

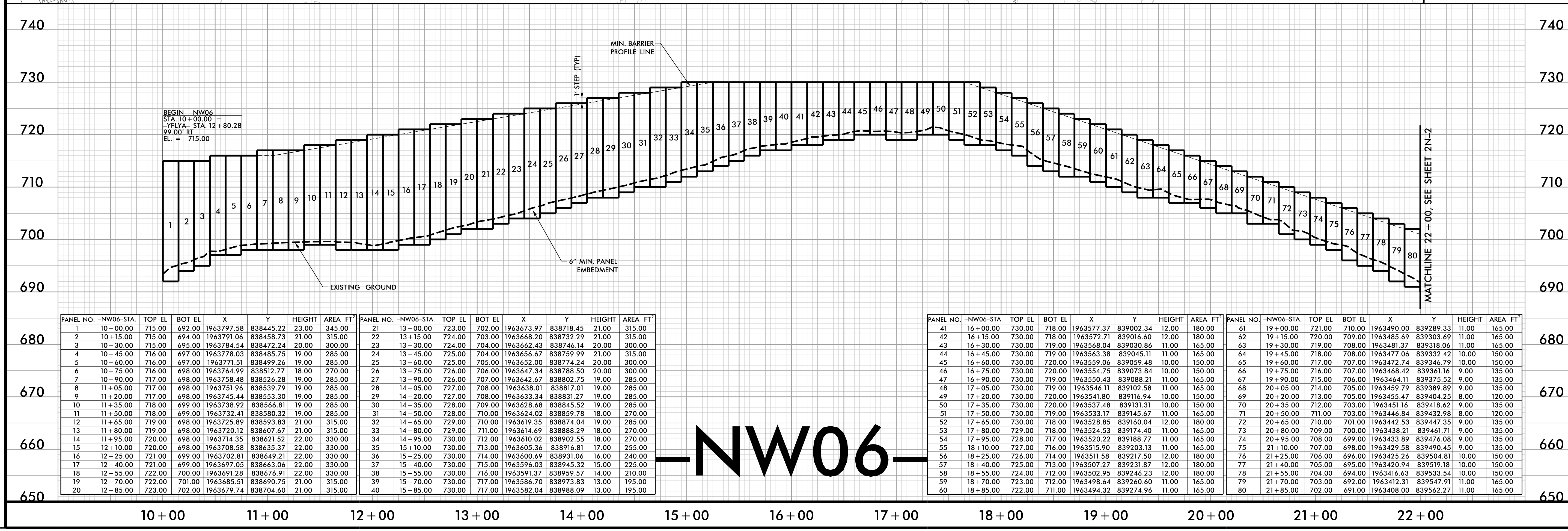
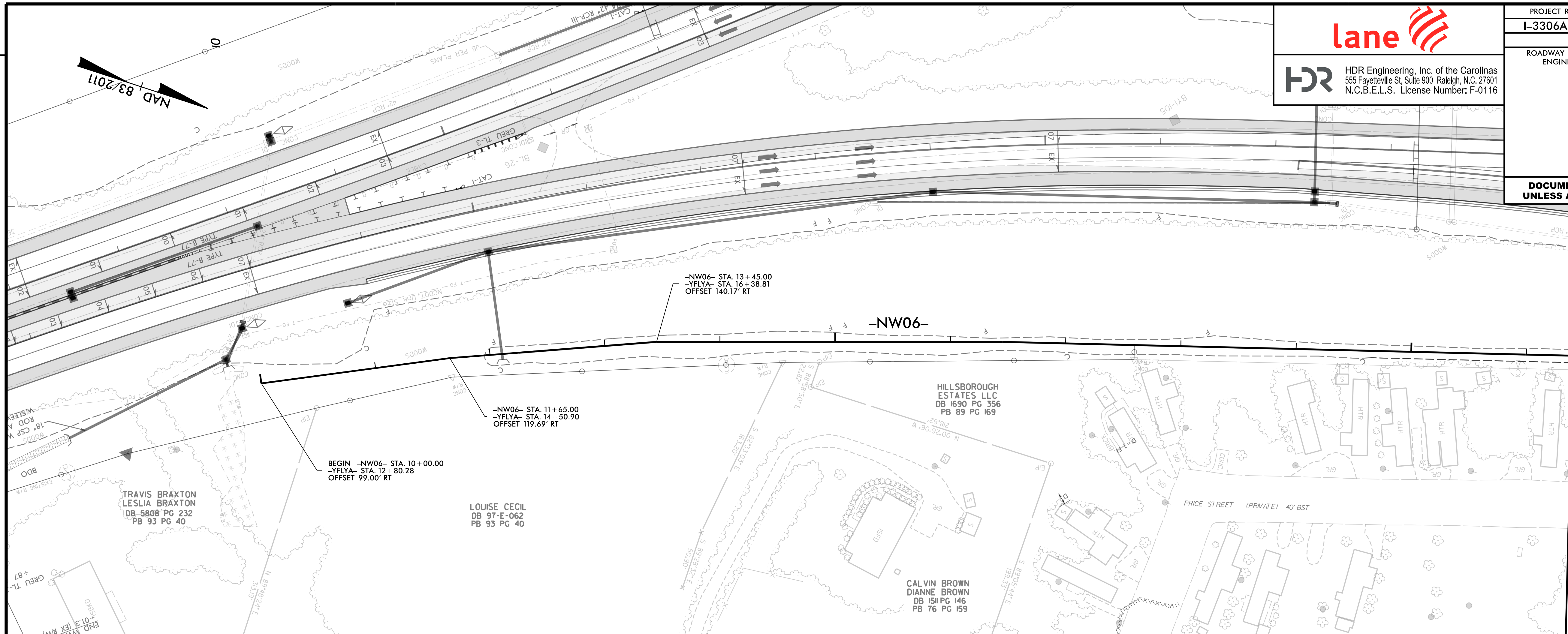
# Appendix E. Noise Wall Envelope Drawings



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

PROJECT REFERENCE NO. I-3306A / W-5707C	SHEET NO. 2N-1
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED



