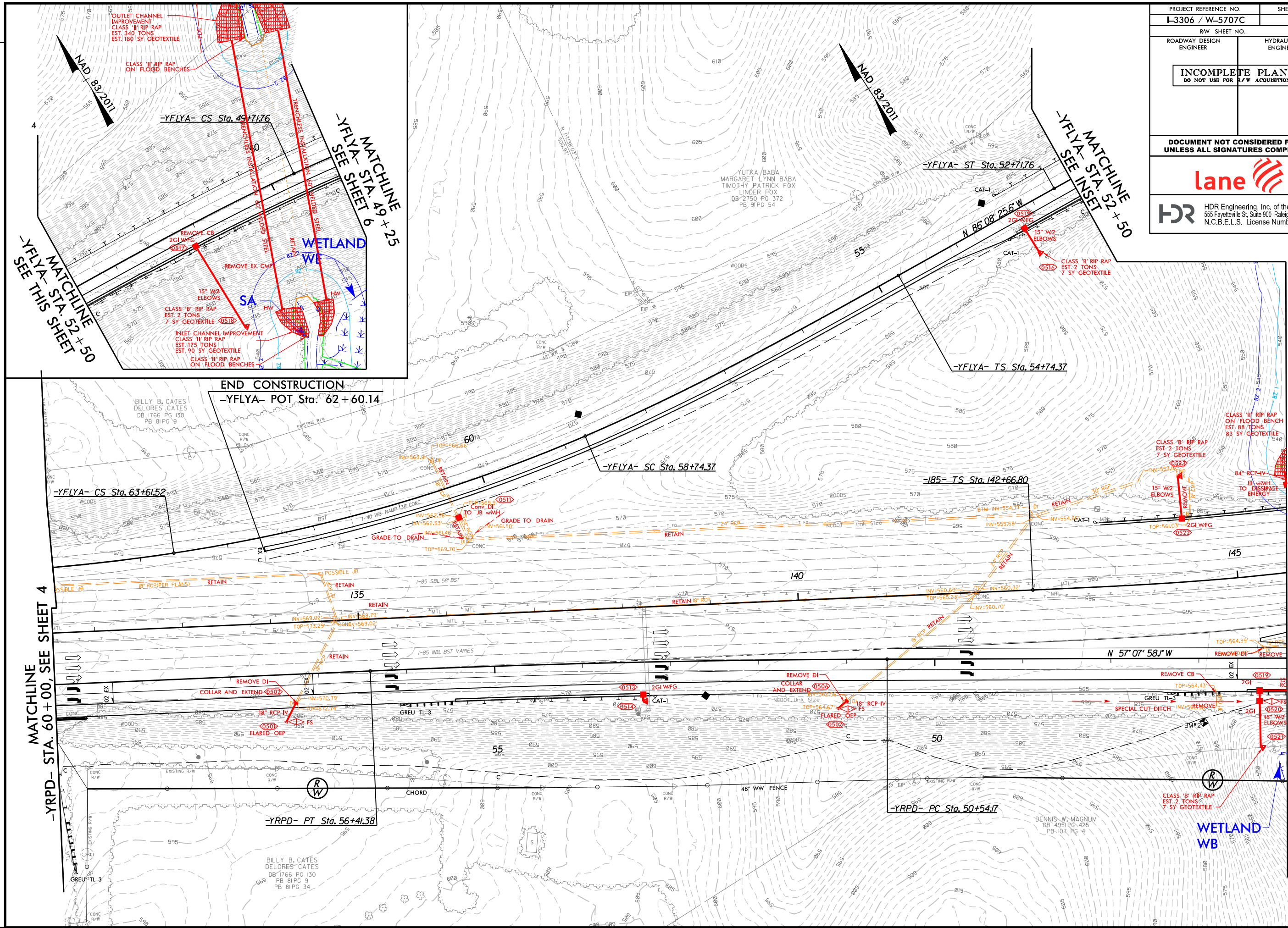
REVISIONS



PROJECT REFERENCE NO. I-3306 / W-5707C		SHEET NO. 4	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
lane			
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			

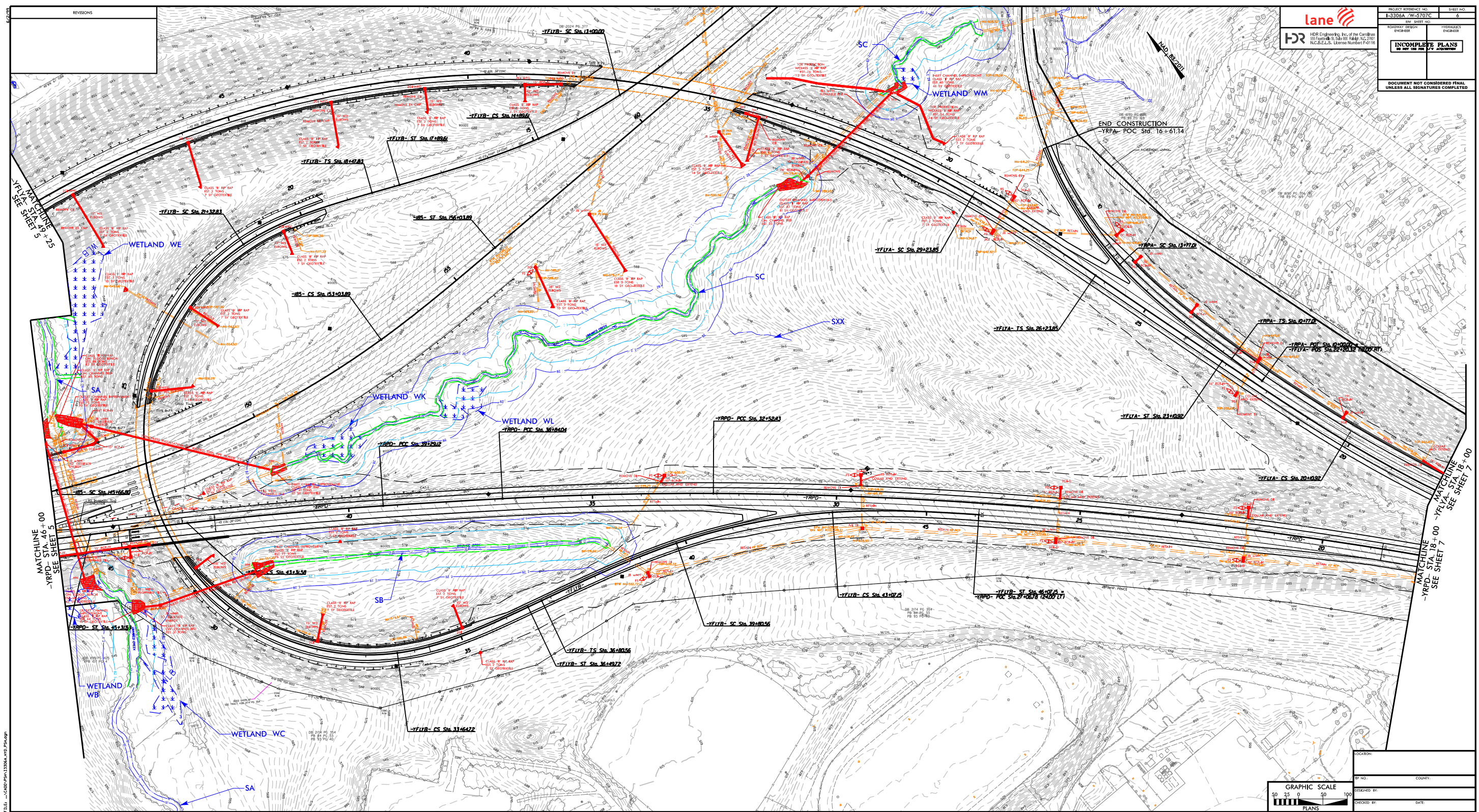
MATCHLINE
-YRPD- STA. 60+00, SEE SHEET 5

REVISIONS



PROJECT REFERENCE NO. I-3306 / W-5707C		SHEET NO. 5	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
			
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MATCHLINE
-YRPD- STA. 46 + 00, SEE SHEET 6



REVISIONS

H&R
H&R Engineering, Inc. of the Carolinas
255 Farris Rd., Suite 600 Raleigh, NC 27601
N.C. & C.E.L.S. License Number F-4119

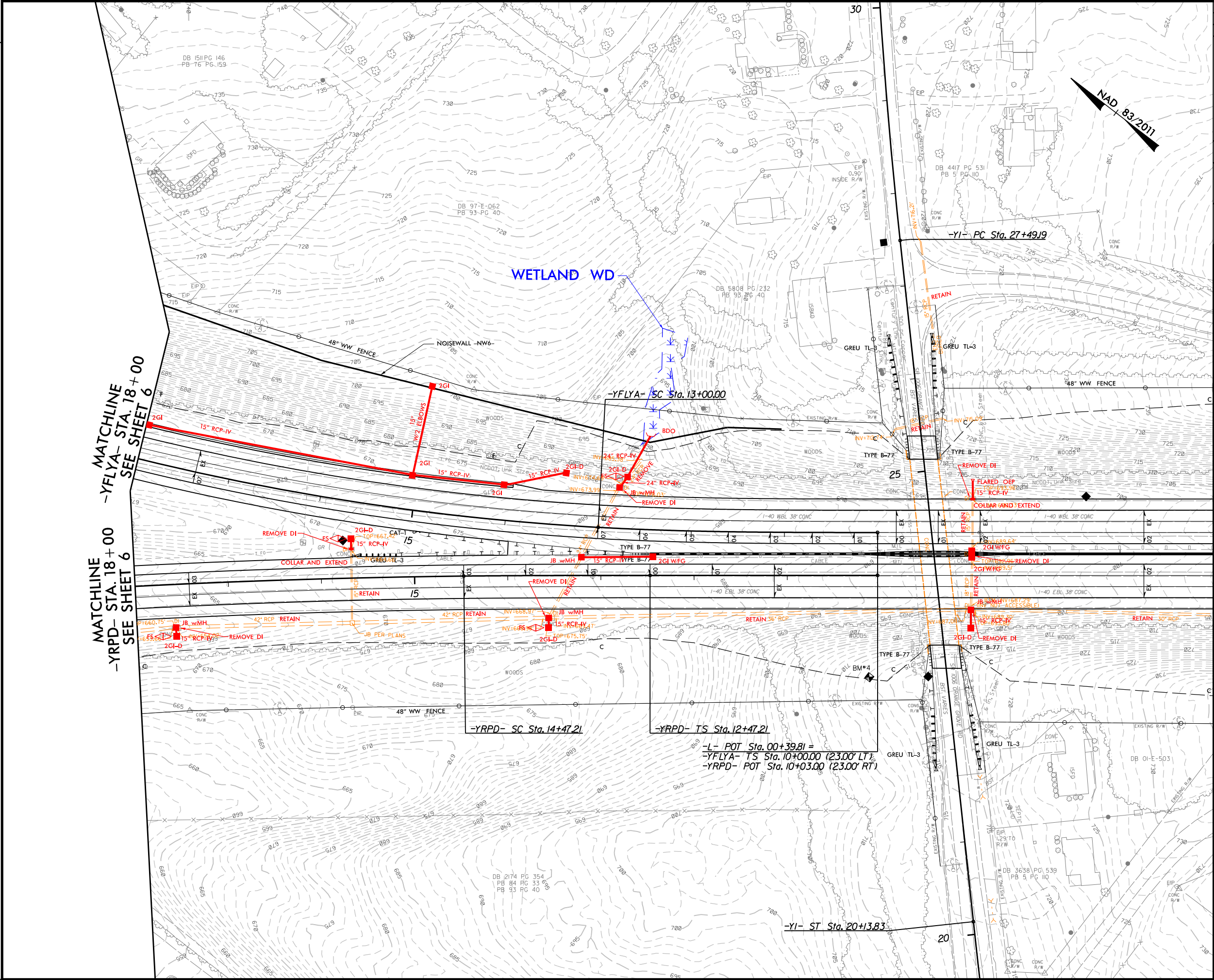
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I-3306A-W-5707C	6
REV. SHEET NO.	PROJ. SHEET NO.
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PLANS

LOCATION:	
TP NO.:	COUNTY:
DESIGNED BY:	
CHECKED BY:	DATE:

REVISIONS



MATCHLINE -YFLYA- STA. 18+00
SEE SHEET 6

MATCHLINE -YRPD- STA. 18+00
SEE SHEET 6

-YRPD- SC Sta. 14+47.21

-YRPD- TS Sta. 12+47.21

-L- POT Sta. 00+39.81 =
-YFLYA- TS Sta. 10+00.00 (23.00' LT)
-YRPD- POT Sta. 10+03.00 (23.00' RT)

-YI- ST Sta. 20+13.83

20

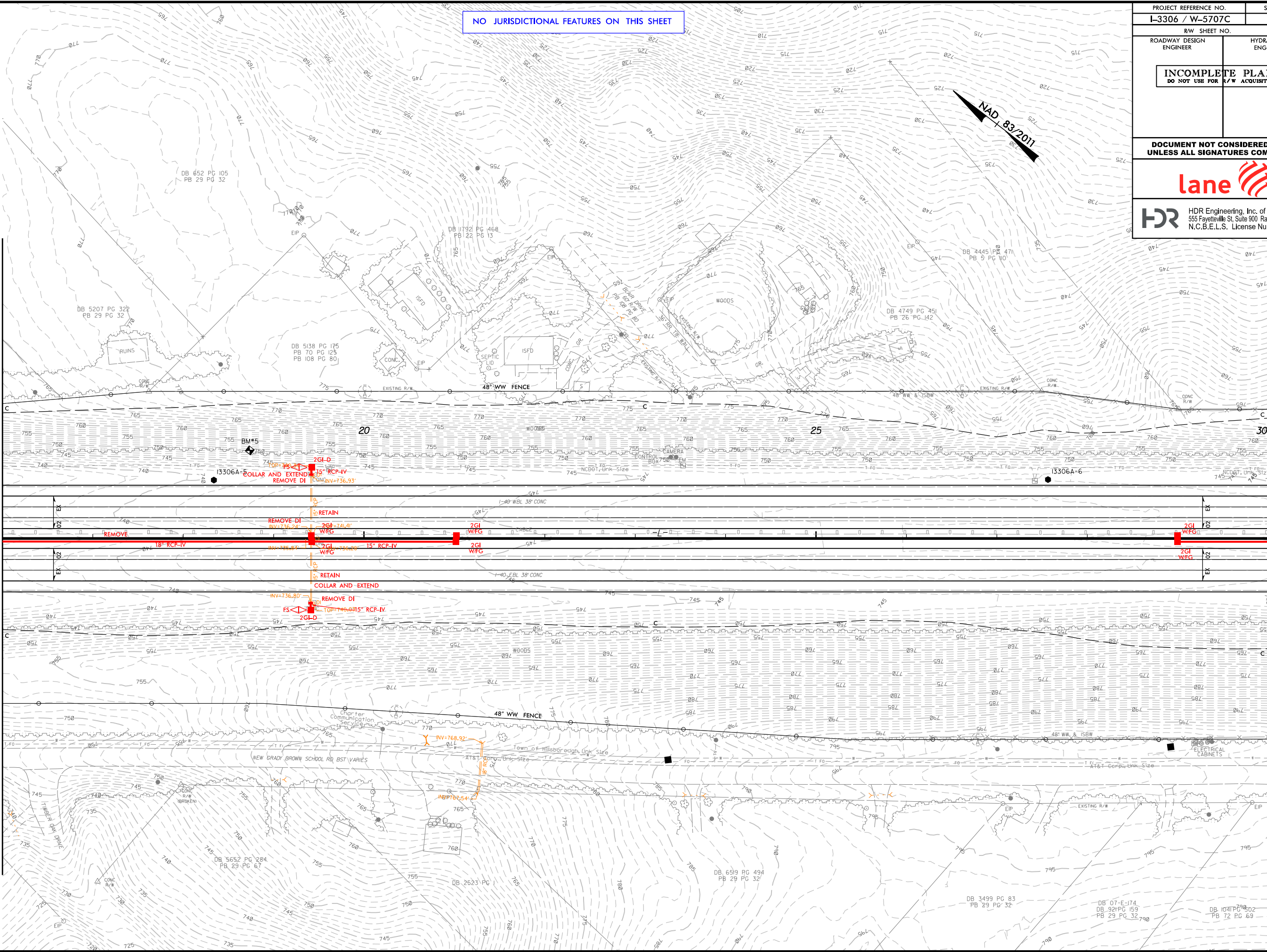
NAD 83/2011

MATCHLINE -L- STA. 4+00, SEE SHEET 8

PROJECT REFERENCE NO. I-3306 / W-5707C		SHEET NO. 7	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
lane			
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			

REVISIONS

MATCHLINE -L- STA. 16 + 00, SEE SHEET 8

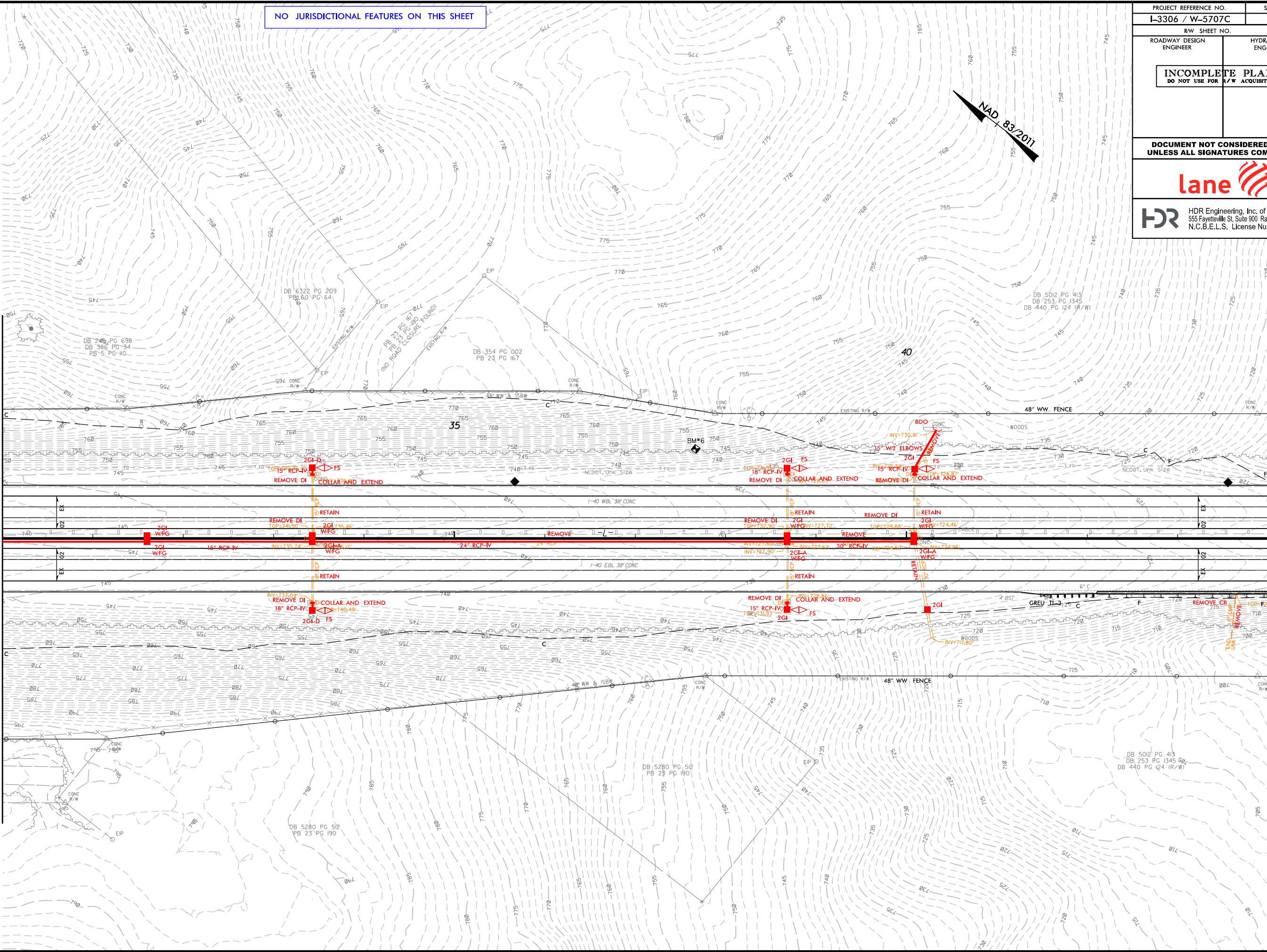


MATCHLINE -L- STA. 30 + 00, SEE SHEET 10

PROJECT REFERENCE NO. I-3306 / W-5707C		SHEET NO. 9	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
lane			
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			

REVISIONS

MATCHLINE -L- STA. 30 + 00, SEE SHEET 9



MATCHLINE -L- STA. 44 + 00, SEE SHEET 11

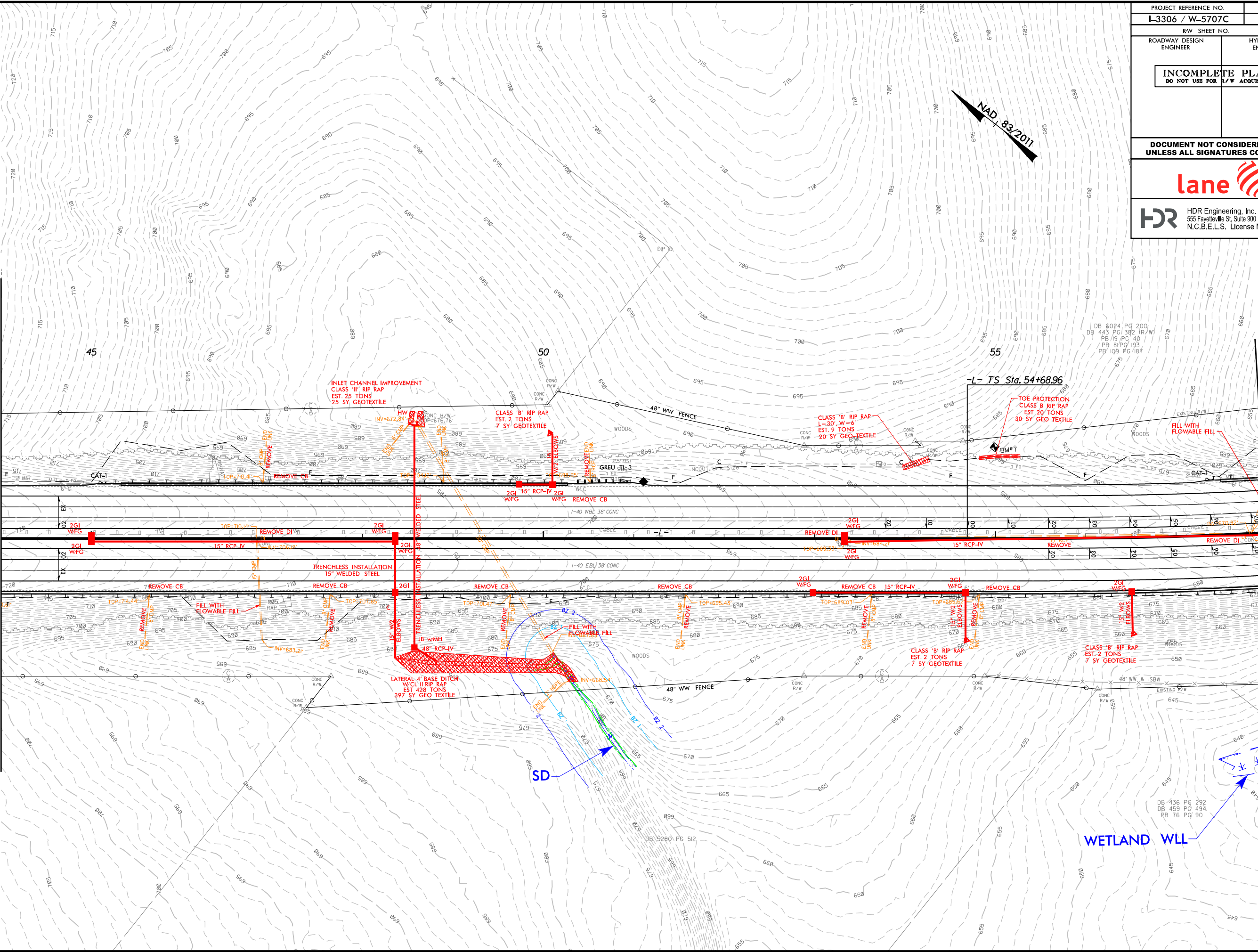
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RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
lane			
HDR HDR Engineering, Inc. of the Carolinas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

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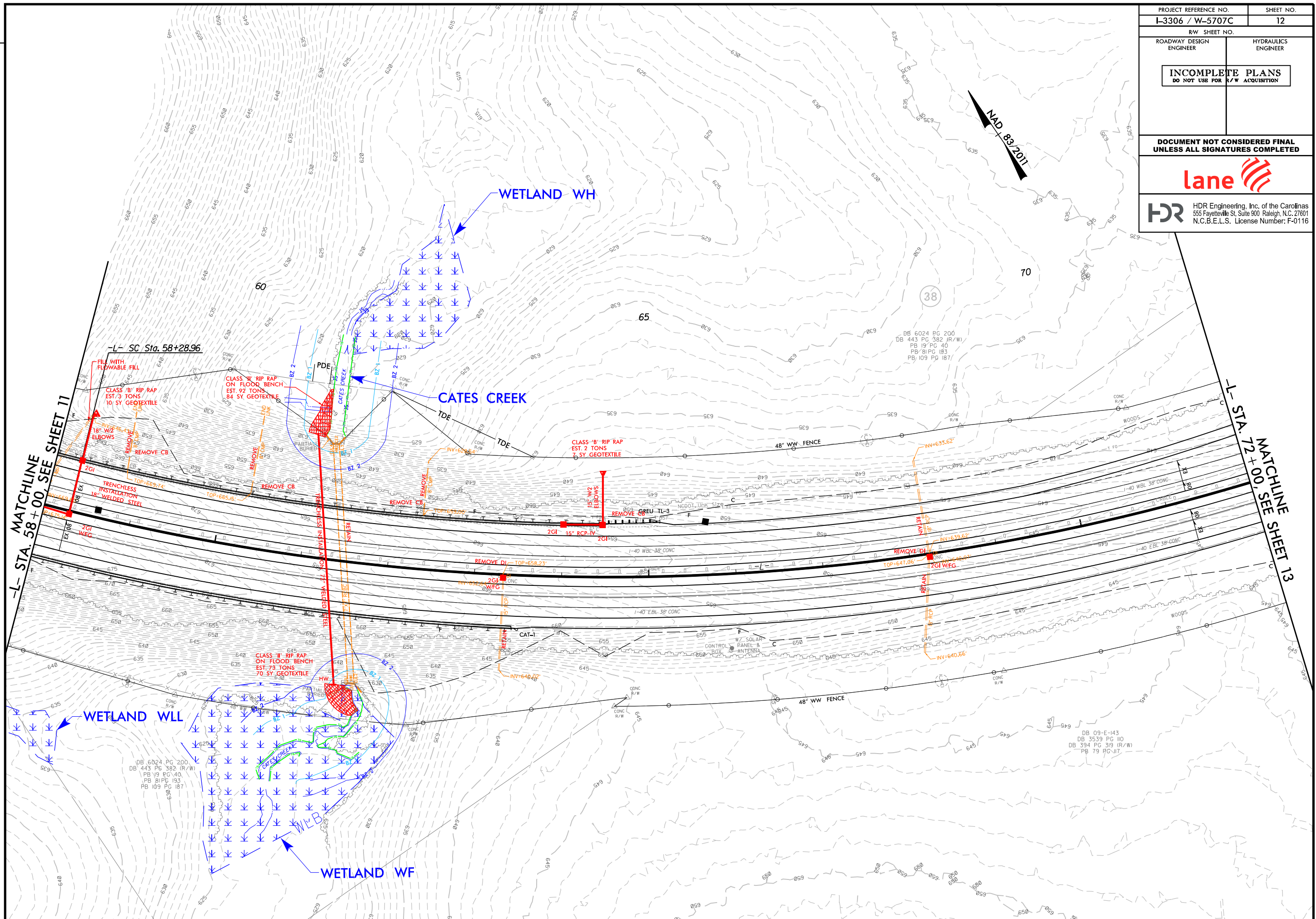
REVISIONS

