

PROJECT MANAGER: Erin Eoley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDB, Engineer Inc.
SUBSURFACE UTILITY BY, DATE: N/A

LOCATION MAP

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	64		0064-121-418, P101	1A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

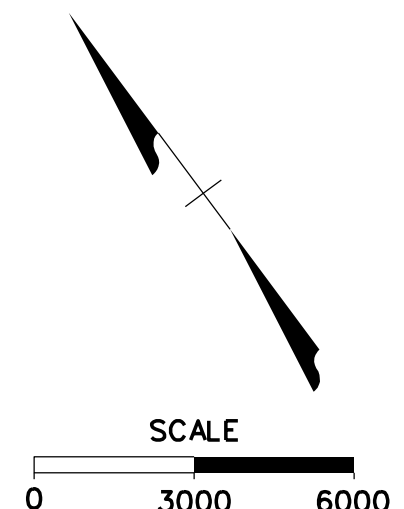
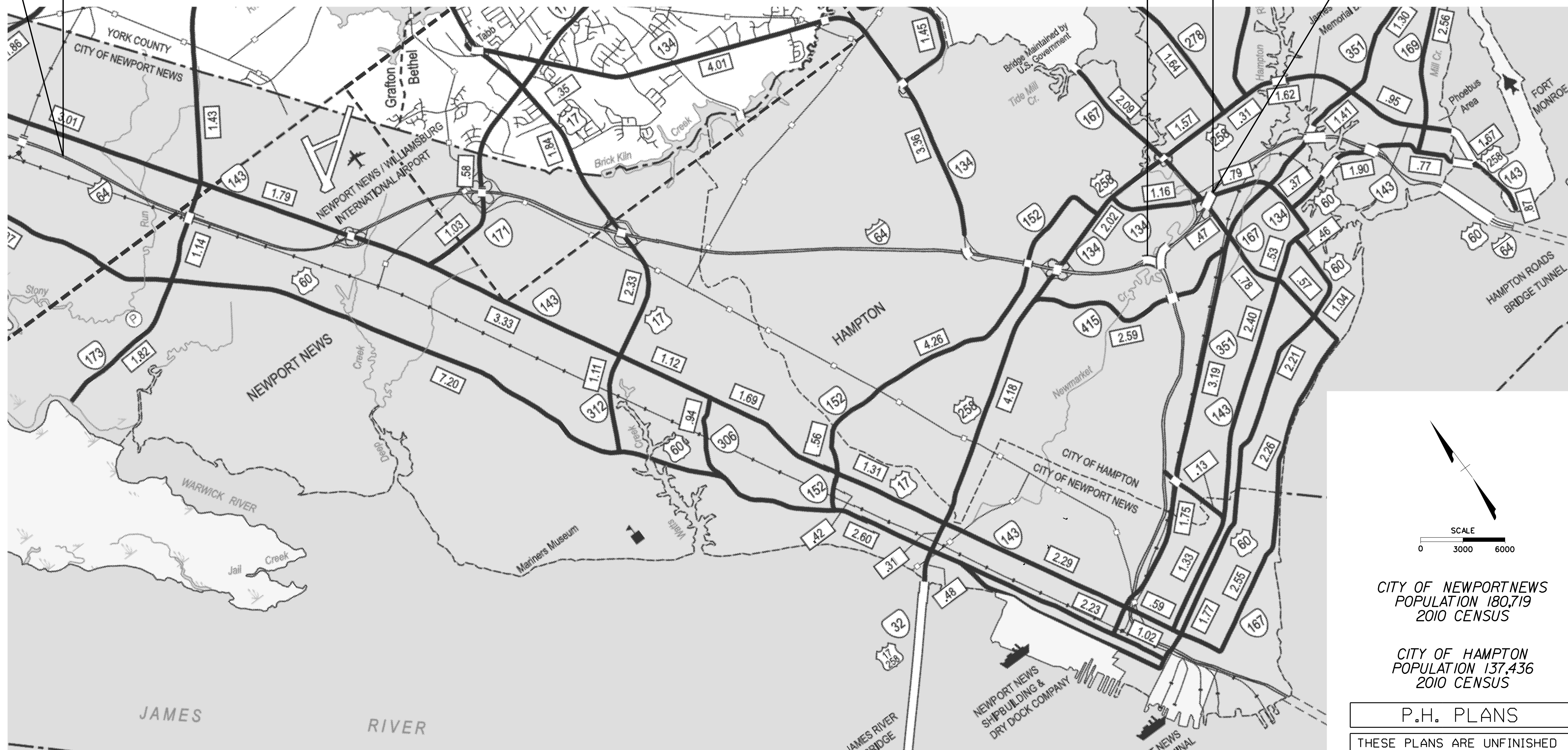
BEGIN PROJECT
I-64 HREL 4A/4B, PE-101
STA. 696+21.40 I-64 EB R

SEGMENT 4A

SEGMENT 4B

SEGMENT 4C
(By Others)

END PROJECT
I-64 HREL 4A/4B, PE-101
STA. 1402+91.69 I-64 EB R



CITY OF NEWPORT NEWS
POPULATION 180,719
2010 CENSUS

CITY OF HAMPTON
POPULATION 137,436
2010 CENSUS

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROJECT MANAGER: Erin Eoley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDR Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: N/A

INDEX OF SHEETS

REVISED	STATE		STATE		SHEET NO.
	STATE	ROUTE	PROJECT		
	VA.	64	0064-121-418, P101		1B(1)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

SHEET NO.	DESCRIPTION	STATIONS	SHEET NO.	DESCRIPTION	STATIONS
1	TITLE SHEET		19	ROADWAY, SIGN & PAVEMENT MARKING SHEET	918-00.00 to 932-00.00
1A	LOCATION MAP		19C	EROSION AND SEDIMENT PLAN SHEET	918-00.00 to 932-00.00
1B(1) - 1B(3)	INDEX OF SHEETS		20	ROADWAY, SIGN & PAVEMENT MARKING SHEET	932-00.00 to 946-00.00
1C(1)	RIGHT OF WAY DATA SHEET		20C	EROSION AND SEDIMENT PLAN SHEET	932-00.00 to 946-00.00
1C(2)-1C(4)	PROPERTY OWNER SHEETS		21	ROADWAY, SIGN & PAVEMENT MARKING SHEET	946-00.00 to 960-00.00
1D	REVISION DATA SHEET		21C	EROSION AND SEDIMENT PLAN SHEET	946-00.00 to 960-00.00
1F(1) - 1F(3)	CONSTRUCTION ALIGNMENT DATA SHEETS		22	ROADWAY, SIGN & PAVEMENT MARKING SHEET	960-00.00 to 974-00.00
1J(1) - 1J(1A)	TEMPORARY TRAFFIC CONTROL NOTES / SEQUENCE OF CONSTRUCTION		22C	EROSION AND SEDIMENT PLAN SHEET	960-00.00 to 974-00.00
1J(2A) - 1J(2C)	TEMPORARY TRAFFIC CONTROL SECTIONS		23	ROADWAY, SIGN & PAVEMENT MARKING SHEET	974-00.00 to 988-00.00
2	GENERAL NOTES		23C	EROSION AND SEDIMENT PLAN SHEET	974-00.00 to 988-00.00
2(1)	SIGNING GENERAL NOTES AND LEGEND		24	ROADWAY, SIGN & PAVEMENT MARKING SHEET	988-00.00 to 1002-00.00
2(2)	PAVEMENT MARKING GENERAL NOTES AND LEGEND		24C	EROSION AND SEDIMENT PLAN SHEET	988-00.00 to 1002-00.00
2(3)	PAVEMENT MARKING DETAILS		25	ROADWAY, SIGN & PAVEMENT MARKING SHEET	1002-00.00 to 1016-00.00
2A(1) - 2A(3)	TYPICAL SECTIONS		25C	EROSION AND SEDIMENT PLAN SHEET	1002-00.00 to 1016-00.00
2C(1) - 2C(4)	STORMWATER POLLUTION PREVENTION PLAN (SWPPP)		26	ROADWAY, SIGN & PAVEMENT MARKING SHEET	1016-00.00 to 1030-00.00
2D(1) - 2D(2)	SIGN DETAILS		26C	EROSION AND SEDIMENT PLAN SHEET	1016-00.00 to 1030-00.00
2E(1) - 2E(8)	SIGN SCHEDULE		27	ROADWAY, SIGN & PAVEMENT MARKING SHEET	1030-00.00 to 1044-00.00
2F(1) - 2F(2)	TYPE VA AND VIA SIGN DETAILS		27C	EROSION AND SEDIMENT PLAN SHEET	1030-00.00 to 1044-00.00
2G	MEDIAN BARRIER MOUNTED SIGN DETAIL		28	ROADWAY, SIGN & PAVEMENT MARKING SHEET	1044-00.00 to 1058-00.00
2W(1)-2W(10)	ACCESS DRIVEWAY GRADING DETAIL SHEET		28C	EROSION AND SEDIMENT PLAN SHEET	1044-00.00 to 1058-00.00
3	ROADWAY, SIGN & PAVEMENT MARKING SHEET	696-25.00 to 708-00.00	29	ROADWAY, SIGN & PAVEMENT MARKING SHEET	1058-00.00 to 1072-00.00
3C	EROSION AND SEDIMENT PLAN SHEET	696-25.00 to 708-00.00	29C	EROSION AND SEDIMENT PLAN SHEET	1058-00.00 to 1072-00.00
4	ROADWAY, SIGN & PAVEMENT MARKING SHEET	708-00.00 to 722-00.00	30	ROADWAY, SIGN & PAVEMENT MARKING SHEET	1072-00.00 to 1086-00.00
4C	EROSION AND SEDIMENT PLAN SHEET	708-00.00 to 722-00.00	30C	EROSION AND SEDIMENT PLAN SHEET	1072-00.00 to 1086-00.00
5	ROADWAY, SIGN & PAVEMENT MARKING SHEET	722-00.00 to 736-00.00	31	ROADWAY, SIGN & PAVEMENT MARKING SHEET	1086-00.00 to 1100-00.00
5C	EROSION AND SEDIMENT PLAN SHEET	722-00.00 to 736-00.00	31C	EROSION AND SEDIMENT PLAN SHEET	1086-00.00 to 1100-00.00
6	ROADWAY, SIGN & PAVEMENT MARKING SHEET	736-00.00 to 750-00.00	32	ROADWAY, SIGN & PAVEMENT MARKING SHEET	1100-00.00 to 1114-00.00
6C	EROSION AND SEDIMENT PLAN SHEET	736-00.00 to 750-00.00	32C	EROSION AND SEDIMENT PLAN SHEET	1100-00.00 to 1114-00.00
7	ROADWAY, SIGN & PAVEMENT MARKING SHEET	750-00.00 to 764-00.00	33	ROADWAY, SIGN & PAVEMENT MARKING SHEET	1114-00.00 to 1128-00.00
7C	EROSION AND SEDIMENT PLAN SHEET	750-00.00 to 764-00.00	33C	EROSION AND SEDIMENT PLAN SHEET	1114-00.00 to 1128-00.00
8	ROADWAY, SIGN & PAVEMENT MARKING SHEET	764-00.00 to 778-00.00	34	ROADWAY, SIGN & PAVEMENT MARKING SHEET	1128-00.00 to 1142-00.00
8C	EROSION AND SEDIMENT PLAN SHEET	764-00.00 to 778-00.00	34C	EROSION AND SEDIMENT PLAN SHEET	1128-00.00 to 1142-00.00
9	ROADWAY, SIGN & PAVEMENT MARKING SHEET	778-00.00 to 792-00.00	35	ROADWAY, SIGN & PAVEMENT MARKING SHEET	1142-00.00 to 1156-00.00
9C	EROSION AND SEDIMENT PLAN SHEET	778-00.00 to 792-00.00	35C	EROSION AND SEDIMENT PLAN SHEET	1142-00.00 to 1156-00.00
10	ROADWAY, SIGN & PAVEMENT MARKING SHEET	792-00.00 to 806-00.00	36	ROADWAY, SIGN & PAVEMENT MARKING SHEET	1156-00.00 to 1170-00.00
10C	EROSION AND SEDIMENT PLAN SHEET	792-00.00 to 806-00.00	36C	EROSION AND SEDIMENT PLAN SHEET	1156-00.00 to 1170-00.00
11	ROADWAY, SIGN & PAVEMENT MARKING SHEET	806-00.00 to 820-00.00	37	ROADWAY, SIGN & PAVEMENT MARKING SHEET	1170-00.00 to 1184-00.00
11C	EROSION AND SEDIMENT PLAN SHEET	806-00.00 to 820-00.00	37C	EROSION AND SEDIMENT PLAN SHEET	1170-00.00 to 1184-00.00
12	ROADWAY, SIGN & PAVEMENT MARKING SHEET	820-00.00 to 834-00.00	38	ROADWAY, SIGN & PAVEMENT MARKING SHEET	1184-00.00 to 1198-00.00
12C	EROSION AND SEDIMENT PLAN SHEET	820-00.00 to 834-00.00	38C	EROSION AND SEDIMENT PLAN SHEET	1184-00.00 to 1198-00.00
13	ROADWAY, SIGN & PAVEMENT MARKING SHEET	834-00.00 to 848-00.00	39	ROADWAY, SIGN & PAVEMENT MARKING SHEET	1198-00.00 to 1212-00.00
13C	EROSION AND SEDIMENT PLAN SHEET	834-00.00 to 848-00.00	39C	EROSION AND SEDIMENT PLAN SHEET	1198-00.00 to 1212-00.00
14	ROADWAY, SIGN & PAVEMENT MARKING SHEET	848-00.00 to 862-00.00	40	ROADWAY, SIGN & PAVEMENT MARKING SHEET	1212-00.00 to 1226-00.00
14C	EROSION AND SEDIMENT PLAN SHEET	848-00.00 to 862-00.00	40C	EROSION AND SEDIMENT PLAN SHEET	1212-00.00 to 1226-00.00
15	ROADWAY, SIGN & PAVEMENT MARKING SHEET	862-00.00 to 876-00.00	41	ROADWAY, SIGN & PAVEMENT MARKING SHEET	1226-00.00 to 1240-00.00
15C	EROSION AND SEDIMENT PLAN SHEET	862-00.00 to 876-00.00	41C	EROSION AND SEDIMENT PLAN SHEET	1226-00.00 to 1240-00.00
16	ROADWAY, SIGN & PAVEMENT MARKING SHEET	876-00.00 to 890-00.00	42	ROADWAY, SIGN & PAVEMENT MARKING SHEET	1240-00.00 to 1254-00.00
16C	EROSION AND SEDIMENT PLAN SHEET	876-00.00 to 890-00.00	42C	EROSION AND SEDIMENT PLAN SHEET	1240-00.00 to 1254-00.00
17	ROADWAY, SIGN & PAVEMENT MARKING SHEET	890-00.00 to 904-00.00	43	ROADWAY, SIGN & PAVEMENT MARKING SHEET	1254-00.00 to 1268-00.00
17C	EROSION AND SEDIMENT PLAN SHEET	890-00.00 to 904-00.00	43C	EROSION AND SEDIMENT PLAN SHEET	1254-00.00 to 1268-00.00
18	ROADWAY, SIGN & PAVEMENT MARKING SHEET	904-00.00 to 918-00.00	44	ROADWAY, SIGN & PAVEMENT MARKING SHEET	1268-00.00 to 1282-00.00
18C	EROSION AND SEDIMENT PLAN SHEET	904-00.00 to 918-00.00	44C	EROSION AND SEDIMENT PLAN SHEET	1268-00.00 to 1282-00.00

P.H. PLANS

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PROJECT MANAGER: Erin Eoley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDR Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: MZA

INDEX OF SHEETS

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	1B(2)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

SHEET NO.	DESCRIPTION	STATIONS	SHEET NO.	DESCRIPTION	STATIONS
45	ROADWAY, SIGN & PAVEMENT MARKING SHEET	1282+00.00 to 1296+00.00	54(21)	ITS & TOLLING PLAN SHEET	946+00.00 to 960+00.00
45C	EROSION AND SEDIMENT PLAN SHEET	1282+00.00 to 1296+00.00	54(22)	ITS & TOLLING PLAN SHEET	960+00.00 to 974+00.00
46	ROADWAY, SIGN & PAVEMENT MARKING SHEET	1296+00.00 to 1310+00.00	54(23)	ITS & TOLLING PLAN SHEET	974+00.00 to 988+00.00
46C	EROSION AND SEDIMENT PLAN SHEET	1296+00.00 to 1310+00.00	54(24)	ITS & TOLLING PLAN SHEET	988+00.00 to 1002+00.00
47	ROADWAY, SIGN & PAVEMENT MARKING SHEET	1310+00.00 to 1324+00.00	54(25)	ITS & TOLLING PLAN SHEET	1002+00.00 to 1016+00.00
47C	EROSION AND SEDIMENT PLAN SHEET	1310+00.00 to 1324+00.00	54(26)	ITS & TOLLING PLAN SHEET	1016+00.00 to 1030+00.00
48	ROADWAY SHEET	1324+00.00 to 1338+00.00	54(27)	ITS & TOLLING PLAN SHEET	1030+00.00 to 1044+00.00
48B	SIGN & PAVEMENT MARKING SHEET	1324+00.00 to 1338+00.00	54(28)	ITS & TOLLING PLAN SHEET	1044+00.00 to 1058+00.00
48C	EROSION AND SEDIMENT PLAN SHEET	1324+00.00 to 1338+00.00	54(29)	ITS & TOLLING PLAN SHEET	1058+00.00 to 1072+00.00
49	ROADWAY SHEET	1338+00.00 to 1352+00.00	54(30)	ITS & TOLLING PLAN SHEET	1072+00.00 to 1086+00.00
49A	PROFILE SHEET	1338+00.00 to 1352+00.00	54(31)	ITS & TOLLING PLAN SHEET	1086+00.00 to 1100+00.00
49B	SIGN & PAVEMENT MARKING SHEET	1338+00.00 to 1352+00.00	54(32)	ITS & TOLLING PLAN SHEET	1100+00.00 to 1114+00.00
49C	EROSION AND SEDIMENT PLAN SHEET	1338+00.00 to 1352+00.00	54(33)	ITS & TOLLING PLAN SHEET	1114+00.00 to 1128+00.00
50	ROADWAY SHEET	1352+00.00 to 1366+00.00	54(34)	ITS & TOLLING PLAN SHEET	1128+00.00 to 1142+00.00
50A(1)	PROFILE SHEET	1352+00.00 to 1366+00.00	54(35)	ITS & TOLLING PLAN SHEET	1142+00.00 to 1156+00.00
50A(2)	PROFILE SHEET - RAMPS C & D		54(36)	ITS & TOLLING PLAN SHEET	1156+00.00 to 1170+00.00
50B	SIGN & PAVEMENT MARKING SHEET	1352+00.00 to 1366+00.00	54(37)	ITS & TOLLING PLAN SHEET	1170+00.00 to 1184+00.00
50C	EROSION AND SEDIMENT PLAN SHEET	1352+00.00 to 1366+00.00	54(38)	ITS & TOLLING PLAN SHEET	1184+00.00 to 1198+00.00
51	ROADWAY SHEET	1366+00.00 to 1380+00.00	54(39)	ITS & TOLLING PLAN SHEET	1198+00.00 to 1212+00.00
51A	PROFILE SHEET	1366+00.00 to 1380+00.00	54(40)	ITS & TOLLING PLAN SHEET	1212+00.00 to 1226+00.00
51B	SIGN & PAVEMENT MARKING SHEET	1366+00.00 to 1380+00.00	54(41)	ITS & TOLLING PLAN SHEET	1226+00.00 to 1240+00.00
51C	EROSION AND SEDIMENT PLAN SHEET	1366+00.00 to 1380+00.00	54(42)	ITS & TOLLING PLAN SHEET	1240+00.00 to 1254+00.00
52	ROADWAY SHEET	1380+00.00 to 1394+00.00	54(43)	ITS & TOLLING PLAN SHEET	1254+00.00 to 1268+00.00
52A(1)	PROFILE SHEET	1380+00.00 to 1394+00.00	54(44)	ITS & TOLLING PLAN SHEET	1268+00.00 to 1282+00.00
52A(2)	PROFILE SHEET - RAMPS E, F, G & H		54(45)	ITS & TOLLING PLAN SHEET	1282+00.00 to 1296+00.00
52B	SIGN & PAVEMENT MARKING SHEET	1380+00.00 to 1394+00.00	54(46)	ITS & TOLLING PLAN SHEET	1296+00.00 to 1310+00.00
52C	EROSION AND SEDIMENT PLAN SHEET	1380+00.00 to 1394+00.00	54(47)	ITS & TOLLING PLAN SHEET	1310+00.00 to 1324+00.00
53	ROADWAY SHEET	1394+00.00 to 1402+91.69	54(48)	ITS & TOLLING PLAN SHEET	1324+00.00 to 1338+00.00
53A(1)	PROFILE SHEET	1394+00.00 to 1402+91.69	54(49)	ITS & TOLLING PLAN SHEET	1338+00.00 to 1352+00.00
53A(2)	PROFILE SHEET - RAMP I		54(50)	ITS & TOLLING PLAN SHEET	1352+00.00 to 1366+00.00
53B	SIGN & PAVEMENT MARKING SHEET	1394+00.00 to 1402+91.69	54(51)	ITS & TOLLING PLAN SHEET	1366+00.00 to 1380+00.00
53C	EROSION AND SEDIMENT PLAN SHEET	1394+00.00 to 1402+91.69	54(52)	ITS & TOLLING PLAN SHEET	1380+00.00 to 1394+00.00
54(1)	ITS & TOLLING GENERAL NOTES		54(53)	ITS & TOLLING PLAN SHEET	1394+00.00 to 1402+91.69
54(2)	ITS & TOLLING LEGEND		55(1)	LIGHTING SHEET LAYOUT	
54(3)	ITS & TOLLING PLAN SHEET	696+25.00 to 708+00.00	55(2)	LIGHTING GENERAL NOTES AND LEGEND	
54(4)	ITS & TOLLING PLAN SHEET	708+00.00 to 722+00.00	55(2A1) - 55(2A2)	LIGHT POLE SCHEDULE	
54(5)	ITS & TOLLING PLAN SHEET	722+00.00 to 736+00.00	55(2B)	LIGHTING TYPICAL POLE DETAILS	
54(6)	ITS & TOLLING PLAN SHEET	736+00.00 to 750+00.00	55(2C)	MEDIAN BARRIER JUNCTION BOX DETAIL	
54(7)	ITS & TOLLING PLAN SHEET	750+00.00 to 764+00.00	55(2D)	UNDERDECK LIGHTING DETAILS	
54(8)	ITS & TOLLING PLAN SHEET	764+00.00 to 778+00.00	55(2E)	UNDERDECK PANELBOARD SCHEDULE	
54(9)	ITS & TOLLING PLAN SHEET	778+00.00 to 792+00.00	55(3) - 55(28)	NOT USED	
54(10)	ITS & TOLLING PLAN SHEET	792+00.00 to 806+00.00	55(29)	LIGHTING PLAN SHEET	1058+00.00 to 1072+00.00
54(11)	ITS & TOLLING PLAN SHEET	806+00.00 to 820+00.00	55(29A)	LIGHTING SPLICE DETAIL	
54(12)	ITS & TOLLING PLAN SHEET	820+00.00 to 834+00.00	55(30)	LIGHTING PLAN SHEET	1072+00.00 to 1086+00.00
54(13)	ITS & TOLLING PLAN SHEET	834+00.00 to 848+00.00	55(31)	LIGHTING PLAN SHEET	1086+00.00 to 1100+00.00
54(14)	ITS & TOLLING PLAN SHEET	848+00.00 to 862+00.00	55(31A)	LIGHTING SPLICE DETAIL	
54(15)	ITS & TOLLING PLAN SHEET	862+00.00 to 876+00.00	55(32)	LIGHTING PLAN SHEET	1100+00.00 to 1114+00.00
54(16)	ITS & TOLLING PLAN SHEET	876+00.00 to 890+00.00	55(32A)	LIGHTING SPLICE DETAIL	
54(17)	ITS & TOLLING PLAN SHEET	890+00.00 to 904+00.00	55(33)	LIGHTING PLAN SHEET	1114+00.00 to 1128+00.00
54(18)	ITS & TOLLING PLAN SHEET	904+00.00 to 918+00.00	55(34)	LIGHTING PLAN SHEET	1128+00.00 to 1142+00.00
54(19)	ITS & TOLLING PLAN SHEET	918+00.00 to 932+00.00	55(34A)	LIGHTING SPLICE DETAIL	
54(20)	ITS & TOLLING PLAN SHEET	932+00.00 to 946+00.00	55(35)	LIGHTING PLAN SHEET	1142+00.00 to 1156+00.00

P.H. PLANS

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PROJECT MANAGER *Erin Foley, P.E. (757) 222-1500*
SURVEYED BY, DATE *Rhee Associates, Inc. (757) 306-4260*
DESIGN BY *HDB, Engineering, Inc.*
SUBSURFACE UTILITY BY, DATE *N/A*

INDEX OF SHEETS

REVISED	STATE	ROUTE	STATE	SHEET NO.
			PROJECT	
	VA.	64	0064-121-418, P101	1B(3)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

SHEET NO.	DESCRIPTION
55(35)A	LIGHTING SPLICE DETAIL
55(36)	NOT USED
55(37)	LIGHTING PLAN SHEET
55(38)	LIGHTING PLAN SHEET
55(38)A	LIGHTING SPLICE DETAIL
55(39)	LIGHTING PLAN SHEET
55(39)A	LIGHTING SPLICE DETAIL
55(40)	NOT USED
55(41)	LIGHTING PLAN SHEET
55(41)A	LIGHTING SPLICE DETAIL
55(42) - 55(43)	NOT USED
55(44)	LIGHTING PLAN SHEET
55(44)A	LIGHTING SPLICE DETAIL
55(45)	LIGHTING PLAN SHEET
55(45)A	LIGHTING SPLICE DETAIL
55(45)B	LIGHTING SPLICE DETAIL
55(45)C	LIGHTING SPLICE DETAIL
55(46)	LIGHTING PLAN SHEET
55(46)A	LIGHTING SPLICE DETAIL
55(46)B	LIGHTING SPLICE DETAIL
55(46)C	LIGHTING SPLICE DETAIL
55(47)	NOT USED
55(48)	LIGHTING PLAN SHEET
55(48)A	LIGHTING SPLICE DETAIL
55(49)	NOT USED
55(50)	LIGHTING PLAN SHEET
55(51)	NOT USED
55(52)	LIGHTING PLAN SHEET
55(53)	LIGHTING PLAN SHEET
55(53)A	LIGHTING SPLICE DETAIL
55(53)B	UNDERDECK LIGHTING PLAN SHEET

CROSS SECTIONS (See Sheet XI for Cross Section Index)

BRIDGE PLANS UNDER SEPARATE PLAN SET

P.H. PLANS

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PROJECT	SHEET NO.
0064-121-418	1B(3)

PROJECT MANAGER: *Erin Eoley, P.E. (757) 222-1500*
SURVEYED BY, DATE: *Rhee Associates, Inc. (757) 306-4260*
DESIGN BY: *HDB, Engineering, Inc.*
SUBSURFACE UTILITY BY, DATE: *N/A*

PROPERTY OWNERS

REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA.	64	0064-121-418, P101	1C(2)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

LEON CARMEN GLADYS RODRIQUEZ ROMERO FRANK PACHECO
Inst.* 200002241
0.23 AC.
PARCEL ID* 142000177

CECIL E. & BESSIE M PUGH
Inst.* 0013682245
0.24 AC.
PARCEL ID* 142000178

ANTHONY H. & MINERVA SMITH
Inst.* 200009887
0.32 AC.
Inst.* 0017591363
0.29 AC.
PARCEL ID* 142000180

MANUEL FERNANDEZ JR ET UX
Inst.* 1070008424
0.24 AC.
PARCEL ID* 142000181

GREGORY D HOPSON ET UX
Inst.* D080010837
0.24 AC.
PARCEL ID* 142000182

ORLANDO PLAZA LUZ E MENDEZ
Inst.* 0019241402
0.25 AC.
PARCEL ID* 142000183

WALEED SALEEM
Inst.* 170011624
0.27 AC.
PARCEL ID* 142000184

GLENN C & BECKY M. BUTORAC
Inst.* 160011423
0.27 AC.
PARCEL ID* 142000185

RANDY LYNN SIMONS ET UX
Inst.* 0010511541
0.28 AC.
PARCEL ID* 142000186

TIMOTHY MILLER EXECUTOR OF MARY ANN MILLER EST
Inst.* W080000162
0.28 AC.
PARCEL ID* 142000187

WILLIAM J. & DOLLY K. CLOONAN
Inst.* 0018561989
0.28 AC.
PARCEL ID* 142000188

KATRINA E. LYNCH
Inst.* D130016742
0.28 AC.
PARCEL ID* 142000189

LINDA L. BOUCHER
Inst.* 0015580593
0.28 AC.
PARCEL ID* 142000189

VICKY L. KEATON TRACILEIGH GRAY
Inst.* D070028946
0.28 AC.
PARCEL ID* 142000190

DAVID GREEN
Inst.* 200009887
0.32 AC.
Inst.* 0017591363
0.29 AC.
PARCEL ID* 142000201

KAYE N. PICKETT
Inst.* 200007318
0.4 AC.
PARCEL ID* 142000202

GLENN C. & MARTHA K. MAGNUSEN
Inst.* 200006339
0.43 AC.
PARCEL ID* 142000203

DAVID B. HARWOOD
Inst.* 0010540343
0.44 AC.
PARCEL ID* 142000209

SCOTT S. & VALERIE J. CLINE
Inst.* 0010810229
0.28 AC.
PARCEL ID* 142000210

CHARLES W. GREGORY UX
Inst.* 0009740001
0.56 AC.
PARCEL ID* 142000213

ROBERT V. & SUN CHA WALTERS
Inst.* 0015310305
0.42 AC.
PARCEL ID* 142000214

CLIFTON W. & MARGARET M. SHARP
Inst.* 001491943
0.35 AC.
PARCEL ID* 142000215

CHAD W. HAGER
Inst.* D130006810
0.32 AC.
PARCEL ID* 142000216

KINSEY LAURA HALL
Inst.* D130019898
0.27 AC.
PARCEL ID* 142000217

THOMAS D. & CHRISTINA R. BARHAM
Inst.* 140014172
0.28 AC.
PARCEL ID* 142000218

CHANDRASIRI DAMBADENIYA & ANA MARIA VALDERRAMA
Inst.* 0017550745
0.26 AC.
PARCEL ID* 142000219

KATIE A. GRAHAM
Inst.* 150012609
0.27 AC.
PARCEL ID* 142000220

JOEL R. FORTUNE
Inst.* 0015730707
0.31 AC.
PARCEL ID* 142000221

ANDREW J. WHITE SR EXEC OF DUNGEE M E WHITE EST
Inst.* W070000441
0.38 AC.
PARCEL ID* 142000222

GERALD S. HARDY
Inst.* 0011610882
0.37 AC.
PARCEL ID* 142000223

SHERRY L. BOWEN ET VIR
Inst.* 0016330121
0.29 AC.
PARCEL ID* 143000309

JULIE A. BARBOUR
Inst.* 160011655
0.2 AC.
PARCEL ID* 143000310

LESLIE W. & GIMMY L. PARNACOTT
Inst.* 0014051269
0.23 AC.
PARCEL ID* 143000311

BARRY F. & SHARON CRAFT
Inst.* 0013760588
0.27 AC.
PARCEL ID* 143000312

THOMAS ALAN MORGAN
Inst.* 200009365
0.30 AC.
PARCEL ID* 143000313

MARY CATHERINE COLBERT
Inst.* D090004986
0.61 AC.
PARCEL ID* 164000117

BETTY C. CHAMPION & LINDA M WALTERS
Inst.* 0.40
0.28 AC.
PARCEL ID* 164000103

BETTY C. CHAMPION & LINDA M WALTERS
Inst.* WB02351929
0.36 AC.
PARCEL ID* 164000104

RONALD R. CRITES
Inst.* 0015510965
0.38 AC.
PARCEL ID* 164000105

THOMAS H. PASCHAL TRUSTEE THOMAS H. PASCHAL LIVING TRUST
Inst.* 150014333
0.53 AC.
PARCEL ID* 164000106

KAWAN J. PRESSEY
Inst.* 190013810
0.41 AC.
PARCEL ID* 164000107

SANDRA & MARK OWEN FRAZER
Inst.* 0020402135
0.45 AC.
PARCEL ID* 164000108

JAMES L. & NORMA R. MITCHELL
Inst.* 0011940452
0.5 AC.
PARCEL ID* 164000109

THOMAS H. PASCHAL TRUSTEE ET ALS THOMAS H PASCHAL LIVING TRUST
Inst.* 150015247
0.53 AC.
PARCEL ID* 164000110

WILLIAM T. WHARTON III & AARON C. WHARTON
Inst.* D130012158
0.55 AC.
PARCEL ID* 164000111

PHYLLIS R. KIRTS
Inst.* W070001163
0.57 AC.
PARCEL ID* 164000112

GREGORY WILLIAMS
Inst.* 0019501850
0.73 AC.
PARCEL ID* 164000113

RONNIE L. CRUM
Inst.* 0012600289
0.83 AC.
PARCEL ID* 164000114

DAVID E. ZELINSKI
Inst.* D110005599
0.4 AC.
PARCEL ID* 197000313

THOMAS C. SULESKI
Inst.* 0010760329
0.27 AC.
PARCEL ID* 197000314

TONY D. LANKFORD
Inst.* 0014532033
0.2 AC.
PARCEL ID* 197000427

MTGLQ INVESTORS LP
Inst.* 200013123
0.22 AC.
PARCEL ID* 197000428

ROBBY P. FORTIER
Inst.* 150012052
0.31 AC.
PARCEL ID* 197000429

DAWAYNE V. KEEFER JR
Inst.* 0020300197
0.29 AC.
PARCEL ID* 197000430

ADAM & KIMISHA FIGUEROA
Inst.* 180001368
0.21 AC.
PARCEL ID* 197000431

CHARLES E. & ESTELLE M. GILLIAM
Inst.* 0010641926
0.21 AC.
PARCEL ID* 197000432

FRANK FARZANEH & CASSANDRA NIEVES SORIANO
Inst.* 200005048
0.21 AC.
PARCEL ID* 197000433

CHARLES M. SR & FLORENCE D. WILLIAMS
Inst.* 0012852049
0.27 AC.
PARCEL ID* 197000434

ALQUAN R. & RITA M. COAR
Inst.* 190000863
0.25 AC.
PARCEL ID* 197000435

PAT J. & NELL L. KEONACORN
Inst.* 0014460140
0.25 AC.
PARCEL ID* 197000437

HEATHER SMITH
Inst.* D120021631
0.27 AC.
PARCEL ID* 197000438

BENJI L. SAGER
Inst.* 0017610890
0.25 AC.
PARCEL ID* 197000439

KENNETH EARL RAINEY
Inst.* D120017148
0.22 AC.
PARCEL ID* 197000440

ROBERT E. JR & BEVERLY E. MALONE
Inst.* 180009206
0.20 AC.
PARCEL ID* 207000201

ANDREW J. & LYNETTE B. MIZELL
Inst.* 0019680638
0.21 AC.
PARCEL ID* 207000202

EDWARD L. HAMN JR
Inst.* 0008560507
0.18 AC.
PARCEL ID* 207000203

KENNETH D. & ANGELA G. LEWIS
Inst.* 0015750214
0.18 AC.
PARCEL ID* 207000204

JASSALINE DUANNE HEMBY NEWKIRK GRANVILLE HERSCHEL III
Inst.* 2000000091
0.19 AC.
PARCEL ID* 207000205

MICHELINE P. J. RIOS
Inst.* 0019581664
0.21 AC.
PARCEL ID* 207000206

ROYSTAN TATE MELISSA SCARLETT
Inst.* 200002531
0.21 AC.
PARCEL ID* 207000207

JOSEPH WILLIAM & ELIZABETH W WETZLER
Inst.* D090018668
0.25 AC.
PARCEL ID* 207000208

WILLIAM T. & CHRISTINA P. ADKISSON
Inst.* D110016159
0.28 AC.
PARCEL ID* 207000209

JOHN C. & KATHY D. WHITMORE
Inst.* D080022480
0.34 AC.
PARCEL ID* 207000210

ROBERT L. & NANCY J. GLOVER
Inst.* 0016410014
0.30 AC.
PARCEL ID* 207000212

DERRICK BRIGHAM
Inst.* 180009206
0.32 AC.
PARCEL ID* 207000213

DAVID L. & DONNA J. CRAFT TRS
Inst.* D120003984
0.33 AC.
PARCEL ID* 207000214

CITY OF NEWPORT NEWS
Inst.* NO DATA
19.97 AC.
PARCEL ID* 198000109

MICHAEL WINSTON TURNER
Inst.* 0011452104
0.39 AC.
PARCEL ID* 206001129

ROBERT J. & JUNIPER S. MORENO
Inst.* 0019751925
0.25 AC.
PARCEL ID* 206001130

AARON CHRISTIAN DOWDY
Inst.* 0019581664
0.2 AC.
PARCEL ID* 206001131

RAYMOND SKYE & KATLIN E. ELLER
Inst.* 180014876
0.29 AC.
PARCEL ID* 206001106

CHAD J. VAILLANCOURT
Inst.* 150017090
0.24 AC.
PARCEL ID* 206001107

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROJECT MANAGER: *Erin Ealey, P.E. (757) 222-1500*
SURVEYED BY, DATE: *Rhee Associates, Inc. (757) 306-4260*
DESIGN BY: *HDB, Engineer Inc.*
SUBSURFACE UTILITY BY, DATE: *N/A*

PROPERTY OWNERS

REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA.	64	0064-121-418, P101	1C(3)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

<p>PHYLIS B. PHIPPS Inst.* D120016723 0.23 AC. PARCEL ID* 206001108</p> <p>KRISTY L. HOPKINS Inst.* D110003605 0.19 AC. PARCEL ID* 206001109</p> <p>CHRISTOPHER A. & CYNTHIA R. STANLEY Inst.* 001191386 0.20 AC. PARCEL ID* 206001110</p> <p>PAUL R. & SARA SALISBURY Inst.* D080006642 0.29 AC. PARCEL ID* 206001111</p> <p>R BILLY THOMAS ET UX Inst.* 001151485 0.57 AC. PARCEL ID* 206001112</p> <p>RODRIGO ROJAS Inst.* D140003626 0.33 AC. PARCEL ID* 206000423</p> <p>BILLY BELL Inst.* 150010819 0.29 AC. PARCEL ID* 206000405</p> <p>MICHELE K. SOUTHCOMBE Inst.* 0021311242 0.27 AC. PARCEL ID* 206000406</p> <p>ELLEN M. SMITH Inst.* 140000450 0.19 AC. PARCEL ID* 207000101</p> <p>MARKAY LYNN WOLVERTON Inst.* 180003858 0.21 AC. PARCEL ID* 207000102</p> <p>OMAR K. & AMBER L. ALGBURI Inst.* 150014147 0.17 AC. PARCEL ID* 207000103</p> <p>LOU ANN CROWSON TR Inst.* 1900122227 0.17 AC. PARCEL ID* 207000104</p>	<p>THOMAS L. BOUNT & CYNTHIA E. CHAVIS Inst.* 0015800671 0.21 AC. PARCEL ID* 207000105</p> <p>VIRGINIA IRENE NIX Inst.* 0018550022 0.17 AC. PARCEL ID* 207000106</p> <p>JOSEPH R. & JAMI S. SALVIO Inst.* 0020362129 0.17 AC. PARCEL ID* 207000107</p> <p>DAM VAN LAM Inst.* 180013914 0.24 AC. PARCEL ID* 207000108</p> <p>CASHANNA L. & CHRISTOPHER C. LONG Doc.* 200006721 0.27 AC. PARCEL ID* 13004888</p> <p>SHANNON J. & MARISSA L. GREENE Doc.* 200007428 0.33 AC. PARCEL ID* 13004889</p> <p>JASON T. SCOTT Doc.* 200011263 0.27 AC. PARCEL ID* 13004890</p> <p>ANTHONY P. & DENISE A. TOBIN Doc.* 030032139 0.17 AC. PARCEL ID* 4004454</p> <p>ANTONIO M. MCKOY Doc.* 160001101 0.17 AC. PARCEL ID* 4004453</p> <p>JOSE G. TANGCO Doc.* 09981778 0.17 AC. PARCEL ID* 4004480</p> <p>CHARLOTTE M. FLORES Doc.* 160000098 0.15 AC. PARCEL ID* 4004479</p> <p>ZANDRIA M. BUTTS Doc.* 170008817 0.14 AC.(Deeded Acreage) PARCEL ID* 4004478</p>	<p>KEITH A. REED Doc.* 020024350 0.15 AC.(Deeded Acreage) PARCEL ID* 4004477</p> <p>MERON TEKLEBERHAN ETAL Doc.* 050024365 0.16 AC. PARCEL ID* 4004475</p> <p>NOEL HERNANDEZ Doc.* 160003115 0.27 AC. PARCEL ID* 4004476</p> <p>LEONARD E. & SONYA W. POSLIK DB 1043 PG 0543 0.43 AC. PARCEL ID* 4002986</p> <p>DAVID JOHNSON Doc.* 130016166 0.29 AC. PARCEL ID* 4002987</p> <p>ANTHONY W. & LISA W. DESHONG Doc.* 040023372 0.72 AC. PARCEL ID* 4002988</p> <p>FLORA J. RANDALL DB 1299 PG 1170 0.42 AC. TAX MAP* 4002716</p> <p>JAMICIA L. DAVIS Doc.* 090007257 0.37 AC. PARCEL ID* 4002717</p> <p>MARGARET C. SMITH Doc.* 070018687 0.39 AC. PARCEL ID* 4002723</p> <p>ALVA DANITA BRIGNONI Doc.* 140010646 0.23 AC. PARCEL ID* 4002724</p> <p>LELAND K. & JULIA M. JUDKINS DB 1363 PG 0923 0.37 AC. PARCEL ID* 4002718</p> <p>LAWRENCE F. & EVA M. SMITH Doc.* 040020312 0.2 AC. PARCEL ID* 4002717</p>	<p>JAVIER E. MURILLO Doc.* 170014363 0.29 AC.(Deeded Acreage) PARCEL ID* 4002172</p> <p>TRACY L.TART Doc.* 090009214 0.17 AC.(Deeded Acreage) PARCEL ID* 4002173</p> <p>DEBORAH KAYLE EDWARDS Doc.* 200007768 0.26 AC.(Deeded Acreage) PARCEL ID* 4002174</p> <p>MICHEL A. BEAMAN Doc.* 170006869 0.29 AC. PARCEL ID* 4002162</p> <p>CURTIS H. SMITH DB 1026 PG 0102 0.3 AC. PARCEL ID* 4002163</p> <p>JOHN E. & CATHERINE C. BAKER DB 0486 PG 0754 0.3 AC. PARCEL ID* 4002164</p> <p>BESSIE M. PARKER DB 0901 PG 0765 0.3 AC. PARCEL ID* 4002165</p> <p>ROSE HUGHES Doc.* 130013786 0.3 AC. PARCEL ID* 4002166</p> <p>WILLIAM E. JOBST DB 1085 PG 0317 0.26 AC. PARCEL ID* 4002167</p> <p>RICHARD W. MCVEY Doc.* 050003009 0.26 AC. PARCEL ID* 4002168</p> <p>VERONICA L. ROYAL Doc.* 170006526 1.86 AC.(Deeded Acreage) PARCEL ID* 2004053</p> <p>JERRIS O EALY DB 1366 PG 897 1.91 AC.(Deeded Acreage) PARCEL ID* 2004054</p>	<p>KEITH R & PORTIA M WHITE Doc.* 170005800 1.29 AC.(Deeded Acreage) PARCEL ID* 2004055</p> <p>TIFFANY RICHARDS & RASHAD K JOYNER Doc.* 120008521 0.83 AC.(Deeded Acreage) PARCEL ID* 2004056</p> <p>DERICK LEVELL & LATRES L JOHNSON DB 1375 PG 883 0.79 AC.(Deeded Acreage) PARCEL ID* 2004057</p> <p>CHRISTOPHER K & SHEILA D JOHNSON Doc.* 030029840 0.76 AC.(Deeded Acreage) PARCEL ID* 2004058</p> <p>KEVIN M & VANESSA GASKIN Doc.* 040024267 0.73 AC.(Deeded Acreage) PARCEL ID* 2004059</p> <p>DERRICK G MOORE Doc.* 010012147 0.90 AC.(Deeded Acreage) PARCEL ID* 2004060</p> <p>CARLTON O DAVIS Doc.* 070008230 0.69 AC.(Deeded Acreage) PARCEL ID* 2004061</p> <p>SHEREE SAVAGE-ARTIS Doc.* 100003651 0.68 AC.(Deeded Acreage) PARCEL ID* 2004062</p> <p>DANIEL COLBERT WHITE & LESLIE BANKS Doc.* 030008139 0.66 AC.(Deeded Acreage) PARCEL ID* 2004063</p> <p>EDWARD & TINA L FUTCH DB 1364 PG 1529 0.65 AC.(Deeded Acreage) PARCEL ID* 2004064</p> <p>WILLIAM A MINES ETAL Doc.* 010011153 0.64 AC.(Deeded Acreage) PARCEL ID* 2004065</p> <p>EVETTE SMALLS & WILLIAM W COOPER DB 1374 PG 1127 0.63 AC.(Deeded Acreage) PARCEL ID* 2004066</p>	<p>MICHAEL D & JAYNE C ALEXANDER DB 1360 PG 1268 1.26 AC.(Deeded Acreage) PARCEL ID* 2004067</p> <p>RANDY L & LORI S GARDNER DB 1374 PG 1163 1.62 AC.(Deeded Acreage) PARCEL ID* 2004068</p> <p>FRANK I & DARLENE C RODRIGUES DB 1372 PG 1448 3.0 AC.(Deeded Acreage) PARCEL ID* 2004069</p> <p>SHIRLEY G WINDER DB 352 PG 372 0.23 AC. PARCEL ID* 8000280</p> <p>RENEE SYKES Doc.* 0700022996 0.2 AC. PARCEL ID* 8000279</p> <p>STATEWIDE INC C/O COZY HOMES MGT LLC Doc.* 080019088 0.19 AC. PARCEL ID* 8000278</p> <p>GRADY L & BARBARA A BUNCH Doc.* 020024834 0.17 AC.(Deeded Acreage) PARCEL ID* 8000277</p> <p>JULIAN R WILLIAMS DB 511 PG 166 0.15 AC. PARCEL ID* 8000276</p> <p>HENRY L ALBRITTON DB 664 PG 235 0.14 AC. PARCEL ID* 8000275</p> <p>WILLIAM J BARNES JR ET UX DB 372 PG 585 0.15 AC. PARCEL ID* 8000274</p> <p>NATHANIEL MCMILLAN DB 418 PG 488 0.15 AC. PARCEL ID* 8000273</p>	<p>JEFFREY B & SANDRA JEAN CORBIN DB 458 PG 813 0.17 AC. PARCEL ID* 8000272</p> <p>CARLOS C COMBS JR Doc.* 080017808 0.18 AC.(Deeded Acreage) PARCEL ID* 8000271</p> <p>CHARLES A REYNOLDS DB 1222 PG 2214 0.18 AC. PARCEL ID* 8000269</p> <p>KERRY & TAMIKA TAYLOR Doc.* 190008504 0.27 AC.(Deeded Acreage) PARCEL ID* 13002987</p> <p>JASON JONES & BREA WATKINS-JONES Doc.* 190001254 0.25 AC.(Deeded Acreage) PARCEL ID* 8000230</p> <p>KEVIN TUCKER Doc.* 060012286 0.16 AC. PARCEL ID* 8000202</p> <p>JOHN H STEVENSON JR DB 1193 PG 421 0.07 AC. PARCEL ID* 8000203</p> <p>JOHN H STEVENSON JR Doc.* 120013962 0.05 AC. PARCEL ID* 8000204</p> <p>BARBARA A MARTIN DB 337 PG 195 0.26 AC.(Deeded Acreage) PARCEL ID* 8000042</p> <p>DEBRA C S CORBIN Doc.* 040006592 0.13 AC.(Deeded Acreage) PARCEL ID* 8000052</p>
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P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDB, Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: N/A

PROPERTY OWNERS

REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA.	64	0064-121-418, P101	IC(4)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

H343
CARLOS THOMPSON SR & ROSA THOMPSON
Doc.* 08000151
0.07 AC. (Deeded Acreage)
PARCEL ID* 8000111

H371
COMMONWEALTH OF VIRGINIA
DB 537 PG 796
0.08 AC.
PARCEL ID* 8000117

H327
SALLY GROOME POWELL TR
No Reference Given
0.49 AC. (Deeded Acreage)
PARCEL ID* 13004594

H344
C & C REAL EST PROP MANAGEMENT LLC
Doc.* 09000797
0.13 AC. (Deeded Acreage)
PARCEL ID* 8000118

H316
POWELLS HOLDING LLC
Doc.* 18000949
0.25 AC. (Deeded Acreage)
PARCEL ID* 8000228

H328
BRANSCOME INC
DB 1357 PG 1000
9.42 AC. (Deeded Acreage)
PARCEL ID* 8000820

H345
C&C REAL ESTATE PROPERTY MGT LLC
Doc.* 130013449
0.19 AC. (Deeded Acreage)
PARCEL ID* 8000128

H317
C & C REAL ESTATE PROPERTY MANAGEMENT LLC
Doc.* 160007099
0.13 AC. (Deeded Acreage)
PARCEL ID* 8000227

H329
TITAN VIRGINIA READY-MIX LLC
Doc.* 040006485
0.6 AC. (Deeded Acreage)
PARCEL ID* 13000941

H346
LIN Y LEUNG
Doc.* 030013619
0.26 AC. (Deeded Acreage)
PARCEL ID* 8000171

H318
GRAHAM ASSOCIATES LC C/O TERRI GRAHAM
DB 1191 PG 1132
0.05 AC. (Deeded Acreage)
PARCEL ID* 8000228

H364
GRAHAM ASSOCIATES LC C/O TERRI GRAHAM WALLACE
DB 1191 PG 1132
0.31 AC. (Deeded Acreage)
PARCEL ID* 8000209

H347
JOSEPHINE R BARKERS
Doc.* 170010538
0.24 AC. (Deeded Acreage)
PARCEL ID* 8000170

H319
KAREN E RIDLEY
Doc.* 090004559
0.11 AC. (Deeded Acreage)
PARCEL ID* 8000208

H365
GRAHAM ASSOCIATES LC C/O TERRI GRAHAM WALLACE
DB 1191 PG 1132
0.15 AC. (Deeded Acreage)
PARCEL ID* 8000206

H348
RHONDA Y DIXON ETAL
DB 691 PG 24
0.14 AC. (Deeded Acreage)
PARCEL ID* 8000186

H320
CHANCELLOR MEDIA WHITECO OUTDR CORP C/O TLC PROPERTIES
DB 1271 PG 1657
0.27 AC. (Deeded Acreage)
PARCEL ID* 8000032

H366
GRAHAM ASSOCIATES LC C/O TERRI GRAHAM WALLACE
DB 1191 PG 1132
0.09 AC. (Deeded Acreage)
PARCEL ID* 8000207

H349
ZEM TEMPLE NO 122
DB 375 PG 373
0.44 AC. (Deeded Acreage)
PARCEL ID* 8000173

H321
DANIEL MCQUILLEN WILSON
Doc.* 150000108
0.2 AC. (Deeded Acreage)
PARCEL ID* 8000040

H367
TITAN VIRGINIA READY-MIX LLC
Doc.* 040006485
5.38 AC. (Deeded Acreage)
PARCEL ID* 8000819

H350
DAVID C ROSSER JR TR C/O DAVID C ROSSER III
Doc.* 090004020
0.16 AC.
PARCEL ID* 8000811

H322
APOSTOLIS & LOUISA VELISSARIOS
Doc.* 180009074
0.13 AC.
PARCEL ID* 8000101

H368
LEONARD H POWELL ET AL
DB 560 PG 796
0.24 AC. (Deeded Acreage)
PARCEL ID* 8000222

H351
C & C REAL ESTATE PROPERTY MANAGEMENT LLC
Doc.* 120017598
0.14 AC. (Deeded Acreage)
PARCEL ID* 8000808

H323
LOUIS R PROPHETE
Doc.* 040007157
0.09 AC. (Deeded Acreage)
PARCEL ID* 8000115

H352
ROBERT & NORMA MAKER
DB 1284 PG 1118
0.17 AC. (Deeded Acreage)
PARCEL ID* 8000809

H324
ADAMS OUTDOOR LTD PARTENSHIP
DB 761 PG 829
0.14 AC. (Deeded Acreage)
PARCEL ID* 8000165

H369
DAVID C ROSSER JR TR C/O DAVID C ROSSER III
Doc.* 090004029
0.09 AC.
PARCEL ID* 8000810

H325
PATRICIA WILSON JOHNSON
Doc.* 150000108
0.16 AC. (Deeded Acreage)
PARCEL ID* 8000166

H370
COMMONWEALTH OF VIRGINIA
DB 536 PG 766
0.1 AC. (Deeded Acreage)
PARCEL ID* 8000110

H326
LENA L WALKER
DB 1081 PG 255
0.23 AC. (Deeded Acreage)
PARCEL ID* 8000162

P.H. PLANS

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PROJECT MANAGER: Erin Foley, P.E. (757) 222-1500
SURVEYED BY: DATE: Rhee Associates, Inc. (757) 306-9260
DESIGN BY: HDR, Inc. (757) 306-9260
SUBSURFACE UTILITY BY: DATE: MZA

ALIGNMENT DATA SHEET

Chain 164EB contains:
EB6400I CUR 164EB1 CUR 164EB2 CUR 164EB3 CUR 164EB4 CUR 164EB5 CUR 164EB6 CUR 164EB7 CUR 164EB8 CUR 164EB9 CUR 164EB10 CUR 164EB11 CUR 164EB12 CUR 164EB13 CUR 164EB14 CUR 164EB15 CUR 164EB16 CUR 164EB17 CUR 164EB18 CUR 164EB19

Beginning chain 164EB description
Point EB6400I N 3.584677,6803 E 12.055260,832 Sta 694+00.00
Course from EB6400I to PC 164EB1 S 24°18'12.65" E Dist 2,453.2800

Curve Data
Curve 164EB1
P.I. Station 736+87.46 N 3.580770,821 E 12.057024,7748
Delta 9°09'34.15" (LT)
Degree 0°15'00.80"
Tangent 1,834,815
Length 3,660,547
Radius 23,898,000
External 23,898,000
Long Chord 3,656,650
Mid.Ord. 73,094
P.C. Station 718+53.28 N 3.582441,8148 E 12.056269,8803
P.T. Station 759+13.83 N 3.579240,8307 E 12.058036,1395
C.C. 730+94
Back S 24°18'12.65" E 3,579,240.8307
Ahead S 33°27'46.80" E 3,582,441.8148
Chord Bear S 28°52'59.72" E 12.077138,6146

Curve Data
Curve 164EB2
P.I. Station 833+45.20 N 3.572706,7667 E 12.062354,3478
Delta 44°56'06.51" (LT)
Degree 1°03'39.14"
Tangent 2,233,714
Length 4,235,037
Radius 5,400,000
External 443,549
Long Chord 4,127,330
Mid.Ord. 409,827
P.C. Station 811+20.03 N 3.574569,7739 E 12.061122,9797
P.T. Station 853+47.07 N 3.572257,6540 E 12.064541,8946
C.C. 832+33.55
Back S 33°27'46.80" E 3,574,569.7739
Ahead S 78°23'53.31" E 3,572,257.6540
Chord Bear S 55°55'50.06" E 12.065627,8869

Curve Data
Curve 164EB3
P.I. Station 921+38.65 N 3.570891,8007 E 12.071947,7175
Delta 26°41'15.15" (RT)
Degree 0°36'16.94"
Tangent 2,247,439
Length 4,413,371
Radius 9,475,000
External 262,895
Long Chord 4,373,529
Mid.Ord. 255,798
P.C. Station 898+91.21 N 3.571343,7825 E 12.068993,1963
P.T. Station 940+27.82 N 3.569499,2114 E 12.072958,7124
C.C. 919+09.51
Back S 78°23'53.31" E 3,569,499.2114
Ahead S 51°42'38.17" E 3,571,343.7825
Chord Bear S 65°03'15.74" E 12.067087,6820

Curve Data
Curve 164EB4
P.I. Station 945+87.43 N 3.569323,9187 E 12.073180,7558
Delta 3°16'21.45" (RT)
Degree 0°34'42.85"
Tangent 282,897
Length 565,798
Radius 9,903,000
External 40,399
Long Chord 565,563
Mid.Ord. 4,038
P.C. Station 943+04.53 N 3.569499,2114 E 12.072958,7124
P.T. Station 948+70.17 N 3.569136,2362 E 12.073392,4302
C.C. 945+87.43
Back S 51°42'38.17" E 3,569,136.2362
Ahead S 48°26'16.77" E 3,569,323.9187
Chord Bear S 50°04'27.44" E 12.066822,4788

Curve Data
Curve 164EB5
P.I. Station 965+31.56 N 3.568034,0224 E 12.074635,5420
Delta 19°55'17.97" (RT)
Degree 0°36'20.39"
Tangent 1,861,956
Length 3,689,282
Radius 9,460,000
External 144,782
Long Chord 3,672,685
Mid.Ord. 142,597
P.C. Station 948+70.17 N 3.569499,2114 E 12.072958,7124
P.T. Station 981+59.40 N 3.566574,1942 E 12.075428,7025
C.C. 965+31.56
Back S 48°26'16.77" E 3,566,574.1942
Ahead S 28°30'58.74" E 3,568,034.0224
Chord Bear S 38°28'37.73" E 12.067116,3784

Curve Data
Curve 164EB6
P.I. Station 983+06.57 N 3.566444,8783 E 12.075498,9629
Delta 1°41'44.34" (RT)
Degree 0°34'34.06"
Tangent 147,170
Length 294,393
Radius 9,944,999
External 1,089
Long Chord 294,308
Mid.Ord. 1,089
P.C. Station 981+59.40 N 3.566574,1942 E 12.075428,7025
P.T. Station 984+53.72 N 3.566315,5401 E 12.075565,3661
C.C. 983+06.57
Back S 28°30'58.74" E 3,566,315.5401
Ahead S 28°49'14.40" E 3,566,444.8783
Chord Bear S 27°40'06.57" E 12.066890,2181

Course from PT 164EB6 to PC 164EB7 S 26°32'38.82" E Dist 652.2955

Curve Data
Curve 164EB7
P.I. Station 1004+127.7 N 3.564560,9893 E 12.076440,8413
Delta 13°00'37.53" (LT)
Degree 0°29'59.87"
Tangent 1,306,758
Length 2,602,276
Radius 11,460,000
External 14,262
Long Chord 2,596,689
Mid.Ord. 73,746
P.C. Station 991+06.01 N 3.565730,0027 E 12.075856,8684
P.T. Station 1017+08.29 N 3.563553,4543 E 12.077273,0011
C.C. 1004+127.7
Back S 26°32'38.82" E 3,563,553.4543
Ahead S 39°33'16.35" E 3,564,560.9893
Chord Bear S 33°02'57.59" E 12.066108,8758

Curve Data
Curve 164EB8
P.I. Station 1054+15.89 N 3.560694,8257 E 12.079634,0466
Delta 0°44'53.00" (LT)
Degree 0°15'35.44"
Tangent 1,439,451
Length 2,877,860
Radius 22,050,000
External 0.4698
Long Chord 2,877,840
Mid.Ord. 0.4698
P.C. Station 1052+71.94 N 3.560805,8100 E 12.079542,3806
P.T. Station 1055+59.83 N 3.560585,0475 E 12.079727,1538
C.C. 1054+15.89
Back S 39°33'16.35" E 3,560,585.0475
Ahead S 40°18'09.35" E 3,560,805.8100
Chord Bear S 39°55'42.85" E 12.096543,3437

Curve Data
Curve 164EB9
P.I. Station 1089+22.33 N 3.558020,6727 E 12.081902,1018
Delta 15°13'14.37" (LT)
Degree 0°29'45.84"
Tangent 1,543,215
Length 3,086,528
Radius 11,590,000
External 102,640
Long Chord 3,059,248
Mid.Ord. 101,736
P.C. Station 1073+79.11 N 3.559197,5905 E 12.080903,9111
P.T. Station 1104+47.38 N 3.557147,1008 E 12.083174,2623
C.C. 1089+22.33
Back S 40°18'09.35" E 3,557,147.1008
Ahead S 55°31'23.69" E 3,558,020.6727
Chord Bear S 47°54'46.52" E 12.089712,3915

Curve Data
Curve 164EB10
P.I. Station 1157+58.25 N 3.554140,7658 E 12.087552,3114
Delta 4°02'13.49" (RT)
Degree 0°19'15.55"
Tangent 629,190
Length 1,257,775
Radius 17,850,000
External 11,083
Long Chord 1,257,457
Mid.Ord. 11,083
P.C. Station 1151+29.13 N 3.554496,8924 E 12.087033,6934
P.T. Station 1163+86.85 N 3.553749,0112 E 12.088044,5705
C.C. 1157+58.25
Back S 55°31'23.69" E 3,553,749.0112
Ahead S 51°29'10.20" E 3,554,140.7658
Chord Bear S 53°30'16.95" E 12.076929,3119

Curve Data
Curve 164EB11
P.I. Station 1229+48.31 N 3.549663,1639 E 12.093178,6398
Delta 8°59'59.75" (RT)
Degree 0°14'56.80"
Tangent 1,810,251
Length 3,620,804
Radius 23,000,000
External 71,199
Long Chord 3,609,090
Mid.Ord. 70,902
P.C. Station 1211+38.19 N 3.550790,3353 E 12.091762,2932
P.T. Station 1247+50.99 N 3.548328,3060 E 12.094401,2220
C.C. 1229+48.31
Back S 51°29'10.20" E 3,548,328.3060
Ahead S 42°29'10.45" E 3,549,663.1639
Chord Bear S 46°59'10.33" E 12.077440,1113

Curve Data
Curve 164EB12
P.I. Station 1315+67.97 N 3.543282,0362 E 12.098984,4963
Delta 25°26'59.34" (LT)
Degree 0°44'50.04"
Tangent 1,726,367
Length 3,395,779
Radius 7,645,000
External 192,497
Long Chord 3,367,932
Mid.Ord. 187,168
P.C. Station 1288+41.60 N 3.544559,9797 E 12.097823,8042
P.T. Station 1332+37.38 N 3.542626,8748 E 12.100581,7155
C.C. 1315+67.97
Back S 42°14'50.27" E 3,542,626.8748
Ahead S 67°41'49.67" E 3,543,282.0362
Chord Bear S 54°58'19.94" E 12.103483,0142

Curve Data
Curve 164EB13
P.I. Station 1336+12.82 N 3.542484,3959 E 12.100929,0652
Delta 5°02'57.12" (LT)
Degree 0°40'22.37"
Tangent 375,435
Length 750,870
Radius 8,950,000
External 8,272
Long Chord 750,128
Mid.Ord. 8,266
P.C. Station 1332+37.38 N 3.542626,8748 E 12.100581,7155
P.T. Station 1339+87.77 N 3.542373,0405 E 12.101287,6067
C.C. 1336+12.82
Back S 67°41'49.67" E 3,542,373.0405
Ahead S 72°44'46.72" E 3,542,484.3959
Chord Bear S 70°13'18.16" E 12.103813,1817

Curve Data
Curve 164EB14
P.I. Station 1342+07.57 N 3.542307,8474 E 12.101497,5150
Delta 2°21'47.95" (LT)
Degree 0°32'15.67"
Tangent 219,799
Length 439,598
Radius 10,656,000
External 2,266
Long Chord 439,504
Mid.Ord. 2,266
P.C. Station 1339+87.77 N 3.542373,0405 E 12.101287,6067
P.T. Station 1344+57.31 N 3.542251,3656 E 12.101709,9330
C.C. 1342+07.57
Back S 72°44'46.72" E 3,542,251.3656
Ahead S 75°06'34.87" E 3,542,307.8474
Chord Bear S 73°55'40.70" E 12.104448,2113

Curve Data
Curve 164EB15
P.I. Station 1345+98.08 N 3.542207,4810 E 12.101874,9750
Delta 4°36'27.16" (LT)
Degree 0°43'30.95"
Tangent 170,768
Length 341,536
Radius 4,245,000
External 3,438
Long Chord 341,275
Mid.Ord. 3,438
P.C. Station 1344+57.31 N 3.542251,3656 E 12.101709,9330
P.T. Station 1347+58.67 N 3.542176,9961 E 12.102043,0088
C.C. 1345+98.08
Back S 75°06'34.87" E 3,542,176.9961
Ahead S 79°43'01.83" E 3,542,207.4810
Chord Bear S 77°24'48.25" E 12.102800,7722

Curve Data
Curve 164EB16
P.I. Station 1357+15.43 N 3.542007,9932 E 12.102974,5595
Delta 13°40'03.98" (LT)
Degree 0°43'30.95"
Tangent 946,759
Length 1,893,518
Radius 7,900,000
External 56,528
Long Chord 1,880,060
Mid.Ord. 56,528
P.C. Station 1347+58.67 N 3.542176,9961 E 12.102043,0088
P.T. Station 1366+53.20 N 3.542063,8936 E 12.102043,0088
C.C. 1357+15.43
Back S 79°43'01.83" E 3,542,063.8936
Ahead S 85°36'54.19" E 3,542,007.9932
Chord Bear S 86°33'03.82" E 12.103453,2162

Curve Data
Curve 164EB17
P.I. Station 1374+15.67 N 3.542108,9130 E 12.104680,8059
Delta 11°19'03.17" (LT)
Degree 0°44'40.50"
Tangent 762,475
Length 1,519,984
Radius 7,695,000
External 37,631
Long Chord 1,517,516
Mid.Ord. 37,495
P.C. Station 1366+53.20 N 3.542063,8936 E 12.102043,0088
P.T. Station 1381+73.18 N 3.542302,4283 E 12.105418,3116
C.C. 1374+15.67
Back S 86°36'54.19" E 3,542,302.4283
Ahead S 75°17'51.02" E 3,542,108.9130
Chord Bear S 80°57'22.67" E 12.103465,3202

Curve Data
Curve 164EB18
P.I. Station 1389+87.65 N 3.542509,1399 E 12.106206,1094
Delta 11°53'58.47" (LT)
Degree 0°43'59.34"
Tangent 814,466
Length 1,623,079
Radius 7,815,000
External 45,804
Long Chord 1,620,157
Mid.Ord. 45,804
P.C. Station 1381+73.18 N 3.542302,4283 E 12.105418,3116
P.T. Station 1397+96.26 N 3.542873,8508 E 12.106934,3546
C.C. 1389+87.65
Back S 75°17'51.02" E 3,542,873.8508
Ahead S 63°23'52.55" E 3,542,509.1399
Chord Bear S 69°20'51.97" E 12.103434,6331

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	1F(1)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
ROADWAY ENGINEER

Course from PT 164EB18 to PC 164EB19 N 63°23'52.55" E Dist 392.7592

Curve Data
Curve 164EB19
P.I. Station 1405+01.67 N 3.543189,7315 E 12.107565,0969
Delta 12°32'35.03" (RT)
Degree 2°00'50.08"
Tangent 312,567
Length 622,820
Radius 2,845,000
External 17,128
Long Chord 621,578
Mid.Ord. 17,023
P.C. Station 1401+09.01 N 3.543049,7250 E 12.107285,5356
P.T. Station 1408+11.84 N 3.543265,6832 E 12.107868,3917
C.C. 1405+01.67
Back S 63°23'52.55" E 3,540,505.9022
Ahead S 75°56'27.58" E 3,543,189.7315
Chord Bear S 69°40'10.07" E 12.108559,5020

Ending chain 164EB description
2 Describe Chain 164WB
Chain 164WB contains:
WB6400I CUR 164WB1 CUR 164WB2 CUR 164WB3 CUR 164WB4 CUR 164WB5 CUR 164WB6 CUR 164WB7 CUR 164WB8 CUR 164WB9 CUR 164WB10 CUR 164WB11 CUR 164WB12 CUR 164WB13 CUR 164WB14 CUR 164WB15 CUR 164WB16 CUR 164WB17 CUR 164WB18 CUR 164WB19 CUR 164WB20

Beginning chain 164WB description
Point WB6400I N 3.584698,9121 E 12.055303,2626 Sta 1683+40.00
Course from WB6400I to PC 164WB1 S 24°18'12.65" E Dist 2,465.7380

Curve Data
Curve 164WB1
P.I. Station 1726+30.71 N 3.580788,4575 E 12.057069,893
Delta 9°15'57.17" (LT)
Degree 0°15'22.47"
Tangent 1,824,967
Length 3,641,862
Radius 22,360,000
External 74,510
Long Chord 3,637,838
Mid.Ord. 74,106
P.C. Station 1708+05.74 N 3.582451,6926 E 12.056318,0870
P.T. Station 1744+47.60 N 3.579269,0296 E 12.058080,0525
C.C. 1726+30.71
Back S 24°18'12.65" E 3,579,269.0296
Ahead S 33°38'07.02" E 3,580,788.4575
Chord Bear S 28°58'10.24" E 12.076696,4999

Curve Data
Curve 164WB2
P.I. Station 1822+58.27 N 3.572750,4993 E 12.062382,9932
Delta 44°59'00.45" (LT)
Degree 1°04'08.22"
Tangent 2,219,272
Length 4,208,186
Radius 5,360,000
External 441,275
Long Chord 4,100,936
Mid.Ord. 407,096
P.C. Station 1805+38.99 N 3.574602,6369 E 12.061603,805
P.T. Station 1842+47.18 N 3.572304,7302 E 12.064557,0414
C.C. 1822+58.27
Back S 33°25'44.98" E 3,572,304.7302
Ahead S 78°24'45.43" E 3,572,750.4993
Chord Bear S 55°55'15.21" E 12.065633,6627

Curve Data
Curve 164WB3
P.I. Station 1934+27.06 N 3.570460,8386 E 12.073549,8358
Delta 51°57'05.86" (RT)
Degree 0°35'51.95"
Tangent 2,219,272
Length 4,208,186
Radius 5,360,000
External 441,275
Long Chord 4,100,936
Mid.Ord. 407,096
P.C. Station 1887+67.50 N 3.571396,7687 E 12.068985,2365
P.T. Station 1974+41.75 N 3.566293,0506 E 12.075633,3608
C.C. 1934+27.06
Back S 78°24'45.43" E 3,566,293.0506
Ahead S 28°33'19.57" E 3,570,460.8386
Chord Bear S 52°29'12.50" E 12.067059,9725

Course from PT 164WB3 to PC 164WB4 S 26°33'39.57" E Dist 615.954

P.H. PLANS
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROJECT MANAGER: Erin Foley, P.E. (757) 222-1500
SURVEYED BY: DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Inc. (757) 306-4260
SUBSURFACE UTILITY BY: DATE: N/A

ALIGNMENT DATA SHEET

REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA.	64	0064-121-418, P101	1F(2)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
ROADWAY ENGINEER

Chain RAMP_A contains:
RAIOI CUR RAMP_AI

Beginning chain RAMP_A description

Point RAOI N 3,542,386.340 E 12,011,288.845 Sta 10+00.00

Course from RAOI to PC RAMP_AI S 68° 40' 06.66" E Dist 383.9681

Curve RAMP_AI

Curve RAMP_AI
P.I. Station: 14+62.09 N
Delta: 7° 26' 59.92" (RT)
Degree: 4° 46' 12.3"
Tangent: 78.126
Length: 156.0319
Radius: 1,200.0000
External: 2,540.5
Long Chord: 155.9221
Mid.Ord.: 2.3317
P.C. Station: 13+83.97 N
P.T. Station: 15+00.00 N
C.C.: N 3,541,286.708 E
Back: S 68° 40' 06.66" E
Ahead: S 61° 13' 06.75" E
Chord Bear: S 64° 56' 36.71" E

Ending chain RAMP_A description

<- 2 Describe Chain RAMP_C

Chain RAMP_C contains:
CUR RAMP_C1 CUR RAMP_C2

Beginning chain RAMP_C description

Curve RAMP_C1

Curve RAMP_C1
P.I. Station: 11+45.82 N
Delta: 20° 39' 37.59" (RT)
Degree: 7° 09' 43.10"
Tangent: 145.8206
Length: 288.4742
Radius: 800.0000
External: 1,318.12
Long Chord: 286.9138
Mid.Ord.: 12.9675
P.C. Station: 10+00.00 N
P.T. Station: 12+88.47 N
C.C.: N 3,541,228.7050 E
Back: N 70° 44' 12.45" E
Ahead: S 88° 36' 09.95" E
Chord Bear: N 81° 04' 01.25" E

Curve RAMP_C2

Curve RAMP_C2
P.I. Station: 13+19.24 N
Delta: 0° 26' 41.54" (LT)
Degree: 0° 43' 23.04"
Tangent: 30.7631
Length: 61.5258
Radius: 792.40000
External: 0.0597
Long Chord: 61.5257
Mid.Ord.: 0.0597
P.C. Station: 12+88.47 N
P.T. Station: 13+50.00 N
C.C.: S 3,542,028.4671 E
Back: S 88° 36' 09.95" E
Ahead: S 88° 02' 51.49" E
Chord Bear: S 88° 49' 30.72" E

Ending chain RAMP_C description

Curve 164WB4
P.I. Station: 1993+58.13 N
Delta: 13° 00' 42.22" (LT)
Degree: 0° 30' 07.75"
Tangent: 1,301.881
Length: 2,591.822
Radius: 11,410.0000
External: 17,936.36
Long Chord: 2,585.6176
Mid.Ord.: 73.4774
P.C. Station: 1980+56.94 N
P.T. Station: 2006+48.12 N
C.C.: N 3,565,478.44768 E
Back: S 26° 33' 50.0000 E
Ahead: S 39° 34' 21.79" E
Chord Bear: S 33° 04' 00.68" E

Course from PT 164WB4 to PC 164WB5 S 39° 34' 21.79" E Dist 3,582.6058

Curve 164WB5
P.I. Station: 2043+72.28 N
Delta: 0° 44' 14.23" (LT)
Degree: 0° 15' 37.57"
Tangent: 1,415.508
Length: 2,831.077
Radius: 22,000.0000
External: 0.4554
Long Chord: 2,831.0957
Mid.Ord.: 0.4554
P.C. Station: 2042+30.73 N
P.T. Station: 2045+13.83 N
C.C.: N 3,560,814.4147 E
Back: S 39° 34' 21.79" E
Ahead: S 40° 18' 36.02" E
Chord Bear: S 39° 58' 28.90" E

Course from PT 164WB5 to PC 164WB6 S 40° 18' 36.02" E Dist 1,802.8353

Curve 164WB6
P.I. Station: 2078+44.82 N
Delta: 15° 13' 01.32" (LT)
Degree: 0° 30' 03.03"
Tangent: 1,528.1528
Length: 3,038.3193
Radius: 11,410.0000
External: 10,616.0000
Long Chord: 3,029.3975
Mid.Ord.: 100.7193
P.C. Station: 2063+16.66 N
P.T. Station: 2093+54.98 N
C.C.: N 3,559,222.6030 E
Back: S 40° 18' 36.02" E
Ahead: S 55° 31' 37.34" E
Chord Bear: S 47° 55' 06.68" E

Course from PT 164WB6 to PC 164WB7 S 55° 31' 37.34" E Dist 4,302.8428

Curve 164WB7
P.I. Station: 2146+76.10 N
Delta: 4° 02' 59.62" (RT)
Degree: 0° 11' 56.20"
Tangent: 1,018.2343
Length: 2,035.6986
Radius: 28,800.0000
External: 17,995.8
Long Chord: 2,035.2748
Mid.Ord.: 17.8944
P.C. Station: 2136+57.83 N
P.T. Station: 2156+93.52 N
C.C.: N 3,554,756.8579 E
Back: S 55° 31' 37.34" E
Ahead: S 52° 28' 37.73" E
Chord Bear: S 53° 30' 07.54" E

Course from PT 164WB7 to PC 164WB8 S 52° 28' 37.73" E Dist 4,393.6169

Curve 164WB8
P.I. Station: 2219+23.78 N
Delta: 9° 15' 04.97" (RT)
Degree: 0° 15' 08.66"
Tangent: 1,836.6432
Length: 3,665.3023
Radius: 22,700.0000
External: 14,079.96
Long Chord: 3,661.3219
Mid.Ord.: 73.9380
P.C. Station: 2200+87.14 N
P.T. Station: 2237+52.44 N
C.C.: N 3,553,546.2898 E
Back: S 52° 28' 37.73" E
Ahead: S 42° 13' 32.75" E
Chord Bear: S 46° 51' 05.24" E

Course from PT 164WB8 to PC 164WB9 S 42° 13' 32.75" E Dist 6,237.712

Curve 164WB9
P.I. Station: 2244+14.63 N
Delta: 0° 12' 00.87" (LT)
Degree: 0° 15' 38.27"
Tangent: 38.072
Length: 76.8344
Radius: 21,985.0000
External: 0.0336
Long Chord: 76.8344
Mid.Ord.: 0.0336
P.C. Station: 2243+17.62 N
P.T. Station: 2244+53.05 N
C.C.: N 3,547,817.1684 E
Back: S 42° 13' 32.75" E
Ahead: S 42° 25' 33.62" E
Chord Bear: S 42° 19' 33.97" E

Curve 164WB10
P.I. Station: 2244+99.62 N
Delta: 0° 11' 25.76" (RT)
Degree: 0° 12' 16.27"
Tangent: 46.5703
Length: 93.1406
Radius: 28,015.0000
External: 0.0387
Long Chord: 93.1405
Mid.Ord.: 0.0387
P.C. Station: 2244+53.05 N
P.T. Station: 2245+46.19 N
C.C.: N 3,547,787.1684 E
Back: S 42° 25' 33.62" E
Ahead: S 42° 14' 07.86" E
Chord Bear: S 42° 19' 50.74" E

Course from PT 164WB10 to PC 164WB11 S 42° 14' 07.86" E Dist 1,629.5453

Curve 164WB11
P.I. Station: 2262+20.50 N
Delta: 0° 10' 59.17" (RT)
Degree: 0° 12' 16.27"
Tangent: 47.542
Length: 89.5282
Radius: 28,015.0000
External: 0.0358
Long Chord: 89.5282
Mid.Ord.: 0.0358
P.C. Station: 2262+57.73 N
P.T. Station: 2262+55.26 N
C.C.: N 3,546,511.8166 E
Back: S 42° 14' 07.86" E
Ahead: S 42° 03' 08.69" E
Chord Bear: S 42° 08' 36.28" E

Course from PT 164WB11 to PC 164WB12 S 42° 03' 08.69" E Dist 301.6491

Curve 164WB12
P.I. Station: 2266+11.31 N
Delta: 0° 10' 54.57" (LT)
Degree: 0° 12' 17.05"
Tangent: 44.4001
Length: 88.8002
Radius: 27,885.0000
External: 0.0329
Long Chord: 88.8001
Mid.Ord.: 0.0329
P.C. Station: 2265+66.91 N
P.T. Station: 2266+55.71 N
C.C.: N 3,546,221.4507 E
Back: S 42° 03' 08.69" E
Ahead: S 42° 14' 03.20" E
Chord Bear: S 42° 08' 35.95" E

Course from PT 164WB12 to PC 164WB13 S 42° 14' 03.20" E Dist 2,100.9319

Curve 164WB13
P.I. Station: 2311+34.45 N
Delta: 34° 41' 42.24" (LT)
Degree: 0° 45' 09.37"
Tangent: 2,100.9319
Length: 4,609.3946
Radius: 7,612.0000
External: 36,274.0
Long Chord: 4,539.2923
Mid.Ord.: 34.4500
P.C. Station: 2287+56.64 N
P.T. Station: 2333+66.04 N
C.C.: N 3,542,301.7896 E
Back: S 42° 14' 03.20" E
Ahead: S 76° 55' 45.44" E
Chord Bear: S 59° 34' 54.32" E

Course from PT 164WB13 to PC 164WB14 S 76° 55' 45.44" E Dist 12,097.852,8302

Curve 164WB14
P.I. Station: 2337+50.98 N
Delta: 4° 57' 41.46" (LT)
Degree: 0° 38' 42.93"
Tangent: 384.9379
Length: 769.3947
Radius: 8,885.0000
External: 8,334.7
Long Chord: 769.3947
Mid.Ord.: 8.3269
P.C. Station: 2333+66.04 N
P.T. Station: 2341+35.43 N
C.C.: N 3,542,160.4352 E
Back: S 42° 14' 03.20" E
Ahead: S 76° 55' 45.44" E
Chord Bear: S 79° 24' 36.71" E

Course from PT 164WB14 to PC 164WB15 S 42° 13' 32.75" E Dist 12,094.909,1521

Curve 164WB15
P.I. Station: 2343+26.46 N
Delta: 3° 28' 24.70" (LT)
Degree: 0° 54' 34.04"
Tangent: 191.0257
Length: 381.9344
Radius: 6,300.0029
External: 2,894.4
Long Chord: 381.8759
Mid.Ord.: 2.8944
P.C. Station: 2341+35.43 N
P.T. Station: 2345+17.37 N
C.C.: N 3,542,160.4352 E
Back: S 81° 53' 35.48" E
Ahead: S 85° 57' 39.25" E
Chord Bear: S 85° 57' 39.25" E

Curve 164WB16
P.I. Station: 2348+09.15 N
Delta: 4° 17' 05.52" (LT)
Degree: 0° 44' 04.58"
Tangent: 291.7802
Length: 583.2884
Radius: 17,995.3225
External: 5,455.8
Long Chord: 583.1525
Mid.Ord.: 5.4520
P.C. Station: 2345+17.37 N
P.T. Station: 2351+00.66 N
C.C.: N 3,542,118.0505 E
Back: S 85° 21' 51.67" E
Ahead: S 89° 38' 51.12" E
Chord Bear: S 87° 30' 24.36" E

Course from PT 164WB16 to PC 164WB17 S 89° 38' 51.12" E Dist 12,103.533,2242

Curve 164WB17
P.I. Station: 2359+09.97 N
Delta: 12° 23' 35.46" (LT)
Degree: 0° 46' 07.17"
Tangent: 809.3146
Length: 1,618.3979
Radius: 43,806.8
External: 1,609.722
Long Chord: 1,609.722
Mid.Ord.: 43.5508
P.C. Station: 2351+00.66 N
P.T. Station: 2367+12.57 N
C.C.: N 3,542,092.6925 E
Back: S 89° 38' 51.12" E
Ahead: N 77° 57' 27.42" E
Chord Bear: N 84° 09' 15.15" E

Course from PT 164WB17 to PC 164WB18 S 77° 57' 27.42" E Dist 12,103.531,087

Curve 164WB18
P.I. Station: 2373+70.95 N
Delta: 9° 56' 54.17" (LT)
Degree: 0° 48' 28.57"
Tangent: 657.9870
Length: 1,315.9822
Radius: 15,600.012
External: 28.5797
Long Chord: 1,311.0099
Mid.Ord.: 28.4720
P.C. Station: 2367+12.57 N
P.T. Station: 2380+25.63 N
C.C.: N 3,542,256.5789 E
Back: S 89° 38' 51.12" E
Ahead: N 77° 57' 27.42" E
Chord Bear: N 72° 59' 00.34" E

Course from PT 164WB18 to PC 164WB19 S 77° 57' 27.42" E Dist 12,105.086,9749

Curve 164WB19
P.I. Station: 2383+04.33 N
Delta: 3° 46' 57.69" (LT)
Degree: 0° 40' 43.97"
Tangent: 278.7073
Length: 557.2121
Radius: 8,439.9978
External: 4,600.5
Long Chord: 557.110
Mid.Ord.: 4.6005
P.C. Station: 2380+25.63 N
P.T. Station: 2385+82.84 N
C.C.: N 3,542,640.2438 E
Back: S 89° 38' 51.12" E
Ahead: N 68° 00' 33.25" E
Chord Bear: N 66° 07' 04.41" E

Course from PT 164WB19 to PC 164WB20 N 64° 13' 35.56" E Dist 513.9033

Curve 164WB20
P.I. Station: 2393+91.14 N
Delta: 11° 43' 03.02" (RT)
Degree: 1° 59' 49.43"
Tangent: 294.3950
Length: 586.7365
Radius: 2,869.0000
External: 15,064.7
Long Chord: 585.7146
Mid.Ord.: 14.9861
P.C. Station: 2390+96.74 N
P.T. Station: 2396+83.48 N
C.C.: N 3,543,089.2458 E
Back: S 64° 13' 35.56" E
Ahead: N 75° 56' 38.59" E
Chord Bear: N 70° 05' 07.07" E

Course from PT 164WB20 to PC 164WB21 S 75° 56' 38.59" E Dist 12,107.312,0806

Curve 164WB21
P.I. Station: 2403+58.13 N
Delta: 13° 00' 42.22" (LT)
Degree: 0° 30' 07.75"
Tangent: 1,301.881
Length: 2,591.822
Radius: 11,410.0000
External: 17,936.36
Long Chord: 2,585.6176
Mid.Ord.: 73.4774
P.C. Station: 2390+96.74 N
P.T. Station: 2406+48.12 N
C.C.: N 3,542,386.340 E
Back: S 26° 33' 50.0000 E
Ahead: S 39° 34' 21.79" E
Chord Bear: S 33° 04' 00.68" E

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROJECT MANAGER ErIn_Eoley,P.E.(757) 222-1500
SURVEYED BY, DATE Rilee_Associates,Inc.(757) 306-4260
DESIGN BY HDB_Engineering,Inc.
SUBSURFACE UTILITY BY, DATE N/A

TRANSPORTATION MANAGEMENT PLAN

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	1J(1)
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT				
<div style="border: 1px solid black; padding: 2px; display: inline-block;"> HDR Engineering, Inc. Virginia Beach, Virginia ROADWAY ENGINEER </div>				

GENERAL NOTES:

1. UNLESS OTHERWISE APPROVED OR DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL PLAN AND PROSECUTE THE WORK IN ACCORDANCE WITH THE FOLLOWING SEQUENCE OF CONSTRUCTION AND TEMPORARY TRAFFIC CONTROL PLANS AND SHALL BE COORDINATED WITH THE ROADWAY AND ITS PLANS.
2. THE WORK HOURS AND LANE AND SHOULDER CLOSURES ARE TO FOLLOW ALLOWABLE LANE CLOSURE HOURS FOR THE STATE HIGHWAY SYSTEM IN HAMPTON ROADS DISTRICT, APRIL 2019.
3. THIS PROJECT HAS BEEN DESIGNATED TRANSPORTATION MANAGEMENT TYPE B (PROJECT MANAGEMENT PROJECT CATEGORIES III & IV).
4. WORK ZONE LOCATION - I-64 EB STA.696+21.40 TO 1402+91.69
5. LENGTH AND WIDTH OF WORK ZONE - 70,692' L X VARIABLE W.
6. INSIDE AND OUTSIDE TRAVEL LANES WILL BE AFFECTED BY THE WORK ALONG I-64.
7. NOT TO EXCLUDE OTHER STANDARD LAYOUTS OR MODIFICATIONS THEREOF, THE FOLLOWING WAPM TYPICAL TRAFFIC CONTROL (TTC) FIGURES APPLY TO THE SAFETY FEATURES EMPLOYED BY THE CONTRACTOR:
 - TTC-1J WORK BEYOND THE SHOULDER OPERATION
 - TTC-3.2 MOBILE OR SHORT DURATION SHOULDER OPERATION
 - TTC-4.2 STATIONARY OPERATION ON A SHOULDER
 - TTC-6.2 SHOULDER CLOSURE WITH BARRIER OPERATION
 - TTC-7J SHOULDER CLOSURE WITH BARRIER AND LANE SHIFT OPERATION
 - TTC-11.2 MOVING/MOBILE OPERATIONS ON LIMITED ACCESS HIGHWAYS (SINGLE LANE CLOSURE)
 - TTC-16.2 OUTSIDE LANE CLOSURE OPERATION ON A FOUR-LANE ROADWAY
 - TTC-17.2 INSIDE LANE CLOSURE OPERATION ON A FOUR-LANE ROADWAY
 - TTC-19.2 MULTI-LANE CLOSURE OPERATION
 - TTC-37.2 WORK OPERATION IN THE VICINITY OF AN EXIT RAMP
 - TTC-39.2 WORK OPERATION IN THE VICINITY OF AN ENTRANCE RAMP
 - TTC-40.2 MULTI-LANE SHIFT OPERATION
 - TTC-53.0 SIGNING FOR PROJECT LIMITS
 - TTC-66J SLOW ROLL OPERATION ON A MULTI-LANE ROADWAY
8. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH THE CURRENT MUTCD, THE 2016 ROAD AND BRIDGE SPECIFICATIONS, THE 2016 ROAD AND BRIDGE STANDARDS REV 2020, THE 2011 VIRGINIA WORK AREA PROTECTION MANUAL REVISION 2J, AND THE 2011 VIRGINIA SUPPLEMENT TO THE MUTCD INCLUDING EACH MANUAL'S SUBSEQUENT REVISIONS AND AS DIRECTED BY THE ENGINEER.
9. THE MAJOR TYPES OF TRAVELERS IMPACTED BY THE CONSTRUCTION OF I-64 HREL SEGMENT 4A/4B ARE RESIDENTS, COMMUTERS, TOURISTS AND TRUCKERS.
10. ALL LANES WITH A 11' MINIMUM WIDTH SHALL BE MAINTAINED AT ALL TIMES, EXCEPT DURING ALLOWABLE TEMPORARY LANE CLOSURES.
11. THE SPEED LIMIT SHALL REMAIN THE POSTED LIMIT DURING CONSTRUCTION ON THIS PROJECT.
12. ALL CHANNELIZING DEVICES SHALL BE EQUIPPED WITH REFLECTIVE SHEETING MEETING THE REQUIREMENTS OF THE LATEST STANDARDS CONTAINED IN VIRGINIA'S WORK AREA PROTECTION MANUAL AND MUTCD.
13. ALL TRAFFIC CONTROL DEVICES AND SIGNS NECESSARY FOR MAINTENANCE OF TRAFFIC ARE TO BE PROVIDED, INSTALLED, MAINTAINED AND REMOVED BY THE CONTRACTOR.
14. ACCESS INTO AND OUT OF THE WORK SPACE SHALL TAKE INTO ACCOUNT THE AVAILABILITY OF SUFFICIENT SIGHT DISTANCE AND ADEQUATE DECELERATION AND ACCELERATION LENGTHS FOR CONSTRUCTION VEHICLES AND EQUIPMENT.
15. ALL TEMPORARY TRAFFIC CONTROL DEVICE LOCATIONS SHALL BE MARKED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
16. THE ENGINEER SHALL DETERMINE WHETHER OR NOT THE USE OF LAW ENFORCEMENT OFFICERS IS NEEDED DURING THIS TEMPORARY TRAFFIC CONTROL WORK. THE CONTRACTOR SHALL NOT BE RESPONSIBLE FOR ANY COORDINATION OR PAYMENT FOR ANY USE OF LAW ENFORCEMENT OFFICERS. THE UTILIZATION OF LAW ENFORCEMENT OFFICERS IS TO BE COORDINATED BY THE ENGINEER.
17. THE CONTRACTOR SHALL SUBMIT STAGING PLANS AND SCHEDULES A MINIMUM OF 4 WEEKS PRIOR TO THE PLANNED CLOSURES TO ALLOW FOR TRAFFIC ENGINEERING REVIEW, APPROVAL FROM REGIONAL OPERATIONS DIRECTOR, AND DISTRICT ENGINEER, REVIEW BY THE CITIES OF HAMPTON AND NEWPORT NEWS, AND ADEQUATE PUBLIC OUTREACH TIME.
18. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING CONSTRUCTION, SIGNING, AND TRAFFIC MANAGEMENT PLANS WITH OTHER ADJACENT PROJECTS UNDER CONSTRUCTION.
19. NO LANE CLOSURE SIGNING OR OTHER DISRUPTIVE WORK IS TO BE INITIATED PRIOR TO THE BEGINNING OF THE CLOSURE TIME SPECIFIED. THE REMOVAL OF ALL SIGNS, EQUIPMENT, AND MATERIALS WILL BE ACCOMPLISHED PRIOR TO THE END OF THE CLOSURE TIME SPECIFIED.
20. ALL CONSTRUCTION SIGNS THAT GOVERN TRAFFIC FLOW THROUGH THE WORK ZONE SHALL BE COVERED OR REMOVED AND STORED AWAY FROM TRAFFIC WHEN NOT IN USE.
21. THE CONTRACTOR SHALL TEMPORARILY COVER ANY EXISTING SIGNS IN CONFLICT WITH CONSTRUCTION SIGNAGE AND UNCOVER THESE AT THE COMPLETION OF THE PROJECT AND/OR PHASE AS DIRECTED BY THE ENGINEER.

TEMPORARY TRAFFIC CONTROL

1. IT IS NOT THE INTENT OF THIS PLAN TO ENUMERATE EVERY DETAIL WHICH MUST BE CONSIDERED IN THE CONSTRUCTION OF EACH PHASE, BUT ONLY TO SHOW THE GENERAL FEATURES NECESSARY TO PROVIDE FOR PROPER HANDLING OF TRAFFIC. THE CONSTRUCTION TECHNIQUES ULTIMATELY EMPLOYED BY THE CONTRACTOR ARE TO BE REVIEWED BY THE ENGINEER. THE CONTRACTOR MUST SUBMIT TRAFFIC CONTROL PLANS NOT EXPRESSLY OUTLINED IN THE VIRGINIA WORK AREA PROTECTION MANUAL FOR APPROVAL AT LEAST 30 DAYS PRIOR TO PERFORMING THE WORK. NO DEVIATIONS FROM THE PLANS WILL BE ALLOWED WITHOUT PRIOR APPROVAL FROM THE ENGINEER. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE FOR SAFE TRAVEL ON THE EXISTING AND/OR TEMPORARY ROADWAYS.
2. THE CONTRACTOR SHALL SUBMIT REVISED TRAFFIC CONTROL PLANS TO THE ENGINEER FOR APPROVAL PRIOR TO THE BEGINNING OF ANY REVISED PHASE. THE TRAFFIC CONTROL PLAN SHALL SHOW ALL NECESSARY TRAFFIC CONTROL DEVICES INCLUDING SIGNS, PAVEMENT MARKINGS, AND CHANNELIZING DEVICES.
3. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER ON THE LOCATION OF EACH PORTABLE CHANGEABLE MESSAGE SIGN (PCMS) BOARD IN ADDITION TO THE MESSAGES TO BE DISPLAYED WHICH MAY INCLUDE ADVANCED MESSAGES, DAYTIME MESSAGES, AND NIGHTTIME MESSAGES. THESE MESSAGES WILL BE COORDINATED WITH THE ADDITIONAL CHANGEABLE MESSAGE SIGNS OPERATED BY THE TRAFFIC OPERATIONS CENTER THROUGHOUT THE REGION.
4. CLEAR ZONE REQUIREMENTS SHALL BE MAINTAINED AND THE CONTRACTOR IS INSTRUCTED TO MAINTAIN THE CLEAR ZONE FREE OF STORED MATERIALS AND PARKED EQUIPMENT.
5. AT THE CONCLUSION OF EACH WORKDAY, ALL PAVEMENT EDGE DROP-OFFS SHALL MEET THE REQUIREMENTS OF FIGURE 2 IN APPENDIX A OF THE 2011 WAPM FOR THE SAFETY AND PROTECTION OF VEHICULAR TRAFFIC. ALL COSTS FOR MEETING THESE REQUIREMENTS SHALL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS IN THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
6. NO BOOMING OR LIFTING OF MATERIALS OVER A LIVE LANE SHALL BE PERMITTED. STOPPING TRAFFIC FOR A MAXIMUM OF 15 MINUTES REQUIRES PERMISSION OF THE ENGINEER.
7. FULL SPAN OVERHEAD SIGN STRUCTURES SHALL BE INSTALLED AND REMOVED USING SLOW ROLLS DURING ALLOWABLE LANE CLOSURE HOURS IN ACCORDANCE WITH ALLOWABLE LANE CLOSURE HOURS FOR THE STATE HIGHWAY SYSTEM IN HAMPTON ROADS DISTRICT, CURRENT EDITION.
8. THE CONTRACTOR SHALL CONTACT THE ENGINEER WHO SHALL CONTACT VDOT'S TRAFFIC OPERATIONS CENTER AT (888) 782-7982, A MINIMUM OF 24 HOURS IN ADVANCE OF ANY LANE OR SHOULDER CLOSURES OR OPERATIONS THAT WILL IMPACT THE NORMAL TRAFFIC FLOW ON I-64.
9. CONTRACTOR SHALL REPLACE DAMAGED IMPACT ATTENUATORS IMMEDIATELY AFTER THE DAMAGE, NOT TO EXCEED 24 HOURS FROM THE TIME OF DAMAGE.
10. TRAFFIC BARRIER SERVICE SHALL BE INSTALLED AND REMOVED SO AS NOT TO PRESENT ANY BLUNT END OR HAZARD TO THE MOTORING PUBLIC. THE PLACEMENT AND REMOVAL OF THE TRAFFIC BARRIER SERVICE AND BARRICADES ARE TO BE COORDINATED BY THE PROJECT WORK ZONE COORDINATOR.
11. ALL PAVEMENT MARKINGS AND TRAFFIC FLOW ARROWS ARE SCHEMATIC ONLY. THE ACTUAL LOCATION AND APPLICATION OF PAVEMENT MARKINGS SHALL BE MADE IN ACCORDANCE WITH SECTIONS 512 AND 704 OF THE APPLICABLE VDOT ROAD AND BRIDGE SPECIFICATIONS, THE MUTCD, THE VA WORK AREA PROTECTION MANUAL, THE ROAD AND BRIDGE STANDARDS, OR AS DIRECTED BY THE ENGINEER.
12. A SUITABLE FOUNDATION SHALL BE PROVIDED FOR GROUP 2 CHANNELIZING DEVICES AND ALL ASSOCIATED COST SHALL BE INCLUDED IN THE PRICE OF GROUP 2 CHANNELIZING DEVICES.
13. REMOVAL OF SIGNS FROM EXISTING STRUCTURES AND ADDING SIGNS/DMS TO EXISTING STRUCTURES SHALL BE PERFORMED USING LANE CLOSURE AND APPROVED BY THE ENGINEER.

PUBLIC COMMUNICATIONS PLAN

1. THE CONTRACTOR SHALL DESIGNATE AN INDIVIDUAL OR INDIVIDUALS TO BE RESPONSIBLE FOR THE MAINTENANCE AND PROTECTION OF TRAFFIC, WHO CAN BE CONTACTED AT ALL TIMES, 24 HOURS A DAY, 7 DAYS A WEEK IN CASE OF EMERGENCIES.
2. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE VDOT PROJECT INSPECTOR, WHO WILL CONTACT THE REGIONAL OPERATIONS MANAGER AND THE DISTRICT COMMUNICATION STAFF OF ANY UNSCHEDULED TRAFFIC DELAYS.
3. VDOT WILL NOTIFY THE PUBLIC OF CONSTRUCTION START/END DATES, EXTENT OF CONSTRUCTION AND POTENTIAL TRAFFIC DELAYS THROUGH THE USE OF LOCAL NEWSPAPER AND OTHER MEDIA OUTLETS.
4. PRIOR TO CLOSING LANES OF A ROADWAY LOCAL FIRE, RESCUE, AND LAW ENFORCEMENT SHALL BE NOTIFIED BY THE ENGINEER. IN THE EVENT AN ACCEPTABLE ALTERNATE ROUTING FOR EMERGENCY SERVICES CANNOT BE OBTAINED, THE CONTRACTOR SHALL MAKE ACCOMMODATIONS TO ROUTE EMERGENCY VEHICLES SAFELY THROUGH THE WORK ZONE UNDER APPROVAL AND DIRECTION OF THE ENGINEER.

TRANSPORTATION OPERATIONS PLAN

1. THE PROCESS TO NOTIFY THE REGIONAL TRAFFIC OPERATIONS CENTER TO PLACE LANE CLOSURE INFORMATION ON THE 511 SYSTEM AND VA TRAFFIC WILL BE:
 - A. THE CONTRACTOR SHALL FOLLOW THE SPECIAL PROVISION FOR LANE CLOSURE COORDINATION (LCC) / LANE CLOSURE IMPLEMENTATION (LCI).
 - B. THE CONTRACTOR IS TO SUBMIT TO THE CONSTRUCTION MANAGER OR DESIGNEE PLANNED LANE AND SHOULDER CLOSURE BY 3 P.M. TUESDAY PRIOR TO THE PLANNED LANE AND SHOULDER CLOSURE FOR THE FOLLOWING WEEK, THE WEEK BEGINNING ON MONDAY.
 - C. THE CONSTRUCTION MANAGER OR DESIGNEE IS TO SUBMIT THE PLANNED LANE AND SHOULDER CLOSURES FOR THE UPCOMING WEEK USING LANE AND SHOULDER CLOSURE ADVISORY AND MANAGEMENT SYSTEM (LCAMS). THE LANE AND SHOULDER CLOSURE INFORMATION HAS TO BE INPUT INTO LCAMS BY CLOSE OF BUSINESS ON THURSDAY FOR THE FOLLOWING WEEK. LCAMS ENTRIES WILL BE SPECIFIC IN THE LOCATION OF THE WORK FOR EACH DAY.
 - D. THE EASTERN REGION TOC IS TO REVIEW PLANNED LANE AND SHOULDER CLOSURES FOR ANY CONFLICTS AND NOTIFY THE CONSTRUCTION MANAGER OR DESIGNEE BY NOON FRIDAY.
 - E. THE CONTRACTOR IS TO CONFIRM THEIR INTENT TO INSTALL PROPOSED AND PREVIOUSLY APPROVED LANE AND SHOULDER CLOSURES WITH THE CONSTRUCTION MANAGER OR DESIGNEE A MINIMUM OF TWENTY-FOUR (24) HOURS IN ADVANCE OF PROPOSED LANE AND SHOULDER CLOSURES PREVIOUSLY SCHEDULED.
 - F. THE CONSTRUCTION MANAGER OR DESIGNEE WILL NOTIFY THE TOC OF PROPOSED LANE AND SHOULDER CLOSURES. THE CONSTRUCTION MANAGER OR DESIGNEE WILL HAVE THE VA-TRAFFIC OPERATOR ENTER DATA INTO VA-TRAFFIC AND WILL UPDATE THE TOC DAILY DURING LANE AND SHOULDER CLOSURE ACTIVITIES.
 - G. THE HAMPTON ROADS DISTRICT PUBLIC AFFAIRS OFFICE WILL USE VARIOUS MEDIA PUBLICATIONS TO ANNOUNCE PLANNED LANE AND SHOULDER CLOSURES.
2. IN THE CASE OF UNSCHEDULED TRAFFIC BACKUP/DELAY, THE TOC SHALL BE NOTIFIED BY THE VDOT PROJECT INSPECTOR AND/OR CONSTRUCTION MANAGER. THE TOC WILL MAKE ALL ENTRIES INTO SYSTEMS THAT FEED THIS INFORMATION TO 511. THE TOC WILL ALSO NOTIFY THE VDOT STAFF OF ANY INCIDENTS AND TRAFFIC DELAYS.
3. PROCEDURES TO RESPOND TO TRAFFIC INCIDENTS THAT OCCUR IN THE WORK ZONE:
 - A. CONTRACTOR SHALL NOTIFY THE VIRGINIA STATE POLICE AND VDOT INSPECTOR IN CHARGE.
 - B. THE VDOT INSPECTOR WILL NOTIFY THE TOC WHICH WILL SET INTO PLACE THE PROCEDURE DEFINED FOR UNSCHEDULED TRAFFIC BACKUP/DELAY.
 - C. UPON ARRIVAL ON THE SCENE, THE VIRGINIA STATE POLICE AND PROJECT INSPECTOR WILL DETERMINE RESPONSE NECESSARY TO ALLOW TRAVELING PUBLIC AROUND INCIDENT.
 - D. THE VDOT INSPECTOR IS TO NOTIFY THE CONSTRUCTION MANAGER OR AREA CONSTRUCTION ENGINEER AND THE RESIDENCY OFFICE OF THE INCIDENT. THE INSPECTOR IS TO COMPLETE AN ACCIDENT REPORT TO INCLUDE SKETCHES AND PHOTOS, AS NECESSARY, OF CONTRACTOR'S WORK ZONE.
 - E. THE VIRGINIA STATE POLICE REPORT OF THE INCIDENT WILL BE REVIEWED BY THE AREA CONSTRUCTION ENGINEER TO DETERMINE IF ANY MODIFICATION OF THE TEMPORARY TRAFFIC CONTROL PLAN IS NECESSARY. IF IT IS DETERMINED THAT IT IS NECESSARY TO ALTER THE PLAN THEN A MEETING WILL BE CALLED WITH THE CONTRACTOR, VDOT PROJECT PERSONNEL, VDOT TRAFFIC SAFETY REPRESENTATIVES AND THE VIRGINIA STATE POLICE (IF NECESSARY) TO DISCUSS MODIFICATION AND IMPLEMENTATION OF AN IMPROVED TRAFFIC CONTROL PLAN.
4. A REVIEW OF ALL MAJOR INCIDENTS DETERMINED BY THE REGIONAL INCIDENT MANAGEMENT COORDINATOR SHALL BE ACCOMPLISHED WITHIN 24 HOURS OF CLEARANCE OF THE INCIDENT. VDOT PROJECT STAFF, REGIONAL OPERATIONS STAFF, CONTRACTOR STAFF, AND EMERGENCY RESPONDERS SHALL BE REPRESENTED AT THESE MEETINGS. THE PURPOSE OF THIS REVIEW IS TO IMPLEMENT "LESSONS LEARNED" FROM INCIDENTS.
5. PERIODIC REVIEWS OF THE TRANSPORTATION OPERATIONS PLAN AND SEQUENCE OF CONSTRUCTION WITH VDOT STAFF AND CONTRACTOR STAFF SHALL BE CONDUCTED THROUGHOUT THE LIFE OF THE PROJECT TO IDENTIFY POTENTIAL PROBLEMS AND IMPLEMENT CORRECTIVE ACTION.

VIRGINIA AGENCY CONTACT INFORMATION		
AGENCY	CONTACT INFORMATION	RESPONSIBLE CHARGE
Eastern Region Traffic Operations Center	24 Hour Office: (757) 424-9920	
Virginia State Police Division 5 Headquarters	Emergency: 911 Office: (800) 582-8350	
Virginia State Police Area 46 (Hampton & Newport News)	Emergency: 911 Office: (757) 865-0206	
City of Hampton Police	Emergency: 911 Office: (757) 727-6111	
City of Hampton Fire & Rescue	Emergency: 911 Office: (757) 727-6580	
City of Newport News Police	Emergency: 911 Office: (757) 928-4100	
City of Newport News Fire & Rescue	Emergency: 911 Office: (757) 975-5422	
District Work Zone Safety Coordinator	Office: (757) 956-3143	John Sabato
City of Hampton Traffic Operations	Office: (757) 727-8311	TBD
City of Newport News Traffic Engineer	Office: (757) XXX-XXXX	TBD
Regional Traffic Engineer	Office: (757) 956-3137	Mike Corwin
District Public Affairs Manager	Office: (757) 956-3024 Cell: (757) 327-9260	Holly Christopher
Area Construction Engineer	Office: (757) XXX-XXXX	TBD
Construction Manager	Office: (757) XXX-XXXX	TBD
Project Inspector	Office: (757) XXX-XXXX	TBD

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROJECT MANAGER ErIn_Ealey,P.E.(757) 222-1500
SURVEYED BY, DATE Rhee_Associates, Inc.(757) 306-4260
DESIGN BY HDR_Engineering, Inc.
SUBSURFACE UTILITY BY, DATE N/A

TEMPORARY TRAFFIC CONTROL PLAN SUGGESTED SEQUENCE OF CONSTRUCTION

	REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
			VA.	64	0064-121-418, P101
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT					
HDR Engineering, Inc. Virginia Beach, Virginia ROADWAY ENGINEER					

MAINTENANCE OF TRAFFIC

1. SIGN SPACING SHALL BE ADJUSTED TO FIT FIELD CONDITIONS WITH APPROVAL OF THE ENGINEER.
2. ALL EXISTING SIGNS WHETHER SHOWN ON THE PLANS OR NOT SHALL BE MAINTAINED AND RELOCATED AS NECESSARY THROUGHOUT THE LIFE OF THE PROJECT OR AS DIRECTED BY THE ENGINEER.
3. THE ENGINEER SHALL DETERMINE WHETHER THE USE OF LAW ENFORCEMENT OFFICERS IS NEEDED DURING TEMPORARY TRAFFIC CONTROL WORK.
4. VDOT RESERVES THE RIGHT TO MONITOR TRAFFIC CONDITIONS IMPACTED BY THE WORK AND TO MAKE ADDITIONAL RESTRICTIONS AS MAY BE NECESSARY (I.E. TERMINATE A LANE CLOSURE EARLY) OR AS EMERGENCY SITUATIONS DICTATE. ADDITIONAL LANE CLOSURE RESTRICTIONS MAY BE ENFORCED BY VDOT DURING LOCAL SPECIAL EVENTS, SUCH AS (TBD). THESE ADDITIONAL LANE CLOSURE RESTRICTIONS, IF ENFORCED, SHALL NOT ALTER THE REQUIRED CONSTRUCTION FIXED COMPLETION DATE. CONTRACTOR SHALL ASSUME ADDITIONAL LANE CLOSURE IMPACTS FOR AT LEAST FIVE (5) SPECIAL EVENTS PER YEAR; THESE EVENTS MAY INCLUDE, BUT ARE NOT LIMITED TO, THE EVENTS LISTED ABOVE.

SEQUENCE OF CONSTRUCTION

1. THE CONTRACTOR SHALL INSTALL TBSC, PERMANENT CONCRETE BARRIER SUCH AS PIER PROTECTION OR GUARDRAIL PRIOR TO CONSTRUCTING THE SIGN STRUCTURE FOUNDATIONS. TBSC MUST REMAIN IN PLACE UNTIL APPROVED BY THE ENGINEER.
2. BARRIER AND GUARDRAIL MUST BE COMPLETELY INSTALLED PRIOR TO EXPOSING IT TO TRAFFIC.
3. UNDER NO CIRCUMSTANCES WILL THE CONCURRENT CONSTRUCTION ALONG LEFT AND RIGHT SHOULDERS BE ALLOWED. CONSTRUCTION ON ADJACENT SHOULDERS WILL BE STAGED ALLOWING ONE FULL WIDTH SHOULDER TO BE MAINTAINED AT ALL TIMES.
4. ALL EROSION AND SEDIMENT CONTROL MEASURES AND TEMPORARY DRAINAGE SHALL BE IN PLACE PRIOR TO BEGINNING ANY NEW PHASES OF CONSTRUCTION.
5. THE CONTRACTOR SHALL PROVIDE TEMPORARY DRAINAGE, IF REQUIRED, TO PREVENT PONDING OF WATER ON THE ROADWAY AND ADJACENT PROPERTIES. TEMPORARY DRAINAGE ON THE PROJECT IS THE CONTRACTOR'S RESPONSIBILITY. THE COST OF TEMPORARY DRAINAGE, OTHER THAN THE ITEMS THAT HAVE BEEN QUANTIFIED IN THESE PLANS, IS INCLUDED IN THE PRICE BID FOR OTHER DRAINAGE ITEMS AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
6. EXISTING SURFACE, AGGREGATE BASE AND SUBBASE MATERIAL WHICH WILL BE DEMOLISHED OR OBLITERATED DURING CONSTRUCTION AND WHICH IS SUITABLE FOR MAINTENANCE OF TRAFFIC, AS DETERMINED BY THE ENGINEER, SHALL BE SALVAGED AND UTILIZED FOR MAINTENANCE OF TRAFFIC PRIOR TO THE USE OF COMMERCIAL MATERIALS. WHEN NOT SPECIFIED AS A SEPARATE PAY ITEM, THE REMOVAL AND SALVAGING OF EXISTING SURFACES AND AGGREGATE BASE AND SUBBASE MATERIAL WILL BE MEASURED AND PAID FOR AS REGULAR EXCAVATION IN ACCORDANCE WITH SECTION 303 OF THE SPECIFICATIONS.
7. ALL PROPOSED FULL DEPTH ASPHALT PAVEMENT WILL BE CONSTRUCTED UP TO THE INTERMEDIATE LAYER. THE FINAL SURFACE WILL BE APPLIED IN THE FINAL PHASE OF CONSTRUCTION WHEN APPROVED BY THE ENGINEER.
8. WHEN PROCEEDING FROM ONE PHASE OF CONSTRUCTION TO ANOTHER PHASE OF CONSTRUCTION, ANY EXISTING OR CONSTRUCTION PAVEMENT MARKINGS THAT DO NOT ALIGN WITH THE NEW TRAFFIC PATTERNS AND/OR NECESSARY MARKINGS SHALL BE ERADICATED AND RE-STRIPED.
9. AT LOCATIONS UTILIZING TEMPORARY SHOULDER CLOSURES, THE CONTRACTOR SHALL CONSTRUCT THE PROPOSED BARRIER OR GUARDRAIL THEN WORK BEHIND BARRIER OR GUARDRAIL.
10. ACTIVITY AREAS SEPARATED BY LESS THAN 1000 FEET SHALL BE CONNECTED WITH A CONTINUOUS SHOULDER CLOSURE. GROUP 2 CHANNELIZING DEVICES MAY BE USED.
11. GAPS BETWEEN 1/2 MILE AND 1 MILE SHOULD BE MARKED WITH ANOTHER SET OF ADVANCED WARNING SIGNS AND A 660-FOOT MINIMUM TAPER AND SHOULDER CLOSURE.
12. GAPS BETWEEN CLOSURES ON SAME SIDE OF TRAFFIC, BETWEEN 1520 FEET AND 1/2 MILE LONG WILL BE ALLOWED IF MARKED AS PULL OFF AREAS - SEE TTC 8J.
13. SHOULDER CLOSURES ON OPPOSITE SIDE OF ROAD REQUIRE A MINIMUM 1-MILE SEPARATION.
14. SHOULDER CLOSURES WILL BE ALLOWED ON THE OPPOSITE SIDES OF THE SAME BARRIER LOCATION.

SEGMENT 4A PHASING NOTES:

PHASE 1A:

PLACE AND OPERATE PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) FOR TWO WEEKS PRIOR TO THE ROAD WORK. OPERATION TO BE 24 HOURS PER DAY 7 DAYS A WEEK.

PHASE 1:

THE CONTRACTOR SHALL INSTALL TEMPORARY BARRIER, IMPACT ATTENUATORS, GUARDRAIL AND OTHER TRAFFIC CONTROL DEVICES AS SHOWN ON THE PLANS IN ACCORDANCE WITH VIRGINIA WORK AREA PROTECTION MANUAL REVISION 2J.

CONSTRUCT ALL ROADWAY, TOLLING AND SIGNING REQUIRED FOR TOLL INTEGRATION (SEE PLANS FOR LOCATIONS). WORK MAY NEED TO BE STAGED TO MAINTAIN ONE FULL WIDTH SHOULDER AT ALL TIMES.

REMOVE TRAFFIC CONTROL DEVICES AT EACH WORK ZONE/SPACE AS WORK IS COMPLETE AND WITH AN APPROVAL FROM THE ENGINEER.

PHASE 2:

THE CONTRACTOR SHALL INSTALL TEMPORARY BARRIER, IMPACT ATTENUATORS, AND OTHER TRAFFIC CONTROL DEVICES AS SHOWN ON THE PLANS IN ACCORDANCE WITH VIRGINIA WORK AREA PROTECTION MANUAL REVISION 2.

CONSTRUCT REMAINING ROADWAY, TOLLING AND SIGNING. WORK MAY NEED TO BE STAGED TO MAINTAIN ONE FULL WIDTH SHOULDER AT ALL TIMES.

REMOVE TRAFFIC CONTROL DEVICES AT EACH LOCATION AS WORK IS COMPLETE AND WITH AN APPROVAL FROM THE ENGINEER.

PHASE 3:

CONSTRUCT FINAL PAVEMENT MARKING AND INSTALL TRAFFIC DELINEATORS

THE CONTRACTOR SHALL REMOVE THE REMAINING TEMPORARY TRAFFIC CONTROL DEVICES AT THE CONCLUSION OF CONSTRUCTION AND WITH AN APPROVAL FROM THE ENGINEER.

SEGMENT 4B AT-GRADE OUTSIDE WIDENING PHASING NOTES:

PHASE 1A:

PLACE AND OPERATE PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) FOR TWO WEEKS PRIOR TO THE ROAD WORK. OPERATION TO BE 24 HOURS A DAY 7 DAYS PER WEEK.

PHASE 1B:

THE CONTRACTOR SHALL PERFORM INSIDE SHOULDER STRENGTHENING (IF REQUIRED) DURING ALLOWABLE LANE CLOSURE HOURS.

PHASE 1:

THE CONTRACTOR SHALL INSTALL TEMPORARY BARRIER, IMPACT ATTENUATORS, GUARDRAIL AND OTHER TRAFFIC CONTROL DEVICES AS SHOWN ON THE PLANS IN ACCORDANCE WITH VIRGINIA WORK AREA PROTECTION MANUAL REVISION 2J.

THE CONTRACTOR SHALL MAINTAIN 3-11' LANES EASTBOUND AND 3-11' LANES WESTBOUND OF TRAFFIC ON I-64 AT ALL TIMES.

THE CONTRACTOR SHALL MAINTAIN ACCESS TO EXISTING ENTRANCE AND EXIT RAMP DURING CONSTRUCTION AT ALL TIMES.

EASTBOUND AND WESTBOUND TRAFFIC SHALL BE SHIFTED TOWARDS THE INSIDE SHOULDER.

CONSTRUCT OUTSIDE SHOULDER / SHOULDER WIDENING TO INTERMEDIATE ASPHALT SURFACE.

REMOVE TEMPORARY BARRIER.

PHASE 2:

PLACE SURFACE COURSE AND PERMANENT PAVEMENT MARKINGS PER TTC-11.2

THE CONTRACTOR SHALL REMOVE THE REMAINING TEMPORARY TRAFFIC CONTROL DEVICES AT THE COMMENCEMENT OF CONSTRUCTION.

SEGMENT 4B EASTBOUND GRADE SEPARATED PHASING NOTES:

ALL PHASES:

THE CONTRACTOR SHALL MAINTAIN 3 @ 11' LANES OF TRAFFIC ON I-64 EASTBOUND AT ALL TIMES.

THE CONTRACTOR SHALL MAINTAIN ACCESS TO EXISTING ENTRANCE AND EXIT RAMP DURING CONSTRUCTION AT ALL TIMES.

PHASE 1A:

PLACE AND OPERATE PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) FOR TWO WEEKS PRIOR TO THE ROAD WORK. OPERATION TO BE 24 HOURS PER DAY 7 DAYS PER WEEK.

PHASE 1B:

THE CONTRACTOR SHALL PERFORM INSIDE SHOULDER STRENGTHENING (IF REQUIRED) DURING ALLOWABLE LANE CLOSURE HOURS.

PHASE 1:

THE CONTRACTOR SHALL INSTALL TEMPORARY BARRIER, IMPACT ATTENUATORS, GUARDRAIL AND OTHER TRAFFIC CONTROL DEVICES AS SHOWN ON THE PLANS IN ACCORDANCE WITH VIRGINIA WORK AREA PROTECTION MANUAL REVISION 2J.

EASTBOUND TRAFFIC SHALL BE SHIFTED TOWARDS THE INSIDE SHOULDER.

CONSTRUCT GRADE SEPARATED OUTSIDE LANE AND SHOULDER WIDENING.

PHASE 2:

THE CONTRACTOR SHALL INSTALL TEMPORARY BARRIER, IMPACT ATTENUATORS, GUARDRAIL AND OTHER TRAFFIC CONTROL DEVICES AS SHOWN ON THE PLANS IN ACCORDANCE WITH VIRGINIA WORK AREA PROTECTION MANUAL REVISION 2J.

OUTSIDE TRAVEL LANE SHALL BE SHIFTED TO NEWLY CONSTRUCTED AREA FROM PHASE 1. INSIDE AND MIDDLE LANES WILL REMAIN IN THE SAME LOCATION AS PHASE 1.

CONSTRUCT GRADE SEPARATED LANE BETWEEN MIDDLE AND OUTSIDE LANES.

PHASE 3:

THE CONTRACTOR SHALL INSTALL TEMPORARY BARRIER, IMPACT ATTENUATORS, GUARDRAIL AND OTHER TRAFFIC CONTROL DEVICES AS SHOWN ON THE PLANS IN ACCORDANCE WITH VIRGINIA WORK AREA PROTECTION MANUAL REVISION 2J.

MIDDLE TRAVEL LANE WILL BE SHIFTED ONTO NEWLY CONSTRUCTED AREA FROM PHASE 2. INSIDE LANE WILL REMAIN IN THE SAME LOCATION AS PHASE 1.

CONSTRUCT GRADE SEPARATED LANE BETWEEN MIDDLE AND INSIDE LANES.

PHASE 4:

THE CONTRACTOR SHALL INSTALL TEMPORARY BARRIER, IMPACT ATTENUATORS, GUARDRAIL AND OTHER TRAFFIC CONTROL DEVICES AS SHOWN ON THE PLANS IN ACCORDANCE WITH VIRGINIA WORK AREA PROTECTION MANUAL REVISION 2J.

INSIDE TRAVEL LANE WILL BE SHIFTED ONTO NEWLY CONSTRUCTED AREA FROM PHASE 3.

CONSTRUCT INSIDE LANE SHOULDER AND MEDIAN BARRIER.

PHASE 5:

PLACE SURFACE COURSE AND PERMANENT PAVEMENT MARKINGS PER TTC-11.2

THE CONTRACTOR SHALL REMOVE THE REMAINING TEMPORARY TRAFFIC CONTROL DEVICES AT THE COMMENCEMENT OF CONSTRUCTION.

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDR Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: N/A

TEMPORARY TRAFFIC CONTROL PLAN SEGMENT 4A - CRITICAL SECTIONS

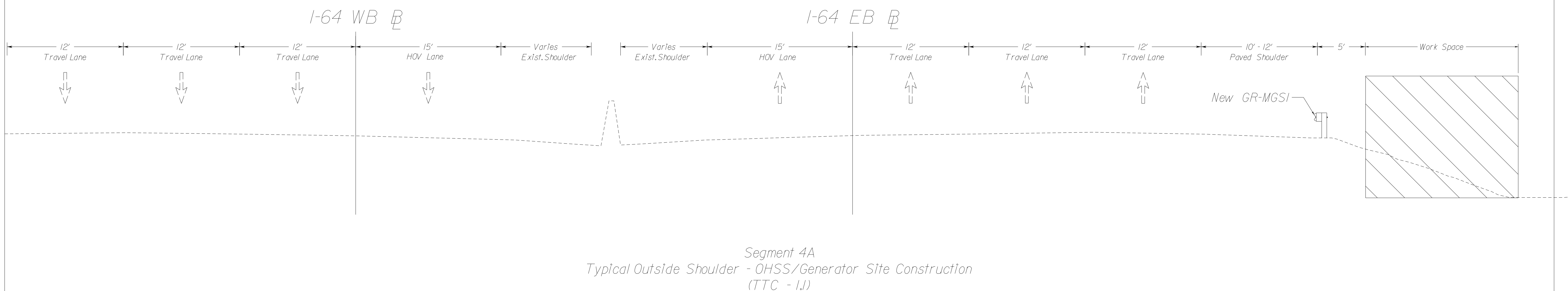
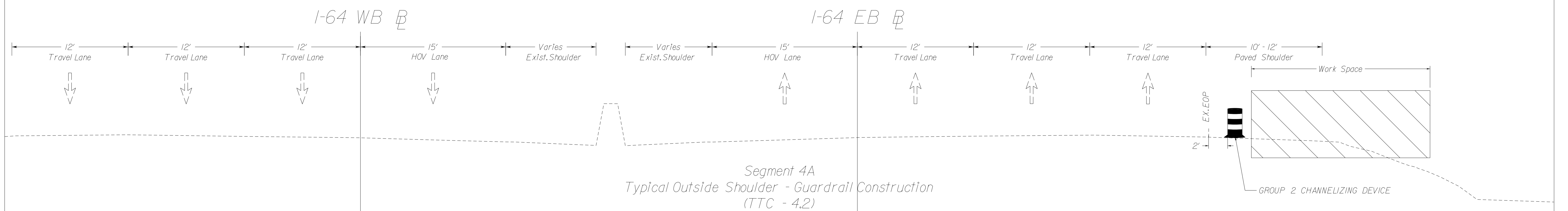
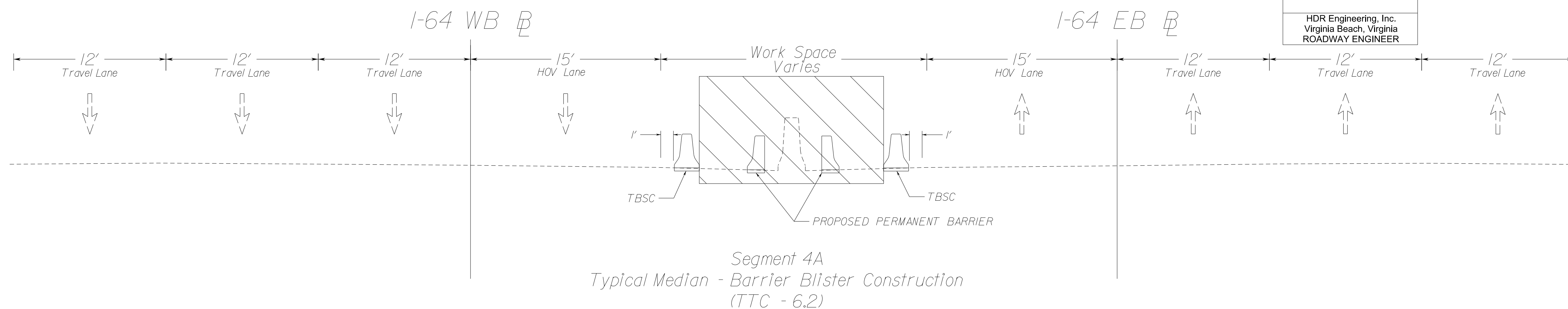
P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	1J(2A)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
ROADWAY ENGINEER



PROJECT	SHEET NO.
N.T.S.	1J(2A)

PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDR Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: N/A

TEMPORARY TRAFFIC CONTROL PLAN

SEGMENT 4B GRADE SEPARATED - CRITICAL SECTIONS

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	1J(2B)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

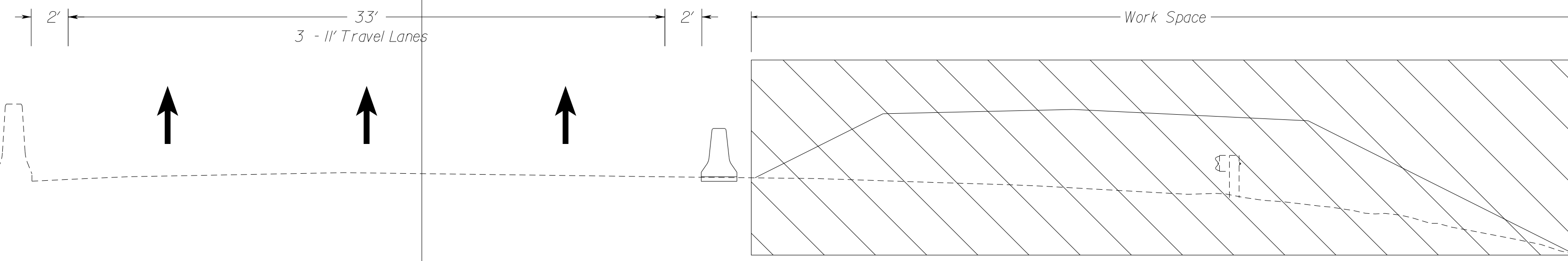
HDR Engineering, Inc.
Virginia Beach, Virginia
ROADWAY ENGINEER

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

I-64 WB \perp

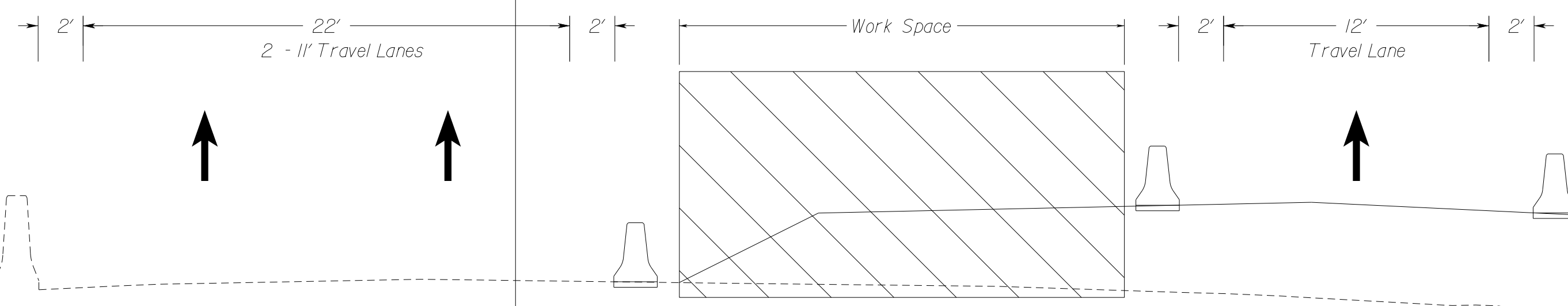
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Segment 4B
EB Grade Separated Phase 1
(TTC-40.2)

I-64 WB \perp

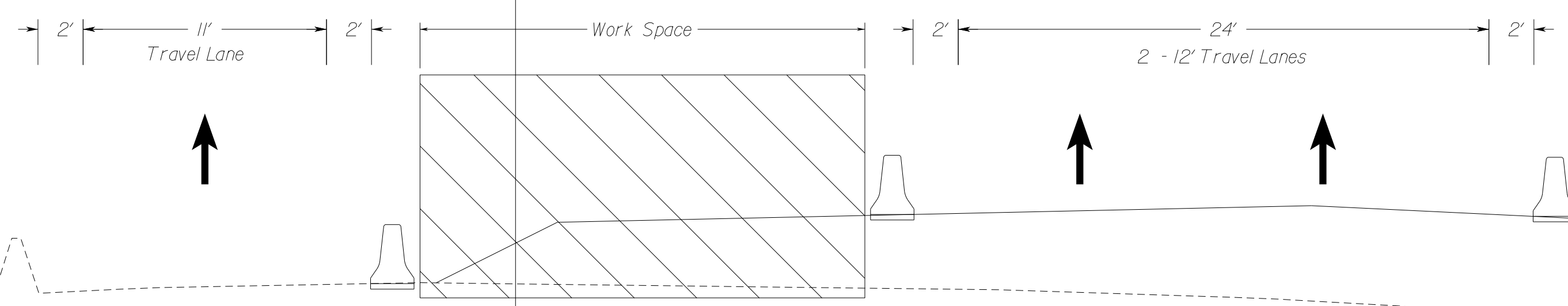
I-64 EB \perp



Segment 4B
EB Grade Separated Phase 2
(TTC-40.2)

I-64 WB \perp

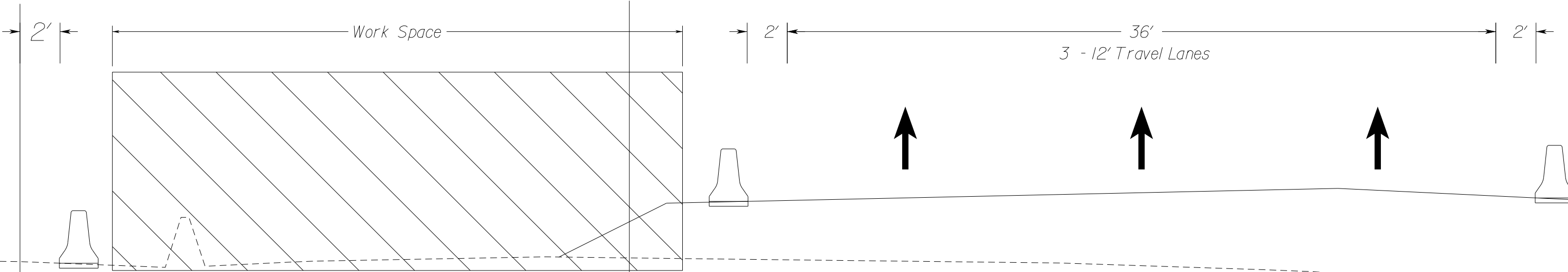
I-64 EB \perp



Segment 4B
EB Grade Separated Phase 3
(TTC-40.2)

I-64 WB \perp

I-64 EB \perp



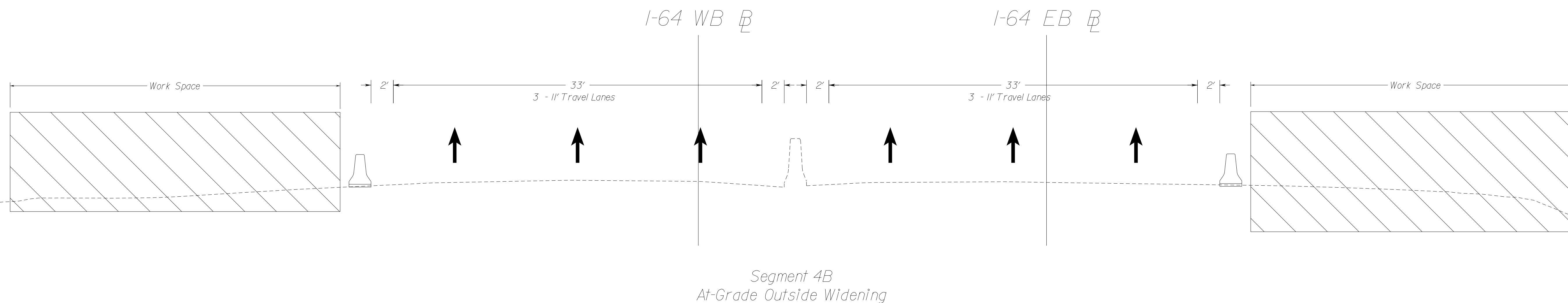
Segment 4B
EB Grade Separated Phase 4
(TTC-40.2)

N.T.S.	PROJECT 0064-121-418	SHEET NO. 1J(2B)
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PROJECT MANAGER *Erin Eoley, P.E. (757) 222-1500*
 SURVEYED BY, DATE *Ricoe Associates, Inc. (757) 306-4260*
 DESIGN BY *HDR Engineering, Inc.*
 SUBSURFACE UTILITY BY, DATE *N/A*

TEMPORARY TRAFFIC CONTROL PLAN SEGMENT 4B WIDENING CRITICAL SECTIONS

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	1J(2C)
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT				
HDR Engineering, Inc. Virginia Beach, Virginia ROADWAY ENGINEER				



P.H. PLANS

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N.T.S.	PROJECT 0064-121-418	SHEET NO. 1J(2C)
--------	-------------------------	---------------------

PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDR Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: N/A

GENERAL NOTES

REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA.	64	0064-121-418, P101	2

GRADING

- G-1 The grade line denotes top of finished pavement unless shown otherwise on typical sections or plans.
- G-3 Earthwork quantities on this project are based on anticipated settlement and may require adjusting during construction. Payment will be made only for quantities actually moved.
- G-4 The cost of removal of all existing concrete items located in the area to be graded, including, but not limited to the following, shall be included in the price bid for regular excavation: Sign Foundations, Access Drives, Generator Sites and Barriers
- G-6 The borrow material for this project shall be a minimum CBR_____ or as approved by the Materials Engineer.

DRAINAGE

- D-1 The horizontal location of all drainage structures shown on these plans is approximate only, with the exception of structures showing specific stations, special design bridges and storm sewer systems.
- D-2 The horizontal location and invert elevations shown for proposed culverts and storm sewer outfall pipes are based on existing survey data and required design criteria. If during construction, it is found that the horizontal location or invert elevations shown on the plans differ significantly from the horizontal location or elevations of the stream or swale in which the culvert or storm sewer outfall pipe is to be placed, the Engineer shall confer with, and get approval from, the applicable District Drainage Engineer before installing the culvert or storm sewer outfall pipe.
- D-3 The "H" dimensions shown on plans for drop inlets and junction boxes and the "L.F." dimensions shown for manholes are for estimating purposes and are based on the proposed invert elevations shown for the structure and the anticipated top (rim) elevation based on existing or proposed finished grade. The actual "H" or "L.F." dimensions are to be determined by the contractor from field conditions.
- D-7 All pipe on this project shall be concrete. For strength, sheet thickness, or class designation; available sizes; height of cover limitations; and other restrictions for a particular pipe type or height cover, see the applicable sections of the VDOT Road and Bridge Standards PC-1.
- D-9 A pipe joint length different from that stated on the plans may be used. An adjustment in the percentage of open joint (not to exceed 25% of the spigot length) or amount of bevel shall be made that will obtain the radius stated on the plans. Extra payment for this adjustment will not be allowed. The proposed adjustment shall be approved by the Engineer prior to installation of the pipe line.
- D-10 The proposed riprap may be omitted by the Engineer if the slope designated for placement of riprap is found to be comprised of solid rock or closely consolidated boulders with soundness, size and weight equal to, or exceeding, the specifications for the proposed riprap.
- D-11 The proposed granular filter blanket for the proposed riprap may be omitted by the Engineer if the slope on which it is to be placed is found to be comprised of material which is coarser than that specified for the proposed granular filter blanket.
- D-12 All existing drainage facilities labeled "To Be Abandoned" shall be left in place, backfilled and plugged in accordance with the VDOT Road and Bridge Standard PP-1. Basis of Payment will be C.Y. of Flowable Backfill.
- D-13 Existing drainage facilities being utilized as a part of the drainage system, and designated on the plans "To Be Cleaned Out" shall be cleaned as directed by the Engineer. The cost incidental to this shall be included in the contract price for other items.
- D-14 Proposed drop inlets with a height (H) less than the standard minimum shown in the VDOT Road and Bridge Standards shall be considered and paid for as Standard Drop Inlets for the type specified. Pipes with less than standard minimum finished height of cover shall be noted as such in the drainage description for the pipe. Specific pipe bedding and cover requirements are provided in the applicable PB-1 and PC-1 standard drawings of the VDOT Road and Bridge Standards.
- D-15 Where the plans specify the installation of standard curb drop inlets adjacent to the City of (specify City) Standard Curb and Cutter, the Standard Drop Inlets (as shown in the VDOT Road and Bridge Standards) shall be modified in accordance with details shown on sheet number (specify sheet number). These drop inlets shall be considered and paid for as Standard Drop Inlets for the type specified.
- D-17 St'd. SL-1 Safety Slab locations are based on the assumed use of precast structures. If cast-in-place structures are utilized, and the interior chamber dimensions (length and width, or diameter) are less than 4 feet, the safety slabs shall not be installed.

PAVEMENT

- P-2 The pavement materials on this project will be paid for on a tonnage basis. The weight will vary in accordance with the specific gravity of the aggregates and the asphaltic content of the mix actually used to secure the design depth. The weight of the asphalt concrete is based on 95% of the theoretical maximum density.

INCIDENTALS

- I-4 All trees located within the Clear Zone or within a minimum of 30 feet of the edge of pavement, within the limits of the right of way or construction easement, unless otherwise noted on plans or directed by the Engineer, shall be removed, as provided for a Section 301 of the applicable VDOT Road and Bridge Specifications.
- I-8A Clearing and grubbing shall be confined to those areas needed for construction. No trees or shrubs in ungraded areas shall be cut without the permission of the Engineer.
- I-16 The "underground utilities" survey data on this project has been provided by consultant and copies are available from the Department.
- I-18 All pavement markings and traffic flow arrows shown on the roadway construction plans are schematic only. The actual location and application of pavement markings shall be in accordance with Section 704 of the applicable VDOT Road and Bridge Specifications, MUTCD, sequence of construction/traffic control plans, pavement marking plan sheets ... thru ... and as directed by the Engineer.
- I-19 The following outside sources, under contract with VDOT, have provided information on this project.
 - Hydraulic Design - HDR Engineering
 - Roadway Design - HDR Engineering
 - Utility Design - N/A
 - Utility Designation - Rice Engineering
 - Utility Location - Rice Engineering
 - Survey - Rice Engineering
 - Bridge Design - HDR Engineering
 - Traffic Design - HDR Engineering
 - Landscape Design - N/A

If questions or problems arise during construction, please contact the Area Construction Engineer. **DO NOT CONTACT THE OUTSIDE SOURCES.**

- I-20 The Official Electronic PDF Version of the plans will override the paper copies or prints of specific layers.

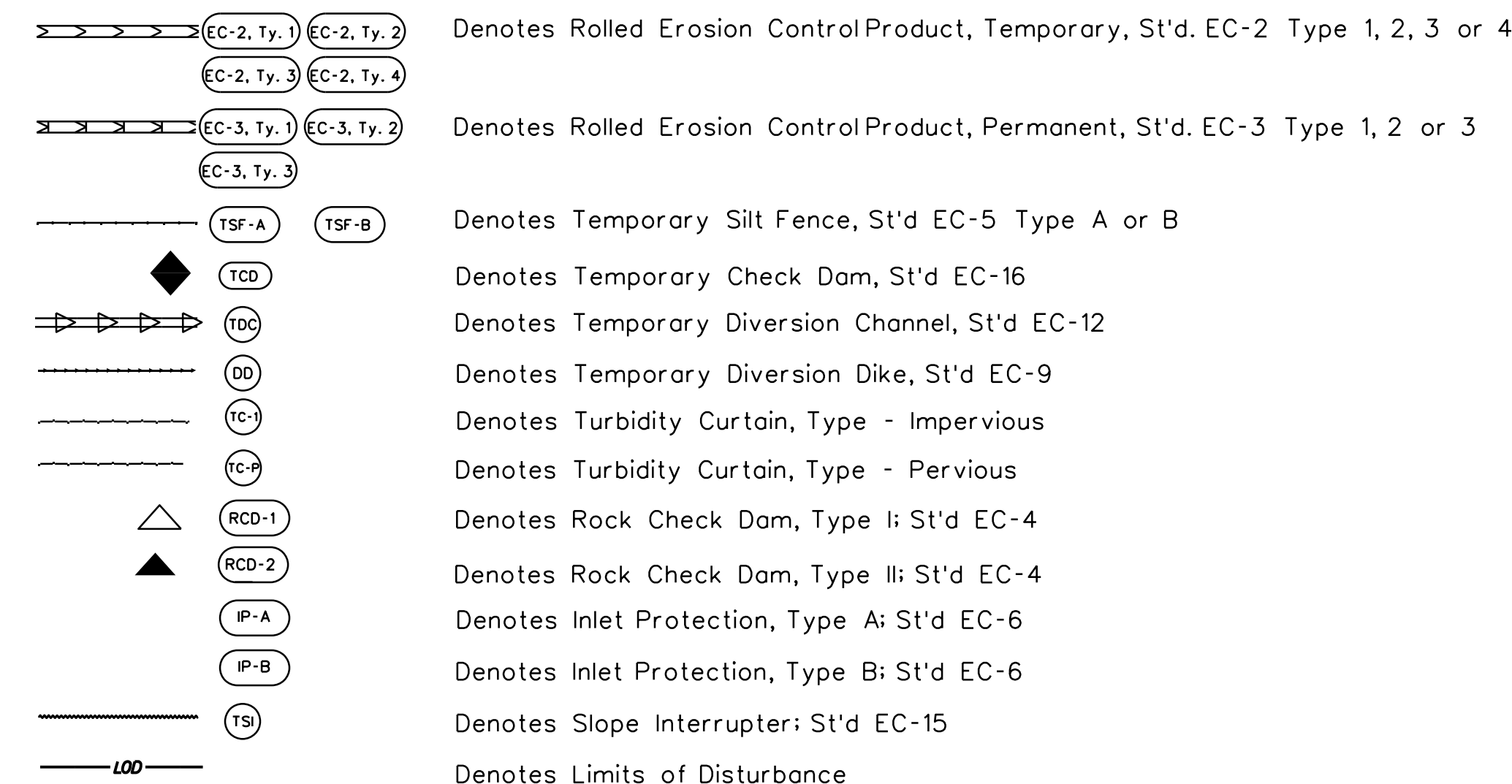
Portions of this plan assembly have been CADD generated. To assist in the preparation of the bid and construction of the project, MicroStation format (.dgn) files will be made available to the prime contractor during bids and after award of the contract.

- I-21 All electronic plan assemblies will include the construction plans in two formats: PDF files and MicroStation format (.dgn) files. Only the PDF files will be considered as part of the official plan assembly.

The MicroStation format (.dgn) files are furnished only as information for the contractor. These plans are developed in layers (levels) to aid in readability. (See the VDOT CADD Manual for CADD Level Structure). However, the construction items may or may not be in the proper layering scheme as described in the VDOT CADD Manual. The MicroStation files will only match the scanned files if all required levels are turned on. A MicroStation Software license is required to be able to read these files.

EROSION AND SEDIMENT CONTROL (ESC)

- E-1 If the removal of Brush Silt Barrier is specified by the plans or required by the Engineer, the cost of removal and disposal of brush shall be in accordance with Section 109 of the applicable VDOT Road and Bridge Specifications.
- E-2 Rock for Check Dams, Inlet Protection, Erosion Control Stone and Riprap shall be in accordance with Section 203 and Section 414 of the applicable VDOT Road and Bridge Specifications.
- E-3 The following symbols are used to depict Erosion Control items in the plan assembly:



- E-4 Permanent vegetation shall be established on all denuded areas not otherwise stabilized with non-erodible materials. See the Roadside Development Sheet for details on permanent vegetation establishment.

STORMWATER MANAGEMENT

- S-1 CLEARING AND GRUBBING OF SWM BASIN SITE - The area where the dam is to be constructed and the area upstream of the dam, to an elevation equal to the crest of the dam (maximum ponded water elevation), shall be cleared and grubbed in accordance with Section 301 of the applicable VDOT Road and Bridge Specifications.
- S-2 SWM BASIN DAM CONSTRUCTION - The dam for detention basins (no permanent pool) shall conform to the details contained in the plans and shall be constructed in accordance with Section 303 of the applicable VDOT Road and Bridge Specifications. The native material on which the dam will set shall meet the specifications for AASHTO Type A-4 or finer material. Where the native material does not meet this requirement, the area beneath the dam is to be excavated a minimum of 4' and backfilled with a material meeting the AASHTO Type A-4 or finer classification unless otherwise specified in the plans. The material used for the embankment of the dam shall be AASHTO Type A-4 or finer or otherwise specified in the plans. Dams with foundation and embankment material not meeting the above requirements or dams greater than 15' in height, or dams for retention basins (permanent pool) shall incorporate a membrane-lined trench, a homogenous embankment with seepage controls, a zoned embankment or other such approved designs as specified in the plans.
- S-3 SWM BASIN OUTLET PIPE - The pipe culvert under or through the dam for detention basins (no permanent pool) shall be reinforced concrete pipe with rubber gaskets in accordance with Section 232 and 212 of the applicable VDOT Road and Bridge Specifications. A concrete cradle shall extend the full length of the pipe culvert in accordance with the Standard Drawings. The connection between the pipe culvert and the SWM-1 Drainage Structure (or other control structure) shall be made watertight as approved by the Engineer and the cost shall be included in the price bid for pipe.
- S-4 The SWM-1 Drainage Structure (or other control structure) shall have 4" high numbers and 1" wide stripes painted at 1' intervals as shown on the Standard Drawings or detail sheets. The numbers and stripes are to be installed at the time of the initial installation of the SWM-1 Drainage Structure (or other control structure). Paint and application shall be in accordance with Section 231 and 411 of the applicable VDOT Road and Bridge Specifications and the cost is to be included in the price bid for the applicable structure.
- S-5 All SWM Basins designated for use as temporary sediment basins shall be constructed during the initial phase of earth moving activities or as specified by the plans or directed by the Engineer. During project construction, the SWM-1 Drainage Structure (or other control structure) shall be modified in accordance with the Standard Drawings or plan details in order to provide a temporary sediment basin with both a "wet" storage volume (permanent pool) and a "dry" storage volume. Sediment accumulated in the basin shall be removed when the volume of the "wet" storage (permanent pool) has been reduced by 50%. Sediment shall be disposed of in accordance with Section 106.04 of the applicable VDOT Road and Bridge Specifications. When project construction is complete to a stage where no additional sediment from the project is expected to enter the basin, as determined by the Engineer, the basin shall be cleaned out and restored to the original design elevations, the area stabilized and all temporary modifications to the SWM-1 Drainage Structure (or other control structure) removed.

P.H. PLANS

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PROJECT	SHEET NO.
0064-121-418	2

PROJECT MANAGER *Erin Foley, P.E.* (757) 222-1500
SURVEYED BY, DATE *Rice Associates, Inc.* (757) 306-4260
DESIGN BY *HDB Engineering, Inc.*
SUBSURFACE UTILITY BY, DATE *N/A*

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	2(1)

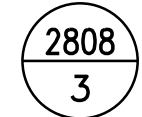
SIGNING GENERAL NOTES AND LEGEND

GENERAL NOTES - SIGNING

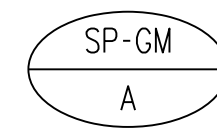
- UNLESS OTHERWISE APPROVED BY VDOT, EXISTING TRAFFIC SIGNS WHICH ARE TO BE REMOVED SHALL REMAIN IN PLACE OR BE RELOCATED UNTIL THE NEW SIGN STRUCTURE AND APPROPRIATE SIGN MESSAGE ARE IN PLACE
- ALL SIGNING SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS AND REVISIONS OF THE 2009 MUTCD, THE 2011 VIRGINIA SUPPLEMENT TO THE MUTCD, AND VDOT SPECIFICATIONS AND STANDARDS
- ALL SIGN PANELS, FRAMING MEMBERS, AND MISCELLANEOUS HARDWARE ON SIGNS TO BE REMOVED OR REPLACED SHALL BE PROPERLY REMOVED AND DISPOSED OF BY THE CONTRACTOR IN ACCORDANCE WITH VDOT SPECIFICATIONS
- NEW MATERIALS AND ITEMS REQUIRED TO COMPLETE THE REMOVAL OR MODIFICATION OR EXISTING ITEMS SHALL BE SUBMITTED TO VDOT FOR REVIEW AND APPROVAL IN ACCORDANCE WITH SECTION 105 OF THE VDOT SPECIFICATIONS
- THE REMOVAL OR MODIFICATION OF THE EXISTING SIGN PANELS, STRUCTURES, OR FOUNDATIONS SHALL CONFORM TO SECTION 510 OF THE VDOT SPECIFICATIONS
- ALL EXISTING AND PROPOSED SIGN LOCATIONS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR. THE CONTRACTOR SHALL STAKE ALL PROPOSED SIGN LOCATIONS AND RELOCATIONS FOR REVIEW AND APPROVAL BY VDOT PRIOR TO ANY INSTALLATION OR RELOCATION

6. DEFINITION OF SYMBOLS:

PROPOSED RELOCATED



- THE TOP SECTION INDICATES THE SIGN NUMBER
- THE BOTTOM SECTION INDICATES THE TEXT NUMBER



- THE TOP SECTION INDICATES TYPE OF STRUCTURE OR SIGN PANEL (SEE "DEFINITION OF TYPES")
- THE BOTTOM SECTION INDICATES THE MEASUREMENT AND PAYMENT ITEM (SEE "CONSTRUCTION NOTES")

DEFINITION OF TYPES

- SP-GM - SUPPORT POST GROUND MOUNT
- SP-MBM - SUPPORT POST MEDIAN BARRIER MOUNT
- OH-STR - OVERHEAD SIGN STRUCTURE
- SN-BD - SIGN BANDED
- SN-BM - SIGN BRIDGE MOUNTED
- OH-DMS - OVERHEAD DYNAMIC MESSAGE SIGN

CONSTRUCTION NOTES

- REMOVE AND DISPOSE OF EXISTING OVERHEAD SIGN PANEL AND ALL ASSOCIATED EQUIPMENT FROM THE OVERHEAD STRUCTURE
- REMOVE AND DISPOSE OF EXISTING OVERHEAD SIGNS, OVERHEAD SIGN STRUCTURE, AND ALL ASSOCIATED EQUIPMENT
- REMOVE AND DISPOSE OF GROUND MOUNTED SIGNS AND SUPPORTS
- REMOVE AND DISPOSE OF MEDIAN BARRIER MOUNTED SIGNS AND SUPPORTS
- REMOVE AND DISPOSE OF EXISTING BANDED SIGN PANEL FROM EXISTING STRUCTURE
- INSTALL OVERHEAD SPAN DMS STRUCTURE
- INSTALL OVERHEAD SPAN SIGN STRUCTURE
- INSTALL MEDIAN BARRIER MOUNTED SIGN
- INSTALL BUTTERFLY STRUCTURE
- INSTALL OVERHEAD CANTILEVER SIGN STRUCTURE

SIGNING LEGEND

EXISTING	PROPOSED	DESCRIPTION
		SIGN PANEL
		GENERAL USE LANES DYNAMIC MESSAGE SIGN (DMS)
		TOLL PRICING DYNAMIC MESSAGE SIGN (DMS)
		EXPRESS LANE INFORMATIONAL DYNAMIC MESSAGE SIGN (DMS)
		GROUND MOUNTED SINGLE POST SIGN STRUCTURE
		GROUND MOUNTED MULTI-POST SIGN STRUCTURE
		OVERHEAD SPAN SIGN STRUCTURE
		OVERHEAD CANTILEVER SIGN STRUCTURE
		BRIDGE MOUNTED SIGN PANEL
		OVERHEAD BUTTERFLY SIGN STRUCTURE
		TOLL GANTRY

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROJECT MANAGER *Erin Foley, P.E.* (757) 222-1500
SURVEYED BY, DATE *Rice Associates, Inc.* (757) 306-4260
DESIGN BY *HDB Engineering, Inc.*
SUBSURFACE UTILITY BY, DATE *N/A*

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	2(2)



DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

PAVEMENT MARKING GENERAL NOTES AND LEGEND

GENERAL NOTES - PAVEMENT MARKING

1. ALL PROPOSED MARKINGS SHALL BE RETROREFLECTIVE, TYPE B, CLASS VI PAVEMENT MARKINGS, UNLESS OTHERWISE NOTED
2. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS AND REVISIONS OF THE 2009 MUTCD, THE 2011 VIRGINIA SUPPLEMENT TO THE MUTCD, AND VDOT SPECIFICATIONS AND STANDARDS, UNLESS OTHERWISE NOTED
3. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING PAVEMENT MARKINGS TO CONNECT TO EXISTING PAVEMENT MARKINGS, IN ACCORDANCE WITH THE 2009 MUTCD, THE VIRGINIA SUPPLEMENT TO THE MUTCD, AND THE CURRENT VDOT SPECIFICATIONS AND STANDARDS
4. INLAID RAISED PAVEMENT MARKERS ARE TO BE INSTALLED ON PROPOSED PAVEMENT MARKINGS AS SHOWN IN THE PLANS AND SHALL BE IN ACCORDANCE WITH VDOT DRAFT IIM-TE-393
5. EXISTING PAVEMENT MARKINGS AND RAISED PAVEMENT MARKERS THAT CONFLICT WITH THE PROPOSED MARKINGS SHOWN HEREIN SHALL BE ERADICATED
6. EXISTING HOV DIAMOND PAVEMENT SYMBOLS SHALL BE ERADICATED THROUGHOUT THE CORRIDOR
7. PAVEMENT MARKING ARROWS, WORDS, AND SYMBOLS SHALL BE IN ACCORDANCE WITH VDOT ROAD AND BRIDGE STANDARD PM-10
8. INSTALL 36" HEIGHT, WHITE COLORED, PEXCO-DAVIDSON TRAFFIC CONTROL PRODUCTS FG 300 TUBULAR DELINEATORS AT 8 FOOT SPACING WITHIN THE EXPRESS LANE BUFFER (SEE "EXPRESS LANE BUFFER DETAIL")

PAVMENT MARKING LEGEND

EXISTING	PROPOSED	DESCRIPTION
NOT USED	● ● ●	TUBULAR MARKERS (8' CENTER)
NOT USED		PAVEMENT MESSAGE (TYPICAL)
NOT USED		INLAID RAISED PAVEMENT MARKER

P.H. PLANS

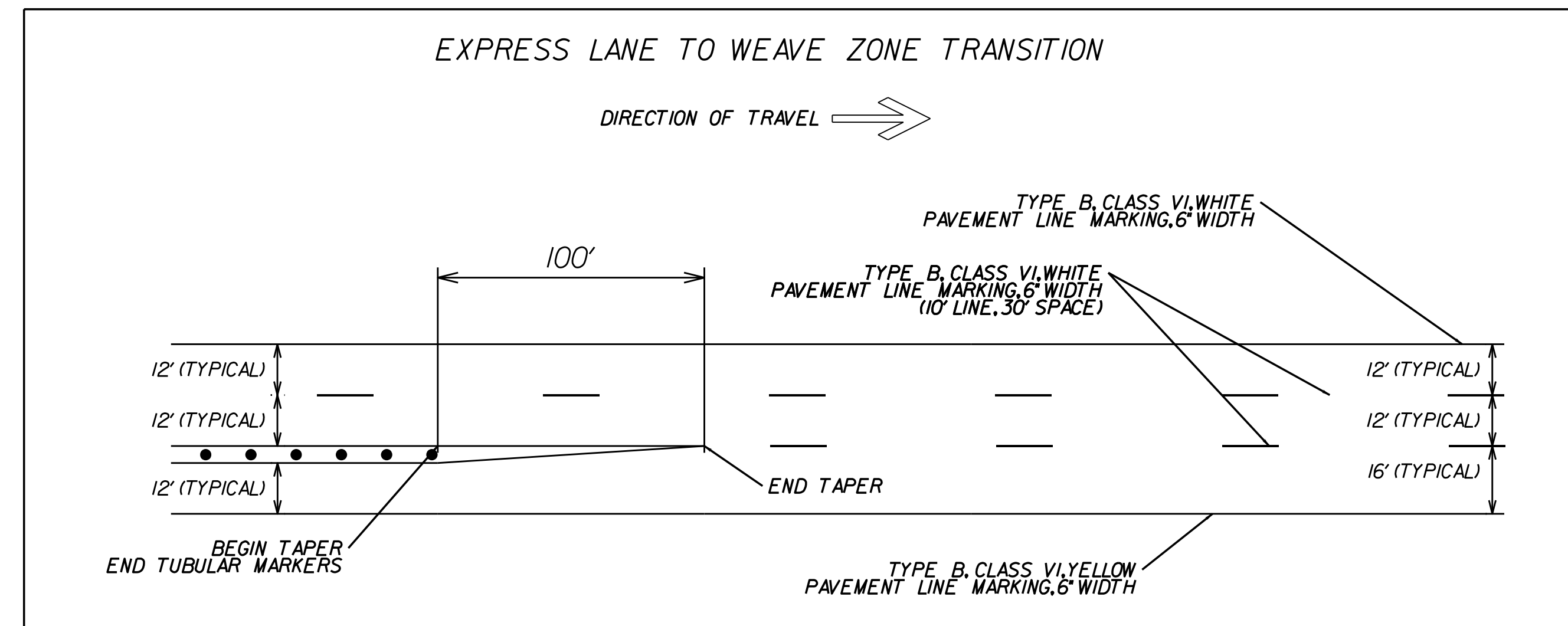
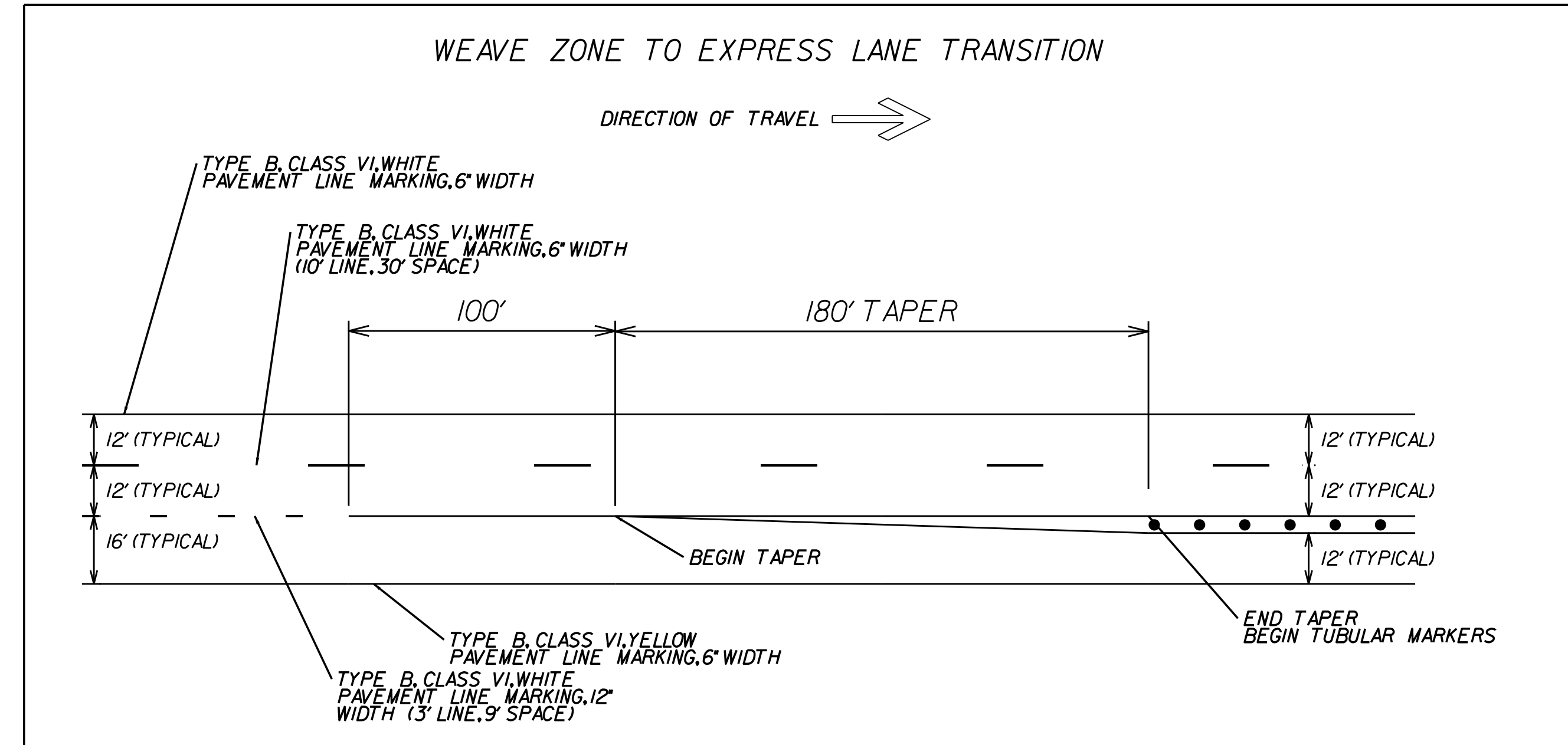
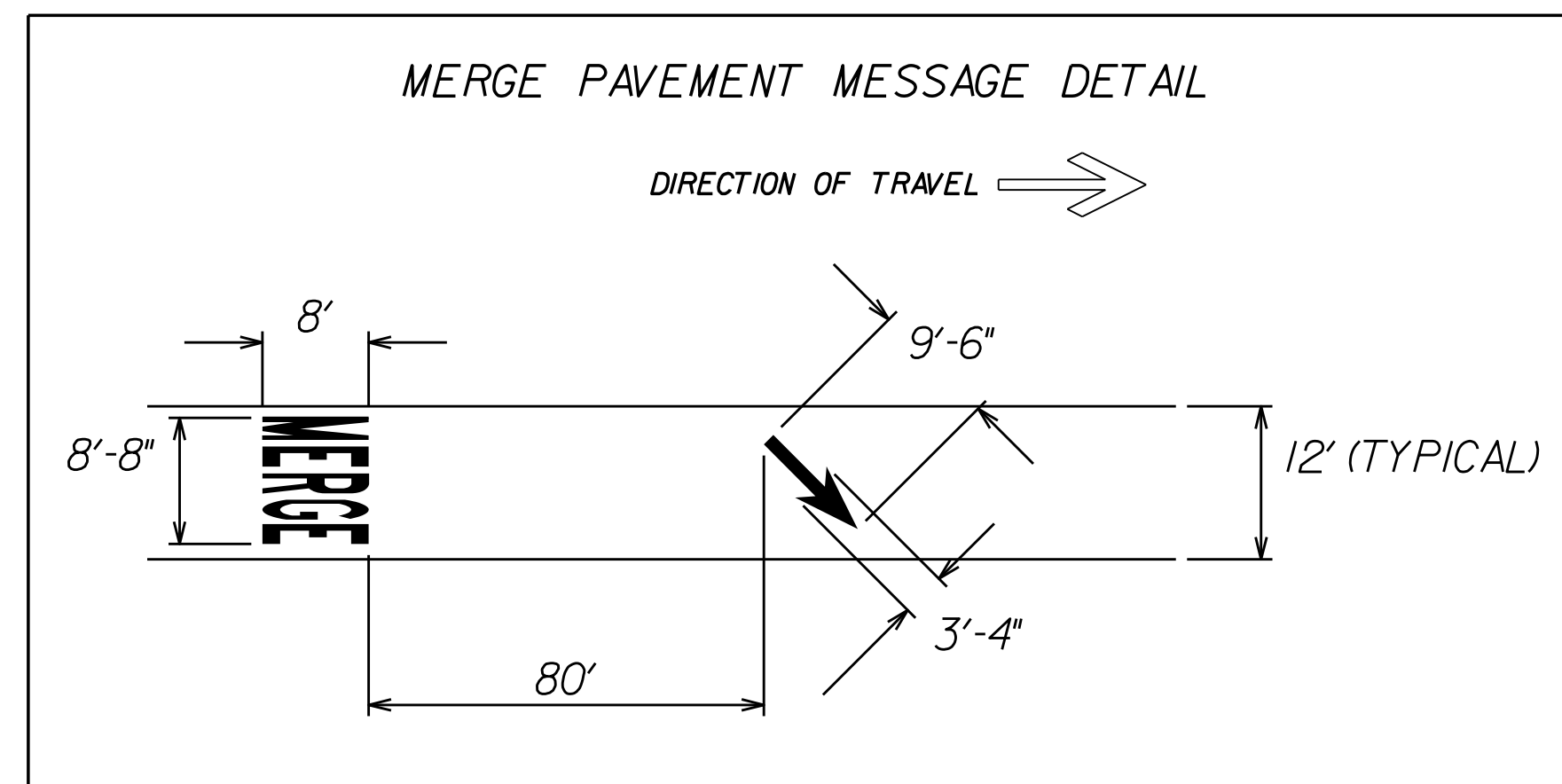
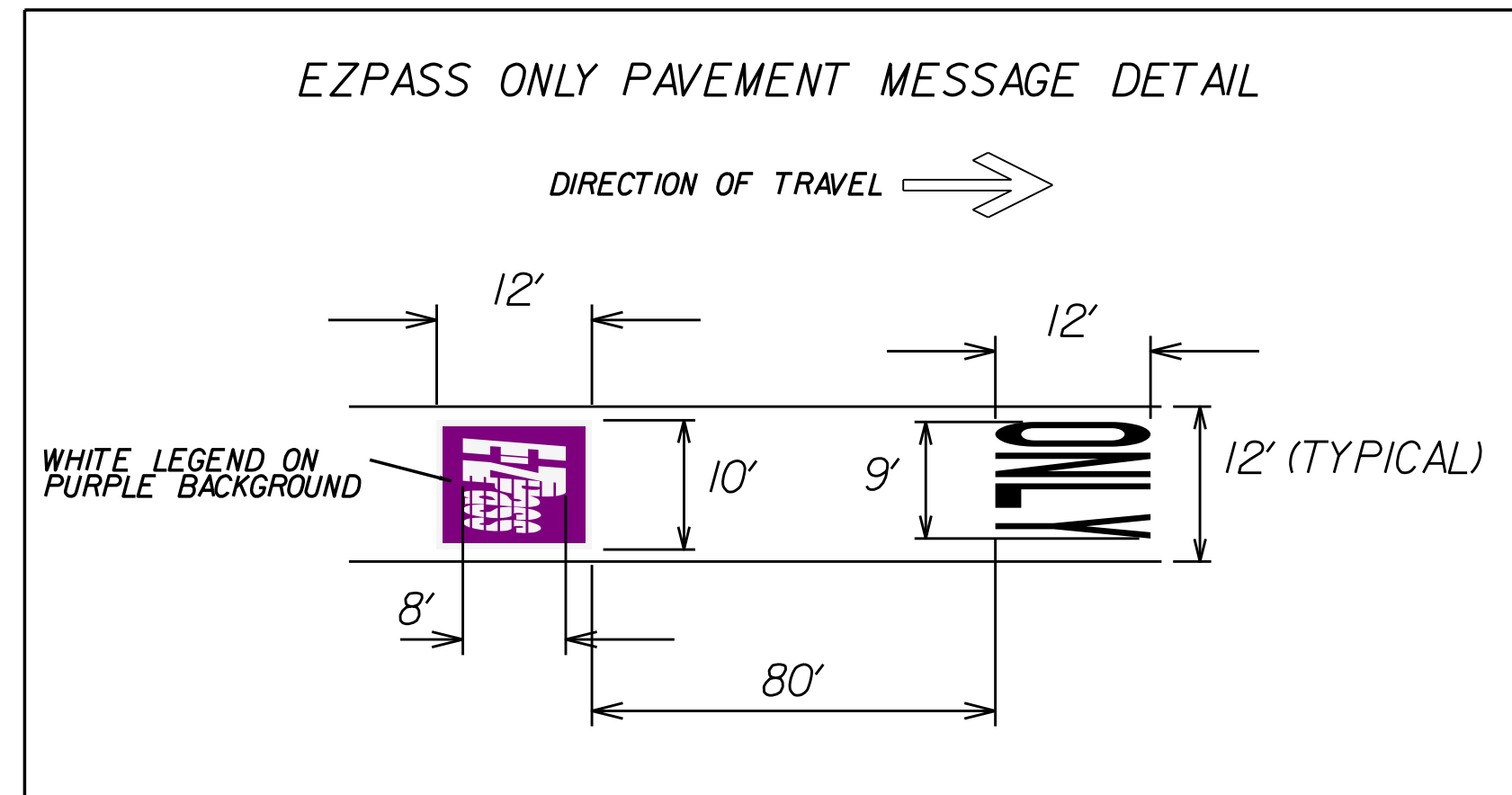
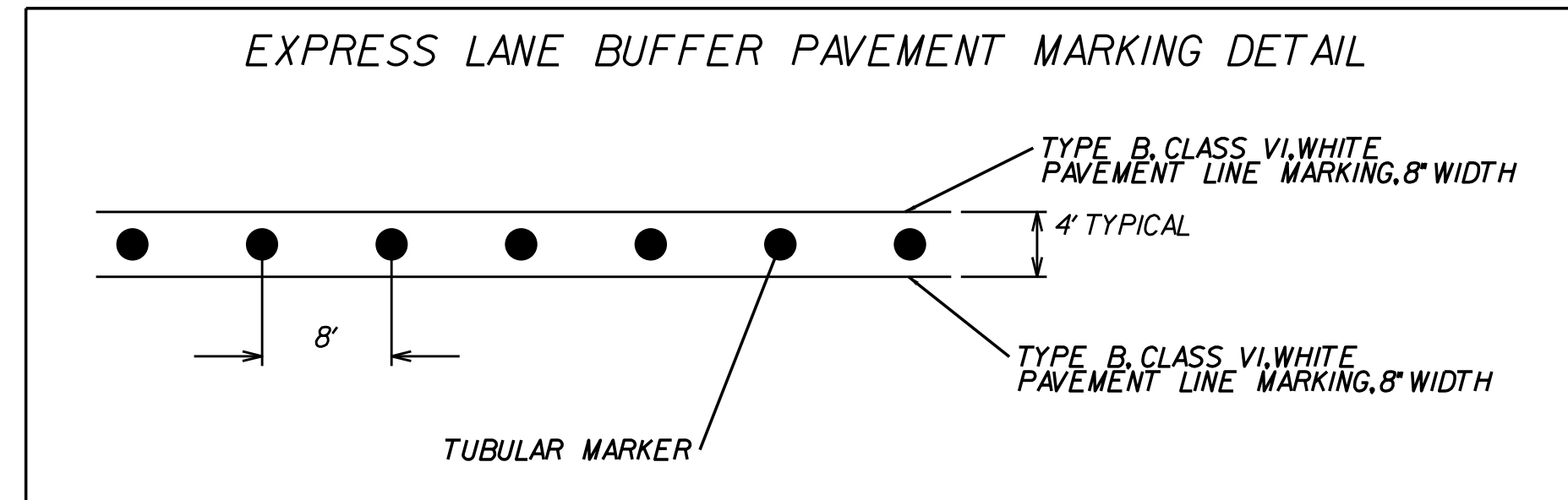
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROJECT MANAGER Erlin Easley, P.E. (757) 222-1500
SURVEYED BY, DATE Rice Associates, Inc. (757) 306-4260
DESIGN BY HDR Engineering, Inc.
SUBSURFACE UTILITY BY, DATE N/A

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	2(3)

PAVEMENT MARKING DETAILS

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



P.H. PLANS

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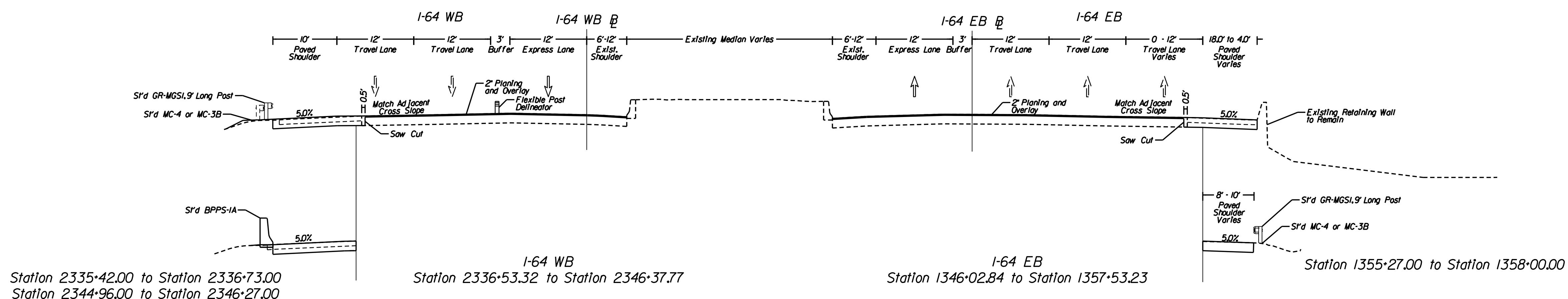
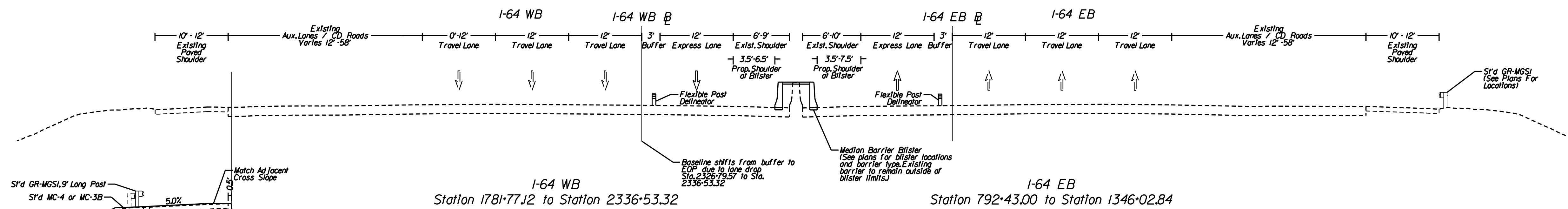
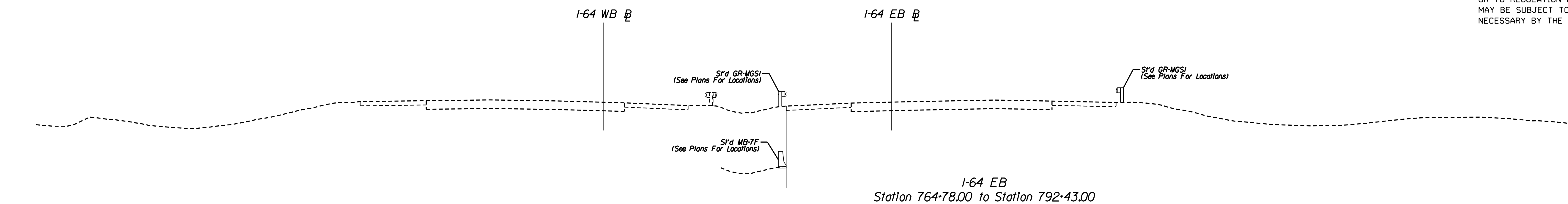
PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDR Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: N/A

TYPICAL SECTIONS

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	2A(1)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
ROADWAY ENGINEER



P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

Not to Scale	PROJECT 0064-121-418	SHEET NO. 2A(1)
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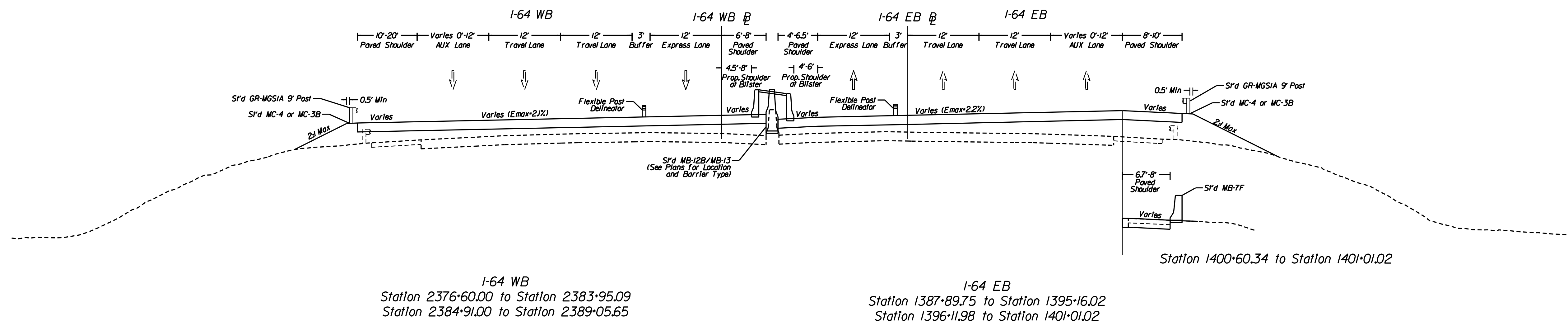
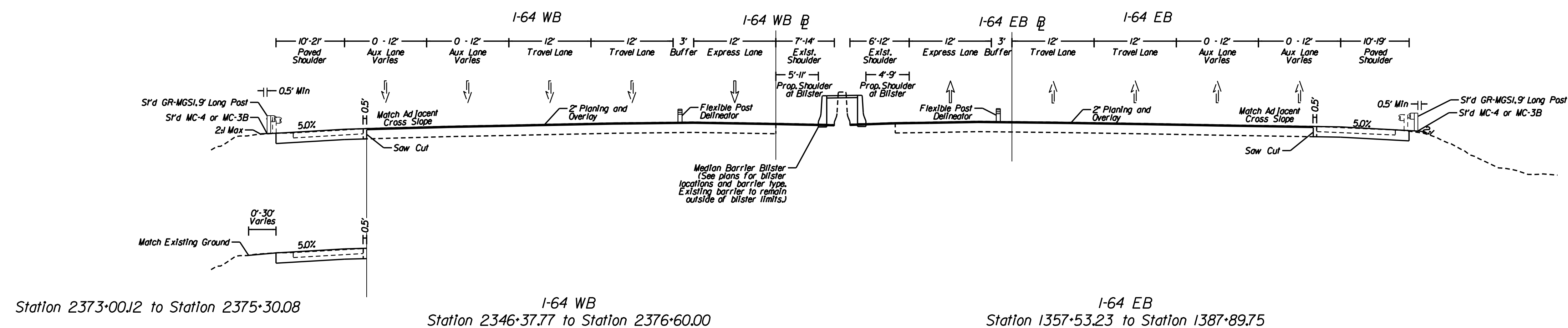
PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineer/ing, Inc.
SUBSURFACE UTILITY BY, DATE: N/A

TYPICAL SECTIONS

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	2A(2)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
ROADWAY ENGINEER



P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

Not to Scale	PROJECT 0064-121-418	SHEET NO. 2A(2)
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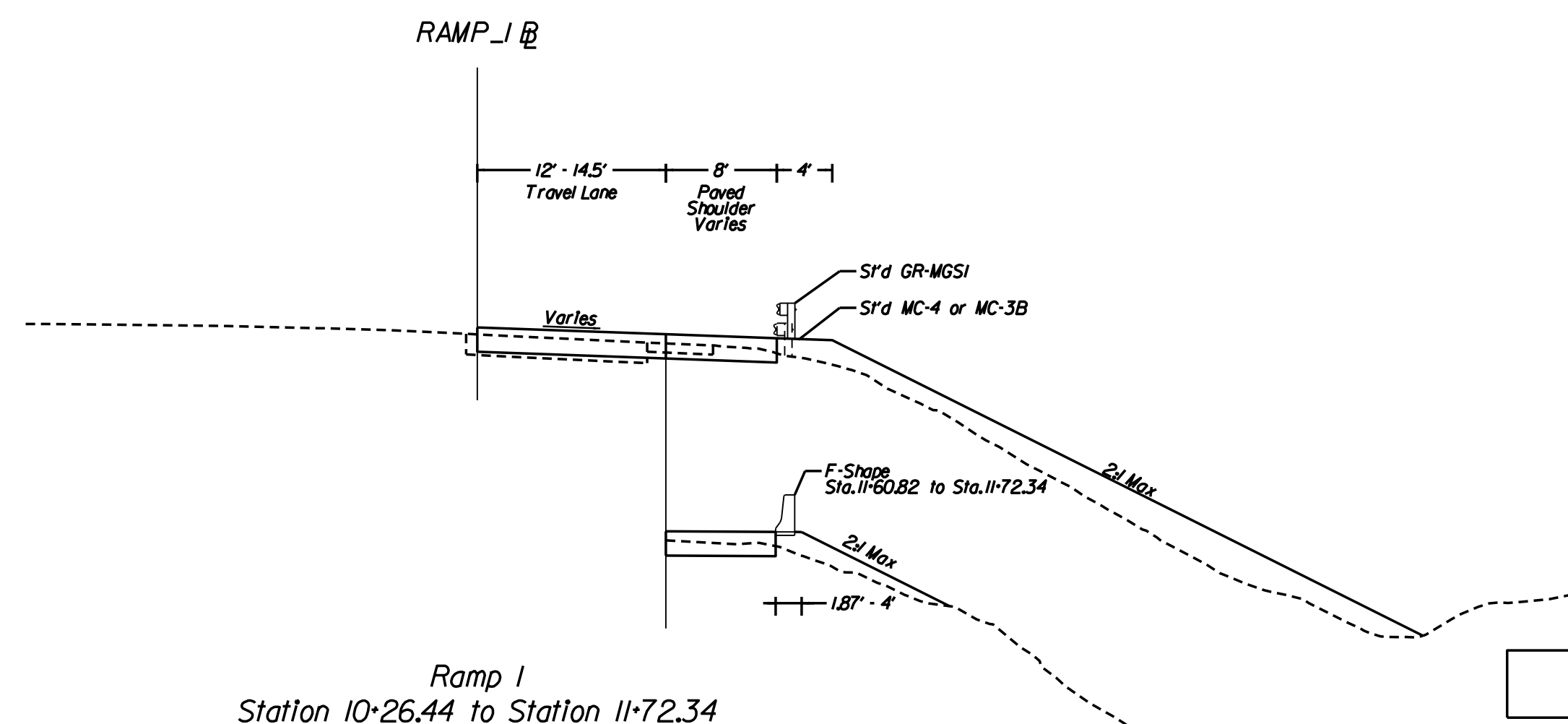
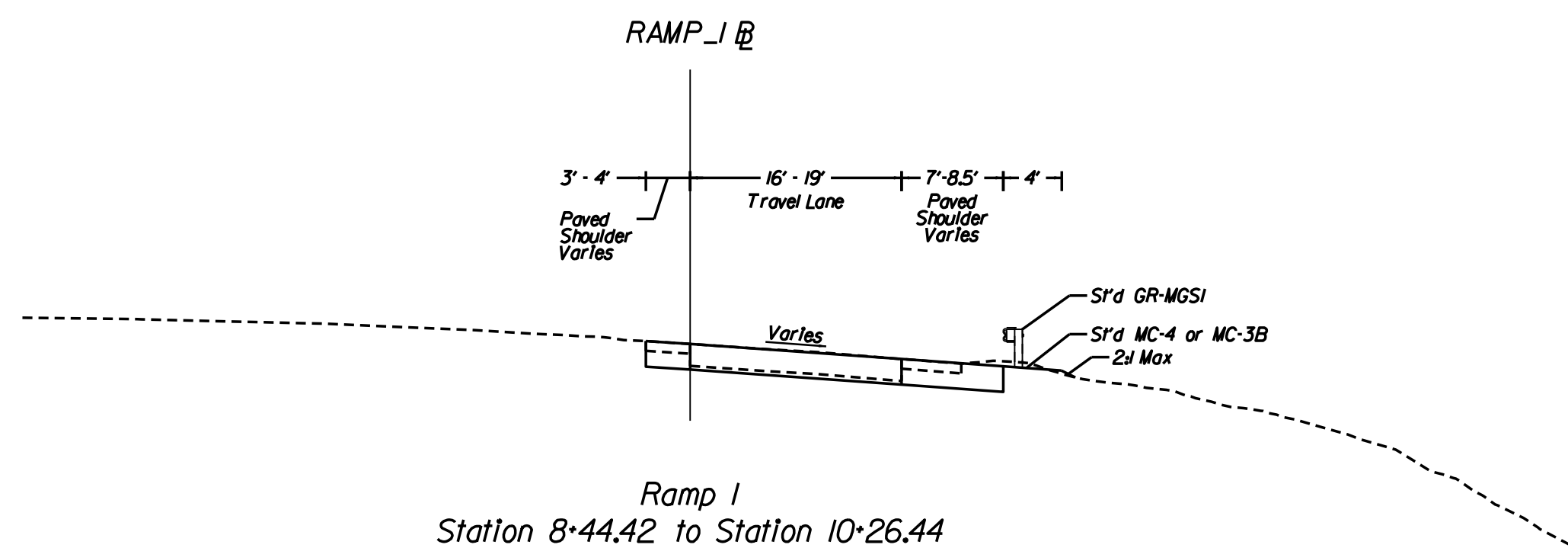
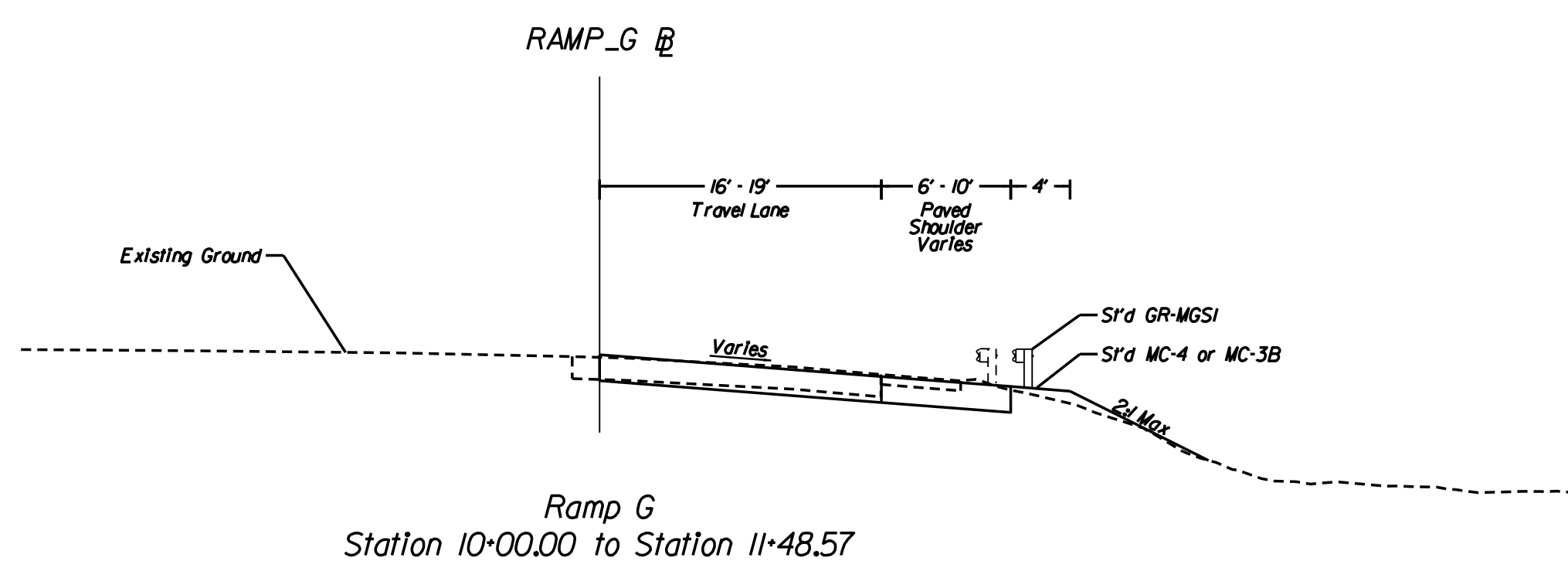
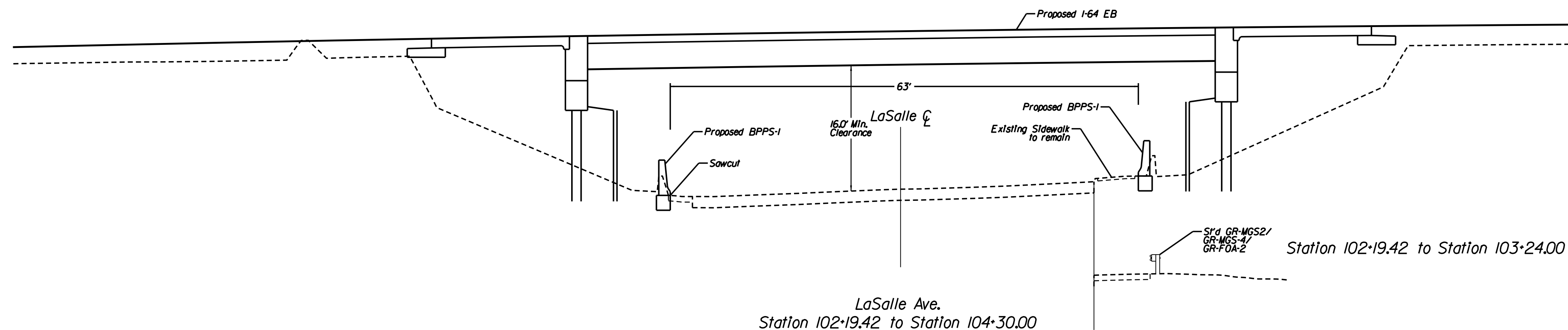
PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: N/A

TYPICAL SECTIONS

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	2A(3)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
ROADWAY ENGINEER



P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

Not to Scale	PROJECT 0064-121-418	SHEET NO. 2A(3)
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PROJECT MANAGER *Saivi Ja Hofbeiner, P.E. (757) 956-3082 (Hampton Roads District)*
 SURVEYED BY, DATE *Ivan R. Liberey, L.S. (757) 368-0945 (Precision Measurements, Inc.), 05-02-2018*
 DESIGN BY *Claudia Walsh, P.E. (757) 222-1500 (HDR, Engineering, Inc.)* -----
 SUBSURFACE UTILITY BY, DATE *Ivan R. Liberey, L.S. (757) 368-0945 (Precision Measurements, Inc.), 04-2018*

STORMWATER POLLUTION PREVENTION PLAN (SWPPP) GENERAL INFORMATION SHEET

REVISED	STATE	STATE		SHEET NO.
	ROUTE	PROJECT		
	VA.	64	0064-121-418, P101	2C(1)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

X Denotes information that is to be provided/completed by the RLD.

XX Denotes information that is to be provided/completed by the contractor.

The information contained in the SWPPP General Information sheets is intended to comply with the requirements of the VPDES General Permit For Discharges Of Stormwater From Construction Activities (the VPDES Construction Permit) issued July 1, 2019 and VDOT's approved Annual ESC and SWM Standards and Specifications.

The SWPPP General Information sheets are to be completed and included in the construction plan set (or other such documents) for land disturbance activities that disturb an area equal to or greater than 10,000 square feet outside the Chesapeake Bay Preservation Area, or equal to or greater than 2,500 square feet in the area defined as Tidewater, Virginia in the Virginia Chesapeake Bay Preservation Act.

The VDOT RLD (as defined in the latest IIM 242) will ensure that the information shown on the SWPPP General Information sheets is updated/ revised as necessary in order to reflect changes that may occur during the construction phase of the land disturbing (construction) activity. The updated/ revised sheets shall be maintained with the designated record set of plans (or other such documents) for the land disturbance (construction) activity.

XX 4. The location of on-site support facilities that will be covered under the VPDES Construction Permit coverage for this land disturbance (construction) activity shall be provided by the contractor and identified on the record set of plans or in other appropriate contract documents. Support facilities shall include, but not be limited to, borrow and disposal areas, construction and waste material storage areas, equipment and vehicle washing, maintenance, storage and fueling areas, storage areas for fertilizers, fuels or chemicals, concrete wash out areas, sanitary waste facilities and any other areas that may generate a stormwater or non-stormwater discharge directly related to the construction site.

XX 5. Written Evidence of permit coverage shall be provided by the contractor for all support activities located outside of VDOT right of way or easement in the form of the Construction General Permit coverage letter: (List VPDES Permit # or Letter from VSMP Authority stating coverage not needed)

~~6. List the surface waters that have been identified as impaired in the DEQ 2012-305(b)/303(d) Water Quality Assessment Integrated Report for sediment, total suspended solids, turbidity, Nitrogen or Phosphorus. These pollutants are considered benthic impairments (List the impaired surface waters, when applicable).~~

7. Identify the TMDL's where stormwater from construction activities discharges into a watershed with a TMDL waste load allocation established and approved by the State Water Control Board prior to July 1, 2016 for sediment, total suspended solids, turbidity, nitrogen or phosphorus: Chesapeake Bay (Sediment, Nitrogen, and Phosphorus).