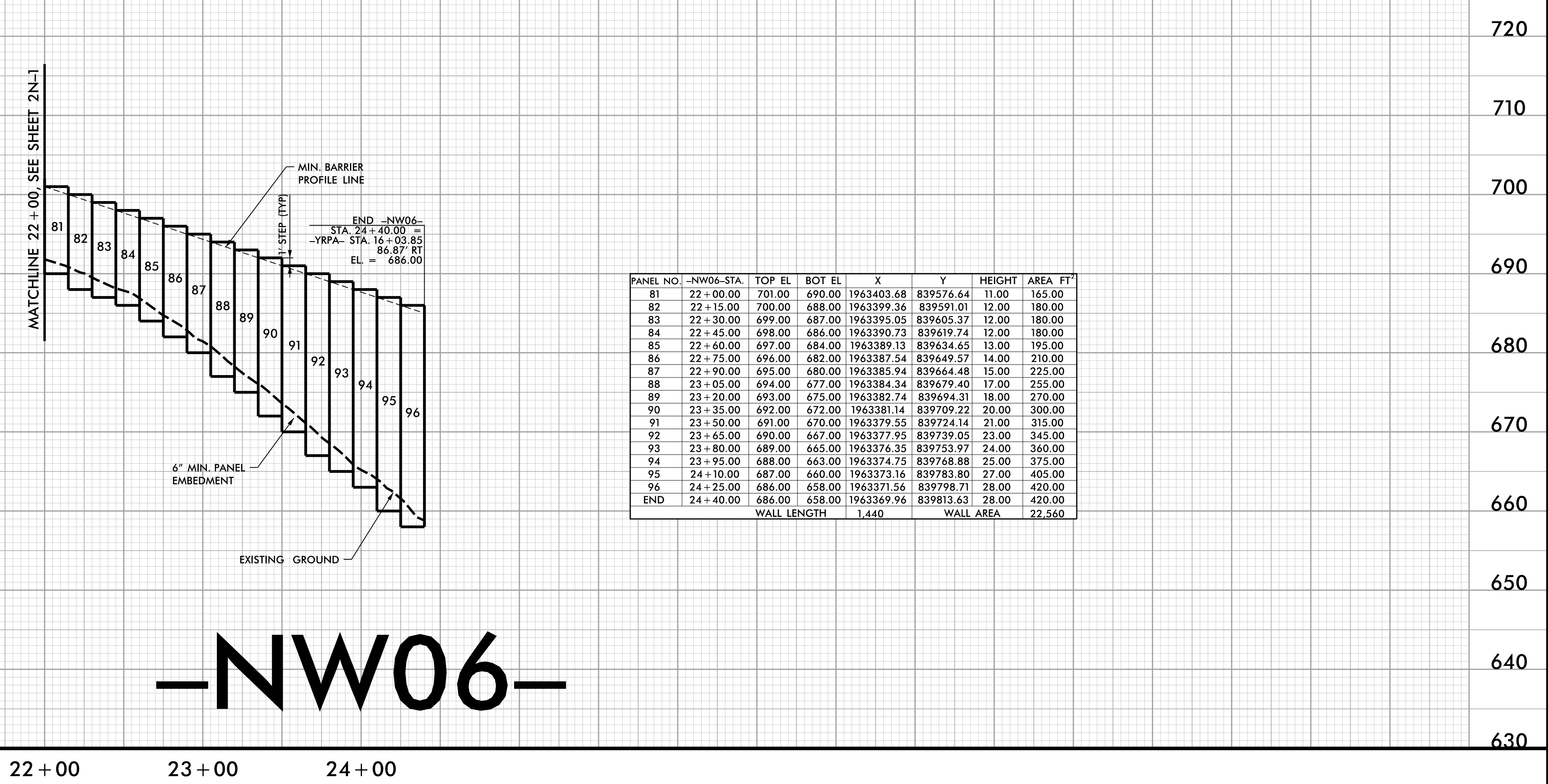
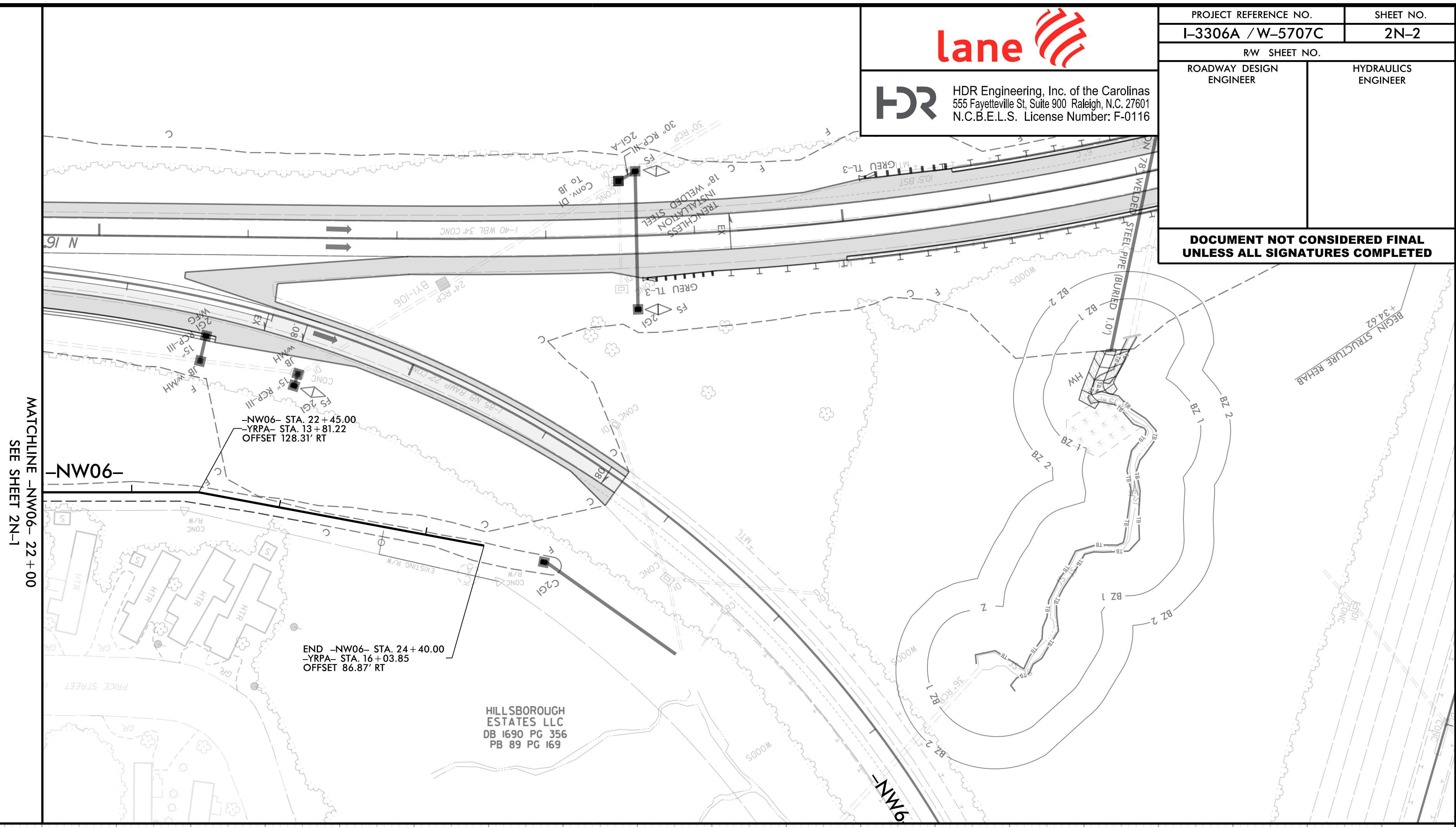
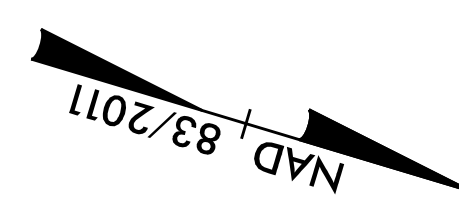
**-NW06-**

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 USER: SPEREIRA  
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 DATE: 7/6/2023  
 TIME: 10:18:58 AM  
 REVISIONS

MATCHLINE -NW06- 22+00  
SEE SHEET 2N-2

MATCHLINE 22+00, SEE SHEET 2N-2





**-NW06-**

PLOT DRIVER: NCDOT\_pdf\_color\_eng\_50.plt  
 USER: SPEREIRA  
 FILE: Lone\_Construction\_Corp\Lane\_I-40\_I-3306\_DB\6.0\_CAD\_BITMAP.6.2\_WIP\I-3306A\_W-5707C\_Roadway\Working\Noise Wall\Working\I3306A\_RDY\_PSH-02N02.dgn  
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 TIME: 10:19:09 AM  
 DATE: 7/6/2023  
 REVISIONS