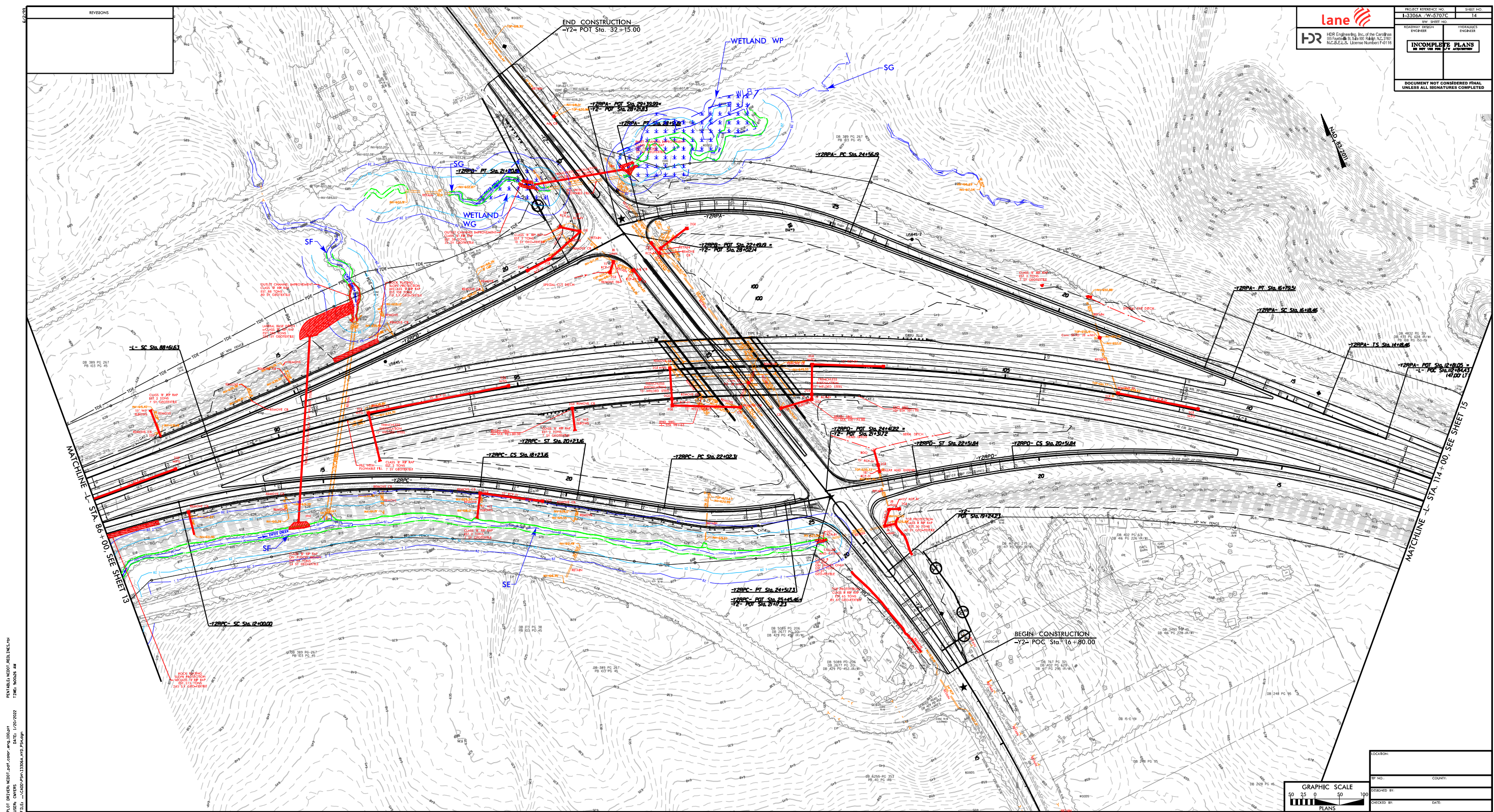
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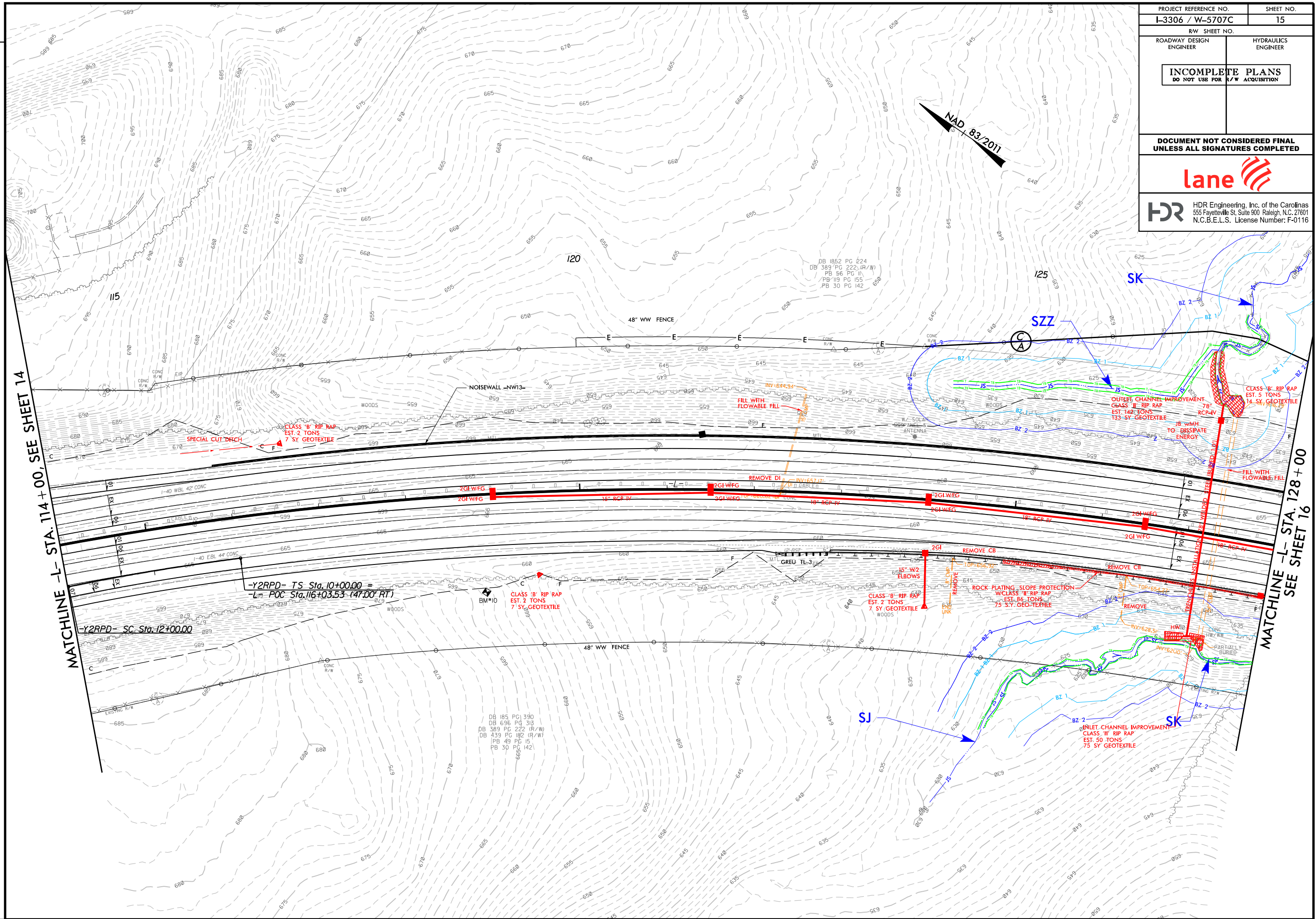


MATCHLINE -L- STA. 58 + 00, SEE SHEET 12

PROJECT REFERENCE NO. I-3306 / W-5707C		SHEET NO. 11	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
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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			





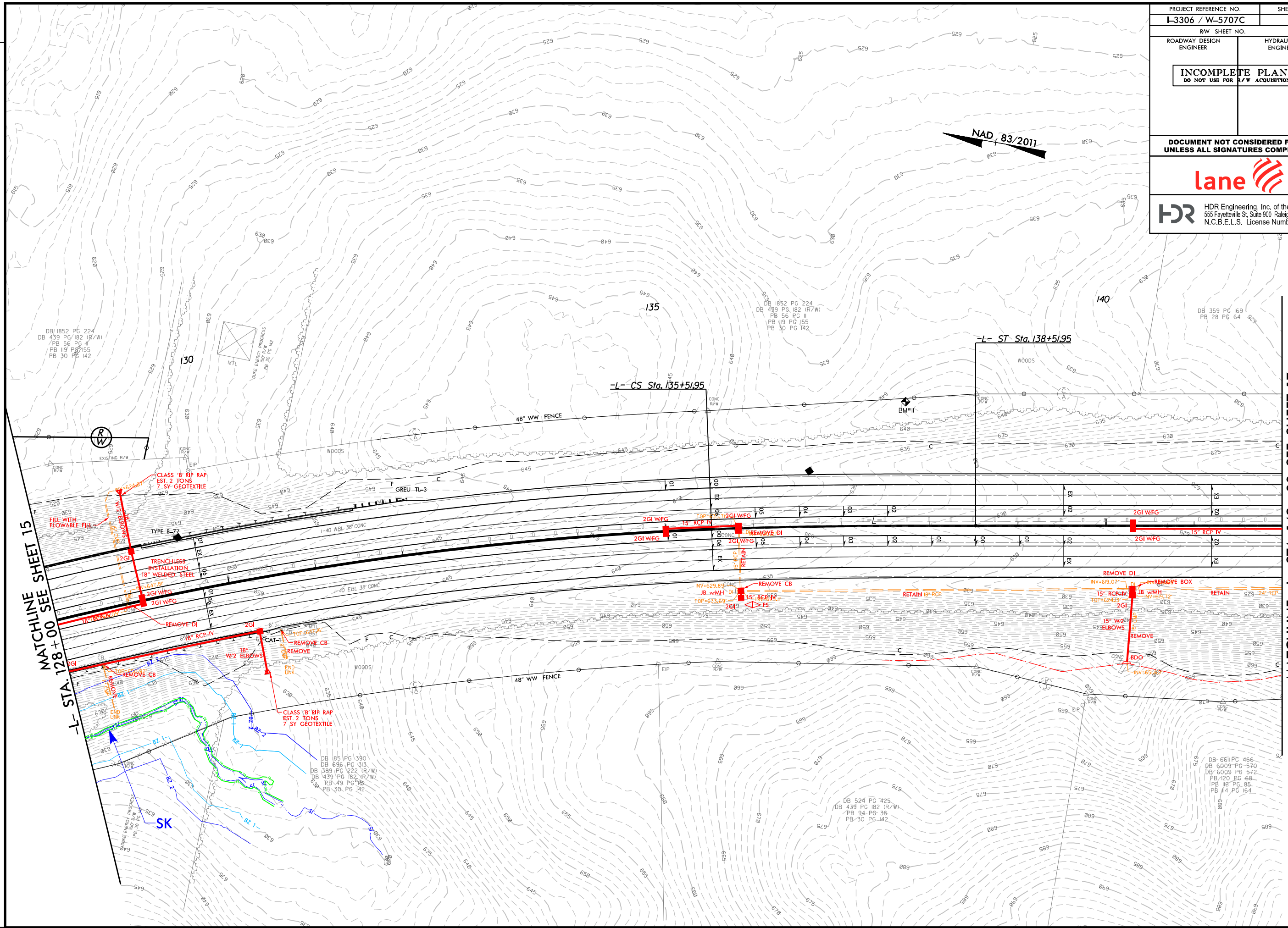


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REVISIONS

WATCHLINE -L- STA. 114+00, SEE SHEET 14

**MATCHLINE -L- STA. 128 + 00
SEE SHEET 16**

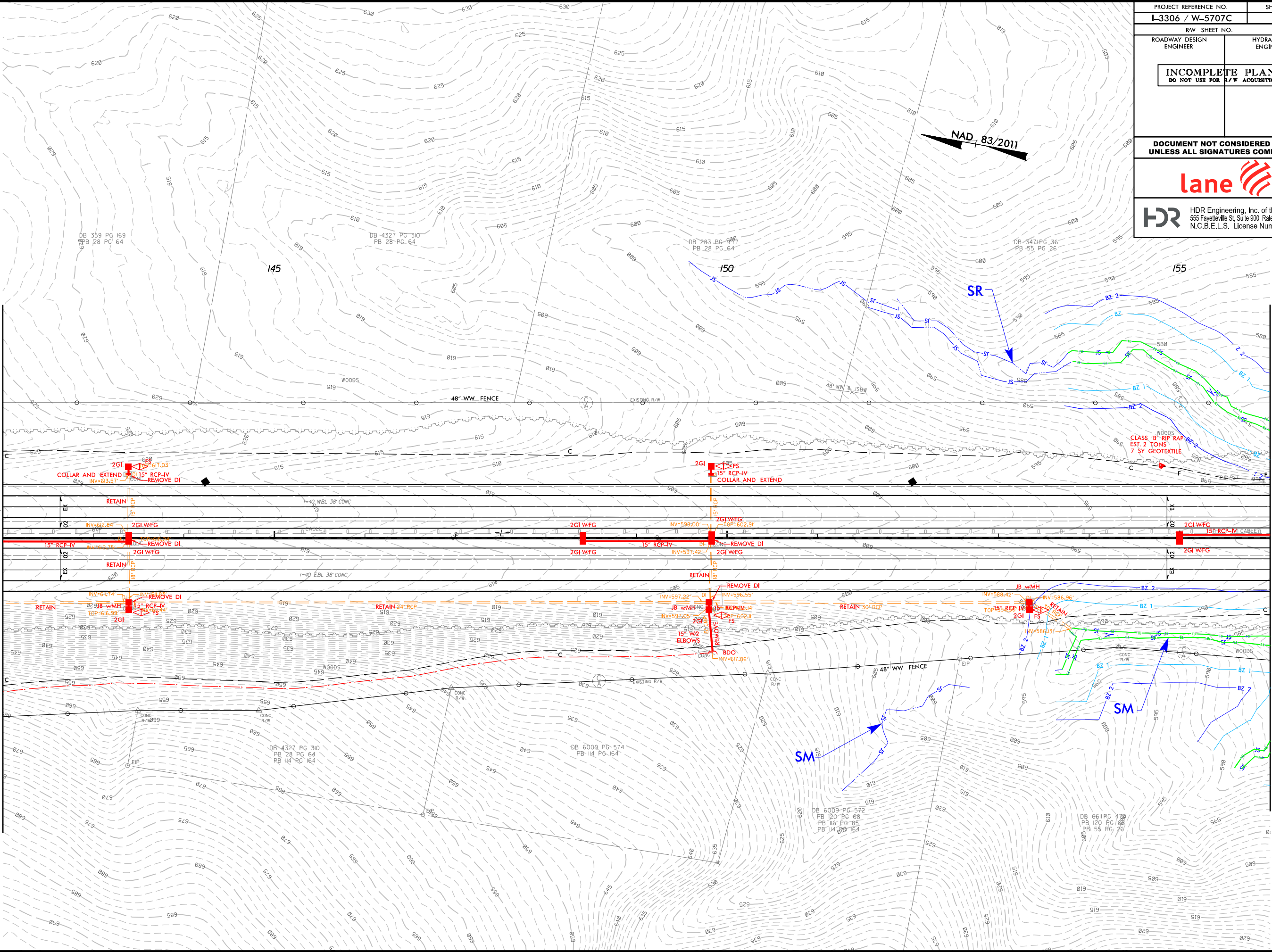


MATCHLINE SEE SHEET 15

MATCHLINE -L- STA. 142+00, SEE SHEET 17

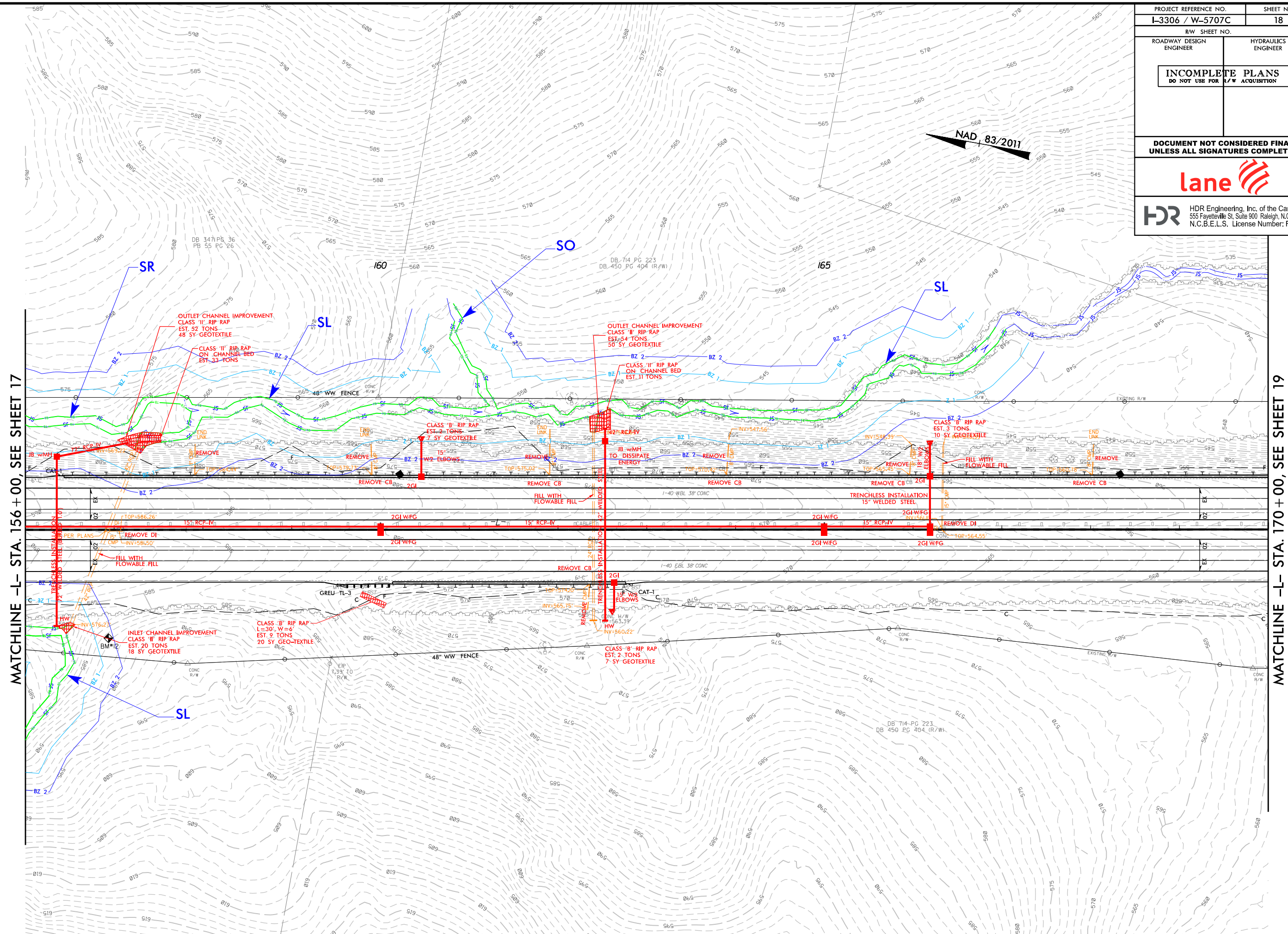
REVISIONS

MATCHLINE -L- STA. 142 + 00, SEE SHEET 16



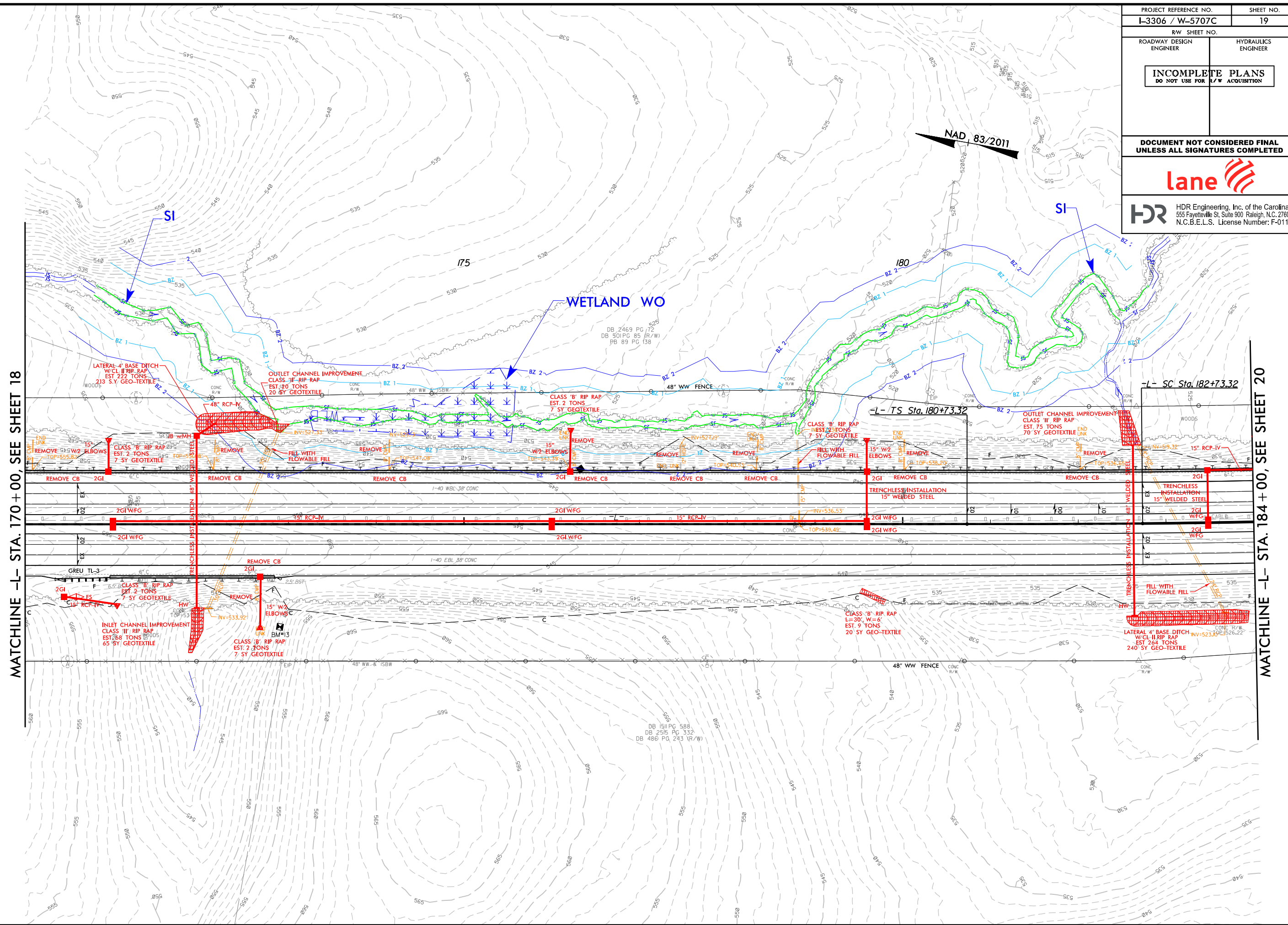
MATCHLINE -L- STA. 156 + 00, SEE SHEET 18

PROJECT REFERENCE NO. L-3306 / W-5707C		SHEET NO. 17	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
lane			
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MATCHLINE -L- STA. 156+00, SEE SHEET 17

