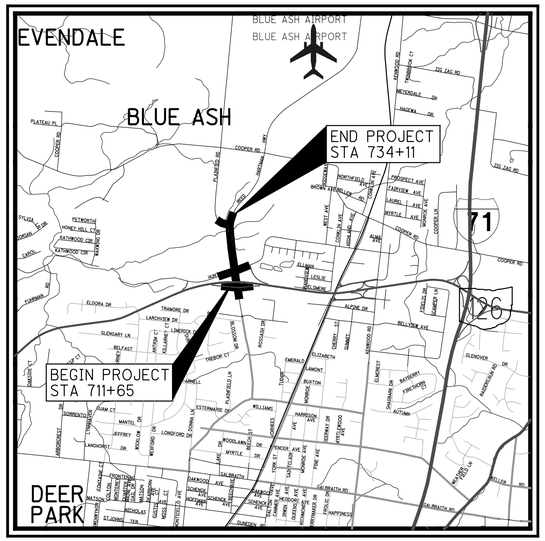

LOCATION MAP

LATITUDE: 39° 13′ 36″ LONGITUDE: -84° 23′ 39″

SCALE IN MILES

0 1 2 3 4

N

PORTION TO BE IMPROVED

INTERSTATE HIGHWAY

FEDERAL ROUTES

STATE ROUTES

COUNTY & TOWNSHIP ROADS

OTHER ROADS

DESIGN DESIGNATION

	PLAINFIELD ROAD	REED HARTMAN HWY	HUNT RD	PEPPERMILL LANE	SR 126 ENTRANCE RAMP
CURRENT ADT (2021)	26,400	21,900	15,400	1,200	9,100
DESIGN YEAR ADT (2041)	27,700	23,000	16,200	1,300	9,600
DESIGN HOURLY VOLUME (2041)	3,050	2,300	1,800	150	1,050
DIRECTIONAL DISTRIBUTION	57%	58%	78%	58%	100%
TRUCKS (24 HOUR B&C)	1%	1%	1%	2%	2%
DESIGN SPEED	30	45	30	30	N/A
LEGAL SPEED	25	40	25	25	N/A
DESIGN FUNCTIONAL CLASSIFICATION:	04 MINOR ARTERIAL (URBAN)	04 MINOR ARTERIAL (URBAN)	07 LOCAL (URBAN)	07 LOCAL (URBAN)	INTERSTATE RAMP
NHS PROJECT	NO	NO	NO	NO	YES

DESIGN EXCEPTIONS

NONE

UNDERGROUND UTILITIES

Contact Two Working Days Before You Dig

OHIO811.org Before You Dig

OHIO811, 8-1-1, or 1-800-362-2764

(Non-members must be called directly)

PLAN PREPARED BY:

AMERICAN STRUCTUREPOINT INC.

2550 CORPORATE EXCHANGE DR, STE 300
COLUMBUS, OH 43231
TEL 614.901.2235 FAX 614.901.2236
www.structurepoint.com

ENGINEERS SEAL:

SIGNED:

DATE:

STATE OF OHIO

DEPARTMENT OF TRANSPORTATION

HAM-PLAINFIELD RD ROUNDABOUTS

CITY OF BLUE ASH

HAMILTON COUNTY

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PROJECT DESCRIPTION

THIS PROJECT REPLACES THE SIGNALIZED INTERSECTIONS OF PLAINFIELD ROAD AND HUNT ROAD, AND PLAINFIELD ROAD AND PEPPERMILL LANE, AND THE UNSIGNALIZED INTERSECTION OF HUNT ROAD AND THE WEST KROGER ENTRANCE WITH SINGLE AND MULTI-LANE ROUNDABOUTS.

PROJECT EARTH DISTURBED AREA:	10.526 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	0.125 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA:	10.651 ACRES

2019 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY EXCEPT AS NOTED ON SHEET 38, AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

APPROVED

DATE PUBLIC WORKS DIRECTOR

STANDARD CONSTRUCTION DRAWINGS										SUPPLEMENTAL SPECIFICATIONS		SPECIAL PROVISIONS
BP-1.1	7/28/00	DM-4.3	1/15/16	HL-30.22	1/15/21	MT-101.70	1/17/20	TC-52.20	1/15/21	800-2019	1/15/21	
BP-3.1	01/17/20	DM-4.4	1/15/16	HL-30.31	4/17/20	MT-101.75	1/17/20	TC-61.30	7/19/19	809	1/17/20	
BP-3.2	1/18/19			HL-40.10	7/17/20	MT-101.80	1/17/20	TC-71.10	1/19/18	813	10/19/18	
		BP-4.1	7/19/13	HL-40.20	7/17/20	MT-102.20	4/19/19	TC-73.20	1/17/20	832	10/19/18	
CB-1.1	7/19/19	BP-5.1	1/18/19	HL-60.11	7/21/17	MT-105.10	1/17/20	TC-81.11	1/15/21	878	1/17/20	
CB-1.2	1/15/16	BP-7.1	7/17/20	HL-60.12	1/15/21	MT-110.10	7/19/13	TC-81.22	7/17/20	895	4/18/14	
CB-1.3	1/15/16							TC-82.10	7/19/19	902	7/19/19	
CB-2.1	7/20/18	RM-1.1	7/18/14	MT-95.31	7/19/19	TC-16.22	7/17/20	TC-83.10	1/17/20	909	7/17/20	
CB-2.2	7/20/18	RM-3.1	7/20/18	MT-95.32	4/19/19	TC-21.21	1/15/21	TC-83.20	7/21/17	913	4/21/17	
CB-2.3	1/15/16	RM-4.2	4/17/20	MT-95.45	1/17/20	TC-41.20	10/18/13	TC-84.21	10/18/13			
				MT-95.50	7/21/17	TC-41.30	10/18/13	TC-85.20	7/20/18			
MH-1.2	1/15/16	HL-10.11	1/15/21	MT-97.11	1/20/17	TC-41.40	10/18/13	TC-85.21	4/17/20			
		HL-10.12	1/20/17	MT-98.11	1/17/20	TC-41.41	7/19/19					
DM-1.1	7/17/20	HL-10.13	4/17/20	MT-98.22	1/17/20	TC-42.10	10/18/13					
DM-1.2	1/18/13	HL-20.11	1/15/21	MT-99.20	4/19/19	TC-42.20	10/18/13					
DM-3.1	1/18/13	HL-30.11	1/15/21	MT-101.60	1/17/20	TC-52.10	10/18/13					

FEDERAL PROJECT NO. E161 (066)

PID NO. 103416

CONSTRUCTION PROJECT NO.

RAILROAD INVOLVEMENT NONE

HAM-PLAINFIELD RD ROUNDABOUTS

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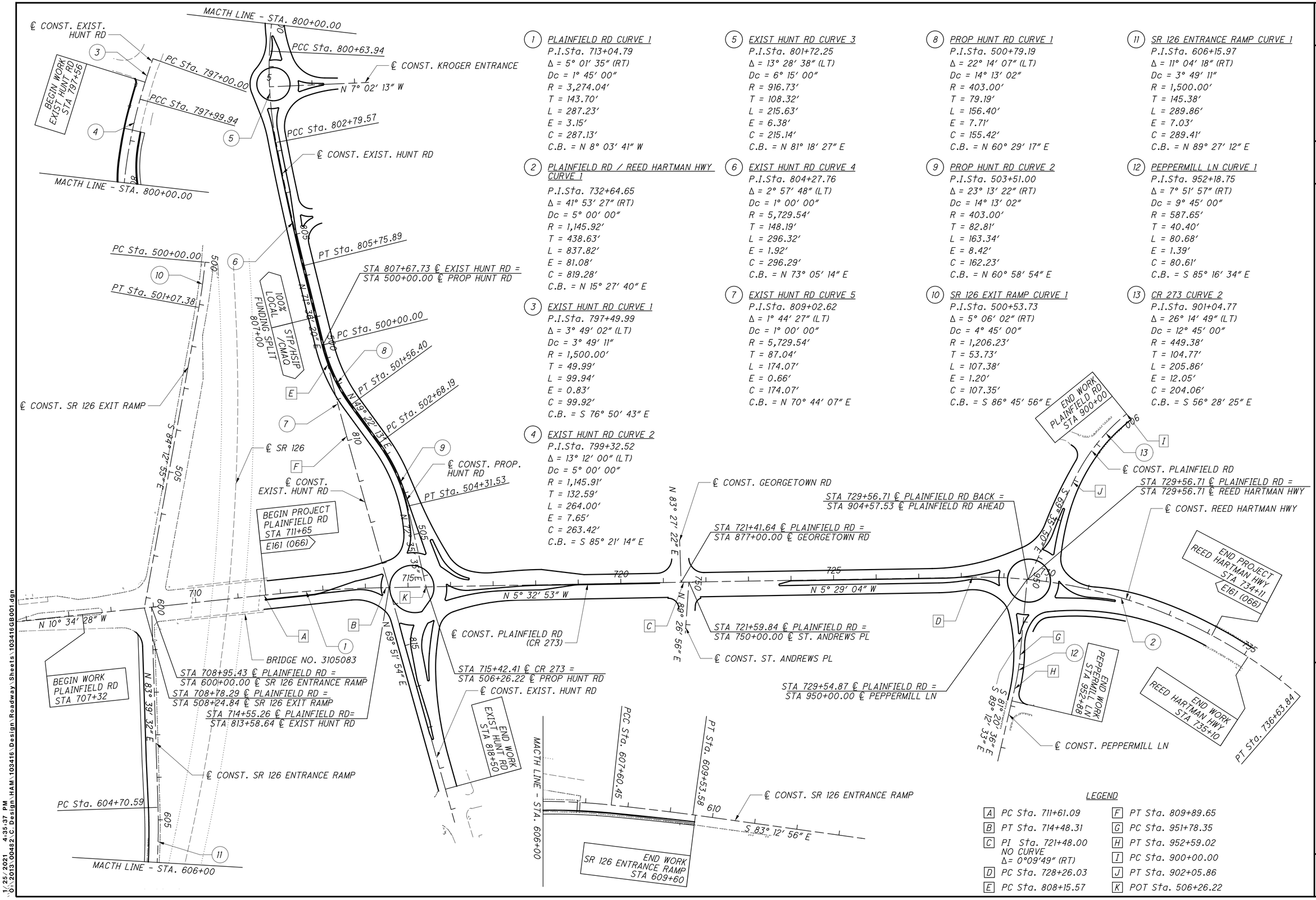

1 PLAINFIELD RD CURVE 1
P.I.Sta. 713+04.79
Δ = 5° 01' 35" (RT)
Dc = 1° 45' 00"
R = 3,274.04'
T = 143.70'
L = 287.23'
E = 3.15'
C = 287.13'
C.B. = N 8° 03' 41" W

2 PLAINFIELD RD / REED HARTMAN HWY CURVE 1
P.I.Sta. 732+64.65
Δ = 41° 53' 27" (RT)
Dc = 5° 00' 00"
R = 1,145.92'
T = 438.63'
L = 837.82'
E = 81.08'
C = 819.28'
C.B. = N 15° 27' 40" E

3 EXIST HUNT RD CURVE 1
P.I.Sta. 797+49.99
Δ = 3° 49' 02" (LT)
Dc = 3° 49' 11"
R = 1,500.00'
T = 49.99'
L = 99.94'
E = 0.83'
C = 99.92'
C.B. = S 76° 50' 43" E

4 EXIST HUNT RD CURVE 2
P.I.Sta. 799+32.52
Δ = 13° 12' 00" (LT)
Dc = 5° 00' 00"
R = 1,145.91'
T = 132.59'
L = 264.00'
E = 7.65'
C = 263.42'
C.B. = S 85° 21' 14" E

5 EXIST HUNT RD CURVE 3
P.I.Sta. 801+72.25
Δ = 13° 28' 38" (LT)
Dc = 6° 15' 00"
R = 916.73'
T = 108.32'
L = 215.63'
E = 6.38'
C = 215.14'
C.B. = N 81° 18' 27" E

6 EXIST HUNT RD CURVE 4
P.I.Sta. 804+27.76
Δ = 2° 57' 48" (LT)
Dc = 1° 00' 00"
R = 5,729.54'
T = 148.19'
L = 296.32'
E = 1.92'
C = 296.29'
C.B. = N 73° 05' 14" E

7 EXIST HUNT RD CURVE 5
P.I.Sta. 809+02.62
Δ = 1° 44' 27" (LT)
Dc = 1° 00' 00"
R = 5,729.54'
T = 87.04'
L = 174.07'
E = 0.66'
C = 174.07'
C.B. = N 70° 44' 07" E

8 PROP HUNT RD CURVE 1
P.I.Sta. 500+79.19
Δ = 22° 14' 07" (LT)
Dc = 14° 13' 02"
R = 403.00'
T = 79.19'
L = 156.40'
E = 7.71'
C = 155.42'
C.B. = N 60° 29' 17" E

9 PROP HUNT RD CURVE 2
P.I.Sta. 503+51.00
Δ = 23° 13' 22" (RT)
Dc = 14° 13' 02"
R = 403.00'
T = 82.81'
L = 163.34'
E = 8.42'
C = 162.23'
C.B. = N 60° 58' 54" E

10 SR 126 EXIT RAMP CURVE 1
P.I.Sta. 500+53.73
Δ = 5° 06' 02" (RT)
Dc = 4° 45' 00"
R = 1,206.23'
T = 53.73'
L = 107.38'
E = 1.20'
C = 107.35'
C.B. = S 86° 45' 56" E

11 SR 126 ENTRANCE RAMP CURVE 1
P.I.Sta. 606+15.97
Δ = 11° 04' 18" (RT)
Dc = 3° 49' 11"
R = 1,500.00'
T = 145.38'
L = 289.86'
E = 7.03'
C = 289.41'
C.B. = N 89° 27' 12" E

12 PEPPERMILL LN CURVE 1
P.I.Sta. 952+18.75
Δ = 7° 51' 57" (RT)
Dc = 9° 45' 00"
R = 587.65'
T = 40.40'
L = 80.68'
E = 1.39'
C = 80.61'
C.B. = S 85° 16' 34" E

13 CR 273 CURVE 2
P.I.Sta. 901+04.77
Δ = 26° 14' 49" (LT)
Dc = 12° 45' 00"
R = 449.38'
T = 104.77'
L = 205.86'
E = 12.05'
C = 204.06'
C.B. = S 56° 28' 25" E

LEGEND

A	PC Sta. 711+61.09	F	PT Sta. 809+89.65
B	PT Sta. 714+48.31	G	PC Sta. 951+78.35
C	PI Sta. 721+48.00 NO CURVE Δ= 0°09'49" (RT)	H	PT Sta. 952+59.02
D	PC Sta. 728+26.03	I	PC Sta. 900+00.00
E	PC Sta. 808+15.57	J	PT Sta. 902+05.86
		K	POT Sta. 506+26.22

HORIZONTAL SCALE IN FEET
0 50 100 200
CALCULATED CML
CHECKED JS

SCHEMATIC PLAN

HAM-PLAINFIELD RD ROUNDABOUTS

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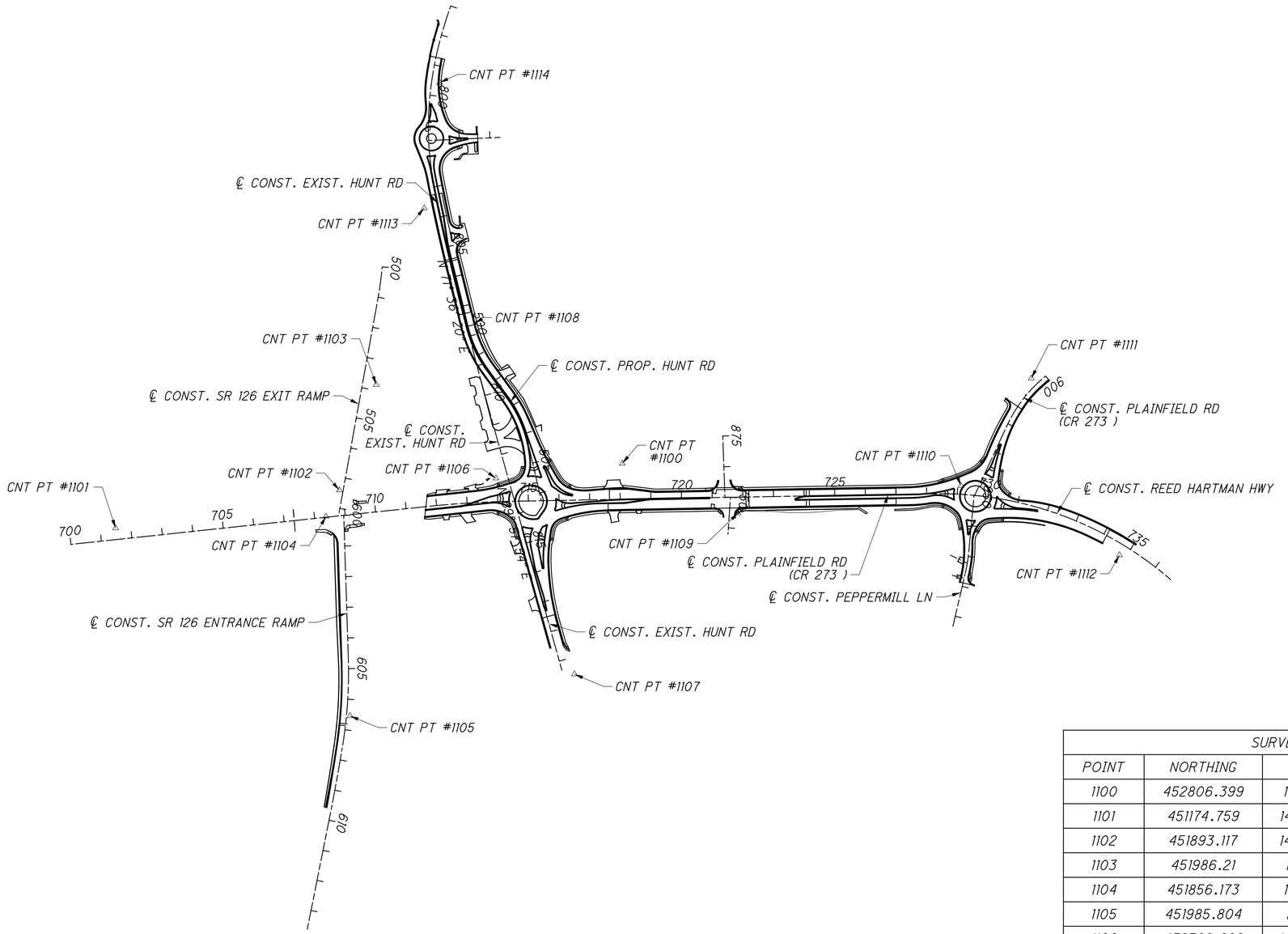

SURVEY CONTROL POINTS				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
1100	452806.399	1431924.199	834.14	IPINS
1101	451174.759	1432264.383	851.71	MAGS
1102	451893.117	1432083.423	861.59	IPINS
1103	451986.21	1431731.128	838.1	IPINS
1104	451856.173	1432172.515	864.58	MAGS
1105	451985.804	1432814.82	852.2	IPINS
1106	452399.299	1432004.523	845.31	IPINS
1107	452705.047	1432621.671	831.32	IPINS
1108	452291.84	1431507.302	843.66	IPINS
1109	453195.933	1432055.889	817.81	IPINS
1110	453914.034	1431909.618	806.77	IPINS
1111	454115.438	1431542.528	826.22	MAGS/SPIKE
1112	454447.475	1432094.95	816.42	IPINS
1113	452097.024	1431144.546	820.93	IPINS
1114	452115.215	1430732.546	802.78	MAGS

HORIZONTAL SCALE IN FEET
0 100 200 400

CALCULATED LZS
CHECKED JS

SCHEMATIC PLAN - PROJECT CONTROL

HAM-PLAINFIELD RD ROUNDABOUTS

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(A) PLAINFIELD RD. STA 716+97.05, 30.63LT =
REF LINE PH-NW STA 103+33.71, ℄
NORTHING: 452703.7219
EASTING: 1432020.7578

(B) PLAINFIELD RD. STA 716+86.57, 15.11 LT =
REF LINE PH-BI-2 STA 5+29.68, ℄
NORTHING: 452694.7914
EASTING: 1432037.2166

(C) PLAINFIELD RD. STA 718+14.02, ℄ =
REF LINE PH-NL STA 32+30.18, ℄
NORTHING: 452823.1058
EASTING: 1432039.9384

(D) PLAINFIELD RD. STA 718+15.00, 13.00 RT =
REF LINE PH-NR STA 42+40.53, ℄
NORTHING: 452825.3327
EASTING: 1432052.7833

(E) PLAINFIELD RD. STA 717+59.58, 35.00 RT =
REF LINE PH-NE STA 200+00.00, ℄
NORTHING: 452772.3047
EASTING: 1432080.0378

(F) PLAINFIELD RD. STA 715+62.83, 75.34 RT =
REF LINE PH-BI-1 STA 5+81.39, ℄
NORTHING: 452580.3766
EASTING: 1432139.2083

(G) PLAINFIELD RD. STA 715+45.60, 82.74 RT =
REF LINE PH-BI-1 STA 1+00.00, ℄
NORTHING: 452563.9387
EASTING: 1432148.2429

(H) EX. HUNT RD. STA 817+76.20, 27.50 LT =
REF LINE PH-NE STA 205+12.37, ℄
NORTHING: 452635.5795
EASTING: 1432457.1982

(I) EX. HUNT RD. STA 816+89.90, 19.37 LT =
REF LINE PH-BI-1 STA 3+38.80, ℄
NORTHING: 452598.2383
EASTING: 1432378.9696

(J) EX. HUNT RD. STA 816+77.74, 5.50 RT =
REF LINE PH-ER STA 62+42.71, ℄
NORTHING: 452570.7050
EASTING: 1432376.1212

(K) EX. HUNT RD. STA 815+85.85, 6.13 LT =
REF LINE PH-EL STA 51+32.92, ℄
NORTHING: 452549.9895
EASTING: 1432285.8419

(L) EX. HUNT RD. STA 814+47.83, 16.50 RT =
REF LINE PH-SE STA 301+25.00, ℄
NORTHING: 452481.2339
EASTING: 1432164.0480

(M) PLAINFIELD RD. STA 713+66.41, 26.62 RT =
REF LINE PH-SE STA 300+00.00, ℄
NORTHING: 452380.9268
EASTING: 1432110.6525

(N) PLAINFIELD RD. STA 711+61.09, 11.00 RT =
REF LINE PH-SR STA 70+00.00, ℄
NORTHING: 452176.8282
EASTING: 1432126.3744

(O) PLAINFIELD RD. STA 711+61.09, 11.00 LT =
REF LINE PH-SL STA 80+00.00, ℄
NORTHING: 452172.7909
EASTING: 1432104.7481

(P) PLAINFIELD RD. STA 713+27.86, 37.30 LT =
REF LINE PH-SW STA 400+00.00, ℄
NORTHING: 452334.4907
EASTING: 1432052.1811

(Q) HUNT RD. STA 504+91.40, 22.68 RT =
REF LINE PH-SW STA 402+11.89, ℄
NORTHING: 452490.7896
EASTING: 1431944.3297

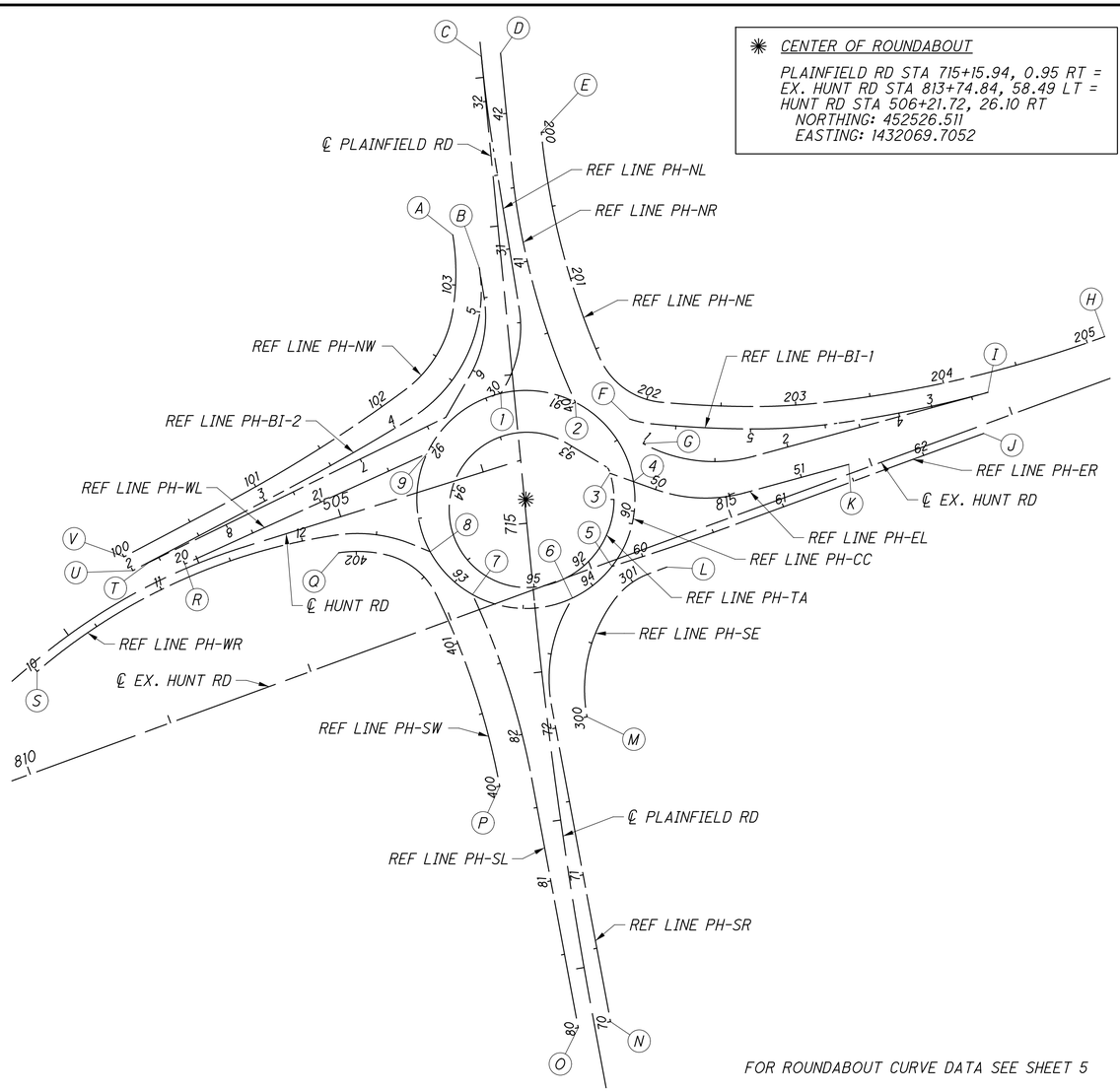
(R) HUNT RD. STA 503+91.19, 3.00 LT =
REF LINE PH-WL STA 20+00.00, ℄
NORTHING: 452483.3083
EASTING: 1431841.4138

(S) HUNT RD. STA 502+68.19, 6.00 RT =
REF LINE PH-WR STA 10+00.00, ℄
NORTHING: 452411.2777
EASTING: 1431742.4705

(T) HUNT RD. STA 503+70.68, 14.00 LT =
REF LINE PH-BI-2 STA 8+56.95, ℄
NORTHING: 452484.5914
EASTING: 1431817.8011

(U) HUNT RD. STA 503+58.48, 14.00 LT =
REF LINE PH-BI-2 STA 2+00.00, ℄
NORTHING: 452478.8735
EASTING: 1431806.5433

(V) HUNT RD. STA 503+57.60, 24.93 LT =
REF LINE PH-NW STA 100+00.00, ℄
NORTHING: 452488.1075
EASTING: 1431800.6272



FOR ROUNDABOUT CURVE DATA SEE SHEET 5

INTERSECTIONS WITH ROUNDABOUT CC

(1) PH-CC STA 91+39.54 = PH-NL 30+00.00
NORTHING: 452597.5402
EASTING: 1432052.8577

(2) PH-CC STA 90+88.15 = PH-NR 40+00.00
NORTHING: 452591.5611
EASTING: 1432102.8334

(3) PH-TA STA 91+67.78 = PH-EL 49+67.74
NORTHING: 452544.0292
EASTING: 1432126.0445

(4) PH-CC STA 90+19.87 = PH-EL 49+84.37
NORTHING: 452538.4581
EASTING: 1432141.7210

(5) PH-CC STA 94+18.23 = PH-ER 59+78.40
NORTHING: 452481.6472
EASTING: 1432127.2921

(6) PH-CC STA 93+84.10 = PH-SR 72+90.38
NORTHING: 452460.5098
EASTING: 1432100.8958

(7) PH-CC STA 93+14.60 = PH-SL 82+99.44
NORTHING: 452462.8223
EASTING: 1432034.0295

(8) PH-CC STA 92+73.69 = PH-WR 12+87.94
NORTHING: 452491.5221
EASTING: 1432005.6367

(9) PH-CC STA 92+05.55 = PH-WL 21+78.09
NORTHING: 452557.1839
EASTING: 1432003.4620

HORIZONTAL SCALE IN FEET
0 25 50 100
CALCULATED LZS
CHECKED JS

ROUNDABOUT - GEOMETRIC LAYOUT
PLAINFIELD RD & HUNT RD

HAM-PLAINFIELD RD
ROUNDABOUTS

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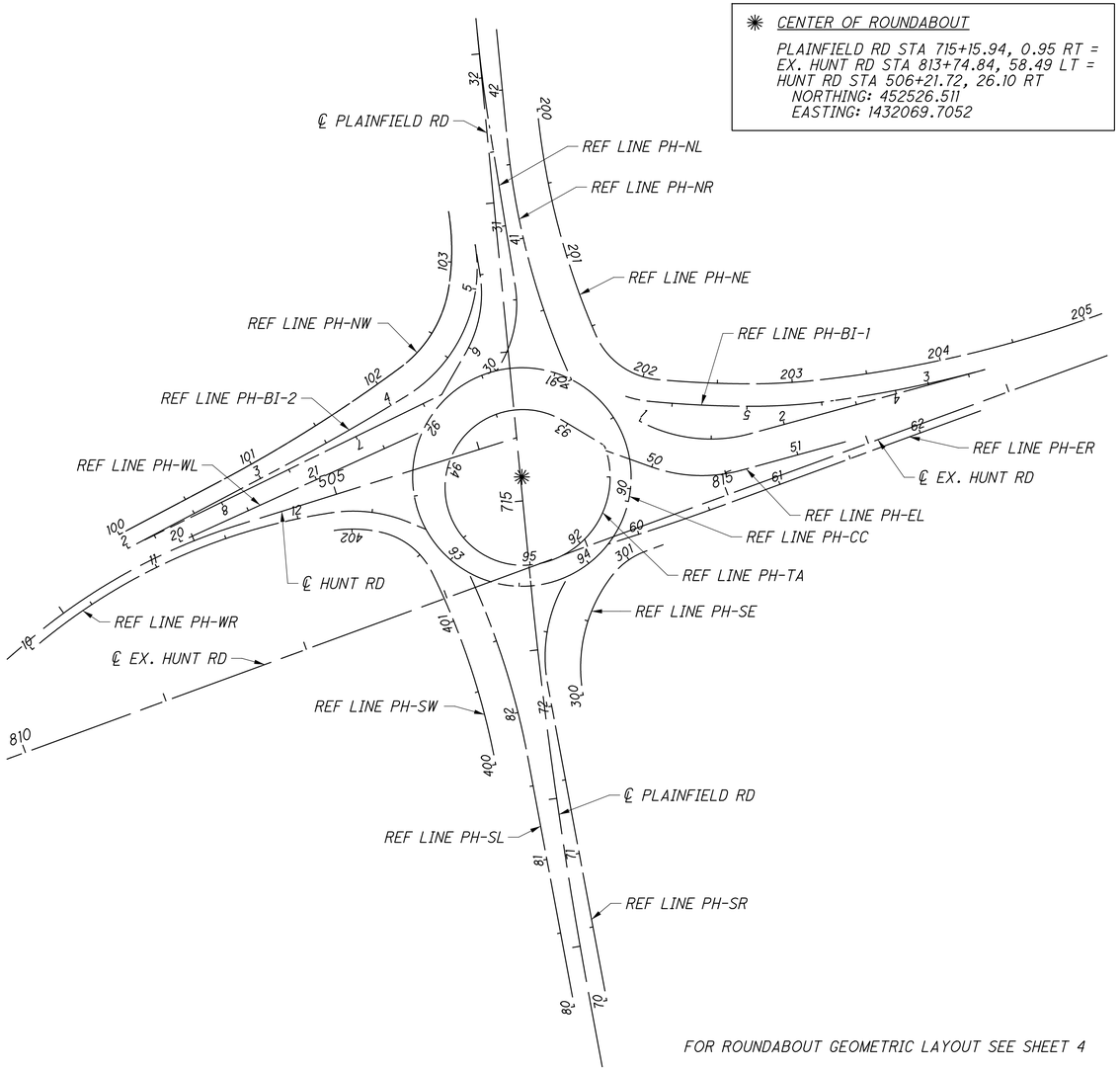
REF. LINE	P.I. STATION	P.I. NORTHING	P.I. EASTING	Δ	Δc	TANGENT LENGTH (FT)	ARC LENGTH (FT)	RADIUS (FT)	BEGIN CURVE	END CURVE
PH-CC	90+60.63	452526.51	1432069.71	79° 25′ 19″ (LT)	78° 29′ 15″	60.63	101.19	73.00	90+00.00	91+01.19
	92+10.48	452526.51	1432069.71	112° 31′ 03″ (LT)	78° 29′ 15″	109.29	143.36	73.00	91+01.19	92+44.55
	93+17.01	452526.51	1432069.71	89° 34′ 23″ (LT)	78° 29′ 15″	72.46	114.12	73.00	92+44.55	93+58.67
	94+18.30	452526.51	1432069.71	78° 29′ 15″ (LT)	78° 29′ 15″	59.63	100.00	73.00	93+58.67	94+58.67
PH-NW	101+46.90	453363.05	1431423.08	8° 42′ 18″ (LT)	6° 01′ 52″	72.31	144.33	950.00	100+74.59	102+18.92
	102+52.26	452665.62	1431939.81	44° 14′ 49″ (LT)	69° 52′ 22″	33.34	63.33	82.00	102+18.92	102+82.25
	103+08.20	452678.11	1431862.82	18° 25′ 43″ (LT)	35° 48′ 36″	25.96	51.46	160.00	102+82.25	103+33.71
PH-NL	30+31.36	452641.81	1431986.22	42° 48′ 32″ (LT)	71° 37′ 11″	31.36	59.77	80.00	30+00.00	30+59.77
	31+98.23	452919.79	1433035.25	3° 39′ 45″ (RT)	5° 43′ 46″	31.97	63.92	1000.00	31+66.25	32+30.18
PH-NR	40+83.63	452799.22	1432557.67	18° 59′ 27″ (RT)	11° 27′ 33″	83.63	165.73	500.00	40+00.00	41+65.73
PH-NE	200+78.65	452820.65	1432577.70	17° 55′ 26″ (LT)	11° 27′ 33″	78.85	156.41	500.00	200+00.00	201+56.41
	201+86.06	452641.41	1432164.93	61° 19′ 26″ (LT)	114° 35′ 30″	29.64	53.52	50.00	201+56.41	202+09.93
	202+39.82	453288.73	1432223.89	4° 53′ 25″ (LT)	8° 11′ 06″	29.89	59.75	700.00	202+09.93	202+69.68
	202+91.05	452988.74	1432222.25	6° 06′ 57″ (LT)	14° 19′ 26″	21.37	42.70	400.00	202+69.68	203+12.37
	204+12.96	453386.69	1432181.81	14° 19′ 59″ (LT)	7° 10′ 00″	100.59	200.00	800.00	203+12.37	205+12.37
PH-BI-1	1+40.11	452651.79	1432195.86	43° 42′ 48″ (LT)	57° 17′ 45″	40.11	76.29	100.00	1+00.00	1+76.29
	3+90.55	453369.96	1432168.14	7° 24′ 09″ (RT)	7° 09′ 43″	51.75	103.36	800.00	3+38.80	4+42.16
	4+70.49	452973.73	1432222.96	8° 06′ 12″ (RT)	14° 19′ 26″	28.33	56.57	400.00	4+42.16	4+98.73
	5+32.04	453295.73	1432224.23	5° 17′ 00″ (RT)	7° 56′ 09″	33.31	66.58	722.00	4+98.73	5+65.31
	5+73.38	452648.73	1432161.83	12° 48′ 06″ (RT)	79° 34′ 39″	8.08	16.09	72.00	5+65.31	5+81.39
PH-EL	50+31.39	452627.45	1432189.93	34° 50′ 41″ (LT)	57° 17′ 45″	31.38	60.82	100.00	50+00.00	50+60.82
PH-ER	60+29.79	453915.99	1431687.83	2° 16′ 33″ (LT)	3° 49′ 11″	29.79	59.58	1500.00	60+00.00	60+59.58
PH-SE	300+44.86	452399.28	1432208.95	48° 19′ 35″ (RT)	57° 17′ 45″	44.86	84.35	100.00	300+00.00	300+84.35
	300+98.50	452429.89	1432169.42	31° 36′ 50″ (RT)	114° 35′ 30″	14.16	27.59	50.00	300+84.35	301+11.93
	301+18.47	451072.91	1432680.40	0° 29′ 57″ (RT)	3° 49′ 11″	6.53	13.07	1500.00	301+11.93	301+25.00
PH-SR	72+51.07	4524+06.44	1432185.24	39° 45′ 29″ (RT)	57° 17′ 45″	36.16	69.39	100.00	72+14.91	72+84.30
PH-SL	82+32.00	452242.73	1431560.67	13° 50′ 59″ (LT)	10° 58′ 34″	63.40	126.18	522.00	81+68.60	82+94.78
PH-SW	400+68.23	452242.73	1431560.67	15° 32′ 26″ (LT)	11° 27′ 33″	68.23	135.62	500.00	400+00.00	401+35.62
	401+59.39	452440.81	1431964.73	50° 50′ 54″ (LT)	114° 35′ 30″	23.77	44.37	50.00	401+35.62	401+79.99
	401+96.13	452406.71	1431956.84	21° 29′ 54″ (LT)	67° 24′ 24″	16.14	31.89	85.00	401+79.99	402+11.88
PH-WR	11+14.47	452109.98	1432000.98	32° 10′ 04″ (RT)	14° 25′ 56″	114.47	222.89	397.00	10+00.00	12+22.89
	1+29.65	452406.71	1431956.84	30° 50′ 40″ (RT)	59° 04′ 04″	26.76	52.22	97.00	12+22.89	12+75.11
PH-BI-2	3+62.09	4538+58.28	1431206.63	3° 47′ 14″ (LT)	3° 49′ 11″	49.59	99.15	1500.00	3+12.50	4+11.65
	4+78.63	4526+65.62	1431939.81	67° 37′ 48″ (LT)	57° 17′ 45″	66.98	118.04	100.00	4+11.65	5+29.68
	5+78.11	4526+49.15	1431962.75	39° 12′ 51″ (RT)	71° 37′ 11″	28.50	54.75	80.00	5+49.61	6+04.37



✳ *CENTER OF ROUNDABOUT*

PLAINFIELD RD STA 715+15.94, 0.95 RT =
EX. HUNT RD STA 813+74.84, 58.49 LT =
HUNT RD STA 506+21.72, 26.10 RT
NORTHING: 452526.511
EASTING: 1432069.7052

FOR ROUNDABOUT GEOMETRIC LAYOUT SEE SHEET 4

REF. LINE	P.I. STATION	P.I. NORTHING	P.I. EASTING	Δ	Δc	TANGENT LENGTH (FT)	ARC LENGTH (FT)	RADIUS (FT)	BEGIN CURVE	END CURVE
PH-TA	92+38.50	452519.54	1432070.36	104° 07′ 29″(LT)	97° 06′ 41″	75.69	107.22	59.00	91+62.81	92+70.03
	94+62.68	452519.54	1432070.36	216° 14′ 08″ (LT)	110° 11′ 03″	158.93	196.25	52.00	93+03.75	95+00.00

HORIZONTAL SCALE IN FEET
0 25 50 100

CALCULATED LZS
CHECKED JS

ROUNDABOUT - GEOMETRIC CURVE DATA
PLAINFIELD RD & HUNT RD

HAM-PLAINFIELD RD ROUNDABOUTS

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(A) REED HARTMAN HWY STA 732+45.93, 21.05 LT =
REF LINE PP-NW STA 105+41.10, ℄
NORTHING: 454252.03
EASTING: 1431959.05

(B) REED HARTMAN HWY STA 732+46.48, 2.94 RT =
REF LINE PP-NL STA 32+25.09, ℄
NORTHING: 454246.15
EASTING: 1431982.32

(C) REED HARTMAN HWY STA 732+98.82, 4.91 RT =
REF LINE PP-NR STA 42+79.61, ℄
NORTHING: 454295.49
EASTING: 1431999.32

(D) REED HARTMAN HWY STA 733+38.04, 28.41 RT =
REF LINE PP-NE STA 205+29.69, ℄
NORTHING: 454324.30
EASTING: 1432034.18

(E) PEPPERMILL LN. STA 952+62.90, 12.09 LT =
REF LINE PP-NE STA 200+00.00, ℄
NORTHING: 453961.39
EASTING: 1432202.08

(F) PEPPERMILL LN. STA 952+58.43, 1.15 LT =
REF LINE PP-EL STA 51+82.03, ℄
NORTHING: 453951.24
EASTING: 1432196.02

(G) PEPPERMILL LN. STA 952+65.45, 1.10 RT =
REF LINE PP-ER STA 61+92.10, ℄
NORTHING: 453950.13
EASTING: 1432202.9494

(H) PEPPERMILL LN. STA 952+74.06, 9.97 RT =
REF LINE PP-SE STA 303+70.20, ℄
NORTHING: 453937.90
EASTING: 1432209.80

(I) PLAINFIELD RD. STA 727+47.30, 35.00 RT =
REF LINE PP-SE STA 300+00.00, ℄
NORTHING: 453755.42
EASTING: 1431985.21

(J) PLAINFIELD RD. STA 727+47.30, 13.00 RT =
REF LINE PP-SR STA 70+00.00, ℄
NORTHING: 453753.32
EASTING: 1431963.31

(K) PLAINFIELD RD. STA 727+52.07, ℄ =
REF LINE PP-SL STA 80+00.00, ℄
NORTHING: 453756.82
EASTING: 1431949.92

(L) PLAINFIELD RD. STA 727+32.04, 22.00 LT =
REF LINE PP-SW STA 400+00.00, ℄
NORTHING: 453734.78
EASTING: 1431929.93

(M) PLAINFIELD RD. STA 901+57.84, 18.01 RT =
REF LINE PP-SW STA 404+64.34, ℄
NORTHING: 454051.68
EASTING: 1431649.84

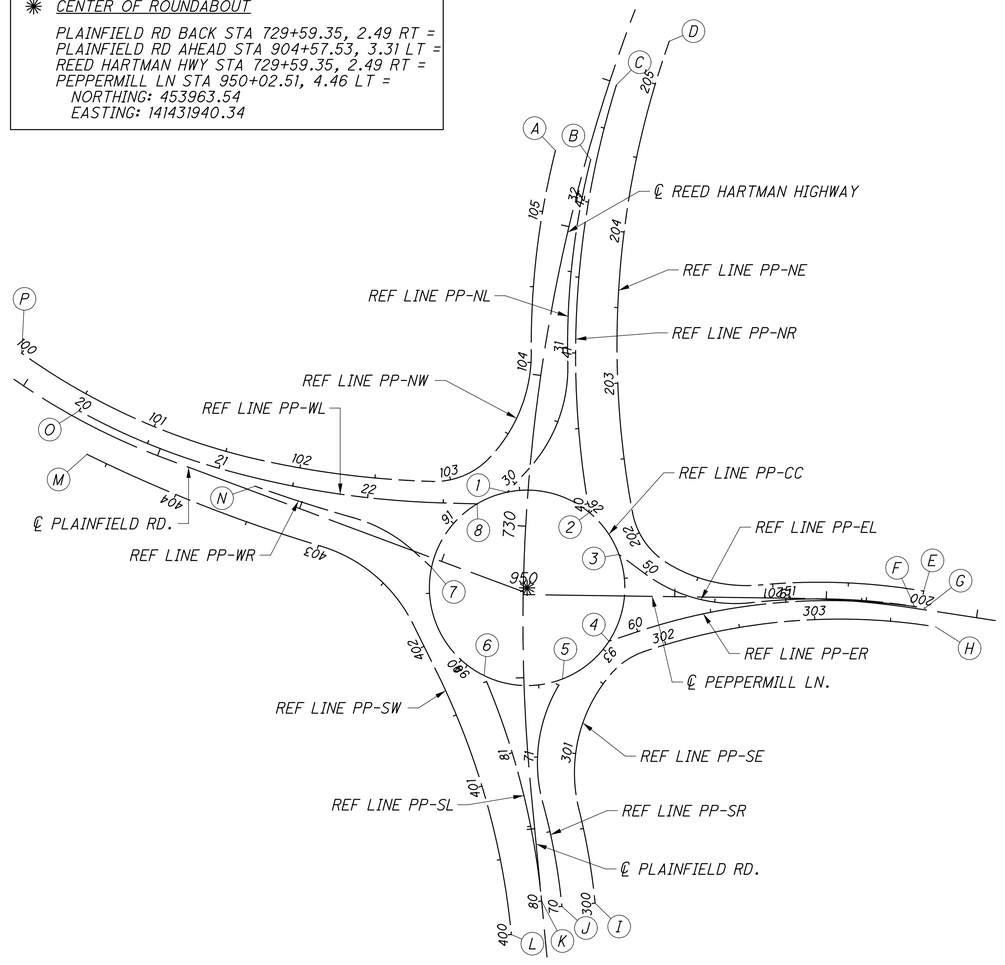
(N) PLAINFIELD RD. STA 902+67.28, 3.60 LT =
REF LINE PP-WR STA 10+00.00, ℄
NORTHING: 454030.66
EASTING: 1431760.73

(O) PLAINFIELD RD. STA 901+40.21, 5.00 LT =
REF LINE PP-WL STA 20+00.00, ℄
NORTHING: 454080.37
EASTING: 1431644.68

(P) PLAINFIELD RD. STA 900+86.48, 17.00 LT =
REF LINE PP-NW STA 100+00.00, ℄
NORTHING: 454118.42
EASTING: 1431606.73

✳ CENTER OF ROUNDABOUT

PLAINFIELD RD BACK STA 729+59.35, 2.49 RT =
PLAINFIELD RD AHEAD STA 904+57.53, 3.31 LT =
REED HARTMAN HWY STA 729+59.35, 2.49 RT =
PEPPERMILL LN STA 950+02.51, 4.46 LT =
NORTHING: 453963.54
EASTING: 141431940.34



FOR ROUNDABOUT CURVE DATA SEE SHEET 7

INTERSECTIONS WITH ROUNDABOUT CC

(1) PP-CC STA 91+41.75 = PP-NL 29+92.39
NORTHING: 454026.70
EASTING: 1431927.24

(2) PP-CC STA 91+99.51 = PP-NR 39+94.12
NORTHING: 454013.24
EASTING: 1431981.45

(3) PP-CC STA 92+33.77 = PP-EL 49+78.45
NORTHING: 453985.57
EASTING: 1432000.96

(4) PP-CC STA 92+93.53 = PP-ER 59+80.02
NORTHING: 453928.31
EASTING: 1431994.36

(5) PP-CC STA 93+33.71 = PP-SR 71+54.84
NORTHING: 453903.40
EASTING: 143196.65

(6) PP-CC STA 93+86.94 = PP-SL 81+54.16
NORTHING: 453905.61
EASTING: 1431911.98

(7) PP-CC STA 90+67.21 = PP-WR 11+30.03
NORTHING: 453977.04
EASTING: 1431877.27

(8) PP-CC STA 91+20.31 = PP-WL 22+72.41
NORTHING: 454018.97
EASTING: 1431907.35

N

HORIZONTAL SCALE IN FEET
0 25 50 100

CALCULATED LZS
CHECKED JS

ROUNDABOUT - GEOMETRIC LAYOUT
PLAINFIELD RD & PEPPERMILL LANE

HAM-PLAINFIELD RD ROUNDABOUTS

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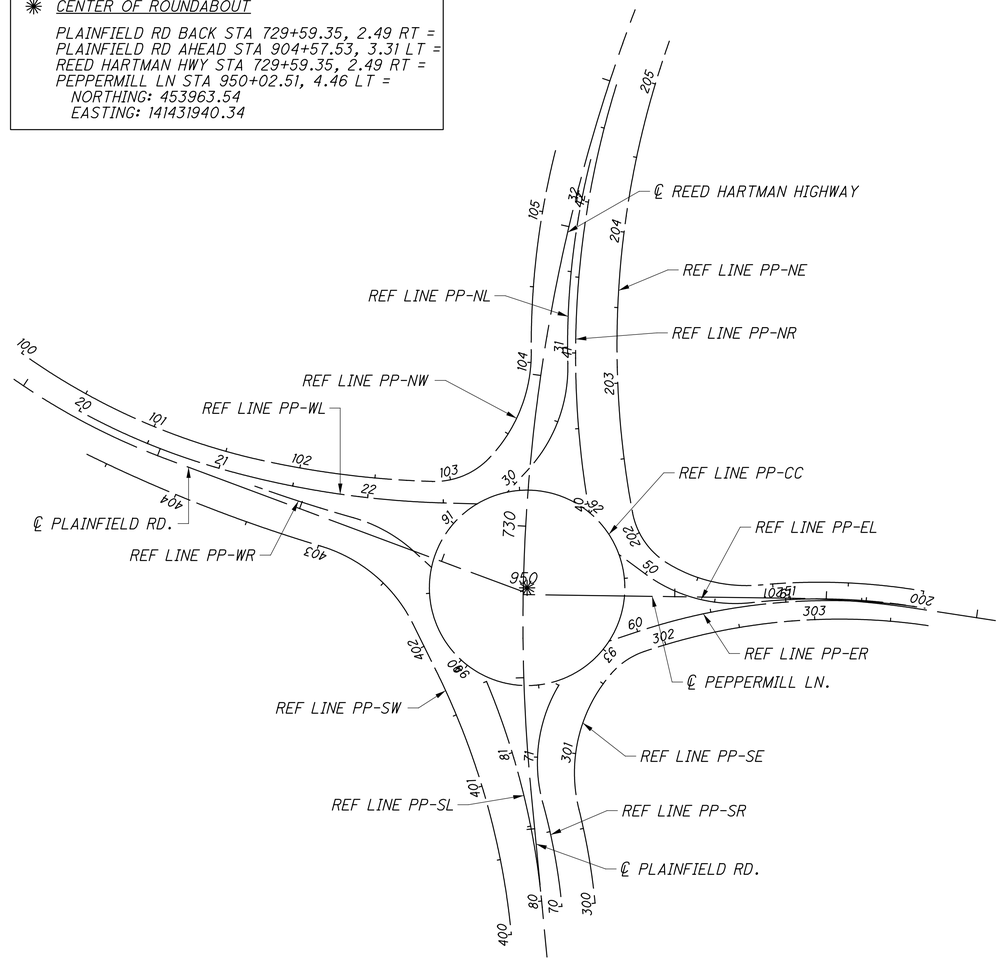
REF. LINE	P.I. STATION	P.I. NORTHING	P.I. EASTING	Δ	Δc	TANGENT LENGTH (FT)	ARC LENGTH (FT)	RADIUS (FT)	BEGIN CURVE	END CURVE
PP-CC	90+64.95	454083.77	1431879.22	90° 24′ 05″ (RT)	88° 49′ 50″	64.95	101.77	64.50	90+00.00	91+01.77
	92+60.16	454083.77	1431879.22	135° 41′ 12″ (RT)	88° 49′ 50″	158.39	152.75	64.50	91+01.77	92+54.52
	94+06.11	454083.77	1431879.22	133° 54′ 11″ (RT)	88° 49′ 50″	151.60	150.74	64.50	92+54.52	94+05.26
PP-NW	100+88.59	454469.88	1431858.57	23° 09′ 34″ (LT)	13° 16′ 52″	88.59	174.38	432.38	100+00.00	101+74.38
	102+31.34	454633.55	1431894.75	10° 50′ 48″ (LT)	9° 32′ 57″	56.96	113.59	600.00	101+74.38	102+87.96
	103+10.17	454083.77	1431879.22	47° 53′ 50″ (LT)	114° 35′ 30″	22.21	41.80	50.00	102+87.96	103+29.76
	103+70.37	454118.33	1431843.09	44° 12′ 10″ (LT)	57° 17′ 45″	40.61	77.15	100.00	103+29.76	104+06.91
	104+74.37	454123.58	1432467.06	14° 40′ 20″ (LT)	10° 56′ 04″	67.46	134.18	524.00	104+06.91	105+41.10
PP-NL	30+52.68	454109.09	1431867.24	44° 09′ 13″ (LT)	57° 17′ 45″	40.56	77.06	100.00	30+12.13	30+89.19
	31+57.56	454123.58	1432467.06	15° 34′ 24″ (RT)	11° 27′ 33″	68.37	135.90	500.00	30+89.19	32+25.09
PP-NR	41+42.39	454117.58	1432572.34	26° 42′ 03″ (RT)	9° 32′ 57″	142.39	279.61	600.00	40+00.00	42+79.61
PP-NE	200+54.25	453556.26	1432132.87	15° 02′ 19″ (LT)	13° 56′ 26″	54.25	107.88	411.00	200+00.00	201+07.88
	201+41.30	454065.03	1432085.28	36° 57′ 49″ (RT)	57° 17′ 45″	33.42	64.51	100.00	201+07.88	201+72.39
	201+94.53	454022.46	1432059.06	47° 46′ 18″ (RT)	114° 35′ 30″	22.14	41.69	50.00	201+72.39	202+14.08
	203+75.63	454123.71	1432599.66	30° 08′ 20″ (RT)	9° 32′ 57″	161.55	315.61	600.00	202+14.08	205+29.69
PP-EL	50+39.17	454053.20	1432077.71	42° 47′ 03″ (LT)	57° 17′ 45″	39.17	74.67	100.00	50+00.00	50+74.67
	51+28.82	453556.26	1432132.87	15° 25′ 03″ (RT)	14° 21′ 41″	54.14	107.35	400.00	50+74.67	51+82.03
PP-ER	60+97.94	453555.15	1432139.80	27° 31′ 01″ (RT)	14° 19′ 26″	97.94	192.10	400.00	60+00.00	61+92.10
PP-SE	300+31.51	453715.09	1431565.14	8° 32′ 34″ (LT)	13° 34′ 38″	31.51	62.90	422.00	300+00.00	300+62.90
	301+14.62	453841.59	1432071.58	54° 41′ 41″ (RT)	57° 17′ 45″	51.72	95.46	100.00	300+62.90	301+58.36
	301+71.99	453874.17	1432033.66	30° 29′ 46″ (RT)	180° 00′ 00″	13.63	16.94	50.00	301+58.36	301+75.30
	302+74.73	453542.91	1432146.65	27° 55′ 02″ (RT)	14° 19′ 26″	99.42	194.90	400.00	301+75.30	303+70.20
PP-SR	70+34.77	453715.09	1431565.14	9° 56′ 05″ (LT)	14° 19′ 26″	34.77	69.36	400.00	70+00.00	70+69.36
	71+11.26	453848.03	1432047.15	45° 28′ 07″ (RT)	57° 17′ 45″	41.90	79.36	100.00	70+69.36	71+48.71
PP-SL	80+74.71	453709.03	1431452.21	16° 59′ 49″ (LT)	11° 27′ 33″	74.71	148.33	500.00	80+00.00	81+48.33
PP-SW	400+92.22	453687.00	1431432.22	20° 53′ 59″ (LT)	11° 27′ 33″	92.22	182.38	500.00	400+00.00	401+82.38
	402+59.91	453895.32	1431775.39	46° 55′ 48″ (LT)	57° 17′ 45″	43.41	81.91	100.00	402+16.50	402+98.41
	403+81.57	454949.00	14320914.23	9° 30′ 25″ (RT)	5° 43′ 46″	83.15	165.93	1000.00	402+98.41	404+64.34
PP-WR	10+22.74	453913.62	1431798.36	2° 40′ 09″ (LT)	5° 52′ 23″	22.74	45.45	976.00	10+00.00	10+45.45
	10+56.77	454949.00	1432091.23	1° 19′ 47″ (LT)	5° 52′ 23″	11.33	22.64	976.00	10+45.45	10+68.09
	10+91.61	454949.00	1432091.23	26° 28′ 37″ (RT)	57° 17′ 45″	23.53	46.21	100.00	10+68.09	11+14.30
PP-WL	20+49.09	454469.88	1431858.57	12° 36′ 27″ (LT)	12° 53′ 37″	49.09	97.78	444.38	20+00.00	20+97.78
	21+74.57	454619.35	1431901.90	14° 35′ 10″ (LT)	9° 33′ 37″	76.79	152.57	600.00	20+97.78	22+50.35

✳ *CENTER OF ROUNDABOUT*

PLAINFIELD RD BACK STA 729+59.35, 2.49 RT =
PLAINFIELD RD AHEAD STA 904+57.53, 3.31 LT =
REED HARTMAN HWY STA 729+59.35, 2.49 RT =
PEPPERMILL LN STA 950+02.51, 4.46 LT =
NORTHING: 453963.54
EASTING: 141431940.34



FOR ROUNDABOUT GEOMETRIC LAYOUT SEE SHEET 6

HORIZONTAL SCALE IN FEET
0 25 50 100

CALCULATED LZS
CHECKED JS

ROUNDABOUT - GEOMETRIC CURVE DATA
PLAINFIELD RD & PEPPERMILL LANE

HAM-PLAINFIELD RD ROUNDABOUTS

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(A) KROGER ENTRANCE STA 6+90.14, 11.98 LT =
REF LINE HK-NW STA 103+96.19, ℄
NORTHING: 452281.15
EASTING: 1430888.58

(B) KROGER ENTRANCE STA 6+89.51, ℄ =
REF LINE HK-NL STA 31+27.40, ℄
NORTHING: 452281.98
EASTING: 1430900.55

(C) KROGER ENTRANCE STA 6+65.42, ℄ =
REF LINE HK-NR STA 41+09.83, ℄
NORTHING: 452258.08
EASTING: 1430903.50

(D) KROGER ENTRANCE STA 6+89.51, 12.00 RT =
REF LINE HK-NE STA 200+00.00, ℄
NORTHING: 452283.45
EASTING: 1430912.46

(E) EX. HUNT RD. STA 803.55.23, 25.00 LT =
REF LINE HK-NE STA 203+08.27, ℄
NORTHING: 452164.36
EASTING: 1431118.78

(F) EX. HUNT RD. STA 803+55.23, 10.00 LT =
REF LINE HK-EL STA 51+59.00, ℄
NORTHING: 452149.96
EASTING: 1431122.96

(G) EX. HUNT RD. STA 803+55.23, 6.00 RT =
REF LINE HK-ER STA 61+66.46, ℄
NORTHING: 452134.59
EASTING: 1431127.42

(H) EX. HUNT RD. STA 803+55.23, 18.00 RT =
REF LINE HK-WE STA 305+43.64, ℄
NORTHING: 452123.07
EASTING: 1431130.77

(I) EX. HUNT RD. STA 798+35.11, 19.77 RT =
REF LINE HK-WE STA 300+00.00, ℄
NORTHING: 452082.74
EASTING: 1430609.08

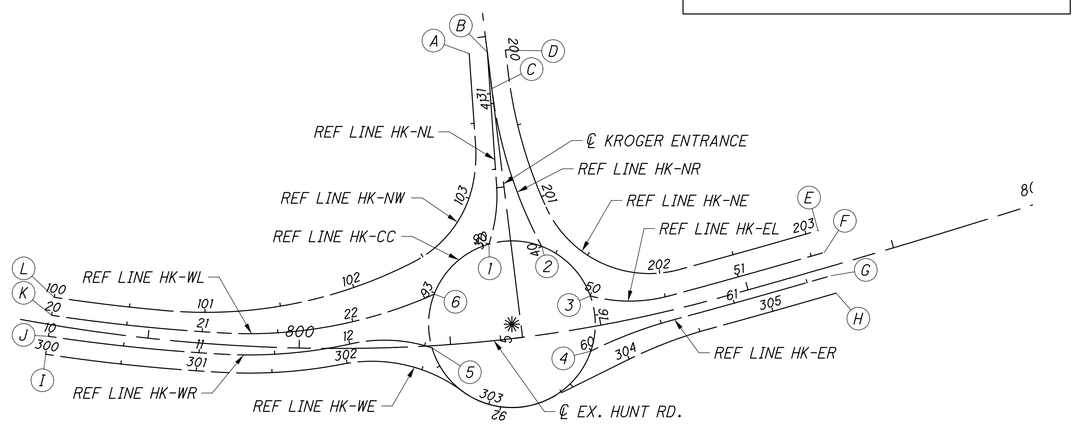
(J) EX. HUNT RD. STA 798+34.92, 7.77 RT =
REF LINE HK-WR STA 10+00.00, ℄
NORTHING: 452094.60
EASTING: 1430610.87

(K) EX. HUNT RD. STA 798+34.69, 6.22 LT =
REF LINE HK-WL STA 20+00.00, ℄
NORTHING: 452108.45
EASTING: 1430612.95

(L) EX. HUNT RD. STA 798+34.50, 18.22 LT =
REF LINE HK-NW STA 100+00.00, ℄
NORTHING: 452120.31
EASTING: 1430614.74

✳ CENTER OF ROUNDABOUT

EX. HUNT RD STA 801+41.81, 9.42 LT =
KROGER ENTRANCE STA 5+09.43, 5.87 LT
NORTHING: 452102.54
EASTING: 1430916.79



FOR ROUNDABOUT CURVE DATA SEE SHEET 9

INTERSECTIONS WITH ROUNDABOUT CC

(1) HK-CC STA 90+04.23 = HK-NL 30+00.00
NORTHING: 452155.39
EASTING: 1430901.55

(2) HK-CC STA 90+39.72 = HK-NR 40+00.00
NORTHING: 452153.93
EASTING: 1430936.39

(3) HK-CC STA 90+87.00 = HK-EL 50+00.00
NORTHING: 452121.23
EASTING: 1430968.52

(4) HK-CC STA 91+21.14 = HK-ER 60+00.00
NORTHING: 452084.79
EASTING: 1430968.85

(5) HK-CC STA 92+63.01 = HK-WR 12+55.11
NORTHING: 452086.92
EASTING: 1430864.06

(6) HK-CC STA 92+99.12 = HK-WL 22+56.85
NORTHING: 452122.35
EASTING: 1430865.48

HORIZONTAL SCALE IN FEET
0 25 50 100
CALCULATED LZS
CHECKED JS

ROUNDABOUT - GEOMETRIC LAYOUT
HUNT RD & KROGER ENTRANCE

HAM-PLAINFIELD RD
ROUNDABOUTS

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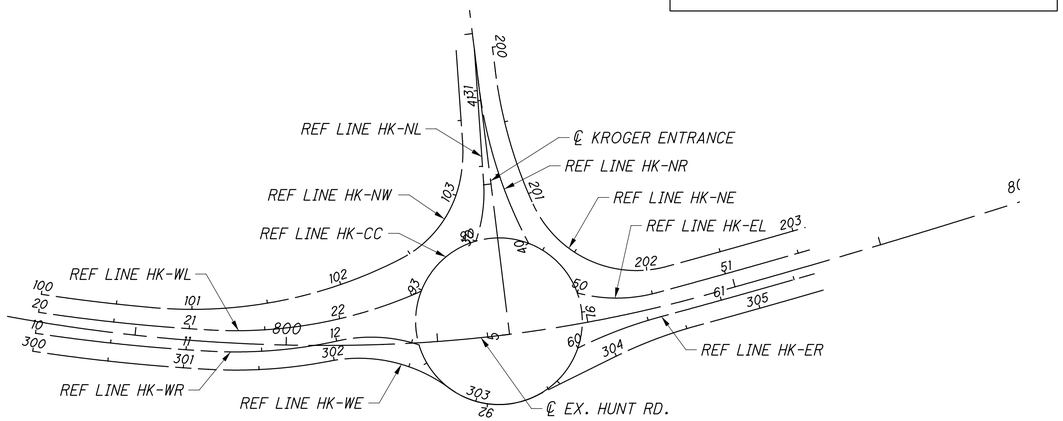
REF. LINE	P.I. STATION	P.I. NORTHING	P.I. EASTING	Δ	Δc	TANGENT LENGTH (FT)	ARC LENGTH (FT)	RADIUS (FT)	BEGIN CURVE	END CURVE
HK-CC	91+08.12	452102.54	1430916.79	180° 00′ 00″ (RT)	104° 10′ 27″	N/A	172.79	55.00	90+00.00	91+72.79
	92+80.90	452102.54	1430916.79	180° 00′ 00″ (RT)	104° 10′ 27″	N/A	172.79	55.00	91+72.79	93+45.58
HK-NW	100+36.98	453306.89	1430793.74	3° 31′ 48″(LT)	4° 46′ 29″	36.98	73.93	1200.00	100+00.00	100+73.93
	101+60.85	452410.38	1430714.54	32° 18′ 57″ (LT)	19° 05′ 55″	86.92	169.21	300.00	100+73.93	102+43.14
	102+80.50	452210.38	1430817.62	52° 57′ 51′ (LT)	76° 23′ 40″	37.36	69.33	75.00	102+43.14	103+12.47
	103+24.54	452214.62	1430792.99	30° 44′ 14″ (LT)	57° 17′ 45″	12.07	24.02	100.00	103+12.47	103+36.49
HK-NL	30+10.84	452187.66	1430806.90	30° 10′ 58″ (LT)	57° 17′ 45″	30.84	59.83	100.00	29+80.00	30+39.83
HK-NR	40+45.95	452294.83	1431104.77	24° 47′ 45″ (RT)	19° 05′ 55″	65.95	129.83	300.00	39+80.00	41+09.83
HK-NE	200+62.02	452304.64	1431212.13	17° 33′ 38″ (LT)	19° 05′ 55″	46.34	91.95	300.00	200+15.69	201+07.63
	201+71.28	452210.98	1431007.54	80° 38′ 06″ (LT)	76°23′ 40″	63.64	105.55	75.00	201+07.63	202+13.19
	202+33.90	457642.74	1429528.44	0° 57′ 18″ (LT)	1° 00′ 16″	47.54	95.08	5704.54	202+13.19	203+08.27
HK-EL	50+18.02	452217.80	1430994.48	41° 37′ 53″ (LT)	57° 17′ 45″	38.02	72.66	100.00	49+80.00	50+52.66
	51+05.83	457642.74	1429528.44	1° 03′ 55″ (LT)	1° 00′ 06″	53.17	106.34	5719.54	50+52.66	51+59.00
HK-ER	60+19.58	451815.90	1431101.89	15° 02′ 01″ (RT)	19° 05′ 55″	39.58	78.72	300.00	59+80.00	60+58.72
	61+12.59	457642.74	1429528.44	1° 04′ 35″ (LT)	0° 59′ 56″	53.87	107.74	5735.54	60+58.72	61+66.46
HK-WE	300+58.39	453306.89	1430793.74	5° 24′ 02″ (LT)	4° 37′ 41″	58.39	116.69	1238.00	300+00.00	301+16.69
	301+57.20	452396.29	1430743.18	14° 09′ 59″ (LT)	17° 34′ 31″	40.51	80.60	326.00	301+16.69	301+97.29
	302+41.27	451978.10	1430824.38	47° 34′ 25″ (RT)	57° 17′ 45″	44.08	83.03	100.00	301+97.29	302+80.32
	303+14.00	452102.60	1430916.79	62° 55′ 03″ (LT)	104° 04′ 43″	33.68	60.45	55.05	302+80.32	303+40.78
	304+27.59	451810.08	1431126.18	11° 00′ 49″ (RT)	19° 05′ 55″	28.92	57.67	300.00	303+98.67	304+56.34
	304+99.90	457643.08	1429528.35	0° 52′ 06″ (LT)	0° 59′ 49″	43.56	87.12	5747.89	304+56.34	305+43.46
HK-WR	10+57.82	453306.89	1430793.74	5° 24′ 02″ (LT)	4° 40′ 24″	57.82	115.56	1226.00	10+00.00	11+15.56
	11+58.66	452396.29	1430743.18	15° 14′ 49″ (LT)	18° 14′ 49″	43.11	85.68	314.00	11+15.56	12+01.24
	12+39.95	451992.03	1430832.48	42° 19′ 28″ (RT)	57′ 17′ 45″	38.71	73.87	100.00	12+01.24	12+75.11
HK-WL	20+57.16	453306.89	1430793.74	5° 24′ 02″ (LT)	4° 43′ 39″	57.16	114.24	1212.00	20+00.00	21+14.24
	21+97.59	452396.29	1430743.18	31° 03′ 20″ (LT)	19° 05′ 55″	83.35	162.61	300.00	21+14.24	22+76.85

✳ CENTER OF ROUNDABOUT

EX. HUNT RD STA 801+41.81, 9.42 LT =
KROGER ENTRANCE STA 5+09.43, 5.87 LT
NORTHING: 452102.54
EASTING: 1430916.79



FOR ROUNDABOUT GEOMETRIC LAYOUT SEE SHEET 8

HORIZONTAL SCALE IN FEET
0 25 50 100

CALCULATED LZS
CHECKED JS

ROUNDABOUT - GEOMETRIC CURVE DATA
HUNT RD & KROGER ENTRANCE

HAM-PLAINFIELD RD
ROUNDABOUTS

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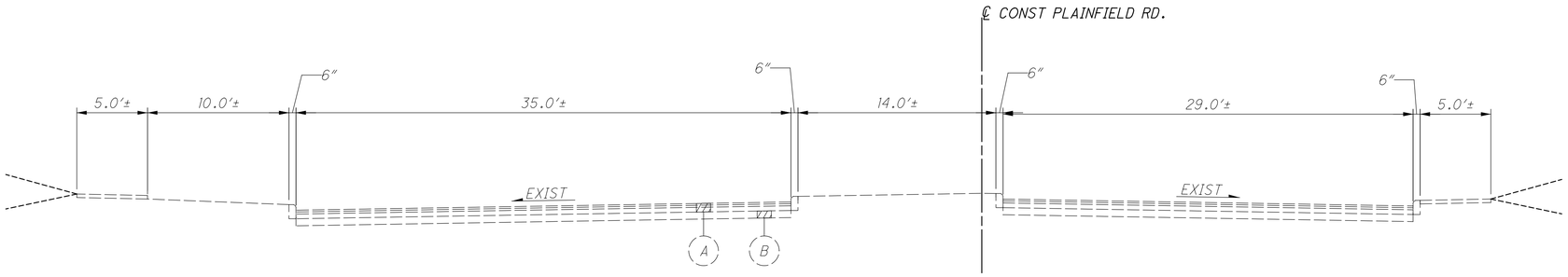
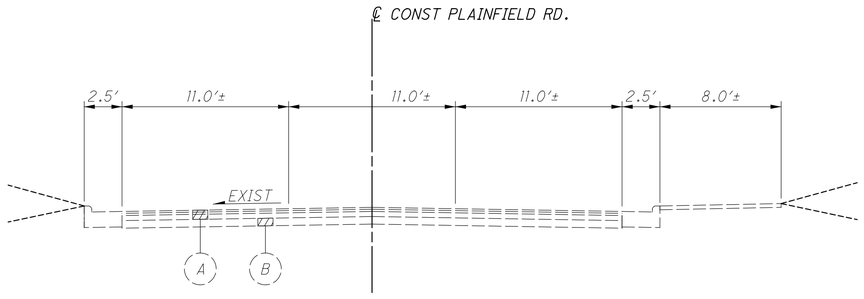


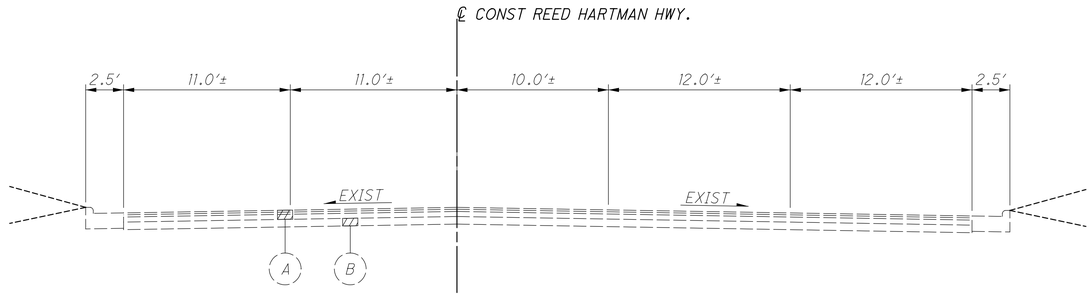
EXISTING PLAINFIELD RD.

STA 707+33.00



EXISTING PLAINFIELD RD.

STA 901+35.00



EXISTING REED HARTMAN HWY.

STA 734+10.00

LEGEND

1. ITEM 441 - 1 ½" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22
2. ITEM 407 - TACK COAT
3. ITEM 441 - 1 ¾" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)
4. ITEM 301 - 7" ASPHALT CONCRETE BASE, PG64-22
5. ITEM 304 - 6" AGGREGATE BASE
6. ITEM 206 - CEMENT STABILIZED SUBGRADE (5%), 14" DEPTH
7. ITEM 204 - PROOF ROLLING
8. ITEM 609 - COMBINATION CURB AND GUTTER, TYPE 2
9. ITEM 609 - CURB, TYPE 6
10. ITEM 609 - CURB, TYPE 9
11. ITEM 609 - COMBINATION CURB AND GUTTER, TYPE 2
12. ITEM SPECIAL - BRICK PAVERS, AS PER PLAN
13. ITEM 659 - SEEDING AND MULCHING, AS PER PLAN
14. ITEM 608 - 5" CONCRETE WALK
15. ITEM 659 - 3" TOPSOIL FURNISHED AND PLACED
16. ITEM 605 - 6" SHALLOW PIPE UNDERDRAINS
17. ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE, VARIABLE DEPTH
18. ITEM 204 - SUBGRADE COMPACTION
19. ITEM 609 - CURB, TYPE 8
20. ITEM 442 - 1 ½" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22
21. ITEM 442 - 1 ¾" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)
22. ITEM 609 - CURB, TYPE 7

A. 9"± EX ASPHALT CONCRETE

B. 6"± EX AGGREGATE BASE

CALCULATED LZS
CHECKED JS

TYPICAL SECTIONS

HAM-PLAINFIELD RD ROUNDABOUTS

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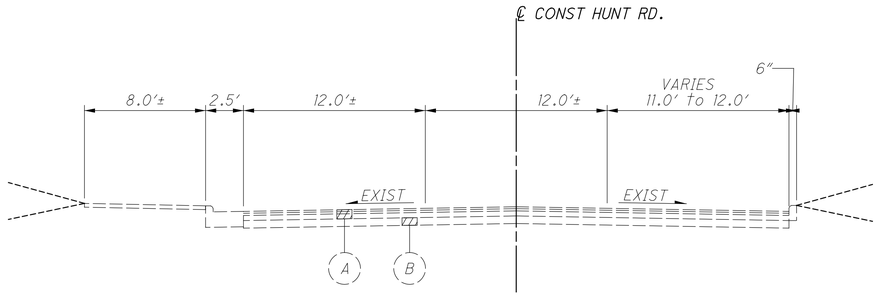
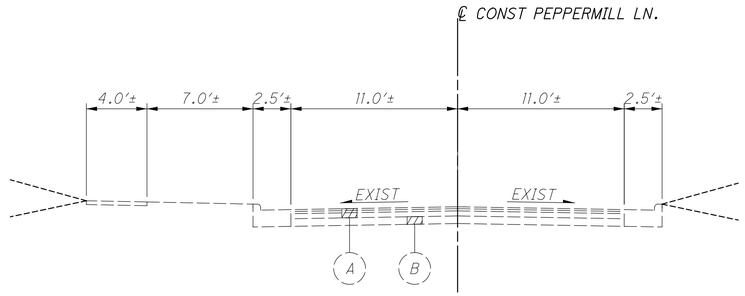


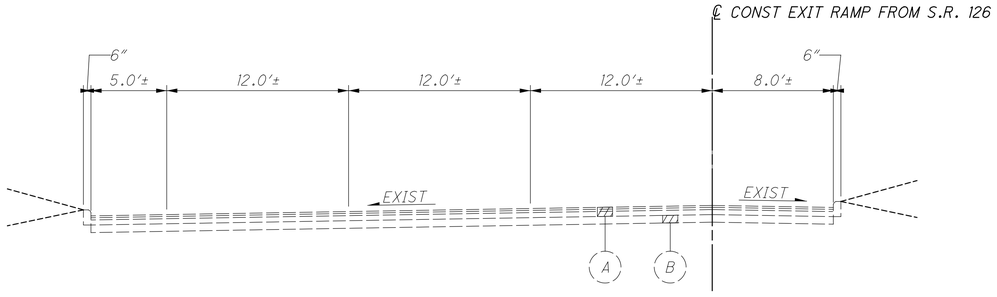
EXISTING HUNT RD.

STA 798+75.00
STA. 818+50.00



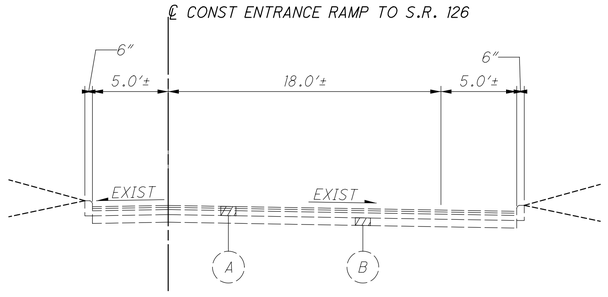
EXISTING PEPPERMILL LN

STA 952+88.00



EXISTING EXIT RAMP FROM S.R. 126

STA 507+60.00



EXISTING ENTRANCE RAMP TO S.R. 126

STA 609+60.00

FOR LEGEND SEE SHEET 10

CALCULATED LZS
CHECKED JS

TYPICAL SECTIONS

HAM-PLAINFIELD RD
ROUNDABOUTS

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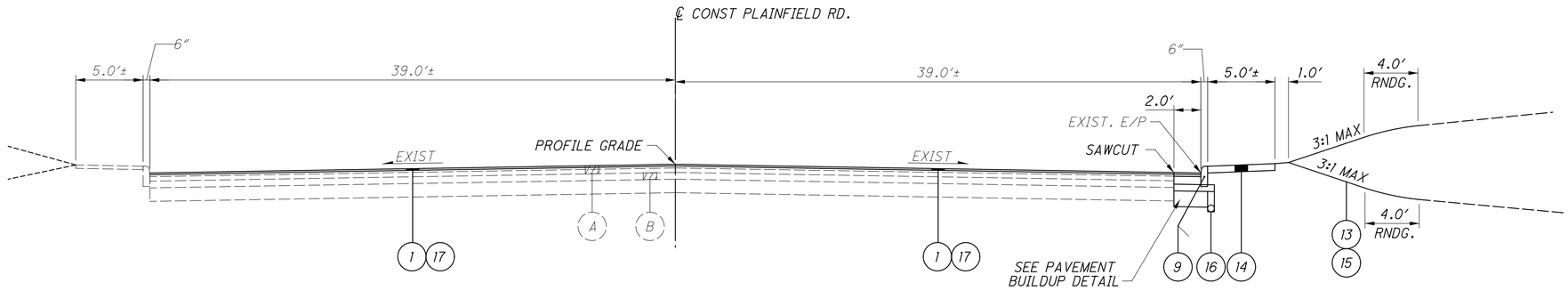
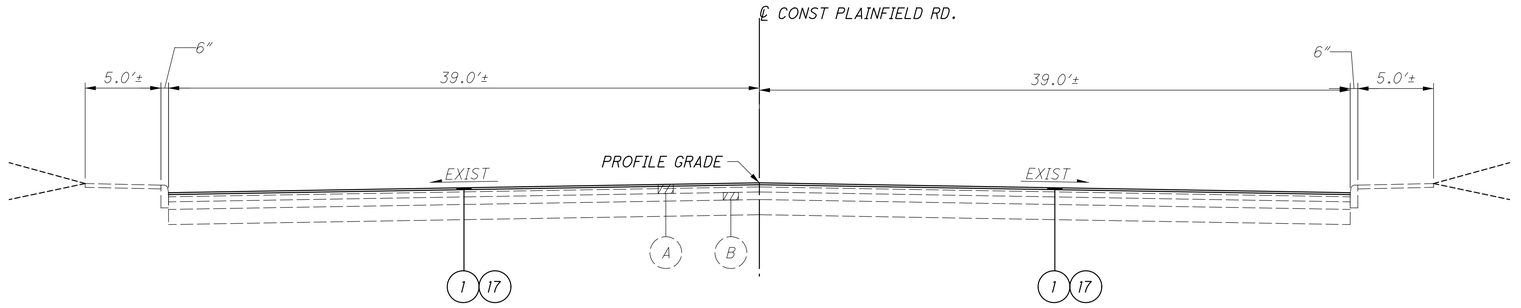


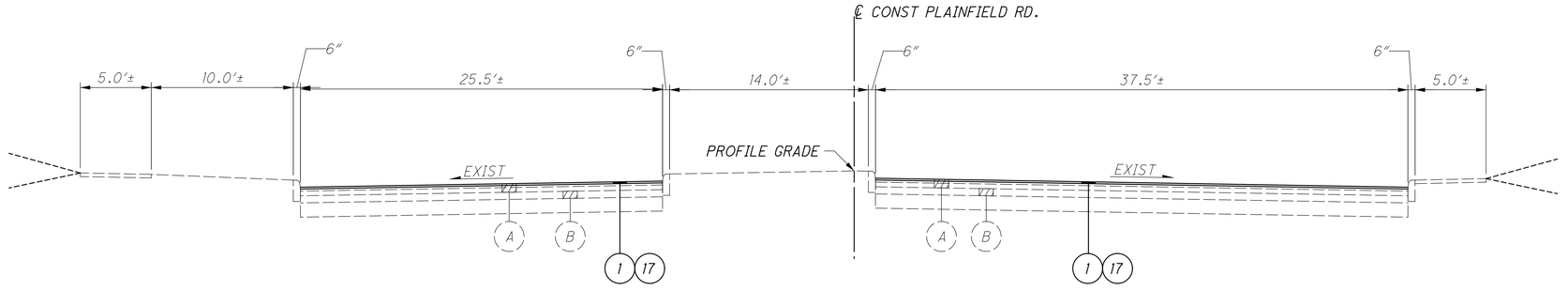
RESURFACING SECTION - PLAINFIELD RD.

STA 708+00.00 TO STA 709+77.67



RESURFACING SECTION - PLAINFIELD RD.

STA 707+79.23 TO STA 708+00.00



RESURFACING SECTION - PLAINFIELD RD.

STA 707+33.00 TO STA STA 707+79.23

FOR LEGEND SEE SHEET 10

CALCULATED LZS
CHECKED JS

TYPICAL SECTIONS

HAM-PLAINFIELD RD
ROUNDABOUTS

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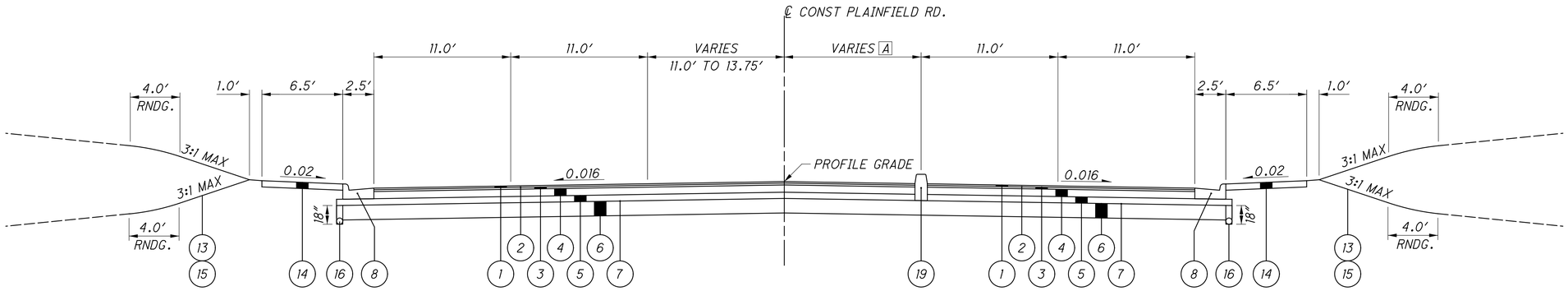
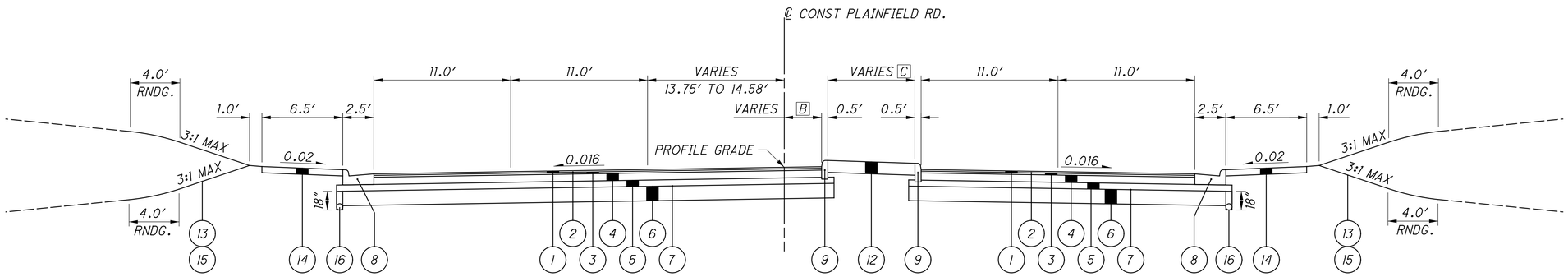


NORMAL SECTION - PLAINFIELD RD.

STA 711+65.30 TO STA 712+94.63

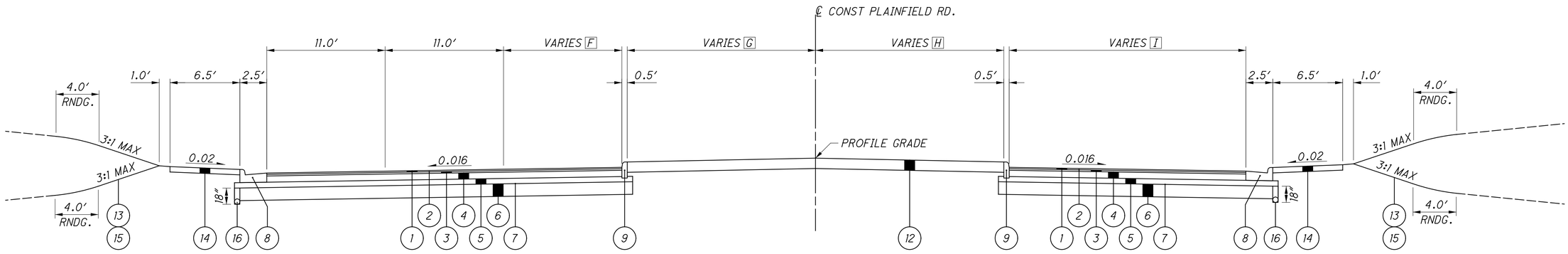
A 11.00′ TO 8.84′, STA 711+65.30 TO STA 712+79.59
8.33′ TO 6.78′, STA 712+79.59 TO STA 712+94.63



NORMAL SECTION - PLAINFIELD RD.

STA 712+94.63 TO STA 713+17.28

B 6.78′ TO 0.0′, STA 712+94.63 TO STA 713+17.28
C 0.0′ TO 5.25′, STA 712+94.63 TO STA 713+17.28



NORMAL SECTION - PLAINFIELD RD.

STA 713+17.28 TO STA 714+36.27

SEE ROUNDABOUT DETAILS - STA. 714+36.27 TO STA. 715+88.93

F 14′-7″ TO 3′-0″, STA 713+17.28 TO STA 713+76.92
3′-0″, STA 713+76.92 TO STA 714+03.27
G 0′-0″ TO 30′-7″, STA 713+17.28 TO STA 714+36.27
H 5′-3″ TO 2′-3″, STA 713+17.28 TO STA 713+81.40
2′-3″ TO 16′-7″, STA 713+81.40 TO STA 714+36.27
I 22.0′, STA 713+17.28 TO STA 713+66.41
22.0′ TO 25.75′, STA 713+66.41 TO STA 714+36.27

FOR LEGEND SEE SHEET 10

CALCULATED LZS
CHECKED JS

TYPICAL SECTIONS

HAM-PLAINFIELD RD
ROUNDABOUTS

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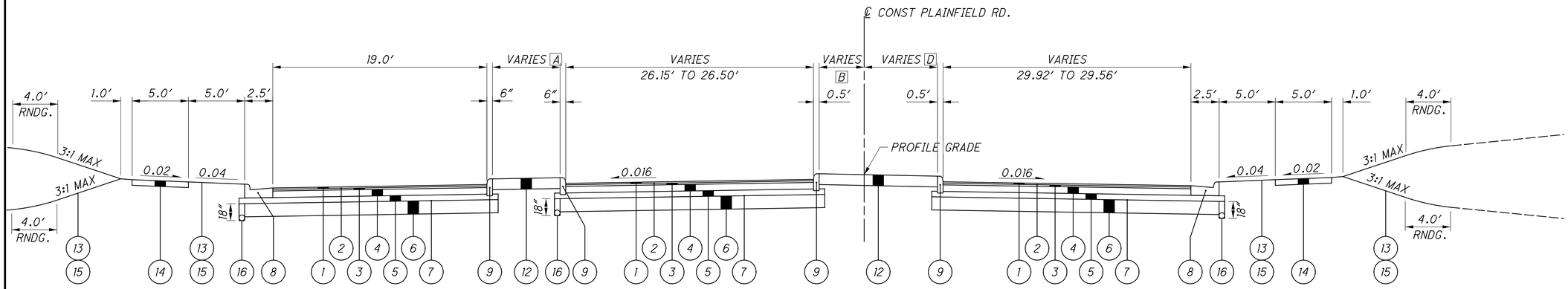
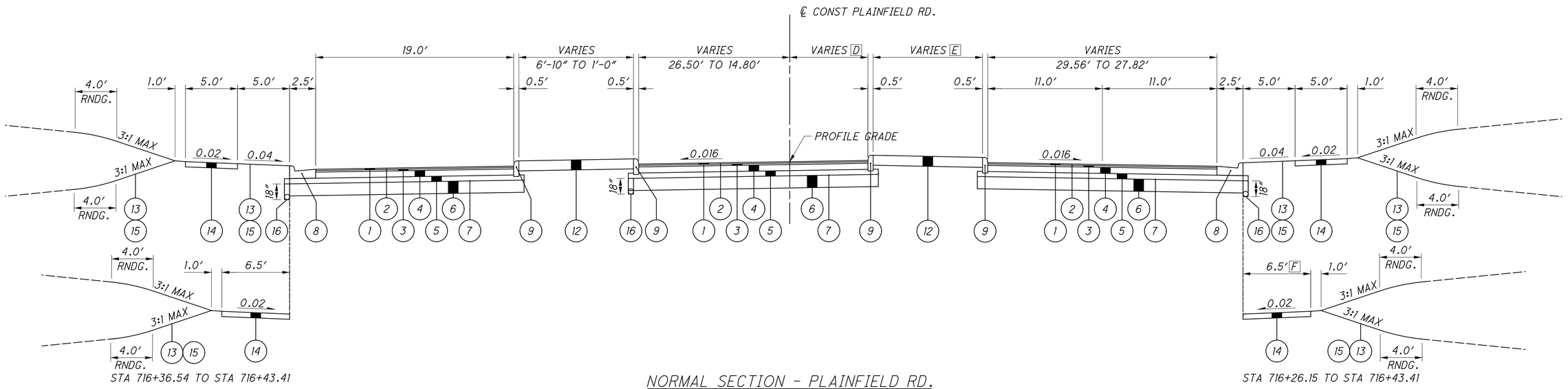


NORMAL SECTION - PLAINFIELD RD.

STA 715+88.93 TO STA 715+99.71

A 9′-3″ TO 6′-11″
B 4′-8″ TO 0′-0″
C 32′-0″ TO 29′-0″



STA 716+36.54 TO STA 716+43.41

NORMAL SECTION - PLAINFIELD RD.

STA 715+99.71 TO STA 716+43.41

STA 716+26.15 TO STA 716+43.41

D 0′-0″ TO 9′-10″
E 29′-0″ TO 9′-3″
F 10′-0″ TO 6′-6″, STA 716+29.02 TO STA 716+42.24

FOR LEGEND SEE SHEET 10

CALCULATED LZS
CHECKED JS

TYPICAL SECTIONS

HAM-PLAINFIELD RD ROUNDABOUTS

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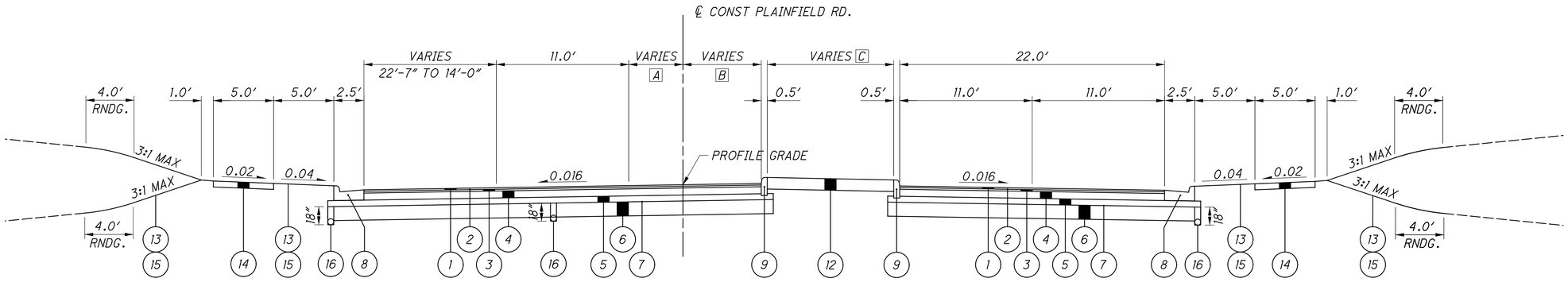


NORMAL SECTION - PLAINFIELD RD.

STA 716+43.41 TO STA 717+60.00 RT
STA 716+43.41 TO STA 717+65.00 LT

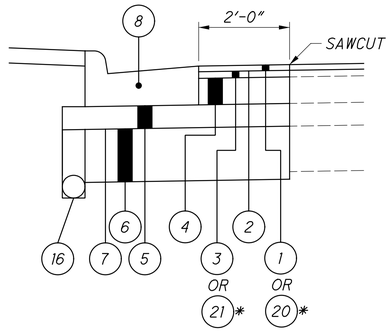
A 2'-3" TO 9'-10"

B 9'-10" TO 4'-3"

C 9'-3" TO 5'-10", STA 716+43.41 TO STA 717+08.17
5'-10" TO 8'-7", STA 717+08.17 TO STA 717+60 RT
5'-10" TO 8'-10", STA 717+08.17 TO STA 717+6T LT

NOTE:
THE EXISTING PAVEMENT EDGES SHALL BE SAW CUT TO LOCATE A SOUND PAVEMENT EDGE PER SECTION 203.04 OF THE CMS. FOR ESTIMATING PURPOSES, PAVEMENT CALCULATIONS INCLUDED IN THE PLAN INDICATE AN AVERAGE WIDTH OF 2 FT OF EXISTING PAVEMENT BEING REPLACED.

* APPLIES ONLY TO SR 126 ENTRANCE RAMP BUILDUP



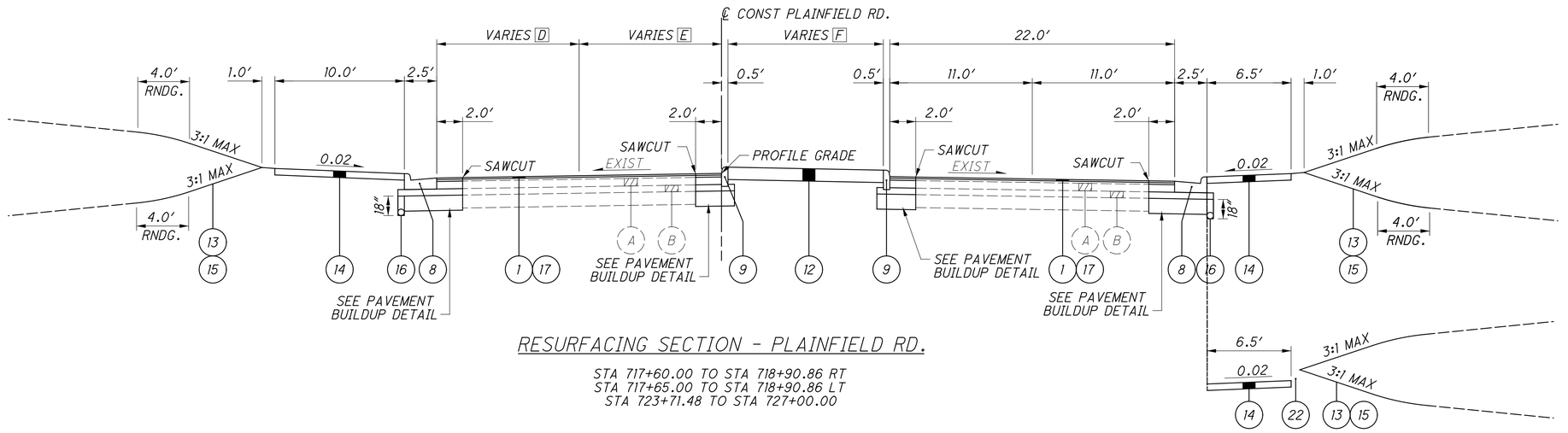
FULL DEPTH PAVEMENT BUILDUP DETAIL

NOT TO SCALE

D 25.0', STA 717+60.00 TO STA 718+14.02
25.0' TO 17.17' STA 718+14.02 TO STA 718+70.15
11.0', STA 723+71.48 TO STA 727+00.00

E 10.0' TO 2.92', STA 718+14.90 TO STA 718+70.15
2.92' TO 10.0', STA 723+11.46 TO STA 724+00.19

F 10.0' TO 2.92', STA 718+14.90 TO STA 718+70.15
2.92' TO 10.0', STA 723+11.46 TO STA 724+00.19
10.0', STA 724+00.19 TO STA 727+00.00



RESURFACING SECTION - PLAINFIELD RD.

STA 717+60.00 TO STA 718+90.86 RT
STA 717+65.00 TO STA 718+90.86 LT
STA 723+71.48 TO STA 727+00.00

STA 723+71.96 TO STA 725+75.27

FOR LEGEND SEE SHEET 10

CALCULATED LZS
CHECKED JS

TYPICAL SECTIONS

HAM-PLAINFIELD RD ROUNDABOUTS

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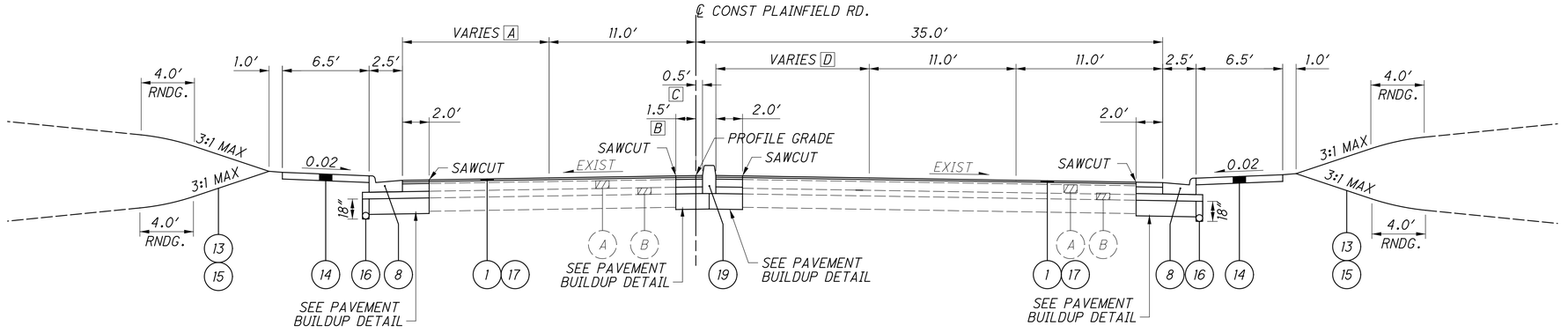


RESURFACING SECTION - PLAINFIELD RD.

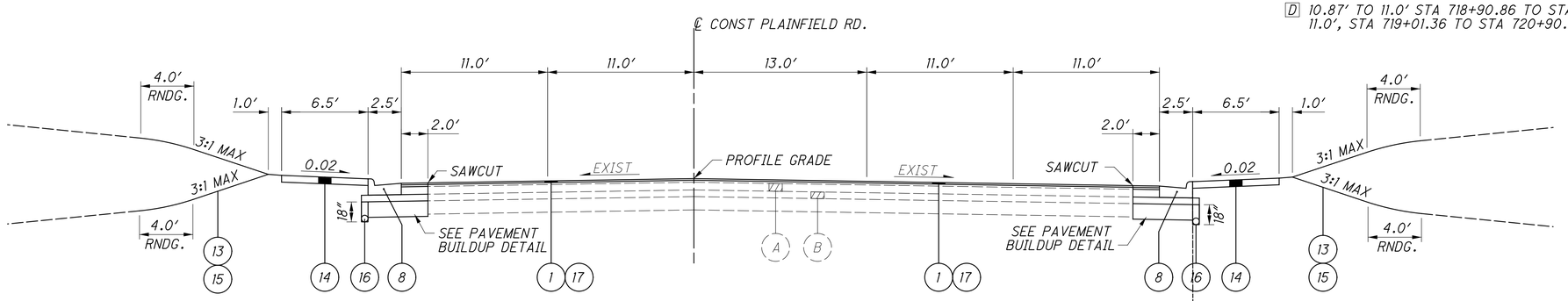
STA 718+90.86 TO STA 720+90.88

A 14.24′ TO 11.0′ STA 718+90.86 TO STA 719+14.02
11.0′, STA 718+90.86 TO STA 720+90.88

B 1.0′, STA 718+90.86 TO STA 718+91.26
1.0′ TO 1.5′, STA 718+91.26 TO STA 719+01.28
1.5′, STA 719+01.28 TO STA 720+90.88

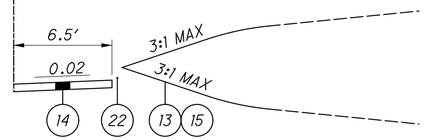
C 1.0′, STA 718+90.86 TO STA 718+91.26
1.0′ TO 0.5′, STA 718+91.26 TO STA 719+01.28
0.5′, STA 719+01.28 TO STA 720+90.88

D 10.87′ TO 11.0′ STA 718+90.86 TO STA 719+01.36
11.0′, STA 719+01.36 TO STA 720+90.88

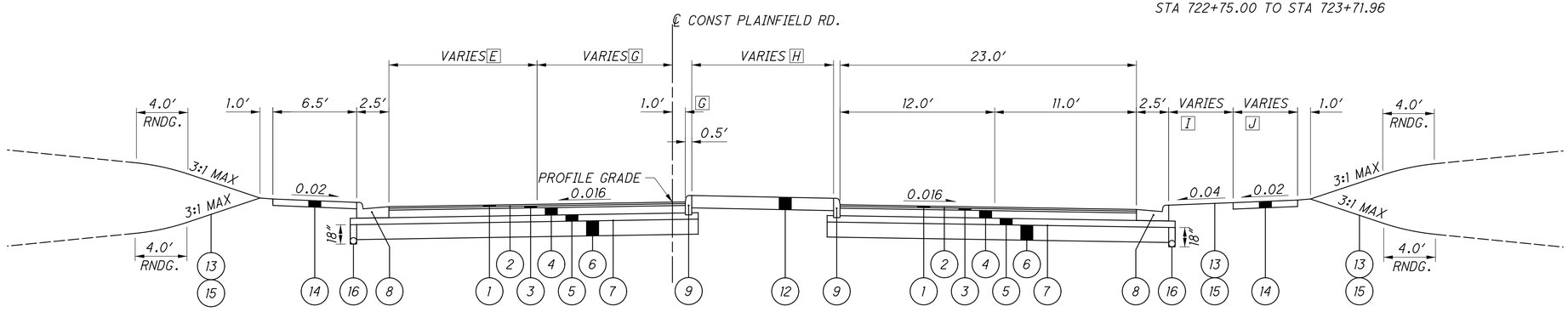


RESURFACING SECTION - PLAINFIELD RD.

STA 720+90.88 TO STA 723+71.48



STA 722+75.00 TO STA 723+71.96



NORMAL SECTION - PLAINFIELD RD.

STA 727+00.00 TO STA 727+91.46

E 11.0′, STA 727+00.00 TO STA 727+42.00
11.0′ TO 12.0′, STA 727+42.00 TO STA 727+91.46

F 11.0′, STA 727+00.00 TO STA 727+42.00
11.0′ TO 13.33′, STA 727+42.00 TO STA 727+91.46

G 1.0′ TO 0.0′, STA 727+59.85 TO STA 727+91.46

H 10.0′, STA 727+00.00 TO STA 727+47.30
10.0′ TO 8.58′, STA 727+47.30 TO STA 727+91.46

I 11.08′ TO 10.0′, STA 726+95.42 TO STA 727+29.73
10.0′ TO 6.67′, STA 727+29.73 TO STA 727+91.46

J 3.91′ TO 5.0′, STA 726+95.42 TO STA 727+29.73
5.0′, STA 727+29.73 TO STA 727+91.46

FOR LEGEND SEE SHEET 10
FOR PAVEMENT BUILDUP DETAIL SEE SHEET 15

CALCULATED LZS
CHECKED JS

TYPICAL SECTIONS

HAM-PLAINFIELD RD ROUNDABOUTS

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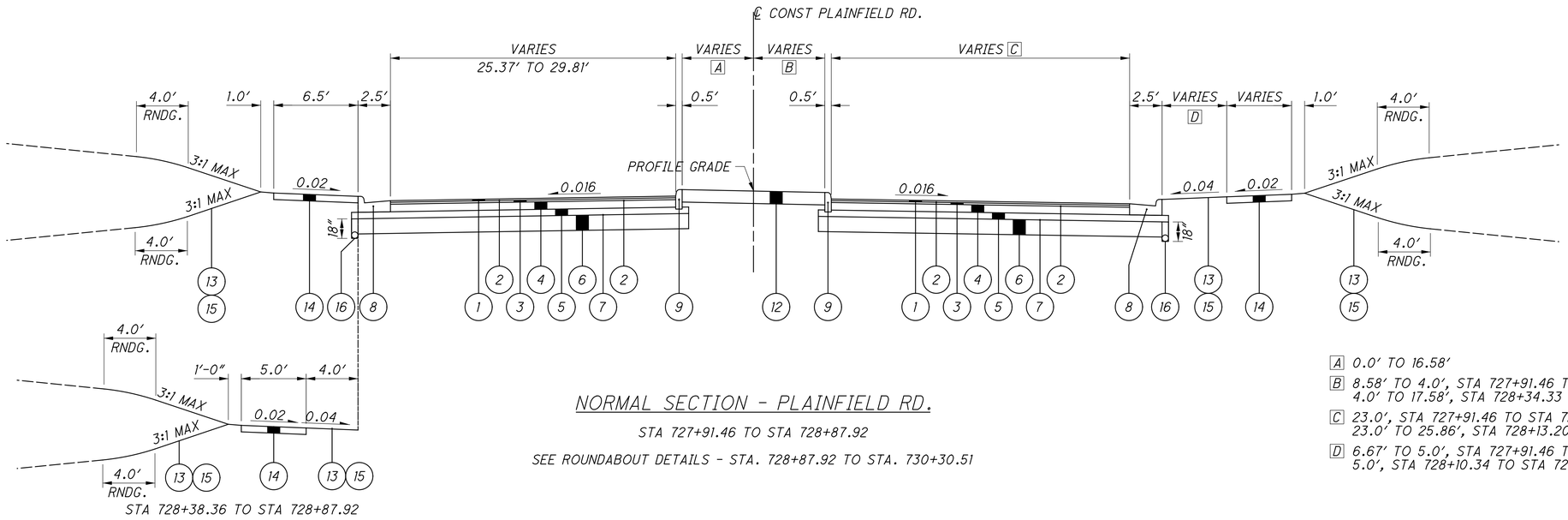


NORMAL SECTION - PLAINFIELD RD.

STA 727+91.46 TO STA 728+87.92

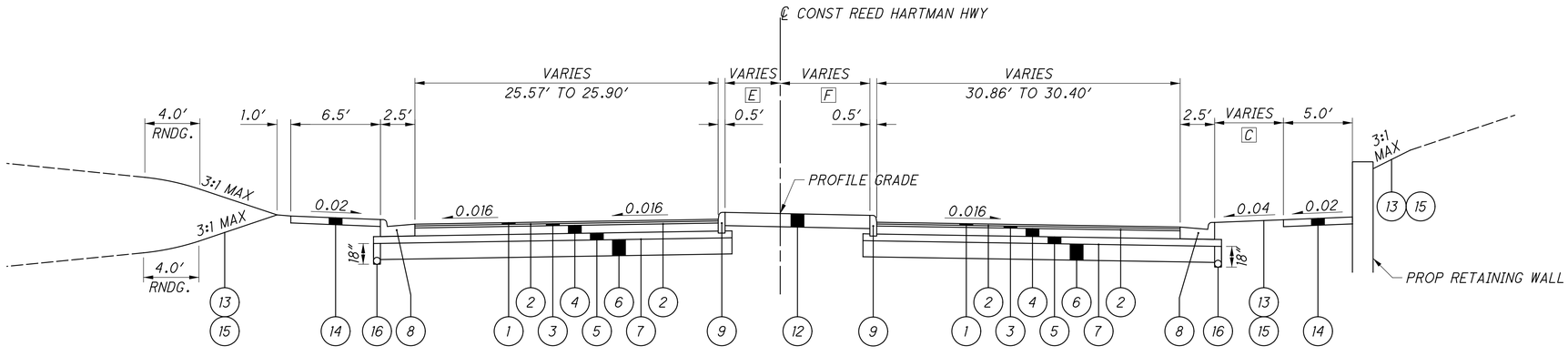
SEE ROUNDABOUT DETAILS - STA. 728+87.92 TO STA. 730+30.51

A 0.0' TO 16.58'

B 8.58' TO 4.0', STA 727+91.46 TO STA 728+34.33
4.0' TO 17.58', STA 728+34.33 TO STA 728+87.92

C 23.0', STA 727+91.46 TO STA 728+13.20
23.0' TO 25.86', STA 728+13.20 TO STA 728+87.92

D 6.67' TO 5.0', STA 727+91.46 TO STA 728+10.34
5.0', STA 728+10.34 TO STA 728+87.92



NORMAL SECTION - REED HARTMAN HWY

STA 730+30.51 TO STA 730+36.40

E 4.25' TO 0.0'

E 33.25' TO 32.75'

FOR LEGEND SEE SHEET 10
FOR WALL DETAILS SEE SHEETS 328 - 335

CALCULATED LZS
CHECKED JS

TYPICAL SECTIONS

HAM-PLAINFIELD RD ROUNDABOUTS

17
335

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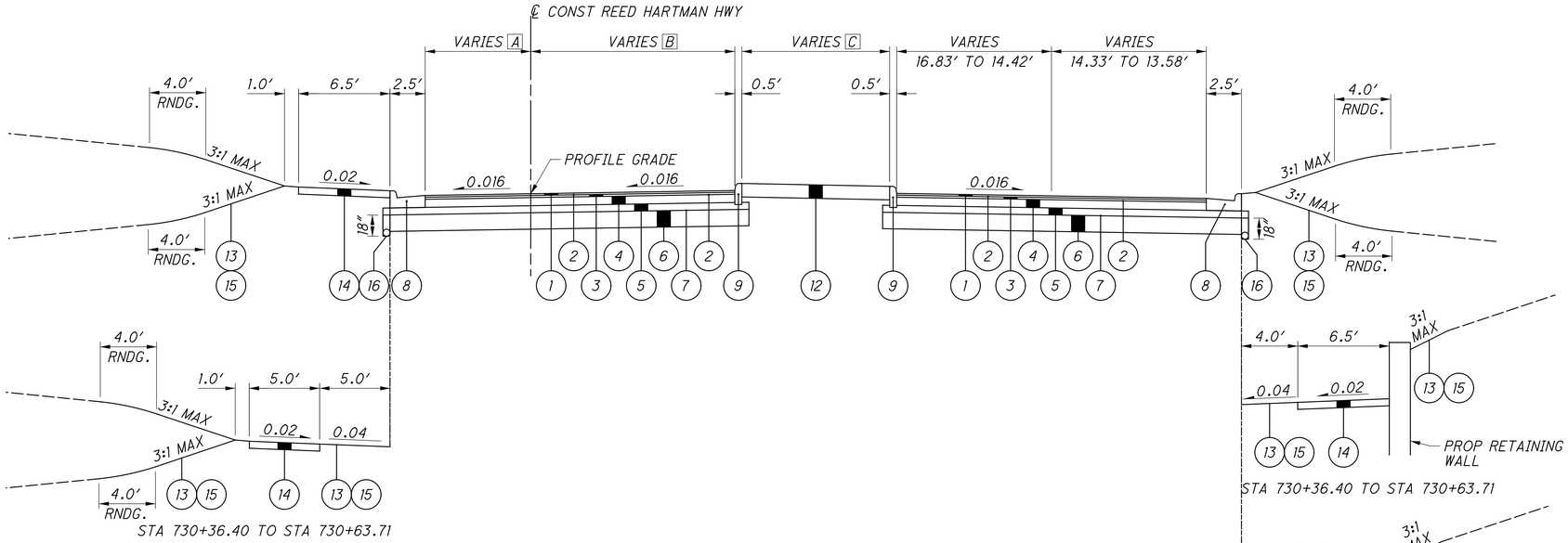
A 33.33′ TO 7.25′, STA 730+36.39 TO STA 731+02.02
7.25′ TO 16.0′, STA 731+02.02 TO STA 731+68.44

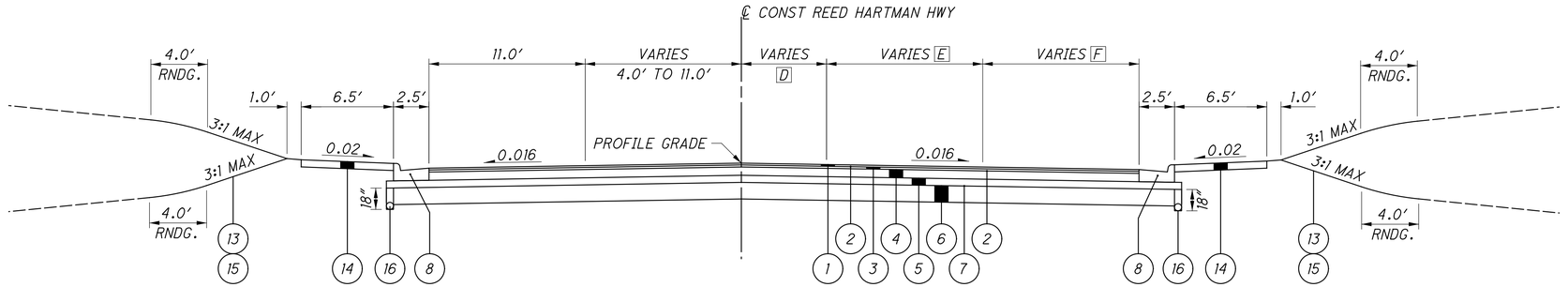
B 0.0′ TO 17.91′, STA 730+36.40 TO STA 730+94.05
17.91′ TO 9.42′ , STA 730+94.05 TO STA 731+68.44

C 32.17′ TO 2.17′, STA 730+36.22 TO STA 731+09.78
2.17′ TO 2.92′, STA 731+09.78 TO STA 731+68.44



NORMAL SECTION - REED HARTMAN HWY

STA 730+36.40 TO STA 731+68.44



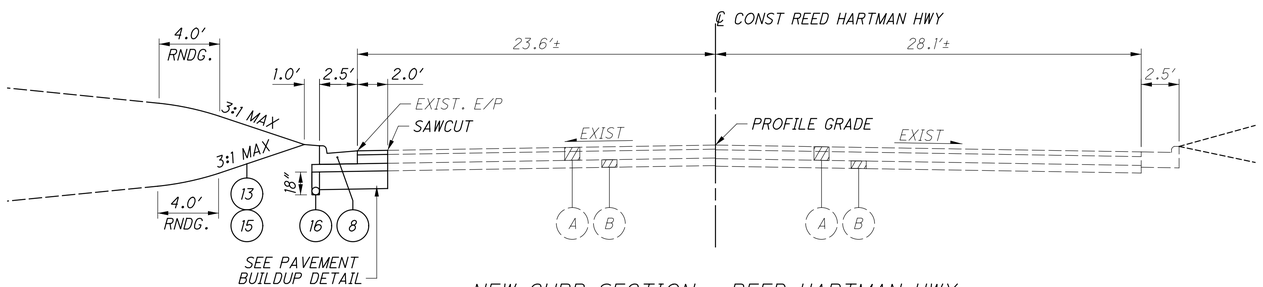
NORMAL SECTION - REED HARTMAN HWY

STA 731+68.44 TO STA 734+10.00

D 13.75′ TO 2.0′, STA 731+68.44 TO STA 734+10.00

E 13.58′ TO 12.17′, STA 731+68.44 TO STA 732+98.82
12.17′ TO 14.0′, STA 732+98.82 TO STA 734+10.00

F 13.58′ TO 12.17′, STA 731+68.44 TO STA 733+18.13
12.17′ TO 13.5′, STA 733+18.13 TO STA 734+10.00



NEW CURB SECTION - REED HARTMAN HWY

STA 734+10.00 TO STA 735+05.91

FOR LEGEND SEE SHEET 10
FOR WALL DETAILS SEE SHEETS 328 - 335

CALCULATED LZS
CHECKED JS

TYPICAL SECTIONS

HAM-PLAINFIELD RD
ROUNDABOUTS

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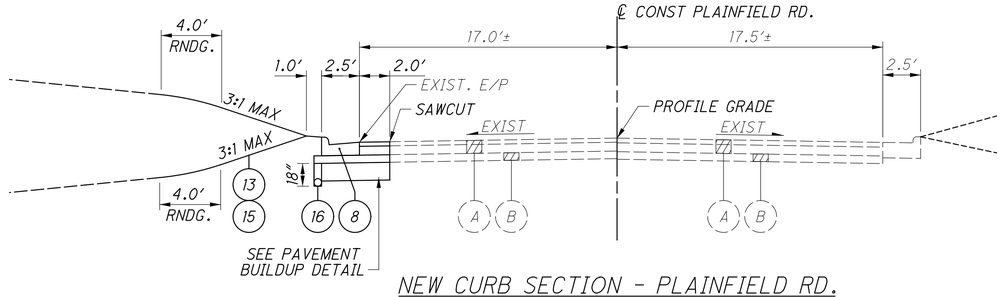
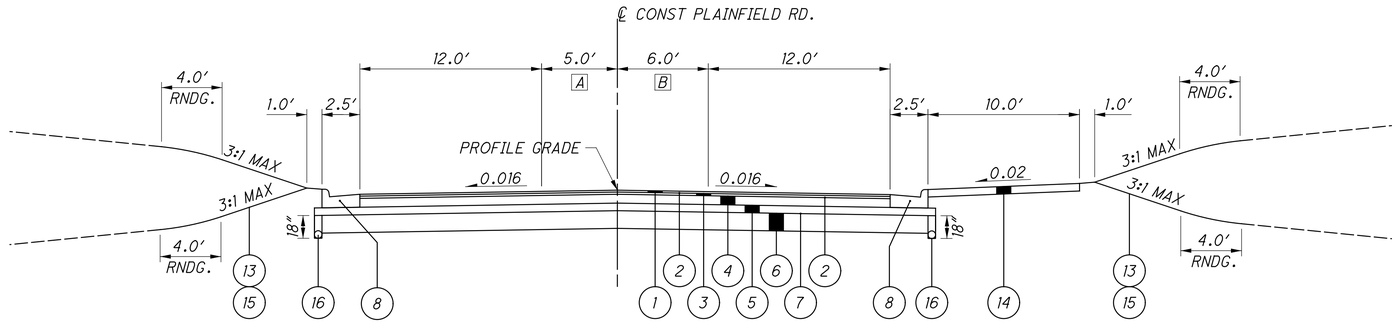


NEW CURB SECTION - PLAINFIELD RD.

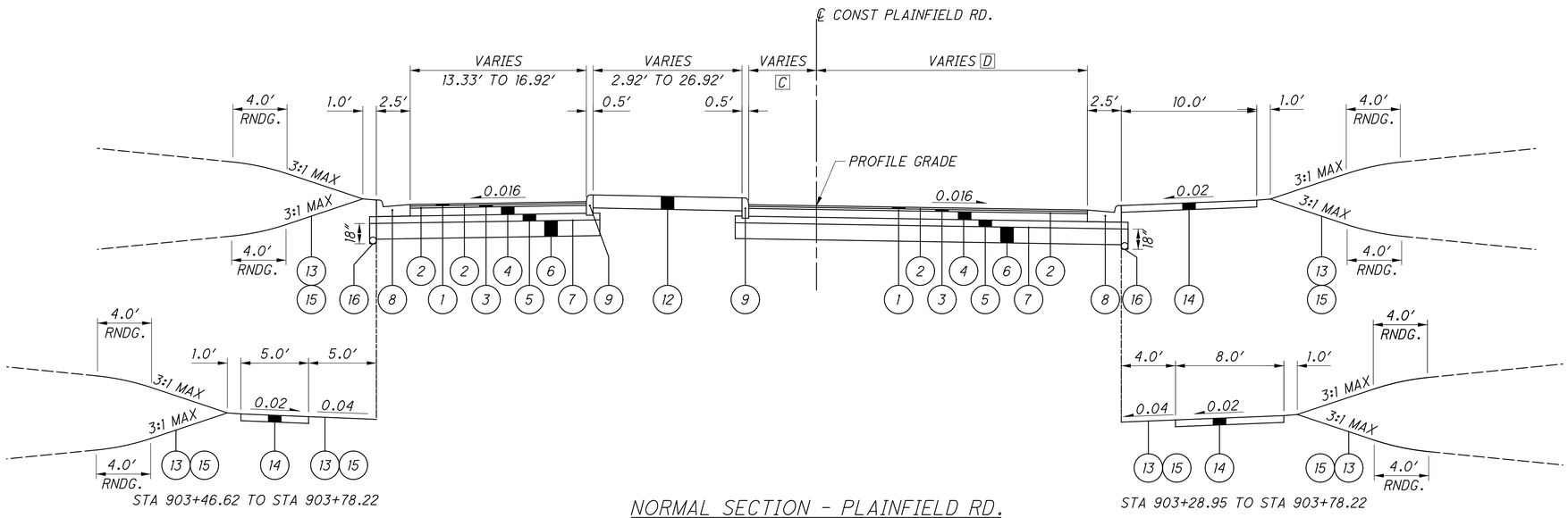
STA 900+00.00 TO STA 901+35.00



NORMAL SECTION - PLAINFIELD RD.

STA 901+35.03 TO STA 902+71.14

A 5.0′ TO 9.58′, STA 902+05.86 TO STA 902+71.14
B 6.0′ TO 8.33′, STA 901+93.85 TO STA 902+71.14



STA 903+46.62 TO STA 903+78.22

NORMAL SECTION - PLAINFIELD RD.

STA 902+71.14 TO STA 903+78.22

SEE ROUNDABOUT DETAILS - STA. 903+78.22 TO STA. 904+57.73

STA 903+28.95 TO STA 903+78.22

C 4.67′ TO 7.0′, STA 902+71.14 TO STA 903+43.36
7.0′ TO 2.0′, STA 903+43.36 TO STA 903+78.22
D 20.35′ TO 18.22′, STA 902+71.14 TO STA 903+31.31
18.22′ TO 28.0′, STA 903+31.31 TO STA 903+78.22

FOR LEGEND SEE SHEET 10

CALCULATED LZS
CHECKED JS

TYPICAL SECTIONS

HAM-PLAINFIELD RD ROUNDABOUTS

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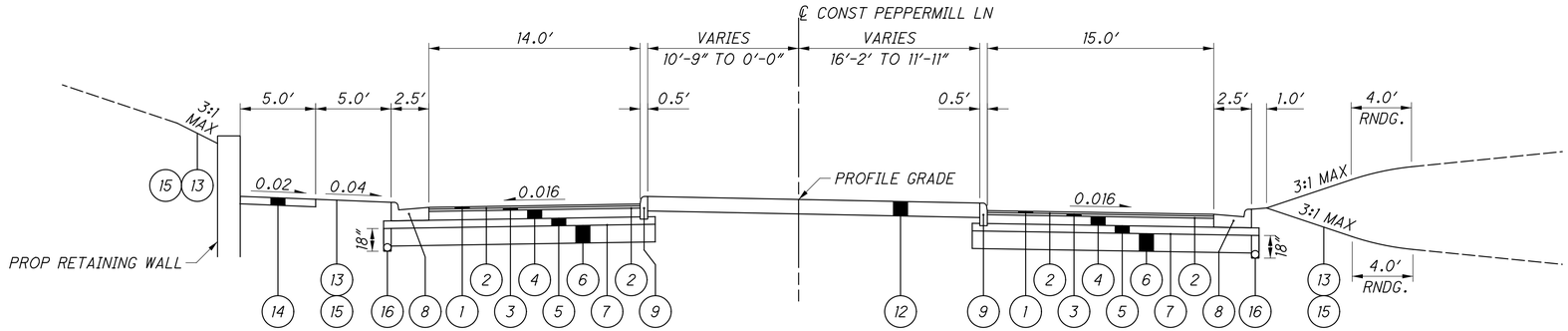
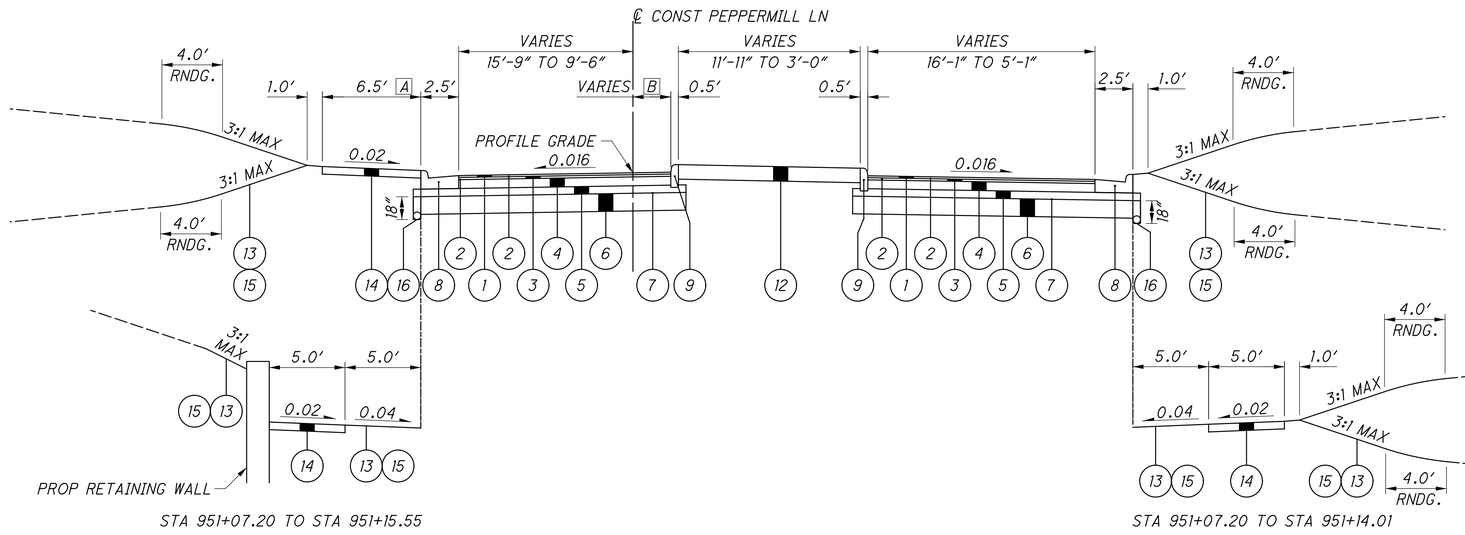


NORMAL SECTION - PEPPERMILL LN

STA 950+83.55 TO STA 951+07.20

SEE ROUNDABOUT DETAILS - STA. 950+00.00 TO STA. 950+83.55



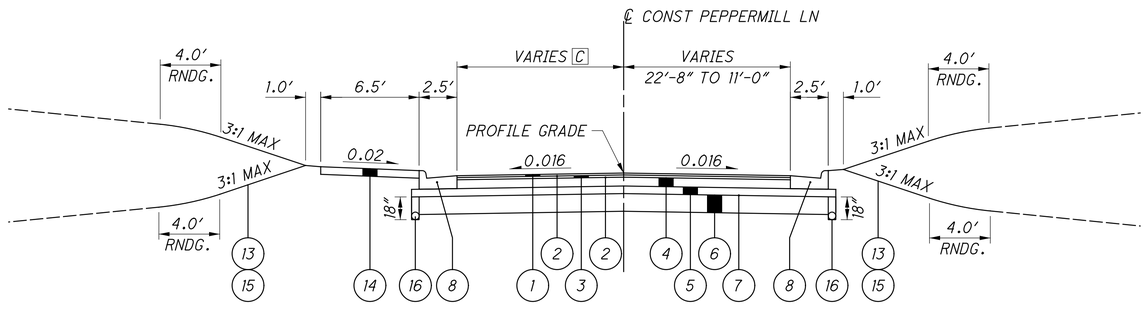
STA 951+07.20 TO STA 951+15.55

STA 951+07.20 TO STA 951+14.01

NORMAL SECTION - PEPPERMILL LN

STA 951+07.20 TO STA 951+28.35

A 10′-0″ TO 6′-6″, STA 951+19.07 TO 951+32.47
B 0′-0″ TO 4′-10″



NORMAL SECTION - PEPPERMILL LN

STA 951+28.35 TO STA 952+88.07

C 9′-7″ TO 7′-11, STA 951+28.35 TO STA 951+46.04
7′-11″ TO 12′-0″, STA 951+46.04 TO STA 951+88.07

FOR LEGEND SEE SHEET 10
FOR WALL DETAILS SEE SHEETS 328 - 335

CALCULATED LZS
CHECKED JS

TYPICAL SECTIONS

HAM-PLAINFIELD RD
ROUNDABOUTS

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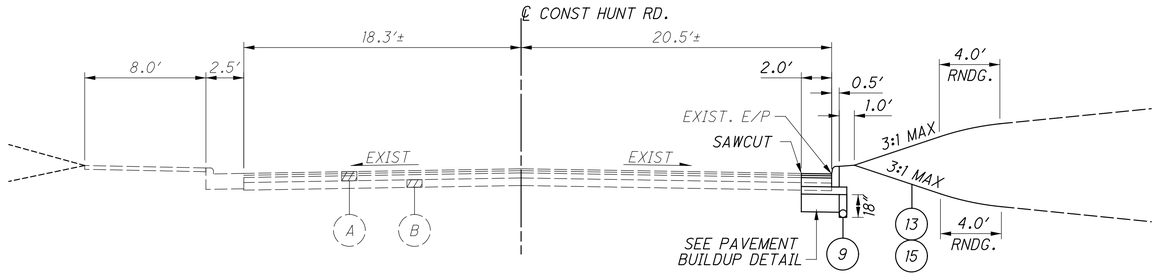
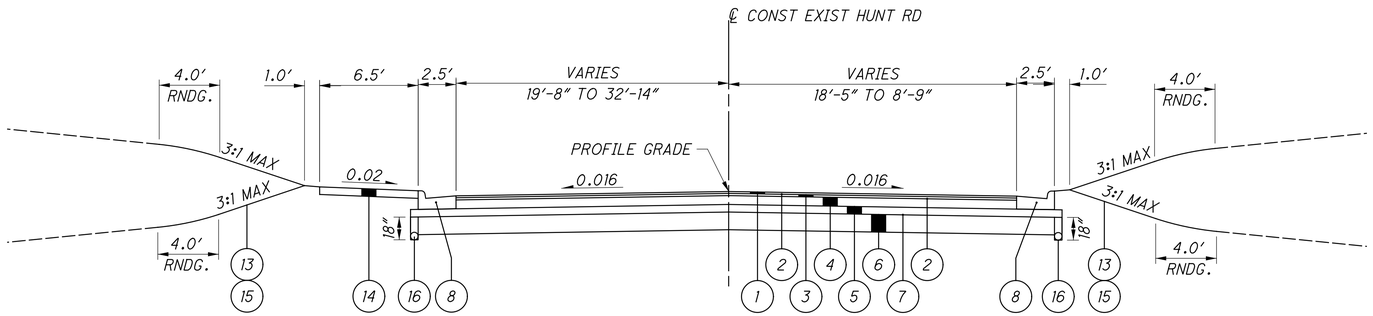


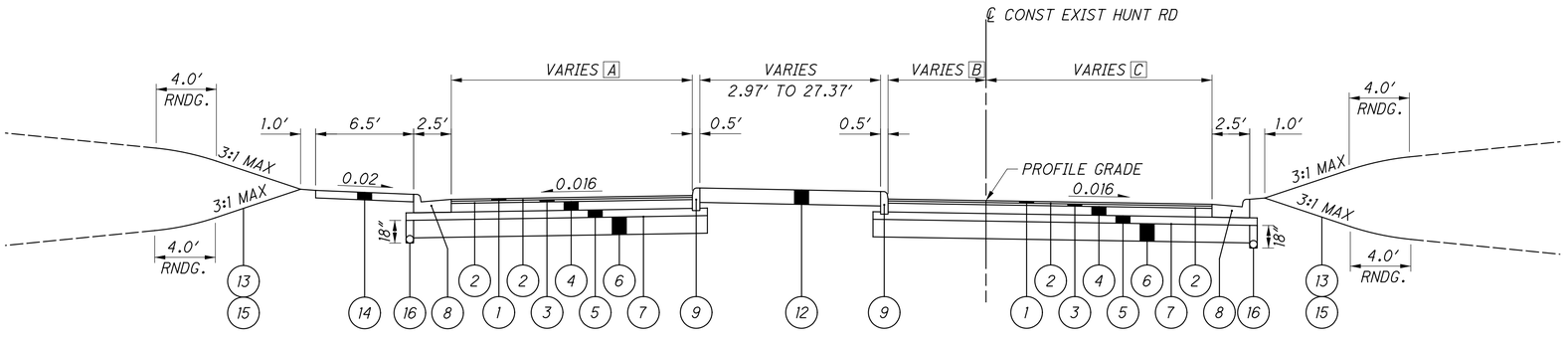
NEW CURB SECTION - EXISTING HUNT RD.

STA. 797+56.30 TO STA. 798+74.40



NORMAL SECTION - EXIST HUNT RD

STA 798+74.40 TO STA 800+28.42



NORMAL SECTION - EXIST HUNT RD

STA 800+28.42 TO STA 800+84.94

SEE ROUNDABOUT DETAILS - STA. 800+84.94 TO STA. 802+01.41

A 29.60' TO 23.93, STA 800+28.42 TO STA 800+58.72
23.93' TO 25.46', STA 800+58.72 TO STA 800+84.94

B 3.20' TO 6.03', STA 800+28.42 TO STA 800+56.22
6.03' TO 1.00', STA 800+56.22 TO STA 800+84.94

C 10.78' TO 9.25', STA 800+28.42 TO STA 800+56.22
9.25' TO 17.01', STA 800+56.22 TO STA 800+84.94

FOR LEGEND SEE SHEET 10

CALCULATED LZS
CHECKED JS

TYPICAL SECTIONS

HAM-PLAINFIELD RD
ROUNDABOUTS

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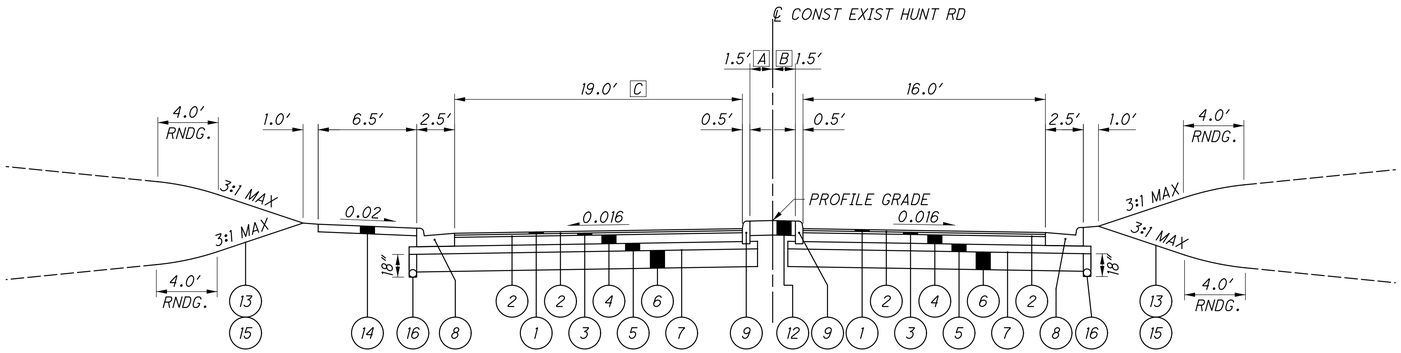
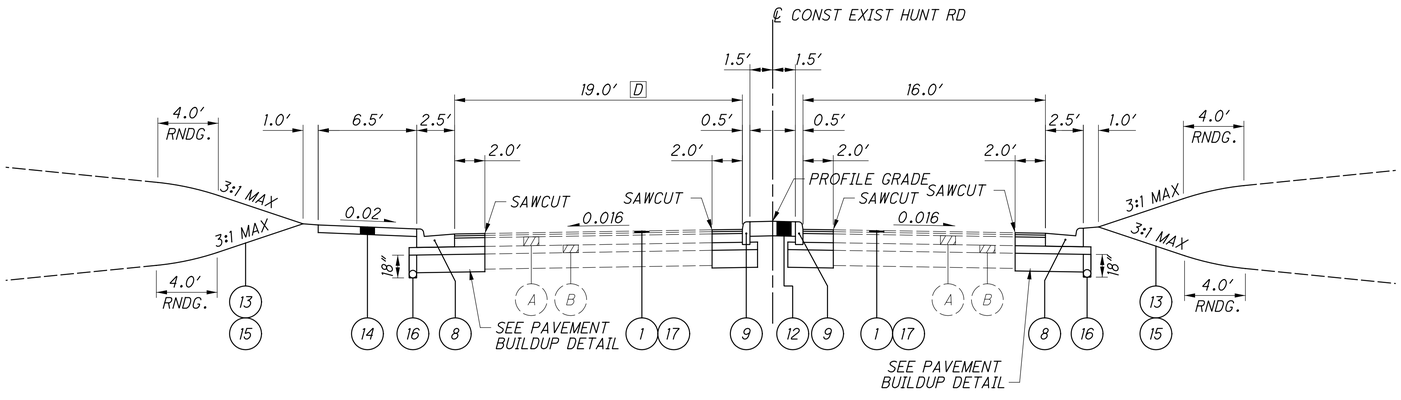


NORMAL SECTION - EXIST HUNT RD

STA 802+01.41 TO STA 803+25.00
STA 807+25.00 TO STA 807+67.73

A 21′-3″ TO 1′-6″, STA 802+01.41 TO STA 802+79.57
B 6′-1″ TO 1′-6″, STA 802+01.41 TO STA 802+50.44
C 23′-0″, STA 807+25.00 TO 807+67.73



RESURFACING SECTION - EXIST HUNT RD

STA 803+25.00 TO STA 807+25.00

D 19′-0″ TO 16′-0″, STA 804+19.73 TO STA 804+86.25
16′-0″ TO 33′-9″, STA 804+86.25 TO STA 805+01.31
33′-9″ TO 23′-0″, STA 805+01.31 TO STA 805+28.84
23′-0″, STA 805+28.84 TO STA 807+25.00

FOR LEGEND SEE SHEET 10
FOR PAVEMENT BUILDUP DETAIL SEE SHEET 15

CALCULATED LZS
CHECKED JS

TYPICAL SECTIONS

HAM-PLAINFIELD RD ROUNDABOUTS

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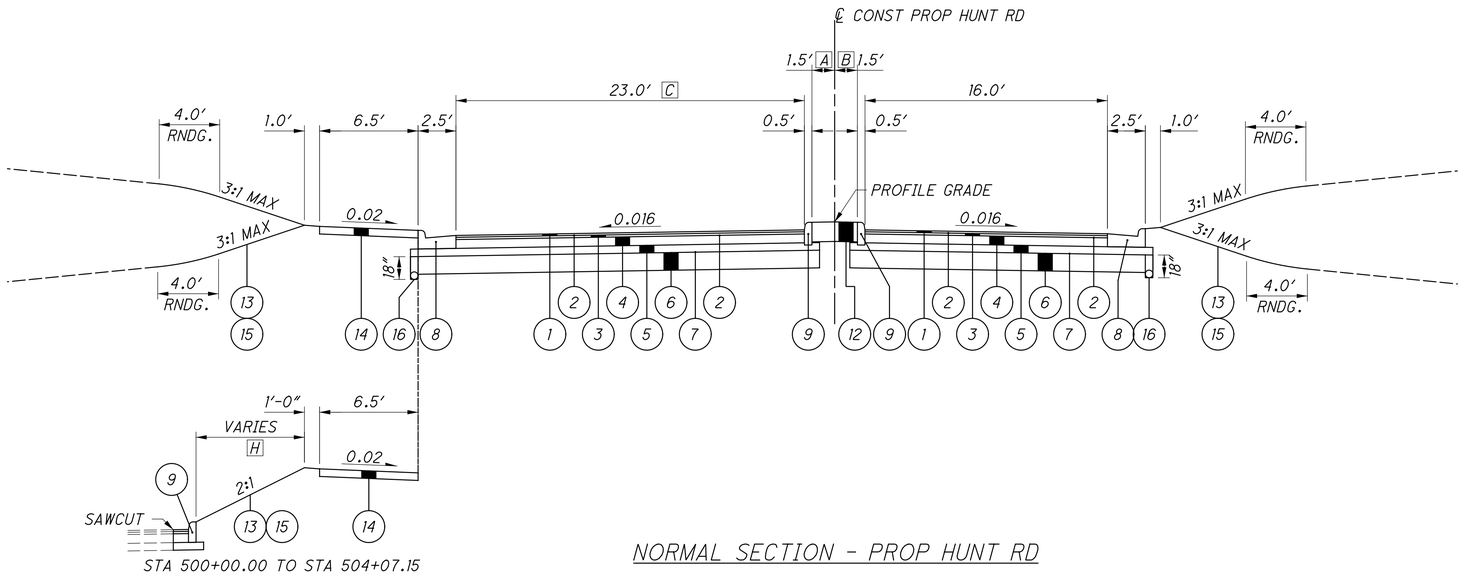


STA 500+00.00 TO STA 504+07.15

NORMAL SECTION - PROP HUNT RD

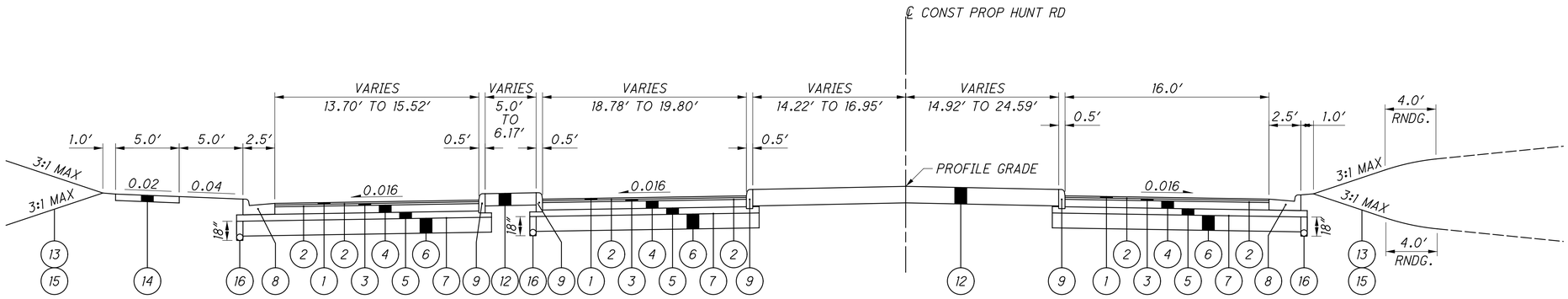
STA 500+00.00 TO STA 505+21.59

A 1′-6″ TO 14′-1″, STA 503+86.75 TO STA 505+21.59

B 1′-6″ TO 15′-1″, STA 504+31.53 TO STA 505+21.59

C 23′-0″ TO 39′-2″, STA 503+64.58 TO STA 505+21.59

D 10′-5″ TO 9′-9″, STA 500+00.00 TO STA 500+50.00
9′-9″ TO 8′-5″, STA 500+50.00 TO STA 501+01.39
8′-5″ TO 6′-2″, STA 501+01.39 TO STA 501+50.00
6′-2″ TO 7′-3″, STA 501+50.00 TO STA 503+00.00
7′-3″ TO 4′-4″, STA 503+00.00 TO STA 503+50.00
4′-4″ TO 3′-10″, STA 503+50.00 TO STA 503+91.48
21′-6″ TO 15′-3″, STA 503+91.48 TO STA 504+07.15



NORMAL SECTION - PROP HUNT RD

STA 505+21.59 TO STA 505+48.72

SEE ROUNDABOUT DETAILS - STA. 505+48.72 TO STA. 506+26.22

FOR LEGEND SEE SHEET 10

CALCULATED LZS CHECKED JS

TYPICAL SECTIONS

HAM-PLAINFIELD RD ROUNDABOUTS

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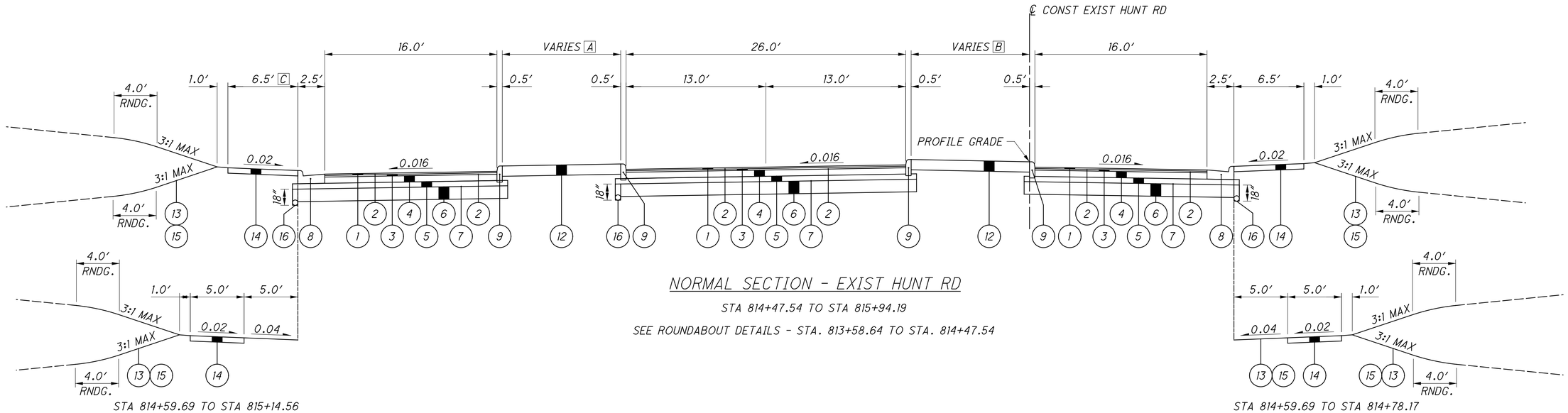
[A] 10'-0" TO 6'-6", STA 951+19.07 TO 951+32.47
[B] 0'-0" TO 4'-10"
[C] 10'-0" TO 6'-6", STA 815+14.56 TO STA 815+26.73



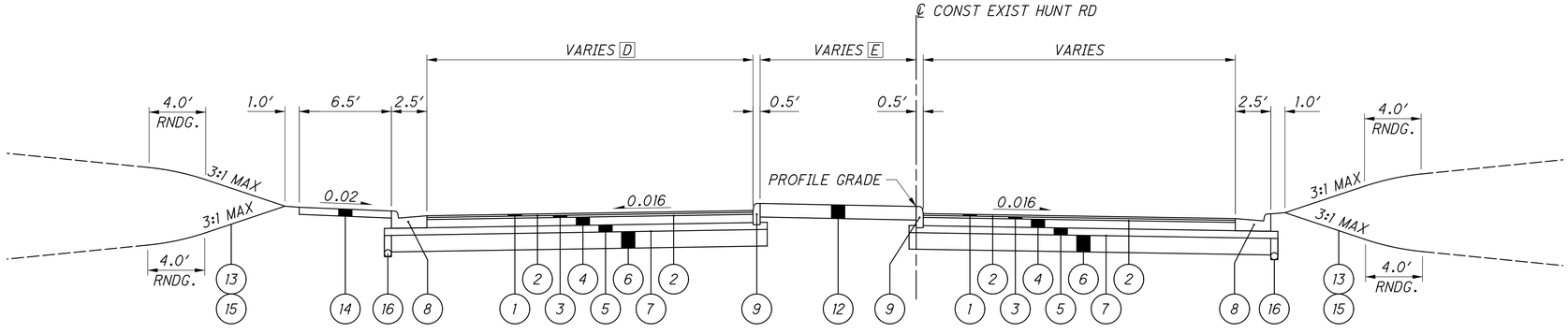
NORMAL SECTION - EXIST HUNT RD

STA 814+47.54 TO STA 815+94.19

SEE ROUNDABOUT DETAILS - STA. 813+58.64 TO STA. 814+47.54

STA 814+59.69 TO STA 815+14.56

STA 814+59.69 TO STA 814+78.17



NORMAL SECTION - EXIST HUNT RD

STA 815+94.19 TO STA 817+29.45

[D] 43'-2" TO 24'-11, STA 815+94.19 TO STA 816+86.43
24'-11" TO 24'-4", STA 816+86.43 TO STA 817+29.45

[E] 4'-10" TO 7'-2", STA 815+94.19 TO STA 816+86.38
7'-2" TO 5'-2, STA 816+86.38 TO STA 817+14.00
5'-2" TO 3'-0", STA 817+14.00 TO STA 817+29.45

FOR LEGEND SEE SHEET 10

CALCULATED LZS
CHECKED JS

TYPICAL SECTIONS

HAM-PLAINFIELD RD
ROUNDABOUTS

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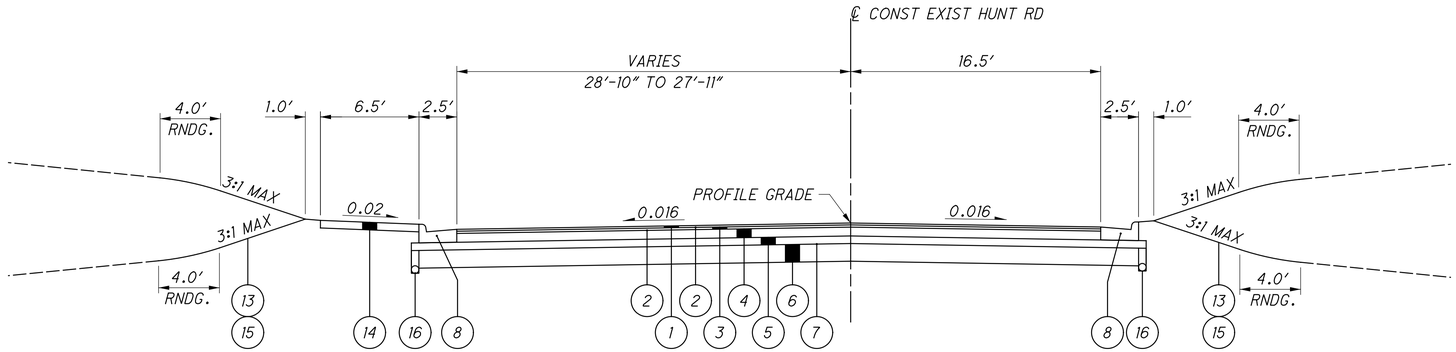
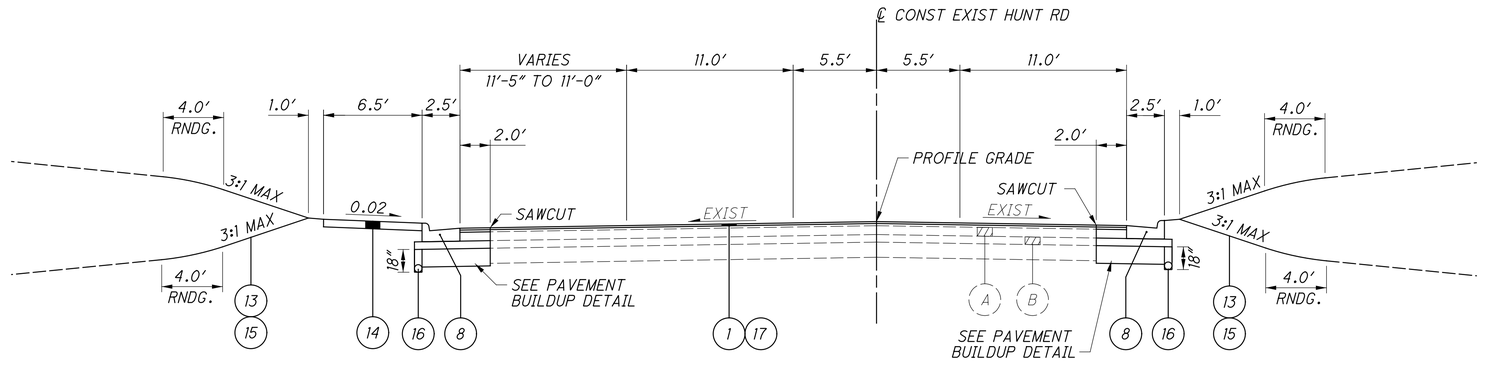


NORMAL SECTION - EXIST HUNT RD

STA 817+29.45 TO STA 817+50.00



RESURFACING SECTION - EXIST HUNT RD

STA 817+50.00 TO STA 818+50.00

FOR LEGEND SEE SHEET 10
FOR PAVEMENT BUILDUP DETAIL SEE SHEET 15

CALCULATED LZS
CHECKED JS

TYPICAL SECTIONS

HAM-PLAINFIELD RD
ROUNDABOUTS

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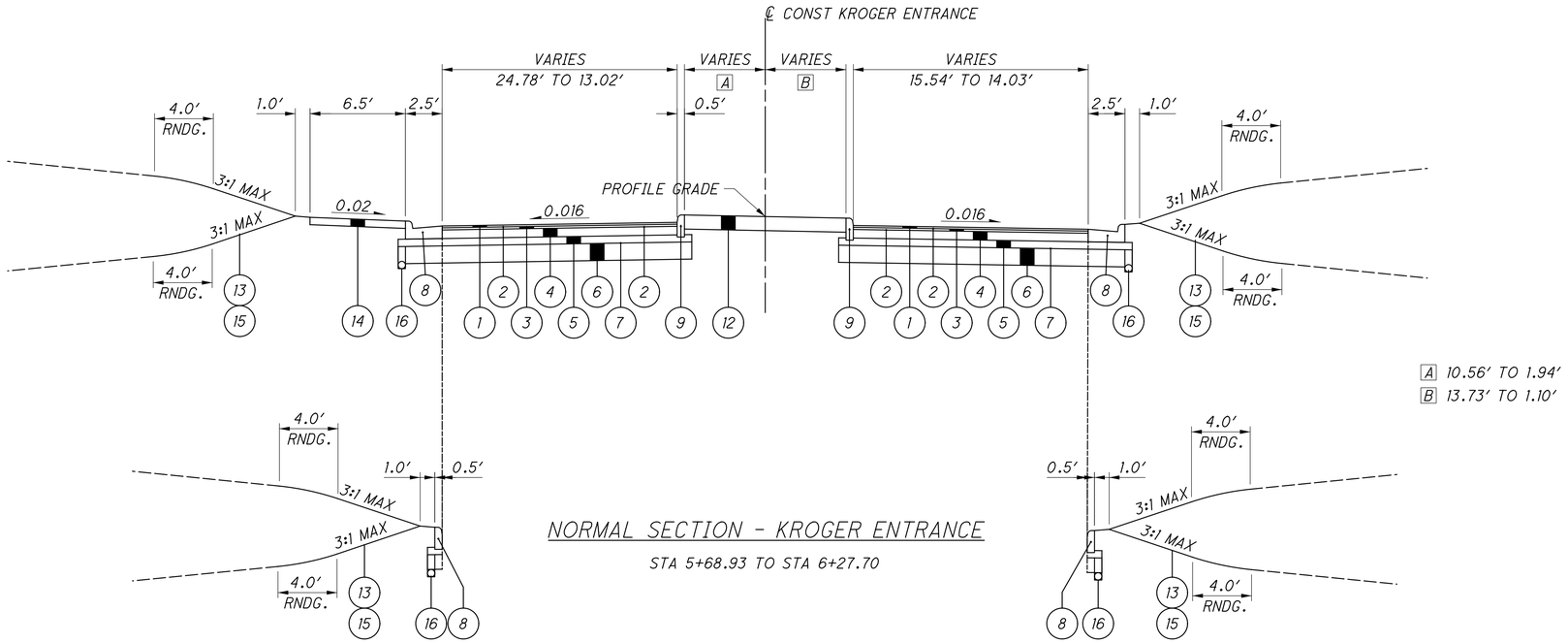
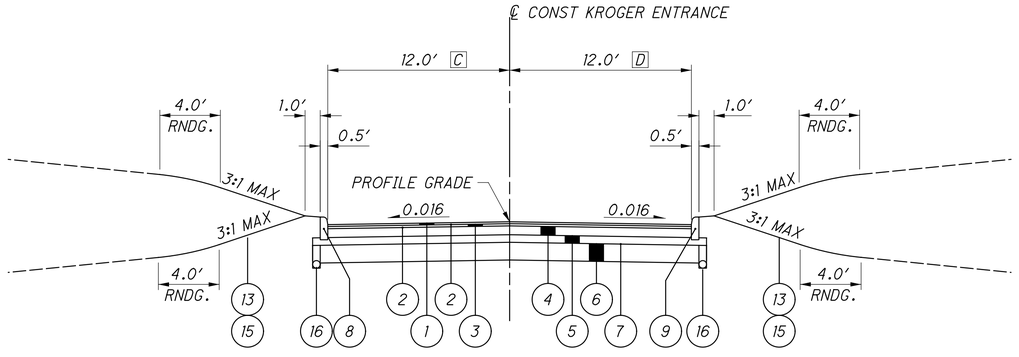


NORMAL SECTION - KROGER ENTRANCE

STA 5+68.93 TO STA 6+27.70

STA 6+00.36 TO STA 6+07.80

STA 5+97.85 TO STA 6+07.80



NORMAL SECTION - KROGER ENTRANCE

STA 6+27.70 TO STA 6+59.96

C 15.30′ TO 13.59′, STA 6+27.70 TO STA 6+59.96
D 15.57′ TO 12.32′, STA 6+27.70 TO STA 6+59.96

FOR LEGEND SEE SHEET 10

CALCULATED LZS
CHECKED JS

TYPICAL SECTIONS

HAM-PLAINFIELD RD
ROUNDABOUTS

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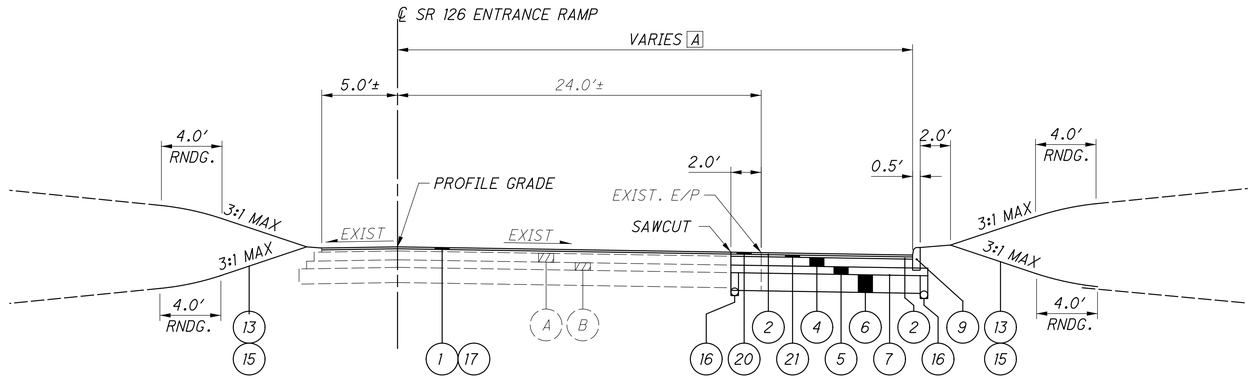
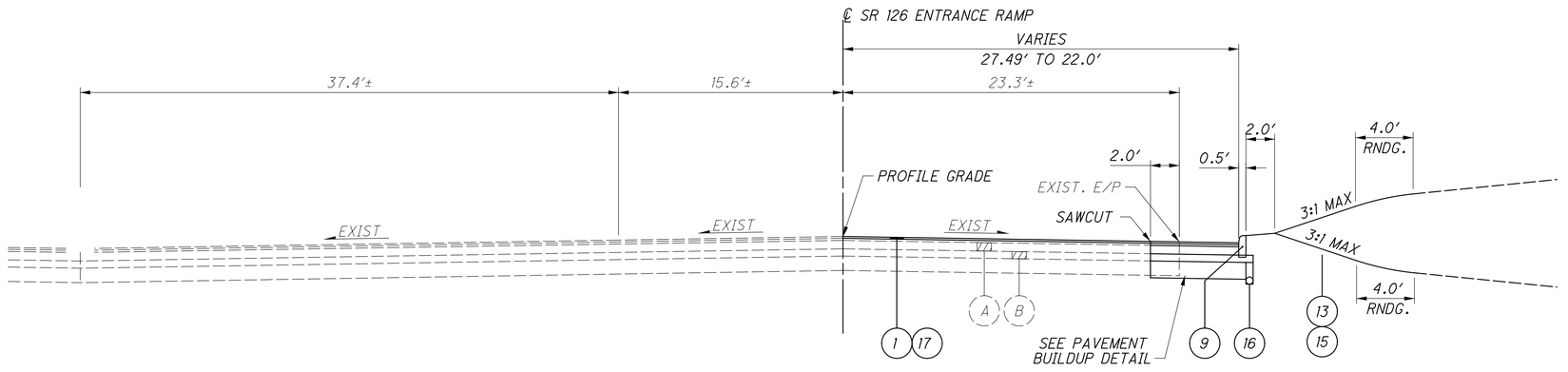


RESURFACING SECTION - SR 126 ENTRANCE RAMP

STA 600+56.92 TO STA 606+86.95

A 34.0', STA 600+56.92 TO STA 603+59.90
34.0' TO 27.49', STA 603+59.90 TO STA 606+86.95



RESURFACING SECTION - SR 126 ENTRANCE RAMP

STA 606+86.95 TO STA 609+59.90

FOR LEGEND SEE SHEET 10
FOR PAVEMENT BUILDUP DETAIL SEE SHEET 15

CALCULATED LZS
CHECKED JS

TYPICAL SECTIONS

HAM-PLAINFIELD RD
ROUNDABOUTS

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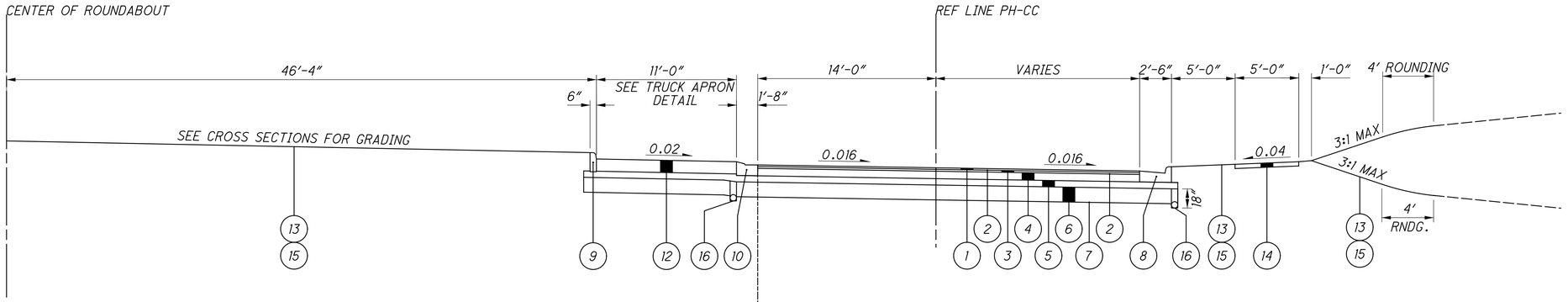
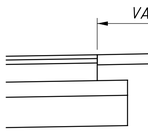
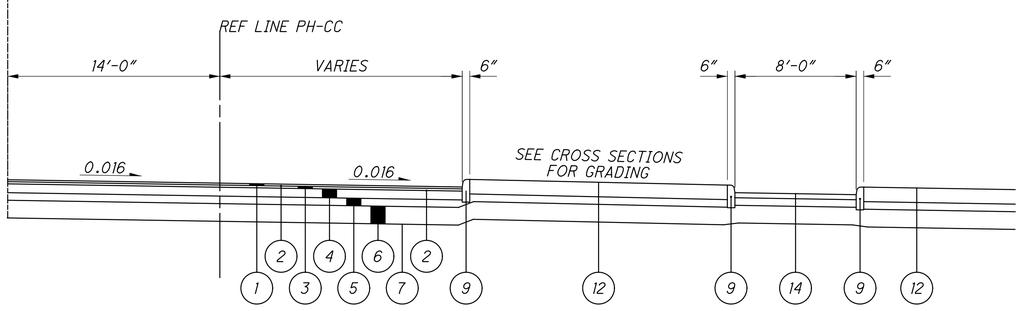


ROUNDABOUT SECTION A-A



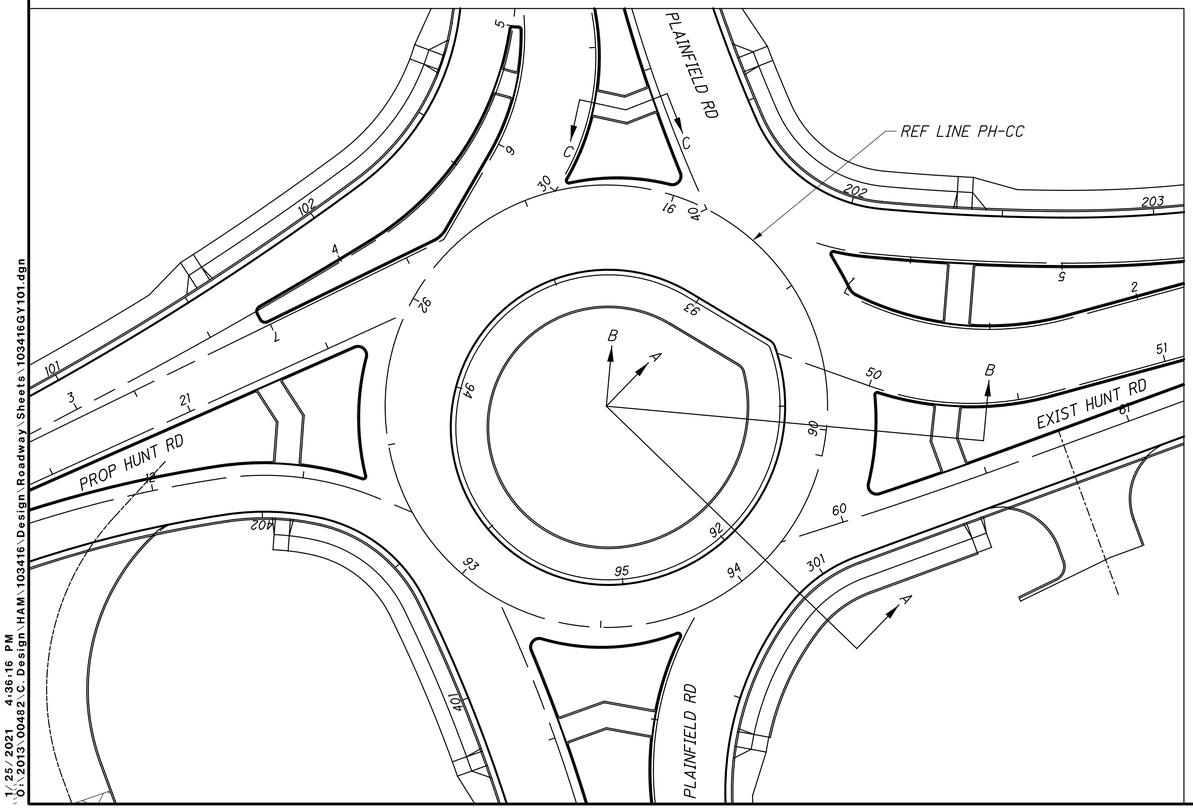
SECTION C-C

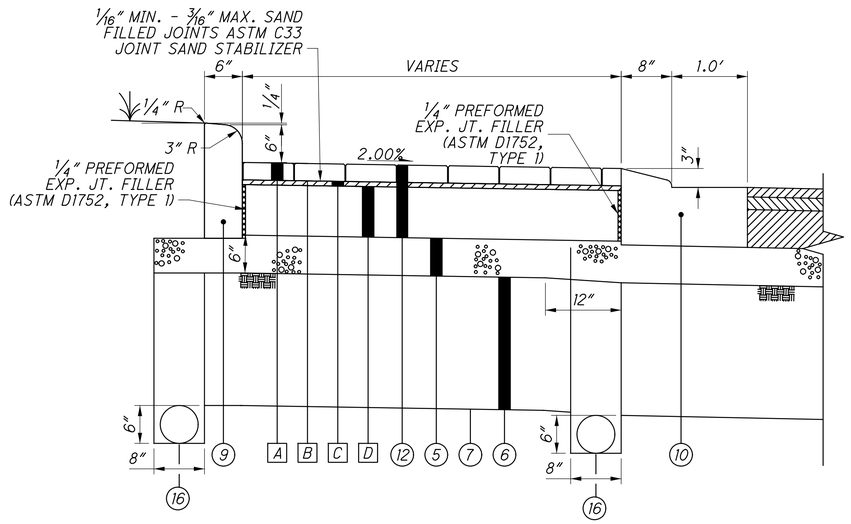


ROUNDABOUT SECTION B-B

FOR LEGEND SEE SHEET 10

FOR ROUNDABOUT DETAIL SEE SHEET 228
FOR SPLITTER ISLAND DETAILS SEE SHEET 231-233





TRUCK APRON PAVEMENT DETAIL WITH BRICK PAVERS

NOT TO SCALE

A 8" x 4" x 2 3/4" BRICK PAVERS (SEE GENERAL NOTES FOR DETAILS)
B NEOPRENE - MODIFIED ASPHALT ADHESIVE
C 3/4" BITUMINOUS ASPHALT SETTING BED (PG64-22)
D ITEM 452 - 8" NON-REINFORCED CONCRETE PAVEMENT

CALCULATED LZS
CHECKED JS

TYPICAL SECTIONS - ROUNDABOUT
PLAINFIELD RD & HUNT RD

HAM-PLAINFIELD RD
ROUNDABOUTS

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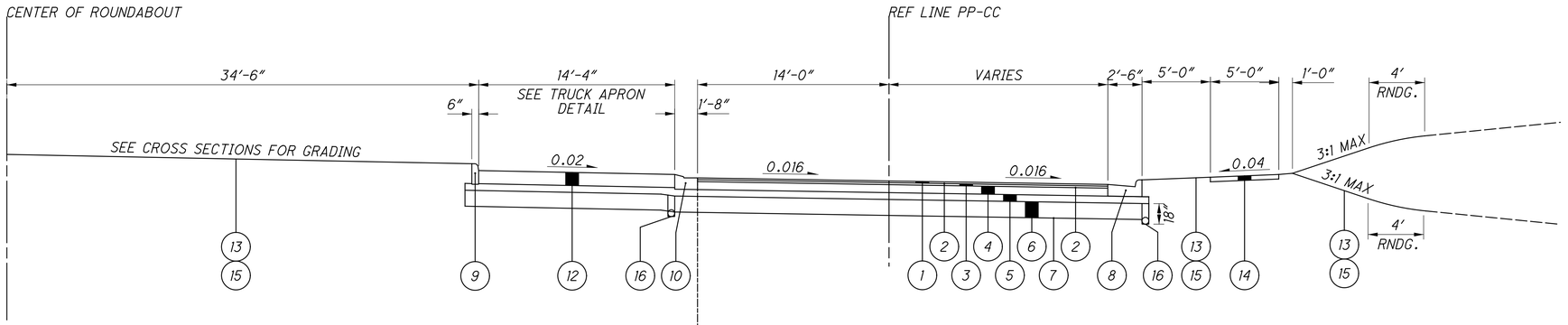
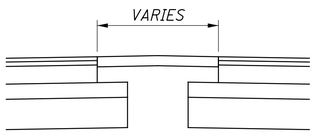
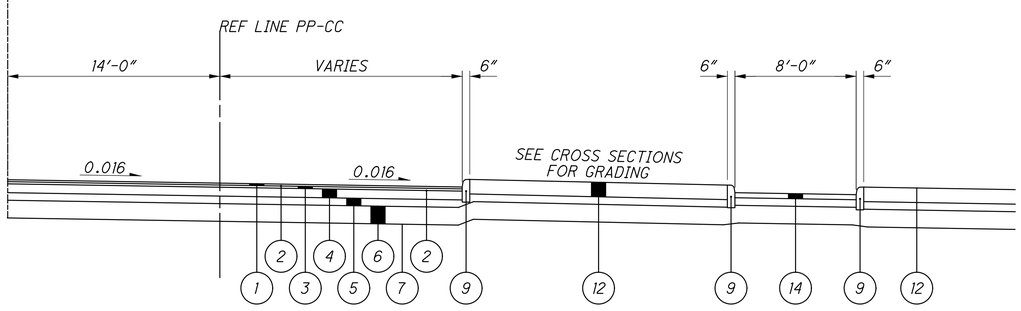


ROUNDABOUT SECTION A-A



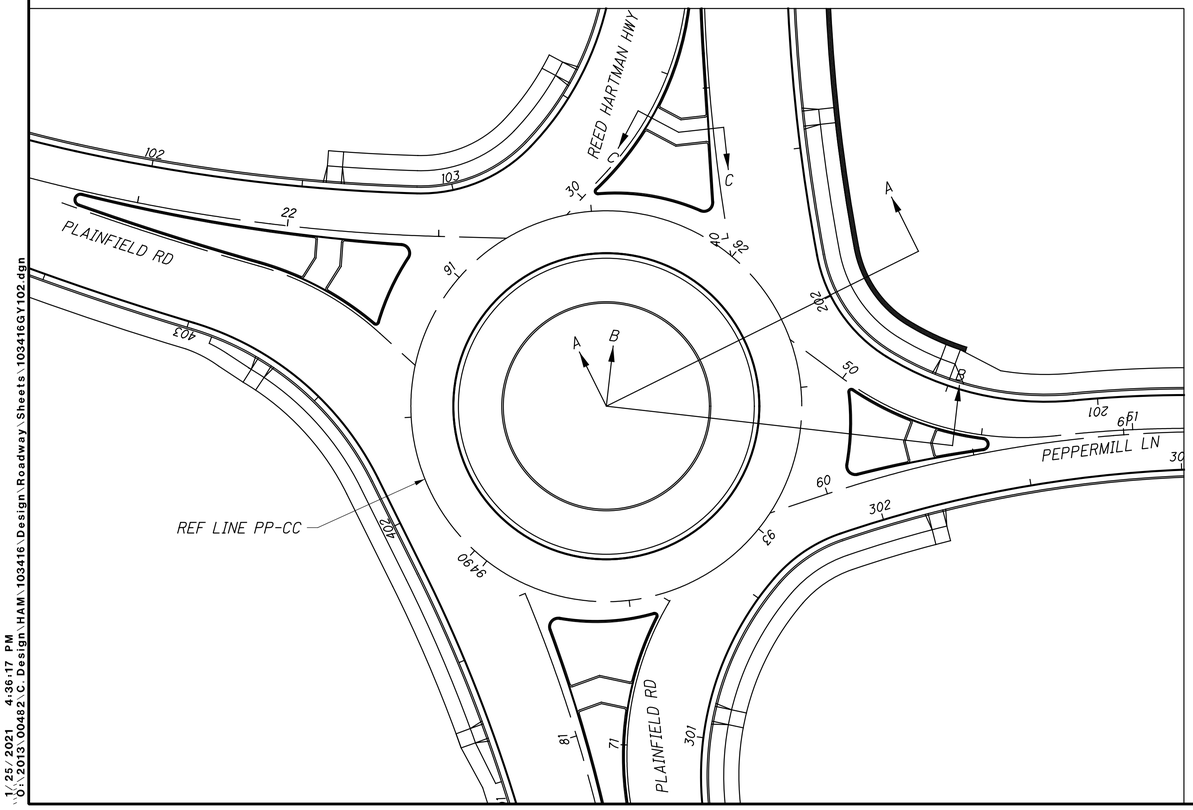
SECTION C-C

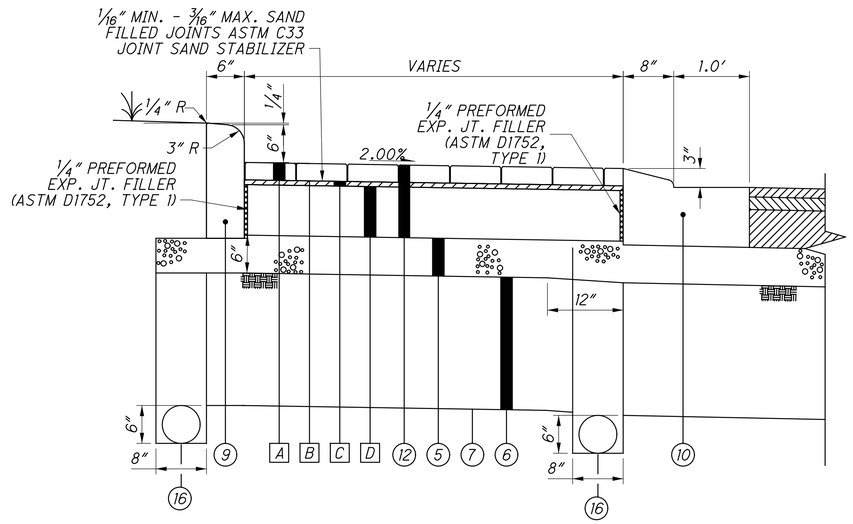


ROUNDABOUT SECTION B-B

FOR LEGEND SEE SHEET 10

FOR ROUNDABOUT DETAIL SEE SHEET 229
FOR SPLITTER ISLAND DETAILS SEE SHEET 234-235





TRUCK APRON PAVEMENT DETAIL WITH BRICK PAVERS

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C 3/4" BITUMINOUS ASPHALT SETTING BED (PG64-22)
D ITEM 452 - 8" NON-REINFORCED CONCRETE PAVEMENT

CALCULATED LZS
CHECKED JS

TYPICAL SECTIONS - ROUNDABOUT
PLAINFIELD RD & PEPPERMILL LN

HAM-PLAINFIELD RD
ROUNDABOUTS

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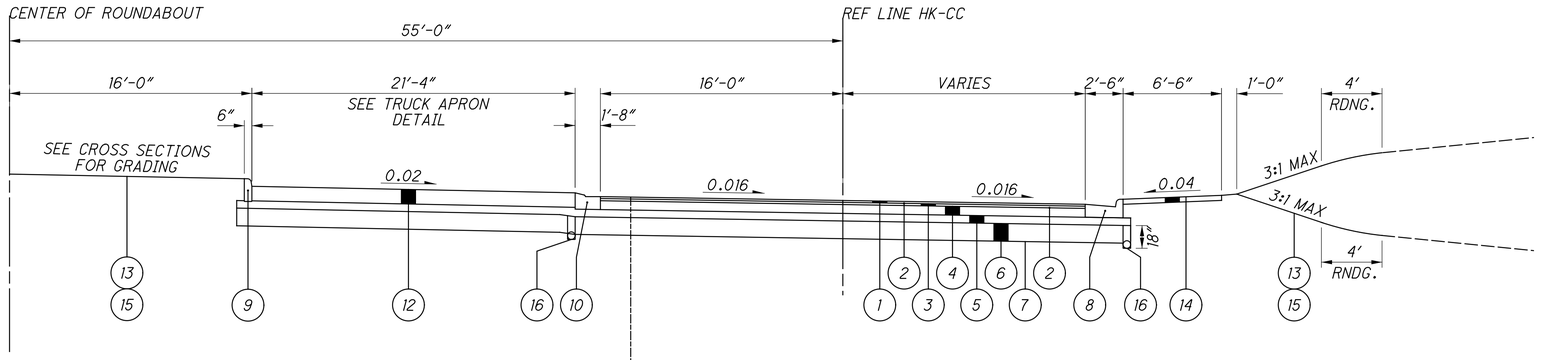
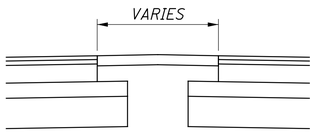
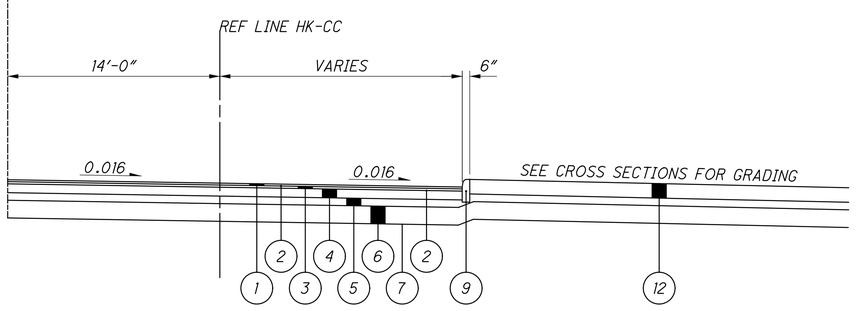


ROUNDABOUT SECTION A-A



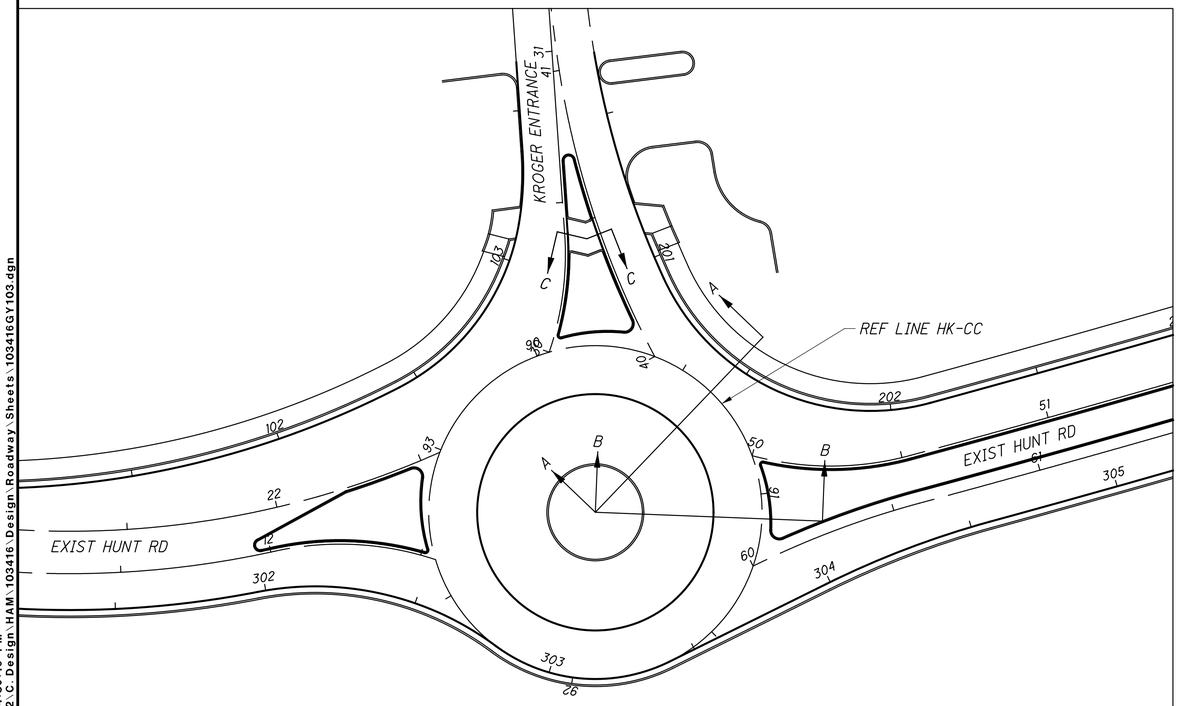
SECTION C-C

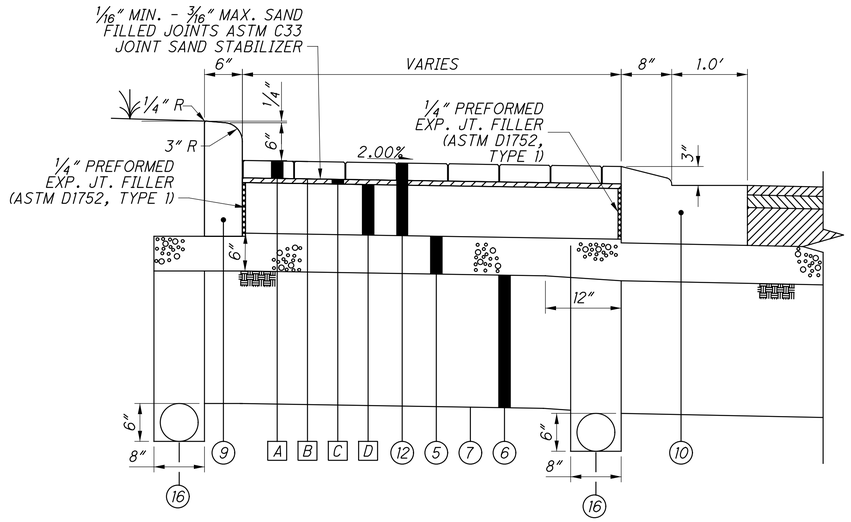


ROUNDABOUT SECTION B-B

FOR LEGEND SEE SHEET 10

FOR ROUNDABOUT DETAIL SEE SHEET 230
FOR SPLITTER ISLAND DETAILS SEE SHEET 236





TRUCK APRON PAVEMENT DETAIL WITH BRICK PAVERS

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D ITEM 452 - 8" NON-REINFORCED CONCRETE PAVEMENT

CALCULATED LZS
CHECKED JS

TYPICAL SECTIONS - ROUNDABOUT
HUNT RD & KROGER ENTRANCE

HAM-PLAINFIELD RD
ROUNDABOUTS

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UTILITIES

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

CABLE/INTERNET
CINCINNATI BELL
221 E. 4TH STREET
BLDG 121-900
CINCINNATI, OHIO 45201
BRECK COWAN
513-565-7043

ELECTRIC
DUKE ENERGY
139 E. 4TH STREET
ROOM 467A
CINCINNATI, OHIO 45202
SHANE ERHART

GAS
DUKE ENERGY
139 E. 4TH STREET
ROOM 467A
CINCINNATI, OHIO 45202
BRAD STEINMETZ
513-287-2366

CABLE/INTERNET
TIME WARNER CABLE
11252 CORNELL PARK DRIVE
CINCINNATI, OHIO 45242
KENT RIEGER
513-386-5499

WATER
GREATER CINCINNATI WATER WORKS
4747 SPRING GROVE AVE
CINCINNATI, OHIO 45232
MICHAEL COSSINS
513-557-5799

SEWER
METROPOLITAN SEWER DISTRICT
1600 GEST STREET
CINCINNATI, OHIO 45204
ROB FRANKLIN
513-557-7188

CITY OF BLUE ASH
4343 COOPER ROAD
BLUE ASH, OHIO 45242
GORDON PERRY
513-745-8536

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

ROUNDING

THE ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS APPLIES TO ALL CROSS-SECTIONS EVEN THOUGH OTHERWISE SHOWN.

CONSTRUCTION NOISE

ACTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, DO NOT OPERATE POWER-OPERATED CONSTRUCTION-TYPE DEVICES BETWEEN THE HOURS OF 9:00 PM AND 7:00 AM. IN ADDITION, DO NOT OPERATE AT ANY TIME ANY DEVICE IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARILY AND NECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT.

SURVEYING PARAMETERS

USE THE FOLLOWING VERTICAL POSITIONING AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD 88
GEOID: 12B

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD 83 (2011)
ELLIPSOID: GRS 80
MAP PROJECTION: LAMBERT CONFORMAL CONIC
COORDINATE SYSTEM: OHIO SOUTH STATE PLANE

COMBINED SCALE FACTOR: 0.99990508

UNITS ARE IN U.S. SURVEY FEET. USE THE FOLLOWING CONVERSION FACTOR: 1 METER = 3.28083333 U.S. SURVEY FEET.

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

PROTECTION OF RIGHT-OF-WAY LANDSCAPING

PRIOR TO BEGINNING WORK, THE CONTRACTOR, THE PROJECT ENGINEER, AND A REPRESENTATIVE OF THE MAINTAINING AGENCY WILL REVIEW AND RECORD ALL LANDSCAPING ITEMS WITHIN THE RIGHT OF WAY (BOTH WITHIN AND OUTSIDE THE CONSTRUCTION LIMITS) A RECORD OF THIS REVIEW WILL BE KEPT IN THE PROJECT ENGINEER'S FILES. PRIOR TO FINAL ACCEPTANCE, A FINAL REVIEW OF LANDSCAPING ITEMS WILL BE MADE.