~~8. This land disturbance activity discharges stormwater to the following surface waters that have been identified as exceptional in Section 9VAC25-260-30 A 3 c of the Virginia Administrative Code: (List name of surface waters) or not applicable.~~

9. Locations of surface waters and locations where concentrated stormwater is discharged from this land disturbance (construction) activity are identified in the construction plan set (or other such documents) for this land disturbance (construction) activity. (List name of surface waters and locations here if not shown in construction plan or other such documents).

10. The ESC and SWM plans (where applicable) for this land disturbance (construction) activity have been developed in accordance with VDOT's Approved Annual Erosion and Sediment Control and Stormwater Management Standards and Specifications as approved by the DEQ.

11. List the RLD and other responsible parties for the land disturbance activity: (required for erosion and sediment control). The following individual(s) have "delegated authority" to sign all reports required by the construction permit including the SWPPP General Information Sheets and Inspection Reports (C-107). Reference form LD-445H for delegation of authority (form 445H for the project is hereby incorporated by reference into this SWPPP). These individual(s) has/have overall responsibility or the environmental matters for the project: (required only for permitted projects):

Name	Position	Responsibility
	RLD	Certify the SWPPP (with date & sig.)
	Certified Inspector	Sign (C-107) Inspection Form Part 1
	Certified Inspector	Sign (C-107) Inspection Form Part 2

X 12. The name of the VDOT individual(s) responsible for the oversight inspection in accordance with IIM-LD-256 on these land disturbance construction activities as identified on these SWPPP General Information Sheets. The names will be updated and maintained with the other SWPPP documents for this land disturbance activity.

VDOT Individuals	Position	Responsibility
	NPDES	NPDES coordinator responsible for the oversight inspection in accordance with IIM-LD-256
	Dist. Hyd. Engineer	District Hydraulic Engineer or designee(s) responsible for the review & the coordination approval of ESC SWM plan modification(s).

X 13. The ESC and P2 inspections for this land disturbing (construction) activity shall follow (Select Schedule 1 or 2, if schedule #2 is used, void note #14) as defined in 2016 R&B Specifications except for Section 107.16(e) 4. an Inspection Requirements Rain gauge notes apply only to Inspection Schedule 1.

XX 14. The location of the on-site rain gage that will be used to determine the occurrence of a measurable storm event for the purposes of ESC and Pollution Prevention inspections will be provided by the contractor and identified on the record set of plans or in other appropriate SWPPP documents for this land disturbance activity: (List location of rain gage).

The rain gage shall be observed daily at "_____" to determine the occurrence of a measurable storm event (i.e., 0.25 inches of rainfall or greater in a 24 hour period). A log book shall be maintained to record observation information which shall include (1) the date, (2) the time, (3) whether or not rainfall is occurring at the time of the observation, (4) the amount of accumulated rainfall in the gage, if any, and (5) whether or not an inspection is required based on the amount of accumulated rainfall in the gage. If there is no rainfall occurring at the time of the observation, the observation information shall be noted in the log book and the rain gage emptied and replaced. An inspection is required if there is 0.25 inches or more accumulation noted in the rain gage. If there is rainfall occurring at the time of the observation, the observation information is to be noted in the log book. The rain gage is not to be emptied but left to accumulate additional rainfall until the conclusion of the rainfall event. At the conclusion of the rainfall event, an observation of the rain gage shall be made and the observation information shall be noted in the log book and the rain gage emptied and replaced. An inspection is required if there is 0.25 inches or more accumulation noted in the rain gage.

15. The following VDOT documents are applicable to a) permitted projects b) non-permitted projects in Chesapeake Bay Preservation Areas (CBPA) with 2,500 S.F. to 1.0 acre of land disturbance c) non-permitted projects requiring a SWPPP and d) Non-permitted, Non-CBPA with BMP projects that have a water quantity BMP:

- VDOT LD-445: Permitted projects, CBPA projects and Non-permitted, Non-CBPA with BMP projects that have a water quantity BMP and ESC projects > 10,000 s.f. but <1 acre.
- VDOT LD-445A: Permitted projects only.
- VDOT LD-445C: Projects that require a permit, ESC Plan, or SWPPP.
- VDOT LD-445D: Permitted projects, CBPA projects and Non-permitted, Non-CBPA with BMP projects that have a water quantity BMP.
- VDOT LD-445F: Emergency work projects (when applicable).
- Water Quality Requirement (when applicable)
- VDOT LD-445H: Permitted projects only.
- VDOT C-107 Part I and Part II. All projects that require a permit or SWPPP.
- VDOT LD-445I: AS&S Approval Form (when applicable)

16. If there is an excessive loading of sediment from the project (i.e. more than to be expected from the project with an implemented ESC plan) that is discovered within a local watershed with a sediment TMDL that allocates a WLA to VDOT's MS4, (see note #7) the contractor shall investigate the area of concern at the site within 24 hours of discovery and ensure all erosion and sediment control best management practices are being implemented in accordance with the permits approved standards and specifications required by Part I.B of the current Construction General Permit. If corrective action is necessary, the contractor shall initiate corrective actions no later than 5 business days after the initial investigation.

17. If excessive loading of sediment from a land disturbing activity that is not the responsibility of the contractor is discovered discharging into a MS-4, the contractor shall notify the municipality with jurisdiction over erosion and sediment control activities.

I certify under penalty of law that I have read and understand this document and that this document and all attachments were prepared in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

I further certify that this document and all other documents related to the SWPPP, as identified on the SWPPP General Information Sheets, are maintained at the activity site, or at a location convenient to the activity site where no on-site facilities are available, and such documents will be made available for review upon request in accordance with the provisions of the General VPDES Permit for Discharges of Stormwater from Construction Activities (VAR10) when applicable. Where the SWPPP documents are not stored on-site, a copy of such documents shall be in the possession of those with day to day operational control over the implementation of the SWPPP whenever they are on site.

* or ** Delegated Authority Signature**

Signature: _____
 Printed Name: _____
 Date: _____

(1) See Section 1, Item 11 relating to delegation of authority, and form LD-445H (Delegation of Authority).

ACRONYMS

CBPA - Chesapeake Bay Preservation Act	SWPPP - Stormwater Pollution Prevention Plan
BMP - Best Management Practice	TMDL - Total Maximum Daily Load
DEQ - Department of Environmental Quality	VDOT - Virginia Department of Transportation
EPA - U.S. Environmental Protection Agency	VPDES - Virginia Pollutant Discharge Elimination System
ESC - Erosion and Sediment Control	VSMP - Virginia Stormwater Management Program
IIM - Instructional and Informational Memorandum	VESCP - Virginia Erosion and Sediment Control Program
R&B - Road and Bridge	WLA - Waste Load Allocation
RLD - Responsible Land Disturber	SWM - Stormwater Management

SECTION I GENERAL INFORMATION

- Activity Description: The Interstate I-64 Segment 4A/4B HREL project work involves conversion of the I-64 High Occupancy Vehicle (HOV) lanes to High Occupancy Toll (HOT) lanes in both directions at the existing HOV lane location and convert a general purpose lane to a HOT lane where the existing HOV lane ends to the east side of the bridge over Armistead Avenue. The total project length is approximately 11.5 miles. The work also involves widening of I-64 in both directions for approximately 1 mile from the end of existing HOV lane to the east side of the bridge at Armistead Avenue. Typical sections of the project corridor are shown in Figure 1. This project is in the cities of Newport News and Hampton.
- This land disturbance (construction) activity site is in the City of Hampton and Newport News and approximately 12.81 acres will be disturbed by excavation, grading or other construction activities.
- ~~This proposed activity disturbs more than 2,500 SF and shall comply with VPDES General Permit for Discharges of stormwater from construction activities (the VPDES Construction Permit) as issued by DEQ. This project shall also comply with Chesapeake~~

PROJECT MANAGER *Salvi, Ja. Hafelmeier, P.E. (757) 956-3082 (Hampton Roads District)*
 SURVEYED BY, DATE *Ivan, B. Linberry, L.S. (757) 368-0945 (Precision Measurements, Inc.), 05-02-2018*
 DESIGN BY *Claudia Walsh, P.E. (757) 222-1500 (HDR, Engineering, Inc.)* -----
 SUBSURFACE UTILITY BY, DATE *Ivan, B. Linberry, L.S. (757) 368-0945 (Precision Measurements, Inc.), 04-2018*

REVISED	STATE	STATE		SHEET NO.
	ROUTE	PROJECT		
	VA.	64	0064-121-418, P101	20(2)

SECTION II EROSION AND SEDIMENT CONTROL

- XX 1. The intended sequence and timing of activities that disturb soils at the site (e.g., grubbing, excavation, grading, utilities and infrastructure installation, etc.) shall be provided by the contractor in accordance with the current edition of Section 108.03 of the VDOT R&B Specifications and shall be included with the other SWPPP documents for this land disturbance (construction) activity.
2. Directions of stormwater flow and approximate slopes anticipated after major grading activities are identified in the construction plan set (or other such documents) for this land disturbance (construction) activity.
3. Areas of soil disturbance and areas of the site which will not be disturbed are identified in the construction plan set (or other such documents) for this land disturbance (construction) activity.
4. Locations of major structural and nonstructural ESC measures intended to filter, settle or similarly remove sediment are identified in the construction plan set (or other such documents) for this land disturbance (construction) activity.
5. Locations where stabilization practices are expected to occur are identified in the construction plan set (or other such documents) for this land disturbance (construction) activity.
6. A description of interim and permanent stabilization practices for the site are identified in the applicable sections of the documents identified in the Note 1 of Section IV.
- XX 7. A record of the dates when major grading activities occur, when construction activities temporarily or permanently cease on a portion of the site, and when stabilization measures are initiated will be provided by the contractor and maintained with the record set of plans or other SWPPP documents for this land disturbance (construction) activity: (List how this will be tracked and the location)
8. A description and schedule of procedures to maintain vegetation, erosion and sediment control measures and other protective measures in good and effective operating conditions are identified in the current edition of Sections 107.16 and 303.03 of the VDOT R&B Specifications.
9. Nutrients shall be applied in accordance with the current edition of Sections 603 and 604 of the VDOT Road and Bridge Specifications. Nutrients shall not be applied during rainfall events. Top soil shall be applied in accordance with the current edition of section 602 of the latest Road and Bridge Specifications.
10. All engineering calculations supporting the design of erosion and sediment control measures proposed for this land disturbance (construction) activity are contained in the project drainage file located in the Hampton Roads. Drainage file is located in the VDOT Hampton Roads District Hydraulic Section and will be made available for review upon request during normal business hours.
11. The temporary erosion and siltation control items shown on the ESC Plan for this land disturbing (construction) activity are intended to provide a general plan for controlling erosion and sediment within the project limits. The ESC Plan is based on field conditions at the time of plan development and an assumed sequence of construction for the project. The contractor, in conjunction with the VDOT Project Engineer and/or ESC Inspector, shall adjust the location, quantity and type of erosion and sediment control items required based on the actual field conditions encountered at the time of construction and the actual scheduling and sequencing of the construction activities. Significant changes to the proposed ESC Plan (e.g., those that require an engineering analysis, elimination of a perimeter control, change to ESC concept that would affect the quantity or direction of flow of water) shall be submitted to the applicable District Hydraulics Engineer for review and approval. Any changes to the proposed ESC Plan must be noted on the designated record set of plans which shall be retained on the project site and made available upon request during normal business hours.
12. The areas beyond the project's construction limits are to be protected from siltation. Perimeter controls such as silt fence, diversion dikes, turbidity curtains, etc. shall be installed prior to any grubbing operations or other earth moving activities.
13. Temporary earthen structures such as dikes and berms are to be stabilized immediately upon installation. Stabilization may include temporary or permanent seeding, riprap, aggregate, sod, mulching, and/or soil stabilization blankets and matting in conjunction with seeding.
14. All channel relocations are to be constructed during the earliest stage of construction and shall be constructed in accordance with all applicable permit requirements and shall be constructed in the dry wherever possible. Stabilization or vegetation shall be established before flow is redirected through the constructed area as directed by the Engineer.
15. The contractor shall plan and implement his land disturbance operations in order to:
- Control the volume and velocity of stormwater runoff within the site to minimize erosion.
 - Control the peak flow rates, volume and velocity of stormwater discharges to minimize erosion at outlets and in downstream channels.
 - Minimize the amount of soil exposed.
 - Minimize the disturbance of steep slopes.
 - Minimize sediment discharge from the site.
 - Provide and maintain natural buffers around surface waters, direct stormwater runoff to vegetated areas and maximize stormwater infiltration, unless infeasible.
 - Minimize soil compaction (except in those areas where compaction is required by the contract documents) and preserve topsoil where feasible.

- XX 16. The name of the individual(s) or contractor(s) responsible for the installation and maintenance of the erosion and sediment control measures shall be supplied by the contractor and maintained with the other SWPPP documents for this land disturbance (construction) activity.

17. Soil stockpiles temporarily placed within the project area or on VDOT right of way or easement shall be identified, stabilized, and protected with sediment trapping measures.

18. A construction entrance or other approved measure shall be installed at all locations where construction vehicular traffic access routes intersect a paved or a public road in order to minimize the transport of sediment by vehicular tracking onto the paved surface. Where sediment is transported onto a paved or a public road surface, the road shall be cleaned thoroughly at the end of each work day by shoveling or sweeping. Removed sediment shall be disposed of in accordance with Section 106.04 of the R&B Specifications.

19. Any variance, exception or deviation approved by DEQ must be listed below and supporting documentation (exception/variance/deviation request and DEQ approval) must be maintained with the SWPPP.

The following exceptions to the Water Quantity criteria of the VSMP Regulation have been approved by the DEQ for this land disturbance (construction) activity: (list all approved exceptions and include a brief description of the exception, the date approved and the approving DEQ Office)

Type(1)	Regulation Modified(2)	Approval Date(3)	Description of Variance

- (1) Type of modification (Variance from ESC regulations, or Deviation from published guidance)
 (2) Section of Regulation or Guidance Document Modified (e.g. ESC Min. Std. 15)
 (3) Date that variance/exception/deviation was approved by DEQ.

SECTION III POST CONSTRUCTION STORMWATER MANAGEMENT

Choose the appropriate note 1A or 1B that is applicable to the proposed post construction SWM Plan for this land disturbance (construction) activity. (Delete, strikethrough or mark as NA those notes not applicable.)

1. (Include one of the following notes as appropriate)

~~XX A. This land disturbance activity is grandfathered under Section 9VAC25-870-48 of the VSMP Regulations and utilizes the Part IIC technical criteria (i.e., Performance or Technology Based, MS 19, etc.) in Section 9VAC25-870-93 et seq. of the VSMP Regulations.~~

XX B. This land disturbance activity utilizes the Part IIB technical criteria (i.e., Runoff Reduction Method, Energy Balance Equation, etc.) in Section 9VAC25-870-62 et seq. of the VSMP Regulations.

2. An exception for (number) pounds of phosphorus ~~removal has been granted for this land disturbance activity by the DEQ in its letter dated (date).~~

3. Any variance, exception or deviation approved by DEQ ~~must be listed below and supporting documentation (exception/variance/deviation request and DEQ approval) must be maintained with the SWPPP.~~

The following exceptions to the Water Quantity criteria of the VSMP Regulation have been approved by the DEQ for this land disturbance activity: (list all approved exceptions and include a brief description of the exception, the date approved and the approving DEQ Office)

Type(1)	Regulation Modified(2)	Approval Date(3)	Description of Waiver

- (1) Type of modification (Variance, or Exception from SWM Regulations or Deviation from published guidance)
 (2) Section of Regulation or Guidance Document Modified (e.g. ESC Min. Std. 15)
 (3) Date that variance/exception/deviation was approved by DEQ.

4. The permanent onsite SWM facilities or offsite strategies proposed to meet the water quality/quantity requirements for this land disturbance (construction) activity are listed in Section VI.

5. A description of all post-construction stormwater management measures that will be installed during the construction process to control pollutants in stormwater discharges after construction operations have been completed is included in the construction plan set (or other such documents) for this land disturbance (construction) activity.

6. All engineering calculations supporting the design of the post-construction stormwater management measures for this land disturbance (construction) activity, including an explanation of the technical basis used to select the practices, are contained in the project drainage file located in the VDOT Hampton Roads District Hydraulics Section and will be made available for review upon request during normal working business hours.

ACRONYMS

CBPA - Chesapeake Bay Preservation Act	SWPPP - Stormwater Pollution Prevention Plan
BMP - Best Management Practice	TMDL - Total Maximum Daily Load
DEQ - Department of Environmental Quality	VDOT - Virginia Department of Transportation
EPA - U.S. Environmental Protection Agency	VPDES - Virginia Pollutant Discharge Elimination System
ESC - Erosion and Sediment Control	VSMP - Virginia Stormwater Management Program
IIM - Instructional and Informational Memorandum	VESCP - Virginia Erosion and Sediment Control Program
R&B - Road and Bridge	WLA - Waste Load Allocation
RLD - Responsible Land Disturber	SWM - Stormwater Management

XX Denotes information that is to be provided/ completed by the RLD.

XX Denotes information that is to be provided/completed by the contractor.

Revised 5/1/19
SWPP PLAN 2 OF 4

XX Denotes information that is to be provided/completed by the VDOT RLD.
 XX Denotes information that is to be provided/completed by the contractor.

	PROJECT 0064-121-418	SHEET NO. 20(2)
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PROJECT MANAGER *Salvi Ja. Holbeiner, P.E. (757) 956-3082 (Hampton Roads District)*
 SURVEYED BY, DATE *Ivan R. Liberry, L.S. (757) 368-0945 (Precision Measurements, Inc.), 05-02-2018*
 DESIGN BY *Claudia Walsh, P.E. (757) 222-1500 (HDR, Engineering, Inc.)*
 SUBSURFACE UTILITY BY, DATE *Ivan R. Liberry, L.S. (757) 368-0945 (Precision Measurements, Inc.), 04-2018*

STORMWATER POLLUTION PREVENTION PLAN (SWPPP) GENERAL INFORMATION SHEET

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

The information contained in the SWPPP General Information sheets is intended to comply with the requirements of the VPDES General Permit For Discharges Of Stormwater From Construction Activities (the VPDES Construction Permit) issued July 1, 2019 and VDOT's approved Annual ESC and SWM Standards and Specifications.

The SWPPP General Information sheets are to be completed and included in the construction plan set (or other such documents) for land disturbance (construction) activities that disturb an area equal to or greater than 10,000 square feet outside the Chesapeake Bay Preservation Area, or equal to or greater than 2,500 square feet in the area defined as Tidewater, Virginia in the Virginia Chesapeake Bay Preservation Act.

The VDOT RLD will ensure that the information shown on the SWPPP General Information sheets is updated/revised as necessary in order to reflect changes that may occur during the construction phase of the land disturbing (construction) activity. The updated/revised sheets shall be maintained with the designated record set of plans (or other such documents) for the land disturbance (construction) activity.

SECTION IV SWPPP

1. All documents related to the SWPPP for this land disturbance (construction) activity shall be maintained at the activity site and shall be readily available for review upon request during normal business hours. Such documents include, but are not limited to, the construction plans (or other such documents), the ESC Plan, the Pollution Prevention Plan, the post construction SWM Plan (if applicable), the VDOT R&B Standards and Specifications, Supplemental Specifications, Special Provisions and Special Provision Copied Notes. Documents related to stormwater pollution prevention which are not a part of those documents referenced above, such as copies of the VPDES Construction Permit coverage letter (when applicable) and the VPDES General Permit For Discharges Of Stormwater From Construction Activities (when applicable) and those required to be developed by the contractor for pollution prevention associated with any on-site support facilities being included in the VPDES Construction Permit coverage for this land disturbance (construction) activity are to be maintained at the activity site with the other SWPPP documents for this land disturbance (construction) activity. Where no facilities are available at the activity site to maintain the SWPPP documents, they are to be kept by or with the designated RLD at a location convenient to the activity site where they would be made available for review upon request during normal business hours.

2. The SWPPP and any subsequent amendments, modifications and updates shall be implemented from commencement of land disturbance until termination of VPDES Construction Permit coverage or completion of land disturbance (construction) activities where no VPDES Construction Permit coverage is required.

XX 3. For all on-site support facilities that will be included in the VPDES Construction Permit coverage for this land disturbance (construction) activity, the contractor shall develop a SWPPP in accordance with, but not limited to, Section 106.08, 107.02 and 107.16 of the VDOT Road and Bridge Specifications. The SWPPP for the on-site support facilities shall be maintained with and become a component of the SWPPP for this land disturbance (construction) activity. Support facilities shall include, but not be limited to, borrow and disposal areas, construction and waste material storage areas, equipment and vehicle washing, maintenance, storage and fueling areas, storage areas for fertilizers, fuels or chemicals, concrete wash out areas, sanitary waste facilities and any other areas that may generate a stormwater or non-stormwater discharge directly related to the construction site.

4. For those land disturbing (construction) activities requiring coverage under the VPDES Construction Permit, the SWPPP shall be made available for review upon the request of the DEQ, the EPA, the VSMP Authority, the VESCP Authority, local government officials or the operator of a municipal separate storm sewer system (MS4) receiving discharge from the construction site.

X 5. For those land disturbing (construction) activities requiring coverage under the VPDES Construction Permit, the VDOT RLD shall post, or have posted, a copy of the General Permit coverage letter and a copy of a completed LD-445A form, noting the name and contact information for the VDOT person responsible for the land disturbing (construction) activity and its SWPPP, outside the project's construction office along with other Federal and State mandated information. Where there is no construction office (e.g., a maintenance activity), the permit coverage letter and the LD-445A form are to be maintained with the other SWPPP documents for the land disturbing (construction) activity.

6. The SWPPP shall be made available for review by the public upon request. Such reviews shall be at a time and publicly accessible location convenient to the VDOT and shall be scheduled during normal business hours and no less than once per month.

SECTION V - POLLUTION PREVENTION PLAN

1. The following non-stormwater discharges from this land disturbing (construction) activity and any on-site support facilities are prohibited:
 - a. Wastewater from concrete washouts.
 - b. Wastewater from the washout and cleanout of stucco, paint, from release oils, curing compounds and other construction materials.
 - c. Fuels, oils or other pollutants used in vehicle and equipment operation and maintenance.
 - d. Oils, toxic substances or hazardous substances from spills or other releases.
 - e. Soaps, solvents or detergents used in equipment and vehicle washing.
 - f. There shall be no discharge of floating solids or visible foam in other than trace amounts.

2. The following non-stormwater discharges from this land disturbing (construction) activity and any on-site support facilities are allowed when discharged in compliance with the VPDES Construction Permit:
 - a. Discharges from firefighting activities.
 - b. Fire hydrant flushings.
 - c. Waters used to wash vehicles or equipment where soaps, solvents or detergents have not been used and the wash water has been filtered, settled or similarly treated prior to discharge.
 - d. Water used to control dust that has been filtered, settled or similarly treated prior to discharge.
 - e. Potable water sources including uncontaminated waterline flushings managed in a manner to avoid stream impacts.
 - f. Routine external building wash down where soaps, solvents or detergents have not been used and the wash water has been filtered, settled or similarly treated prior to discharge.
 - g. Pavement wash waters where spills or leaks of toxic or hazardous materials have not occurred (or where all spilled or leaked material has been removed prior to washing), where soaps, solvents or detergents have not been used and where the wash water has been filtered, settled or similarly treated prior to discharge.
 - h. Uncontaminated air conditioning or compressor condensate.
 - i. Uncontaminated ground water or spring water.
 - j. Foundation or footing drains where flows are not contaminated with process materials such as solvents.
 - k. Uncontaminated excavation dewatering, including dewatering trenches and excavations that have been filtered, settled or similarly treated prior to discharge.
 - l. Landscape irrigation.

XX

3. The contractor shall develop a Pollution Prevention Plan to address any of his on-site operations that have a potential to generate a pollutant that may reasonably be expected to affect the quality of stormwater discharges from this land disturbance (construction) activity. The Pollution Prevention Plan shall be developed in accordance with, but not limited to, Sections 106.08, 107.02 and 107.16 of the VDOT Road and Bridge Specifications and shall include a narrative with appropriate plan detail and shall be provided on standard 8.5 x 11 inch paper or larger and shall:
 - a. Identify the potential pollutant-generating activities and the pollutant that is expected to be exposed to stormwater.
 - b. Describe the location where the potential pollutant-generating activities will occur, or if identified on the record set of plans, reference the record set of plans.
 - c. Identify all non-stormwater discharges, as described in note two of this section, that are or will be commingled with stormwater discharges from the construction activity, including any on-site support activities.
 - d. Identify the person(s) or contractor(s) responsible for implementing and maintaining the pollution prevention practice or practices for each pollutant-generating activity.
 - e. Describe the pollution prevention practices and procedures that will be implemented to:
 - 1) Prevent and respond to leaks, spills, and other releases, including procedures for expeditiously stopping, containing, and cleaning up spills, leaks, and other releases, and procedures for reporting leaks, spills, and other releases in accordance with Section 107.16 of the VDOT Road and Bridge Specifications and the requirements within the VPDES Construction Permit.

- 2) Prevent the discharge of spilled and leaked fuels and chemicals from vehicle fueling and maintenance activities.

- 3) Prevent the discharge of soaps, solvents, detergents, and wash water from construction materials, including procedures for the clean-up of stucco, paint, form release oils, and curing compounds.

- 4) Minimize the discharge of pollutants from vehicle and equipment washing, wheel wash water, and other types of washing.

- 5) Direct concrete wash water into a leak-proof container or leak-proof settling basin. The container or basin shall be designed so that no overflows can occur due to inadequate sizing or precipitation. Hardened concrete wastes shall be removed and disposed of in a manner consistent with the handling of other construction wastes. Liquid concrete wastes shall be removed and disposed of in a manner consistent with the handling of other construction wash waters and shall not be discharged to surface waters.

- 6) Minimize the discharge of pollutants from storage, handling, and disposal of construction products, materials, and wastes including building products (such as asphalt sealants, copper flashing, roofing materials, adhesives, and concrete admixtures), pesticides, herbicides, insecticides, fertilizers, landscape materials, construction and domestic wastes (such as packaging materials), scrap construction materials, masonry products, timber, pipe and electrical cuttings, plastics, styrofoam, concrete, and other trash or building materials.

- 7) Prevent the discharge of fuels, oils, and other petroleum products, hazardous or toxic wastes, waste concrete and sanitary wastes.

- 8) Address any other discharge from any potential pollutant-generating activity not listed herein.

- 9) Minimize the exposure of waste materials to precipitation by closing or covering waste containers during precipitation events and at the end of the business day, or implementing other similarly effective practices. Minimization of exposure is not required in case where the exposure to precipitation will not result in a discharge of pollutants.

- 10) Describe and implement procedures for providing pollution prevention awareness (including but not limited to prevention practices, disposal practices and appropriate disposal locations) for all applicable wastes (including any wash water), to appropriate personnel.

X Denotes information that is to be provided/completed by the RLD.

XX Denotes information that is to be provided/completed by the contractor.

	PROJECT 0064-121-418	SHEET NO. 2C(3)
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PROJECT MANAGER *Salvi, Ja. Hafelmeier, P.E. (757) 956-3082 (Hampton Roads District)*
 SURVEYED BY, DATE *Van, B. Liberry, L.S. (757) 368-0945 (Precision Measurements, Inc.), 05-02-2018*
 DESIGN BY *Claudia Walsh, P.E. (757) 222-1500 (HDR, Engineering, Inc.)*
 SUBSURFACE UTILITY BY, DATE *Van, B. Liberry, L.S. (757) 368-0945 (Precision Measurements, Inc.), 04-2018*

STORMWATER POLLUTION PREVENTION PLAN (SWPPP) GENERAL INFORMATION SHEET

The information contained in the SWPPP General Information sheets is intended to comply with the requirements of the VPDES General Permit For Discharges Of Stormwater From Construction Activities (the VPDES Construction Permit) issued July 1, 2019 and VDOT's approved Annual ESC and SWM Standards and Specifications.

The SWPPP General Information sheets are to be completed and included in the construction plan set (or other such documents) for land disturbance (construction) activities that disturb an area equal to or greater than 10,000 square feet, or equal to or greater than 2,500 square feet in the area defined as Tidewater, Virginia in the Virginia Chesapeake Bay Preservation Act.

The VDOT RLD will ensure that the information shown on the SWPPP General Information sheets is updated/revised as necessary in order to reflect changes that may occur during the construction phase of the land disturbing (construction) activity. The updated/revised sheets shall be maintained with the designated record set of plans (or other such documents) for the land disturbance (construction) activity.

SECTION VI - PERMANENT BMP INFORMATION Δ

X Denotes information that is to be completed by the RLD.
() See note referenced by number in parentheses.

INSTALLED BMP INFORMATION (VDOT Owned/Operated)

Plan Sheet(s)	Date BMP Made Functional	Type of BMP Installed (See Table A and C)	Geographic Location (County or City)	Latitude/Longitude (1)		VA 6th Order HUC (7)	Receiving Water (2)	Name of Impaired Water (9)	Acres Treated Per BMP (3)			X BMP Maintenance ID Number (10)	BMP Maintenance Manual (11)	BMP Inspection Manual (11)
				LAT	LONG				Impervious	Pervious	TOTAL			

ALTERNATIVE BMP INFORMATION

Plan Sheet(s)	Date	Type of BMP Installed (See Table B)	Geographic Location (County or City) (5)	Latitude/Longitude (1) (5)		VA 6th Order HUC (5) (7)	Receiving Water (2)	Name of Impaired Water (9)
				LAT	LONG			

Perpetual Nutrient Credits Acquired for Project

Name of Nutrient Credit Generating Entity (6)	Nutrient Credits (lbs./TP./year) Acquired (6) (12)
York	2.62
TBD	2.57*

Note: * Indicates (Lbs P/Yr) to be acquired.

Δ Any changes to the proposed SWM Plan or BMPs necessitated during the construction phase of the project that affects the proposed construction details or potentially affects the information shown in the BMP Tables A and/or B shall be coordinated by the VDOT RLD with the appropriate VDOT District Hydraulics Engineer. The construction plans and the BMP Tables A and/or B are to be formally revised to reflect any authorized/approved changes to the proposed SWM Plan and/or the proposed BMP construction details. All plan revisions shall be completed in accordance with the Road Design Manual and the Construction Division IIM-CD-2013-12.01, signed and sealed in accordance with Department's sealing and signing policy IIM-LD-243 and filed with the construction record drawings maintained in the VDOT Central Office Plan File Room (ProjectWise). Prior to submitting for termination of coverage under the VPDES General Permit For The Discharge Of Stormwater From Construction Activities, the RLD shall have the District Maintenance Division review the BMPs installed with the project (BMP Table A) for acceptance of maintenance responsibility and to obtain a Maintenance ID number for each BMP listed in BMP Table A. The RLD shall use the information in BMP Tables A and B along with the assigned Maintenance ID number and the date that the BMP became functional as a permanent control measure (for BMPs in Table A only) to complete the LD-445D form when certifying the construction of the BMPs and submitting for termination of coverage under the VPDES General Permit For The Discharge Of Stormwater From Construction Activities.

(11) Provide the section of each Maintenance manual that pertains to the type of BMP. Both manuals can be found at www.vdot.virginia.gov/business/manuals in the Maintenance selections. Example: Section 4 would be noted for both the maintenance and inspection manuals for a Bioretention Infiltration BMP.

(12) Nutrient credits purchased to the nearest one hundredth pound.

Table A: Permanent BMP Types (1999 Va. SWM Handbook)

- Bio-retention Basin
- Bio-retention Filter
- Constructed Stormwater Wetlands
- Extended Detention Basin
- Extended Detention Basin Enhanced
- Grassed Swale
- Infiltration Basin
- Infiltration Trench
- Manufactured Treatment Device (MTD) (8)
- Retention Basin I
- Retention Basin II
- Retention Basin III
- Sand Filter
- Vegetated Filter Strip
- Other Approved Types (List Type)
- Detention Basin

Table B: Alternative BMP Types

- Comprehensive SWM Plan (Regional) Facility
- Pollutant Loading Pro Rata Share Program
- Other Approved Options (List Type) (4)

Table C: Permanent BMP Types (BMP Clearing House)

- Sheet Flow to Vegetated Filter Strip
- Grass Channel
- Soil Compost Amendment
- Permeable Pavement (Level 1)
- Permeable Pavement (Level 2)
- Infiltration Practice (Level 1)
- Infiltration Practice (Level 2)
- Bioretention (Level 1)
- Bioretention (Level 2)
- Dry Swale (Level 1)
- Dry Swale (Level 2)
- Wet Swale (Level 1)
- Wet Swale (Level 2)
- Filtering Practice (Level 1)
- Filtering Practice (Level 2)
- Constructed Wetlands (Level 1)
- Constructed Wetlands (Level 2)
- Extended Detention Pond (Level 1)
- Extended Detention Pond (Level 2)
- Wet Pond (Level 1)
- Wet Pond (Level 2)
- Manufactured Treatment Device (MTD) (8)
- Other Approved Types (List Type)

NOTES:

- (1) In decimal degrees to the nearest one ten-thousandth of a degree.
- (2) For streams with no names, list "(Unnamed Tributary to downstream name)".
- (3) Show acres treated to the nearest one hundredths acre.
- (4) Include agreements with off-site BMP owners.
- (5) Information pertains to the alternative BMP option location, where applicable. Exception - Not required for nutrient credit purchase option.
- (6) Applies to the purchase of nutrient credits only.
- (7) Virginia 6th Order HUC (VAHU6) Example - Y030.
- (8) Final approved shop drawings of Manufactured Treatment Devices (MTDs) are to be included with the BMP information submitted with the LD-445D form.
- (9) List the name of any impaired water to which the BMP discharges. The determination of impaired water shall be based on those streams listed as impaired in the DEQ 2012 305(b)/303(d) Water Quality Assessment Integrated Report and shall be the first named waterbody to which the BMP discharges. The impaired waters are those impaired by sediment, total suspended solids, turbidity, nitrogen or phosphorus.
- (10) BMP Maintenance ID Number is to be assigned by the District Maintenance Division at permit termination or project completion. This ID number shall be assigned prior to the permit close out process and entered by the area construction engineer under this column, per IIM-LD-95

PROJECT MANAGER: *Erin Foley, P.E. (757) 222-1500*
SURVEYED BY, DATE: *Rise Associates, Inc. (757) 306-4260*
DESIGN BY: *HDR Engineering, Inc.*
SUBSURFACE UTILITY BY, DATE: *N/A*

REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA.	64	0064-121-418, P101	2D(1)

SIGN DETAILS

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER

SIGN DETAIL
1:100

TEXT NO. 1

Panel Style: *guide_exp_advantage_b.ssi*
M.U.T.C.D.: 2009 Edition

SYMBOL	ROT	X	Y	WID	HT
EZPASS	0	16	111.6	77.1	17.8

Panel Style: *guide_exp_advantage_b.ssi*
Dimensions are in inches, tenths
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)						LENGTH	SERIES SIZE						
O	N	L	Y				E 2000						
125.4	138.3	151.1	161.1			47.9	12						
E	X	P	R	E	S	S	L	A	N	E		E 2000	
16.2	29.6	45.6	60.3	75.5	88.8	103.1	115.2	130.2	142.7	160.5	176.6	171.6	15
E	N	T	R	A	N	C	E					E 2000	
43.6	57.8	72.5	86.3	100.1	118	133.6	149.2					116.9	15
2	M	I	L	E	S							E 2000	
69.6	91.8	103.8	108.2	117.4	126.3							64.7	15, 10

SIGN DETAIL
1:100

TEXT NO. 2, 5, 7, 16, 18, 20, 27, 32, 37, 45, 51, 54, 57, 64

Panel Style: *tab_bottom.ssi*
M.U.T.C.D.: 2009 Edition

SYMBOL	ROT	X	Y	WID	HT
EZPASS	0	16	111.6	77.1	17.8

Panel Style: *tab_bottom.ssi*
Dimensions are in inches, tenths
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)						LENGTH	SERIES SIZE						
E	X	P	R	E	S	S	L	A	N	E		E 2000	
33.7	47.1	63.1	77.8	93	106.3	120.6	132.7	147.7	160.2	178	194.1	171.6	15

SIGN DETAIL
1:100

TEXT NO. 3, 33, 39

Panel Style: *guide_exp_advantage_b.ssi*
M.U.T.C.D.: 2009 Edition

SYMBOL	ROT	X	Y	WID	HT
EZPASS	0	16	111.6	77.1	17.8

Panel Style: *guide_exp_advantage_b.ssi*
Dimensions are in inches, tenths
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)						LENGTH	SERIES SIZE						
O	N	L	Y				E 2000						
125.4	138.3	151.1	161.1			47.9	12						
E	X	P	R	E	S	S	L	A	N	E		E 2000	
16.2	29.6	45.6	60.3	75.5	88.8	103.1	115.2	130.2	142.7	160.5	176.6	171.6	15
E	N	T	R	A	N	C	E					E 2000	
43.6	57.8	72.5	86.3	100.1	118	133.6	149.2					116.9	15
1	M	I	L	E	S							E 2000	
78.2	92.7	104.7	109.1	118.3								47.6	15, 10

SIGN DETAIL
1:100

TEXT NO. 4

Panel Style: *guide_exp_toll_white.ssi*
M.U.T.C.D.: 2009 Edition

SYMBOL	ROT	X	Y	WID	HT
EZPASS	0	30.5	99	77.1	17.8
EZPASS FLEX	0	15.7	27.5	106.7	17.8

Panel Style: *guide_exp_toll_white.ssi*
Dimensions are in inches, tenths
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)						LENGTH	SERIES SIZE						
E	X	P	R	E	S	S	L	A	N	E		E 2000	
11.8	20.7	31.4	41.2	51.3	60.2	69.7	77.8	87.8	96.1	108	118.7	114.4	10
A	L	L	U	S	E	R	S					E 2000	
26.1	38	47.2	54.7	64.7	74.8	84.9	94.4	103.9				85.9	10
R	E	Q	U	I	R	E	D					E 2000	
32.6	42.7	51.9	62.6	73.3	77.7	87.8	97.3					72.8	10
H	O	V	2	+	W	I	T	H					E 2000
20	30.4	40.2	49.4	59.4	68.5	75	85	97.3	100.8	110		98.1	10
N	O	T	O	L	L							E 2000	
36.5	46.9	55.3	65.3	74.2	84.9	94.1					65.1	10	

NOTES:

- ALL SIGN PANELS SHALL BE FABRICATED USING ASTM D4956 TYPE XI REFLECTIVE SHEETING

P.H. PLANS
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROJECT MANAGER: Erin Eoley, P.E. (757) 222-1500
 SURVEYED BY, DATE: Ricoe Associates, Inc. (757) 306-4260
 DESIGN BY: HDR Engineering, Inc.
 SUBSURFACE UTILITY BY, DATE: N/A

REVISED	STATE	STATE		SHEET NO.
	ROUTE	PROJECT		
	VA.	64	0064-121-418, P101	2D(2)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER

SIGN DETAILS

SIGN DETAIL
1:100

TEXT NO. 6, 19, 35, 36, 58

Panel Style: guide_exp_advance_b.sst
M.U.T.C.D.: 2009 Edition

SYMBOL	ROT	X	Y	WID	HT
EZPASS	0	16	111.6	77.1	17.8

Panel Style: guide_exp_advance_b.sst
Dimensions are in inches, tenths
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)		LENGTH	SERIES SIZE									
O	N	L	Y						E 2000			
125.4	138.3	151.1	161.1						47.9	12		
E	X	P	R	E	S	S	L	A	N	E	E 2000	
16.2	29.6	45.6	60.3	75.5	88.8	103.1	115.2	130.2	142.7	160.5	176.6	
											171.6	15
E	N	T	R	A	N	C	E				E 2000	
43.6	57.8	72.5	86.3	100.1	118	133.6	149.2				116.9	15
1/2	M	I	L	E							E 2000	
69.5	101.4	113.4	117.8	127							65.1	15, 10

SIGN DETAIL
1:100

TEXT NO. 6

Panel Style: guide_exp_advance_b.sst
M.U.T.C.D.: 2009 Edition

SYMBOL	ROT	X	Y	WID	HT
VG2A3	0	94.5	74	45	36

Panel Style: guide_exp_advance_b.sst
Dimensions are in inches, tenths
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)		LENGTH	SERIES SIZE									
J	e	f	f	e	r	s	o	n	A	v	e	ClearviewHwy-5-W
23.4	37.9	53.9	64.9	76.6	93.8	104.6	119.3	137.1	148.2	165.5	183.1	198.8
1	M	I	L	E							E 2000	
93.2	107.7	119.7	124.1	133.3							47.6	15, 10

SIGN DETAIL
1:100

TEXT NO. 6, 9

Panel Style: bottom_center(White).bst
M.U.T.C.D.: 2009 Edition

SYMBOL	ROT	X	Y	WID	HT
Park and Ride	0	31.2	49.5	13	10.6
AR_Type A	315	24.5	5.8	9	14.1

Panel Style: bottom_center(White).bst
Dimensions are in inches, tenths
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)		LENGTH	SERIES SIZE									
E	X	I	T	S	2	5	5	A	-	B	E 2000	
14.5	23.4	34.1	37.6	46.2	69.3	83.5	97.8	117.4	133.8	141.4	139.1	10, 15

SIGN DETAIL
1:100

TEXT NO. 6

Panel Style: guide_con_distance.sst
M.U.T.C.D.: 2009 Edition

SYMBOL	ROT	X	Y	WID	HT		
P	A	R	K	&		E 2000	
6.7	13.8	23.4	31.4	38.1	46.1	46.6	8
R	I	D	E			E 2000	
17	25.1	28.6	37			25.9	8

Panel Style: guide_con_distance.sst
Dimensions are in inches, tenths
Letter locations are panel edge to lower left corner

NOTES:

- 1. ALL SIGN PANELS SHALL BE FABRICATED USING ASTM D4956 TYPE XI REFLECTIVE SHEETING

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROJECT MANAGER: *Erin Ealey, P.E. (757) 222-1500*
SURVEYED BY, DATE: *Rise Associates, Inc. (757) 306-4260*
DESIGN BY: *HDR, Inc. (757) 443-3500*
SUBSURFACE UTILITY BY, DATE: *N/A*


REVISED	STATE	STATE		SHEET NO.
	ROUTE	PROJECT		
	VA.	64	0064-12I-418, P101	2D(3)

SIGN DETAILS

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER

SIGN DETAIL
1:100



TEXT NO.	7, 22
SIGN NUMBER	903, 2003
WIDTH x HGT.	21'-0" x 11'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White


SYMBOL	ROT	X	Y	WID	HT

Panel Style: *guide_exp_advance_b.ssi*
M.U.T.C.D.: 2009 Edition

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)												LENGTH	SERIES/SIZE	
E	X	P	R	E	S	S	L	A	N	E			E 2000	
40.2	53.6	69.6	84.3	99.5	112.8	127.1	139.2	154.2	166.7	184.5	200.6		171.6	15
N	E	X	T	E	X	I	T						E 2000	
79.5	92.3	103	114.8	123.8	135.8	146.5	159.3	163.5				93	12	
H	a	m	p	t	a	n	R	o	a	d	s		ClearviewHwy-5-W	
20.6	38.2	55.2	79.4	94.8	106.8	124.6	138.8	154.8	171.5	188.4	204.7	202	16/0	
C	e	n	t	e	r	P	k	w	y				ClearviewHwy-5-W	
42	59.2	76.4	92	104.1	121.3	130.3	146.3	162.8	176.6	197.5			16/0	

SIGN DETAIL
1:100



TEXT NO.	8, 22, 30, 40, 49
SIGN NUMBER	1001, 2001, 2909, 3404, 4504
WIDTH x HGT.	17'-0" x 12'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White


SYMBOL	ROT	X	Y	WID	HT
EZPASS	0	16	117.6	77.1	17.8
AR_Type A	45	88	11	22.6	35.6

Panel Style: *guide_exp_advance_b.ssi*
M.U.T.C.D.: 2009 Edition

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)												LENGTH	SERIES/SIZE	
O	N	L	Y										E 2000	
125.4	138.3	151.1	161.1										47.9	12
E	X	P	R	E	S	S	L	A	N	E			E 2000	
16.2	29.6	45.6	60.3	75.5	88.8	103.1	115.2	130.2	142.7	160.5	176.6		171.6	15
E	N	T	R	A	N	C	E						E 2000	
43.6	57.8	72.5	86.3	100.1	118	133.6	149.2						116.9	15

SIGN DETAIL
1:100



TEXT NO.	8
SIGN NUMBER	1002
WIDTH x HGT.	31'-0" x 8'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White

SYMBOL	ROT	X	Y	WID	HT

Panel Style: *guide_exp_advance_b.ssi*
M.U.T.C.D.: 2009 Edition

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)												LENGTH	SERIES/SIZE																
N	e	w	p	o	r	t	N	e	w	s	/	W	i	l	i	a	m	s	b	u	r	g		ClearviewHwy-5-W					
14	29.6	42.5	61.5	75.2	90	98.7	105.3	120.1	135.7	148.6	166.5	175.1	188.9	198.5	212	233.3	241.2	249.4	257.3	264.4	278.6	297.7	310.5	324.7	338.8	348.3		344	13.3/10.8
I	n	t	e	r	n	o	t	i	o	n	a	i	r	p	o	r	t								ClearviewHwy-5-W				
67.6	75.4	88.4	98.4	112.8	122.8	136.3	149.1	159.4	166.7	181.6	195.1	209.3	213.5	226.8	242.8	250.7	260.7	274.4	289.2	297.9				236.8	13.3/10.8				
E	X	I	T	2	5	S	B																	E 2000					
128.7	139.4	152.3	156.5	175.5	189.7	204	216.1	231.1																114.5	12,15				

NOTES:

1. ALL SIGN PANELS SHALL BE FABRICATED USING ASTM D4956 TYPE XI REFLECTIVE SHEETING

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROJECT MANAGER *Erin Ealey, P.E. (757) 222-1500*
SURVEYED BY, DATE *Rise Associates, Inc. (757) 306-4260*
DESIGN BY *HDR Engineering, Inc.*
SUBSURFACE UTILITY BY, DATE *N/A*

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	2D(4)

SIGN DETAILS

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER

SIGN DETAIL
1100

TEXT NO. 13, 18, 24, 27, 29, 36, 42, 46, 48, 64

SIGN NUMBERS:
1103, 1804, 1805, 2011, 2203, 2402, 2905, 2910, 3206, 3508, 3904, 3905, 4402, 5002, 5212

BORDER
R=1.13"
TH=0.63"
IN=0.38"

Panel Style: regulatory.ssi
M.U.T.C.D.: 2009 Edition

SIGN NUMBER	(SEE LEFT)
WIDTH x HGHT.	4'-0" x 2'-0"
BORDER WIDTH	0.63"
CORNER RADIUS	1.13"
MOUNTING	Ground
BACKGROUND TYPE	Reflective
COLOR	White
LEGEND/BORDER TYPE	Non-Reflective
COLOR	Black

SYMBOL	ROT	X	Y	WID	HT
EXPRESS	0	9	13.4	30	6.9

Panel Style: regulatory.ssi
Dimensions are in inches, tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)						LENGTH	SERIES SIZE
E	X	P	R	E	S	S	
7.7	12	17.1	22.1	27.2	31.5	36.2	D 2000
							32.6 6

SIGN DETAIL
1100

TEXT NO. 9, 24, 29, 42, 48

BORDER
R=12"
TH=2"

Panel Style: guide_exp_toll_white.ssi
M.U.T.C.D.: 2009 Edition

SIGN NUMBER	1003, 2007, 2804, 3903, 4401, 5001
WIDTH x HGHT.	20'-0" x 10'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND TYPE	Reflective
COLOR	White
LEGEND/BORDER TYPE	Non-Reflective
COLOR	Black

SYMBOL	ROT	X	Y	WID	HT
EXPRESS	0	39.4	94.1	77.1	17.8
EXPRESS FLEX	0	11.6	66.3	106.7	17.8
AR DOWN	0	104	11.6	32	22

Panel Style: guide_exp_toll_white.ssi
Dimensions are in inches, tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)						LENGTH	SERIES SIZE				
O	R						E 2000				
128.5	139.2						18.8 10				
W	I	T	H	H	O	V	2 +				
130.3	142.6	146.1	155.3	163.4	173.4	183.8	193.6	202.8	212.8	221.9	E 2000
O	N	L	Y								E 2000
96.1	108.9	121.7	131.7								47.9 12

SIGN DETAIL
1100

TEXT NO. 9

BORDER
R=12"
TH=2"

Panel Style: guide_exp_advance_b.ssi
M.U.T.C.D.: 2009 Edition

SIGN NUMBER	1004
WIDTH x HGHT.	19'-6" x 10'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND TYPE	Reflective
COLOR	Green
LEGEND/BORDER TYPE	Reflective
COLOR	White

SYMBOL	ROT	X	Y	WID	HT
V02A3	0	94.5	74	45	36

Panel Style: guide_exp_advance_b.ssi
Dimensions are in inches, tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)						LENGTH	SERIES SIZE							
J	e	f	f	e	r	s	o	n	A	v	e	Clearview-5-W		
23.4	37.9	53.9	64.9	76.6	93.8	104.6	119.3	137.1	148.2	165.5	183.1	198.8	87.2	16/13
1/2	M	I	L	E									E 2000	
84.5	116.4	128.4	132.8	142									65.1	15,10

SIGN DETAIL
1100

TEXT NO. 10

BORDER
R=10"
TH=2"

Panel Style: Overhead Warning Panel.ssi
M.U.T.C.D.: 2009 Edition

SIGN NUMBER	1006
WIDTH x HGHT.	11'-0" x 6'-6"
BORDER WIDTH	2"
CORNER RADIUS	10"
MOUNTING	Overhead
BACKGROUND TYPE	Reflective
COLOR	Yellow
LEGEND/BORDER TYPE	Non-Reflective
COLOR	Black

SYMBOL	ROT	X	Y	WID	HT
AR_Type B	225	90.7	13.4	20	22.8

Panel Style: Overhead Warning Panel.ssi
Dimensions are in inches, tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)						LENGTH	SERIES SIZE				
L	A	N	E	E	N	D	S				E 2000
14.1	24.1	38.3	51.2	60.2	72.2	83.6	96.4	108.2			103.8 12
M	E	R	G	E							E 2000
14.1	28.5	39.9	51.7	64.1							59 12
R	I	G	H	T							E 2000
14.1	26.2	31.1	43.6	55.4							50.3 12

P.H. PLANS

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NOTES:

- ALL SIGN PANELS SHALL BE FABRICATED USING ASTM D4956 TYPE XI REFLECTIVE SHEETING

PROJECT MANAGER Erin Foley, P.E. (757) 222-1500
SURVEYED BY, DATE Rise Associates, Inc. (757) 306-4260
DESIGN BY HDR, Engineer Inc.
SUBSURFACE UTILITY BY, DATE N/A

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	2D(5)

SIGN DETAILS

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER

SIGN DETAIL
1:100

TEXT NO. 11

SIGN NUMBER	1101
WIDTH x HGT.	11'-0" x 7'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)

LETTER	LENGTH	SERIES SIZE
J e f f e r s o n		Clearview Hwy-5-W
14 26.1 39.4 48.6 58.3 72.7 81.6 93.9 108.7	103.9	13.3/10.8
L a b		Clearview Hwy-5-W
48.5 59.7 73.8	35	13.3/10.8
E X I T 2 5 5 A		E 2000
15.2 24.1 34.8 38.3 55.8 70.1 84.3 101.5	101.5	10,15

Panel Style: guide_exp_advance_b.ssi
M.U.T.C.D.: 2009 Edition

SIGN DETAIL
1:100

TEXT NO. 14

SIGN NUMBER	1104
WIDTH x HGT.	11'-0" x 8'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Yellow
LEGEND/BORDER	TYPE: Non-Reflective COLOR: Black

SYMBOL	ROT	X	Y	WID	HT
ARROW	0	50	13.5	32.1	22

LETTER POSITIONS (X)

LETTER	LENGTH	SERIES SIZE
L A N E E N D S		E 2000
14.1 24.1 38.3 51.2 60.2 72.2 83.6 96.4 108.2	103.8	12
1 0 0 0 F E E T		E 2000
17.7 25.7 41.3 56.9 79.5 88.7 98.2 106.8	96.5	15,10

Panel Style: Overhead Warning Panel.ssi
M.U.T.C.D.: 2009 Edition

SIGN DETAIL
1:100

TEXT NO. 16

SIGN NUMBER	1602
WIDTH x HGT.	21'-0" x 14'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White

SYMBOL	ROT	X	Y	WID	HT
VG2A3	0	103.5	122	45	36

LETTER POSITIONS (X)

LETTER	LENGTH	SERIES SIZE
O y s t e r P o i n t R o a d		Clearview Hwy-5-W
18.8 37.3 52.8 66.5 78.5 95.8 103.1 120.7 136.7 154.2 163.6 179.2 187.1 204.8 221.6	214.4	16/13
V i c t o r y B l v d		Clearview Hwy-5-W
44.5 62.2 71.1 85 97 114.8 124.9 137.4 154.6 172.2 180.1 195.8	162.9	16/13
P o q u o s o n		Clearview Hwy-5-W
62.3 78.3 95.4 113.2 129.5 146 160.8 178.6	127.4	16/13
1 M I L E		E 2000
102.2 116.7 128.7 133.1 142.3	47.6	15,10

Panel Style: guide_exp_advance_b.ssi
M.U.T.C.D.: 2009 Edition

SIGN DETAIL
1:100

TEXT NO. 16

SIGN NUMBER	1603
WIDTH x HGT.	14'-0" x 2'-6"
BORDER WIDTH	2"
CORNER RADIUS	3.25"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)

LETTER	LENGTH	SERIES SIZE
E X I T S 2 5 6 A - B		E 2000
14.2 23.1 33.8 37.3 45.9 69 83.3 98 117.6 134 141.6	139.6	10,15

Panel Style: tab1.ssi
M.U.T.C.D.: 2009 Edition

P.H. PLANS
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NOTES:
1. ALL SIGN PANELS SHALL BE FABRICATED USING ASTM D4956 TYPE XI REFLECTIVE SHEETING

PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rise Associates, Inc. (757) 306-4260
DESIGN BY: HDR Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: N/A

REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA.	64	0064-121-418, P101	2D(6)

SIGN DETAILS

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER

SIGN DETAIL
1:100

TEXT NO. 20

SIGN NUMBER	1902
WIDTH x HGT.	19'-10" x 3'-0"
BORDER WIDTH	2"
CORNER RADIUS	8"
MOUNTING	Overhead
BACKGROUND TYPE	Reflective
COLOR	White
LEGEND/BORDER TYPE	Non-Reflective
COLOR	Black

SYMBOL	ROT	X	Y	WID	HT

Panel Style: Top Banner (white).bsi
Dimensions are in inches, tenths
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)											LENGTH	SERIES/SIZE		
E	N	T	R	A	N	C	E	O	N	L	Y			E 2000
42.3	53.7	65.5	76.5	87.6	101.8	114.3	126.8	135.8	147.8	160.6	173.5	183.4		153.4 12

SIGN DETAIL
1:100

TEXT NO. 20

SIGN NUMBER	1903
WIDTH x HGT.	21'-0" x 12'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND TYPE	Reflective
COLOR	Green
LEGEND/BORDER TYPE	Reflective
COLOR	White

SYMBOL	ROT	X	Y	WID	HT
VG2A.3	0	77.7	97.7	45	36

Panel Style: guide_exp_advance_b.ssi
Dimensions are in inches, tenths
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)											LENGTH	SERIES/SIZE		
E	A	S	T											E 2000
137.7	152	165.5	176.6											47.9 15,12
V	i	c	t	o	r	y	B	i	v	d				ClearviewHwy-5-W
44.5	62.2	71.1	85	97	114.8	124.9	137.4	154.6	172.2	180.1	195.8			62.9 16/13
P	o	q	u	o	s	o	n							ClearviewHwy-5-W
62.3	78.3	95.4	113.2	129.5	146	160.8	178.6							127.4 16/13
1/4	M	I	L	E										E 2000
93.5	125.4	137.4	141.8	151										65.1 15,10

SIGN DETAIL
1:100

TEXT NO. 20, 24

SIGN NUMBER	1904, 2010
WIDTH x HGT.	13'-0" x 2'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND TYPE	Reflective
COLOR	White
LEGEND/BORDER TYPE	Reflective
COLOR	White

SYMBOL	ROT	X	Y	WID	HT

Panel Style: bottom_center(White).bsi
Dimensions are in inches, tenths
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)											LENGTH	SERIES/SIZE		
E	X	I	T	2	5	6	B							E 2000
24.8	33.7	44.4	47.9	70.4	84.7	99.4	119							106.3 10,15

SIGN DETAIL
1:100

TEXT NO. 20

SIGN NUMBER	1905
WIDTH x HGT.	26'-6" x 6'-6"
BORDER WIDTH	2"
CORNER RADIUS	10"
MOUNTING	Overhead
BACKGROUND TYPE	Reflective
COLOR	Green
LEGEND/BORDER TYPE	Reflective
COLOR	White

SYMBOL	ROT	X	Y	WID	HT
AR_Type A	315	275.2	23.6	20	31.5

Panel Style: guide_exp_advance_b.ssi
Dimensions are in inches, tenths
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)											LENGTH	SERIES/SIZE					
O	y	s	t	e	r	P	o	i	n	t	R	o	a	d			ClearviewHwy-5-W
17.8	36.3	51.8	65.5	77.5	94.8	102.1	119.7	135.7	153.2	162.6	178.2	186.1	203.8	220.6	237.4	253.8	247.6 16/13
W	E	S	T														E 2000
116.8	135.7	146.4	157.4														49.6 15,12

NOTES:
1. ALL SIGN PANELS SHALL BE FABRICATED USING ASTM D4956 TYPE XI REFLECTIVE SHEETING

P.H. PLANS
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROJECT MANAGER Erin Foley, P.E. (757) 222-1500
 SURVEYED BY, DATE Rise Associates, Inc. (757) 306-4260
 DESIGN BY HDR Engineering, Inc.
 SUBSURFACE UTILITY BY, DATE N/A

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	2D(7)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

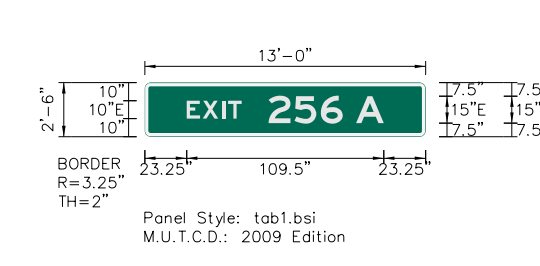
HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER

SIGN DETAILS

SIGN DETAIL
1:100

TEXT NO. 20

SIGN NUMBER	1998
WIDTH x HGHT.	13'-0" x 2'-6"
BORDER WIDTH	2"
CORNER RADIUS	10"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
LEGEND/BORDER	TYPE: Reflective
	COLOR: White
	COLOR: White



SYMBOL	ROT	X	Y	WID	HT


Panel Style: bottom_center(White).bsl
Dimensions are in inches, tenths
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)		LENGTH	SERIES/SIZE
E	X	109.5	E 2000
25	6		
10.5	A		
117.5			

SIGN DETAIL
1:100

TEXT NO. 21, 23

SIGN NUMBER	1907, 2004, 2005
WIDTH x HGHT.	11'-0" x 6'-6"
BORDER WIDTH	2"
CORNER RADIUS	10"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
LEGEND/BORDER	TYPE: Non-Reflective
	COLOR: White
	COLOR: Black



SYMBOL	ROT	X	Y	WID	HT

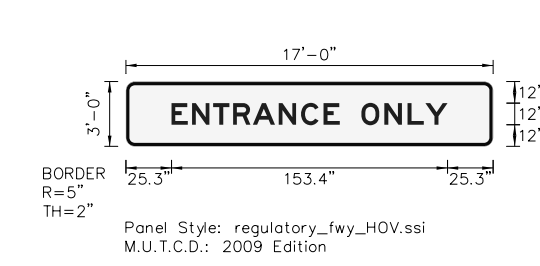
Panel Style: regulatory_fw_HOV.ssl
Dimensions are in inches, tenths
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)		LENGTH	SERIES/SIZE
L	O	106.6	E 2000
12.7	C		
35.9	A		
47.3	L		
61.6	E		
70.6	X		
82.6	I		
93.2	O		
106.1	N		
110.3	L		
	O		
	N		
	L		
	Y		
	47.9		
	E		
	N		
	T		
	R		
	Y		
	92		
	12		

SIGN DETAIL
1:100

TEXT NO. 22

SIGN NUMBER	2002
WIDTH x HGHT.	17'-0" x 3'-0"
BORDER WIDTH	2"
CORNER RADIUS	5"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
LEGEND/BORDER	TYPE: Non-Reflective
	COLOR: White
	COLOR: Black



SYMBOL	ROT	X	Y	WID	HT

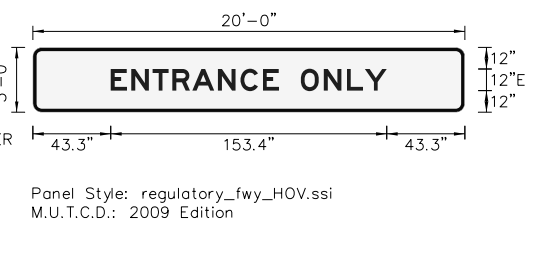
Panel Style: regulatory_fw_HOV.ssl
Dimensions are in inches, tenths
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)		LENGTH	SERIES/SIZE
E	N	153.4	E 2000
25.3	36.7		
48.5	48.5		
59.5	59.5		
70.6	70.6		
84.8	84.8		
97.3	97.3		
109.8	109.8		
118.8	118.8		
130.8	130.8		
143.6	143.6		
156.5	156.5		
166.4			

SIGN DETAIL
1:100

TEXT NO. 24

SIGN NUMBER	2008
WIDTH x HGHT.	20'-0" x 3'-0"
BORDER WIDTH	2"
CORNER RADIUS	5"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
LEGEND/BORDER	TYPE: Non-Reflective
	COLOR: White
	COLOR: Black



SYMBOL	ROT	X	Y	WID	HT

Panel Style: regulatory_fw_HOV.ssl
Dimensions are in inches, tenths
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)		LENGTH	SERIES/SIZE
E	N	153.4	E 2000
43.3	54.7		
66.5	66.5		
77.5	77.5		
88.6	88.6		
102.8	102.8		
115.3	115.3		
127.8	127.8		
136.8	136.8		
148.8	148.8		
161.6	161.6		
174.5	174.5		
184.4			

NOTES:
I. ALL SIGN PANELS SHALL BE FABRICATED USING ASTM D4956 TYPE XI REFLECTIVE SHEETING

P.H. PLANS
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROJECT MANAGER: *Erin Eoley, P.E. (757) 222-1500*
SURVEYED BY, DATE: *Rise Associates, Inc. (757) 306-4260*
DESIGN BY: *HDR Engineering, Inc.*
SUBSURFACE UTILITY BY, DATE: *N/A*

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	2D(8)

SIGN DETAILS

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER

SIGN DETAIL
1:100

TEXT NO. 24

SIGN NUMBER	2009
WIDTH x HIGHT.	19'-6" x 8'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White

SYMBOL	ROT	X	Y	WID	HT
VG2A3	0	48.9	44	45	36
AR_Type A	315	192.3	34.2	20	31.5

Panel Style: guide_exp_advance_b.ssi
M.U.T.C.D.: 2009 Edition

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)		LENGTH	SERIES SIZE										
E	A	S	T	E	2000								
108.9	123.2	136.8	147.8	47.9	15,12								
V	I	C	T	O	R	Y	B	I	V	D	ClearviewHwy-5-W		
19.7	37.4	46.2	60.1	72.2	90	100.1	112.6	129.7	147.3	155.3	171	162.9	16,13

SIGN DETAIL
1:100

TEXT NO. 23

SIGN NUMBER	2006
WIDTH x HIGHT.	11'-0" x 8'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White

SYMBOL	ROT	X	Y	WID	HT
AR_Type A	315	51.6	13.5	22.6	35.6

Panel Style: guide_exp_advance_b.ssi
M.U.T.C.D.: 2009 Edition

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)		LENGTH	SERIES SIZE								
L	O	C	A	L	E	X	I	T	E	2000	
12.7	23.4	35.9	47.3	61.6	70.6	82.6	93.2	106.1	110.3	106.6	12
2	5	5	E	2000							
45.2	59.5	73.7	40.7	15							

SIGN DETAIL
1:100

TEXT NO. 26

SIGN NUMBER	2201
WIDTH x HIGHT.	11'-0" x 7'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White

SYMBOL	ROT	X	Y	WID	HT

Panel Style: guide_exp_advance_b.ssi
M.U.T.C.D.: 2009 Edition

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)		LENGTH	SERIES SIZE								
L	O	C	A	L	E	X	I	T	E	2000	
12.7	23.4	35.9	47.3	61.6	70.6	82.6	93.2	106.1	110.3	106.6	12
2	5	5	E	2000							
44.3	58.6	72.8	40.6	15							
1/2	M	I	L	E	E	2000					
32.1	64.1	76.1	80.5	89.7	65.1	15,10					

SIGN DETAIL
1:100

TEXT NO. 28

SIGN NUMBER	2401
WIDTH x HIGHT.	11'-0" x 7'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White

SYMBOL	ROT	X	Y	WID	HT

Panel Style: guide_exp_advance_b.ssi
M.U.T.C.D.: 2009 Edition

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)		LENGTH	SERIES SIZE								
L	O	C	A	L	E	X	I	T	E	2000	
12.7	23.4	35.9	47.3	61.6	70.6	82.6	93.2	106.1	110.3	106.6	12
2	5	5	E	2000							
44.3	58.6	72.8	40.6	15							
1	M	I	L	E	E	2000					
40.8	55.3	67.3	71.7	80.9	47.6	15,10					

NOTES:

- ALL SIGN PANELS SHALL BE FABRICATED USING ASTM D4956 TYPE XI REFLECTIVE SHEETING

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROJECT MANAGER *Erin Ealey, P.E. (757) 222-1500*
SURVEYED BY, DATE *Rico Associates, Inc. (757) 306-4260*
DESIGN BY *HDR Engineering, Inc.*
SUBSURFACE UTILITY BY, DATE *N/A*

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	2D(9)

SIGN DETAILS

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER

SIGN DETAIL
1:100

TEXT NO. 29

SIGN NUMBER	2902
WIDTH x HIGHT.	26'-0" x 12'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND TYPE:	Reflective
COLOR:	Green
LEGEND/BORDER TYPE:	Reflective
COLOR:	White

SYMBOL	ROT	X	Y	WID	HT
MT_4	0	138	98	36	36

LETTER POSITIONS (X)		LENGTH	SERIES/SIZE																						
J	17.9	32.2	36.2	53.8	71.7	79.6	95.7	112.7	124.5	142.9	163.2	181	193	204.7	212.9	223.1	241.2	258.8	266.8	282.5	276.2	16,13	ClearviewHwy-5-W		
Y	94.4	111.9	129.7	141.7	155.6	167.7	183.7	206.5															23.3	16,13	ClearviewHwy-5-W
1/2	20.2	152.1	166.5	171.8	182.8																		71.7	E 2000	15,12

Panel Style: *guide_exp_advance_b.ssi*
Dimensions are in inches, tenths
Letter locations are panel edge to lower left corner

SIGN DETAIL
1:100

TEXT NO. 29

SIGN NUMBER	2903
WIDTH x HIGHT.	14'-0" x 2'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND TYPE:	Reflective
COLOR:	White
LEGEND/BORDER TYPE:	Reflective
COLOR:	White

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)		LENGTH	SERIES/SIZE																							
E	14.9	23.8	34.5	38	46.6	69.7	84	96.2	117.9	131.5	137.8															E 2000

Panel Style: *tab1.bsi*
Dimensions are in inches, tenths
Letter locations are panel edge to lower left corner

SIGN DETAIL
1:100

TEXT NO. 30

SIGN NUMBER	2908
WIDTH x HIGHT.	19'-0" x 13'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND TYPE:	Reflective
COLOR:	Green
LEGEND/BORDER TYPE:	Reflective
COLOR:	White

SYMBOL	ROT	X	Y	WID	HT
VG2A3	0	91.5	45	45	36

LETTER POSITIONS (X)		LENGTH	SERIES/SIZE																										
E	28.2	41.6	57.6	72.3	87.5	100.8	115.1	127.2	142.2	154.7	172.5	188.6														171.6	15	E 2000	
N	67.5	80.3	91	102.8	111.8	123.8	134.5	147.3	151.5																		93	12	E 2000
J	20.4	34.9	50.9	61.9	73.6	90.8	101.6	116.3	134.1	145.2	162.5	180.1	195.8														187.2	16,13	ClearviewHwy-5-W

Panel Style: *guide_exp_advance_b.ssi*
Dimensions are in inches, tenths
Letter locations are panel edge to lower left corner

SIGN DETAIL
1:100

TEXT NO. 30

SIGN NUMBER	2907
WIDTH x HIGHT.	22'-0" x 10'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND TYPE:	Reflective
COLOR:	Green
LEGEND/BORDER TYPE:	Reflective
COLOR:	White

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)		LENGTH	SERIES/SIZE																												
C	13.7	28.6	42.9	52.7	59.5	71	81	95.8	110	123.8	138.2	144.3	159	174.6	187.5	206.5	220.2	235	243.7									236.5	13.3/10.8	ClearviewHwy-5-W	
U	76.6	92.2	106.2	112.5	125.6	140	148.9	161.4	168	177																		110.8	13.3/10.8	ClearviewHwy-5-W	
E	79.8	90.5	103.4	107.6	126.6	140.8	155.1	168.9																					104.3	12,15	E 2000

Panel Style: *guide_exp_advance_b.ssi*
Dimensions are in inches, tenths
Letter locations are panel edge to lower left corner

NOTES:

- ALL SIGN PANELS SHALL BE FABRICATED USING ASTM D4956 TYPE XI REFLECTIVE SHEETING

P.H. PLANS
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROJECT MANAGER: Erin Foley, P.E. (757) 222-1500
 SURVEYED BY, DATE: Rise Associates, Inc. (757) 306-4260
 DESIGN BY: HDR Engineering, Inc.
 SUBSURFACE UTILITY BY, DATE: N/A

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	2D(10)

SIGN DETAILS

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER

SIGN DETAIL
1:100

TEXT NO. 31

SIGN NUMBER	3001
WIDTH x HGHT.	14'-0" x 4'-0"
BORDER WIDTH	2"
CORNER RADIUS	0"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)	LENGTH	SERIESIZE
N e w p o r t N e w s	145	E 2000
C i t y L i m i t s	70.6	E 2000

Panel Style: guide_fw_next_exits.ssi
Dimensions are in inches, tenths
Letter locations are panel edge to lower left corner

SIGN DETAIL
1:100

TEXT NO. 33

SIGN NUMBER	3003
WIDTH x HGHT.	12'-6" x 7'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)	LENGTH	SERIESIZE
L O C A L E X I T S	117.6	E 2000
2 6 1 T O 2 6 3	113.2	E 2000
1 M I L E	47.6	E 2000

Panel Style: guide_exp_advantage_b.ssi
Dimensions are in inches, tenths
Letter locations are panel edge to lower left corner

SIGN DETAIL
1:100

TEXT NO. 34

SIGN NUMBER	3101
WIDTH x HGHT.	13'-0" x 8'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White

SYMBOL	ROT	X	Y	WID	HT
AR_Type A	315	64	13.5	22.6	35.6

LETTER POSITIONS (X)	LENGTH	SERIESIZE
L O C A L E X I T S	117.6	E 2000
2 5 8 T O 2 5 6	122.5	E 2000

Panel Style: guide_exp_advantage_b.ssi
Dimensions are in inches, tenths
Letter locations are panel edge to lower left corner

SIGN DETAIL
1:100

TEXT NO. 35

SIGN NUMBER	3202
WIDTH x HGHT.	12'-6" x 7'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)	LENGTH	SERIESIZE
L O C A L E X I T S	117.6	E 2000
2 6 1 T O 2 6 3	113.2	E 2000
1/2 M I L E	65.1	E 2000

Panel Style: guide_exp_advantage_b.ssi
Dimensions are in inches, tenths
Letter locations are panel edge to lower left corner

NOTES:

1. ALL SIGN PANELS SHALL BE FABRICATED USING ASTM D4956 TYPE XI REFLECTIVE SHEETING

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROJECT MANAGER: Erin Foley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rico Associates, Inc. (757) 306-4260
DESIGN BY: HDR Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: N/A

REVISED	STATE		STATE	SHEET NO.
	ROUTE	PROJECT		
	VA.	64	0064-121-418, P101	2D(11)

SIGN DETAILS

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER

SIGN DETAIL
1:100

TEXT NO. 36

Panel Style: guide_exp_advance_b.ssi
M.U.T.C.D.: 2009 Edition

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)										LENGTH	SERIES SIZE	
L	O	C	A	L	E	X	I	T	S		E 2000	
19.2	29.9	42.4	53.8	68	77	89	99.7	112.6	116.8	127.1	117.6	12
2	5	8	T	O	2	5	6				E 2000	
16.7	31	45.2	67.4	78.1	98.2	112.4	127.1				122.5	15,12
1/2	M	I	L	E							E 2000	
44.1	76.1	88.1	92.5	101.7							65.1	15,10

SIGN DETAIL
1:100

TEXT NO. 37

Panel Style: guide_exp_advance_b.ssi
M.U.T.C.D.: 2009 Edition

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)										LENGTH	SERIES SIZE				
H	o	m	p	t	o	n	R	o	a	d	s	ClearviewHwy-5-W			
20.6	38.2	55.2	79.4	94.8	106.8	124.6	135.7	154.8	171.5	188.4	204.7	221.2	210.8	16/13	
C	e	n	t	e	r	P	k	w	y					ClearviewHwy-5-W	
42	59.2	76.4	92	104.1	121.3	128.7	146.3	162.8	176.6	197.5				168	16/13
1	M	I	L	E										E 2000	
102.2	116.7	128.7	133.1	142.3										47.6	15,10

SIGN DETAIL
1:100

TEXT NO. 37

Panel Style: top1.ssi
M.U.T.C.D.: 2009 Edition

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)										LENGTH	SERIES SIZE		
E	X	I	T	S	2	6	1	A	-	B		E 2000	
17.6	26.5	37.2	40.7	49.3	72.4	87.1	102.3	114.3	130.6	138.3		132.8	10,15

SIGN DETAIL
1:100

TEXT NO. 38

Panel Style: guide_exp_advance_b.ssi
M.U.T.C.D.: 2009 Edition

SYMBOL	ROT	X	Y	WID	HT
AR_Type A	315	60.5	13.5	22.6	35.6

LETTER POSITIONS (X)										LENGTH	SERIES SIZE			
L	O	C	A	L	E	X	I	T	S		E 2000			
16.2	26.9	39.4	50.8	65	74	86	96.7	109.6	113.8	124.1		117.6	12	
2	6	1	T	O	2	6	3						E 2000	
16.2	30.9	46.1	60.6	71.2	91.3	106	120.7						116.7	15,12

NOTES:

- 1. ALL SIGN PANELS SHALL BE FABRICATED USING ASTM D4956 TYPE X1 REFLECTIVE SHEETING

P.H. PLANS
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROJECT MANAGER: *Erin Foley, P.E.* (757) 222-1500
SURVEYED BY, DATE: *Rise Associates, Inc.* (757) 306-4260
DESIGN BY: *HDR Engineering, Inc.*
SUBSURFACE UTILITY BY, DATE: *N/A*

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	2D(12)

SIGN DETAILS

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER

SIGN DETAIL
1:100

TEXT NO. 39

SIGN NUMBER	3403
WIDTH x HGHT.	13'-0" x 7'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White

SYMBOL	ROT	X	Y	WID	HT
MI_1	0	79.5	12	45	36

Panel Style: *guide_exp_advantage_b.ssi*
Dimensions are in inches, tenths
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)		LENGTH	SERIES SIZE														
L	O	C	A	L	E	X	I	T	S							E 2000	
19.2	29.9	42.4	53.8	68	77	89	99.7	112.6	116.8	127.1						117.6	12
2	5	8	T	O	2	5	6									E 2000	
16.7	31	45.2	67.4	78.1	98.2	112.4	127.1									122.5	15,12
1	M	I	L	E												E 2000	
52.8	67.3	79.3	83.7	92.9												47.6	15,10

SIGN DETAIL
1:100

TEXT NO. 40

SIGN NUMBER	3405
WIDTH x HGHT.	17'-0" x 10'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White

SYMBOL	ROT	X	Y	WID	HT
MI_1	0	79.5	12	45	36

Panel Style: *guide_exp_advantage_b.ssi*
Dimensions are in inches, tenths
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)		LENGTH	SERIES SIZE														
E	X	P	R	E	S	S	L	A	N	E						E 2000	
16.2	29.6	45.6	60.3	75.5	88.8	103.1	115.2	130.2	142.7	160.5	176.6					171.6	15
N	E	X	T	E	X	I	T									E 2000	
55.5	68.3	79	90.8	99.8	111.8	122.5	135.3	139.5								93	12

SIGN DETAIL
1:100

TEXT NO. 41

SIGN NUMBER	3502
WIDTH x HGHT.	12'-6" x 5'-0"
BORDER WIDTH	2"
CORNER RADIUS	10"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective COLOR: Brown
LEGEND/BORDER	TYPE: Reflective COLOR: White

SYMBOL	ROT	X	Y	WID	HT

Panel Style: *guide_hw_recreational.ssi*
Dimensions are in inches, tenths
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)		LENGTH	SERIES SIZE														
S	a	n	d	y	B	o	t	t	o	m						ClearviewHwy-5-W	
16.6	26.4	37	47.4	57.2	65.1	75.8	86.4	96.5	103.4	111	122.1					116.8	10/8.1
N	o	t	u	r	e	P	a	r	k							ClearviewHwy-5-W	
25.6	37.2	46.8	54.7	65.3	72.4	79.8	91.3	101.1	111.7	119.2						100.6	10/8.1
E	X	I	T	2	6	1	A									E 2000	
27.7	38.4	51.2	55.4	74.4	89.1	104.3	111.3									98.9	12,15

SIGN DETAIL
1:100

TEXT NO. 42

SIGN NUMBER	3504
WIDTH x HGHT.	21'-0" x 7'-3.7"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White

SYMBOL	ROT	X	Y	WID	HT

Panel Style: *guide_exp_advantage_b.ssi*
Dimensions are in inches, tenths
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)		LENGTH	SERIES SIZE														
H	a	m	p	t	o	n	R	o	a	d	s					ClearviewHwy-5-W	
20.6	38.2	55.2	79.4	94.8	106.8	124.6	-1.5	154.8	171.5	188.4	204.7	221.2				202	16/0
C	e	n	t	e	r	P	k	w	y							ClearviewHwy-5-W	
42	59.2	76.4	92	104.1	121.3	130.3	146.3	162.8	176.6	197.5						158.9	16/0
E	A	S	T													E 2000	
100.5	114.8	128.3	139.4													47.9	15,12
3/4	M	I	L	E												E 2000	
90.4	125.4	137.4	141.8	151												68.1	15,10

NOTES:

- ALL SIGN PANELS SHALL BE FABRICATED USING ASTM D4956 TYPE XI REFLECTIVE SHEETING

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROJECT MANAGER: Erin Foley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rise Associates, Inc. (757) 306-4260
DESIGN BY: HDR Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: N/A

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	2D(14)

SIGN DETAILS

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER

SIGN DETAIL
1:100

TEXT NO. 42

Panel Style: tab1.bss
M.U.T.C.D.: 2009 Edition

SIGN NUMBER	3507
WIDTH x HGHT.	13'-0" x 2'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: White
LEGEND/BORDER	TYPE: Reflective COLOR: White

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)

LETTER	LENGTH	SERIES SIZE
E X I T 2 6 1 A	102.7	10,15

Panel Style: bottom_center(White).bss
Dimensions are in inches, tenths
Letter locations are panel edge to lower left corner

SIGN DETAIL
1:100

TEXT NO. 44

Panel Style: guide_exp_advance_b.ssi
M.U.T.C.D.: 2009 Edition

SIGN NUMBER	3701
WIDTH x HGHT.	18'-6" x 11'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	104.6	39	45	36

LETTER POSITIONS (X)

LETTER	LENGTH	SERIES SIZE
L O C A L E X I T S	117.6	12
2 6 3 T O 2 7 4	124.5	15,12
1/2 M I L E	20.8	12
1 M I L E	47.6	15,10

Panel Style: guide_exp_advance_b.ssi
Dimensions are in inches, tenths
Letter locations are panel edge to lower left corner

SIGN DETAIL
1:100

TEXT NO. 45

Panel Style: guide_exp_advance_b.ssi
M.U.T.C.D.: 2009 Edition

SIGN NUMBER	3802
WIDTH x HGHT.	23'-0" x 8'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White

SYMBOL	ROT	X	Y	WID	HT
AR_Type A	315	226	31	22.6	35.6

LETTER POSITIONS (X)

LETTER	LENGTH	SERIES SIZE
H a m p t o n R o a d s	210.8	16/13
C e n t e r P k w y	168	16/13
E A S T	47.8	15,12

Panel Style: guide_exp_advance_b.ssi
Dimensions are in inches, tenths
Letter locations are panel edge to lower left corner

SIGN DETAIL
1:100

TEXT NO. 46

Panel Style: guide_exp_advance_b.ssi
M.U.T.C.D.: 2009 Edition

SIGN NUMBER	3902
WIDTH x HGHT.	18'-6" x 11'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	104.6	39	45	36

LETTER POSITIONS (X)

LETTER	LENGTH	SERIES SIZE
L O C A L E X I T S	117.6	12
2 6 3 T O 2 7 4	124.5	15,12
1/2 M I L E	20.8	12
1/2 M I L E	65.1	15,10

Panel Style: guide_exp_advance_b.ssi
Dimensions are in inches, tenths
Letter locations are panel edge to lower left corner

NOTES:

- ALL SIGN PANELS SHALL BE FABRICATED USING ASTM D4956 TYPE XI REFLECTIVE SHEETING

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROJECT MANAGER: Erin Foley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rise Associates, Inc. (757) 306-4260
DESIGN BY: HDR Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: N/A

REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA.	64	0064-121-418, P101	2D(15)

SIGN DETAILS

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER

SIGN DETAIL
1:100

TEXT NO. 47

SIGN NUMBER	4199
WIDTH x HIGHT.	18'-6" x 12'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	104.6	51	45	36
AR_Type A	315	98	11.7	22.6	35.6

Panel Style: guide_exp_advance_b.ssi
M.U.T.C.D.: 2009 Edition

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)											LENGTH	SERIES/SIZE	
L	O	C	A	L	E	X	I	T	S			E 2000	
52.2	62.9	75.4	86.8	101	110	122	132.7	145.6	149.8	160.1		117.6	12
2	6	3	T	O	2	7	4					E 2000	
48.8	63.5	78.2	100.3	111	131.1	144.9	159.1					124.5	15,12
T	O											E 2000	
71.8	82.5											20.8	12

SIGN DETAIL
1:100

TEXT NO. 49

SIGN NUMBER	4503
WIDTH x HIGHT.	26'-0" x 13'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White

SYMBOL	ROT	X	Y	WID	HT
M1_4	0	138	45	36	36

Panel Style: guide_exp_advance_b.ssi
M.U.T.C.D.: 2009 Edition

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)											LENGTH	SERIES/SIZE									
E	X	P	R	E	S	S	L	A	N	E		E 2000									
70.2	83.6	99.6	114.3	129.5	142.8	157.1	169.2	184.2	196.7	214.5	230.6		171.6	15							
N	E	X	T		E	X	I	T					E 2000								
109.5	122.3	133	144.8	153.8	165.8	176.5	189.3	193.5					93	12							
J	.	C	I	y	d	e	M	o	r	r	i	s	B	i	v	d	ClearviewHwy-5-W				
17.9	32.2	36.2	53.8	71.7	79.6	95.7	112.7	124.5	142.9	163.2	181	193	204.7	212.9	223.1	241.2	258.8	266.8	282.5	276.2	16/13

SIGN DETAIL
1:100

TEXT NO. 49

SIGN NUMBER	4501
WIDTH x HIGHT.	20'-0" x 13'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green/Yellow
LEGEND/BORDER	TYPE: R/N COLOR: White/Black

SYMBOL	ROT	X	Y	WID	HT
M1_4	0	64.2	110	45	36
AR_Type A	315	106	4	22.6	35.6

Panel Style: guide_exp_advance_b.ssi
M.U.T.C.D.: 2009 Edition

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)											LENGTH	SERIES/SIZE				
S	O	U	T	H								E 2000				
124.2	139.3	152.1	163.9	174.9								60.5	15,12			
M	e	r	c	u	r	y	B	i	v	d		ClearviewHwy-5-W				
33	53.3	70.5	81.9	97.4	114.4	124.4	137	154.1	171.7	179.7	195.4		174	16/13		
J	a	m	e	s	R	i	v	e	r	B	r	ClearviewHwy-5-W				
16.7	30.9	47.9	71.5	87.4	97.7	115.8	132.8	140.4	156.1	173.3	180.7	198.3	215.9		206.5	16/13
E	X	I	T									EM 2000				
57	67.6	80.6	85.1									37	12			
O	N	L	Y									EM 2000				
146	159	172	181.6									47.8	12			

SIGN DETAIL
1:100

TEXT NO. 49, 51

SIGN NUMBER	4502, 4603
WIDTH x HIGHT.	13'-0" x 2'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: White
LEGEND/BORDER	TYPE: Reflective COLOR: White

SYMBOL	ROT	X	Y	WID	HT
M1_4	0	64.2	110	45	36

Panel Style: tab1.bsi
M.U.T.C.D.: 2009 Edition

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)											LENGTH	SERIES/SIZE	
E	X	I	T	2	6	3	A					E 2000	
23	31.9	42.6	46.1	68.6	83.3	98	117.7					109.9	10,15

NOTES:

- ALL SIGN PANELS SHALL BE FABRICATED USING ASTM D4956 TYPE XI REFLECTIVE SHEETING

P.H. PLANS
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

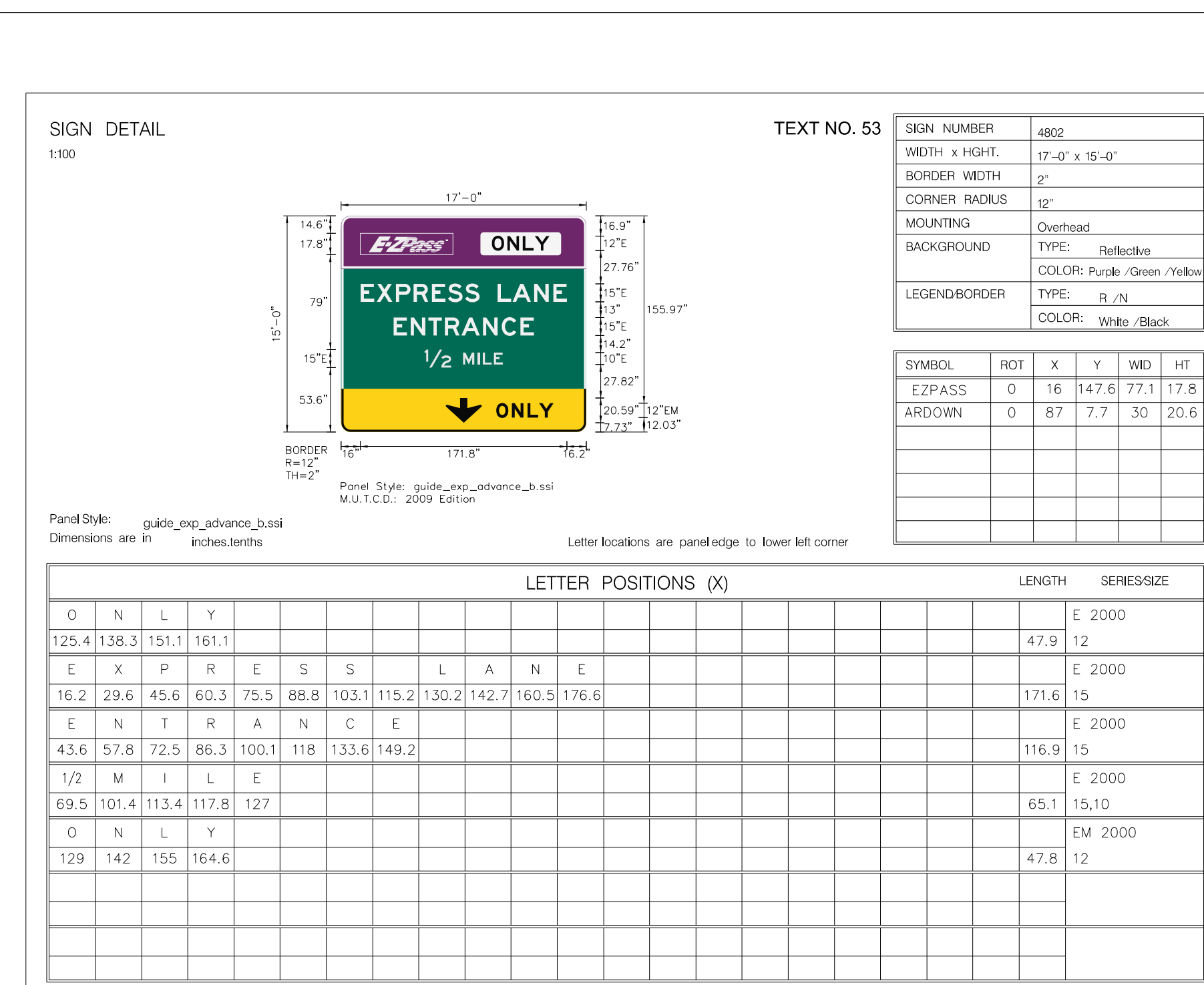
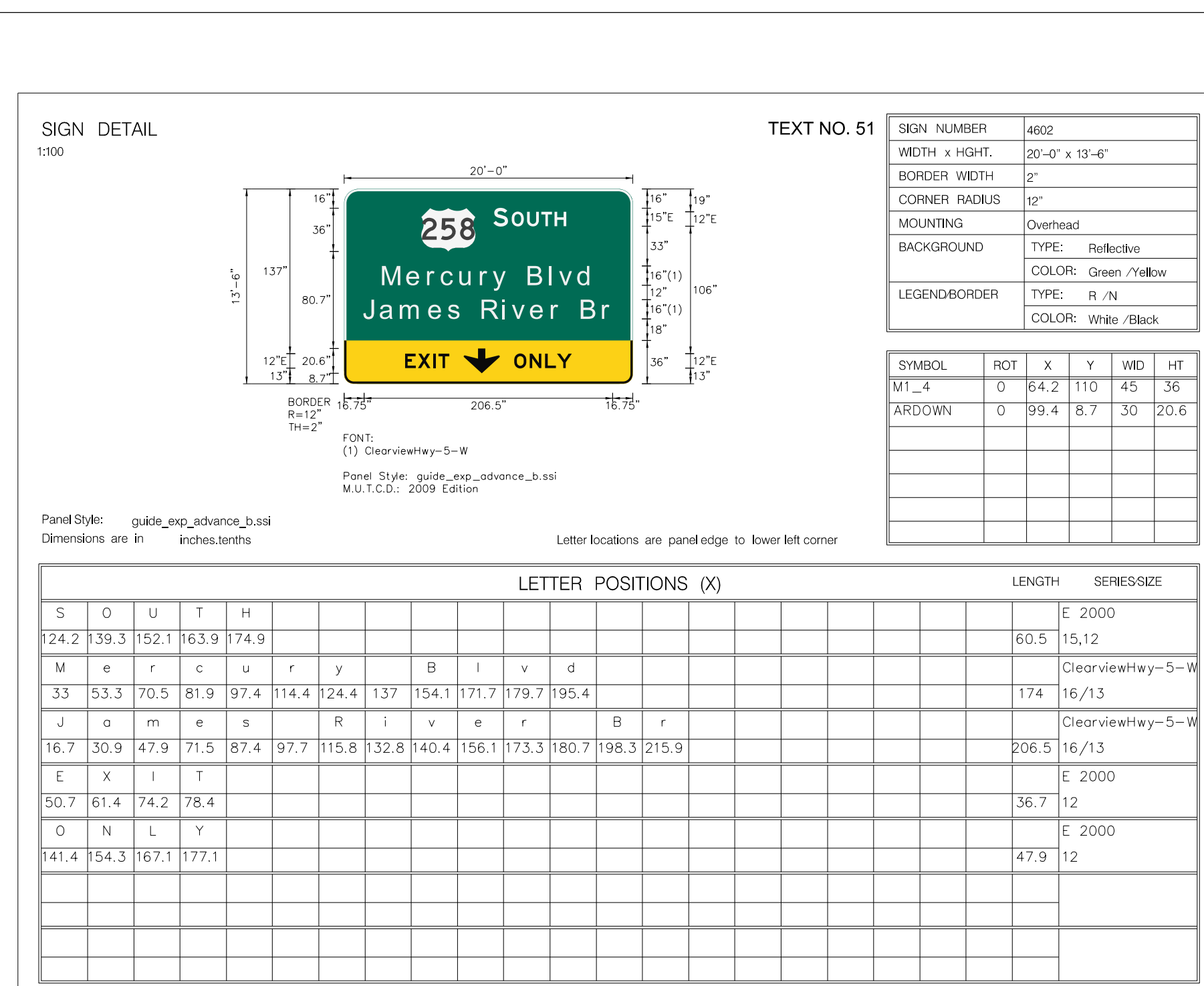
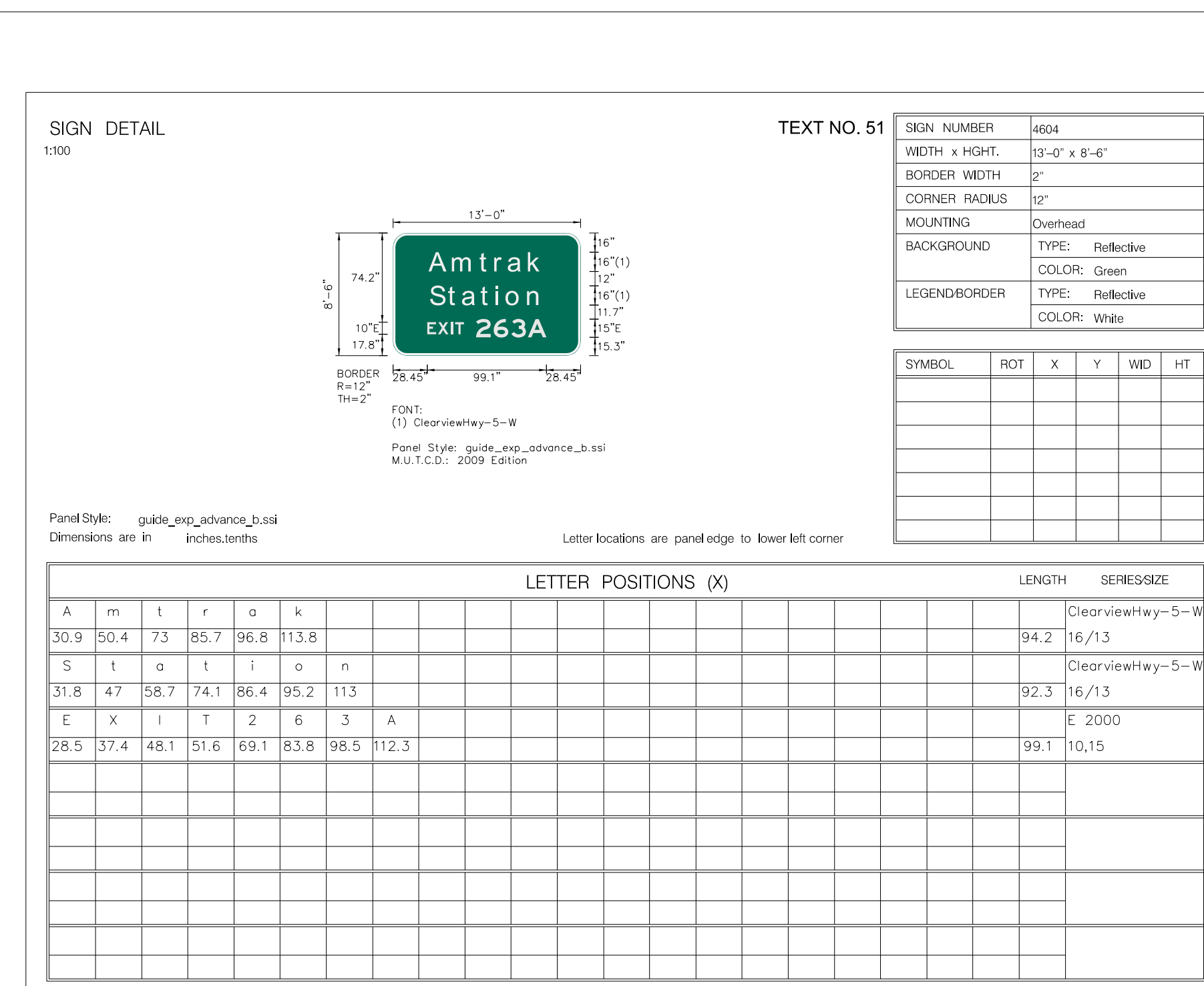
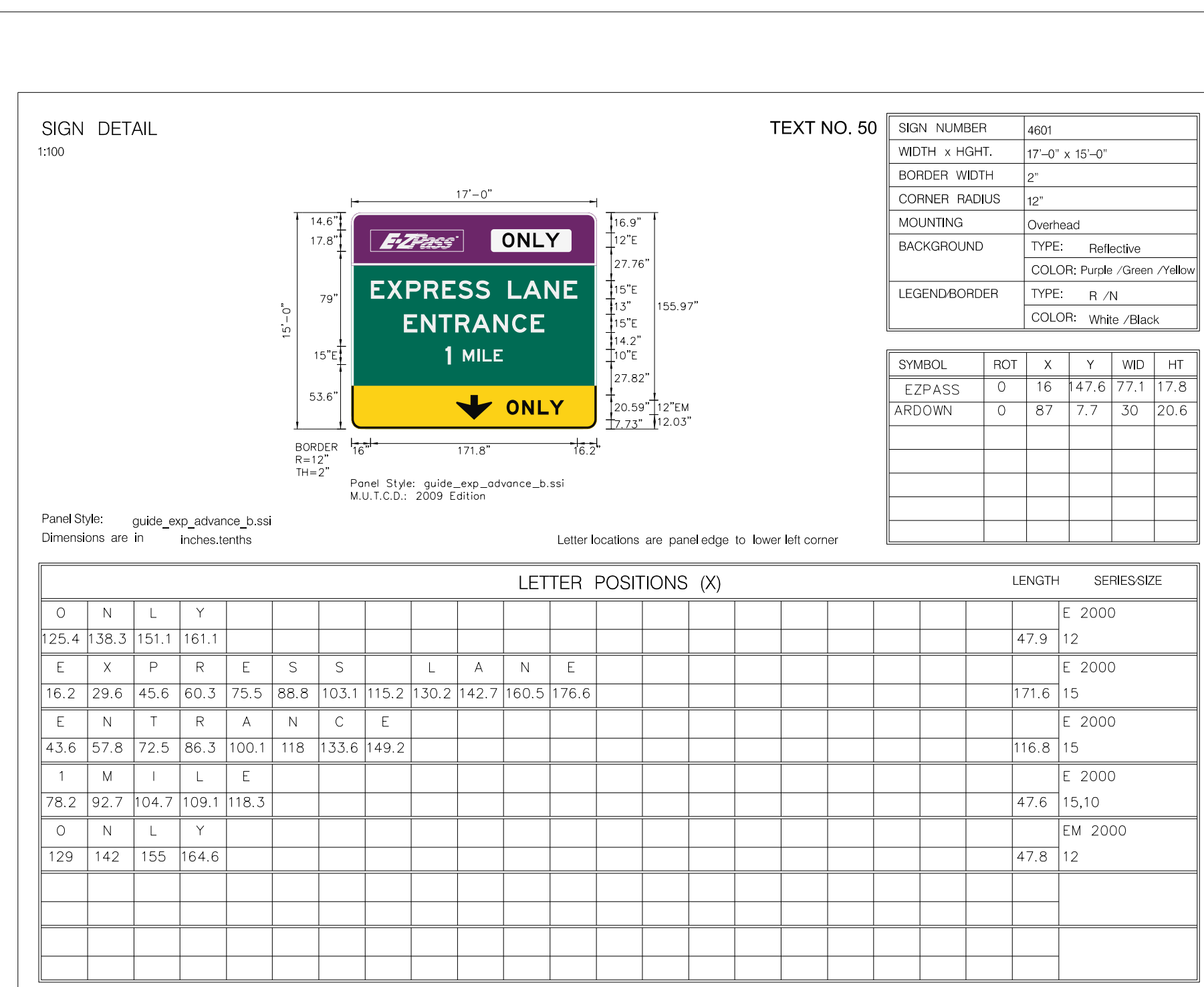
PROJECT MANAGER: Erin Foley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rise Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineer/Inc.
SUBSURFACE UTILITY BY, DATE: N/A

REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA.	64	0064-121-418, P101	2D(16)

SIGN DETAILS

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER



NOTES:

- ALL SIGN PANELS SHALL BE FABRICATED USING ASTM D4956 TYPE XI REFLECTIVE SHEETING

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

NOT TO SCALE

PROJECT
0064-121-418

SHEET NO.
2D(16)

PROJECT MANAGER: *Erin Foley, P.E.* (757) 222-1500
SURVEYED BY, DATE: *Rise Associates, Inc.* (757) 306-4260
DESIGN BY: *HDR Engineering, Inc.*
SUBSURFACE UTILITY BY, DATE: *MZA*

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	2D(17)

SIGN DETAILS

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER

SIGN DETAIL 1:100

TEXT NO. 53

SIGN NUMBER	4803
WIDTH x HGHT.	14'-0" x 8'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND TYPE	Reflective
COLOR	Green
LEGEND/BORDER TYPE	Reflective
COLOR	White

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)		LENGTH	SERIES SIZE									
D	o	w	n	t	o	w	n				ClearviewHwy-5-W	
16.8	34.7	50.7	73.6	89.2	101.2	117.2	140.1				134.3	16/13
H	a	m	p	t	o	n					ClearviewHwy-5-W	
26.4	44	61	85.2	100.6	112.7	130.5					115.1	16/13
E	X	I	T	2	6	7					E 2000	
43.2	52.1	62.8	66.3	83.8	98.5	112.7					81.7	10,15

Panel Style: guide_exp_advance_b.ssi
Dimensions are in inches, tenths
Letter locations are panel edge to lower left corner
FONT: (1) ClearviewHwy-5-W
Panel Style: guide_exp_advance_b.ssi
M.U.T.C.D.: 2009 Edition

SIGN DETAIL 1:100

TEXT NO. 54

SIGN NUMBER	4804
WIDTH x HGHT.	4'-6" x 3'-0"
BORDER WIDTH	0.63"
CORNER RADIUS	1.5"
MOUNTING	Overhead
BACKGROUND TYPE	Reflective
COLOR	White
LEGEND/BORDER TYPE	Reflective
COLOR	Blue

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)		LENGTH	SERIES SIZE									
I	N	N	E	R							D 2000	
4.7	9.5	20.6	31.6	41.1							44.5	12
L	O	O	P								D 2000	
13.9	19.9	27.2	34.6								26.2	8

Panel Style: VDOT Beltway.ssi
Dimensions are in inches, tenths
Letter locations are panel edge to lower left corner
FONT: (1) ClearviewHwy-5-W
Panel Style: VDOT Beltway.ssi
M.U.T.C.D.: 2009 Edition

SIGN DETAIL 1:100

TEXT NO. 54

SIGN NUMBER	4806
WIDTH x HGHT.	17'-0" x 6'-0"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	Overhead
BACKGROUND TYPE	Reflective
COLOR	Green
LEGEND/BORDER TYPE	Reflective
COLOR	White

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)		LENGTH	SERIES SIZE											
L	a	S	a	l	l	e	A	v	e				ClearviewHwy-5-W	
18.3	31.7	43.5	60.3	76.1	93.1	102.9	112.2	124	140.6	158.2	173.9		167.9	16/13
1/2	M	I	L	E									E 2000	
69.5	101.4	113.4	117.8	127									65.1	15,10

Panel Style: guide_exp_advance_b.ssi
Dimensions are in inches, tenths
Letter locations are panel edge to lower left corner
FONT: (1) ClearviewHwy-5-W
Panel Style: guide_exp_advance_b.ssi
M.U.T.C.D.: 2009 Edition

SIGN DETAIL 1:100

TEXT NO. 54, 64

SIGN NUMBER	4807, 5208
WIDTH x HGHT.	13'-0" x 2'-6"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	Overhead
BACKGROUND TYPE	Reflective
COLOR	White
LEGEND/BORDER TYPE	Reflective
COLOR	White

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)		LENGTH	SERIES SIZE									
E	X	I	T	2	6	5	A				E 2000	
23	31.9	42.6	46.1	68.6	83.3	98	117.7				110	10,15

Panel Style: tab1.bsl
Dimensions are in inches, tenths
Letter locations are panel edge to lower left corner
FONT: (1) ClearviewHwy-5-W
Panel Style: tab1.bsl
M.U.T.C.D.: 2009 Edition

NOTES:
1. ALL SIGN PANELS SHALL BE FABRICATED USING ASTM D4956 TYPE X1 REFLECTIVE SHEETING

P.H. PLANS
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROJECT MANAGER: *Erin Ealey, P.E. (757) 222-1500*
 SURVEYED BY, DATE: *Rise Associates, Inc. (757) 306-4260*
 DESIGN BY: *HDR Engineering, Inc.*
 SUBSURFACE UTILITY BY, DATE: *MZA*

REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA.	64	0064-121-418, P101	2D(18)

SIGN DETAILS

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER

SIGN DETAIL
1:100

TEXT NO. 54

SIGN NUMBER	4898
WIDTH x HIGHT.	22'-0" x 18'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green /Yellow
LEGEND/BORDER	TYPE: R /N
	COLOR: White /Black

SYMBOL	ROT	X	Y	WID	HT
MT_1	0	70.6	164	45	36
AR_Type A	315	12	12	20	31.5
AR_Type A	315	164.3	6.4	20	31.5

Panel Style: *guide_exp_advantage_b.ssi*
M.U.T.C.D.: 2009 Edition

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)						LENGTH	SERIES/SIZE
S	O	U	T	H			E 2000
130.6	145.8	158.6	170.4	181.4		60.5	15,12
D o w n t o w n							ClearviewWay-5-W
64.8	82.7	98.7	121.6	137.2	149.2	165.2	188.1
N e w p o r t N e w s							ClearviewWay-5-W
35.3	54.1	69.6	92.4	108.8	126.6	137	144.9
P o r t s m o u t h							ClearviewWay-5-W
56.3	72.2	90	100.4	111.8	127.2	150.7	168.6
O u t e r B o n k s							ClearviewWay-5-W
49.3	69.8	85.2	97.2	114.4	121.8	139.4	156.1
E X I T							EM 2000
115.4	125.9	138.9	143.4				37
O N L Y							EM 2000
201.1	214.1	227.2	236.8				47.8

SIGN DETAIL
1:100

TEXT NO. 54, 64

SIGN NUMBER	4809, 5210
WIDTH x HIGHT.	11'-0" x 2'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: White
LEGEND/BORDER	TYPE: Reflective
	COLOR: White

SYMBOL	ROT	X	Y	WID	HT
MT_1	0	70.6	164	45	36
AR_Type A	315	12	12	20	31.5
AR_Type A	315	164.3	6.4	20	31.5

Panel Style: *tab1.ssi*
M.U.T.C.D.: 2009 Edition

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)						LENGTH	SERIES/SIZE
E	X	I	T	2	6	4	E 2000
21.7	30.6	41.3	44.8	67.3	82	96.2	
264							88.7

SIGN DETAIL
1:100

TEXT NO. 54

SIGN NUMBER	4810
WIDTH x HIGHT.	4'-6" x 3'-0"
BORDER WIDTH	0.63"
CORNER RADIUS	1.5"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: White
LEGEND/BORDER	TYPE: Reflective
	COLOR: Blue

SYMBOL	ROT	X	Y	WID	HT
MT_1	0	70.6	164	45	36
AR_Type A	315	12	12	20	31.5
AR_Type A	315	164.3	6.4	20	31.5

Panel Style: *VDOT Beltway.ssi*
M.U.T.C.D.: 2009 Edition

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)						LENGTH	SERIES/SIZE
O	U	T	E	R			D 2000
3	14.2	24.1	33.4	42.8		48	12
L O O P							D 2000
13.9	19.9	27.2	34.6			26.2	8

SIGN DETAIL
1:100

TEXT NO. 55

SIGN NUMBER	4901
WIDTH x HIGHT.	17'-0" x 12'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Purple /Green /Yellow
LEGEND/BORDER	TYPE: R /N
	COLOR: White /Black

SYMBOL	ROT	X	Y	WID	HT
EZPASS	0	16	117.6	77.1	17.8
ARDOWN	0	87	7.7	30	20.6

Panel Style: *guide_exp_advantage_b.ssi*
M.U.T.C.D.: 2009 Edition

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)						LENGTH	SERIES/SIZE
O	N	L	Y				E 2000
125.4	138.3	151.1	161.1			47.9	12
E X P R E S S L A N E							E 2000
16.2	29.6	45.6	60.3	75.5	88.8	103.1	115.2
E N T R A N C E							E 2000
43.6	57.8	72.5	86.3	100.1	118	133.6	149.2
O N L Y							EM 2000
129	142	155	164.6			47.8	12

NOTES:

- ALL SIGN PANELS SHALL BE FABRICATED USING ASTM D4956 TYPE XI REFLECTIVE SHEETING

P.H. PLANS
 THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROJECT MANAGER *Erin Ealey, P.E. (757) 222-1500*
SURVEYED BY, DATE *Rise Associates, Inc. (757) 306-4260*
DESIGN BY *HDR Engineering, Inc.*
SUBSURFACE UTILITY BY, DATE *N/A*

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	2D(19)

SIGN DETAILS

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER

SIGN DETAIL
1:100

TEXT NO. 55

SIGN NUMBER	4902
WIDTH x HIGHT.	17'-0" x 10'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND TYPE:	Reflective
COLOR:	Green
LEGEND/BORDER TYPE:	Reflective
COLOR:	White

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	79.5	15	45	36

Panel Style: guide_exp_advantage_b.ssi
M.U.T.C.D.: 2009 Edition

Panel Style: guide_exp_advantage_b.ssi
Dimensions are in inches, tenths
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)											LENGTH	SERIES/SIZE	
E	X	P	R	E	S	S	L	A	N	E			E 2000
16.2	29.6	45.6	60.3	75.5	88.8	103.1	115.2	130.2	142.7	160.5	176.6		171.6 15
N	E	X	T	E	X	I	T						E 2000
55.5	68.3	79	90.8	99.8	111.8	122.5	135.3	139.5					93 12

SIGN DETAIL
1:100

TEXT NO. 56

SIGN NUMBER	4903
WIDTH x HIGHT.	12'-6" x 8'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND TYPE:	Reflective
COLOR:	Green
LEGEND/BORDER TYPE:	Reflective
COLOR:	White

SYMBOL	ROT	X	Y	WID	HT
AR_Type A	315	60.6	13.5	22.6	35.6

Panel Style: guide_exp_advantage_b.ssi
M.U.T.C.D.: 2009 Edition

Panel Style: guide_exp_advantage_b.ssi
Dimensions are in inches, tenths
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)											LENGTH	SERIES/SIZE	
L	O	C	A	L	E	X	I	T	S				E 2000
16.2	26.9	39.4	50.8	65	74	86	96.7	109.6	113.8	124.1			117.6 12
2	6	3	T	O	2	6	1						E 2000
16.2	30.9	45.6	67.8	78.5	98.5	113.2	128.4						116.7 15,12

SIGN DETAIL
1:100

TEXT NO. 57

SIGN NUMBER	5005
WIDTH x HIGHT.	17'-0" x 12'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND TYPE:	Reflective
COLOR:	Purple / Green
LEGEND/BORDER TYPE:	Reflective
COLOR:	White

SYMBOL	ROT	X	Y	WID	HT
EZPASS	0	16	111.6	77.1	17.8

Panel Style: guide_exp_advantage_b.ssi
M.U.T.C.D.: 2009 Edition

Panel Style: guide_exp_advantage_b.ssi
Dimensions are in inches, tenths
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)											LENGTH	SERIES/SIZE	
O	N	L	Y										E 2000
125.4	138.3	151.1	161.1										47.9 12
E	X	P	R	E	S	S	L	A	N	E			E 2000
16.2	29.6	45.6	60.3	75.5	88.8	103.1	115.2	130.2	142.7	160.5	176.6		171.6 15
E	N	T	R	A	N	C	E						E 2000
43.6	57.8	72.5	86.3	100.1	118	133.6	149.2						116.9 15
1	1/4	M	I	L	E								E 2000
62.2	76.7	108.7	120.7	125.1	134.3								79.6 15,10

SIGN DETAIL
1:100

TEXT NO. 58

SIGN NUMBER	5007
WIDTH x HIGHT.	12'-6" x 7'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND TYPE:	Reflective
COLOR:	Green
LEGEND/BORDER TYPE:	Reflective
COLOR:	White

SYMBOL	ROT	X	Y	WID	HT

Panel Style: guide_exp_advantage_b.ssi
M.U.T.C.D.: 2009 Edition

Panel Style: guide_exp_advantage_b.ssi
Dimensions are in inches, tenths
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)											LENGTH	SERIES/SIZE	
L	O	C	A	L	E	X	I	T	S				E 2000
16.2	26.9	39.4	50.8	65	74	86	96.7	109.6	113.8	124.1			117.6 12
2	6	3	T	O	2	6	1						E 2000
17	31.7	46.4	68.6	77.5	95.9	110.6	125.7						113.2 15,10
1/2	M	I	L	E									E 2000
41.1	73.1	85.1	89.5	98.7									65.1 15,10

NOTES:

- ALL SIGN PANELS SHALL BE FABRICATED USING ASTM D4956 TYPE XI REFLECTIVE SHEETING

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROJECT MANAGER: *Erin Foley, P.E. (757) 222-1500*
SURVEYED BY, DATE: *Rise Associates, Inc. (757) 306-4260*
DESIGN BY: *HDR Engineering, Inc.*
SUBSURFACE UTILITY BY, DATE: *N/A*

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	2D(20)

SIGN DETAILS

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER

SIGN DETAIL
1:100

TEXT NO. 59

SIGN NUMBER	5008
WIDTH x HGHT.	7'-6" x 5'-0"
BORDER WIDTH	1.5"
CORNER RADIUS	8"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White

SYMBOL	ROT	X	Y	WID	HT
AR_Type A	315	59.7	6	18	28.4

Panel Style: *guide_hwy_gore.ssi*
M.U.T.C.D.: 2009 Edition

Panel Style: *guide_hwy_gore.ssi*
Dimensions are in inches, tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)					LENGTH	SERIES SIZE
E	X	I	T			EM 2000
26.5	37.1	50	54.6		37	12
2	6	4				D 2000
12.2	25.4	37.4			36.4	15

SIGN DETAIL
1:100

TEXT NO. 61

SIGN NUMBER	5203
WIDTH x HGHT.	9'-0" x 5'-0"
BORDER WIDTH	1.5"
CORNER RADIUS	8"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White

SYMBOL	ROT	X	Y	WID	HT
AR_Type A	315	77.7	6	18	28.4

Panel Style: *guide_hwy_gore.ssi*
M.U.T.C.D.: 2009 Edition

Panel Style: *guide_hwy_gore.ssi*
Dimensions are in inches, tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)					LENGTH	SERIES SIZE
E	X	I	T			EM 2000
35.5	46.1	59	63.6		37	12
2	6	5	A			D 2000
19.3	32.5	45.7	60.9		54.3	15

SIGN DETAIL
1:100

TEXT NO. 64

SIGN NUMBER	5209
WIDTH x HGHT.	19'-0" x 10'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	52.6	128	45	36

Panel Style: *guide_exp_advantage_b.ssi*
M.U.T.C.D.: 2009 Edition

Panel Style: *guide_exp_advantage_b.ssi*
Dimensions are in inches, tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)					LENGTH	SERIES SIZE
S	O	U	T	H		E 2000
112.6	127.8	140.6	152.4	163.4		60.5
D o w n t o w n						ClearviewHwy-5-W
46.8	64.7	80.7	103.6	119.2	131.2	147.2
N e w p o r t						ClearviewHwy-5-W
17.3	36.1	51.6	74.4	90.8	108.6	119
S u f f o l k						ClearviewHwy-5-W
66.9	83.6	99.3	110.4	122.1	139.9	149.7
1 M I L E						E 2000
90.2	104.7	116.7	121.1	130.3		47.6

SIGN DETAIL
1:100

TEXT NO. 64

SIGN NUMBER	5207
WIDTH x HGHT.	22'-6" x 10'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White

SYMBOL	ROT	X	Y	WID	HT
VC2A3	0	91	74	45	36
AR_Type A	315	226.6	41.6	20	31.5

Panel Style: *guide_exp_advantage_b.ssi*
M.U.T.C.D.: 2009 Edition

Panel Style: *guide_exp_advantage_b.ssi*
Dimensions are in inches, tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)					LENGTH	SERIES SIZE
E	A	S	T			E 2000
151	165.3	178.8	189.9		47.9	15,12
A r m i s t e a d						ClearviewHwy-5-W
17.6	37.1	49.1	73	81.2	94.9	107
L a S a l l e						ClearviewHwy-5-W
31.9	45.3	57.1	73.9	89.7	106.7	116.5
A v e						ClearviewHwy-5-W
151.2	168.5	186.1	201.8		196	16,13
1 M I L E						E 2000
90.2	104.7	116.7	121.1	130.3		47.6

NOTES:

- ALL SIGN PANELS SHALL BE FABRICATED USING ASTM D4956 TYPE XI REFLECTIVE SHEETING

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROJECT MANAGER: Erin Foley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: N/A

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	2D(21)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER

SIGN DETAILS

SIGN DETAIL
1:00

TEXT NO. 62

SIGN NUMBER	5204
WIDTH x HIGHT	6'-6" x 4'-0"
BORDER WIDTH	1.75"
CORNER RADIUS	6"
MOUNTING	Ground
BACKGROUND TYPE	Reflective
BACKGROUND COLOR	Blue
LEGEND/BORDER TYPE	Reflective
LEGEND/BORDER COLOR	White

SYMBOL	ROT	X	Y	WID	HT

Panel Style: guide_wy_motor-serv.ssi
Dimensions are in inches, tenths
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)										LENGTH	SERIES SIZE	
L	O	D	G	I	N	G					D 2000	
11.8	19.3	28.6	37.4	46.4	50.4	59.4					54.4	10
N	E	X	T	E	X	I	T				D 2000	
6.4	15.6	22.8	30.4	36.6	46.6	53.8	62.3	65.4			65.2	10

NOTES:

- 1. ALL SIGN PANELS SHALL BE FABRICATED USING ASTM D4956 TYPE XI REFLECTIVE SHEETING

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rhodes Associates, Inc. (757) 306-4260
DESIGN BY: HDR Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: N/A

SIGN SCHEDULE

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	2E(1)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER

TEXT NO.	SIGN ASSEMBLY NO(s).	TEXT	SIGN ASSEMBLY COMPONENTS			SIGN PANEL AREA (sq. ft.)		PROP. SIGN STRUCTURE ST'D.	PROP. SIGN STRUCTURE NUMBER	REMARKS	
			MUTCD ST'D.	PANEL SIZE		QTY.	REF. ASSEMBLY				ALL ASSEMBLIES
				W	H						
1	301		SPECIAL	204"	144"	1	204	204	OVERHEAD SIGN STRUCTURE	1	SEE DETAIL SHEET 2D(1)
			EI-50P	72"	30"	1	15	15			
			R5-2	48"	48"	1	16	16			
2	601, 2911, 3501		SPECIAL	239"	42"	3	6971	20913	OVERHEAD SIGN STRUCTURE	2, 23, 34	SEE DETAIL SHEET 2D(1) SIGN TO BE INSTALLED OVER DMS
3	602, 1604		SPECIAL	204"	144"	2	204	408	OVERHEAD SIGN STRUCTURE	1	SEE DETAIL SHEET 2D(1)
			EI-50P	72"	30"	2	15	30			
			R5-2	48"	48"	2	16	32			
4	701, 901, 1801, 1806, 3005, 3103, 3207, 3301, 4505, 4606, 4701, 4811, 5003, 5202		SPECIAL	138"	174"	14	16675	23345	SSP-VIA-AU W/8 X 40 STEEL	NA	4'-0" X 9'-6" FOUNDATION SEE DETAIL SHEET 2D(1) USE BREAKAWAY POSTS
5	801, 3104, 3201, 4608, 4801, 5206		SPECIAL	239"	42"	6	6971	41826	OVERHEAD SIGN STRUCTURE	4, 27, 28, 44, 45, 53	SEE DETAIL SHEET 2D(1) SIGN TO BE INSTALLED OVER A-DMS
6	802, 803, 804, 805		SPECIAL	204"	144"	1	204	204	OVERHEAD SIGN STRUCTURE	5	SEE DETAIL SHEET 2D(2)
			EI-50P	72"	30"	1	15	15			
			R5-2	48"	48"	1	16	16			
			SPECIAL	234"	126"	1	20475	20475			
			SPECIAL	168"	30"	1	35	35			
			D9-2	30"	30"	1	6.25	6.25			
			SPECIAL	60"	66"	1	27.5	27.5			
7	902, 903		SPECIAL	239"	42"	1	6971	6971	OVERHEAD SIGN STRUCTURE	6	SEE DETAIL SHEETS 2D(1), 2D(3) SIGN 902 TO BE INSTALLED OVER C-DMS
			SPECIAL	252"	138"	1	241.5	241.5			
8	1001, 1002		SPECIAL	204"	150"	1	212.5	212.5	OVERHEAD SIGN STRUCTURE	7	SEE DETAIL SHEET 2D(3)
			EI-50P	72"	30"	1	15	15			
			R5-2	48"	48"	1	16	16			
			SPECIAL	372"	96"	1	248	248			
9	1003, 1004, 1005		SPECIAL	240"	120"	1	200	200	OVERHEAD SIGN STRUCTURE	8	SEE DETAIL SHEETS 2D(2), 2D(4)
			SPECIAL	234"	126"	1	20475	20475			
			SPECIAL	168"	30"	1	35	35			
			D9-2	30"	30"	1	6.25	6.25			

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.





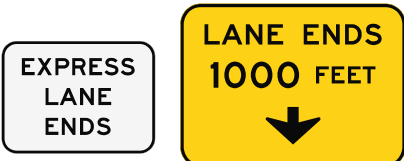

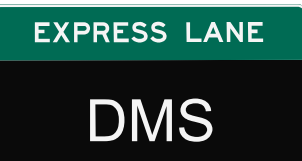
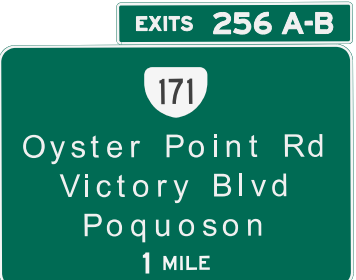





PROJECT MANAGER: Erin Foley, P.E. (757) 222-1500
 SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
 DESIGN BY: HDR Engineering, Inc.
 SUBSURFACE UTILITY BY, DATE: N/A

SIGN SCHEDULE

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	2E(2)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER

TEXT NO.	SIGN ASSEMBLY NO(s).	TEXT	SIGN ASSEMBLY COMPONENTS			SIGN PANEL AREA (sq. ft.)		PROP. SIGN STRUCTURE ST'D.	PROP. SIGN STRUCTURE NUMBER	REMARKS	
			MUTCD ST'D.	PANEL SIZE		QTY.	REF. ASSEMBLY				ALL ASSEMBLIES
				W	H						
10	1006		SPECIAL	132"	78"	1	71.5	71.5	OVERHEAD SIGN STRUCTURE	8	SEE DETAIL SHEET 2D(4)
11	1101		SPECIAL	132"	90"	1	82.5	82.5	SSP-VIA-S W12 X 16 STEEL	NA	3'-0" X 7'-0" FOUNDATION SEE DETAIL SHEET 2D(5) USE BREAKAWAY POSTS
12	1102, 2101, 2901, 3601, 3901, 5201		R5-11(V)	36"	24"	6	6	36	STP-1 SINGLE 2 1/2" 12 GA.	NA	FOUNDATION TYPE A USE BREAKAWAY POSTS
13	1103, 1805, 2402, 2910, 3905		SPECIAL R2-1	48" 48"	24" 60"	5 5	8 20	40 100	OVERHEAD SIGN STRUCTURE	9, 12, 20, 22, 38	SEE DETAIL SHEET 2D(4)
14	1104, 1105		R3-45 SPECIAL	90" 132"	66" 96"	1 1	41.25 88	41.25 88	OVERHEAD SIGN STRUCTURE	9	SEE DETAIL SHEET 2D(5)
15	1301		R3-42a	60"	84"	1	35	35	SPECIAL (SEE SHEET 26)	NA	MOUNTED ON TOP OF BARRIER WALL
16	1601, 1602, 1603	 	SPECIAL SPECIAL SPECIAL	239" 252" 168"	42" 174" 30"	1 1 1	69.71 304.5 35	69.71 304.5 35	OVERHEAD SIGN STRUCTURE	10	SEE DETAIL SHEETS 2D(1) 2D(5) SIGN 1601 TO BE INSTALLED OVER DMS
17	1802, 2906		R2-1	48"	60"	2	20	40	SSP-V-A-C W4 X 13 STEEL	NA	1'-9" X 4'-6" FOUNDATION USE BREAKAWAY POST
18	1803, 1804	 	SPECIAL SPECIAL R2-1	239" 48" 48"	42" 24" 60"	1 1 1	69.71 8 20	69.71 8 20	OVERHEAD SIGN STRUCTURE	12	SEE DETAIL SHEETS 2D(1) 2D(4)
19	1807	 	SPECIAL E1-5aP R5-2	204" 72" 48"	144" 30" 48"	1 1 1	204 15 16	204 15 16	OVERHEAD SIGN STRUCTURE	13	SEE DETAIL SHEET 2D(2)

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.





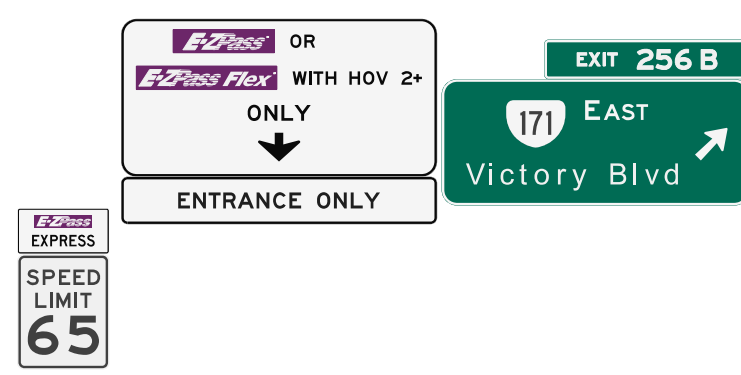


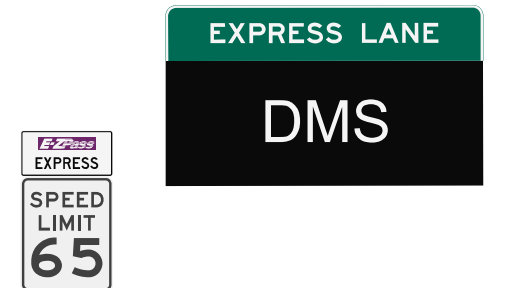

PROJECT MANAGER: Erin Foley, P.E. (757) 222-1500
 SURVEYED BY, DATE: Rhine Associates, Inc. (757) 306-4260
 DESIGN BY: HDR Engineering, Inc.
 SUBSURFACE UTILITY BY, DATE: N/A

SIGN SCHEDULE

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	2E(3)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER

TEXT NO.	SIGN ASSEMBLY NO(s).	TEXT	SIGN ASSEMBLY COMPONENTS			SIGN PANEL AREA (sq. ft.)		PROP. SIGN STRUCTURE ST'D.	PROP. SIGN STRUCTURE NUMBER	REMARKS	
			MUTCD ST'D.	PANEL SIZE		QTY.	REG. ASSEMBLY				ALL ASSEMBLIES
				W	H						
20	1901,1902,1903,1904,1905,1906		SPECIAL	239"	42"	1	69.71	69.71	OVERHEAD SIGN STRUCTURE	14	SEE DETAIL SHEETS 2D(1) 2D(6) 2D(7) SIGN 1901 TO BE INSTALLED OVER C-DMS
			SPECIAL	239"	36"	1	59.75	59.75			
			SPECIAL	252"	150"	1	262.5	262.5			
			SPECIAL	156"	30"	1	32.5	32.5			
			SPECIAL	318"	78"	1	172.25	172.25			
			SPECIAL	156"	30"	1	32.5	32.5			
			D9-2	30"	30"	1	6.25	6.25			
21	1907,2004		SPECIAL	132"	78"	2	71.5	143	OVERHEAD SIGN STRUCTURE	14,15	SEE DETAIL SHEET 2D(7)
22	2001,2002,2003		SPECIAL	204"	150"	1	212.5	212.5	OVERHEAD SIGN STRUCTURE	15	SEE DETAIL SHEETS 2D(3) 2D(7)
			EI-50P	72"	30"	1	15	15			
			R5-2	48"	48"	1	16	16			
			SPECIAL	204"	36"	1	51	51			
			SPECIAL	252"	138"	1	241.5	241.5			
23	2005,2006		SPECIAL	132"	78"	2	71.5	143	OVERHEAD SIGN STRUCTURE	16	SEE DETAIL SHEETS 2D(7) 2D(8)
			SPECIAL	132"	102"	2	93.5	93.5			
24	2007,2008,2009,2010,2011		SPECIAL	240"	120"	1	200	200	OVERHEAD SIGN STRUCTURE	17	SEE DETAIL SHEETS 2D(4) 2D(6) 2D(8)
			SPECIAL	240"	36"	1	60	60			
			SPECIAL	234"	96"	1	156	156			
			SPECIAL	156"	30"	1	32.5	32.5			
			SPECIAL	48"	24"	1	8	8			
			R2-1	48"	60"	1	20	20			
25	2102,5301		SPECIAL	48"	48"	2	16	32	SSP-VA-B W4 X 13 STEEL	NA	1'-9" X 4'-6" FOUNDATION USE BREAKAWAY POST
26	2201		SPECIAL	132"	90"	1	82.5	82.5	OVERHEAD SIGN STRUCTURE	18	SEE DETAIL SHEET 2D(8)
27	2202,2203		SPECIAL	239"	42"	1	69.71	69.71	OVERHEAD SIGN STRUCTURE	19	SEE DETAIL SHEETS 2D(1) 2D(4) SIGN 2202 TO BE INSTALLED OVER DMS
			SPECIAL	48"	24"	1	8	8			
			R2-1	48"	60"	1	20	20			
28	2401		SPECIAL	132"	90"	1	82.5	82.5	OVERHEAD SIGN STRUCTURE	20	SEE DETAIL SHEET 2D(8)

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROJECT MANAGER: Erin Foley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rhine Associates, Inc. (757) 306-4260
DESIGN BY: HDR Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: N/A

SIGN SCHEDULE

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	2E(4)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER

TEXT NO.	SIGN ASSEMBLY NO(s).	TEXT	SIGN ASSEMBLY COMPONENTS			SIGN PANEL AREA (sq. ft.)		PROP. SIGN STRUCTURE ST'D.	PROP. SIGN STRUCTURE NUMBER	REMARKS	
			MUTCD ST'D.	W	H	QTY.	REF. ASSEMBLY				ALL ASSEMBLIES
29	2902, 2903, 2904, 2905		SPECIAL	312"	150"	1	325	325	OVERHEAD SIGN STRUCTURE	SEE DETAIL SHEETS 2D(4) 2D(9)	
			SPECIAL	168"	30"	1	35	35			
			SPECIAL	240"	120"	1	200	200			
			SPECIAL	48"	24"	1	8	8			
			R2-1	48"	60"	1	20	20			
30	2907, 2908, 2909		SPECIAL	204"	150"	1	212.5	212.5	OVERHEAD SIGN STRUCTURE	SEE DETAIL SHEETS 2D(3) 2D(9)	
			E1-5aP	72"	30"	1	15	15			
			R5-2	48"	48"	1	16	16			
			SPECIAL	228"	156"	1	247	247			
31	3001		SPECIAL	168"	48"	1	56	56	SSP-VIA-G W12 X 16 STEEL	NA	3'-0" X 7'-0" FOUNDATION USE BREAKAWAY POSTS SEE DETAIL SHEET 2D(10)
32	3002		SPECIAL	239"	42"	1	69.71	69.71	OVERHEAD SIGN STRUCTURE	24	SEE DETAIL SHEET 2D(1) SIGN TO BE INSTALLED OVER C-DMS
33	3003, 3004		SPECIAL	150"	90"	1	93.75	93.75	OVERHEAD SIGN STRUCTURE	25	SEE DETAIL SHEETS 2D(1) 2D(10)
			SPECIAL	204"	144"	1	204	204			
			E1-5aP	72"	30"	1	15	15			
34	3101		SPECIAL	156"	102"	1	110.5	110.5	OVERHEAD SIGN STRUCTURE	26	SEE DETAIL SHEET 2D(10)
35	3202, 3203		SPECIAL	150"	90"	1	93.75	93.75	OVERHEAD SIGN STRUCTURE	29	SEE DETAIL SHEETS 2D(2) 2D(10)
			SPECIAL	204"	144"	1	204	204			
			E1-5aP	72"	30"	1	15	15			
36	3204, 3205, 3206		SPECIAL	156"	90"	1	97.5	97.5	OVERHEAD SIGN STRUCTURE	30	SEE DETAIL SHEETS 2D(2) 2D(4) 2D(11)
			SPECIAL	204"	144"	1	204	204			
			E1-5aP	72"	30"	1	15	15			
			R5-2	48"	48"	1	16	16			
			SPECIAL	48"	24"	1	8	8			
37	3302, 3303, 3304		SPECIAL	239"	42"	1	69.71	69.71	OVERHEAD SIGN STRUCTURE	31	SEE DETAIL SHEETS 2D(1) 2D(11) SIGN 3302 TO BE INSTALLED OVER C-DMS
			SPECIAL	252"	102"	1	178.5	178.5			
			SPECIAL	168"	30"	1	35	35			

P.H. PLANS

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PROJECT MANAGER: Erin Eoley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rhodes Associates, Inc. (757) 306-4260
DESIGN BY: HDR Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: N/A

SIGN SCHEDULE

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	2E(5)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER

TEXT NO.	SIGN ASSEMBLY NO(s).	TEXT	SIGN ASSEMBLY COMPONENTS			SIGN PANEL AREA (sq. ft.)		PROP. SIGN STRUCTURE ST'D.	PROP. SIGN STRUCTURE NUMBER	REMARKS	
			MUTCD ST'D.	PANEL SIZE		QTY.	REF. ASSEMBLY				ALL ASSEMBLIES
				W	H						
38	3401		SPECIAL	150"	102"	1	106.25	106.25	OVERHEAD SIGN STRUCTURE	32	SEE DETAIL SHEET 2D(11)
39	3402, 3403		SPECIAL	156"	90"	1	97.5	97.5	OVERHEAD SIGN STRUCTURE	32	SEE DETAIL SHEETS 2D(11) 2D(12)
			SPECIAL	204"	144"	1	204	204			
			EI-50P	72"	30"	1	15	15			
			R5-2	48"	48"	1	16	16			
40	3404, 3405		SPECIAL	204"	150"	1	212.5	212.5	OVERHEAD SIGN STRUCTURE	33	SEE DETAIL SHEETS 2D(3) 2D(12)
			EI-50P	72"	30"	1	15	15			
			R5-2	48"	48"	1	16	16			
			SPECIAL	204"	126"	1	178.5	178.5			
41	3502		SPECIAL	144"	78"	1	78	78	SSP-VIA-S W12 X 16 STEEL	NA	3'-0" X 7'-0" FOUNDATION USE BREAKAWAY POSTS SEE DETAIL SHEET 2D(12)
42	3503, 3504, 3505, 3506, 3507, 3808		SPECIAL	240"	120"	1	200	200	OVERHEAD SIGN STRUCTURE	35	SEE DETAIL SHEETS 2D(4) 2D(12) 2D(13) 2D(14)
			SPECIAL	252"	126"	1	220.5	220.5			
			SPECIAL	156"	30"	1	32.5	32.5			
			SPECIAL	252"	126"	1	220.5	220.5			
			SPECIAL	156"	30"	1	32.5	32.5			
			D9-7	30"	30"	1	6.25	6.25			
			D9-8	30"	30"	1	6.25	6.25			
			SPECIAL	48"	24"	1	8	8			
			R2-1	48"	60"	1	20	20			
43	3602		D10-3	12"	48"	1	4	4	STP-1 SINGLE 2" 14 GAL.	NA	FOUNDATION TYPE A USE BREAKAWAY POST
44	3701, 3702		SPECIAL	222"	138"	1	212.75	212.75	OVERHEAD SIGN STRUCTURE	36	SEE DETAIL SHEETS 2D(13) 2D(14)
			SPECIAL	222"	36"	1	55.5	55.5			
45	3801, 3802, 3803		SPECIAL	239"	42"	1	69.71	69.71	OVERHEAD SIGN STRUCTURE	37	SEE DETAIL SHEETS 2D(11) 2D(3) 2D(14) SIGN 3801 TO BE INSTALLED OVER DMS
			SPECIAL	276"	102"	1	195.5	195.5			
			SPECIAL	156"	30"	1	32.5	32.5			

P.H. PLANS

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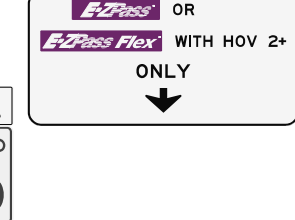





PROJECT MANAGER: *Erin Foley, P.E. (757) 222-1500*
SURVEYED BY, DATE: *Rhodes Associates, Inc. (757) 306-4260*
DESIGN BY: *HDR Engineering, Inc.*
SUBSURFACE UTILITY BY, DATE: *MZA*

SIGN SCHEDULE

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	2E(6)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER

TEXT NO.	SIGN ASSEMBLY NO(s).	TEXT	SIGN ASSEMBLY COMPONENTS			SIGN PANEL AREA (sq. ft.)		PROP. SIGN STRUCTURE ST'D.	PROP. SIGN STRUCTURE NUMBER	REMARKS	
			MUTCD ST'D.	PANEL SIZE		QTY.	REF. ASSEMBLY				ALL ASSEM-BLIES
				W	H						
46	3902, 3903		SPECIAL	222"	138"	1	212.75	212.75	OVERHEAD SIGN STRUCTURE	38	SEE DETAIL SHEETS 2D(13) 2D(14)
			SPECIAL	222"	36"	1	55.5	55.5			
47	4101, 4102		SPECIAL	222"	150"	1	231.25	231.25	OVERHEAD SIGN STRUCTURE	39	SEE DETAIL SHEETS 2D(13) 2D(15)
			SPECIAL	222"	36"	1	55.5	55.5			
48	4401, 4402, 5001, 5002		SPECIAL	240"	120"	2	200	400	OVERHEAD SIGN STRUCTURE	40, 50	SEE DETAIL SHEET 2D(4)
			SPECIAL	48"	24"	2	8	16			
			R2-1	48"	60"	2	20	40			
49	4501, 4502, 4503, 4504		SPECIAL	204"	150"	1	212.5	212.5	OVERHEAD SIGN STRUCTURE	41	SEE DETAIL SHEETS 2D(3) 2D(15)
			EI-50P	72"	30"	1	15	15			
			R5-2	48"	48"	1	16	16			
			SPECIAL	312"	156"	1	338	338			
			SPECIAL	240"	162"	1	270	270			
50	4601		SPECIAL	204"	180"	1	255	255	OVERHEAD SIGN STRUCTURE	42	SEE DETAIL SHEET 2D(16)
			EI-50P	72"	30"	1	15	15			
51	4602, 4603, 4604, 4605		SPECIAL	239"	42"	1	69.71	69.71	OVERHEAD SIGN STRUCTURE	43	SEE DETAIL SHEETS 2D(1) 2D(15) 2D(16) SIGN 4605 TO BE INSTALLED OVER C-DMS
			SPECIAL	156"	102"	1	110.5	110.5			
			SPECIAL	240"	162"	1	270	270			
			SPECIAL	156"	30"	1	32.5	32.5			
52	4607		W9-2L	48"	48"	1	16	16	SSP-VA-B W4 X 13 STEEL	NA	1'-9" X 4'-6" FOUNDATION USE BREAKAWAY POST
53	4802, 4803		SPECIAL	204"	180"	1	255	255	OVERHEAD SIGN STRUCTURE	46	SEE DETAIL SHEETS 2D(16) 2D(17)
			EI-50P	72"	30"	1	15	15			
			R5-2	48"	48"	1	16	16			
			R5-2	168"	102"	1	119	119			

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDR Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: N/A

SIGN SCHEDULE

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	2E(7)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER

TEXT NO.	SIGN ASSEMBLY NO(s).	TEXT	SIGN ASSEMBLY COMPONENTS			SIGN PANEL AREA (sq. ft.)		PROP. SIGN STRUCTURE ST'D.	PROP. SIGN STRUCTURE NUMBER	REMARKS	
			MUTCD ST'D.	W	H	QTY.	REF. ASSEMBLY				ALL ASSEMBLIES
54	4804, 4805, 4806, 4807, 4808, 4809, 4810		SPECIAL	239"	42"	1	69.71	69.71	OVERHEAD SIGN STRUCTURE	47	SEE DETAIL SHEETS 2D(1) 2D(17) 2D(18) SIGN 4805 TO BE INSTALLED OVER C-DMS
			SPECIAL	204"	72"	1	102	02			
			SPECIAL	156"	30"	1	32.5	32.5			
			SPECIAL	264"	216"	1	396	396			
			SPECIAL	132"	30"	1	27.5	27.5			
			D9-2	222"	138"	1	212.75	212.75			
			SPECIAL	54"	54"	2	20.25	40.5			
			SPECIAL	54"	36"	1	13.5	13.5			
			M6-3	2"	15"	1	2.9	2.9			
SPECIAL	54"	36"	1	13.5	13.5						
M5-2R	2"	15"	1	2.9	2.9						
55	4901, 4902		SPECIAL	204"	150"	1	212.5	212.5	OVERHEAD SIGN STRUCTURE	48	SEE DETAIL SHEETS 2D(18) 2D(19)
			E1-5aP	72"	30"	1	15	15			
			R5-2	48"	48"	1	16	16			
SPECIAL	204"	126"	1	178.5	178.5						
56	4903		SPECIAL	150"	102"	1	106.25	106.25	OVERHEAD SIGN STRUCTURE	49	SEE DETAIL SHEET 2D(19)
57	5004, 5005		SPECIAL	239"	42"	1	69.71	69.71	OVERHEAD SIGN STRUCTURE	51	SEE DETAIL SHEETS 2D(1) 2D(19) SIGN 5005 TO BE INSTALLED OVER DMS
			SPECIAL	204"	144"	1	204	204			
			E1-5aP	72"	30"	1	15	15			
R5-2	48"	48"	1	16	16						
58	5006, 5007		SPECIAL	150"	90"	1	93.75	93.75	OVERHEAD SIGN STRUCTURE	52	SEE DETAIL SHEETS 2D(2) 2D(19)
			SPECIAL	204"	180"	1	255	255			
			E1-5aP	72"	30"	1	15	15			
R5-2	48"	48"	1	16	16						
59	5008		SPECIAL	90"	60"	1	37.5	37.5	SSP-VA-0 W6 X 12 STEEL	NA	2'-6" X 7'-0" FOUNDATION USE BREAKAWAY POST
60	5101		R2-1	48"	60"	1	20	20	SSP-VA-C W4 X 13 STEEL	NA	1'-9" X 4'-6" FOUNDATION USE BREAKAWAY POST
61	5203		SPECIAL	108"	60"	1	45	45	SSP-VA-0 W6 X 12 STEEL	NA	2'-6" X 7'-0" FOUNDATION USE BREAKAWAY POST
62	5204		SPECIAL	78"	48"	1	26	6	SSP-VA-N W6 X 12 STEEL	NA	2'-6" X 6'-0" FOUNDATION USE BREAKAWAY POST

P.H. PLANS

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NOT TO SCALE

PROJECT 0064-121-418

SHEET NO. 2E(7)

PROJECT MANAGER: *Erin Foley, P.E.* (757) 222-1500
SURVEYED BY, DATE: *Rita Associates, Inc.* (757) 306-4260
DESIGN BY: *HDR Engineering, Inc.*
SUBSURFACE UTILITY BY, DATE: *N/A*

SIGN SCHEDULE

TEXT NO.	SIGN ASSEMBLY NO(s).	TEXT	SIGN ASSEMBLY COMPONENTS			SIGN PANEL AREA (sq. ft.)		PROP. SIGN STRUCTURE ST'D.	PROP. SIGN STRUCTURE NUMBER	REMARKS	
			MUTCD ST'D.	PANEL SIZE		QTY.	REF. ASSEMBLY				ALL ASSEMBLIES
				W	H						
63	5205		W13-2	48"	60"	1	20	20	SSP-V-A-C W4 X 13 STEEL	NA	1'-9" X 4'-6" FOUNDATION USE BREAKAWAY POST
64	5207, 5208, 5209, 5210, 5211, 5212	    	SPECIAL SPECIAL SPECIAL SPECIAL SPECIAL R2-1	239" 228" 132" 270" 156" 48" 48"	42" 180" 30" 126" 30" 24" 60"	1 1 1 1 1 1	69.71 285 27.5 236.25 32.5 8 20	69.71 285 27.5 236.25 32.5 8 20	OVERHEAD SIGN STRUCTURE	53	SEE DETAIL SHEETS 2D(1) 2D(17) 2D(18) 2D(20) SIGN 5208 TO BE INSTALLED OVER A-DMS

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	2E(8)
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT				
HDR Engineering, Inc. Virginia Beach, Virginia TRAFFIC ENGINEER				

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDR Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: N/A

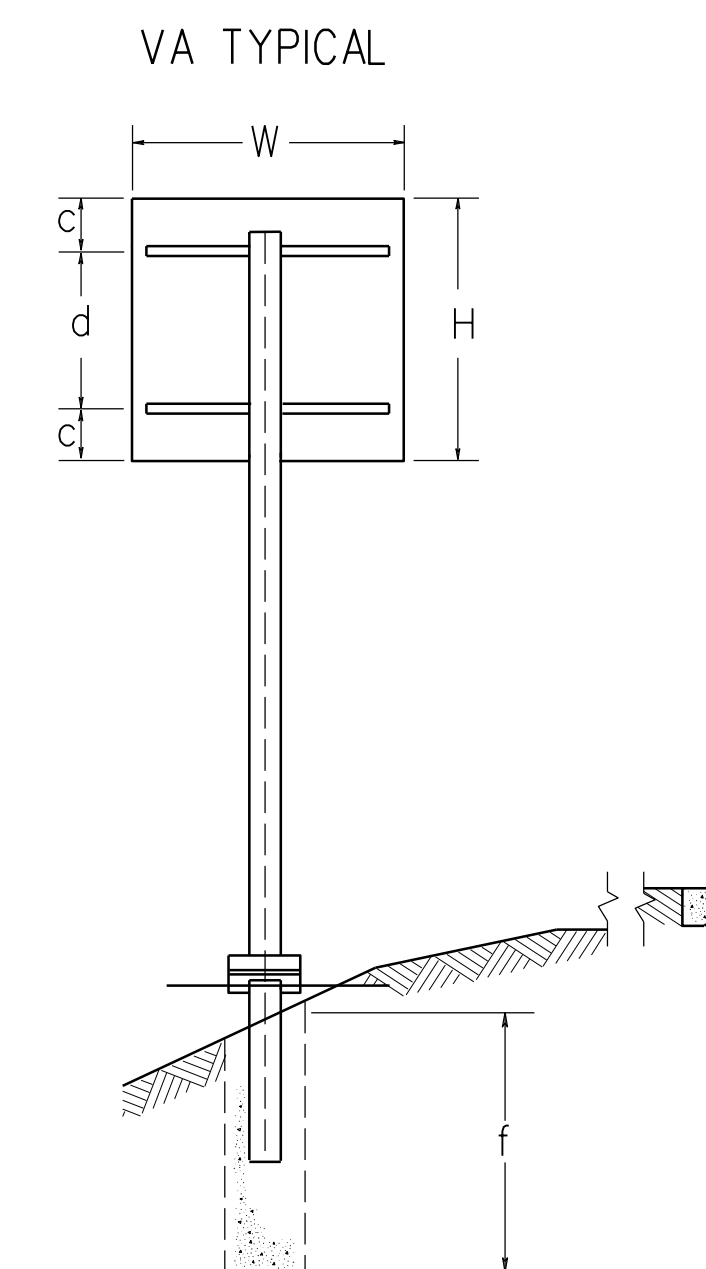
TYPE VA AND VIA SIGN DETAILS

REVISED	STATE	STATE		SHEET NO.
	ROUTE	PROJECT		
	VA.	64	0064-121-418, P101	2F(1)
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT				
HDR Engineering, Inc. Virginia Beach, Virginia TRAFFIC ENGINEER				

TYPICAL DETAILS FOR STANDARD TYPE VA SIGN STRUCTURES

SIGN NUMBER	SIGN STRUCTURE TYPE	SIGN PANEL DIMENSIONS				SPD-4 SIGN PANEL ATTACHMENT DETAILS			POST LENGTH SLOPE 3:1 TO 2:1	SIGN POST	FOUNDATION DIMENSIONS		WELDED WIRE MESH		STEEL BASE PLATE
		W	H	c	d	CLAMP	f	DIA.			LENGTH	SQ. FT.	T (THICKNESS)		
		TEE 6061-T6 2.5 X 3.0 @ 1.175 lb/ft													
1802	C	4'-0"	5'-0"	1'-3"	2'-6"										
2102	B	4'-0"	4'-0"	1'-2"	1'-8"										
2906	C	4'-0"	5'-0"	1'-3"	2'-6"										
4607	B	4'-0"	4'-0"	1'-2"	1'-8"										
5008	O	7'-6"	5'-0"	1'-3"	2'-6"										
5101	C	4'-0"	5'-0"	1'-3"	2'-6"										
5202	O	9'-0"	5'-0"	1'-3"	2'-6"										
5204	N	6'-6"	4'-0"	1'-2"	1'-8"										
5205	C	4'-0"	5'-0"	1'-3"	2'-6"										
5301	B	4'-0"	4'-0"	1'-2"	1'-8"										

2020 ROAD AND BRIDGE STANDARDS, SPD-4, VOLUME 11



NOTES FOR TYPE VA SIGN STRUCTURES:

1. FOR MOUNTING HEIGHT, LATERAL ADJUSTMENTS, AND MAXIMUM PROJECTION OF STUB POLE, REFERENCE STD SSP-VIA AND SSP-VA
2. POLE LENGTHS SHOWN ON PLANS ARE BASED ON GIS INFORMATION. ALL POLE LENGTHS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION.
3. VERTICAL SPACING SHALL BE AS NOTED IN SECTION 701

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: N/A

TYPE VA AND VIA SIGN DETAILS

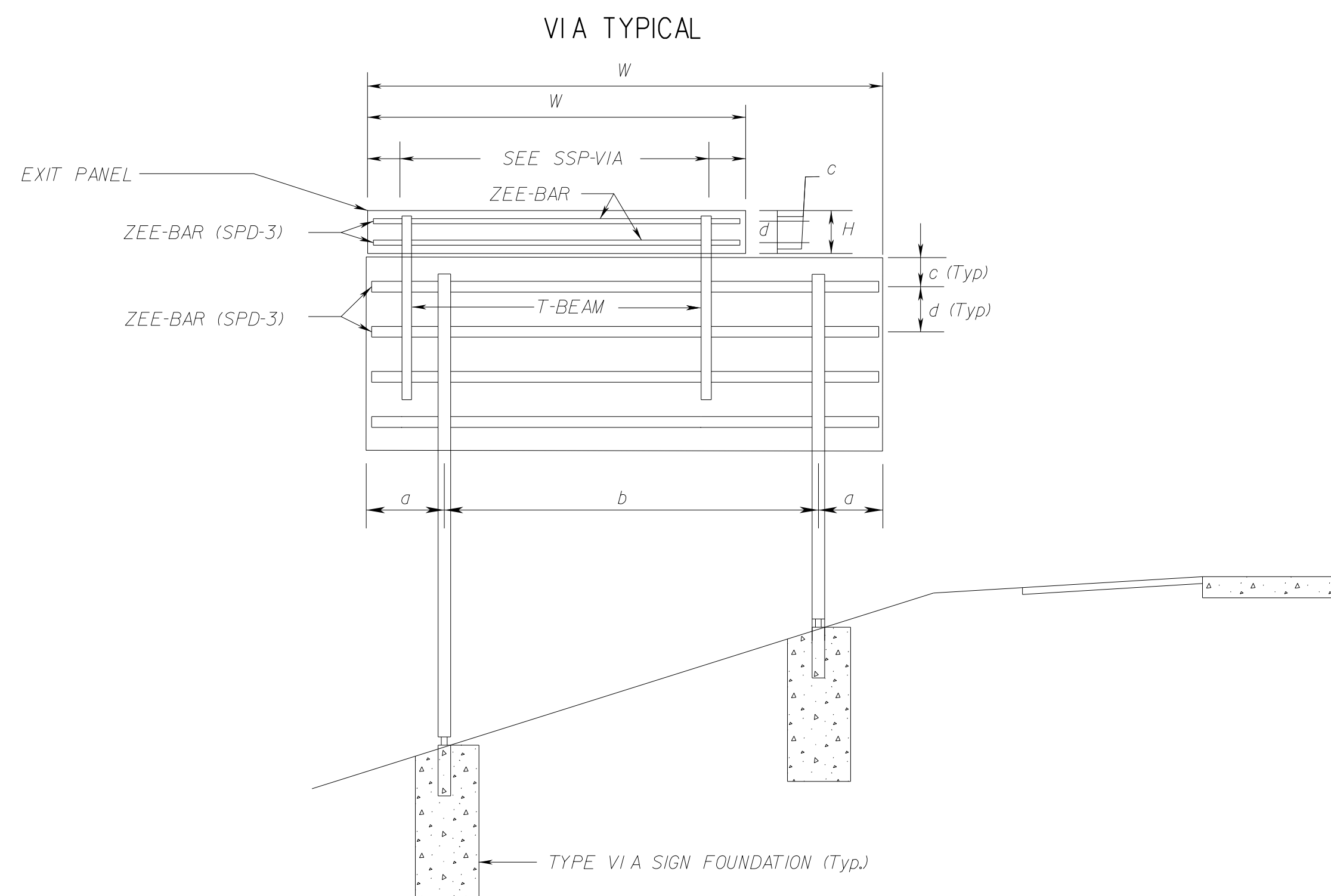
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	2F(2)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER

TYPE VIA SIGN STRUCTURE DETAILS

SIGN NUMBER	SIGN STRUCTURE TYPE VIA	SIGN PANEL DIMENSIONS		TYPICAL SIGN PANEL ATTACHMENT DETAILS												SUPPORT																					
		W _p	H _p	g ₁	b ₁	c ₁	d ₁	ZEE NO.	ZEE SIZE	TEE NO.	CLAMPS NO.	POST SHAPE	POST LENGTH			ANCHOR BOLTS		BASE CONNECTION DATA TABLE							FUSE AND HINGE PLATE DATA TABLE					BOLT KEEPER PLATE DATA TABLE							
													NO. 1	NO. 2	NO. 3	DIA.	TORQUE IN.-LBS.	A	B	C	D	E	+1	+2	W	R	BOLT DIA.	a	b	c	d	g	g/2	BOLT DIA.	A	B	C
701	AU MOD.	11'-6"	14'-6"	1'-9"	8'-0"	18"	3'-10"	1	B	3	12	W18X40	17'-6"	17'-6"	---	1 1/8"	2540	2020 ROAD AND BRIDGE STANDARDS, SPD-3, VOLUME 11							2020 ROAD AND BRIDGE STANDARDS, SPD-3, VOLUME 11												
901	AU MOD.	11'-6"	14'-6"	1'-9"	8'-0"	18"	3'-10"	1	B	3	12	W18X40	17'-6"	17'-6"	---	1 1/8"	2540	2020 ROAD AND BRIDGE STANDARDS, SPD-3, VOLUME 11							2020 ROAD AND BRIDGE STANDARDS, SPD-3, VOLUME 11												
1101	S MOD.	11'-0"	7'-6"	1'-6"	8'-0"	12"	2'-9"	1	B	2	8	W12X16	17'-4"	20'-8"	---	5/8"	600	2020 ROAD AND BRIDGE STANDARDS, SPD-3, VOLUME 11							2020 ROAD AND BRIDGE STANDARDS, SPD-3, VOLUME 11												
1801	AU MOD.	11'-6"	14'-6"	1'-9"	8'-0"	18"	3'-10"	1	B	3	12	W18X40	17'-6"	17'-6"	---	1 1/8"	2540	2020 ROAD AND BRIDGE STANDARDS, SPD-3, VOLUME 11							2020 ROAD AND BRIDGE STANDARDS, SPD-3, VOLUME 11												
1806	AU MOD.	11'-6"	14'-6"	1'-9"	8'-0"	18"	3'-10"	1	B	3	12	W18X40	17'-6"	17'-6"	---	1 1/8"	2540	2020 ROAD AND BRIDGE STANDARDS, SPD-3, VOLUME 11							2020 ROAD AND BRIDGE STANDARDS, SPD-3, VOLUME 11												
3001	G MOD.	14'-0"	4'-0"	3'-0"	8'-0"	14"	1'-8"	2	B	0	0	W2X16	17'-6"	17'-6"	---	5/8"	600	2020 ROAD AND BRIDGE STANDARDS, SPD-3, VOLUME 11							2020 ROAD AND BRIDGE STANDARDS, SPD-3, VOLUME 11												
3005	AU MOD.	11'-6"	14'-6"	1'-9"	8'-0"	18"	3'-10"	1	B	3	12	W18X40	17'-6"	17'-6"	---	1 1/8"	2540	2020 ROAD AND BRIDGE STANDARDS, SPD-3, VOLUME 11							2020 ROAD AND BRIDGE STANDARDS, SPD-3, VOLUME 11												
3103	AU MOD.	11'-6"	14'-6"	1'-9"	8'-0"	18"	3'-10"	1	B	3	12	W18X40	17'-6"	17'-6"	---	1 1/8"	2540	2020 ROAD AND BRIDGE STANDARDS, SPD-3, VOLUME 11							2020 ROAD AND BRIDGE STANDARDS, SPD-3, VOLUME 11												
3207	AU MOD.	11'-6"	14'-6"	1'-9"	8'-0"	18"	3'-10"	1	B	3	12	W18X40	17'-6"	17'-6"	---	1 1/8"	2540	2020 ROAD AND BRIDGE STANDARDS, SPD-3, VOLUME 11							2020 ROAD AND BRIDGE STANDARDS, SPD-3, VOLUME 11												
3301	AU MOD.	11'-6"	14'-6"	1'-9"	8'-0"	18"	3'-10"	1	B	3	12	W18X40	17'-6"	17'-6"	---	1 1/8"	2540	2020 ROAD AND BRIDGE STANDARDS, SPD-3, VOLUME 11							2020 ROAD AND BRIDGE STANDARDS, SPD-3, VOLUME 11												
3502	S MOD.	12'-6"	6'-6"	2'-3"	8'-0"	12"	2'-3"	1	B	2	8	W12X16	17'-6"	17'-6"	---	5/8"	600	2020 ROAD AND BRIDGE STANDARDS, SPD-3, VOLUME 11							2020 ROAD AND BRIDGE STANDARDS, SPD-3, VOLUME 11												
4505	AU MOD.	11'-6"	14'-6"	1'-9"	8'-0"	18"	3'-10"	1	B	3	12	W18X40	17'-6"	17'-6"	---	1 1/8"	2540	2020 ROAD AND BRIDGE STANDARDS, SPD-3, VOLUME 11							2020 ROAD AND BRIDGE STANDARDS, SPD-3, VOLUME 11												
4606	AU MOD.	11'-6"	14'-6"	1'-9"	8'-0"	18"	3'-10"	1	B	3	12	W18X40	17'-6"	17'-6"	---	1 1/8"	2540	2020 ROAD AND BRIDGE STANDARDS, SPD-3, VOLUME 11							2020 ROAD AND BRIDGE STANDARDS, SPD-3, VOLUME 11												
4701	AU MOD.	11'-6"	14'-6"	1'-9"	8'-0"	18"	3'-10"	1	B	3	12	W18X40	17'-6"	17'-6"	---	1 1/8"	2540	2020 ROAD AND BRIDGE STANDARDS, SPD-3, VOLUME 11							2020 ROAD AND BRIDGE STANDARDS, SPD-3, VOLUME 11												
4811	AU MOD.	11'-6"	14'-6"	1'-9"	8'-0"	18"	3'-10"	1	B	3	12	W18X40	17'-6"	17'-6"	---	1 1/8"	2540	2020 ROAD AND BRIDGE STANDARDS, SPD-3, VOLUME 11							2020 ROAD AND BRIDGE STANDARDS, SPD-3, VOLUME 11												
5003	AU MOD.	11'-6"	14'-6"	1'-9"	8'-0"	18"	3'-10"	1	B	3	12	W18X40	17'-6"	17'-6"	---	1 1/8"	2540	2020 ROAD AND BRIDGE STANDARDS, SPD-3, VOLUME 11							2020 ROAD AND BRIDGE STANDARDS, SPD-3, VOLUME 11												
5202	AU MOD.	11'-6"	14'-6"	1'-9"	8'-0"	18"	3'-10"	1	B	3	2	W18X40	17'-6"	17'-6"	---	1 1/8"	2540	2020 ROAD AND BRIDGE STANDARDS, SPD-3, VOLUME 11							2020 ROAD AND BRIDGE STANDARDS, SPD-3, VOLUME 11												



NOTES FOR TYPE VIA SIGN STRUCTURES:

1. FOR MOUNTING HEIGHT, LATERAL ADJUSTMENTS, AND MAXIMUM PROJECTION OF STUB POLE, REFERENCE STD SSP-VIA AND SSP-VA
2. POLE LENGTHS SHOWN ON PLANS ARE BASED ON GIS INFORMATION. ALL POLE LENGTHS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION.
3. VERTICAL SPACING SHALL BE AS NOTED IN SECTION 701

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

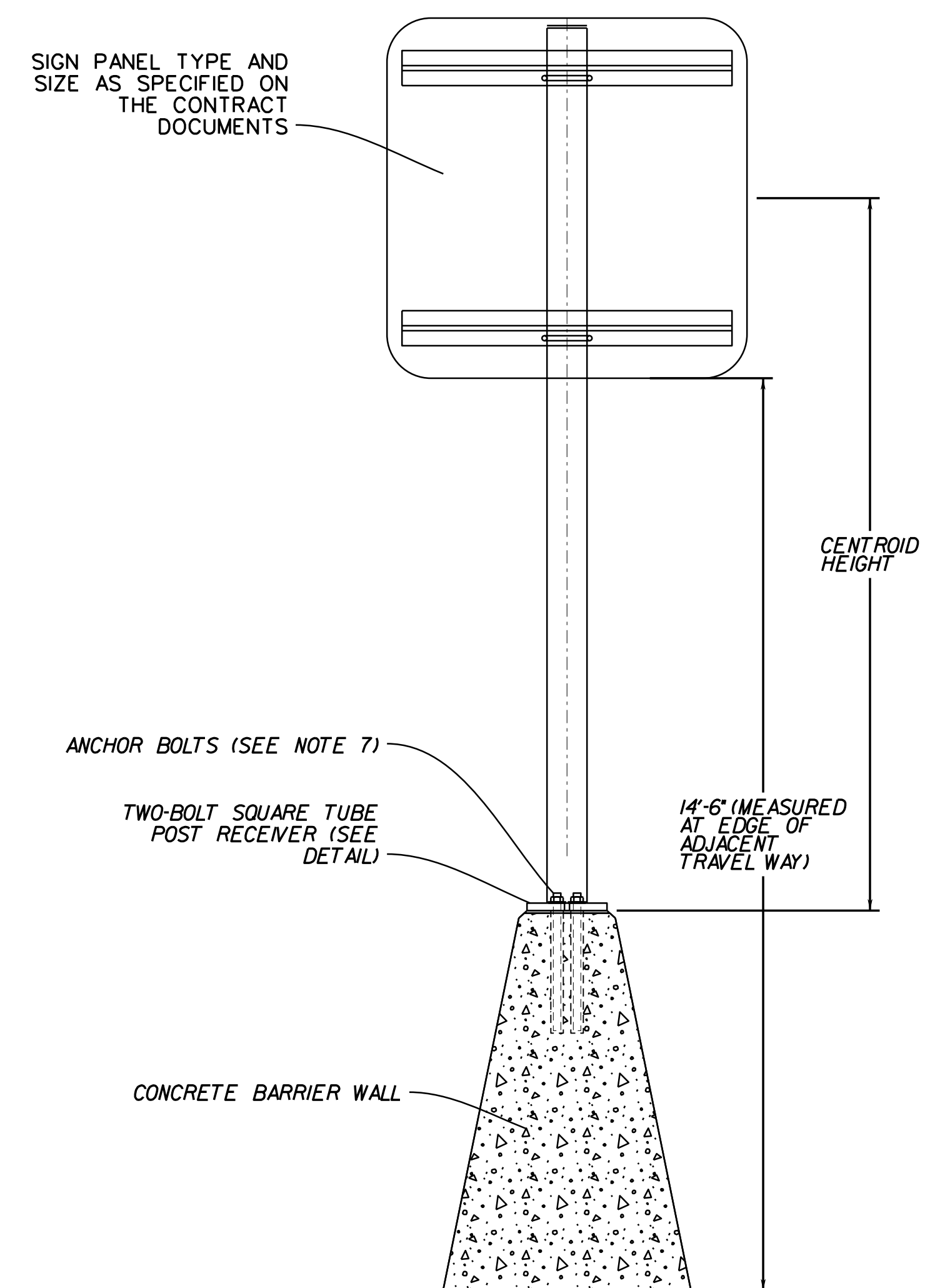
PROJECT MANAGER: Erin Foley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDR Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: N/A

MEDIAN BARRIER MOUNTED SIGN DETAILS

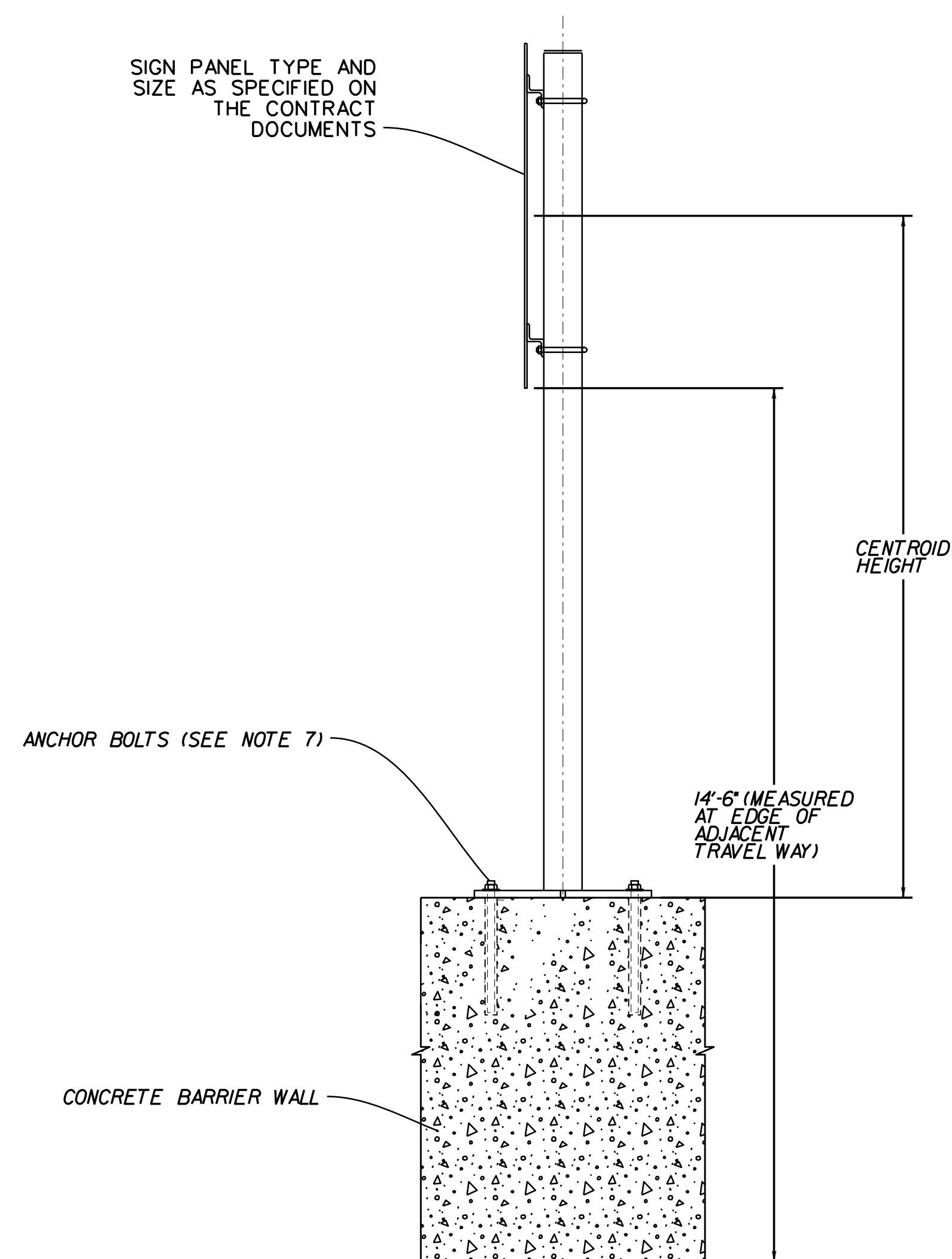
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	2G

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER



ELEVATION VIEW
PARALLEL TO DIRECTION OF TRAFFIC



ELEVATION VIEW
PERPENDICULAR TO DIRECTION OF TRAFFIC

GENERAL NOTES

SPECIFICATIONS

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, 6th Edition, 2013 with 2015 Interims and VDOT Guidelines (IIM-S&B-76.3 & IIM-S&B-90.2)

Loading: Wind Speed = 90 MPH based on 25 year mean recurrence Interval per VDOT IIM-S&B-90.2 Appendix A

Anchor bolts shall be cast-in-place or cast-in-place threaded inserts shall be used. Other proprietary cast-in-place anchorage systems may be acceptable pending VDOT approval.

Signs shall be mounted such that the bottom edge of sign is 14'-6" above the roadway

Sign supports shall not be designed with break-away type base

Sign material shall contain polyethylene core with aluminum faces (no greater than 0.012") faceted to each side of the core. Sign manufacturer must be approved by VDOT prior to installation

Sign support structures shall be designed by a Professional Engineer registered in the Commonwealth of Virginia. Sealed plans and calculations for each sign support structure shall be submitted to VDOT for review and acceptance prior to commencement of fabrication and installation

Notify the Engineer if spalling or cracking is within 3 feet of the installation, and do not install the bracket until an alternate location is determined or the barrier wall is repaired.

Station	Barrier Type	f'c (psi)	Distance from Ground to Centroid of Sign Panel Area
WB 1826+99	xxxx	3,000	18'-0"

P.H. PLANS

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NOT TO SCALE

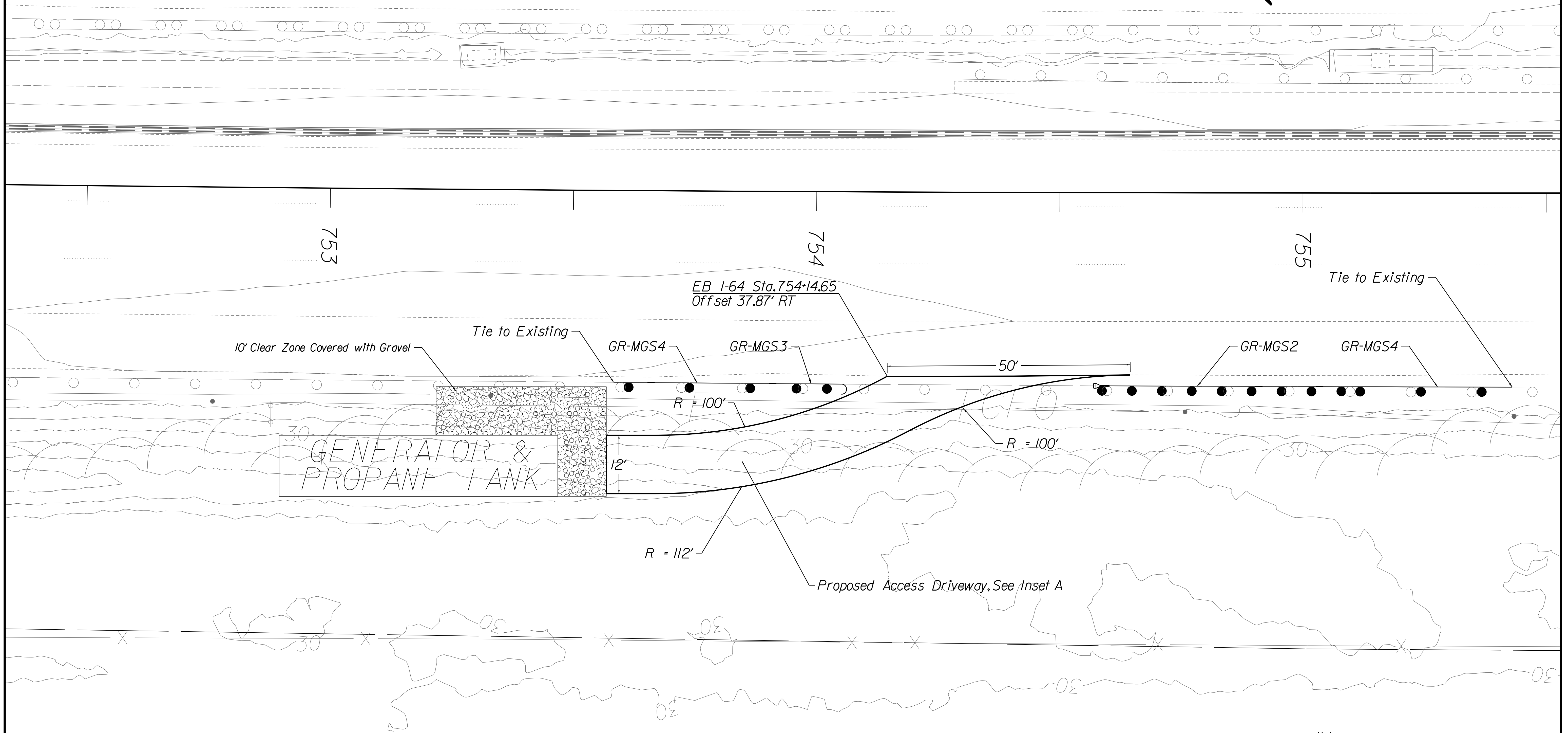
PROJECT
0064-121-418

SHEET NO.
2G

PROJECT MANAGER: Erin Eoley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDB, Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: N/A

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	64		0064-121-418, P101	2W(1)

ACCESS DRIVE GRADING DETAIL



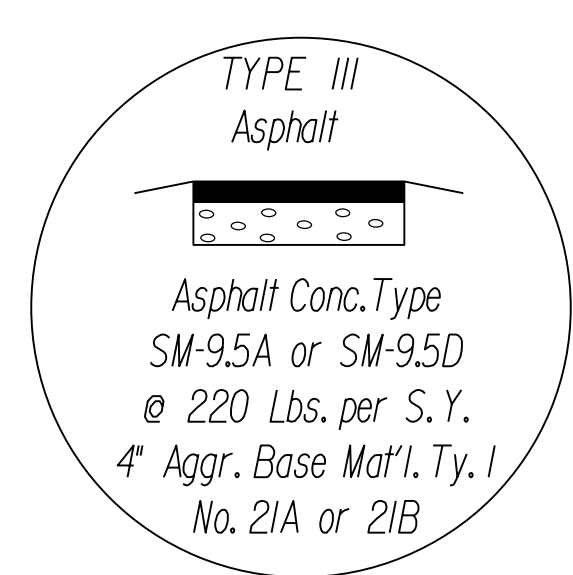
Note:
For Layout Only
Proposed Grading and Drainage will be shown
in future submittal once driveway locations are
finalized.

P.H. PLANS

THESE PLANS ARE UNFINISHED
AND UNAPPROVED AND ARE NOT
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ACQUISITION OF RIGHT OF WAY.

SCALE 0 10' 20'	PROJECT 0064-121-418	SHEET NO. 2W(1)
--------------------	-------------------------	--------------------

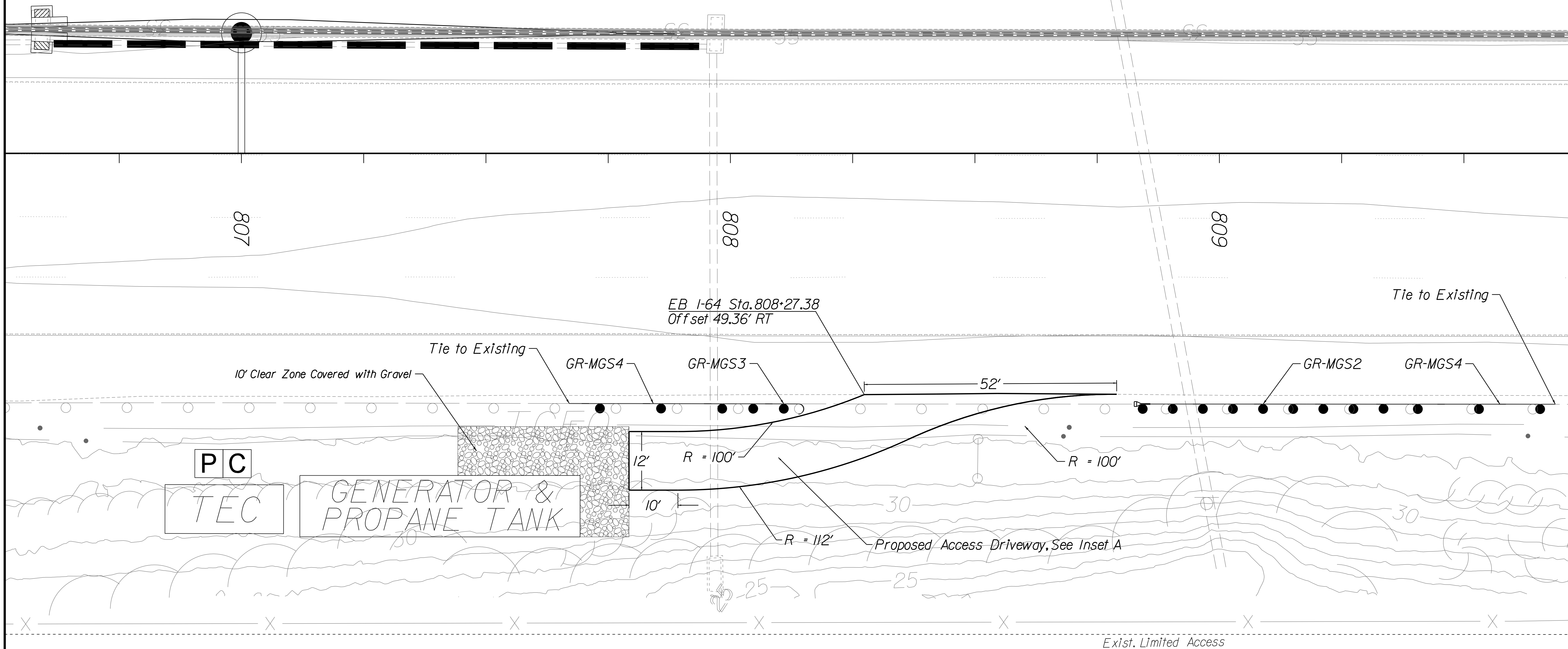
INSET A



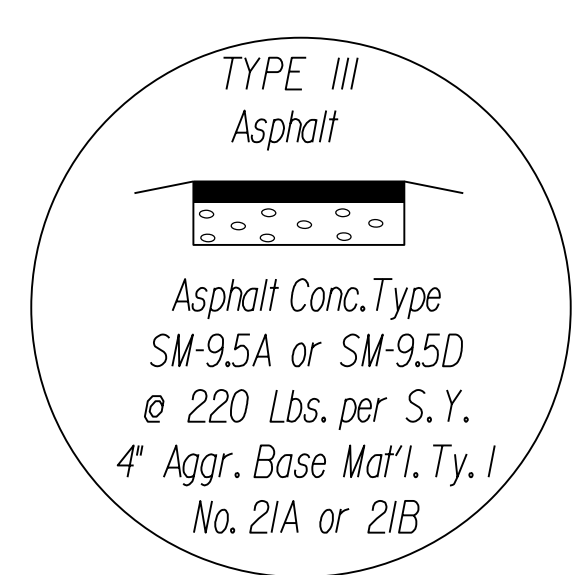
PROJECT MANAGER: Erin Foley, P.E. (757) 222-1500
 SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
 DESIGN BY: HDR, Engineering, Inc.
 SUBSURFACE UTILITY BY, DATE: N/A

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	2W(2)

ACCESS DRIVE GRADING DETAIL



INSET A



Exist. R/W per 0064-121-101, c-505

Note:
 For Layout Only
 Proposed Grading and Drainage will be shown in future submittal once driveway locations are finalized.

P.H. PLANS

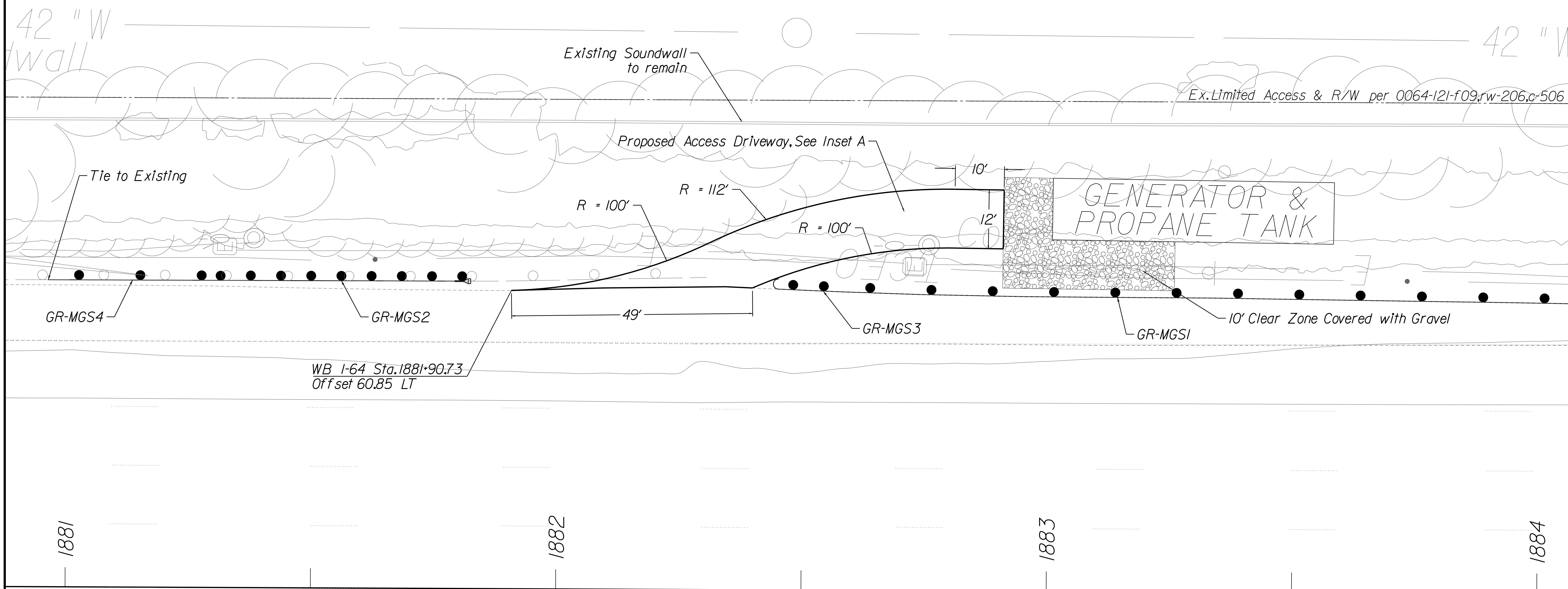
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDB, Engineer Inc.
SUBSURFACE UTILITY BY, DATE: N/A

ACCESS DRIVE GRADING DETAIL

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	2W(3)

Ex. 30' Permanent Water Line Easement Proj. 0064-121-F09, RW-206, C-506



INSET A

TYPE III
Asphalt

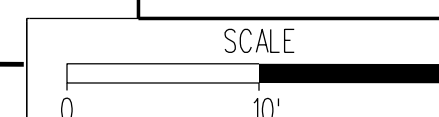


Asphalt Conc. Type
SM-9.5A or SM-9.5D
@ 220 Lbs. per S.Y.
4" Aggr. Base Mat'l. Ty. I
No. 21A or 21B

Note:
For Layout Only
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finalized.

P.H. PLANS

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ACQUISITION OF RIGHT OF WAY.



PROJECT
0064-121-418

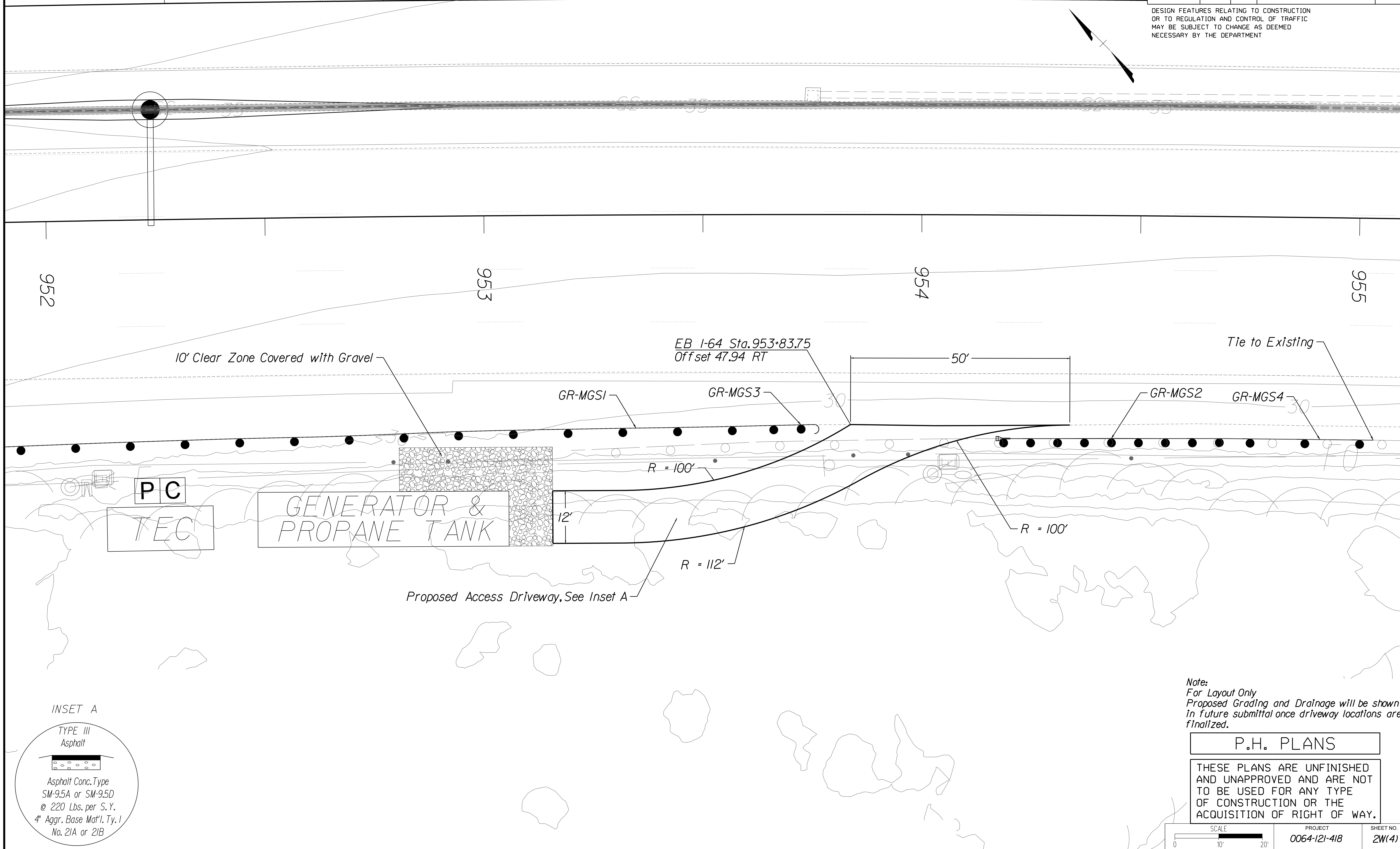
SHEET NO.
2W(3)

PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDB, Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: N/A

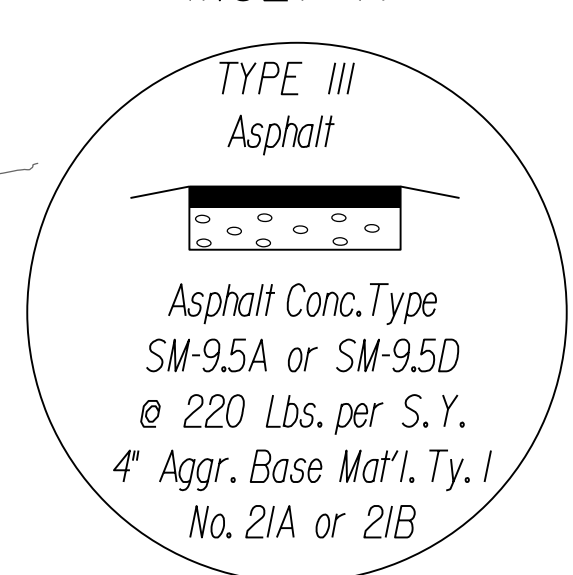
ACCESS DRIVE GRADING DETAIL

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	2W(4)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



INSET A



Note:
For Layout Only
Proposed Grading and Drainage will be shown in future submittal once driveway locations are finalized.