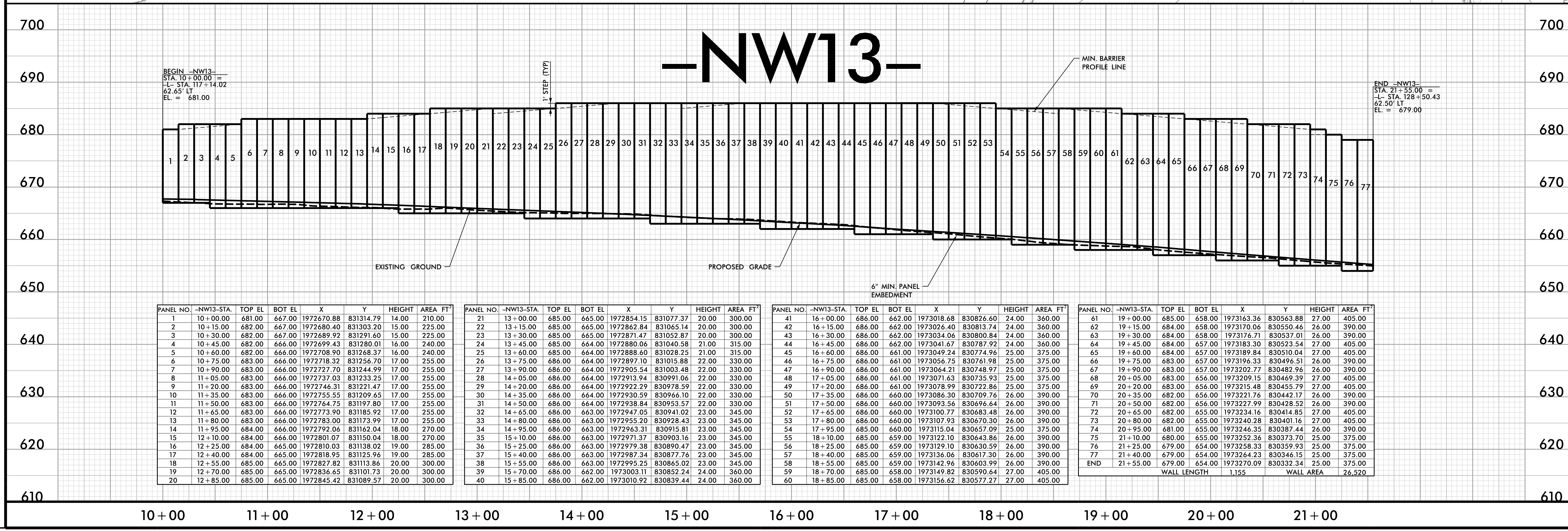
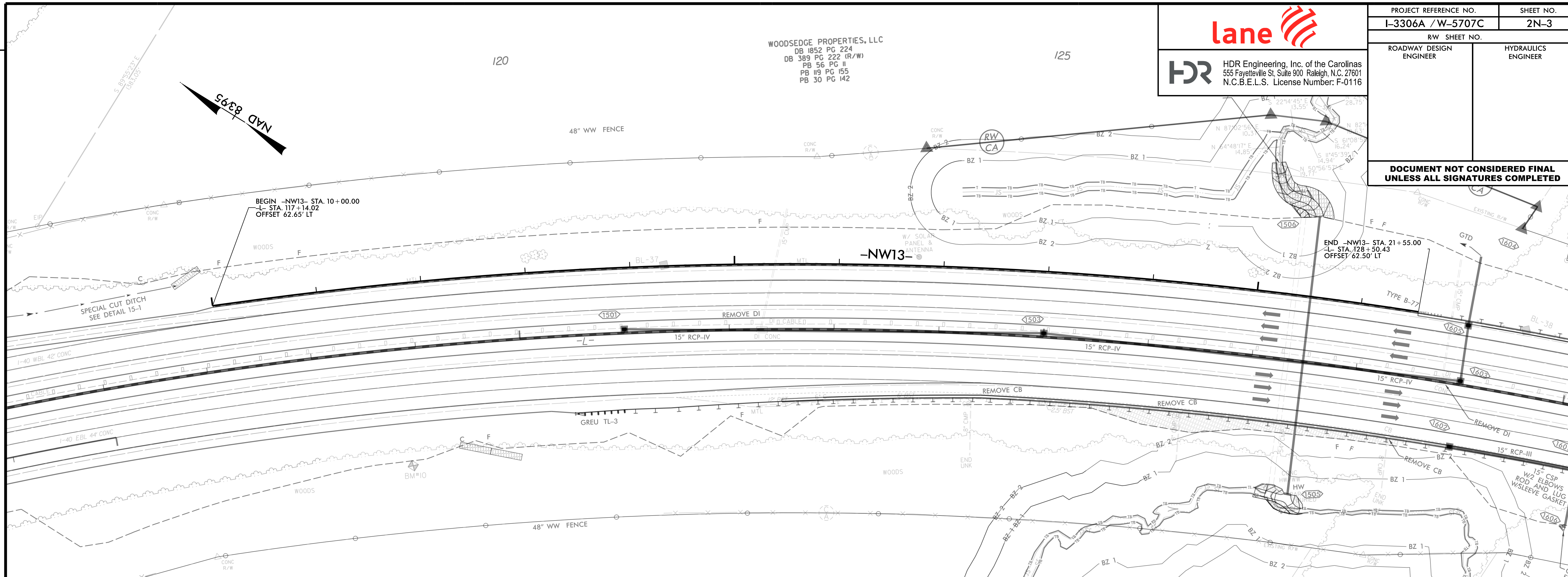




HDR Engineering, Inc. of the Carolinas  
555 Fayetteville St, Suite 900 Raleigh, N.C. 27601  
N.C.B.E.L.S. License Number: F-0116

PROJECT REFERENCE NO. I-3306A /W-5707C	SHEET NO. 2N-3
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

WOODSEGE PROPERTIES, LLC  
DB 1852 PG 224  
DB 389 PG 222 (R/W)  
PB 56 PG II  
PB 119 PG 155  
PB 30 PG 142



PANEL NO.	-NW13-STA.	TOP EL	BOT EL	X	Y	HEIGHT	AREA FT <sup>2</sup>
1	10+00.00	681.00	667.00	1972670.88	831314.79	14.00	210.00
2	10+15.00	682.00	667.00	1972680.40	831303.20	15.00	225.00
3	10+30.00	682.00	667.00	1972689.92	831291.60	15.00	225.00
4	10+45.00	682.00	666.00	1972699.43	831280.01	16.00	240.00
5	10+60.00	682.00	666.00	1972708.90	831268.37	16.00	240.00
6	10+75.00	683.00	666.00	1972718.32	831256.70	17.00	255.00
7	10+90.00	683.00	666.00	1972727.70	831244.99	17.00	255.00
8	11+05.00	683.00	666.00	1972737.03	831233.25	17.00	255.00
9	11+20.00	683.00	666.00	1972746.31	831221.47	17.00	255.00
10	11+35.00	683.00	666.00	1972755.55	831209.65	17.00	255.00
11	11+50.00	683.00	666.00	1972764.75	831197.80	17.00	255.00
12	11+65.00	683.00	666.00	1972773.90	831185.92	17.00	255.00
13	11+80.00	683.00	666.00	1972783.00	831173.99	17.00	255.00
14	11+95.00	684.00	666.00	1972792.06	831162.04	18.00	270.00
15	12+10.00	684.00	666.00	1972801.07	831150.04	18.00	270.00
16	12+25.00	684.00	665.00	1972810.03	831138.02	19.00	285.00
17	12+40.00	684.00	665.00	1972818.95	831125.96	19.00	285.00
18	12+55.00	685.00	665.00	1972827.82	831113.96	20.00	300.00
19	12+70.00	685.00	665.00	1972836.65	831101.93	20.00	300.00
20	12+85.00	685.00	665.00	1972845.42	831089.87	20.00	300.00