CONSTRICT ALL ACTIVITIES, EQUIPMENT STORAGE, AND STAGING TO WITHIN THE CONSTRUCTION LIMITS. UNLESS OTHERWISE IDENTIFIED IN THE PLANS OR PROPOSAL.

SUBMIT A WRITTEN REQUEST TO THE PROJECT ENGINEER TO USE ANY AREA OUTSIDE THESE LIMITS. THE DOCUMENT SUBMITTED MUST CLEARLY IDENTIFY THE AREA AND EXPLAIN THE PROPOSED USE AND RESTORATION OF THE AREA.

ANY ITEMS DAMAGED BEYOND THE CONSTRUCTION LIMITS AS DEFINED ABOVE WILL BE REPLACED IN KIND OR AS APPROVED BY THE PROJECT ENGINEER.

CLEARING AND GRUBBING

REMOVE ALL TREES AND STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE CONSTRUCTION LIMITS UNDER THE LUMP SUM BID FOR ITEM 201, CLEARING AND GRUBBING. THE FOLLOWING IS AN APPROXIMATE ESTIMATE OF THE NUMBER OF TREES AND STUMPS TO BE REMOVED.

SIZES	NO. TREES	NO. STUMPS	TOTAL
18"	19	0	19
30"	3	0	3
48"	0	0	0
60"	0	0	0

POST CONSTRUCTION STORM WATER TREATMENT

THIS PLAN UTILIZES STRUCTURAL BEST MANAGEMENT PRACTICES (BMP'S) FOR POST CONSTRUCTION STORM WATER TREATMENT.

MANUFACTURED WATER QUALITY STRUCTURE

THIS PLAN UTILIZES MANUFACTURED WATER QUALITY STRUCTURES FOR WATER QUALITY TREATMENT. AREAS HAVE BEEN SHOWN IN THE PLANS FOR PLACEMENT OF AN OFF-LINE SYSTEM. PAYMENT FOR THESE DEVICES SHALL BE MADE AT THE CONTRACT UNIT PRICE FOR ITEM 895, MANUFACTURED WATER QUALITY STRUCTURE, TYPE 4.

CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEM.

PAVEMENT RESTORATION FOR DRAINAGE STRUCTURE INSTALLATIONS

THE FOLLOWING QUANTITY IS PROVIDED FOR PAVEMENT RESTORATION FOLLOWING INSTALLATION OF ITEM 604 DRAINAGE STRUCTURES.

ITEM 301 ASPHALT CONCRETE BASE, PG64-22 3 CU. YDS.

THE ABOVE QUANTITY IS BASED ON A 301 THICKNESS OF 7 INCHES AND A WIDTH OF TWO FEET AROUND THE PERIMETER OF THE DRAINAGE STRUCTURE.

PROVIDE ANY MATERIALS USED OUTSIDE THE LIMITS STATED ABOVE AT NO ADDITIONAL COST.

PAVEMENT RESTORATION FOR PIPE INSTALLATIONS AND/OR REMOVALS

THE FOLLOWING QUANTITY HAS BEEN PROVIDED FOR PAVEMENT RESTORATION FOLLOWING INSTALLATION AND/OR REMOVAL OF PIPES.

ITEM 301 ASPHALT CONCRETE BASE, PG64-22 5 CU. YDS.

THE ABOVE QUANTITY IS BASED ON A 301 THICKNESS OF 7 INCHES AND A PAVEMENT RESTORATION WIDTH THAT INCLUDES THE TRENCH WIDTH PLUS TWO FEET ON EACH SIDE OF THE TRENCH.

PROVIDE ANY MATERIALS USED OUTSIDE THE LIMITS STATED ABOVE AT NO ADDITIONAL COST.

EXISTING UNDERDRAINS

PROVIDE UNOBSTRUCTED OUTLETS FOR ALL EXISTING UNDERDRAINS ENCOUNTERED DURING CONSTRUCTION.

PROVIDE AN OUTLET PER STANDARD CONSTRUCTION DRAWING DM-1.1 FOR ALL UNDERDRAINS THAT OUTLET TO A SLOPE.

UNDERDRAINS THAT CAN BE CONNECTED TO THE NEW OR EXISTING UNDERDRAINS AT THE END OF THE PROJECT LIMITS AS WELL AS ALL NECESSARY BENDS OR BRANCHES REQUIRED FOR CONNECTION ARE INCLUDED IN THE BASIS OF PAYMENT FOR UNCLASSIFIED PIPE UNDERDRAINS.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

605 6" UNCLASSIFIED PIPE UNDERDRAINS 500 FT.

PART-WIDTH CONSTRUCTION

BECAUSE OF THE NECESSITY TO BUILD THIS PROJECT UNDER TRAFFIC AND TO CONSTRUCT THE FULL PAVEMENT WIDTH IN STAGES, EXERCISE CARE TO PREVENT THE CONSTRUCTION OF A BUTT JOINT IN THE BASE COURSES. LAP LONGITUDINAL JOINTS AS SHOWN ON STANDARD CONSTRUCTION DRAWING BP-3.1.

CALCULATED CML CHECKED JS

GENERAL NOTES

HAM-PLAINFIELD RD ROUNDABOUTS

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REVIEW OF DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE STATE, REPRESENTATIVES OF THE STATE AND THE CONTRACTOR, ALONG WITH LOCAL REPRESENTATIVES, SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCE SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION SHALL BE KEPT IN WRITING BY THE STATE.

ALL NEW CONDUITS, INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE STATE.

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEMS.

ITEM SPECIAL - BRICK PAVERS, AS PER PLAN

PAVERS - THE PAVERS SHALL BE REGIMENTAL FULL RANGE WITH A CHAMFERED EDGE AND SPACER LUGS, 8" x 4" x 2¾", MADE BY BELDON BRICK COMPANY, CANTON, OHIO, LAID IN A RUNNING BOND PATTERN.

ALTERNATE PAVERS - IF BELDEN BRICK PAVERS ARE UNAVAILABLE, THEN THE PAVERS SHALL BE ENGLISH EDGE FULL RANGE WITH BEVELS AND SPACER NIBS, 8" x 4" x 2¾", MADE BY PINE HALL BRICK, WINSTON-SALEM, NORTH CAROLINA, LAID IN A RUNING BOND PATTERN.

NEOPRENE-MODIFIED ASPHALT ADHESIVE - FURNISH NEOPRENE MODIFIED ASPHALT ADHESIVE THAT CONTAINS 2% GRADE WM1 NEOPRENE, OXIDIZED ASPHALT WITH A 150 DEGREE SOFTENING POINT (77 PENETRATION), AND 10% LONG-FIBERED INERT MATERIAL, AS SUPPLIED BT SEIDEL COMPANY, INC., NEWBURYPORT, MA, (617) 649-6740; HASTINGS PAVEMENT COMPANY, INC., LAKE SUCCESS, NY, (516) 379-3500; OR APPROVED EQUAL.

BITUMINOUS SETTING BED, ¾-INCH - FURNISH ASPHALT CEMENT CONFORMING TO ASTM D 3381, PG64-22. FINE AGGREGATE SHALL BE NATURAL SAND AND/OR STONE SAND COMPOSED OF HARD, DURABLE, UNCOATED PARTICLES, FREE FROM CLAY, SILT, ORGANIC MATERIAL, OR OTHER DELETERIOUS SUBSTANCES. ALL SAND SHALL BE UNIFORMLY GRADED AND PASS A NO. 4 SIEVE, MEETING THE REQUIREMENTS OF ASTM C 136. THE DRIED FINE AGGREGATE SHALL BE MIXED WITH HOT ASPHALT CEMENT AT THE PLANT AND HEATED TO APPROXIMATELY 300 DEGREES (F). APPROXIMATE MATERIAL PROPORTIONS SHALL BE 7% ASPHALT CEMENT AND 93% FINE AGGREGATE; OR 140 LBS ASPHALT TO 1,860 LBS FINE AGGREGATE PER TON.

SAND - ALL JOINTS SHALL BE FILLED WITH A POLYMERIC SAND. SAND SHALL BE ALLIANCE XXX GATOR SAND AND SLATE GREY IN COLOR OR AN APPROVED EQUAL.

EDGING - A BRICK/PAVER EDGING SHALL BE PROVIDED ALONG ANY PAVER EDGE NOT RESTRAINED BY CURB, CURB-AND-GUTTER, SIDEWALK, SHARED-USE PATH, ETC. EDGING TO BE PERMALOC ASPHALT EDGE, BLACK, 3" x 3" OR APPROVED EQUAL.

PAYMENT - PAYMENT FOR THE TRUCK APRON PAVEMENT WILL BE MADE AT THE UNIT PRICE BID PER SQUARE YARD FOR ITEM SPECIAL - BRICK PAVERS, AS PER PLAN, AND SHALL INCLUDE THE CONCRETE BASE SLAB, BITUMINOUS SETTING BED, ASPHALT ADHESIVE, BRICK PAVERS, AND SAND FILL. THE COST OF ALL CONCRETE CURBING WILL BE PAID UNDER THE APPROPRIATE 609 CURB ITEM. AGGREGATE BASE WILL BE PAID UNDER ITEM 304 - AGGREGATE BASE.

ITEM 659 - SEEDING AND MULCHING, AS PER PLAN

SEED: CERTIFICATION OF GRASS SEED SHALL BE PROVIDED BY SEED VENDOR FOR EACH GRASS-SEED MIXTURE STATING THE BOTANICAL AND COMMON NAME, PERCENTAGE BY WEIGHT OF EACH SPECIES AND VARIETY; AND PERCENTAGE OF PURITY, GERMINATION, AND WEED SEED. INCLUDE THE YEAR OF PRODUCTION AND DATE OF PACKAGING. FURNISH NATIONAL TURFGRASS EVALUATION PROGRAM (NTEP) DATA FOR EACH SPECIES TO BE USED.

GRASS SEED MUST BE FRESH, CLEAN, DRY, NEW-CROP SEED COMPLYING WITH THE A.O.S.A. "JOURNAL OF SEED TECHNOLOGY" RULES FOR TESTING SEEDS FOR PURITY AND GERMINATION TOLERANCES.

SEED SPECIES SHALL BE AS FOLLOWS, WITH NOT LESS THAN 90 PERCENT GERMINATION, NOT LESS THAN 98 PERCENT PURE SEED, AND NOT MORE THAN 0.5 PERCENT WEED SEED.

TURFGRASS SEED MIX PROPORTIONED BY WEIGHT:

A. 80 PERCENT TALL FESCUE (FESTUCA ARUNDINACEA), WITH A MINIMUM OF 3 IMPROVED TURF-TYPE VARIETIES. KENTUCKY-31 AND ALTA VARIETIES ARE NOT APPROVED.
B. 20 PERCENT PERENNIAL RYEGRASS (LOLIUM PERENNE).

SEEDING: SOW SEED AT A TOTAL RATE OF 7-9 LB. / 1000 S.F. WITH A SPREADER OR SEEDING MACHINE. RAKE SEED LIGHTLY INTO TOP 1/8 INCH OF SOIL, ROLL LIGHTLY, AND WATER WITH FINE SPRAY. THOROUGHLY COVER WITH STRAW AND NETTING. NETTING SHALL BE ADEQUATELY PINNED TO PREVENT THE STRAW FROM BEING BLOWN OR WASHED AWAY.

PROTECT SEEDED AREAS WITH SLOPES EXCEEDING 3:1 WITH EROSION CONTROL BLANKETS AS DIRECTED BY THE ENGINEER. COST OF EROSION CONTROL BLANKETS, MATERIAL, AND LABOR SHALL BE PAID FOR BY THE CITY.

HYDRO-SEEDING: NOT PERMITTED

HYDRO-MULCHING: NOT PERMITTED

TURF MAINTENANCE: MAINTAIN AND ESTABLISH TURF BY WATERING, FERTILIZING, WEEDING, MOWING, TRIMMING, AND REPLANTING TO ESTABLISH HEALTHY, VIABLE TURF. ROLL, REGRADE, AND REPLANT BARE OR ERODED AREAS AND REMULCH TO PRODUCE A UNIFORMLY SMOOTH TURF. PROVIDE THE SAME MATERIALS AND INSTALLATION AS THOSE USED IN THE ORIGINAL INSTALLATION. WATER TURF WITH FINE SPRAY AT A MINIMUM RATE OF 1 INCH PER WEEK UNLESS RAINFALL PRECIPITATION IS ADEQUATE.

MOW TURFGRASS SEED MIX AREAS AS SOON AS TOP GROWTH IS TALL ENOUGH TO CUT. REPEAT MOWING TO MAINTAIN SPECIFIED HEIGHT WITHOUT CUTTING MORE THAN ⅓ OF GRASS HEIGHT. MOW AREAS TO A HEIGHT OF 2 TO 3 INCHES.

THE FOLLOWING QUANTITIES IN THE TABLE ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS.

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS. ALL SEEDING AND MULCHING SHALL BE DONE TO DAMAGED AREAS OUTSIDE THE GRADING LIMITS AT THE EXPENSE OF THE CONTRACTOR.

CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

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PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEM.

ALIGNMENT	203 EXCAVATION	203 EMBANKMENT	659 SOIL ANALYSIS TEST	659 TOPSOIL, SHREDDED 4"	659 SEEDING AND MULCHING, AS PER PLAN	659 REPAIR SEEDING AND MULCHING	659 INTER-SEEDING	659 COMMERCIAL FERTILIZER	659 LIME	659 WATER
	CY	CY	EACH	CY	SY	SY	SY	TON	ACRE	MGAL
PLAINFIELD RD	5762	1095		924	8328	416	416	1.15	1.70	46
PROP HUNT RD	2598	462		5	49	2	2	0.01	0.01	0
EX HUNT RD	1904	921		656	5907	295	295	0.80	1.21	33
PEPPERMILL LN	1159	12		129	1162	58	58	0.16	0.23	6
SR 126 ENTRANCE	454	0		170	1533	77	77	0.21	0.32	8
KROGER	823	184		9	84	4	4	0.01	0.02	0
100% LOCAL FUNDING SPLIT CARRIED TO GENERAL SUMMARY	2011	852	0	263	2372	119	119	0.32	0.49	13
TOTALS CARRIED TO GENERAL SUMMARY	12700	2674	2	1894	17063	853	853	2.34	3.49	94

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GENERAL NOTES

HAM-PLAINFIELD RD ROUNDABOUTS

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ITEM 614, MAINTAINING TRAFFIC

A MINIMUM OF 1 LANE(S) OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES BY USE OF THE EXISTING PAVEMENT, THE COMPLETED PAVEMENT, OR ITEM 615 PAVEMENT FOR MAINTAINING TRAFFIC.

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES, EXCEPT FOR A PERIOD NOT TO EXCEED 45 CONSECUTIVE CALENDAR DAYS, WHEN THROUGH TRAFFIC MAY BE DETOURED AS SHOWN ON SHEET A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $500 PER DAY FOR EACH CALENDAR DAY THE ROADWAY REMAINS 38 CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

NO WORK SHALL BE PERFORMED AND ALL EXISTING LANES SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR EVENTS:

CHRISTMAS	FOURTH OF JULY
NEW YEARS	LABOR DAY
MEMORIAL DAY	THANKSGIVING

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY OR EVENT FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THIS PERIOD:

DAY OF HOLIDAY OR EVENT	TIME ALL LANES MUST BE OPEN TO TRAFFIC
SUNDAY	12:00N FRIDAY THROUGH 6:00AM MONDAY
MONDAY	12:00N FRIDAY THROUGH 6:00AM TUESDAY
TUESDAY	12:00N MONDAY THROUGH 6:00AM WEDNESDAY
WEDNESDAY	12:00N TUESDAY THROUGH 6:00AM THURSDAY
THURSDAY	12:00N WEDNESDAY THROUGH 6:00AM FRIDAY
THURSDAY (THANKSGIVING ONLY)	6:00AM WEDNESDAY THROUGH 6:00AM MONDAY
FRIDAY	12:00N THURSDAY THROUGH 6:00AM MONDAY
SATURDAY	12:00N FRIDAY THROUGH 6:00AM MONDAY

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH O WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

NOTICE OF CLOSURE SIGNS (W20-H13) SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD OR RAMP CLOSURE IN ACCORDANCE WITH THE NOTICE OF CLOSURE TIME TABLE BELOW. AT THE APPROVAL OF THE ENGINEER, PORTABLE CHANGEABLE MESSAGE SIGNS MAY BE USED IN LIEU OF THE STANDARD FLATSHEET SIGN FOR CLOSURE DURATIONS OF LESS THAN 1 WEEK.

TEMPORARY DRAINAGE ITEMS

TEMPORARY DRAINAGE ITEMS LABELED ON THE MAINTENANCE OF TRAFFIC PLAN ARE ITEMIZED ON THE SUMMARY TABLE. PAYMENT FOR THE TEMPORARY DRAINAGE ITEMS ARE ITEMIZED AND CARRIED TO THE GENERAL SUMMARY.

ITEM 614, MAINTAINING TRAFFIC, AS PER PLAN (CONTINUED)

THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD/RAMP FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT OR NEAR THE POINT OF CLOSURE. THE SIGNS MAY

BE ERECTED ANYWHERE ON RAMPS AS LONG AS THEY ARE VISIBLE TO THE MOTORISTS USING THE RAMP. ON ENTRANCE RAMPS, THE SIGN SHALL BE ERECTED WELL IN ADVANCE OF THE MERGE AREA TO AVOID DISTRACTING MOTORISTS.

NOTICE OF CLOSURE SIGN TIME TABLE

ITEM	DURATION OF CLOSURE	SIGN DISPLAYED TO PUBLIC
RAMP & ROAD	>=2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS & < 2 WEEKS	7 CALENDAR DAYS PRIOR TO CLOSURE
CLOSURES < 12 HOURS		2 BUSINESS DAYS PRIOR TO CLOSURE

THE SIGN SHALL DISPLAY THE DATE OF THE CLOSURE IN MMM-DD FORMAT AND THE NUMBER OF DAYS OF THE CLOSURE. THE LAST LINE OF THE W20-H13 SIGN LISTS A PHONE NUMBER WHICH A MOTORIST MAY CALL FOR ADDITIONAL INFORMATION. THIS IS TO BE A SPECIFIC OFFICE WITHIN THE DISTRICT RATHER THAN THE GENERAL SWITCHBOARD NUMBER.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DETERMINED BY THE ENGINEER FOR THE MAINTENANCE OF TRAFFIC.

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN SIGNS AND SIGN SUPPORTS, AS DETAILED IN THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AND TYPE III BARRICADES OF THE TYPE AND LOCATION AS FOLLOWS:

SEE SHEET 38 FOR LOCATION OF ROAD CLOSURE SIGNS.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

WORK ZONE MARKINGS AND SIGNS

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AT LOCATION IDENTIFIED BY THE ENGINEER FOR WORK ZONE PAVEMENT MARKINGS AND SIGNS PER THE REQUIREMENTS OF C&MS 614.04 AND 614.11

SEE THE TABLE FOR PAVEMENT MARKINGS

DETOUR SIGNING 1 LS

MOT PHASE	608 TEMPORARY ASPHALT CONCRETE WALK	611 CATCH BASIN RECONSTRUCTED TO GRADE	614 WORK ZONE IMPACT ATTENUATOR (UNIDIRECTIONAL)	614 WORK ZONE LANE LINE, CLASS I, 4"	614 WORK ZONE CENTER LINE, CLASS I	614 WORK ZONE EDGE LINE, CLASS I, 4"	614 WORK ZONE CHANNELIZING LINE, CLASS I, 8"	614 WORK ZONE DOTTED LINE, CLASS I	614 WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS I	614 WORK ZONE STOP LINE, CLASS I	614 WORK ZONE ARROW, CLASS I	615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A	622 PORTABLE BARRIER, 32"
	SF	EACH	EACH	MILE	MILE	MILE	FT	FT	FT	FT	EACH	SY	FT
HUNT ROAD													
PHASE 1**	0	2	0	0.00	0.26	0.38	1042	54	0	0	17	947	0
PHASE 2**	0	0	0	0.00	0.20	0.34	84	200	0	20	0	77	0
PHASE 2A**	0	0	0	0.00	0.01	0.02	0	50	0	0	0	0	0
PHASE 3**	0	0	0	0.00	0.21	0.42	97	0	0	20	2	0	0
PHASE 3A**	0	0	0	0.00	0.13	0.25	152	0	0	0	0	0	0
PHASE 3B**	0	0	0	0.00	0.04	0.07	25	0	0	20	1	0	0
TEMP PAVT AT LOC OF PROP SPL ISLS/CC**												0	
PLAINFIELD RD & HUNT RD													
PHASE 1	0	1	0	0.00	0.22	0.34	639	697	0	97	12	442	0
PHASE 2	0	0	0	0.03	0.25	0.56	418	556	56	171	8	0	0
PHASE 3	0	0	0	0.03	0.21	0.48	3541	586	0	99	15	131	0
PHASE 4	0	0	0	0.10	0.31	0.56	2427	124	0	94	12	0	0
TEMP PAVT AT LOC OF PROP SPL ISLS/CC												2768	
PLAINFIELD RD & PEPPERMILL LN													
PHASE 1	1344	6	1	0.25	0.32	0.36	260	0	0	0	5	1299	140
PHASE 2	0	0	0	0.29	0.41	0.78	202	251	0	75	5	0	0
PHASE 2A	0	0	0	0.00	0.00	0.00	0	0	0	0	0	0	0
PHASE 2B	0	0	0	0.00	0.00	0.29	0	145	0	0	0	0	0
PHASE 3	0	0	0	0.24	0.33	0.64	251	242	0	131	5	0	0
PHASE 4	0	0	0	0.00	0.08	0.18	41	0	0	20	1	0	0
TEMP PAVT AT LOC OF PROP SPL ISLS/CC												1919	
**100% LOCAL FUNDING SPLIT CARRIED TO GENERAL SUMMARY	0	2	0	0.00	0.83	1.48	1399	304	0	60	20	1024	0
TOTALS CARRIED TO GENERAL SUMMARY	1344	9	1	0.95	2.96	5.67	9177	2905	56	747	83	7584	140

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MAINTENANCE OF TRAFFIC GENERAL NOTES

HAM-PLAINFIELD RD ROUNDABOUTS

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MAINTENANCE OF TRAFFIC SIGNAL/FLASHER INSTALLATION

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC SIGNAL/FLASHER INSTALLATIONS WITHIN THE PROJECT UNDER THE FOLLOWING CONDITIONS:

1. EXISTING SIGNAL/FLASHER INSTALLATIONS WHICH THE PLANS REQUIRE THE CONTRACTOR TO ADJUST, MODIFY, ADD ONTO OR REMOVE, OR WHICH THE CONTRACTOR ACTUALLY ADJUSTS, MODIFIES OR OTHERWISE DISTURBS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ENTIRE INSTALLATION (AT AN INTERSECTION) FROM THE TIME HIS OPERATIONS FIRST DISTURB THE INSTALLATION UNTIL THE INSTALLATION HAS BEEN SUBSEQUENTLY REMOVED OR MODIFIED AND THE WORK IS ACCEPTED.

2. NEW OR REUSED SIGNAL/FLASHER INSTALLATIONS OR DEVICES, INSTALLED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF THESE FROM THE TIME OF INSTALLATION UNTIL THE WORK IS ACCEPTED.

THE CONTRACTOR SHALL CORRECT AS QUICKLY AS POSSIBLE ALL OUTAGES OR MALFUNCTIONS. HE SHALL PROVIDE THE MAINTAINING AGENCY AND THE ENGINEER SUCH ADDRESSES AND PHONE NUMBERS WHERE HIS MAINTENANCE FORCES CAN BE CONTACTED. THE CONTRACTOR SHALL PROVIDE ONE OR MORE PERSONS TO RECEIVE ALL CALLS AND DISPATCH THE NECESSARY MAINTENANCE FORCES TO CORRECT OUTAGES. SUCH A PERSON OR PERSONS MAY BE USED TO PERFORM OTHER DUTIES AS LONG AS PROMPT ATTENTION IS GIVEN TO THESE CALLS AND A PERSON IS READILY AVAILABLE CONTINUOUSLY 24 HOURS A DAY, 7 DAYS A WEEK. ALL LAMP OUTAGES, CABLE OUTAGES, ELECTRICAL FAILURES, EQUIPMENT MALFUNCTIONS AND MISALIGNED SIGNAL HEADS SHALL BE CORRECTED TO THE SATISFACTION OF THE ENGINEER WITH THE SIGNAL BACK TO SERVICE WITHIN FOUR HOURS AFTER THE CONTRACTOR HAS BEEN NOTIFIED OF THE OUTAGE.

IN THE EVENT NEW SIGNALS ARE DAMAGED PRIOR TO ACCEPTANCE, ALL DAMAGED EQUIPMENT EXCEPT POLES AND CONTROL EQUIPMENT SHALL BE REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER WITH THE SIGNAL BACK IN SERVICE WITHIN 8 HOURS AFTER THE CONTRACTOR'S NOTIFICATION OF THE OUTAGE. THE CONTRACTOR SHALL ARRANGE FOR FULL TRAFFIC CONTROL UNTIL THE SIGNAL IS BACK IN OPERATION.

IF POLES AND/OR CONTROL EQUIPMENT ARE DAMAGED AND MUST BE REPLACED, THE CONTRACTOR SHALL MAKE TEMPORARY REPAIRS AS NECESSARY TO BRING THE SIGNAL BACK INTO FULL OPERATION WITHIN THE ALLOWED 8-HOUR PERIOD, AND SHALL MAKE PERMANENT REPAIRS OR REPLACEMENT AS SOON THEREAFTER AS POSSIBLE.

NONE OF THE ABOVE SHALL BE CONSTRUED AS COLLECTIVE OR CONSECUTIVE OUTAGE TIME PERIODS AT ANY ONE LOCATION. THAT IS, WHERE MORE THAN ONE OUTAGE OCCURS AT ANY ONE LOCATION THEN THE ALLOTTED TIME LIMIT SHALL BE FOR THE WORST SINGLE OUTAGE.

WHERE OUTAGES ARE THE DIRECT RESULT OF A VEHICLE ACCIDENT THE RESPONSE OF THE CONTRACTOR SHALL BE AS OUTLINED ABOVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COLLECTION OF ANY COMPENSATION FOR THIS WORK FROM THOSE PARTIES RESPONSIBLE FOR THE DAMAGE.

MAINTENANCE OF TRAFFIC SIGNAL/FLASHER INSTALLATION (CONTINUED)

WHERE THE CONTRACTOR HAS FAILED TO, OR CANNOT RESPOND TO, AN OUTAGE OR SIGNAL EQUIPMENT MALFUNCTION, AT THESE LOCATIONS WITHIN HIS RESPONSIBILITY, WITHIN PERIODS AS SPECIFIED ABOVE, THE ENGINEER MAY INVOKE THE PROVISIONS OF SECTION 105.15 AND ANY SUBSEQUENT BILLINGS TO THE STATE OR THE CITY OF BLUE ASH FOR POLICE SERVICES AND MAINTENANCE SERVICES BY CITY FORCES SHALL BE DEDUCTED FROM MONIES DUE OR TO BECOME DUE THE CONTRACTOR IN ACCORDANCE WITH PROVISIONS OF SECTION 105.15.

THE CONTRACTOR SHALL PROVIDE THE MAINTENANCE SERVICE ENTIRELY WITH HIS FORCES OR HE MAY CHOOSE TO ENTER INTO A COOPERATIVE UNDERSTANDING WITH THE LOCAL MAINTAINING AGENCY TO PROVIDE THE MAINTENANCE. THE CONTRACTOR SHALL INFORM THE ENGINEER, IN WRITING, OF THE MAINTENANCE METHOD SELECTED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ANY TRAFFIC SIGNAL COMPONENTS REQUIRED TO BE HANDLED DURING THE RELOCATION OF POLES AND REVISIONS TO THE SIGNAL SYSTEM. WHEN A TRAFFIC SIGNAL MUST BE TAKEN OUT OF SERVICE BY THE CONTRACTOR, DUE TO CONSTRUCTION PROCEDURES, THIS OUTAGE SHALL NOT EXCEED 2 HOURS AND SHALL NOT INCLUDE THE HOURS OF 7:00 AM TO 6:00 PM. ANY SIGNALIZED INTERSECTION, WHERE THE SIGNAL IS OUT OF SERVICE DUE TO CONSTRUCTION PROCEDURES, OR DUE TO AN OUTAGE OR MALFUNCTION OF EQUIPMENT AS DESCRIBED ABOVE, SHALL BE PROTECTED, BY THE CONTRACTOR, BY THE INSTALLATION OF TEMPORARY "STOP" SIGNS, EXCEPT FOR THE FOLLOWING INTERSECTIONS WHICH SHALL BE PROTECTED BY OFF-DUTY CITY OF BLUE ASH POLICE, HIRED BY THE CONTRACTOR:

1. HUNT RD AND PLAINFIELD RD

ANY VEHICULAR TRAFFIC SIGNAL HEAD, EITHER NEW OR EXISTING WHICH WILL BE OUT OF OPERATION SHALL BE COVERED IN THE MANNER DESCRIBED IN 632.25.

THE CONTRACTOR SHALL MAINTAIN COMPLETE RECORDS OF MALFUNCTIONS INCLUDING:

1. TIME OF NOTIFICATION OF MALFUNCTION;

2. TIME OF WORK CREWS ARRIVAL TO CORRECT THE MALFUNCTION;

3. ACTIONS TAKEN TO CORRECT THE MALFUNCTION, INCLUDING A LIST OF PARTS REPAIRED OR REPLACED;

4. A DIAGNOSIS OF REASON FOR THE MALFUNCTION AND PROBABILITY OF REOCCURRENCE;

5. TIME OF COMPLETION OF THE REPAIR AND SYSTEM RESTORED TO FULL SERVICE.

A COPY OF THESE RECORDS SHALL BE PROVIDED TO THE ENGINEER WITHIN THREE (3) WORKING DAYS FOLLOWING COMPLETION OF EACH REPAIR.

ALL COSTS RESULTING FROM THE ABOVE REQUIREMENTS SHALL BE CONSIDERED TO BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614, MAINTAINING TRAFFIC.

ADVANCE WORK ZONE INFORMATION

ADVANCE WORK ZONE INFORMATION SIGNS, AS USED IN THIS NOTE, ARE FIXED MESSAGE TYPES. THE SIGNS ARE TO BE LOCATED AT EXTREME DISTANCE FROM THE WORK AREA, AS SHOWN IN THE PLANS.

THE SIGNS SHALL BE BLACK ON ORANGE (INCLUDING A BLACK BORDER). THE LAYOUT SHALL BE IN CONFORMANCE WITH TEM CHAPTER 211.

WHEN REGULATORY INFORMATION IS PROVIDED, IT SHALL BE DISPLAYED SEPARATELY AS A STANDARD BLACK-ON-WHITE SIGN. MIXING OF BLACK-ON-WHITE REGULATORY INFORMATION ON A BLACK-ON-ORANGE INFORMATION SIGN IS PROHIBITED.

IF THE MOTORIST IS BEING DETOURED OR IF AN ALTERNATE ROUTE IS PROVIDED, THE ROUTE SHOULD BE SIGNED WITH ASSEMBLIES CONSISTING OF THE APPROPRIATE BLACK-ON-ORANGE DETOUR OR ALT MARKER WITH A STANDARD ROUTE MARKER AND ARROW PLATE. IF MORE TARGET VALUE IS DESIRED, THIS TRAIL BLAZER INFORMATION MAY BE SHOWN ON AN ORANGE PANEL (OMUTCD SECTION 2D.32).

ROUTE SIGN ASSEMBLIES SHALL BE SIZED ACCORDING TO THE TYPE OF ROAD ON WHICH THEY ARE LOCATED IN ACCORDANCE WITH THE OMUTCD.

SUPPORTS FOR SIGN INSTALLATIONS SHALL CONFORM TO ALL EXISTING STANDARDS FOR PERMANENT SIGNS. THESE SIGNS SHOULD NOT BE ATTACHED TO EXISTING SUPPORTS.

WHERE THE PLANS CALL FOR AN OVERLAY TO COVER A PORTION OF AN EXISTING SIGN, THE OVERLAY SHALL BE BLACK-ON-ORANGE. LETTER SIZES SHOULD BE THE SAME AS ON THE EXISTING SIGNS. WHEN LANE ARROWS ARE TO BE COVERED, A BLANK OVERLAY SHOULD BE PLACED OVER EACH OF THE AFFECTED ARROWS. WHEN A RAMP IS BEING CLOSED, RATHER THAN USING A BLANK OVERLAY TO COVER THE ENTIRE SIGN, THE LEGEND "EXIT CLOSED" (W20-H15) SHOULD BE USED ON A DIAGONAL OVERLAY (LOWER LEFT TO UPPER RIGHT) ON THE SIGN. THE SIZE OF LETTERING ON OVERLAYS AND THE SIZE OF THE OVERLAY ARE INDICATED IN THE PLANS. THE MINIMUM LETTER SIZE FOR THE DIAGONAL "EXIT CLOSED" (W20-H15) OVERLAY SHALL BE 12" C.

ALL ADVANCE WORK ZONE INFORMATION SIGN INSTALLATIONS LOCATED OUTSIDE OF THE PROJECT WORK LIMITS SHALL BE PAID FOR UNDER APPROPRIATE 630 ITEMS (SIGNS, SUPPORTS, CONCRETE, BREAKAWAY CONNECTION, OVERLAYS, REMOVALS, ETC.).

FLOODLIGHTING

FLOODLIGHTING OF THE WORK SITE FOR OPERATIONS CONDUCTED DURING NIGHTTIME PERIODS SHALL BE ACCOMPLISHED SO THAT THE LIGHTS DO NOT CAUSE GLARE TO THE DRIVERS ON THE ROADWAY. TO ENSURE THE ADEQUACY OF THE FLOODLIGHT PLACEMENT, THE CONTRACTOR AND THE ENGINEER SHALL DRIVE THROUGH THE WORK SITE EACH NIGHT WHEN THE LIGHTING IS IN PLACE AND OPERATIVE PRIOR TO COMMENCING ANY WORK. IF GLARE IS DETECTED, THE LIGHT PLACEMENT AND SHIELDING SHALL BE ADJUSTED TO THE SATISFACTION OF THE ENGINEER BEFORE WORK PROCEEDS.

PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC.

ITEM 614 - LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS

USE OF LAW ENFORCEMENT OFFICERS (LEOS) BY CONTRACTORS OTHER THAN THE USES SPECIFIED BELOW WILL NOT BE PERMITTED AT PROJECT COST. LEOS SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENTS OF C&MS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHALL BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS:

- DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS REQUIRED.

DURING A TRAFFIC SIGNAL INSTALLATION WHEN IMPACTING THE NORMAL FUNCTION OF THE SIGNAL OR THE FLOW OF TRAFFIC, OR WHEN TRAFFIC NEEDS TO BE DIRECTED THROUGH AN ENERGIZED TRAFFIC SIGNAL CONTRARY TO THE SIGNAL DISPLAY (E.G., DIRECTING MOTORISTS THROUGH A RED LIGHT).

IN ADDITION TO THE REQUIREMENT OF C&MS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHOULD BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS AS APPROVED BY THE ENGINEER:

- FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN A NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED FOR LONG-TERM LANE CLOSURES/SHIFTS (FOR THE FIRST AND LAST DAY OF MAJOR CHANGES IN TRAFFIC CONTROL SETUP)

IN GENERAL, LEOS SHOULD BE POSITIONED IN ADVANCE OF AND ON THE SAME SIDE AS THE LANE RESTRICTION OR AT THE POINT OF ROAD CLOSURE, AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH SIGNALIZED INTERSECTIONS IN WORK ZONES.

LEOS SHOULD NOT FORGO THEIR TRAFFIC CONTROL RESPONSIBILITIES TO APPREHEND MOTORISTS FOR ROUTINE TRAFFIC VIOLATIONS. HOWEVER, IF A MOTORIST'S ACTIONS ARE CONSIDERED TO BE RECKLESS, THEN PURSUIT OF THE MOTORIST IS APPROPRIATE.

THE LEOS WORK AT THE DIRECTION OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF THE LEOS WITH THE APPROPRIATE AGENCIES AND COMMUNICATING THE INTENTIONS OF THE PLANS WITH RESPECT TO DUTIES OF THE LEOS. THE ENGINEER SHALL HAVE FINAL CONTROL OVER THE LEOS' DUTIES AND PLACEMENT, AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE TWO PARTIES.

ENSURE PROVIDED LEOS HAVE BEEN TRAINED APPROPRIATE TO THE JOB DECISIONS THEY ARE REQUIRED TO MAKE WHILE ON THE PROJECT, IN ACCORDANCE WITH C&MS 614.03.

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ITEM 614 - LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS (CONTINUED)

THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT, IN ORDER TO RECEIVE INSTRUCTIONS REGARDING THE SPECIFIC WORK ASSIGNMENTS DURING HIS/HER SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF HIS/HER SHIFT. THE LEO SHALL REPORT TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE, THE LEO SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO-WAY COMMUNICATION DEVICE WHICH SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

LEOS (WITH PATROL CAR) REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE 250 HOURS

THE HOURS PAID SHALL INCLUDE ANY MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

ANY ADDITIONAL COSTS (ADMINISTRATIVE OR OTHERWISE) INCURRED BY THE CONTRACTOR TO OBTAIN THE SERVICES OF A LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE.

DUST CONTROL

THE CONTRACTOR SHALL FURNISH AND APPLY WATER FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED FOR DUST CONTROL PURPOSES:

ITEM 616, WATER 135 M. GAL.

TRENCH FOR WIDENING

TRENCH EXCAVATION FOR BASE WIDENING SHALL BE ONLY ON ONE SIDE OF THE PAVEMENT AT A TIME. THE OPEN TRENCH SHALL BE ADEQUATELY MAINTAINED AND PROTECTED WITH DRUMS OR BARRICADES AT ALL TIMES. PLACEMENT OF PROPOSED SUBBASE AND BASE MATERIAL SHALL FOLLOW AS CLOSELY AS POSSIBLE BEHIND EXCAVATION OPERATIONS. THE LENGTH OF WIDENING TRENCH WHICH IS OPEN AT ANY ONE TIME SHALL BE HELD TO A MINIMUM AND SHALL AT ALL TIMES BE SUBJECT TO APPROVAL OF THE ENGINEER.

OVERNIGHT TRENCH CLOSING

THE BASE WIDENING SHALL BE COMPLETED TO A DEPTH OF NO MORE THAN 3 INCHES BELOW THE EXISTING PAVEMENT BY THE END OF EACH WORK DAY. NO TRENCH SHALL BE LEFT OPEN OVERNIGHT EXCEPT FOR A SHORT LENGTH (25 FEET OR LESS) OF A WORK SECTION AT THE END OF THE TRENCH. IN CASE WORK MUST BE SUSPENDED BECAUSE OF INCLEMENT WEATHER OR OTHER REASONS, THE TRENCH FOR THE UNCOMPLETED BASE WIDENING SHALL BE BACKFILLED AT THE DIRECTION OF THE ENGINEER.

NOTIFICATION OF TRAFFIC RESTRICTIONS

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITING OF ALL

TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE SPECIAL HAULING PERMITS SECTION (HAULING.PERMITS@DOT.OHIO.GOV) AND THE DISTRICT PUBLIC INFORMATION OFFICE (PIO). THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

NOTIFICATION TIME TABLE

ITEM	DURATION OF CLOSURE	NOTICE DUE TO PERMITS & PIO
RAMP & ROAD CLOSURES	>= 2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE
	> 12HOURS & < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 12 HOURS	4 CALENDAR DAYS PRIOR TO CLOSURE
LANE CLOSURES & RESTRICTIONS	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 2 WEEKS	5 BUSINESS DAYS PRIOR TO CLOSURE
START OF CONSTRUCTION & TRAFFIC PATTERN CHANGES	N/A	14 CALENDAR DAYS PRIOR TO IMPLEMENTATION

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME TABLE.

SEQUENCE OF OPERATIONS:

ORDER OF ROUNDABOUT CONSTRUCTION SHALL BE AS FOLLOWS, UNLESS ALTERNATIVE PLAN IS SUBMITTED AND APPROVED BY ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES:
1. HUNT RD AT KROGER ENTRANCE, SEE SHEETS 39 - 53
2. HUNT RD AND PLAINFIELD RD, SEE SHEETS 54 - 69
3. PLAINFIELD RD AND PEPPERMILL LN, SEE SHEETS 70 - 94

NOTE FOR ALL PHASES: ELIMINATE PAVEMENT MARKINGS AND/OR SIGNAGE FROM EXISTING OR PRIOR PHASES THAT CONFLICT WITH PROPOSED WORK OR TRAFFIC PATTERNS.

HUNT RD AT KROGER ENTRANCE ROUNDABOUT SEQUENCE OF OPERATIONS:

PHASE 1, SEE SHEETS 39 - 41. CONSTRUCT TEMPORARY PAVEMENT AND DRAINAGE STRUCTURES ON THE SOUTH SIDE OF HUNT RD.

PHASE 2, SEE SHEETS 42 - 44. SHIFT TRAFFIC ONTO TEMPORARY PAVEMENT AND CONSTRUCT PAVEMENT, CURB, WALK, AND TEMPORARY PAVEMENT ON THE NORTH SIDE OF HUNT RD. MAINTAIN BUSINESS ACCESS THROUGH THE DRIVE NEAR MCDONALDS.

PHASE 2A, SEE SHEET 45. ADJUST TRAFFIC TO CONSTRUCT THE SHOWN WORK.

PHASE 3, SEE SHEETS 46 - 48. CLOSE BUSINESS ACCESS DRIVE NEAR MCDONALDS. SHIFT TRAFFIC ONTO PAVEMENT CONSTRUCTED IN PHASE 2. CONSTRUCT PAVEMENT AND CURB AND REMOVE TEMPORARY PAVEMENT TO LIMITS SHOWN. CONSTRUCT ACCESS DRIVE AT MCDONALDS, WITHOUT CENTER MEDIAN.

PHASE 3A, SEE SHEETS 49 - 50. OPEN BUSINESS ACCESS DRIVE NEAR MCDONALDS. SHIFT TRAFFIC BETWEEN ROUNDABOUT AND ACCESS DRIVE NORTH TO CONSTRUCT PAVEMENT, CURB, AND DRAINAGE AND REMOVE TEMPORARY PAVEMENT TO LIMITS SHOWN.

PHASE 3B, SEE SHEET 51. ADJUST TRAFFIC TO CONSTRUCT THE SHOWN WORK.

PHASE 4, SEE SHEET 52. OPEN ROUNDABOUT. CONSTRUCT SPLITTER ISLAND FOR EAST AND NORTH LEGS WITH 4' BUFFER UNDER TRAFFIC WITH DRUMS.

PHASE 4A, SEE SHEET 53. CONSTRUCT MEDIAN FOR BUSINESS ACCESS DRIVE NEAR MCDONALDS, REMOVE TEMPORARY PAVEMENT, CONSTRUCT WALK, AND CURB AT ROUNDABOUT WITH 4' BUFFER UNDER TRAFFIC WITH DRUMS.

HUNT RD AND PLAINFIELD RD ROUNDABOUT SEQUENCE OF OPERATIONS:

HUNT RD AND PLAINFIELD RD ROUNDABOUT CONSTRUCTION SHALL BE FORMED DURING OFF-PEAK HOURS, OUTSIDE OF MONDAY THRU FRIDAY 7:00 AM - 6:00 PM HOURS.

PHASE 1, SEE SHEETS 54 - 57. SHIFT TRAFFIC SOUTH ON HUNT RD ON TEMPORARY PAVEMENT RESERVED FROM CONSTRUCTION OF HUNT RD AT KROGER ENTRANCE ROUNDABOUT. CONSTRUCT PAVEMENT, CURB, DRAINAGE, TEMPORARY TRAFFIC SIGNAL AND TEMPORARY PAVEMENT ON NORTH SIDE OF PROPOSED HUNT RD.

PHASE 2, SEE SHEETS 58 - 61. REMOVE CONCRETE MEDIAN ON PLAINFIELD RD NORTH OF HUNT RD INTERSECTION. SET UP TEMPORARY BUSINESS ACCESS DRIVE AS SHOWN FOR BUSINESSES ON THE SOUTH SIDE OF HUNT RD. SHIFT TRAFFIC NORTH ONTO PAVEMENT CONSTRUCTED IN PHASE 1. CONSTRUCT NEW BUSINESS ACCESS DRIVE. REMOVE EXISITNG PAVEMENT ADJACENT TO DRIVE. EXTEND PAVEMENT MARKINGS ON PLAINFIELD RD FOR RELOCATED TRAFFIC SIGNAL.

PHASE 3, SEE SHEETS 62 - 65. SHIFT TRAFFIC ON PLAINFIELD RD WEST TO CONSTRUCT PAVEMENT, CURB, AND TEMPORARY PAVEMENT ON EAST SIDE OF PLAINFIELD RD. OPEN NEW BUSINESS ACCESS DRIVE ON HUNT RD. REMOVE PAVEMENT AT TEMPORARY BUSINESS ACCESS DRIVE.

PHASE 4, SEE SHEETS 66 - 69. SHIFT TRAFFIC ON PLAINFIELD RD EAST TO CONSTRUCT PAVEMENT AND CURB EAST SIDE OF PLAINFIELD RD.

PHASE 5. CONSTRUCT SPLITTER ISLAND UNDER TRAFFIC FOR EAST AND WEST LEGS WITH 4' BUFFER UNDER TRAFFIC WITH DRUMS.

PHASE 5A. CONSTRUCT SPLITTER ISLAND ON SOUTH AND NORTH LEGS WITH 4' BUFFER UNDER TRAFFIC WITH DRUMS.

PHASE 5B. CONSTRUCT CENTER ISLAND WITH 4' BUFFER UNDER TRAFFIC WITH DRUMS. MAINTAIN ALL DIRECTIONS OF TRAFFIC LIMITING SHORT-TERM CLOSURES TO 15 MINUTE INTERVALS. REMOVE TRAFFIC SIGNAL AND EQUIPMENT. REQUESTS FOR ANY FURTHER ROAD CLOSURES/MOVEMENT RESTRICTIONS SHALL BE SUBMITTED TO ENGINEER AND CITY FOR APPROVAL.

PLAINFIELD RD AND PEPPERMILL LN ROUNDABOUT SEQUENCE OF OPERATIONS:

MAINTAIN PEDESTRIAN ACCESS THROUGH ALL PHASES OF CONSTRUCTION AS SHOWN ON SHEETS 36 - 37.

PHASE 1, SEE SHEETS 70 - 74. SHIFT TRAFFIC EAST ON REED HARTMAN HWY AND SOUTH ON PLAINFIELD RD TO CONSTRUCT TEMPORARY PAVEMENT, DRAINAGE, WALK, AND TEMPORARY TRAFFIC SIGNAL.

PHASE 2, SEE SHEETS 75 - 80. CLOSE PEPPERMILL LN AND ERECT DETOUR SIGNAGE, AS SHOW ON SHEET 38. SHIFT TRAFFIC ONTO TEMPORARY PAVEMENT AND CONSTRUCT EAST SIGN OF REED HARTMAN HWY, RETAINING WALL, AND SOUTH SIDE OF PLAINFIELD RD.

PHASE 2A, SEE SHEETS 81 - 83. CONSTRUCT PAVEMENT AND CURB ON THE EAST SIDE OF PLAINFIELD RD.

PHASE 2B, SEE SHEETS 84 - 86. CONSTRUCT PAVEMENT ON PLAINFIELD RD AND REED HARTMAN HWY DURING OFF-PEAK HOURS, OUTSIDE OF MONDAY THRU FRIDAY 7:00 AM - 6:00 PM.

PHASE 3, SEE SHEETS 87 - 92. SHIFT TRAFFIC TO EAST SIDE OF PLAINFIELD RD AND REED HARTMAN HWY TO CONSTRUCT PAVEMENT ON WEST SIDE.

PHASE 3A, SEE SHEETS 93 - 94. SHIFT TRAFFIC ON PLAINFIELD RD SOUTH TO CONSTRUCT PAVEMENT, CURB, AND SPLITTER ISLAND ON THE NORTH SIDE OF PLAINFIELD RD.

PHASE 4. CONSTRUCT SPLITTER ISLAND UNDER TRAFFIC FOR EAST AND WEST LEGS WITH 4' BUFFER UNDER TRAFFIC WITH DRUMS.

PHASE 4A. CONSTRUCT SPLITTER ISLAND ON SOUTH AND NORTH LEGS WITH 4' BUFFER UNDER TRAFFIC WITH DRUMS.

PHASE 4B. CONSTRUCT CENTER ISLAND WITH 4' BUFFER UNDER TRAFFIC WITH DRUMS. MAINTAIN ALL DIRECTIONS OF TRAFFIC LIMITING SHORT-TERM CLOSURES TO 15 MINUTE INTERVALS. REQUESTS FOR ANY FURTHER ROAD CLOSURES/MOVEMENT RESTRICTIONS SHALL BE SUBMITTED TO ENGINEER AND CITY FOR APPROVAL. REMOVE TRAFFIC SIGNAL AND EQUIPMENT.

CALCULATED CML CHECKED JS

MAINTENANCE OF TRAFFIC GENERAL NOTES

HAM-PLAINFIELD RD ROUNDABOUTS

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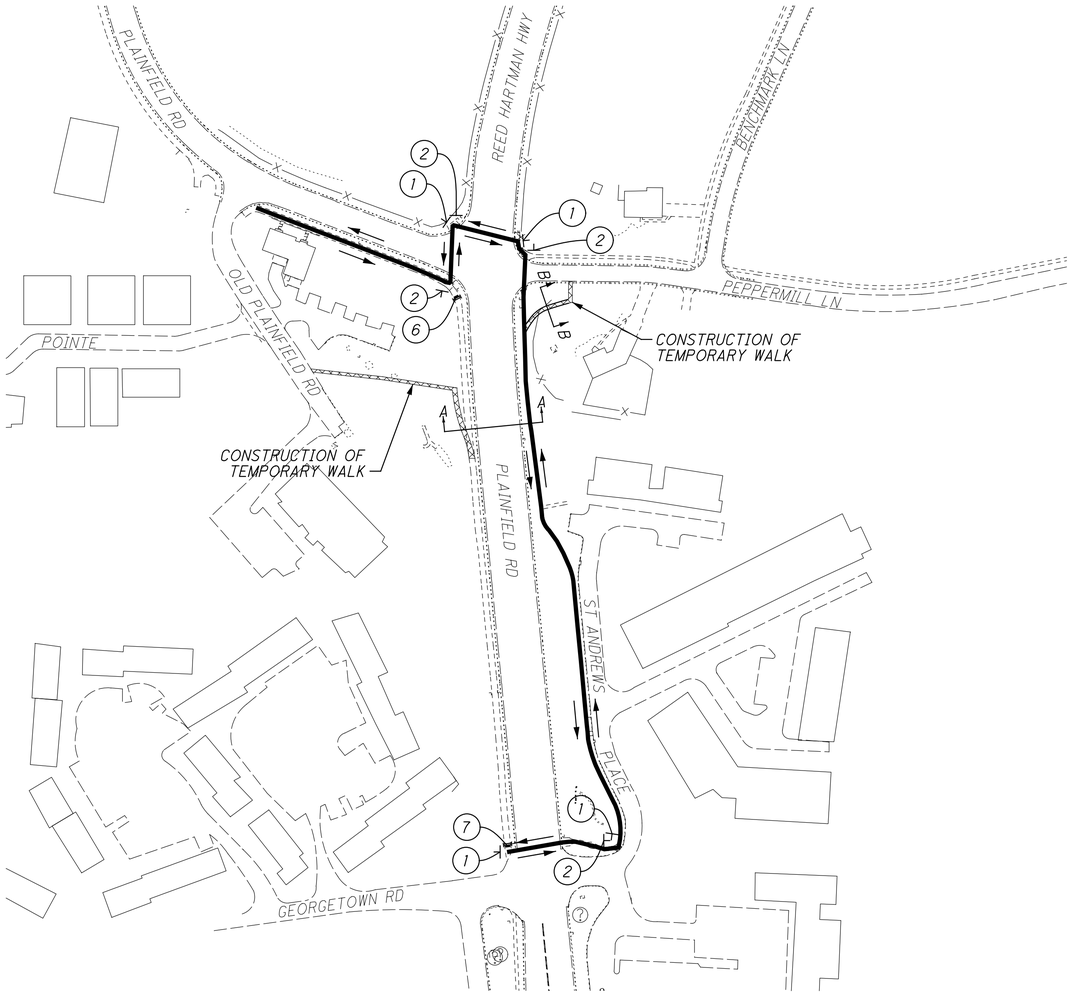
PHASE 1



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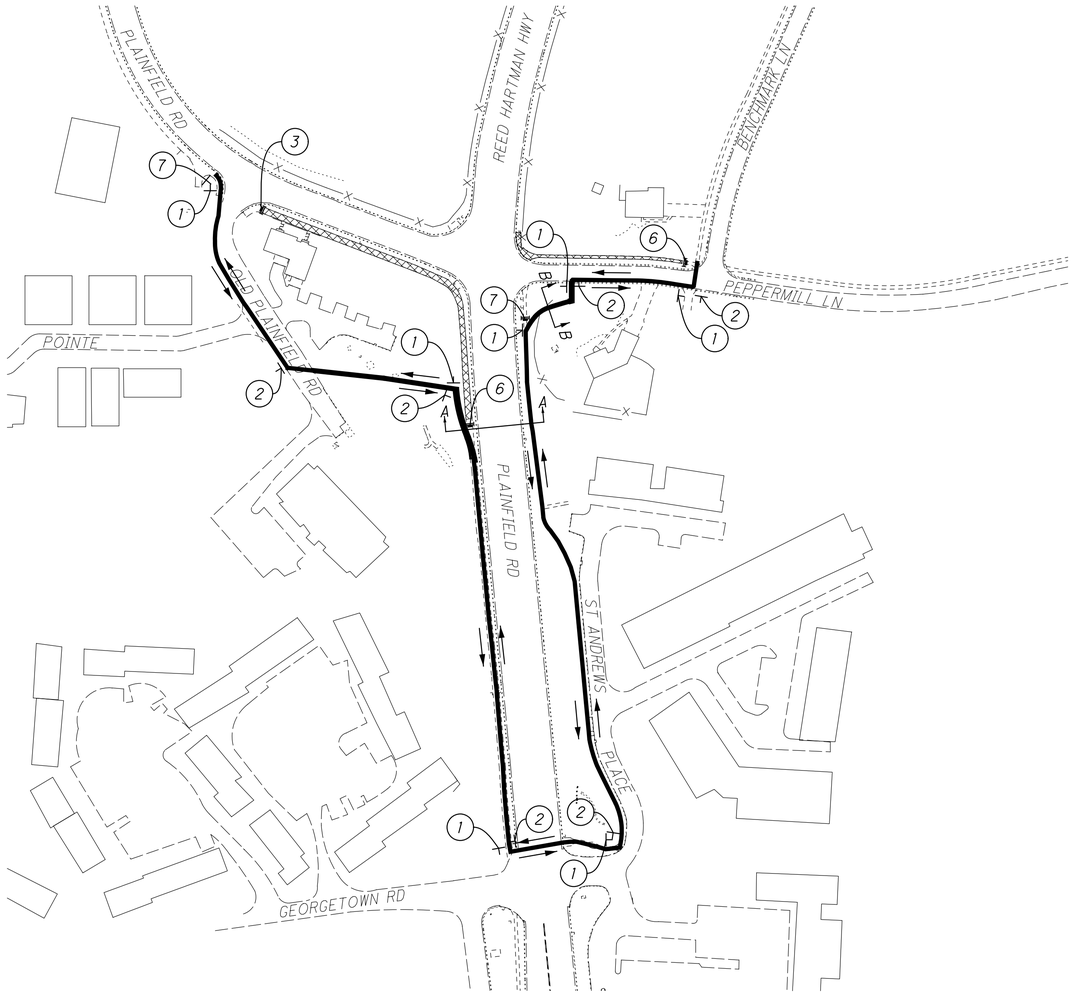


WORK AREA

1 — DETOUR — M4-9b-30

2 — DETOUR — M4-9b-30

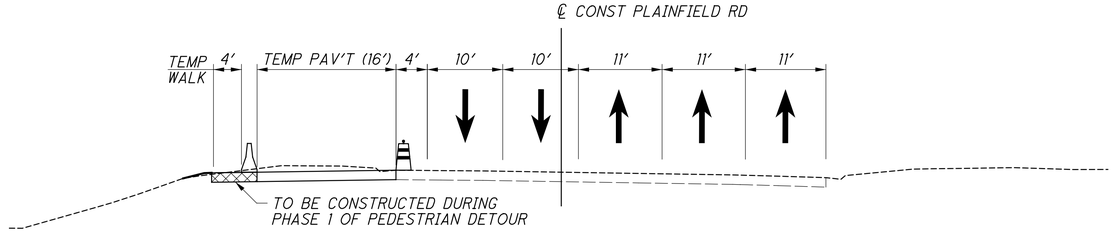
3 — SIDEWALK CLOSED — R9-9-24

4 — SIDEWALK CLOSED CROSS HERE — R9-11a-24

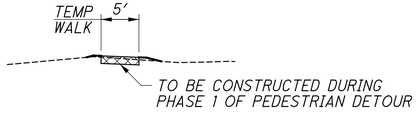
5 — SIDEWALK CLOSED CROSS HERE — R9-11a-24

6 — SIDEWALK CLOSED / DETOUR — R9-9-24 M4-9b-30

7 — SIDEWALK CLOSED / DETOUR — R9-9-24 M4-9b-30



SECTION A-A



SECTION B-B

HORIZONTAL SCALE IN FEET

CALCULATED LZS
CHECKED JS

MAINTENANCE OF TRAFFIC DETOUR PLAN
PEDESTRIAN DETOUR - PHASES 1 & 2

HAM-PLAINFIELD RD ROUNDABOUTS

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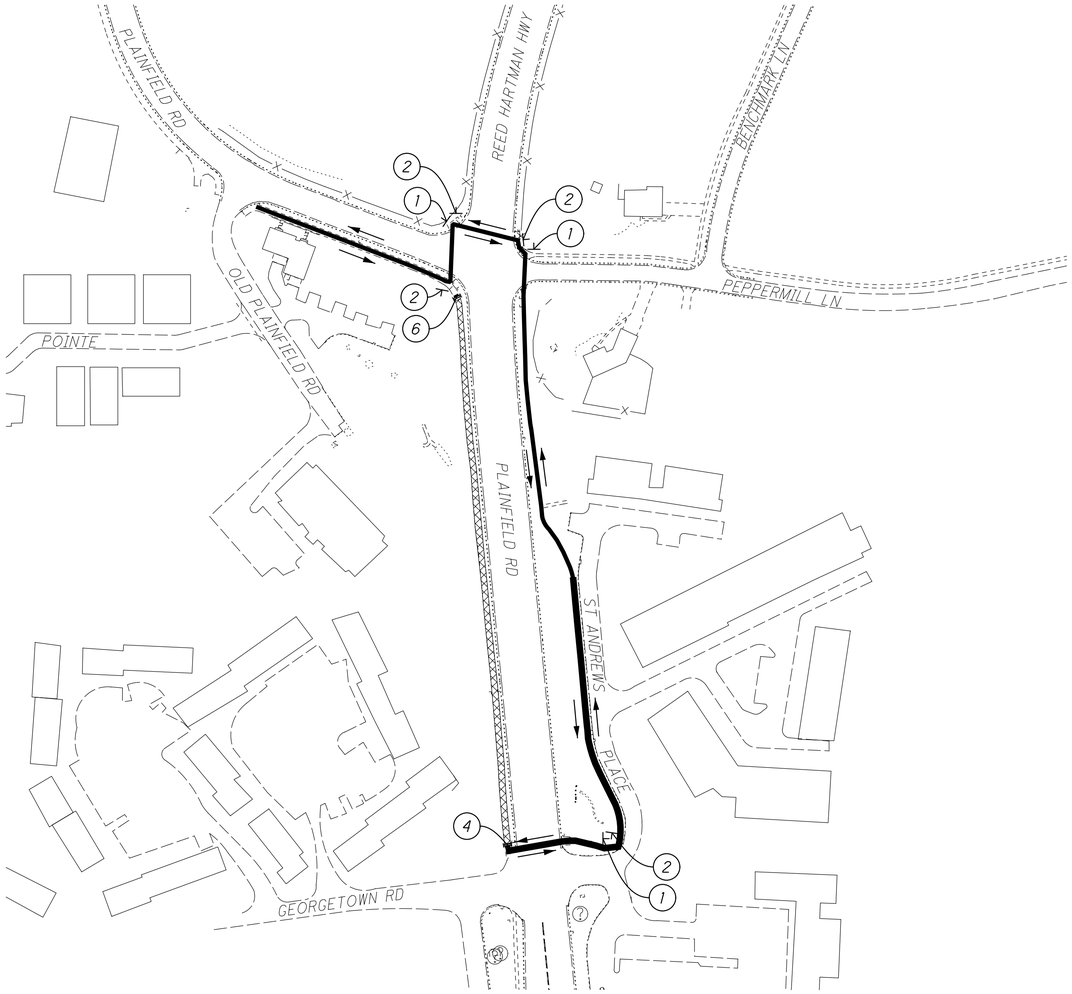
PHASE 3



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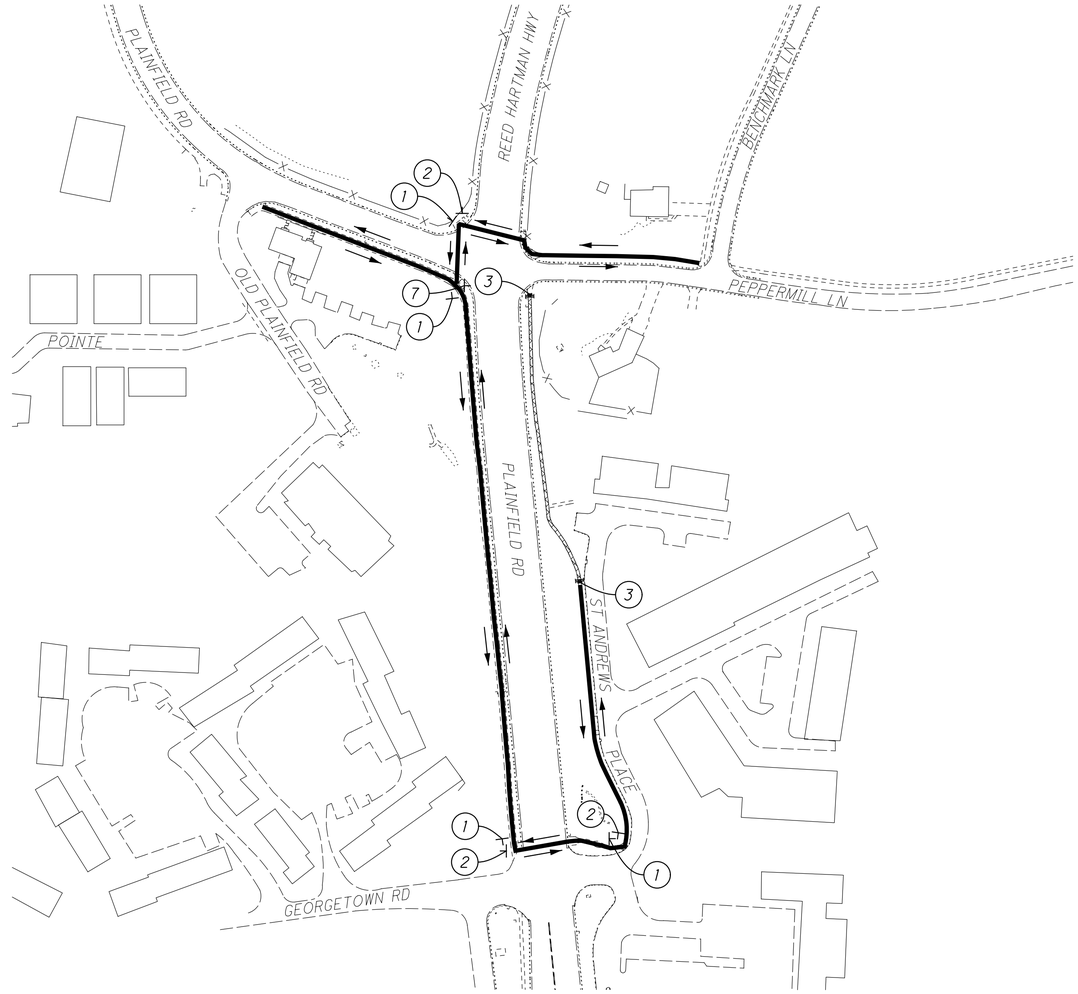

WORK AREA

1 — DETOUR — M4-9b-30

2 — DETOUR — M4-9b-30

3 — SIDEWALK CLOSED — R9-9-24

4 — SIDEWALK CLOSED CROSS HERE — R9-11a-24

5 — SIDEWALK CLOSED CROSS HERE — R9-11a-24

6 — SIDEWALK CLOSED / DETOUR — R9-9-24 M4-9b-30

7 — SIDEWALK CLOSED / DETOUR — R9-9-24 M4-9b-30

HORIZONTAL SCALE IN FEET

CALCULATED LZS
CHECKED JS

MAINTENANCE OF TRAFFIC DETOUR PLAN
PEDESTRIAN DETOUR - PHASES 3 & 4

HAM-PLAINFIELD RD ROUNDABOUTS

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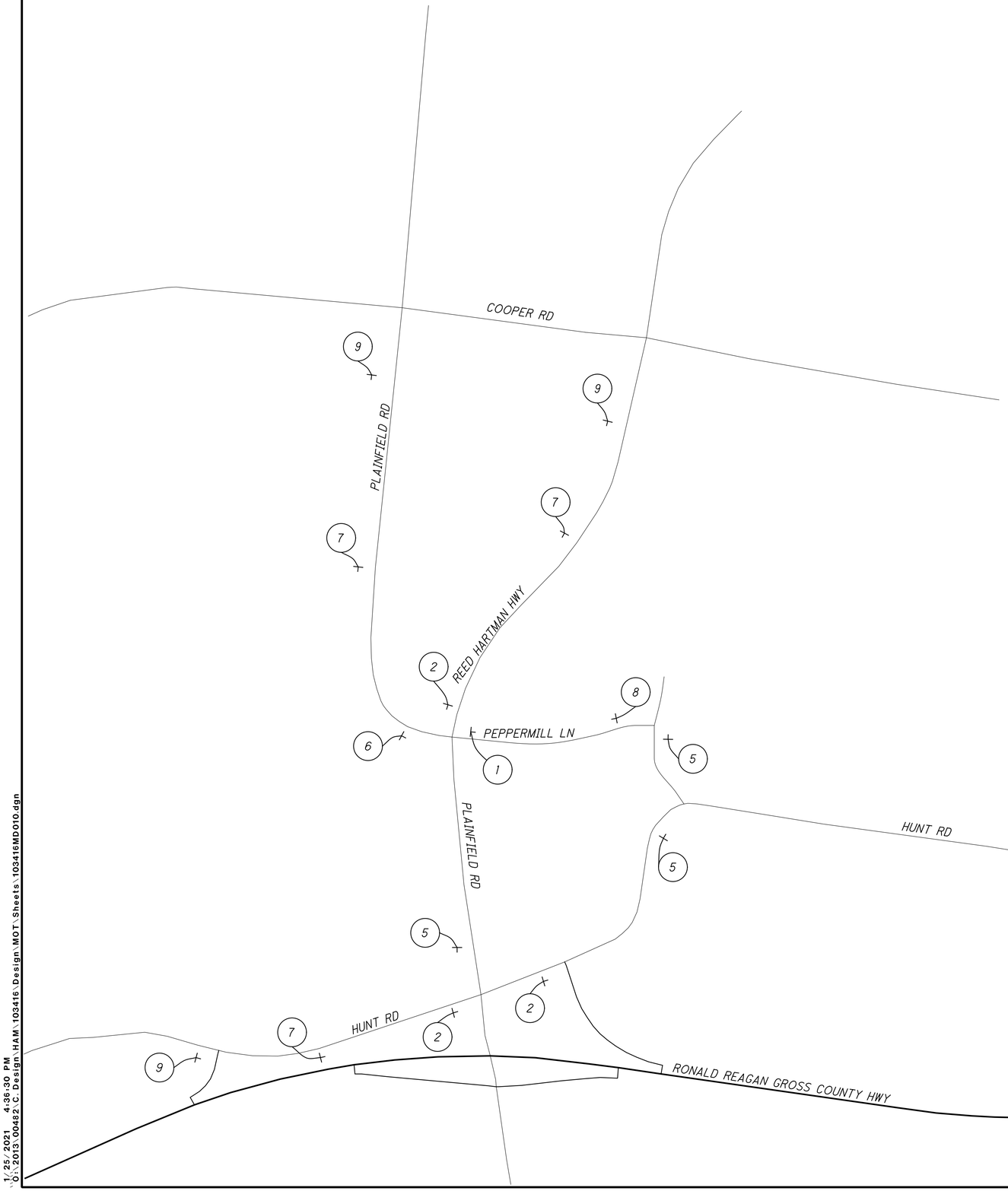


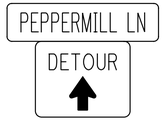
1



R11-2-30 R5-1-36 R11-2-30

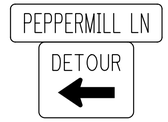
10' TYPE 3 BARRICADES (SOLID ACROSS STREET)

2



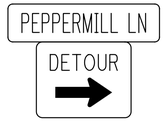
D3-1-48
M4-9c-30

3



D3-1-48
M4-9L-30

4



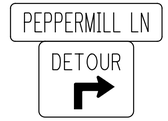
D3-1-48
M4-9R-30

5



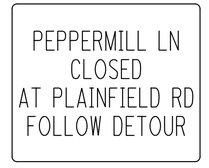
D3-1-48
M4-9L(MOD)-30

6



D3-1-48
M4-9R(MOD)-30

7



SPECIAL, BLACK ON ORANGE
(54" X 40")

8



M4-8a-24

9



W20-2-36

N

0 100 200 400
HORIZONTAL SCALE IN FEET

CALCULATED CML
CHECKED JS

MAINTENANCE OF TRAFFIC DETOUR PLAN
PEPPERMILL LANE

HAM-PLAINFIELD RD ROUNDABOUTS

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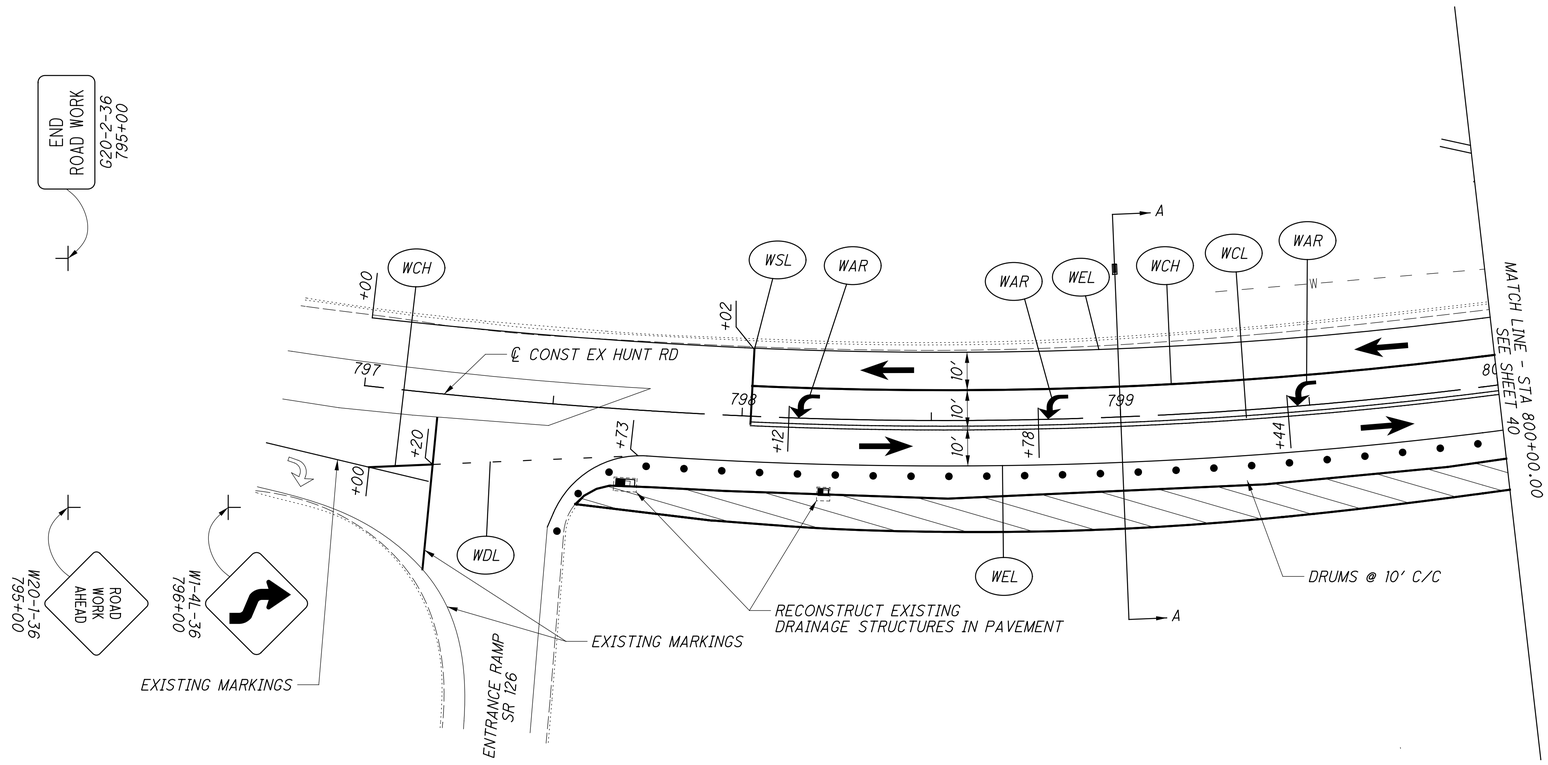

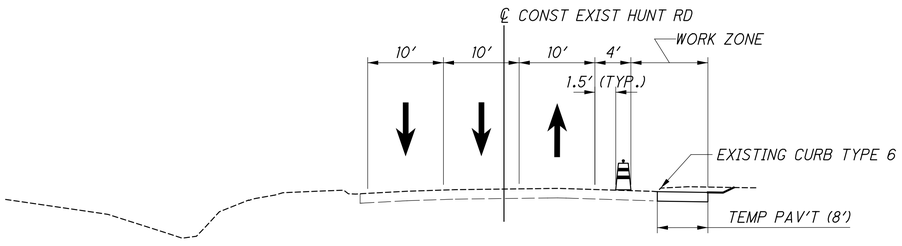

SECTION A-A
STA 799+00.00

LEGEND

WSL	WORK ZONE STOP LINE
WAR	WORK ZONE LANE ARROW
WCH	WORK ZONE CHANNELIZING LINE
WLL	WORK ZONE LANE LINE
WDL	WORK ZONE DOTTED LINE
WCL	WORK ZONE CENTER LINE
WEL	WORK ZONE EDGE LINE

TRAFFIC PATTERN

WORK AREA

TEMPORARY PAVEMENT CONSTRUCTION

TYPE III BARRICADE

COVERED OR PARTIALLY COVERED EXISTING SIGN

MOT DRUMS

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CML
CHECKED JS

MAINTENANCE OF TRAFFIC
HUNT RD - PHASE 1

HAM-PLAINFIELD RD ROUNDABOUTS

39
335

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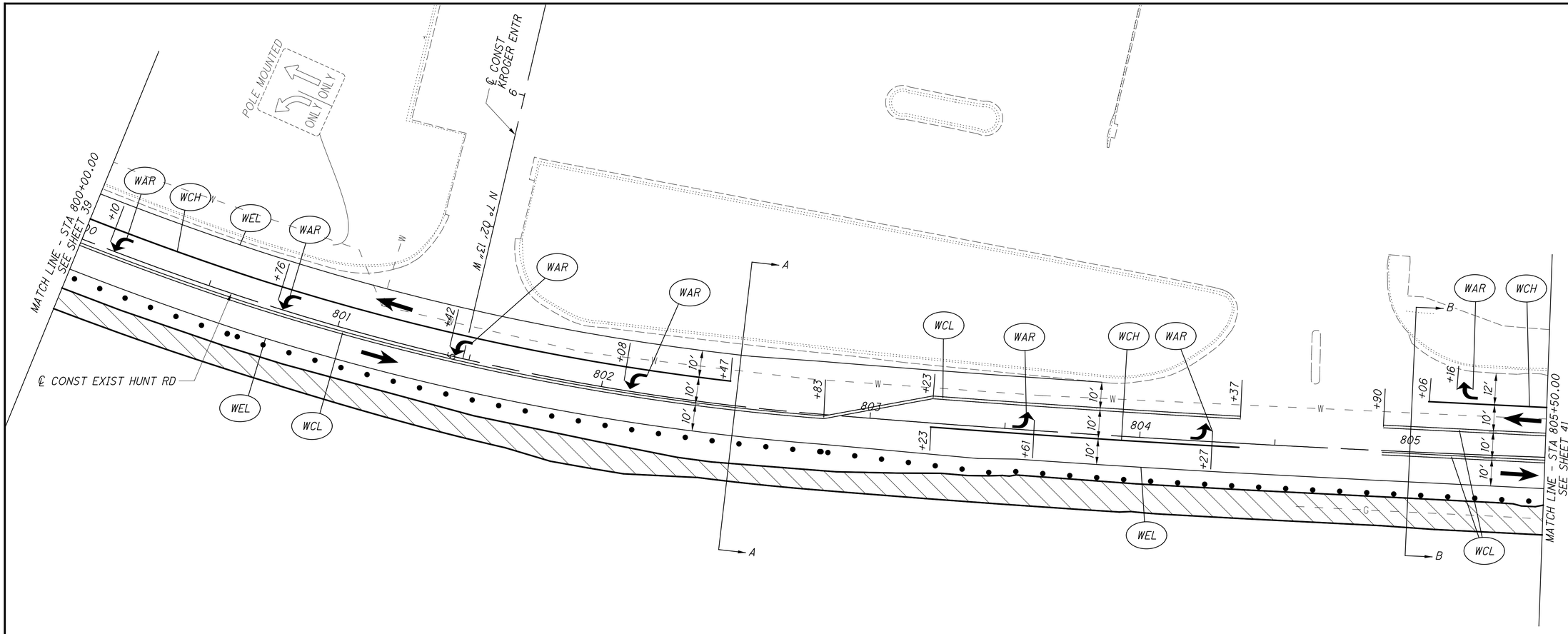
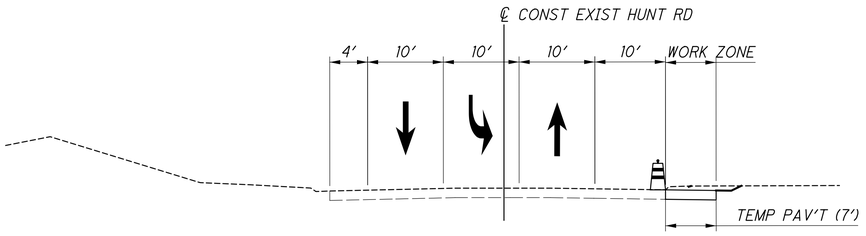
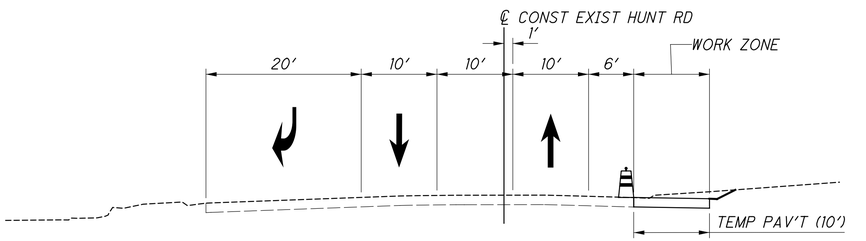




SECTION A-A
STA 802+50.00



SECTION B-B
STA 805+00.00

LEGEND

WSL	WORK ZONE STOP LINE
WAR	WORK ZONE LANE ARROW
WCH	WORK ZONE CHANNELIZING LINE
WLL	WORK ZONE LANE LINE
WDL	WORK ZONE DOTTED LINE
WCL	WORK ZONE CENTER LINE
WEL	WORK ZONE EDGE LINE

TRAFFIC PATTERN

WORK AREA

TEMPORARY PAVEMENT CONSTRUCTION

TYPE III BARRICADE

COVERED OR PARTIALLY COVERED EXISTING SIGN

MOT DRUMS

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CML
CHECKED JS

MAINTENANCE OF TRAFFIC
HUNT RD - PHASE 1
HAM-PLAINFIELD RD ROUNDABOUTS

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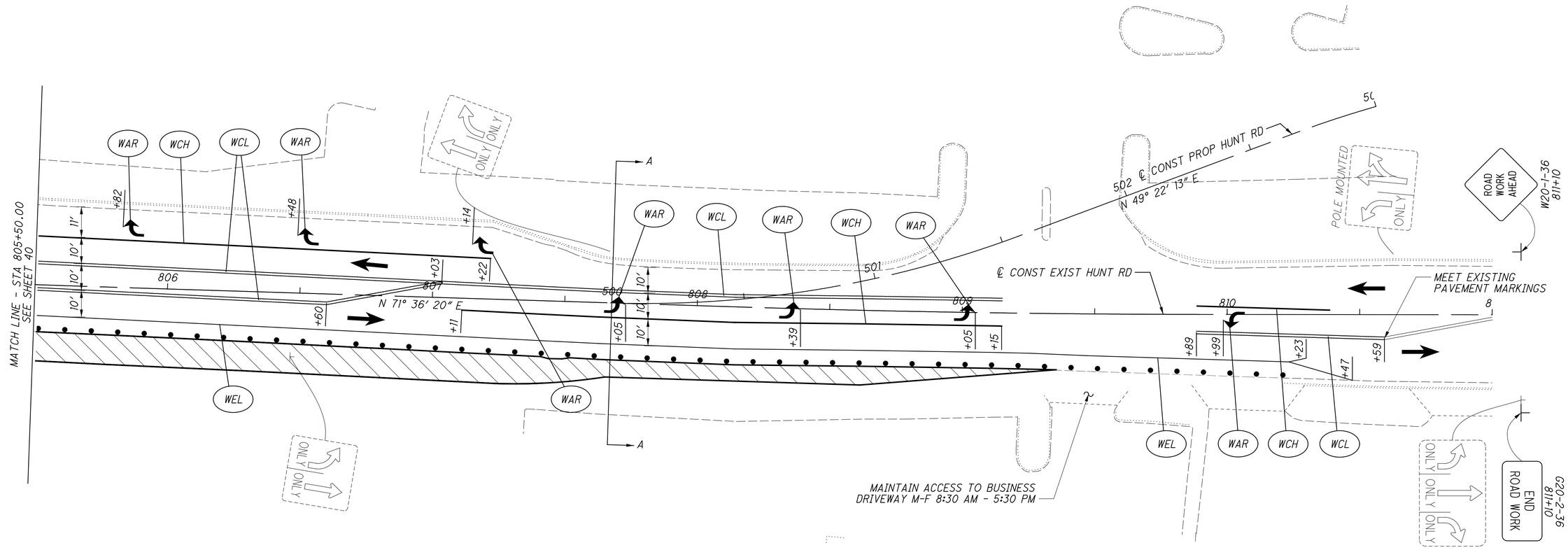

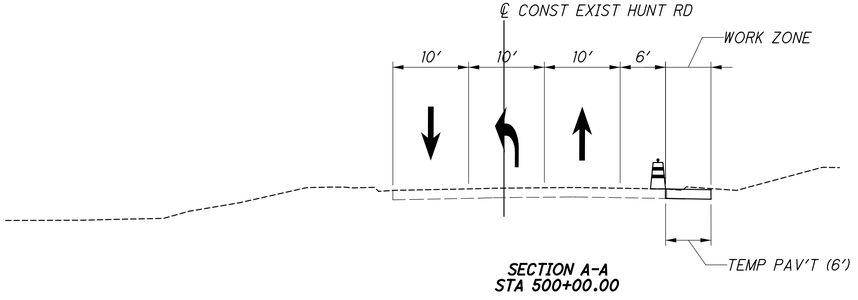

SECTION A-A
STA 500+00.00

LEGEND

WSL	WORK ZONE STOP LINE
WAR	WORK ZONE LANE ARROW
WCH	WORK ZONE CHANNELIZING LINE
WLL	WORK ZONE LANE LINE
WDL	WORK ZONE DOTTED LINE
WCL	WORK ZONE CENTER LINE
WEL	WORK ZONE EDGE LINE

TRAFFIC PATTERN

WORK AREA

TEMPORARY PAVEMENT CONSTRUCTION

TYPE III BARRICADE

COVERED OR PARTIALLY COVERED EXISTING SIGN

MOT DRUMS

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CML
CHECKED JS

MAINTENANCE OF TRAFFIC
HUNT RD - PHASE 1

HAM-PLAINFIELD RD
ROUNDABOUTS

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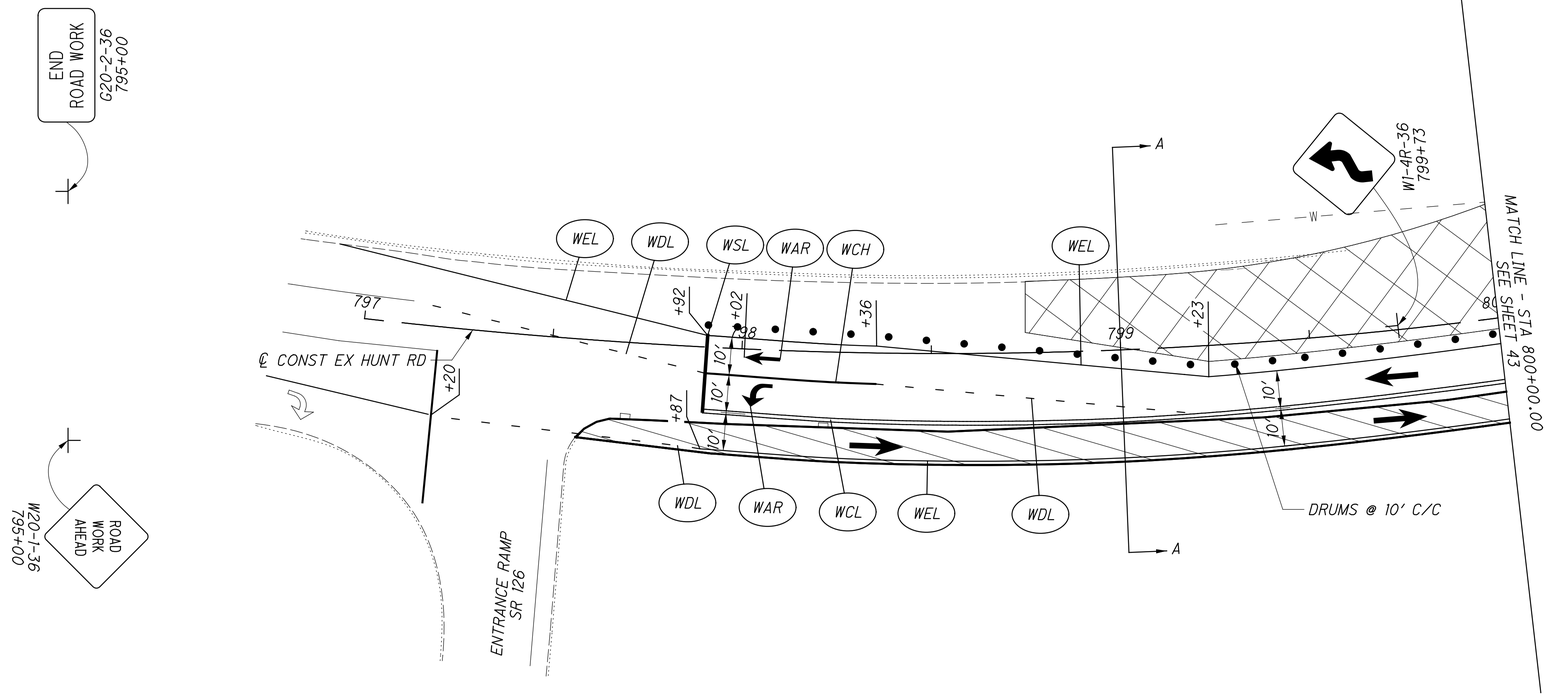

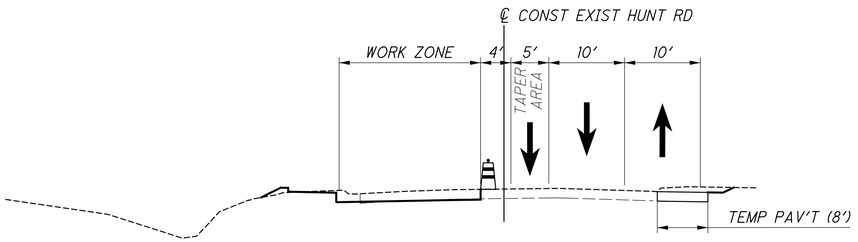

SECTION A-A
STA 799+00.00

LEGEND

WSL	WORK ZONE STOP LINE
WAR	WORK ZONE LANE ARROW
WCH	WORK ZONE CHANNELIZING LINE
WLL	WORK ZONE LANE LINE
WDL	WORK ZONE DOTTED LINE
WCL	WORK ZONE CENTER LINE
WEL	WORK ZONE EDGE LINE

TRAFFIC PATTERN

WORK AREA

TEMPORARY PAVEMENT CONSTRUCTION

TYPE III BARRICADE

COVERED OR PARTIALLY COVERED EXISTING SIGN

MOT DRUMS

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CML
CHECKED JS

MAINTENANCE OF TRAFFIC
HUNT RD - PHASE 2
HAM-PLAINFIELD RD ROUNDABOUTS

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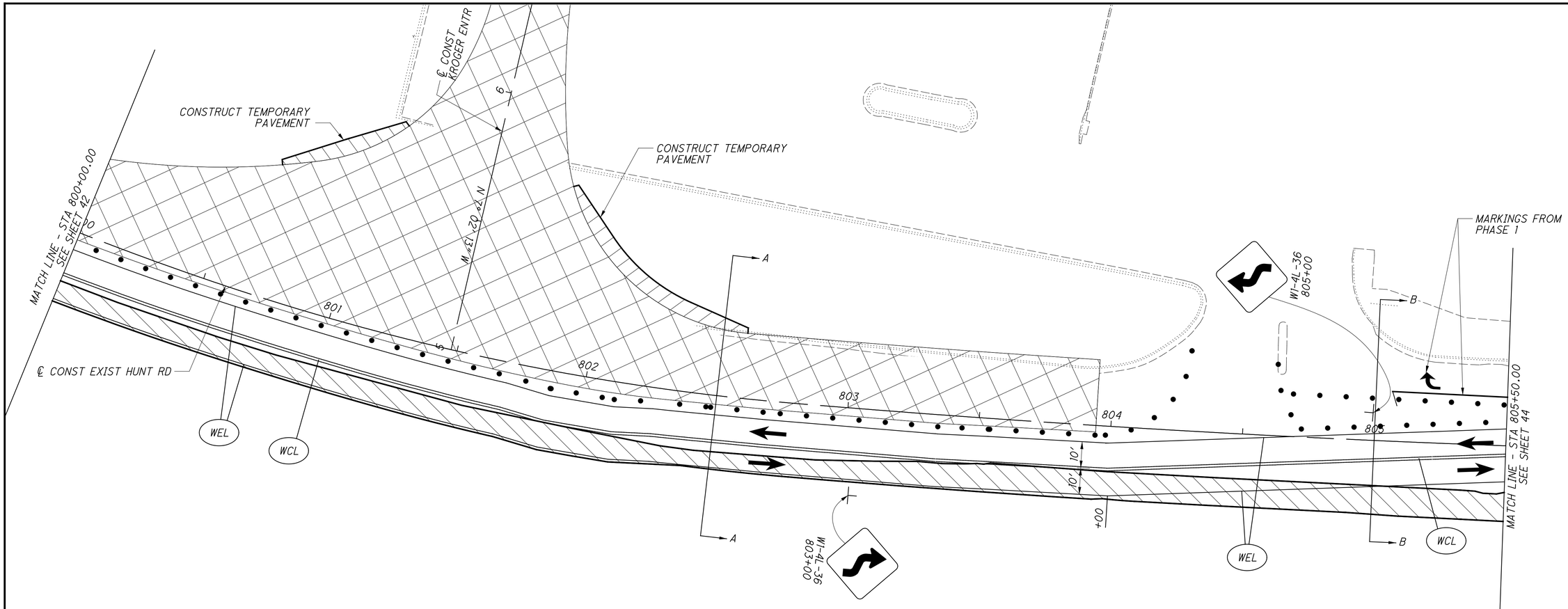

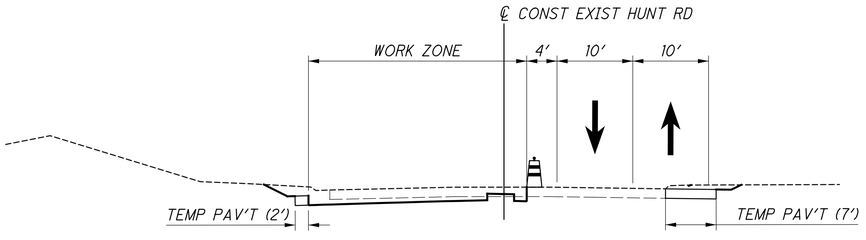

SECTION A-A
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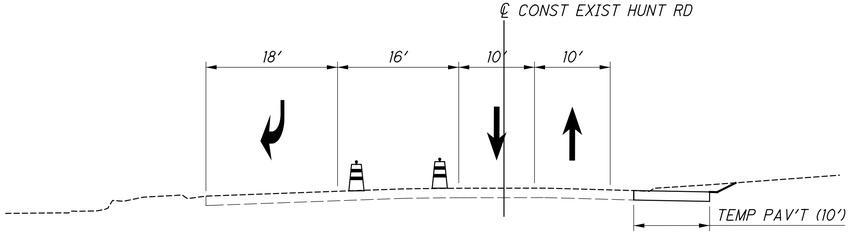

SECTION B-B
STA 805+00.00

LEGEND

WSL	WORK ZONE STOP LINE	→	TRAFFIC PATTERN
WAR	WORK ZONE LANE ARROW		WORK AREA
WCH	WORK ZONE CHANNELIZING LINE		TEMPORARY PAVEMENT CONSTRUCTION
WLL	WORK ZONE LANE LINE		TYPE III BARRICADE
WDL	WORK ZONE DOTTED LINE	ONLY ONLY	COVERED OR PARTIALLY COVERED EXISTING SIGN
WCL	WORK ZONE CENTER LINE	• • •	MOT DRUMS
WEL	WORK ZONE EDGE LINE		

HORIZONTAL SCALE IN FEET
0 10 20 40
CALCULATED CML
CHECKED JS

MAINTENANCE OF TRAFFIC
HUNT RD - PHASE 2
HAM-PLAINFIELD RD ROUNDABOUTS

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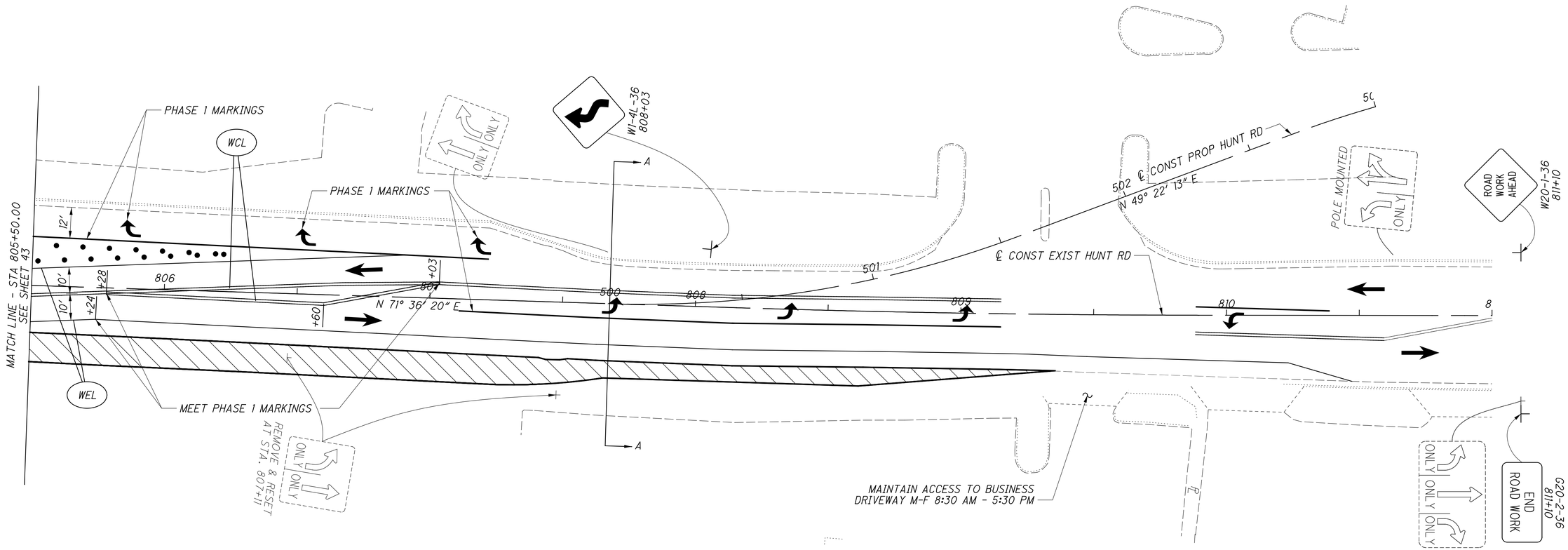

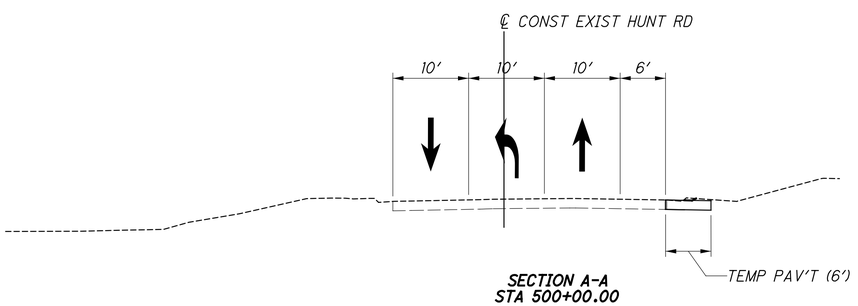

SECTION A-A
STA 500+00.00

LEGEND

WSL	WORK ZONE STOP LINE
WAR	WORK ZONE LANE ARROW
WCH	WORK ZONE CHANNELIZING LINE
WLL	WORK ZONE LANE LINE
WDL	WORK ZONE DOTTED LINE
WCL	WORK ZONE CENTER LINE
WEL	WORK ZONE EDGE LINE

TRAFFIC PATTERN

WORK AREA

TEMPORARY PAVEMENT CONSTRUCTION

TYPE III BARRICADE

COVERED OR PARTIALLY COVERED EXISTING SIGN

MOT DRUMS

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CML
CHECKED JS

MAINTENANCE OF TRAFFIC
HUNT RD - PHASE 2

HAM-PLAINFIELD RD
ROUNDABOUTS

44
335

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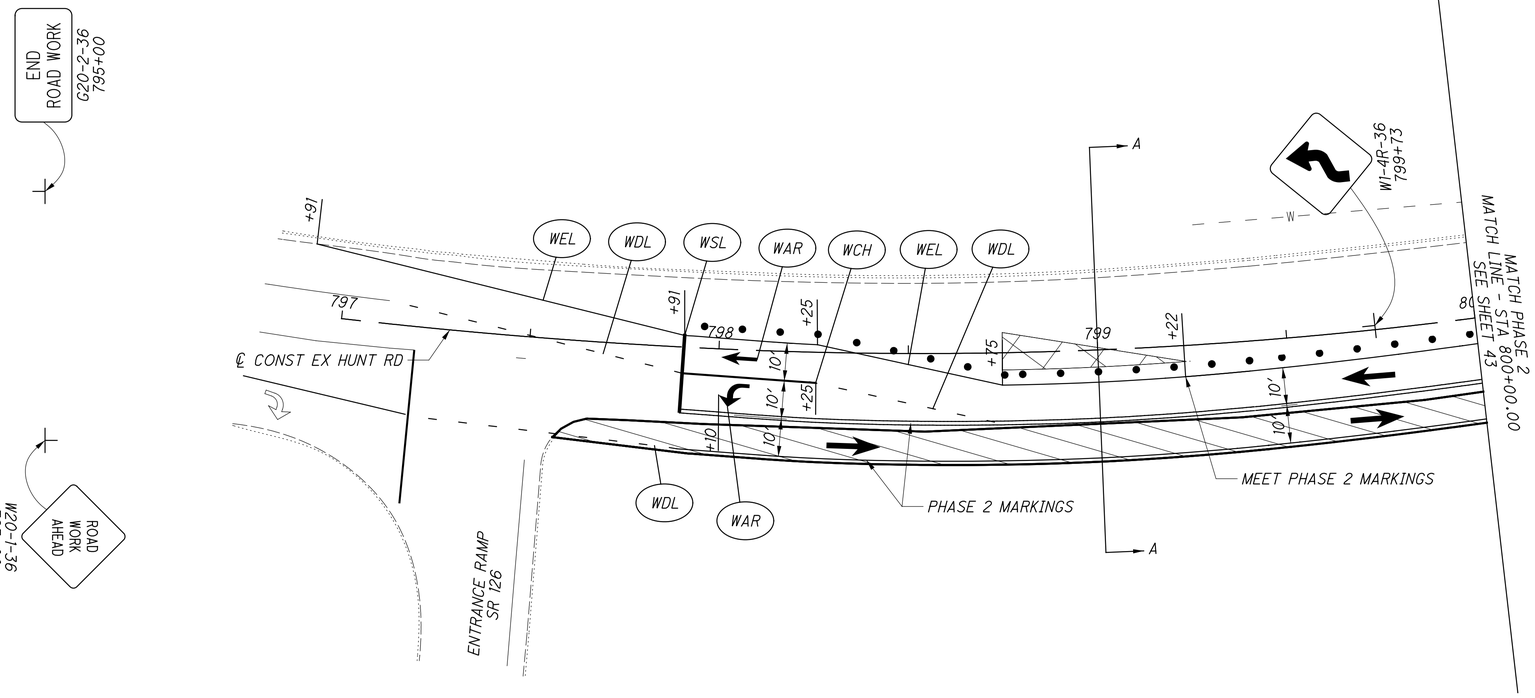

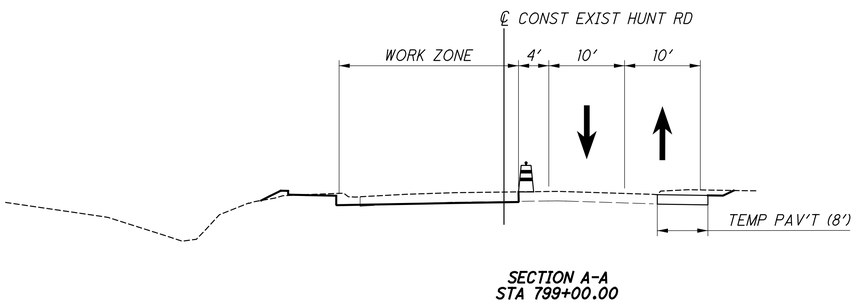

SECTION A-A
STA 799+00.00

NOTE: PHASE 2A WORK TO BE PERFORMED IN DESCRIBED CONFIGURATION TO COMPLETE WORK ON HUNT RD FROM STATION 798+75 TO 799+22. MATCHLINE AT 800+00 TO PRIOR PHASE 2 WORK.

LEGEND

WSL	WORK ZONE STOP LINE
WAR	WORK ZONE LANE ARROW
WCH	WORK ZONE CHANNELIZING LINE
WLL	WORK ZONE LANE LINE
WDL	WORK ZONE DOTTED LINE
WCL	WORK ZONE CENTER LINE
WEL	WORK ZONE EDGE LINE

TRAFFIC PATTERN

WORK AREA

TEMPORARY PAVEMENT CONSTRUCTION

TYPE III BARRICADE

COVERED OR PARTIALLY COVERED EXISTING SIGN

MOT DRUMS

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CML
CHECKED JS

MAINTENANCE OF TRAFFIC
HUNT RD - PHASE 2A

HAM-PLAINFIELD RD
ROUNDABOUTS

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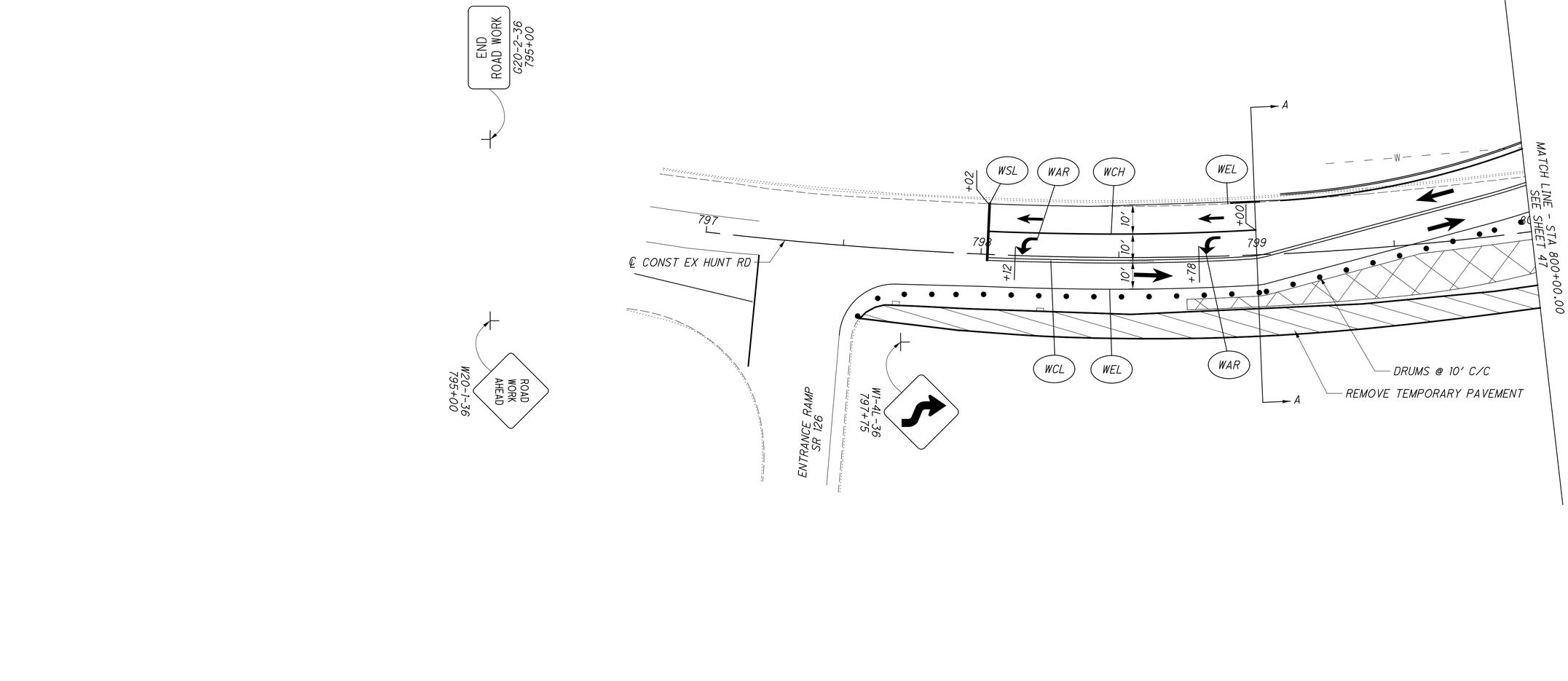

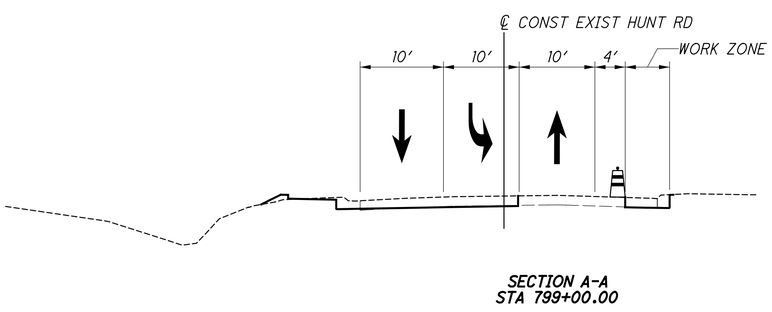

SECTION A-A
STA 799+00.00

LEGEND

WSL	WORK ZONE STOP LINE
WAR	WORK ZONE LANE ARROW
WCH	WORK ZONE CHANNELIZING LINE
WLL	WORK ZONE LANE LINE
WDL	WORK ZONE DOTTED LINE
WCL	WORK ZONE CENTER LINE
WEL	WORK ZONE EDGE LINE

TRAFFIC PATTERN

WORK AREA

TEMPORARY PAVEMENT CONSTRUCTION

TYPE III BARRICADE

COVERED OR PARTIALLY COVERED EXISTING SIGN

MOT DRUMS

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CML
CHECKED JS

MAINTENANCE OF TRAFFIC
HUNT RD - PHASE 3
HAM-PLAINFIELD RD ROUNDABOUTS

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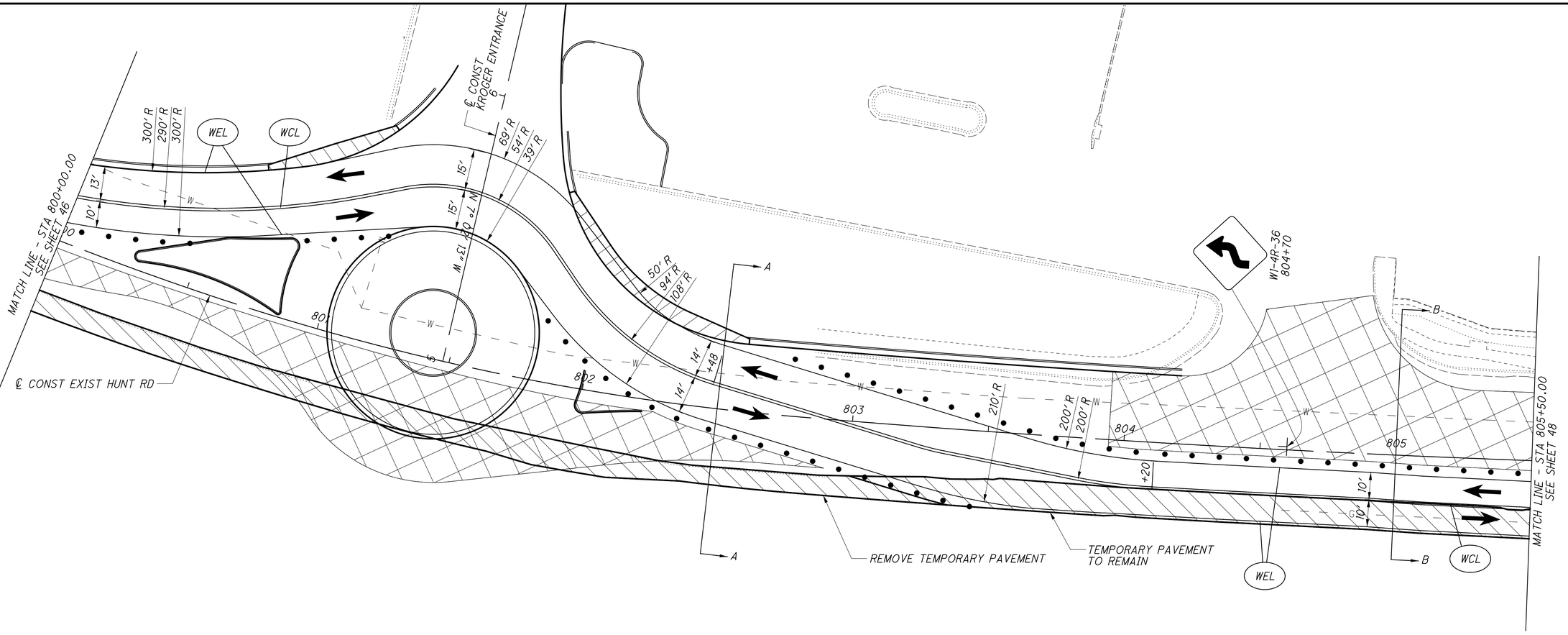
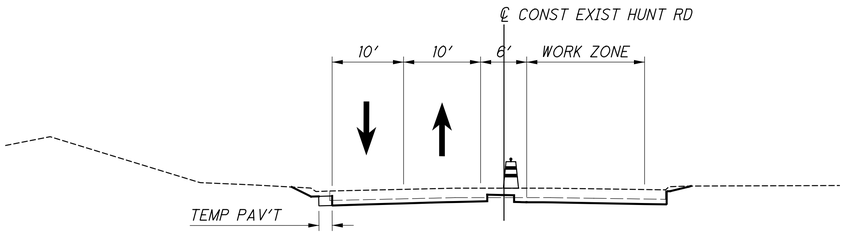
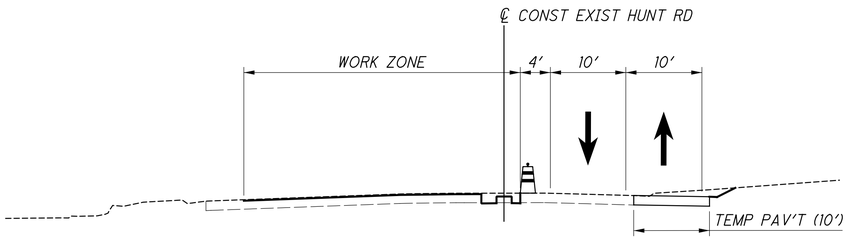




SECTION A-A
STA 802+50.00



SECTION B-B
STA 805+00.00

LEGEND

WSL	WORK ZONE STOP LINE	→	TRAFFIC PATTERN
WAR	WORK ZONE LANE ARROW		WORK AREA
WCH	WORK ZONE CHANNELIZING LINE		TEMPORARY PAVEMENT CONSTRUCTION
WLL	WORK ZONE LANE LINE		TYPE III BARRICADE
WDL	WORK ZONE DOTTED LINE	ONLY ONLY	COVERED OR PARTIALLY COVERED EXISTING SIGN
WCL	WORK ZONE CENTER LINE	• • •	MOT DRUMS
WEL	WORK ZONE EDGE LINE		

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CML
CHECKED JS

MAINTENANCE OF TRAFFIC
HUNT RD - PHASE 3
HAM-PLAINFIELD RD ROUNDABOUTS

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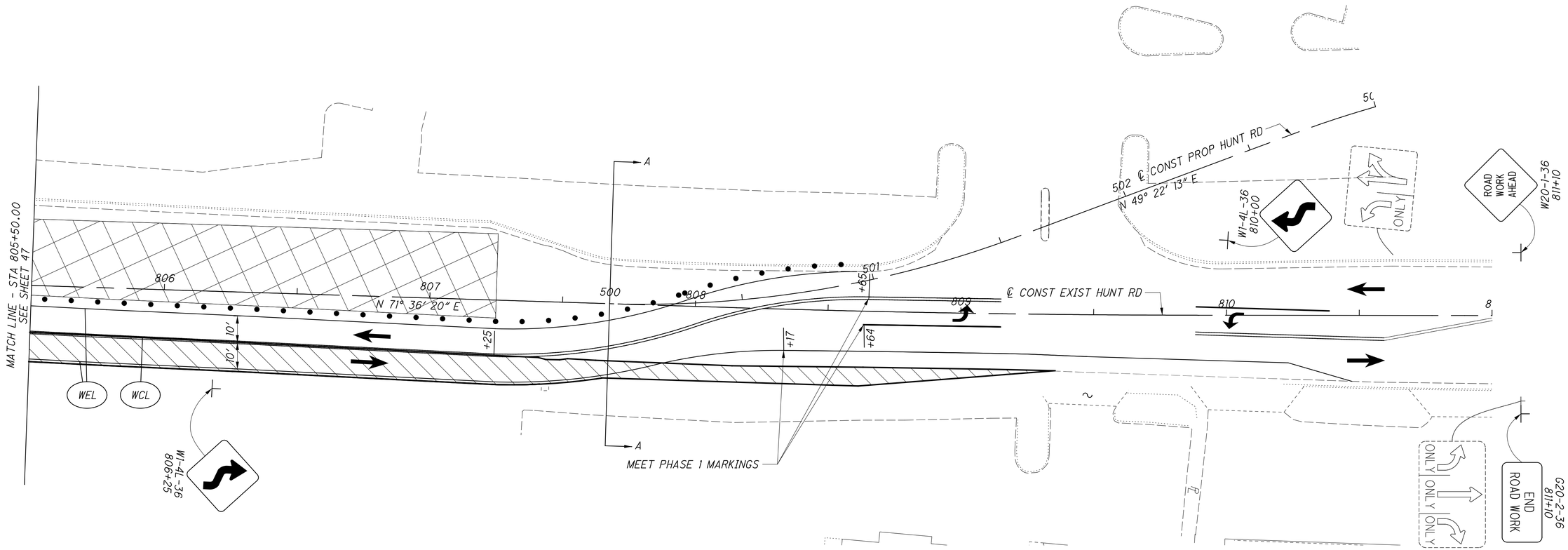

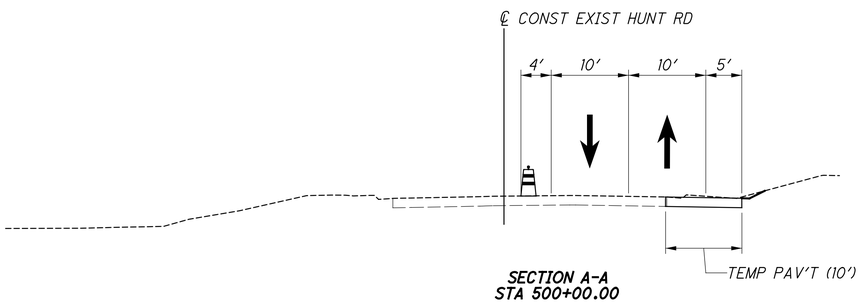

SECTION A-A
STA 500+00.00

LEGEND

WSL	WORK ZONE STOP LINE
WAR	WORK ZONE LANE ARROW
WCH	WORK ZONE CHANNELIZING LINE
WLL	WORK ZONE LANE LINE
WDL	WORK ZONE DOTTED LINE
WCL	WORK ZONE CENTER LINE
WEL	WORK ZONE EDGE LINE

TRAFFIC PATTERN

WORK AREA

TEMPORARY PAVEMENT CONSTRUCTION

TYPE III BARRICADE

COVERED OR PARTIALLY COVERED EXISTING SIGN

MOT DRUMS

N

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CML
CHECKED JS

MAINTENANCE OF TRAFFIC
HUNT RD - PHASE 3

HAM-PLAINFIELD RD ROUNDABOUTS

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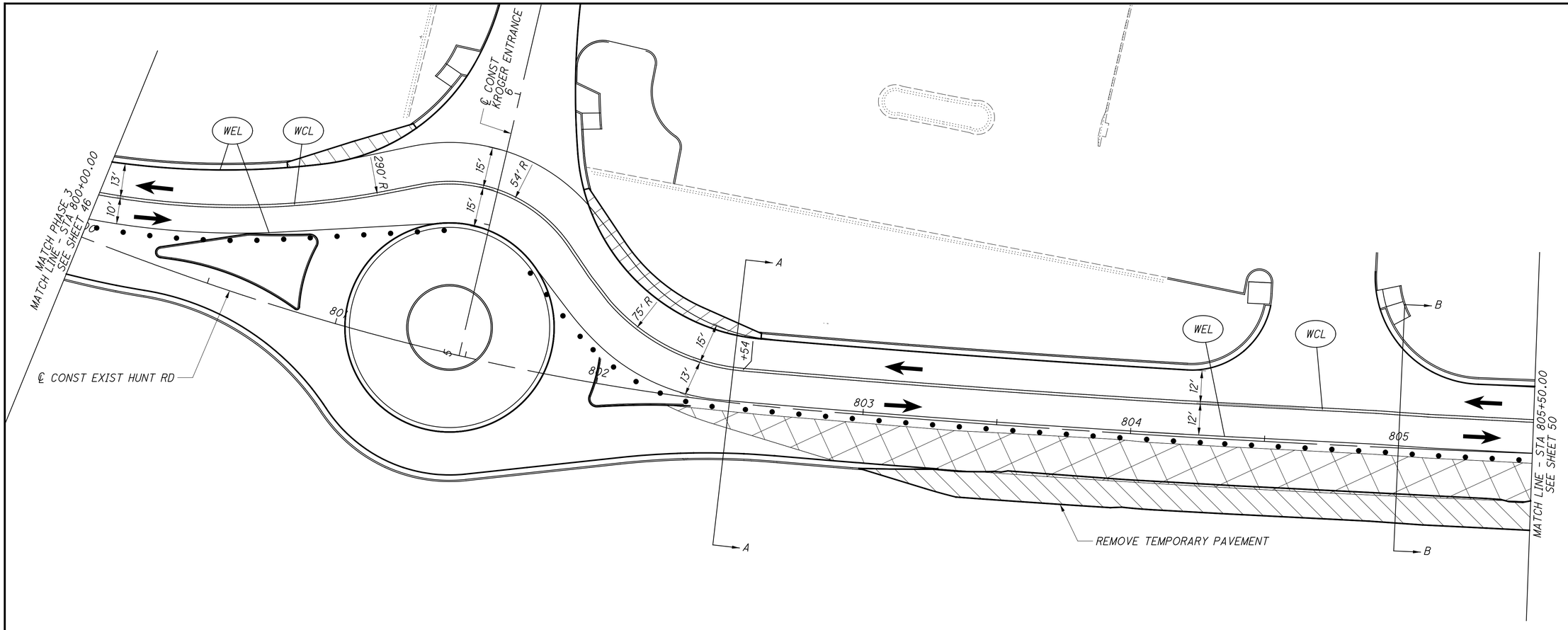
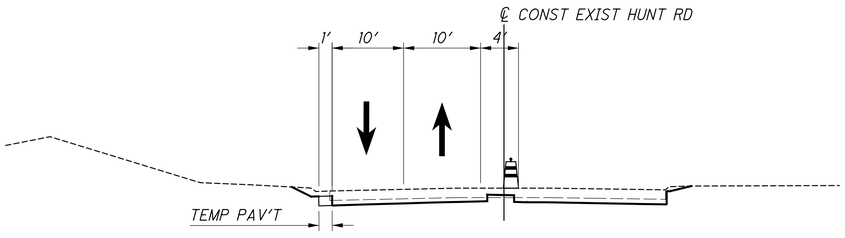
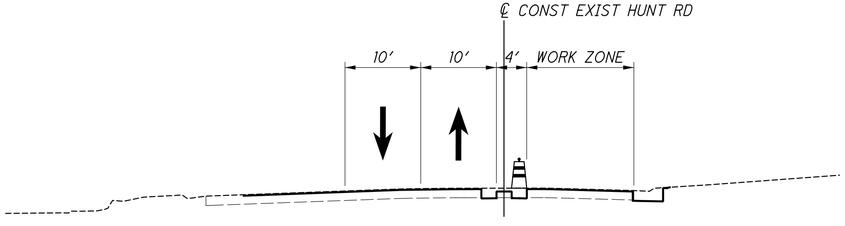




SECTION A-A
STA 802+50.00



SECTION B-B
STA 805+00.00

NOTE: PHASE 3A WORK TO BE PERFORMED IN DESCRIBED CONFIGURATION TO COMPLETE WORK FROM STATION 802+25 TO 807+25. MATCHLINE AT 800+00 TO PRIOR PHASE 3 WORK.

LEGEND

WSL	WORK ZONE STOP LINE	→	TRAFFIC PATTERN
WAR	WORK ZONE LANE ARROW		WORK AREA
WCH	WORK ZONE CHANNELIZING LINE		TEMPORARY PAVEMENT CONSTRUCTION
WLL	WORK ZONE LANE LINE		TYPE III BARRICADE
WDL	WORK ZONE DOTTED LINE	ONLY ONLY	COVERED OR PARTIALLY COVERED EXISTING SIGN
WCL	WORK ZONE CENTER LINE	• • •	MOT DRUMS
WEL	WORK ZONE EDGE LINE		

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CML
CHECKED JS

MAINTENANCE OF TRAFFIC
HUNT RD - PHASE 3A

HAM-PLAINFIELD RD
ROUNDABOUTS

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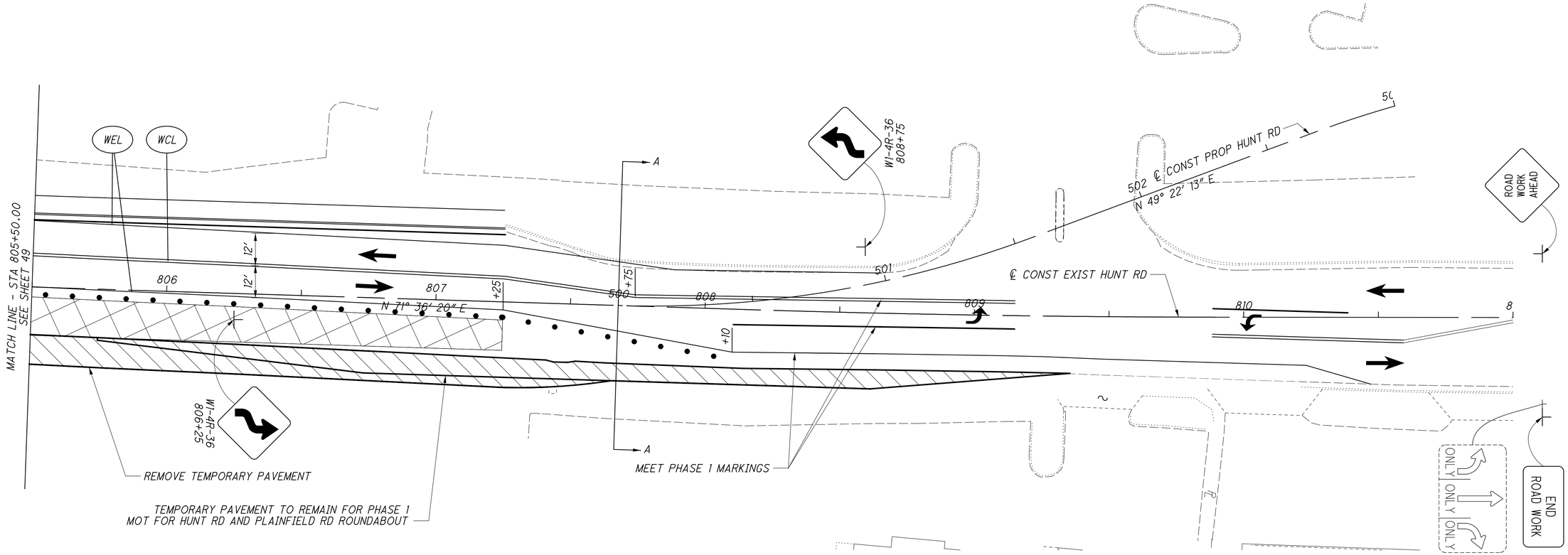

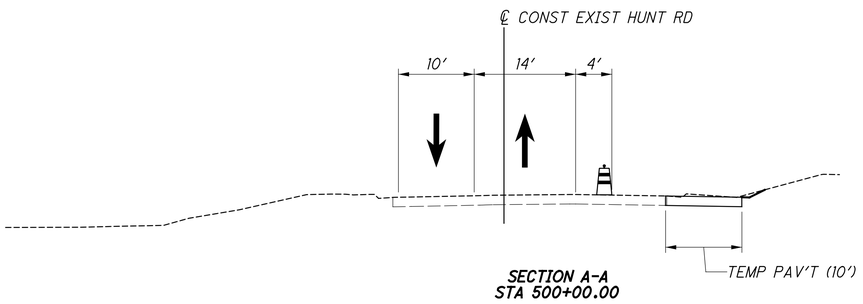

SECTION A-A
STA 500+00.00

LEGEND

WSL	WORK ZONE STOP LINE
WAR	WORK ZONE LANE ARROW
WCH	WORK ZONE CHANNELIZING LINE
WLL	WORK ZONE LANE LINE
WDL	WORK ZONE DOTTED LINE
WCL	WORK ZONE CENTER LINE
WEL	WORK ZONE EDGE LINE

TRAFFIC PATTERN

WORK AREA

TEMPORARY PAVEMENT CONSTRUCTION

TYPE III BARRICADE

COVERED OR PARTIALLY COVERED EXISTING SIGN

MOT DRUMS

N

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CML
CHECKED JS

MAINTENANCE OF TRAFFIC
HUNT RD - PHASE 3A

HAM-PLAINFIELD RD ROUNDABOUTS

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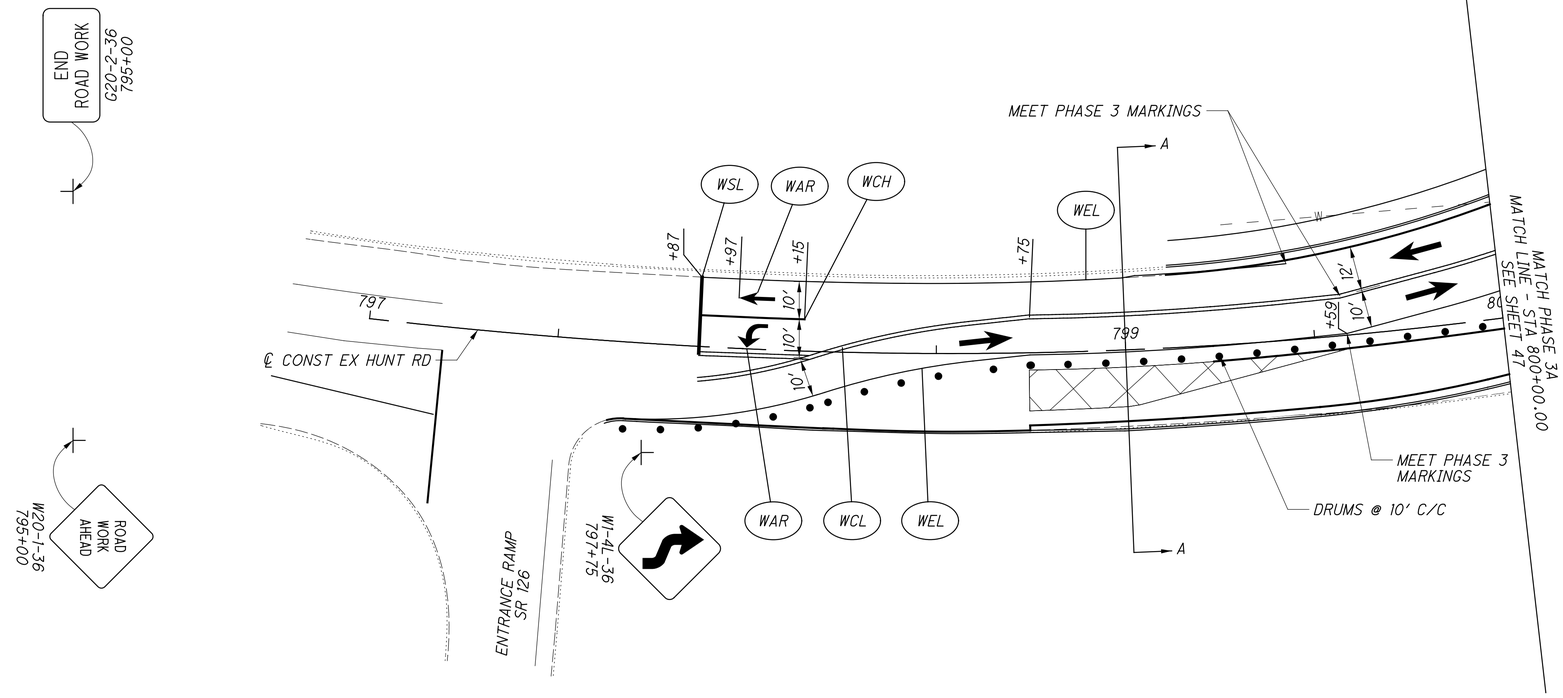

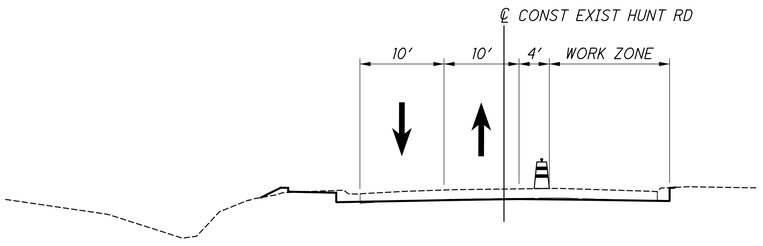

SECTION A-A
STA 799+00.00

NOTE: PHASE 3B WORK TO BE PERFORMED IN DESCRIBED CONFIGURATION TO COMPLETE WORK FROM STATION 798+75 TO 799+60. MATCHLINE AT 800+00 TO PRIOR PHASE 3A WORK.

LEGEND

WSL	WORK ZONE STOP LINE	→	TRAFFIC PATTERN
WAR	WORK ZONE LANE ARROW		WORK AREA
WCH	WORK ZONE CHANNELIZING LINE		TEMPORARY PAVEMENT CONSTRUCTION
WLL	WORK ZONE LANE LINE		TYPE III BARRICADE
WDL	WORK ZONE DOTTED LINE		COVERED OR PARTIALLY COVERED EXISTING SIGN
WCL	WORK ZONE CENTER LINE		MOT DRUMS
WEL	WORK ZONE EDGE LINE		

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CML
CHECKED JS

MAINTENANCE OF TRAFFIC
HUNT RD - PHASE 3B

HAM-PLAINFIELD RD
ROUNDABOUTS

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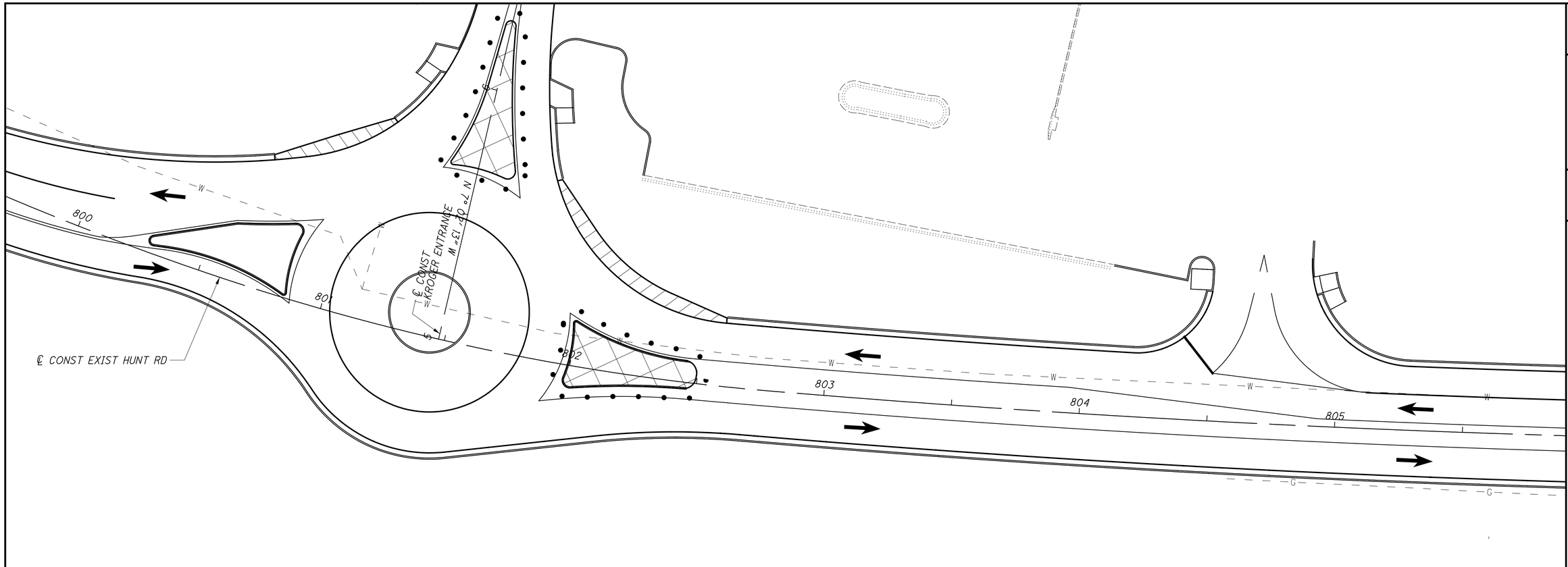

NOTE: ROUNDABOUT FUNCTIONAL AFTER PHASE 3 CONSTRUCTION ACTIVITIES. CONSTRUCT PROPOSED PAVEMENT MARKINGS.

LEGEND

WSL	WORK ZONE STOP LINE
WAR	WORK ZONE LANE ARROW
WCH	WORK ZONE CHANNELIZING LINE
WLL	WORK ZONE LANE LINE
WDL	WORK ZONE DOTTED LINE
WCL	WORK ZONE CENTER LINE
WEL	WORK ZONE EDGE LINE

TRAFFIC PATTERN

WORK AREA

TEMPORARY PAVEMENT CONSTRUCTION

TYPE III BARRICADE

COVERED OR PARTIALLY COVERED EXISTING SIGN

MOT DRUMS

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CML
CHECKED JS

MAINTENANCE OF TRAFFIC
HUNT RD - PHASE 4
HAM-PLAINFIELD RD ROUNDABOUTS

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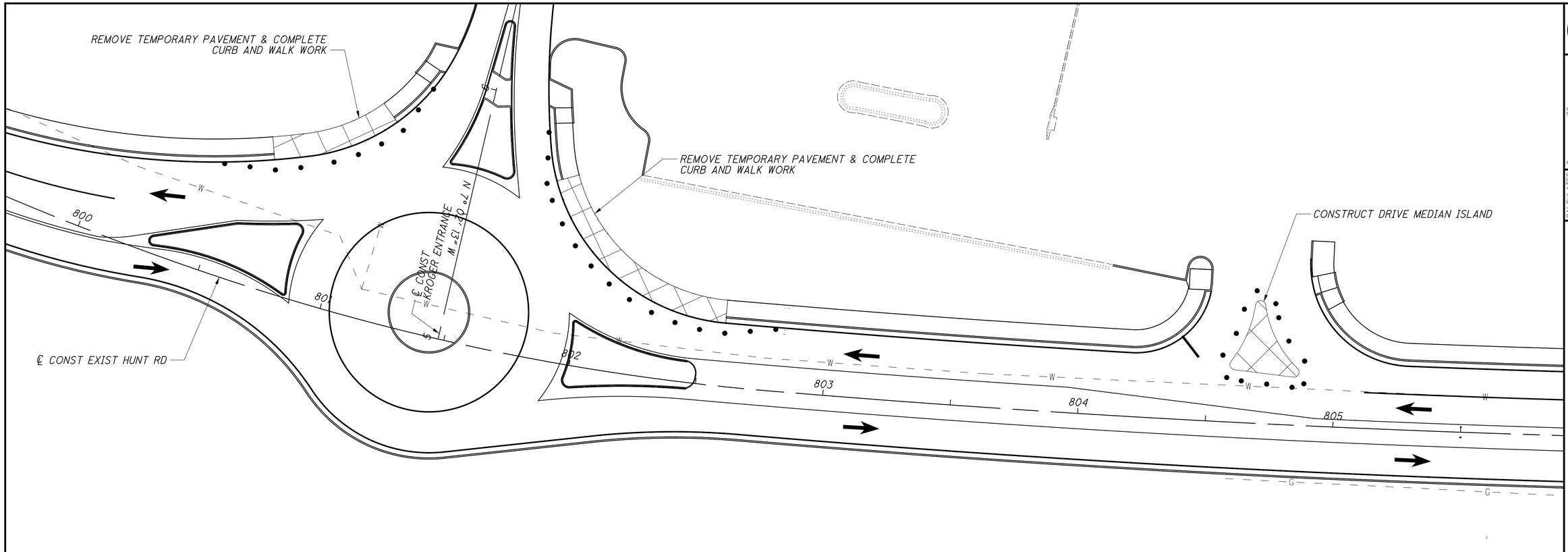

NOTE: ROUNDABOUT FUNCTIONAL AFTER PHASE 3 CONSTRUCTION ACTIVITIES.

LEGEND

WSL	WORK ZONE STOP LINE	→	TRAFFIC PATTERN
WAR	WORK ZONE LANE ARROW		WORK AREA
WCH	WORK ZONE CHANNELIZING LINE		TEMPORARY PAVEMENT CONSTRUCTION
WLL	WORK ZONE LANE LINE		TYPE III BARRICADE
WDL	WORK ZONE DOTTED LINE	ONLY ONLY	COVERED OR PARTIALLY COVERED EXISTING SIGN
WCL	WORK ZONE CENTER LINE	• • •	MOT DRUMS
WEL	WORK ZONE EDGE LINE		

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CML
CHECKED JS

MAINTENANCE OF TRAFFIC
HUNT RD - PHASE 4A
HAM-PLAINFIELD RD ROUNDABOUTS

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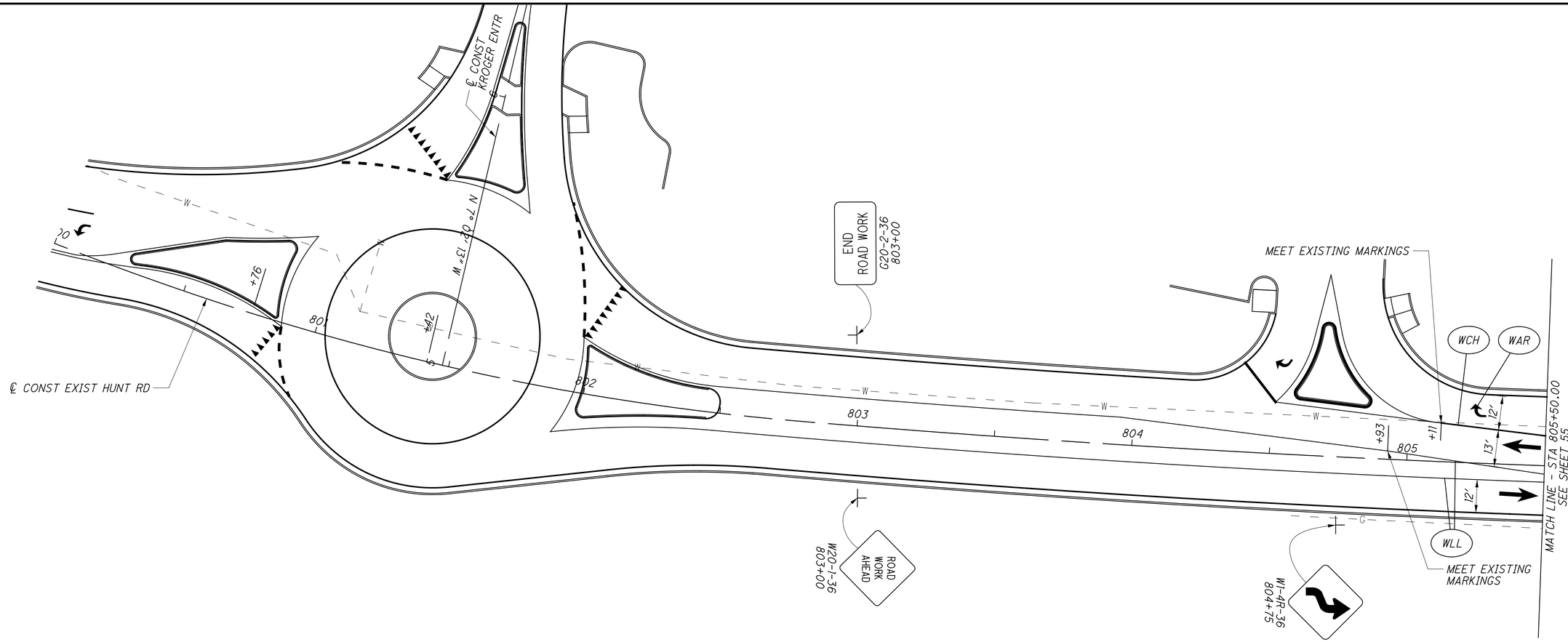

NOTE: HUNT RD ROUNDABOUT AT KROGER ENTRANCE CONSTRUCTION SHALL BE OPERATIONAL PRIOR TO BEGINNING PLAINFIELD RD & HUNT RD ROUNDABOUT CONSTRUCTION ACTIVITIES.

LEGEND

WSL	WORK ZONE STOP LINE	→	TRAFFIC PATTERN
WAR	WORK ZONE LANE ARROW		WORK AREA
WCH	WORK ZONE CHANNELIZING LINE		TEMPORARY PAVEMENT CONSTRUCTION
WLL	WORK ZONE LANE LINE		TYPE III BARRICADE
WDL	WORK ZONE DOTTED LINE	ONLY ONLY	COVERED OR PARTIALLY COVERED EXISTING SIGN
WCL	WORK ZONE CENTER LINE	• • •	MOT DRUMS
WEL	WORK ZONE EDGE LINE		

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CML
CHECKED JS

MAINTENANCE OF TRAFFIC
PLAINFIELD RD & HUNT RD - PHASE 1

HAM-PLAINFIELD RD ROUNDABOUTS

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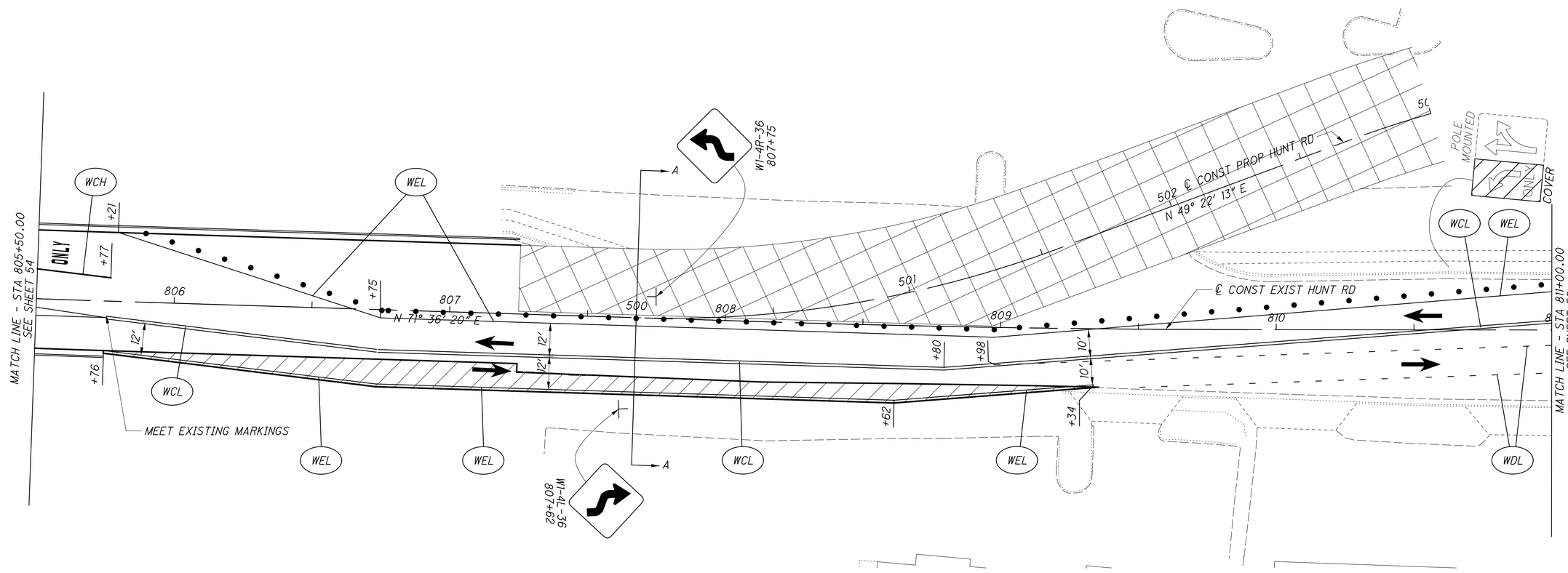

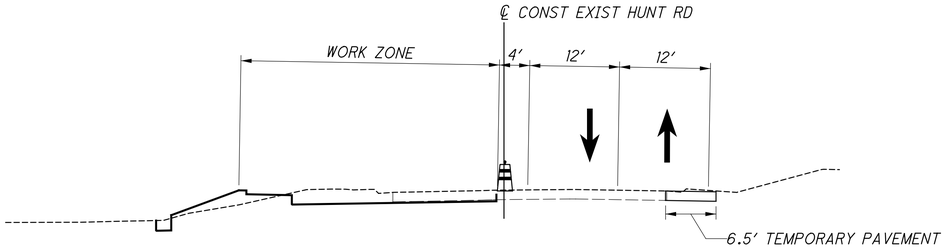

SECTION A-A
STA 500+00.00

LEGEND

WSL	WORK ZONE STOP LINE	→	TRAFFIC PATTERN
WAR	WORK ZONE LANE ARROW		WORK AREA
WCH	WORK ZONE CHANNELIZING LINE		TEMPORARY PAVEMENT CONSTRUCTION
WLL	WORK ZONE LANE LINE		TYPE III BARRICADE
WDL	WORK ZONE DOTTED LINE	ONLY ONLY	COVERED OR PARTIALLY COVERED EXISTING SIGN
WCL	WORK ZONE CENTER LINE	• • •	MOT DRUMS
WEL	WORK ZONE EDGE LINE		

N

0 10 20 40 HORIZONTAL SCALE IN FEET

CALCULATED CML | CHECKED JS

MAINTENANCE OF TRAFFIC
PLAINFIELD RD & HUNT RD - PHASE 1

HAM-PLAINFIELD RD ROUNDABOUTS

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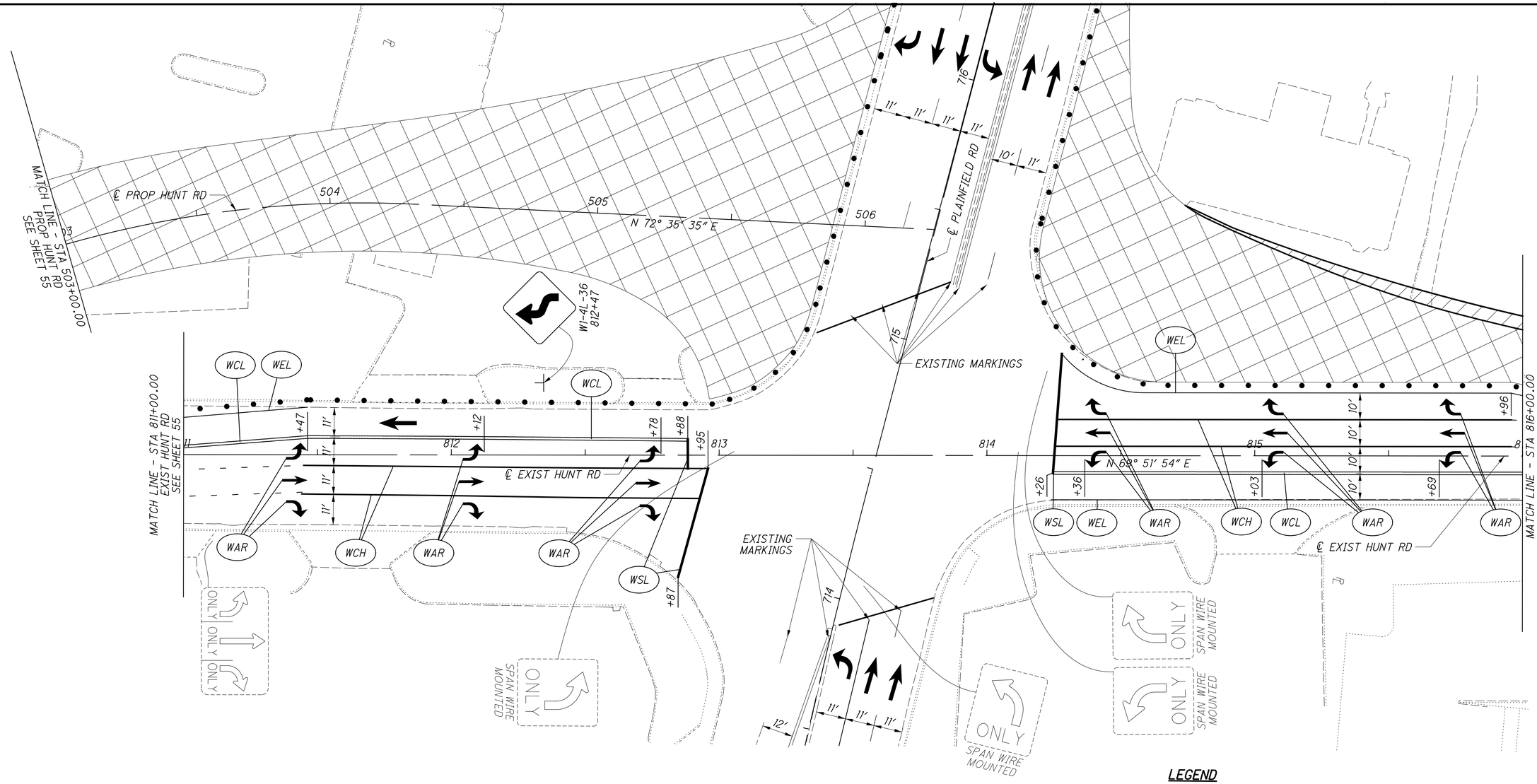

LEGEND

WSL	WORK ZONE STOP LINE
WAR	WORK ZONE LANE ARROW
WCH	WORK ZONE CHANNELIZING LINE
WLL	WORK ZONE LANE LINE
WDL	WORK ZONE DOTTED LINE
WCL	WORK ZONE CENTER LINE
WEL	WORK ZONE EDGE LINE

TRAFFIC PATTERN

WORK AREA

TEMPORARY PAVEMENT CONSTRUCTION

TYPE III BARRICADE

COVERED OR PARTIALLY COVERED EXISTING SIGN

MOT DRUMS

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CML
CHECKED JS

MAINTENANCE OF TRAFFIC
PLAINFIELD RD & HUNT RD - PHASE 1

HAM-PLAINFIELD RD ROUNDABOUTS

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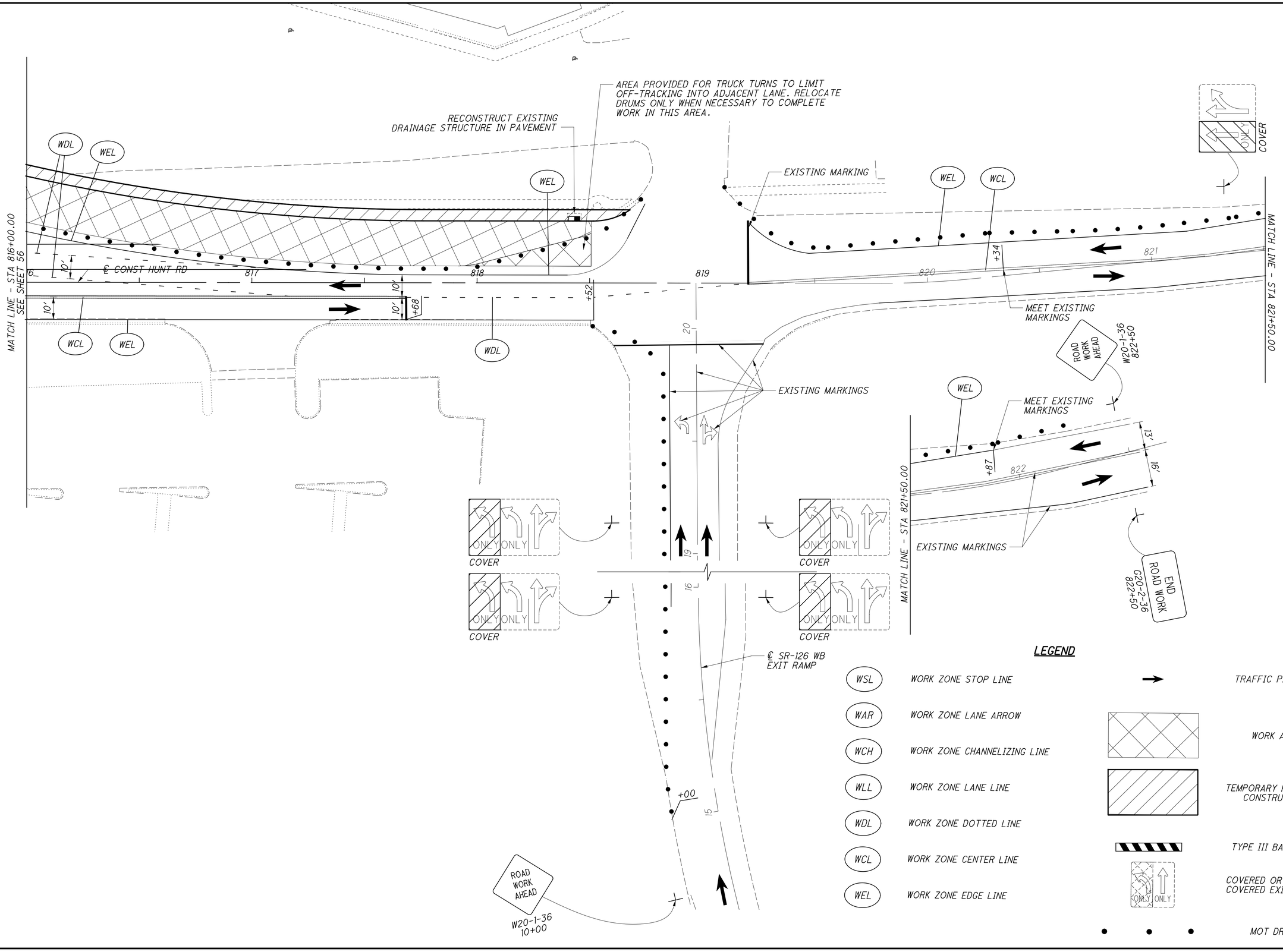

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HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CML
CHECKED JS

MAINTENANCE OF TRAFFIC
PLAINFIELD RD & HUNT RD - PHASE 1

HAM-PLAINFIELD RD ROUNDABOUTS

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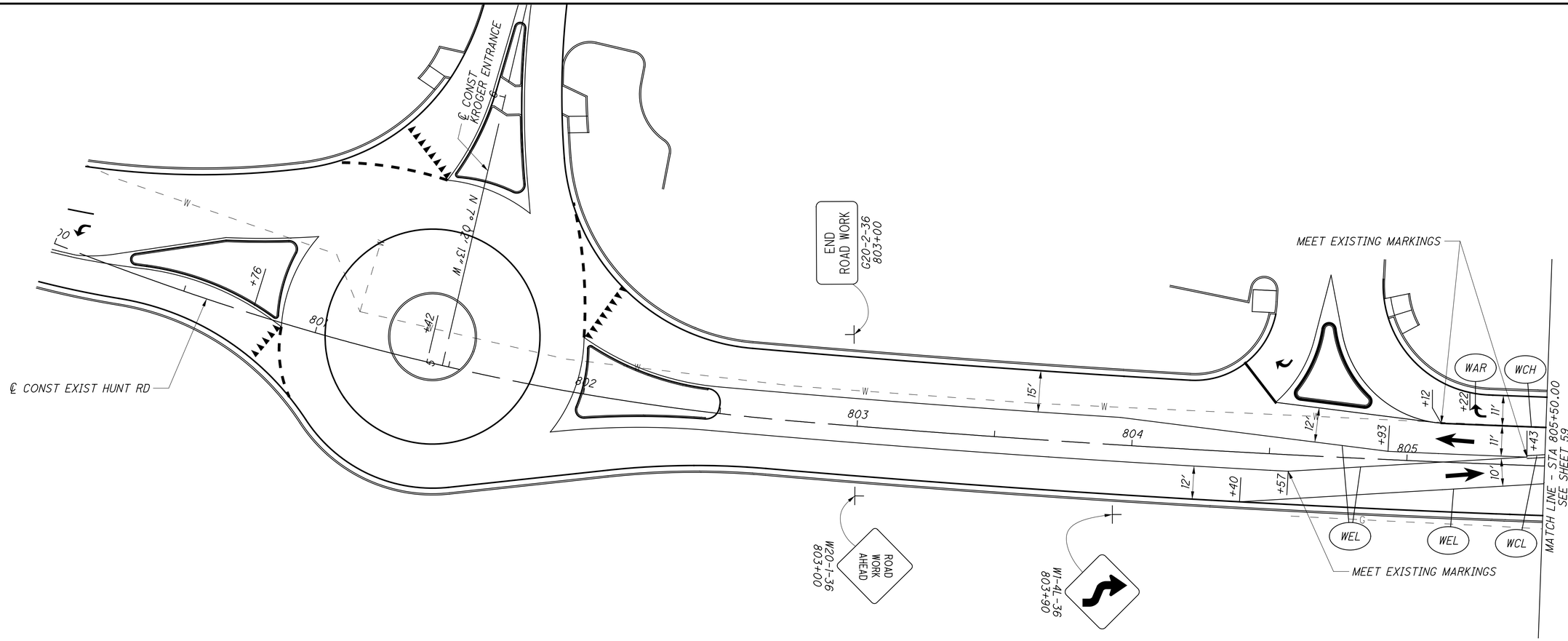

LEGEND

WSL	WORK ZONE STOP LINE	→	TRAFFIC PATTERN
WAR	WORK ZONE LANE ARROW		WORK AREA
WCH	WORK ZONE CHANNELIZING LINE		TEMPORARY PAVEMENT CONSTRUCTION
WLL	WORK ZONE LANE LINE		TYPE III BARRICADE
WDL	WORK ZONE DOTTED LINE	ONLY ONLY	COVERED OR PARTIALLY COVERED EXISTING SIGN
WCL	WORK ZONE CENTER LINE	• • •	MOT DRUMS
WEL	WORK ZONE EDGE LINE		

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CML
CHECKED JS

MAINTENANCE OF TRAFFIC
PLAINFIELD RD & HUNT RD - PHASE 2

HAM-PLAINFIELD RD
ROUNDABOUTS

58
335

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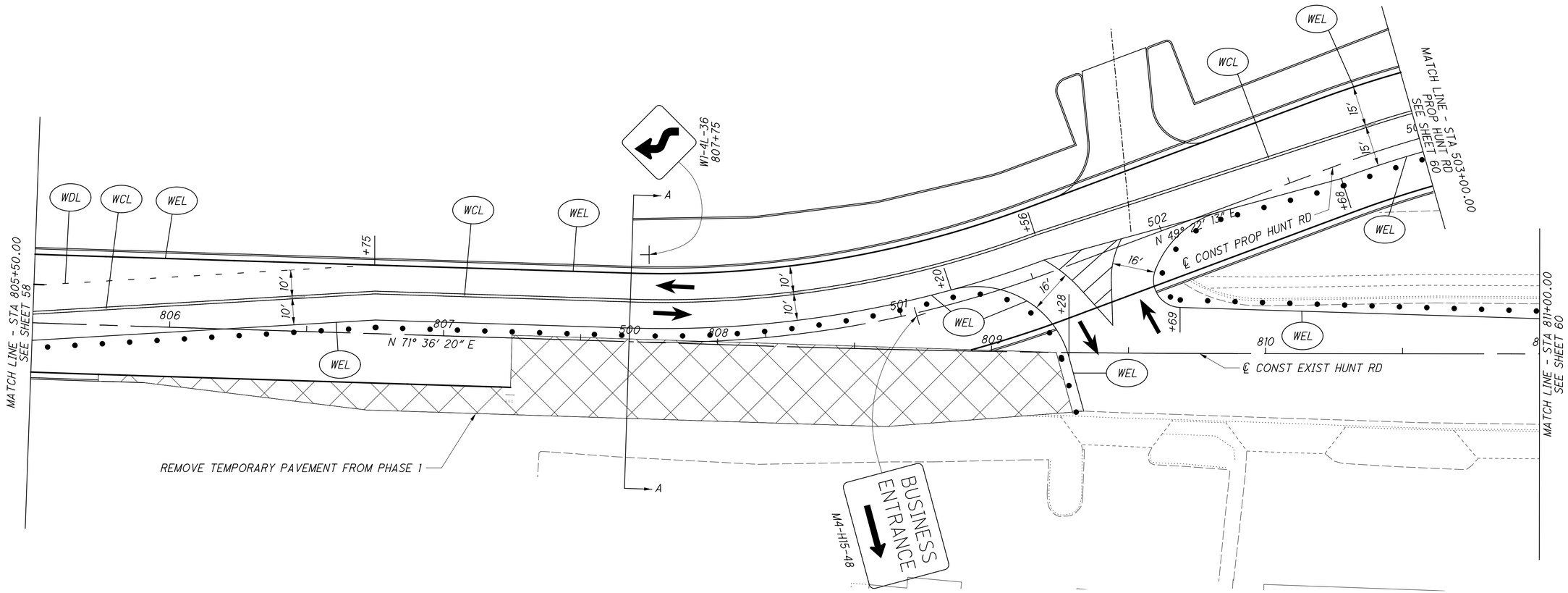

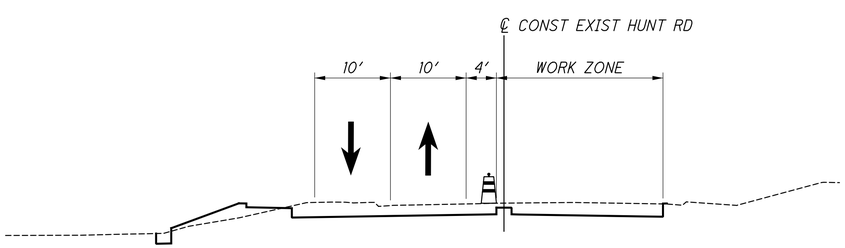

SECTION A-A
STA 500+00.00

LEGEND

WSL	WORK ZONE STOP LINE
WAR	WORK ZONE LANE ARROW
WCH	WORK ZONE CHANNELIZING LINE
WLL	WORK ZONE LANE LINE
WDL	WORK ZONE DOTTED LINE
WCL	WORK ZONE CENTER LINE
WEL	WORK ZONE EDGE LINE

TRAFFIC PATTERN

WORK AREA

TEMPORARY PAVEMENT CONSTRUCTION

TYPE III BARRICADE

COVERED OR PARTIALLY COVERED EXISTING SIGN

MOT DRUMS

N

0 10 20 40
HORIZONTAL SCALE IN FEET

CALCULATED CML
CHECKED JS

MAINTENANCE OF TRAFFIC
PLAINFIELD RD & HUNT RD - PHASE 2

HAM-PLAINFIELD RD ROUNDABOUTS

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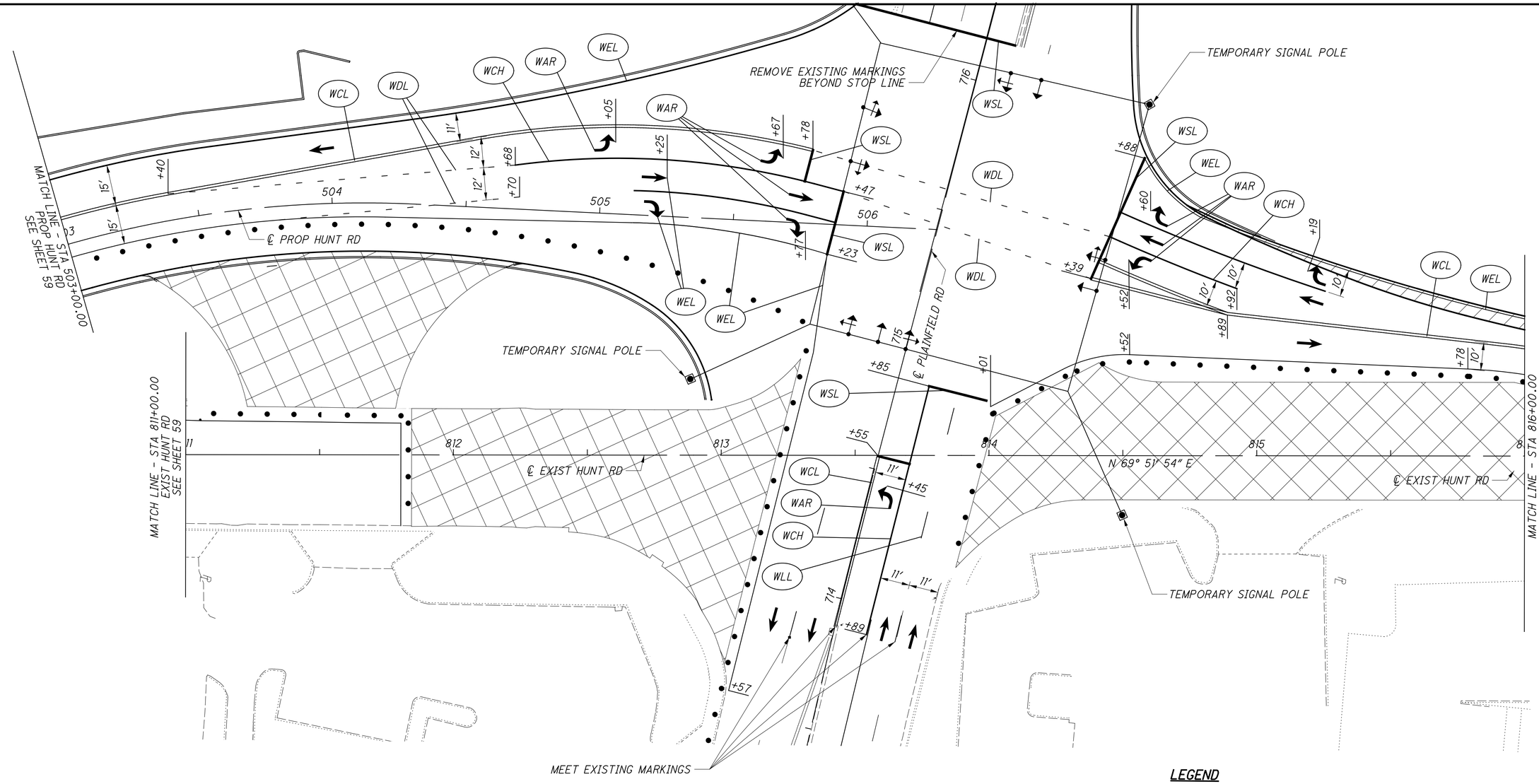

LEGEND

WSL	WORK ZONE STOP LINE	→	TRAFFIC PATTERN
WAR	WORK ZONE LANE ARROW		WORK AREA
WCH	WORK ZONE CHANNELIZING LINE		TEMPORARY PAVEMENT CONSTRUCTION
WLL	WORK ZONE LANE LINE		TYPE III BARRICADE
WDL	WORK ZONE DOTTED LINE	ONLY ONLY	COVERED OR PARTIALLY COVERED EXISTING SIGN
WCL	WORK ZONE CENTER LINE	• • •	MOT DRUMS
WEL	WORK ZONE EDGE LINE		

CROSS REFERENCES

FOR TEMPORARY SIGNAL PLAN, SEE SHEET 95.
FOR TEMPORARY SIGNAL DETAILS, SEE SHEET 97.

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CML
CHECKED JS

MAINTENANCE OF TRAFFIC
PLAINFIELD RD & HUNT RD - PHASE 2

HAM-PLAINFIELD RD ROUNDABOUTS

60
335

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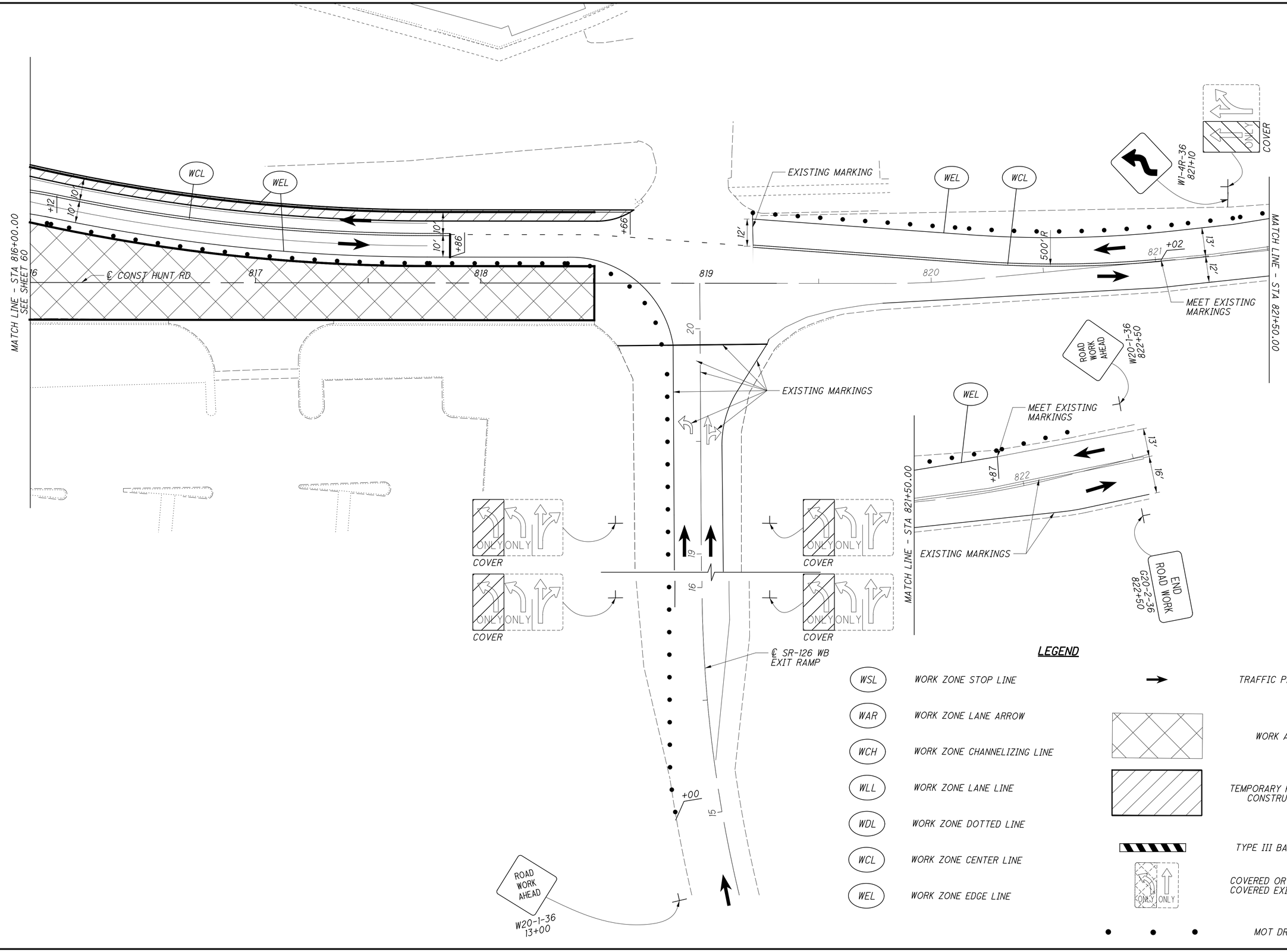

LEGEND

WSL	WORK ZONE STOP LINE	→	TRAFFIC PATTERN
WAR	WORK ZONE LANE ARROW		WORK AREA
WCH	WORK ZONE CHANNELIZING LINE		TEMPORARY PAVEMENT CONSTRUCTION
WLL	WORK ZONE LANE LINE		TYPE III BARRICADE
WDL	WORK ZONE DOTTED LINE	ONLY ONLY	COVERED OR PARTIALLY COVERED EXISTING SIGN
WCL	WORK ZONE CENTER LINE	• • •	MOT DRUMS
WEL	WORK ZONE EDGE LINE		

N

0 10 20 40
HORIZONTAL SCALE IN FEET

CALCULATED CML
CHECKED JS

MAINTENANCE OF TRAFFIC
PLAINFIELD RD & HUNT RD - PHASE 2

HAM-PLAINFIELD RD ROUNDABOUTS

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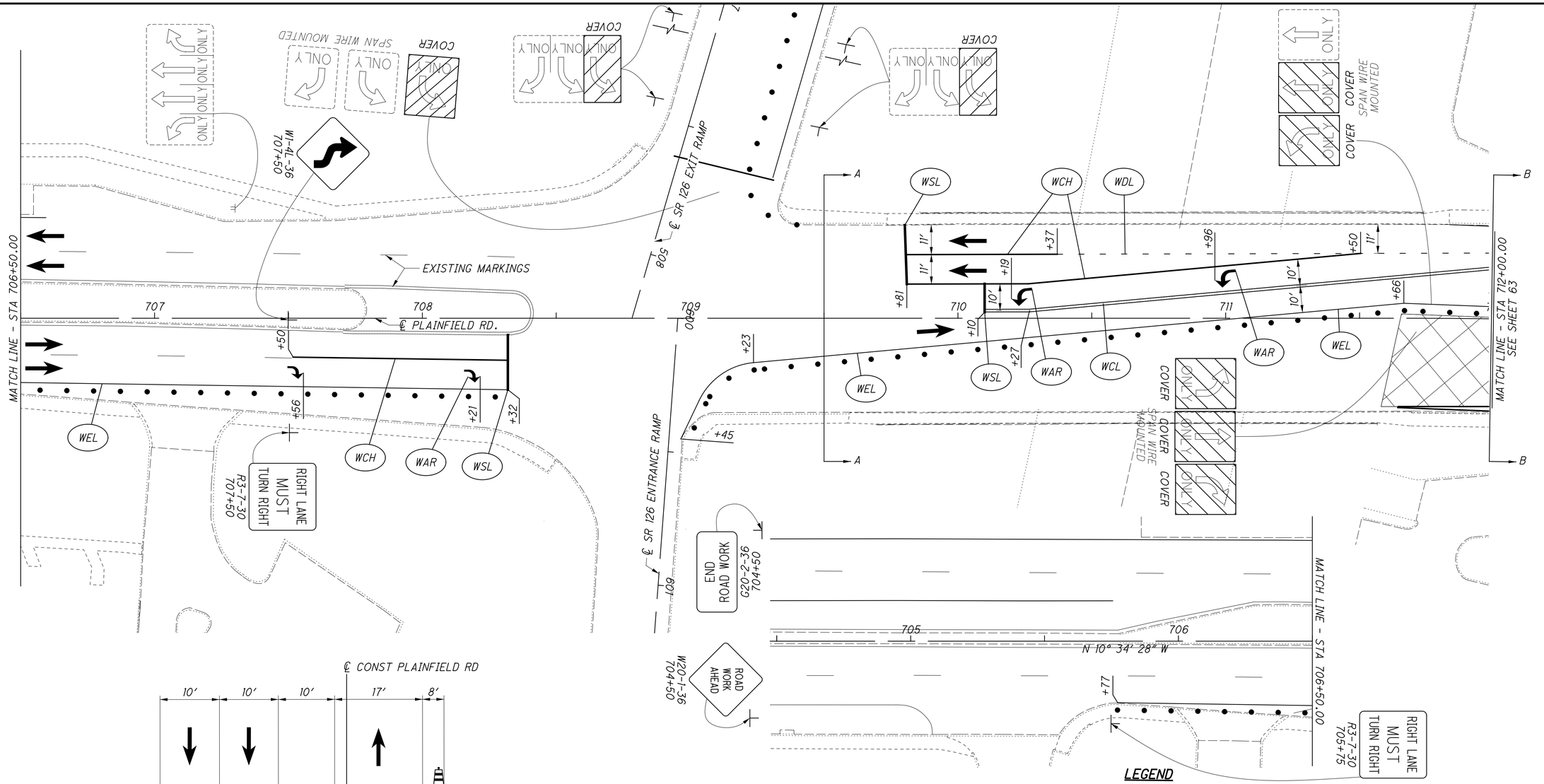
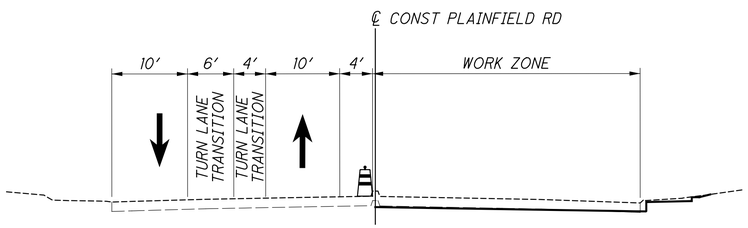


SECTION A-A
STA 709+50.00



SECTION B-B
STA 712+00.00

LEGEND

WSL	WORK ZONE STOP LINE	→	TRAFFIC PATTERN
WAR	WORK ZONE LANE ARROW		WORK AREA
WCH	WORK ZONE CHANNELIZING LINE		TEMPORARY PAVEMENT CONSTRUCTION
WLL	WORK ZONE LANE LINE		TYPE III BARRICADE
WDL	WORK ZONE DOTTED LINE	ONLY ONLY	COVERED OR PARTIALLY COVERED EXISTING SIGN
WCL	WORK ZONE CENTER LINE	• • •	MOT DRUMS
WEL	WORK ZONE EDGE LINE		

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CML
CHECKED JS

MAINTENANCE OF TRAFFIC
PLAINFIELD RD & HUNT RD - PHASE 3

HAM-PLAINFIELD RD
ROUNDABOUTS

62
335

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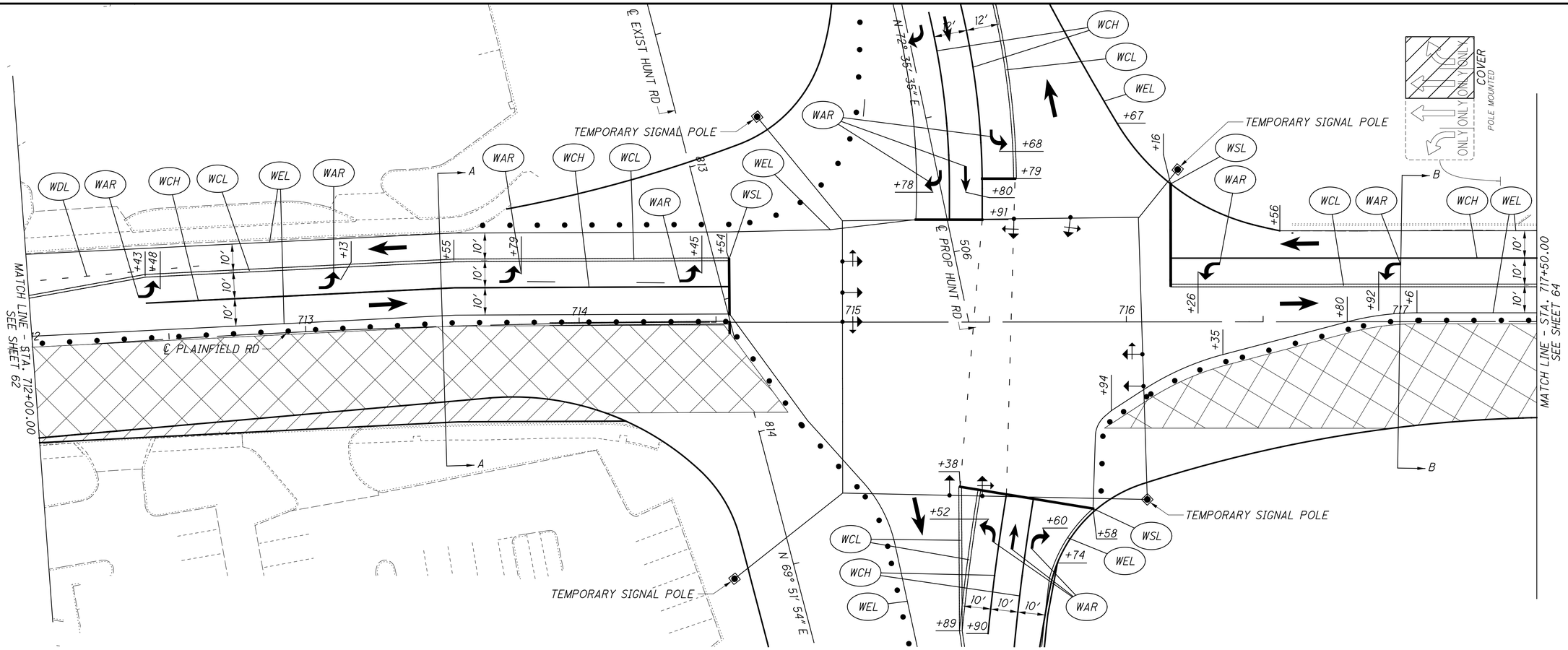

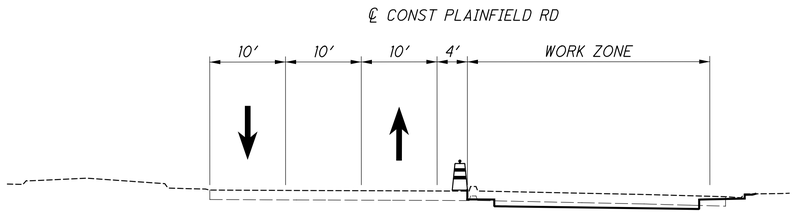

SECTION A-A
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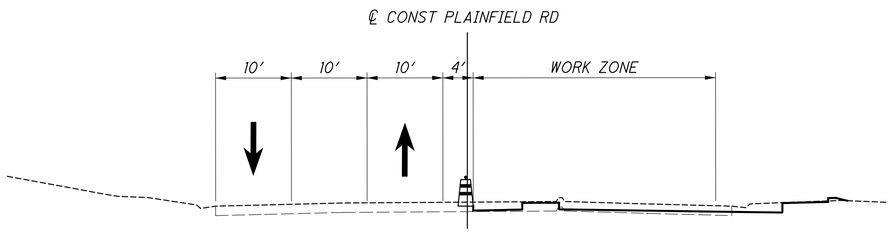

SECTION B-B
STA 717+00.00

CROSS REFERENCES
FOR TEMPORARY SIGNAL PLAN, SEE SHEET 95.
FOR TEMPORARY SIGNAL DETAILS, SEE SHEET 97.