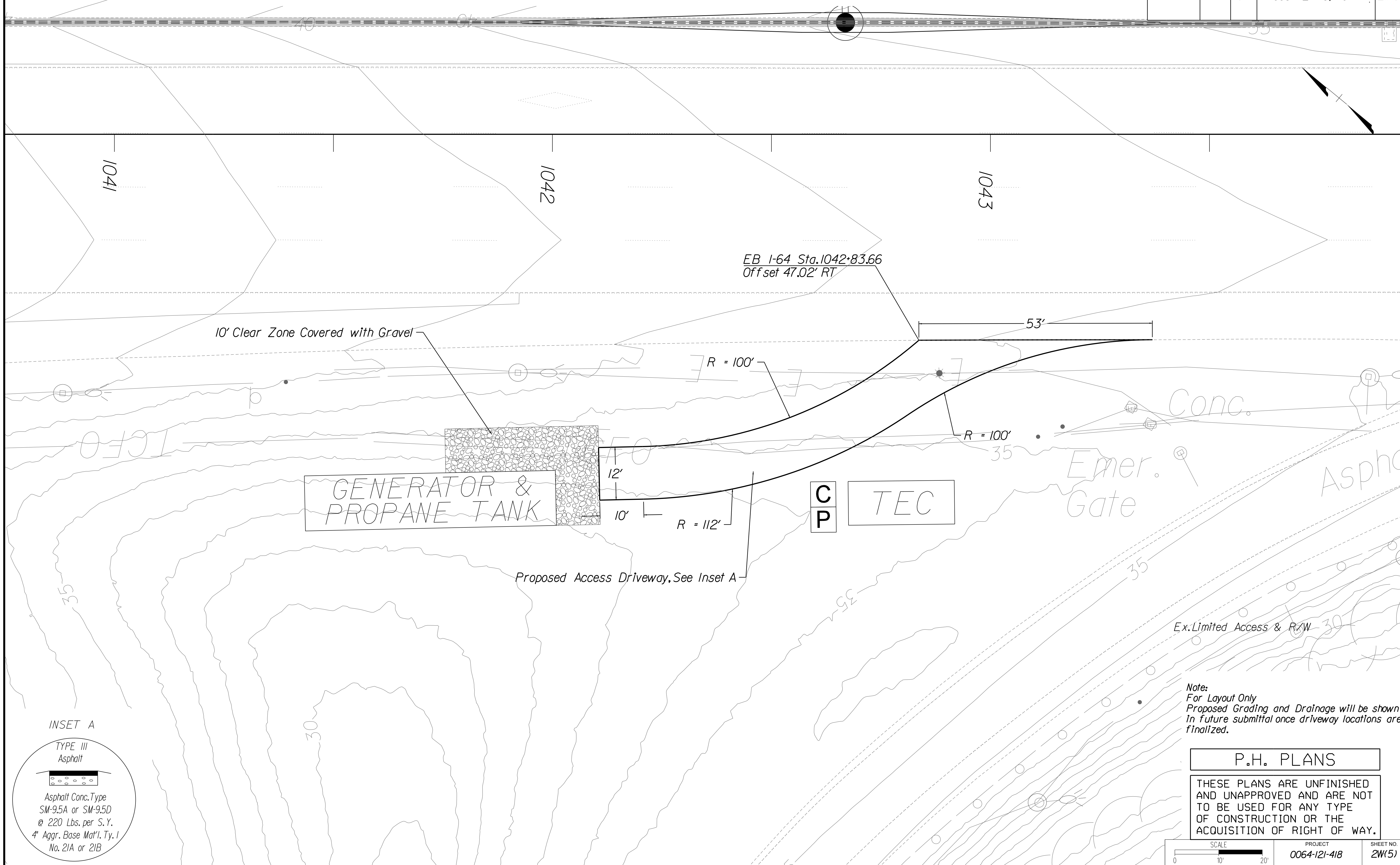
P.H. PLANS

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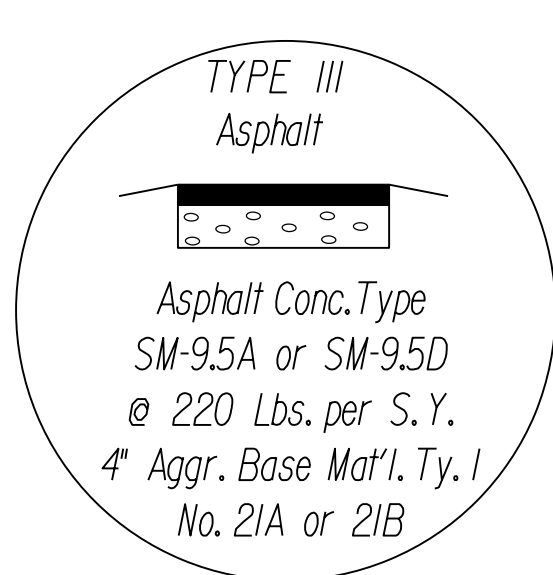
PROJECT MANAGER: Erin Eoley, P.E. (757) 222-1500
 SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
 DESIGN BY: HDB, Engineering, Inc.
 SUBSURFACE UTILITY BY, DATE: N/A

ACCESS DRIVE GRADING DETAIL

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	2W(5)



INSET A



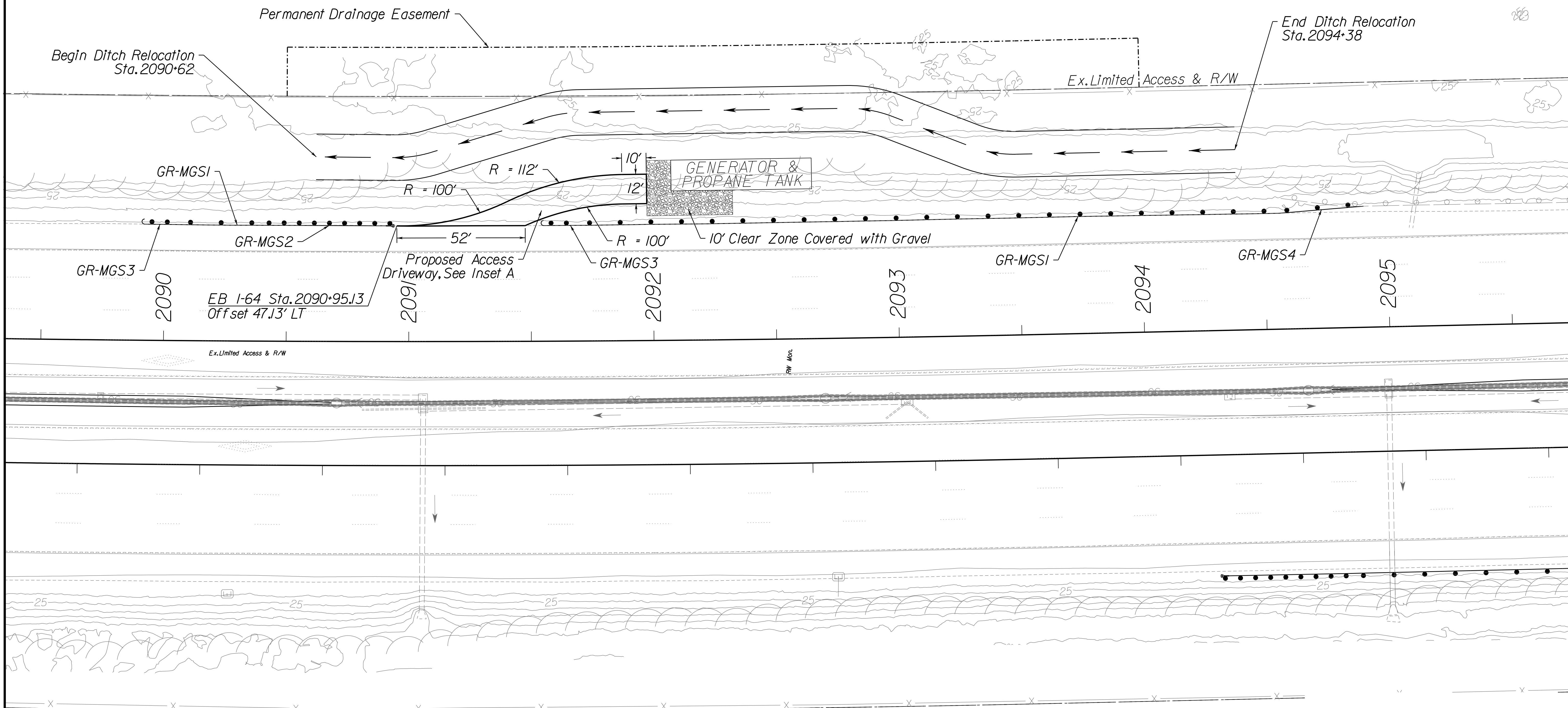
Note:
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P.H. PLANS
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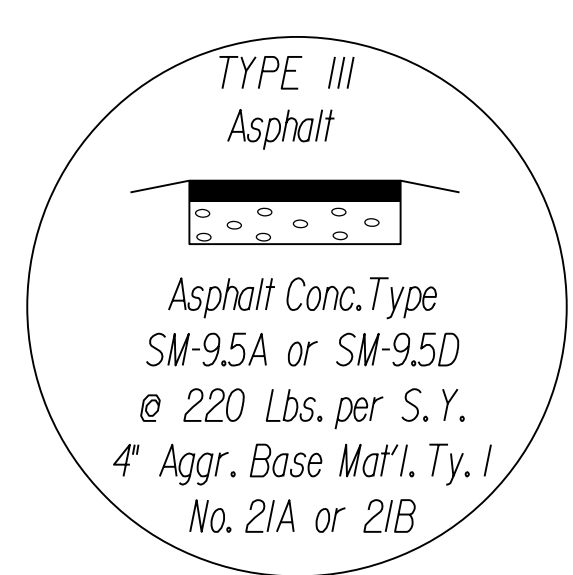
PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDB, Engineer Inc.
SUBSURFACE UTILITY BY, DATE: N/A

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	2W(6)

ACCESS DRIVE GRADING DETAIL



INSET A



Metal Sign

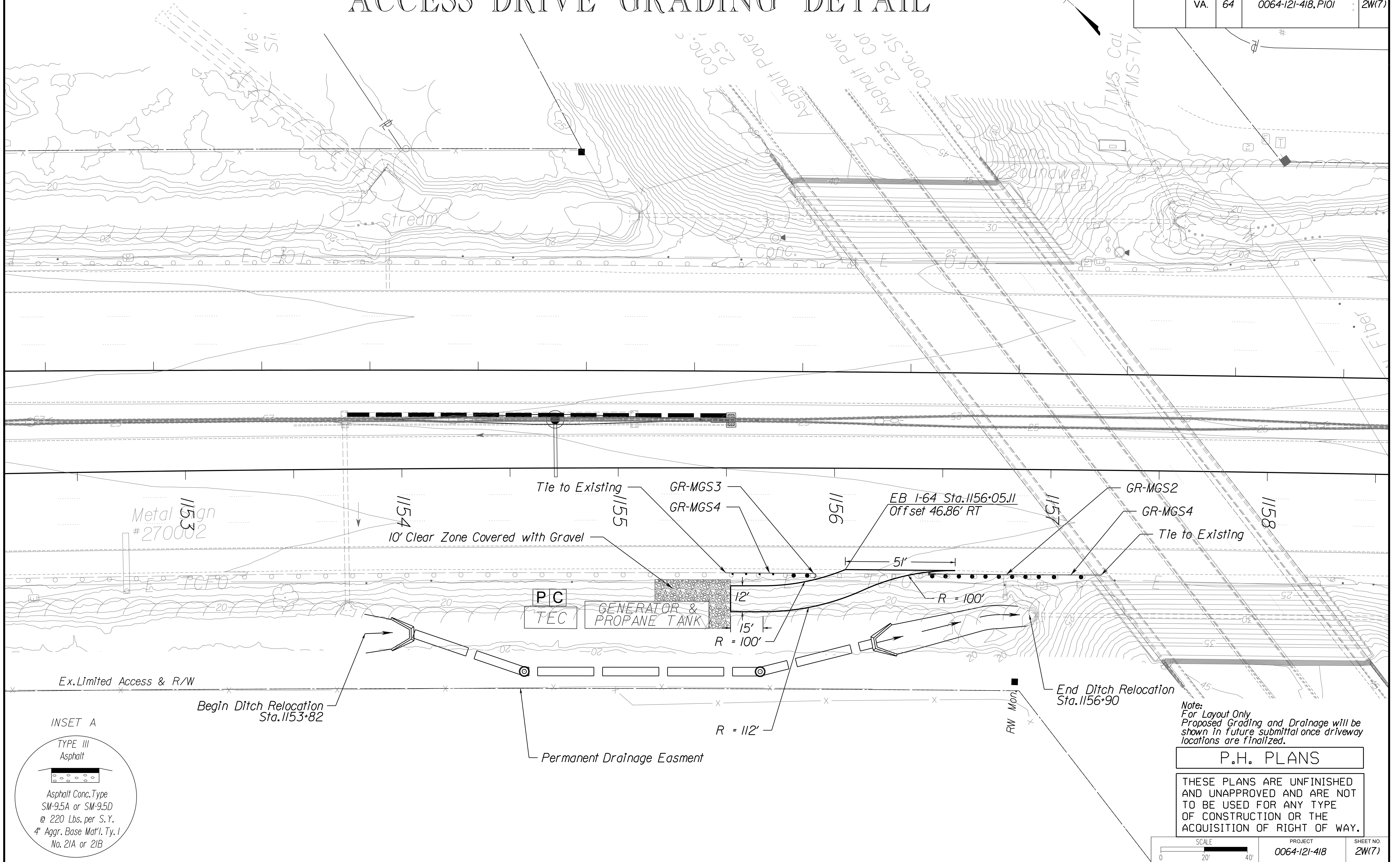
Note:
For Layout Only
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P.H. PLANS
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PROJECT MANAGER: Erin Eoley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineer Inc.
SUBSURFACE UTILITY BY, DATE: N/A

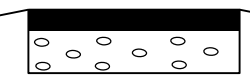
ACCESS DRIVE GRADING DETAIL

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	2W(7)



INSET A

TYPE III
Asphalt



Asphalt Conc. Type
SM-9.5A or SM-9.5D
@ 220 Lbs. per S.Y.
4" Aggr. Base Mat'l. Ty. I
No. 21A or 21B

Note:
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locations are finalized.

P.H. PLANS

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AND UNAPPROVED AND ARE NOT
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ACQUISITION OF RIGHT OF WAY.

SCALE
0 20 40'

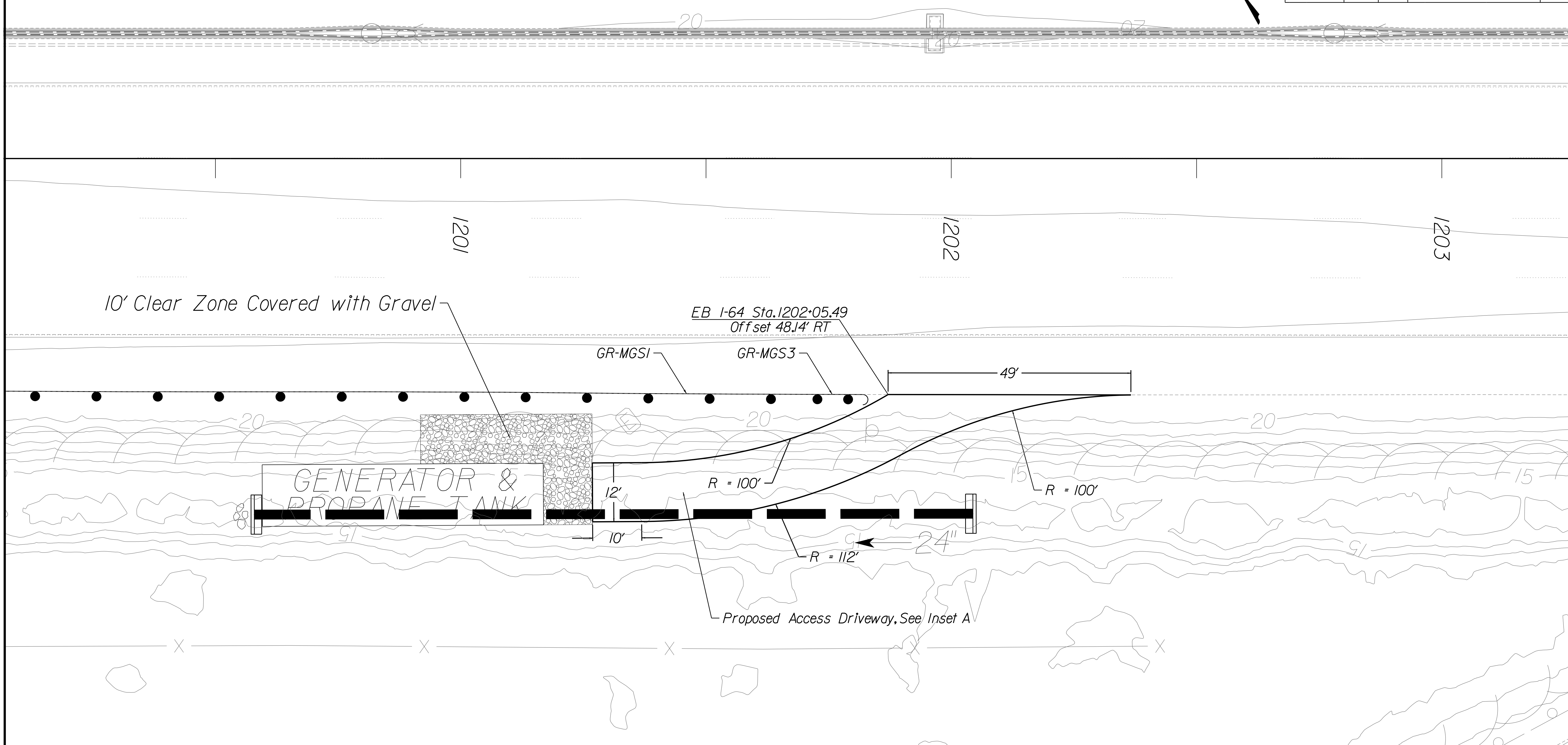
PROJECT
0064-121-418

SHEET NO.
2W(7)

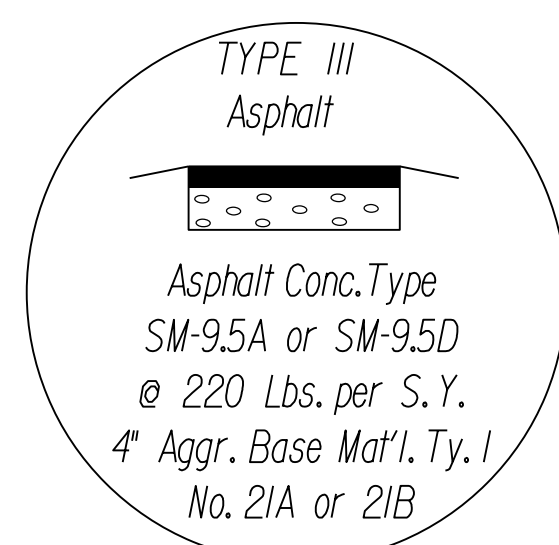
PROJECT MANAGER: Erin Foley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDB, Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: N/A

ACCESS DRIVE GRADING DETAIL

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	2W(8)



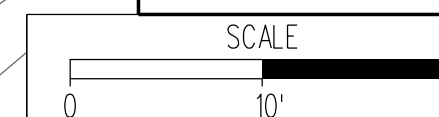
INSET A



Note:
For Layout Only
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P.H. PLANS

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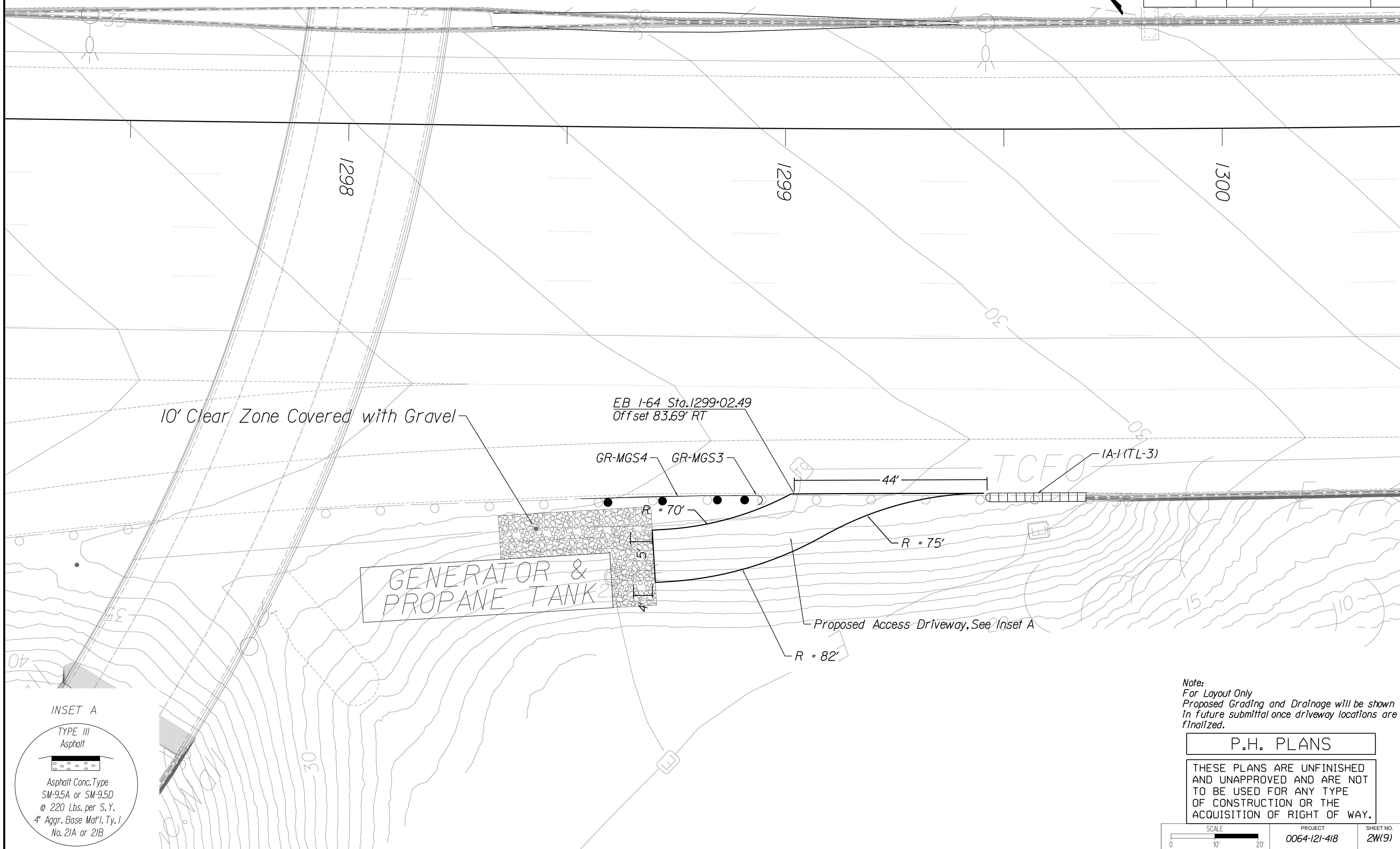
PROJECT
0064-121-418

SHEET NO.
2W(8)

PROJECT MANAGER: Erin Eoley, P.E. (757) 222-1500
 SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
 DESIGN BY: HDB, Engineering, Inc.
 SUBSURFACE UTILITY BY, DATE: N/A

ACCESS DRIVE GRADING DETAIL

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	2W(9)



INSET A

TYPE III Asphalt

Asphalt Conc. Type SM-9.5A or SM-9.5D @ 220 Lbs. per S.Y.
 4" Aggr. Base Mat'l. Ty. I No. 21A or 21B

Note:
 For Layout Only
 Proposed Grading and Drainage will be shown in future submittal once driveway locations are finalized.

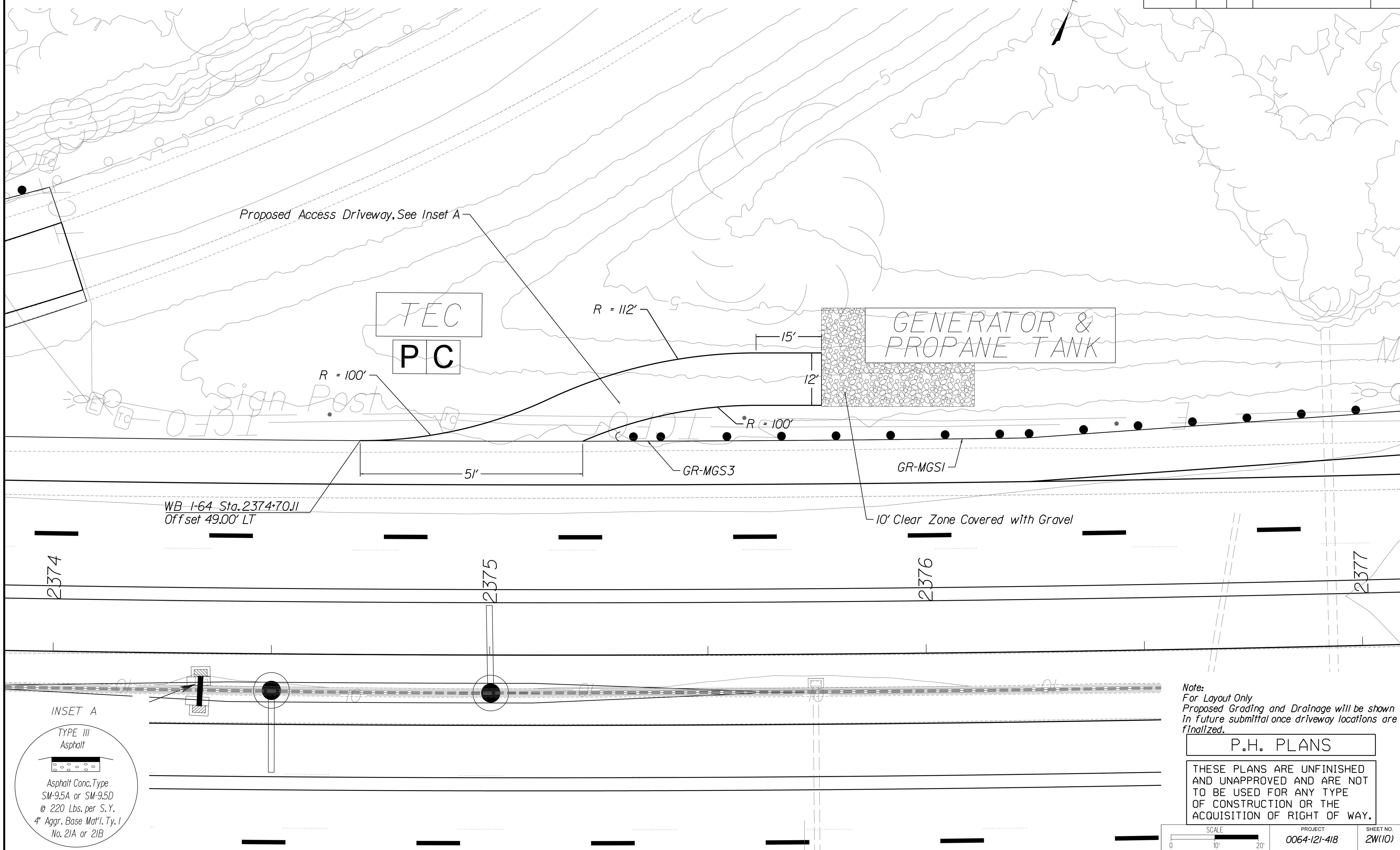
P.H. PLANS

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PROJECT MANAGER: Erin Eoley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineer/Ingr, Inc.
SUBSURFACE UTILITY BY, DATE: N/A

ACCESS DRIVE GRADING DETAIL

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	2W(10)



INSET A

TYPE III
Asphalt

Asphalt Conc. Type
SM-9.5A or SM-9.5D
@ 220 Lbs. per S.Y.
4" Aggr. Base Mat'l. Ty. I
No. 21A or 21B

Note:
For Layout Only
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P.H. PLANS

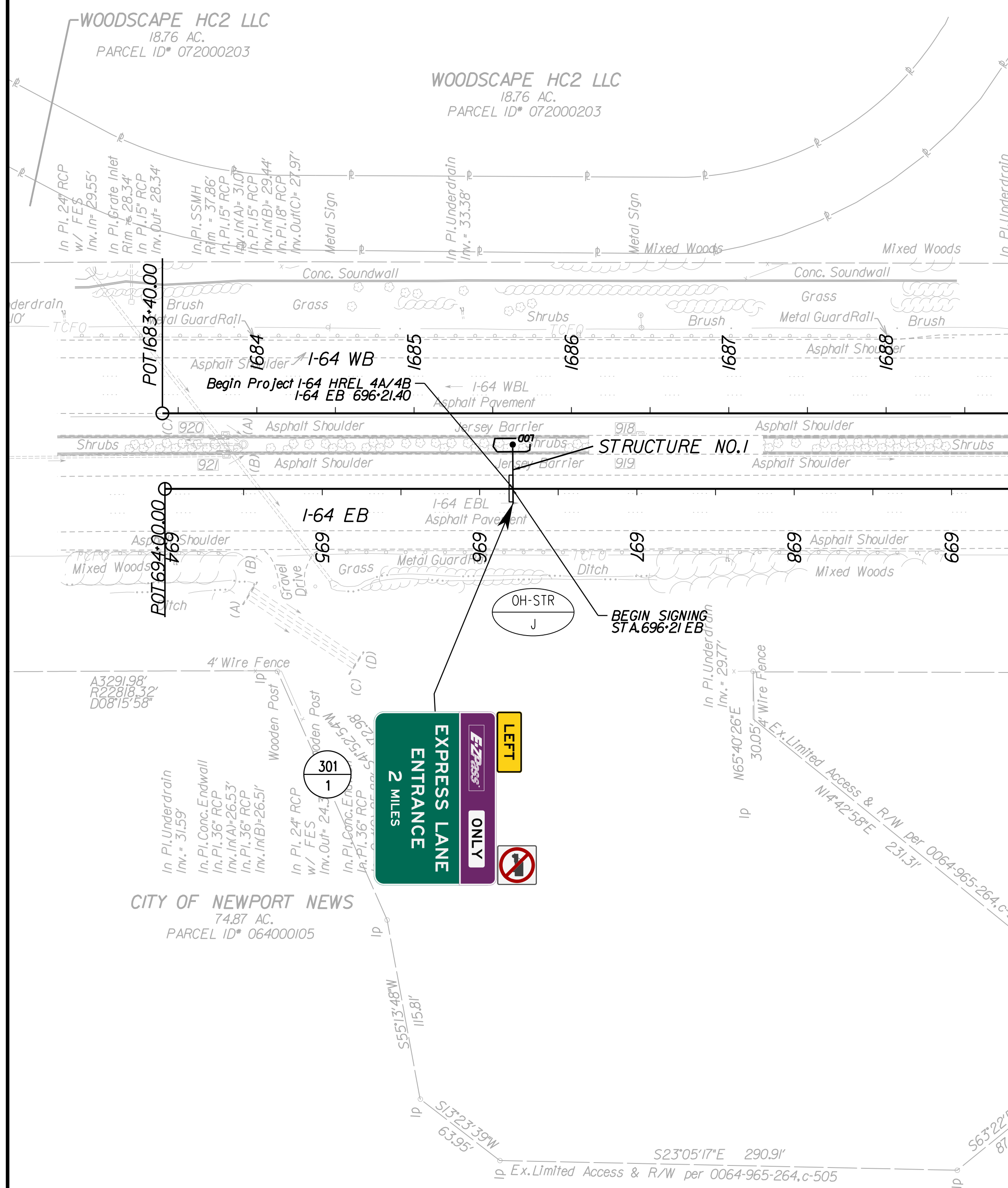
THESE PLANS ARE UNFINISHED
AND UNAPPROVED AND ARE NOT
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ACQUISITION OF RIGHT OF WAY.

PROJECT MANAGER: Erin Eoley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineer Inc.
SUBSURFACE UTILITY BY, DATE: MZA

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	3

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER



Matchline Sta. 708+00 See Sheet 4

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

E&S Control Plan ITS & Tolling 3C 54(3)

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

SCALE 0 50 100'	PROJECT 0064-121-418	SHEET NO. 3
--------------------	-------------------------	----------------

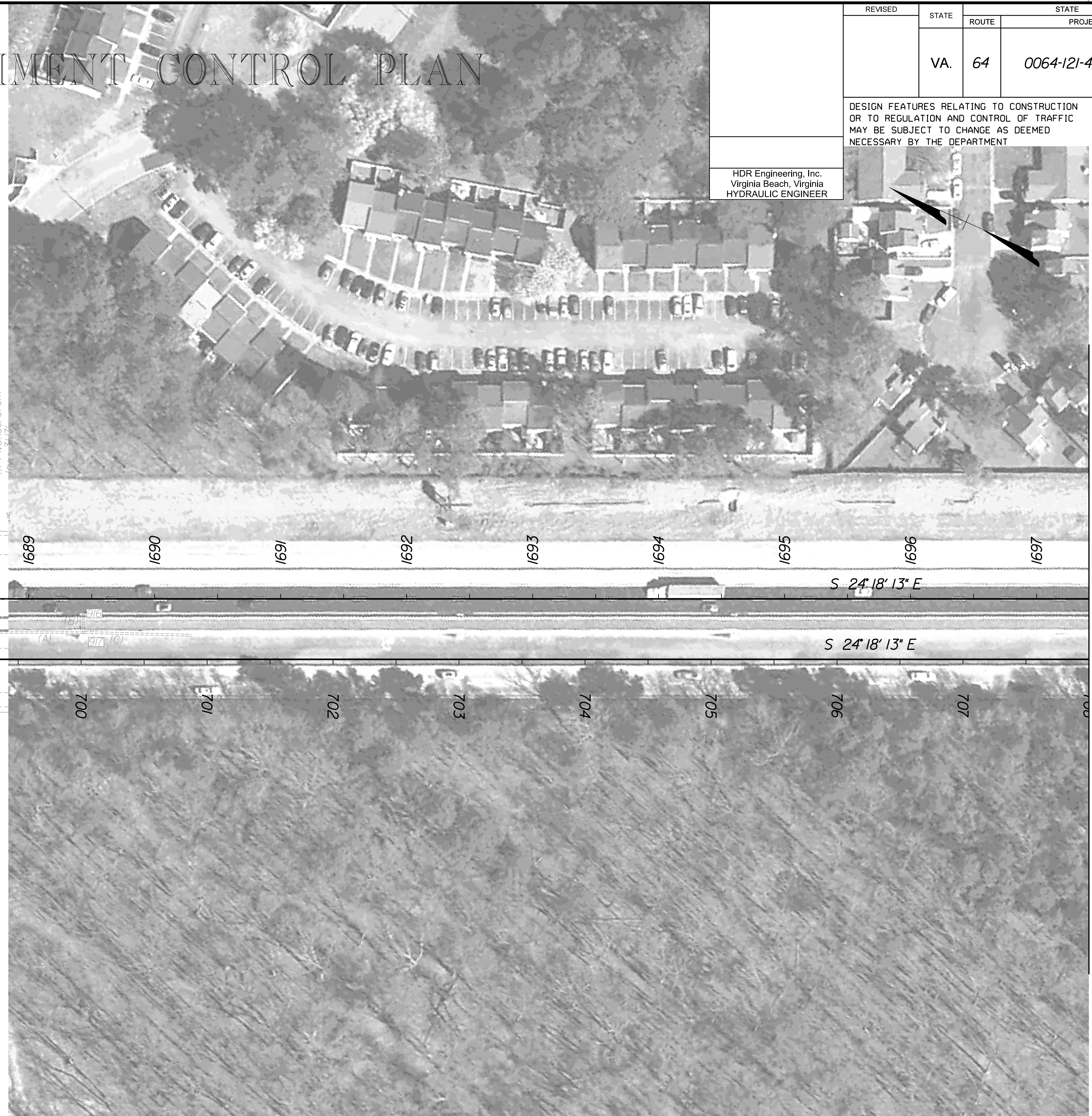
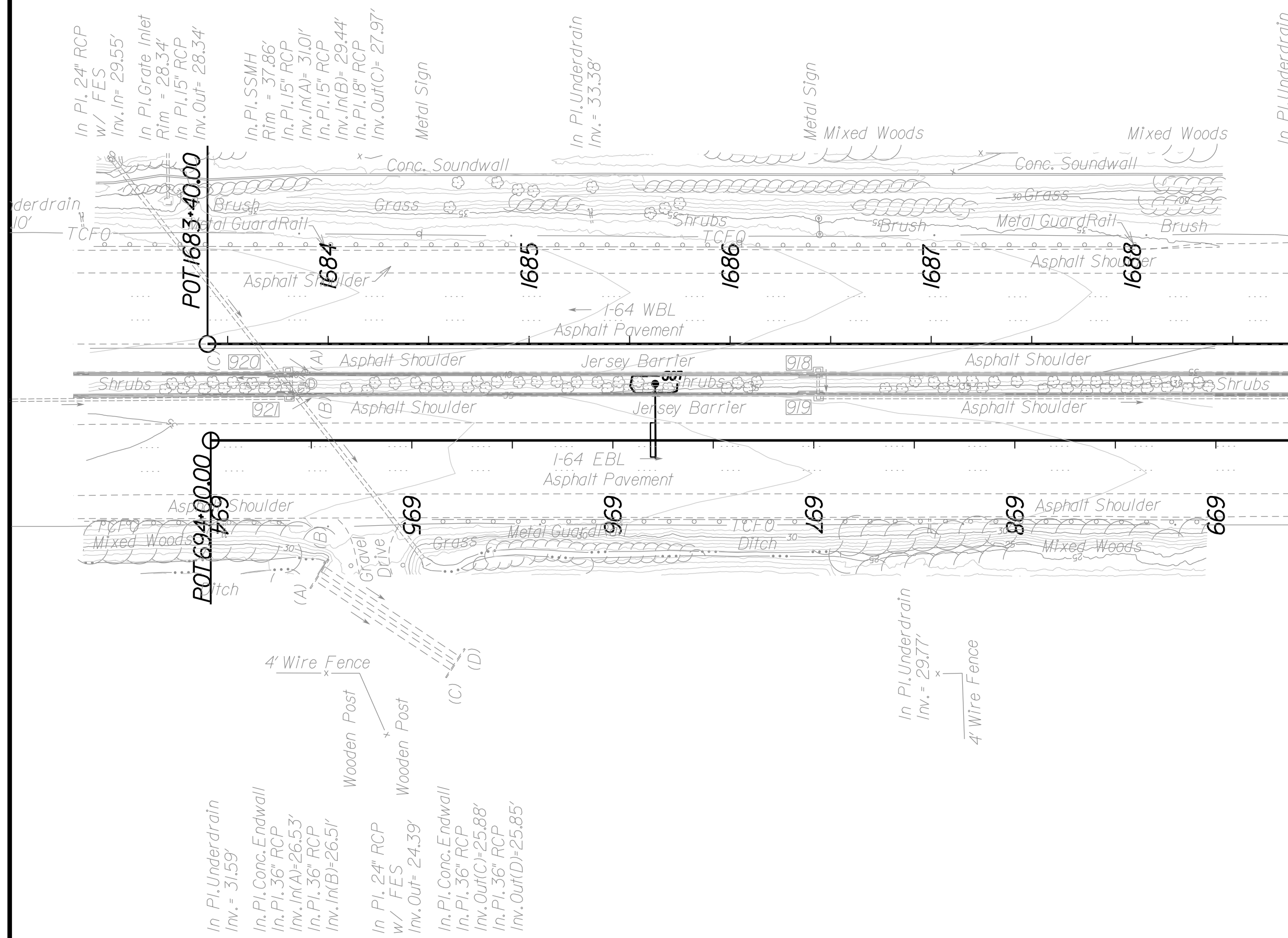
PROJECT MANAGER: Erin Eoley, P.E. (757) 222-1500
 SURVEYED BY, DATE: Rise Associates, Inc. (757) 306-4260
 DESIGN BY: HDR Engineering, Inc.
 SUBSURFACE UTILITY BY, DATE: N/A

EROSION AND SEDIMENT CONTROL PLAN

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	64		0064-121-418, P101	3C

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

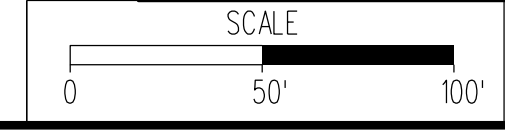
HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER



Matchline Sta. 708+00 See Sheet 4C

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.



PROJECT: 0064-121-418
SHEET NO.: 3C

1 Inlet Protection Type B shall protect the entire length of trench drain

PROJECT MANAGER: Erin Eoley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: N/A

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	64		0064-121-418, P101	4

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER



Matchline Sta. 708-00 See Sheet 3

Matchline Sta. 722-00 See Sheet 5

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

E&S Control Plan ITS & Tolling 4C 54(4)

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

SCALE 0 50' 100'

PROJECT 0064-121-418 SHEET NO. 4

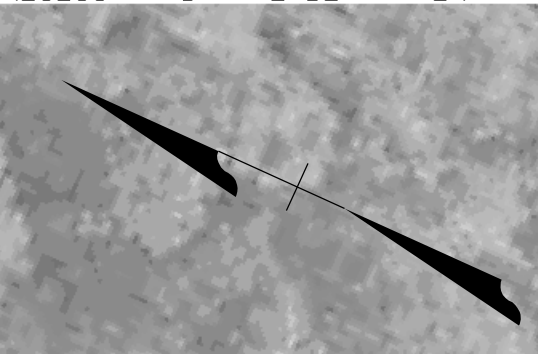
PROJECT MANAGER: Erin Eoley, P.E. (757) 222-1500
SURVEYED BY: DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR Engineering, Inc.
SUBSURFACE UTILITY BY: DATE: N/A

EROSION AND SEDIMENT CONTROL PLAN

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	64		0064-121-418, P101	4C

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER



 Inlet Protection Type B shall protect the entire length of trench drain

P.H. PLANS
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

SCALE: 0 50' 100'

PROJECT: 0064-121-418 SHEET NO. 4C

PROJECT MANAGER: Erin Eoley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: N/A

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	5

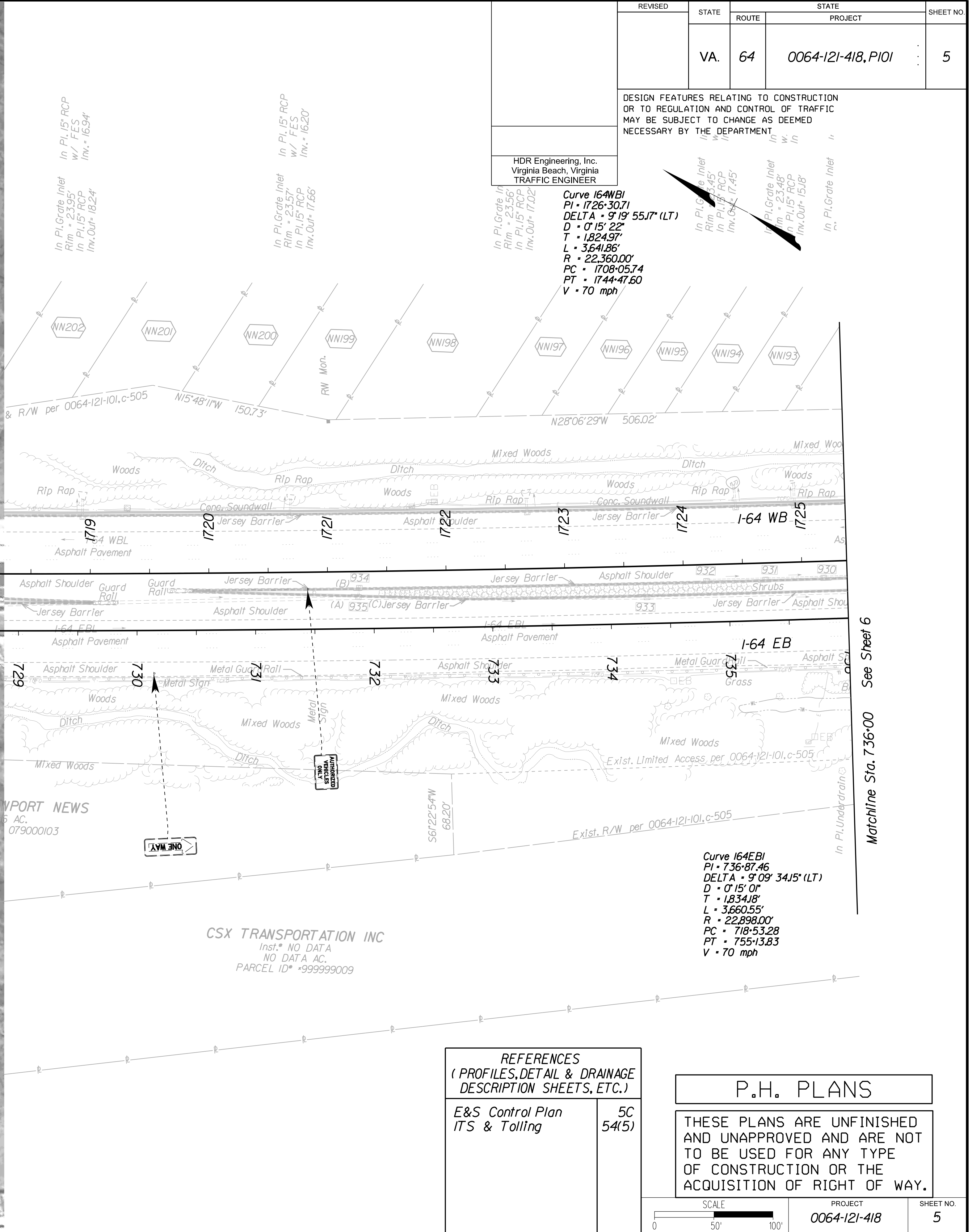
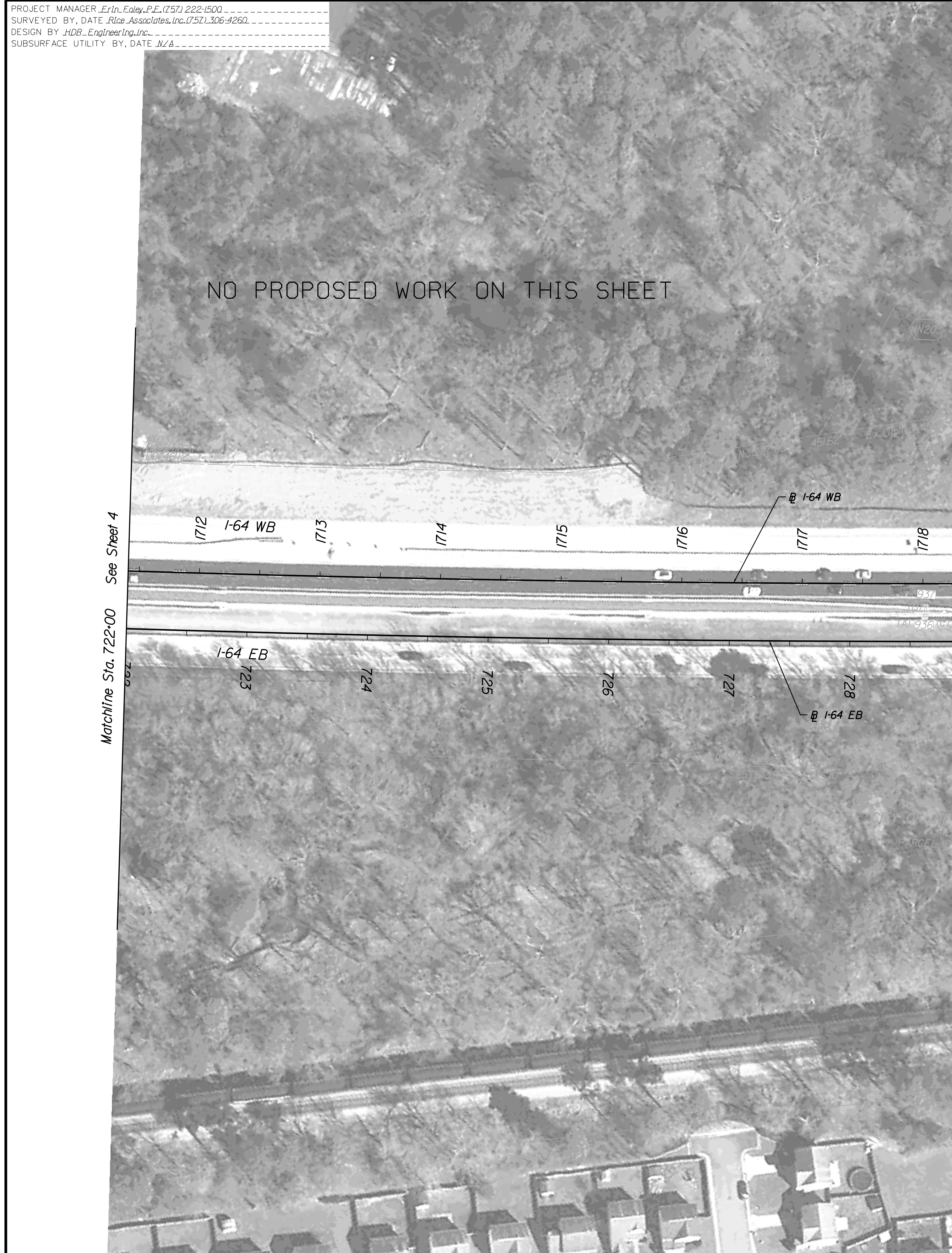
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER

Curve 164WBI
PI • 1726-30.71
DELTA • 9° 19' 55.17" (LT)
D • 0' 15' 22"
T • 1824.97'
L • 3641.86'
R • 22,360.00'
PC • 1708-05.74
PT • 1744-47.60
V • 70 mph



NO PROPOSED WORK ON THIS SHEET



Matchline Sta. 722-00 See Sheet 4

Matchline Sta. 736-00 See Sheet 6

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

E&S Control Plan ITS & Tolling	5C 54(5)
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P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: N/A

EROSION AND SEDIMENT CONTROL PLAN

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	5C

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER



Matchline Sta. 722+00 See Sheet 4C

Matchline Sta. 736+00 See Sheet 6C

 Inlet Protection type B shall protect the entire length of trench drain

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.



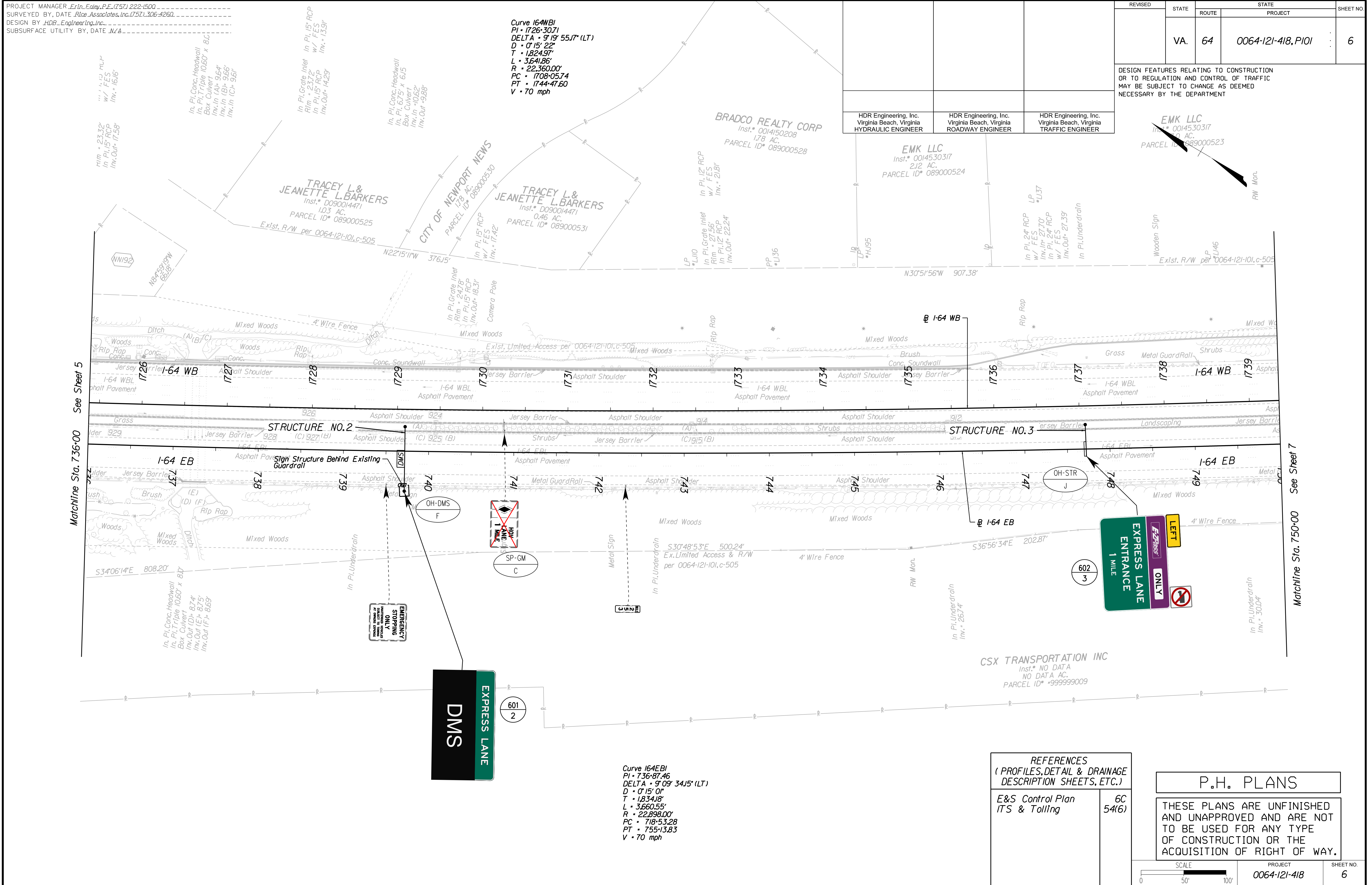
PROJECT
0064-121-418

SHEET NO.
5C

PROJECT MANAGER: Erin Eoley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDR Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: N/A

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	6

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



Matchline Sta. 736+00 See Sheet 5

Matchline Sta. 750+00 See Sheet 7

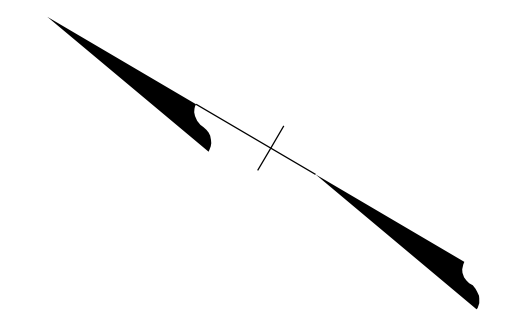
PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: N/A

EROSION AND SEDIMENT CONTROL PLAN

REVISED	STATE	STATE		SHEET NO.
	ROUTE	PROJECT		
	VA.	64	0064-121-418, P101	6C

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER



Matchline Sta. 736+00 See Sheet 5C

Matchline Sta. 750+00 See Sheet 7C

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

Inlet Protection Type B shall protect the entire length of trench drain

PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineer/Inc.
SUBSURFACE UTILITY BY, DATE: N/A

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	7

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

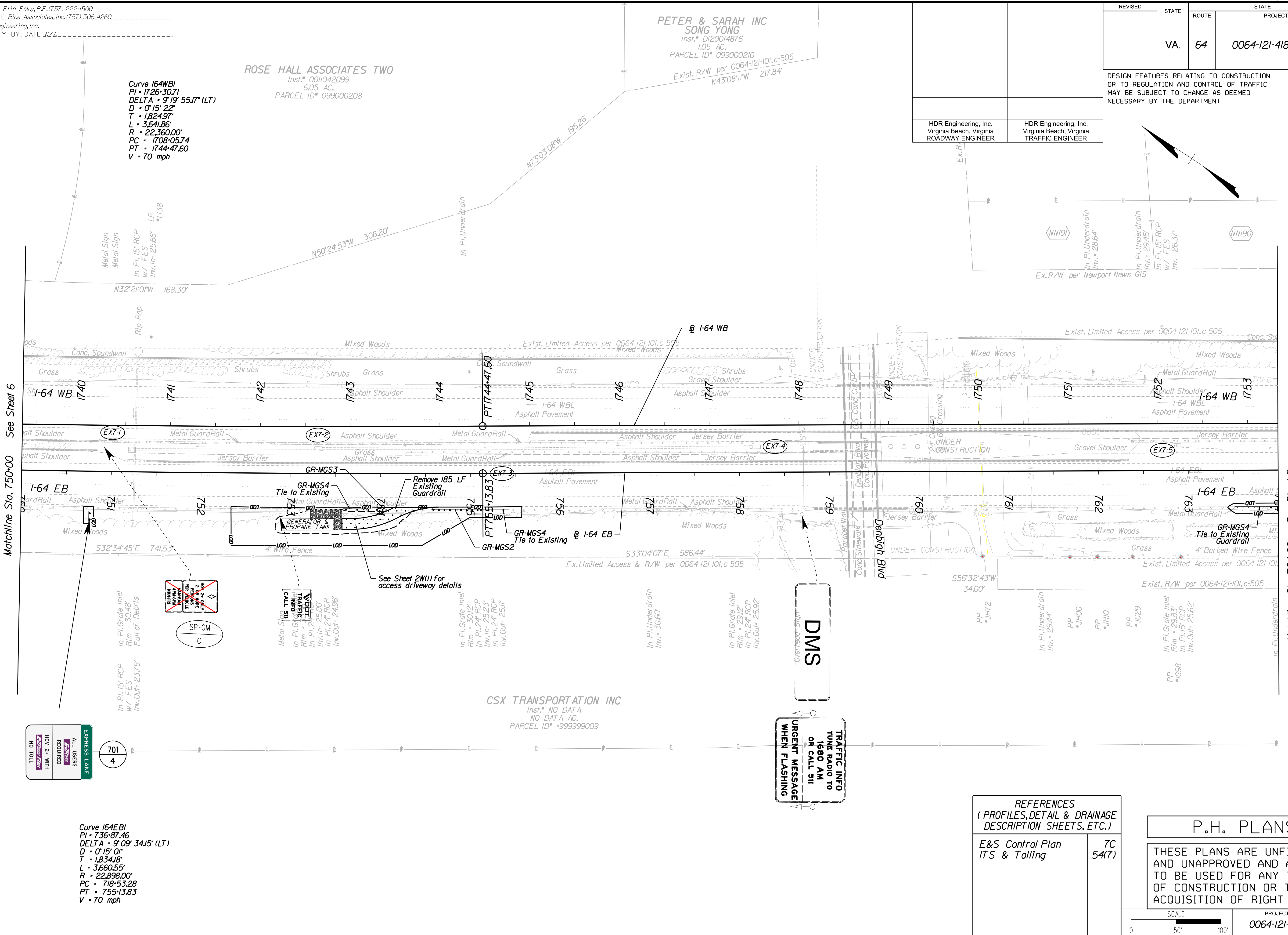
HDR Engineering, Inc.
Virginia Beach, Virginia
ROADWAY ENGINEER

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER

Curve 164WB1
PI • 1726.3071
DELTA • 9° 19' 55.17" (LT)
D • 0' 15" 22"
T • 1824.97'
L • 3641.86'
R • 22,360.00'
PC • 1708.0574
PT • 1744.4760
V • 70 mph

ROSE HALL ASSOCIATES TWO
Inst. # 0011042099
6.05 AC.
PARCEL ID # 099000208

PETER & SARAH INC
SONG YONG
Inst. # DI20014876
1.05 AC.
PARCEL ID # 099000210
Exist. R/W per 0064-121-101, c-505
N43°08'11"W 217.84'



Matchline Sta. 750+00 See Sheet 6

Matchline Sta. 764+00 See Sheet 8

EXPRESS LANE
ALL USERS
REQUIRED
HOV 2+ WITH
75¢/30 MIN
NO TOLL

701
4

Curve 164EB1
PI • 736.8746
DELTA • 9° 09' 34.15" (LT)
D • 0' 15" 01"
T • 1834.18'
L • 3660.55'
R • 22,898.00'
PC • 718.5328
PT • 755.1383
V • 70 mph

CSX TRANSPORTATION INC
Inst. # NO DATA
NO DATA AC.
PARCEL ID # 999999009

DMS
Overhead Sign

TRAFFIC INFO
TUNE RADIO TO
1680 AM
OR CALL 511
URGENT MESSAGE
WHEN FLASHING

REFERENCES
(PROFILES, DETAIL & DRAINAGE
DESCRIPTION SHEETS, ETC.)

E&S Control Plan
ITS & Tolling

7C
54(7)

P.H. PLANS

THESE PLANS ARE UNFINISHED
AND UNAPPROVED AND ARE NOT
TO BE USED FOR ANY TYPE
OF CONSTRUCTION OR THE
ACQUISITION OF RIGHT OF WAY.

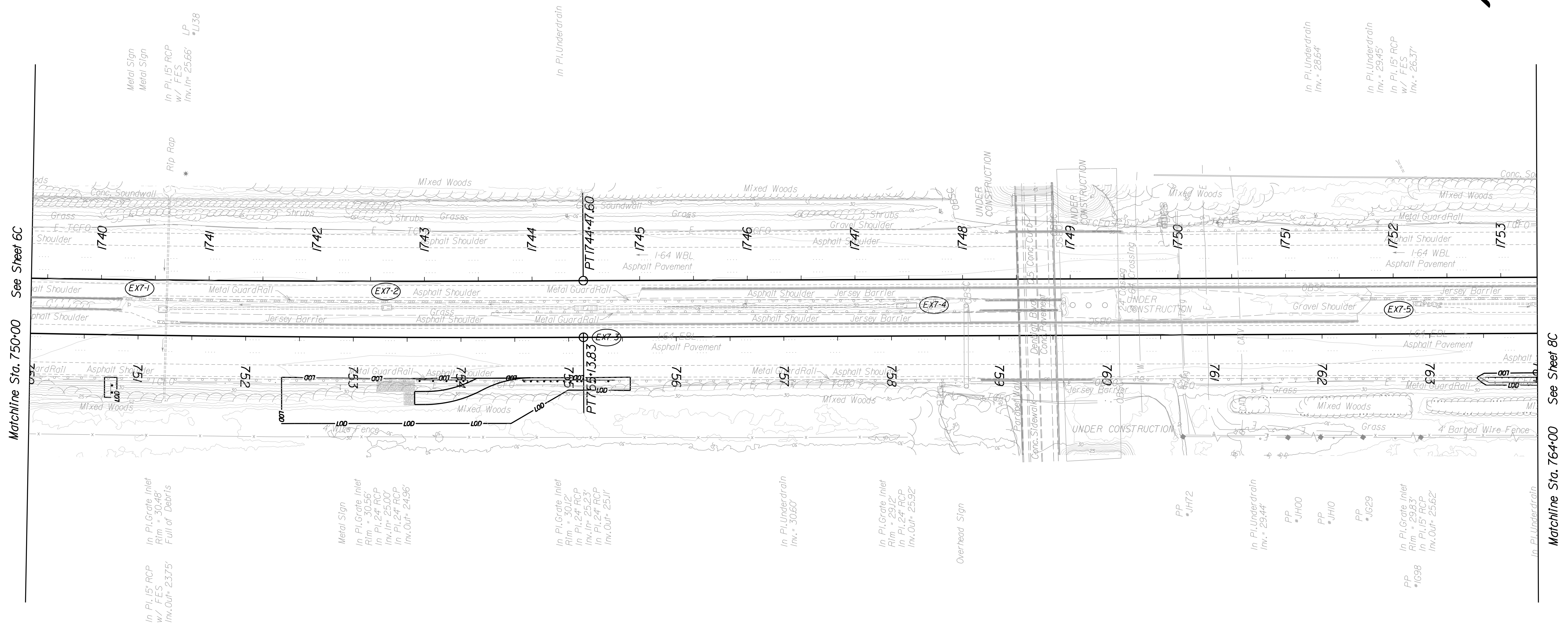
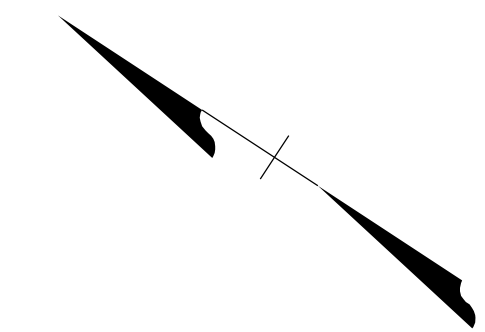
PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: MZA

EROSION AND SEDIMENT CONTROL PLAN

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	7C

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER



Matchline Sta. 750+00 See Sheet 6C

Matchline Sta. 764+00 See Sheet 8C

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

1 Inlet Protection Type B shall protect the entire length of trench drain

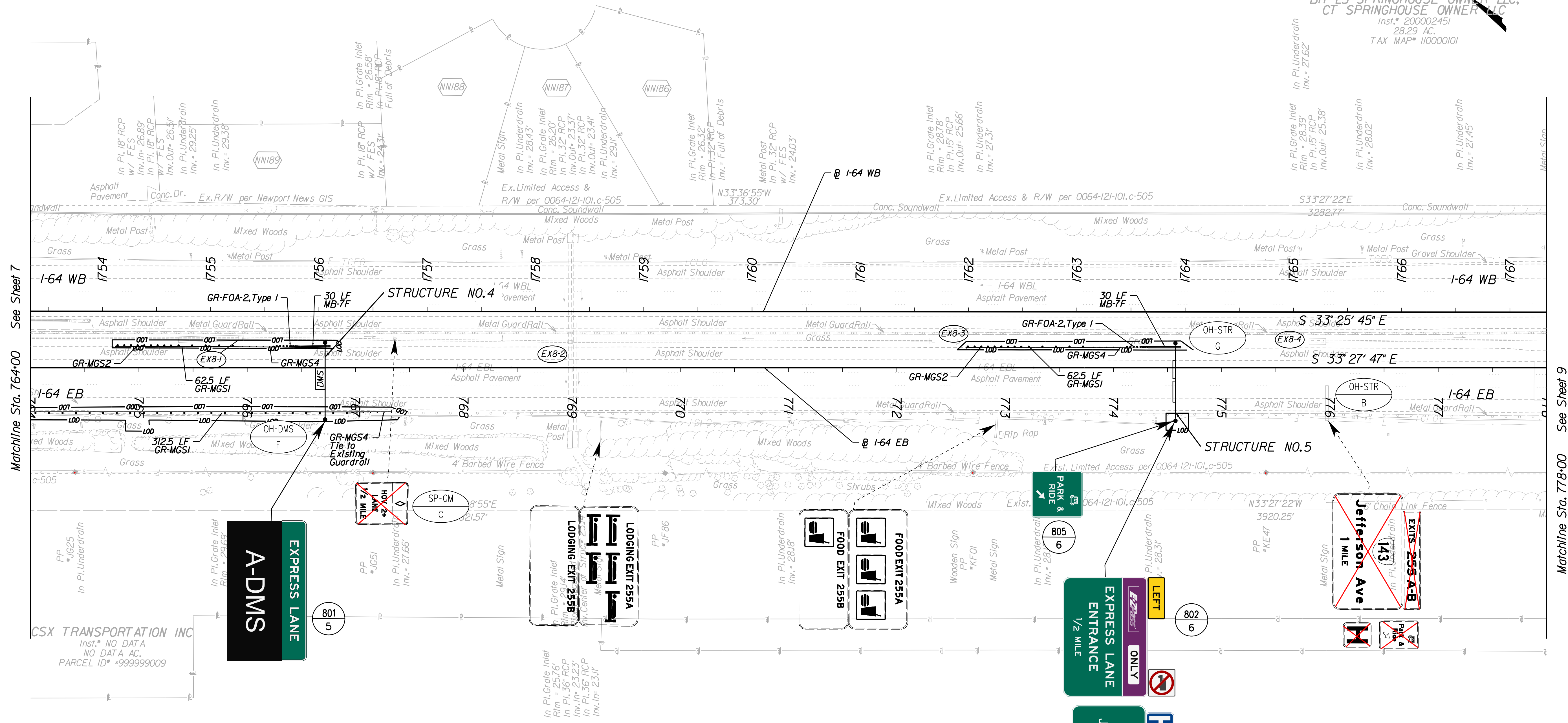
PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: N/A

REVISED	STATE	ROUTE	STATE		SHEET NO.
			PROJECT		
	VA.	64	0064-121-418, P101		8

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc. Virginia Beach, Virginia HYDRAULIC ENGINEER	HDR Engineering, Inc. Virginia Beach, Virginia ROADWAY ENGINEER	HDR Engineering, Inc. Virginia Beach, Virginia TRAFFIC ENGINEER
---	---	---

BH L5 SPRINGHOUSE OWNER LLC,
CT SPRINGHOUSE OWNER LLC
Inst. # 200002451
28.29 AC
TAX MAP # 110000101



Matchline Sta. 764+00 See Sheet 7

Matchline Sta. 778+00 See Sheet 9

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

E&S Control Plan
ITS & Tolling

8C
54(8)

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

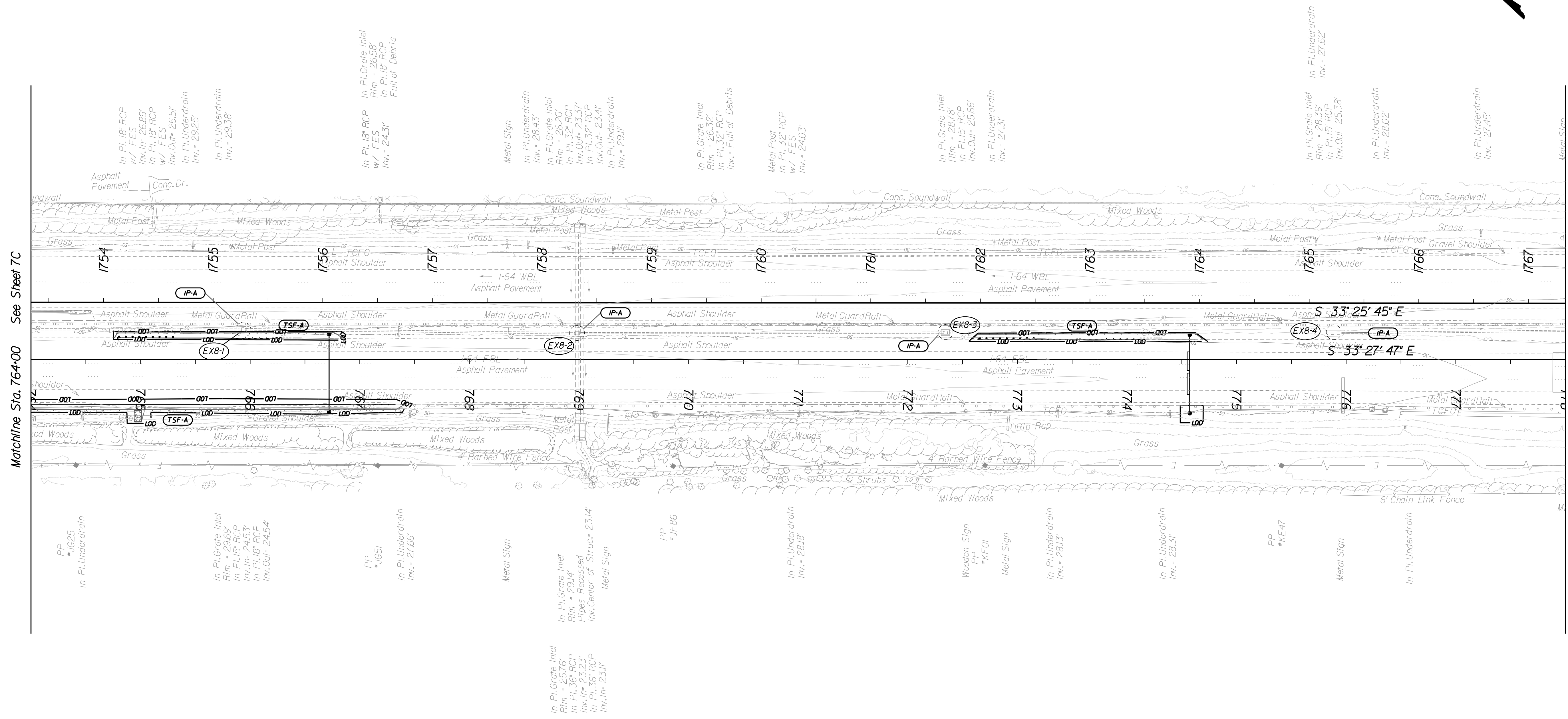
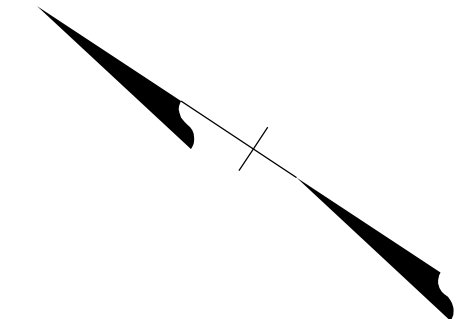
PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineer/Ing, Inc.
SUBSURFACE UTILITY BY, DATE: MZA

EROSION AND SEDIMENT CONTROL PLAN

REVISED	STATE	ROUTE	STATE	SHEET NO.
			PROJECT	
	VA.	64	0064-121-418, P101	8C

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER



Matchline Sta. 764+00 See Sheet 7C

Matchline Sta. 778+00 See Sheet 9C

P.H. PLANS
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

1 Inlet Protection Type B shall protect the entire length of trench drain

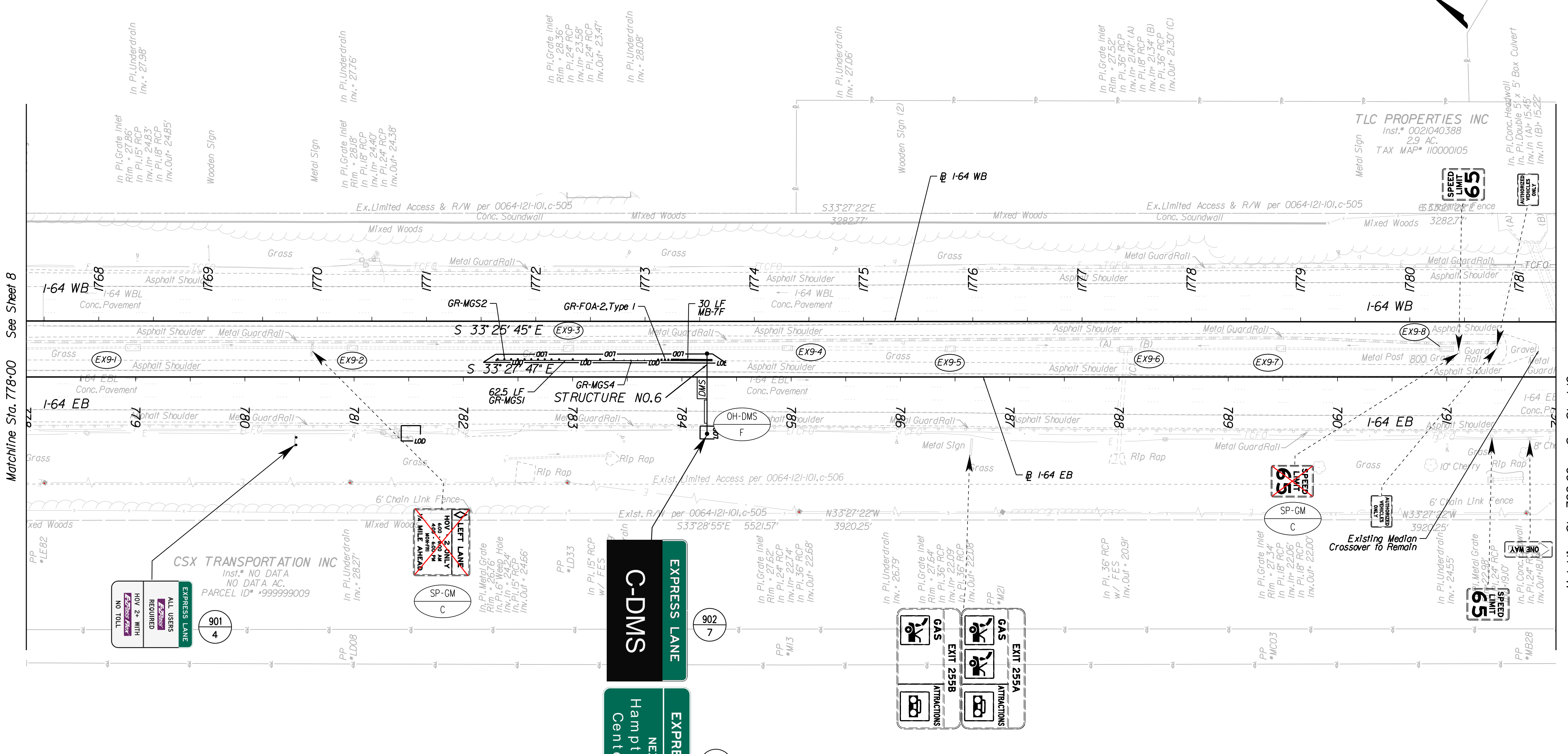
PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY: DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineer/Ing, Inc.
SUBSURFACE UTILITY BY: DATE: N/A

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	64		0064-121-418, P101	9

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc. Virginia Beach, Virginia HYDRAULIC ENGINEER	HDR Engineering, Inc. Virginia Beach, Virginia ROADWAY ENGINEER	HDR Engineering, Inc. Virginia Beach, Virginia TRAFFIC ENGINEER
---	---	---

BH L5 SPRINGHOUSE OWNER LLC,
CT SPRINGHOUSE OWNER LLC
Inst.* 200002451
28.29 AC.
TAX MAP* 110000101



Matchline Sta. 778+00 See Sheet 8

Matchline Sta. 792+00 See Sheet 10

CSX TRANSPORTATION INC
Inst.* NO DATA
NO DATA AC.
PARCEL ID* 999999909

EXPRESS LANE
ALL USERS
REQUIRED
NO TOLL

901
4

C-DMS
EXPRESS LANE
NEXT EXIT
Hampton Roads
Center Pkwy

902
7

903
7

EXIT 255B
GAS
ATTRACTIONS

EXIT 255A
GAS
ATTRACTIONS

REFERENCES
(PROFILES, DETAIL & DRAINAGE
DESCRIPTION SHEETS, ETC.)

E&S Control Plan ITS & Tolling	9C 54(9)
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P.H. PLANS

THESE PLANS ARE UNFINISHED
AND UNAPPROVED AND ARE NOT
TO BE USED FOR ANY TYPE
OF CONSTRUCTION OR THE
ACQUISITION OF RIGHT OF WAY.

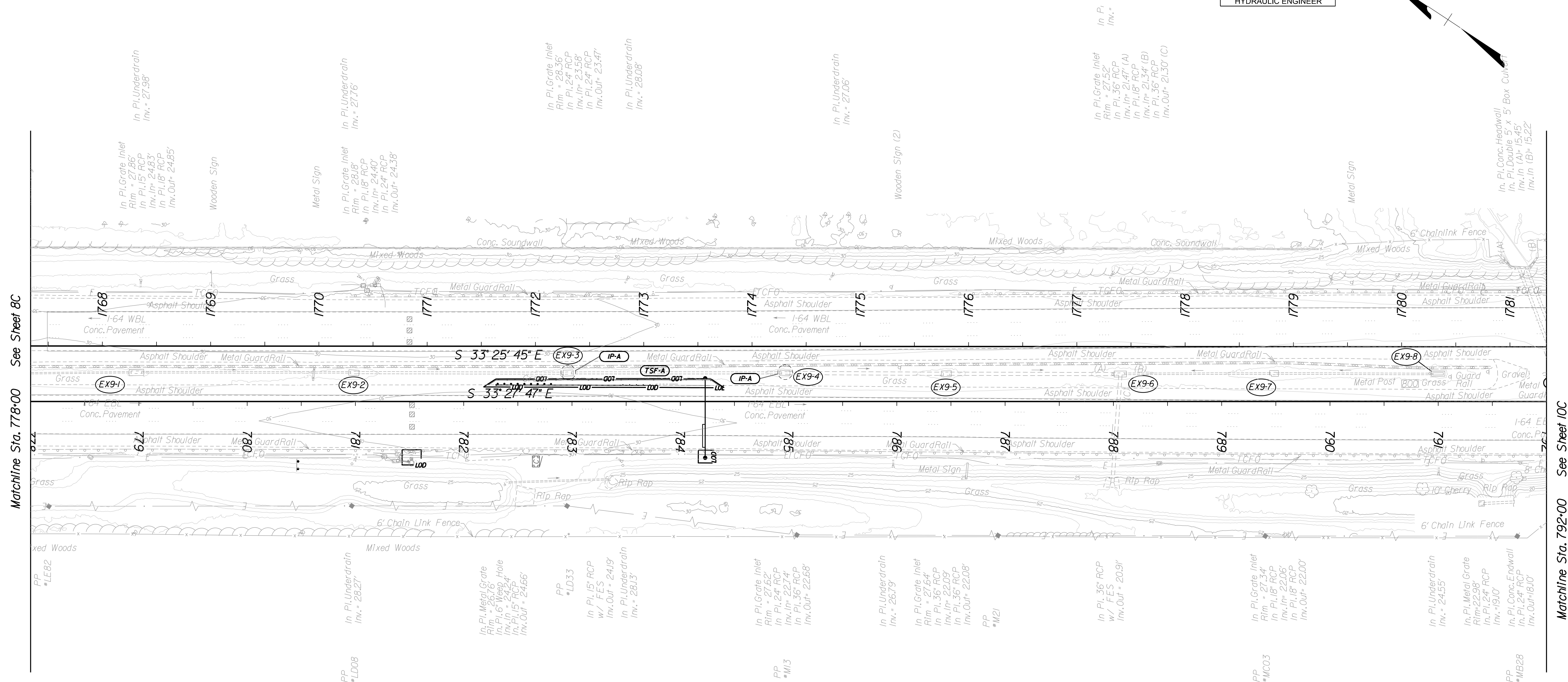
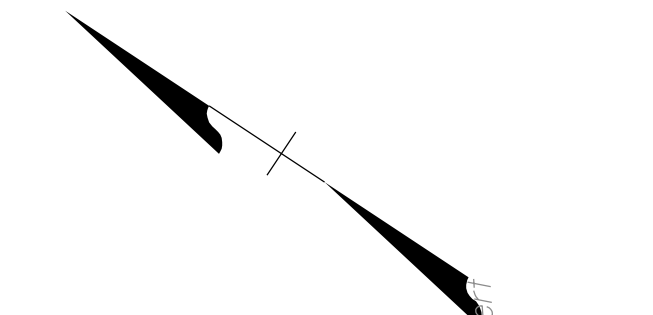
PROJECT MANAGER: *Erin Ealey, P.E.* (757) 222-1500
SURVEYED BY, DATE: *Rise Associates, Inc.* (757) 306-4260
DESIGN BY: *HDR, Engineer/Insp.*
SUBSURFACE UTILITY BY, DATE: *MZA*

EROSION AND SEDIMENT CONTROL PLAN

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	64		0064-121-418, P101	9C

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER



Matchline Sta. 778+00 See Sheet 8C

Matchline Sta. 792+00 See Sheet 10C

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

1 Inlet Protection Type B shall protect the entire length of trench drain

PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineer/Ing./Inc.
SUBSURFACE UTILITY BY, DATE: N/A

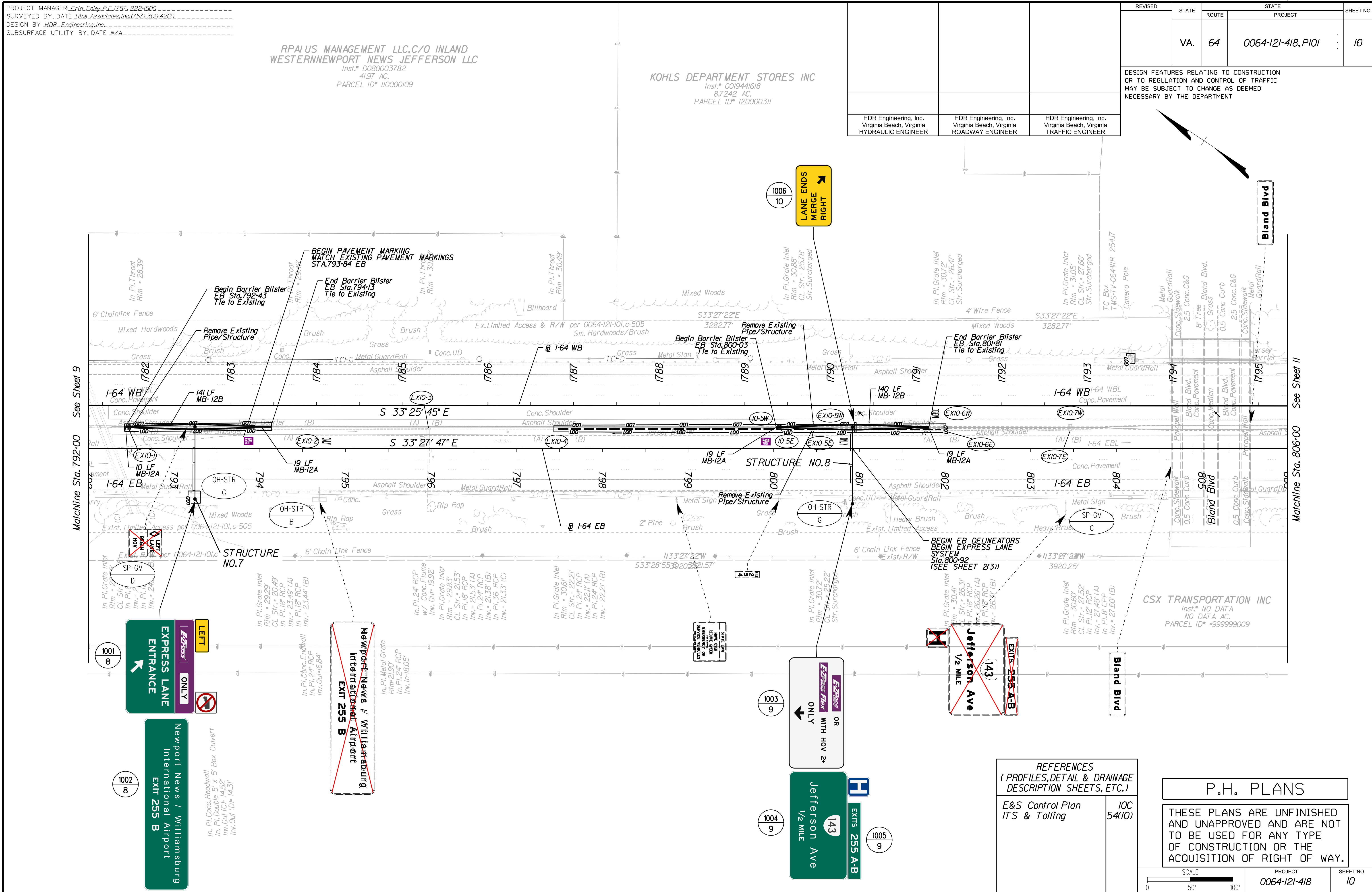
RPAI US MANAGEMENT LLC, C/O INLAND
WESTERNNEWPORT NEWS JEFFERSON LLC
Inst. # D080003782
41.97 AC.
PARCEL ID # 110000109

KOHL'S DEPARTMENT STORES INC
Inst. # 0019441618
87.242 AC.
PARCEL ID # 120000311

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	64		0064-121-418, P101	10

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc. Virginia Beach, Virginia HYDRAULIC ENGINEER	HDR Engineering, Inc. Virginia Beach, Virginia ROADWAY ENGINEER	HDR Engineering, Inc. Virginia Beach, Virginia TRAFFIC ENGINEER
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REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

E&S Control Plan ITS & Tolling 10C 54(10)

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

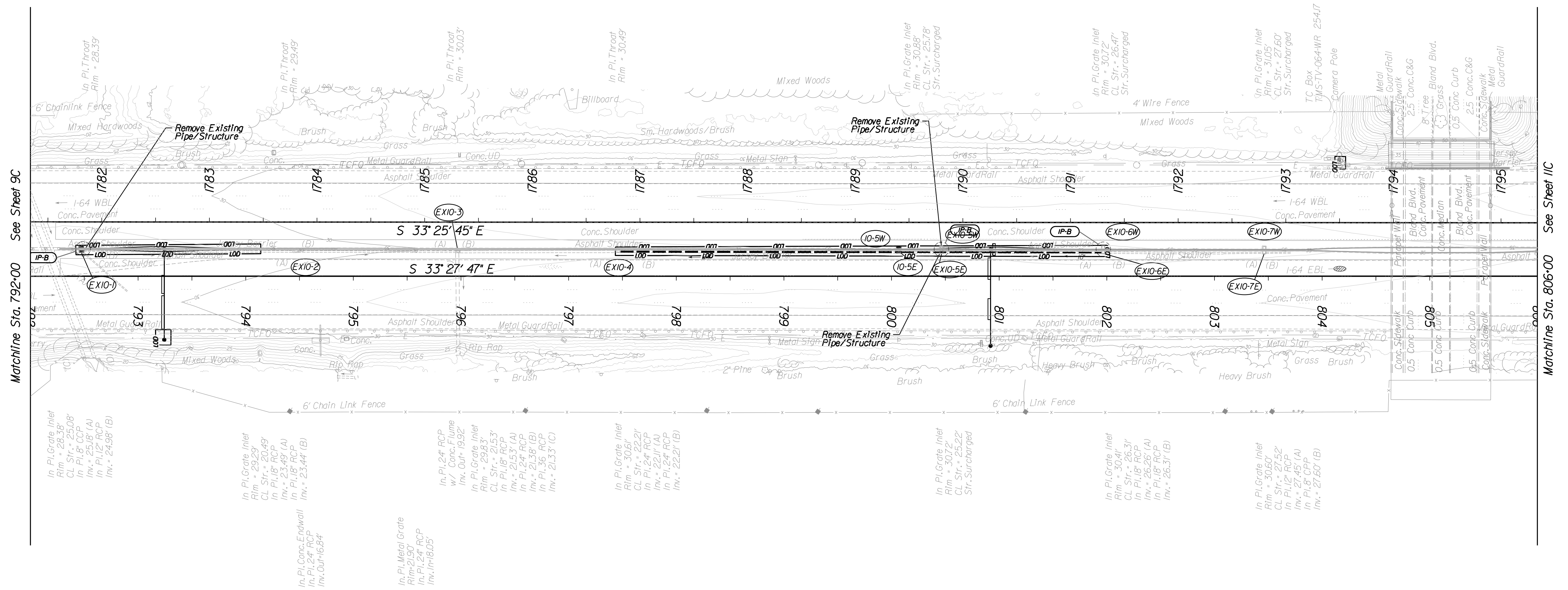
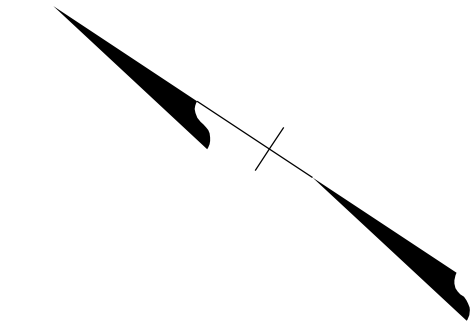
PROJECT MANAGER: ErIn_Eoley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rhee_Associates, Inc. (757) 306-4260
DESIGN BY: HDR_Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: MZA

EROSION AND SEDIMENT CONTROL PLAN

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	10C

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER

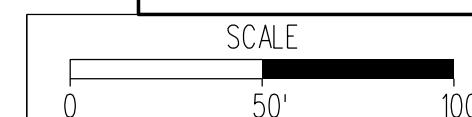


In, Pl. Conc. Headwall
In, Pl. Double 5' Box Culvert
Inv. Out (C) = 14.52'
Inv. Out (D) = 14.31'

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

Inlet Protection Type B shall protect the entire length of trench drain



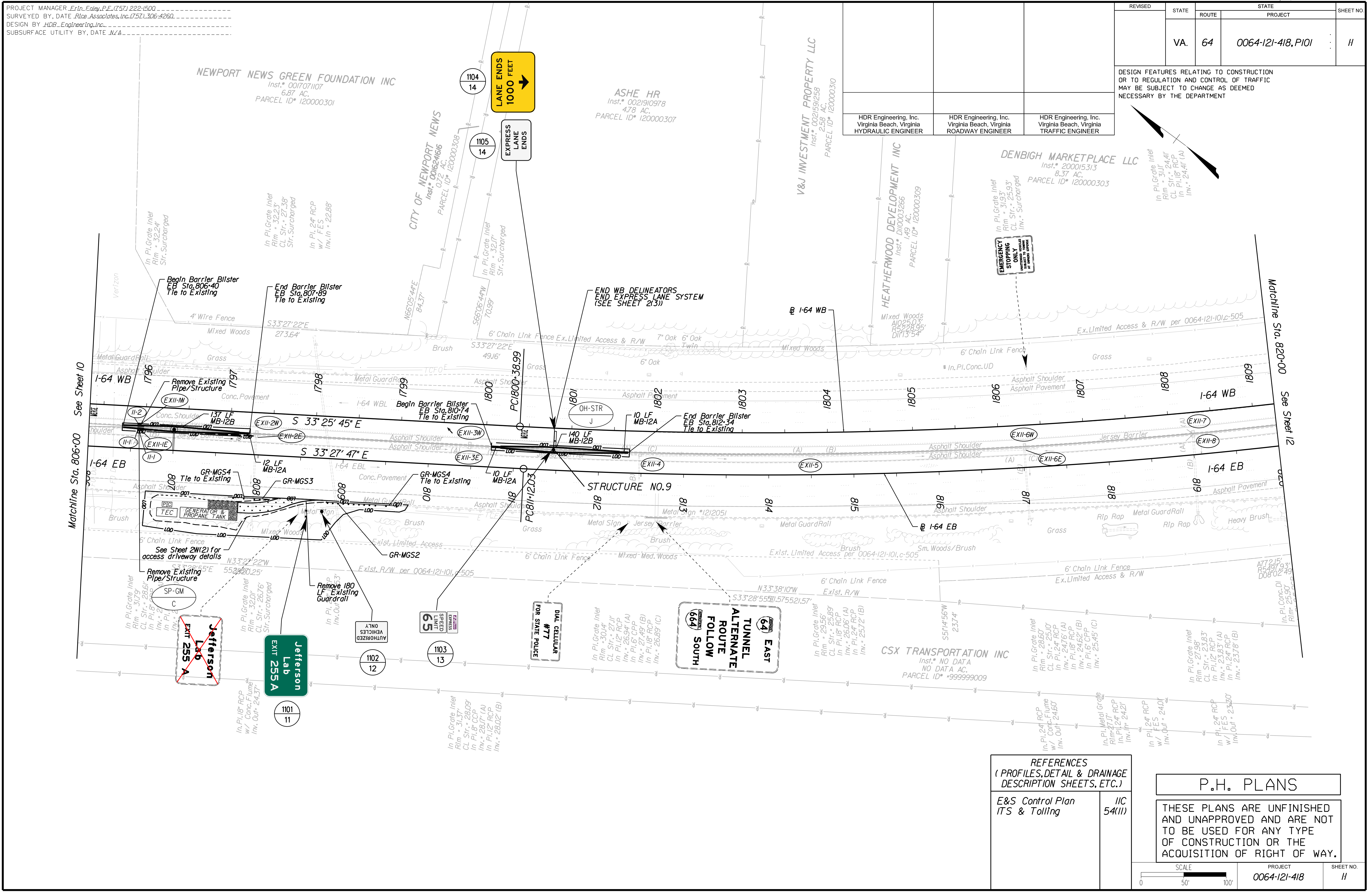
PROJECT: 0064-121-418
SHEET NO.: 10C

PROJECT MANAGER: Erin Eoley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: N/A

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	64		0064-121-418, P101	11

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc. Virginia Beach, Virginia HYDRAULIC ENGINEER	HDR Engineering, Inc. Virginia Beach, Virginia ROADWAY ENGINEER	HDR Engineering, Inc. Virginia Beach, Virginia TRAFFIC ENGINEER
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REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

E&S Control Plan
ITS & Tolling

IIC
54(11)

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

SCALE 0 50 100'	PROJECT 0064-121-418	SHEET NO. 11
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PROJECT MANAGER: ErIn_Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice_Associates, Inc. (757) 306-4260
DESIGN BY: HDR_Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: N/A

EROSION AND SEDIMENT CONTROL PLAN

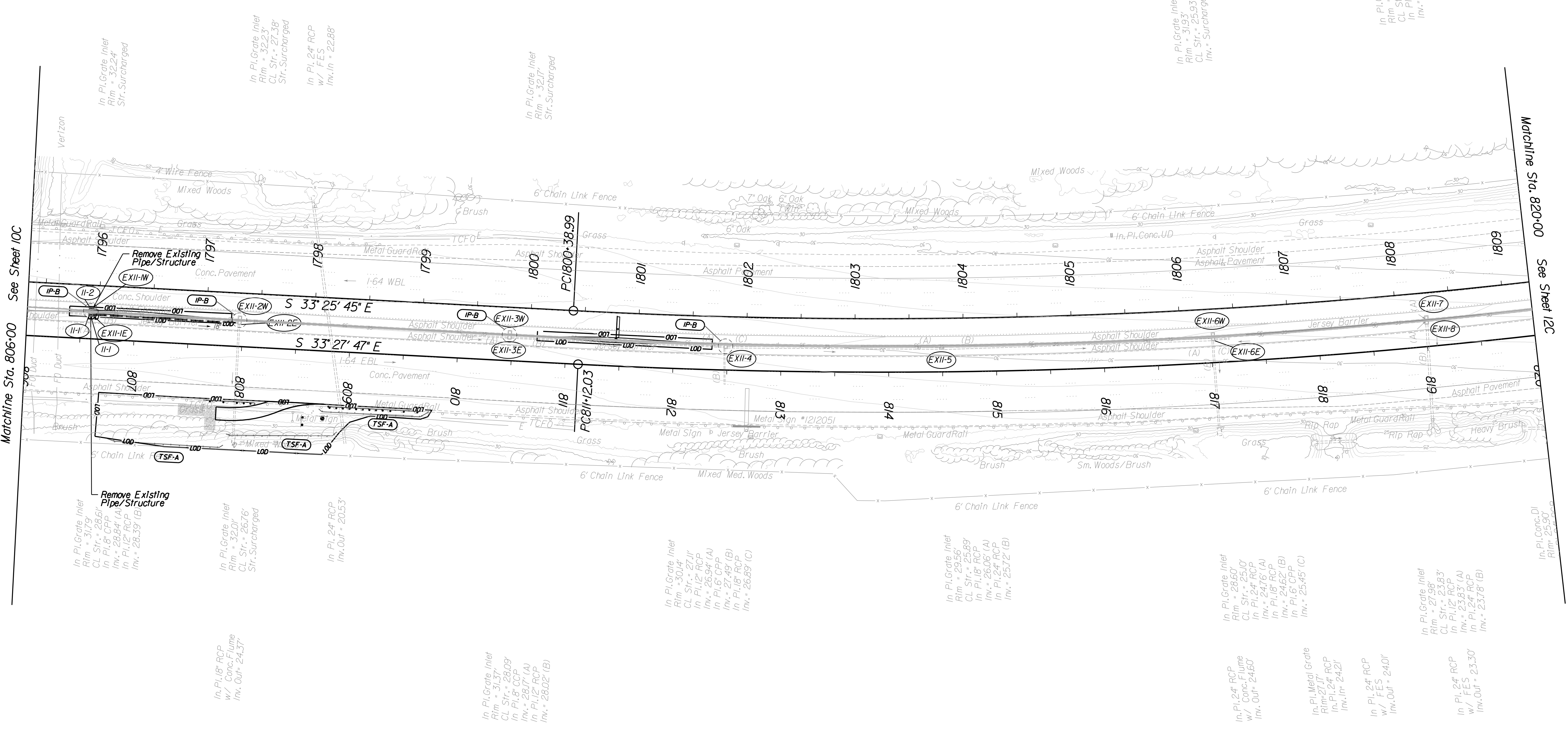
REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	64		0064-121-418, P101	IIC

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER

In PI Grate Inlet
Rim = 31.94'
CL Str. = 25.93'
In PI 18" RCP
Inv. = 24.41' (A)

In PI Grate Inlet
Rim = 31.93'
CL Str. = 25.93'
Inv. = Surcharged



In PI Grate Inlet
Rim = 32.24'
CL Str. = 27.38'
Str. Surcharged

In PI Grate Inlet
Rim = 32.23'
CL Str. = 27.38'
Str. Surcharged

In PI 24" RCP
w/ FES
Inv. In = 22.88'

In PI Grate Inlet
Rim = 32.17'
Str. Surcharged

Matchline Sta. 806+00 See Sheet 10C

Matchline Sta. 820+00 See Sheet 12C

In PI Grate Inlet
Rim = 31.79'
CL Str. = 26.65'
In PI 18" RCP
Inv. = 28.64' (A)
In PI 12" RCP
Inv. = 28.59' (B)

In PI Grate Inlet
Rim = 31.50'
CL Str. = 26.76'
Str. Surcharged

In PI 24" RCP
Inv. Out = 20.53'

In PI Grate Inlet
Rim = 30.14'
CL Str. = 27.17'
In PI 12" RCP
Inv. = 26.94' (A)
In PI 6" CFP
Inv. = 27.49' (B)
In PI 18" RCP
Inv. = 26.69' (C)

In PI Grate Inlet
Rim = 29.56'
CL Str. = 25.89'
In PI 18" RCP
Inv. = 26.06' (A)
In PI 24" RCP
Inv. = 25.72' (B)

In PI Grate Inlet
Rim = 28.60'
CL Str. = 25.10'
In PI 24" RCP
Inv. = 24.76' (A)
In PI 18" RCP
Inv. = 24.62' (B)
In PI 6" CFP
Inv. = 25.45' (C)

In PI Grate Inlet
Rim = 27.98'
CL Str. = 23.83'
In PI 12" RCP
Inv. = 23.83' (A)
In PI 24" RCP
Inv. = 23.78' (B)

In PI 18" RCP
w/ Conc. Flume
Inv. Out = 24.37'

In PI Grate Inlet
Rim = 31.37'
CL Str. = 28.09'
In PI 18" RCP
Inv. = 28.77' (A)
In PI 12" RCP
Inv. = 28.02' (B)

In PI 24" RCP
w/ Conc. Flume
Inv. Out = 24.60'

In PI Metal Grate
Rim = 27.17' RCP
Inv. In = 24.21'

In PI 24" RCP
w/ FES
Inv. Out = 24.01'

In PI 24" RCP
w/ FES
Inv. Out = 23.30'

P.H. PLANS
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

Inlet Protection Type B shall protect the entire length of trench drain

PROJECT MANAGER: *Erin Eoley, P.E.* (757) 222-1500
SURVEYED BY, DATE: *Rhine Associates, Inc.* (757) 306-4260
DESIGN BY: *HDR, Engineer/Ing, Inc.*
SUBSURFACE UTILITY BY, DATE: *N/A*

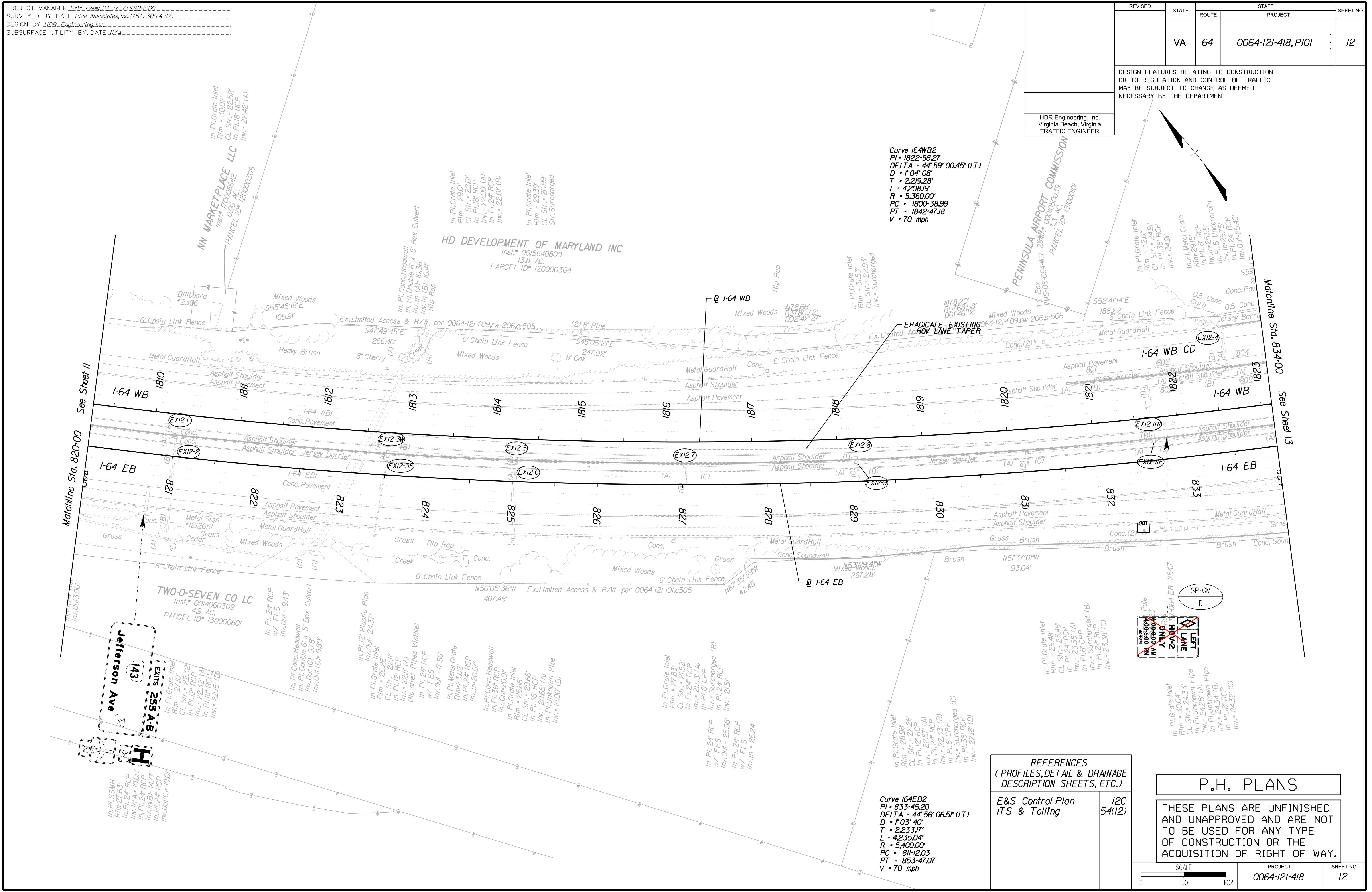
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	12

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER

Curve 164WB2
PI = 1822-58.27
DELTA = 44° 59' 00.45" (LT)
D = 1' 04' 08"
T = 2,219.28'
L = 4,206.19'
R = 5,360.00'
PC = 1800-38.99
PT = 1842-47.18
V = 70 mph

Curve 164EB2
PI = 833-45.20
DELTA = 44° 56' 06.51" (LT)
D = 1' 03' 40"
T = 2,233.17'
L = 4,235.04'
R = 5,400.00'
PC = 811-12.03
PT = 853-47.07
V = 70 mph



REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

E&S Control Plan ITS & Tolling 12C 54(12)

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

SCALE 0 50 100'	PROJECT 0064-121-418	SHEET NO. 12
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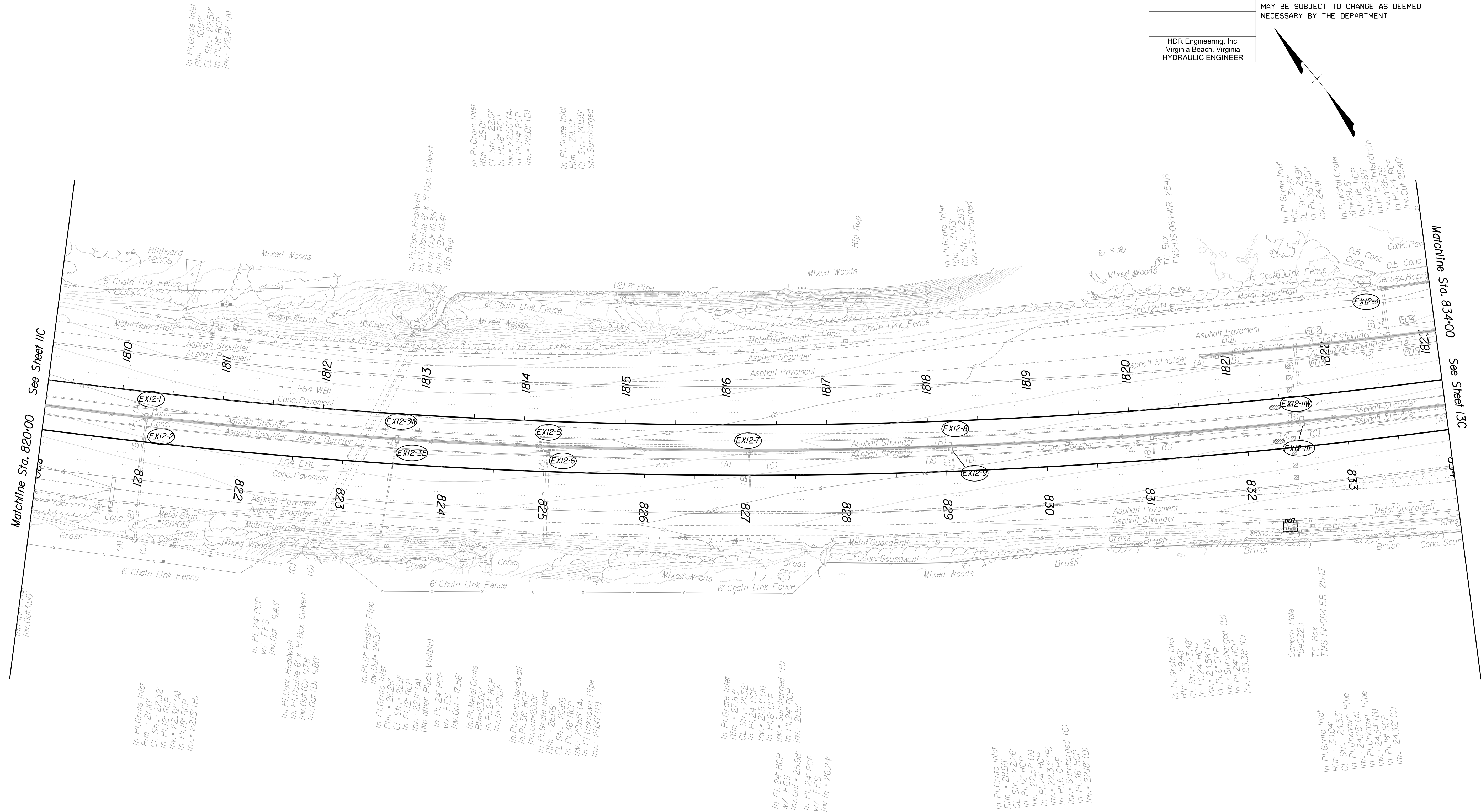
PROJECT MANAGER: ErIn_Eoley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice_Associates, Inc. (757) 306-4260
DESIGN BY: HDR_Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: MZA

EROSION AND SEDIMENT CONTROL PLAN

REVISED	STATE	ROUTE	STATE	SHEET NO.
			PROJECT	
	VA.	64	0064-121-418, P101	12C

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER



P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

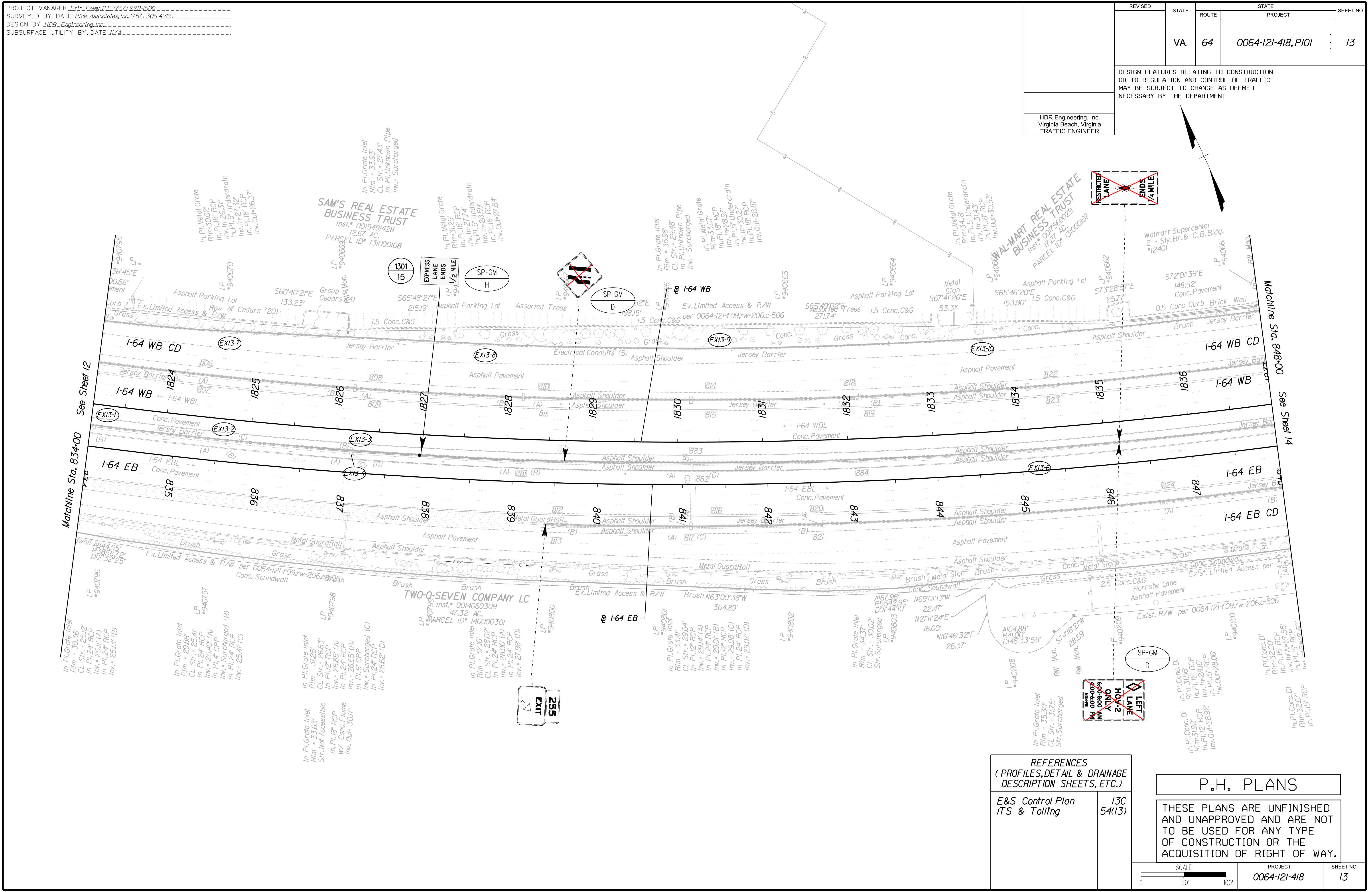
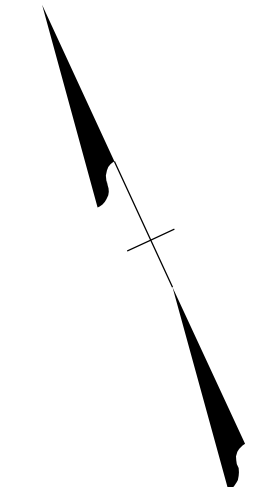
△ Inlet Protection Type B shall protect the entire length of trench drain

PROJECT MANAGER: Erin Foley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineer/Ing, Inc.
SUBSURFACE UTILITY BY, DATE: N/A

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	13

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER



REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

E&S Control Plan ITS & Tolling 13C 54(13)

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

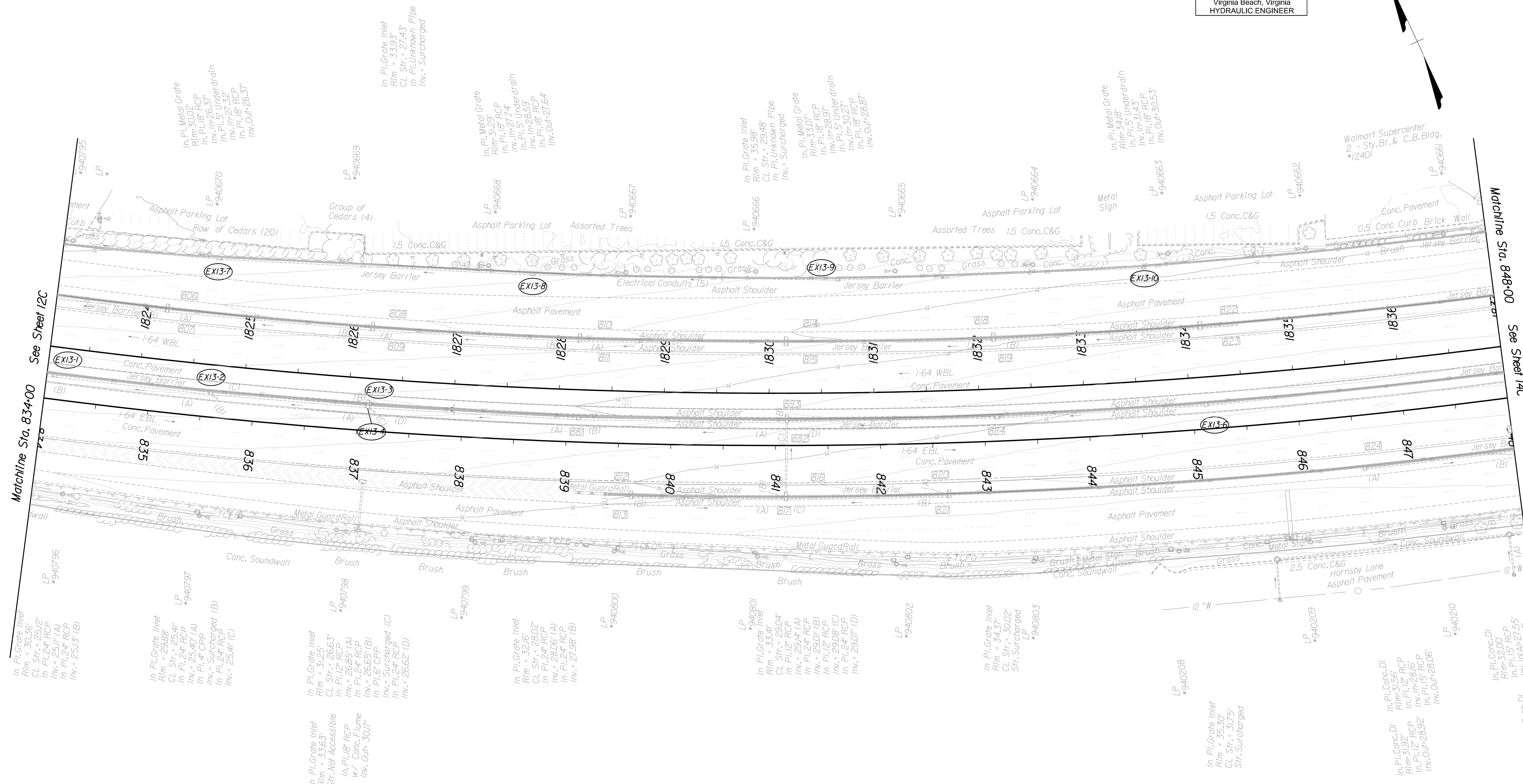
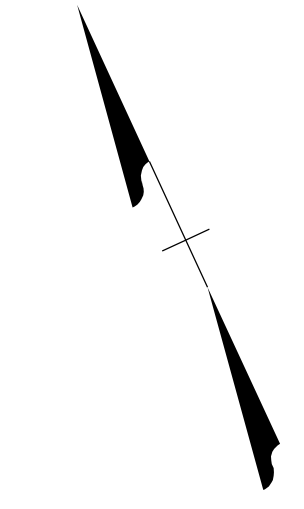
PROJECT MANAGER: ErIn_Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rhee_Associates, Inc. (757) 306-4260
DESIGN BY: HDR_Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: MZA

EROSION AND SEDIMENT CONTROL PLAN

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	13C

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER



P.H. PLANS
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

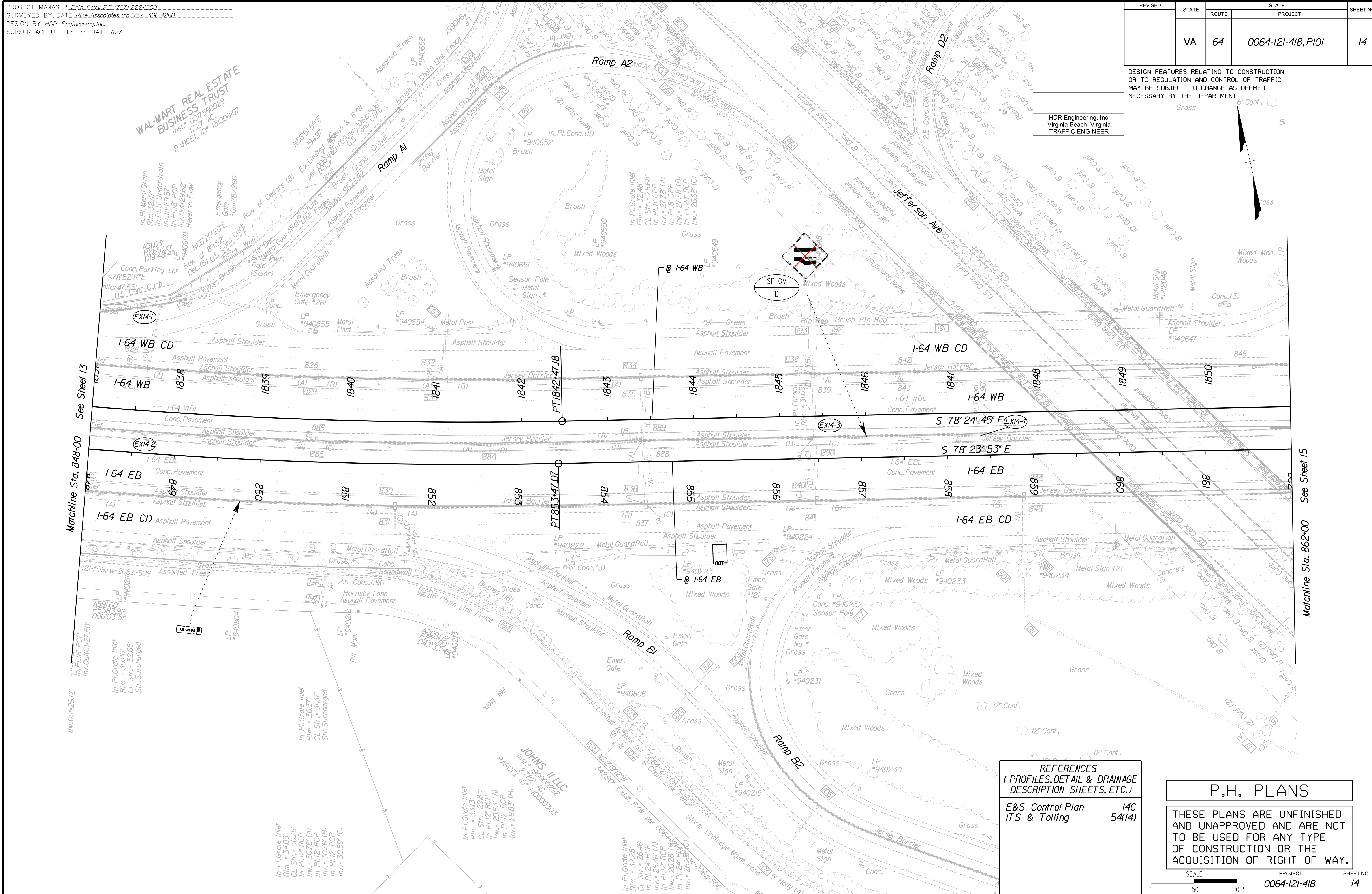
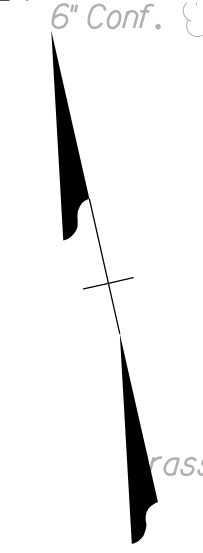
Inlet Protection Type B shall protect the entire length of trench drain

PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDR Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: N/A

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	64		0064-121-418, P101	14

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER



REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

E&S Control Plan ITS & Tolling 14C 54(14)

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

SCALE 0 50 100'	PROJECT 0064-121-418	SHEET NO. 14
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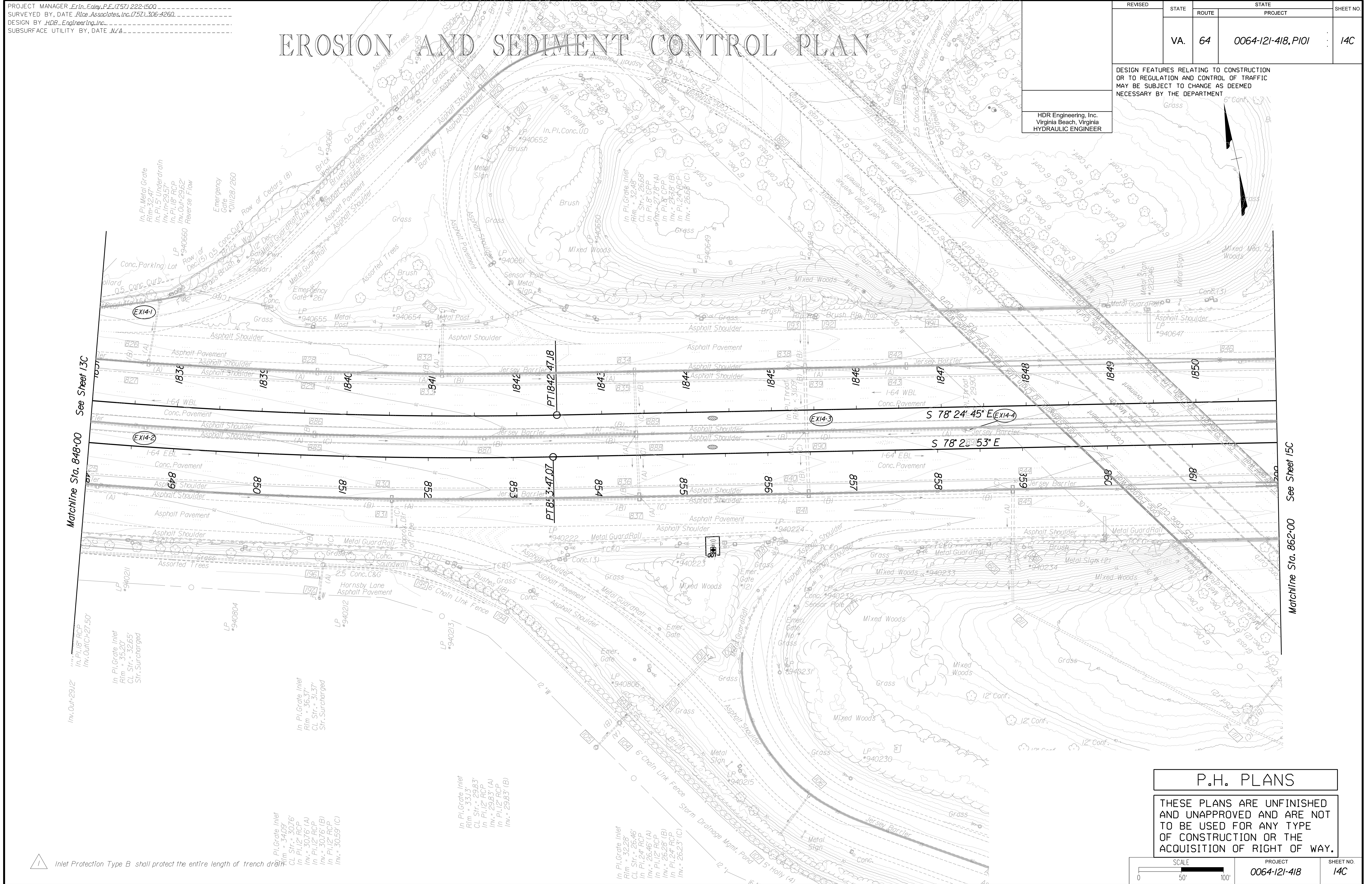
PROJECT MANAGER: *Erin Foley, P.E.* (757) 222-1500
SURVEYED BY, DATE: *Rico Associates, Inc.* (757) 306-4260
DESIGN BY: *HDR Engineering, Inc.*
SUBSURFACE UTILITY BY DATE: *N/A*

EROSION AND SEDIMENT CONTROL PLAN

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	64		0064-121-418, P101	14C

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER



Matchline Sta. 848-00 See Sheet 13C

Matchline Sta. 862-00 See Sheet 15C

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

SCALE 0 50 100'	PROJECT 0064-121-418	SHEET NO. 14C
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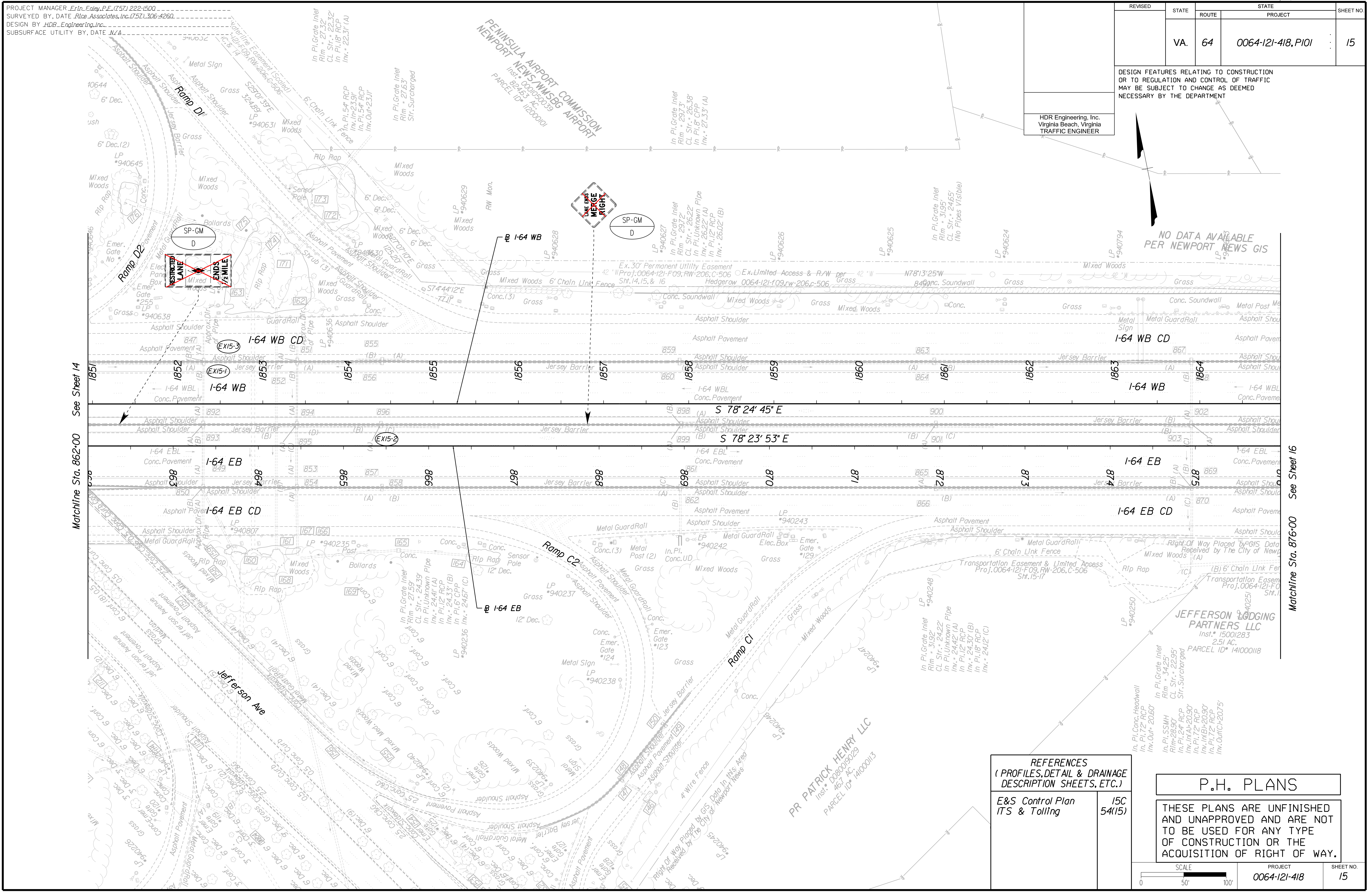
PROJECT MANAGER: Erin Eoley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: MZA

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	64		0064-121-418, P101	15

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER

NO DATA AVAILABLE PER NEWPORT NEWS GIS



Matchline Sta. 862-00 See Sheet 14

Matchline Sta. 876-00 See Sheet 16

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

E&S Control Plan ITS & Tolling 15C 54(15)

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

SCALE 0 50 100'	PROJECT 0064-121-418	SHEET NO. 15
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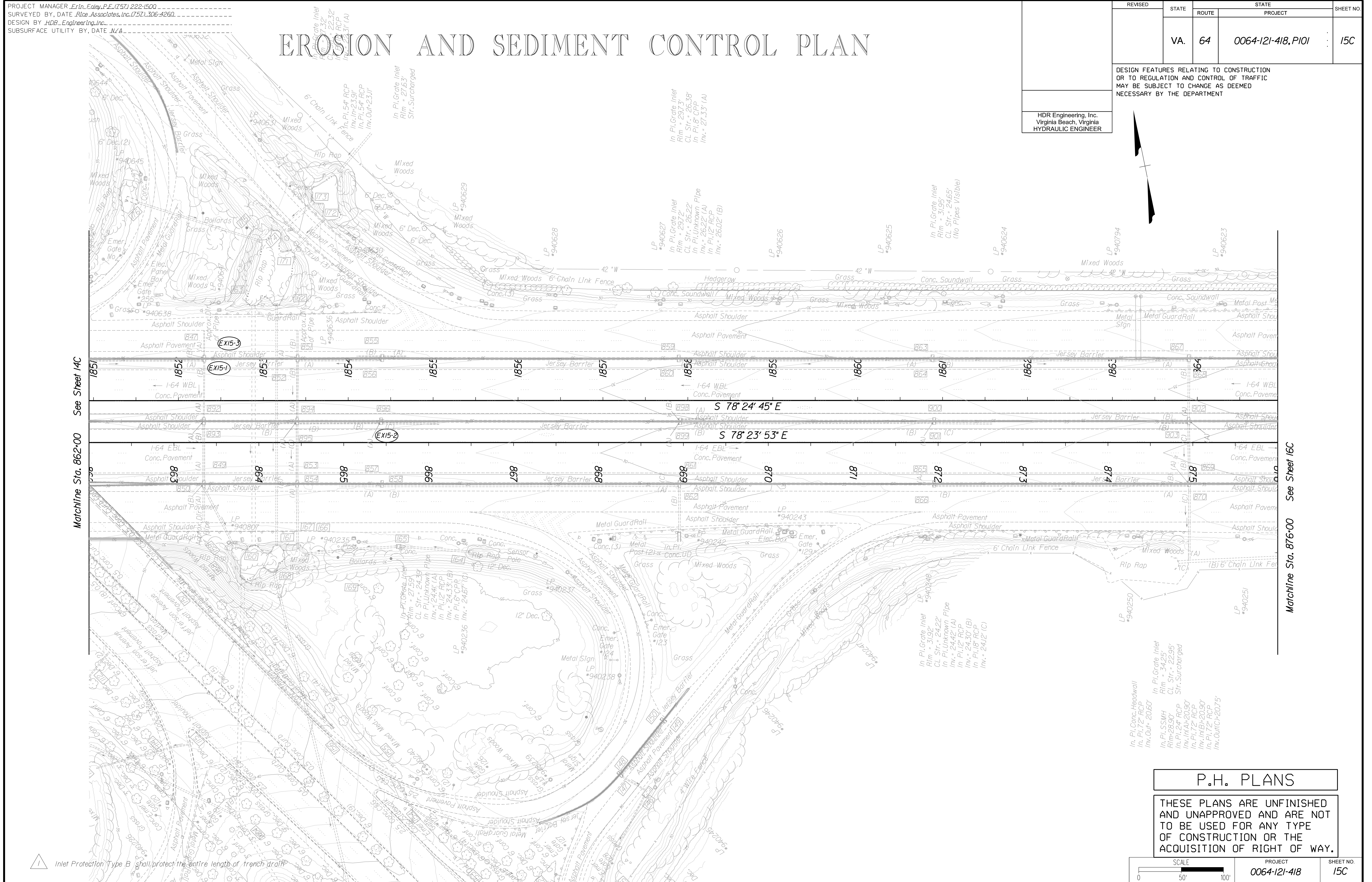
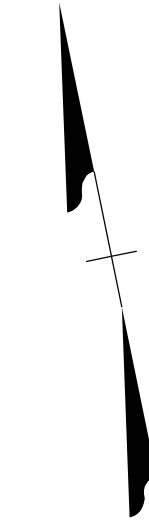
PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineer/Inc.
SUBSURFACE UTILITY BY, DATE: MZA

EROSION AND SEDIMENT CONTROL PLAN

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	64		0064-121-418, P101	15C

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER



P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

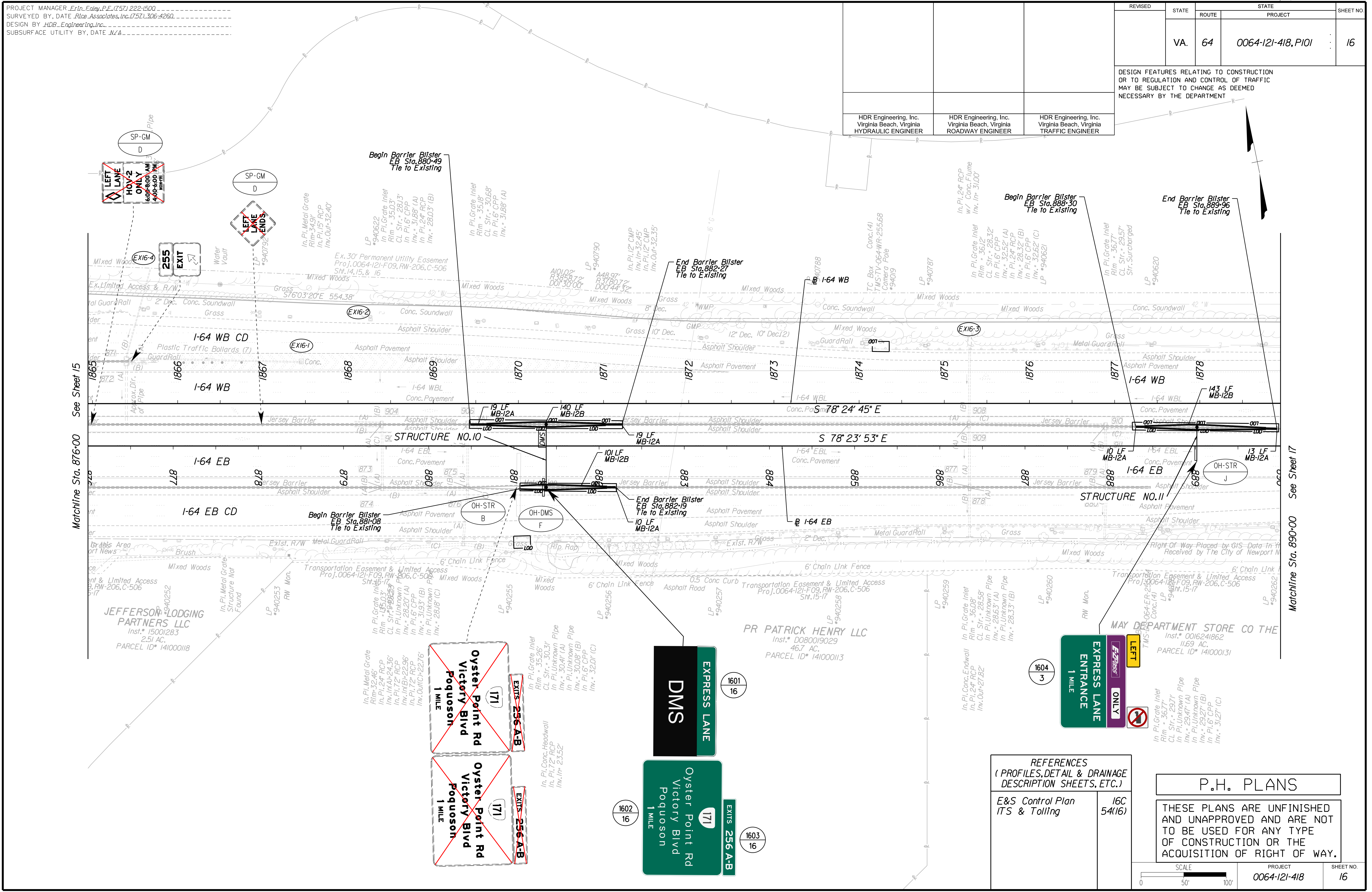
Inlet Protection Type B shall protect the entire length of trench drain

PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY: DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineering, Inc.
SUBSURFACE UTILITY BY: DATE: MZA

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	64		0064-121-418, P101	16

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc. Virginia Beach, Virginia HYDRAULIC ENGINEER	HDR Engineering, Inc. Virginia Beach, Virginia ROADWAY ENGINEER	HDR Engineering, Inc. Virginia Beach, Virginia TRAFFIC ENGINEER
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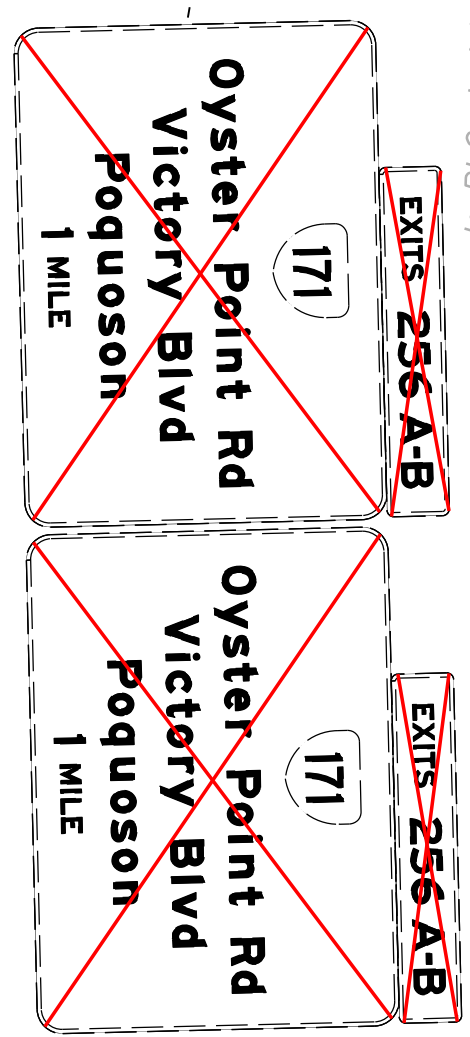
Matchline Sta. 876+00 See Sheet 15

Matchline Sta. 890+00 See Sheet 17

JEFFERSON LODGING PARTNERS LLC
Inst.* 15001283
2.51 AC.
PARCEL ID* 141000118

PR PATRICK HENRY LLC
Inst.* 0080019029
46.7 AC.
PARCEL ID* 141000113

MAY DEPARTMENT STORE CO THE
Inst.* 0016241862
11.69 AC.
PARCEL ID* 141000131



REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

E&S Control Plan ITS & Tolling 16C 54(16)

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

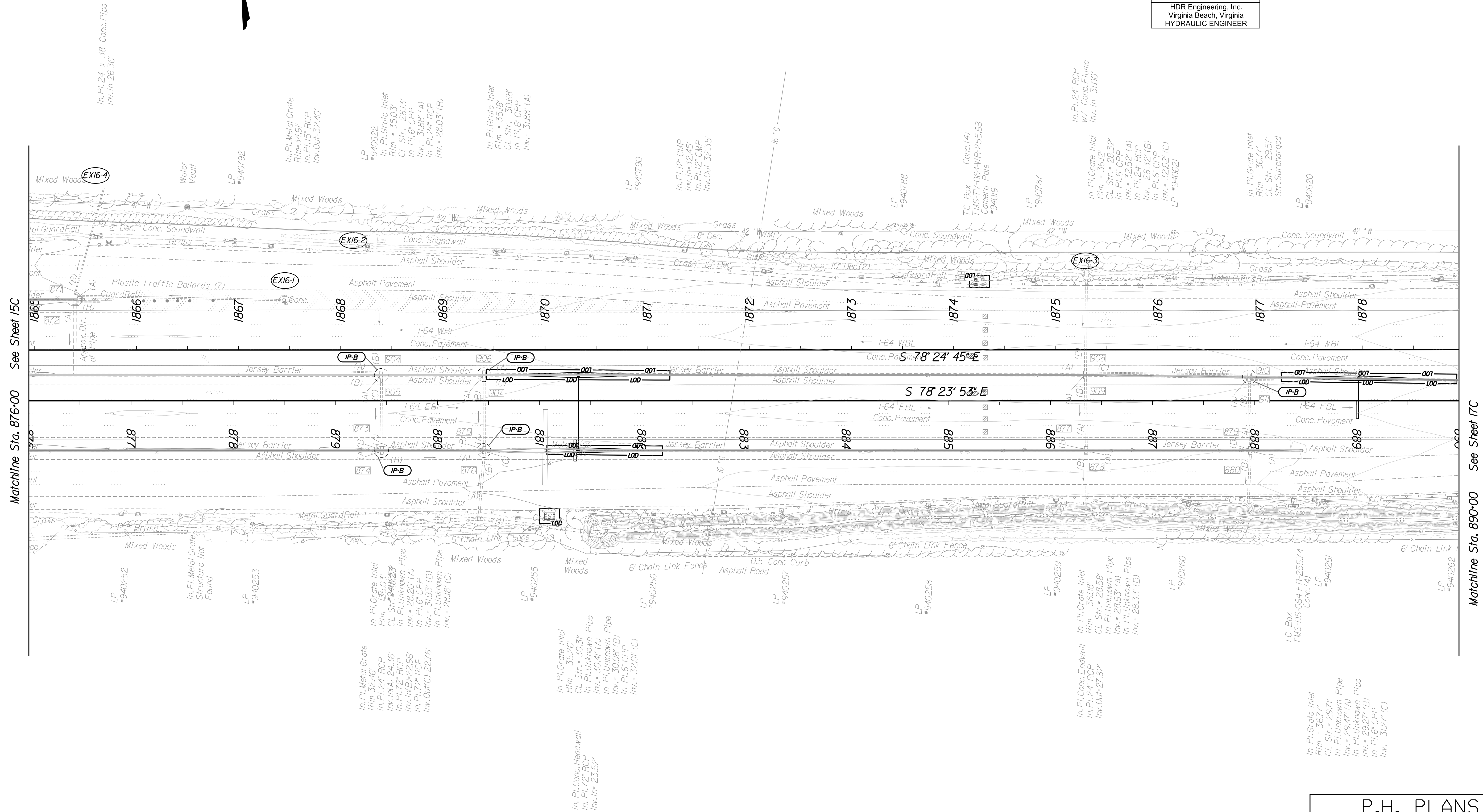
PROJECT MANAGER: ErIn_Eoley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice_Associates, Inc. (757) 306-4260
DESIGN BY: HDR_Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: N/A

EROSION AND SEDIMENT CONTROL PLAN

REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA.	64	0064-121-418, P101	16C

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER



P.H. PLANS
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

1 Inlet Protection Type B shall protect the entire length of trench drain

PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY: DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineer Inc.
SUBSURFACE UTILITY BY: DATE: N/A

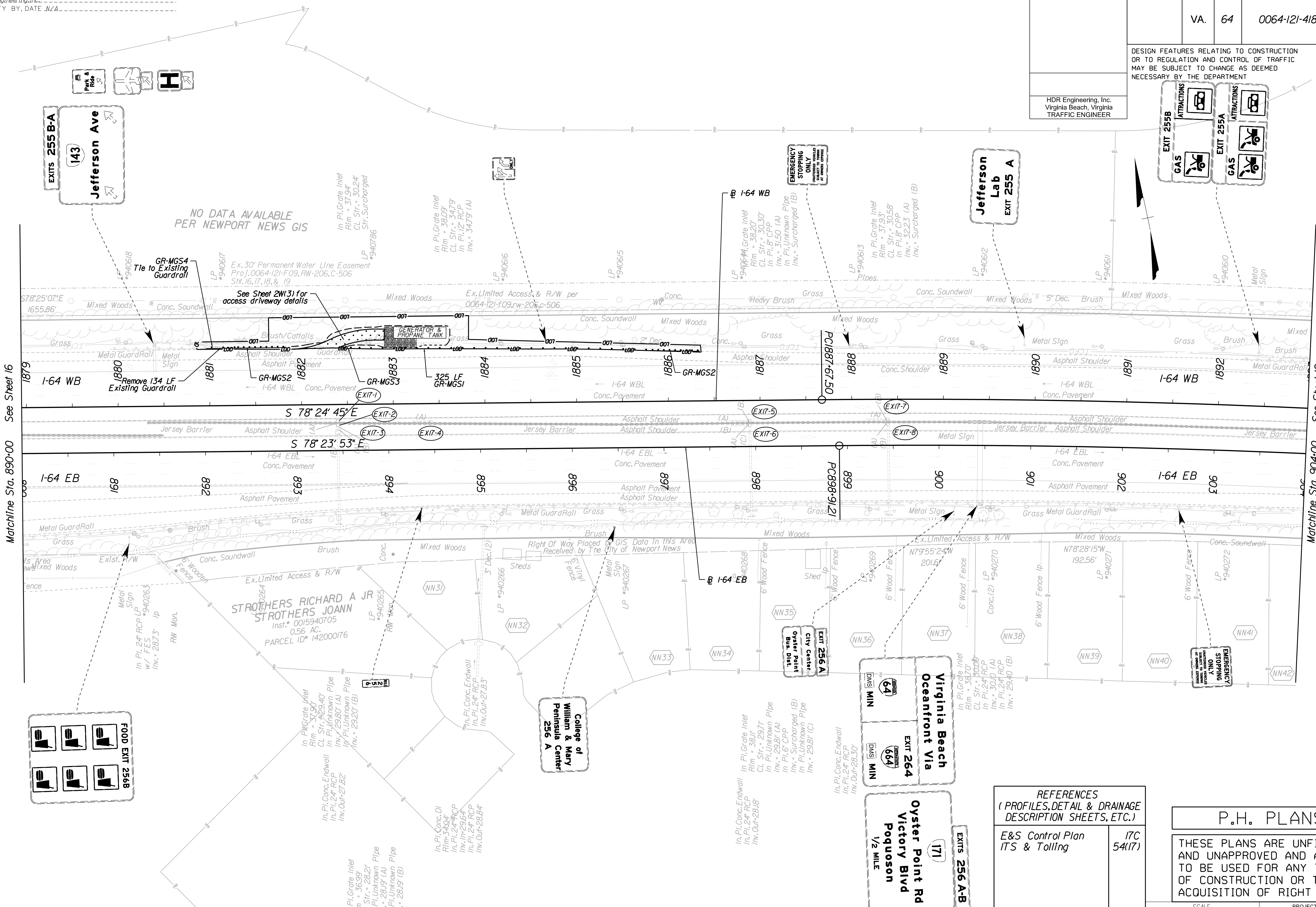
REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	64		0064-121-418, P101	17

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER

EXIT 255B
ATTRACTIONS
GAS

EXIT 255A
ATTRACTIONS
GAS



Matchline Sta. 890-00 See Sheet 16

Matchline Sta. 904-00 See Sheet 18

FOOD EXIT 256B

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

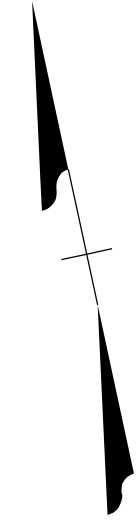
E&S Control Plan ITS & Tolling ITC 54(17)

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROJECT MANAGER: *Erin Eoley, P.E.* (757) 222-1500
SURVEYED BY, DATE: *Rhee Associates, Inc.* (757) 306-4260
DESIGN BY: *HDR, Engineering, Inc.*
SUBSURFACE UTILITY BY, DATE: *N/A*

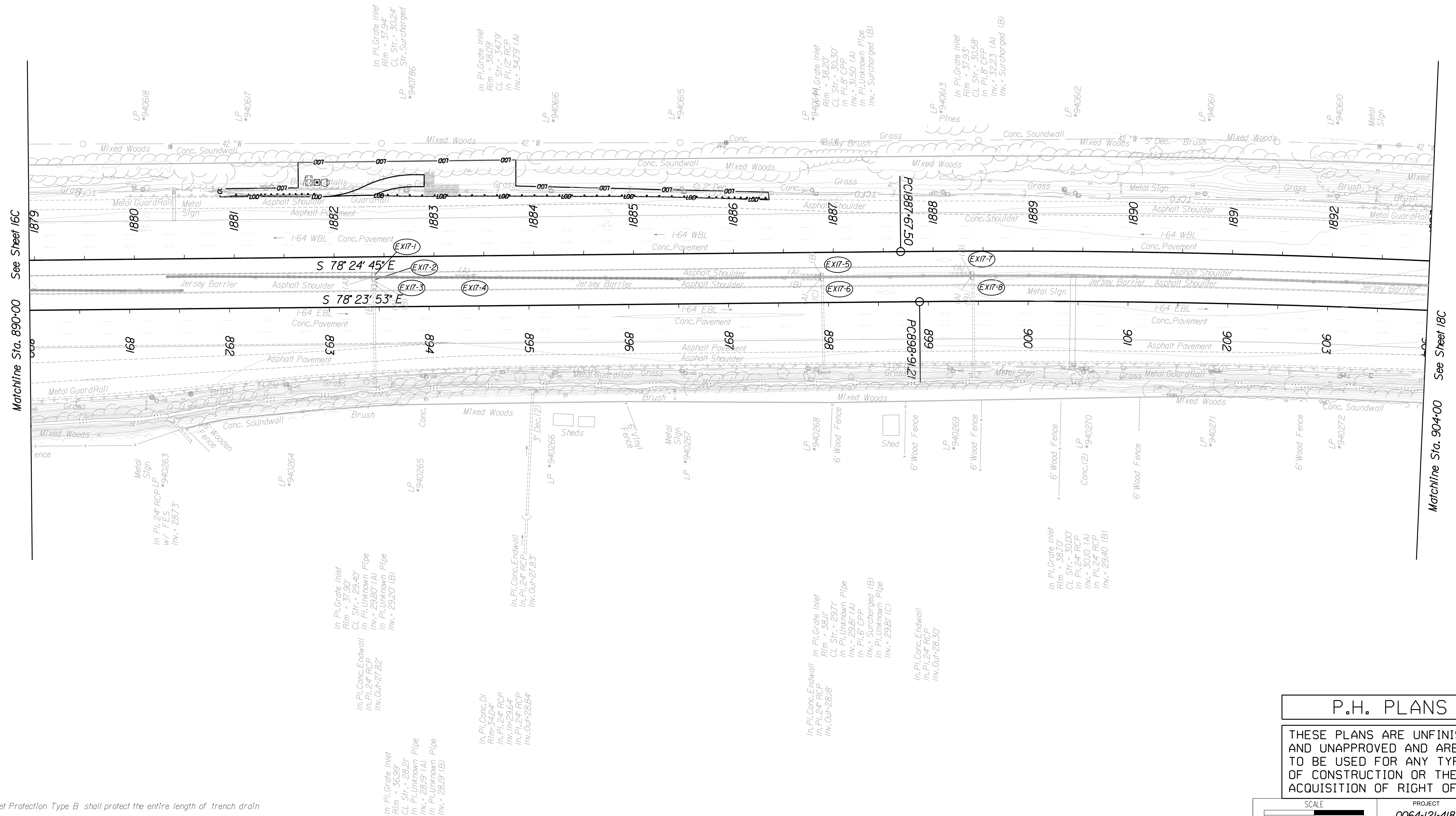
EROSION AND SEDIMENT CONTROL PLAN



REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA.	64	0064-121-418, P101	17C

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER



Inlet Protection Type B shall protect the entire length of trench drain

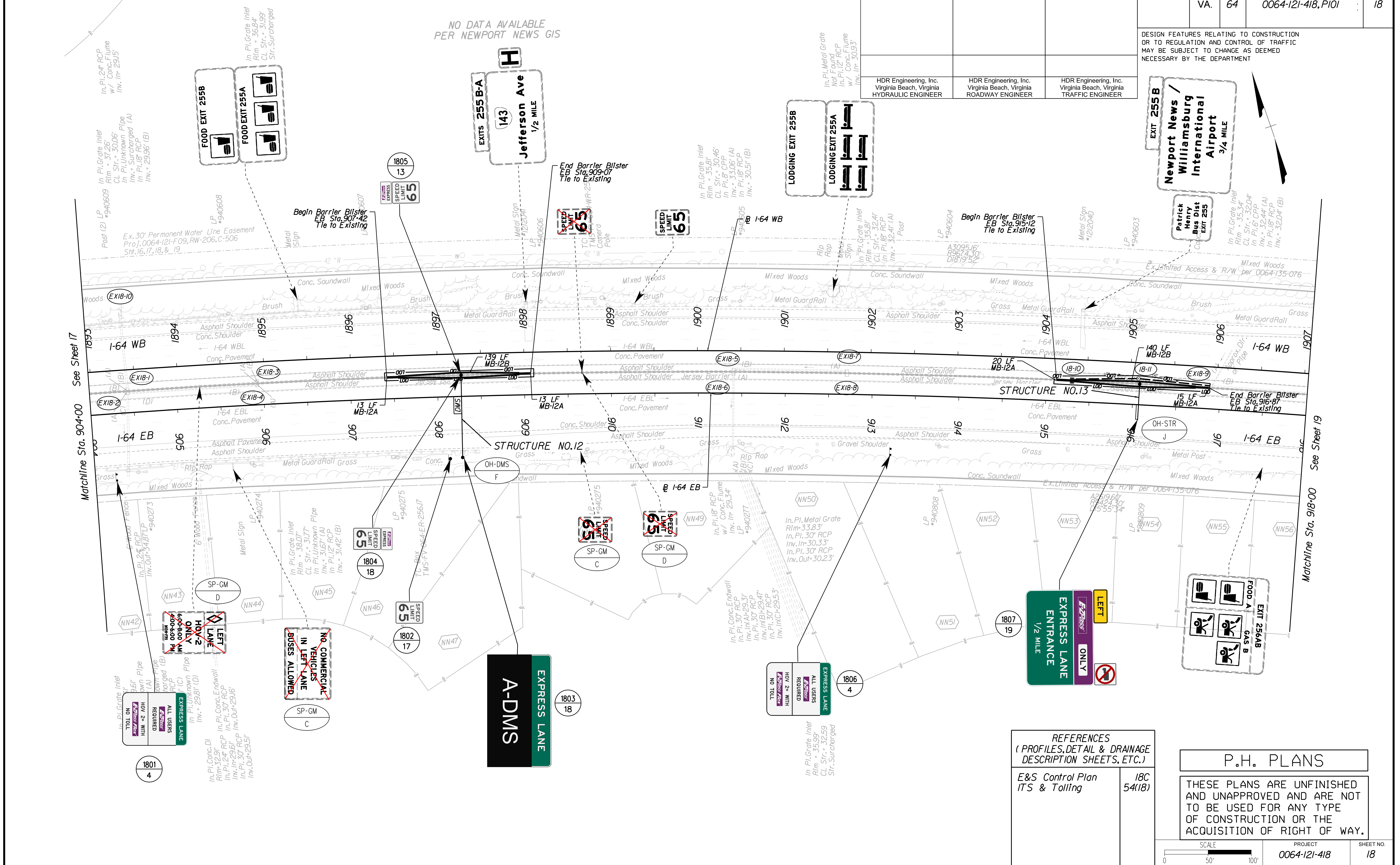
P.H. PLANS
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

SCALE 0 50 100'	PROJECT 0064-121-418	SHEET NO. 17C
--------------------	-------------------------	------------------

PROJECT MANAGER: ErIn_Eoley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rhee_Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineer/Inc.
SUBSURFACE UTILITY BY, DATE: MZA

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	64		0064-121-418, P101	18

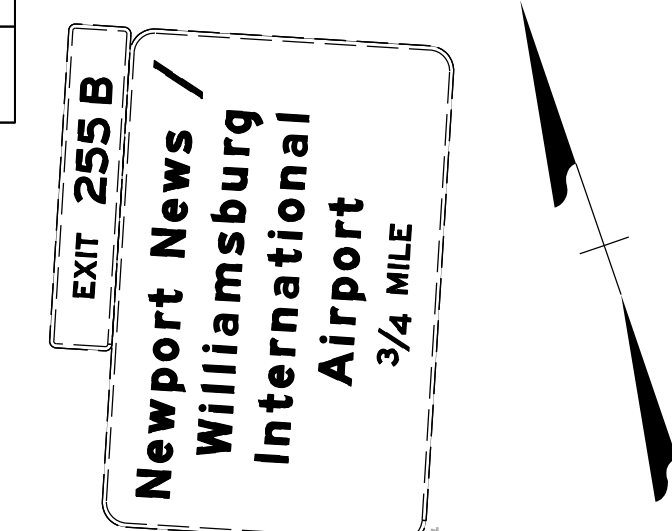
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



HDR Engineering, Inc. Virginia Beach, Virginia
HYDRAULIC ENGINEER

HDR Engineering, Inc. Virginia Beach, Virginia
ROADWAY ENGINEER

HDR Engineering, Inc. Virginia Beach, Virginia
TRAFFIC ENGINEER



REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

E&S Control Plan ITS & Tolling 18C 54(18)

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

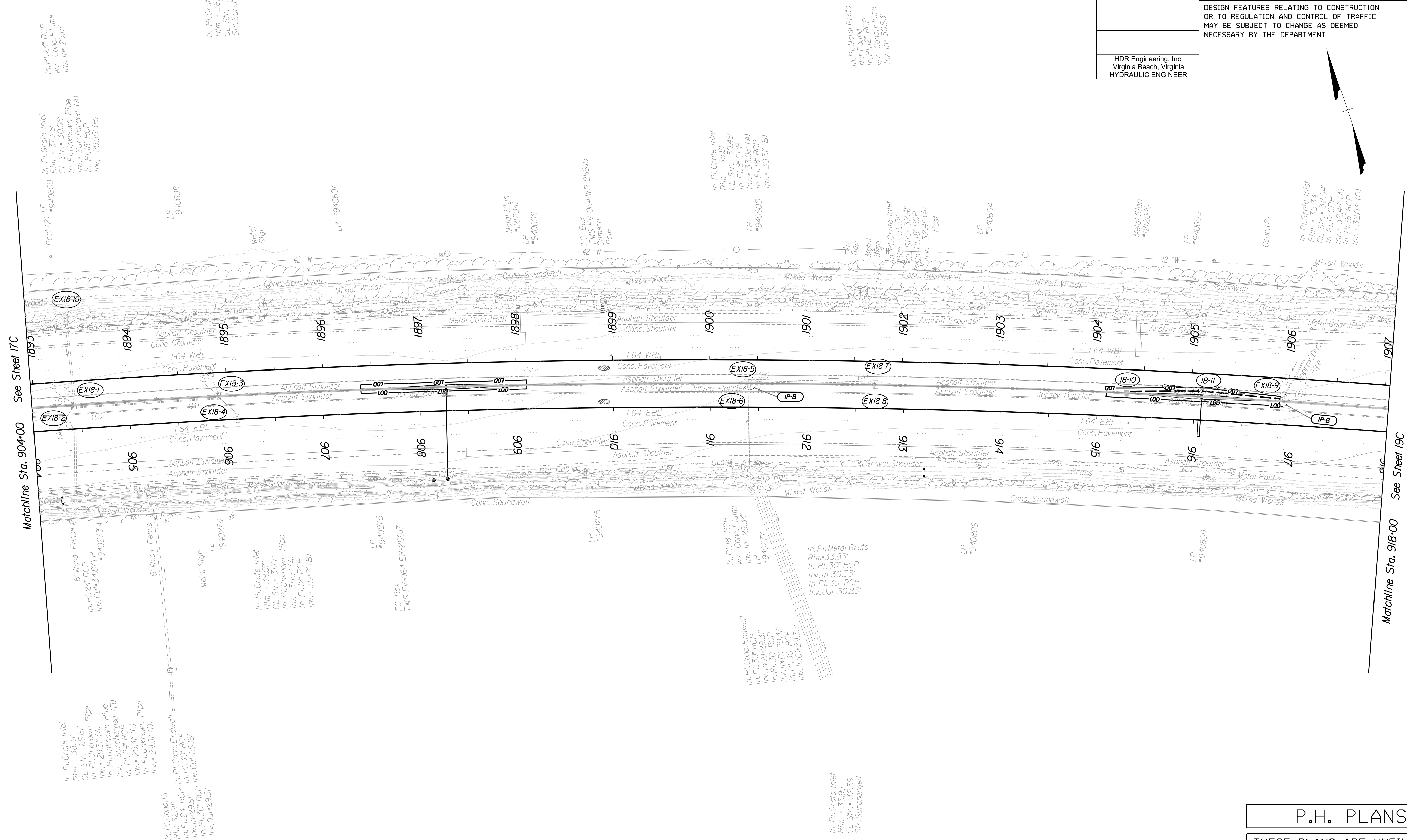
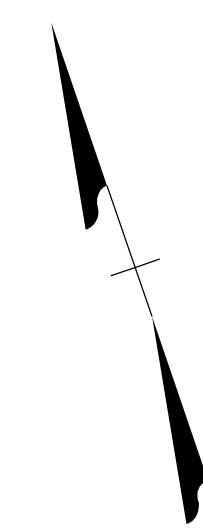
PROJECT MANAGER: ErIn_Eoley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rhee_Associates, Inc. (757) 306-4260
DESIGN BY: HDR_Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: MZA

EROSION AND SEDIMENT CONTROL PLAN

REVISED	STATE	STATE		SHEET NO.
	ROUTE	PROJECT		
	VA.	64	0064-121-418, P101	18C

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER



P.H. PLANS
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

1 Inlet Protection Type B shall protect the entire length of trench drain

PROJECT MANAGER: ErIn_Eoley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rhee_Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineer/Ing, Inc.
SUBSURFACE UTILITY BY, DATE: N/A

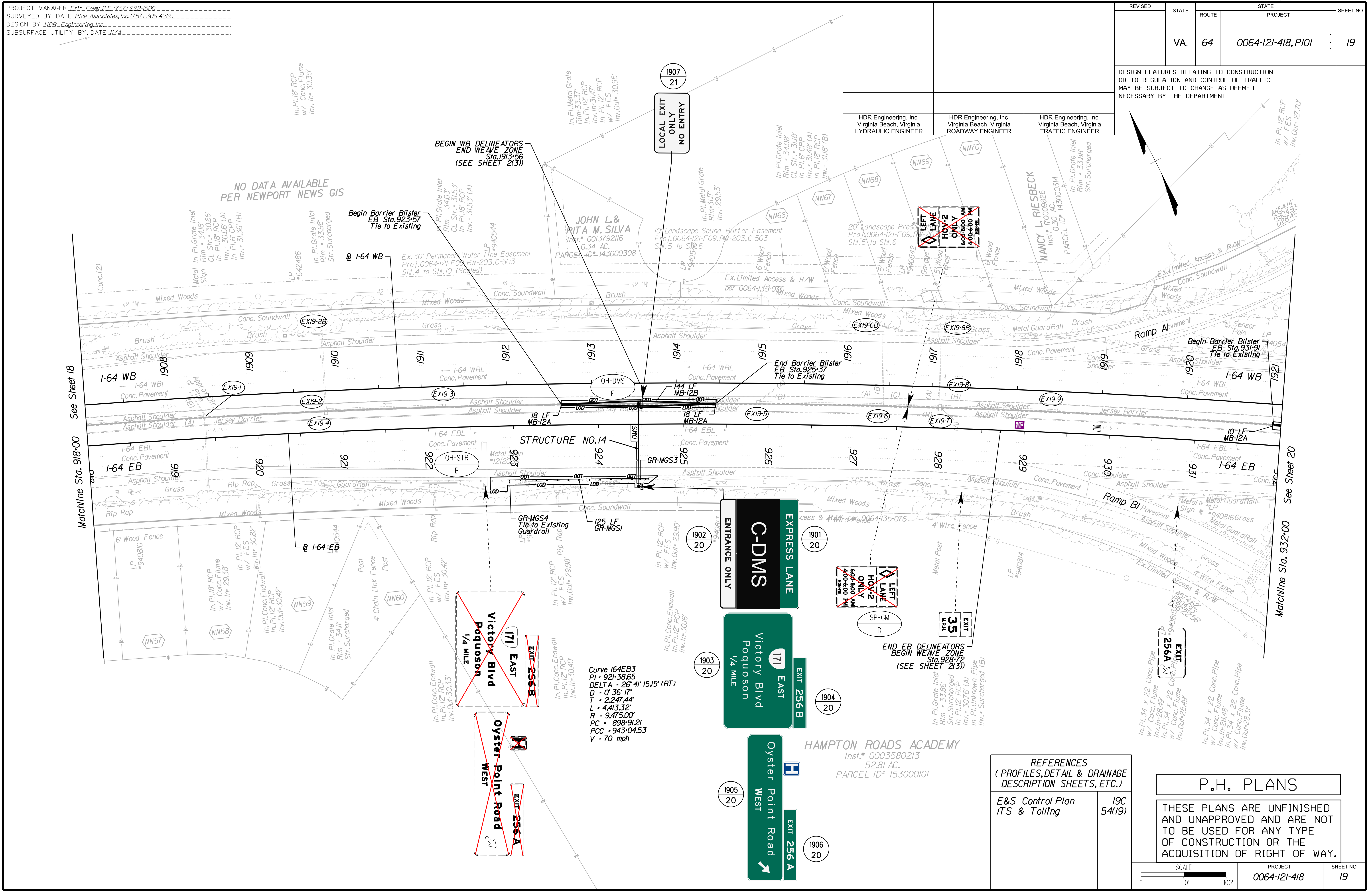
REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	64		0064-121-418, P101	19

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER

HDR Engineering, Inc.
Virginia Beach, Virginia
ROADWAY ENGINEER

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER



REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

E&S Control Plan ITS & Tolling 19C 54(19)

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

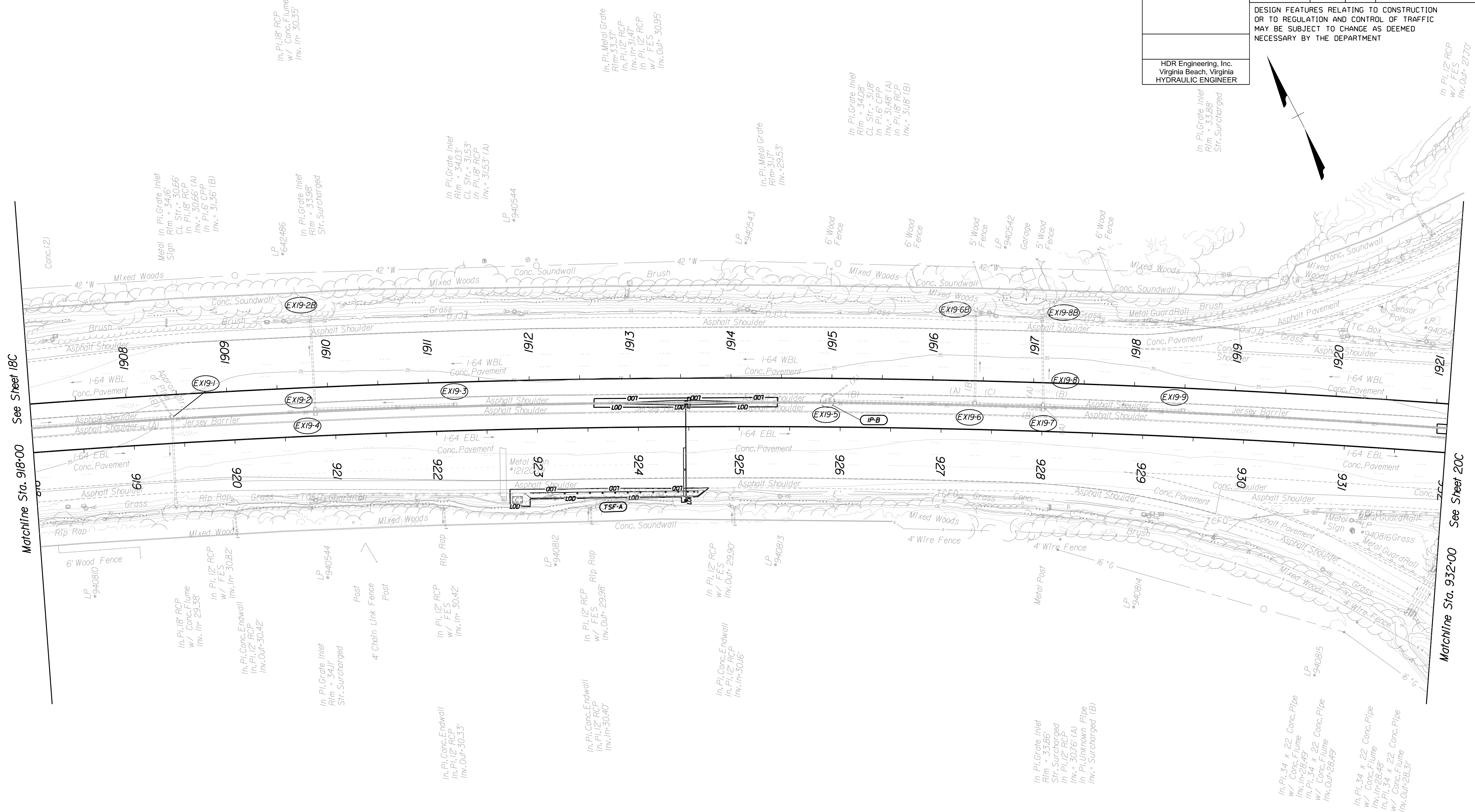
PROJECT MANAGER: ErIn_Eoley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rhee_Associates, Inc. (757) 306-4260
DESIGN BY: HDB_Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: N/A

EROSION AND SEDIMENT CONTROL PLAN

REVISED	STATE	ROUTE	STATE		SHEET NO.
			PROJECT		
	VA.	64	0064-121-418, P101		19C

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER



Matchline Sta. 918+00 See Sheet 18C

Matchline Sta. 932+00 See Sheet 20C

P.H. PLANS
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

Inlet Protection Type B shall protect the entire length of trench drain

PROJECT MANAGER: Erin Foley, P.E. (757) 222-1500
SURVEYED BY: DATE: Rhea Associates, Inc. (757) 306-4260
DESIGN BY: HDR Engineering, Inc.
SUBSURFACE UTILITY BY: DATE: MZA

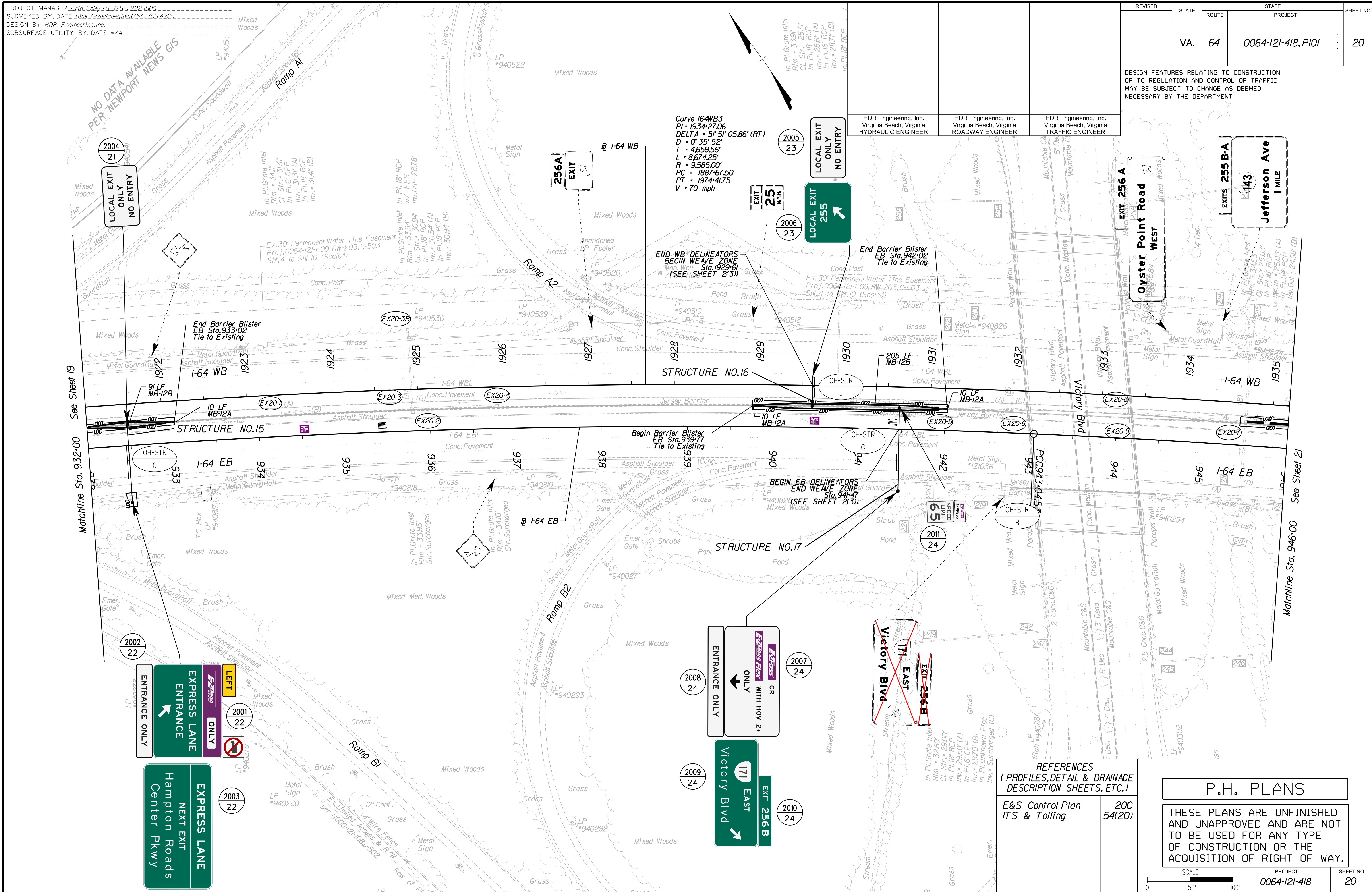
REVISION	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	20

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER

HDR Engineering, Inc.
Virginia Beach, Virginia
ROADWAY ENGINEER

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER



REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

E&S Control Plan ITS & Tolling 20C 54(20)

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

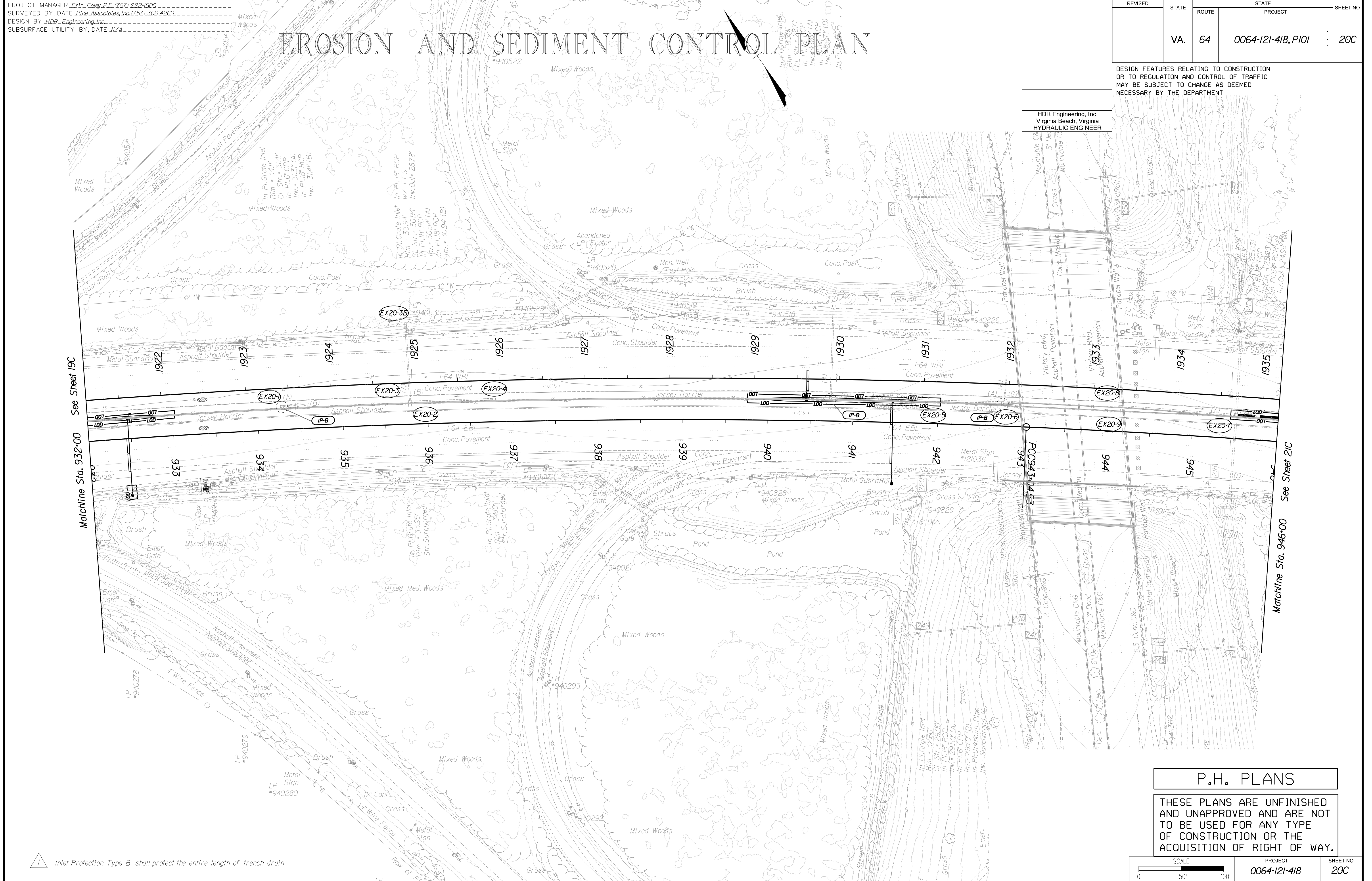
PROJECT MANAGER: Erin Eoley, P.E. (757) 222-1500
SURVEYED BY: DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDR Engineering, Inc.
SUBSURFACE UTILITY BY: DATE: N/A

EROSION AND SEDIMENT CONTROL PLAN

HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	64		0064-121-418, P101	20C

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



Inlet Protection Type B shall protect the entire length of trench drain

P.H. PLANS
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY: DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineering, Inc.
SUBSURFACE UTILITY BY: DATE: MZA

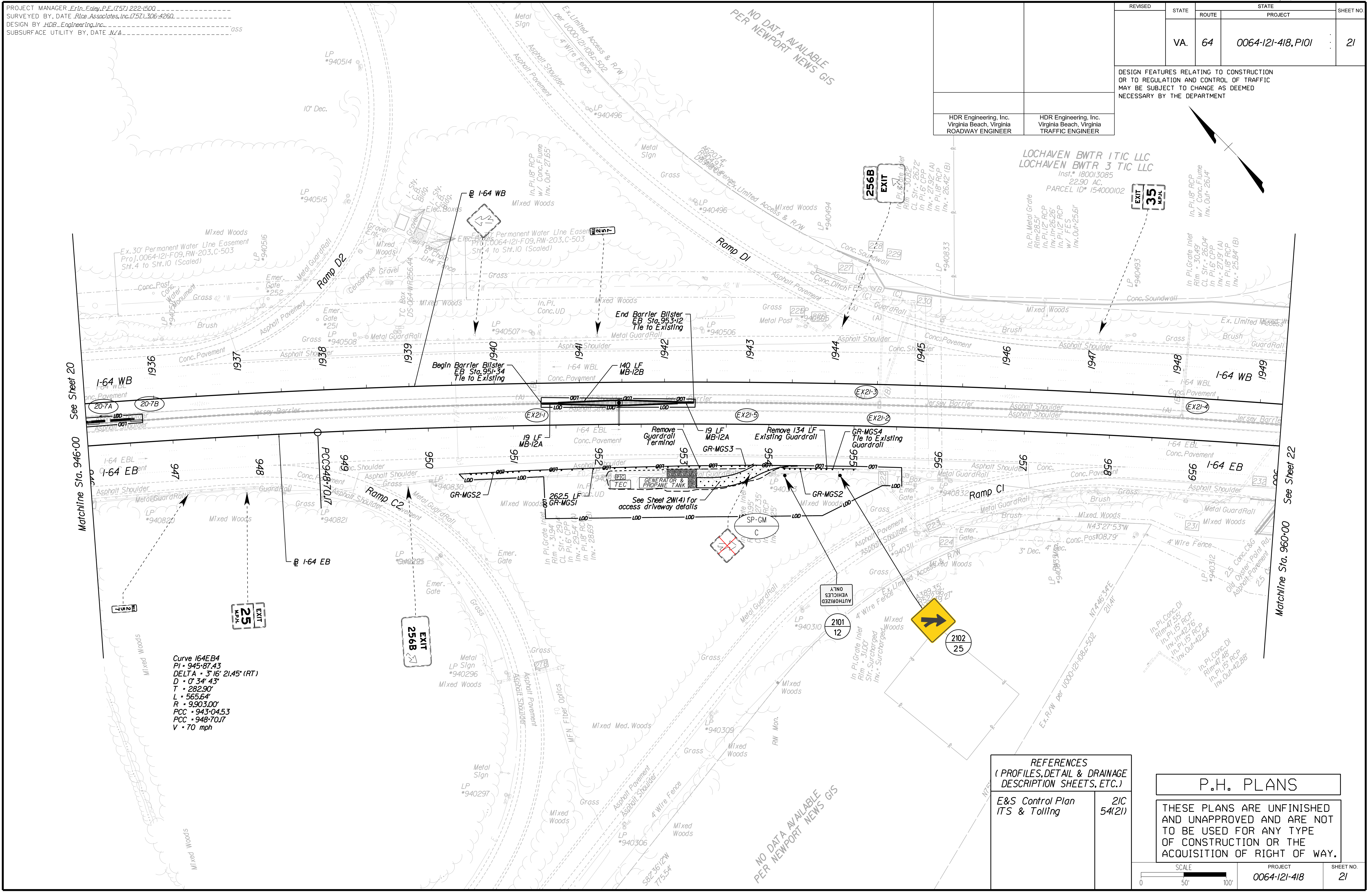
REVISION	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	21

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
ROADWAY ENGINEER

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER

LOCHAVEN BWTR 1 TIC LLC
LOCHAVEN BWTR 3 TIC LLC
Inst # 180013085
22.90 AC.
PARCEL ID # 154000102



Curve 164EB4
PI = 945+87.43
DELTA = 3° 16' 21.45" (RT)
D = 0° 34' 43"
T = 282.90'
L = 565.64'
R = 9903.00'
PCC = 943+04.53
PCC = 948+70.17
V = 70 mph

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

E&S Control Plan ITS & Tolling 21C 54(21)

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

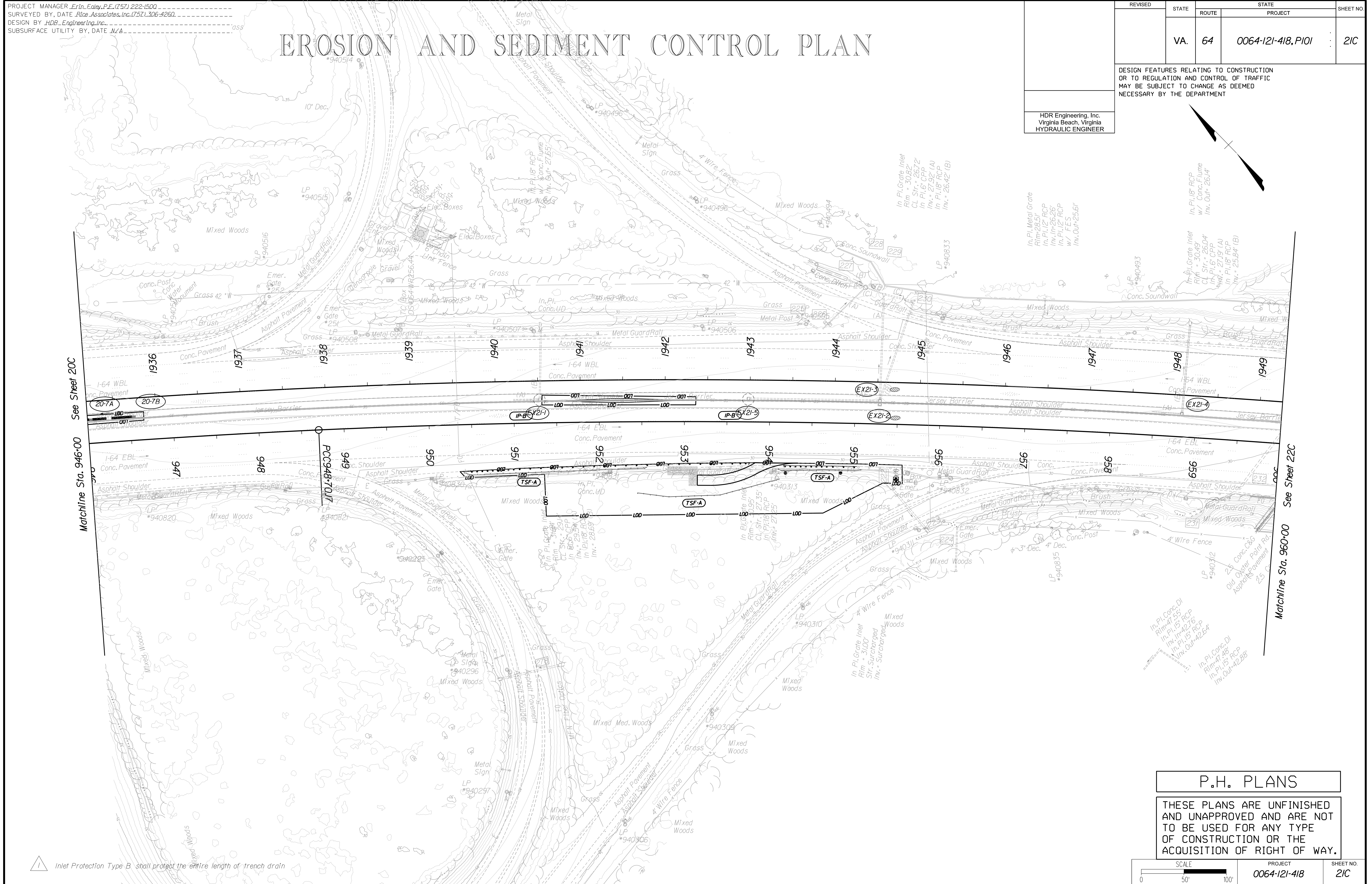
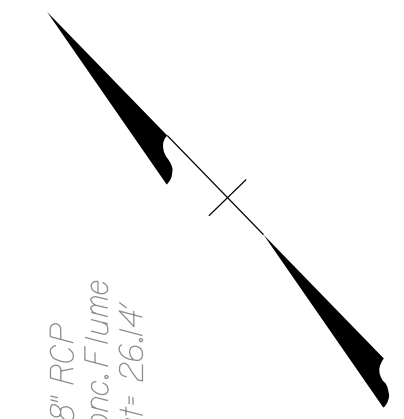
PROJECT MANAGER: Erin Eoley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineer/Ing, Inc.
SUBSURFACE UTILITY BY, DATE: MZA

EROSION AND SEDIMENT CONTROL PLAN

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	64		0064-121-418, P101	21C

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER



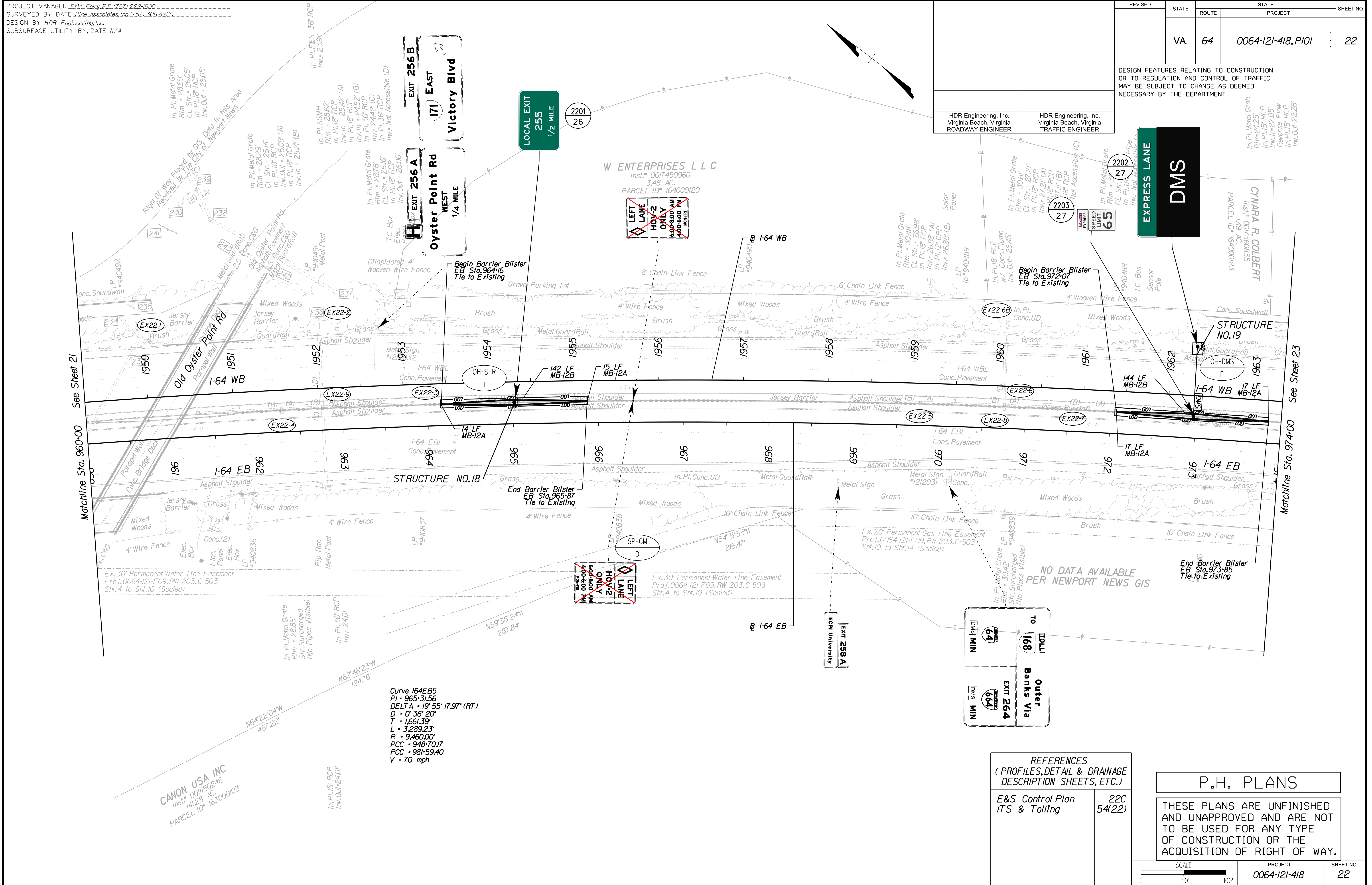
Inlet Protection Type B shall protect the entire length of trench drain

P.H. PLANS
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROJECT MANAGER: *Erin Ealey, P.E.* (757) 222-1500
SURVEYED BY, DATE: *Rhee Associates, Inc.* (757) 306-4260
DESIGN BY: *HDR, Engineer Inc.*
SUBSURFACE UTILITY BY, DATE: *MZA*

REVISION	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	22

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



Matchline Sta. 960+00 See Sheet 21

Matchline Sta. 974+00 See Sheet 23

CANON USA INC
Inst. # 0011150246
141.28 AC
PARCEL ID# 163000103

Curve 164EB5
PI • 965+31.56
DELTA • 19° 55' 17.97" (RT)
D • 0' 36" 20"
T • 1661.39'
L • 3289.23'
R • 9,460.00'
PCC • 948-7017
PCC • 981-59.40
V • 70 mph