PANEL NO.	-NW13-STA.	TOP EL	BOT EL	X	Y	HEIGHT	AREA FT <sup>2</sup>
21	13+00.00	685.00	665.00	1972854.15	831077.37	20.00	300.00
22	13+15.00	685.00	665.00	1972862.84	831065.14	20.00	300.00
23	13+30.00	685.00	665.00	1972871.47	831052.87	20.00	300.00
24	13+45.00	685.00	664.00	1972880.06	831040.58	21.00	315.00
25	13+60.00	685.00	664.00	1972888.60	831028.25	21.00	315.00
26	13+75.00	686.00	664.00	1972897.10	831015.88	22.00	330.00
27	13+90.00	686.00	664.00	1972905.54	831003.48	22.00	330.00
28	14+05.00	686.00	664.00	1972913.94	830991.06	22.00	330.00
29	14+20.00	686.00	664.00	1972922.29	830978.59	22.00	330.00
30	14+35.00	686.00	664.00	1972930.59	830966.10	22.00	330.00
31	14+50.00	686.00	664.00	1972938.84	830953.57	22.00	330.00
32	14+65.00	686.00	663.00	1972947.05	830941.02	23.00	345.00
33	14+80.00	686.00	663.00	1972955.20	830928.43	23.00	345.00
34	14+95.00	686.00	663.00	1972963.31	830915.81	23.00	345.00
35	15+10.00	686.00	663.00	1972971.37	830903.16	23.00	345.00
36	15+25.00	686.00	663.00	1972979.38	830890.47	23.00	345.00
37	15+40.00	686.00	663.00	1972987.34	830877.76	23.00	345.00
38	15+55.00	686.00	663.00	1972995.25	830865.02	23.00	345.00
39	15+70.00	686.00	662.00	1973003.11	830852.24	24.00	360.00
40	15+85.00	686.00	662.00	1973010.92	830839.44	24.00	360.00

PANEL NO.	-NW13-STA.	TOP EL	BOT EL	X	Y	HEIGHT	AREA FT <sup>2</sup>
41	16+00.00	686.00	662.00	1973018.68	830826.60	24.00	360.00
42	16+15.00	686.00	662.00	1973026.40	830813.74	24.00	360.00
43	16+30.00	686.00	662.00	1973034.06	830800.84	24.00	360.00
44	16+45.00	686.00	662.00	1973041.67	830787.92	24.00	360.00
45	16+60.00	686.00	661.00	1973049.24	830774.96	25.00	375.00
46	16+75.00	686.00	661.00	1973056.75	830761.98	25.00	375.00
47	16+90.00	686.00	661.00	1973064.21	830748.97	25.00	375.00
48	17+05.00	686.00	661.00	1973071.63	830735.93	25.00	375.00
49	17+20.00	686.00	661.00	1973078.99	830722.86	25.00	375.00
50	17+35.00	686.00	660.00	1973086.30	830709.76	26.00	390.00
51	17+50.00	686.00	660.00	1973093.56	830696.64	26.00	390.00
52	17+65.00	686.00	660.00	1973100.77	830683.48	26.00	390.00
53	17+80.00	686.00	660.00	1973107.93	830670.30	26.00	390.00
54	17+95.00	685.00	660.00	1973115.04	830657.09	25.00	375.00
55	18+10.00	685.00	659.00	1973122.10	830643.86	26.00	390.00
56	18+25.00	685.00	659.00	1973129.10	830630.59	26.00	390.00
57	18+40.00	685.00	659.00	1973136.06	830617.30	26.00	390.00
58	18+55.00	685.00	659.00	1973142.96	830603.99	26.00	390.00
59	18+70.00	685.00	658.00	1973149.82	830590.64	27.00	405.00
60	18+85.00	685.00	658.00	1973156.62	830577.27	27.00	405.00

PANEL NO.	-NW13-STA.	TOP EL	BOT EL	X	Y	HEIGHT	AREA FT <sup>2</sup>
61	19+00.00	685.00	658.00	1973163.36	830563.88	27.00	405.00
62	19+15.00	684.00	658.00	1973170.06	830550.46	26.00	390.00
63	19+30.00	684.00	658.00	1973176.71	830537.01	26.00	390.00
64	19+45.00	684.00	657.00	1973183.30	830523.54	27.00	405.00
65	19+60.00	684.00	657.00	1973189.84	830510.04	27.00	405.00
66	19+75.00	683.00	657.00	1973196.33	830496.51	26.00	390.00
67	19+90.00	683.00	657.00	1973202.77	830482.96	26.00	390.00
68	20+05.00	683.00	656.00	1973209.15	830469.39	27.00	405.00
69	20+20.00	683.00	656.00	1973215.48	830455.79	27.00	405.00
70	20+35.00	682.00	656.00	1973221.76	830442.17	26.00	390.00
71	20+50.00	682.00	656.00	1973227.99	830428.52	26.00	390.00
72	20+65.00	682.00	655.00	1973234.16	830414.85	27.00	405.00
73	20+80.00	682.00	655.00	1973240.28	830401.16	27.00	405.00
74	20+95.00	681.00	655.00	1973246.35	830387.44	26.00	390.00
75	21+10.00	680.00	655.00	1973252.36	830373.70	25.00	375.00
76	21+25.00	679.00	654.00	1973258.33	830359.93	25.00	375.00
77	21+40.00	679.00	654.00	1973264.23	830346.15	25.00	375.00
END	21+55.00	679.00	654.00	1973270.09	830332.34	25.00	375.00
		WALL LENGTH	1,155	WALL AREA	26,520		

10+00    11+00    12+00    13+00    14+00    15+00    16+00    17+00    18+00    19+00    20+00    21+00

PLOT DRIVER: NCDOT\_pdf\_color\_eng\_50c.plt  
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 DATE: 7/16/2023  
 FILE: Lane\_Consrtruction\_Corp\_Lane\_I-40\_I-3306A\_W-5707C\_Roadway\_Working\_Noise\_Wall\_Working\_I3306A\_RDY\_PSH-02N03.dgn

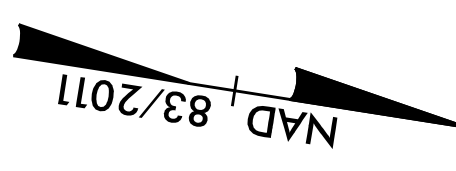
REVISIONS



PLOT DRIVER: NCDOT\_color\_eng\_50.plt  
 USER: SPEREIRA  
 FILE: Lane\_Construction\_Corp\Lane\_I-40\_I-3306\_DB\6.0\_CAD\_BITMAP\2\_WIP\I-3306A\_W-5707C\_Roadway\Work\Noise\Wall\Work\King\Noise\Wall\Work\King\Noise\Wall\Work\King\I3306A\_RDY\_PSH-02NO4.dgn  
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 DATE: 7/6/2023