LEGEND

WSL	WORK ZONE STOP LINE
WAR	WORK ZONE LANE ARROW
WCH	WORK ZONE CHANNELIZING LINE
WLL	WORK ZONE LANE LINE
WDL	WORK ZONE DOTTED LINE
WCL	WORK ZONE CENTER LINE
WEL	WORK ZONE EDGE LINE

TRAFFIC PATTERN
WORK AREA
TEMPORARY PAVEMENT CONSTRUCTION
TYPE III BARRICADE
COVERED OR PARTIALLY COVERED EXISTING SIGN
MOT DRUMS

HORIZONTAL SCALE IN FEET
0 10 20 40
CALCULATED CML
CHECKED JS

MAINTENANCE OF TRAFFIC
PLAINFIELD RD & HUNT RD - PHASE 3
HAM-PLAINFIELD RD ROUNDABOUTS

63
335

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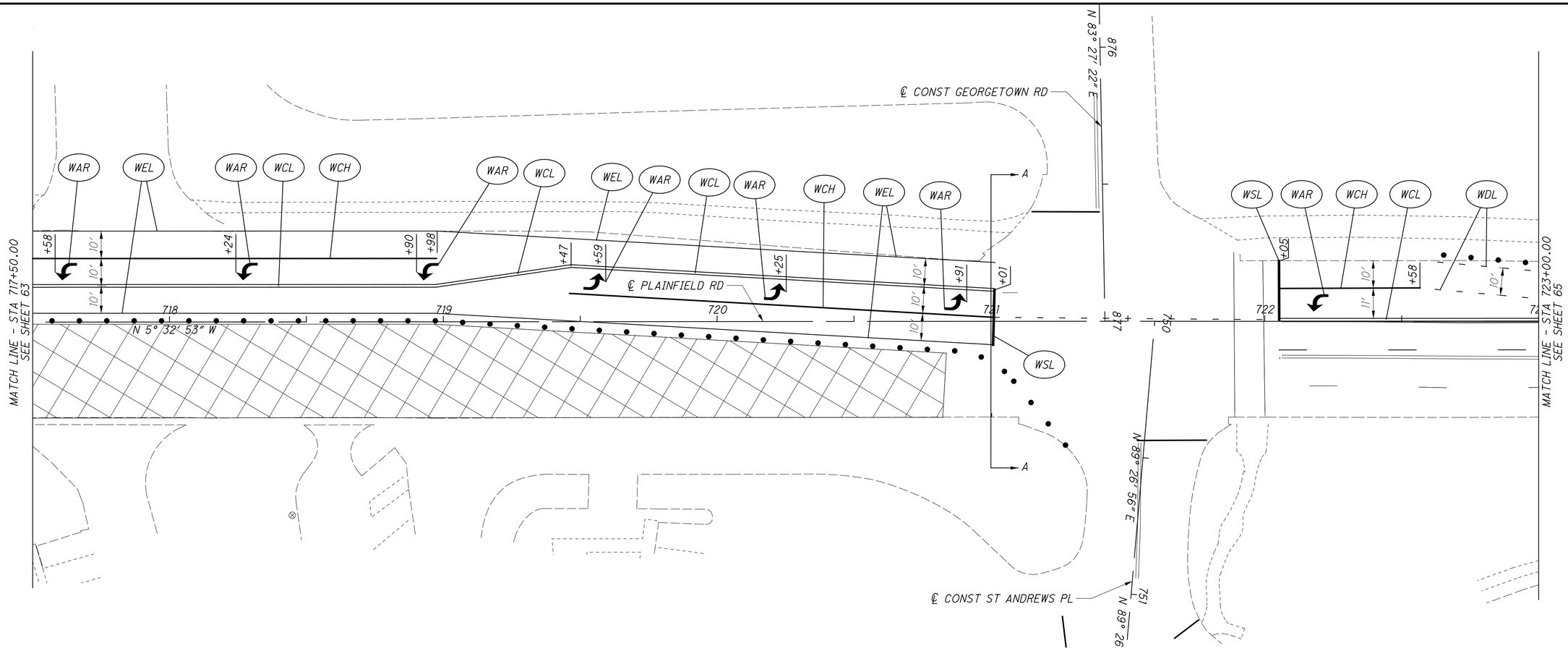

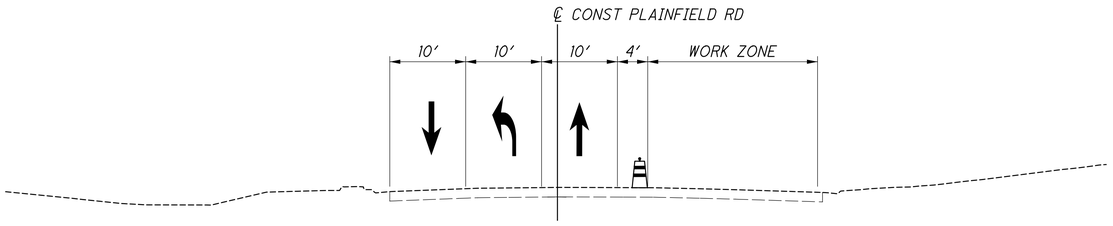

SECTION A-A
STA 721+00.00

LEGEND

WSL	WORK ZONE STOP LINE
WAR	WORK ZONE LANE ARROW
WCH	WORK ZONE CHANNELIZING LINE
WLL	WORK ZONE LANE LINE
WDL	WORK ZONE DOTTED LINE
WCL	WORK ZONE CENTER LINE
WEL	WORK ZONE EDGE LINE

TRAFFIC PATTERN

WORK AREA

TEMPORARY PAVEMENT CONSTRUCTION

TYPE III BARRICADE

COVERED OR PARTIALLY COVERED EXISTING SIGN

MOT DRUMS

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CML
CHECKED JS

MAINTENANCE OF TRAFFIC
PLAINFIELD RD & HUNT RD - PHASE 3
HAM-PLAINFIELD RD ROUNDABOUTS

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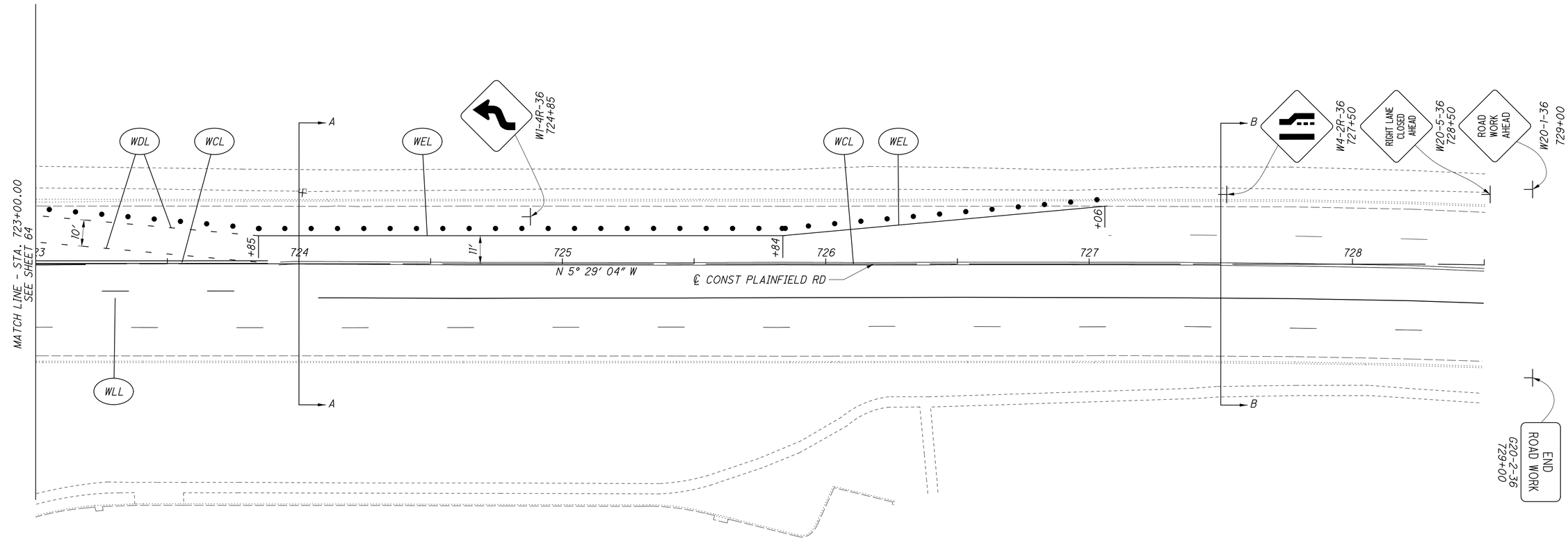
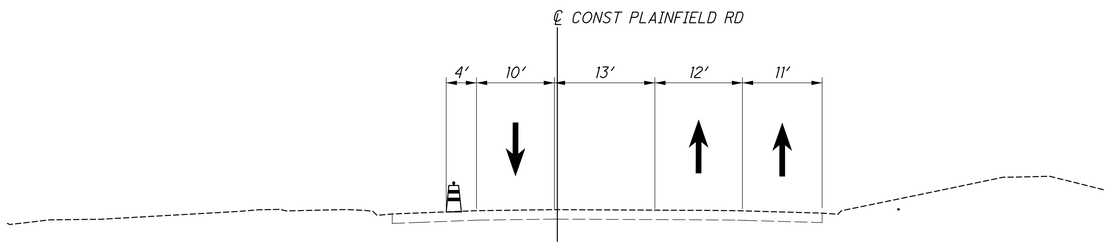
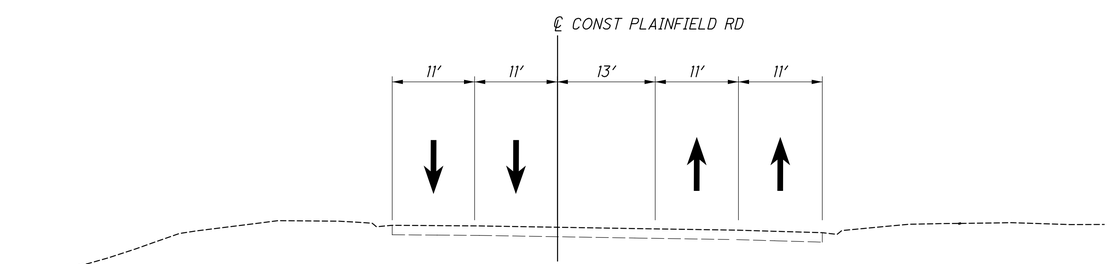




SECTION A-A
STA 724+00.00



SECTION B-B
STA 727+50.00

LEGEND

WSL	WORK ZONE STOP LINE
WAR	WORK ZONE LANE ARROW
WCH	WORK ZONE CHANNELIZING LINE
WLL	WORK ZONE LANE LINE
WDL	WORK ZONE DOTTED LINE
WCL	WORK ZONE CENTER LINE
WEL	WORK ZONE EDGE LINE

TRAFFIC PATTERN (NON-PEAK HOURS)

WORK AREA

TEMPORARY PAVEMENT CONSTRUCTION

TYPE III BARRICADE

COVERED OR PARTIALLY COVERED EXISTING SIGN

MOT DRUMS

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CML
CHECKED JS

MAINTENANCE OF TRAFFIC
PLAINFIELD RD & HUNT RD - PHASE 3
HAM-PLAINFIELD RD ROUNDABOUTS

65
335

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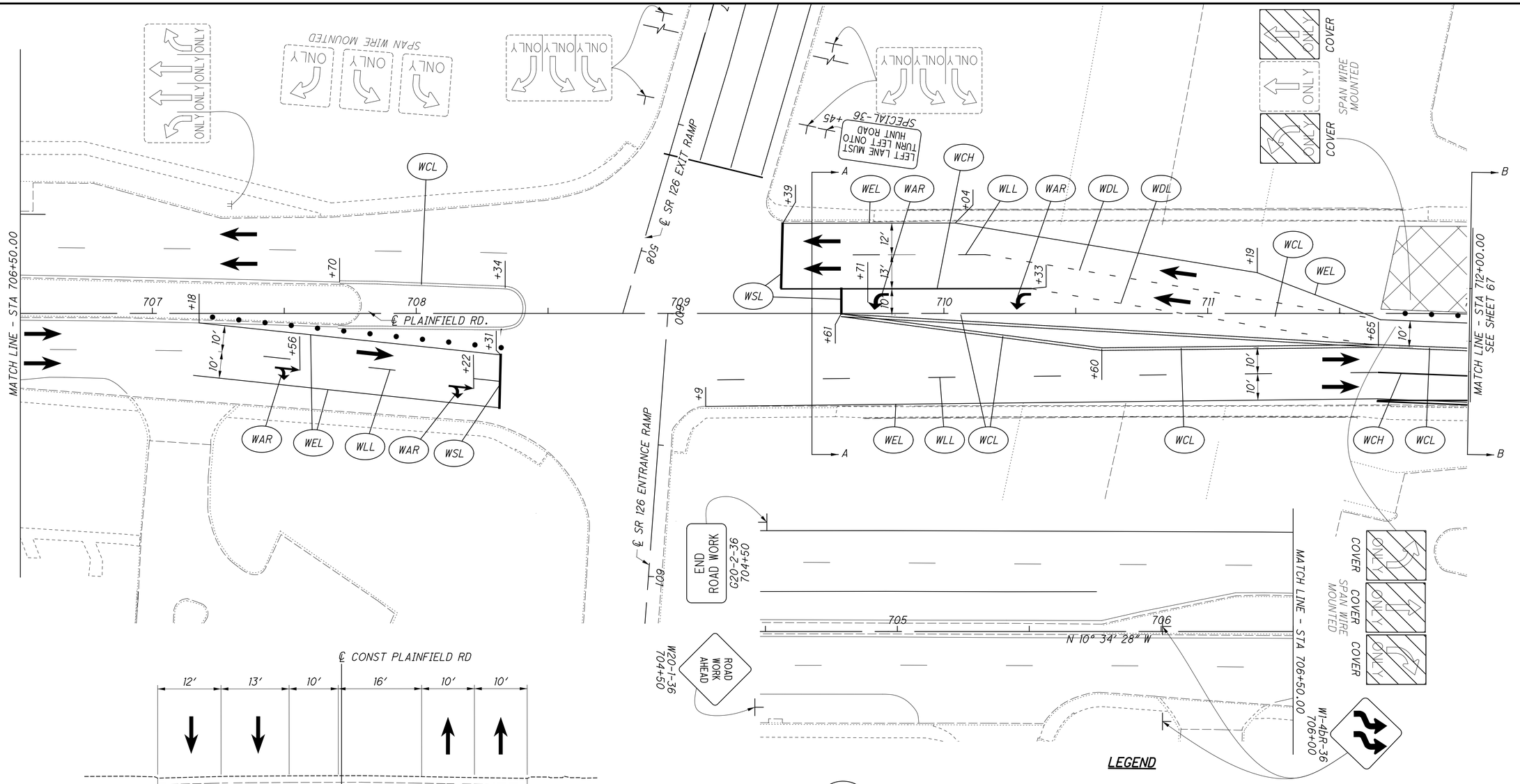
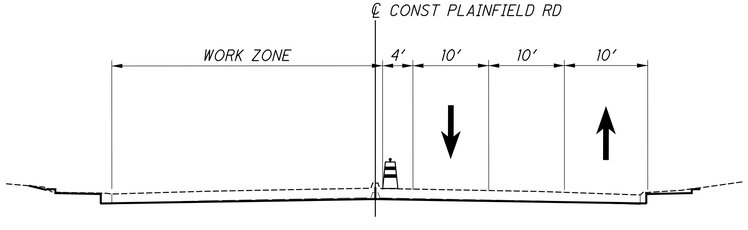


SECTION A-A
STA 709+50.00



SECTION B-B
STA 712+00.00

LEGEND

WSL	WORK ZONE STOP LINE
WAR	WORK ZONE LANE ARROW
WCH	WORK ZONE CHANNELIZING LINE
WLL	WORK ZONE LANE LINE
WDL	WORK ZONE DOTTED LINE
WCL	WORK ZONE CENTER LINE
WEL	WORK ZONE EDGE LINE

TRAFFIC PATTERN

WORK AREA

TEMPORARY PAVEMENT CONSTRUCTION

TYPE III BARRICADE

COVERED OR PARTIALLY COVERED EXISTING SIGN

MOT DRUMS

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CML
CHECKED JS

MAINTENANCE OF TRAFFIC
PLAINFIELD RD & HUNT RD - PHASE 4

HAM-PLAINFIELD RD ROUNDABOUTS

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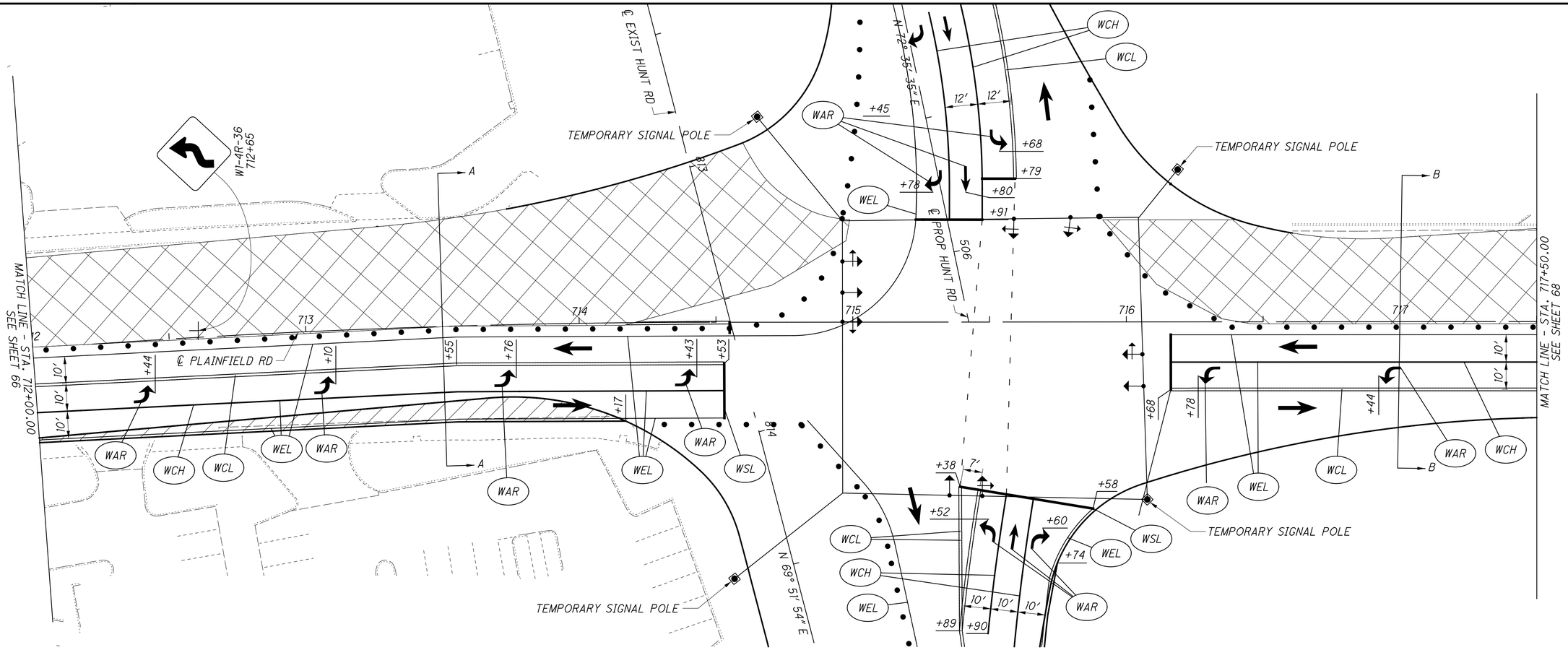
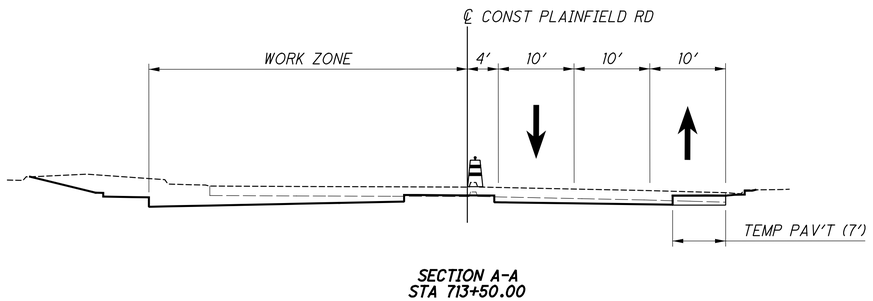
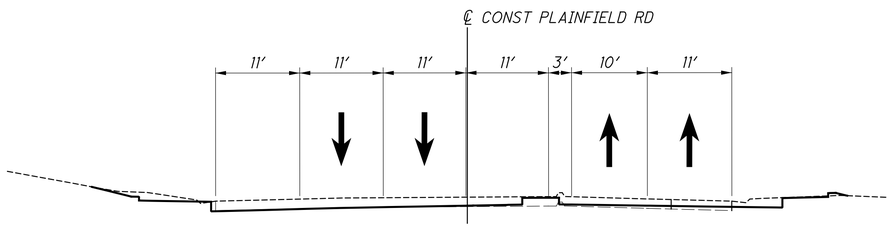




SECTION A-A
STA 713+50.00



SECTION B-B
STA 717+00.00

CROSS REFERENCES
FOR TEMPORARY SIGNAL PLAN, SEE SHEET 95.
FOR TEMPORARY SIGNAL DETAILS, SEE SHEET 97.

LEGEND

WSL	WORK ZONE STOP LINE	→	TRAFFIC PATTERN
WAR	WORK ZONE LANE ARROW		WORK AREA
WCH	WORK ZONE CHANNELIZING LINE		TEMPORARY PAVEMENT CONSTRUCTION
WLL	WORK ZONE LANE LINE		TYPE III BARRICADE
WDL	TEMPORARY PAVEMENT	GMC ONLY	COVERED OR PARTIALLY COVERED EXISTING SIGN
WCL	WORK ZONE CENTER LINE	• • •	MOT DRUMS
WEL	WORK ZONE EDGE LINE		

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CML
CHECKED JS

MAINTENANCE OF TRAFFIC
PLAINFIELD RD & HUNT RD - PHASE 4

HAM-PLAINFIELD RD ROUNDABOUTS

67
335

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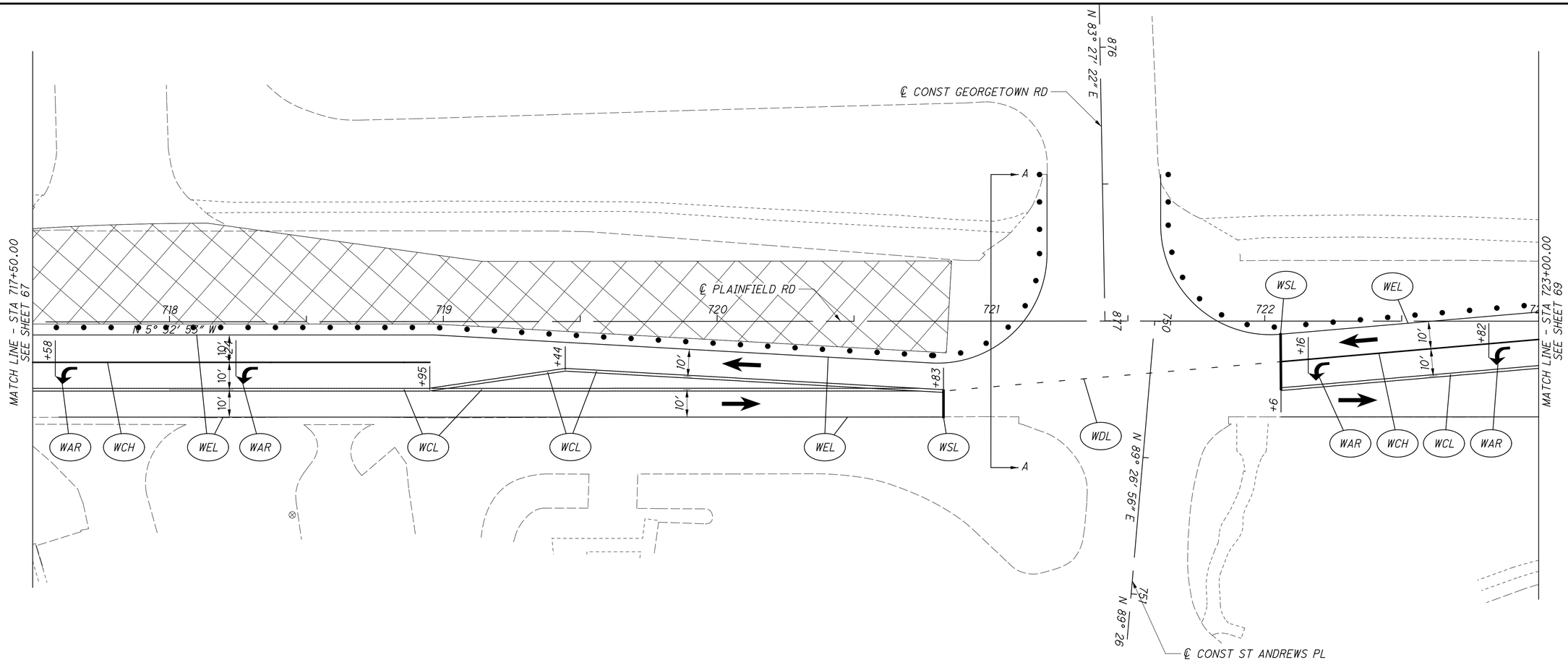

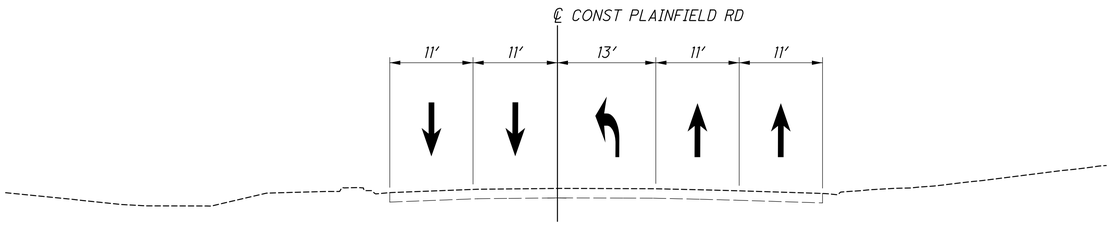

SECTION A-A
STA 721+00.00

LEGEND

WSL	WORK ZONE STOP LINE
WAR	WORK ZONE LANE ARROW
WCH	WORK ZONE CHANNELIZING LINE
WLL	WORK ZONE LANE LINE
WDL	WORK ZONE DOTTED LINE
WCL	WORK ZONE CENTER LINE
WEL	WORK ZONE EDGE LINE

TRAFFIC PATTERN

WORK AREA

TEMPORARY PAVEMENT CONSTRUCTION

TYPE III BARRICADE

COVERED OR PARTIALLY COVERED EXISTING SIGN

MOT DRUMS

N

0 10 20 40
HORIZONTAL SCALE IN FEET

CALCULATED CML
CHECKED JS

MAINTENANCE OF TRAFFIC
PLAINFIELD RD & HUNT RD - PHASE 4

HAM-PLAINFIELD RD ROUNDABOUTS

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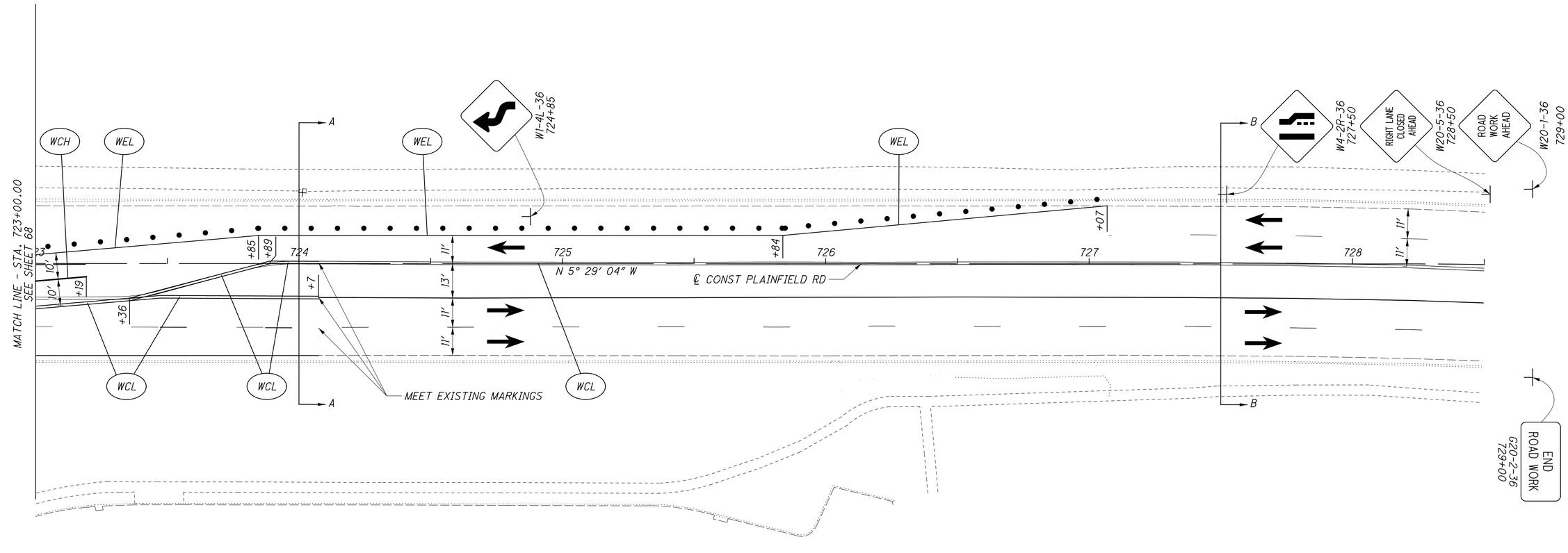
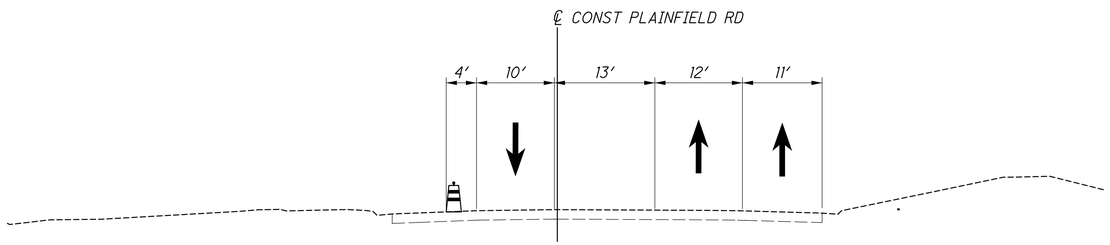
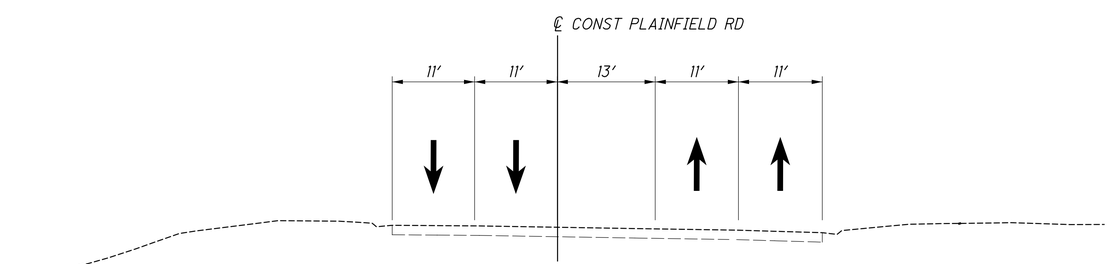




SECTION A-A
STA 724+00.00



SECTION B-B
STA 727+50.00

LEGEND

WSL	WORK ZONE STOP LINE
WAR	WORK ZONE LANE ARROW
WCH	WORK ZONE CHANNELIZING LINE
WLL	WORK ZONE LANE LINE
WDL	WORK ZONE DOTTED LINE
WCL	WORK ZONE CENTER LINE
WEL	WORK ZONE EDGE LINE

TRAFFIC PATTERN

WORK AREA

TEMPORARY PAVEMENT CONSTRUCTION

TYPE III BARRICADE

COVERED OR PARTIALLY COVERED EXISTING SIGN

MOT DRUMS

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CML
CHECKED JS

MAINTENANCE OF TRAFFIC
PLAINFIELD RD & HUNT RD - PHASE 4
HAM-PLAINFIELD RD ROUNDABOUTS

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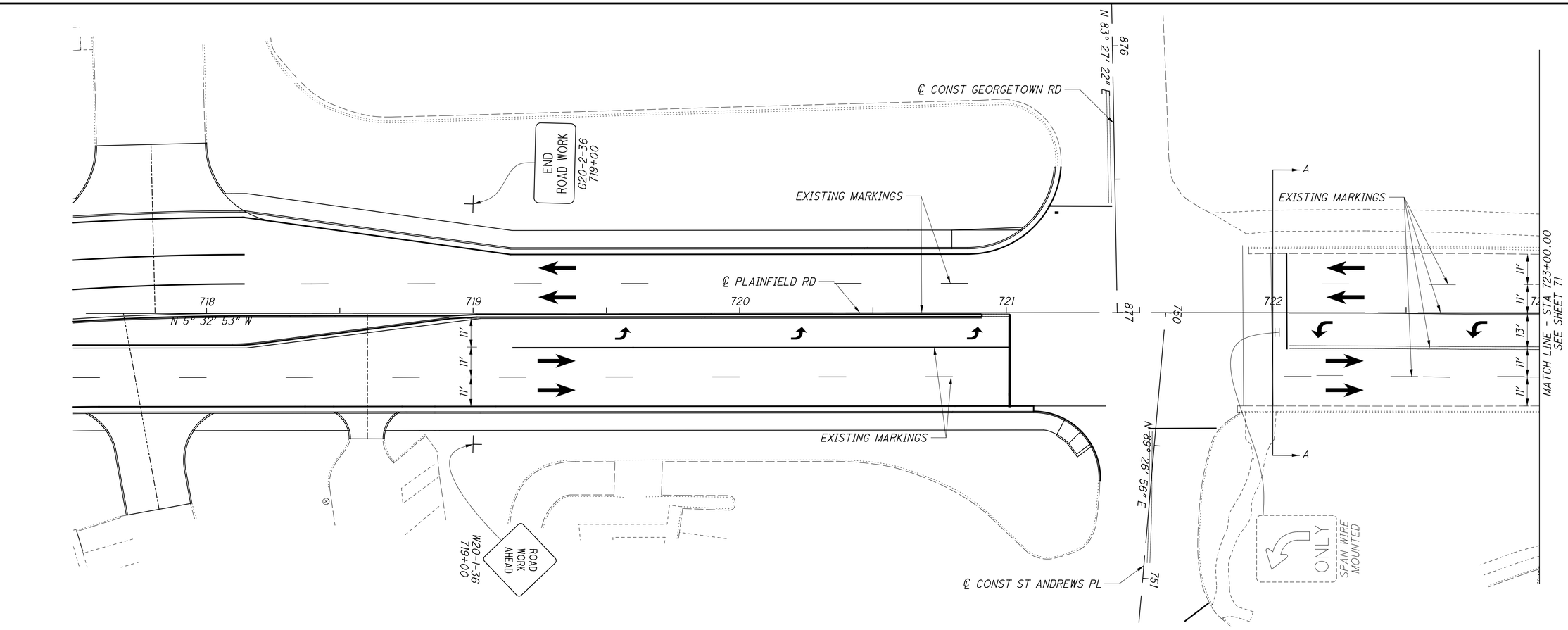

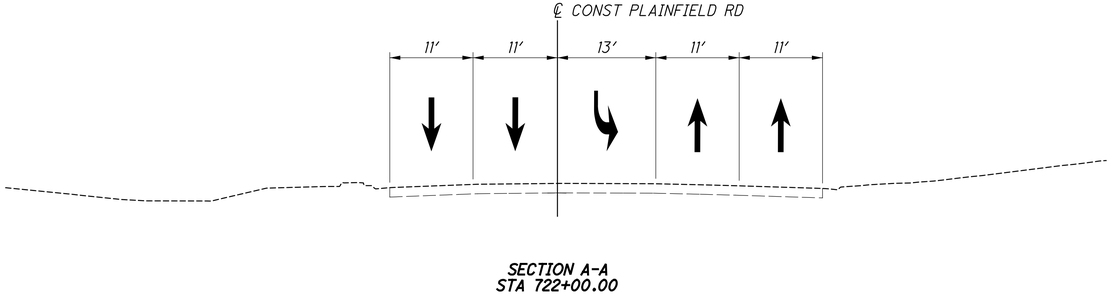

SECTION A-A
STA 722+00.00

LEGEND

WSL	WORK ZONE STOP LINE
WAR	WORK ZONE LANE ARROW
WCH	WORK ZONE CHANNELIZING LINE
WLL	WORK ZONE LANE LINE
WDL	WORK ZONE DOTTED LINE
WCL	WORK ZONE CENTER LINE
WEL	WORK ZONE EDGE LINE

TRAFFIC PATTERN

WORK AREA

TEMPORARY PAVEMENT CONSTRUCTION

TYPE III BARRICADE

COVERED OR PARTIALLY COVERED EXISTING SIGN

MOT DRUMS

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CML
CHECKED JS

MAINTENANCE OF TRAFFIC
PLAINFIELD RD & PEPPERMILL LN - PHASE 1

HAM-PLAINFIELD RD ROUNDABOUTS

70
335

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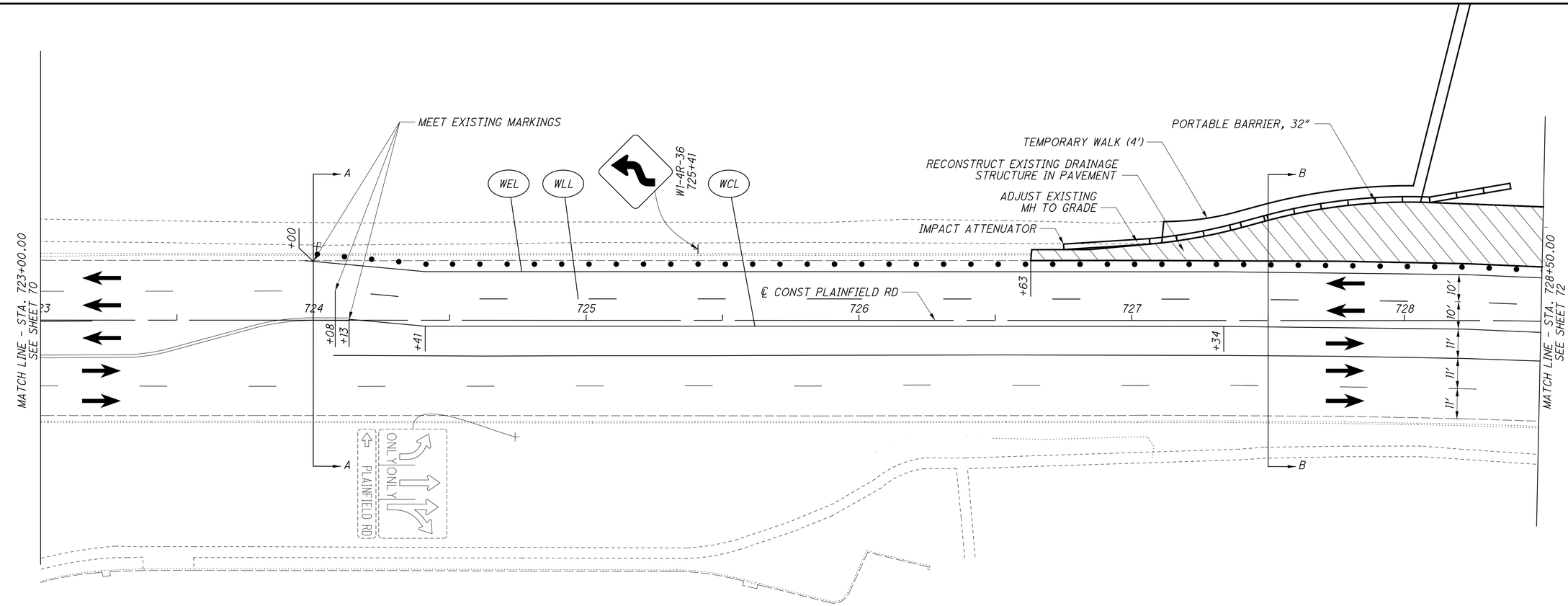
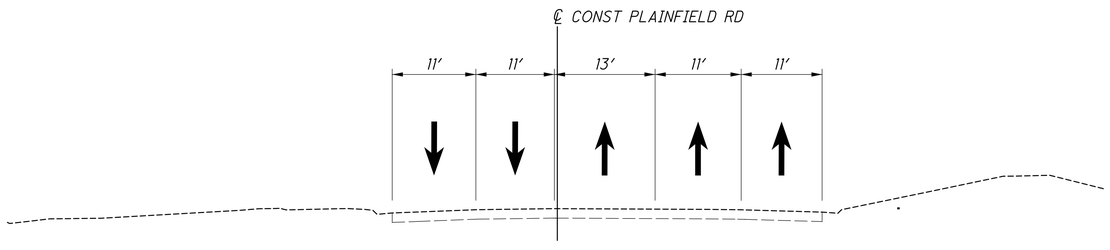
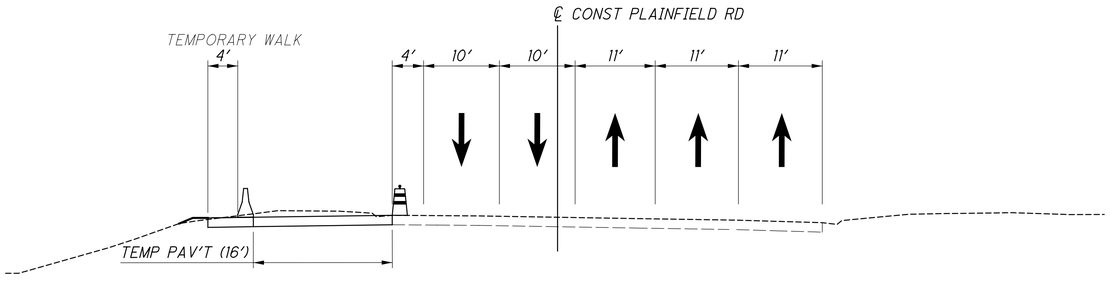




SECTION A-A
STA 724+00.00



SECTION B-B
STA 727+50.00

NOTE: SEE SHEETS 36 - 37 FOR TEMPORARY WALK PHASING AND DETAILS

LEGEND

WSL	WORK ZONE STOP LINE	→	TRAFFIC PATTERN
WAR	WORK ZONE LANE ARROW		WORK AREA
WCH	WORK ZONE CHANNELIZING LINE		TEMPORARY PAVEMENT CONSTRUCTION
WLL	WORK ZONE LANE LINE		TYPE III BARRICADE
WDL	WORK ZONE DOTTED LINE	ONLY ONLY	COVERED OR PARTIALLY COVERED EXISTING SIGN
WCL	WORK ZONE CENTER LINE		MOT DRUMS
WEL	WORK ZONE EDGE LINE		

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CML
CHECKED JS

MAINTENANCE OF TRAFFIC
PLAINFIELD RD & PEPPERMILL LN - PHASE 1
HAM-PLAINFIELD RD ROUNDABOUTS

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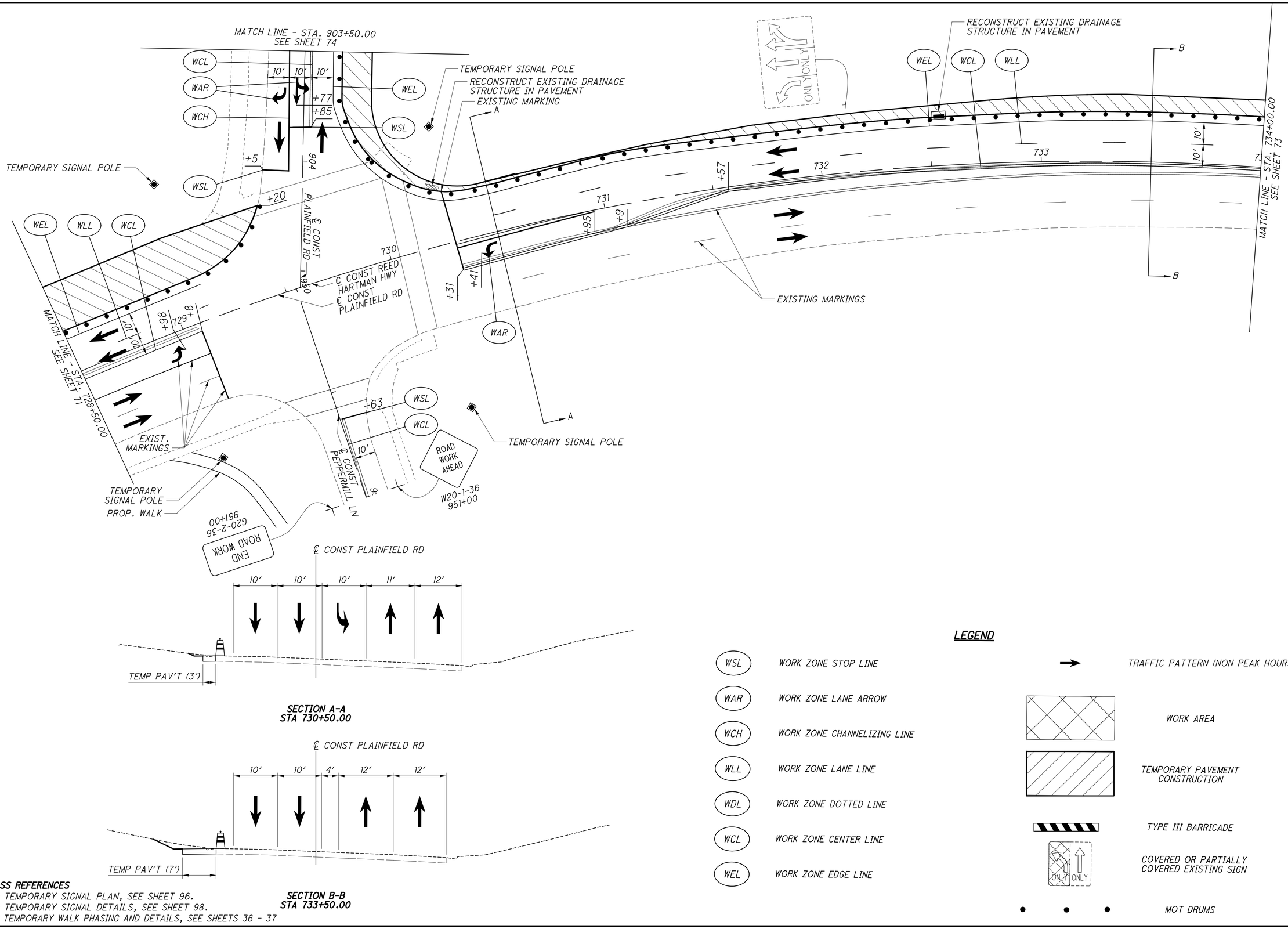

CROSS REFERENCES

FOR TEMPORARY SIGNAL PLAN, SEE SHEET 96.
FOR TEMPORARY SIGNAL DETAILS, SEE SHEET 98.
FOR TEMPORARY WALK PHASING AND DETAILS, SEE SHEETS 36 - 37

LEGEND

WSL	WORK ZONE STOP LINE	→	TRAFFIC PATTERN (NON PEAK HOURS)
WAR	WORK ZONE LANE ARROW		WORK AREA
WCH	WORK ZONE CHANNELIZING LINE		TEMPORARY PAVEMENT CONSTRUCTION
WLL	WORK ZONE LANE LINE		TYPE III BARRICADE
WDL	WORK ZONE DOTTED LINE	ONLY ONLY	COVERED OR PARTIALLY COVERED EXISTING SIGN
WCL	WORK ZONE CENTER LINE	• • •	MOT DRUMS
WEL	WORK ZONE EDGE LINE		

HORIZONTAL SCALE IN FEET
0 10 20 40
CALCULATED CML
CHECKED JS

MAINTENANCE OF TRAFFIC
PLAINFIELD RD & PEPPERMILL LN - PHASE 1

HAM-PLAINFIELD RD ROUNDABOUTS

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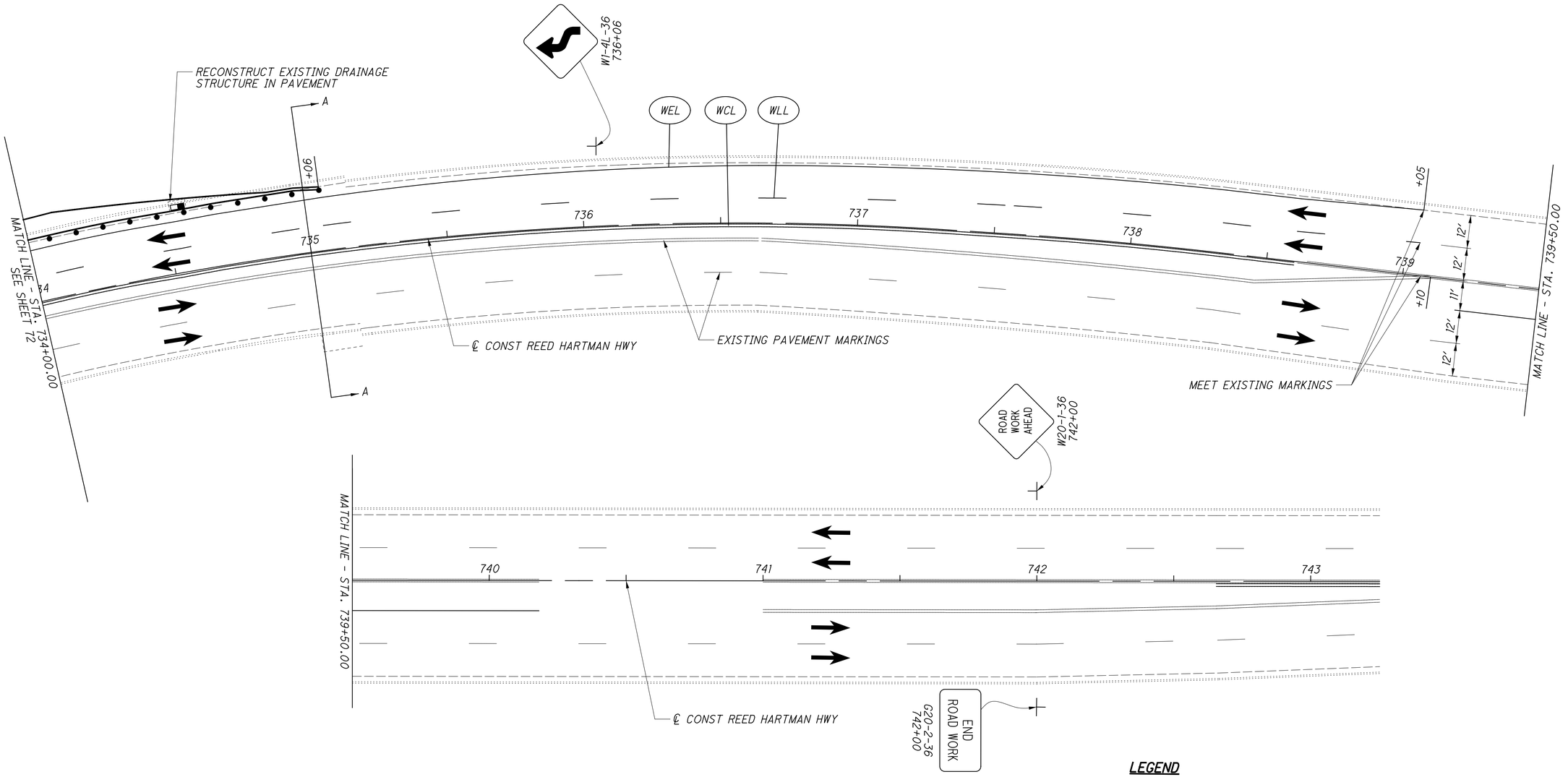

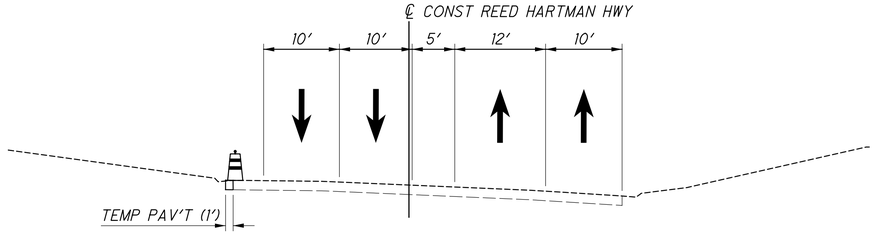

SECTION A-A
STA 735+00.00

LEGEND

WSL	WORK ZONE STOP LINE
WAR	WORK ZONE LANE ARROW
WCH	WORK ZONE CHANNELIZING LINE
WLL	WORK ZONE LANE LINE
WDL	WORK ZONE DOTTED LINE
WCL	WORK ZONE CENTER LINE
WEL	WORK ZONE EDGE LINE

TRAFFIC PATTERN

WORK AREA

TEMPORARY PAVEMENT CONSTRUCTION

TYPE III BARRICADE

COVERED OR PARTIALLY COVERED EXISTING SIGN

MOT DRUMS

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CML
CHECKED JS

MAINTENANCE OF TRAFFIC
PLAINFIELD RD & PEPPERMILL LN - PHASE 1

HAM-PLAINFIELD RD ROUNDABOUTS

73
335

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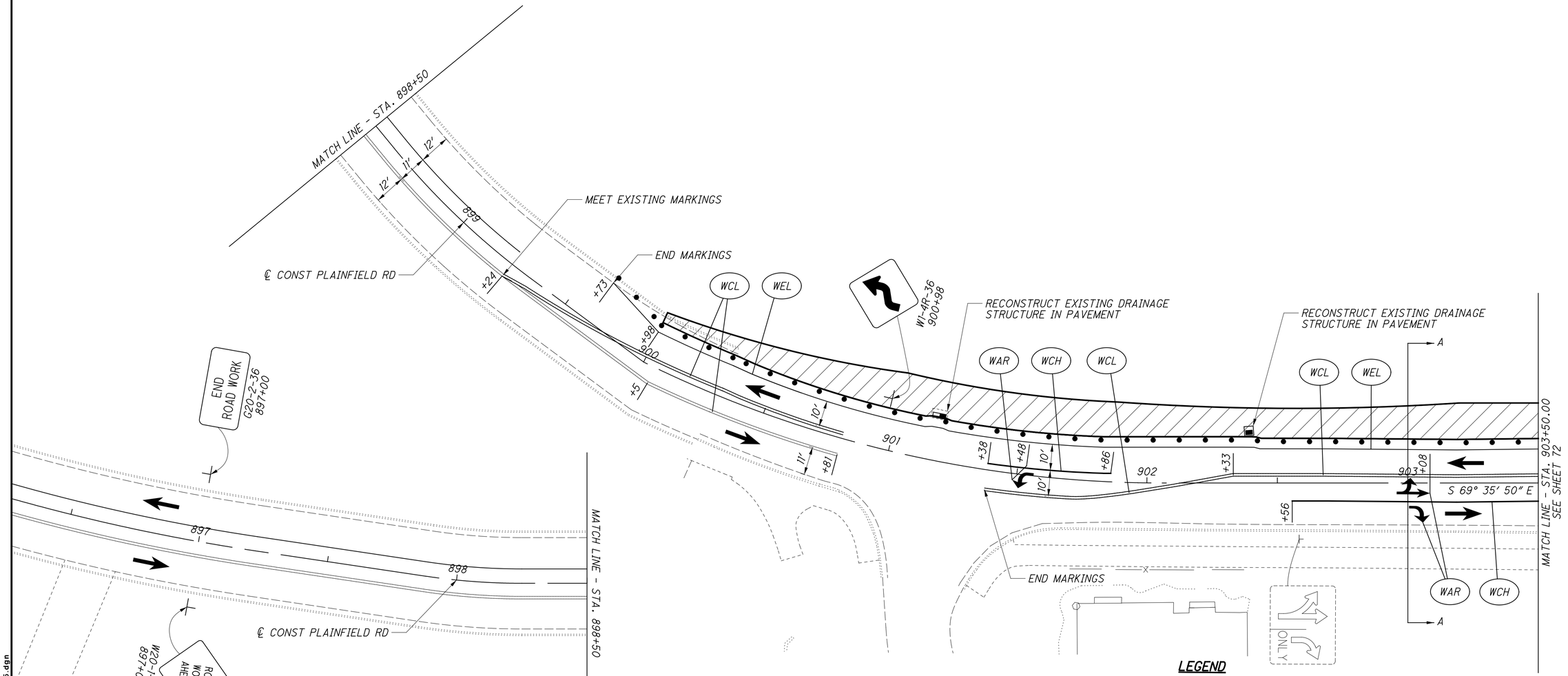

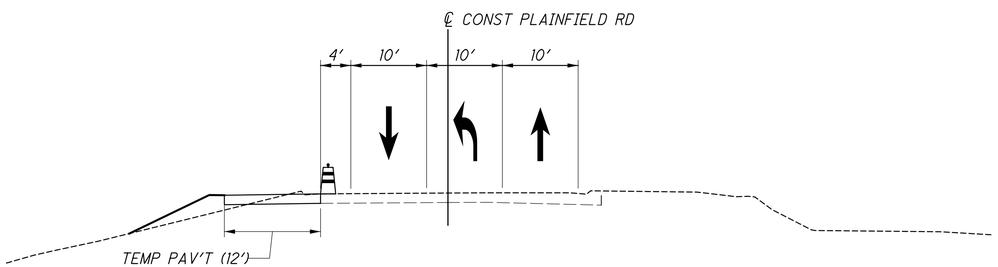

SECTION A-A
STA 903+00.00

LEGEND

WSL	WORK ZONE STOP LINE
WAR	WORK ZONE LANE ARROW
WCH	WORK ZONE CHANNELIZING LINE
WLL	WORK ZONE LANE LINE
WDL	WORK ZONE DOTTED LINE
WCL	WORK ZONE CENTER LINE
WEL	WORK ZONE EDGE LINE

TRAFFIC PATTERN

WORK AREA

TEMPORARY PAVEMENT CONSTRUCTION

TYPE III BARRICADE

COVERED OR PARTIALLY COVERED EXISTING SIGN

MOT DRUMS

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CML
CHECKED JS

MAINTENANCE OF TRAFFIC
PLAINFIELD RD & PEPPERMILL LN - PHASE 1

HAM-PLAINFIELD RD ROUNDABOUTS

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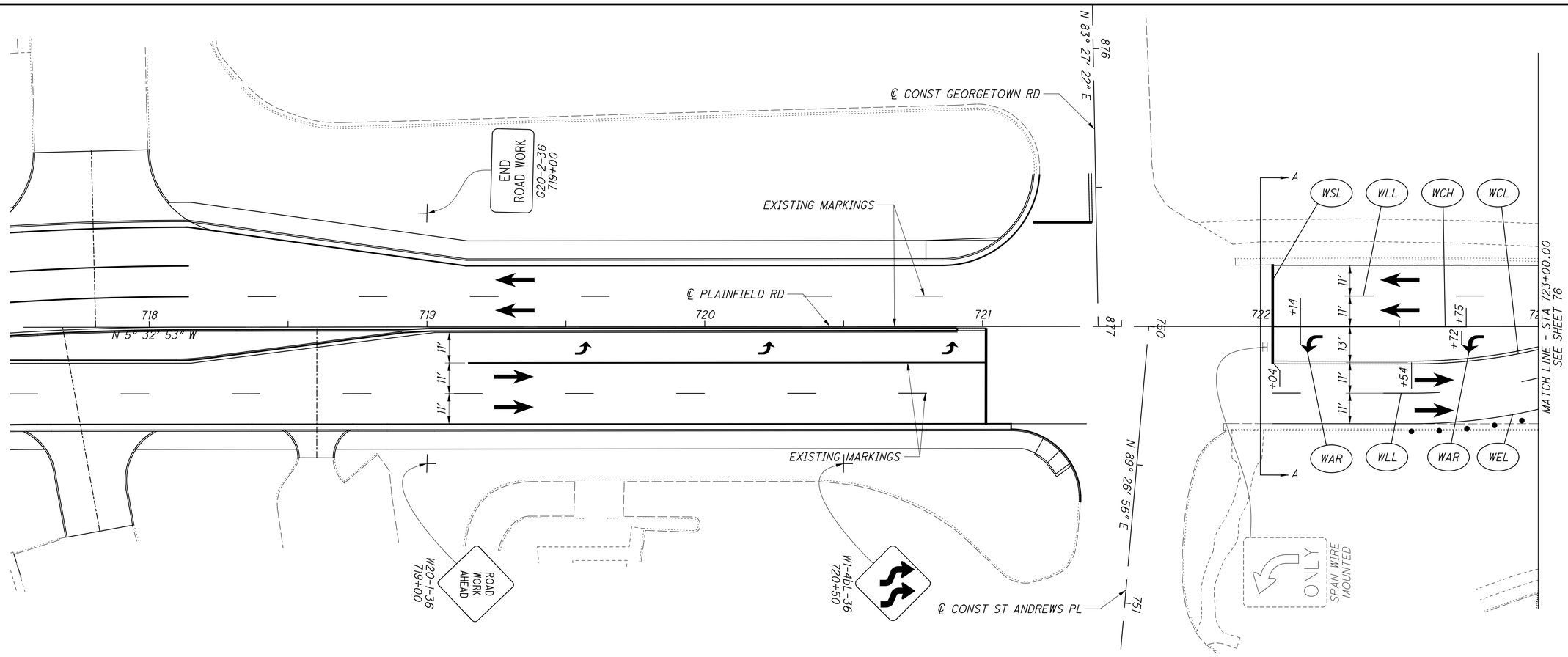

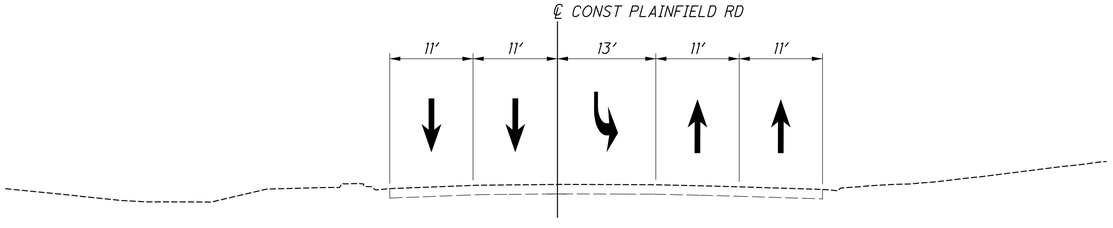

SECTION A-A
STA 722+00.00

LEGEND

WSL	WORK ZONE STOP LINE
WAR	WORK ZONE LANE ARROW
WCH	WORK ZONE CHANNELIZING LINE
WLL	WORK ZONE LANE LINE
WDL	WORK ZONE DOTTED LINE
WCL	WORK ZONE CENTER LINE
WEL	WORK ZONE EDGE LINE

TRAFFIC PATTERN

WORK AREA

TEMPORARY PAVEMENT CONSTRUCTION

TYPE III BARRICADE

COVERED OR PARTIALLY COVERED EXISTING SIGN

MOT DRUMS

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CML
CHECKED JS

MAINTENANCE OF TRAFFIC
PLAINFIELD RD & PEPPERMILL LN - PHASE 2
HAM-PLAINFIELD RD ROUNDABOUTS

75
335

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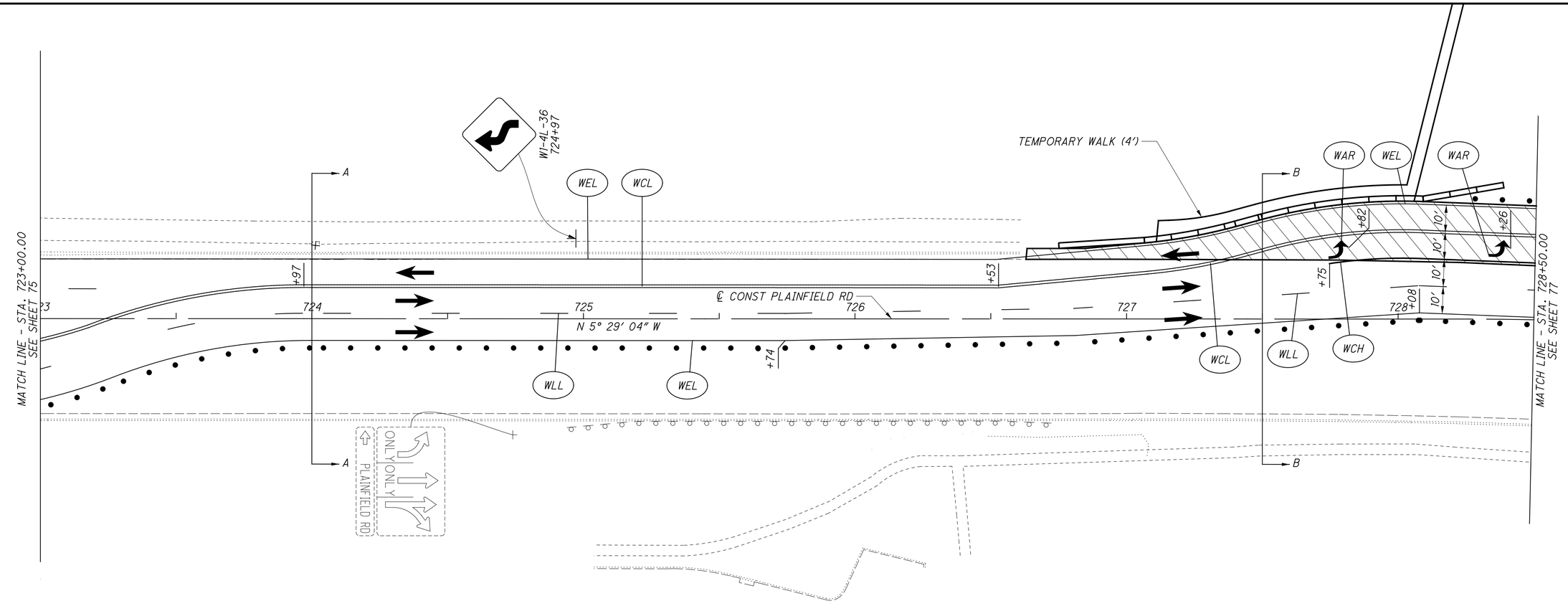
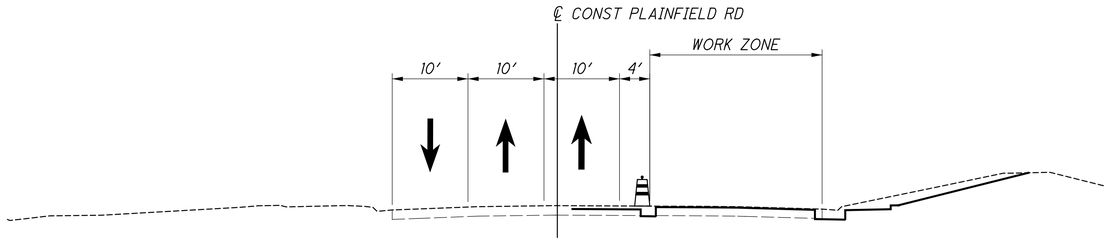
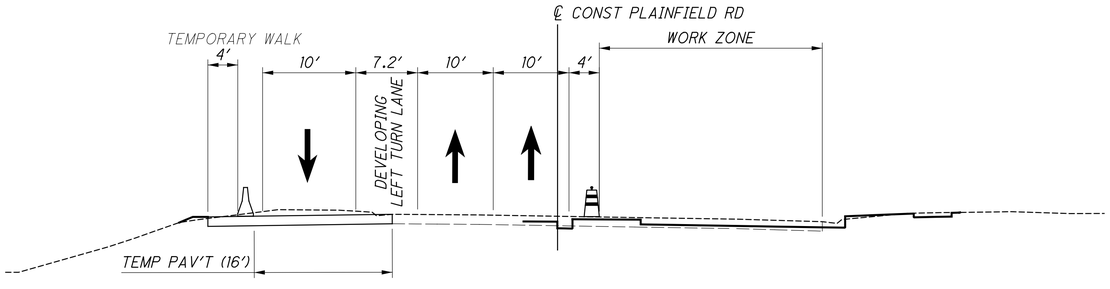




SECTION A-A
STA 724+00.00



SECTION B-B
STA 727+50.00

NOTE: SEE SHEETS 36 - 37 FOR TEMPORARY WALK PHASING AND DETAILS

LEGEND

WSL	WORK ZONE STOP LINE	→	TRAFFIC PATTERN
WAR	WORK ZONE LANE ARROW		WORK AREA
WCH	WORK ZONE CHANNELIZING LINE		TEMPORARY PAVEMENT CONSTRUCTION
WLL	WORK ZONE LANE LINE		TYPE III BARRICADE
WDL	WORK ZONE DOTTED LINE	SML ONLY	COVERED OR PARTIALLY COVERED EXISTING SIGN
WCL	WORK ZONE CENTER LINE	• • •	MOT DRUMS
WEL	WORK ZONE EDGE LINE		

N

0 10 20 40 HORIZONTAL SCALE IN FEET

CALCULATED CML CHECKED JS

MAINTENANCE OF TRAFFIC
PLAINFIELD RD & PEPPERMILL LN - PHASE 2

HAM-PLAINFIELD RD ROUNDABOUTS

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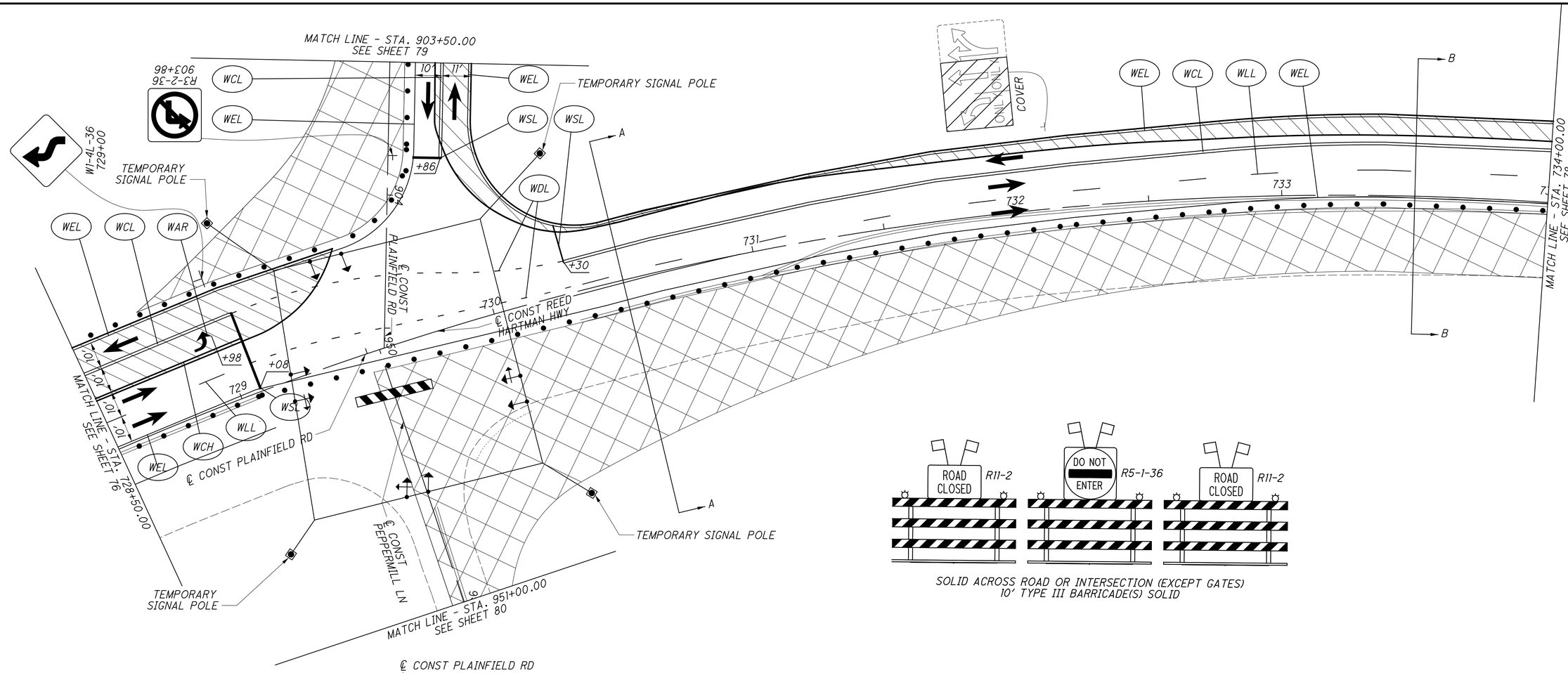
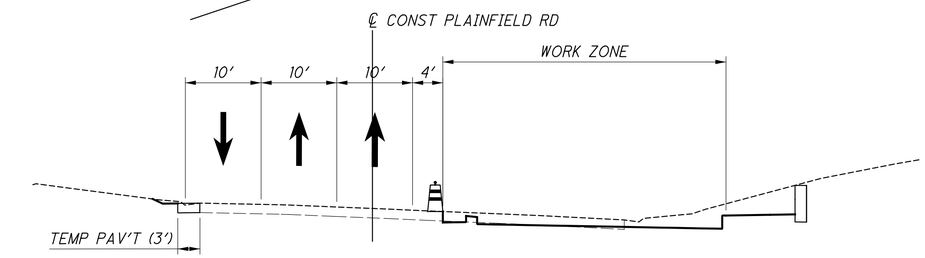
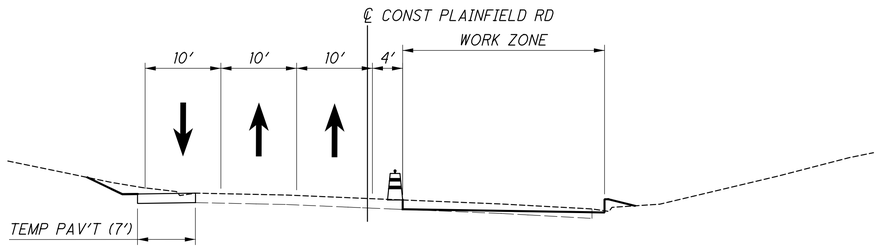


SOLID ACROSS ROAD OR INTERSECTION (EXCEPT GATES)
10' TYPE III BARRICADE(S) SOLID



SECTION A-A
STA 730+50.00



SECTION B-B
STA 733+50.00

CROSS REFERENCES
FOR DETOUR PLAN, SEE SHEET 36.
FOR TEMPORARY SIGNAL PLAN, SEE SHEET 96.
FOR TEMPORARY SIGNAL DETAILS, SEE SHEET 98.
FOR TEMPORARY WALK PHASING AND DETAILS, SEE SHEETS 36 - 37

LEGEND

WSL	WORK ZONE STOP LINE	→	TRAFFIC PATTERN
WAR	WORK ZONE LANE ARROW		WORK AREA
WCH	WORK ZONE CHANNELIZING LINE		TEMPORARY PAVEMENT CONSTRUCTION
WLL	WORK ZONE LANE LINE		TYPE III BARRICADE
WDL	WORK ZONE DOTTED LINE	ONLY ONLY	COVERED OR PARTIALLY COVERED EXISTING SIGN
WCL	WORK ZONE CENTER LINE		
WEL	WORK ZONE EDGE LINE	• • •	MOT DRUMS
WBL	WORK ZONE DOTTED LINE		

HORIZONTAL SCALE IN FEET
0 10 20 40
CALCULATED CML
CHECKED JS

MAINTENANCE OF TRAFFIC
PLAINFIELD RD & PEPPERMILL LN - PHASE 2

HAM-PLAINFIELD RD ROUNDABOUTS

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335

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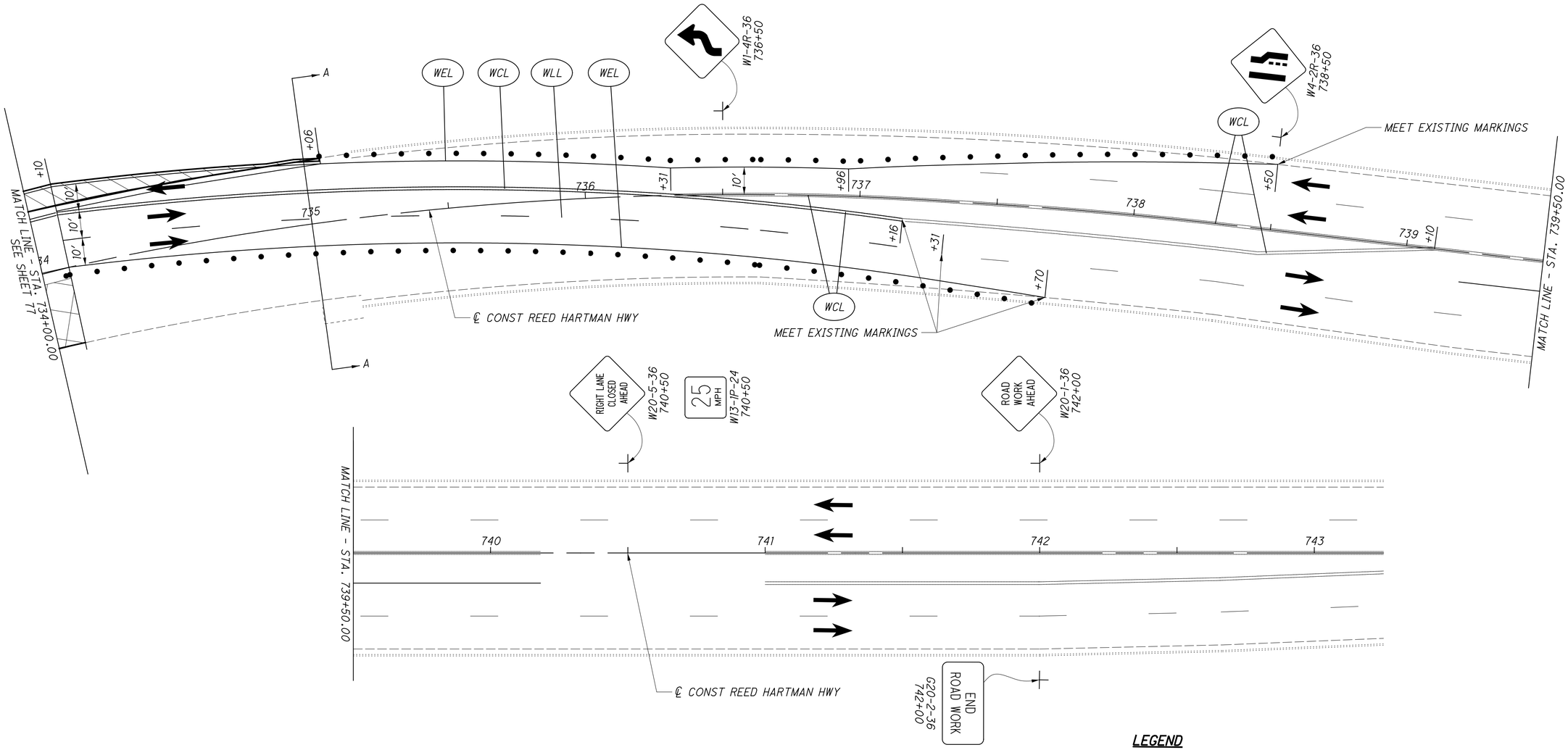

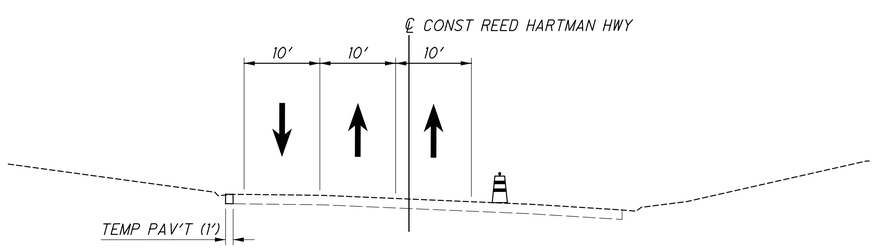

SECTION A-A
STA 735+00.00

LEGEND

WSL	WORK ZONE STOP LINE
WAR	WORK ZONE LANE ARROW
WCH	WORK ZONE CHANNELIZING LINE
WLL	WORK ZONE LANE LINE
WDL	WORK ZONE DOTTED LINE
WCL	WORK ZONE CENTER LINE
WEL	WORK ZONE EDGE LINE

TRAFFIC PATTERN

WORK AREA

TEMPORARY PAVEMENT CONSTRUCTION

TYPE III BARRICADE

COVERED OR PARTIALLY COVERED EXISTING SIGN

MOT DRUMS

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CML
CHECKED JS

MAINTENANCE OF TRAFFIC
PLAINFIELD RD & PEPPERMILL LN - PHASE 2

HAM-PLAINFIELD RD ROUNDABOUTS

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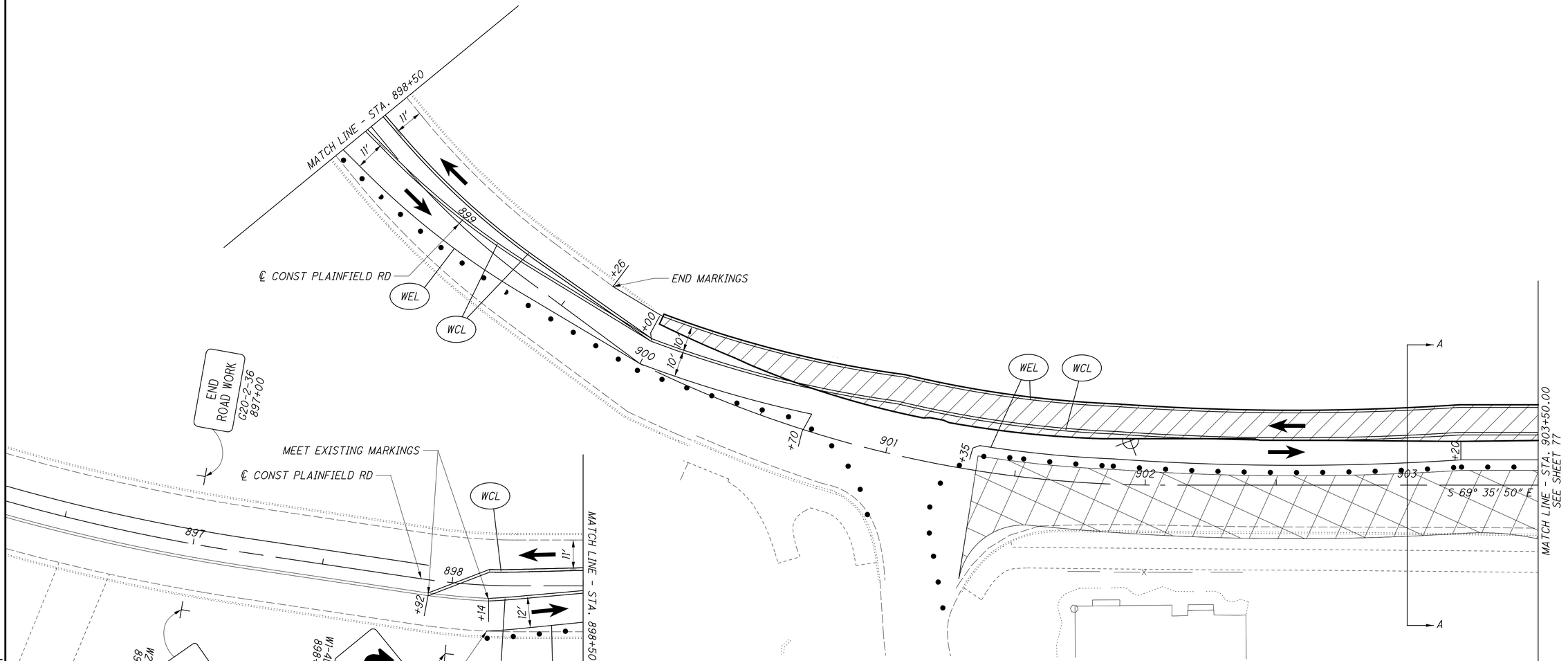

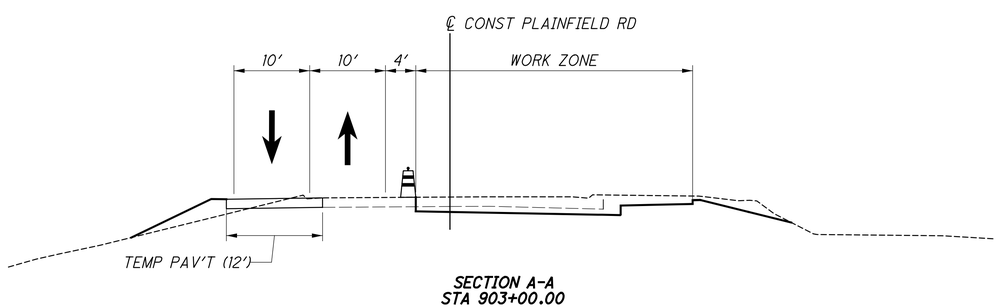

SECTION A-A
STA 903+00.00

LEGEND

WSL	WORK ZONE STOP LINE
WAR	WORK ZONE LANE ARROW
WCH	WORK ZONE CHANNELIZING LINE
WLL	WORK ZONE LANE LINE
WDL	WORK ZONE DOTTED LINE
WCL	WORK ZONE CENTER LINE
WEL	WORK ZONE EDGE LINE

TRAFFIC PATTERN

WORK AREA

TEMPORARY PAVEMENT CONSTRUCTION

TYPE III BARRICADE

COVERED OR PARTIALLY COVERED EXISTING SIGN

MOT DRUMS

N

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CML
CHECKED JS

MAINTENANCE OF TRAFFIC
PLAINFIELD RD & PEPPERMILL LN - PHASE 2

HAM-PLAINFIELD RD ROUNDABOUTS

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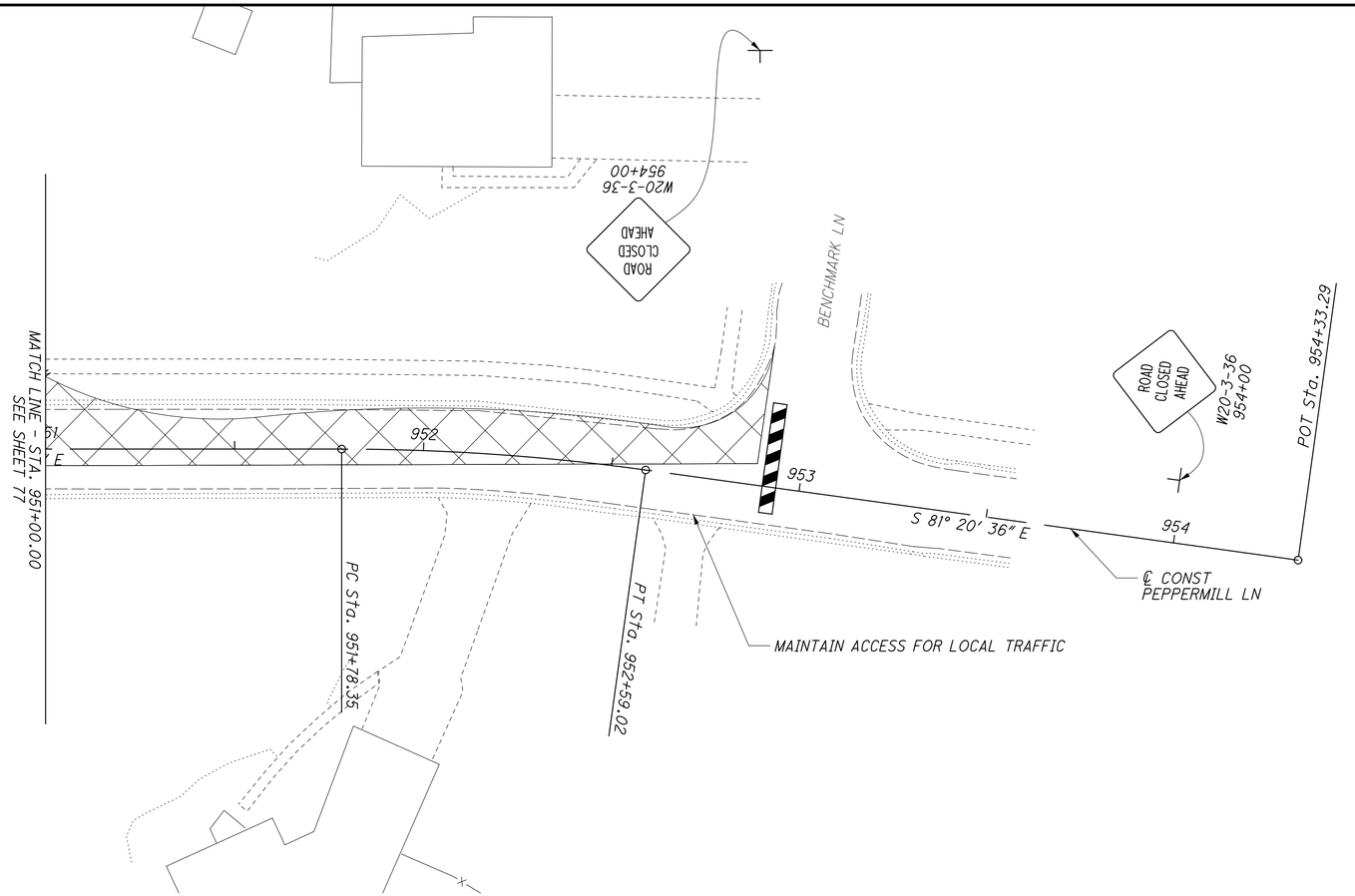

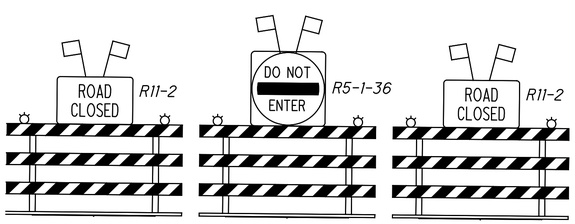

SOLID ACROSS ROAD OR INTERSECTION (EXCEPT GATES)
10' TYPE III BARRICADE(S) SOLID

NOTE: SEE SHEETS 36 - 37 FOR TEMPORARY WALK PHASING AND DETAILS
SEE SHEET 38 FOR DETOUR PLAN

LEGEND

WSL	WORK ZONE STOP LINE	→	TRAFFIC PATTERN
WAR	WORK ZONE LANE ARROW		WORK AREA
WCH	WORK ZONE CHANNELIZING LINE		TEMPORARY PAVEMENT CONSTRUCTION
WLL	WORK ZONE LANE LINE		TYPE III BARRICADE
WDL	WORK ZONE DOTTED LINE	ONLY ONLY	COVERED OR PARTIALLY COVERED EXISTING SIGN
WCL	WORK ZONE CENTER LINE	• • •	MOT DRUMS
WEL	WORK ZONE EDGE LINE		

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CML
CHECKED JS

MAINTENANCE OF TRAFFIC
PLAINFIELD RD & PEPPERMILL LN - PHASE 2

HAM-PLAINFIELD RD
ROUNDABOUTS

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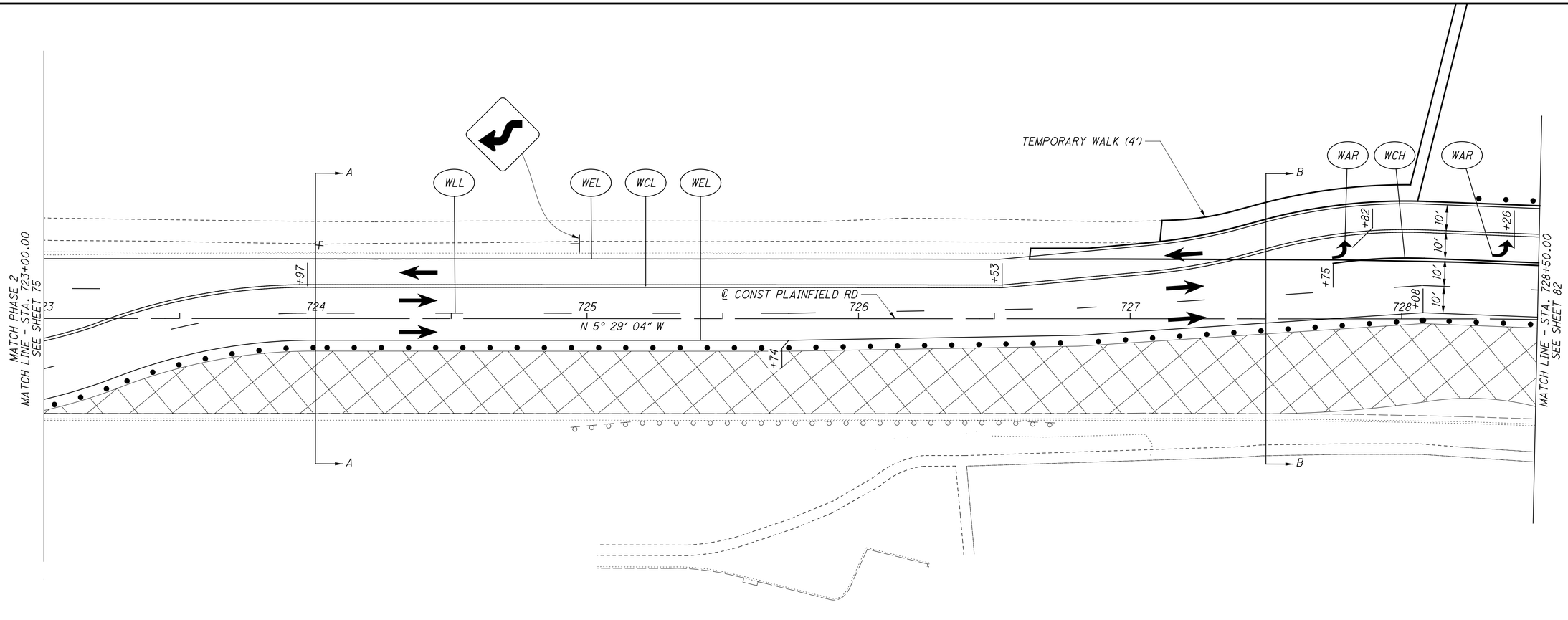
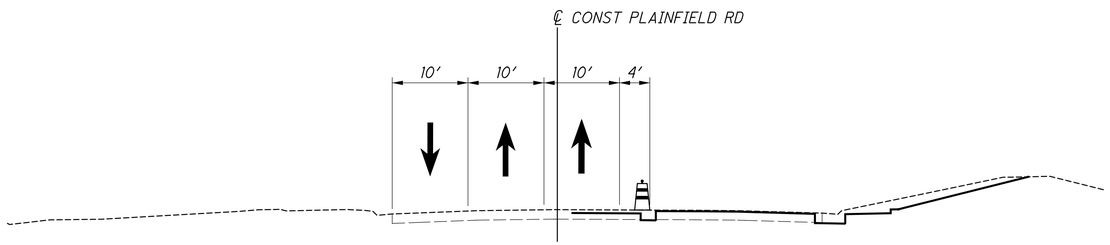
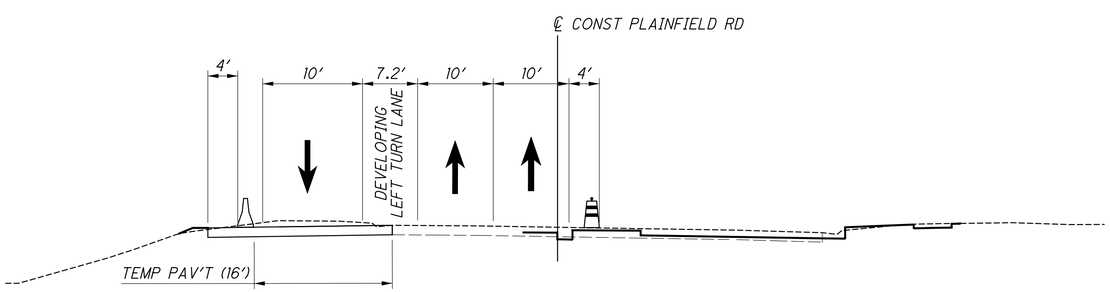




SECTION A-A
STA 724+00.00



SECTION B-B
STA 727+50.00

NOTE: SEE SHEETS 36 - 37 FOR TEMPORARY WALK PHASING AND DETAILS

LEGEND

WSL	WORK ZONE STOP LINE
WAR	WORK ZONE LANE ARROW
WCH	WORK ZONE CHANNELIZING LINE
WLL	WORK ZONE LANE LINE
WDL	WORK ZONE DOTTED LINE
WCL	WORK ZONE CENTER LINE
WEL	WORK ZONE EDGE LINE

TRAFFIC PATTERN

WORK AREA

TEMPORARY PAVEMENT CONSTRUCTION

TYPE III BARRICADE

COVERED OR PARTIALLY COVERED EXISTING SIGN

MOT DRUMS

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CML
CHECKED JS

MAINTENANCE OF TRAFFIC
PLAINFIELD RD & PEPPERMILL LN - PHASE 2A

HAM-PLAINFIELD RD ROUNDABOUTS

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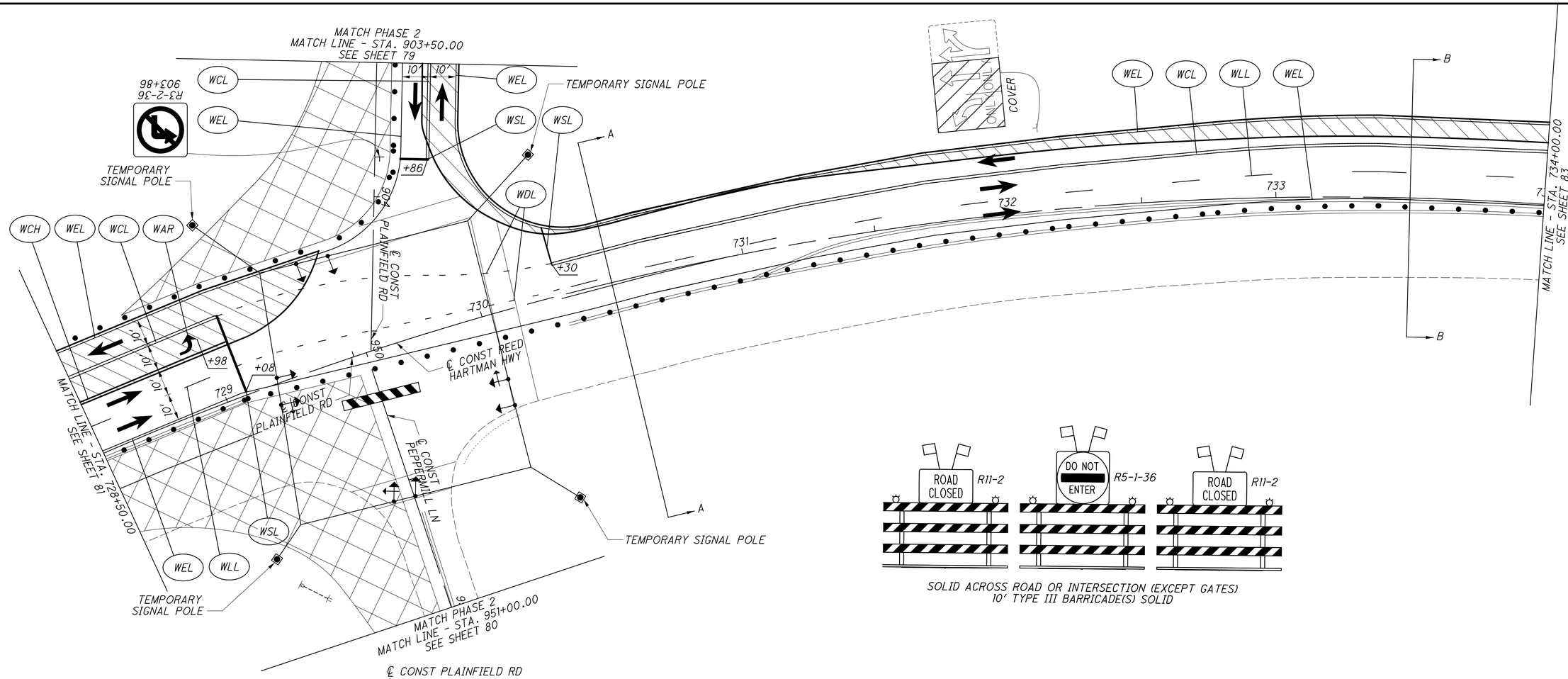
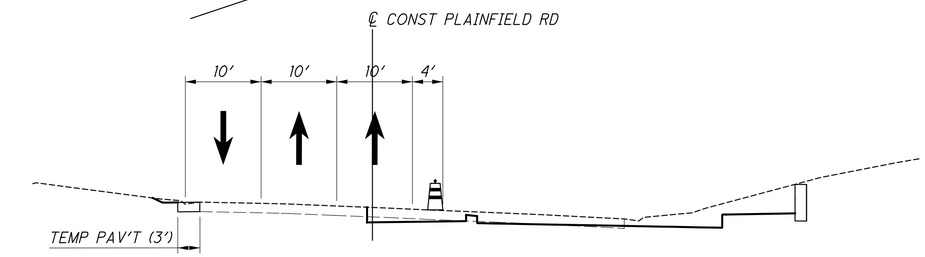
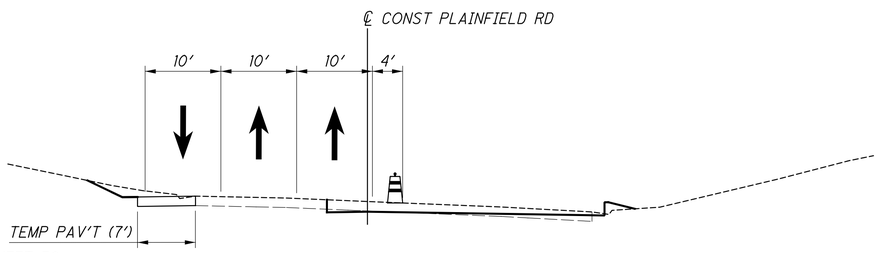


SOLID ACROSS ROAD OR INTERSECTION (EXCEPT GATES)
10' TYPE III BARRICADE(S) SOLID



SECTION A-A
STA 730+50.00



SECTION A-A
STA 733+50.00

CROSS REFERENCES
FOR DETOUR PLAN, SEE SHEET 38.
FOR TEMPORARY SIGNAL PLAN, SEE SHEET 96.
FOR TEMPORARY SIGNAL DETAILS, SEE SHEET 98.
FOR TEMPORARY WALK PHASING AND DETAILS, SEE SHEETS 36 - 37

LEGEND

WSL	WORK ZONE STOP LINE	→	TRAFFIC PATTERN
WAR	WORK ZONE LANE ARROW		WORK AREA
WCH	WORK ZONE CHANNELIZING LINE		TEMPORARY PAVEMENT CONSTRUCTION
WLL	WORK ZONE LANE LINE		TYPE III BARRICADE
WDL	WORK ZONE DOTTED LINE	ONLY ONLY	COVERED OR PARTIALLY COVERED EXISTING SIGN
WCL	WORK ZONE CENTER LINE		
WEL	WORK ZONE EDGE LINE		
WEL	WORK ZONE DOTTED LINE	• • •	MOT DRUMS

HORIZONTAL SCALE IN FEET
0 10 20 40
CALCULATED CML
CHECKED JS

MAINTENANCE OF TRAFFIC
PLAINFIELD RD & PEPPERMILL LN - PHASE 2A

HAM-PLAINFIELD RD ROUNDABOUTS

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335

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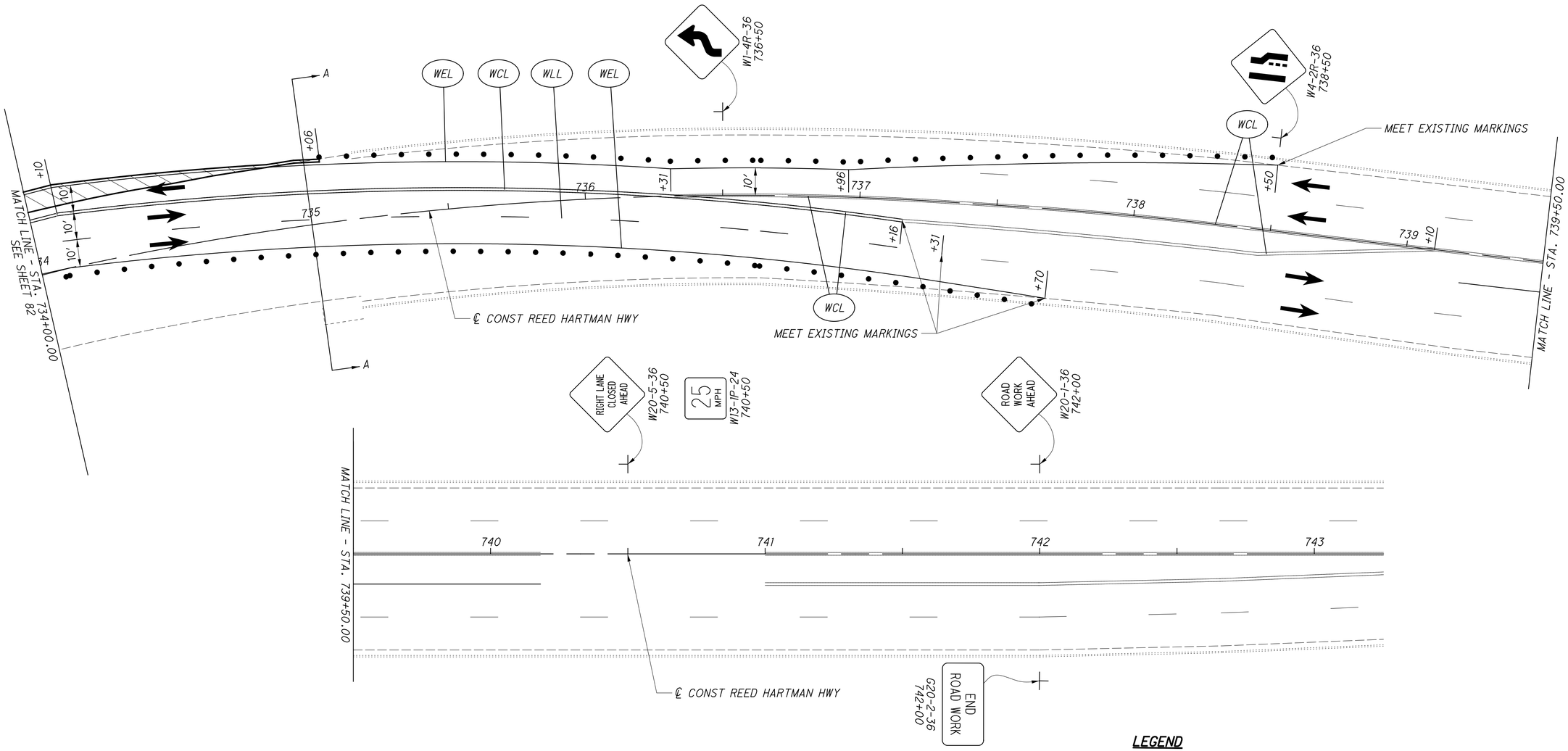

SECTION A-A
STA 735+00.00

LEGEND

WSL	WORK ZONE STOP LINE
WAR	WORK ZONE LANE ARROW
WCH	WORK ZONE CHANNELIZING LINE
WLL	WORK ZONE LANE LINE
WDL	WORK ZONE DOTTED LINE
WCL	WORK ZONE CENTER LINE
WEL	WORK ZONE EDGE LINE

TRAFFIC PATTERN

WORK AREA

TEMPORARY PAVEMENT CONSTRUCTION

TYPE III BARRICADE

COVERED OR PARTIALLY COVERED EXISTING SIGN

MOT DRUMS

HORIZONTAL SCALE IN FEET

CALCULATED CML
CHECKED JS

MAINTENANCE OF TRAFFIC
PLAINFIELD RD & PEPPERMILL LN - PHASE 2A
HAM-PLAINFIELD RD ROUNDABOUTS

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335

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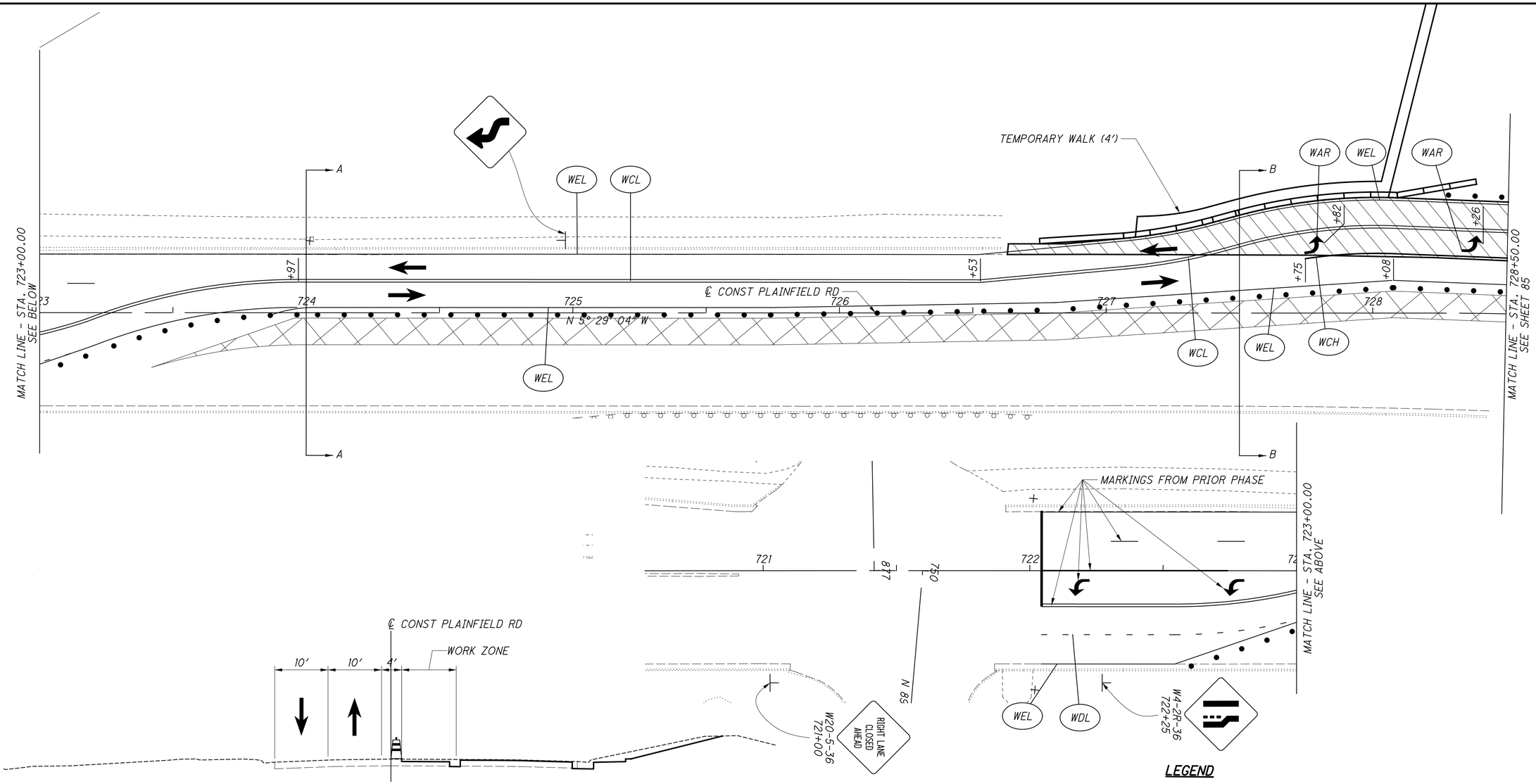
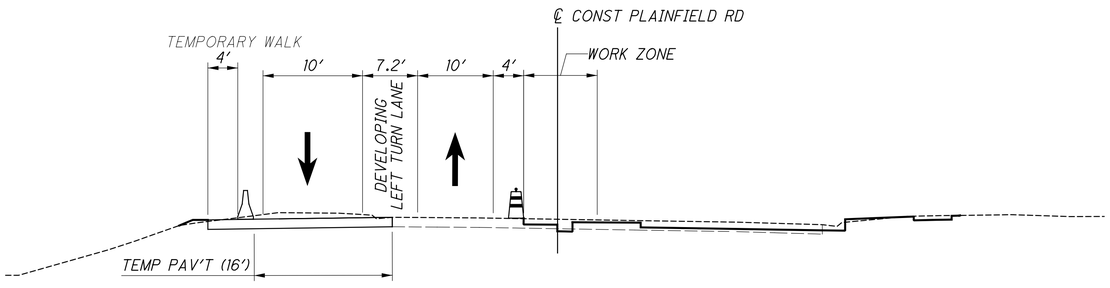


SECTION A-A
STA 724+00.00



SECTION B-B
STA 727+50.00

LEGEND

WSL	WORK ZONE STOP LINE	→	TRAFFIC PATTERN
WAR	WORK ZONE LANE ARROW		WORK AREA
WCH	WORK ZONE CHANNELIZING LINE		TEMPORARY PAVEMENT CONSTRUCTION
WLL	WORK ZONE LANE LINE		TYPE III BARRICADE
WDL	WORK ZONE DOTTED LINE	ONLY	COVERED OR PARTIALLY COVERED EXISTING SIGN
WCL	WORK ZONE CENTER LINE		
WEL	WORK ZONE EDGE LINE	• • •	MOT DRUMS

NOTE: SEE SHEETS 36 - 37 FOR TEMPORARY WALK PHASING AND DETAILS

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CML
CHECKED JS

MAINTENANCE OF TRAFFIC
PLAINFIELD RD & PEPPERMILL LN - PHASE 2B

HAM-PLAINFIELD RD ROUNDABOUTS

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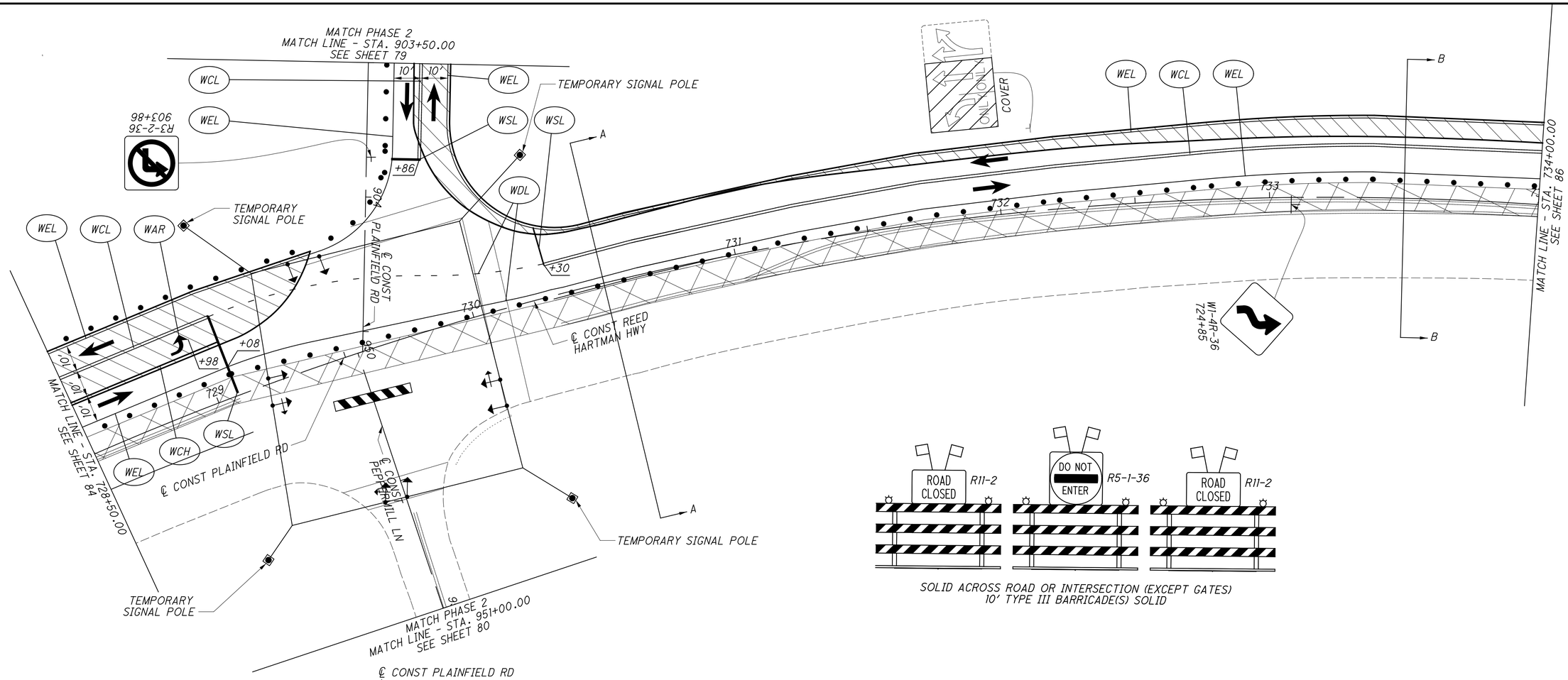
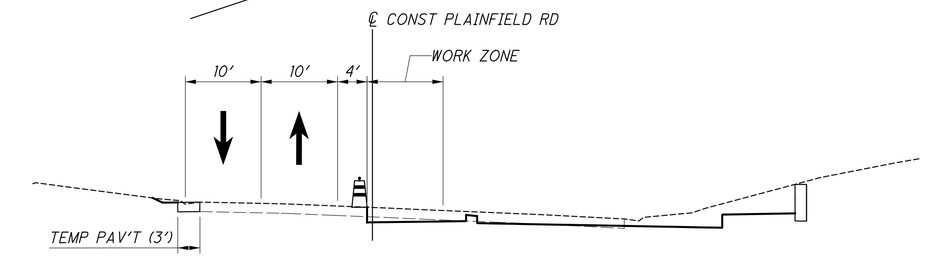
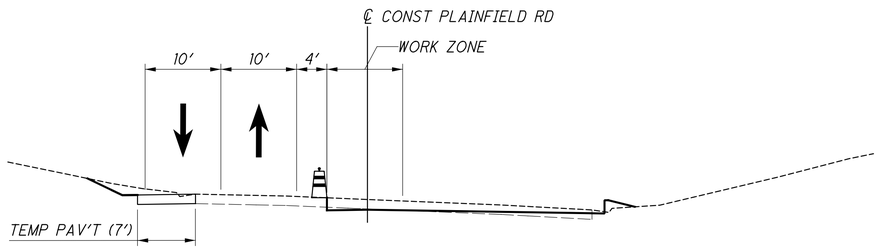


SOLID ACROSS ROAD OR INTERSECTION (EXCEPT GATES)
10' TYPE III BARRICADE(S) SOLID



SECTION A-A
STA 730+50.00



SECTION B-B
STA 733+50.00

LEGEND

WSL	WORK ZONE STOP LINE	→	TRAFFIC PATTERN
WAR	WORK ZONE LANE ARROW		WORK AREA
WCH	WORK ZONE CHANNELIZING LINE		TEMPORARY PAVEMENT CONSTRUCTION
WLL	WORK ZONE LANE LINE		TYPE III BARRICADE
WDL	WORK ZONE DOTTED LINE	ONLY ONLY	COVERED OR PARTIALLY COVERED EXISTING SIGN
WCL	WORK ZONE CENTER LINE		
WEL	WORK ZONE EDGE LINE		
WEL	WORK ZONE DOTTED LINE	• • •	MOT DRUMS

CROSS REFERENCES
FOR DETOUR PLAN, SEE SHEET 38.
FOR TEMPORARY SIGNAL PLAN, SEE SHEET 96.
FOR TEMPORARY SIGNAL DETAILS, SEE SHEET 98.
FOR TEMPORARY WALK PHASING AND DETAILS, SEE SHEETS 36 - 37

HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED CML
CHECKED JS

MAINTENANCE OF TRAFFIC
PLAINFIELD RD & PEPPERMILL LN - PHASE 2B

HAM-PLAINFIELD RD ROUNDABOUTS

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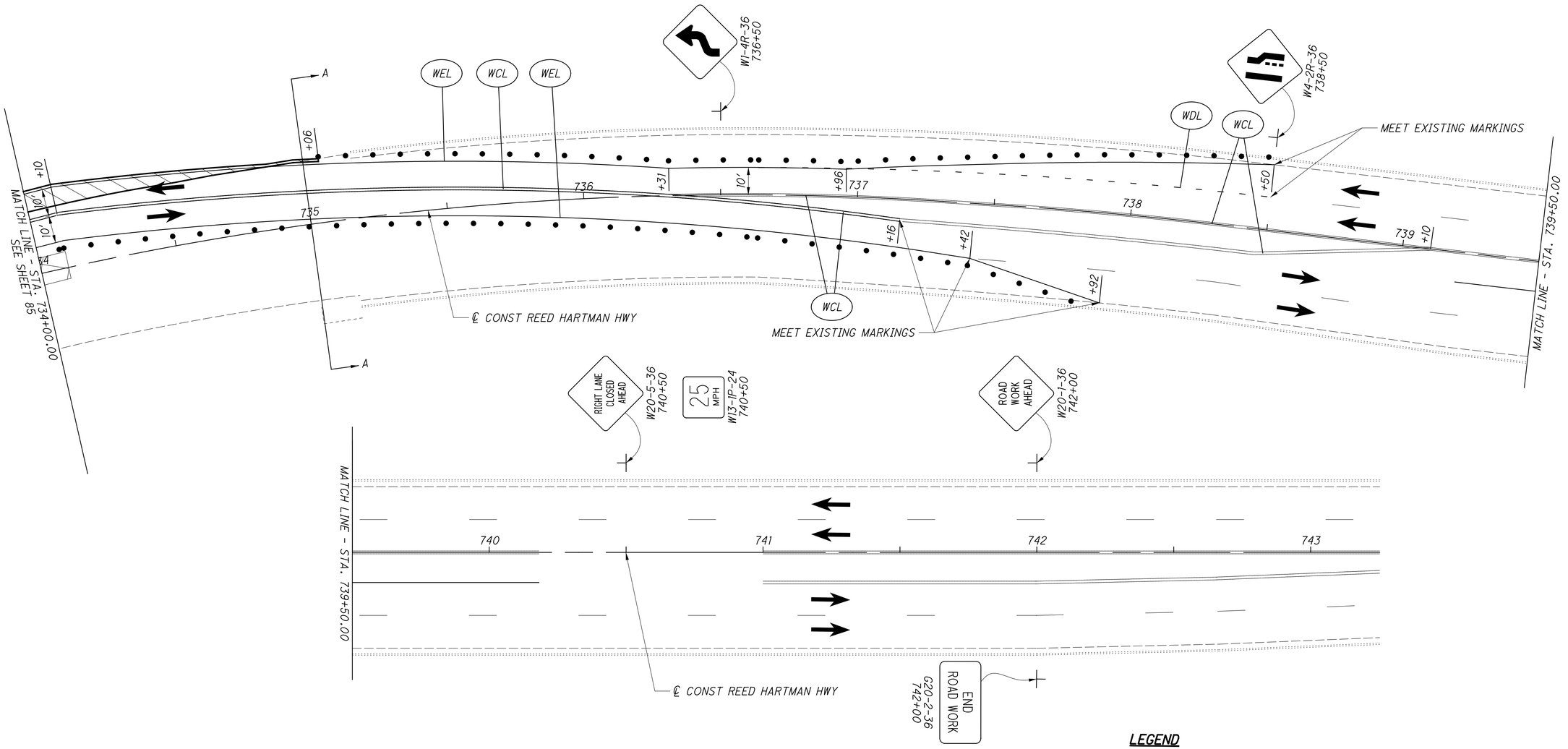

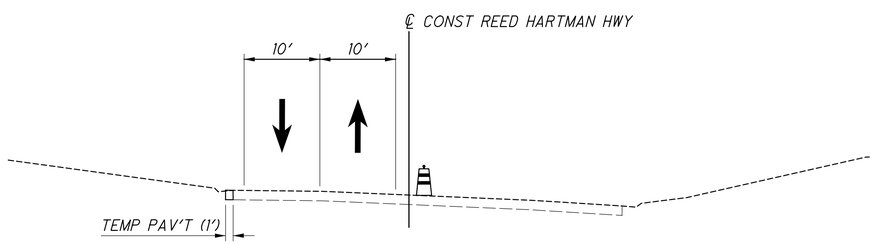

SECTION A-A
STA 735+00.00

LEGEND

WSL	WORK ZONE STOP LINE
WAR	WORK ZONE LANE ARROW
WCH	WORK ZONE CHANNELIZING LINE
WLL	WORK ZONE LANE LINE
WDL	WORK ZONE DOTTED LINE
WCL	WORK ZONE CENTER LINE
WEL	WORK ZONE EDGE LINE

TRAFFIC PATTERN

WORK AREA

TEMPORARY PAVEMENT CONSTRUCTION

TYPE III BARRICADE

COVERED OR PARTIALLY COVERED EXISTING SIGN

MOT DRUMS

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CML
CHECKED JS

MAINTENANCE OF TRAFFIC
PLAINFIELD RD & PEPPERMILL LN - PHASE 2B
HAM-PLAINFIELD RD ROUNDABOUTS

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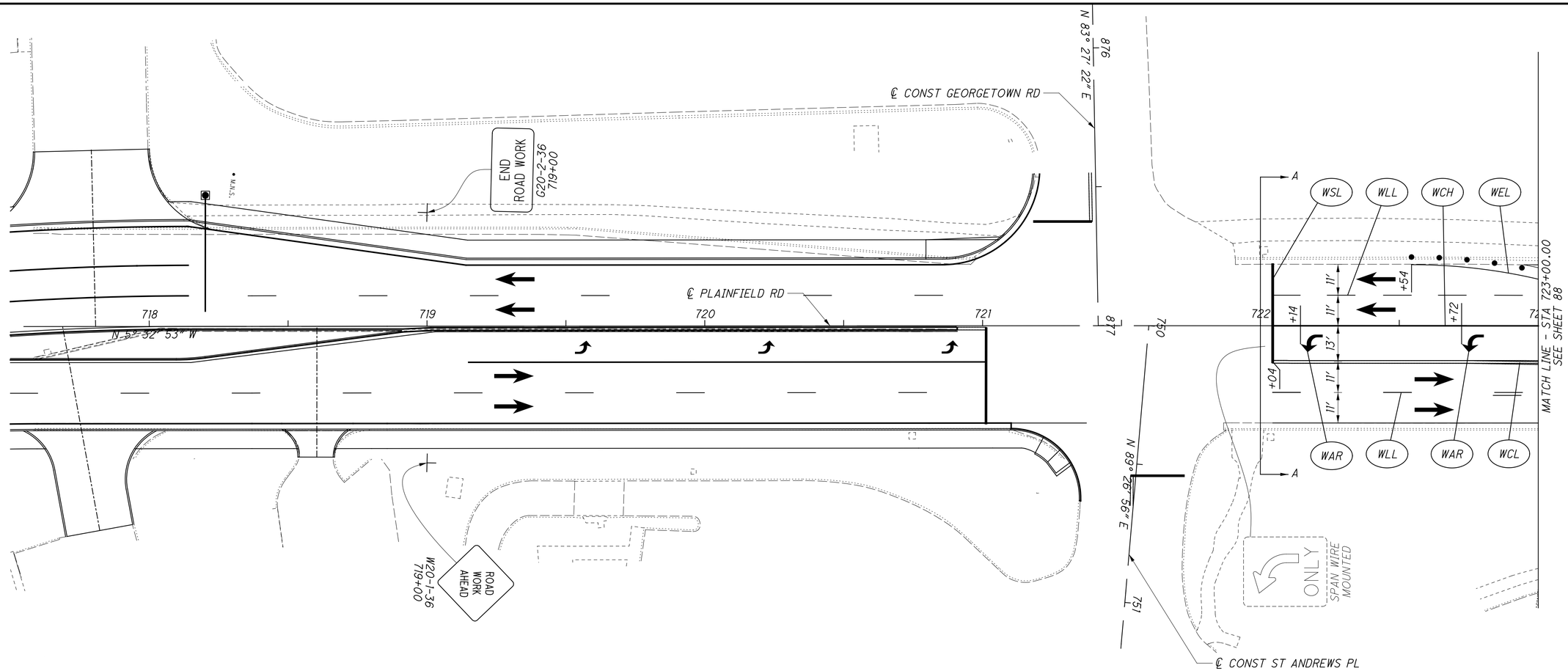

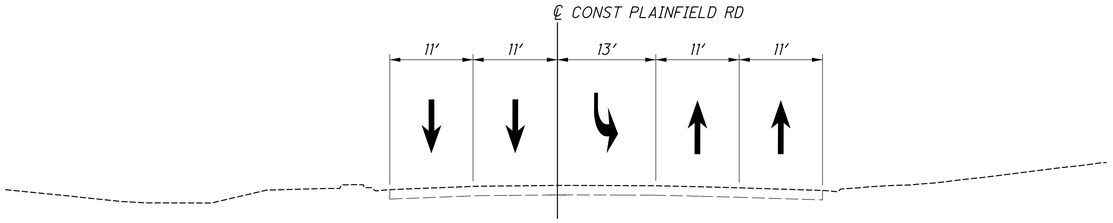

SECTION A-A
STA 722+00.00

LEGEND

WSL	WORK ZONE STOP LINE
WAR	WORK ZONE LANE ARROW
WCH	WORK ZONE CHANNELIZING LINE
WLL	WORK ZONE LANE LINE
WDL	WORK ZONE DOTTED LINE
WCL	WORK ZONE CENTER LINE
WEL	WORK ZONE EDGE LINE

TRAFFIC PATTERN

WORK AREA

TEMPORARY PAVEMENT CONSTRUCTION

TYPE III BARRICADE

COVERED OR PARTIALLY COVERED EXISTING SIGN

MOT DRUMS

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CML
CHECKED JS

MAINTENANCE OF TRAFFIC
PLAINFIELD RD & PEPPERMILL LN - PHASE 3

HAM-PLAINFIELD RD ROUNDABOUTS

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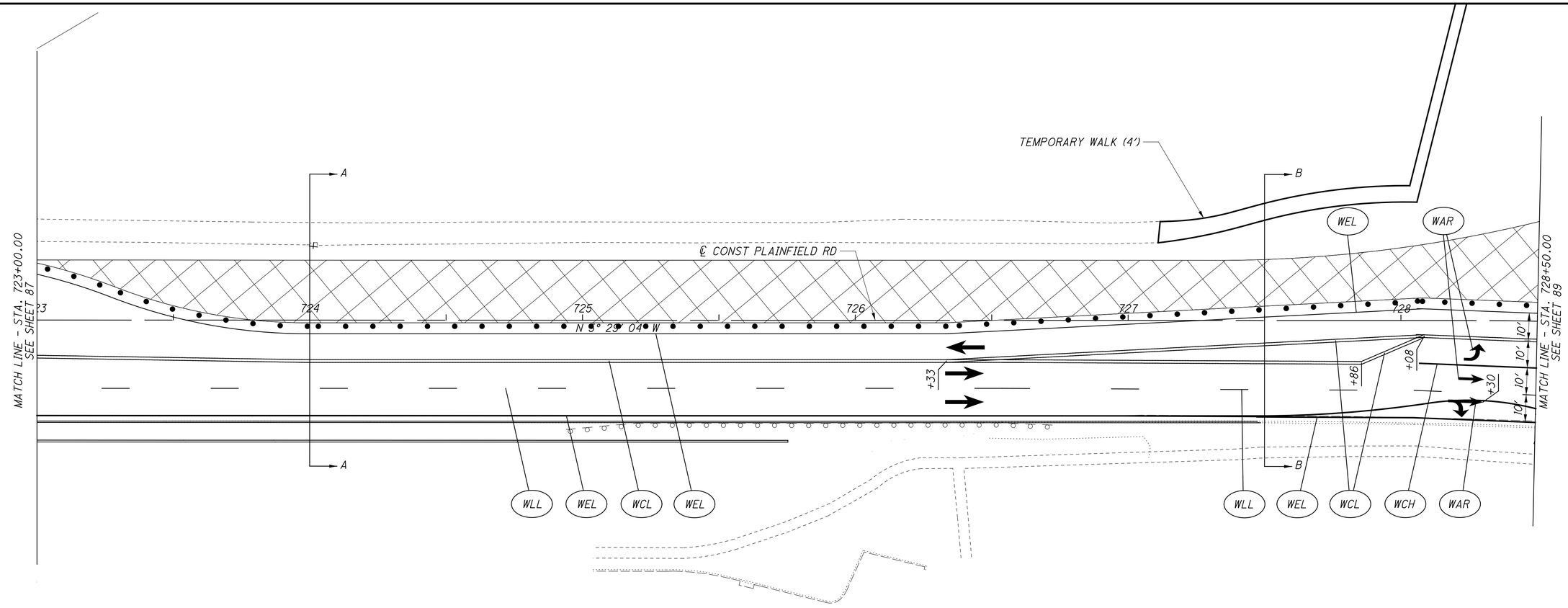
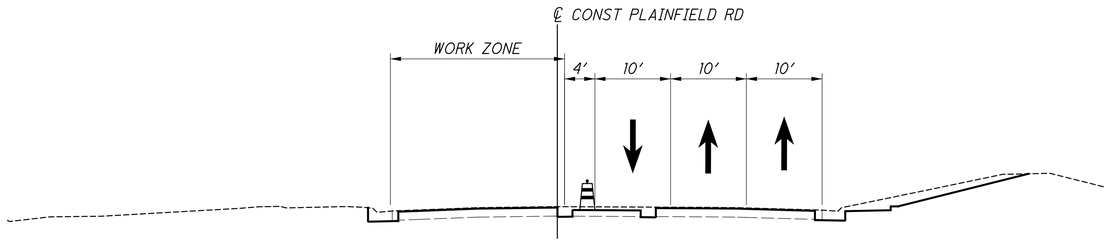
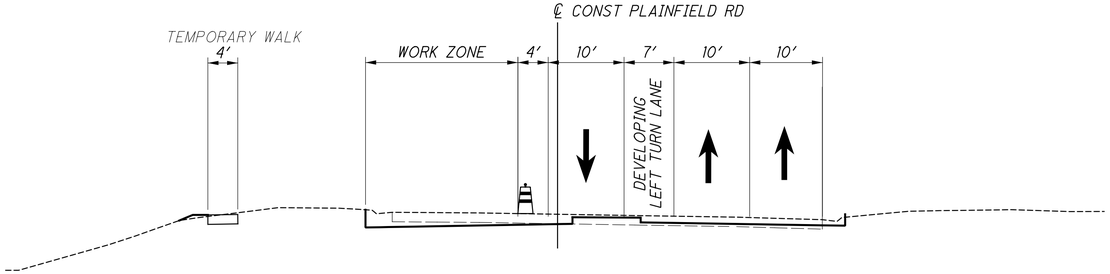




SECTION A-A
STA 724+00.00



SECTION B-B
STA 727+50.00

NOTE: SEE SHEETS 36 - 37 FOR TEMPORARY WALK PHASING AND DETAILS

LEGEND

WSL	WORK ZONE STOP LINE	→	TRAFFIC PATTERN
WAR	WORK ZONE LANE ARROW		WORK AREA
WCH	WORK ZONE CHANNELIZING LINE		TEMPORARY PAVEMENT CONSTRUCTION
WLL	WORK ZONE LANE LINE		TYPE III BARRICADE
WSL	WORK ZONE DOTTED LINE		COVERED OR PARTIALLY COVERED EXISTING SIGN
WCL	WORK ZONE CENTER LINE		MOT DRUMS
WEL	WORK ZONE EDGE LINE		

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CML
CHECKED JS

MAINTENANCE OF TRAFFIC
PLAINFIELD RD & PEPPERMILL LN - PHASE 3

HAM-PLAINFIELD RD ROUNDABOUTS

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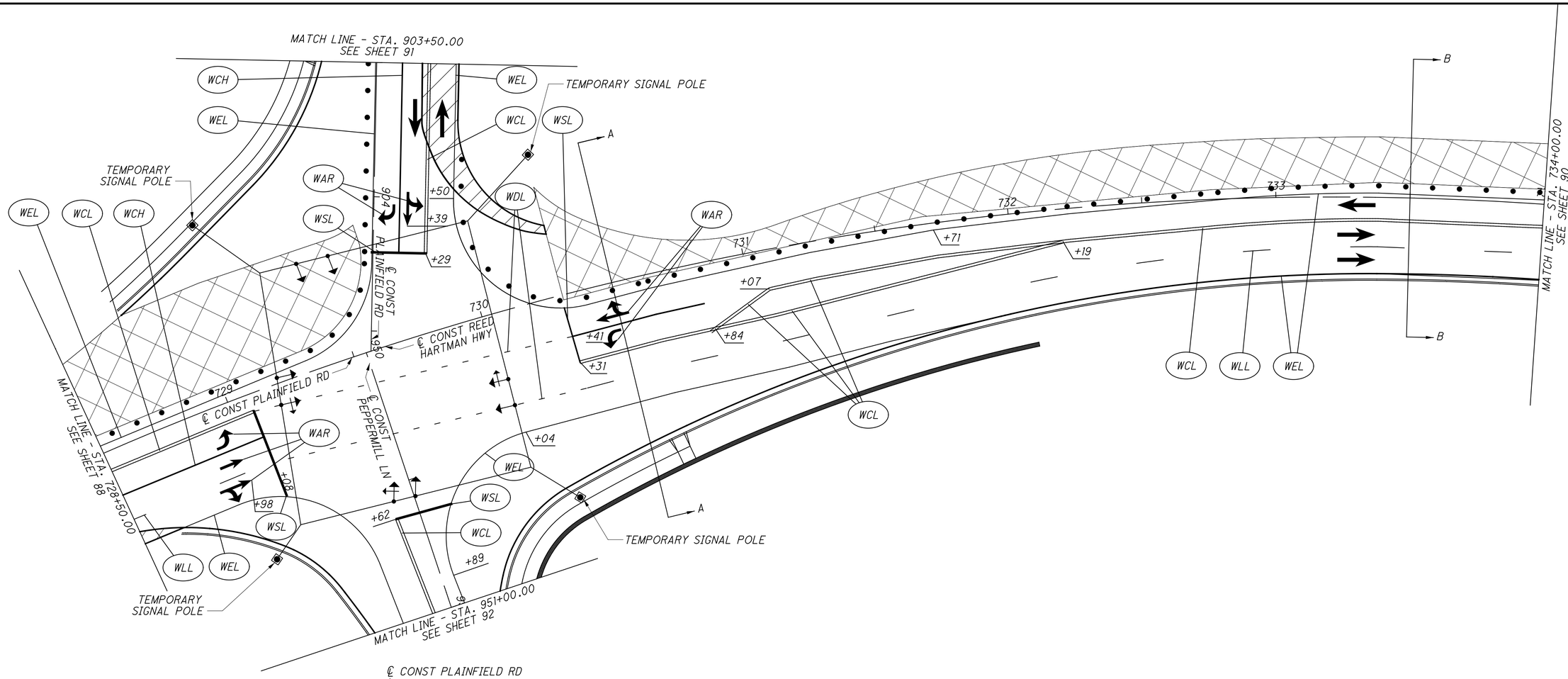
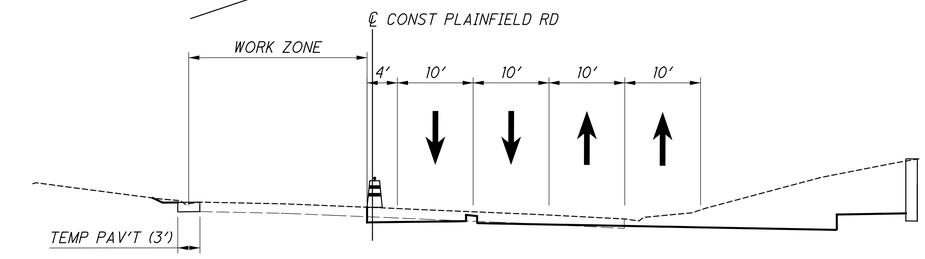
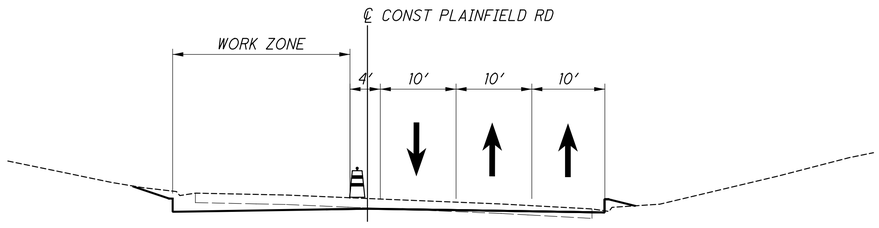




SECTION A-A
STA 730+50.00



SECTION B-B
STA 733+50.00

CROSS REFERENCES

FOR TEMPORARY SIGNAL PLAN, SEE SHEET 96.
FOR TEMPORARY SIGNAL DETAILS, SEE SHEET 98.
FOR TEMPORARY WALK PHASING AND DETAILS, SEE SHEETS 36 - 37

LEGEND

WSL	WORK ZONE STOP LINE	→	TRAFFIC PATTERN
WAR	WORK ZONE LANE ARROW		WORK AREA
WCH	WORK ZONE CHANNELIZING LINE		TEMPORARY PAVEMENT CONSTRUCTION
WLL	WORK ZONE LANE LINE		TYPE III BARRICADE
WDL	WORK ZONE DOTTED LINE	ONLY ONLY	COVERED OR PARTIALLY COVERED EXISTING SIGN
WCL	WORK ZONE CENTER LINE	• • •	MOT DRUMS
WEL	WORK ZONE EDGE LINE		

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CML
CHECKED JS

MAINTENANCE OF TRAFFIC
PLAINFIELD RD & PEPPERMILL LN - PHASE 3

HAM-PLAINFIELD RD ROUNDABOUTS

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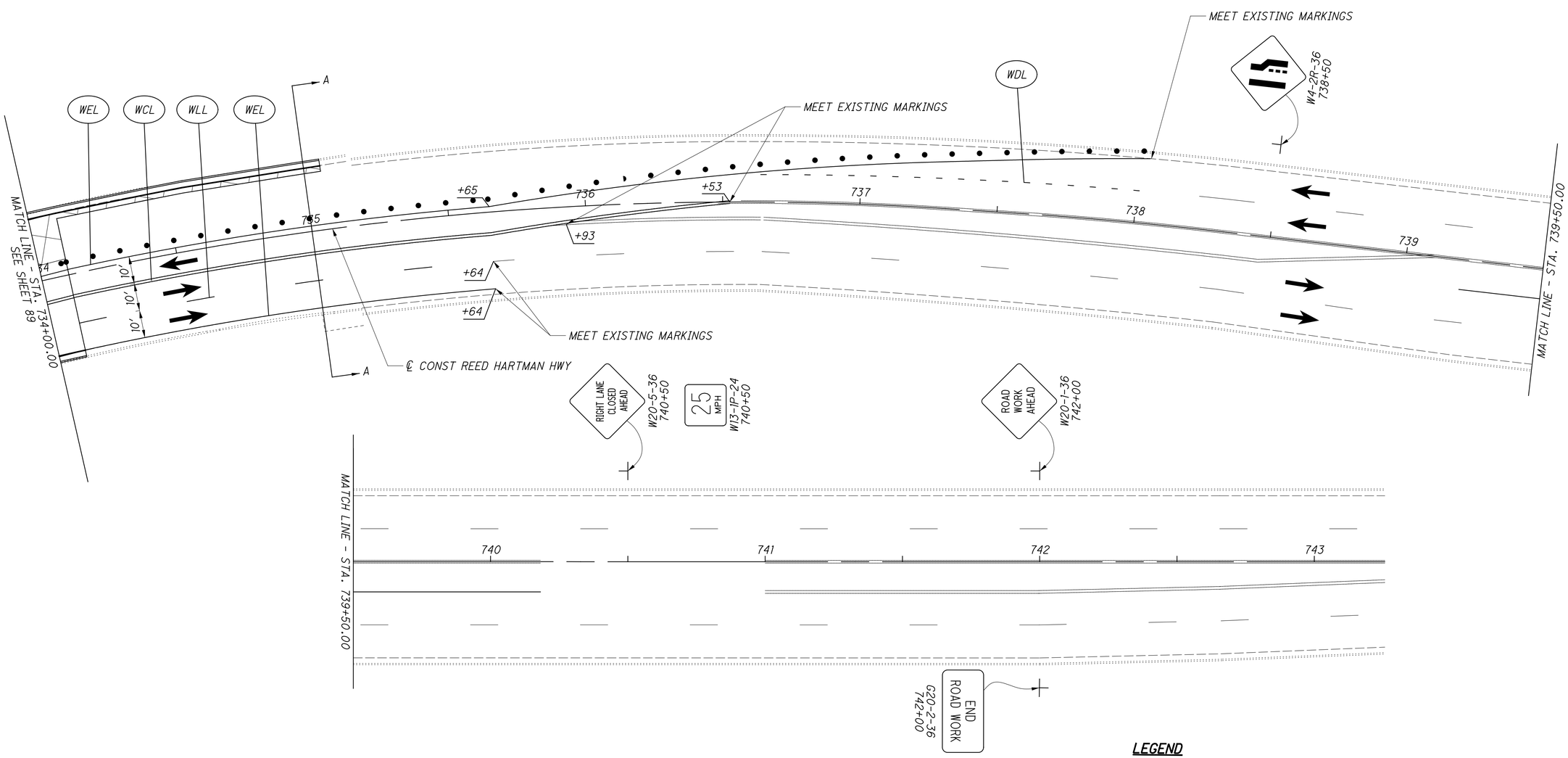

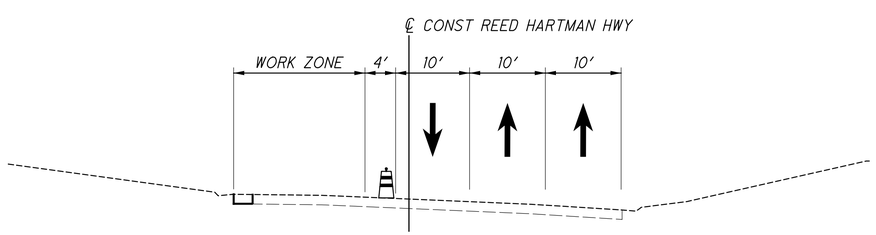

SECTION A-A
STA 735+00.00

LEGEND

WSL	WORK ZONE STOP LINE
WAR	WORK ZONE LANE ARROW
WCH	WORK ZONE CHANNELIZING LINE
WLL	WORK ZONE LANE LINE
WDL	WORK ZONE DOTTED LINE
WCL	WORK ZONE CENTER LINE
WEL	WORK ZONE EDGE LINE

TRAFFIC PATTERN

WORK AREA

TEMPORARY PAVEMENT CONSTRUCTION

TYPE III BARRICADE

COVERED OR PARTIALLY COVERED EXISTING SIGN

MOT DRUMS

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CML
CHECKED JS

MAINTENANCE OF TRAFFIC
PLAINFIELD RD & PEPPERMILL LN - PHASE 3

HAM-PLAINFIELD RD ROUNDABOUTS

90
335

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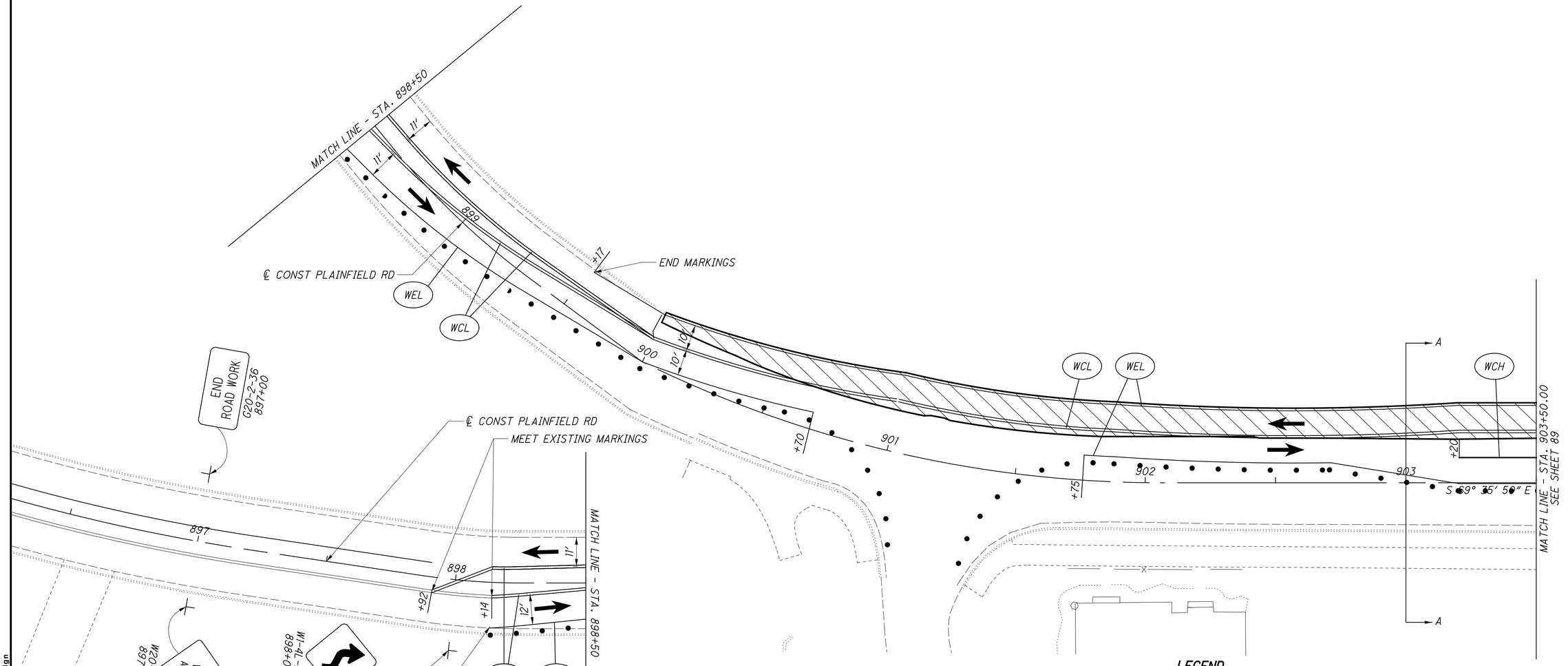

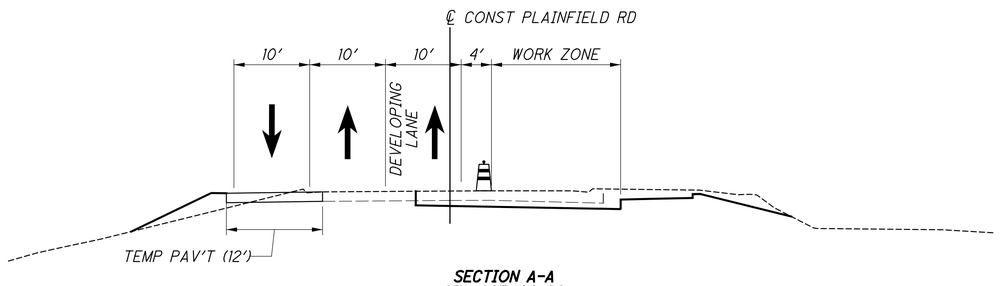

SECTION A-A
STA 903+00.00

LEGEND

WSL	WORK ZONE STOP LINE	→	TRAFFIC PATTERN
WAR	WORK ZONE LANE ARROW		WORK AREA
WCH	WORK ZONE CHANNELIZING LINE		TEMPORARY PAVEMENT CONSTRUCTION
WLL	WORK ZONE LANE LINE		TYPE III BARRICADE
WDL	WORK ZONE DOTTED LINE	ONLY ONLY	COVERED OR PARTIALLY COVERED EXISTING SIGN
WCL	WORK ZONE CENTER LINE	• • •	MOT DRUMS
WEL	WORK ZONE EDGE LINE		

N

0 10 20 40 HORIZONTAL SCALE IN FEET

CALCULATED CML CHECKED JS

MAINTENANCE OF TRAFFIC
PLAINFIELD RD & PEPPERMILL LN - PHASE 3

HAM-PLAINFIELD RD ROUNDABOUTS

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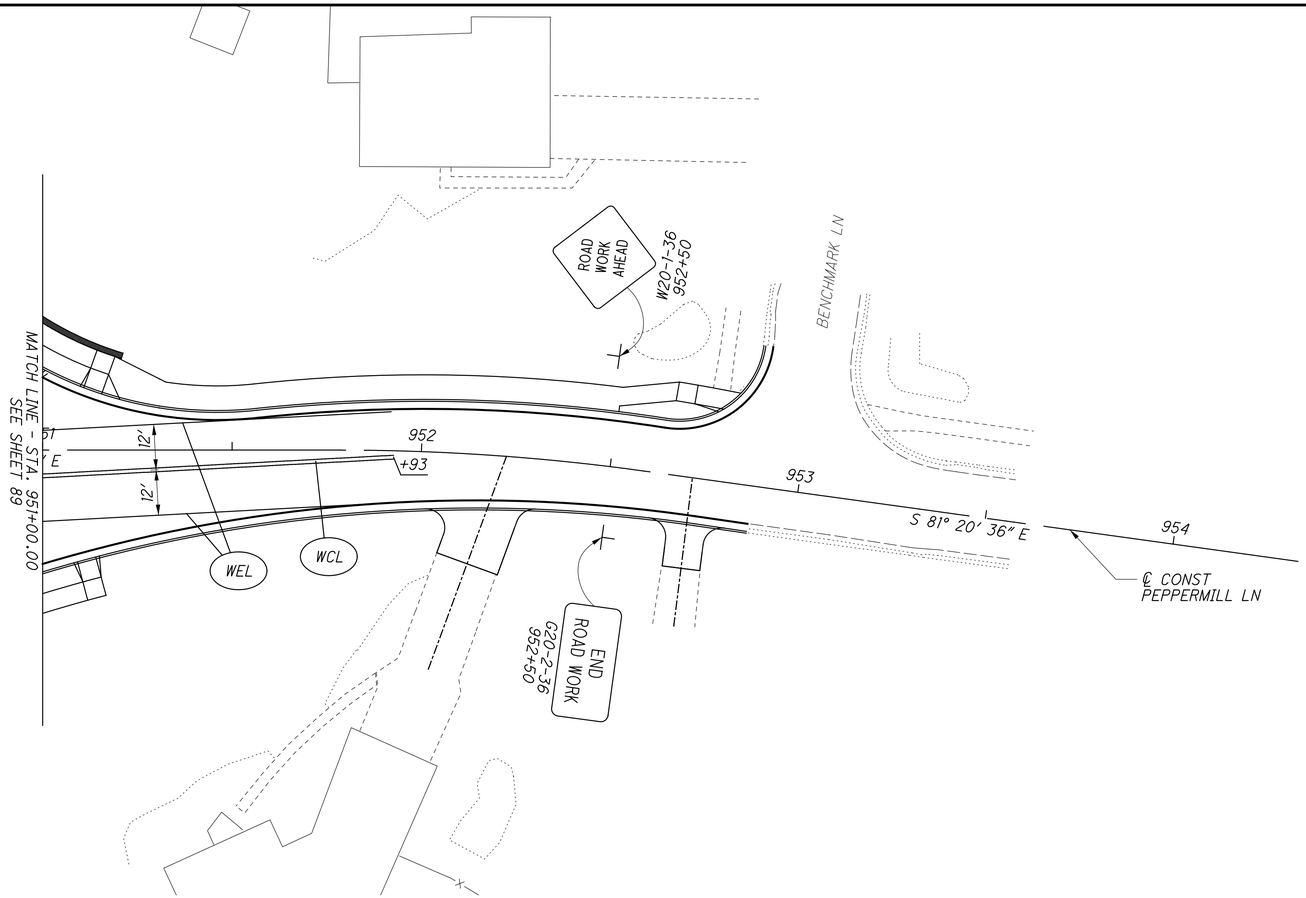

LEGEND

WSL	WORK ZONE STOP LINE	→	TRAFFIC PATTERN
WAR	WORK ZONE LANE ARROW		WORK AREA
WCH	WORK ZONE CHANNELIZING LINE		TEMPORARY PAVEMENT CONSTRUCTION
WLL	WORK ZONE LANE LINE		TYPE III BARRICADE
WDL	WORK ZONE DOTTED LINE	ONLY ONLY	COVERED OR PARTIALLY COVERED EXISTING SIGN
WCL	WORK ZONE CENTER LINE	• • •	MOT DRUMS
WEL	WORK ZONE EDGE LINE		

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CML
CHECKED JS

MAINTENANCE OF TRAFFIC
PLAINFIELD RD & PEPPERMILL LN - PHASE 3

HAM-PLAINFIELD RD ROUNDABOUTS

92
335

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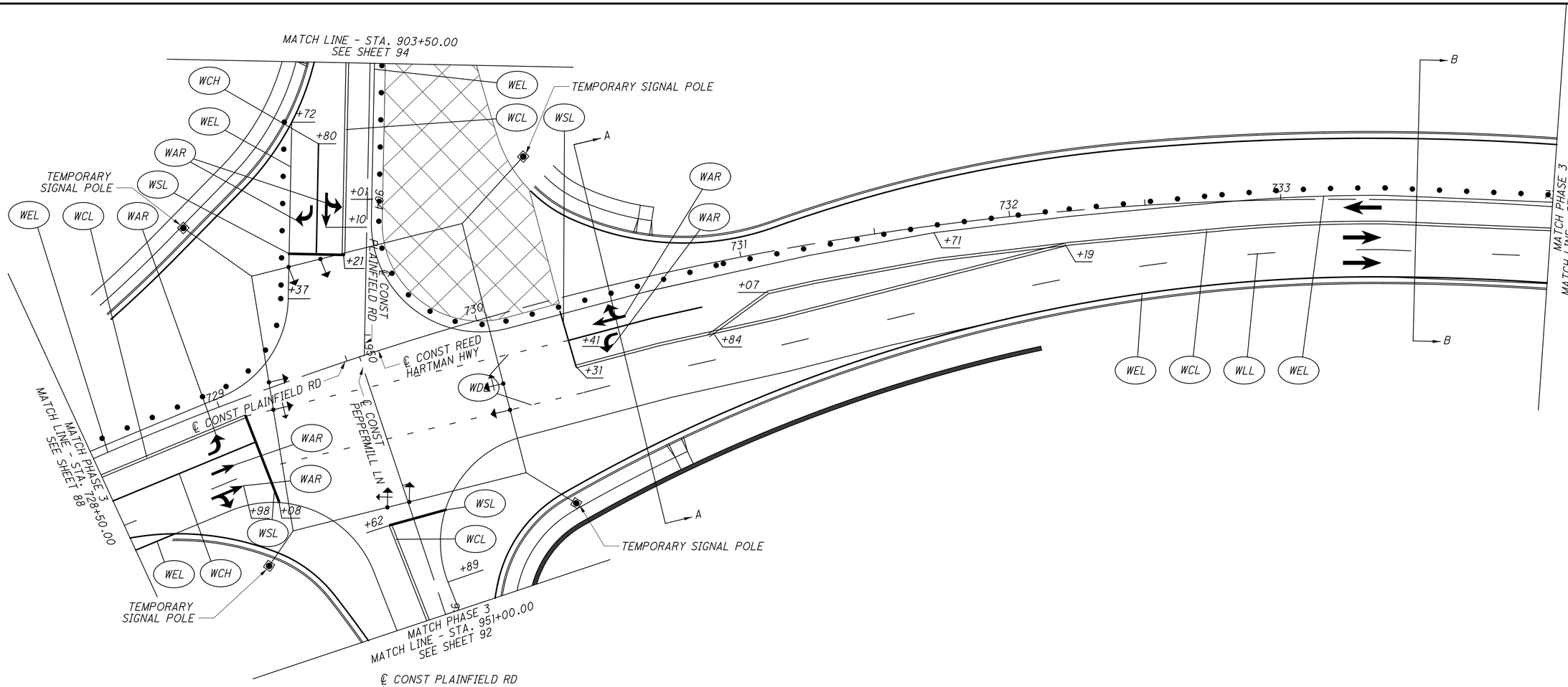
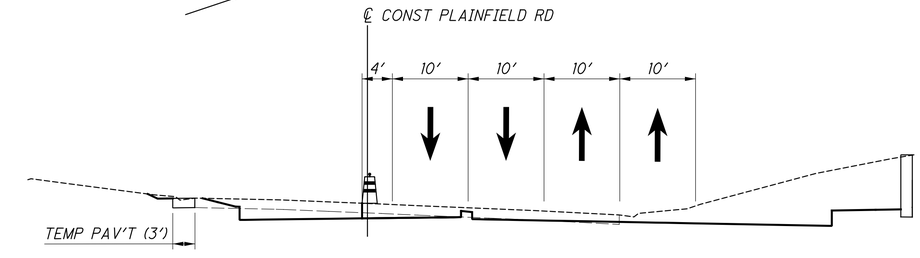
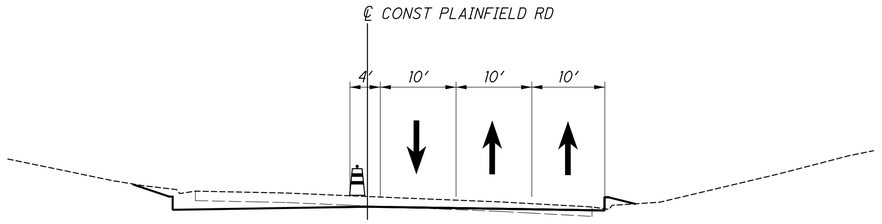




SECTION A-A
STA 730+50.00



SECTION B-B
STA 733+50.00

CROSS REFERENCES

FOR TEMPORARY SIGNAL PLAN, SEE SHEET 96.
FOR TEMPORARY SIGNAL DETAILS, SEE SHEET 98.
FOR TEMPORARY WALK PHASING AND DETAILS, SEE SHEETS 36 - 37

LEGEND

WSL	WORK ZONE STOP LINE
WAR	WORK ZONE LANE ARROW
WCH	WORK ZONE CHANNELIZING LINE
WLL	WORK ZONE LANE LINE
WDL	WORK ZONE DOTTED LINE
WCL	WORK ZONE CENTER LINE
WEL	WORK ZONE EDGE LINE

TRAFFIC PATTERN

WORK AREA

TEMPORARY PAVEMENT CONSTRUCTION

TYPE III BARRICADE

COVERED OR PARTIALLY COVERED EXISTING SIGN

MOT DRUMS

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CML
CHECKED JS

MAINTENANCE OF TRAFFIC
PLAINFIELD RD & PEPPERMILL LN - PHASE 3A

HAM-PLAINFIELD RD ROUNDABOUTS

93
335

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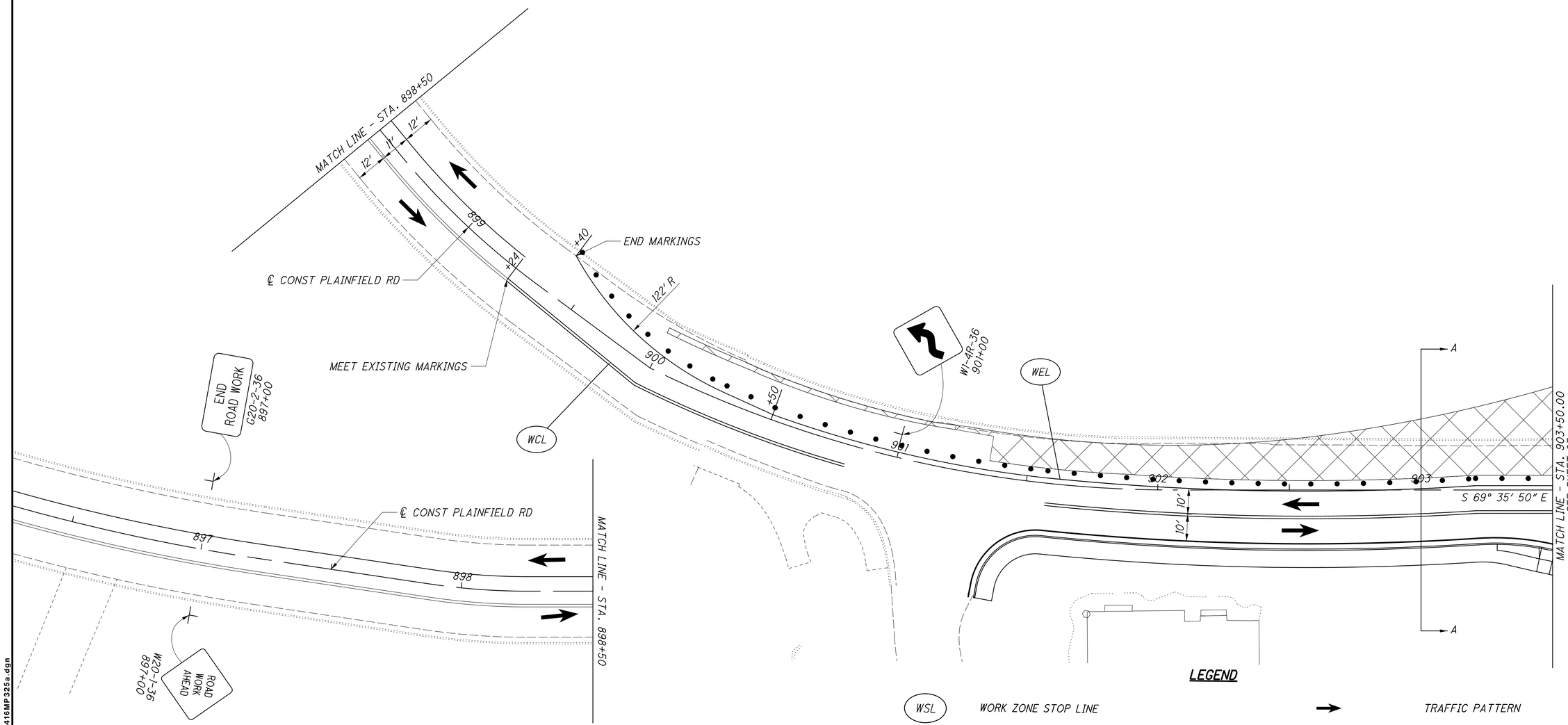

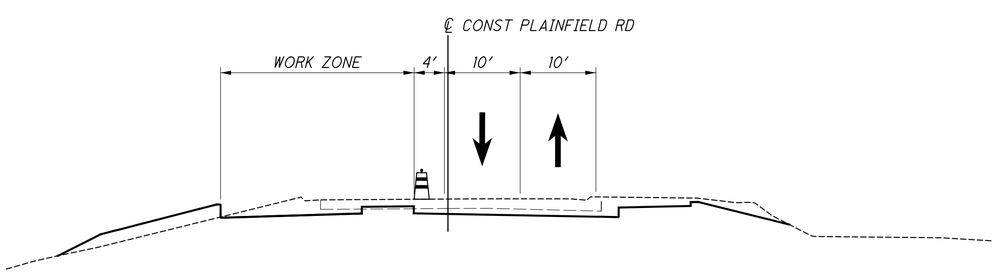

SECTION A-A
STA 903+00.00

LEGEND

WSL	WORK ZONE STOP LINE	→	TRAFFIC PATTERN
WAR	WORK ZONE LANE ARROW		WORK AREA
WCH	WORK ZONE CHANNELIZING LINE		TEMPORARY PAVEMENT CONSTRUCTION
WLL	WORK ZONE LANE LINE		TYPE III BARRICADE
WDL	WORK ZONE DOTTED LINE	ONLY ONLY	COVERED OR PARTIALLY COVERED EXISTING SIGN
WCL	WORK ZONE CENTER LINE		
WEL	WORK ZONE EDGE LINE	• • •	MOT DRUMS

0 10 20 40
HORIZONTAL SCALE IN FEET

CALCULATED CML
CHECKED JS

MAINTENANCE OF TRAFFIC
PLAINFIELD RD & PEPPERMILL LN - PHASE 3A

HAM-PLAINFIELD RD ROUNDABOUTS

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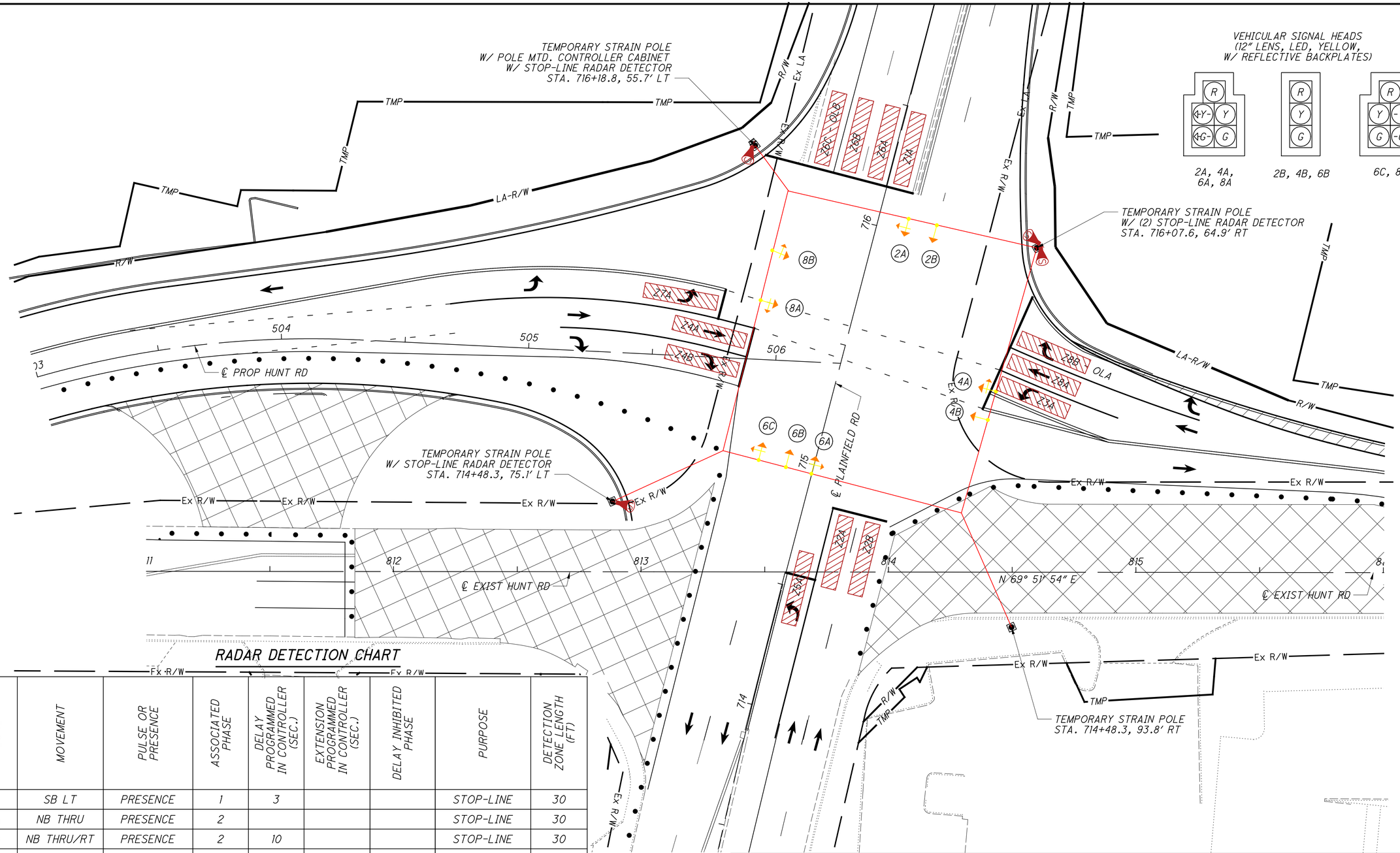

RADAR DETECTION CHART

DETECTION ZONE	MOVEMENT	PULSE OR PRESENCE	ASSOCIATED PHASE	DELAY PROGRAMMED IN CONTROLLER (SEC.)	EXTENSION PROGRAMMED IN CONTROLLER (SEC.)	DELAY INHIBITED PHASE	PURPOSE	DETECTION ZONE LENGTH (FT)
Z1A	SB LT	PRESENCE	1	3			STOP-LINE	30
Z2A	NB THRU	PRESENCE	2				STOP-LINE	30
Z2B	NB THRU/RT	PRESENCE	2	10			STOP-LINE	30
Z3A	WB LT	PRESENCE	3	3			STOP-LINE	30
Z4A	EB THRU	PRESENCE	4				STOP-LINE	30
Z4B	EB RT	PRESENCE	4	10			STOP-LINE	30
Z5A	NB LT	PRESENCE	5	3			STOP-LINE	30
Z6A	SB THRU	PRESENCE	6				STOP-LINE	30
Z6B	SB THRU	PRESENCE	6				STOP-LINE	30
Z7A	EB LT	PRESENCE	7	3			STOP-LINE	30
Z8A	WB THRU	PRESENCE	8				STOP-LINE	30
Z8B	WB RT	PRESENCE	8	10			STOP-LINE	30

LEGEND

- TEMPORARY STRAIN POLE
- POLE MTD. CONTROLLER CABINET
- SPAN MESSENGER WIRE
- TRAFFIC SIGNAL, 3 UNIT HEAD, 12"
- TRAFFIC SIGNAL, 5 UNIT HEAD, 12"
- STOP BAR RADAR DETECTION UNIT
- DETECTION ZONE
- MOT DRUMS
- TRAFFIC PATTERN
- WORK AREA
- TEMPORARY PAVEMENT CONSTRUCTION

HORIZONTAL SCALE IN FEET: 0, 10, 20, 40

CALCULATED EMS | CHECKED JS

TEMPORARY TRAFFIC SIGNAL PLAN
PLAINFIELD RD & HUNT RD - PHASE 2

HAM-PLAINFIELD RD ROUNDABOUTS

95
335

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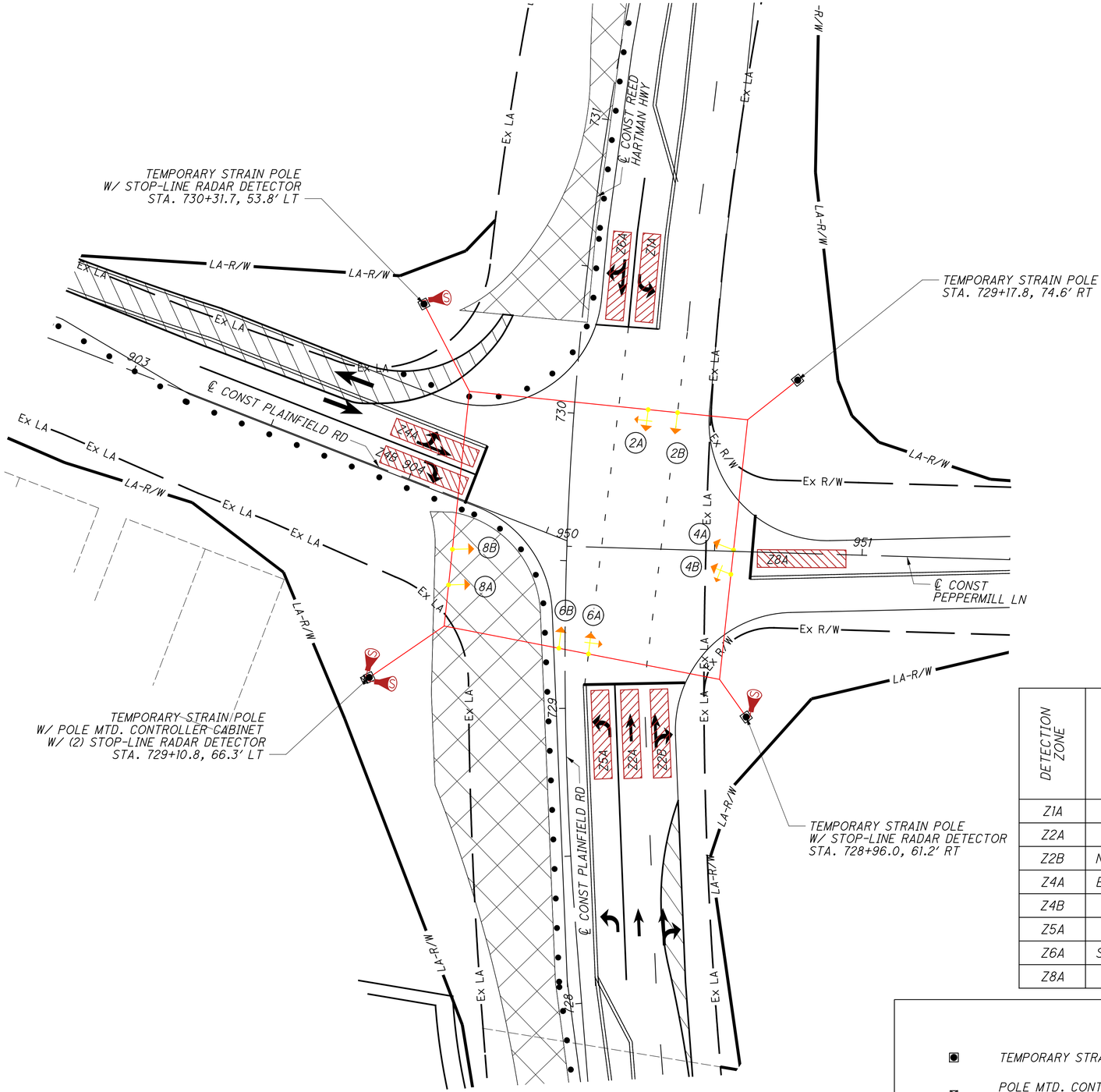
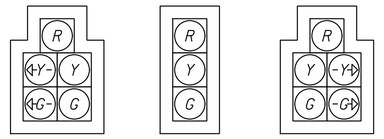


VEHICULAR SIGNAL HEADS
(12" LENS, LED, YELLOW,
W/ REFLECTIVE BACKPLATES)



DETECTION ZONE	MOVEMENT	PULSE OR PRESENCE	ASSOCIATED PHASE	DELAY PROGRAMMED IN CONTROLLER (SEC.)	EXTENSION PROGRAMMED IN CONTROLLER (SEC.)	DELAY INHIBITED PHASE	PURPOSE	DETECTION ZONE LENGTH (FT)
Z1A	SB LT	PRESENCE	1	3			STOP-LINE	30
Z2A	NB THRU	PRESENCE	2				STOP-LINE	30
Z2B	NB THRU/RT	PRESENCE	2	10			STOP-LINE	30
Z4A	EB THRU/LT	PRESENCE	4				STOP-LINE	30
Z4B	EB RT	PRESENCE	4	10			STOP-LINE	30
Z5A	NB LT	PRESENCE	5	3			STOP-LINE	30
Z6A	SB THRU/RT	PRESENCE	6	10			STOP-LINE	30
Z8A	WB	PRESENCE	8	5			STOP-LINE	30

LEGEND

- TEMPORARY STRAIN POLE
- POLE MTD. CONTROLLER CABINET
- SPAN MESSENGER WIRE
- TRAFFIC SIGNAL, 3 UNIT HEAD, 12"
- TRAFFIC SIGNAL, 5 UNIT HEAD, 12"
- STOP BAR RADAR DETECTION UNIT
- DETECTION ZONE
- MOT DRUMS
- TRAFFIC PATTERN
- WORK AREA
- TEMPORARY PAVEMENT CONSTRUCTION

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED EMS
CHECKED JS

TRAFFIC SIGNAL PLAN
TEMPORARY
PLAINFIELD RD & PEPPERMILL LN - PHASE 3

HAM-PLAINFIELD RD ROUNDABOUTS

96
335

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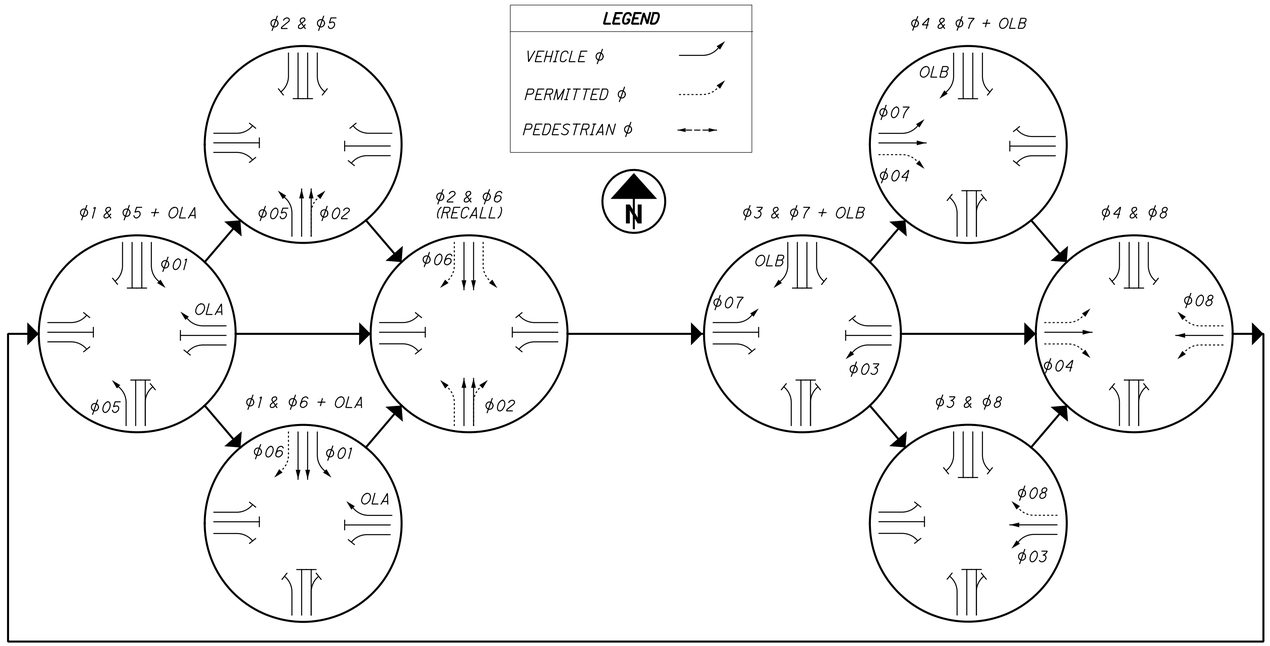
INTERSECTION: PLAINFIELD RD & HUNT RD									
MAINTAINING AGENCY: CITY OF BLUE ASH, OH									
START UP		DUAL ENTRY: YES		PHASES:		2&6, 4&8			
		REST IN RED:		RING 1	-		RING 2	-	
START IN: ALL RED		OVERLAP			A	B	C	D	
TIME FOR FLASH OR ALL RED: 9 SEC									
FIRST PHASE(S): 2 & 6		PHASES			1	7	-	-	
COLOR DISPLAYED: YELLOW									
INTERVAL OR FEATURE		CONTROLLER MOVEMENT NO.							
INTERSECTION MOVEMENT (PHASE)		1	2	3	4	5	6	7	8
DIRECTION		SB LT	NB	-	EB	NB LT	SB	-	WB
MINIMUM GREEN (INITIAL)	(SEC.)	7	10	-	7	7	10	-	7
ADDED INITIAL	*(SEC./ACTUATION)	-	-	-	-	-	-	-	-
MAXIMUM INITIAL	(SEC.)	-	-	-	-	-	-	-	-
PASSAGE TIME (PRESET GAP)	(SEC.)	-	-	-	-	-	-	-	-
TIME BEFORE REDUCTION	*(SEC.)	-	-	-	-	-	-	-	-
MINIMUM GAP	*(SEC.)	-	-	-	-	-	-	-	-
TIME TO REDUCE	*(SEC.)	-	-	-	-	-	-	-	-
MAXIMUM GREEN I	(SEC.)	-	-	-	-	-	-	-	-
MAXIMUM GREEN II	(SEC.)	-	-	-	-	-	-	-	-
YELLOW CHANGE	(SEC.)	3.5	4.5	-	4	3.5	4.5	-	4
ALL RED CLEARANCE	(SEC.)	1.4	1	-	1.1	1.4	1	-	1.1
WALK	(SEC.)	-	8	-	-	-	9	-	10
PEDESTRIAN CLEARANCE	(SEC.)	-	11	-	-	-	19	-	15
RECALL	MAXIMUM (ON/OFF)	-	-	-	-	-	-	-	-
	MINIMUM (ON/OFF)	-	ON	-	-	-	ON	-	-
	PEDESTRIAN (ON/OFF)	-	-	-	-	-	-	-	-
MEMORY	(ON/OFF)	-	-	-	-	-	-	-	-

*VOLUME DENSITY CONTROLS

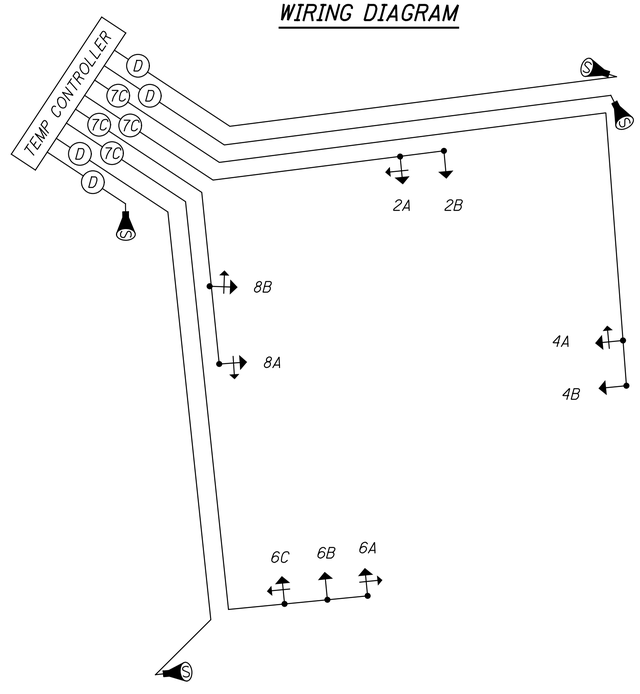
PHASING DIAGRAM



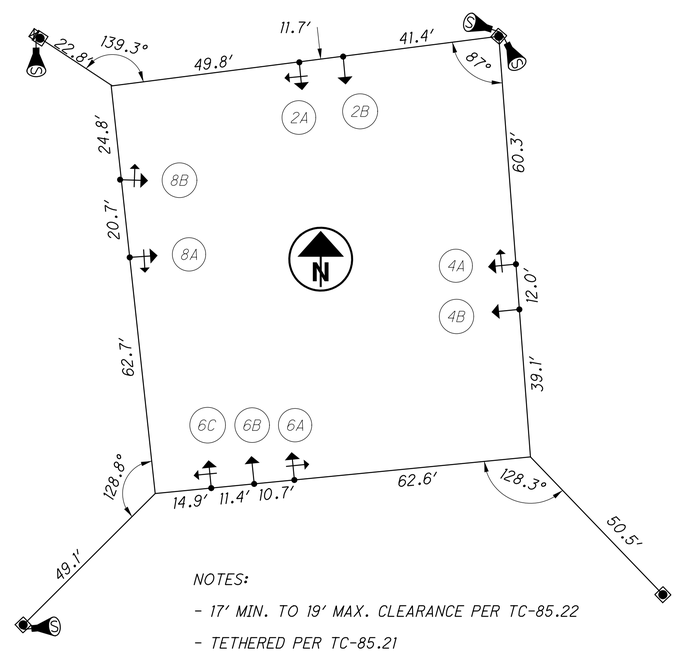
NOTES:

- ALL MOVEMENTS SHALL BE ACTUATED. THE PRIMARY THRU MOVEMENT SHOULD HAVE MIN RECALL ACTIVE TO REST IN GREEN.
- FOR PROTECTED/PERMISSIVE PHASES, IMPLEMENT CALL OMITS TO AVOID YELLOW BALL TRAP.
- ENABLE ϕ1, 3 & ϕ5, 7 DETECTOR SWITCHING TO ALLOW ϕ1 & ϕ5 TO EXTEND ϕ2 & ϕ6 OR ϕ3 & ϕ7 TO EXTEND ϕ4 & ϕ8, RESPECTIVELY, WHEN ALLOCATED GREEN TIME FOR LEFT TURN PHASES ARE EXHAUSTED.
- ALL DETECTOR DELAYS SHALL BE PLACED IN THE CONTROLLER.

WIRING DIAGRAM



SPANWIRE DETAIL



NOTES:

- 17' MIN. TO 19' MAX. CLEARANCE PER TC-85.22
- TETHERED PER TC-85.21

CALCULATED EMS
CHECKED POC

TEMPORARY TRAFFIC SIGNAL PLAN DETAIL
PLAINFIELD RD & HUNT RD - PHASE 2

HAM-PLAINFIELD RD ROUNDABOUTS

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TIMING CHART

INTERSECTION: PLAINFIELD RD & PEPPERMILL LN
MAINTAINING AGENCY: CITY OF BLUE ASH, OH

START UP
START IN: ALL RED
TIME FOR FLASH OR ALL RED: 9 SEC
FIRST PHASE(S): 2 & 6
COLOR DISPLAYED: YELLOW

DUAL ENTRY: YES | PHASES: 2&6, 4&8
REST IN RED: RING 1 - | RING 2 -

OVERLAP	A	B	C	D
PHASES	5	-	-	-

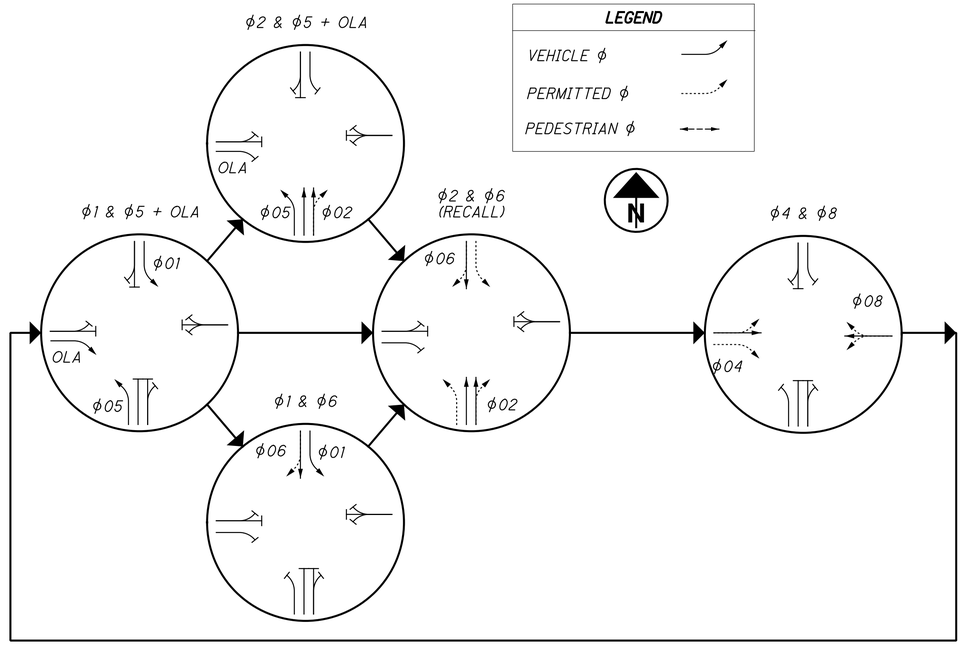
INTERVAL OR FEATURE			CONTROLLER MOVEMENT NO.							
INTERSECTION MOVEMENT (PHASE)			1	2	3	4	5	6	7	8
DIRECTION			SB LT	NB	-	EB	NB LT	SB	-	WB
MINIMUM GREEN (INITIAL)		(SEC.)	7	10	-	7	7	10	-	7
ADDED INITIAL		*(SEC./ACTUATION)	-	-	-	-	-	-	-	-
MAXIMUM INITIAL		(SEC.)	-	-	-	-	-	-	-	-
PASSAGE TIME (PRESET GAP)		(SEC.)	-	-	-	-	-	-	-	-
TIME BEFORE REDUCTION		*(SEC.)	-	-	-	-	-	-	-	-
MINIMUM GAP		*(SEC.)	-	-	-	-	-	-	-	-
TIME TO REDUCE		*(SEC.)	-	-	-	-	-	-	-	-
MAXIMUM GREEN I		(SEC.)	-	-	-	-	-	-	-	-
MAXIMUM GREEN II		(SEC.)	-	-	-	-	-	-	-	-
YELLOW CHANGE		(SEC.)	3.5	4.5	-	4	3.5	4.5	-	4
ALL RED CLEARANCE		(SEC.)	1.4	1	-	1.1	1.4	1	-	1.1
WALK		(SEC.)	-	8	-	-	-	9	-	10
PEDESTRIAN CLEARANCE		(SEC.)	-	11	-	-	-	19	-	15
RECALL	MAXIMUM	(ON/OFF)	-	-	-	-	-	-	-	-
	MINIMUM	(ON/OFF)	-	ON	-	-	-	ON	-	-
	PEDESTRIAN	(ON/OFF)	-	-	-	-	-	-	-	-
MEMORY		(ON/OFF)	-	-	-	-	-	-	-	-

*VOLUME DENSITY CONTROLS

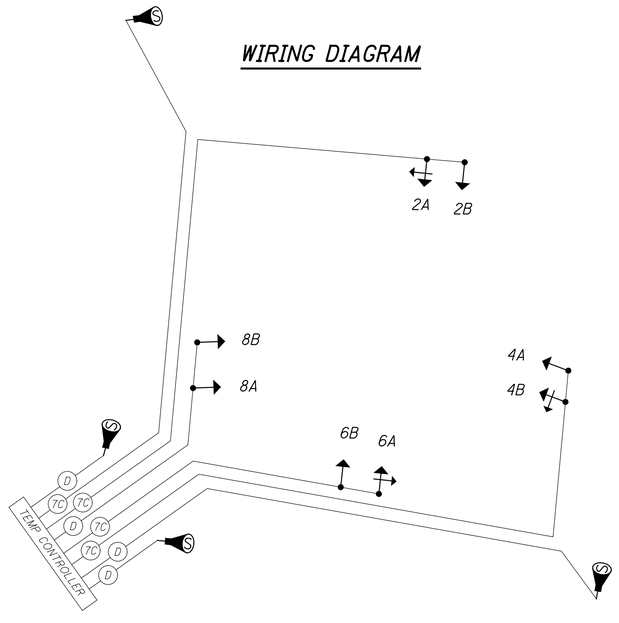
NOTES:

- ALL MOVEMENTS SHALL BE ACTUATED. THE PRIMARY THRU MOVEMENT SHOULD HAVE MIN RECALL ACTIVE TO REST IN GREEN.
- FOR PROTECTED/PERMISSIVE PHASES, IMPLEMENT CALL OMITS TO AVOID YELLOW BALL TRAP.
- ENABLE ϕ1 & 5 DETECTOR SWITCHING TO ALLOW ϕ1 & ϕ5 TO EXTEND ϕ2 & ϕ6 WHEN ALLOCATED GREEN TIME FOR LEFT TURN PHASES ARE EXHAUSTED.
- ALL DETECTOR DELAYS SHALL BE PLACED IN THE CONTROLLER.