MATCHLINE -L- STA. 170+00, SEE SHEET 19

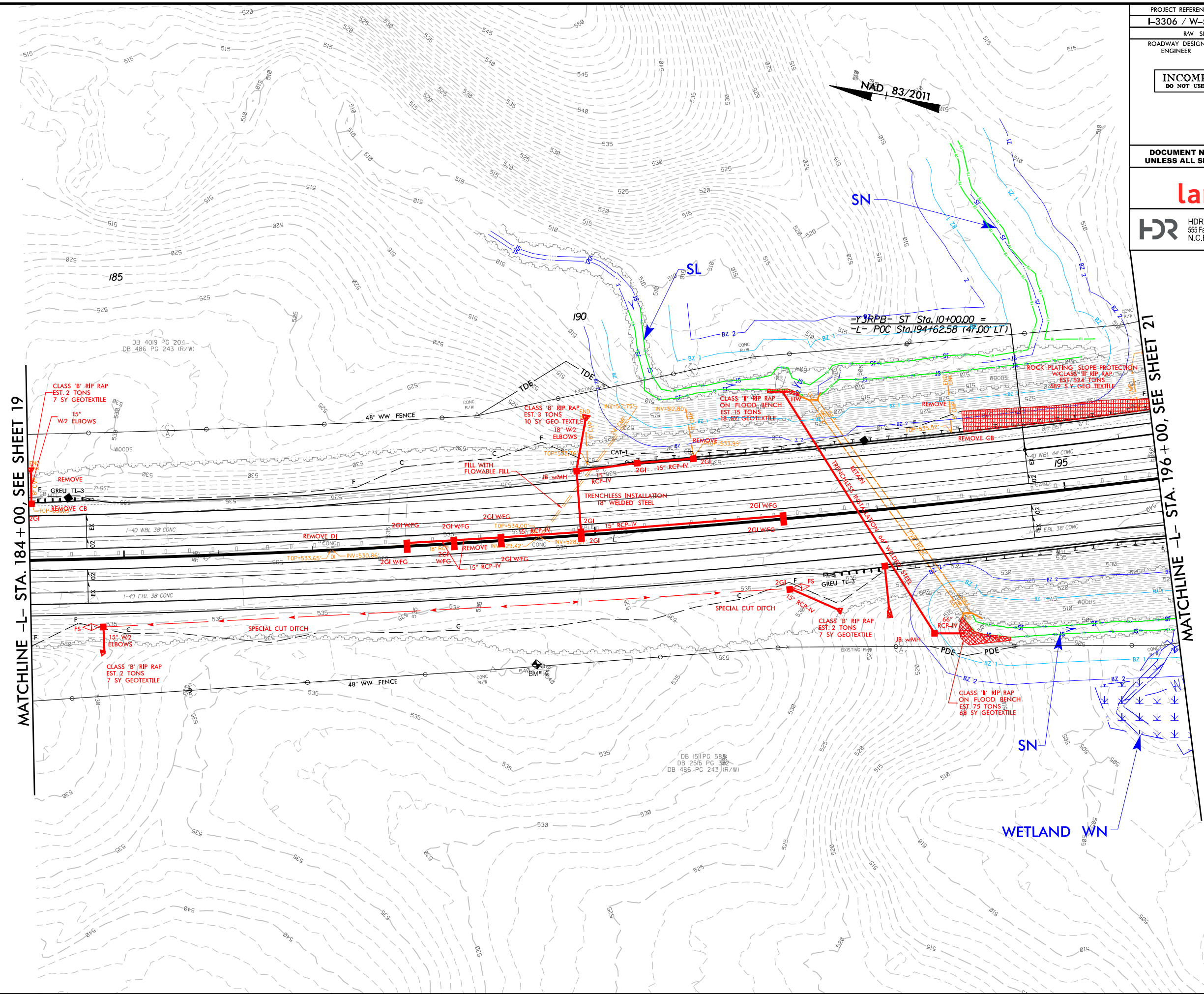


MATCHLINE -L- STA. 170+00, SEE SHEET 18

MATCHLINE -L- STA. 184+00, SEE SHEET 20

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REVISIONS

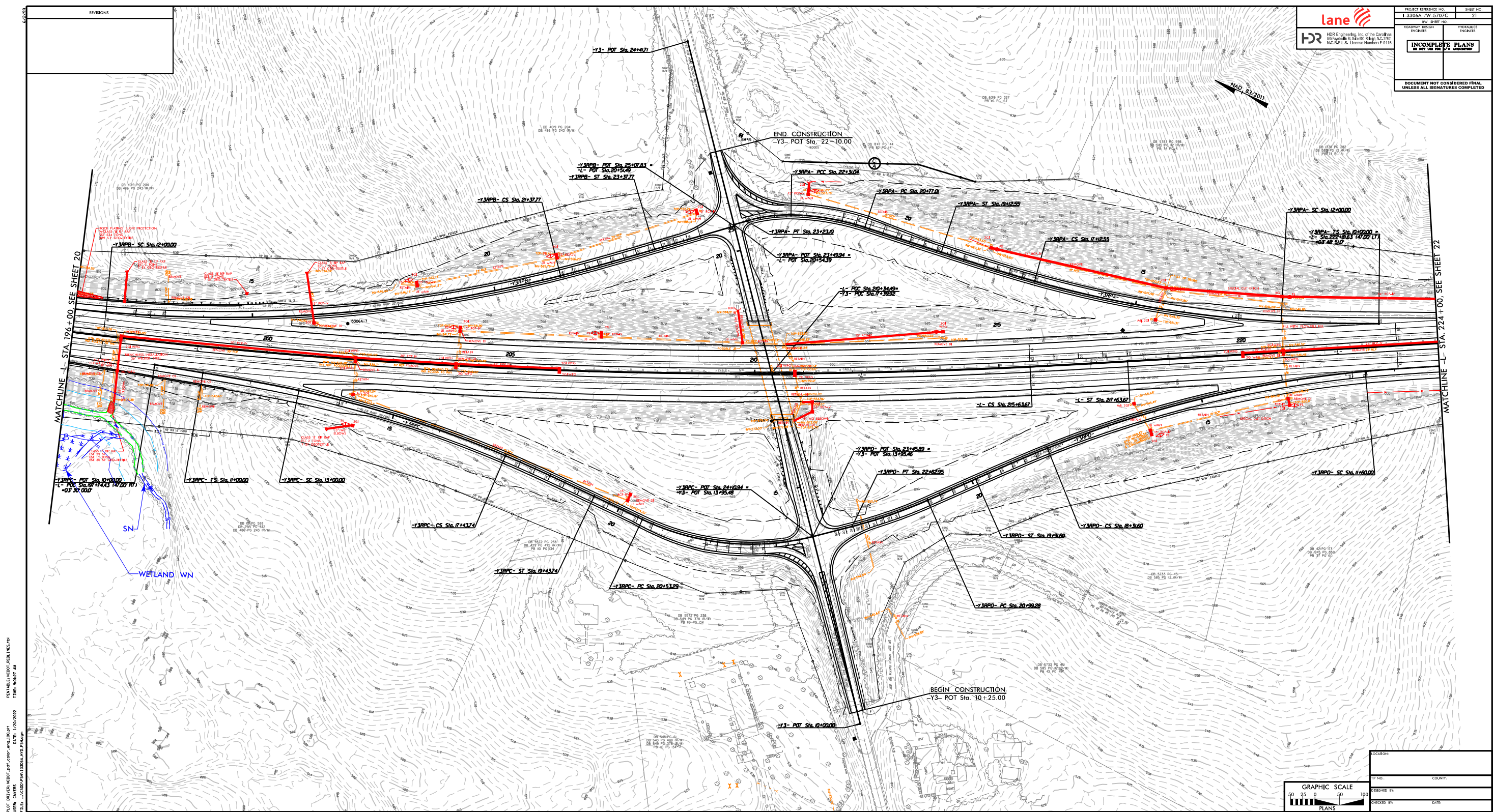


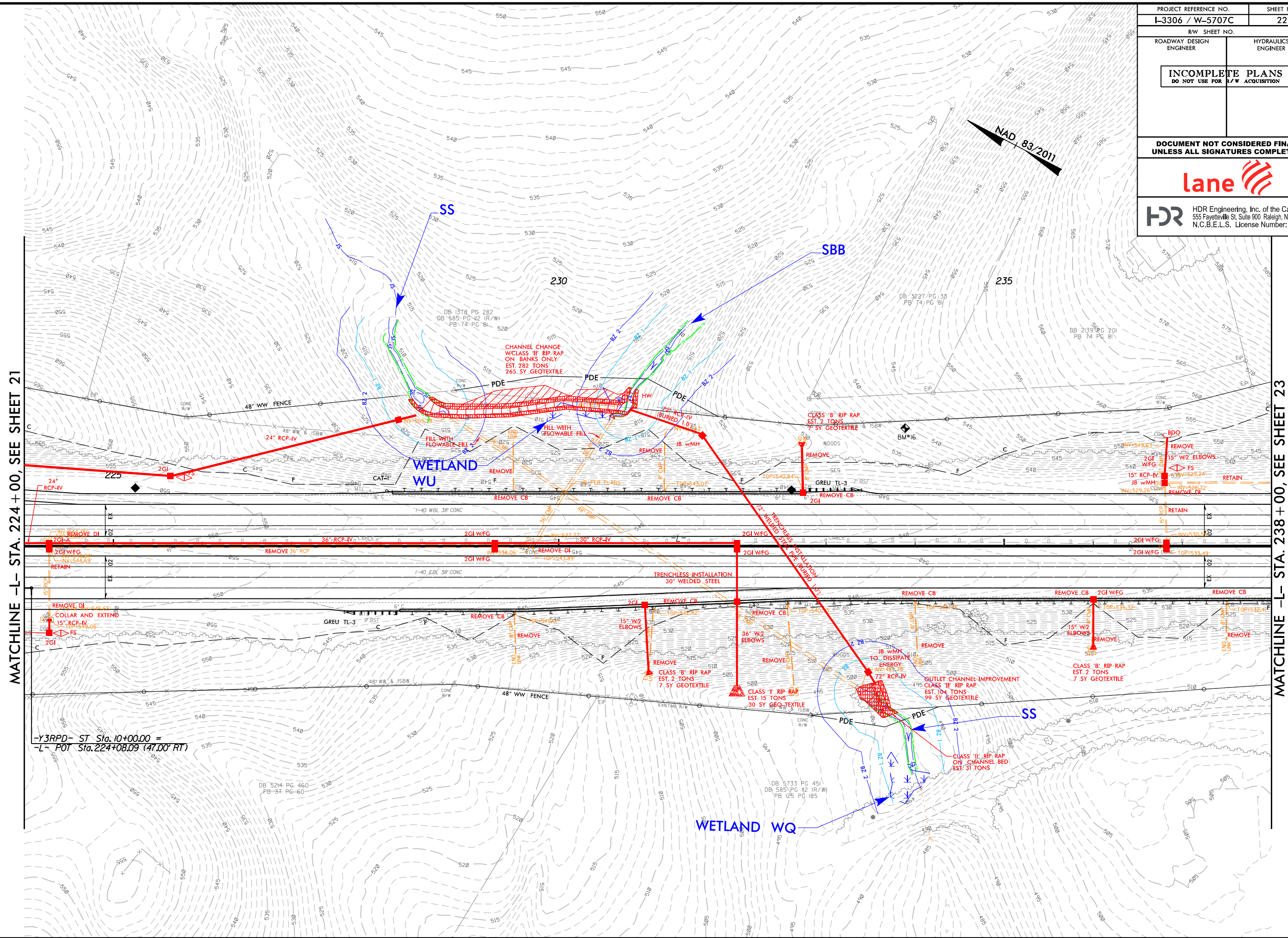
MATCHLINE -L- STA. 184+00, SEE SHEET 19

MATCHLINE -L- SIG: 1

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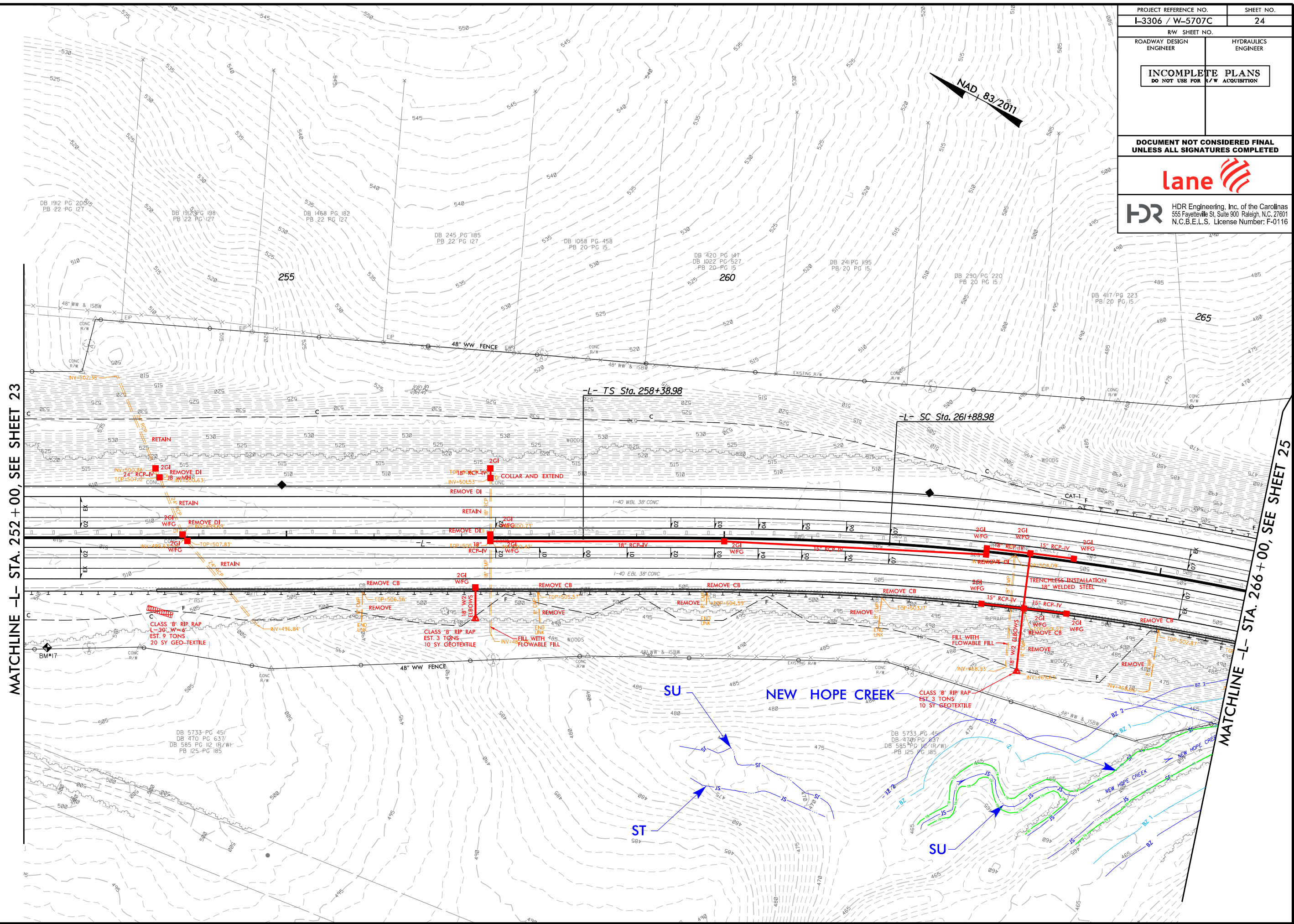
REVISIONS





MATCHLINE -L- STA. 224+00, SEE SHEET 21

MATCHLINE -L- STA. 238+00, SEE SHEET 23



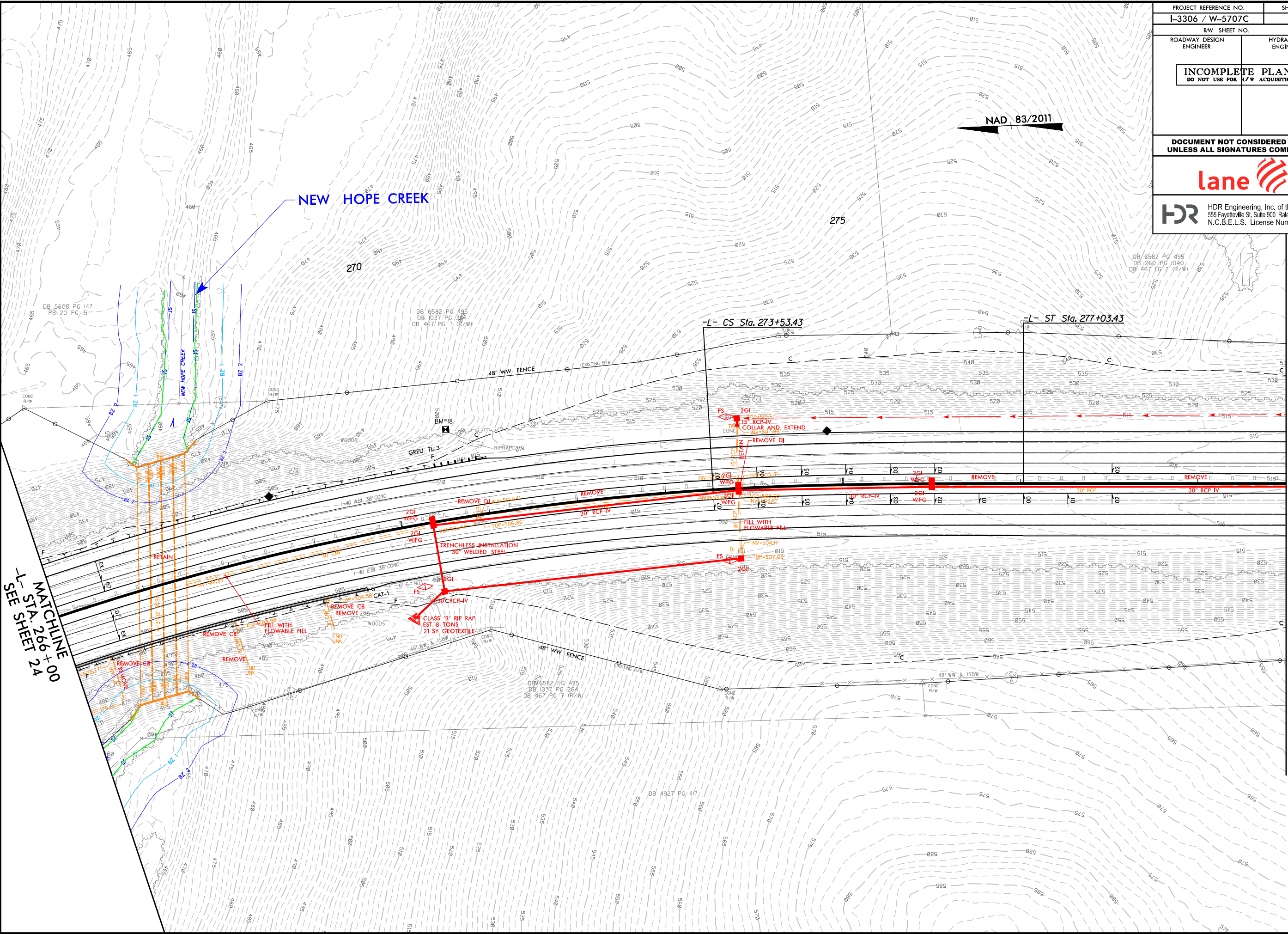
MATCHLINE -L- STA. 252+00, SEE SHEET 23

MATCHLINE -L- STA. 266+00, SEE SHEET 25

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REVISIONS

REVISIONS



PROJECT REFERENCE NO. L-3306 / W-5707C		SHEET NO. 25	
RW SHEET NO.		HYDRAULICS ENGINEER	
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 -L- STA. 280+00, SEE SHEET 26

lane 

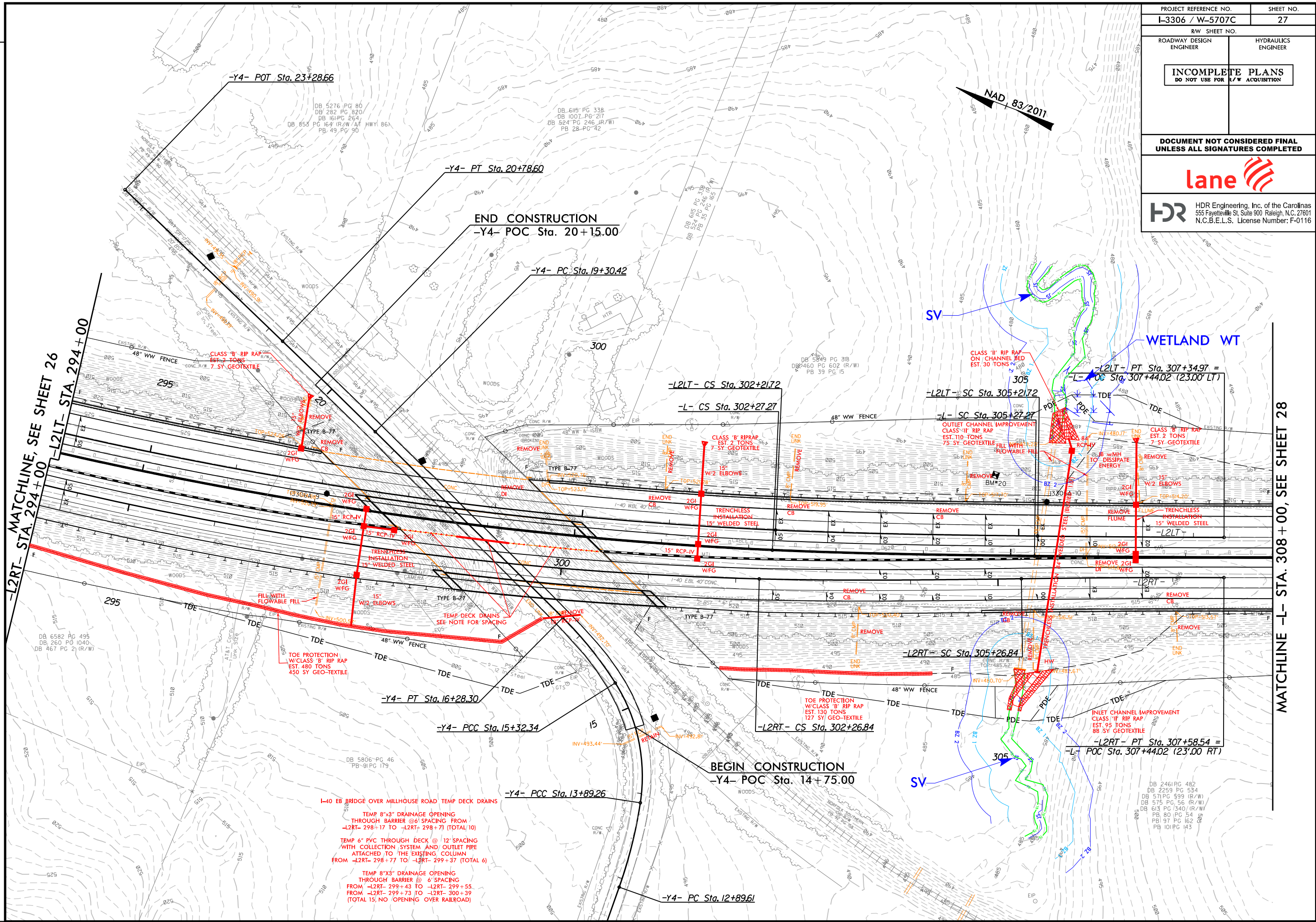
HDR HDR Engineering, Inc. of the Carolinas
555 Fayetteville St, Suite 900 Raleigh, N.C. 27601
N.C.B.E.L.S. License Number: F-0116

—L2RT— STA. 294 + 00 L2LT— STA. 294 + 00
MATCHLINE, SEE SHEET 27

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REVISIONS

REVISIONS

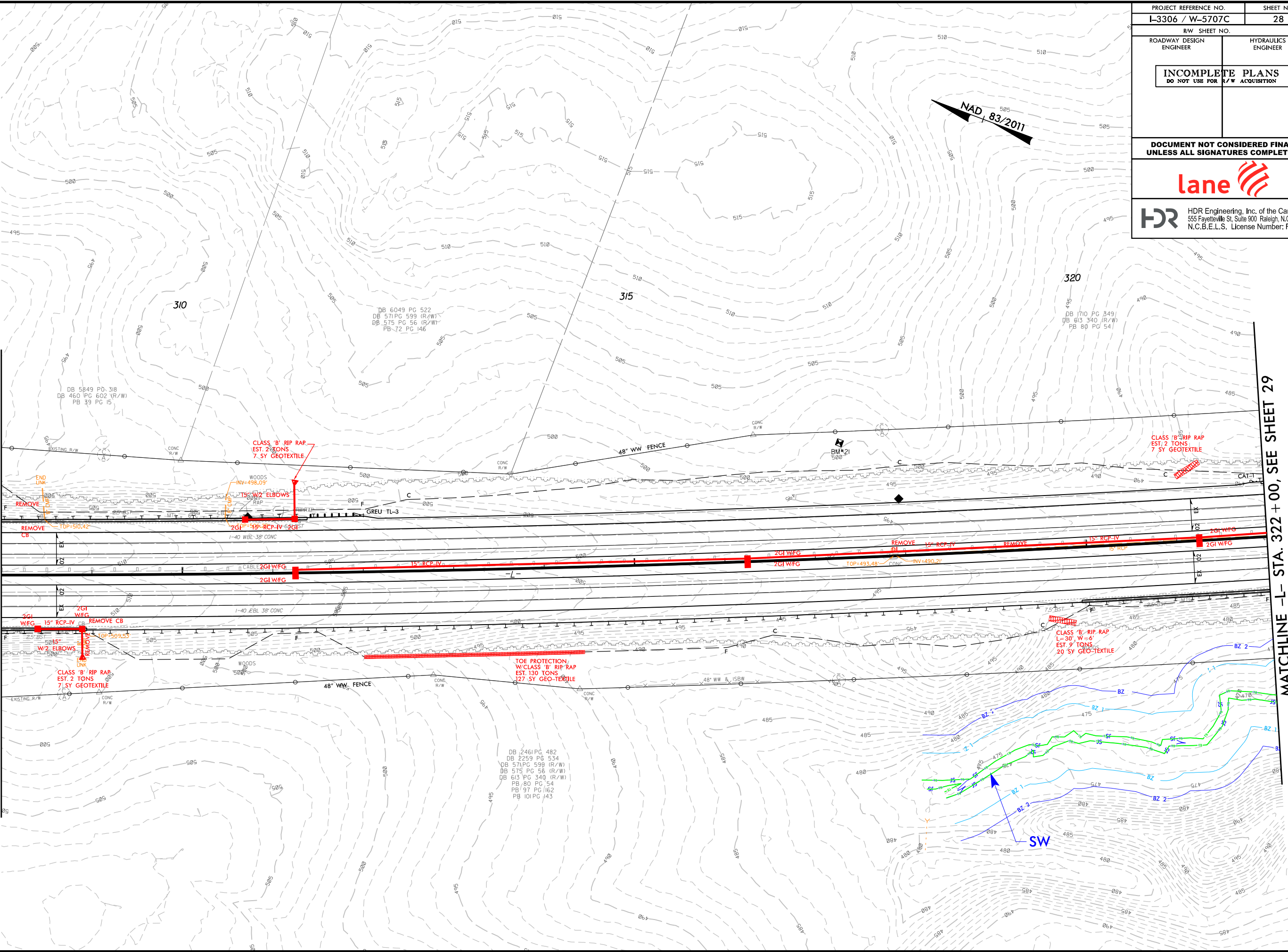


PROJECT REFERENCE NO. L-3306 / W-5707C		SHEET NO. 27	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
lane			
HDR Engineering, Inc. of the Carolinas 555 Fayetteville St, Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116			

MATCHLINE -L- STA. 308+00, SEE SHEET 28

REVISIONS

MATCHLINE -L- STA. 308 + 00, SEE SHEET 27



MATCHLINE -L- STA. 322 + 00, SEE SHEET 29

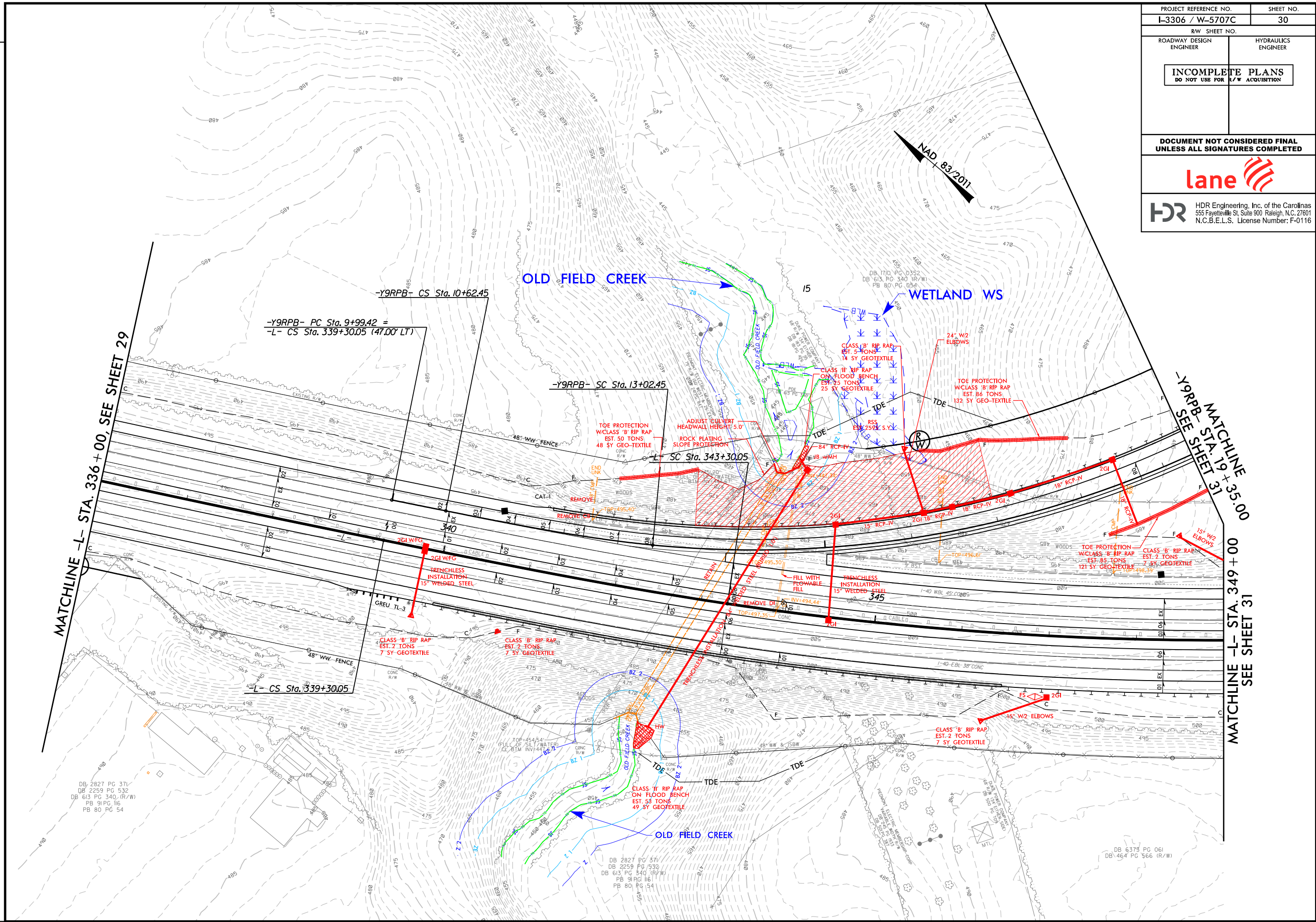
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RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
lane			
HDR HDR Engineering, Inc. of the Carolinas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

MATCHLINE -L- STA. 336+00, SEE SHEET 30

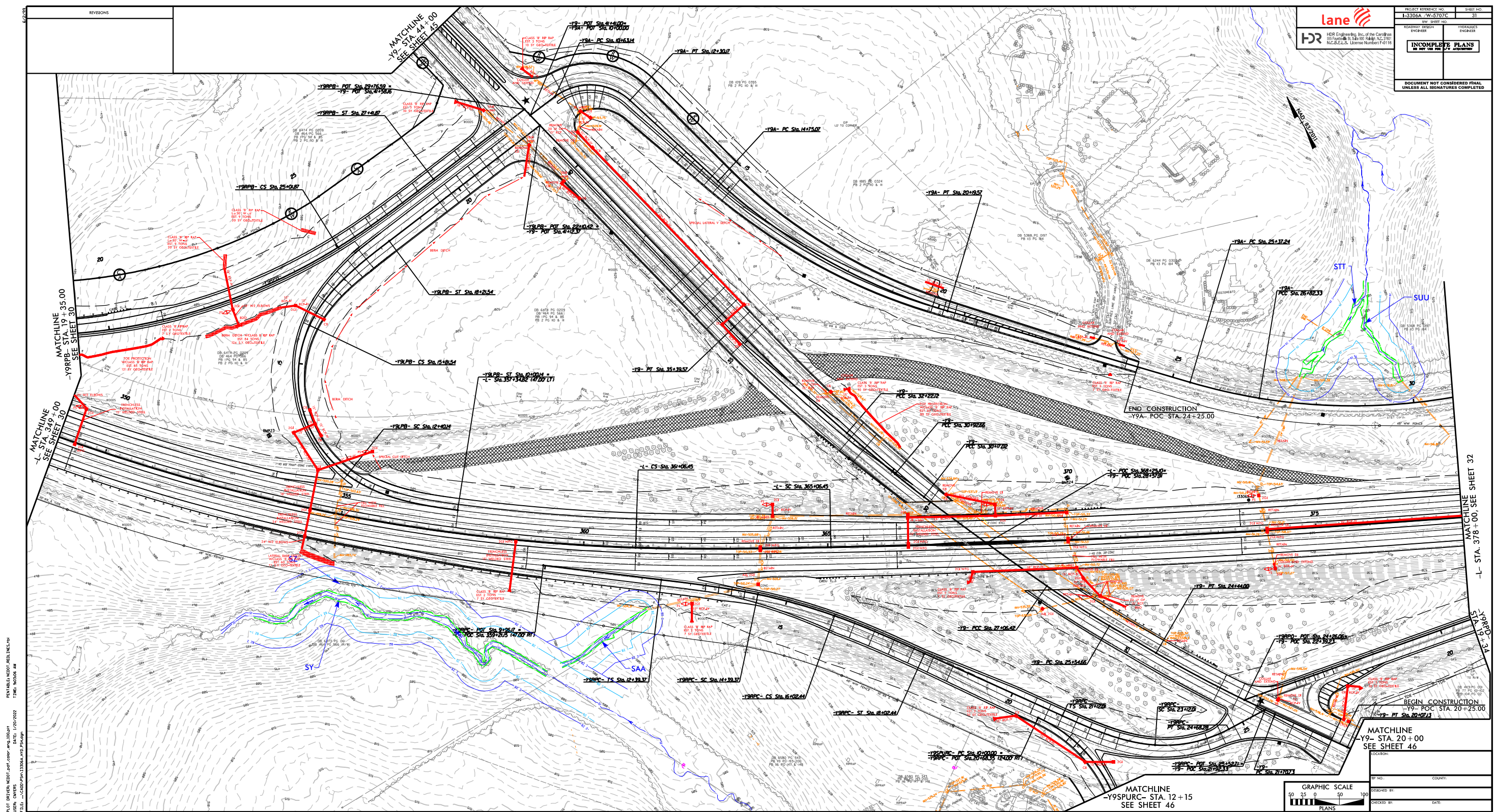
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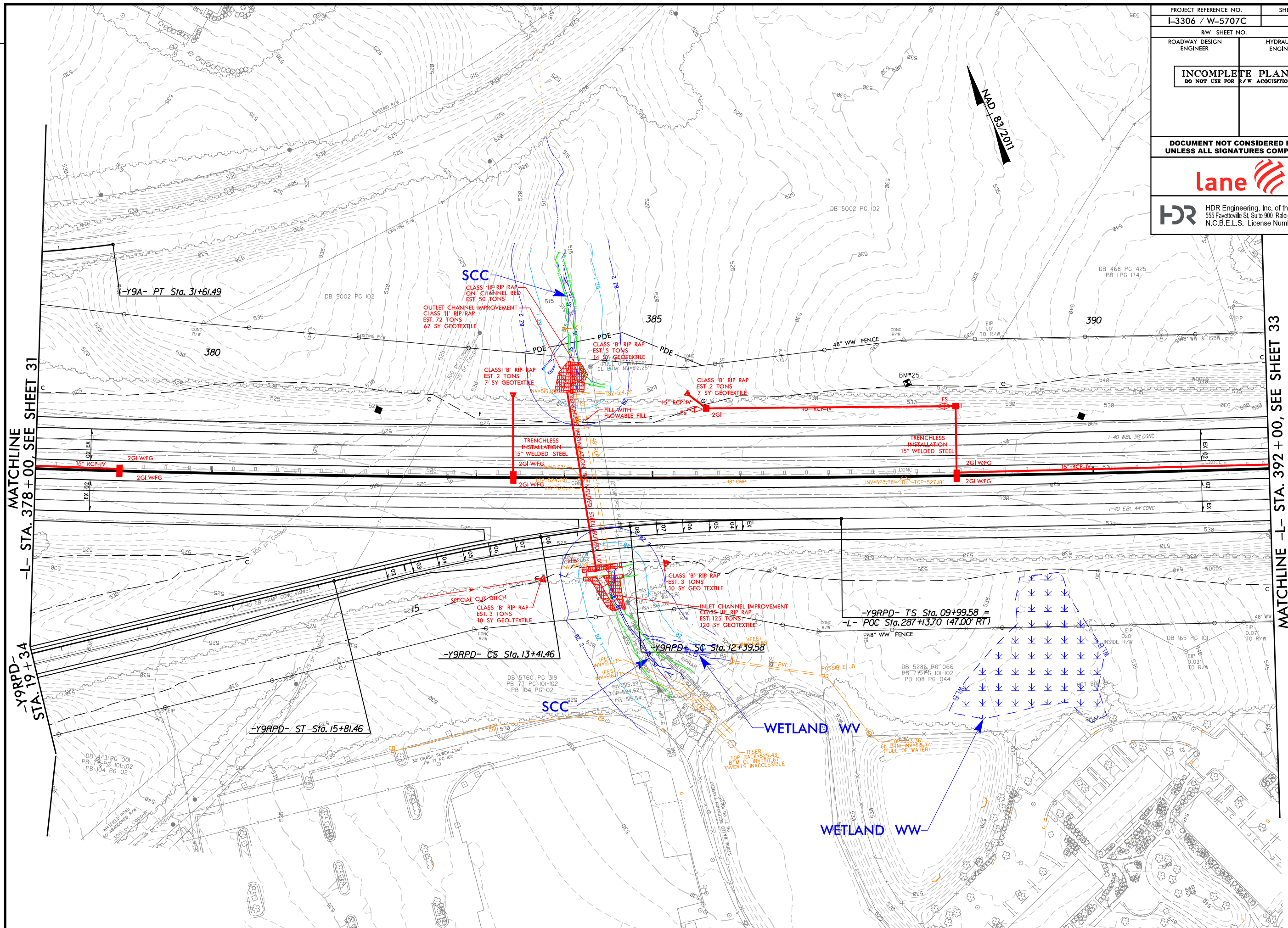
REVISIONS

REVISIONS



PROJECT REFERENCE NO. I-3306 / W-5707C		SHEET NO. 30	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
lane			
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			