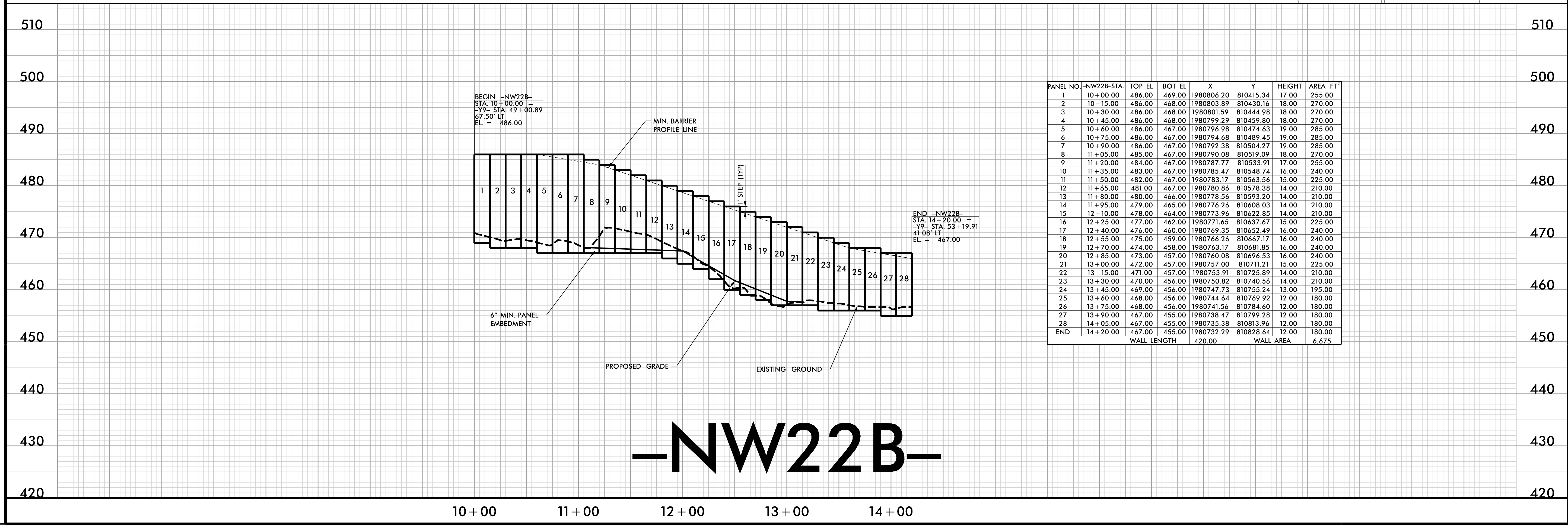
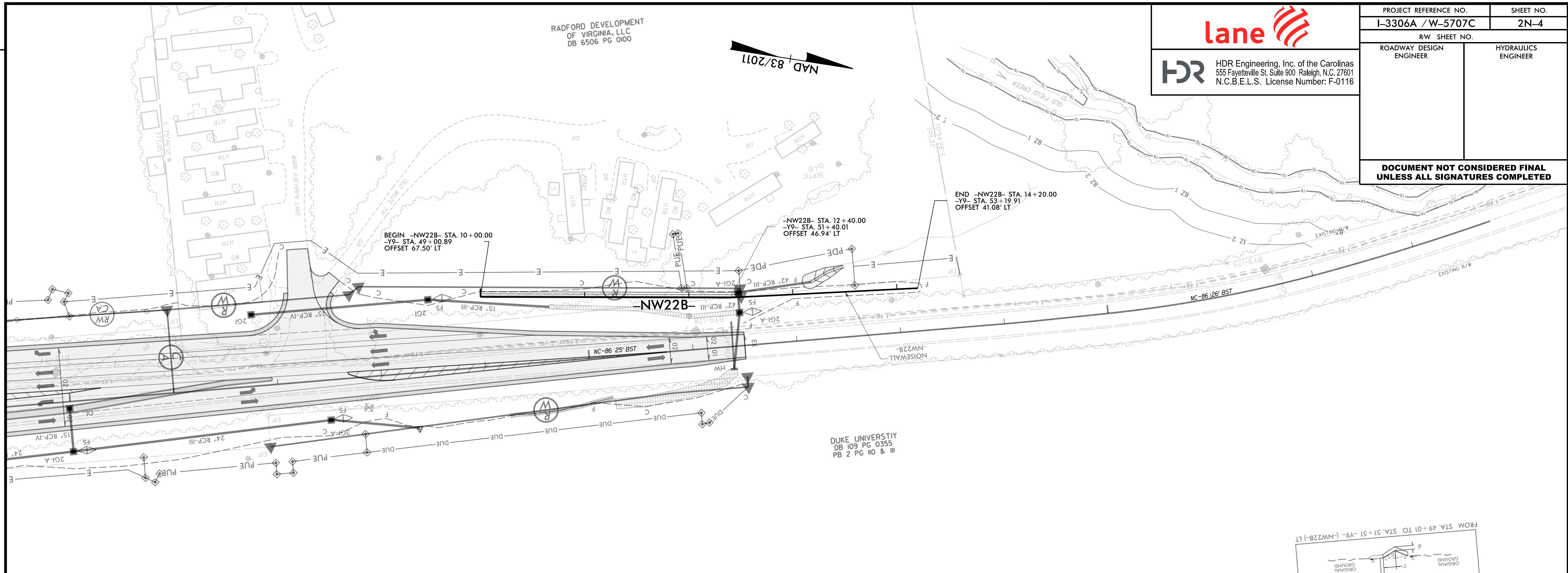
REVISIONS

RADFORD DEVELOPMENT  
 OF VIRGINIA, LLC  
 DB 6506 PG 0100



**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

PROJECT REFERENCE NO. I-3306A /W-5707C	SHEET NO. 2N-4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	