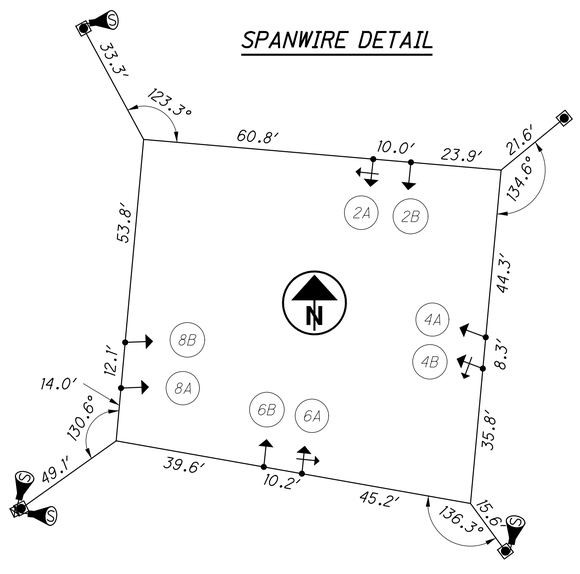
PHASING DIAGRAM



WIRING DIAGRAM



SPANWIRE DETAIL



NOTES:

- 17' MIN. TO 19' MAX. CLEARANCE PER TC-85.22
- TETHERED PER TC-85.21

CALCULATED EMS
CHECKED POC

TEMPORARY TRAFFIC SIGNAL PLAN DETAIL
PLAINFIELD RD & PEPPERMILL LN - PHASE 3

HAM-PLAINFIELD RD ROUNDABOUTS

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SHEET NUM.												PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
OFFICE CALCS	32			104	108	112	116	118	123			STP/HSIP /CMAQ	100% LOCAL						
																		ROADWAY	
LS												LS		201	11000	LS		CLEARING AND GRUBBING	
					1								1	202	20010	1	EACH	HEADWALL REMOVED	
				38,824								34,920	3,904	202	23000	38,824	SY	PAVEMENT REMOVED	
					22,958							18,747	4,211	202	30000	22,958	SF	WALK REMOVED	
					1,056							1,056		202	30600	1,056	SY	CONCRETE MEDIAN REMOVED	
					3,802							3,097	705	202	32000	3,802	FT	CURB REMOVED	
					8,347							6,727	1,620	202	32500	8,347	FT	CURB AND GUTTER REMOVED	
					203								203	202	32800	203	SY	CONCRETE SLOPE PROTECTION REMOVED	
					3,367							2,620	747	202	35100	3,367	FT	PIPE REMOVED, 24" AND UNDER	
					7								7	202	35200	7	FT	PIPE REMOVED, OVER 24"	
					203							203		202	38000	203	FT	GUARDRAIL REMOVED	
					13							8	5	202	58000	13	EACH	MANHOLE REMOVED	
					37							32	5	202	58100	37	EACH	CATCH BASIN REMOVED	
					645							645		202	75000	645	FT	FENCE REMOVED	
					1							1		202	98100	1	EACH	REMOVAL MISC.: PRIVATE SIGN	
					34							34		202	98200	34	FT	REMOVAL MISC.: SLOTTED DRAIN	
12,700												10,689	2,011	203	10000	12,700	CY	EXCAVATION	
2,674												1,822	852	203	20000	2,674	CY	EMBANKMENT	
								1,771				1,537	234	204	10000	1,771	SY	SUBGRADE COMPACTION	
							14					12	2	204	45000	14	HOUR	PROOF ROLLING	
							793					667.7	125.3	206	10500	793	TON	CEMENT	
							26,242					22,093	4,149	206	11000	26,242	SY	CURING COAT	
							26,242					22,093	4,149	206	15020	26,242	SY	CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP	
LS												LS		206	30000	LS		MIXTURE DESIGN FOR CHEMICALLY STABILIZED SOILS	
							11,057					10,486	571	254	01000	11,057	SY	PAVEMENT PLANING, ASPHALT CONCRETE	
						25						25		606	15050	25	FT	GUARDRAIL, TYPE MGS	
						516						516		607	98000	516	FT	FENCE, MISC.: SPLIT RAIL FENCE WITH WOVEN WIRE	
						34,783						31,009	3,774	608	12000	34,783	SF	5" CONCRETE WALK	
						2,357						1,947	410	608	52000	2,357	SF	CURB RAMP	
LS												LS		878	25000	LS		INSPECTION AND COMPACTION TESTING OF UNBOUND MATERIALS	
																		EROSION CONTROL	
									1.78				1.78	601	21050	1.78	SY	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT	
	2											2		659	00100	2	EACH	SOIL ANALYSIS TEST	
	1,894											1,631	263	659	00300	1,894	CY	TOPSOIL, SHREDDED 4"	
	17,063											14,691	2,372	659	10001	17,063	SY	SEEDING AND MULCHING, AS PER PLAN	
	853											734	119	659	14000	853	SY	REPAIR SEEDING AND MULCHING	
	853											734	119	659	15000	853	SY	INTER-SEEDING	
	2.34											2.02	0.32	659	20000	2.34	TON	COMMERCIAL FERTILIZER	
	3.49											3	0.49	659	31000	3.49	ACRE	LIME	
	94											81	13	659	35000	94	MGAL	WATER	
LS												LS		832	15000	LS		STORM WATER POLLUTION PREVENTION PLAN	
LS												LS		832	15002	LS		STORM WATER POLLUTION PREVENTION INSPECTIONS	
LS												LS		832	15010	LS		STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE	
68,197												68,197		832	30000	68,197	EACH	EROSION CONTROL	

CALCULATED LZS CHECKED JS

GENERAL SUMMARY

HAM-PLAINFIELD RD ROUNDABOUTS

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SHEET NUM.												PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
OFFICE CALCS	31	112	116	118	121	123	125					STP/HSIP /CMAQ	100% LOCAL						
																		DRAINAGE	
						10,656						9,130	1,526	605	11100	10,656	FT	6" SHALLOW PIPE UNDERDRAINS	
	500											500		605	13300	500	FT	6" UNCLASSIFIED PIPE UNDERDRAINS	
						783						652	131	611	00510	783	FT	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	
					2,016							1,607	409	611	04400	2,016	FT	12" CONDUIT, TYPE B	
					341							318	23	611	04600	341	FT	12" CONDUIT, TYPE C	
					665							665		611	05900	665	FT	15" CONDUIT, TYPE B	
					10							10		611	06100	10	FT	15" CONDUIT, TYPE C	
					1,103							790	313	611	07400	1,103	FT	18" CONDUIT, TYPE B	
					171							171		611	07600	171	FT	18" CONDUIT, TYPE C	
					132							132		611	09100	132	FT	21" CONDUIT, TYPE C	
					81								81	611	10400	81	FT	24" CONDUIT, TYPE B	
					72								72	611	10600	72	FT	24" CONDUIT, TYPE C	
					10								10	611	20900	10	FT	48" CONDUIT, TYPE B	
					23							18	5	611	98150	23	EACH	CATCH BASIN, NO. 3	
					30							26	4	611	98180	30	EACH	CATCH BASIN, NO. 3A	
					1							1		611	98370	1	EACH	CATCH BASIN, NO. 6	
					1								1	611	98470	1	EACH	CATCH BASIN, NO. 2-2B	
					6							5	1	611	98630	6	EACH	CATCH BASIN ADJUSTED TO GRADE	
					29							21	8	611	99574	29	EACH	MANHOLE, NO. 3	
					1							±	1	611	99586	1	EACH	MANHOLE, NO. 3 WITH 108" BASE I.D. AND 12" WEIR	
					7		10					17		611	99654	17	EACH	MANHOLE ADJUSTED TO GRADE	
						1							1	611	99710	1	EACH	PRECAST REINFORCED CONCRETE OUTLET	
					1								1	895	10040	1	EACH	MANUFACTURED WATER QUALITY STRUCTURE, TYPE 4	
																		PAVEMENT	
			11,057									10,486	571	254	01000	11,057	SY	PAVEMENT PLANING, ASPHALT CONCRETE	
	8		4,084	246								3,716	622	301	46000	4,338	CY	ASPHALT CONCRETE BASE, PG64-22	
			4,374									3,682	692	304	20000	4,374	CY	AGGREGATE BASE	
			1,602									1,423	179	407	10000	1,602	GAL	TACK COAT	
				35								31	4	407	20000	35	GAL	NON-TRACKING TACK COAT	
			1,190									1,039	151	441	50000	1,190	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22	
			971									824	147	441	50300	971	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)	
				37								33	4	441	50401	37	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), (DRIVEWAYS), AS PER PLAN	
			147									147		442	20000	147	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (448)	
			49									49		442	20200	49	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (448)	
				44								44		452	11010	44	SY	7" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P	
				695								584	111	452	13010	695	SY	9" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P	
		9,178										7,200	1,978	609	12000	9,178	FT	COMBINATION CURB AND GUTTER, TYPE 2	
		10,458										7,289	3,169	609	26000	10,458	FT	CURB, TYPE 6	
		300										300		609	28000	300	FT	CURB, TYPE 7	
		332										332		609	30000	332	FT	CURB, TYPE 8	
		869										634	235	609	31000	869	FT	COMBINATION CURB AND GUTTER, TYPE 9	
		170										110	60	609	54000	170	SY	6" CONCRETE TRAFFIC ISLAND	
		4,020										2,799	1,221	609	96000	4,020	SY	MEDIAN, MISC.: BRICK PAVERS, AS PER PLAN	
																		WATER WORK	
							3					3		638	07608	3	EACH	VALVE BOX	
							5					5		638	07800	5	EACH	6" GATE VALVE AND VALVE BOX	
							5					5		638	10200	5	EACH	6" FIRE HYDRANT	
							6					5	1	638	10480	6	EACH	FIRE HYDRANT REMOVED	
							18					17	1	638	10800	18	EACH	VALVE BOX ADJUSTED TO GRADE	
							6					6		638	10900	6	EACH	SERVICE BOX ADJUSTED TO GRADE	
																		OTHER UTILITIES	
							17					17		SPECIAL	61199700	17	EACH	GAS VALVE BOX ADJUSTED TO GRADE	

CALCULATED LZS CHECKED JS

GENERAL SUMMARY

HAM-PLAINFIELD RD ROUNDABOUTS

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SHEET NUM.												PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
257	260	264	266	285	286			302		313		STP/HSIP /CMAQ	100% LOCAL						
																		LIGHTING	
										84		70	14	625	00450	84	EACH	CONNECTION, FUSED PULL APART	
										42		35	7	625	00460	42	EACH	CONNECTION, UNFUSED PULL APART	
										108		99	9	625	00480	108	EACH	CONNECTION, UNFUSED PERMANENT	
										42		35	7	625	02500	42	EACH	TRANSFORMER BASE, TYPE AT-A	
										4		4		625	10490	4	EACH	LIGHT POLE, CONVENTIONAL (30')	
										38		31	7	625	10490	38	EACH	LIGHT POLE, CONVENTIONAL (40')	
										42		35	7	625	14100	42	EACH	LIGHT POLE FOUNDATION, 24" X 8' DEEP	
										42		35	7	625	17960	42	EACH	BRACKET ARM, 8'	
										20,229		17,802	2,427	625	23000	20,229	FT	NO. 4 AWG 600 VOLT DISTRIBUTION CABLE	
										4,372		3,630	742	625	23400	4,372	FT	NO. 10 AWG POLE AND BRACKET CABLE	
										5,551		4,913	638	625	25402	5,551	FT	CONDUIT, 2", 725.05	
										822		711	111	625	25902	822	FT	CONDUIT, JACKED OR DRILLED, 725.04, 3"	
										10		3	7	625	26253	10	EACH	LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN (105W - 12,750 LUMENS)	
										30		30		625	26253	30	EACH	LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN (145W - 16,200 LUMENS)	
										2		2		625	26253	2	EACH	LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN (165W - 21,350 LUMENS)	
										5,551		4,913	638	625	29002	5,551	FT	TRENCH, 24" DEEP	
										32		27	5	625	30510	32	EACH	PULL BOX, 725.06, SIZE 4	
										45		37	8	625	32000	45	EACH	GROUND ROD	
										3		2	1	625	34001	3	EACH	POWER SERVICE, AS PER PLAN	
																		TRAFFIC CONTROL	
		458.4										368.6	89.8	630	02100	458.4	FT	GROUND MOUNTED SUPPORT, NO. 2 POST	
		591										507.8	83.2	630	03100	591	FT	GROUND MOUNTED SUPPORT, NO. 3 POST	
		204										187	17	630	06100	204	FT	GROUND MOUNTED SUPPORT, NO. 6 POST	
		23										18	5	630	08600	23	EACH	SIGN POST REFLECTOR	
		2										2		630	72520	2	EACH	OVERHEAD SIGN SUPPORT, TYPE TC-16.22, DESIGN 7	
		2										2		630	72530	2	EACH	OVERHEAD SIGN SUPPORT, TYPE TC-16.22, DESIGN 9	
		1										1		630	72550	1	EACH	OVERHEAD SIGN SUPPORT, TYPE TC-16.22, DESIGN 13	
		3										3		630	79000	3	EACH	SIGN HANGER ASSEMBLY, SPAN WIRE	
		11										11		630	79100	11	EACH	SIGN HANGER ASSEMBLY, MAST ARM	
		1,353.4										1,173.9	179.5	630	80100	1,353.4	SF	SIGN, FLAT SHEET	
		5										5		630	84510	5	EACH	RIGID OVERHEAD SIGN SUPPORT FOUNDATION	
			56									51	5	630	84900	56	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
			7									7		630	85100	7	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	
			43									38	5	630	86002	43	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
			4									4		630	86010	4	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND REERECTION	
			29									29		630	87400	29	EACH	REMOVAL OF OVERHEAD MOUNTED SIGN AND DISPOSAL	
			62									61	1	630	87500	62	EACH	REMOVAL OF POLE MOUNTED SIGN AND DISPOSAL	
			1									1		630	87520	1	EACH	REMOVAL OF POLE MOUNTED SIGN AND REERECTION	
			3									3		630	89702	3	EACH	REMOVAL OF OVERHEAD SIGN SUPPORT AND DISPOSAL	
								39				35	4	630	97700	39	EACH	SIGNING, MISC.: RECTANGULAR RAPID FLASHING BEACON (RRFB) SIGN ASSEMBLY	
1.69												1.35	0.34	644	00100	1.69	MILE	EDGE LINE, 4"	
0.36												0.36		644	00104	0.36	MILE	EDGE LINE, 6"	
0.6												0.6		644	00200	0.6	MILE	LANE LINE, 4"	
0.02												0.02		644	00204	0.02	MILE	LANE LINE, 6"	
0.11												0.07	0.04	644	00300	0.11	MILE	CENTER LINE	
3,279												3,072	207	644	00400	3,279	FT	CHANNELIZING LINE, 8"	
104												104		644	00404	104	FT	CHANNELIZING LINE, 12"	
302												260	42	644	00500	302	FT	STOP LINE	
	1,970											1,790	180	644	00600	1,970	FT	CROSSWALK LINE	
55												55		644	00700	55	FT	TRANSVERSE/DIAGONAL LINE	
100												100		644	00900	100	SF	ISLAND MARKING	
	77											72	5	644	01300	77	EACH	LANE ARROW	
	3											3		644	01400	3	EACH	WORD ON PAVEMENT, 72"	
	437											437		644	01500	437	FT	DOTTED LINE, 4"	

CALCULATED LZS CHECKED JS

GENERAL SUMMARY

HAM-PLAINFIELD RD ROUNDABOUTS

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SHEET NUM.												PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
257	260	264		285	286	287	288		302			STP/HSIP /CMAQ	100% LOCAL						
	813											813		644	01510	813	FT	DOTTED LINE, 6"	
	333											333		644	01514	333	FT	DOTTED LINE, 8"	
	523											406	117	644	01520	523	FT	DOTTED LINE, 12"	
258												197	61	644	20800	258	FT	YIELD LINE	
0.06												0.06		646	10100	0.06	MILE	LANE LINE, 4"	
0.03												0.03		646	10200	0.03	MILE	CENTER LINE	
311												311		646	10300	311	FT	CHANNELIZING LINE, 8"	
11												11		646	10400	11	FT	STOP LINE	
	21											21		646	20502	21	FT	DOTTED LINE, 4"	
																		TRAFFIC SIGNALS	
				26	31				1,239			1,190	106	625	25402	1,296	FT	CONDUIT, 2", 725.05	
				82	102							184		625	25502	184	FT	CONDUIT, 3", 725.05	
				6	6							12		625	25602	12	FT	CONDUIT, 4", 725.05	
					4,503							4,503		625	25750	4,503	FT	CONDUIT, 4", MULTICELL, 725.20 , EPC-40	
				246	236				809			1,186	105	625	25902	1,291	FT	CONDUIT, JACKED OR DRILLED, 725.04	
				109	92				1,239			1,334	106	625	29002	1,440	FT	TRENCH, 24" DEEP	
					2,258							2,258		625	29010	2,258	FT	TRENCH, 30" DEEP	
									6			4	2	625	30500	6	EACH	PULL BOX, 725.06, SIZE 1.5	
				5	2							7		625	30706	7	EACH	PULL BOX, 725.08, 24"	
					10							10		625	30710	10	EACH	PULL BOX, 725.08, 32"	
					1							1		625	30730	1	EACH	PULL BOX, 725.08, 48", TYPE 1	
						14			43			53	4	625	32000	57	EACH	GROUND ROD	
				14								14		630	03100	14	FT	GROUND MOUNTED SUPPORT, NO. 3 POST	
				2	4							6		630	79100	6	EACH	SIGN HANGER ASSEMBLY, MAST ARM	
				6	6							12		630	79500	12	EACH	SIGN SUPPORT ASSEMBLY, POLE MOUNTED	
				27	33							60		630	80100	60	SF	SIGN, FLAT SHEET	
				3	4							7		630	80500	7	EACH	SIGN, DOUBLE FACED, STREET NAME	
						17						17		632	05006	17	EACH	VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE	
						2						2		632	05086	2	EACH	VEHICULAR SIGNAL HEAD, (LED), 5-SECTION, 12" LENS, 1-WAY, POLYCARBONATE	
						10						10		632	20730	10	EACH	PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN	
						19						19		632	25000	19	EACH	COVERING OF VEHICULAR SIGNAL HEAD	
						9						9		632	25010	9	EACH	COVERING OF PEDESTRIAN SIGNAL HEAD	
						6			4			10		632	26000	10	EACH	PEDESTRIAN PUSHBUTTON	
				644	410							1,054		632	40300	1,054	FT	SIGNAL CABLE, 3 CONDUCTOR, NO. 14 AWG	
				660	1,079							1,739		632	40500	1,739	FT	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG	
				1,019	860				2,450			4,173	156	632	40700	4,329	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG	
						7						7		632	64010	7	EACH	SIGNAL SUPPORT FOUNDATION	
						5			43			44	4	632	64020	48	EACH	PEDESTAL FOUNDATION	
									3,248			3,063	185	632	67200	3,248	FT	POWER CABLE, 2 CONDUCTOR, NO. 8 AWG	
				50	61							111		632	68200	111	FT	POWER CABLE, 2 CONDUCTOR, NO. 6 AWG	
				81	45							126		632	69800	126	FT	SERVICE CABLE, 3 CONDUCTOR, NO. 6 AWG	
							2					2		632	70000	2	EACH	POWER SERVICE	
						2						2		632	80202	2	EACH	SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 2	
						1						1		632	80402	1	EACH	SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 4	
						3						3		632	80602	3	EACH	SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 12	
						1						1		632	80620	1	EACH	SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 13	
									4			4		632	89802	4	EACH	PEDESTAL, 5', TRANSFORMER BASE	
						5						5		632	89900	5	EACH	PEDESTAL, 8', TRANSFORMER BASE	
							2					2		632	90100	2	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION	
							2					2				2		ITEM CODE DOES NOT EXIST IN ITEM MASTER	
							2					2		633	67101	2	EACH	CABINET FOUNDATION, AS PER PLAN	
							2					2		633	67201	2	EACH	CONTROLLER WORK PAD, AS PER PLAN	
							2					2		633	75001	2	EACH	UNINTERRUPTIBLE POWER SUPPLY (UPS), 1000 WATT, AS PER PLAN	
						6						6		809	69100	6	EACH	STOP LINE RADAR DETECTION	

CALCULATED LZS CHECKED JS

GENERAL SUMMARY

HAM-PLAINFIELD RD ROUNDABOUTS

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SHEET NUM.												PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
OFFICE CALCS		33	35				287	288		324		STP/HSIP /CMAQ	100% LOCAL						
																		LANDSCAPING	
												LS		661	99940	LS		PLANTING, MISC.: SOFT LANDSCAPING AT ROUNDABOUTS	
																		RETAINING WALLS	
										LS		LS		503	21300	LS		UNCLASSIFIED EXCAVATION	
										481		481		507	00400	481	FT	STEEL PILES, MISC.: SOLDIER PILES (HP12X53)	1/8
										7,269		7,269		509	10000	7,269	LB	EPOXY COATED REINFORCING STEEL	
										54		54		511	46010	54	CY	CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING	
										9		9		511	46510	9	CY	CLASS QC1 CONCRETE, FOOTING	
										24		24		512	33000	24	SY	TYPE 2 WATERPROOFING	
										504		504		513	20000	504	EACH	WELDED STUD SHEAR CONNECTORS	1/8
										14		14		516	13600	14	SF	1" PREFORMED EXPANSION JOINT FILLER	
										18		18		518	21200	18	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	
										237		237		518	40000	237	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	
										30		30		518	40010	30	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	
										292		292		524	94503	292	FT	DRILLED SHAFTS, 24" DIAMETER, ABOVE BEDROCK, AS PER PLAN	1/8
										236		236		524	94505	236	FT	DRILLED SHAFTS, 24" DIAMETER, INTO BEDROCK, AS PER PLAN	1/8
										1,406		1,406		610	50010	1,406	SF	RETAINING WALL, MISC.: TIMBER LAGGING	1/8
										1,406		1,406		610	50010	1,406	SF	RETAINING WALL, MISC.: PREFABRICATED GEOCOMPOSITE DRAIN	1/8
																		MAINTENANCE OF TRAFFIC	
		1,344										1,344		608	21200	1,344	SF	TEMPORARY ASPHALT CONCRETE WALK	
		9										7	2	611	98634	9	EACH	CATCH BASIN RECONSTRUCTED TO GRADE	
			250									250		614	11110	250	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
		1										1		614	12380	1	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	
		LS										LS		614	12420	LS		DETOUR SIGNING	
		0.95										0.95		614	20000	0.95	MILE	WORK ZONE LANE LINE, CLASS I, 4"	
		2.96										2.13	0.83	614	21000	2.96	MILE	WORK ZONE CENTER LINE, CLASS I	
		5.67										4.19	1.48	614	22000	5.67	MILE	WORK ZONE EDGE LINE, CLASS I, 4"	
		9,177										7,778	1,399	614	23000	9,177	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 8"	
		2,905										2,601	304	614	24000	2,905	FT	WORK ZONE DOTTED LINE, CLASS I	
		56										56		614	25000	56	FT	WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS I	
		747										687	60	614	26000	747	FT	WORK ZONE STOP LINE, CLASS I	
		83										63	20	614	30000	83	EACH	WORK ZONE ARROW, CLASS I	
		7,584										6,560	1,024	615	20000	7,584	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A	
			135									135		616	10000	135	MGAL	WATER	
		140										140		622	41100	140	FT	PORTABLE BARRIER, UNANCHORED	
																		INCIDENTALS	
LS												LS		614	11000	LS		MAINTAINING TRAFFIC	
4												4		619	16010	4	MNTH	FIELD OFFICE, TYPE B	
LS												LS		623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
LS												LS		624	10000	LS		MOBILIZATION	

REFERENCE NO.	SHEET NO.	ALIGNMENT	STATION FROM	STATION TO	SIDE		202													NOTES
							PAVEMENT REMOVED, AS PER PLAN													
							SY													
			PAVEMENT REMOVAL																	
RP-1	131, 136, 137	SR 126 ENTRANCE RAMP	600+44.10	609+59.90	RT		260													
RP-2	131 & 136	PLAINFIELD RD	709+30.91	709+73.46	RT		11													
RP-3	131 & 136	PLAINFIELD RD	708+94.61	709+59.43	LT		17													
RP-4	131	PLAINFIELD RD	711+65.31	712+00.00	LT/RT		266													
RP-5	132 & 141	PLAINFIELD RD	712+00.00	717+50.00	LT/RT		4116													
RP-6	132	PLAINFIELD RD	712+16.75		LT		343													
RP-7	132	PLAINFIELD RD	712+28.79		RT		237													
RP-8	132	PLAINFIELD RD	712+91.48		RT		95													
RP-9	132	PLAINFIELD RD	713+24.20		LT		249													
RP-10	132 & 141	PLAINFIELD RD	715+94.56		LT		58													
RP-11	132 & 141	PLAINFIELD RD	717+50.00	723+00.00	LT/RT		921													
RP-12	133	PLAINFIELD RD	717+79.87		LT		160													
RP-13	133	PLAINFIELD RD	717+75.61		RT		141													
RP-14	133	PLAINFIELD RD	718+60.30		RT		17													
RP-15	134	PLAINFIELD RD	723+00.00	728+50.00	LT/RT		1695													
RP-16	133, 143, 144	PLAINFIELD RD	728+50.00	729+82.96	LT/RT		819													
RP-17	133, 143, 144	PLAINFIELD RD	900+00.00	950+00.00	LT/RT		1325													
RP-18	133, 143, 144	PEPPERMILL LN	950+37.45	952+87.88	LT/RT		664													
RP-19	143	PEPPERMILL LN	952+18.95		RT		35													
RP-20	143	PEPPERMILL LN	952+72.04		RT		16													
RP-21	133, 143, 144	REED HARTMAN HWY	729+82.96	734+00.00	LT/RT		2539													
RP-22	145	REED HARTMAN HWY	734+00.00	735+05.91	LT/RT		79													
RP-23	138	EX HUNT RD	797+56.28	800+00.00	LT/RT		579													**
RP-24	139 & 146	EX HUNT RD	800+00.00	805+50.00	LT/RT		2276													**
RP-25	139 & 146	KROGER ENTRANCE	5+21.90	6+59.96	LT/RT		1049													**
RP-26	140	EX HUNT RD	805+50.00	807+67.73	LT/RT		520													
RP-27	140	HUNT RD	500+00.00	503+00.00	LT/RT		2655													
RP-28	140	HUNT RD	809+47.60		RT		352													
RP-29	140	HUNT RD	810+08.37		RT		43													
RP-30	140 - 141	HUNT RD	810+90.15		RT		40													
RP-31	140 - 141	HUNT RD	811+64.09		RT		62													
RP-32	141	HUNT RD	503+00.00	503+93.64	LT/RT		740													
RP-33	132 & 141	HUNT RD	811+00.00	813+24.46	LT/RT		1080													
RP-34	132 & 141	EX HUNT RD	811+69.25	813+19.54	LT		7228													
RP-35	132 & 141	EX HUNT RD	813+94.45	816+00.00	LT/RT		1130													
RP-36	141	EX HUNT RD	815+12.12		RT		85													
RP-37	142	EX HUNT RD	816+00.00	818+77.99	LT/RT		909													
RP-38	132 & 141	EX HUNT RD	814+19.16	815+53.64	LT		5934													
RP-39	132 & 141	PLAINFIELD RD	713+68.52	713+76.53	LT		3													
RP-40	141	EX HUNT RD	811+63.07	812+13.73	LT		52													
RP-41	141	EX HUNT RD	812+61.24	812+91.84	LT		24													
**100% LOCAL FUNDING SPLIT CARRIED TO GENERAL SUMMARY							3904													
TOTALS CARRIED TO GENERAL SUMMARY							38824													

CALCULATED LZS
CHECKED JS

PAVEMENT REMOVAL SUBSUMMARY

PAVEMENT

HAM-PLAINFIELD RD ROUNDABOUTS

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REFERENCE NO.	SHEET NO.	ALIGNMENT	STATION FROM	STATION TO	SIDE	202 HEADWALL REMOVED	202 WALK REMOVED	202 CONCRETE MEDIAN REMOVED	202 CURB REMOVED	202 CURB AND GUTTER REMOVED	202 CONCRETE SLOPE PROTECTION REMOVED	202 PIPE REMOVED, 24" AND UNDER	202 PIPE REMOVED, OVER 24"	202 GUARDRAIL REMOVED	202 MANHOLE REMOVED	202 CATCH BASIN REMOVED	202 FENCE REMOVED	202 REMOVAL MISC.: PRIVATE SIGN	202 REMOVAL MISC.: SLOTTED DRAIN			NOTES
				REMOVALS		EACH	SF	SY	FT	FT	SY	FT	FT	FT	EACH	EACH	FT	EACH	FT			
RR-1	131, 136, 137	SR 126 ENTRANCE RAMP	600+46.76	609+59.90	RT				957													
RR-2	131 & 136	PLAINFIELD RD	708+00.00	708+46.77	RT		255															
RR-3	131 & 136	PLAINFIELD RD	708+97.34	709+59.44	RT		282															
RR-4	131 & 136	PLAINFIELD RD	708+97.34	709+59.44	RT				91													
RR-5	131 & 136	PLAINFIELD RD	709+32.88	709+73.48	LT		181															
RR-6	131 & 136	PLAINFIELD RD	709+32.88	709+73.48	LT				49													
RR-7	140 - 141	PLAINFIELD RD	711+75.89	713+89.26	CL			215														
RR-8	140 - 141	PLAINFIELD RD	711+57.63	712+66.31	RT				108													
RR-9	140 - 141	PLAINFIELD RD	711+57.63	712+12.61	RT		275															
RR-10	131, 136, 137	PLAINFIELD RD	711+72.91	713+99.92	LT				624													
RR-11	131, 136, 137	PLAINFIELD RD	711+83.28	713+86.71	LT		1036															
RR-12	141	PLAINFIELD RD	712+42.63	712+74.72	RT		159															
RR-13	141	PLAINFIELD RD	712+37.29	713+18.96	LT				122													
RR-14	141	PLAINFIELD RD	712+66.31	714+54.66	RT				202													
RR-15	132 & 141	PLAINFIELD RD	713+18.84	714+30.04	RT		564															
RR-16	141	PLAINFIELD RD	713+54.00		RT							56				1						
RR-17	141	PLAINFIELD RD	713+31.50	713+80.53	LT				92													
RR-18	141	PLAINFIELD RD	713+68.52	713+76.53	LT				10													
RR-19	141	PLAINFIELD RD	713+82.00		CL							26				1						
RR-20	132 & 141	EX HUNT RD	812+75.65		RT							46				1						
RR-21	132 & 141	EX HUNT RD	812+91.00		RT							58			1							
RR-22	132 & 141	PLAINFIELD RD	714+12.84		CL							38			1							
RR-23	132 & 141	PLAINFIELD RD	714+17.89		RT							8				1						
RR-24	141	PLAINFIELD RD	711+98.72	712+03.58	LT				10													
RR-25	141	PLAINFIELD RD	712+12.61	712+20.00	RT				15													
RR-26	141	PLAINFIELD RD	712+37.47	712+42.63	RT				14													
RR-27	132 - 133	PLAINFIELD RD	714+55.69	721+19.63	LT					696												
RR-28	132 & 141	PLAINFIELD RD	714+61.46	715+70.97	LT		470															
RR-29	132 & 141	PLAINFIELD RD	715+10.13	715+24.25	RT		205															
RR-30	132, 133, 141	PLAINFIELD RD	715+07.57	721+10.19	RT					638												
RR-31	132, 133, 141	PLAINFIELD RD	715+24.21	720+90.87	CL			567														
RR-32	132 & 141	PLAINFIELD RD	715+79.11	716+11.91	RT				50													
RR-33	141	PLAINFIELD RD	716+05.76		LT							11				1			34			
RR-34	132	PLAINFIELD RD	716+16.59	717+44.04	LT							127										
RR-35	132 - 133	PLAINFIELD RD	717+30.57	717+63.35	RT							43				1						
RR-36	133	PLAINFIELD RD	717+63.35	717+62.20	RT							43				1						
RR-37	133	PLAINFIELD RD	717+62.20	717+68.58	LT							9				1						
RR-38	133	PLAINFIELD RD	717+68.58	719+52.33	LT							184			1							
RR-39	133	PLAINFIELD RD	719+52.33	721+09.92	LT							158				1						
RR-40	133	PLAINFIELD RD	720+94.00	721.09.92	LT							17				1						
RR-41	133	PLAINFIELD RD	721+09.92	724+12.44	LT							303			1							
RR-42	133	PLAINFIELD RD	721+10.59	721+09.92	LT							14				1						
RR-43	133	PLAINFIELD RD	720+99.90	721+09.92	RT							20				1						
RR-44	133	PLAINFIELD RD	721+10.13	721+35.23	RT				39													
RR-45	133	ST ANDREWS PL	750+35.91	750+65.00	LT				33													
**100% LOCAL FUNDING SPLIT CARRIED TO SHEET 108						0	0	0	0	0	0	0	0	0	0	0	0	0	0			
SUBTOTALS CARRIED TO SHEET 108						0	3427	782	2416	1334	0	1161	0	0	4	12	0	0	34			

CALCULATED LZS
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REMOVAL SUBSUMMARY

HAM-PLAINFIELD RD ROUNDABOUTS

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REFERENCE NO.	SHEET NO.	ALIGNMENT	STATION FROM	STATION TO	SIDE	202 HEADWALL REMOVED (EACH)	202 WALK REMOVED (SF)	202 CONCRETE MEDIAN REMOVED (SY)	202 CURB REMOVED (FT)	202 CURB AND GUTTER REMOVED (FT)	202 CONCRETE SLOPE PROTECTION REMOVED (SY)	202 PIPE REMOVED, 24" AND UNDER (FT)	202 PIPE REMOVED, OVER 24" (FT)	202 GUARDRAIL REMOVED (FT)	202 MANHOLE REMOVED (EACH)	202 CATCH BASIN REMOVED (EACH)	202 FENCE REMOVED (FT)	202 REMOVAL MISC.: PRIVATE SIGN' (EACH)	202 REMOVAL MISC.: SLOTTED DRAIN' (FT)			NOTES
			REMOVALS (CONTINUED)																			
RR-46	133	PLAINFIELD RD	721+89.81	722+01.27	RT		112															
RR-47	133 - 135	PLAINFIELD RD	721+86.80	729+54.61	RT					774												
RR-48	133 - 135	PLAINFIELD RD	721+91.00	729+55.71	LT					782												
RR-49	133 - 135	PLAINFIELD RD	721+76.80	729+35.77	LT		5963															
RR-50	134	PLAINFIELD RD	724+94.03	726+72.24	RT									178								
RR-51	134	PLAINFIELD RD	727+19.08	727+03.81	LT							16				1						
RR-52	134	PLAINFIELD RD	727+03.62	728+01.92	RT							98				1						
RR-53	134, 135, 143	PLAINFIELD RD	726+95.42	729+36.57	RT		917															
RR-54	134	PLAINFIELD RD	728+01.92	728+17.89	RT							16				1						
RR-55	135, 143, 144	PLAINFIELD RD	729+04.51	728+17.89	RT							84				1						
RR-56	135, 143, 144	PLAINFIELD RD	728+91.95	729+00.80	RT												8					
RR-57	135, 143, 144	PLAINFIELD RD	729+00.96	729+09.27	RT													1				
RR-58	135, 143, 144	PLAINFIELD RD	729+09.27	729+16.30	RT												10					
RR-59	135, 143, 144	PLAINFIELD RD	729+07.30	729+27.81	RT							20										
RR-60	135, 143, 144	PEPPERMILL LN	950+63.89	950+80.10	RT							18				1						
RR-61	135, 143, 144	PEPPERMILL LN	950+63.89	950+80.15	LT							24				1						
RR-62	135, 143, 144	PEPPERMILL LN	950+39.82	952+80.09	LT		1143															
RR-63	135, 143, 144	PEPPERMILL LN	950+49.67	950+58.56	CL																	
RR-64	135, 143, 144	PLAINFIELD RD	901+37.41	904+26.54	RT		2445															
RR-65	135, 143, 144	PLAINFIELD RD	901+34.75	904+07.39	RT					289												
RR-66	135, 143, 144	PLAINFIELD RD	900+32.52	903+71.77	LT					333												
RR-67	135, 143, 144	PLAINFIELD RD	903+90.62	904+05.19	LT		114															
RR-68	138 - 139, 146	EX HUNT RD	797+58.35	803+45.40	RT				600													**
RR-69	138 - 139, 146	EX HUNT RD	798+75.18	801+28.32	LT					263												**
RR-70	138 - 139, 146	EX HUNT RD	798+75.19	801+22.40	LT		1924															**
RR-71	139 & 146	EX HUNT RD	800+02.03	800+07.07	LT	1							7									**
RR-72	139 & 146	EX HUNT RD	799+98.32	800+35.63	LT						203											**
RR-73	139 & 146	KROGER ENTRANCE	5+50.58	5+81.72	LT				53													**
RR-74	139 & 146	KROGER ENTRANCE	5+81.72	6+56.96	LT					76												**
RR-75	139 & 146	KROGER ENTRANCE	5+76.78	6+40.63	LT							116				1						**
RR-76	139 & 146	EX HUNT RD	800+14.73	801+93.03	LT							170			1							**
RR-77	139 & 146	EX HUNT RD	801+95.34	801+93.03	LT							16				1						**
RR-78	139 & 146	KROGER ENTRANCE	5+48.15	5+70.09	RT				22													**
RR-79	139 & 146	KROGER ENTRANCE	5+70.09	5+78.59	RT					62												**
RR-80	139 & 146	EX HUNT RD	801+59.76	804+31.45	LT		2287															**
RR-81	139 & 146	EX HUNT RD	801+59.76	804+31.45	LT					320												**
RR-82	139	EX HUNT RD	801+93.03	802+82.06	LT							85			1							**
RR-83	139	EX HUNT RD	802+82.06	802+94.88	LT							18				1						**
RR-84	139	EX HUNT RD	802+94.88	803+44.63	LT/RT							70										**
RR-85	139	EX HUNT RD	803+44.63	803+51.61	RT							10				1						**
RR-86	139	EX HUNT RD	802+82.06	803+60.53	LT							78			1							**
RR-87	139	EX HUNT RD	803+60.53	804+23.36	LT							63			1							**
RR-88	139	EX HUNT RD	803+45.40	812+43.12	RT					899												**
RR-89	139 - 141	EX HUNT RD	804+23.36	805+06.48	LT							83			1							**
RR-90	139	EX HUNT RD	804+89.54	804+97.47	LT				30													**
**100% LOCAL FUNDING SPLIT CARRIED TO SHEET 108						1	4211	0	705	1620	203	709	7	0	5	4	0	0	0			
SUBTOTALS CARRIED TO SHEET 108						1	14905	0	705	3798	203	985	7	178	5	10	18	1	0			

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REMOVAL SUBSUMMARY

HAM-PLAINFIELD RD ROUNDABOUTS

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REFERENCE NO.	SHEET NO.	ALIGNMENT	STATION FROM	STATION TO	SIDE	202 HEADWALL REMOVED	202 WALK REMOVED	202 CONCRETE MEDIAN REMOVED	202 CURB REMOVED	202 CURB AND GUTTER REMOVED	202 CONCRETE SLOPE PROTECTION REMOVED	202 PIPE REMOVED, 24" AND UNDER	202 PIPE REMOVED, OVER 24"	202 GUARDRAIL REMOVED	202 MANHOLE REMOVED	202 CATCH BASIN REMOVED	202 FENCE REMOVED	202 REMOVAL MISC.: PRIVATE SIGN'	202 REMOVAL MISC.: SLOTTED DRAIN'			NOTES
						EACH	SF	SY	FT	FT	SY	FT	FT	FT	EACH	EACH	FT	EACH	FT			
			REMOVALS (CONTINUED)																			
RR-91	139 - 141	EX HUNT RD	804+97.47	809+00.08	LT					587												
RR-92	139 - 141	EX HUNT RD	804+89.42	808+89.43	LT		1744															
RR-93	139	EX HUNT RD	805+06.48	805+44.91	LT							38				1						**
RR-94	139	EX HUNT RD	805+44.50	805+44.91	RT							52				1						
RR-95	140	EX HUNT RD	805+44.91	807+14.86	LT							170			1							
RR-96	140	EX HUNT RD	807+14.86	807+50.69	LT							36				1						
RR-97	140	EX HUNT RD	807+44.41	807+47.84	RT							54				1						
RR-98	140	EX HUNT RD	807+47.84	807+50.69	LT							6			1							
RR-99	140	EX HUNT RD	807+50.69	808+76.15	LT							125			1							
RR-100	140	EX HUNT RD	808+76.15	810+02.63	LT							126										
RR-101	140	EX HUNT RD	809+59.00	809+98.50	LT		94															
RR-102	140	EX HUNT RD	810+24.25	810+62.11	LT		101															
RR-103	140	EX HUNT RD	809+59.78	811+61.72	LT				335													
RR-104	140	EX HUNT RD	809+66.85	812+95.20	LT					331												
RR-105	140 - 141	EX HUNT RD	809+78.72	811+64.79	LT		721															
RR-106	132 & 141	EX HUNT RD	812+09.42	812+63.35	LT		646															
RR-107	132 & 141	EX HUNT RD	812+25.59	812+26.00	LT							48				1						
RR-108	132 & 141	EX HUNT RD	812+26.00	812+90.53	RT							65				1						
RR-109	132 & 141	EX HUNT RD	811+66.64	811+68.02	LT				91													
RR-110	132 & 141	EX HUNT RD	811+38.75	811+47.41	RT				17													
RR-111	132 & 141	EX HUNT RD	811+77.23	811+92.88	RT																	
RR-112	132 & 141	EX HUNT RD	812+09.19	812+14.14	LT				11													
RR-113	132 & 141	EX HUNT RD	812+60.02	812+64.53	LT				12													
RR-114	132 & 141	EX HUNT RD	812+86.97	812+93.07	LT				11													
RR-115	132, 141 - 142	EX HUNT RD	814+60.25	818+72.04	LT					414												
RR-116	132, 141 - 142	EX HUNT RD	814+25.69	818+50.43	RT					424												
RR-117	132 & 141	EX HUNT RD	815+02.77	815+24.69	LT		95		46													
RR-118	132, 141 - 142	EX HUNT RD	815+53.56	818+68.69	LT		1225															
RR-119	132 & 141	EX HUNT RD	814+42.51	815+65.97	LT			274														
RR-120	142	EX HUNT RD	816+04.58	816+10.72	RT							17				1						
RR-121	142	EX HUNT RD	815+99.72	817+11.00	RT							110										
RR-122	142	EX HUNT RD	816+84.94	817+11.00	RT							27				1						
RR-123	142	EX HUNT RD	817+11.00	817+36.00	RT							26				1						
RR-124	142	EX HUNT RD	817+11.00	818+43.65	RT							132			1							
RR-125	142	EX HUNT RD	814+70.25	814+80.89	RT				38													
**100% LOCAL FUNDING SPLIT CARRIED TO SHEET 108						0	0	0	0	0	0	38	0	0	0	1	0	0	0			
SUBTOTALS CARRIED TO SHEET 108						0	4626	274	561	1756	0	1032	0	0	4	9	0	0	0			

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REMOVAL SUBSUMMARY

HAM-PLAINFIELD RD
ROUNDABOUTS

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REFERENCE NO.	SHEET NO.	ALIGNMENT	STATION FROM	STATION TO	SIDE	202 HEADWALL REMOVED	202 WALK REMOVED	202 CONCRETE MEDIAN REMOVED	202 CURB REMOVED	202 CURB AND GUTTER REMOVED	202 CONCRETE SLOPE PROTECTION REMOVED	202 PIPE REMOVED, 24" AND UNDER	202 PIPE REMOVED, OVER 24"	202 GUARDRAIL REMOVED	202 MANHOLE REMOVED	202 CATCH BASIN REMOVED	202 FENCE REMOVED	202 REMOVAL MISC.: PRIVATE SIGN	202 REMOVAL MISC.: SLOTTED DRAIN			NOTES
			REMOVALS (CONTINUED)			EACH	SF	SY	FT	FT	SY	FT	FT	FT	EACH	EACH	FT	EACH	FT			
RR-126	142	EX HUNT RD	815+15.20	815+42.02	RT				52													
RR-127	142	EX HUNT RD	816+11.53	816+81.75	RT				35													
RR-128	142	EX HUNT RD	816+19.55	817+36.10	RT				33													
RR-129	143	PEPPERMILL LN	950+73.52	952+88.00	RT					214												
RR-130	143	PEPPERMILL LN	950+77.46	952+88.34	LT					227												
RR-131	135, 144- 145	REED HARTMAN HWY	729+98.65	735+15.43	LT					562												
RR-132	135, 144- 145	REED HARTMAN HWY	730+26.95	730+46.77	LT							21				1						
RR-133	135, 144- 145	REED HARTMAN HWY	730+53.94	730+46.77	LT/RT							67				1						
RR-134	135, 144- 145	REED HARTMAN HWY	729+66.26	734+10.00	RT					456												
RR-135	135, 144- 145	REED HARTMAN HWY	730+30.74	735+17.68	LT												627					
RR-136	135	PLAINFIELD RD	730+33.79	730+39.21	LT							10				1						
RR-137	144	REED HARTMAN HWY	732+54.56	732+54.93	LT/RT							57				1						
RR-138	144	REED HARTMAN HWY	732+47.09	732+54.93	RT							8				1						
**100% LOCAL FUNDING SPLIT SUBTOTALS FROM THIS SHEET						0	0	0	0	0	0	0	0	0	0	0	0	0	0			
**100% LOCAL FUNDING SPLIT SUBTOTALS FROM SHEET 105						0	0	0	0	0	0	0	0	0	0	0	0	0	0			
**100% LOCAL FUNDING SPLIT SUBTOTALS FROM SHEET 106						1	4211	0	705	1620	203	709	7	0	5	4	0	0	0			
**100% LOCAL FUNDING SPLIT SUBTOTALS FROM SHEET 107						0	0	0	0	0	0	38	0	0	0	1	0	0	0			
**100% LOCAL FUNDING SPLIT CARRIED TO GENERAL SUMMARY						1	4211	0	705	1620	203	747	7	0	5	5	0	0	0			
SUBTOTALS FROM THIS SHEET						0	0	0	120	1459	0	163	0	0	0	5	627	0	0			
SUBTOTALS FROM SHEET 105						0	3427	782	2416	1334	0	1161	0	0	4	12	0	0	34			
SUBTOTALS FROM SHEET 106						1	14905	0	705	3798	203	985	7	178	5	10	18	1	0			
SUBTOTALS FROM SHEET 107						0	4626	274	561	1756	0	1032	0	0	4	9	0	0	0			
TOTALS CARRIED TO GENERAL SUMMARY						1	22958	1056	3802	8347	203	3341	7	178	13	36	645	1	34			

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REMOVAL SUBSUMMARY

HAM-PLAINFIELD RD ROUNDABOUTS

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REFERENCE NO.	SHEET NO.	ALIGNMENT	STATION FROM	STATION TO	SIDE		607 FENCE, MISC.: SPLIT RAIL FENCE WITH WOVEN WIRE		608 5" CONCRETE WALK	608 CURB RAMP		609 COMBINATION CURB AND GUTTER, TYPE 2	609 CURB, TYPE 6	609 CURB, TYPE 7	609 CURB, TYPE 8	609 6" CONCRETE TRAFFIC ISLAND	609 MEDIAN, MISC.: BRICK PAVERS, AS PER PLAN	609 CURB, MISC.: CURB, TYPE 9				NOTES
							FT		SF	SF		FT	FT	FT	FT	SY	SY	FT				
C-1	130/ 136 - 137	SR 126 ENTRANCE RAMP	600+57.67	609+60.00	RT								897									
C-2	132	PLAINFIELD RD	712+18.56	712+19.98	RT								8									
C-3	132	PLAINFIELD RD	712+37.24	712+38.42	RT								8									
C-4	131, 132, 141	PLAINFIELD RD	711+57.59	714+56.66	LT							317										
C-5	131, 132, 141	PLAINFIELD RD	711+63.00	712+94.63	CL										132							
C-6	132	PLAINFIELD RD	712+03.72	712+03.66	LT								8									
C-7	132	PLAINFIELD RD	712+37.75	712+46.91	LT								11									
C-8	131, 132, 141	PLAINFIELD RD	711+72.91	714+90.51	LT							365										
C-9	132	PLAINFIELD RD	712+77.60	712+94.82	RT								30									
C-10	132	PLAINFIELD RD	713+11.88	713+24.85	RT								26									
C-11	131 - 132	PLAINFIELD RD	712+94.63	714+10.46	LT/RT								256					167				
C-12	132	PLAINFIELD RD	712+94.24	713+07.26	LT								21									
C-13	132	PLAINFIELD RD	713+31.25	713+55.94	LT								49									
C-14	131 - 132	PLAINFIELD RD	714+18.72	714+38.72	LT/RT								135					93				
C-15	132 & 141	PLAINFIELD RD	714+58.61	715+58.71	LT/RT													338	327			
C-16	132 & 141	PLAINFIELD RD	714+69.44	715+47.86	LT/RT								258									
C-17	132 & 141	PLAINFIELD RD	714+78.81	715+11.44	RT								98					60				
C-18	132 & 141	PLAINFIELD RD	715+00.20	715+43.06	LT								123					83				
C-19	132 & 141	PLAINFIELD RD	715+33.22	715+59.17	RT								103					60				
C-20	132, 133, 141	PLAINFIELD RD	715+73.93	721+35.23	RT							598										
C-21	132 & 141	PLAINFIELD RD	715+87.06	716+10.65	LT/RT								106					64				
C-22	132 & 141	PLAINFIELD RD	715+55.65	716+20.14	LT								234					98				
C-23	132 & 141	PLAINFIELD RD	716+30.16	716+42.92	LT								35					6				
C-24	132, 133, 141	PLAINFIELD RD	715+98.37	721+18.56	LT							552										
C-25	132 - 133	PLAINFIELD RD	716+17.35	718+90.86	CL								561					224				
C-26	133	PLAINFIELD RD	717+50.83	717+58.82	LT								22									
C-27	133	PLAINFIELD RD	718+00.10	718+07.20	LT								21									
C-28	133	PLAINFIELD RD	717+54.55	717+69.84	RT								43									
C-29	133	PLAINFIELD RD	717+94.44	718+02.65	RT								38									
C-30	133	PLAINFIELD RD	718+47.65	718+53.47	RT								12									
C-31	133	PLAINFIELD RD	718+66.67	718+72.57	RT								12									
C-32	133	PLAINFIELD RD	718+90.86	720+90.38	CL										200							
C-33	133 - 135, 144	PLAINFIELD RD	721+62.63	729+79.77	LT							883										
C-34	134 - 135, 144	PLAINFIELD RD	723+71.97	728+61.18	CL								994					521				
C-35	133 - 135, 143	PLAINFIELD RD	721+73.18	729+13.82	RT							776										
C-35	133 - 134	PLAINFIELD RD	722+75.00	725+75.27	RT									300								
C-36	135, 143, 144	PLAINFIELD RD	728+70.01	728+89.51	CL							102						60				
C-37	135, 143, 144	PLAINFIELD RD	729+10.41	730+08.21	LT/RT													417	307			
C-38	135, 143, 144	PLAINFIELD RD	729+25.27	729+93.39	LT/RT								214									
C-39	135, 143, 144	PLAINFIELD RD	729+37.28	729+66.72	RT								83					42				
C-40	135, 143, 144	PLAINFIELD RD	729+83.96	730+08.11	LT								86					47				
C-41	135, 144 - 145	PLAINFIELD RD	729+81.13	734+10.00	LT							425										
C-42	135, 143, 144	PLAINFIELD RD	730+26.70	730+47.23	LT/RT								108					64				
C-43	135, 144 - 145	PLAINFIELD RD	730+26.60	735+05.83	RT							516										
C-44	135 & 143	PLAINFIELD RD	730+56.79	731+68.71	LT/RT								236					54				
C-45	135 & 144	PLAINFIELD RD	900+00.00	903+75.27	LT							370										
**100% LOCAL FUNDING SPLIT CARRIED TO SHEET 112							0		0	0		0	0	0	0	0	0	0				
SUBTOTALS CARRIED TO SHEET 112							0		0	0		4904	4836	300	332	0	2398	634				

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ROADWAY SUBSUMMARY

HAM-PLAINFIELD RD ROUNDABOUTS

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REFERENCE NO.	SHEET NO.	ALIGNMENT	STATION FROM	STATION TO	SIDE		607 FENCE, MISC.: SPLIT RAIL FENCE WITH WOVEN WIRE		608 5" CONCRETE WALK	608 CURB RAMP		609 COMBINATION CURB AND GUTTER, TYPE 2	609 CURB, TYPE 6	609 CURB, TYPE 7	609 CURB, TYPE 8	609 6" CONCRETE TRAFFIC ISLAND	609 MEDIAN, MISC.: BRICK PAVERS, AS PER PLAN	609 CURB, MISC.: CURB, TYPE 9				NOTES
							FT		SF	SF		FT	FT	FT	FT	SY	SY	FT				
C-46	135 & 144	PLAINFIELD RD	902+71.14	903+51.65	LT/RT								175				66					
C-47	135	PLAINFIELD RD	901+36.84	903+21.85	RT							205										
C-48	143	PEPPERMILL LN	951+10.19	951+28.35	LT/RT								45				11					
C-49	143	PEPPERMILL LN	950+95.82	952+86.35	LT							208										
C-50	143	PEPPERMILL LN	950+80.94	952+87.98	RT							208										
C-51	138	EX HUNT RD	797+57.90	798+74.44	RT								120									**
C-52	138 - 141	EX HUNT RD	798+74.44	504+91.08	RT							1409										**
C-53	138 - 139. 146	EX HUNT RD	798+75.18	801+19.73	LT							258										**
C-54	139 - 146	EX HUNT RD	802+28.42	800+84.92	LT/RT								146				86					**
C-55	139 - 146	EX HUNT RD	801+02.50	801+57.82	LT/RT												397	235				**
C-56	139 - 146	EX HUNT RD	801+26.23	801+80.75	LT/RT								97									**
C-57	139 - 146	KROGER ENTRANCE	5+68.28	5+95.50	LT/RT								90				49					**
C-58	139 - 146	KROGER ENTRANCE	6+05.10	6+27.20	LT/RT								51				12					**
C-59	139 - 146	KROGER ENTRANCE	6+12.66	6+56.46	LT								66									**
C-60	139 - 146	KROGER ENTRANCE	5+80.62	6+26.45	RT								92									**
C-61	146	KROGER ENTRANCE	6+49.46	6+56.46	RT								70			23						**
C-62	139	EX HUNT RD	801+76.01	804+47.62	LT							311										**
C-63	139 - 140	EX HUNT RD	801+98.63	505+16.21	LT/RT								2215				677					**
C-64	139	EX HUNT RD	804+10.32	804+49.66	LT								57									**
C-65	139	EX HUNT RD	804+59.15	804+85.16	LT								88			37						**
C-66	139	EX HUNT RD	804+88.91	804+89.48	LT								14									**
C-67	139 - 140	EX HUNT RD	804+92.85	813+23.36	LT							857										
C-68	140	HUNT RD	500+00.00	501+86.21	LT								238									
C-69	140 - 141	HUNT RD	502+13.04	504+07.15	LT								286									
C-70	140 - 141	EX HUNT RD	809+33.51	811+21.38	LT								292									
C-71	141	EX HUNT RD	811+29.04	811+72.96	LT								150			110						
C-72	140	EX HUNT RD	809+58.12	809+92.96	RT								49									
C-73	140	EX HUNT RD	810+22.00	810+76.57	RT								67									
C-74	141	EX HUNT RD	811+05.63	811+46.87	RT								57									
C-75	141	EX HUNT RD	811+77.83	812+20.36	LT/RT								130									
C-76	141 - 142	EX HUNT RD	814+83.26	818+73.48	LT							403										
C-77	141	EX HUNT RD	814+97.11	815+94.17	LT								213				121					
C-78	141 - 142	EX HUNT RD	814+80.17	817+29.45	RT								516				203					
C-79	141 - 142	EX HUNT RD	814+35.29	818+50.40	RT							415										
C-80	141	EX HUNT RD	814+87.72	814+98.62	RT								47									
C-81	141	EX HUNT RD	815+25.62	815+36.52	RT								31									
F-1	135, 144 - 145	REED HARTMAN HWY	730+34.82	734+36.08	LT		516															
W-1	131 & 136	PLAINFIELD RD	708+00.00	708+40.02	RT				232													
W-2	131 & 136	PLAINFIELD RD	708+40.00	708+52.00	RT					82			19									
W-3	131 & 136	PLAINFIELD RD	708+97.07	709+11.56	RT					127			22									
W-4	131 & 136	PLAINFIELD RD	709+11.56	709+59.44	RT				258													
W-5	131 & 136	PLAINFIELD RD	709+33.99	709+47.93	LT					97			18									
**100% LOCAL FUNDING SPLIT CARRIED TO SHEET 112							0		0	0		1978	3106	0	0	60	1221	235				
SUBTOTALS CARRIED TO SHEET 112							516		490	306		4274	5461	0	0	170	1622	235				

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ROADWAY SUBSUMMARY

HAM-PLAINFIELD RD ROUNDABOUTS

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REFERENCE NO.	SHEET NO.	ALIGNMENT	STATION FROM	STATION TO	SIDE		607 FENCE, MISC.: SPLIT RAIL FENCE WITH WOVEN WIRE		608 5" CONCRETE WALK	608 CURB RAMP		609 COMBINATION CURB AND GUTTER, TYPE 2	609 CURB, TYPE 6	609 CURB, TYPE 7	609 CURB, TYPE 8	609 6" CONCRETE TRAFFIC ISLAND	609 MEDIAN, MISC.: BRICK PAVERS, AS PER PLAN	609 CURB, MISC.: CURB, TYPE 9				NOTES
							FT		SF	SF		FT	FT	FT	FT	SY	SY	FT				
W-6	131 & 136	PLAINFIELD RD	709+47.93	709+73.50	LT				109													
W-7	131	PLAINFIELD RD	711+57.48	712+13.49	RT				365													
W-8	131	PLAINFIELD RD	711+73.78	711+96.46	LT				152													
W-9	132	PLAINFIELD RD	712+37.67	713+07.23	LT				460													
W-10	132	PLAINFIELD RD	712+43.23	712+70.89	RT				226													
W-11	132	PLAINFIELD RD	713+14.43	713+98.06	LT				577													
W-12	132 & 141	PLAINFIELD RD	713+42.00	713+98.51	RT				440													
W-13	132 & 141	PLAINFIELD RD	713+95.94	714+05.21	RT					61												
W-14	132 & 141	PLAINFIELD RD	714+10.46	714+18.72	CL				253													
W-15	132 & 141	PLAINFIELD RD	713+98.51	714+08.01	LT					62												
W-16	132 & 141	PLAINFIELD RD	714+02.90	714+60.88	LT				505				98									
W-17	132 & 141	PLAINFIELD RD	714+06.00	714+83.53	RT				486													
W-18	132 & 141	EX HUNT RD	814+72.26	814+79.08	RT					55												
W-19	132 & 141	HUNT RD	505+11.74	505+05.41	RT					55												
W-20	132 & 141	EX HUNT RD	814+71.67	814+79.67	LT/RT				173													
W-21	132 & 141	EX HUNT RD	814+89.51	815+04.38	LT				163													
W-22	132 & 141	EX HUNT RD	815+05.21	815+15.03	LT					64												
W-23	132 & 141	HUNT RD	505+16.74	505+25.16	LT/RT				228													
W-24	132 & 141	PLAINFIELD RD	715+75.19	716+22.85	RT				414													
W-25	132 & 141	PLAINFIELD RD	716+20.61	716+30.68	RT					64												
W-26	132 & 141	PLAINFIELD RD	716+08.48	716+16.84	LT/RT				163													
W-27	132 & 141	PLAINFIELD RD	716+20.61	716+29.69	LT				53													
W-28	132 & 141	PLAINFIELD RD	715+74.54	716+34.08	LT				498													
W-29	132 & 141	PLAINFIELD RD	716+30.97	716+41.12	LT					65												
W-30	132	PLAINFIELD RD	716+30.98	717+54.58	RT				883													
W-31	132	PLAINFIELD RD	716+41.12	717+42.54	LT				738													
W-32	133	PLAINFIELD RD	718+02.65	718+48.39	RT				345													
W-33	133	PLAINFIELD RD	718+13.95	720+79.64	LT				1760													
W-34	133	PLAINFIELD RD	718+71.76	721+21.78	RT				1634													
W-35	133	PLAINFIELD RD	720+79.64	721+05.97	LT					139												
W-36	133	PLAINFIELD RD	721+19.00	721+31.27	RT					72												
W-37	133	PLAINFIELD RD	721+71.23	721+86.13	LT					79												
W-38	133	PLAINFIELD RD	721+86.13	721+91.94	LT				40													
W-39	133	PLAINFIELD RD	721+87.07	722+01.96	LT					79												
W-40	133	PLAINFIELD RD	721+75.00	721+83.12	RT					82												
W-41	133	PLAINFIELD RD	721+84.57	721+92.33	RT				66													
W-42	133	PLAINFIELD RD	721+86.54	722+03.28	RT					87												
W-43	133 - 134	PLAINFIELD RD	722+01.96	728+51.37	LT				4244													
W-44	133 - 134	PLAINFIELD RD	722+03.28	726+05.61	LT				2622													
W-45	134 - 135	PLAINFIELD RD	726+95.42	728+51.21	RT				758													
W-46	135	PLAINFIELD RD	728+51.75	728+58.50	RT					55												
W-47	135	PLAINFIELD RD	728+61.70	728+70.00	LT/RT				157													
W-48	135	PLAINFIELD RD	728+51.59	728+57.88	LT				48													
W-49	135 & 143	PLAINFIELD RD	728+56.18	729+16.71	RT				463													
W-50	135 & 143	PEPPERMILL LN	951+08.00	951+15.02	RT					55												
**100% LOCAL FUNDING SPLIT CARRIED TO SHEET 112							0		0	0		0	0	0	0	0	0	0				
SUBTOTALS CARRIED TO SHEET 112							0		19023	1074		0	98	0	0	0	0	0				

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ROADWAY SUBSUMMARY

HAM-PLAINFIELD RD ROUNDABOUTS

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REFERENCE NO.	SHEET NO.	ALIGNMENT	STATION FROM	STATION TO	SIDE		607 FENCE, MISC.: SPLIT RAIL FENCE WITH WOVEN WIRE		608 5" CONCRETE WALK	608 CURB RAMP		609 COMBINATION CURB AND GUTTER, TYPE 2	609 CURB, TYPE 6	609 CURB, TYPE 7	609 CURB, TYPE 8	609 6" CONCRETE TRAFFIC ISLAND	609 MEDIAN, MISC.: BRICK PAVERS, AS PER PLAN	609 CURB, MISC.: CURB, TYPE 9				NOTES
							FT		SF	SF		FT	FT	FT	FT	SY	SY	FT				
W-51	135 & 143	PEPPERMILL LN	951+01.30	951+09.67	LT/RT				100													
W-52	135 & 143	PEPPERMILL LN	951+19.17	951+20.08	LT					64												
W-53	135 & 143	PLAINFIELD RD	728+56.00	729+65.89	LT				674													
W-54	135 & 143	PLAINFIELD RD	903+44.86	903+51.71	RT					48												
W-55	135 & 143	PLAINFIELD RD	903+52.16	903+60.40	LT/RT				134													
W-56	135 & 143	PLAINFIELD RD	903+45.61	903+52.16	LT					55												
W-57	135 & 143	PLAINFIELD RD	729+79.26	730+59.81	RT				454													
W-58	135 & 143	PLAINFIELD RD	730+57.74	730+64.77	RT					55												
W-59	135 & 143	PLAINFIELD RD	730+47.76	730+56.26	LT/RT				161													
W-60	135 & 143	PLAINFIELD RD	730+31.00	730+66.30	LT				402													
W-61	135 & 143	PLAINFIELD RD	730+63.67	730+69.93	LT					55												
W-62	135 & 143	PLAINFIELD RD	901+37.29	903+44.92	RT				1427													
W-63	134, 135, 143	PEPPERMILL LN	951+17.40	952+64.89	LT				978													
W-64	143	PEPPERMILL LN	952+64.89	852+81.55	LT					79												
W-65			NOT	USED																		
W-66	138, 139, 146	EX HUNT RD	798+75.19	80+19.19	LT				1676													**
W-67	139 & 146	KROGER ENTRANCE	5+97.02	6+12.16	LT					120			31									**
W-68	139 & 146	KROGER ENTRANCE	5+94.11	6+04.57	LT/RT					105												**
W-69	139 & 146	KROGER ENTRANCE	5+92.72	6+08.81	RT					117			32									**
W-70	139 & 146	EX HUNT RD	801+76.64	804+47.18	LT				1987													**
W-71	139	EX HUNT RD	804+40.92	804+49.22	LT					68												**
W-72	139	EX HUNT RD	804+88.91	804+89.48	LT				111													**
W-73	139	EX HUNT RD	804+88.99	804+96.30	LT					101												
W-74	139 - 140	EX HUNT RD	804+96.30	809+29.16	LT				2877													
W-75	140 - 141	HUNT RD	502+19.71	505+03.15	LT				1983													
W-76	141	HUNT RD	505+00.61	505+10.26	LT					63												
W-77	132, 141, 142	EX HUNT RD	815+12.60	818+61.57	LT				2306													
W-78	142	EX HUNT RD	818+61.57	818+72.82	LT					47												
**100% LOCAL FUNDING SPLIT SUBTOTALS FROM THIS SHEET							0		3774	410		0	63	0	0	0	0	0				
**100% LOCAL FUNDING SPLIT SUBTOTALS FROM SHEET 109							0		0	0		0	0	0	0	0	0	0				
**100% LOCAL FUNDING SPLIT SUBTOTALS FROM SHEET 110							0		0	0		1978	3106	0	0	60	1221	235				
**100% LOCAL FUNDING SPLIT SUBTOTALS FROM SHEET 111							0		0	0		0	0	0	0	0	0	0				
**100% LOCAL FUNDING SPLIT CARRIED TO GENERAL SUMMARY							0		3774	410		1978	3169	0	0	60	1221	235				
SUBTOTALS FROM THIS SHEET							0		15270	977		0	63	0	0	0	0	0				
SUBTOTALS FROM SHEET 109							0		0	0		4904	4836	300	332	0	2398	634				
SUBTOTALS FROM SHEET 110							516		490	306		4274	5461	0	0	170	1622	235				
SUBTOTALS FROM SHEET 111							0		19023	1074		0	98	0	0	0	0	0				
TOTALS CARRIED TO GENERAL SUMMARY							516		34783	2357		9178	10458	300	332	170	4020	869				

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ROADWAY SUBSUMMARY

HAM-PLAINFIELD RD ROUNDABOUTS

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ALIGNMENT	STATION TO STATION		SIDE	LENGTH (L)	AVERAGE WIDTH (W)	SURFACE AREA (A) A=LxW	PLANIMETERED AREAS	204 PROOF ROLLING	254 PAVEMENT PLANING, ASPHALT CONCRETE	206 CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP	206 CEMENT	206 CURING COAT	301 ASPHALT CONCRETE BASE, PG64-22 7"	304 AGGREGATE BASE 6"	407 TACK COAT (0.04 GAL/SY)	441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22 1.5"	441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448) 1.75"	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (448) 1.5"	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (448) 1.75"	NOTES
								HOUR	SY	SY	TON	SY	CY	CY	GAL	CY	CY	CY	CY	
PLAINFIELD RD	707+33.02	709+77.67	LT/RT	244.65			19213.02		2135						107	89				
PLAINFIELD RD	708+94.92	709+59.43	RT	64.51	2.00		151.56	0.01		17	0.5	17	3	3	1	1	1			
PLAINFIELD RD	709+30.91	709+73.46	LT	42.55	2.00		101.80	0.01		11	0.3	11	2	2	1	1	1			
PLAINFIELD RD	711+62.89	712+94.65	RT	131.76			2890.53						62		16	13	16			
			LT				5519.31						119		31	26	30			
			LT/RT				9319.69	0.52		1036	31.3	1036		173						
PLAINFIELD RD	712+94.65	713+66.41	RT	71.76			1616.77						35		9	7	9			
							1897.94	0.11		211	6.4	211		35						
PLAINFIELD RD	712+94.39	713+27.86	LT	33.47			1314.66						28		7	6	7			
							1452.51	0.08		161	4.9	161		27						
REF LINE PH-SE	300+00.00	301+11.93	RT	111.93			2233.92						48		12	10	12			
							2638.61	0.15		293	8.9	293		49						
REF LINE PH-SW	400+00.00	401+35.62	LT	135.62			3377.80						73		19	16	18			
							3902.06	0.22		434	13.1	434		72						
REF LINE PH-SW	401+35.62	402+11.89	LT	76.26			915.00						20		5	4	5			
							1187.24	0.07		132	4	132		22						
REF LINE PH-CC	90+00.00	94+58.62	LT/RT	458.62			11716.77						253		65	54	63			
							15729.68	0.87		1748	52.8	1748		291						
REF LINE PH-NE	200+00.00	204+86.25	RT	486.25			9690.62						209		54	45	52			
							11458.76	0.64		1273	38.4	1273		212						
REF LINE PH-WL	20+00.00	21+72.79	LT	172.79			3450.66						75		19	16	19			
							3683.31	0.2		409	12.4	409		68						
REF LINE PH-NL	30+00.00	31+81.18	LT	181.18			4622.95						100		26	21	25			
							4875.46	0.27		542	16.4	542		90						
REF LINE PH-NW	100+00.00	103+33.71	RT	333.71			5462.37						118		30	25	30			
							5922.74	0.33		658	19.9	658		110						
PLAINFIELD RD	716+97.95	717+65.00	LT	67.05			1083.09						23		6	5	6			
							1151.33	0.06		128	3.9	128		21						
PLAINFIELD RD	717+60.00	720+92.88	RT	332.88			8818.29		980						49	41				
PLAINFIELD RD	717+65.00	720+92.88	LT	327.88			7440.22		827						41	34				
PLAINFIELD RD	717+59.58	721+37.22	RT	377.64	2.00		903.73						20		5	4	5			
							1995.28	0.11		222	6.7	222		37						
PLAINFIELD RD	717+59.58	718+90.86	LT/RT	131.28			519.71						11		3	2	3			
							774.51	0.04		86	2.6	86		14						
PLAINFIELD RD	717+65.00	721+45.03	LT	380.03	2.00		1172.28						25		7	5	6			
							2288.00	0.13		254	7.7	254		42						
**100% LOCAL FUNDING SPLIT CARRIED TO SHEET 117								0	0	0	0.0	0	0	0	0	0	0	0	0	
SUBTOTALS CARRIED TO SHEET 117								3.82	3942	7615	230.2	7615	1224	1268	513	425	308	0	0	

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PAVEMENT CALCULATIONS

HAM-PLAINFIELD RD ROUNDABOUTS

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ALIGNMENT	STATION TO STATION		SIDE	LENGTH (L)	AVERAGE WIDTH (W)	SURFACE AREA (A) A=LxW	PLANIMETERED AREAS	204 PROOF ROLLING	254 PAVEMENT PLANING, ASPHALT CONCRETE	206 CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP	206 CEMENT	206 CURING COAT	301 ASPHALT CONCRETE BASE, PG64-22	304 AGGREGATE BASE	407 TACK COAT (0.04 GAL/SY)	441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22	441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (448)	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (448)	NOTES
													7"	6"		1.5"	1.75"	1.5"	1.75"	
								HOUR	SY	SY	TON	SY	CY	CY	GAL	CY	CY	CY	CY	
PLAINFIELD RD	718+90.86	720+92.88	LT/RT	202.02			807.57						17		4	4	4			
							1007.85	0.06		112	3.4	112		19						
GEORGETOWN RD	876+45.00	876+68.16	LT/RT	23.16			983.41		109						5	5				
PLAINFIELD RD	721+71.19	727+00.00	RT	528.81			1520.04						33		8	7	8			
							3094.30	0.17		344	10.4	344		57						
PLAINFIELD RD	722+20.00	723+69.49	LT/RT	149.49	53.00	7922.97			880						44	37				
PLAINFIELD RD	721+45.03	727+00.00	LT	554.97			1568.60						34		9	7	8			
							3234.96	0.18		359	10.9	359		60						
PLAINFIELD RD	723+69.49	724+07.18	RT	37.69			718.04		80						4	3				
PLAINFIELD RD	723+69.49	724+07.18	LT	37.69			837.83		93						5	4				
PLAINFIELD RD	723+69.49	727+00.00	LT/RT	330.51			1526.81						33		8	7	8			
							2185.50	0.12		243	7.3	243		40						
PLAINFIELD RD	724+17.18	727+00.00	RT	282.82	19.00	5373.64			597						30	25				
PLAINFIELD RD	724+17.18	727+00.00	LT	282.82	19.00	5373.64			597						30	25				
PLAINFIELD RD	727+00.00	727+47.30	RT	47.30			1088.17						24		6	5	6			
							1277.45	0.07		142	4.3	142		24						
PLAINFIELD RD	727+00.00	727+32.04	LT	32.04			736.86						16		4	3	4			
							865.00	0.05		96	2.9	96		16						
REF LINE PP-SE	300+00.00	301+84.97	LT	184.97			3888.08						84		22	18	21			
							4582.40	0.25		509	15.4	509		85						
REF LINE PP-SE	301+84.97	303+79.87	LT	194.90			2589.23						56		14	12	14			
							3219.20	0.18		358	10.8	358		60						
REF LINE PP-SW	400+00.00	404+64.34	RT	464.34			10665.94						230		59	49	58			
							12325.29	0.68		1369	41.3	1369		228						
REF LINE PP-CC	90+00.00	94+05.26	LT/RT	405.26			8518.40						184		47	39	46			
							13118.46	0.73		1458	44	1458		243						
REF LINE PP-NE	200+00.00	204+92.39	LT	492.39			11051.92						239		61	51	60			
							12715.97	0.71		1413	42.7	1413		235						
REF LINE PP-NW	100+68.46	105+41.49	RT	473.03			9829.78						212		55	46	53			
							11499.20	0.64		1278	38.6	1278		213						
REED HARTMAN HWY	732+46.58	734+10.00	LT	163.42			4463.63						96		25	21	24			
							4966.22	0.28		552	16.7	552		92						
REED HARTMAN HWY	732+98.82	734+10.00	RT	111.18			2632.01						57		15	12	14			
							2953.92	0.16		328	9.9	328		55						
REED HARTMAN HWY	734+10.00	735+05.91	LT	95.91	2.00	191.82							4		1	1	1			
					5.00	479.55		0.03		53	1.6	53		9						
**100% LOCAL FUNDING SPLIT CARRIED TO SHEET 117								0	0	0	0.0	0	0	0	0	0	0	0	0	
SUBTOTALS CARRIED TO SHEET 117								4.31	2356	8614	260.2	8614	1319	1436	456	381	329	0	0	

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HAM-PLAINFIELD RD ROUNDABOUTS

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ALIGNMENT	STATION TO STATION		SIDE	LENGTH (L)	AVERAGE WIDTH (W)	SURFACE AREA (A) A=LxW	PLANIMETERED AREAS	204 PROOF ROLLING	254 PAVEMENT PLANING, ASPHALT CONCRETE	206 CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP	206 CEMENT	206 CURING COAT	301 ASPHALT CONCRETE BASE, PG64-22 7"	304 AGGREGATE BASE 6"	407 TACK COAT (0.04 GAL/SY)	441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22 1.5"	441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448) 1.75"	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (448) 1.5"	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (448) 1.75"	NOTES
								HOUR	SY	SY	TON	SY	CY	CY	GAL	CY	CY	CY	CY	
PLAINFIELD RD	900+00.00	901+35.03	LT	135.03	2.00	270.06							6		2	1	1			
					5.00	675.15		0.04		75	2.3	75		13						
PLAINFIELD RD	901+35.03	901+57.63	LT	22.60			923.23						20		5	4	5			
							1107.81	0.06		123	3.7	123		21						
PEPPERMILL LN	852+62.94	852+88.07	LT	25.13			436.15						9		2	2	2			
							548.11	0.03		61	1.8	61		10						
PEPPERMILL LN	952+74.06	952+88.07	RT	14.01			139.86						3		1	1	1			
							181.59	0.01		20	0.6	20		3						
EX HUNT RD	797+57.90	798+74.46	LT	116.56	2.00	233.12							5		1	1	1			**
					5.00	582.80		0.03		65	2	65		11						**
EX HUNT RD	789+74.46	800+29.18	LT/RT	1054.72			6160.17						133		34	29	33			**
							7069.64	0.39		786	23.7	786		131						**
REF LINE HK-NW	101+82.56	103+66.71	RT	184.15			4148.69						90		23	19	22			**
							4717.55	0.26		524	15.8	524		87						**
REF LINE HK-WE	302+00.31	302+80.32	LT	80.01			991.93						21		6	5	5			**
							1285.86	0.07		143	4.3	143		24						**
REF LINE PH-CC	90+00.00	94+05.26	LT/RT	405.26			4912.79						106		27	23	27			**
							9237.40	0.51		1026	31	1026		171						**
REF LINE HK-NE	200+29.56	202+13.19	RT	183.63			4384.92						95		24	20	24			**
							5040.33	0.28		560	16.9	560		93						**
REF LINE HK-WE	303+40.78	304+56.34	LT	115.56			1624.85						35		9	8	9			**
							2043.20	0.11		227	6.9	227		38						**
EX HUNT RD	802+59.58	803+25.00	LT	65.42	16.00	1046.72							23		6	5	6			**
					20.00	1308.40		0.07		145	4.4	145		24						**
EX HUNT RD	802+68.39	803+25.00	RT	56.61	16.00	905.76							20		5	4	5			**
					20.00	1132.20		0.06		126	3.8	126		21						**
EX HUNT RD	803+25.02	804+69.38	LT	144.36			787.17						17		4	4	4			**
							1069.87	0.06		119	3.6	119		20						**
EX HUNT RD	803+25.00	805+41.88	LT	216.88			2530.49		281						14	12				**
EX HUNT RD	803+25.00	805+47.89	LT	222.89	2.00	505.78	60.00						11		3	2	3			**
					3.00	728.67	60.00	0.04		81	2.4	81		13						**
EX HUNT RD	803+25.00	805+47.89	RT	222.89	2.00	457.78	12.00						10		3	2	2			**
					3.00	680.67	12.00	0.04		76	2.3	76		13						**
EX HUNT RD	803+25.00	805+41.88	RT	216.88		2607.96			290						14	12				**
EX HUNT RD	803+25.00	805+47.89	RT	222.89	2.00	505.78	60.00						11		3	2	3			**
					5.00	1174.45	60.00	0.07		130	3.9	130		22						**
EX HUNT RD	804+68.68	805+47.89	LT	79.21			565.85						12		3	3	3			**
							1273.14	0.07		141	4.3	141		24						**
**100% LOCAL FUNDING SPLIT CARRIED TO SHEET 117								2.06	571	4149	125.3	4149	589	692	179	151	147	0	0	
SUBTOTALS CARRIED TO SHEET 117								2.20	571	4428	133.7	4428	627	739	189	159	156	0	0	

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HAM-PLAINFIELD RD ROUNDABOUTS

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ALIGNMENT	STATION TO STATION		SIDE	LENGTH (L)	AVERAGE WIDTH (W)	SURFACE AREA (A) A=LxW	PLANIMETERED AREAS	204 PROOF ROLLING	254 PAVEMENT PLANING, ASPHALT CONCRETE	206 CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP	206 CEMENT	206 CURING COAT	301 ASPHALT CONCRETE BASE, PG64-22	304 AGGREGATE BASE	407 TACK COAT (0.04 GAL/SY)	441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22	441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (448)	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (448)	NOTES
													7"	6"		1.5"	1.75"	1.5"	1.75"	
								HOUR	SY	SY	TON	SY	CY	CY	GAL	CY	CY	CY	CY	
EX HUNT RD	805+47.89	807+25.00	LT	177.11	2.00	354.22							8		2	2	2			
					3.00	531.33		0.03		59	1.8	59		10						
EX HUNT RD	805+47.87	807+25.00	LT	177.13		3364.45			374						19	16				
EX HUNT RD	805+47.89	807+25.00	LT	177.11	2.00	354.22							8		2	2	2			
					3.00	531.33		0.03		59	1.8	59		10						
EX HUNT RD	805+47.89	807+25.00	RT	177.11	2.00	354.22							8		2	2	2			
					3.00	531.33		0.03		59	1.8	59		10						
EX HUNT RD	805+47.89	807+25.00	RT	177.11		2125.22			236						12	10				
EX HUNT RD	805+47.89	807+25.00	RT	177.11	2.00	354.22							8		2	2	2			
					5.00	885.55		0.05		98	3	98		16						
EX HUNT RD	807+25.00	807+67.73	LT	42.73	23.00	982.79							21		5	5	5			
					27.00	1153.71		0.06		128	3.9	128		21						
EX HUNT RD	807+25.00	807+67.73	RT	42.73	16.00	683.68							15		4	3	4			
					20.00	854.60		0.05		95	2.9	95		16						
HUNT RD	500+00.00	503+57.59	LT	357.59	23.00	8224.57							178		46	38	44			
					27.00	9654.93		0.54		1073	32.4	1073		179						
HUNT RD	500+00.00	504+31.53	RT	431.53	16.00	6904.48							149		38	32	37			
					20.00	8630.60		0.48		959	29	959		160						
HUNT RD	503+57.59	503+91.12	LT	33.53			424.98						9		2	2	2			
							458.76	0.03		51	1.5	51		8						
REF LINE PH-WR	11+60.88	12+22.87	LT/RT	61.99	16.00	991.84							21		6	5	5			
					20.00	1239.80		0.07		138	4.2	138		23						
EX HUNT RD	809+34.12	811+77.35	RT	243.23		5401.06			600						30	25				
EX HUNT RD	809+34.12	811+77.35	RT	243.23			1947.78						42		11	9	11			
							2150.99	0.12		239	7.2	239		40						
**100% LOCAL FUNDING SPLIT CARRIED TO SHEET 117								0	0	0	0.0	0	0	0	0	0	0	0	0	
SUBTOTALS CARRIED TO SHEET 117								1.49	1210	2958	89.5	2958	467	493	181	153	116	0	0	

CALCULATED LZS
CHECKED JS

PAVEMENT CALCULATIONS

HAM-PLAINFIELD RD ROUNDABOUTS

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ALIGNMENT	STATION TO STATION		SIDE	LENGTH (L)	AVERAGE WIDTH (W)	SURFACE AREA (A) A=LxW	PLANIMETERED AREAS	204 PROOF ROLLING	254 PAVEMENT PLANING, ASPHALT CONCRETE	206 CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP	206 CEMENT	206 CURING COAT	301 ASPHALT CONCRETE BASE, PG64-22	304 AGGREGATE BASE	407 TACK COAT (0.04 GAL/SY)	441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22	441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (448)	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (448)	NOTES
													7"	6"		1.5"	1.75"	1.5"	1.75"	
								HOUR	SY	SY	TON	SY	CY	CY	GAL	CY	CY	CY	CY	
EX HUNT RD	814+34.82	817+50.00	RT	315.18			5074.54						110		28	23	27			
							6306.25	0.35		701	21.2	701		117						
EX HUNT RD	814+58.59	817+50.00	LT	291.41			6095.59						132		34	28	33			
							6515.21	0.36		724	21.9	724		121						
EX HUNT RD	817+50.00	818+77.99	LT	127.99	2.00	255.98							6		1	1	1			
					3.00	383.97		0.02		43	1.3	43		7						
EX HUNT RD	817+50.00	818+50.43	LT/RT	100.43			4020.78		447						22	19				
EX HUNT RD	817+50.00	818+50.43	RT	100.43	2.00	200.86							4		1	1	1			
					5.00	502.15		0.03		56	1.7	56		9						
SR 126 ENTRANCE RAMP	600+34.45	606+80.86	RT	646.41			17277.58		1920						96			80		
SR 126 ENTRANCE RAMP	600+44.10	609+59.90	RT	915.80			9023.08						195		50			42	49	
							9922.96	0.55		1103	33.3	1103		184						
SR 126 ENTRANCE RAMP	606+86.95	609+59.90	RT	272.95			5497.63		611						31			25		
**100% LOCAL FUNDING SPLIT SUBTOTALS FROM THIS SHEET								0	0	0	0	0	0	0	0	0	0	0	0	
**100% LOCAL FUNDING SPLIT SUBTOTALS FROM SHEET 113								0	0	0	0	0	0	0	0	0	0	0	0	
**100% LOCAL FUNDING SPLIT SUBTOTALS FROM SHEET 114								0	0	0	0	0	0	0	0	0	0	0	0	
**100% LOCAL FUNDING SPLIT SUBTOTALS FROM SHEET 115								2.06	571	4149	125.3	4149	589	692	179	151	147	0	0	
**100% LOCAL FUNDING SPLIT SUBTOTALS FROM SHEET 116								0	0	0	0	0	0	0	0	0	0	0	0	
**100% LOCAL FUNDING SPLIT CARRIED TO GENERAL SUMMARY								2	571	4149	125	4149	589	692	179	151	147	0	0	
SUBTOTALS FROM THIS SHEET								1.31	2978	2627	79.4	2627	447	438	263	72	62	147	49	
SUBTOTALS FROM SHEET 113								3.82	3942	7615	230.2	7615	1224	1268	513	425	308	0	0	
SUBTOTALS FROM SHEET 114								4.31	2356	8614	260.2	8614	1319	1436	456	381	329	0	0	
SUBTOTALS FROM SHEET 115								2.20	571	4428	133.7	4428	627	739	189	159	156	0	0	
SUBTOTALS FROM SHEET 116								1.49	1210	2958	89.5	2958	467	493	181	153	116	0	0	
TOTALS CARRIED TO GENERAL SUMMARY								14	11057	26242	793	26242	4084	4374	1602	1190	971	147	49	

PAVEMENT CALCULATIONS

CALCULATED LZS
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HAM-PLAINFIELD RD
ROUNDABOUTS

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REFERENCE NO.	SHEET NO.	ALIGNMENT	STATION	SIDE	DRIVE TYPE	DRIVE ANGLE	DRIVEWAY LENGTH "L"	WIDTH "W"	CADD GENERATED SURFACE AREA	202 PAVEMENT REMOVED	202 PAVEMENT REMOVED, ASPHALT		204 SUBGRADE COMPACTION	301 ASPHALT CONCRETE BASE, PG64-22 5"		407 NON-TRACKING TACK COAT	441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), (DRIVEWAYS), AS PER PLAN 1.5"		452 7" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P	452 9" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P	NOTES
						DEG.	FT.	FT.	SQ. FT.	SY	SY		SY	CY		GAL	CY		SY	SY	
DR-1	132	PLAINFIELD RD	712+17.00	LT	COMMERCIAL	85° 04′ 16″	16.2	33.4	508.43	38	4									56	
									527.52				59	8							
DR-2	132	PLAINFIELD RD	712+29.00	RT	COMMERCIAL	89° 45′ 23″	16.8	16.0	277.97	28	4									31	
									293.86				33	5							
DR-3	132	PLAINFIELD RD	712+67.00	RT	COMMERCIAL	122° 41′ 58″	39.0	28.9	976.62	110										109	
									1032.65				115	16							
DR-4	132	PLAINFIELD RD	713+43.00	LT	COMMERCIAL	61° 17′ 55″	18.7	34.6	546.52	24	33									61	
									592.33				66	9							
DR-5	133	PLAINFIELD RD	717+69.00	RT	COMMERCIAL	100° 17′ 19″	39.1	23.9	904.07	141						4	4				
									1073.22				119	17							
DR-6	133	PLAINFIELD RD	717+81.00	LT	COMMERCIAL	91° 21′ 32″	27.9	41.8	1264.92		181					6	6				
									1307.20				145	20							
DR-7	133	PLAINFIELD RD	718+60.00	RT	COMMERCIAL	89° 54′ 19″	12.1	13.2	143.94		17					1	1				
									166.49				18	3							
DR-8	143	PEPPERMILL LN	952+22.00	RT	RESIDENTIAL	74° 06′ 08″	17.8	17.0	268.04	35			30	4					30		
DR-9	143	PEPPERMILL LN	952+77.00	RT	RESIDENTIAL	90° 40′ 54″	14.1	10.0	123.83	16			14	2					14		
DR-10	143	EX HUNT RD	804+19.00	LT	COMMERCIAL	139° 43′ 18″	50.5	20.0	1221.02							5	6				
									1441.14				160	22							
DR-11	139	EX HUNT RD	805+24.00	LT	COMMERCIAL	44° 47′ 48″	45.7	20.9	918.44							4	4				**
									1035.91				115	16							**
DR-12	140	HUNT RD	501+88.57	LT	COMMERCIAL	75° 12′ 27″	38.1	24.8	996.30											111	**
									1074.26				119	17							**
																					**
DR-13	141	HUNT RD	503+30.00	RT	COMMERCIAL	129° 17′ 09″	85.1	26.5	2326.87							10	11				
									2489.99				277	38							
DR-14	141	HUNT RD	504+77.00	RT	COMMERCIAL	30° 04′ 32″	90.9	26.5	2385.02											265	
									2554.70				284	39							
DR-15	141	EX HUNT RD	815+12.00	RT	COMMERCIAL	89° 59′ 20″	29.1	26.0	559.38	85	45									62	
									270.03							1	1				
									985.49				109	15							
DR-16	142	EX HUNT RD	816+99.00	RT	COMMERCIAL	91° 46′ 20″	26.1	36.6	968.52	133			108	15		4	4				
**100% LOCAL FUNDING SPLIT CARRIED TO GENERAL SUMMARY										0	0		234	33		4	4		0	111	
TOTALS CARRIED TO GENERAL SUMMARY										610	284		1771	246		35	37		44	695	

CALCULATED LZS
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DRIVEWAY CALCULATIONS

HAM-PLAINFIELD RD ROUNDABOUTS

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REFERENCE NO.	STORM SEWER PROFILE SHEET NO.	ALIGNMENT	STATION FROM	STATION TO	SIDE	611 12" CONDUIT, TYPE B FT	12" CONDUIT, TYPE C FT	15" CONDUIT, TYPE B FT	15" CONDUIT, TYPE C FT	18" CONDUIT, TYPE B FT	18" CONDUIT, TYPE C FT	21" CONDUIT, TYPE C FT	24" CONDUIT, TYPE B FT	24" CONDUIT, TYPE C FT	48" CONDUIT, TYPE B FT	CATCH BASIN, NO. 3 EACH	CATCH BASIN, NO. 3A EACH	CATCH BASIN, NO. 2-2B EACH	CATCH BASIN, NO. 6 EACH	CATCH BASIN ADJUSTED TO GRADE EACH	MANHOLE, NO. 3 EACH	MANHOLE, NO. 3 WITH 108" BASE I.D. AND 12" WEIR EACH	MANHOLE ADJUSTED TO GRADE EACH	895 MANUFACTURED WATER QUALITY STRUCTURE, TYPE 4 EACH	NOTES
D-101	245	PLAINFIELD RD	713+54.29	714+10.66	LT	57											1								
D-102	245	PLAINFIELD RD	713+95.31	714+10.66	LT/RT	40		89									1								
D-103	245	PLAINFIELD RD	714+17.05	714+10.66	RT	7											1								
D-104	245	PLAINFIELD RD	714+10.66		RT																1				
D-105	245	PLAINFIELD RD	300+89.42		RT																			1	
D-106	245	EX HUNT RD	815+95.94	815+89.48	LT	22											1								
D-107	245	EX HUNT RD	815+89.48	816+10.72	LT			51								1									
D-108	245	EX HUNT RD	816+10.72	816+10.72	RT	7											1								
D-109	245	EX HUNT RD	816+10.72	817+11.02	RT				10		100										1				
D-110	245	EX HUNT RD	817+11.02	818+42.65	RT							132									1				
D-111	245	EX HUNT RD	818+42.65	818+43.14	RT															1					
D-112	245	EX HUNT RD	818+43.14		LT															1					
D-120	247	REF LINE PH-CC	91+18.80	5+92.06	RT	42										1									
D-121	247	REF LINE PH-BI-2	5+92.06	102+52.95	RT	21										1									
D-122	246 & 247	REF LINE PP-NW	102+52.95	717+44.04	RT		127														1				
D-123	247	REF LINE PP-NW	102+54.00	102+52.95	LT	7											1								
D-124	246	PLAINFIELD RD	717+44.04	717+68.58	LT	25															1				
D-125	247	PLAINFIELD RD	717+30.59	717+58.02	RT	41											1								
D-126	247	PLAINFIELD RD	717+58.02	717+62.08	RT	44															1				
D-127	247	PLAINFIELD RD	717+62.08	717+68.58	LT	8													1						
D-128	246 & 247	PLAINFIELD RD	717+68.58	719+52.33	LT	184															1				
D-129	248	PLAINFIELD RD	719+52.29	718+52.33	LT	11											1								
D-130	246 & 248	PLAINFIELD RD	719+52.33	720+75.00	LT			123													1				
D-130A	246 & 248	PLAINFIELD RD	720+75.00	721+09.92	LT			35													1				
D-131	248	PLAINFIELD RD	721+09.92	722+15.00	LT			105													1				
D-132	248	PLAINFIELD RD	720+75.00	720+75.00	LT	8										1									
D-131A	248	PLAINFIELD RD	721+10.59	721+09.92	LT	14														1					
D-133	248	PLAINFIELD RD	720+99.90	721+09.92	LT	20										1									
D-134	248	PLAINFIELD RD	750+61.00	722+15.00	RT		49									1									
D-134A	248	PLAINFIELD RD	722+15.00	722+15.00	RT	66											1								
D-135	246 & 248	PLAINFIELD RD	722+15.00	724+12.44	LT					197											1				
D-136	248	PLAINFIELD RD	724+12.11	724+12.11	RT	30											1								
D-137	248	PLAINFIELD RD	724+12.11	724+12.38	RT	30															1				
D-138	248	PLAINFIELD RD	724+12.38	724+12.44	LT		7										1								
D-139	246 & 248	PLAINFIELD RD	724+12.44	725+55.36	LT						10										1				
D-140	247	PLAINFIELD RD	725+55.36		LT																			1	
D-141			NOT	USED																					
D-142			NOT	USED																					
D-143	247 & 249	PLAINFIELD RD	727+03.81		LT																			1	
D-144	247	PLAINFIELD RD	727+19.08	727+03.81	LT	16											1								
D-145	247	PLAINFIELD RD	727+43.02	727+19.08	LT	24										1									
D-146	247	PLAINFIELD RD	727+75.00	727+43.02	LT	32											1								
D-147	249	PLAINFIELD RD	727+03.62	727+03.81	RT	64											1								
D-148	249	PLAINFIELD RD	727+43.02	727+03.62	RT	39										1									
D-149	249	PLAINFIELD RD	727+75.00	727+43.02	RT	32											1								
D-150	247	PLAINFIELD RD	728+69.97	727+75.00	LT	97											1								
D-151	249	PLAINFIELD RD	728+17.89		RT																			1	
**100% LOCAL FUNDING SPLIT CARRIED TO SHEET 121						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SUBTOTALS CARRIED TO SHEET 121						988	183	403	10	197	110	132	0	0	0	8	16	0	1	3	13	0	4	0	

CALCULATED LZS
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DRAINAGE SUBSUMMARY

HAM-PLAINFIELD RD ROUNDABOUTS

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REFERENCE NO.	STORM SEWER PROFILE SHEET NO.	ALIGNMENT	STATION FROM	STATION TO	SIDE	611 12" CONDUIT, TYPE B FT	12" CONDUIT, TYPE C FT	15" CONDUIT, TYPE B FT	15" CONDUIT, TYPE C FT	18" CONDUIT, TYPE B FT	18" CONDUIT, TYPE C FT	21" CONDUIT, TYPE C FT	24" CONDUIT, TYPE B FT	24" CONDUIT, TYPE C FT	48" CONDUIT, TYPE B FT	CATCH BASIN, NO. 3 EACH	CATCH BASIN, NO. 3A EACH	CATCH BASIN, NO. 2-2B EACH	CATCH BASIN, NO. 6 EACH	CATCH BASIN ADJUSTED TO GRADE EACH	MANHOLE, NO. 3 EACH	MANHOLE, NO. 3 WITH 108" BASE I.D. AND 12" WEIR EACH	MANHOLE ADJUSTED TO GRADE EACH	895 MANUFACTURED WATER QUALITY STRUCTURE, TYPE 4 EACH	NOTES
D-160	249	PEPPERMILL LN	950+73.28	728+44.16	RT	20															1				
D-161	249	PEPPERMILL LN	950+93.50	950+73.28	RT	20										1									
D-162	249	PEPPERMILL LN	950+63.89		RT																		1		
D-163	249	PEPPERMILL LN	951+01.07	950+63.89	LT	45										1									
D-164			NOT	USED																					
D-165			NOT	USED																					
D-166			NOT	USED																					
D-167	250	REF LINE PH-SW	402+18.81	102+84.98	LT	99											1								
D-168	250	REF LINE PP-NW	102+47.97	102+84.98	LT	37											1								
D-169	250	REF LINE PH-NW	102+84.98	730+46.77	LT	42																1			
D-170	250	REED HARTMAN HWY	730+46.77		LT																			1	
D-171	250	REED HARTMAN HWY	730+65.04	730+46.77	LT	18										1									
D-172	250	REED HARTMAN HWY	730+64.23	730+46.77	RT					70											1				
D-173	250	REED HARTMAN HWY	730+70.16	730+64.23	RT	22											1								
D-174	250	REED HARTMAN HWY	732+47.09	730+64.23	RT			177																1	
D-175	250	PLAINFIELD RD	732+54.56	732+47.09	RT	9										1									
D-176	250	PLAINFIELD RD	732+54.56	732+54.56	LT	56										1									
D-177	250	REED HARTMAN HWY	734+54.76		LT															1					
D-178			NOT	USED																					
D-179			NOT	USED																					
D-180			NOT	USED																					
D-181			NOT	USED																					
D-182			NOT	USED																					
D-183			NOT	USED																					
D-184			NOT	USED																					
D-185			NOT	USED																					
D-186			NOT	USED																					
D-187			NOT	USED																					
D-188			NOT	USED																					
D-189			NOT	USED																					
D-190	251	PLAINFIELD RD	902+39.08		LT		10										1								
D-191	251	PLAINFIELD RD	901+16.49		LT															1					
D-199	252	REF LINE PH-SW	401+80.00	402+00.00	LT	20											1								
D-200	252	REF LINE PH-SW	402+00.00	503+74.32	LT		125									1									
D-201	252 & 253	HUNT RD	503+74.32	502+85.00	RT			85								1									
D-202	253	HUNT RD	503+74.76	503+74.32	LT	46										1									
D-203	252 & 253	HUNT RD	502+85.00	502+23.05	RT						61						1								
D-204	253	HUNT RD	502+85.00	502+85.00	LT	46											1								
D-205	252	HUNT RD	502+23.05	501+66.12	RT					60											1				
D-206	252 & 253	HUNT RD	501+66.12	501+12.15	RT					56											1				
D-207	252	HUNT RD	501+12.15	807+45.00	LT					131											1				
D-208	253	EX HUNT RD	807+45.00	807+45.00	LT	8											1								
D-209	253	EX HUNT RD	807+45.00	807+45.00	RT	52											1								
D-210	252 & 253	EX HUNT RD	807+45.00	805+44.81	LT					200											1				
**100% LOCAL FUNDING SPLIT CARRIED TO SHEET 121						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SUBTOTALS CARRIED TO SHEET 121						540	135	262	0	517	61	0	0	0	0	8	9	0	0	2	7	0	3	0	

CALCULATED LZS
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DRAINAGE SUBSUMMARY

HAM-PLAINFIELD RD ROUNDABOUTS

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REFERENCE NO.	STORM SEWER PROFILE SHEET NO.	ALIGNMENT	STATION FROM	STATION TO	SIDE	611 12" CONDUIT, TYPE B FT	12" CONDUIT, TYPE C FT	15" CONDUIT, TYPE B FT	15" CONDUIT, TYPE C FT	18" CONDUIT, TYPE B FT	18" CONDUIT, TYPE C FT	21" CONDUIT, TYPE C FT	24" CONDUIT, TYPE B FT	24" CONDUIT, TYPE C FT	48" CONDUIT, TYPE B FT	CATCH BASIN, NO. 3 EACH	CATCH BASIN, NO. 3A EACH	CATCH BASIN, NO. 2-2B EACH	CATCH BASIN, NO. 6 EACH	CATCH BASIN ADJUSTED TO GRADE EACH	MANHOLE, NO. 3 EACH	MANHOLE, NO. 3 WITH 108" BASE I.D. AND 12" WEIR EACH	MANHOLE ADJUSTED TO GRADE EACH	895 MANUFACTURED WATER QUALITY STRUCTURE, TYPE 4 EACH	NOTES
D-211	252 & 253	EX HUNT RD	805+44.81	804+69.33	LT					76											1				
D-212	253	EX HUNT RD	805+45.00	805+44.81	LT	8										1									
D-213	253	EX HUNT RD	805+45.00	805+44.81	RT	39											1								
D-214	251	EX HUNT RD	804+69.33	802+95.00	LT					174											1				**
D-215	253	EX HUNT RD	803+50.00	803+44.63	RT	8											1								**
D-216	253	EX HUNT RD	803+44.63	802+95.00	RT	73														1					**
D-217	251 & 253	EX HUNT RD	802+95.00	201+38.03	LT					68											1				**
D-218	253	EX HUNT RD	802+95.00	802+95.00	LT	13											1								**
D-219	253	REF LINE HK-NW	201+71.43	201+38.03	LT	12										1									**
D-220	251 & 253	REF LINE HK-NE	201+38.03	5+75.00	LT					71											1				**
D-221	254	REF LINE HK-NE	201+04.96	5+75.00	LT	24										1									**
D-222	251 & 254	KROGER ENTRANCE	5+75.00	102+38.42	LT								81								1				**
D-223	254	REF LINE HK-NW	103+25.00	201+04.96	LT	54											1								**
D-224	254	EX HUNT RD	801+25.00	5+75.00	LT	57															1				**
D-225	254	REF LINE HK-CC	302+73.94	801+25.00	RT	59										1									**
D-226	254	REF LINE HK-NW	102+40.00	102+38.42	LT		14										1								**
D-227	251 & 254	REF LINE HK-NW	102+38.42	102+10.46	LT									27							1				**
D-228	251	REF LINE HK-NW	102+10.46	101+80.00	LT									28							1	1		1	**
D-229	251 & 254	REF LINE HK-NW	101+80.00		LT									17	10						1				**
D-230	254	REF LINE HK-NW	101+77.00	101+80.00	LT		9											1							**
D-231	254	EX HUNT RD	811+77.34	811+18.27	RT	59										1									**
D-232	254	EX HUNT RD	809+34.11	501+66.12	RT	50										1									**
D-240	254	SR 126 ENTRANCE RAMP	606+83.23	606+83.36	RT	32										1									
**100% LOCAL FUNDING SPLIT SUBTOTALS FROM THIS SHEET						409	23	0	0	313	0	0	81	72	10	5	4	1	0	1	8	1	0	1	
**100% LOCAL FUNDING SPLIT SUBTOTALS FROM SHEET 119						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
**100% LOCAL FUNDING SPLIT SUBTOTALS FROM SHEET 120						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
**100% LOCAL FUNDING SPLIT CARRIED TO GENERAL SUMMARY						409	23	0	0	313	0	0	81	72	10	5	4	1	0	1	8	1	0	1	
SUBTOTALS FROM THIS SHEET						488	23	0	0	389	0	0	81	72	10	7	5	1	0	1	9	1	0	1	
SUBTOTALS FROM SHEET 119						988	183	403	10	197	110	132	0	0	0	8	16	0	1	3	13	0	4	0	
SUBTOTALS FROM SHEET 120						540	135	262	0	517	61	0	0	0	0	8	9	0	0	2	7	0	3	0	
TOTALS CARRIED TO GENERAL SUMMARY						2016	341	665	10	1103	171	132	81	72	10	23	30	1	1	6	29	1	7	1	

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DRAINAGE SUBSUMMARY

HAM-PLAINFIELD RD ROUNDABOUTS

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REFERENCE NO.	SHEET NO.	ALIGNMENT	STATION FROM	STATION TO	SIDE	OUTLET TO DRAINAGE STRUCTURE			601 TIED CONCRETE BLOCK MAT, TYPE 1 SY		605 6" SHALLOW PIPE UNDERDRAINS FT			611 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS FT		611 PRECAST REINFORCED CONCRETE OUTLET EACH				FOR INFORMATION ONLY 6" ENDCAP	6" X 6" TEE	6" X 90° BEND	6" X 945 BEND	NOTES
UD-101	131 - 132	PLAINFIELD RD	711+57.93	713+54.29	RT	D-101					183			10						1				
UD-102	131 - 132	PLAINFIELD RD	711+73.57	713+95.32	LT	D-102					213			10						1				
UD-103	132 - 133, 141	PLAINFIELD RD	713+54.29	816+10.72	RT	D-108					219			10						1				
UD-104	132 & 141	PLAINFIELD RD	713+95.32	505+20.23	LT	D-199					93			10						1				
UD-105	132 - 133, 141	PLAINFIELD RD	715+72.20	717+30.63	RT	D-125					180			10						1				
UD-106	132 - 133, 141	PLAINFIELD RD	716+21.64	717+62.08	LT	D-127					129			10						1				
UD-107	133	PLAINFIELD RD	716+16.38	717+62.08	LT	D-127					135			23						1			1	
UD-108	133	PLAINFIELD RD	717+30.63	720+99.90	RT	D-133					352			10						1				
UD-109	133	PLAINFIELD RD	717+62.08	719+52.29	LT	D-129					176			10						1				
UD-110	133	PLAINFIELD RD	719+52.29	720+75.00	LT	D-132					108			10						1				
UD-111	133	PLAINFIELD RD	720+75.00	721+09.92	LT	D-131					20			10						1	1			
UD-112	133	GEORGETOWN RD	876+57.15	876+66.86	LT						25									1				
UD-113	133 - 134	PLAINFIELD RD	721+74.58	722+15.00	RT	D-134A					41			10						1				
UD-114	133 - 134	PLAINFIELD RD	722+15.00	724+12.11	RT	D-136					183			10						1				
UD-115	133 - 134	PLAINFIELD RD	721+63.38	724+12.38	LT	D-138					254			10						1				
UD-116	134	PLAINFIELD RD	724+12.11	726+03.53	RT	D-142					177			10						1				
UD-117	134	PLAINFIELD RD	724+12.38	725+54.97	LT	1183					127			10						1				
UD-118	134	PLAINFIELD RD	725+54.97	727+19.08	LT	D-144					149			10						1				
UD-119	134	PLAINFIELD RD	726+03.53	727+03.62	RT	D-147					86			10						1				
UD-120	134	PLAINFIELD RD	727+03.62	727+43.02	RT	D-148					34			10						1				
UD-121	134	PLAINFIELD RD	727+19.08	727+43.02	LT	D-145					10			8						1				
UD-122	134	PLAINFIELD RD	727+75.00	727+43.02	LT	D-145					16			10						1				
UD-123	134	PLAINFIELD RD	727+75.00	727+43.02	RT	D-148					16			10						1				
UD-124	134 - 135	PLAINFIELD RD	728+68.97	727+75.00	LT	D-146					83			10						1				
UD-125	134 - 135	PLAINFIELD RD	728+58.82	727+75.00	RT	D-149					72			10						1				
UD-126	135, 143, 144	PLAINFIELD RD	729+36.58	728+68.97	LT	D-150					64			10						1				
UD-127	135, 143, 144	PLAINFIELD RD	728+58.82	729+18.00	RT	D-161					83			10						1				
UD-128	134 - 135, 144	PLAINFIELD RD	901+37.52	903+93.64	RT	D-167					270			10						1				
UD-129	135	PLAINFIELD RD	900+00.00	901+16.49	LT	D-191					100			10						1				
UD-130	135	PLAINFIELD RD	901+16.49	902+39.11	LT	D-192					104			10						1				
UD-131	135, 143, 144	PLAINFIELD RD	902+39.11	903+36.78	LT	D-168					85			10						1				
UD-132	135, 143, 144	PLAINFIELD RD	903+36.78	904+09.78	LT	D-171					83			10						1				
UD-134	135, 143, 144	REED HARTMAN HWY	730+70.16	729+78.08	RT	D-163					84			10						1				
UD-135	135 & 144	REED HARTMAN HWY	732+54.56	730+59.88	LT	D-171					183			10						1				
UD-136	135 & 144	REED HARTMAN HWY	732+54.96	730+70.16	RT	D-173					164			10						1				
UD-137	144	REED HARTMAN HWY	734+06.56	732+54.96	RT	D-175					68			10						1				
UD-138	144	REED HARTMAN HWY	734+54.76	732+54.56	LT	D-176					188			10						1				
UD-139	135, 143, 144	REF LINE PP-CC	90+82.33	92+89.42	RT	D-160					156			33						1	1			
UD-140	135, 143, 144	REF LINE PP-CC	90+82.33	92+89.42	RT	D-160					149									1				
UD-141	136 - 137	SR 126 ENTRANCE RAMP	600+58.88	606+83.25	RT	D-240					608			10						1				
UD-141A	136 - 137	SR 126 ENTRANCE RAMP	600+91.21	606+83.25	RT	D-240					583			10						1			1	
UD-142	143	PEPPERMILL LN	952+85.60	951+01.08	LT	D-163					188			10						1				
UD-143	143	PEPPERMILL LN	952+87.98	950+93.73	RT	D-161					181			10						1				
**100% LOCAL FUNDING SPLIT CARRIED TO SHEET 123									0		0			0		0								
SUBTOTALS CARRIED TO SHEET 123									0		6422			444		0								

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UNDERDRAIN SUBSUMMARY

HAM-PLAINFIELD RD ROUNDABOUTS

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REFERENCE NO.	SHEET NO.	ALIGNMENT	STATION FROM	STATION TO	SIDE	OUTLET TO DRAINAGE STRUCTURE			601 TIED CONCRETE BLOCK MAT, TYPE 1 SY		605 6" SHALLOW PIPE UNDERDRAINS FT			611 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS FT		611 PRECAST REINFORCED CONCRETE OUTLET EACH				FOR INFORMATION ONLY 6" ENDCAP	6" X 6" TEE	6" X 90° BEND	6" X 945 BEND	NOTES
UD-201	138	EX HUNT RD	798+22.02	797+70.41	RT	D-232					37			10						1				**
UD-202	138 - 139, 146	EX HUNT RD	800+99.26	797+70.41	RT	D-231					271			10						1				**
UD-203	138 - 139, 146	EX HUNT RD	800+74.52	799+00.00	LT				1.78		172			16		1				1		1	1	**
UD-204	139 & 146	KROGER ENTRANCE	6+19.08	5+59.04	LT	D-226					69			10						1				**
UD-205	139 & 146	KROGER ENTRANCE	6+51.73	6+19.08	LT	D-223					21			10						1				**
UD-206	139 & 146	KROGER ENTRANCE	5+29.78	5+86.67	RT	D-221					27			10						1				**
UD-207	139 & 146	KROGER ENTRANCE	6+15.14	5+86.67	RT	D-221					12			5						1				**
UD-208	139 & 146	REF LINE HK-CC	90+70.00	92+10.00	RT	D-225					122			10						1	1			**
UD-209	139 & 146	REF LINE HK-CC	90+70.00	92+10.00	RT	D-225					110									1				**
UD-210	139 & 146	EX HUNT RD	803+50.00	800+99.26	RT	D-225					251			10						1				**
UD-211	139 & 146	EX HUNT RD	802+95.00	802+18.84	LT	D-220					60			10						1				**
UD-212	139	EX HUNT RD	804+46.89	802+95.00	LT	D-218					151			10						1				**
UD-213	139	EX HUNT RD	805+45.00	803+50.00	RT	D-215					182			10						1				**
UD-214	139	EX HUNT RD	804+96.78	805+45.00	LT	D-212					41			10						1				**
UD-215	140	EX HUNT RD	807+48.19	805+45.00	LT	D-212					185			10						1				
UD-216	140	EX HUNT RD	807+48.19	805+45.00	RT	D-213					185			10						1				
UD-217	140	EX HUNT RD	501+13.44	807+48.19	LT	D-208					117			10						1				
UD-218	140	EX HUNT RD	501+13.44	807+48.19	RT	D-209					130			10						1				
UD-219	140	HUNT RD	501+13.92	502+85.00	LT	D-204					157			10						1				
UD-220	140	HUNT RD	501+13.92	502+85.00	RT	D-203					161			10						1				
UD-221	140 - 141	HUNT RD	502+85.00	503+74.76	LT	D-202					81			10						1				
UD-222	140 - 141	HUNT RD	502+85.00	503+74.32	RT	D-201					69			10						1				
UD-223	141	HUNT RD	504+49.83	503+74.76	LT	D-202					68			10						1				
UD-224	141	HUNT RD	504+70.09	503+74.32	RT	D-201					80			10						1				
UD-225	132 & 141	HUNT RD	504+50.32	505+94.59	LT	D-153					142			10						1				
UD-226	132 & 141	HUNT RD	504+70.59	505+02.17	RT	D-200					19			10						1				
UD-227	132 & 141	HUNT RD	505+17.89	505+02.17	RT	D-200					14									1				
UD-228	132 & 141	REF LINE PH-BI-2	7+00.50	5+92.06	LT	D-121					94			10						1				
UD-229	132 & 141	REF LINE PH-CC	93+40.65	91+20.55	RT	D-120					148			28						1	1			
UD-230	132 & 141	REF LINE PH-CC	93+40.65	91+20.55	RT	D-120					176									1				
UD-231	132 & 141	EX HUNT RD	813+86.37	816+10.72	RT	D-108					220			10						1				
UD-232	132 & 141	EX HUNT RD	1+03.78	2+37.94	RT	D-106					120			10						1				
UD-233	132 & 141	EX HUNT RD	814+96.76	815+95.94	LT	D-107					93			10						1				
UD-234	142	EX HUNT RD	816+10.72	815+42.65	RT	D-111					216			10						1				
UD-235	142	EX HUNT RD	815+95.94	818+43.14	LT	D-112					233			10						1				
**100% LOCAL FUNDING SPLIT SUBTOTALS FROM THIS SHEET									1.78		1526			131		1								
**100% LOCAL FUNDING SPLIT SUBTOTALS FROM SHEET 122									0		0			0		0								
**100% LOCAL FUNDING SPLIT CARRIED TO GENERAL SUMMARY									1.78		1526			131		1								
SUBTOTALS FROM THIS SHEET									1.78		4234			339		1								
SUBTOTALS FROM SHEET 122									0		6422			444		0								
TOTALS CARRIED TO GENERAL SUMMARY									1.78		10656			783		1								

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UNDERDRAIN SUBSUMMARY

HAM-PLAINFIELD RD ROUNDABOUTS

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REFERENCE NO.	SHEET NO.	ALIGNMENT	STATION FROM	STATION TO	SIDE						611 MANHOLE ADJUSTED TO GRADE EACH	611 SPECIAL – GAS VALVE BOX ADJUSTED TO GRADE EACH			638 VALVE BOX EACH	638 6" GATE VALVE AND VALVE BOX EACH	638 6" FIRE HYDRANT EACH	638 FIRE HYDRANT REMOVED EACH	638 VALVE BOX ADJUSTED TO GRADE EACH	638 SERVICE BOX ADJUSTED TO GRADE EACH		NOTES
			GAS LINE																			
G-1	131	PLAINFIELD RD	711+83.24		RT							1										
G-2	132	PLAINFIELD RD	714+08.04		LT							1										
G-3	132	PLAINFIELD RD	714+30.05		LT							1										
G-4	132	PLAINFIELD RD	714+32.57		LT							1										
G-5	132	PLAINFIELD RD	714+47.47		RT							1										
G-6	132	PLAINFIELD RD	715+16.59		LT							1										
G-7	132	PLAINFIELD RD	715+43.60		LT							1										
G-8	133	PLAINFIELD RD	717+57.29		LT							1										
G-9	133	PLAINFIELD RD	721+12.47		LT							1										
G-10	133	PLAINFIELD RD	721+19.27		LT							1										
G-11	133	PLAINFIELD RD	721+30.47		LT							1										
G-12	133	PLAINFIELD RD	721+36.04		RT							1										
G-13	139	EX HUNT RD	805+33.04		RT							1										
G-14	140	EX HUNT RD	805+50.01		RT							1										
G-15	140	EX HUNT RD	805+94.45		LT							1										
G-16	140	EX HUNT RD	807+15.05		LT							1										
G-17	143	PEPPERMILL LN	951+09.31		RT							1										
			SANITARY SEWER																			
S-1	131	PLAINFIELD RD	707+44.73		RT						1											
S-2	132	PLAINFIELD RD	714+81.09		RT						1											
S-3	133	PLAINFIELD RD	718+84.54		RT						1											
S-4	133	PLAINFIELD RD	720+71.66		LT						1											
S-5	133	PLAINFIELD RD	722+64.96		RT						1											
S-6	134	PLAINFIELD RD	723+48.56		RT						1											
S-7	134	PLAINFIELD RD	727+56.69		RT						1											
S-8	135	PLAINFIELD RD	729+49.60		RT						1											
S-9	142	EX HUNT RD	817+20.88		LT						1											
S-10	143	PEPPERMILL LN	951+74.47		LT						1											
			WATER WORK																			
W-1	131	PLAINFIELD RD	707+67.44		LT														1			
W-2	131	PLAINFIELD RD	711+80.21		RT															1		
W-3	132	PLAINFIELD RD	712+43.34		RT														1			
W-4	132	PLAINFIELD RD	712+98.64		RT														1			
W-5	132	PLAINFIELD RD	714+32.29		RT															1		
W-6	132	PLAINFIELD RD	714+80.05		RT														3			
W-7	132	PLAINFIELD RD	715+31.78		RT															1		
W-8	132	PLAINFIELD RD	716+83.47		RT										1							
W-9	132	PLAINFIELD RD	717+14.15		RT											1	1	1	1			
W-10	133	PLAINFIELD RD	719+10.97		RT														1			
W-11	133	PLAINFIELD RD	720+82.17		RT											1	1	1	1			
W-12	133	PLAINFIELD RD	721+52.52		RT														1			
W-13	134	PLAINFIELD RD	724+69.80		RT															1		
W-14	134	PLAINFIELD RD	724+89.54		RT															1		
W-15	135 & 144	REED HARTMAN HWY	729+80.05		RT										1							
*100% LOCAL FUNDING SPLIT CARRIED TO SHEET 125											0	0			0	0	0	0	0	0		
SUBTOTALS CARRIED TO SHEET 125											10	17			2	2	2	2	10	5		

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UTILITIES SUBSUMMARY

HAM-PLAINFIELD RD ROUNDABOUTS

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REFERENCE NO.	SHEET NO.	ALIGNMENT	STATION FROM	STATION TO	SIDE						611 MANHOLE ADJUSTED TO GRADE	611 SPECIAL – GAS VALVE BOX ADJUSTED TO GRADE			638 VALVE BOX	638 6" GATE VALVE AND VALVE BOX	638 6" FIRE HYDRANT	638 FIRE HYDRANT REMOVED	638 VALVE BOX ADJUSTED TO GRADE	638 SERVICE BOX ADJUSTED TO GRADE		NOTES
											EACH	EACH			EACH	EACH	EACH	EACH	EACH	EACH		
			WATER WORK (CONTINUED)																			
W-16	135 & 144	REED HARTMAN HWY	729+98.72		RT														1			
W-17	135 & 144	REED HARTMAN HWY	730+46.33		RT											1	1	1				
W-18	136	SR 126 ENTRANCE RAMP	601+26.48		RT														1			
W-19	136	SR 126 ENTRANCE RAMP	601+42.01		RT														1			
W-20	136	SR 126 ENTRANCE RAMP	601+92.61		RT														1			
W-21	139	EX HUNT RD	800+99.08		LT														1			**
W-22	139	EX HUNT RD	801+12.72		LT													1				**
W-23	140	EX HUNT RD	807+30.31		LT														1			
W-24	141	EX HUNT RD	808+54.27		LT											1	1	1				
W-25	142	EX HUNT RD	815+65.32		LT														1			
W-26	142	EX HUNT RD	816+62.21		LT														1			
W-27	142	EX HUNT RD	816+61.97		LT											1	1	1				
W-28	143	PEPPERMILL LN	950+79.07		LT															1		
W-29	143	PEPPERMILL LN	951+42.70		LT										1							
**100% LOCAL FUNDING SPLIT SUBTOTALS FROM THIS SHEET											0	0			0	0	0	1	1	0		
**100% LOCAL FUNDING SPLIT SUBTOTALS FROM SHEET 124											0	0			0	0	0	0	0	0		
**100% LOCAL FUNDING SPLIT CARRIED TO GENERAL SUMMARY											0	0			0	0	0	1	1	0		
SUBTOTALS FROM THIS SHEET											0	0			1	3	3	4	8	1		
SUBTOTALS FROM SHEET 124											10	17			2	2	2	2	10	5		
TOTALS CARRIED TO GENERAL SUMMARY											10	17			3	5	5	6	18	6		

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UTILITIES SUBSUMMARY

HAM-PLAINFIELD RD ROUNDABOUTS

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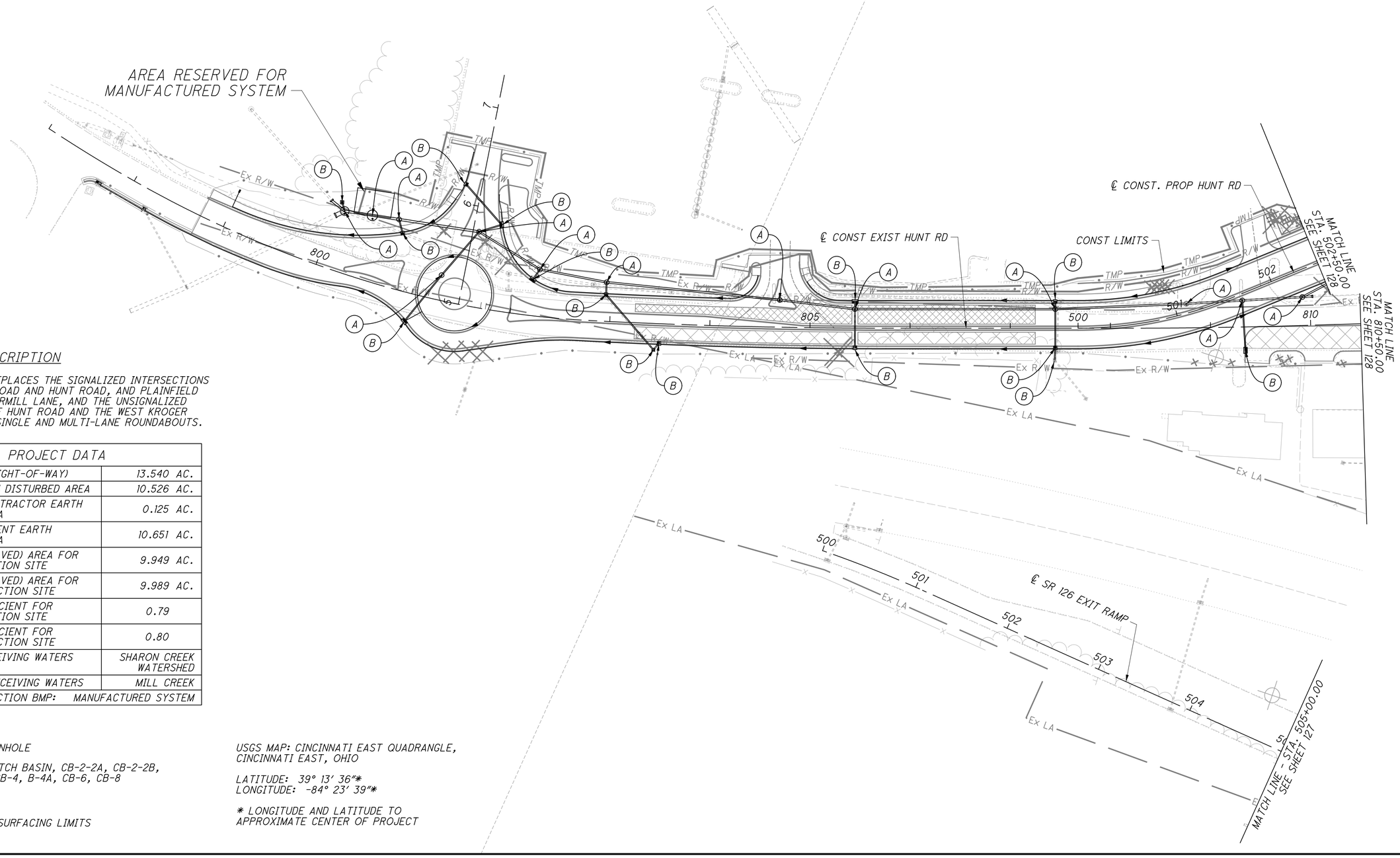
BMP SUMMARY								
BMP TYPE	LOCATION					BMP WIDTH	CONTRIBUTING DRAINAGE AREA	EDA TREATMENT CREDIT
	ALIGNMENT	BEGIN		END				
		STATION	OFFSET	STATION	OFFSET	(FEET)	(ACRES)	(ACRES)
MANUFACTURED SYSTEM	EX HUNT RD	800+41.05	58.40' LT			N/A	4.44	2.99
						TREATMENT PROVIDED:		2.99
						TREATMENT REQUIRED*		2.85

*CALCULATED PER L&D VOL. 2, SEC 1115.7



PROJECT DESCRIPTION

THIS PROJECT REPLACES THE SIGNALIZED INTERSECTIONS OF PLAINFIELD ROAD AND HUNT ROAD, AND PLAINFIELD ROAD AND PEPPERMILL LANE, AND THE UNSIGNALIZED INTERSECTION OF HUNT ROAD AND THE WEST KROGER ENTRANCE WITH SINGLE AND MULTI-LANE ROUNDABOUTS.

PROJECT DATA	
TOTAL AREA (RIGHT-OF-WAY)	13.540 AC.
PROJECT EARTH DISTURBED AREA	10.526 AC.
ESTIMATED CONTRACTOR EARTH DISTURBED AREA	0.125 AC.
NOTICE OF INTENT EARTH DISTURBED AREA	10.651 AC.
IMPERVIOUS (PAVED) AREA FOR PRE-CONSTRUCTION SITE	9.949 AC.
IMPERVIOUS (PAVED) AREA FOR POST-CONSTRUCTION SITE	9.989 AC.
RUNOFF COEFFICIENT FOR PRE-CONSTRUCTION SITE	0.79
RUNOFF COEFFICIENT FOR POST-CONSTRUCTION SITE	0.80
IMMEDIATE RECEIVING WATERS	SHARON CREEK WATERSHED
SUBSEQUENT RECEIVING WATERS	MILL CREEK
POST CONSTRUCTION BMP:	MANUFACTURED SYSTEM

LEGEND

(A) PROP. MANHOLE

(B) PROP. CATCH BASIN, CB-2-2A, CB-2-2B, CB-2-3, CB-4, B-4A, CB-6, CB-8

PROP. RESURFACING LIMITS

USGS MAP: CINCINNATI EAST QUADRANGLE, CINCINNATI EAST, OHIO

LATITUDE: 39° 13' 36"*
LONGITUDE: -84° 23' 39"*

* LONGITUDE AND LATITUDE TO APPROXIMATE CENTER OF PROJECT

N

HORIZONTAL SCALE IN FEET
0 25 50 100

CALCULATED LZS
CHECKED JS

PROJECT SITE PLAN - HUNT RD
STA. 797+00.00 TO STA. 810+50.00

HAM-PLAINFIELD RD ROUNDABOUTS

126
335

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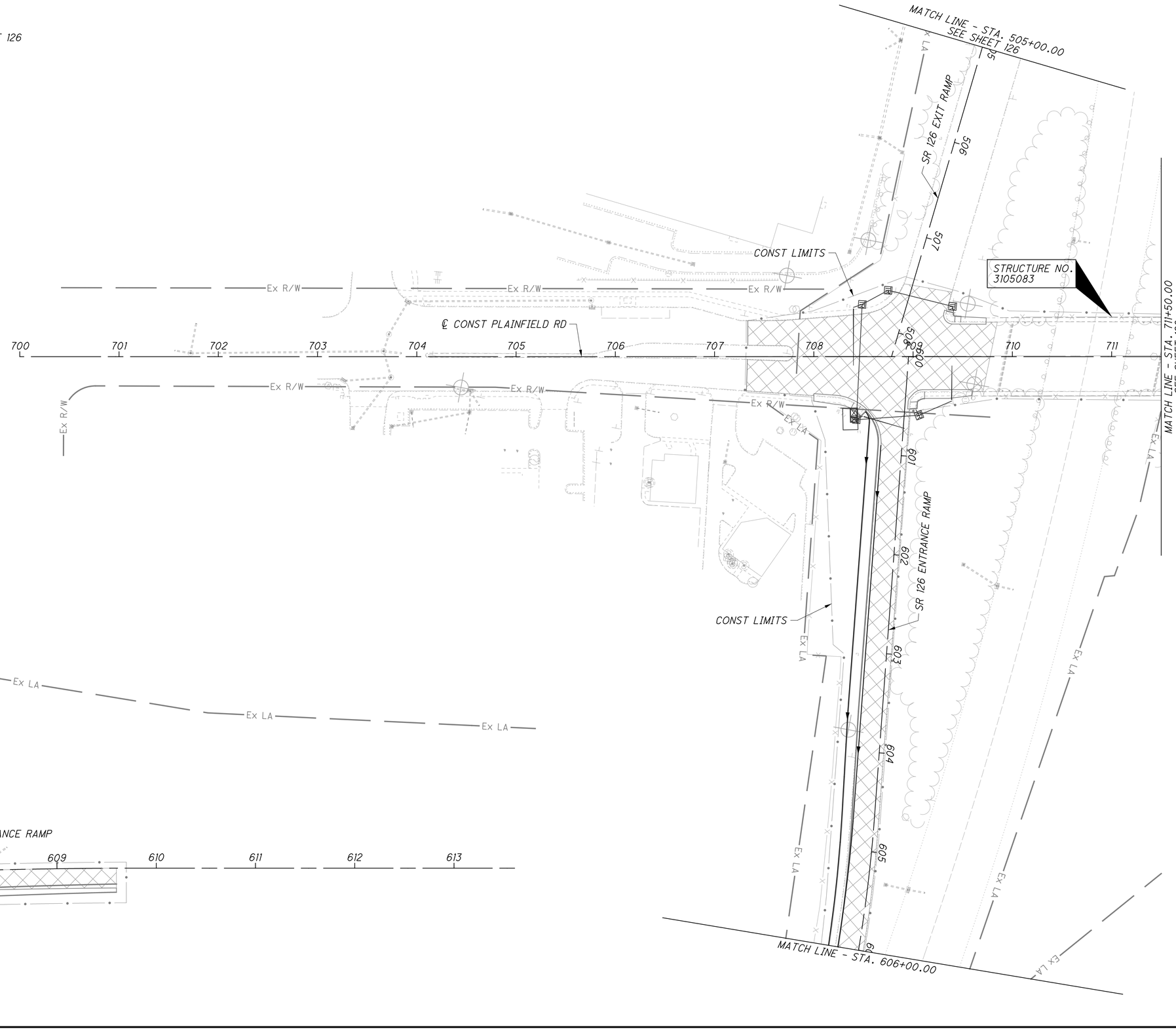
FOR LEGEND AND BMP INFORMATION SEE SHEET 126



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HORIZONTAL SCALE IN FEET
0 25 50 100

CALCULATED LZS
CHECKED JS

PROJECT SITE PLAN - PLAINFIELD RD
STA. 700+00.00 TO STA. 711+50.00

HAM-PLAINFIELD RD
ROUNDABOUTS

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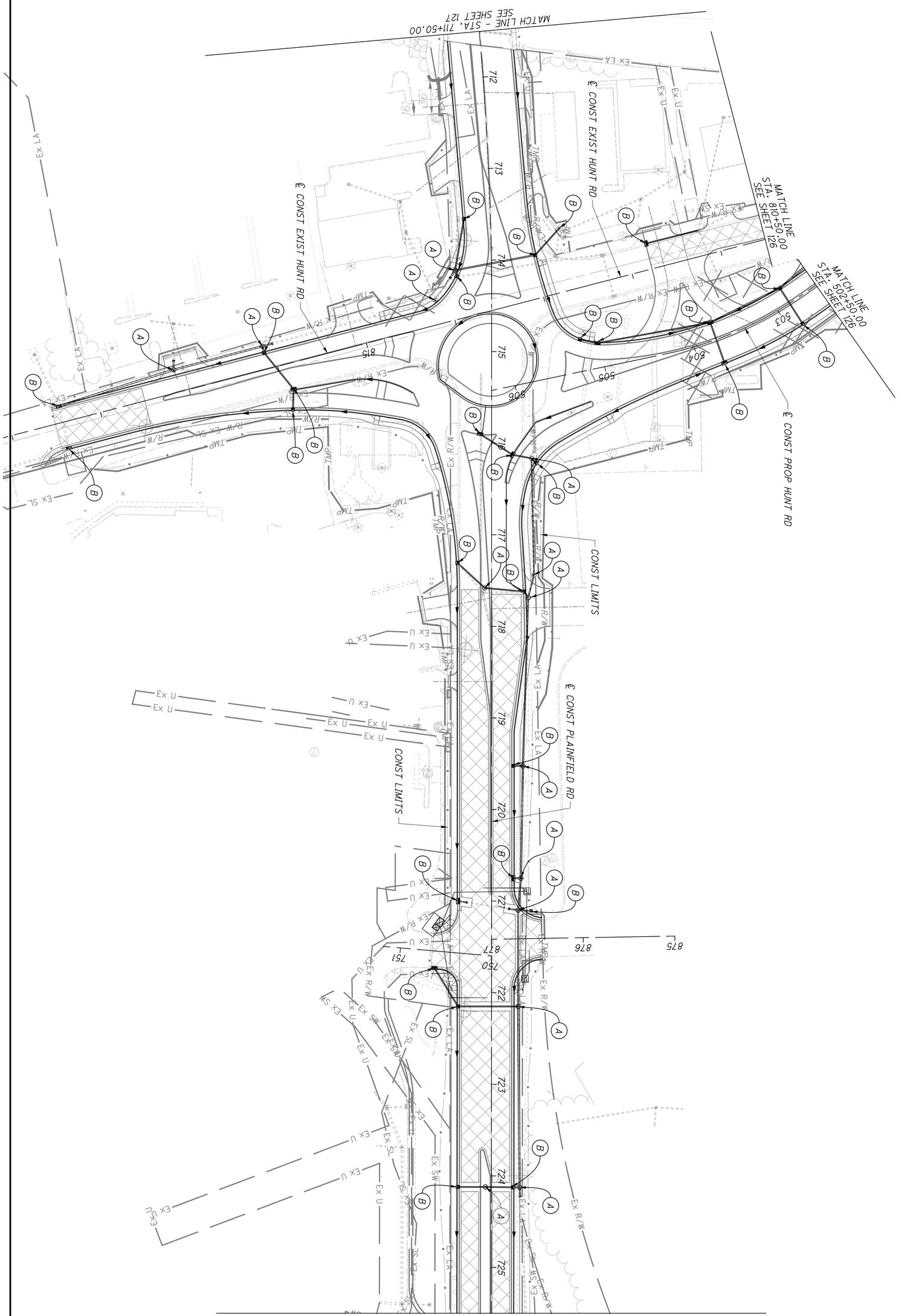

FOR LEGEND AND BMP INFORMATION SEE SHEET 126

128 / 335	HAM-PLAINFIELD RD ROUNDABOUTS	PROJECT SITE PLAN - PLAINFIELD RD STA. 711+50.00 TO STA. 725+50.00	CALCULATED LZS / CHECKED JS	0 50 25 100 HORIZONTAL SCALE IN FEET

FOR LEGEND AND BMP INFORMATION SEE SHEET 126

MATCH LINE - STA. 725+50.00
SEE SHEET 128

℄ CONST PLAINFIELD RD

CONST LIMITS

℄ CONST PEPPERMILL LN

CONST LIMITS

℄ CONST REED HARTMAN HGWY

℄ CONST PLAINFIELD RD

Ex R/W · Ex U · Ex SW · Ex SL · Ex LA · TMP · MS

726 · 727 · 728 · 729 · 730 · 731 · 732 · 733 · 734 · 735 · 736

900 · 901 · 902 · 903 · 950 · 951 · 952 · 953 · 954

HORIZONTAL SCALE IN FEET
0 · 25 · 50 · 100

CALCULATED LZS
CHECKED JS

PROJECT SITE PLAN - PLAINFIELD RD
STA. 725+50.00 TO STA. 736+00.00

HAM-PLAINFIELD RD ROUNDABOUTS

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JPMORGAN CHASE BANK, N.A.
O.R. 12088, PG. 1705
9019 PLAINFIELD RD.

TARGET CORPORATION
9099 PLAINFIELD RD.

PVT SIGN "TARGET"

ASPH

CONC WALK

BUS SHELTER CANOPY

℄ PLAINFIELD RD

N 10° 34' 28" W

B-001-0-17

CONC

PVT SIGN "BIG BOY"

MATCH LINE - STA 706+50.00
SEE SHEET 131

MICHELMAN, INC.
O.R. 5435, PG. 1353
PLAINFIELD RD.

MAP CROSSGATE, LLC
O.R. 11482, PG. 1237
9050 PLAINFIELD RD.

NATIONAL RETAIL PROPERTIES, LP
O.R. 12987, PG. 1686
9070 PLAINFIELD RD.

JOHN WILLIAM ROSE AND
JAMES ALEXANDER ROSE
O.R. 11990, PG. 1093
9100 PLAINFIELD RD.

STA 704+44.40, 13.11' RT
EX. CB, GRATE ELEV 860.62
EX 12" VCP N 848.58
EX 12" VCP S 848.55
EX 8" VCP W 849.55

EXISTING GROUND

EX GAS SERVICE

EX. 6" WATER

EX TRAFFIC

EX 12" BRICK

875 870 865 860 855 850 845

701+00 702+00 703+00 704+00 705+00 706+00

858.09 858.70 859.25 859.96 860.90 861.46 862.01 862.61 863.16 863.71 864.18 864.63 865.02 865.33

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CML
CHECKED JS

PLAN AND PROFILE - PLAINFIELD RD
STA. 701+00.00 TO STA. 706+50.00

HAM-PLAINFIELD RD ROUNDABOUTS

130
335

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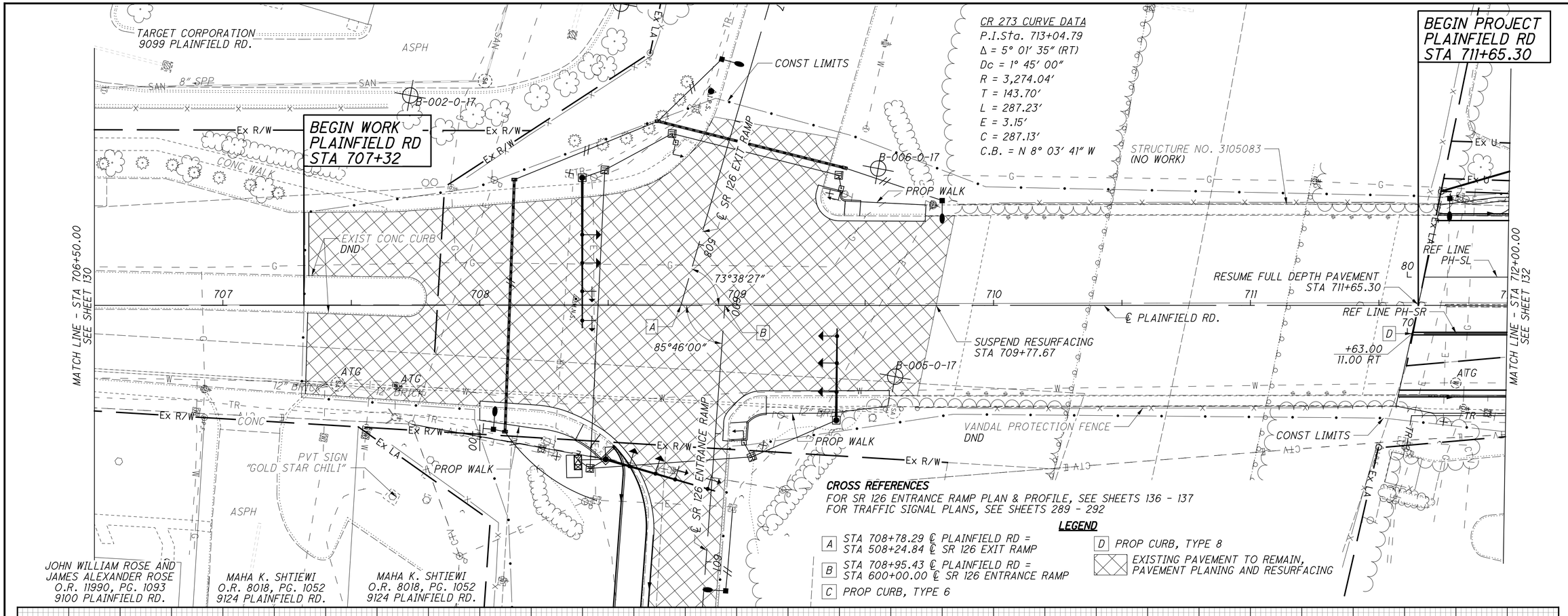
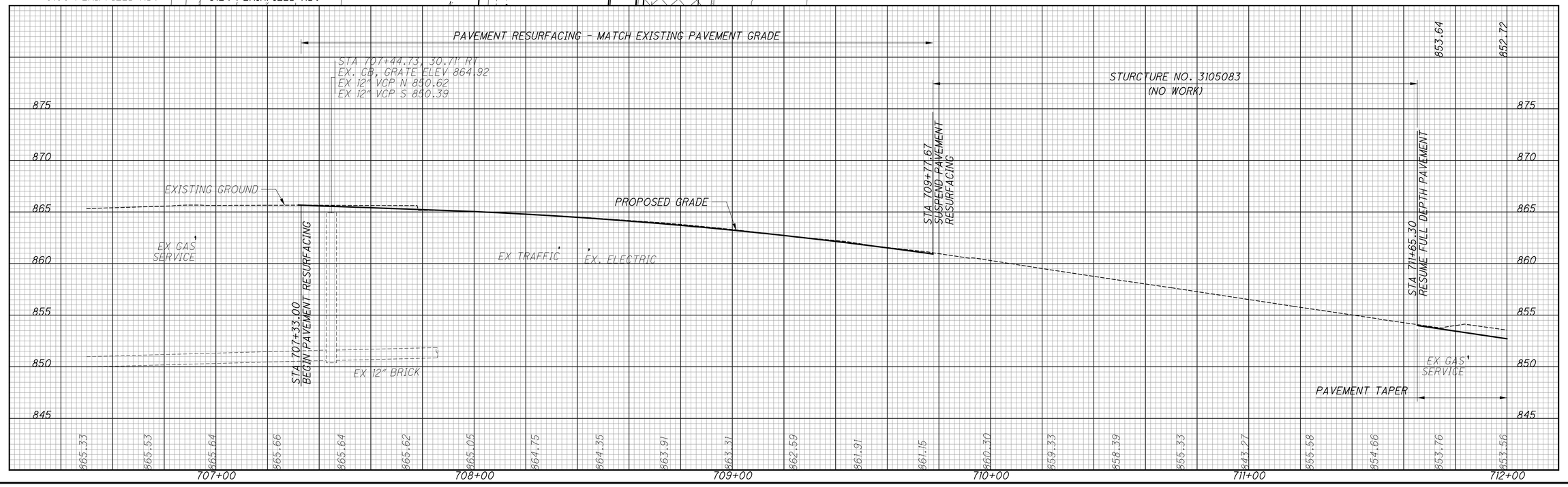


CROSS REFERENCES

FOR SR 126 ENTRANCE RAMP PLAN & PROFILE, SEE SHEETS 136 - 137
FOR TRAFFIC SIGNAL PLANS, SEE SHEETS 289 - 292

LEGEND

- A STA 708+78.29 ℄ PLAINFIELD RD = STA 508+24.84 ℄ SR 126 EXIT RAMP
- B STA 708+95.43 ℄ PLAINFIELD RD = STA 600+00.00 ℄ SR 126 ENTRANCE RAMP
- C PROP CURB, TYPE 6
- D PROP CURB, TYPE 8
- EXISTING PAVEMENT TO REMAIN, PAVEMENT PLANING AND RESURFACING



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HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CML
CHECKED JS

PLAN AND PROFILE - PLAINFIELD RD STA. 706+50.00 TO STA. 712+00.00

HAM-PLAINFIELD RD ROUNDABOUTS

CR 273 CURVE DATA
P.I.Sta. 713+04.79
Δ = 5° 01′ 35″ (RT)
Dc = 1° 45′ 00″
R = 3,274.04′
T = 143.70′
L = 287.23′
E = 3.15′
C = 287.13′
C.B. = N 8° 03′ 41″ W

GOC REALCO LLC
O.R. 12973, PG. 1288
9188 PLAINFIELD RD.

SPEEDWAY SUPERAMERICA LLC
O.R. 7885, PG. 991
9192 PLAINFIELD RD.

BLUE ASH, OH REALTY LLC
O.R. 10469, PG. 2060
4150 HUNT RD.

BLUE HILLS CO., LLC
O.R. 12443, PG. 1263
4243 HUNT RD.

BRODOF AUTO CARE, INC.
O.R. 6629, PG. 1193
HUNT RD.

HASAN A. ISMAIL
O.R. 9026, PG. 213
9210 PLAINFIELD RD.

RMB WEST CORPORATION
O.R. 6933, PG. 1747
9237 PLAINFIELD RD.

CROSS REFERENCES
FOR HUNT RD PLAN AND PROFILE SEE SHEET 138 - 142
FOR ROUNDABOUT PROFILES, SEE SHEETS 148 - 163
FOR ROUNDABOUT DETAILS, SEE SHEETS 228 - 230
FOR ROUNDABOUT ISLAND DETAILS, SEE SHEETS 231 - 236
FOR DRIVE DETAILS, SEE SHEETS 237 - 240

LEGEND

A STA 714+55.26 ℄ PLAINFIELD RD = STA 813+58.64 ℄ EXIST HUNT RD
B STA 715+42.41 ℄ PLAINFIELD RD = STA 506+26.22 ℄ PROP HUNT RD
C PROP CURB & GUTTER, TYPE 2
D PROP CURB, TYPE 6
E PROP CURB, 3-B
F PROP CURB, TYPE 8
EXISTING STRUCTURE TO BE REMOVED

SEE REFERENCE LINE PROFILES FOR PROPOSED PAVEMENT ELEVATIONS

STA 714+08.07, 67.32′ LT
EX. CB, GRATE ELEV 845.28
EX 12″ VCP W 834.34
EX 12″ VCP NE 834.34

STA 714+81.08, 33.29′ RT
EX. CB, GRATE ELEV 842.09
EX 12″ VCP SW 817.70
EX 12″ VCP N 817.61
EX 12″ VCP E 817.57

EXISTING GROUND
PROPOSED GRADE
15″ TYPE B
EX 8″ GAS
EX 12″ WATER
EX TELCOM DUCTBANK
EX 12″ VCP
12″ TYPE B
12″ TYPE B

852.72 851.79 850.87 849.94 849.02 848.09 853.56 852.63 851.67 850.38 849.11 848.15 847.27 846.38 845.46 844.46 843.61 842.68 841.76 840.81 839.80 838.85 837.98 836.95 836.05 835.13 834.19 833.29 832.41

712+00 713+00 714+00 715+00 716+00 717+00

855 850 845 840 835 830 825

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CML CHECKED JS

PLAN AND PROFILE - PLAINFIELD RD
STA. 712+00.00 TO STA. 717+50.00

HAM-PLAINFIELD RD ROUNDABOUTS

132
335

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CROSS REFERENCES
FOR DRIVE DETAILS, SEE SHEETS 237 - 244
FOR TRAFFIC SIGNAL PLANS, SEE SHEETS 293 - 296

LEGEND
- A STA 721+41.64 PLAINFIELD RD = STA 877+00.00 GEORGETOWN RD
- B STA 721+59.84 PLAINFIELD RD = STA 750+00.00 ST ANDREWS PL
- C PROP CURB & GUTTER, TYPE 2
- D PROP CURB, TYPE 6
- EXISTING PAVEMENT TO REMAIN, PAVEMENT PLANING AND RESURFACING

MATCH LINE - STA 717+50.00 SEE SHEET 132

MATCH LINE - STA 723+00.00 SEE SHEET 134

RMB WEST CORPORATION O.R. 6933, PG. 1747 9237 PLAINFIELD RD.

CHANTILAS CINCY PROPERTIES, LLC O.R. 10623, PG. 719 9254 PLAINFIELD RD.

RGT INVESTMENTS, LLC O.R. 13190, PG. 1748 9270 PLAINFIELD RD.

RGT INVESTMENTS, LLC O.R. 13190, PG. 1748 9280 PLAINFIELD RD.

BLUE ASH, OH REALTY LLC O.R. 10469, PG. 2060 4150 HUNT RD.

WALNUT CREEK LIMITED PARTNERSHIP D.B. 4341, PG. 25 4030 PLAINFIELD RD.

ST. ANDREWS PLACE HOMEOWNERS' ASSOCIATION, INC. P.B. 72, PG. 27

℄ CONST GEORGETOWN RD

℄ CONST ST ANDREWS PL

℄ PLAINFIELD RD

PAVEMENT RESURFACING - MATCH EXISTING PAVEMENT GRADE

STA 718+84.54, 7.10' RT
EX. CB, GRATE ELEV 827.55
EX 12" VCP N 813.52
EX 8" VCP W 814.80
EX 12" VCP S 813.61

STA 720+71.66, 4.09' LT
EX. CB, GRATE ELEV 820.68
EX 12" VCP N 806.79
EX 12" VCP S 806.93

STA 722+64.96, 9.08' LT
EX. CB, GRATE ELEV 813.41
EX 12" VCP N 800.55
EX 12" VCP S 800.68

P.V.I. STA 726+47.64
ELEV = 799.15'
720.00' VC
K = 123

STA 717+60.00 RT, STA 717+65.00 LT
SUSPEND FULL DEPTH PAVEMENT
RESUME PAVEMENT RESURFACING

EXISTING GROUND

PROPOSED GRADE

EX GAS SERVICE

EX 8" WATER

EX 12" VCP

12" TYPE B

832.41 831.49 830.78 829.79 828.84 827.95 827.06 826.12 825.20 824.28 823.32 822.35 821.42 820.49 819.51 818.48 817.71 816.65 815.89 815.00 813.93 813.15 812.21

718+00 719+00 720+00 721+00 722+00 723+00

835 830 825 820 815 810 805

HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED CML CHECKED JS

PLAN AND PROFILE - PLAINFIELD RD STA. 717+50.00 TO STA. 723+00.00

HAM-PLAINFIELD RD ROUNDABOUTS

133 / 335

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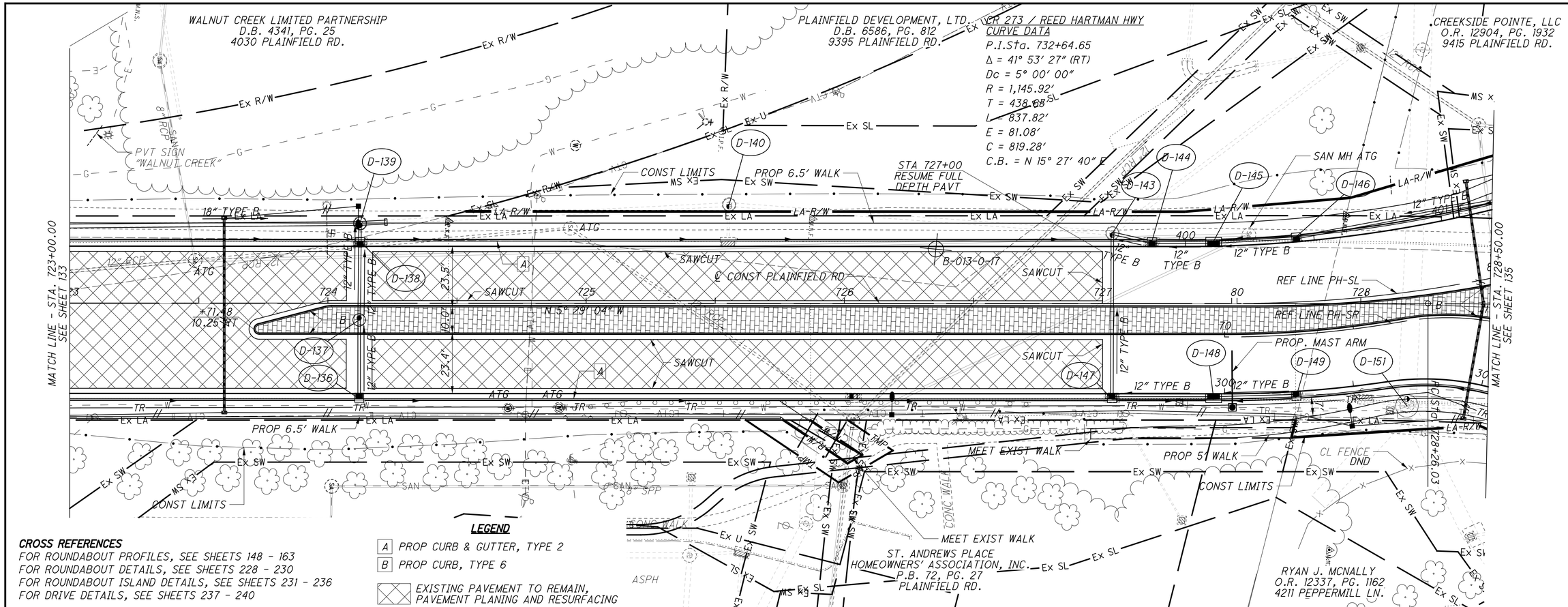
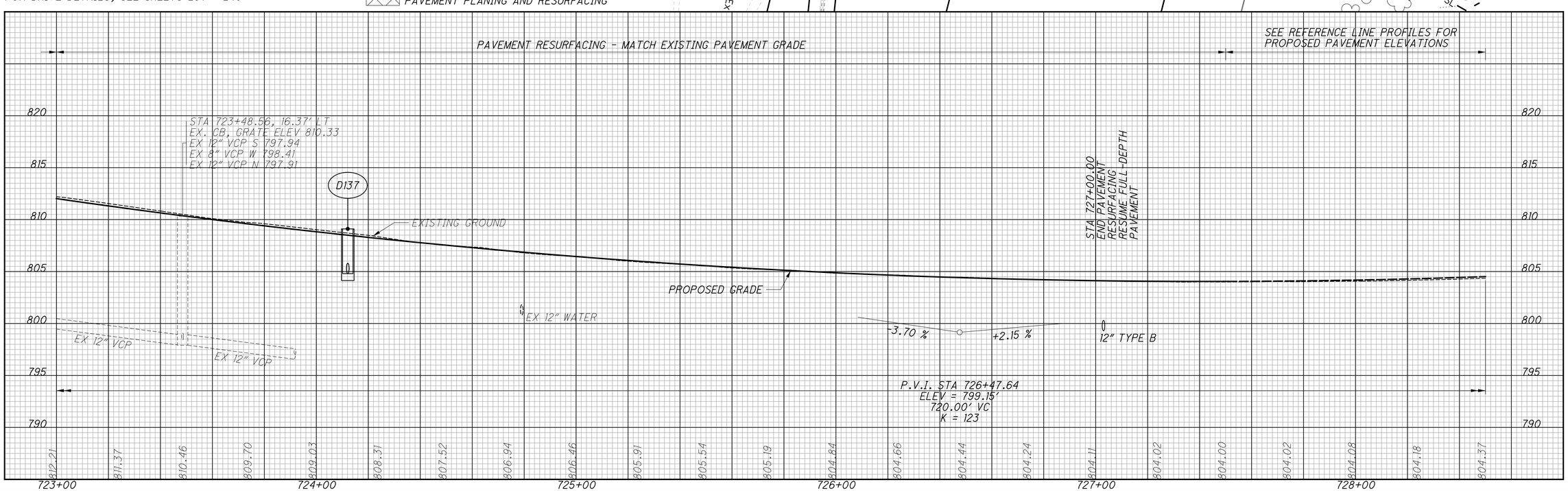


CROSS REFERENCES
FOR ROUNDABOUT PROFILES, SEE SHEETS 148 - 163
FOR ROUNDABOUT DETAILS, SEE SHEETS 228 - 230
FOR ROUNDABOUT ISLAND DETAILS, SEE SHEETS 231 - 236
FOR DRIVE DETAILS, SEE SHEETS 237 - 240

LEGEND

- A PROP CURB & GUTTER, TYPE 2
- B PROP CURB, TYPE 6
- EXISTING PAVEMENT TO REMAIN, PAVEMENT PLANING AND RESURFACING



HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CML
CHECKED JS

PLAN AND PROFILE - PLAINFIELD RD
STA. 723+00.00 TO STA. 728+50.00

HAM-PLAINFIELD RD
ROUNDABOUTS

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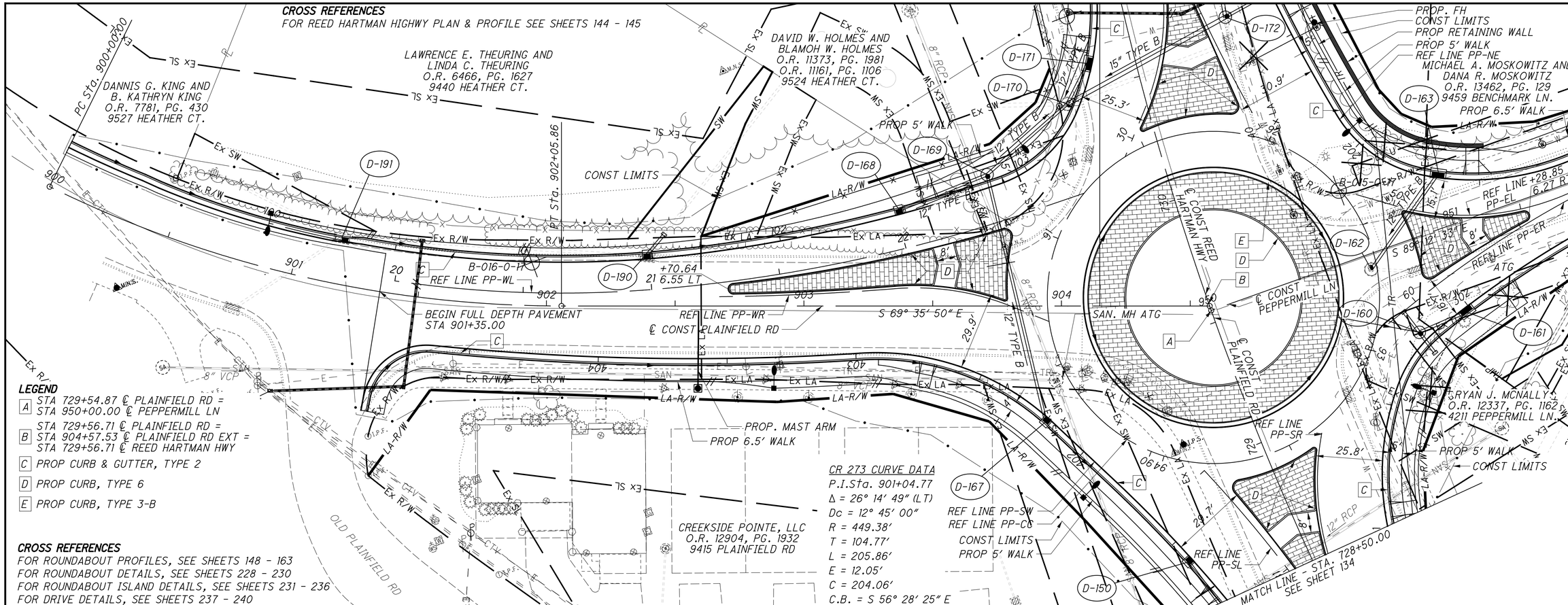

HORIZONTAL SCALE IN FEET

CALCULATED CML

CHECKED JS

PLAN AND PROFILE - PLAINFIELD RD
STA. 900+00.00 TO STA. 904+57.53

HAM-PLAINFIELD RD ROUNDABOUTS

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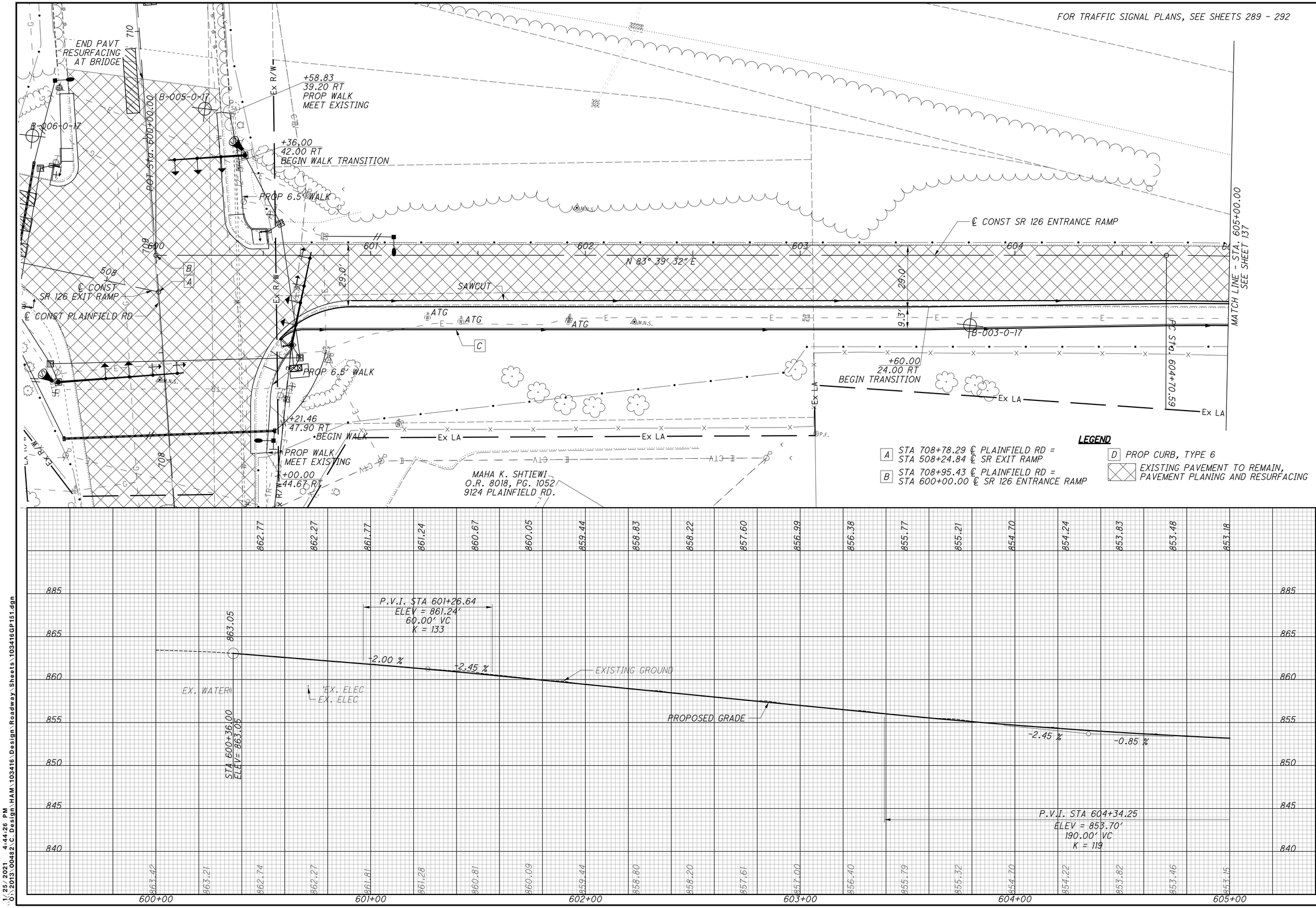

HORIZONTAL SCALE IN FEET

CALCULATED CML
CHECKED JS

PLAN AND PROFILE - SR 126 ENTRANCE RAMP
PLAINFIED RD TO STA. 605+00.00

HAM-PLAINFIELD RD ROUNDABOUTS

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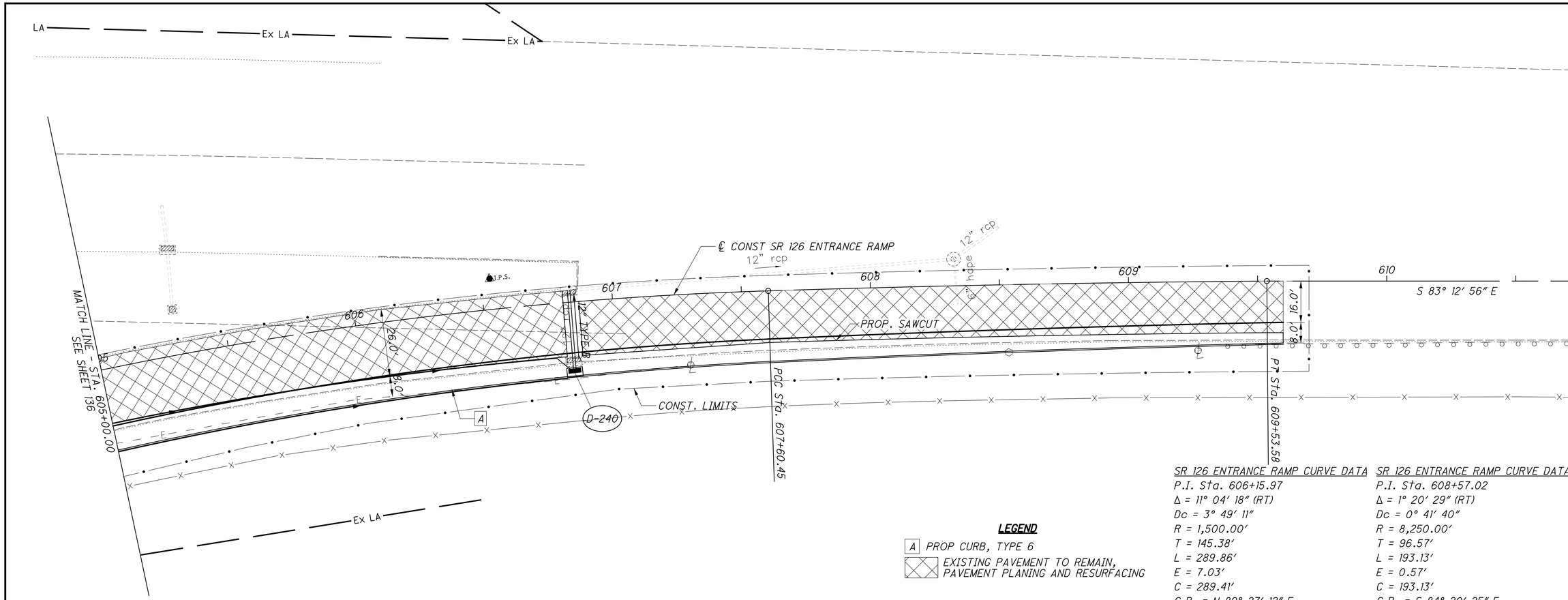


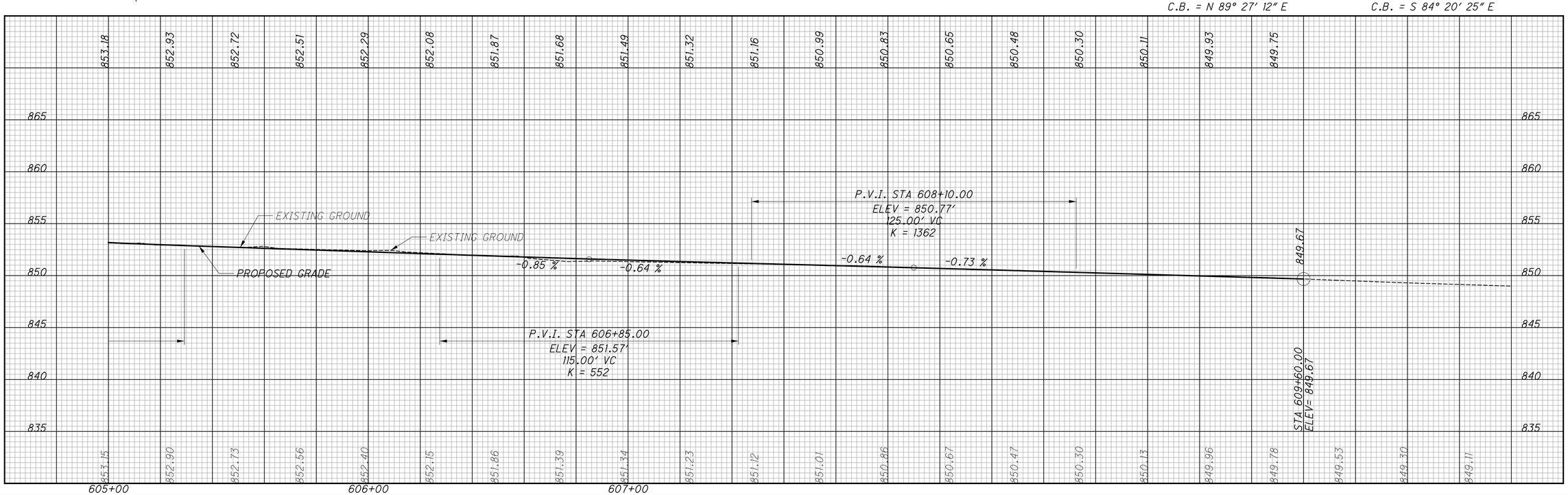
LEGEND

A PROP CURB, TYPE 6

EXISTING PAVEMENT TO REMAIN, PAVEMENT PLANING AND RESURFACING

SR 126 ENTRANCE RAMP CURVE DATA
P.I. Sta. 606+15.97
Δ = 11° 04' 18" (RT)
Dc = 3° 49' 11"
R = 1,500.00'
T = 145.38'
L = 289.86'
E = 7.03'
C = 289.41'
C.B. = N 89° 27' 12" E

SR 126 ENTRANCE RAMP CURVE DATA
P.I. Sta. 608+57.02
Δ = 1° 20' 29" (RT)
Dc = 0° 41' 40"
R = 8,250.00'
T = 96.57'
L = 193.13'
E = 0.57'
C = 193.13'
C.B. = S 84° 20' 25" E



HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CML
CHECKED JS

PLAN AND PROFILE - SR 126 ENTRANCE RAMP
STA. 605+00.00 TO STA. 610+50.00

HAM-PLAINFIELD RD
ROUNDABOUTS

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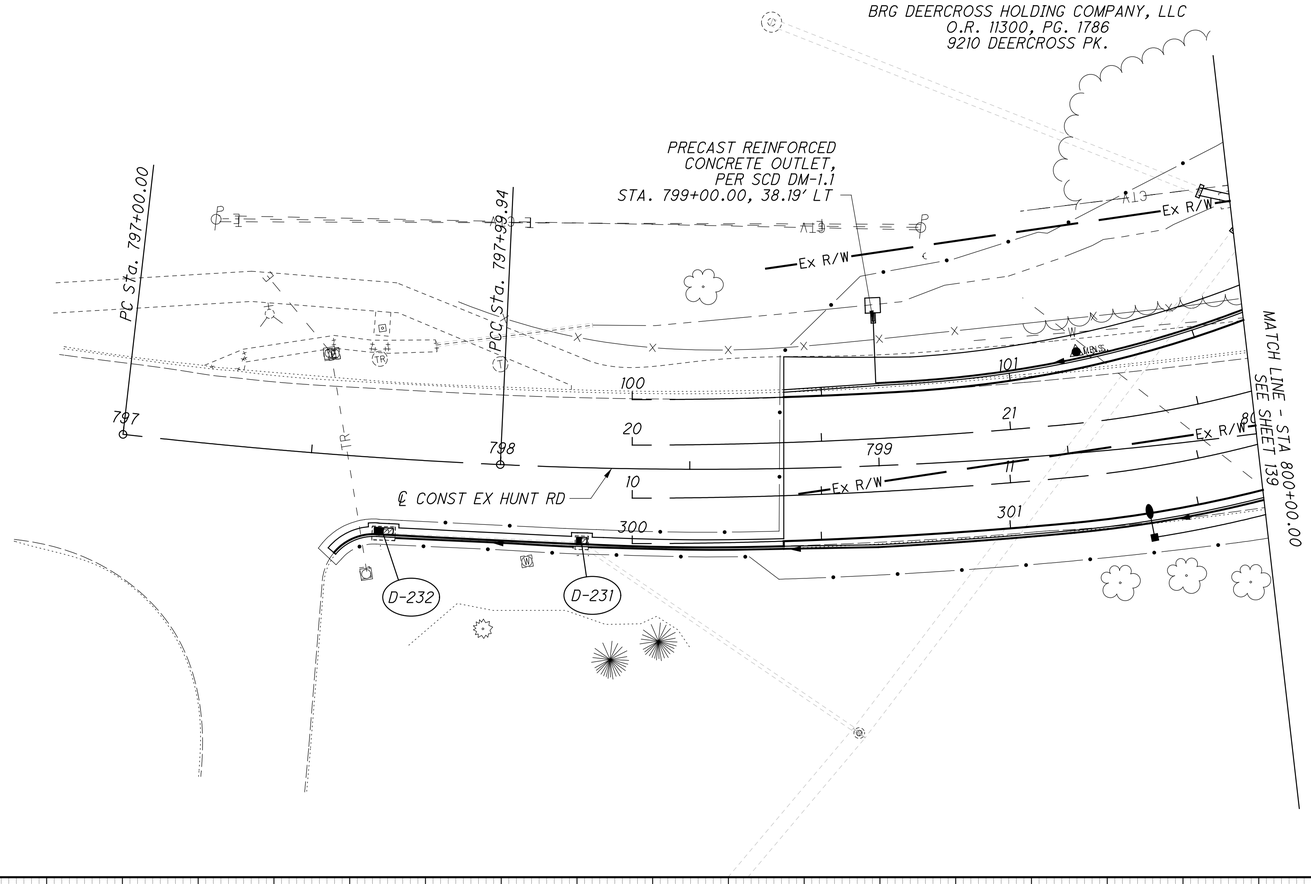
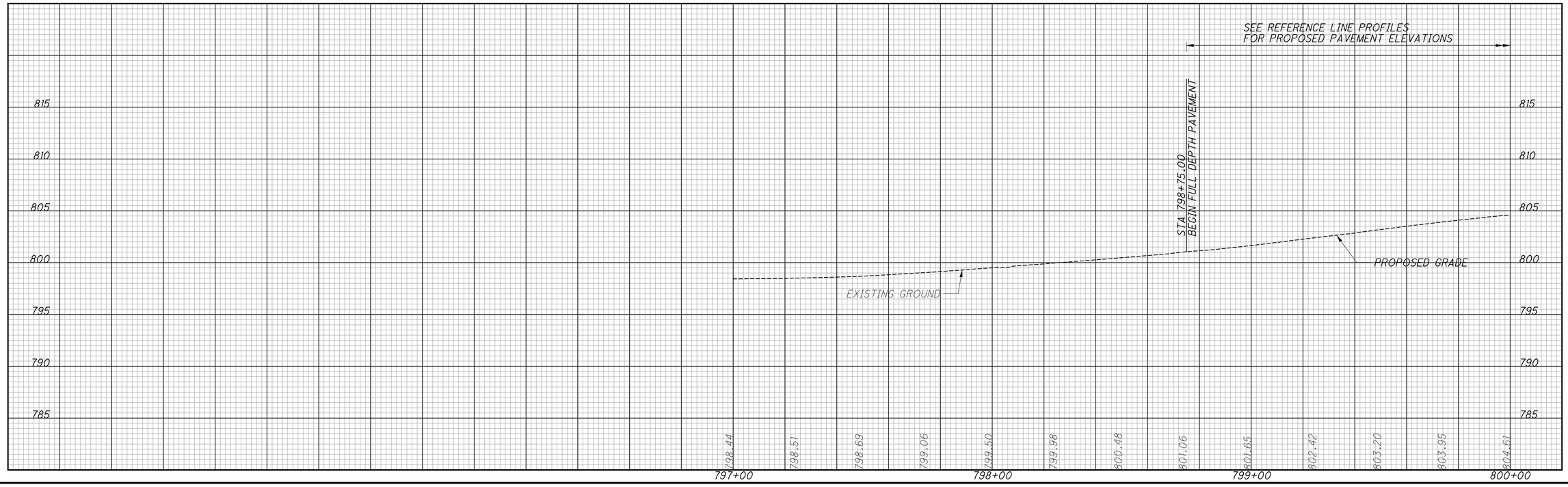
CROSS REFERENCES
FOR ROUNDABOUT PROFILES, SEE SHEETS 148 - 163
FOR ROUNDABOUT DETAILS, SEE SHEETS 228 - 230
FOR ROUNDABOUT ISLAND DETAILS, SEE SHEETS 231 - 236
FOR DRIVE DETAILS, SEE SHEETS 237 - 240



EXIST HUNT RD CURVE DATA
P.I.Sta. 797+49.99
Δ = 3° 49′ 02″ (LT)
Dc = 3° 49′ 11″
R = 1,500.00′
T = 49.99′
L = 99.94′
E = 0.83′
C = 99.92′
C.B. = S 76° 50′ 43″ E

EXIST HUNT RD CURVE DATA
P.I.Sta. 799+32.52
Δ = 13° 12′ 00″ (LT)
Dc = 5° 00′ 00″
R = 1,145.91′
T = 132.59′
L = 264.00′
E = 7.65′
C = 263.42′
C.B. = S 85° 21′ 14″ E



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CALCULATED CML
CHECKED JS

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - HUNT RD
STA. 797+00.00 TO STA. 800+00.00

HAM-PLAINFIELD RD ROUNDABOUTS

AREA RESERVED FOR BMP MANUFACTURED SYSTEM

CONST LIMITS

REF LINE HK-NR
REF LINE HK-NW
REF LINE HK-WL

℄ KROGER ENTRANCE

BLUE ASH PLAZA ASSOCIATES
OR 11907, PG 1657
KM BLUE ASH DEVELOPMENT COMPANY
OR 11907, PG 1653
4140 HUNT RD.

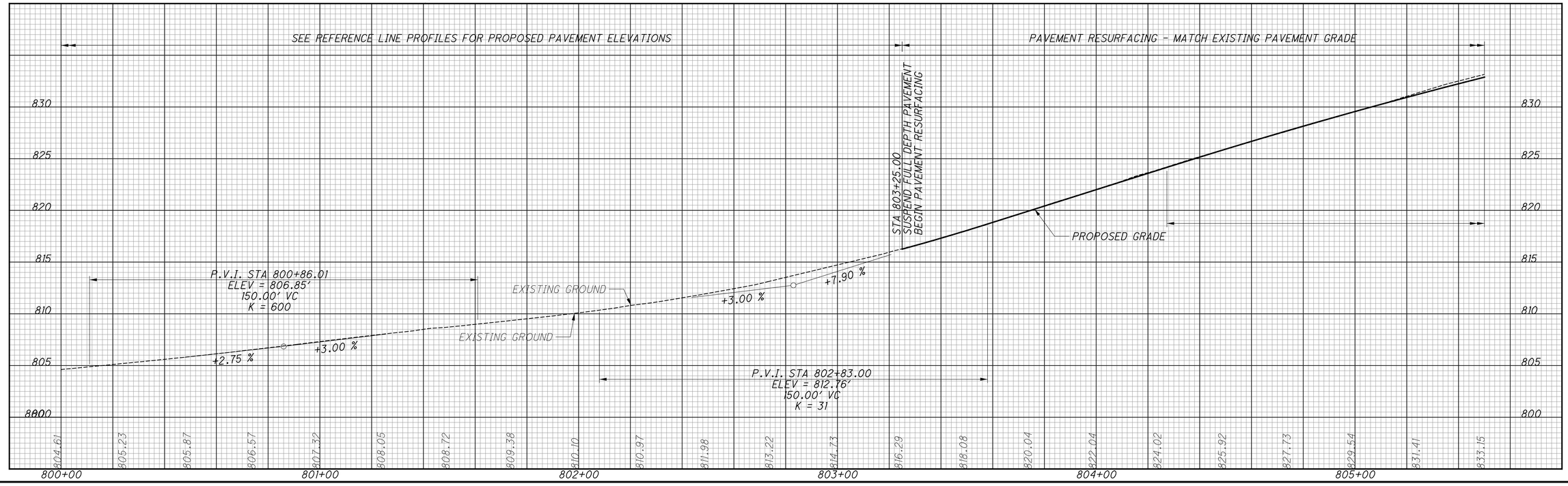
CROSS REFERENCES
FOR KROGER ENTRANCE PLAN AND PROFILE, SEE SHEET 146
FOR ROUNDABOUT PROFILES, SEE SHEETS 148 - 163
FOR ROUNDABOUT DETAILS, SEE SHEETS 228 - 230
FOR ROUNDABOUT ISLAND DETAILS, SEE SHEETS 231 - 236
FOR DRIVE DETAILS, SEE SHEETS 237 - 240

EXIST HUNT RD CURVE DATA
P.I.Sta. 801+72.25
Δ = 13° 28′ 38″ (LT)
Dc = 6° 15′ 00″
R = 916.73′
T = 108.32′
L = 215.63′
E = 6.38′
C = 215.14′
C.B. = N 81° 18′ 27″ E

EXIST HUNT RD CURVE DATA
P.I.Sta. 804+27.76
Δ = 2° 57′ 48″ (LT)
Dc = 1° 00′ 00″
R = 5,729.54′
T = 148.19′
L = 296.32′
E = 1.92′
C = 296.29′
C.B. = N 73° 05′ 14″ E

EXIST HUNT RD CURVE DATA
P.I.Sta. 799+32.52
Δ = 13° 12′ 00″ (LT)
Dc = 5° 00′ 00″
R = 1,145.91′
T = 132.59′
L = 264.00′
E = 7.65′
C = 263.42′
C.B. = S 85° 21′ 14″ E

LEGEND
A STA 801+47.71 ℄ EXIST HUNT RD = STA 5+00.00 ℄ KROGER ENTRANCE
B PROP CURB & GUTTER, TYPE 2
C PROP CURB, TYPE 6
EXISTING PAVEMENT TO REMAIN, PAVEMENT PLANING AND RESURFACING



MATCH LINE - STA 800+00.00 SEE SHEET 138

℄ CONST EXIST HUNT RD

MATCH LINE - STA 805+50.00 SEE SHEET 140

PLAN AND PROFILE - HUNT RD
STA. 800+00.00 TO STA. 805+50.00

HAM-PLAINFIELD RD
ROUNDABOUTS

HORIZONTAL SCALE IN FEET

CALCULATED CML CHECKED JS

139
335

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EXIST HUNT RD CURVE DATA
P.I.Sta. 804+27.76
Δ = 2° 57′ 48″ (LT)
Dc = 1° 00′ 00″
R = 5,729.54′
T = 148.19′
L = 296.32′
E = 1.92′
C = 296.29′
C.B. = N 73° 05′ 14″ E

EXIST HUNT RD CURVE DATA
P.I.Sta. 809+02.62
Δ = 1° 44′ 27″ (LT)
Dc = 1° 00′ 00″
R = 5,729.54′
T = 87.04′
L = 174.07′
E = 0.66′
C = 174.07′
C.B. = N 70° 44′ 07″ E

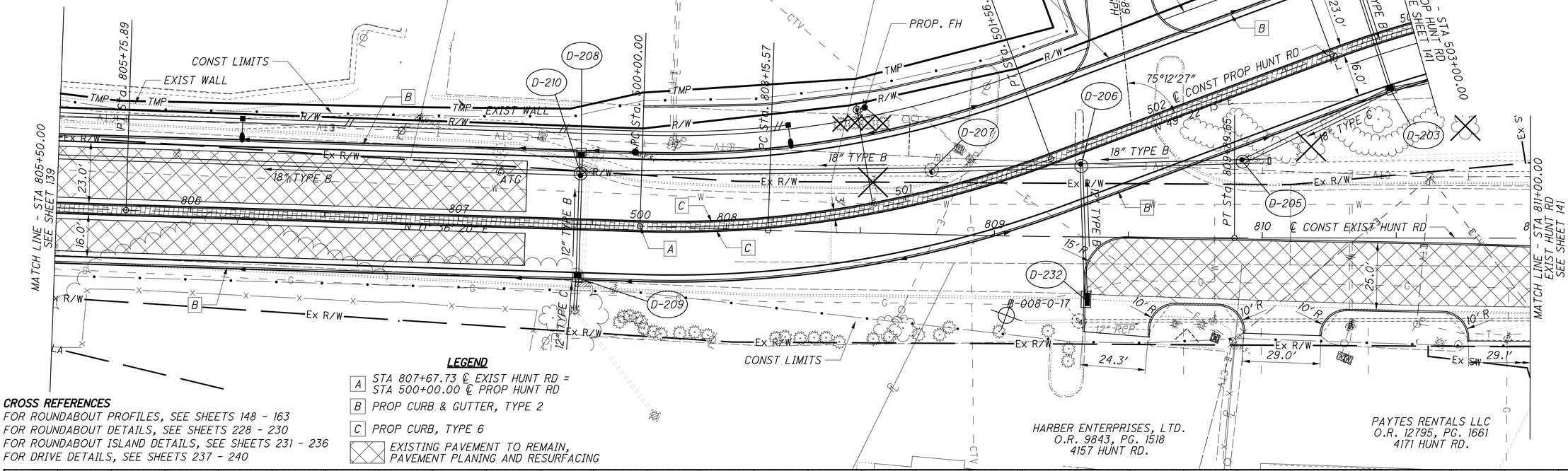
MCDONALD'S CORPORATION
D.B. 4197, PG. 1713
4140 HUNT RD.

PROP HUNT RD CURVE DATA
P.I.Sta. 500+79.19
Δ = 22° 14′ 07″ (LT)
Dc = 14° 13′ 02″
R = 403.00′
T = 79.19′
L = 156.40′
E = 7.71′
C = 155.42′
C.B. = N 60° 29′ 17″ E

PEOPLE'S SAVINGS ASSOCIATION
D.B. 4207, PG. 857
D.B. 4198, PG. 1583
4144 HUNT RD.

BLUE ASH, OH REALTY LLC
O.R. 10469, PG. 2060
4150 HUNT RD.

PROP HUNT RD CURVE DATA
P.I.Sta. 503+51.00
Δ = 23° 13′ 22″ (RT)
Dc = 14° 13′ 02″
R = 403.00′
T = 82.81′
L = 163.34′
E = 8.42′
C = 162.23′
C.B. = N 60° 58′ 54″ E



LEGEND

A STA 807+67.73 ℄ EXIST HUNT RD = STA 500+00.00 ℄ PROP HUNT RD

B PROP CURB & GUTTER, TYPE 2

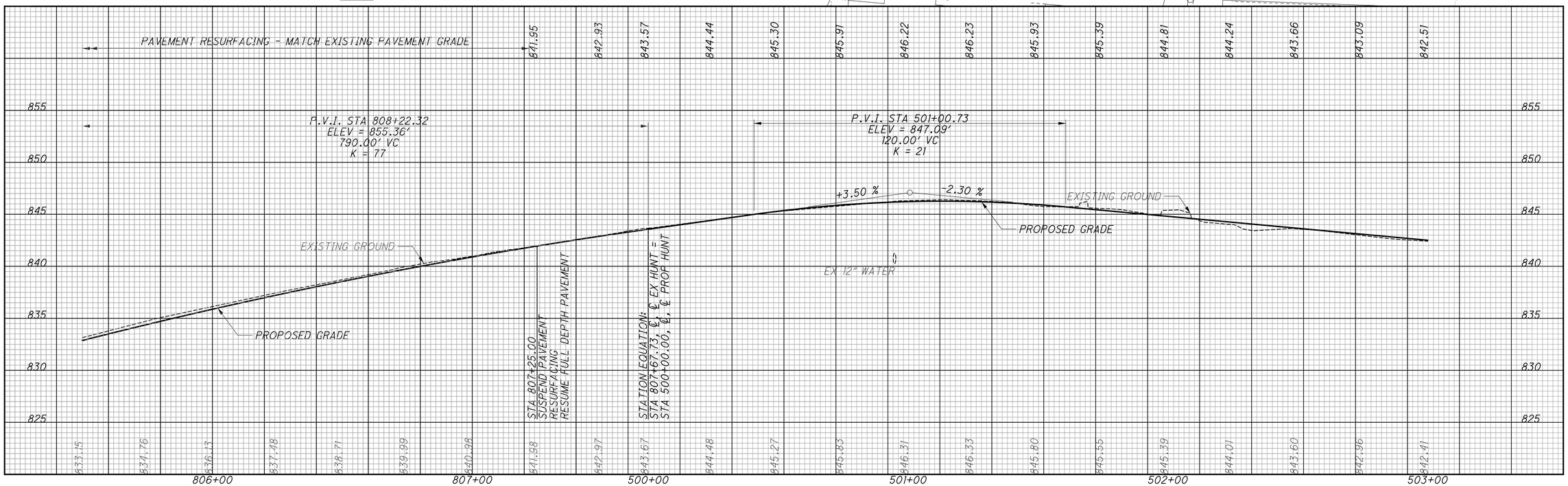
C PROP CURB, TYPE 6

EXISTING PAVEMENT TO REMAIN, PAVEMENT PLANING AND RESURFACING

CROSS REFERENCES
FOR ROUNDABOUT PROFILES, SEE SHEETS 148 - 163
FOR ROUNDABOUT DETAILS, SEE SHEETS 228 - 230
FOR ROUNDABOUT ISLAND DETAILS, SEE SHEETS 231 - 236
FOR DRIVE DETAILS, SEE SHEETS 237 - 240

HARBER ENTERPRISES, LTD.
O.R. 9843, PG. 1518
4157 HUNT RD.