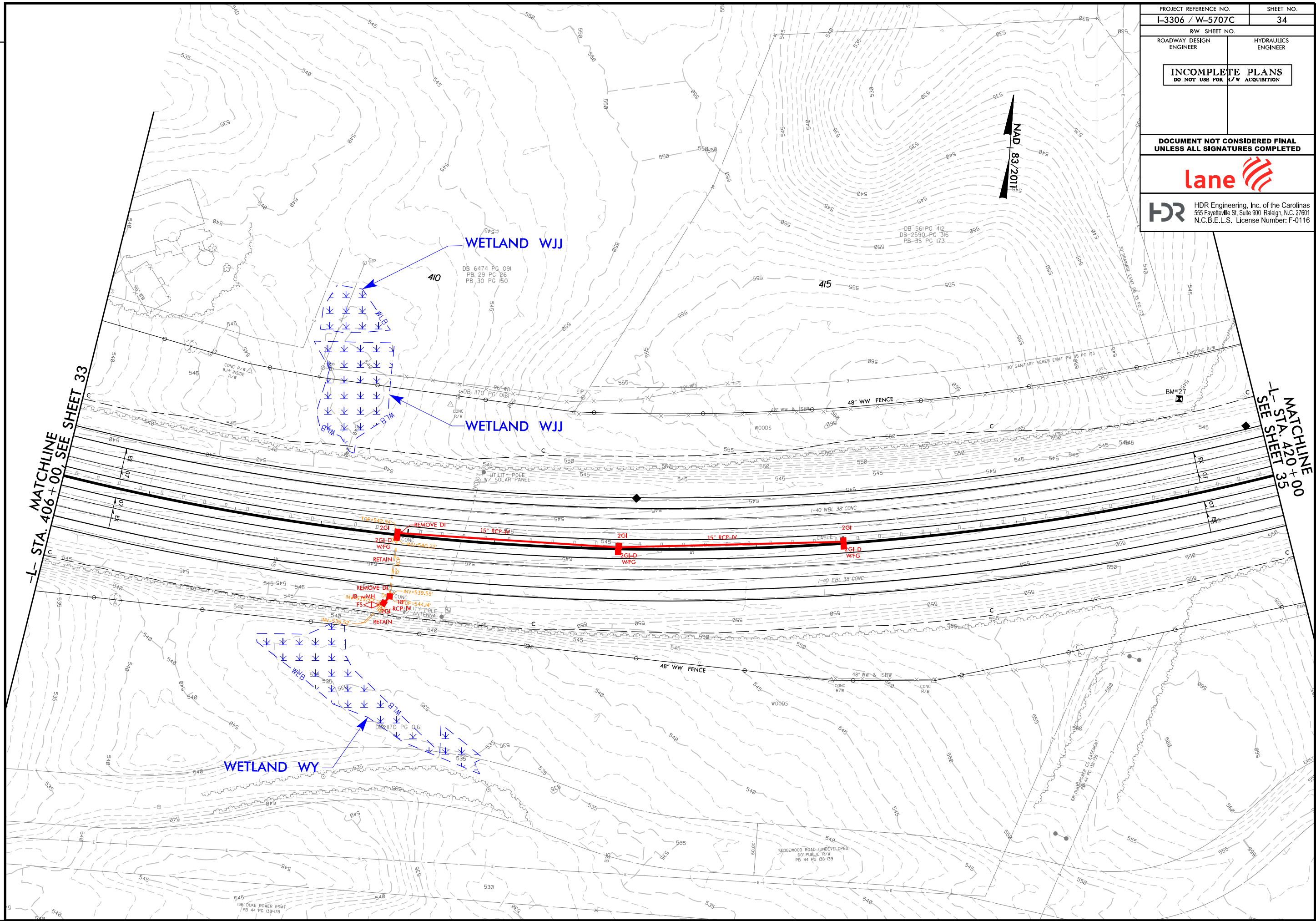




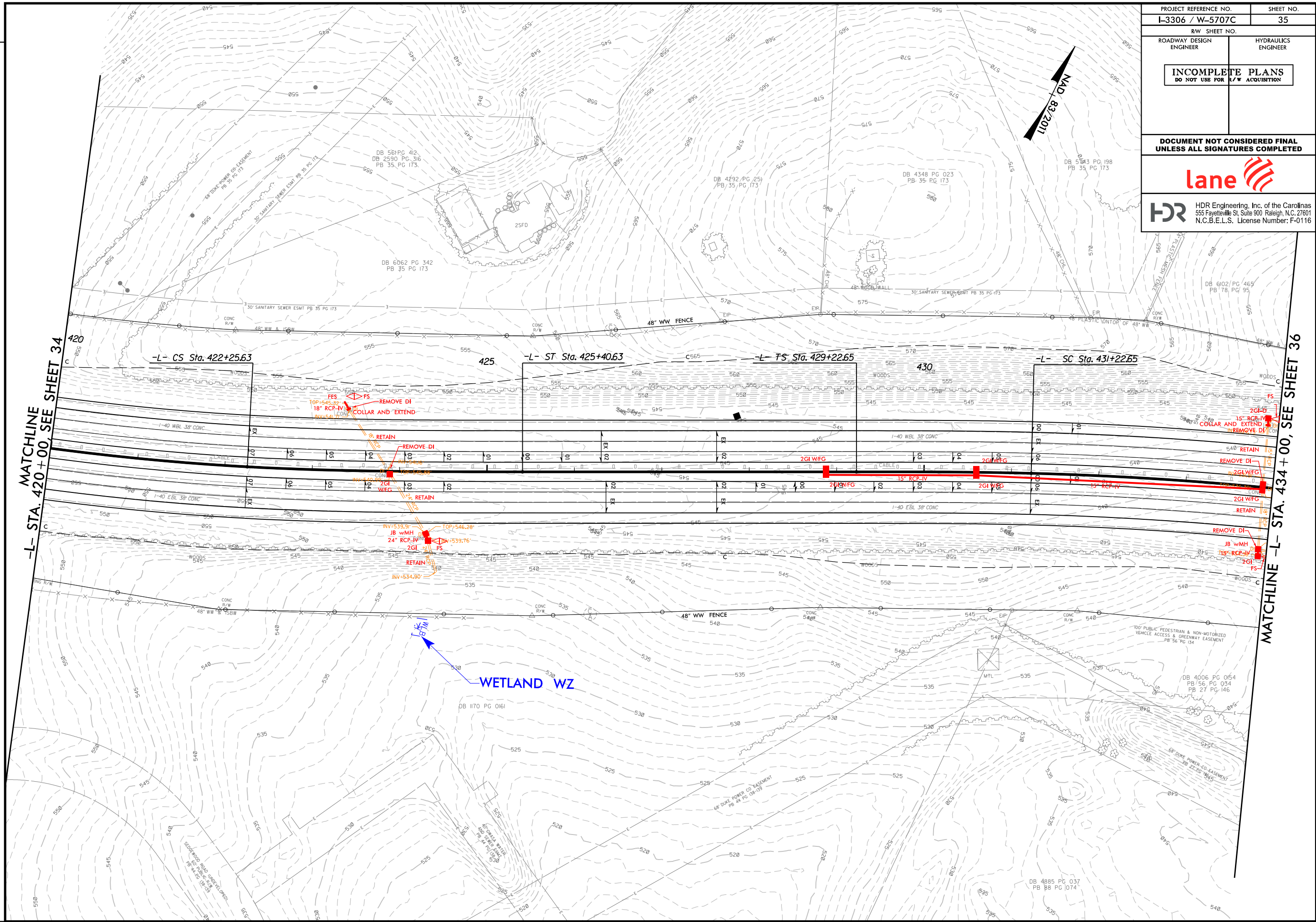
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REVISIONS

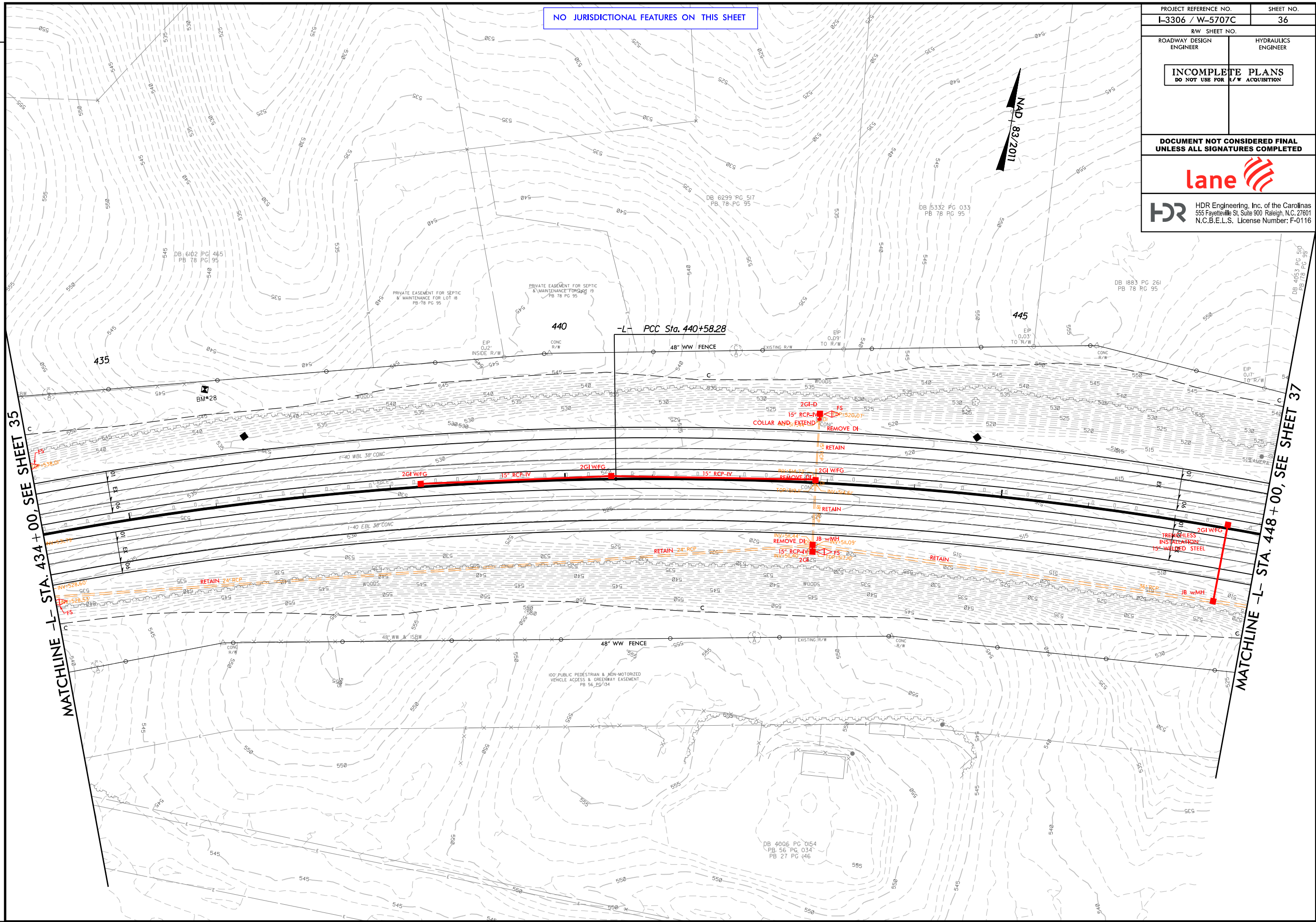


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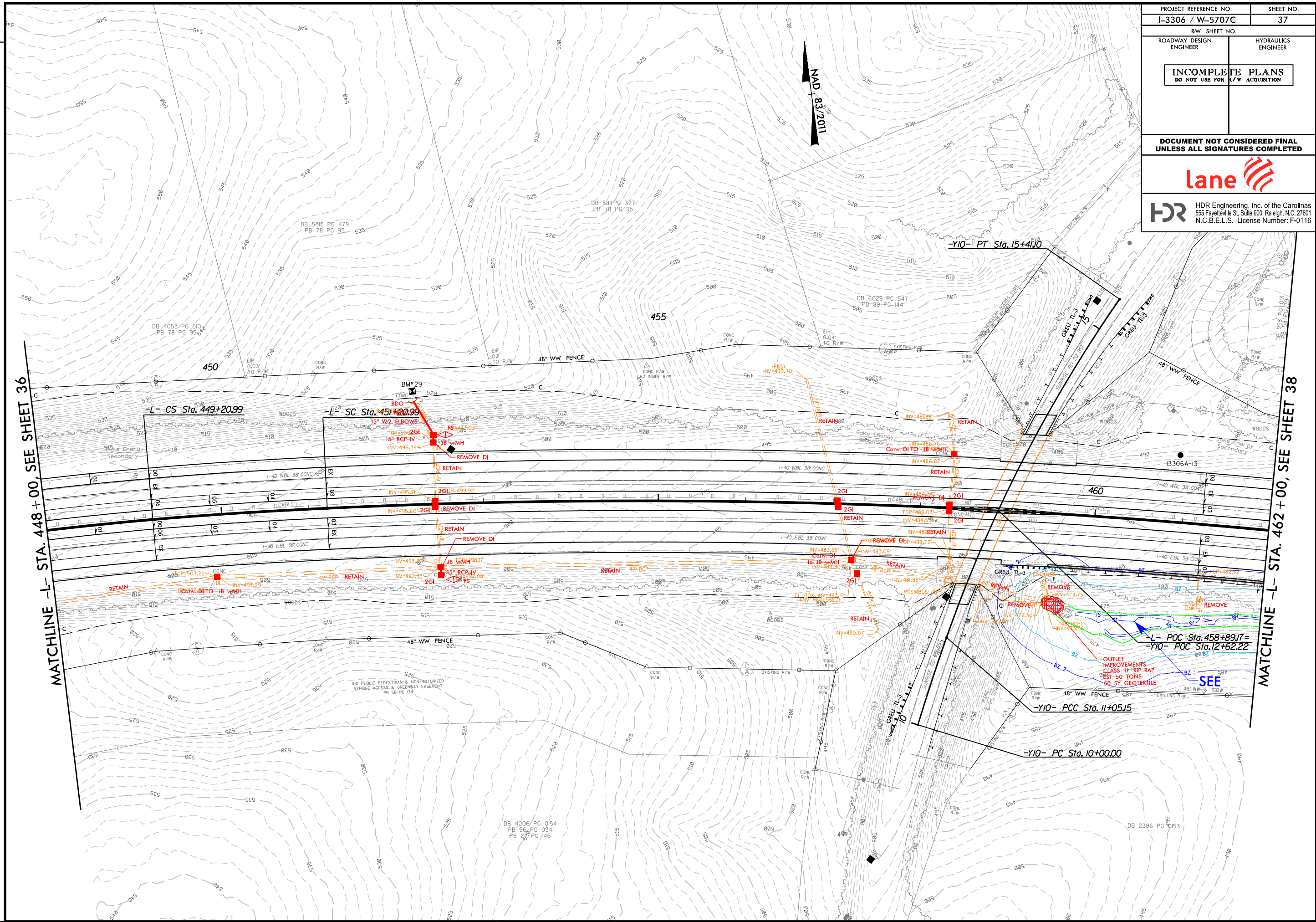
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INCOMPLETE PLANS DO NOT USE FOR A/W ACQUISITION			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
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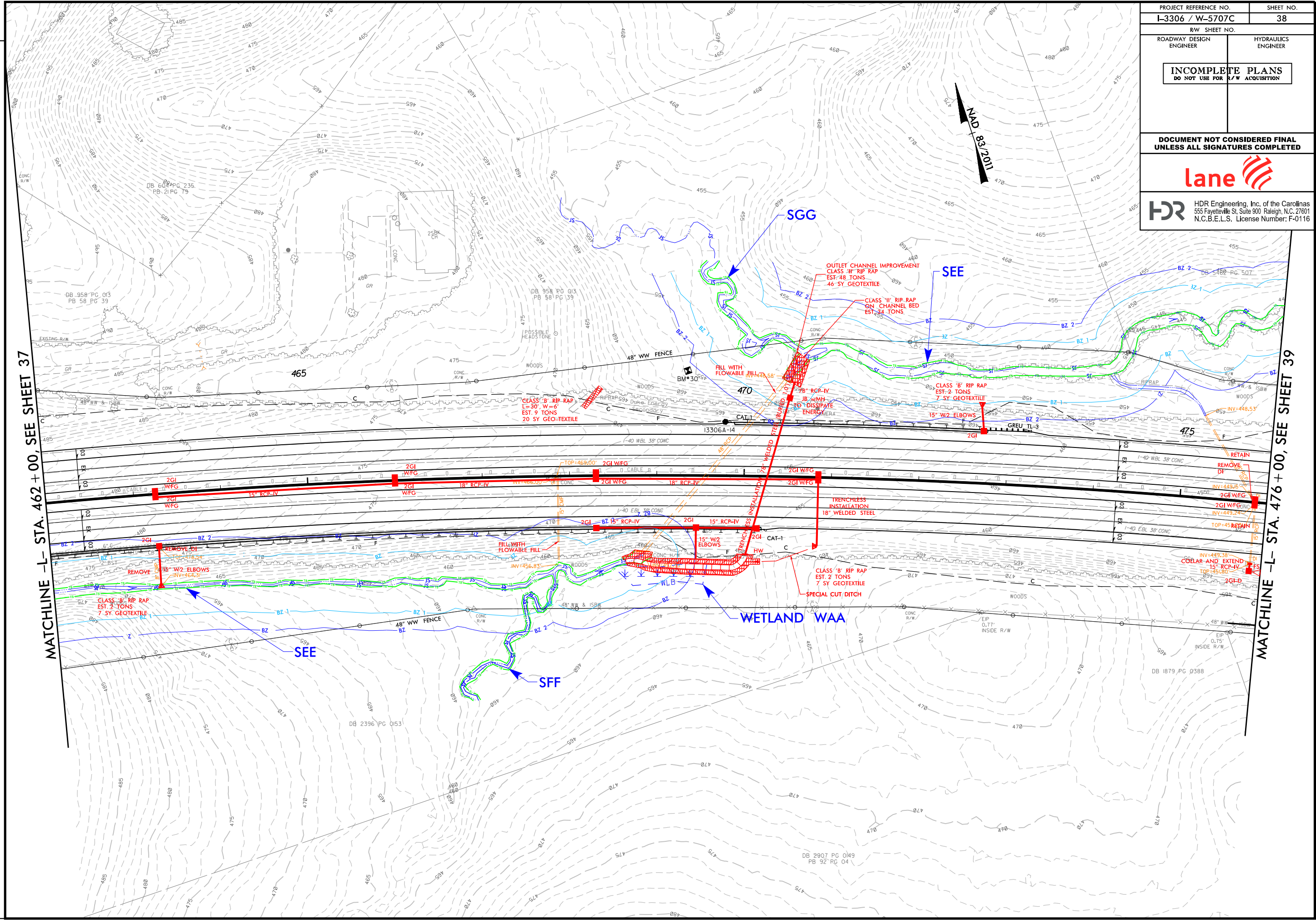
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DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
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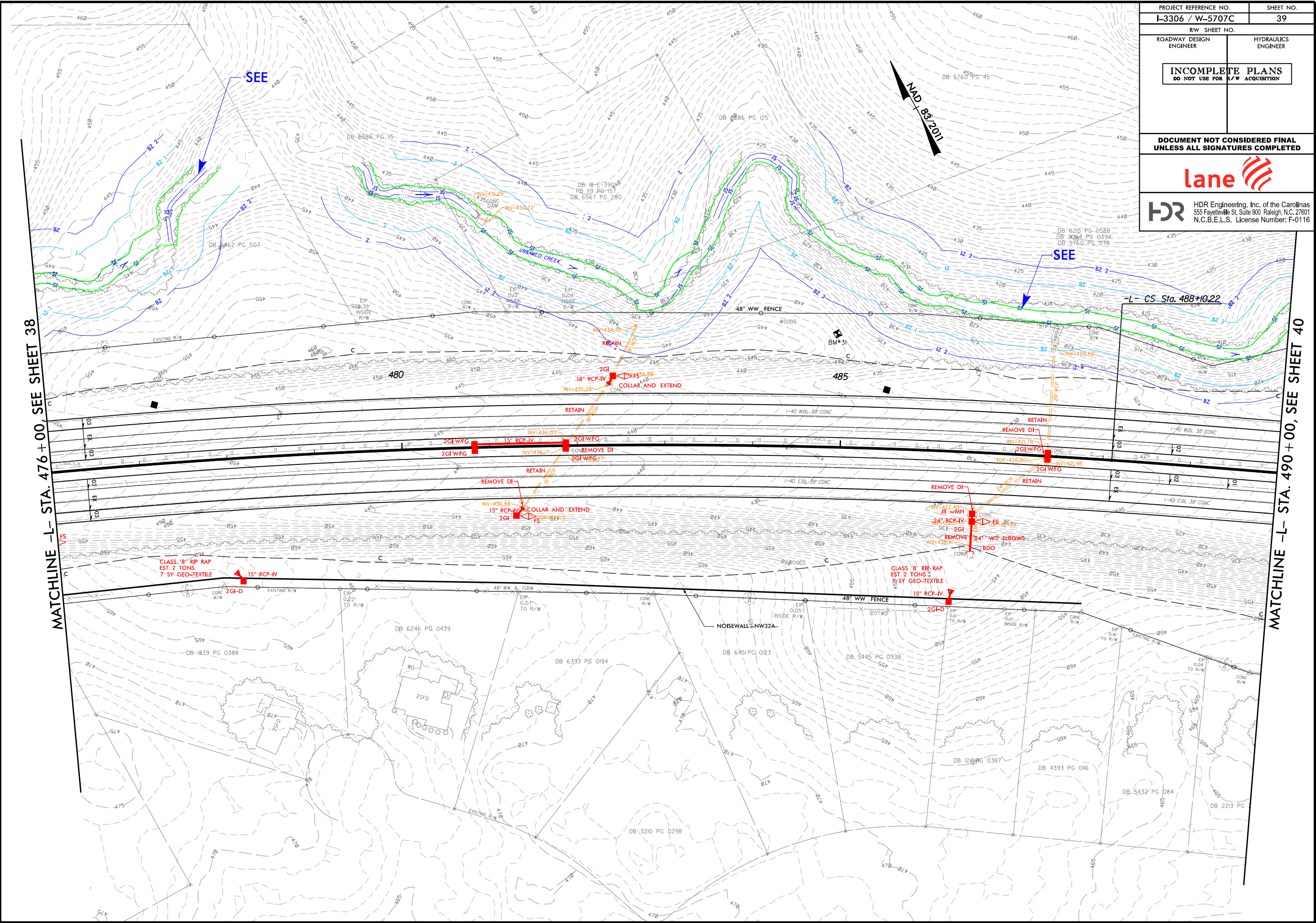
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INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
			
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PROJECT REFERENCE NO. L-3306 / W-5707C		SHEET NO. 38	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
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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			

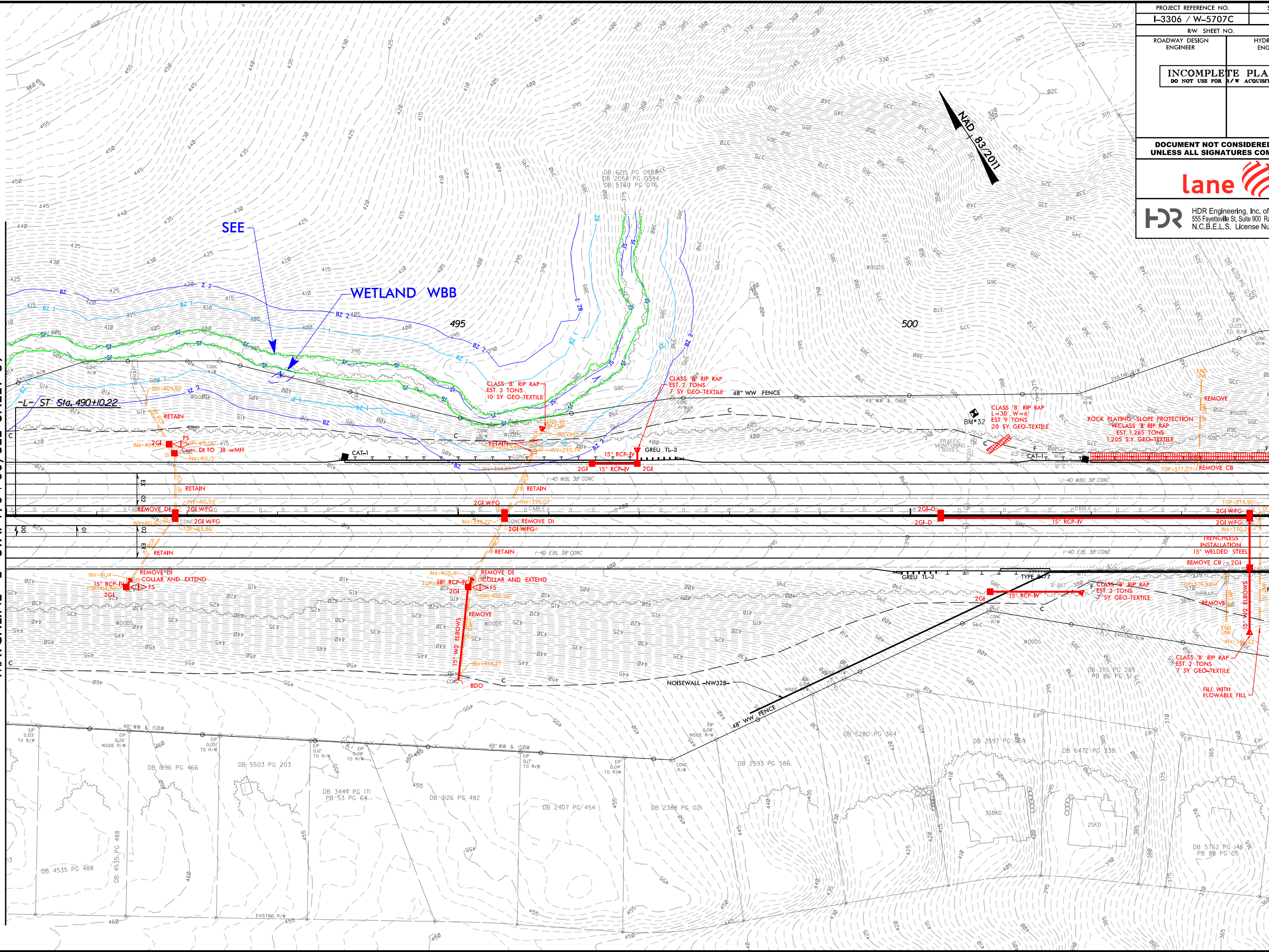
REVISIONS



PROJECT REFERENCE NO. I-3306 / W-5707C		SHEET NO. 39	
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DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
lane			
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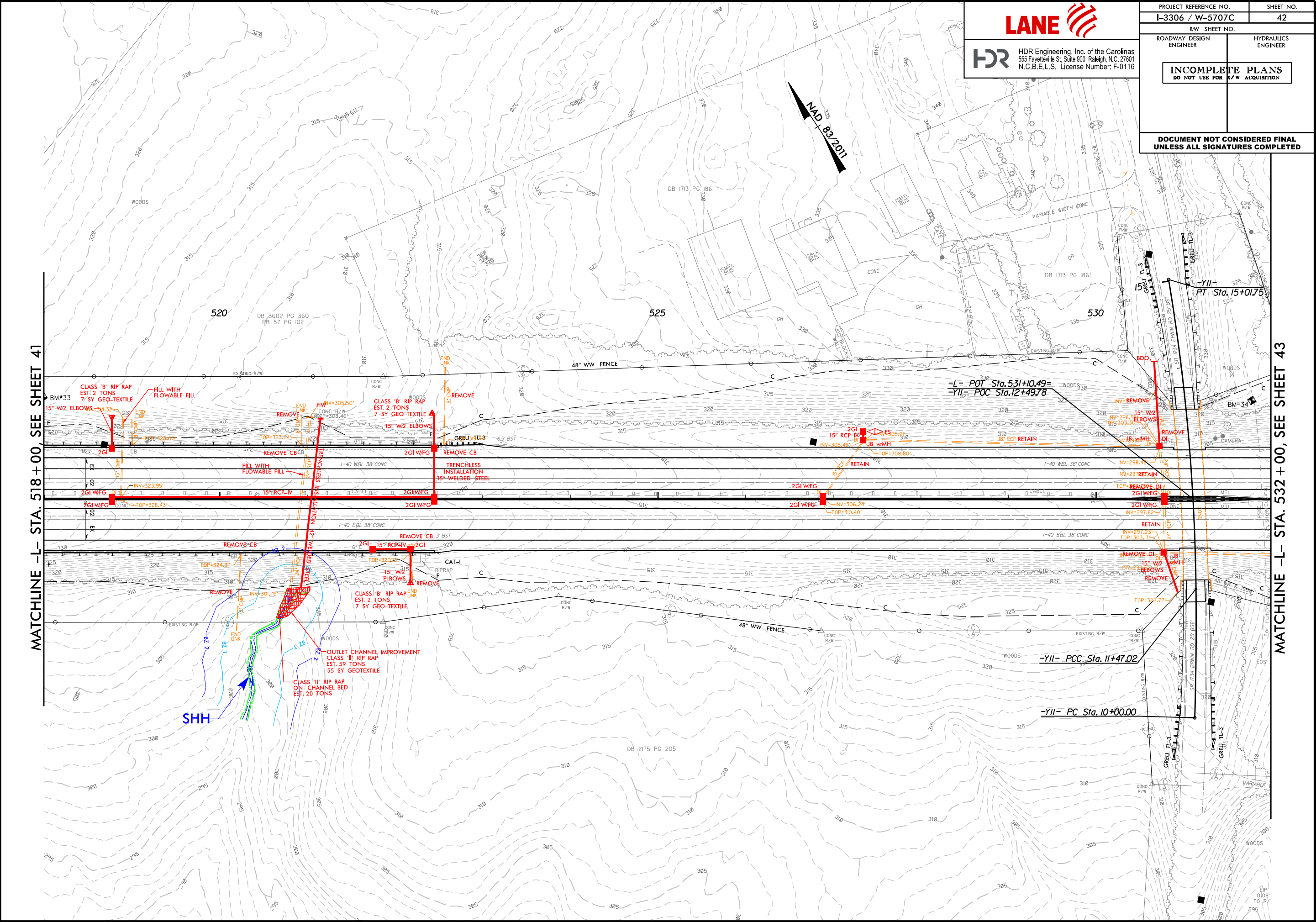
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MATCHLINE -L- STA. 504+00, SEE SHEET 41

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ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
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DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
lane			
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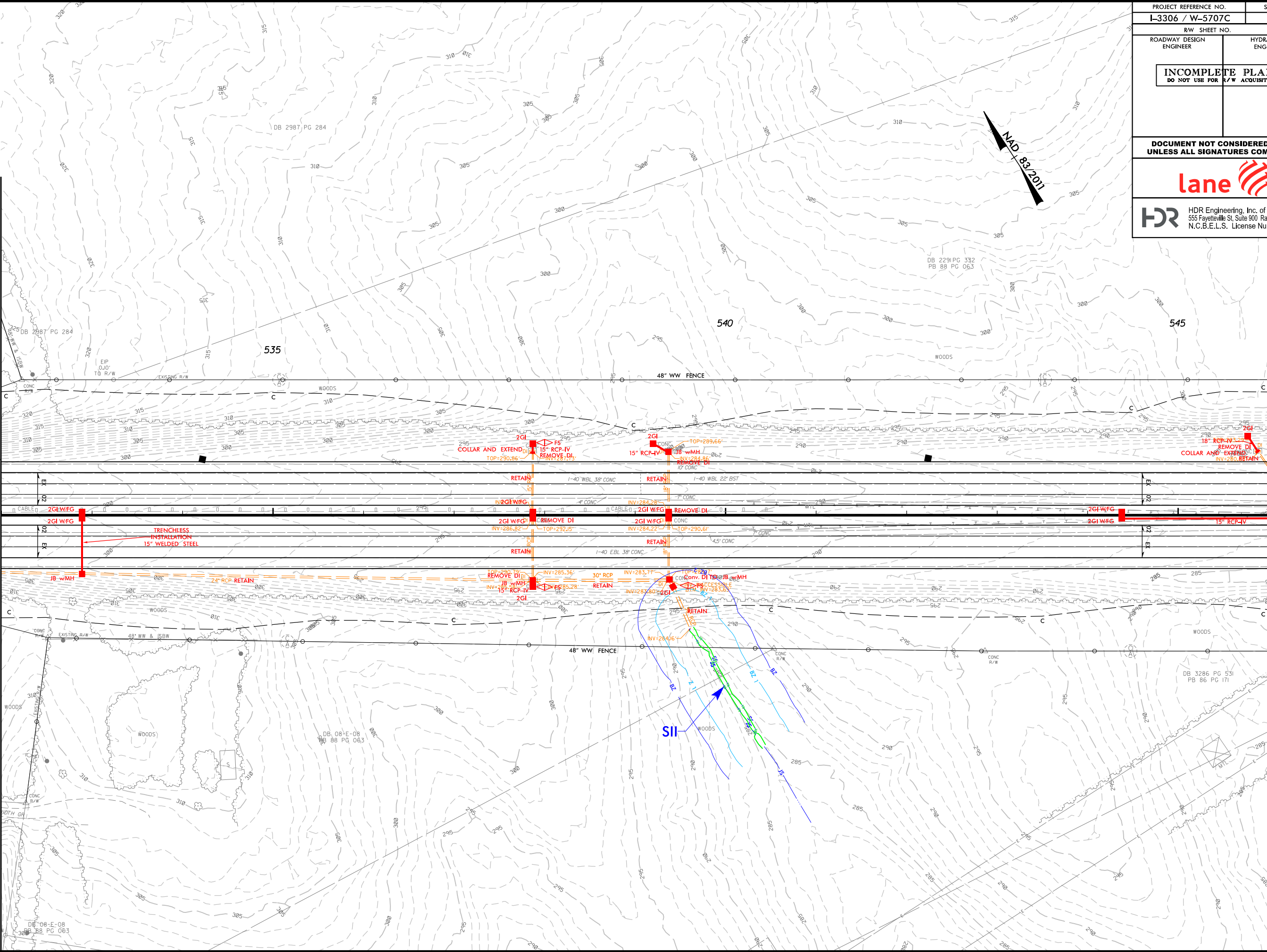
HDR Engineering, Inc. of the Carolinas
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PROJECT REFERENCE NO.		SHEET NO.	
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R/W SHEET NO.			
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DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