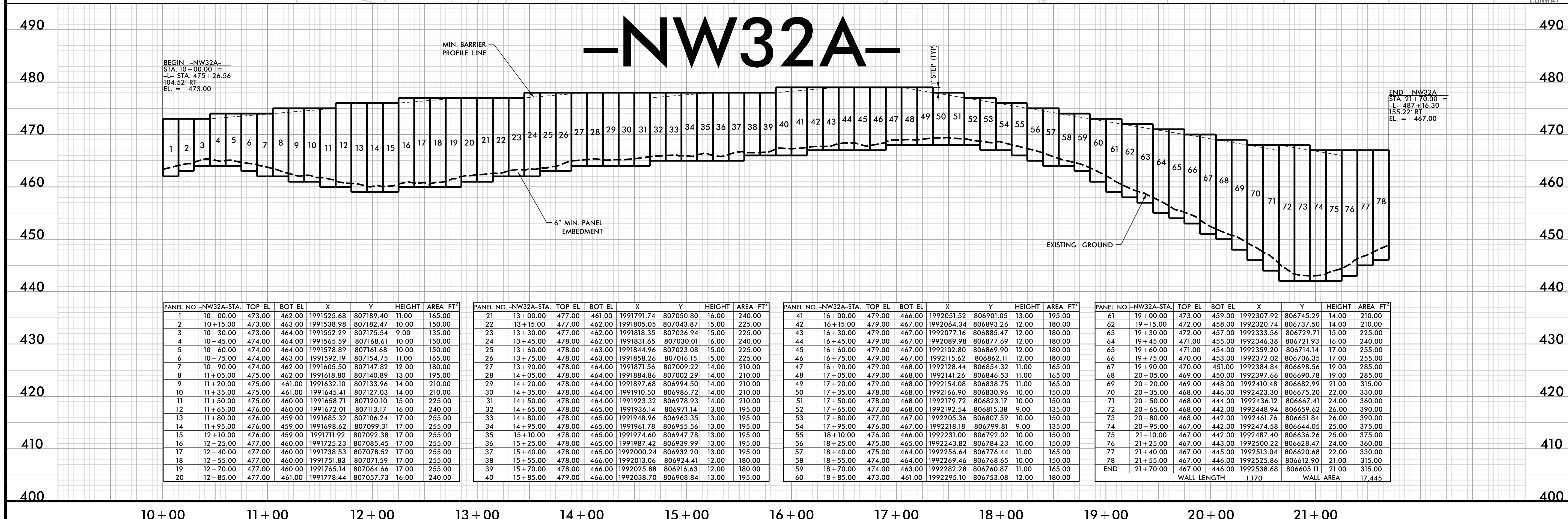
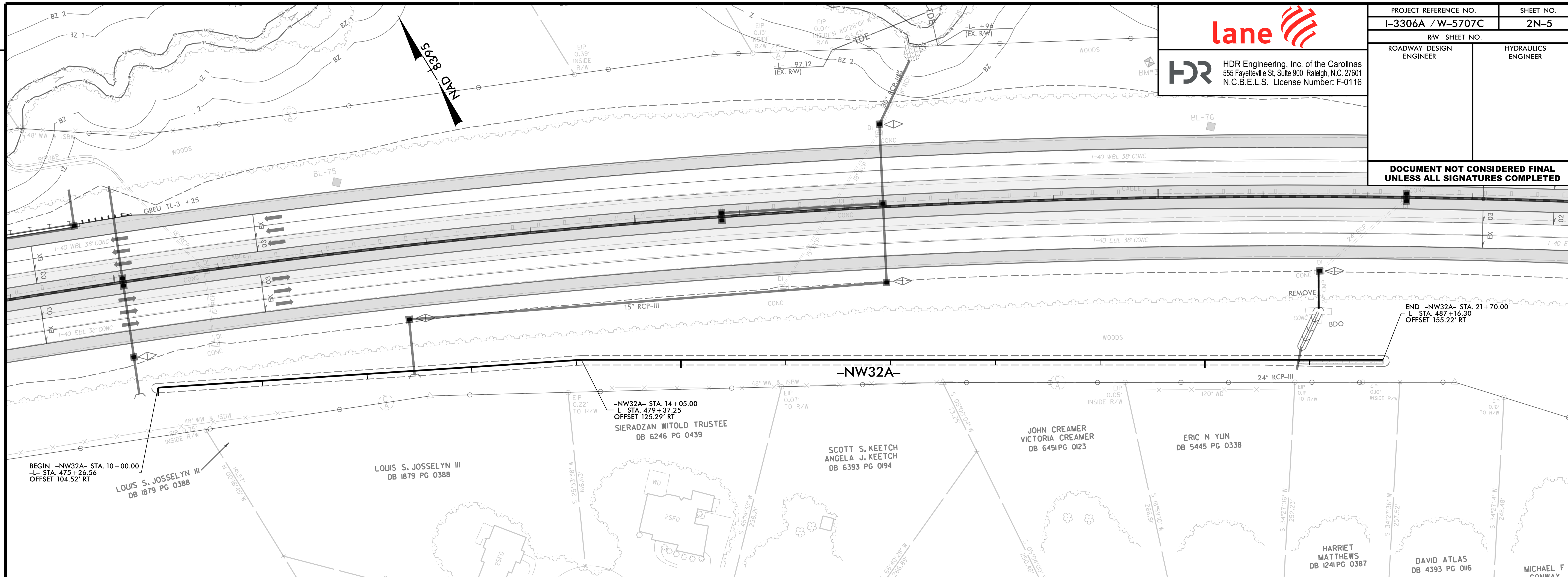
**-NW22B-**





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

PROJECT REFERENCE NO. I-3306A /W-5707C	SHEET NO. 2N-5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	



PLOT DRIVER: NCDOT\_pdf\_color\_eng\_50.plt  
 USER: SPEREIRA  
 DATE: 7/6/2023  
 TIME: 10:19:37 AM  
 FILE: Lane\_Construction\_Corp\_Lane\_I-40\_I-3306A\_W-5707C\_Roadway\_Working\_Noise\_Wall\_Working\_I3306A\_RDY\_PSH-02N05.dgn