PAYTES RENTALS LLC
O.R. 12795, PG. 1661
4171 HUNT RD.



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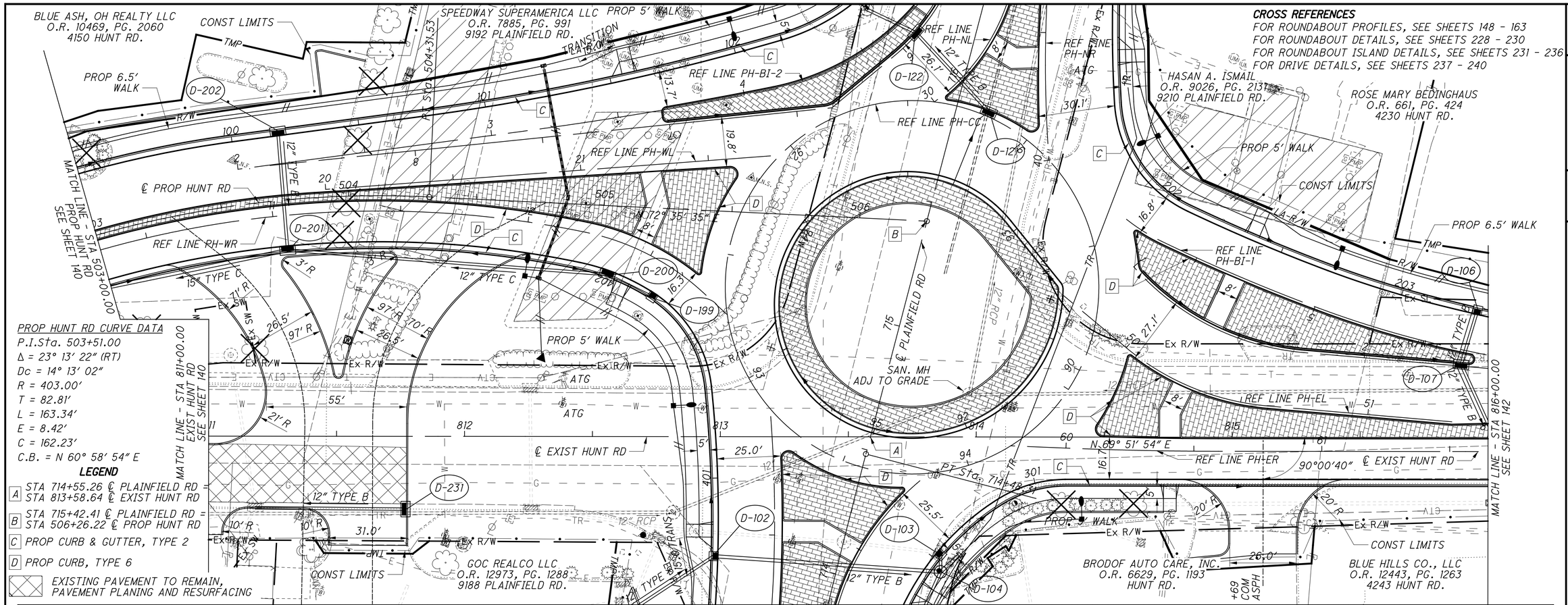
HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CML
CHECKED JS

PLAN AND PROFILE - HUNT RD
STA. 805+50.00 TO STA. 503+00.00

HAM-PLAINFIELD RD
ROUNDABOUTS



HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CML
CHECKED JS

PLAN AND PROFILE - HUNT RD
STA 503+00.00 TO STA. 816+00.00

HAM-PLAINFIELD RD ROUNDABOUTS

141
335

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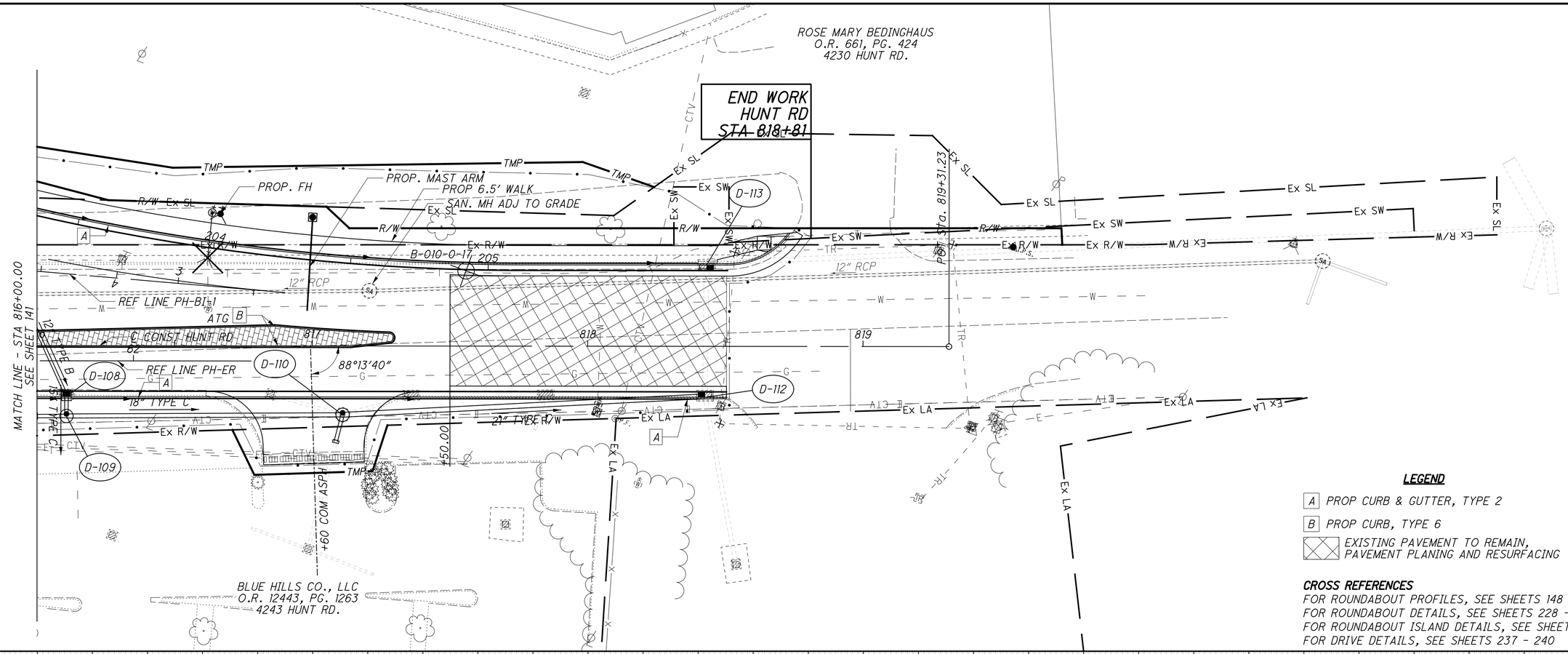
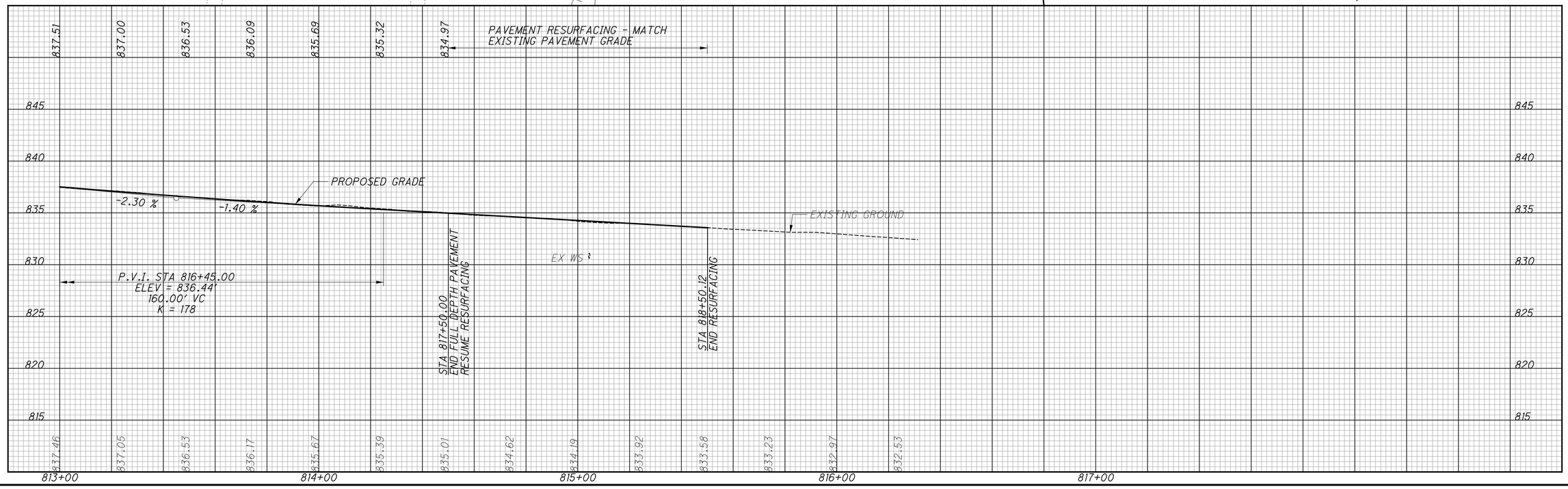


LEGEND

- A — PROP CURB & GUTTER, TYPE 2
- B — PROP CURB, TYPE 6
- EXISTING PAVEMENT TO REMAIN, PAVEMENT PLANING AND RESURFACING

CROSS REFERENCES

FOR ROUNDABOUT PROFILES, SEE SHEETS 148 - 163
FOR ROUNDABOUT DETAILS, SEE SHEETS 228 - 230
FOR ROUNDABOUT ISLAND DETAILS, SEE SHEETS 231 - 236
FOR DRIVE DETAILS, SEE SHEETS 237 - 240



HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CML
CHECKED JS

PLAN AND PROFILE - HUNT RD
STA 816+00.00 TO STA. 818+50.00

HAM-PLAINFIELD RD
ROUNDABOUTS

142
335

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CROSS REFERENCES
FOR ROUNDABOUT PROFILES, SEE SHEETS 148 - 163
FOR ROUNDABOUT DETAILS, SEE SHEETS 228 - 230
FOR ROUNDABOUT ISLAND DETAILS, SEE SHEETS 231 - 236
FOR DRIVE DETAILS, SEE SHEETS 237 - 240

LEGEND

A STA 729+54.87 ℄ PLAINFIELD RD = STA 950+00.00 ℄ PEPPERMILL LN

B STA 729+56.71 ℄ PLAINFIELD RD BACK= STA 904+57.53 ℄ PLAINFIELD RD AHEAD= STA 729+56.71 ℄ REED HARTMAN HWY

C PROP CURB & GUTTER, TYPE 2

D PROP CURB, TYPE 6

E PROP CURB, TYPE 9

F PROP CURB, TYPE 3

PEPPERMILL LN CURVE DATA
P.I.Sta. 952+18.75
Δ = 7° 51′ 57″ (RT)
Dc = 9° 45′ 00″
R = 587.65′
T = 40.40′
L = 80.68′
E = 1.39′
C = 80.61′
C.B. = S 85° 16′ 34″ E

END WORK PEPPERMILL LN STA 952+30.07

CONST LIMITS
PROP RETAINING WALL
PROP 5′ WALK
REF LINE PP-NE
PROP 6.5′ WALK
REF LINE PP-EL
REF LINE PP-ER
REF LINE PP-CC
REF LINE PP-WL
REF LINE PP-WR
REF LINE PP-SW
REF LINE PP-SL
REF LINE PP-SR
PROP 8′ WALK
PROP 5′ WALK

℄ CONST PLAINFIELD RD
℄ CONST HARTMAN
℄ CONST PEPPERMILL LN
S 89° 12′ 33″ E
S 81° 20′ 36″ E
74°06′40″
89°19′06″
303
302
201
200
739
729
904
950
951
952
953
954

SAN. MH ADJ TO GRADE
+72 RES CONC
+22 RES CONC
PC STA. 952+59.02
PT STA. 954+33.29
95+18.35

WILLIAM L. MALLORE, JR.
AND WENDY S. KINCAID
O.R. 9449, PG. 1311
9456 BENCHMARK LN.

DONNA FLETCHER AND
ST. JOHN FLETCHER
O.R. 7994, PG. 2006
4223 PEPPERMILL LN.

MATTHEW H. LEE AND
CLAIRE R. LEE
O.R. 6494, PG. 209
4235 PEPPERMILL LN.

RYAN J. MCNALLY
O.R. 12337, PG. 1162
4211 PEPPERMILL LN.

BENCHMARK LN

SEE REFERENCE LINE PROFILES FOR PROPOSED PAVEMENT ELEVATIONS

EXISTING GROUND
PROPOSED GRADE
EX TRAFFIC
EX 12″ WATER
EX. ELECTRIC
EX WS
EX FO
EX CABLE TV
EX TELCOM
EX ELECTRIC
EX GAS SERVICE
EX WS
12″ TYPE B

820 815 810 805 800 795 790

805.94 804.86 804.55 804.84 805.45 806.20 807.35 808.53 809.76 810.98 812.20 813.35 814.32 815.39 816.60

950+00 951+00 952+00 953+00 954+00 955+00

CALCULATED CML CHECKED JS

HORIZONTAL SCALE IN FEET 0 10 20 40

PLAN AND PROFILE - PEPPERMILL LN
PLAINFIELD RD TO STA. 954+00.00

HAM-PLAINFIELD RD ROUNDABOUTS

143 / 335

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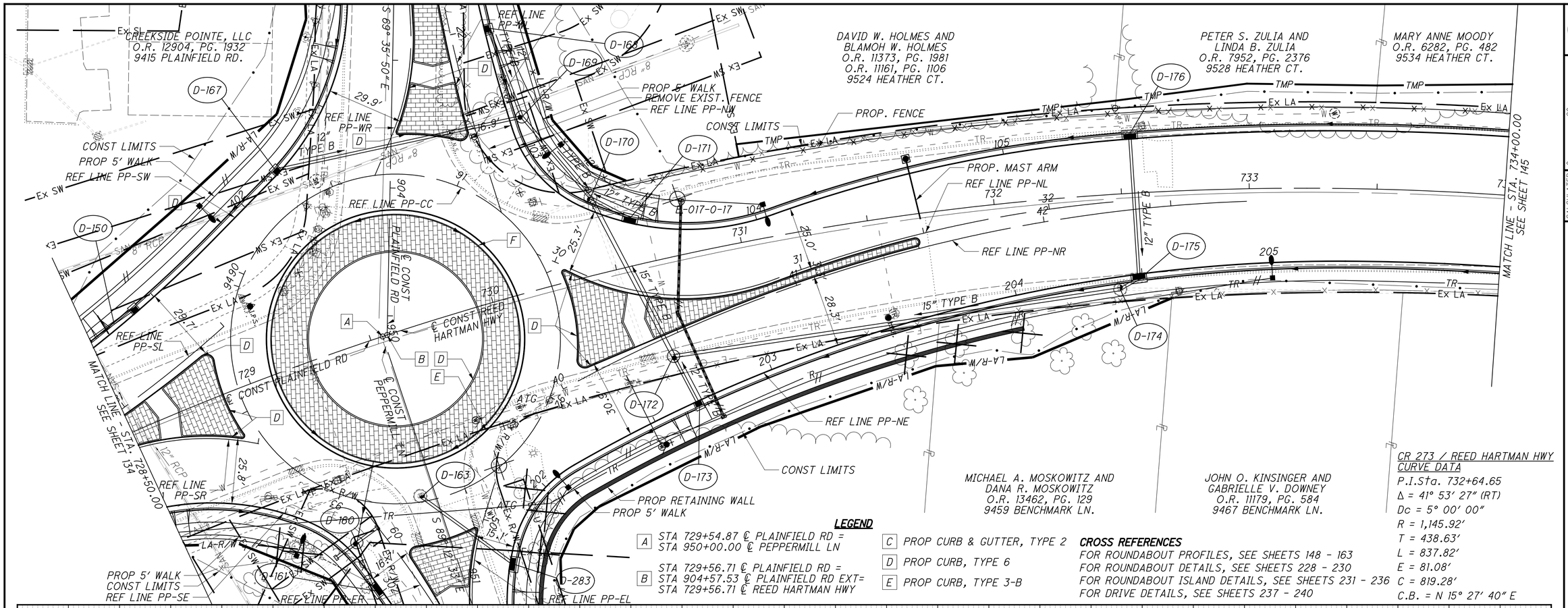
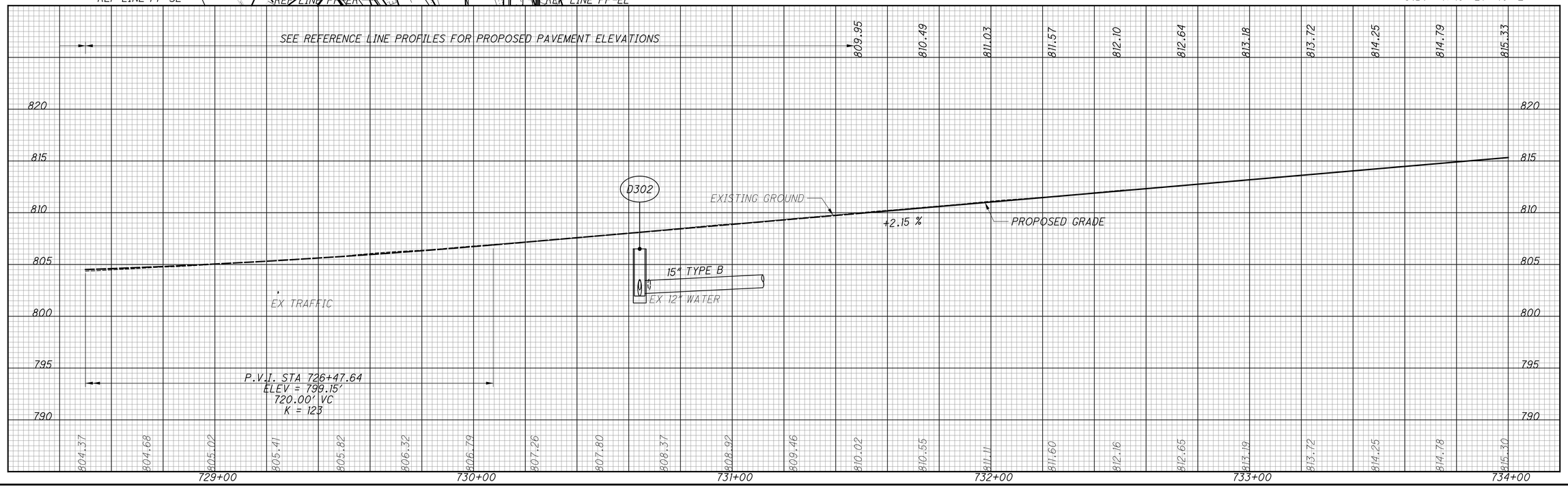


LEGEND

- A — STA 729+54.87 ℄ PLAINFIELD RD = STA 950+00.00 ℄ PEPPERMILL LN
- B — STA 729+56.71 ℄ PLAINFIELD RD = STA 904+57.53 ℄ PLAINFIELD RD EXT= STA 729+56.71 ℄ REED HARTMAN HWY
- C — PROP CURB & GUTTER, TYPE 2
- D — PROP CURB, TYPE 6
- E — PROP CURB, TYPE 3-B

CROSS REFERENCES

FOR ROUNDABOUT PROFILES, SEE SHEETS 148 - 163
FOR ROUNDABOUT DETAILS, SEE SHEETS 228 - 230
FOR ROUNDABOUT ISLAND DETAILS, SEE SHEETS 231 - 236
FOR DRIVE DETAILS, SEE SHEETS 237 - 240



HORIZONTAL SCALE IN FEET
0 10 20 40
CALCULATED CML
CHECKED JS

PLAN AND PROFILE - REED HARTMAN HWY STA. 728+50.00 TO STA. 734+00.00

HAM-PLAINFIELD RD ROUNDABOUTS

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END PROJECT
REED HARTMAN HWY
STA 734+10

END WORK
REED HARTMAN HWY
STA 735+10

D-177

Ex LA

TMP

TR

A

MATCH LINE - STA. 734+00.00
SEE SHEET 144

END FULL DEPTH PAVT
STA 734+10

CONST LIMITS

735

736

℄ CONST REED HARTMAN HWY

P.I. Sta. 736+63.84

LEGEND

A PROP CURB & GUTTER, TYPE 2

CR 273 / REED HARTMAN HWY
CURVE DATA
P.I.Sta. 732+64.65
Δ = 41° 53′ 27″ (RT)
Dc = 5° 00′ 00″
R = 1,145.92′
T = 438.63′
L = 837.82′
E = 81.08′
C = 819.28′
C.B. = N 15° 27′ 40″ E

EXISTING GROUND

PROPOSED GRADE

+2.15 %

STA 734+10.00
END FULL DEPTH PAVEMENT

815.33
815.30
815.84
816.40
816.92
817.40

830
825
820
815
810
805
800

734+00
735+00
736+00

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CML
CHECKED JS

PLAN AND PROFILE - REED HARTMAN HWY
STA. 734+00.00 TO STA. 736+63.84

HAM-PLAINFIELD RD ROUNDABOUTS

145
335

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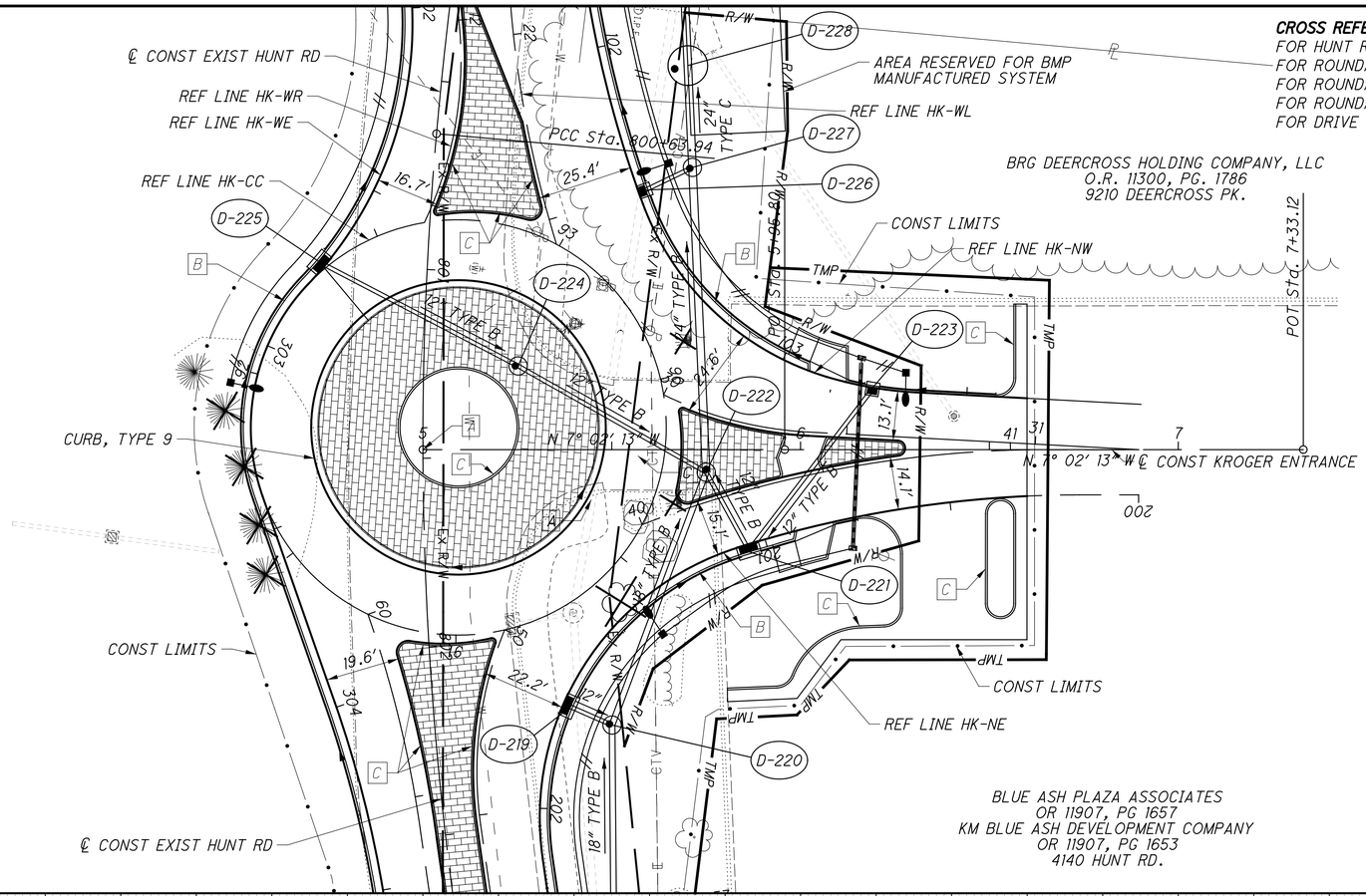

CROSS REFERENCES

FOR HUNT RD PLAN AND PROFILE, SEE SHEETS 138 - 142
FOR ROUNDABOUT PROFILES, SEE SHEETS 148 - 163
FOR ROUNDABOUT DETAILS, SEE SHEETS 228 - 230
FOR ROUNDABOUT ISLAND DETAILS, SEE SHEETS 231 - 236
FOR DRIVE DETAILS, SEE SHEETS 237 - 240

EXIST HUNT RD CURVE DATA
P.I.Sta. 799+32.52
Δ = 13° 12' 00" (LT)
Dc = 5° 00' 00"
R = 1,145.91'
T = 132.59'
L = 264.00'
E = 7.65'
C = 263.42'
C.B. = S 85° 21' 14" E

EXIST HUNT RD CURVE DATA
P.I.Sta. 801+72.25
Δ = 13° 28' 38" (LT)
Dc = 6° 15' 00"
R = 916.73'
T = 108.32'
L = 215.63'
E = 6.38'
C = 215.14'
C.B. = N 81° 18' 27" E

LEGEND

A STA 801+47.71 ℄ EXIST HUNT RD = STA 5+00.00 ℄ KROGER ENTRANCE
B PROP CURB & GUTTER, TYPE 2
C PROP CURB, TYPE 6
EXISTING PAVEMENT TO REMAIN, PAVEMENT PLANING AND RESURFACING

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CML
CHECKED JS

PLAN AND PROFILE - KROGER ENTRANCE
STA. 5+00.00 TO STA. 7+33.12

HAM-PLAINFIELD RD
ROUNDABOUTS

146
335

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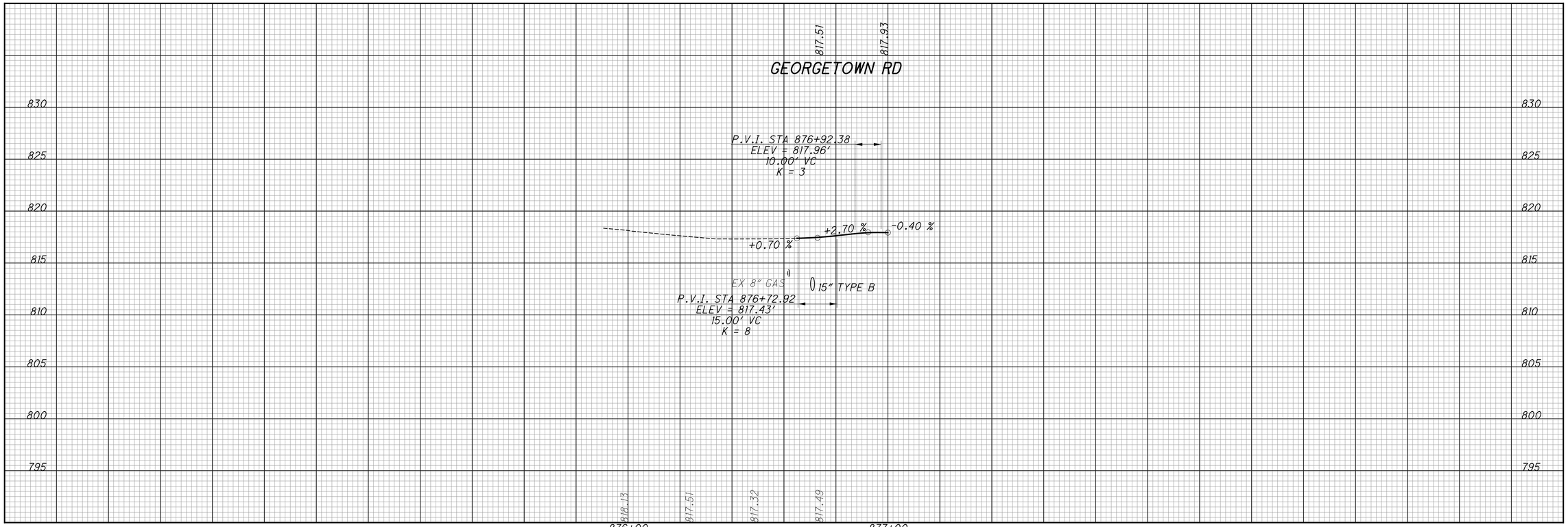
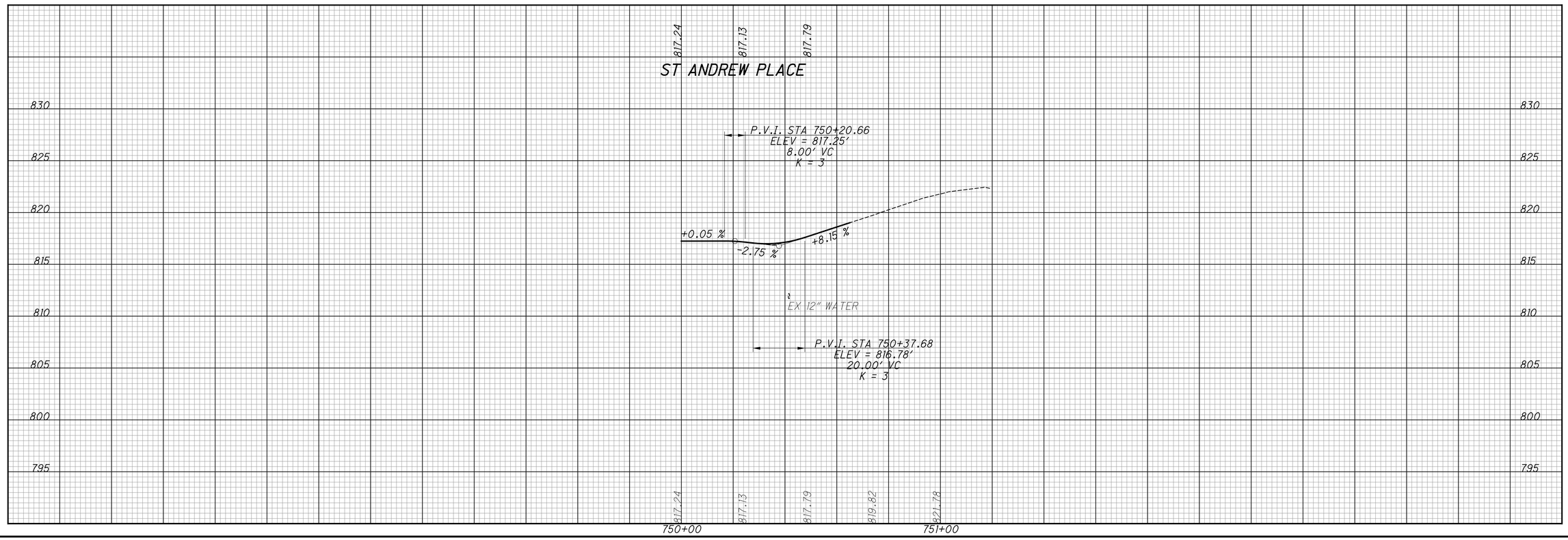


FOR PLAN VIEW, SEE SHEET 133



CALCULATED CML
CHECKED JS

PROFILES - GEORGETOWN ROAD & ST ANDREW PLACE

HAM-PLAINFIELD RD ROUNDABOUTS

147
335

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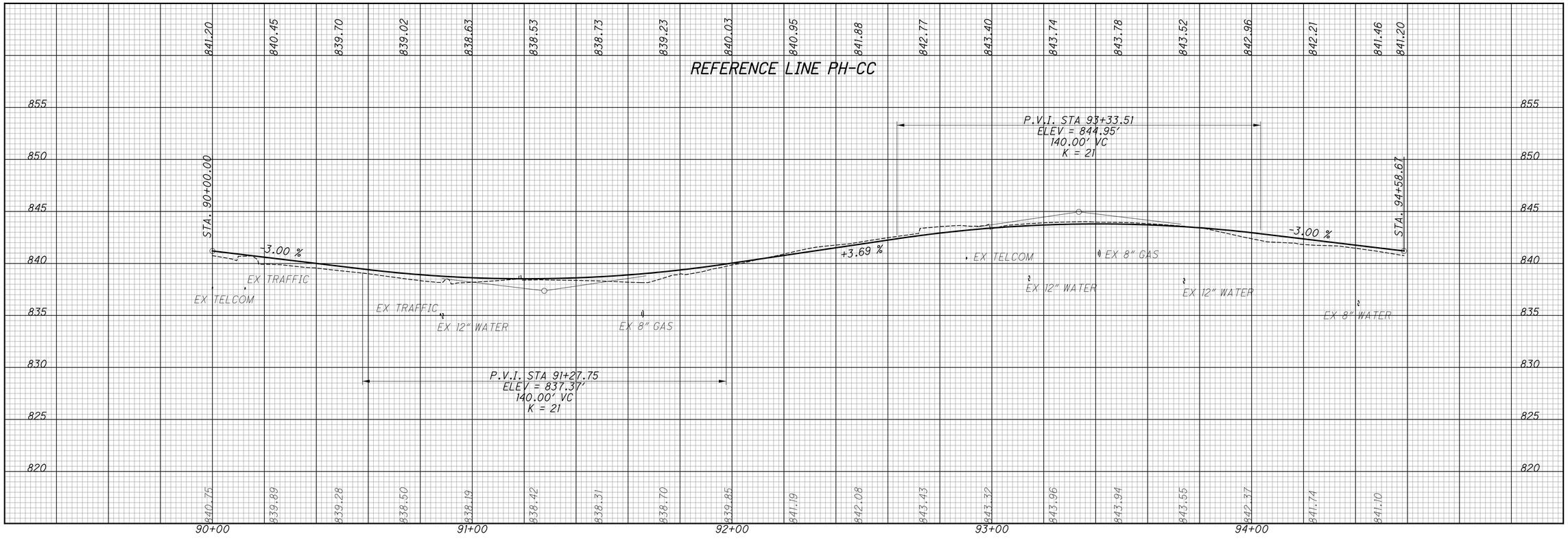

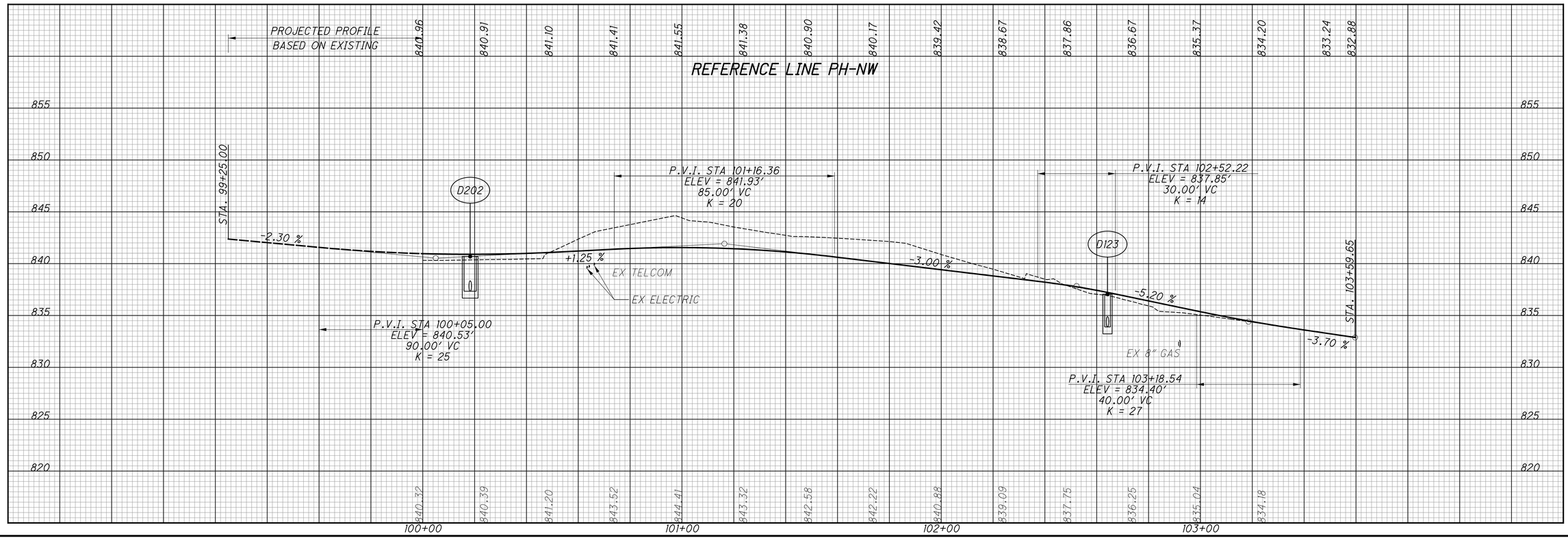

CALCULATED CML CHECKED JS

REFERENCE LINE PROFILES - PH-CC & PH-NW

HAM-PLAINFIELD RD ROUNDABOUTS

148 / 335

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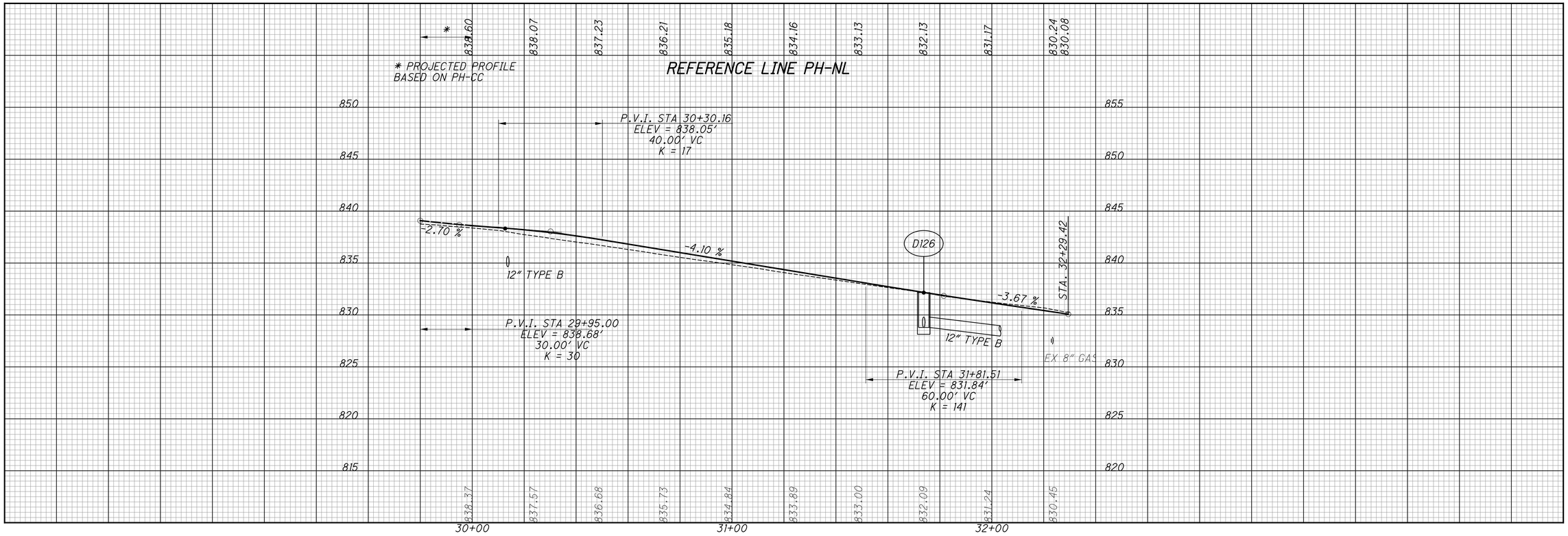

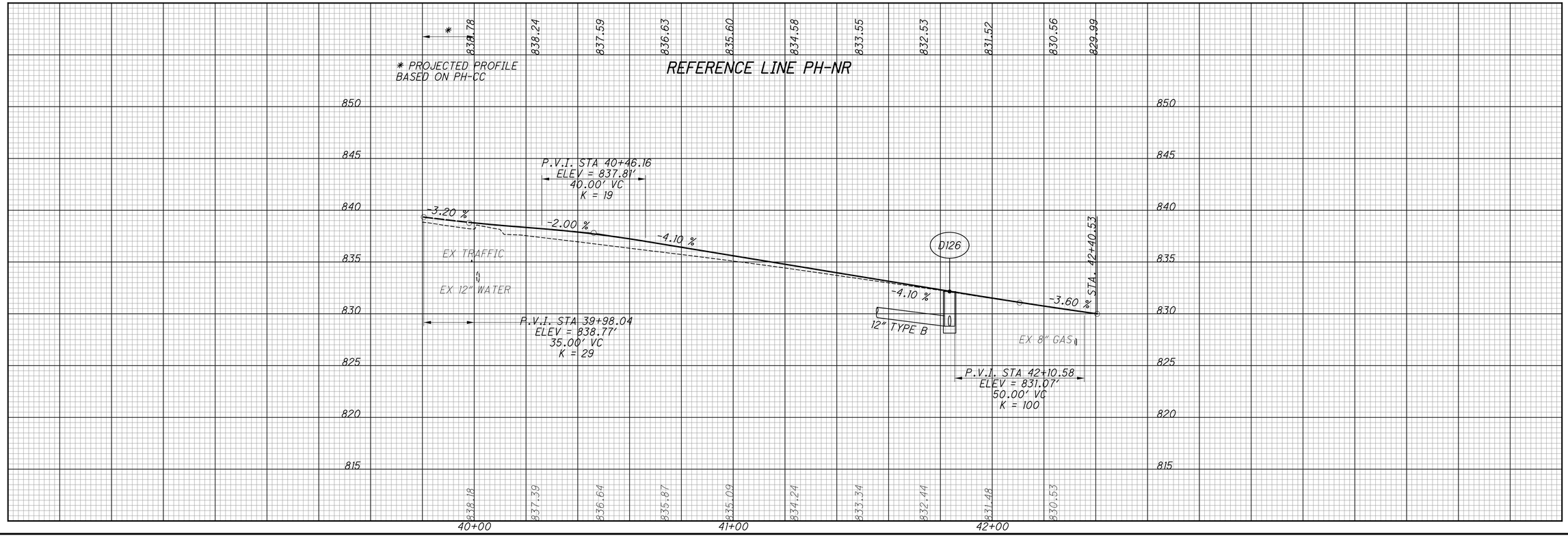

CALCULATED CML
CHECKED JS

REFERENCE LINE PROFILES - PH-NL & PH-NR

HAM-PLAINFIELD RD
ROUNDABOUTS

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335

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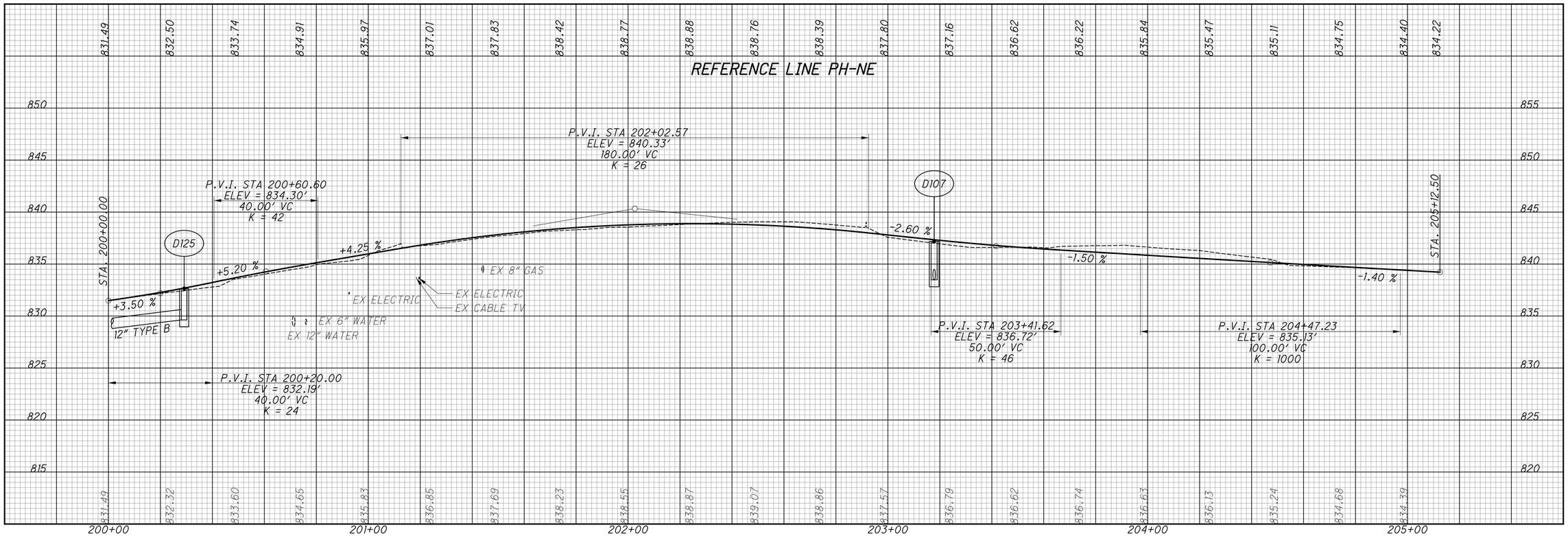

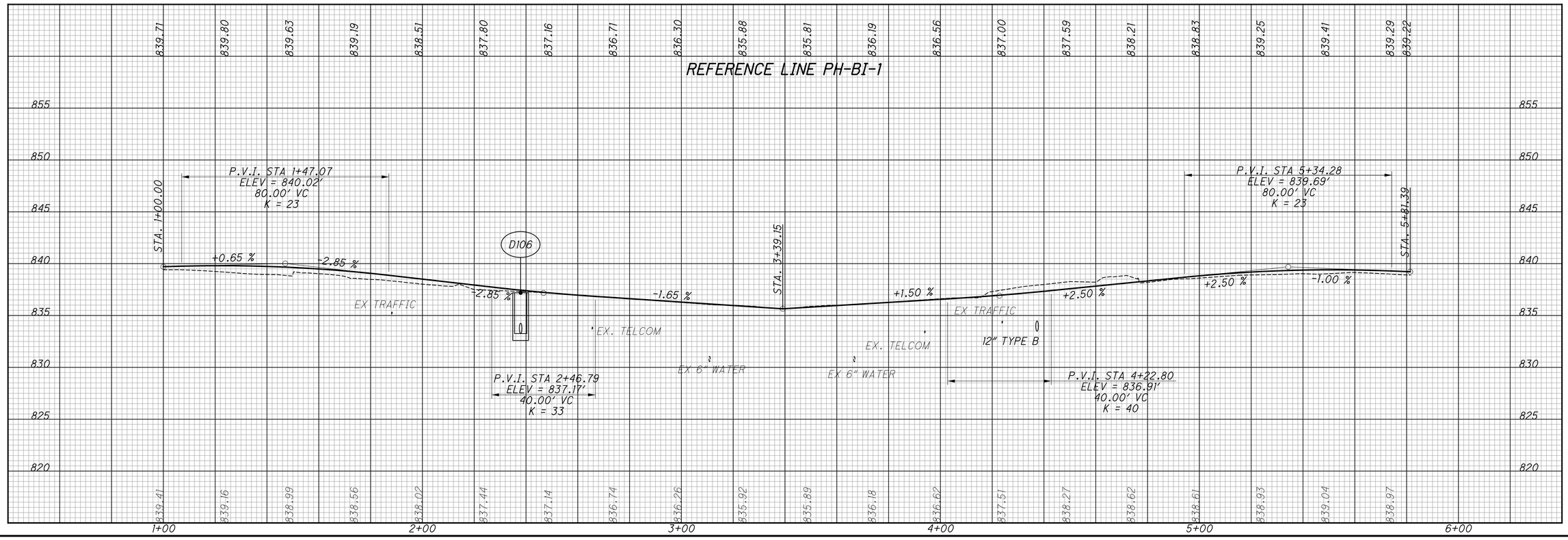

CALCULATED CML
CHECKED JS

REFERENCE LINE PROFILES - PH-NE & PH-BI-1

HAM-PLAINFIELD RD ROUNDABOUTS

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335

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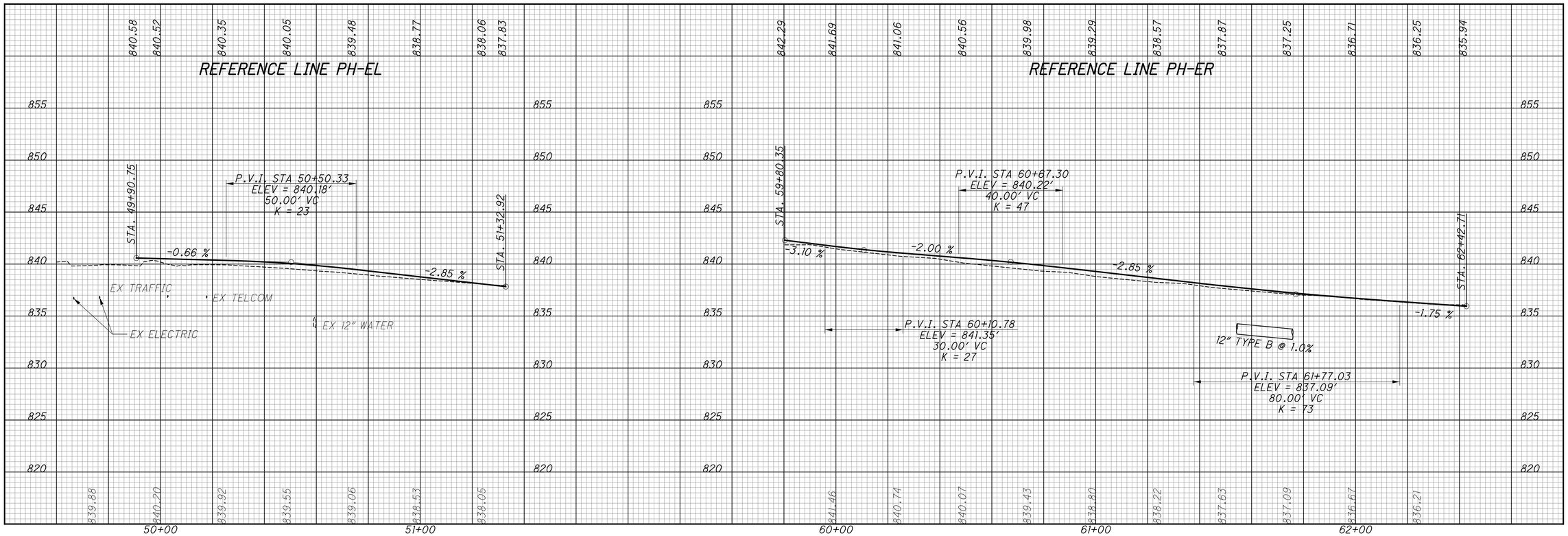

CALCULATED CML
CHECKED JS

REFERENCE LINE PROFILES - PH-EL, PH-ER, PH-SE & PH-SR

HAM-PLAINFIELD RD
ROUNDABOUTS

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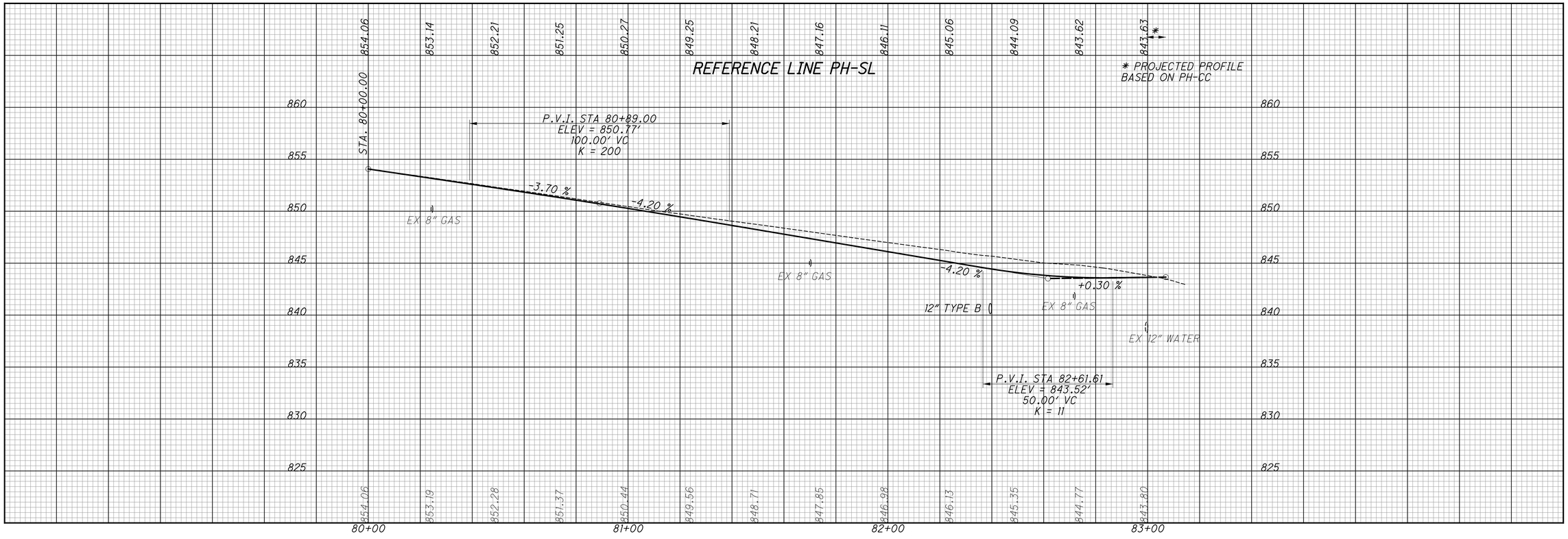

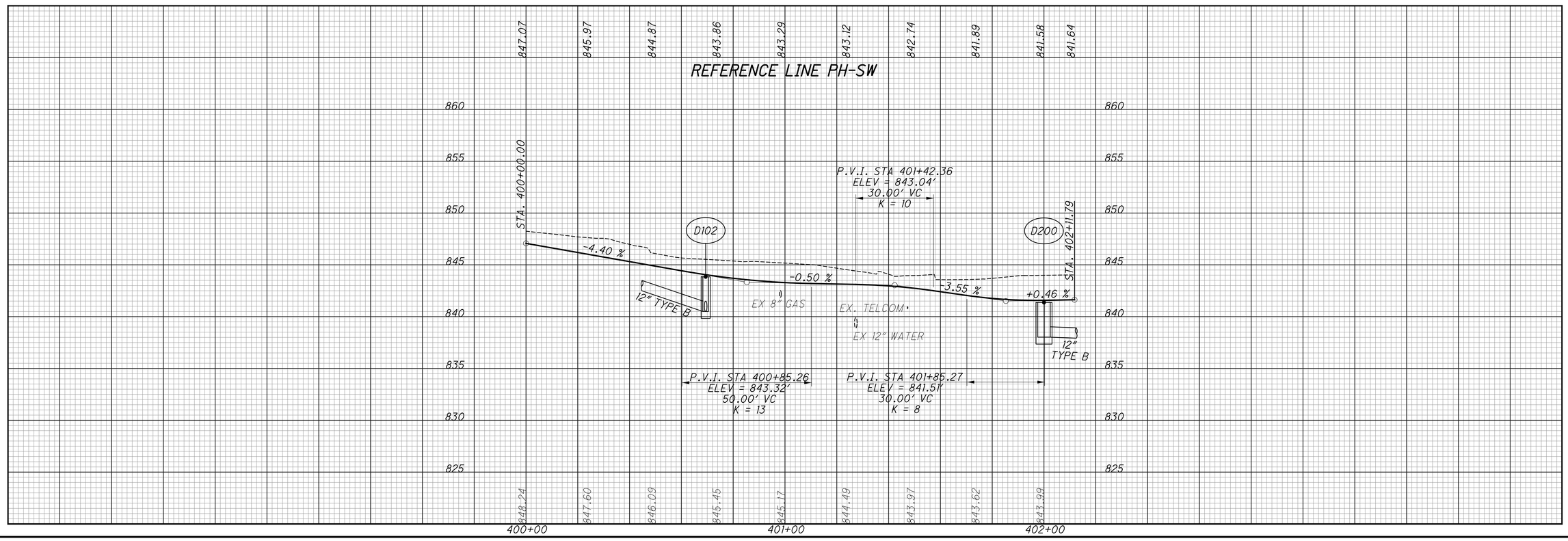

CALCULATED CML
CHECKED JS

REFERENCE LINE PROFILES - PH-SL & PH-SW

HAM-PLAINFIELD RD
ROUNDABOUTS

152
335

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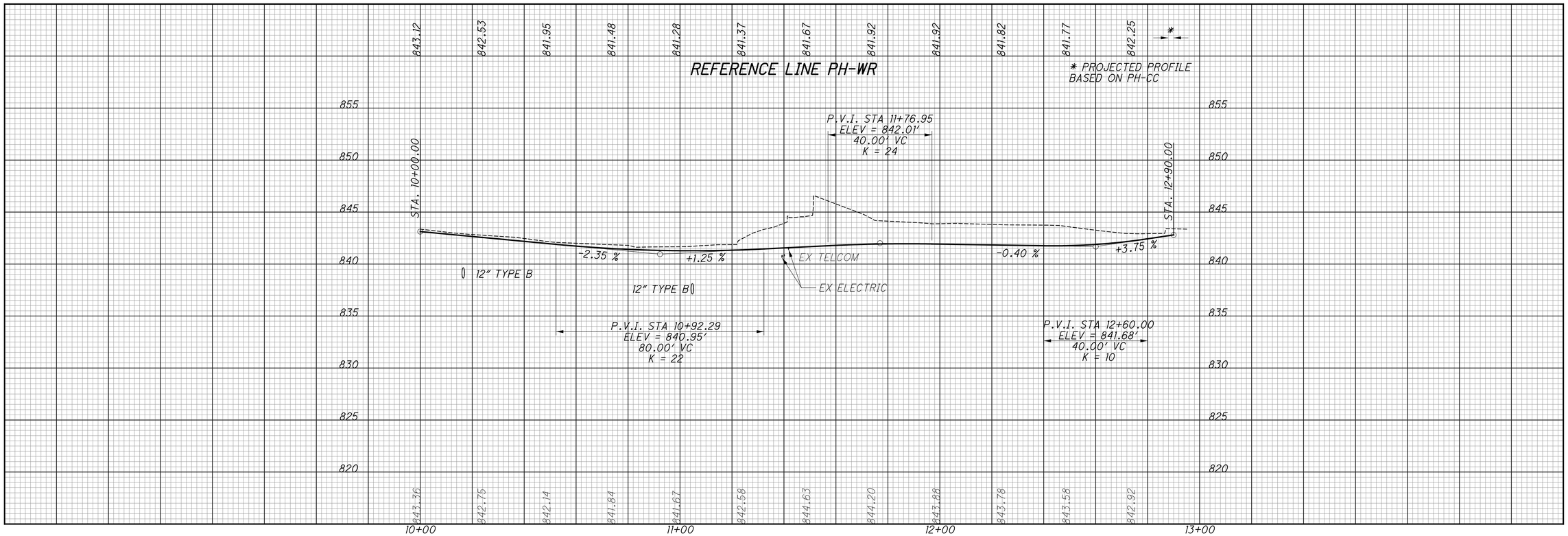

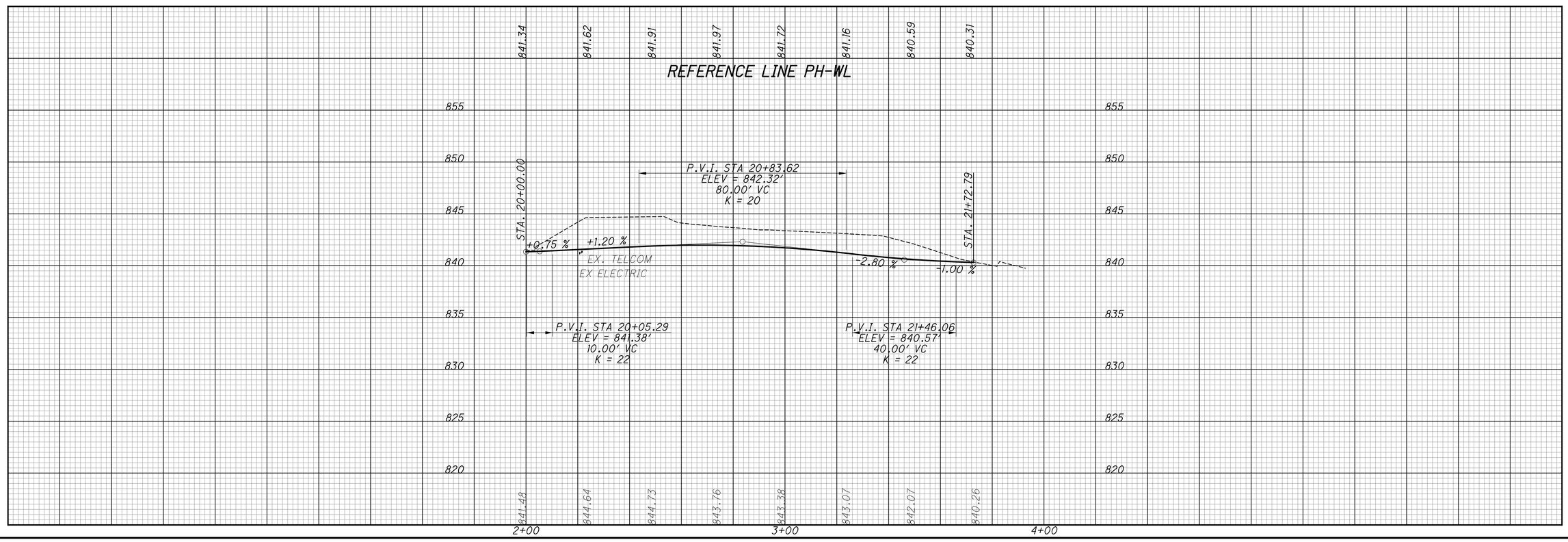

CALCULATED CML
CHECKED JS

REFERENCE LINE PROFILES - PH-WR & PH-WL

HAM-PLAINFIELD RD
ROUNDABOUTS

153
335

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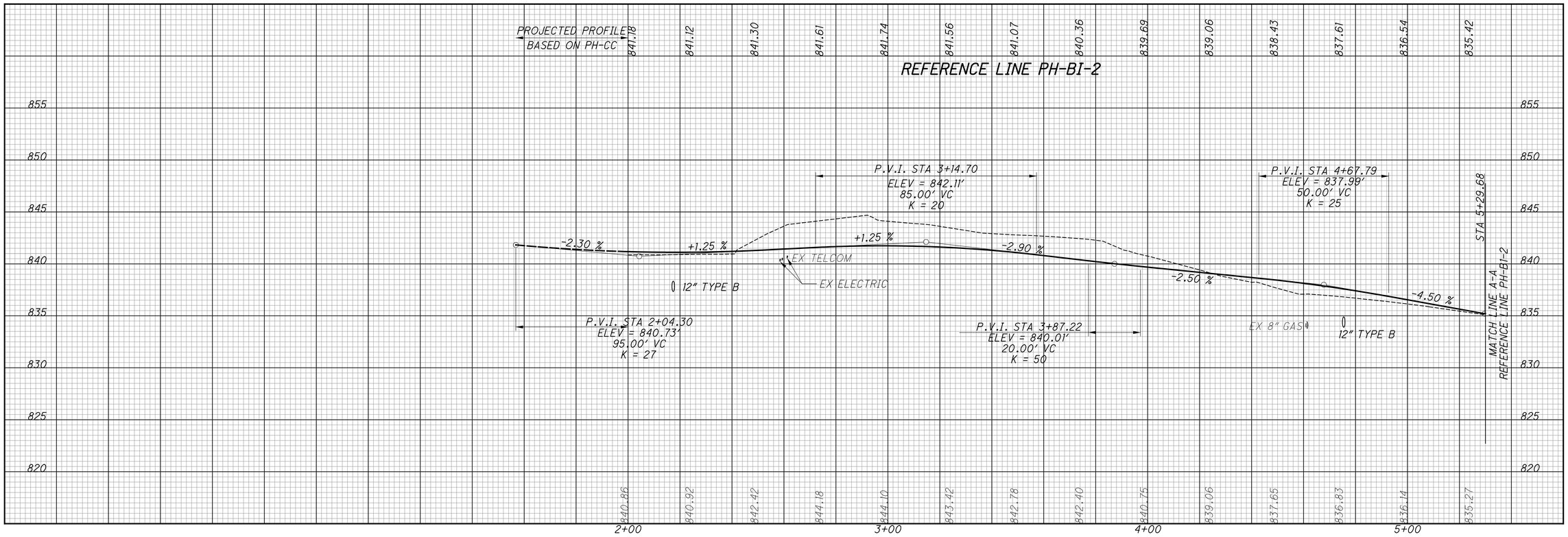

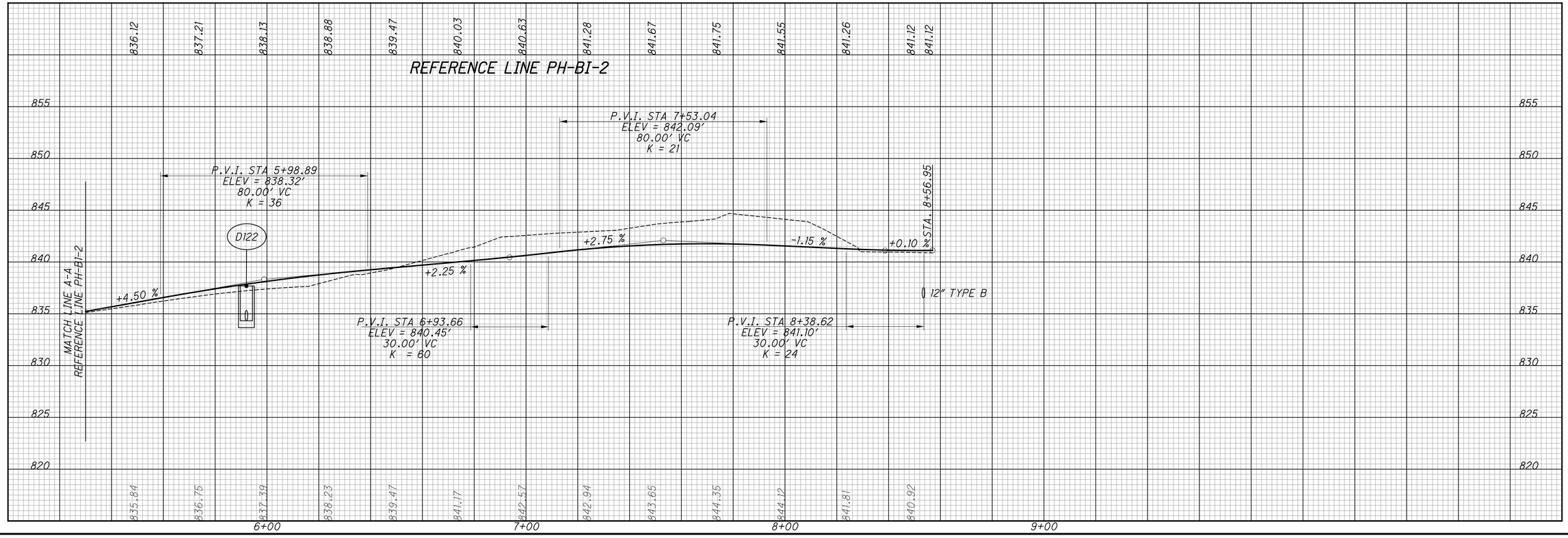

CALCULATED CML
CHECKED JS

REFERENCE LINE PROFILES - PH-BI-2

HAM-PLAINFIELD RD
ROUNDABOUTS

154
335

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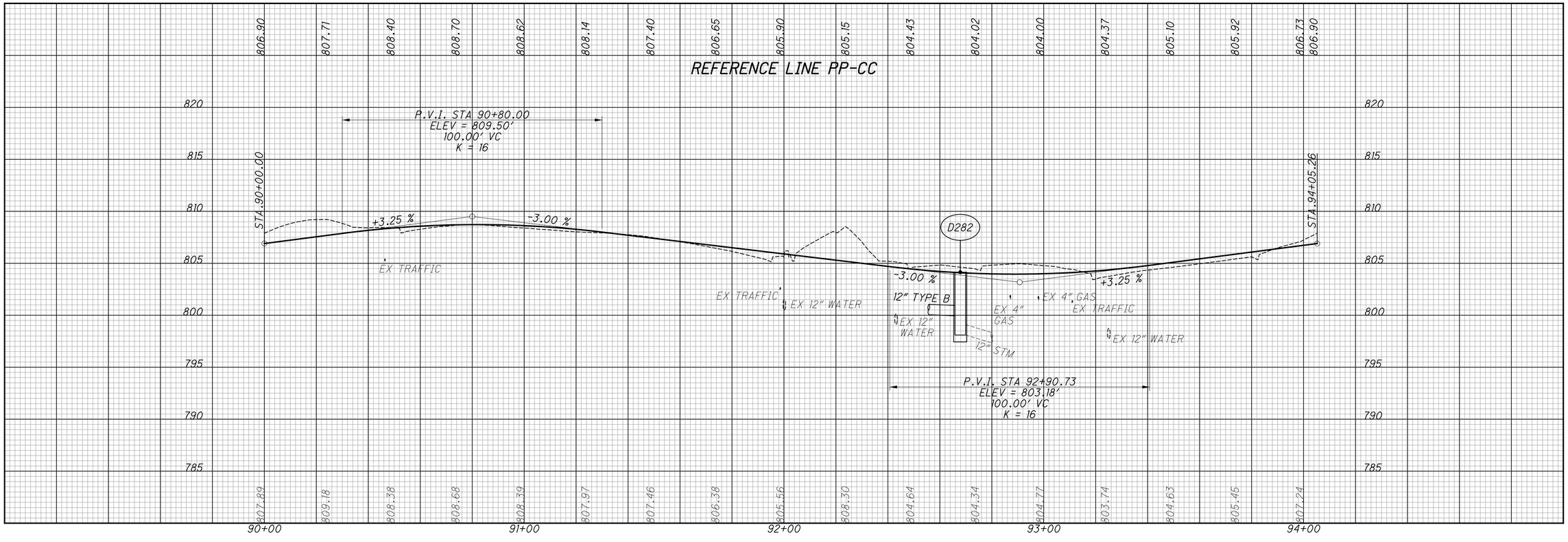

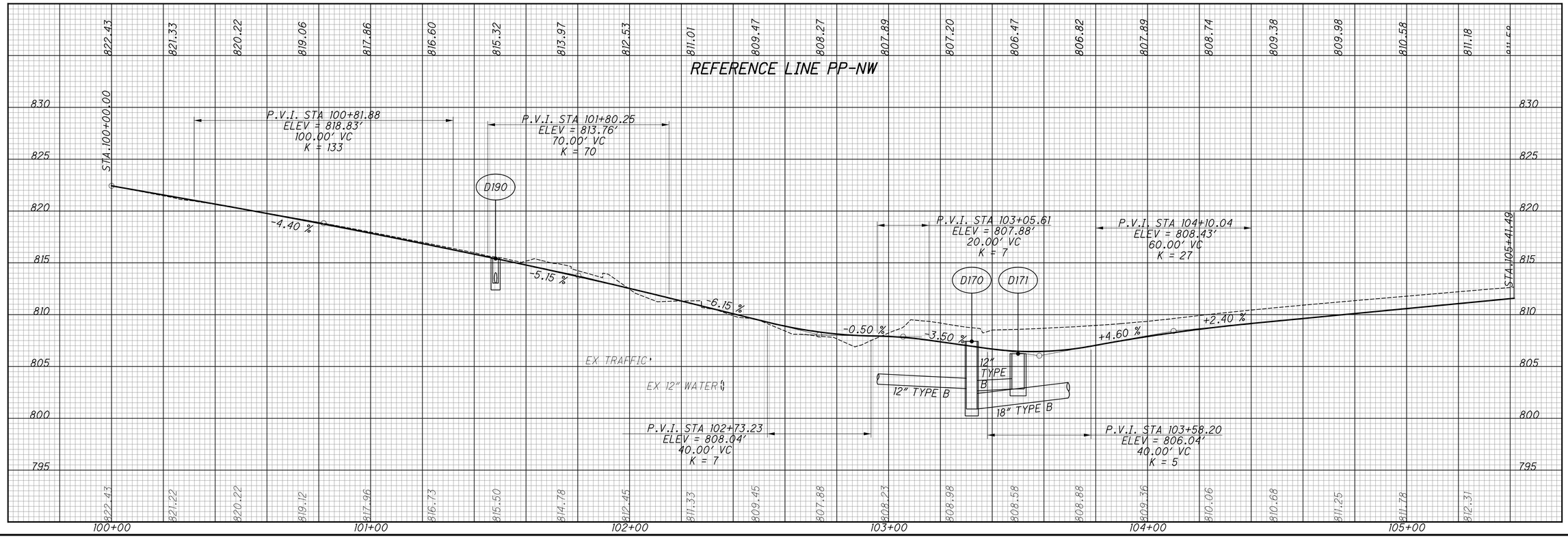

CALCULATED CML
CHECKED JS

REFERENCE LINE PROFILES - PP-CC & PP-NW

HAM-PLAINFIELD RD ROUNDABOUTS

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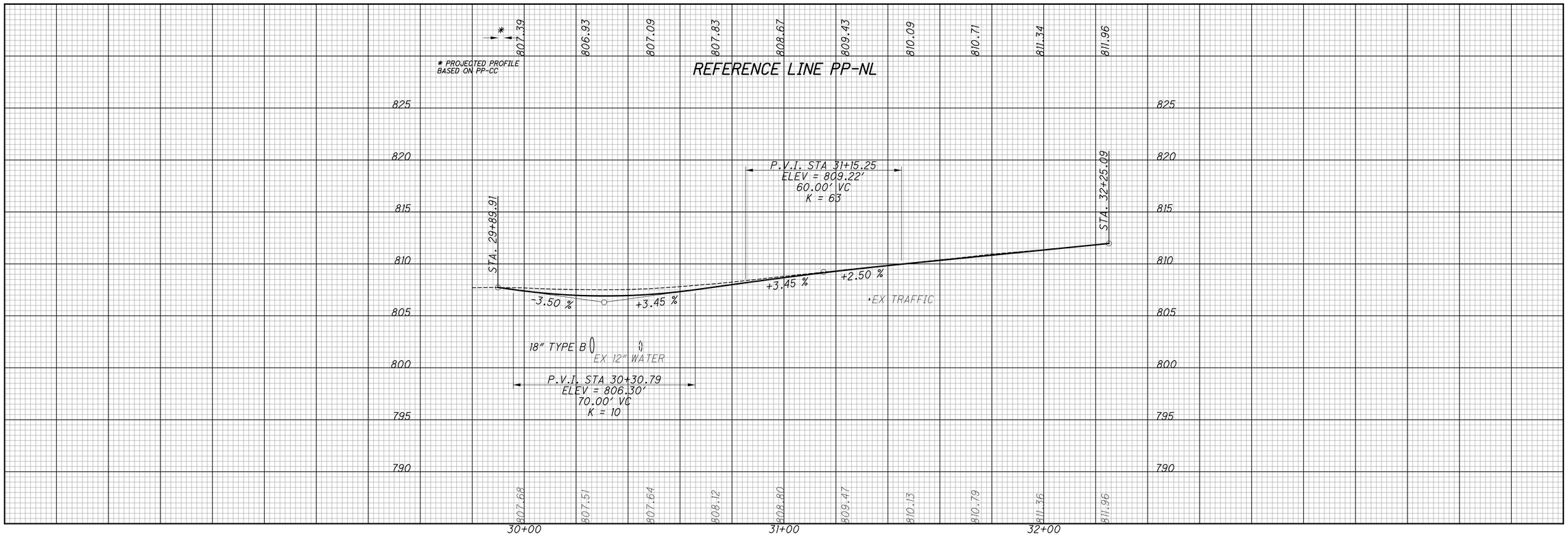

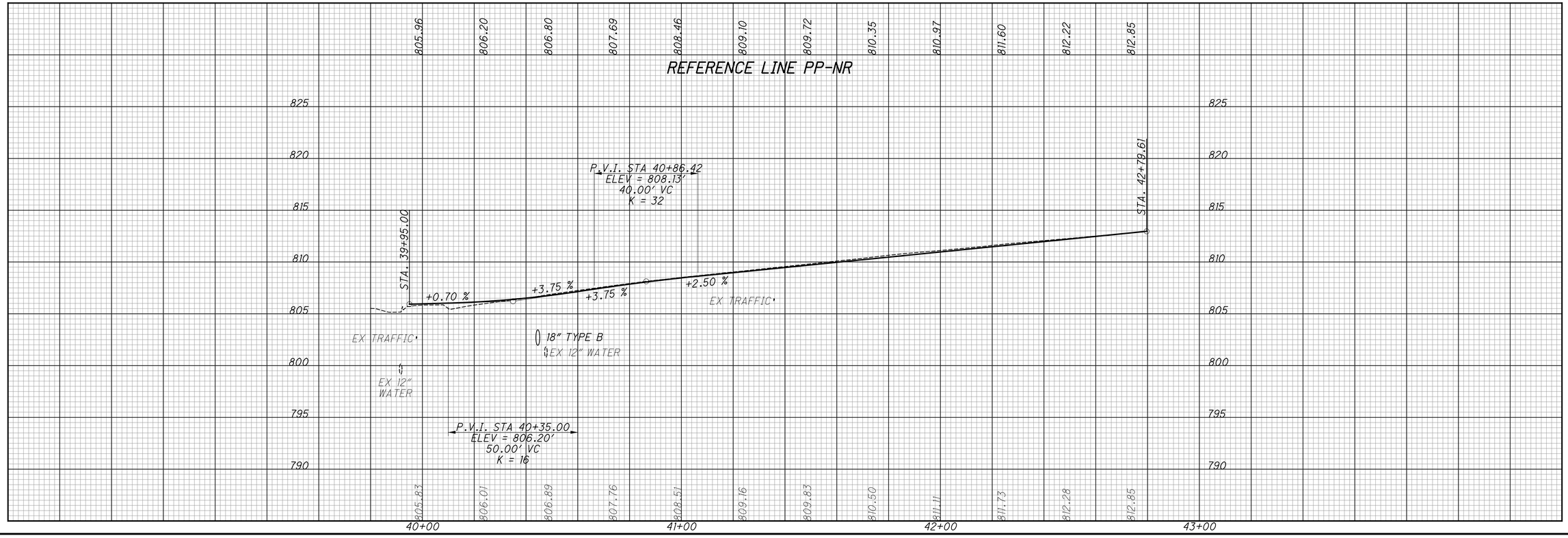

CALCULATED CML
CHECKED JS

REFERENCE LINE PROFILES - PP-NL & PP-NR

HAM-PLAINFIELD RD
ROUNDABOUTS

156
335

lstutler
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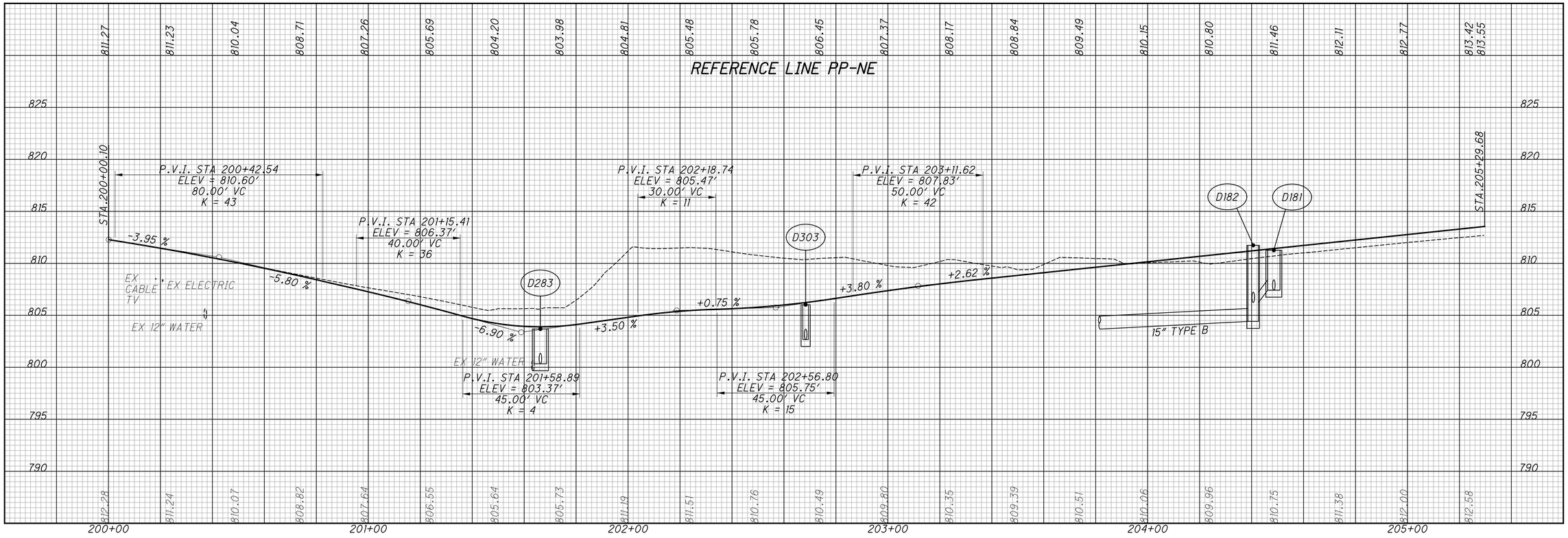

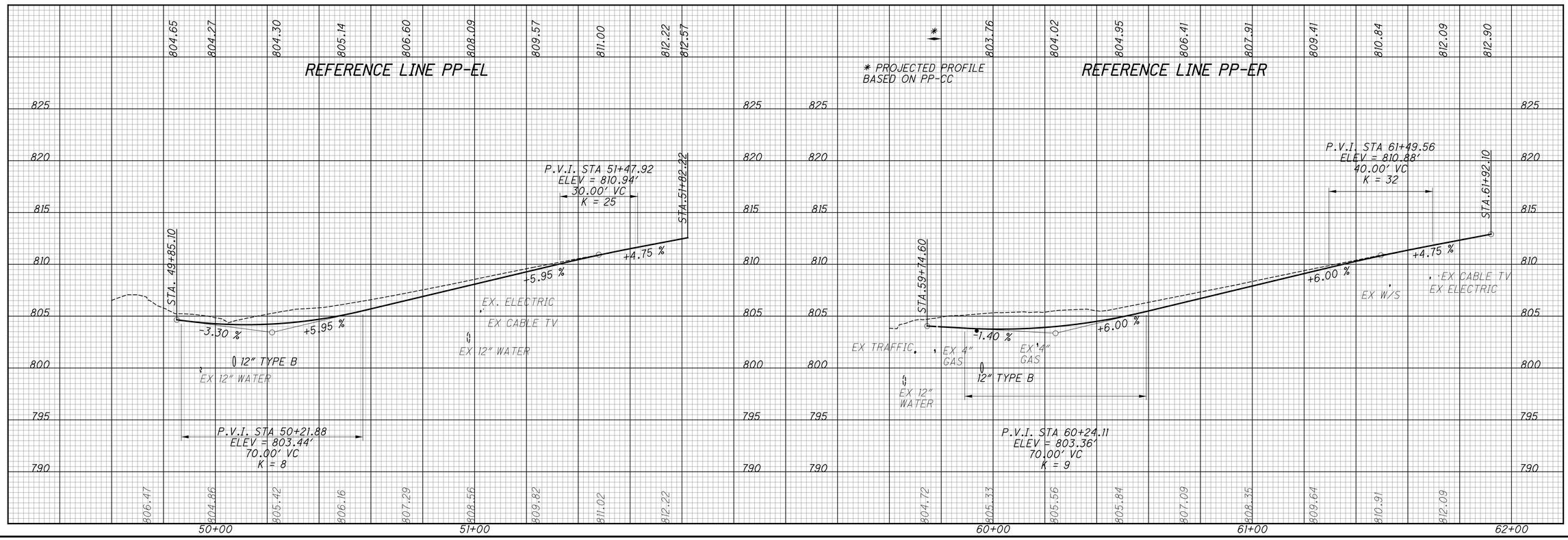

CALCULATED CML
CHECKED JS

REFERENCE LINE PROFILES - PP-NE, PP-EL & PP-ER

HAM-PLAINFIELD RD
ROUNDABOUTS

157
335

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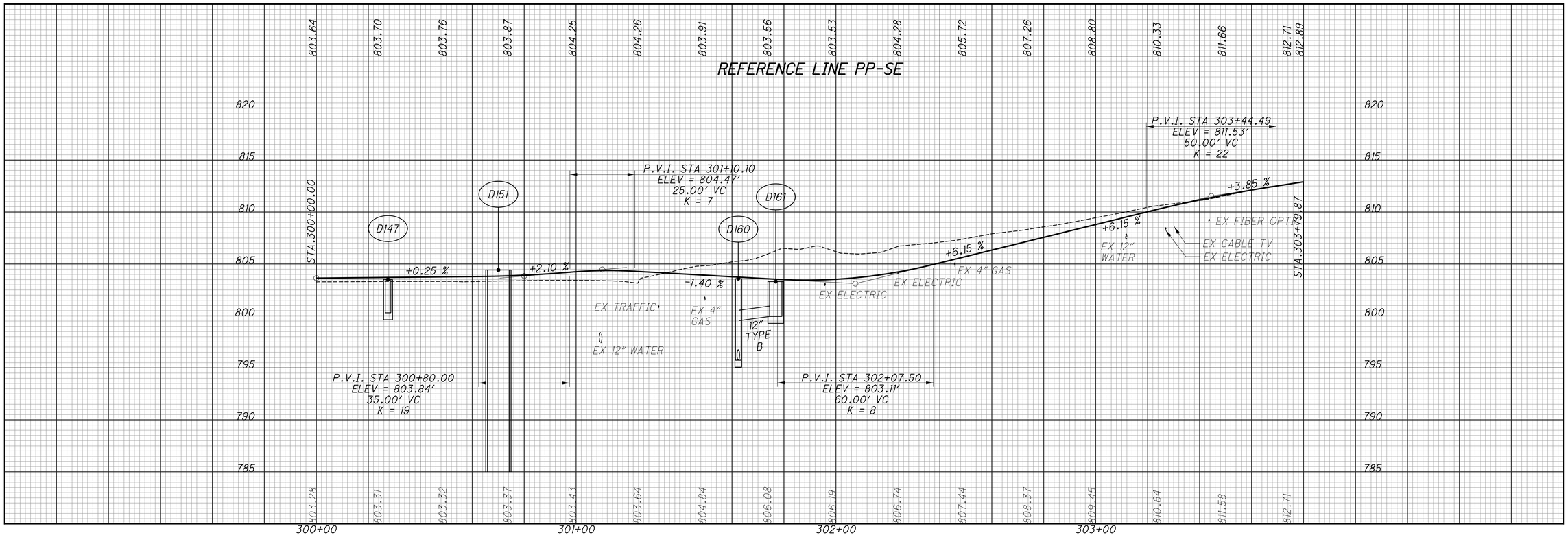

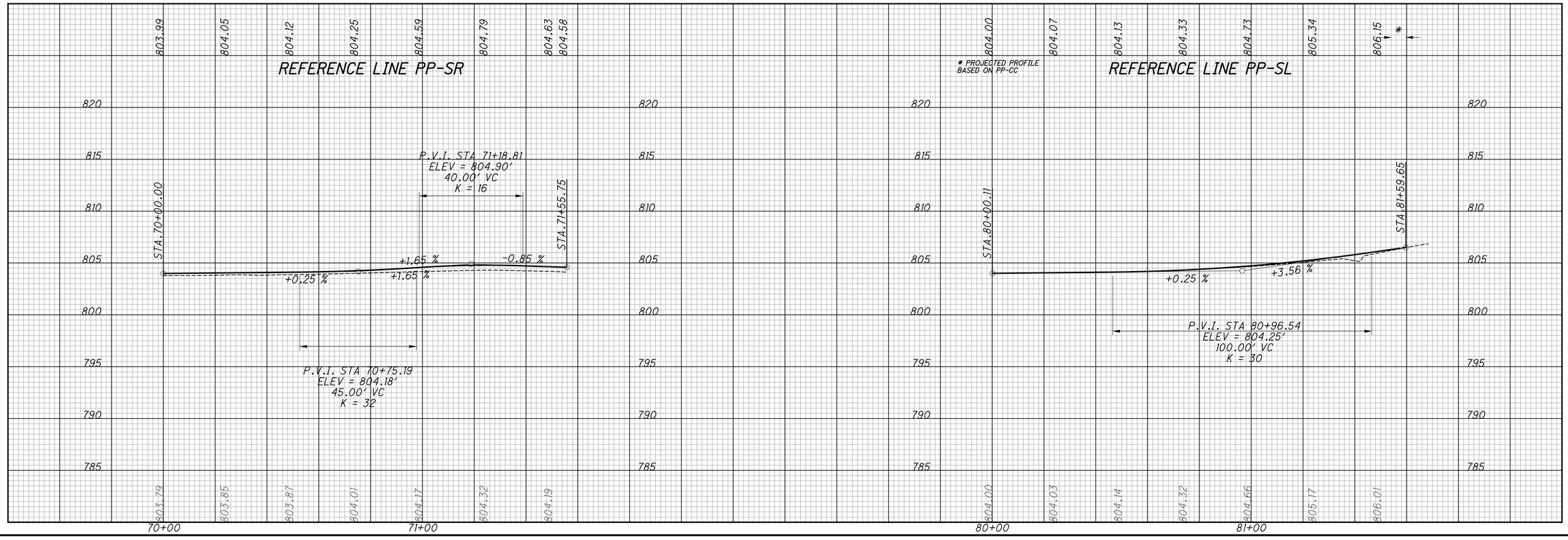

CALCULATED CML
CHECKED JS

REFERENCE LINE PROFILES - PP-SE, PP-SR & PP-SL

HAM-PLAINFIELD RD ROUNDABOUTS

158
335

Istutler
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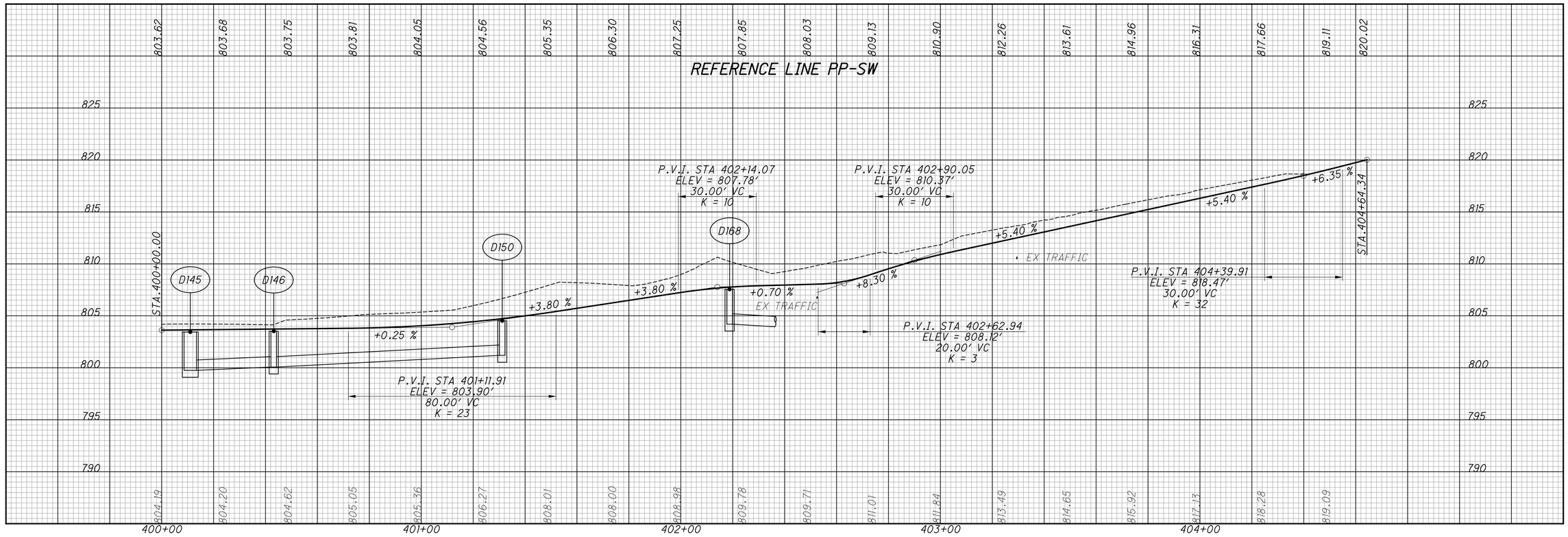

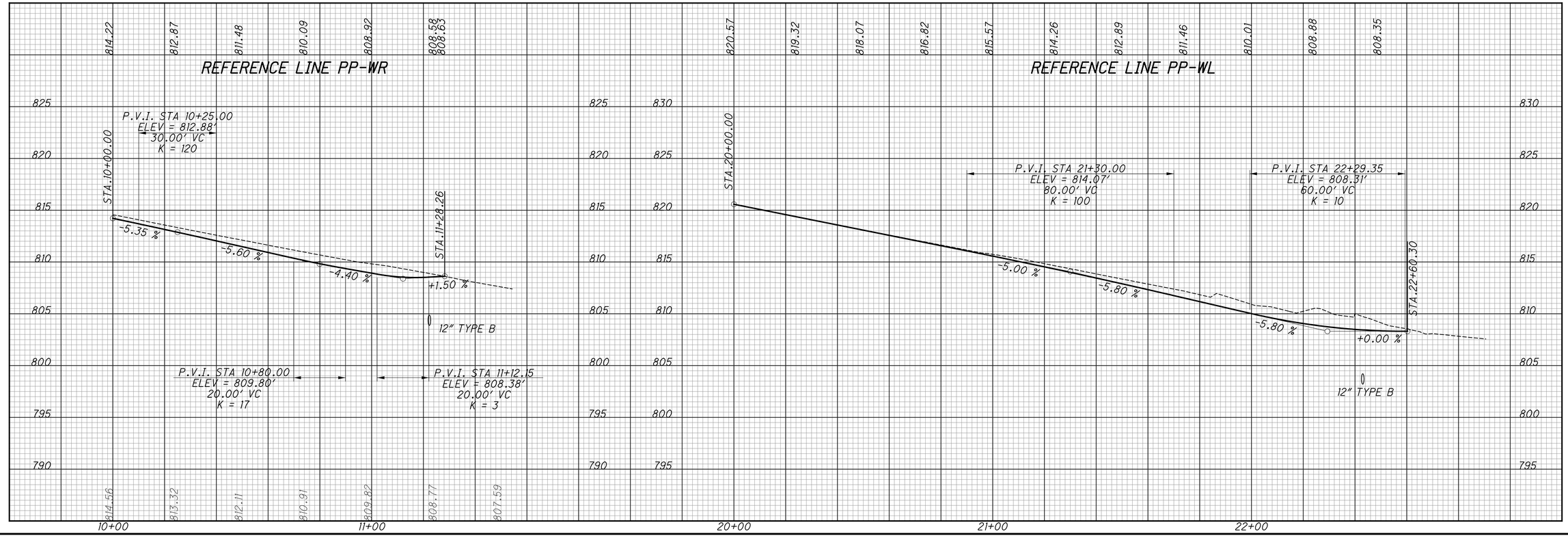

CALCULATED CML CHECKED JS

REFERENCE LINE PROFILES - PP-SW, PP-WR & PP-WL

HAM-PLAINFIELD RD ROUNDABOUTS

159 / 335

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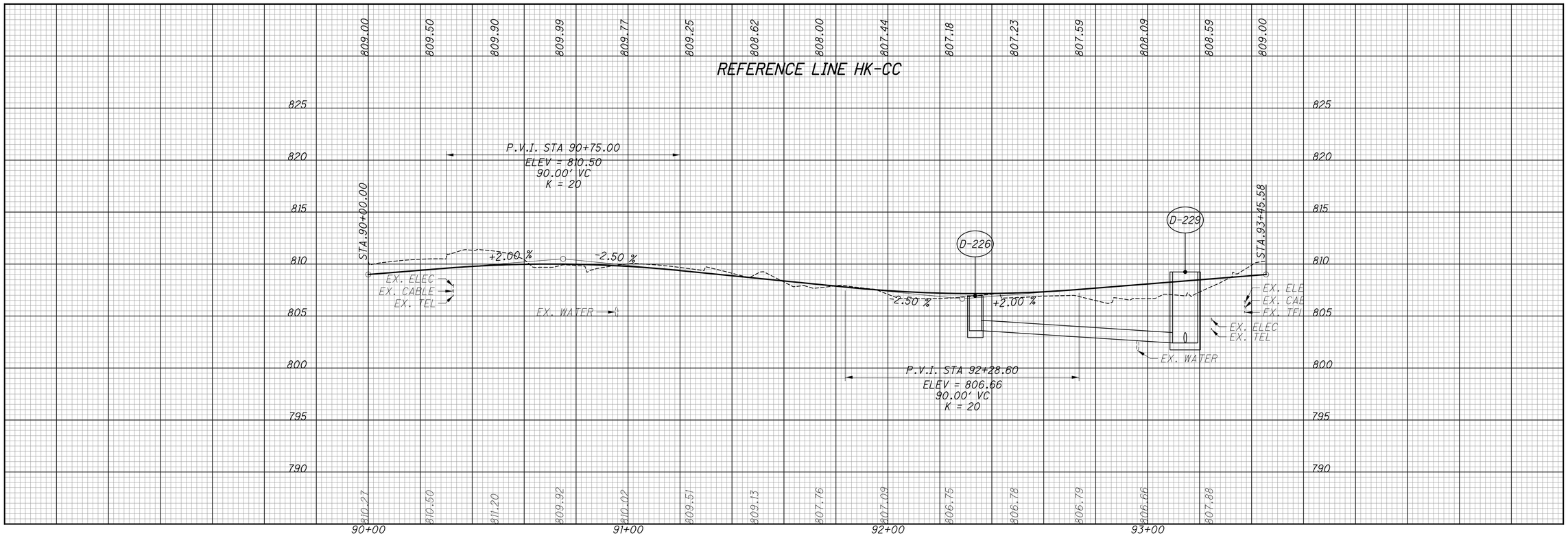

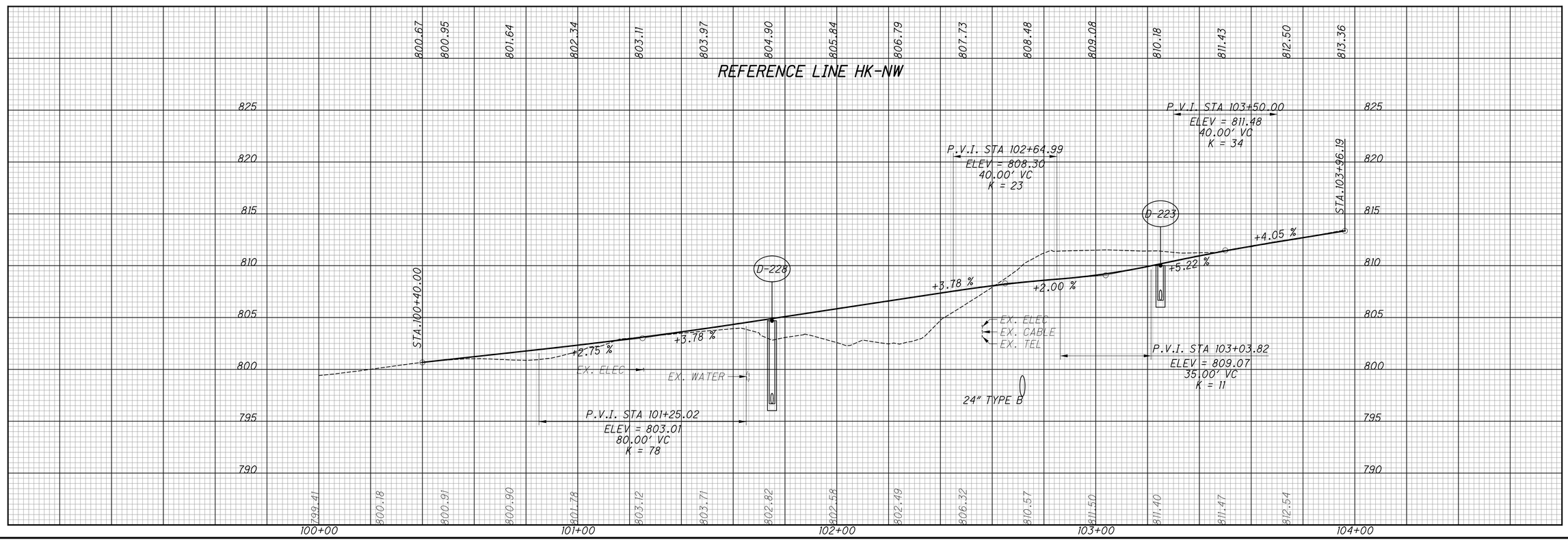

CALCULATED CML
CHECKED JS

REFERENCE LINE PROFILES - HK-CC & HK-NW

HAM-PLAINFIELD RD
ROUNDABOUTS

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1/25/2021 4:45:06 PM
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REFERENCE LINE HK-NL

* PROJECTED PROFILE BASED ON HK-CC

809.12 809.27 810.07 811.35 812.46 813.45 813.55

P.V.I. STA 30+80.00
ELEV = 811.674
40.00' VC
K = 26

STA.29+90.00
STA.31+27.40

+3.96 %
+5.50 %
+5.50 %
-0.69 %

EX. ELEC
EX. CABLE
EX. TEL

12" TYPE B

24" TYPE B

P.V.I. STA 30+30.00
ELEV = 808.92
60.00' VC
K = 10

810.10 811.43 811.58 811.33

30+00 31+00

REFERENCE LINE HK-NR

* PROJECTED PROFILE BASED ON HK-CC

809.77 809.33 809.83 811.08 812.20 813.19 813.55

P.V.I. STA 40+80.00
ELEV = 811.40
40.00' VC
K = 27

STA.39+77.88
STA.31+33.92

+3.98 %
+5.49 %
-2.50 %

EX. ELEC
EX. CABLE
EX. TEL

12" TYPE B
12" TYPE B

24" TYPE B

P.V.I. STA 40+34.50
ELEV = 808.91
50.00' VC
K = 6

811.34 811.58 811.77 811.48 812.17 813.21

40+00 41+00

REFERENCE LINE HK-NE

813.94 812.98 812.32 812.04 812.22 813.58 811.25 811.10 811.83 812.91 814.60 816.35 818.08

P.V.I. STA 201+46.00
ELEV = 809.84
20.00' VC
K = 5

P.V.I. STA 202+10.53
ELEV = 811.56
30.00' VC
K = 32

D-221 D-219 D-218

STA.200+00.00
STA.203+08.27

-5.45 %
+2.10 %
+2.10 %
-2.05 %
-2.05 %
+7.00 %
+7.00 %
+6.05 %
+8.71 %

EX. ELEC
EX. CABLE
EX. TEL

24" TYPE B

P.V.I. STA 200+94.98
ELEV = 808.77
45.00' VC
K = 6

P.V.I. STA 201+76.90
ELEV = 809.21
20.00' VC
K = 2

P.V.I. STA 202+64.86
ELEV = 814.85
50.00' VC
K = 18

813.94 812.98 812.32 812.04 812.22 813.58 811.25 811.10 811.83 812.91 814.60 816.35 818.08

200+00 201+00 202+00 203+00

REFERENCE LINE HK-EL

* PROJECTED PROFILE BASED ON HK-CC

809.93 809.85 811.14 812.65 814.16 815.83 817.70 818.37

STA.49+80.00
STA.51+59.00

-2.05 %
-1.00 %
+6.05 %
+7.51 %

12" TYPE B

EX. WATER

P.V.I. STA 51+15.00
ELEV = 815.07
30.00' VC
K = 21

P.V.I. STA 50+25.00
ELEV = 809.63
25.00' VC
K = 4

P.V.I. STA 50+05.00
ELEV = 809.82
15.00' VC
K = 14

809.49 810.62 811.72 812.93 814.39 815.97 817.75

50+00 51+00

CALCULATED CML
CHECKED JS

REFERENCE LINE PROFILES - HK-NL, HK-NR, HK-NE & HK-EL

HAM-PLAINFIELD RD
ROUNDABOUTS

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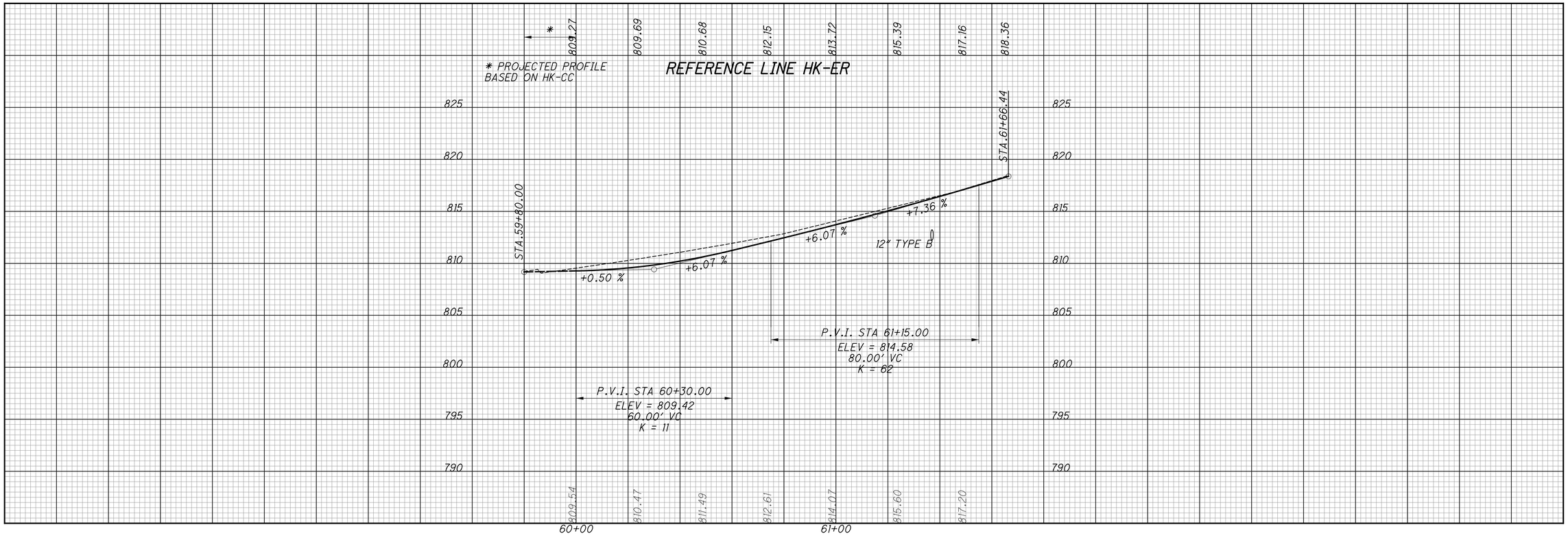

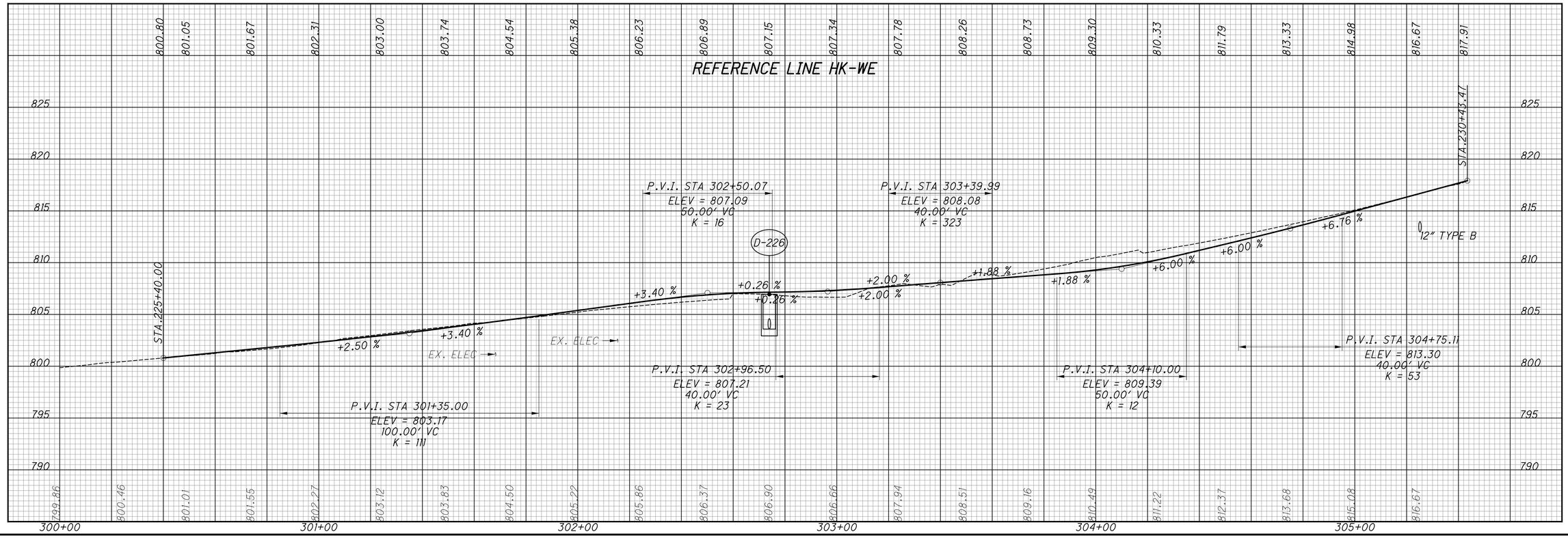

CALCULATED CML
CHECKED JS

REFERENCE LINE PROFILES - HK-ER & HK-WE

HAM-PLAINFIELD RD ROUNDABOUTS

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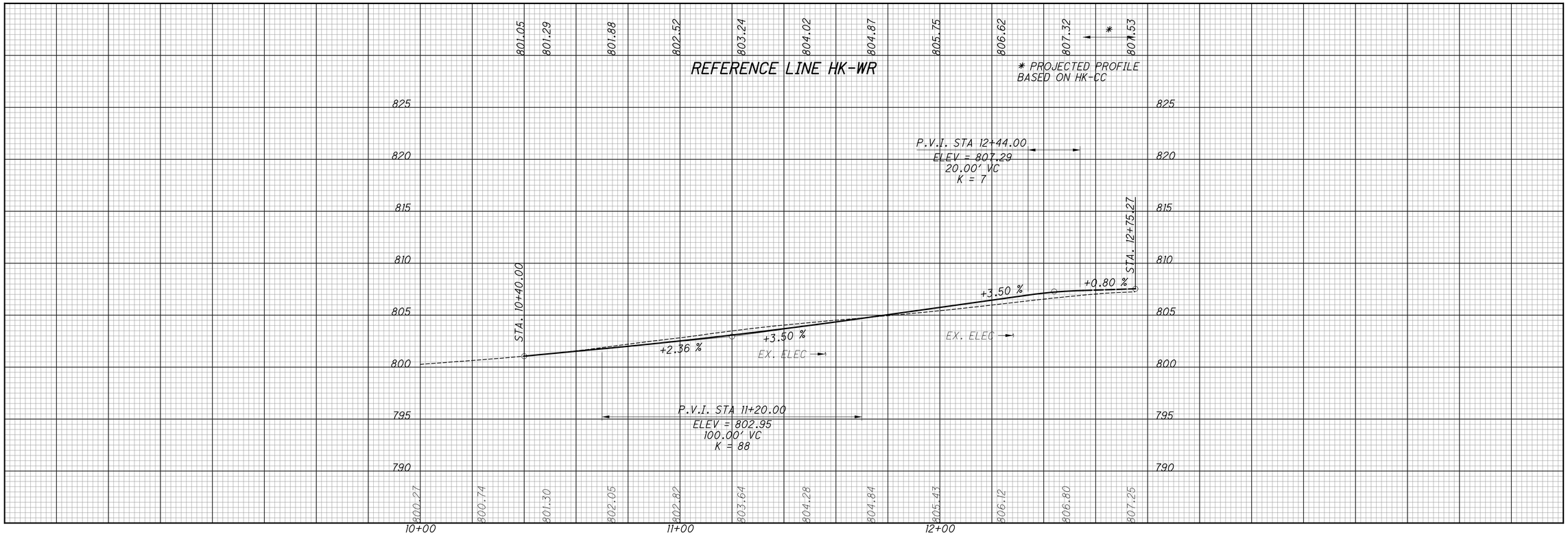

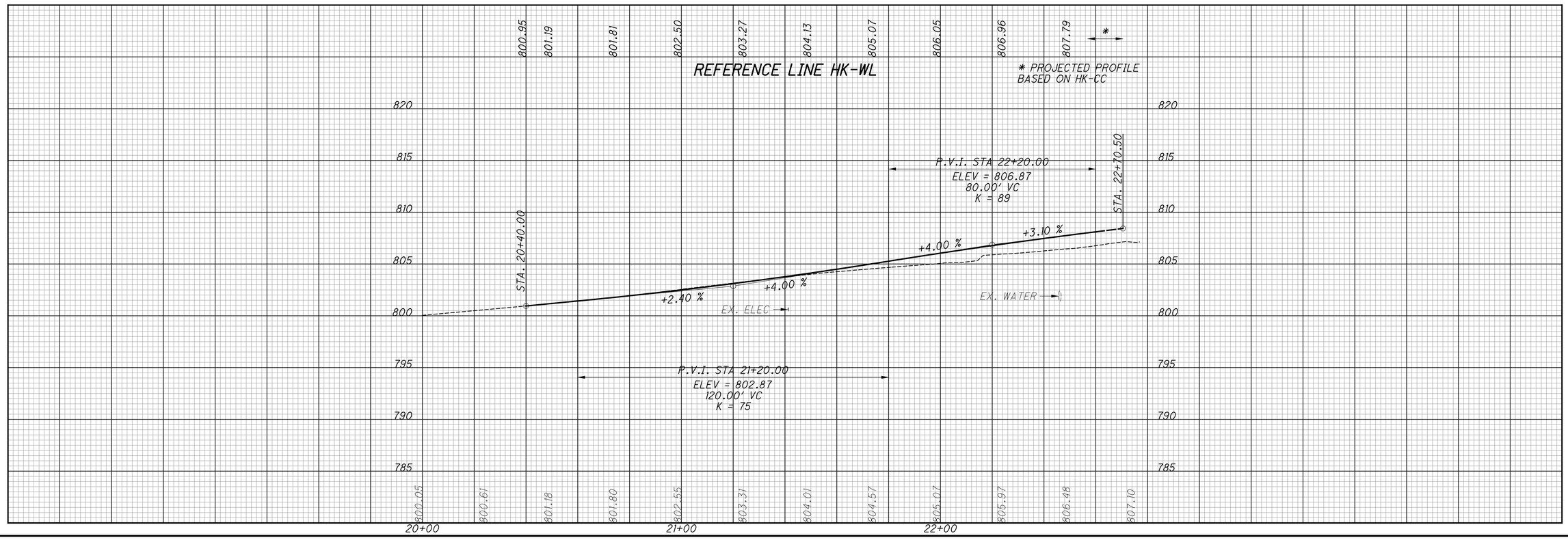

CALCULATED CML
CHECKED JS

REFERENCE LINE PROFILES - HK-WR & HK-WL

HAM-PLAINFIELD RD
ROUNDABOUTS

lstutler
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SEEDING	
END WIDTH	SQ. YDS.

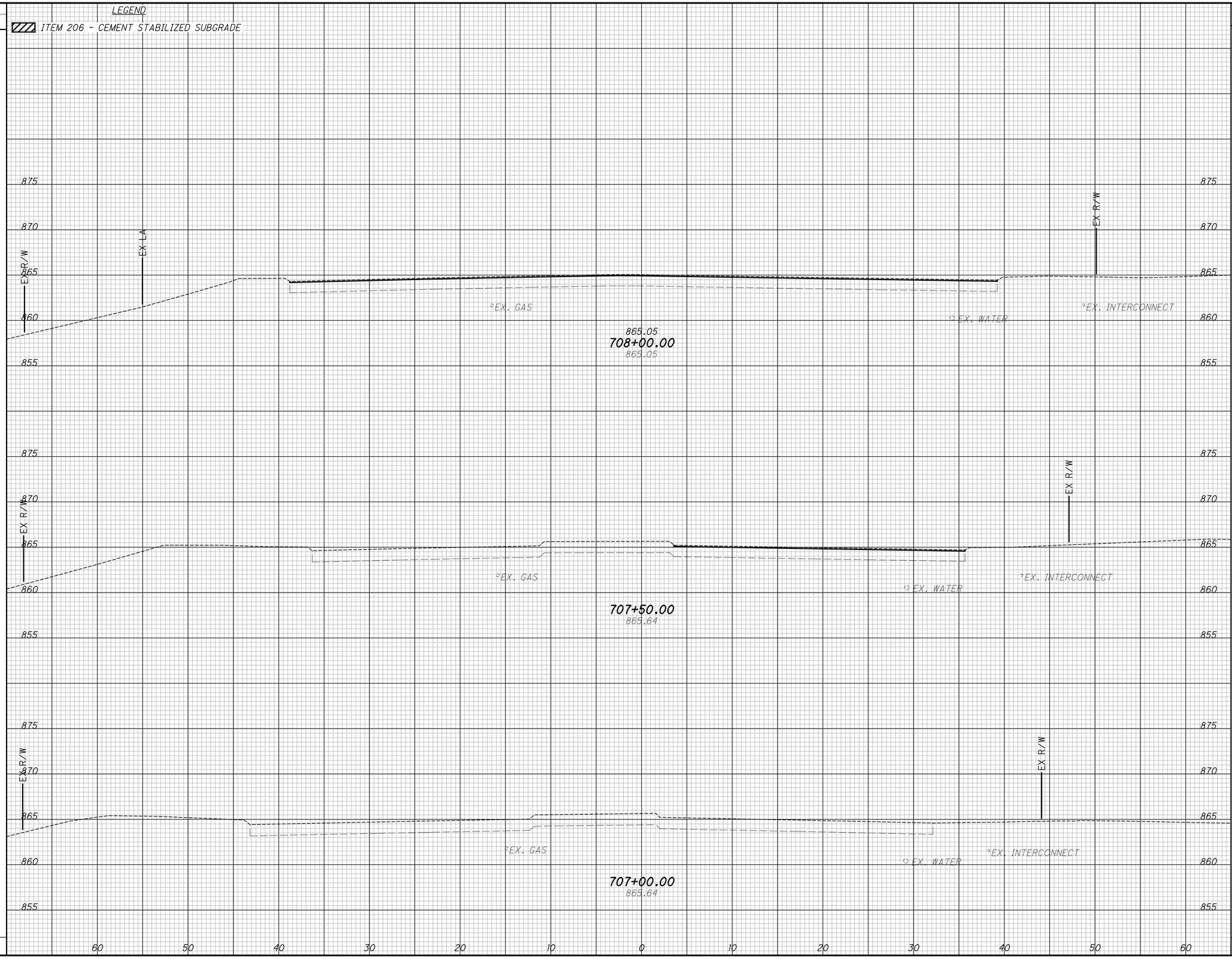
LEGEND

ITEM 206 - CEMENT STABILIZED SUBGRADE

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED LZS

CHECKED JS



CROSS SECTIONS - PLAINFIELD RD
STA. 707+00.00 TO STA. 708+00.00

HAM-PLAINFIELD RD ROUNDABOUTS

SEEDING	
END WIDTH	SQ. YDS.

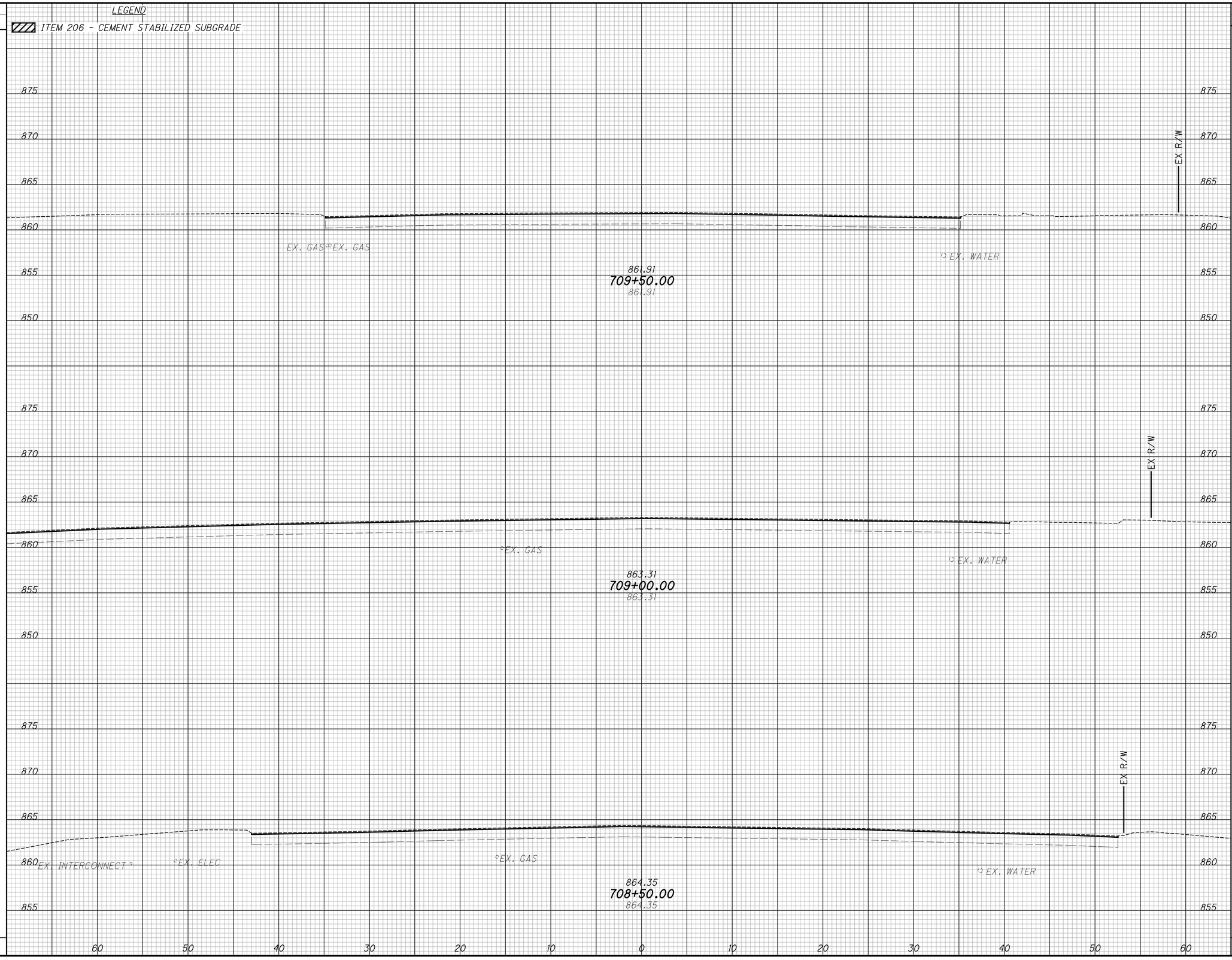
LEGEND

ITEM 206 - CEMENT STABILIZED SUBGRADE

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED LZS

CHECKED JS



CROSS SECTIONS - PLAINFIELD RD
STA. 708+50.00 TO STA. 709+50.00

HAM-PLAINFIELD RD ROUNDABOUTS

SEEDING	
END WIDTH	SQ. YDS.

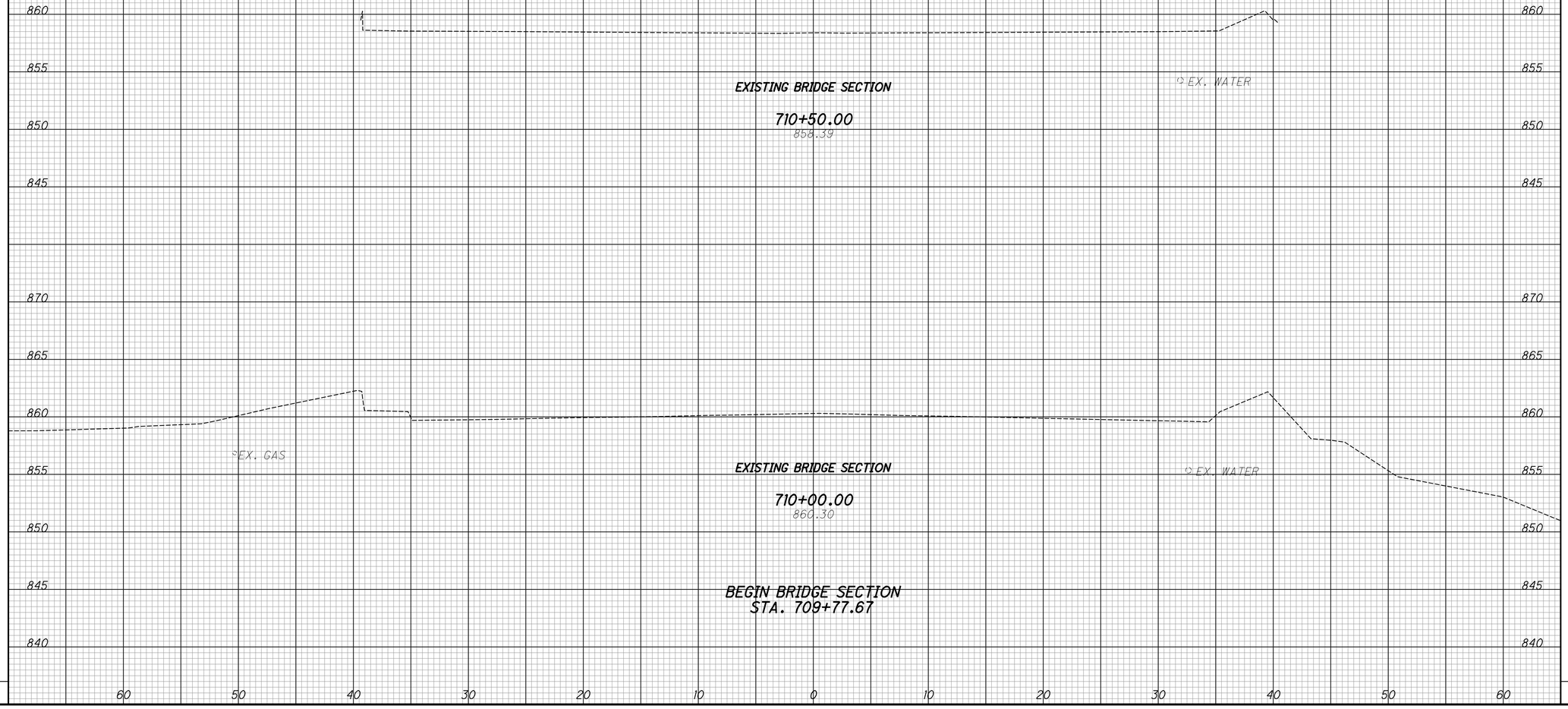
LEGEND

ITEM 206 - CEMENT STABILIZED SUBGRADE

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED LZS

CHECKED JS



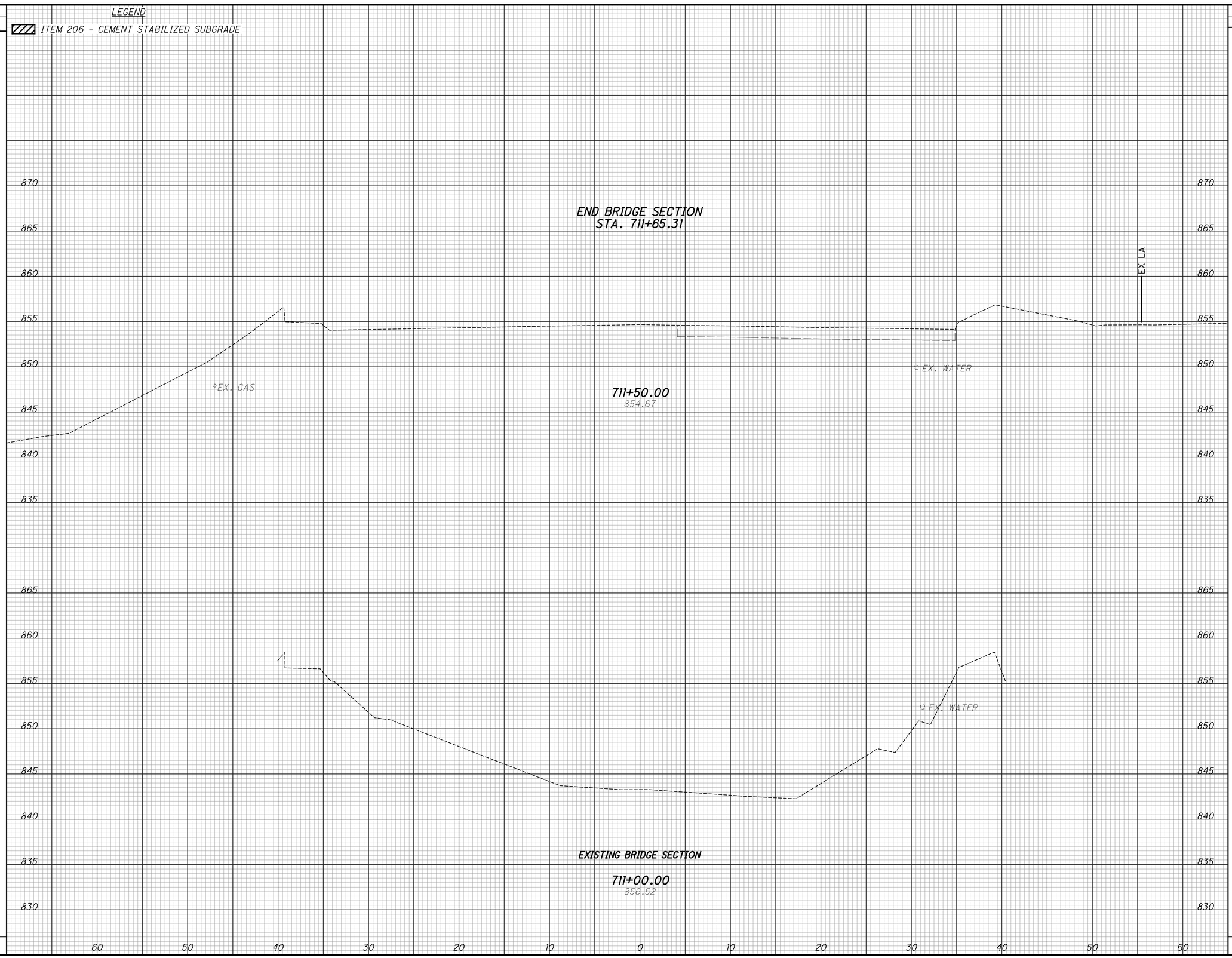
CROSS SECTIONS - PLAINFIELD RD
STA. 709+77.67 TO STA. 710+50.00

HAM-PLAINFIELD RD ROUNDABOUTS

SEEDING	
END WIDTH	SQ. YDS.

LEGEND

ITEM 206 - CEMENT STABILIZED SUBGRADE



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED LZS

CHECKED JS

CROSS SECTIONS - PLAINFIELD RD
STA. 711+00.00 TO STA. 711+65.31

HAM-PLAINFIELD RD ROUNDABOUTS

SEEDING	
END WIDTH	SQ. YDS.

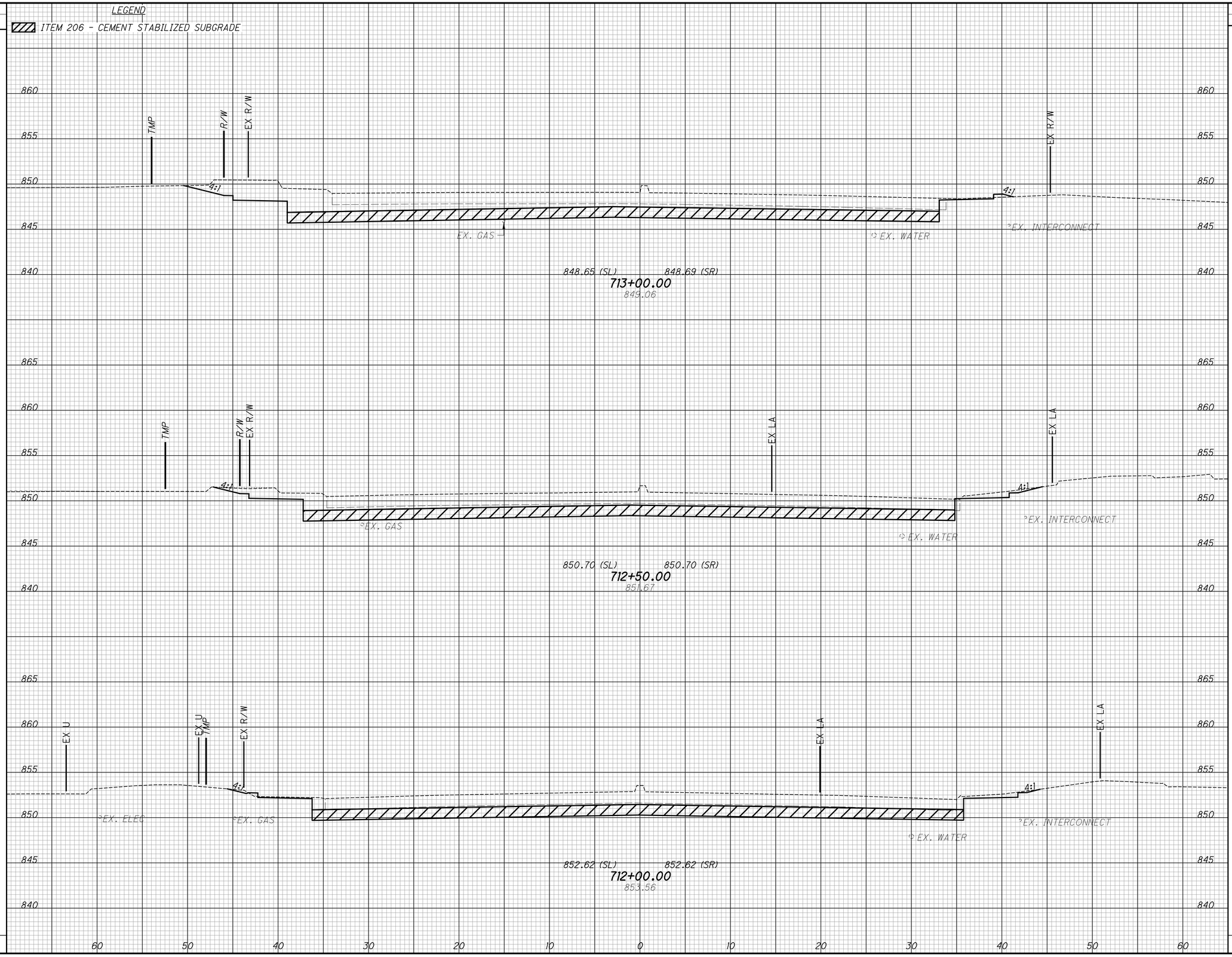
LEGEND

ITEM 206 - CEMENT STABILIZED SUBGRADE

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED LZS

CHECKED JS



CROSS SECTIONS - PLAINFIELD RD
STA. 712+00.00 TO STA. 713+00.00

HAM-PLAINFIELD RD ROUNDABOUTS

SEEDING	
END WIDTH	SQ. YDS.

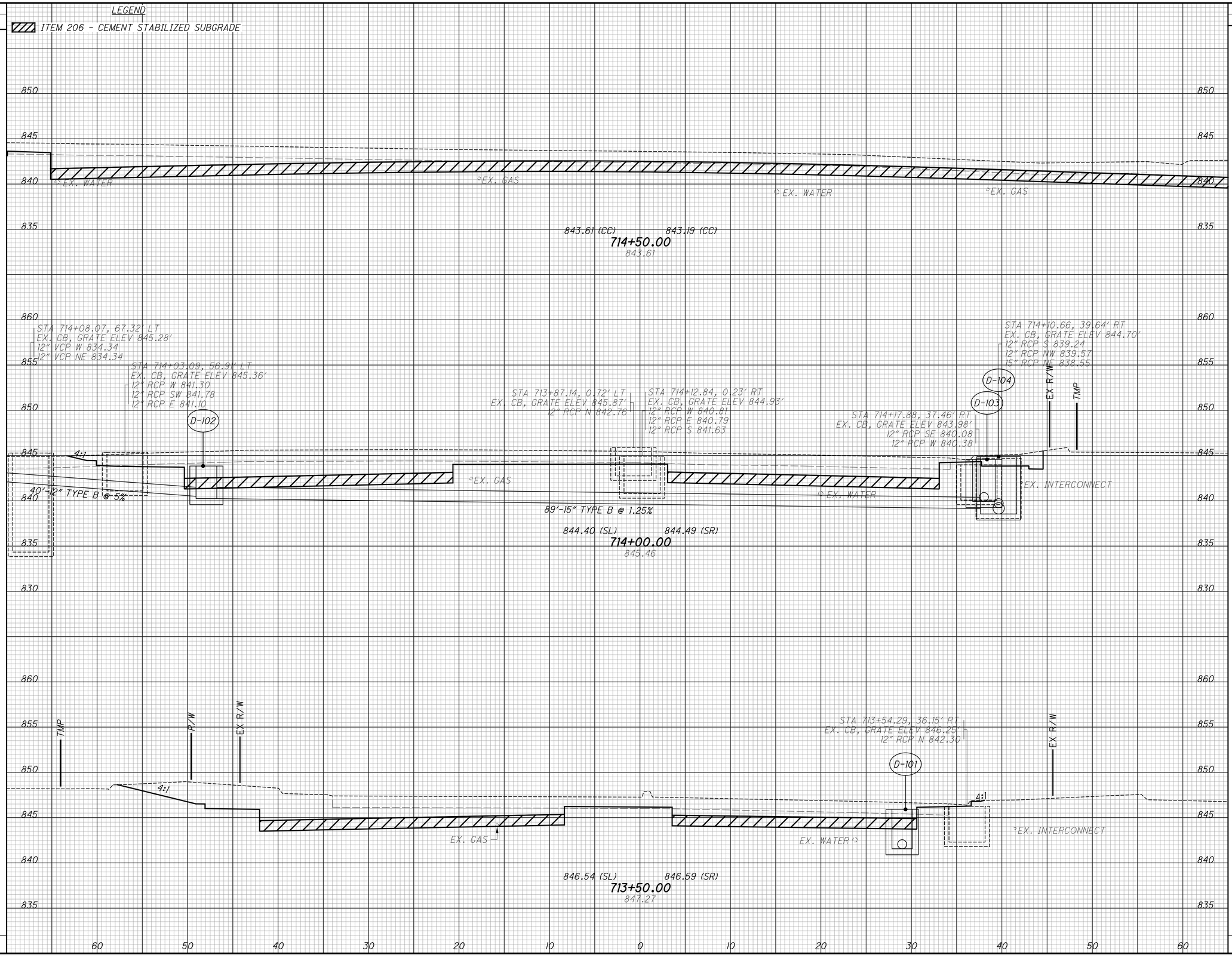
LEGEND

ITEM 206 - CEMENT STABILIZED SUBGRADE

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED LZS

CHECKED JS



CROSS SECTIONS - PLAINFIELD RD
STA. 713+50.00 TO STA. 714+50.00

HAM-PLAINFIELD RD ROUNDABOUTS

SEEDING	
END WIDTH	SQ. YDS.

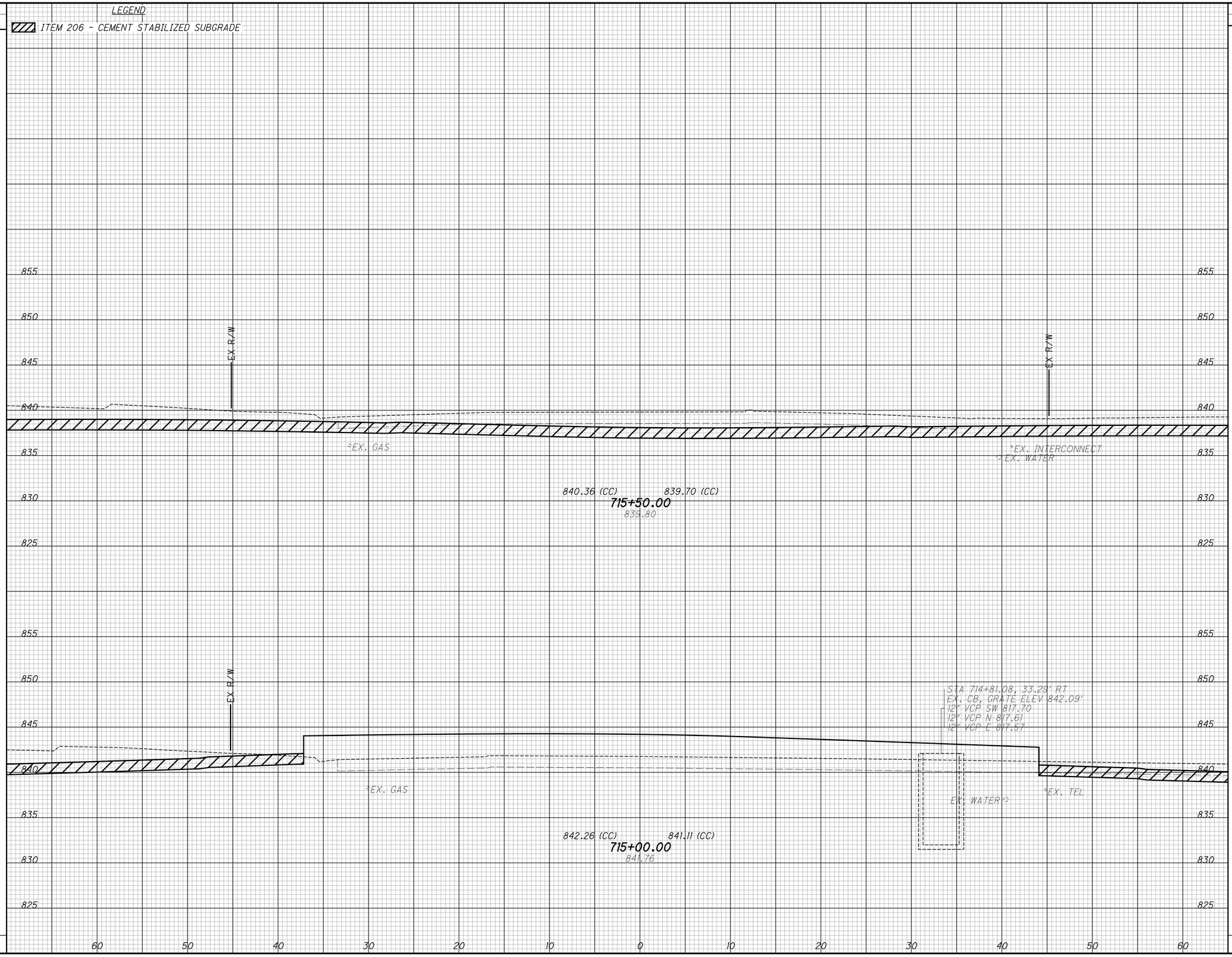
LEGEND

ITEM 206 - CEMENT STABILIZED SUBGRADE

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED LZS

CHECKED JS



CROSS SECTIONS - PLAINFIELD RD
STA. 715+00.00 TO STA. 715+50.00

HAM-PLAINFIELD RD ROUNDABOUTS

SEEDING	
END WIDTH	SQ. YDS.

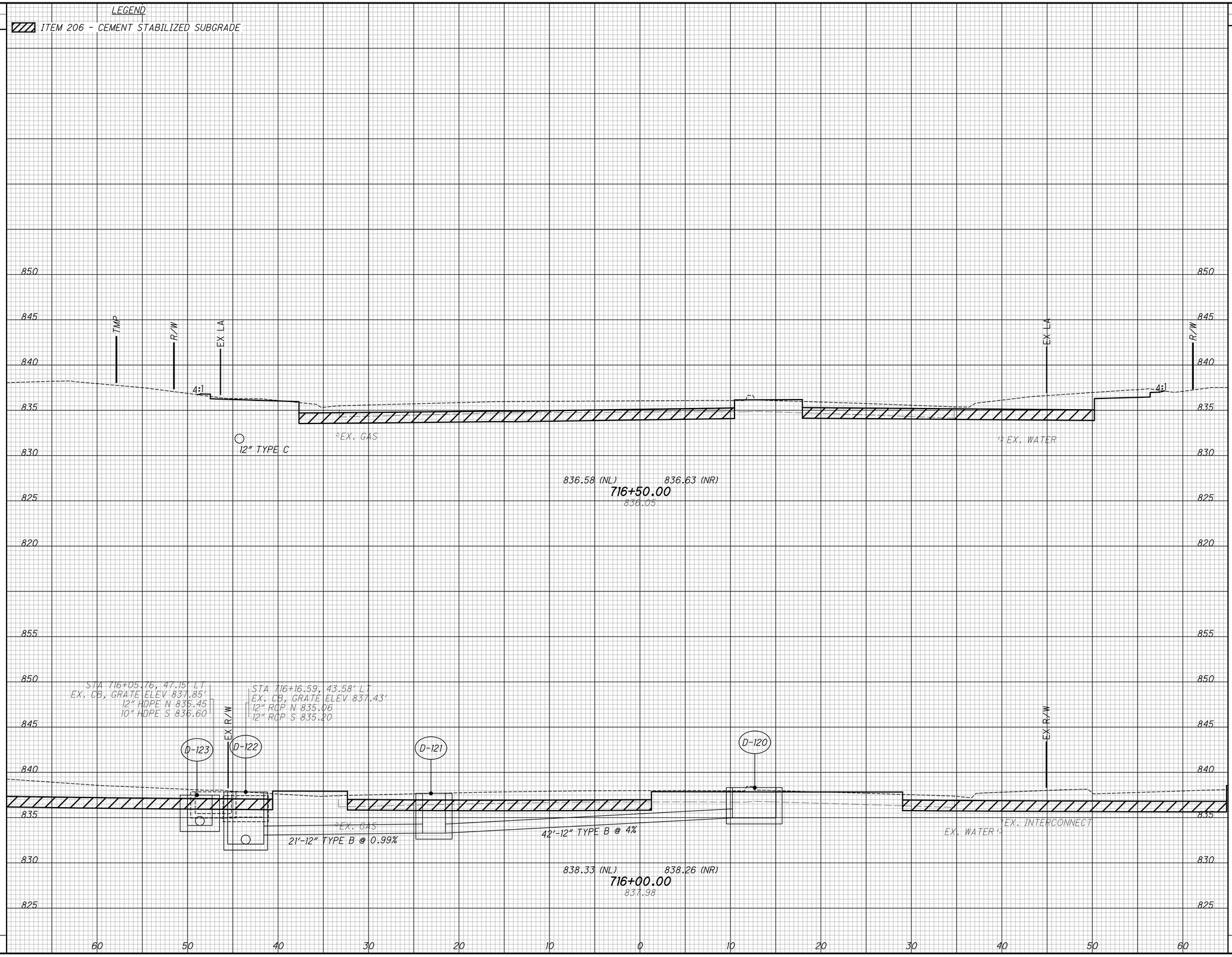
LEGEND

ITEM 206 - CEMENT STABILIZED SUBGRADE

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED LZS

CHECKED JS



CROSS SECTIONS - PLAINFIELD RD
STA. 716+00.00 TO STA. 716+50.00

HAM-PLAINFIELD RD ROUNDABOUTS

SEEDING	
END WIDTH	SQ. YDS.

LEGEND

ITEM 206 - CEMENT STABILIZED SUBGRADE

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED LZS

CHECKED JS

STA 717+44.03, 46.21' LT
EX. CB, GRATE ELEV 832.73'
12" RCP N 829.55
12" RCP S 829.37

STA 717+68.57, 39.92' LT
EX. CB, GRATE ELEV 830.91'
15" RCP N 825.80
12" RCP S 827.77
12" RCP SE 825.80

STA 717+62.20, 34.23' LT
EX. CB, GRATE ELEV 831.11'
12" RCP NW 826.24
12" RCP E 826.36

STA 717+63.35, 9.16' RT
EX. CB, GRATE ELEV 831.96'
12" RCP W 828.59
12" RCP SE 828.76

STA 717+30.63, 36.81' RT
EX. CB, GRATE ELEV 832.34'
12" RCP NW 829.83

D-124 D-128 D-127 D-126 D-125

TMP R/W EX LA 4:1

EX. GAS

44'-12" TYPE B @ 1.53%

41'-12" TYPE B @ 1.55%

EX. WATER

832.48 (NL) 832.51 (NR)
717+50.00
832.41

12" TYPE C

834.53 (NL) 834.56 (NR)
717+00.00
834.19

850 845 840 835 830 825 820 815

60 50 40 30 20 10 0 10 20 30 40 50 60

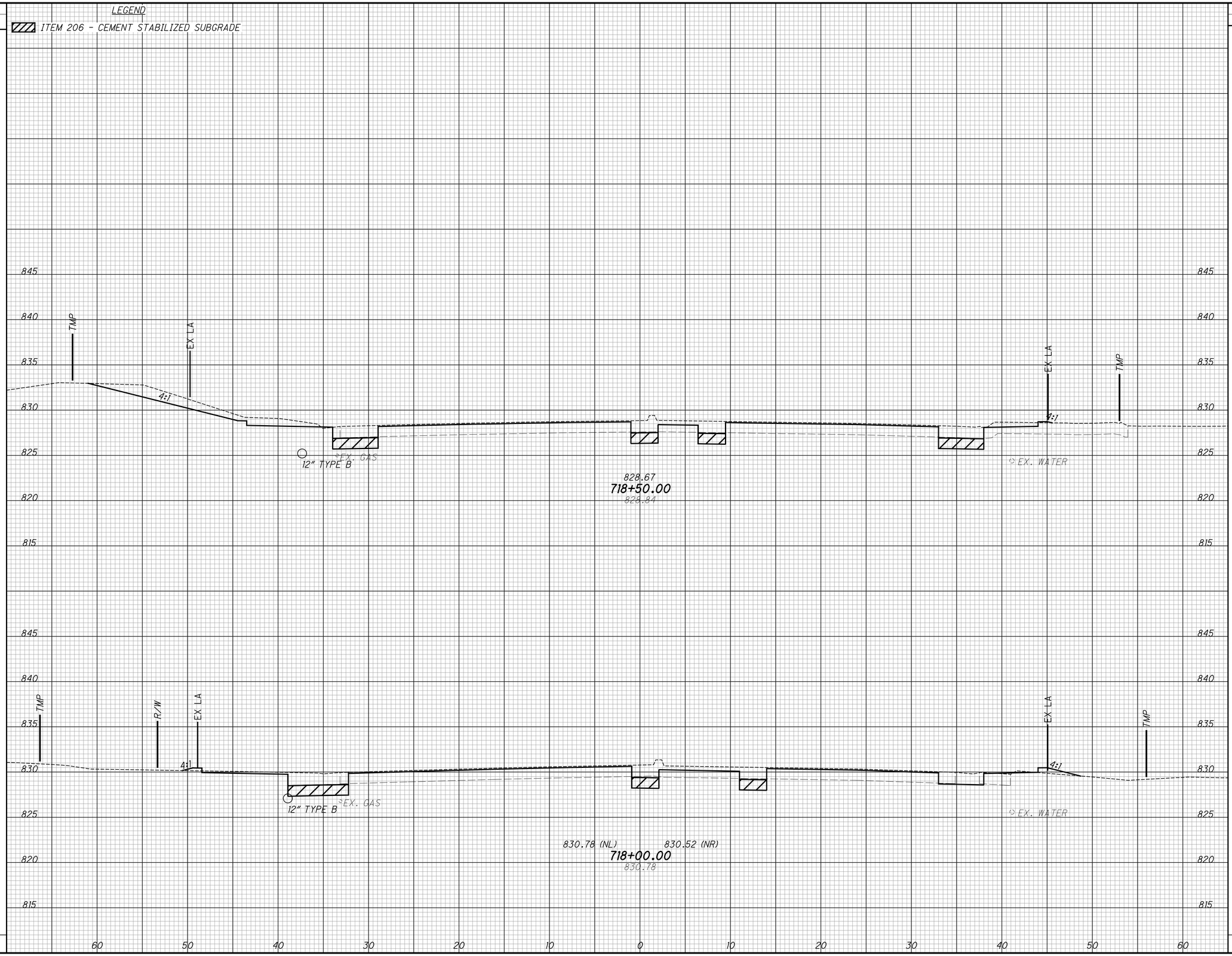
CROSS SECTIONS - PLAINFIELD RD
STA. 717+00.00 TO STA. 717+50.00

HAM-PLAINFIELD RD ROUNDABOUTS

SEEDING	
END WIDTH	SQ. YDS.

LEGEND

ITEM 206 - CEMENT STABILIZED SUBGRADE



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
LZS	JS

CROSS SECTIONS - PLAINFIELD RD
STA. 718+00.00 TO STA. 718+50.00

HAM-PLAINFIELD RD ROUNDABOUTS

SEEDING	
END WIDTH	SQ. YDS.

LEGEND

ITEM 206 - CEMENT STABILIZED SUBGRADE

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED LZS

CHECKED JS

CROSS SECTIONS - PLAINFIELD RD
STA. 719+00.00 TO STA. 719+50.00

HAM-PLAINFIELD RD ROUNDABOUTS

SEEDING	
END WIDTH	SQ. YDS.

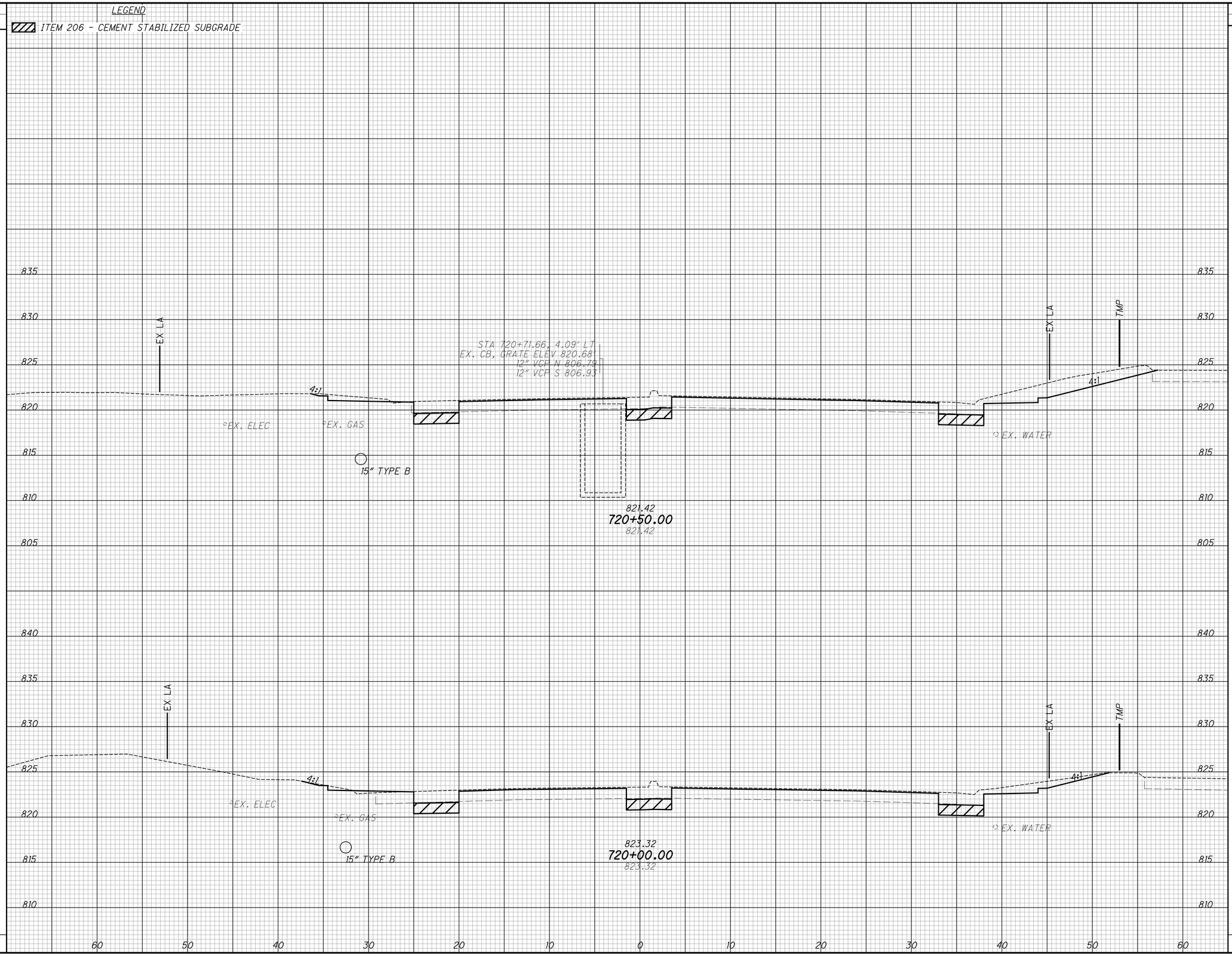
LEGEND

ITEM 206 - CEMENT STABILIZED SUBGRADE

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED LZS

CHECKED JS



CROSS SECTIONS - PLAINFIELD RD
STA. 720+00.00 TO STA. 720+50.00

HAM-PLAINFIELD RD ROUNDABOUTS

SEEDING	
END WIDTH	SQ. YDS.

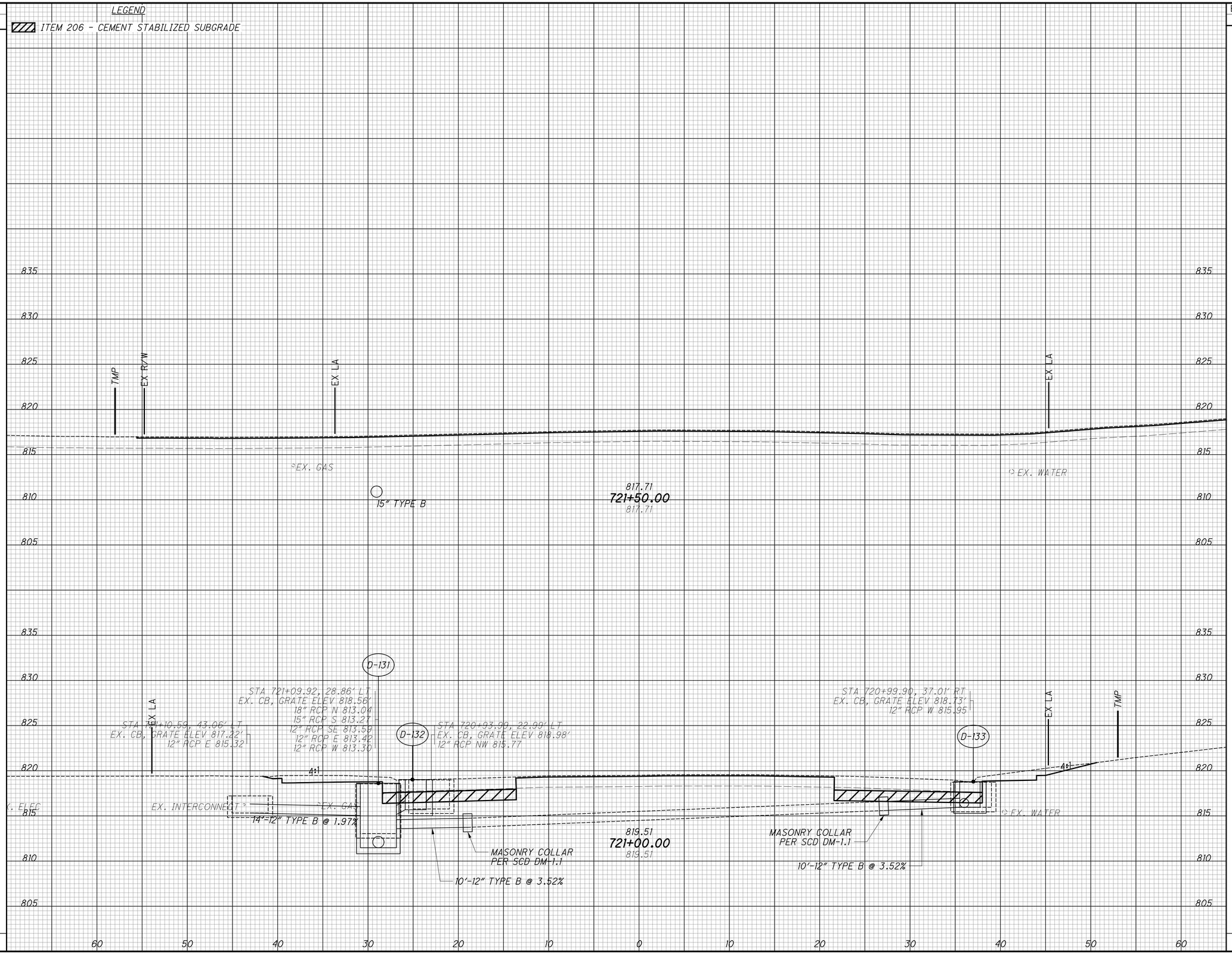
LEGEND

ITEM 206 - CEMENT STABILIZED SUBGRADE

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED LZS

CHECKED JS



CROSS SECTIONS - PLAINFIELD RD
STA. 721+00.00 TO STA. 721+50.00

HAM-PLAINFIELD RD ROUNDABOUTS

SEEDING	
END WIDTH	SQ. YDS.

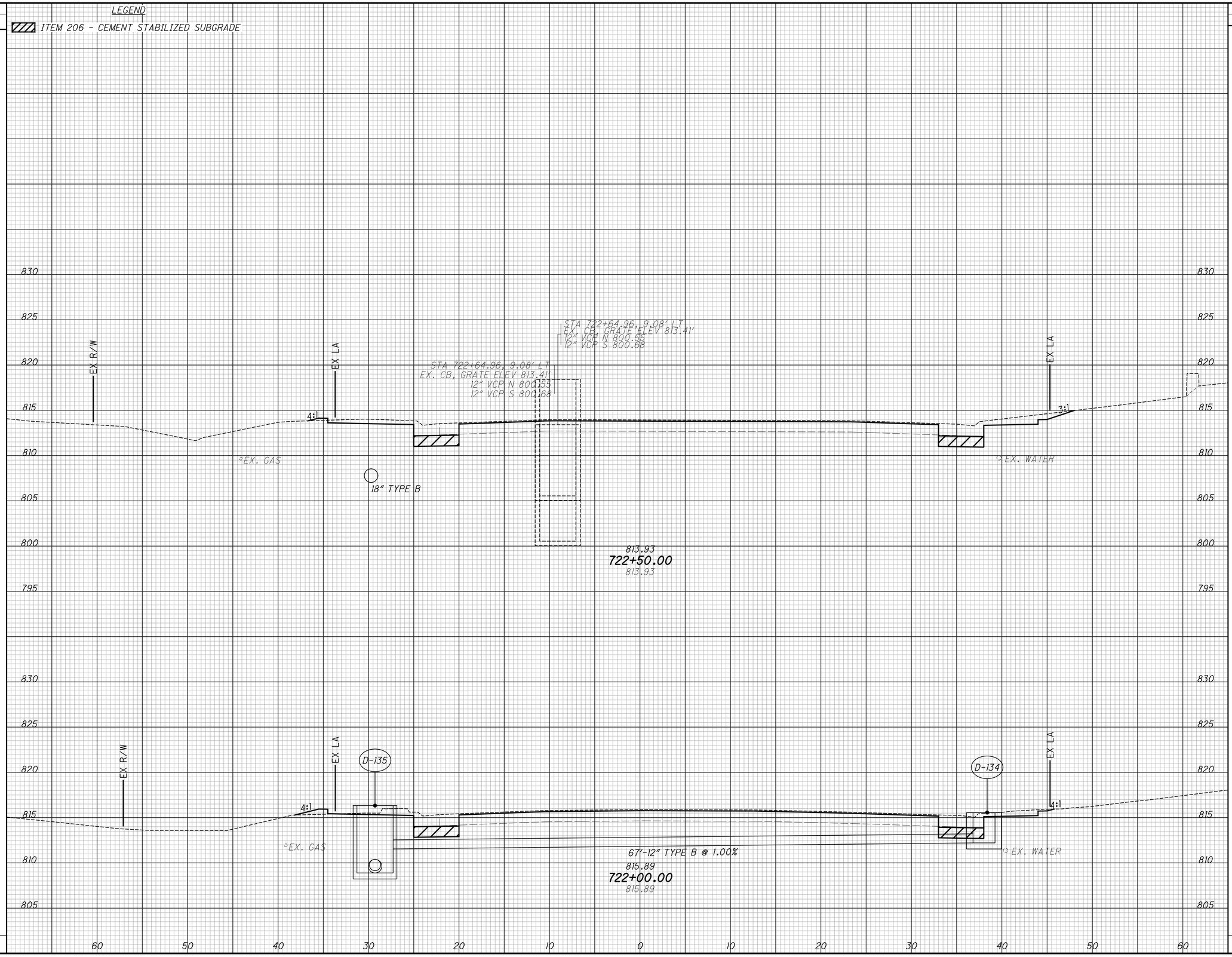
LEGEND

ITEM 206 - CEMENT STABILIZED SUBGRADE

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED LZS

CHECKED JS



CROSS SECTIONS - PLAINFIELD RD
STA. 722+00.00 TO STA. 722+50.00

HAM-PLAINFIELD RD ROUNDABOUTS

SEEDING	
END WIDTH	SQ. YDS.

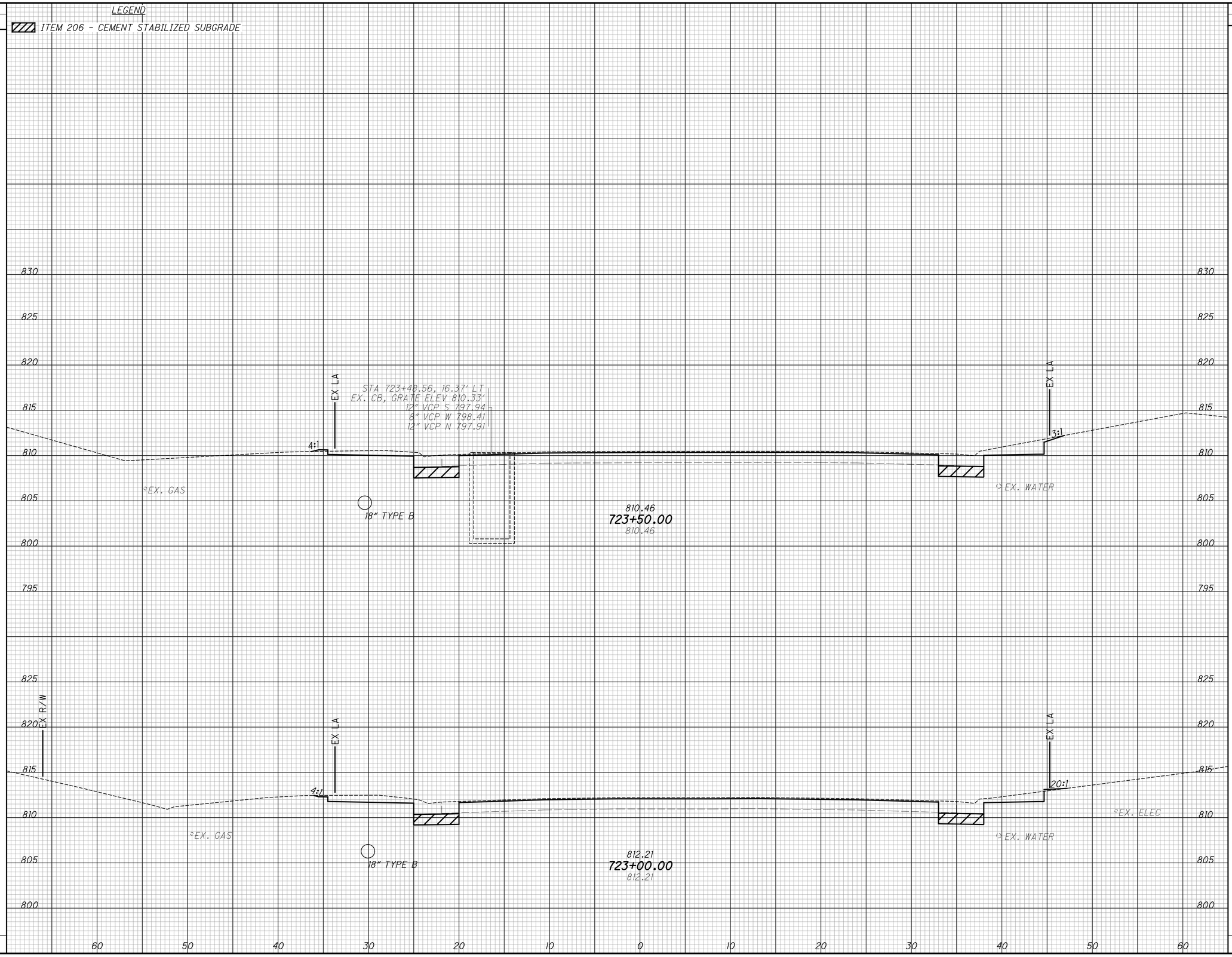
LEGEND

ITEM 206 - CEMENT STABILIZED SUBGRADE

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED LZS

CHECKED JS



CROSS SECTIONS - PLAINFIELD RD
STA. 723+00.00 TO STA. 723+50.00

HAM-PLAINFIELD RD ROUNDABOUTS

SEEDING	
END WIDTH	SQ. YDS.

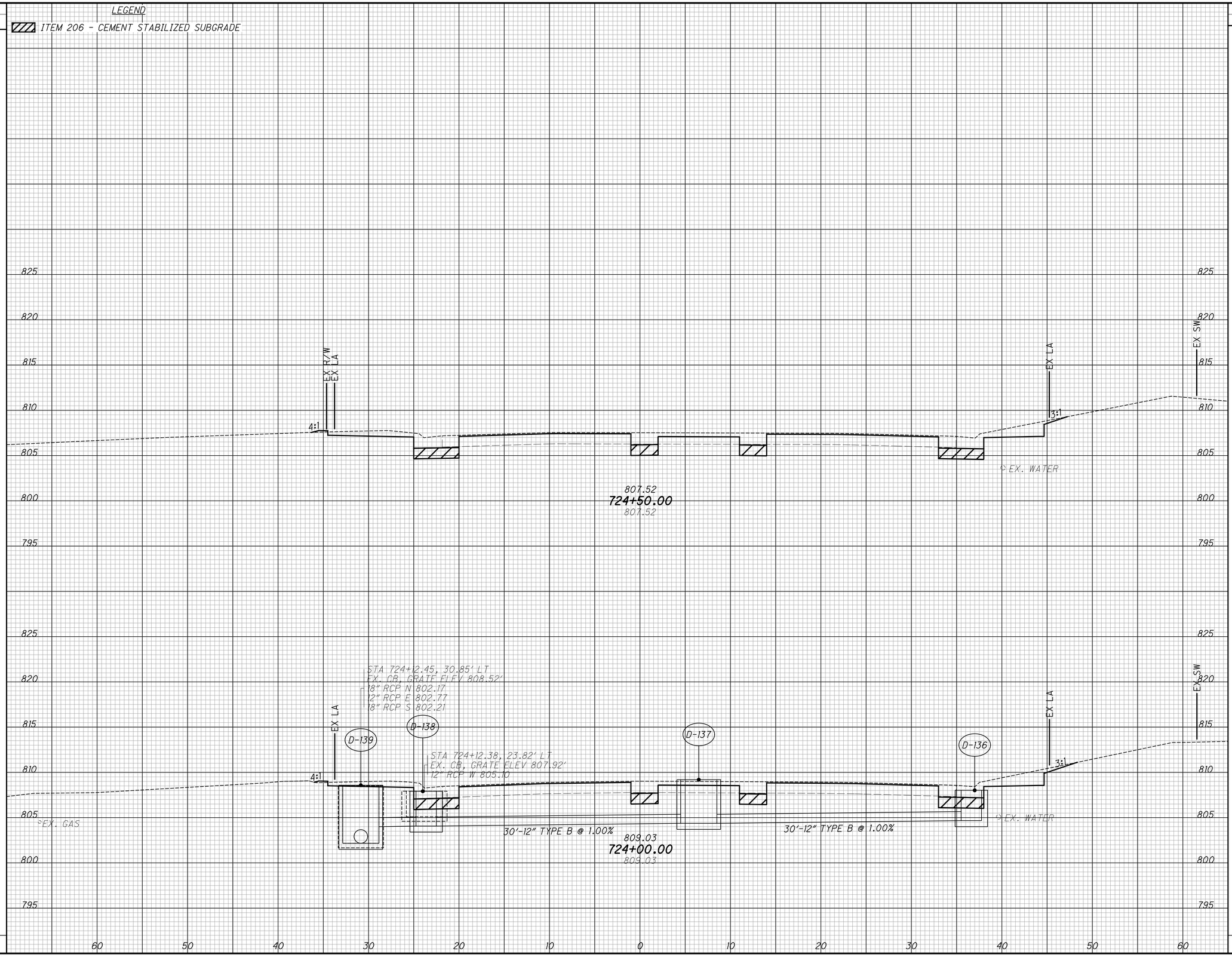
LEGEND

ITEM 206 - CEMENT STABILIZED SUBGRADE

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED LZS

CHECKED JS



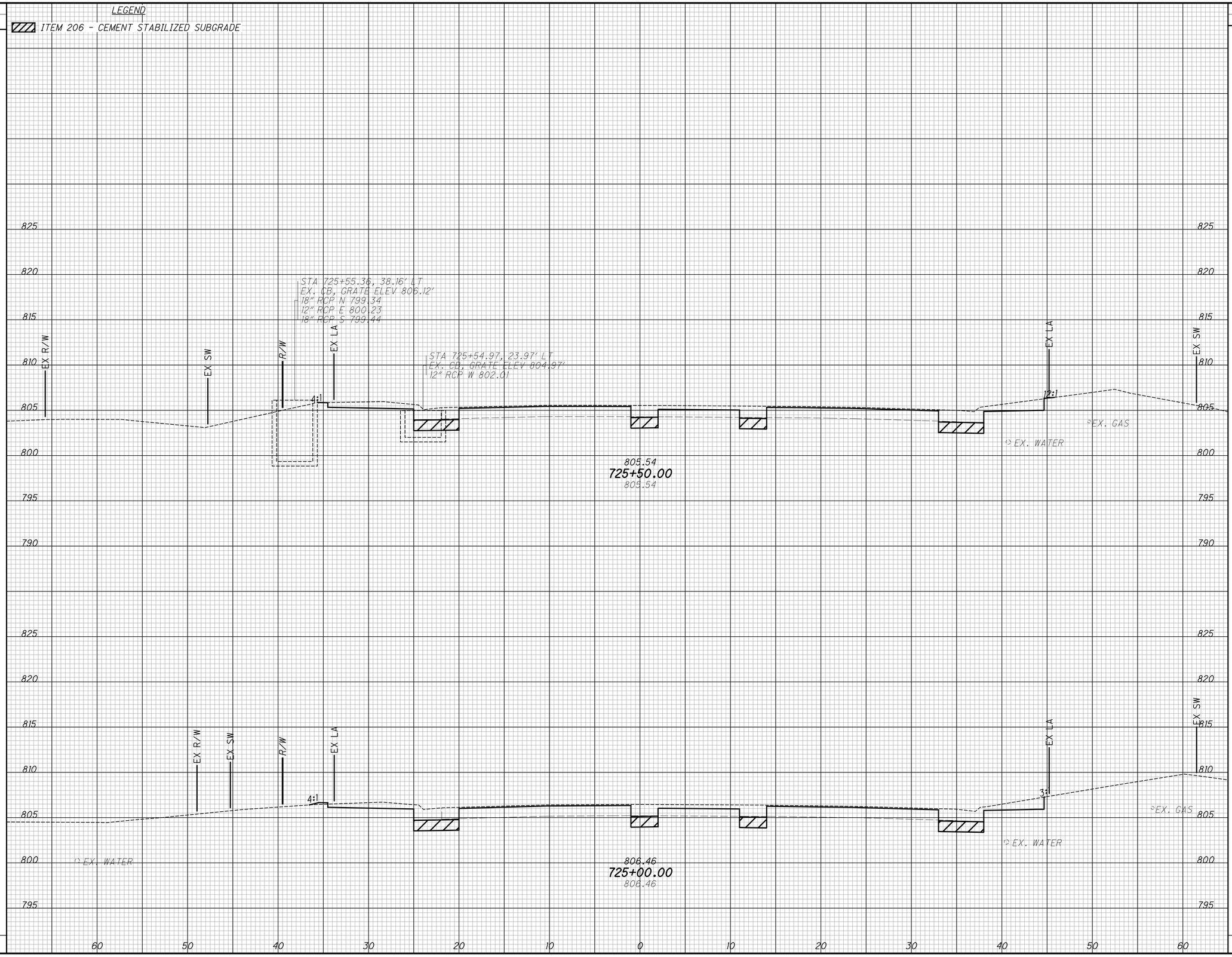
CROSS SECTIONS - PLAINFIELD RD
STA. 724+50.00 TO STA. 724+50.00

HAM-PLAINFIELD RD ROUNDABOUTS

SEEDING	
END WIDTH	SQ. YDS.

LEGEND

ITEM 206 - CEMENT STABILIZED SUBGRADE

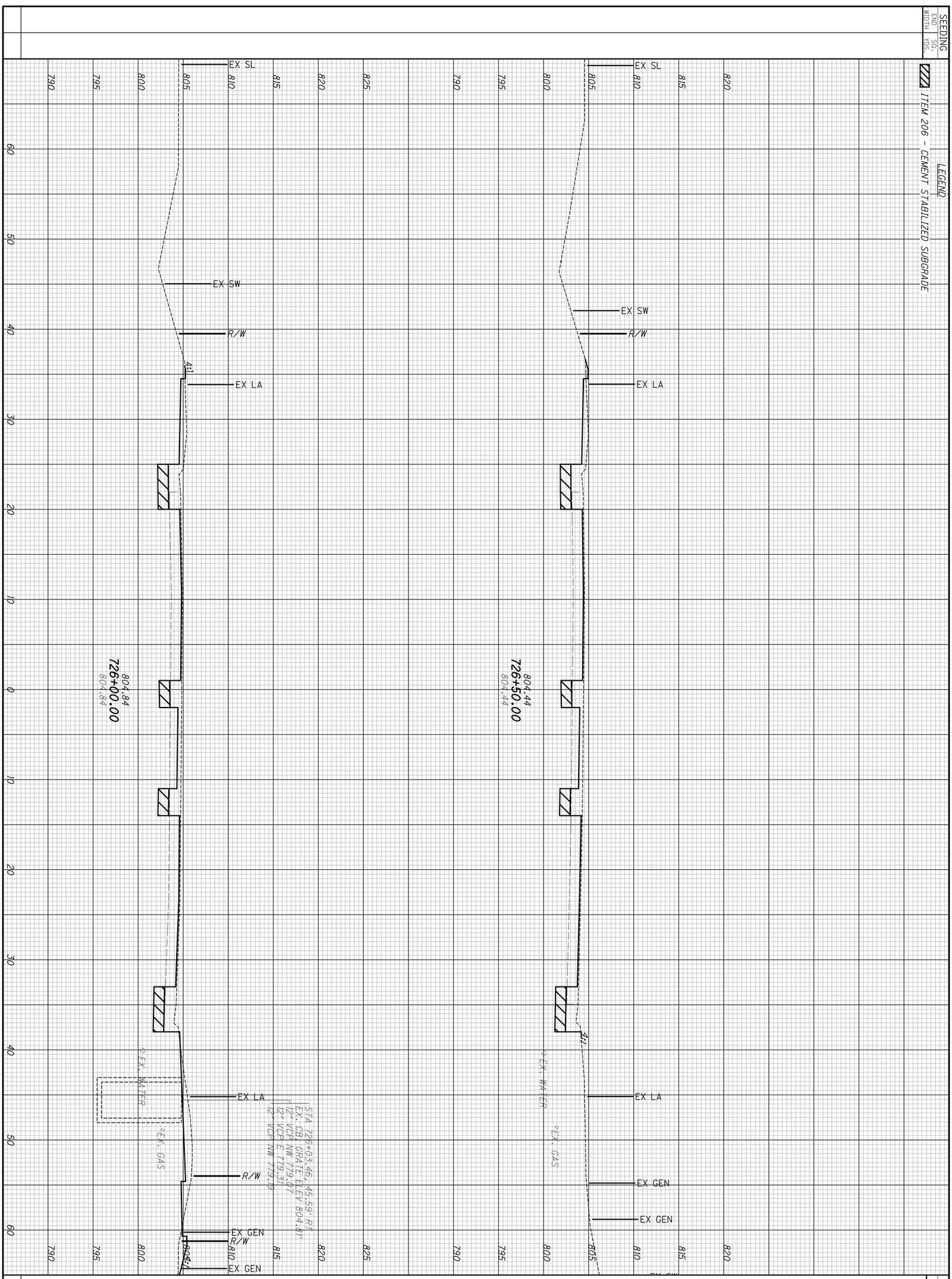


END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
LZS	JS

CROSS SECTIONS - PLAINFIELD RD STA. 725+00.00 TO STA. 725+50.00

HAM-PLAINFIELD RD ROUNDABOUTS



181
335

HAM-PLAINFIELD RD
ROUNDABOUTS

CROSS SECTIONS - PLAINFIELD RD
STA. 726+00.00 TO STA. 726+50.00

CALCULATED LZS
CHECKED JS

SEEDING	
END WIDTH	SQ. YDS.

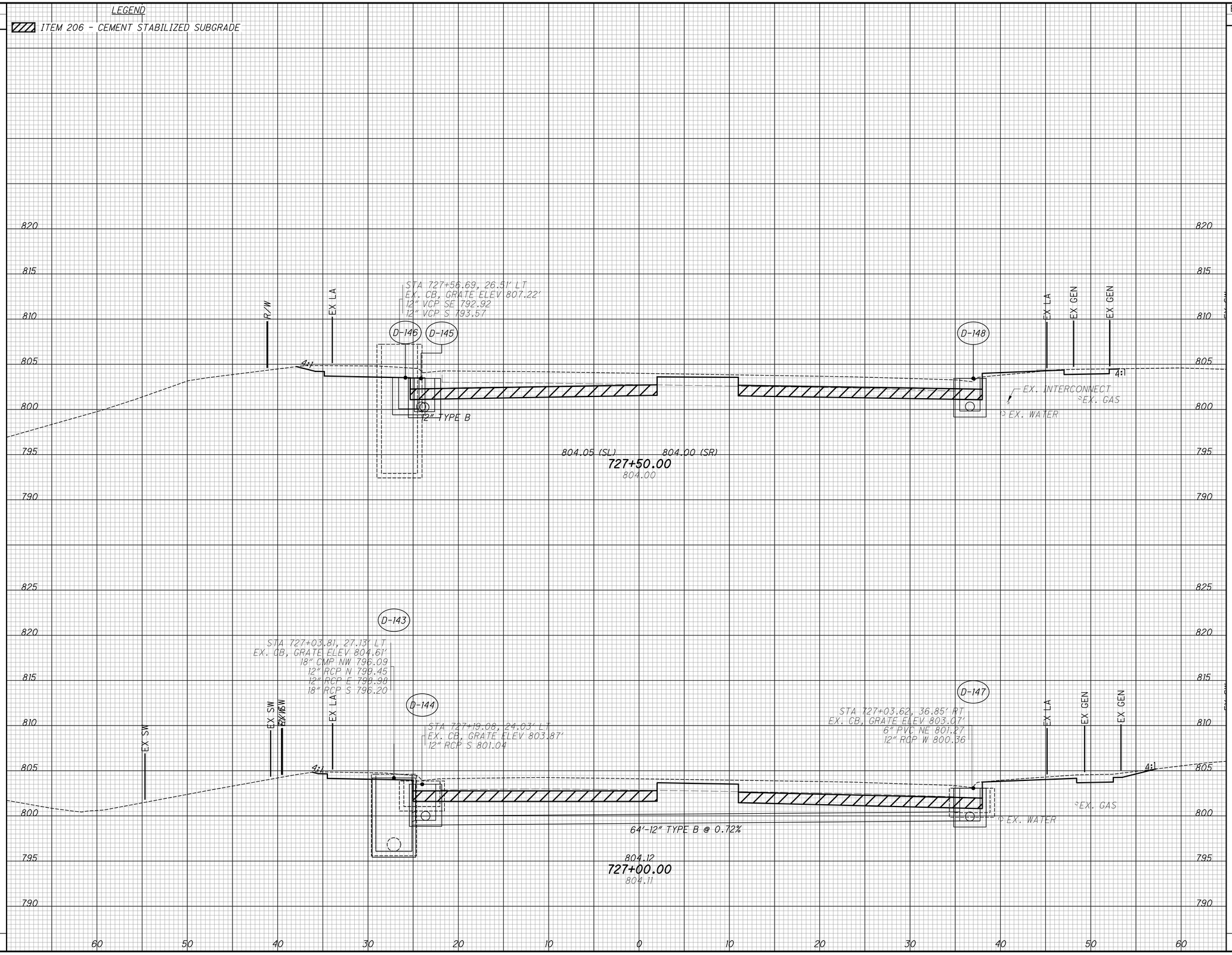
LEGEND

ITEM 206 - CEMENT STABILIZED SUBGRADE

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED LZS

CHECKED JS



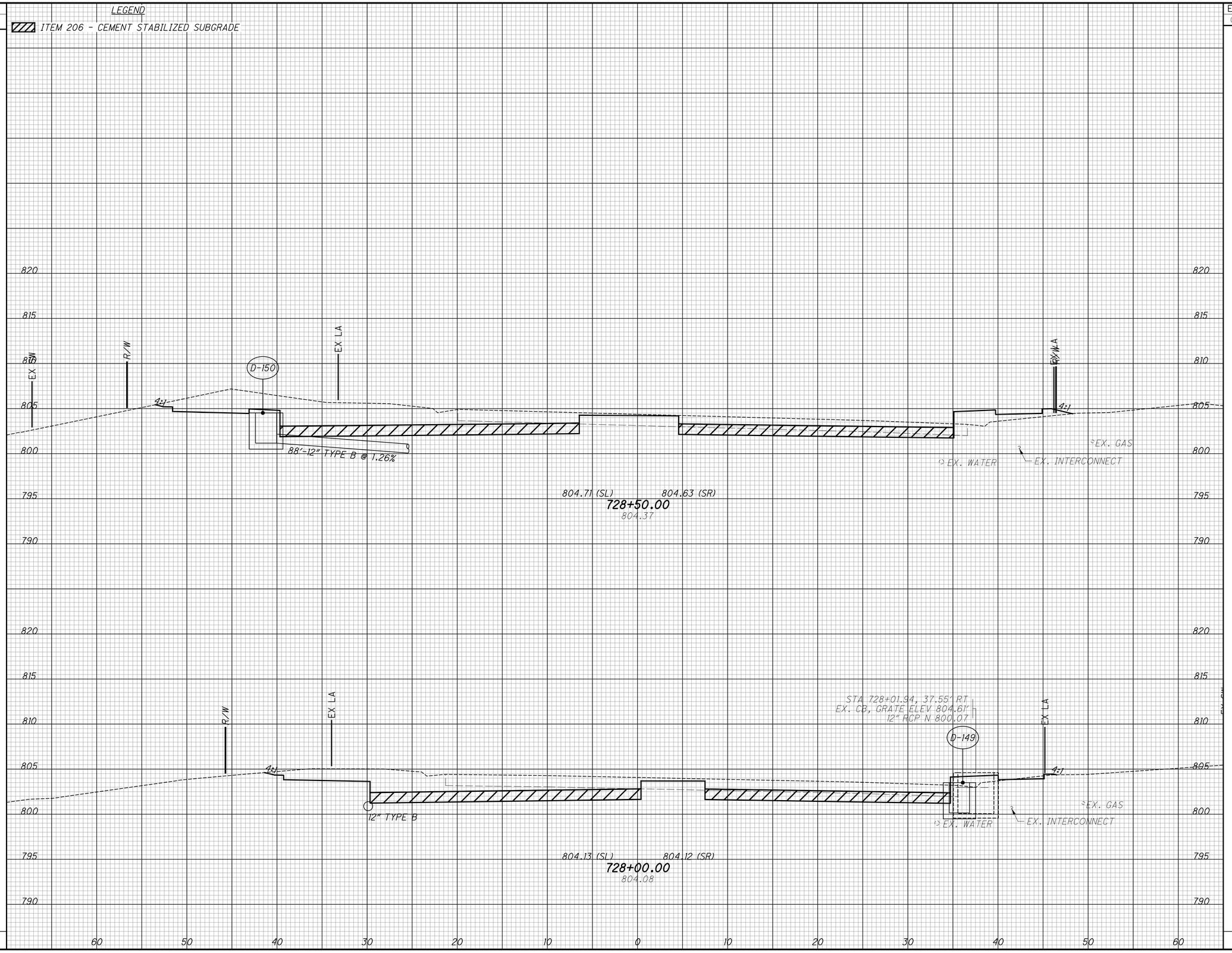
CROSS SECTIONS - PLAINFIELD RD
STA. 727+00.00 TO STA. 727+50.00

HAM-PLAINFIELD RD ROUNDABOUTS

SEEDING	
END WIDTH	SQ. YDS.