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REVISIONS

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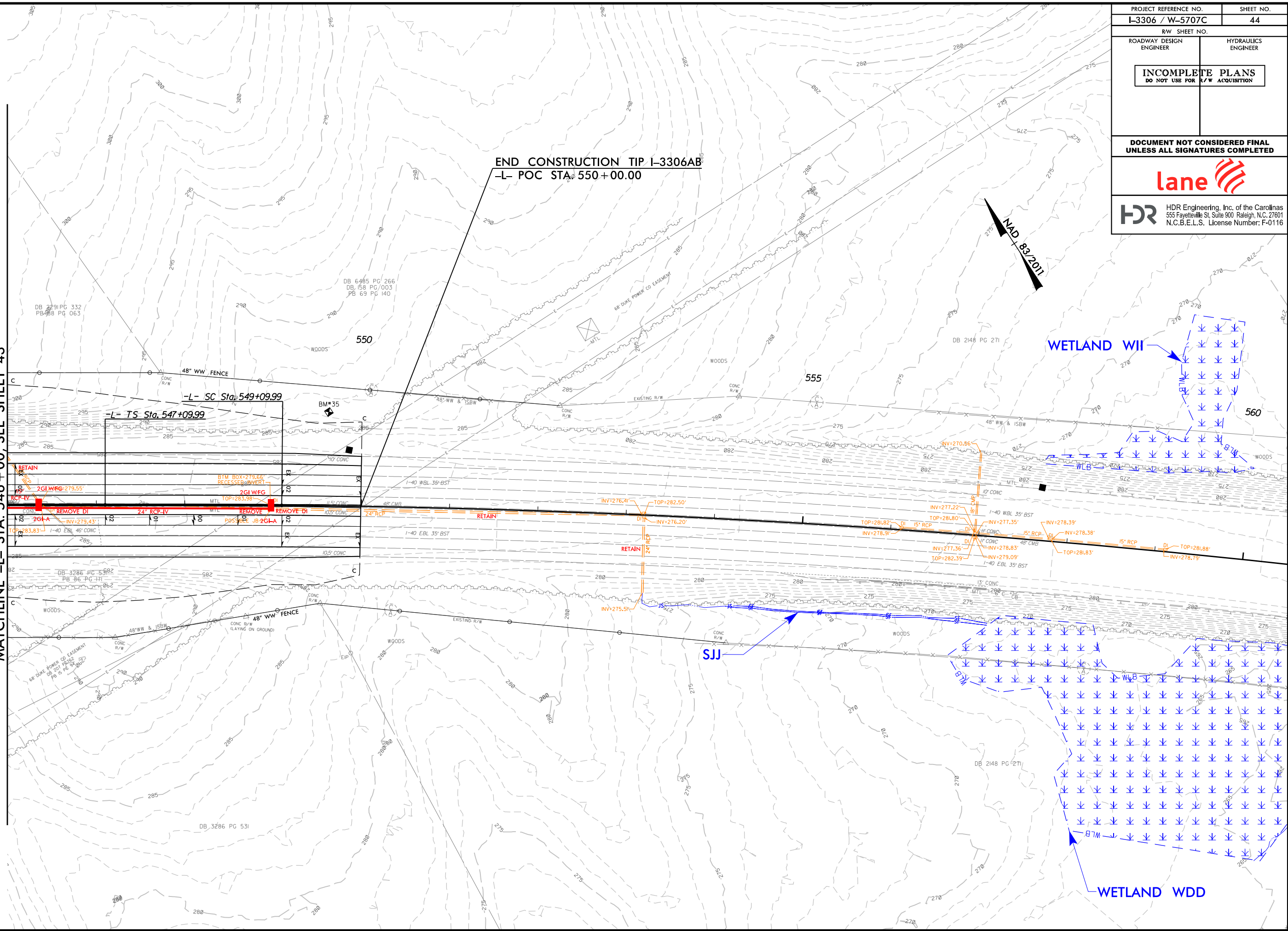


MATCHLINE -L- STA. 546 + 00, SEE SHEET 44

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ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
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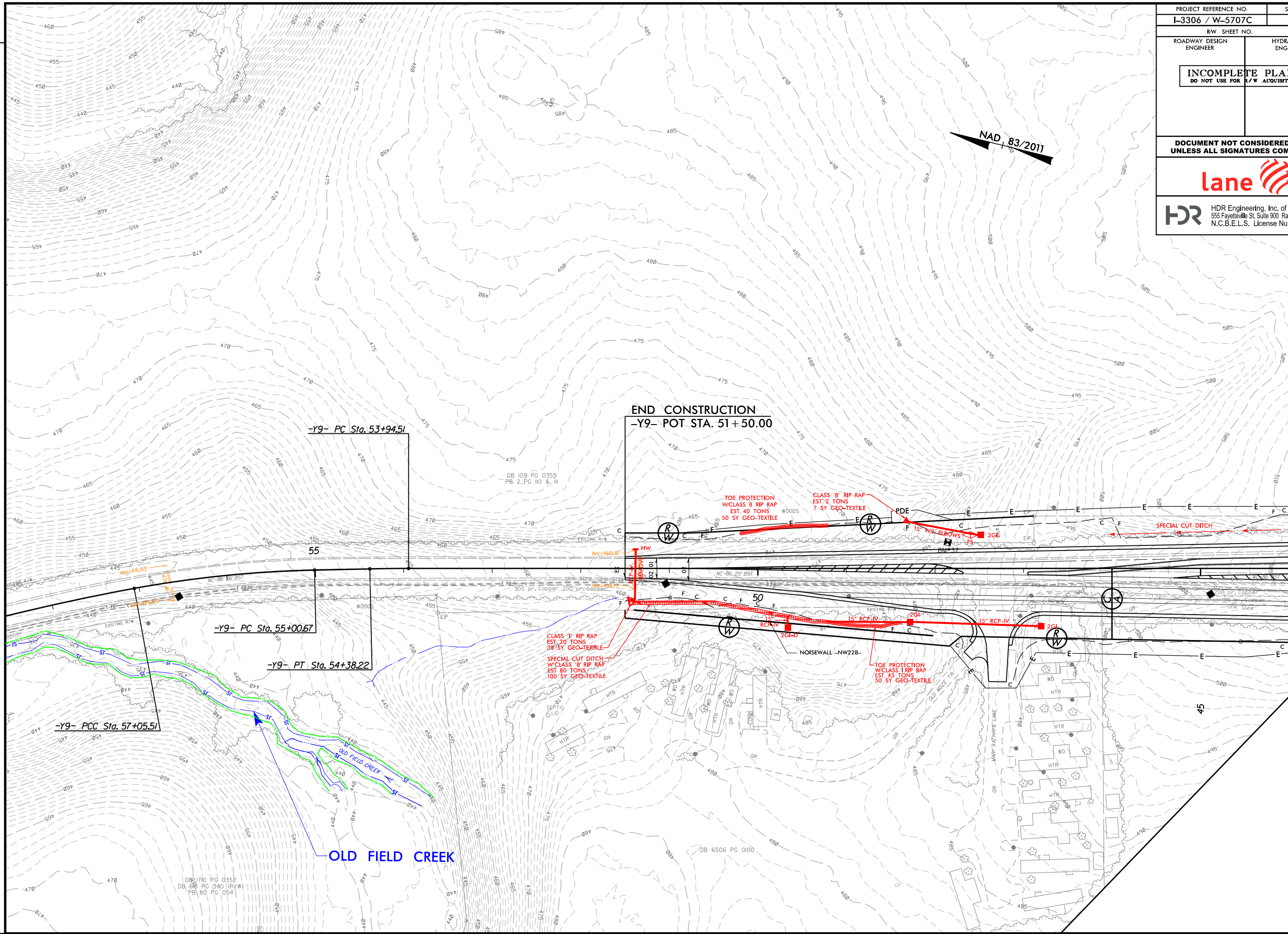
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INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
lane			
HDR HDR Engineering, Inc. of the Carolinas 555 Fayetteville St, Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116			

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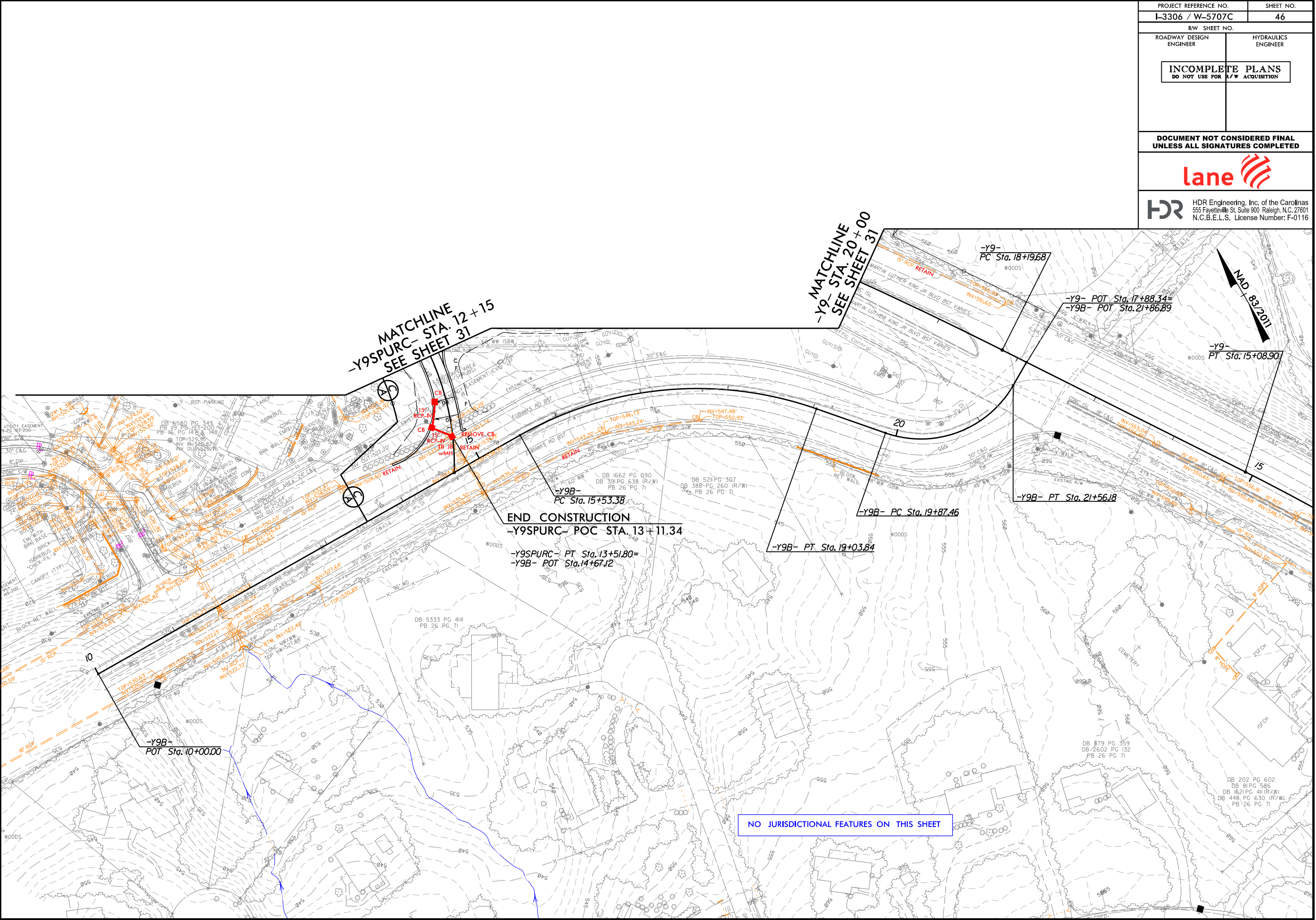
REVISIONS



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ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
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DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
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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			

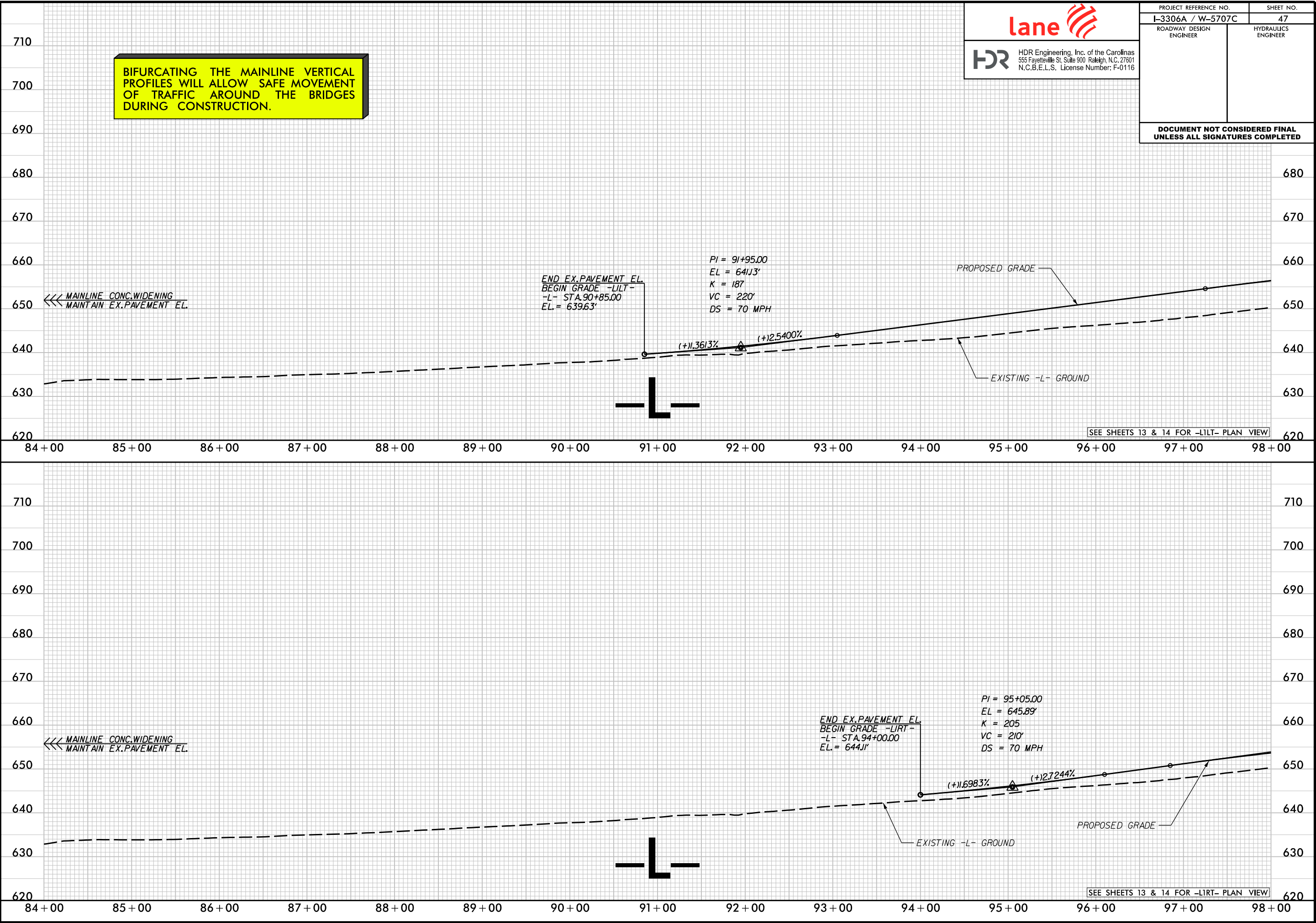
MATCHLINE -Y9- STA. 44 + 00, SEE SHEET 31

REVISIONS



PROJECT REFERENCE NO.		SHEET NO.	
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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			
			
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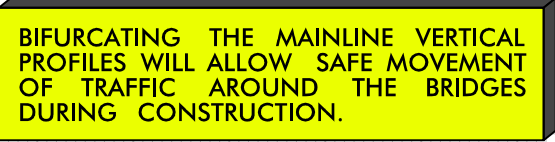
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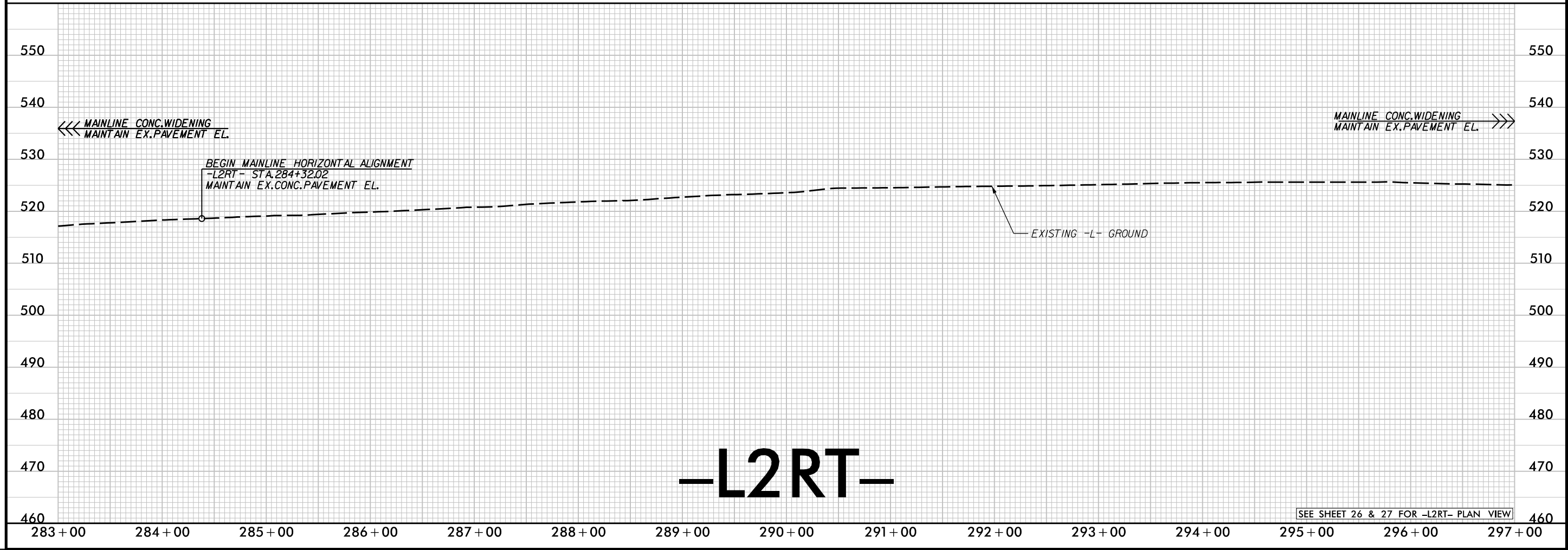
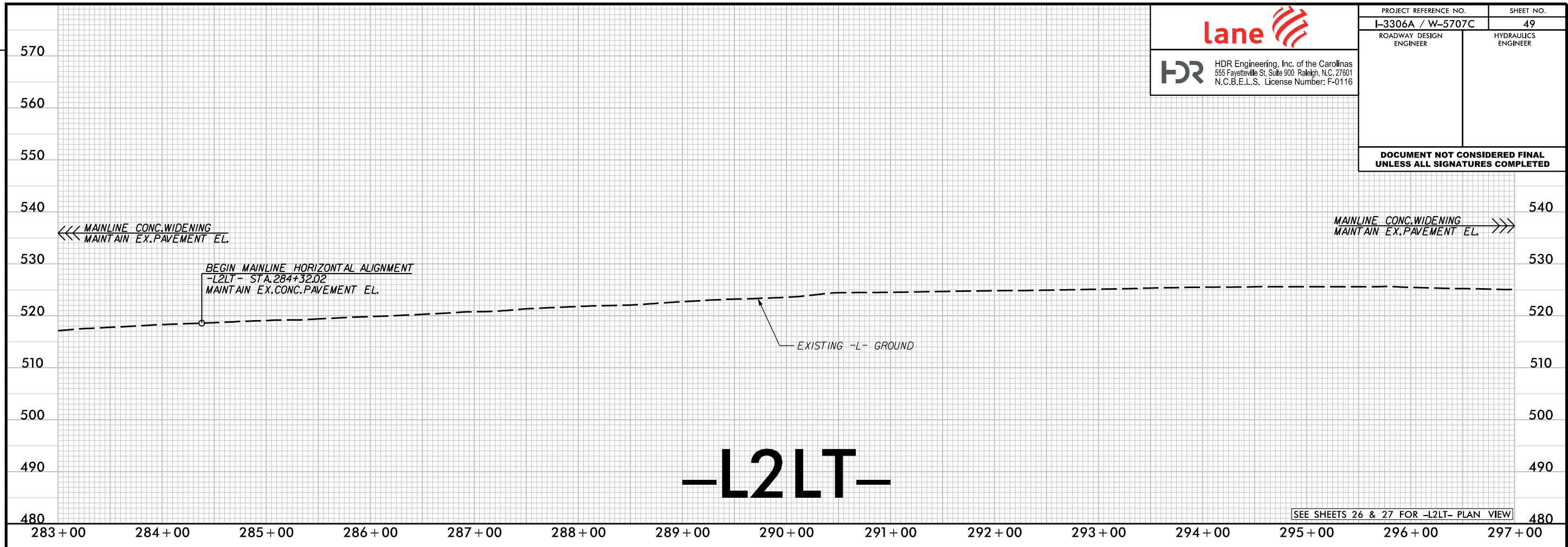


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PROJECT REFERENCE NO. I-3306A / W-5707C		SHEET NO. 47
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	

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UNLESS ALL SIGNATURES COMPLETED



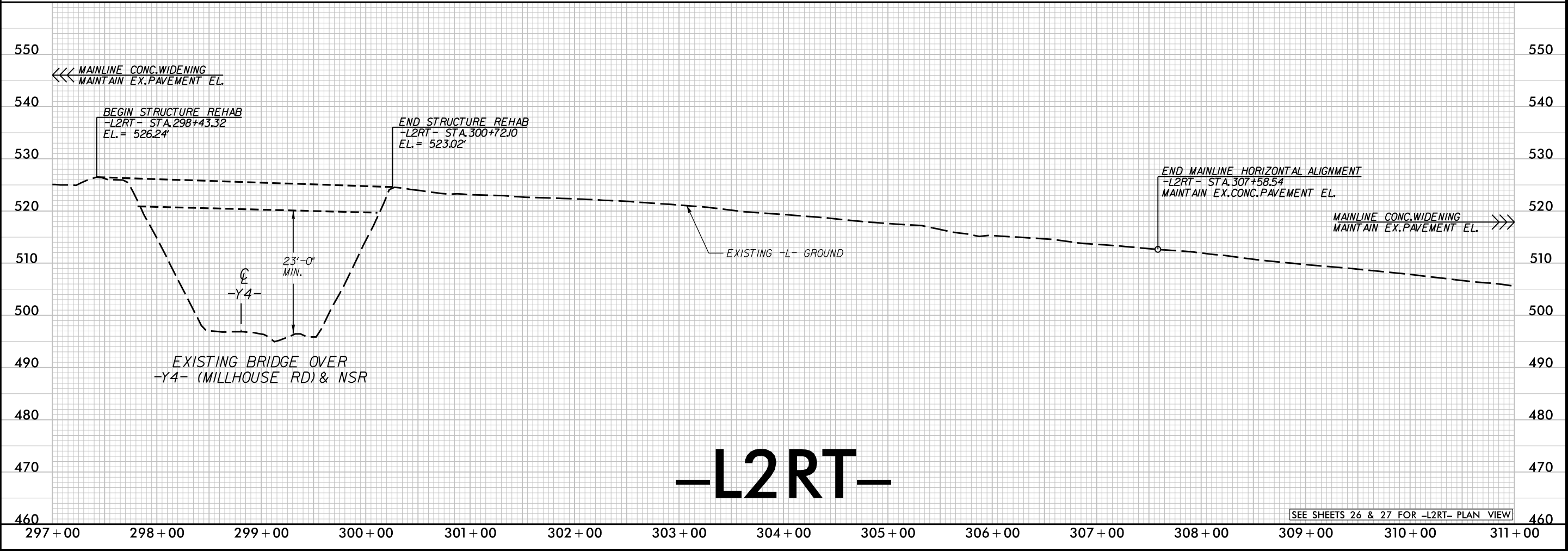
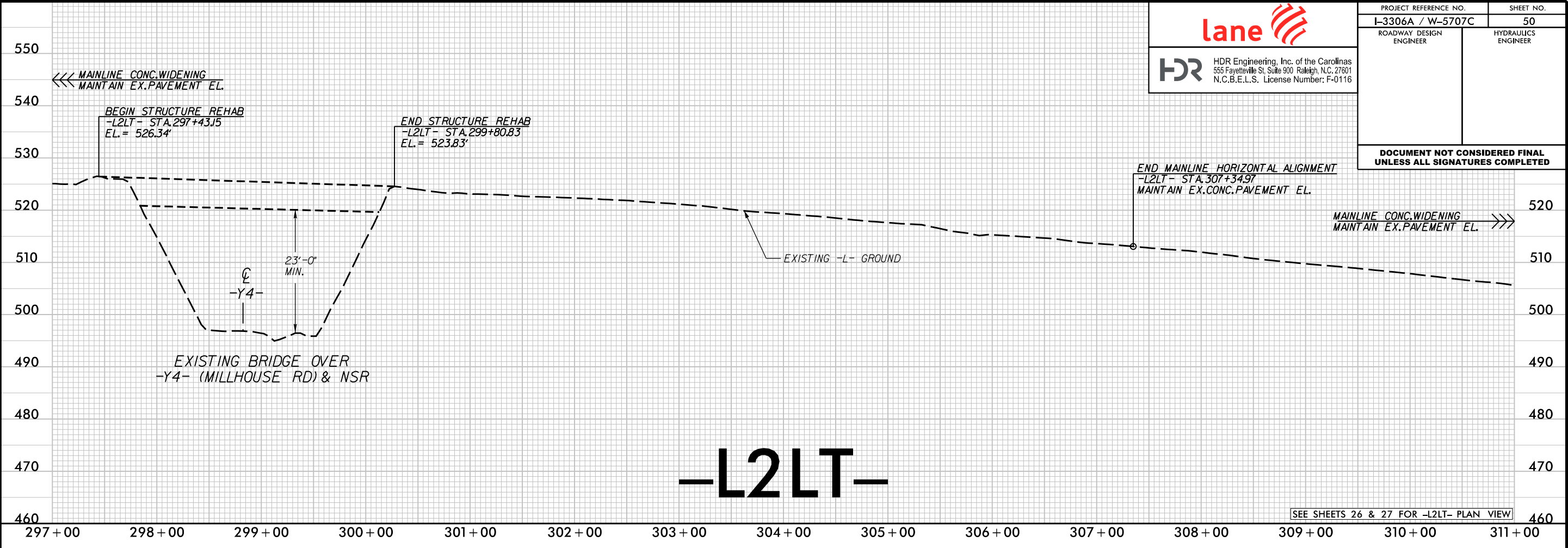