DMSI MIN	894	TO	168	TOTAL

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)	
E&S Control Plan ITS & Tolling	22C 54(22)

P.H. PLANS
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

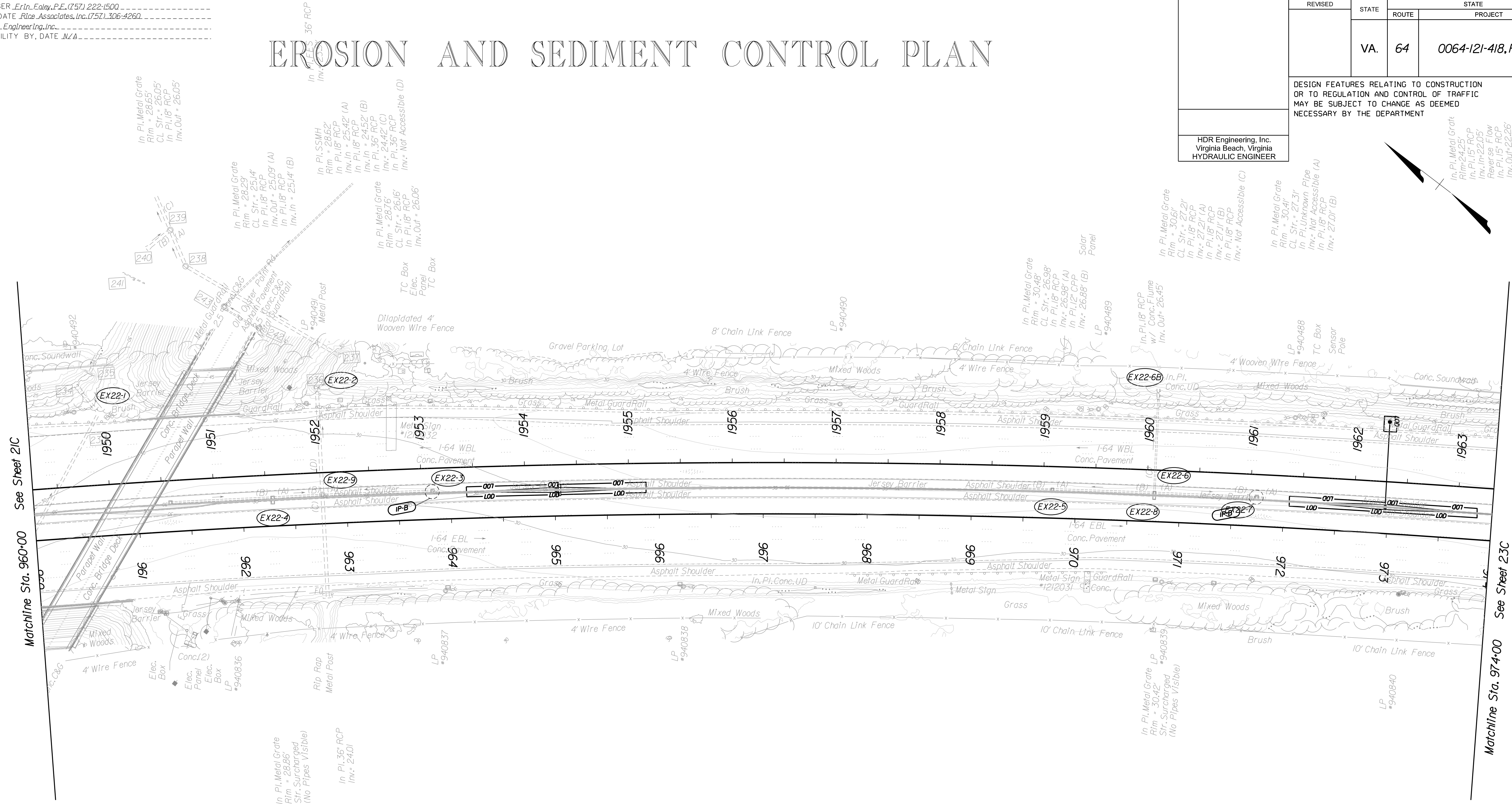
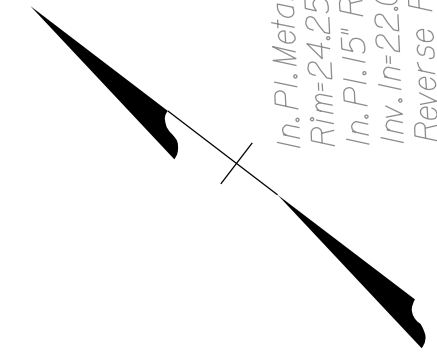
PROJECT MANAGER: ErIn_Eoley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rhee_Associates, Inc. (757) 306-4260
DESIGN BY: HDR_Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: MZA

EROSION AND SEDIMENT CONTROL PLAN

REVISED	STATE	STATE		SHEET NO.
	ROUTE	PROJECT		
	VA.	64	0064-121-418, P101	22C

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER



Matchline Sta. 960+00 See Sheet 21C

Matchline Sta. 974+00 See Sheet 23C

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

1 Inlet Protection Type B shall protect the entire length of trench drain

PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineer/Insp. Inc.
SUBSURFACE UTILITY BY: DATE: N/A

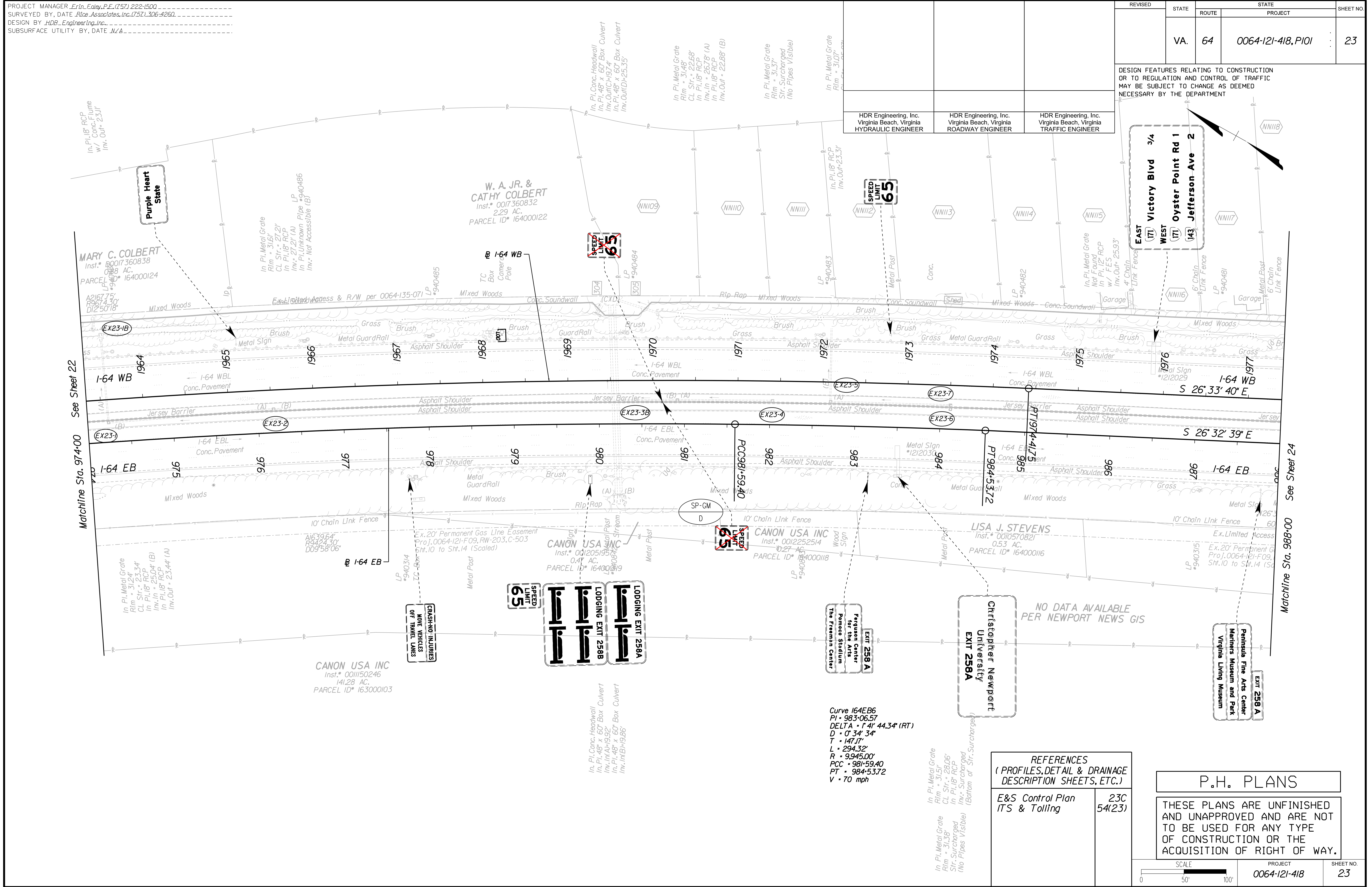
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	23

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER

HDR Engineering, Inc.
Virginia Beach, Virginia
ROADWAY ENGINEER

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER



REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

E&S Control Plan ITS & Tolling 23C 54(23)

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

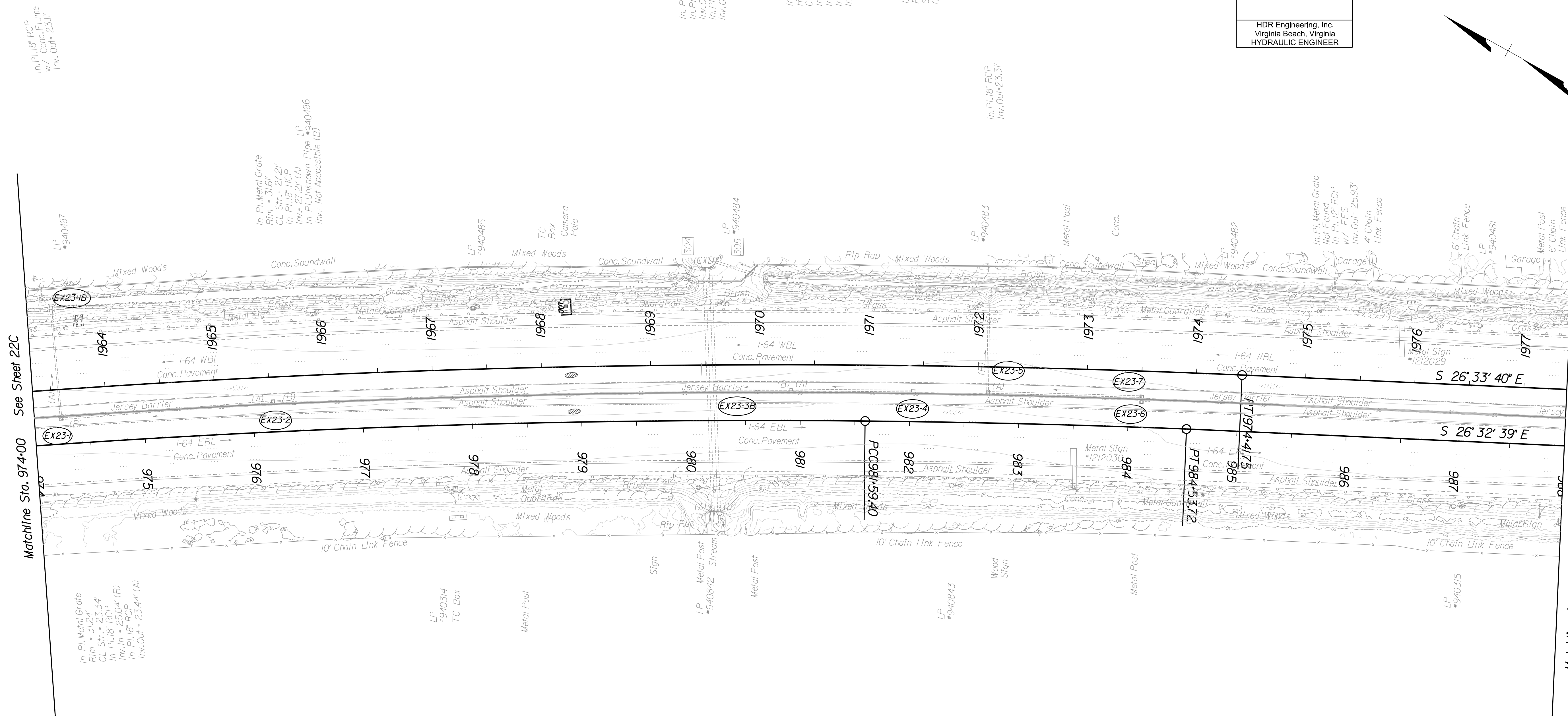
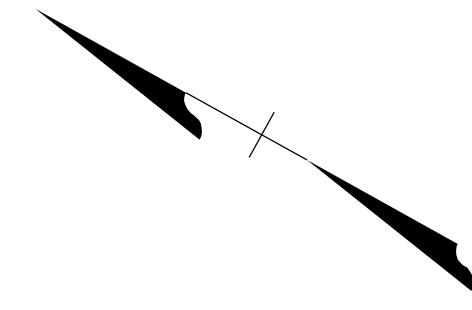
PROJECT MANAGER: ErIn_Eoley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice_Associates, Inc. (757) 306-4260
DESIGN BY: HDR_Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: N/A

EROSION AND SEDIMENT CONTROL PLAN

REVISED	STATE	STATE		SHEET NO.
	ROUTE	PROJECT		
	VA.	64	0064-121-418, P101	23C

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER



Matchline Sta. 974+00 See Sheet 22C

Matchline Sta. 988+00 See Sheet 24C

In P.I. Metal Grate
Rim = 31.24'
CL Str. = 23.34'
In P.I. 18" RCP
Inv. In = 23.04' (B)
Inv. In = 23.44' (A)

In P.I. Metal Grate
Rim = 31.61'
CL Str. = 27.21'
In P.I. 18" RCP
Inv. In = 27.21' (A)
LP #940486
Inv. = Not Accessible (B)

In P.I. Conc. Headwall
In P.I. 48" x 60" Box Culvert
Inv. In (A) = 19.92'
Inv. In (B) = 19.86'

In P.I. Metal Grate
Rim = 31.51'
CL Str. = 28.06'
In P.I. 18" RCP
Str. Surcharged
(No Pipes Visible)
(Bottom of Str. Surcharged)

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

Inlet Protection Type B shall protect the entire length of trench drain

PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineer/Planner, Inc.
SUBSURFACE UTILITY BY, DATE: MZA

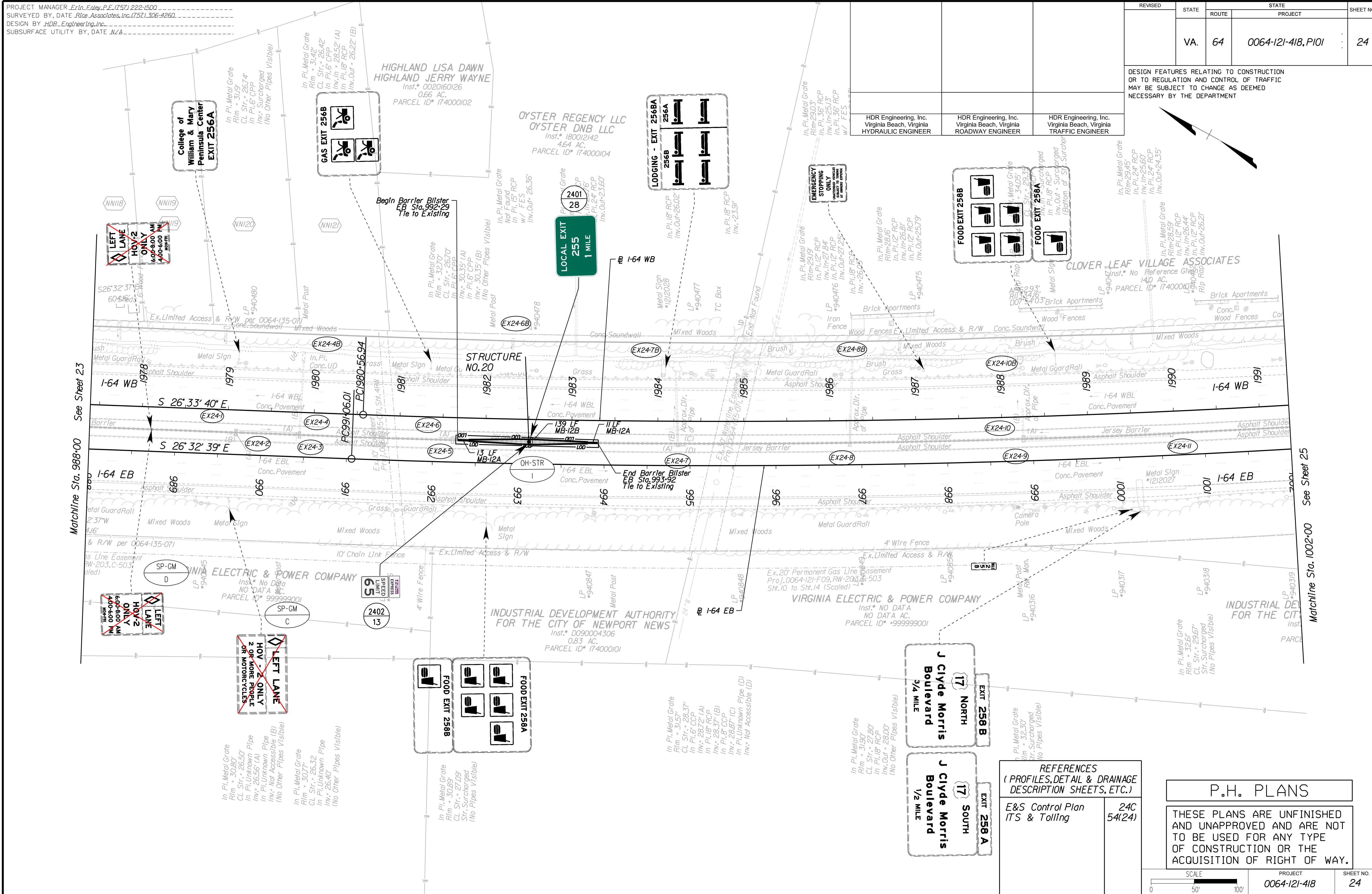
REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	64		0064-121-418, P101	24

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER

HDR Engineering, Inc.
Virginia Beach, Virginia
ROADWAY ENGINEER

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER



REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

E&S Control Plan ITS & Tolling 24C
54(24)

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

SCALE 0 50 100'	PROJECT 0064-121-418	SHEET NO. 24
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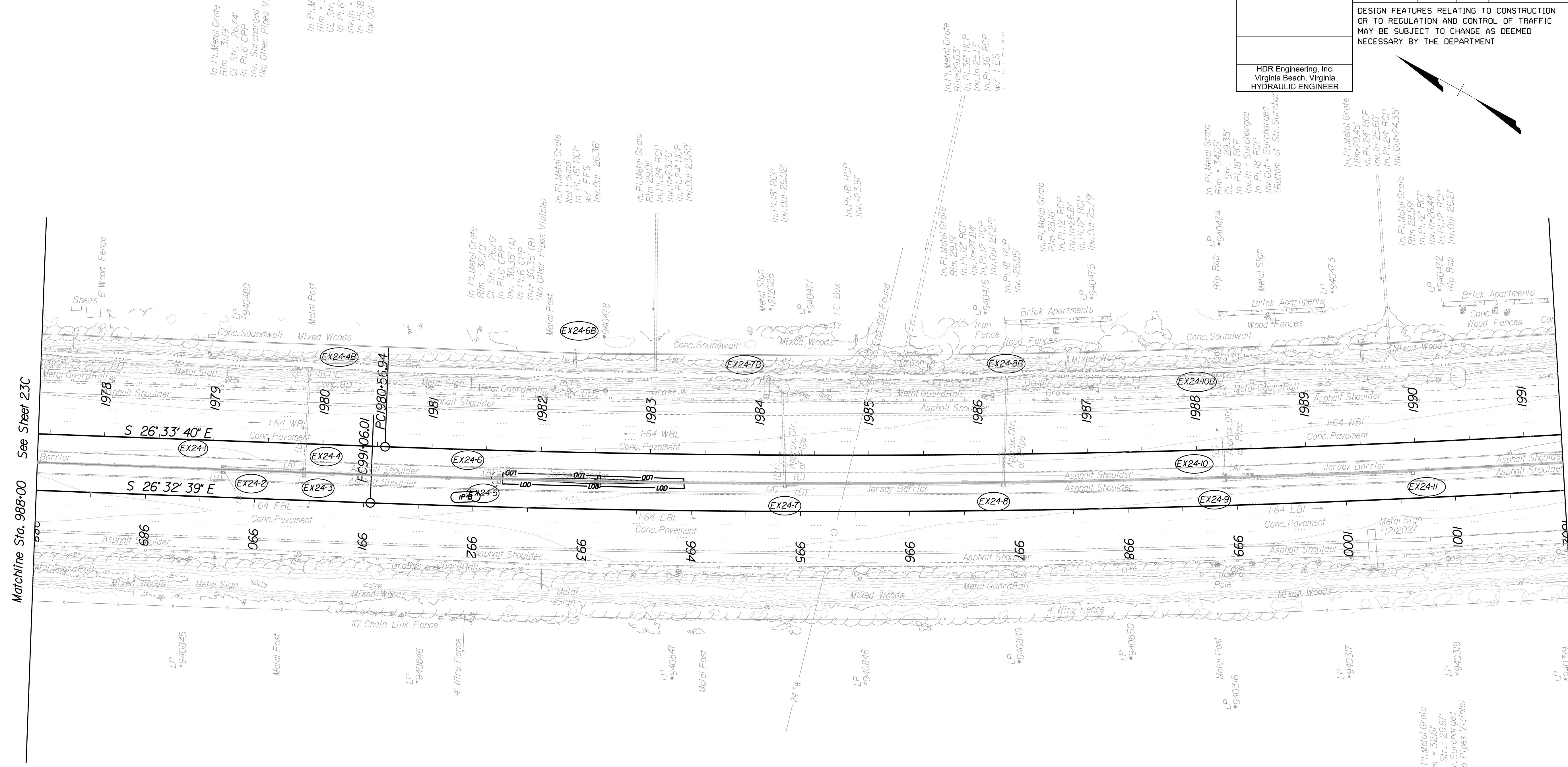
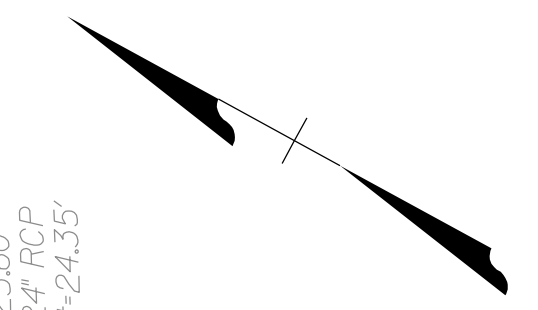
PROJECT MANAGER: ErIn_Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineer/Ing, Inc.
SUBSURFACE UTILITY BY, DATE: MZA

EROSION AND SEDIMENT CONTROL PLAN

REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA.	64	0064-121-418, P101	24C

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER



In P.I. Metal Grate
Rim = 30.80'
CL Str. = 26.50'
In P.I. Unknown Pipe
Inv. = 26.56' (A)
In P.I. Unknown Pipe
Inv. = Not Accessible (B)
(No Other Pipes Visible)

In P.I. Metal Grate
Rim = 30.77'
CL Str. = 26.32'
In P.I. Unknown Pipe
Inv. = 26.40'
(No Other Pipes Visible)

In P.I. Metal Grate
Rim = 30.89'
CL Str. = 27.09'
Str. Surcharged
(No Pipes Visible)

In P.I. Metal Grate
Rim = 31.53'
CL Str. = 28.37'
In P.I. 12\"/>

In P.I. Metal Grate
Rim = 31.90'
CL Str. = 27.80'
In P.I. 18\"/>

In P.I. Metal Grate
Rim = 32.50'
Str. Surcharged
(No Pipes Visible)

P.H. PLANS
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

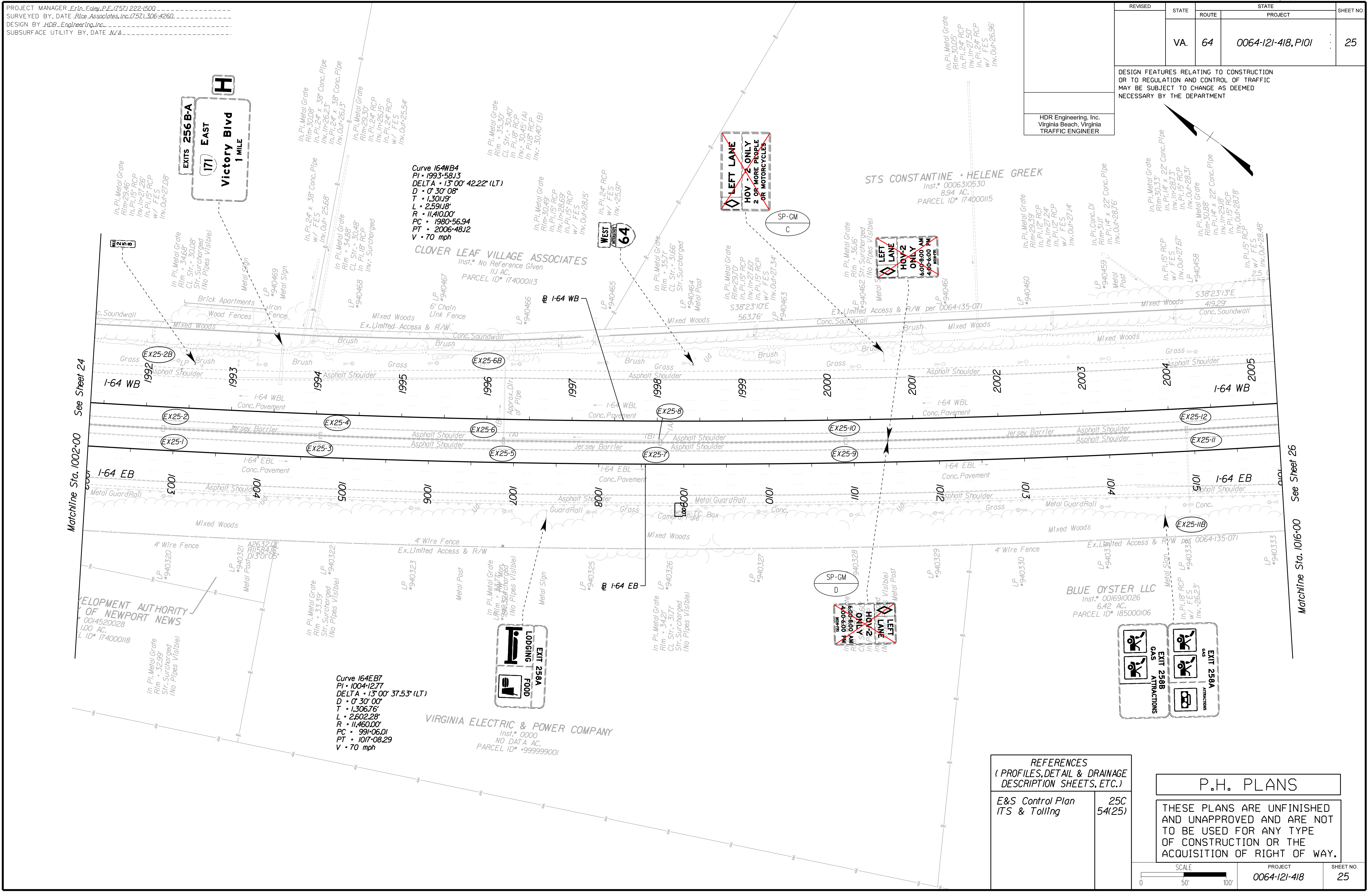
Inlet Protection Type B shall protect the entire length of trench drain

PROJECT MANAGER: ErIn Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineer/Inc.
SUBSURFACE UTILITY BY, DATE: MZA

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	25

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER



Curve 164WB4
PI • 1993+58.13
DELTA • 13° 00' 42.22" (LT)
D • 0' 30' 08"
T • 1.30119'
L • 2.59118'
R • 11,410.00'
PC • 1980+56.94
PT • 2006+46.12
V • 70 mph

CLOVER LEAF VILLAGE ASSOCIATES
Inst. • No Reference Given
11.1 AC.
PARCEL ID* 174000113

Curve 164EB7
PI • 1004+12.77
DELTA • 13° 00' 37.53" (LT)
D • 0' 30' 00"
T • 1.30676'
L • 2.60228'
R • 11,460.00'
PC • 991+06.01
PT • 1017+08.29
V • 70 mph

VIRGINIA ELECTRIC & POWER COMPANY
Inst. • 0000
NO DATA AC.
PARCEL ID* 999999001

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

E&S Control Plan ITS & Tolling 25C 54(25)

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

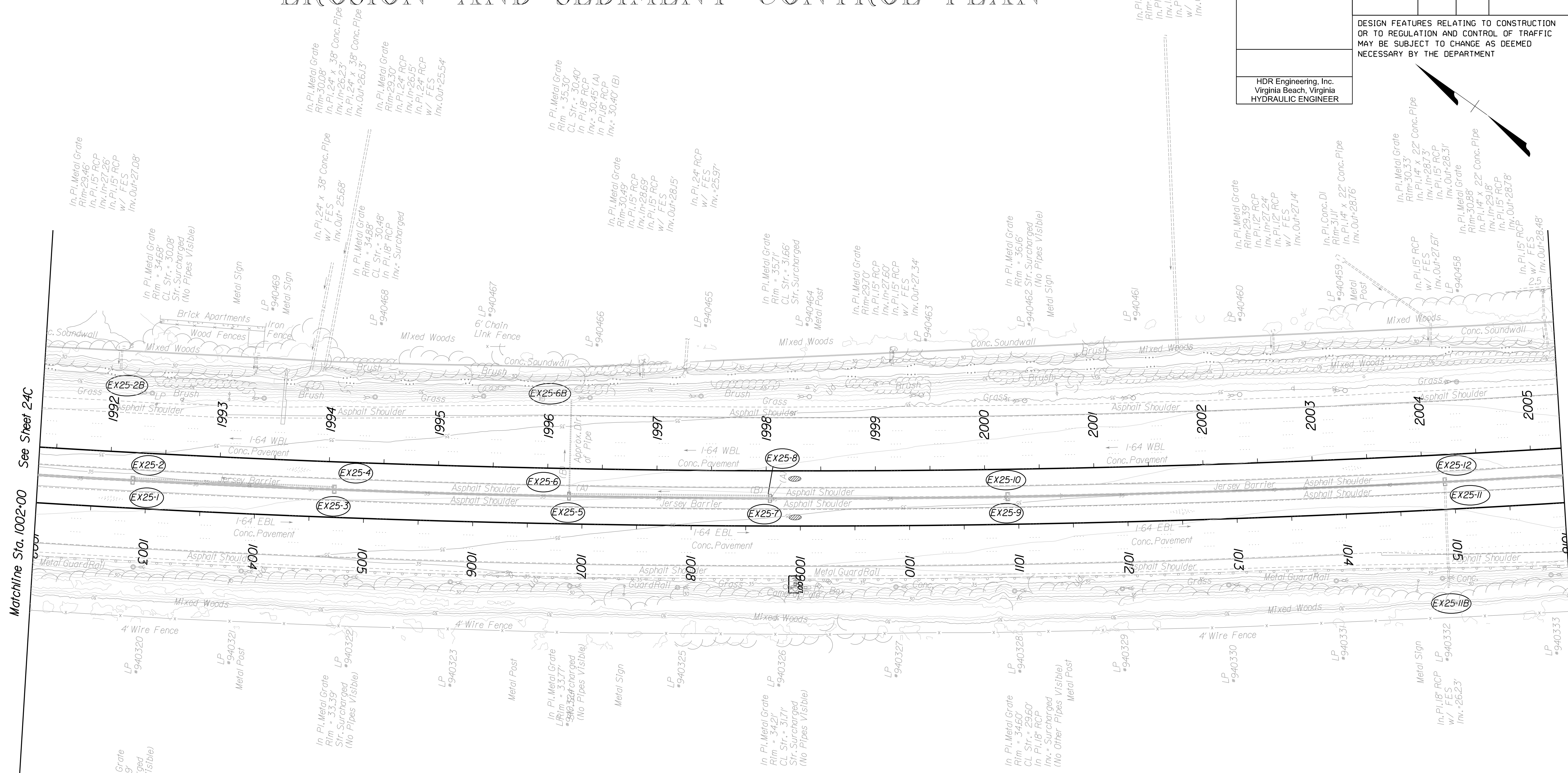
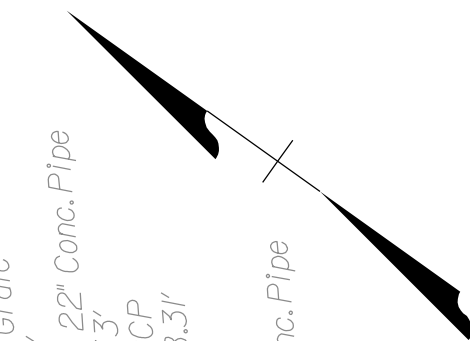
PROJECT MANAGER: ErIn_Eoley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice_Associates, Inc. (757) 306-4260
DESIGN BY: HDR_Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: MZA

EROSION AND SEDIMENT CONTROL PLAN

REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA.	64	0064-121-418, P101	25C

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER



Inlet Protection Type B shall protect the entire length of trench drain

P.H. PLANS
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

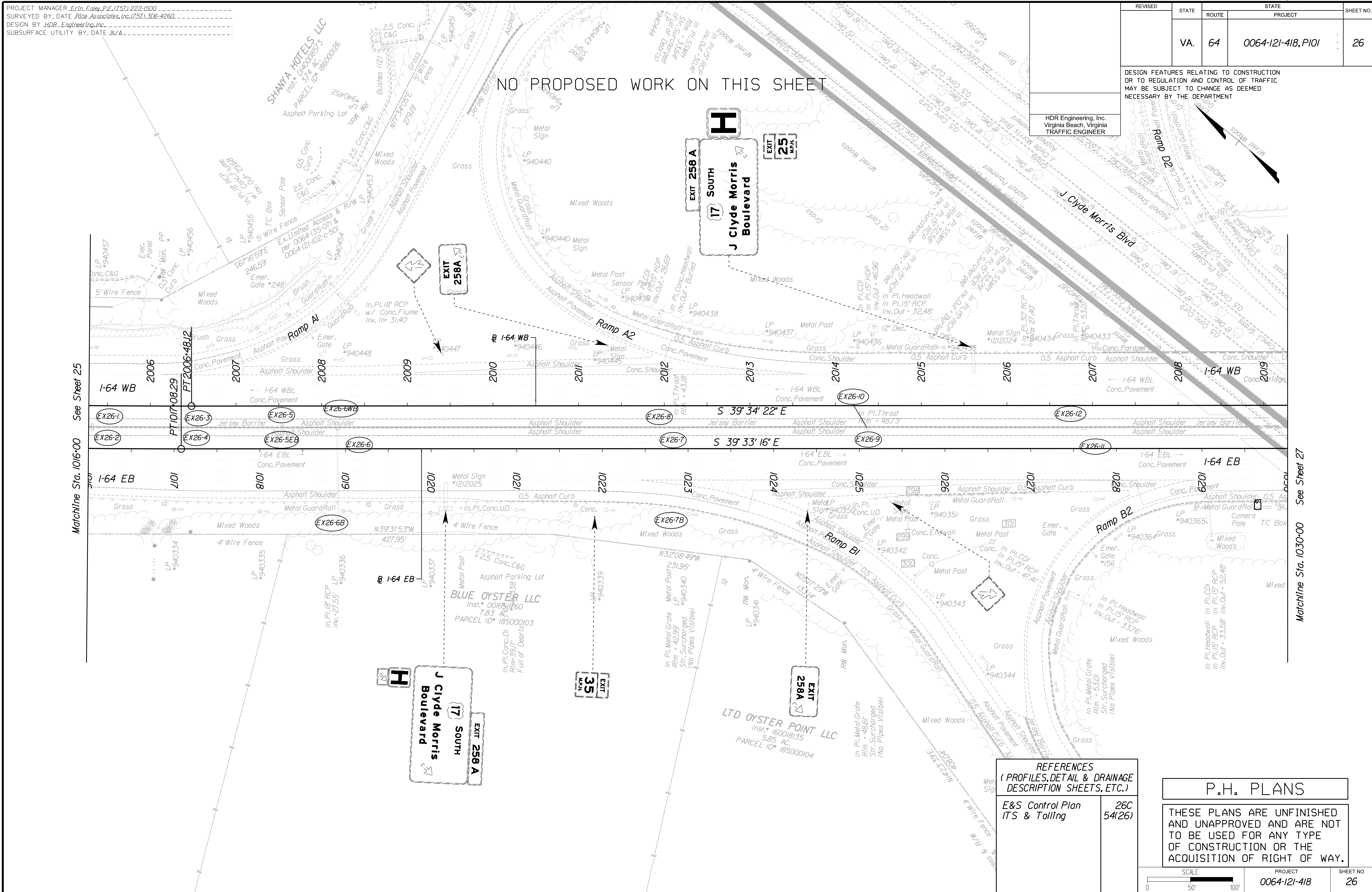
PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: N/A

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	64		0064-121-418, P101	26

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER

NO PROPOSED WORK ON THIS SHEET



Matchline Sta. 1016+00 See Sheet 25

Matchline Sta. 1030+00 See Sheet 27

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

E&S Control Plan ITS & Tolling 26C 54(26)

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROJECT MANAGER: *Erin Eoley, P.E.* (757) 222-1500
SURVEYED BY, DATE: *Rhine Associates, Inc.* (757) 306-4260
DESIGN BY: *HDR Engineering, Inc.*
SUBSURFACE UTILITY BY, DATE: *N/A*

EROSION AND SEDIMENT CONTROL PLAN

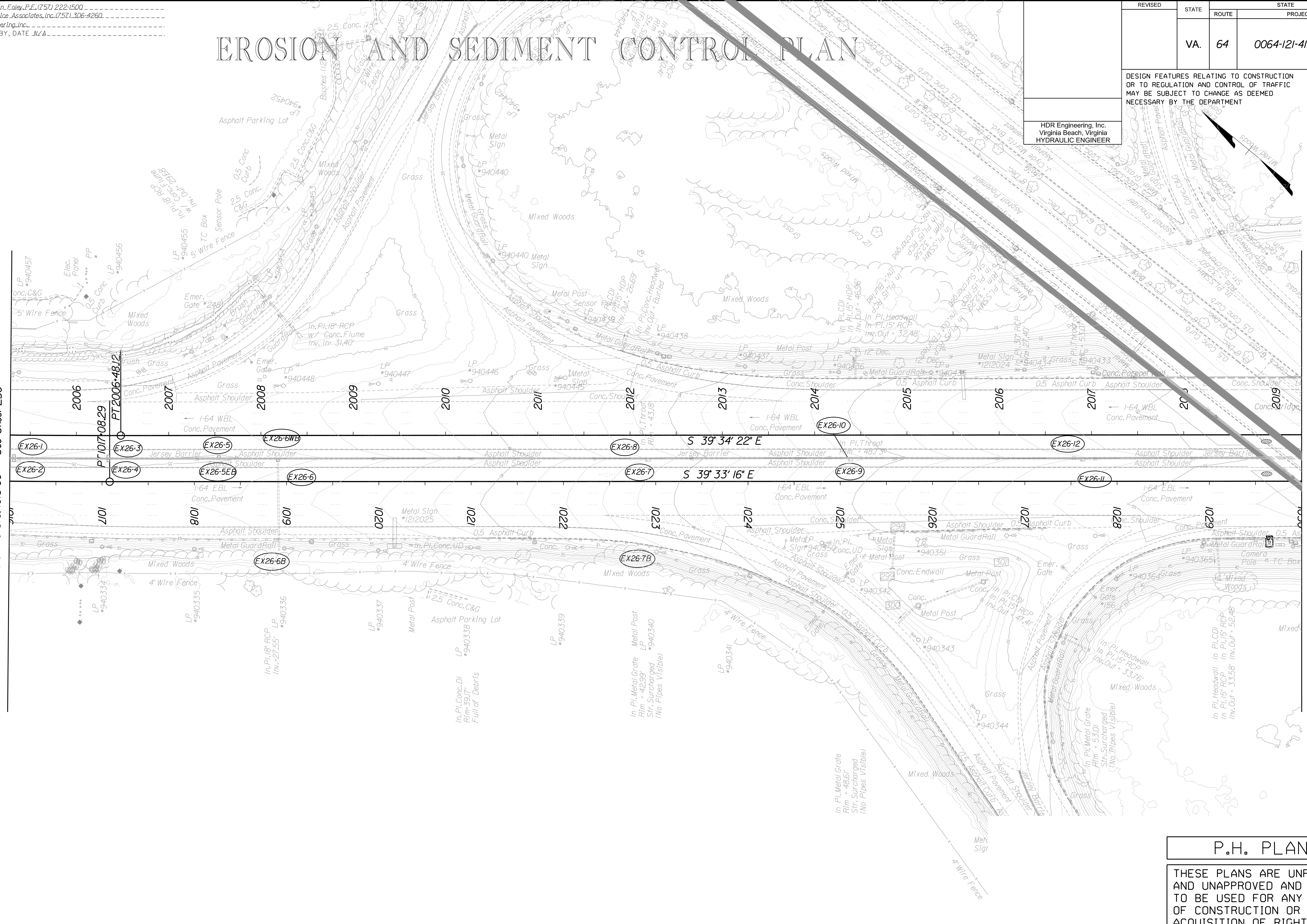
REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA.	64	0064-121-418, P101	26C

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER

Matchline Sta. 1016+00 See Sheet 25C

Matchline Sta. 1030+00 See Sheet 27C



P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

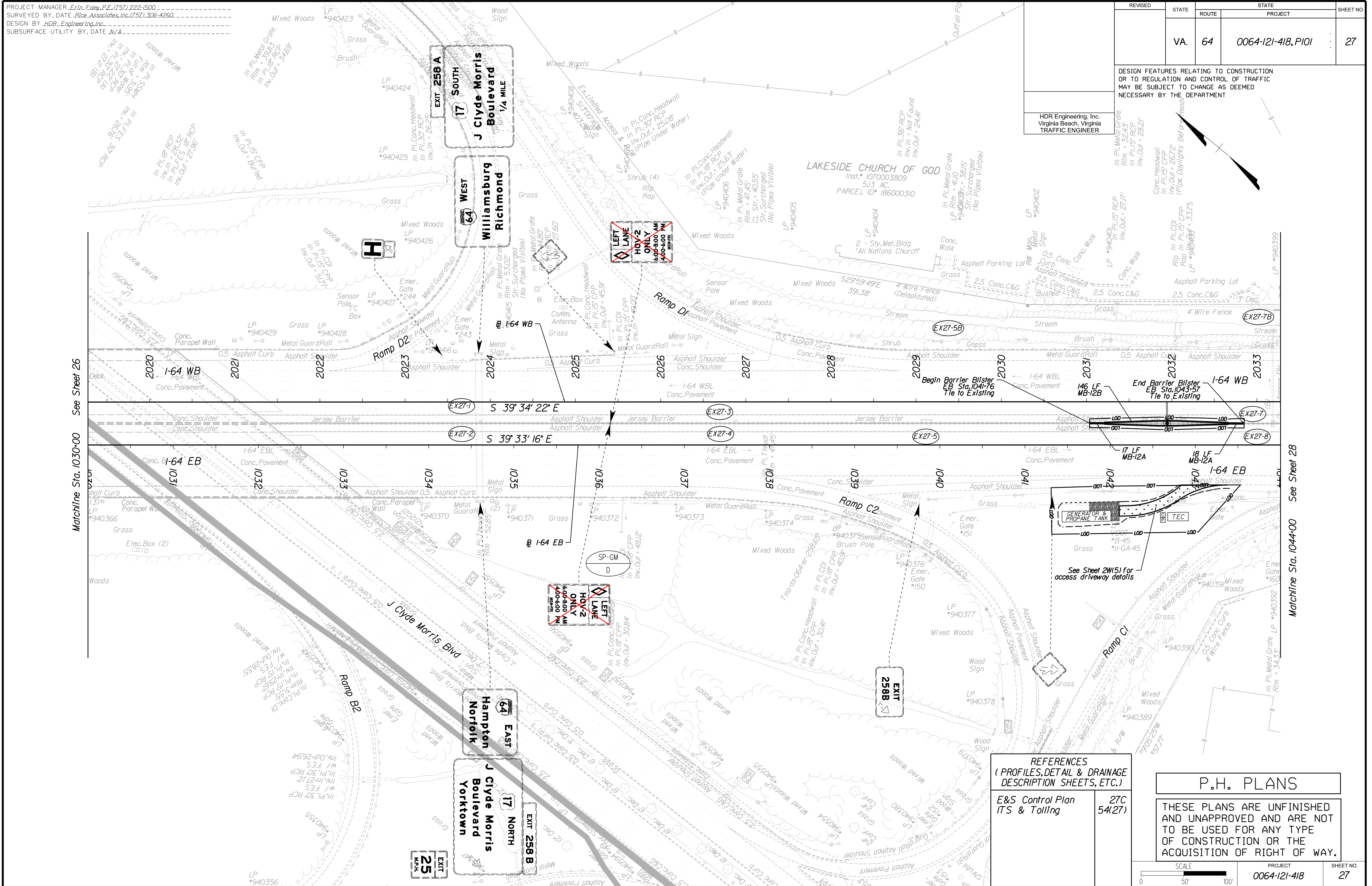
Inlet Protection Type B shall protect the entire length of trench drain

PROJECT MANAGER: Erin Eoley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: MZA

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	64		0064-121-418, P101	27

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER



Matchline Sta. 1030+00 See Sheet 26

Matchline Sta. 1044+00 See Sheet 28

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

E&S Control Plan ITS & Tolling 27C
54(27)

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

SCALE	PROJECT	SHEET NO.
0 50 100'	0064-121-418	27

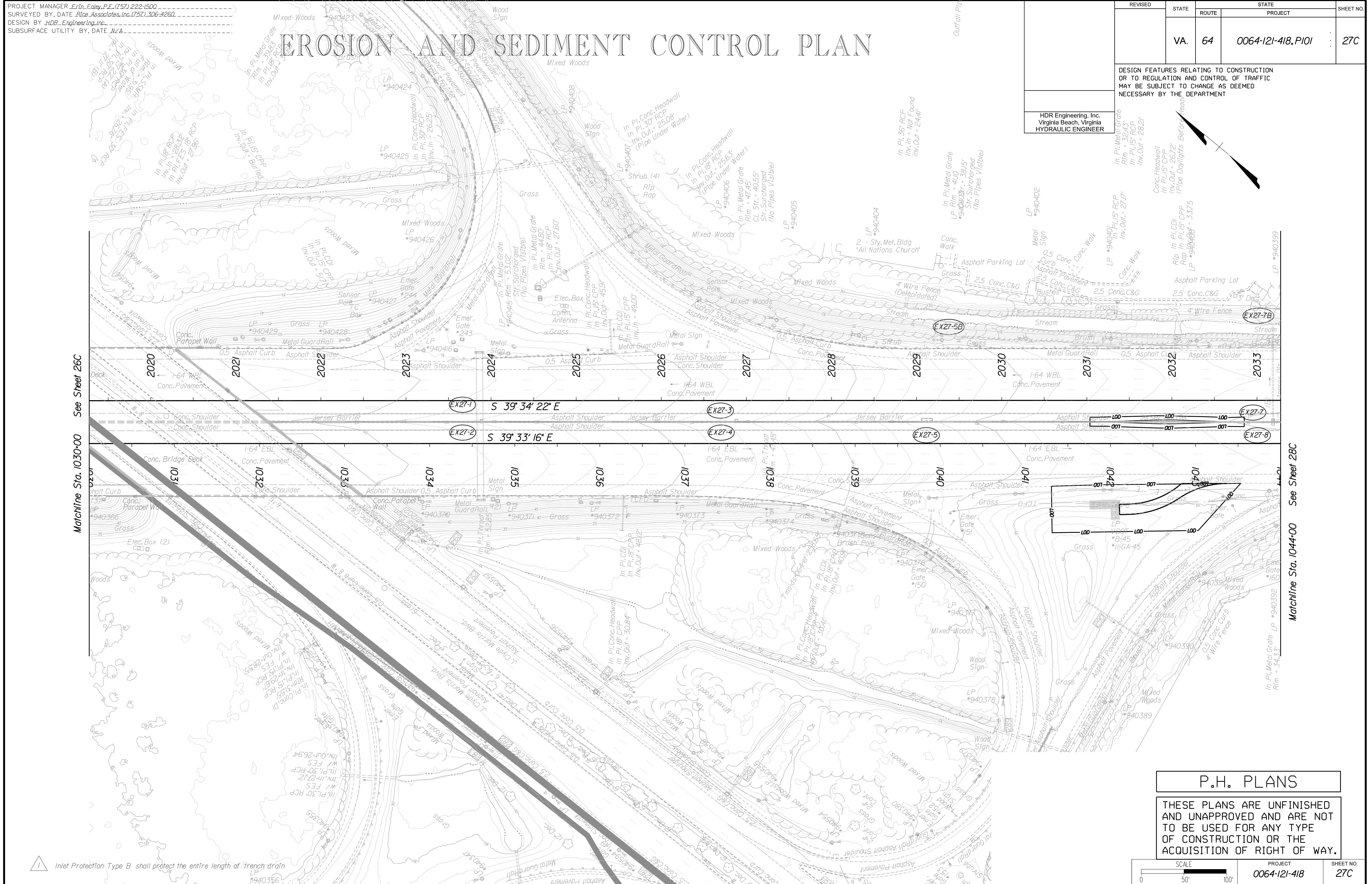
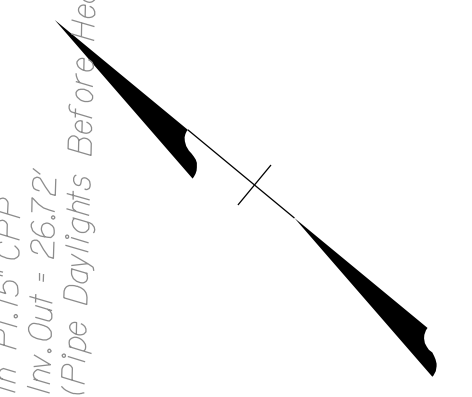
PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineer/Inc.
SUBSURFACE UTILITY BY, DATE: MZA

EROSION AND SEDIMENT CONTROL PLAN

REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA.	64	0064-121-418, P101	27C

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER



Matchline Sta. 1030+00 See Sheet 26C

Matchline Sta. 1044+00 See Sheet 28C

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

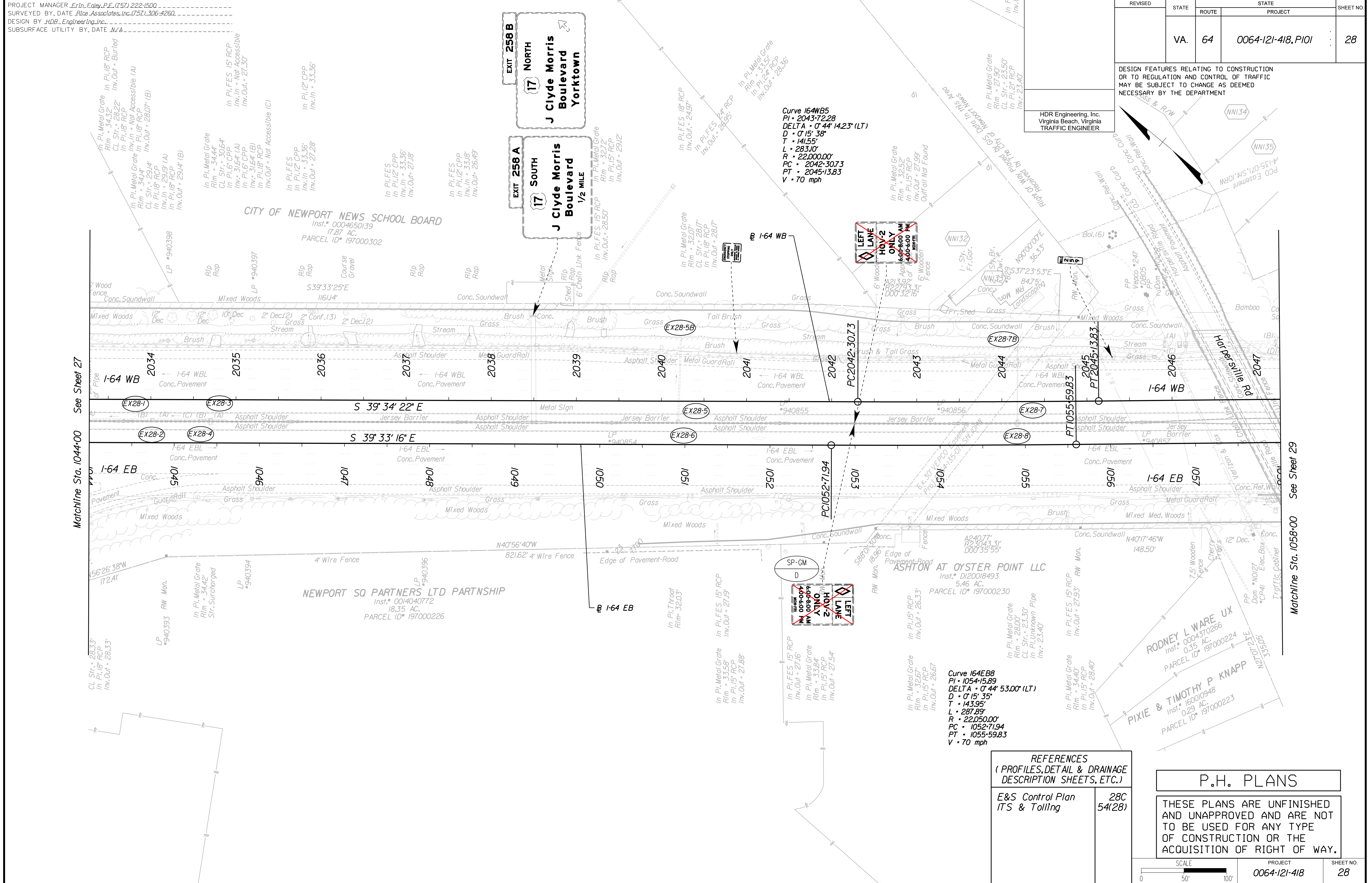
1 Inlet Protection Type B shall protect the entire length of trench drain

PROJECT MANAGER: Erin Eoley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineer/Insp. Inc.
SUBSURFACE UTILITY BY, DATE: N/A

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	64		0064-121-418, P101	28

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER



REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

E&S Control Plan ITS & Tolling 28C 54(28)

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

Matchline Sta. 1044+00 See Sheet 27

Matchline Sta. 1058+00 See Sheet 29

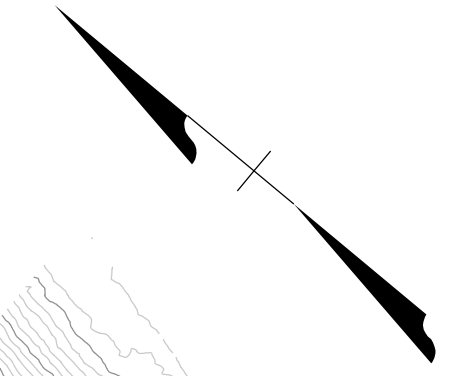
PROJECT MANAGER: ErIn.Ealey,P.E.(757) 222-1500
SURVEYED BY, DATE: Rise_Associates, Inc.(757) 306-4260
DESIGN BY: HDR_Engineering, Inc.
SUBSURFACE UTILITY BY DATE: N/A

EROSION AND SEDIMENT CONTROL PLAN

REVISED	STATE	ROUTE	STATE		SHEET NO.
			PROJECT		
	VA.	64	0064-121-418, P101		28C

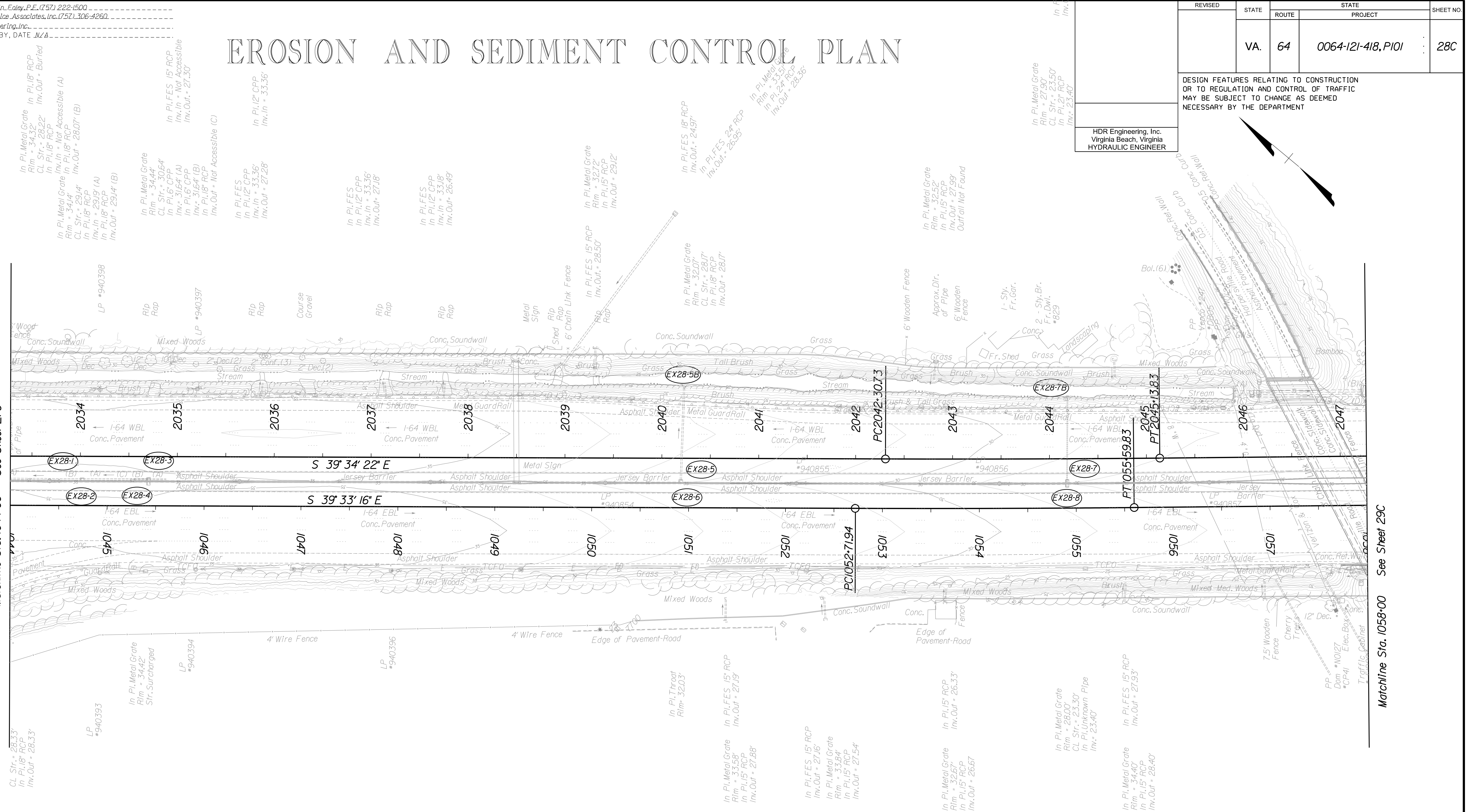
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER



Matchline Sta. 1044+00 See Sheet 27C

Matchline Sta. 1058+00 See Sheet 29C



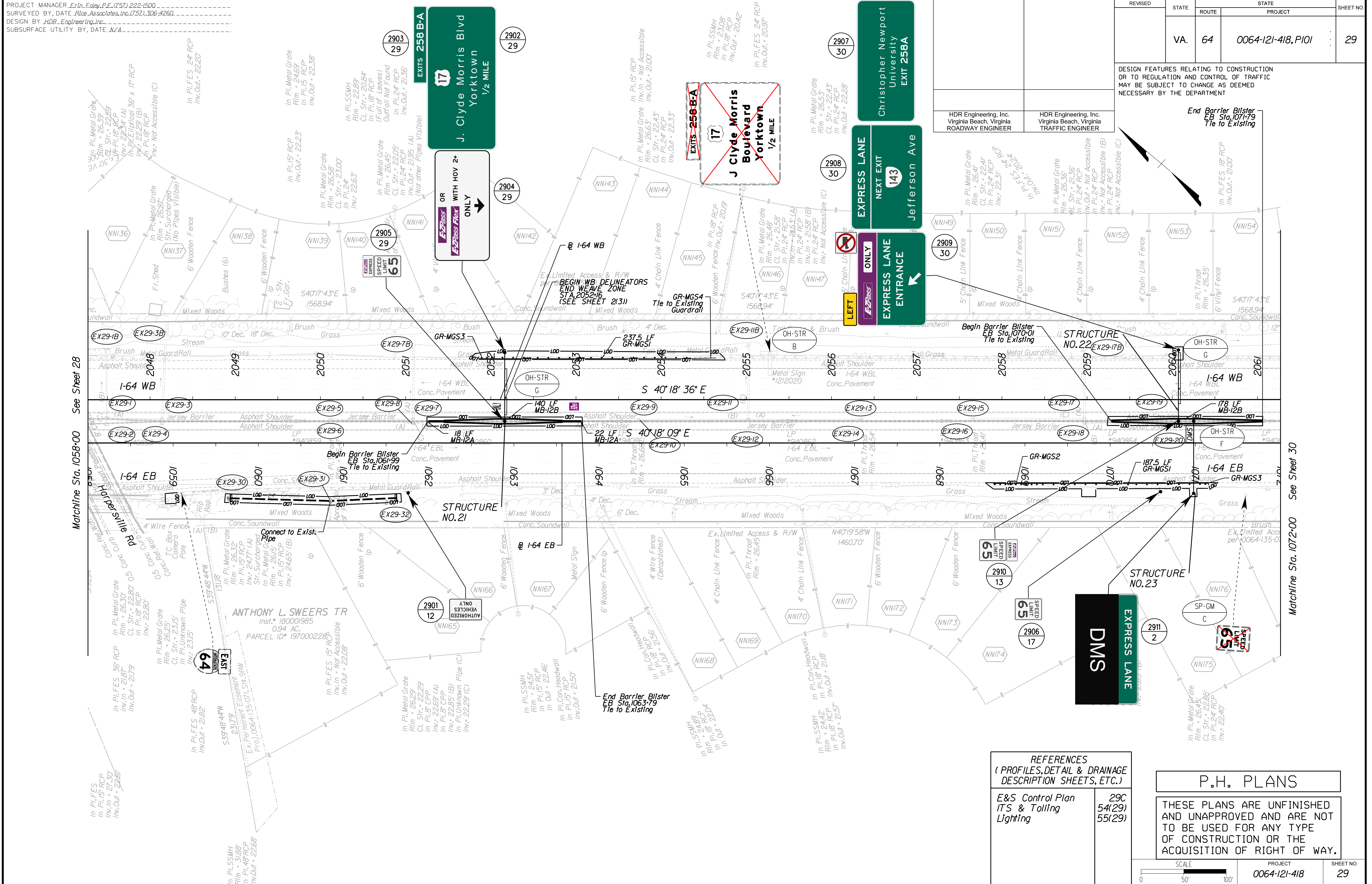
P.H. PLANS
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

1 Inlet Protection Type B shall protect the entire length of trench drain

PROJECT MANAGER: ErIn_Eoley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rline_Associates, Inc. (757) 306-4260
DESIGN BY: HDB_Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: N/A

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	29

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



Matchline Sta. 1058+00 See Sheet 28

Matchline Sta. 1072+00 See Sheet 30

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

E&S Control Plan ITS & Tolling Lighting

29C
54(29)
55(29)

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

SCALE 0 50 100'	PROJECT 0064-121-418	SHEET NO. 29
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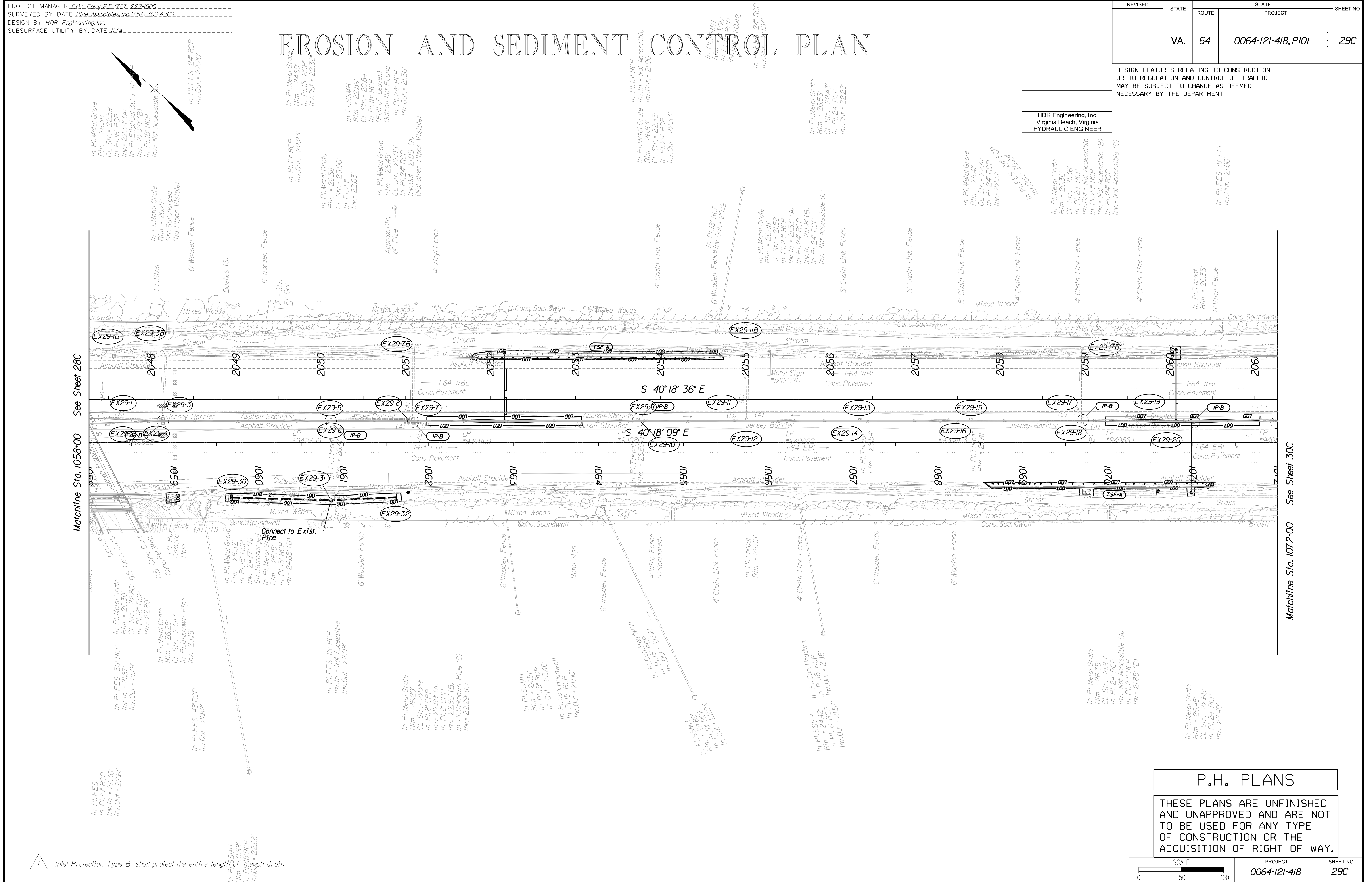
PROJECT MANAGER: *ErIn.Ealey,P.E.(757) 222-1500*
SURVEYED BY, DATE: *Rhee_Associates, Inc.(757) 306-4260*
DESIGN BY: *HDR, Engineer/Ing, Inc.*
SUBSURFACE UTILITY BY, DATE: *MZA*

EROSION AND SEDIMENT CONTROL PLAN

REVISED	STATE	ROUTE	STATE		SHEET NO.
			PROJECT		
	VA.	64	0064-121-418, P101		29C

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER



Matchline Sta. 1058+00 See Sheet 28C

Matchline Sta. 1072+00 See Sheet 30C

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

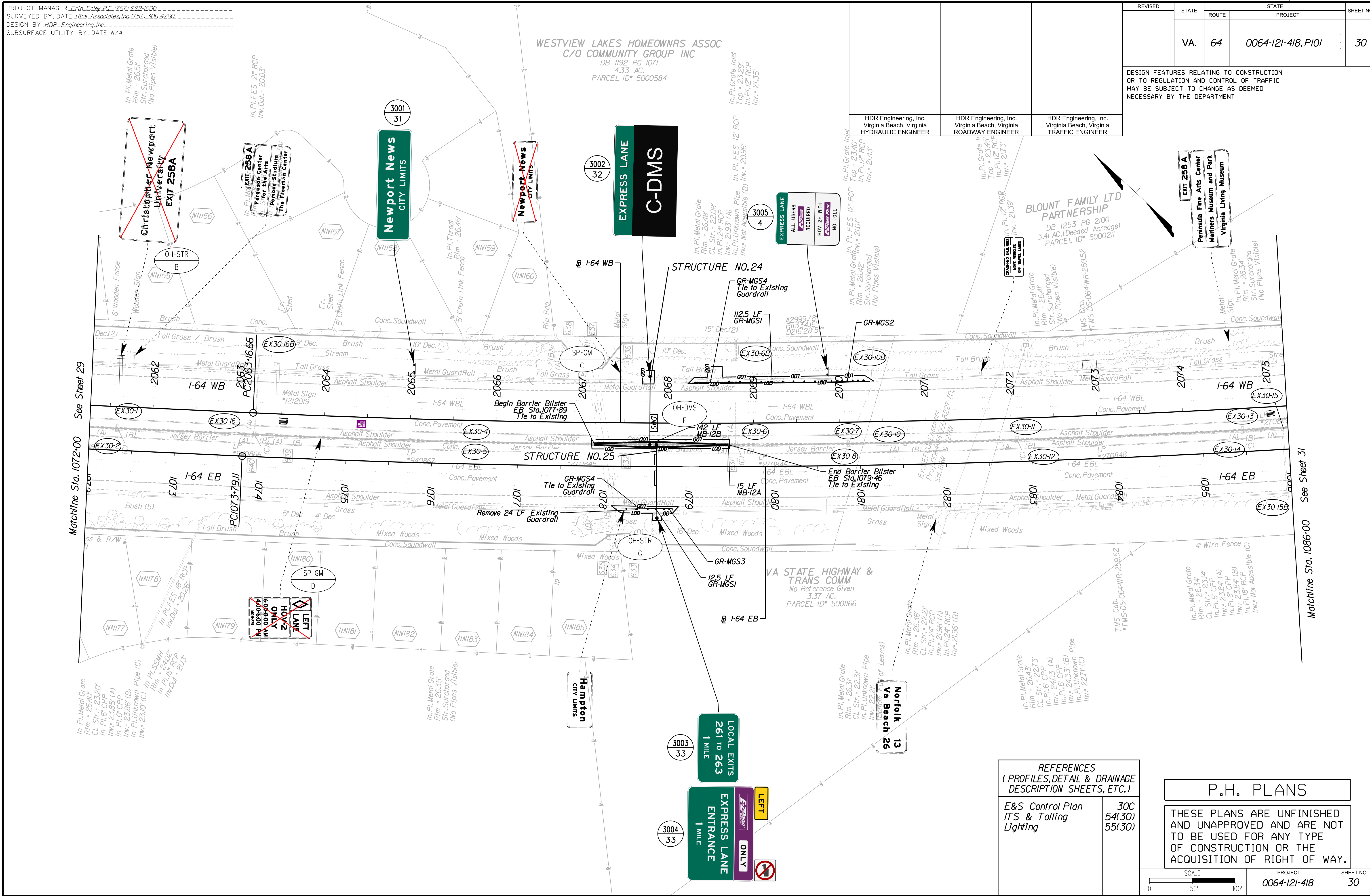
Inlet Protection Type B shall protect the entire length of trench drain

PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineer Inc.
SUBSURFACE UTILITY BY, DATE: MZA

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	30

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc. Virginia Beach, Virginia HYDRAULIC ENGINEER	HDR Engineering, Inc. Virginia Beach, Virginia ROADWAY ENGINEER	HDR Engineering, Inc. Virginia Beach, Virginia TRAFFIC ENGINEER
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REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

E&S Control Plan	30C
ITS & Tolling	54(30)
Lighting	55(30)

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

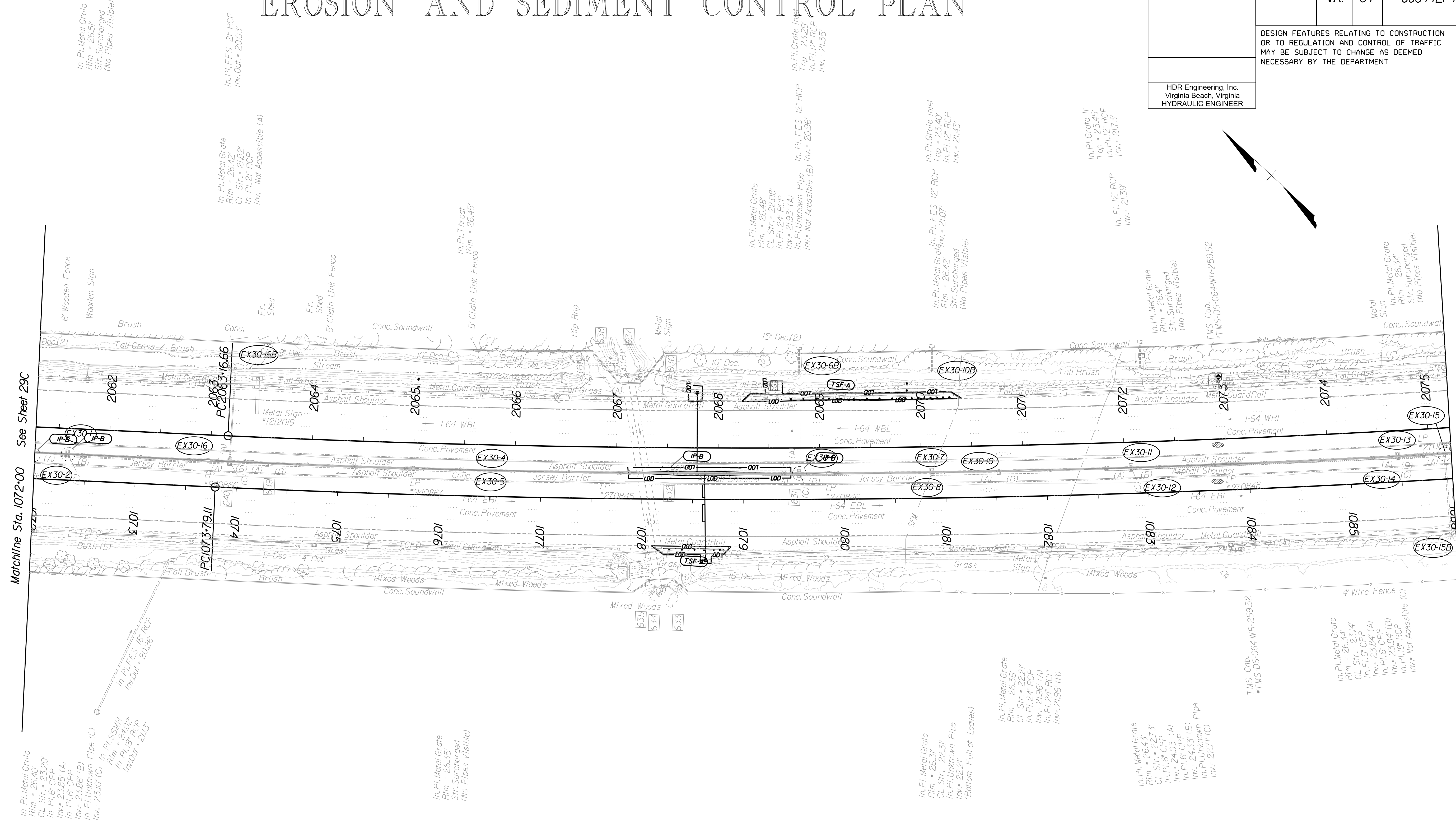
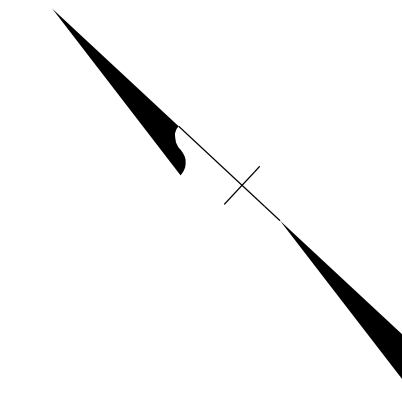
PROJECT MANAGER: *Erin Ealey, P.E. (757) 222-1500*
SURVEYED BY, DATE: *Rico Associates, Inc. (757) 306-4260*
DESIGN BY: *HDR, Engineering, Inc.*
SUBSURFACE UTILITY BY, DATE: *MZA*

EROSION AND SEDIMENT CONTROL PLAN

REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA.	64	0064-121-418, P101	30C

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER



Matchline Sta. 1072+00 See Sheet 29C

Matchline Sta. 1086+00 See Sheet 31C

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

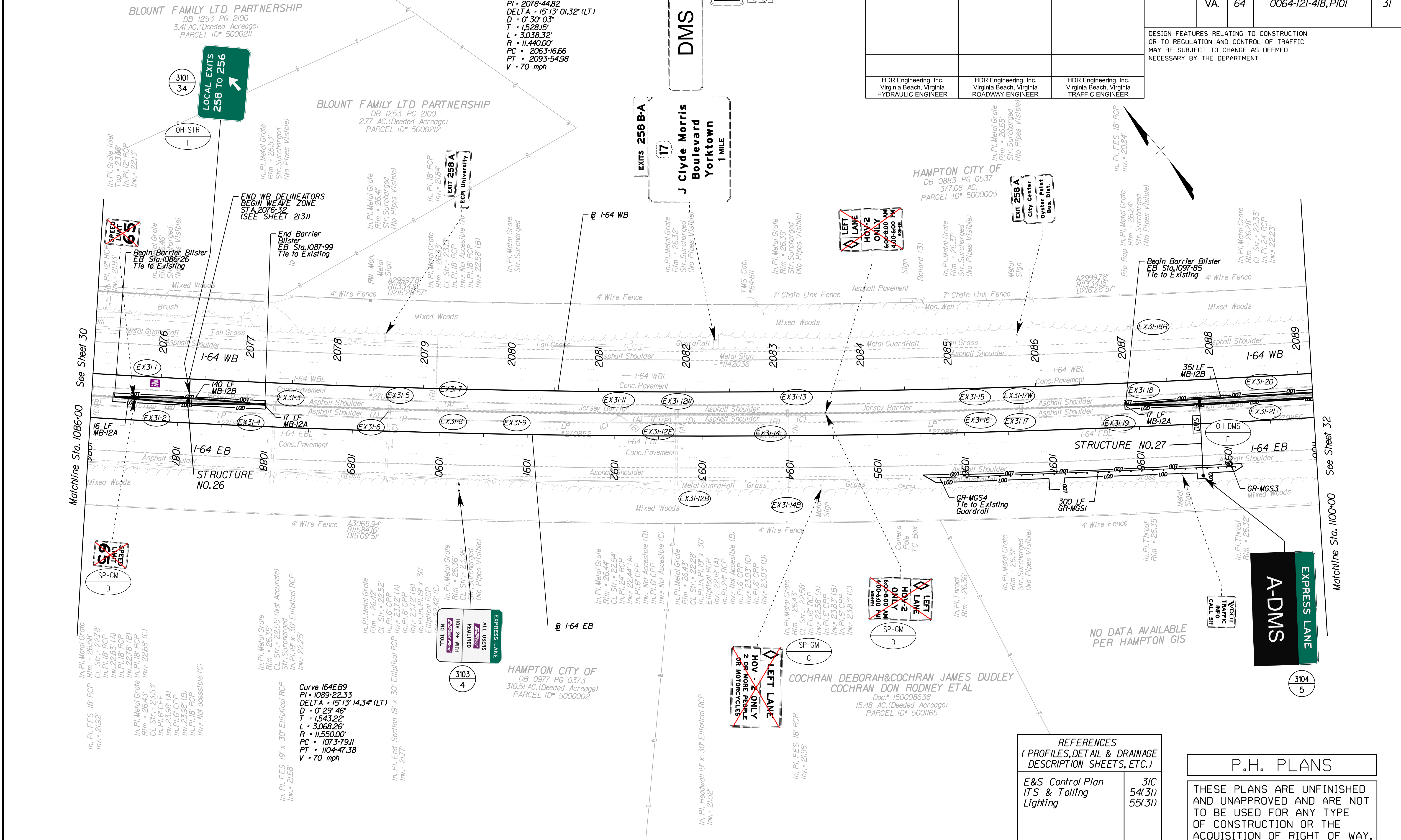
1 Inlet Protection Type B shall protect the entire length of trench drain

PROJECT MANAGER: Erin Foley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineer Inc., Inc.
SUBSURFACE UTILITY BY, DATE: N/A

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	31

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc. Virginia Beach, Virginia HYDRAULIC ENGINEER	HDR Engineering, Inc. Virginia Beach, Virginia ROADWAY ENGINEER	HDR Engineering, Inc. Virginia Beach, Virginia TRAFFIC ENGINEER
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REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

E&S Control Plan ITS & Tolling Lighting	31C 54(31) 55(31)
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P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

SCALE 0 50 100'	PROJECT 0064-121-418	SHEET NO. 31
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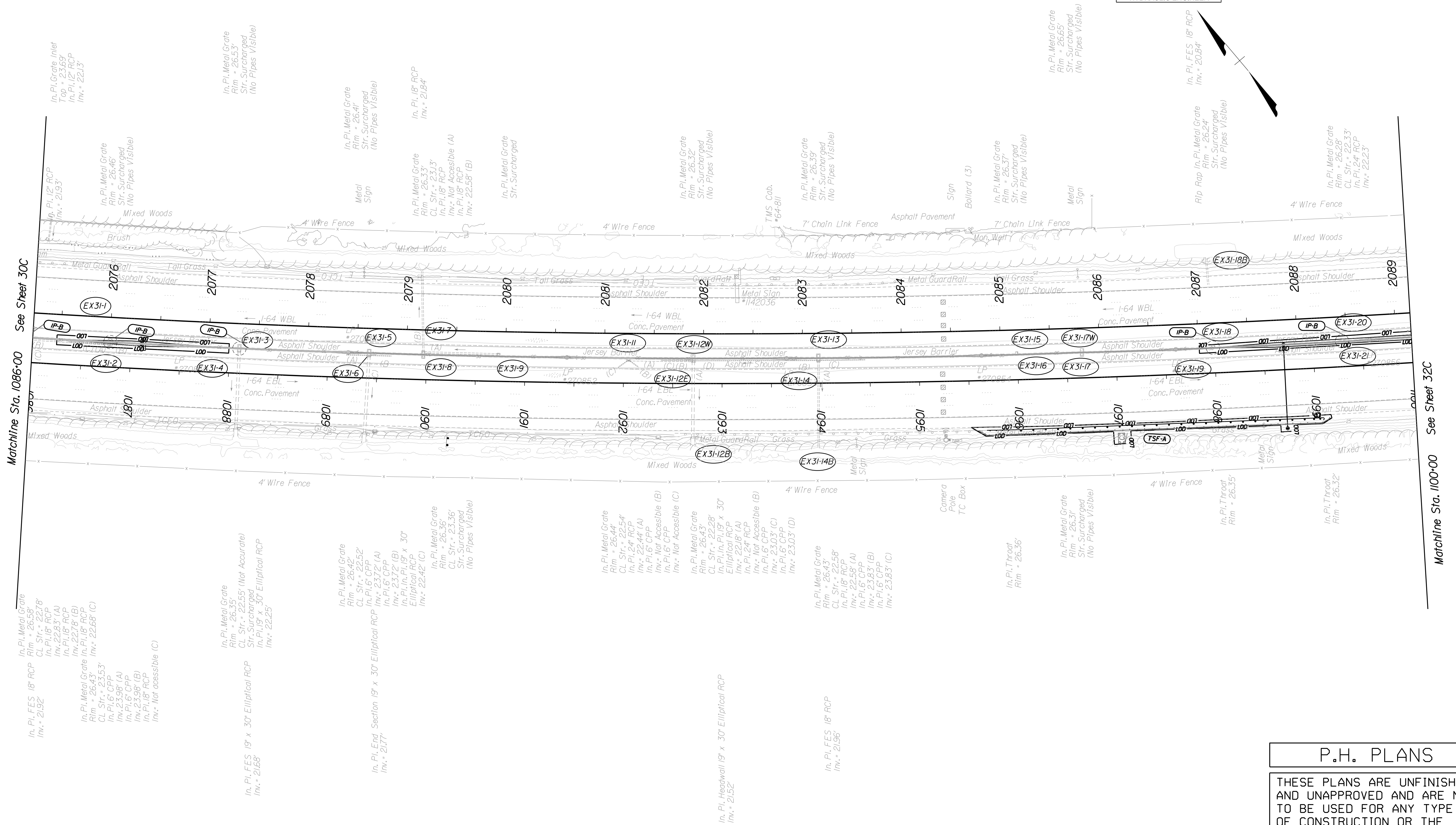
PROJECT MANAGER: ErIn_Eoley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice_Associates, Inc. (757) 306-4260
DESIGN BY: HDR_Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: N/A

EROSION AND SEDIMENT CONTROL PLAN

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	31C

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER



Inlet Protection Type B shall protect the entire length of trench drain

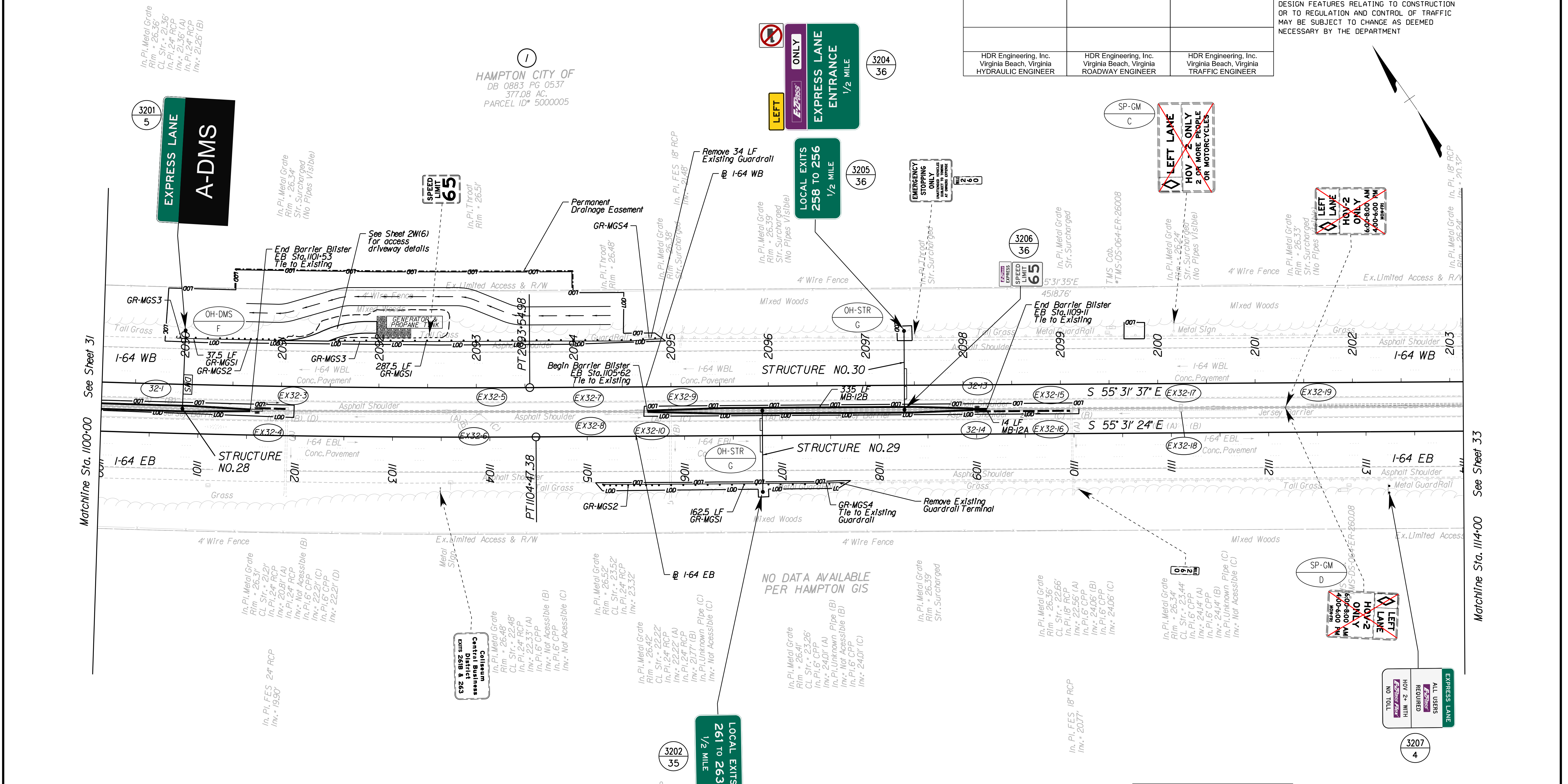
P.H. PLANS
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROJECT MANAGER: ErIn_Eoley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice_Associates, Inc. (757) 306-4260
DESIGN BY: HDR_Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: N/A

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	32

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc. Virginia Beach, Virginia HYDRAULIC ENGINEER	HDR Engineering, Inc. Virginia Beach, Virginia ROADWAY ENGINEER	HDR Engineering, Inc. Virginia Beach, Virginia TRAFFIC ENGINEER
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REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

E&S Control Plan ITS & Tolling Lighting	32C 54(32) 55(32)
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P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

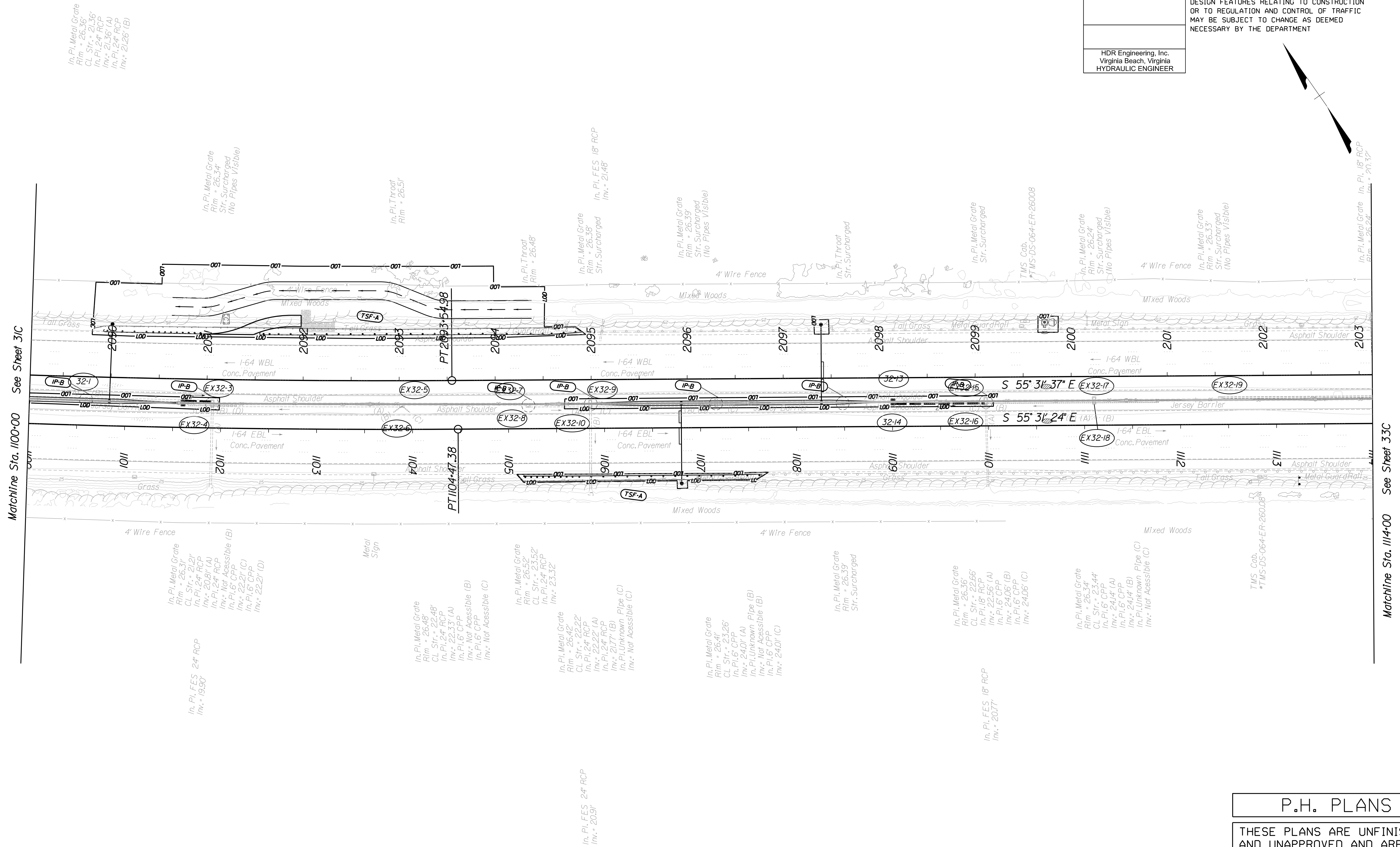
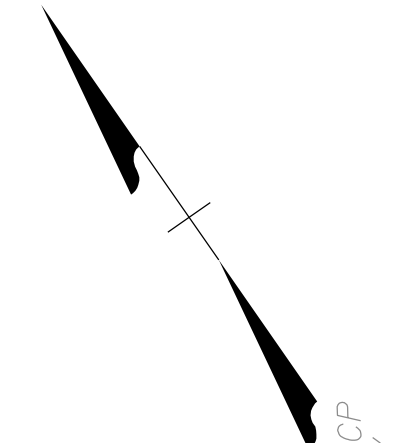
PROJECT MANAGER: ErIn_Eoley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice_Associates, Inc. (757) 306-4260
DESIGN BY: HDB_Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: MZA

EROSION AND SEDIMENT CONTROL PLAN

REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA.	64	0064-121-418, P101	32C

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER



Matchline Sta. 1100+00 See Sheet 31C

Matchline Sta. 1114+00 See Sheet 33C

1 Inlet Protection Type B shall protect the entire length of trench drain

P.H. PLANS
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROJECT MANAGER: Erin Foley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineer/Insp. Inc.
SUBSURFACE UTILITY BY, DATE: N/A

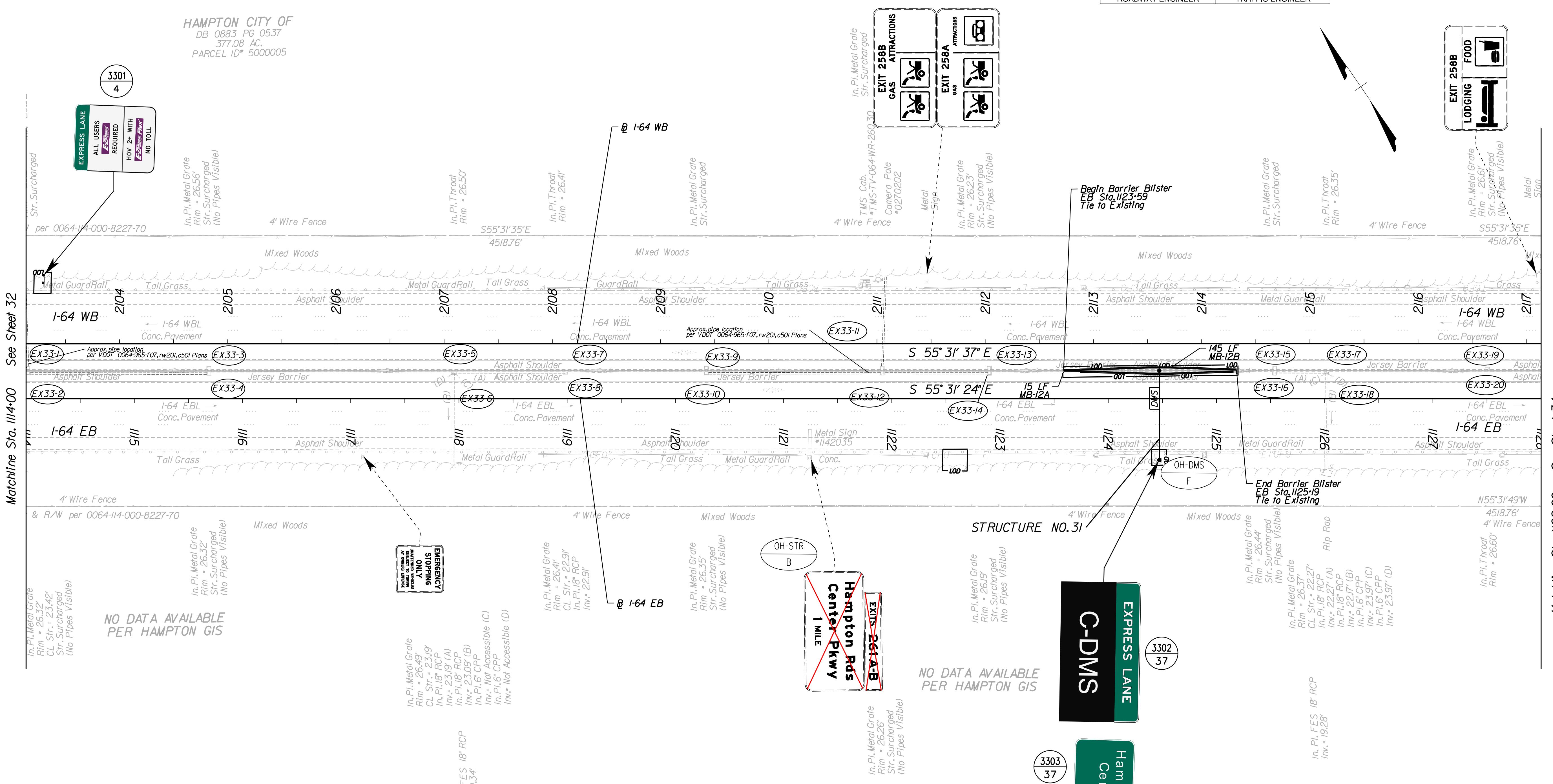
REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	64		0064-121-418, P101	33

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
ROADWAY ENGINEER

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER

HAMPTON CITY OF
DB 0883 PG 0537
377.08 AC.
PARCEL ID# 5000005



Matchline Sta. 114+00 See Sheet 32

Matchline Sta. 1128+00 See Sheet 34

NO DATA AVAILABLE PER HAMPTON GIS

NO DATA AVAILABLE PER HAMPTON GIS

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

E&S Control Plan 33C
ITS & Tolling 54(33)
Lighting 55(33)

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

SCALE 0 50 100'	PROJECT 0064-121-418	SHEET NO. 33
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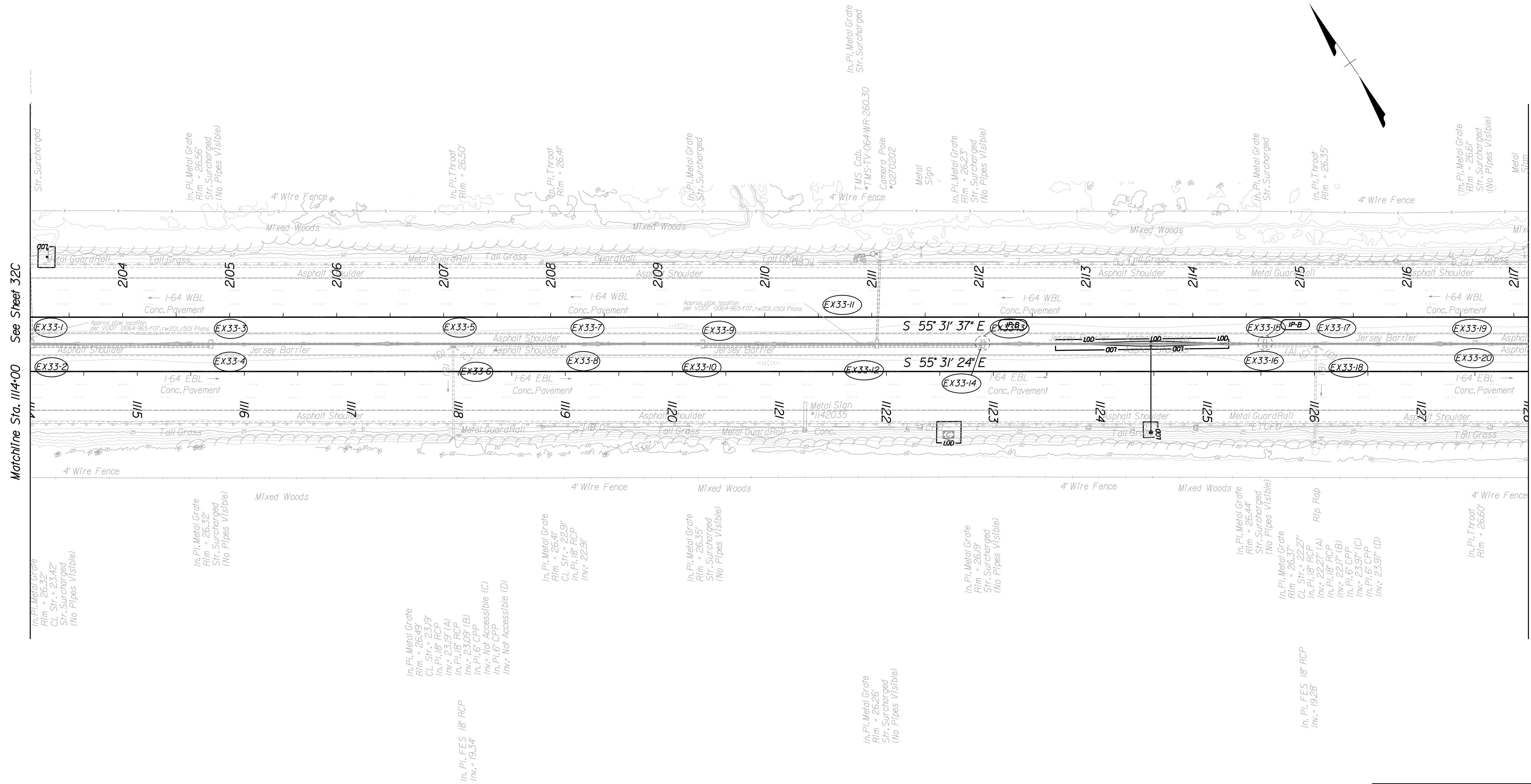
PROJECT MANAGER: Erin Foley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: MZA

EROSION AND SEDIMENT CONTROL PLAN

REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA.	64	0064-121-418, P101	33C

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER



P.H. PLANS
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

1 Inlet Protection Type B shall protect the entire length of trench drain

PROJECT MANAGER: *Erin Eoley, P.E.* (757) 222-1500
SURVEYED BY, DATE: *Rhine Associates, Inc.* (757) 306-4260
DESIGN BY: *HDR, Engineer/Inc.*
SUBSURFACE UTILITY BY, DATE: *N/A*

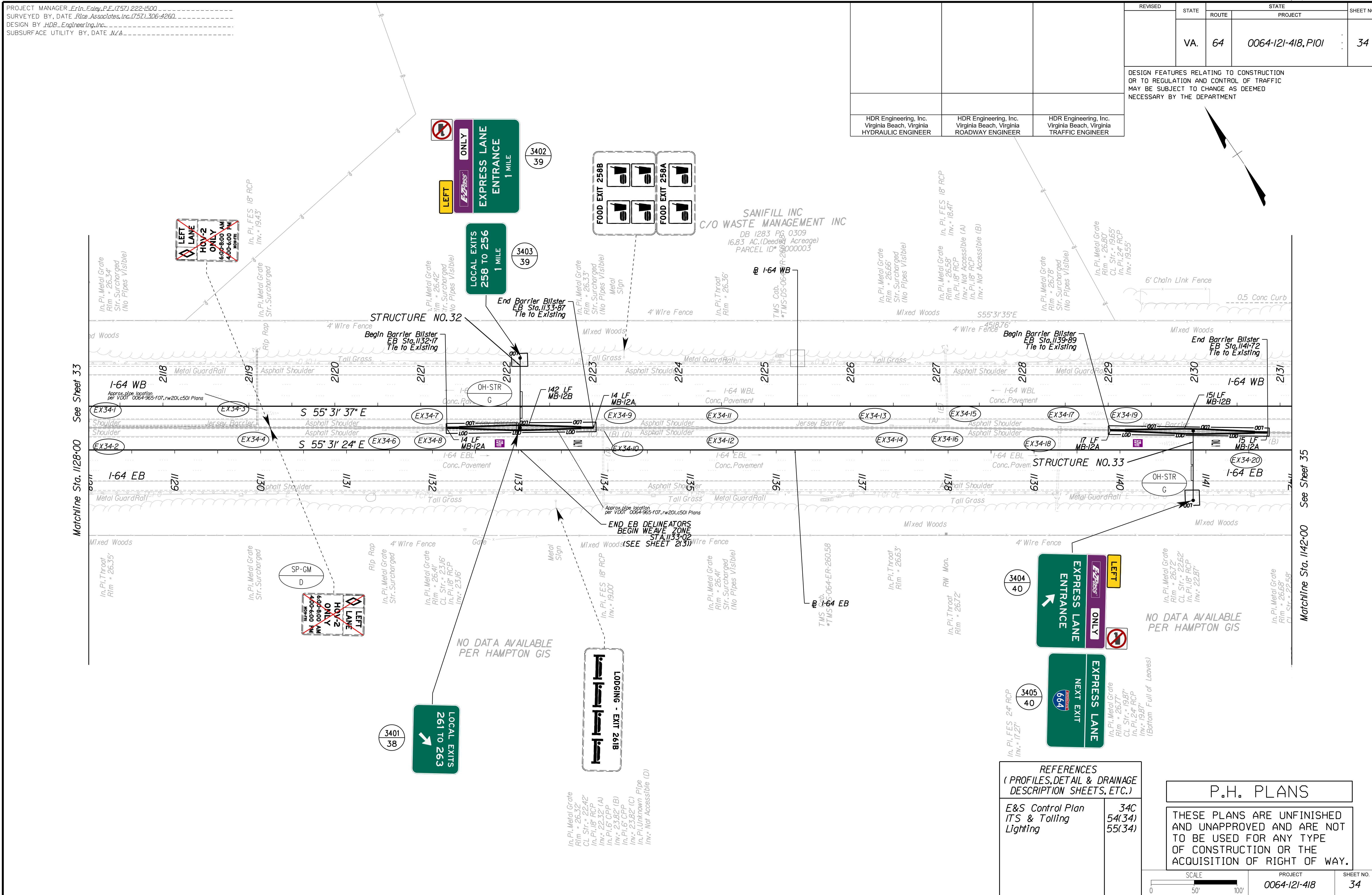
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	34

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER

HDR Engineering, Inc.
Virginia Beach, Virginia
ROADWAY ENGINEER

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER



REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

E&S Control Plan
ITS & Tolling
Lighting

34C
54(34)
55(34)

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

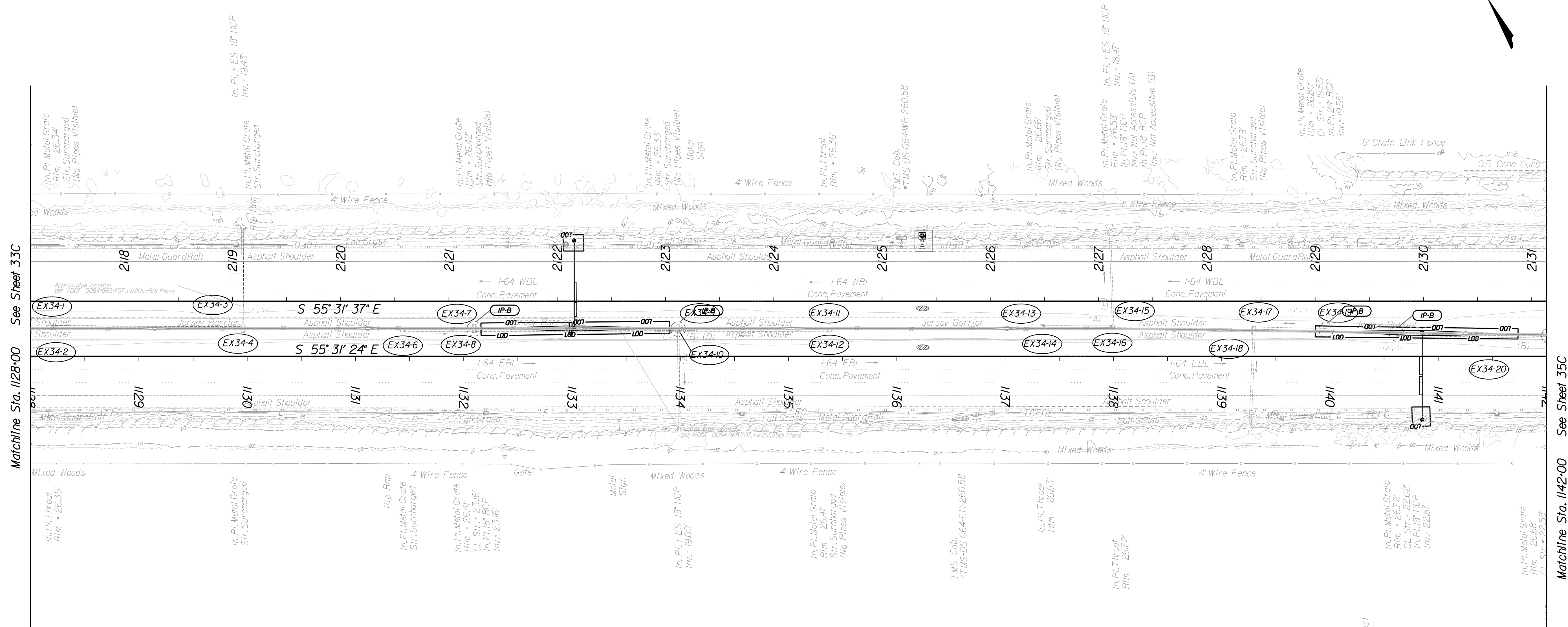
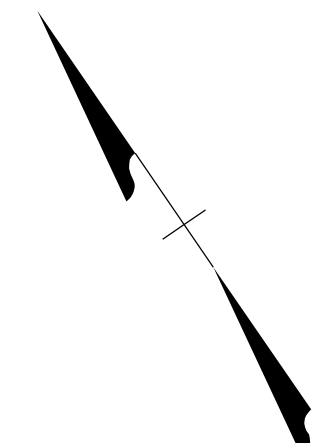
PROJECT MANAGER: *Erin Eoley, P.E. (757) 222-1500*
SURVEYED BY, DATE: *Rise Associates, Inc. (757) 306-4260*
DESIGN BY: *HDR, Engineering, Inc.*
SUBSURFACE UTILITY BY, DATE: *MZA*

EROSION AND SEDIMENT CONTROL PLAN

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	64		0064-121-418, P101	34C

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER



Matchline Sta. 1128+00 See Sheet 33C

Matchline Sta. 1142+00 See Sheet 35C

In. P.I. Metal Grate
Rim = 26.32
CL Str. = 22.42
In. P.I. 18\"/>

Inlet Protection Type B shall protect the entire length of trench drain

P.H. PLANS
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROJECT MANAGER: Erin Foley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDB, Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: MZA

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	35

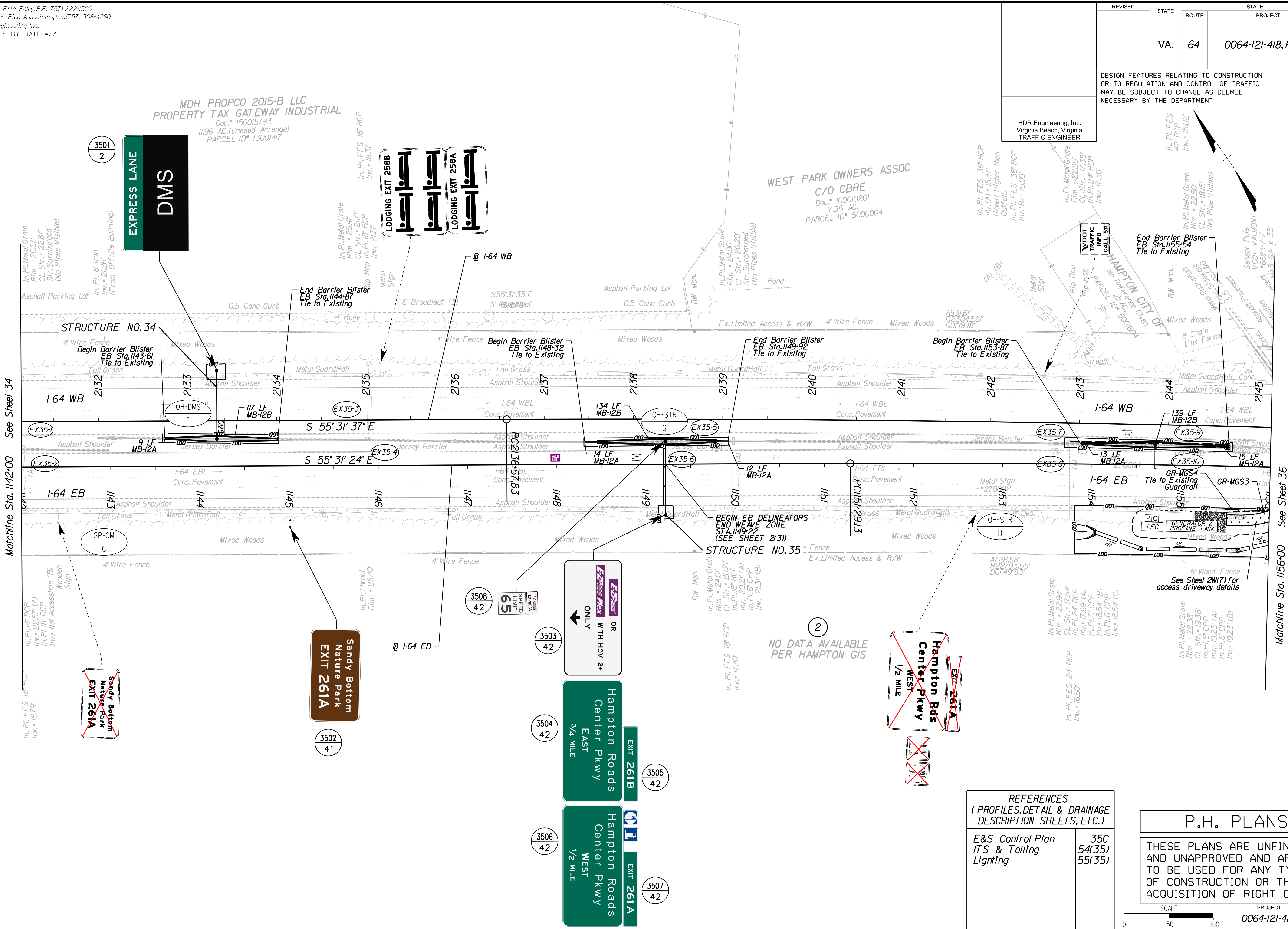
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER

MDH PROPCO 2015-B LLC
PROPERTY TAX GATEWAY INDUSTRIAL
Doc.# 150015783
11.96 AC. (Deeded Acreage)
PARCEL ID# 13001417

WEST PARK OWNERS ASSOC
C/O CBRE
Doc.# 100010201
7.35 AC.
PARCEL ID# 50000004

HAMPTON CITY OF
No Reference Given
PARCEL ID# 5001024



REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

E&S Control Plan 35C
ITS & Tolling 54(35)
Lighting 55(35)

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

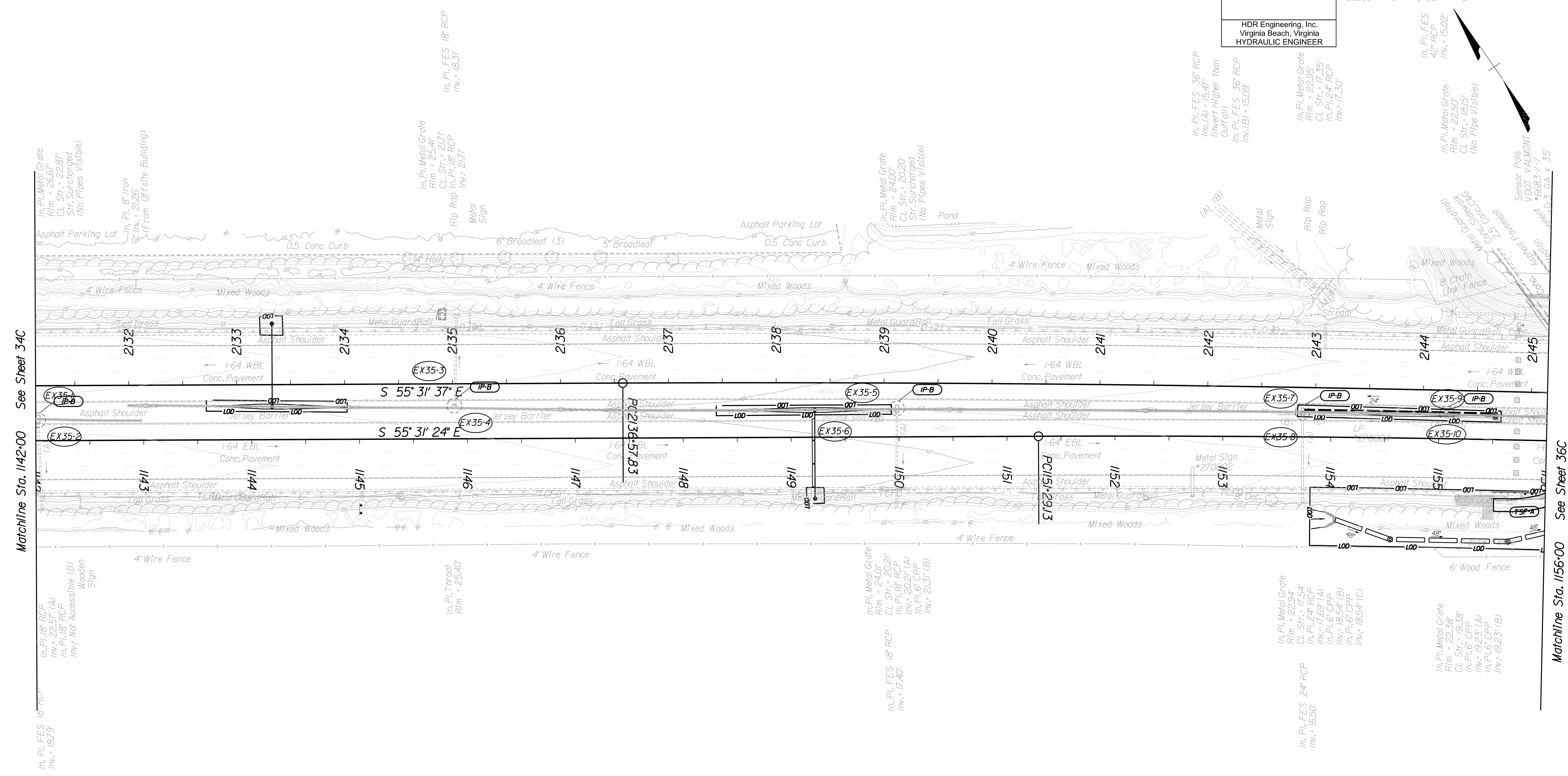
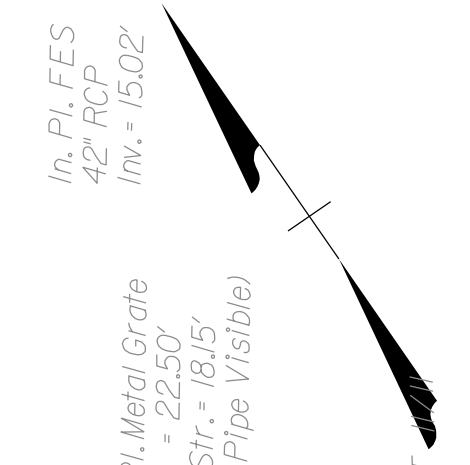
PROJECT MANAGER: *Erin Eoley, P.E.* (757) 222-1500
SURVEYED BY, DATE: *Rhee Associates, Inc.* (757) 306-4260
DESIGN BY: *HDR, Engineer/Inc.*
SUBSURFACE UTILITY BY, DATE: *N/A*

EROSION AND SEDIMENT CONTROL PLAN

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	64		0064-121-418, P101	35C

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER



Matchline Sta. 1142+00 See Sheet 34C

Matchline Sta. 1156+00 See Sheet 36C

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

Inlet Protection Type B shall protect the entire length of trench drain

PROJECT MANAGER: ErIn.Ealey, P.E. (757) 222-1500
SURVEYED BY: DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineer/Inc.
SUBSURFACE UTILITY BY: DATE: MZA

Curve 164WB7
PI = 2146-76.10
DELTA = 4° 02' 59.62" (RT)
D = 0' 11" 56"
T = 1,018.27'
L = 2,035.70'
R = 28,800.00'
PC = 2136-57.83
PT = 2156-93.52
V = 70 mph

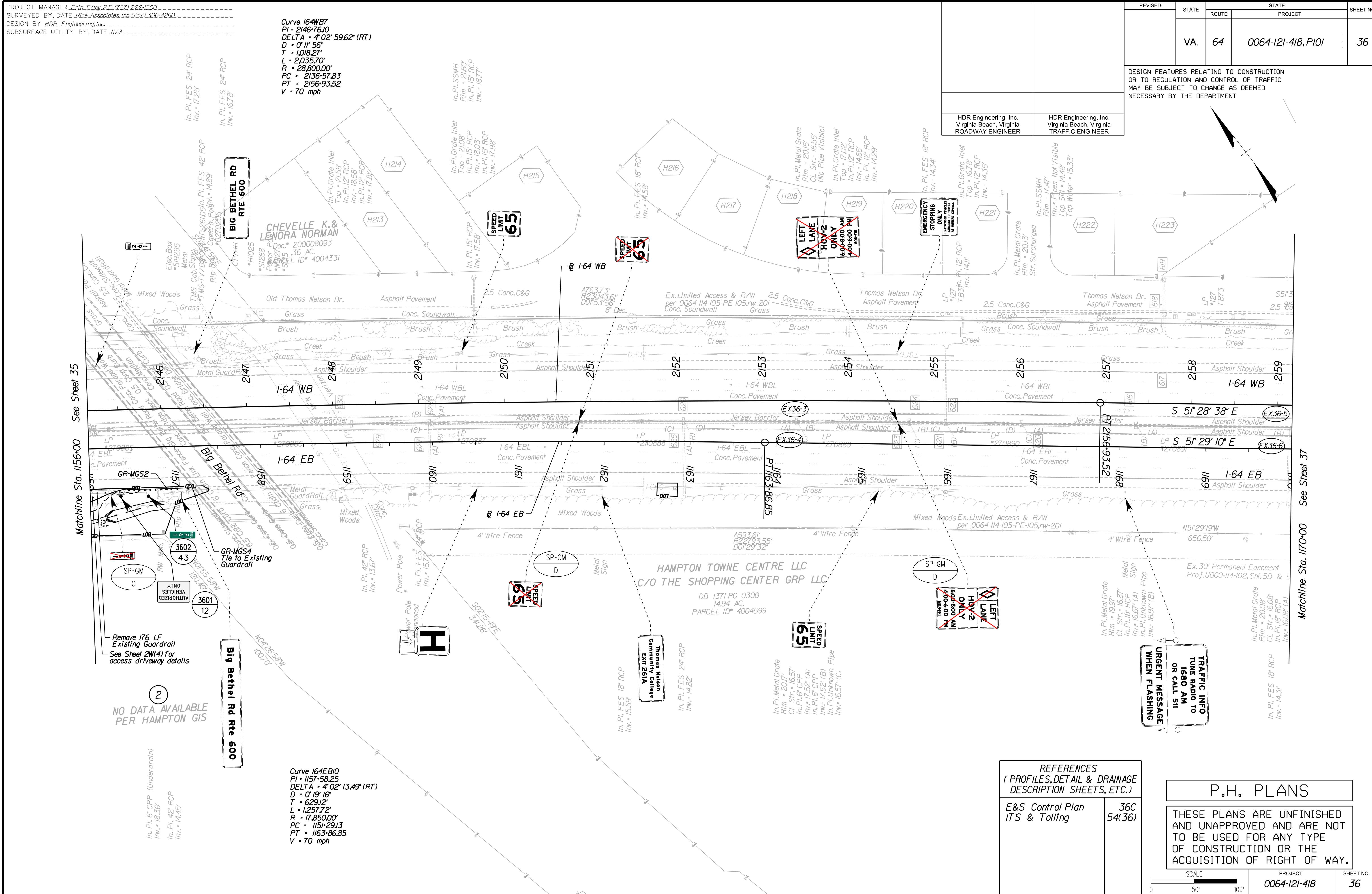
Curve 164EB10
PI = 1157-58.25
DELTA = 4° 02' 13.49" (RT)
D = 0' 19" 16"
T = 629.12'
L = 1,257.72'
R = 17,850.00'
PC = 1151-29.13
PT = 1163-86.85
V = 70 mph

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	36

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
ROADWAY ENGINEER

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER



NO DATA AVAILABLE PER HAMPTON GIS

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

E&S Control Plan ITS & Tolling 36C 54(36)

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

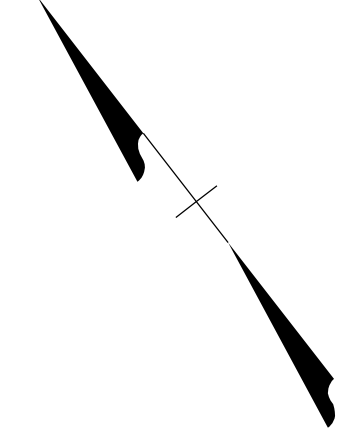
PROJECT MANAGER: ErIn_Ealey, P.E. (757) 222-1500
SURVEYED BY: DATE: Rhee_Associates, Inc. (757) 306-4260
DESIGN BY: HDB_Engineering, Inc.
SUBSURFACE UTILITY BY: DATE: N/A

EROSION AND SEDIMENT CONTROL PLAN

REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA.	64	0064-121-418, P101	36C

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER



In. P.I. 6" CPP (Underdrain)
Inv. = 18.36'
In. P.I. 42" RCP
Inv. = 14.45'

In. P.I. 42" RCP
Inv. = 14.45'

In. P.I. 42" RCP
Inv. = 13.57'
Power Pole
Abandoned
In. P.I. FES 24" RCP
Inv. = 15.72'

In. P.I. FES 18" RCP
Inv. = 15.59'

In. P.I. FES 24" RCP
Inv. = 14.82'

In. P.I. Metal Grate
Rim = 20.17'
CL Str. = 16.57'
In. P.I. 6" CPP
Inv. = 17.52' (A)
In. P.I. 6" CPP
Inv. = 17.52' (B)
In. P.I. Unknown Pipe
Inv. = 16.57' (C)

In. P.I. Metal Grate
Rim = 19.97'
CL Str. = 16.87'
In. P.I. 18" RCP
Inv. = 16.67' (A)
In. P.I. Unknown Pipe
Inv. = 16.97' (B)

In. P.I. Metal Grate
Rim = 20.08'
CL Str. = 16.08'
In. P.I. 18" RCP
Inv. = 16.08' (A)

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

1 Inlet Protection Type B shall protect the entire length of trench drain

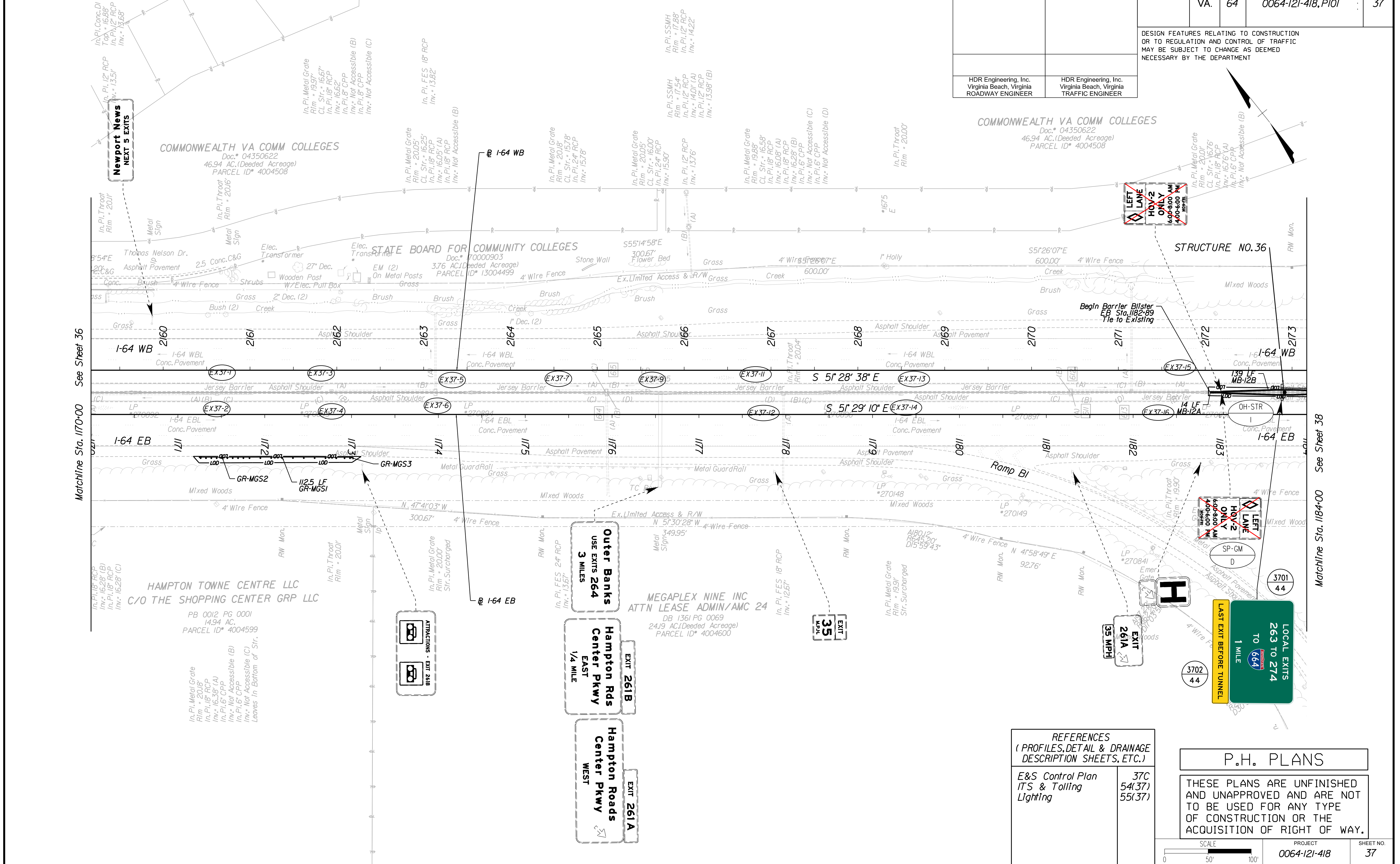
PROJECT MANAGER: *Erin Eoley, P.E.* (757) 222-1500
SURVEYED BY, DATE: *Rhine Associates, Inc.* (757) 306-4260
DESIGN BY: *HDR, Engineer/Inc.*
SUBSURFACE UTILITY BY, DATE: *MZA*

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	37

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
ROADWAY ENGINEER

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER



Matchline Sta. 1170+00 See Sheet 36

Matchline Sta. 1184+00 See Sheet 38

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

E&S Control Plan 37C
ITS & Tolling 54(37)
Lighting 55(37)

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

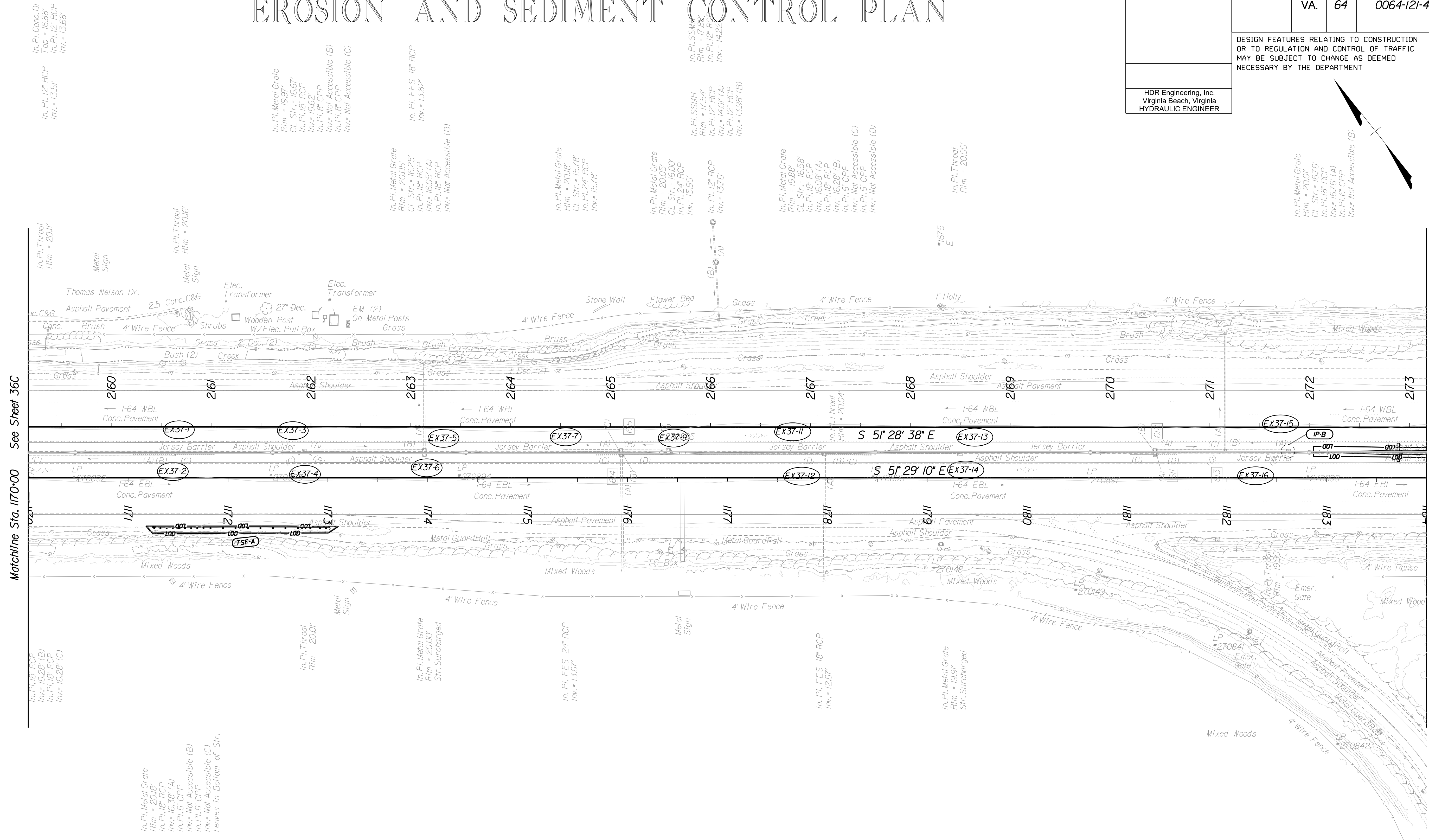
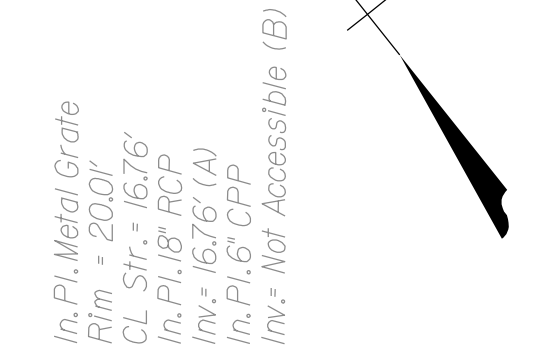
PROJECT MANAGER: ErIn_Eoley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice_Associates, Inc. (757) 306-4260
DESIGN BY: HDR_Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: MZA

EROSION AND SEDIMENT CONTROL PLAN

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	37C

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER



In. Pl. Metal Grate
Rim = 20.18'
In. Pl. 18" RCP
Inv. = 16.38' (A)
In. Pl. 6" CPP
Inv. = Not Accessible (B)
In. Pl. 6" CPP
Inv. = Not Accessible (C)
Leaves In Bottom of Str.

Inlet Protection Type B shall protect the entire length of trench drain

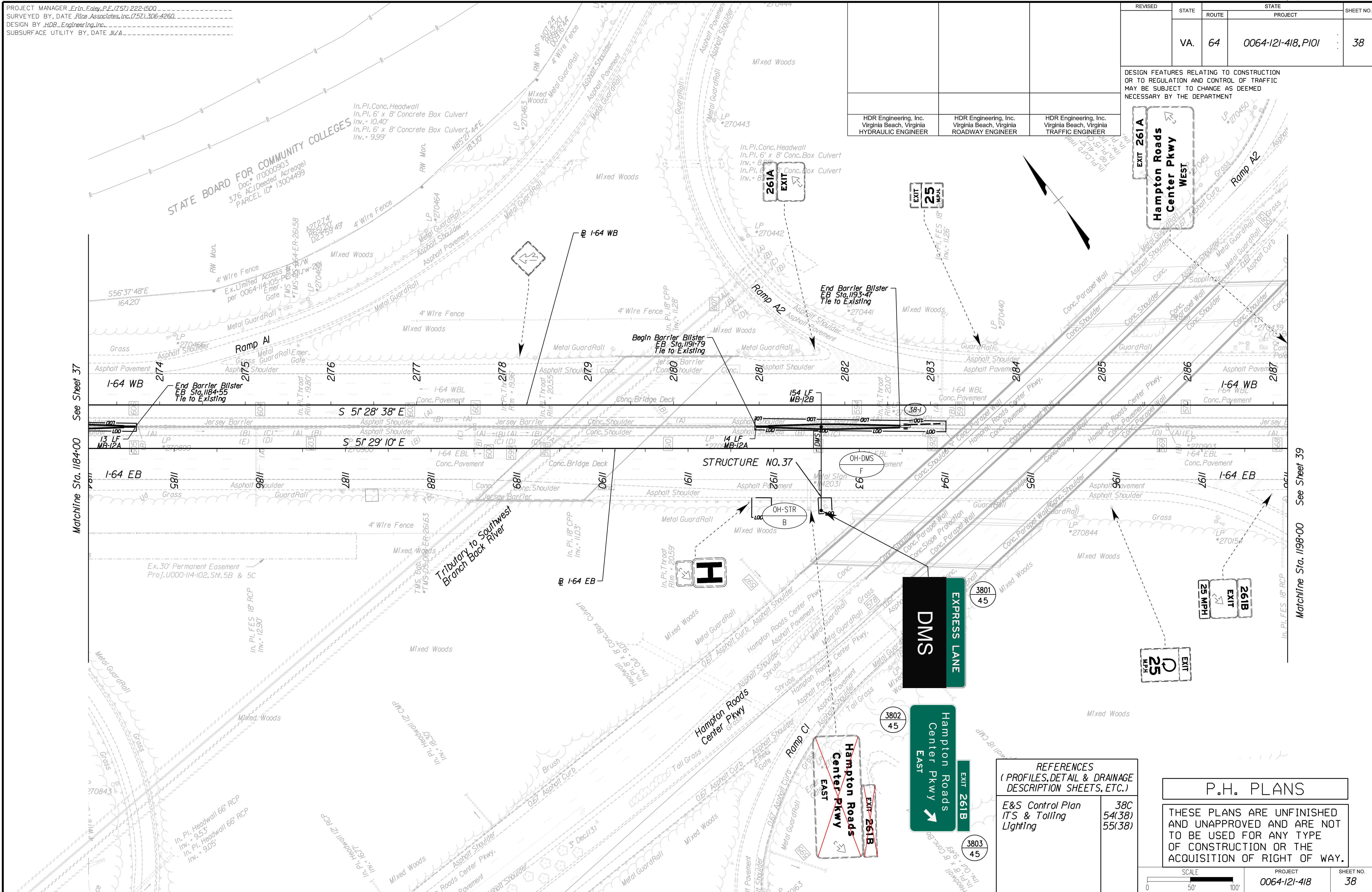
P.H. PLANS
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY: DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR Engineering, Inc.
SUBSURFACE UTILITY BY: DATE: MZA

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	64		0064-121-418, P101	38

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc. Virginia Beach, Virginia HYDRAULIC ENGINEER	HDR Engineering, Inc. Virginia Beach, Virginia ROADWAY ENGINEER	HDR Engineering, Inc. Virginia Beach, Virginia TRAFFIC ENGINEER
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REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

E&S Control Plan
ITS & Tolling
Lighting

38C
54(38)
55(38)

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

SCALE 0 50 100'	PROJECT 0064-121-418	SHEET NO. 38
--------------------	-------------------------	-----------------

PROJECT MANAGER: Erin Eoley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: N/A

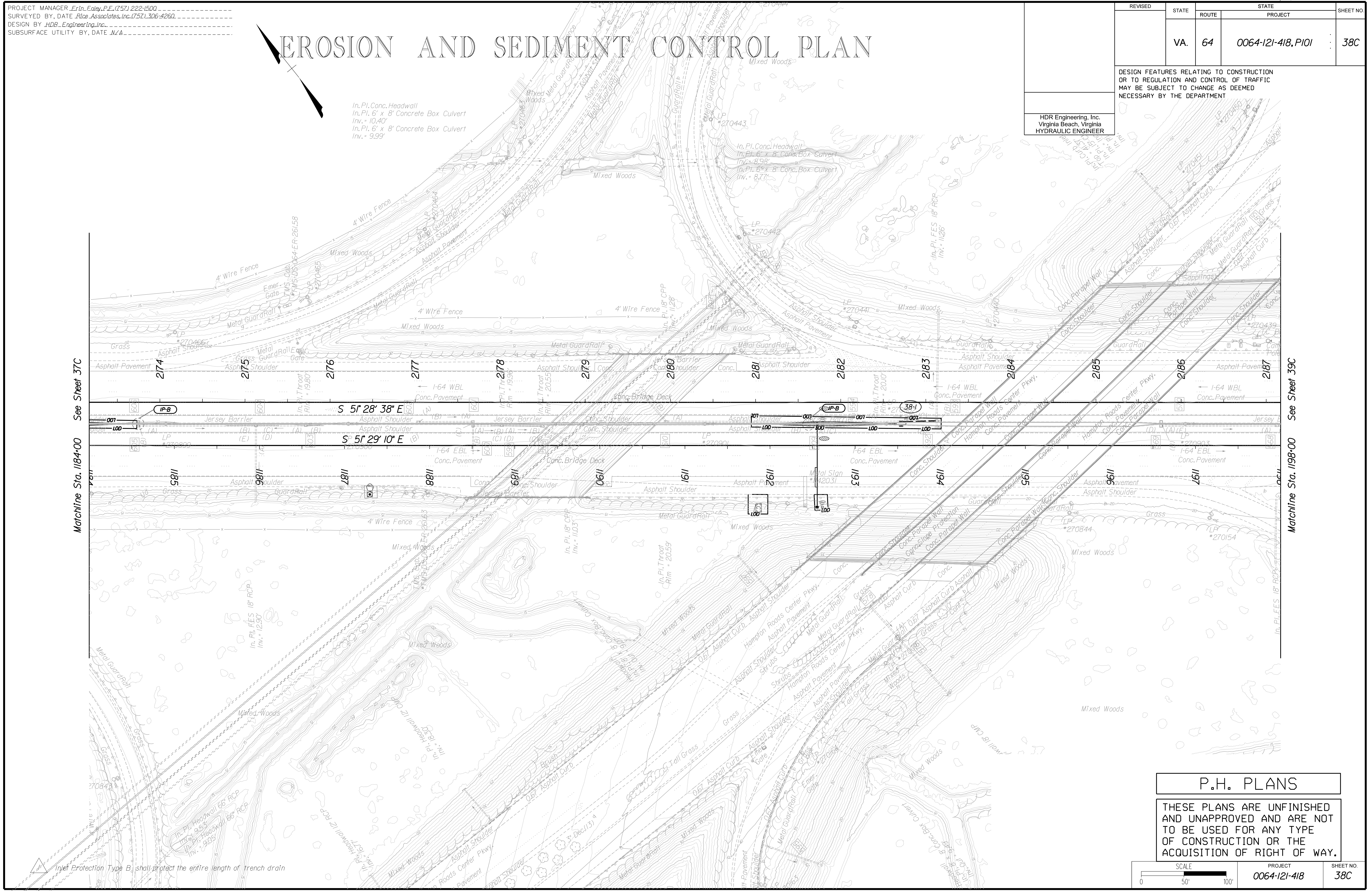
EROSION AND SEDIMENT CONTROL PLAN

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	64		0064-121-418, P101	38C

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER

In. Pl. Conc. Headwall
In. Pl. 6' x 8' Concrete Box Culvert
Inv. = 10.40
In. Pl. 6' x 8' Concrete Box Culvert
Inv. = 9.99



Matchline Sta. 1184+00 See Sheet 37C

Matchline Sta. 1198+00 See Sheet 39C

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

SCALE 0 50 100'	PROJECT 0064-121-418	SHEET NO. 38C
--------------------	-------------------------	------------------

Inlet Protection Type B shall protect the entire length of trench drain

PROJECT MANAGER: Erin Foley, P.E. (757) 222-1500
SURVEYED BY: DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDR Engineering, Inc.
SUBSURFACE UTILITY BY: DATE: MZA

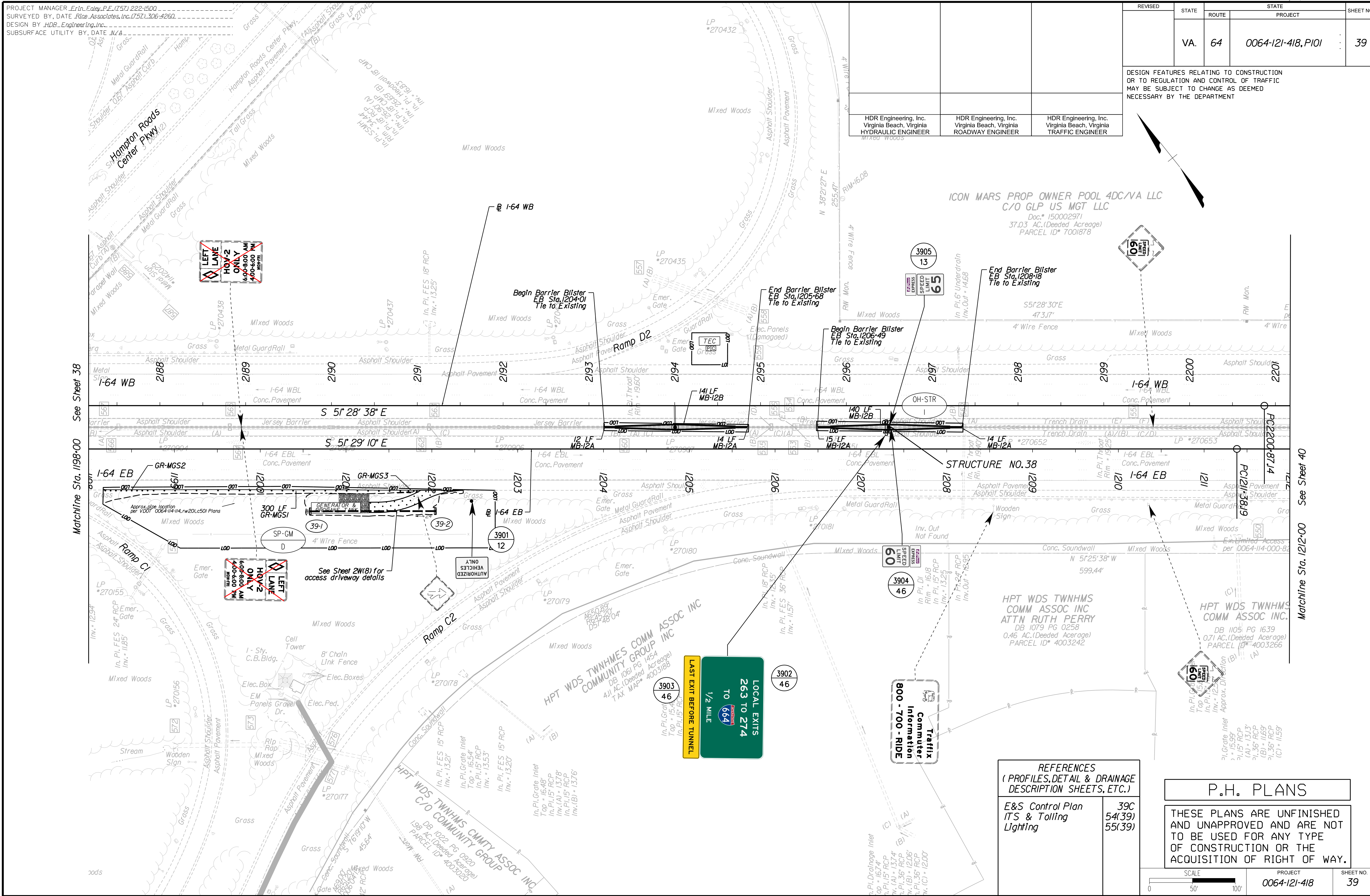
REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	39

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER

HDR Engineering, Inc.
Virginia Beach, Virginia
ROADWAY ENGINEER

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER



Matchline Sta. 1198+00 See Sheet 38

Matchline Sta. 1212+00 See Sheet 40

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

E&S Control Plan ITS & Tolling Lighting	39C 54(39) 55(39)
---	-------------------------

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

LOCAL EXITS
263 TO 274
TO 664
1/2 MILE

LAST EXIT BEFORE TUNNEL

Trafflix
Information
800-700-RIDE

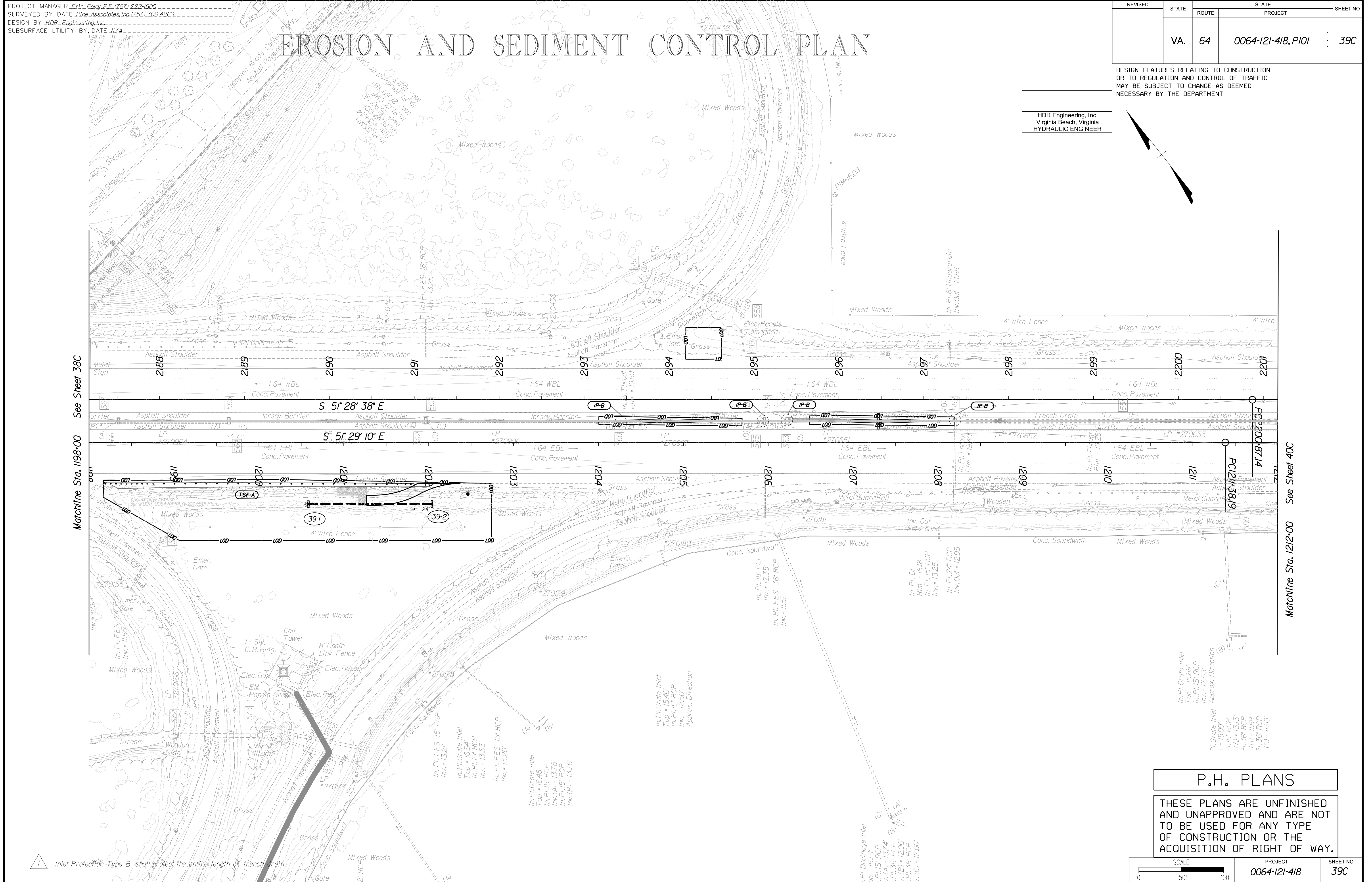
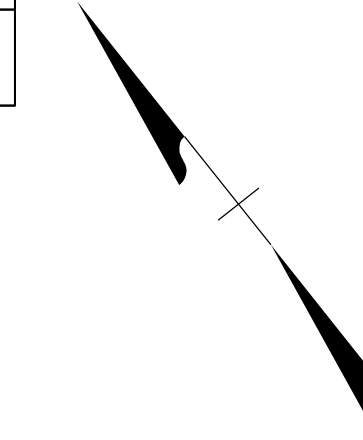
PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDB, Engineer Inc.
SUBSURFACE UTILITY BY, DATE: MZA

EROSION AND SEDIMENT CONTROL PLAN

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	64		0064-121-418, P101	39C

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER



Matchline Sta. 198+00 See Sheet 38C

Matchline Sta. 1212+00 See Sheet 40C

Inlet Protection Type B shall protect the entire length of trench drain

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROJECT MANAGER: Erin Eoley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineer Inc.
SUBSURFACE UTILITY BY, DATE: MZA

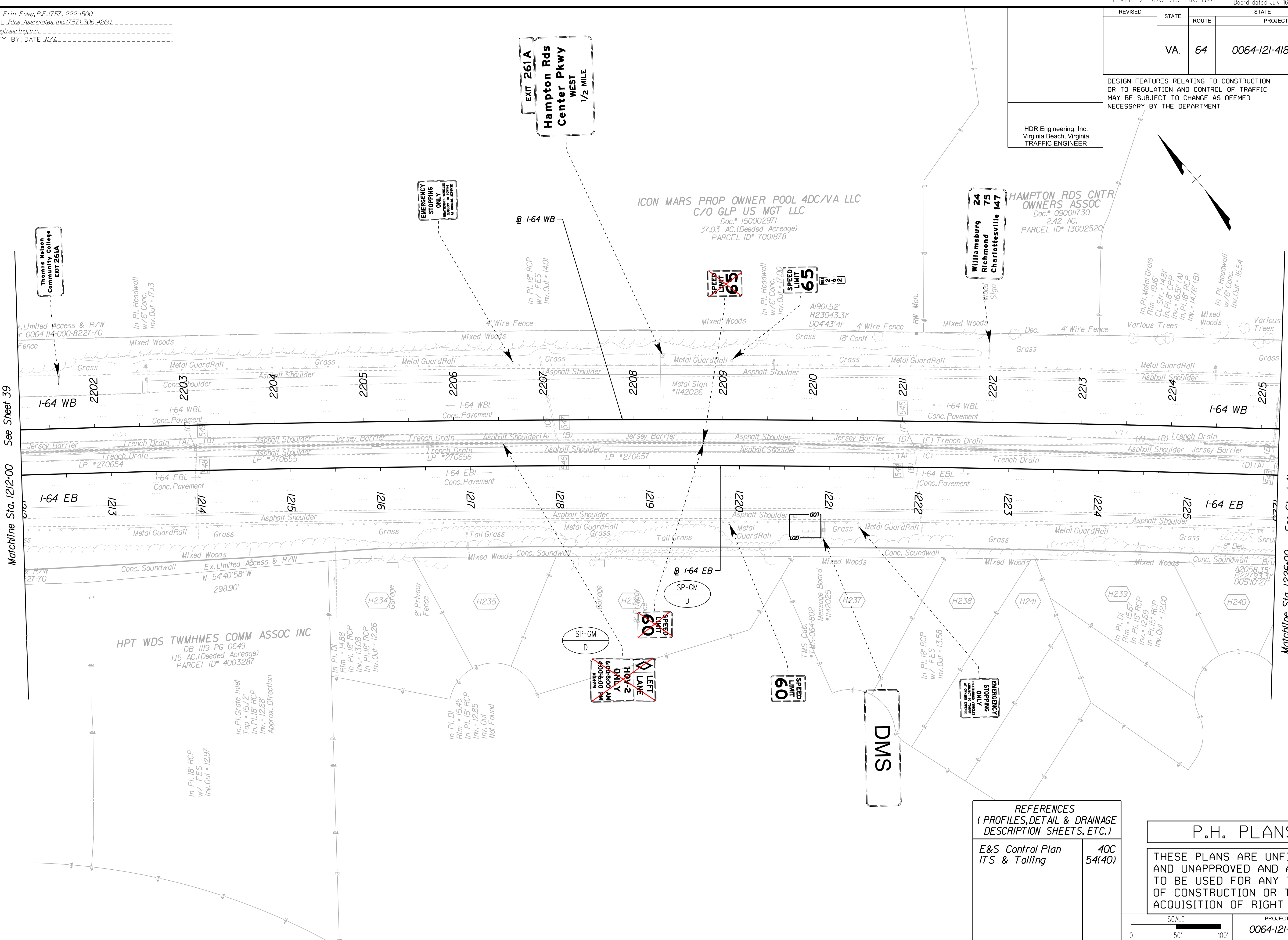
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	40

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER

HAMPTON RDS CNTR OWNERS ASSOC
Doc # 09001730
2.42 AC.
PARCEL ID # 13002520

ICON MARS PROP OWNER POOL ADC/VA LLC
C/O GLP US MGT LLC
Doc # 150002971
37.03 AC. (Deeded Acreage)
PARCEL ID # 7001878



Matchline Sta. 1212+00 See Sheet 39

Matchline Sta. 1226+00 See Sheet 41

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

E&S Control Plan ITS & Tolling 40C 54(40)

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

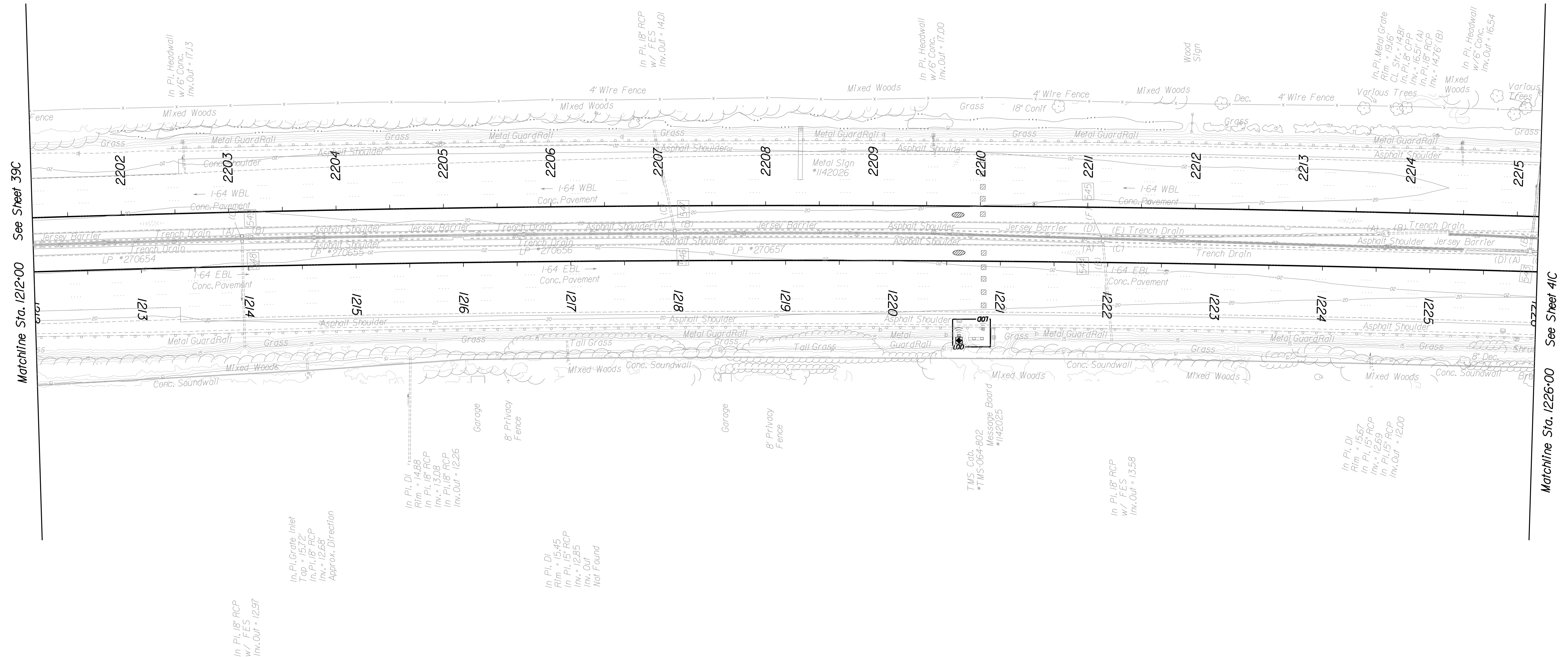
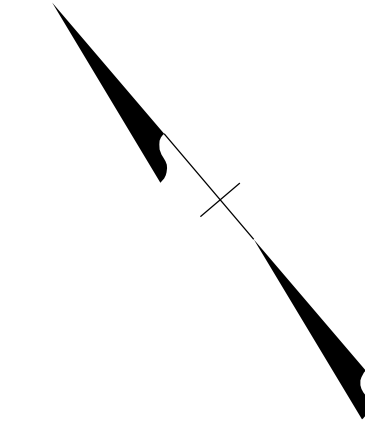
PROJECT MANAGER: *Erin Eoley, P.E.* (757) 222-1500
SURVEYED BY, DATE: *Rhine Associates, Inc.* (757) 306-4260
DESIGN BY: *HDR, Engineering, Inc.*
SUBSURFACE UTILITY BY, DATE: *MZA*

EROSION AND SEDIMENT CONTROL PLAN

REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA.	64	0064-121-418, P101	40C

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER



Matchline Sta. 1212+00 See Sheet 39C

Matchline Sta. 1226+00 See Sheet 41C

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

Inlet Protection Type B shall protect the entire length of trench drain

PROJECT MANAGER: Erin Foley, P.E. (757) 222-1500
SURVEYED BY: DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineer Inc., Inc.
SUBSURFACE UTILITY BY: DATE: MZA

Curve 164WB8
PI • 2219+23.78
DELTA • 9° 15' 04.97" (RT)
D • 0' 15' 09"
T • 1,836.64'
L • 3,665.30'
R • 22,700.00'
PC • 2200+87.14
PT • 2237+52.44
V • 70 mph

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	64		0064-121-418, P101	41

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

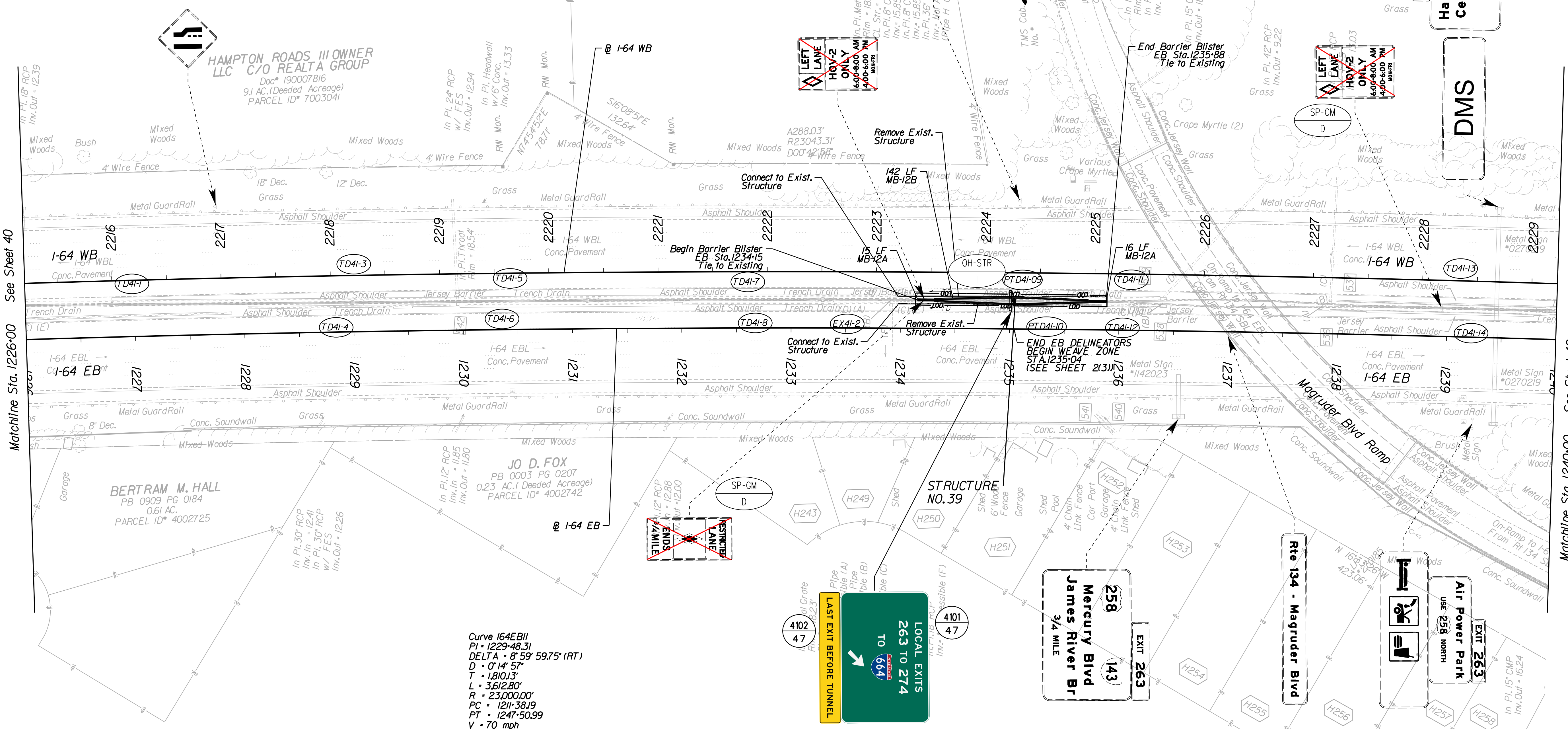
HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER

HDR Engineering, Inc.
Virginia Beach, Virginia
ROADWAY ENGINEER

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER

ECONOMIC DEVELOPMENT AUTHORITY
Doc# 130012554
10.44 AC. (Deeded Acreage)
PARCEL ID# 1300305

HAMPTON ROADS III OWNER
LLC C/O REALTA GROUP
Doc# 190007816
9J AC. (Deeded Acreage)
PARCEL ID# 7003041



Curve 164EB11
PI • 1229+48.31
DELTA • 8° 59' 59.75" (RT)
D • 0' 14' 57"
T • 1,810.13'
L • 3,612.80'
R • 23,000.00'
PC • 1211+38.19
PT • 1247+50.99
V • 70 mph

H249
JAVIER E. MURILLO
Doc# 170014363
0.29 AC. (Deeded Acreage)
PARCEL ID# 4002172

H250
TRACY L. TART
Doc# 090009214
0.17 AC. (Deeded Acreage)
PARCEL ID# 4002173

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

E&S Control Plan ITS & Tolling 41C 54(41)

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

Matchline Sta. 1226+00 See Sheet 40

Matchline Sta. 1240+00 See Sheet 42

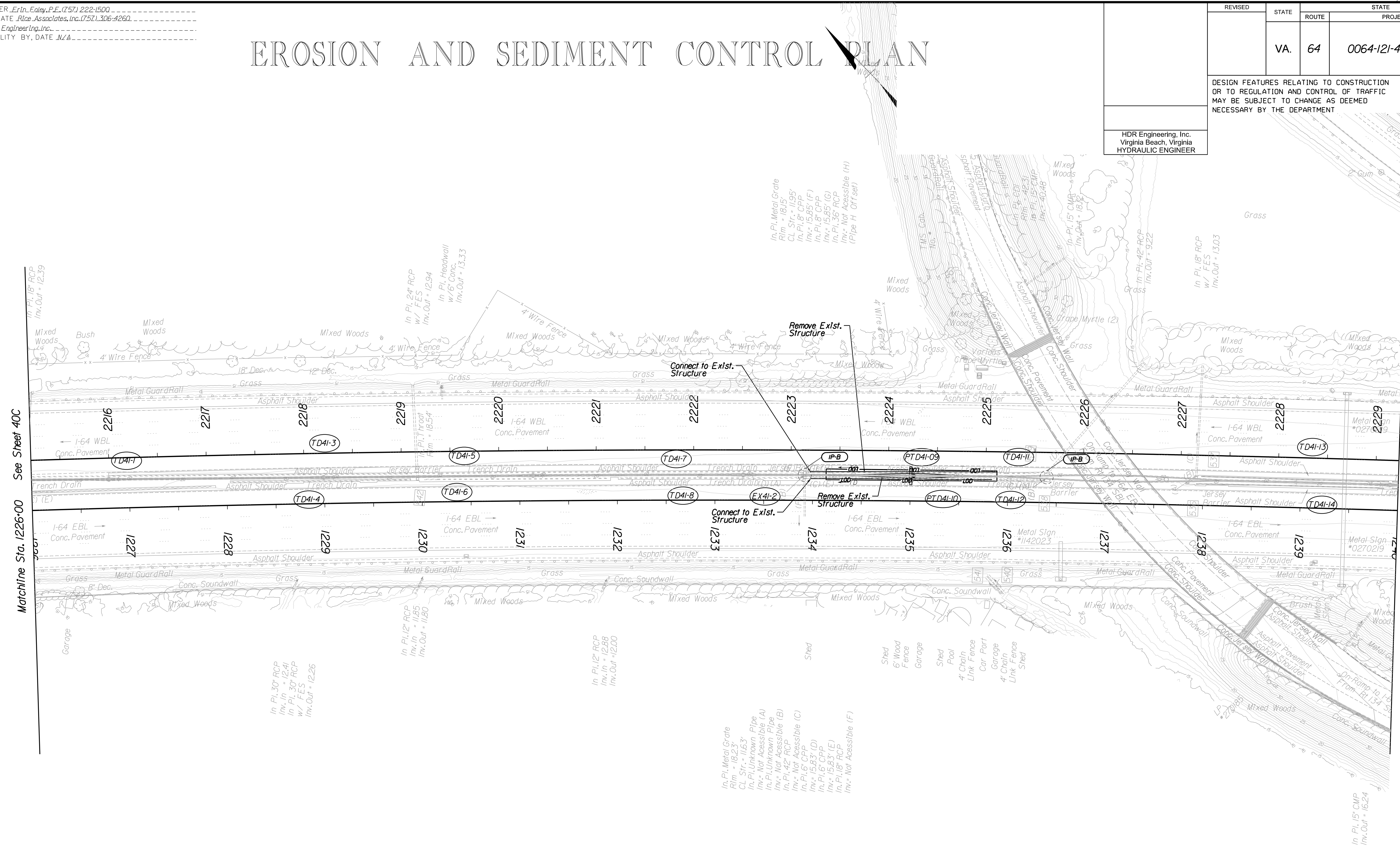
PROJECT MANAGER: *Erin Eoley, P.E.* (757) 222-1500
SURVEYED BY, DATE: *Rise Associates, Inc.* (757) 306-4260
DESIGN BY: *HDR, Engineering, Inc.*
SUBSURFACE UTILITY BY, DATE: *MZA*

EROSION AND SEDIMENT CONTROL PLAN

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	41C

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER



Matchline Sta. 1226+00 See Sheet 40C

Matchline Sta. 1240+00 See Sheet 42C

- In. Pl. Metal Grate
- Rim = 18.23'
- CL Str. = 11.63'
- In. Pl. Unknown Pipe
- Inv. = Not Accessible (A)
- In. Pl. Unknown Pipe
- Inv. = Not Accessible (B)
- In. Pl. 42" RCP
- Inv. = Not Accessible (C)
- In. Pl. 16" CPP
- Inv. = 15.83' (D)
- In. Pl. 16" CPP
- Inv. = 15.83' (E)
- In. Pl. 18" RCP
- Inv. = Not Accessible (F)

- In. Pl. 30" RCP
- Inv. In = 12.41'
- In. Pl. 30" RCP
- w/ FES
- Inv. Out = 12.26'

- In. Pl. 12" RCP
- Inv. In = 11.85'
- Inv. Out = 11.80'

- In. Pl. 12" RCP
- Inv. In = 12.88'
- Inv. Out = 12.00'

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

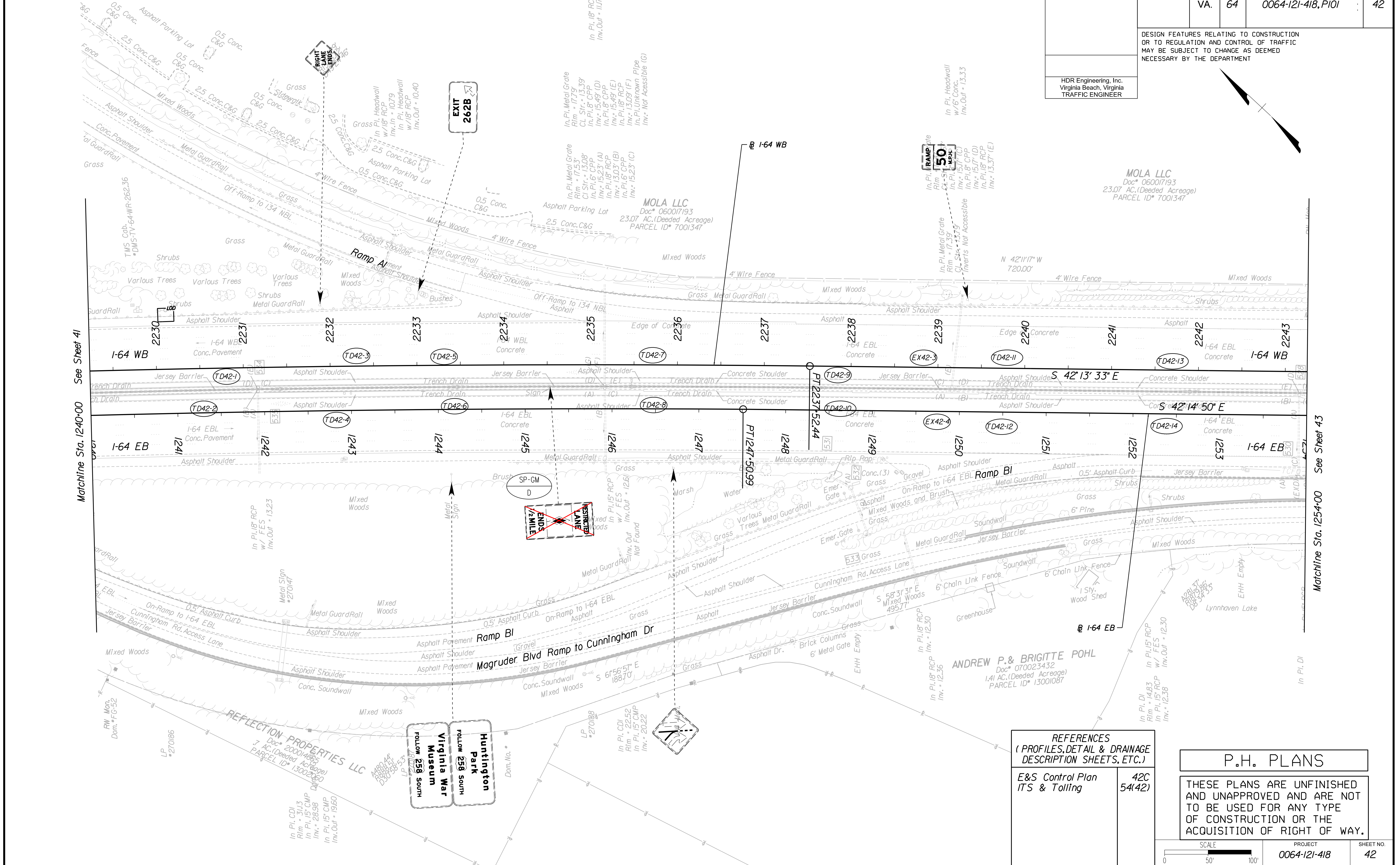
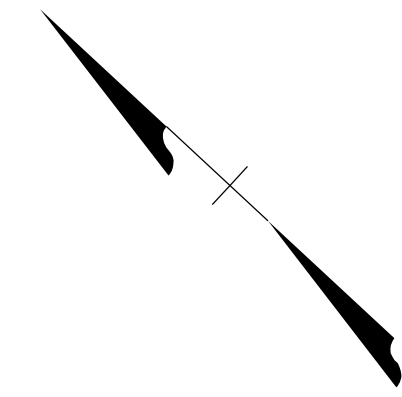
1 Inlet Protection Type B shall protect the entire length of trench drain

PROJECT MANAGER: Erin Eoley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineer/Inc.
SUBSURFACE UTILITY BY, DATE: MZA

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	42

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER



REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

E&S Control Plan ITS & Tolling 42C
54(42)

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

Matchline Sta. 1240+00 See Sheet 41

Matchline Sta. 1254+00 See Sheet 43

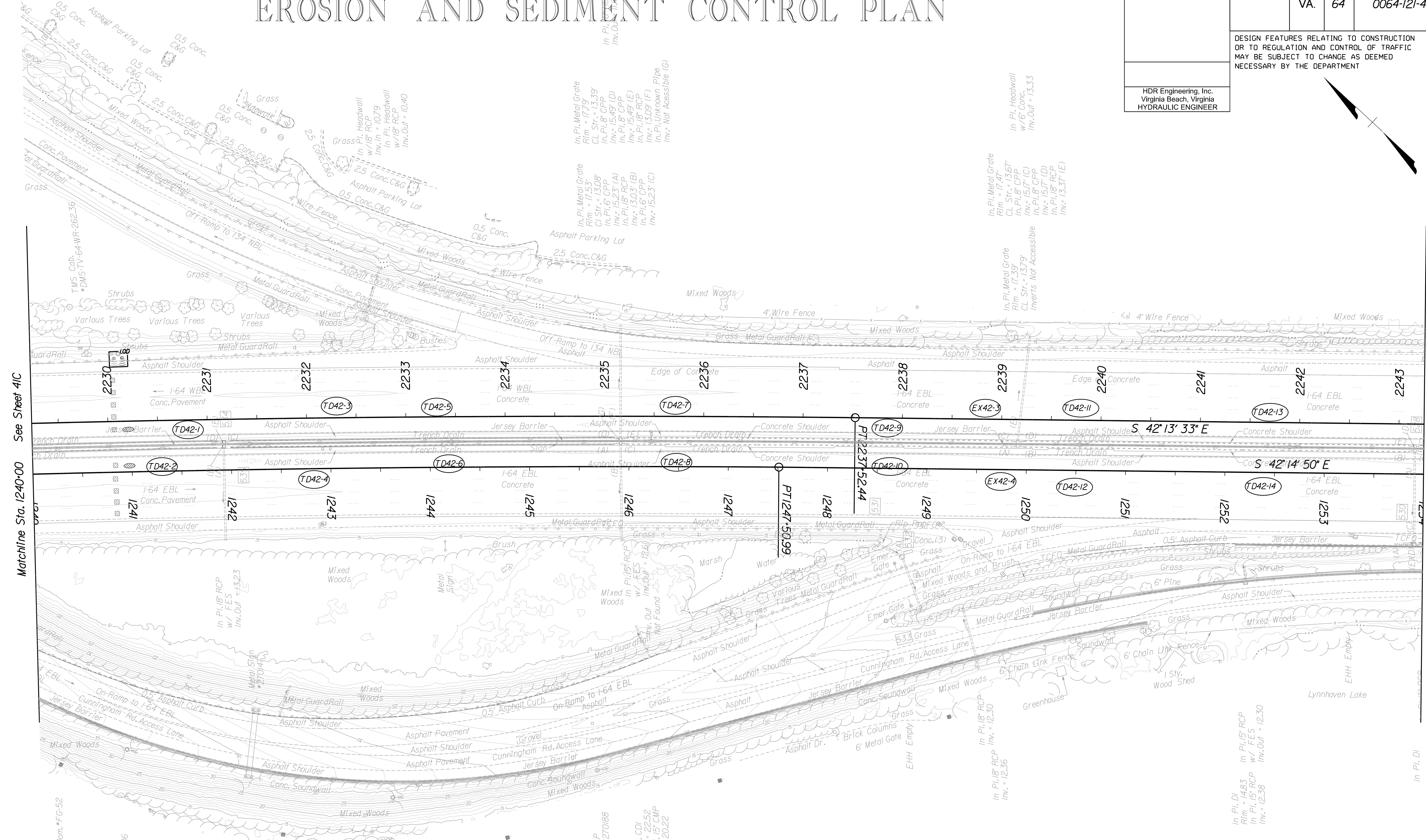
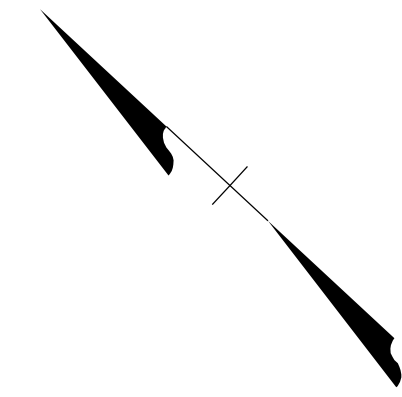
PROJECT MANAGER: Erin Foley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineer/Ingr, Inc.
SUBSURFACE UTILITY BY, DATE: MZA

EROSION AND SEDIMENT CONTROL PLAN

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	64		0064-121-418, P101	42C

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER



Matchline Sta. 1240+00 See Sheet 41C

Matchline Sta. 1254+00 See Sheet 43C

P.H. PLANS
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

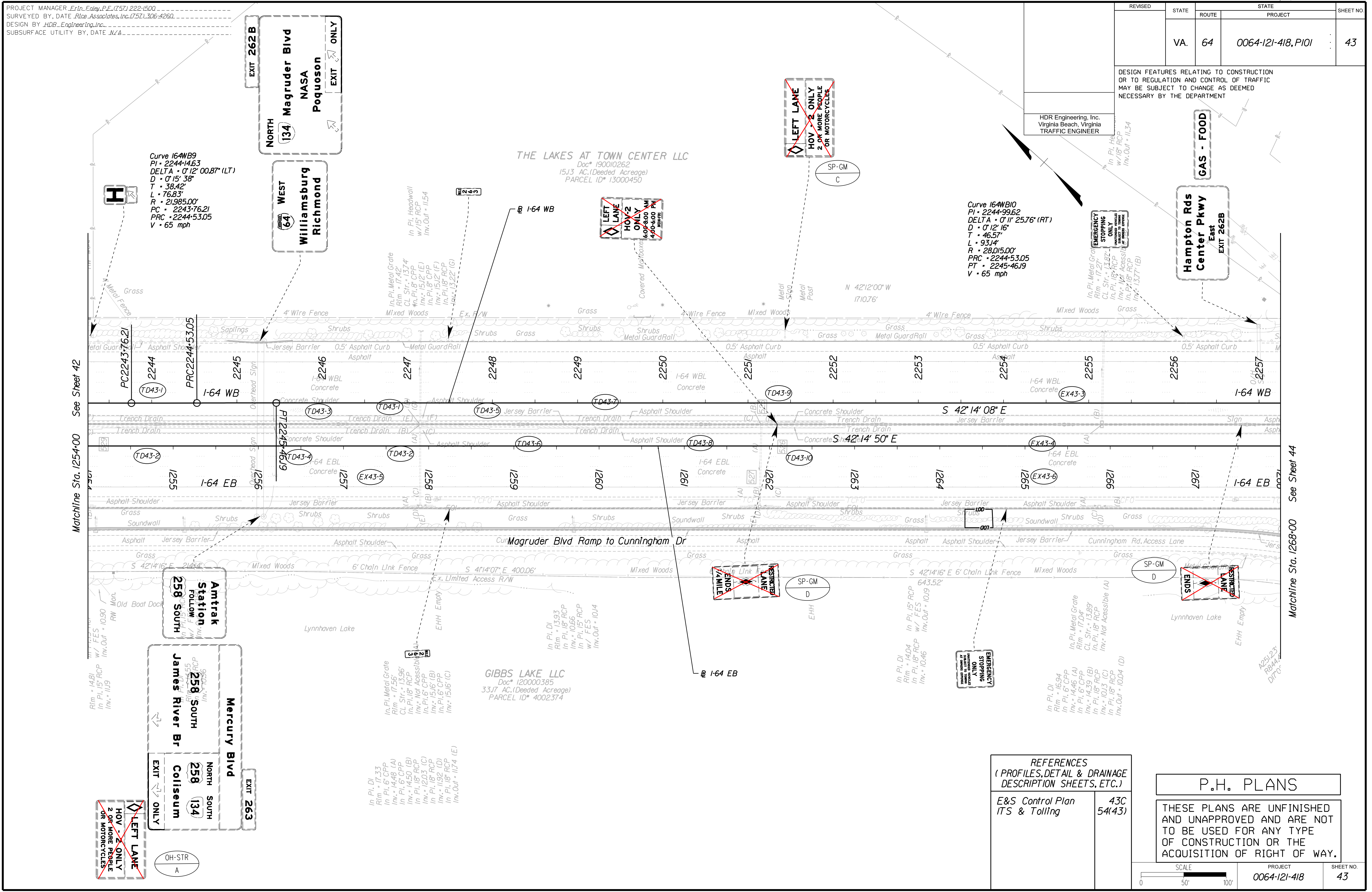
Inlet Protection Type B shall protect the entire length of trench drain

PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineer/Inc.
SUBSURFACE UTILITY BY, DATE: N/A

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	64		0064-121-418, P101	43

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER



Matchline Sta. 1254+00 See Sheet 42

Matchline Sta. 1268+00 See Sheet 44

LEFT LANE
HOV-2 ONLY
2 OR MORE PEOPLE OR MOTORCYCLES

OH-STR
A

EXIT 263
NORTH SOUTH
258
134
Coliseum

Mercury Blvd
258 SOUTH
James River Br

Amtrak Station
258 SOUTH FOLLOW

EXIT 262B
NORTH
134
Magruder Blvd
NASA
Poquoson
EXIT ONLY

WEST
64
Williamsburg
Richmond

EXIT 262B
East
Hampton Rds
Center Pkwy
GAS - FOOD

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

E&S Control Plan ITS & Tolling 43C 54(43)

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

SCALE 0 50 100'	PROJECT 0064-121-418	SHEET NO. 43
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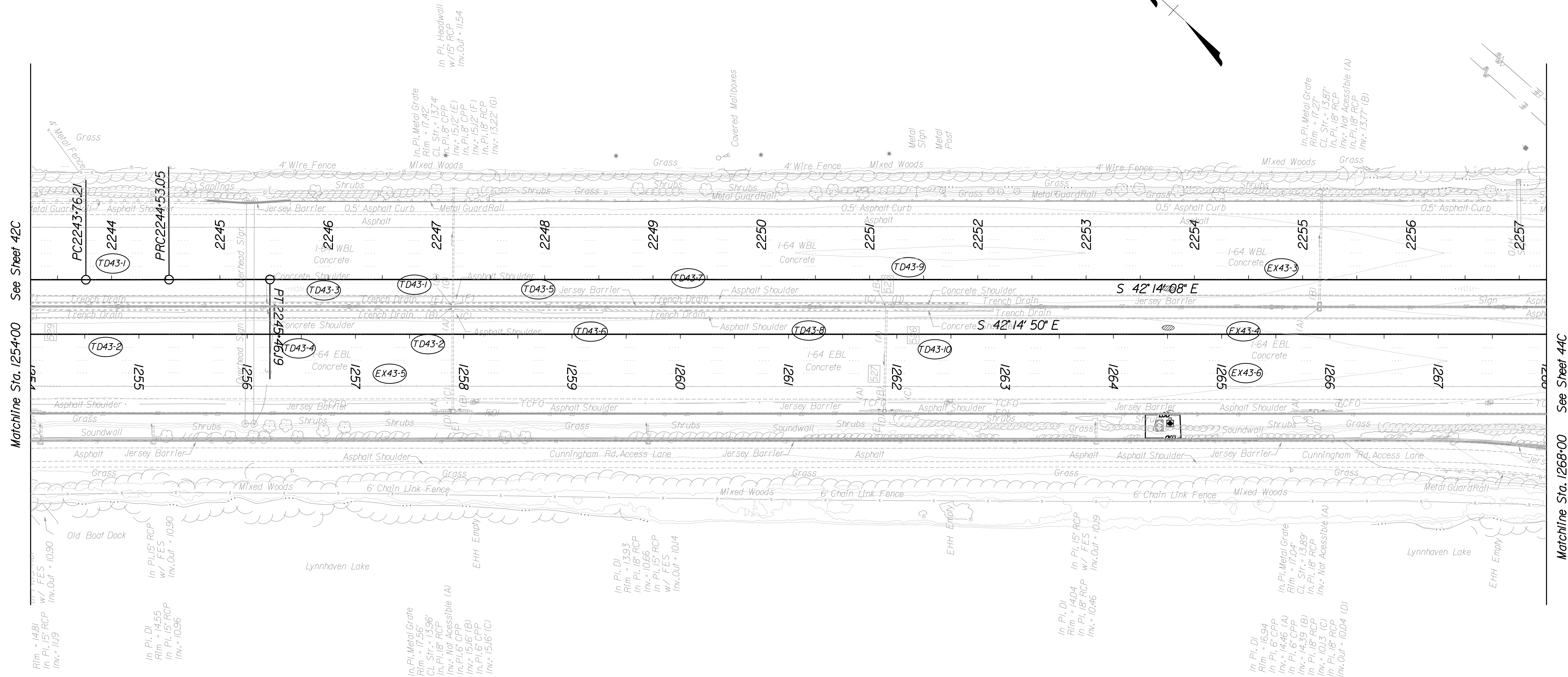
PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY: DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineering, Inc.
SUBSURFACE UTILITY BY: DATE: MZA

EROSION AND SEDIMENT CONTROL PLAN

REVISED	STATE	STATE		SHEET NO.
	ROUTE	PROJECT		
	VA.	64	0064-121-418, P101	43C

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER



Matchline Sta. 1254-00 See Sheet 42C

Matchline Sta. 1268-00 See Sheet 44C

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

1 Inlet Protection Type B shall protect the entire length of trench drain

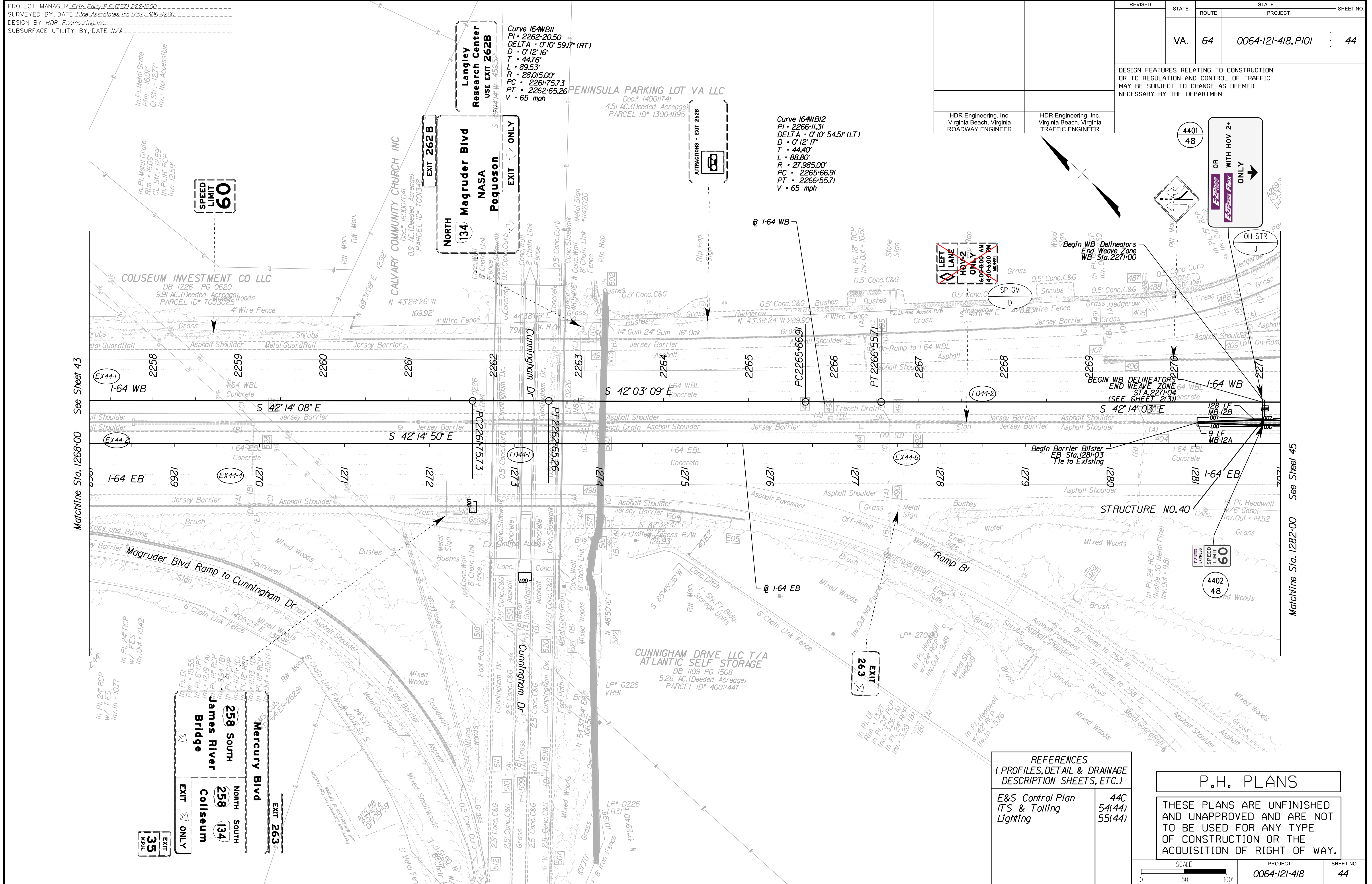
PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY: DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineer/Inc.
SUBSURFACE UTILITY BY: DATE: N/A