LEGEND

ITEM 206 - CEMENT STABILIZED SUBGRADE



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
LZS	JS

CROSS SECTIONS - PLAINFIELD RD
STA. 728+00.00 TO STA. 728+50.00

HAM-PLAINFIELD RD ROUNDABOUTS

SEEDING	
END WIDTH	SQ. YDS.

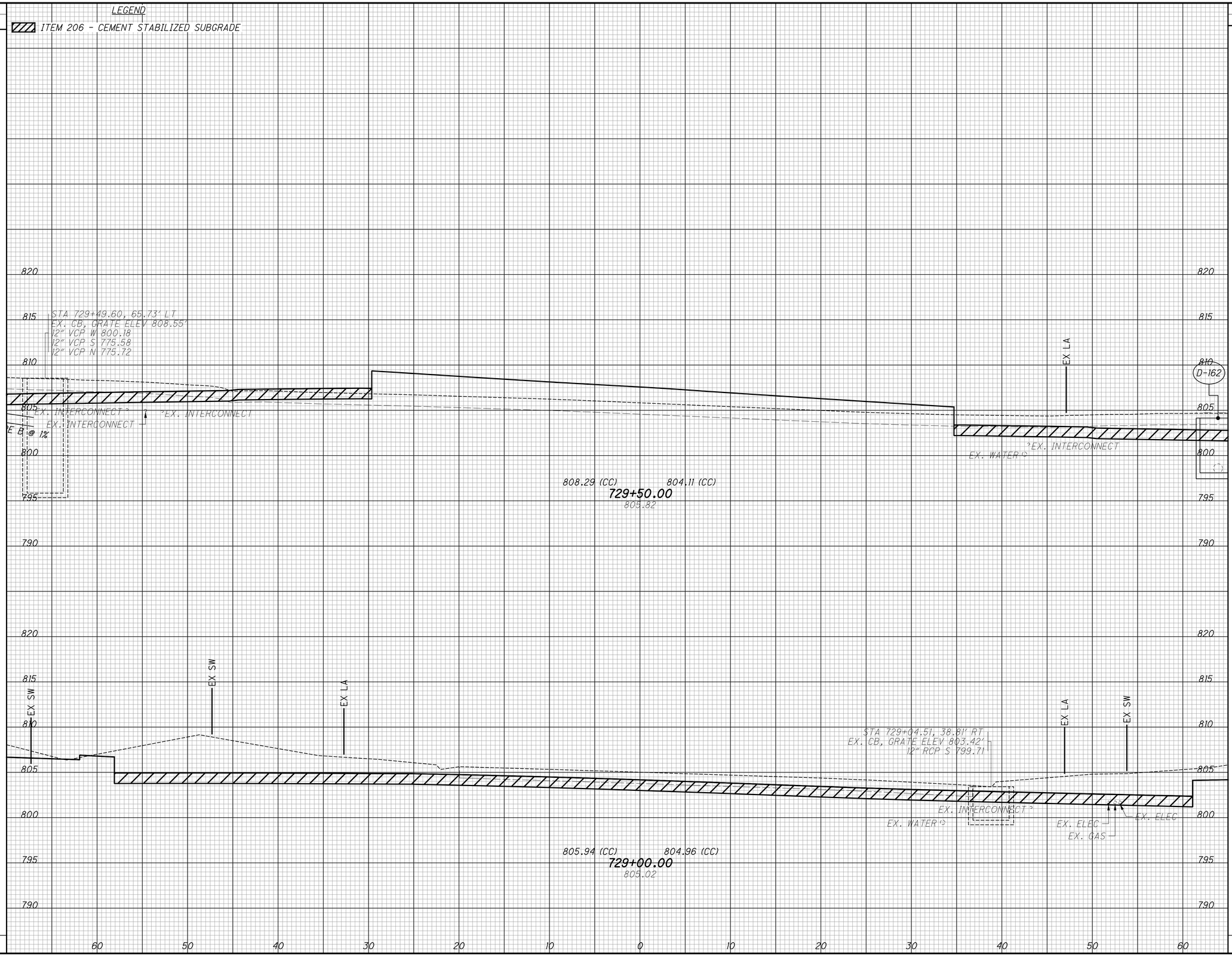
LEGEND

ITEM 206 - CEMENT STABILIZED SUBGRADE

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED LZS

CHECKED JS



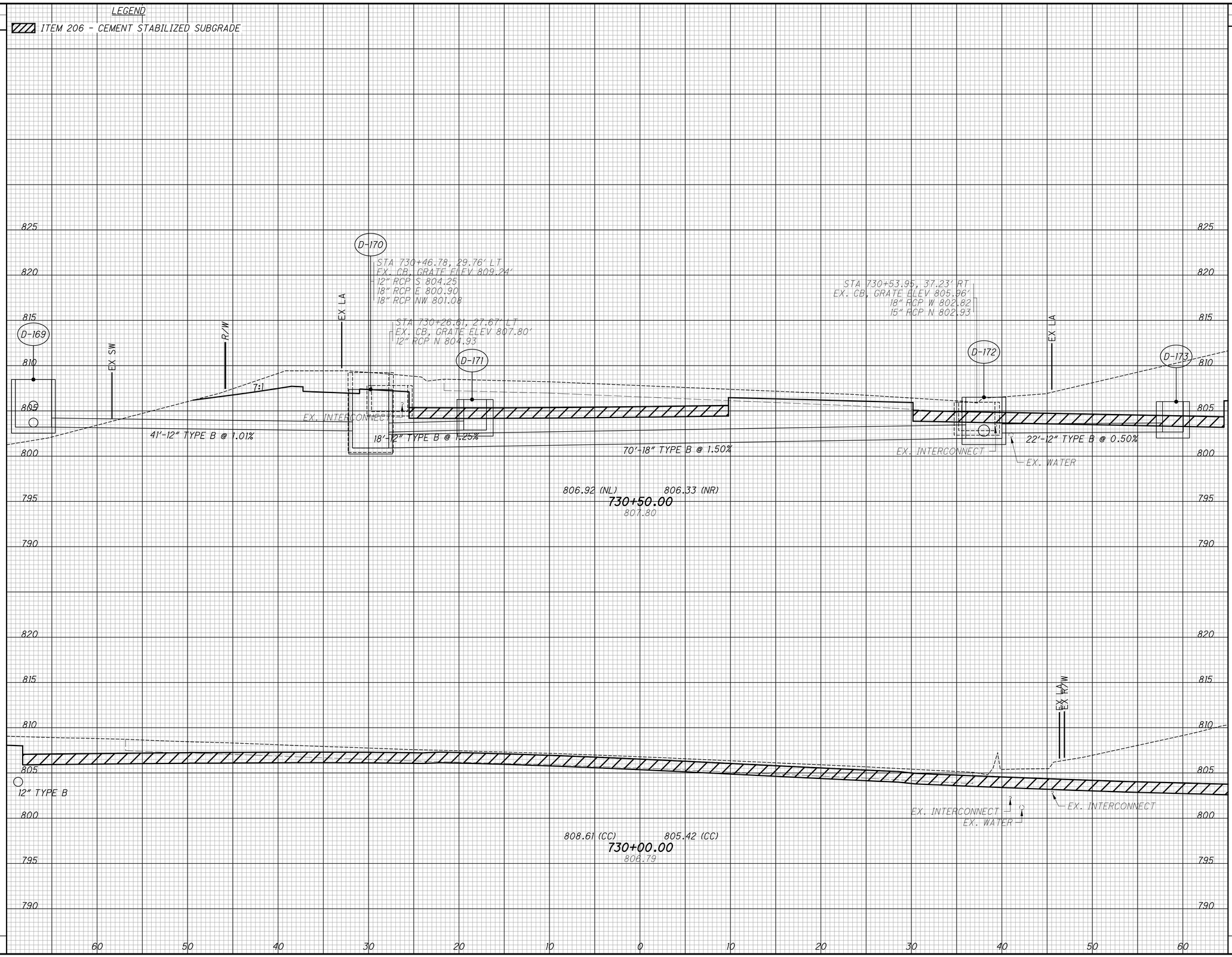
CROSS SECTIONS - PLAINFIELD RD STA. 729+00.00 TO STA. 729+50.00

HAM-PLAINFIELD RD ROUNDABOUTS

SEEDING	
END WIDTH	SQ. YDS.

LEGEND

ITEM 206 - CEMENT STABILIZED SUBGRADE



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
LZS	JS

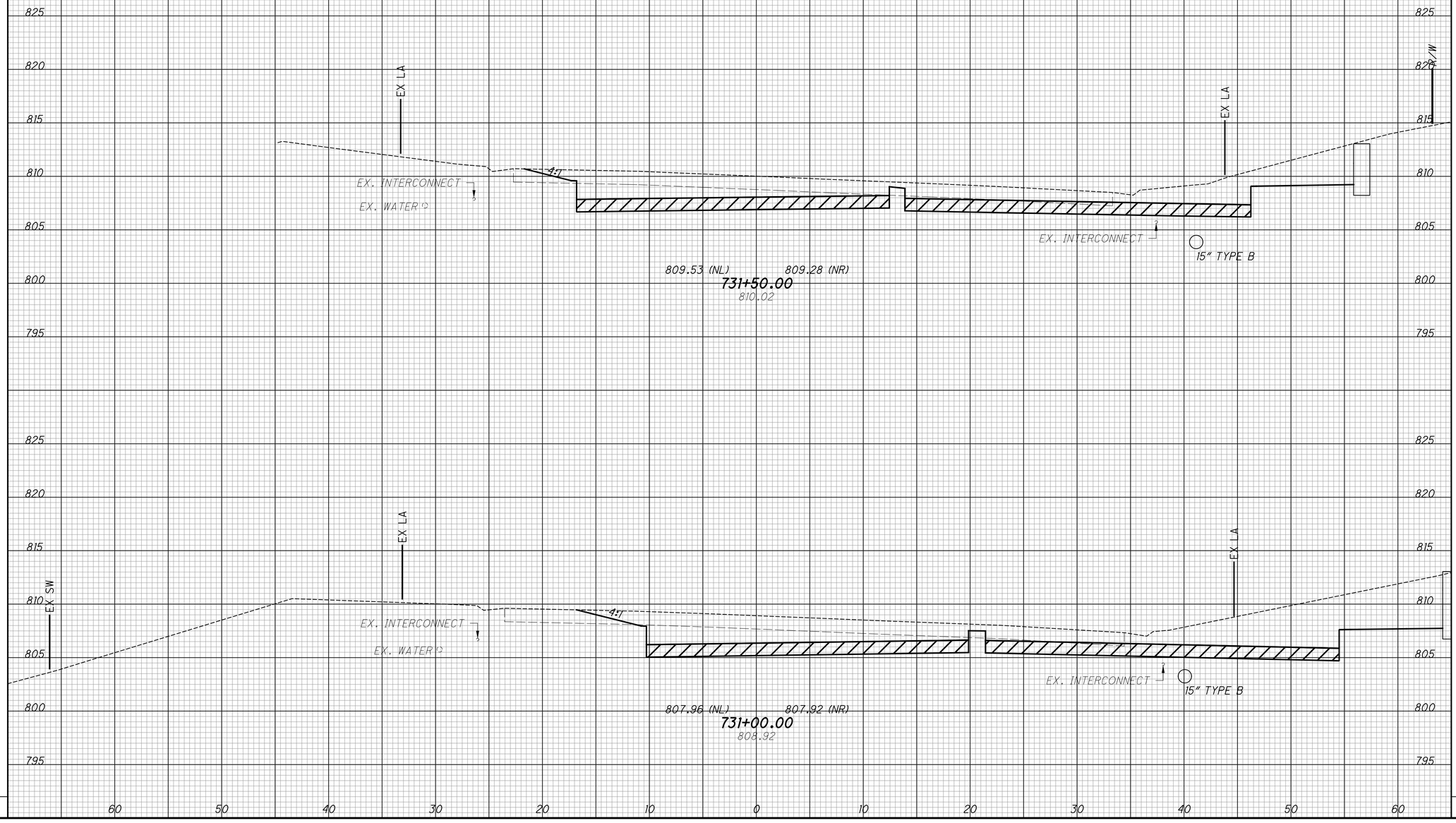
CROSS SECTIONS - PLAINFIELD RD/REED HARTMAN HWY STA. 730+00.00 TO STA. 730+50.00

HAM-PLAINFIELD RD ROUNDABOUTS

SEEDING	
END WIDTH	SQ. YDS.

LEGEND

ITEM 206 - CEMENT STABILIZED SUBGRADE



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED LZS

CHECKED JS

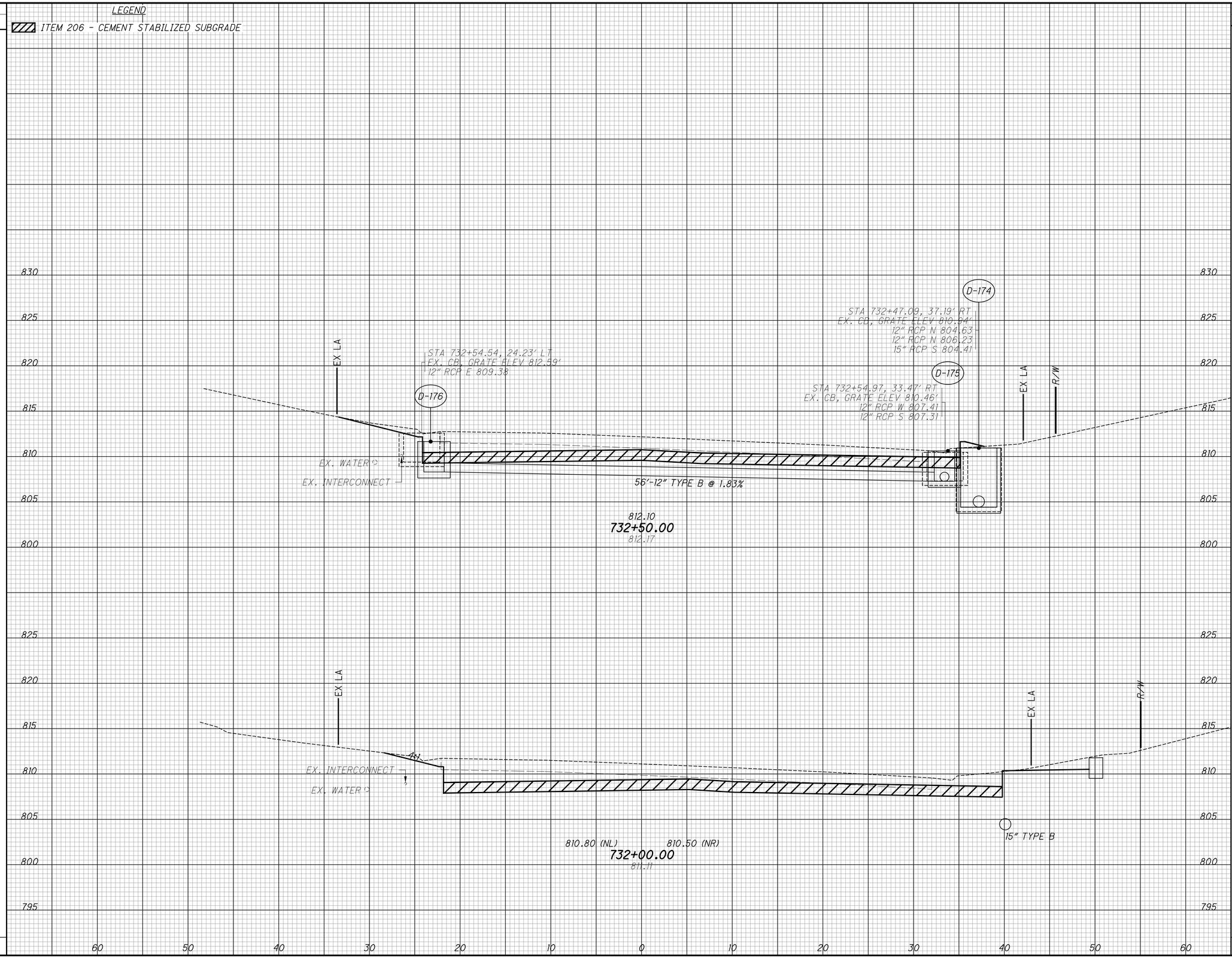
CROSS SECTIONS - REED HARTMAN HWY STA. 731+00.00 TO STA. 731+50.00

HAM-PLAINFIELD RD ROUNDABOUTS

SEEDING	
END WIDTH	SQ. YDS.

LEGEND

ITEM 206 - CEMENT STABILIZED SUBGRADE



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
LZS	JS

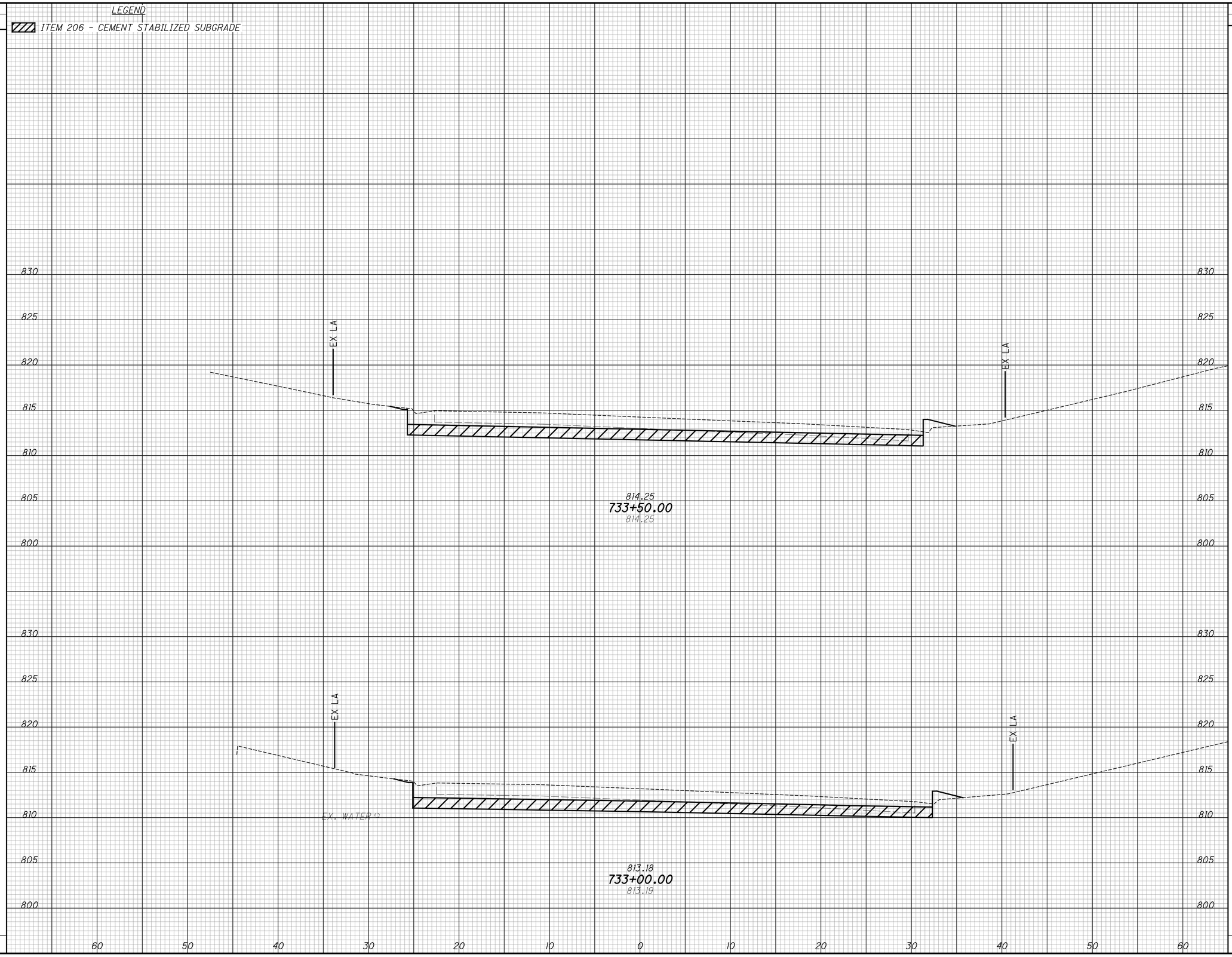
CROSS SECTIONS - REED HARTMAN HWY STA. 732+00.00 TO STA. 732+50.00

HAM-PLAINFIELD RD ROUNDABOUTS

SEEDING	
END WIDTH	SQ. YDS.

LEGEND

ITEM 206 - CEMENT STABILIZED SUBGRADE



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
LZS	JS

CROSS SECTIONS - REED HARTMAN HWY STA. 733+00.00 TO STA. 733+50.00

HAM-PLAINFIELD RD ROUNDABOUTS

SEEDING	
END WIDTH	SQ. YDS.

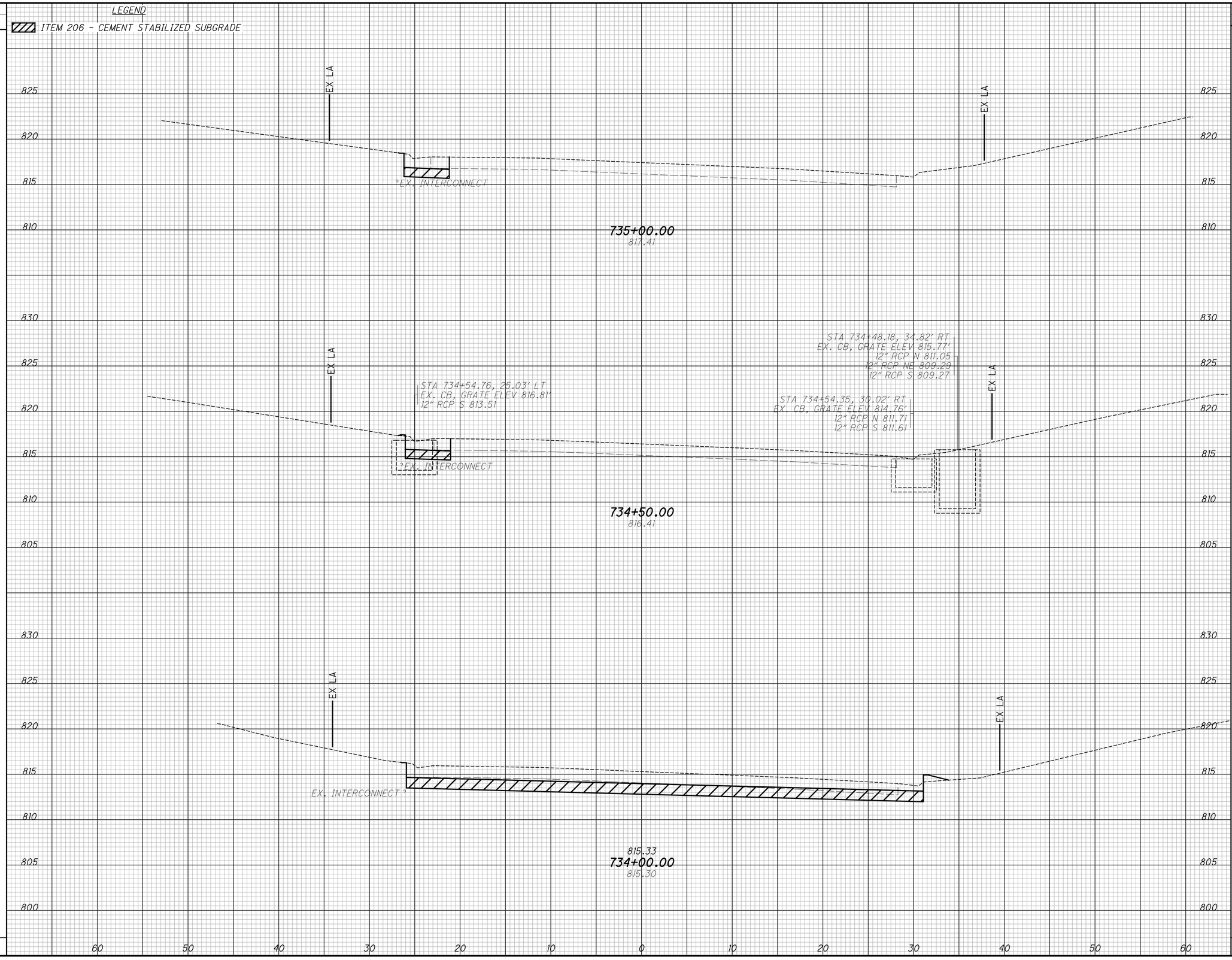
LEGEND

ITEM 206 - CEMENT STABILIZED SUBGRADE

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED LZS

CHECKED JS



CROSS SECTIONS - REED HARTMAN HWY STA. 734+00.00 TO STA. 735+00.00

HAM-PLAINFIELD RD ROUNDABOUTS

SEEDING	
END WIDTH	SQ. YDS.

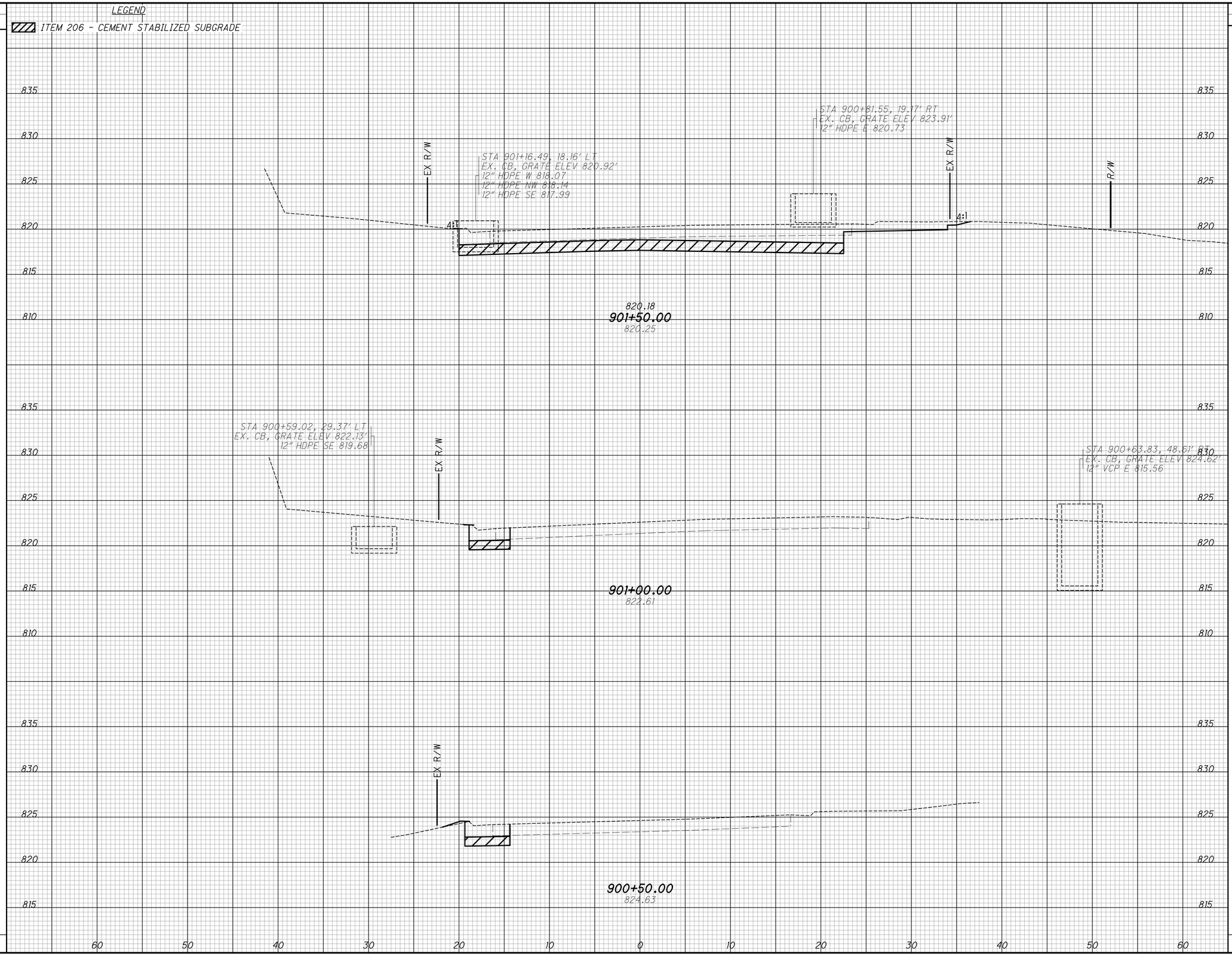
LEGEND

ITEM 206 - CEMENT STABILIZED SUBGRADE

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED LZS

CHECKED JS



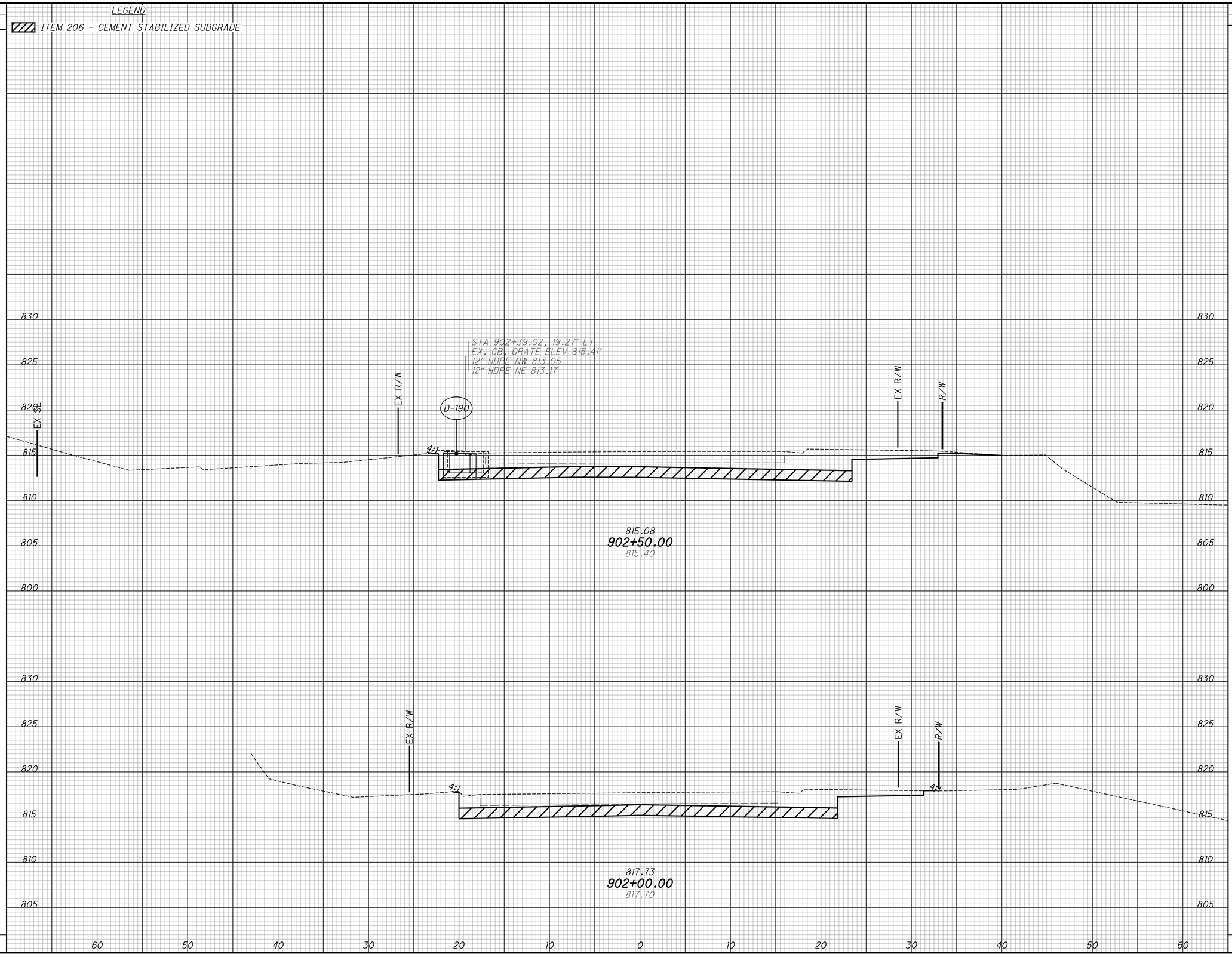
CROSS SECTIONS - PLAINFIELD RD
STA. 900+00.00 TO STA. 901+50.00

HAM-PLAINFIELD RD
ROUNDABOUTS

SEEDING	
END WIDTH	SQ. YDS.

LEGEND

ITEM 206 - CEMENT STABILIZED SUBGRADE



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
LZS	JS

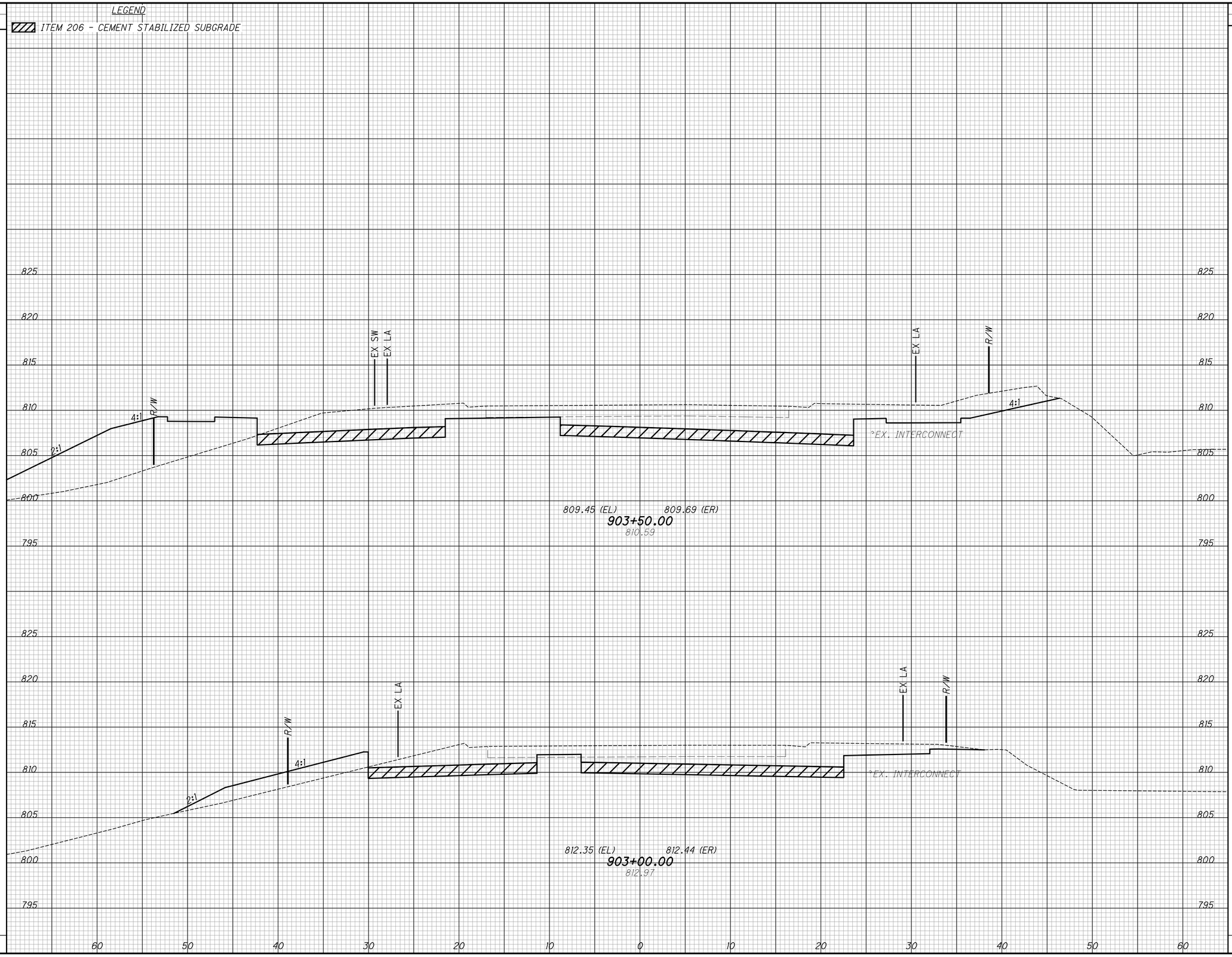
CROSS SECTIONS - PLAINFIELD RD
STA. 902+00.00 TO STA. 902+50.00

HAM-PLAINFIELD RD ROUNDABOUTS

SEEDING	
END WIDTH	SQ. YDS.

LEGEND

ITEM 206 - CEMENT STABILIZED SUBGRADE



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
LZS	JS

CROSS SECTIONS - PLAINFIELD RD
STA. 903+00.00 TO STA. 903+50.00

HAM-PLAINFIELD RD ROUNDABOUTS

SEEDING	
END WIDTH	SQ. YDS.

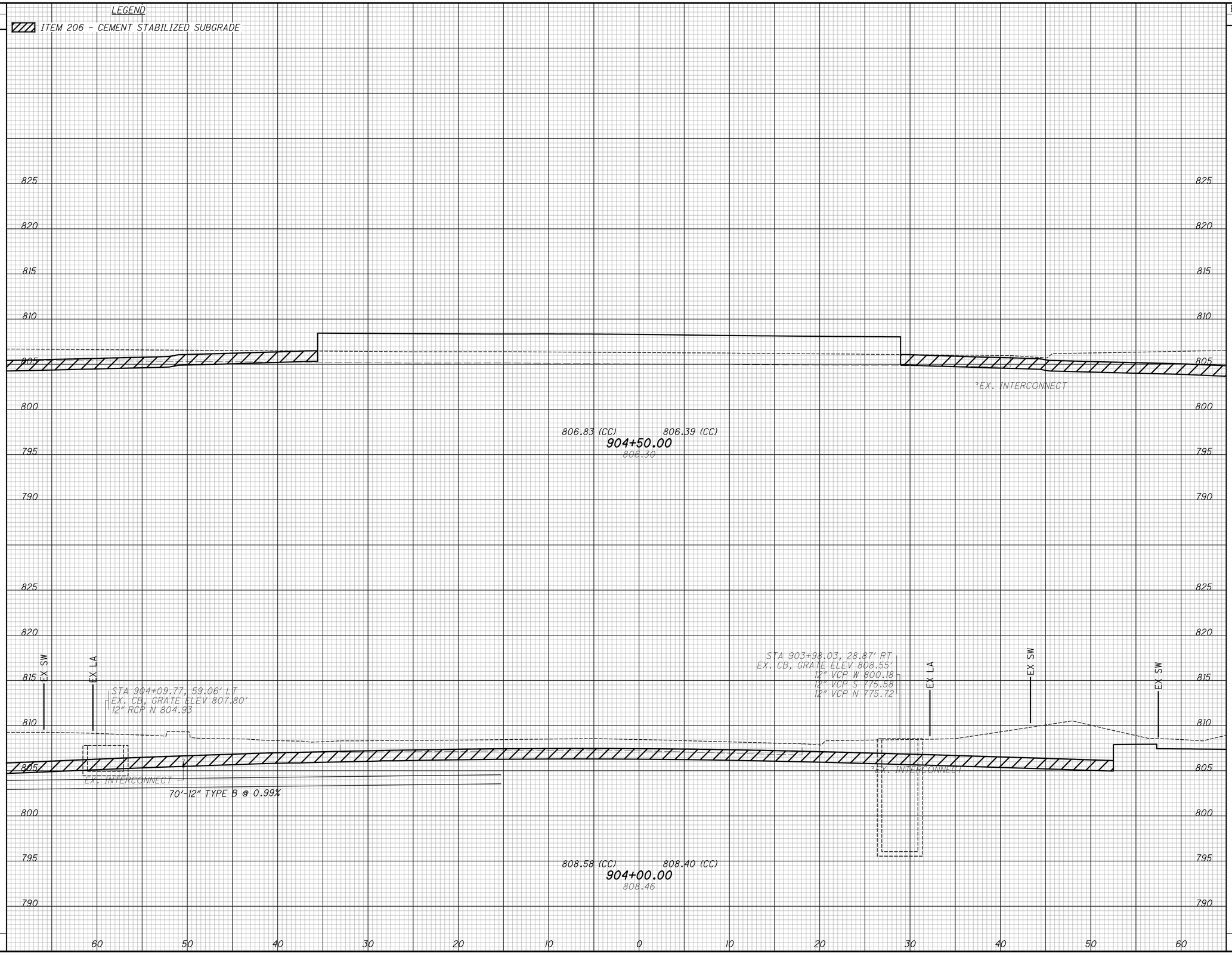
LEGEND

ITEM 206 - CEMENT STABILIZED SUBGRADE

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED LZS

CHECKED JS



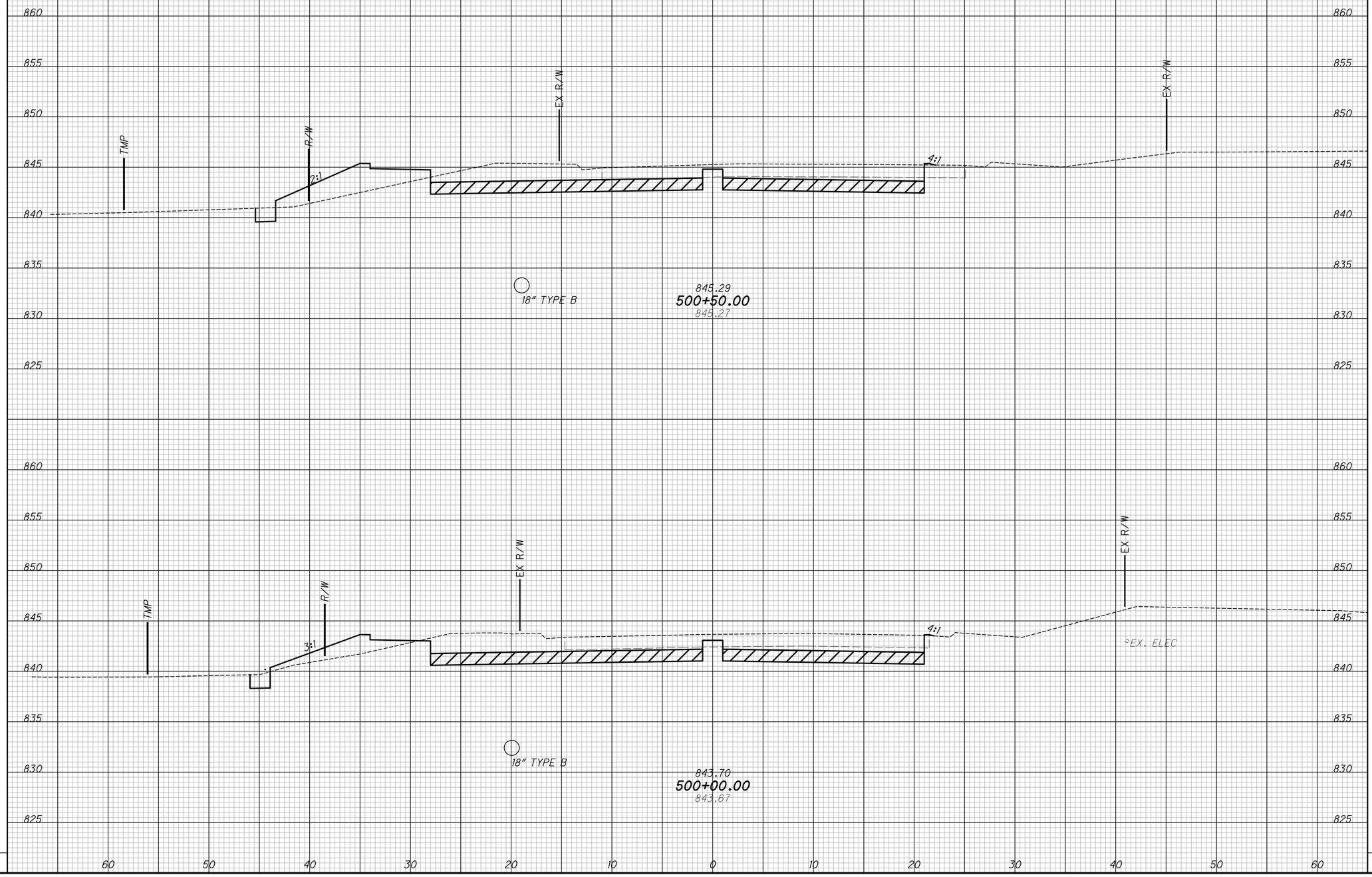
CROSS SECTIONS - PLAINFIELD RD STA. 904+00.00 TO STA. 904+50.00

HAM-PLAINFIELD RD ROUNDABOUTS

SEEDING	
END WIDTH	SQ. YDS.

LEGEND

ITEM 206 - CEMENT STABILIZED SUBGRADE



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED LZS

CHECKED JS

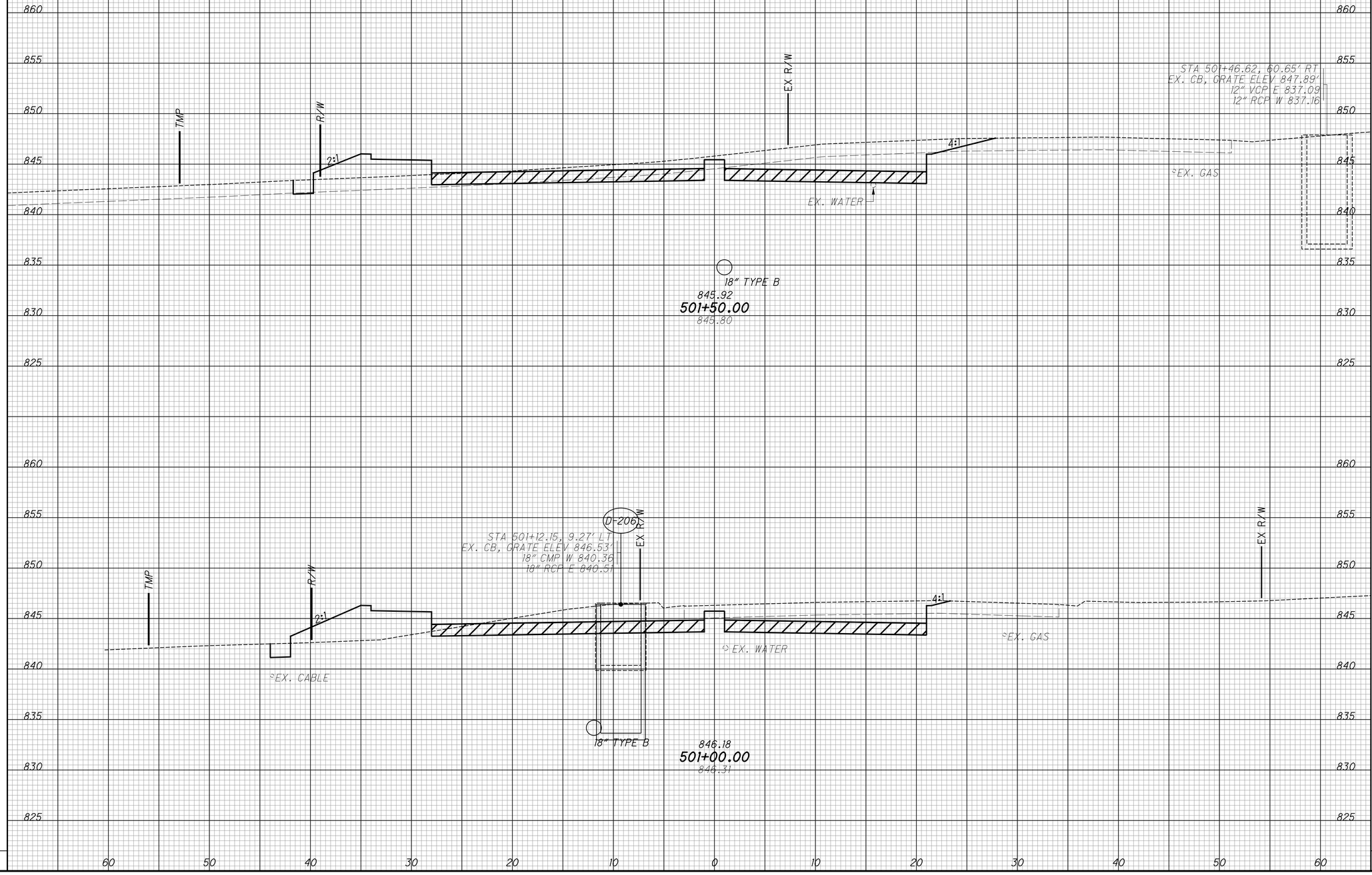
CROSS SECTIONS - PROPOSED HUNT RD
STA. 500+00.00 TO STA. 500+50.00

HAM-PLAINFIELD RD ROUNDABOUTS

SEEDING	
END WIDTH	SQ. YDS.

LEGEND

ITEM 206 - CEMENT STABILIZED SUBGRADE



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
LZS	JS

CROSS SECTIONS - PROPOSED HUNT RD
STA. 501+00.00 TO STA. 501+50.00

HAM-PLAINFIELD RD ROUNDABOUTS

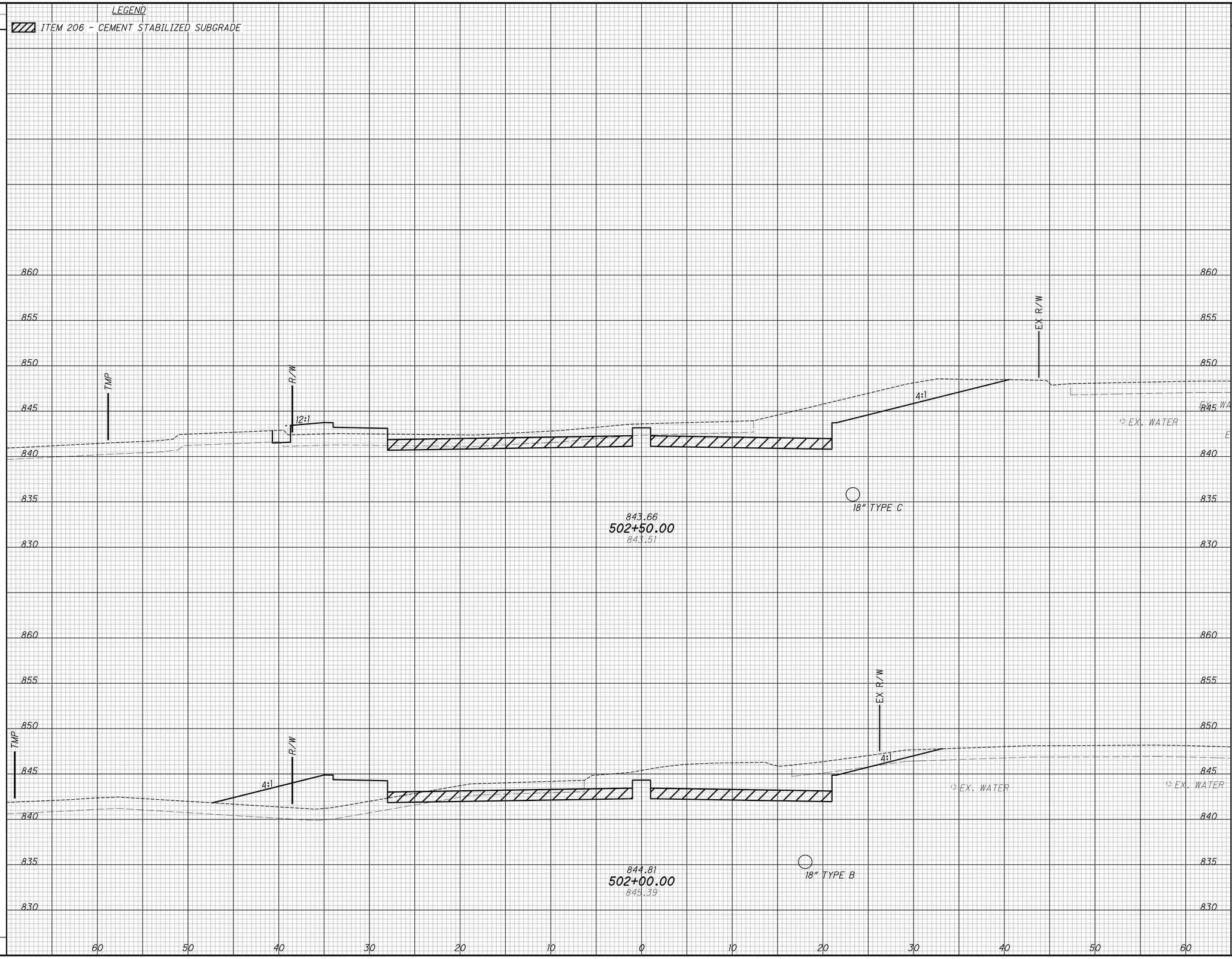
SEEDING	
END WIDTH	SQ. YDS.

LEGEND

ITEM 206 - CEMENT STABILIZED SUBGRADE

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
LZS	JS



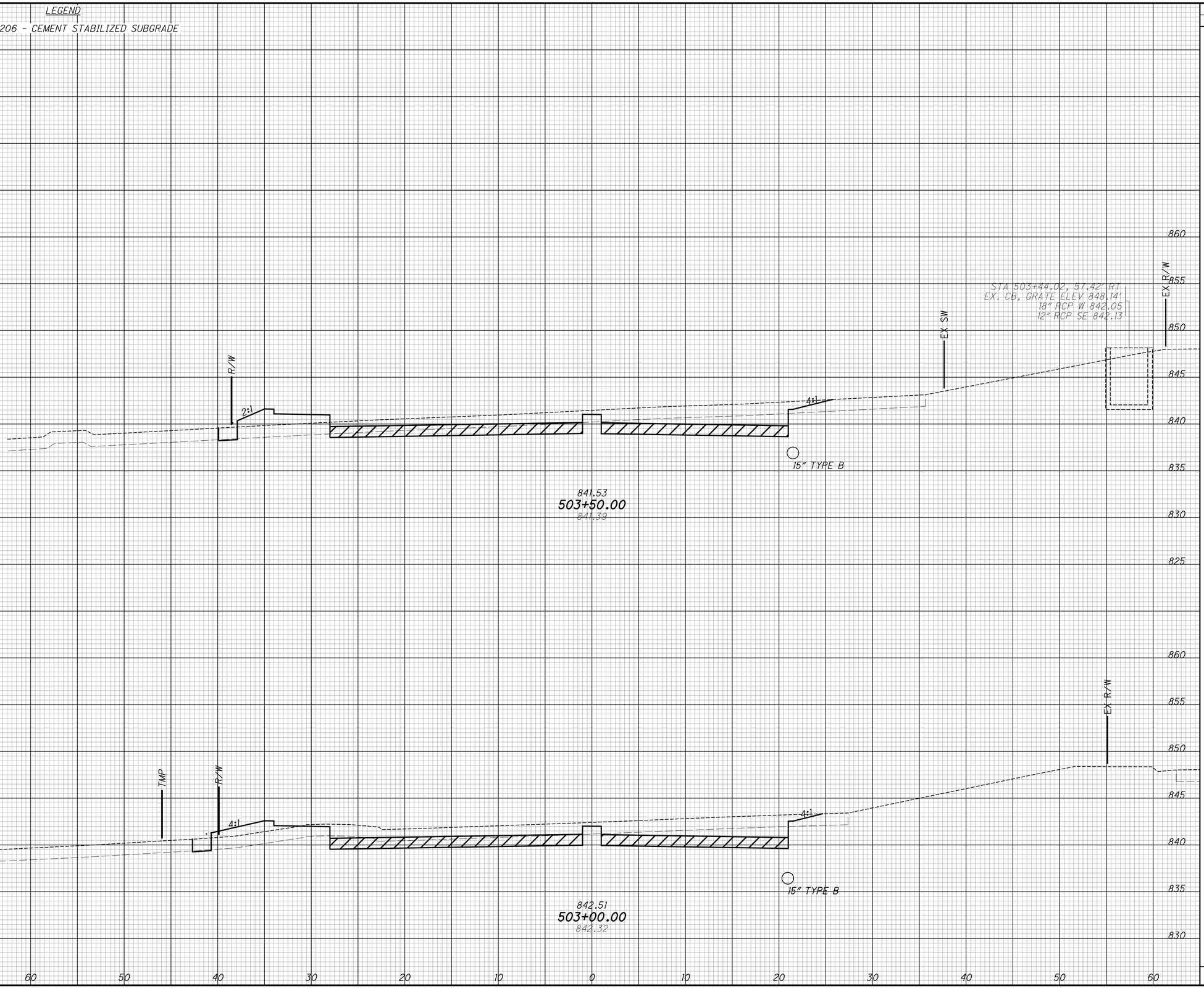
CROSS SECTIONS - PROPOSED HUNT RD
STA. 502+00.00 TO STA. 502+50.00

HAM-PLAINFIELD RD ROUNDABOUTS

SEEDING	
END WIDTH	SQ. YDS.

LEGEND

ITEM 206 - CEMENT STABILIZED SUBGRADE



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED LZS

CHECKED JS

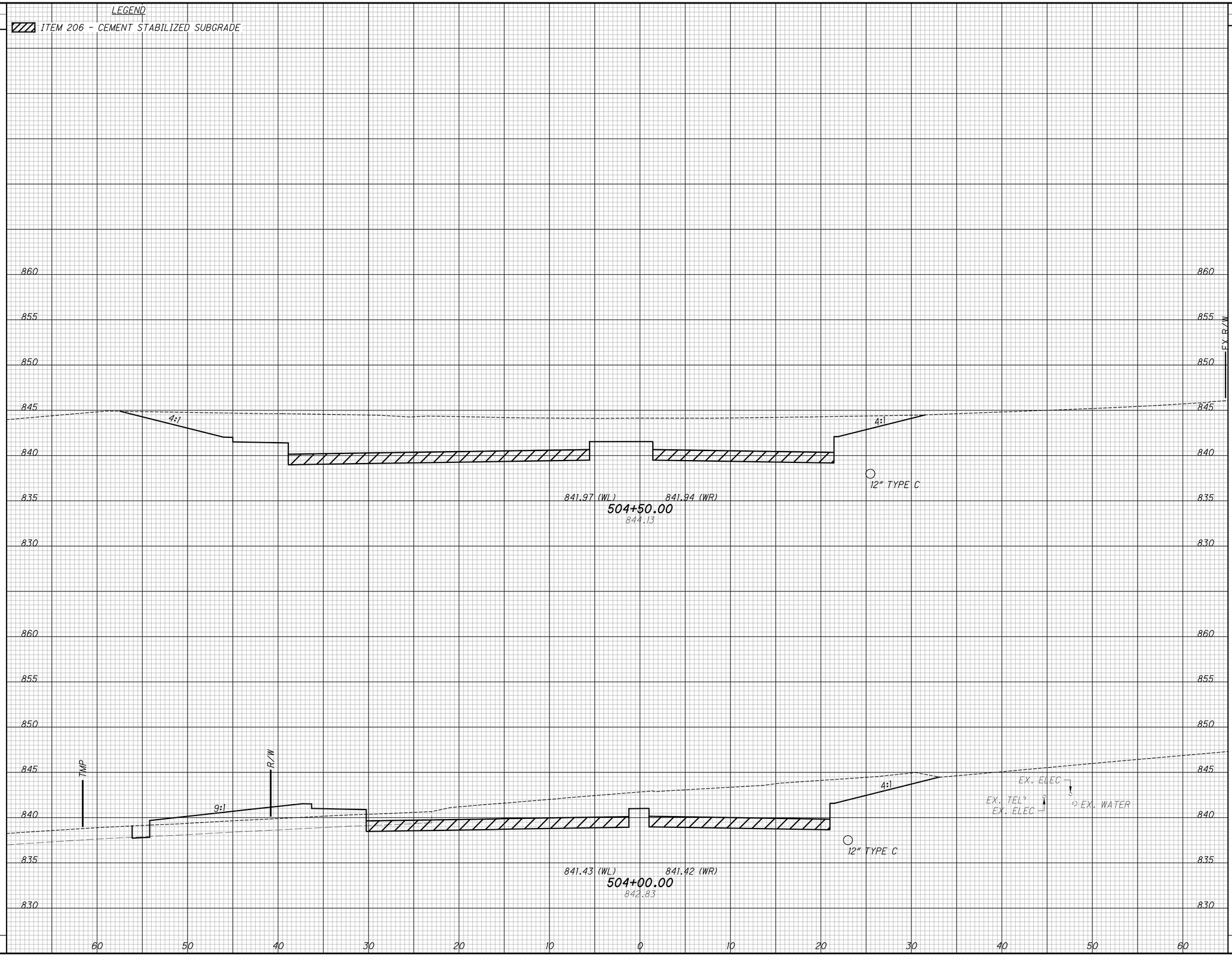
CROSS SECTIONS - PROPOSED HUNT RD
STA. 503+00.00 TO STA. 503+50.00

HAM-PLAINFIELD RD ROUNDABOUTS

SEEDING	
END WIDTH	SQ. YDS.

LEGEND

ITEM 206 - CEMENT STABILIZED SUBGRADE



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED LZS

CHECKED JS

CROSS SECTIONS - PROPOSED HUNT RD
STA. 504+00.00 TO STA. 504+50.00

HAM-PLAINFIELD RD ROUNDABOUTS

198
335

SEEDING	
END WIDTH	SQ. YDS.

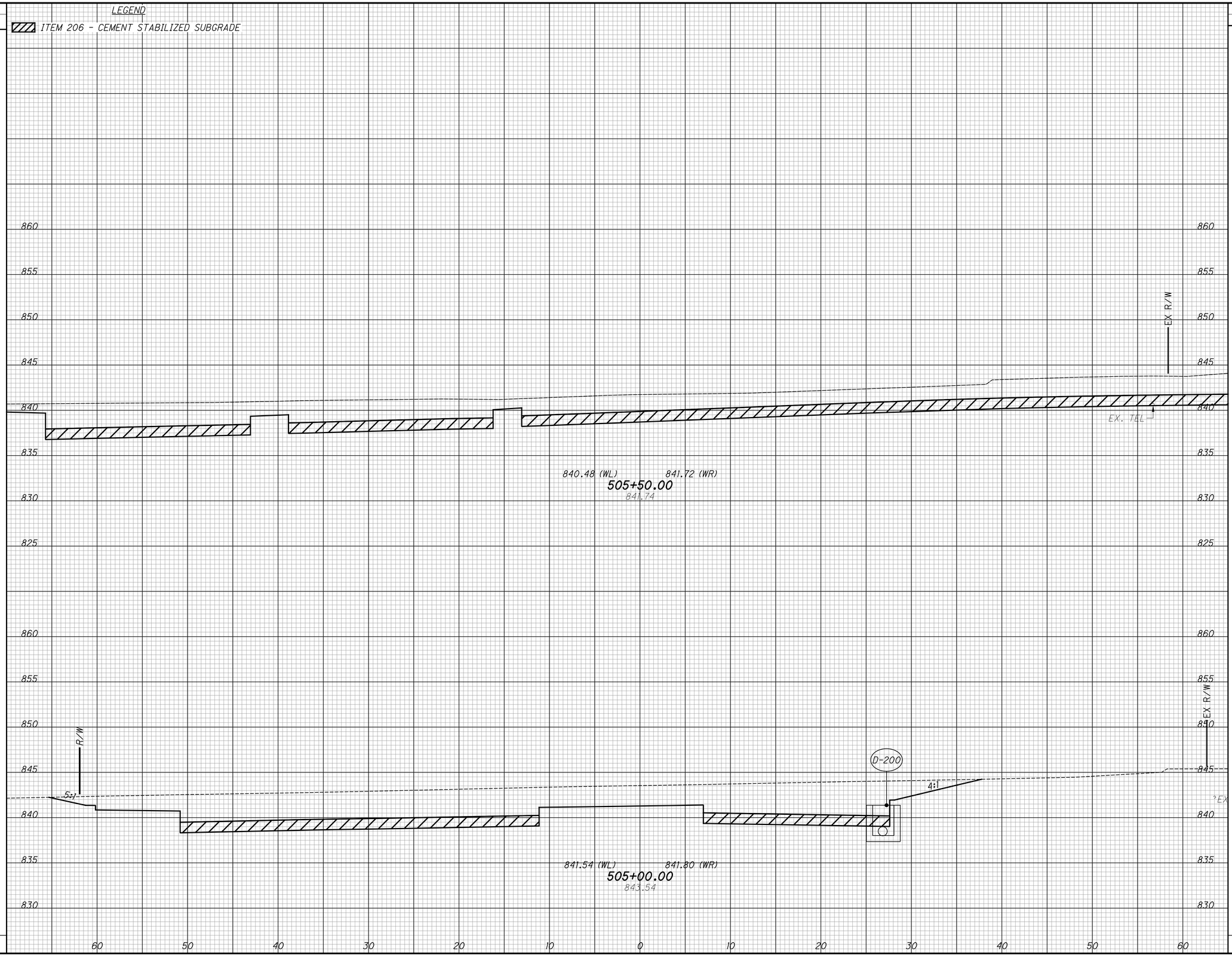
LEGEND

ITEM 206 - CEMENT STABILIZED SUBGRADE

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED LZS

CHECKED JS



CROSS SECTIONS - PROPOSED HUNT RD STA. 505+00.00 TO STA. 505+50.00

HAM-PLAINFIELD RD ROUNDABOUTS

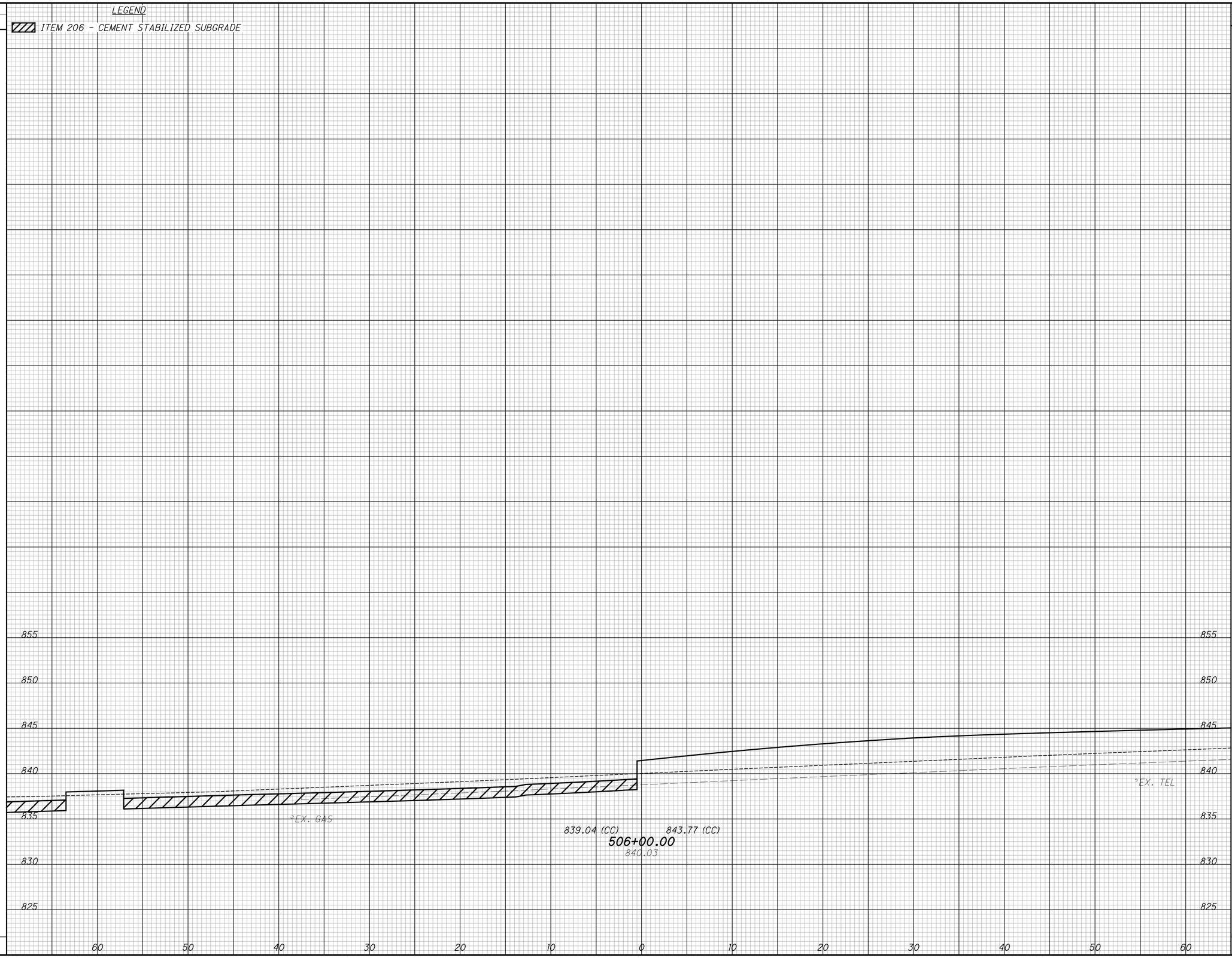
SEEDING	
END WIDTH	SQ. YDS.

LEGEND

ITEM 206 - CEMENT STABILIZED SUBGRADE

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
LZS	JS



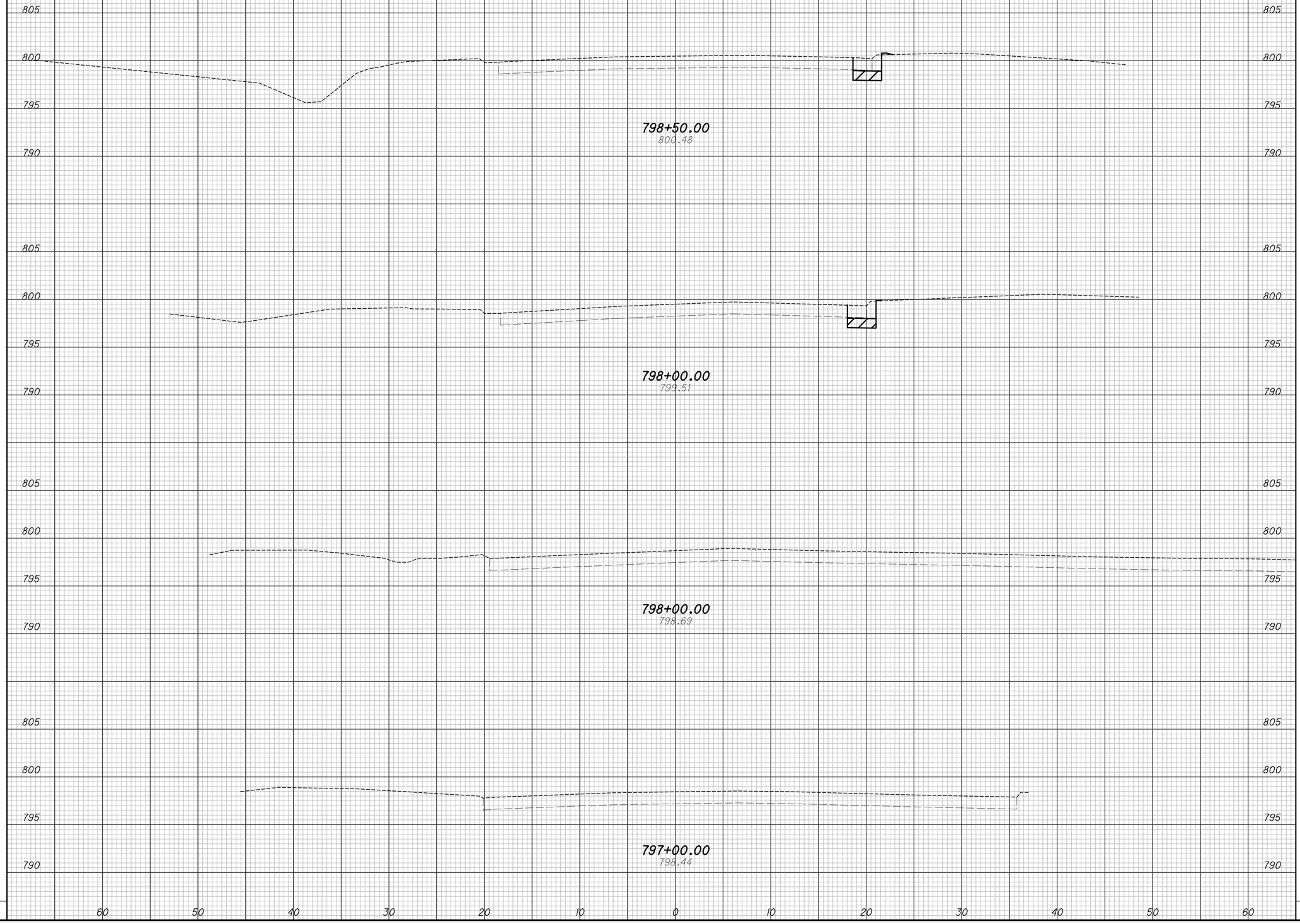
CROSS SECTIONS - PROPOSED HUNT RD STA. 506+00.00

HAM-PLAINFIELD RD ROUNDABOUTS

SEEDING	
END WIDTH	SQ. YDS.

LEGEND

ITEM 206 - CEMENT STABILIZED SUBGRADE



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED LZS

CHECKED JS

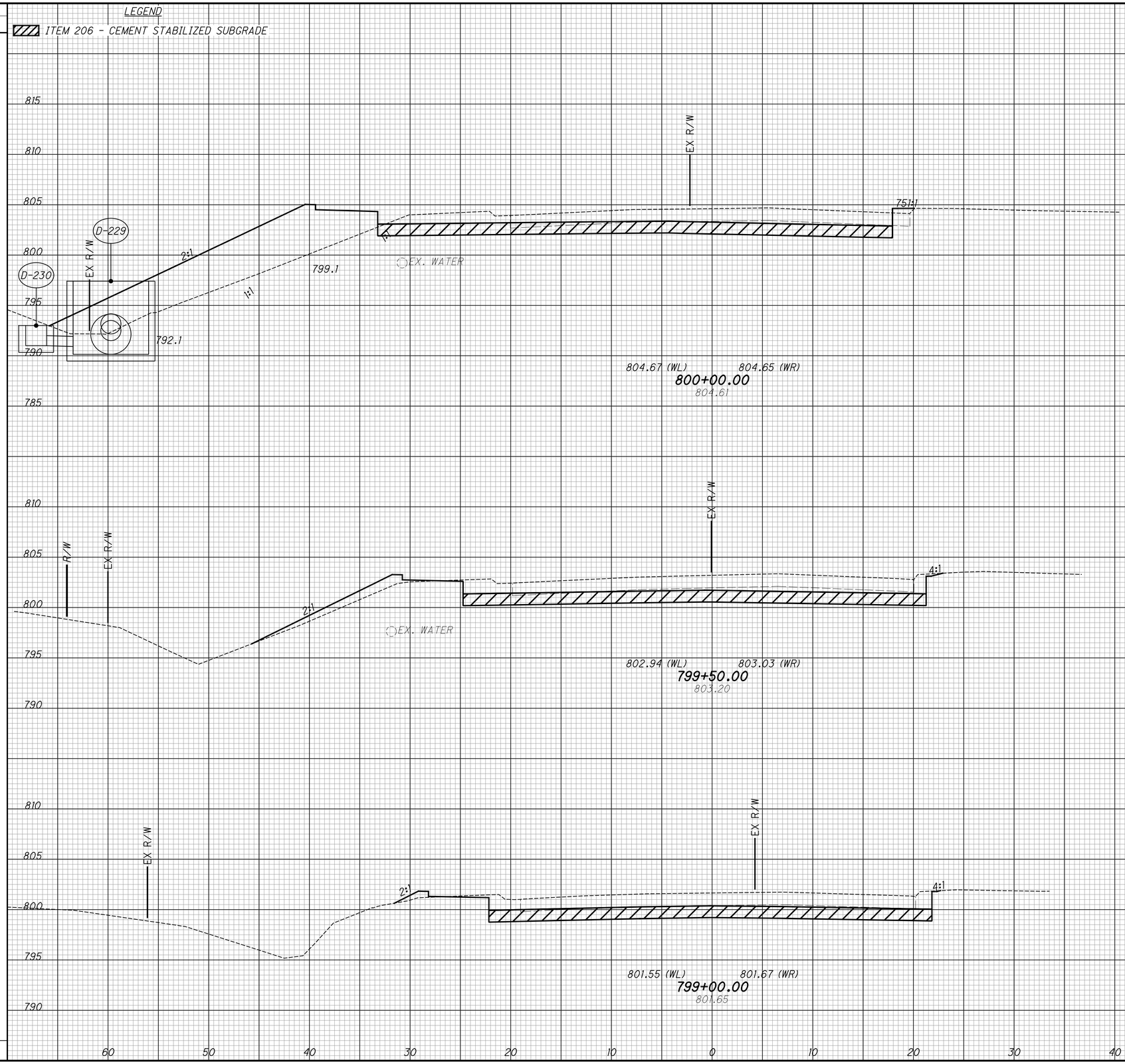
CROSS SECTIONS - EXISTING HUNT RD
STA. 797+00.00 TO STA. 798+50.00

HAM-PLAINFIELD RD
ROUNDABOUTS

SEEDING	
END WIDTH	SQ. YDS.

LEGEND

ITEM 206 - CEMENT STABILIZED SUBGRADE



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
LZS	JS

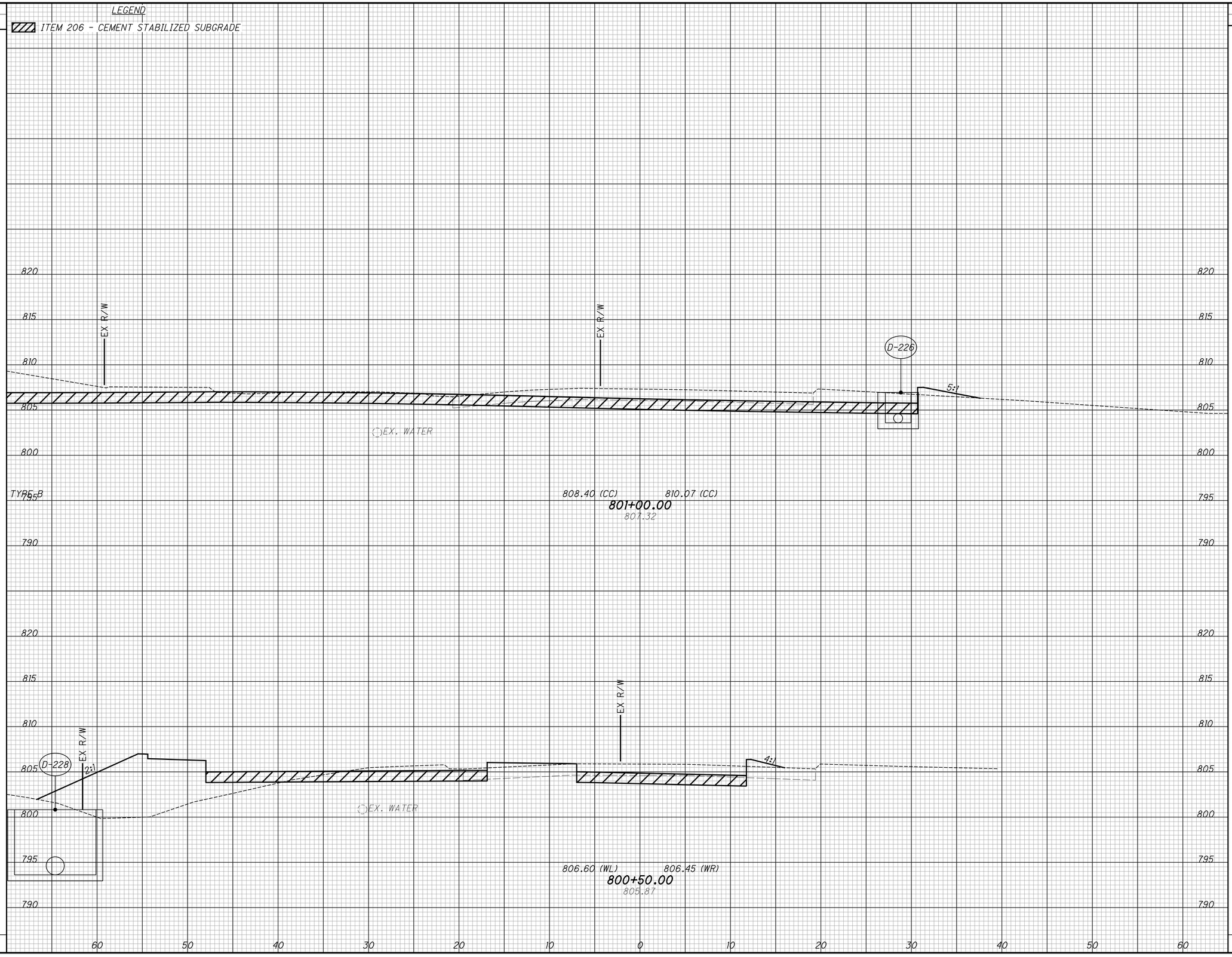
CROSS SECTIONS - EXISTING HUNT RD
STA. 799+00.00 TO STA. 800+00.00

HAM-PLAINFIELD RD ROUNDABOUTS

SEEDING	
END WIDTH	SQ. YDS.

LEGEND

ITEM 206 - CEMENT STABILIZED SUBGRADE



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED LZS

CHECKED JS

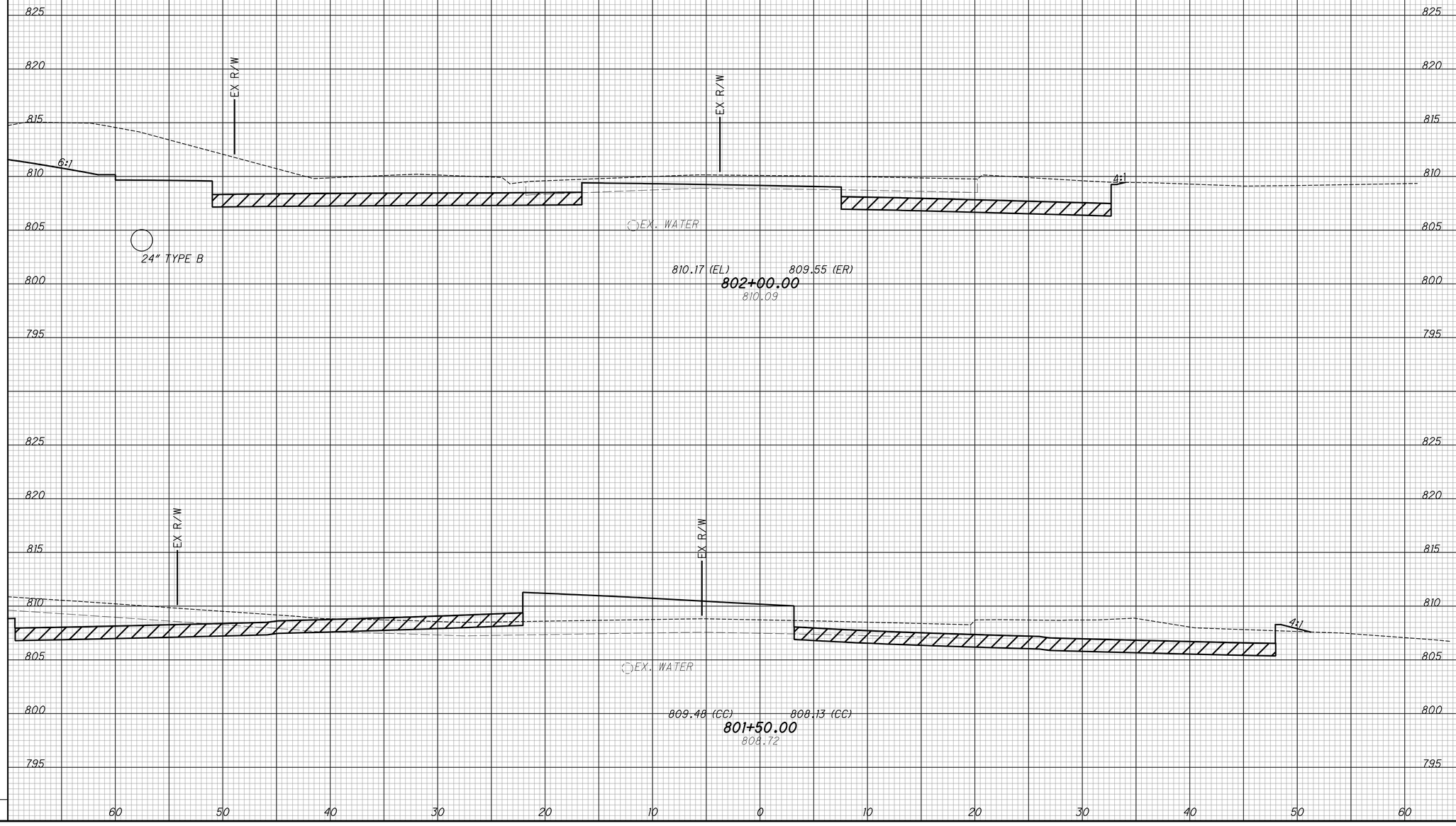
CROSS SECTIONS - EXISTING HUNT RD STA. 800+50.00 TO STA. 801+00.00

HAM-PLAINFIELD RD ROUNDABOUTS

SEEDING	
END WIDTH	SQ. YDS.

LEGEND

ITEM 206 - CEMENT STABILIZED SUBGRADE



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
LZS	JS

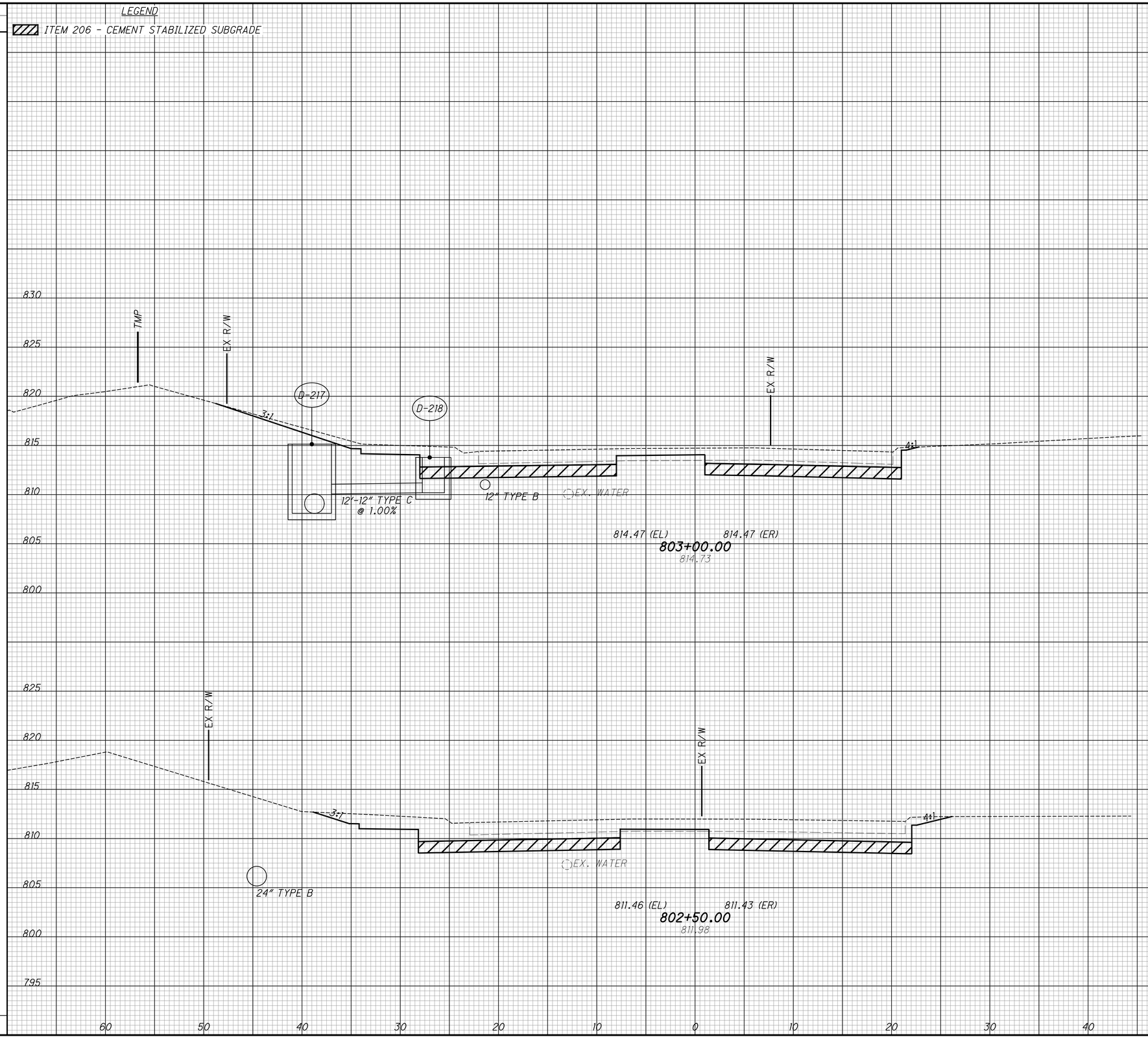
CROSS SECTIONS - EXISTING HUNT RD
STA. 801+50.00 TO STA. 802+00.00

HAM-PLAINFIELD RD ROUNDABOUTS

SEEDING	
END WIDTH	SQ. YDS.

LEGEND

ITEM 206 - CEMENT STABILIZED SUBGRADE



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED LZS

CHECKED JS

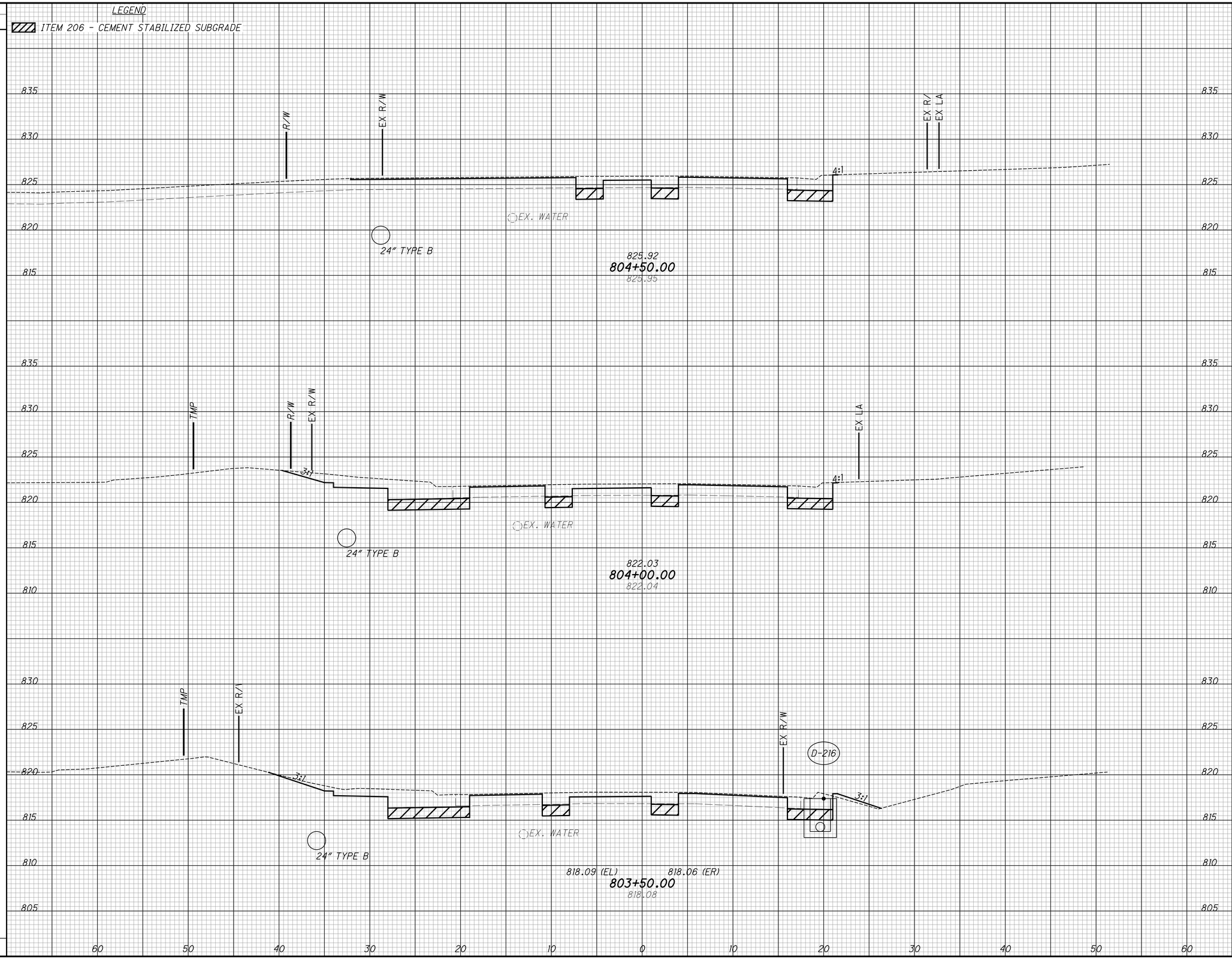
CROSS SECTIONS - EXISTING HUNT RD
STA. 802+50.00 TO STA. 803+00.00

HAM-PLAINFIELD RD ROUNDABOUTS

SEEDING	
END WIDTH	SQ. YDS.

LEGEND

ITEM 206 - CEMENT STABILIZED SUBGRADE



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
LZS	JS

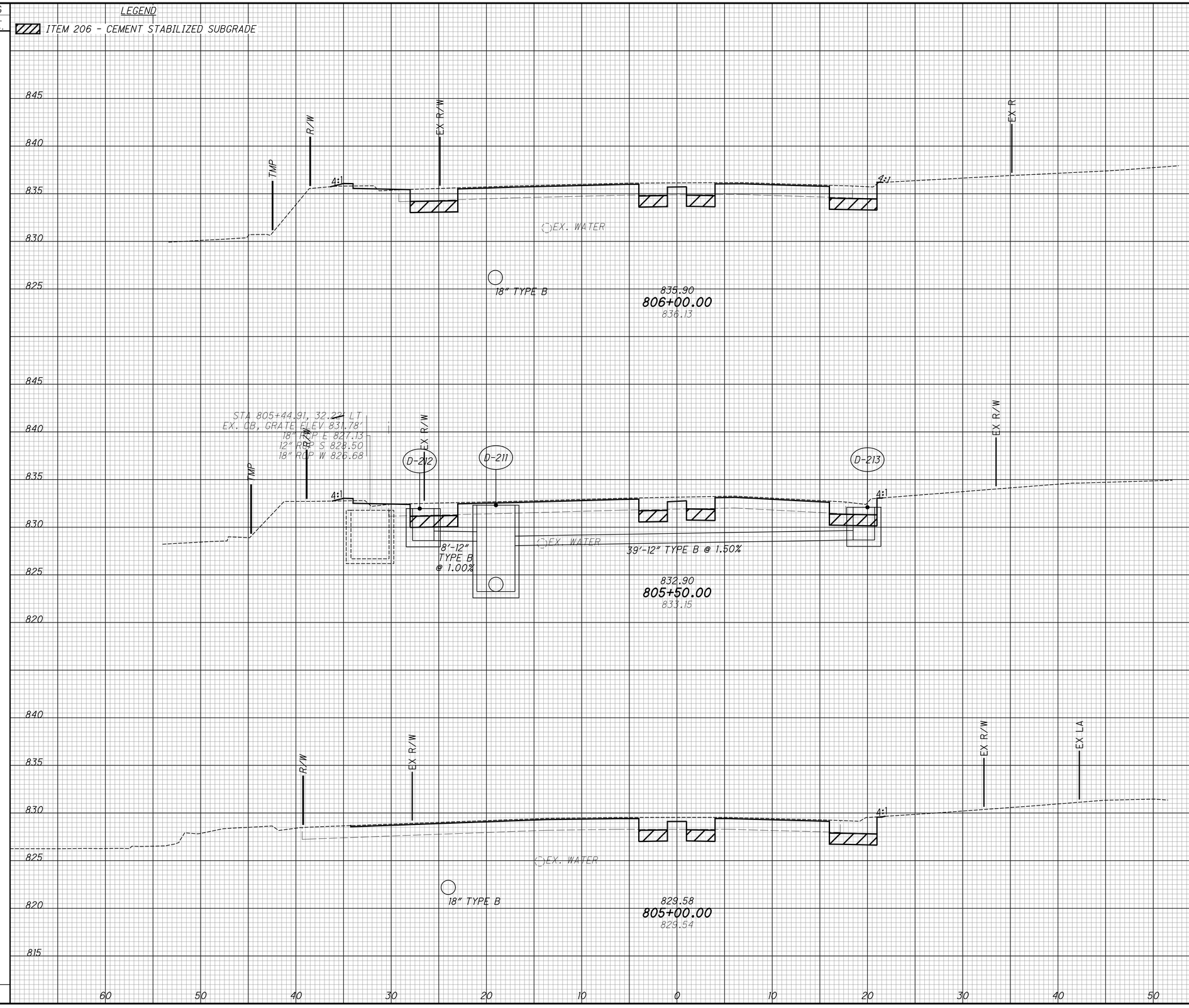
CROSS SECTIONS - EXISTING HUNT RD STA. 803+50.00 TO STA. 804+50.00

HAM-PLAINFIELD RD ROUNDABOUTS

SEEDING	
END WIDTH	SQ. YDS.

LEGEND

ITEM 206 - CEMENT STABILIZED SUBGRADE



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
LZS	JS

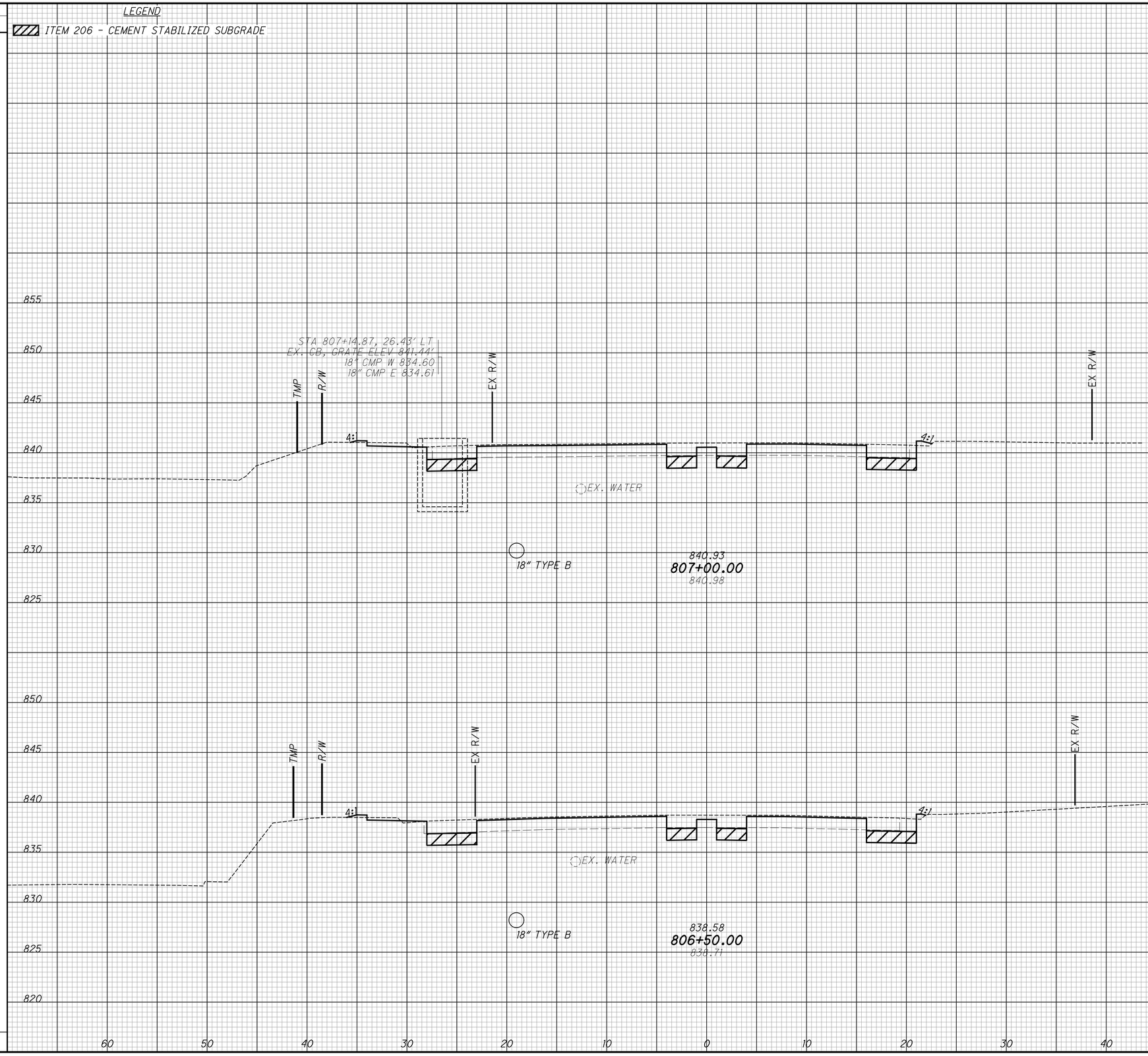
CROSS SECTIONS - EXISTING HUNT RD
STA. 805+00.00 TO STA. 806+00.00

HAM-PLAINFIELD RD ROUNDABOUTS

SEEDING	
END WIDTH	SQ. YDS.

LEGEND

ITEM 206 - CEMENT STABILIZED SUBGRADE



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED LZS

CHECKED JS

CROSS SECTIONS - EXISTING HUNT RD
STA. 806+50.00 TO STA. 807+00.00

HAM-PLAINFIELD RD
ROUNDABOUTS

SEEDING	
END WIDTH	SQ. YDS.

LEGEND

ITEM 206 - CEMENT STABILIZED SUBGRADE

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED LZS

CHECKED JS

STA 813+97.36, 16.6' LT
EX. CB, GRATE ELEV 842.09'
12" VCP SW 817.70
12" VCP N 817.61
12" VCP E 817.57

STA 814+15.43, 26.54' RT
EX. CB, GRATE ELEV 843.49'
15" RCP E 836.75
15" RCP SW 836.77
12" RCP S 838.39

STA 813+86.09, 52.75' RT
EX. CB, GRATE ELEV 844.70'
12" RCP S 839.24
12" RCP NW 839.57
15" RCP NE 838.55

STA 813+85.70, 45.30' RT
EX. CB, GRATE ELEV 843.98'
12" RCP SE 840.08
12" RCP W 840.38

EX R/W

R/W

TMP

EX. TEL

EX. WATER

EX. GAS

EX. ELEC

842.08
814+00.00
842.04

STA 807+50.68, 26.43' LT
EX. CB, GRATE ELEV 843.13'
18" CMP W 835.26
12" RCP S 835.65
18" CMP E 835.35

STA 807+47.84, 21.49' LT
EX. CB, GRATE ELEV 842.20'
12" RCP N 836.20
12" RCP S 836.19

STA 807+46.96, 23.28' RT
EX. CB, GRATE ELEV 842.30'
12" RCP N 836.76
12" RCP S 837.27

STA 807+44.41, 32.16' RT
EX. CB, GRATE ELEV 843.46'
12" RCP N 841.40
12" RCP SE 841.53

D-207

D-210

D-209

TMP

R/W

EX R/W

EX R/W

4:1

4:1

4:1

81'-12" TYPE B @ 1.50%

39'-12" TYPE B @ 1.00%

39'-12" TYPE C @ 19.31%

EX. WATER

EX. ELEC

842.98
807+50.00
842.97

865 860 855 850 845 840 835 830 825

60 50 40 30 20 10 0 10 20 30 40 50 60

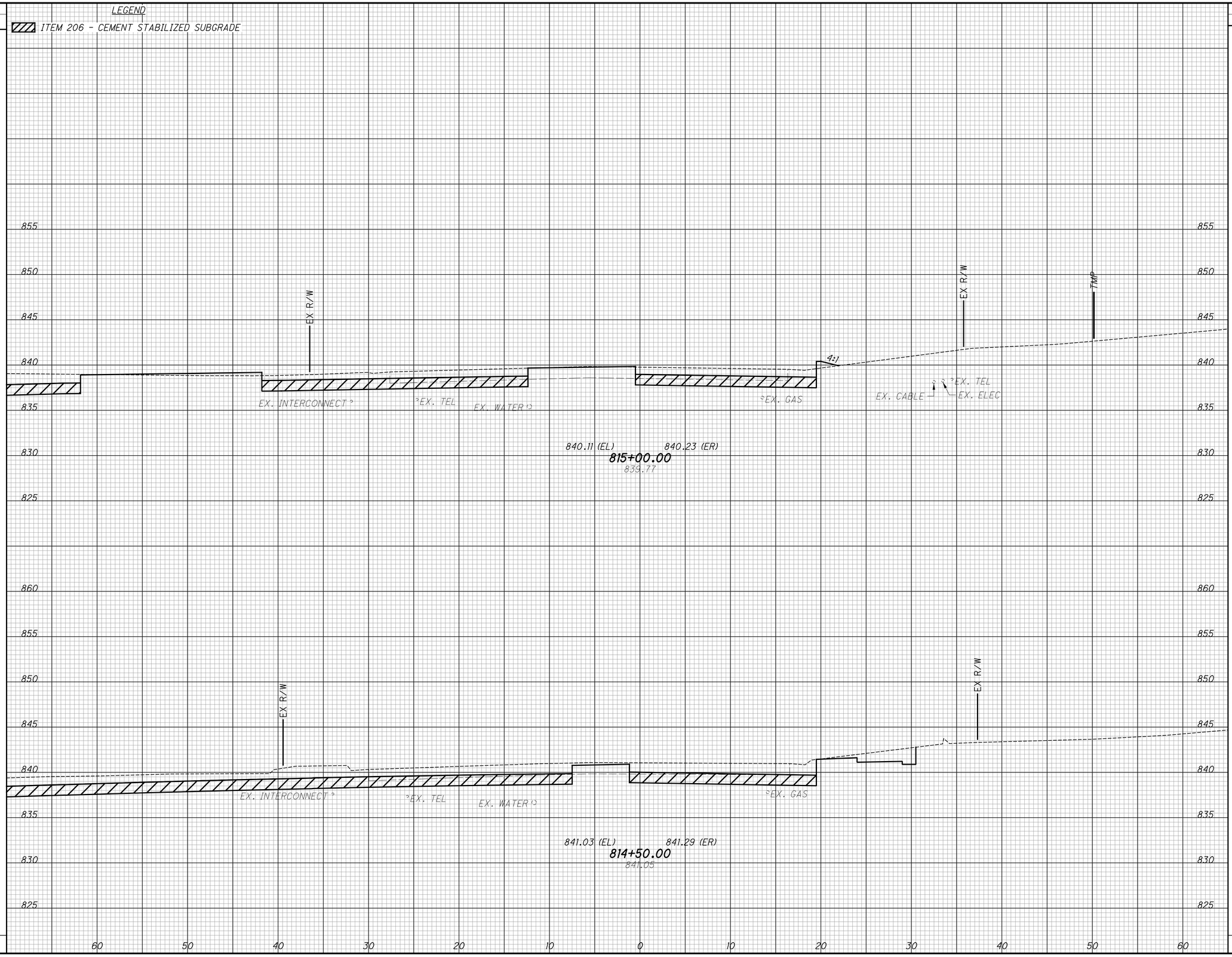
CROSS SECTIONS - EXISTING HUNT RD STA. 807+50.00 AND STA. 814+00.00

HAM-PLAINFIELD RD ROUNDABOUTS

SEEDING	
END WIDTH	SQ. YDS.

LEGEND

ITEM 206 - CEMENT STABILIZED SUBGRADE



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
LZS	JS

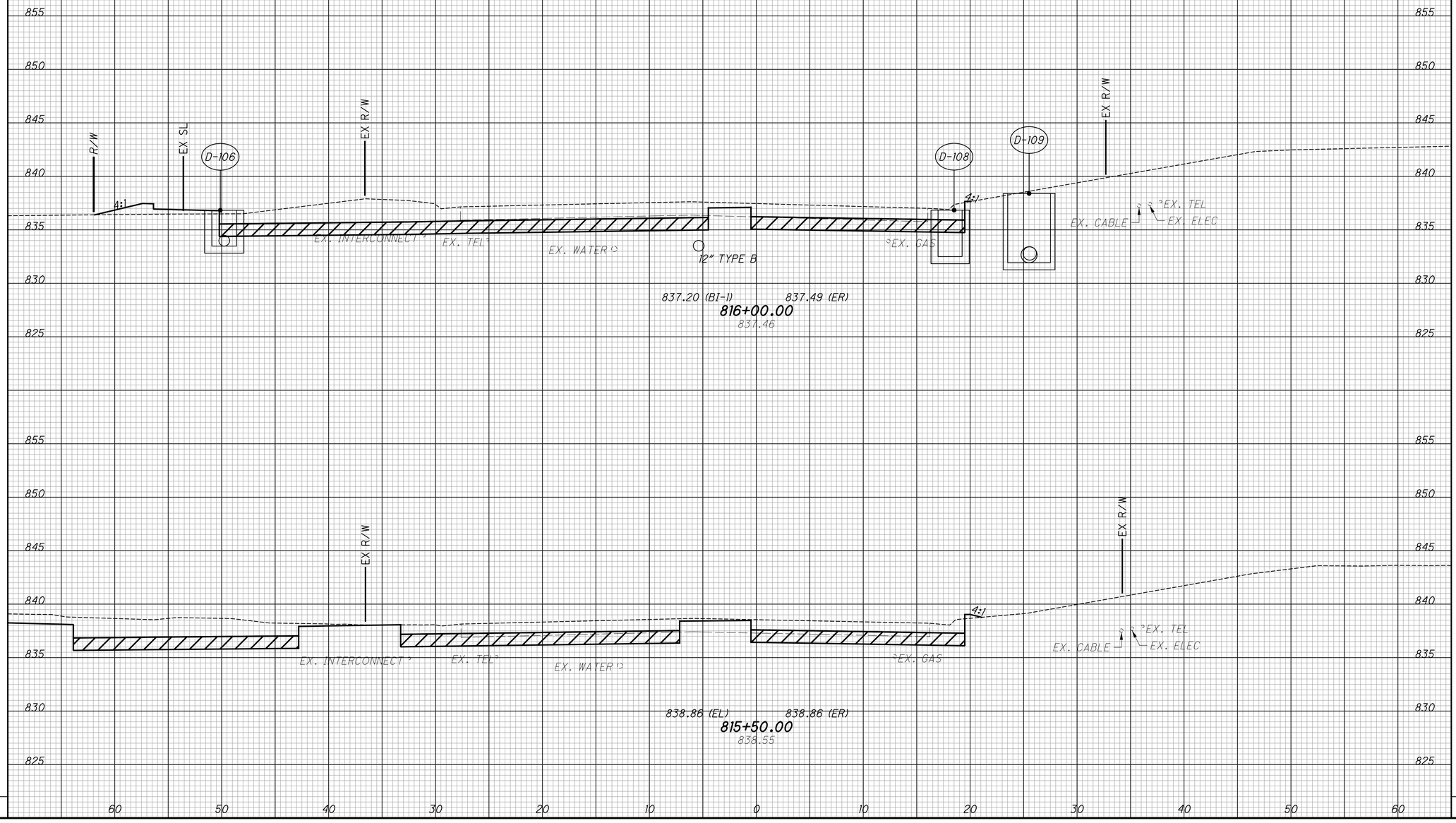
CROSS SECTIONS - EXISTING HUNT RD
STA. 814+50.00 TO STA. 815+00.00

HAM-PLAINFIELD RD
ROUNDABOUTS

SEEDING	
END WIDTH	SQ. YDS.

LEGEND

ITEM 206 - CEMENT STABILIZED SUBGRADE



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
LZS	JS

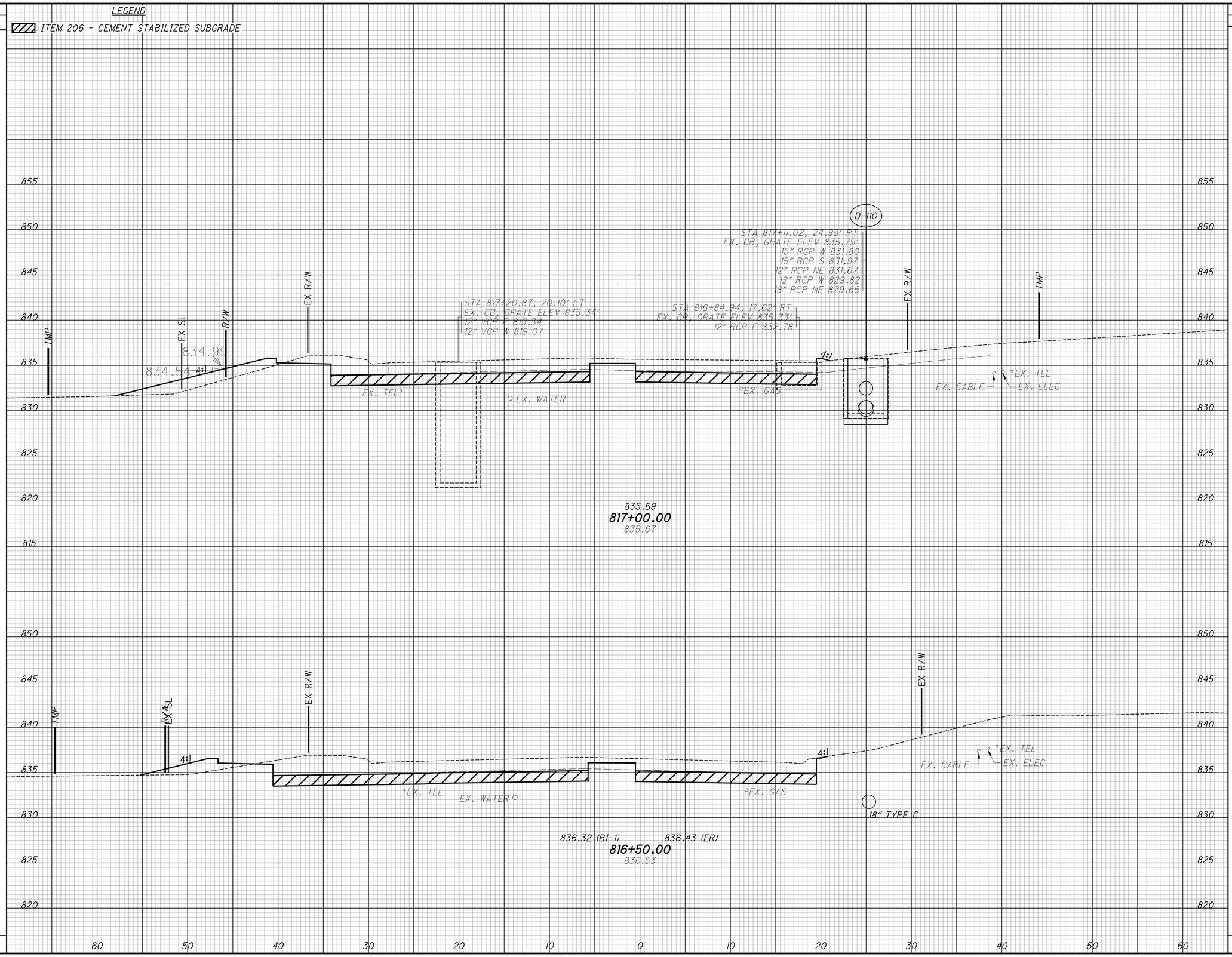
CROSS SECTIONS - EXISTING HUNT RD
STA. 815+50.00 TO STA. 816+00.00

HAM-PLAINFIELD RD
ROUNDABOUTS

SEEDING	
END WIDTH	SQ. YDS.

LEGEND

ITEM 206 - CEMENT STABILIZED SUBGRADE



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
LZS	JS

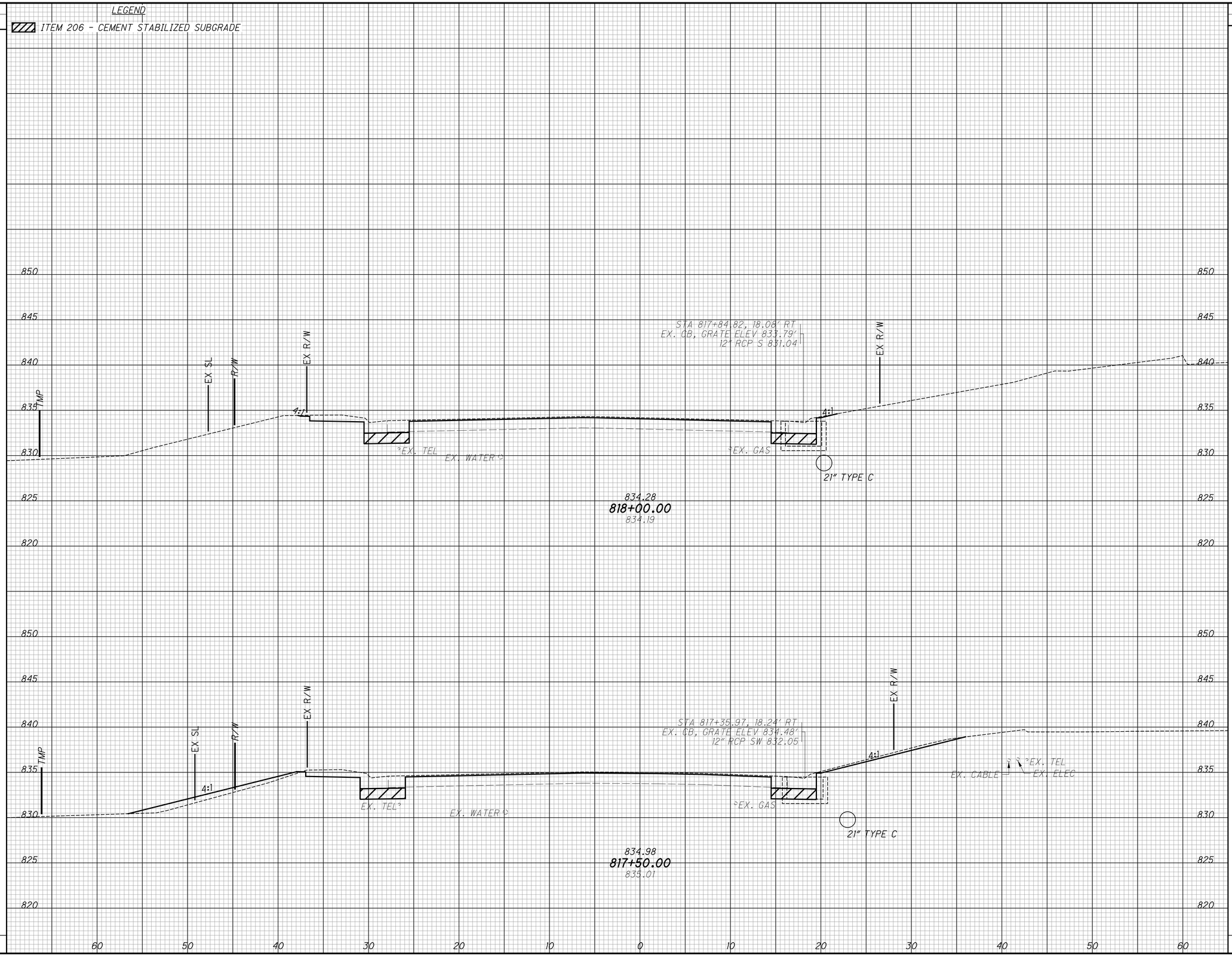
CROSS SECTIONS - EXISTING HUNT RD
STA. 816+50.00 TO STA. 817+00.00

HAM-PLAINFIELD RD ROUNDABOUTS

SEEDING	
END WIDTH	SQ. YDS.

LEGEND

ITEM 206 - CEMENT STABILIZED SUBGRADE



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
LZS	JS

CROSS SECTIONS - EXISTING HUNT RD
STA. 817+50.00 TO STA. 818+00.00

HAM-PLAINFIELD RD ROUNDABOUTS

SEEDING	
END WIDTH	SQ. YDS.

LEGEND

ITEM 206 - CEMENT STABILIZED SUBGRADE

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED LZS

CHECKED JS

845 840 835 830 825

819+00.00
832.97

850 845 840 835 830 825 820

STA 818+43.17, 30.19' LT
EX. CB, GRATE ELEV 832.91'
21" RCP S 827.21
21" RCP NE 827.06

D-113

STA 818+42.65, 18.12' RT
EX. CB, GRATE ELEV 832.90'
18" RCP SW 828.14
18" RCP SE 827.94
21" RCP N 827.80

D-112

EX SW

R/W

EX R/W

EX LA

4:1

4:1

EX. TEL

EX. WATER

EX. GAS

833.58
818+50.00
833.58

60 50 40 30 20 10 0 10 20 30 40 50 60

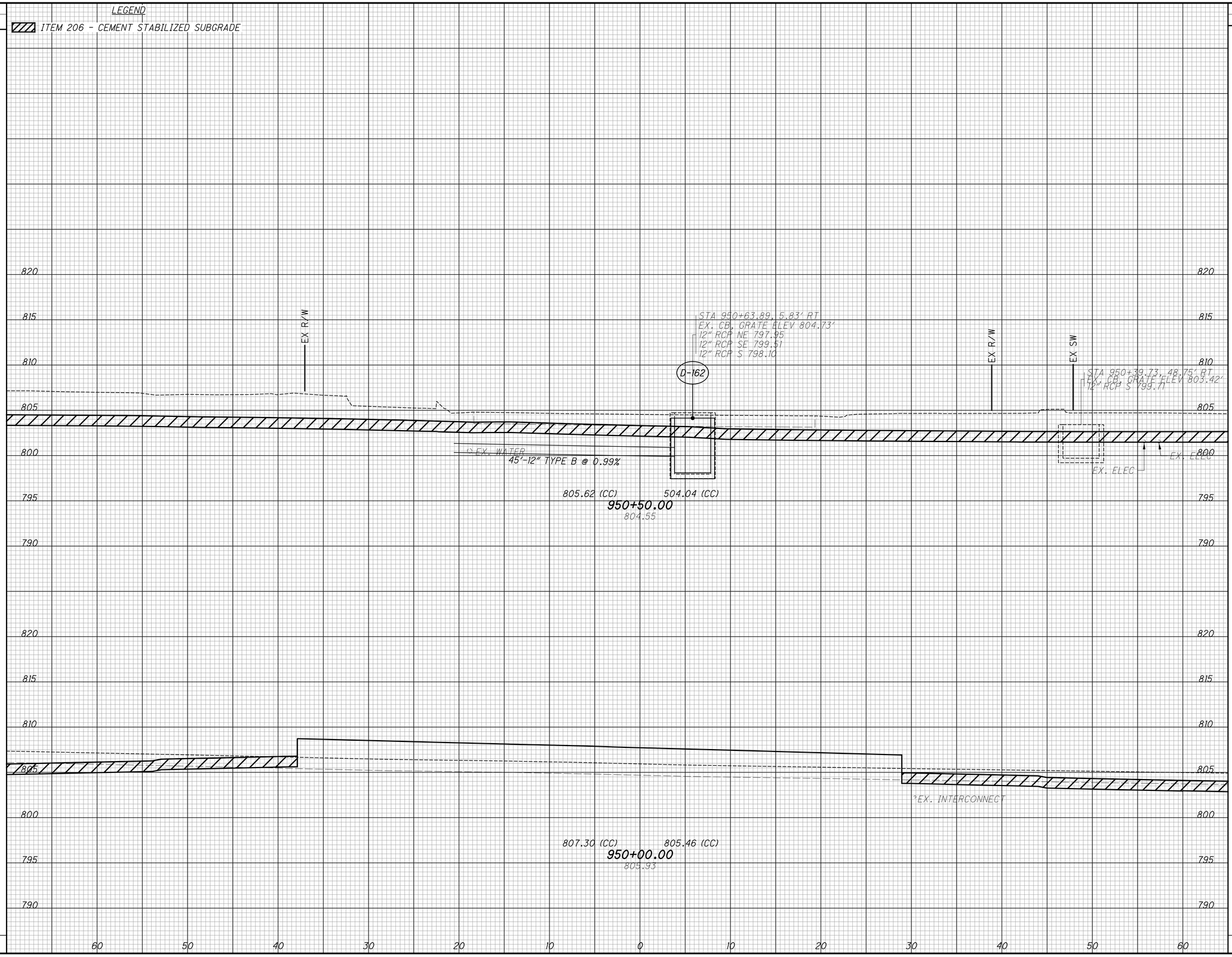
CROSS SECTIONS - EXISTING HUNT RD
STA. 818+50.00 TO STA. 819+00.00

HAM-PLAINFIELD RD ROUNDABOUTS

SEEDING	
END WIDTH	SQ. YDS.

LEGEND

ITEM 206 - CEMENT STABILIZED SUBGRADE

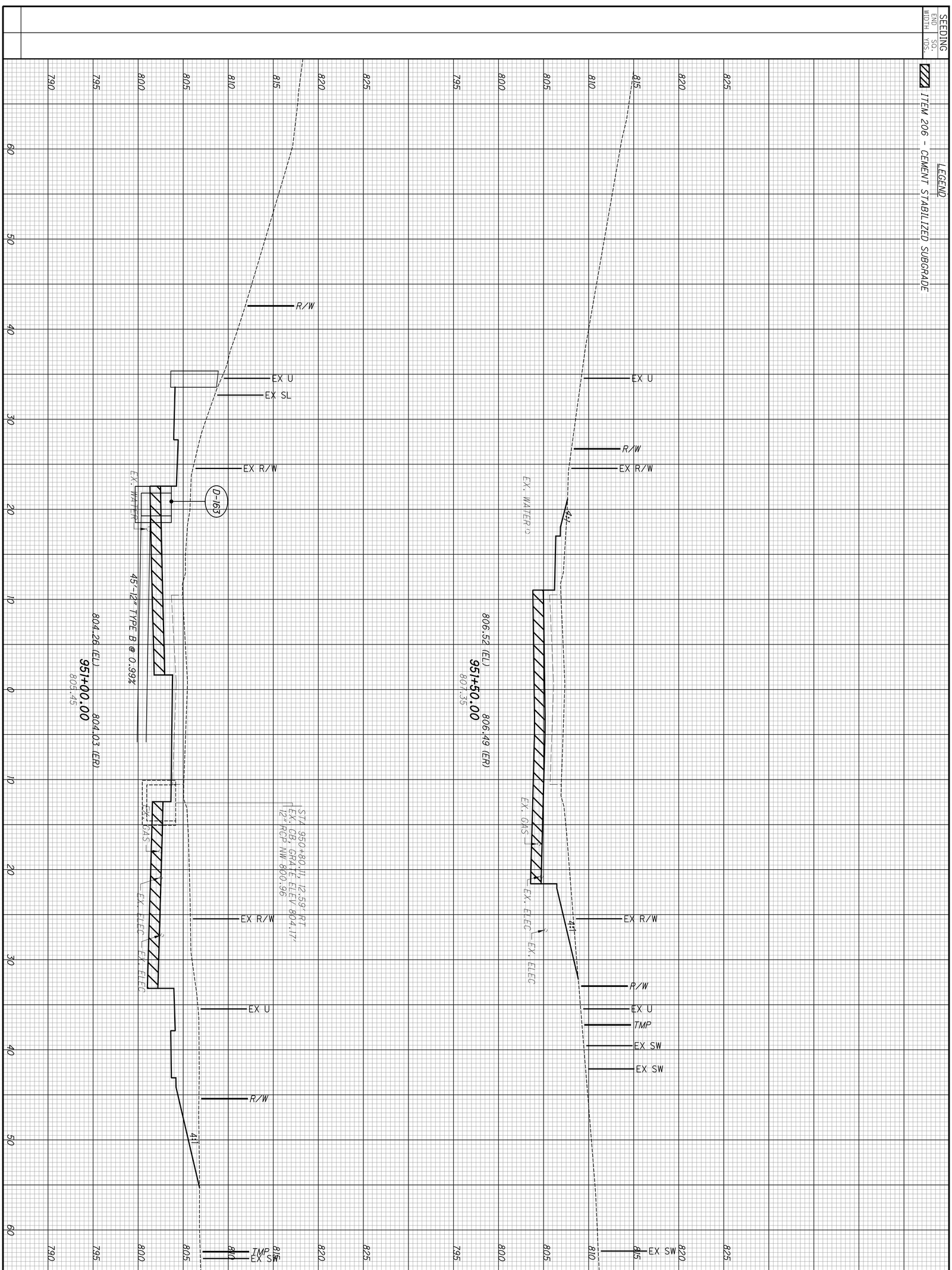


END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
LZS	JS

CROSS SECTIONS - PEPPERMILL LN
STA. 950+00.00 TO STA. 950+50.00

HAM-PLAINFIELD RD
ROUNDABOUTS



END AREA CUT FILL

VOLUME CUT FILL

216
335

HAM-PLAINFIELD RD ROUNDABOUTS

CROSS SECTIONS - PEPPERMILL LN
STA. 951+00.00 TO STA. 951+50.00

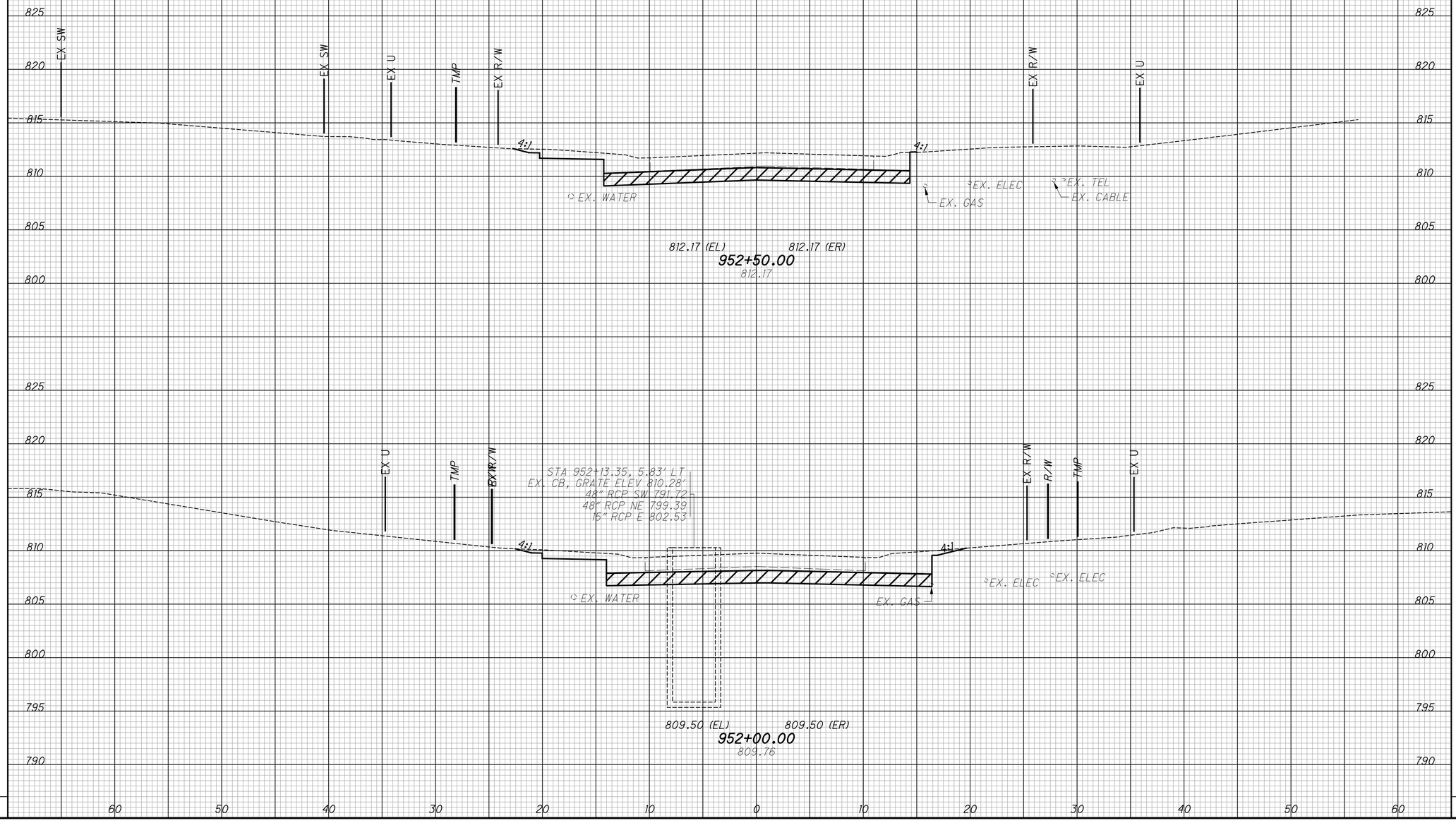
CALCULATED LZS

CHECKED JS

SEEDING	
END WIDTH	SQ. YDS.

LEGEND

ITEM 206 - CEMENT STABILIZED SUBGRADE



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
LZS	JS

CROSS SECTIONS - PEPPERMILL LN
STA. 952+00.00 TO STA. 952+50.00

HAM-PLAINFIELD RD ROUNDABOUTS

SEEDING	
END WIDTH	SQ. YDS.

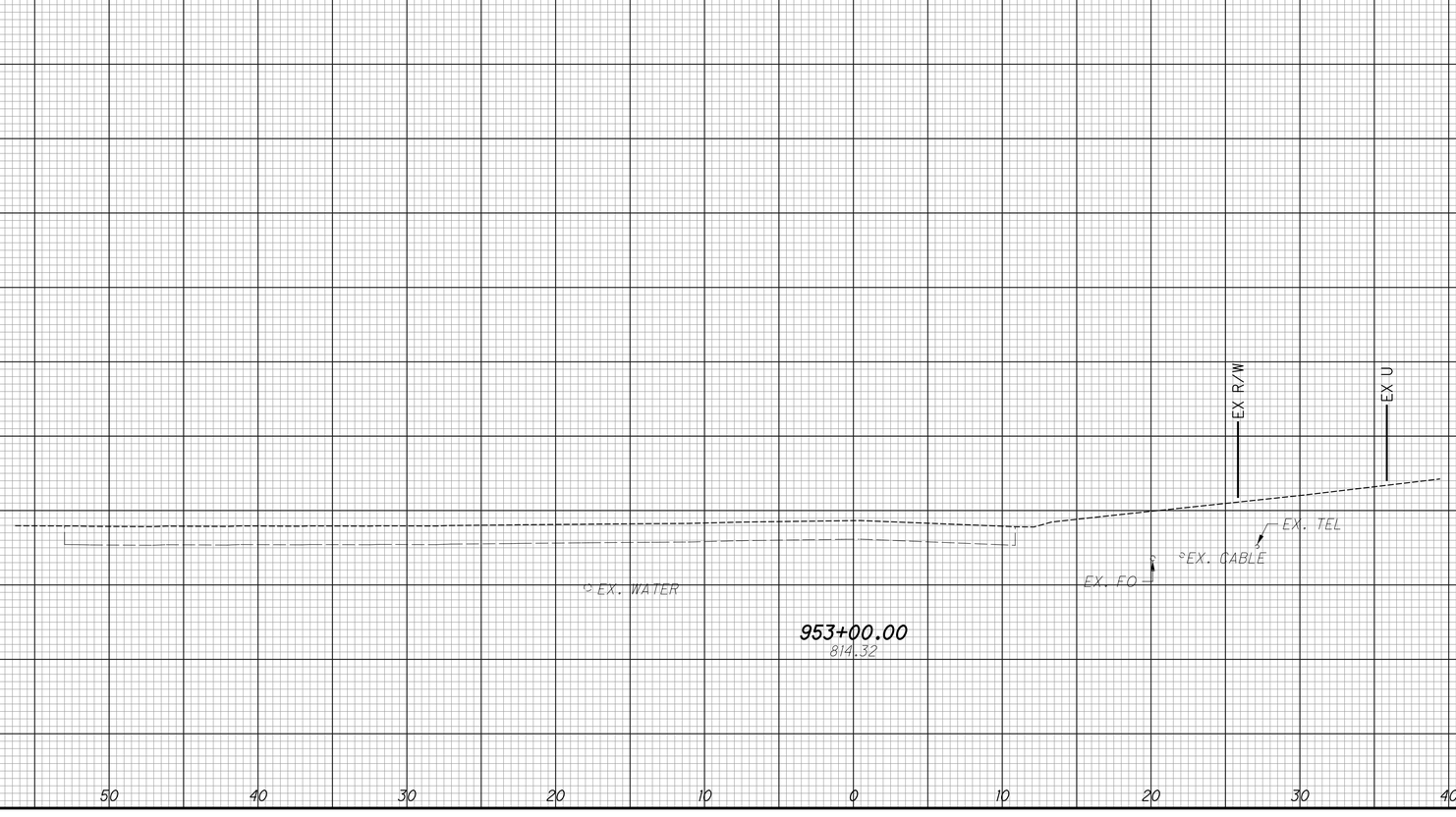
LEGEND

ITEM 206 - CEMENT STABILIZED SUBGRADE

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED LZS

CHECKED JS



CROSS SECTIONS - PEPPERMILL LN
STA. 953+00.00

HAM-PLAINFIELD RD ROUNDABOUTS

SEEDING	
END WIDTH	SQ. YDS.

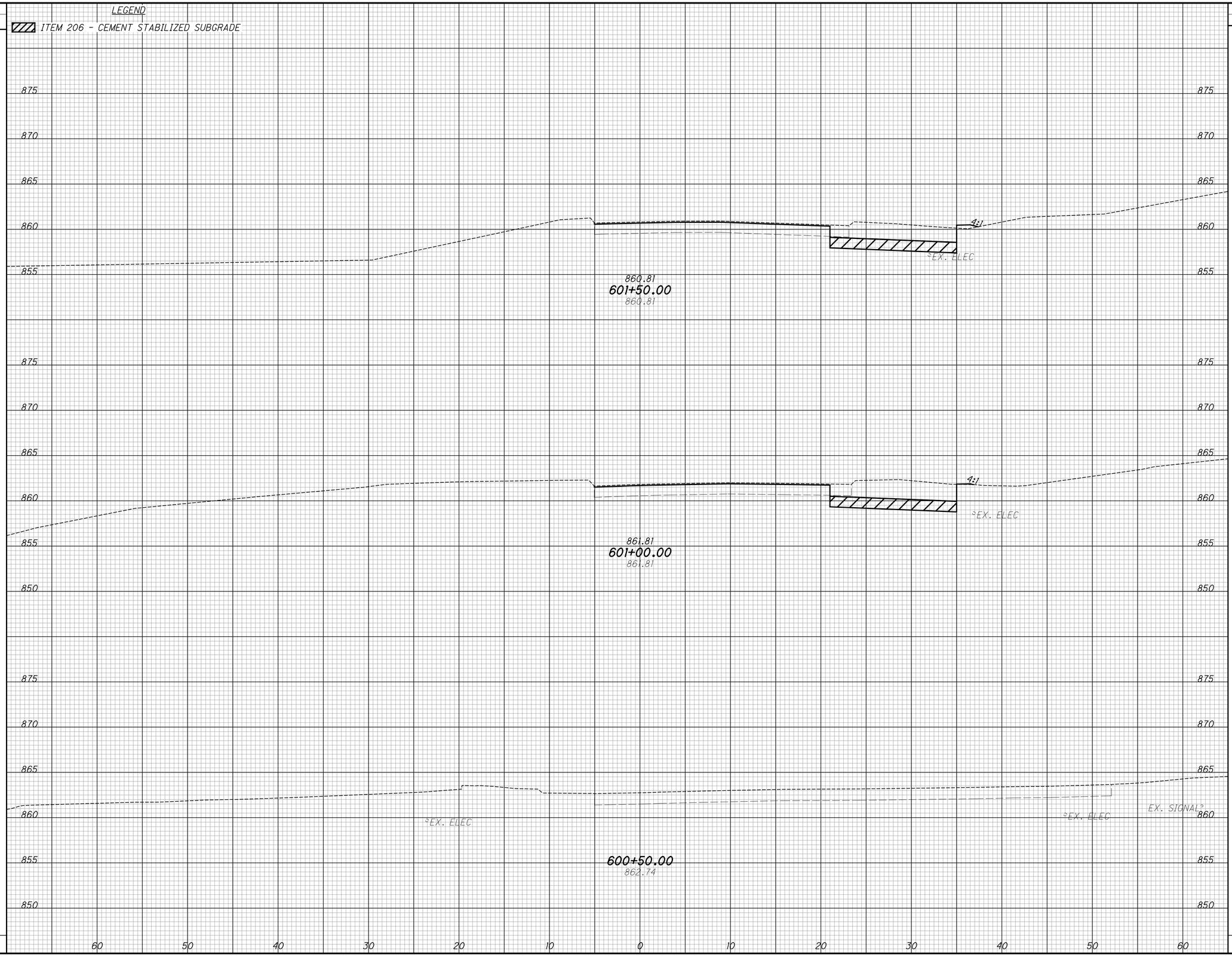
LEGEND

ITEM 206 - CEMENT STABILIZED SUBGRADE

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED LZS

CHECKED JS



CROSS SECTIONS - SR 126 ENTRANCE RAMP STA. 600+50.00 TO STA. 601+50.00

HAM-PLAINFIELD RD ROUNDABOUTS

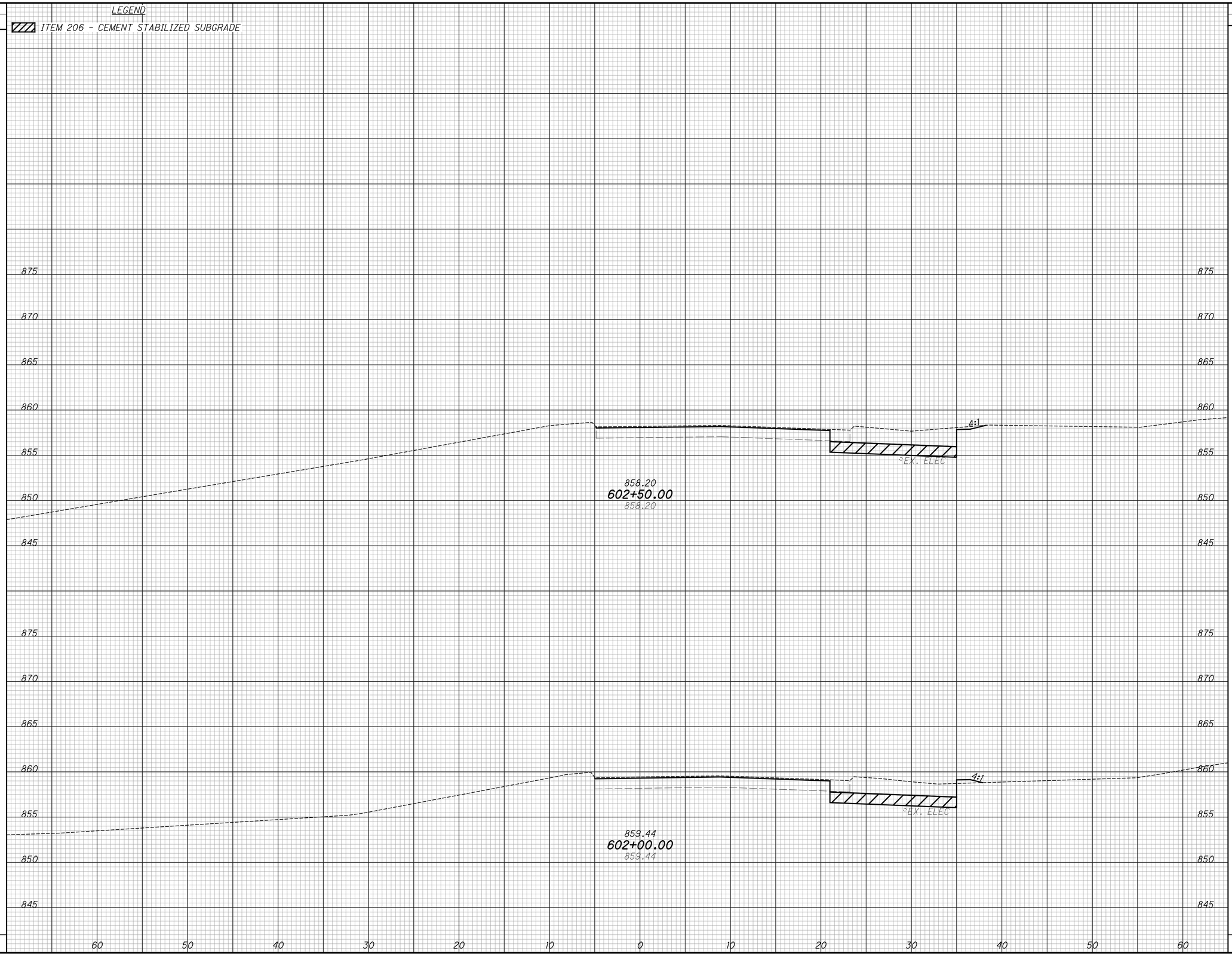
SEEDING	
END WIDTH	SQ. YDS.

LEGEND

ITEM 206 - CEMENT STABILIZED SUBGRADE

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
LZS	JS



CROSS SECTIONS - SR 126 ENTRANCE RAMP
STA. 602+00.00 TO STA. 602+50.00

HAM-PLAINFIELD RD ROUNDABOUTS

SEEDING	
END WIDTH	SQ. YDS.

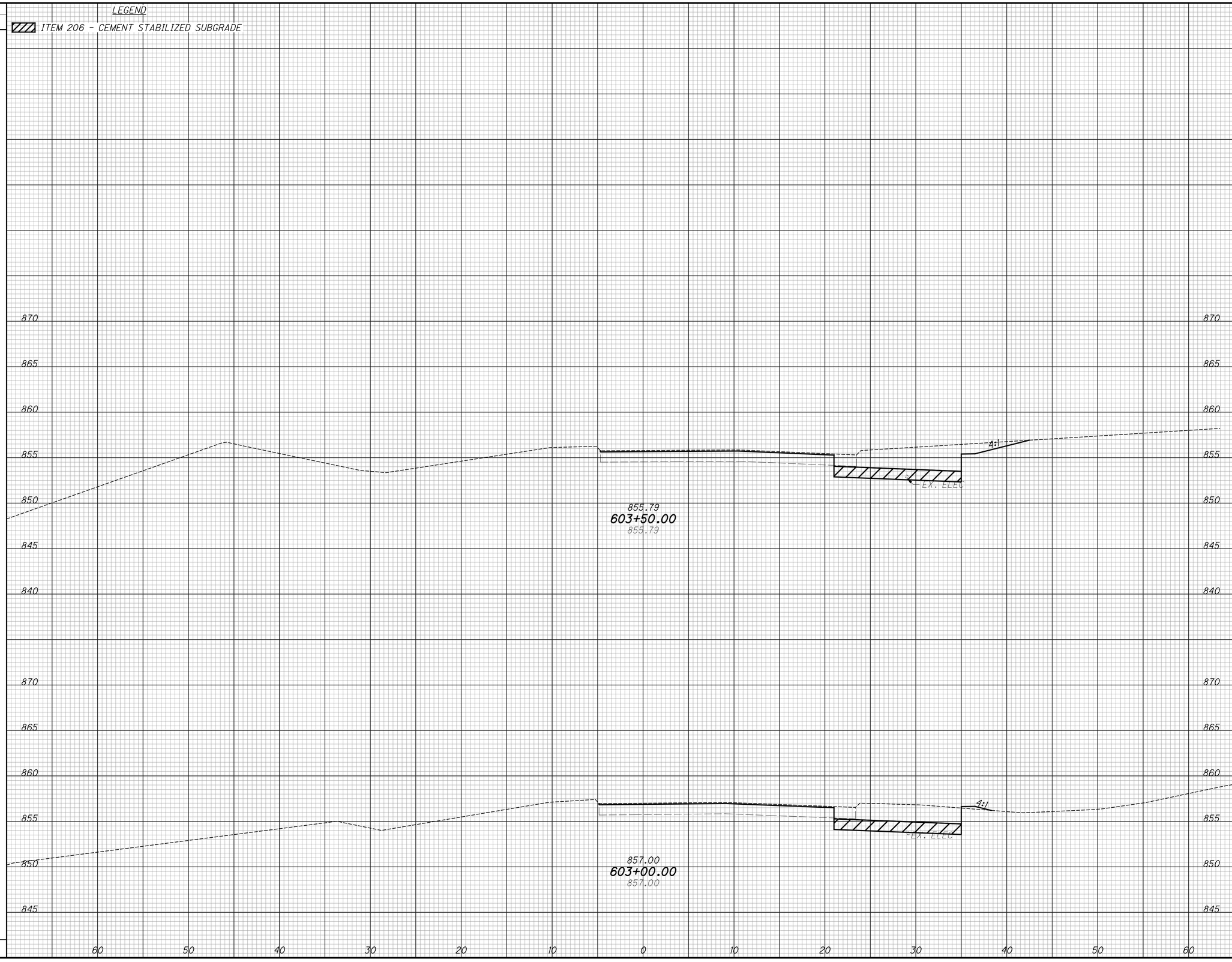
LEGEND

ITEM 206 - CEMENT STABILIZED SUBGRADE

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED LZS

CHECKED JS



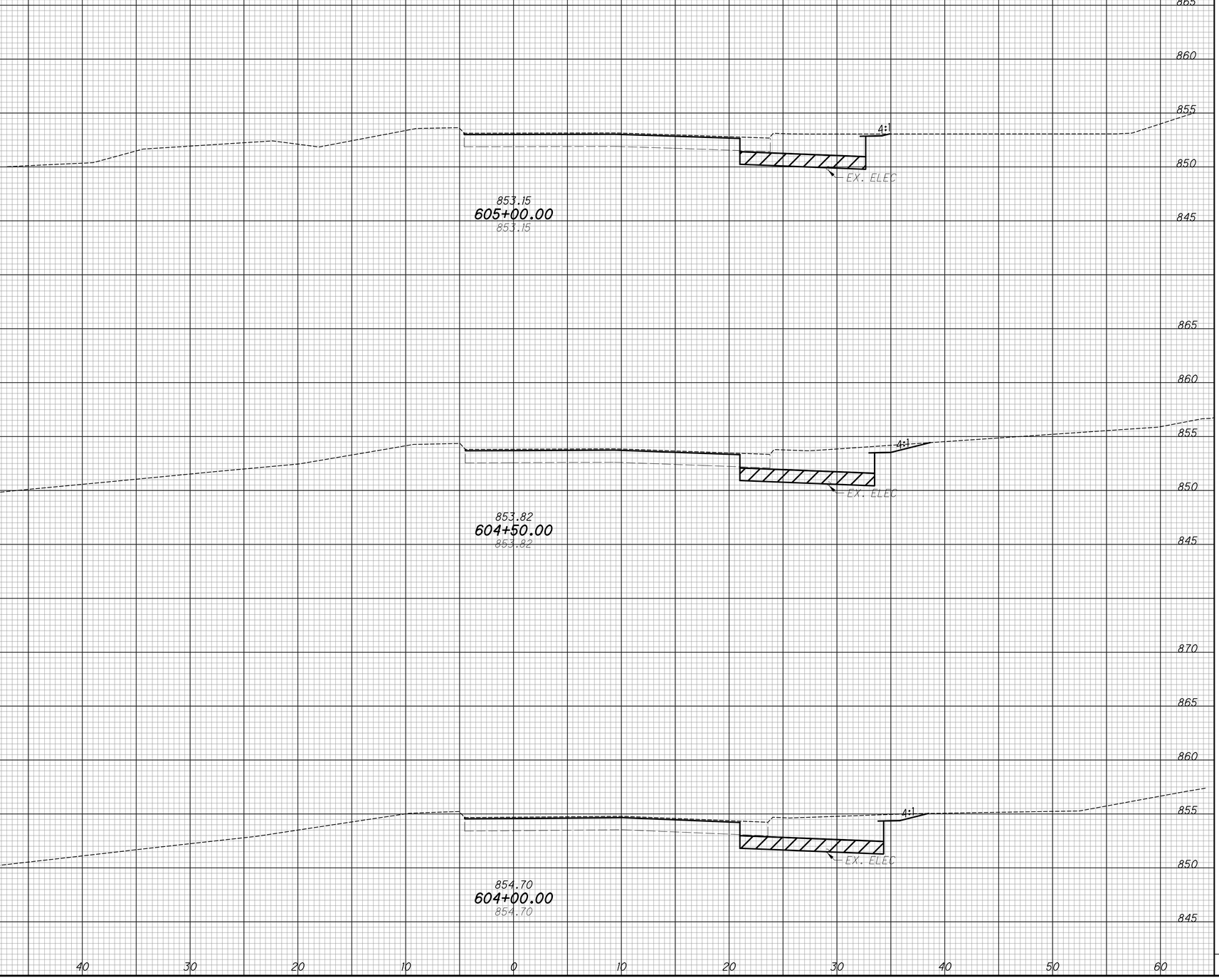
CROSS SECTIONS - SR 126 ENTRANCE RAMP STA. 603+00.00 TO STA. 603+50.00

HAM-PLAINFIELD RD ROUNDABOUTS

SEEDING	
END WIDTH	SQ. YDS.

LEGEND

ITEM 206 - CEMENT STABILIZED SUBGRADE



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED LZS

CHECKED JS

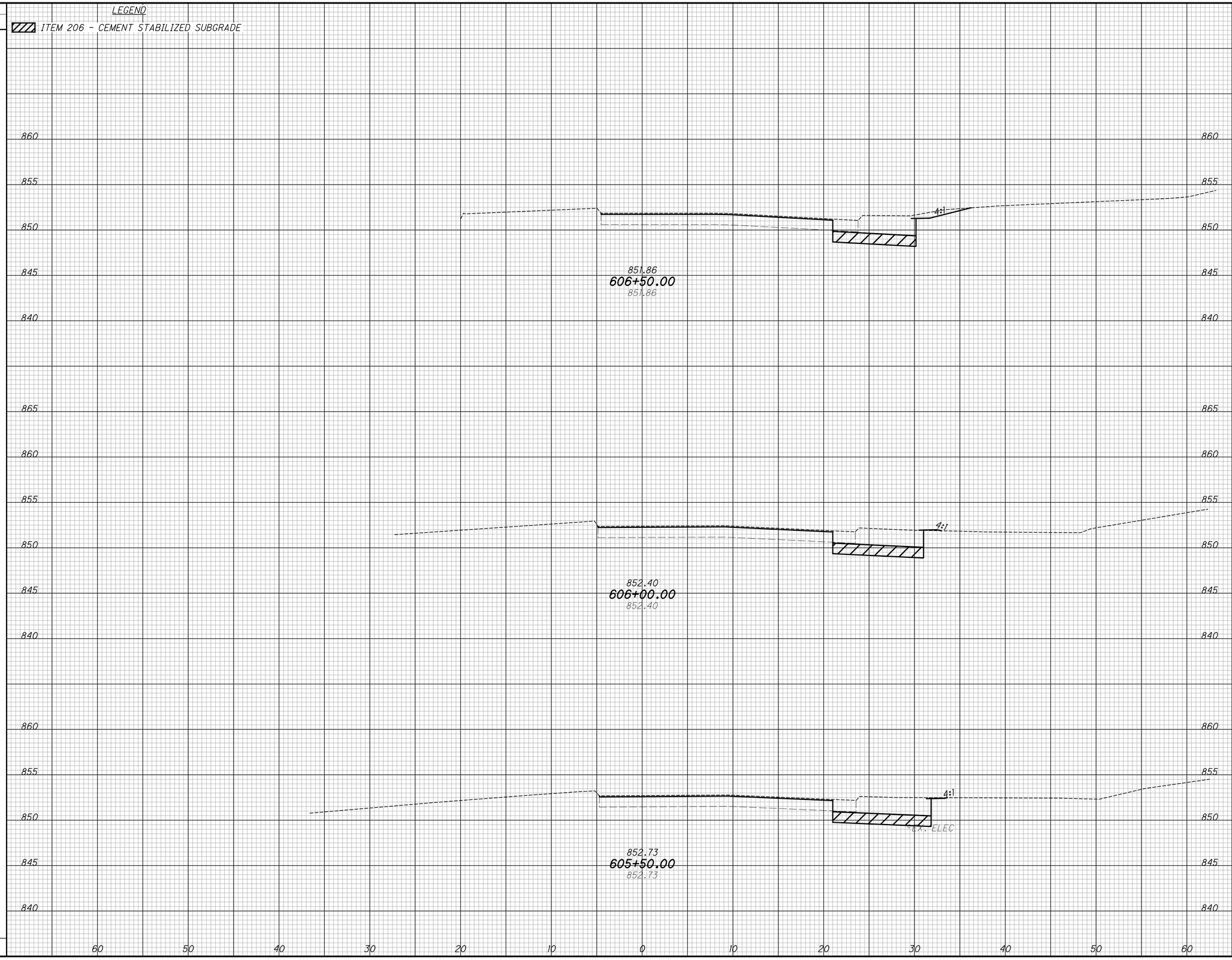
CROSS SECTIONS - SR 126 ENTRANCE RAMP
STA. 604+00.00 TO STA. 605+00.00

HAM-PLAINFIELD RD
ROUNDABOUTS

SEEDING	
END WIDTH	SQ. YDS.

LEGEND

ITEM 206 - CEMENT STABILIZED SUBGRADE



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED LZS

CHECKED JS

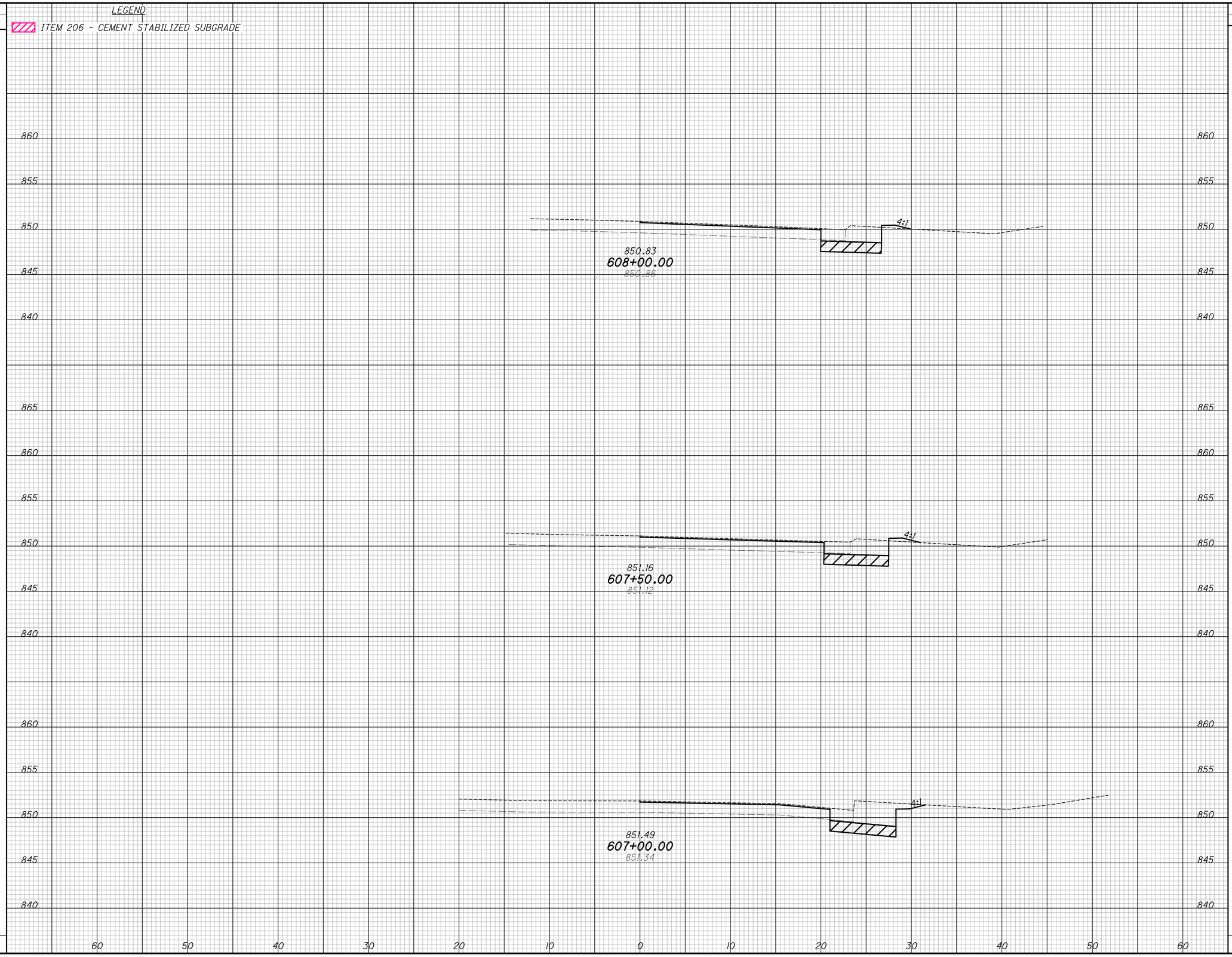
CROSS SECTIONS - SR 126 ENTRANCE RAMP STA. 605+50.00 TO STA. 606+50.00

HAM-PLAINFIELD RD ROUNDABOUTS

SEEDING	
END WIDTH	SQ. YDS.

LEGEND

ITEM 206 - CEMENT STABILIZED SUBGRADE



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
LZS	JS

CROSS SECTIONS - SR 126 ENTRANCE RAMP
STA. 607+00.00 TO STA. 608+00.00

HAM-PLAINFIELD RD ROUNDABOUTS

SEEDING	
END WIDTH	SQ. YDS.

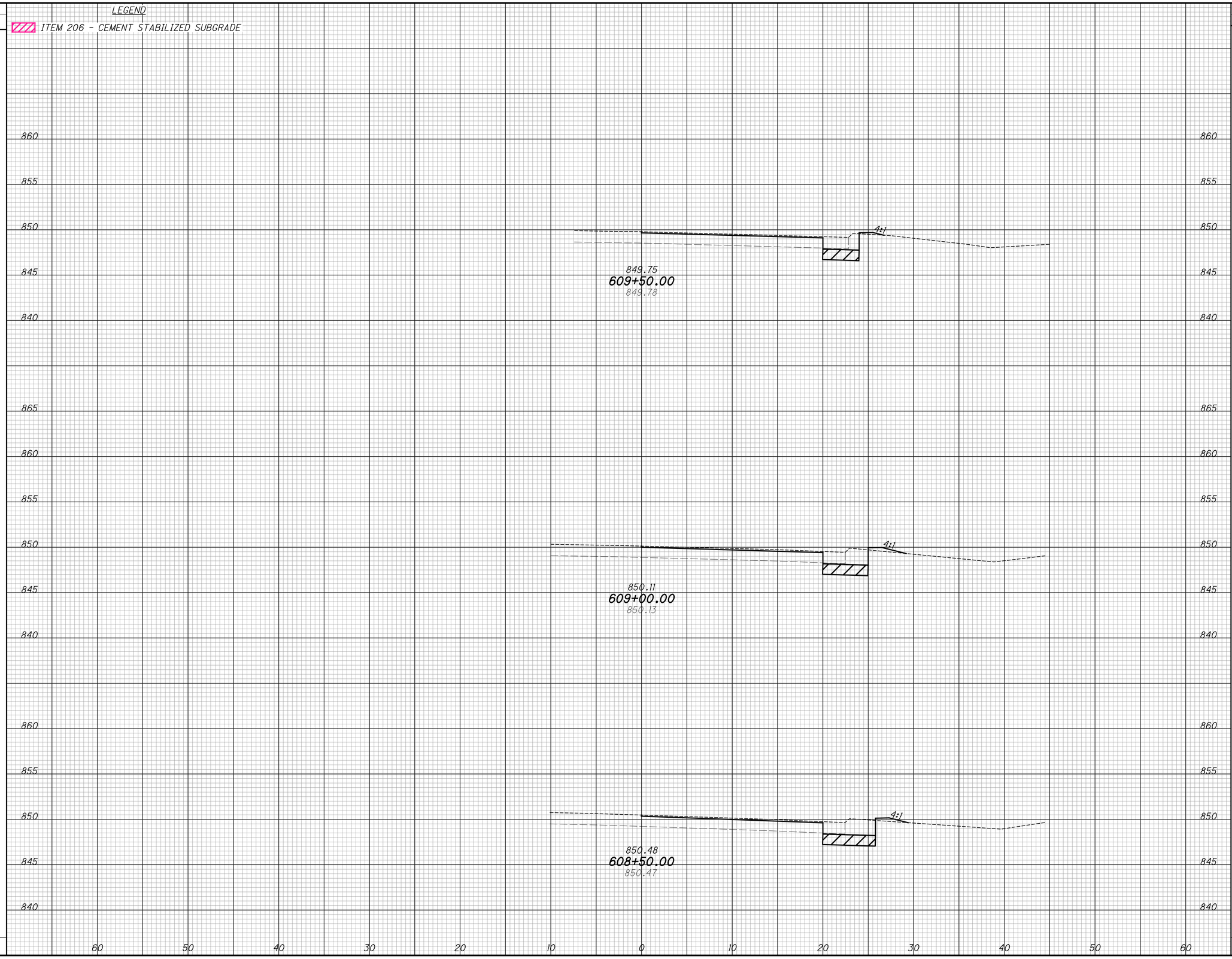
LEGEND

ITEM 206 - CEMENT STABILIZED SUBGRADE

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED LZS

CHECKED JS



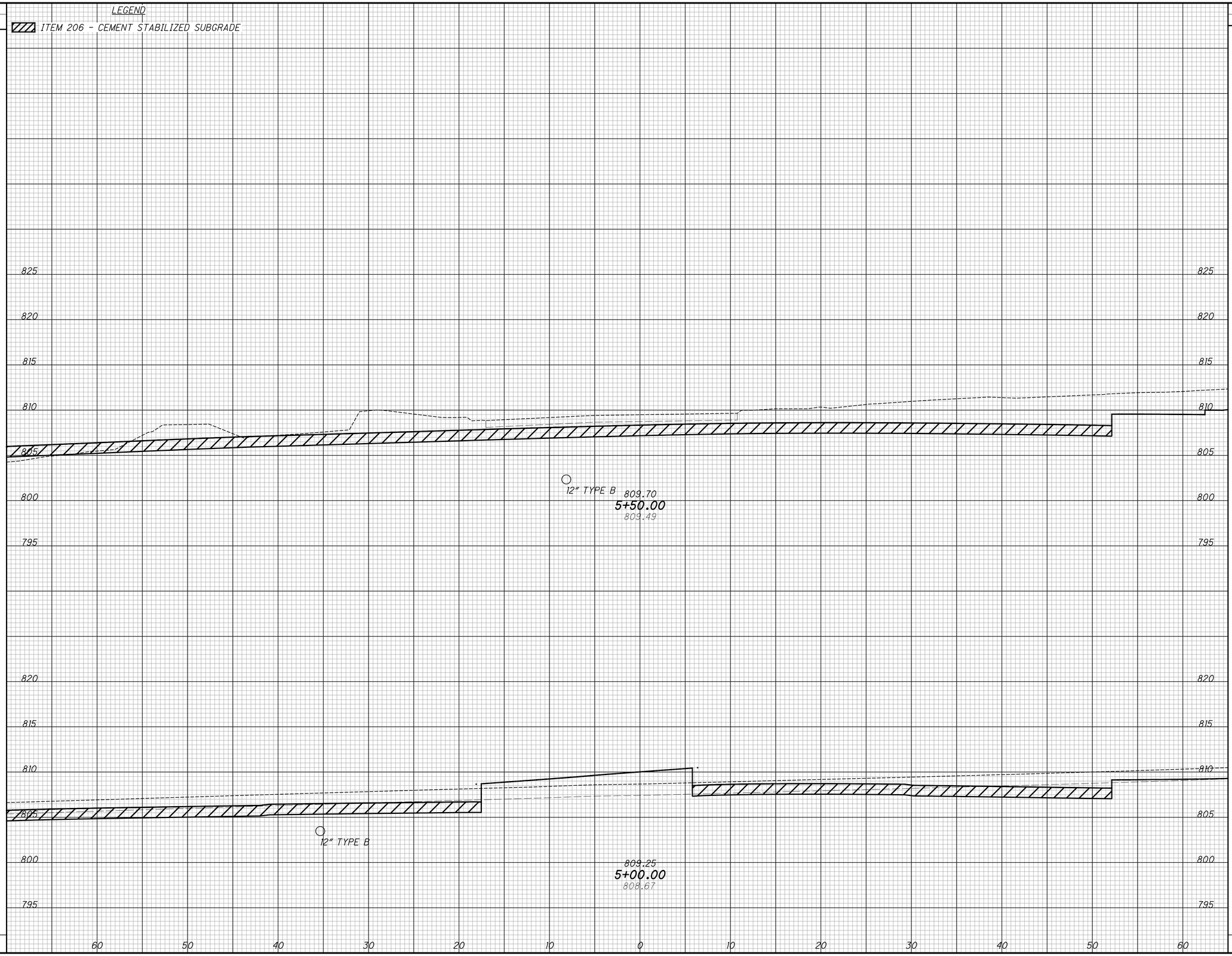
CROSS SECTIONS - SR 126 ENTRANCE RAMP STA. 608+50.00 TO STA. 609+50.00

HAM-PLAINFIELD RD ROUNDABOUTS

SEEDING	
END WIDTH	SQ. YDS.

LEGEND

ITEM 206 - CEMENT STABILIZED SUBGRADE



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
LZS	JS

CROSS SECTIONS - KROGER ENTRANCE
STA. 5+00.00 TO STA. 5+50.00

HAM-PLAINFIELD RD ROUNDABOUTS

SEEDING	
END WIDTH	SQ. YDS.

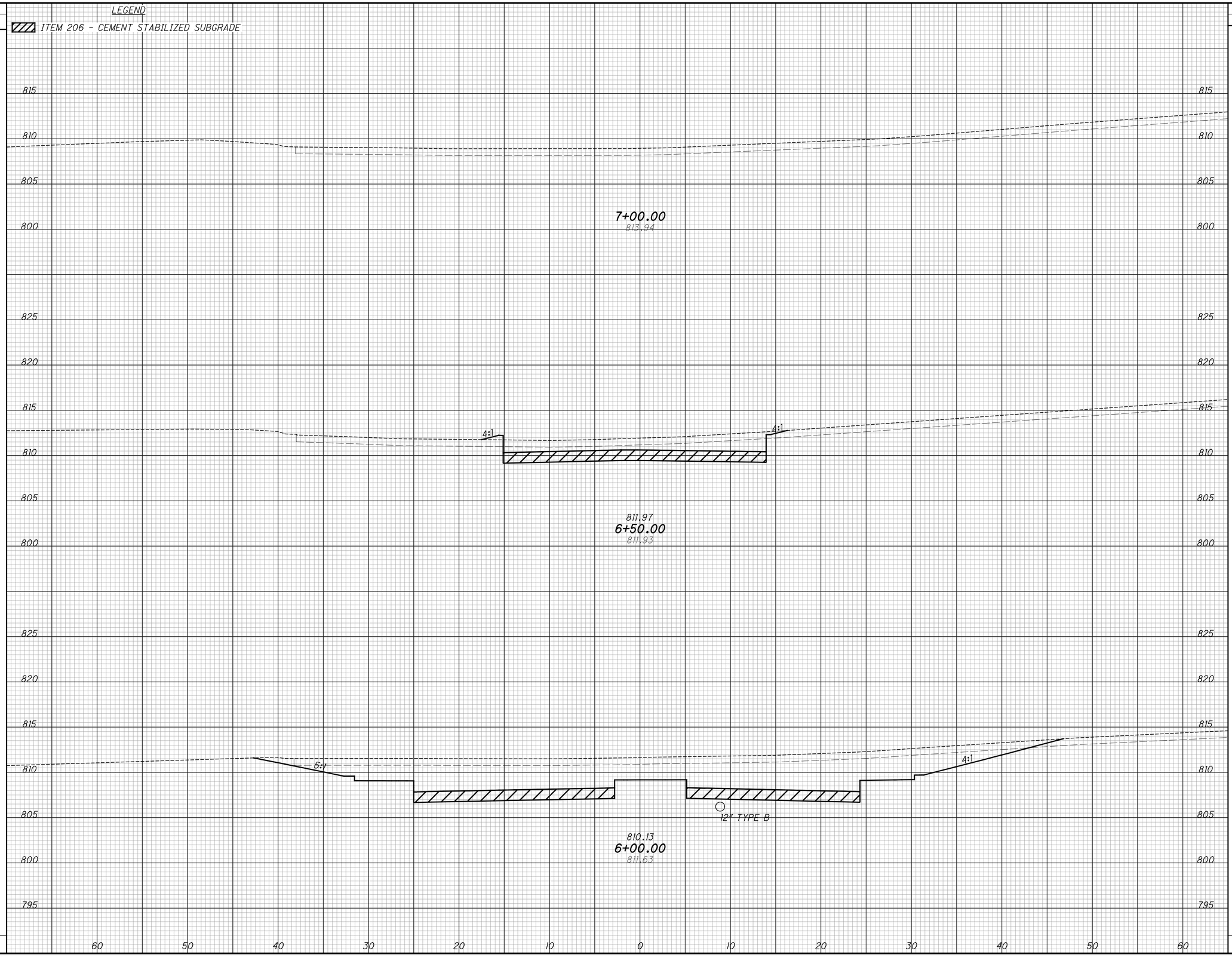
LEGEND

ITEM 206 - CEMENT STABILIZED SUBGRADE

END AREA		VOLUME	
CUT	FILL	CUT	FILL

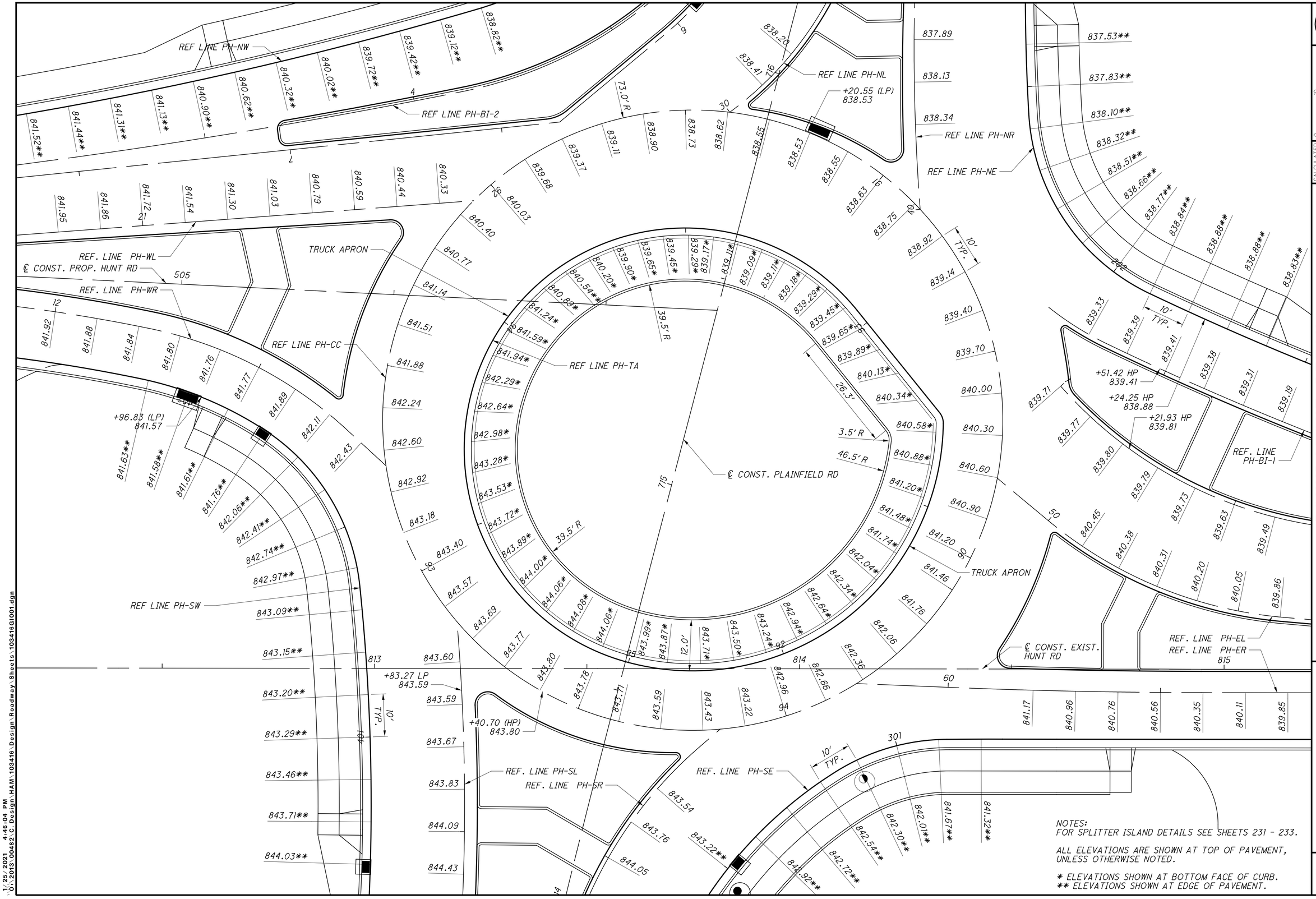
CALCULATED LZS

CHECKED JS



CROSS SECTIONS - KROGER ENTRANCE
STA. 6+00.00 TO STA. 7+00.00

HAM-PLAINFIELD RD ROUNDABOUTS



HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED CML
CHECKED JS

ROUNDABOUT DETAIL
PLAINFIELD RD & HUNT RD

HAM-PLAINFIELD RD ROUNDABOUTS

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NOTES:
FOR SPLITTER ISLAND DETAILS SEE SHEETS 234 - 235.

ALL ELEVATIONS ARE SHOWN AT TOP OF PAVEMENT, UNLESS OTHERWISE NOTED.

* ELEVATIONS SHOWN AT BOTTOM FACE OF CURB.
** ELEVATIONS SHOWN AT EDGE OF PAVEMENT.

HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED CML
CHECKED JS

ROUNDABOUT DETAIL
& PEPPERMILL LN

HAM-PLAINFIELD RD
ROUNDABOUTS

229
335

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AREA RESERVED FOR MANUFACTURED SYSTEM

REF LINE HK-NW

REF LINE HK-NL

REF LINE HK-NR

REF LINE HK-NE

+46.12 HP
809.74

+71.43 LP
809.21

+04.96 LP
809.11

REF LINE HK-WL

REF LINE HK-WR

REF LINE HK-WE

+33.59 LP
807.16

REF LINE HK-EL

REF LINE HK-ER

+70.00 HP
810.00

TRUCK APRON

REF LINE HK-CC

℄ CONST KROGER ENTRANCE

℄ CONST EXIST. HUNT RD

10'
TYP.

10'
TYP

HORIZONTAL
SCALE IN FEET
0 5 10 20

CALCULATED CML
CHECKED JS

ROUNDABOUT DETAIL
HUNT RD & KROGER ENTRANCE

HAM-PLAINFIELD RD
ROUNDABOUTS

230
335

NOTES:
FOR SPLITTER ISLAND DETAILS SEE SHEET 236.

ALL ELEVATIONS ARE SHOWN AT TOP OF PAVEMENT.