REVISIONS



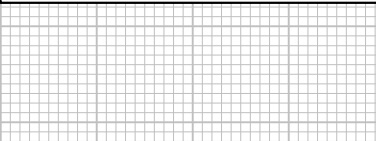
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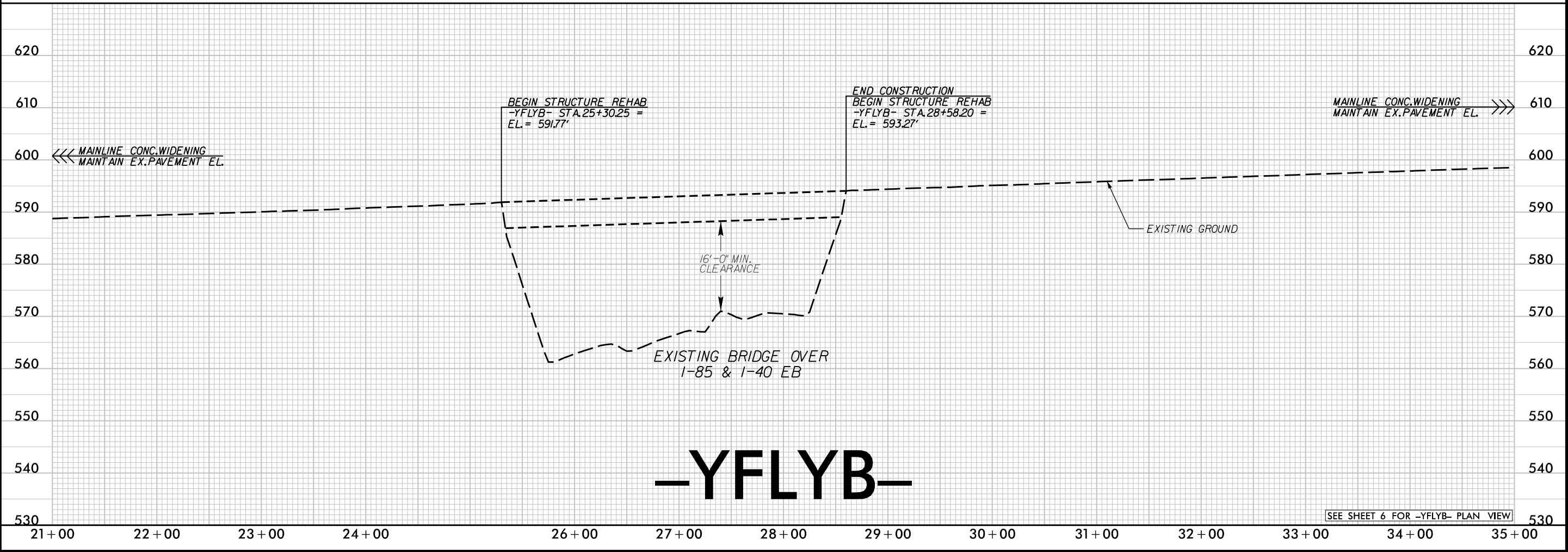
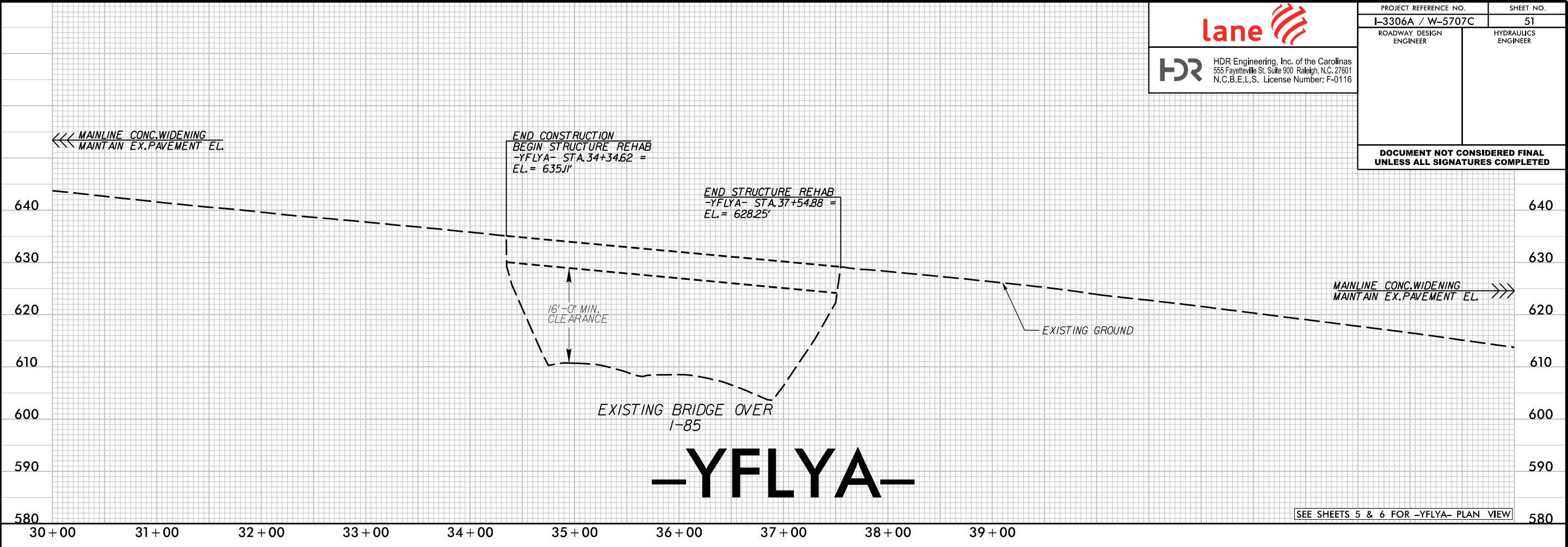
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		I-3306A / W-5707C		51	
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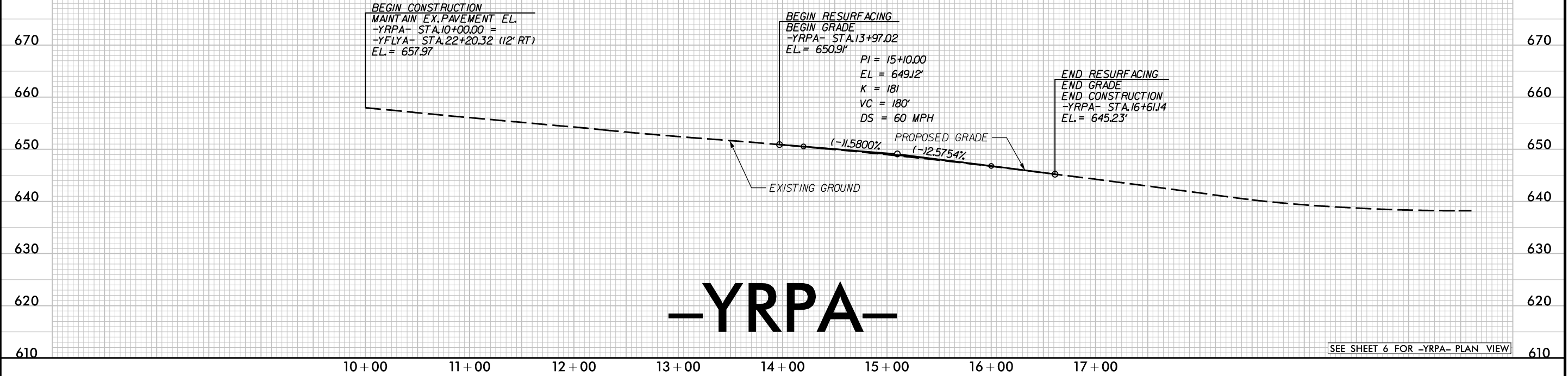
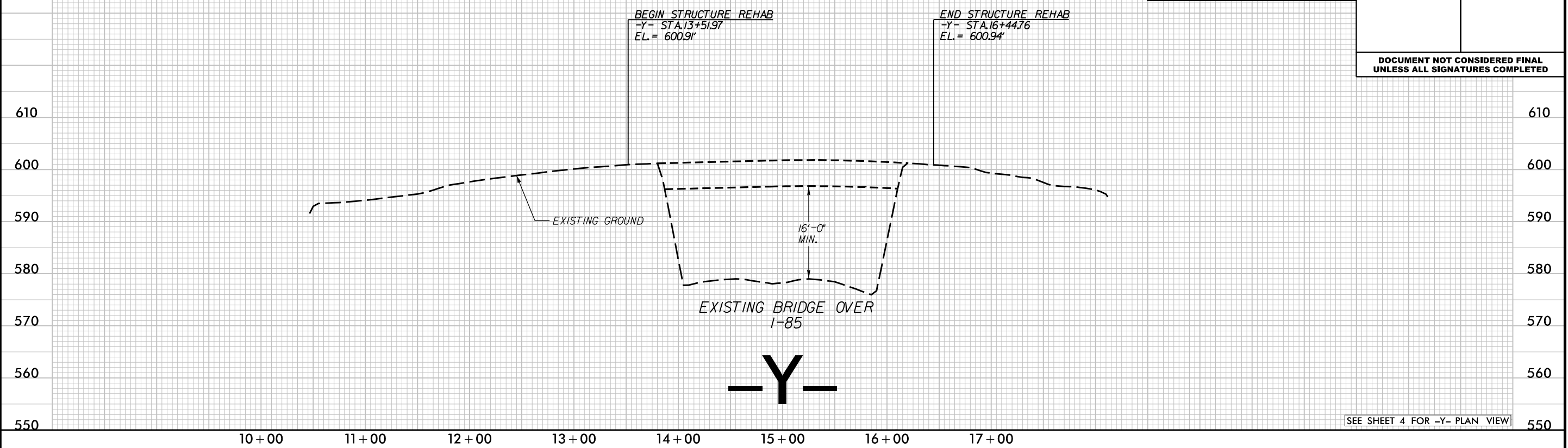
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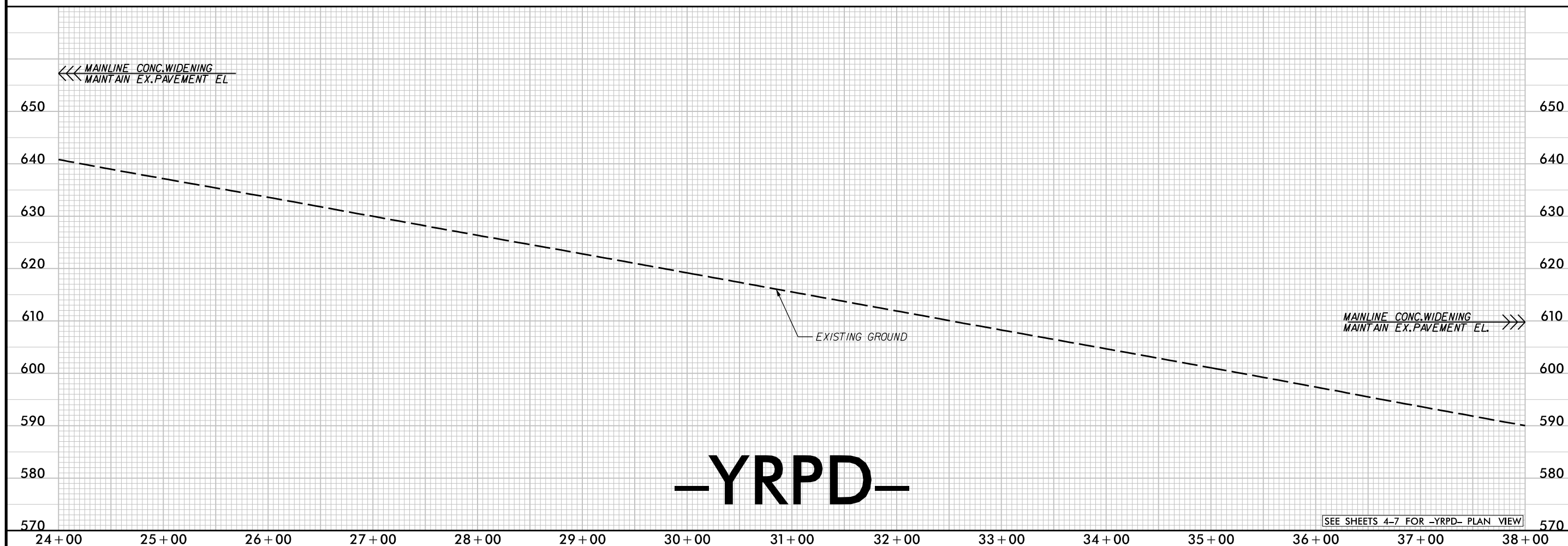
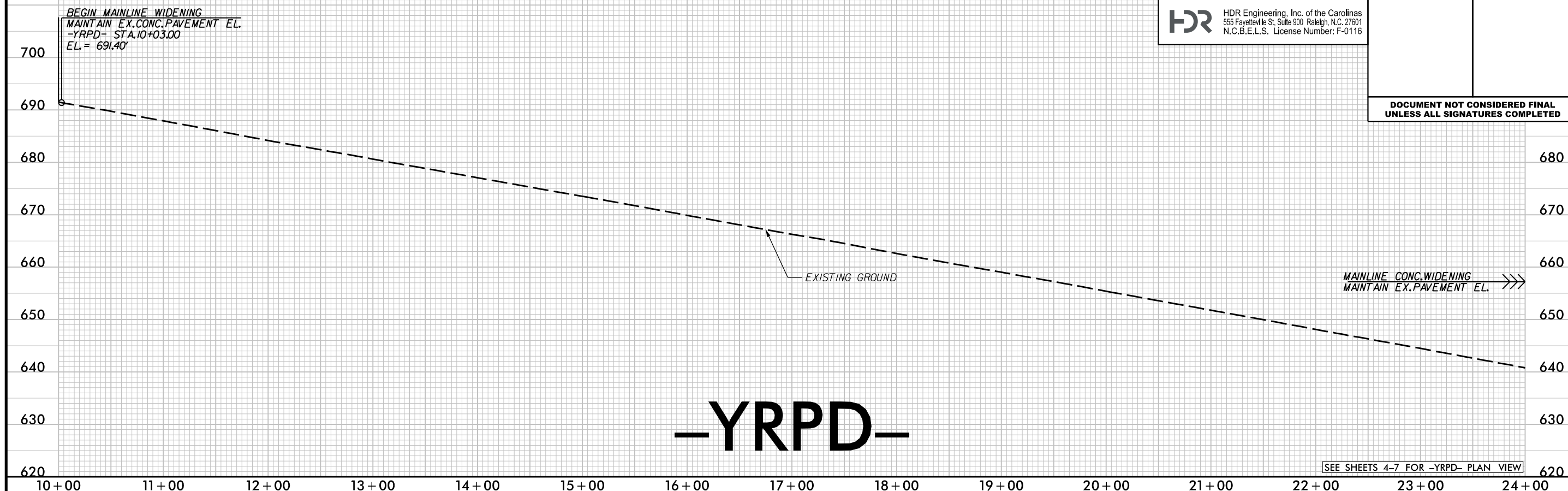
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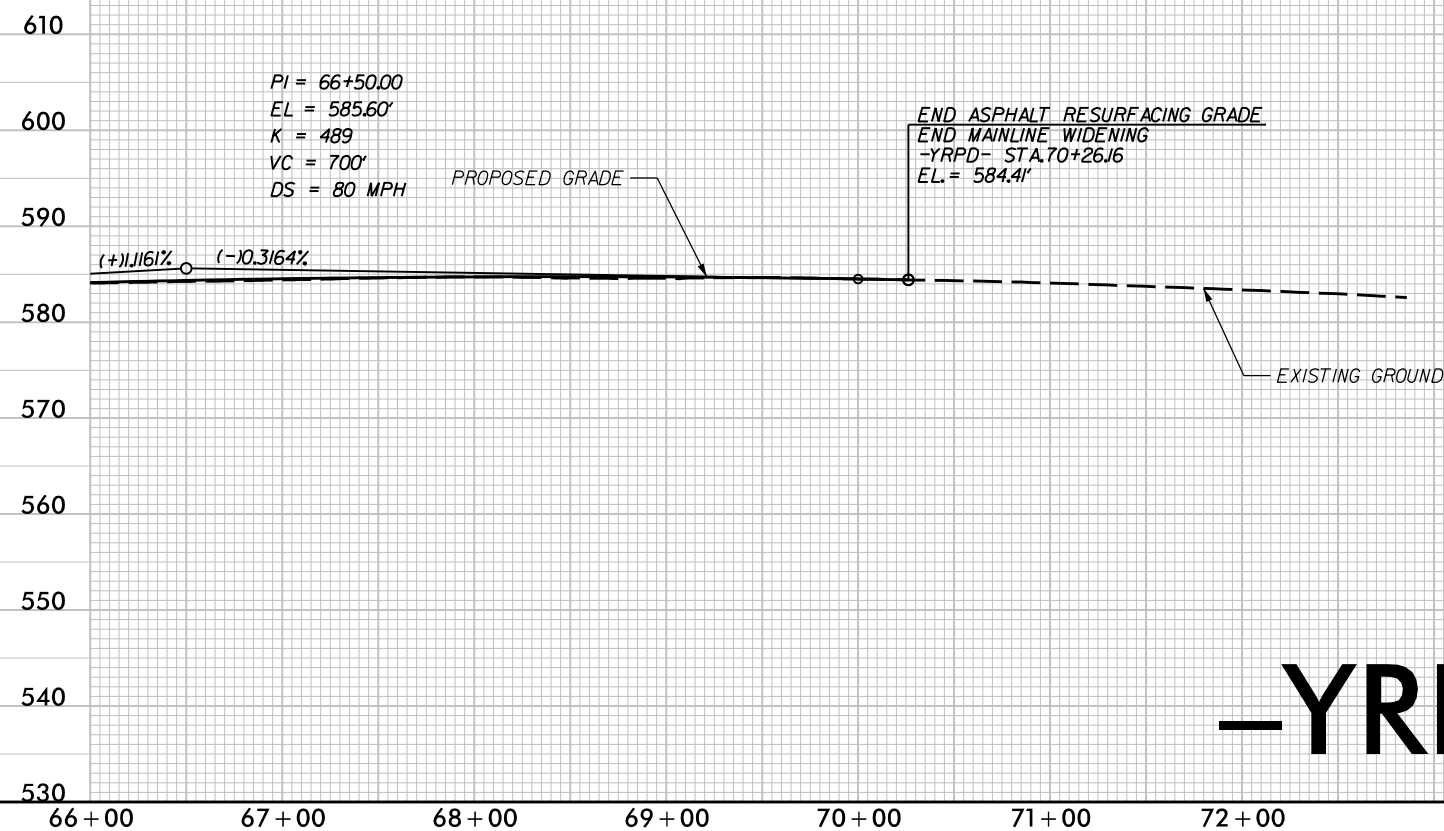
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DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		







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



SEE SHEETS 4-7 FOR -YRPD- PLAN VIEW

—YRPD—



SEE SHEET 7 FOR -Y1- PLAN VIEW

-Y1-

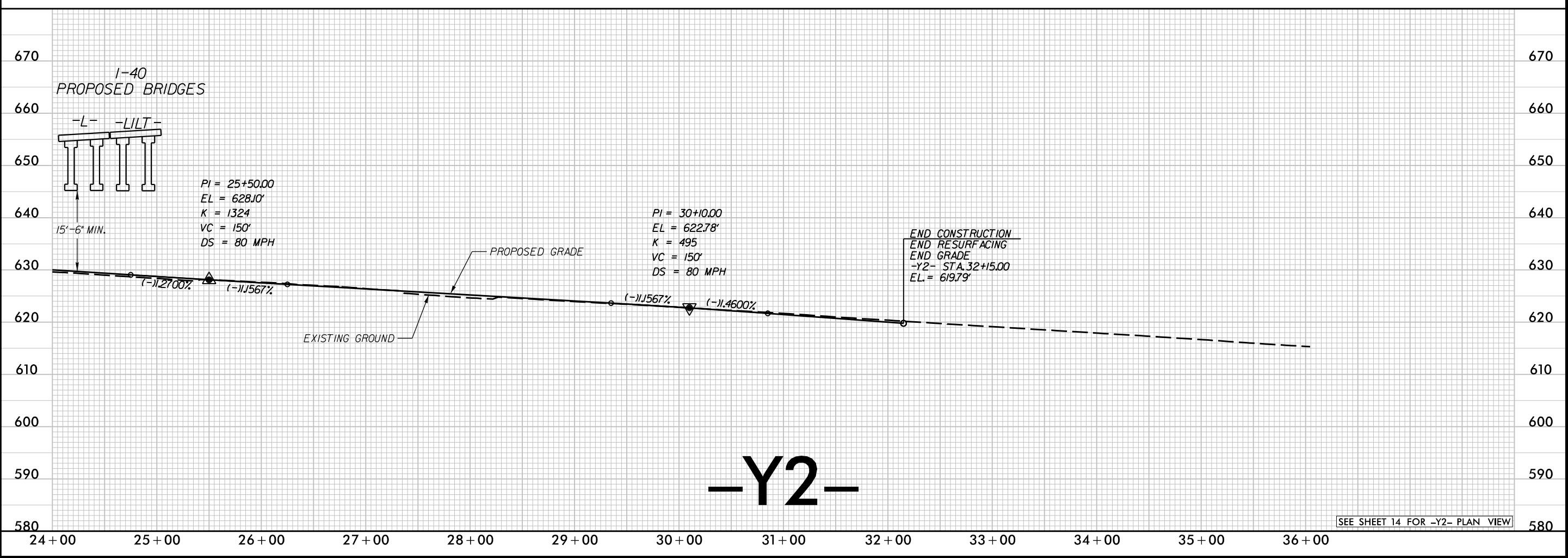
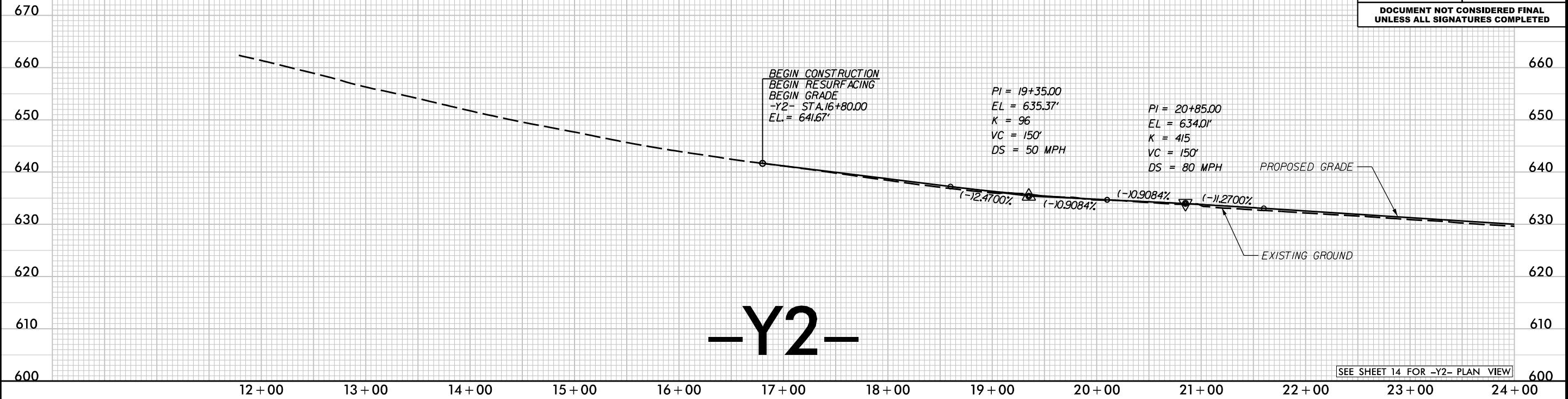
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PROJECT REFERENCE NO.		SHEET NO.
I-3306A / W-5707C		56
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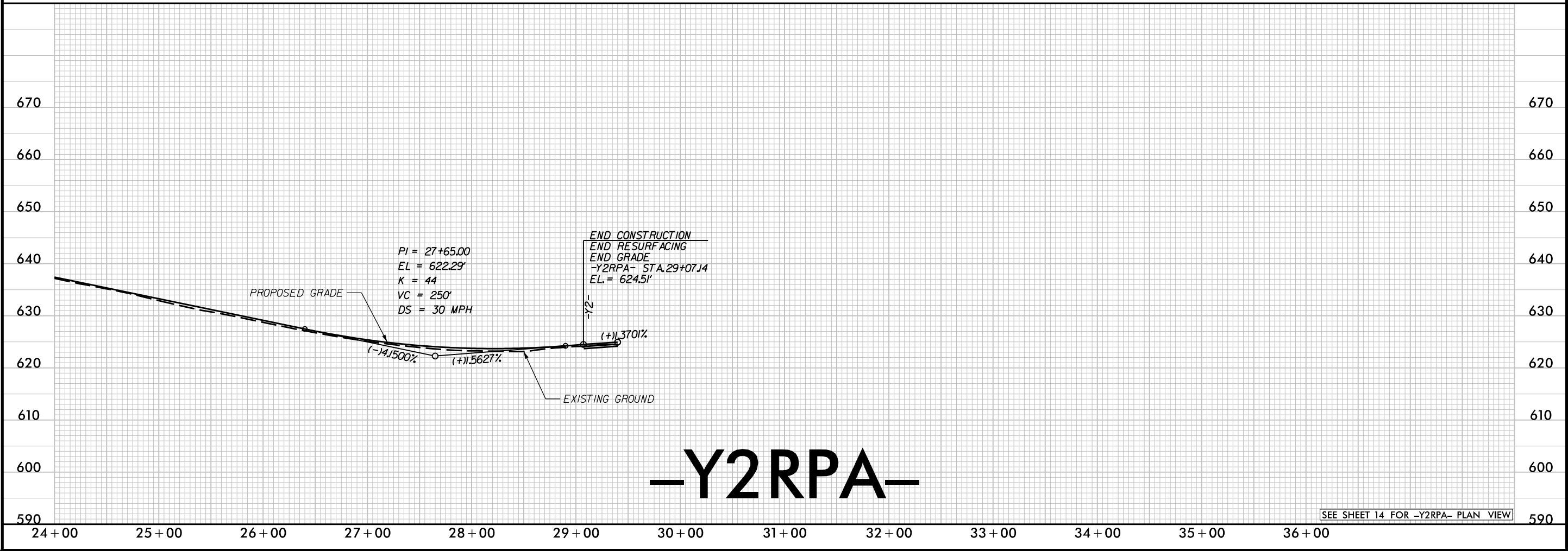
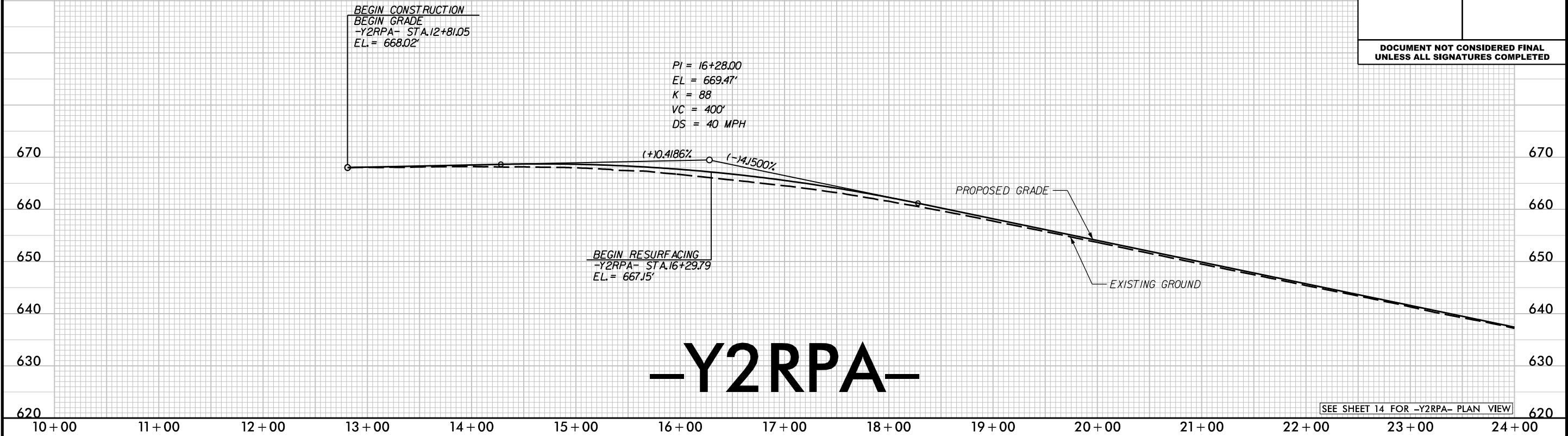
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REVISIONS

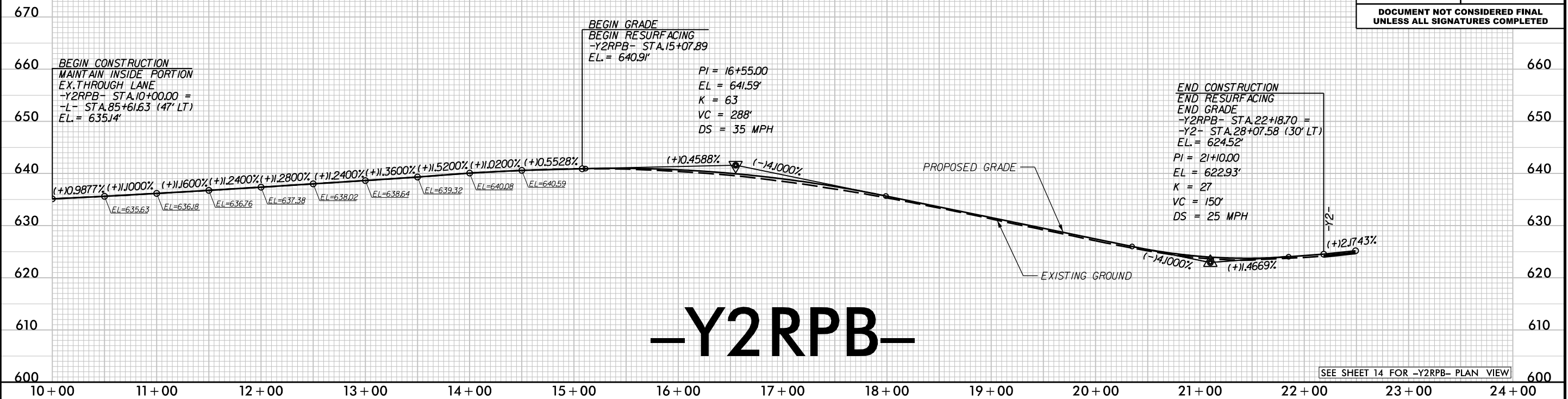


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PROJECT REFERENCE NO.		SHEET NO.
I-3306A / W-5707C		57
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	



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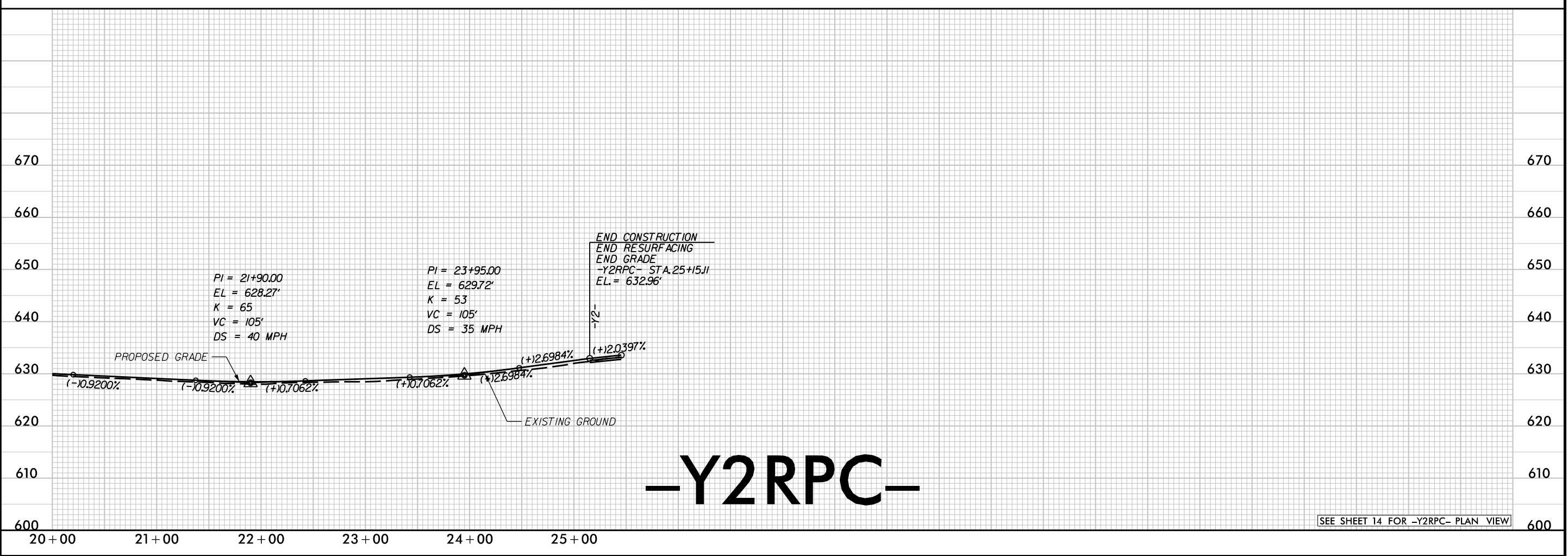
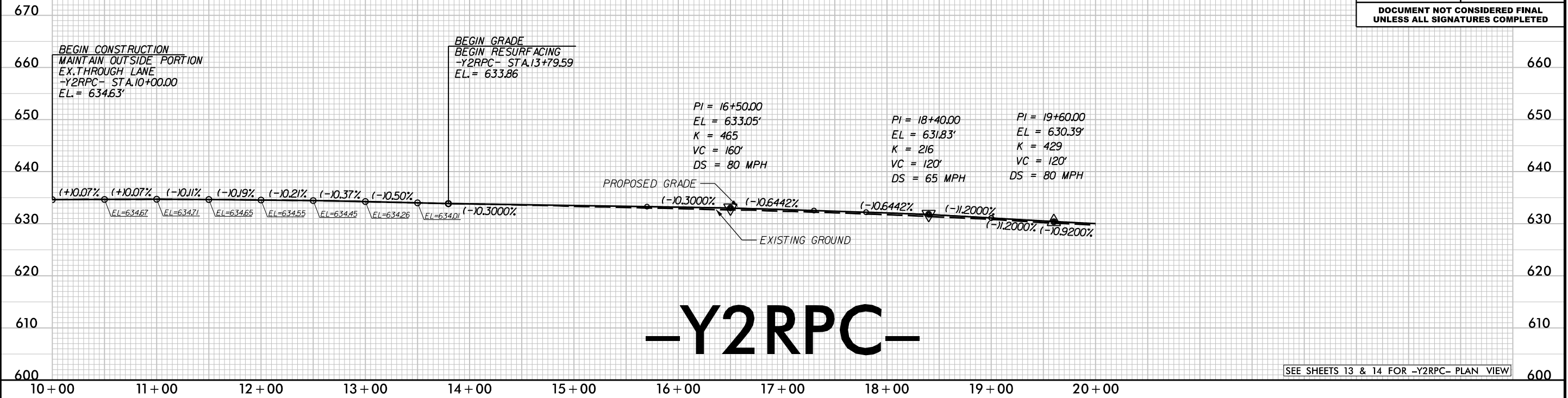