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	64		0064-121-418, P101	44

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
ROADWAY ENGINEER

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER



REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

E&S Control Plan 44C
ITS & Tolling 54(44)
Lighting 55(44)

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROJECT MANAGER: *Erin Ealey, P.E.* (757) 222-1500
SURVEYED BY, DATE: *Rhee Associates, Inc.* (757) 306-4260
DESIGN BY: *HDR Engineering, Inc.*
SUBSURFACE UTILITY BY, DATE: *N/A*

EROSION AND SEDIMENT CONTROL PLAN

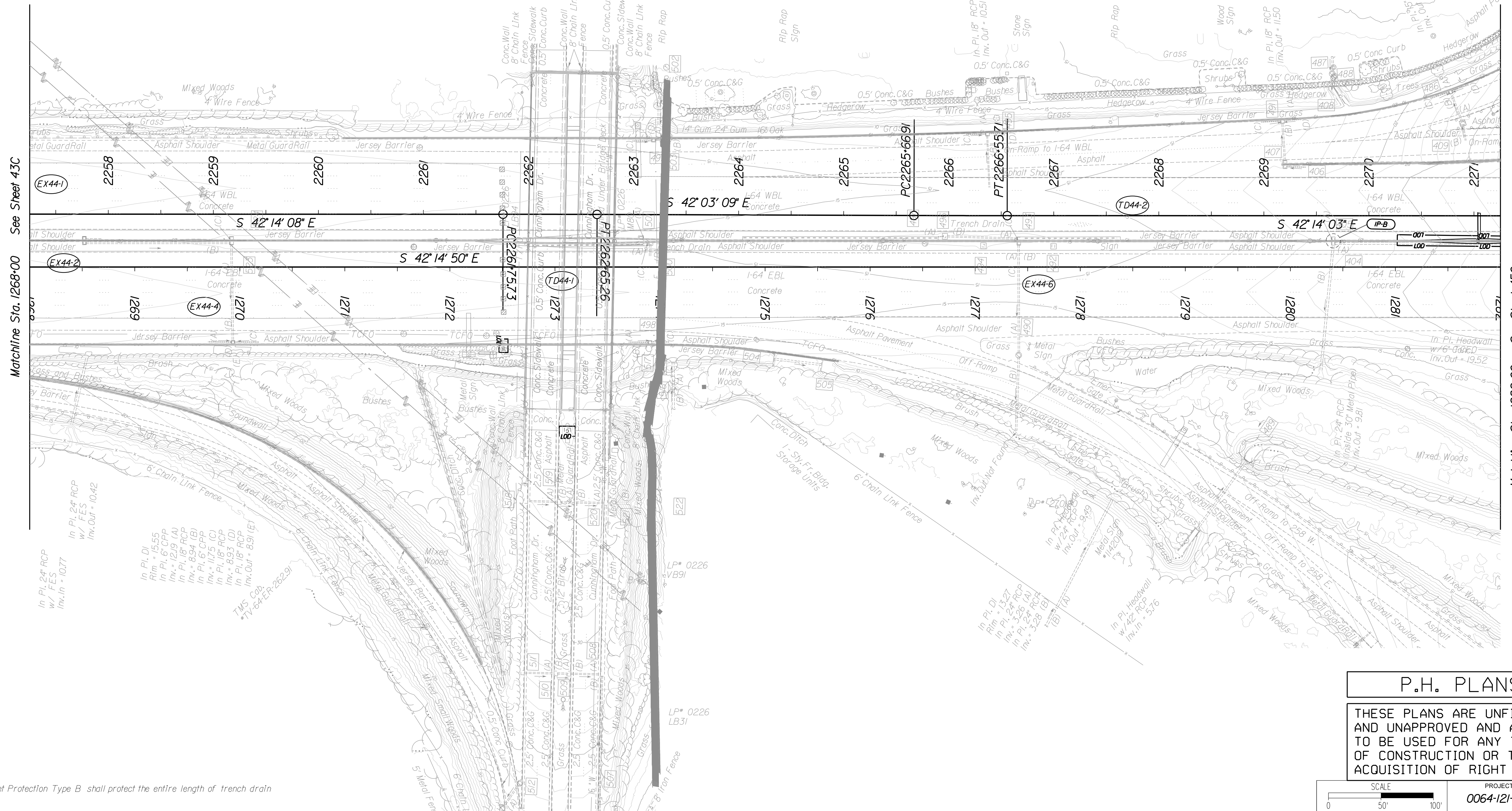
REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	64		0064-121-418, P101	44C

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER

In. Pl. Metal Grate
Rim = 16.07'
CL Str. = 12.77'
Inv. = Not Accessible

In. Pl. Metal Grate
Rim = 16.09'
CL Str. = 12.59'
Inv. = 12.59'



Matchline Sta. 1268+00 See Sheet 43C

Matchline Sta. 1282+00 See Sheet 45C

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

SCALE 0 50 100'	PROJECT 0064-121-418	SHEET NO. 44C
--------------------	-------------------------	------------------

1 Inlet Protection Type B shall protect the entire length of trench drain

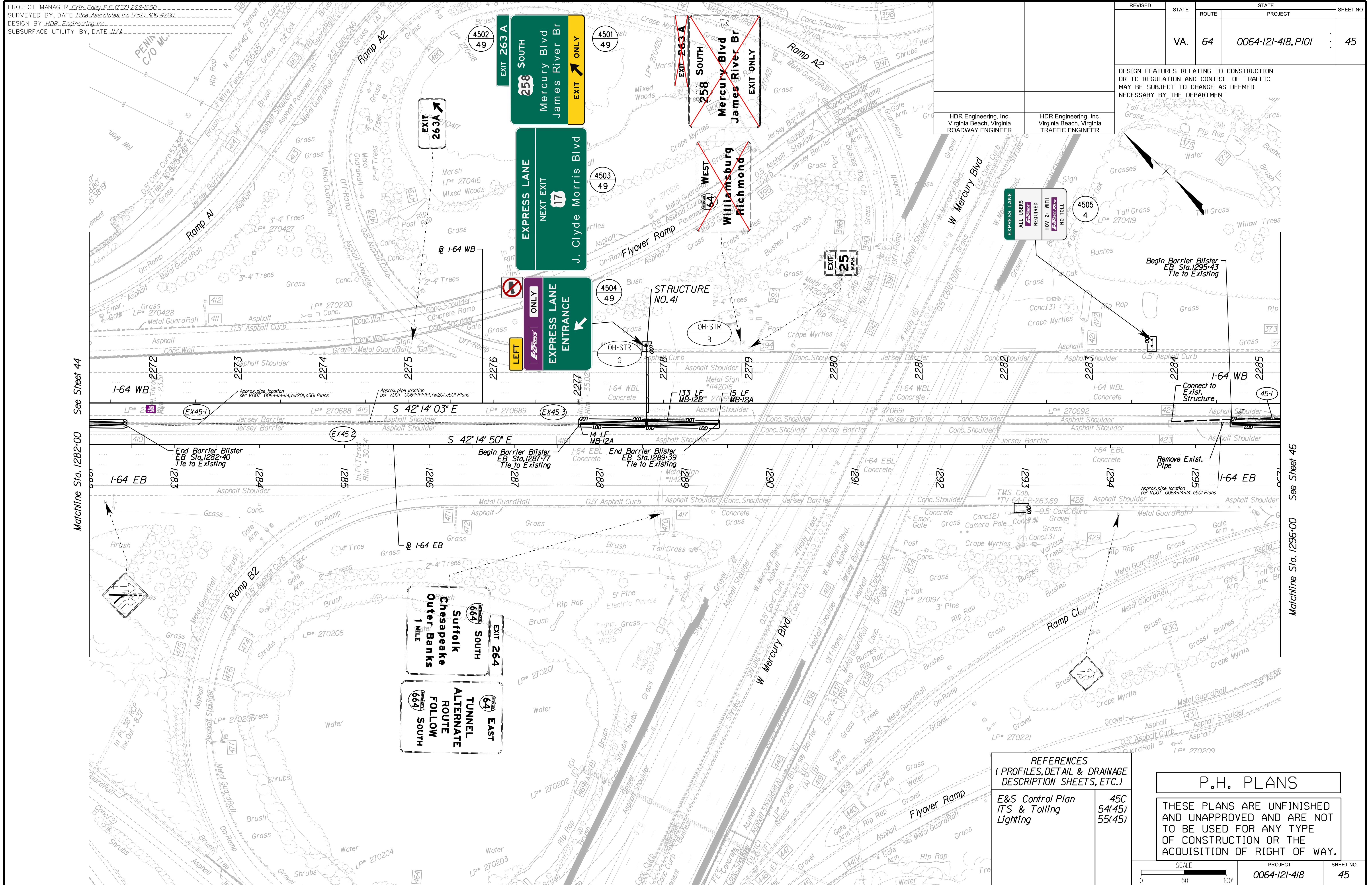
PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY: DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDR Engineering, Inc.
SUBSURFACE UTILITY BY: DATE: N/A

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	64		0064-121-418, P101	45

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
ROADWAY ENGINEER

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER



Matchline Sta. 1282+00 See Sheet 44

Matchline Sta. 1296+00 See Sheet 46

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

E&S Control Plan 45C
ITS & Tolling 54(45)
Lighting 55(45)

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

SCALE 0 50 100'	PROJECT 0064-121-418	SHEET NO. 45
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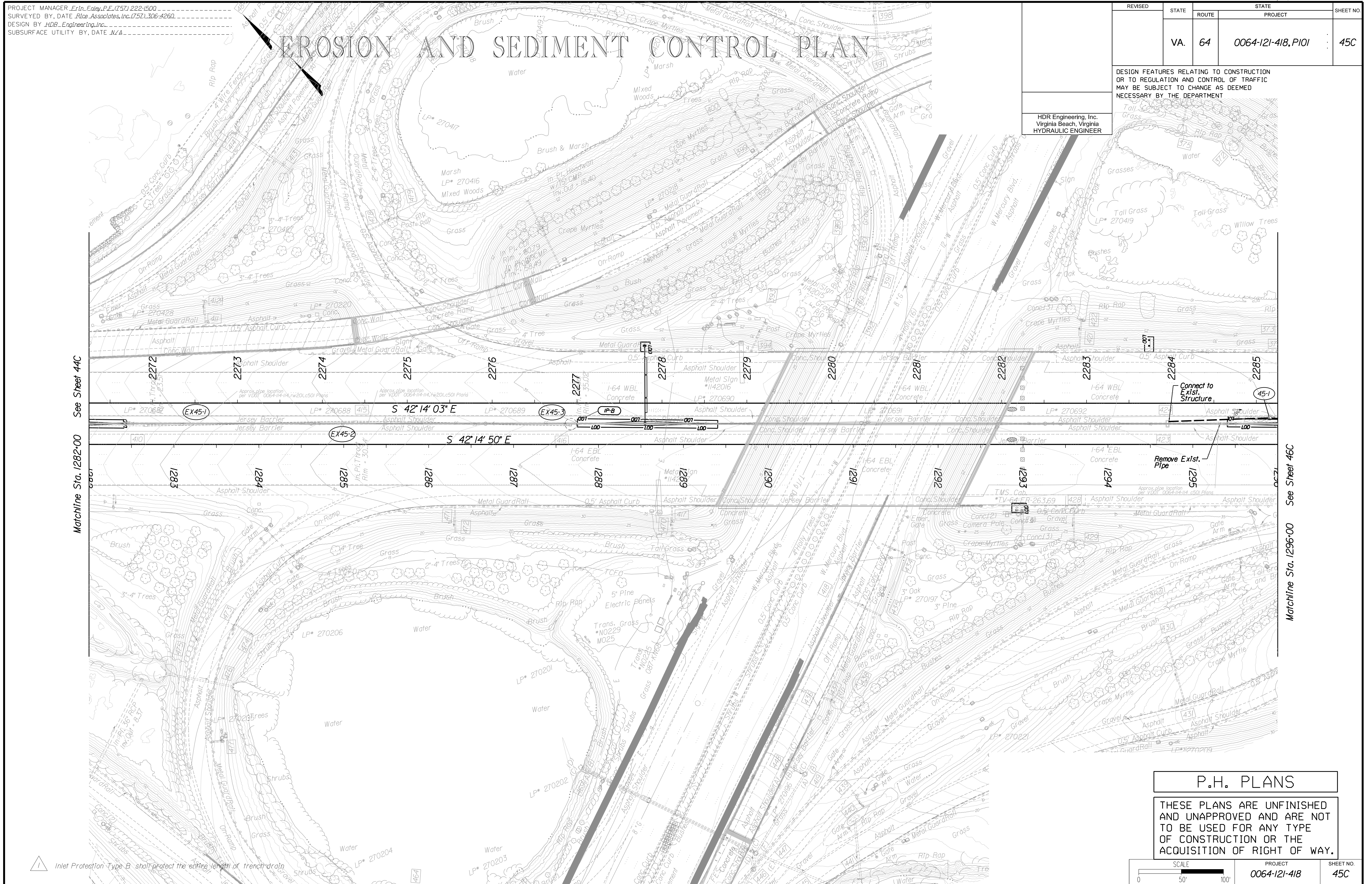
PROJECT MANAGER: Erin Eoley, P.E. (757) 222-1500
SURVEYED BY: DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDR Engineering, Inc.
SUBSURFACE UTILITY BY: DATE: N/A

EROSION AND SEDIMENT CONTROL PLAN

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	64		0064-121-418, P101	45C

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER



Matchline Sta. 1282+00 See Sheet 44C

Matchline Sta. 1296+00 See Sheet 46C

P.H. PLANS
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

SCALE 0 50 100'	PROJECT 0064-121-418	SHEET NO. 45C
--------------------	-------------------------	------------------

Inlet Protection Type B shall protect the entire length of trench drain

PROJECT MANAGER: Erin Foley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: MZA

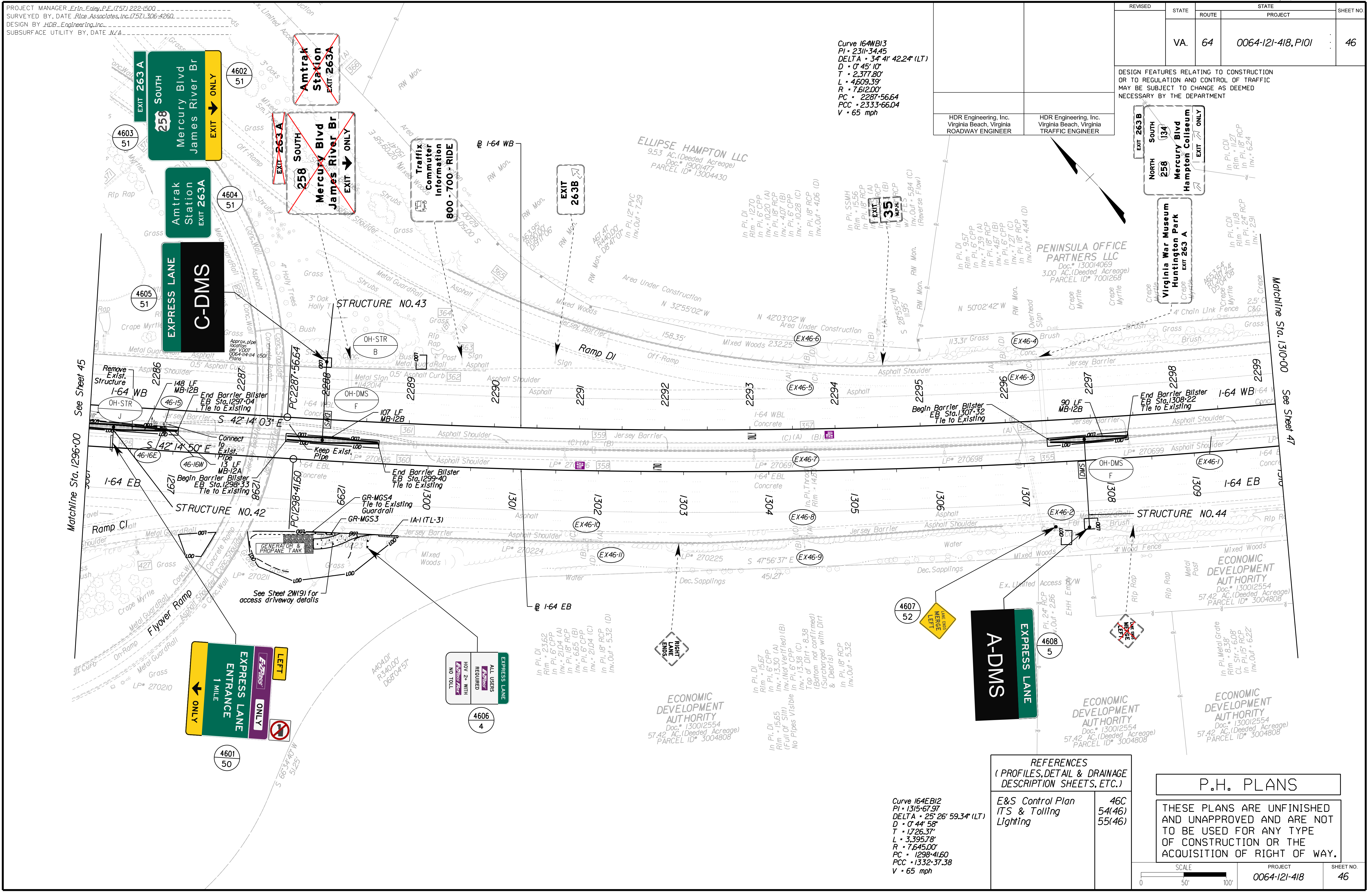
REVISION	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	46

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
ROADWAY ENGINEER

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER

Curve 164WB13
PI • 2311.3445
DELTA • 34° 41' 42.24" (LT)
D • 0' 45' 10"
T • 2,377.80'
L • 4,609.39'
R • 7,612.00'
PC • 2287.5664
PCC • 2333.6604
V • 65 mph



Curve 164EB12
PI • 1315.6797
DELTA • 25° 26' 59.34" (LT)
D • 0' 44' 58"
T • 1,726.37'
L • 3,395.78'
R • 7,645.00'
PC • 1298.4160
PCC • 1332.3738
V • 65 mph

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

E&S Control Plan 46C
ITS & Tolling 54(46)
Lighting 55(46)

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

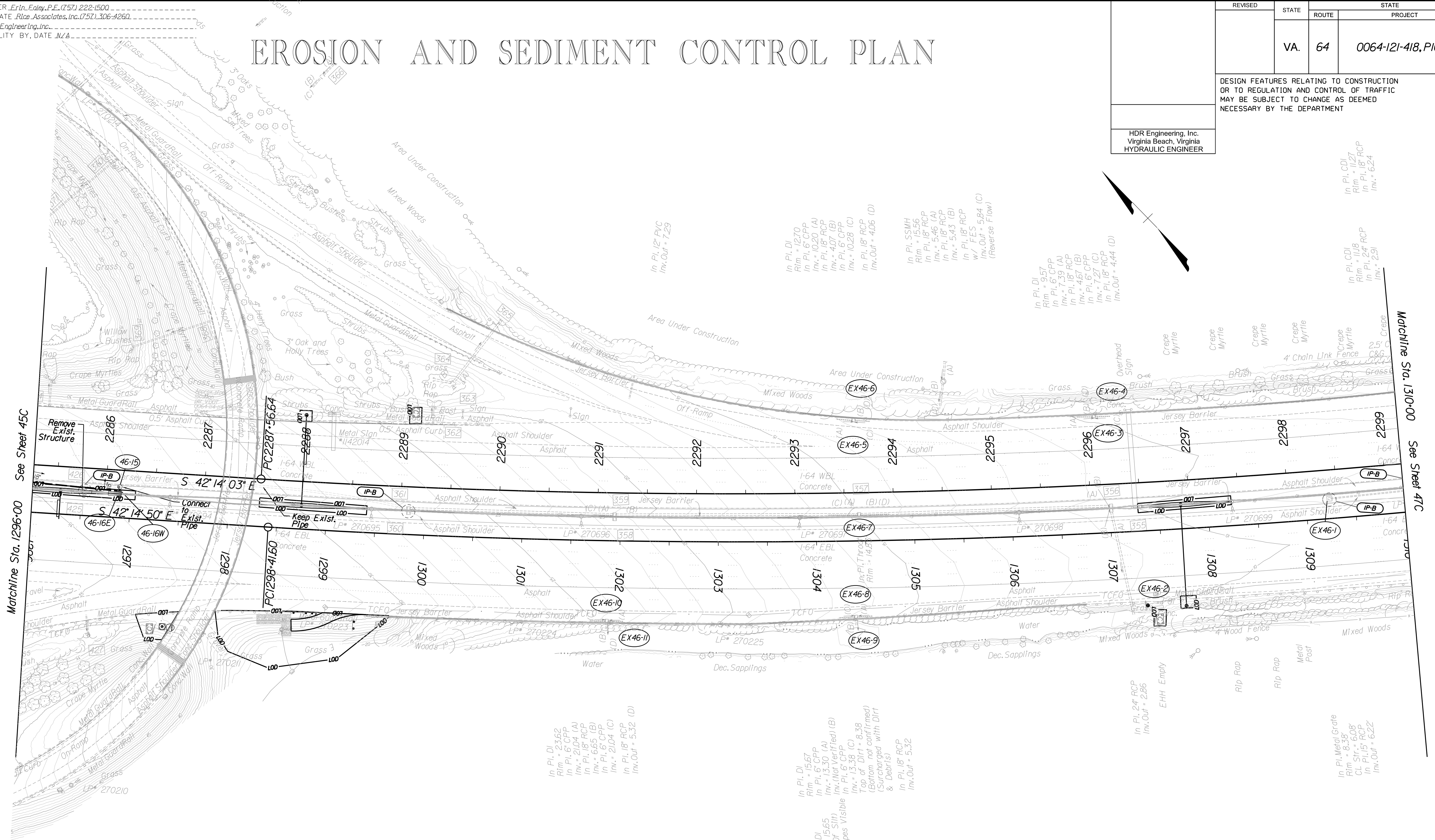
PROJECT MANAGER: Erin Foley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: MZA

EROSION AND SEDIMENT CONTROL PLAN

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	46C

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER



In P.I. DI
Rim = 2.362
In P.I. 6" CPP
Inv. = 2.104 (A)
In P.I. 18" RCP
Inv. = 6.65 (B)
In P.I. 6" CPP
Inv. = 2.104 (C)
In P.I. 18" RCP
Inv. Out = 5.32 (D)

In P.I. DI
Rim = 15.67
In P.I. 6" CPP
Inv. = 13.30 (A)
Inv. (Not Verified) (B)
In P.I. 6" CPP
Inv. = 13.33 (C)
Top of Dirt = 8.38
(Bottom not confirmed)
(Surcharged with Dirt
& Debris)
In P.I. 18" RCP
Inv. Out = 5.32

In P.I. DI
Rim = 9.57
In P.I. 6" CPP
Inv. = 7.39 (A)
In P.I. 18" RCP
Inv. = 4.67 (B)
In P.I. 6" CPP
Inv. = 7.27 (C)
In P.I. 18" RCP
Inv. Out = 4.44 (D)

In P.I. DI
Rim = 12.70
In P.I. 6" CPP
Inv. = 10.20 (A)
In P.I. 18" RCP
Inv. = 4.07 (B)
In P.I. 6" CPP
Inv. = 10.28 (C)
In P.I. 18" RCP
Inv. Out = 4.06 (D)

In P.I. SSMH
Rim = 15.56
In P.I. 18" RCP
Inv. = 5.46 (A)
In P.I. 18" RCP
Inv. = 5.43 (B)
In P.I. 18" RCP
w/ FES
Inv. Out = 5.84 (C)
(Reverse Flow)

In P.I. CDI
Rim = 11.27
In P.I. 18" RCP
Inv. = 6.24

In P.I. CDI
Rim = 11.18
In P.I. 24" RCP
Inv. = 2.91

In P.I. 24" RCP
Inv. Out = 2.86
EHH Empty

In P.I. Metal Grade
Rim = 8.38
CL Str. = 6.08
In P.I. 15" RCP
Inv. Out = 6.22

Inlet Protection Type B shall protect the entire length of trench drain

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROJECT MANAGER: Erin Eoley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineer Inc.
SUBSURFACE UTILITY BY, DATE: MZA

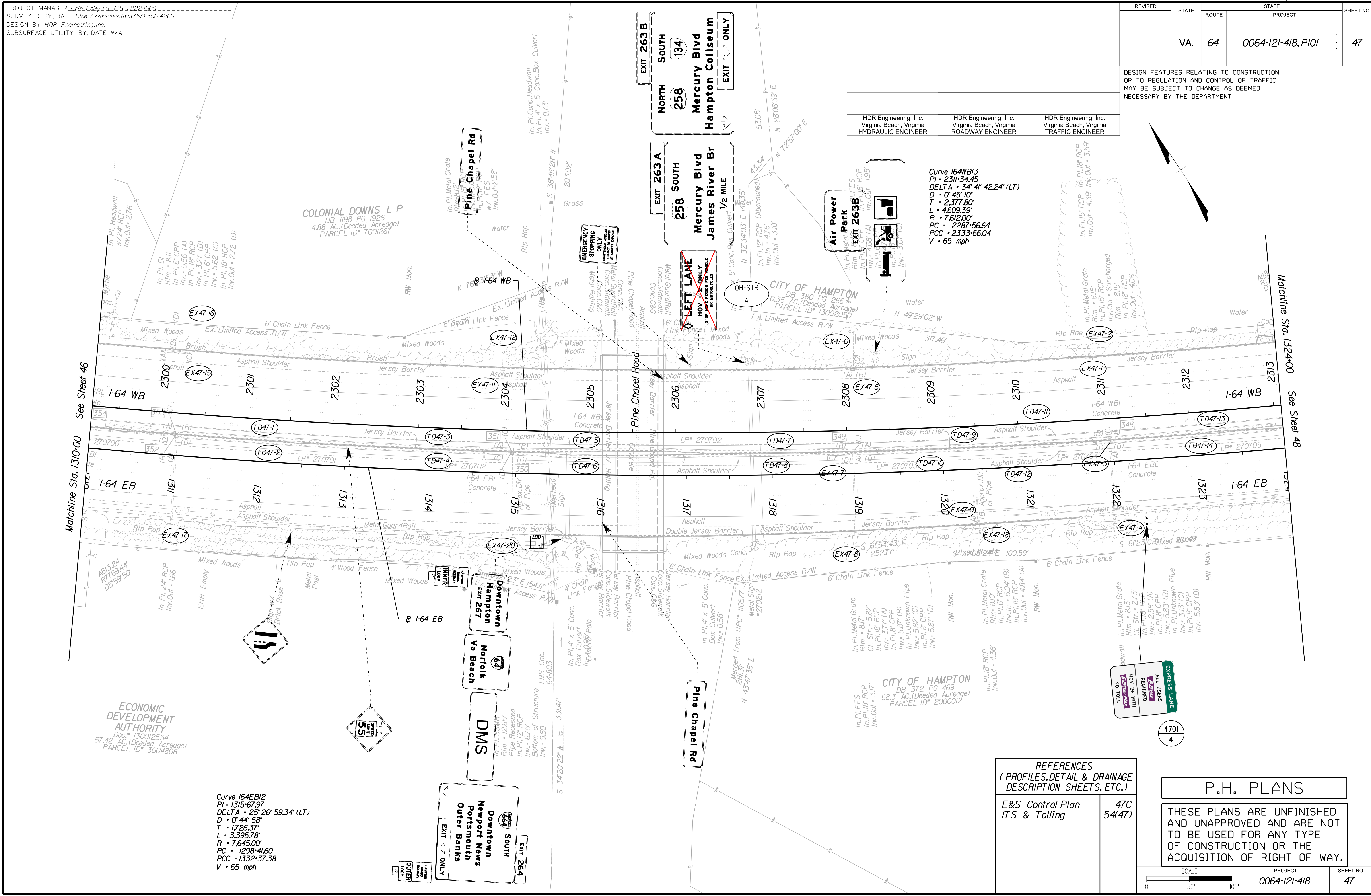
REVISION	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	47

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER

HDR Engineering, Inc.
Virginia Beach, Virginia
ROADWAY ENGINEER

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER



REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

E&S Control Plan ITS & Tolling 47C
54(47)

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

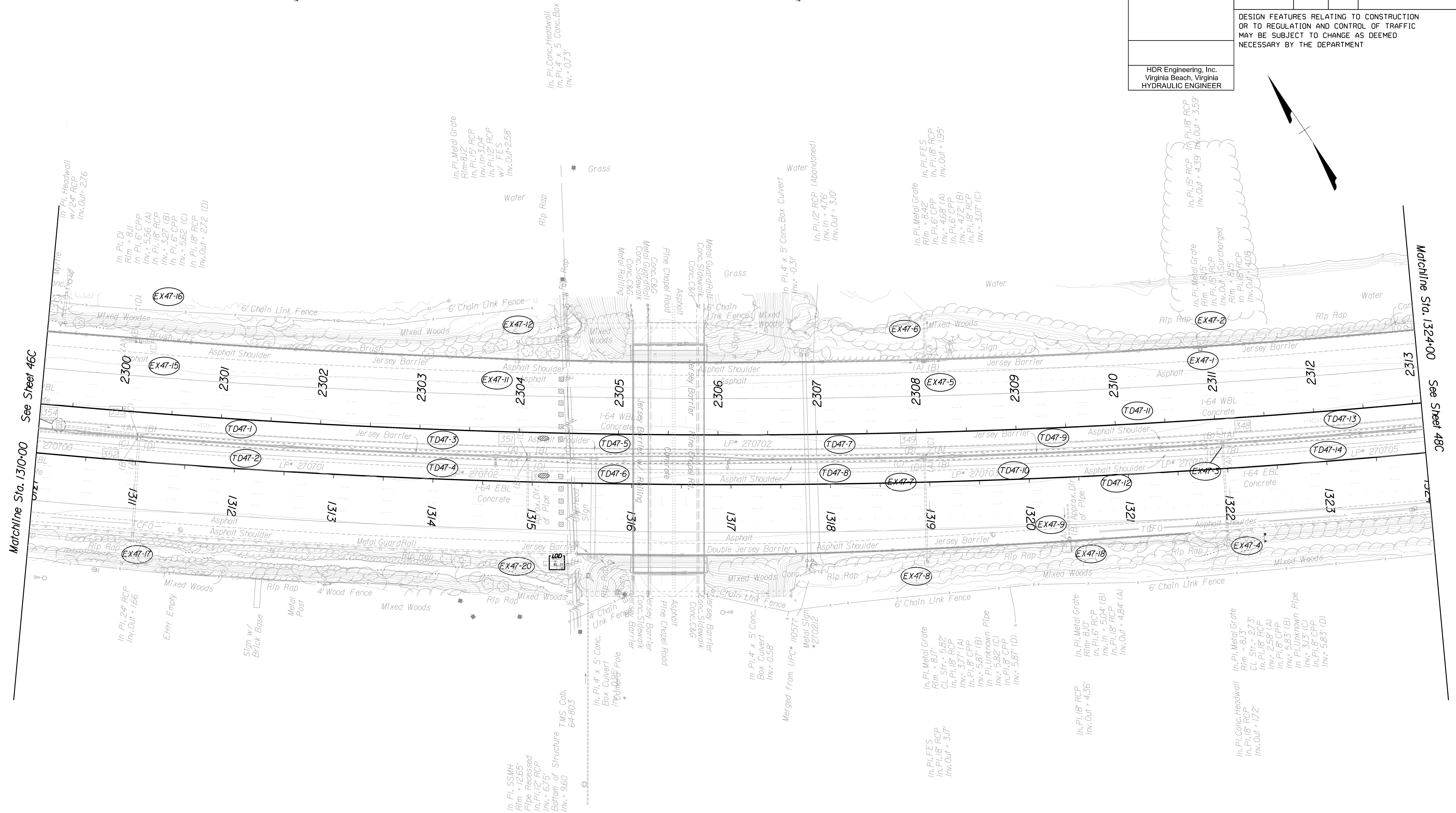
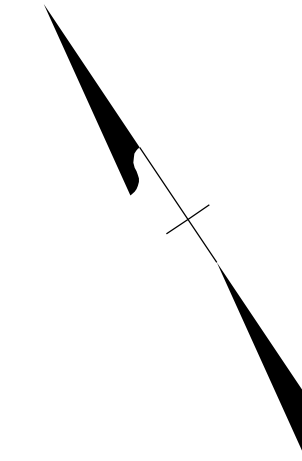
PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: MZA

EROSION AND SEDIMENT CONTROL PLAN

REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA.	64	0064-121-418, P101	47C

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER



P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

Inlet Protection Type B shall protect the entire length of trench drain

PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY: DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineer Inc.
SUBSURFACE UTILITY BY: DATE: N/A

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	48

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER

HDR Engineering, Inc.
Virginia Beach, Virginia
ROADWAY ENGINEER

CITY OF HAMPTON
DB 380 PG 266
29.32 AC. (Dedeed Acreage)
PARCEL ID* 1300171

WBI3
Curve 164WBI3
PI - 2311-34.45
DELTA - 34° 41' 42.24" (LT)
D - 0' 45' 10"
T - 2' 377.80'
L - 4609.39'
R - 7.61200'
PC - 2287-56.64
PCC - 2333-66.04
E - Match Existing
V - 65 mph

CITY OF HAMPTON
Doc# 090010756
20.49 AC. (Dedeed Acreage)
PARCEL ID* 13002049

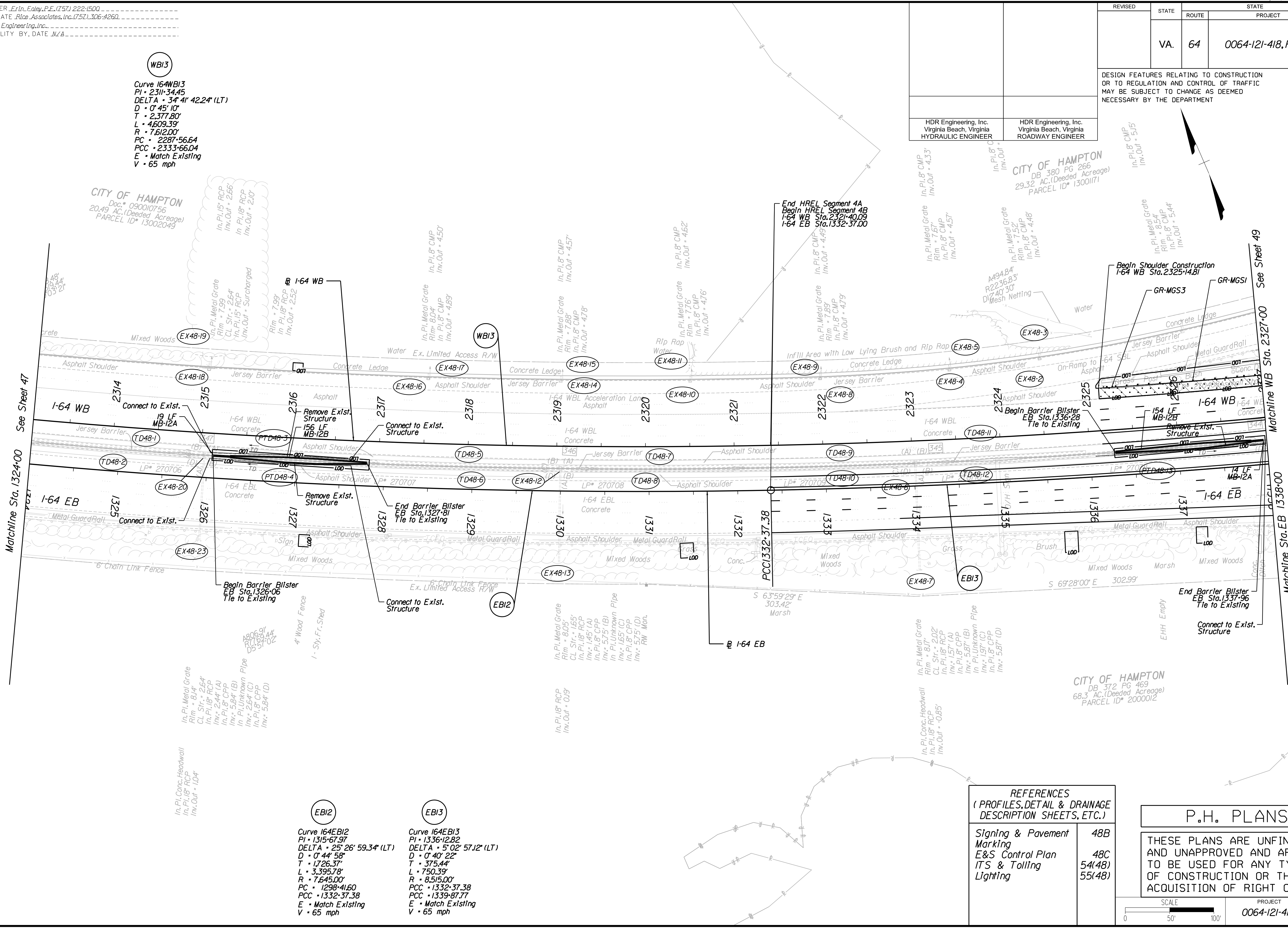
End HREL Segment 4A
Begin HREL Segment 4B
I-64 WB Sta. 2321+40.09
I-64 EB Sta. 1332-37.00

Begin Shoulder Construction
I-64 WB Sta. 2325+14.81

GR-MGS3
GR-MGS1

Matchline Sta. 1324+00 See Sheet 47

Matchline WB Sta. 2327+00 See Sheet 49
Matchline Sta. EB 1338+00



In. Pl. Metal Grate
Rim = 61.4"
CL Str. = 2.64'
In. Pl. 18" RCP
In. Pl. 24" (A)
In. Pl. 18" CPP
In. Pl. 36" (B)
In. Pl. Unknown Pipe
In. Pl. 24" (C)
In. Pl. 18" CPP
In. = 5.87' (D)

In. Pl. Conc. Headwall
In. Pl. 18" RCP
In. = 1.04'

EBI2
Curve 164EBI2
PI - 1315-67.97
DELTA - 25° 26' 59.34" (LT)
D - 0' 44' 58"
T - 1' 726.37'
L - 3,395.78'
R - 7.645.00'
PC - 1298-41.60
PCC - 1332-37.38
E - Match Existing
V - 65 mph

EBI3
Curve 164EBI3
PI - 1336-12.82
DELTA - 5° 02' 57.12" (LT)
D - 0' 40' 22"
T - 375.44'
L - 750.39'
R - 8.515.00'
PCC - 1332-37.38
PCC - 1339-87.77
E - Match Existing
V - 65 mph

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Signing & Pavement Marking	48B
E&S Control Plan	48C
ITS & Tolling	54(48)
Lighting	55(48)

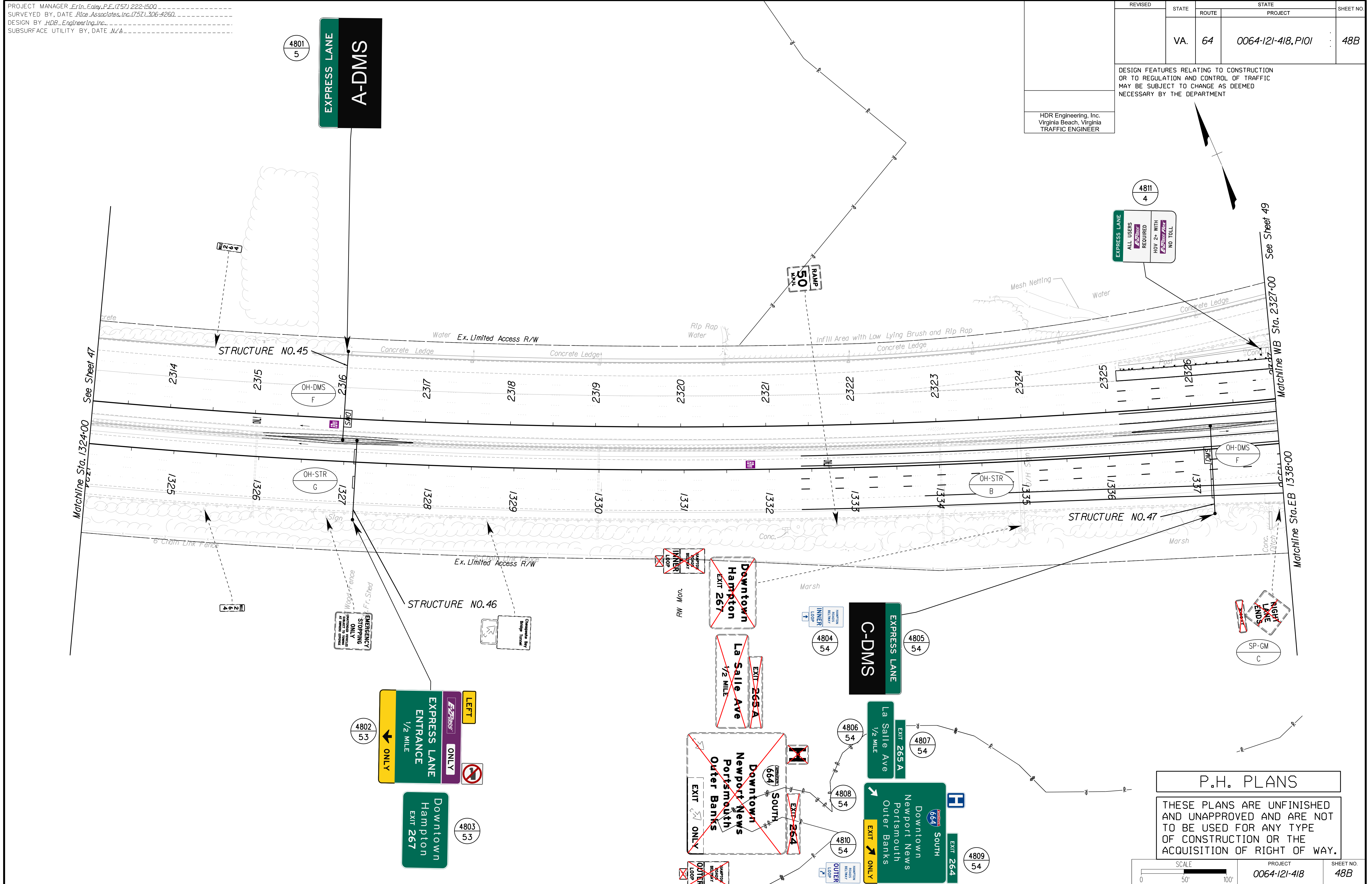
P.H. PLANS
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROJECT MANAGER: Erin Eoley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineer Inc., Inc.
SUBSURFACE UTILITY BY, DATE: N/A

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	48B

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER



P.H. PLANS
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

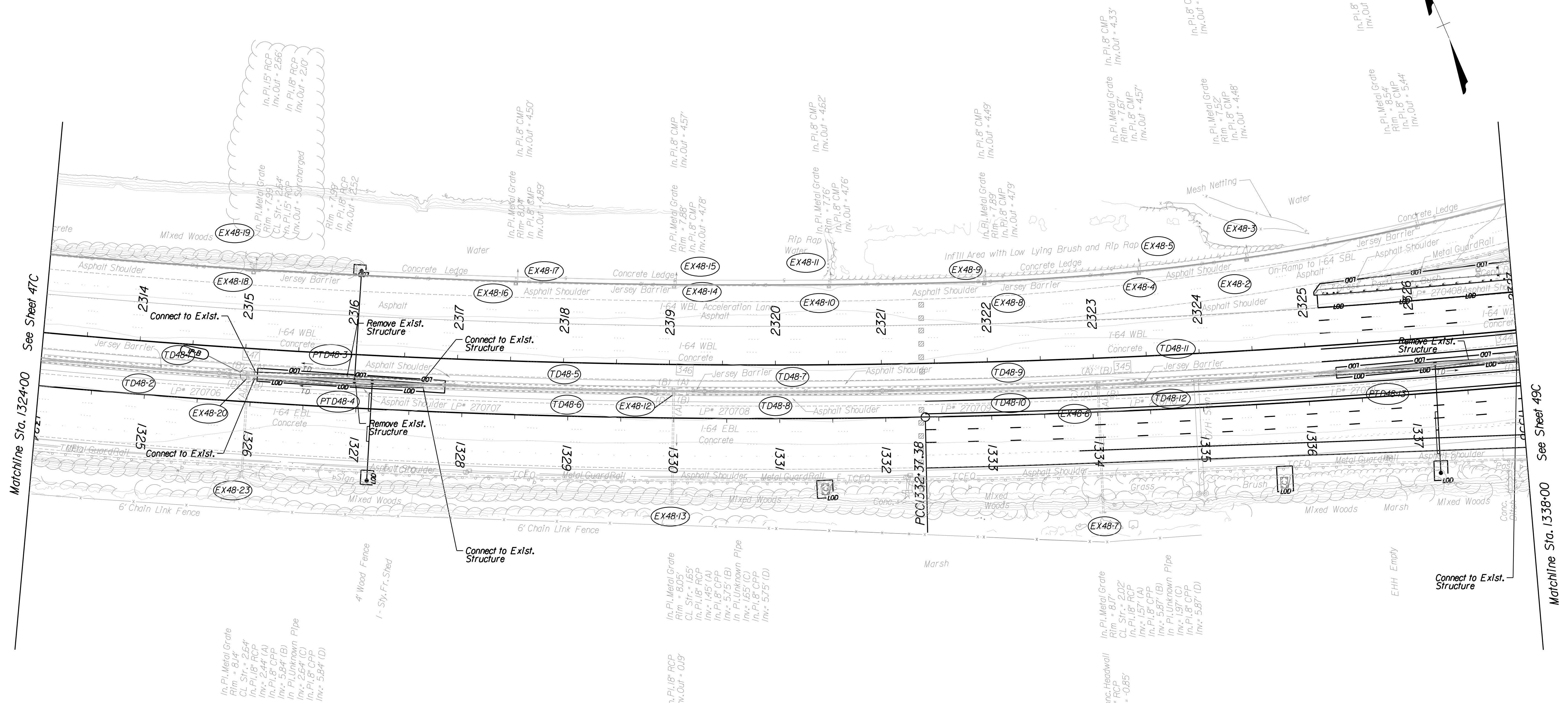
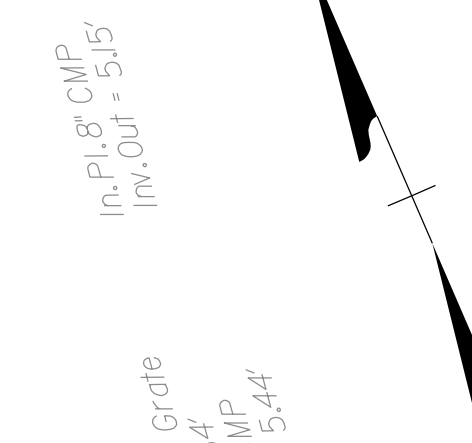
PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY: DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineer/Ingr, Inc.
SUBSURFACE UTILITY BY: DATE: N/A

EROSION AND SEDIMENT CONTROL PLAN

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	48C

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER



P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

1 Inlet Protection Type B shall protect the entire length of trench drain

PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY: DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineer Inc.
SUBSURFACE UTILITY BY: DATE: MZA

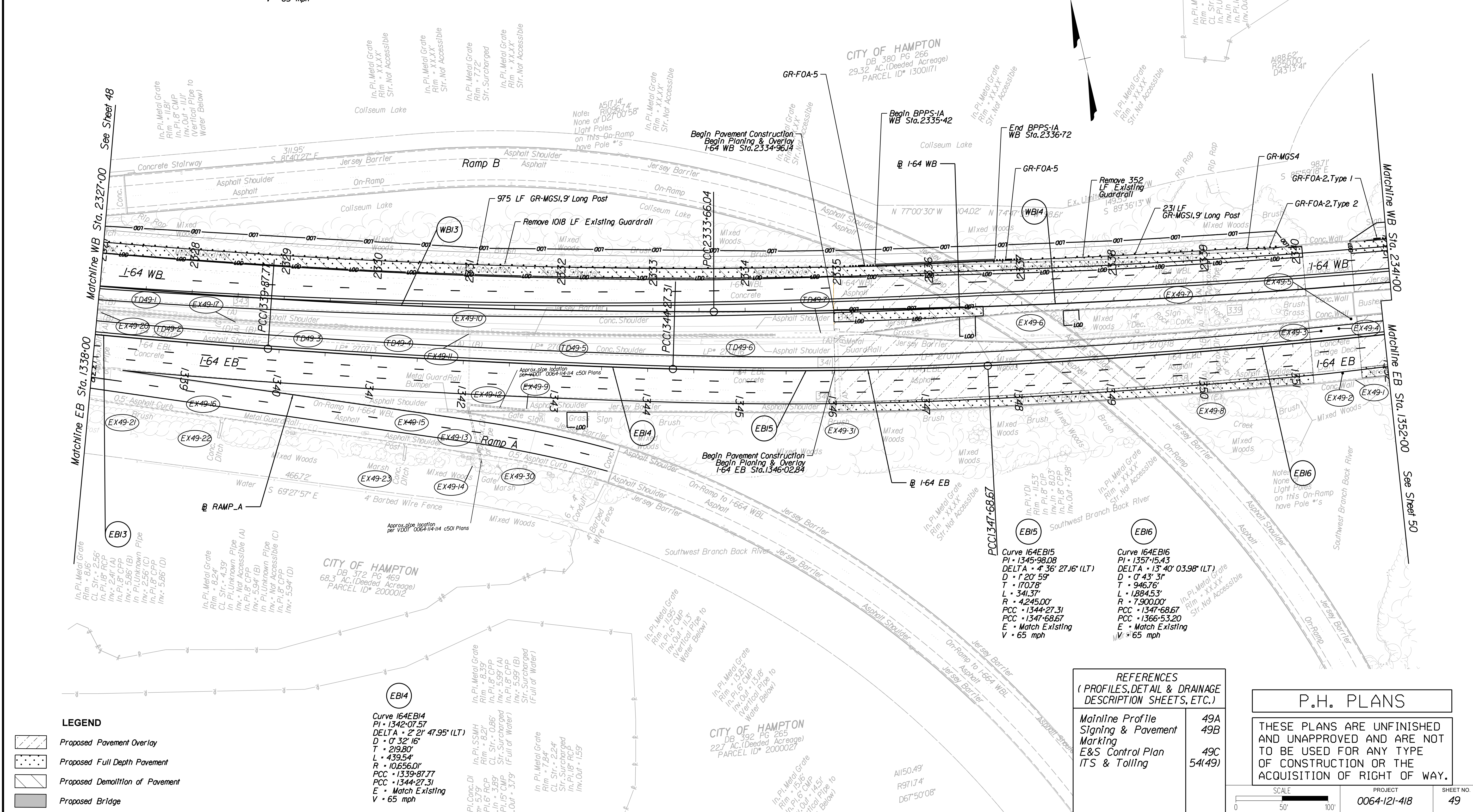
REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	64		0064-121-418, P101	49

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER

HDR Engineering, Inc.
Virginia Beach, Virginia
ROADWAY ENGINEER

WBI4
Curve 164WBI4
PI • 2337+50.98
DELTA • 4° 57' 41.46" (LT)
D • 0' 38" 41"
T • 384.94'
L • 769.39'
R • 8,885.00'
PCC • 2333+66.04
PCC • 2341+35.43
E • Match Existing
V • 65 mph



LEGEND

	Proposed Pavement Overlay
	Proposed Full Depth Pavement
	Proposed Demolition of Pavement
	Proposed Bridge

EBI4
Curve 164EBI4
PI • 1342+07.57
DELTA • 2° 21' 47.95" (LT)
D • 0' 32" 16"
T • 219.80'
L • 439.54'
R • 10,656.00'
PCC • 1339+87.77
PCC • 1344+27.31
E • Match Existing
V • 65 mph

EBI5
Curve 164EBI5
PI • 1345+98.08
DELTA • 4° 36' 27.16" (LT)
D • 0' 20" 59"
T • 170.78'
L • 341.37'
R • 4,245.00'
PCC • 1344+27.31
PCC • 1347+68.67
E • Match Existing
V • 65 mph

EBI6
Curve 164EBI6
PI • 1357+15.43
DELTA • 13° 40' 03.98" (LT)
D • 0' 43' 31"
T • 946.76'
L • 1,884.53'
R • 7,900.00'
PCC • 1347+68.67
PCC • 1366+53.20
E • Match Existing
V • 65 mph

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Mainline Profile	49A
Signing & Pavement Marking	49B
E&S Control Plan	49C
ITS & Tolling	54(49)

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

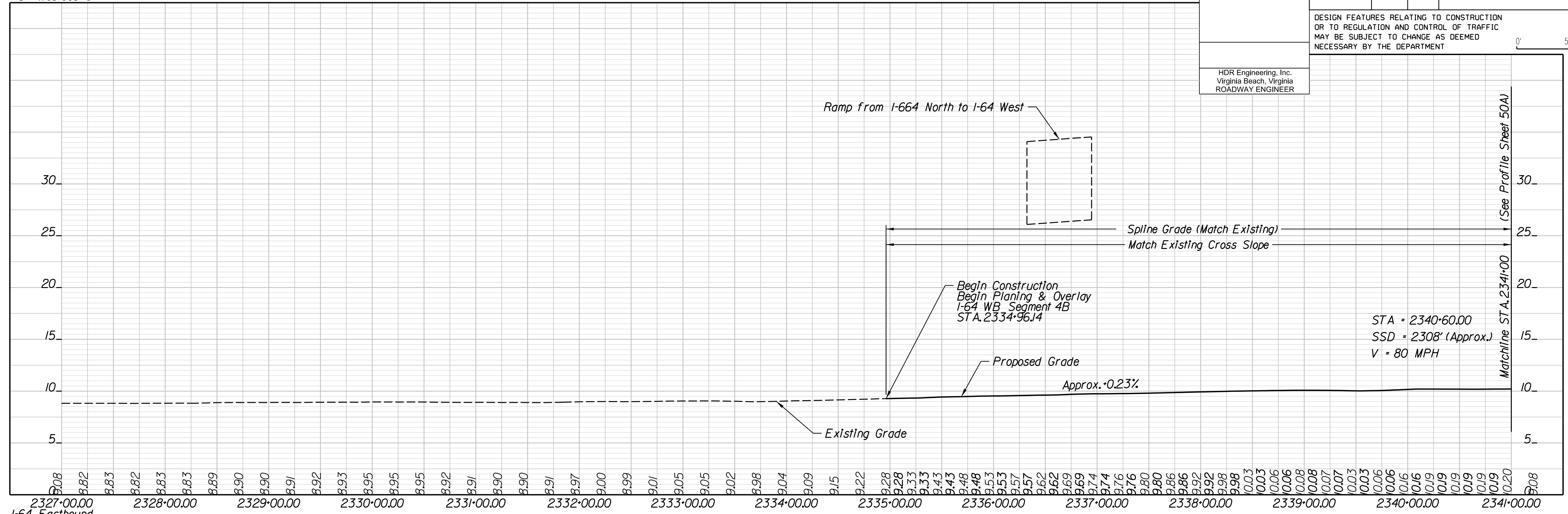
PROJECT MANAGER Erlin Foley, P.E. (757) 222-1500
 SURVEYED BY, DATE Rice, Associates, Inc. (757) 306-4260
 DESIGN BY HDR Engineering, Inc.
 SUBSURFACE UTILITY BY, DATE N/A

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	49A

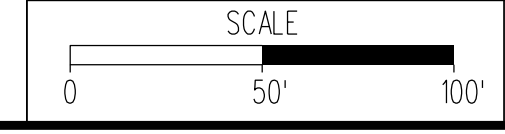
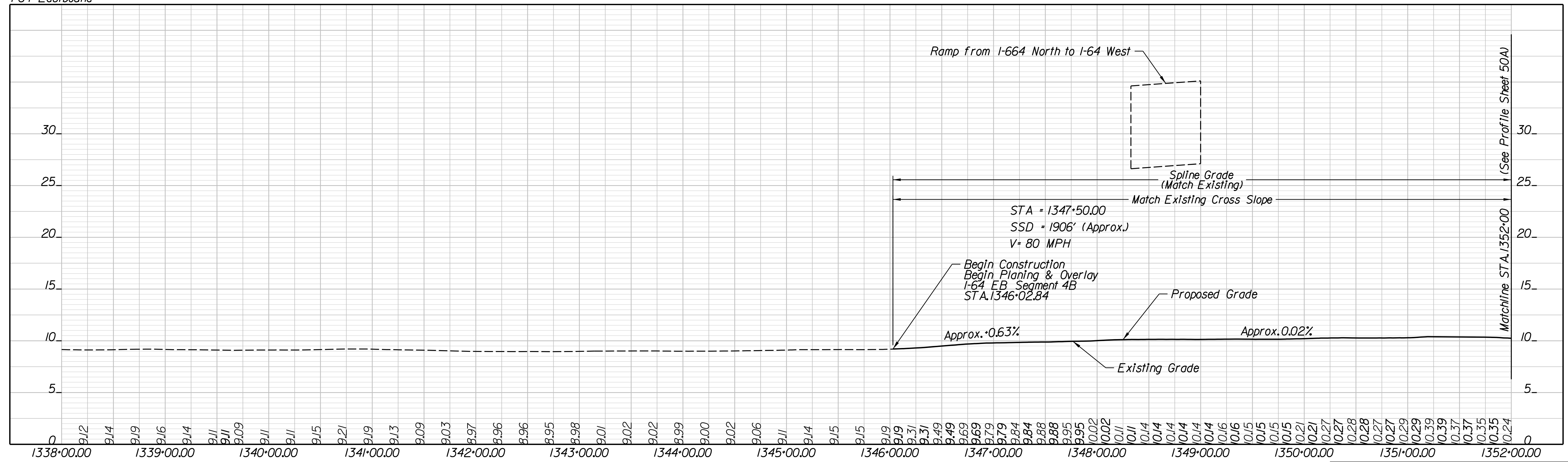
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
ROADWAY ENGINEER

I-64 Westbound



I-64 Eastbound



PROJECT
0064-121-418

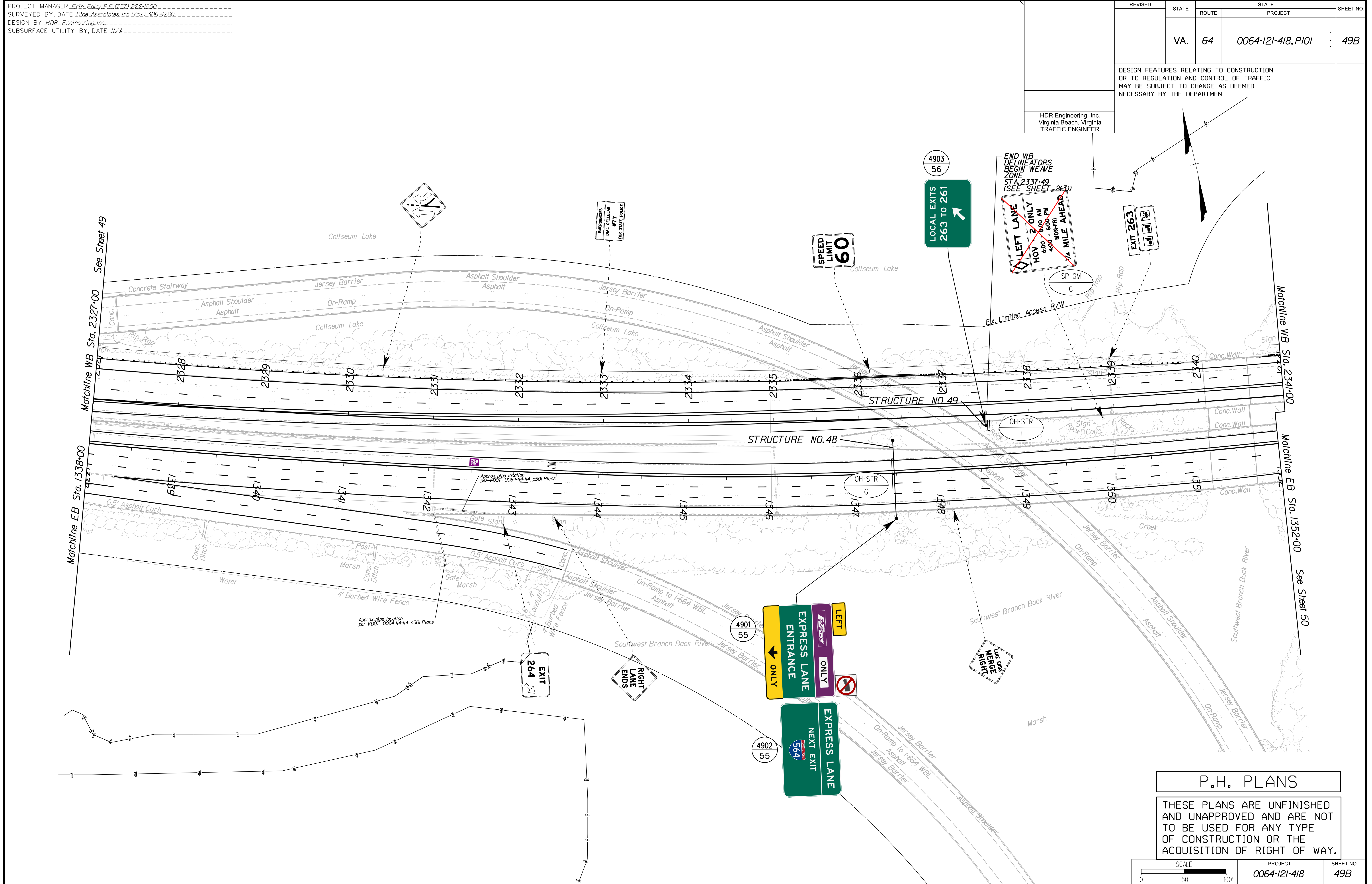
SHEET NO.
49A

PROJECT MANAGER: Erin Eoley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineer/Ing, Inc.
SUBSURFACE UTILITY BY, DATE: MZA

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	49B

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER



P.H. PLANS
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROJECT MANAGER: *Erin Eoley, P.E.* (757) 222-1500
SURVEYED BY, DATE: *Rico Associates, Inc.* (757) 306-4260
DESIGN BY: *HDR Engineering, Inc.*
SUBSURFACE UTILITY BY, DATE: *N/A*

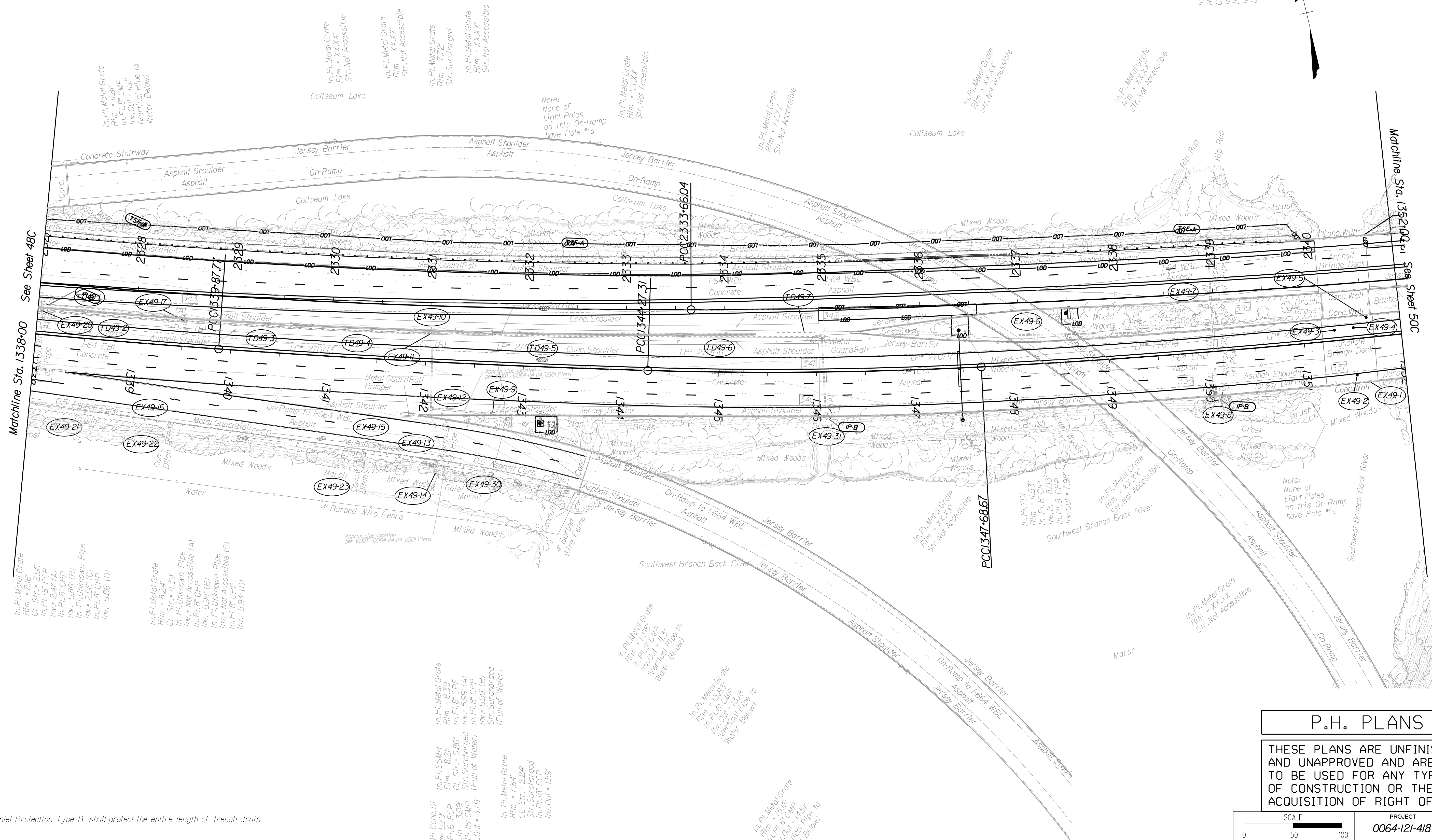
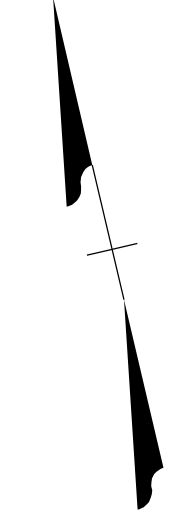
EROSION AND SEDIMENT CONTROL PLAN

REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA.	64	0064-121-418, P101	49C

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER

In, P.I. M
Rim = 5.63
CL Str. = 5.63
In, P.I. Unknown Pipe
Inv. In = Surcharge
In, P.I. 8" RCP
Inv. Out = 4.71 (B)



Inlet Protection Type B shall protect the entire length of trench drain

P.H. PLANS
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

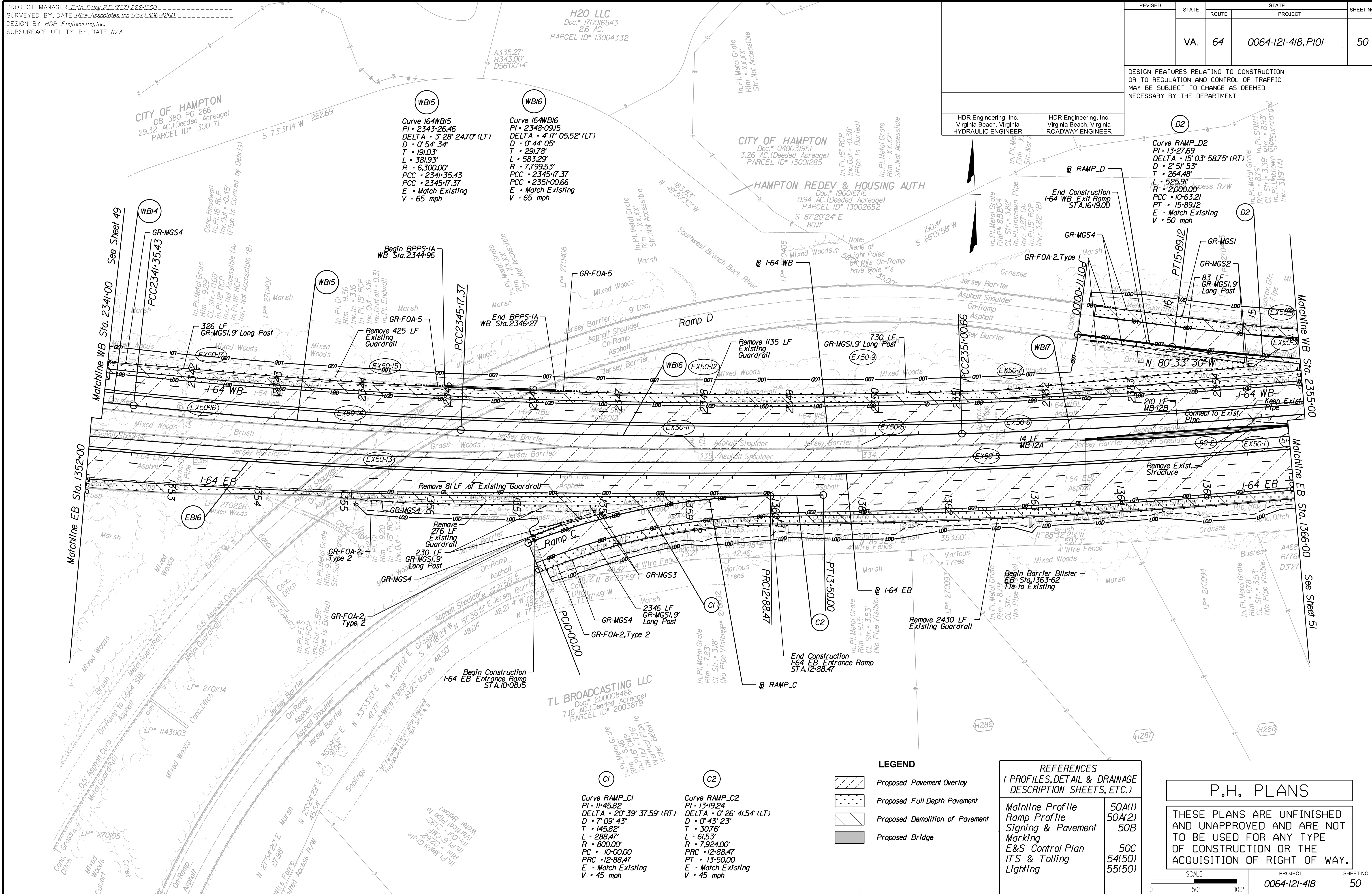
PROJECT MANAGER: Erin Foley, P.E. (757) 222-1500
SURVEYED BY: DATE: Pines Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineer/Inc.
SUBSURFACE UTILITY BY: DATE: N/A

REVISION	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	50

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER

HDR Engineering, Inc.
Virginia Beach, Virginia
ROADWAY ENGINEER



Curve 164WB15
PI = 2343+26.46
DELTA = 3° 28' 24.70" (LT)
D = 0' 54' 34"
T = 191.03'
L = 381.93'
R = 6300.00'
PCC = 2341+35.43
PCC = 2345+17.37
E = Match Existing
V = 65 mph

Curve 164WB16
PI = 2348+09.15
DELTA = 4° 17' 05.52" (LT)
D = 0' 44' 05"
T = 291.78'
L = 583.29'
R = 7799.53'
PCC = 2345+17.37
PCC = 2351+00.66
E = Match Existing
V = 65 mph

Curve RAMP_D2
PI = 13+27.69
DELTA = 15° 03' 58.75" (RT)
D = 2' 51' 53"
T = 264.48'
L = 525.91'
R = 2000.00'
PCC = 10+63.21
PT = 15+89.12
E = Match Existing
V = 50 mph

TL BROADCASTING LLC
Doc. # 200008463
7.16 AC. (Dedeed Acreage)
PARCEL ID # 2003879

Curve RAMP_C1
PI = 11+45.82
DELTA = 20° 39' 37.59" (RT)
D = 7° 09' 43"
T = 145.82'
L = 288.47'
R = 800.00'
PC = 10+00.00
PRC = 12+88.47
E = Match Existing
V = 45 mph

Curve RAMP_C2
PI = 13+19.24
DELTA = 0° 26' 41.54" (LT)
D = 0' 43' 23"
T = 30.76'
L = 61.53'
R = 7924.00'
PRC = 12+88.47
PT = 13+50.00
E = Match Existing
V = 45 mph

LEGEND

- Proposed Pavement Overlay
- Proposed Full Depth Pavement
- Proposed Demolition of Pavement
- Proposed Bridge

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

- Mainline Profile
- Ramp Profile
- Signing & Pavement Marking
- E&S Control Plan
- ITS & Tolling
- Lighting

- 50A(1)
- 50A(2)
- 50B
- 50C
- 54(50)
- 55(50)

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

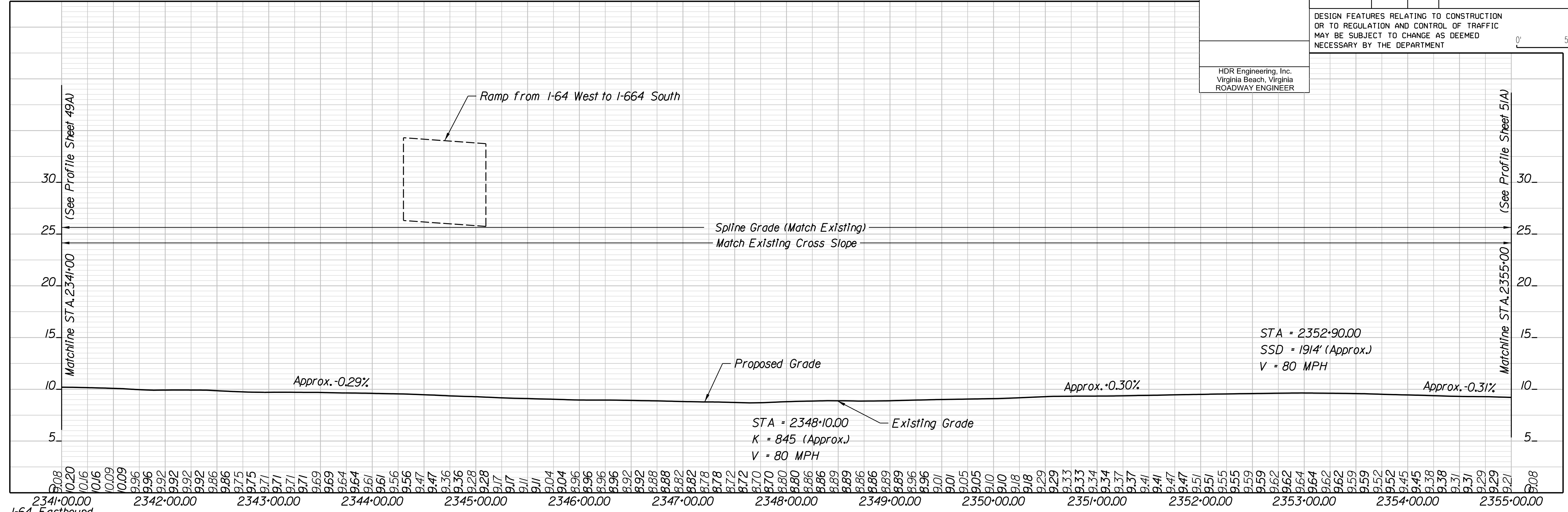
PROJECT MANAGER Erlin Foley, P.E. (757) 222-1500
 SURVEYED BY, DATE Rice Associates, Inc. (757) 306-4260
 DESIGN BY HDR Engineering, Inc.
 SUBSURFACE UTILITY BY, DATE N/A

REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA.	64	0064-121-418, P101	50A(1)

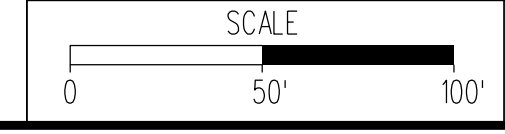
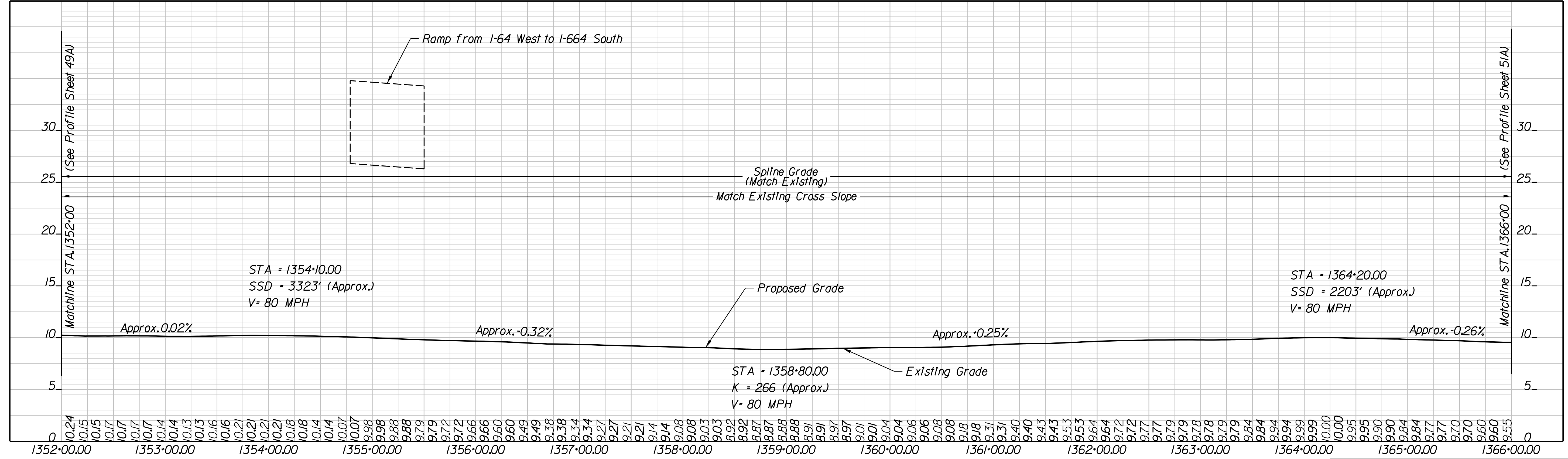
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
ROADWAY ENGINEER

I-64 Westbound



I-64 Eastbound



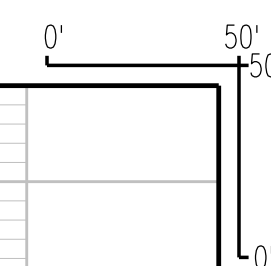
PROJECT: 0064-121-418
SHEET NO.: 50A(1)

PROJECT MANAGER Erlin Foley, P.E. (757) 222-1500
 SURVEYED BY, DATE Rice, Associates, Inc. (757) 306-4260
 DESIGN BY HDR Engineering, Inc.
 SUBSURFACE UTILITY BY, DATE N/A

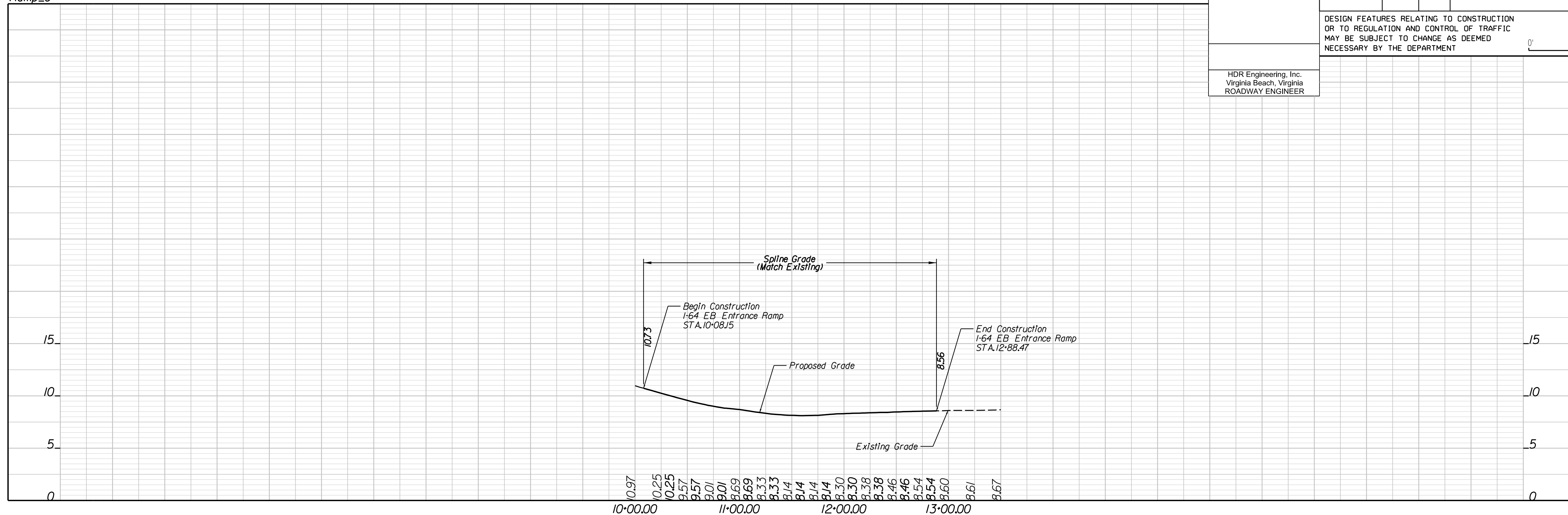
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	50A(2)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

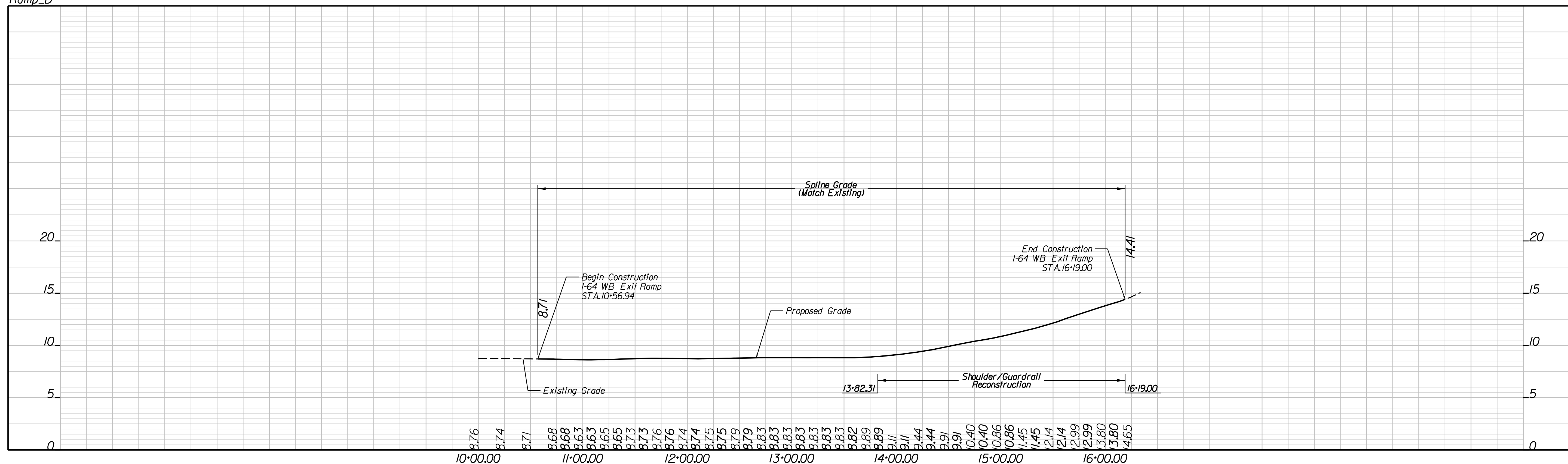
HDR Engineering, Inc.
Virginia Beach, Virginia
ROADWAY ENGINEER



Ramp_C



Ramp_D



PROJECT
0064-121-418

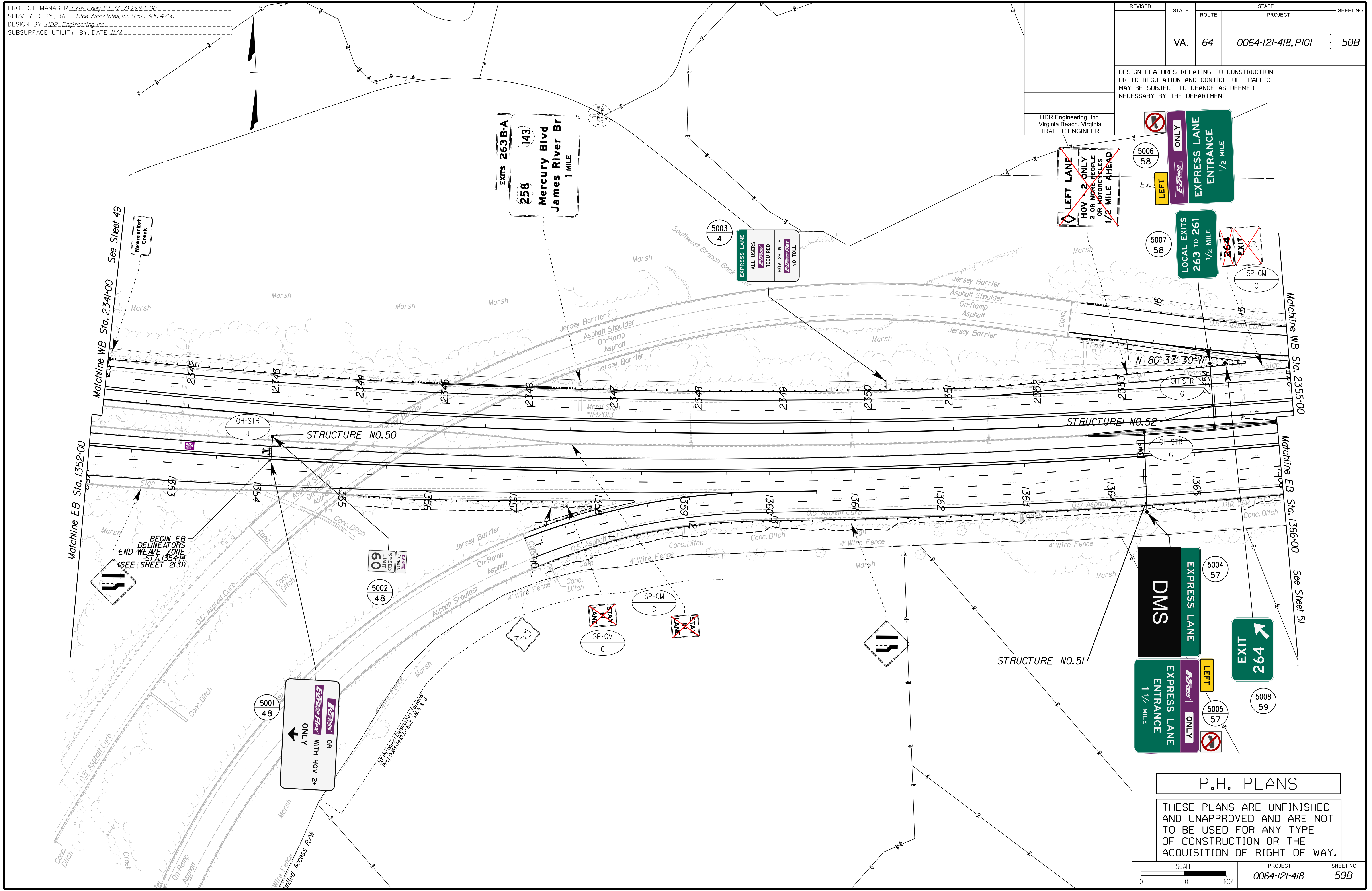
SHEET NO.
50A(2)

PROJECT MANAGER: Erin Eoley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineer/Ing, Inc.
SUBSURFACE UTILITY BY, DATE: N/A

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	64		0064-121-418, P101	50B

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER



P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
 SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
 DESIGN BY: HDR, Engineer/Inc.
 SUBSURFACE UTILITY BY, DATE: N/A

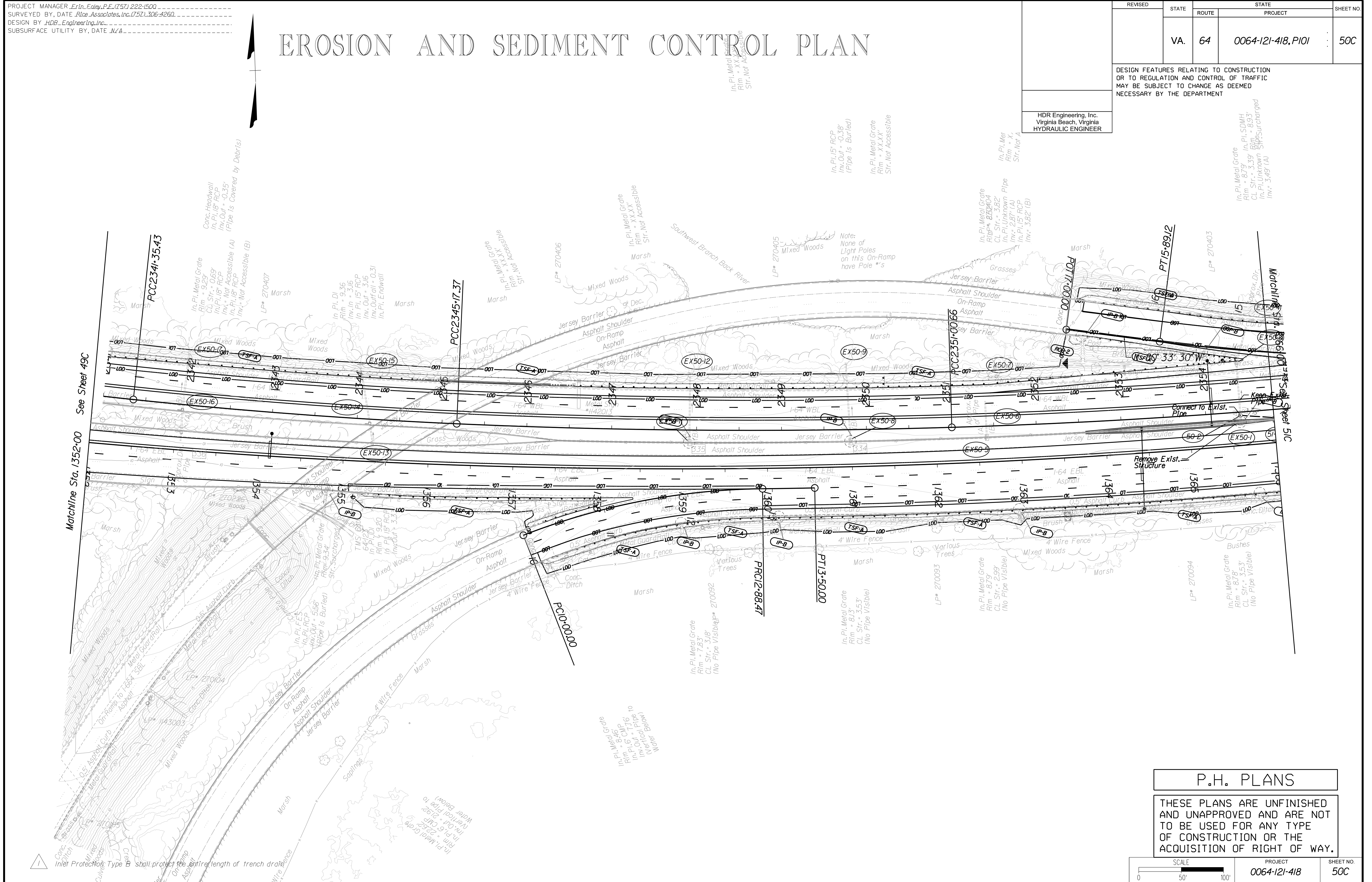
EROSION AND SEDIMENT CONTROL PLAN

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	50C

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER

In. Pl. Metal Grate
Rim = 81.93
CL Str. = 3.39
In. Pl. Unknown
Str. Surcharged
Inv. = 3.49 (A)



P.H. PLANS
 THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineer/Inc.
SUBSURFACE UTILITY BY, DATE: MZA

DI
Curve RAMP_DI
PI • 10+31.61
DELTA • 0° 29' 18.33" (RT)
D • 0' 46' 22"
T • 31.61'
L • 63.21'
R • 7,415.00'
PC • 10+00.00
PCC • 10+63.21
E • Match Existing
V • 50 mph

CITY OF HAMPTON
Doc. # 070016289
10.00 AC. (Deeded Acreage)
PARCEL ID # 7000130

WB17
Curve 164WB17
PI • 2359+09.97
DELTA • 12° 23' 35.46" (LT)
D • 0' 46' 07"
T • 809.31'
L • 1,612.31'
R • 7,454.00'
PC • 2351+00.66
PCC • 2367+12.97
E • Match Existing
V • 60 mph

CITY OF HAMPTON
DB 1354 PG 85
24.86 AC. (Deeded Acreage)
PARCEL ID # 13000279

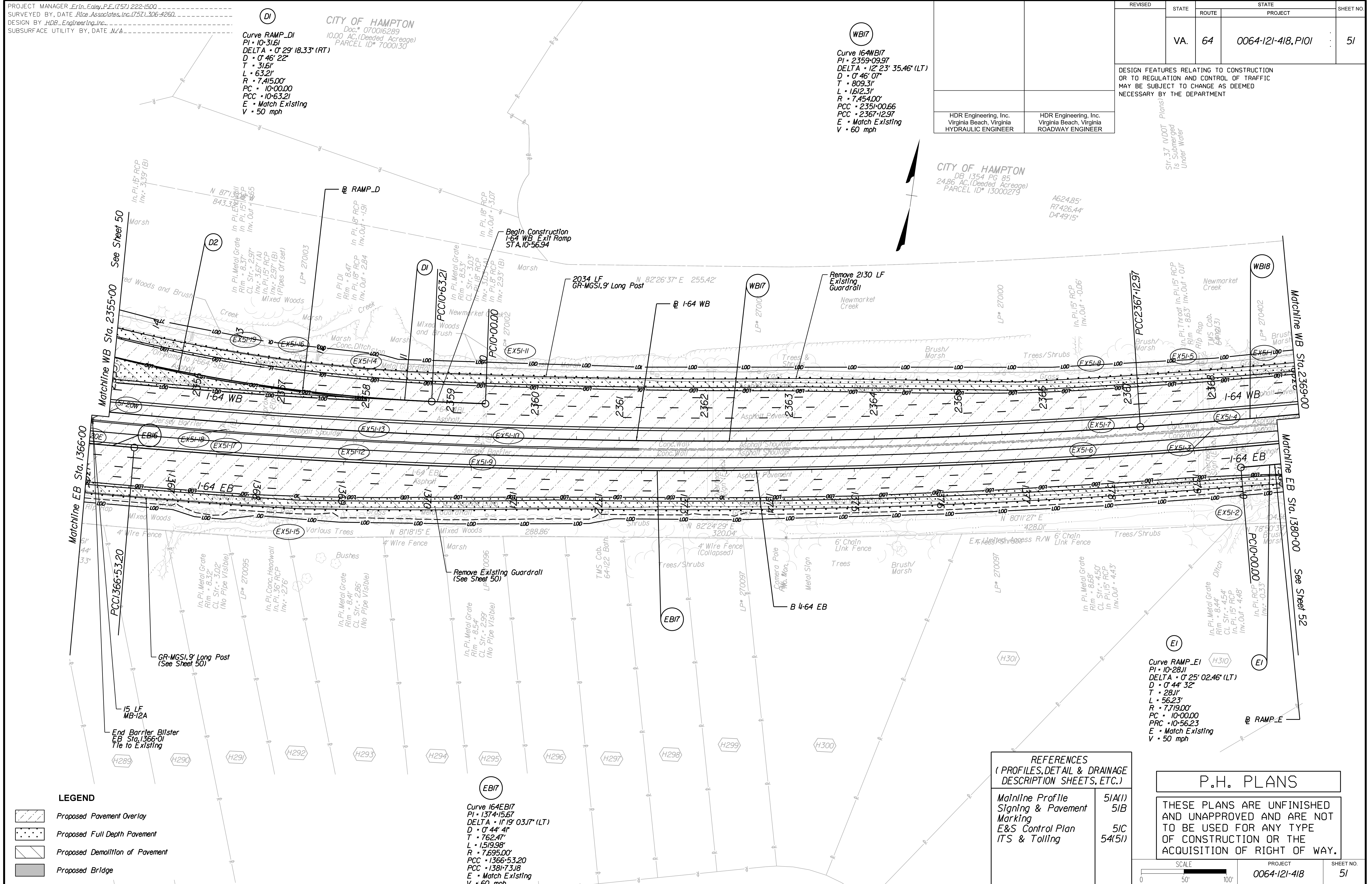
REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	64		0064-121-418, P101	51

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER

HDR Engineering, Inc.
Virginia Beach, Virginia
ROADWAY ENGINEER

STR. 37 (VDOT Plans)
Is Submerged
Under Water



LEGEND

	Proposed Pavement Overlay
	Proposed Full Depth Pavement
	Proposed Demolition of Pavement
	Proposed Bridge

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Mainline Profile	51A(1)
Signing & Pavement Marking	51B
E&S Control Plan	51C
ITS & Tolling	54(51)

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

SCALE	PROJECT	SHEET NO.
0 50 100'	0064-121-418	51

EB17
Curve 164EB17
PI • 1374+15.67
DELTA • 11° 19' 03.17" (LT)
D • 0' 44' 41"
T • 762.47'
L • 1,519.98'
R • 7,695.00'
PC • 1366+53.20
PCC • 1381+73.18
E • Match Existing
V • 60 mph

EI
Curve RAMP_EI
PI • 10+28.11
DELTA • 0° 25' 02.46" (LT)
D • 0' 44' 32"
T • 28.11'
L • 56.23'
R • 7,719.00'
PC • 10+00.00
PCC • 10+56.23
E • Match Existing
V • 50 mph

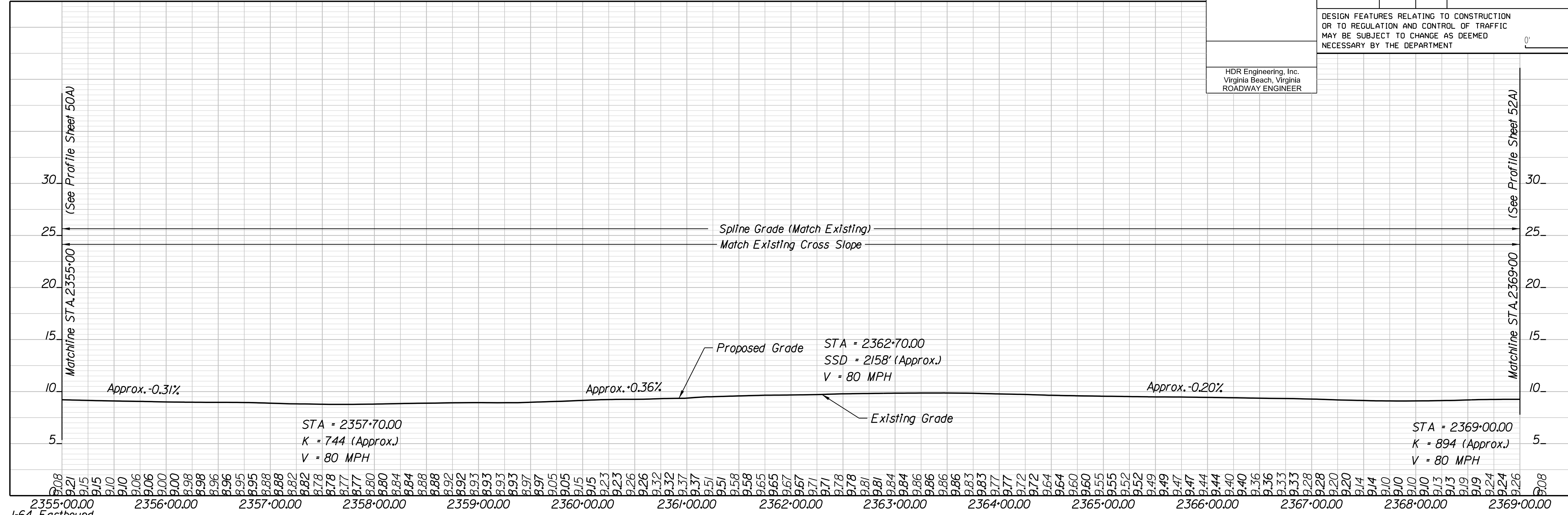
PROJECT MANAGER Erlin Foley, P.E. (757) 222-1500
 SURVEYED BY, DATE Rice, Associates, Inc. (757) 306-4260
 DESIGN BY HDR Engineering, Inc.
 SUBSURFACE UTILITY BY, DATE N/A

REVISED	STATE	STATE		SHEET NO.
	VA.	ROUTE	PROJECT	
	64	0064-121-418, P101		51A

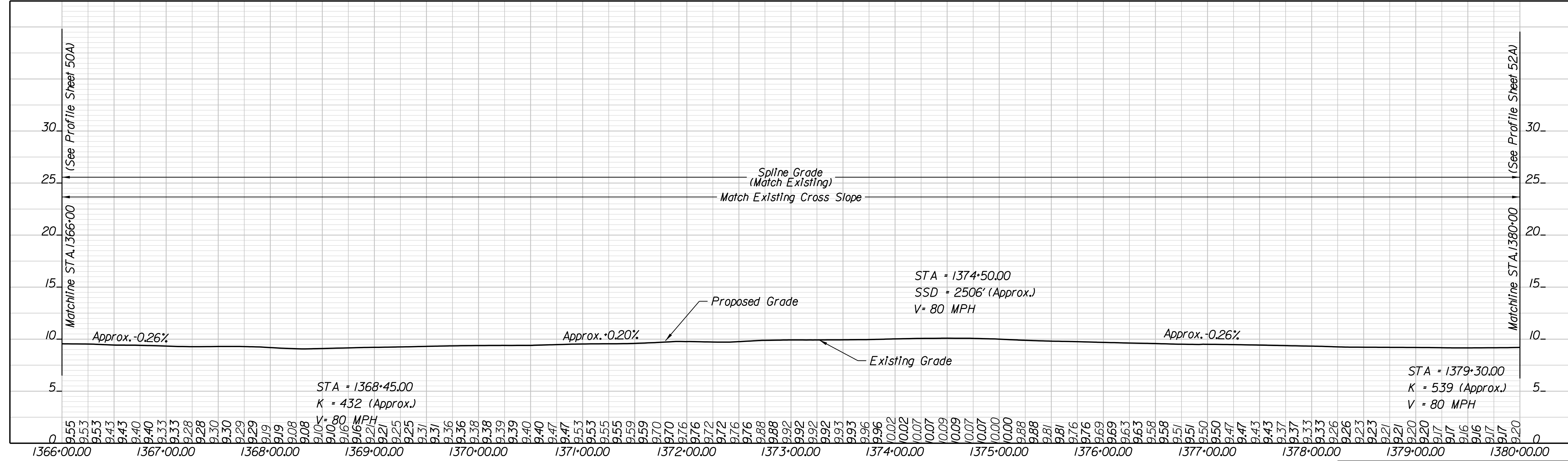
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
ROADWAY ENGINEER

I-64 Westbound



I-64 Eastbound

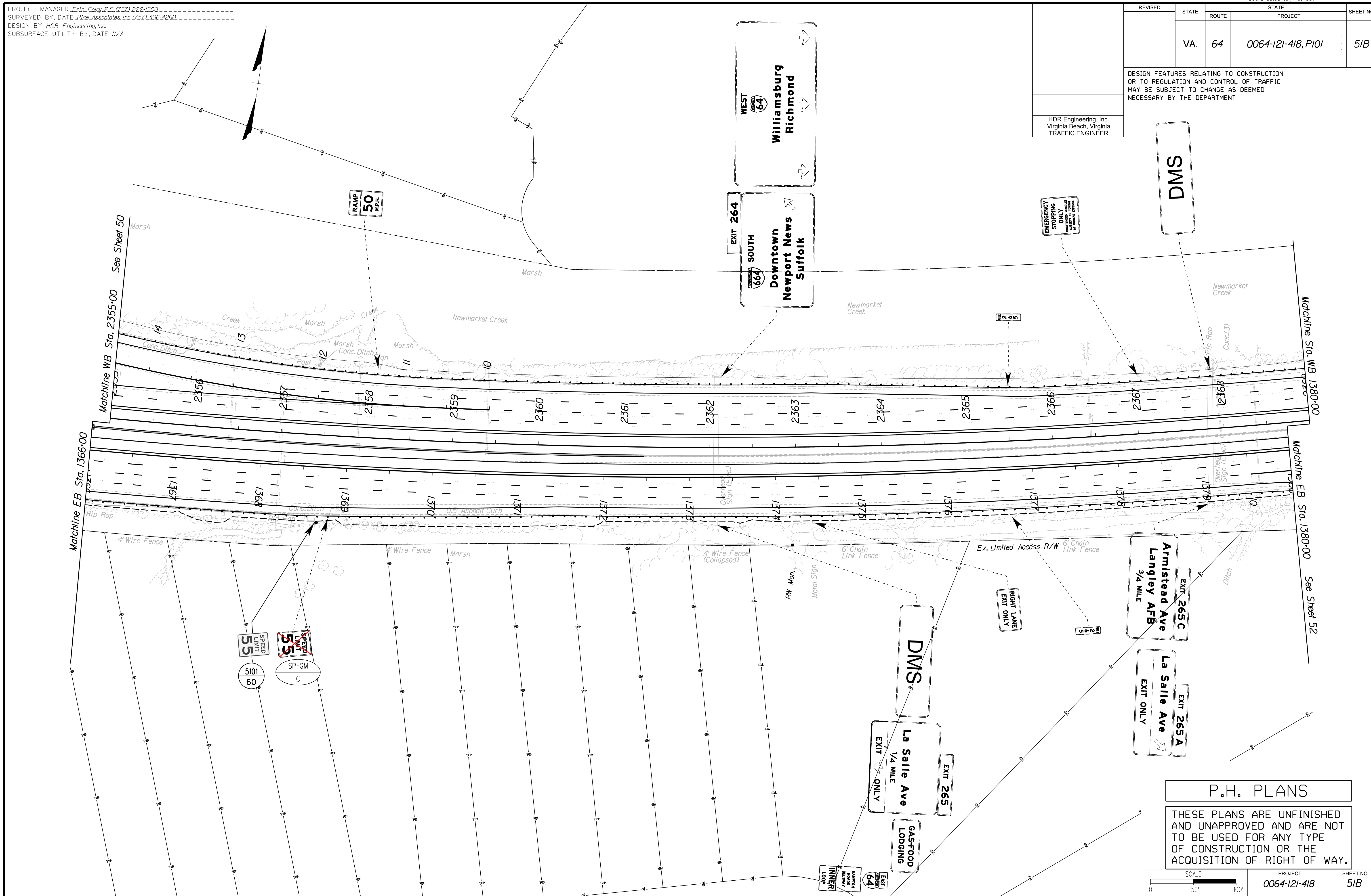


PROJECT MANAGER: Erin Eoley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineer/Ing, Inc.
SUBSURFACE UTILITY BY, DATE: MZA

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	51B

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER



DMS

DMS

EXIT 265 C
Armistead Ave
Langley AFB
3/4 MILE

EXIT 265 A
La Salle Ave
EXIT ONLY

EXIT 265
La Salle Ave
1/4 MILE
EXIT ONLY

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROJECT MANAGER: ErIn_Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice_Associates, Inc. (757) 306-4260
DESIGN BY: HDR_Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: MZA

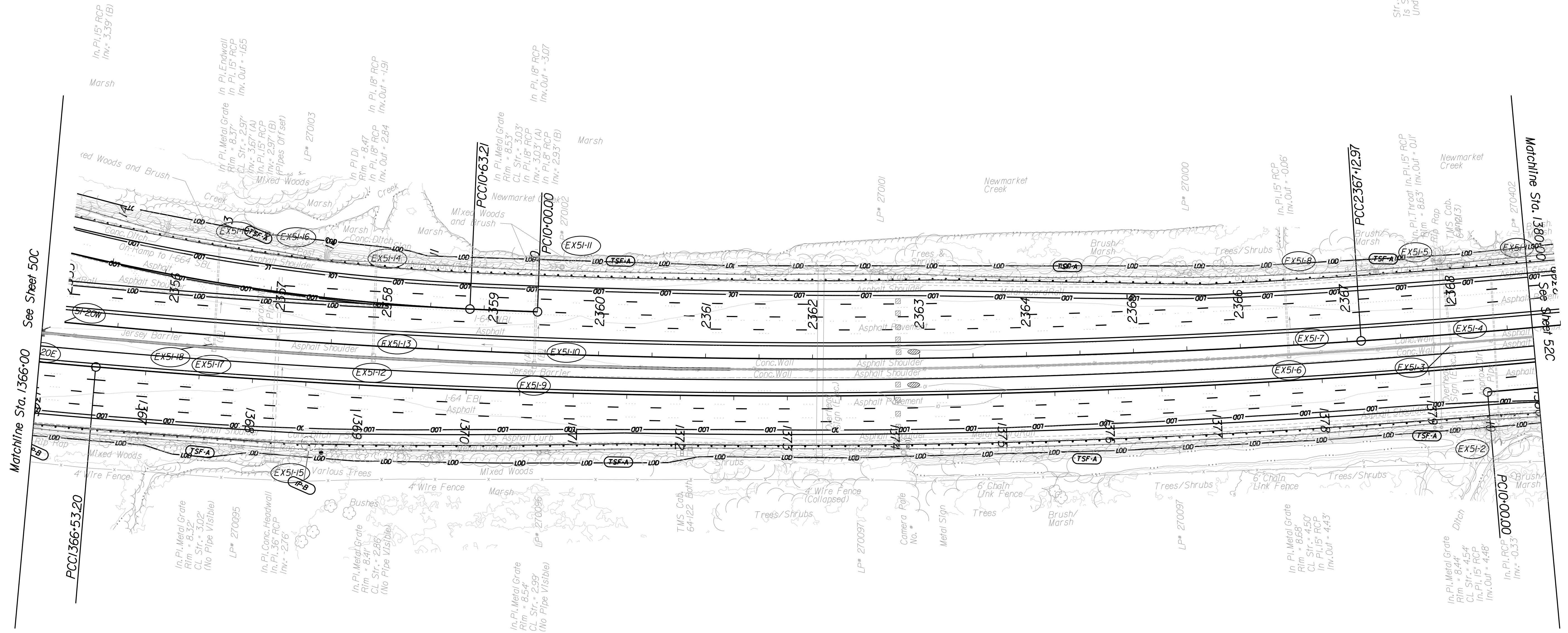
EROSION AND SEDIMENT CONTROL PLAN

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	51C

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER

STR. 37 (VDOT Plans)
Is Submerged Under Water



P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

1 Inlet Protection Type B shall protect the entire length of trench drain

PROJECT MANAGER: Erin Foley, P.E. (757) 222-1500
SURVEYED BY: DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineering, Inc.
SUBSURFACE UTILITY BY: DATE: N/A

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	52

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER

HDR Engineering, Inc.
Virginia Beach, Virginia
ROADWAY ENGINEER

F1
Curve RAMP_F1
PI = 11-38.22
DELTA = 20° 36' 55.75" (RT)
D = 7° 32' 20"
T = 138.22'
L = 273.45'
R = 760.00'
PC = 10+00.00
PCC = 12+73.45
E = Match Existing
V = 50 mph

F2
Curve RAMP_F2
PI = 13-11.73
DELTA = 0° 34' 59.41" (RT)
D = 0° 45' 43"
T = 38.28'
L = 76.55'
R = 752.00'
PC = 12+73.45
PT = 13+50.00
E = Match Existing
V = 50 mph

WB18
Curve I64WB18
PI = 237.37095
DELTA = 9° 56' 54.71" (LT)
D = 0° 45' 28"
T = 65.98'
L = 131.266'
R = 7560.00'
PC = 2367+12.97
PCC = 2380+25.63
E = Match Existing
V = 60 mph

HI
Curve RAMP_HI
PI = 10+50.45
DELTA = 0° 41' 17.40" (RT)
D = 0° 40' 55"
T = 50.45'
L = 100.90'
R = 840.100'
PC = 10+00.00
PCC = 11+00.90
E = Match Existing
V = 30 mph

H2
Curve RAMP_H2
PI = 11-87.50
DELTA = 24° 25' 55.18" (RT)
D = 14° 19' 26"
T = 86.60'
L = 170.57'
R = 400.00'
PC = 11+00.90
PCC = 12+71.47
E = Match Existing
V = 30 mph

H3
Curve RAMP_H3
PI = 13-11.09
DELTA = 18° 36' 35.77" (RT)
D = 23° 41' 49"
T = 39.62'
L = 78.53'
R = 241.79'
PC = 12+71.47
PT = 13+50.00
E = Match Existing
V = 30 mph

CITY OF HAMPTON
DB 1354 PG 85
24.86 AC. (Deeded Acreage)
PARCEL ID# 13000275

ROANOKE-VINTON RADIO INC
DB 1275 PG 881
1.84 AC. (Deeded Acreage)
PARCEL ID# 2000240

EB18
Curve I64EB18
PI = 1389-87.65
DELTA = 11° 53' 58.47" (LT)
D = 0° 43' 59"
T = 814.47'
L = 1623.07'
R = 7815.00'
PC = 1381+73.18
PT = 1397+96.26
E = 2.2%
V = 60 mph

E2
Curve RAMP_E2
PI = 11-79.51
DELTA = 15° 36' 01.54" (RT)
D = 6° 21' 58"
T = 123.29'
L = 245.05'
R = 900.00'
PC = 10+56.23
PT = 13+01.28
E = Match Existing
V = 50 mph

G1
Curve RAMP_G1
PI = 10+74.98
DELTA = 19° 05' 11.00" (RT)
D = 12° 50' 48"
T = 74.98'
L = 148.57'
R = 446.00'
PC = 10+00.00
PRC = 11+48.57
E = 8%
V = 40 mph

G2
Curve RAMP_G2
PI = 11-74.29
DELTA = 0° 22' 33.22" (LT)
D = 0° 43' 51"
T = 25.71'
L = 51.43'
R = 7839.00'
PRC = 11+48.57
PT = 12+00.00
E = 8%
V = 40 mph

LEGEND

	Proposed Pavement Overlay
	Proposed Full Depth Pavement
	Proposed Demolition of Pavement
	Proposed Bridge

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Mainline Profile	52A(1)
Ramp Profile	52A(2)
Signing & Pavement Marking	52B
E&S Control Plan	52C
ITS & Tolling	54(52)
Lighting	55(52)

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

SCALE	PROJECT	SHEET NO.
0 50 100'	0064-121-418	52

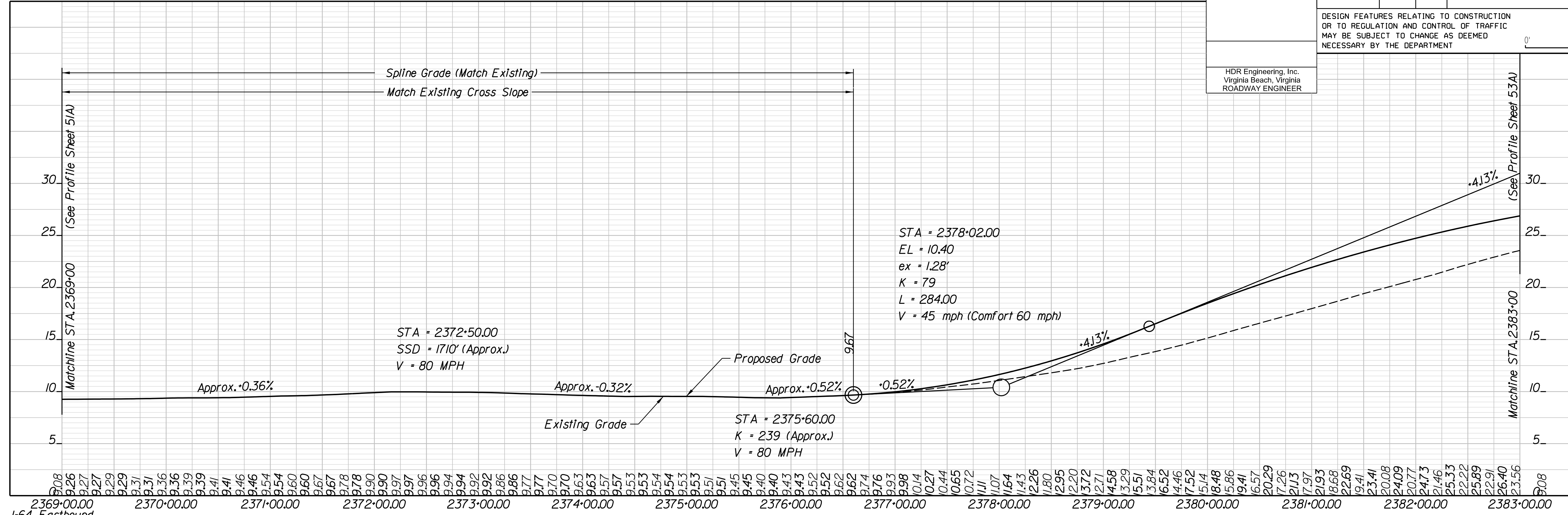
PROJECT MANAGER Erlin Foley, P.E. (757) 222-1500
 SURVEYED BY, DATE Rice, Associates, Inc. (757) 306-4260
 DESIGN BY HDR Engineering, Inc.
 SUBSURFACE UTILITY BY, DATE N/A

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	64		0064-121-418, P101	52A(1)

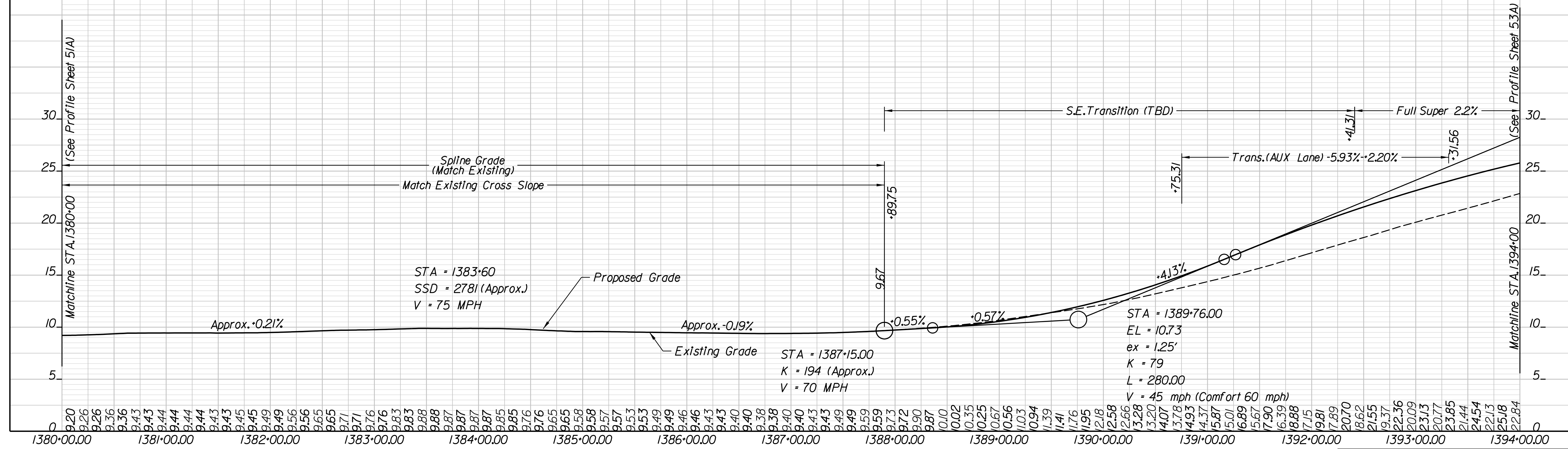
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
ROADWAY ENGINEER

I-64 Westbound



I-64 Eastbound



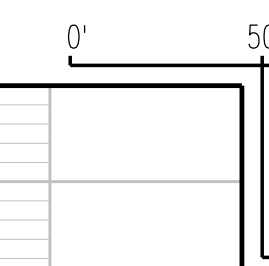
PROJECT MANAGER Erlin Foley, P.E. (757) 222-1500
 SURVEYED BY, DATE Rice Associates, Inc. (757) 306-4260
 DESIGN BY HDR Engineering, Inc.
 SUBSURFACE UTILITY BY, DATE N/A

d117839052a(2).dgn
Plotted By: JREDD

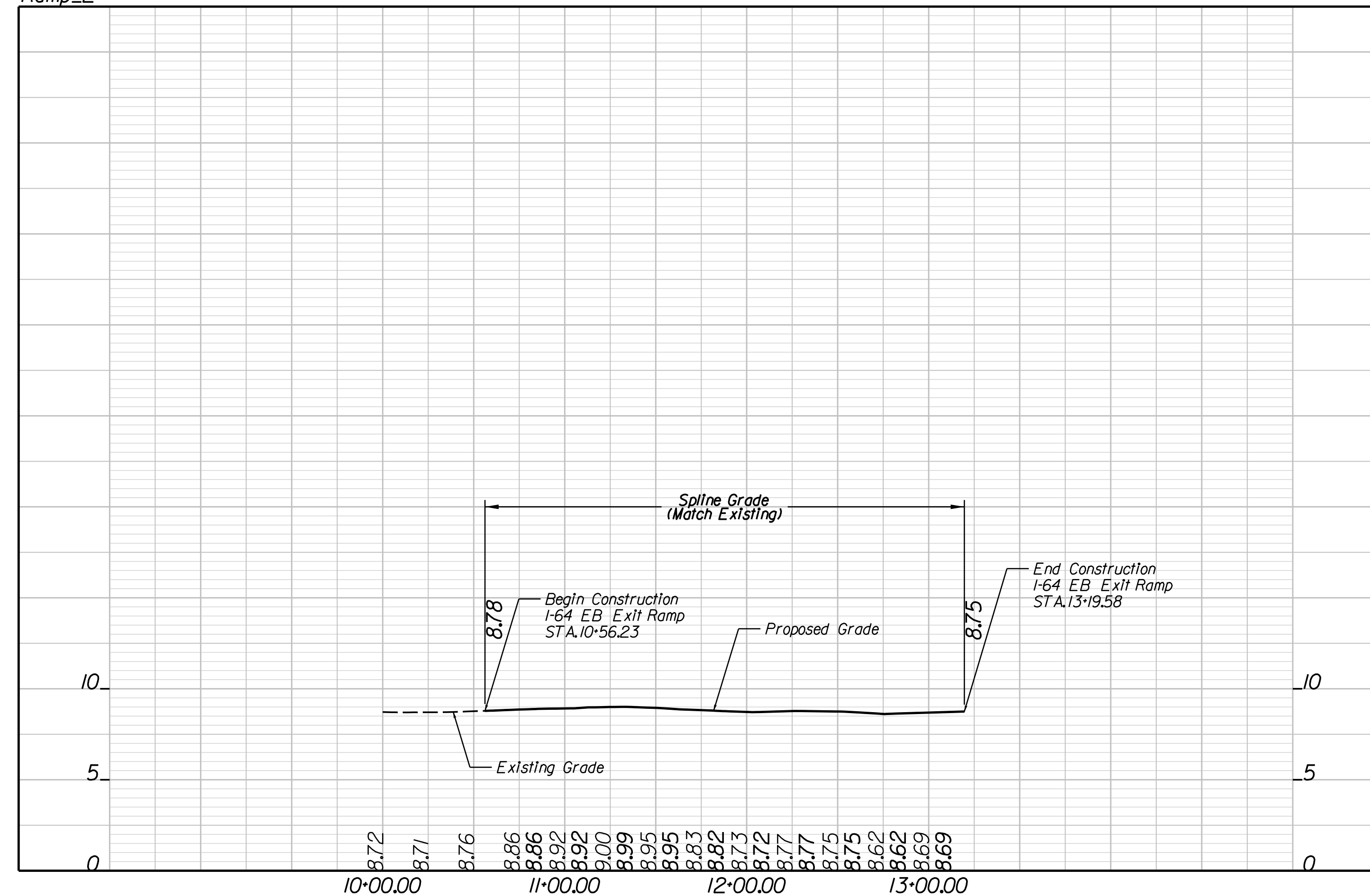
REVISED	STATE	STATE		SHEET NO.
	VA.	ROUTE	PROJECT	
		64	0064-121-418, P101	52A(2)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

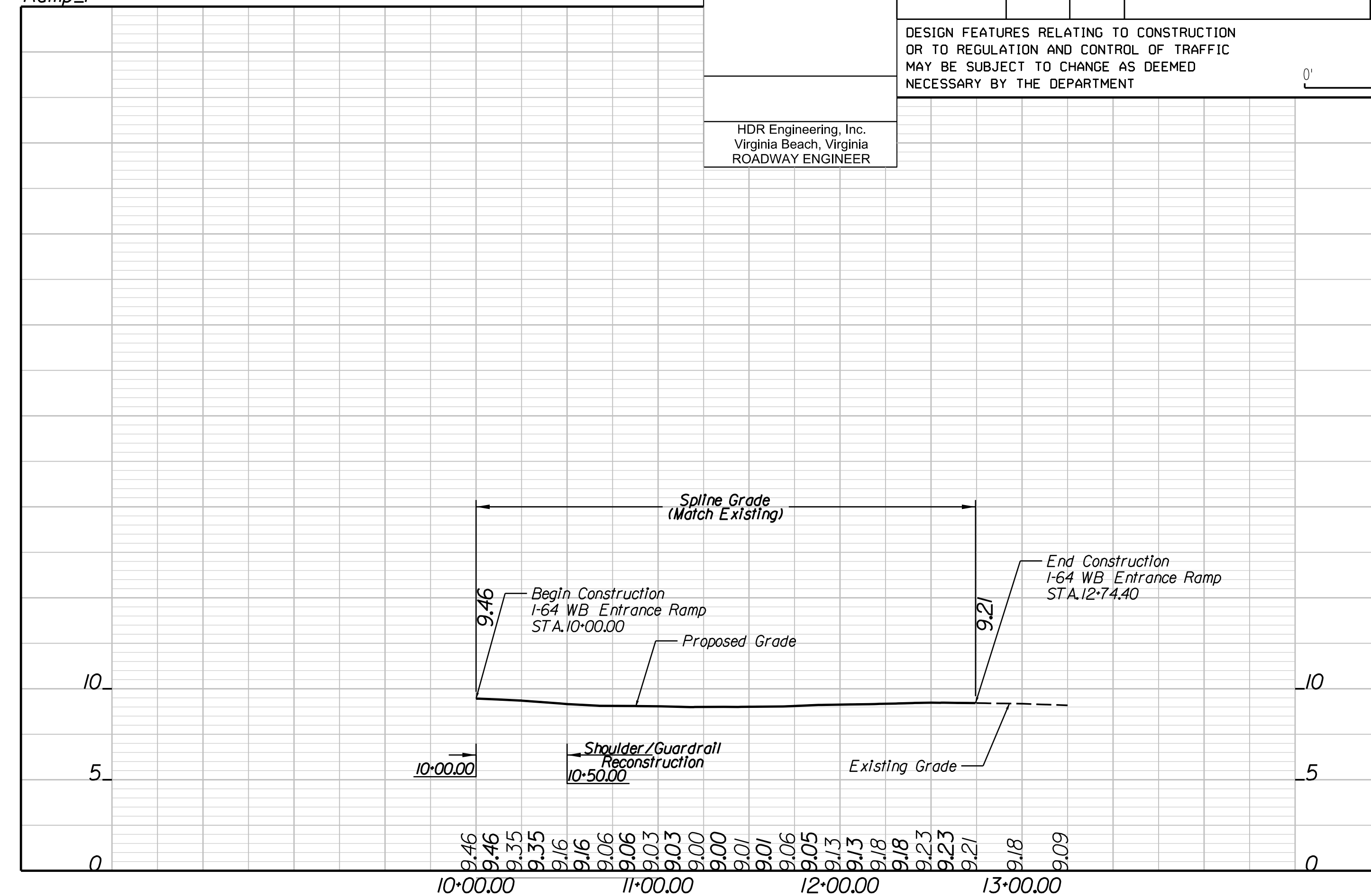
HDR Engineering, Inc.
Virginia Beach, Virginia
ROADWAY ENGINEER



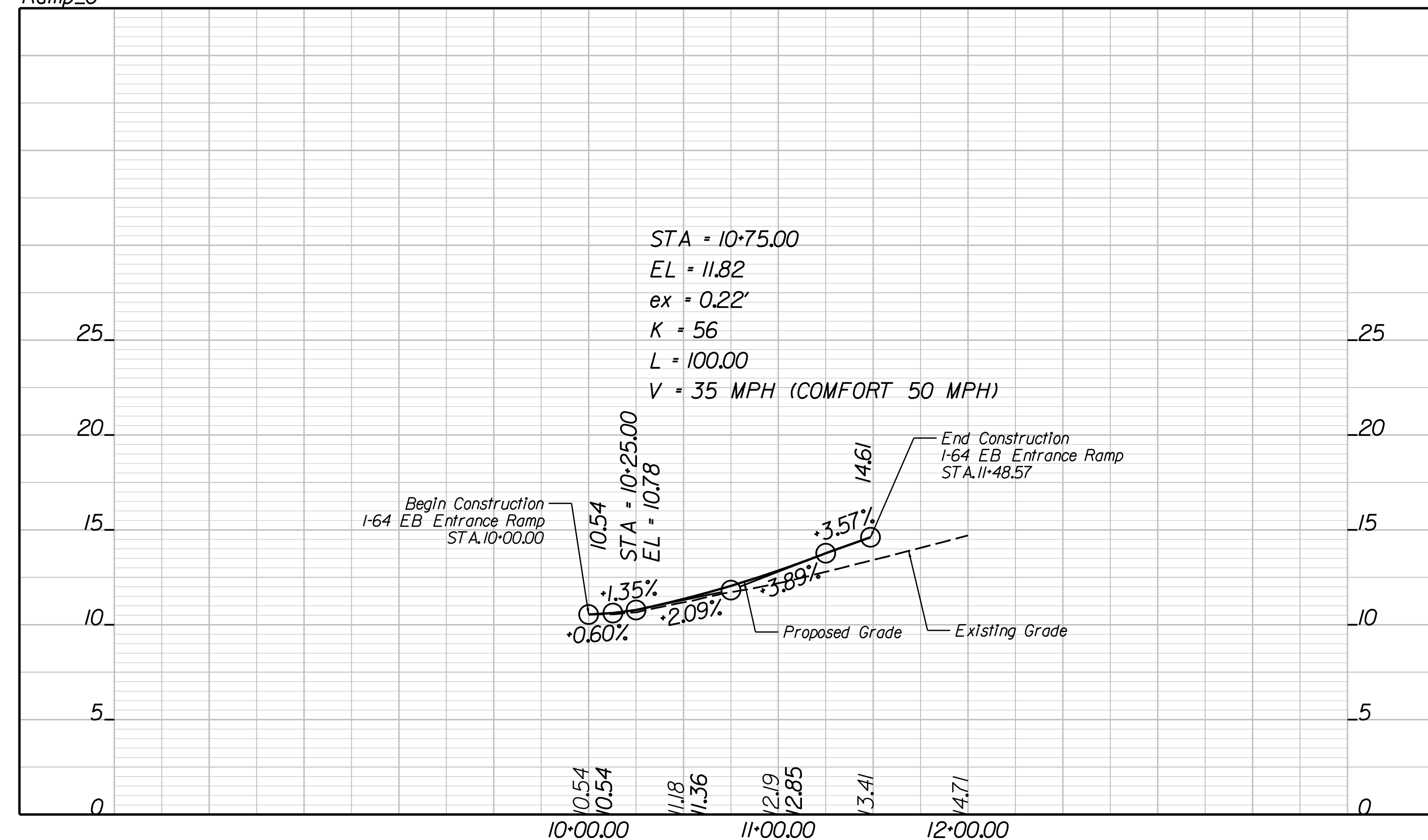
Ramp_E



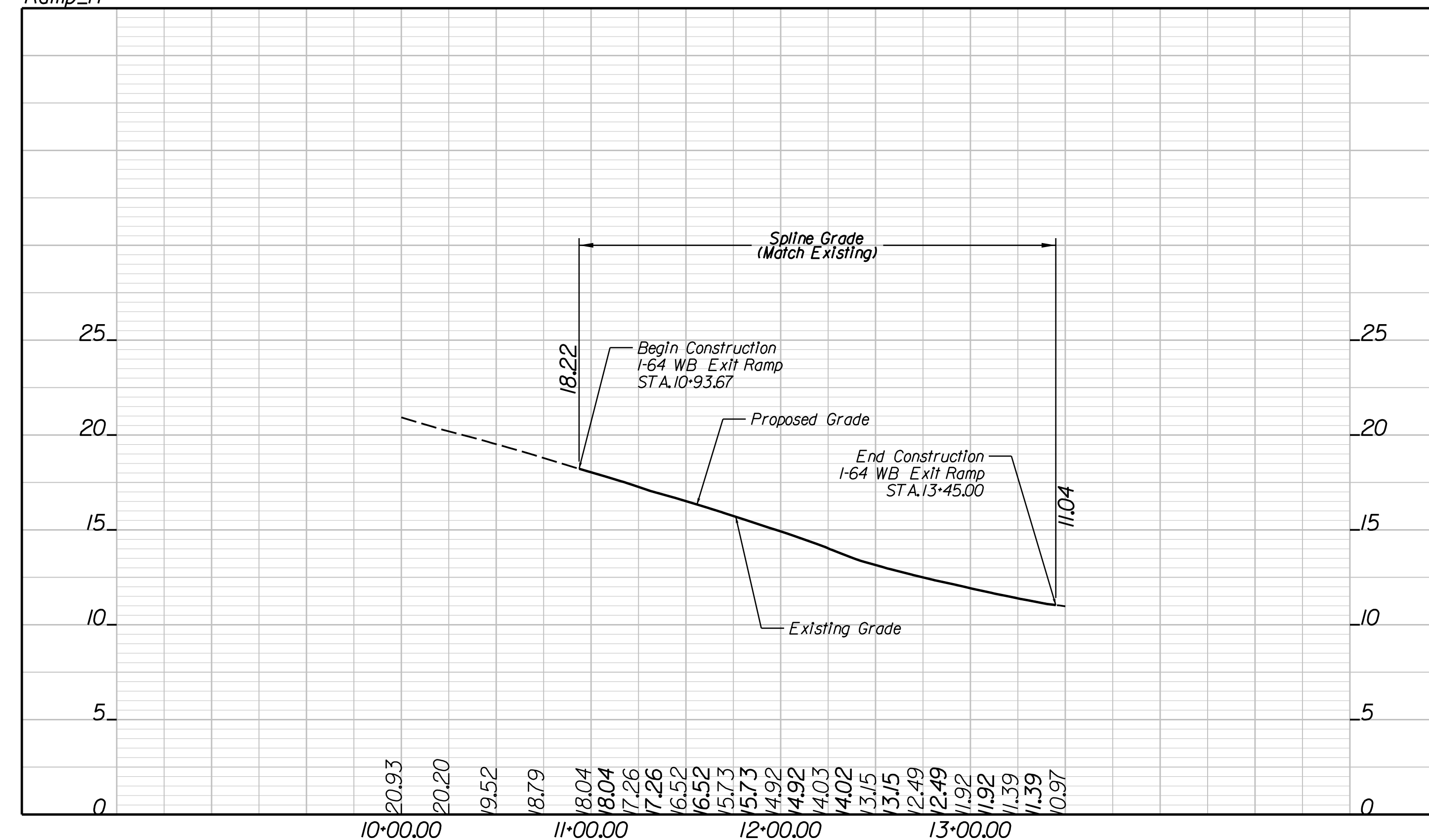
Ramp_F



Ramp_G



Ramp_H



PROJECT
0064-121-418

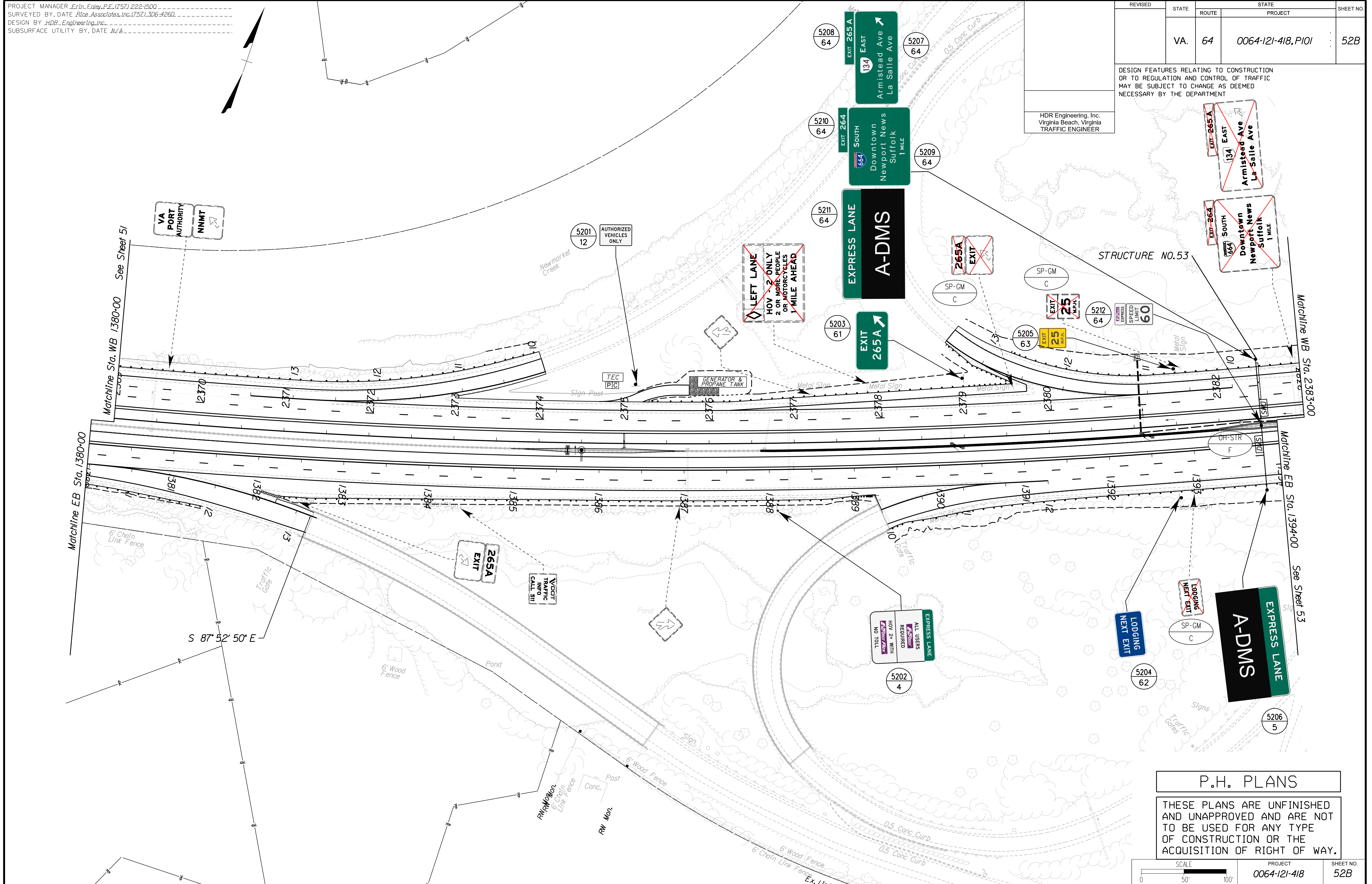
SHEET NO.
52A(2)

PROJECT MANAGER: Erin Eoley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: N/A

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	64		0064-121-418, P101	52B

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER



P.H. PLANS
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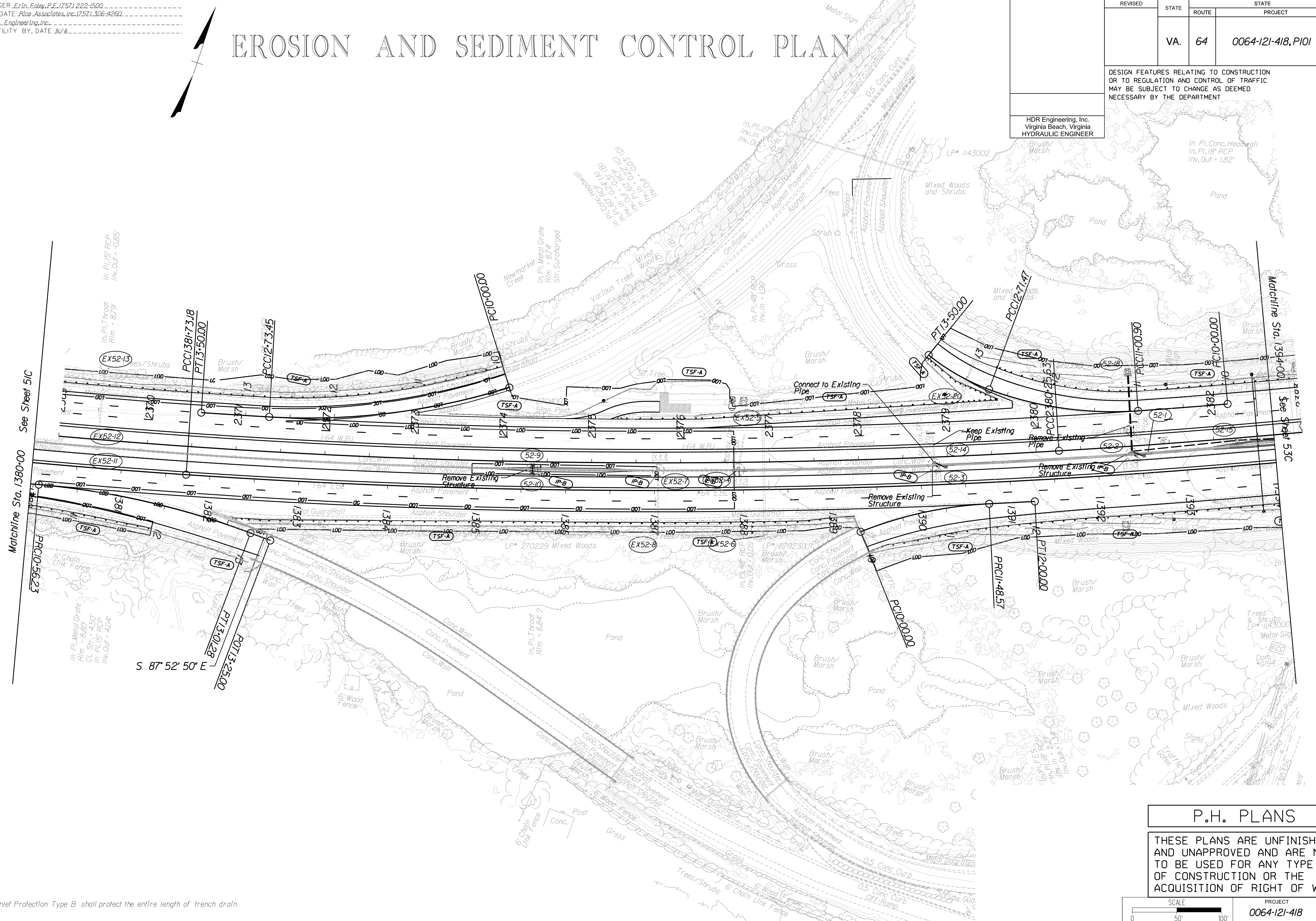
PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: N/A

EROSION AND SEDIMENT CONTROL PLAN

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	64		0064-121-418, P101	52C

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER



1 Inlet Protection Type B shall protect the entire length of trench drain

P.H. PLANS
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PROJECT MANAGER: Erin Foley, P.E. (757) 222-1500
SURVEYED BY: DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR Engineering, Inc.
SUBSURFACE UTILITY BY: DATE: N/A

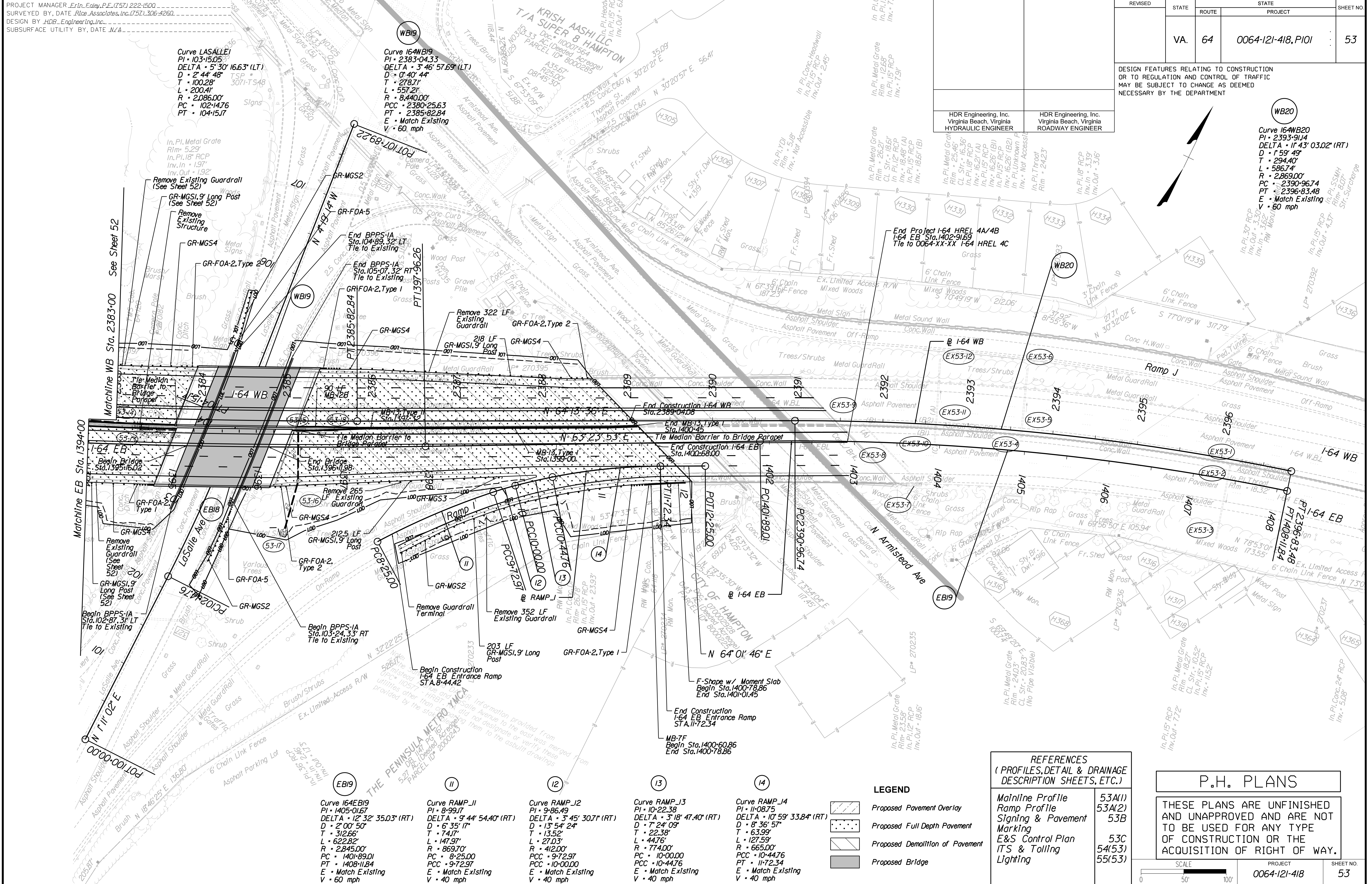
REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	53

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER

HDR Engineering, Inc.
Virginia Beach, Virginia
ROADWAY ENGINEER

WB20
Curve I64WB20
PI - 2393.914
DELTA - 11° 43' 03.02" (RT)
D - 159.49'
T - 294.40'
L - 586.74'
R - 2,869.00'
PC - 2390.9674
PT - 2396.8348
E - Match Existing
V - 60 mph



REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Mainline Profile	53A(1)
Ramp Profile	53A(2)
Signing & Pavement Marking	53B
E&S Control Plan	53C
ITS & Tolling	54(53)
Lighting	55(53)

P.H. PLANS

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SCALE	PROJECT	SHEET NO.
0 50 100'	0064-121-418	53

- EB19**
Curve I64EB19
PI - 1405.0167
DELTA - 12° 32' 35.03" (RT)
D - 2' 00' 50"
T - 312.66'
L - 622.82'
R - 2,845.00'
PC - 1401.8901
PT - 1408.1184
E - Match Existing
V - 60 mph
- II**
Curve RAMP_I1
PI - 8.9917
DELTA - 9° 44' 54.40" (RT)
D - 6' 35' 17"
T - 74.17'
L - 147.97'
R - 869.70'
PC - 8.2500
PT - 9.7297
E - Match Existing
V - 40 mph
- 12**
Curve RAMP_I2
PI - 9.8649
DELTA - 3° 45' 30.71" (RT)
D - 13' 54' 24"
T - 74.17'
L - 27.03'
R - 412.00'
PC - 9.7297
PT - 9.7297
E - Match Existing
V - 40 mph
- 13**
Curve RAMP_I3
PI - 10.2238
DELTA - 3° 18' 47.40" (RT)
D - 7' 24' 09"
T - 13.52'
L - 22.59'
R - 77.400'
PC - 10.0000
PT - 10.4476
E - Match Existing
V - 40 mph
- 14**
Curve RAMP_I4
PI - 11.0875
DELTA - 10° 59' 33.84" (RT)
D - 8' 36' 57"
T - 63.98'
L - 127.59'
R - 665.00'
PC - 10.4476
PT - 11.7234
E - Match Existing
V - 40 mph

LEGEND

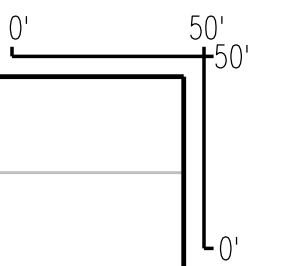
	Proposed Pavement Overlay
	Proposed Full Depth Pavement
	Proposed Demolition of Pavement
	Proposed Bridge

PROJECT MANAGER: Erlin Foley, P.E. (757) 222-1500
 SURVEYED BY, DATE: Rice, Associates, Inc. (757) 306-4260
 DESIGN BY: HDR Engineering, Inc.
 SUBSURFACE UTILITY BY, DATE: N/A

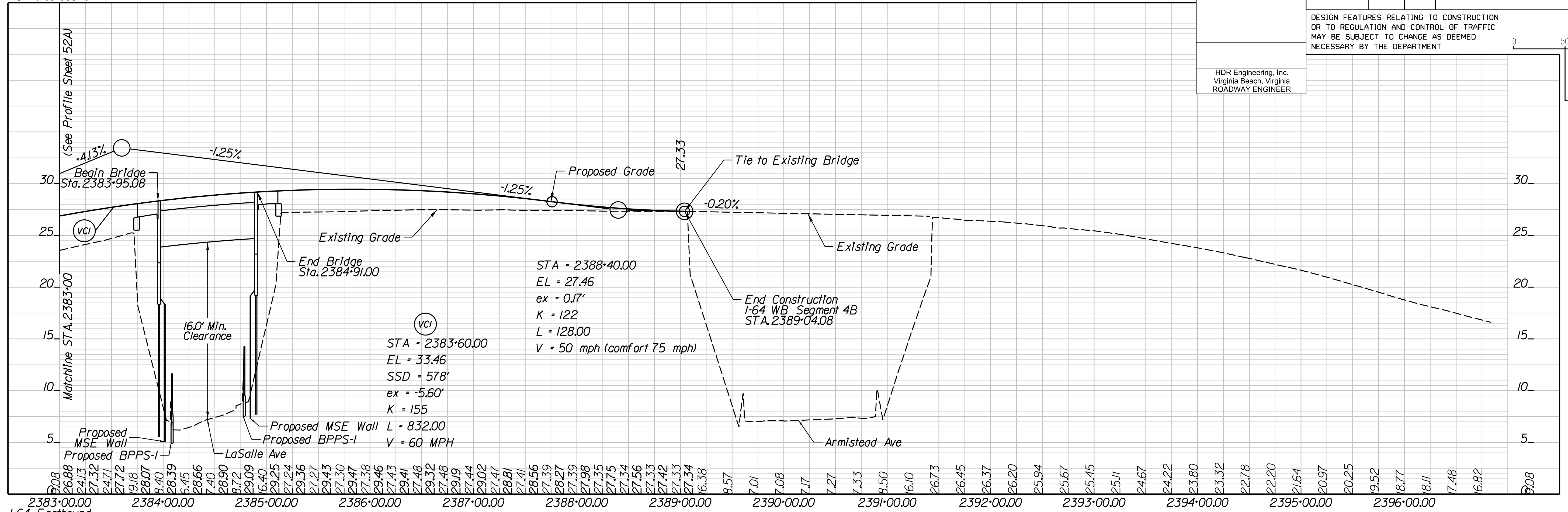
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	53A(1)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

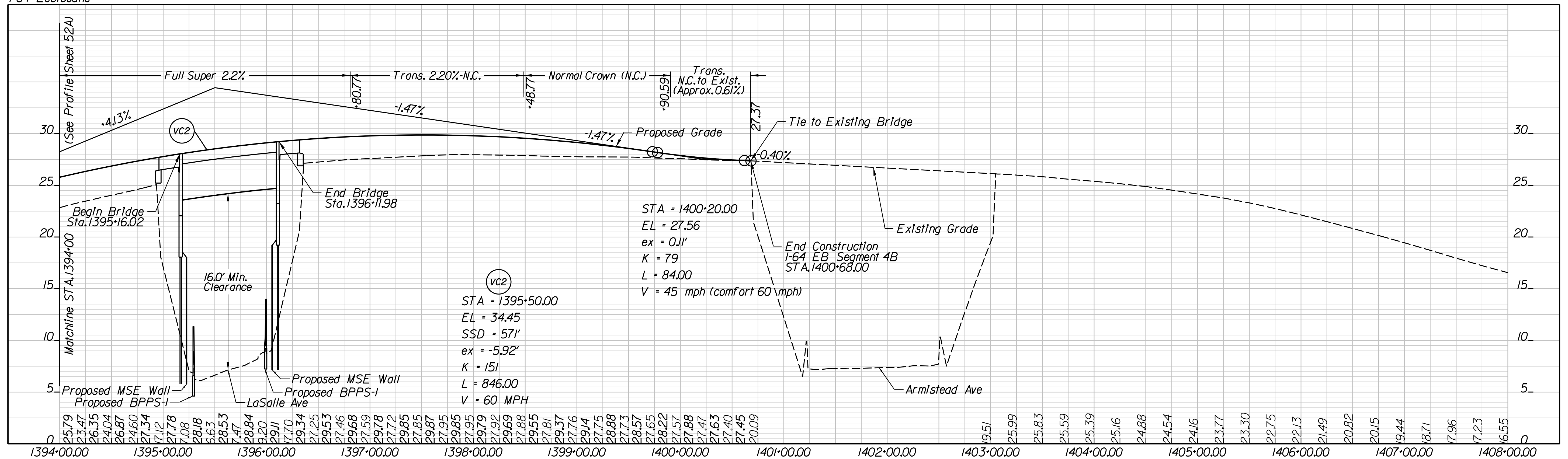
HDR Engineering, Inc.
Virginia Beach, Virginia
ROADWAY ENGINEER



I-64 Westbound



I-64 Eastbound



PROJECT
0064-121-418

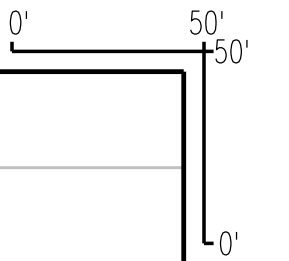
SHEET NO.
53A(1)

PROJECT MANAGER Erlin Foley, P.E. (757) 222-1500
 SURVEYED BY, DATE Rice, Associates, Inc. (757) 306-4260
 DESIGN BY HDR Engineering, Inc.
 SUBSURFACE UTILITY BY, DATE N/A

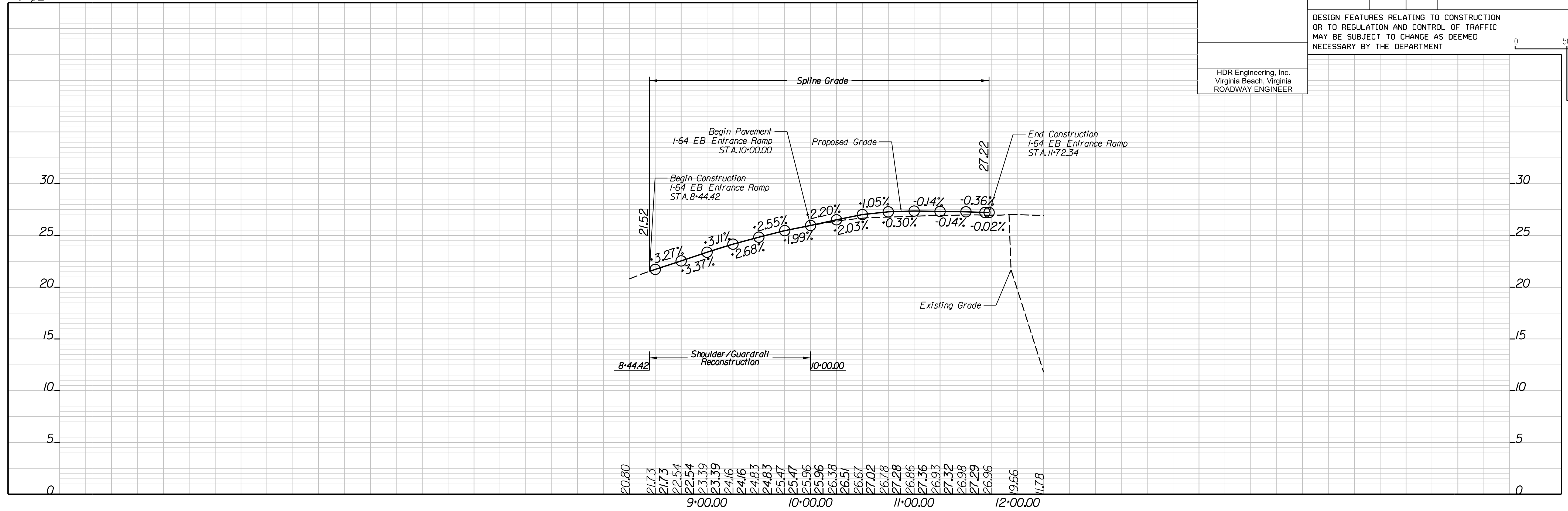
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	53A(2)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
ROADWAY ENGINEER



Ramp_I

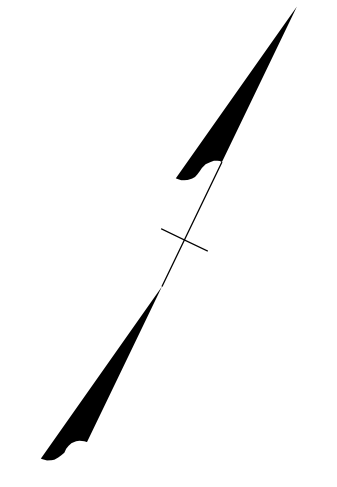


PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineer/Ing, Inc.
SUBSURFACE UTILITY BY, DATE: MZA

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	64		0064-121-418, P101	53B

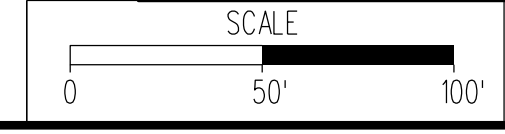
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER



P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.



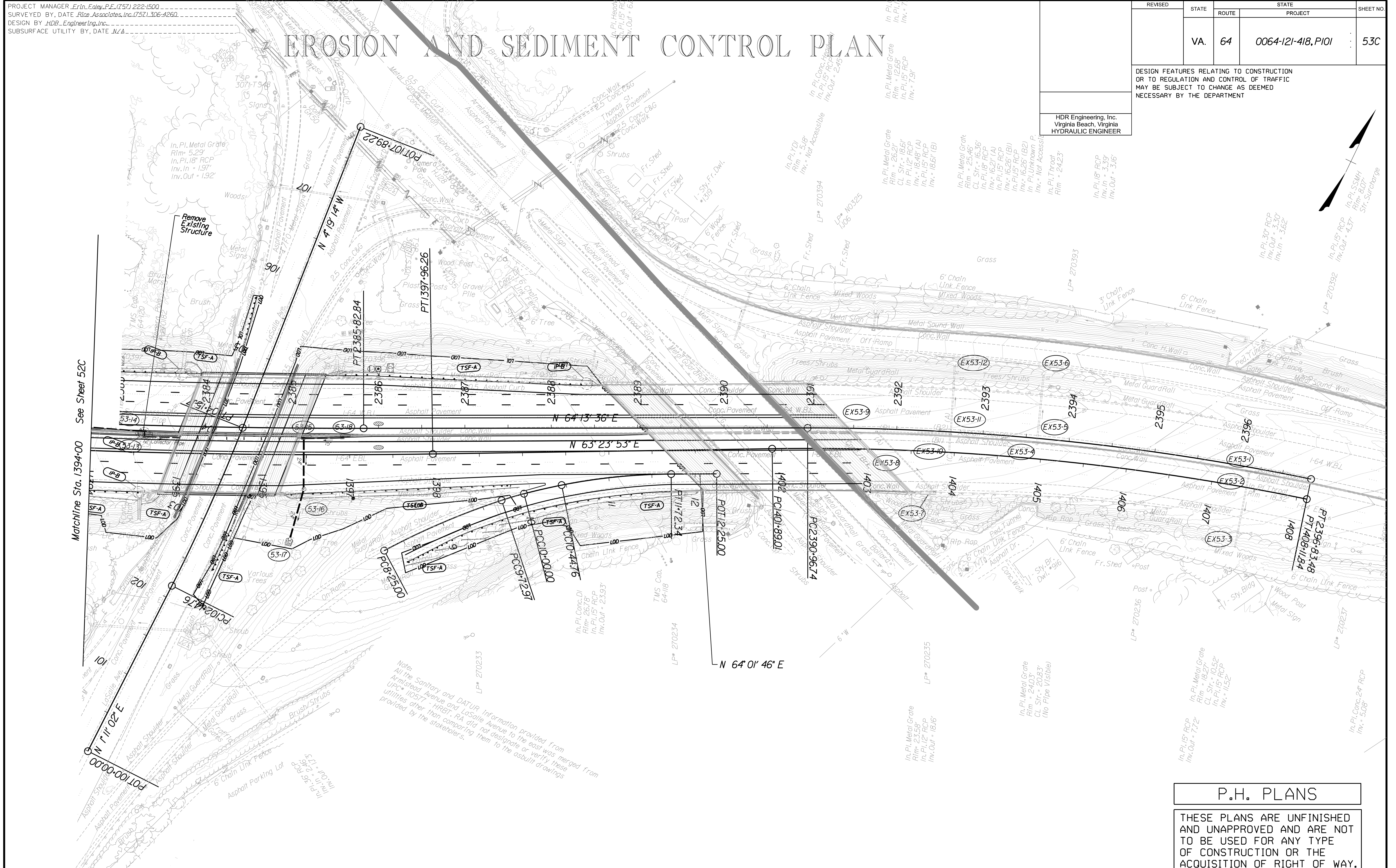
PROJECT MANAGER: ErIn_Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rhee_Associates, Inc. (757) 306-4260
DESIGN BY: HDR_Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: MZA

EROSION AND SEDIMENT CONTROL PLAN

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	64		0064-121-418, P101	53C

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
HYDRAULIC ENGINEER



Note:
All the Sanitary and DATUR information provided from Armistead Avenue and LaSalle Avenue to the east was merged from UPC# 10577 - HRST - Rd did not designate or verify these utilities other than comparing them to the asbuilt drawings provided by the stakeholders.

Inlet Protection Type B shall protect the entire length of trench drain

P.H. PLANS

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SCALE: 0 50 100'

PROJECT: 0064-121-418

SHEET NO.: 53C

PROJECT MANAGER Erin Foley, P.E. (757) 222-1500
 SURVEYED BY, DATE Rhee Associates, Inc. (757) 306-4260
 DESIGN BY HDR Engineering, Inc.
 SUBSURFACE UTILITY BY, DATE N/A

REVISED	STATE	STATE		SHEET NO.
	ROUTE	PROJECT		
	VA.	64	0064-121-418, P101	54(1)
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT				
HDR Engineering, Inc. Virginia Beach, Virginia ITS ENGINEER				

GENERAL NOTES

GENERAL NOTES FOR INTELLIGENT TRANSPORTATION SYSTEMS AND TOLLING INFRASTRUCTURE:

- EXISTING VDOT TRAFFIC MANAGEMENT SYSTEM EQUIPMENT IS SHOWN ON THE PLANS. NOT ALL LOCATIONS HAVE BEEN FIELD VERIFIED. THE CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS AND OPERATIONS PRIOR TO COMMENCING WORK THAT WILL IMPACT THE SYSTEM. SHOULD ANY DISCREPANCIES BETWEEN PLANS AND FIELD CONDITIONS BE IDENTIFIED, NOTIFY VDOT IMMEDIATELY.
- EXISTING VDOT TRAFFIC MANAGEMENT SYSTEM EQUIPMENT SHALL REMAIN IN SERVICE EXCEPT AS NOTED ON THE PLANS OR OTHERWISE APPROVED BY THE VDOT ENGINEER.
- TRAFFIC MANAGEMENT SYSTEM EQUIPMENT THAT IS FOUND DURING THE COURSE OF CONSTRUCTION, THAT IS NOT SHOWN IN THESE PLANS, SHALL BE GOVERNED BY THE SAME PROVISIONS OF THESE GENERAL NOTES AND SHALL BE PAID BY THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY VDOT IMMEDIATELY PRIOR TO COMMENCING ANY WORK THAT WILL IMPACT THE SYSTEM.
- COMMUNICATION CABLES SHALL ONLY BE SPLICED IN EQUIPMENT CABINETS AND PEDESTALS, UNLESS OTHERWISE NOTED ON THE PLANS.
- VERIFY THE CONDITION OF EXISTING VDOT COMMUNICATION CABLES AND MEASURE AND DOCUMENT THE OPTICAL LOSS PRIOR TO COMMENCING ANY WORK ON THE EXISTING VDOT COMMUNICATION CABLES. IN THE EVENT THAT VDOT COMMUNICATION CABLES ARE DAMAGED DUE TO CONSTRUCTION ACTIVITY, NOTIFY VDOT IMMEDIATELY AND REPLACE ALL EXISTING CABLES IN KIND AT THE CONTRACTOR'S EXPENSE.
- NOTIFY VDOT IMMEDIATELY IF ANY THIRD PARTY CABLES ARE IDENTIFIED PRIOR TO COMMENCING ANY WORK THAT WILL IMPACT THE THIRD PARTY CABLES.
- COORDINATE WITH VDOT FOR ACCESS TO EXISTING TRAFFIC MANAGEMENT SYSTEM EQUIPMENT CABINETS.
- ELECTRICAL SERVICE DROP LOCATIONS SHOWN ARE APPROXIMATE LOCATIONS. FINAL LOCATIONS SHALL BE ESTABLISHED BY COORDINATING WITH VDOT.
- PLANS RELATED TO EXISTING VDOT TRAFFIC MANAGEMENT SYSTEM, COMMUNICATIONS, AND INFRASTRUCTURE (CONDUITS, JUNCTION BOXES) HAVE BEEN PREPARED USING A COMBINATION OF ORIGINAL DESIGN DRAWINGS, AS-BUILT DRAWINGS, AND SUPPLEMENTAL INFORMATION PROVIDED BY VDOT. ALL INFORMATION IS SUBJECT TO FIELD VERIFICATION UNLESS OTHERWISE NOTED ON THE PLANS.
- THE CONTRACTOR SHALL MINIMIZE NETWORK DOWNTIME WHEN SPLICING VDOT COMMUNICATION CABLES. NETWORK OUTAGE TIME SHALL NOT EXCEED ONE HOUR IN DURATION, UNLESS OTHERWISE APPROVED BY VDOT.
- THE CONTRACTOR SHALL NOTIFY THE VDOT ENGINEER OF EQUIPMENT THAT IS NOT OPERATIONAL PRIOR TO THE START OF WORK THAT WILL IMPACT THE SYSTEM.
- THE UPS ASSEMBLIES USED TO PROVIDE BACKUP POWER TO ITS EQUIPMENT SHALL PROVIDE 4 HOURS OF CONTINUOUS BACKUP POWER.
- SUNSHIELDS SHALL BE INSTALLED ON ALL ITS CABINETS.
- ITS CABINETS SHALL NOT BE INSTALLED IN DRAINAGE SWALES OR DITCHES.

CONDUIT INSTALLATION NOTES:

- FINAL LAYOUT OF CONDUIT SHALL BE ADJUSTED IN THE FIELD AS NEEDED TO CONFORM TO FIELD CONDITIONS AND UTILITIES AS MARKED.
- LOCATIONS OF EXISTING JUNCTION BOXES, MANHOLES AND CONDUIT SYSTEM SHOWN ON THE PLANS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
- INSTALL AN EQUIPMENT GROUNDING CONDUCTOR ("EGC") IN ALL NON-METALLIC POWER CONDUITS EXCEPT SPARES. THE "EGC" SIZE SHALL BE THE SAME AS THE LARGEST POWER CONDUCTOR IN THE CONDUIT, BUT NO SMALLER THAN #8.
- TRENCH EXCAVATION IN EARTH AREAS SHALL CONFORM TO STANDARD DRAWING ECH-UNLESS OTHERWISE NOTED. THE REQUIRED DEPTH OF THE TRENCH IS MEASURED FROM THE LOW POINT OF THE SLOPE ABOVE.
- USE EXISTING CONDUIT STUB-OUTS WHERE AVAILABLE IN LIEU OF INSTALLING NEW CONDUIT INTO EXISTING MANHOLES, JUNCTION BOXES, AND FOUNDATIONS.
- USE FPE CONDUIT FOR EXPOSED HORIZONTAL RUNS ON BRIDGES, RIGID GALVANIZED STEEL CONDUIT FOR OTHER EXPOSED RUNS, PVC CONDUIT FOR TRENCH RUNS, RIGID GALVANIZED STEEL (RGS) CONDUIT FOR CONDUIT RUNS BETWEEN SERVICE PANEL AND CLOSEST JUNCTION BOX, AND HDPE CONDUIT FOR BORED RUNS.
- COORDINATE ALL WORK WITH OTHER CONTRACTORS TO AVOID CONFLICTS WITH OTHER WORK. CONDUITS SHALL AVOID BRIDGE PIERS, ABUTMENTS, GUARDRAILS, FOUNDATIONS, AND OTHER CIVIL WORKS.
- 2' SEPARATION SHALL BE MAINTAINED BETWEEN THE TRENCH RUNNING LINE AND EXISTING/PROPOSED GUARDRAIL.
- UTILITY DEPTHS AT PROPOSED CONDUIT CROSSINGS ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD. CONDUIT SHALL BE INSTALLED WITH A MINIMUM VERTICAL CLEARANCE OF 3' FROM ANY UNDERGROUND UTILITY. DEVIATION FROM THE PRESCRIBED CLEARANCE WILL BE ALLOWED ONLY WITH THE APPROVAL OF THE VDOT ENGINEER.
- DIRECTIONAL BORING UNDER ROADWAY SHALL BE AT A MINIMUM DEPTH OF 5' BELOW SURFACE ELEVATION.
- NEW CONDUITS INSTALLED INTO EXISTING CABINET FOUNDATIONS SHALL UTILIZE AVAILABLE STUB-OUTS. IF NO STUB-OUTS ARE AVAILABLE, THE CONTRACTOR SHALL SURVEY THE CABINET FOUNDATION AND PROVIDE MEANS AND METHODS FOR CONDUIT ENTRY INTO THE CABINET TO THE VDOT ENGINEER FOR APPROVAL.
- CONDUITS BETWEEN TOLL GANTRIES AND TOLL EQUIPMENT CABINETS SHALL BE 4" RIGID GALVANIZED STEEL.
- ALL CONDUITS AND JUNCTION BOXES SHALL BE INSTALLED AS SHOWN ON THE PLANS UNLESS FIELD CONDITIONS REQUIRE MODIFICATIONS WHERE CONDUIT IS SHOWN. THE CONTRACTOR SHALL NOTIFY THE VDOT ENGINEER OF FIELD ADJUSTMENTS PRIOR TO ANY INSTALLATION.

POWER DISTRIBUTION NOTES:

- CABLES IDENTIFIED TO BE ABANDONED SHALL BE DISCONNECTED FROM THE CABINET, SERVICE PANEL, OR MID POINT JUNCTION BOX AS SHOWN ON THE PLANS. EACH END OF ABANDONED CABLES SHALL BE LABELED "ABANDONED". ABANDONED CABLES SHALL BE PULLED FROM THE SERVICE PANEL OR CABINET TO THE NEAREST JUNCTION BOX AND COILED SUCH THAT THE CABLE LABEL IS VISIBLE AT NO ADDITIONAL COST TO VDOT.
- WHERE CABLES ARE TO BE INSTALLED IN EXISTING CONDUITS, THE CONTRACTOR MAY REMOVE AND DISPOSE OF ANY CABLES CALLED OUT ON THE PLANS TO BE ABANDONED IN ORDER TO FACILITATE INSTALLATION OF NEW CABLES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NEW UTILITY SERVICE CONNECTIONS, INCLUDING FULL COORDINATION WITH THE UTILITY OWNERS AND PAYMENT OF CONNECTION FEES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING THE MONTHLY UTILITY BILLS ASSOCIATED WITH NEW SERVICE PANELS, UP TO AND INCLUDING THE DATE OF SERVICE COMMENCEMENT. THE CONTRACTOR IS RESPONSIBLE TO PERFORM OR CAUSE TO BE PERFORMED THE DESIGN, SUPPLY, AND INSTALLATION OF ALL NEW POWER FEEDS (FROM SERVICE PANEL TO POWER SOURCE) NECESSARY OR FEED MODIFICATIONS REQUIRING SERVICE UPGRADES FROM THE ELECTRIC UTILITY COMPANY.

FIELD EQUIPMENT NOTES:

- ACCOUNT FOR GUARDRAIL DEFLECTION WHEN ADJUSTING ANY POLE OR EQUIPMENT LOCATIONS. MAINTAIN A MINIMUM SETBACK AS FOLLOWS FOR POLES AND CABINETS:
 - GUARDRAIL TYPE GR-2 - 3' CLEAR DISTANCE FROM BACK OF POST.
 - GUARDRAIL TYPE GR-8 - 7' CLEAR DISTANCE FROM BACK OF POST.
 - CONCRETE BARRIER - MINIMUM 3' CLEAR DISTANCE TO THE BACK OF BARRIER IF CABINET DOORS OPEN TOWARDS THE BARRIER, 6' TO BACK OF BARRIER OTHERWISE.
- CONTRACTOR TO REMOVE AND DISPOSE OF EXISTING DETECTOR CABLES AND EQUIPMENT ALONG WITH THE REMOVAL OF THE MVDS.
- VDOT OPERATIONS STAFF WILL MAKE A DETERMINATION IF THE REMOVED ITS EQUIPMENT WILL BE RETAINED BY THE DEPARTMENT FOR SALVAGE OR DISPOSED OF AT THE CONTRACTOR'S EXPENSE. CONTRACTOR WILL COORDINATE WITH TOC OPERATIONS TO DETERMINE WHICH ITS EQUIPMENT WILL BE REMOVED FOR SALVAGE OR DISPOSAL. SALVAGED DEVICES SHALL BE DELIVERED TO:
 PINE CHAPEL AREA HEADQUARTERS
 150 EAST STREET
 HAMPTON, VA 23663
 CONTRACTOR SHALL COORDINATE ANY DMS DROP OFFS WITH LOREN REID AT (757) 763-9639 OR ANDREW PECK (757) 361-3039.

UTILITY NOTES:

- THE EXISTING UNDERGROUND UTILITIES AND STORM SEWERS ARE NOT SHOWN IN THEIR EXACT LOCATION AND MAY NOT BE COMPLETE. ALL UTILITIES SHALL BE MARKED PRIOR TO INITIATION OF CONSTRUCTION. ARRANGE FOR MISS UTILITY TO MARK UNDERGROUND UTILITIES. VDOT'S FACILITIES INCLUDE UNDERGROUND UTILITIES THAT ARE NOT MARKED BY MISS UTILITY. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO MARK THESE UTILITIES AND MAINTAIN THE MARKINGS THROUGH THE LIFE OF THE PROJECT. CONTACT THE VDOT ENGINEER TO ARRANGE FOR VDOT TO MARK VDOT'S CABLES AND CONDUITS PROVIDING TWO WORKING DAYS' NOTICES.
- VERIFY THE DEPTH OF ALL EXISTING UNDERGROUND UTILITIES AT LOCATIONS WHERE PROPOSED CONDUIT BORE OR TRENCH IS CROSSING FOR SALVAGE OR DISPOSAL. SALVAGED DEVICES SHALL BE DELIVERED TO:
- AVOID IMPACTING ANY EXISTING UNDER-DRAIN SYSTEMS AT LOCATIONS WHERE PROPOSED CONDUIT BORE OR TRENCH IS CROSSING.

JUNCTION BOX NOTES:

- DE-WATER ALL EXISTING JUNCTION BOXES BEFORE PERFORMING ANY WORK INSIDE THEM.
- FINAL LAYOUT OF JUNCTION BOXES SHALL BE ADJUSTED IN THE FIELD AS NEEDED TO CONFORM TO FIELD CONDITIONS AND AVOID CONFLICTS WITH DRAINAGE STRUCTURE AND UTILITIES.
- CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL EXISTING MANHOLES AND JUNCTION BOXES BEFORE COMMENCING ANY WORK WITH THEM. IN CASE THE JUNCTION BOXES COULD NOT BE VERIFIED OR ARE NOT IN PLACE AS SHOWN IN PLANS, CONTACT THE VDOT ENGINEER FOR FURTHER ACTION.
- JUNCTION BOXES SHALL NOT BE INSTALLED IN DRAINAGE SWALES OR DITCHES.
- THESE PLANS ARE NOT INTENDED TO SHOW ALL JUNCTION BOX LOCATIONS.

P.H. PLANS

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SCALE 0 50' 100'	PROJECT 0064-121-418	SHEET NO. 54(1)
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PROJECT MANAGER *Erin Foley, P.E. (757) 222-1500*
 SURVEYED BY, DATE *Rico Associates, Inc. (757) 306-4260*
 DESIGN BY *HDR, Engineer Inc.*
 SUBSURFACE UTILITY BY, DATE *N/A*

	REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
		VA.	64	0064-121-418, P101	54(2)
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT					
HDR Engineering, Inc. Virginia Beach, Virginia ITS ENGINEER					

ITS & TOLLING LEGEND AND ABBREVIATIONS

EXISTING	PROPOSED	DESCRIPTION
		GENERAL USE LANES DYNAMIC MESSAGE SIGN (DMS)
NOT USED		TOLL PRICING DYNAMIC MESSAGE SIGN (DMS)
NOT USED		
NOT USED		EXPRESS LANE INFORMATIONAL DYNAMIC MESSAGE SIGN (DMS)
		MICROWAVE VEHICLE DETECTION SYSTEM (MVDS - ATMS)
NOT USED		MICROWAVE VEHICLE DETECTION SYSTEM (MVDS - TOLL)
NOT USED		DETECTION ZONE - ATMS
NOT USED		DETECTION ZONE - TOLL
		CLOSED CIRCUIT TELEVISION (CCTV) CAMERA
		MVDS POLE
		CCTV POLE
		GROUND MOUNTED ITS CABINET
		POLE/STRUCTURE MOUNTED EQUIPMENT MULTI-CABINET
		FIBER JUNCTION BOX
		POWER JUNCTION BOX
		ELECTRICAL SERVICE PANEL
NOT USED		TOLLING EQUIPMENT CABINET
NOT USED		TOLL GANTRY
NOT USED		PERMANENT STANDBY GENERATOR, PROPANE TANK, AND ELECTRICAL SERVICE PANEL
		OVERHEAD SPAN SIGN STRUCTURE
	NOT USED	COMMUNICATION/CONTROL
	NOT USED	EQUIPMENT POWER
	NOT USED	ROW

ACRONYMS / ABBREVIATIONS

- A-DMS
 - AASHTO
 - ASTM
 - ATMS
 - AWG
 - CAB
 - CCTV
 - COMM.
 - DMS
 - EB
 - EGC
 - EL
 - EXIST.
 - FT
 - FOC
 - GND
 - GP
 - HDPE
 - HOV
 - HRTOC
 - ITS
 - JB
 - L2
 - L3
 - MAX.
 - MIN.
 - MVDS
 - MM
 - NEC
 - NEMA
 - NTS
 - PVC
 - RGS
 - STA
 - SM
 - SP
 - TEC
 - T-DMS
 - TOP
 - UPS
 - TYP.
 - VDOT
 - VMS
 - WB
 - XFMR
- ARTERIAL DYNAMIC MESSAGE SIGN
 - AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
 - AMERICAN SOCIETY FOR TESTING AND MATERIALS
 - ADVANCED TRAFFIC MANAGEMENT SYSTEM
 - AMERICAN WIRE GAUGE
 - CABINET
 - CLOSED CIRCUIT TELEVISION
 - COMMUNICATION
 - DYNAMIC MESSAGE SIGN
 - EASTBOUND
 - EQUIPMENT GROUNDING CONDUCTOR
 - EXPRESS LANE
 - EXISTING
 - FEET
 - FIBER OPTIC COMMUNICATION
 - GROUND
 - GENERAL PURPOSE
 - HIGH-DENSITY POLYETHYLENE CONDUIT
 - HIGH-OCCUPANCY VEHICLE
 - HAMPTON ROADS TRANSPORTATION OPERATIONS CENTER
 - INTELLIGENT TRANSPORTATION SYSTEMS
 - JUNCTION BOX
 - LAYER 2
 - LAYER 3
 - MAXIMUM
 - MINIMUM
 - MICROWAVE VEHICLE DETECTION SYSTEM
 - MULTI-MODE
 - NATIONAL ELECTRIC CODE
 - NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
 - NOT TO SCALE
 - POLYVINYL CHLORIDE
 - RIGID GALVANIZED STEEL
 - STATION
 - SINGLE MODE
 - SERVICE PANEL
 - TOLLING EQUIPMENT CABINET
 - TOLLING DYNAMIC MESSAGE SIGN
 - TRANSPORTATION OPERATIONS PLAN
 - UNINTERRUPTIBLE POWER SUPPLY
 - TYPICAL
 - VIRGINIA DEPARTMENT OF TRANSPORTATION
 - VARIABLE MESSAGE SIGN
 - WESTBOUND
 - TRANSFORMER

P.H. PLANS

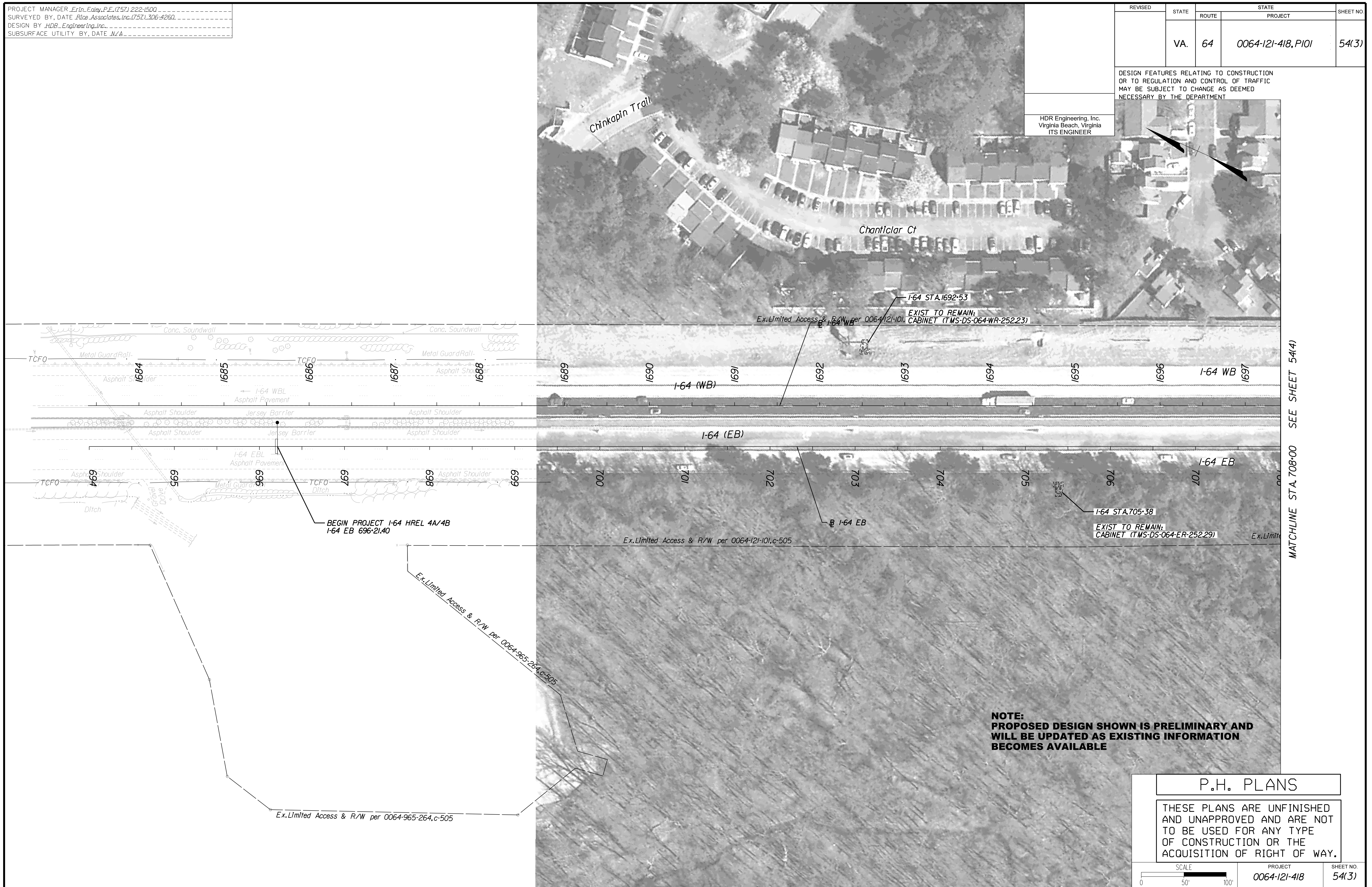
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
 SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
 DESIGN BY: HDR Engineering, Inc.
 SUBSURFACE UTILITY BY, DATE: N/A

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	54(3)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
ITS ENGINEER



MATCHLINE STA. 708+00 SEE SHEET 54(4)

P.H. PLANS

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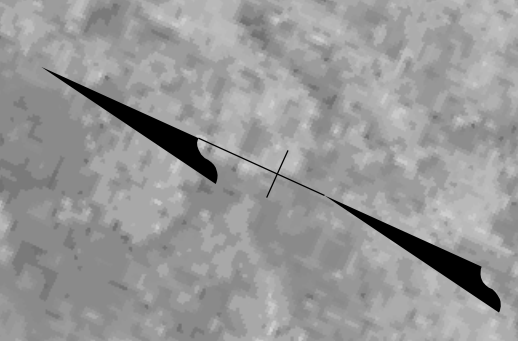
SCALE 0 50 100'	PROJECT 0064-121-418	SHEET NO. 54(3)
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PROJECT MANAGER: Erin Eoley, P.E. (757) 222-1500
 SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
 DESIGN BY: HDR Engineering, Inc.
 SUBSURFACE UTILITY BY, DATE: N/A

REVISED	STATE	STATE		SHEET NO.
	ROUTE	PROJECT		
	VA.	64	0064-121-418, P101	54(4)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

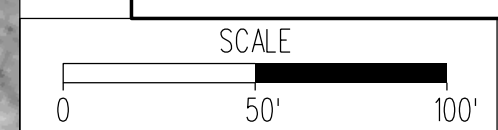
HDR Engineering, Inc.
Virginia Beach, Virginia
ITS ENGINEER



**NOTE:
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BECOMES AVAILABLE**

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PROJECT: 0064-121-418
SHEET NO: 54(4)

PROJECT MANAGER: Erin Eoley, P.E. (757) 222-1500
 SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
 DESIGN BY: HDR Engineering, Inc.
 SUBSURFACE UTILITY BY, DATE: N/A

REVISED	STATE	STATE		SHEET NO.
	ROUTE	PROJECT		
	VA.	64	0064-121-418, P101	54(5)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
ITS ENGINEER



MATCHLINE STA. 722+00 SEE SHEET 54(4)

MATCHLINE STA. 736+00 SEE SHEET 54(6)

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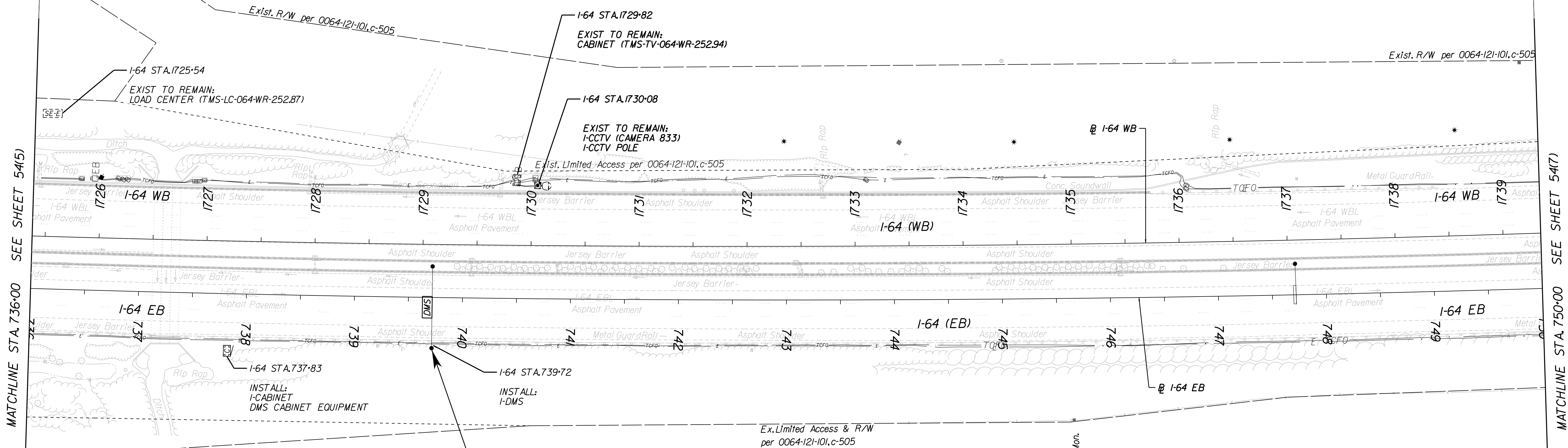
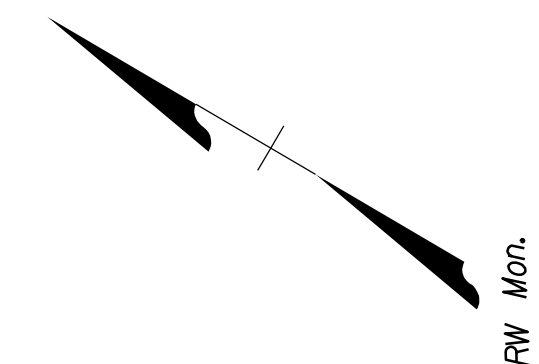
SCALE 0 50' 100'	PROJECT 0064-121-418	SHEET NO. 54(5)
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PROJECT MANAGER: Erin Foley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineer/Ing, Inc.
SUBSURFACE UTILITY BY, DATE: N/A

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	64		0064-121-418, P101	54(6)

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ITS ENGINEER



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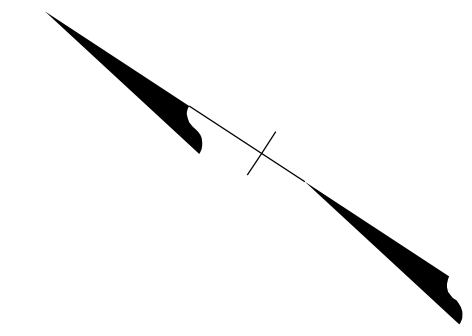
SCALE 0 50' 100'	PROJECT 0064-121-418	SHEET NO. 54(6)
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SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDR Engineering, Inc.
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REVISED	STATE	STATE		SHEET NO.
	ROUTE	PROJECT		
	VA.	64	0064-121-418, P101	54(7)

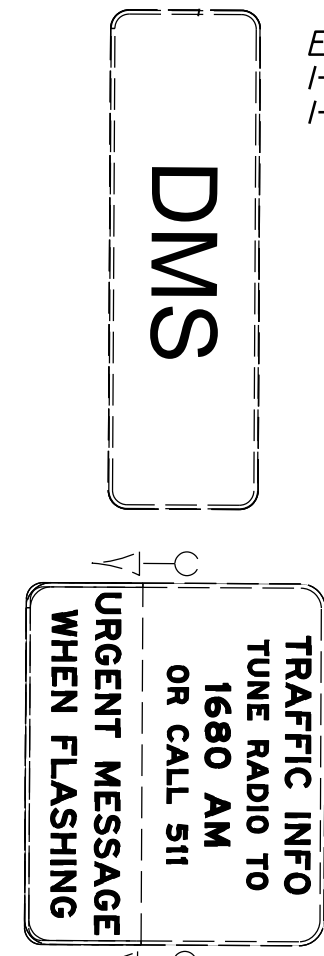
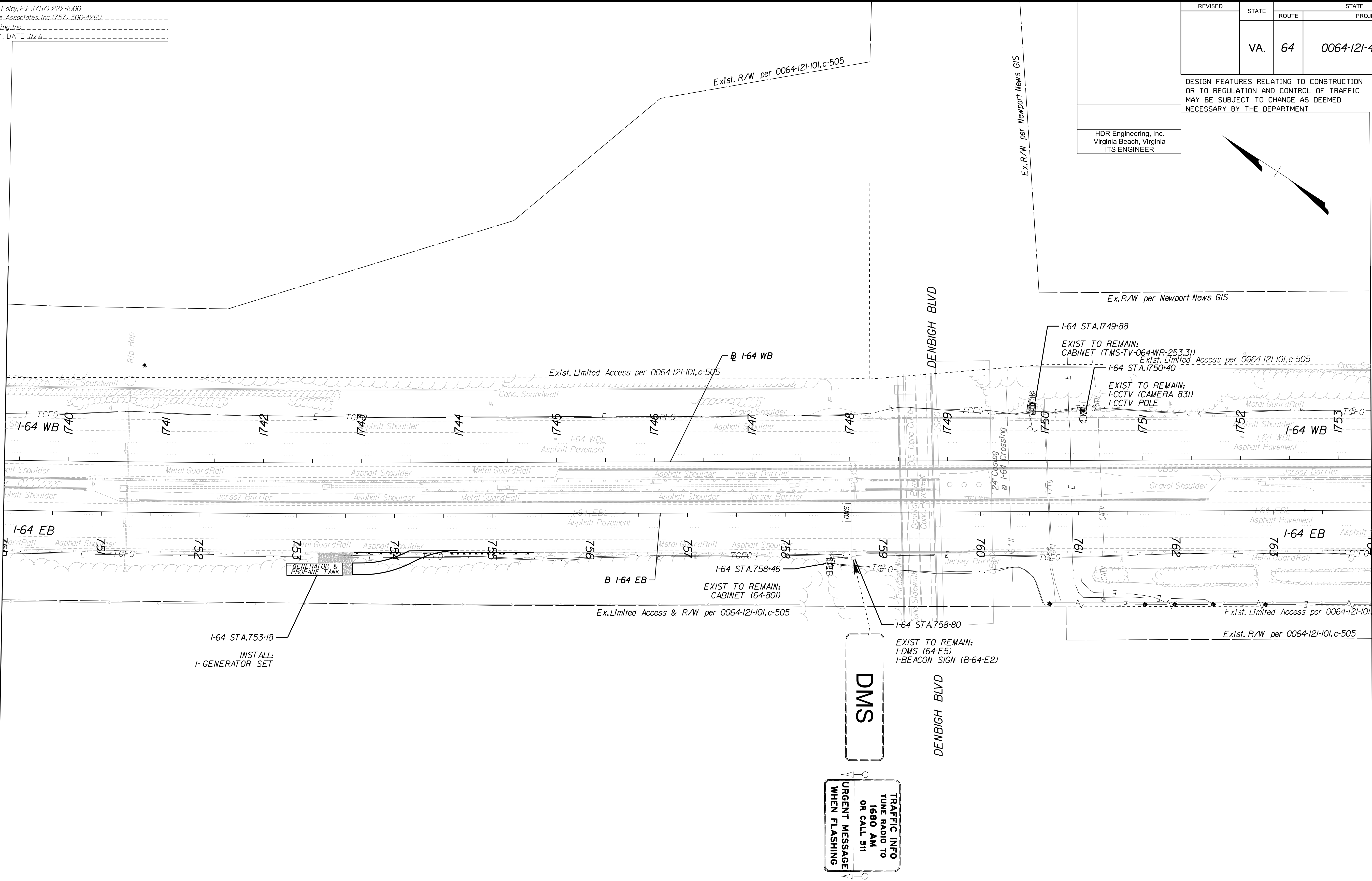
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HDR Engineering, Inc.
Virginia Beach, Virginia
ITS ENGINEER



MATCHLINE STA. 750+00 SEE SHEET 54(6)

MATCHLINE STA. 764+00 SEE SHEET 54(8)



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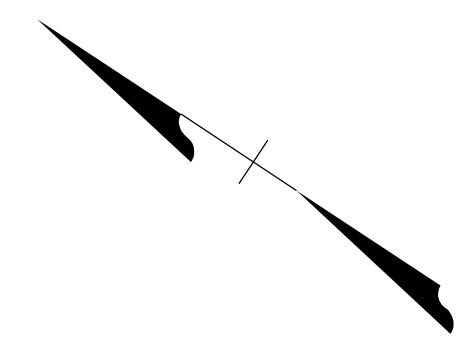
SCALE 0 50 100'	PROJECT 0064-121-418	SHEET NO. 54(7)
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PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
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REVISED	STATE		STATE		SHEET NO.
	STATE	ROUTE	PROJECT		
	VA.	64	0064-121-418, P101		54(8)

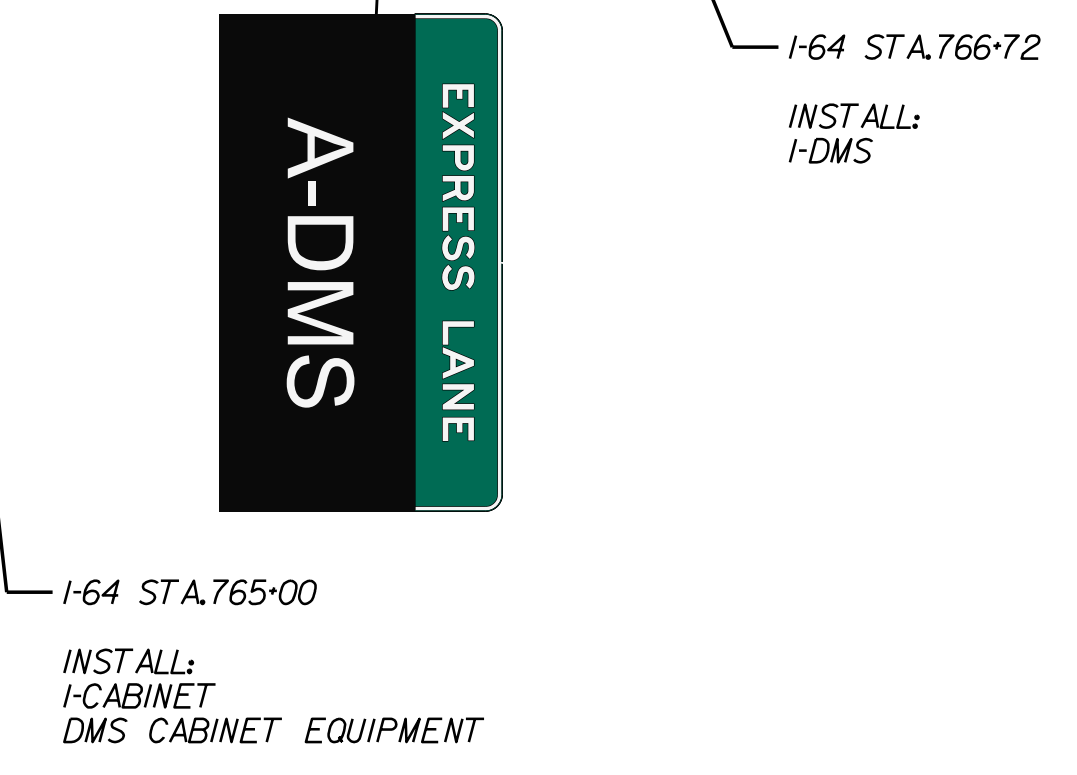
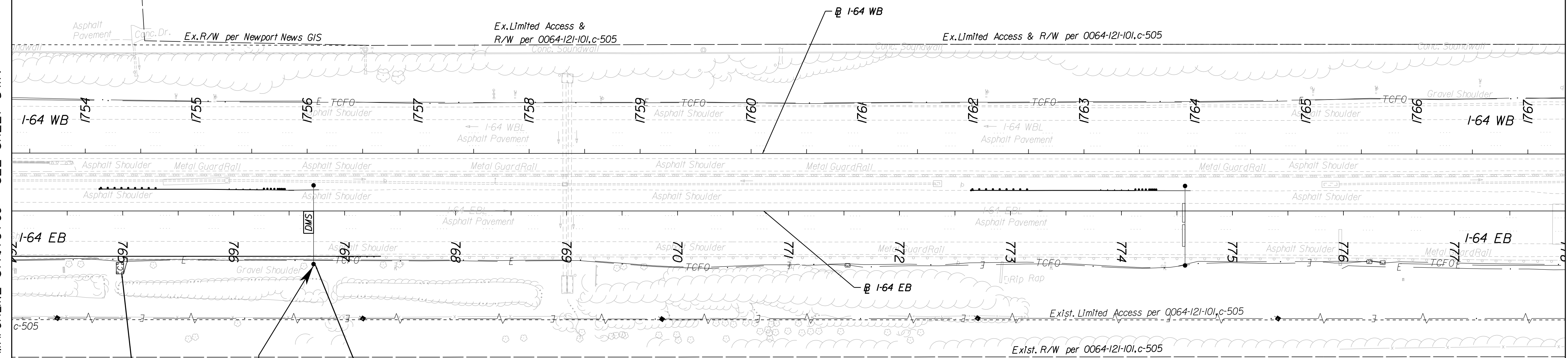
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
ITS ENGINEER



MATCHLINE STA. 764+00 SEE SHEET 54(7)

MATCHLINE STA. 778+00 SEE SHEET 54(9)



P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

SCALE

PROJECT

0064-121-418

SHEET NO.