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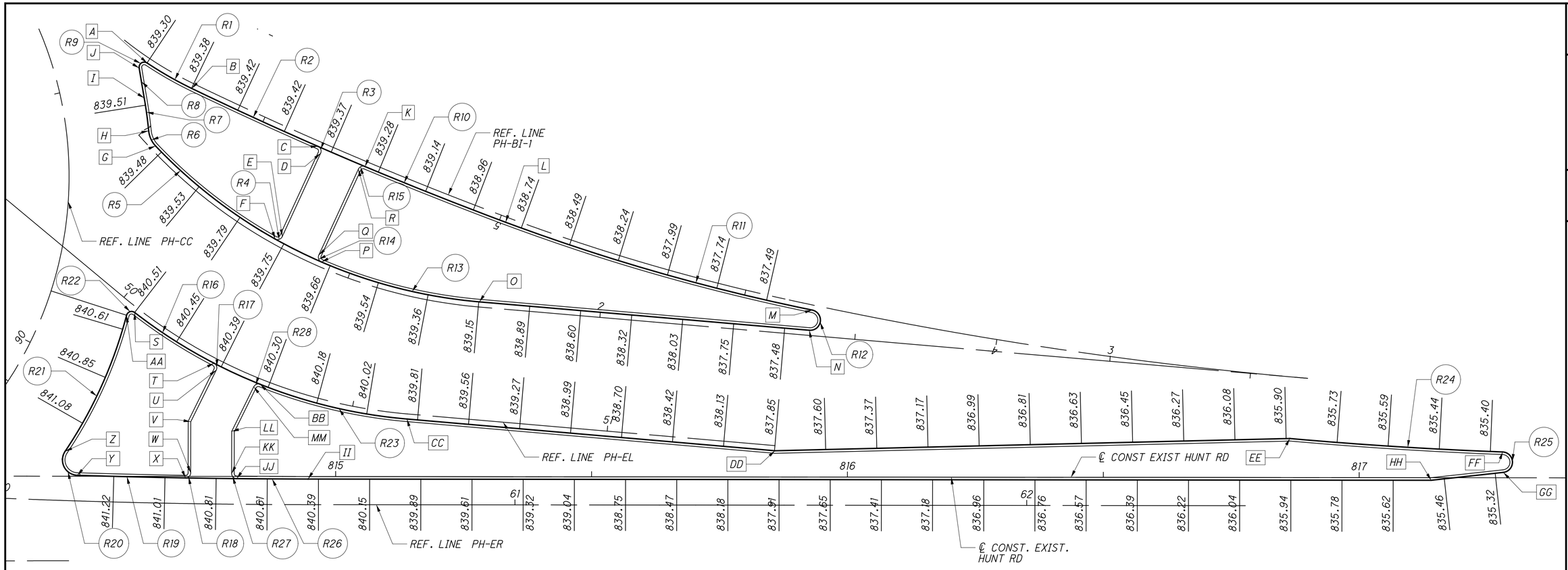

EAST ISLANDS

CURVE LAYOUT DATA (FACE OF CURB)				
NO.	RADIUS (FT)	Δ	TANGENT (FT)	LENGTH (FT)
R1	73.00	7° 54′ 40″	5.05	10.08
R2	723.00	2° 08′ 59″	13.57	27.13
R3	1.00	91° 11′ 49″	1.02	1.59
R4	1.00	94° 31′ 41″	1.08	1.65
R5	99.00	17° 10′ 52″	14.96	29.69
R6	5.00	37° 49′ 39″	1.71	3.3
R7	89.00	4° 09′ 51″	3.24	6.47
R8	498.00	0° 40′ 58″	2.97	5.94
R9	1.00	132° 48′ 31″	2.29	2.32
R10	723.00	2° 20′ 31″	14.78	29.55
R11	401.00	8° 54′ 42″	31.25	62.37
R12	2.00	173° 24′ 20″	34.72	6.05
R13	99.00	18° 30′ 54″	16.14	31.99
R14	1.00	91° 19′ 17″	1.02	1.59
R15	1.00	88° 00′ 42″	0.97	1.54

CURVE LAYOUT DATA (FACE OF CURB)				
NO.	RADIUS (FT)	Δ	TANGENT (FT)	LENGTH (FT)
R16	101.00	10° 27′ 30″	9.24	18.44
R17	1.00	89° 01′ 48″	0.98	1.55
R18	1.00	90° 55′ 05″	1.02	1.59
R19	1495.00	0° 48′ 37″	10.57	21.14
R20	3.00	122° 11′ 38″	5.43	6.4
R21	87.00	19° 17′ 37″	14.79	29.3
R22	1.00	113° 05′ 02″	1.51	1.97
R23	101.00	16° 46′ 38″	14.89	29.57
R24	812.00	2° 56′ 27″	20.84	41.68
R25	2.00	171° 38′ 06″	27.35	5.99
R26	1495.00	0° 32′ 05″	6.97	13.95
R27	1.00	89° 27′ 55″	0.99	1.56
R28	1.00	85° 20′ 52″	0.92	1.49

A STA 5+75.25 (BI-1), 1.0′ LT ELEV = 839.30
B STA 5+65.31 (BI-1), 1.0′ LT ELEV = 839.38
C STA 5+38.22 (BI-1), 1.0′ LT ELEV = 839.38
D STA 5+37.22 (BI-1), 2.0′ LT ELEV = 839.41
E STA 1+34.79 (BI-1), 2.1′ LT ELEV = 839.73
F STA 1+33.77 (BI-1), 1.0′ LT ELEV = 839.76
G STA 1+03.78 (BI-1), 1.0′ LT ELEV = 839.65
H STA 90+40.88 (CC), 16.0′ RT ELEV = 839.71
I STA 90+46.18 (CC), 16.0′ RT ELEV = 839.47
J STA 90+51.04 (CC), 16.2′ RT ELEV = 839.35
K STA 5+28.24 (BI-1), 1.0′ LT ELEV = 839.31
L STA 4+98.73 (BI-1), 1.0′ LT ELEV = 838.82
M STA 4+36.51 (BI-1), 1.0′ LT ELEV = 837.27
N STA 2+40.98 (BI-1), 1.0′ LT ELEV = 837.35
O STA 1+76.29 (BI-1), 1.0′ LT ELEV = 839.14
P STA 1+43.98 (BI-1), 1.0′ LT ELEV = 839.68
Q STA 1+42.96 (BI-1), 2.0′ LT ELEV = 839.65
R STA 5+29.24 (BI-1), 2.0′ LT ELEV = 839.34
S STA 50+03.47 (EL), 1.0′ RT ELEV = 840.51
T STA 50+21.72 (EL), 1.0′ RT ELEV = 840.39
U STA 50+22.70 (EL), 2.0′ RT ELEV = 840.42
V STA 60+36.39 (ER), 16.0′ LT ELEV = 840.67
W STA 60+36.55 (ER), 6.0′ LT ELEV = 840.89
X STA 60+35.54 (ER), 5.0′ LT ELEV = 840.93
Y STA 60+14.33 (ER), 5.0′ LT ELEV = 841.38
Z STA 94+45.59 (CC), 17.0′ RT ELEV = 841.25
AA STA 90+10.84 (CC), 15.5′ RT ELEV = 840.56
BB STA 50+31.53 (EL), 1.0′ RT ELEV = 840.32
CC STA 50+31.53 (EL), 1.0′ RT ELEV = 840.32
DD STA 51+32.92 (EL), 1.0′ RT ELEV = 837.86
EE STA 816+86.43 (HUNT), 7.6′ LT ELEV = 835.89
FF STA 817+28.02 (HUNT), 5.0′ LT ELEV = 835.37
GG STA 817+28.17 (HUNT), 1.1′ LT ELEV = 835.30
HH STA 817+14.05 (HUNT), 0.5′ RT ELEV = 835.50
II STA 60+59.58 (ER), 5.0′ LT ELEV = 840.44
JJ STA 60+45.58 (ER), 5.0′ LT ELEV = 840.73
KK STA 60+44.58 (ER), 6.0′ LT ELEV = 840.70
LL STA 60+44.50 (ER), 14.2′ LT ELEV = 840.54
MM STA 50+30.56 (EL), 1.9′ RT ELEV = 840.35

HORIZONTAL SCALE IN FEET
0 5 10 20
CALCULATED CML
CHECKED JS

SPLITTER ISLAND DETAILS
HAM-PLAINFIELD RD & HUNT RD
ROUNDABOUTS
PLAINFIELD RD

231
335

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1/25/2021 4:46:09 PM
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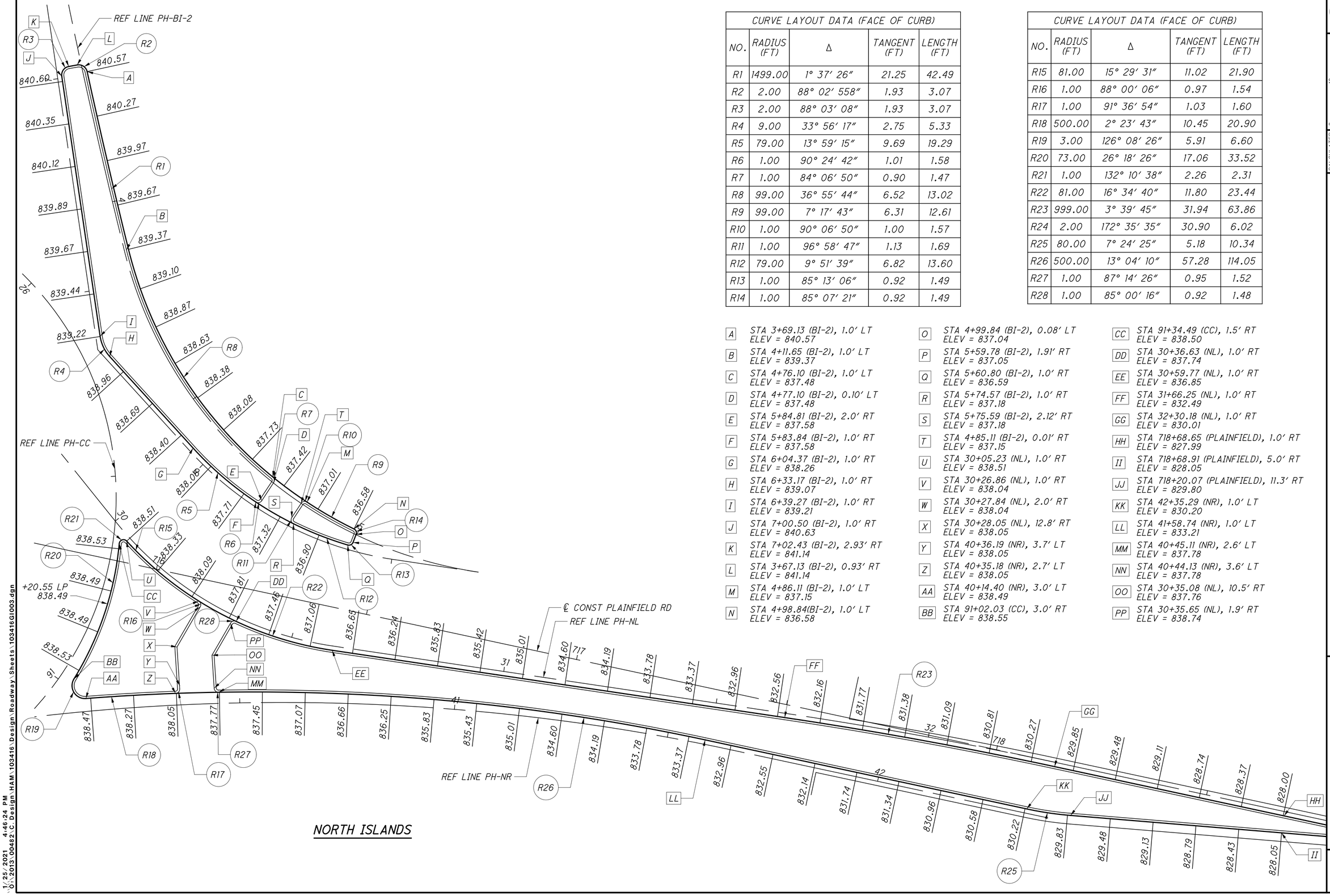

CURVE LAYOUT DATA (FACE OF CURB)				
NO.	RADIUS (FT)	Δ	TANGENT (FT)	LENGTH (FT)
R1	1499.00	1° 37′ 26″	21.25	42.49
R2	2.00	88° 02′ 558″	1.93	3.07
R3	2.00	88° 03′ 08″	1.93	3.07
R4	9.00	33° 56′ 17″	2.75	5.33
R5	79.00	13° 59′ 15″	9.69	19.29
R6	1.00	90° 24′ 42″	1.01	1.58
R7	1.00	84° 06′ 50″	0.90	1.47
R8	99.00	36° 55′ 44″	6.52	13.02
R9	99.00	7° 17′ 43″	6.31	12.61
R10	1.00	90° 06′ 50″	1.00	1.57
R11	1.00	96° 58′ 47″	1.13	1.69
R12	79.00	9° 51′ 39″	6.82	13.60
R13	1.00	85° 13′ 06″	0.92	1.49
R14	1.00	85° 07′ 21″	0.92	1.49

CURVE LAYOUT DATA (FACE OF CURB)				
NO.	RADIUS (FT)	Δ	TANGENT (FT)	LENGTH (FT)
R15	81.00	15° 29′ 31″	11.02	21.90
R16	1.00	88° 00′ 06″	0.97	1.54
R17	1.00	91° 36′ 54″	1.03	1.60
R18	500.00	2° 23′ 43″	10.45	20.90
R19	3.00	126° 08′ 26″	5.91	6.60
R20	73.00	26° 18′ 26″	17.06	33.52
R21	1.00	132° 10′ 38″	2.26	2.31
R22	81.00	16° 34′ 40″	11.80	23.44
R23	999.00	3° 39′ 45″	31.94	63.86
R24	2.00	172° 35′ 35″	30.90	6.02
R25	80.00	7° 24′ 25″	5.18	10.34
R26	500.00	13° 04′ 10″	57.28	114.05
R27	1.00	87° 14′ 26″	0.95	1.52
R28	1.00	85° 00′ 16″	0.92	1.48

A STA 3+69.13 (BI-2), 1.0′ LT ELEV = 840.57
B STA 4+11.65 (BI-2), 1.0′ LT ELEV = 839.37
C STA 4+76.10 (BI-2), 1.0′ LT ELEV = 837.48
D STA 4+77.10 (BI-2), 0.10′ LT ELEV = 837.48
E STA 5+84.81 (BI-2), 2.0′ RT ELEV = 837.58
F STA 5+83.84 (BI-2), 1.0′ RT ELEV = 837.58
G STA 6+04.37 (BI-2), 1.0′ RT ELEV = 838.26
H STA 6+33.17 (BI-2), 1.0′ RT ELEV = 839.07
I STA 6+39.27 (BI-2), 1.0′ RT ELEV = 839.21
J STA 7+00.50 (BI-2), 1.0′ RT ELEV = 840.63
K STA 7+02.43 (BI-2), 2.93′ RT ELEV = 841.14
L STA 3+67.13 (BI-2), 0.93′ RT ELEV = 841.14
M STA 4+86.11 (BI-2), 1.0′ LT ELEV = 837.15
N STA 4+98.84(BI-2), 1.0′ LT ELEV = 836.58
O STA 4+99.84 (BI-2), 0.08′ LT ELEV = 837.04
P STA 5+59.78 (BI-2), 1.91′ RT ELEV = 837.05
Q STA 5+60.80 (BI-2), 1.0′ RT ELEV = 836.59
R STA 5+74.57 (BI-2), 1.0′ RT ELEV = 837.18
S STA 5+75.59 (BI-2), 2.12′ RT ELEV = 837.18
T STA 4+85.11 (BI-2), 0.01′ RT ELEV = 837.15
U STA 30+05.23 (NL), 1.0′ RT ELEV = 838.51
V STA 30+26.86 (NL), 1.0′ RT ELEV = 838.04
W STA 30+27.84 (NL), 2.0′ RT ELEV = 838.04
X STA 30+28.05 (NL), 12.8′ RT ELEV = 838.05
Y STA 40+36.19 (NR), 3.7′ LT ELEV = 838.05
Z STA 40+35.18 (NR), 2.7′ LT ELEV = 838.05
AA STA 40+14.40 (NR), 3.0′ LT ELEV = 838.49
BB STA 91+02.03 (CC), 3.0′ RT ELEV = 838.55
CC STA 91+34.49 (CC), 1.5′ RT ELEV = 838.50
DD STA 30+36.63 (NL), 1.0′ RT ELEV = 837.74
EE STA 30+59.77 (NL), 1.0′ RT ELEV = 836.85
FF STA 31+66.25 (NL), 1.0′ RT ELEV = 832.49
GG STA 32+30.18 (NL), 1.0′ RT ELEV = 830.01
HH STA 718+68.65 (PLAINFIELD), 1.0′ RT ELEV = 827.99
II STA 718+68.91 (PLAINFIELD), 5.0′ RT ELEV = 828.05
JJ STA 718+20.07 (PLAINFIELD), 11.3′ RT ELEV = 829.80
KK STA 42+35.29 (NR), 1.0′ LT ELEV = 830.20
LL STA 41+58.74 (NR), 1.0′ LT ELEV = 833.21
MM STA 40+45.11 (NR), 2.6′ LT ELEV = 837.78
NN STA 40+44.13 (NR), 3.6′ LT ELEV = 837.78
OO STA 30+35.08 (NL), 10.5′ RT ELEV = 837.76
PP STA 30+35.65 (NL), 1.9′ RT ELEV = 838.74

HORIZONTAL SCALE IN FEET
0 5 10 20
CALCULATED CML
CHECKED JS

SPLITTER ISLAND DETAILS
PLAINFIELD RD & HUNT RD
HAM-PLAINFIELD RD ROUNDABOUTS

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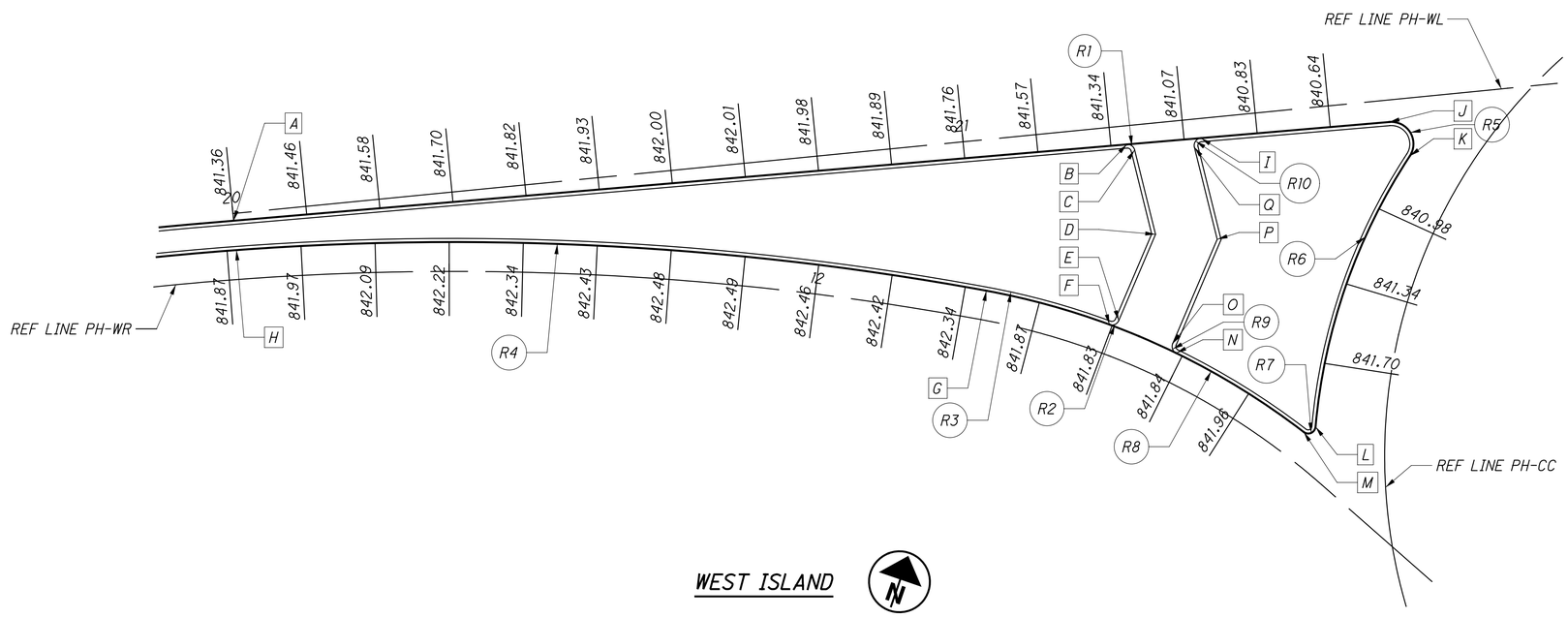
CURVE LAYOUT DATA (FACE OF CURB)				
NO.	RADIUS (FT)	Δ	TANGENT (FT)	LENGTH (FT)
R1	1.00	80° 56′ 51″	0.85	1.41
R2	1.00	87° 11′ 25″	0.95	1.52
R3	101.00	9° 52′ 59″	8.73	17.42
R4	401.00	32° 10′ 04″	115.62	225.13
R5	3.00	128° 57′ 24″	6.28	6.75
R6	80.00	28° 16′ 22″	20.15	39.48
R7	1.00	122° 28′ 32″	1.82	2.14
R8	101.00	11° 36′ 41″	10.27	20.47
R9	1.00	87° 11′ 25″	0.95	1.52
R10	1.00	99° 03′ 09″	1.17	1.73

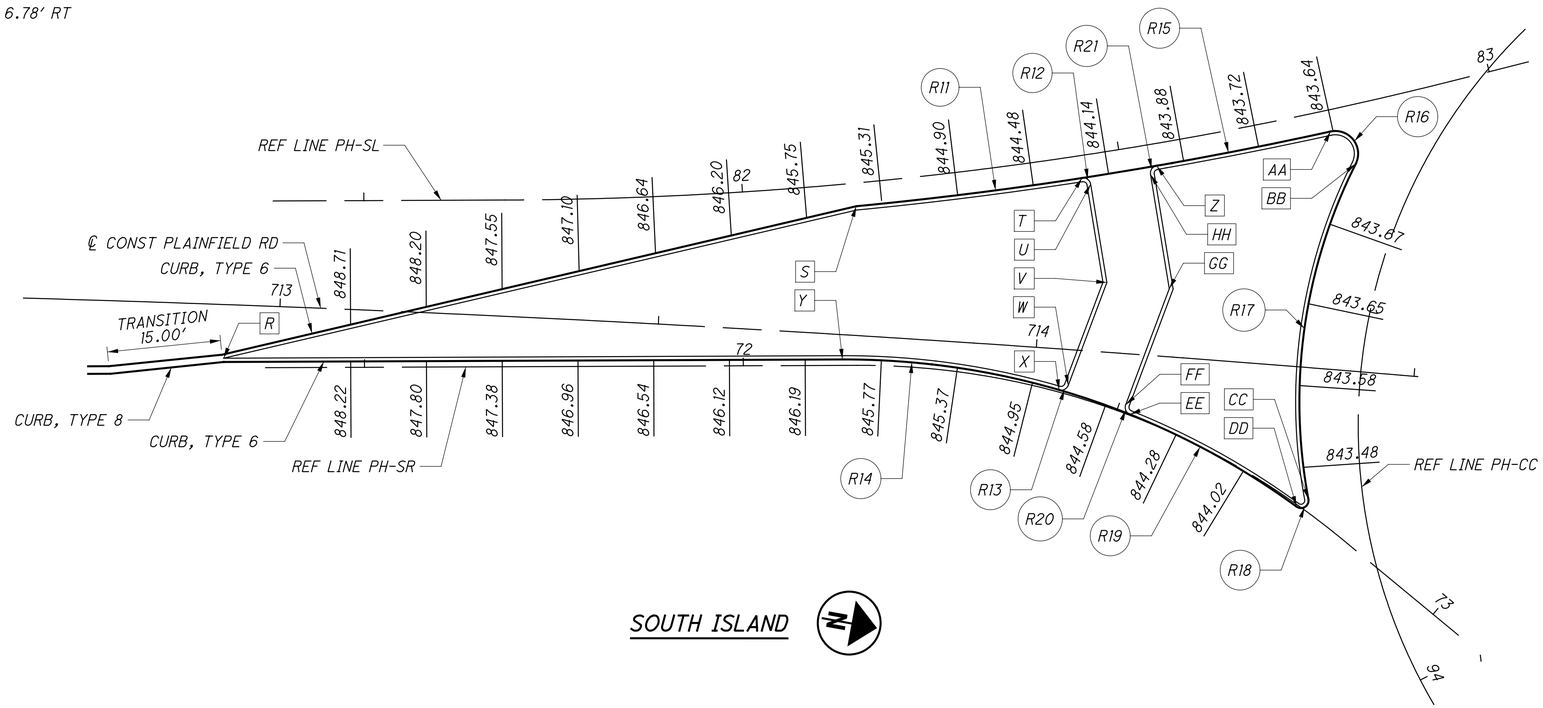
- A STA 20+00.00 (WL), 1.0′ RT ELEV = 841.36
- B STA 21+22.18 (WL), 2.5′ RT ELEV = 841.28
- C STA 21+23.16 (WL), 3.4′ RT ELEV = 841.31
- D STA 21+24.87 (WL), 15.1′ RT ELEV = 841.54
- E STA 12+40.57 (WR), 5.0′ LT ELEV = 841.79
- F STA 12+39.62 (WR), 4.0′ LT ELEV = 841.82
- G STA 12+22.89 (WR), 4.0′ LT ELEV = 841.89
- H STA 11+21.28 (WR), 4.0′ LT ELEV = 841.88
- I STA 21+32.31 (WL), 2.7′ RT ELEV = 841.01
- J STA 21+58.12 (WL), 3.0′ RT ELEV = 840.47
- K STA 92+22.48 (CC), 7.7′ RT ELEV = 840.71
- L STA 92+57.74 (CC), 9.5′ RT ELEV = 841.97
- M STA 12+68.79 (WR), 4.0′ LT ELEV = 842.13
- N STA 12+49.13 (WR), 4.0′ LT ELEV = 841.83
- O STA 12+48.18 (WR), 5.0′ LT ELEV = 841.79
- P STA 21+33.18 (WL), 16.6′ RT ELEV = 841.39
- Q STA 21+31.31 (WL), 3.8′ RT ELEV = 841.05



WEST ISLAND

CURVE LAYOUT DATA (FACE OF CURB)				
NO.	RADIUS (FT)	Δ	TANGENT (FT)	LENGTH (FT)
R11	525.00	3° 16′ 45″	15.03	30.05
R12	1.00	89° 27′ 19″	0.99	1.56
R13	1.00	85° 36′ 04″	0.93	1.49
R14	101.00	16° 26′ 07″	14.59	28.97
R15	525.00	2° 33′ 10″	11.70	23.39
R16	3.00	129° 03′ 51″	6.30	6.76
R17	70.00	37° 13′ 31″	23.57	45.48
R18	1.00	136° 42′ 11″	2.52	2.39
R19	101.00	14° 17′ 39″	12.66	25.20
R20	1.00	88° 46′ 38″	0.98	1.55
R21	1.00	89° 27′ 19″	0.99	1.56

- R STA 712+94.63 (PLAINFIELD), 6.78′ RT ELEV = 848.97
- S STA 82+16.61 (SL), 3.0′ RT ELEV = 845.46
- T STA 82+46.49 (SL), 3.0′ RT ELEV = 844.25
- U STA 82+47.48 (SL), 4.0′ RT ELEV = 844.28
- V STA 82+47.57 (SL), 17.1′ RT ELEV = 844.52
- W STA 72+44.57 (SR), 1.9′ LT ELEV = 844.78
- X STA 72+43.60 (SR), 1.0′ LT ELEV = 844.81
- Y STA 72+14.91 (SR), 1.0′ LT ELEV = 845.98
- Z STA 82+56.41 (SL), 3.0′ RT ELEV = 843.96
- AA STA 82+79.67 (SL), 3.0′ RT ELEV = 843.64
- BB STA 93+32.05 (CC), 6.5′ RT ELEV = 843.65
- CC STA 93+73.94 (CC), 5.3′ RT ELEV = 843.43
- DD STA 72+78.36 (SR), 1.0′ RT ELEV = 843.44
- EE STA 72+53.41 (SR), 1.0′ RT ELEV = 844.47
- FF STA 72+52.43 (SR), 2.0′ LT ELEV = 844.45
- GG STA 82+55.31 (SL), 19.3′ RT ELEV = 844.21
- HH STA 82+55.42 (SL), 4.0′ RT ELEV = 843.98



SOUTH ISLAND

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HORIZONTAL SCALE IN FEET
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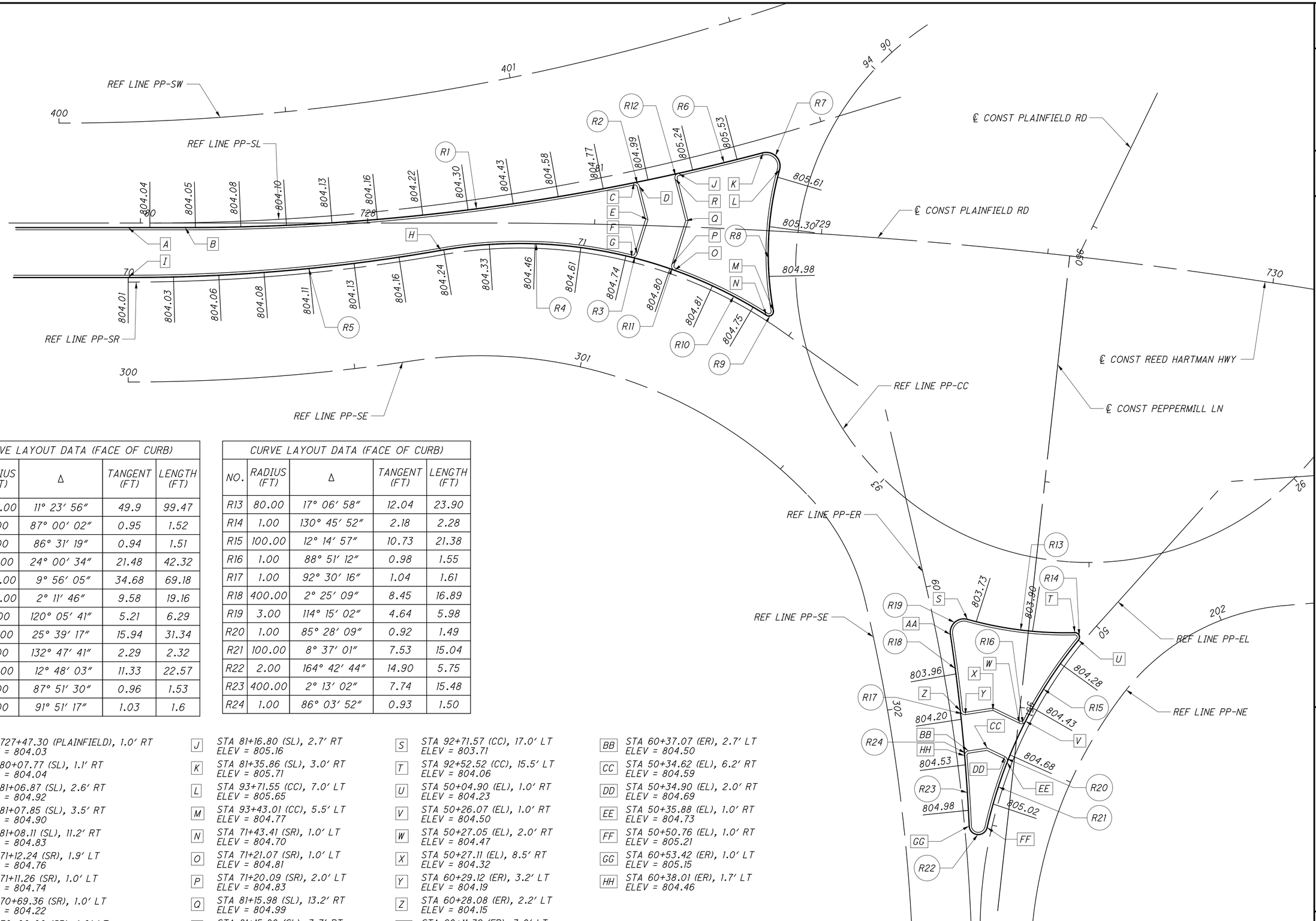
CALCULATED CML
CHECKED JS

SPLITTER ISLAND DETAILS
PLAINFIELD RD & HUNT RD
HAM-PLAINFIELD RD ROUNDABOUTS



CURVE LAYOUT DATA (FACE OF CURB)				
NO.	RADIUS (FT)	Δ	TANGENT (FT)	LENGTH (FT)
R1	500.00	11° 23′ 56″	49.9	99.47
R2	1.00	87° 00′ 02″	0.95	1.52
R3	1.00	86° 31′ 19″	0.94	1.51
R4	101.00	24° 00′ 34″	21.48	42.32
R5	399.00	9° 56′ 05″	34.68	69.18
R6	500.00	2° 11′ 46″	9.58	19.16
R7	3.00	120° 05′ 41″	5.21	6.29
R8	70.00	25° 39′ 17″	15.94	31.34
R9	1.00	132° 47′ 41″	2.29	2.32
R10	101.00	12° 48′ 03″	11.33	22.57
R11	1.00	87° 51′ 30″	0.96	1.53
R12	1.00	91° 51′ 17″	1.03	1.6

CURVE LAYOUT DATA (FACE OF CURB)				
NO.	RADIUS (FT)	Δ	TANGENT (FT)	LENGTH (FT)
R13	80.00	17° 06′ 58″	12.04	23.90
R14	1.00	130° 45′ 52″	2.18	2.28
R15	100.00	12° 14′ 57″	10.73	21.38
R16	1.00	88° 51′ 12″	0.98	1.55
R17	1.00	92° 30′ 16″	1.04	1.61
R18	400.00	2° 25′ 09″	8.45	16.89
R19	3.00	114° 15′ 02″	4.64	5.98
R20	1.00	85° 28′ 09″	0.92	1.49
R21	100.00	8° 37′ 01″	7.53	15.04
R22	2.00	164° 42′ 44″	14.90	5.75
R23	400.00	2° 13′ 02″	7.74	15.48
R24	1.00	86° 03′ 52″	0.93	1.50

- A — STA 727+47.30 (PLAINFIELD), 1.0′ RT, ELEV = 804.03
- B — STA 80+07.77 (SL), 1.1′ RT, ELEV = 804.04
- C — STA 81+06.87 (SL), 2.6′ RT, ELEV = 804.92
- D — STA 81+07.85 (SL), 3.5′ RT, ELEV = 804.90
- E — STA 81+08.11 (SL), 11.2′ RT, ELEV = 804.83
- F — STA 71+12.24 (SR), 1.9′ LT, ELEV = 804.76
- G — STA 71+11.26 (SR), 1.0′ LT, ELEV = 804.74
- H — STA 70+69.36 (SR), 1.0′ LT, ELEV = 804.22
- I — STA 70+00.00 (SR), 1.0′ LT, ELEV = 804.01
- J — STA 81+16.80 (SL), 2.7′ RT, ELEV = 805.16
- K — STA 81+35.86 (SL), 3.0′ RT, ELEV = 805.71
- L — STA 93+71.55 (CC), 7.0′ LT, ELEV = 805.65
- M — STA 93+43.01 (CC), 5.5′ LT, ELEV = 804.77
- N — STA 71+43.41 (SR), 1.0′ LT, ELEV = 804.70
- O — STA 71+21.07 (SR), 1.0′ LT, ELEV = 804.81
- P — STA 71+20.09 (SR), 2.0′ LT, ELEV = 804.83
- Q — STA 81+15.98 (SL), 13.2′ RT, ELEV = 804.99
- R — STA 81+15.80 (SL), 3.7′ RT, ELEV = 805.14
- S — STA 92+71.57 (CC), 17.0′ LT, ELEV = 803.71
- T — STA 92+52.52 (CC), 15.5′ LT, ELEV = 804.06
- U — STA 50+04.90 (EL), 1.0′ RT, ELEV = 804.23
- V — STA 50+26.07 (EL), 1.0′ RT, ELEV = 804.50
- W — STA 50+27.05 (EL), 2.0′ RT, ELEV = 804.47
- X — STA 50+27.11 (EL), 8.5′ RT, ELEV = 804.32
- Y — STA 60+29.12 (ER), 3.2′ LT, ELEV = 804.19
- Z — STA 60+28.08 (ER), 2.2′ LT, ELEV = 804.15
- AA — STA 60+11.32 (ER), 3.0′ LT, ELEV = 803.85
- BB — STA 60+37.07 (ER), 2.7′ LT, ELEV = 804.50
- CC — STA 50+34.62 (EL), 6.2′ RT, ELEV = 804.59
- DD — STA 50+34.90 (EL), 2.0′ RT, ELEV = 804.69
- EE — STA 50+35.88 (EL), 1.0′ RT, ELEV = 804.73
- FF — STA 50+50.76 (EL), 1.0′ RT, ELEV = 805.21
- GG — STA 60+53.42 (ER), 1.0′ LT, ELEV = 805.15
- HH — STA 60+38.01 (ER), 1.7′ LT, ELEV = 804.46

HORIZONTAL SCALE IN FEET
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CALCULATED CML
CHECKED JS

SPLITTER ISLAND DETAILS
HAM-PLAINFIELD RD & PEPPERMILL LN
ROUNDABOUTS

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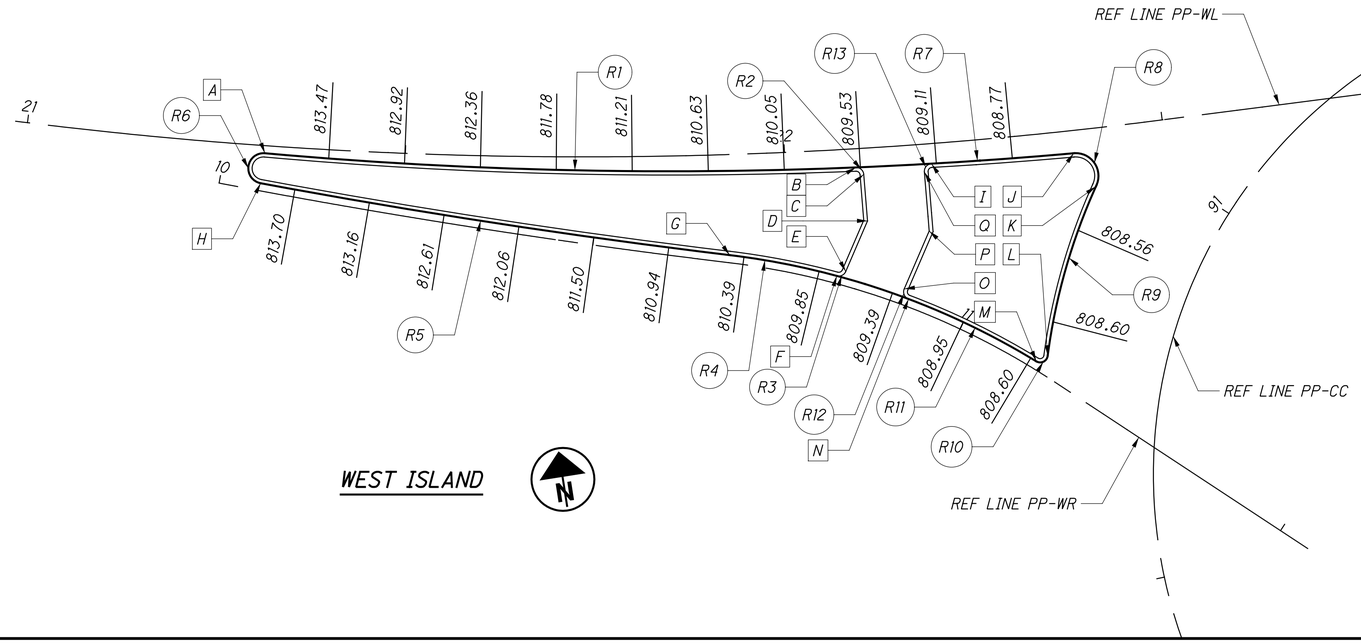
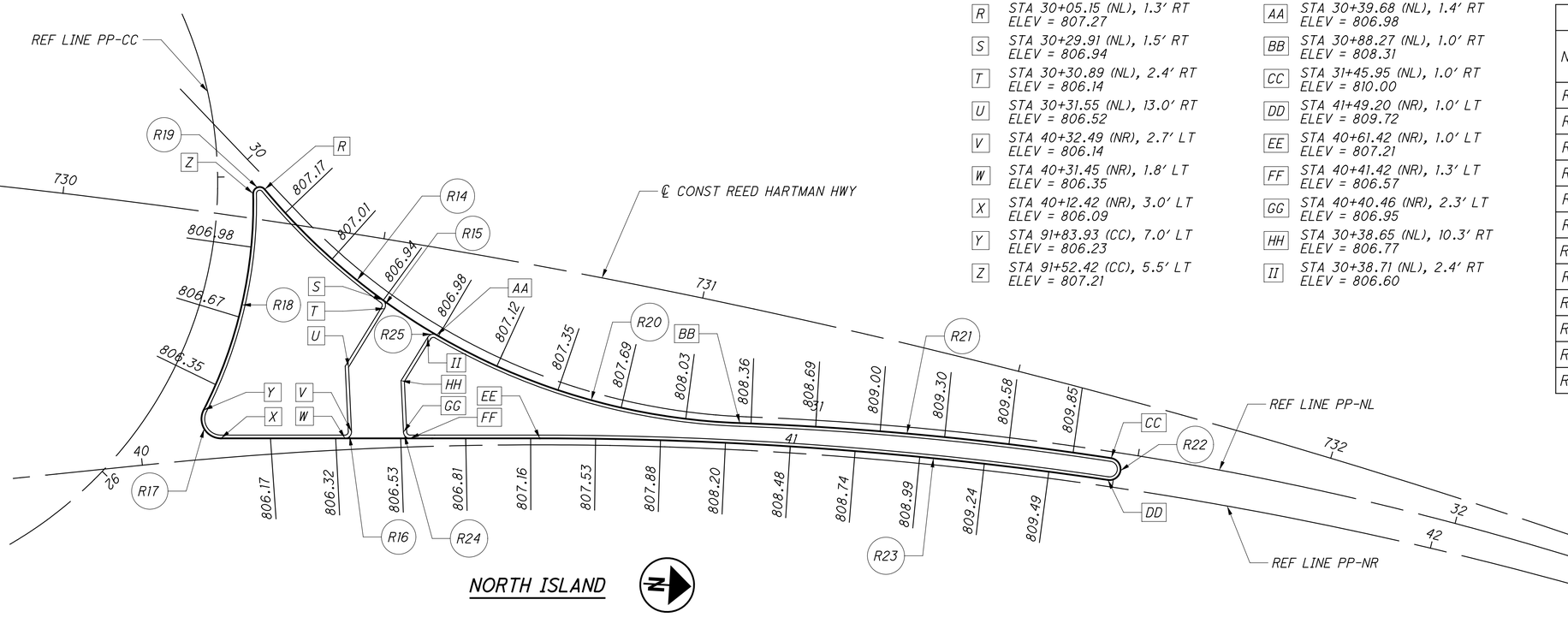
CURVE LAYOUT DATA (FACE OF CURB)				
NO.	RADIUS (FT)	Δ	TANGENT (FT)	LENGTH (FT)
R1	600.00	7° 27′ 31″	39.11	78.11
R2	1.00	87° 41′ 10″	0.96	1.53
R3	1.00	81° 44′ 08″	0.87	1.43
R4	101.00	8° 10′ 37″	7.22	14.41
R5	975.00	3° 40′ 52″	31.33	62.64
R6	2.00	174° 33′ 06″	42.03	6.09
R7	600.00	1° 47′ 53″	9.41	18.83
R8	3.00	123° 56′ 31″	5.64	6.49
R9	80.00	16° 50′ 05″	11.84	23.51
R10	1.00	113° 48′ 58″	1.53	1.99
R11	101.00	10° 39′ 30″	9.42	18.79
R12	1.00	92° 37′ 11″	1.05	1.62
R13	1.00	91° 21′ 37″	1.02	1.59

- A STA 21+31.51 (WL), 1.0′ RT ELEV = 813.93
- B STA 22+09.29 (WL), 2.5′ RT ELEV = 809.56
- C STA 22+10.26 (WL), 3.4′ RT ELEV = 809.58
- D STA 22+10.39 (WL), 9.6′ RT ELEV = 809.64
- E STA 10+83.33 (WR), 1.9′ LT ELEV = 809.72
- F STA 10+82.36 (WR), 1.0′ LT ELEV = 809.74
- G STA 10+68.09 (WR), 1.0′ LT ELEV = 810.49
- H STA 10+05.41 (WR), 1.0′ LT ELEV = 813.94
- I STA 22+19.22 (WL), 2.7′ RT ELEV = 809.13
- J STA 22+37.94 (WL), 3.0′ RT ELEV = 808.58
- K STA 90+94.95 (CC), 17.0′ LT ELEV = 808.31
- L STA 90+76.36 (CC), 15.5′ LT ELEV = 808.38
- M STA 11+10.81 (WR), 1.0′ LT ELEV = 808.57
- N STA 10+92.21 (WR), 1.0′ LT ELEV = 809.29
- O STA 10+91.23 (WR), 2.1′ LT ELEV = 808.62
- P STA 22+18.26 (WL), 11.5′ RT ELEV = 808.86
- Q STA 22+18.21 (WL), 3.7′ RT ELEV = 809.08



WEST ISLAND

- R STA 30+05.15 (NL), 1.3′ RT ELEV = 807.27
- S STA 30+29.91 (NL), 1.5′ RT ELEV = 806.94
- T STA 30+30.89 (NL), 2.4′ RT ELEV = 806.14
- U STA 30+31.55 (NL), 13.0′ RT ELEV = 806.52
- V STA 40+32.49 (NR), 2.7′ LT ELEV = 806.14
- W STA 40+31.45 (NR), 1.8′ LT ELEV = 806.35
- X STA 40+12.42 (NR), 3.0′ LT ELEV = 806.09
- Y STA 91+83.93 (CC), 7.0′ LT ELEV = 806.23
- Z STA 91+52.42 (CC), 5.5′ LT ELEV = 807.21
- AA STA 30+39.68 (NL), 1.4′ RT ELEV = 806.98
- BB STA 30+88.27 (NL), 1.0′ RT ELEV = 808.31
- CC STA 31+45.95 (NL), 1.0′ RT ELEV = 810.00
- DD STA 41+49.20 (NR), 1.0′ LT ELEV = 809.72
- EE STA 40+61.42 (NR), 1.0′ LT ELEV = 807.21
- FF STA 40+41.42 (NR), 1.3′ LT ELEV = 806.57
- GG STA 40+40.46 (NR), 2.3′ LT ELEV = 806.95
- HH STA 30+38.65 (NL), 10.3′ RT ELEV = 806.77
- II STA 30+38.71 (NL), 2.4′ RT ELEV = 806.60



NORTH ISLAND

CURVE LAYOUT DATA (FACE OF CURB)				
NO.	RADIUS (FT)	Δ	TANGENT (FT)	LENGTH (FT)
R14	100.00	14° 20′ 28″	12.58	25.03
R15	1.00	85° 37′ 36″	0.93	1.49
R16	1.00	92° 40′ 41″	1.05	1.62
R17	3.00	119° 14′ 46″	5.00	6.10
R18	70.00	28° 19′ 11″	17.66	34.60
R19	1.00	141° 32′ 56″	2.87	2.47
R20	100.00	28° 10′ 50″	25.10	49.18
R21	499.00	6° 36′ 40″	28.82	57.58
R22	1.70	179° 40′ 30″	5.33	1.70
R23	601.00	8° 22′ 57″	44.04	87.93
R24	1.00	87° 19′ 19″	0.95	1.52
R25	1.00	88° 41′ 46″	0.98	1.55

HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED CML
CHECKED JS

SPLITTER ISLAND DETAILS
PLAINFIELD RD & PEPPERMILL LN

HAM-PLAINFIELD RD ROUNDABOUTS

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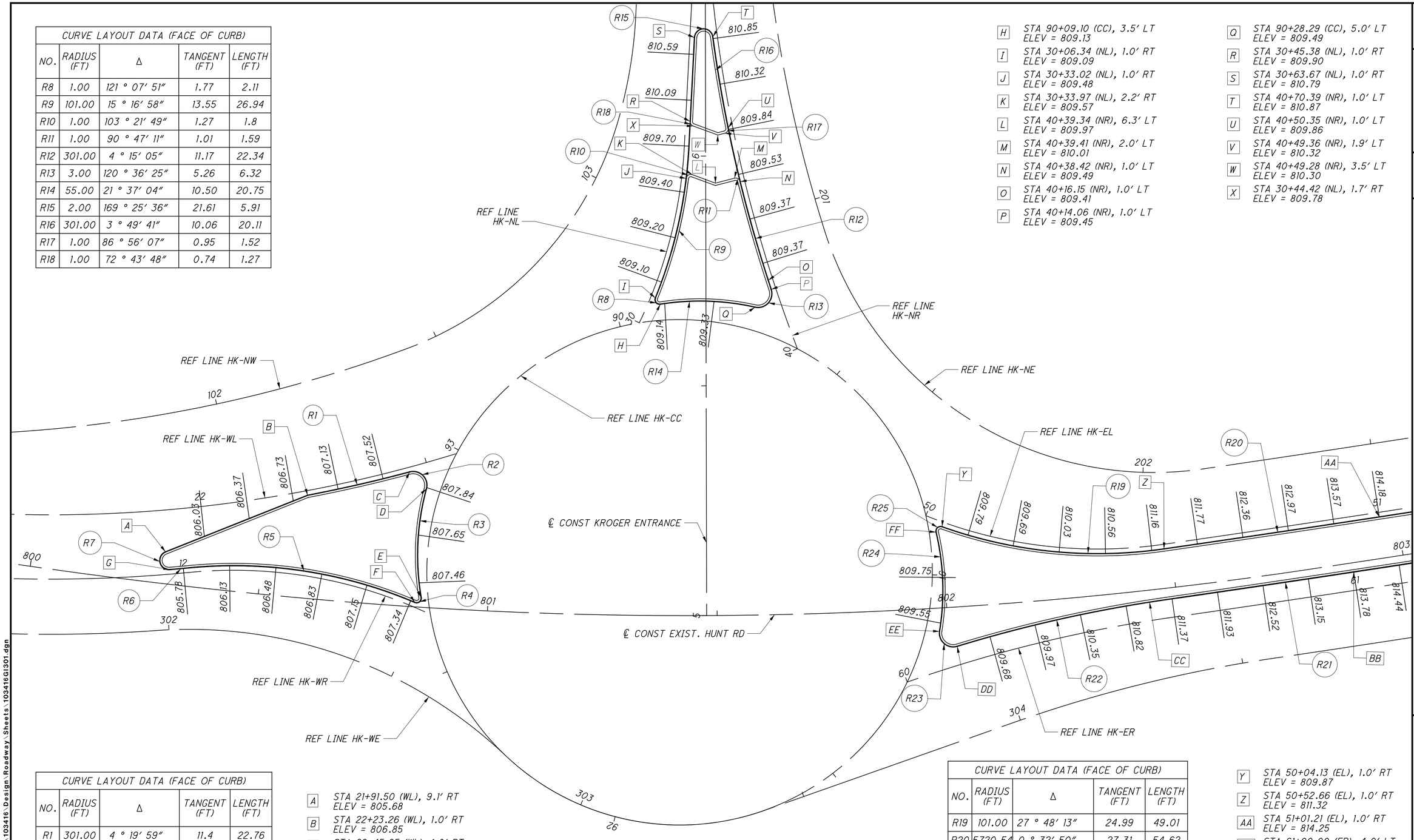
CURVE LAYOUT DATA (FACE OF CURB)				
NO.	RADIUS (FT)	Δ	TANGENT (FT)	LENGTH (FT)
R8	1.00	121 ° 07′ 51″	1.77	2.11
R9	101.00	15 ° 16′ 58″	13.55	26.94
R10	1.00	103 ° 21′ 49″	1.27	1.8
R11	1.00	90 ° 47′ 11″	1.01	1.59
R12	301.00	4 ° 15′ 05″	11.17	22.34
R13	3.00	120 ° 36′ 25″	5.26	6.32
R14	55.00	21 ° 37′ 04″	10.50	20.75
R15	2.00	169 ° 25′ 36″	21.61	5.91
R16	301.00	3 ° 49′ 41″	10.06	20.11
R17	1.00	86 ° 56′ 07″	0.95	1.52
R18	1.00	72 ° 43′ 48″	0.74	1.27

H STA 90+09.10 (CC), 3.5′ LT ELEV = 809.13
I STA 30+06.34 (NL), 1.0′ RT ELEV = 809.09
J STA 30+33.02 (NL), 1.0′ RT ELEV = 809.48
K STA 30+33.97 (NL), 2.2′ RT ELEV = 809.57
L STA 40+39.34 (NR), 6.3′ LT ELEV = 809.97
M STA 40+39.41 (NR), 2.0′ LT ELEV = 810.01
N STA 40+38.42 (NR), 1.0′ LT ELEV = 809.49
O STA 40+16.15 (NR), 1.0′ LT ELEV = 809.41
P STA 40+14.06 (NR), 1.0′ LT ELEV = 809.45
Q STA 90+28.29 (CC), 5.0′ LT ELEV = 809.49
R STA 30+45.38 (NL), 1.0′ RT ELEV = 809.90
S STA 30+63.67 (NL), 1.0′ RT ELEV = 810.79
T STA 40+70.39 (NR), 1.0′ LT ELEV = 810.87
U STA 40+50.35 (NR), 1.0′ LT ELEV = 809.86
V STA 40+49.36 (NR), 1.9′ LT ELEV = 810.32
W STA 40+49.28 (NR), 3.5′ LT ELEV = 810.30
X STA 30+44.42 (NL), 1.7′ RT ELEV = 809.78



CURVE LAYOUT DATA (FACE OF CURB)				
NO.	RADIUS (FT)	Δ	TANGENT (FT)	LENGTH (FT)
R1	301.00	4 ° 19′ 59″	11.4	22.76
R2	3.00	120 ° 16′ 33″	5.23	6.3
R3	55.00	24 ° 50′ 34″	12.11	23.85
R4	1.00	122 ° 35′ 05″	1.83	2.14
R5	101.00	28 ° 29′ 48″	25.65	50.23
R6	313.00	0 ° 46′ 13″	2.1	4.21
R7	2.00	163 ° 01′ 48″	13.41	5.69

A STA 21+91.50 (WL), 9.1′ RT ELEV = 805.68
B STA 22+23.26 (WL), 1.0′ RT ELEV = 806.85
C STA 22+45.95 (WL), 1.0′ RT ELEV = 807.73
D STA 92+89.74 (CC), 3.0′ LT ELEV = 807.84
E STA 92+66.89 (CC), 1.5′ LT ELEV = 807.41
F STA 12+50.97 (WR), 1.0′ LT ELEV = 807.35
G STA 11+97.02 (WR), 1.0′ LT ELEV = 805.66

CURVE LAYOUT DATA (FACE OF CURB)				
NO.	RADIUS (FT)	Δ	TANGENT (FT)	LENGTH (FT)
R19	101.00	27 ° 48′ 13″	24.99	49.01
R20	5720.54	0 ° 32′ 50″	27.31	54.62
R21	5731.54	0 ° 32′ 28″	27.07	54.14
R22	304.00	8 ° 47′ 27″	23.34	46.60
R23	3.00	116 ° 13′ 36″	4.82	6.09
R24	55.00	22 ° 33′ 08″	10.97	23.99
R25	1.00	122 ° 54′ 31″	1.84	2.15

Y STA 50+04.13 (EL), 1.0′ RT ELEV = 809.87
Z STA 50+52.66 (EL), 1.0′ RT ELEV = 811.32
AA STA 51+01.21 (EL), 1.0′ RT ELEV = 814.25
BB STA 61+00.00 (ER), 4.0′ LT ELEV = 813.78
CC STA 60+58.72 (ER), 4.0′ LT ELEV = 811.30
DD STA 60+12.69 (ER), 4.0′ LT ELEV = 809.50
EE STA 91+11.72 (CC), 3.0′ LT ELEV = 809.52
FF STA 90+90.88 (CC), 1.5′ LT ELEV = 809.87

HORIZONTAL SCALE IN FEET
0 5 10 20
CALCULATED CML
CHECKED JS

SPLITTER ISLAND DETAILS
HUNT RD & KROGER ENTRANCE
HAM-PLAINFIELD RD ROUNDABOUTS

236
335

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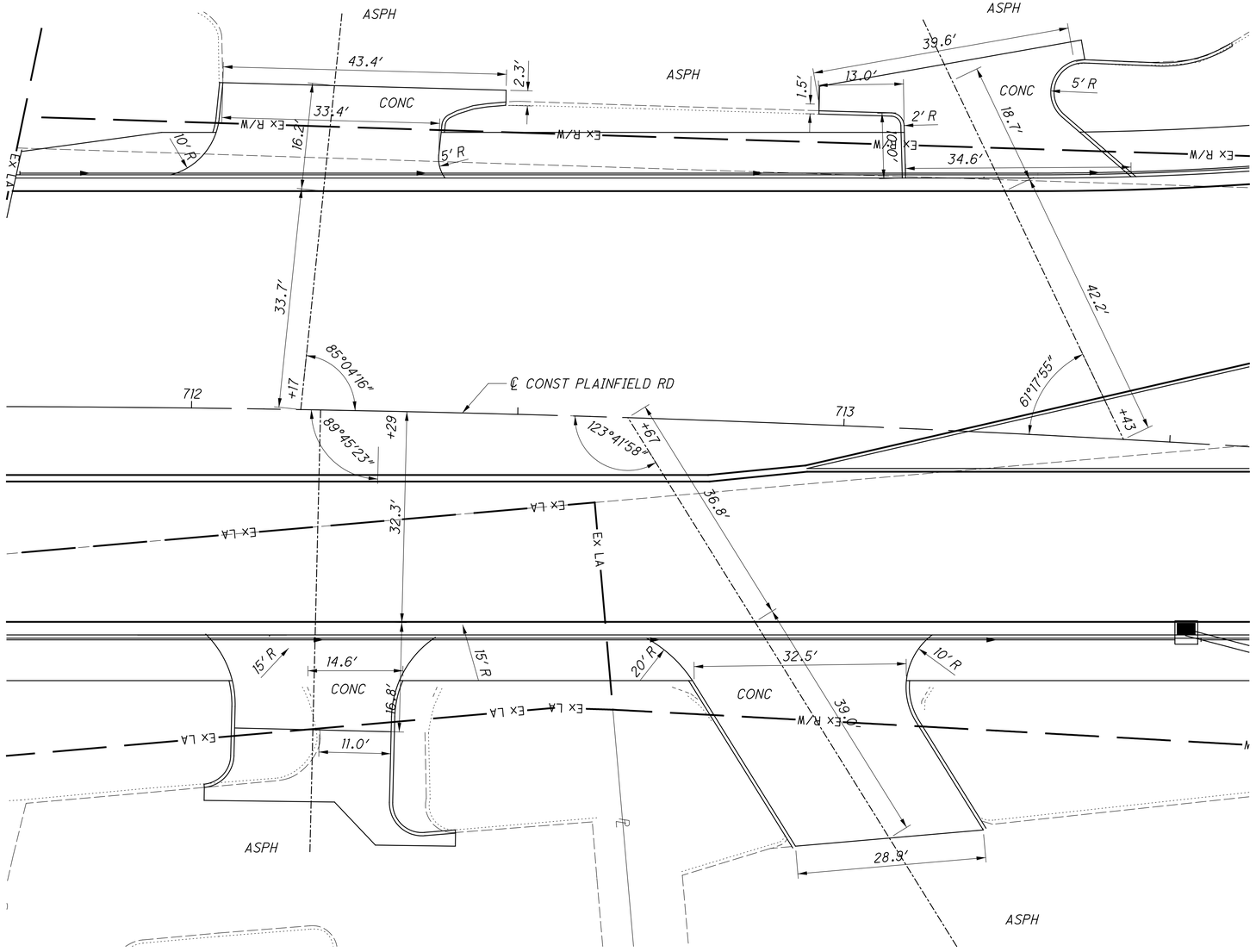
COMMERCIAL DRIVE
PLAINFIELD RD
STA. 712+17 LT - CONCRETE



COMMERCIAL DRIVE
PLAINFIELD RD
STA. 712+29 RT - CONCRETE

COMMERCIAL DRIVE
PLAINFIELD RD
STA. 712+67 RT - CONCRETE

RESIDENTIAL DRIVE BUILD-UP

EXISTING ASPHALT DRIVE

ITEM 452 - 6" NON-REINFORCED CONCRETE PAVEMENT (APRON)
ITEM 441 - 1.25" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22
ITEM 407 - NON-TRACKING TACK COAT (0.04 GAL/SY)
ITEM 301 - 3.5" ASPHALT CONCRETE BASE, PG64-22

EXISTING CONCRETE DRIVES

ITEM 452 - 7" NON-REINFORCED CONCRETE PAVEMENT

COMMERCIAL DRIVE BUILD-UP

EXISTING ASPHALT DRIVE

ITEM 441 - 1.25" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22
ITEM 407 - NON-TRACKING TACK COAT (0.04 GAL/SY)
ITEM 301 - 5" ASPHALT CONCRETE BASE

EXISTING CONCRETE DRIVES

ITEM 452 - 9" NON-REINFORCED CONCRETE PAVEMENT

N

HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED CML
CHECKED JS

DRIVE DETAILS
PLAINFIELD RD

HAM-PLAINFIELD RD ROUNDABOUTS

237
335

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(1) ℄ DRIVE STA. 503+30, CURVE 1
P.I. Sta. 0+67.10
Δ = 53° 03′ 38″ (RT)
Dc = 68° 24′ 46″
R = 83.75′
T = 41.81′
L = 77.56′
E = 9.86′
C = 74.82′
C.B. = S 45° 37′ 09″ E

(2) ℄ DRIVE STA. 504+77, CURVE 1
P.I. Sta. 0+76.60
Δ = 63° 01′ 42″ (LT)
Dc = 68° 24′ 46″
R = 83.75′
T = 51.35′
L = 92.13′
E = 14.49′
C = 87.55′
C.B. = S 11° 00′ 13″ W

COMMERCIAL DRIVE
PROP HUNT RD
STA. 503+30 RT - ASHPALT

COMMERCIAL DRIVE
PROP HUNT RD
STA. 504+77 RT - ASHPALT

℄ CONST PROP HUNT RD
℄ CONST PROP HUNT RD
℄ CONST EXIST HUNT RD
℄ DRIVE 503+30, STA. 1+05.50
℄ CONST EXIST HUNT RD, STA. 811+37.55
℄ DRIVE 504+77, STA. 1+22.28
℄ CONST EXIST HUNT RD, STA. 811+64.11
502
503
504
+30
+77
S 72° 08′ 58″ E
S 42° 31′ 04″ W
129°17′09″
10°04′32″
PC Sta. 0+25.29
PC Sta. 0+25.25
PT Sta. 1+02.85
PT Sta. 1+17.38
POT Sta. 1+72.08
POT Sta. 1+89.02
S 20° 06′ 14″ E
S 10° 05′ 19″ E
810
811
812
Ex R/W
70′ R
97′ R
26.50′
3′ R
1.5′
21′ R
55.01′
15.0′ R
24.0′
20.3′
16.0′
35.6′
243.4′
22.2′
23.5′
23.6′
2.0′
2.5′
10.0′ R
12″
11″
24.8′
29.0′
29.1′
30.5′
4′
1
2

COMMERCIAL ACCESS DRIVE
HUNT RD - ASPHALT

EXISTING PAVEMENT TO REMAIN,
PAVEMENT PLANING AND RESURFACING

FOR DRIVE BUILD-UP, SEE SHEET 237

HORIZONTAL SCALE IN FEET
0 5 10 20
CALCULATED CML
CHECKED JS

DRIVE DETAILS
HUNT RD

HAM-PLAINFIELD RD ROUNDABOUTS

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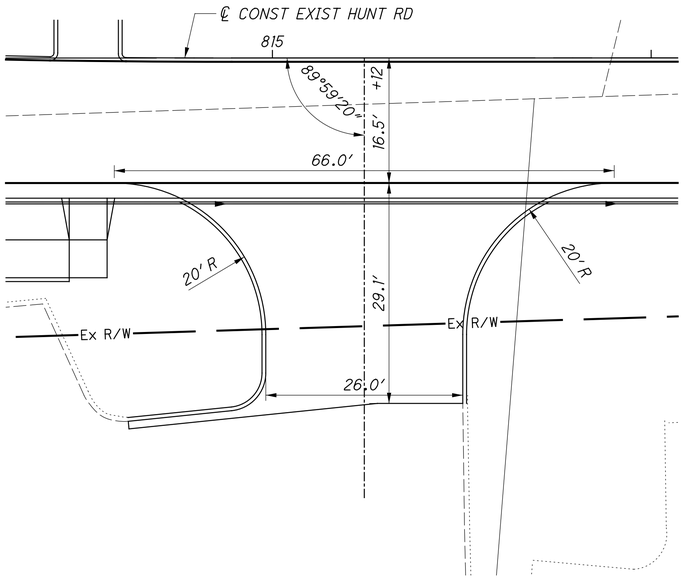
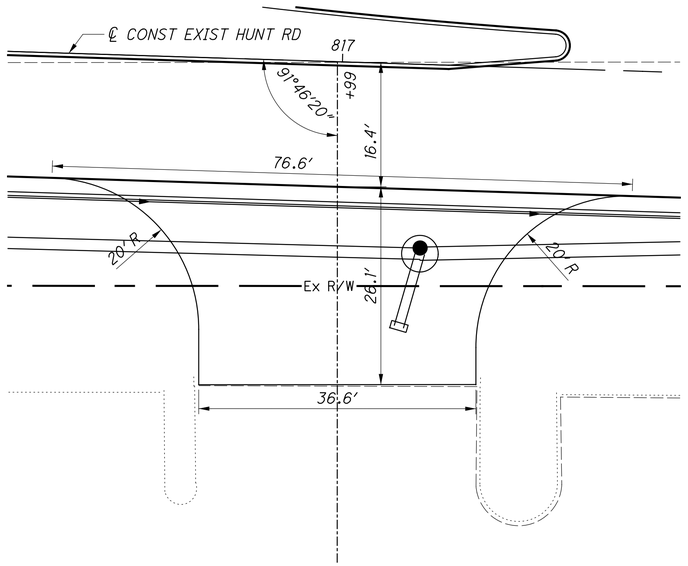


COMMERCIAL DRIVE
HUNT RD
STA. 815+12 RT - CONCRETE



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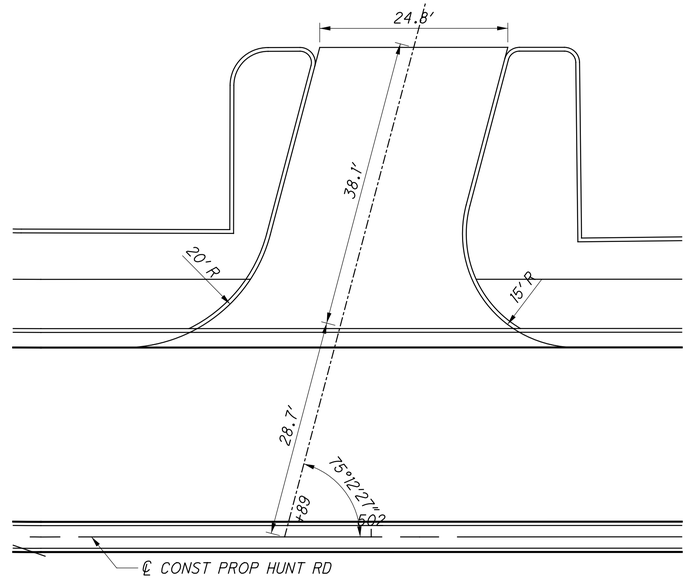
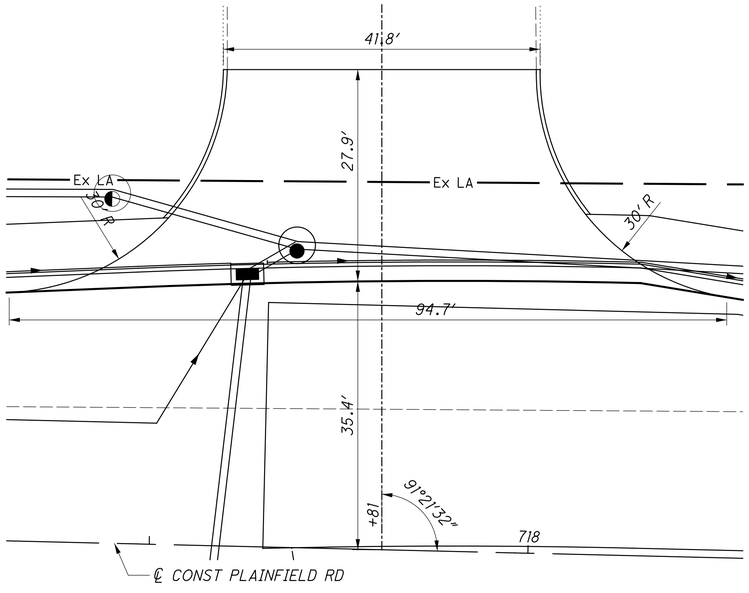
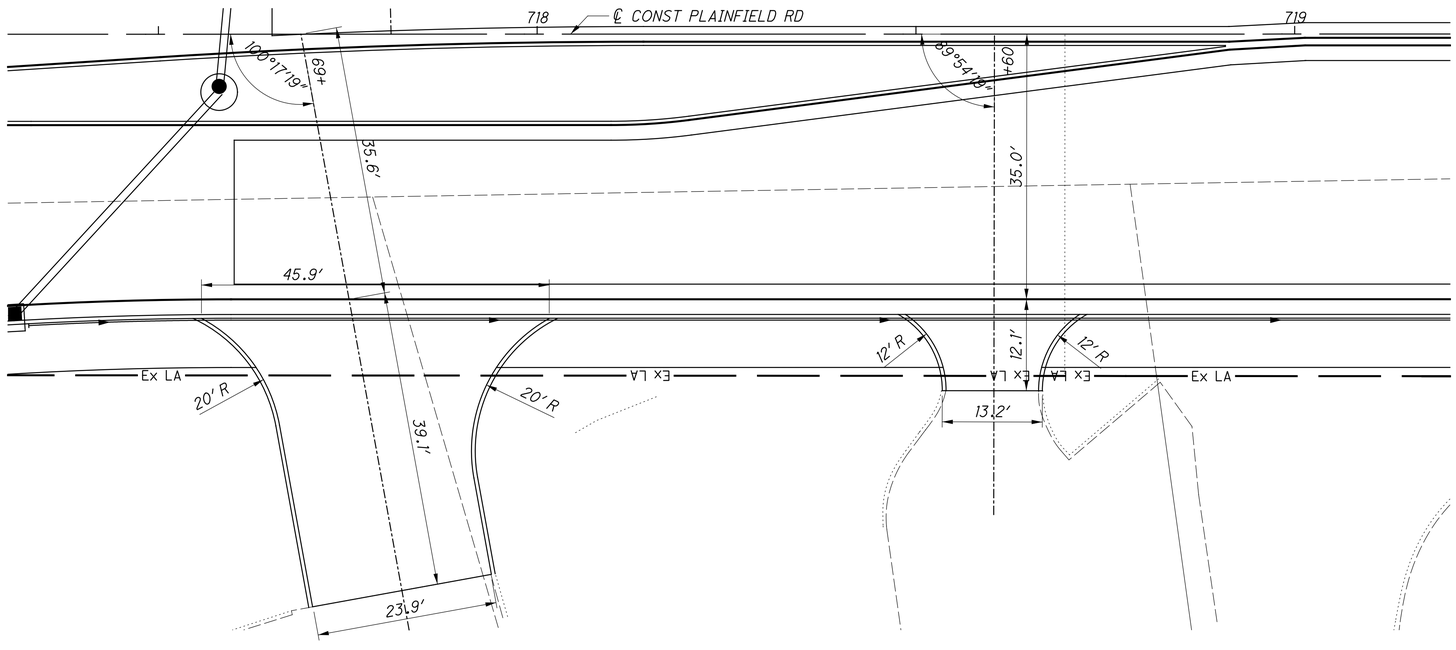
HUNT RD
STA. 816+99 RT - ASPHALT



COMMERCIAL DRIVE
HUNT RD
STA. 501+88.57 - ASPHALT



COMMERCIAL DRIVE
PLAINFIELD RD
STA. 717+81 LT - ASPHALT



COMMERCIAL DRIVE
PLAINFIELD RD
STA. 717+69 RT - ASPHALT

RESIDENTIAL DRIVE
PLAINFIELD RD
STA. 718+60 RT - ASPHALT

FOR DRIVE BUILD-UP, SEE SHEET 237

HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED CML
CHECKED JS

DRIVE DETAILS
PLAINFIELD RD & HUNT RD

HAM-PLAINFIELD RD ROUNDABOUTS

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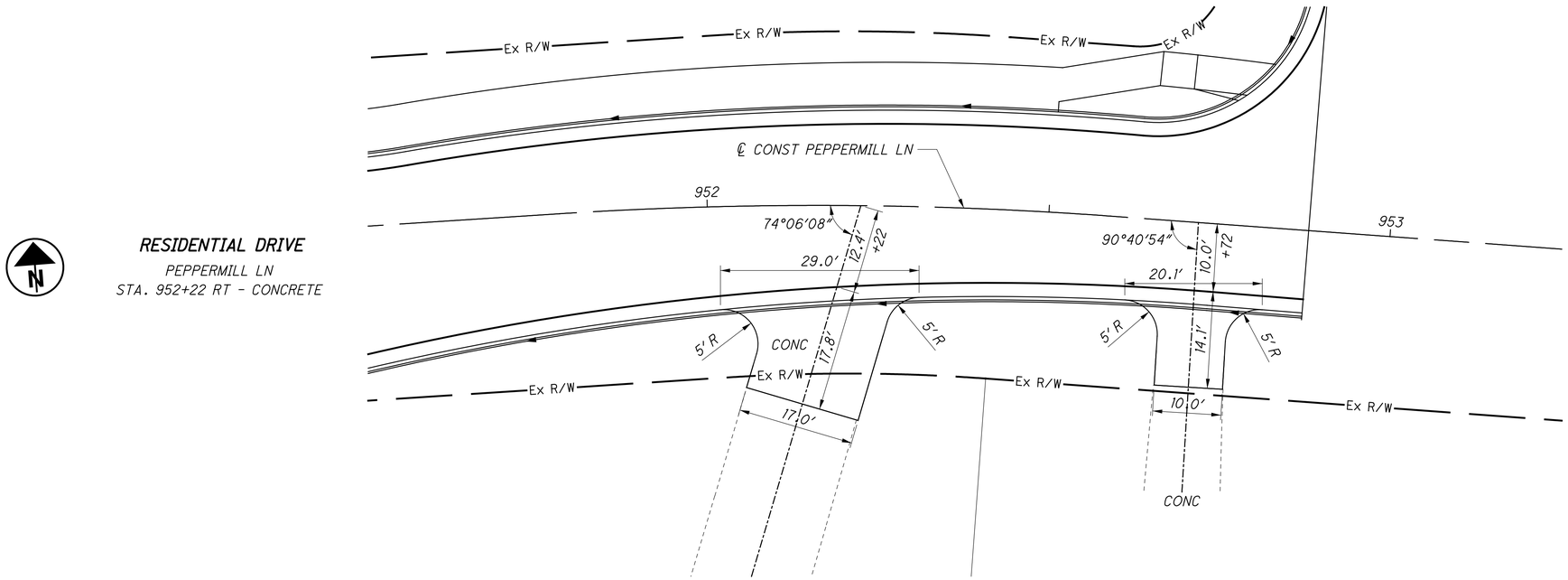
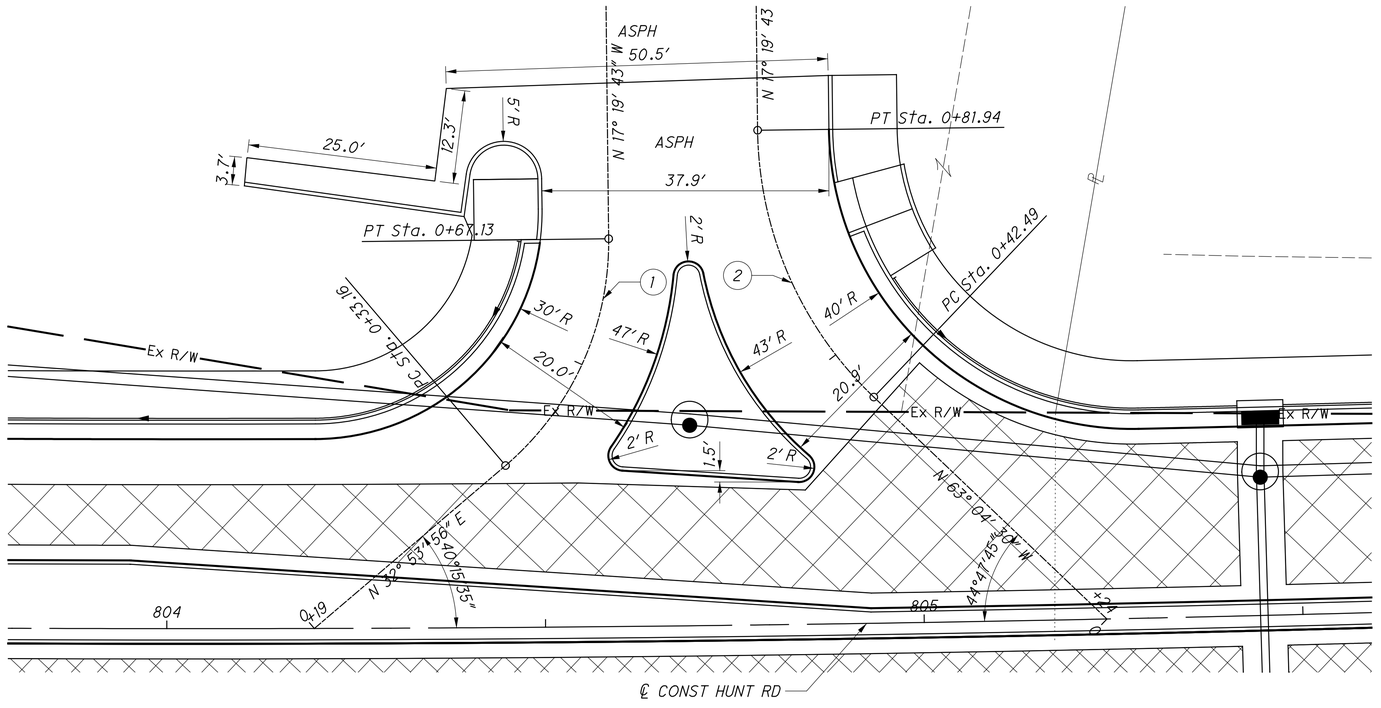


RESIDENTIAL DRIVE
PEPPERMILL LN
STA. 952+22 RT - CONCRETE

RESIDENTIAL DRIVE
PEPPERMILL LN
STA. 952+72 RT - CONCRETE



COMMERCIAL DRIVE
HUNT RD
KROGER ENTRANCE - ASPHALT

EXISTING PAVEMENT TO REMAIN,
PAVEMENT PLANING AND RESURFACING

FOR DRIVE BUILD-UP, SEE SHEET 237

(1) ℄ DRIVE STA. 804+19, CURVE 1
P.I. Sta. 0+51.32
Δ = 50° 13' 39" (LT)
Dc = 147° 51' 36"
R = 38.75'
T = 18.16'
L = 33.97'
E = 4.05'
C = 32.89'
C.B. = N 7° 47' 06" E

(2) ℄ DRIVE STA. 805+24, CURVE 1
P.I. Sta. 0+63.33
Δ = 45° 44' 47" (RT)
Dc = 115° 56' 37"
R = 49.42'
T = 20.85'
L = 39.46'
E = 4.22'
C = 38.42'
C.B. = N 40° 12' 07" W

HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED CML
CHECKED JS

DRIVE DETAILS
HUNT RD & PEPPERMILL LANE

HAM-PLAINFIELD RD
ROUNDABOUTS

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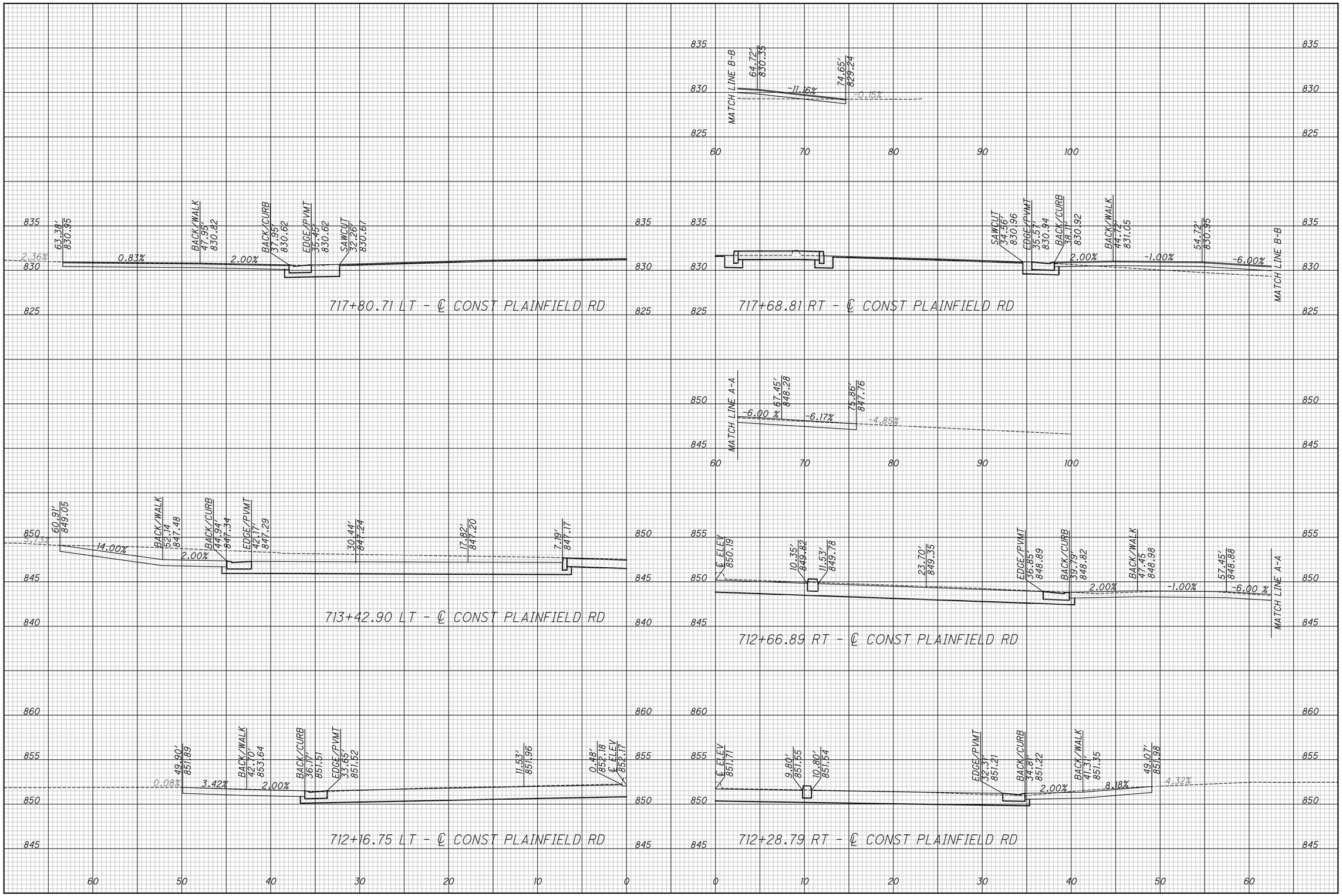

CALCULATED LZS
CHECKED JS

PROFILES - PLAINFIELD RD.

DRIVE

HAM-PLAINFIELD RD
ROUNDABOUTS

241
335

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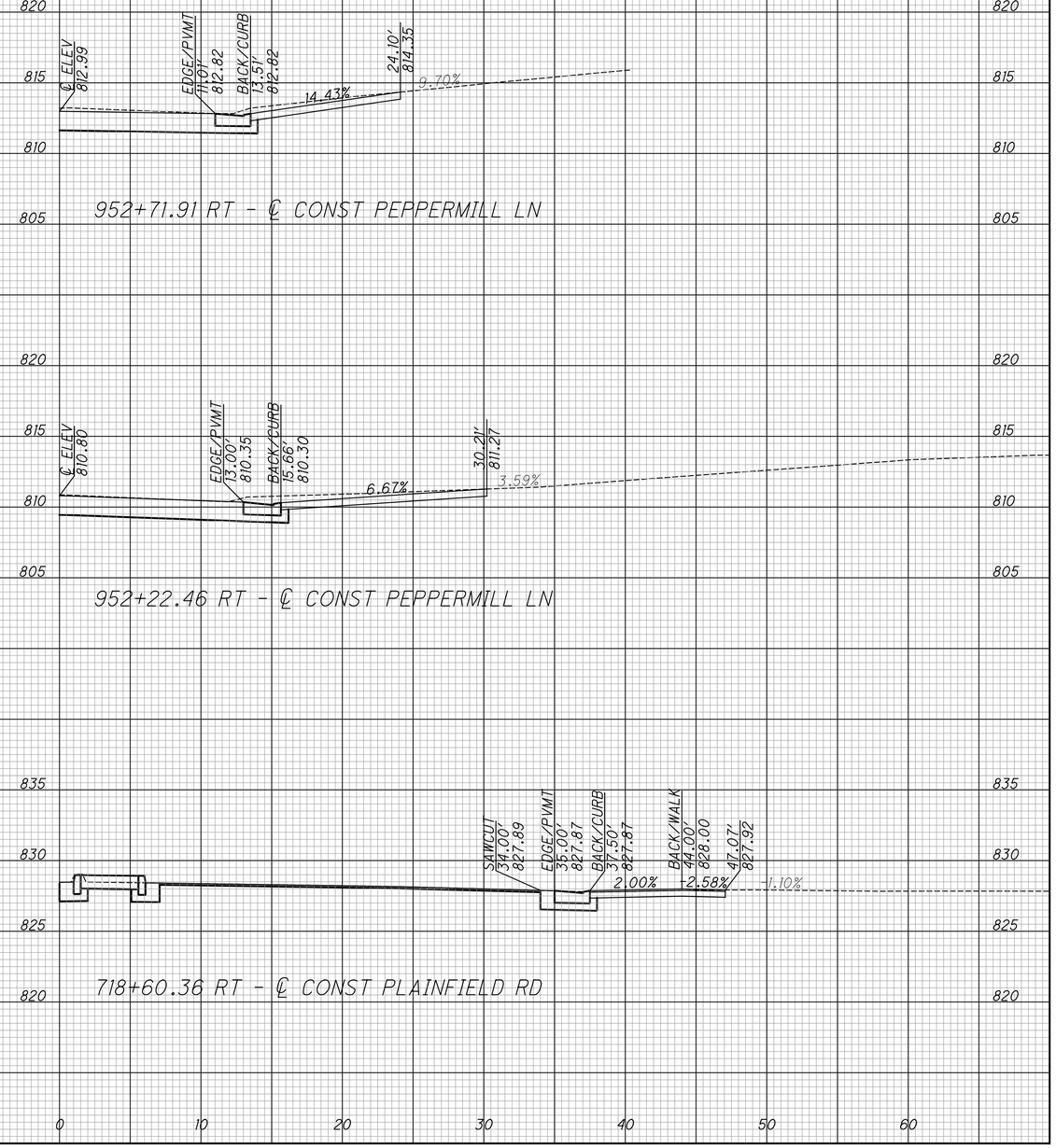

CALCULATED LZS
CHECKED JS

HAM-PLAINFIELD RD ROUNDABOUTS

DRIVE PROFILES - PLAINFIELD RD. & PEPPERMILL LN

242
335

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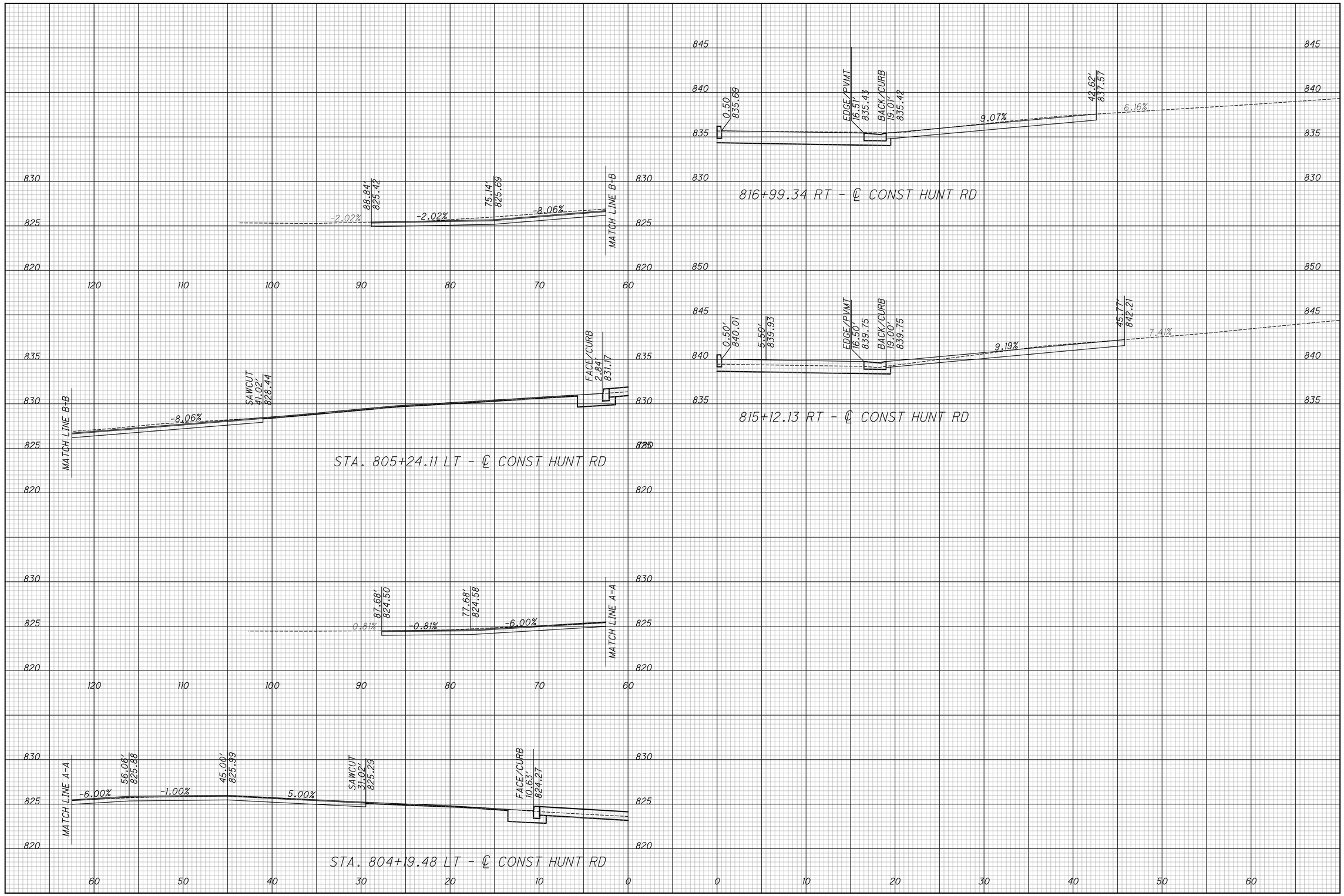

CALCULATED LZS
CHECKED JS

DRIVE PROFILES - HUNT RD

HAM-PLAINFIELD RD ROUNDABOUTS

243
335

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CALCULATED LZS
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HAM-PLAINFIELD RD ROUNDABOUTS

DRIVE

PROFILES - HUNT RD

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CALCULATED LZS CHECKED JS

STORM SEWER PROFILES

HAM-PLAINFIELD RD ROUNDABOUTS

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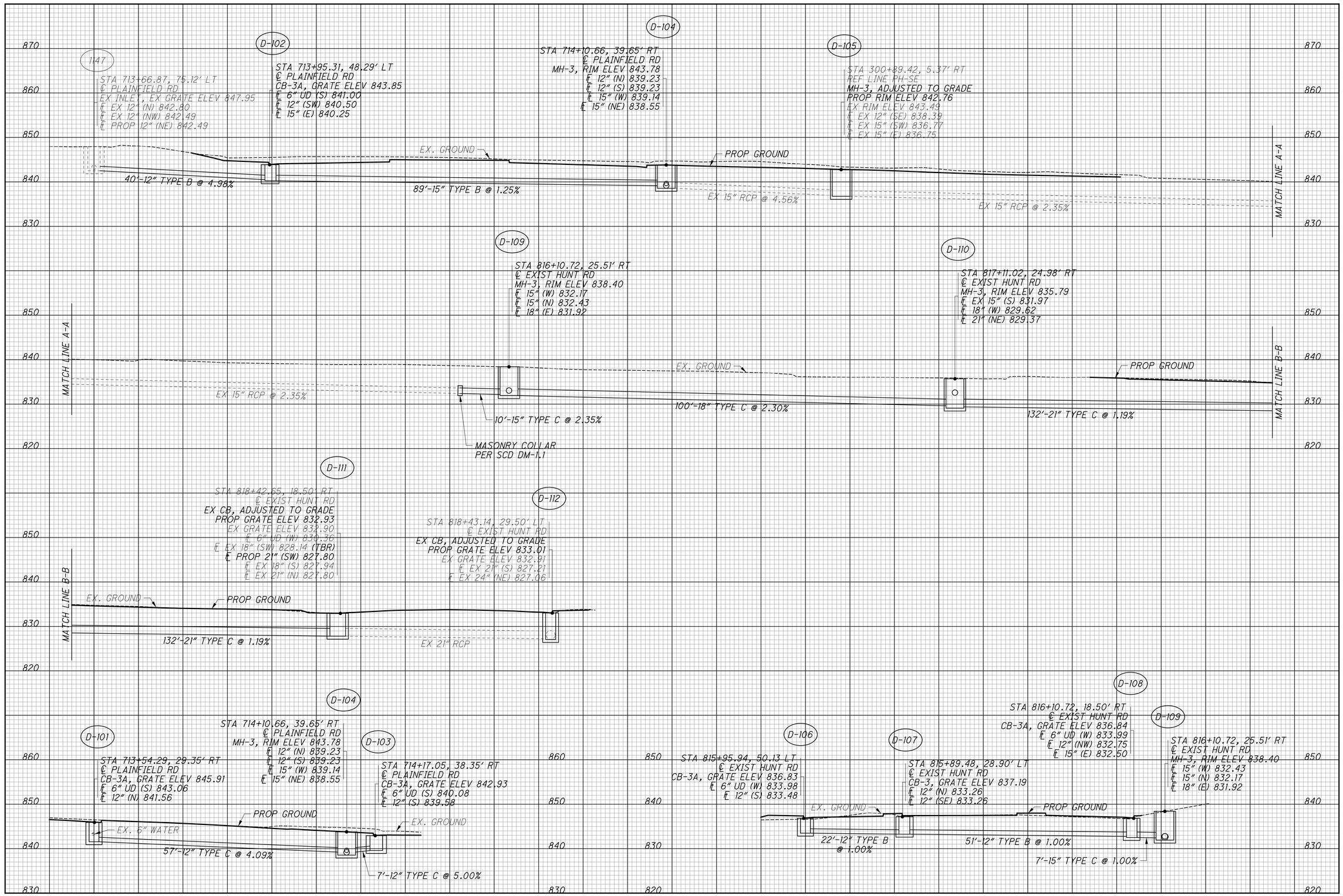

CALCULATED LZS
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STORM SEWER PROFILES

HAM-PLAINFIELD RD ROUNDABOUTS

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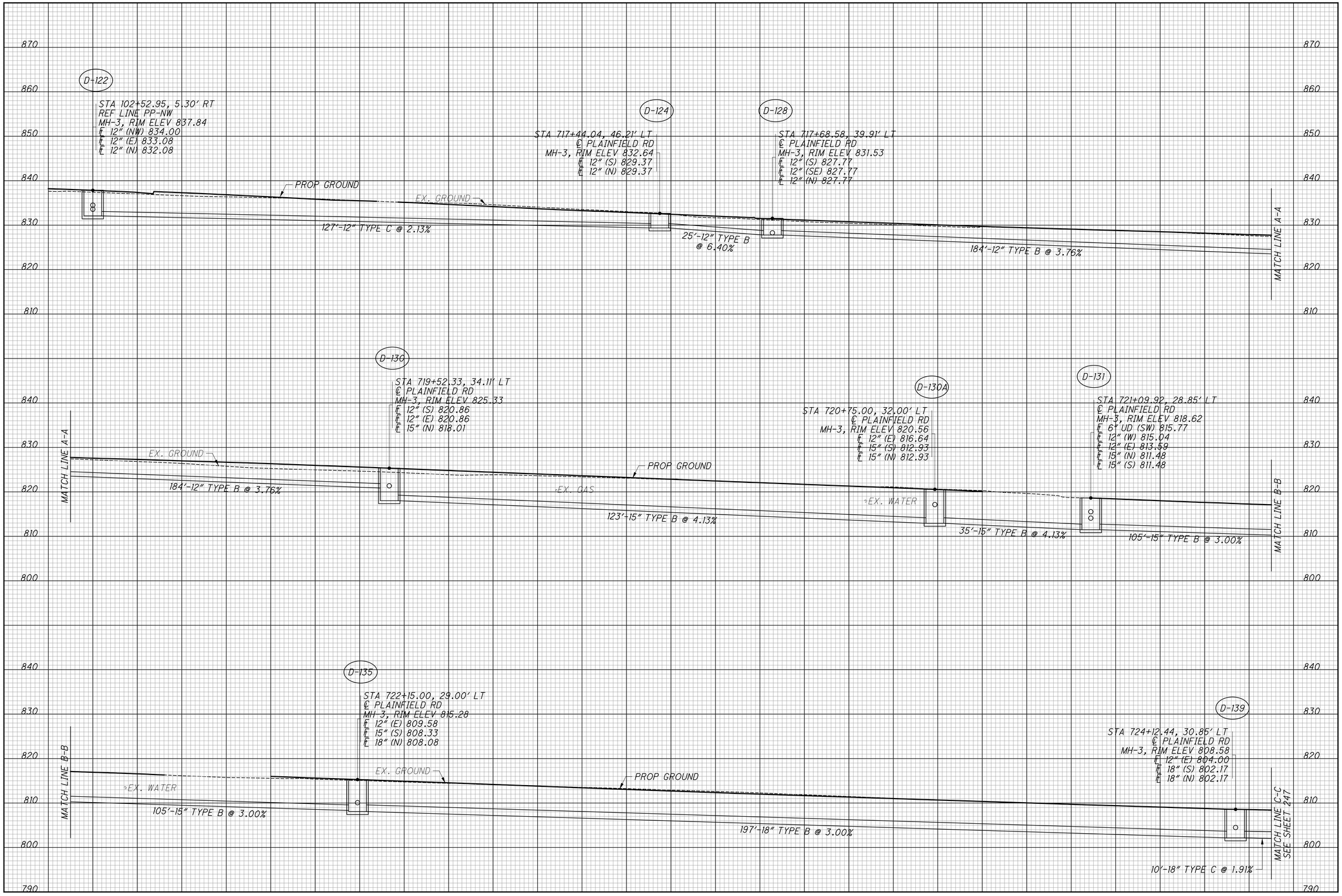

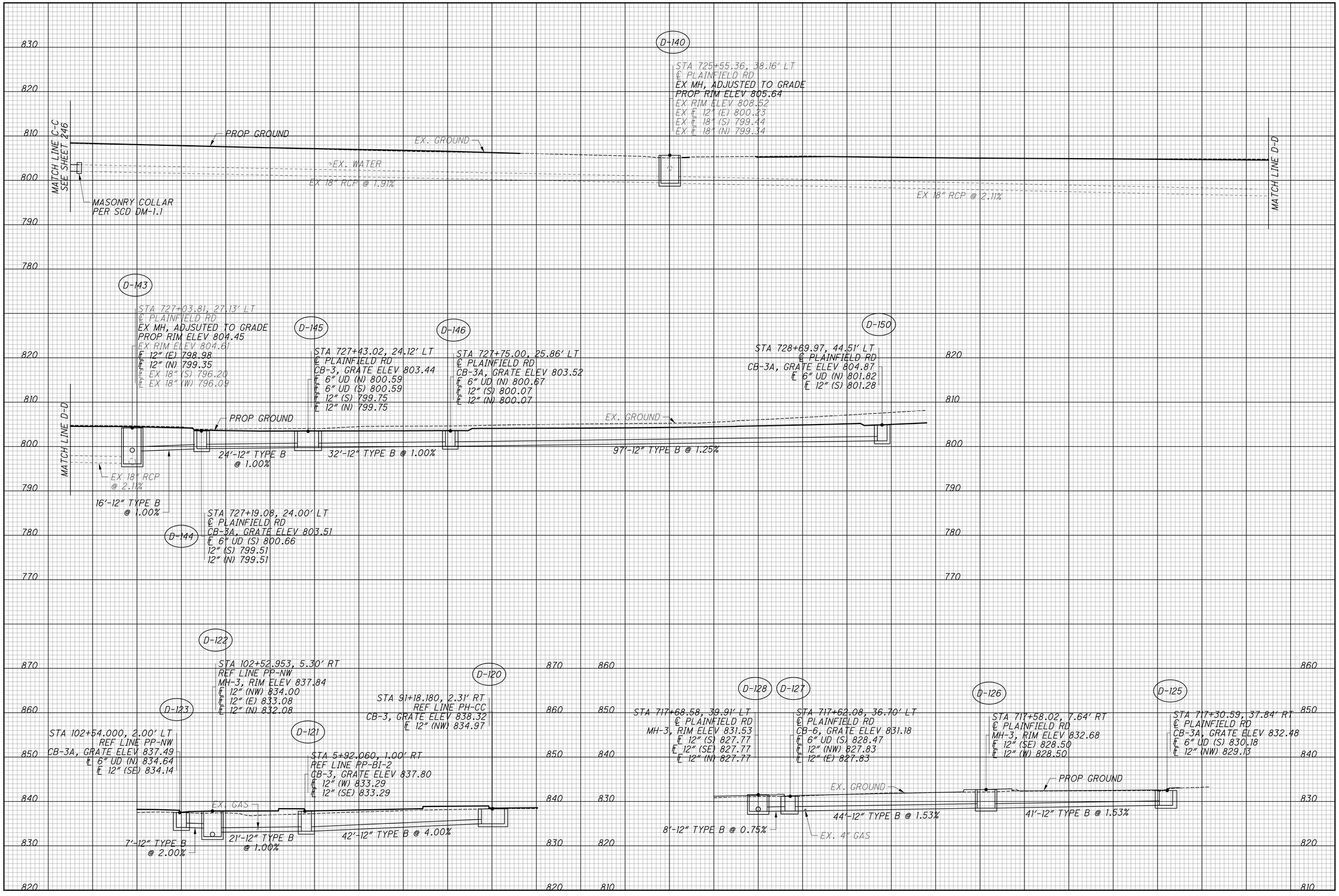

CALCULATED LZS
CHECKED JS

STORM SEWER PROFILES

HAM-PLAINFIELD RD
ROUNDABOUTS

247
335

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D-130

D-129

STA 719+52.33, 34.11' LT
℄ PLAINFIELD RD
MH-3, RIM ELEV 825.33
E 12" (S) 820.86
E 12" (E) 820.86
E 15" (N) 818.01

STA 719+52.29, 24.00' LT
℄ PLAINFIELD RD
CB-3A, GRATE ELEV 824.60
E 6" UD (S) 821.75
E 12" (W) 820.97

EX. GROUND
EX. 4" GAS
EX. ELECTRIC
PROP GROUND
11'-12" TYPE B @ 1.00%

D-130A

D-132

STA 720+75.00, 32.00' LT
MH-3, RIM ELEV 820.56
E 12" (E) 816.64
E 15" (N) 812.93
E 15" (S) 812.93

STA 720+75.00, 24.00' LT
CB-3, GRATE ELEV 819.90
E 6" UD (S) 817.05
E 12" (W) 816.80

EX. GROUND
PROP GROUND
EX. GAS
8'-12" TYPE B @ 2.00%

D-131

D-131A

STA 721+09.92, 28.85' LT
℄ PLAINFIELD RD
MH-3, RIM ELEV 818.62
E 6" UD (SW) 815.77
E 12" (W) 815.04
E 12" (E) 813.59
E 15" (N) 811.48
E 15" (S) 811.48

STA 721+10.59, 43.05' LT
℄ PLAINFIELD RD
EX-CB, ADJUSTED TO GRADE
PROP GRATE ELEV 817.96
EX GRATE ELEV 817.22
E EX 12" (E) 815.32

D-133

STA 720+99.90, 37.00' RT
℄ PLAINFIELD RD
CB-3, GRATE ELEV 818.84
E 6" UD (S) 815.99
E 12" (W) 815.95

PROP GROUND
EX. GROUND
EX. SIGNALIZATION
EX. 12" RCP @ 3.52%
EX. 4" GAS
(TBR) EX 12" RCP @ 14.21%
14'-12" TYPE B @ 2.00%
MASONRY COLLAR PER SCD DM-1.1
MASONRY COLLAR PER SCD DM-1.1
10'-12" TYPE B @ 3.52%
10'-12" TYPE B @ 3.52%

D-135

STA 722+15.00, 29.00' LT
MH-3, RIM ELEV 815.28
℄ PLAINFIELD RD
E 12" (E) 809.58
E 15" (S) 808.33
E 18" (N) 808.08

D-134

STA 750+61.00, 19.00' LT
℄ CONST ST ANDREWS PL
CB-3, GRATE ELEV 818.49
E 12" (NW) 811.71

D-134A

STA 722+15.00, 36.99' RT
15" (S) 808.33
CB-3A, GRATE ELEV 814.56
E 6" UD (S) 811.71
E 12" (W) 810.24
E 12" (SE) 810.24

PROP GROUND
66'-12" TYPE B @ 1.00%
EX. GROUND
EX. WATER
49'-12" TYPE C @ 3.00%
EX. WATER

D-138

D-139

D-137

D-136

STA 724+12.38, 24.00' LT
℄ PLAINFIELD RD
CB-3A, GRATE ELEV 807.91
E 6" UD (S) 805.06
E 12" (W) 804.07
E 12" (E) 804.07

STA 724+12.44, 30.85' LT
℄ PLAINFIELD RD
MH-3, RIM ELEV 808.58
E 12" (E) 804.00
E 18" (S) 802.17
E 18" (N) 802.17

STA 724+12.11, 6.50' RT
℄ PLAINFIELD RD
MH-3, RIM ELEV 809.19
E 12" (W) 804.37
E 12" (E) 804.37

STA 724+12.11, 37.00' RT
℄ PLAINFIELD RD
CB-3A, GRATE ELEV 808.02
E 6" UD (S) 805.17
E 12" (W) 804.67

PROP GROUND
EX. GROUND
30'-12" TYPE B @ 1.00%
30'-12" TYPE B @ 1.00%
7'-12" TYPE C @ 1.00%

STORM SEWER PROFILES

HAM-PLAINFIELD RD ROUNDABOUTS

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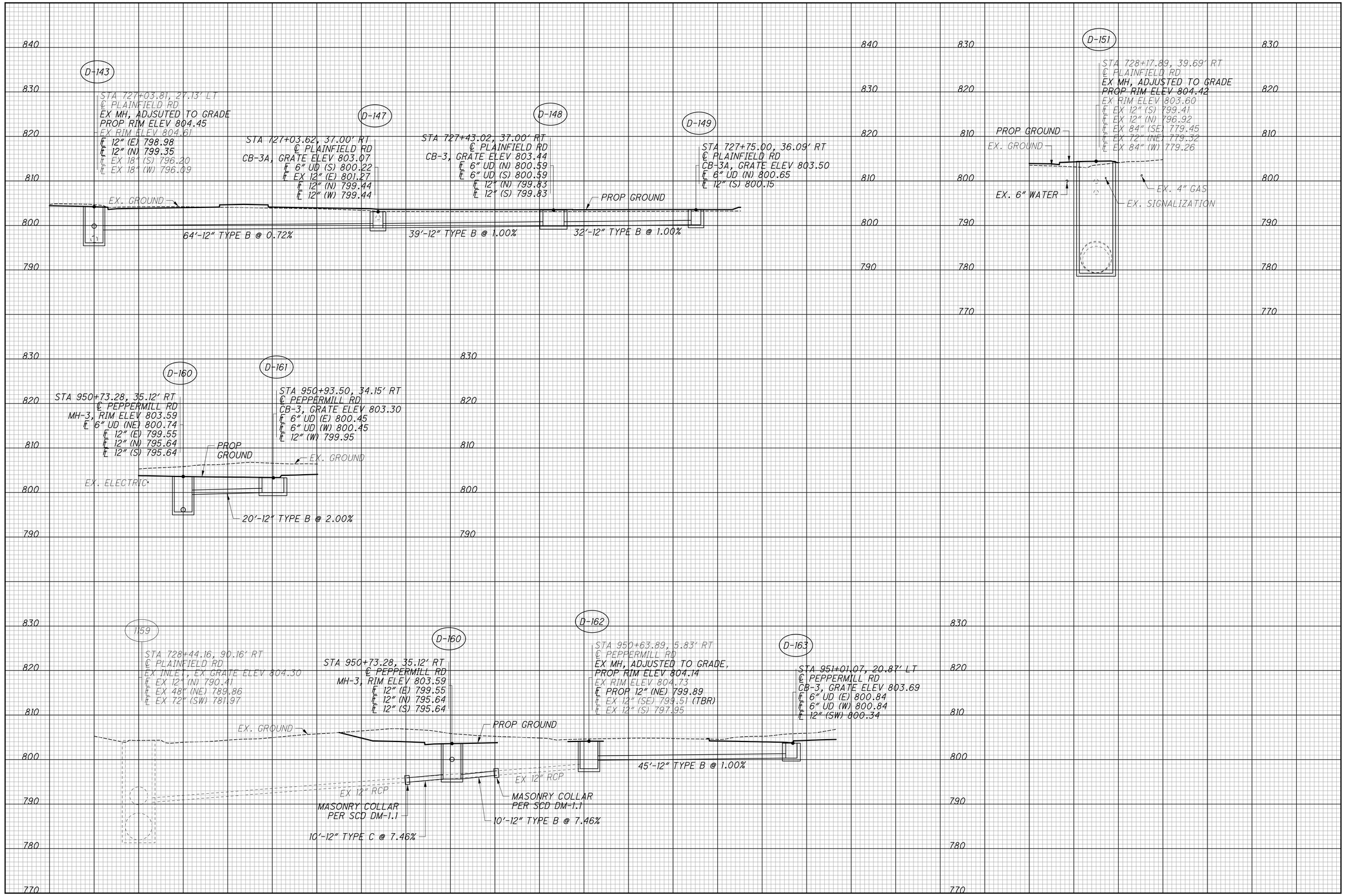

CALCULATED LZS
CHECKED JS

STORM SEWER PROFILES

HAM-PLAINFIELD RD ROUNDABOUTS

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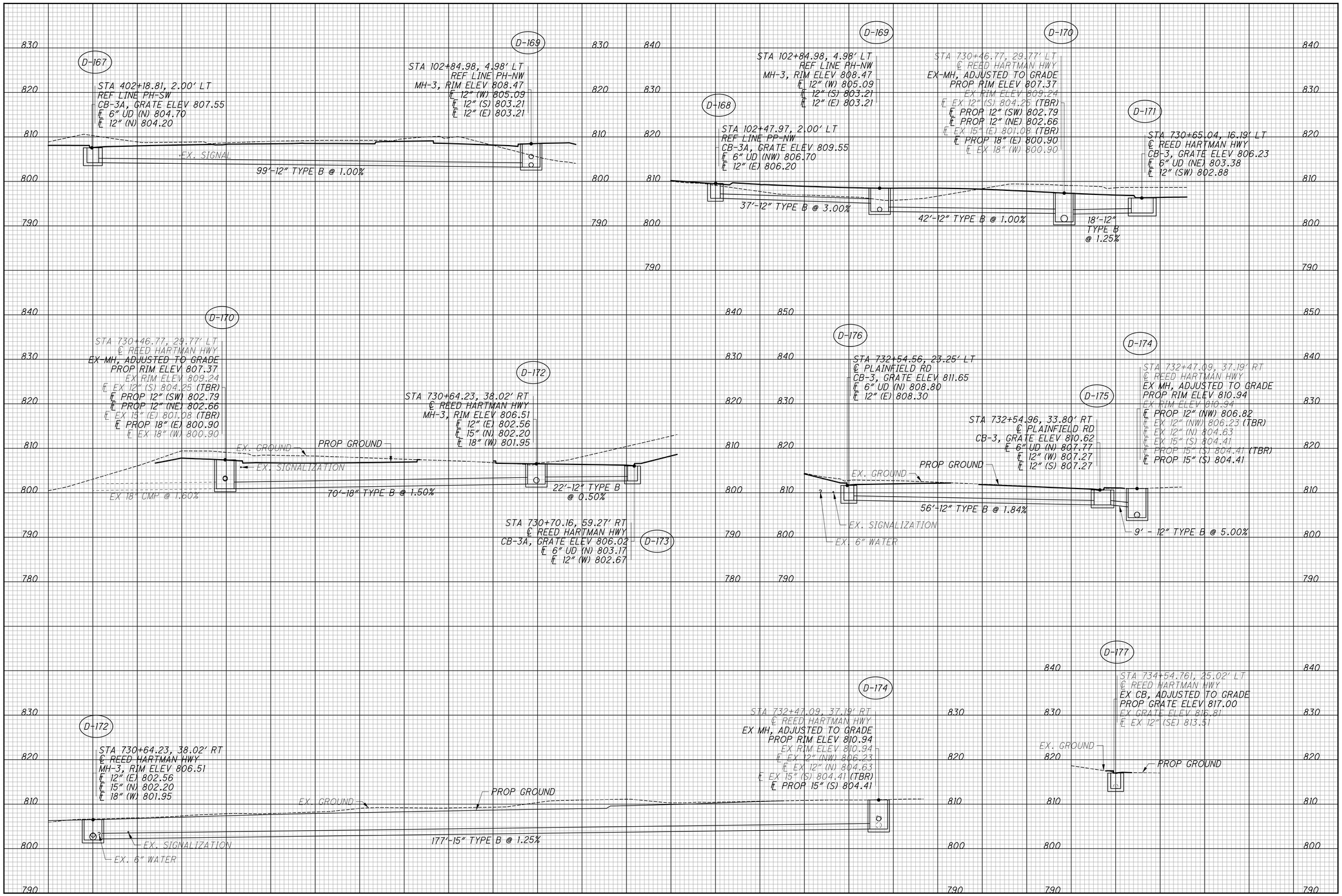

CALCULATED LZS
CHECKED JS

STORM SEWER PROFILES

HAM-PLAINFIELD RD ROUNDABOUTS

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CALCULATED LZS
CHECKED JS

STORM SEWER PROFILES

HAM-PLAINFIELD RD ROUNDABOUTS

D-191

STA 901+16.488, 18.16' LT
℄ PLAINFIELD RD
EX CB, ADJUSTED TO GRADE
PROP GRATE ELEV 820.98
EXIST GRATE ELEV 820.92
E EX 12" (NW) 818.14
E EX 12" (W) 818.07
E EX 12" (SE) 817.99

EX 12" HDPE

D-190

STA 902+39.08, 20.28' LT
℄ PLAINFIELD RD
CB-3A, GRATE ELEV 815.20
E 6" UD (W) 812.35
E EX 12" (NW) 813.17
E 12" (NE) 813.05

PROP GROUND

10' - 12" TYPE C @ 22.95%

MASONRY COLLAR PER SCD DM-1.1

EX. GROUND

EX 12" HDPE @ 22.95%

D-228

STA 102+10.46, 22.18' LT
REF LINE HK-NW
MH-3, RIM ELEV 796.90
E 24" (W) 793.54
E 24" (E) 793.54

D-227

STA 102+38.42, 15.61' LT
REF LINE HK-NW
MH-3, RIM ELEV 807.03
E 12" (SE) 803.52
E 24" (E) 797.50
E 24" (W) 794.89

D-222

STA 5+75.00, 6.00' RT
℄ KROGER ENTRANCE
MH-3, RIM ELEV 809.79
E 12" (NE) 804.20
E 12" (S) 802.43
E 18" (E) 801.93
E 24" (W) 799.93

D-220

STA 201+38.03, 15.23' LT
REF LINE HK-NE
MH-3, RIM ELEV 811.18
E 12" (S) 805.57
E 18" (E) 804.06
E 18" (W) 804.06

D-229

STA 101+80.00, 29.00' LT
REF LINE HK-NW
MH-3 (90"), RIM ELEV 797.41
E 24" (E) 792.14
E 24" (W) 791.50
E 12" (NW) 790.91
E 48" (SW) 790.14

EX 24" CMP

17'-24" TYPE C @ 3.58%

MASONRY COLLAR PER SCD DM-1.1

28'-24" TYPE C @ 5.00%

27'-24" TYPE C @ 5.00%

PROP GROUND

EX. GROUND

81'-24" TYPE B @ 3.00%

71'-18" TYPE B @ 3.00%

68'-18" TYPE B @ 6.67%

MATCH LINE A-A

D-217

STA 802+95.00, 39.00' LT
℄ EXIST HUNT RD
MH-3, RIM ELEV 815.68
E 12" (S) 810.06
E 18" (E) 808.60
E 18" (W) 808.60

MATCH LINE A-A

68'-18" TYPE B @ 6.67%

EX. GROUND

PROP GROUND

174'-18" TYPE B @ 6.67%

D-214

STA 804+69.33, 27.22' LT
℄ EXIST HUNT RD
MH-3, RIM ELEV 827.51
E 18" (E) 820.21
E 18" (W) 820.21

76'-18" TYPE B @ 4.00%

MATCH LINE B-B
SEE SHEET 252

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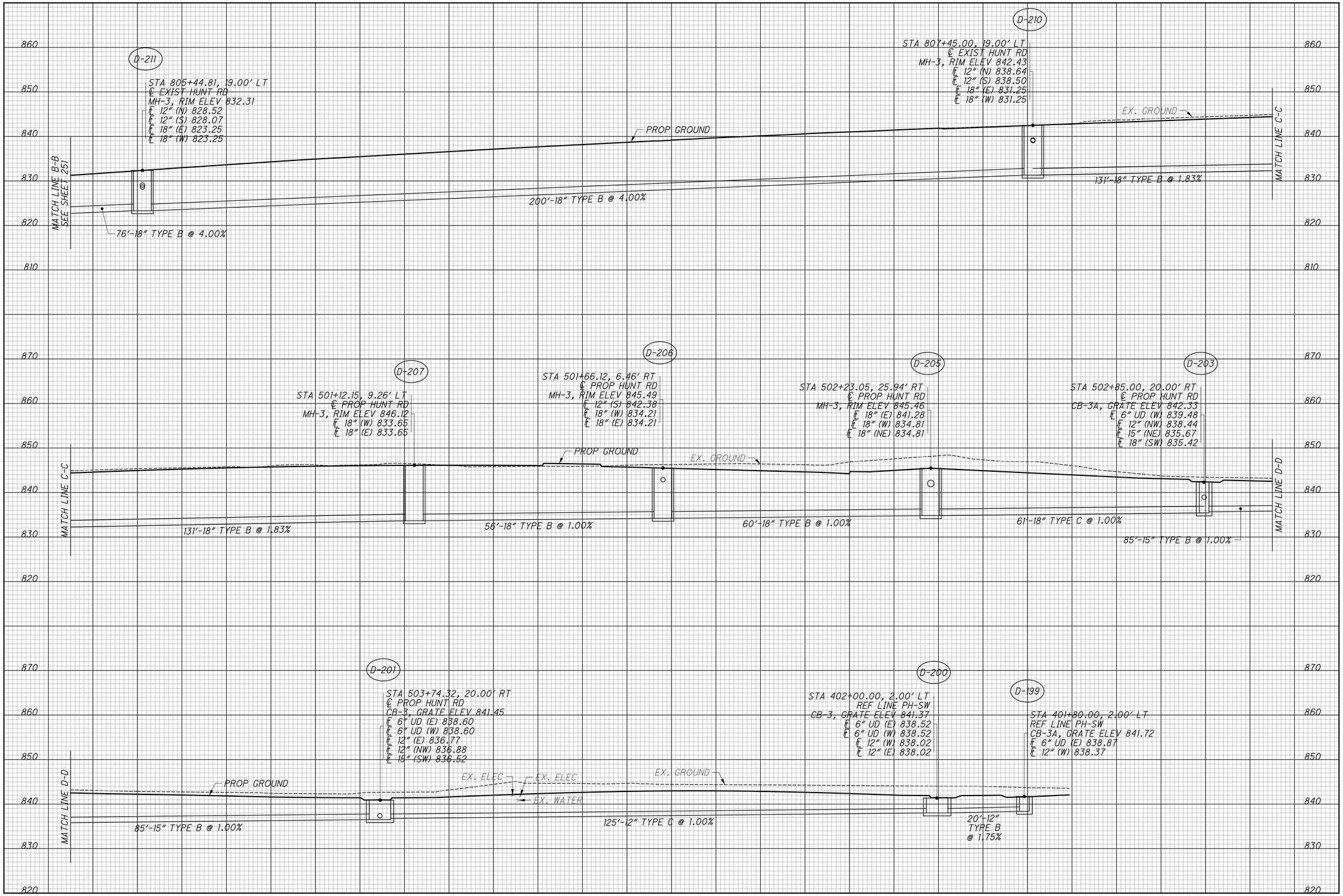
CALCULATED LZS CHECKED JS

STORM SEWER PROFILES

HAM-PLAINFIELD RD ROUNDABOUTS



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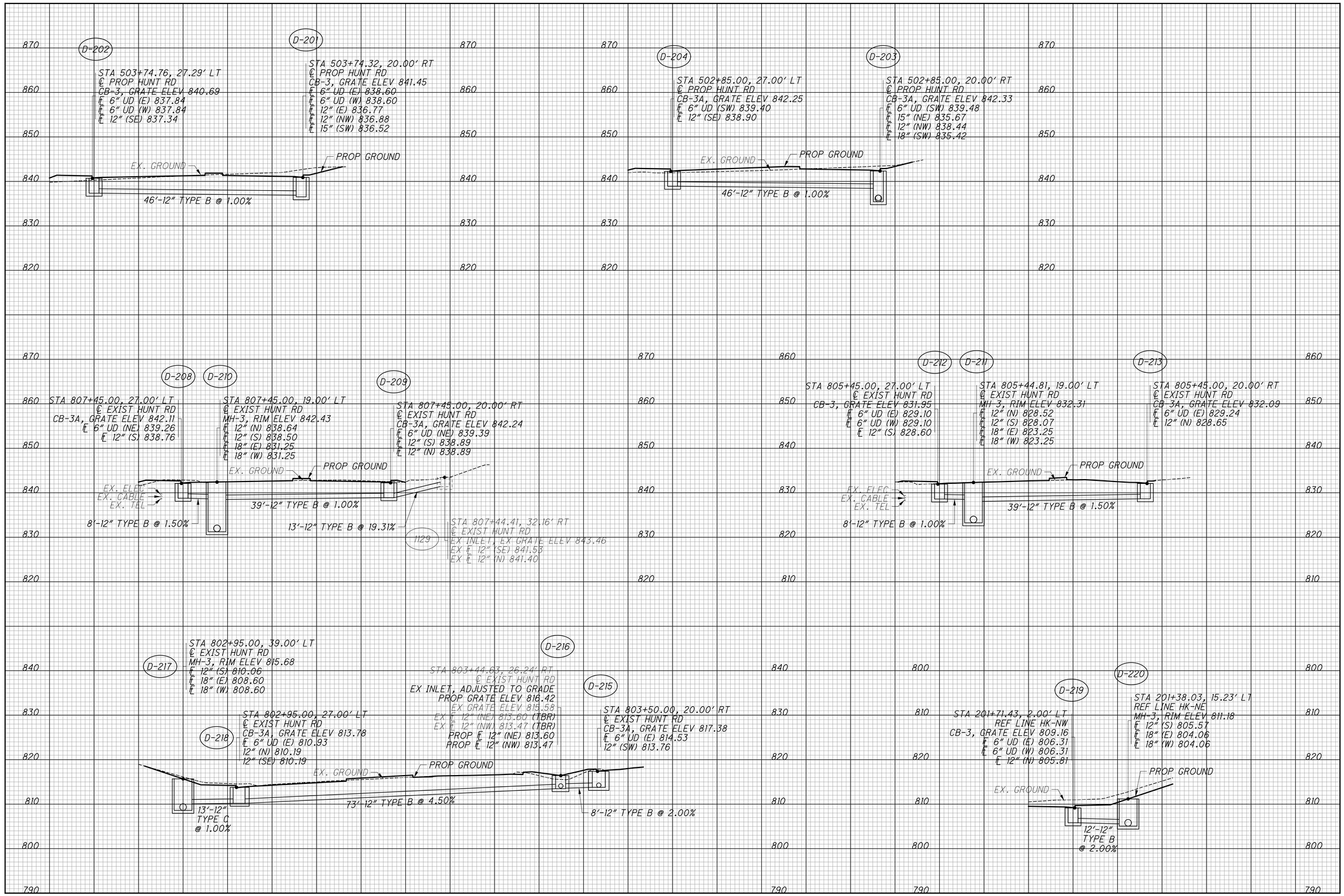

CALCULATED LZS
CHECKED JS

STORM SEWER PROFILES

HAM-PLAINFIELD RD ROUNDABOUTS

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D-223

STA 103+25.00, 0.00' LT
REF LINE HK-NW
CB-3A, GRATE ELEV 810.01
℄ 6" UD (N) 807.16
12" (SE) 806.66

EX. GROUND
PROP GROUND
54'-12" TYPE B @ 3.00%

D-221

STA 201+04.96, 2.00' LT
REF LINE HK-NE
CB-3, GRATE ELEV 808.90
℄ 6" UD (N) 806.05
℄ 6" UD (S) 806.05
℄ 12" (SW) 805.04
℄ 12" (NW) 805.04

D-221

STA 201+04.96, 2.00' LT
REF LINE HK-NE
CB-3, GRATE ELEV 808.90
℄ 6" UD (N) 806.05
℄ 6" UD (S) 806.05
℄ 12" (SW) 805.04
℄ 12" (NW) 805.04

D-222

STA 5+75.00, 6.00' RT
℄ KROGER ENTRANCE
MH-3, RIM ELEV 809.79
℄ 12" (NE) 804.20
℄ 12" (S) 802.43
℄ 18" (E) 801.93
℄ 24" (W) 799.93

EX. GROUND
PROP GROUND
EX. ELEC
EX. TEL
EX. CABLE
24'-12" TYPE B @ 3.50%
57'-12" TYPE B @ 1.00%

D-224

STA 801+25.00, 25.00' LT
℄ EXIST HUNT RD
MH-3, RIM ELEV 809.24
℄ 12" (N) 803.00
℄ 12" (S) 803.00

D-225

STA 302+73.94, 2.00' RT
REF LINE HK-CC
CB-3, GRATE ELEV 806.94
℄ 6" UD (E) 804.09
℄ 12" (N) 803.59

59'-12" TYPE B @ 1.00%

D-227

STA 102+38.42, 15.61' LT
REF LINE HK-NW
MH-3, RIM ELEV 807.03
℄ 12" (SE) 803.52
℄ 24" (E) 797.50
℄ 24" (W) 794.89

D-226

STA 102+40.00, 2.00' LT
REF LINE HK-NW
CB-3A, GRATE ELEV 807.15
℄ 6" UD (W) 804.30
℄ 12" (NW) 803.80

EX. GROUND
PROP GROUND
14'-12" TYPE C @ 2.00%
EX. CABLE
EX. ELEC
EX. TEL

D-229

STA 101+80.00, 29.00' LT
REF LINE HK-NW
MH-3 (90"), RIM ELEV 797.41
℄ 12" (S) 794.69
℄ 24" (E) 792.14
℄ 24" (W) 791.50
℄ 12" (NW) 790.91
℄ 48" (SW) 790.14

D-230

STA 101+77.00, 34.90' LT
REF LINE HK-NW
CB-2-2B, GRATE ELEV 793.00
℄ 12" (SE) 791.00

PROP GROUND
EX. GROUND
EX. CABLE
EX. ELEC
EX. TEL
9'-12" TYPE C @ 1.00%

D-229

STA 101+80.00, 29.00' LT
REF LINE HK-NW
MH-3 (90"), RIM ELEV 797.41
℄ 12" (S) 794.69
℄ 24" (E) 792.14
℄ 24" (W) 791.50
℄ 12" (NW) 790.91
℄ 48" (SW) 790.14

PROP GROUND
EX. GROUND
EX. 48" RCP
10'-48" TYPE B @ 3.72%
MASONRY COLLAR
PER SCD DM-1.1

1132

STA 811+18.27, 28.01' RT
℄ EXIST HUNT RD
CB-3, GRATE ELEV 847.32
℄ EX 12" (S) 843.12
℄ PROP 12" (N) 843.00
℄ EX 12" (NW) 843.00
℄ EX 12" (SW) 843.00

D-231

STA 811+77.34, 28.45' RT
℄ EXIST HUNT RD
CB-3, GRATE ELEV 846.53
℄ 12" (W) 843.53

EX. GROUND
59'-12" TYPE B @ 0.90%

D-206

STA 501+66.12, 6.46' RT
℄ PROP HUNT RD
MH-3, RIM ELEV 845.49
℄ 12" (S) 842.38
℄ 18" (W) 834.21
℄ 18" (E) 834.21

D-232

STA 809+34.11, 23.27' RT
℄ EXIST HUNT ROAD
CB-3, GRATE ELEV 847.23
℄ 12" (N) 843.88

PROP GROUND
EX. GROUND
50'-12" TYPE B @ 3.00%

D-240

STA 606+83.36, 4.62' LT
SR 126 ENTRANCE RAMP
EX. CB, GRATE ELEV 851.20
℄ 12" RCP (S) 847.46
℄ 12" RCP (E) 847.37

STA 606+83.23, 27.53' RT
℄ SR 126 ENTRANCE RAMP
CB-3, GRATE ELEV 850.50
℄ 6" UD (W) 848.15
℄ 12" (N) 847.65

PROP GROUND
EX. GROUND
32'-12" TYPE B @ 0.59%

CALCULATED LZS
CHECKED JS

STORM SEWER PROFILES

HAM-PLAINFIELD RD ROUNDABOUTS

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335

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REFERENCE NO.	SHEET NO.	ALIGNMENT	STATION FROM	STATION TO	LENGTH (FT)	SIDE	644 EDGE LINE, 4"	644 EDGE LINE, 6"	644 LANE LINE, 4"	644 LANE LINE, 6"	644 CENTER LINE	644 CHANNELIZING LINE, 8"	644 CHANNELIZING LINE, 12"	644 STOP LINE	644 TRANSVERSE/DIAGONAL LINE	644 ISLAND MARKING	644 YIELD LINE	646 LANE LINE, 4"	646 CENTER LINE	646 CHANNELIZING LINE, 8"	646 STOP LINE	NOTES
							MILE	MILE	MILE	MILE	MILE	FT	FT	FT	FT	SF	FT	MILE	MILE	FT	FT	
EW	267	EX HUNT RD	797+56.00	798+75.00	119	RT	0.02															**
SP	267	EX HUNT RD	798+02.00		24	LT/RT								24								**
DBL	267	EX HUNT RD	798+02.00	800+09.00	207	RT					0.04											**
CHW	267	EX HUNT RD	798+02.00	800+09.00	207	LT						207										**
YE	267	EX HUNT RD	800+09.00	800+91.00	82	LT	0.02															**
YE	267	EX HUNT RD	800+09.00	800+88.00	79	LT	0.01															**
YL	267	EX HUNT RD	800+88.00		16	RT											16					**
YE	267 - 268	EX HUNT RD	801+91.00	807+67.73	577	RT	0.11															**
YL	267	EX HUNT RD	801+97.00		22	LT											22					**
YE	267 - 268	EX HUNT RD	801+97.00	807+67.73	571	LT	0.11															**
SP	267 - 268	EX HUNT RD	804+39.00	804+51.00	18	LT								18								**
YE	267	KROGER ENTRANCE	5+61.00	6+90.00	129	RT	0.02															**
YL	267	KROGER ENTRANCE	5+66.00		23	LT											23					**
YE	267	KROGER ENTRANCE	5+66.00	6+90.00	124	LT	0.02															**
EW	267	REF LINE HK-CC	90+06.00	90+44.00	33	RT	0.01															**
EW	267	REF LINE HK-CC	91+00.00	91+37.00	37	LT/RT	0.01															**
EW	267	REF LINE HK-CC	92+57.00	92+93.00	36	LT/RT	0.01															**
EW	268	EX HUNT RD	804+51.00	805+10.00	59	LT	0.01															
YE	268	EX HUNT RD	804+51.00	804+69.00	42	LT	0.01															
YE	268	EX HUNT RD	804+69.00	805+10.00	63	LT	0.01															
CHW	268	EX HUNT RD	805+10.00	805+94.00	84	LT						84										
LL	268 - 269	HUNT RD	500+00.00	504+45.00	445	LT			0.08													
YE	268 - 269	HUNT RD	500+00.00	505+62.00	562	LT	0.11															
YE	268 - 269	HUNT RD	500+00.00	505+40.00	540	RT	0.10															
DBL	269	HUNT RD	503+93.00		18	RT					0.00											
SP	269	HUNT RD	504+19.00	504+41.00	22	RT								22								
EW	269	HUNT RD	504+45.00	505+87.00	142	LT	0.03															
YL	269	HUNT RD	505+40.00		15	RT											15					
YE	269 - 271	EX HUNT RD	814+37.00	817+81.00	344	RT	0.07															
YE	269 - 271	EX HUNT RD	814+59.00	817+81.00	322	LT	0.06															
YE	269 - 271	EX HUNT RD	814+59.00	816+90.00	231	LT	0.04															
YL	269	EX HUNT RD	814+59.00		13	LT											13					
YL	269	EX HUNT RD	814+59.00		16	LT											16					
YL	269	EX HUNT RD	814+61.00		12	LT											12					
CHW	269 - 271	EX HUNT RD	814+61.00	815+91.00	130	LT						130										
EW	269 - 271	EX HUNT RD	814+61.00	816+90.00	229	LT	0.04															
CHW	269	REF LINE PH-CC	90+86.00	91+48.00	62	LT						62										
EW	269	REF LINE PH-CC	90+88.00	91+40.00	52	CL	0.01															
CHW	269	REF LINE PH-CC	91+79.00	92+73.00	94	LT						94										
EW	269	REF LINE PH-CC	92+09.00	92+61.00	52	RT	0.01															
EW	269	REF LINE PH-CC	93+18.00	93+79.00	61	RT	0.01															
CHW	269	REF LINE PH-CC	94+27.00	90+22.00	53	CL						53										
LL	269 & 272	PLAINFIELD RD	711+44.00	713+13.00	169	RT			0.03													
CHW	269 & 272	PLAINFIELD RD	711+52.00	713+07.00	155	LT						155										
LL	269 & 272	PLAINFIELD RD	711+53.00	713+28.00	175	LT			0.03													
YE	269 & 272	PLAINFIELD RD	712+94.00	714+52.00	158	LT	0.03															
YE	269 & 272	PLAINFIELD RD	712+95.00	714+42.00	147	RT	0.03															
CHW	269	PLAINFIELD RD	713+13.00	714+48.00	135	RT						135										
CHW	269	PLAINFIELD RD	713+28.00	714+58.00	130	LT						130										
YL	269	PLAINFIELD RD	714+42.00		12	RT											12					
YL	269	PLAINFIELD RD	714+48.00		12	RT											12					
EW	269	PLAINFIELD RD	715+27.00	716+44.00	192	LT	0.04															
CHW	269 & 273	PLAINFIELD RD	715+62.00	717+50.00	188	RT						188										
EW	269	PLAINFIELD RD	715+76.00	716+43.00	67	LT	0.01															
YE	269 & 273	PLAINFIELD RD	715+77.00	720+91.00	514	RT	0.10															
**100% LOCAL FUNDING SPLIT CARRIED TO SHEET 257							0.34	0.00	0.00	0.00	0.04	207	0	42	0	0.00	61	0.00	0.00	0	0	
SUBTOTALS CARRIED TO SHEET 257							1.06	0.00	0.14	0.00	0.04	1238	0	64	0	0	141	0.00	0.00	0	0	

CALCULATED CML CHECKED JS

PAVEMENT MARKING SUBSUMMARY

HAM-PLAINFIELD RD ROUNDABOUTS

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REFERENCE NO.	SHEET NO.	ALIGNMENT	STATION FROM	STATION TO	LENGTH (FT)	SIDE	644 EDGE LINE, 4"	644 EDGE LINE, 6"	644 LANE LINE, 4"	644 LANE LINE, 6"	644 CENTER LINE	644 CHANNELIZING LINE, 8"	644 CHANNELIZING LINE, 12"	644 STOP LINE	644 TRANSVERSE/DIAGONAL LINE	644 ISLAND MARKING	644 PAVEMENT MARKINGS, MISC.; SHARK TOOTH	646 LANE LINE, 4"	646 CENTER LINE	646 CHANNELIZING LINE, 8"	646 STOP LINE	NOTES
			MILE				MILE	MILE	MILE	MILE	MILE	FT	FT	FT	FT	SF	EACH	MILE	MILE	FT	FT	
YL	269	PLAINFIELD RD	715+83.00		12	LT											4					
CHW	269 & 273	PLAINFIELD RD	715+83.00	718+14.00	231	LT						231										
YL	269	PLAINFIELD RD	715+88.00		12	LT											4					
YE	269 & 273	PLAINFIELD RD	715+88.00	720+91.00	503	CL	0.10															
CHW	269 & 273	PLAINFIELD RD	716+43.00	718+14.00	171	LT						171										
CHW	269 & 273	PLAINFIELD RD	716+44.00	716+73.00	29	LT						29										
DBL	271	EX HUNT RD	817+81.00	818+34.00	53	LT					0.01											
CHW	271	EX HUNT RD	817+81.00	818+42.00	61	RT						61										
SP	271	EX HUNT RD	818+34.00		11	LT								11								
SP	271	EX HUNT RD	818+42.00		11	RT								11								
YE	272	PLAINFIELD RD	707+36.00	708+31.00	95	RT	0.02															
LL	272	PLAINFIELD RD	707+36.00	708+31.00	95	RT			0.02													
CHW	272	PLAINFIELD RD	707+36.00	708+31.00	95	RT						95										
YTL	272	PLAINFIELD RD	708+00.00	708+31.00	55	LT/RT									55							
LL	272	PLAINFIELD RD	708+00.00	708+31.00	31	LT			0.01													
YE	272	PLAINFIELD RD	708+00.00	708+31.00	31	LT	0.01															
SP	272	PLAINFIELD RD	708+31.00		37	RT								37								
YTI	272	PLAINFIELD RD	708+31.00		100	LT/RT										100						
SP	272	PLAINFIELD RD	709+44.00		24	LT								24								
LL	272	PLAINFIELD RD	709+44.00	709+99.00	55	LT			0.01													
CHW	272	PLAINFIELD RD	709+44.00	709+96.00	52	LT						52										
SP	272	PLAINFIELD RD	709+61.00		11	LT								11								
CHW	272	PLAINFIELD RD	709+61.00	709+94.00	33	CL						33										
CHW*	272	PLAINFIELD RD	709+94.00	711+49.00	155	CL														155		
CHW*	272	PLAINFIELD RD	709+96.00	711+52.00	156	LT														156		
LL*	272	PLAINFIELD RD	709+99.00	711+53.00	154	LT												0.03				
DBL*	272	PLAINFIELD RD	710+11.00	711+47.00	136	RT													0.03			
LL*	272	PLAINFIELD RD	710+11.00	711+44.00	133	RT												0.03				
SP*	272	PLAINFIELD RD	710+11.00		11	RT															11	
DBL	272	PLAINFIELD RD	711+47.00	711+63.00	16	RT					0.00											
CHW	272	PLAINFIELD RD	711+49.00	712+81.00	132	CL						132										
LLW	272 & 279	SR 126 ENTRANCE RAMP	600+57.00	601+47.00	90	RT				0.02												
YEW	272 & 279	SR 126 ENTRANCE RAMP	600+56.00	609+60.00	904	RT		0.17														
EWW	272 & 279	SR 126 ENTRANCE RAMP	600+58.00	609+60.00	902	RT		0.17														
EWW	272	SR 126 EXIT RAMP	507+09.00	507+61.00	52	CL		0.01														
YEW	272	SR 126 EXIT RAMP	507+09.00	507+61.00	52	LT		0.01														
CH	272	SR 126 EXIT RAMP	507+09.00	507+61.00	52	LT							52									
CH	272	SR 126 EXIT RAMP	507+09.00	507+61.00	52	LT							52									
SP	272	SR 126 EXIT RAMP	507+61.00		36	LT								36								
LL	273	PLAINFIELD RD	717+50.00	721+01.00	351	RT			0.07													
LL	273	PLAINFIELD RD	718+14.00	720+86.00	272	LT			0.05													
CHW	273	PLAINFIELD RD	719+15.00	721+01.00	186	RT						186										
DBL	273	PLAINFIELD RD	720+91.00	721+01.00	10	CL					0.00											
SP	273	PLAINFIELD RD	721+01.00		34	RT								34								
SP	273	ST ANDREWS PL	750+54.00		19	LT								19								
DBL	273	ST ANDREWS PL	750+54.00	750+65.00	11	CL					0.00											
DBL	273	GEORGETOWN RD	876+45.00	876+62.00	17	CL					0.00											
SP	273	GEORGETOWN RD	876+62.00		20	RT								20								
**100% LOCAL FUNDING SPLIT CARRIED TO SHEET 257							0.00	0.00	0.00	0.00	0.00	0	0	0	0	0.00	0	0.00	0.00	0	0	
SUBTOTALS CARRIED TO SHEET 257							0.13	0.36	0.16	0.02	0.01	990	104	203	55	100	8	0.06	0.03	311	11	

CALCULATED CML CHECKED JS

PAVEMENT MARKING SUBSUMMARY

HAM-PLAINFIELD RD ROUNDABOUTS

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REFERENCE NO.	SHEET NO.	ALIGNMENT	STATION FROM	STATION TO	LENGTH (FT)	SIDE	644 EDGE LINE, 4"	644 EDGE LINE, 6"	644 LANE LINE, 4"	644 LANE LINE, 6"	644 CENTER LINE	644 CHANNELIZING LINE, 8"	644 CHANNELIZING LINE, 12"	644 STOP LINE	644 TRANSVERSE/DIAGONAL LINE	644 ISLAND MARKING	644 PAVEMENT MARKING, MISC.: SHARK TOOTH	646 LANE LINE, 4"	646 CENTER LINE	646 CHANNELIZING LINE, 8"	646 STOP LINE	NOTES
							MILE	MILE	MILE	MILE	MILE	FT	FT	FT	FT	SF	EACH	MILE	MILE	FT	FT	
SP	274	PLAINFIELD RD	722+04.00		35	LT/RT								35								
LL	274	PLAINFIELD RD	722+04.00	727+42.00	538	LT			0.10													
CHW	274	PLAINFIELD RD	722+04.00	723+50.00	146	CL						146										
DBL	274	PLAINFIELD RD	722+04.00	723+50.00	146	RT					0.03											
LL	274	PLAINFIELD RD	722+04.00	727+47.00	543	RT			0.10													
YE	274 & 275	PLAINFIELD RD	723+50.00	728+97.00	547	CL	0.10															
YE	274 & 275	PLAINFIELD RD	723+50.00	728+93.00	543	RT	0.10															
CHW	274 & 275	PLAINFIELD RD	727+42.00	729+29.00	187	LT						187										
CHW	274 & 275	PLAINFIELD RD	727+47.00	728+99.00	152	RT						152										
YE	275	PEPPERMILL LN	950+76.00	952+05.00	129	RT	0.02															
YE	275	PEPPERMILL LN	950+80.00	952+05.00	125	LT/RT	0.02															
YL	275	PEPPERMILL LN	950+82.00		14	LT											5					
DBL	275	PEPPERMILL LN	952+05.00	952+88.00	83	CL					0.02											
CHW	275 & 278	REED HARTMAN HWY	730+06.00	731+63.00	157	RT						157										
YE	275 & 278	REED HARTMAN HWY	730+18.00	734+10.00	392	RT	0.07															
YL	275	REED HARTMAN HWY	730+27.00		12	LT											4					
YE	275 & 278	REED HARTMAN HWY	730+27.00	734+10.00	383	LT/RT	0.07															
YL	275	REED HARTMAN HWY	730+28.00		13	LT											4					
CHW	275 & 278	REED HARTMAN HWY	730+28.00	731+60.00	132	LT/RT						132										
YL	275	PLAINFIELD RD	728+91.00		12	RT											4					
YL	275	PLAINFIELD RD	728+99.00		12	RT											4					
YE	275 & 277	PLAINFIELD RD	901+94.00	903+81.00	187	RT	0.04															
YE	275 & 277	PLAINFIELD RD	901+94.00	903+88.00	194	LT	0.04															
CHW	275	PLAINFIELD RD	902+67.00	903+82.00	115	RT						115										
YL	275	PLAINFIELD RD	903+81.00		15	RT											5					
YL	275	PLAINFIELD RD	903+82.00		15	RT											5					
CHW	275	REF LINE PP-CC	90+67.00	91+18.00	51	CL						51										
EW	275	REF LINE PP-CC	90+74.00	91+05.00	31	LT	0.01															
EW	275	REF LINE PP-CC	91+48.00	91+95.00	47	LT	0.01															
CHW	275	REF LINE PP-CC	92+36.00	92+93.00	57	CL						57										
EW	275	REF LINE PP-CC	92+49.00	92+81.00	32	LT	0.01															
EW	275	REF LINE PP-CC	93+38.00	93+83.00	45	LT	0.01															
DBL	277	PLAINFIELD RD	901+40.00	901+94.00	54	RT					0.01											
CHW	277	PLAINFIELD RD	901+40.00	901+94.00	54	LT						54										
LL	278	REED HARTMAN HWY	731+60.00	734+10.00	250	LT			0.05													
LL	278	REED HARTMAN HWY	731+63.00	734+10.00	247	RT			0.05													
**100% LOCAL FUNDING SPLIT SUBTOTALS FROM THIS SHEET							0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0	0.00	0.00	0	0	
**100% LOCAL FUNDING SPLIT SUBTOTALS FROM SHEET 255							0.34	0.00	0.00	0.00	0.04	207	0	42	0	0	20	0.00	0.00	0	0	
**100% LOCAL FUNDING SPLIT SUBTOTALS FROM SHEET 256							0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0	0.00	0.00	0	0	
**100% LOCAL FUNDING SPLIT CARRIED TO GENERAL SUMMARY							0.34	0.00	0.00	0.00	0.04	207	0	42	0	0	20	0.00	0.00	0	0	
SUBTOTALS FROM THIS SHEET							0.50	0.00	0.30	0.00	0.06	1051	0	35	0	0	31	0.00	0.00	0	0	
SUBTOTALS FROM SHEET 255							1.06	0.00	0.14	0.00	0.04	1238	0	64	0	0	46	0.00	0.00	0	0	
SUBTOTALS FROM SHEET 256							0.13	0.36	0.16	0.02	0.01	990	104	203	55	100	8	0.06	0.03	311	11	
TOTALS CARRIED TO GENERAL SUMMARY							1.69	0.36	0.60	0.02	0.11	3279	104	302	55	100	85	0.06	0.03	311	11	

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PAVEMENT MARKING SUBSUMMARY

HAM-PLAINFIELD RD ROUNDABOUTS

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REFERENCE NO.	SHEET NO.	ALIGNMENT	STATION FROM	STATION TO	LENGTH (FT)	SIDE	644 CROSSWALK LINE	644 LANE ARROW	644 WORD ON PAVEMENT, 72"	644 DOTTED LINE, 4"	644 DOTTED LINE, 6"	644 DOTTED LINE, 8"	644 DOTTED LINE, 12"	646 WORD ON PAVEMENT, 72"	646 DOTTED LINE, 4"						NOTES
							FT	EACH	EACH	FT	FT	FT	FT	EACH	FT						
LA	267	EX HUNT RD	798+12.00			CL		1													**
LA	267	EX HUNT RD	798+75.00			CL		1													**
LA	267	EX HUNT RD	799+39.00			CL		1													**
LA	267	EX HUNT RD	800+05.00			CL		1													**
DL	267	REF LINE HK-CC	90+52.00	91+00.00	42	LT/RT							42								**
DL	267	REF LINE HK-CC	92+35.00	92+57.00	26	LT							26								**
DL	267	REF LINE HK-CC	93+15.00	90+06.00	49	LT/RT							49								**
CW	267	KROGER ENTRANCE	5+96.00	6+06.00	40	RT	40														**
CW	267	KROGER ENTRANCE	5+98.00	6+08.00	40	LT	40														**
CW	268	EX HUNT RD	804+51.00	804+87.00	100	LT	100														**
LA	268	EX HUNT RD	804+51.00			LT		1													**
LA	268	EX HUNT RD	805+22.00			LT		1													
WP	268	EX HUNT RD	805+55.00			LT			1												
LA	268	EX HUNT RD	805+88.00			LT		1													
WDL	268	EX HUNT RD	805+94.00	807+67.00	173	LT						173									
CW	269	HUNT RD	505+03.00	505+13.00	100	LT	100														
CW	269	HUNT RD	505+05.00	505+15.00	40	RT	40														
DL	269	REF LINE PH-CC	90+14.00	90+40.00	31	RT							31								
LLD	269	REF LINE PH-CC	90+22.00	90+63.00	42	CL				42											
LLD	269	REF LINE PH-CC	90+34.00	90+86.00	42	LT				42											
DL	269	REF LINE PH-CC	90+56.00	90+92.00	54	RT							54								
LA	269	REF LINE PH-CC	90+97.00			LT		1													
LA	269	REF LINE PH-CC	91+02.00			LT		1													
DL	269	REF LINE PH-CC	91+40.00	91+79.00	40	RT							40								
LLD	269	REF LINE PH-CC	91+48.00	91+79.00	26	LT				26											
LA	269	REF LINE PH-CC	91+96.00			LT		1													
LA	269	REF LINE PH-CC	92+20.00			LT		1													
DL	269	REF LINE PH-CC	92+61.00	92+92.00	35	RT							35								
LLD	269	REF LINE PH-CC	92+73.00	93+04.00	33	LT/RT				33											
LA	269	REF LINE PH-CC	93+32.00			LT		1													
DL	269	REF LINE PH-CC	93+79.00	94+23.00	44	RT							44								
LA	269	REF LINE PH-CC	94+40.00			LT		1													
LA	269	REF LINE PH-CC	94+42.00			RT		1													
LA	269	EX HUNT RD	814+67.00			LT		1													
CW	269	EX HUNT RD	814+71.00	814+81.00	40	RT	40														
LA	269	EX HUNT RD	814+71.00			LT		1													
LA	269	EX HUNT RD	814+77.00			LT		1													
CW	269	EX HUNT RD	814+87.00	814+96.00	70	LT	70														
CW	269	EX HUNT RD	814+97.00	815+06.00	40	LT	40														
LA	269	EX HUNT RD	815+21.00			LT		1													
LA	269	EX HUNT RD	815+22.00			LT		1													
LA	269	PLAINFIELD RD	713+13.00			RT		1													
LA	269	PLAINFIELD RD	713+13.00			RT		1													
CW	269	PLAINFIELD RD	714+05.00	714+15.00	70	RT	70														
CW	269	PLAINFIELD RD	714+06.00	714+16.00	70	LT	70														
LA	269	PLAINFIELD RD	714+26.00			RT		1													
LA	269	PLAINFIELD RD	714+29.00			RT		1													
LA	269	PLAINFIELD RD	715+97.00			LT		1													
LA	269	PLAINFIELD RD	716+03.00			LT		1													
CW	269	PLAINFIELD RD	716+11.00	716+20.00	80	RT	80														
CW	269	PLAINFIELD RD	716+19.00	716+28.00	70	LT	70														
CW	269	PLAINFIELD RD	716+28.00	716+37.00	40	LT	40														
**100% LOCAL FUNDING SPLIT CARRIED TO SHEET 260							180	5	0	0	0	0	117	0	0						
SUBTOTALS CARRIED TO SHEET 260							800	25	1	143	0	173	321	0	0						

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PAVEMENT MARKING SUBSUMMARY

HAM-PLAINFIELD RD ROUNDABOUTS

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REFERENCE NO.	SHEET NO.	ALIGNMENT	STATION FROM	STATION TO	LENGTH (FT)	SIDE	644 CROSSWALK LINE	644 LANE ARROW	644 WORD ON PAVEMENT, 72"	644 DOTTED LINE, 4"	644 DOTTED LINE, 6"	644 DOTTED LINE, 8"	644 DOTTED LINE, 12"	646 WORD ON PAVEMENT, 72"	646 DOTTED LINE, 4"							NOTES
			FT				FT	EACH	EACH	FT	FT	FT	FT	EACH	FT							
WP	271	EX HUNT RD	816+35.00			LT			1													
LA	271	EX HUNT RD	816+90.00			LT		1														
LA	271	EX HUNT RD	816+90.00			LT		1														
WDL	271	EX HUNT RD	816+90.00	818+50.00	160	LT						160										
LA	271	EX HUNT RD	817+87.00			CL		1														
LA	271	EX HUNT RD	818+24.00			CL		1														
LA	272	PLAINFIELD RD	707+56.00			RT		1														
LA	272	PLAINFIELD RD	708+22.00			RT		1														
CW	272	PLAINFIELD RD	708+54.00	708+97.00	120	RT	120															
DLE	272	PLAINFIELD RD	708+80.00	709+61.00	107	RT				107												
CW	272	PLAINFIELD RD	708+82.00	709+31.00	140	LT	140															
DLE	272	PLAINFIELD RD	709+16.00	709+90.00	118	LT/RT				118												
LA	272	PLAINFIELD RD	709+71.00			LT		1														
DLE*	272	PLAINFIELD RD	709+90.00	710+11.00	21	RT									21							
LA*	272	PLAINFIELD RD	710+21.00			RT								1								
LA*	272	PLAINFIELD RD	710+21.00			LT								1								
LA*	272	PLAINFIELD RD	710+87.00			RT								1								
LA*	272	PLAINFIELD RD	710+87.00			LT								1								
LA	272	PLAINFIELD RD	711+53.00			RT		1														
LA	272	PLAINFIELD RD	711+53.00			LT		1														
LA	272	PLAINFIELD RD	712+19.00			RT		1														
LA	272	PLAINFIELD RD	712+19.00			LT		1														
LA	272	PLAINFIELD RD	712+85.00			RT		1														
LA	272	PLAINFIELD RD	712+85.00			LT		1														
LA	272	SR 126 EXIT RAMP	507+51.00			LT		1														
LA	272	SR 126 EXIT RAMP	507+51.00			LT		1														
LA	272	SR 126 EXIT RAMP	507+51.00			LT		1														
LA	273	PLAINFIELD RD	717+06.00			LT		1														
LA	273	PLAINFIELD RD	717+06.00			LT		1														
LA	273	PLAINFIELD RD	717+06.00			LT		1														
LA	273	PLAINFIELD RD	719+59.00			RT		1														
LA	273	PLAINFIELD RD	720+25.00			RT		1														
LA	273	PLAINFIELD RD	720+91.00			RT		1														
CW	273	PLAINFIELD RD	721+14.00	721+68.00	150	LT	150															
CW	273	PLAINFIELD RD	721+36.00	721+74.00	110	RT	110															
CW	273	PLAINFIELD RD	721+90.00	722+00.00	150	LT/RT	150															
LA	274	PLAINFIELD RD	722+14.00			RT		1														
LA	274	PLAINFIELD RD	722+80.00			RT		1														
LA	274	PLAINFIELD RD	723+46.00			RT		1														
LA	274	PLAINFIELD RD	727+47.00			RT		1														
LA	274	PLAINFIELD RD	727+47.00			RT		1														
CW	275	PLAINFIELD RD	728+58.00	728+68.00	70	RT	70															
CW	275	PLAINFIELD RD	728+58.00	728+68.00	80	LT	80															
LA	275	PLAINFIELD RD	728+79.00			RT		1														
LA	275	PLAINFIELD RD	728+83.00			RT		1														
LA	275	PLAINFIELD RD	902+75.00			RT		1														
LA	275	PLAINFIELD RD	902+80.00			RT		1														
WP	275	PLAINFIELD RD	903+06.00			RT			1													
CW	275	PLAINFIELD RD	903+45.00	903+55.00	40	LT	40															
CW	275	PLAINFIELD RD	903+49.00	903+59.00	80	RT	80															
LA	275	PLAINFIELD RD	903+65.00			RT		1														
LA	275	PLAINFIELD RD	903+73.00			RT		1														
**100% LOCAL FUNDING SPLIT CARRIED TO SHEET 260							0	0	0	0	0	0	0	0	0							
SUBTOTALS CARRIED TO SHEET 260							940	33	2	225	0	160	0	4	21							

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PAVEMENT MARKING SUBSUMMARY

HAM-PLAINFIELD RD ROUNDABOUTS

259
335

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REFERENCE NO.	SHEET NO.	ALIGNMENT	STATION FROM	STATION TO	LENGTH (FT)	SIDE	644 CROSSWALK LINE	644 LANE ARROW	644 WORD ON PAVEMENT, 72"	644 DOTTED LINE, 4"	644 DOTTED LINE, 6"	644 DOTTED LINE, 8"	644 DOTTED LINE, 12"	646 WORD ON PAVEMENT, 72"	646 DOTTED LINE, 4"							NOTES
							FT	EACH	EACH	FT	FT	FT	FT	EACH	FT							
LA	275	REED HARTMAN HWY	730+37.00			LT		1														
LA	275	REED HARTMAN HWY	730+39.00			LT		1														
CW	275	REED HARTMAN HWY	730+49.00	730+59.00	80	RT	80															
CW	275	REED HARTMAN HWY	730+61.00	730+70.00	70	LT	70															
LA	275	PEPPERMILL LN	950+91.00			LT		1														
CW	275	PEPPERMILL LN	951+03.00	951+13.00	40	LT	40															
CW	275	PEPPERMILL LN	951+06.00	951+15.00	40	RT	40															
LLD	275	REF LINE PP-CC	90+22.00	90+67.00	45	CL				45												
DL	275	REF LINE PP-CC	90+31.00	90+74.00	52	LT							52									
LA	275	REF LINE PP-CC	90+96.00			LT		1														
LA	275	REF LINE PP-CC	91+04.00			RT		1														
DL	275	REF LINE PP-CC	91+08.00	91+48.00	54	LT							54									
LA	275	REF LINE PP-CC	91+82.00			RT		1														
LLD	275	REF LINE PP-CC	92+14.00	92+36.00	24	LT				24												
DL	275	REF LINE PP-CC	92+21.00	92+49.00	34	LT							34									
LA	275	REF LINE PP-CC	92+72.00			LT		1														
LA	275	REF LINE PP-CC	92+80.00			RT		1														
DL	275	REF LINE PP-CC	92+88.00	93+38.00	62	LT							62									
LA	275	REF LINE PP-CC	93+70.00			RT		1														
LA	277	PLAINFIELD RD	901+50.00			CL		1														
LA	277	PLAINFIELD RD	901+86.00			CL		1														
LA	278	REED HARTMAN HWY	731+60.00			LT		1														
LA	278	REED HARTMAN HWY	731+60.00			RT		1														
LA	279	SR 126 ENTRANCE RAMP	601+25.00			RT		1														
NDL	279	SR 126 ENTRANCE RAMP	601+47.00	609+60.00	813	RT					813											
LA	279	SR 126 ENTRANCE RAMP	603+25.00			RT		1														
**100% LOCAL FUNDING SPLIT SUBTOTALS FROM THIS SHEET							0	0	0	0	0	0	0	0	0							
**100% LOCAL FUNDING SPLIT SUBTOTALS FROM SHEET 258							180	5	0	0	0	0	117	0	0							
**100% LOCAL FUNDING SPLIT SUBTOTALS FROM SHEET 259							0	0	0	0	0	0	0	0	0							
**100% LOCAL FUNDING SPLIT CARRIED TO GENERAL SUMMARY							180	5	0	0	0	0	117	0	0							
SUBTOTALS FROM THIS SHEET							230	15	0	69	813	0	202	0	0							
SUBTOTALS FROM SHEET 258							800	25	1	143	0	173	321	0	0							
SUBTOTALS FROM SHEET 259							940	33	2	225	0	160	0	4	21							
TOTALS CARRIED TO GENERAL SUMMARY							1970	73	3	437	813	333	523	4	21							

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PAVEMENT MARKING SUBSUMMARY

HAM-PLAINFIELD RD
ROUNDABOUTS

260
335

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REFERENCE NO.	SHEET NO.	LOCATION	STATION	SIDE	CODE	SIZE	630 GROUND MOUNTED SUPPORT, NO. 2 POST	630 GROUND MOUNTED SUPPORT, NO. 3 POST	630 GROUND MOUNTED SUPPORT, NO. 6 POST	630 SIGN POST REFLECTOR	630 OVERHEAD SIGN SUPPORT, TYPE TC-16.22, DESIGN 7	630 OVERHEAD SIGN SUPPORT, TYPE TC-16.21, DESIGN 8	630 OVERHEAD SIGN SUPPORT, TYPE TC-16.22, DESIGN 9	630 OVERHEAD SIGN SUPPORT, TYPE TC-16.22, DESIGN 13	630 SIGN HANGER ASSEMBLY, SPAN WIRE	630 SIGN SUPPORT ASSEMBLY, POLE MOUNTED	630 SIGN, FLAT SHEET	630 RIGID OVERHEAD SIGN SUPPORT FOUNDATION			NOTES
						W X H	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	SF	EACH			
	267	EX HUNT RD	798+55	RT	W2-6-36	36 X 36		14.74									9.00				**
	267	EX HUNT RD	799+10	LT	M2-H3	24 X 18			17 17								3.00				2 POST**
					M2-H3	24 X 12											2.00				
	267	EX HUNT RD	799+97	LT	R3-H8ba-30	30 X 30		13									6.25				**
	267	EX HUNT RD	800+30	RT	R4-7-24	24 X 30		13		1							5.00				**
	267	EX HUNT RD	800+78	LT	D1-1d-42	42 X 18											5.25				**
	267	EX HUNT RD	800+79	RT	R1-2-36	36 X 36	13.1			1							3.90				**
	267	EX HUNT RD	801+30	CL	R6-4-30	30 X 24	12.5										5.00				**
	267	EX HUNT RD	801+51	CL	R6-4-30	30 X 24	12.5										5.00				**
	267	EX HUNT RD	802+06	RT	D1-1d-42	42 X 18											5.25				**
	267	EX HUNT RD	802+17	LT	R1-2-36	36 X 36	13.1			1							3.90				**
	267	EX HUNT RD	804+01	LT	W2-6-36	36 X 36		14.74									9.00				**
	267	EX HUNT RD	804+34	LT	R1-1-30	30 X 30		13		1							6.25				**
	267	EX HUNT RD	804+40	CL	R6-2R-24	24 X 30	13										5.00				**
	267	KROGER ENTRANCE	5+20	LT	R6-4-30	30 X 24	12.5										5.00				**
	267	KROGER ENTRANCE	5+75	RT	D1-1d-78	78 X 18											9.75				2 POST**
	267	KROGER ENTRANCE	5+90	LT	R1-2-36	36 X 36	13.1			1							3.90				**
	267	KROGER ENTRANCE	5+92	RT	W11-2-36	36 X 36											9.00				**
					W16-7PR-30	30 X 18											3.75				**
	267	KROGER ENTRANCE	5+98	RT	W11-2-36	36 X 36											9.00				**
					W16-7PL-30	30 X 18											3.75				**
	267	KROGER ENTRANCE	6+12	LT	W11-2-36	36 X 36											9.00				**
					W16-7PR-30	30 X 18											3.75				**
	267	KROGER ENTRANCE	6+14	LT	W11-2-36	36 X 36											9.00				**
					W16-7PL-30	30 X 18											3.75				**
	267	KROGER ENTRANCE	6+54	LT	W2-6-36	36 X 36		14.74									9.00				**
	268	EX HUNT RD	805+94	LT	R3-H8bb-30	30 X 30		13									6.25				
	268	HUNT RD	500+00	LT	R3-7-30	30 X 30		13									6.25				
	268	HUNT RD	501+82	LT	R1-1-30	30 X 30		13		1							6.25				
	268	HUNT RD	501+88	CL	R6-2R-24	24 X 30	13										5.00				
	270	HUNT RD	503+13	RT	W2-6-36	36 X 36		14.74									9.00				
	270	HUNT RD	504+11	RT	R3-2-24	24 X 24	12.5										4.00				
	270	HUNT RD	504+46	RT	R1-1-30	30 X 30		13		1							6.25				
	270	HUNT RD	505+03	RT	W11-2-36	36 X 36											9.00				
					W16-7PL-30	30 X 18											3.75				
	270	HUNT RD	505+12	RT	W11-2-36	36 X 36											9.00				
					W16-7PR-30	30 X 18											3.75				
	270	HUNT RD	505+09	LT	W11-2-36	36 X 36											9.00				
					W16-7PL-30	30 X 18											3.75				
	270	HUNT RD	505+24	LT	W11-2-36	36 X 36											9.00				
					W16-7PR-30	30 X 18											3.75				
	270	HUNT RD	505+27	RT	R1-2-36	36 X 36	13.1			1							3.90				
	270	HUNT RD	505+47	LT	D1-1d-42	42 X 18											5.25				
	270	HUNT RD	505+89	LT	R6-4a-48	48 X 24		12.5									8.00				
	270	EX HUNT RD	813+11	LT	R6-4a-48	48 X 24		12.5									8.00				
	270	EX HUNT RD	814+52	LT	D1-1d-42	42 X 18											5.25				
	270	EX HUNT RD	814+70	LT	W11-2-36	36 X 36											9.00				
					W16-7PR-30	30 X 18											3.75				
	270	EX HUNT RD	814+72	RT	W11-2-36	36 X 36											9.00				
					W16-7PL-30	30 X 18											3.75				
	270	EX HUNT RD	814+73	LT	R1-2-36	36 X 36	13.1			1							3.90				
	270	EX HUNT RD	814+74	LT	R1-2-36	36 X 36	13.1			1							3.90				
**100% LOCAL FUNDING SPLIT CARRIED TO SHEET 264							89.8	83.2	17.0	5	0	0	0	0	0	0	150.5	0			
SUBTOTALS CARRIED TO SHEET 264							154.6	175	34	10	0	0	0	0	0	0	310.2	0			

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HAM-PLAINFIELD RD
ROUNDABOUTS

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REFERENCE NO.	SHEET NO.	LOCATION	STATION	SIDE	CODE	SIZE	630 GROUND MOUNTED SUPPORT, NO. 2 POST	630 GROUND MOUNTED SUPPORT, NO. 3 POST	630 GROUND MOUNTED SUPPORT, NO. 6 POST	630 SIGN POST REFLECTOR	630 OVERHEAD SIGN SUPPORT, TYPE TC-16.22, DESIGN 7	630 OVERHEAD SIGN SUPPORT, TYPE TC-16.21, DESIGN 8	630 OVERHEAD SIGN SUPPORT, TYPE TC-16.22, DESIGN 9	630 OVERHEAD SIGN SUPPORT, TYPE TC-16.22, DESIGN 13	630 SIGN HANGER ASSEMBLY, SPAN WIRE	630 SIGN SUPPORT ASSEMBLY, POLE MOUNTED	630 SIGN, FLAT SHEET	630 RIGID OVERHEAD SIGN SUPPORT FOUNDATION			NOTES
						W X H	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	SF	EACH			
	270	EX HUNT RD	814+84	LT	W11-2-36	36 X 36											9.00				
					W16-7PR-30	30 X 18											3.75				
	270	EX HUNT RD	814+99	LT	W11-2-36	36 X 36											9.00				
					W16-7PL-30	30 X 18											3.75				
	270	EX HUNT RD	815+05	LT	W11-2-36	36 X 36											9.00				
					W16-7PR-30	30 X 18											3.75				
	270	EX HUNT RD	815+14	LT	W11-2-36	36 X 36											9.00				
					W16-7PL-30	30 X 18											3.75				
	270	PLAINFIELD RD	713+11	RT	R4-7-24	24 X 30		13		1							5.00				
	270	PLAINFIELD RD	713+90	RT	W11-2-36	36 X 36											9.00				
					W16-7PL-30	30 X 18											3.75				
	270	PLAINFIELD RD	714+01	CL	W11-2-36	36 X 36											9.00				
					W16-7PR-30	30 X 18											3.75				
	270	PLAINFIELD RD	714+07	LT	W11-2-36	36 X 36											9.00				
					W16-7PR-30	30 X 18											3.75				
	270	PLAINFIELD RD	714+18	LT	W11-2-36	36 X 36											9.00				
					W16-7PL-30	30 X 18											3.75				
	270	PLAINFIELD RD	714+35	LT	D1-1d-60	60 X 18	12 12										7.50				2 POSTS
	270	PLAINFIELD RD	714+35	RT	R1-2-36	36 X 36	13.1			1							3.90				
	270	PLAINFIELD RD	714+37	RT	R1-2-36	36 X 36	13.1			1							3.90				
	270	PLAINFIELD RD	714+80	RT	R6-4a-48	48 X 24		12.5									8.00				
	270	PLAINFIELD RD	715+41	CL	R6-4a-48	48 X 24		12.5									8.00				
	270	PLAINFIELD RD	715+90	LT	R1-2-36	36 X 36	13.1			1							3.90				
	270	PLAINFIELD RD	715+92	RT	D1-1d-60	60 X 18	12 12										7.50				2 POSTS
	270	PLAINFIELD RD	715+94	CL	R1-2-36	36 X 36	13.1			1							3.90				
	270	PLAINFIELD RD	716+09	RT	W11-2-36	36 X 36											9.00				
					W16-7PR-30	30 X 18											3.75				
	270	PLAINFIELD RD	716+20	RT	W11-2-36	36 X 36											9.00				
					W16-7PR-30	30 X 18											3.75				
	270	PLAINFIELD RD	716+21	RT	W11-2-36	36 X 36											9.00				
					W16-7PL-30	30 X 18											3.75				
	270	PLAINFIELD RD	716+33	LT	W11-2-36	36 X 36											9.00				
					W12-1-24	24 X 24	13.33										4.00				
	270	PLAINFIELD RD	716+43	LT	W11-2-36	36 X 36											9.00				
					W16-7PL-30	30 X 18											3.75				
	271	EX HUNT RD	815+85	RT	R2-1-30	30 X 36		13.5									7.50				
	271	EX HUNT RD	815+93	LT	W12-1-24	24 X 24	13.33										4.00				
	271	EX HUNT RD	816+98	LT	R3-6L-30	30 X 36							1				7.50	1			
					R3-5R-30	30 X 36											7.50				
	271	EX HUNT RD	817+59	CL	R4-7-24	24 X 30		13		1							5.00				
	271	EX HUNT RD	817+81	RT	R3-H8bh-30	30 X 30		13									6.25				
	271	EX HUNT RD	818+47	LT	R3-7-30	30 X 30		13									6.25				
	271	EX HUNT RD	819+44	LT	W2-6-36	36 X 36		14.74									9.00				
	272	PLAINFIELD RD	709+44	LT	R3-H8dd-54	54 X 30		13									11.25				
	272	PLAINFIELD RD	709+63	LT	R10-6-24	24 X 30	13										5.00				
	272	PLAINFIELD RD	711+65	RT	R3-6R-30	30 X 36									1		7.50				
	272	PLAINFIELD RD	711+69	RT	R3-6L-30	30 X 36									1		7.50				
	272	PLAINFIELD RD	711+74	LT	R3-5L-30	30 X 36									1		7.50				
	272	PLAINFIELD RD	712+01	RT	W2-6-36	36 X 36		14.74									9.00				
	273	PLAINFIELD RD	717+40	RT	R2-1-30	30 X 36		13.5									7.50				
	273	PLAINFIELD RD	718+20	LT	R3-6L-30	30 X 36											7.50				
					R3-5a-30	30 X 36								1			7.50	1			
					R3-5R-30	30 X 36											7.50				
	**100% LOCAL FUNDING SPLIT CARRIED TO SHEET 264						0.0	0.0	0.0	0	0	0	0	0	0	0	0.0	0			
	SUBTOTALS CARRIED TO SHEET 264						116.1	146.5	0.0	6	0	0	1	1	3	0	348.4	2			

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HAM-PLAINFIELD RD ROUNDABOUTS

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REFERENCE NO.	SHEET NO.	LOCATION	STATION	SIDE	CODE	SIZE	630 GROUND MOUNTED SUPPORT, NO. 2 POST	630 GROUND MOUNTED SUPPORT, NO. 3 POST	630 GROUND MOUNTED SUPPORT, NO. 6 POST	630 SIGN POST REFLECTOR	630 OVERHEAD SIGN SUPPORT, TYPE TC-16.22, DESIGN 7	630 OVERHEAD SIGN SUPPORT, TYPE TC-16.21, DESIGN 8	630 OVERHEAD SIGN SUPPORT, TYPE TC-16.22, DESIGN 9	630 OVERHEAD SIGN SUPPORT, TYPE TC-16.22, DESIGN 13	630 SIGN HANGER ASSEMBLY, SPAN WIRE	630 SIGN SUPPORT ASSEMBLY, POLE MOUNTED	630 SIGN, FLAT SHEET	630 RIGID OVERHEAD SIGN SUPPORT FOUNDATION			NOTES
						W X H	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	SF	EACH			
	273	PLAINFIELD RD	718+76	CL	R4-7-24	24 X 30		13		1							5.00				
	273	PLAINFIELD RD	719+15	RT	R3-H8cg-48	48 X 30		13									10.00				
	273	PLAINFIELD RD	719+50	LT	I-3-24	24 X 18											3.00				
					M3-2-24	24 X 12			17								2.00				
					M1-5-30-3	30 X 24											5.00				
					M6-3-21	21 X 15											2.19				
	273	PLAINFIELD RD	719+50	LT	I-3-24	24 X 18											3.00				
					M3-4-24	24 X 12			17								2.00				
					M1-5-30-3	30 X 24											5.00				
					M6-1-21	21 X 15											2.19				
	273	PLAINFIELD RD	720+80	LT	W2-6-36	36 X 36		14.74									9.00				
	274	PLAINFIELD RD	723+50	LT	R3-H8cg-48	48 X 30		13									10.00				
	274	PLAINFIELD RD	723+73	RT	R4-7-24	24 X 30		13		1							5.00				
	274	PLAINFIELD RD	724+00	LT	I-3-24	24 X 18											3.00				
					M3-2-24	24 X 12			17								2.00				
					M1-5-30-3	30 X 24											5.00				
					M6-3-21	21 X 15											2.19				
	274	PLAINFIELD RD	724+00	LT	I-3-24	24 X 18											3.00				
					M3-4-24	24 X 12			17								2.00				
					M1-5-30-3	30 X 24											5.00				
					M6-1-21	21 X 15											2.19				
	274	PLAINFIELD RD	724+83	RT	W2-6-36	36 X 36		14.74									9.00				
	276	PLAINFIELD RD	727+50	RT	R3-6L-30	30 X 36					1						7.50	1			
					R3-6R-30	30 X 36											7.50				
	276	PLAINFIELD RD	728+46	RT	W11-2-36	36 X 36											9.00				
					W16-7PL-30	30 X 18											3.75				
	276	PLAINFIELD RD	728+59	RT	W11-2-36	36 X 36											9.00				
					W16-7PR-30	30 X 18											3.75				
	276	PLAINFIELD RD	728+57	LT	W11-2-36	36 X 36											9.00				
					W16-7PL-30	30 X 18											3.75				
	276	PLAINFIELD RD	728+69	LT	W11-2-36	36 X 36											9.00				
					W16-7PR-30	30 X 18											3.75				
	276	PLAINFIELD RD	728+86	LT	D1-1d-60	60 X 18	12 12										7.50				2 POSTS
	276	PLAINFIELD RD	728+86	RT	R1-2-36	36 X 36	13.1			1							9.00				
	276	PLAINFIELD RD	728+88	RT	R1-2-36	36 X 36	13.1			1							9.00				
	276	PLAINFIELD RD	729+32	CL	R6-4a-48	48 X 24		12.5									8.00				
	276	PLAINFIELD RD	902+60	RT	R3-5R-30	30 X 36						1					7.50	1			
					R3-6L-30	30 X 36											7.50				
	276	PLAINFIELD RD	902+73	LT	R4-7-24	24 X 30		13									5.00				
	276	PLAINFIELD RD	903+44	RT	W11-2-36	36 X 36											9.00				
					W16-7PL-30	30 X 18											3.75				
	276	PLAINFIELD RD	903+50	LT	W11-2-36	36 X 36											9.00				
					W16-7PR-30	30 X 18											3.75				
	276	PLAINFIELD RD	903+51	LT	W11-2-36	36 X 36											9.00				
					W16-7PL-30	30 X 18											3.75				
	276	PLAINFIELD RD	903+60	LT	W11-2-36	36 X 36											9.00				
					W16-7PR-30	30 X 18											3.75				
	276	PLAINFIELD RD	903+74	RT	R1-2-36	36 X 36	13.1										9.00				
	276	PLAINFIELD RD	903+75	LT	R1-2-36	36 X 36	13.1										9.00				
	276	PLAINFIELD RD	903+77	LT	D1-1d-60	60 X 18	12 12										7.50				2 POSTS
	276	PLAINFIELD RD	904+30	CL	R6-4a-48	48 X 24		12.5									8.00				
**100% LOCAL FUNDING SPLIT CARRIED TO SHEET 264							0.0	0.0	0.0	0	0	0	0	0	0	0	0.0	0			
SUBTOTALS CARRIED TO SHEET 264							100.4	119.5	68	4	1	1	0	0	0	0	300.8	2			

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HAM-PLAINFIELD RD ROUNDABOUTS

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REFERENCE NO.	SHEET NO.	LOCATION	STATION	SIDE	CODE	SIZE	630 GROUND MOUNTED SUPPORT, NO. 2 POST	630 GROUND MOUNTED SUPPORT, NO. 3 POST	630 GROUND MOUNTED SUPPORT, NO. 6 POST	630 SIGN POST REFLECTOR	630 OVERHEAD SIGN SUPPORT, TYPE TC-16.22, DESIGN 7	630 OVERHEAD SIGN SUPPORT, TYPE TC-16.21, DESIGN 8	630 OVERHEAD SIGN SUPPORT, TYPE TC-16.22, DESIGN 9	630 OVERHEAD SIGN SUPPORT, TYPE TC-16.22, DESIGN 13	630 SIGN HANGER ASSEMBLY, SPAN WIRE	630 SIGN SUPPORT ASSEMBLY, POLE MOUNTED	630 SIGN, FLAT SHEET	630 RIGID OVERHEAD SIGN SUPPORT FOUNDATION			NOTES
						W X H	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	SF	EACH			
	276	REED HARTMAN HWY	729+89	CL	R6-4a-48	48 X 24		12.5									8.00				
	276	REED HARTMAN HWY	729+31	RT	D1-1d-78	78 X 18	12 12										9.75				2 POSTS
	276	REED HARTMAN HWY	729+33	LT	R1-2-36	36 X 36	13.1			1							9.00				
	276	REED HARTMAN HWY	729+41	LT	R1-2-36	36 X 36	13.1			1							9.00				
	276	REED HARTMAN HWY	730+48	RT	W11-2-36	36 X 36											9.00				
					W16-7PR-30	30 X 18											3.75				
	276	REED HARTMAN HWY	730+59	RT	W11-2-36	36 X 36											9.00				
					W16-7PL-30	30 X 18											3.75				
	276	REED HARTMAN HWY	730+63	RT	W11-2-36	36 X 36											9.00				
					W16-7PR-30	30 X 18											3.75				
	276	REED HARTMAN HWY	730+71	LT	W11-2-36	36 X 36											9.00				
					W16-7PL-30	30 X 18											3.75				
	276	PEPPERMILL LN	950+32	CL	R6-4a-48	48 X 24		12.5									8.00				
	276	PEPPERMILL LN	950+87	RT	D1-1d-60	60 X 18	12 12										7.50				2 POSTS
	276	PEPPERMILL LN	950+94	LT	R1-2-36	36 X 36	13.1			1							9.00				
	276	PEPPERMILL LN	951+01	RT	W11-2-36	36 X 36											9.00				
					W16-7PR-30	30 X 18											3.75				
	276	PEPPERMILL LN	951+10	RT	W11-2-36	36 X 36											9.00				
					W16-7PL-30	30 X 18											3.75				
	276	PEPPERMILL LN	951+12	RT	W11-2-36	36 X 36											9.00				
					W16-7PR-30	30 X 18											3.75				
	276	PEPPERMILL LN	851+19	LT	W11-2-36	36 X 36											9.00				
					W16-7PL-30	30 X 18											3.75				
	276	PEPPERMILL LN	952+01	LT	W2-6-36	36 X 36		14.74									9.00				
	276	PEPPERMILL LN	952+36	RT	R2-1-30	30 X 36		13.5									7.50				
	277	PLAINFIELD RD	900+25	LT	R3-H8ba-30	30 X 30		13									6.25				
	277	PLAINFIELD RD	900+76	LT	W2-6-36	36 X 36		14.74									9.00				
	277	PLAINFIELD RD	900+94	RT	R3-H8ba-30	30 X 30		13									6.25				
	277	PLAINFIELD RD	900+42	LT	R2-1-30	30 X 36		13.5									7.50				
	278	REED HARTMAN HWY	731+50	RT	R3-9cP-30	30 X 12											2.50				
					R2-1-30	30 X 36											7.50				
	278	REED HARTMAN HWY	731+68	LT	R4-7-24	24 X 30		13									5.00				
	278	REED HARTMAN HWY	731+70	LT	R3-6L-30	36 X 30					1						7.50	1			
					R3-6R-30	36 X 30											7.50				
	278	REED HARTMAN HWY	733+77	LT	W2-6-36	36 X 36		14.74									9.00				
	279	SR 126 ENTRANCE RAMP	601+07	RT	W4-2R-36	36 X 36		14.74									9.00				
**100% LOCAL FUNDING SPLIT SUBTOTALS FROM THIS SHEET							0	0	0	0	0	0	0	0	0	0	0	0			
**100% LOCAL FUNDING SPLIT SUBTOTALS FROM SHEET 261							89.8	83.22	17	5	0	0	0	0	0	0	150.5	0			
**100% LOCAL FUNDING SPLIT SUBTOTALS FROM SHEET 262							0	0	0	0	0	0	0	0	0	0	0	0			
**100% LOCAL FUNDING SPLIT SUBTOTALS FROM SHEET 263							0	0	0	0	0	0	0	0	0	0	0	0			
**100% LOCAL FUNDING SPLIT CARRIED TO GENERAL SUMMARY							89.8	83.2	17.0	5	0	0	0	0	0	0	150.5	0			
SUBTOTALS FROM THIS SHEET							87.3	150	0	3	1	0	0	0	0	0	255.8	1			
SUBTOTALS FROM SHEET 261							154.6	175	34	10	0	0	0	0	0	0	310.2	0			
SUBTOTALS FROM SHEET 262							116.1	146.5	0	6	0	0	1	1	3	0	348.4	2			
SUBTOTALS FROM SHEET 263							100.4	119.5	68	4	1	1	0	0	0	0	300.8	2			
TOTALS CARRIED TO GENERAL SUMMARY							458.4	591	102	23	2	1	1	1	3	0	1215.2	5			

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REFERENCE NO.	SHEET NO.	LOCATION	STATION	SIDE	630 REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL EACH	630 REMOVAL OF GROUND MOUNTED SIGN AND REERECTION EACH	630 REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL EACH	630 REMOVAL OF GROUND MOUNTED POST SUPPORT AND REERECTION EACH	630 REMOVAL OF OVERHEAD MOUNTED SIGN AND DISPOSAL EACH	630 REMOVAL OF POLE MOUNTED SIGN AND DISPOSAL EACH	630 REMOVAL OF POLE MOUNTED SIGN AND REERECTION EACH	630 REMOVAL OF OVERHEAD SIGN SUPPORT AND DISPOSAL EACH										NOTES
	267	EX HUNT RD	800+90	LT						1												**
	267	EX HUNT RD	802+13	LT	1		1															**
	267	EX HUNT RD	803+47	LT	2		2															**
	267	EX HUNT RD	804+27	LT	1		1															**
	267	KROGER ENTRANCE	5+85	LT	1		1															**
	268	EX HUNT RD	806+47	RT	1		1															
	268	EX HUNT RD	807+66	LT	1		1															
	268	EX HUNT RD	810+29	RT						1												
	268	HUNT RD	501+36	LT	1		1															
	270	EX HUNT RD	810+63	LT						1												
	270	EX HUNT RD	810+74	RT						1												
	270	EX HUNT RD	811+11	RT	1		1															
	270	EX HUNT RD	811+49	LT	1		1															
	270	EX HUNT RD	812+87	RT						1												
	270	EX HUNT RD	813+06	CL					1													
	270	EX HUNT RD	813+27	LT					2	2		1										
	270	EX HUNT RD	814+12	CL					1													
	270	EX HUNT RD	814+22	LT					1													
	270	EX HUNT RD	814+52	LT	3		1															
	270	EX HUNT RD	815+13	LT	1		1															
	270	PLAINFIELD RD	714+09	CL					1													
	270	PLAINFIELD RD	714+30	RT						2												
	270	PLAINFIELD RD	714+97	LT						5												
	270	PLAINFIELD RD	715+05	CL					1													
	270	PLAINFIELD RD	715+17	RT						5												
	270	PLAINFIELD RD	715+25	RT						1												
	271	EX HUNT RD	815+76	RT	2		1															
	271	EX HUNT RD	817+24	LT	1		2															
	271	EX HUNT RD	817+95	LT	1		1															
	271	EX HUNT RD	818+55	LT						2												
	272	PLAINFIELD RD	708+36	LT					1													
	272	PLAINFIELD RD	709+11	RT						3												
	272	PLAINFIELD RD	709+20	RT					1													
	272	PLAINFIELD RD	709+31	RT						1												
	272	PLAINFIELD RD	709+40	LT	1		1															
	272	PLAINFIELD RD	709+64	LT	1		1															
	272	PLAINFIELD RD	711+65	RT					1													
	272	PLAINFIELD RD	711+69	RT					1													
	272	PLAINFIELD RD	711+71	RT					1													
	272	PLAINFIELD RD	711+91	RT						1												
	272	SR 126 EXIT RAMP	507+70	LT/RT					3													
	273	PLAINFIELD RD	716+67	LT	1		1															
	273	PLAINFIELD RD	716+79	RT	2		1															
	273	PLAINFIELD RD	717+37	LT						1												
	273	PLAINFIELD RD	717+37	LT/RT					4													
	273	PLAINFIELD RD	717+54	LT	1		1															
	273	PLAINFIELD RD	719+25	LT	1		1															
	273	PLAINFIELD RD	719+69	LT	2		1															
	273	PLAINFIELD RD	720+17	LT	1		1															
	273	PLAINFIELD RD	720+08	RT					1													
	273	PLAINFIELD RD	721+84	RT	2		1															
**100% LOCAL FUNDING SPLIT CARRIED TO SHEET 266					5	0	5	0	0	1	0	0										
SUBTOTALS CARRIED TO SHEET 266					30	0	25	0	20	28	0	1										

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HAM-PLAINFIELD RD ROUNDABOUTS

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REFERENCE NO.	SHEET NO.	LOCATION	STATION	SIDE	630 REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL EACH	630 REMOVAL OF GROUND MOUNTED SIGN AND REERECTION EACH	630 REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL EACH	630 REMOVAL OF GROUND MOUNTED POST SUPPORT AND REERECTION EACH	630 REMOVAL OF OVERHEAD MOUNTED SIGN AND DISPOSAL EACH	630 REMOVAL OF POLE MOUNTED SIGN AND DISPOSAL EACH	630 REMOVAL OF POLE MOUNTED SIGN AND REERECTION EACH	630 REMOVAL OF OVERHEAD SIGN SUPPORT AND DISPOSAL EACH	NOTES
	274	PLAINFIELD RD	722+00	LT						1			
	274	PLAINFIELD RD	722+02	RT					2				
	274	PLAINFIELD RD	722+03	LT						1			
	274	PLAINFIELD RD	722+03	RT						1			
	274	PLAINFIELD RD	722+37	LT	2		1						
	274	PLAINFIELD RD	723+37	RT	2		1						
	274	PLAINFIELD RD	724+00	LT					1			1	
	274	PLAINFIELD RD	724+74	RT	2		1						
	274	PLAINFIELD RD	725+94	LT	1		1						
	274	PLAINFIELD RD	727+08	RT						1			
	274	PLAINFIELD RD	727+36	RT		4		2					
	276	PLAINFIELD RD	727+57	LT	1		1						
	276	PLAINFIELD RD	728+89	RT						1			
	276	PLAINFIELD RD	729+08	RT						4			
	276	PLAINFIELD RD	729+30	RT					4				
	276	PLAINFIELD RD	729+31	LT						5			
	276	PLAINFIELD RD	729+33	LT	1		2						
	276	PLAINFIELD RD	729+43	LT						1			
	276	PLAINFIELD RD	902+58	RT	1		1						
	276	PLAINFIELD RD	902+76	RT						1			
	276	PLAINFIELD RD	902+78	RT						2			
	276	PLAINFIELD RD	903+53	RT	2		1						
	276	PLAINFIELD RD	904+00	LT						2			
	276	PLAINFIELD RD	904+02	LT						6			
	276	PLAINFIELD RD	904+07	RT							1	1	
	276	PLAINFIELD RD	904+24	CL					2				
	276	PEPPERMILL LN	950+73	LT	2		1						
	276	PEPPERMILL LN	951+04	RT	2		1						
	276	PEPPERMILL LN	952+33	RT	2		1						
	276	REED HARTMAN HWY	729+88	RT						5			
	276	REED HARTMAN HWY	729+90	RT						1			
	276	REED HARTMAN HWY	730+23	RT	1		1						
	276	REED HARTMAN HWY	730+74	LT	2		1						
	277	PLAINFIELD RD	900+27	LT	1		1						
	277	PLAINFIELD RD	901+65	RT						2			
	277	PLAINFIELD RD	901+96	RT	2		1						
	277	PLAINFIELD RD	902+46	LT	1		1						
	278	REED HARTMAN HWY	731+48	RT	2		1						
	278	REED HARTMAN HWY	732+14	LT	1		1						
	279	SR 126 ENTRANCE RAMP	604+06	RT		1		1					
**100% LOCAL FUNDING SPLIT SUBTOTALS FROM THIS SHEET					0	0	0	0	0	0	0	0	
**100% LOCAL FUNDING SPLIT SUBTOTALS FROM SHEET 265					5	0	5	0	0	1	0	0	
**100% LOCAL FUNDING SPLIT CARRIED TO GENERAL SUMMARY					5	0	5	0	0	1	0	0	
SUBTOTALS FROM THIS SHEET					28	5	19	3	9	34	1	2	
SUBTOTALS FROM SHEET 265					30	0	25	0	20	28	0	1	
TOTALS CARRIED TO GENERAL SUMMARY					58	5	44	3	29	62	1	3	

CALCULATED CML
CHECKED JS

SIGNING SUBSUMMARY

HAM-PLAINFIELD RD ROUNDABOUTS

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LEGEND

PROPOSED SIGN	EXISTING SIGN TO REMAIN
EXISTING SIGN TO BE REMOVED	YIELD LINE LAYOUT
CROSSWALK LAYOUT	

CL	ITEM 644 - CENTER LINE, DOUBLE YELLOW LINE; ONE BROKEN AND ONE SOLID	DBL	ITEM 644 - CENTER LINE, DOUBLE YELLOW LINE, 4"	DLE	ITEM 644- DOTTED LINE EXTENSION, WHITE 4" (2' LONG, 6' GAP)
YE	ITEM 644 - YELLOW EDGE LINE, 4"	DBL*	ITEM 646 - CENTER LINE, DOUBLE YELLOW LINE, 4"	DLE*	ITEM 646- DOTTED LINE EXTENSION, WHITE 4" (2' LONG, 6' GAP)
YEW	ITEM 644 - YELLOW EDGE LINE, 6"	SP	ITEM 644 - STOP LINE, WHITE 24"	YTL	ITEM 644 - YIELD TRANSVERSE LINE, 6"
CW	ITEM 644 - CROSSWALK, WHITE LINE 12"	SP*	ITEM 646 - STOP LINE, WHITE 24"	YTI	ITEM 644 - TRAFFIC ISLAND, YELLOW
YL	ITEM 644 - YIELD LINE, SHARK TOOTH	LL	ITEM 644 - LANE LINE, WHITE 4"		
EW	ITEM 644 - WHITE EDGE LINE, 4"	LL*	ITEM 646 - LANE LINE, WHITE 4"		
EWW	ITEM 644 - WHITE EDGE LINE, 6"	LLW	ITEM 644 - LANE LINE, WHITE 6"		
LA	ITEM 644 - LANE ARROW	DL	ITEM 644 - DOTTED LINE, WHITE 12" (3' LONG, 3' GAP)		
LA*	ITEM 646 - LANE ARROW	DTL	ITEM 644 - DOTTED LINE, WHITE 8" (3' LONG, 3' GAP)		
WP	ITEM 644 - WORD MARKING ON PAVEMENT	LLD	ITEM 644 - DOTTED LANE LINE, WHITE 4" (3' LONG, 9' GAP)		
CH	ITEM 644 - CHANNELIZING LINE, WHITE 12"	LLD*	ITEM 646 - DOTTED LANE LINE, WHITE 4" (3' LONG, 9' GAP)		
CHW	ITEM 644 - CHANNELIZING LINE, WHITE 8"	WDL	ITEM 646 - DOTTED LANE LINE, WHITE 8" (3' LONG, 9' GAP)		
CHW*	ITEM 646 - CHANNELIZING LINE, WHITE 8"	NDL	ITEM 646 - DOTTED LANE LINE, WHITE 6" (3' LONG, 9' GAP)		

Hunt Rd — D1-1d-42 (1 POST)

Business Entrance — D1-1d-78 (2 POSTS)

A

B

+00 STATION REFERENCE TO ℄ CONST EXIST HUNT RD

+00# STATION REFERENCE TO ℄ CONST KROGER ENTRANCE

+00⊗ STATION REFERENCE TO ℄ REF LINE HK-CC

SEE SHEETS 298 - 306 FOR RRFB DETAILS.

℄ CONST KROGER ENTRANCE

℄ CONST EXIST HUNT RD

℄ REF LINE HK-CC

MATCH LINE - STA. 799+00.00 SEE ABOVE

MATCH LINE - STA 804+50.00 SEE SHEET 268

Ronald Reagan Hwy

WEST 126

EXISTING (TO REMAIN)

HORIZONTAL SCALE IN FEET

CALCULATED CML

CHECKED JS

TRAFFIC CONTROL PLAN - HUNT RD

HAM-PLAINFIELD RD ROUNDABOUTS

STA. 798+50.00 TO STA. 804+50.00

267
335

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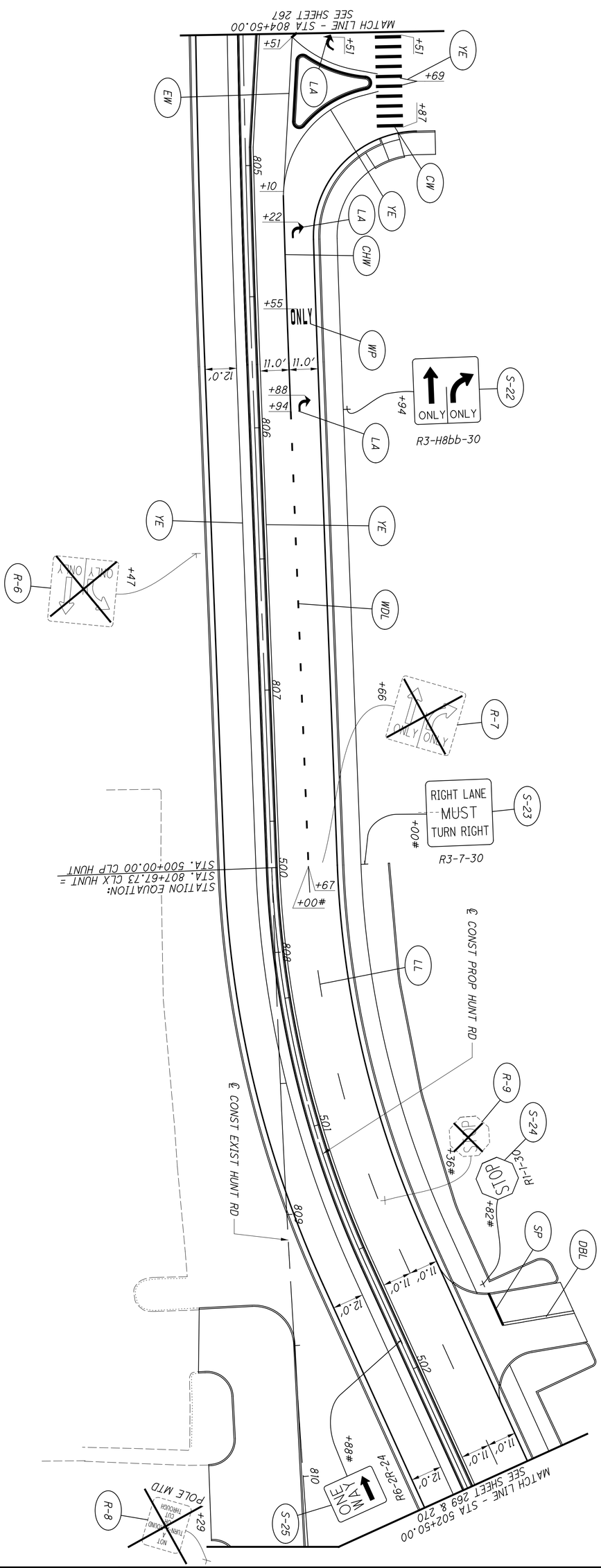

+00 STATION REFERENCE TO ℄ CONST EXIST HUNT RD
+00# STATION REFERENCE TO ℄ CONST PROP HUNT RD

FOR LEGEND SEE SHEET 267

268 / 335	HAM-PLAINFIELD RD ROUNDABOUTS	TRAFFIC CONTROL PLAN - HUNT RD STA. 804+50.00 TO STA. 502+50.00	CALCULATED CML / CHECKED JS	0 10 20 40 HORIZONTAL SCALE IN FEET

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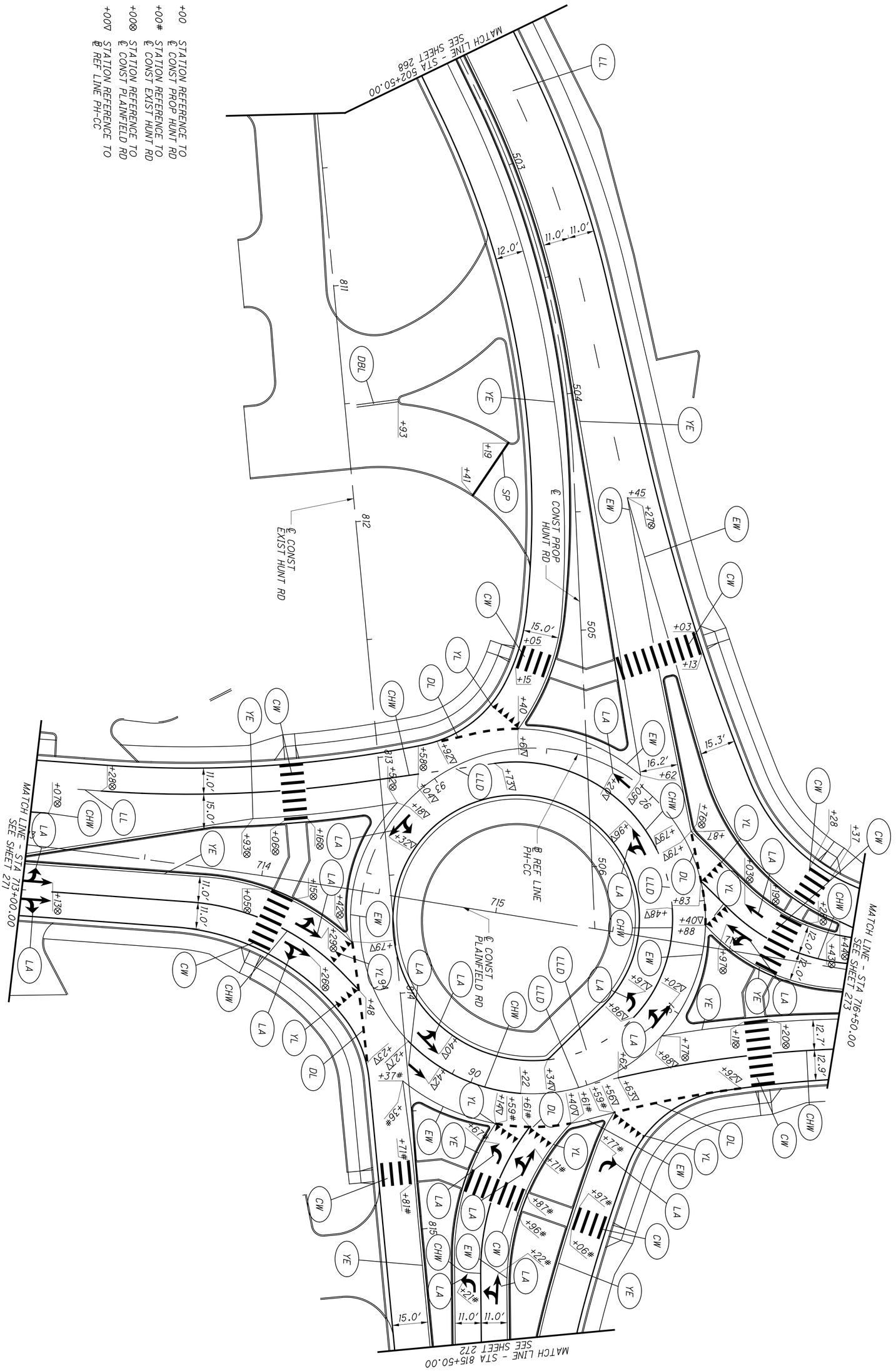

FOR LEGEND SEE SHEET 267

269 / 335	HAM-PLAINFIELD RD ROUNDABOUTS	TRAFFIC CONTROL PLAN - HUNT RD STA. 502+50.00 TO STA. 815+50.00	CALCULATED CML / CHECKED JS	0 20 / 10 40 HORIZONTAL SCALE IN FEET

TRAFFIC CONTROL PLAN - HUNT RD
STA. 502+50.00 TO STA. 815+50.00

HAM-PLAINFIELD RD ROUNDABOUTS

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CML
CHECKED JS

MATCH LINE - STA 502+50.00 SEE SHEET 268

MATCH LINE - STA 716+50.00 SEE SHEET 273

MATCH LINE - STA 815+50.00 SEE SHEET 271

MATCH LINE - STA 713+00.00 SEE SHEET 272

℄ CONST PROP HUNT RD

℄ CONST EXIST HUNT RD

℄ CONST PLAINFIELD RD

HUNT RD

TO REED HARTMAN HWY

PLAINFIELD RD

REAGAN Hwy

WEST 126

CANTILEVERED SIGN

SPAN WIRE MOUNTED

POLE MTD

POLE MOUNTED

W11-2-36 RRFB W12-1-36

W2-6-36

R3-2-24

R1-1-30

STOP

ONLY

SPEED

Ronald Reagan Hwy

WEST 126

M2-H3-48

R4-7-24

+00 STATION REFERENCE TO ℄ CONST PROP HUNT RD

+00# STATION REFERENCE TO ℄ CONST EXIST HUNT RD

+00⊗ STATION REFERENCE TO ℄ CONST PLAINFIELD RD

SEE SHEETS 298 - 306 FOR RRFB DETAILS.