REVISIONS



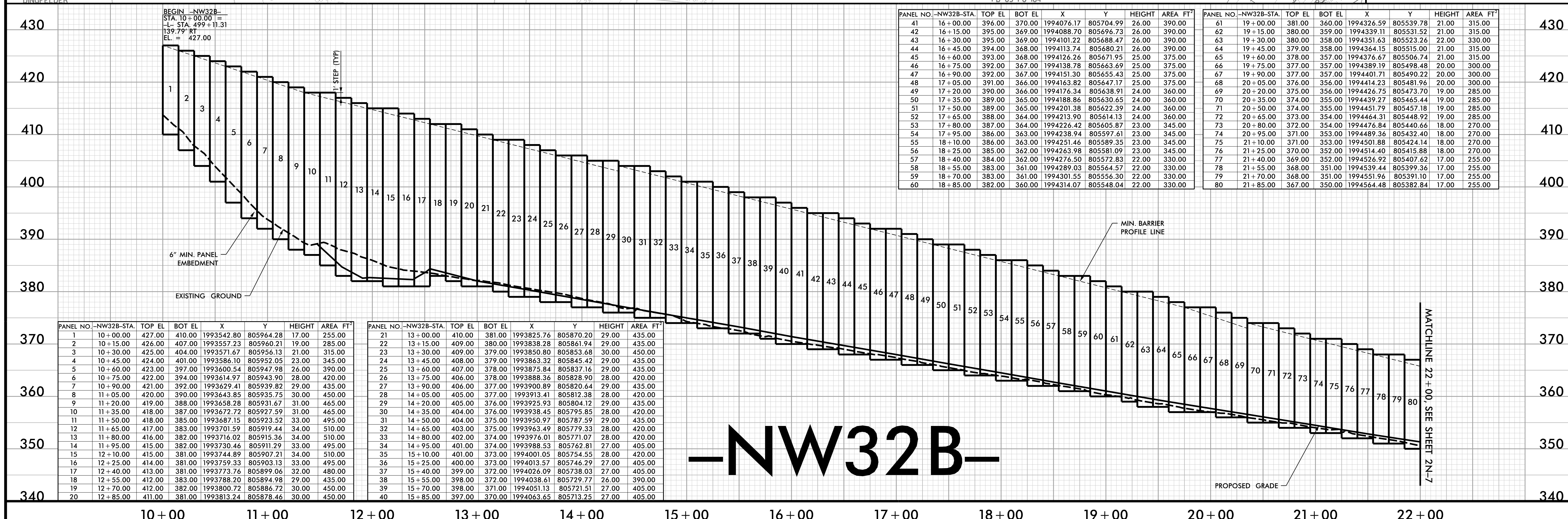
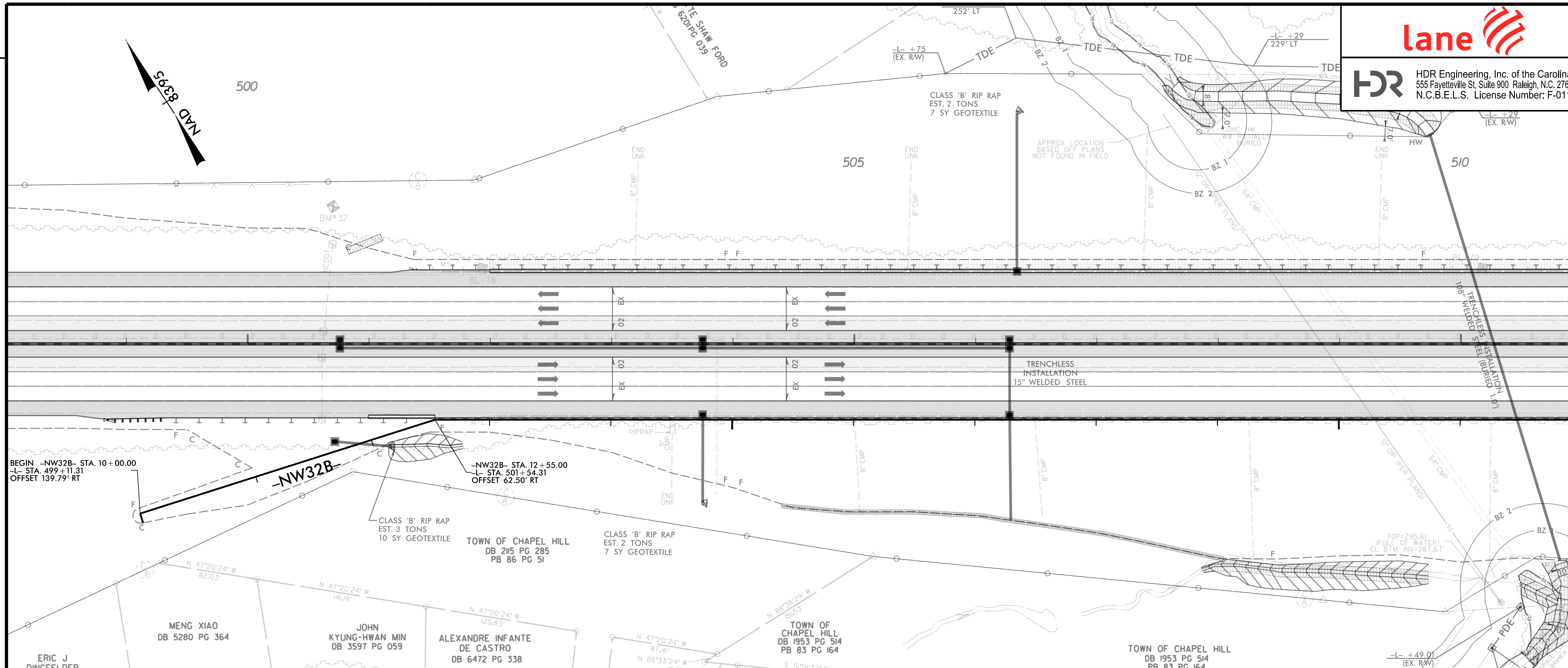


HDR Engineering, Inc. of the Carolinas  
555 Fayetteville St, Suite 900 Raleigh, N.C. 27601  
N.C.B.E.L.S. License Number: F-0116

PROJECT REFERENCE NO. I-3306A /W-5707C	SHEET NO. 2N-6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

MATCHLINE NW32B-22+00  
SEE SHEET 2N-7



**-NW32B-**

PLOT DRIVER: NCDOT\_color\_eng\_50.plt  
 USER: SPHERE  
 FILE: Lane\_Construction\_Corp\_Lane\_I-40\_I-3306\_DB\_V6.0\_CAD\_BTM\_V6.2\_WIP\_I-3306A\_W-5707C\_Roadway\_Working\_Noise\_Wall\_Working\_I3306A\_RDY\_PSH-02N06.dgn  
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 TIME: 10:19:47 AM  
 DATE: 7/6/2023  
 REVISIONS



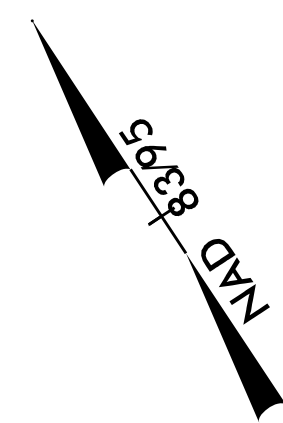


HDR Engineering, Inc. of the Carolinas  
555 Fayetteville St, Suite 900 Raleigh, N.C. 27601  
N.C.B.E.L.S. License Number: F-0116

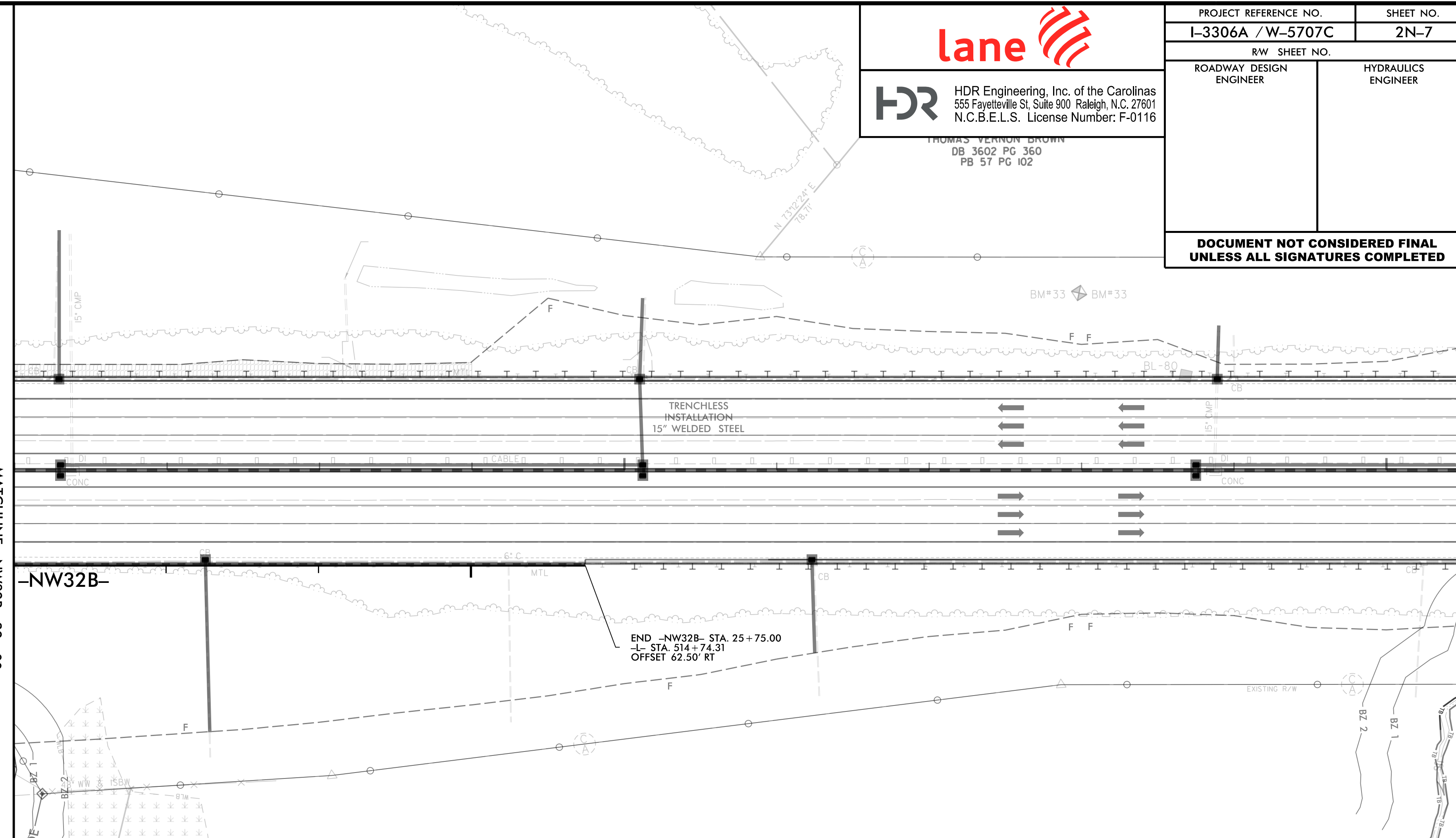
THOMAS VERNON BROWN  
DB 3602 PG 360  
PB 57 PG 102