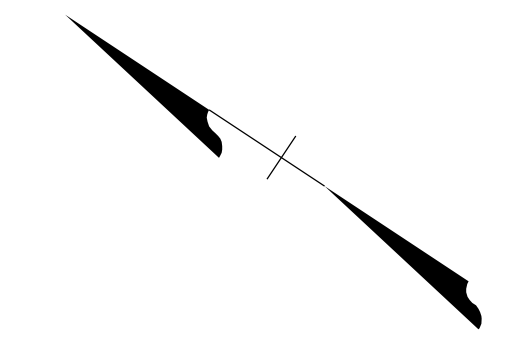
54(8)

PROJECT MANAGER: Erin Eoley, P.E. (757) 222-1500
 SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
 DESIGN BY: HDR, Engineer/Ing, Inc.
 SUBSURFACE UTILITY BY, DATE: MZA

REVISED	STATE		STATE		SHEET NO.
	ROUTE	PROJECT	ROUTE	PROJECT	
	VA.	64	0064-121-418, P101		54(9)

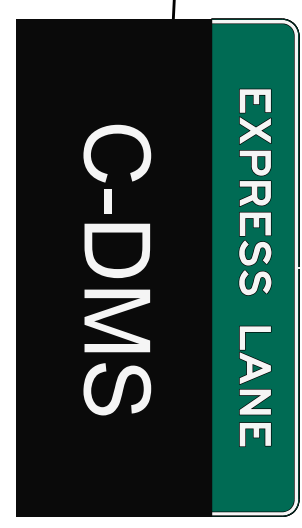
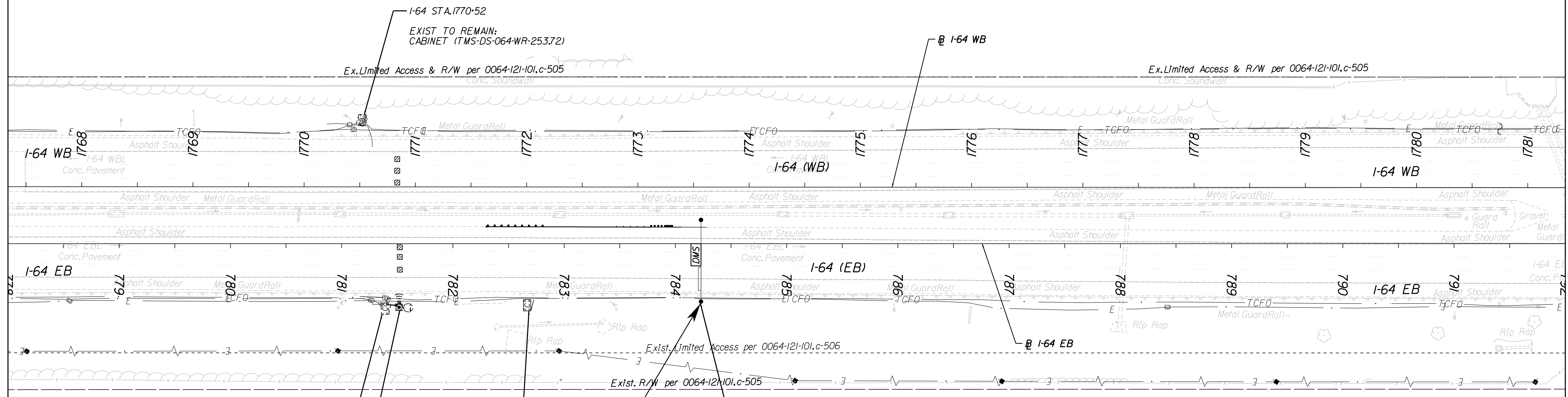
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
ITS ENGINEER



MATCHLINE STA. 778+00 SEE SHEET 54(8)

MATCHLINE STA. 792+00 SEE SHEET 54(10)



P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

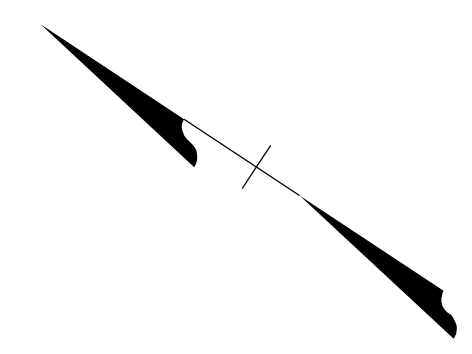
SCALE 0 50 100'	PROJECT 0064-121-418	SHEET NO. 54(9)
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PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
 SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
 DESIGN BY: HDR Engineering, Inc.
 SUBSURFACE UTILITY BY, DATE: MZA

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	54(10)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

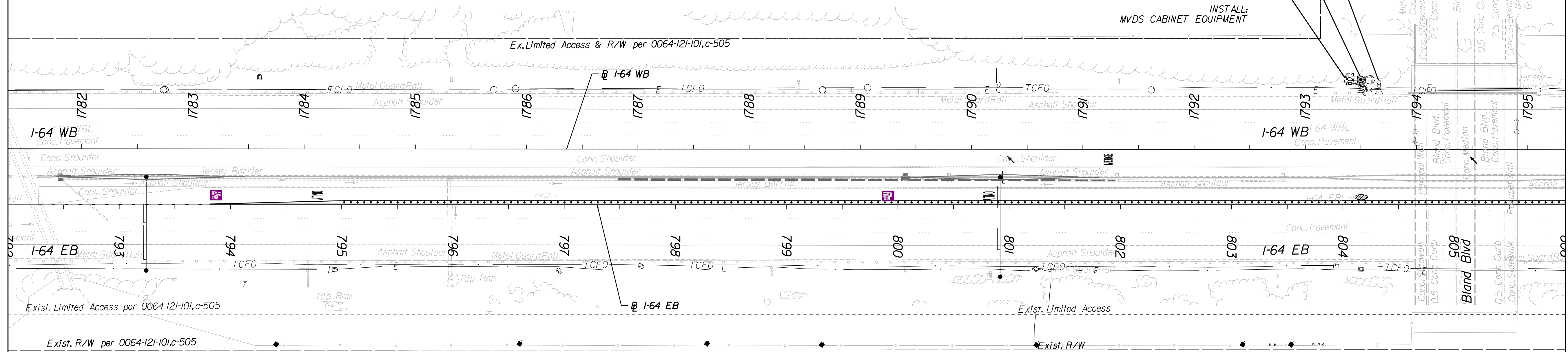
HDR Engineering, Inc.
Virginia Beach, Virginia
ITS ENGINEER



- I-64 STA. 1793+66
EXIST TO REMOVE:
I-ABANDONED DETECTOR
- I-64 STA. 1793+50
EXIST TO REMAIN:
I-CCTV (CAMERA 829)
I-CCTV POLE
- INSTALL:
I-MVDS - TOLL
- I-64 STA. 1793+40
EXIST TO REMAIN:
CABINET (TMS-TV-064-WR-254J7)
- INSTALL:
MVDS CABINET EQUIPMENT

MATCHLINE STA. 792+00 SEE SHEET 54(9)

MATCHLINE STA. 806+00 SEE SHEET 54(11)



P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

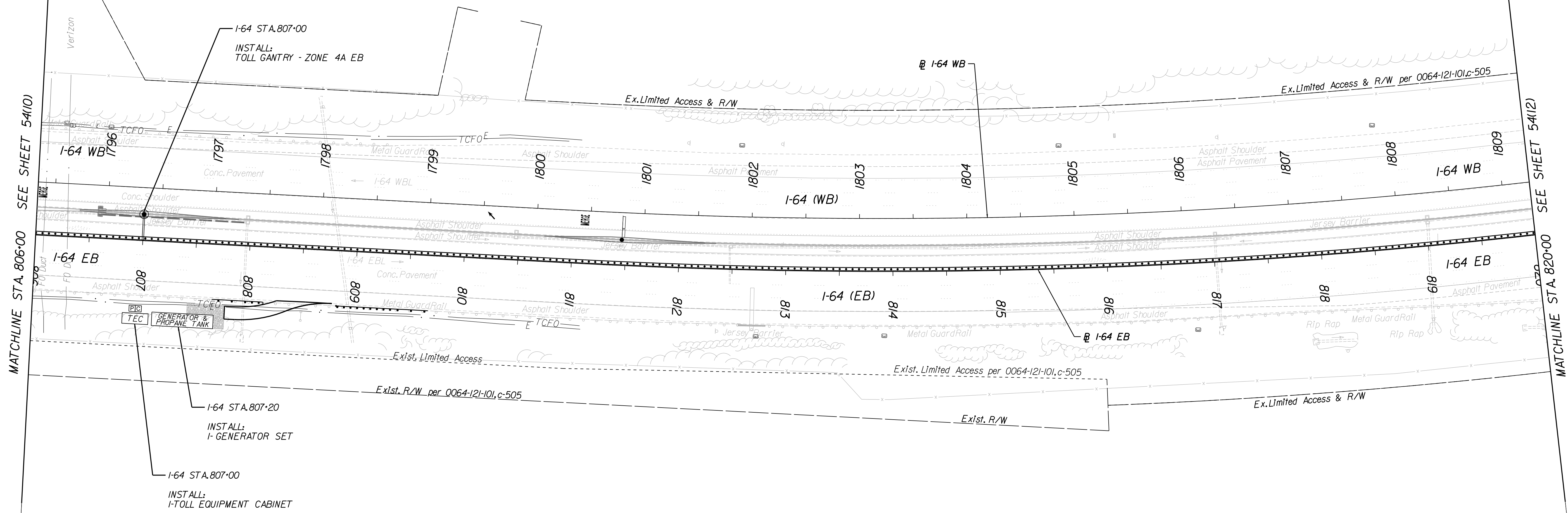
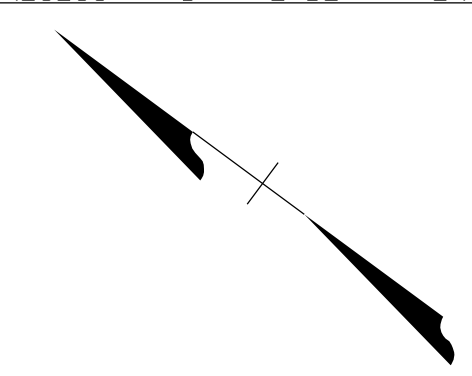
SCALE 0 50 100'	PROJECT 0064-121-418	SHEET NO. 54(10)
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PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
 SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
 DESIGN BY: HDR Engineering, Inc.
 SUBSURFACE UTILITY BY, DATE: MZA

REVISED	STATE		STATE PROJECT	SHEET NO.
	VA.	ROUTE 64		
			0064-121-418, P101	54(II)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
ITS ENGINEER



P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

SCALE: 0 50' 100'

PROJECT: 0064-121-418

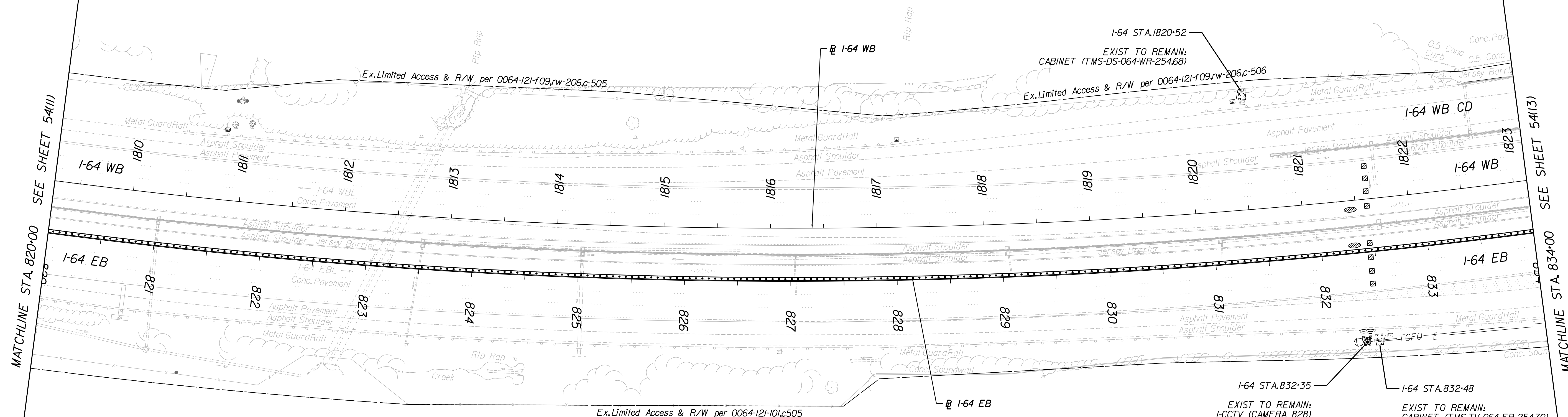
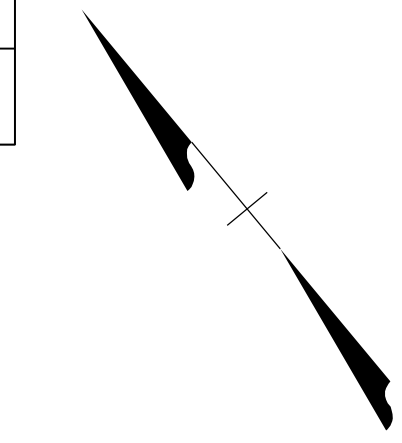
SHEET NO.: 54(II)

PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
 SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
 DESIGN BY: HDR, Engineer/ing, Inc.
 SUBSURFACE UTILITY BY, DATE: MZA

REVISED	STATE		STATE		SHEET NO.
	ROUTE	PROJECT	PROJECT	PROJECT	
	VA.	64	0064-121-418, P101		54(12)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
ITS ENGINEER



I-64 STA. 832-35
 EXIST TO REMAIN:
 I-CCTV (CAMERA 828)
 I-CCTV POLE
 EXIST TO REPLACE:
 I-MVDS - ATMS
 INSTALL
 I-MVDS - TOLL

I-64 STA. 832-48
 EXIST TO REMAIN:
 CABINET (TMS-TV-064-ER-25470)
 INSTALL:
 MVDS CABINET EQUIPMENT

P.H. PLANS

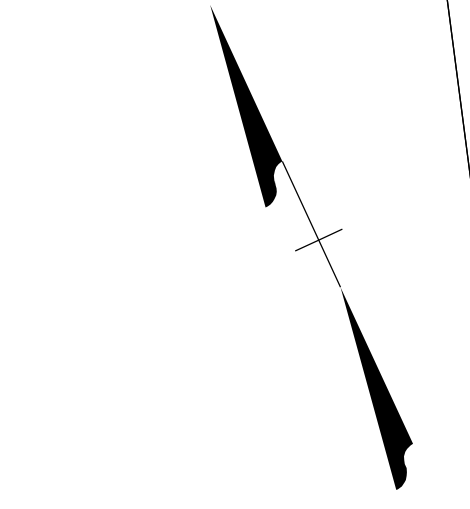
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
 SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
 DESIGN BY: HDR, Engineering, Inc.
 SUBSURFACE UTILITY BY, DATE: MZA

REVISED	STATE	STATE		SHEET NO.
	ROUTE	PROJECT		
	VA.	64	0064-121-418, P101	54(13)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

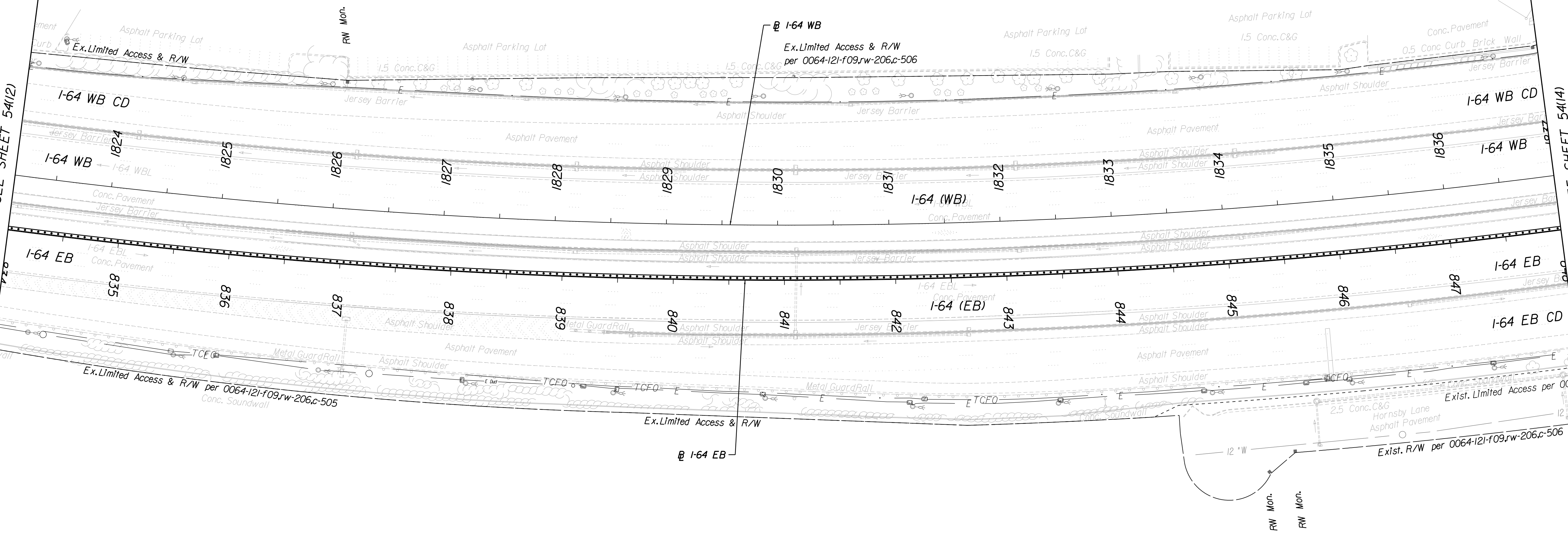
HDR Engineering, Inc.
Virginia Beach, Virginia
ITS ENGINEER



Walmart Supercenter
2 - Sty. Br. & C.B. Bldg.
#12401

MATCHLINE STA. 834+00 SEE SHEET 54(12)

MATCHLINE STA. 848+00 SEE SHEET 54(14)



P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

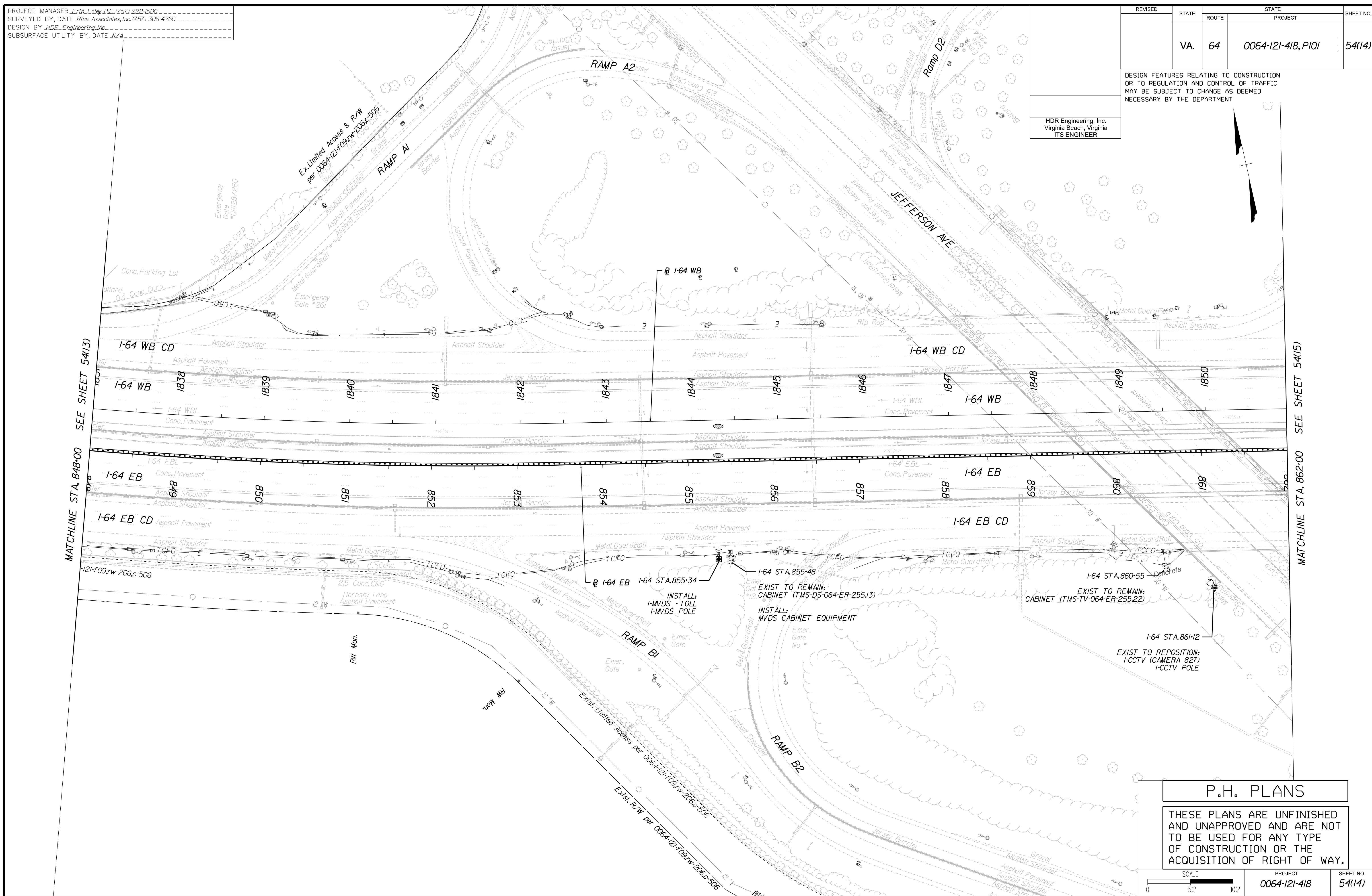
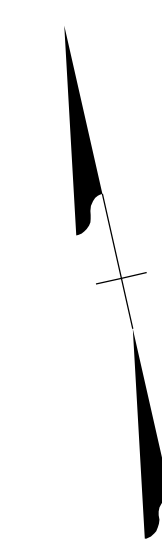
SCALE 0 50 100'	PROJECT 0064-121-418	SHEET NO. 54(13)
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PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineer/Inc.
SUBSURFACE UTILITY BY, DATE: MZA

REVISED	STATE		STATE PROJECT	SHEET NO.
	VA.	ROUTE 64		
			0064-121-418, P101	54(14)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
ITS ENGINEER

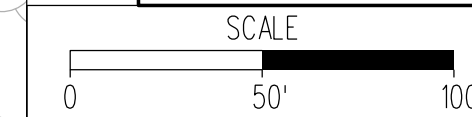


MATCHLINE STA. 848+00 SEE SHEET 54(13)

MATCHLINE STA. 862+00 SEE SHEET 54(15)

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.



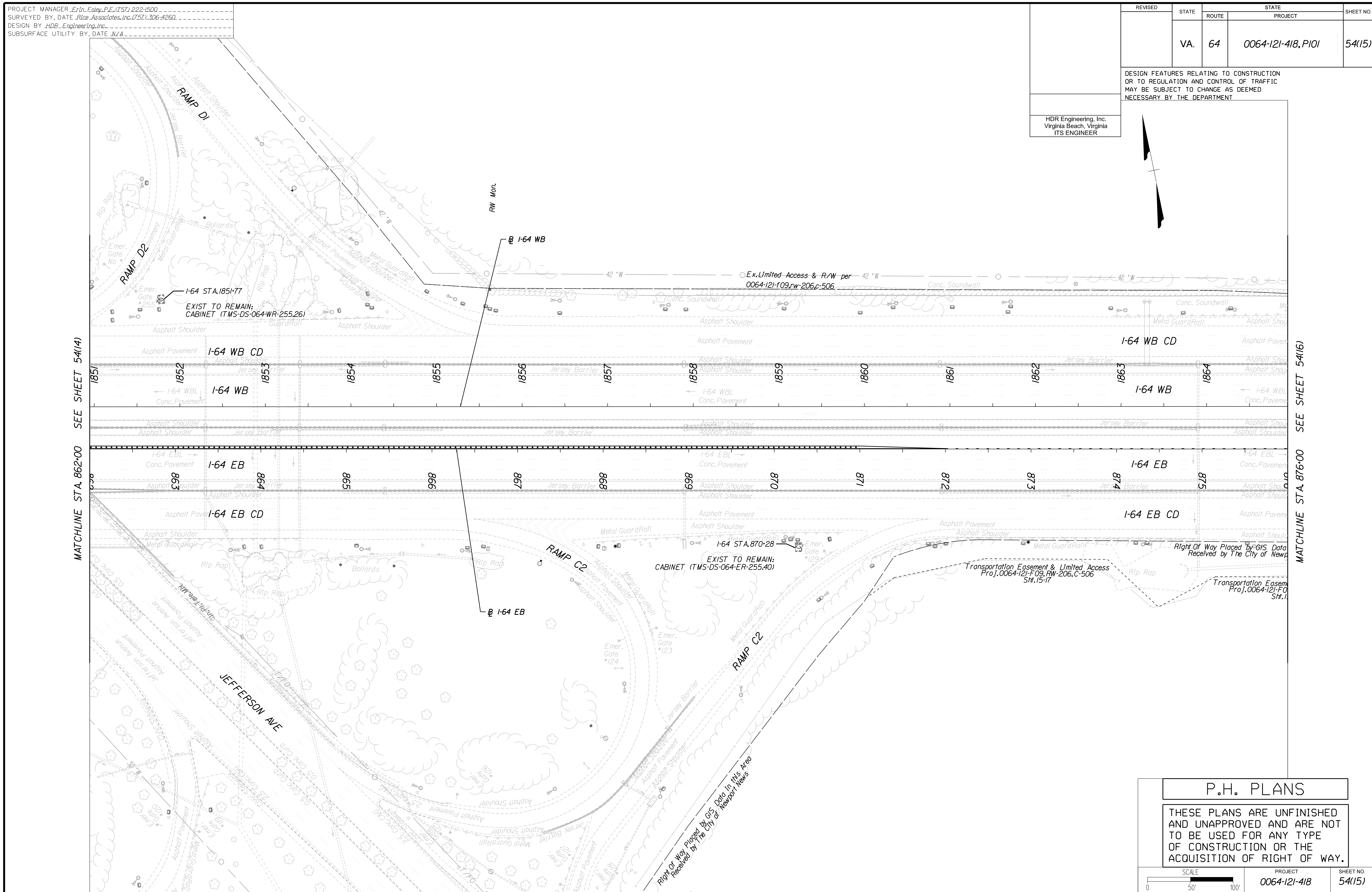
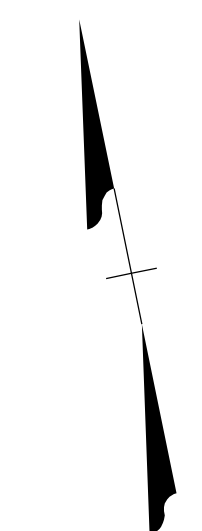
PROJECT 0064-121-418
SHEET NO. 54(14)

PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineer Inc.
SUBSURFACE UTILITY BY, DATE: N/A

REVISED	STATE		STATE PROJECT	SHEET NO.
	VA.	ROUTE 64		
	0064-121-418, P101		54(15)	

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
ITS ENGINEER



MATCHLINE STA. 862+00 SEE SHEET 54(14)

MATCHLINE STA. 876+00 SEE SHEET 54(16)

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

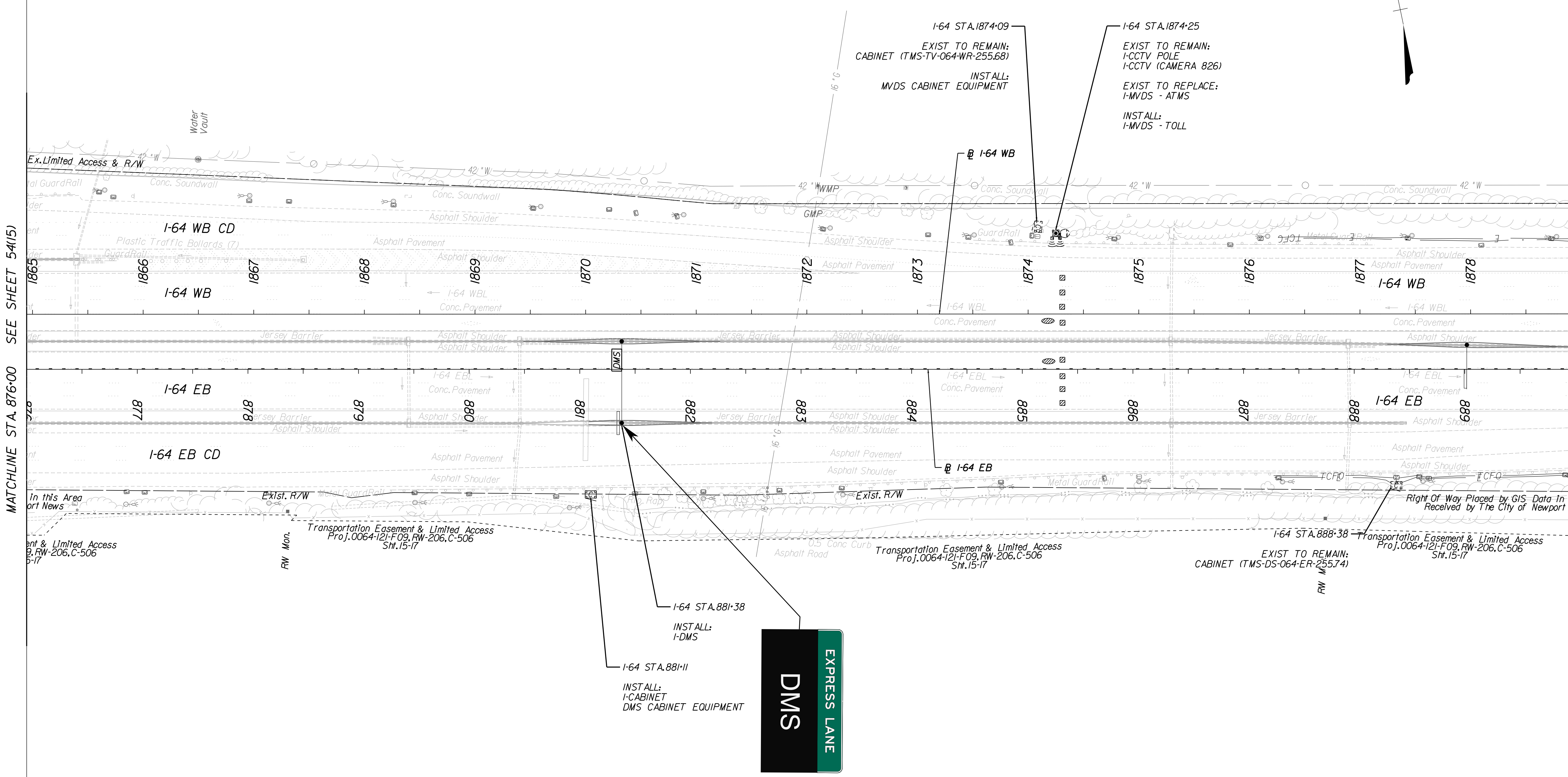
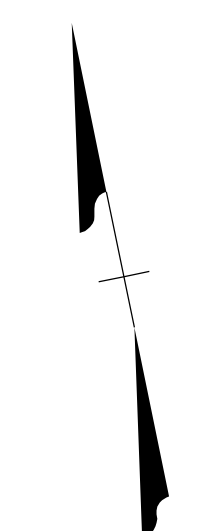
SCALE 0 50 100'	PROJECT 0064-121-418	SHEET NO. 54(15)
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PROJECT MANAGER: Erin Foley, P.E. (757) 222-1500
 SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
 DESIGN BY: HDR Engineering, Inc.
 SUBSURFACE UTILITY BY, DATE: MZA

REVISED	STATE		STATE		SHEET NO.
	VA.	ROUTE	PROJECT		
	VA.	64	0064-121-418, P101		54(16)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
ITS ENGINEER



MATCHLINE STA. 876+00 SEE SHEET 54(15)

MATCHLINE STA. 890+00 SEE SHEET 54(17)



P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

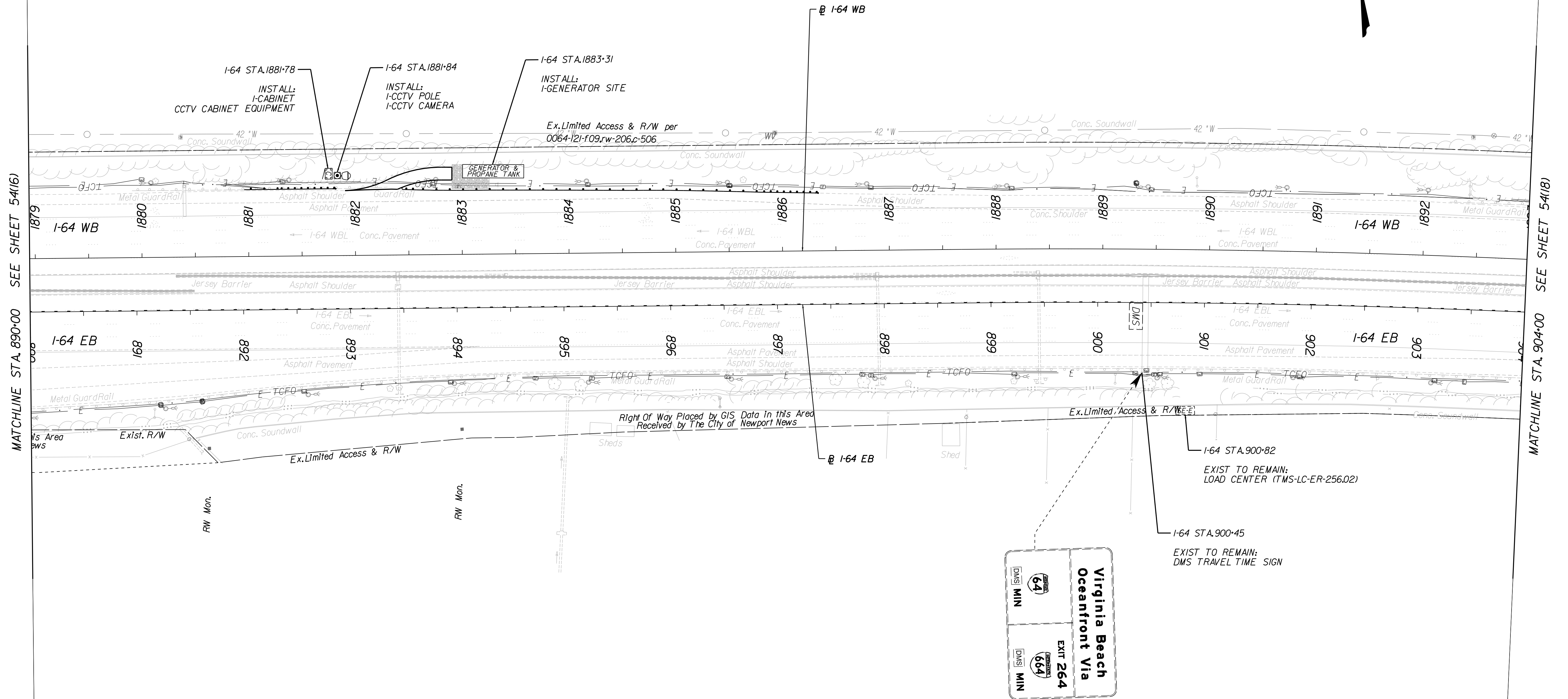
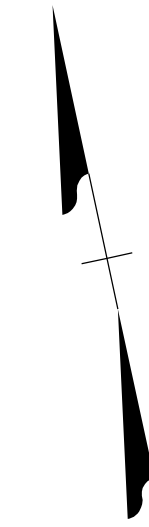
SCALE 0 50' 100'	PROJECT 0064-121-418	SHEET NO. 54(16)
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PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
 SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
 DESIGN BY: HDR, Engineer/Proj. Inc.
 SUBSURFACE UTILITY BY, DATE: N/A

REVISED	STATE		PROJECT	SHEET NO.
	VA.	ROUTE		
	VA.	64	0064-121-418, P101	54(17)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
ITS ENGINEER



P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

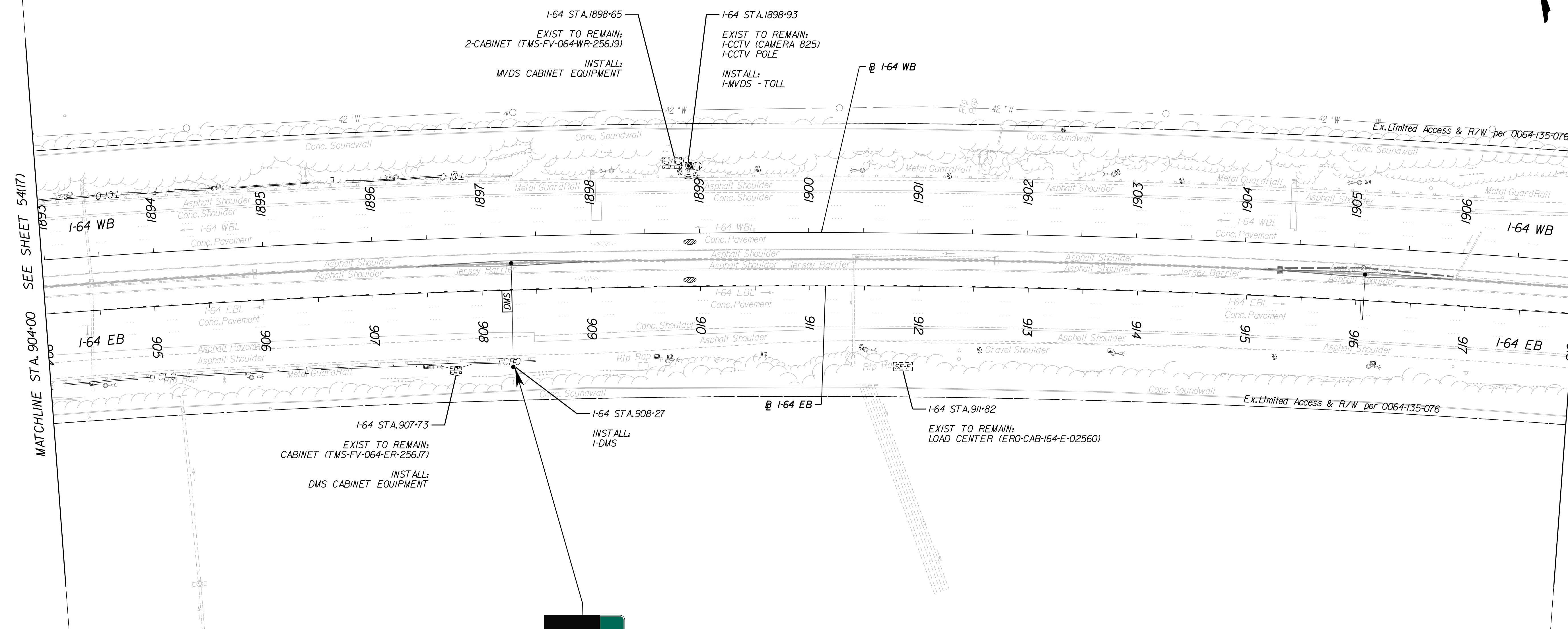
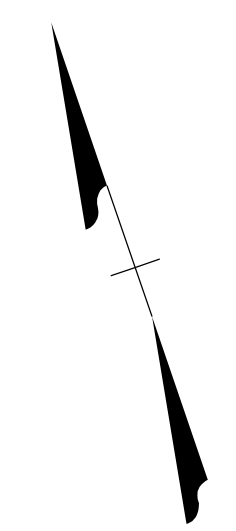
SCALE 0 50 100'	PROJECT 0064-121-418	SHEET NO. 54(17)
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PROJECT MANAGER: *Erin Foley, P.E. (757) 222-1500*
 SURVEYED BY, DATE: *Rico Associates, Inc. (757) 306-4260*
 DESIGN BY: *HDR Engineering, Inc.*
 SUBSURFACE UTILITY BY, DATE: *N/A*

REVISED	STATE		PROJECT	SHEET NO.
	VA.	ROUTE		
	64	0064-121-418, P101	54(18)	

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
ITS ENGINEER



A-DMS
EXPRESS LANE

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

SCALE: 0 50' 100'

PROJECT: 0064-121-418

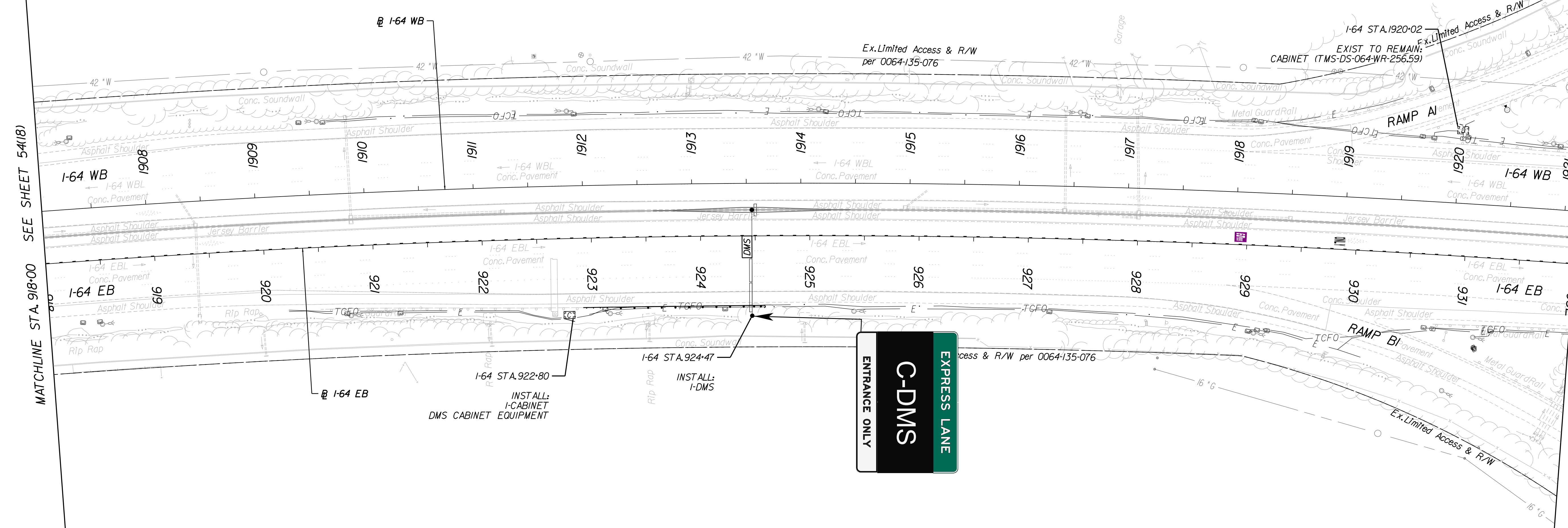
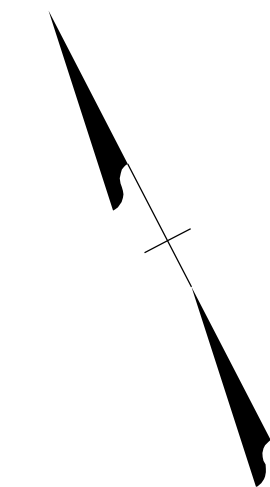
SHEET NO.: 54(18)

PROJECT MANAGER: *Erin Ealey, P.E.* (757) 222-1500
 SURVEYED BY, DATE: *Rico Associates, Inc.* (757) 306-4260
 DESIGN BY: *HDR Engineering, Inc.*
 SUBSURFACE UTILITY BY, DATE: *MZA*

REVISED	STATE	STATE		SHEET NO.
	ROUTE	PROJECT		
	VA.	64	0064-121-418, P101	54(19)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
ITS ENGINEER



MATCHLINE STA. 918+00 SEE SHEET 54(18)

MATCHLINE STA. 932+00 SEE SHEET 54(20)

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

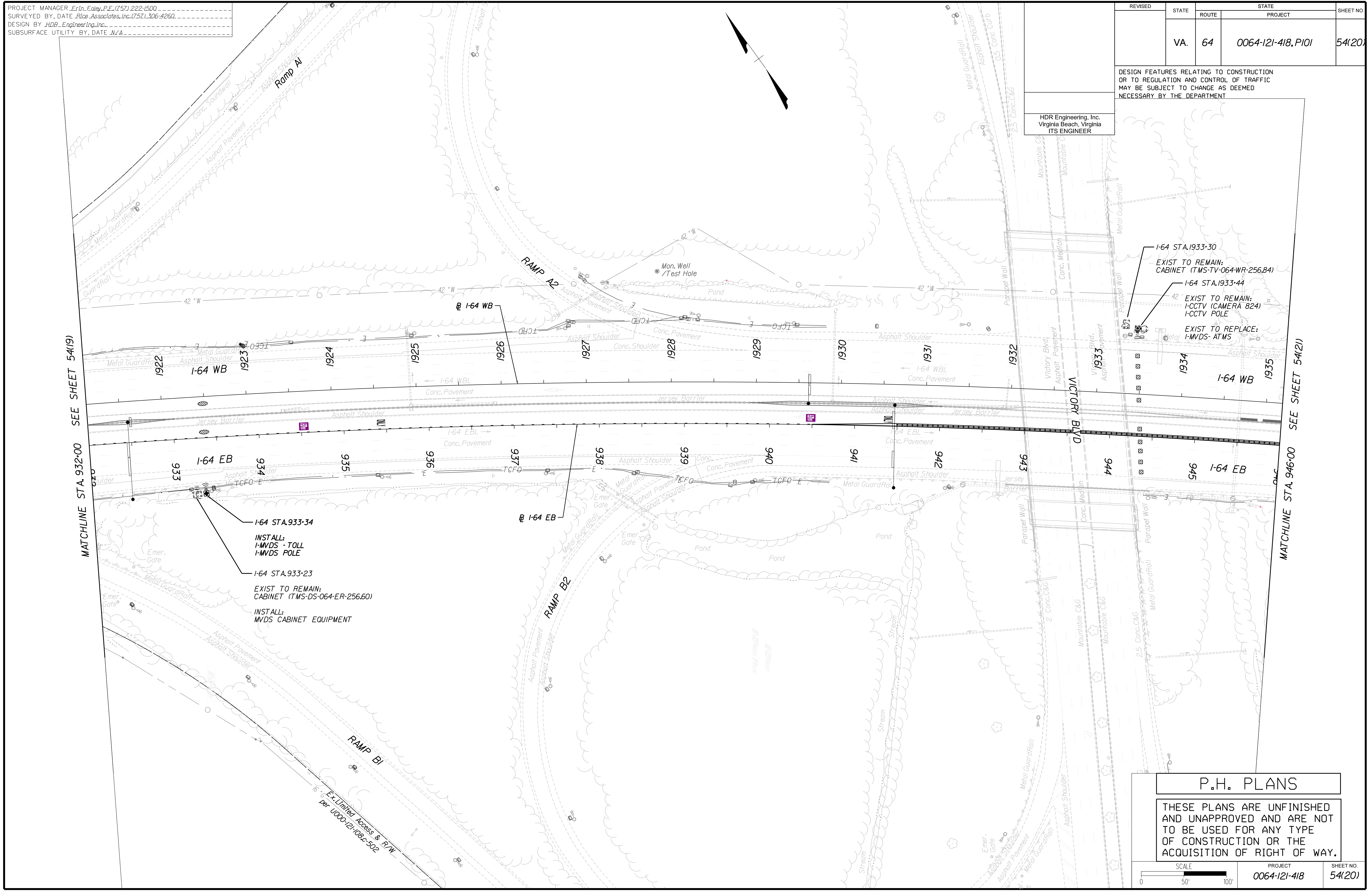
SCALE 0 50 100'	PROJECT 0064-121-418	SHEET NO. 54(19)
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PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDR Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: MZA

REVISED	STATE		SHEET NO.
	ROUTE	PROJECT	
	VA.	0064-121-418, P101	54(20)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
ITS ENGINEER



MATCHLINE STA. 932+00 SEE SHEET 54(19)

MATCHLINE STA. 946+00 SEE SHEET 54(21)

I-64 STA. 933+34
INSTALL:
I-MVDS - TOLL
I-MVDS POLE

I-64 STA. 933+23
EXIST TO REMAIN:
CABINET (TMS-DS-064-ER-256.60)
INSTALL:
MVDS CABINET EQUIPMENT

I-64 STA. 1933+30
EXIST TO REMAIN:
CABINET (TMS-TV-064-WR-256.84)

I-64 STA. 1933+44
EXIST TO REMAIN:
I-CCTV (CAMERA 824)
I-CCTV POLE

EXIST TO REPLACE:
I-MVDS- ATMS

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

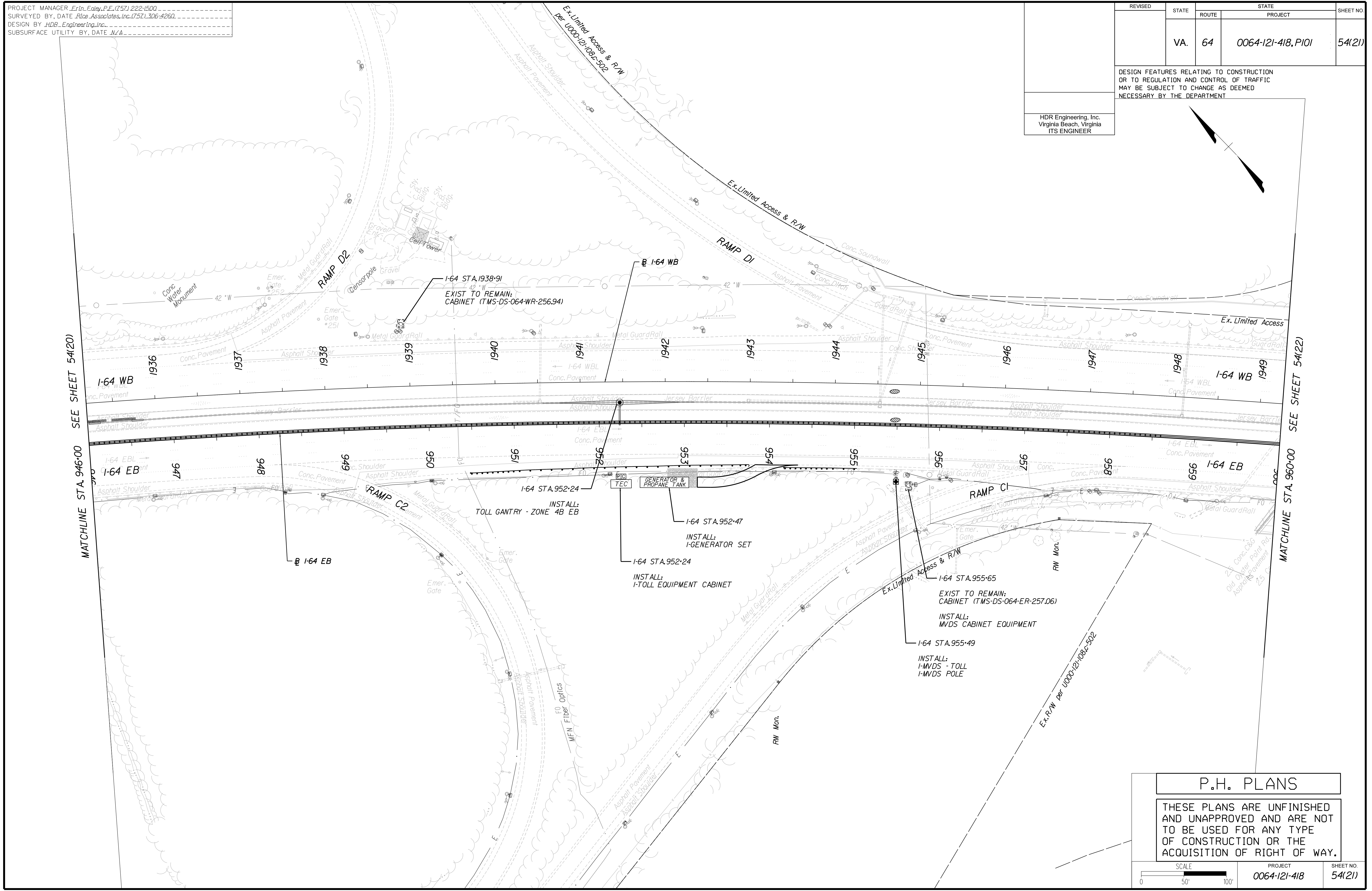
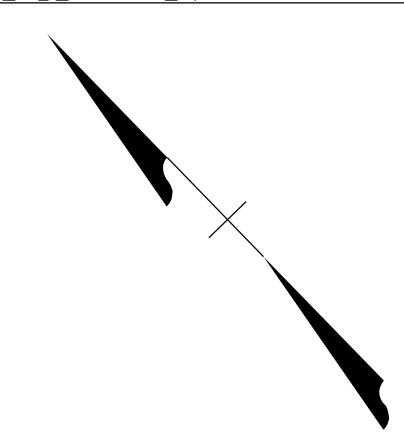
SCALE 0 50 100'	PROJECT 0064-121-418	SHEET NO. 54(20)
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PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDR Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: MZA

REVISED	STATE		SHEET NO.
	ROUTE	PROJECT	
	VA.	0064-121-418, P101	54(21)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
ITS ENGINEER



MATCHLINE STA. 946+00 SEE SHEET 54(20)

MATCHLINE STA. 960+00 SEE SHEET 54(22)

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

SCALE 0 50 100'	PROJECT 0064-121-418	SHEET NO. 54(21)
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PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineer/Inc.
SUBSURFACE UTILITY BY, DATE: MZA

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	54(22)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
ITS ENGINEER



I-64 STA. 1962+30
INSTALL:
I-DMS

I-64 STA. 1953+00
EXIST TO REMAIN:
LOAD CENTER (TMS-LC-064-WR-257.22)

I-64 STA. 1961+57
EXIST TO REMAIN:
CABINET (TMS-DS-064-WR-257.38)

I-64 STA. 961+38
EXIST TO REMAIN:
LOAD CENTER (TMS-LC-064-ER-257.18)

I-64 STA. 970+14
EXIST TO REMAIN:
TRAVEL TIME DMS

I-64 STA. 970+23
EXIST TO REMAIN:
CABINET (ERO-CAB-164-E-0257.0)

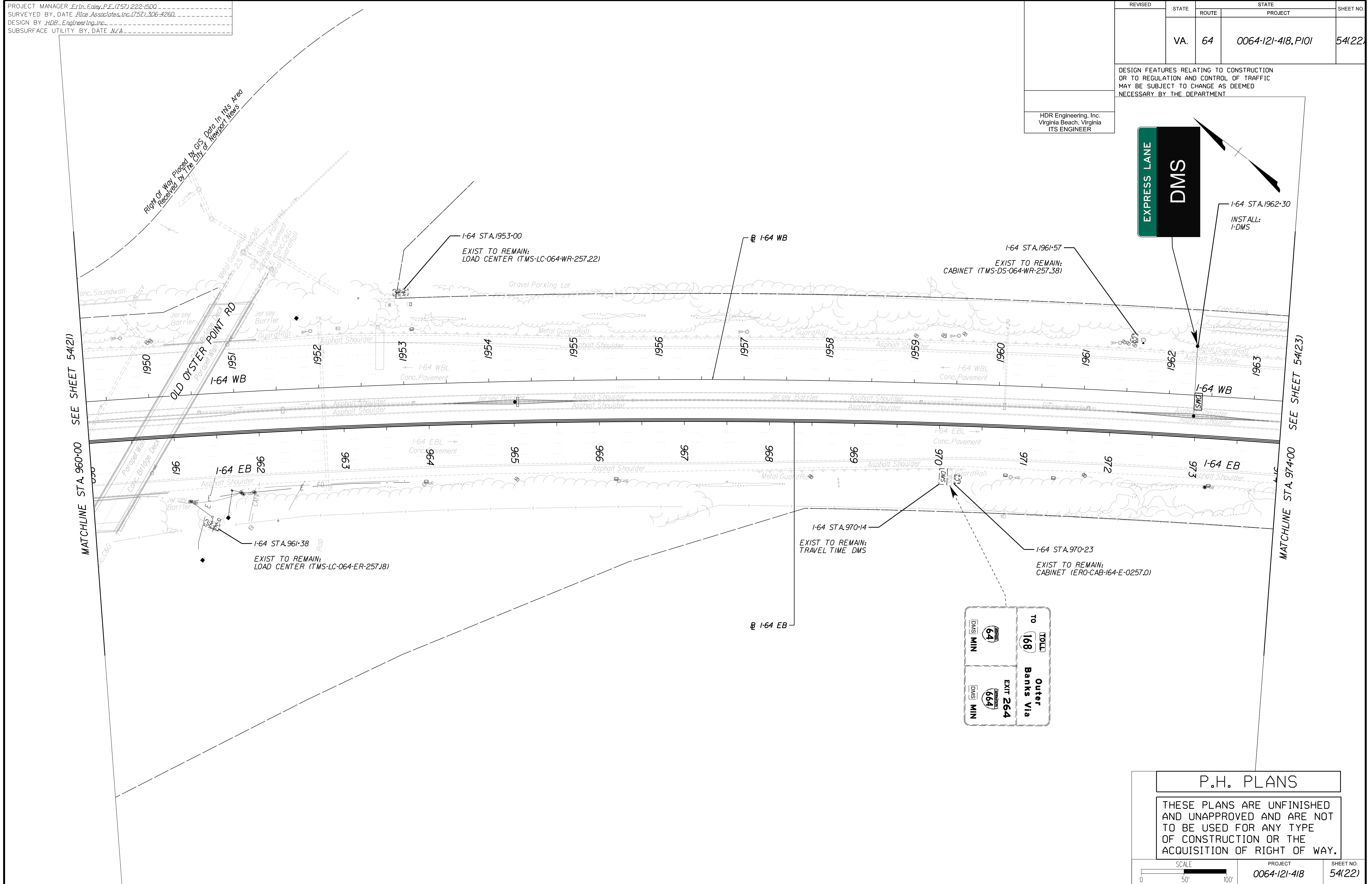
DMS	MIN	64	TOLL	to	168	Outer	Banks Via	EXIT 264	DMS	MIN	64

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.



PROJECT: 0064-121-418
SHEET NO.: 54(22)

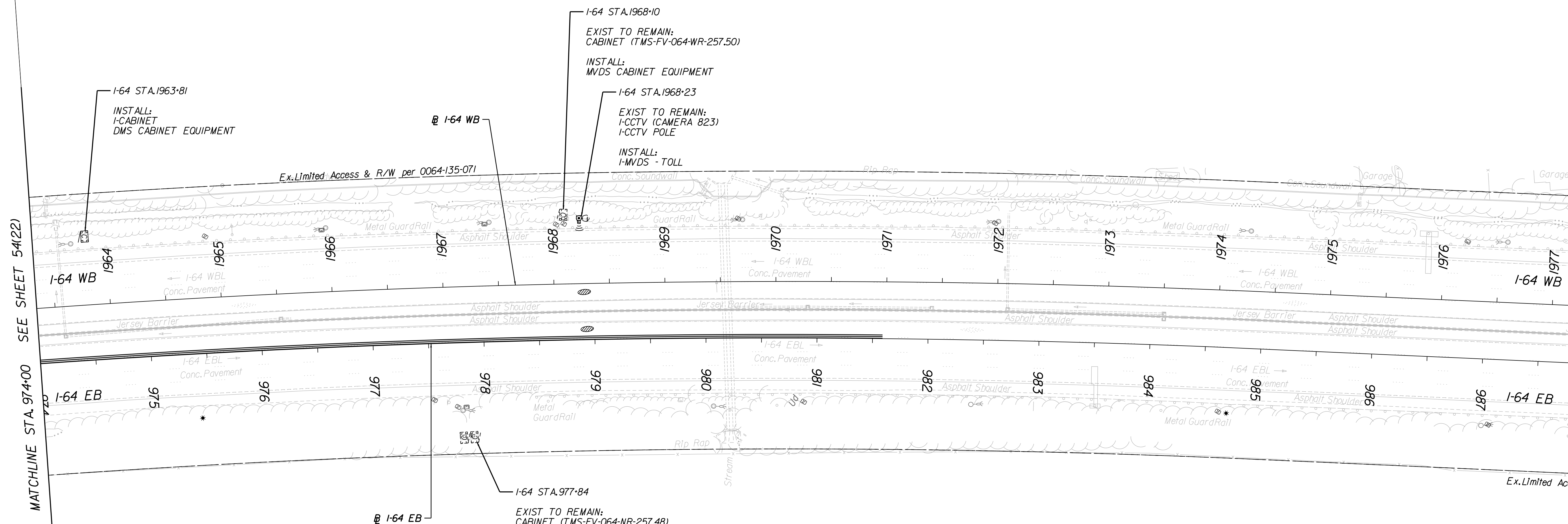
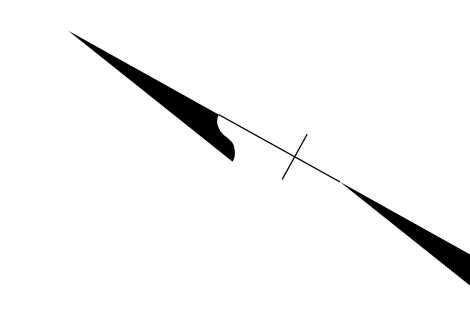


PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
 SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
 DESIGN BY: HDR, Engineer Inc.
 SUBSURFACE UTILITY BY, DATE: MZA

REVISED	STATE		PROJECT	SHEET NO.
	STATE	ROUTE		
	VA.	64	0064-121-418, P101	54(23)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
ITS ENGINEER



P.H. PLANS

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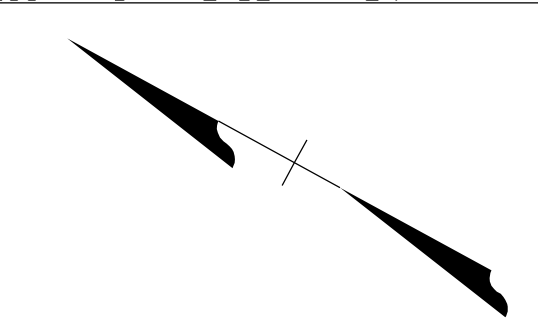
SCALE 0 50 100'	PROJECT 0064-121-418	SHEET NO. 54(23)
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PROJECT MANAGER: Erin Eoley, P.E. (757) 222-1500
 SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
 DESIGN BY: HDR, Engineering, Inc.
 SUBSURFACE UTILITY BY, DATE: MZA

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	54(24)

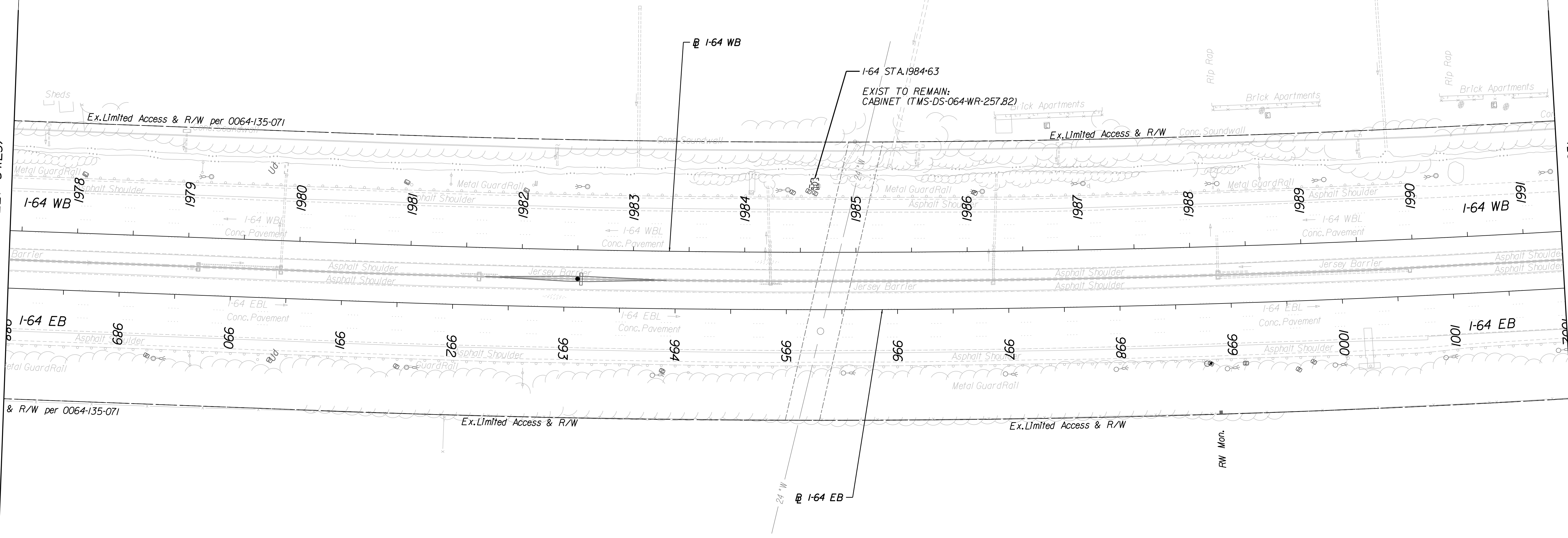
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
ITS ENGINEER



MATCHLINE STA. 988+00 SEE SHEET 54(23)

MATCHLINE STA. 1002+00 SEE SHEET 54(25)



P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

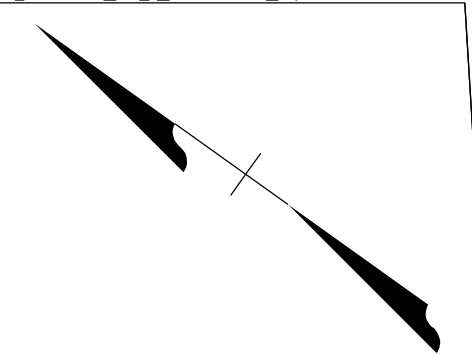
SCALE 0 50' 100'	PROJECT 0064-121-418	SHEET NO. 54(24)
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PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
 SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
 DESIGN BY: HDR, Engineering, Inc.
 SUBSURFACE UTILITY BY, DATE: N/A

REVISED	STATE		PROJECT	SHEET NO.
	VA.	ROUTE 64		
	0064-121-418, P101		54(25)	

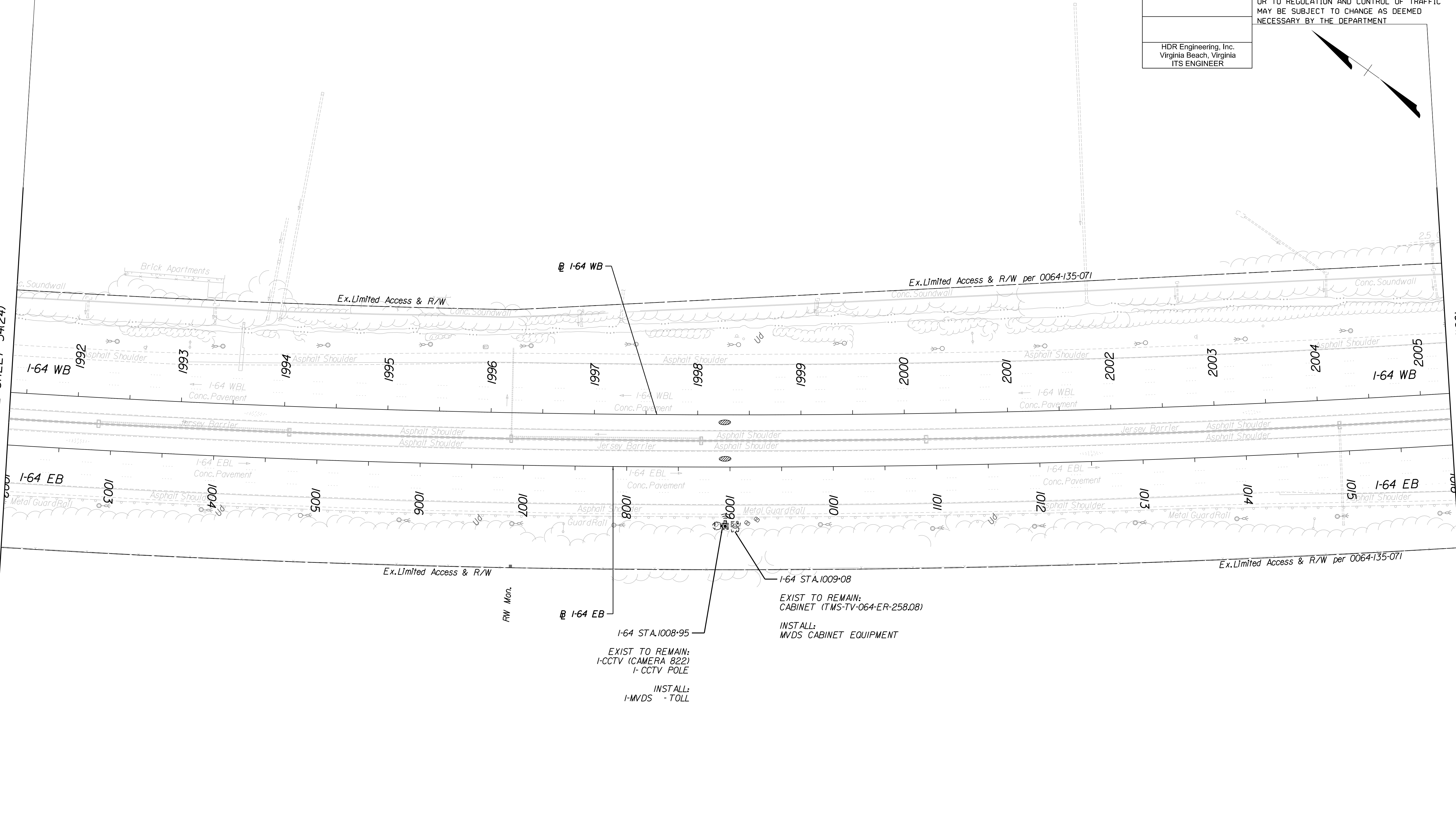
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
ITS ENGINEER



MATCHLINE STA. 1002+00 SEE SHEET 54(24)

MATCHLINE STA. 1016+00 SEE SHEET 54(26)



I-64 STA. 1009+08
 EXIST TO REMAIN:
 CABINET (TMS-TV-064-ER-258.08)
 INSTALL:
 MVDs CABINET EQUIPMENT

I-64 STA. 1008+95
 EXIST TO REMAIN:
 I-CCTV (CAMERA 822)
 I-CCTV POLE
 INSTALL:
 I-MVDs - TOLL

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

SCALE

PROJECT

0064-121-418

SHEET NO.

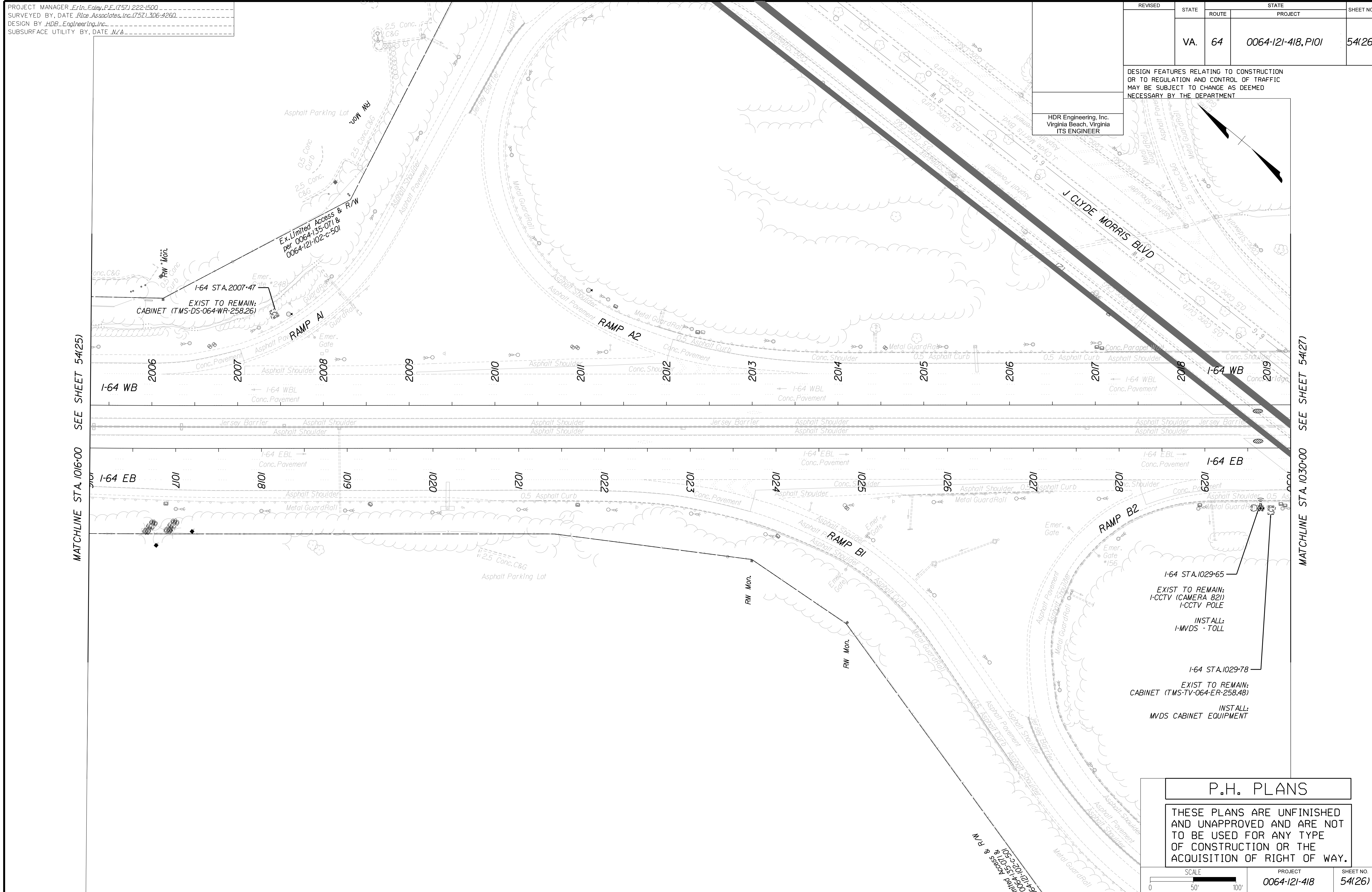
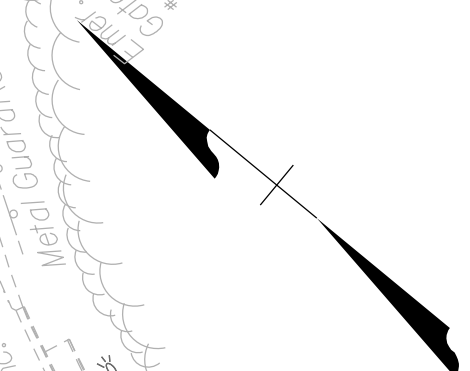
54(25)

PROJECT MANAGER: Erin Eoley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: MZA

REVISED	STATE	STATE		SHEET NO.
	ROUTE	PROJECT		
	VA.	64	0064-121-418, P101	54(26)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
ITS ENGINEER



MATCHLINE STA. 1016+00 SEE SHEET 54(25)

MATCHLINE STA. 1030+00 SEE SHEET 54(27)

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

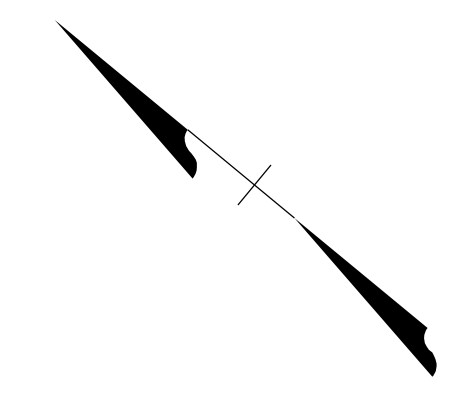
SCALE 0 50 100'	PROJECT 0064-121-418	SHEET NO. 54(26)
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PROJECT MANAGER: Erin Eoley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: MZA

REVISED	STATE		SHEET NO.
	ROUTE	PROJECT	
	VA.	0064-121-418, P101	54(27)

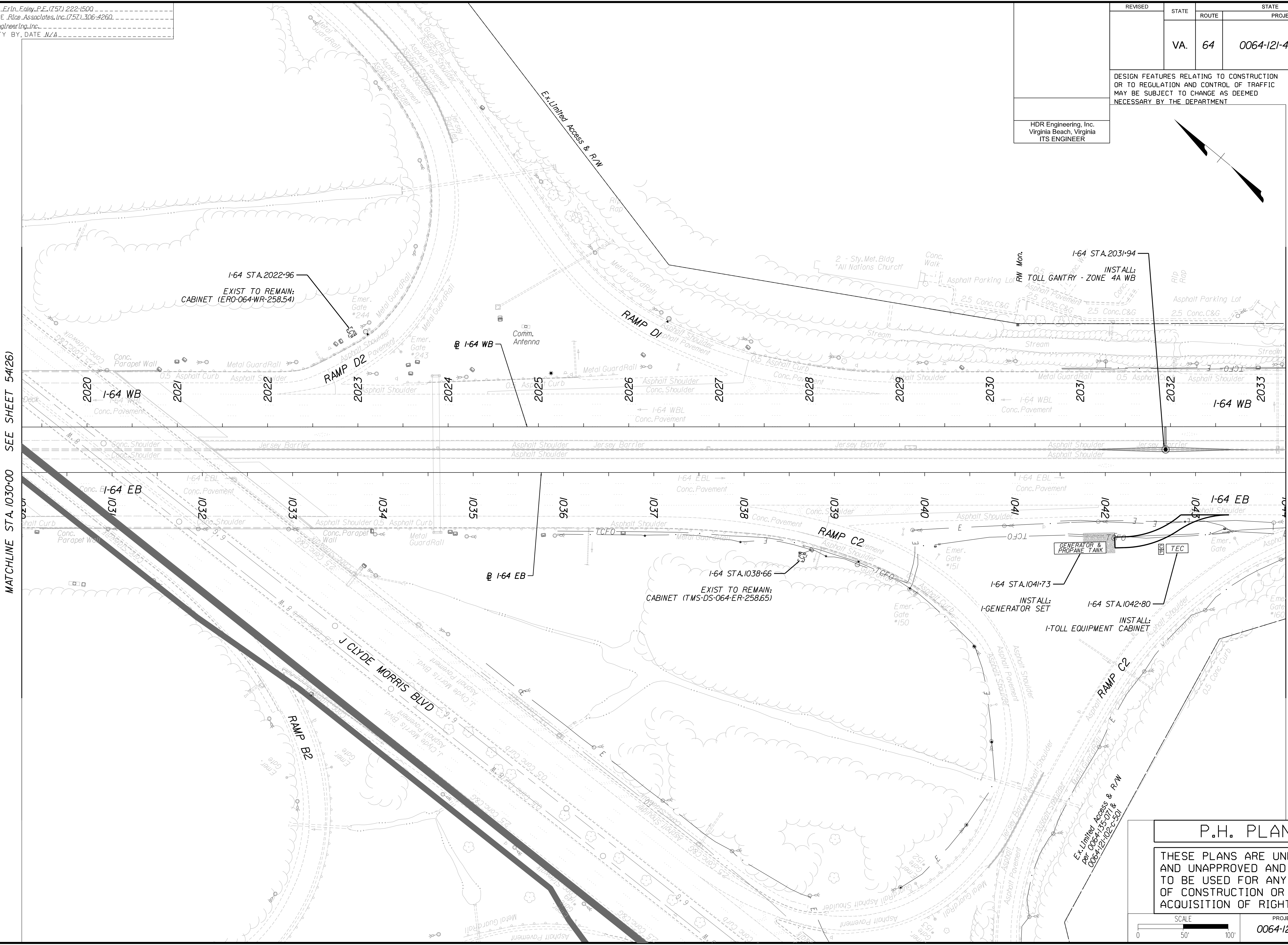
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
ITS ENGINEER



MATCHLINE STA. 1030+00 SEE SHEET 54(26)

MATCHLINE STA. 1044+00 SEE SHEET 54(28)



I-64 STA. 2022+96
EXIST TO REMAIN:
CABINET (ERO-064-WR-258.54)

I-64 STA. 1038+66
EXIST TO REMAIN:
CABINET (TMS-DS-064-ER-258.65)

I-64 STA. 1041+73
INSTALL:
I-GENERATOR SET

I-64 STA. 1042+80
INSTALL:
I-TOLL EQUIPMENT CABINET

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

SCALE 0 50 100'	PROJECT 0064-121-418	SHEET NO. 4(27)
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PROJECT MANAGER: Erin Eoley, P.E. (757) 222-1500
 SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
 DESIGN BY: HDR, Engineer Inc.
 SUBSURFACE UTILITY BY, DATE: MZA

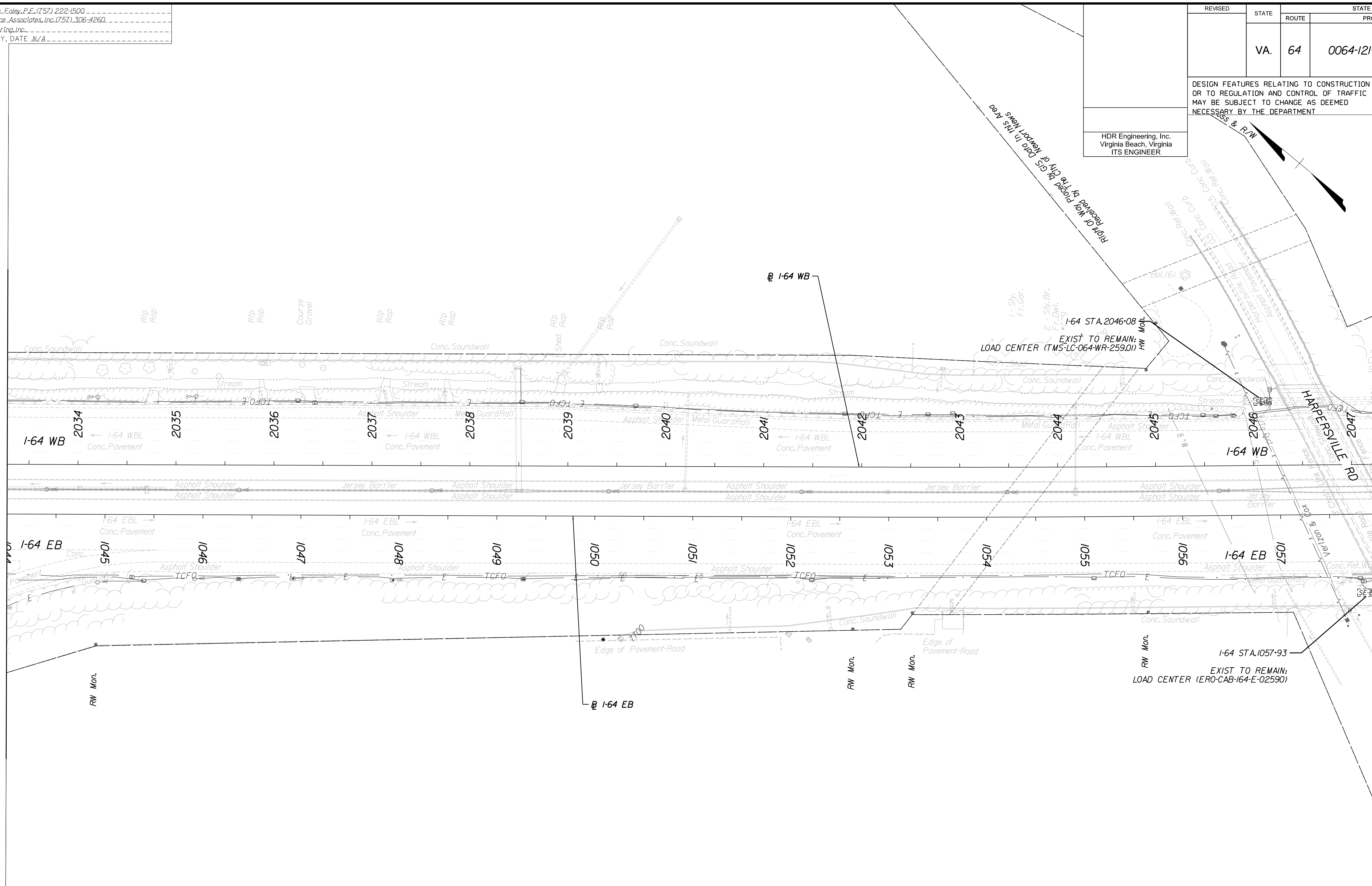
REVISED	STATE		SHEET NO.
	ROUTE	PROJECT	
	VA.	64	0064-121-418, P101

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
ITS ENGINEER

MATCHLINE STA. 1044+00 SEE SHEET 54(27)

MATCHLINE STA. 1058+00 SEE SHEET 54(29)



P.H. PLANS

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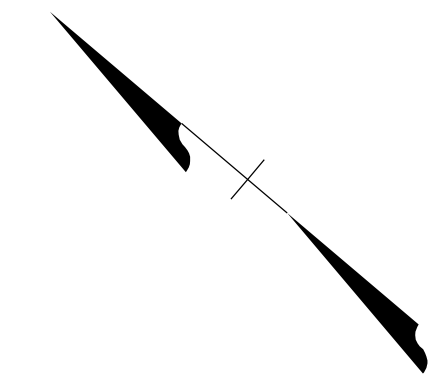
SCALE 0 50 100'	PROJECT 0064-121-418	SHEET NO. 54(28)
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PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineer/Proj. Mgr.
SUBSURFACE UTILITY BY, DATE: MZA

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	54(29)

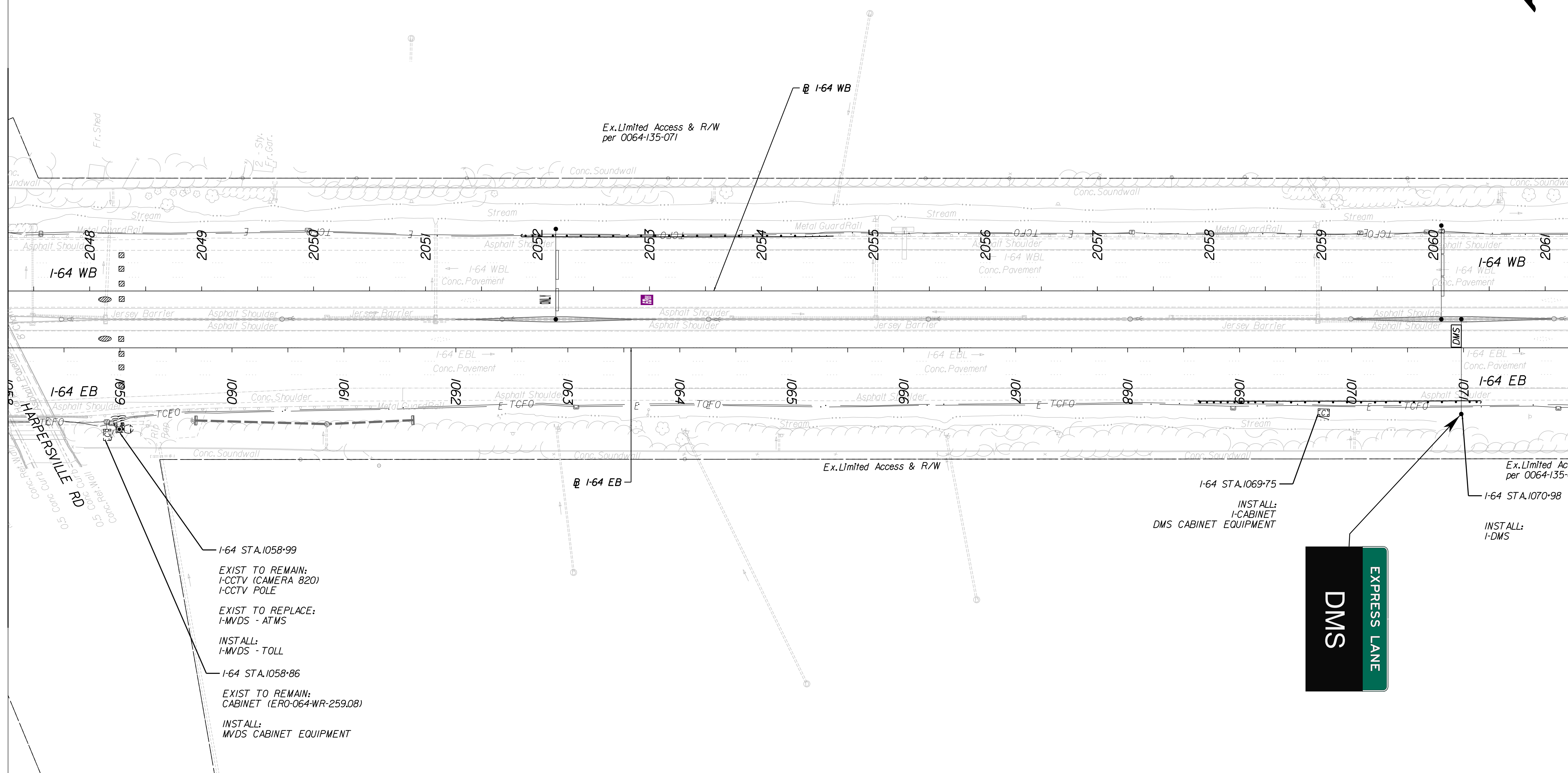
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
ITS ENGINEER



MATCHLINE STA. 1058+00 SEE SHEET 54(28)

MATCHLINE STA. 1072+00 SEE SHEET 54(30)



I-64 STA. 1058+99
EXIST TO REMAIN:
I-CCTV (CAMERA 820)
I-CCTV POLE
EXIST TO REPLACE:
I-MVDS - ATMS
INSTALL:
I-MVDS - TOLL
I-64 STA. 1058+86
EXIST TO REMAIN:
CABINET (ERO-064-WR-259.08)
INSTALL:
MVDS CABINET EQUIPMENT

I-64 STA. 1069+75
INSTALL:
I-CABINET
DMS CABINET EQUIPMENT

I-64 STA. 1070+98
INSTALL:
I-DMS



P.H. PLANS

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SCALE 0 50 100'	PROJECT 0064-121-418	SHEET NO. 54(29)
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PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineer/Insp. Inc.
SUBSURFACE UTILITY BY, DATE: N/A

REVISED	STATE		PROJECT	SHEET NO.
	STATE	ROUTE		
	VA.	64	0064-121-418, P101	54(30)

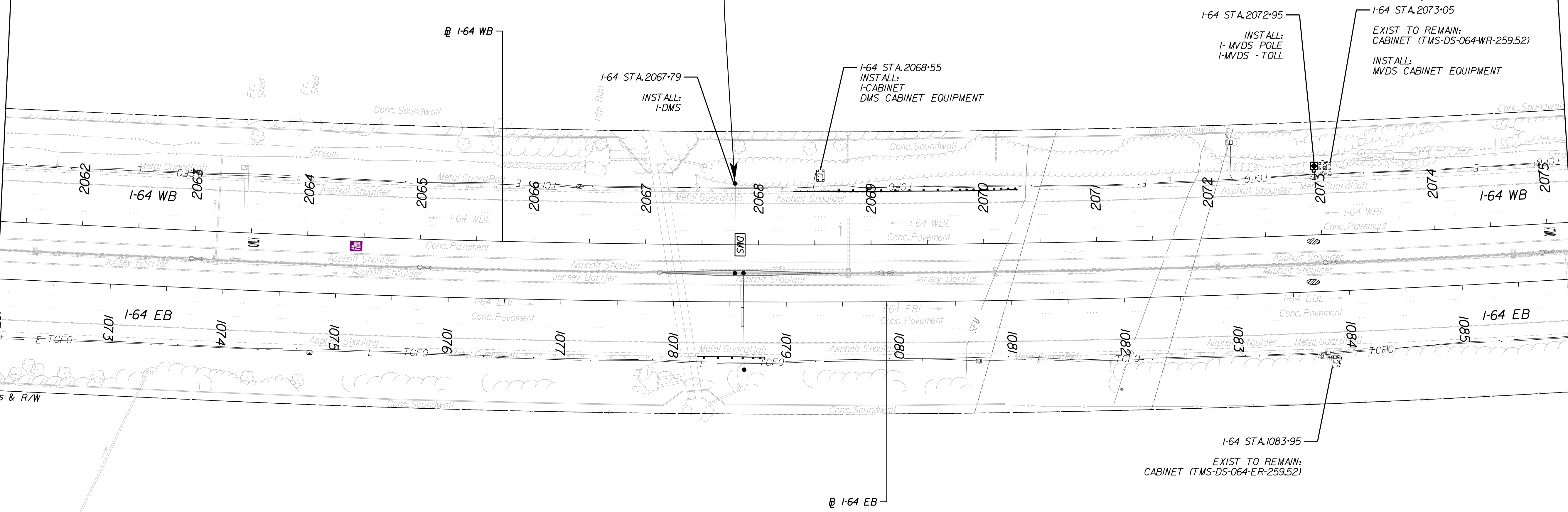
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
ITS ENGINEER

EXPRESS LANE
C-DMS

MATCHLINE STA. 1072+00 SEE SHEET 54(29)

MATCHLINE STA. 1086+00 SEE SHEET 54(31)



P.H. PLANS
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

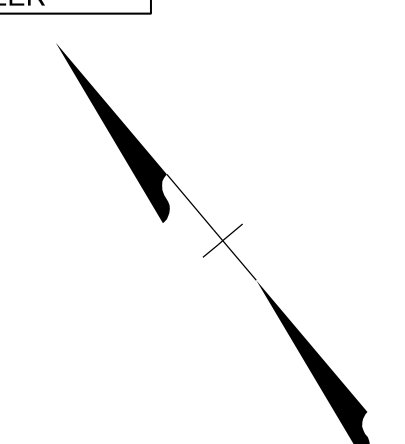
SCALE 0 50' 100'	PROJECT 0064-121-418	SHEET NO. 54(30)
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PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
 SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
 DESIGN BY: HDR, Engineering, Inc.
 SUBSURFACE UTILITY BY, DATE: N/A

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	54(31)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
ITS ENGINEER

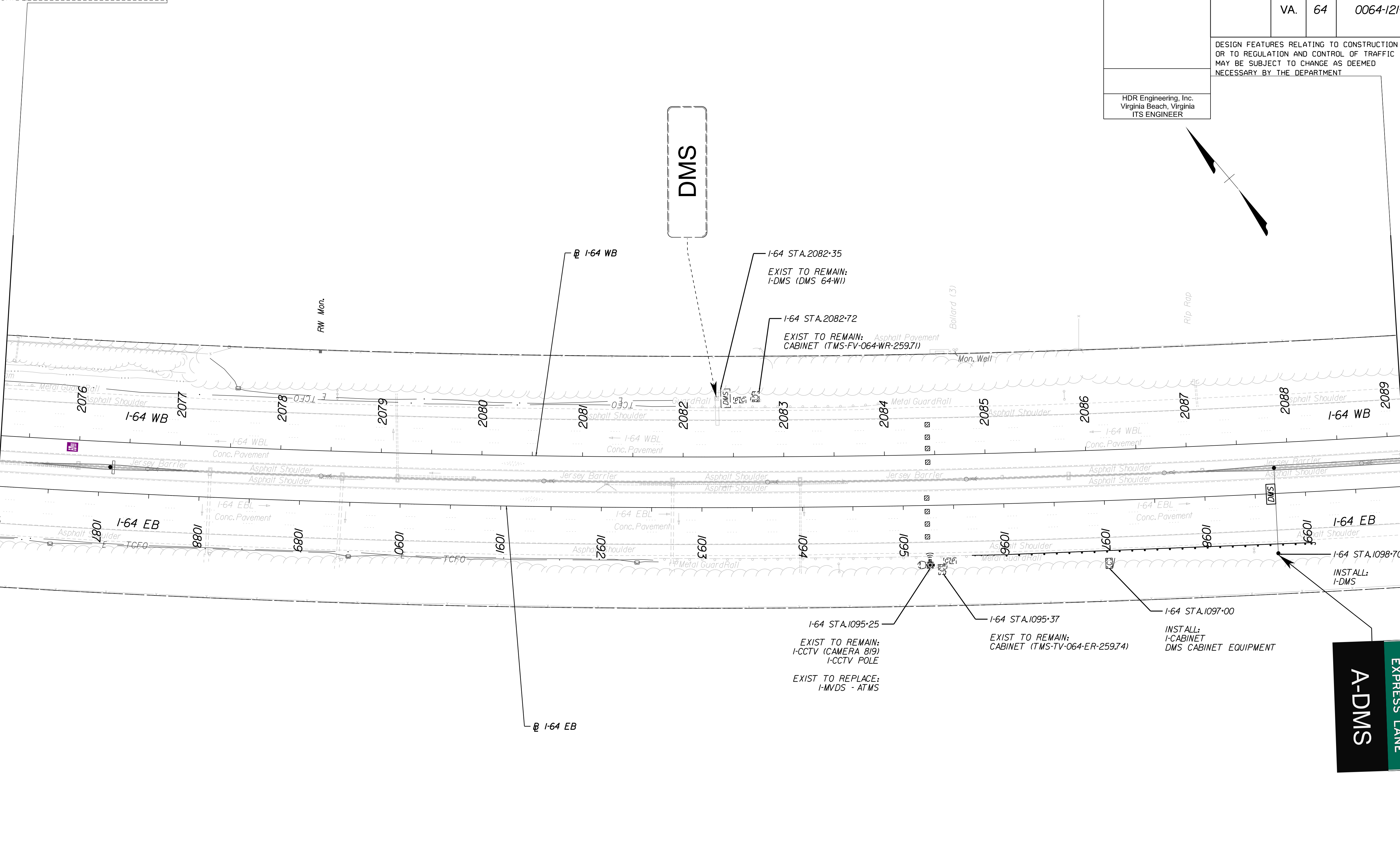


DMS

A-DMS
EXPRESS LANE

MATCHLINE STA. 1086+00 SEE SHEET 54(30)

MATCHLINE STA. 1100+00 SEE SHEET 54(32)



P.H. PLANS

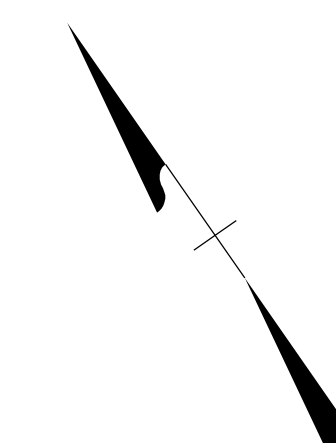
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROJECT MANAGER: Erin Eoley, P.E. (757) 222-1500
 SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
 DESIGN BY: HDR, Engineer Inc.
 SUBSURFACE UTILITY BY, DATE: MZA

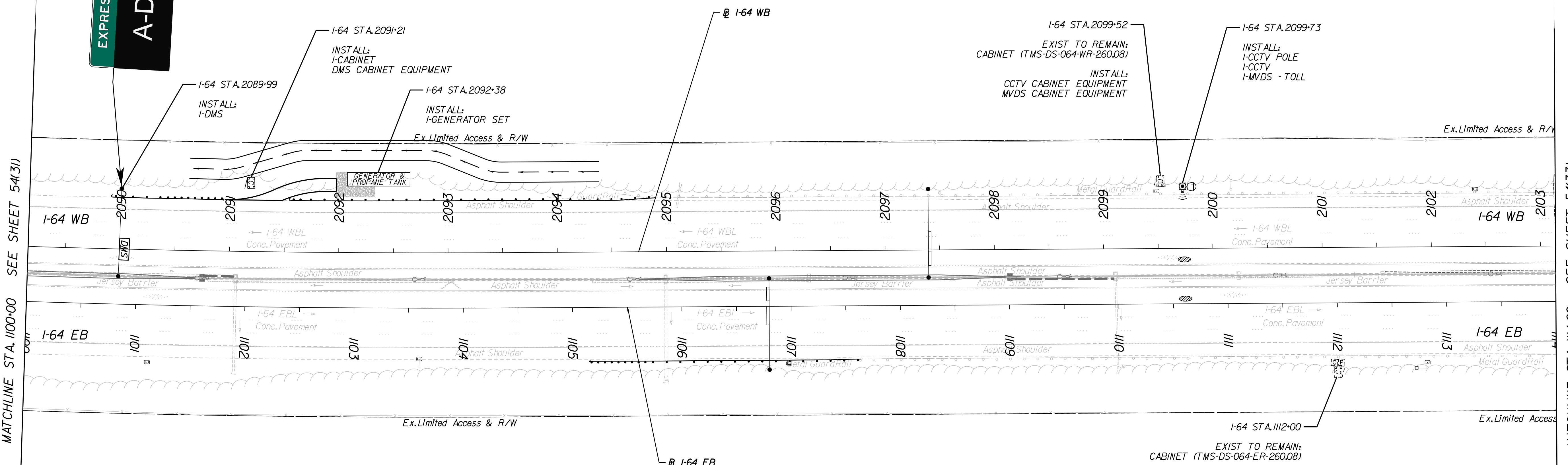
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	54(32)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
ITS ENGINEER



EXPRESS LANE
A-DMS



MATCHLINE STA. 1100+00 SEE SHEET 54(31)

MATCHLINE STA. 1114+00 SEE SHEET 54(33)

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

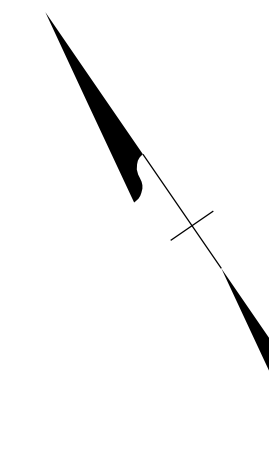
SCALE 0 50' 100'	PROJECT 0064-121-418	SHEET NO. 54(32)
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PROJECT MANAGER: Erin Eoley, P.E. (757) 222-1500
 SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
 DESIGN BY: HDR, Engineer Inc.
 SUBSURFACE UTILITY BY, DATE: MZA

REVISED	STATE	STATE		SHEET NO.
	ROUTE	PROJECT		
	VA.	64	0064-121-418, P101	54(33)

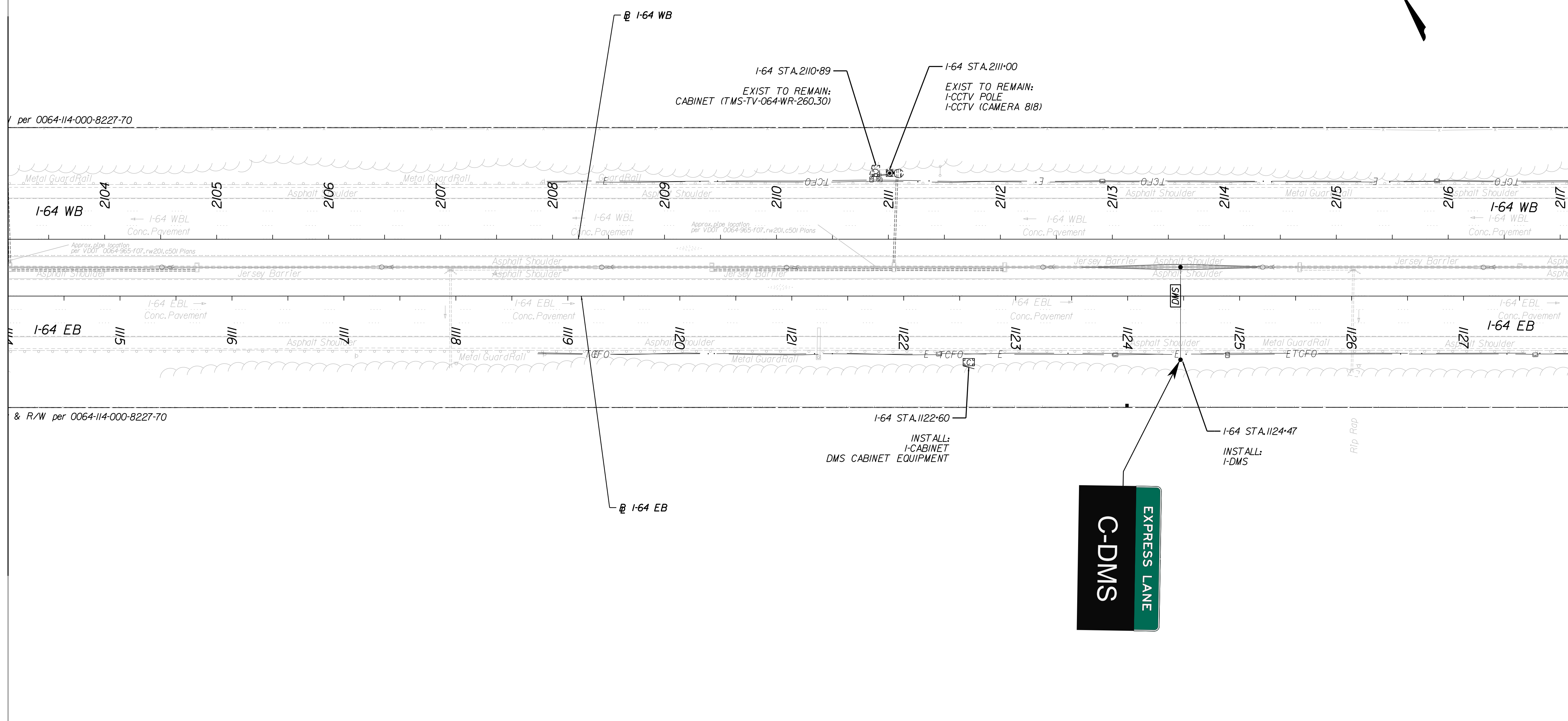
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
ITS ENGINEER



MATCHLINE STA. 1114+00 SEE SHEET 54(32)

MATCHLINE STA. 1128+00 SEE SHEET 54(34)



P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

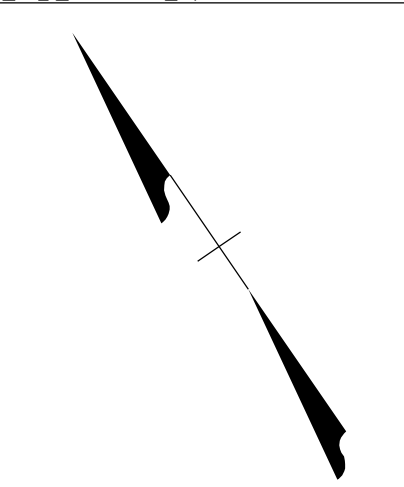
SCALE 0 50' 100'	PROJECT 0064-121-418	SHEET NO. 54(33)
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PROJECT MANAGER: Erin Eoley, P.E. (757) 222-1500
 SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
 DESIGN BY: HDR Engineering, Inc.
 SUBSURFACE UTILITY BY, DATE: MZA

REVISED	STATE	STATE		SHEET NO.
	ROUTE	PROJECT		
	VA.	64	0064-121-418, P101	54(34)

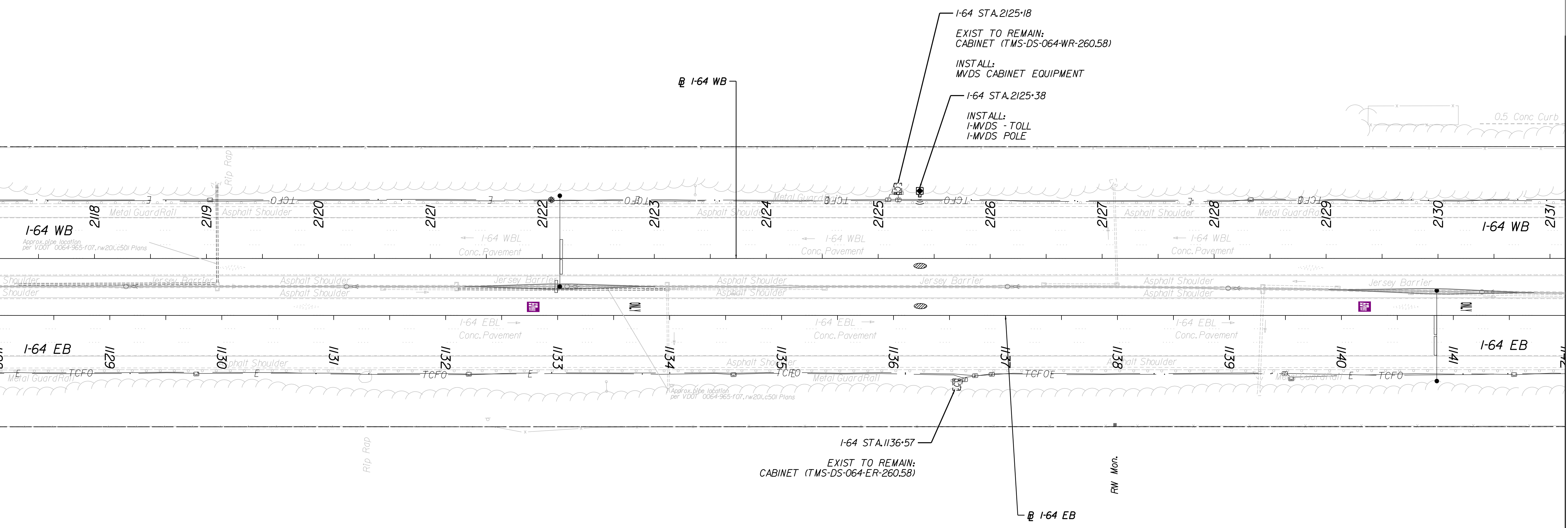
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
ITS ENGINEER



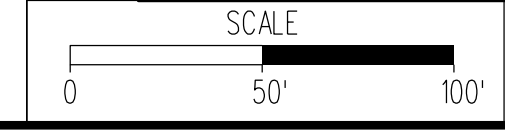
MATCHLINE STA. 1128+00 SEE SHEET 54(33)

MATCHLINE STA. 1142+00 SEE SHEET 54(35)



P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.



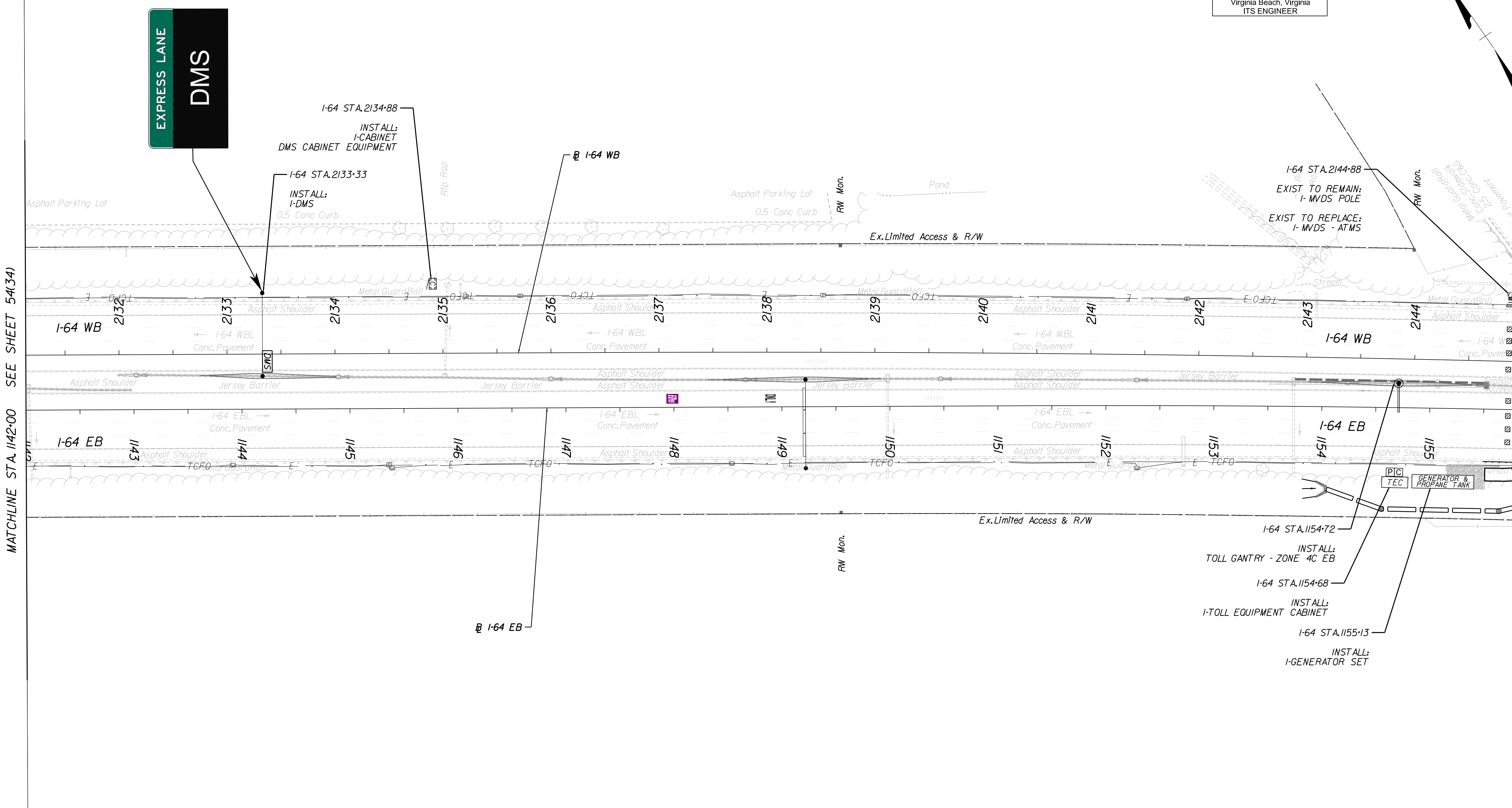
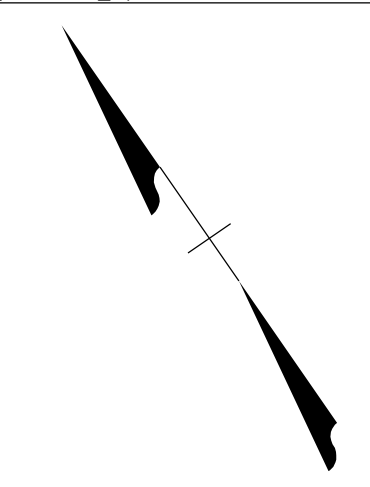
PROJECT: 0064-121-418
SHEET NO.: 54(34)

PROJECT MANAGER: Erin Eoley, P.E. (757) 222-1500
 SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
 DESIGN BY: HDR, Engineer Inc.
 SUBSURFACE UTILITY BY, DATE: MZA

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	54(35)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
ITS ENGINEER



MATCHLINE STA. 1142+00 SEE SHEET 54(34)

MATCHLINE STA. 1156+00 SEE SHEET 54(36)

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

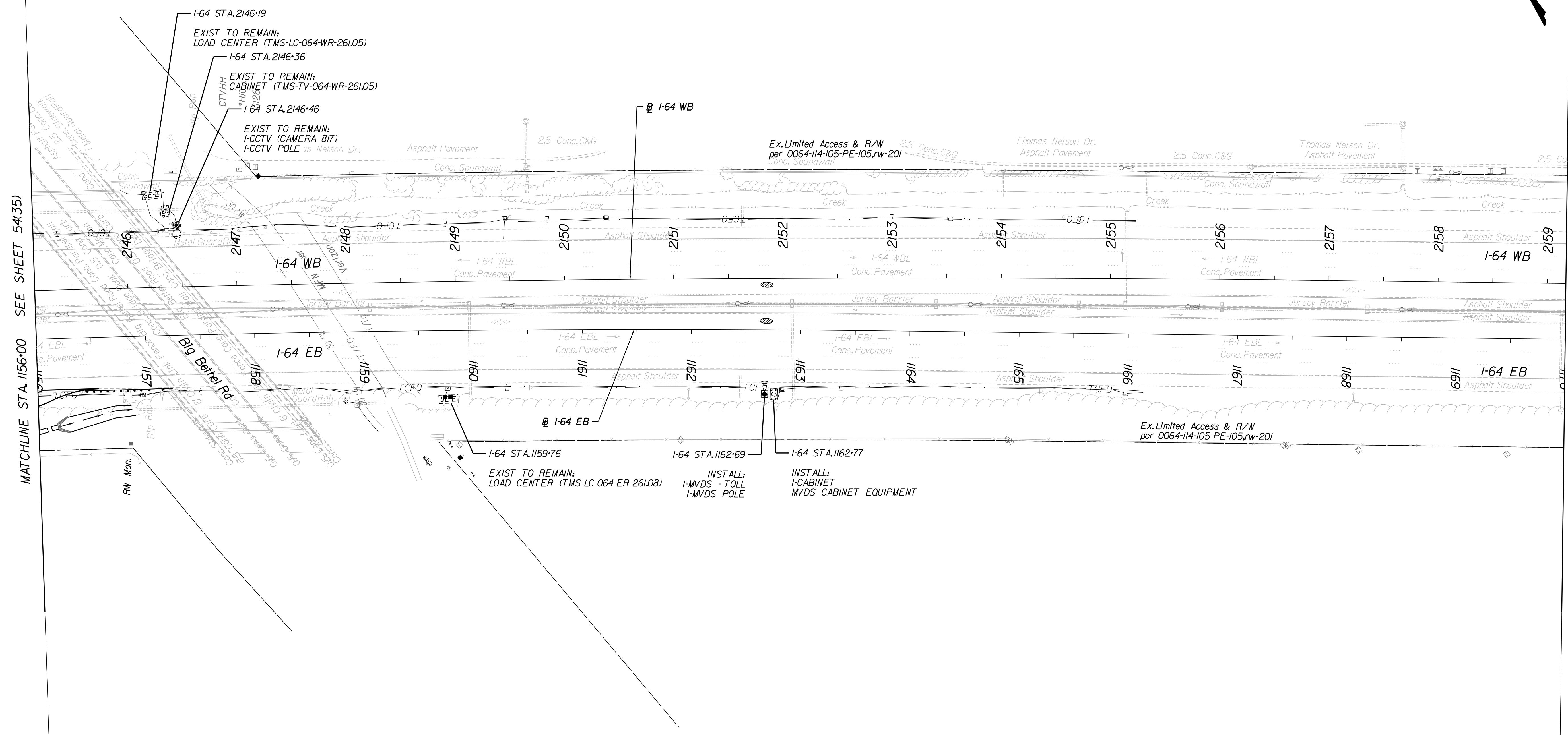
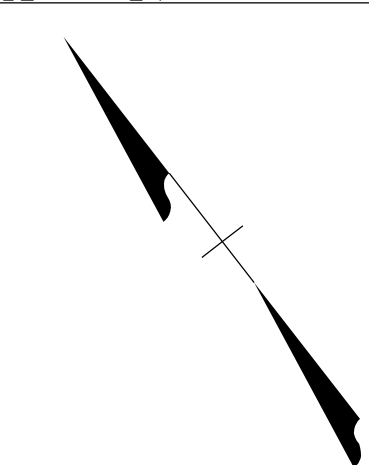
SCALE 0 50 100'	PROJECT 0064-121-418	SHEET NO. 54(35)
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PROJECT MANAGER: Erin Eoley, P.E. (757) 222-1500
 SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
 DESIGN BY: HDR, Engineer Inc.
 SUBSURFACE UTILITY BY, DATE: N/A

REVISED	STATE		PROJECT	SHEET NO.
	STATE	ROUTE		
	VA.	64	0064-121-418, P101	54(36)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
ITS ENGINEER



MATCHLINE STA. 1156+00 SEE SHEET 54(35)

MATCHLINE STA. 1170+00 SEE SHEET 54(37)

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

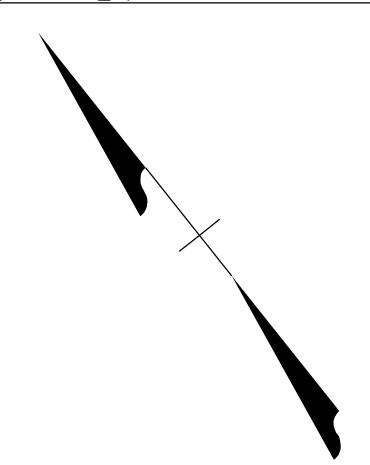
SCALE 0 50 100'	PROJECT 0064-121-418	SHEET NO. 54(36)
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PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
 SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
 DESIGN BY: HDR Engineering, Inc.
 SUBSURFACE UTILITY BY, DATE: MZA

REVISED	STATE		PROJECT	SHEET NO.
	VA.	ROUTE 64		
	0064-121-418, P101		54(37)	

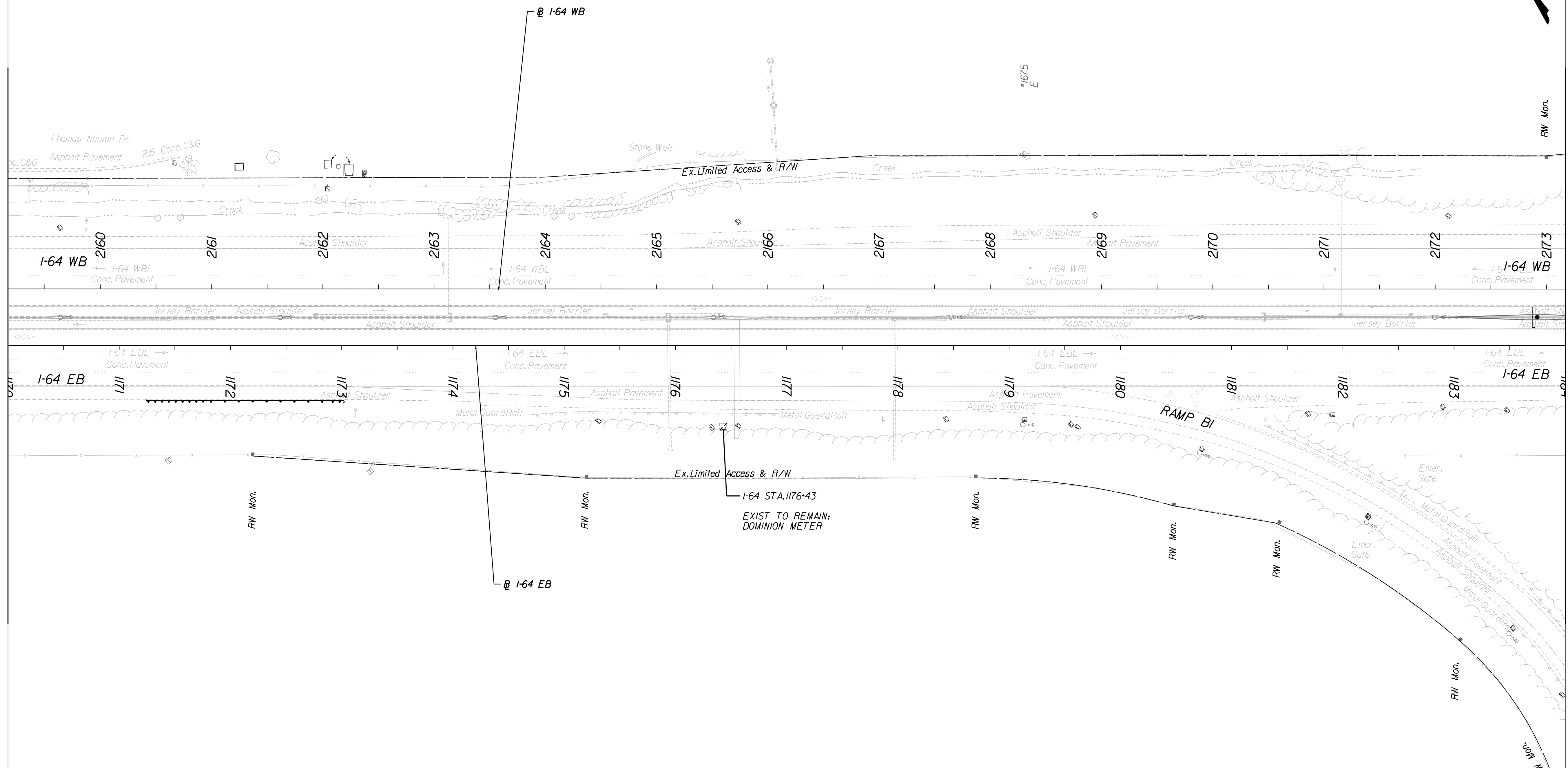
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
ITS ENGINEER



MATCHLINE STA. 1170+00 SEE SHEET 54(36)

MATCHLINE STA. 1184+00 SEE SHEET 54(38)



EXIST TO REMAIN:
DOMINION METER

P.H. PLANS
 THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

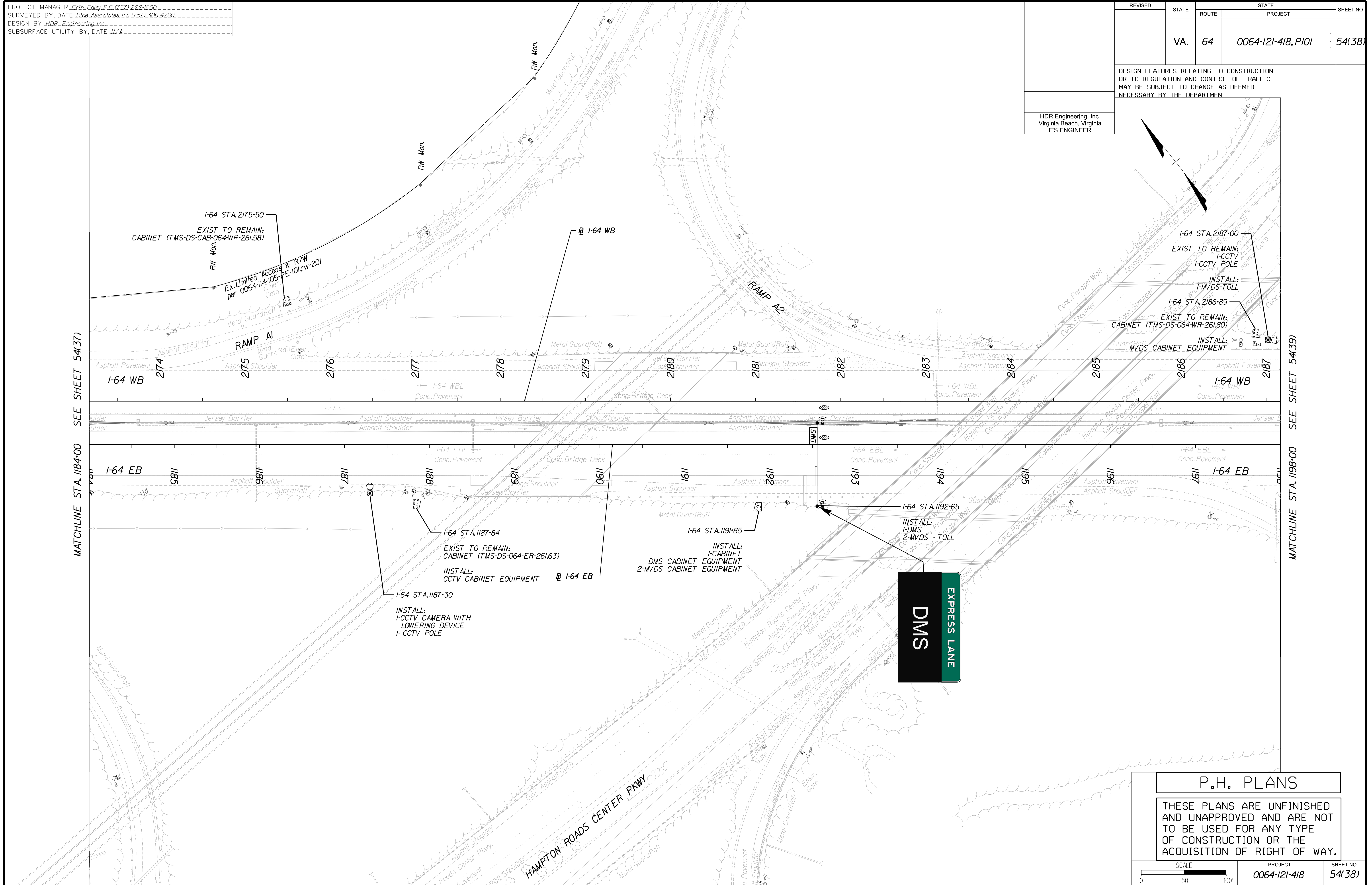
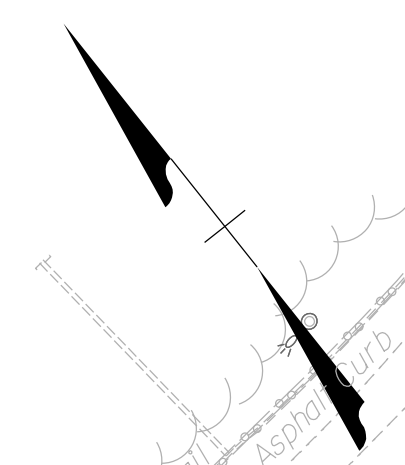
SCALE 0 50 100'	PROJECT 0064-121-418	SHEET NO. 54(37)
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PROJECT MANAGER: Erin Eoley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineer Inc.
SUBSURFACE UTILITY BY, DATE: MZA

REVISED	STATE		SHEET NO.
	ROUTE	PROJECT	
	VA.	0064-121-418, P101	54(38)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
ITS ENGINEER



MATCHLINE STA. 1184+00 SEE SHEET 54(37)

MATCHLINE STA. 1198+00 SEE SHEET 54(39)

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

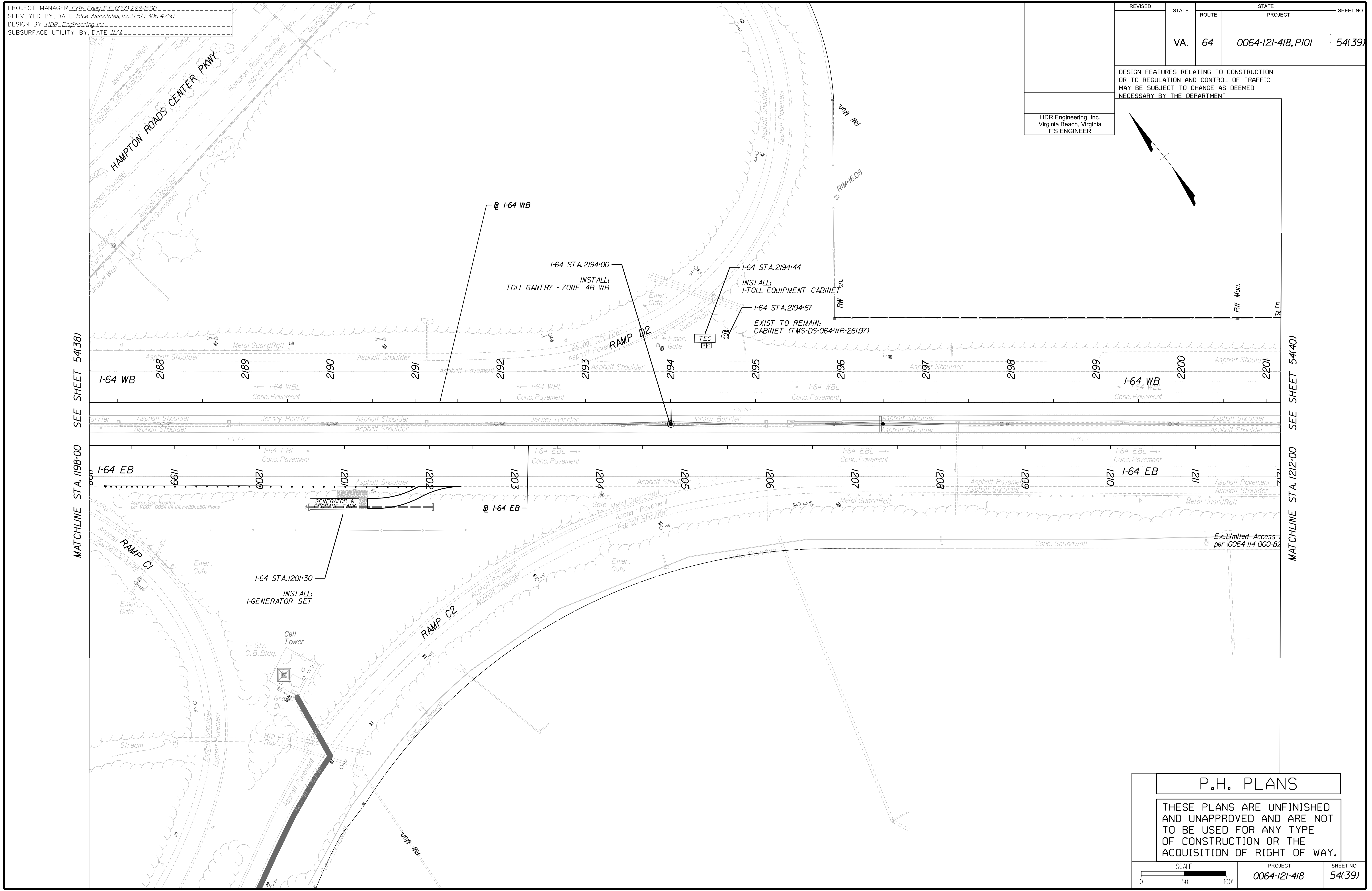
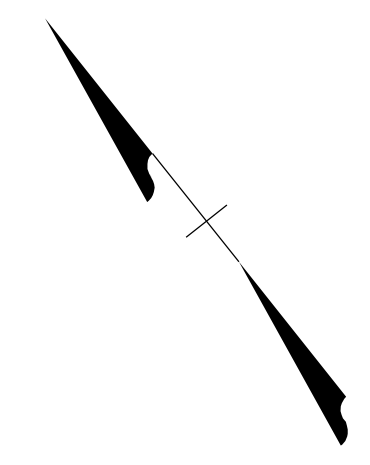
SCALE 0 50 100'	PROJECT 0064-121-418	SHEET NO. 54(38)
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PROJECT MANAGER: Erin Eoley, P.E. (757) 222-1500
 SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
 DESIGN BY: HDR, Engineer Inc.
 SUBSURFACE UTILITY BY: DATE: MZA

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	54(39)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
ITS ENGINEER



MATCHLINE STA. 1198+00 SEE SHEET 54(38)

MATCHLINE STA. 1212+00 SEE SHEET 54(40)

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

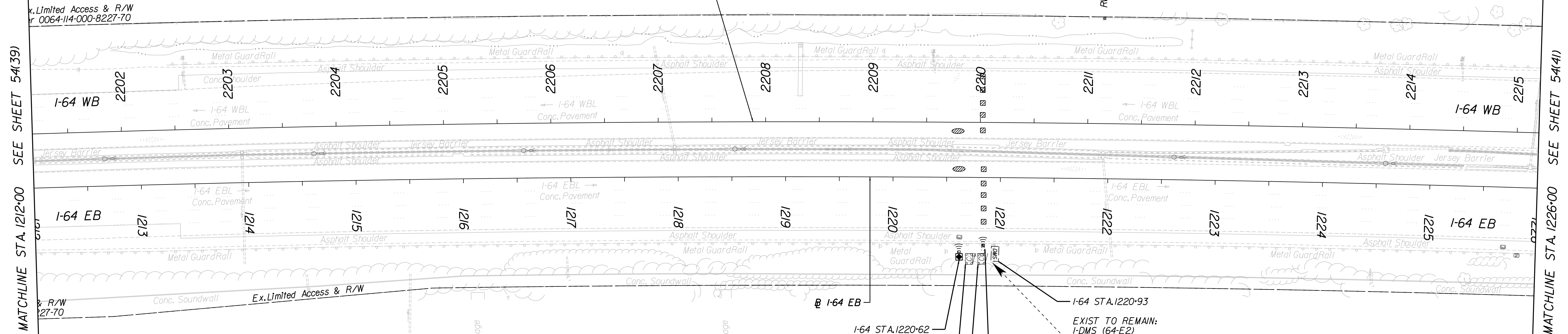
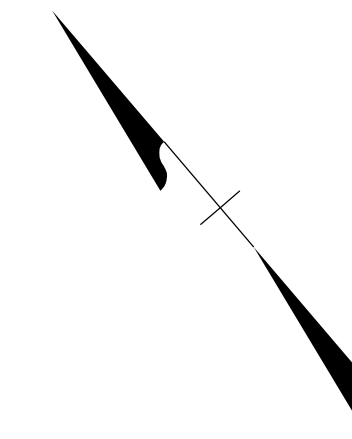
SCALE 0 50 100'	PROJECT 0064-121-418	SHEET NO. 54(39)
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PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineer/Inc.
SUBSURFACE UTILITY BY, DATE: MZA

REVISED	STATE		STATE		SHEET NO.
	ROUTE	PROJECT	PROJECT	PROJECT	
	VA.	64	0064-121-418, P101		54(40)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
ITS ENGINEER



- I-64 STA. 1220+62
INSTALL:
1-MVDS - TOLL
1-MVDS POLE
- I-64 STA. 1220+65
EXIST TO REMAIN:
2-CABINET (64-802)
- INSTALL:
MVDS CABINET EQUIPMENT
- I-64 STA. 1220+83
EXIST TO REMAIN:
1-CABINET (ER0-064-ER-262.05)
- I-64 STA. 1220+85
EXIST TO REMAIN:
1-MVDS POLE
- EXIST TO REPLACE:
1-MVDS - ATMS
- I-64 STA. 1220+93
EXIST TO REMAIN:
1-DMS (64-E2)

DMS

P.H. PLANS

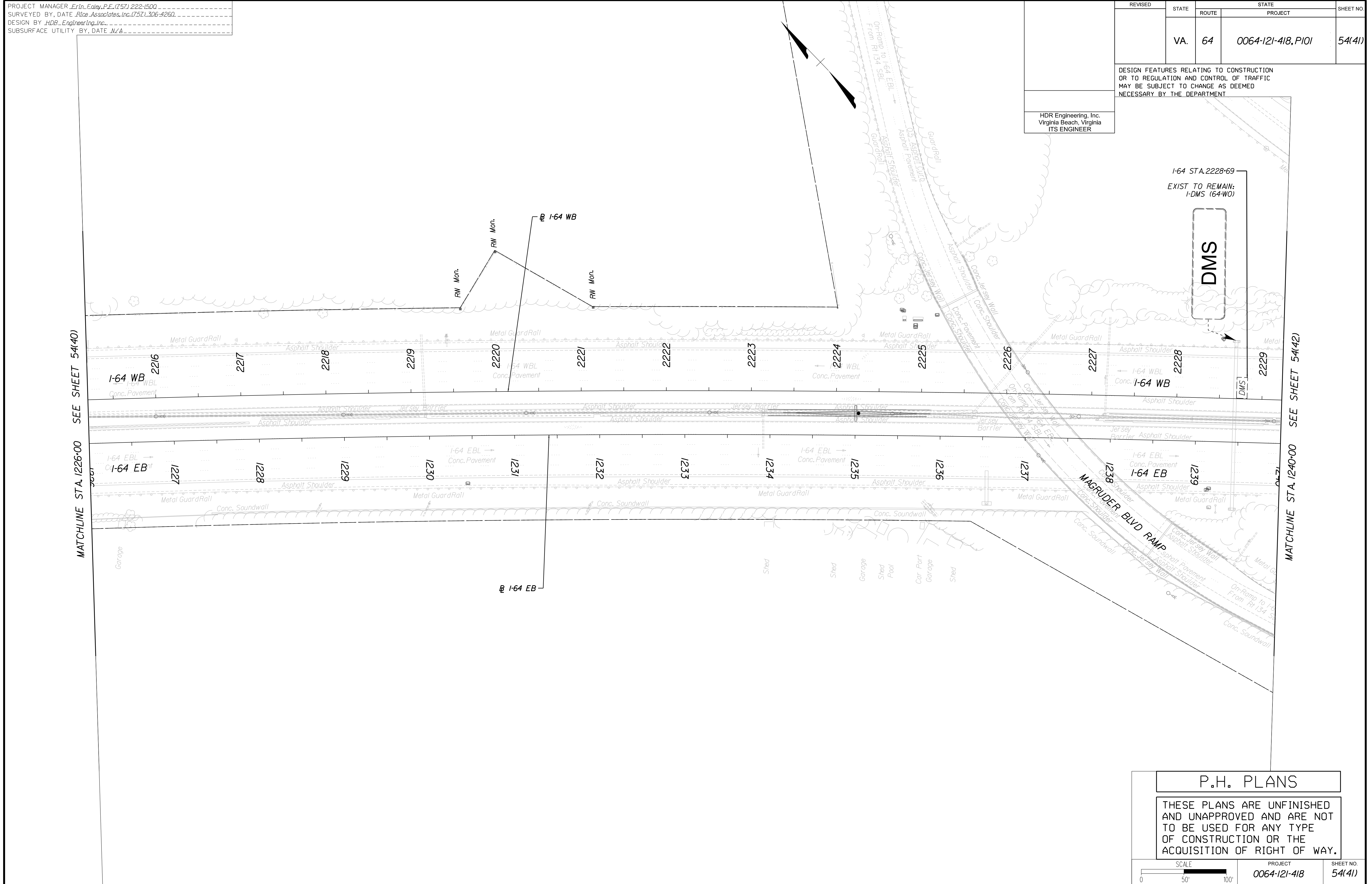
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: MZA

REVISED	STATE		SHEET NO.
	ROUTE	PROJECT	
	VA.	0064-121-418, P101	54(41)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
ITS ENGINEER



I-64 STA. 2228+69
EXIST TO REMAIN:
I-DMS (64-WO)

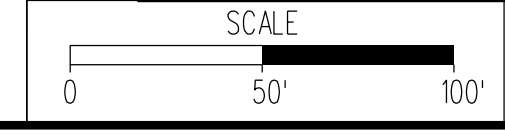
DMS

MATCHLINE STA. 1226+00 SEE SHEET 54(40)

MATCHLINE STA. 1240+00 SEE SHEET 54(42)

P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.



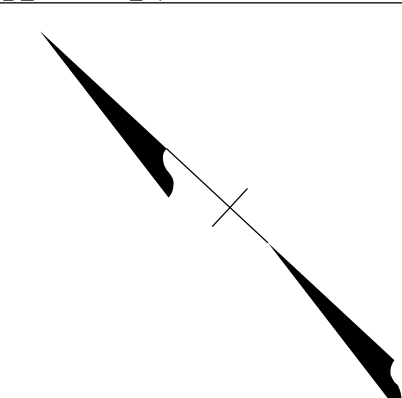
PROJECT	SHEET NO.
0064-121-418	54(41)

PROJECT MANAGER: Erin Eoley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineer/Insp. Inc.
SUBSURFACE UTILITY BY, DATE: MZA

REVISED	STATE		PROJECT	SHEET NO.
	STATE	ROUTE		
	VA.	64	0064-121-418, P101	54(42)

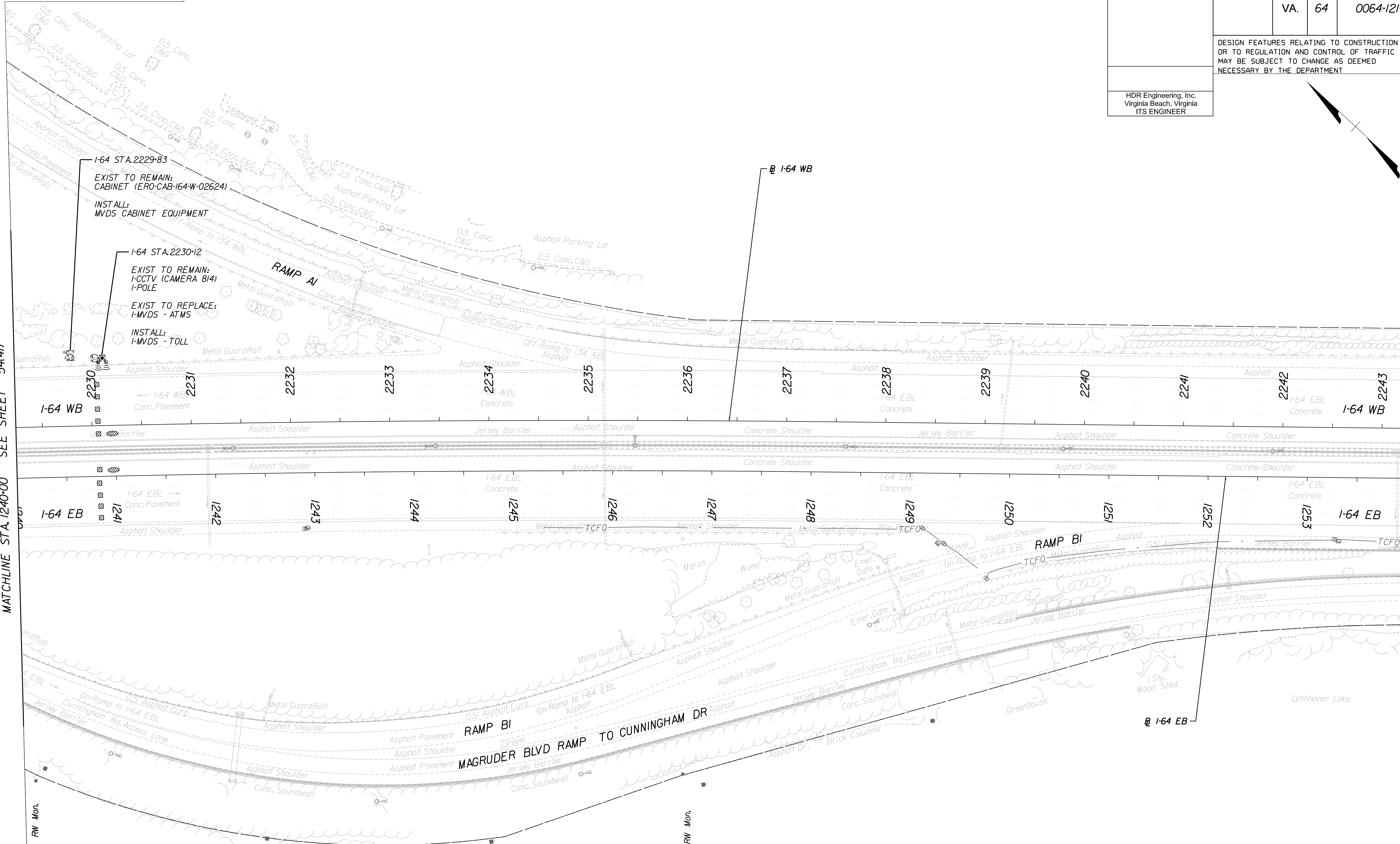
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
ITS ENGINEER



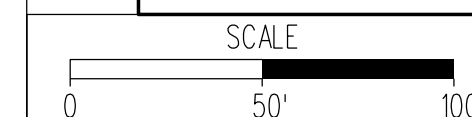
MATCHLINE STA. 1240+00 SEE SHEET 54(41)

MATCHLINE STA. 1254+00 SEE SHEET 54(43)



P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.



PROJECT
0064-121-418

SHEET NO.
54(42)

PROJECT MANAGER: Erin Eoley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDR Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: MZA

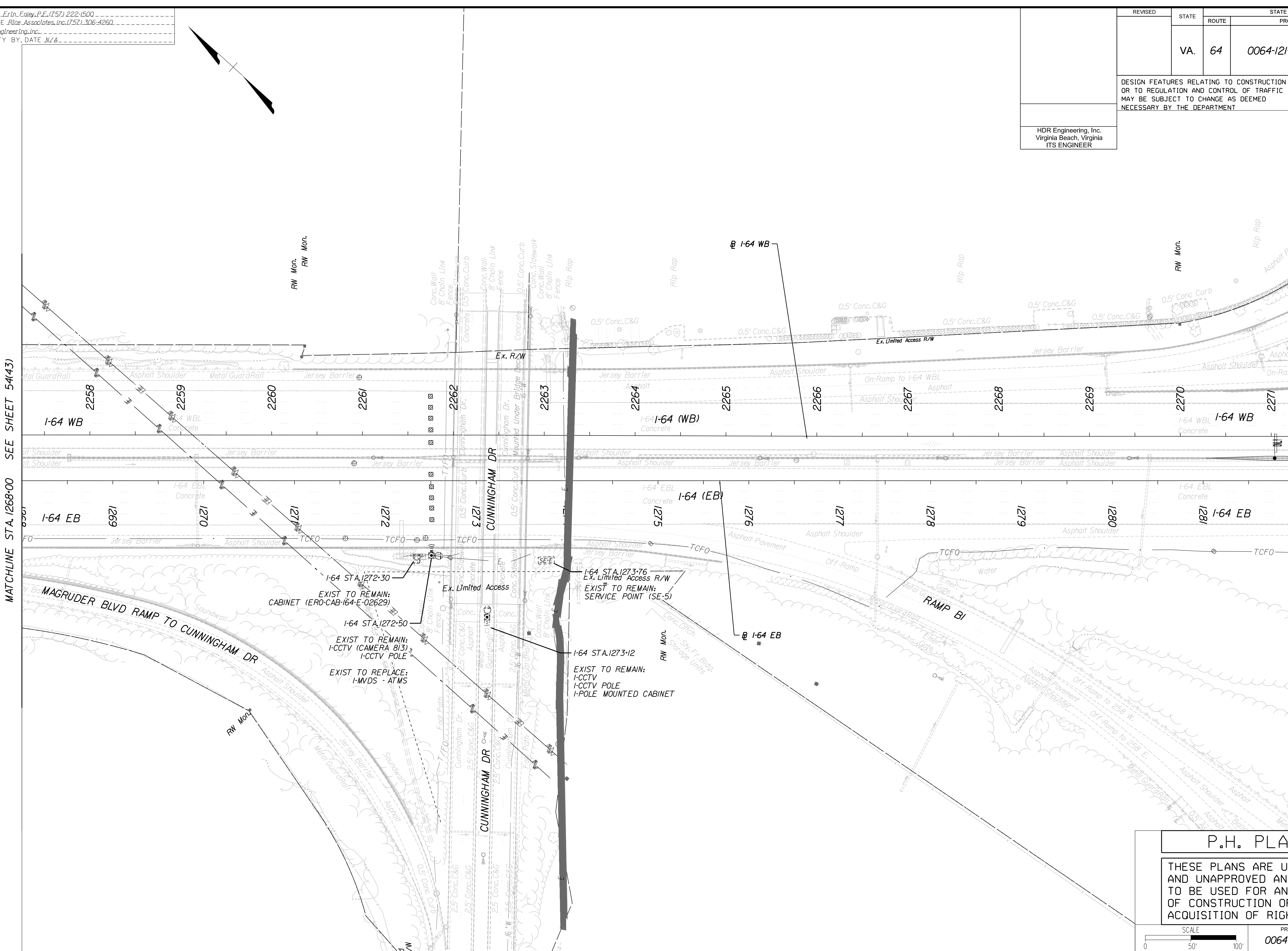
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	54(44)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
ITS ENGINEER

MATCHLINE STA. 1268+00 SEE SHEET 54(43)

MATCHLINE STA. 1282+00 SEE SHEET 54(45)



P.H. PLANS

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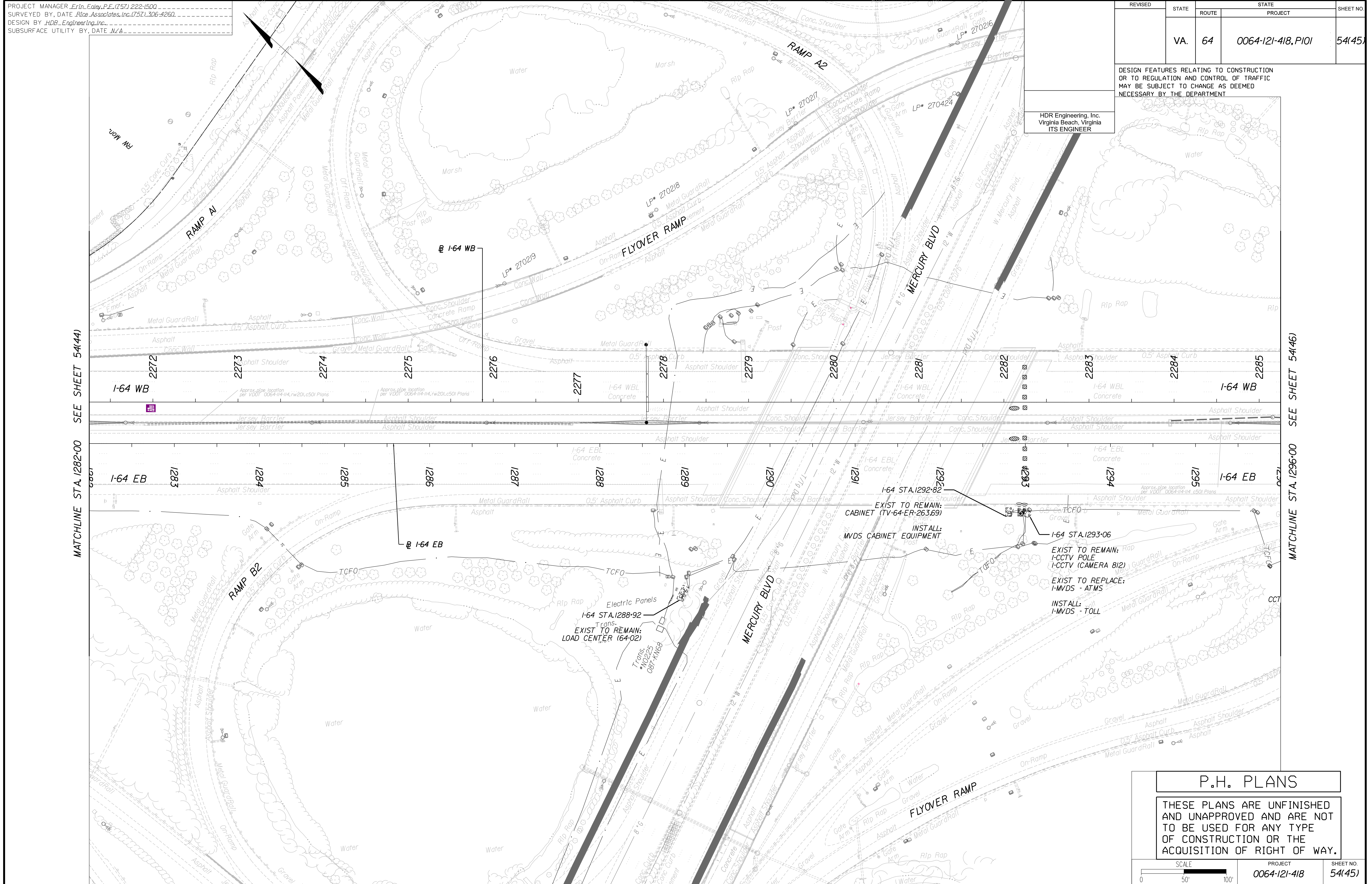
SCALE 0 50' 100'	PROJECT 0064-121-418	SHEET NO. 54(44)
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PROJECT MANAGER: Erin Eoley, P.E. (757) 222-1500
SURVEYED BY: DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDR Engineering, Inc.
SUBSURFACE UTILITY BY: DATE: MZA

REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA.	64	0064-121-418, P101	54(45)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
ITS ENGINEER



MATCHLINE STA. 1282+00 SEE SHEET 54(44)

MATCHLINE STA. 1296+00 SEE SHEET 54(46)

EXIST TO REMAIN:
CABINET (TV-64-ER-263.69)

INSTALL:
MVDS CABINET EQUIPMENT

I-64 STA. 1292+82

I-64 STA. 1293+06

EXIST TO REMAIN:
Ramp
I-CCTV POLE
I-CCTV (CAMERA 812)

EXIST TO REPLACE:
I-MVDS - ATMS

INSTALL:
I-MVDS - TOLL

I-64 STA. 1288+92

EXIST TO REMAIN:
LOAD CENTER (64-02)

Trans:
110223
087-M168

Electric Panels

P.H. PLANS

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SCALE: 0 50 100'

PROJECT: 0064-121-418

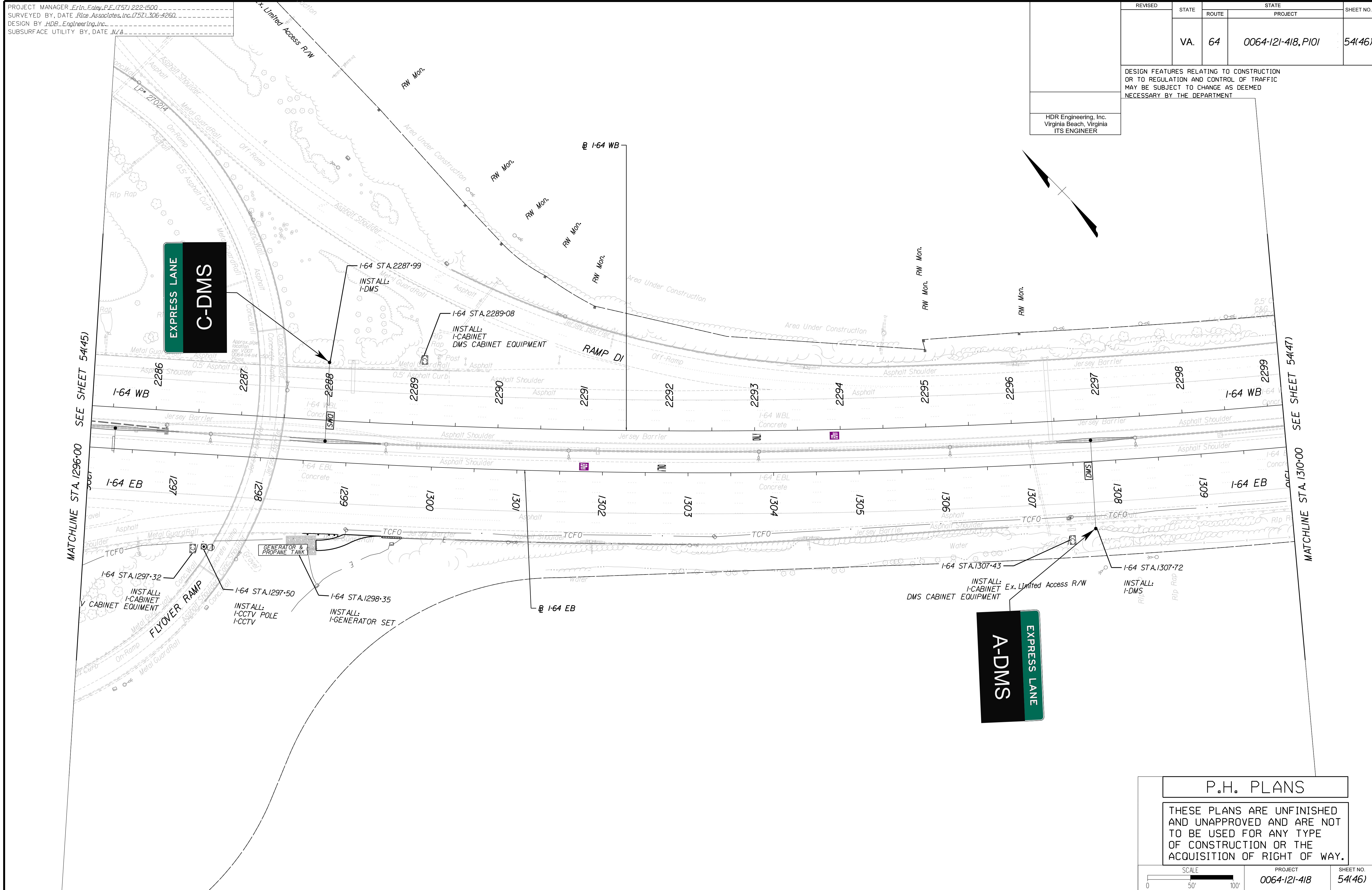
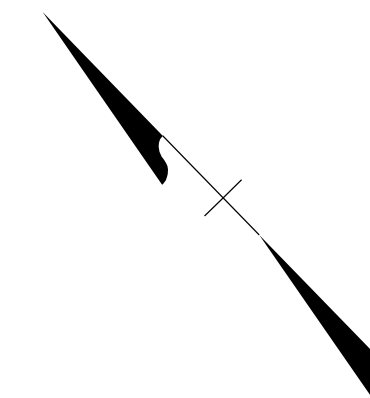
SHEET NO.: 54(45)

PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: N/A

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	54(46)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
ITS ENGINEER



MATCHLINE STA. 1296+00 SEE SHEET 54(45)

MATCHLINE STA. 1310+00 SEE SHEET 54(47)

P.H. PLANS

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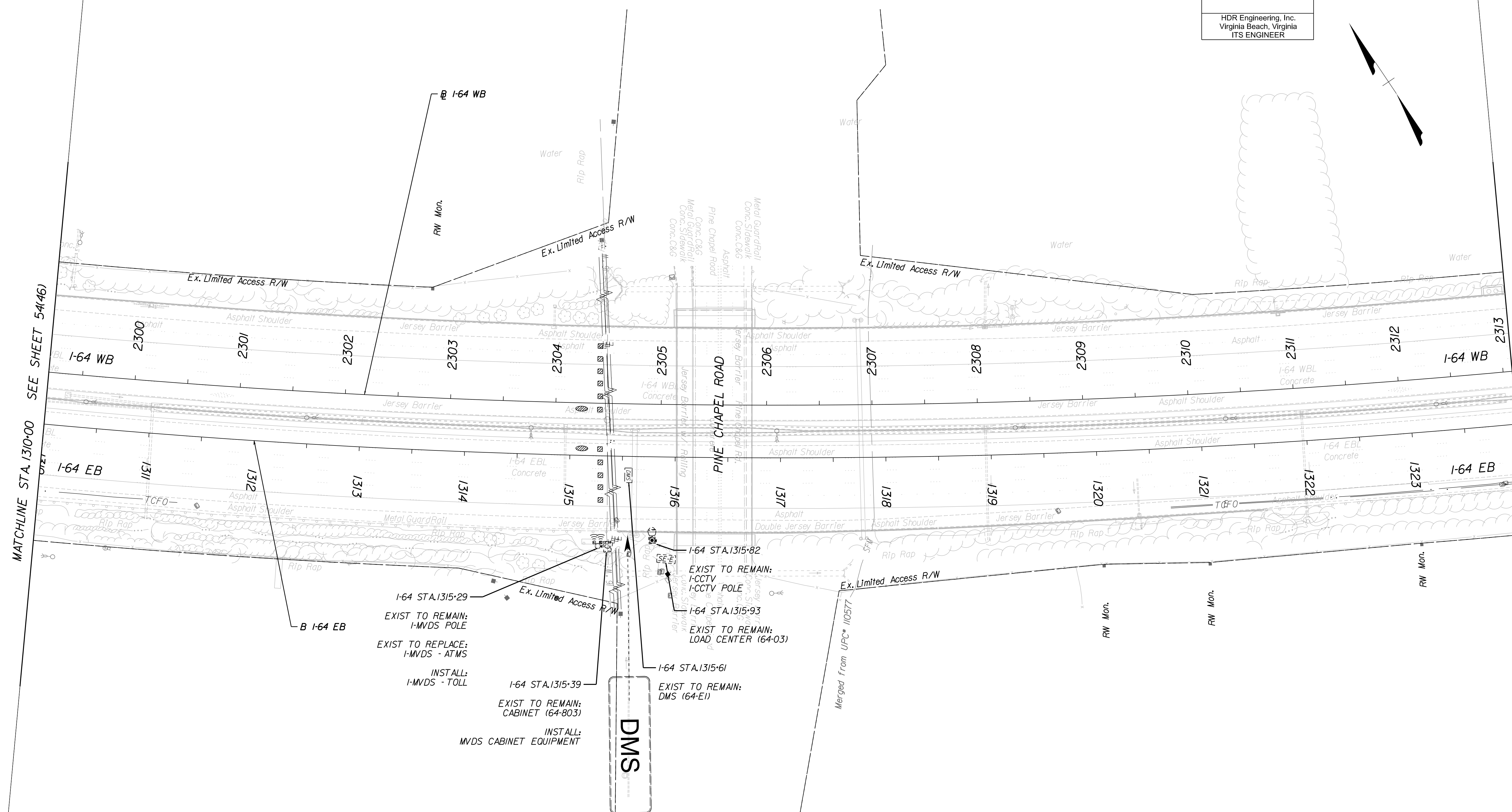
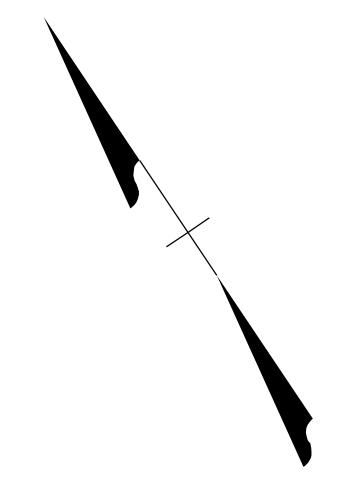
SCALE 0 50 100'	PROJECT 0064-121-418	SHEET NO. 54(46)
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PROJECT MANAGER: Erin Eoley, P.E. (757) 222-1500
 SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
 DESIGN BY: HDR, Engineering, Inc.
 SUBSURFACE UTILITY BY, DATE: N/A

REVISED	STATE		PROJECT	SHEET NO.
	VA.	ROUTE 64		
	0064-121-418, P101		54(47)	

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
ITS ENGINEER



P.H. PLANS

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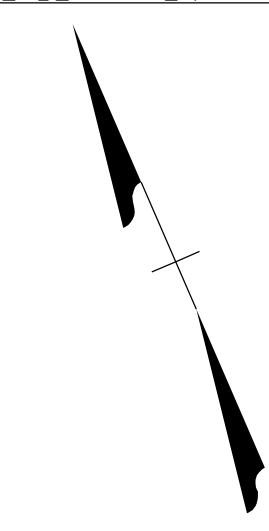
SCALE 0 50 100'	PROJECT 0064-121-418	SHEET NO. 54(47)
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PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDR Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: MZA

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	54(48)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
ITS ENGINEER

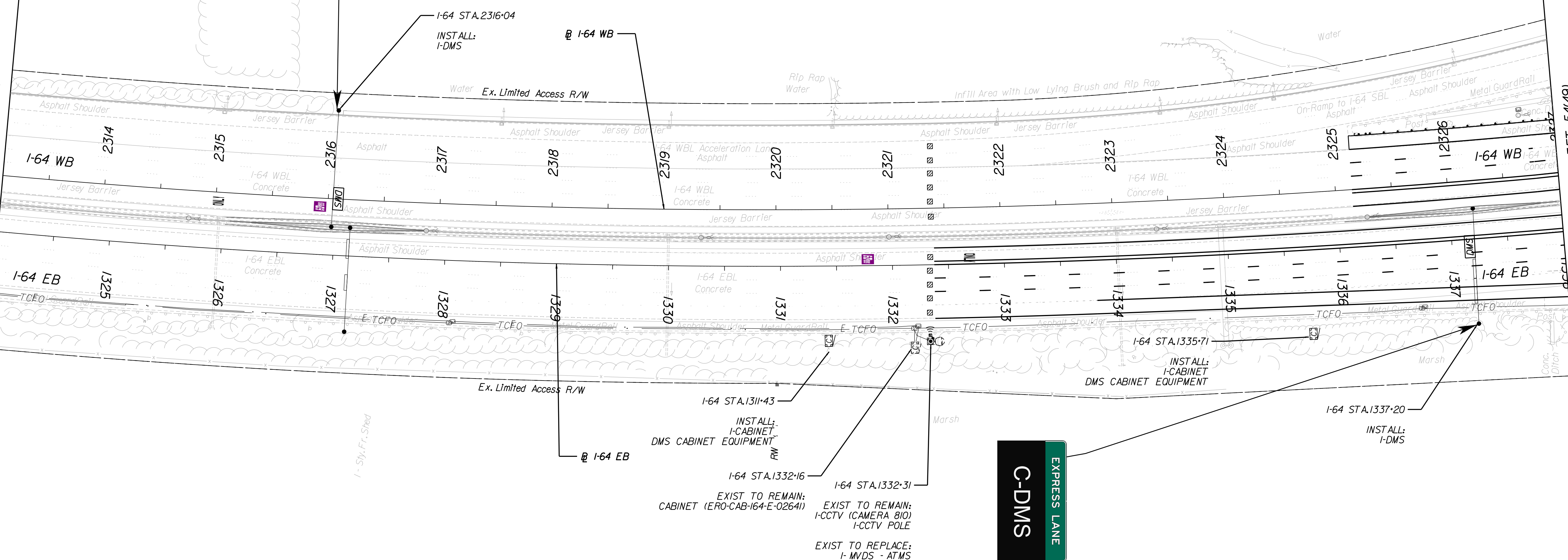


EXPRESS LANE
A-DMS

EXPRESS LANE
C-DMS

MATCHLINE STA. 1324+00 SEE SHEET 54(47)

MATCHLINE STA. 1338+00 SEE SHEET 54(49)



P.H. PLANS

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SCALE: 0 50' 100'

PROJECT: 0064-121-418

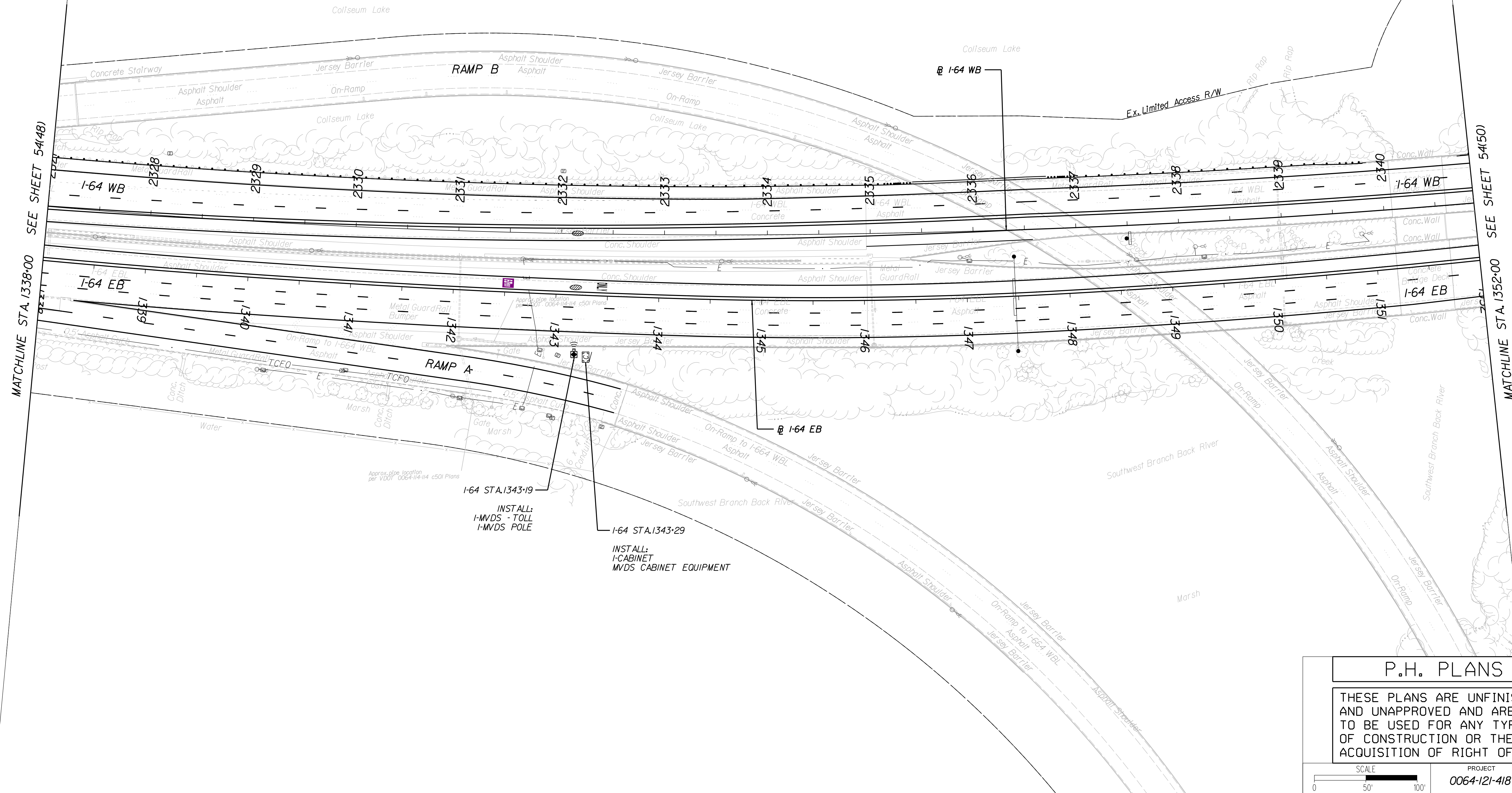
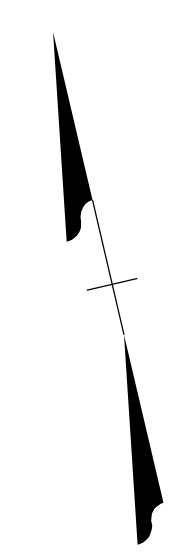
SHEET NO.: 54(48)

PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineer/ing, Inc.
SUBSURFACE UTILITY BY, DATE: MZA

REVISED	STATE		STATE		SHEET NO.
	ROUTE	PROJECT	PROJECT	PROJECT	
	VA.	64	0064-121-418, P101		54(49)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
ITS ENGINEER



MATCHLINE STA. 1338+00 SEE SHEET 54(48)

MATCHLINE STA. 1352+00 SEE SHEET 54(50)

I-64 STA. 1343+19
INSTALL:
I-MVDS - TOLL
I-MVDS POLE

I-64 STA. 1343+29
INSTALL:
I-CABINET
MVDS CABINET EQUIPMENT

P.H. PLANS

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SCALE

PROJECT

0064-121-418

SHEET NO.