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PROJECT REFERENCE NO.	SHEET NO.
I-3306A / W-5707C	59
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



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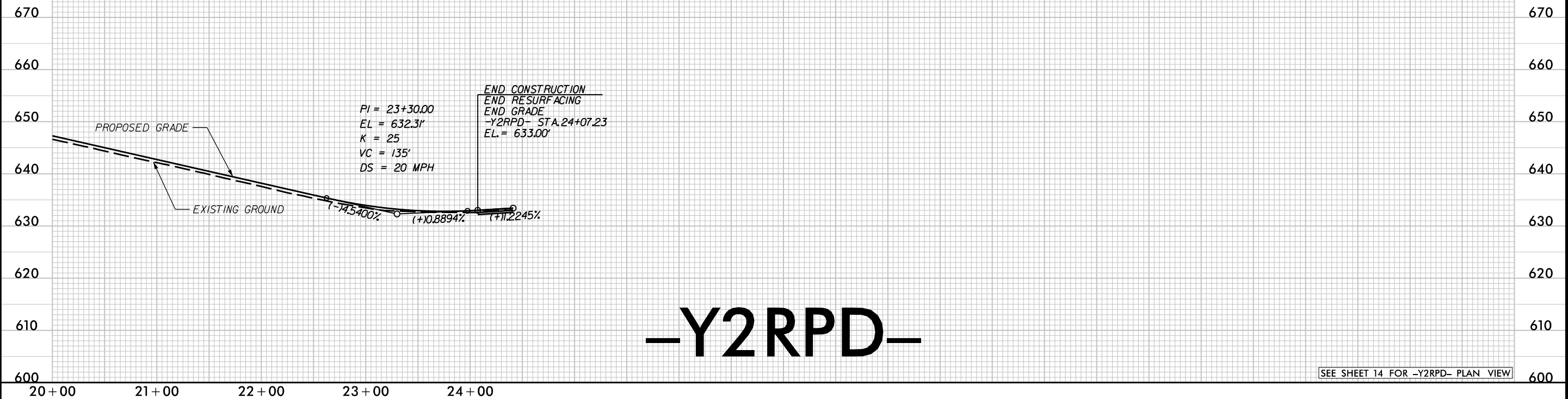
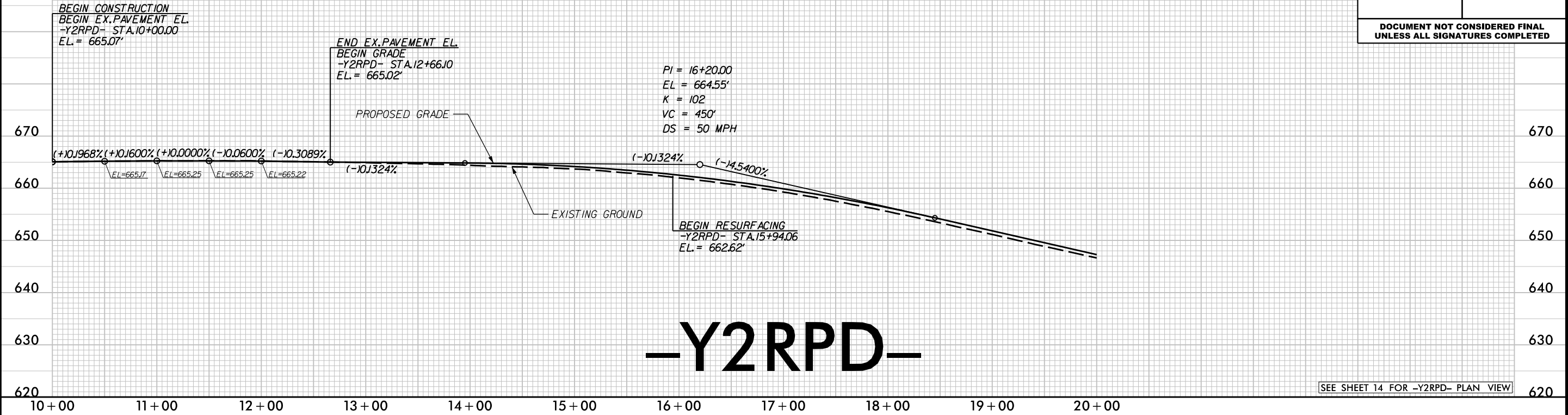
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PROJECT REFERENCE NO.		SHEET NO.
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ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
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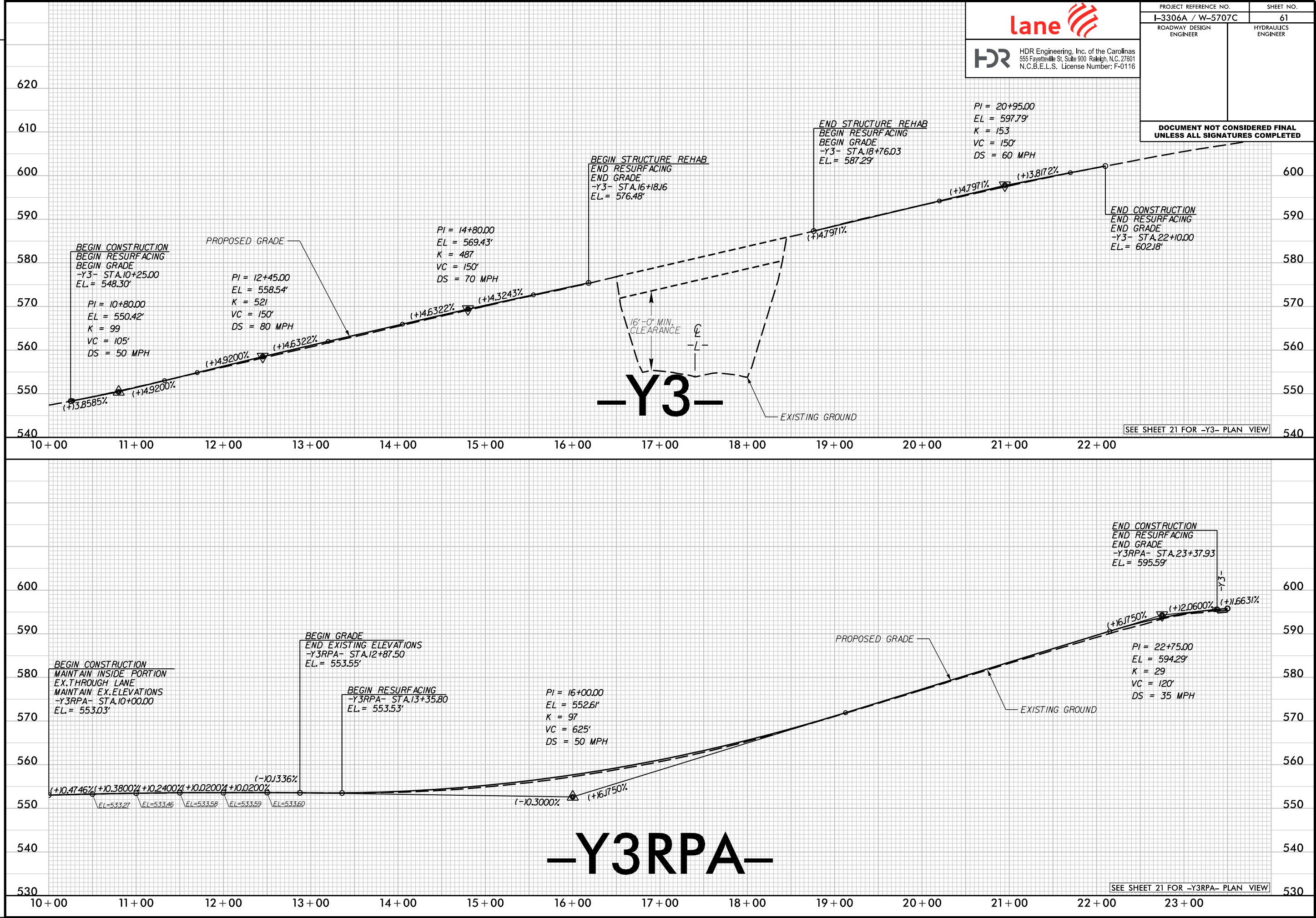
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PROJECT REFERENCE NO.		SHEET NO.
I-3306A / W-5707C		61
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
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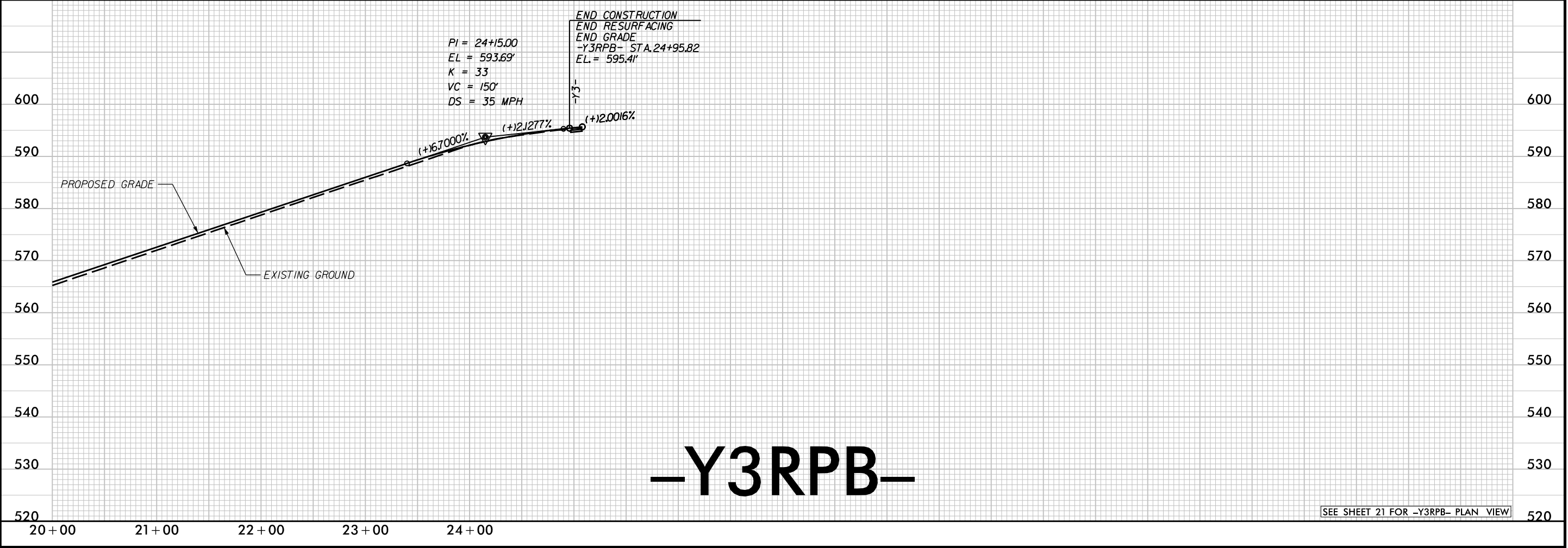
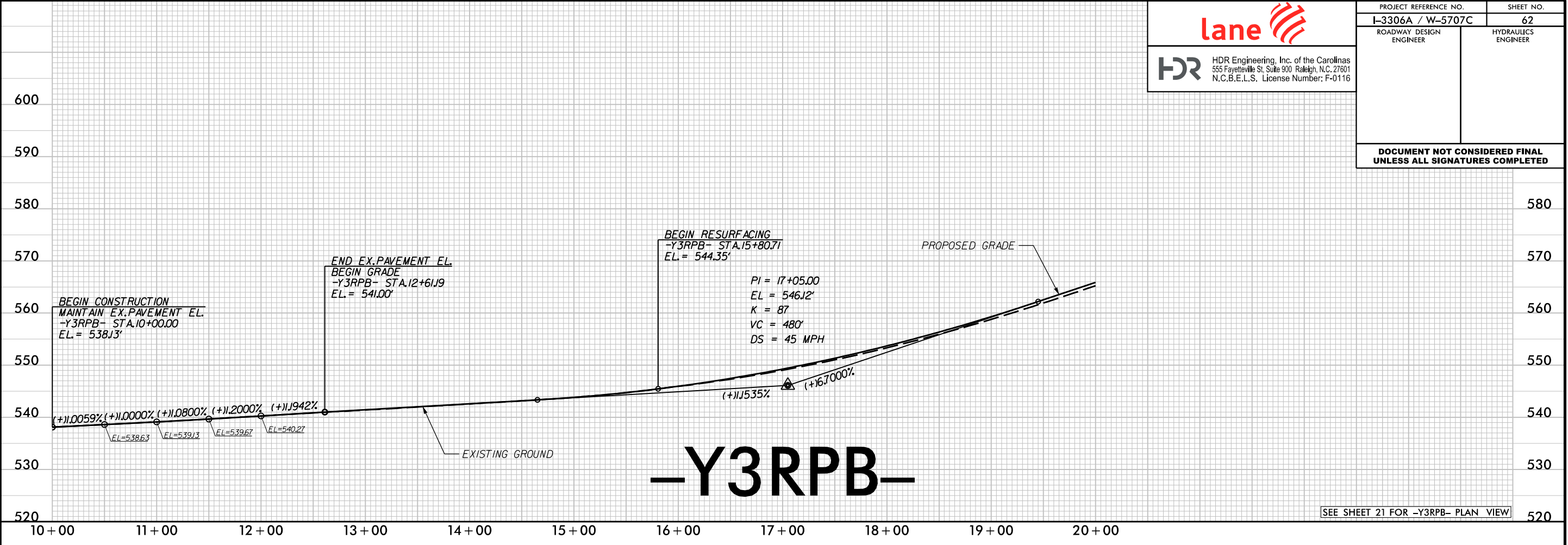


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PROJECT REFERENCE NO.		SHEET NO.
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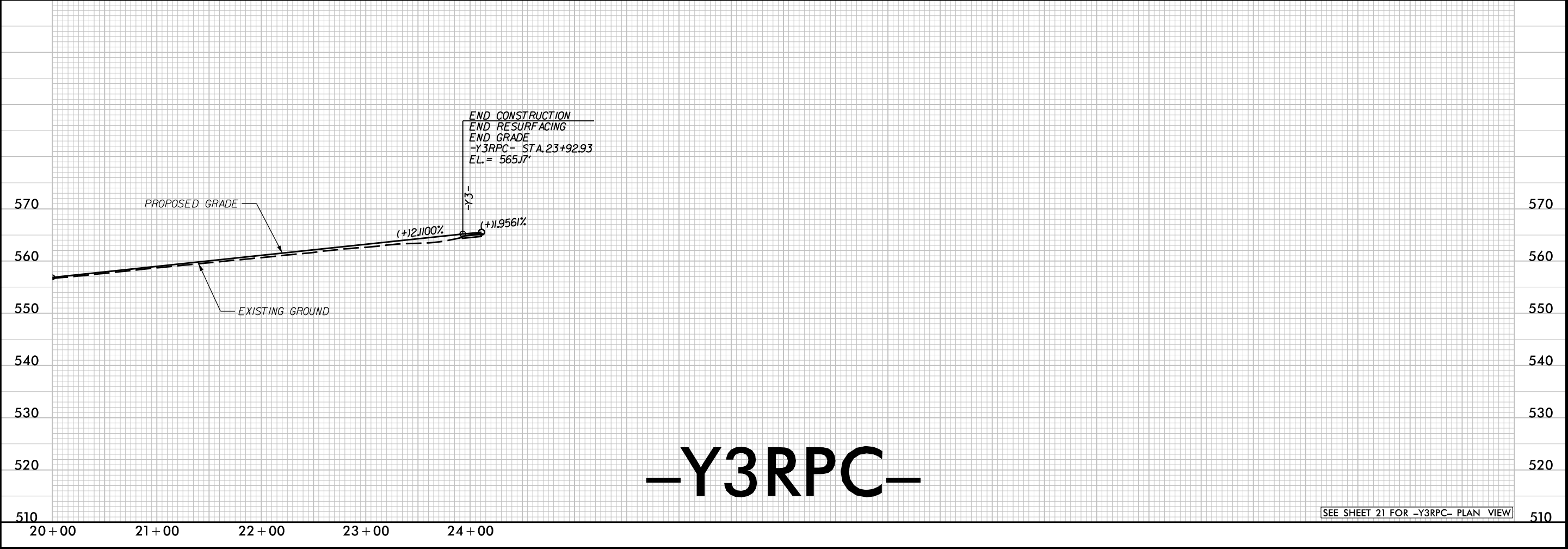
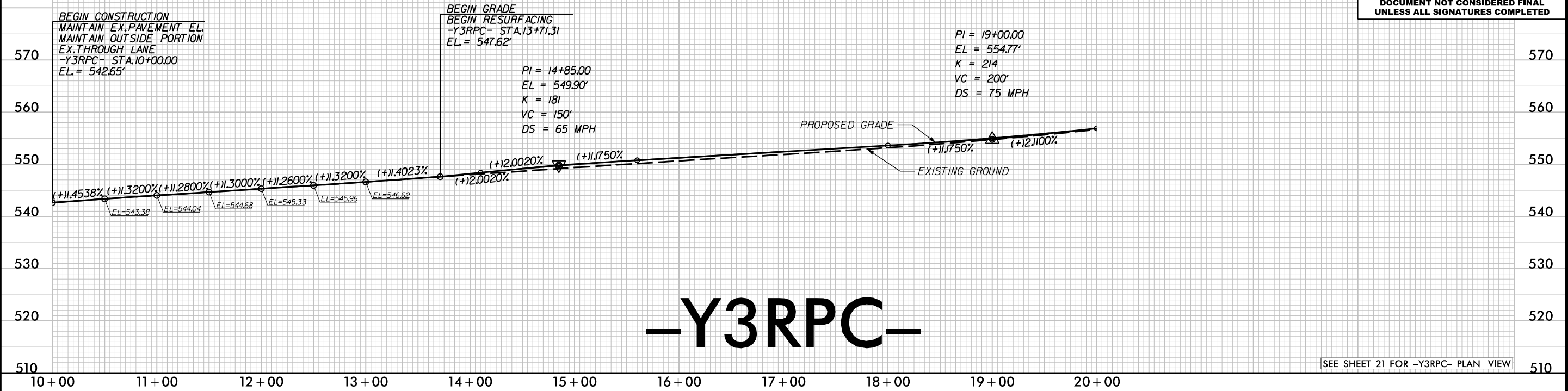


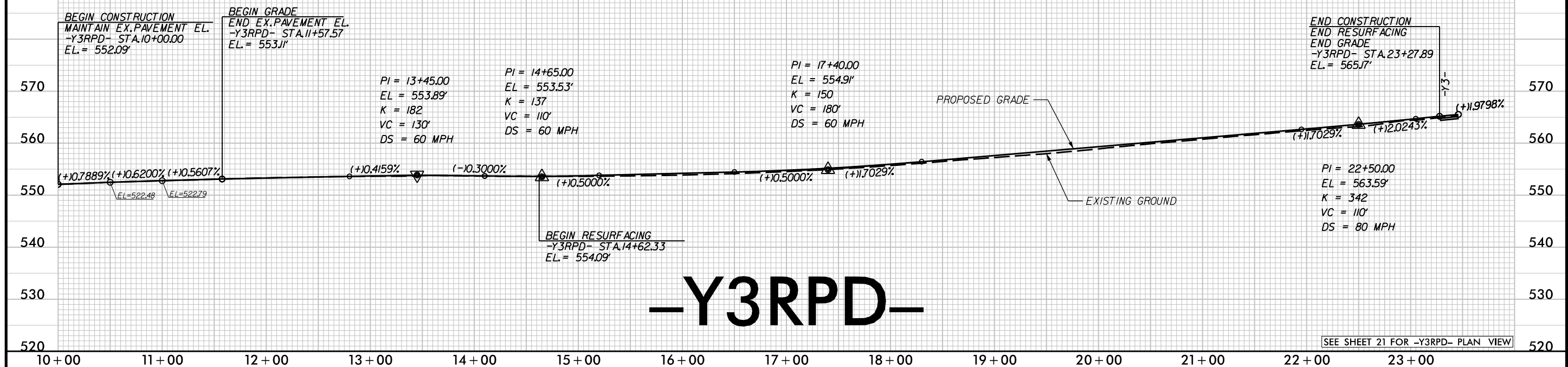
HDR Engineering, Inc. of the Carolinas

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

PROJECT REFERENCE NO.		SHEET NO.
I-3306A / W-5707C		63
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		





—Y3RPD—

SEE SHEET 21 FOR -Y3RPD- PLAN VIEW

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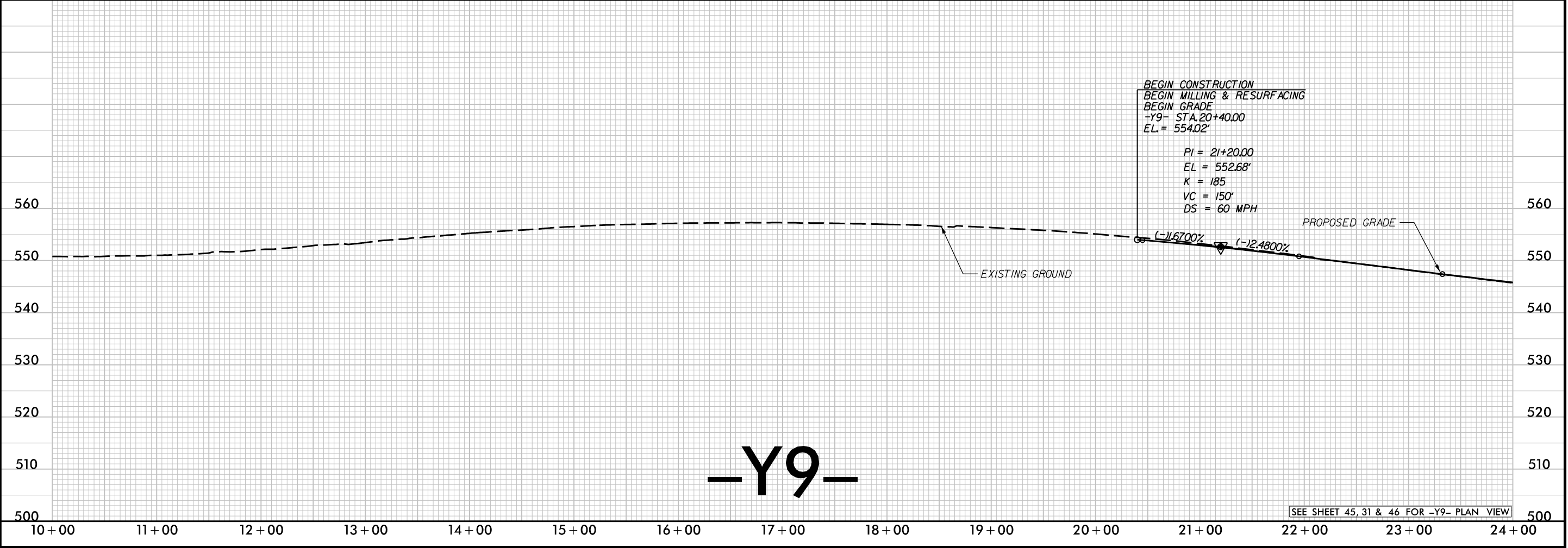
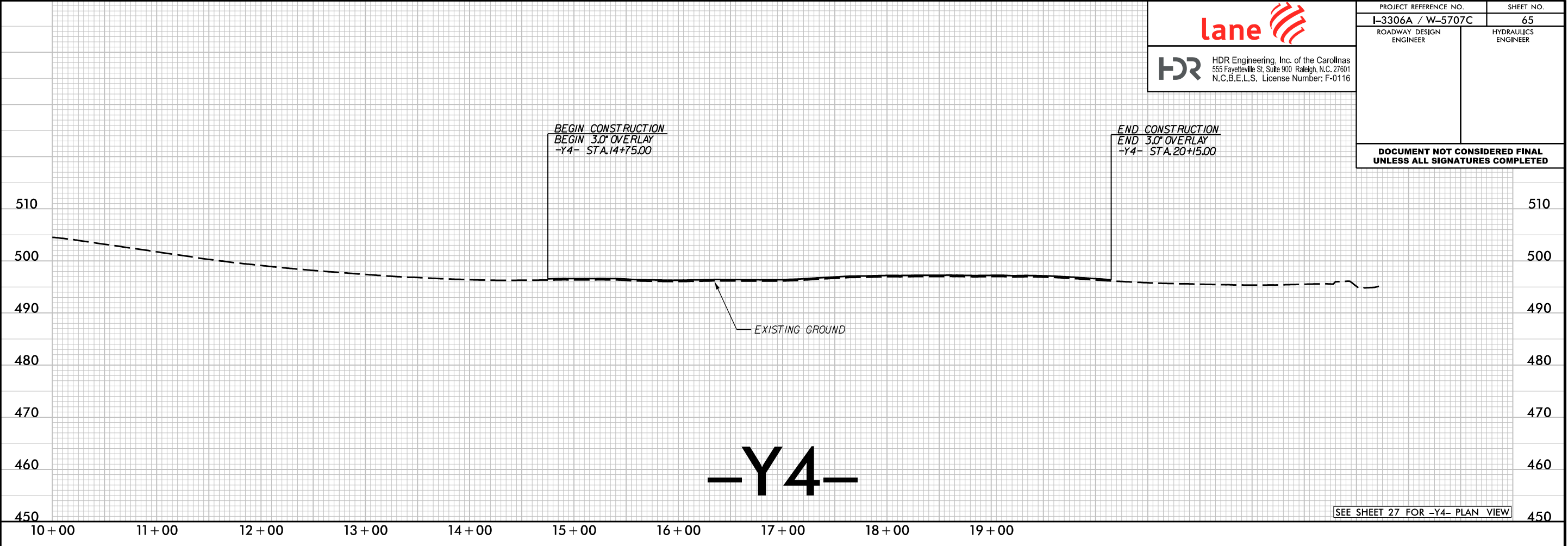


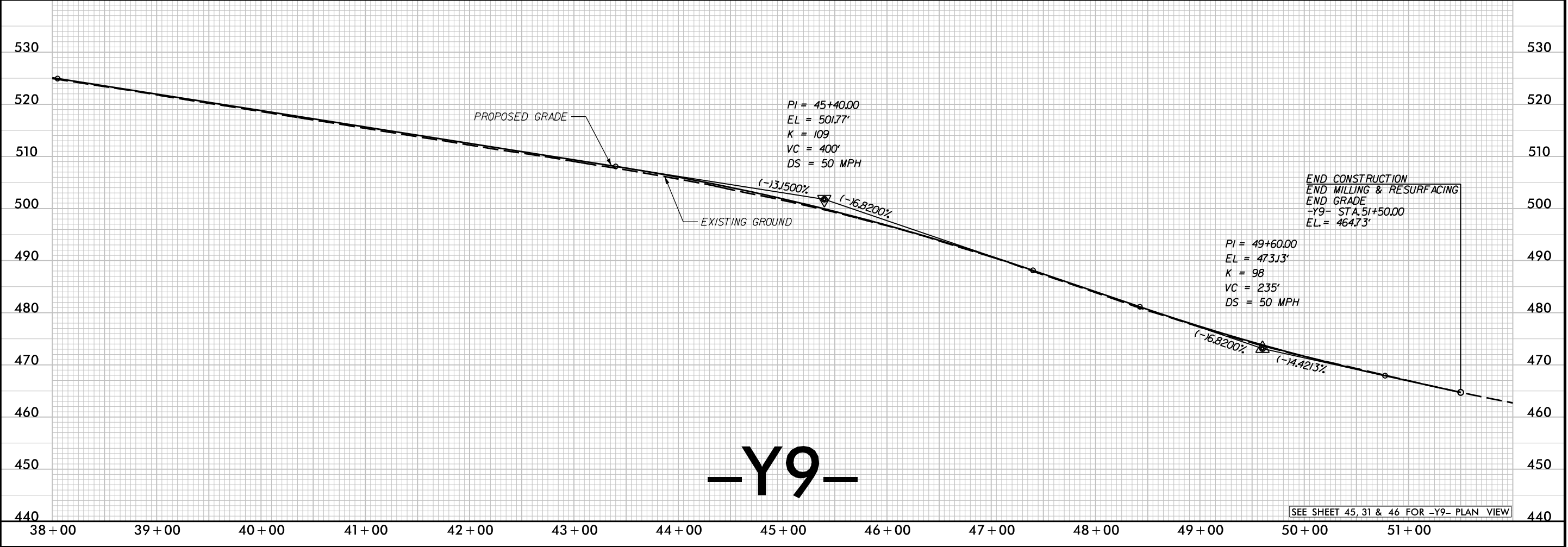
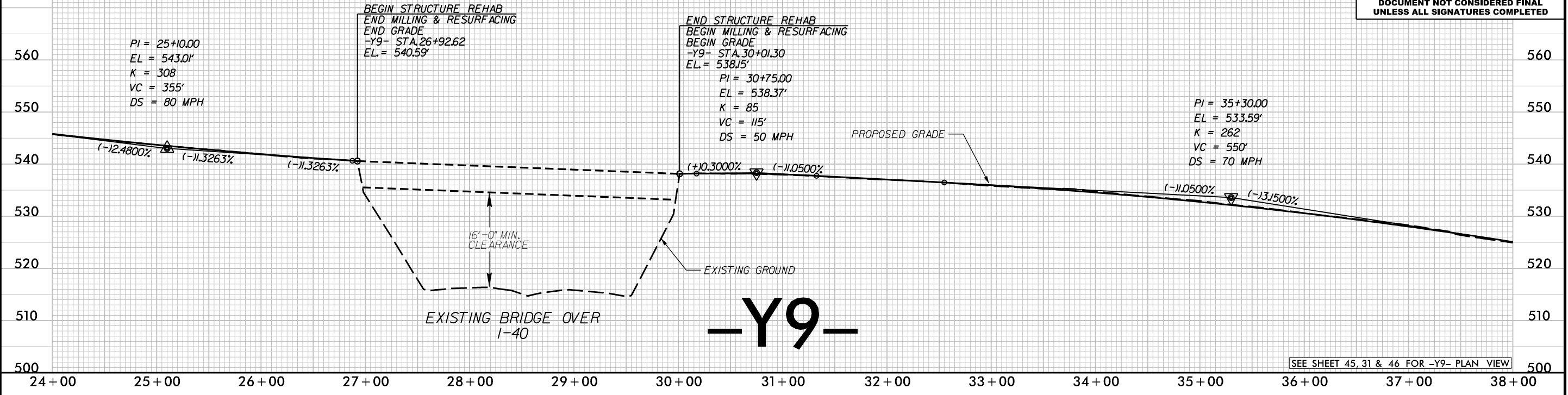
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N.C.B.E.L.S. License Number: F-0116