PROJECT REFERENCE NO. I-3306A /W-5707C	SHEET NO. 2N-7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

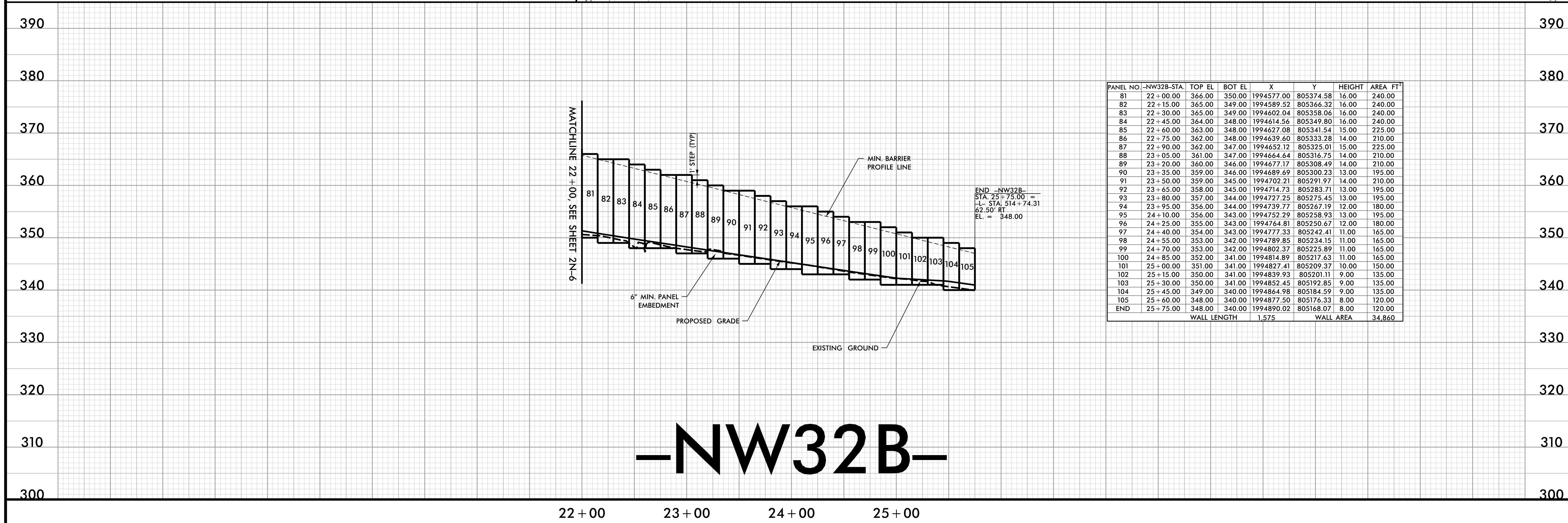
**DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED**



MATCHLINE -NW32B- 22+00  
SEE SHEET 2N-6



REVISIONS



PANEL NO.	-NW32B-STA.	TOP EL.	BOT EL.	X	Y	HEIGHT	AREA FT <sup>2</sup>
81	22+00.00	366.00	350.00	1994577.00	805374.58	16.00	240.00
82	22+15.00	365.00	349.00	1994589.52	805366.32	16.00	240.00
83	22+30.00	365.00	349.00	1994602.04	805358.06	16.00	240.00
84	22+45.00	364.00	348.00	1994614.56	805349.80	16.00	240.00
85	22+60.00	363.00	348.00	1994627.08	805341.54	15.00	225.00
86	22+75.00	362.00	348.00	1994639.60	805333.28	14.00	210.00
87	22+90.00	362.00	347.00	1994652.12	805325.01	15.00	225.00
88	23+05.00	361.00	347.00	1994664.64	805316.75	14.00	210.00
89	23+20.00	360.00	346.00	1994677.17	805308.49	14.00	210.00
90	23+35.00	359.00	346.00	1994689.69	805300.23	13.00	195.00
91	23+50.00	359.00	345.00	1994702.21	805291.97	14.00	210.00
92	23+65.00	358.00	345.00	1994714.73	805283.71	13.00	195.00
93	23+80.00	357.00	344.00	1994727.25	805275.45	13.00	195.00
94	23+95.00	356.00	344.00	1994739.77	805267.19	12.00	180.00
95	24+10.00	356.00	343.00	1994752.29	805258.93	13.00	195.00
96	24+25.00	355.00	343.00	1994764.81	805250.67	12.00	180.00
97	24+40.00	354.00	343.00	1994777.33	805242.41	11.00	165.00
98	24+55.00	353.00	342.00	1994789.85	805234.15	11.00	165.00
99	24+70.00	353.00	342.00	1994802.37	805225.89	11.00	165.00
100	24+85.00	352.00	341.00	1994814.89	805217.63	11.00	165.00
101	25+00.00	351.00	341.00	1994827.41	805209.37	10.00	150.00
102	25+15.00	350.00	341.00	1994839.93	805201.11	9.00	135.00
103	25+30.00	350.00	341.00	1994852.45	805192.85	9.00	135.00
104	25+45.00	349.00	340.00	1994864.98	805184.59	9.00	135.00
105	25+60.00	348.00	340.00	1994877.50	805176.33	8.00	120.00
END	25+75.00	348.00	340.00	1994890.02	805168.07	8.00	120.00
		WALL LENGTH		1,575	WALL AREA		34,860

**-NW32B-**

PLOT DRIVER: NCDOT\_color\_eng\_50.plt  
USER: SPEREIRA  
FILE: Lane\_Construction\_Corp\Lane\_I-40\_I-3306\_DB\6.0\_CAD\_BITMAP\6.2\_WIP\I-3306A\_W-5707C\_Roadway\Working\Noise Wall\Working\I3306A\_RDY\_PSH-02N07.dgn

PENTABLE: NCDOT\_pshp.fltd  
TIME: 10:19:55 AM  
DATE: 7/6/2023