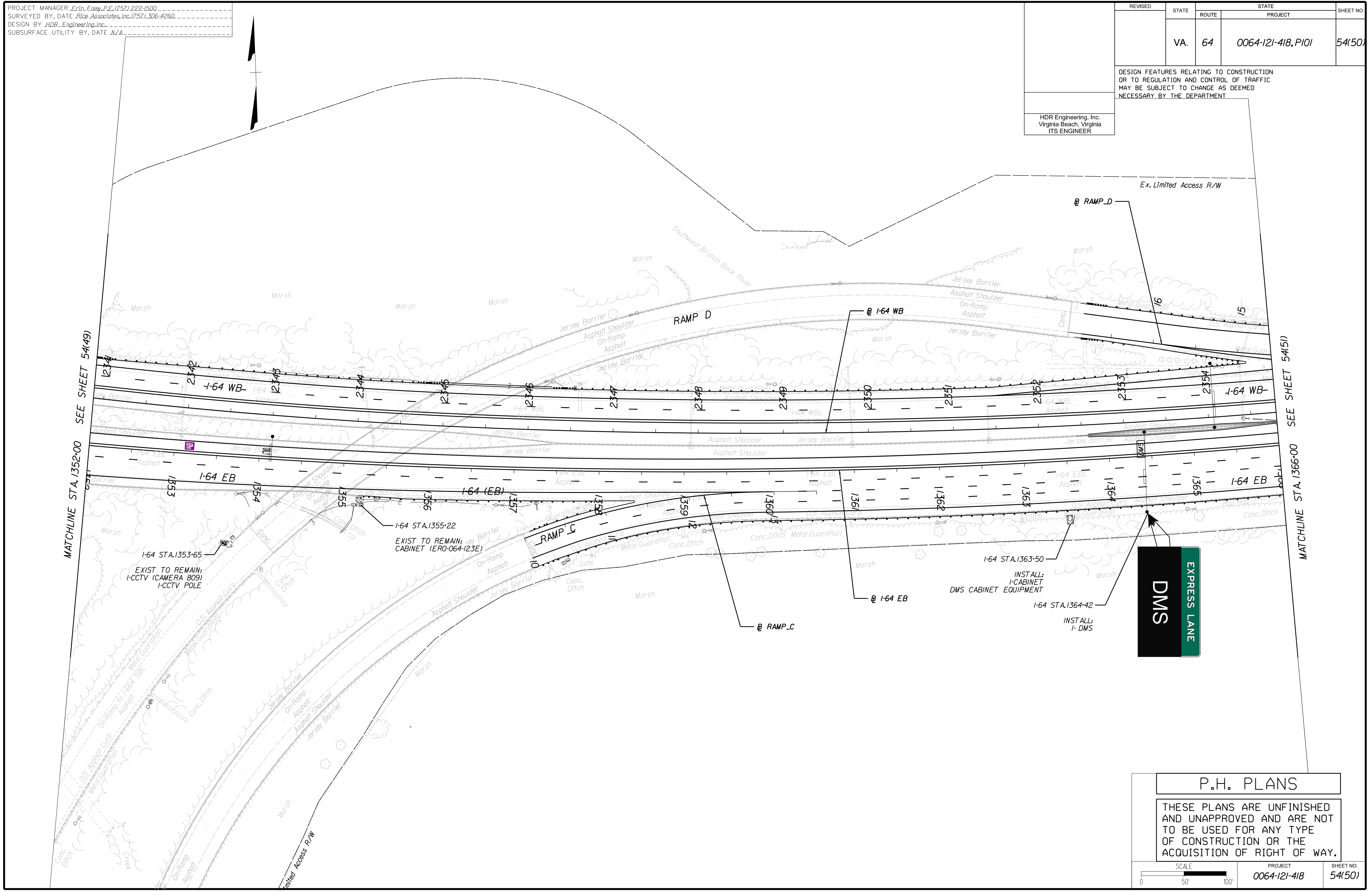
54(49)

PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
 SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
 DESIGN BY: HDR Engineering, Inc.
 SUBSURFACE UTILITY BY, DATE: MZA

REVISED	STATE	STATE		SHEET NO.
	ROUTE	PROJECT		
	VA.	64	0064-121-418, P101	54(50)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
ITS ENGINEER



DMS
EXPRESS LANE

P.H. PLANS

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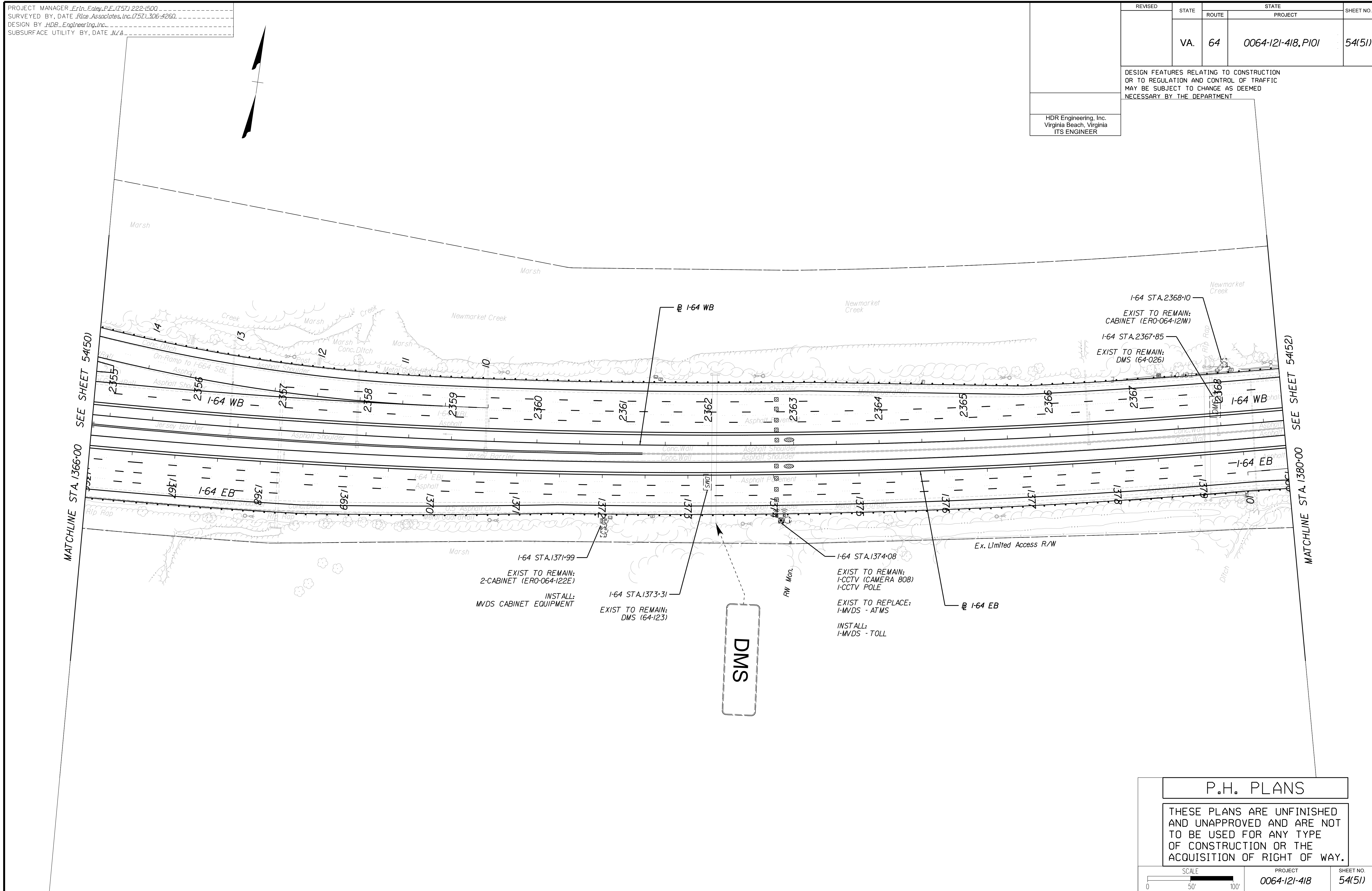
SCALE 0 50 100'	PROJECT 0064-121-418	SHEET NO. 54(50)
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PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
 SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
 DESIGN BY: HDR, Engineer/ing, Inc.
 SUBSURFACE UTILITY BY, DATE: MZA

REVISED	STATE	STATE		SHEET NO.
	ROUTE	PROJECT		
	VA.	64	0064-121-418, P101	54(51)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
ITS ENGINEER



MATCHLINE STA. 1366+00 SEE SHEET 54(50)

MATCHLINE STA. 1380+00 SEE SHEET 54(52)

P.H. PLANS

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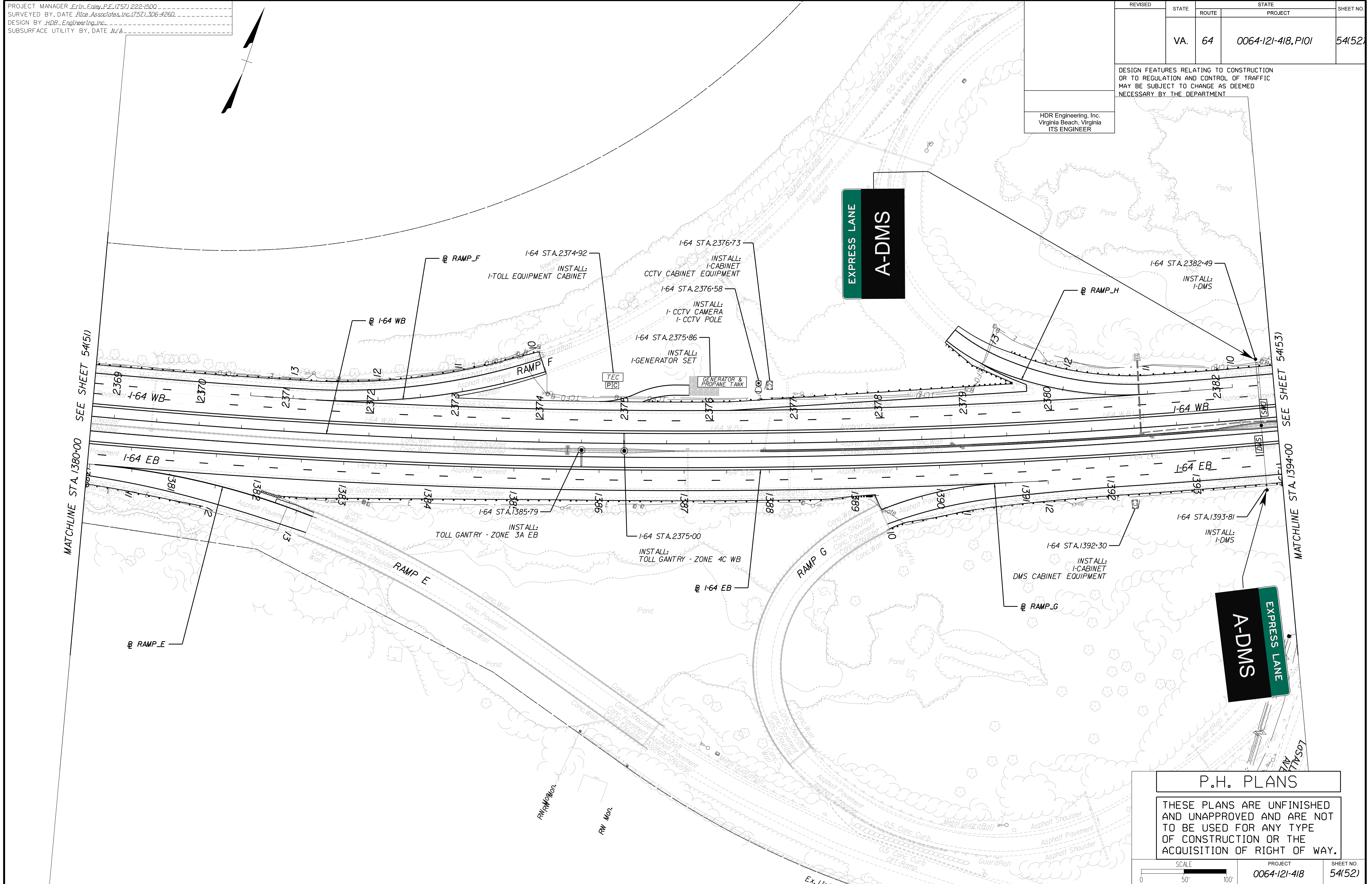
SCALE 0 50 100'	PROJECT 0064-121-418	SHEET NO. 54(51)
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PROJECT MANAGER: Erin Eoley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: N/A

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	54(52)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
ITS ENGINEER



EXPRESS LANE
A-DMS

EXPRESS LANE
A-DMS

P.H. PLANS

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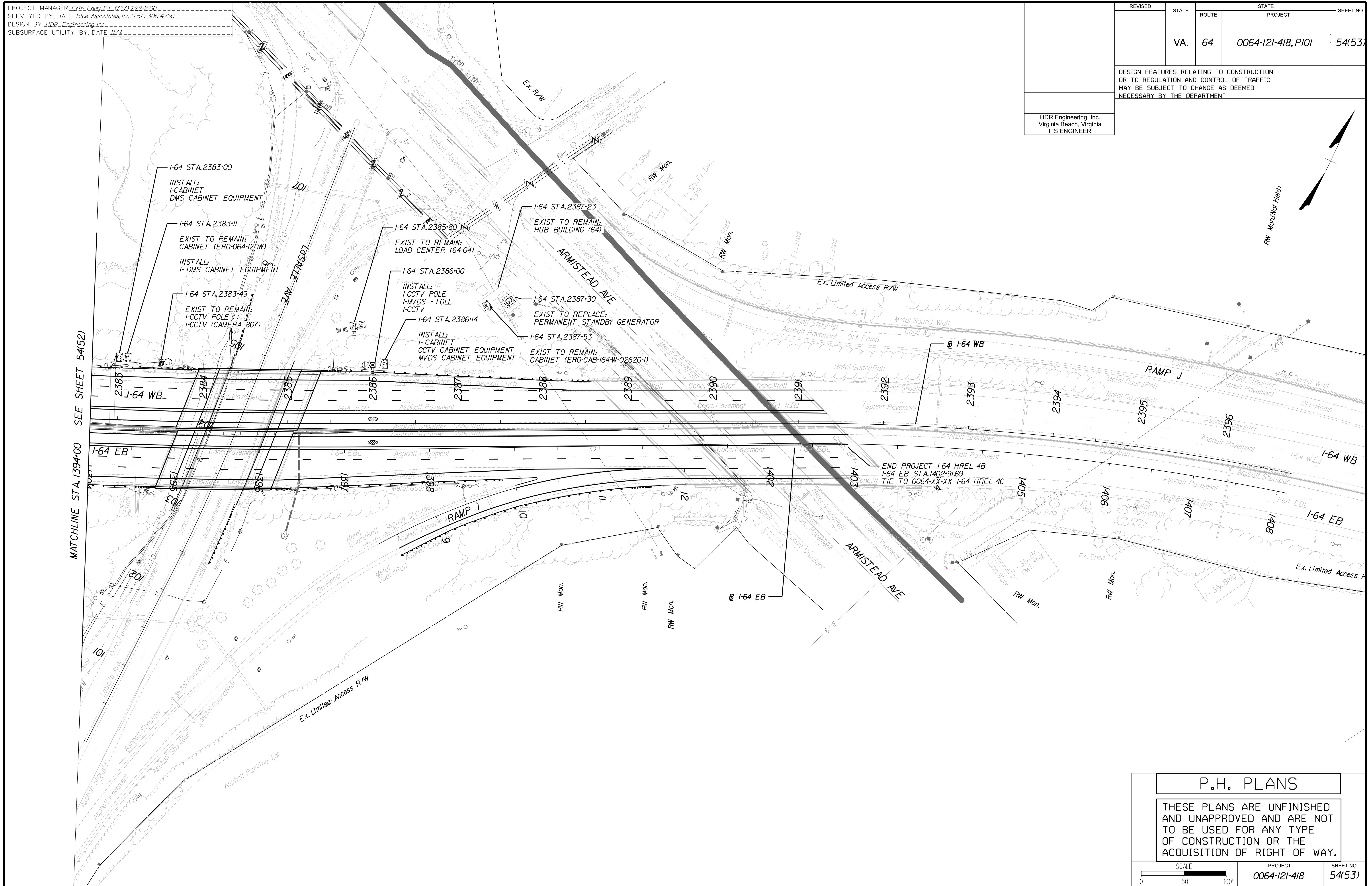
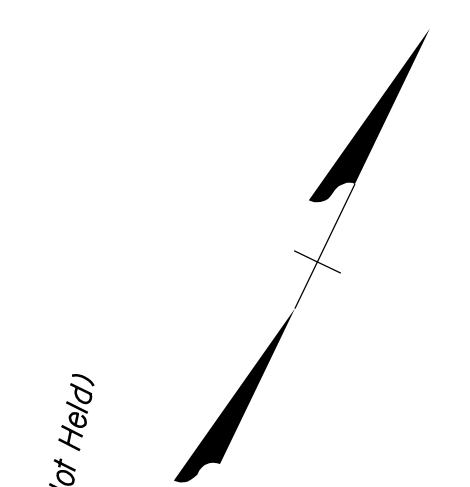
SCALE 0 50 100'	PROJECT 0064-121-418	SHEET NO. 54(52)
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PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineer/Ingr, Inc.
SUBSURFACE UTILITY BY, DATE: MZA

REVISED	STATE		SHEET NO.
	ROUTE	PROJECT	
	VA.	0064-121-418, P101	54(53)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
ITS ENGINEER



MATCHLINE STA. 1394+00 SEE SHEET 54(52)

P.H. PLANS

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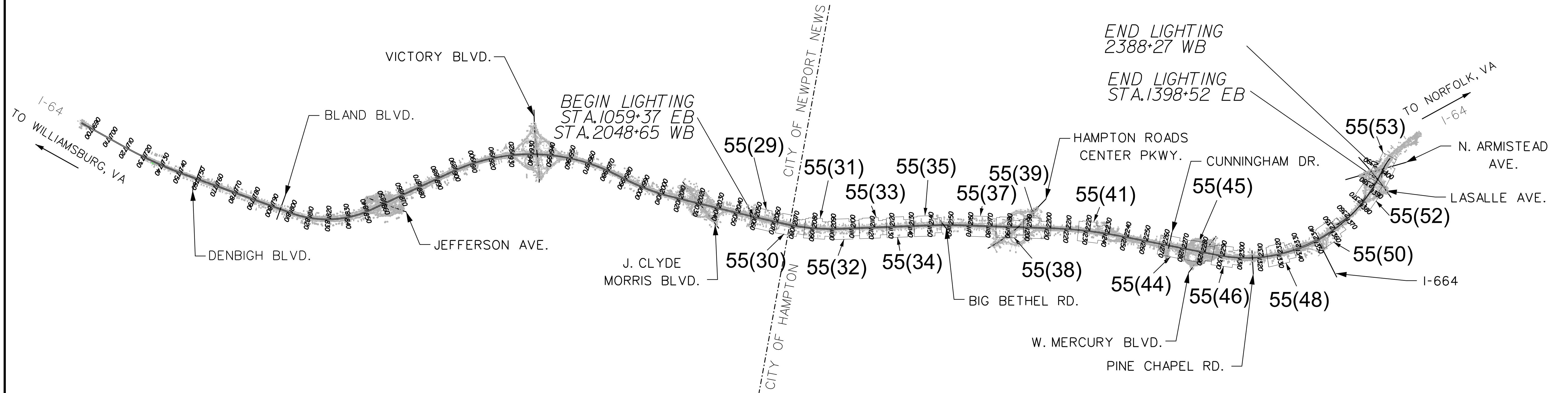
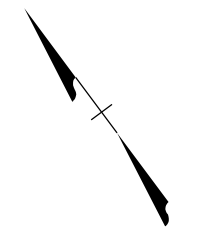
SCALE 0 50 100'	PROJECT 0064-121-418	SHEET NO. 54(53)
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PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDB, Engineer Inc.
SUBSURFACE UTILITY BY, DATE: N/A

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	55(1)

LIGHTING SHEET LAYOUT

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



P.H. PLANS

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SCALE 0 5000' 10000'	PROJECT 0064-121-418	SHEET NO. 55(1)
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PROJECT MANAGER Erin Foley, P.E. (757) 222-1500
 SURVEYED BY, DATE Rice Associates, Inc. (757) 306-4260
 DESIGN BY HDB Engineering, Inc.
 SUBSURFACE UTILITY BY, DATE N/A

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	55(2)

LIGHTING GENERAL NOTES AND LEGEND

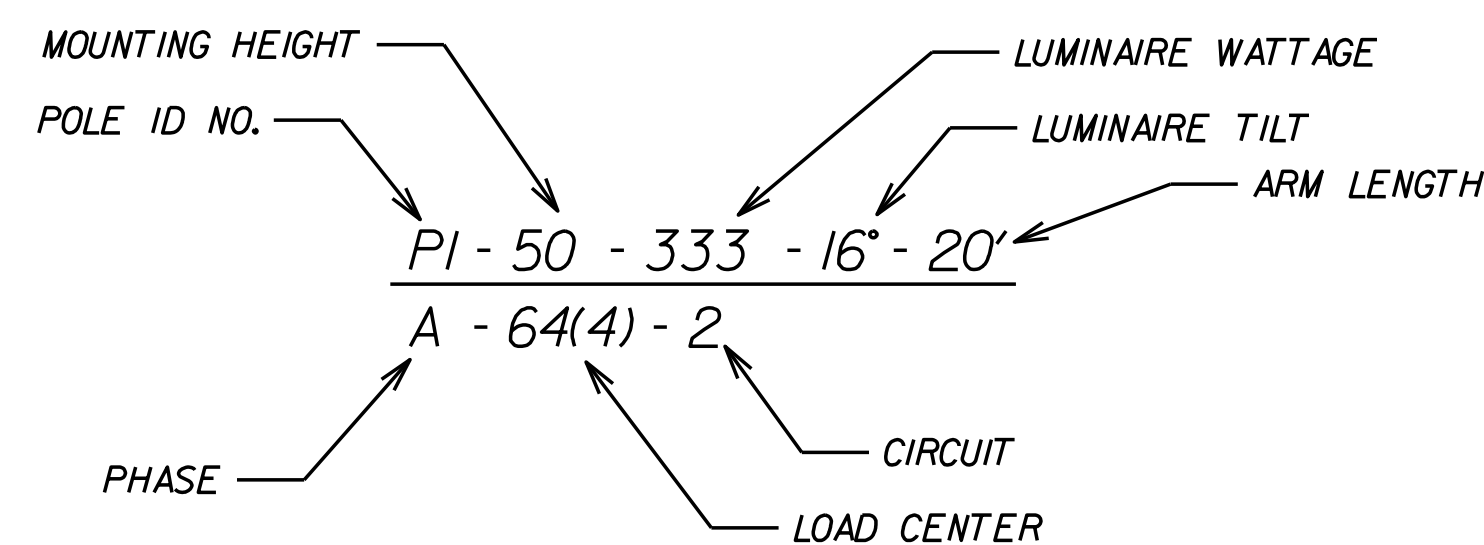
GENERAL NOTES

- LOCATIONS OF EXISTING LIGHT POLES AND JUNCTION BOXES SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL FIELD VERIFY EXISTING LOCATIONS.
- ALL LIGHTING SHALL BE FURNISHED PER MANUFACTURER'S STANDARDS AS NOTED ON THE PLANS.
- ALL LUMINAIRES SHALL BE FUSED IN THE TRANSFORMER BASE, HANDHOLE, FUSE BOX, OR NEAREST JUNCTION BOX.
- EQUIPMENT GROUNDING CONDUCTORS SHOWN ON THE PLANS ARE REQUIRED ONLY IF THE CONDUIT IS NON-METALLIC.
- EXISTING IDENTIFICATION TAGS SHALL BE RELOCATED WITH THE LIGHT POLES. THE CONTRACTOR SHALL REPLACE ANY DAMAGED OR MISSING IDENTIFICATION TAGS.
- THE CONTRACTOR SHALL COORDINATE ROUTING OF ALL CONDUIT RUNS WITH THE VDOT ENGINEER.
- LIGHTING CABLES IN ALL JUNCTION BOXES AND EQUIPMENT ENCLOSURES SHALL BE IDENTIFIED WITH INDIVIDUAL NON-FERROUS METAL TAGS OR NYLON TAGS FOR POWER CONDUCTORS PER SECTION 700.05.
- ALL EXISTING CONDUCTOR RUNS TO BE REUSED SHALL BE SPLICED WITH NEW CONDUCTORS AS SHOWN ON THE PROJECT PLANS.
- ALL EXISTING GROUND WIRES TO BE REUSED SHALL BE SPLICED WITH NEW GROUND WIRES AT ALL SPLICE POINTS IN THE PLANS. GROUND WIRE SPLICING IS NOT SHOWN FOR CLARITY.
- CONDUITS SHOWN ON THESE PLANS ARE DIAGRAMMATIC AND ACTUAL CONDUIT RUNS SHALL CONFORM TO FIELD CONDITIONS. WHERE POSSIBLE TRENCH FOR ELECTRICAL CONDUITS.
- ALL CONDUITS SHALL BE SLOPED TO DRAIN TO JUNCTION BOXES OR MANHOLES. IF THIS CANNOT BE ACCOMPLISHED, THEY SHALL BE PROVIDED WITH DRAINAGE TEES AT THE LOW POINTS OF CONDUIT RUNS.
- ALL JUNCTION BOXES AND MANHOLES SHALL BE PROVIDED WITH A MEANS FOR DRAINAGE.
- WHERE CONDUCTOR CABLES TERMINATE IN JUNCTION BOXES OR LIGHTING STANDARDS, THEY SHALL BE TESTED AND CAPPED. LEAVE 3 FEET OF SLACK PER CONDUCTOR IN THE BOX OR LIGHTING STANDARD.
- ONLY APPROVED SPLICE KITS SHALL BE ALLOWED AT SPLICE POINTS IN THE ELECTRICAL POWER SYSTEM FOR THIS PROJECT.
- ANY AND ALL PIPE SLEEVES SHALL BE INSTALLED IN ACCORDANCE WITH VDOT STANDARD ECI-2.
- ALL CONDUCTORS SHALL BE COLOR-CODED AS REQUIRED IN THE SPECIFICATIONS. CERTIFIED CONDUCTOR TEST REPORTS SHALL BE APPROVED BY THE VDOT ENGINEER PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL FURNISH AND INSTALL AN EQUIPMENT GROUNDING CONDUCTOR IN ALL NON-METALLIC CONDUIT IN ACCORDANCE WITH SECTION 700 OF THE SPECIFICATIONS. THE MINIMUM EQUIPMENT GROUNDING CONDUCTOR SIZE SHALL BE THE SAME SIZE AS THE LARGEST CONDUCTOR INDICATED ON THE PLANS FOR EACH CONDUIT RUN.
- GROUND RODS SHALL NOT HAVE A RESISTANCE TO GROUND OF MORE THAN 25 OHMS IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 700 OF THE SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE THE ENGINEER OF RECORD WITH A REPORT OF ELECTRICAL RESISTANCE MEASURED BETWEEN THE GROUND ROD AND GROUND.
- GROUND RODS SHALL BE CONNECTED TO THE GROUND WIRE UTILIZING AN EXOTHERMIC WELD.
- CONDUCTORS IN JUNCTION BOXES, MANHOLES, AND ALL EQUIPMENT ENCLOSURES SHALL BE NEATLY ARRANGED AND LACED WITH APPROVED CABLE TIES.
- LOCATIONS OF EXISTING JUNCTION BOXES AND MANHOLES SHOWN ON THE PLANS ARE APPROXIMATE.
- CONDUCTORS IN ABANDONED CONDUIT ARE TO BE ABANDONED IN PLACE AND TAGGED AS SUCH.
- LIGHT POLE FOUNDATIONS DESIGNATED TO BE REMOVED SHALL BE REMOVED TO A DEPTH OF AT LEAST 2 FT. BELOW FINISHED GRADE.
- THE CONTRACTOR SHALL FIELD VERIFY POWER CIRCUITS PRIOR TO ABANDONING ELECTRICAL CONDUCTORS SHOWN ON THE PLANS. THE CONTRACTOR SHALL NOTIFY THE VDOT ENGINEER IMMEDIATELY IF DEMOLITION OR NEW CONSTRUCTION WILL IMPACT SERVICE TO OVERHEAD STRUCTURES OR OTHER POWERED COMPONENTS NOT DESIGNATED ON THE PLANS TO LOSE ELECTRICAL SERVICE.
- THE MAXIMUM ALLOWED LENGTH BETWEEN JUNCTION BOXES IS 250 FEET.
- LUMINAIRES FOR THIS PROJECT SHALL BE LIGHT EMITTING DIODE (LED) WITH A COLOR TEMPERATURE OF 4000K AND PHOTOMETRIC CLASSIFICATION OF TYPE III.

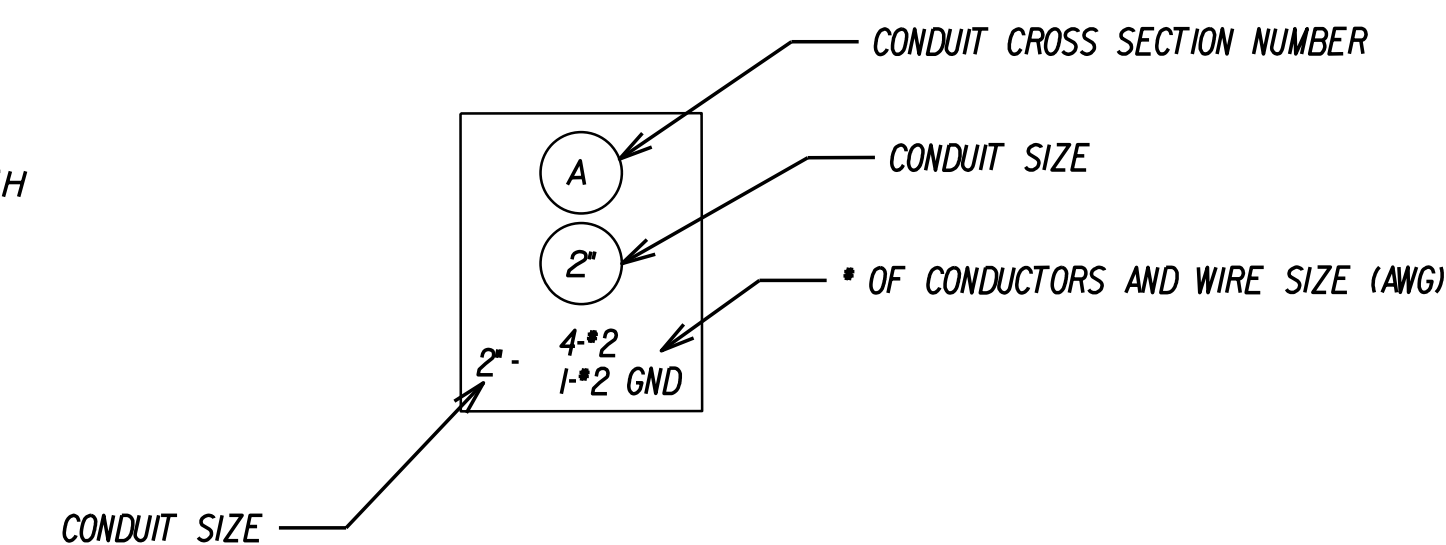
LIGHTING LEGEND

EXISTING	PROPOSED	DESCRIPTION
— E —	=====	OPEN TRENCH LIGHTING ELECTRICAL CONDUIT
— E —	=====*	DIRECTIONAL BORE LIGHTING ELECTRICAL CONDUIT
NOT USED	— ◆ — ◆ —	EXPOSED BRIDGE MOUNTED LIGHTING ELECTRICAL CONDUIT
		LIGHT POLE & LUMINAIRE
NOT USED		UNDERDECK LUMINAIRE
		JUNCTION BOX (JB-R1) UNLESS OTHERWISE NOTED ON PLANS
		FUSED SAFETY SWITCH
		NEMA 3R METAL JUNCTION BOX (6" X 6" X 4")
	NOT USED	LIGHTING CONTROL CENTER
	NOT USED	ELECTRICAL SERVICE

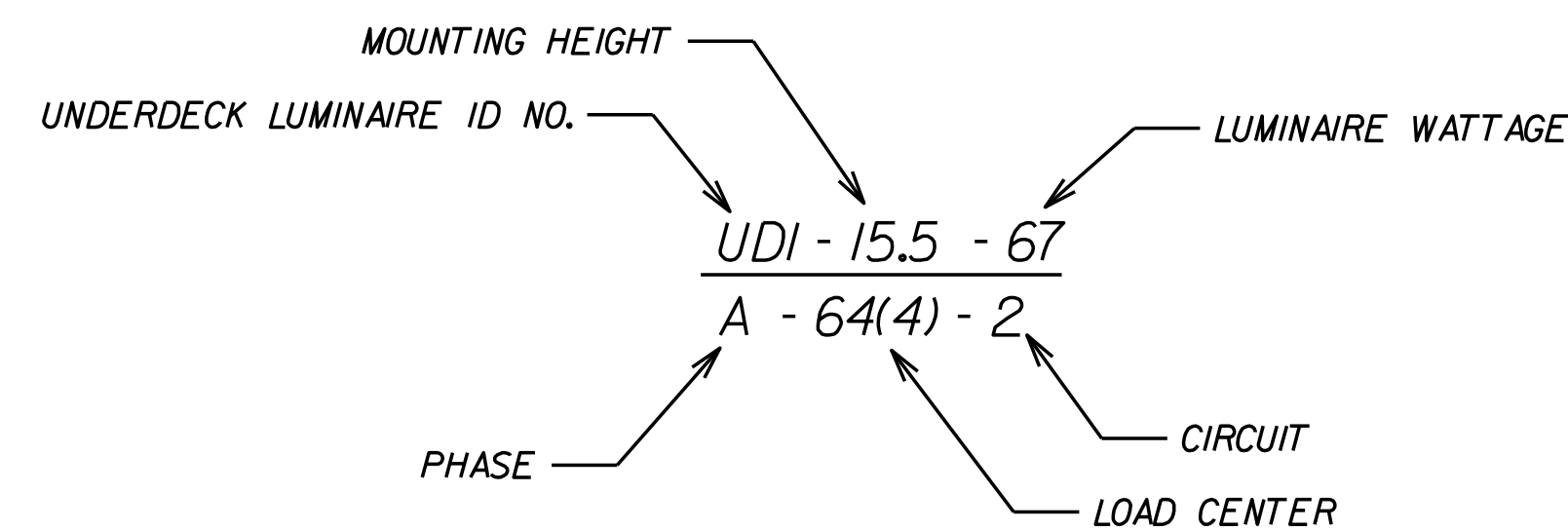
LIGHTPOLE CALLOUT INFORMATION



CONDUIT CROSS SECTION



UNDERDECK CALLOUT INFORMATION



P.H. PLANS
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PROJECT MANAGER: *Erin Foley, P.E. (757) 222-1500*
SURVEYED BY, DATE: *Rico Associates, Inc. (757) 306-4260*
DESIGN BY: *HDR Engineering, Inc.*
SUBSURFACE UTILITY BY, DATE: *N/A*

LIGHT POLE SCHEDULE

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	55(2A)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER

POLE NO.	CKT.	PHASE	CONTROL CENTER	STATION	OFFSET (FT)	BASELINE	DIRECTION	MOUNTING TYPE	MOUNTING HEIGHT (FT)	LUMINAIRE QUANTITY	LUMINAIRE TYPE	LUMINAIRE WATTAGE (W)	LUMINAIRE TILT ANGLE (DEGREES)	DESIGNATION
EX940859	4	B	EXIST. 64(259.01)	1060+45	25.71 LT	I-64 EB	EB/WB	MEDIAN	50	2	HPS	400W/400W	55	REMAIN
EX940860	6	C	EXIST. 64(259.01)	1062+41	25.63 LT	I-64 EB	EB/WB	MEDIAN	50	2	HPS	400W/400W	55	REMOVE
P1	6	C	EXIST. 64(259.01)	1062+52	25.6 LT	I-64 EB	EB/WB	MEDIAN	50	2	LED	333W/333W	0	PROPOSED
EX940864	6	C	EXIST. 64(259.01)	1069+99	25.87 LT	I-64 EB	EB/WB	MEDIAN	50	2	HPS	400W/400W	55	REMAIN
EX940865	2	A	EXIST. 64(259.01)	1071+81	26.03 LT	I-64 EB	EB/WB	MEDIAN	50	2	HPS	400W/400W	55	REMAIN
EX270845	2	A	EXIST. 64(259.01)	1077+87	25.82 LT	I-64 EB	EB/WB	MEDIAN	50	2	HPS	400W/400W	55	REMAIN
P2	4	B	EXIST. 64(259.01)	1087+44	25.32 LT	I-64 EB	EB/WB	MEDIAN	50	2	LED	333W/333W	0	PROPOSED
EX270850	4	B	EXIST. 64(259.01)	1087+48	25.37 LT	I-64 EB	EB/WB	MEDIAN	50	2	HPS	400W/400W	55	REMOVE
P3	4	B	EXIST. 64(259.56)	1099+54	25.49 LT	I-64 EB	EB/WB	MEDIAN	50	2	LED	333W/333W	0	PROPOSED
EX270856	4	B	EXIST. 64(259.56)	1099+57	25.43 LT	I-64 EB	EB/WB	MEDIAN	50	2	HPS	400W/400W	55	REMOVE
EX570857	6	C	EXIST. 64(259.56)	1101+56	25.47 LT	I-64 EB	EB/WB	MEDIAN	50	2	HPS	400W/400W	55	REMAIN
P4	6	C	EXIST. 64(259.56)	1107+46	25.44 LT	I-64 EB	EB/WB	MEDIAN	50	2	LED	333W/333W	0	PROPOSED
NA	6	C	EXIST. 64(259.56)	1107+50	25.71 LT	I-64 EB	EB/WB	MEDIAN	50	2	HPS	400W/400W	55	REMOVE
NA	5	C	EXIST. 64(261.05)	1125+21	25.84 LT	I-64 EB	EB/WB	MEDIAN	50	2	HPS	400W/400W	55	REMAIN
NA	3	B	EXIST. 64(261.05)	1133+08	25.91 LT	I-64 EB	EB/WB	MEDIAN	50	2	HPS	400W/400W	55	REMOVE
P5	3	B	EXIST. 64(261.05)	1133+27	25.86 LT	I-64 EB	EB/WB	MEDIAN	50	2	LED	333W/333W	0	PROPOSED
P6	1	1	EXIST. 64(261.05)	1141+22	21.24 LT	I-64 EB	EB/WB	MEDIAN	50	2	LED	333W/333W	0	PROPOSED
NA	1	1	EXIST. 64(261.05)	1141+26	21.05 LT	I-64 EB	EB/WB	MEDIAN	50	2	HPS	400W/400W	55	REMOVE
NA	3	B	EXIST. 64(261.05)	1144+89	26.60 LT	I-64 EB	EB/WB	MEDIAN	50	2	HPS	400W/400W	55	REMAIN
NA	5	5	EXIST. 64(261.05)	1148+66	25.32 LT	I-64 EB	EB/WB	MEDIAN	50	2	HPS	400W/400W	55	REMOVE
P7	5	5	EXIST. 64(261.05)	1148+80	25.32 LT	I-64 EB	EB/WB	MEDIAN	50	2	LED	333W/333W	0	PROPOSED
EX270884	3	B	EXIST. 64(261.05)	1154+24	22.59 LT	I-64 EB	EB/WB	MEDIAN	50	2	HPS	400W/400W	55	REMOVE
P8	3	B	EXIST. 64(261.05)	1154+33	22.66 LT	I-64 EB	EB/WB	MEDIAN	50	2	LED	333W/333W	0	PROPOSED
EX270898	1	A	EXIST. 64(261.39)	1182+83	25.54 LT	I-64 EB	EB/WB	MEDIAN	50	2	HPS	400W/400W	55	REMAIN
P9	5	C	EXIST. 64(261.39)	1193+10	25.43 LT	I-64 EB	EB/WB	MEDIAN	50	2	LED	333W/333W	0	PROPOSED
EX270902	5	C	EXIST. 64(261.39)	1193+37	25.64 LT	I-64 EB	EB/WB	MEDIAN	50	2	HPS	400W/400W	55	REMOVE
P10	3	B	EXIST. 64(261.39)	1204+53	25.65 LT	I-64 EB	EB/WB	MEDIAN	50	2	LED	333W/333W	0	PROPOSED
EX270907	3	B	EXIST. 64(261.39)	1204+75	25.60 LT	I-64 EB	EB/WB	MEDIAN	50	2	HPS	400W/400W	55	REMOVE
EX270651	20	B	EXIST. 64(3)	1206+76	25.47 LT	I-64 EB	EB/WB	MEDIAN	45	2	HPS	400W/400W	55	REMOVE
P11	20	B	EXIST. 64(3)	1206+97	25.35 LT	I-64 EB	EB/WB	MEDIAN	45	2	LED	333W/333W	0	PROPOSED
P12	10	A	EXIST. 64(3)	1235+34	25.85 LT	I-64 EB	EB/WB	MEDIAN	45	2	LED	333W/333W	0	PROPOSED
NA	10	A	EXIST. 64(3)	1235+44	25.91 LT	I-64 EB	EB/WB	MEDIAN	45	2	HPS	400W/400W	55	REMOVE
EX270687	2	A	EXIST. 64(1)	1282+43	24.62 LT	I-64 EB	EB/WB	MEDIAN	45	2	HPS	400W/400W	55	REMAIN
P13	2	A	EXIST. 64(1)	1288+91	24.56 LT	I-64 EB	EB/WB	MEDIAN	45	2	LED	333W/333W	0	PROPOSED
EX270690	2	A	EXIST. 64(1)	1289+17	24.41 LT	I-64 EB	EB/WB	MEDIAN	45	2	HPS	400W/400W	55	REMOVE
EX270693	4	B	EXIST. 64(2)	1295+41	24.27 LT	I-64 EB	EB/WB	MEDIAN	45	2	HPS	400W/400W	55	REMAIN
EX270695	2	A	EXIST. 64(2)	1299+46	24.29 LT	I-64 EB	EB/WB	MEDIAN	45	2	HPS	400W/400W	55	REMAIN
EX270699	4	B	EXIST. 64(2)	1308+24	24.51 LT	I-64 EB	EB/WB	MEDIAN	45	2	HPS	400W/400W	55	REMAIN
EX270707	10	B	EXIST. 64(2)	1327+82	25.70 LT	I-64 EB	EB/WB	MEDIAN	45	2	HPS	400W/400W	55	REMAIN
EX270711	18	C	EXIST. 64(2)	1336+26	26.22 LT	I-64 EB	EB/WB	MEDIAN	45	2	HPS	400W/400W	55	REMAIN
P14	9	B	EXIST. 64(3)	2354+17	61.85 LT	I-64 EB	WB	STANDARD	45	1	LED	333W	0	PROPOSED
NA	9	B	EXIST. 64(3)	2354+20	58.25 LT	I-64 EB	WB	STANDARD	45	1	HPS	400W	55	REMOVE
EX270399	6	C	EXIST. 64(4)	2377+10	57.76 LT	I-64 EB	WB	STANDARD	45	1	HPS	400W	55	REMAIN
P15	7	A	EXIST. 64(4)	1391+50	53.76 RT	I-64 EB	EB	STANDARD	45	1	LED	333W	0	PROPOSED
EX270231	7	A	EXIST. 64(4)	1391+55	53.68 RT	I-64 EB	EB	STANDARD	45	1	HPS	400W	55	REMOVE
EX270398	4	B	EXIST. 64(4)	2380+07	83.96 LT	I-64 WB	WB	STANDARD	45	1	HPS	400W	55	REMOVE
P16	4	B	EXIST. 64(4)	2380+15	83.99 LT	I-64 WB	WB	STANDARD	45	1	LED	333W	0	PROPOSED
EX270397	2	A	EXIST. 64(4)	2382+66	69.70 LT	I-64 WB	WB	STANDARD	45	1	HPS	400W	55	REMOVE
P17	2	A	EXIST. 64(4)	2382+79	68.22 LT	I-64 WB	WB	STANDARD	45	1	LED	333W	0	PROPOSED

NOTES:
1) ALL LIGHT POLE LOCATIONS ARE APPROXIMATE.
CONTRACTOR SHALL FIELD VERIFY ALL LIGHT POLES.

P.H. PLANS
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PROJECT MANAGER *Erin Foley, P.E.* (757) 222-1500
SURVEYED BY, DATE *Ricoe Associates, Inc.* (757) 306-4260
DESIGN BY *HDR, Engineer Inc.*
SUBSURFACE UTILITY BY, DATE *N/A*

LIGHT POLE SCHEDULE

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	55(2A)2
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT				
HDR Engineering, Inc. Virginia Beach, Virginia TRAFFIC ENGINEER				

POLE NO.	CKT.	PHASE	CONTROL CENTER	STATION	OFFSET (FT)	BASELINE	DIRECTION	MOUNTING TYPE	MOUNTING HEIGHT (FT)	LUMINAIRE QUANTITY	LUMINAIRE TYPE	LUMINAIRE WATTAGE (W)	LUMINAIRE TILT ANGLE (DEGREES)	DESIGNATION
EX270232	5	C	EXIST. 64(4)	1394+67	54.40 RT	I-64 EB	EB	STANDARD	45	1	HPS	400W	55	REMOVE
P19	5	C	EXIST. 64(4)	1394+74	55.55 RT	I-64 EB	EB	STANDARD	45	1	LED	333W	0	PROPOSED
EX270396	6	C	EXIST. 64(4)	2385+69	65.11 LT	I-64 WB	WB	STANDARD	45	1	HPS	400W	55	REMOVE
P19	6	C	EXIST. 64(4)	2385+68	70.31 LT	I-64 WB	WB	STANDARD	45	1	LED	333W	0	PROPOSED
EX270233	7	A	EXIST. 64(4)	1398+47	44.36 RT	I-64 EB	EB	STANDARD	45	1	HPS	400W	55	REMOVE
P20	7	A	EXIST. 64(4)	1398+52	44.41 RT	I-64 EB	EB	STANDARD	45	1	LED	333W	0	PROPOSED
EX270395	4	B	EXIST. 64(4)	2388+27	59.06 LT	I-64 WB	WB	STANDARD	45	1	HPS	400W	55	REMAIN

UNDERDECK LUMINAIRE SCHEDULE

LUMINAIRE NO.	CKT.	PHASE	CONTROL CENTER	STATION	OFFSET (FT)	BASELINE	DIRECTION	MOUNTING TYPE	MOUNTING HEIGHT (FT)	LUMINAIRE TYPE	LUMINAIRE WATTAGE (W)	DESIGNATION
UD1	7	A	EXIST. 64(4)	1395+05	29.90 RT	I-64 EB	SB	WALL MOUNT	15.5	LED	67W	PROPOSED
UD2	3	B	EXIST. 64(4)	1395+19	8.01 LT	I-64 EB	SB	WALL MOUNT	15.5	LED	67W	PROPOSED
UD3	5	C	EXIST. 64(4)	2384+02	17.68 LT	I-64 WB	SB	WALL MOUNT	15.5	LED	67W	PROPOSED
UD4	7	A	EXIST. 64(4)	2384+12	45.45 LT	I-64 WB	SB	WALL MOUNT	15.5	LED	67W	PROPOSED
UD5	5	C	EXIST. 64(4)	1396+99	33.75 RT	I-64 EB	NB	WALL MOUNT	15.5	LED	67W	PROPOSED
UD6	7	A	EXIST. 64(4)	1396+12	0.00 LT	I-64 EB	NB	WALL MOUNT	15.5	LED	67W	PROPOSED
UD7	3	B	EXIST. 64(4)	2384+93	4.58 LT	I-64 WB	NB	WALL MOUNT	15.5	LED	67W	PROPOSED
UD8	5	C	EXIST. 64(4)	2385+03	31.10 LT	I-64 WB	NB	WALL MOUNT	15.5	LED	67W	PROPOSED

NOTES:
1) ALL LIGHT POLE LOCATIONS ARE APPROXIMATE.
CONTRACTOR SHALL FIELD VERIFY ALL LIGHT POLES.

P.H. PLANS
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PROJECT MANAGER *Erin Foley, P.E.* (757) 222-1500
SURVEYED BY, DATE *Rice Associates, Inc.* (757) 306-4260
DESIGN BY *HDR Engineering, Inc.*
SUBSURFACE UTILITY BY, DATE *N/A*

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	55(2B)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER

LIGHTING TYPICAL POLE DETAILS

GENERAL NOTES

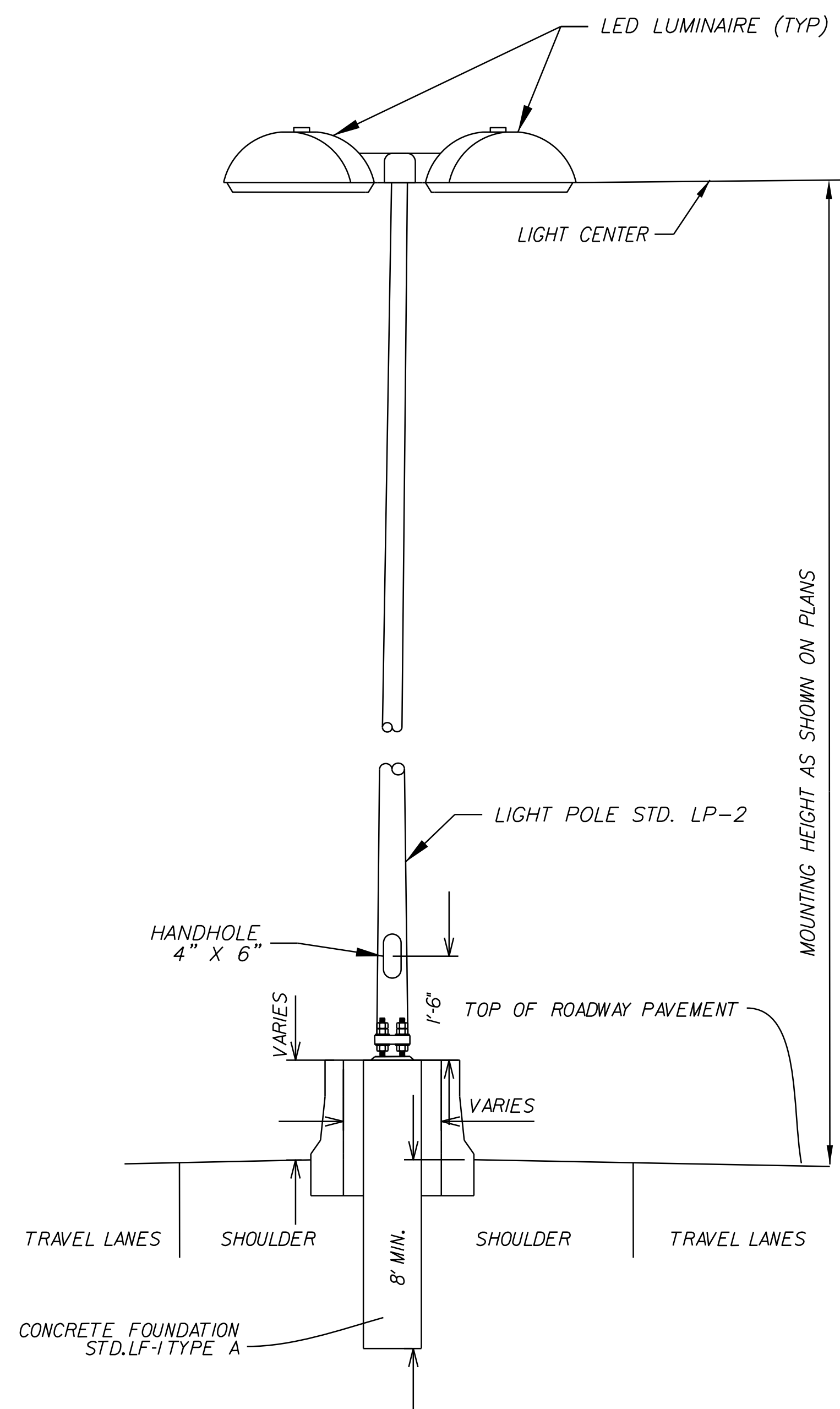
SPECIFICATIONS

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, 6th Edition, 2013 with 2015 Interims and VDOT Guidelines (IIM-S&B-76.3 & IIM-S&B-90.2)

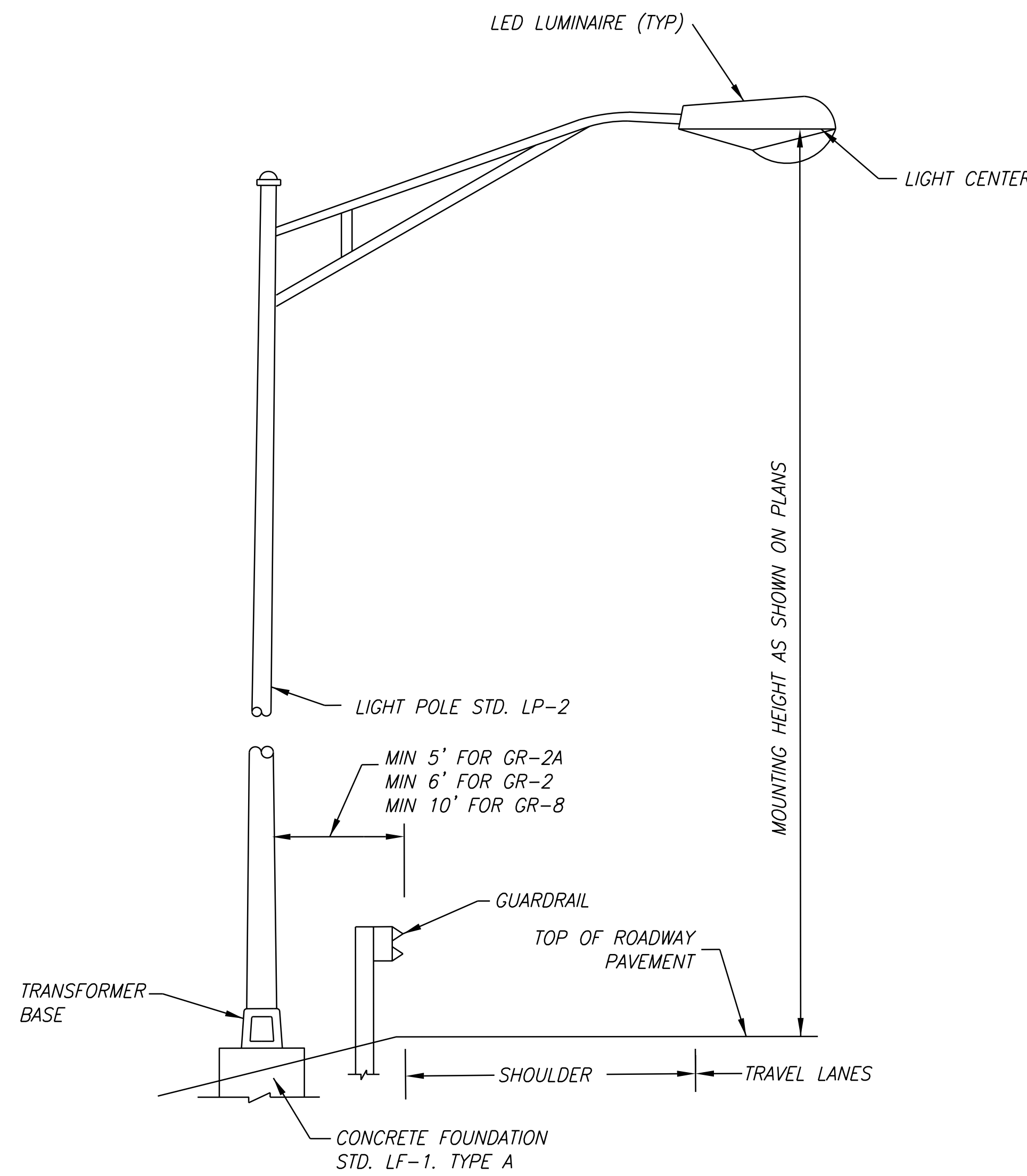
Loading: Wind Speed - 90 MPH based on 25 year mean recurrence Interval per VDOT IIM-S&B-90.2 Appendix A

Anchors: Anchor bolts shall be cast-in-place or cast-in-place threaded inserts shall be used. Other proprietary cast-in-place anchorage systems may be acceptable pending VDOT approval.

Mounting height shall be as indicated in the plans. The Contractor shall be responsible for field measuring and furnishing and installing the necessary pole length to achieve the require mounting height



MEDIAN MOUNTED LIGHTING STANDARD - DOUBLE
NOT TO SCALE



OFFSET LIGHTING STANDARD-SINGLE
NOT TO SCALE

P.H. PLANS

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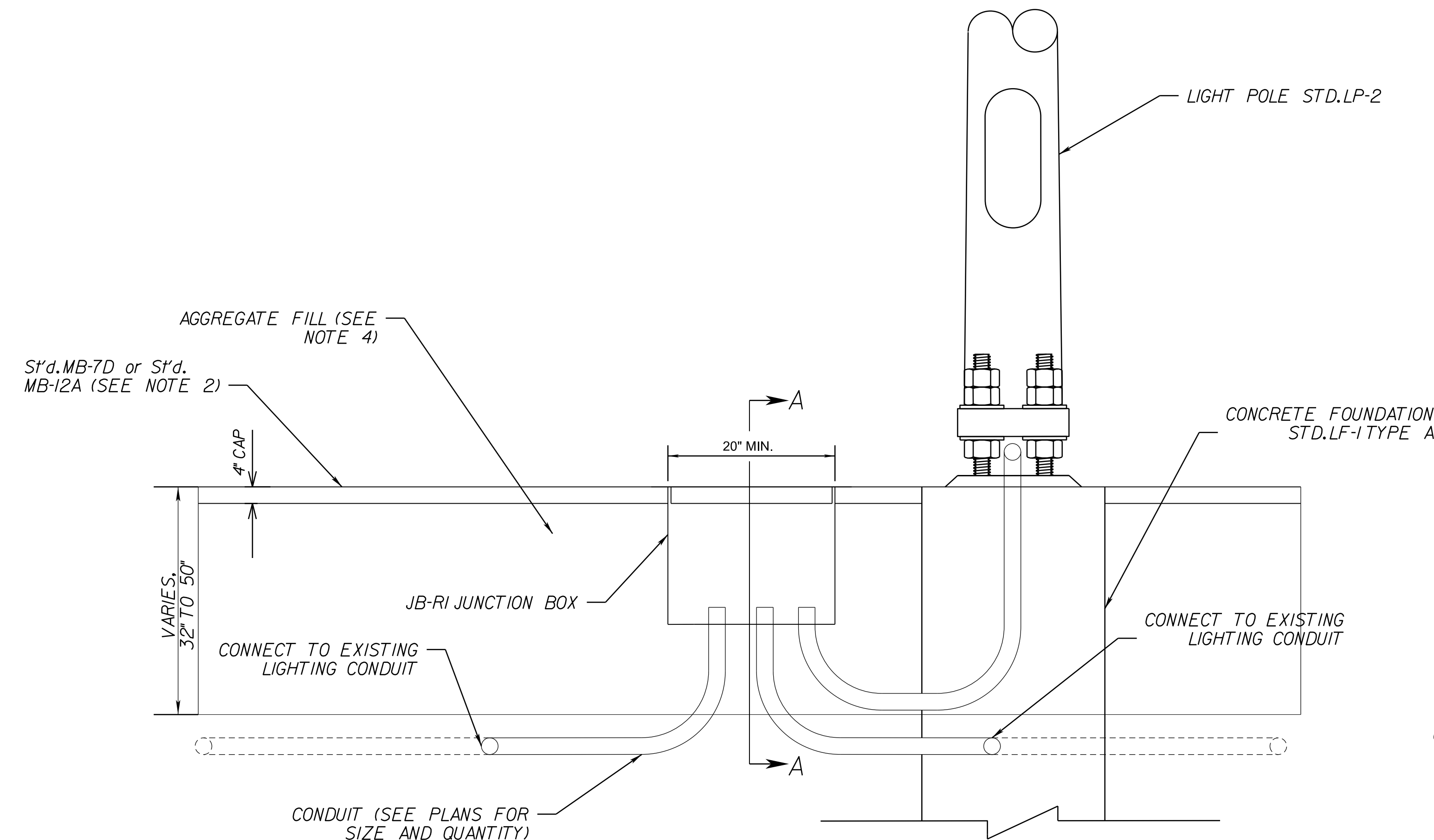
PROJECT MANAGER *Erin Foley, P.E.* (757) 222-1500
SURVEYED BY, DATE *Rice Associates, Inc.* (757) 306-4260
DESIGN BY *HDR Engineering, Inc.*
SUBSURFACE UTILITY BY, DATE *N/A*

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	55(2C)

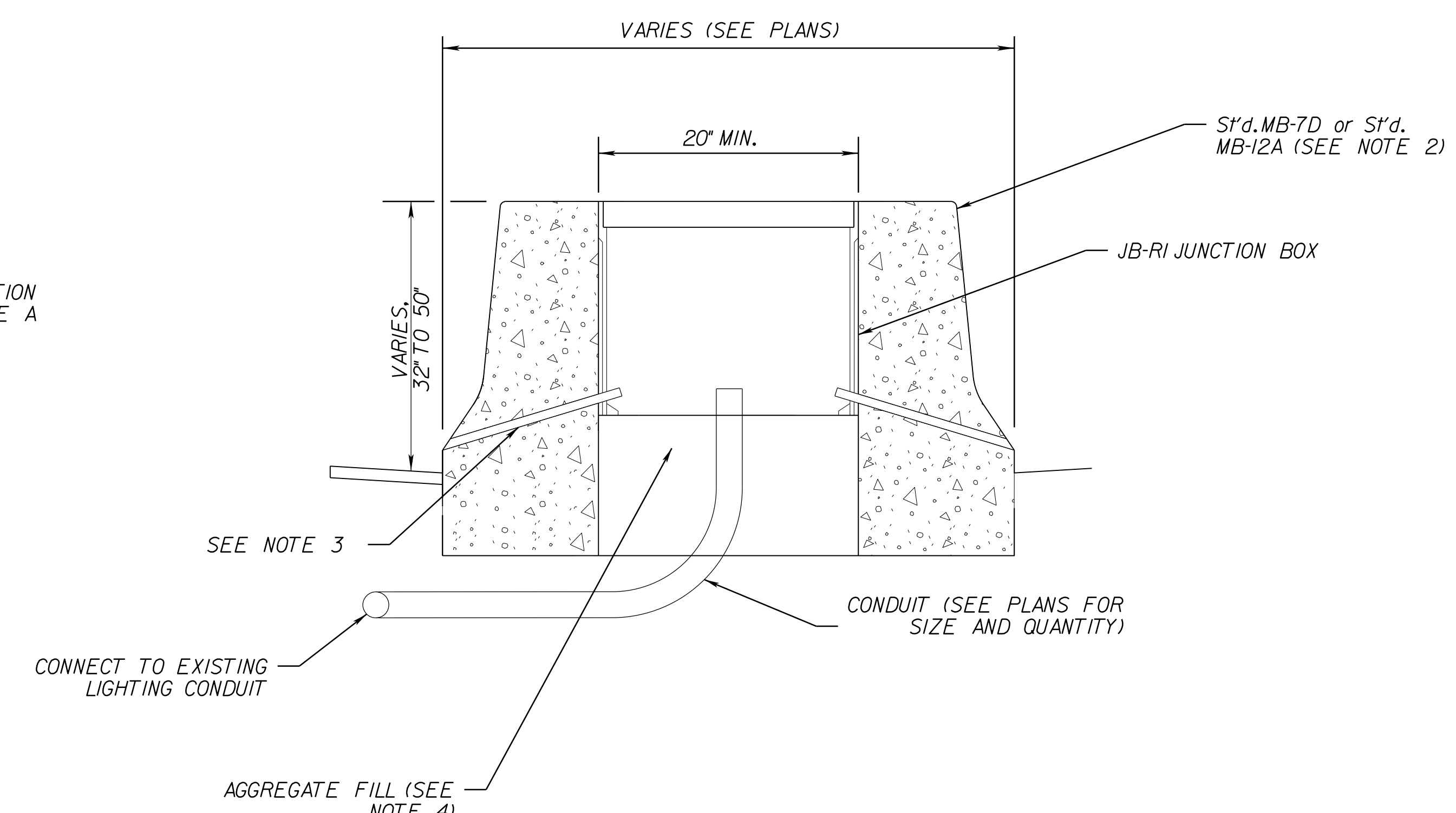
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Virginia Beach, Virginia
TRAFFIC ENGINEER

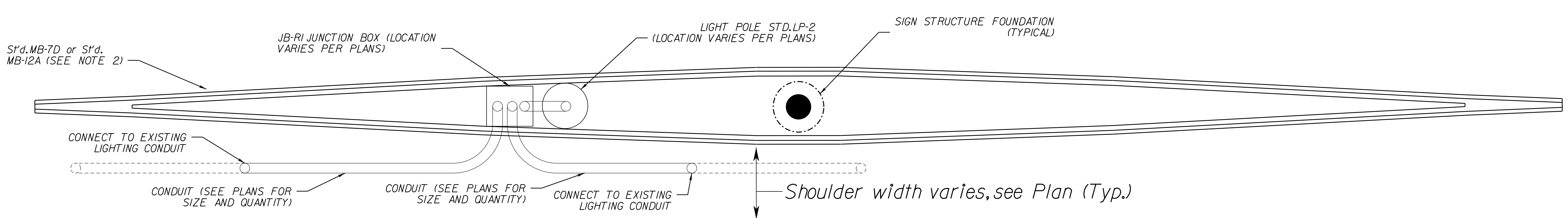
LIGHTING MEDIAN BARRIER WALL DETAILS



MEDIAN BARRIER LIGHTING ELEVATION VIEW
N.T.S.



MEDIAN BARRIER LIGHTING PULL BOX (SECTION A-A)
N.T.S.



MEDIAN BARRIER LIGHTING - PLAN VIEW
N.T.S.

- NOTES:
1. THE CONTRACTOR SHALL INSTALL MEDIAN BARRIER LIGHTING POLE AND JUNCTION BOX IN ACCORDANCE WITH THESE PLANS AND VDOT STANDARDS AND SPECIFICATIONS
 2. BARRIER TYPE IS SITE SPECIFIC, SEE PLANS
 3. PROVIDE 1" PVC CONDUIT DRAIN. TERMINATE THE DRAIN PIPE 6" ABOVE GUTTER LINE WHICH AT A MINIMUM ALLOWS POSITIVE DRAINAGE FROM THE JUNCTION BOX. PROVIDE TWO (2) 1" PVC CONDUITS PER JUNCTION BOX LOCATE EACH CONDUIT DRAIN IN LOW POINT OF THE JUNCTION BOX.
 4. SEE VDOT ROAD AND BRIDGE STANDARDS SECTION 500 FOR AGGREGATE FILL REQUIREMENTS

P.H. PLANS

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NOT TO SCALE	PROJECT 0064-121-418	SHEET NO. 55(2C)
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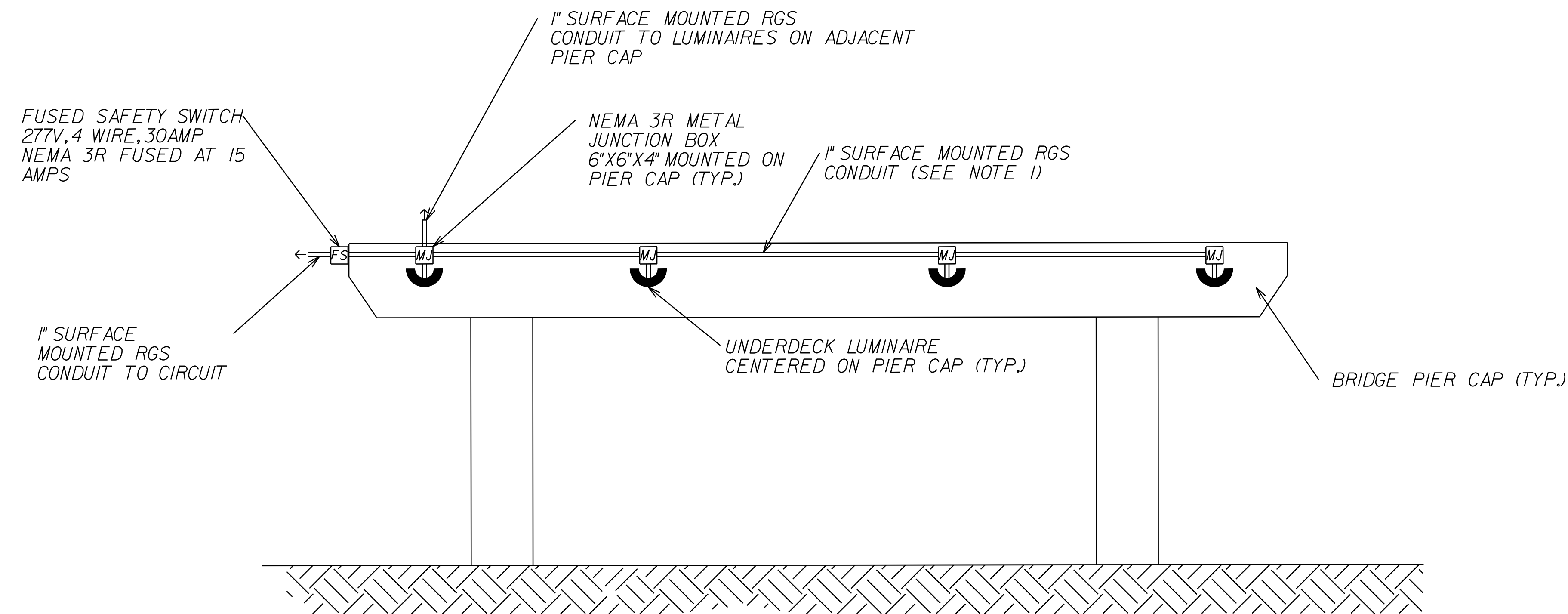
PROJECT MANAGER: Erin Foley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: N/A

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	55(2D)

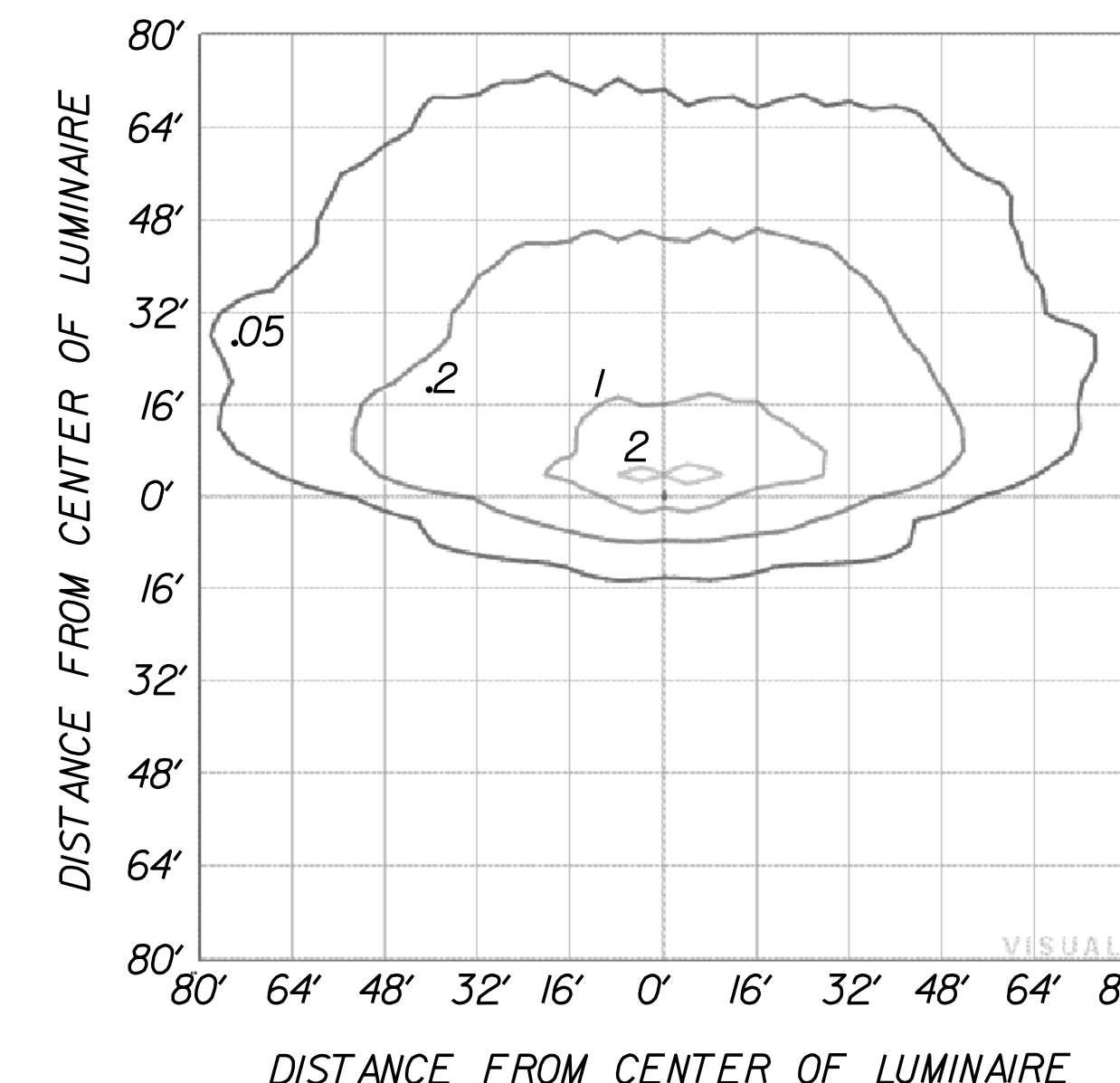
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HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER

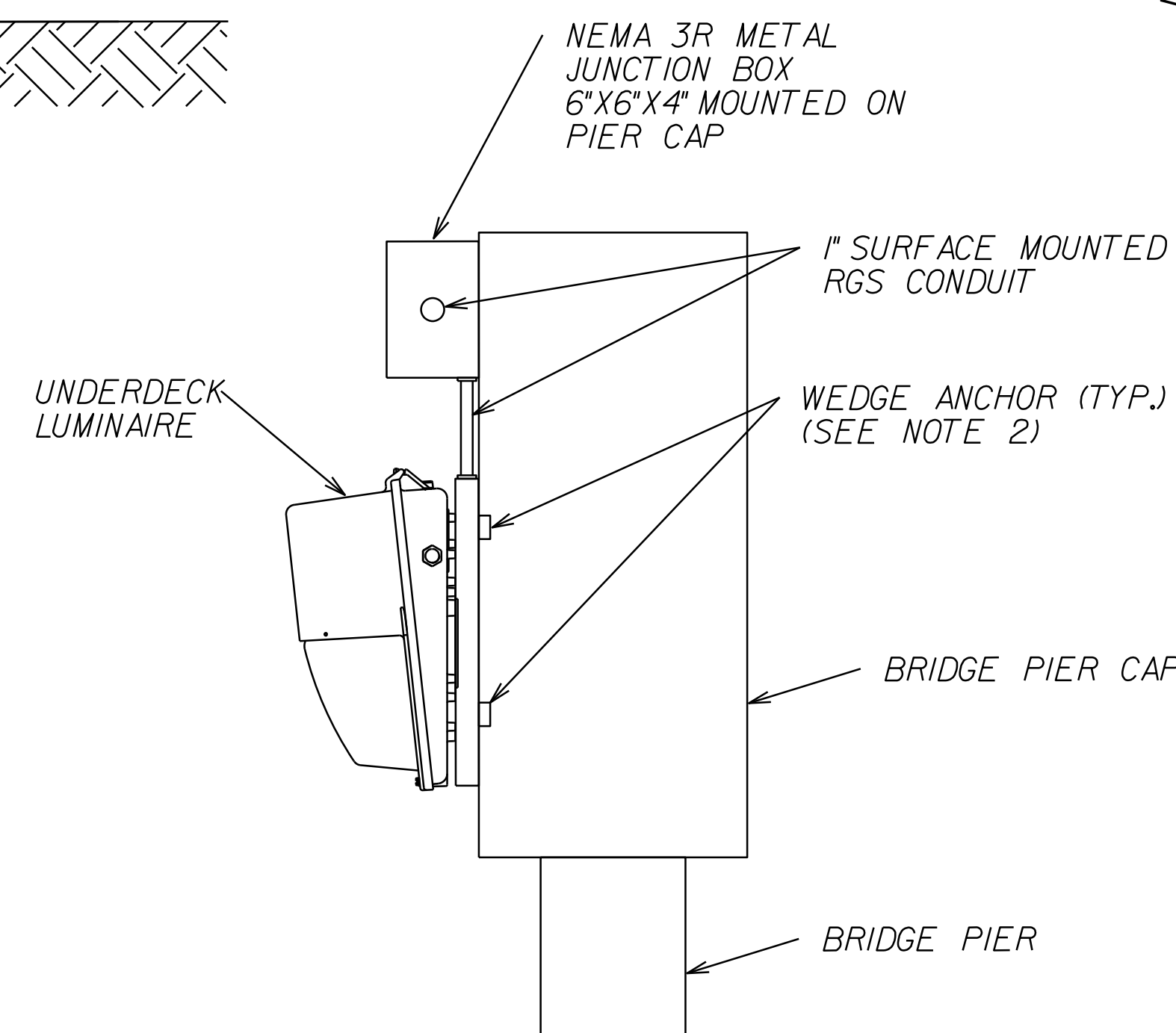
UNDERDECK LIGHTING DETAILS



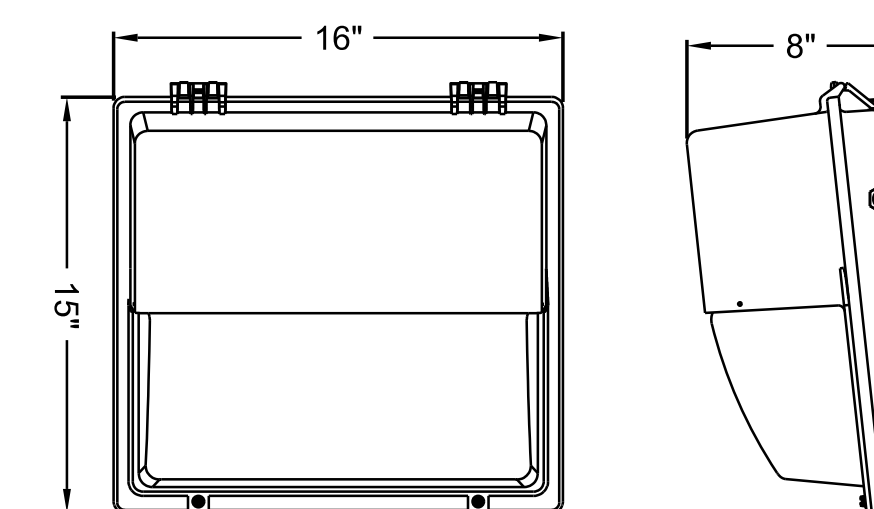
UNDERDECK MOUNTING DETAIL
TYPICAL ELEVATION VIEW
N.T.S.



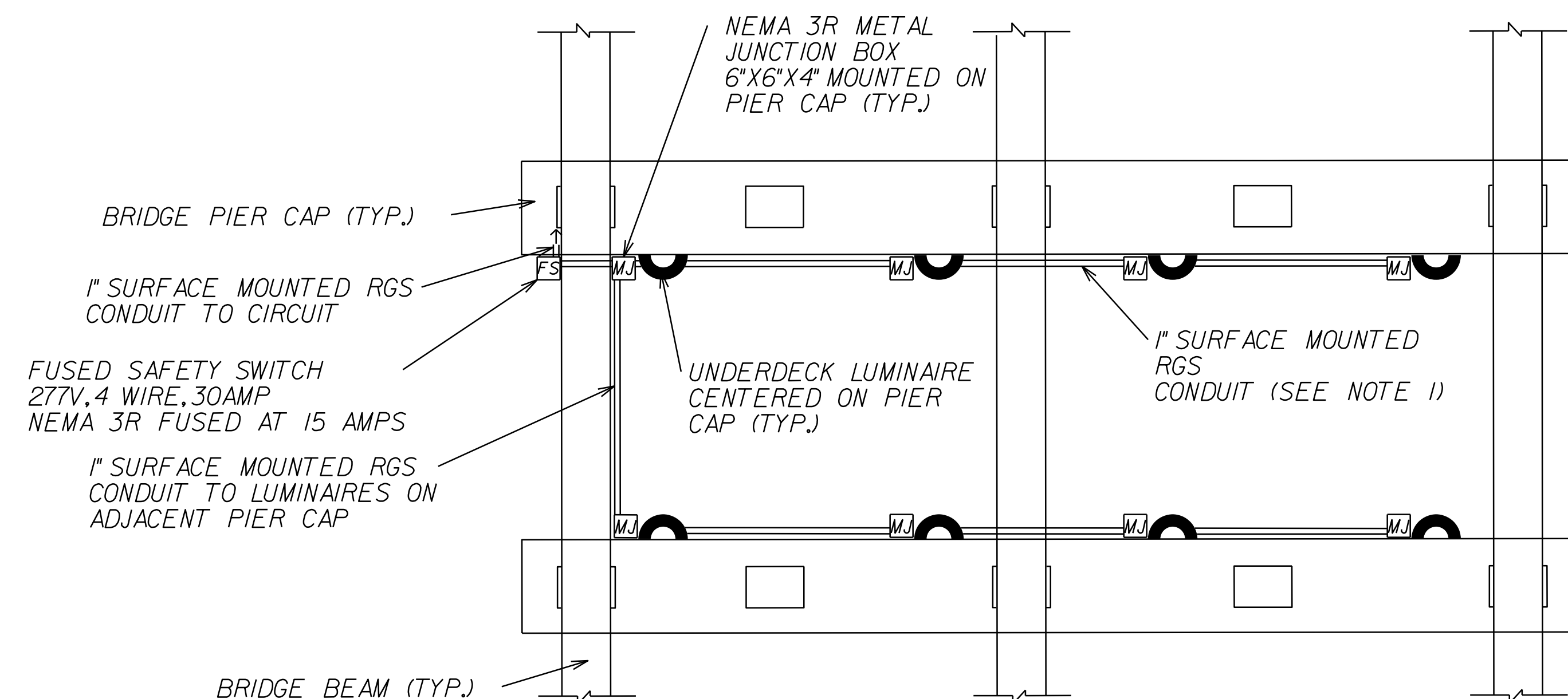
ISOFOOTCANDLE DIAGRAM (SEE NOTE 3)
67-WATT LED UNDERDECK LUMINAIRE
15.5 FT MOUNTING HEIGHT
N.T.S.



UNDERDECK LUMINAIRE 67W LED
IES TYPE III OR IV, VERY SHORT, NON-CUTOFF
6,506 LUMENS
N.T.S.



TYPICAL UNDERDECK LUMINAIRE 67W LED
IES TYPE III OR IV, VERY SHORT, NON-CUTOFF
6,506 LUMENS
N.T.S.



UNDERDECK MOUNTING DETAIL
TYPICAL PLAN VIEW
N.T.S.

- NOTES:
- CONDUIT SHALL BE STRAPPED 10' C-C AND WITHIN 1' OF THE CONDUIT TERMINI.
 - REQUIRED PER LUMINAIRE SIZE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS
 - ISOFOOT CANDLE DIAGRAMS REPRESENT THE LUMINAIRE ILLUMINATION PATTERN WITH A LIGHT LOSS FACTOR OF 0.855

P.H. PLANS
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PROJECT MANAGER *Erin Foley, P.E.* (757) 222-1500
SURVEYED BY, DATE *Rice Associates, Inc.* (757) 306-4260
DESIGN BY *HDR Engineering, Inc.*
SUBSURFACE UTILITY BY, DATE *N/A*

UNDERDECK PANELBOARD SCHEDULE

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	55(2E)

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HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER

PANELBOARD SCHEDULE																
PANEL: EXISTING LIGHTING CONTROL CENTER 64(4), STA. 2385+81 WB, 111.71' LT																
LOAD DESCRIPTION	LOAD AMPS			BRKR AMPS	WIRE (AWG)	CKT NO	A B C			CKT NO	WIRE (AWG)	BRKR AMPS	LOAD AMPS			LOAD DESCRIPTION
	A	B	C				A	B	C				A	B	C	
PHOTO-CONTROL	0.7			15	EX-#8	1				2	EX-#1/0	30	13.4			EX.LTG-WBL
EX.LTG-EBLUD		15.7		30	EX-#1/0	3				4	EX-#1/0	30	14.2			EX.LTG-WBL
EX.LTG-EBLUD			16.5	30	EX-#1/0	5				6	EX-#1/0	30		13.4		EX.LTG-WBL
EX.LTG-EBLUD	16.3			30	EX-#1/0	7				8						
						9				10						
						11				12						
						13				14						
						15				16						
						17				18						
						19				20						
						21				22						
						23				24						
						25				26						
						27				28						
						29				30						
						31				32						
						33				34						
						35				36						
						37				38						
						39				40						
						41				42						

BREAKER MINIMUM INTERRUPTING CAPACITY 14,000 AMPS SYMM.

MAINS: EX. 200A MAIN CIRCUIT BREAKER
VOLTAGE: 480Y/277, 3 PHASE, 4 WIRE, SN
MOUNTING: CONTROL CENTER LESS BOX

NOTES:
1. PROPOSED UNDERDECK LUMINAIRES SHALL BE CONNECTED TO EXISTING CIRCUITS 3,5, AND 7. EXISTING CIRCUIT BREAKERS MAY REMAIN.

P.H. PLANS

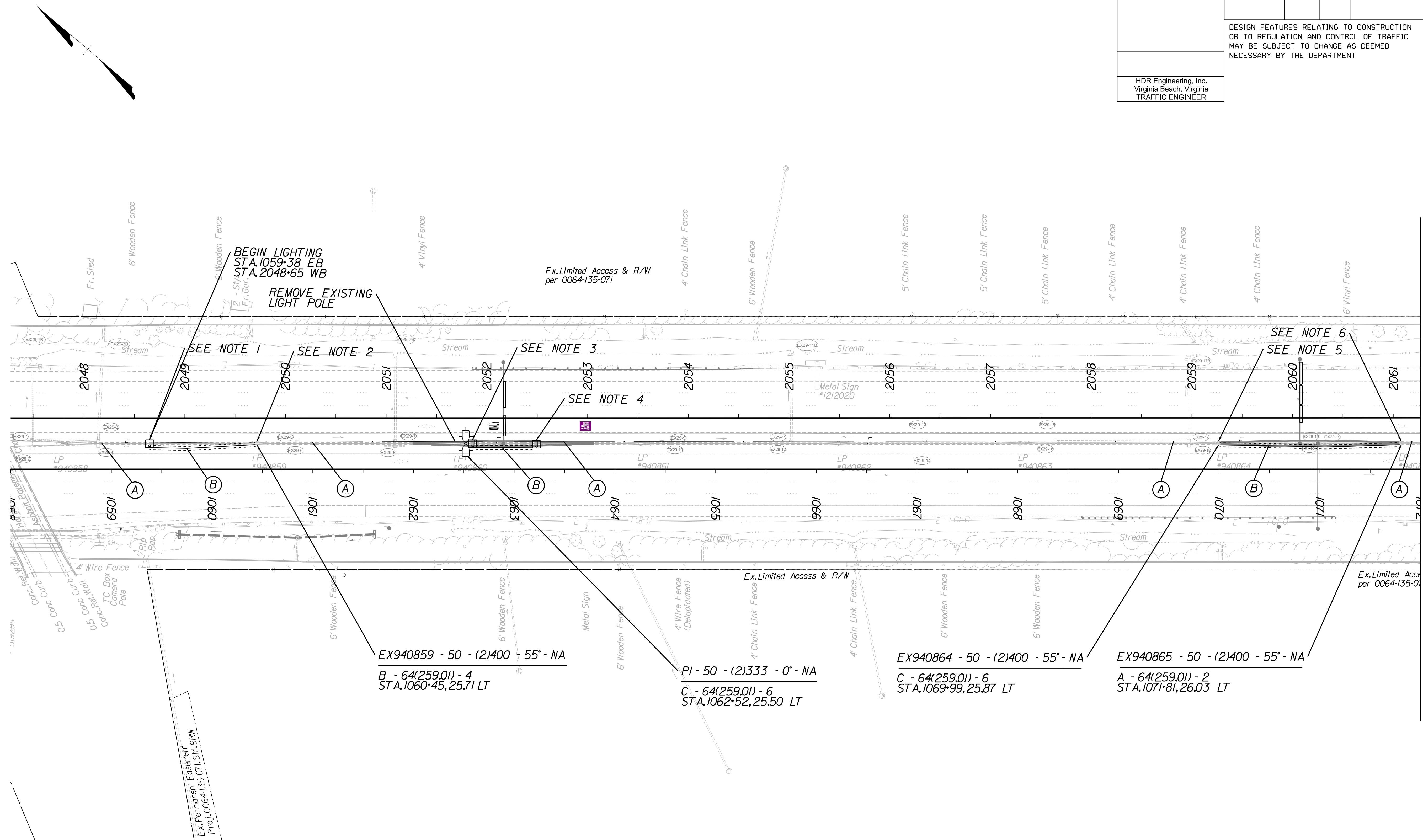
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PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: MZA

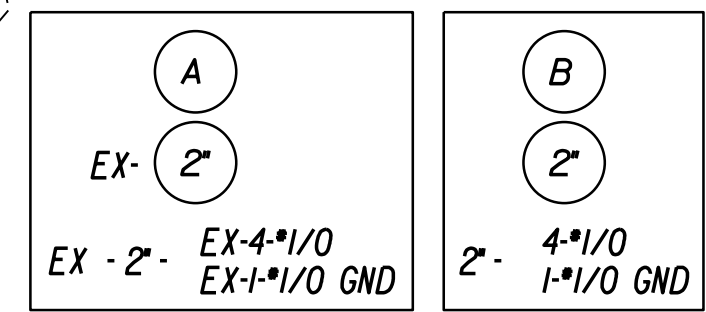
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	55(29)

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Virginia Beach, Virginia
TRAFFIC ENGINEER

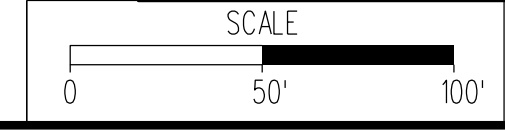


- NOTES:
- 1) SEE SPLICE DETAIL "A"
 - 2) SEE SPLICE DETAIL "B"
 - 3) SEE SPLICE DETAIL "C"
 - 4) SEE SPLICE DETAIL "D"
 - 5) SEE SPLICE DETAIL "E"
 - 6) SEE SPLICE DETAIL "F"



P.H. PLANS

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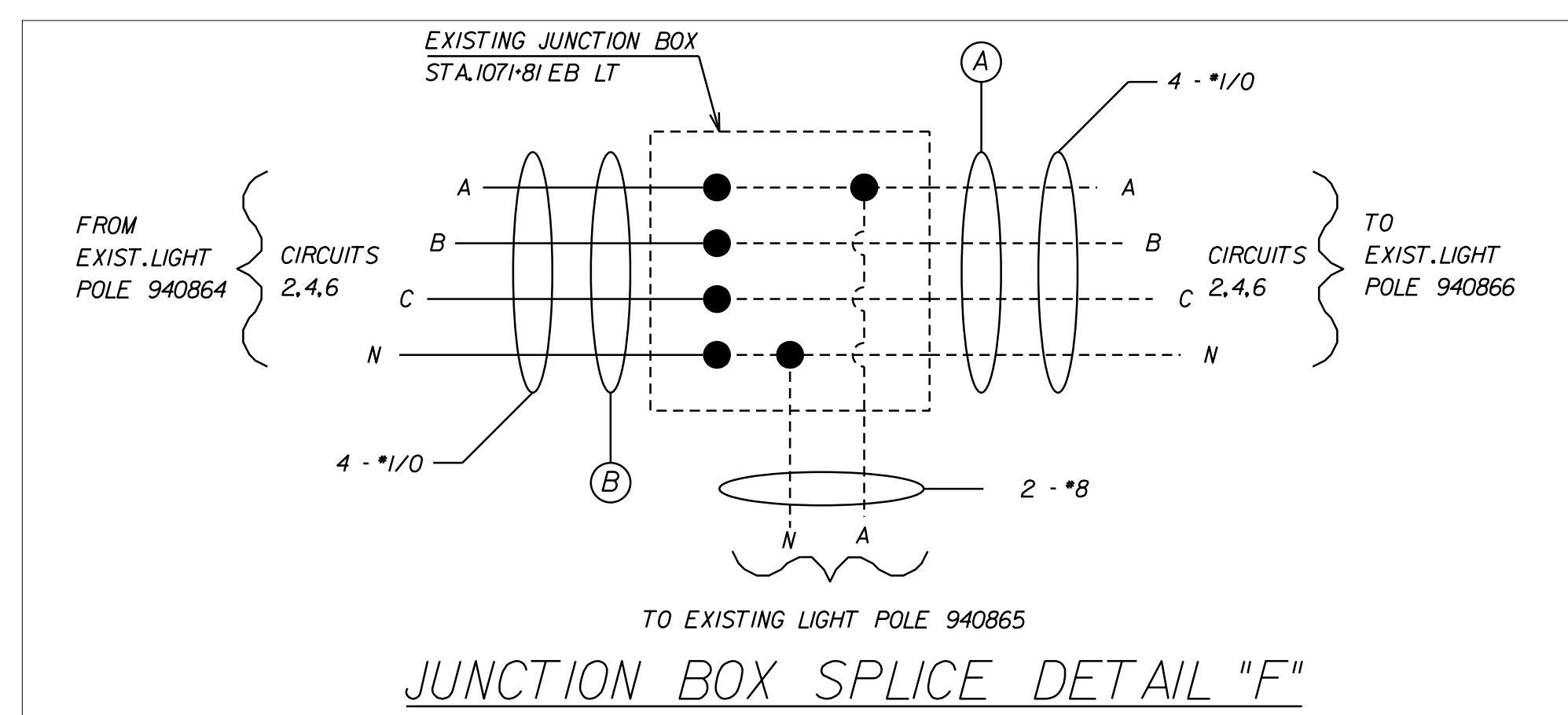
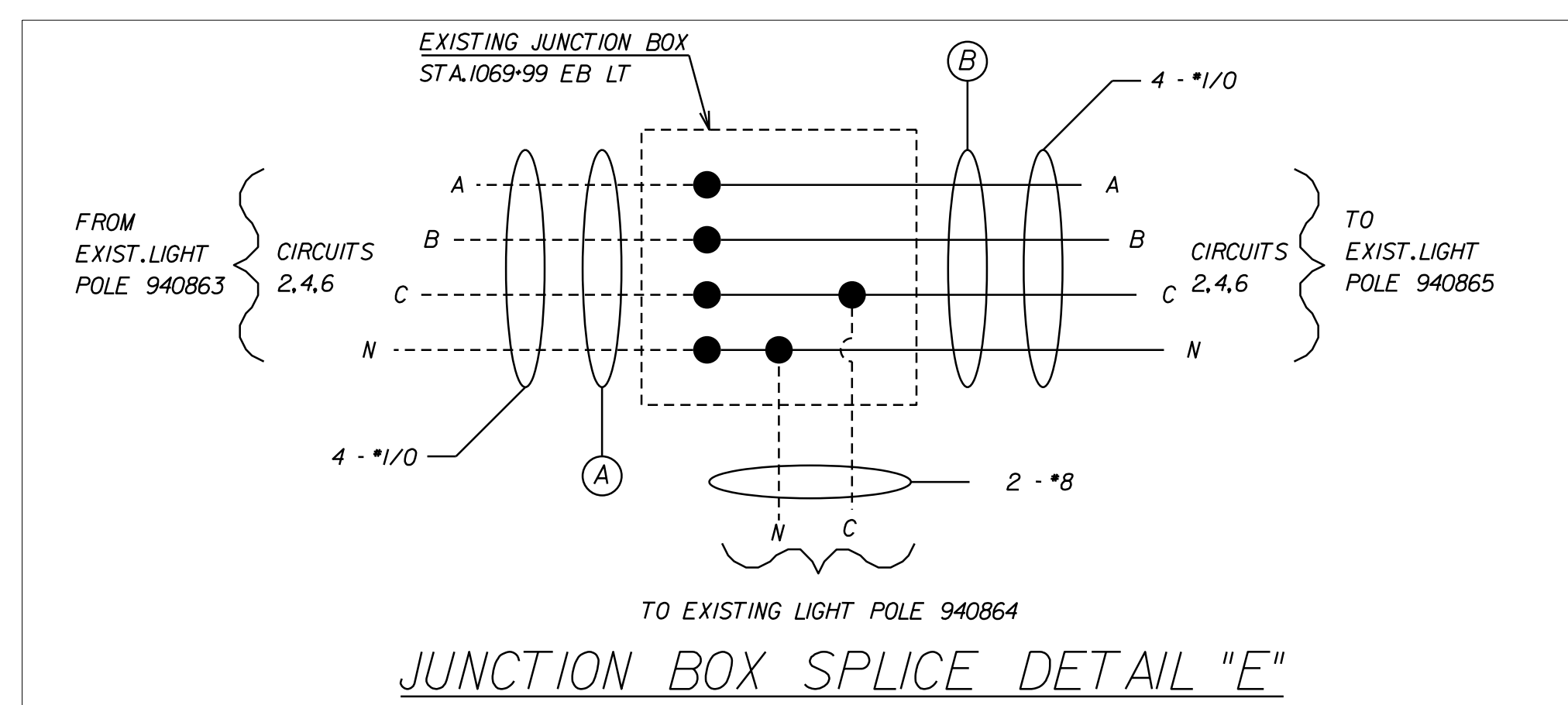
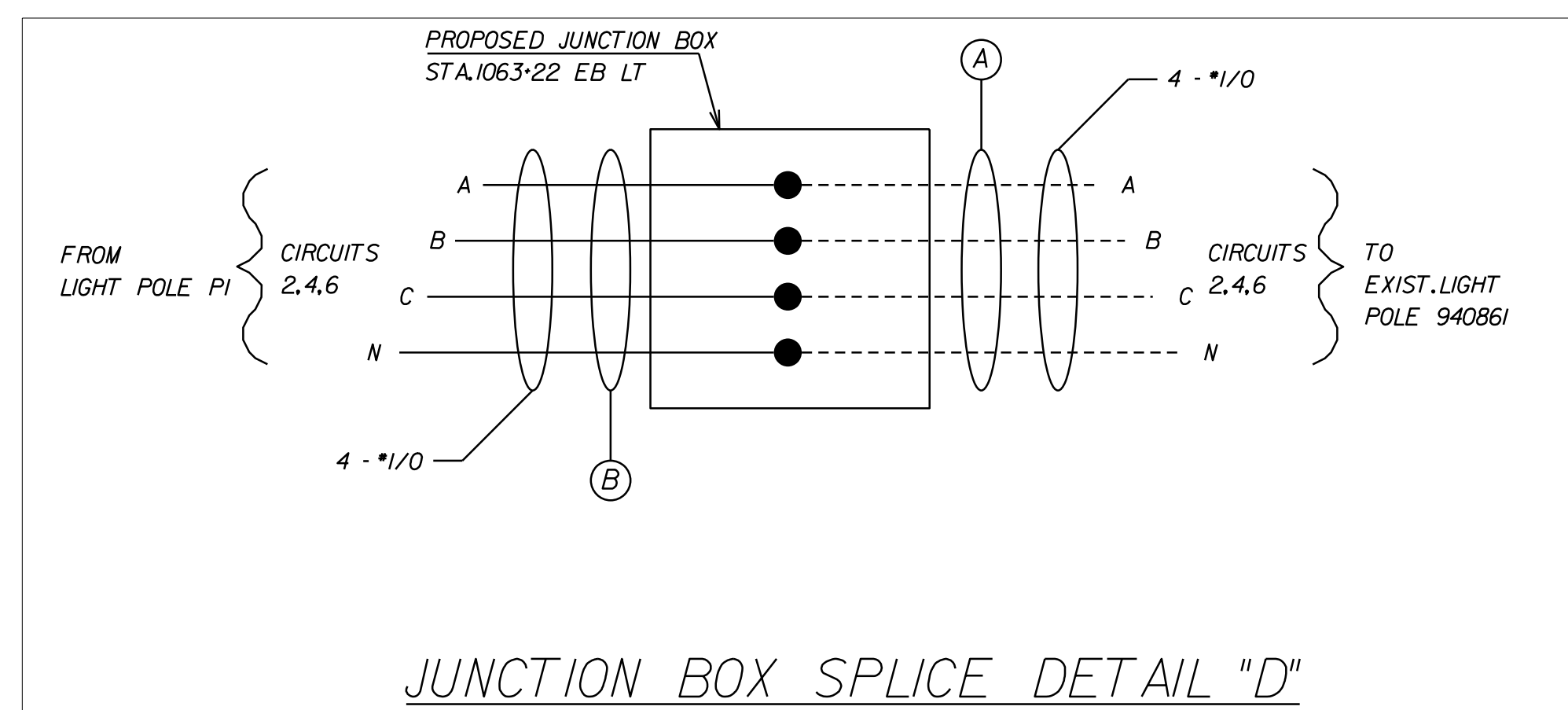
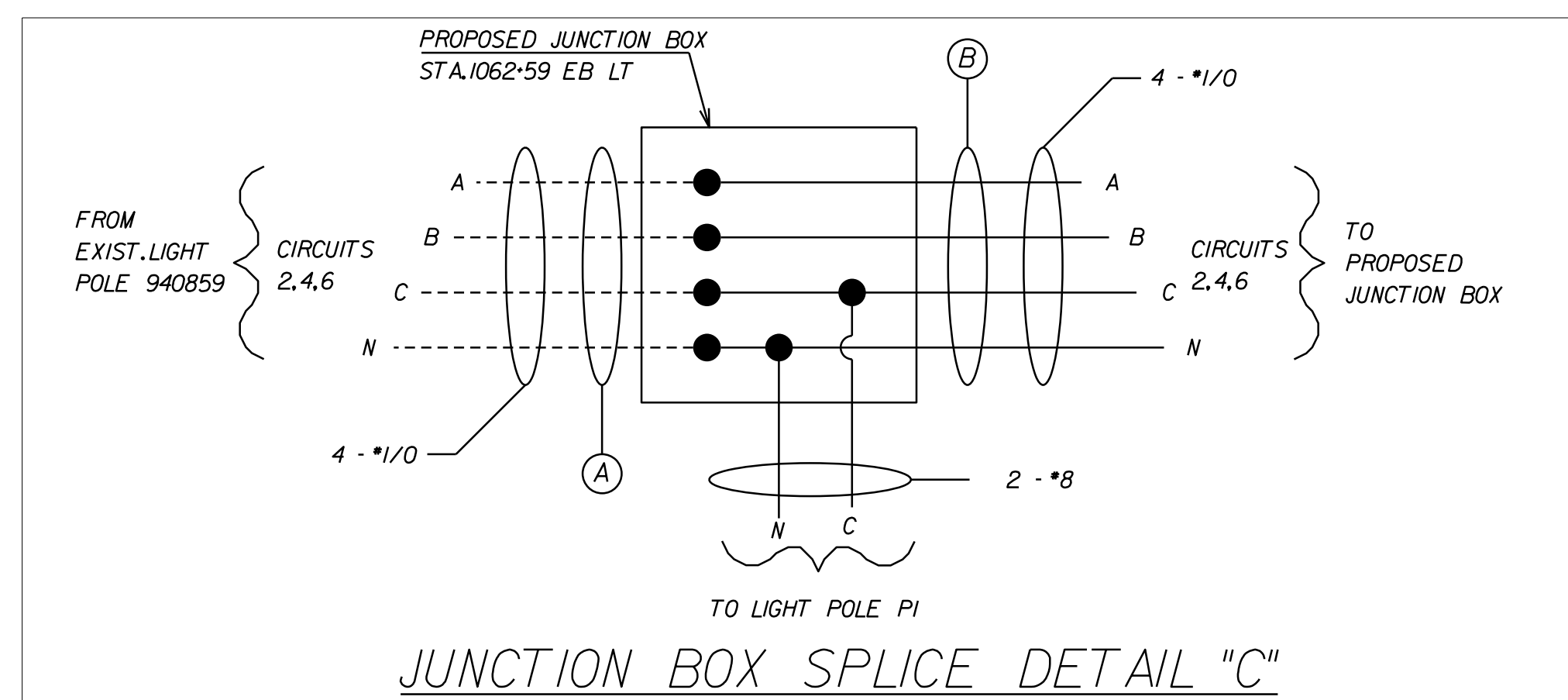
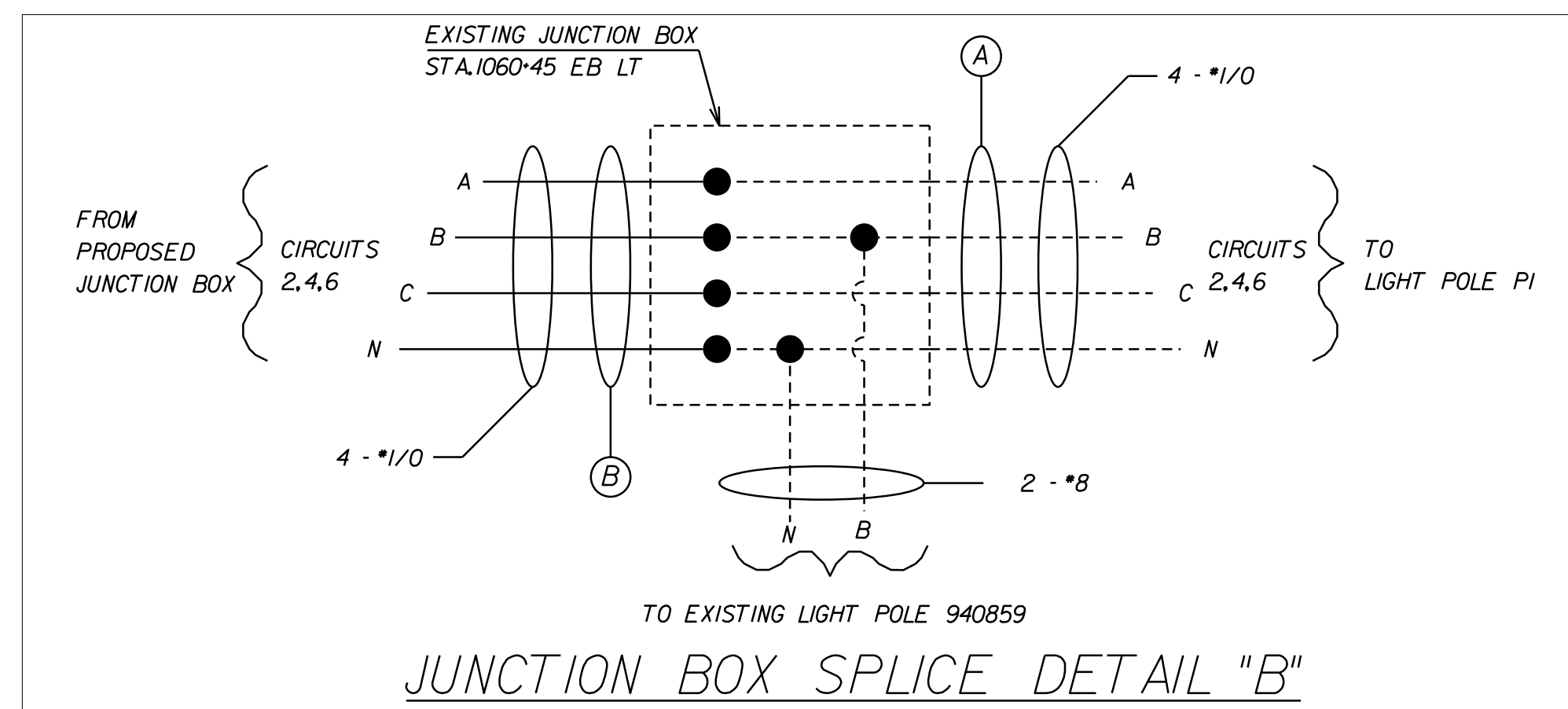
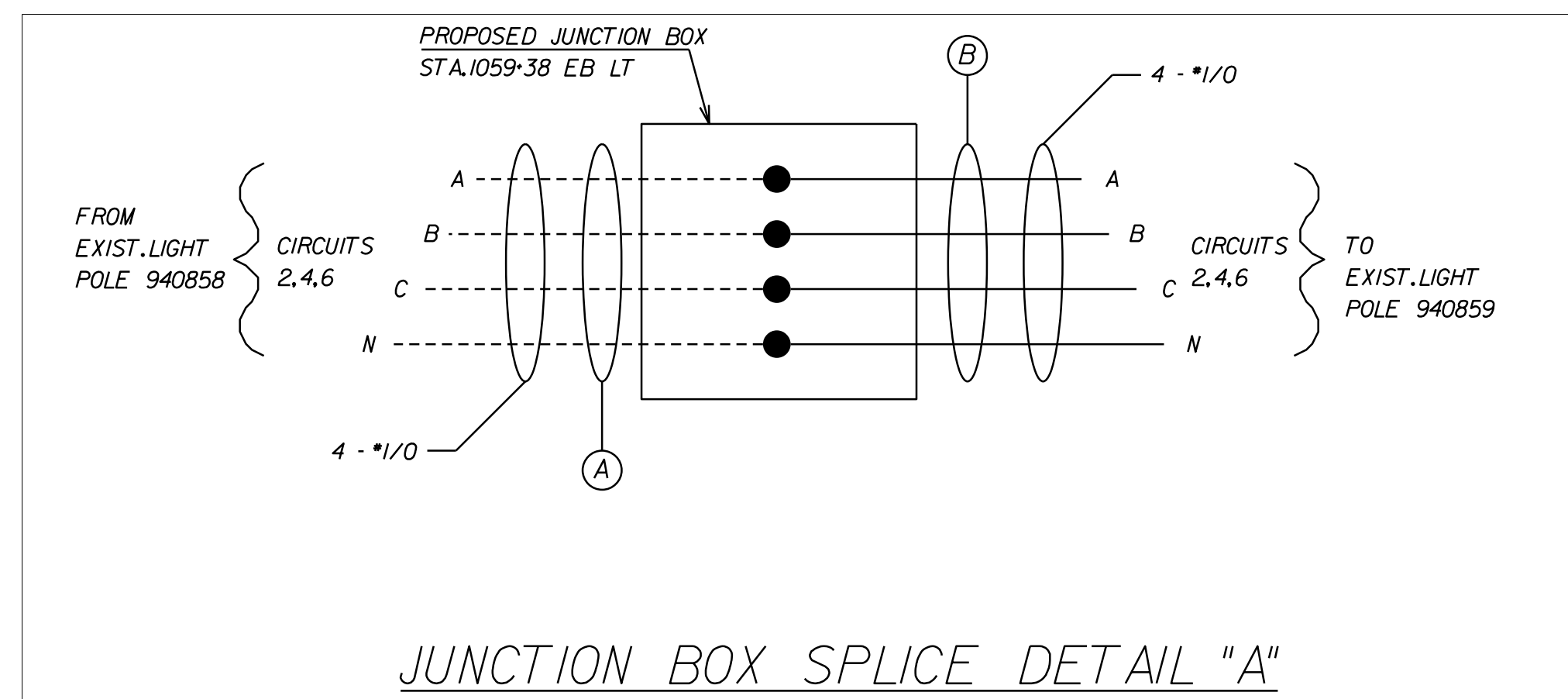
Matchline Sta. 1072+00 See Sheet 55(30)

PROJECT MANAGER: Erin Eoley, P.E. (757) 222-1500
 SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
 DESIGN BY: HDR Engineering, Inc.
 SUBSURFACE UTILITY BY, DATE: MZA

REVISED	STATE	ROUTE	STATE	SHEET NO.
			PROJECT	
	VA.	64	0064-121-418, P101	55(29)A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER



P.H. PLANS

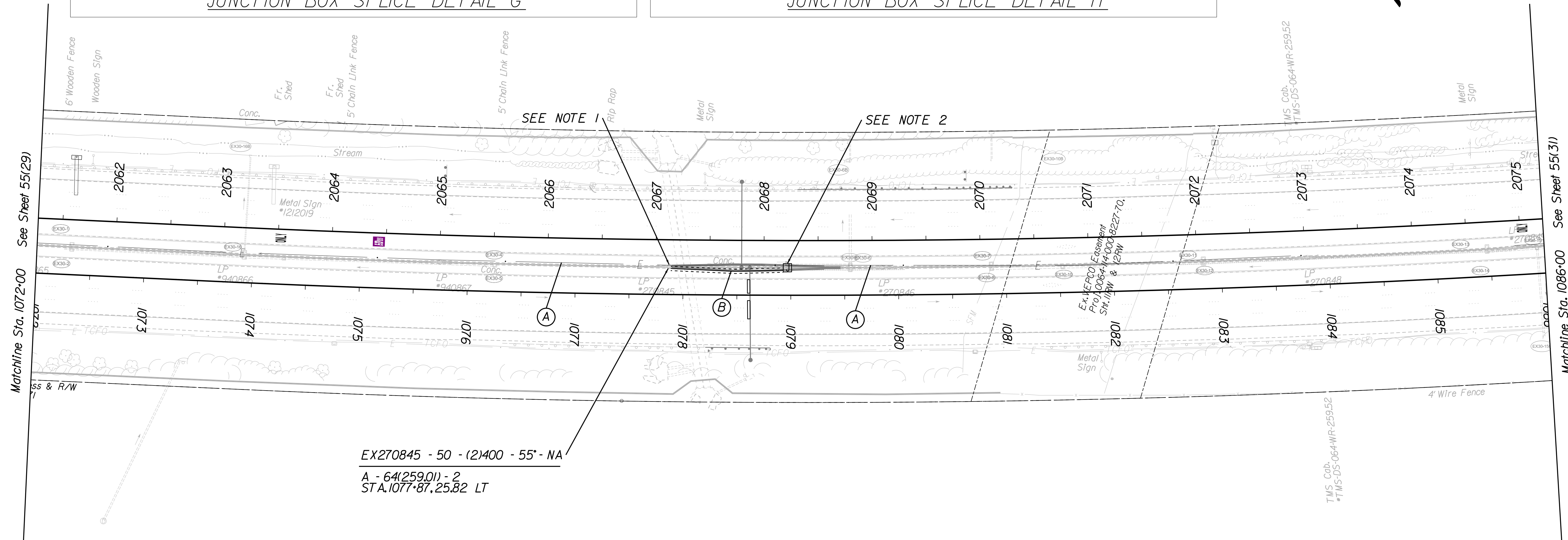
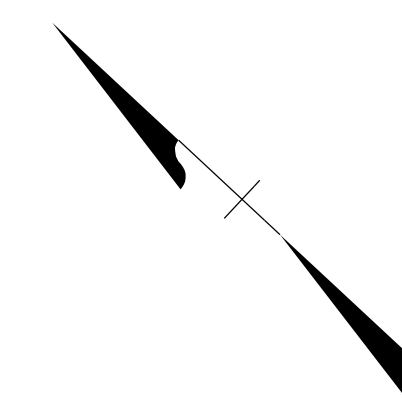
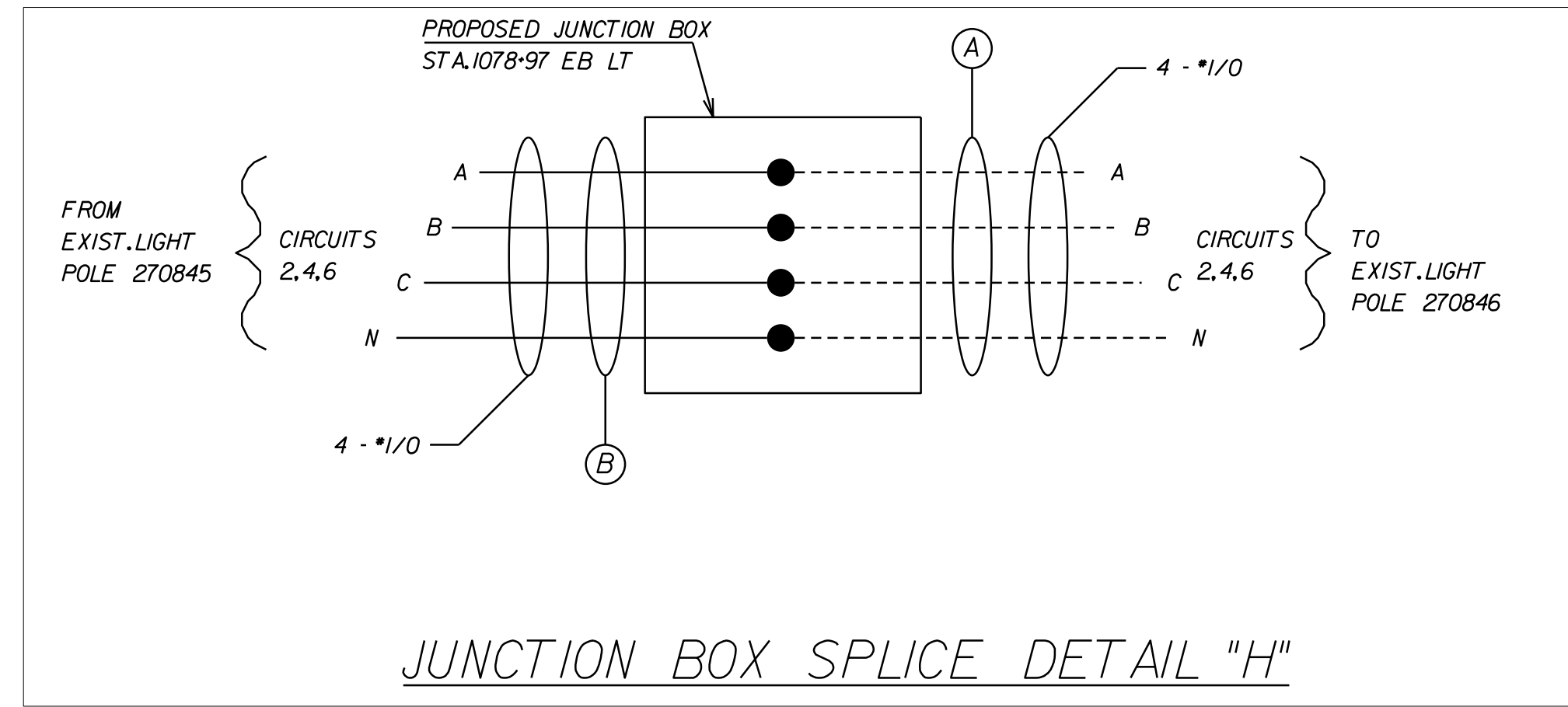
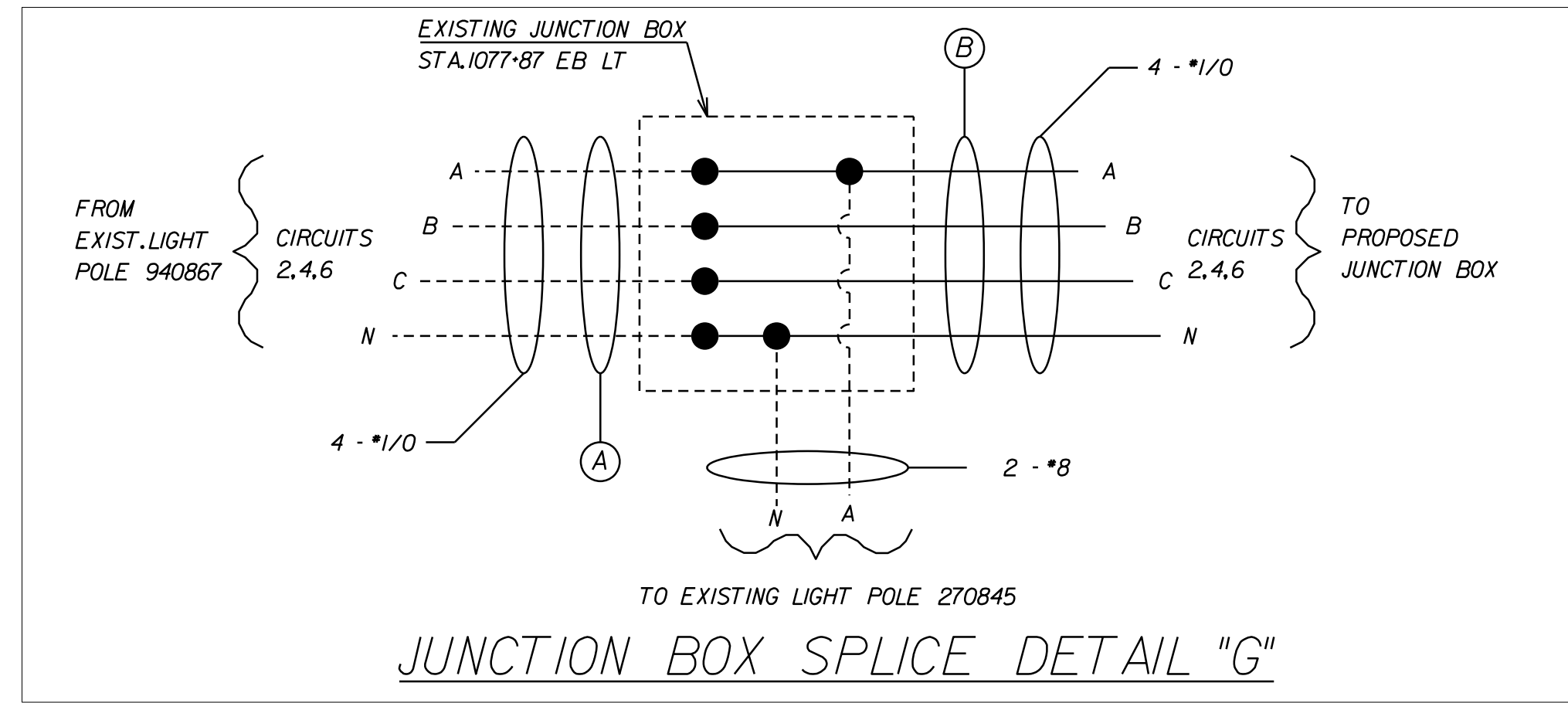
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PROJECT MANAGER: Erin Eoley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineer/Ing, Inc.
SUBSURFACE UTILITY BY, DATE: MZA

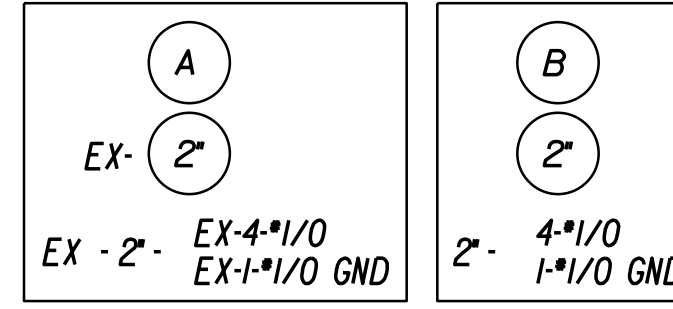
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	55(30)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER



- NOTES:
1) SEE SPlice DETAIL "G"
2) SEE SPlice DETAIL "H"



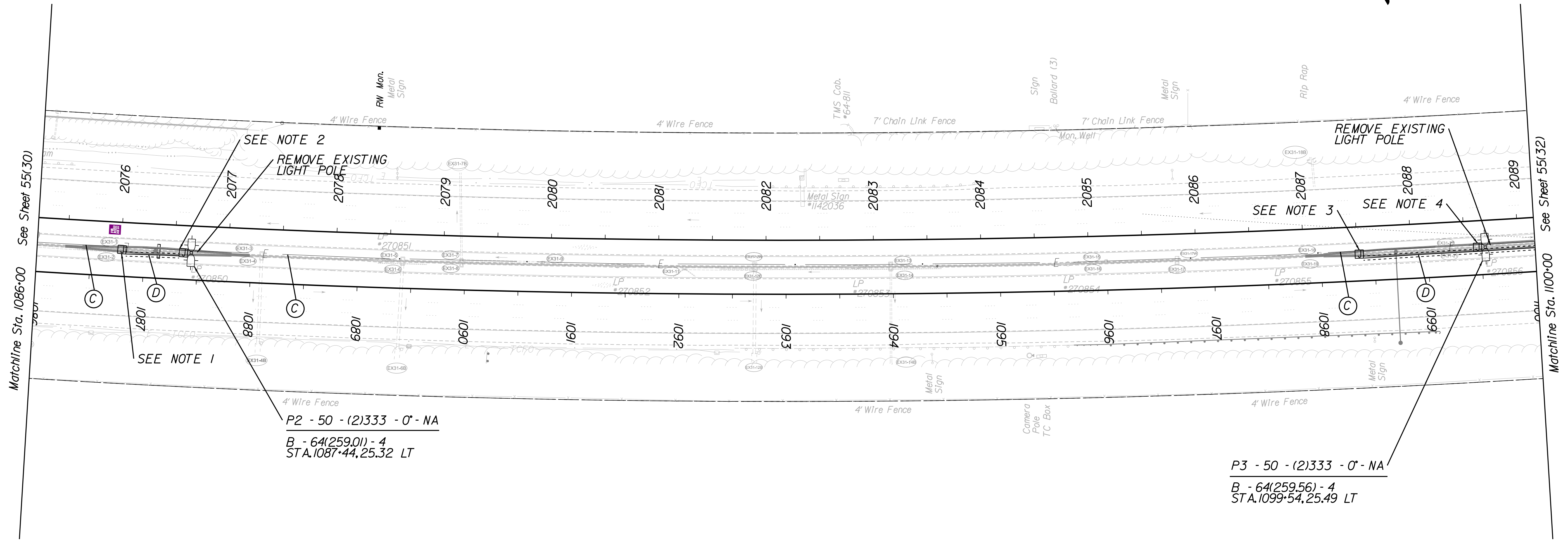
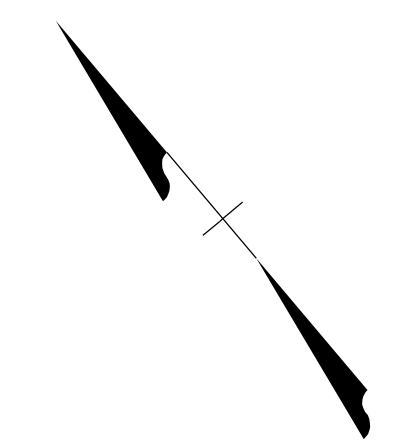
P.H. PLANS
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PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: MZA

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	55(31)

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HDR Engineering, Inc.
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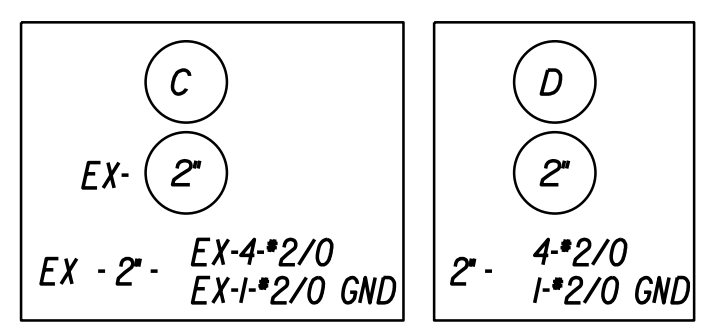
Matchline Sta. 1086+00 See Sheet 55(30)

Matchline Sta. 1100+00 See Sheet 55(32)

P2 - 50 - (2)333 - 0' - NA
B - 64(259.01) - 4
STA. 1087+44, 25.32 LT

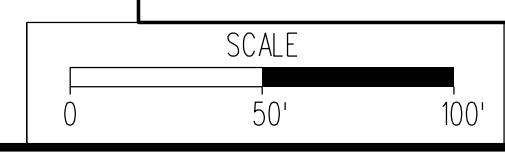
P3 - 50 - (2)333 - 0' - NA
B - 64(259.56) - 4
STA. 1099+54, 25.49 LT

- NOTES:
1) SEE SPLICE DETAIL "I"
2) SEE SPLICE DETAIL "J"
3) SEE SPLICE DETAIL "K"
4) SEE SPLICE DETAIL "L"



P.H. PLANS

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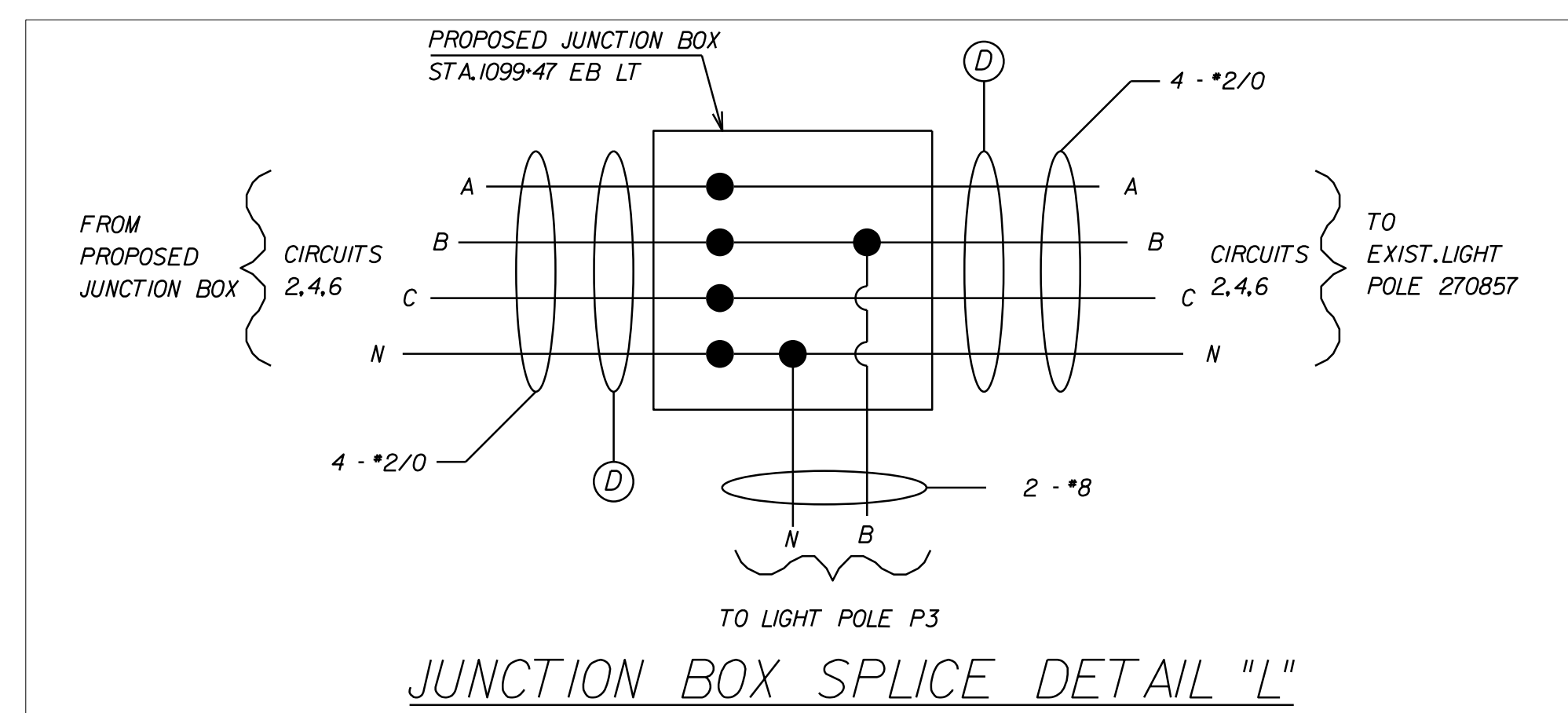
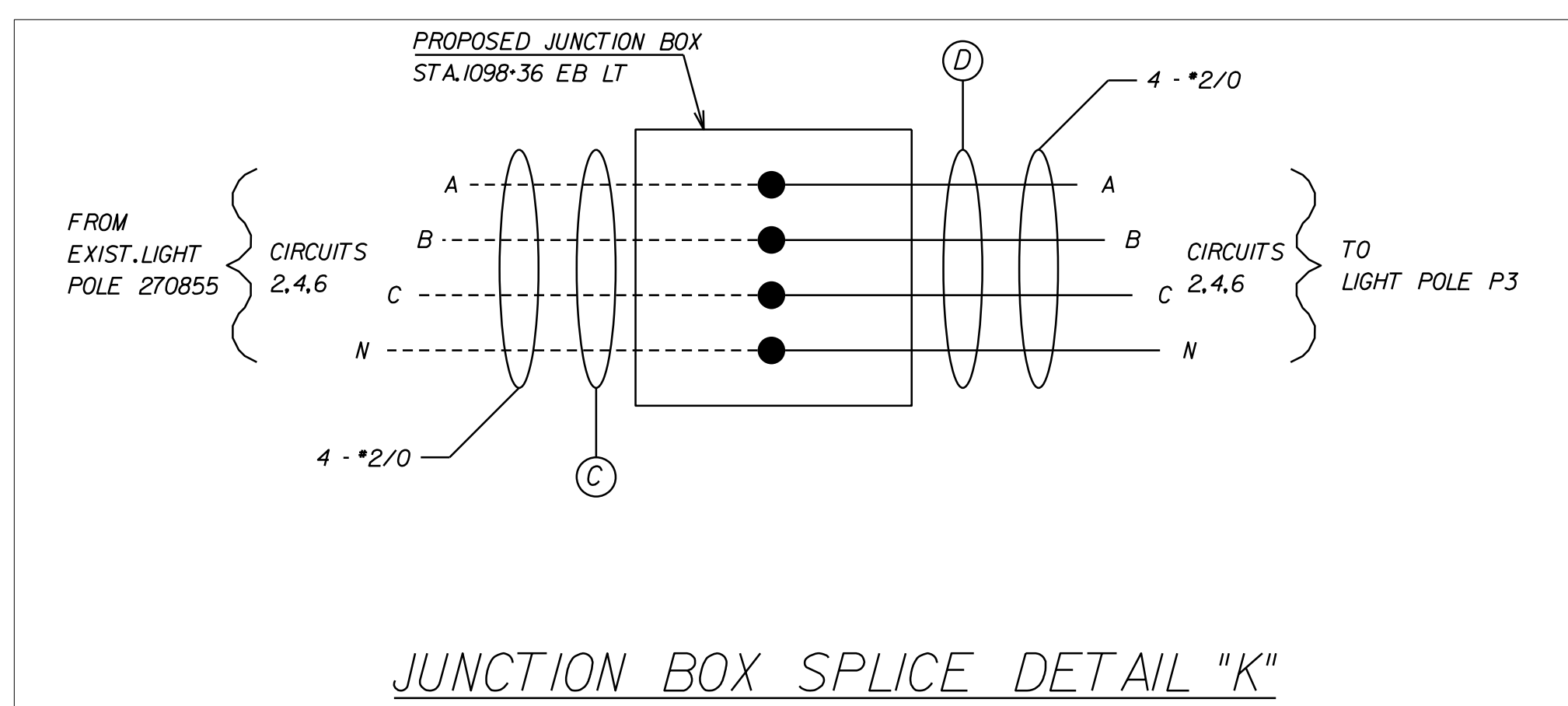
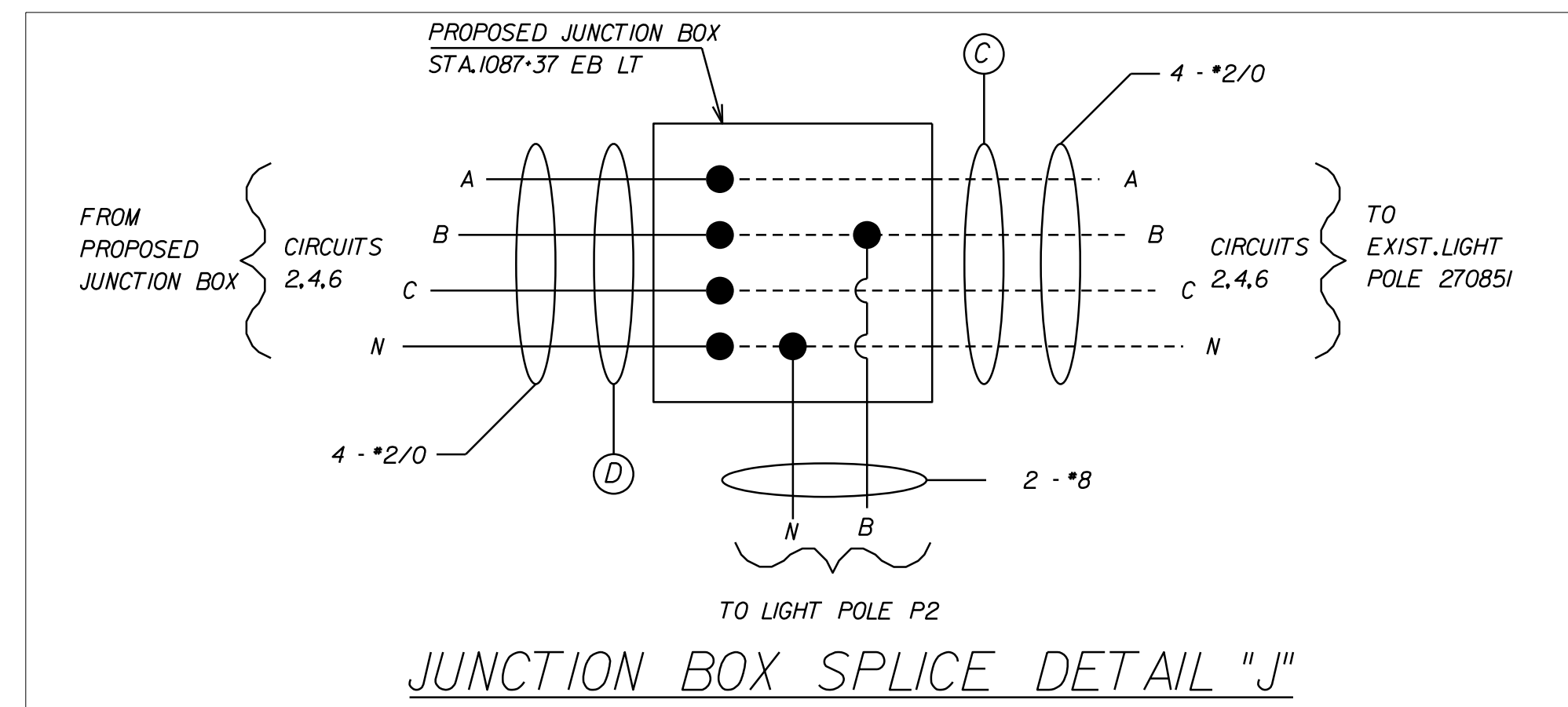
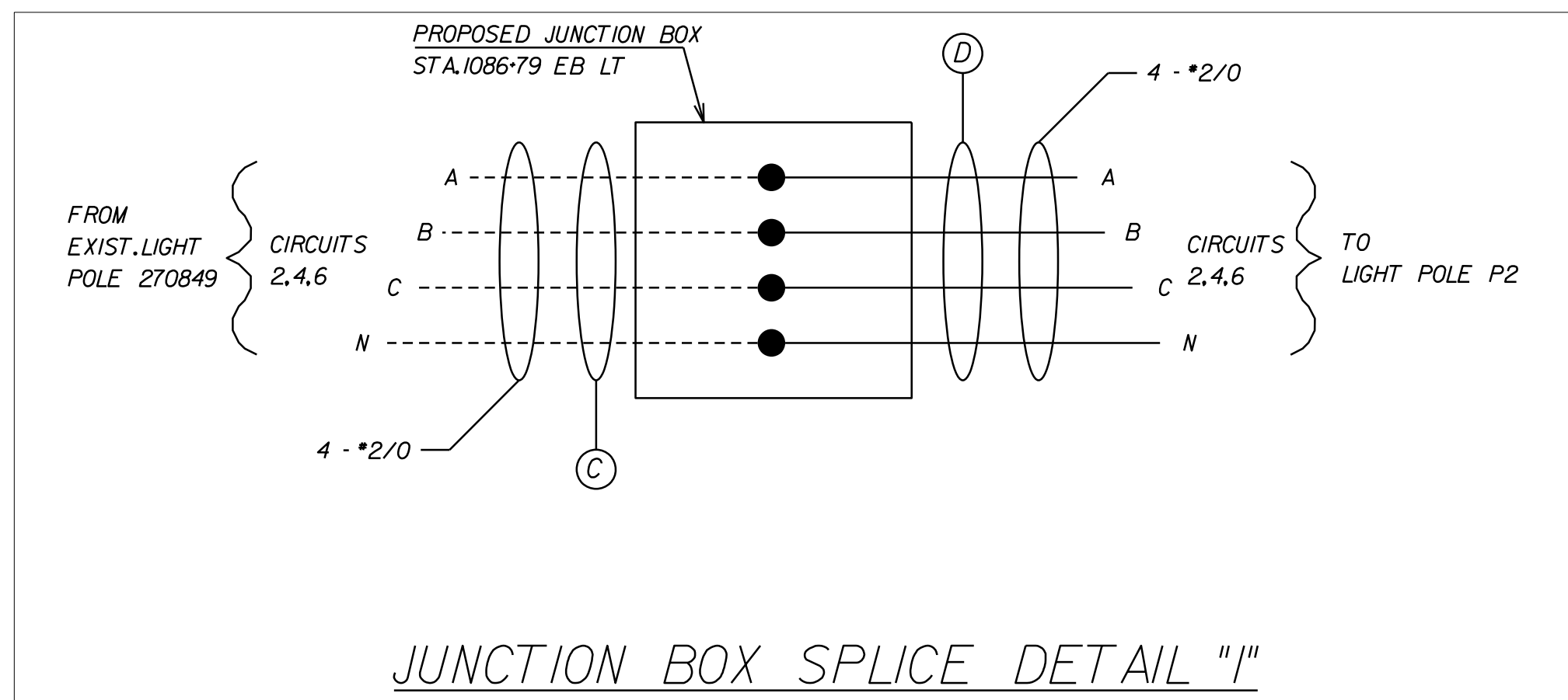


PROJECT MANAGER: Erin Eoley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: MZA

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	55(3)1A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER



P.H. PLANS

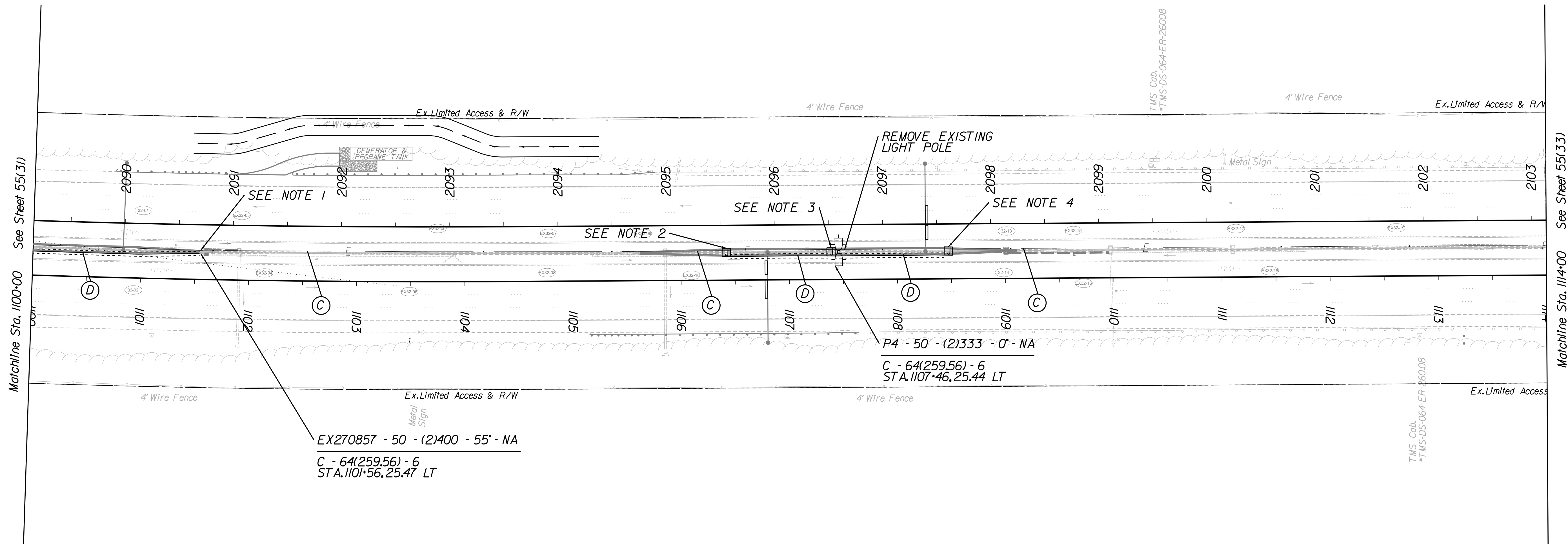
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineer Inc.
SUBSURFACE UTILITY BY, DATE: MZA

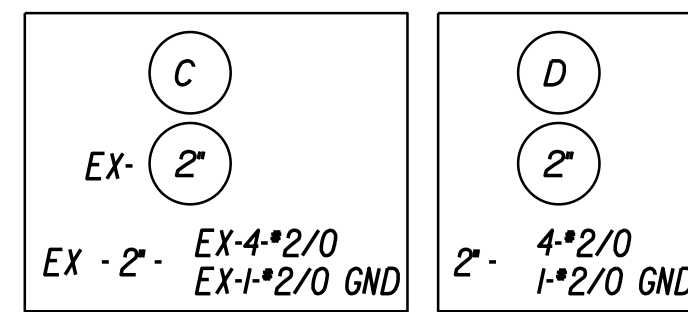
REVISED	STATE		PROJECT	SHEET NO.
	STATE	ROUTE		
	VA.	64	0064-121-418, P101	55(32)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

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Virginia Beach, Virginia
TRAFFIC ENGINEER



- NOTES:
1) SEE SPLICE DETAIL "M"
2) SEE SPLICE DETAIL "N"
3) SEE SPLICE DETAIL "O"
4) SEE SPLICE DETAIL "P"



P.H. PLANS

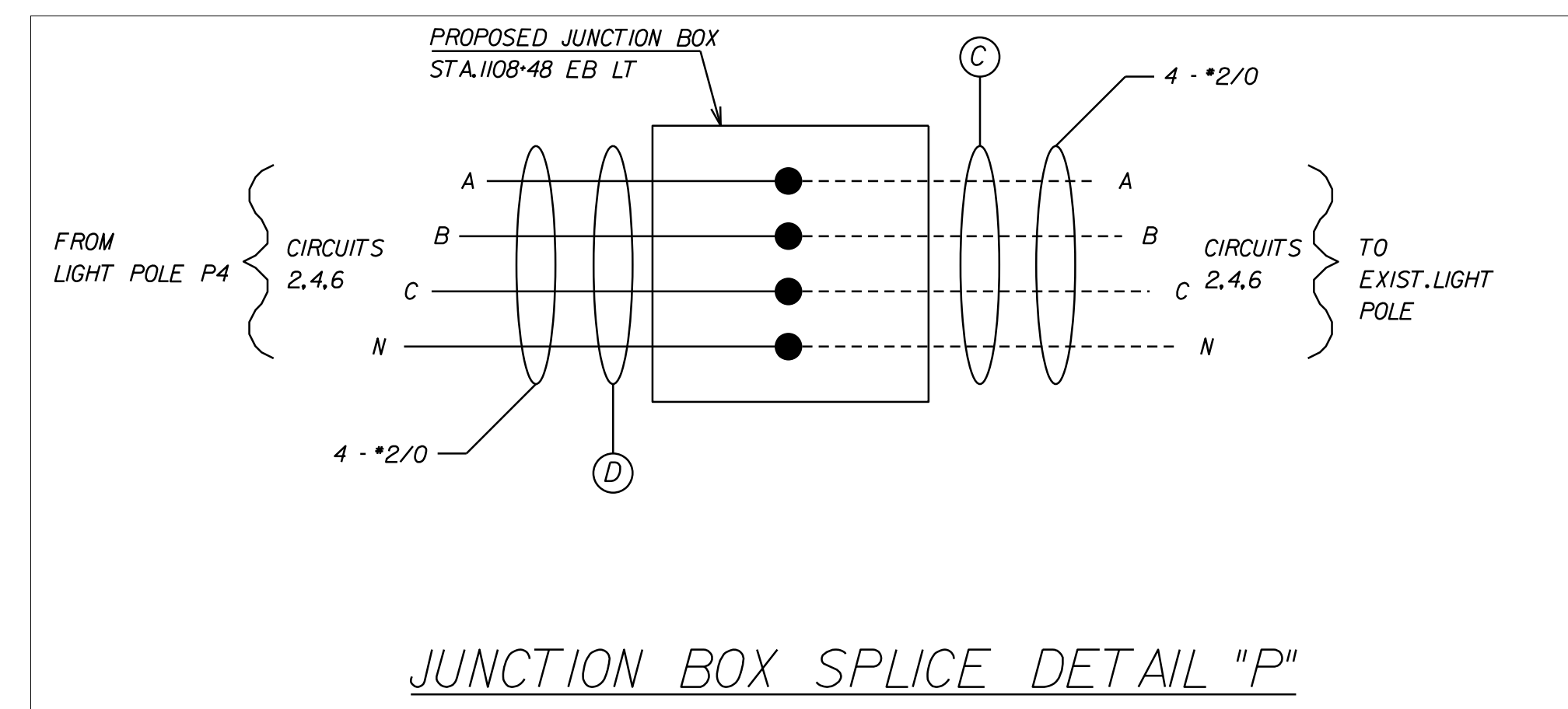
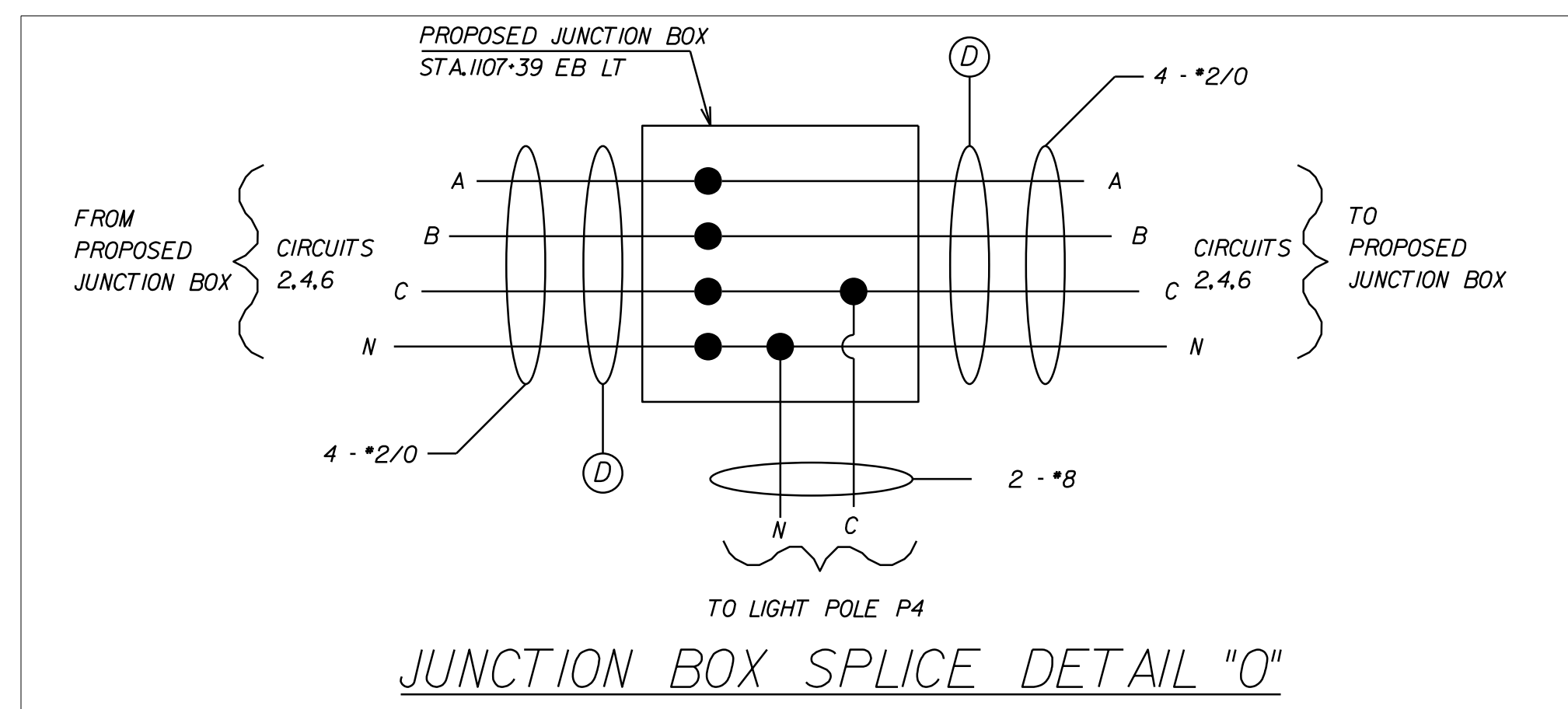
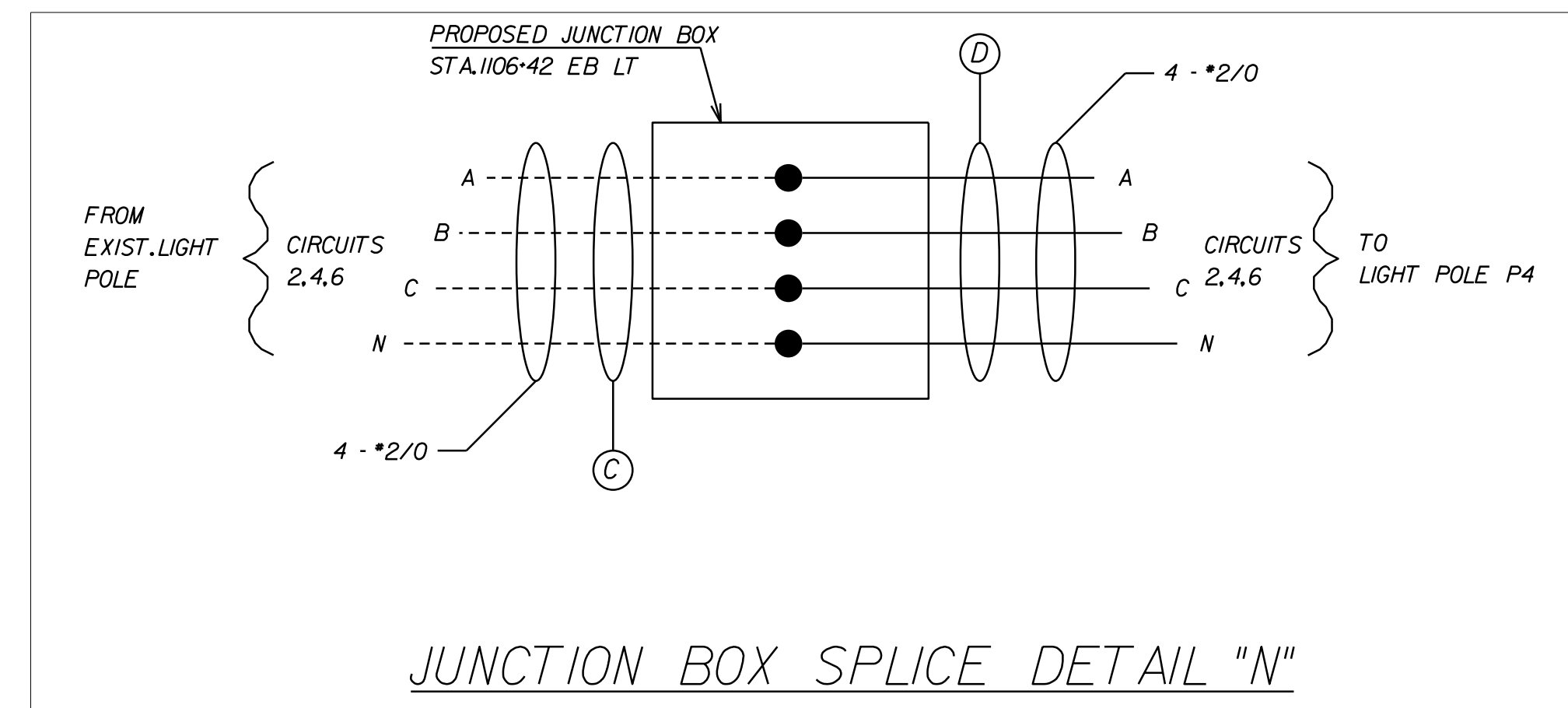
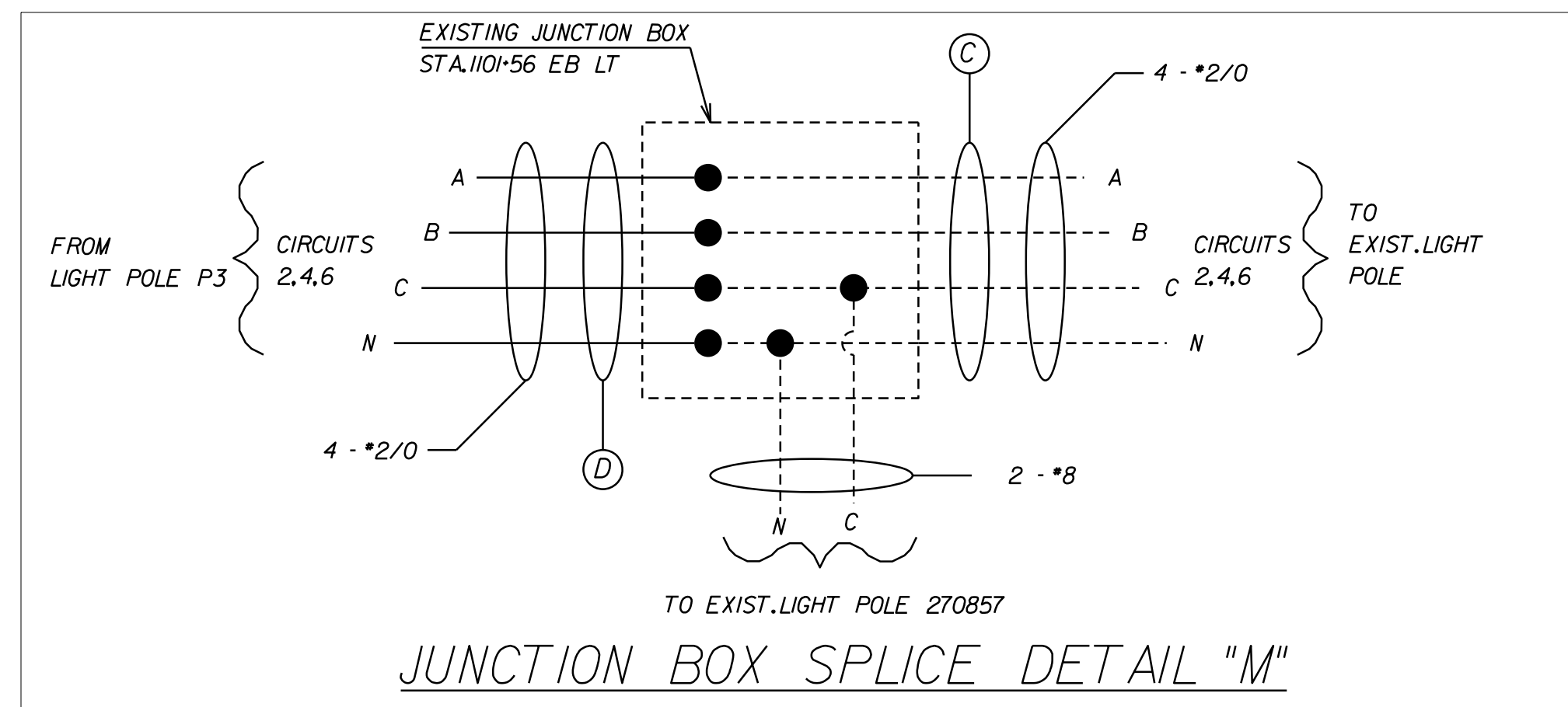
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PROJECT MANAGER: Erin Eoley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDR Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: MZA

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	55(32)A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER



P.H. PLANS

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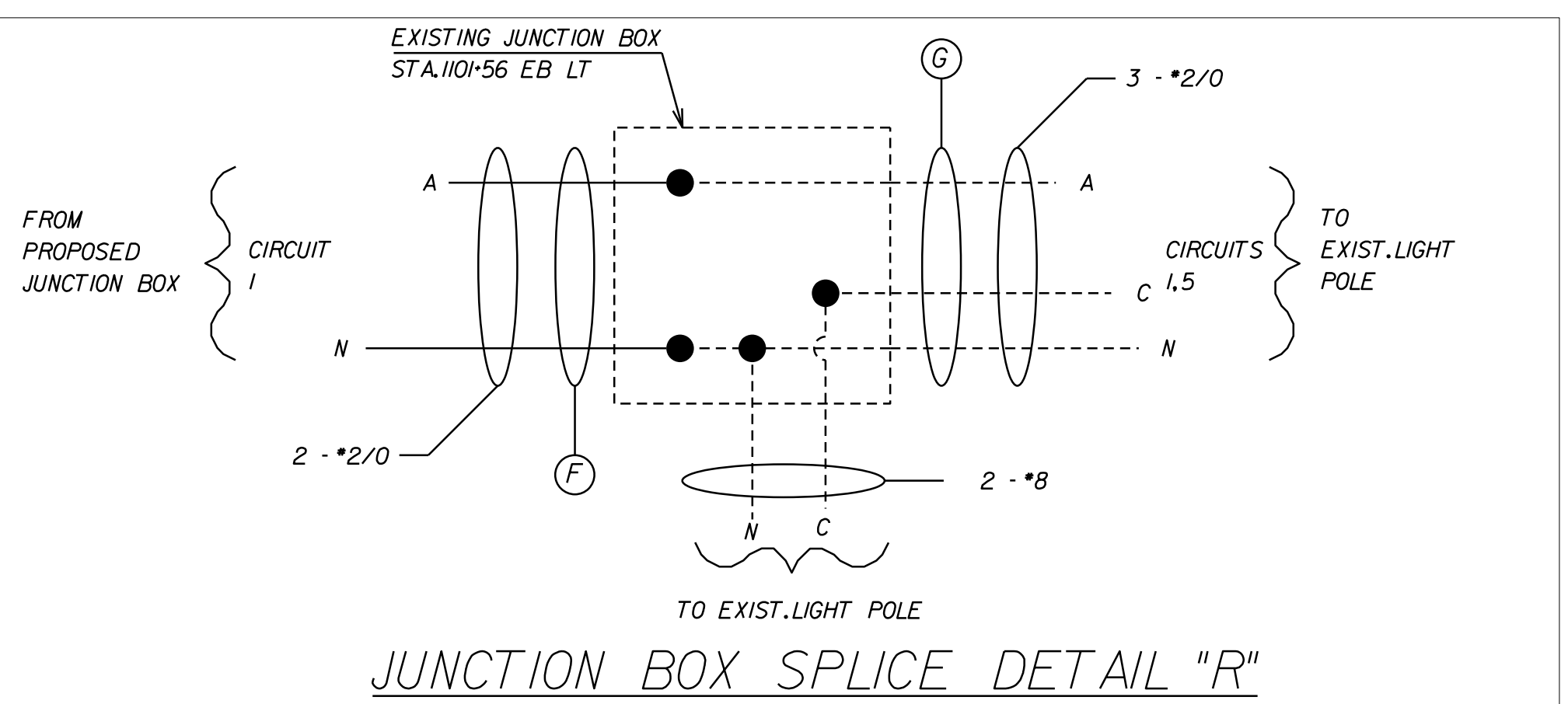
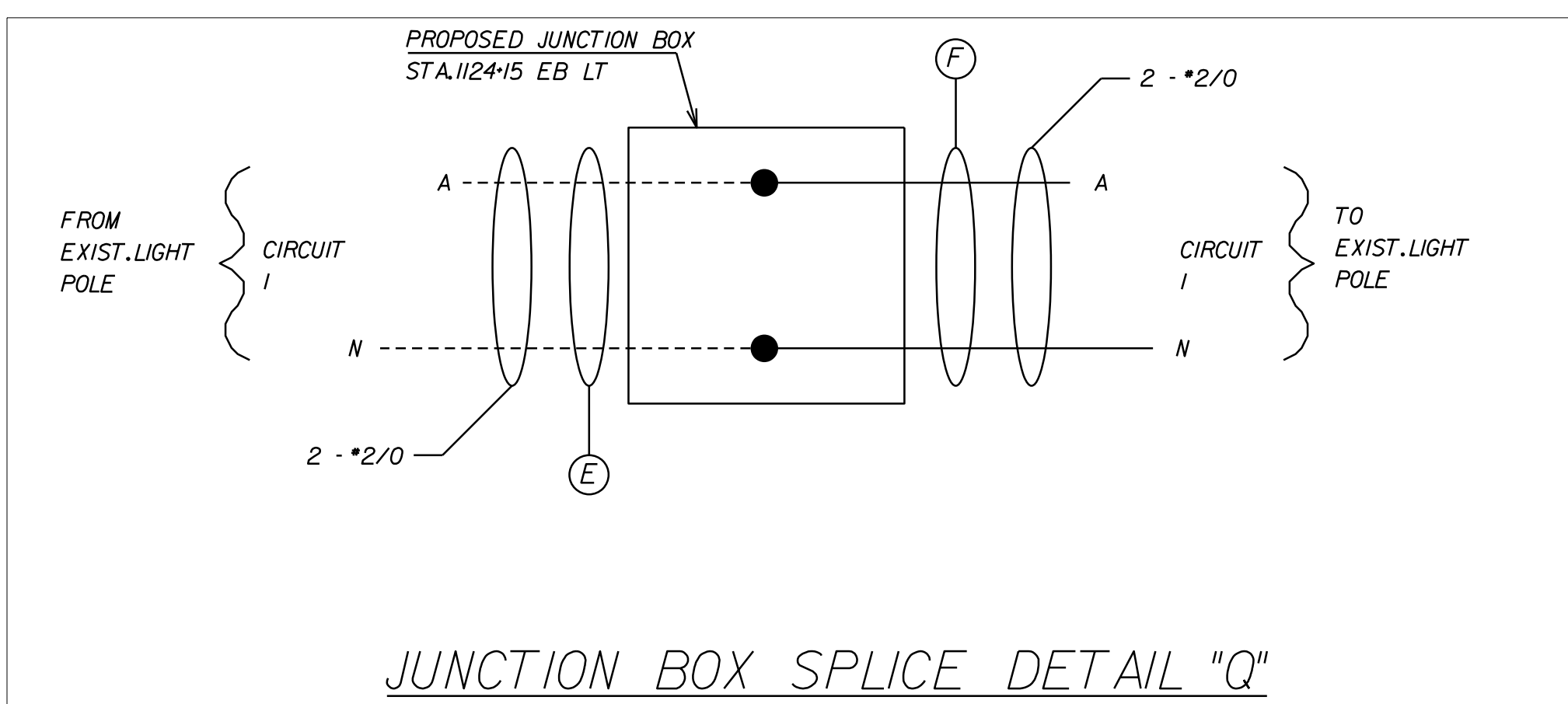
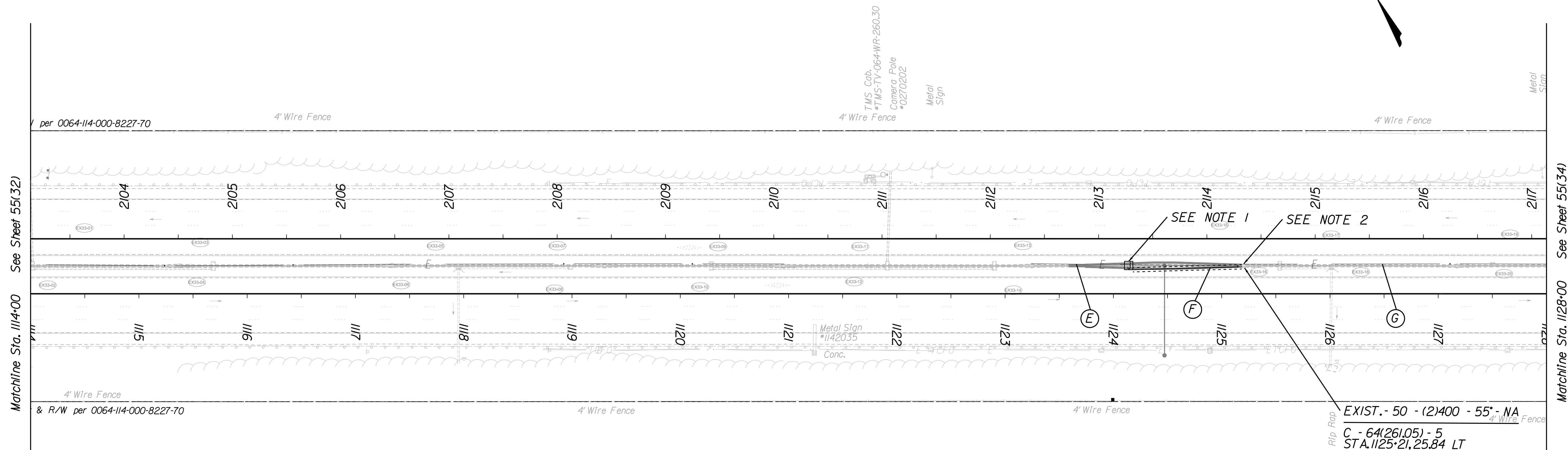
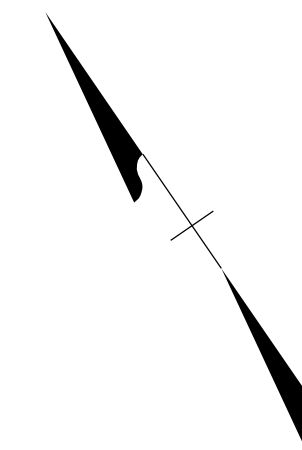
NOT TO SCALE	PROJECT 0064-121-418	SHEET NO. 55(32)A
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PROJECT MANAGER: Erin Eoley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineer/Inc.
SUBSURFACE UTILITY BY, DATE: MZA

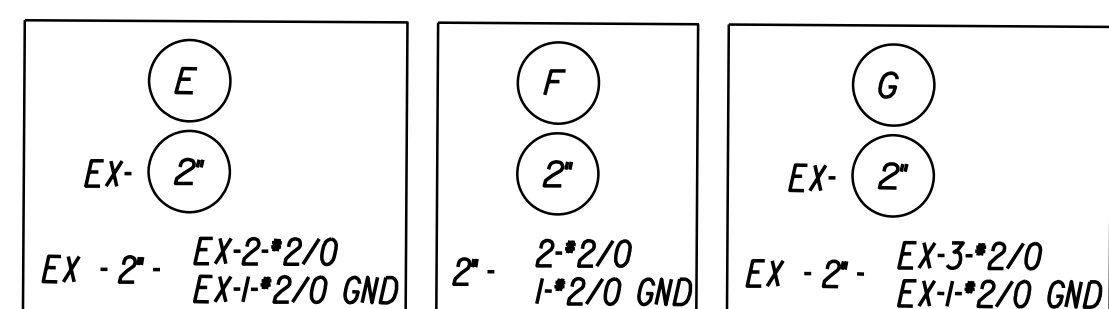
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	55(33)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER



NOTES:
1) SEE SPLICE DETAIL "Q"
2) SEE SPLICE DETAIL "R"



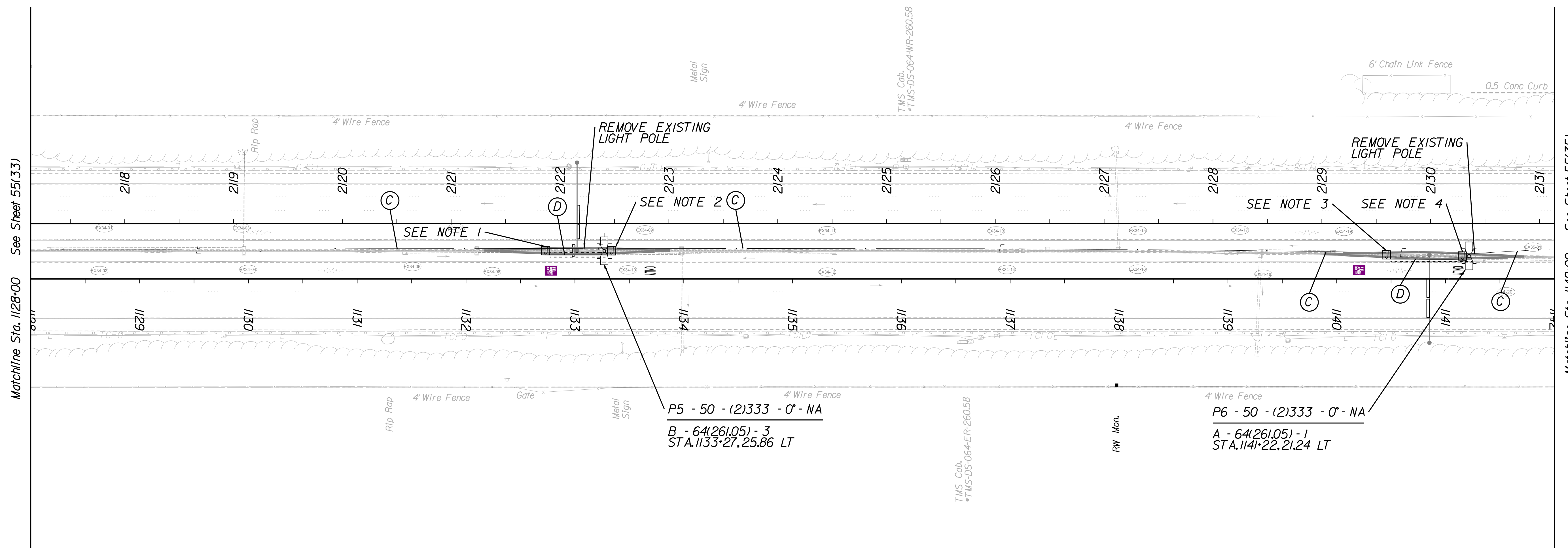
P.H. PLANS
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PROJECT MANAGER: Erin Eoley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: MZA

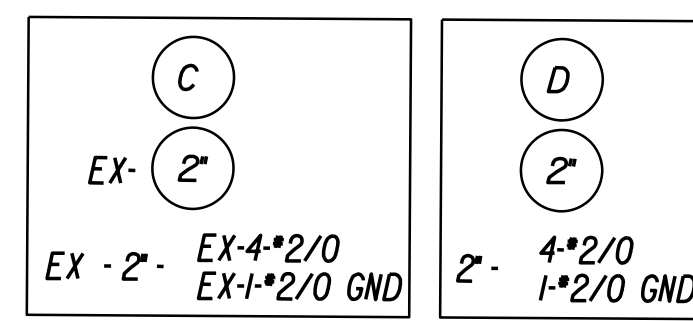
REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	64		0064-121-418, P101	55(34)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER



- NOTES:
1) SEE SPLICE DETAIL "S"
2) SEE SPLICE DETAIL "T"
3) SEE SPLICE DETAIL "U"
4) SEE SPLICE DETAIL "V"



P.H. PLANS

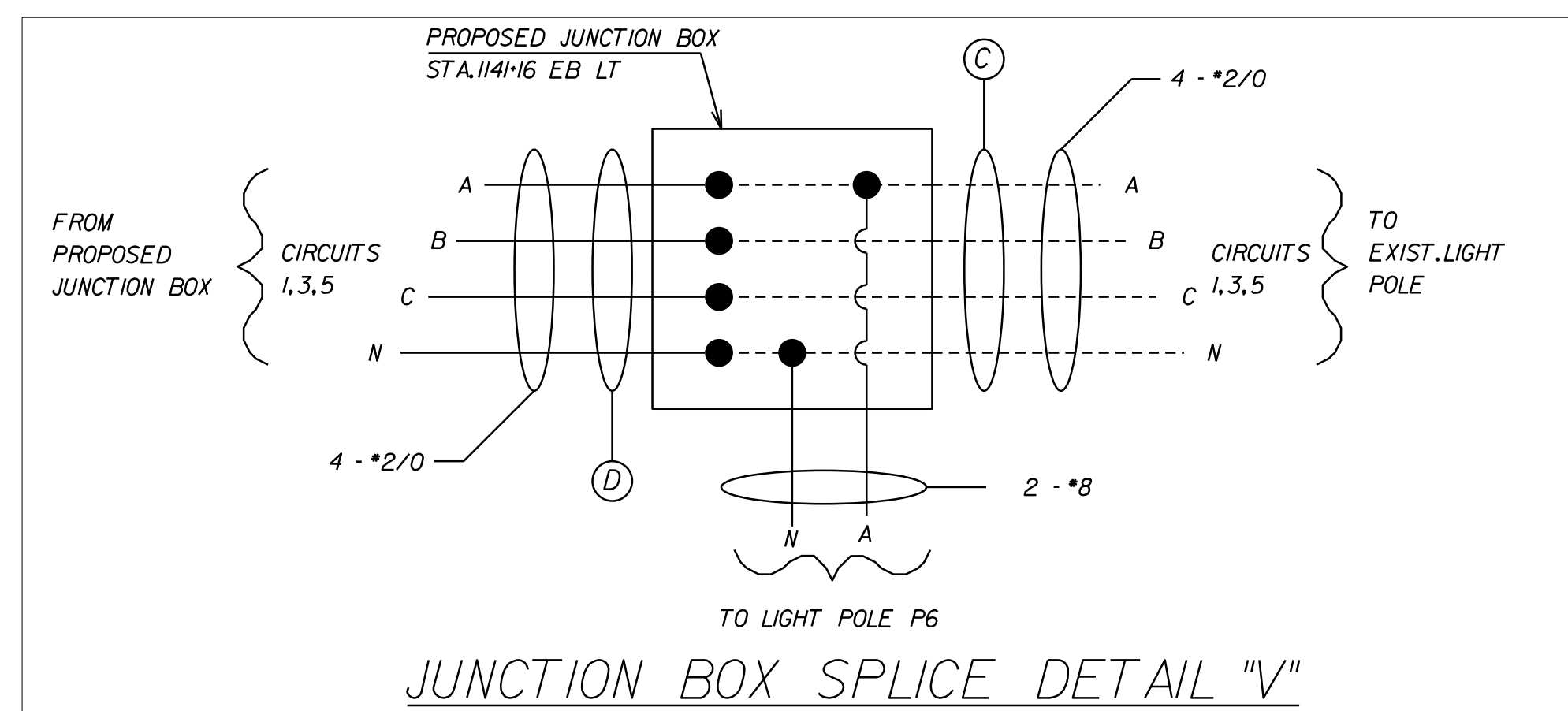
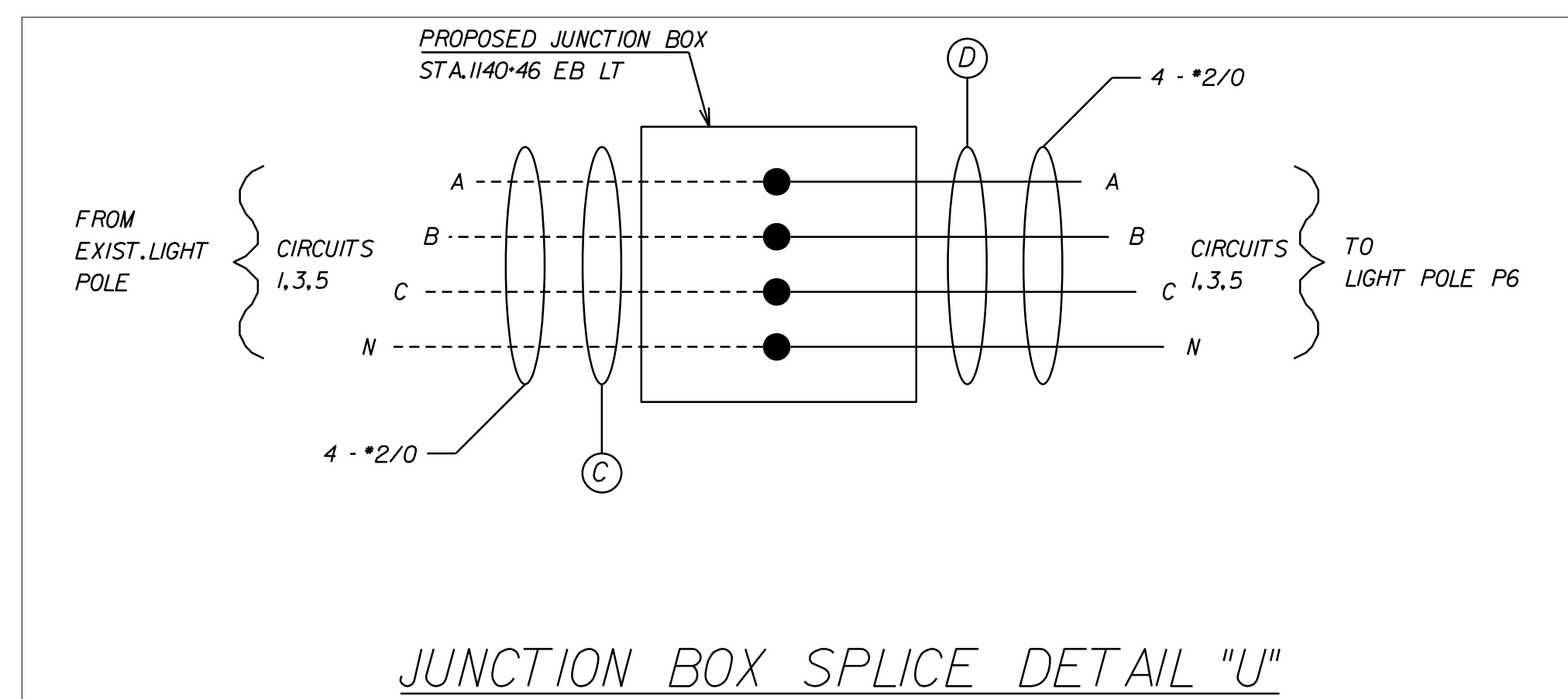
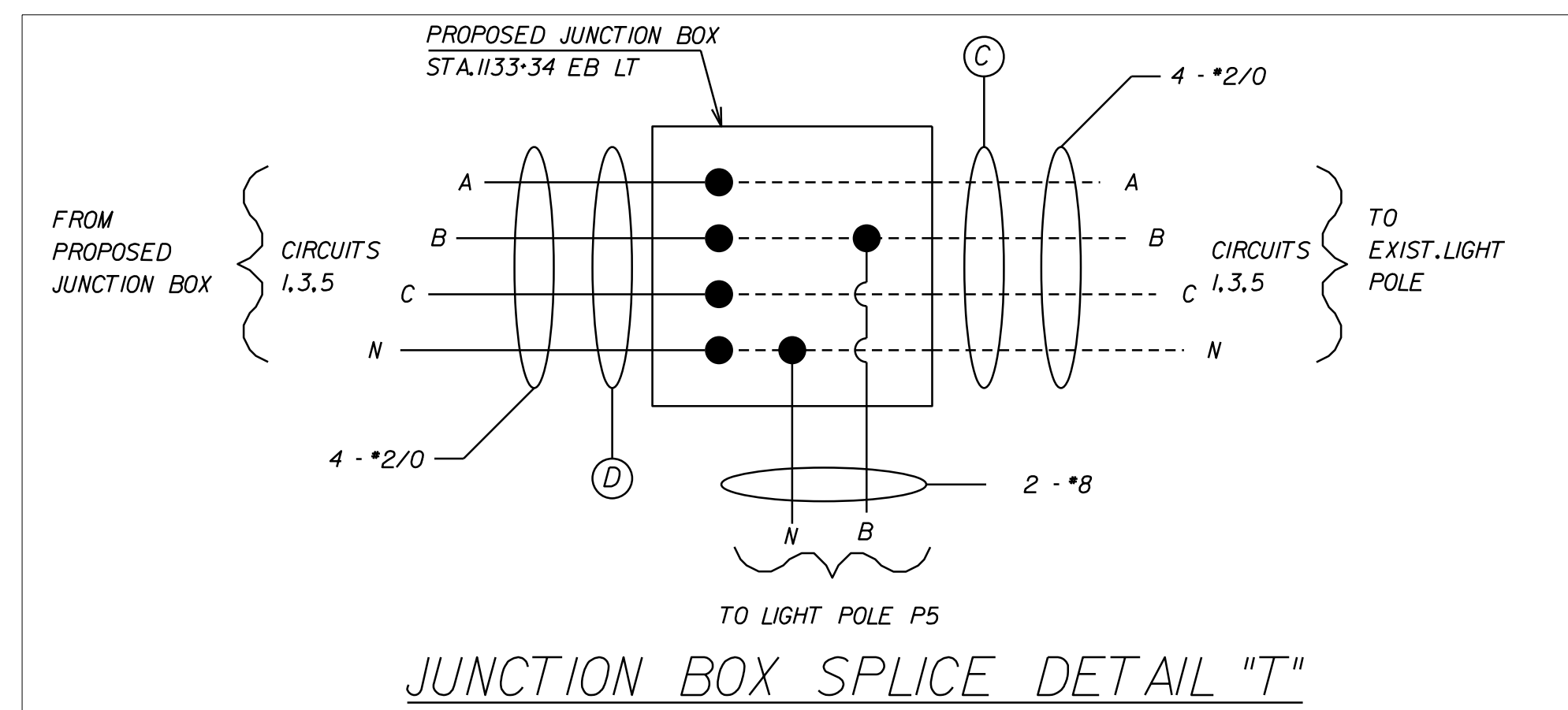
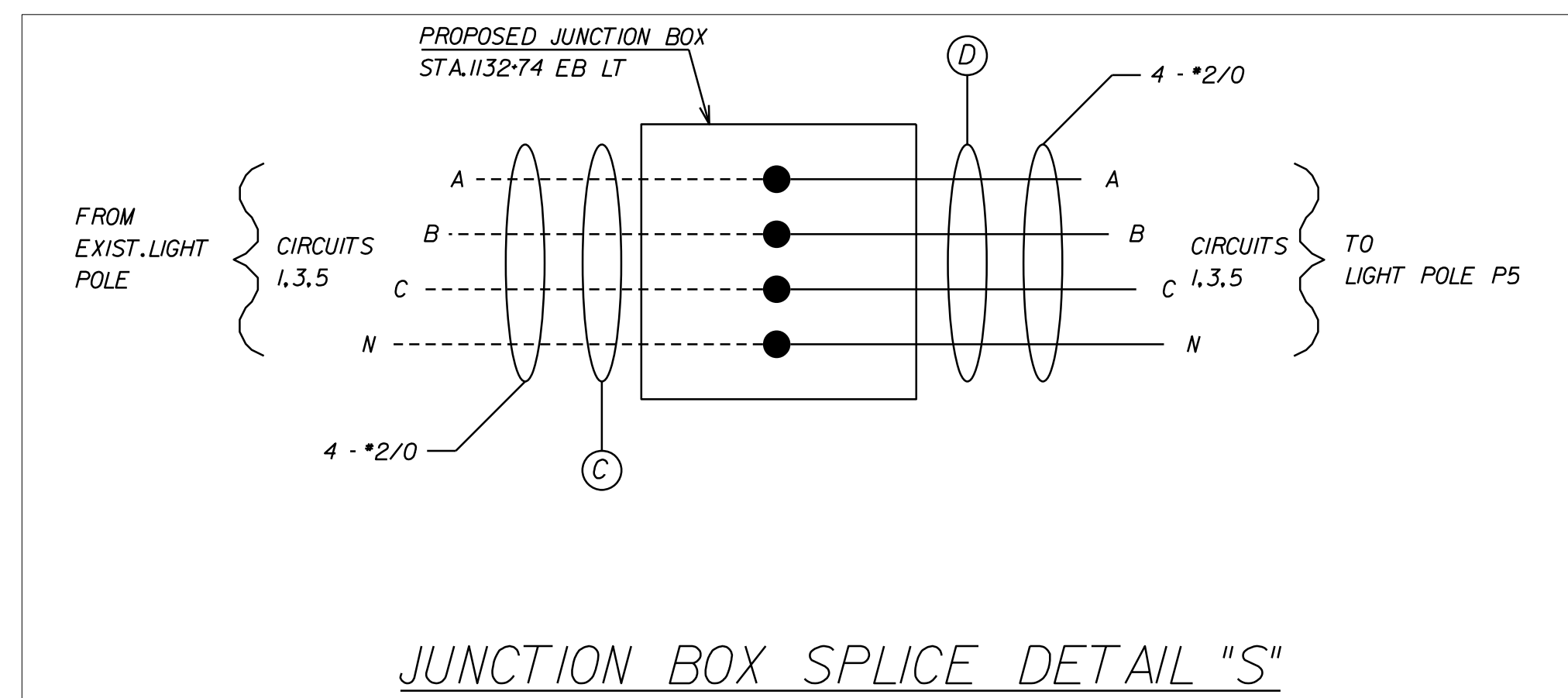
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PROJECT MANAGER: Erin Eoley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: N/A

REVISED	STATE	ROUTE	STATE	SHEET NO.
			PROJECT	
	VA.	64	0064-121-418, P101	55(34)A

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Virginia Beach, Virginia
TRAFFIC ENGINEER



P.H. PLANS

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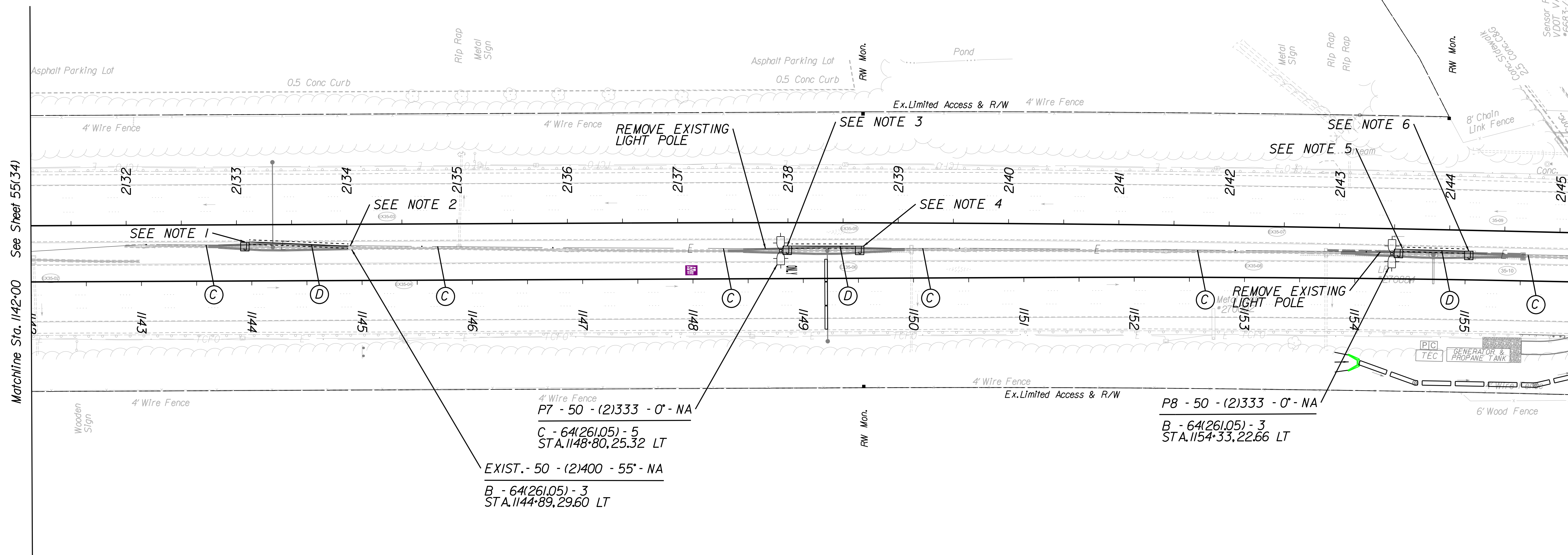
PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: N/A

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	55(35)

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HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER

Sensor Pole
VDOT VALMONT
#6683-1-1
-8.03 GA x 35'

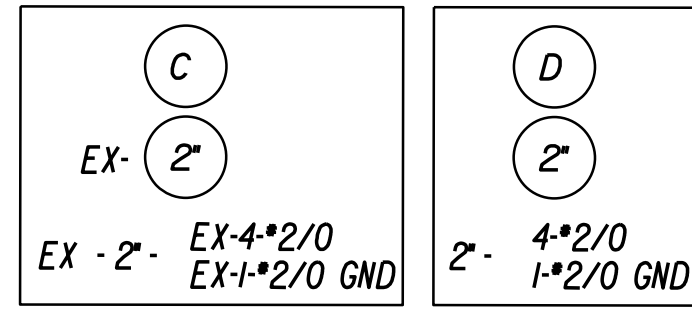


Matchline Sta. 1142+00 See Sheet 55(34)

4' Wire Fence
P7 - 50 - (2)333 - 0' - NA
C - 64(261.05) - 5
STA. 1148+80, 25.32 LT
EXIST. - 50 - (2)400 - 55' - NA
B - 64(261.05) - 3
STA. 1144+89, 29.60 LT

4' Wire Fence
P8 - 50 - (2)333 - 0' - NA
B - 64(261.05) - 3
STA. 1154+33, 22.66 LT

- NOTES:
- 1) SEE SPLICE DETAIL "W"
 - 2) SEE SPLICE DETAIL "X"
 - 3) SEE SPLICE DETAIL "Y"
 - 4) SEE SPLICE DETAIL "Z"
 - 5) SEE SPLICE DETAIL "AA"
 - 6) SEE SPLICE DETAIL "AB"