PROJECT REFERENCE NO.		SHEET NO.
I-3306A / W-5707C		65
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DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		





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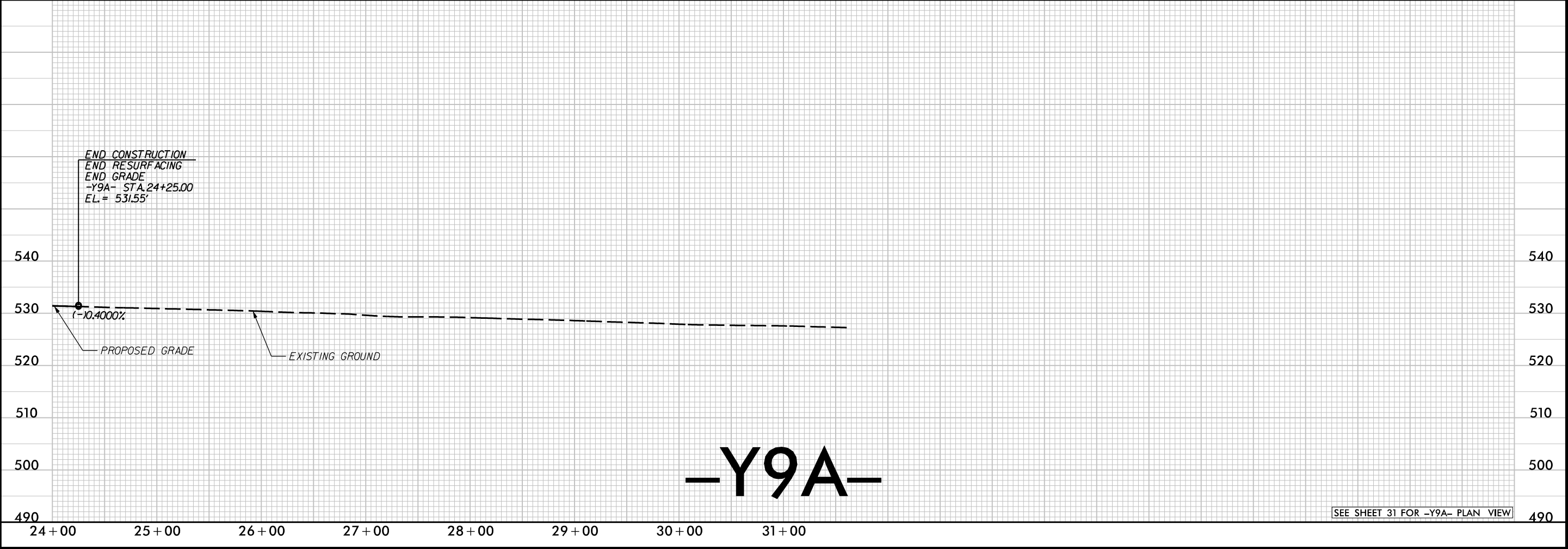
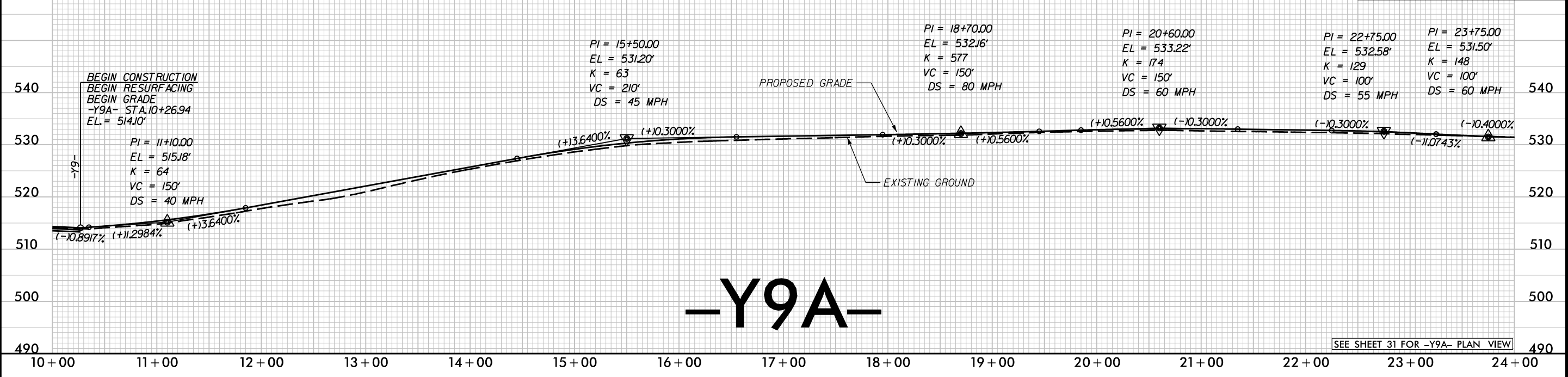
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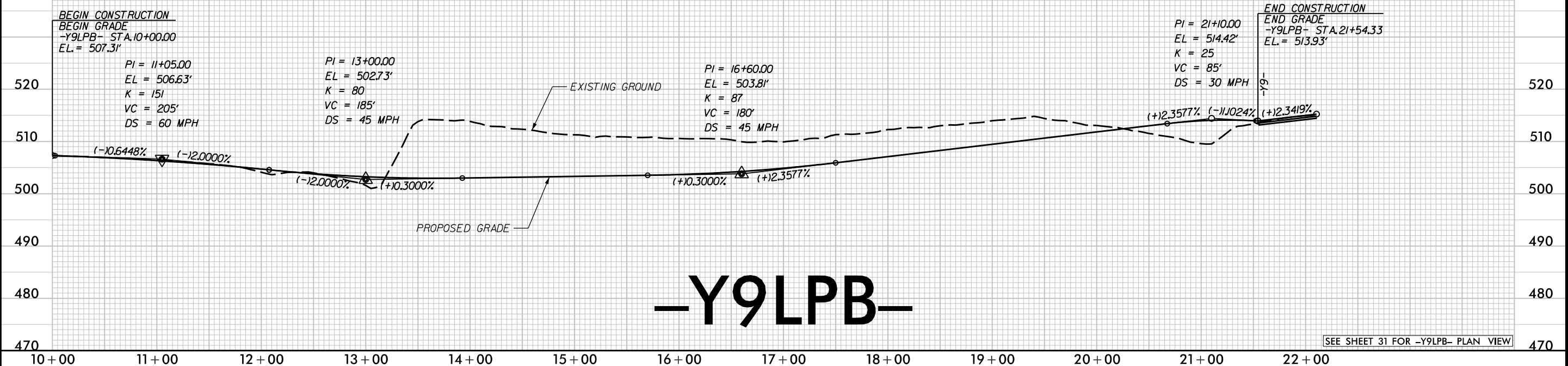
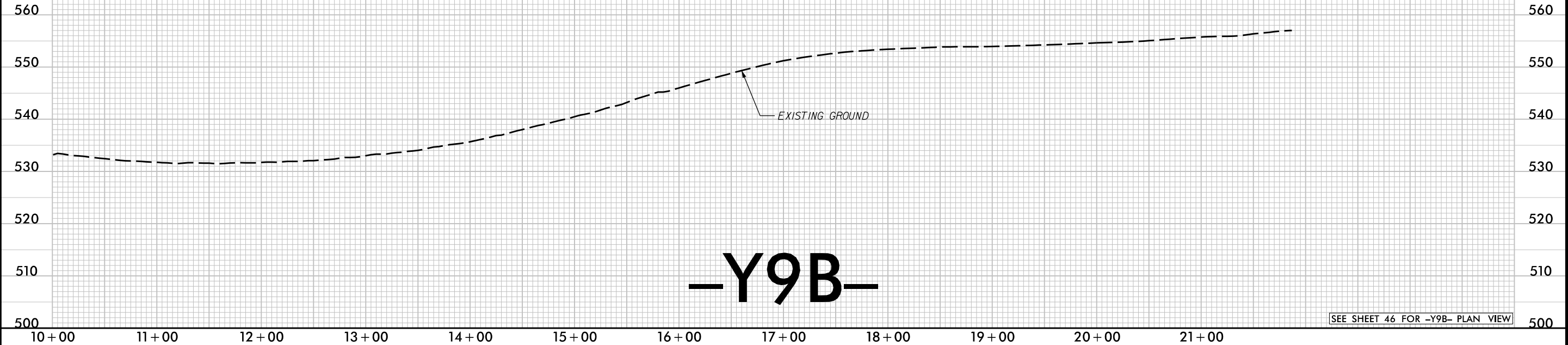
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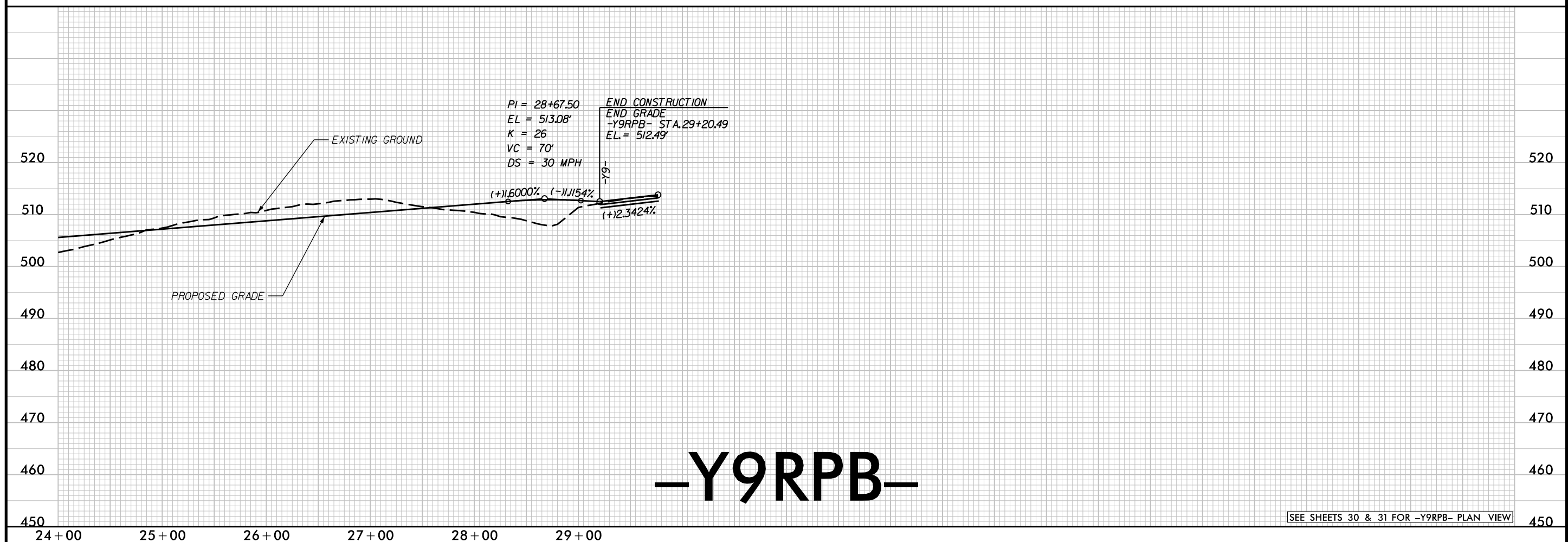
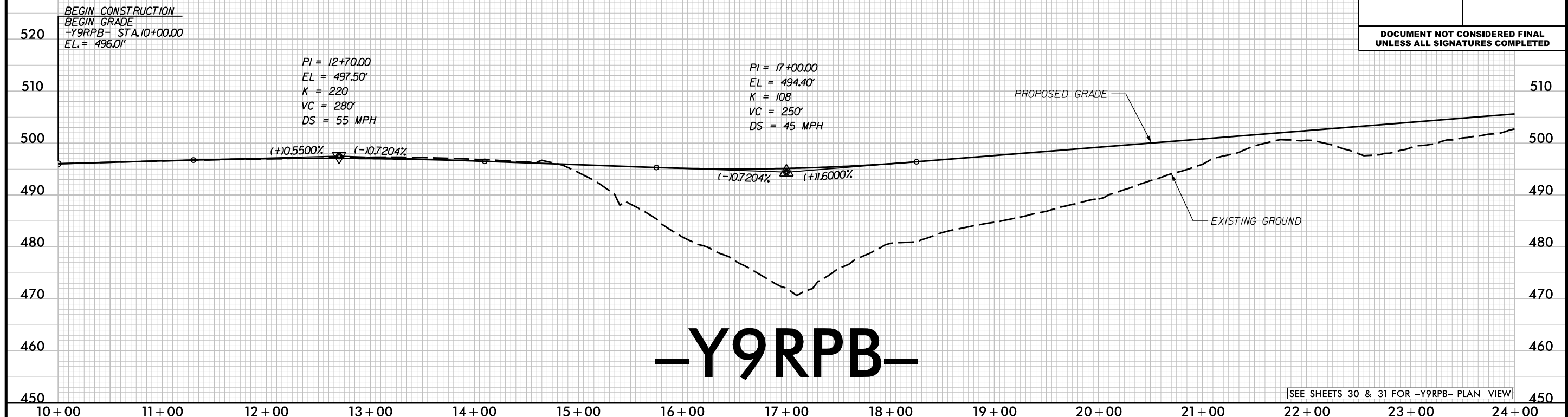
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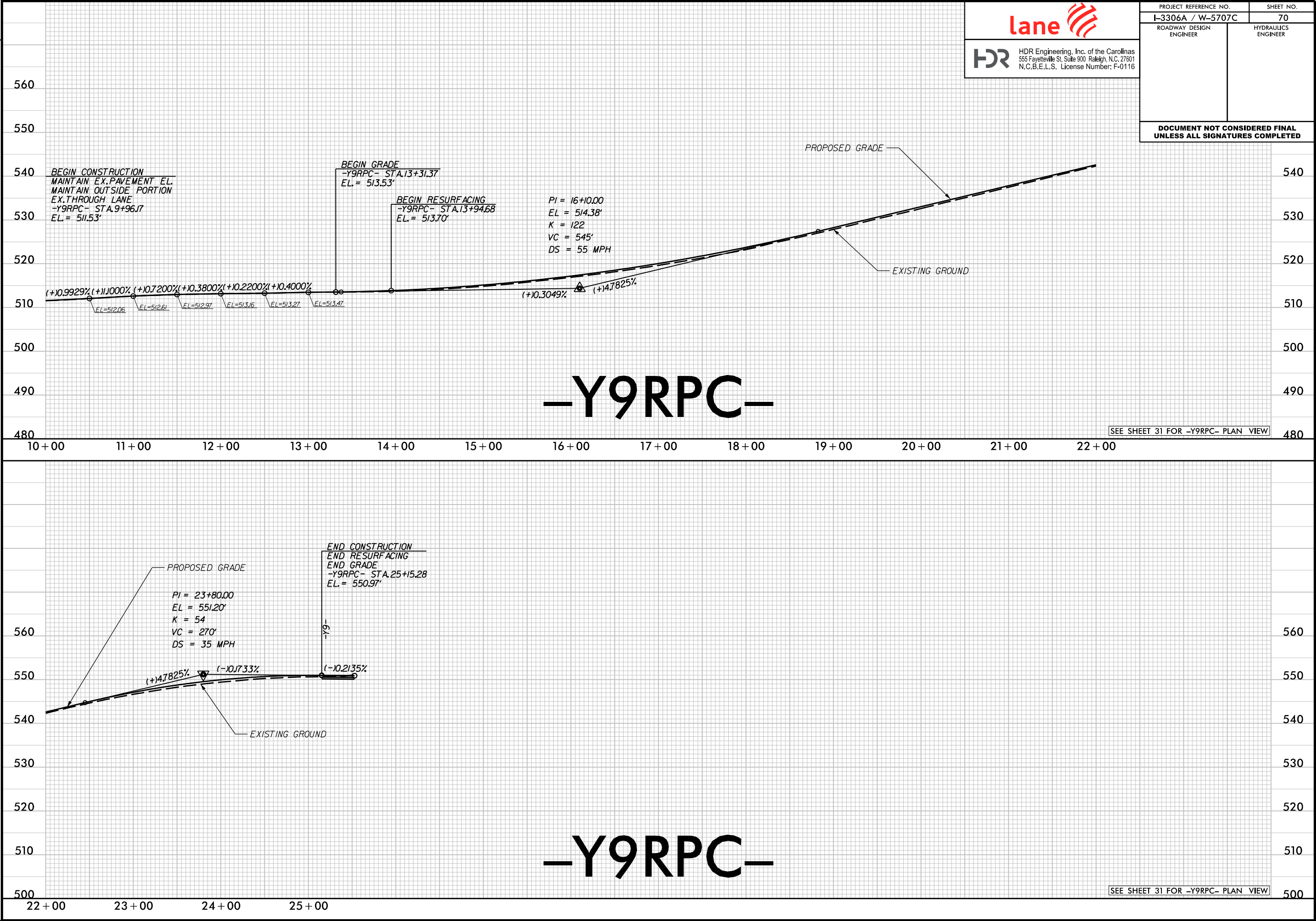
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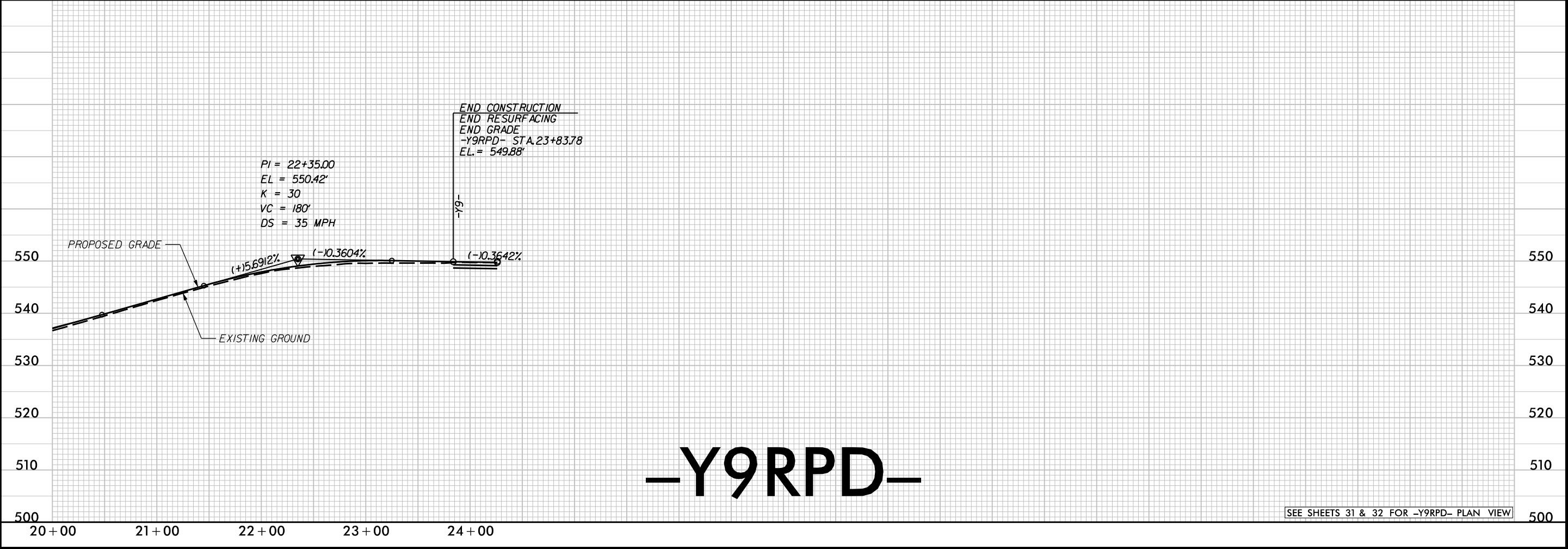
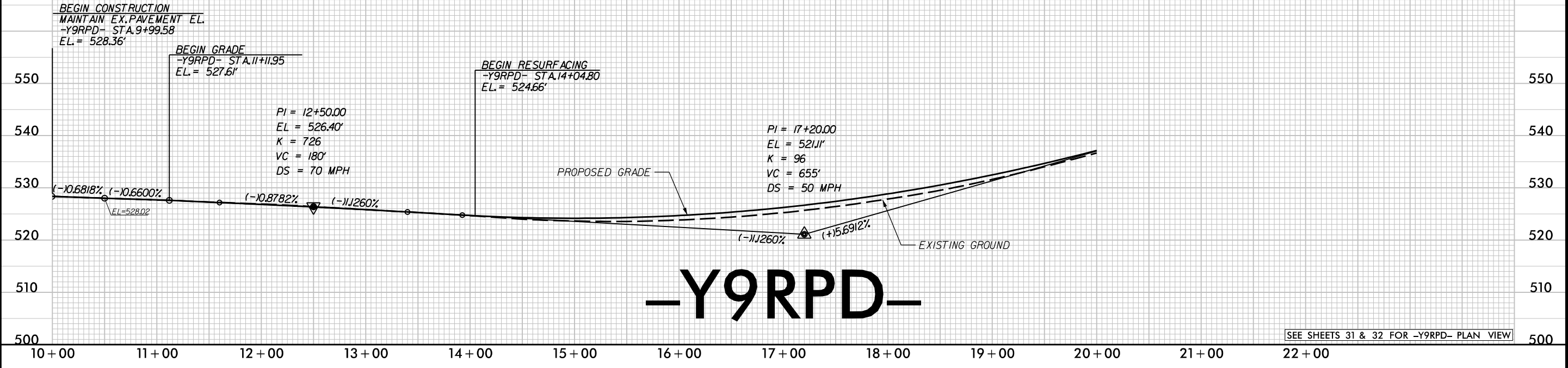
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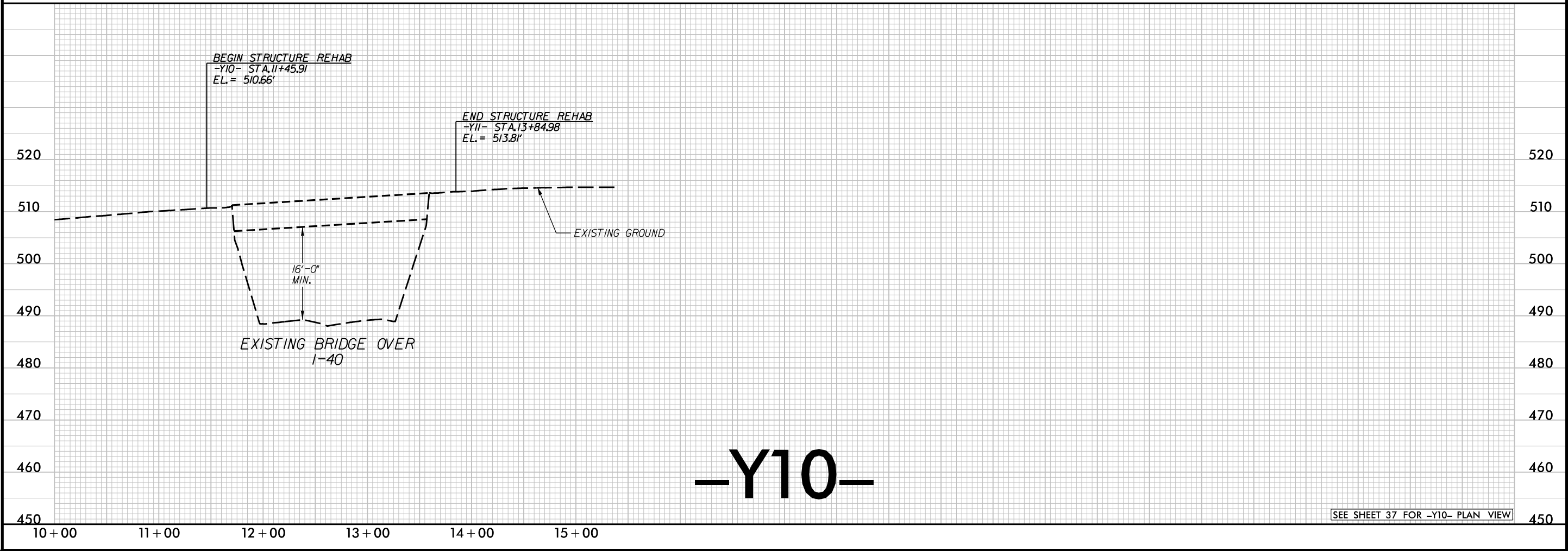
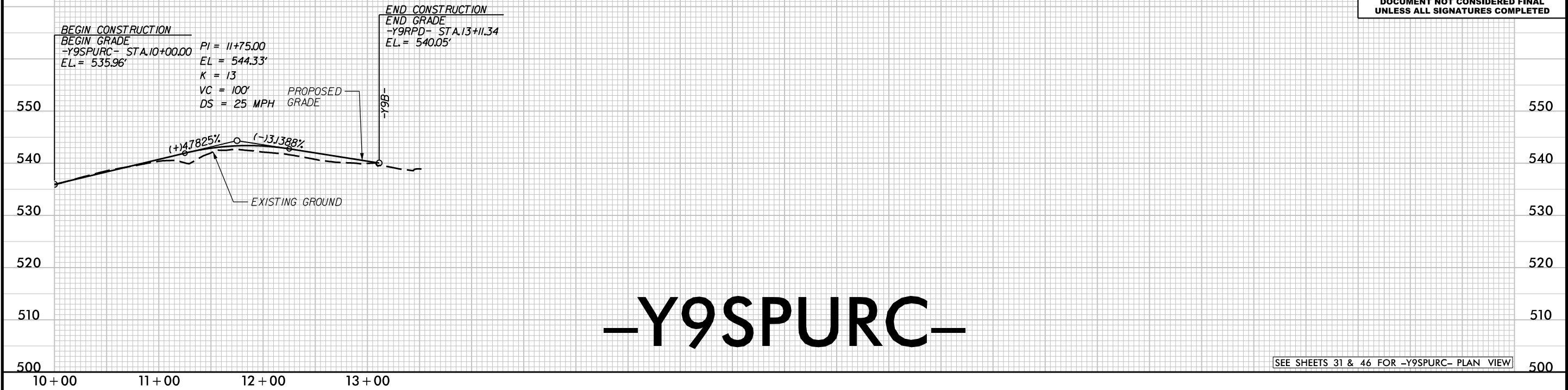
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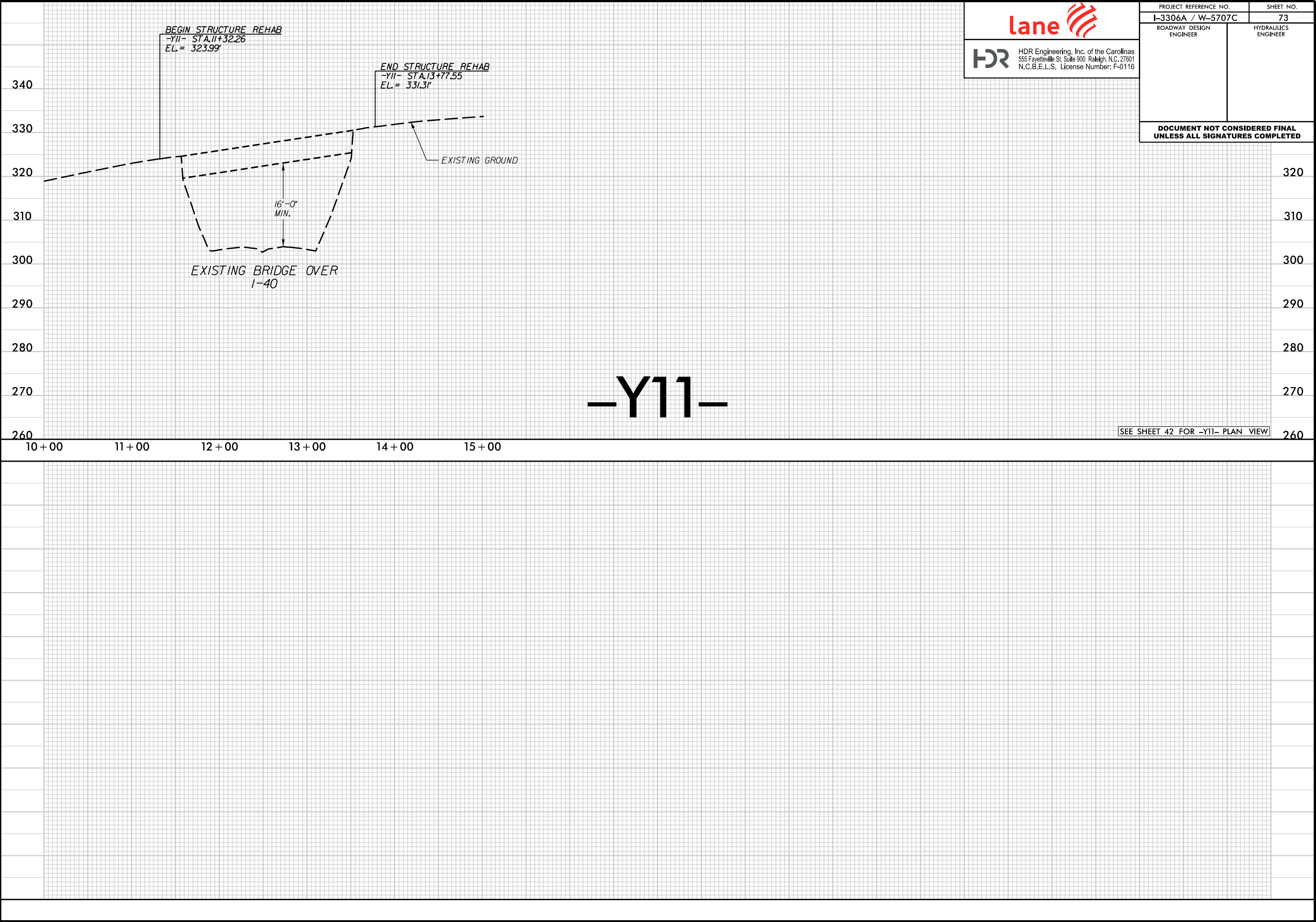
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