P.H. PLANS

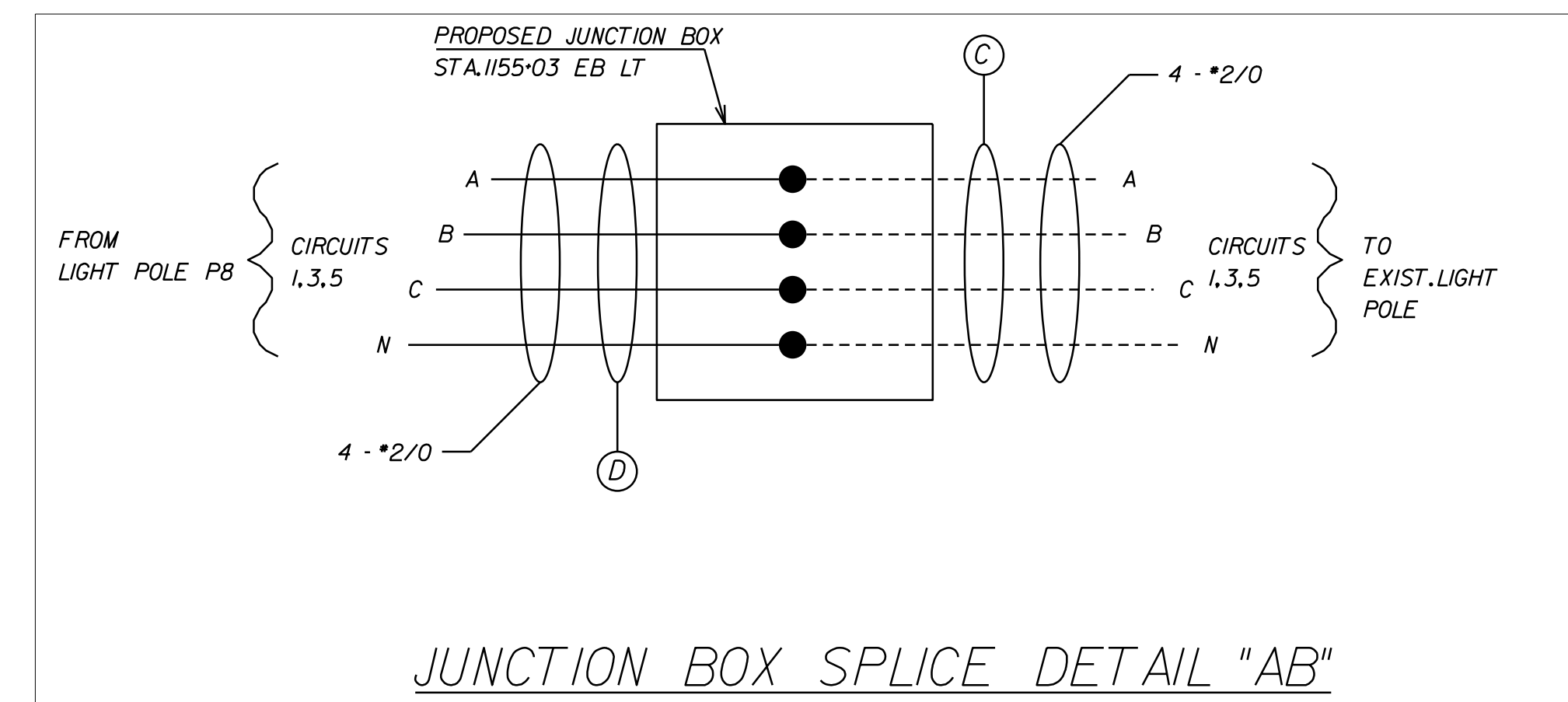
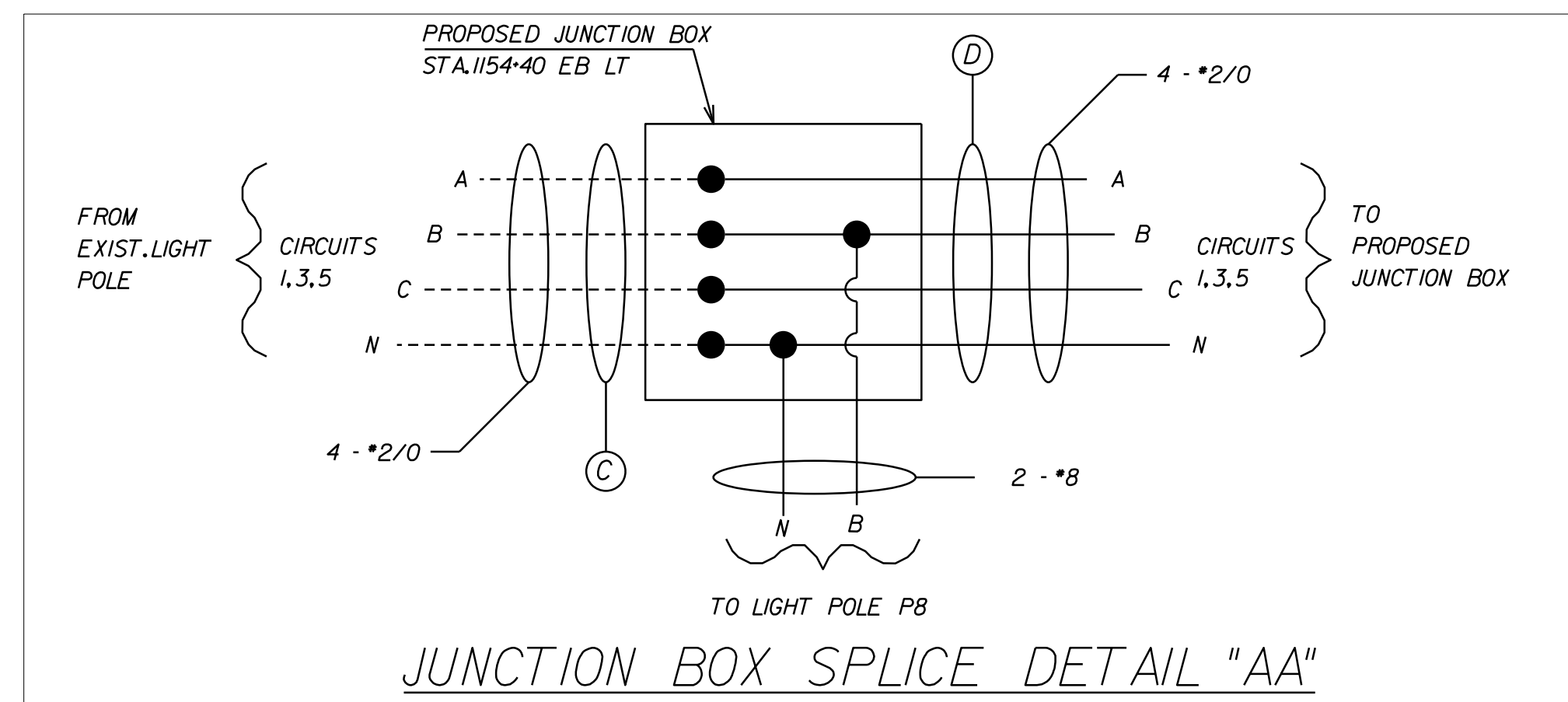
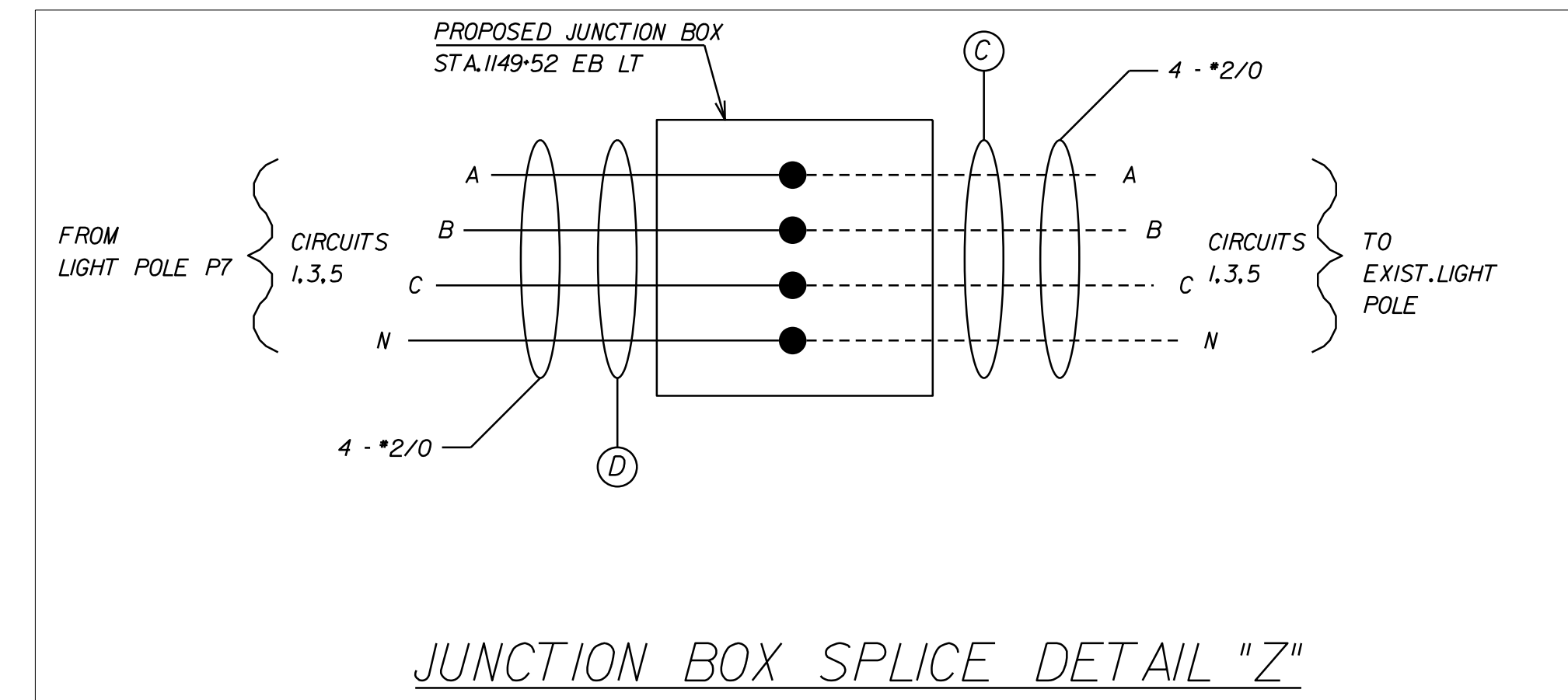
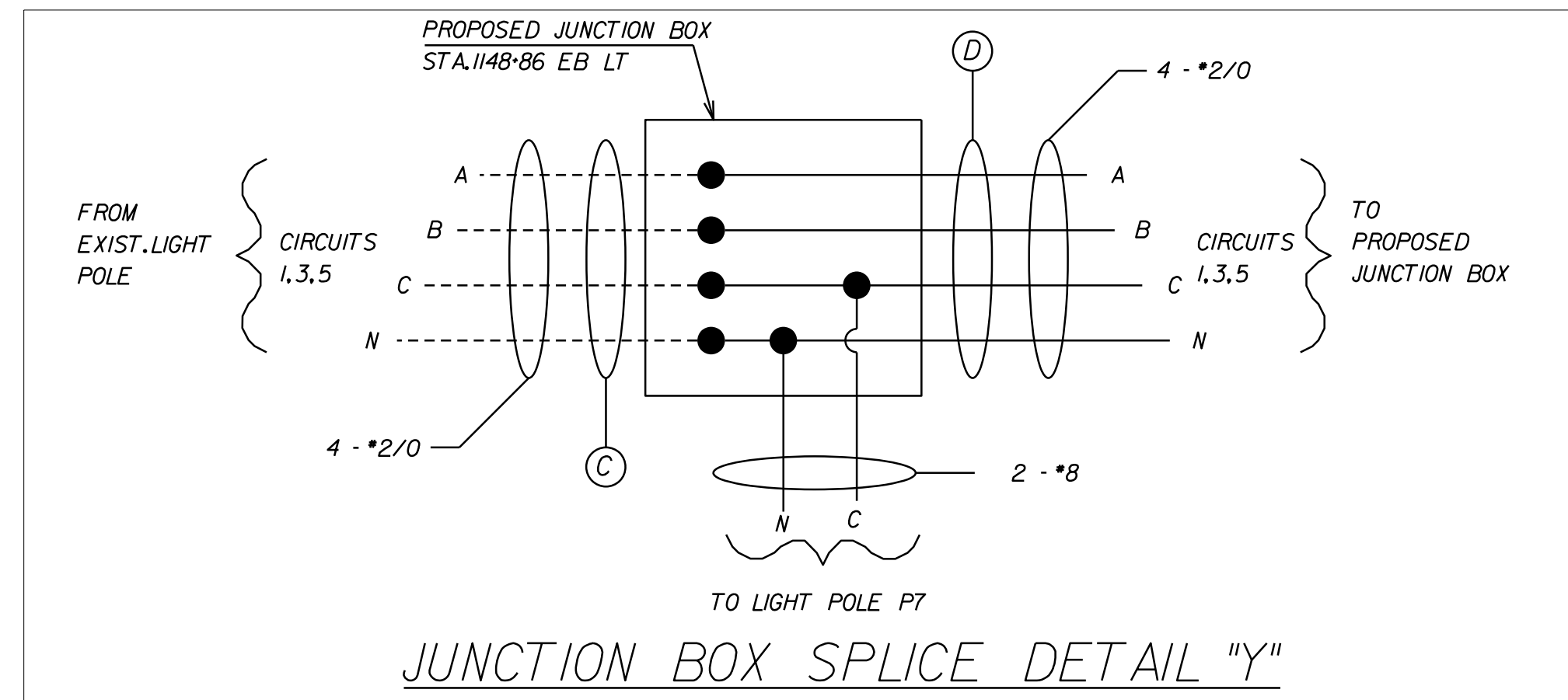
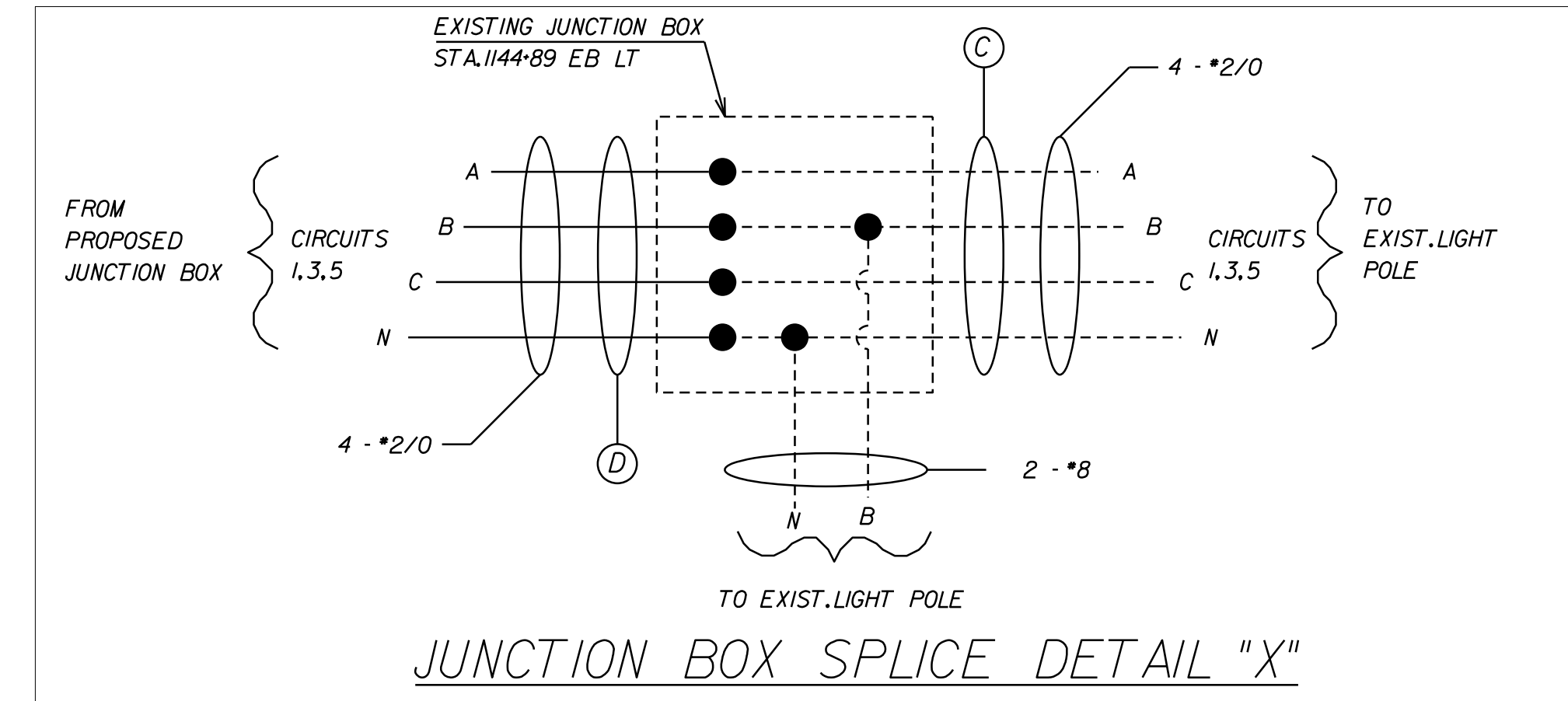
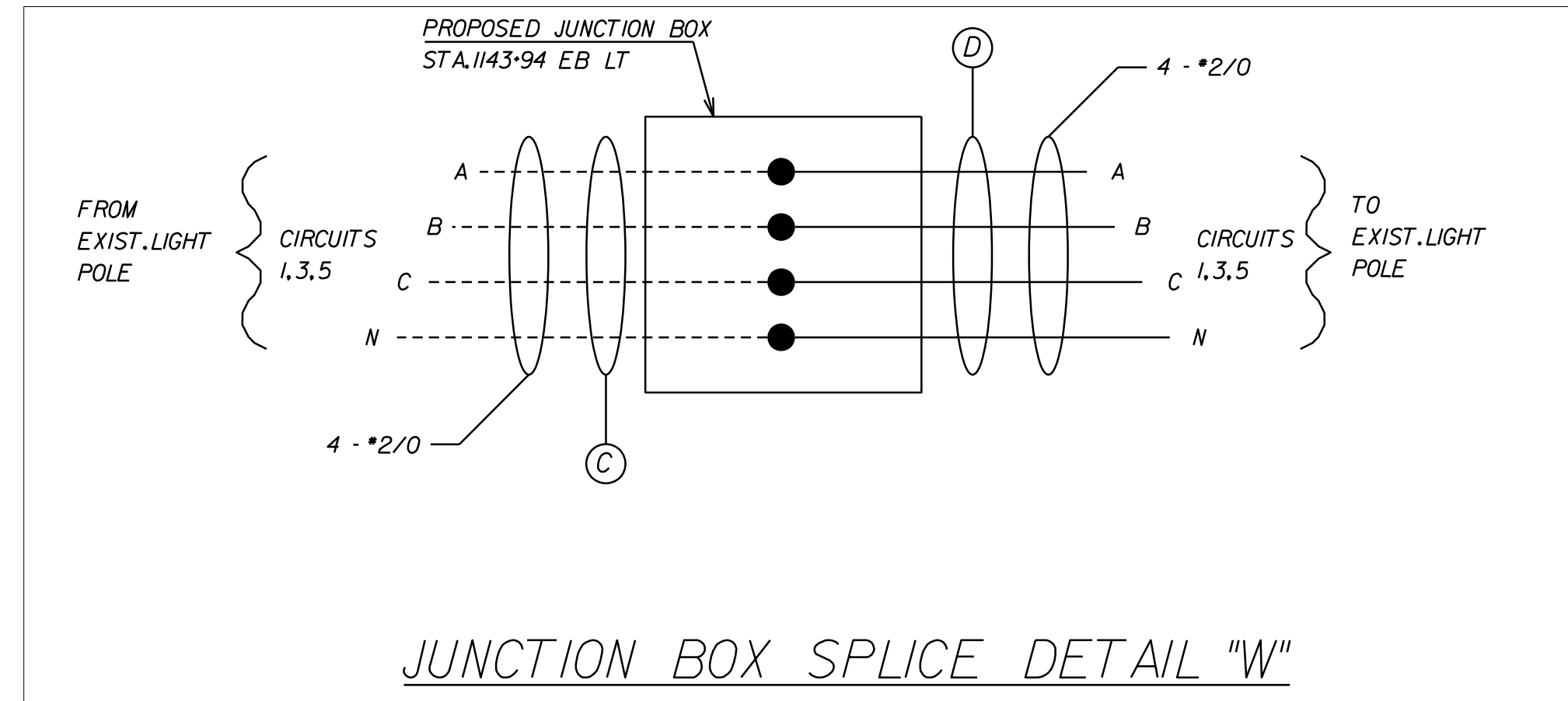
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PROJECT MANAGER: Erin Eoley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDR Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: MZA

REVISED	STATE	ROUTE	STATE	SHEET NO.
			PROJECT	
	VA.	64	0064-121-418, P101	55(35)A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER



P.H. PLANS

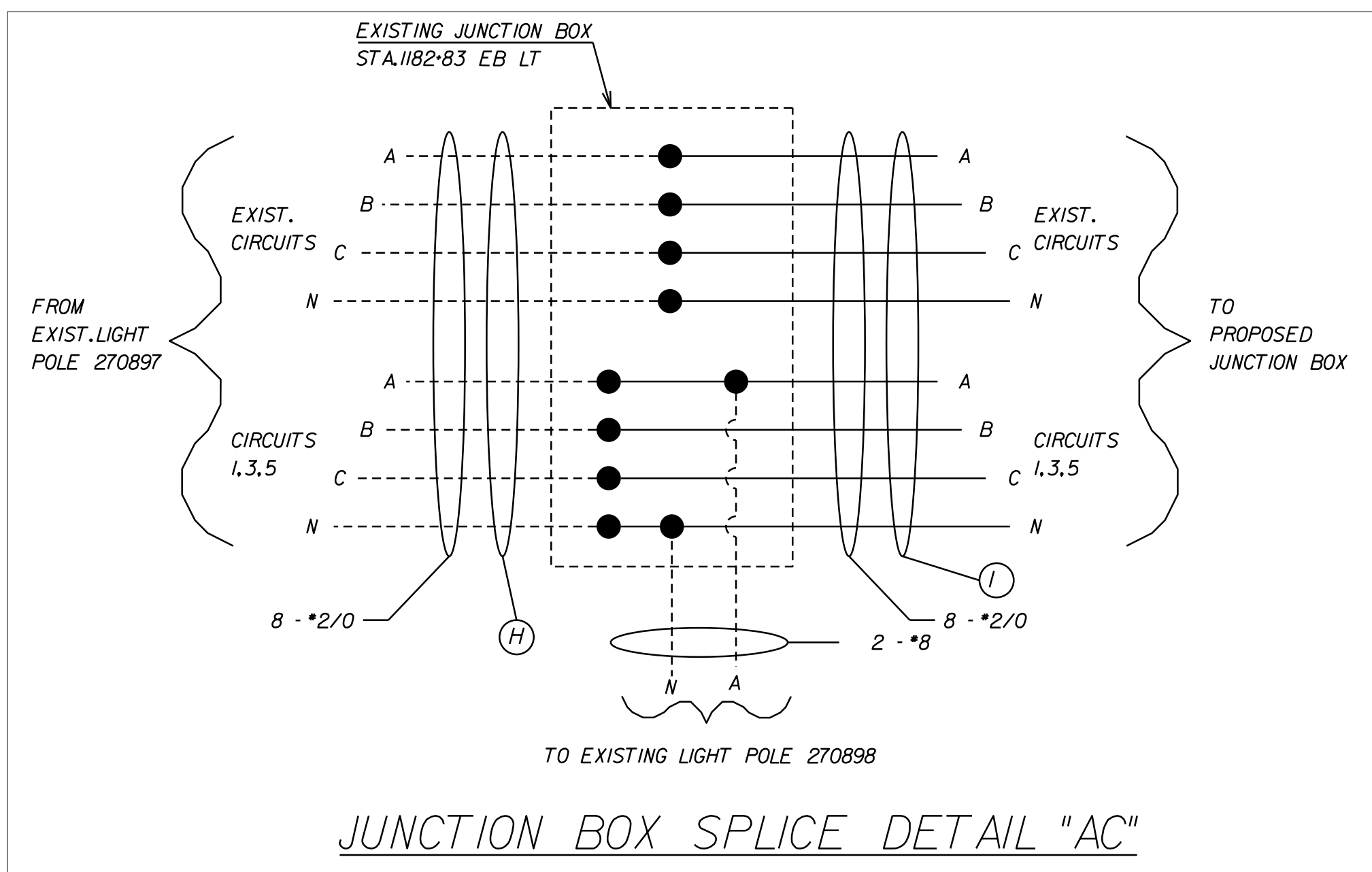
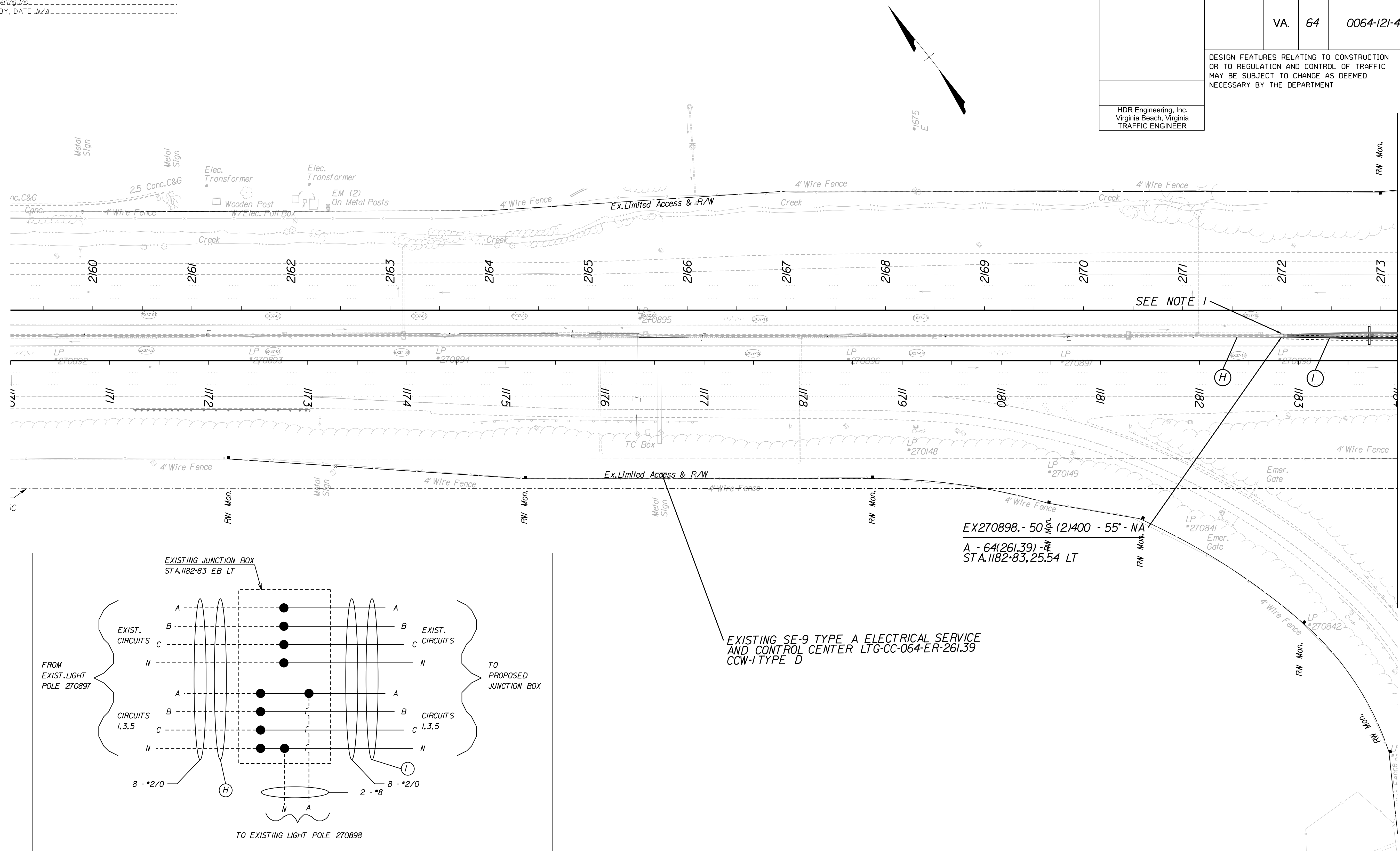
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PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: MZA

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	64		0064-121-418, P101	55(37)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

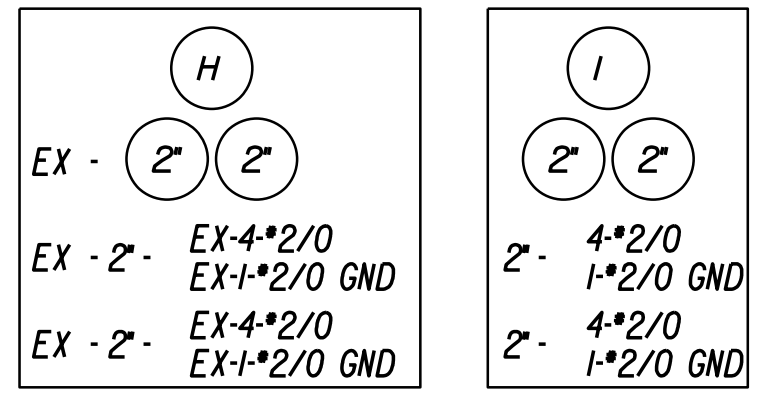
HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER



EXISTING SE-9 TYPE A ELECTRICAL SERVICE AND CONTROL CENTER LTG-CC-064-ER-261.39 CCW-I TYPE D

EX270898 - 50' Mon (2)400 - 55' - NA
A - 64(261.39) - 4' Mon
STA. 1182+83, 25.54 LT

NOTES:
1) SEE SPLICE DETAIL "AC"



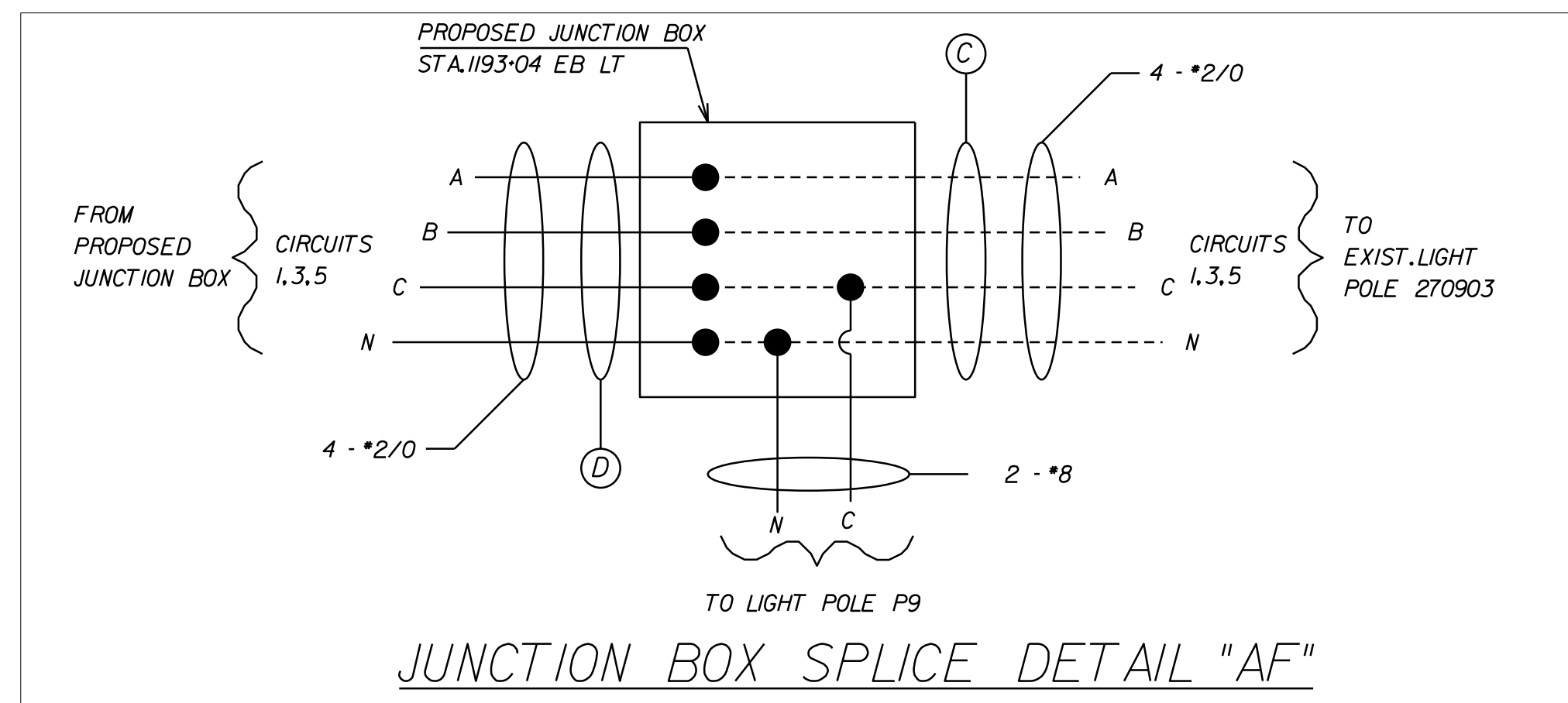
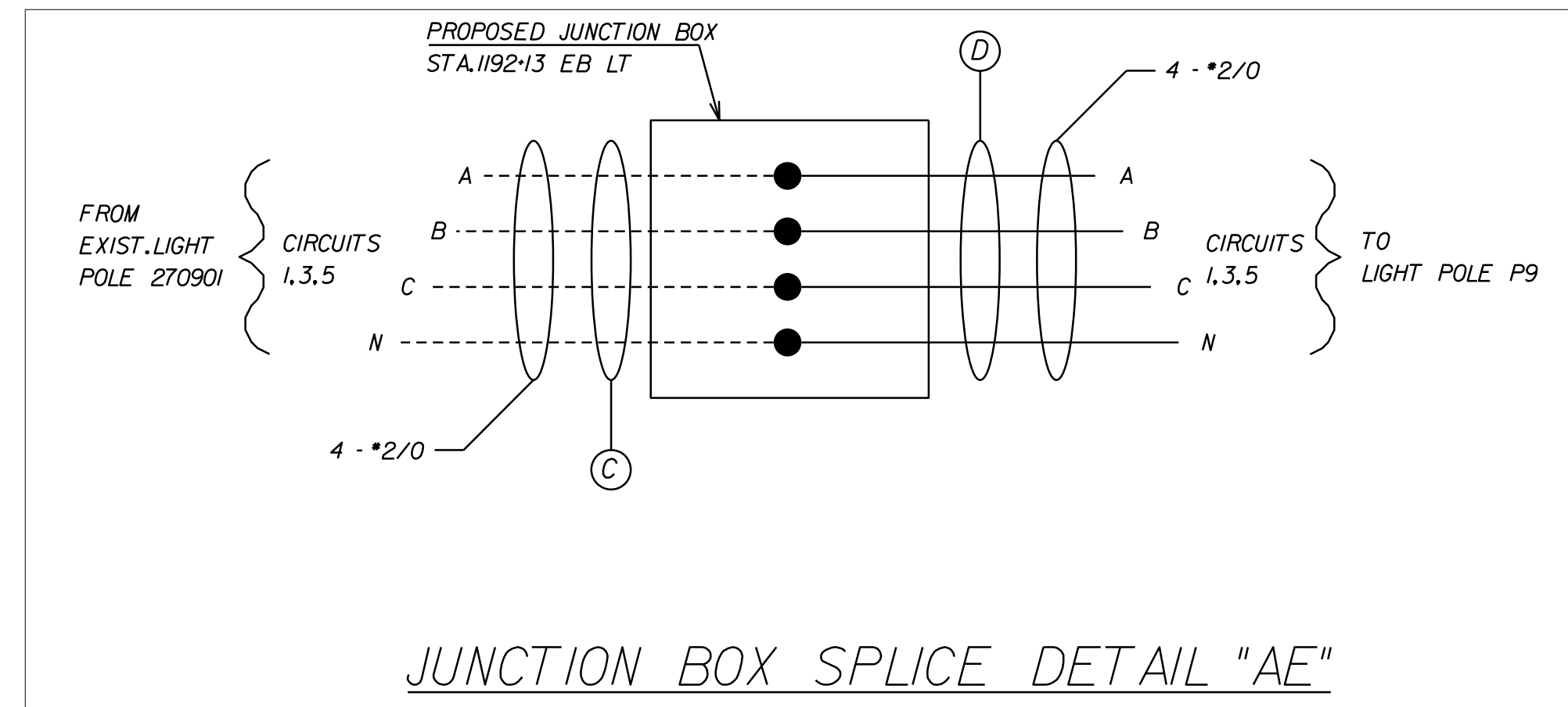
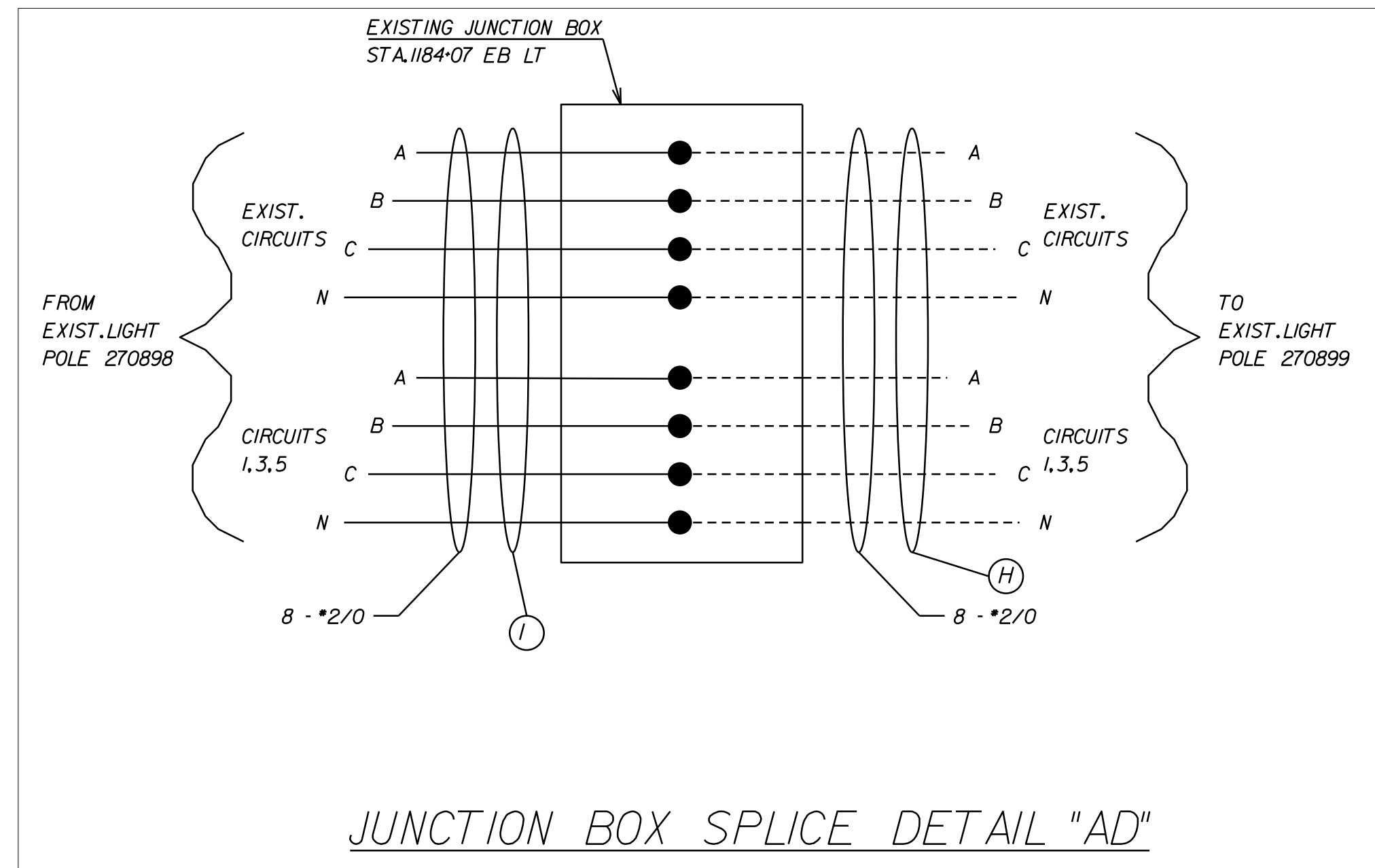
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PROJECT MANAGER: Erin Eoley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineer Inc.
SUBSURFACE UTILITY BY, DATE: N/A

REVISED	STATE	ROUTE	STATE	SHEET NO.
			PROJECT	
	VA.	64	0064-121-418, P101	55(38)A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER



P.H. PLANS

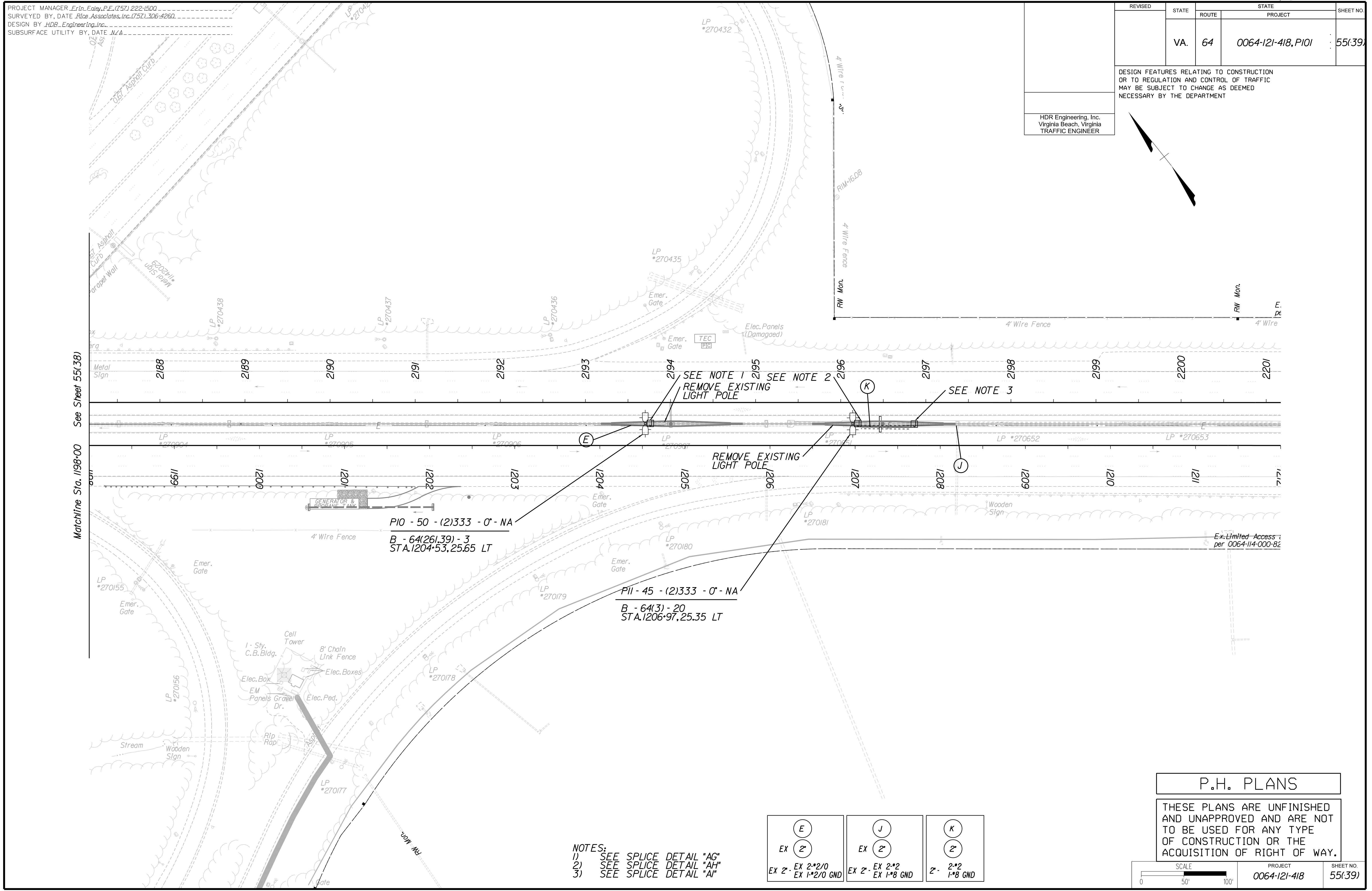
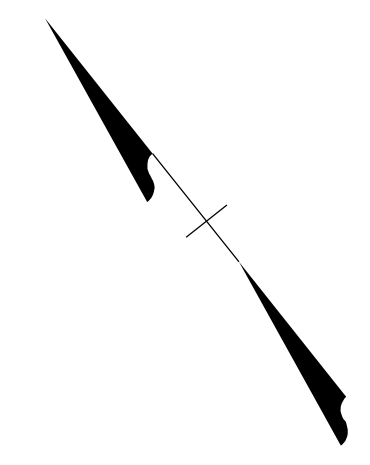
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROJECT MANAGER: Erin Eoley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDR Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: MZA

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	55(39)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER



Matchline Sta. 1198+00 See Sheet 55(38)

PI0 - 50 - (2)333 - 0° - NA
B - 64(261.39) - 3
STA. 1204+53, 25.65 LT

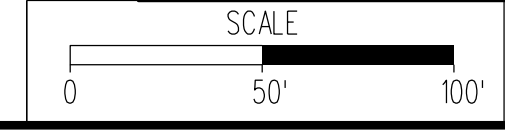
PI1 - 45 - (2)333 - 0° - NA
B - 64(3) - 20
STA. 1206+97, 25.35 LT

- NOTES:
1) SEE SPLICE DETAIL "AG"
2) SEE SPLICE DETAIL "AH"
3) SEE SPLICE DETAIL "AI"

E EX 2' - EX 2*2/0 EX 1*2/0 GND	J EX 2' - EX 2*2 EX 1*8 GND	K 2' - 2*2 1*8 GND
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P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

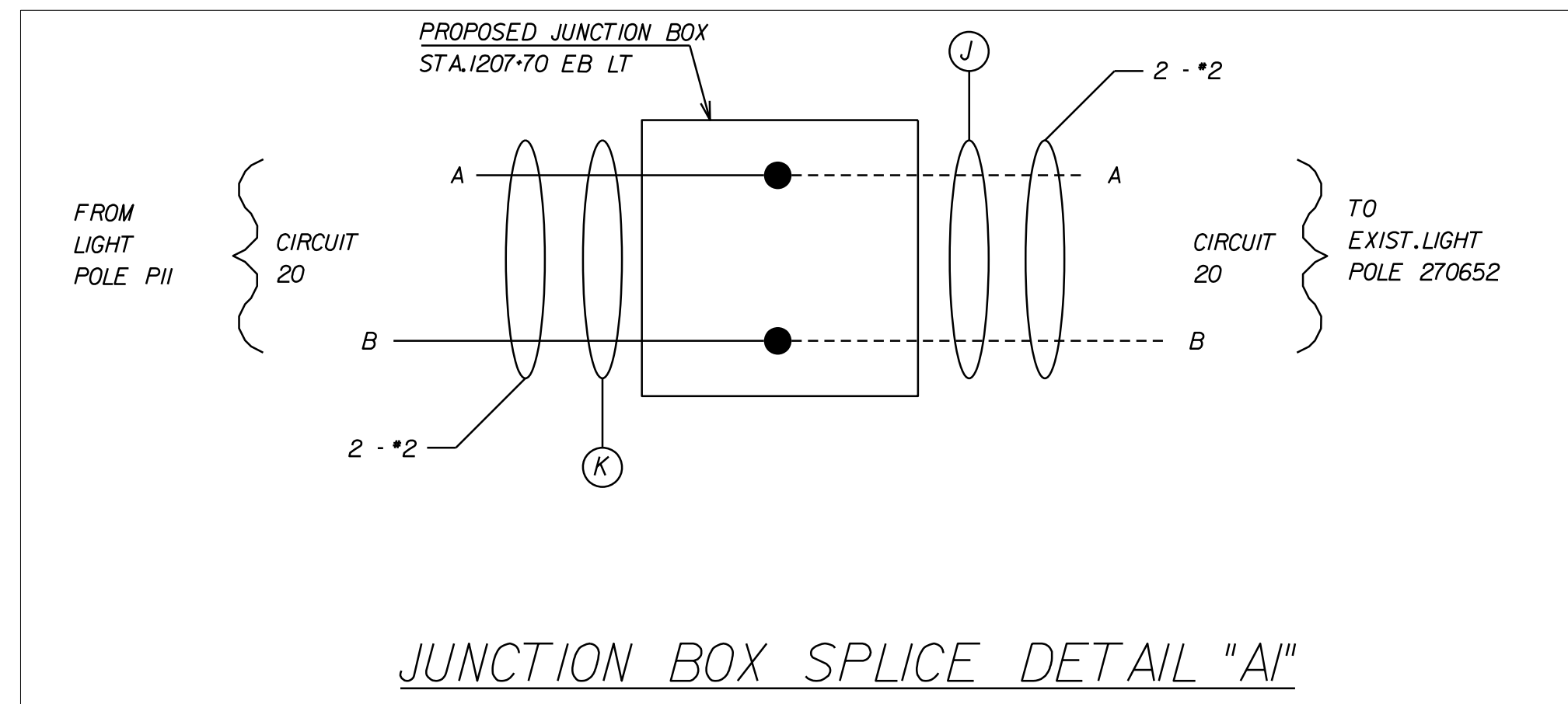
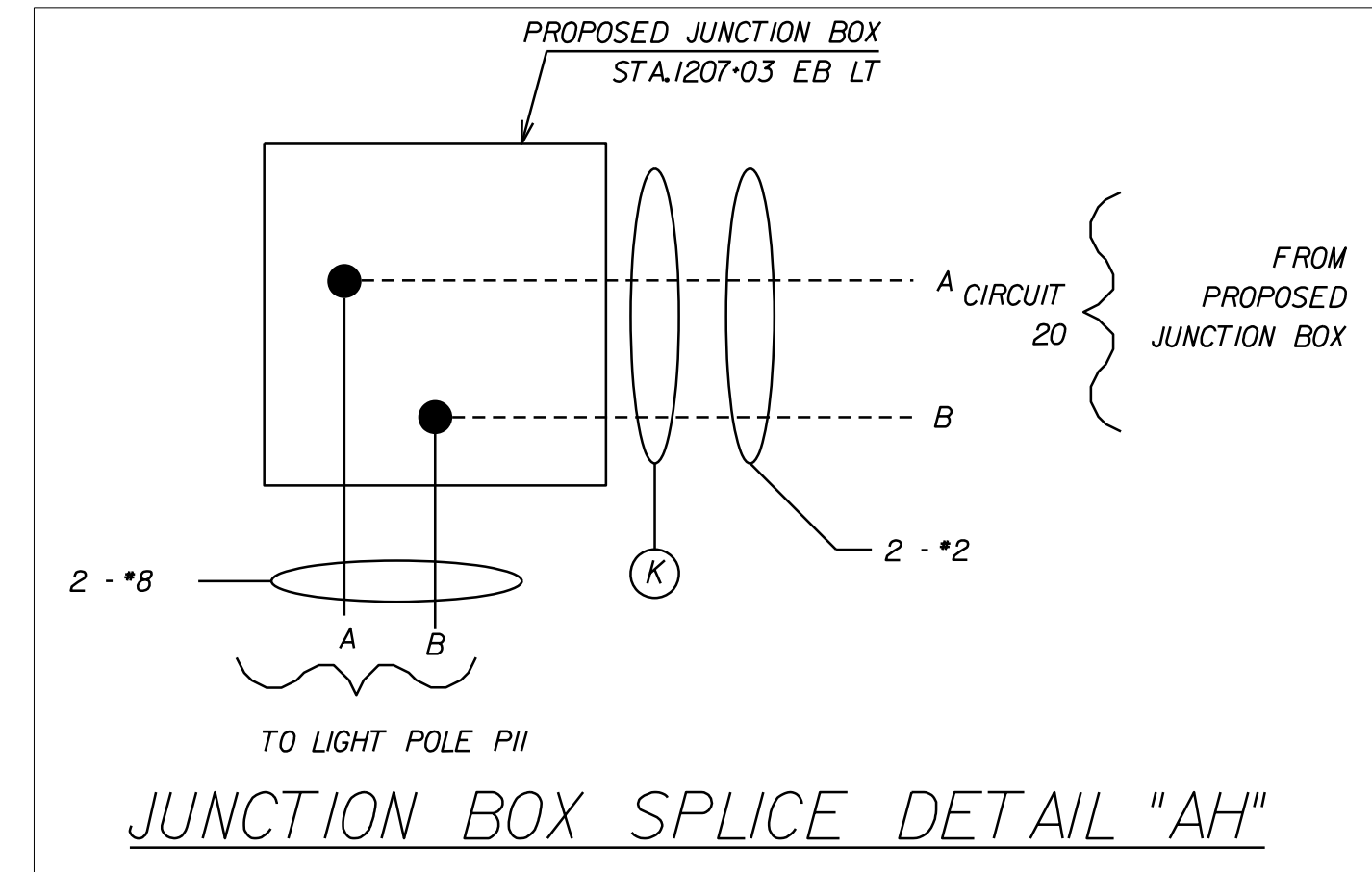
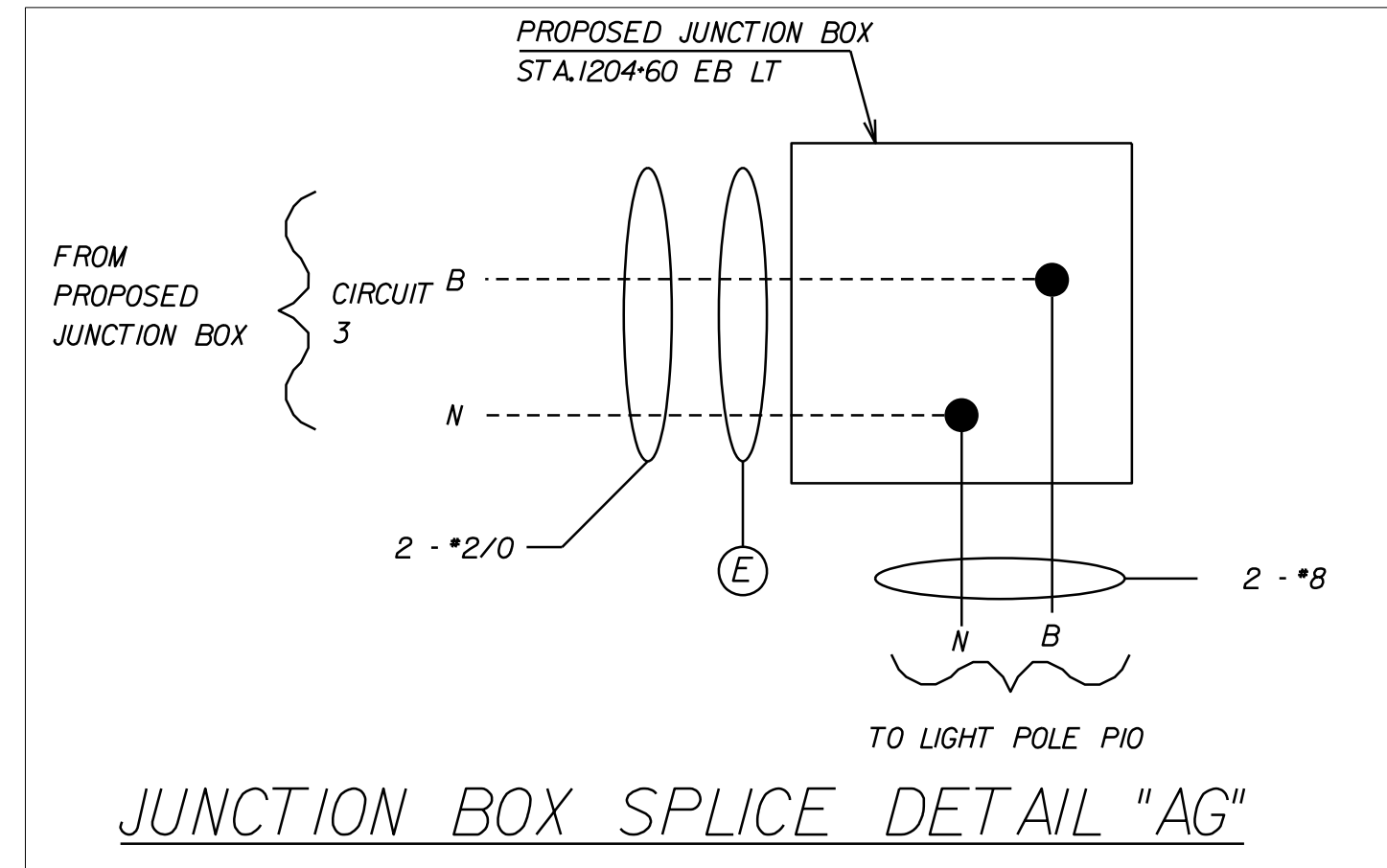


PROJECT MANAGER Erin Eoley, P.E. (757) 222-1500
 SURVEYED BY, DATE Rhee Associates, Inc. (757) 306-4260
 DESIGN BY HDR Engineering, Inc.
 SUBSURFACE UTILITY BY, DATE N/A

REVISED	STATE	ROUTE	STATE	SHEET NO.
			PROJECT	
	VA.	64	0064-121-418, P101	55(39)A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER



P.H. PLANS

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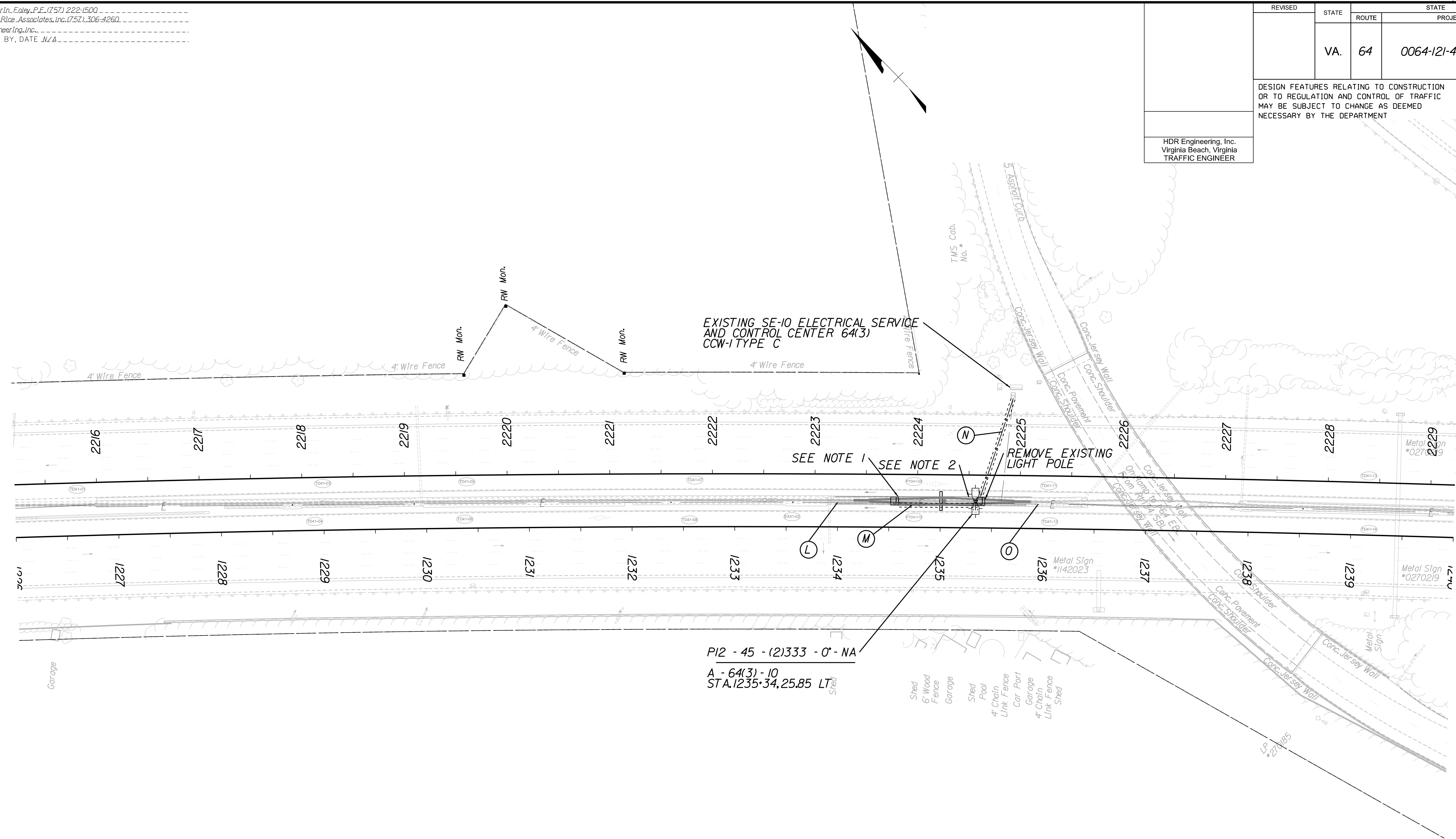
NOT TO SCALE	PROJECT 0064-121-418	SHEET NO. 55(39)A
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PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineer/Insp. Inc.
SUBSURFACE UTILITY BY, DATE: MZA

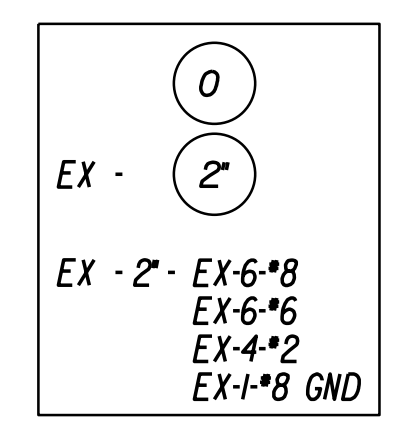
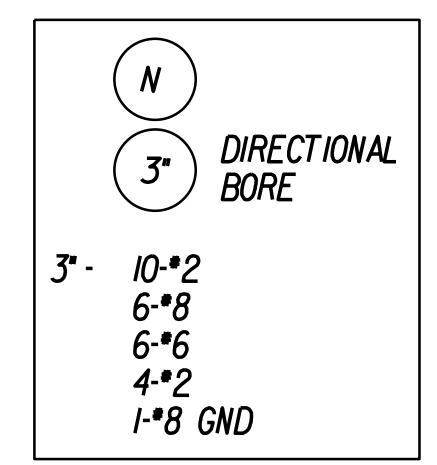
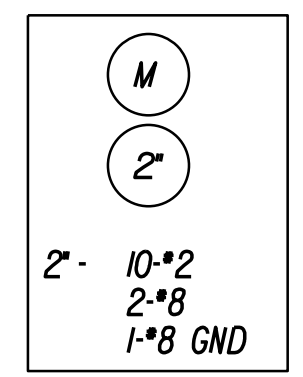
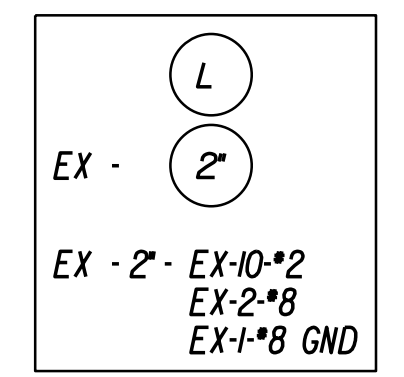
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	55(41)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER

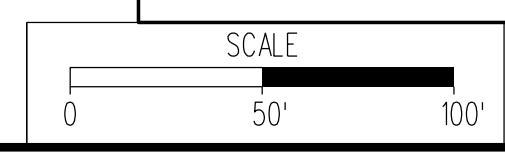


NOTES:
1) SEE SPLICE DETAIL "AJ"
2) SEE SPLICE DETAIL "AK"



P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

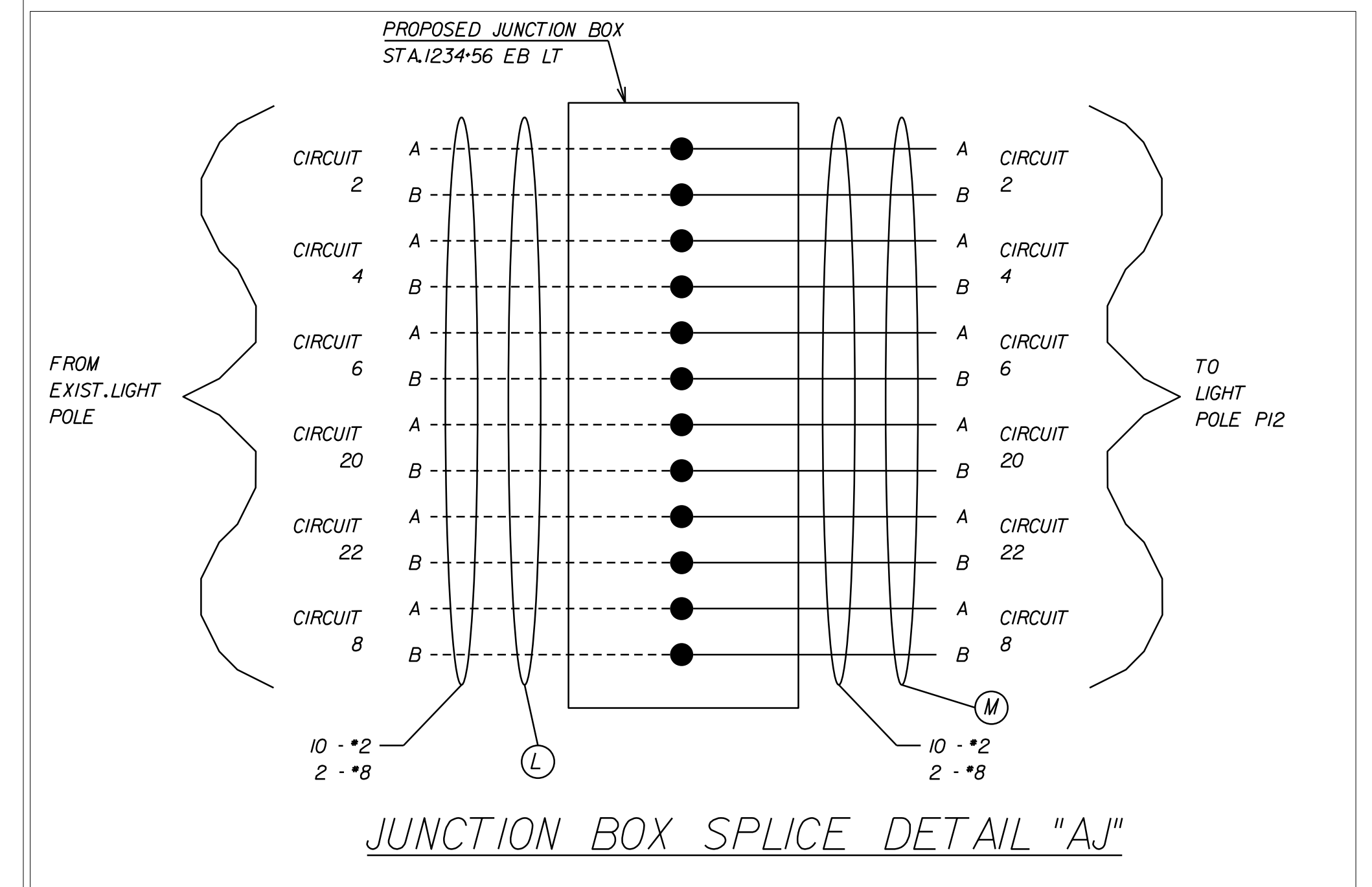
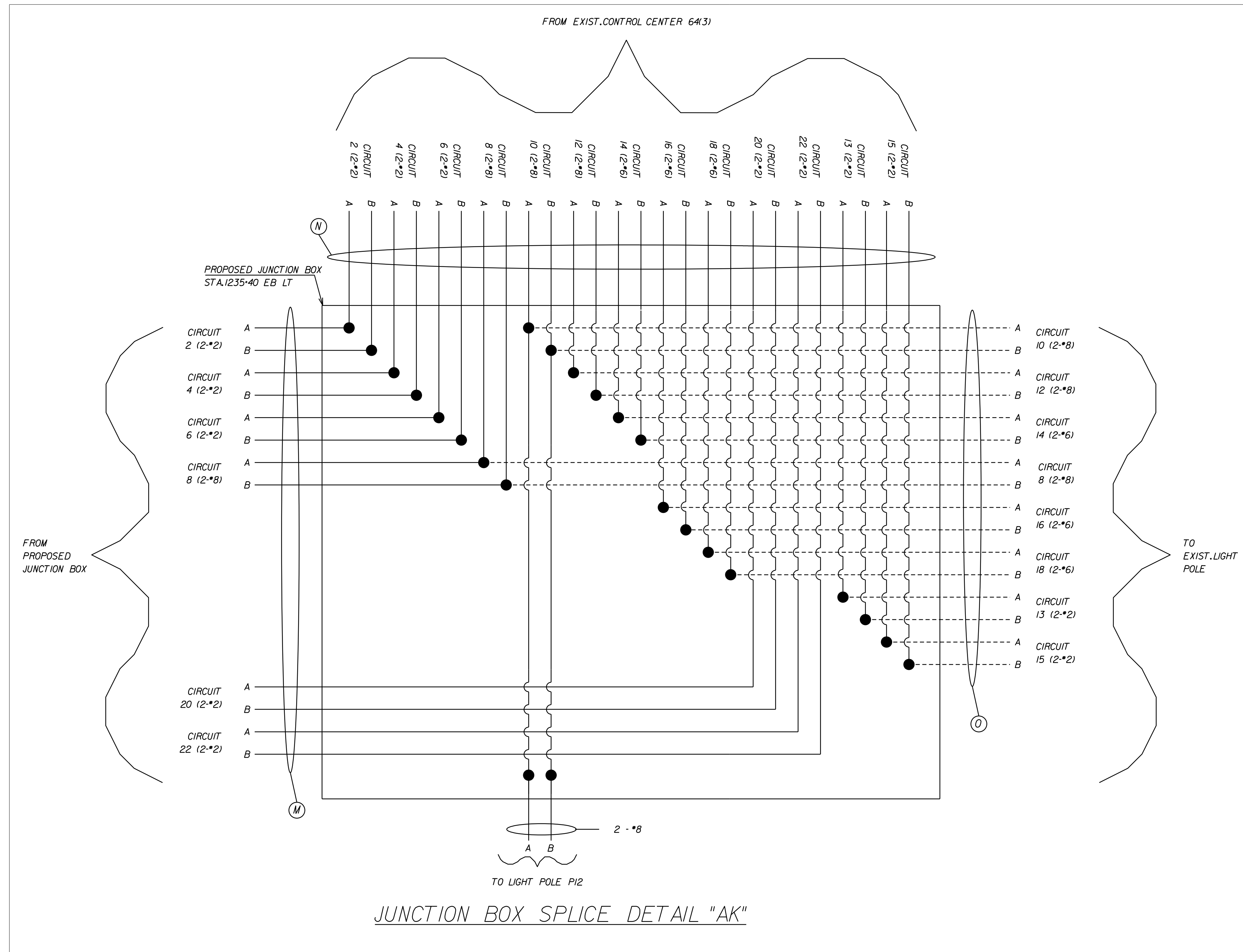


PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: N/A

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	55(4)A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER



P.H. PLANS

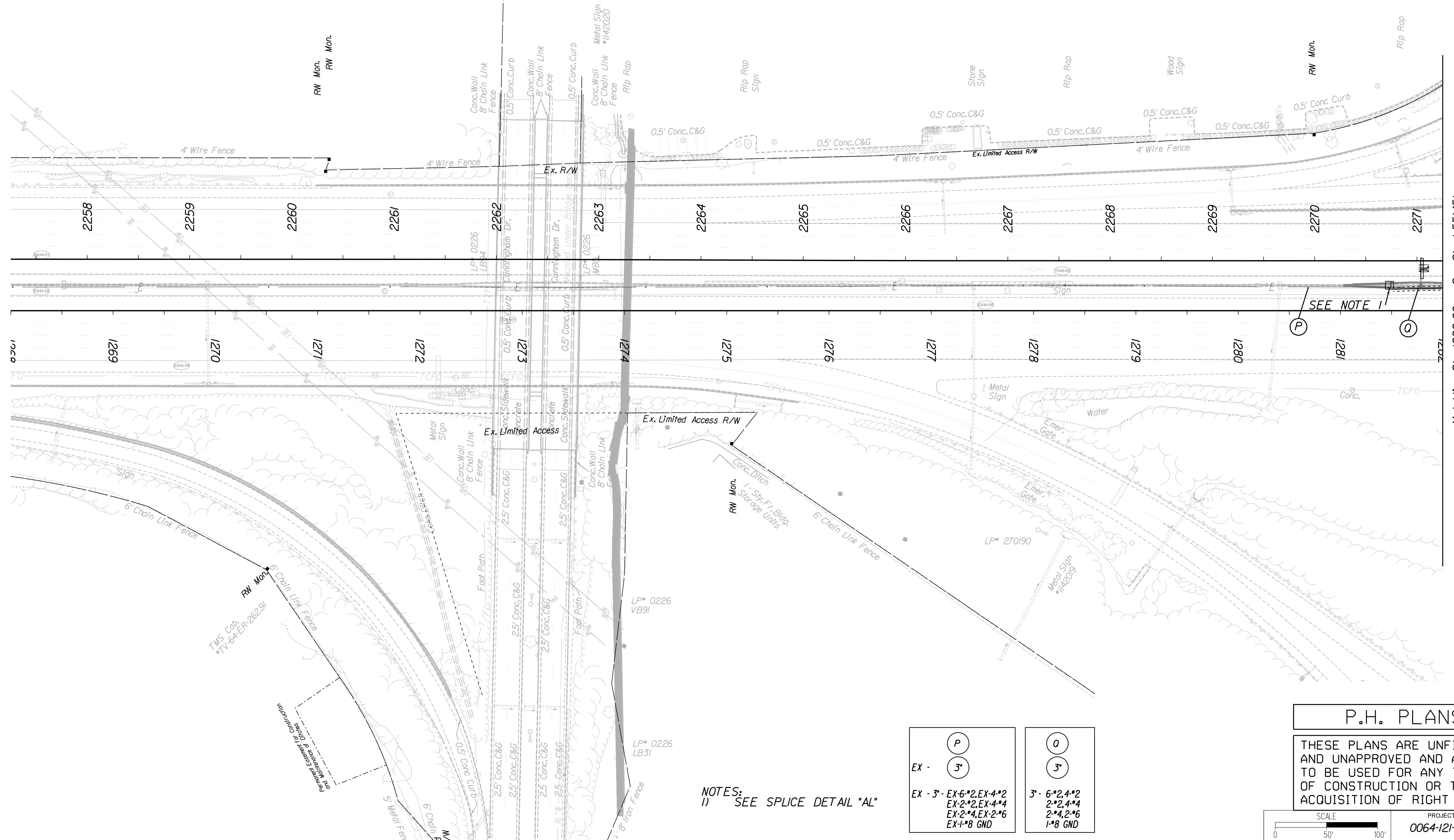
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROJECT MANAGER: Erin Foley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineer Inc.
SUBSURFACE UTILITY BY, DATE: MZA

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	55(44)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER



Matchline Sta. 1282+00 See Sheet 55(45)

SEE NOTE 1
P Q

P 3'	Q 3'
EX - 3' - EX-6*2, EX-4*2 EX-2*2, EX-4*4 EX-2*4, EX-2*6 EX-1*8 GND	3' - 6*2, 4*2 2*2, 4*4 2*4, 2*6 1*8 GND

NOTES:
1) SEE SPlice DETAIL "AL"

P.H. PLANS

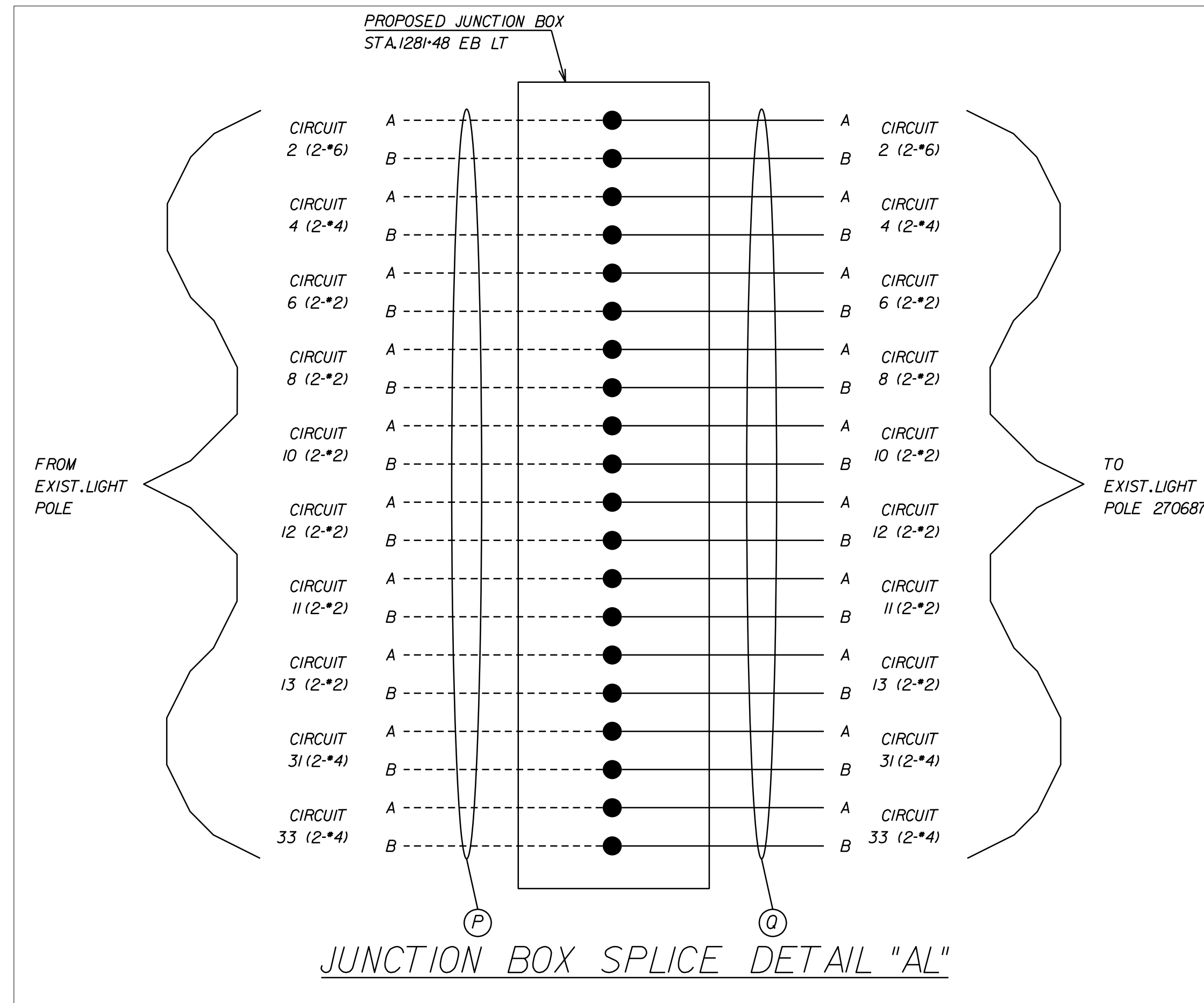
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROJECT MANAGER *Erin Ealey, P.E. (757) 222-1500*
SURVEYED BY, DATE *Ricoe Associates, Inc. (757) 306-4260*
DESIGN BY *HDR Engineering, Inc.*
SUBSURFACE UTILITY BY, DATE *N/A*

REVISED	STATE	ROUTE	STATE	SHEET NO.
			PROJECT	
	VA.	64	0064-121-418, P101	55(44)A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER



P.H. PLANS

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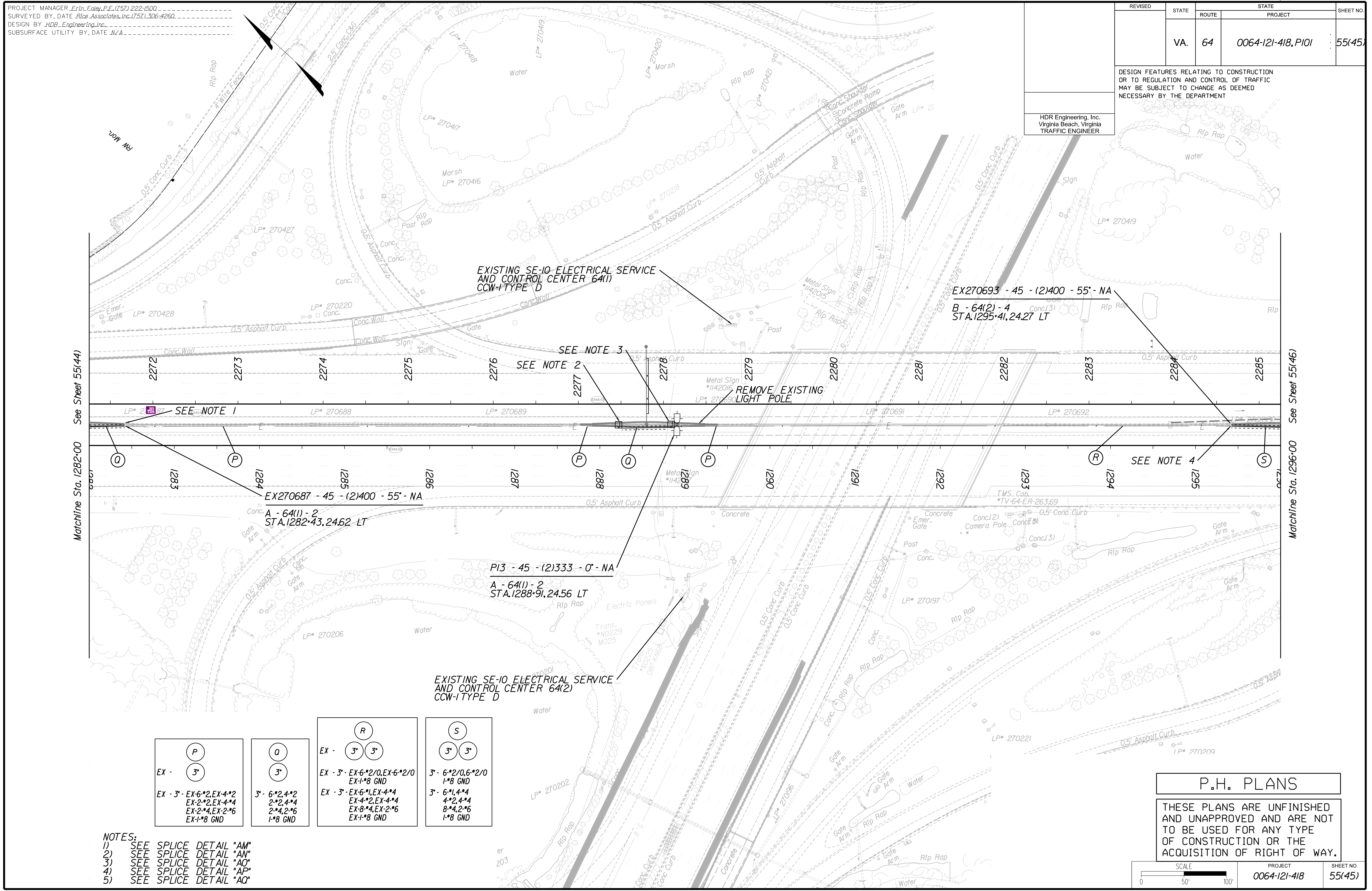
NOT TO SCALE	PROJECT 0064-121-418	SHEET NO. 55(44)A
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PROJECT MANAGER: Erin Eoley, P.E. (757) 222-1500
SURVEYED BY: DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR Engineering, Inc.
SUBSURFACE UTILITY BY: DATE: MZA

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	64		0064-121-418, P101	55(45)

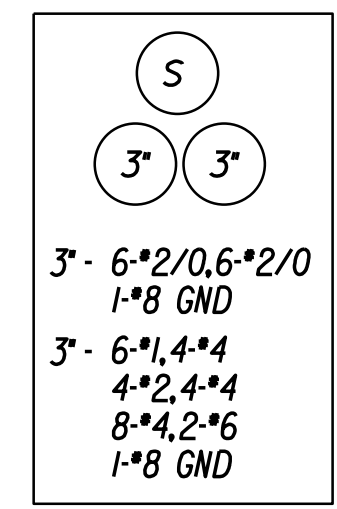
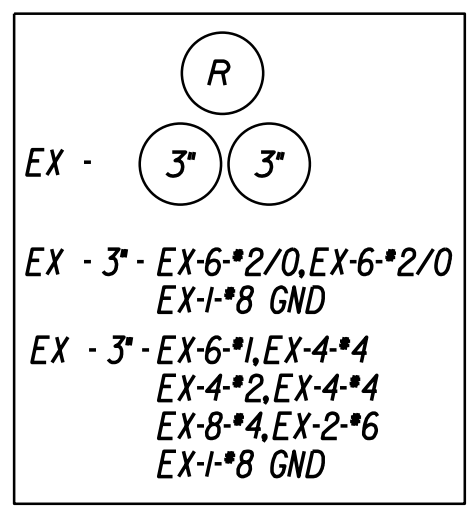
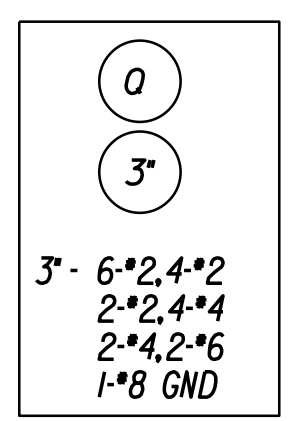
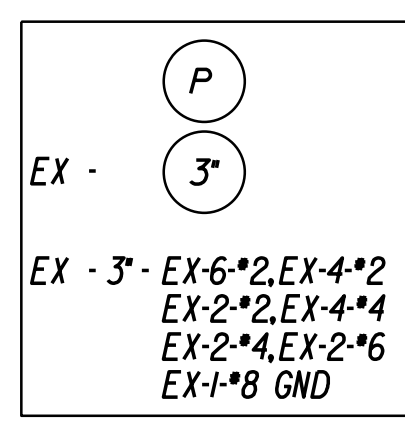
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER



Matchline Sta. 1282+00 See Sheet 55(44)

Matchline Sta. 1296+00 See Sheet 55(46)



- NOTES:
1) SEE SPLICE DETAIL "AM"
2) SEE SPLICE DETAIL "AN"
3) SEE SPLICE DETAIL "AO"
4) SEE SPLICE DETAIL "AP"
5) SEE SPLICE DETAIL "AQ"

P.H. PLANS

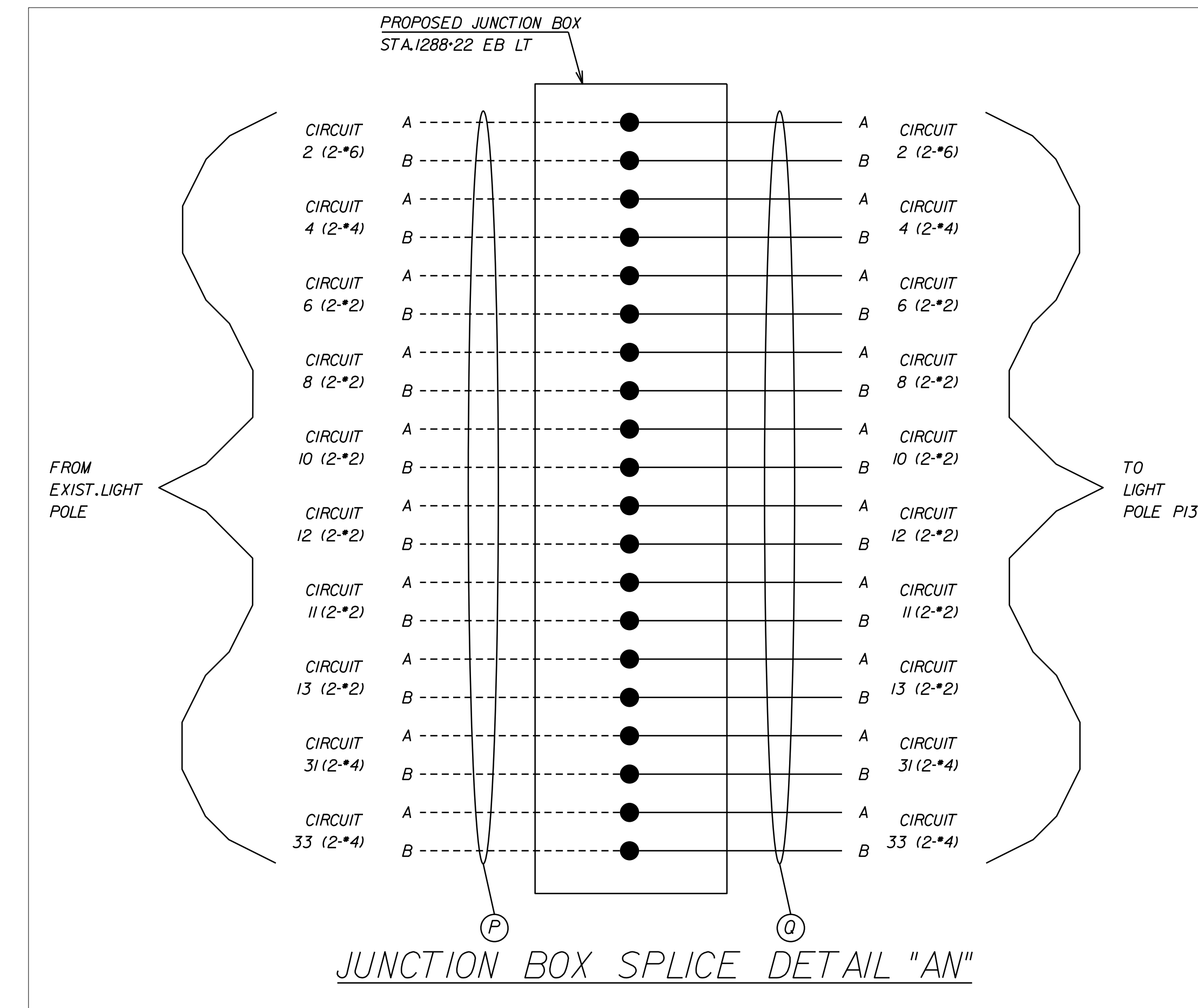
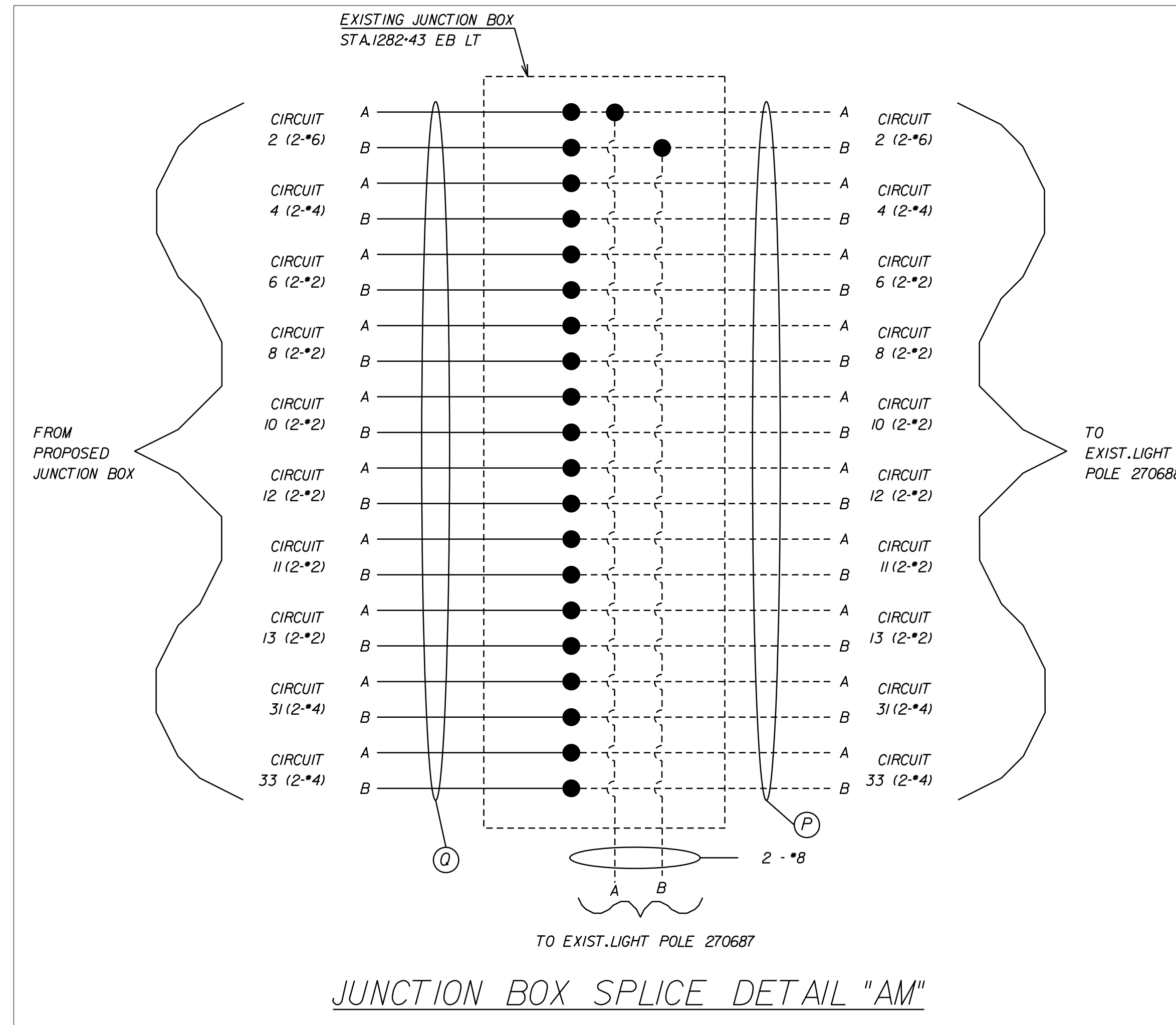
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROJECT MANAGER: Erin Foley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDR Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: N/A

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	55(45)A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER



P.H. PLANS

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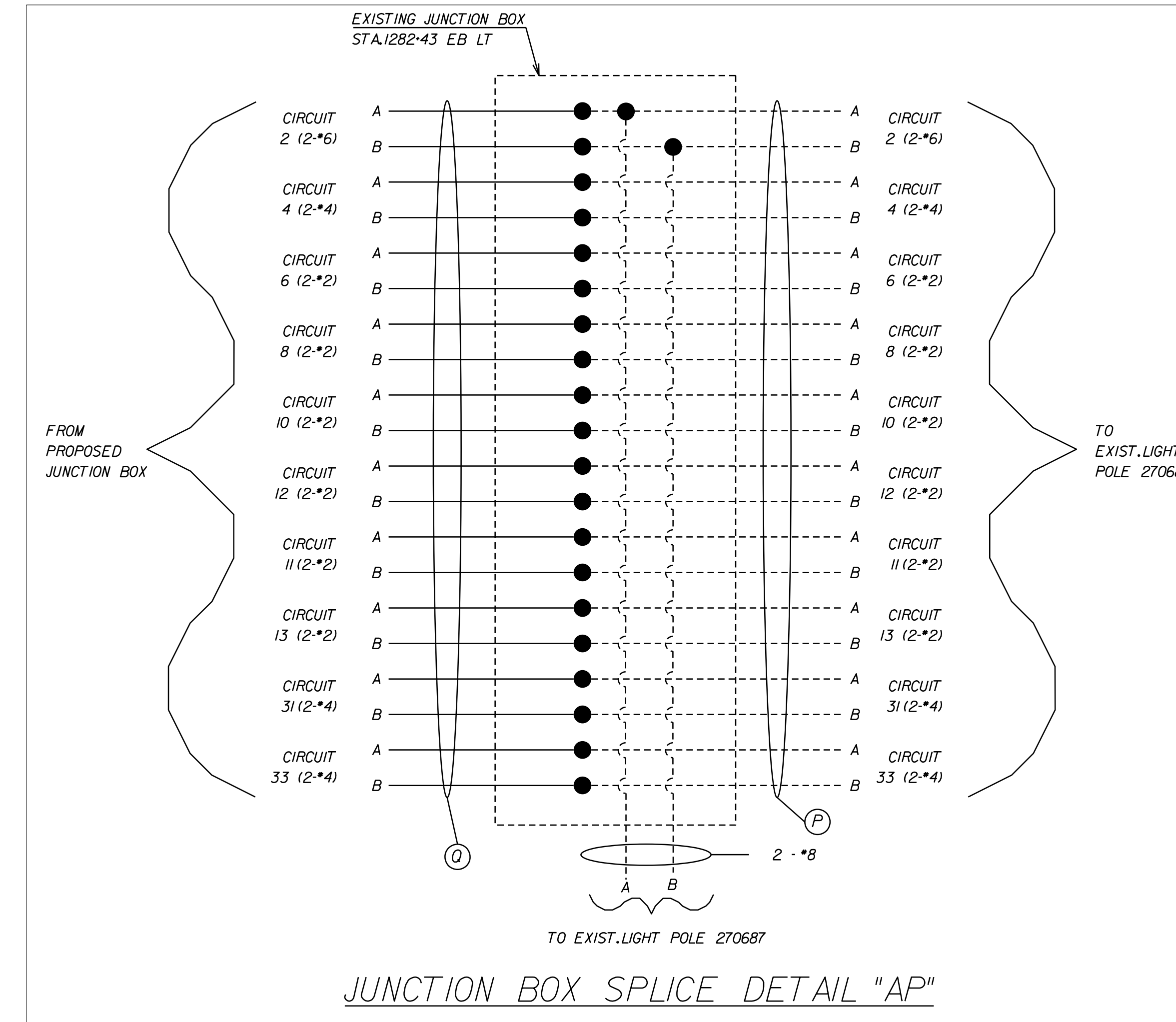
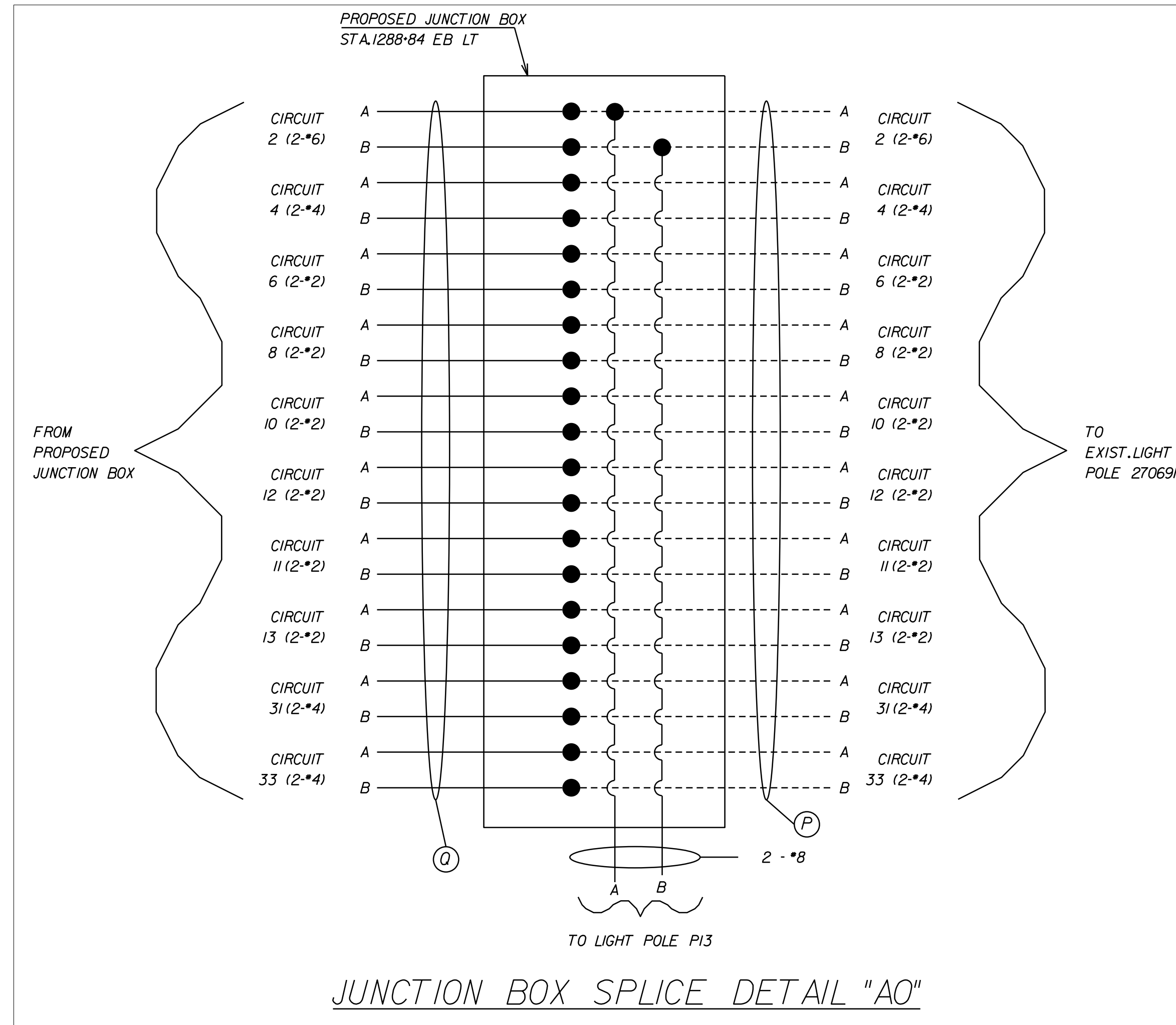
NOT TO SCALE	PROJECT 0064-121-418	SHEET NO. 55(45)A
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PROJECT MANAGER: Erin Eoley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDR Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: N/A

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	55(45)B

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER



P.H. PLANS

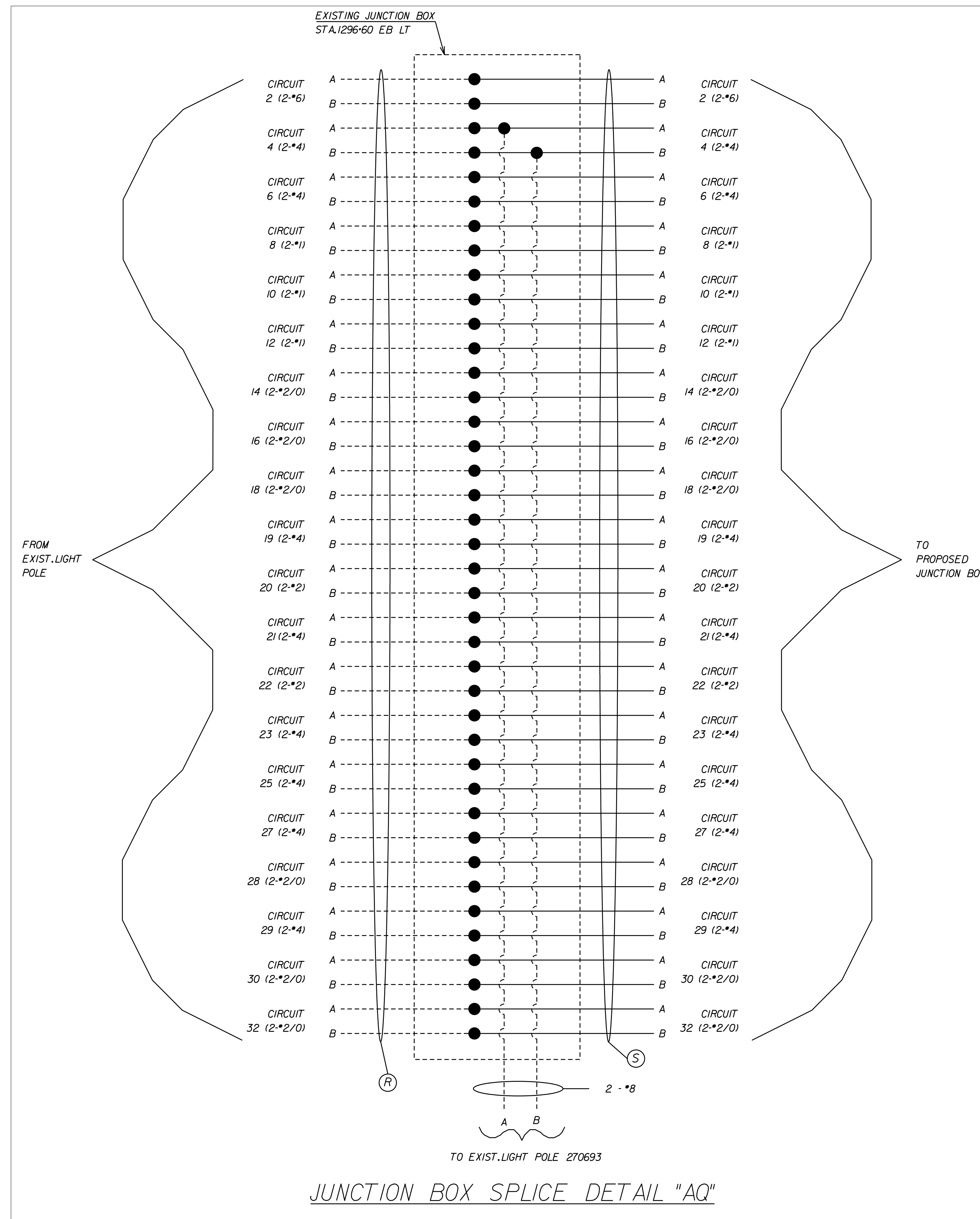
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: N/A

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	55(45)C

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER



P.H. PLANS

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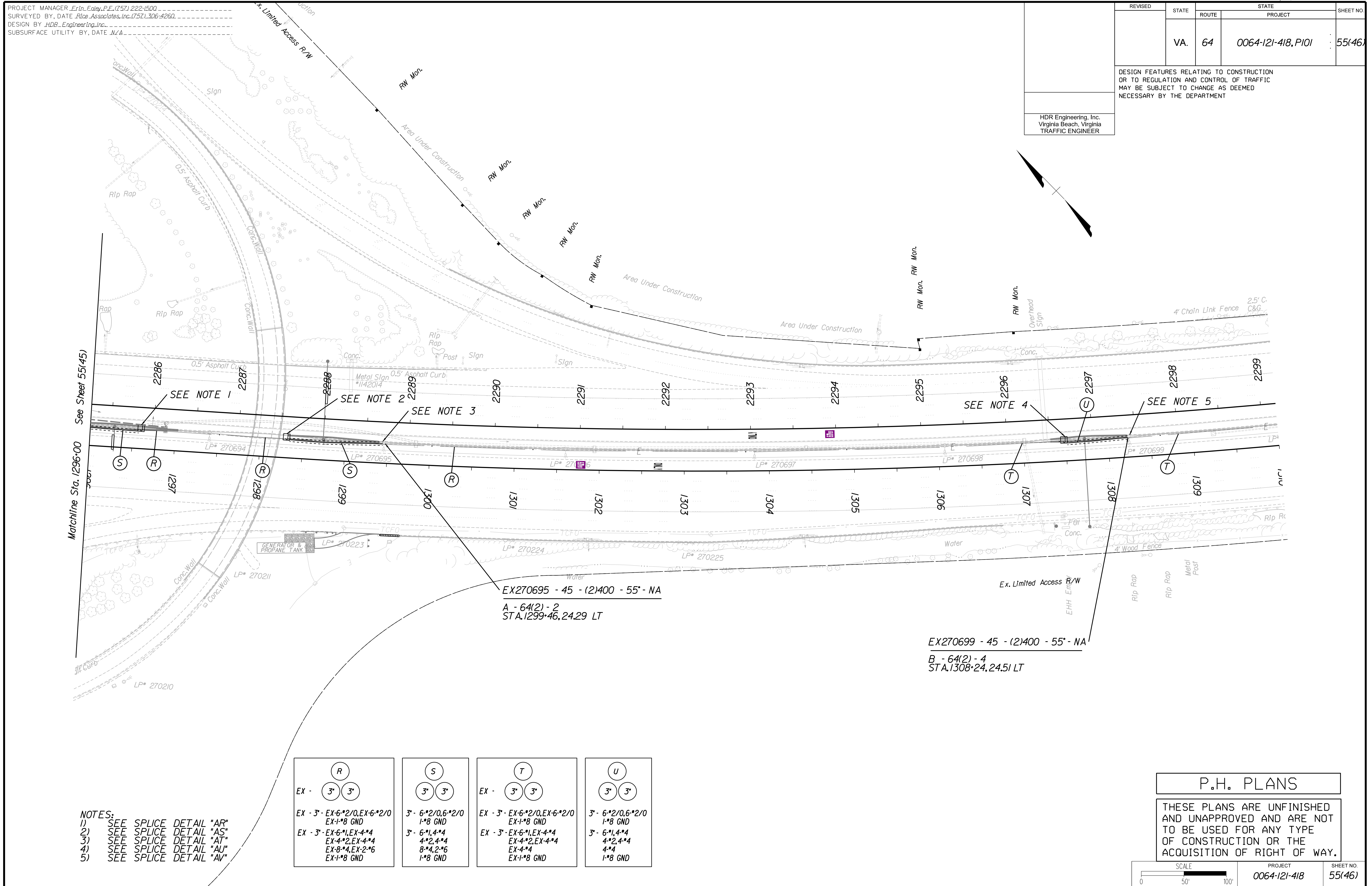
NOT TO SCALE	PROJECT 0064-121-418	SHEET NO. 55(45)C
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PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDR Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: MZA

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	64		0064-121-418, P101	55(46)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER



Matchline Sta. 1296-00 See Sheet 55(45)

SEE NOTE 1

SEE NOTE 2

SEE NOTE 3

SEE NOTE 4

SEE NOTE 5

EX270695 - 45 - (2)400 - 55' - NA
A - 64(2) - 2
STA. 1299+46, 24.29 LT

EX270699 - 45 - (2)400 - 55' - NA
B - 64(2) - 4
STA. 1308+24, 24.51 LT

- NOTES:
- 1) SEE SPLICE DETAIL "AR"
 - 2) SEE SPLICE DETAIL "AS"
 - 3) SEE SPLICE DETAIL "AT"
 - 4) SEE SPLICE DETAIL "AU"
 - 5) SEE SPLICE DETAIL "AV"

<p>(R)</p> <p>EX - 3' - 3" 3"</p>	<p>(S)</p> <p>EX - 3' - 6" 2/0, 6" 2/0 EX - 1" 8 GND</p> <p>EX - 3' - 6" 1, 4" 4 EX - 4" 2, EX - 4" 4 EX - 8" 4, EX - 2" 6 EX - 1" 8 GND</p>	<p>(T)</p> <p>EX - 3' - EX - 6" 2/0, EX - 6" 2/0 EX - 1" 8 GND</p> <p>EX - 3' - EX - 6" 1, EX - 4" 4 EX - 4" 2, EX - 4" 4 EX - 4" 4 EX - 1" 8 GND</p>	<p>(U)</p> <p>EX - 3' - 6" 2/0, 6" 2/0 EX - 1" 8 GND</p> <p>EX - 3' - 6" 1, 4" 4 EX - 4" 2, 4" 4 EX - 4" 4 EX - 1" 8 GND</p>
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P.H. PLANS

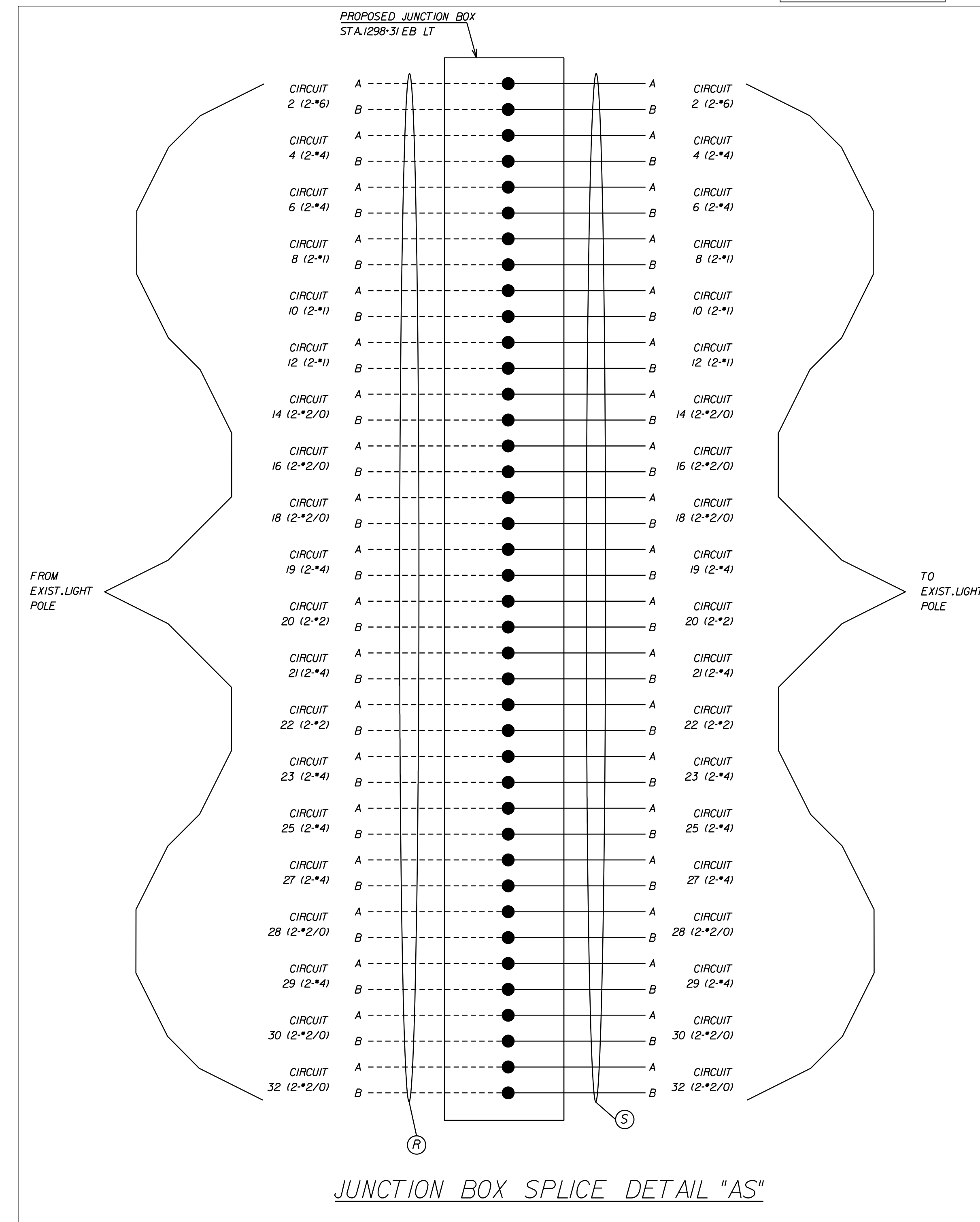
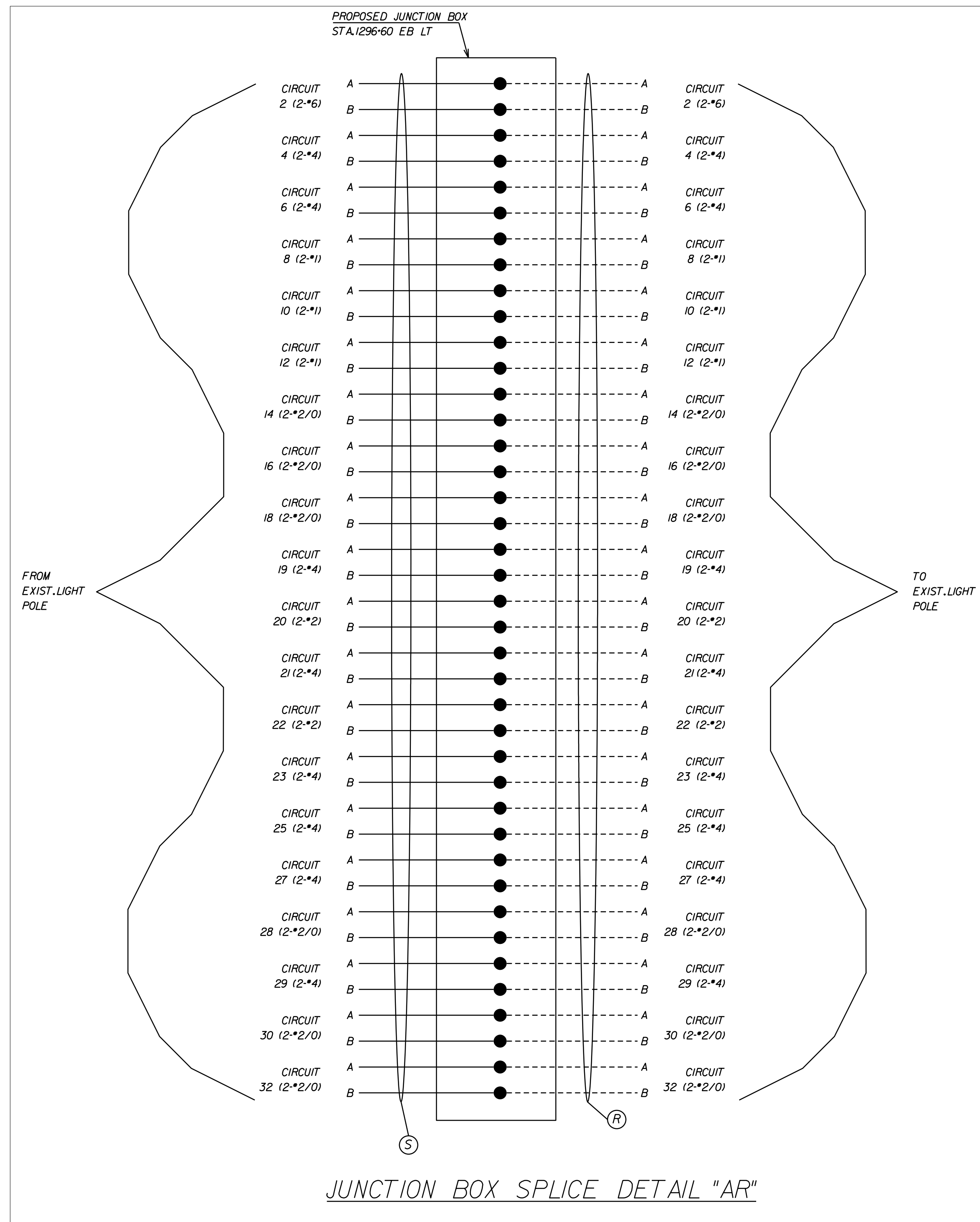
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROJECT MANAGER: *Erin Ealey, P.E. (757) 222-1500*
 SURVEYED BY, DATE: *Rise Associates, Inc. (757) 306-4260*
 DESIGN BY: *HDR Engineering, Inc.*
 SUBSURFACE UTILITY BY, DATE: *N/A*

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	55(46)A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER



P.H. PLANS

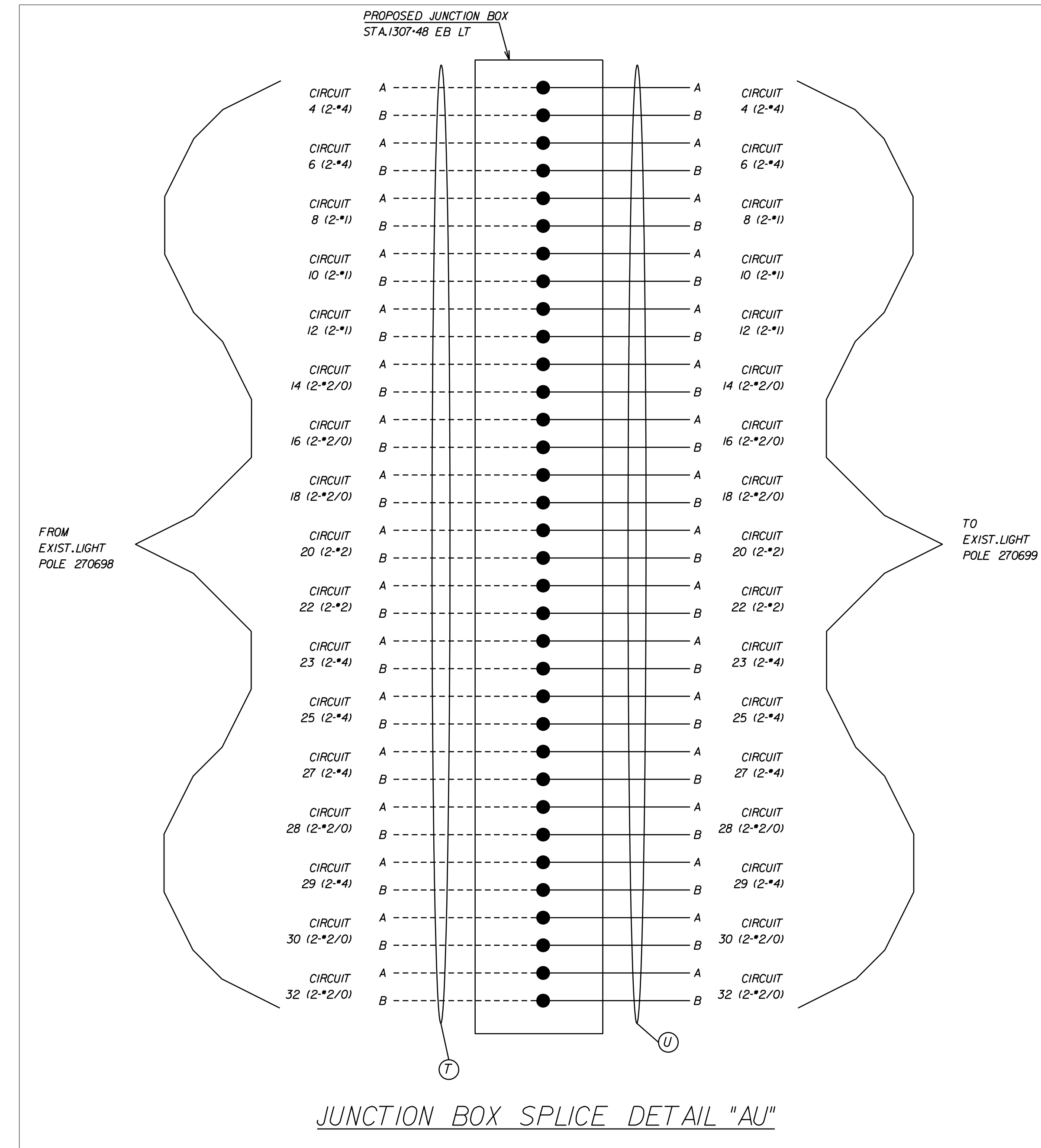
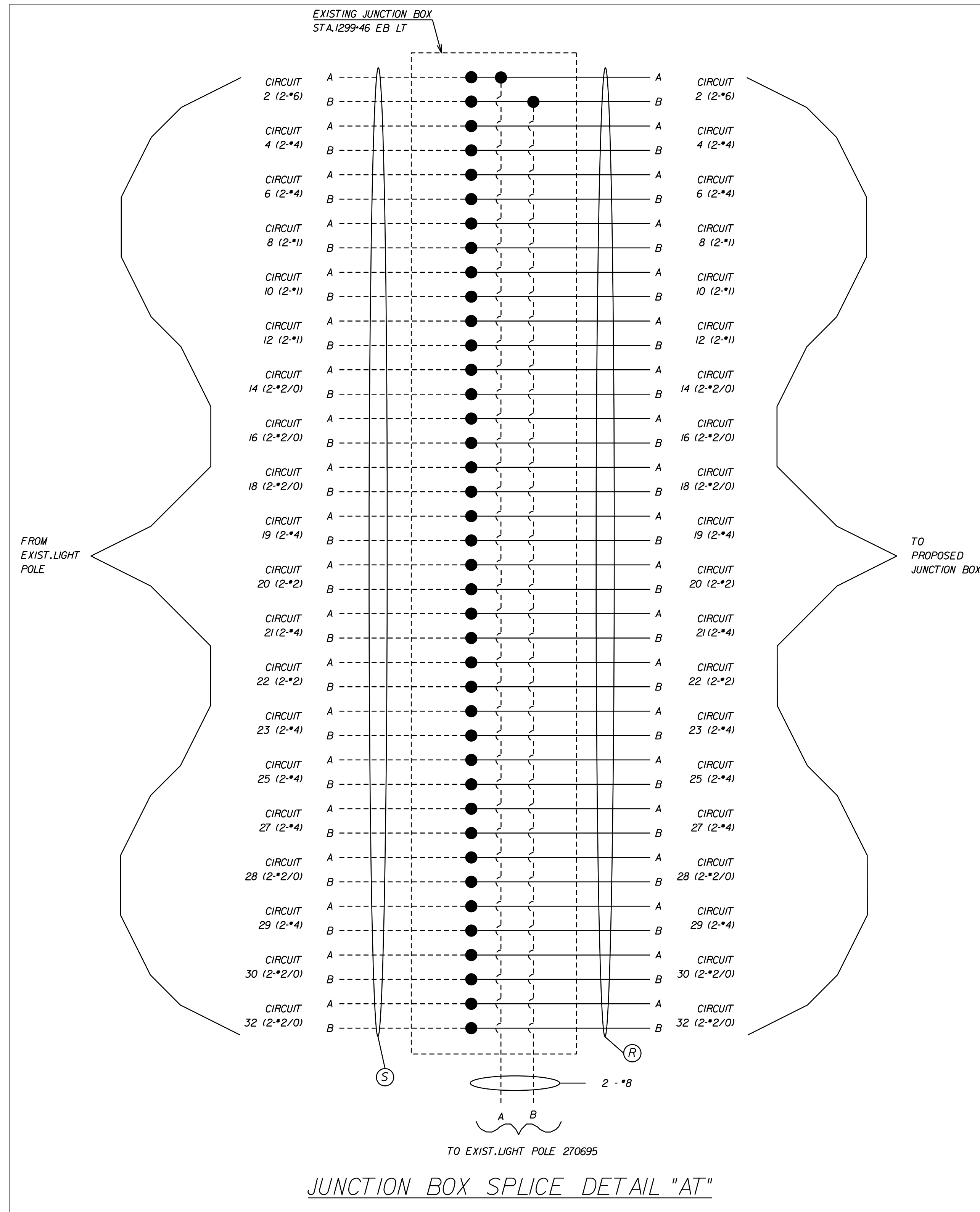
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROJECT MANAGER: *Erin Ealey, P.E. (757) 222-1500*
SURVEYED BY, DATE: *Rise Associates, Inc. (757) 306-4260*
DESIGN BY: *HDR, Engineer Inc.*
SUBSURFACE UTILITY BY, DATE: *N/A*

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	55(46)B

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER



P.H. PLANS

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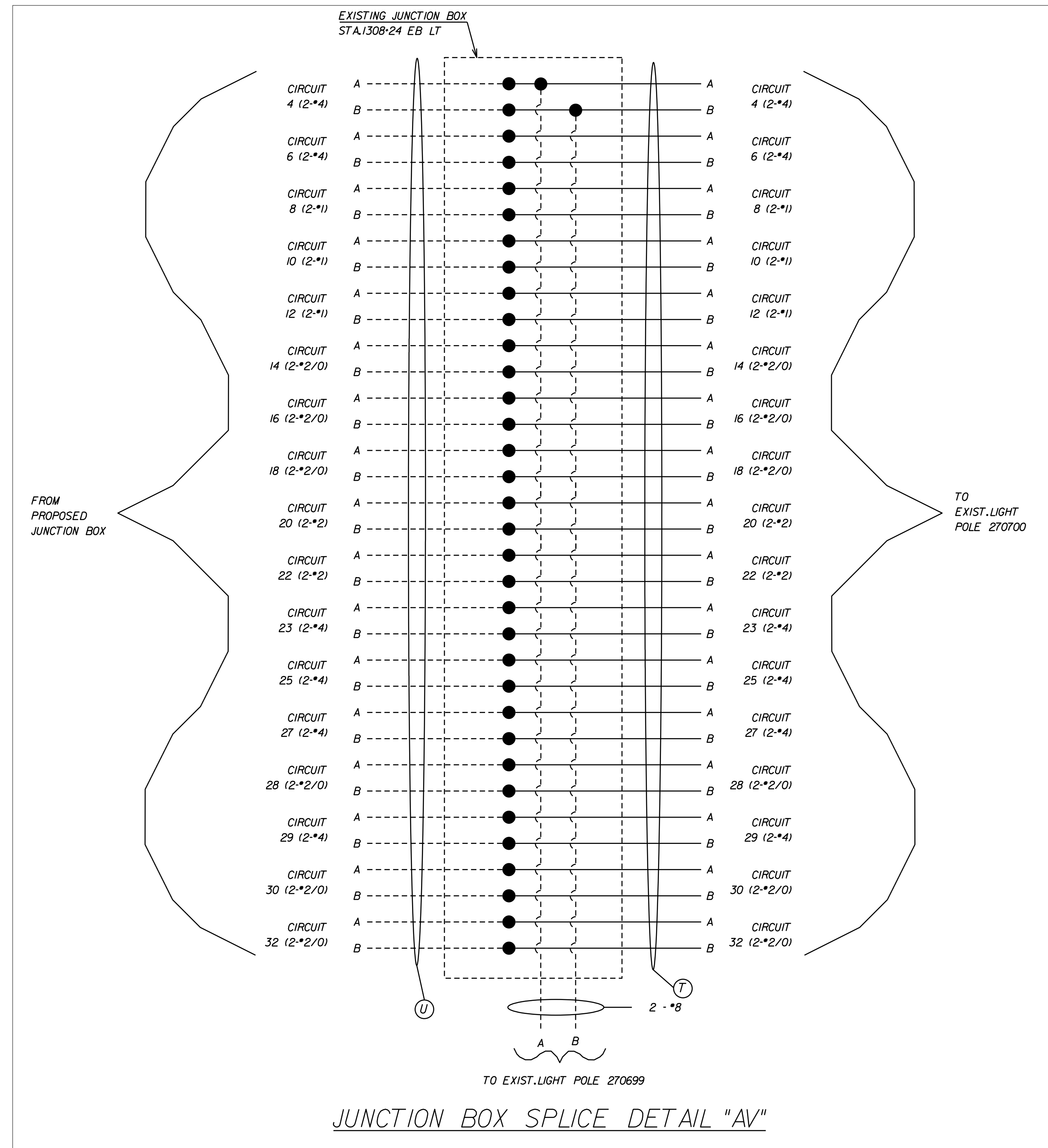
NOT TO SCALE	PROJECT 0064-121-418	SHEET NO. 55(46)B
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PROJECT MANAGER *Erin Foley, P.E. (757) 222-1500*
SURVEYED BY, DATE *Rice Associates, Inc. (757) 306-4260*
DESIGN BY *HDR Engineering, Inc.*
SUBSURFACE UTILITY BY, DATE *N/A*

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	55(46)C

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER



P.H. PLANS

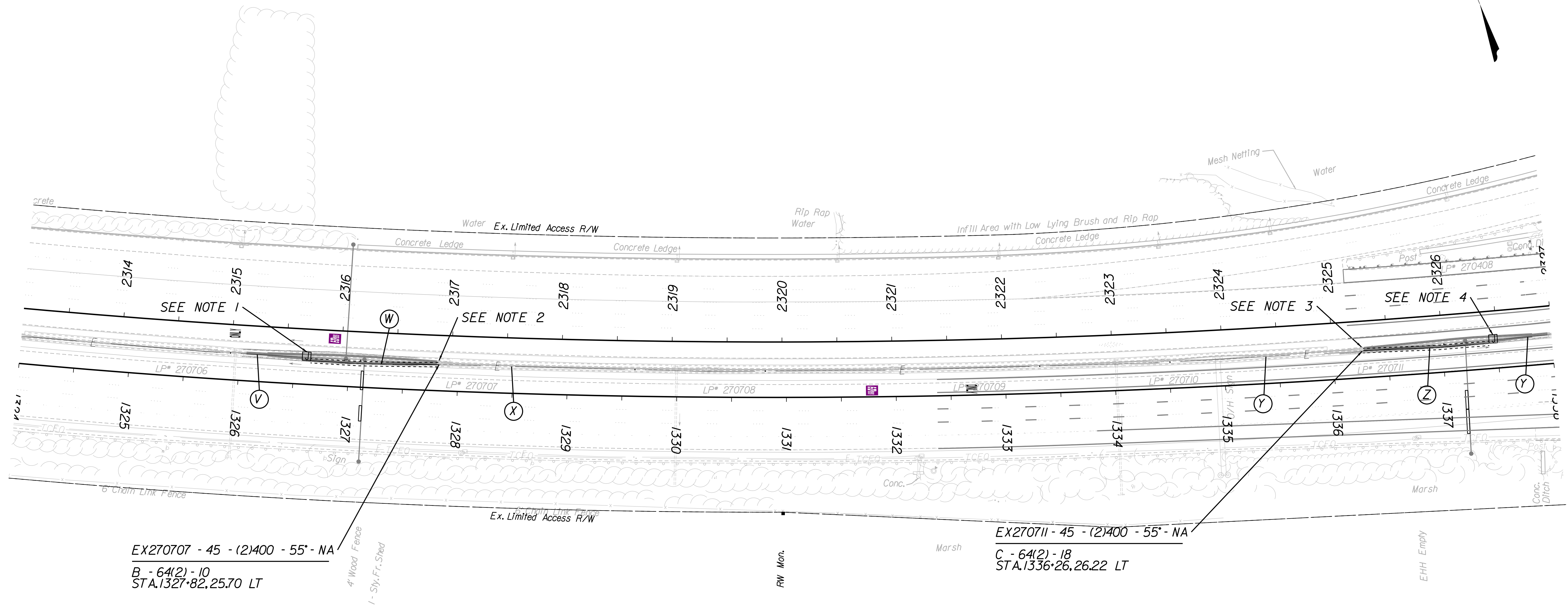
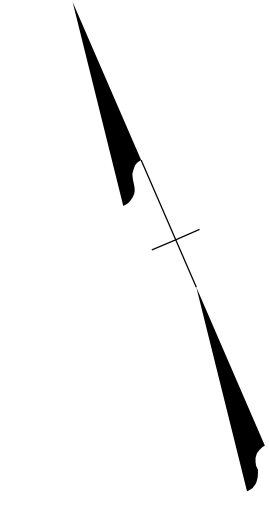
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROJECT MANAGER: Erin Foley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: MZA

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	55(48)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

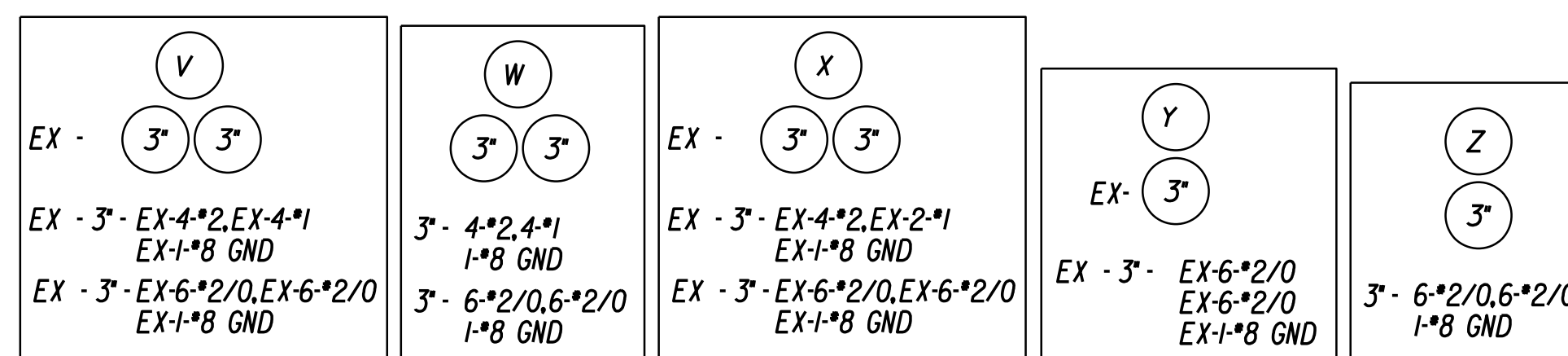
HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER



EX270707 - 45 - (2)400 - 55" - NA
B - 64(2) - 10
STA. 1327+82, 25.70 LT

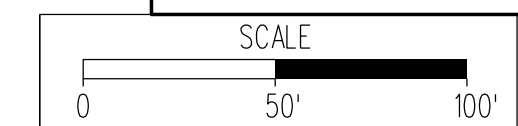
EX270711 - 45 - (2)400 - 55" - NA
C - 64(2) - 18
STA. 1336+26, 26.22 LT

- NOTES:
1) SEE SPLICE DETAIL "AW"
2) SEE SPLICE DETAIL "AX"
3) SEE SPLICE DETAIL "AY"
4) SEE SPLICE DETAIL "AZ"



P.H. PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

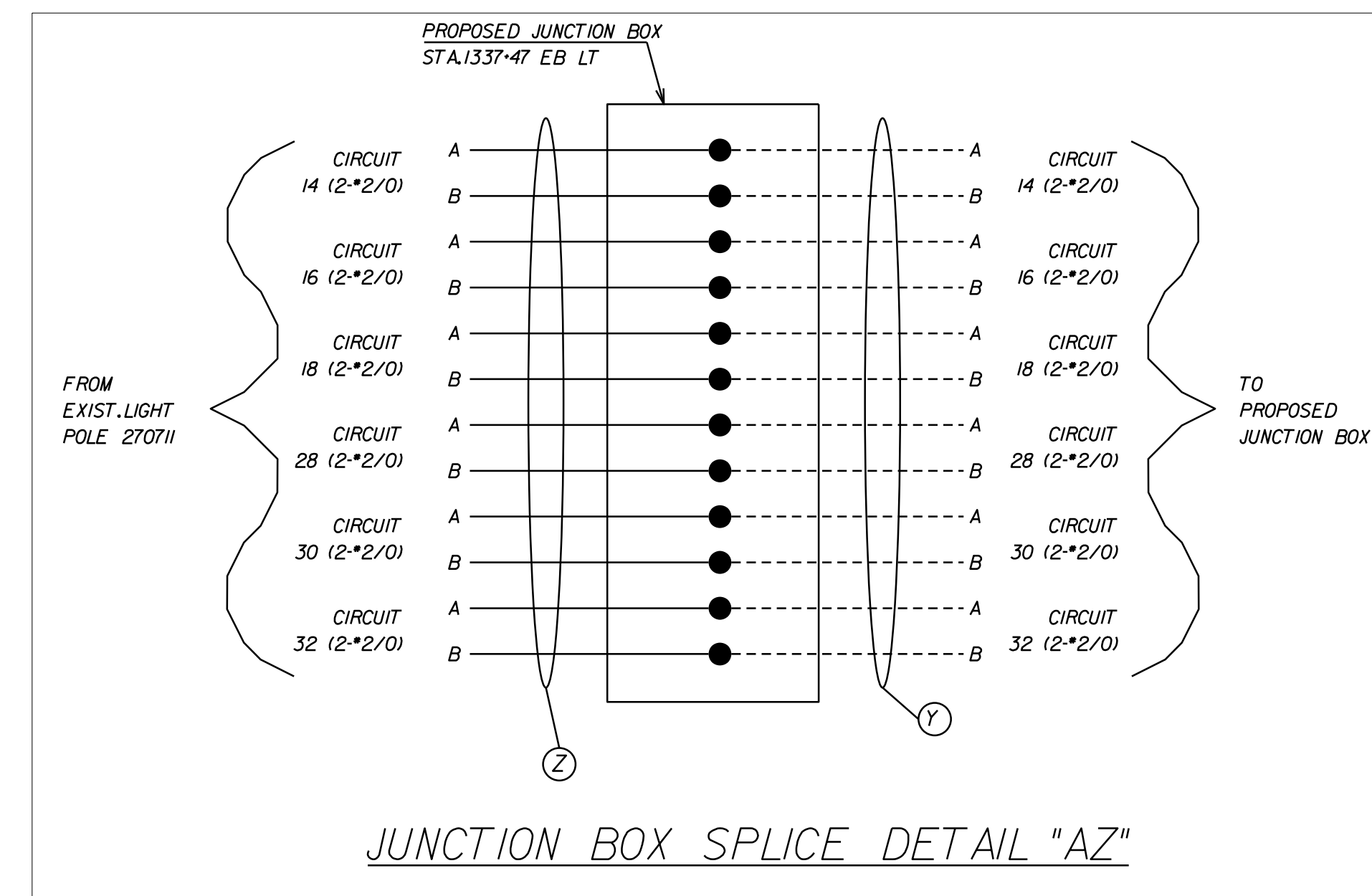
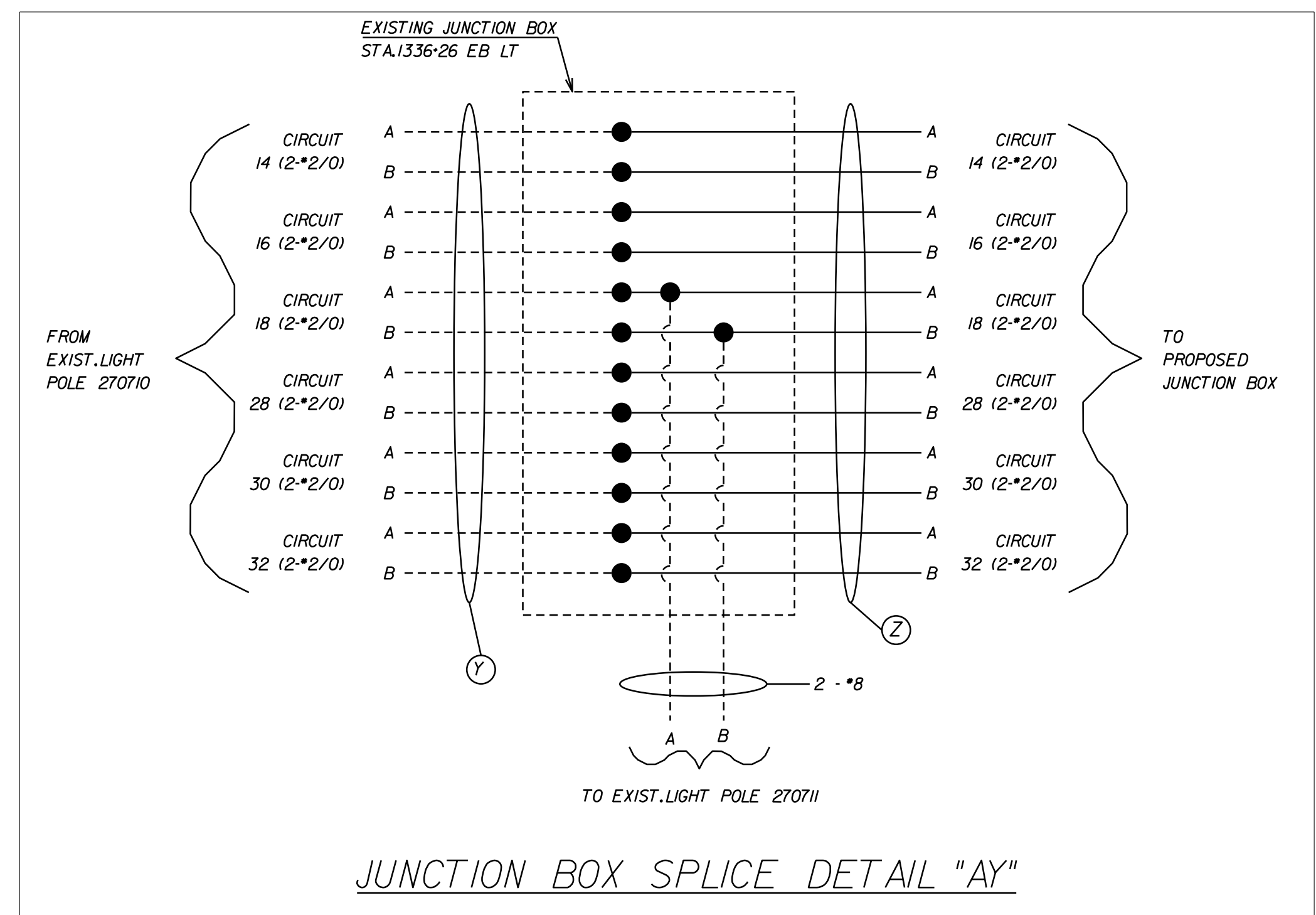
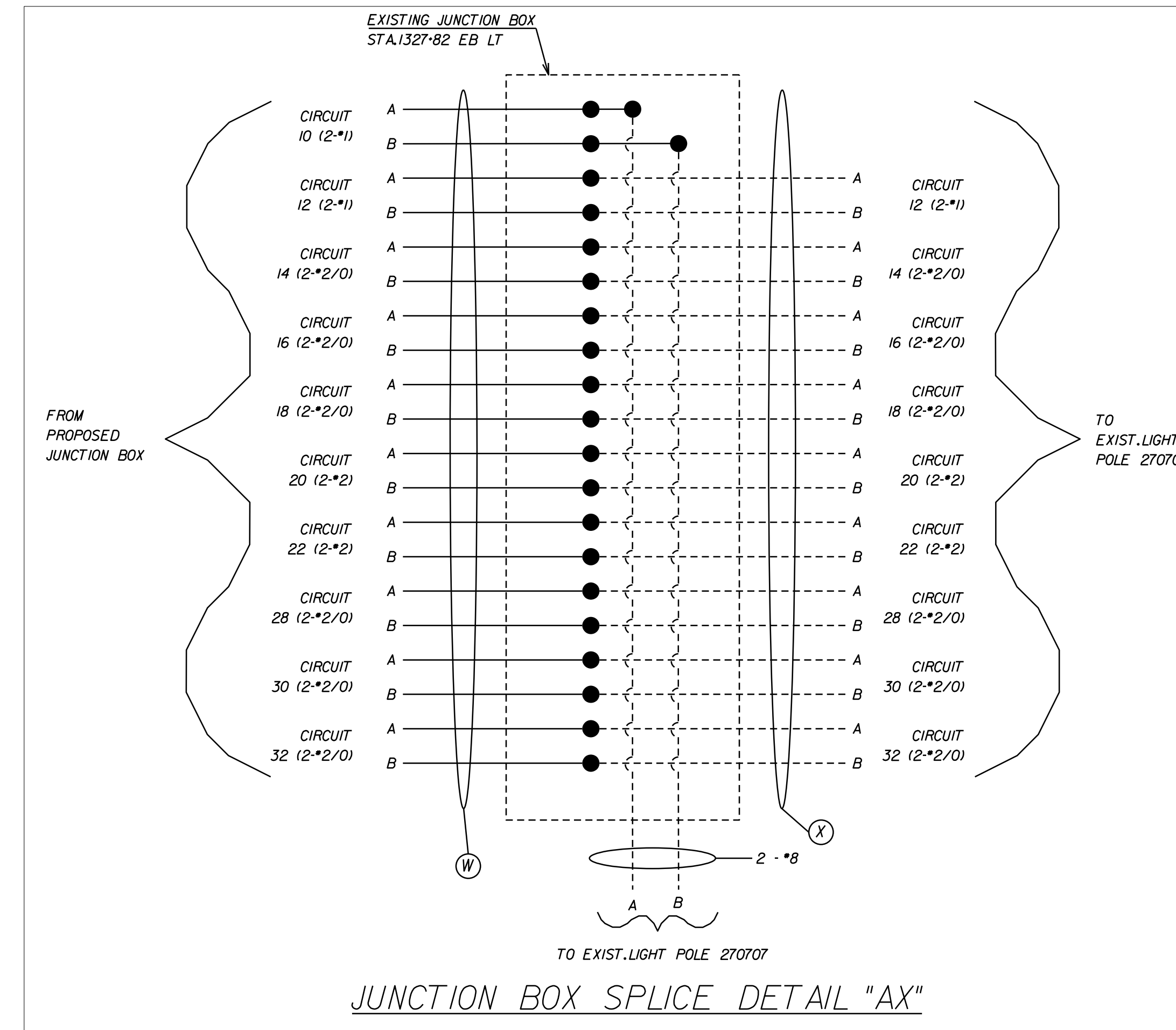
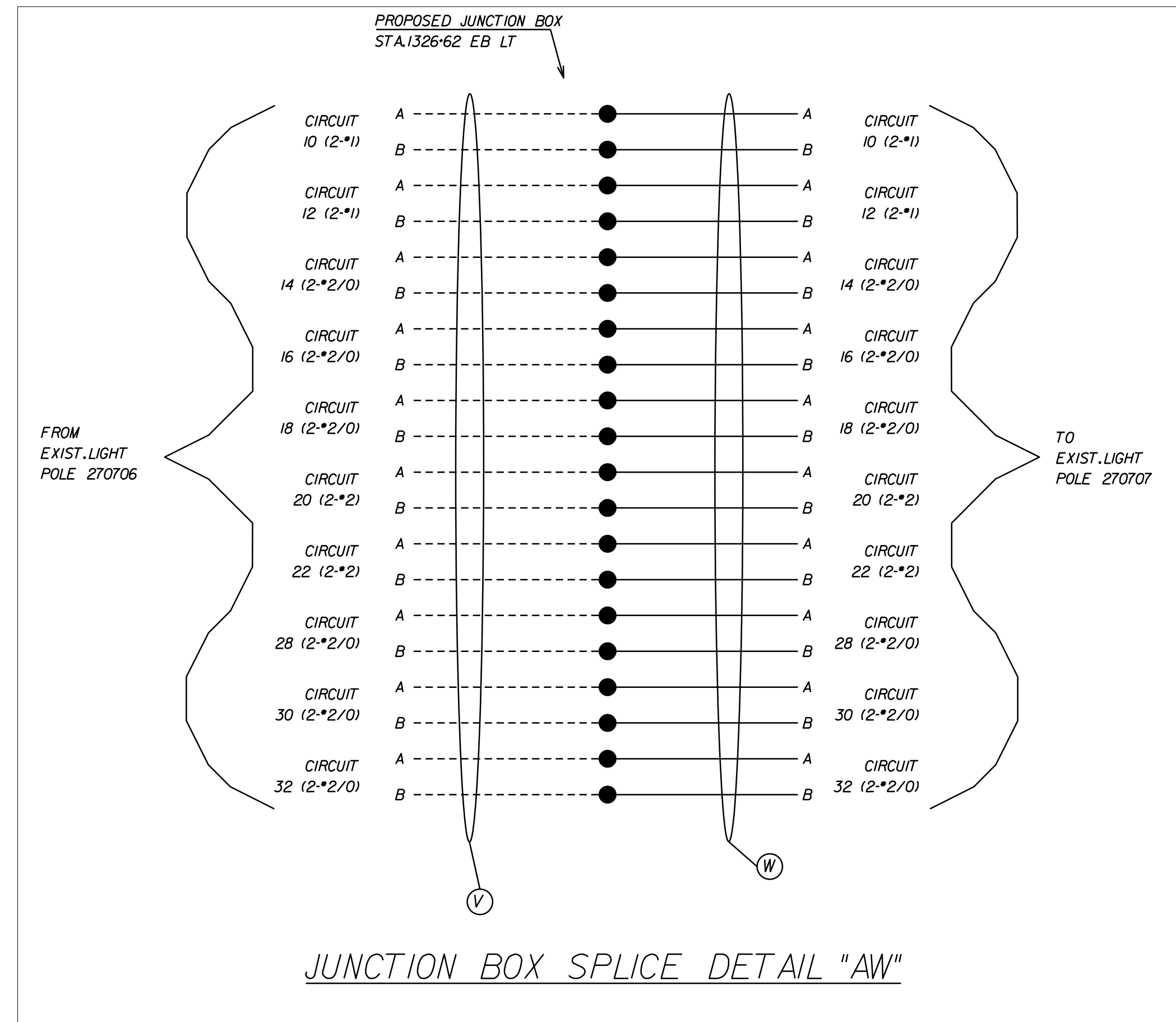


PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: N/A

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	55(48)A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER



P.H. PLANS

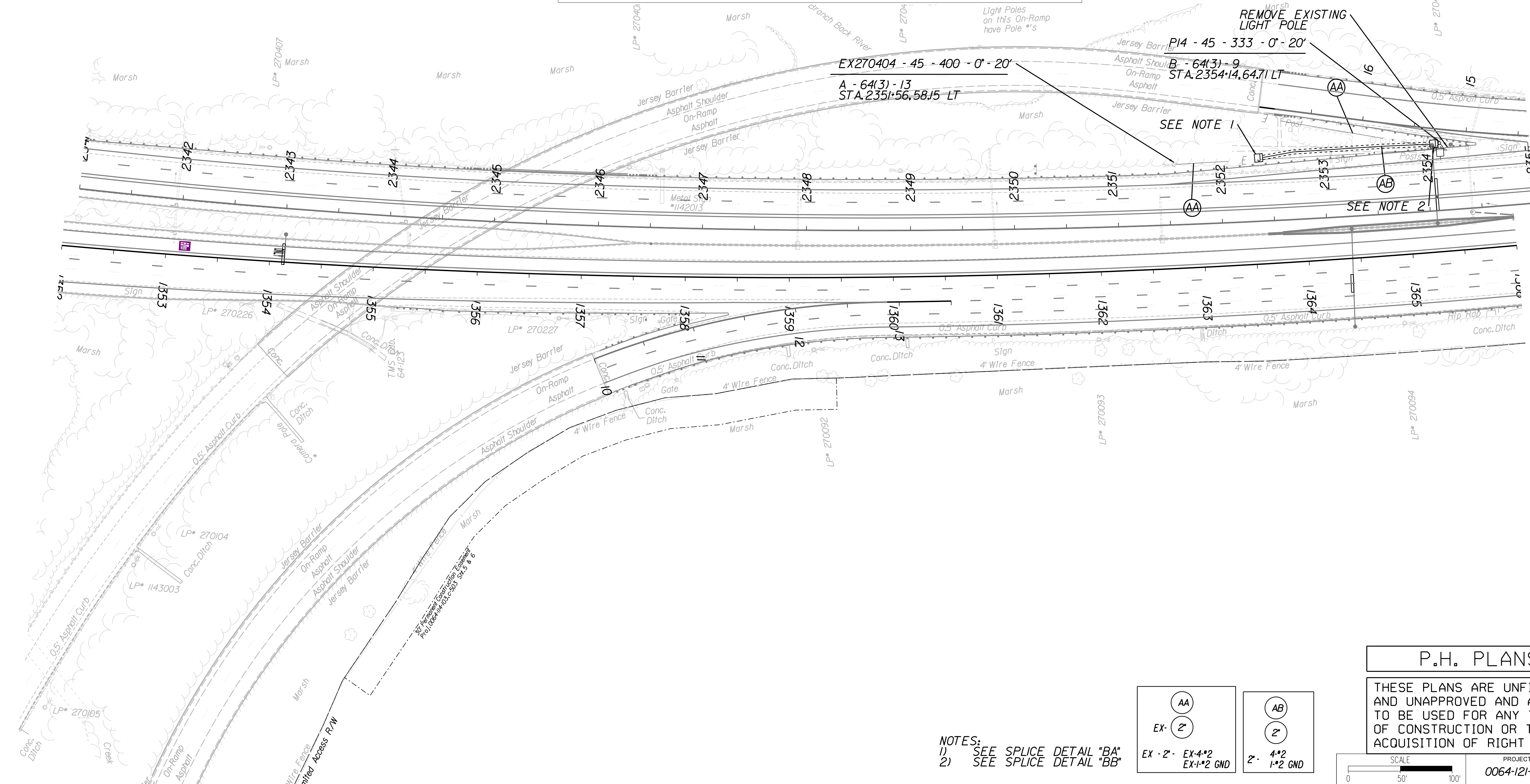
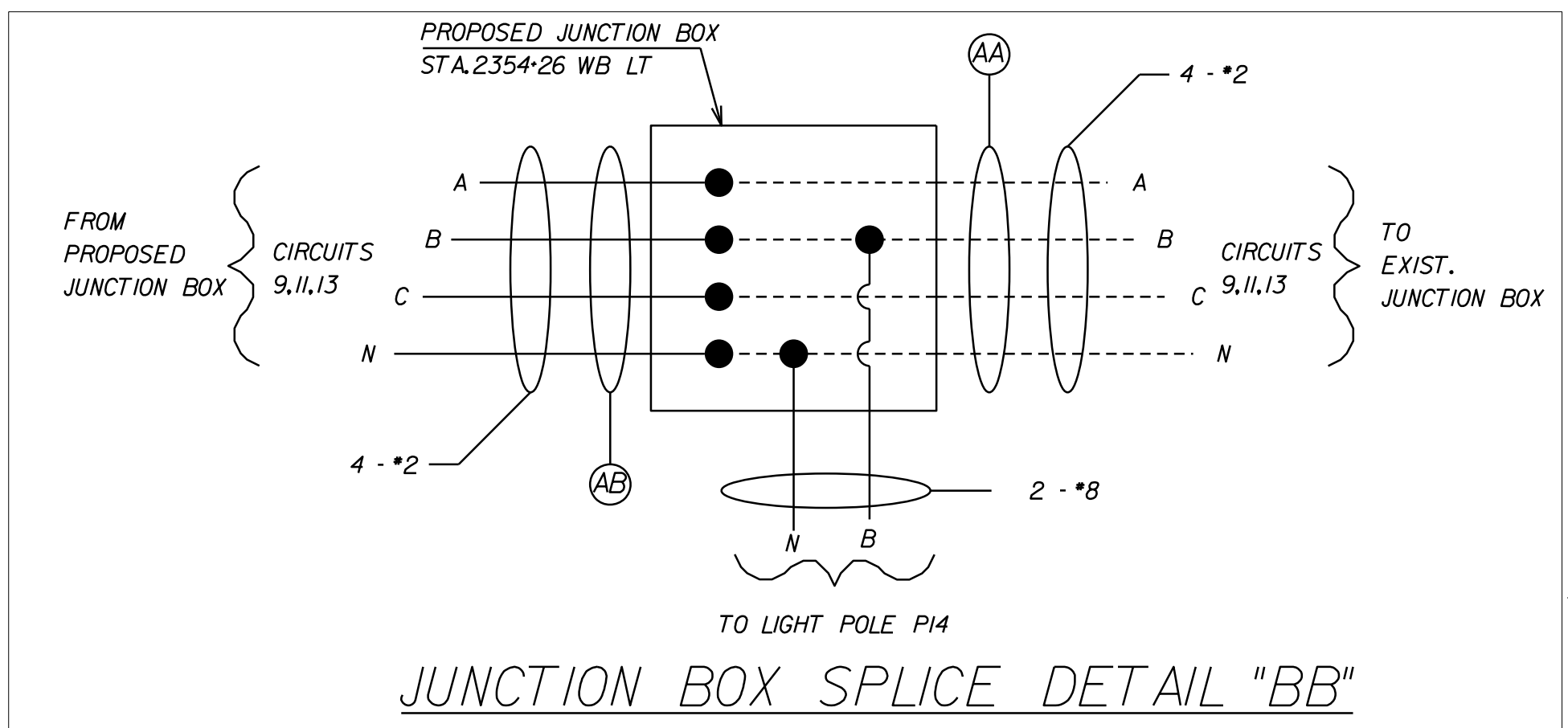
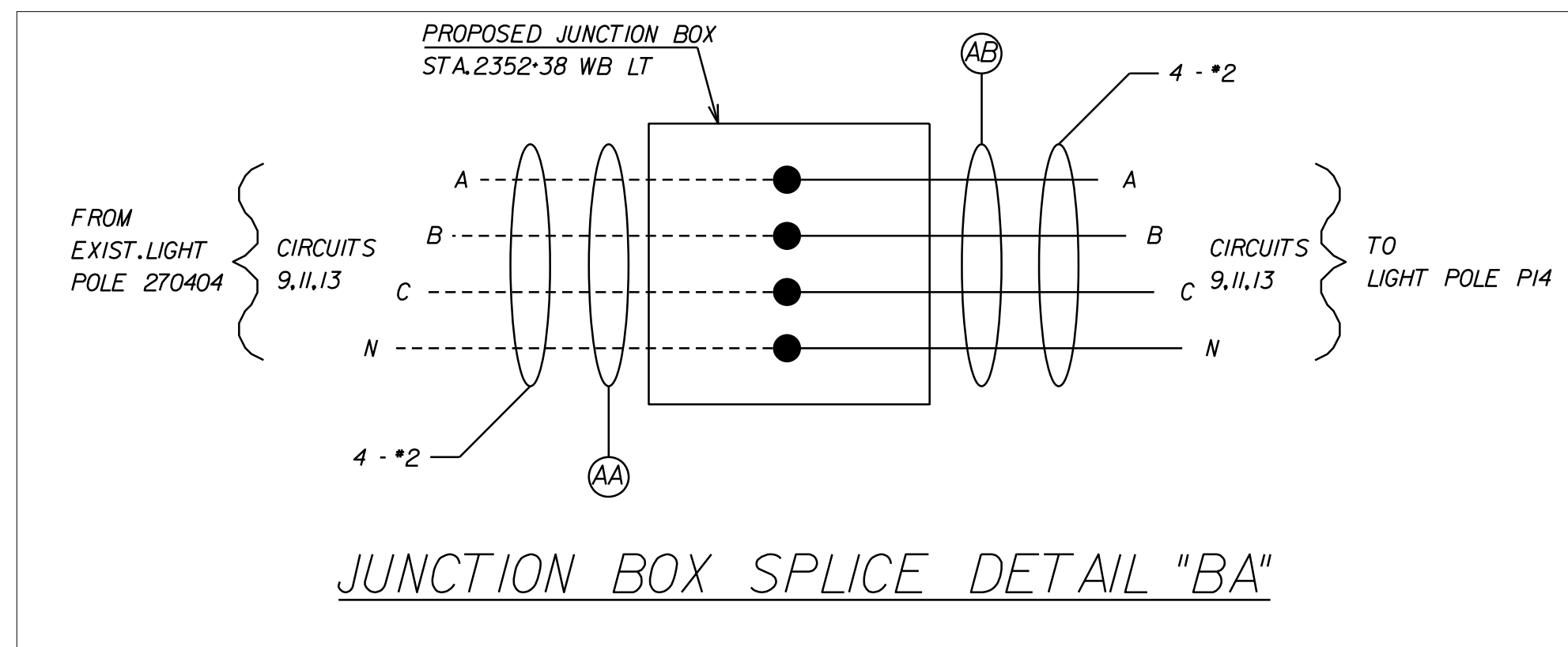
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PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineer/Inc.
SUBSURFACE UTILITY BY, DATE: N/A

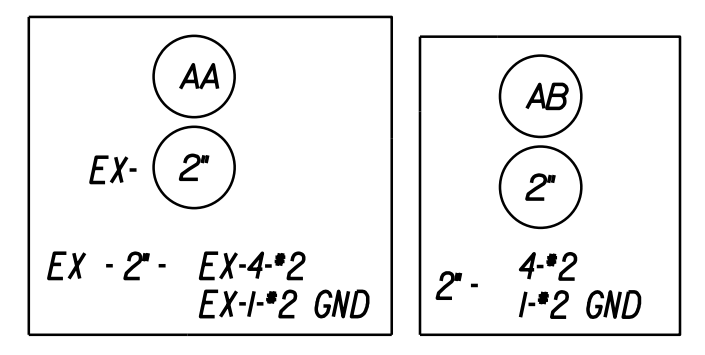
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	55(50)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

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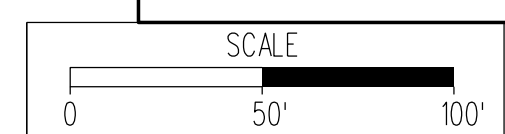


- NOTES:
1) SEE SPLICE DETAIL "BA"
2) SEE SPLICE DETAIL "BB"



P.H. PLANS

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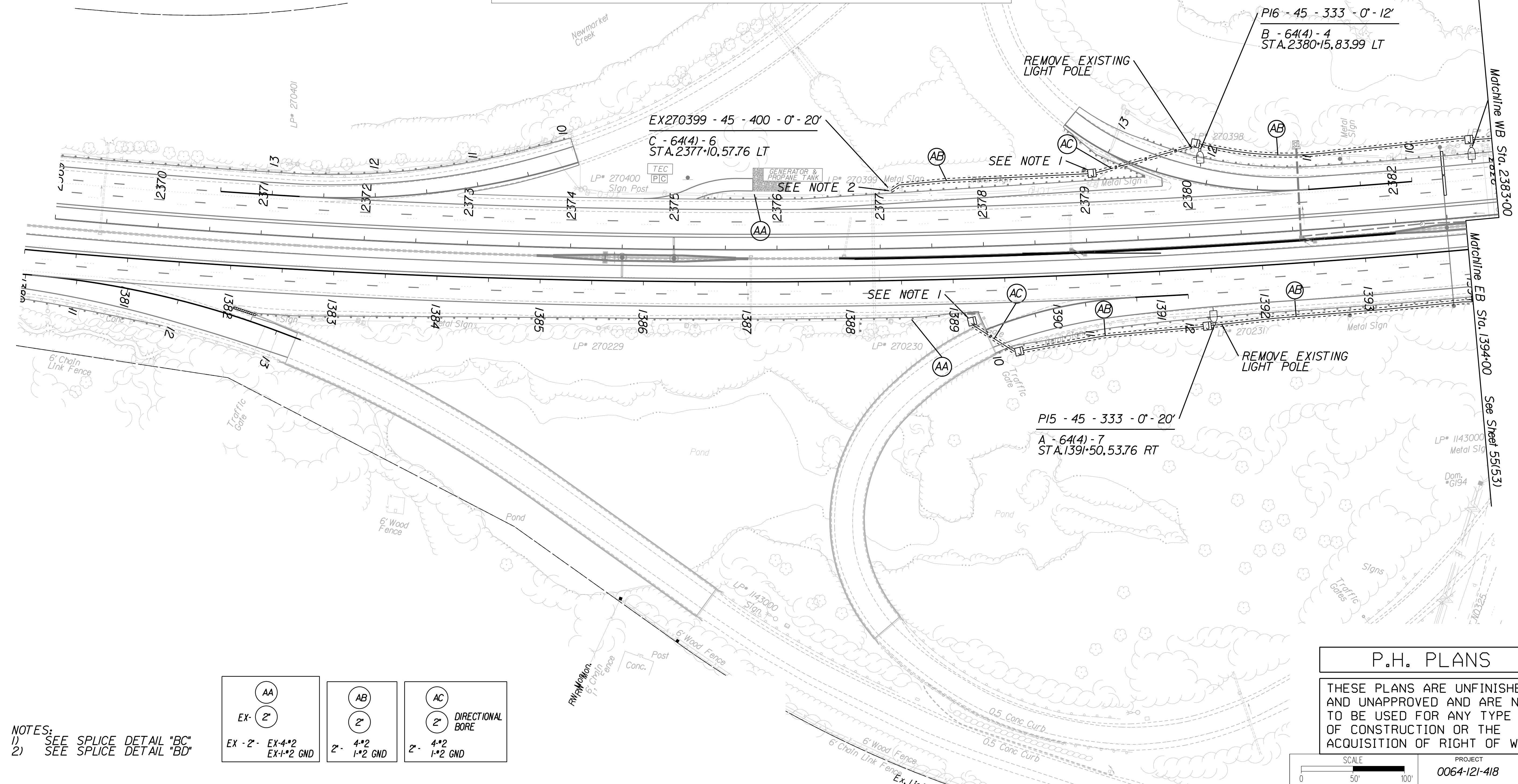
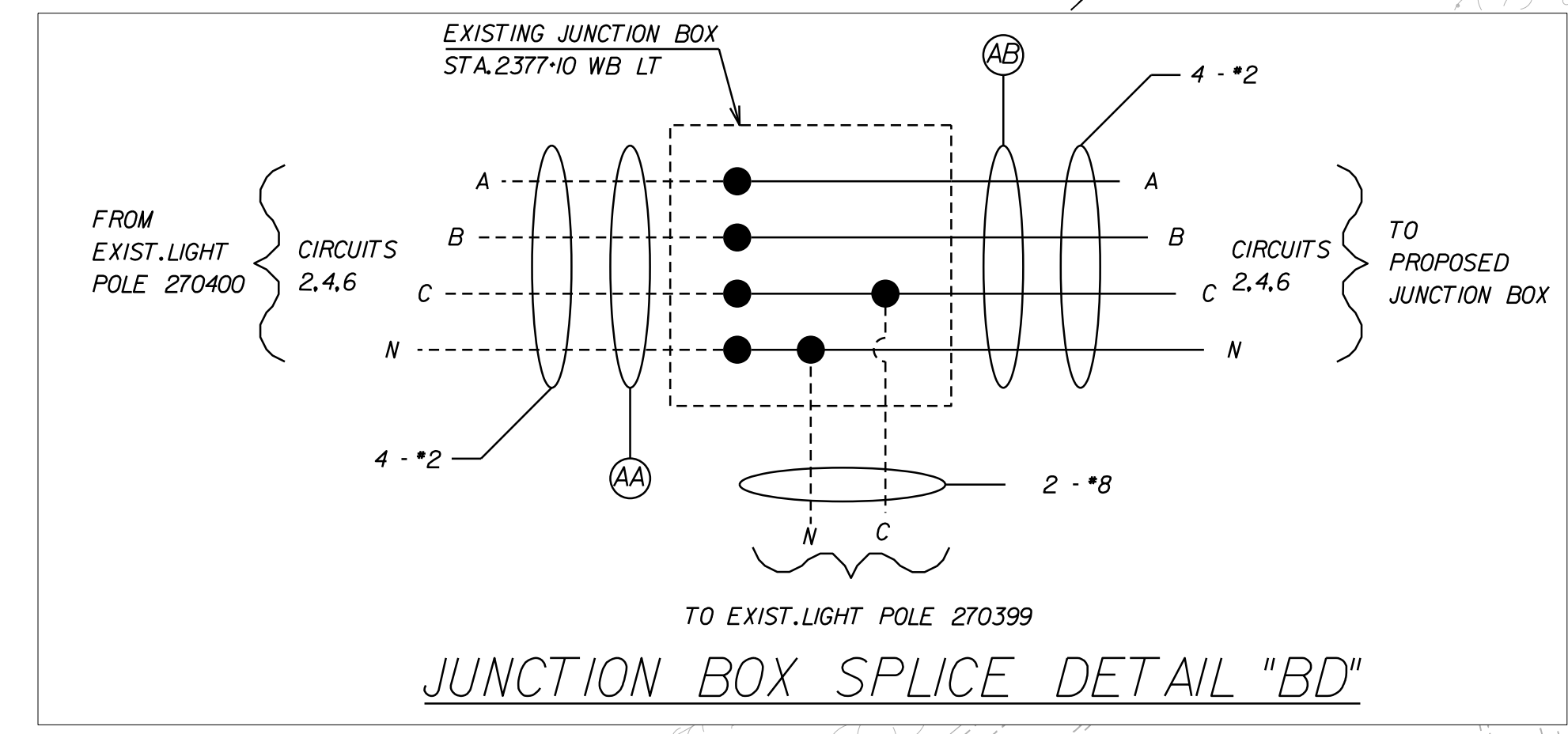
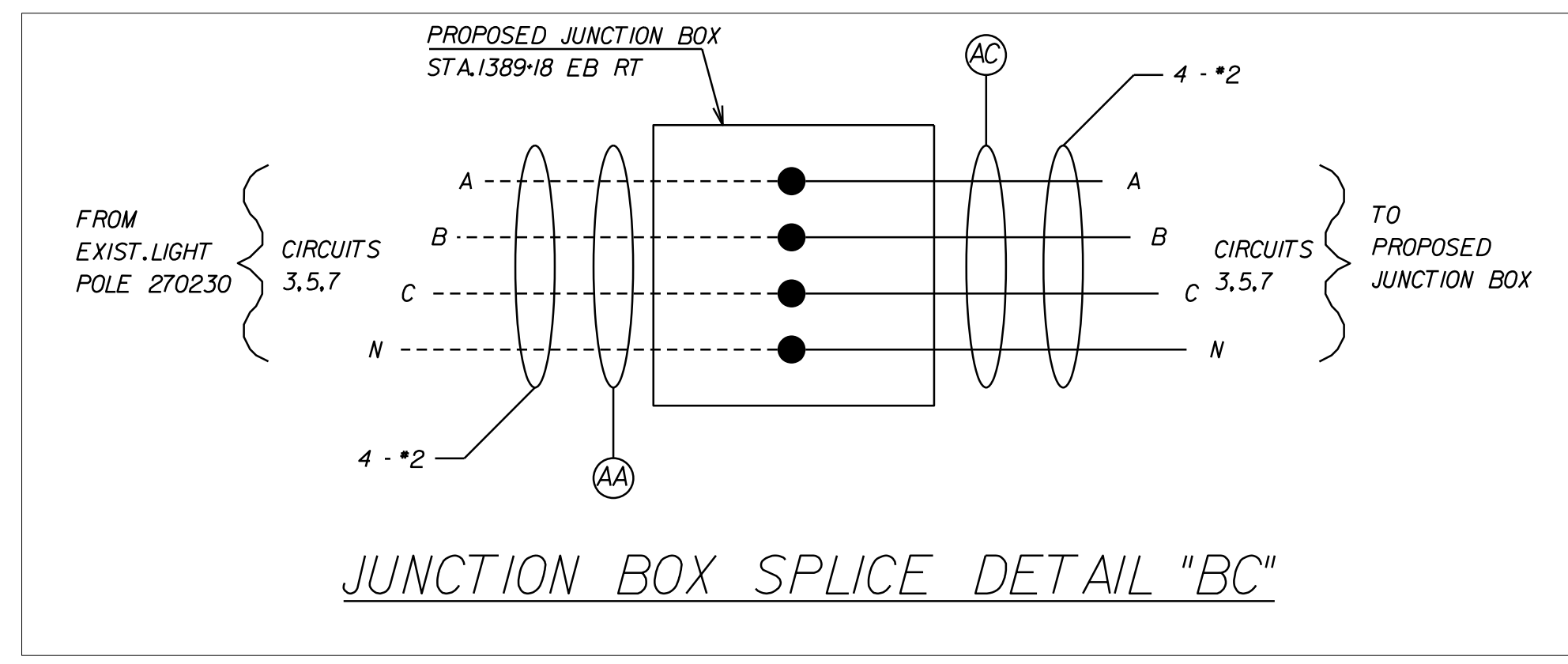


PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: N/A

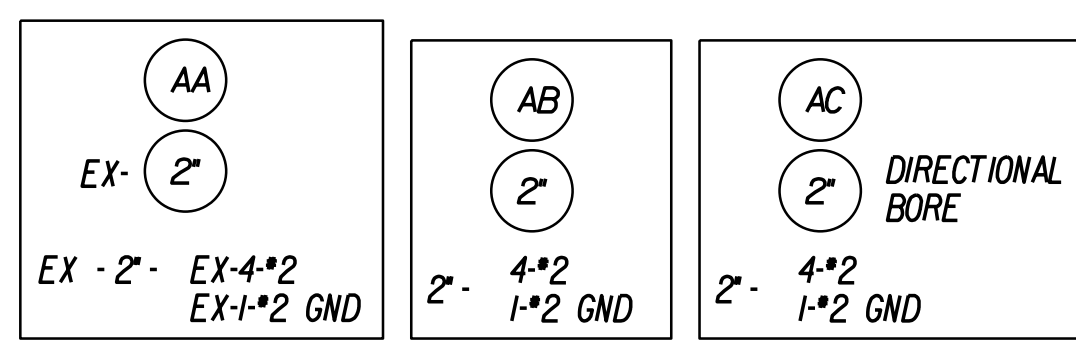
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	55(52)

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HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER



NOTES:
1) SEE SPLICE DETAIL "BC"
2) SEE SPLICE DETAIL "BD"



P.H. PLANS

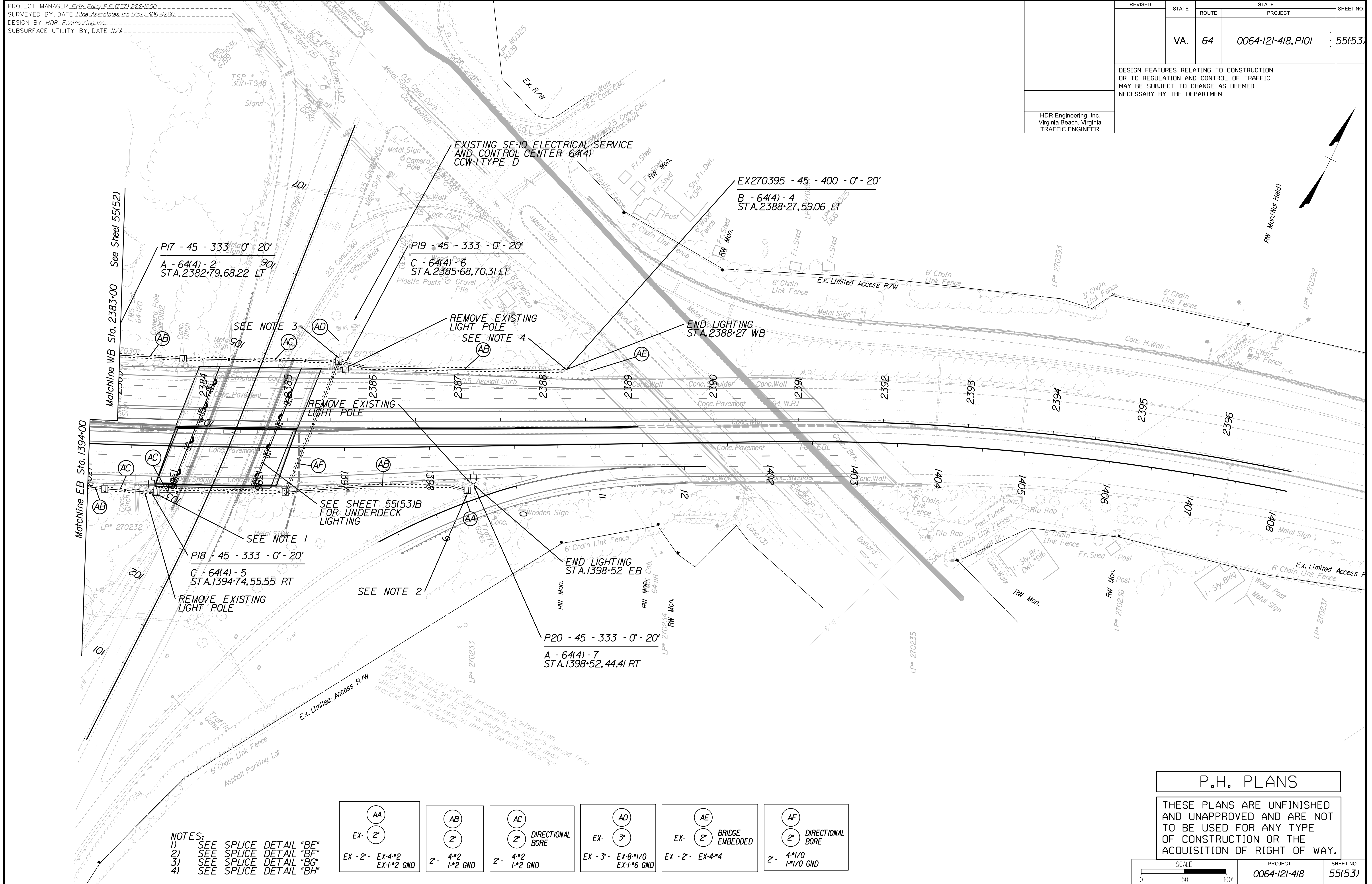
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PROJECT MANAGER: Erin Foley, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineer/Inc.
SUBSURFACE UTILITY BY, DATE: MZA

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	64		0064-121-418, P101	55(53)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

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- NOTES:
1) SEE SPLICE DETAIL "BE"
2) SEE SPLICE DETAIL "BF"
3) SEE SPLICE DETAIL "BG"
4) SEE SPLICE DETAIL "BH"

AA EX - 2"	AB 2" 4*2 EX-1*2 GND	AC 2" DIRECTIONAL BORE 2" 4*2 EX-1*2 GND	AD EX - 3" EX-8*1/0 EX-1*6 GND	AE EX - 2" BRIDGE EMBEDDED EX-4*4	AF 2" DIRECTIONAL BORE 2" 4*1/0 EX-1*1/0 GND
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P.H. PLANS

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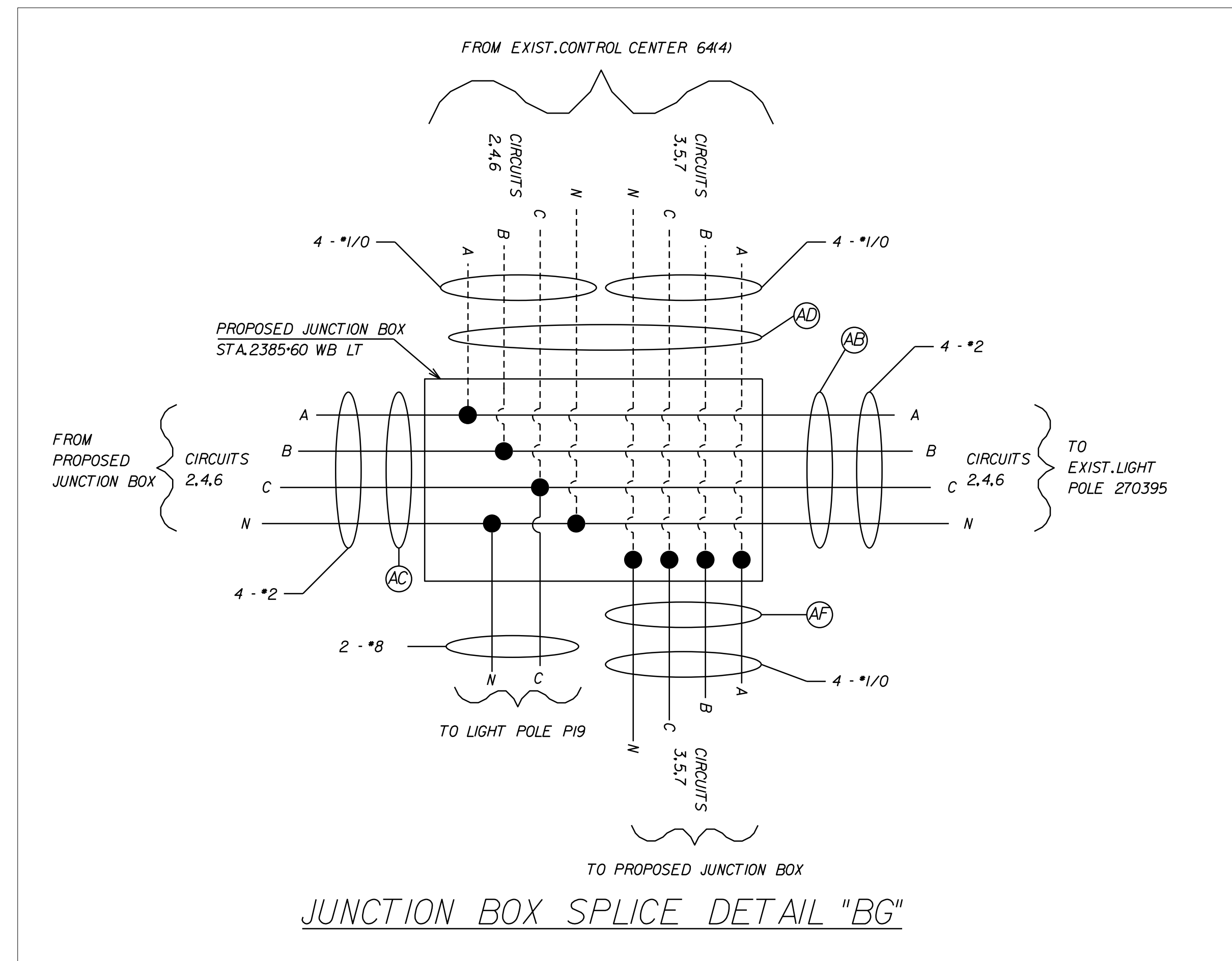
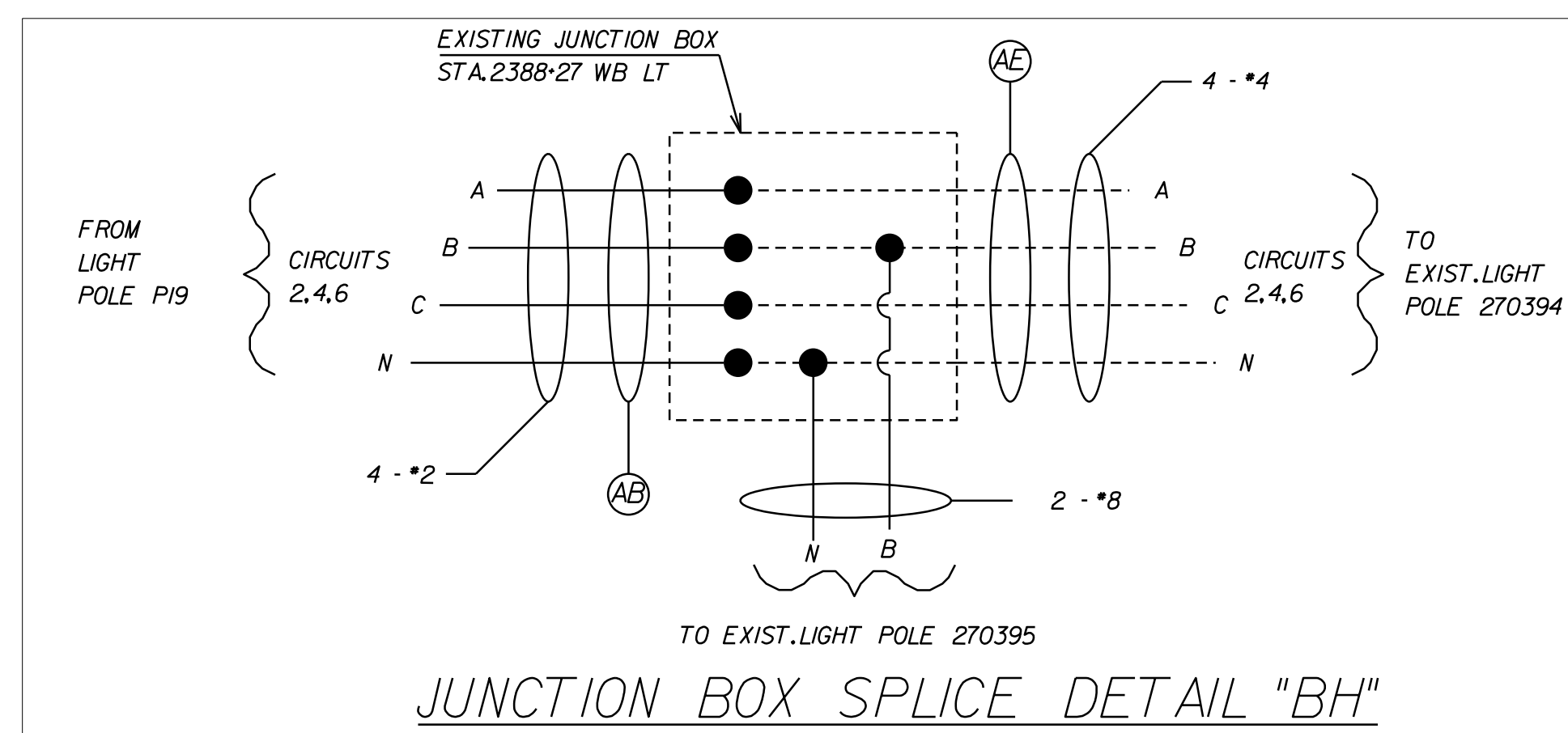
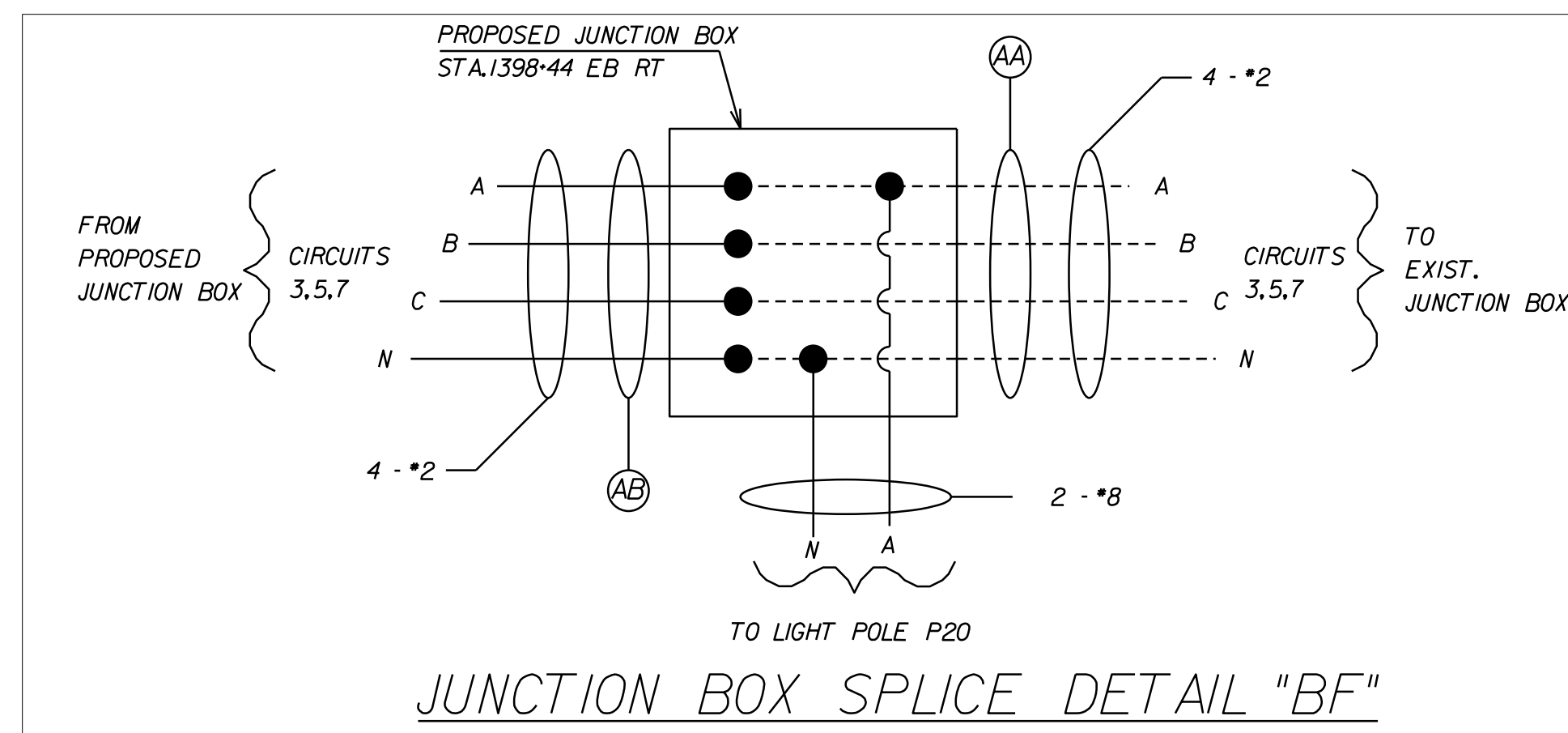
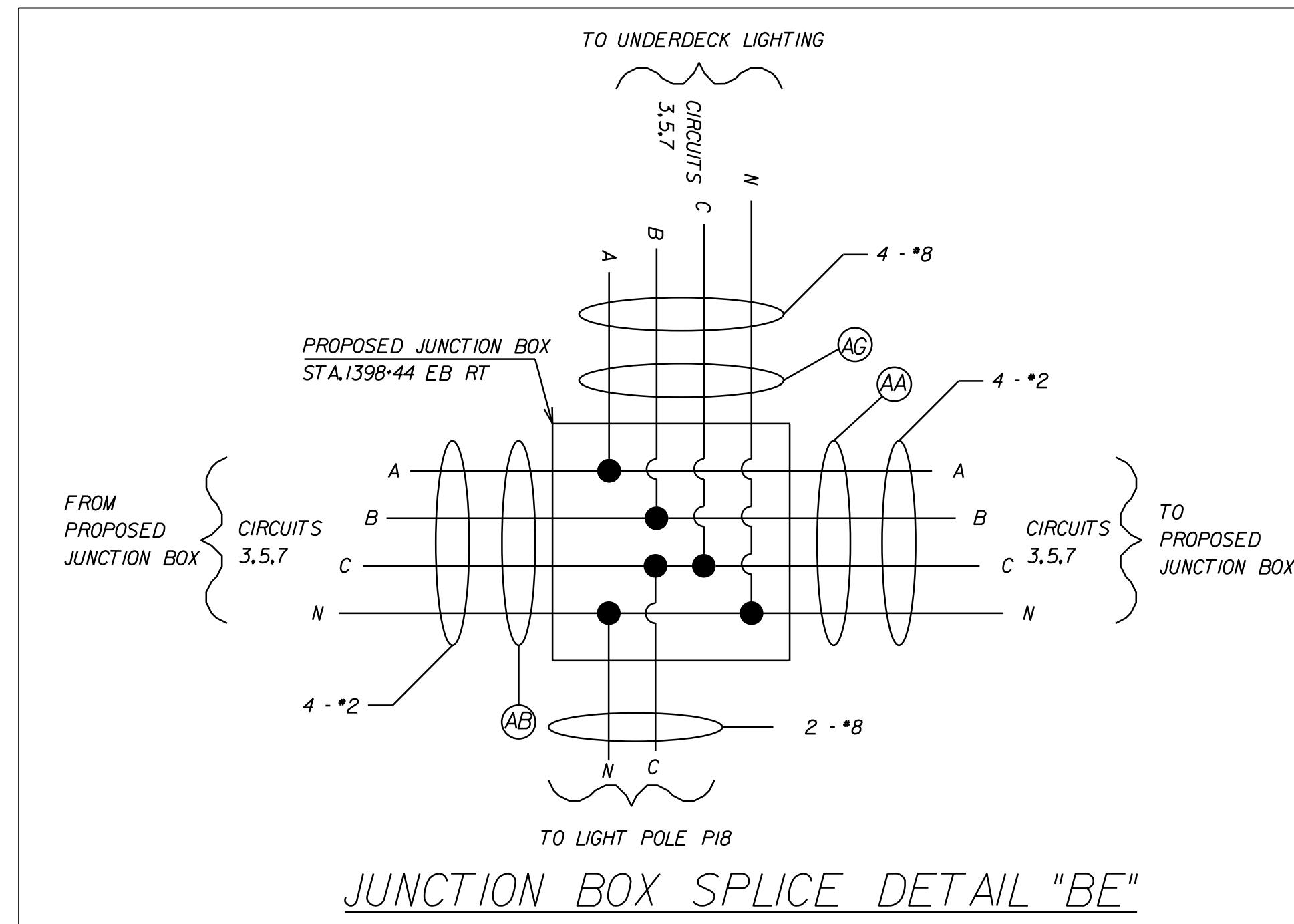
SCALE 0 50 100'
PROJECT 0064-121-418
SHEET NO. 55(53)

PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rice Associates, Inc. (757) 306-4260
DESIGN BY: HDR, Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: N/A

REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA.	64	0064-121-418, P101	55(53)A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER



P.H. PLANS

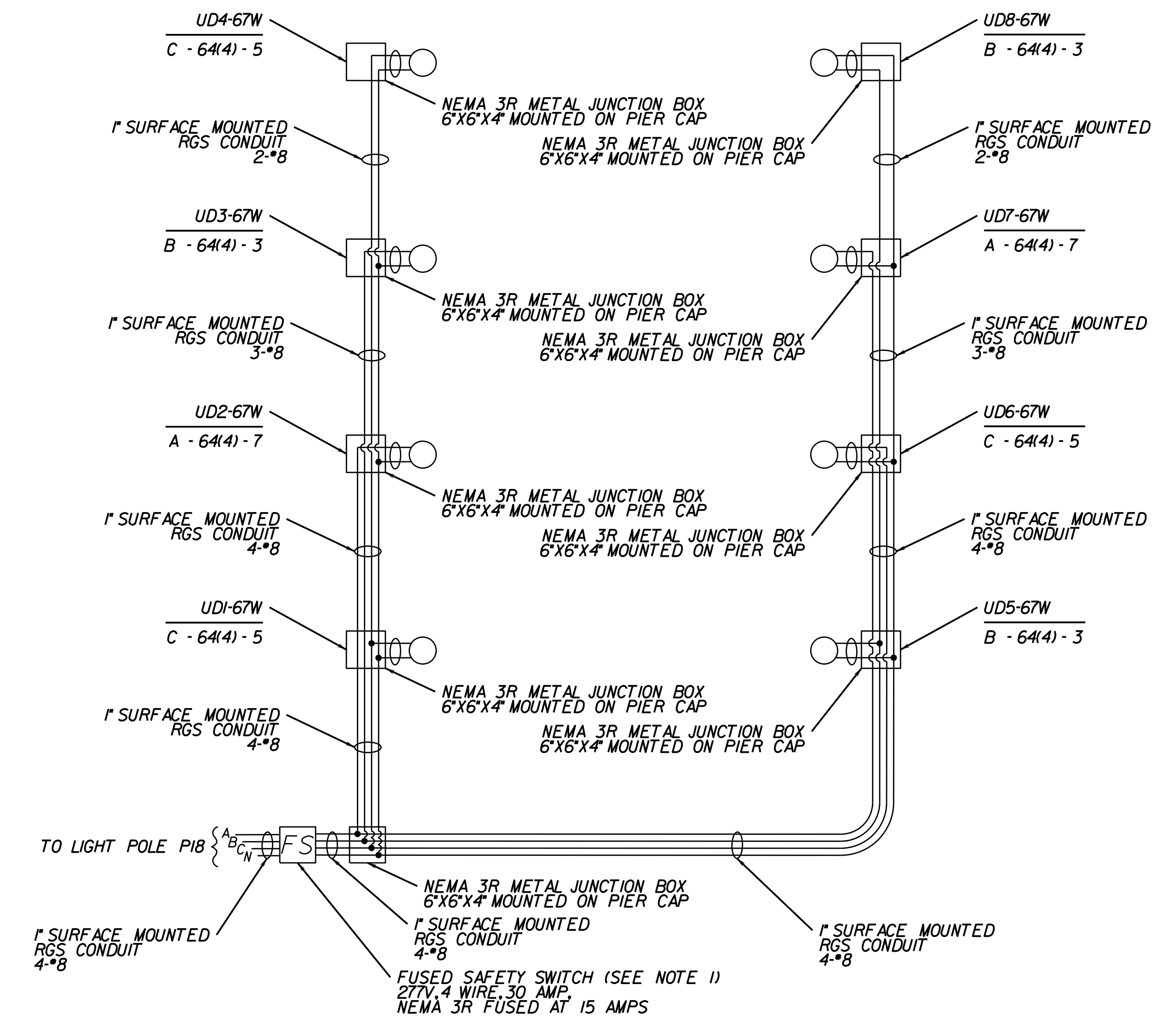
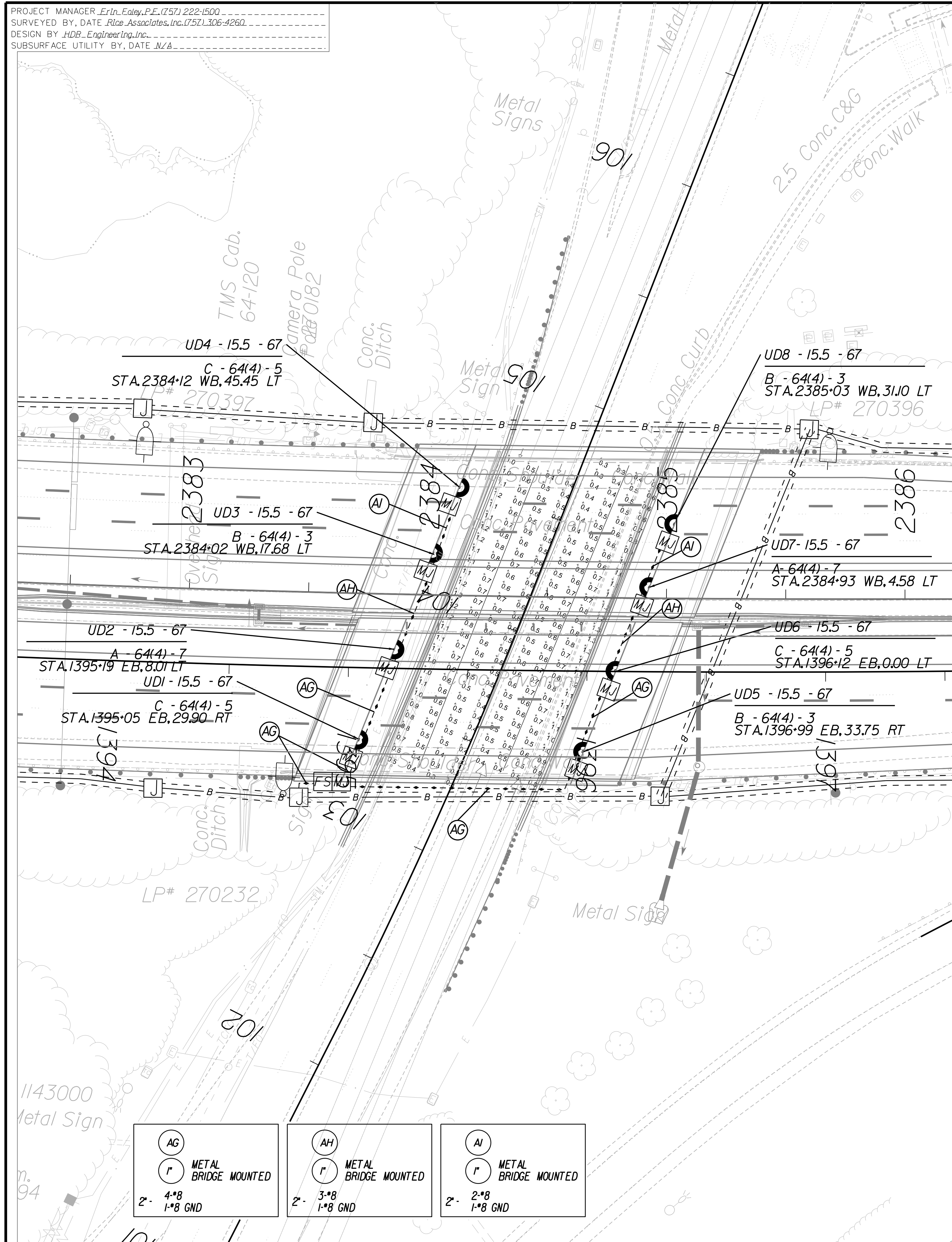
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PROJECT MANAGER: Erin Ealey, P.E. (757) 222-1500
SURVEYED BY, DATE: Rhee Associates, Inc. (757) 306-4260
DESIGN BY: HDR Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: MZA

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	64	0064-121-418, P101	55(53)B

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HDR Engineering, Inc.
Virginia Beach, Virginia
TRAFFIC ENGINEER



LASALLE AVENUE UNDERDECK LIGHTING
WIRING DIAGRAM
N.T.S.

<p>AG METAL BRIDGE MOUNTED 2" 4"Ø 1"Ø GND</p>	<p>AH METAL BRIDGE MOUNTED 2" 3"Ø 1"Ø GND</p>	<p>AI METAL BRIDGE MOUNTED 2" 2"Ø 1"Ø GND</p>
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Luminance Calculation Summary

Label	Units	Average	Maximum	Minimum	Max/Min	Avg/Min	Lv Ratio
LaSalle NB_UD	Cd/SqM	0.67	1.3	0.3	4.33	2.23	0.15
LaSalle SB_UD	Cd/SqM	0.67	1.3	0.3	4.33	2.23	0.15

P.H. PLANS

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SCALE 0 25 50'	PROJECT 0064-121-418	SHEET NO. 55(53)B
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