FOR LEGEND SEE SHEET 267

R6-4a-48 (A)

W11-2-36 RRFB W16-7PL-30 (B)

W11-2-36 RRFB W16-7PR-30 (C)

R1-2-36 (D)

D1-1d-60 (2 POSTS) (E)

D1-1d-42 (1 POST) (F)

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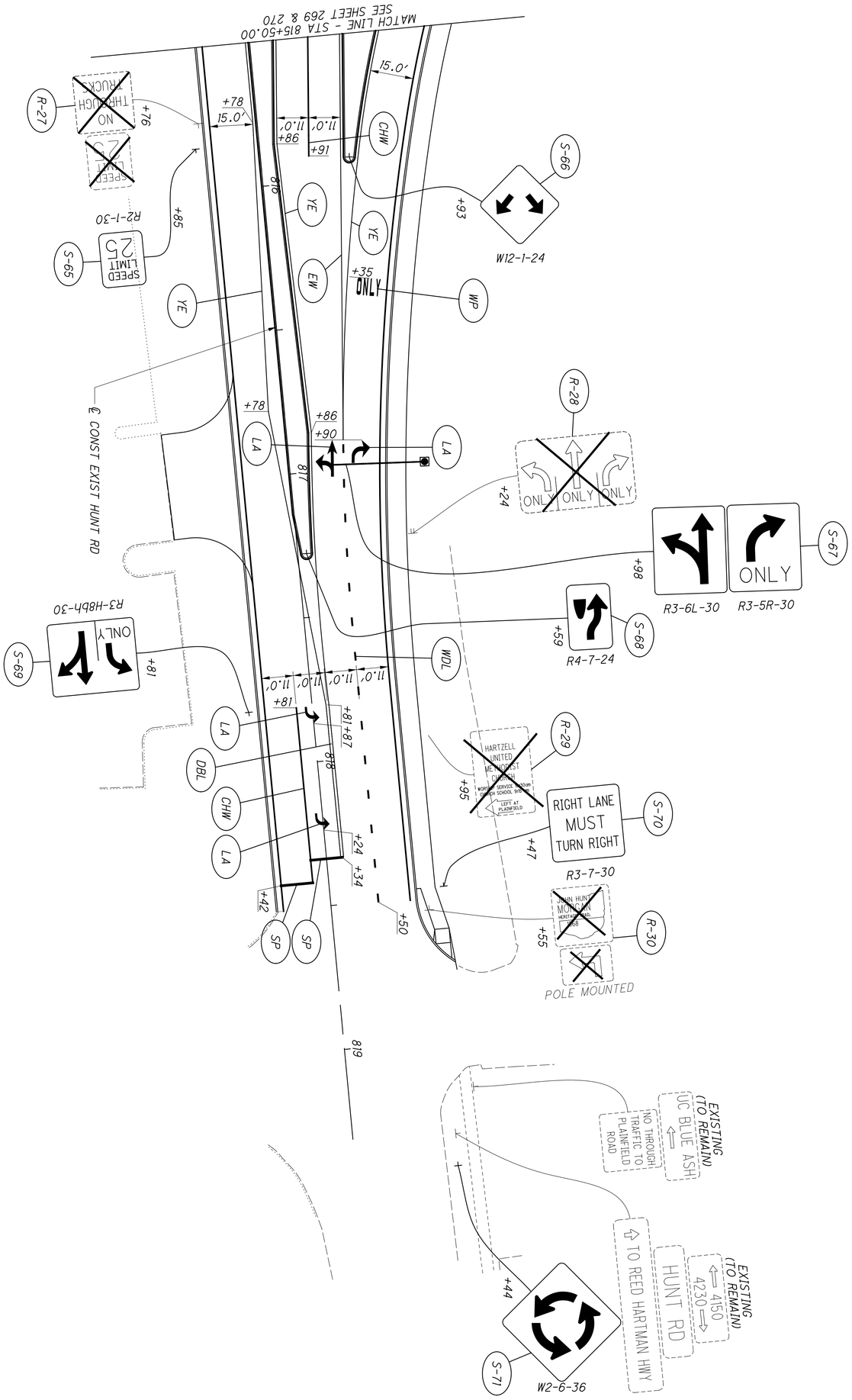


FOR LEGEND SEE SHEET 267

271
335

HAM-PLAINFIELD RD ROUNDABOUTS

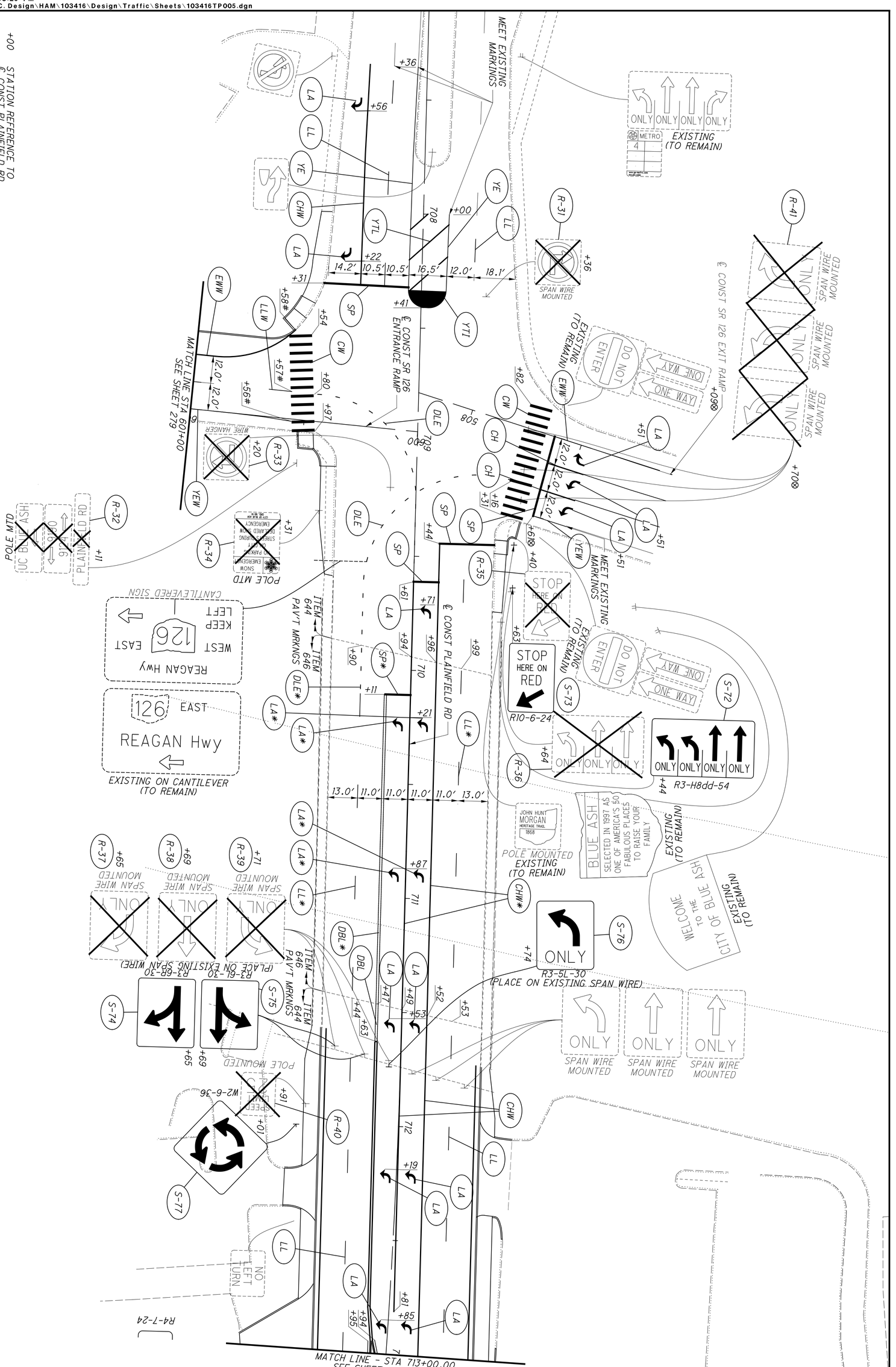
TRAFFIC CONTROL PLAN - HUNT RD
STA. 815+50.00 TO STA. 818+50.00

CALCULATED CML
CHECKED JS

0 10 20 40
HORIZONTAL SCALE IN FEET

N

+00 STATION REFERENCE TO ℄ CONST PLAINFIELD RD
+00# STATION REFERENCE TO ℄ CONST SR 126 ENTRANCE RAMP
+00@ STATION REFERENCE TO ℄ CONST SR 126 EXIT RAMP



FOR LEGEND SEE SHEET 267

272
335

HAM-PLAINFIELD RD ROUNDABOUTS

TRAFFIC CONTROL PLAN - PLAINFIELD RD
STA. 708+00.00 TO STA. 713+00.00

CALCULATED CML
CHECKED JS
HORIZONTAL SCALE IN FEET
0 20
10 40
N

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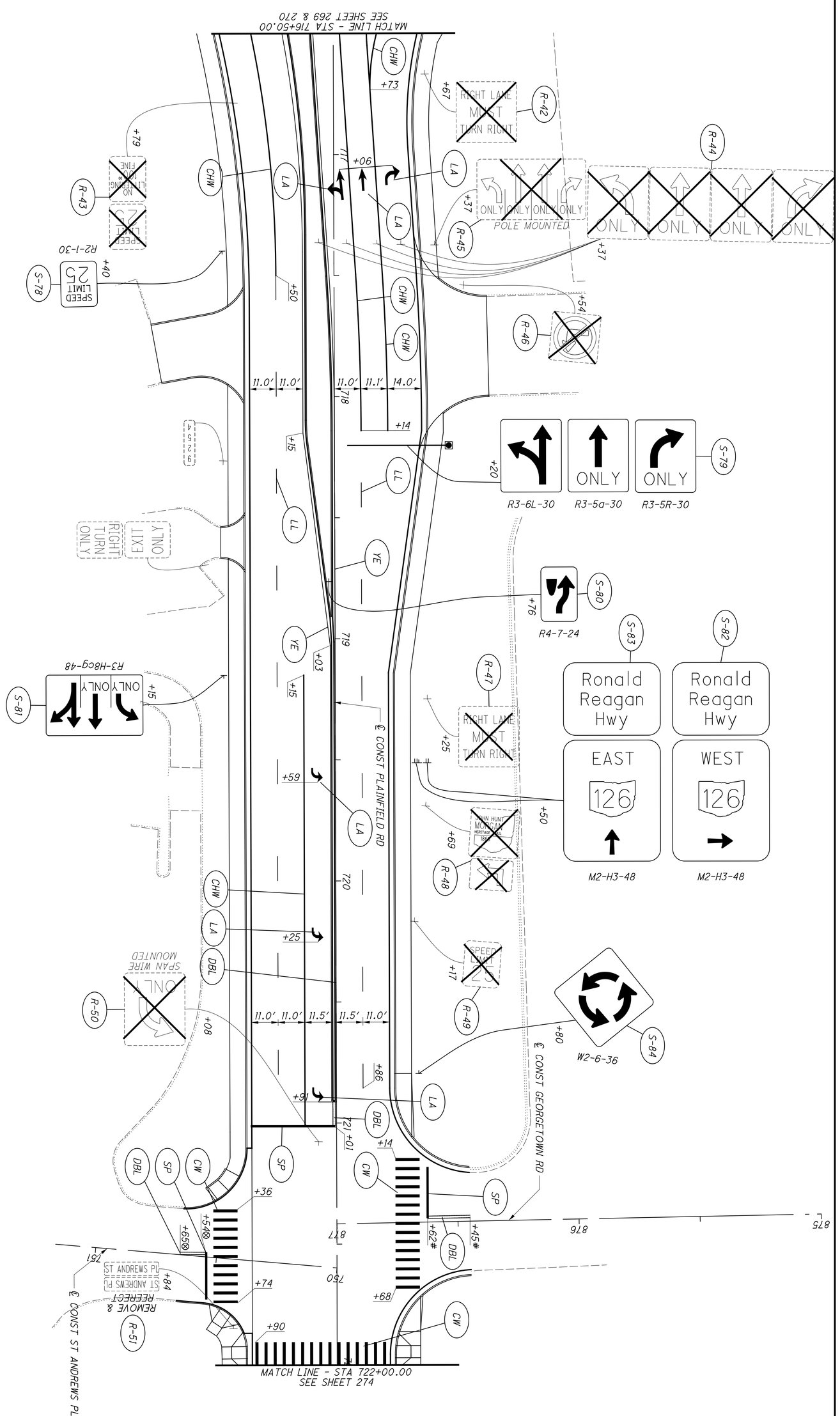


+00 STATION REFERENCE TO ℄ CONST PROP HUNT RD
+00# STATION REFERENCE TO ℄ CONST GEORGETOWN RD
+00⊗ STATION REFERENCE TO ℄ CONST ST ANDREWS PL

FOR LEGEND SEE SHEET 267

273
335

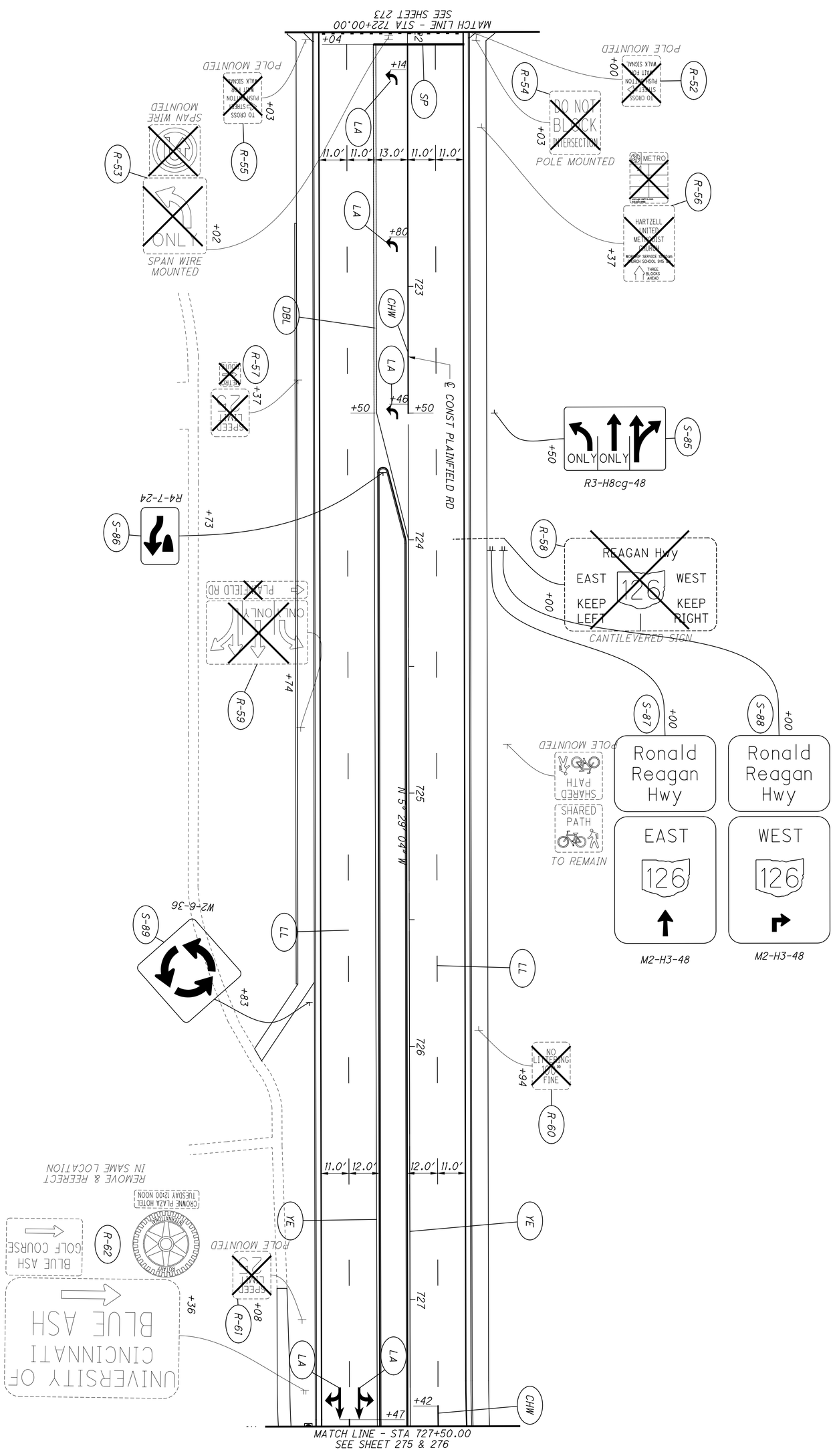
HAM-PLAINFIELD RD ROUNDABOUTS

TRAFFIC CONTROL PLAN - PLAINFIELD RD
STA. 716+50.00 TO STA. 722+00.00

CALCULATED CML
CHECKED JS

HORIZONTAL SCALE IN FEET
0 20
10 40

N



FOR LEGEND SEE SHEET 267

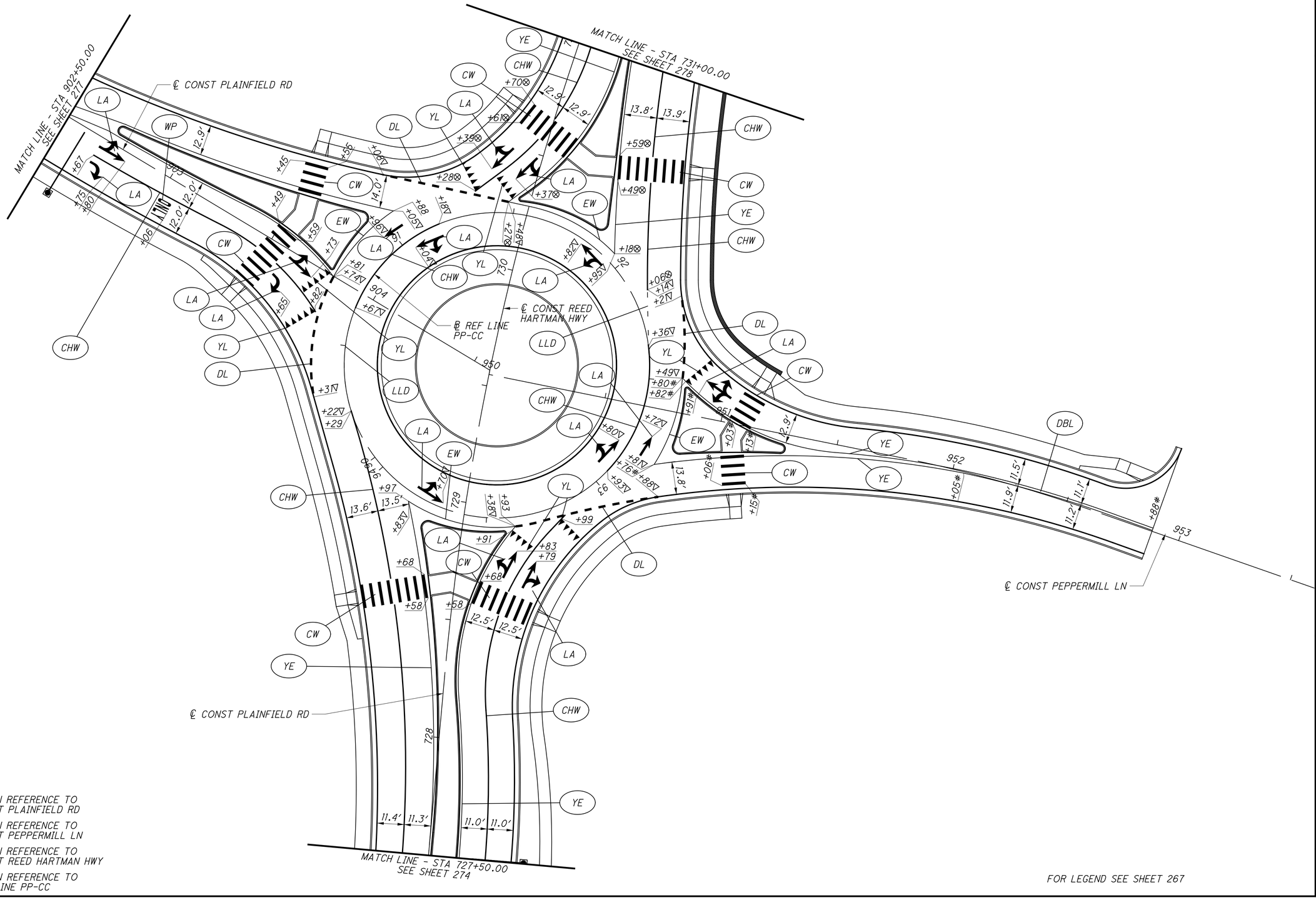
HAM-PLAINFIELD RD ROUNDABOUTS

TRAFFIC CONTROL PLAN - PLAINFIELD RD
STA. 722+00.00 TO STA. 727+50.00

CALCULATED CML
CHECKED JS

0 10 20 40
HORIZONTAL SCALE IN FEET

N



+00 STATION REFERENCE TO ℄ CONST PLAINFIELD RD

+00# STATION REFERENCE TO ℄ CONST PEPPERMILL LN

+00⊗ STATION REFERENCE TO ℄ CONST REED HARTMAN HWY

+00▽ STATION REFERENCE TO ℄ REF LINE PP-CC

FOR LEGEND SEE SHEET 267

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CML
CHECKED JS

TRAFFIC CONTROL PLAN - PLAINFIELD RD
STA. 727+50.00 TO STA. 731+50.00

HAM-PLAINFIELD RD ROUNDABOUTS

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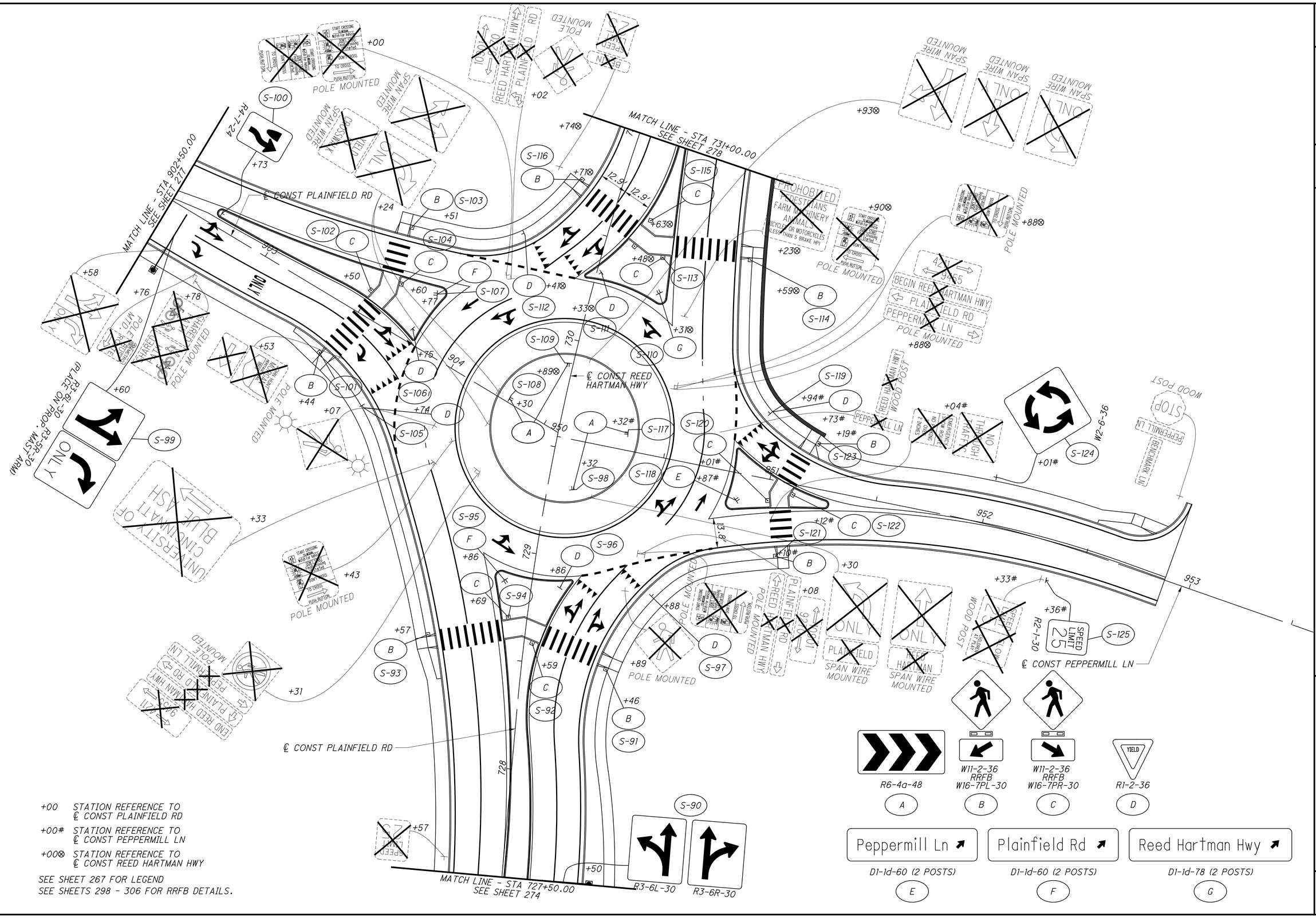

+00 STATION REFERENCE TO ℄ CONST PLAINFIELD RD

+00# STATION REFERENCE TO ℄ CONST PEPPERMILL LN

+00⊗ STATION REFERENCE TO ℄ CONST REED HARTMAN HWY

SEE SHEET 267 FOR LEGEND

SEE SHEETS 298 - 306 FOR RRFB DETAILS.

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CML
CHECKED JS

TRAFFIC CONTROL PLAN - PLAINFIELD RD
STA. 727+50.00 TO STA. 731+00.00

HAM-PLAINFIELD RD ROUNDABOUTS

276
335

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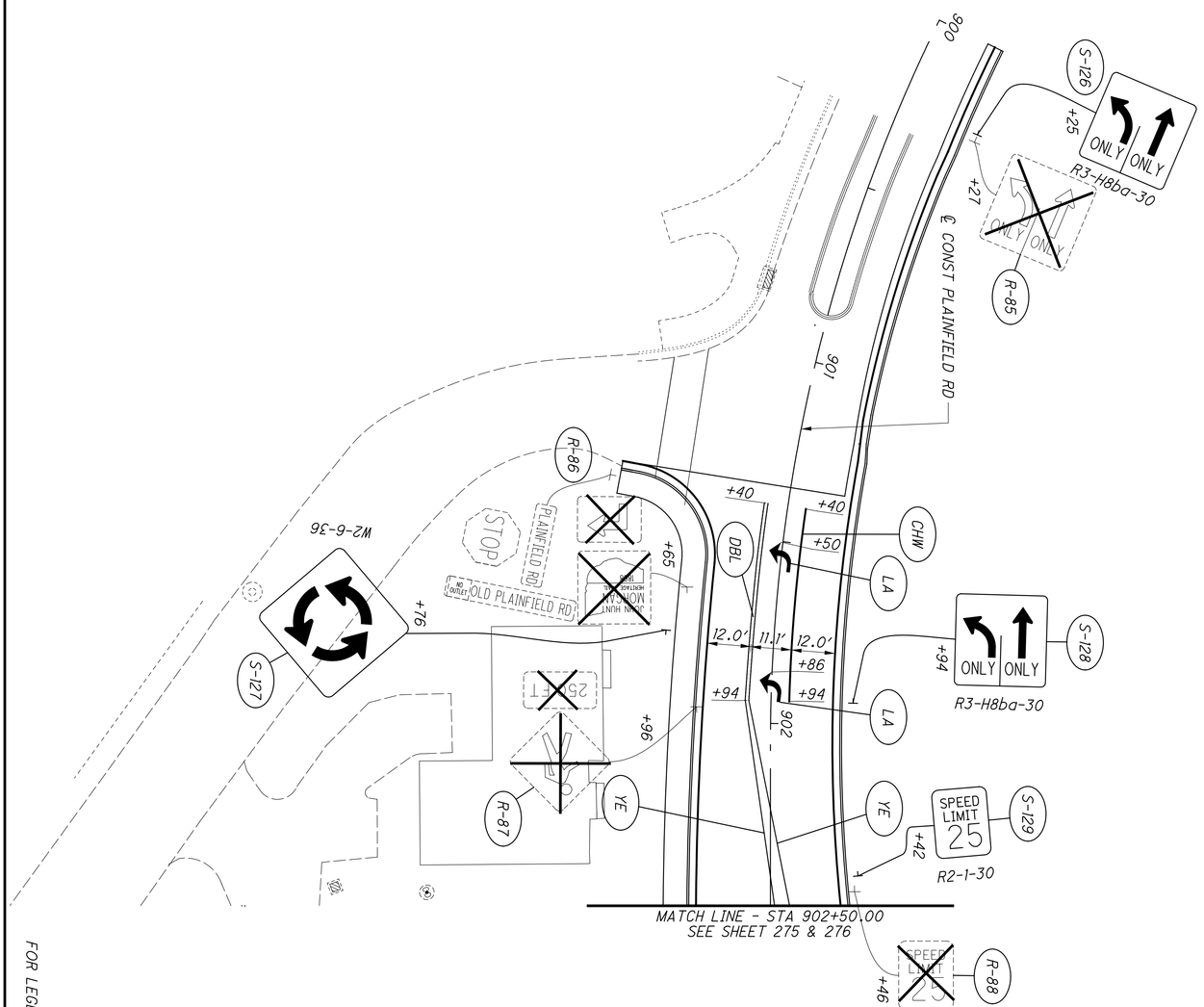

FOR LEGEND SEE SHEET 267

277 / 335	HAM-PLAINFIELD RD ROUNDABOUTS	TRAFFIC CONTROL PLAN - PLAINFIELD RD STA. 898+00.00 TO STA. 902+50.00	CALCULATED CML CHECKED JS	0 10 20 40 HORIZONTAL SCALE IN FEET

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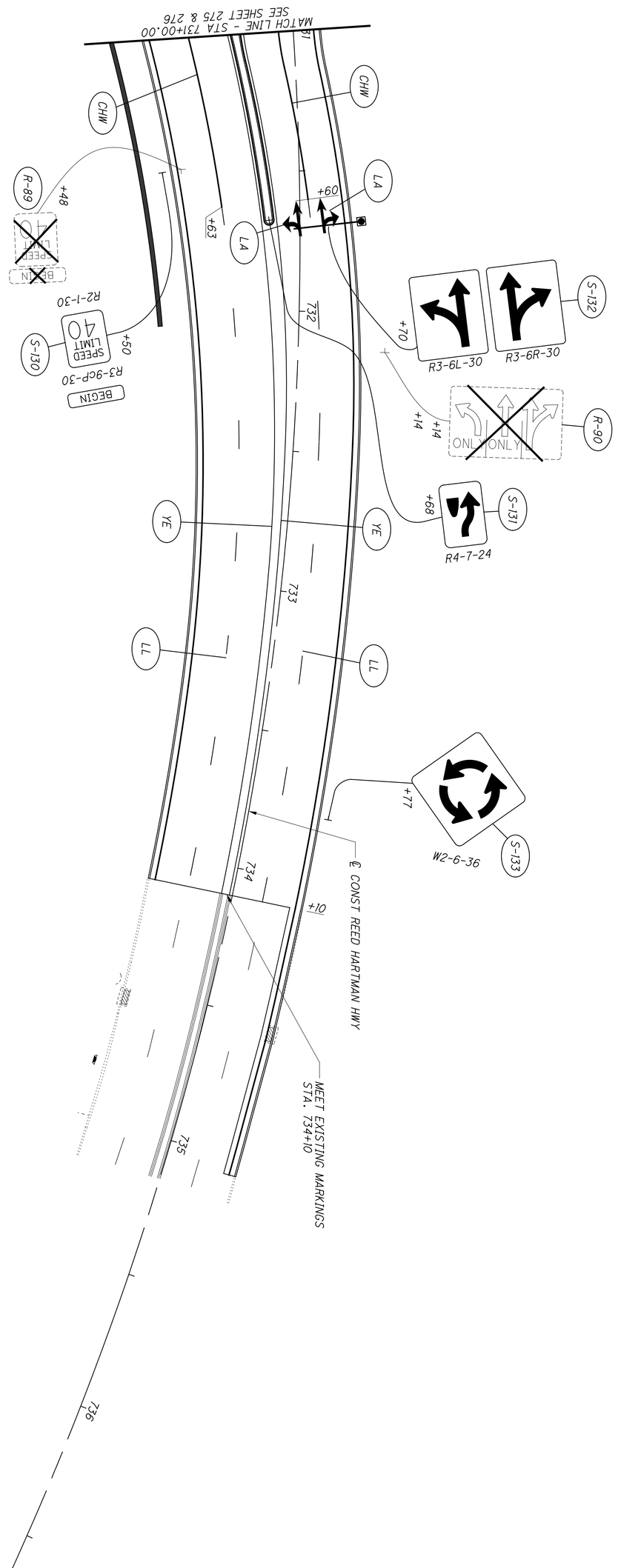

FOR LEGEND SEE SHEET 267

HAM-PLAINFIELD RD ROUNDABOUTS

TRAFFIC CONTROL PLAN - REED HARTMAN HWY

STA. 731+00.00 TO STA. 736+00.00

CALCULATED CML
CHECKED JS

0 10 20 40
HORIZONTAL SCALE IN FEET

N

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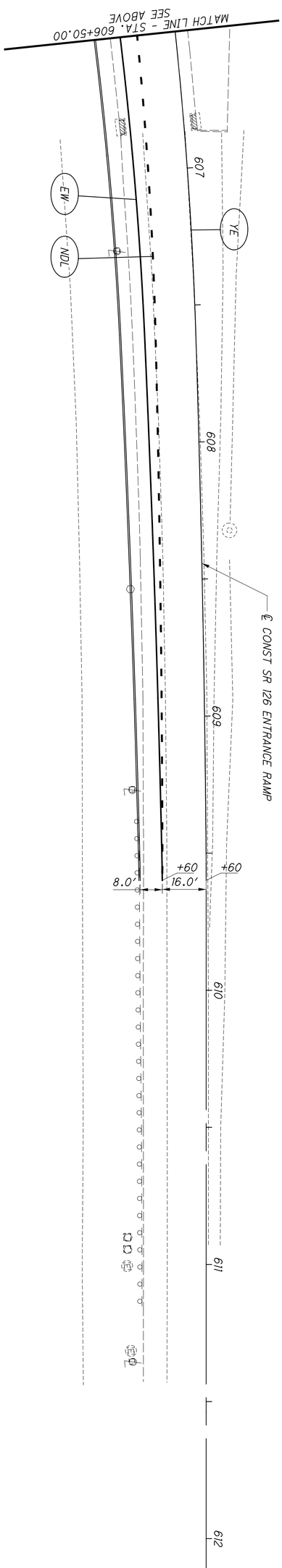
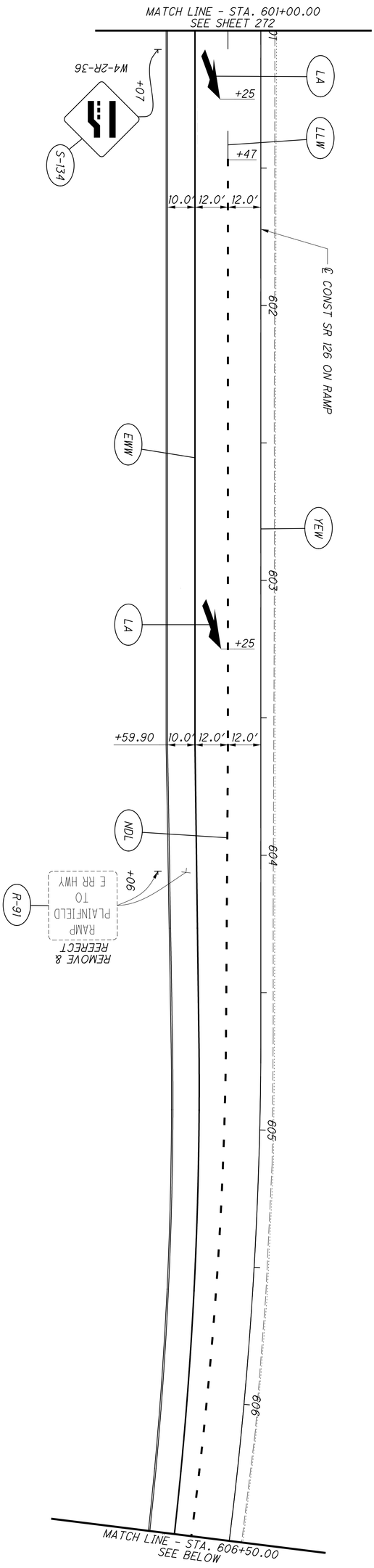




FOR LEGEND SEE SHEET 267

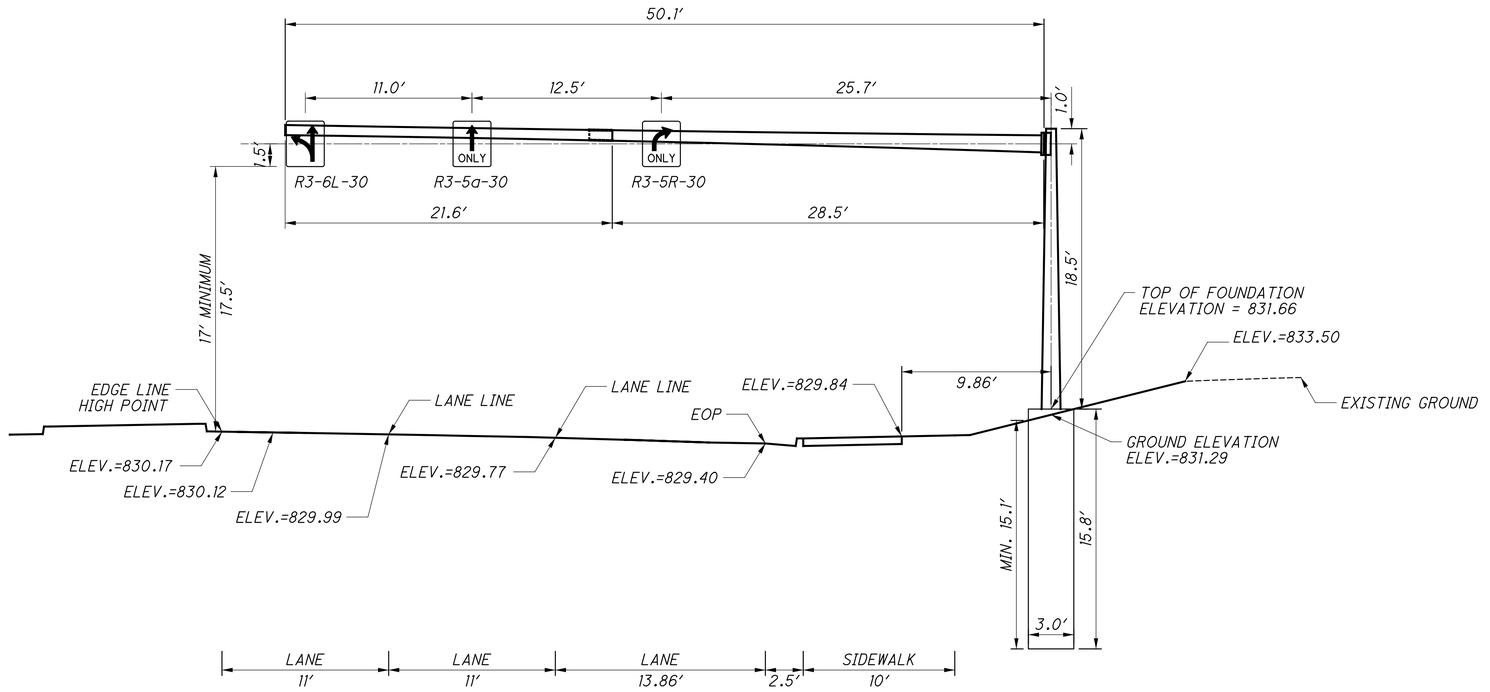
HAM-PLAINFIELD RD
ROUNDABOUTS

TRAFFIC CONTROL PLAN - SR 126 ENTRANCE
STA. 601+00.00 TO STA. 611+00.00

CALCULATED CML
CHECKED JS

0 10 20 40
HORIZONTAL SCALE IN FEET

N



MAST ARM DESIGN

STA. 718+15.00, PLAINFIELD RD. SB
TC-16.22, DESIGN 13
TOTAL ARM = 50.5'
PROPOSED SIGN AREA = 22.5 SF

CALCULATED CDP
CHECKED JS

SIGN ELEVATION DETAILS
PLAINFIELD RD - STA 718+50.00

HAM-PLAINFIELD RD ROUNDABOUTS

280
335

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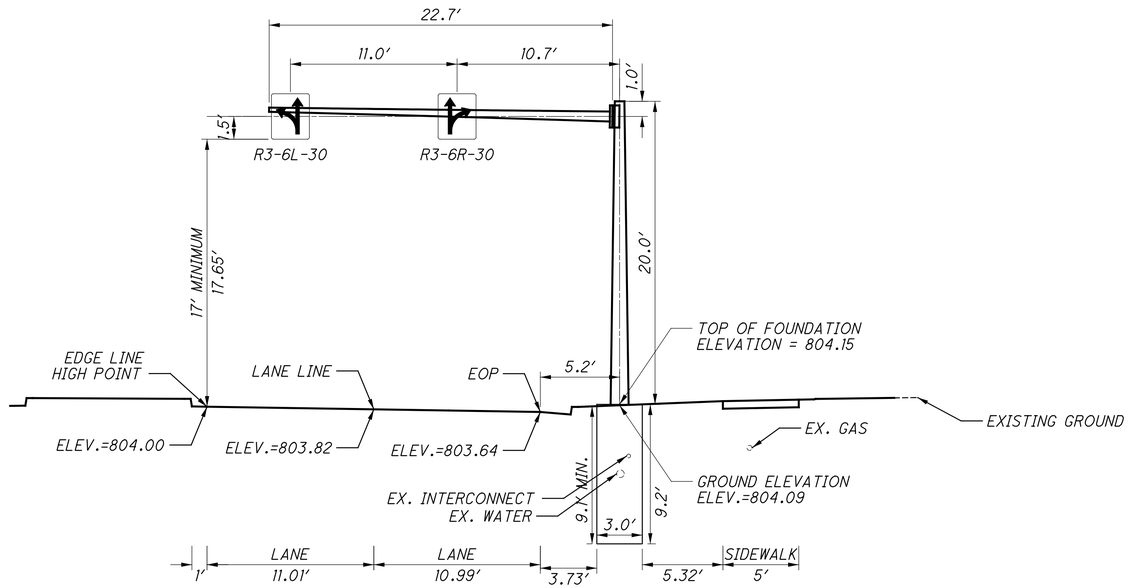

MAST ARM DESIGN

STA. 727+50.00, PLAINFIELD RD. NB
TC-16.22, DESIGN 7
TOTAL ARM = 26.5'
PROPOSED SIGN AREA = 15.0 SF

CALCULATED CDP
CHECKED JS

SIGN ELEVATION DETAILS
PLAINFIELD RD - STA 727+50.00

HAM-PLAINFIELD RD ROUNDABOUTS

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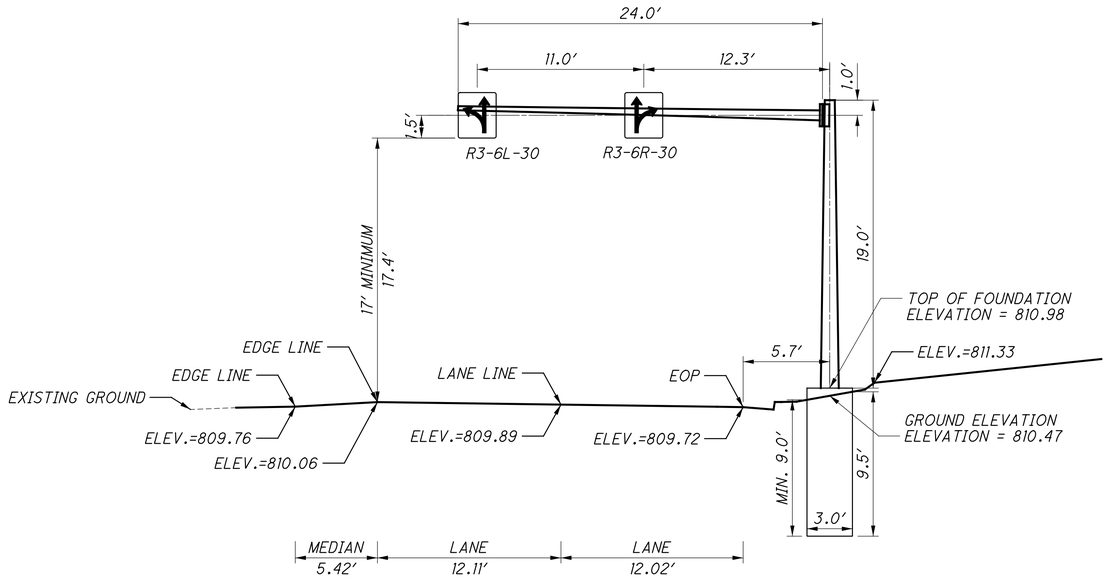

MAST ARM DESIGN

STA. 731+70.00, PLAINFIELD RD. SB
TC-16.22, DESIGN 7
TOTAL ARM = 24.0'
PROPOSED SIGN AREA = 15.0 SF

CALCULATED CDP
CHECKED JS

SIGN ELEVATION DETAILS
PLAINFIELD RD - STA 731+70.00

HAM-PLAINFIELD RD ROUNDABOUTS

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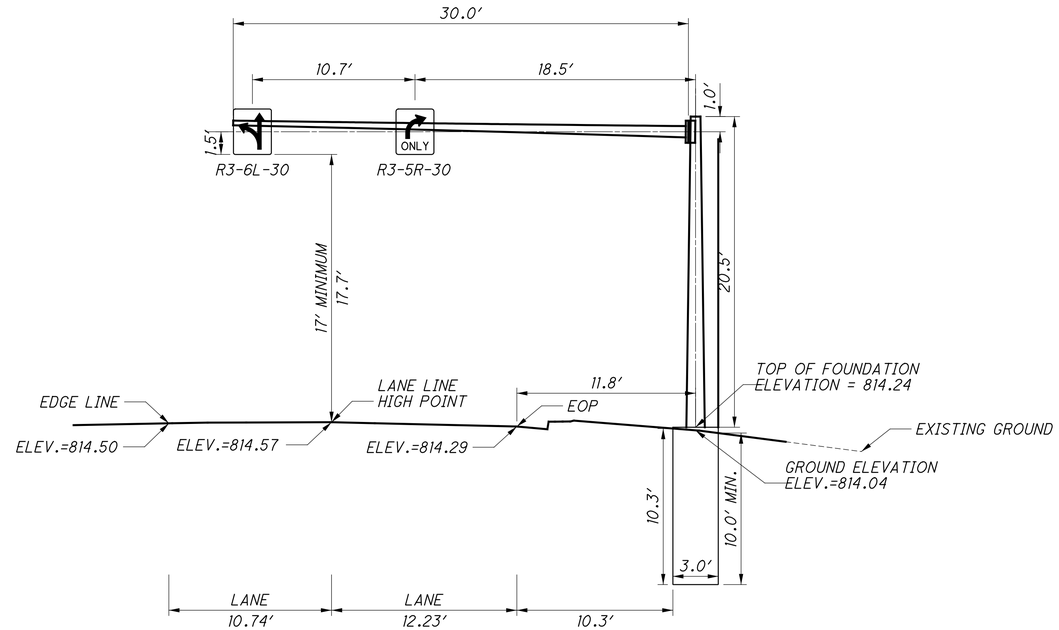

MAST ARM DESIGN

STA. 902+60.00, PLAINFIELD RD. EB
TC-16.22, DESIGN 9
TOTAL ARM = 30.0'
PROPOSED SIGN AREA = 15.0 SF

CALCULATED CDP
CHECKED JS

SIGN ELEVATION DETAILS
PLAINFIELD RD - STA 902+60.00

HAM-PLAINFIELD RD ROUNDABOUTS

283
335

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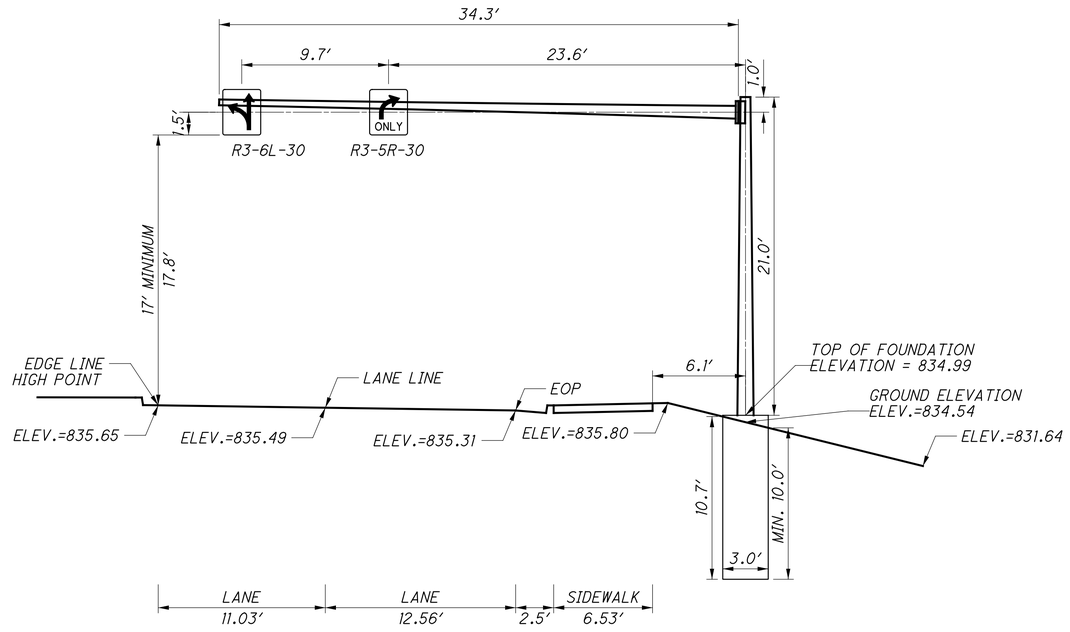

MAST ARM DESIGN

STA. 817+00.00, HUNT RD. WB
TC-16.22, DESIGN 9
TOTAL ARM = 34.0′
PROPOSED SIGN AREA = 15.0 SF

CALCULATED CDP
CHECKED JS

SIGN ELEVATION DETAILS
HUNT RD - STA 817+00.00

HAM-PLAINFIELD RD ROUNDABOUTS

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SHEET NO.	LOCATION	625 CONDUIT, 2", 725.05	625 CONDUIT, 3", 725.05	625 CONDUIT, 4", 725.05	625 CONDUIT, JACKED OR DRILLED, 725.04, 4"	625 CONDUIT, 4", MULTICELL, 725.20, EPC-40	625 TRENCH, 24" DEEP	625 TRENCH, 30" DEEP	632 SIGNAL CABLE, 3 CONDUCTOR, NO. 14 AWG	632 SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG	632 SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG	632 POWER CABLE, 2 CONDUCTOR, NO. 6 AWG	632 SERVICE CABLE, 3 CONDUCTOR, NO. 6 AWG	625 PULL BOX, 725.08, 24"	625 PULL BOX, 725.08, 32"	625 PULL BOX, 725.08, 48", TYPE 1	630 GROUND MOUNTED SUPPORT, NO. 3 POST	630 SIGN HANGER ASSEMBLY, MAST ARM	630 SIGN SUPPORT ASSEMBLY, POLE MOUNTED	630 SIGN, FLAT SHEET	630 SIGN, DOUBLE FACED, STREET NAME	NOTES
		FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	EACH	EACH	EACH	FT	EACH	EACH	SF	EACH	
	SR 126 & PLAINFIELD RD																					
	A			6			6		64	64	96											
	B		7				7		17	17	34											
	C				63				73	73	146											
	D	6					6		16	16												
	E		36				36				92											
	F				116				252	252	252											
	G		9				9				38											
	H		30				30		80	80												
	I	4					4		14	14												
	J				67				77	77												
	K	5							15	15												
	L	11					11					21										
	POWER SERVICE											29	81									
	PB-1													1								
	PB-2													1								
	PB-3													1								
	PB-4													1								
	PB-5													1								
	PS-1								9	13							14			2.25		
	PS-2								9	13												
	SP-1										146							1	2	11.25	1	
	SP-2										96							1	2	11.25	1	
	PS-3								9	13												
	SP-3								9	13	119								2	2.25	1	
	** 100% LOCAL FUNDING SPLIT CARRIED TO GENERAL SUMMARY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	TOTALS CARRIED TO GENERAL SUMMARY	26	82	6	246	0	109	0	644	660	1019	50	81	5	0	0	14	2	6	27	3	

CALCULATED EMS
CHECKED POC

TRAFFIC SIGNAL SUBSUMMARY

HAM-PLAINFIELD RD ROUNDABOUTS

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SHEET NO.	LOCATION	625 CONDUIT, 2", 725.05	625 CONDUIT, 3", 725.05	625 CONDUIT, 4", 725.05	625 CONDUIT, JACKED OR DRILLED, 725.04, 4"	625 CONDUIT, 4", MULTICELL, 725.20, EPC-40	625 TRENCH, 24" DEEP	625 TRENCH, 30" DEEP	632 SIGNAL CABLE, 3 CONDUCTOR, NO. 14 AWG	632 SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG	632 SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG	632 POWER CABLE, 2 CONDUCTOR, NO. 6 AWG	632 SERVICE CABLE, 3 CONDUCTOR, NO. 6 AWG	625 PULL BOX, 725.08, 24"	625 PULL BOX, 725.08, 32"	625 PULL BOX, 725.08, 48", TYPE 1	630 GROUND MOUNTED SUPPORT, NO. 3 POST	630 SIGN HANGER ASSEMBLY, MAST ARM	630 SIGN SUPPORT ASSEMBLY, POLE MOUNTED	630 SIGN, FLAT SHEET	630 SIGN, DOUBLE FACED, STREET NAME	NOTES
		FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	EACH	EACH	EACH	FT	EACH	EACH	SF	EACH	
	GEORGETOWN & PLAINFIELD RD																					
	A		5				5			10	10											
	B				80				90	270	180											
	C		41			82		41	51	153	102											
	D			6		12		6	32	96	64											
	E				60	120		60	70	140	70											
	F		17				17			54	27											
	G	10					10		20	20												
	H				96				106	212	106											
	I		13				13		23		23											
	J		9				9			19	19											
	K		17				17			27	27											
	L	21					21					31										
	POWER SERVICE											30	45									
	PB-1													1								
	PB-2														1							
	PB-3															1						
	PB-4														1							
	PB-5														1							
	PB-6													1								
	SP-1									13	51								1		1	
	SP-2									13	66							2	2	16.5	1	
	SP-3									13	52								2	1.5	1	
	SP-4									13	63							2	1	15	1	
	PS-1								9	13												
	PS-2								9	13												
	TRAFFIC SIGNAL INTERCONNECT																					
	PLAINFIELD																					
	STA 711+62.8, 42.9' RT					13		13							1							
	STA 714+35.9, 53.6' RT					546		273							1							
	STA 715+94.6, 71.1' RT					320		160							1							
	STA 720+90.2, 41.4' RT					1000		500														
	STA 722+19.1, 40.8' RT					62		31														
	STA 725+18.1, X' RT					598		299							1							
	STA 728+26.0, 34.4' RT					616		308							1							
	STA 730+04.1, 78.1' RT					350		175							1							
	STA 734+10, 34.5' RT					784		392							1							
	** 100% LOCAL FUNDING SPLIT CARRIED TO GENERAL SUMMARY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	TOTALS CARRIED TO GENERAL SUMMARY	31	102	6	236	4503	92	2258	410	1079	860	61	45	2	10	1	0	4	6	33	4	

CALCULATED EMS
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TRAFFIC SIGNAL SUBSUMMARY

HAM-PLAINFIELD RD ROUNDABOUTS

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SHEET NO.	LOCATION	625	632	632	632	632	632	632	632	632	632	632	632	632	632		809					NOTES
		GROUND ROD	VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE	VEHICULAR SIGNAL HEAD, (LED), 5-SECTION, 12" LENS, 1-WAY, POLYCARBONATE	COVERING OF VEHICULAR SIGNAL HEAD	SIGNAL SUPPORT FOUNDATION	SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 2	SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 4	SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 12	SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 13	PEDESTRIAN SIGNAL HEAD (LED) TYPE D2, COUNTDOWN	PEDESTRIAN PUSHBUTTON	COVERING OF PEDESTRIAN SIGNAL HEAD	PEDESTAL FOUNDATION	PEDESTAL, 8', TRANSFORMER BASE		STOP LINE RADAR DETECTION					
		EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH		EACH					
	SR 126 & PLAINFIELD RD																					
	PS-1	1									1	1	1	1	1							
	PS-2	1									1	1	1	1	1							
	PS-3	1									1	1	1	1	1							
	SP-1	1	4		4	1				1							1					
	SP-2	1	4		4	1		1									1					
	SP-3	1	3		3	1			1		1	1										
	SIGNAL CABINET	1																				
	GEORGETOWN & PLAINFIELD RD																					
	SP-1	1	2		2	1	1				1		1				1					
	SP-2	1	1	1	2	1			1		1		1									
	SP-3	1	2		2	1	1				1		1				2					
	SP-4	1	1	1	2	1			1		1		1				1					
	PS-1	1									1	1	1	1	1							
	PS-2	1									1	1	1	1	1							
	SIGNAL CABINET	1																				
	** 100% LOCAL FUNDING SPLIT CARRIED TO GENERAL SUMMARY	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0					
	TOTALS CARRIED TO GENERAL SUMMARY	14	17	2	19	7	2	1	3	1	10	6	9	5	5		6					

CALCULATED EMS
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TRAFFIC SIGNAL SUBSUMMARY

HAM-PLAINFIELD RD ROUNDABOUTS

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SHEET NO.	LOCATION	632	632	633	633	633	633															NOTES
		POWER SERVICE	REMOVAL OF TRAFFIC SIGNAL INSTALLATION	CONTROLLER UNIT, TYPE TS2/A2, WITH CABINET, TYPE TS2	CABINET FOUNDATION, AS PER PLAN	CONTROLLER WORK PAD, AS PER PLAN	UNINTERRUPTIBLE POWER SUPPLY (UPS), 1000 WATT, AS PER PLAN															
		EACH	EACH	EACH	EACH	EACH	EACH															
	SR 126 & PLAINFIELD RD																					
	SIGNAL CABINET		1	1	1	1	1															
	POWER SERVICE	1																				
	GEORGETOWN & PLAINFIELD RD																					
	SIGNAL CABINET		1	1	1	1	1															
	POWER SERVICE	1																				
	**** 100% LOCAL FUNDING SPLIT CARRIED TO GENERAL SUMMARY**	0	0	0	0	0	0															
	TOTALS CARRIED TO GENERAL SUMMARY	**2**	**2**	**2**	**2**	**2**	**2**															

CALCULATED EMS
CHECKED POC

TRAFFIC SIGNAL SUB-SUMMARY

HAM-PLAINFIELD RD ROUNDABOUTS

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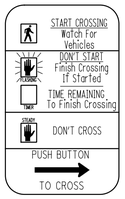
PEDESTRIAN SIGNS



R10-3E-9
2 - LEFT ARROWS
2 - RIGHT ARROWS



R9-3-18
GROUND MOUTNED
SN3

POLE MOUNTED
SN4
SN5, SN6

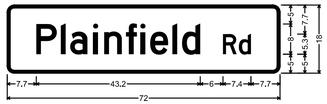


R3-1-36
SN1



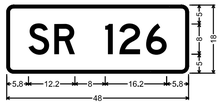
R3-2-36
SN2

STREETNAME SIGNS



1.9" Radius, 0.8" Border, White on, Green;
"Plainfield", D 2K; "Rd", D 2K;

POLE MOUNTED
D3-1
18" X 72"
SN7



1.9" Radius, 0.8" Border, White on, Green;
"SR 126", D 2K;

POLE MOUNTED
D3-1
18" X 48"
SN8, SN9

PULLBOX TABLE

PULL BOX #	STATION	SIDE	OFFSET	SIZE (IN.)
PB-1	708+42.9	RT	63.4'	24"
PB-2	709+05.9	RT	59.1'	24"
PB-3	708+48.7	LT	52.7'	24"
PB-4	708+74.9	LT	66.8'	24"
PB-5	709+39.8	LT	50.6'	24"

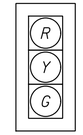
SIGNAL HEADS

PEDESTRIAN HEADS
(LED, COUNTDOWN, TYPE D2)

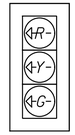


P2A, P2B,
P6A, P6B

VEHICULAR SIGNAL HEADS
(12" LENS, LED, YELLOW,
W/ REFLECTIVE BACKPLATES)



2A, 2B, 2C,
4A, 4B, 6A, 6B



1A, 1B,
7A, 7B

CONDUIT TABLE

A 4" PVC CONDUIT
W/ (4)-3/C, (4)-5/C, (6)-7/C
W/ (2) DETECTION CABLE
IN TRENCH (6')

B 3" PVC CONDUIT
W/ (2)-7/C, (1)-5/C, (1)-3/C
IN TRENCH (7')

C 4" GALV. CONDUIT
W/ (2)-7/C, (1)-5/C, (1)-3/C
W/ (1) DETECTION CABLE
BORE (63')

D 2" PVC CONDUIT
W/ (1)-5/C, (1)-3/C
IN TRENCH (6')

E 3" PVC CONDUIT
W/ (2)-7/C
W/ (1) DETECTION CABLE
IN TRENCH (36')

F 4" GALV. CONDUIT
W/ (2)-7/C, (2)-5/C, (2)-3/C
W/ (1) DETECTION CABLE
BORE (116')

G 3" PVC CONDUIT
W/ (2)-7/C
W/ (1) DETECTION CABLE
IN TRENCH (9')

H 3" PVC CONDUIT
W/ (2)-5/C, (2)-3/C
IN TRENCH (30')

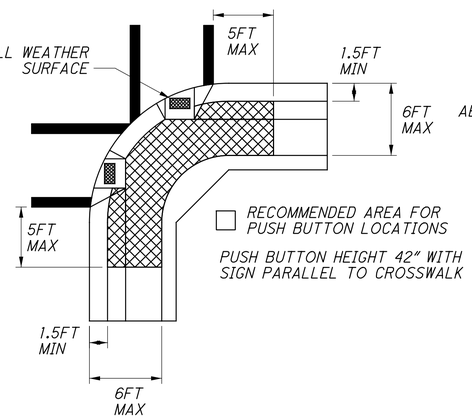
I 2" PVC CONDUIT
W/ (1)-5/C, (1)-3/C
IN TRENCH (4')

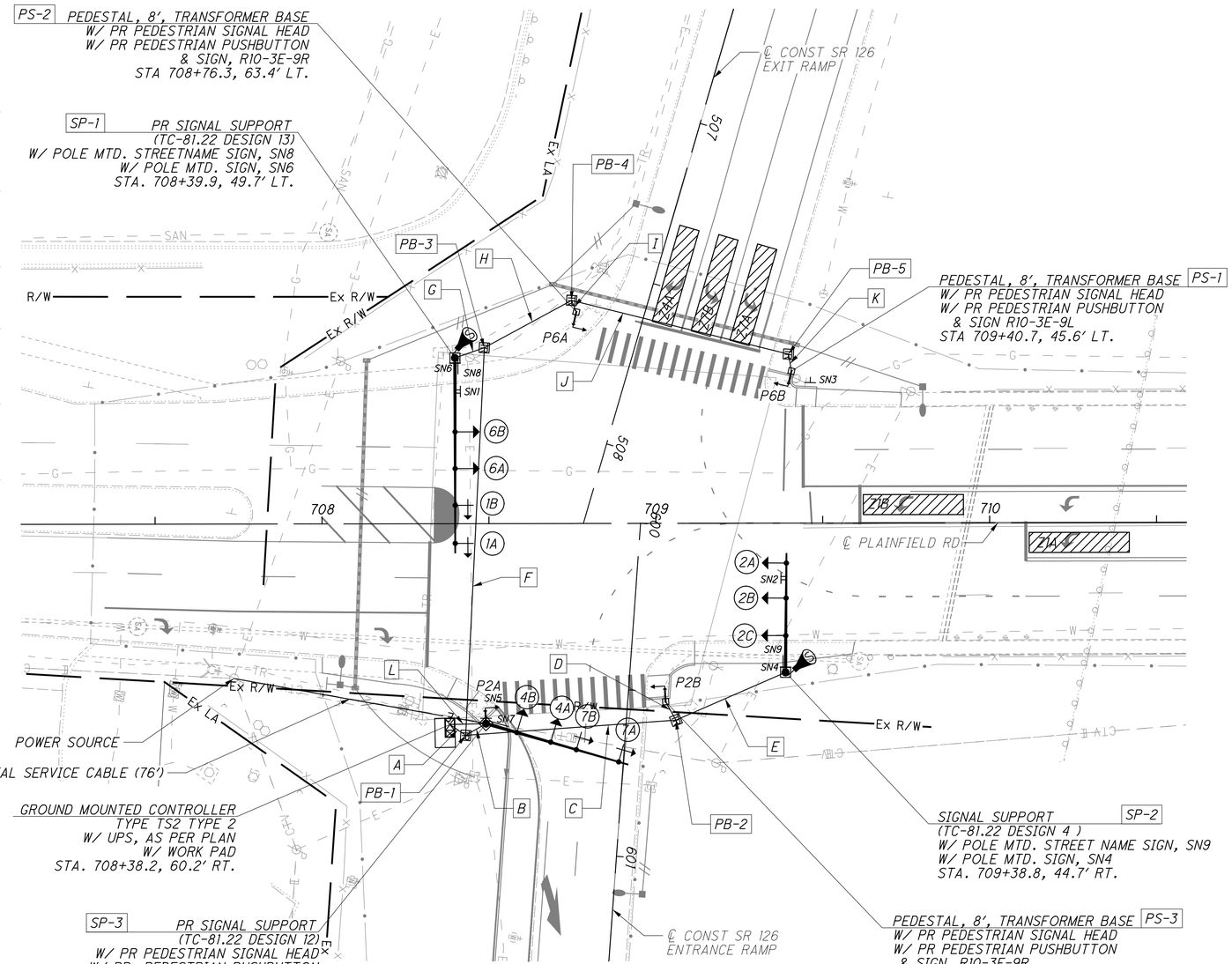
J 4" GALV. CONDUIT
W/ (1)-5/C, (1)-3/C
BORE (67')

K 2" PVC CONDUIT
W/ (1)-5/C, (1)-3/C
IN TRENCH (5')

L 2" PVC CONDUIT
W/ 2/C POWER CABLE
IN TRENCH (11')

ADA PUSHBUTTON & STRUCTURE DIAGRAM





PLAN VIEW

LEGEND

	PROP	EXIST
TRAFFIC SIGNAL, 2 UNIT, 3 UNIT, OR PHB HEAD, 12"		
TRAFFIC SIGNAL, 3 UNIT HEAD, 12" WITH ARROWS		
SIGNAL SUPPORT POLE		
PEDESTRIAN HEAD		
PEDESTRIAN PUSH BUTTON		
PEDESTAL SUPPORT		
CONTROLLER CABINET AND WORK PAD (TS-2) W/ UPS		
TRAFFIC PULL BOX, 18", 24"	TR	TR
TRAFFIC PULL BOX, 32", 48"	TR	TR
STOP-LINE RADAR DETECTION UNIT	S	S
DETECTION ZONE		
SIGNAL CONDUIT		

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED JRB
CHECKED EMS

TRAFFIC SIGNAL PLAN
PLAINFIELD RD & SR 126 RAMPS
HAM-PLAINFIELD RD ROUNDABOUTS

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SIGNAL TIMING CHART

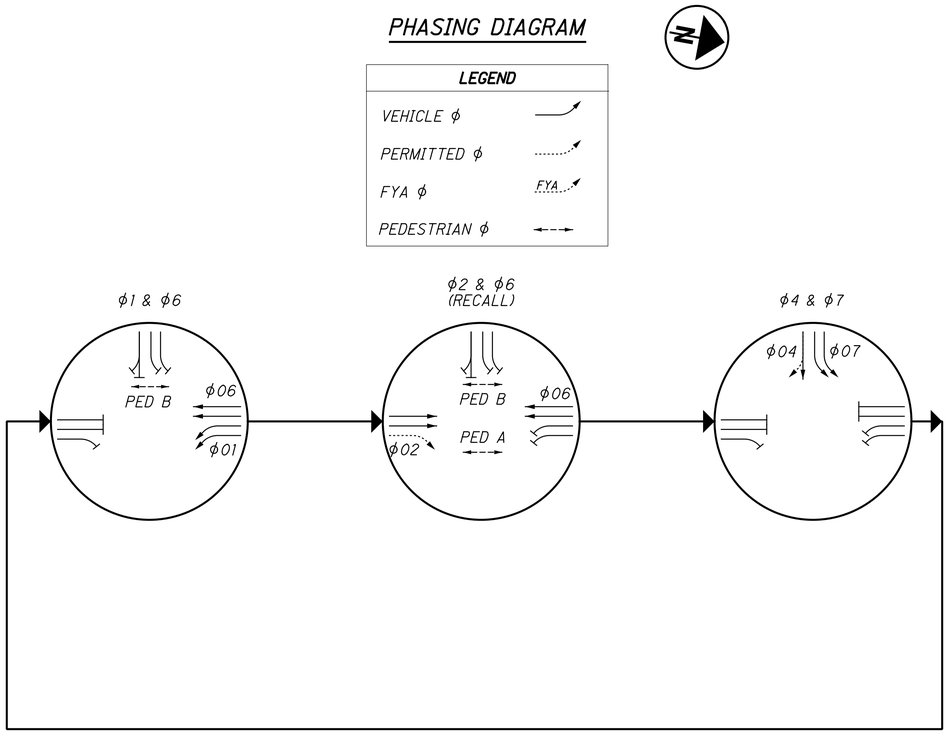
START UP			DUAL ENTRY: -			PHASES: -				
			REST IN RED:			RING 1 -			RING 2 -	
START IN: ALL RED			OVERLAP			A	B	C	D	
TIME FOR FLASH OR ALL RED: -										
FIRST PHASE(S): -			PHASES			-	-	-	-	
COLOR DISPLAYED: -										
INTERVAL OR FEATURE			CONTROLLER MOVEMENT NO.							
INTERSECTION MOVEMENT (PHASE)			1	2	3	4	5	6	7	8
DIRECTION			SB LT	NB	-	EB**	-	SB	-	WB
MINIMUM GREEN (INITIAL)		(SEC.)	-	-	-	-	-	-	-	-
ADDED INITIAL		*(SEC./ACTUATION)	-	-	-	-	-	-	-	-
MAXIMUM INITIAL		(SEC.)	-	-	-	-	-	-	-	-
PASSAGE TIME (PRESET GAP)		(SEC.)	-	-	-	-	-	-	-	-
TIME BEFORE REDUCTION		*(SEC.)	-	-	-	-	-	-	-	-
MINIMUM GAP		*(SEC.)	-	-	-	-	-	-	-	-
TIME TO REDUCE		*(SEC.)	-	-	-	-	-	-	-	-
MAXIMUM GREEN I		(SEC.)	-	-	-	-	-	-	-	-
MAXIMUM GREEN II		(SEC.)	-	-	-	-	-	-	-	-
YELLOW CHANGE		(SEC.)	-	-	-	-	-	-	-	-
ALL RED CLEARANCE		(SEC.)	-	-	-	-	-	-	-	-
WALK		(SEC.)	-	-	-	-	-	-	-	-
PEDESTRIAN CLEARANCE		(SEC.)	-	-	-	-	-	-	-	-
RECALL	MAXIMUM	(ON/OFF)	-	-	-	-	-	-	-	-
	MINIMUM	(ON/OFF)	-	-	-	-	-	-	-	-
	PEDESTRIAN	(ON/OFF)	-	-	-	-	-	-	-	-
MEMORY		(ON/OFF)	-	-	-	-	-	-	-	-

*VOLUME DENSITY CONTROLS

NOTES:

- ALL MOVEMENTS SHALL BE ACTUATED. THE PRIMARY THRU MOVEMENT SHOULD HAVE MIN RECALL ACTIVE TO REST IN GREEN.
- FOR PROTECTED/PERMISSIVE PHASES, IMPLEMENT CALL OMITS TO AVOID YELLOW BALL TRAP.
- ENABLE ϕ1 DETECTOR SWITCHING TO ALLOW ϕ1 TO EXTEND ϕ6 WHEN ALLOCATED GREEN TIME FOR LEFT TURN PHASES ARE EXHAUSTED.
- COUNTDOWN PEDESTRIAN SIGNALS SHALL GO TO ZERO ON YELLOW PER OMUTCD FIGURE 4E-2.
- ALL DETECTOR DELAYS SHALL BE PLACED IN THE CONTROLLER.

PHASING DIAGRAM



RADAR DETECTION CHART

DETECTION ZONE	MOVEMENT	PULSE OR PRESENCE	ASSOCIATED PHASE	DELAY PROGRAMMED IN CONTROLLER (SEC.)	EXTENSION PROGRAMMED IN CONTROLLER (SEC.)	DELAY INHIBITED PHASE	PURPOSE	DETECTION ZONE LENGTH (FT)
Z1A	SBL	PRESENCE	1	-	-	-	Stop-Line	30
Z1B	SBL	PRESENCE	1	-	-	-	Stop-Line	30
Z4A	EBTR	PRESENCE	4	5	-	-	Stop-Line	30
Z7A	EBL	PRESENCE	7	-	-	-	Stop-Line	30
Z7B	EBL	PRESENCE	7	-	-	-	Stop-Line	30

CALCULATED JRB
CHECKED EMS

TRAFFIC SIGNAL PLAN DETAIL
HAM-PLAINFIELD RD & SR 126 RAMPS

HAM-PLAINFIELD RD
ROUNDABOUTS

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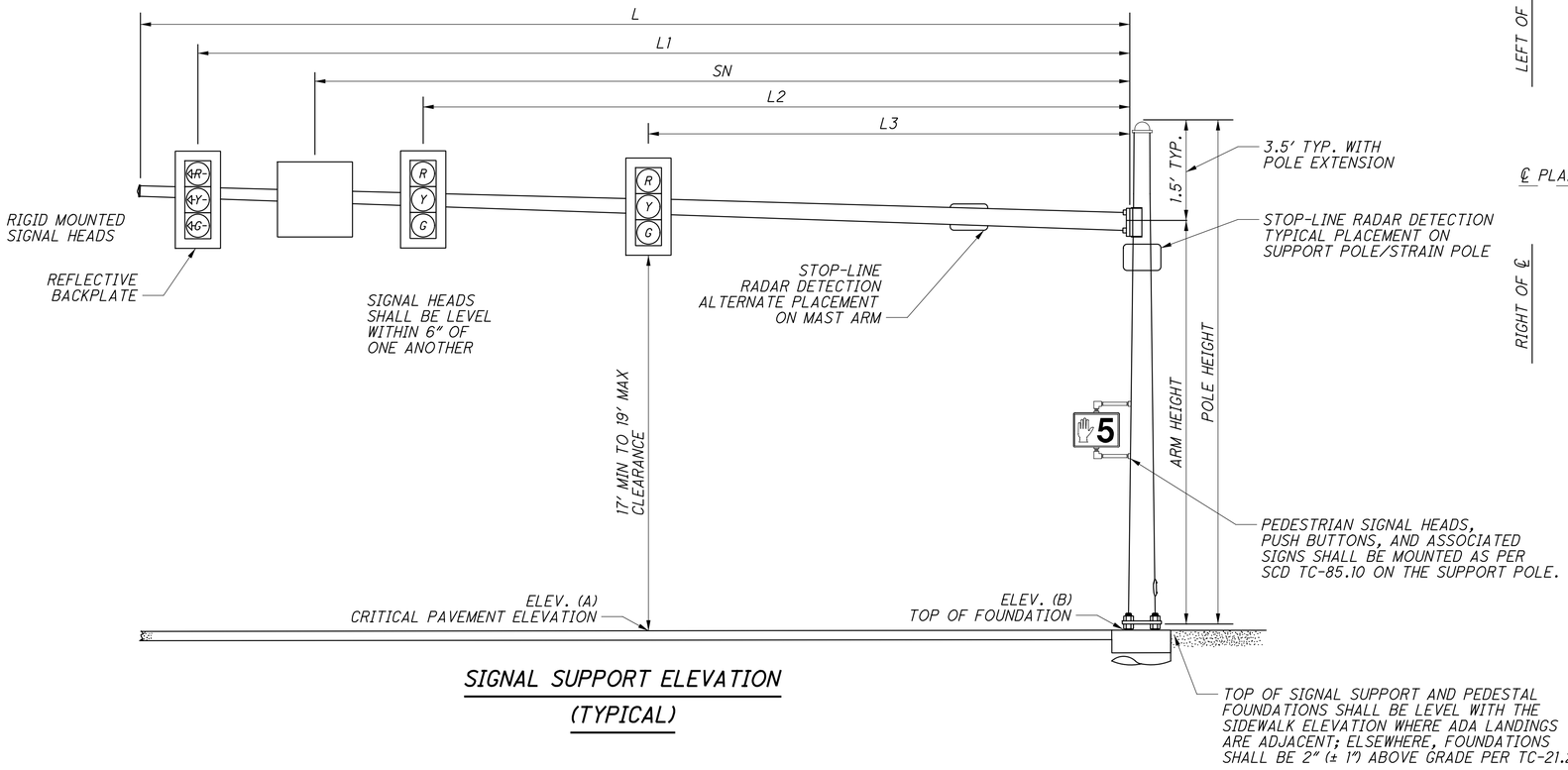
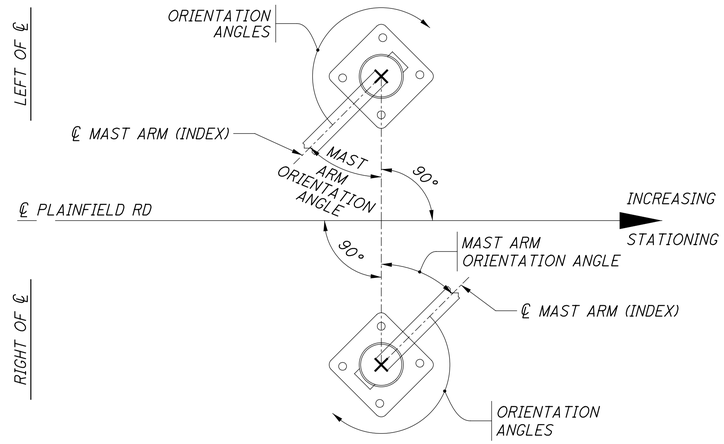


SIGNAL SUPPORT ELEVATION (TYPICAL)



POLE ORIENTATION

MAST ARM TABLE

SUPPORT NO.	STATION	OFFSET	ELEVATION		SIGNAL SUPPORT DETAILS										ORIENTATION ANGLES FROM MAST ARM							
			A (Pavt. Elev.)	B (Top of Found.)	DESIGN TYPE	DESIGN NO.	POLE HEIGHT	ARM HEIGHT	L	L1	L2	L3	L4	SN1	MAST ARM A ANGLE	PEDESTRIAN SIGNAL	PEDESTRIAN PUSHBUTTON	POWER SERVICE	SIGNAL CABINET	BRACKET ARM	HANDHOLE	CABLE ENTRANCE 12" FROM TOP
							FT	FT	FT	FT	FT	FT	FT	FT	DEG	DEG	DEG	DEG	DEG	DEG	DEG	DEG
SP-1	708+39.9	49.7' LT	864.5	864.19	TC-81.22	13	20.5	19.0	58	55	43.5	32.5	21.5	10	0	-	-	-	-	-	180	-
SP-2	709+38.8	44.7' RT	862.1	862.17	TC-81.22	4	20.5	19.0	35	32	21.5	10.5	-	28	0	-	-	-	-	-	180	-
SP-3	708+49.0	59.9' RT	862.6	863.67	TC-81.22	12	20.0	18.5	44	41	27.5	19.5	9	-	106	254	254	-	-	-	119	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

CALCULATED JRB
CHECKED EMS

TRAFFIC SIGNAL PLAN DETAIL
PLAINFIELD RD & SR 126 RAMPS

HAM-PLAINFIELD RD
ROUNDABOUTS

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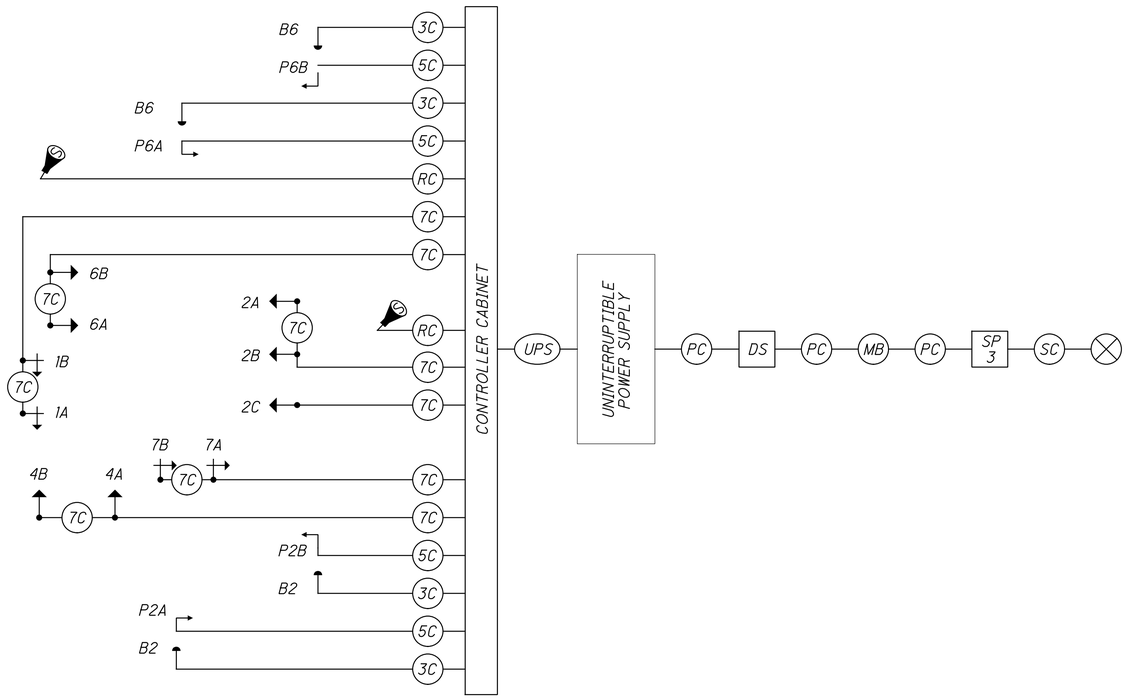
WIRING DIAGRAM



FIELD WIRING HOOK-UP CHART

SIGNAL HEAD	INDICATION	FIELD TERMINAL	FLASH	SIGNAL HEAD	INDICATION	FIELD TERMINAL	FLASH
1A	<--R---	ϕ1 R	R	7A	<--R---	ϕ7 R	R
	<--Y---	ϕ1 Y			<--Y---	ϕ7 Y	
(SB LT)	<--G---	ϕ1 G		(EB LT)	<--G---	ϕ7 G	
1B	<--R---	ϕ1 R	R	7B	<--R---	ϕ7 R	R
	<--Y---	ϕ1 Y			<--Y---	ϕ7 Y	
(SB LT)	<--G---	ϕ1 G		(EB LT)	<--G---	ϕ7 G	
6A	R	ϕ6 R	R	4A	R	ϕ4 R	R
	Y	ϕ6 Y			Y	ϕ4 Y	
(SB)	G	ϕ6 G		(EB)	G	ϕ4 G	
6B	R	ϕ6 R	R	4B	R	ϕ4 R	R
	Y	ϕ6 Y			Y	ϕ4 Y	
(SB)	G	ϕ6 G		(EB)	G	ϕ4 G	
2A	R	ϕ2 R	R	PEDESTRIAN MOVEMENTS			
	Y	ϕ2 Y		PED A	W	ϕ2 PED / LS 2P G	OUT
(NB)	G	ϕ2 G			DW	ϕ2 PED / LS 2P R	
2B	R	ϕ2 R	R	PED B	W	ϕ6 PED / LS 6P G	OUT
	Y	ϕ2 Y			DW	ϕ6 PED / LS 6P R	
(NB)	G	ϕ2 G		OVERLAPS			
2C	R	ϕ2 R	R	-	-	-	-
	Y	ϕ2 Y			-	-	
(NB)	G	ϕ2 G		-	-	-	-
LS = LOAD SWITCH					-	-	

LEGEND

- TRAFFIC SIGNAL, 2 UNIT, 3 UNIT, OR PHB HEAD 12"
- TRAFFIC SIGNAL, 3 UNIT HEAD, 12" WITH ARROWS
- PEDESTRIAN SIGNAL
- PEDESTRIAN PUSH BUTTON
- STOP LINE RADAR DETECTION UNIT
- 3C — SIGNAL CABLE, 3 CONDUCTOR, NO. 14 AWG
- 5C — SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG
- 7C — SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG
- RC — RADAR DETECTION CABLE
- INT — INTERCONNECT CABLE
- SC — SERVICE CABLE, 3 CONDUCTOR, NO. 6 AWG
- PC — POWER CABLE, 2 CONDUCTOR, NO. 6 AWG
- POWER SOURCE
- SP 1 — SIGNAL SUPPORT POLE NO. __
- MB — METER BASE
- DS — SIGNAL DISCONNECT SWITCH
- UPS — UNINTERRUPTIBLE POWER SUPPLY CABLE

CALCULATED JRB
CHECKED EMS

TRAFFIC SIGNAL PLAN DETAIL
PLAINFIELD RD & SR 126 RAMPS

HAM-PLAINFIELD RD
ROUNDABOUTS

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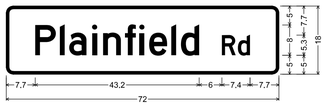
STREETNAME SIGNS



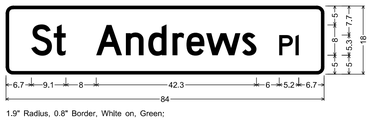
1.9" Radius, 0.8" Border, White on, Green;
"Plainfield", D 2K; "Rd", D 2K;

POLE MOUNTED
D3-1
18" X 72"
SN1, SN3



1.9" Radius, 0.8" Border, White on, Green;
"Georgetown", D 2K; "Rd", D 2K;

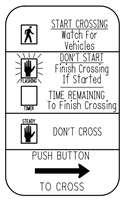
POLE MOUNTED
D3-1
18" X 84"
SN2



1.9" Radius, 0.8" Border, White on, Green;
"St Andrews", D 2K; "Pl", D 2K;

POLE MOUNTED
D3-1
18" X 84"
SN 4

PEDESTRIAN SIGNS



R10-3E-9
2 - LEFT ARROWS
2 - RIGHT ARROWS



R9-3-18

POLE MOUNTED
SN5, SN6

OVERHEAD SIGNS



R3-5L-36

SN8, SN10



R10-12-30

SN7, SN9

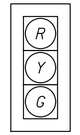
SIGNAL HEADS

PEDESTRIAN HEADS
(LED, COUNTDOWN, TYPE D2)

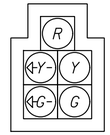


P2A, P2B
P6A, P6B
P8A, P8B

VEHICULAR SIGNAL HEADS
(12" LENS, LED, YELLOW, W/ REFLECTIVE BACKPLATES)



2A, 4A, 4B,
6A, 8A, 8B



1A, 5A

CONDUIT TABLE

A 3" PVC CONDUIT
W/ (1)-7/C, (1)-5/C
IN TRENCH (5')

B 4" GALV. CONDUIT
W/ (2)-7/C, (3)-5/C, (1)-3/C
W/ (1)-DETECTION CABLE
BORE (80')

C 3" PVC CONDUIT
W/ (2)-7/C, (3)-5/C, (1)-3/C
W/ (1)-DETECTION CABLE
(2) 4" MULTICELL CONDUIT
W/ TRACER WIRE FOR
FUTURE INTERCONNECT
IN TRENCH (41')

D 4" PVC CONDUIT
W/ (4)-7/C, (6)-5/C, (2)-3/C
W/ (4)-DETECTION CABLE
(2) 4" MULTICELL CONDUIT
W/ TRACER WIRE FOR
FUTURE INTERCONNECT
IN TRENCH (6')

E 4" GALV. CONDUIT
W/ (1)-7/C, (2)-5/C, (1)-3/C
W/ (1)-DETECTION CABLE
(2) 4" MULTICELL CONDUIT
W/ TRACER WIRE FOR
FUTURE INTERCONNECT
BORE (60')

F 3" PVC CONDUIT
W/ (1)-7C, (1)-5/C
W/ (1)-DETECTION CABLE
IN TRENCH (17')

G 2" PVC CONDUIT
W/ (1)-5C, (1)-3C
IN TRENCH (10')

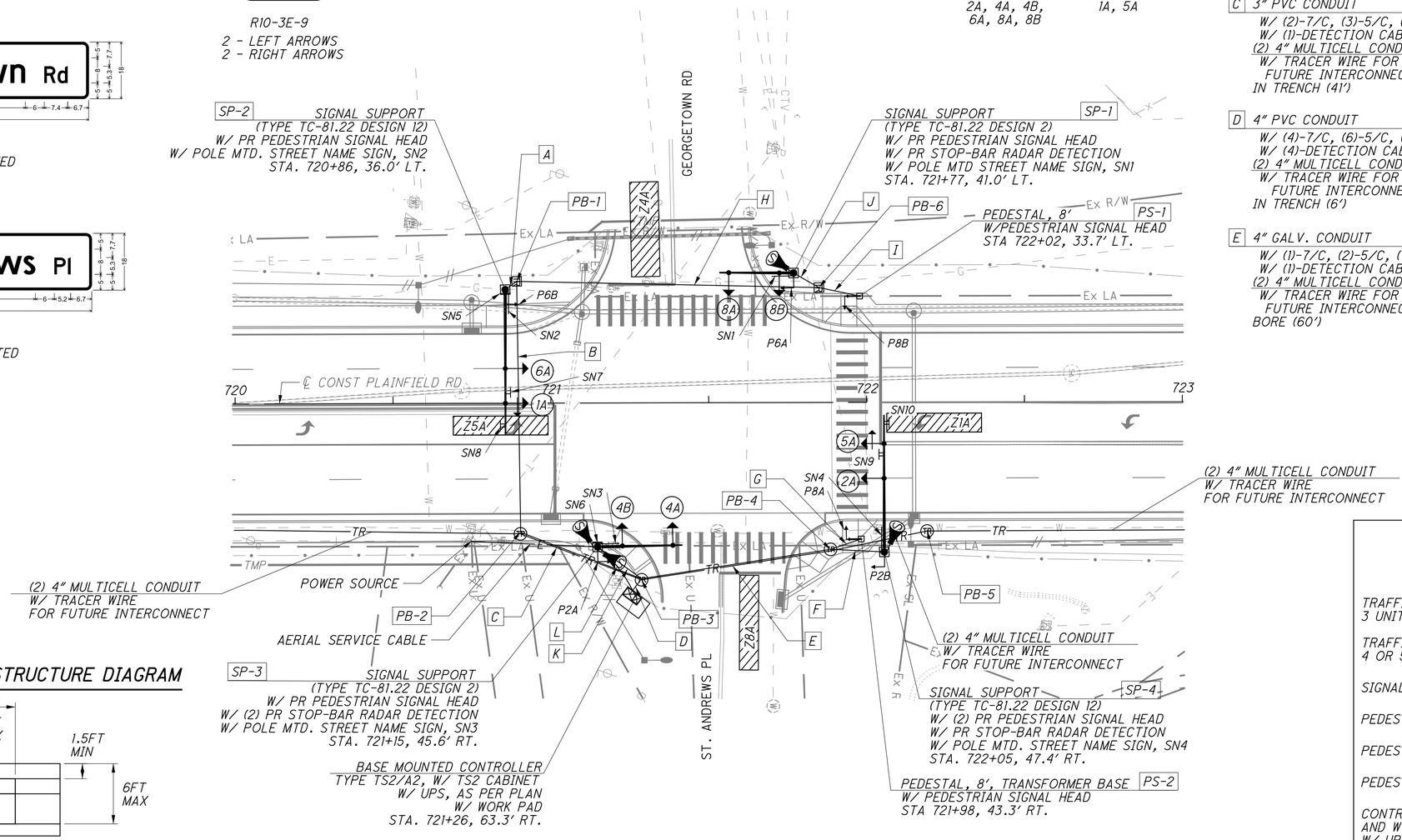
H 4" GALV. CONDUIT
W/ (1)-7/C, (2)-5/C, (1)-3C
W/ DETECTION CABLE
BORE (96')

I 2" PVC CONDUIT
W/ (1)-7/C, (1)-3/C
IN TRENCH (13')

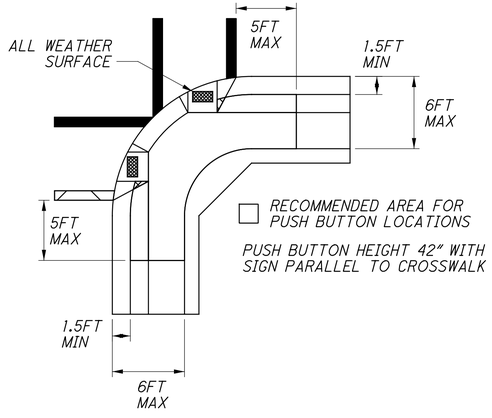
J 3" PVC CONDUIT
W/ (1)-7/C, (1)-5/C
W/ (1)-DETECTION CABLE
IN TRENCH (9')

K 3" PVC CONDUIT
W/ (1)-7/C, (1)-5/C
W/ (2)-DETECTION CABLE
IN TRENCH (17')

L 2" PVC CONDUIT
W/ POWER CABLE
IN TRENCH (21')



ADA PUSHBUTTON & STRUCTURE DIAGRAM



PULLBOX TABLE

PULL BOX#	STATION	SIDE	OFFSET	SIZE (IN.)
PB-1	720+89.3	LT	38.6	24
PB-2	720+90.3	RT	40.9	32
PB-3	721+28.6	RT	56.0	48
PB-4	721+88.5	RT	46.6	32
PB-5	722+19.1	RT	40.8	32
PB-6	721+85.0	LT	36.4	24

LEGEND

	PROP	EXIST
TRAFFIC SIGNAL, 3 UNIT HEAD, 12"	●→	○→
TRAFFIC SIGNAL, 4 OR 5 UNIT HEAD, 12"	●→	○→
SIGNAL SUPPORT POLE	■	□
PEDESTRIAN SIGNAL	⌐↓	⌐↓
PEDESTRIAN PUSH BUTTON	→	→
PEDESTAL SUPPORT	⊡	⊡
CONTROLLER CABINET AND WORK PAD (TS-2) W/ UPS	⊠	⊠
TRAFFIC PULL BOX , 18", 24"	TR	TR
TRAFFIC PULL BOX, 32", 48"	TR	TR
STOP BAR RADAR DETECTION UNIT	S	S
DETECTION ZONE	▨	
SIGNAL CONDUIT	——	----
INTERCONNECT CONDUIT (FUTURE)	-TR-	-TR-

N

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED JRB
CHECKED EMS

TRAFFIC SIGNAL PLAN
PLAINFIELD RD & GEORGETOWN RD
HAM-PLAINFIELD RD ROUNDABOUTS

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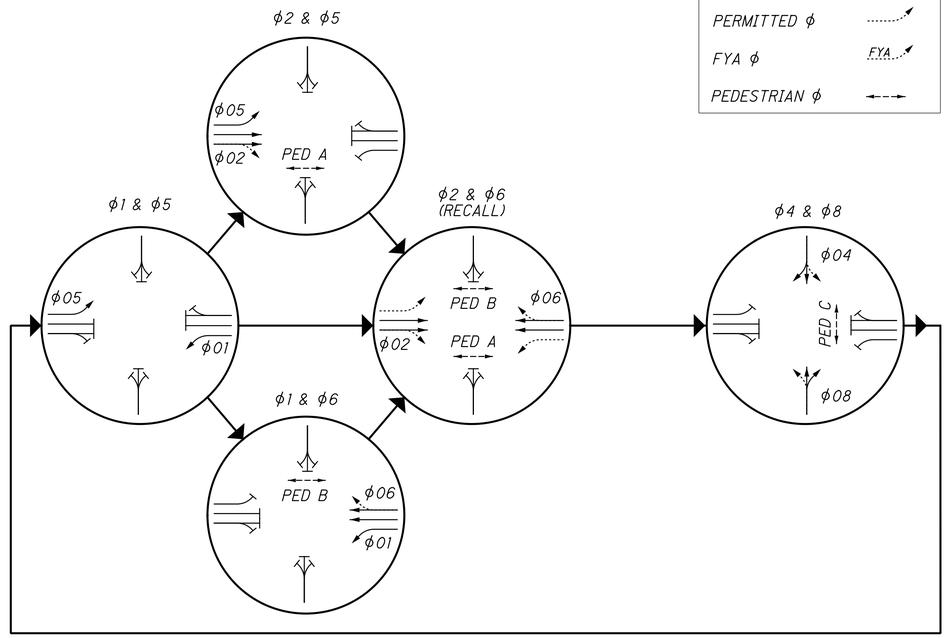
INTERSECTION: PLAINFIELD RD & GEORGETOWN RD MAINTAINING AGENCY: CITY OF BLUE ASH, OH									
START UP			DUAL ENTRY: YES		PHASES:		2&6, 4&8		
			REST IN RED:		RING 1 -		RING 2 -		
START IN: ALL RED			OVERLAP			A	B	C	D
TIME FOR FLASH OR ALL RED: 9 SEC									
FIRST PHASE(S): 2 & 6			PHASES			-	-	-	-
COLOR DISPLAYED: YELLOW									
INTERVAL OR FEATURE			CONTROLLER MOVEMENT NO.						
INTERSECTION MOVEMENT (PHASE)			1	2	3	4	5	6	7	8
DIRECTION			SB LT	NB	-	EB	NB LT	SB	-	WB
MINIMUM GREEN (INITIAL)		(SEC.)	7	10	-	7	7	10	-	7
ADDED INITIAL		*(SEC./ACTUATION)	-	-	-	-	-	-	-	-
MAXIMUM INITIAL		(SEC.)	-	-	-	-	-	-	-	-
PASSAGE TIME (PRESET GAP)		(SEC.)	-	-	-	-	-	-	-	-
TIME BEFORE REDUCTION		*(SEC.)	-	-	-	-	-	-	-	-
MINIMUM GAP		*(SEC.)	-	-	-	-	-	-	-	-
TIME TO REDUCE		*(SEC.)	-	-	-	-	-	-	-	-
MAXIMUM GREEN I		(SEC.)	-	-	-	-	-	-	-	-
MAXIMUM GREEN II		(SEC.)	-	-	-	-	-	-	-	-
YELLOW CHANGE		(SEC.)	3.5	4.5	-	4	3.5	4.5	-	4
ALL RED CLEARANCE		(SEC.)	1.4	1	-	1.1	1.4	1	-	1.1
WALK		(SEC.)	-	8	-	-	-	9	-	10
PEDESTRIAN CLEARANCE		(SEC.)	-	11	-	-	-	19	-	15
RECALL	MAXIMUM	(ON/OFF)	-	-	-	-	-	-	-	-
	MINIMUM	(ON/OFF)	-	ON	-	-	-	ON	-	-
	PEDESTRIAN	(ON/OFF)	-	ON	-	-	-	ON	-	-
MEMORY		(ON/OFF)	-	-	-	-	-	-	-	-

*VOLUME DENSITY CONTROLS

PHASING DIAGRAM



RADAR DETECTION CHART

DETECTION ZONE	MOVEMENT	PULSE OR PRESENCE	ASSOCIATED PHASE	DELAY PROGRAMMED IN CONTROLLER (SEC.)	EXTENSION PROGRAMMED IN CONTROLLER (SEC.)	DELAY INHIBITED PHASE	PURPOSE	DETECTION ZONE LENGTH (FT)
Z1A	SB LT	PRESENCE	1				STOP-LINE	30
Z4A	EB LT/RT	PRESENCE	4				STOP-LINE	30
Z5A	NB LT	PRESENCE	5				STOP-LINE	30
Z8A	WB LT/RT	PRESENCE	8				STOP-LINE	30

Purpose: Stop-Line or Advance Detection

CALCULATED JRB
CHECKED EMS

TRAFFIC SIGNAL PLAN DETAIL
PLAINFIELD RD & GEORGETOWN RD

HAM-PLAINFIELD RD ROUNDABOUTS

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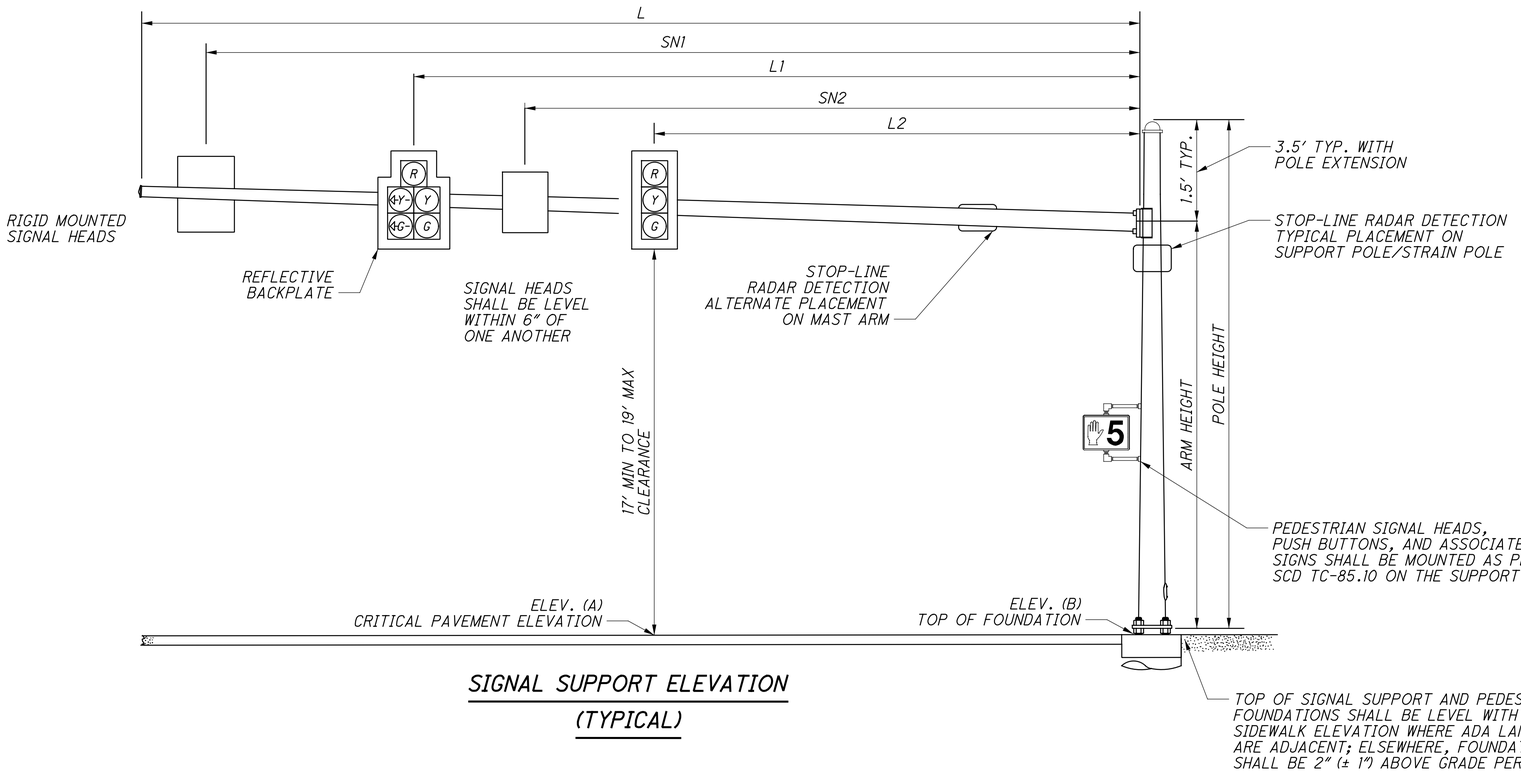
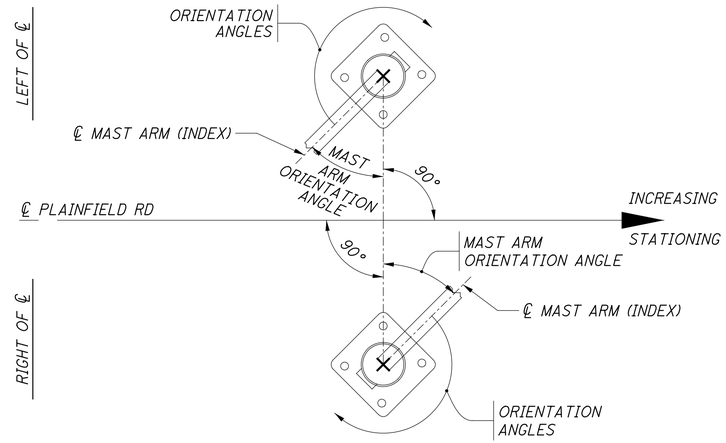


SIGNAL SUPPORT ELEVATION (TYPICAL)



POLE ORIENTATION

MAST ARM TABLE

SUPPORT NO.	STATION	OFFSET	ELEVATION		SIGNAL SUPPORT DETAILS								ORIENTATION ANGLES FROM MAST ARM							
			A (Pavt. Elev.)	B (Top of Found.)	DESIGN TYPE	DESIGN NO.	POLE HEIGHT	ARM HEIGHT	L	L1	L2	SN1	SN2	MAST ARM A ANGLE	HANDHOLE	PEDESTRIAN SIGNAL	PEDESTRIAN PUSHBUTTON	POWER SERVICE	SIGNAL CABINET	BRACKET ARM	CABLE ENTRANCE 12" FROM TOP
							FT	FT	FT	FT	FT	FT	FT	DEG	DEG	DEG	DEG	DEG	DEG	DEG	DEG
SP-1	721+77	41.0' LT	815.33	815.50	TC 81.22	2	22.5	21	23	20	4	-	-	90	180	270	-	-	-	-	-
SP-2	720+86	36.0' LT	820.32	820.49	TC 81.22	12	21	19.5	45	35.5	24.5	42.5	32	0	180	0	-	-	-	-	-
SP-3	721+15	45.6' RT	819.19	819.36	TC 81.22	2	20.5	19	26.5	31.5	20.5	-	-	90	90	90	-	180	-	-	180
SP-4	722+05	47.4' RT	815.84	816.01	TC 81.22	12	21	19.5	43	34	23	40.5	30.5	0	180	0	-	-	-	-	-
PS-1	722+02	33.7' LT			PEDESTAL		8	-	-	-	-	-	-	-	180	90	90					
PS-2	721+98	43.3' RT			PEDESTAL		8	-	-	-	-	-	-	-	180	270	270					

CALCULATED JRB
CHECKED EMS

TRAFFIC SIGNAL PLAN DETAIL
PLAINFIELD RD & GEORGETOWN RD

HAM-PLAINFIELD RD ROUNDABOUTS

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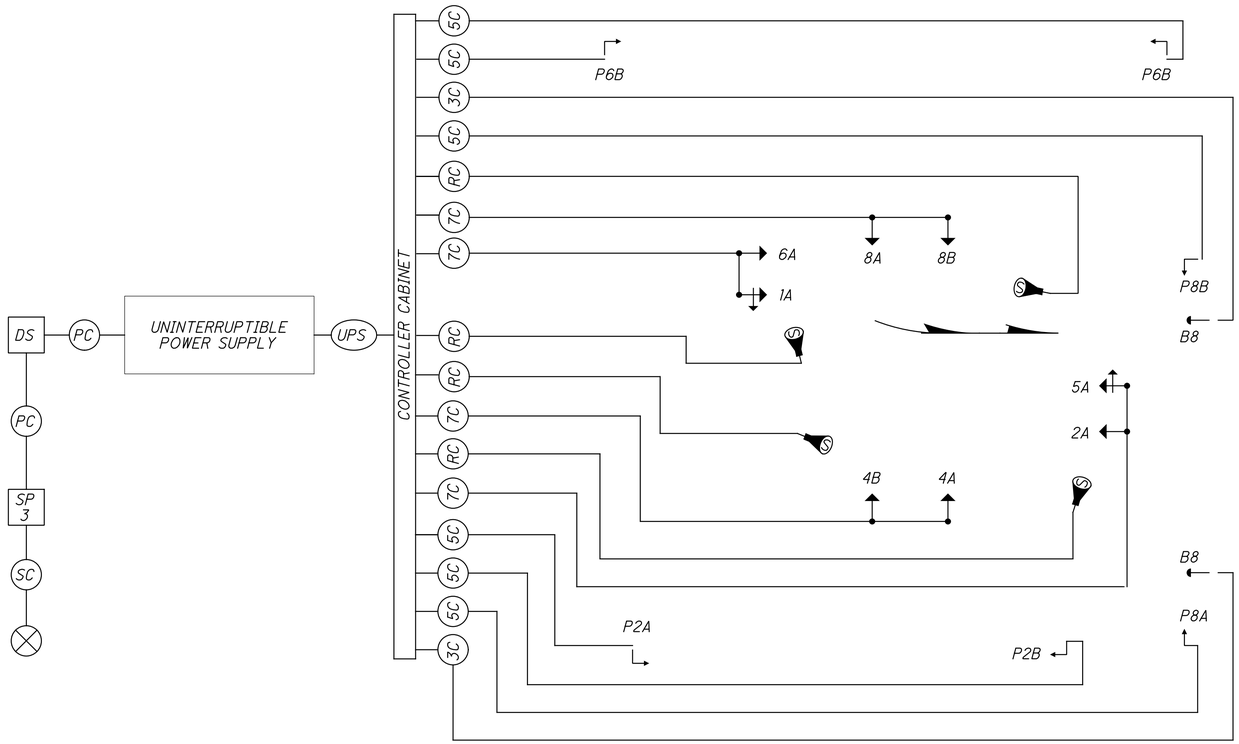
WIRING DIAGRAM



FIELD WIRING HOOK-UP CHART

SIGNAL HEAD	INDICATION	FIELD TERMINAL	FLASH	SIGNAL HEAD	INDICATION	FIELD TERMINAL	FLASH
1A	R	6R	R	4A	R	4R	R
	Y	6Y			Y	4Y	
	G	6G		(EB)	G	4G	
(SB LT)	<--Y---	1Y		4B	R	4R	R
	<--G---	1G			Y	4Y	
6A	R	6R	R	(EB)	G	4G	
	Y	6Y		8B	R	8R	R
(SB)	G	6G			Y	8Y	
5A	R	2R	R	(WB)	G	8G	
	Y	2Y		8B	R	8R	R
	G	2G			Y	8Y	
(NB LT)	<--Y---	5Y		(WB)	G	8G	
	<--G---	5G		PEDESTRIAN MOVEMENTS			
2A	R	2R	R	PED A	W	2 PED/LS 2P G	OUT
	Y	2Y		EAST	DW	2 PED/LS 2P R	
(NB)	G	2G		PED B	W	6 PED/LS 6P G	OUT
LS = LOAD SWITCH				WEST	DW	6 PED/LS 6P R	
				PED C	W	8 PED/LS 8P G	OUT
				NORTH	DW	8 PED/LS 8P G	

LEGEND

	5 SECTION VEHICULAR SIGNAL HEAD, 1-WAY	3C	SIGNAL CABLE, 3 CONDUCTOR, NO. 14 AWG
	3 SECTION VEHICULAR SIGNAL HEAD, 1-WAY	5C	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG
	PEDESTRIAN SIGNAL HEAD	7C	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG
	PEDESTRIAN PUSH BUTTON	RC	RADAR DETECTION CABLE
S	STOP BAR RADAR DETECTION UNIT		POWER SOURCE
UPS	UNINTERRUPTIBLE POWER SUPPLY CABLE	SC	SERVICE CABLE, 3 CONDUCTOR, NO. 6 AWG
SP 1	SIGNAL SUPPORT POLE NO. __	PC	POWER CABLE, 2 CONDUCTOR, NO. 6 AWG

CALCULATED JRB
CHECKED EMS

TRAFFIC SIGNAL PLAN DETAIL
PLAINFIELD RD & GEORGETOWN RD

HAM-PLAINFIELD RD ROUNDABOUTS

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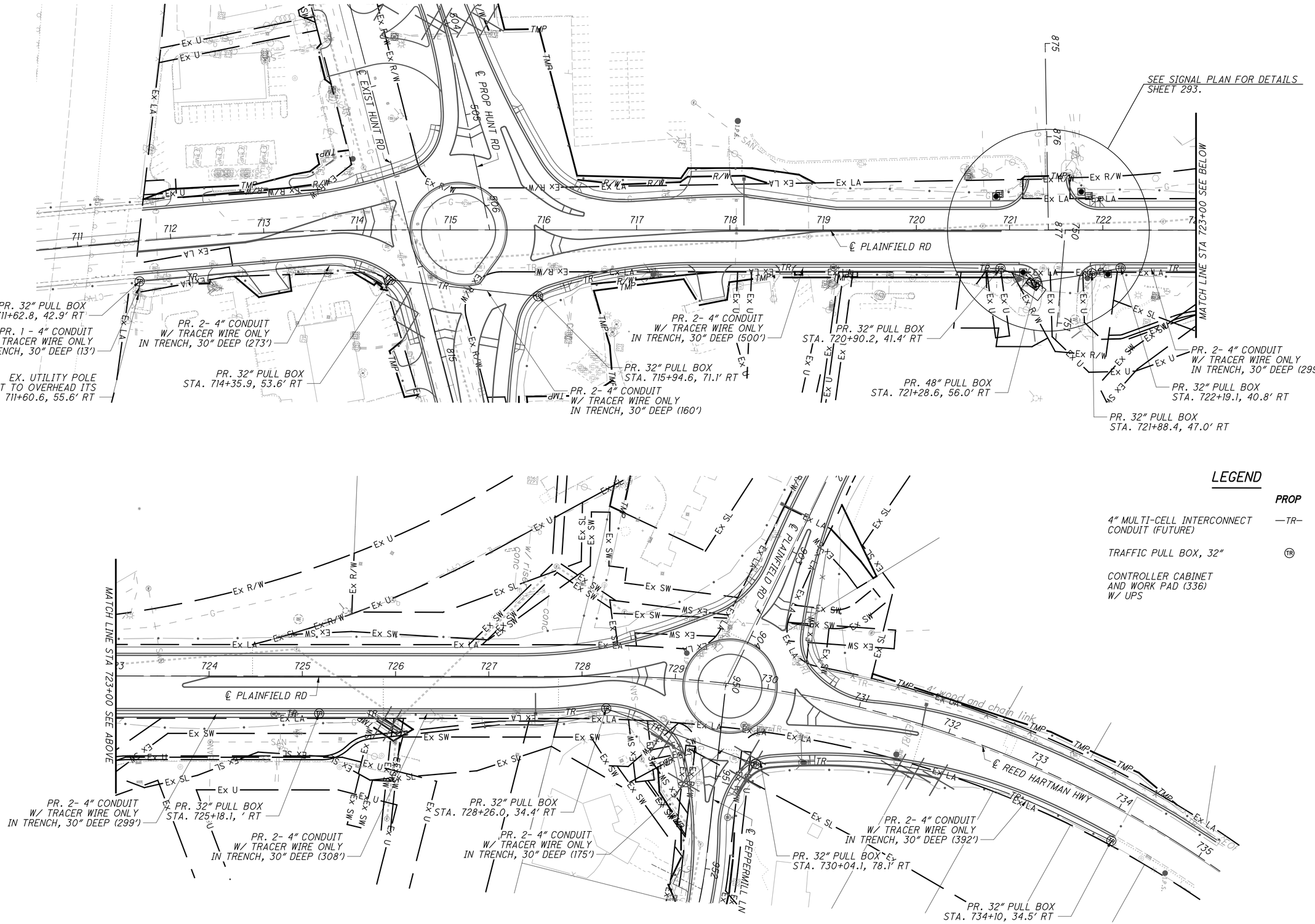

LEGEND

	PROP	EXIST
4" MULTI-CELL INTERCONNECT CONDUIT (FUTURE)	—TR—	-TR-
TRAFFIC PULL BOX, 32"	TR	TR
CONTROLLER CABINET AND WORK PAD (336) W/ UPS		

HORIZONTAL SCALE IN FEET
0 25 50 100

CALCULATED EMS
CHECKED POC

INTERCONNECT PLAN - PLAINFIELD RD
STA. 711+50.00 TO STA. 734+10.00

HAM-PLAINFIELD RD ROUNDABOUTS

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ITEM 630 SIGNING, MISC.: RECTANGULAR RAPID FLASHING BEACON (RRFB) ASSEMBLY

RECTANGULAR RAPID FLASHING BEACONS SHALL MEET THE CONDITIONS OF INTERIM APPROVAL 21 DATED MARCH 20, 2018 BY FEDERAL HIGHWAY ADMINISTRAION FOR MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

EACH RRFB UNIT SHALL CONSIST OF TWO RAPIDLY FLASHED RECTANGULAR-SHAPED YELLOW INDICATIONS WITH AN LED-ARRAY-BASED LIGHT SOURCE. EACH RRFB SHALL BE INSTALLED IN CONJUNCTION WITH POST-MOUNTED W11-2 (PEDESTRIAN) WARNING SIGN WITH A DIAGONAL DOWNWARD ARROW (W16-7P) PLAQUE. RRFB ASSEMBLIES SHALL BE PEDESTRIAN ACTUATED AND INSTALLED IMMEDIATELY ADJACENT TO THE MARKED CROSSWALK AS SHOWN IN THE PLANS.

SIGN/BEACON ASSEMBLY LOCATIONS:

A) FOR ANY APPROACH ON WHICH RRFBS ARE USED TO SUPPLEMENT POST-MOUNTED SIGNS, AT LEAST TWO W11-2 CROSSING WARNING SIGNS (EACH WITH AN RRFB UNIT AND A W16-7P PLAQUE) SHALL BE INSTALLED AT THE CROSSWALK, ONE ON THE RIGHT-HAND SIDE OF THE ROADWAY AND ONE ON THE LEFT-HAND SIDE OF THE ROADWAY. ON A DIVIDED HIGHWAY, THE LEFT-HAND SIDE ASSEMBLY SHOULD BE INSTALLED ON THE MEDIAN, IF PRACTICAL, RATHER THAN ON THE FAR LEFT-HAND SIDE OF THE HIGHWAY.

B) AN RRFB UNIT SHALL NOT BE INSTALLED INDEPENDENT OF OF THE CROSSING WARNING SIGNS FOR THE APPROACH THAT THE RRFB FACES. IF THE RRFB UNIT IS SUPPLEMENTING A POST-MOUNTED SIGN, THE RRFB UNIT SHALL BE INSTALLED ON THE SAME SUPPORT AS THE ASSOCIATED W11-2, S1-1, OR W11-15 CROSSING WARNING SIGN AND PLAQUE. IF THE RRFB UNIT IS SUPPLEMENTING AN OVERHEAD-MOUNTED SIGN, THE RRFB UNIT SHALL BE MOUNTED DIRECTLY BELOW THE BOTTOM OF THE SIGN.

BEACON DIMENSIONS AND PLACEMENT IN THE SIGN ASSEMBLY:

A) EACH RRFB SHALL CONSIST OF TWO RECTANGULAR-SHAPED YELLOW INDICATIONS, EACH WITH AN LED-ARRAY-BASED LIGHT SOURCE. THE SIZE OF EACH RRFB INDICATION SHALL BE AT LEAST 5 INCHES WIDE BY AT LEAST 2 INCHES HIGH.

B) THE TWO RRFB INDICATIONS FOR EACH RRFB UNIT SHALL BE ALIGNED HORIZONTALLY, WITH THE LONGER DIMENSION HORIZONTAL AND WITH A MINIMUM SPACE BETWEEN THE TWO INDICATIONS OF AT LEAST 7 INCHES, MEASURED FROM THE NEAREST EDGE OF ONE INDICATION TO THE NEAREST EDGE OF THE OTHER INDICATION.

C) THE OUTSIDE EDGES OF THE RRFB INDICATIONS, INCLUDING ANY HOUSINGS, SHALL NOT PROJECT BEYOND THE OUTSIDE EDGES OF THE W11-2, S1-1, OR W11-15 SIGN THAT IT SUPPLEMENTS.

D) AS A SPECIFIC EXCEPTION TO PARAGRAPH 5 OF SECTION 4L.01 OF THE 2009 MUTCD, THE RRFB UNIT ASSOCIATED WITH A POST-MOUNTED SIGN AND PLAQUE MAY BE LOCATED BETWEEN AND IMMEDIATELY ADJACENT TO THE BOTTOM OF THE CROSSING WARNING SIGN AND THE TOP OF THE SUPPLEMENTAL DOWNWARD DIAGONAL ARROW PLAQUE (OR, IN THE CASE OF A SUPPLEMENTAL ADVANCE SIGN, THE AHEAD OR DISTANCE PLAQUE) OR WITHIN 12 INCHES ABOVE THE CROSSING WARNING SIGN, RATHER THAN THE RECOMMENDED MINIMUM OF 12 INCHES ABOVE OR BELOW THE SIGN ASSEMBLY.

BEACON FLASHING REQUIREMENTS:

A) WHEN ACTUATED, THE TWO YELLOW INDICATIONS IN EACH RRFB UNIT SHALL FLASH IN A RAPIDLY FLASHING SEQUENCE.

B) AS A SPECIFIC EXCEPTION TO THE REQUIREMENTS FOR THE FLASH RATE OF BEACONS PROVIDED IN PARAGRAPH 3 OF SECTION 4L.01, RRFBS SHALL USE A MUCH FASTER FLASH RATE AND SHALL PROVIDE 75 FLASHING SEQUENCES PER MINUTE. EXCEPT AS PROVIDED IN CONDITION 5F BELOW, DURING EACH 800-MILLISECOND FLASHING SEQUENCE, THE LEFT AND RIGHT RRFB INDICATIONS SHALL OPERATE USING THE FOLLOWING SEQUENCE:

- THE RRFB INDICATION ON THE LEFT-HAND SIDE SHALL BE ILLUMINATED FOR APPROXIMATELY 50 MILLISECONDS. (BOTH RRFB INDICATIONS SHALL BE DARK FOR APPROXIMATELY 50 MILLISECONDS.)
- THE RRFB INDICATION ON THE RIGHT-HAND SIDE SHALL BE ILLUMINATED FOR APPROXIMATELY 50 MILLISECONDS. (BOTH RRFB INDICATIONS SHALL BE DARK FOR APPROXIMATELY 50 MILLISECONDS.)
- THE RRFB INDICATION ON THE LEFT-HAND SIDE SHALL BE ILLUMINATED FOR APPROXIMATELY 50 MILLISECONDS. (BOTH RRFB INDICATIONS SHALL BE DARK FOR APPROXIMATELY 50 MILLISECONDS.)
- THE RRFB INDICATION ON THE RIGHT-HAND SIDE SHALL BE ILLUMINATED FOR APPROXIMATELY 50 MILLISECONDS. (BOTH RRFB INDICATIONS SHALL BE DARK FOR APPROXIMATELY 50 MILLISECONDS.)
- BOTH RRFB INDICATIONS SHALL BE ILLUMINATED FOR APPROXIMATELY 50 MILLISECONDS. (BOTH RRFB INDICATIONS SHALL BE DARK FOR APPROXIMATELY 50 MILLISECONDS.)
- BOTH RRFB INDICATIONS SHALL BE ILLUMINATED FOR APPROXIMATELY 50 MILLISECONDS. (BOTH RRFB INDICATIONS SHALL BE DARK FOR APPROXIMATELY 250 MILLISECONDS.)

C) THE FLASH RATE OF EACH INDIVIDUAL RRFB INDICATION, AS APPLIED OVER THE FULL FLASHING SEQUENCE, SHALL NOT BE BETWEEN 5 AND 30 FLASHES PER SECOND TO AVOID FREQUENCIES THAT MIGHT CAUSE SEIZURES.

D) THE LIGHT INTENSITY OF THE YELLOW INDICATIONS DURING DAYTIME CONDITIONS SHALL MEET THE MINIMUM SPECIFICATIONS FOR CLASS 1 YELLOW PEAK LUMINOUS INTENSITY IN THE SOCIETY OF AUTOMOTIVE ENGINEERS (SAE) STANDARD J595 (DIRECTIONAL FLASHING OPTICAL WARNING DEVICES FOR AUTHORIZED EMERGENCY, MAINTENANCE, AND SERVICE VEHICLES) DATED JANUARY 2005.

E) TO MINIMIZE EXCESSIVE GLARE DURING NIGHTTIME CONDITIONS, AN AUTOMATIC SIGNAL DIMMING DEVICE SHOULD BE USED TO REDUCE THE BRILLIANCE OF THE RRFB INDICATIONS DURING NIGHTTIME CONDITIONS.

F) EXISTING RRFB UNITS THAT USE THE FLASHING SEQUENCE THAT WAS SPECIFIED IN THE INTERIM APPROVAL 11 MEMORANDUM AND A SUBSEQUENT INTERPRETATION (THE RRFB INDICATION ON THE LEFT-HAND SIDE EMITS TWO SLOW PULSES OF LIGHT AFTER WHICH THE RRFB INDICATION ON THE RIGHT-HAND SIDE EMITS FOUR RAPID PULSES OF LIGHT FOLLOWED BY ONE LONG PULSE OF LIGHT) SHOULD BE REPROGRAMMED TO THE FLASH PATTERN SPECIFIED ABOVE IN CONDITION 5B AS PART OF A SYSTEMATIC UPGRADING PROCESS, SUCH AS WHEN THE UNITS ARE SERVICED OR WHEN THE EXISTING SIGNS ARE REPLACED.

BEACON OPERATION:

A) THE RRFB SHALL BE NORMALLY DARK, SHALL INITIATE OPERATION ONLY UPON PEDESTRIAN ACTUATION, AND SHALL CEASE OPERATION AT A PREDETERMINED TIME AFTER THE PEDESTRIAN ACTUATION OR, WITH PASSIVE DETECTION, AFTER THE PEDESTRIAN CLEARS THE CROSSWALK.

B) ALL RRFB UNITS ASSOCIATED WITH A GIVEN CROSSWALK (INCLUDING THOSE WITH AN ADVANCE CROSSING SIGN, IF USED) SHALL, WHEN ACTUATED, SIMULTANEOUSLY COMMENCE OPERATION OF THEIR RAPID-FLASHING INDICATIONS AND SHALL CEASE OPERATION SIMULTANEOUSLY.

C) IF PEDESTRIAN PUSHBUTTON DETECTORS (RATHER THAN PASSIVE DETECTION) ARE USED TO ACTUATE THE RRFB INDICATIONS, A PUSH BUTTON TO TURN ON WARNING LIGHTS (R10-25) SIGN SHALL BE INSTALLED EXPLAINING THE PURPOSE AND USE OF THE PEDESTRIAN PUSHBUTTON DETECTOR.

D) THE DURATION OF A PREDETERMINED PERIOD OF OPERATION OF THE RRFBS FOLLOWING EACH ACTUATION SHOULD BE BASED ON THE PROCEDURES PROVIDED IN SECTION 4E.06 OF THE 2009 MUTCD FOR THE TIMING OF PEDESTRIAN CLEARANCE TIMES FOR PEDESTRIAN SIGNALS.

E) THE PREDETERMINED FLASH PERIOD SHALL BE IMMEDIATELY INITIATED EACH AND EVERY TIME THAT A PEDESTRIAN IS DETECTED EITHER THROUGH PASSIVE DETECTION OR AS A RESULT OF A PEDESTRIAN PRESSING A PUSHBUTTON DETECTOR, INCLUDING WHEN PEDESTRIANS ARE DETECTED WHILE THE RRFBS ARE ALREADY FLASHING AND WHEN PEDESTRIANS ARE DETECTED IMMEDIATELY AFTER THE RRFBS HAVE CEASED FLASHING.

F) A SMALL PILOT LIGHT MAY BE INSTALLED INTEGRAL TO THE RRFB OR PEDESTRIAN PUSHBUTTON DETECTOR TO GIVE CONFIRMATION THAT THE RRFB IS IN OPERATION.

ACCESSIBLE PEDESTRIAN FEATURES:

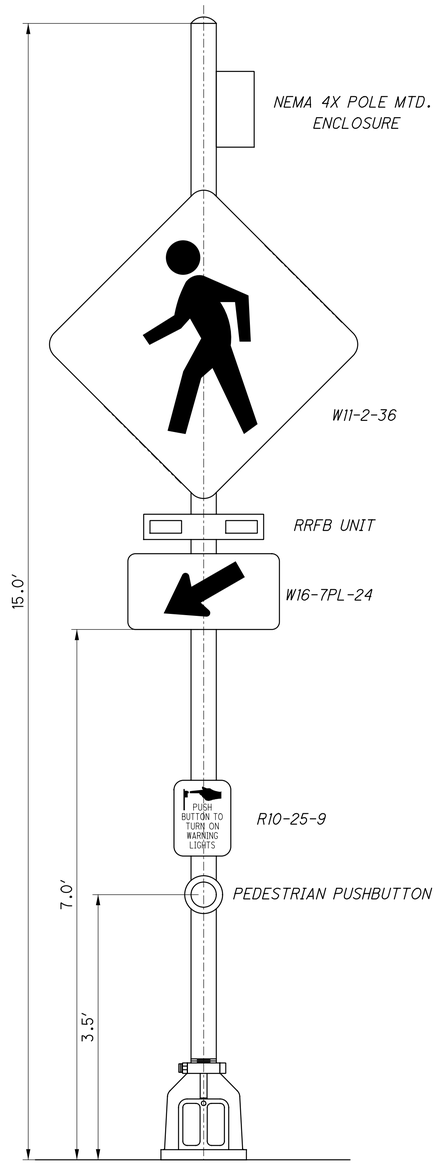
A) IF A SPEECH PUSHBUTTON INFORMATION MESSAGE IS USED IN CONJUNCTION WITH AN RRFB, A LOCATOR TONE SHALL BE PROVIDED.

B) IF A SPEECH PUSHBUTTON INFORMATION MESSAGE IS USED IN CONJUNCTION WITH AN RRFB, THE AUDIBLE INFORMATION DEVICE SHALL NOT USE VIBROTACTILE INDICATIONS OR PERCUSSIVE INDICATIONS.

C) IF A SPEECH PUSHBUTTON INFORMATION MESSAGE IS USED IN CONJUNCTION WITH AN RRFB, THE MESSAGE SHOULD SAY, "YELLOW LIGHTS ARE FLASHING." THE MESSAGE SHOULD BE SPOKEN TWICE.

CONTROLLER CABINET
NEMA 4X LOCAKABLE HOUSING FOR AC SUPPLY, WITH MOUNTING BRACKET FOR 4" OD POLE. INTERNAL SPACE PROVIDED FOR USER-SUPPLIED PUSHBUTTON CONTROLLER OR OTHER ELECTRONIC MODULES UP TO 5"W X 7"H X 1"D.

EACH RRFB ASSEMBLY SHALL INCLUDE RRFB UNITS FACING EACH DIRECTION OF ON-COMING TRAFFIC. UNIT ASSEMBLIES SHALL INCLUDE THE PEDESTAL SUPPORT, PEDESTRIAN PUSHBUTTONS, SIGNS, RRFB UNITS, CONTROL CABINET, WIRING, AND ALL NECESSARY CONNECTIONS AND ACCESSORIES. PAYMENT FOR "MISC.: RECTANGULAR RAPID FLASHING BEACON (RRFB) SIGN ASSEMBLY" SHALL BE MADE PER EACH ASSEMBLY COMPLETE.



RECTANGULAR RAPID FLASHING BEACON ASSEMBLY (TYPICAL)

CALCULATED EMS CHECKED JS

RRFB ASSEMBLY NOTES

HAM-PLAINFIELD RD ROUNDABOUTS

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SHEET NO.	STATION FROM	STATION TO	SIDE	REFERNCE NUMBER	625 CONDUIT, 2", 725.05	625 CONDUIT, JACKED OR DRILLED, 725.04, 2"	625 TRENCH, 24" DEEP	625 PULL BOX, 725.06, SIZE 1.5	625 GROUND ROD	630 SIGNING, MISC.: RECTANGULAR RAPID FLASHING BEACON (RRFB) SIGN ASSEMBLY	632 PEDESTRIAN PUSHBUTTON	632 SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG	632 PEDESTAL FOUNDATION	632 POWER CABLE, 2 CONDUCTOR, NO. 8 AWG	632 PEDESTAL, 5', TRANSFORMER BASE	NOTES
	FROM	TO			FT	FT	FT	EACH	EACH	EACH	EACH	FT	EACH	FT	EACH	
	EX. HUNT ROAD - CKT A2															
303	800+19.4	800+16.1	RT		10		10							20		**
303	800+16.1		RT	PB-1A				1								**
303	800+16.1	800+00.0	R-L			64								69		**
303	800+00.0		LT	PB-2A				1								**
303	800+00.0	6+13.5	LT		76		76							81		**
	KROGER ENTRANCE - CKT A2															**
303	6+13.5		LT	CCA-N1					1	1		20	1	15		**
303	6+13.5	6+11.8	LT			20						25				**
303	6+11.8		LT	CCA-N2					1	1		20	1			**
303	6+11.8	5+92.4	L-R		20		20					25				**
303	5+92.4		RT	CCA-N3					1	1		20	1			**
303	5+92.4	5+97.9	RT			21						26				**
303	5+97.9		RT	CCA-N4					1	1		20	1			**
	HUNT ROAD - CKT C															
304	504+78.5	504+95.3	R-R		35		35							180		
304	504+95.3		RT	PB-3A				1								
304	504+95.3	505+03.3	R-R		9		9							14		
304	505+03.3		RT	CCC-W1					1	1		20	1	20		
304	504+95.3	505+11.8	R-R			28						33		66		
	505+11.8		RT	CCC-W2					1	1		40	1	15		
	505+11.8	505+23.8	R-L		22		22					27		54		
	505+23.8		LT	CCC-W3					1	1		40	1			
	505+23.8	505+09.1	L-L			48						53		106		
	505+09.1		LT	CCA-W4					1	1		20	1			
	PLAINFIELD RD - CKT C															
	(HUNT) 505+09.1	716+32.9	L-L		100		100					105		210		
	716+32.9		LT	CCA-N2					1		1	20	1		1	
	716+32.9	716+42.8	L-L		12		12					34		34		
	716+42.8		LT	CCA-N1					1	1		20	1	20		
	716+42.8	716+32.5	L-L			25						30		30		
	**100% LOCAL FUNDING SPLIT CARRIED TO SHEET 302				106	105	106	2	4	4	0	156	4	185	0	
	SUBTOTALS CARRIED TO SHEET 302				284	206	284	3	10	9	1	598	10	934	1	

CALCULATED EMS
CHECKED HRS

RRFB SUBSUMMARY

HAM-PLAINFIELD RD
ROUNDABOUTS

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SHEET NO.	STATION FROM	STATION TO	SIDE	REFERNCE NUMBER	625 CONDUIT, 2", 725.05	625 CONDUIT, JACKED OR DRILLED, 725.04, 2"	625 TRENCH, 24" DEEP	625 PULL BOX, 725.06, SIZE 1.5	625 GROUND ROD	630 SIGNING, MISC.: RECTANGULAR RAPID FLASHING BEACON (RRFB) SIGN ASSEMBLY	632 PEDESTRIAN PUSHBUTTON	632 SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG	632 PEDESTAL FOUNDATION	632 POWER CABLE, 2 CONDUCTOR, NO. 8 AWG	632 PEDESTAL, 5', TRANSFORMER BASE	NOTES
					FT	FT	FT	EACH	EACH	EACH	EACH	FT	EACH	FT	EACH	
	PLAINFIELD RD - CKT C															
	716+32.5		LT	CCC-N3					1	1		20	1			
	716+32.5	716+20.1	L-R			35						40		40		
	716+20.1		RT	CCC-N4					1	1		40	1			
	716+20.1	716+09.1	R-R		17		17					22		22		
	716+09.1		RT	CCC-N5					1	1		40	1			
	716+09.1	716+21.7	R-R			40						45		45		
	716+21.7		RT	CCC-N6					1	1		20	1			
	EX. HUNT ROAD - CKT C															
	(PLAINFILED) 716+21.7	815+13.8	R-L		204		204							209		
	815+13.8		LT	CCC-E1					1	1		20	1	20		
	815+13.8	815+04.8	L-L			28						33				
	815+04.8		LT	CCC-E2					1	1		40	1			
	815+04.8	814+99.4	L-L		13		13					18				
	814+99.4		LT	CCC-E3					1	1		40	1			
	814+99.4	814+84.4	L-L			34						39				
	814+84.4		LT	CCC-E4					1	1		20	1			
304	814+84.4	814+70.4	L-L		18		18					23				
304	814+70.4		LT	CCC-E5					1	1		40	1			
304	814+70.4	814+72.3	L-R			28						33				
304	814+72.3		RT	CCC-E6					1	1		40	1			
	PLAINFIELD RD - CKT C															
304	(HUNT) 504+95.3	714+07.1	L-L		115		115							125		
304	714+07.1		LT	CCC-S1					1	1		20	1	20		
304	714+07.1	714+18.1	L-L			40						45				
304	714+18.1		LT	CCC-S2					1	1		40	1			
304	714+18.1	714+16.1	L-R		22		22					27				
304	714+16.1		RT	CCC-S3					1		1	20	1		1	
304	714+16.1	714+01.4	R-R		15		15					20				
304	714+01.4		LT	CCC-S4					1	1		40	1			
304	714+01.4	713+90.4	R-R			24						29				
304	713+90.4		RT	CCC-S5					1	1		40	1			
304	713+90.4	714+00.3	R-R		15		15					20				
304	714+00.3		RT	CCC-S6					1		1	10	1		1	
**100% LOCAL FUNDING SPLIT CARRIED TO SHEET 302					0	0	0	0	0	0	0	0	0	0	0	
SUBTOTALS CARRIED TO SHEET 302					419	229	419	0	16	14	2	884	16	481	2	

CALCULATED EMS
CHECKED HRS

RRFB SUBSUMMARY

HAM-PLAINFIELD RD ROUNDABOUTS

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SHEET NO.	STATION FROM	STATION TO	SIDE	REFERNCE NUMBER	625 CONDUIT, 2", 725.05	625 CONDUIT, JACKED OR DRILLED, 725.04, 2"	625 TRENCH, 24" DEEP	625 PULL BOX, 725.06, SIZE 1.5	625 GROUND ROD	630 SIGNING, MISC.: RECTANGULAR RAPID FLASHING BEACON (RRFB) SIGN ASSEMBLY	632 PEDESTRIAN PUSHBUTTON	632 SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG	632 PEDESTAL FOUNDATION	632 POWER CABLE, 2 CONDUCTOR, NO. 8 AWG	632 PEDESTAL, 5', TRANSFORMER BASE	NOTES
					FT	FT	FT	EACH	EACH	EACH	EACH	FT	EACH	FT	EACH	
	PLAINFIELD ROAD - CKT D															
305	900+97.9	901+02.0	R-R		7		7							68		
305	901+02.0		RT	PB-4A				1								
305	901+02.0	901+51.3	R-R			55								240		
305	901+51.3		RT	PB-5A				1								
305	901+51.3	903+42.5	R-R		197		197							808		
	903+42.5		RT	PB-6A				1								
	903+42.5	903+49.9	R-L			35						40		40		
	903+49.9		LT	CCD-W2					1	1		40	1			
	903+42.5	903+44.2	R-R		7		7					12		12		
	903+44.2		RT	CCD-W1					1	1		20	1	20		
	903+42.5	728+57.1	R-L		146		146							302		
	728+57.1		LT	CCD-S1					1	1		20	1	20		
	728+57.1	728+69.3	L-L			38						43		43		
	728+69.3		LT	CCD-S2					1	1		40	1			
	728+69.3	728+58.8	L-R		22		22					27		27		
	728+58.8		RT	CCD-S3					1	1		40	1			
	728+58.8	728+50.6	R-R			40						45		45		
	728+50.6		RT	CCD-S4					1	1		20	1			
	728+50.6	(PEPPERMILL) 951+09.5	R-R		22		22							27		
	PEPPERMILL LN - CKT D															
	951+09.5		RT	CCD-E1					1	1		20	1	20		
	951+09.5	951+00.9	R-R			40						45				
	951+00.9		RT	CCD-E2					1	1		40	1			
	951+00.9	951+11.6	R-R			22						27				
	951+11.6		RT	CCD-E3					1	1		40	1			
	951+11.6	951+18.5	R-L			40						45				
	951+18.5		LT	CCD-E4					1	1		20	1			
	PLAINFIELD ROAD - CKT D															
	903+49.9	903+60.3	L-L		14		14					19		19		
	903+60.3		LT	CCD-W3					1	1		40	1			
	903+60.3	903+51.0	L-L			27						32		32		
	903+51.0		LT	CCD-W4					1	1		20	1			
	903+51.0	(REED) 730+71.4	L-L		85		85							90		
	**100% LOCAL FUNDING SPLIT CARRIED TO SHEET 302				0	0	0	0	0	0	0	0	0	0	0	
	SUBTOTALS CARRIED TO SHEET 302				500	297	500	3	12	12	0	695	12	1813	0	

CALCULATED EMS
CHECKED HRS

RRFB SUBSUMMARY

HAM-PLAINFIELD RD
ROUNDABOUTS

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SHEET NO.	STATION FROM	STATION TO	SIDE	REFERNCE NUMBER	625 CONDUIT, 2", 725.05	625 CONDUIT, JACKED OR DRILLED, 725.04, 2"	625 TRENCH, 24" DEEP	625 PULL BOX, 725.06, SIZE 1.5	625 GROUND ROD	630 SIGNING, MISC.: RECTANGULAR RAPID FLASHING BEACON (RRFB) SIGN ASSEMBLY	632 PEDESTRIAN PUSHBUTTON	632 SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG	632 PEDESTAL FOUNDATION	632 POWER CABLE, 2 CONDUCTOR, NO. 8 AWG	632 PEDESTAL, 5', TRANSFORMER BASE	NOTES
					FT	FT	FT	EACH	EACH	EACH	EACH	FT	EACH	FT	EACH	
	REED HARTMAN - CKT D															
	730+71.4		LT	CCD-N1					1	1		20	1	20		
	730+71.4	730+62.8	L-R			37						42				
	730+62.8		LT	CCD-N2					1	1		40	1			
	730+71.4	730+49.1	R-R		14		14					19				
	730+49.1		RT	CCD-N3					1		1	20	1		1	
	730+71.4	730+47.8	R-R		22		22					27				
	730+47.8		RT	CCD-N4					1	1		40	1			
	730+47.8	730+58.7	R-R			40						45				
	730+58.7		RT	CCD-N5					1	1		20	1			

LEGEND

- PROPOSED POWER SERVICE AND CONTROL CENTER (VOLTAGE SPECIFIED IN PLANS)
- PROPOSED RECTANGULAR RAPID FLASHING BEACON (RRFB) ASSEMBLY
- PROPOSED PULL BOX, 12" X 18" (TRAFFIC)
- PROPOSED 2" CONDUIT (725.05), IN TRENCH W/ RRFB WIRING
- PROPOSED 2" CONDUIT (725.04), BORED W/ RRFB WIRING

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED EMS
CHECKED JGM

CCA-N2 PR RRFB ASSEMBLY
15' PEDESTAL
W/ (1) RRFB UNIT
STA. 6+11.8, 00.6' LT

2" CONDUIT, 725.04, BORED (20')

CCA-N1 PR RRFB ASSEMBLY
15' PEDESTAL
W/ CONTROL CABINET
W/ (1) RRFB UNIT
W/(1) PUSHBUTTON
STA. 6+13.5, 20.1' LT

℄ CONST KROGER ENTRANCE

2" CONDUIT (20')

CCA-N3 PR RRFB ASSEMBLY
15' PEDESTAL
W/ (1) RRFB UNIT
STA. 5+92.4, 5.4' RT

2" CONDUIT, 725.04, BORED (21')

2" CONDUIT (76')

PB-2A PR PULL BOX 12"x18" (TRAFFIC)
STA. 800+00, 41.6' LT.

CCA-N4 PR RRFB ASSEMBLY
15' PEDESTAL
W/ (1) RRFB UNIT
W/ (1) PUSHBUTTON
STA. 5+97.9, 25.4' RT

3" CONDUIT, BORED (64')

N 7° 02' 13" W

℄ CONST EXIST HUNT RD

PB-1A PR PULL BOX 13"x24" (TRAFFIC)
STA. 800+16.1, 20.6' RT.

2" CONDUIT (10')

CC-A PR POWER SERVICE &
CONTROL CENTER "A", 120V
SEE LIGHTING PLAN

NOTES:

1. SEE SHEET 306 FOR RRFB WIRING DETAILS.
2. SEE SHEET 324 FOR LIGHTING WIRING AND CONTROL CENTER DATA DETAILS.

ROUNDABOUT RRFB LAYOUT
HUNT RD AT KROGER ENTRANCE

HAM-PLAINFIELD RD
ROUNDABOUTS

303
335

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CCC-N3 PR RRFB ASSEMBLY
15' PEDESTAL
W/ (1) RRFB UNIT
STA. 716+32.5, 19.1' LT

CCC-N1 PR RRFB ASSEMBLY
15' PEDESTAL
W/ CONTROL CABINET
W/ (1) RRFB UNIT
STA. 716+42.8, 41.7' LT

2" CONDUIT, 725.04, BORED (25')

2" CONDUIT (12')

CCC-N2 PR 5' PEDESTAL
W/ PUSHBTTON
STA. 716+32.9, 47.6' LT

2" CONDUIT, 725.04, BORED (35')

PR RRFB ASSEMBLY
15' PEDESTAL
W/ (1) RRFB UNIT
W/ (1) PUSHBUTTON
STA. 716+20.1, 11.9' RT
CCC-N4

2" CONDUIT (17')

PR RRFB ASSEMBLY
15' PEDESTAL
W/ (1) RRFB UNIT
W/ (1) PUSHBUTTON
STA. 716+09.1, 24.2' RT
CCC-N5

2" CONDUIT, 725.04, BORED (40')

PR RRFB ASSEMBLY
15' PEDESTAL
W/ (1) RRFB UNIT
W/ (1) PUSHBUTTON
STA. 716+21.7, 61.2' RT
CCC-N6

CCC-W4 PR RRFB ASSEMBLY
15' PEDESTAL
W/ (1) RRFB UNIT
W/ (1) PUSHBUTTON
STA. 505+09.1, 57.0' LT

2" CONDUIT (100')

2" CONDUIT, 725.04, BORED (48')

CCC-W3 PR RRFB ASSEMBLY
15' PEDESTAL
W/ (1) RRFB UNIT
W/ (1) PUSHBUTTON
STA. 505+23.8, 11.2' LT

2" CONDUIT (204')

PR RRFB ASSEMBLY
15' PEDESTAL
W/ CONTROL CABINET
W/ (1) RRFB UNIT
W/ (1) PUSHBUTTON
STA. 815+13.8, 83.6' LT
CCC-E1

2" CONDUIT (22')

2" CONDUIT, 725.04, BORED (28')

CCC-W2 PR RRFB ASSEMBLY
15' PEDESTAL
W/ (1) RRFB UNIT
W/ (1) PUSHBUTTON
STA. 505+11.8, 7.3' RT

PR RRFB ASSEMBLY
15' PEDESTAL
W/ (1) RRFB UNIT
STA. 815+04.8, 57.5' LT
CCC-E2

2" CONDUIT (13')

2" CONDUIT, 725.04, BORED (28')

PB-3A PR PULL BOX 13"x24" (TRAFFIC)
STA. 504+95.3, 30.1' RT.

PR RRFB ASSEMBLY
15' PEDESTAL
W/ (1) RRFB UNIT
STA. 814+99.4, 45.9' LT
CCC-E3

2" CONDUIT (9')

2" CONDUIT, 725.04, BORED (34')

CCC-W1 PR RRFB ASSEMBLY
15' PEDESTAL
W/ CONTROL CABINET
W/ (1) RRFB UNIT
W/ (1) PUSHBUTTON
STA. 505+03.3, 34.3' RT

PR RRFB ASSEMBLY
15' PEDESTAL
W/ (1) RRFB UNIT
W/ (1) PUSHBUTTON
STA. 814+84.4, 15.2' LT
CCC-E4

2" CONDUIT (35')

2" CONDUIT (18')

CC-C PR POWER SERVICE &
CONTROL CENTER "C", 120V
(SEE LIGHTING PLANS)

2" CONDUIT (115')

PR RRFB ASSEMBLY
15' PEDESTAL
W/ (1) RRFB UNIT
W/ (1) PUSHBUTTON
STA. 814+70.4, 4.4' LT
CCC-E5

2" CONDUIT, 725.04, BORED (28')

PR 5' PEDESTAL
W/ PUSHBTTON
STA. 714+16.1, 4.5' RT
CCC-S3

2" CONDUIT (15')

PR 5' PEDESTAL
W/ PUSHBTTON
STA. 714+00.3, 44.0' RT
CCC-S6

PR RRFB ASSEMBLY
15' PEDESTAL
W/ (1) RRFB UNIT
W/ (1) PUSHBUTTON
STA. 814+72.3, 23.1' RT
CCC-E6

2" CONDUIT (15')

PR RRFB ASSEMBLY
15' PEDESTAL
W/ (1) RRFB UNIT
STA. 713+90.4, 33.1' RT
CCC-S5

CCC-S1 PR RRFB ASSEMBLY
15' PEDESTAL
W/ CONTROL CABINET
W/ (1) RRFB UNIT
W/ (1) PUSHBUTTON
STA. 714+07.1, 55.7' LT

2" CONDUIT, 725.04, BORED (40')

CCC-S2 PR RRFB ASSEMBLY
15' PEDESTAL
W/ (1) RRFB UNIT
W/ (1) PUSHBUTTON
STA. 714+18.1, 17.7' LT

2" CONDUIT (22')

CCC-S4 PR RRFB ASSEMBLY
15' PEDESTAL
W/ (1) RRFB UNIT
STA. 714+01.4, 1.5' RT

2" CONDUIT, 725.04, BORED (34')

℄ CONST PROP HUNT RD

℄ CONST PLAINFIELD RD

℄ CONST EXIST HUNT RD

505 506 715 716 714 812 813 814 815

N 72° 35' 35" E

N 69° 51' 54" E

LA-R/W Ex R/W TMP TR-M

LEGEND

- ▲ PROPOSED POWER SERVICE AND CONTROL CENTER (VOLTAGE SPECIFIED IN PLANS)
- PROPOSED RECTANGULAR RAPID FLASHING BEACON (RRFB) ASSEMBLY
- PROPOSED PULL BOX, 12" X 18" (TRAFFIC)
- PROPOSED 2" CONDUIT (725.05), IN TRENCH W/ RRFB WIRING
- PROPOSED 2" CONDUIT (725.04), BORED W/ RRFB WIRING

NOTES:

1. SEE SHEET 306 FOR RRFB WIRING DETAILS.
2. SEE SHEET 324 FOR LIGHTING WIRING AND CONTROL CENTER DATA DETAILS.

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED EMS
CHECKED JGM

ROUNDABOUT RRFB LAYOUT
HUNT RD AT PLAINFIELD RD

HAM-PLAINFIELD RD ROUNDABOUTS

304
335

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PR PULL BOX 13"x24" (TRAFFIC)
STA. 901+51.3, 31.4' RT. PB-5A

2" CONDUIT (197')

CCD-W4 PR RRFB ASSEMBLY
15' PEDESTAL
W/ (1) RRFB UNIT
W/ (1) PUSHBUTTON
STA. 903+51.0, 46.4' LT

2" CONDUIT, 725.04, BORED (27')

CCD-W3 PR RRFB ASSEMBLY
15' PEDESTAL
W/ (1) RRFB UNIT
W/ (1) PUSHBUTTON
STA. 903+60.3, 21.4' LT

2" CONDUIT (14')

2" CONDUIT, 725.04,
BORED (55')

PR PULL BOX 13"x24" (TRAFFIC)
STA. 901+02.0, 44.4' RT. PB-4A

2" CONDUIT (7')

PR POWER SERVICE &
CONTROL CENTER "D", 120V
(SEE LIGHTING PLANS) CC-D

CCD-W2 PR RRFB ASSEMBLY
15' PEDESTAL
W/ (1) RRFB UNIT
W/ (1) PUSHBUTTON
STA. 903+49.9, 11.7' LT

2" CONDUIT, 725.04, BORED (35')

PB-6A PR PULL BOX 13"x24" (TRAFFIC)
STA. 903+42.5, 22.9' RT.

2" CONDUIT (7')

CCD-W1 PR RRFB ASSEMBLY
15' PEDESTAL
W/ CONTROL CABINET
W/ (1) RRFB UNIT
W/ (1) PUSHBUTTON
STA. 903+44.2, 25.1' RT

2" CONDUIT (146')

CCD-S2 PR RRFB ASSEMBLY
15' PEDESTAL
W/ (1) RRFB UNIT
W/ (1) PUSHBUTTON
STA. 728+69.3, 8.6' LT

2" CONDUIT, 725.04, BORED (38')

CCD-S1 PR RRFB ASSEMBLY
15' PEDESTAL
W/ CONTROL CABINET
W/ (1) RRFB UNIT
W/ (1) PUSHBUTTON
STA. 728+57.1, 44.4' LT

2" CONDUIT (22')

CCD-S3 PR RRFB ASSEMBLY
15' PEDESTAL
W/ (1) RRFB UNIT
W/ (1) PUSHBUTTON
STA. 728+58.8, 3.8' RT

CCD-N1 PR RRFB ASSEMBLY
15' PEDESTAL
W/ CONTROL CABINET
W/ (1) RRFB UNIT
W/ (1) PUSHBUTTON
STA. 730+71.4, 18.6' LT

2" CONDUIT (85')

2" CONDUIT, 725.04, BORED (37')

PR RRFB ASSEMBLY CCDN2
15' PEDESTAL
W/ CONTROL CABINET
W/ (1) RRFB UNIT
STA. 730+62.8, 17.2' RT

2" CONDUIT (14')

PR 5' PEDESTAL CCD-N3
W/ (1) PUSHBUTTON
STA. 730+49.1, 13.4' RT

2" CONDUIT (22')

PR RRFB ASSEMBLY CCD-N4
15' PEDESTAL
W/ (1) RRFB UNIT
W/ (1) PUSHBUTTON
STA. 730+47.8, 27.4' RT

PR RRFB ASSEMBLY CCD-N5
15' PEDESTAL
W/ (1) RRFB UNIT
W/ (1) PUSHBUTTON
STA. 730+58.7, 66.3' RT

2" CONDUIT, 725.04, BORED (40')

PR RRFB ASSEMBLY CCD-E4
15' PEDESTAL
W/ (1) RRFB UNIT
W/ (1) PUSHBUTTON
STA. 951+18.5, 20.5' LT

2" CONDUIT, 725.04,
BORED (40')

PR RRFB ASSEMBLY CCD-E3
15' PEDESTAL
W/ (1) RRFB UNIT
W/ (1) PUSHBUTTON
STA. 951+11.6, 4.9' RT

2" CONDUIT (22')

PR RRFB ASSEMBLY CCD-E2
15' PEDESTAL
W/ (1) RRFB UNIT
W/ (1) PUSHBUTTON
STA. 951+00.9, 9.8' RT

2" CONDUIT, 725.04, BORED (40')

2" CONDUIT (22')

PR RRFB ASSEMBLY CCD-E1
15' PEDESTAL
W/ (1) RRFB UNIT
W/ (1) PUSHBUTTON
STA. 951+09.5, 34.2' RT

PR RRFB ASSEMBLY CCD-S4
15' PEDESTAL
W/ (1) RRFB UNIT
W/ (1) PUSHBUTTON
STA. 728+50.6, 38.9' RT

2" CONDUIT, 725.04, BORED (40')

℄ CONST REED HARTMAN HWY

℄ CONST PLAINFIELD RD

℄ CONST PEPPERMILL LN

LEGEND

- ▲ PROPOSED POWER SERVICE AND CONTROL CENTER (VOLTAGE SPECIFIED IN PLANS)
- PROPOSED RECTANGULAR RAPID FLASHING BEACON (RRFB) ASSEMBLY
- PROPOSED PULL BOX, 12" X 18" (TRAFFIC)
- PROPOSED 2" CONDUIT (725.05), IN TRENCH W/ RRFB WIRING
- PROPOSED 2" CONDUIT (725.04), BORED W/ RRFB WIRING

NOTES:

1. SEE SHEET 306 FOR RRFB WIRING DETAILS.
2. SEE SHEET 324 FOR LIGHTING WIRING AND CONTROL CENTER DATA DETAILS.

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED EMS
CHECKED JGM

ROUNDABOUT RRFB LAYOUT
PLAINFIELD RD AT PEPPERMILL LN

HAM-PLAINFIELD RD ROUNDABOUTS

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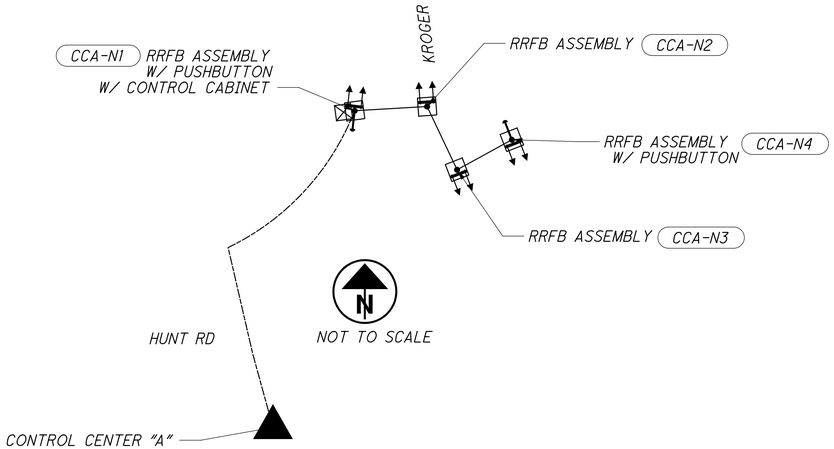
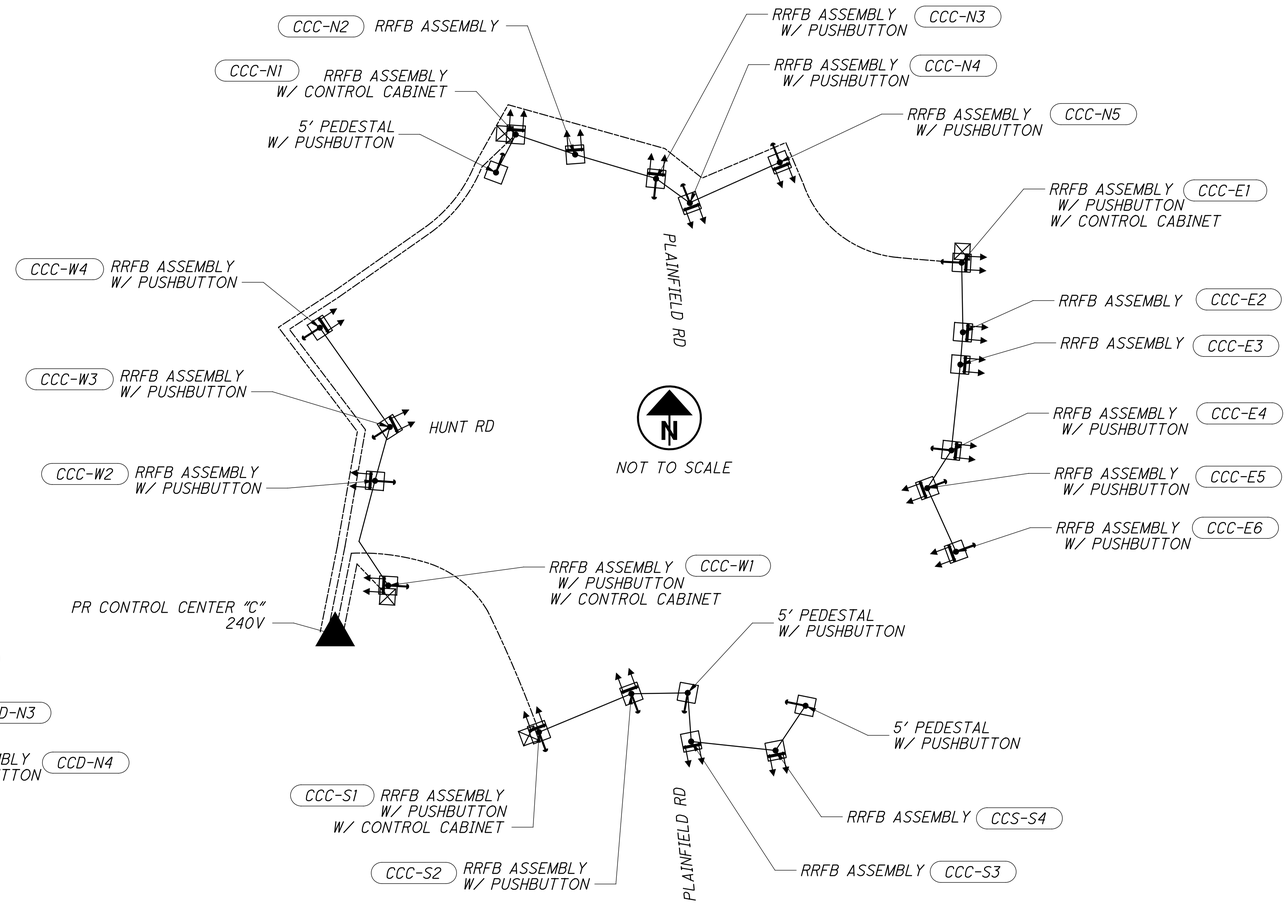
RRFB WIRING DIAGRAM

CONTROL CENTER A
HUNT RD. AT KROGER



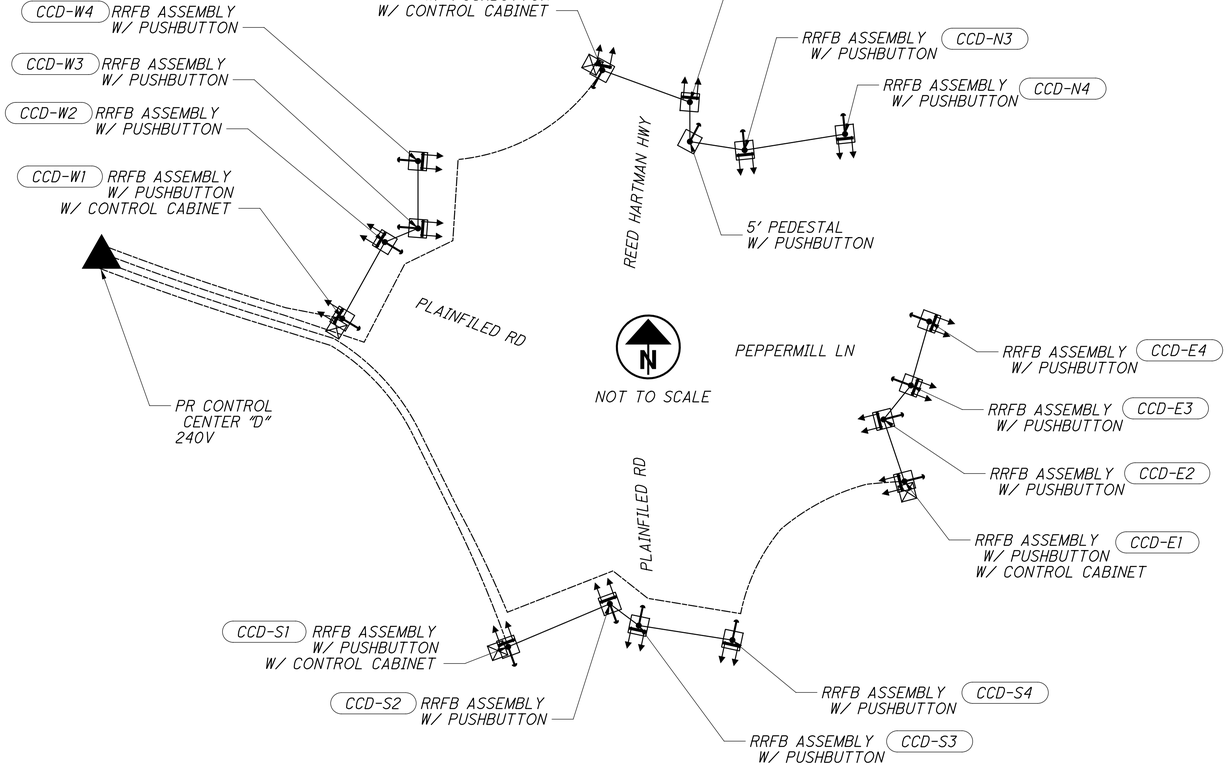
RRFB WIRING DIAGRAM

CONTROL CENTER C
HUNT RD. AT PLAINFIELD RD.



RRFB WIRING DIAGRAM

CONTROL CENTER D
PLAINFIELD RD. AT REED HARTMAN/PEPPERMILL



LEGEND

	RECTANGULAR RAPID FLASHING BEACON (RRFB)
	PEDESTAL SUPPORT W/ TRANSFORMER BASE, 15' (UNLESS OTHERWISE NOTED)
	PEDESTRIAN PUSH BUTTON W/ SIGN
	CONTROL CABINET
———	7C #14 SIGNAL CABLE
- - - - - - -	2C #8 POWER CABLE
CCC-S2	RRFB ID NUMBER

CALCULATED EMS
CHECKED JS

RRFB WIRING DETAILS

HAM-PLAINFIELD RD ROUNDABOUTS

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625, LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF ODOT'S CONSTRUCTION AND MATERIAL SPECIFICATIONS, LUMINAIRES FOR CONVENTIONAL LIGHTING UNITS SHALL MEET DUKE ENERGY STANDARDS AND AS FOLLOWS:

LUMINAIRES SHALL BE AUTOBAHN LED LUMINAIRES BY AMERICAN ELECTRIC LIGHTING WITH TYPE III PHOTOMETRIC DISTRIBUTION AND A 4000K COLOR TEMPERATURE. LUMINAIRES SHALL BE ONE OF THE FOLLOWING UNITS AS INDICATED IN THE PLANS.

- 105W LUMINAIRES WITH 12,750 LUMEN OUTPUT SHALL HAVE PHOTOMETRIC DISTRIBUTION "ATB0-30LEDE10-MVOLT-R3-4K.IES"

- 145W LUMINAIRES WITH 16,200 LUMEN OUTPUT SHALL HAVE PHOTOMETRIC DISTRIBUTION "ATB0-30LEDE15-MVOLT-R3-4K.IES"

- 165W LUMINAIRES WITH 21,350 LUMEN OUTPUT SHALL HAVE PHOTOMETRIC DISTRIBUTION "ATB2-60LEDE85-MVOLT-R3-4K.IES"

PAYMENT WILL BE MADE AT THE UNIT PRICE BID UNDER CM&S ITEM 625, "LUMINAIRE, CONVENTIONAL SOLID STATE (LED), AS PER PLAN" FOR EACH LUMINAIRE WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS, AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

625, POWER SERVICE, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF THE SPECIFICATIONS, THE FOLLOWING IS ADDED.

THE POWER SUPPLYING AGENCY FOR THIS PROJECT IS:

POWER COMPANY DUKE ENERGY

ADDRESS 139 E. 4th STREET, ROOM 467A,
CINCINNATI, OHIO 45202

PHONE # _____

CONTACT NAME JACK GARDNER

THE ENGINEER SHALL ENSURE THAT EACH POWER SERVICE ELECTRICAL ENERGY ACCOUNT IS IN THE NAME OF AND THAT THE BILLING ADDRESS IS TO THE MAINTAINING AGENCY NOTED IN THE PLANS. THIS SHALL BE DONE NOT ONLY FOR EACH NEW POWER SERVICE ESTABLISHED BY THIS PROJECT BUT ALSO FOR EACH EXISTING POWER SERVICE, SINCE THERE MAY BE A REASSIGNMENT OF THE RESPONSIBILITY FOR AN EXISTING SERVICE AS A RESULT OF THE WORK PERFORMED BY THIS PROJECT.

PAYMENT WILL BE MADE AT THE UNIT BID PRICE FOR EACH C&MS ITEM 625, "POWER SERVICE, AS PER PLAN" WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

PADLOCKS AND KEYS

PADLOCKS FURNISHED SHALL BE EITHER BRASS OR BRONZE, EQUAL TO MASTER NO. 4BKA OR WILSON BOHANNAN 660A, AND SHALL BE KEYED IN ACCORDANCE WITH C&MS 631.06. PAYMENT SHALL BE INCLUDED IN THE BID FOR THE ITEM(S) BEING LOCKED.

CALCULATED EMS
CHECKED HRS

LIGHTING NOTES

HAM-PLAINFIELD RD
ROUNDABOUTS

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SHEET NO.	STATION FROM	STATION TO	SIDE	REFERNCE NUMBER	625 CONNECTION, FUSED PULL APART EACH	625 CONNECTION, UNFUSED PULL APART EACH	625 CONNECTION, UNFUSED PERMANENT EACH	625 TRANSFORMER BASE, TYPE AT-A EACH	625 LIGHT POLE, CONVENTIONAL (40') EACH	625 LIGHT POLE, CONVENTIONAL (30') EACH	625 LIGHT POLE FOUNDATION, 24" X 8' DEEP EACH	625 BRACKET ARM, 8' EACH	625 NO. 4 AWG 600 VOLT DISTRIBUTION CABLE FT	625 NO. 10 AWG POLE AND BRACKET CABLE FT	625 CONDUIT, 2", 725.05 FT	625 CONDUIT, JACKED OR DRILLED, 725.04, 3" FT	625 LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN (105W - 12,750 LUMENS) EACH	625 LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN (145W - 16,200 LUMENS) EACH	625 LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN (165W - 21,350 LUMENS) EACH	625 TRENCH, 24" DEEP FT	625 PULL BOX, 725.06, SIZE 4 EACH	625 GROUND ROD EACH	625 POWER SERVICE, AS PER PLAN EACH	NOTES
314	HUNT RD - CKT 'A'																						**
	CONTROL CENTER "A"		R	CC-A																		1	1	**
	800+19.4	800+17.5	R-R	CC-A - PB-1									48		11					11				**
	800+17.5			PB-1			6														1			**
	800+17.5	799+70.5	R-R	PB-1 - A1									159		48					48				**
	799+70.5		R	A1	2	1		1	1		1	1		106			1					1		**
	800+17.5	801+30.8	R-R	PB-1 - A1									393		126					126				**
	801+30.8		R	A2	2	1		1	1		1	1		106			1					1		**
	800+17.5	800+02.7	L-R	PB-1 - PB-2									198			61								**
	800+02.7		L	PB-2																	1			**
	800+02.7	800+66.4	L-L	PB-2 - A2									210		65					65				**
	800+66.4		L	A3	2	1		1	1		1	1		106			1					1		**
	800+66.4	6+16.2	L-L	A2 - PB-3									243		76					76				**
	6+16.2		L	PB-3			3														1			**
	6+16.2	6+27.9	L-L	PB-3 - A4									54		13					13				**
	6+27.9		L	A4	2	1		1	1		1	1		106			1					1		**
	6+27.9	6+13.9	L-R	PB-3 - PB-4									165			50								**
	6+13.9		R	PB-4																	1			**
	6+13.9	5+63.5	R-R	PB-4 - A5									183		56					56				**
	5+63.5		R	A5	2	1		1	1		1	1		106			1					1		**
	5+63.5	802+75.2	R-L	A5 - A6									255		80					80				**
	802+75.2		L	A6	2	1		1	1		1	1		106			1					1		**
	802+75.2	804+00	L-L	A6 - A7									387		124					124				**
	804+00		L	A7	2	1		1	1		1	1		106			1					1		**
	804+00	804+36.5	L-L	A7 - PB-5									132		39					39				**
	804+36.5		L	PB-5																	1			**
315	804+36.5	805+06.0	L-L	PB-5 - PB-6									222		69					69				
	805+06.0		L	PB-6			3														1			
	805+06.0	804+99.2	L-L	PB-6 - A8									63		16					16				
	804+99.2		L	A8	2	1		1	1		1	1		106			1					1		
	805+06.0	806+18.3	L	PB-6 - A9									360		115					115				
	806+18.3		L	A9	2	1		1	1		1	1		106				1				1		
	806+18.3	500+59.5	L-L	A8 - A10									642		209					209				
	500+59.5		L	A10	2	1		1	1		1	1		106				1				1		
	**100% LOCAL FUNDING SPLIT CARRIED TO SHEET 313				14	7	9	7	7	0	7	7	2427	742	638	111	7	0	0	638	5	8	1	
	SUBTOTALS CARRIED TO SHEET 313				20	10	12	10	10	0	10	10	3714	1060	1047	111	8	2	0	1047	6	11	1	

CALCULATED EMS
CHECKED HRS

LIGHTING SUBSUMMARY

HAM-PLAINFIELD RD ROUNDABOUTS

308
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LIGHTING SUBSUMMARY

CALCULATED EMS
CHECKED HRS

SHEET NO.	STATION FROM	STATION TO	SIDE	REFERNCE NUMBER	625 CONNECTION, FUSED PULL APART EACH	625 CONNECTION, UNFUSED PULL APART EACH	625 CONNECTION, UNFUSED PERMANENT EACH	625 TRANSFORMER BASE, TYPE AT-A EACH	625 LIGHT POLE, CONVENTIONAL (40') EACH	625 LIGHT POLE, CONVENTIONAL (30') EACH	625 LIGHT POLE FOUNDATION, 24" X 8' DEEP EACH	625 BRACKET ARM, 8' EACH	625 NO. 4 AWG 600 VOLT DISTRIBUTION CABLE FT	625 NO. 10 AWG POLE AND BRACKET CABLE FT	625 CONDUIT, 2", 725.05 FT	625 CONDUIT, JACKED OR DRILLED, 725.04, 3" FT	625 LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN (105W - 12,750 LUMENS) EACH	625 LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN (145W - 16,200 LUMENS) EACH	625 LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN (165W - 21,350 LUMENS) EACH	625 TRENCH, 24" DEEP FT	625 PULL BOX, 725.06, SIZE 4 EACH	625 GROUND ROD EACH	625 POWER SERVICE, AS PER PLAN EACH	NOTES
	PLAINFIELD - CKT 'C'																							
316	504+78.5		R	CC-C																		1	1	
	504+78.5	504+75.8	R-R	CC-C - PB-7									108		31					31				
	504+75.8		R	PB - 7			6														1			
	504+75.8	504+70.4	R-R	PB-7 - C2									33		6					6				
	504+70.4		R	C2	2	1		1	1		1	1		106				1				1		
	504+75.8	504+85.9	R-L	PB-7 - PB-8									117			34								
	504+85.9		L	PB-8			3														1			
	504+85.9	504+73.6	L-L	PB-8 - PB9									174			53								
	504+73.6		L	PB-9			6														1			
	504+73.6	502+65.2	L-L	PB-9 - C1									681		222					222				
	502+65.2		L-L	C1	2	1		1	1		1	1		106				1				1		
	504+73.6	505+45.3	L-L	PB-9 - C3									240		75					75				
	505+45.3		L-L	C3	2	1		1	1		1	1		106				1				1		
	504+75.8	714+47.6	R-L	PB-7 - C5									249		78					78				
	714+47.6		L	C5	2	1		1	1		1	1		106				1				1		
	714+47.6	713+43.4	L-L	C5 - PB-10									348		111					111				
	713+43.4		L	PB-10			6														1			
	713+43.4	713+45.8	L-L	PB-10 - PB-11									150		45					45				
	713+45.8		L	PB-11			3														1			
	713+45.8	713+48.2	L-R	PB-11 - PB-12									135		40					40				
	713+48.2		R	PB-12			3														1			
	713+48.2	713+72.4	R-R	PB-12 - C7									87		24					24				
	713+72.4		R	C7	2	1		1	1		1	1		106				1				1		
	713+72.4	814+41.3	R-R	C7 - C8									303		96					96				
	814+41.3		R	C8	2	1		1	1		1	1		106				1				1		
317	817+26.9		L	C11	2	1		1	1		1	1		106				1				1		
317	817+26.9	815+43.0	L-L	C11 - C-10									576		187					187				
316	815+43.0		L	C-10	2	1		1	1		1	1		106				1				1		
316	815+43.0	715+97.5	L-L	C-10 - C-9									273		86					86				
316	715+97.5		L	C-9	2	1		1	1		1	1		106				1				1		
	715+97.5	717+05.8	L-R	C-9 - PB-18									864		283					283				
	**100% LOCAL FUNDING SPLIT CARRIED TO SHEET 313				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	SUBTOTALS CARRIED TO SHEET 313				18	9	27	9	9	0	9	9	4338	954	1284	87	0	9	0	1284	6	10	1	

HAM-PLAINFIELD RD
ROUNDABOUTS

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SHEET NO.	STATION FROM	STATION TO	SIDE	REFERNCE NUMBER	625 CONNECTION, FUSED PULL APART EACH	625 CONNECTION, UNFUSED PULL APART EACH	625 CONNECTION, UNFUSED PERMANENT EACH	625 TRANSFORMER BASE, TYPE AT-A EACH	625 LIGHT POLE, CONVENTIONAL (40') EACH	625 LIGHT POLE, CONVENTIONAL (30') EACH	625 LIGHT POLE FOUNDATION, 24" X 8' DEEP EACH	625 BRACKET ARM, 8' EACH	625 NO. 4 AWG 600 VOLT DISTRIBUTION CABLE FT	625 NO. 10 AWG POLE AND BRACKET CABLE FT	625 CONDUIT, 2", 725.05 FT	625 CONDUIT, JACKED OR DRILLED, 725.04, 3" FT	625 LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN (105W - 12,750 LUMENS) EACH	625 LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN (145W - 16,200 LUMENS) EACH	625 LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN (165W - 21,350 LUMENS) EACH	625 TRENCH, 24" DEEP FT	625 PULL BOX, 725.06, SIZE 4 EACH	625 GROUND ROD EACH	625 POWER SERVICE, AS PER PLAN EACH	NOTES
	PLAINFIELD - CKT "B1"																						
318	708+09.8		R	PB-15			3														1		
318	708+09.8	708+05	R-R	PB-15 - B1-14									30		5					5			
318	708+05		R	B1-14	2	1		1	1		1	1		106				1				1	
318	708+09.8	708+13.4	R-L	PB-15 - PB-13									309			98							
318	708+13.4		L	PB-13																	1		
	SR 126 EXIT RAMP - CKT "B1"																						
318	708+13.4 (PLAINFIELD)	507+58.6	R-R	PB-13 - PB-14									219		68					68			
318	507+58.6		R	PB-14			3														1		
318	507+58.6	507+28.5	R	PB-14 - B1-15									120		35					35			
318	507+28.5		R	B1-15	2	1		1	1		1	1		106				1				1	
318	507+58.6	708+13 (PLAINFIELD)	R-L	PB-14 - PB-16									234			73							
	PLAINFIELD - CKT "B1"																						
318	708+13		L	PB-16																	1		
318	708+13	709+80.0	L-L	PB-16 - B1-16									135		40					40			
318	709+80.0		L	B1-16	2	1		1	1		1	1		106					1			1	
	SR 126 ENTRANCE RAMP - CKT "B2"																						
318	600+78.4	601+10.8	L-L	EX PB - B2-1			3						114		33					33			
318	601+10.8		L	B2-1	2	1		1	1		1	1		106				1				1	
318	600+79.4	708+09.8 (PLAINFIELD)	R-R	EX PB - PB-15			3						150		45					45			
	**100% LOCAL FUNDING SPLIT CARRIED TO SHEET 313				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	SUBTOTALS CARRIED TO SHEET 313				8	4	12	4	4	0	4	4	1311	424	226	171	0	3	1	226	4	4	0

CALCULATED EMS
CHECKED HRS

LIGHTING SUBSUMMARY

HAM-PLAINFIELD RD
ROUNDABOUTS

310
335

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LIGHTING SUBSUMMARY

CALCULATED EMS
CHECKED HRS

SHEET NO.	STATION FROM	STATION TO	SIDE	REFERNCE NUMBER	625 CONNECTION, FUSED PULL APART EACH	625 CONNECTION, UNFUSED PULL APART EACH	625 CONNECTION, UNFUSED PERMANENT EACH	625 TRANSFORMER BASE, TYPE AT-A EACH	625 LIGHT POLE, CONVENTIONAL (40') EACH	625 LIGHT POLE, CONVENTIONAL (30') EACH	625 LIGHT POLE FOUNDATION, 24" X 8' DEEP EACH	625 BRACKET ARM, 8' EACH	625 NO. 4 AWG 600 VOLT DISTRIBUTION CABLE FT	625 NO. 10 AWG POLE AND BRACKET CABLE FT	625 CONDUIT, 2", 725.05 FT	625 CONDUIT, JACKED OR DRILLED, 725.04, 3" FT	625 LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN (105W - 12,750 LUMENS) EACH	625 LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN (145W - 16,200 LUMENS) EACH	625 LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN (165W - 21,350 LUMENS) EACH	625 TRENCH, 24" DEEP FT	625 PULL BOX, 725.06, SIZE 4 EACH	625 GROUND ROD EACH	625 POWER SERVICE, AS PER PLAN EACH	NOTES
	PLAINFIELD - CKT 'C'																						
319	716+84.5	505+45.3	L-L	C-4 - C-3									336		107					107			
319	716+84.5		L	C-4	2	1		1	1		1	1		106				1				1	
	716+96.3	716+84.5	L-L	PB-17 - C-4									48		11					11			
319	716+96.3		L	PB-17			3														1		
319	717+05.8	716+96.3	R-L	PB-18 - PB-17									279			88							
319	717+05.8		R	PB-18			3														1		
319	717+05.8	718+73.6	R-R	PB-18 - C-12									519		168					168			
319	718+73.6		R	C-12	2	1		1		1	1	1		86				1				1	
319	718+73.6	721+08.5	R-R	C-12 - PB-21									720		235					235			
319	721+08.5		R	PB-21																	1		
319	721+08.5	750+83.9 (ST. ANDREWS)	R-R	PB-21 - C-14									141		42					42			
319	750+83.9 (ST. ANDREWS)		R	C-14	2	1		1	1		1	1		106			1					1	
319	716+96.3	720+58.2	L-L	PB-17 - C-13									1107		364					364			
319	720+58.2		L	C-13	2	1		1	1		1	1		106				1				1	
319	720+58.2	721+06.4	L-L	C-13 - PB-19									165		50					50			
319	721+06.4		L	PB-19																	1		
	GEORGETOWN - CKT "C"																						
319	721+06.4 (PLAINFIELD)	876+47.0	L-L	PB-19 - PB-20									204			63							
319	876+47.0		L	PB-20																	1		
319	876+47.0	875+50.7	L-L	PB-20 - C-15									27		4					4			
319	875+50.7		L	C-15	2	1		1	1		1	1		106				1				1	
	PLAINFIELD - CKT 'C'																						
318	713+43.4	711+77.4	L-L	PB-10 - C-6									516		167					167			
318	711+77.4		L	C-6	2	1		1	1		1	1		106					1			1	
	**100% LOCAL FUNDING SPLIT CARRIED TO SHEET 313				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	SUBTOTALS CARRIED TO SHEET 313				12	6	6	6	5	1	6	6	4062	616	1148	151	1	4	1	1148	5	6	0

HAM-PLAINFIELD RD
ROUNDABOUTS

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SHEET NO.	STATION FROM	STATION TO	SIDE	REFERNCE NUMBER	625 CONNECTION, FUSED PULL APART EACH	625 CONNECTION, UNFUSED PULL APART EACH	625 CONNECTION, UNFUSED PERMANENT EACH	625 TRANSFORMER BASE, TYPE AT-A EACH	625 LIGHT POLE, CONVENTIONAL (40') EACH	625 LIGHT POLE, CONVENTIONAL (30') EACH	625 LIGHT POLE FOUNDATION, 24" X 8' DEEP EACH	625 BRACKET ARM, 8' EACH	625 NO. 4 AWG 600 VOLT DISTRIBUTION CABLE FT	625 NO. 10 AWG POLE AND BRACKET CABLE FT	625 CONDUIT, 2", 725.05 FT	625 CONDUIT, JACKED OR DRILLED, 725.04, 3" FT	625 LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN (105W - 12,750 LUMENS) EACH	625 LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN (145W - 16,200 LUMENS) EACH	625 LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN (165W - 21,350 LUMENS) EACH	625 TRENCH, 24" DEEP FT	625 PULL BOX, 725.06, SIZE 4 EACH	625 GROUND ROD EACH	625 POWER SERVICE, AS PER PLAN EACH	NOTES
321	PLAINFIELD CKT 'D'																						
	900+98		R	CC-D																		1	1	
	900+98	901+02.4	R-R	CC-D - PB-30									33		6					6				
	901+02.4		R	PB-30			3														1			
	901+02.4	901+48.9	R-R	PB-30 - PB-31									165			50								
	901+48.9		R	PB-31			6														1			
	901+48.9	901+48.9	R-L	PB-31 - PB-32									183		56					56				
	901+48.9		L	PB-32			6														1			
	901+48.9	900+86.2	L-L	PB-32 - D-1									33		6					6				
	900+86.2		L	D-1	2	1		1	1		1	1		106				1				1		
	901+48.9	730+40.7	L-L	PB-32 - D-4									729		238					238				
	730+40.7		L	D-4	2	1		1	1		1	1		106				1				1		
	730+40.7	730+80.4	L-L	D-4 - PB-27									174		53					53				
	730+80.4		L	PB-27			6														1			
	730+80.4	730+67.9	L-L	PB-27 - PB-28									147			44								
	730+67.9		L	PB-28			3														1			
	730+67.9	730+79.0	L-L	PB-28 - PB-29									147			44								
	730+79.0		L	PB-29			6														1			
	730+79.0	950+79.0	L-L	PB-29 - D-7									216		67					67				
	950+79.0		L	D-7	2	1		1	1		1	1		106				1				1		
	.																							
	950+79.0	951+94.5	L-L	D-7 - D-8									390		125					125				
	951+94.5		L	D-8	2	1		1	1		1	1		106				1				1		
323	730+80.4	731+11.0	L-L	PB-27 - D-5									111		32					32				
	731+11.0		L	D-5	2	1		1	1		1	1		106				1				1		
	730+79.0	733+08.8	L-R	PB-29 - D-6									543		176					176				
	733+08.8		R	D-6	2	1		1	1		1	1		106				1				1		
321	901+48.9	902+88	R-R	PB-31 - D-2									447		144					144				
	902+88		R	D-2	2	1		1		1	1	1		86				1				1		
	902+88	729+06.0	R-L	D-2 - D-3									417		134					134				
	729+06.0		L	D-3	2	1		1	1		1	1		106				1				1		
	729+06.0	728+40.1	L-L	D-3 - PB-24									237		74					74				
	728+40.1		L	PB-24			3														1			
	728+40.1	728+47.5	L-CL	PB-24 - PB-25									153			46								
	**100% LOCAL FUNDING SPLIT CARRIED TO SHEET 313				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	SUBTOTALS CARRIED TO SHEET 313				16	8	33	8	7	1	8	8	4125	828	1111	184	0	8	0	1111	7	9	1	

CALCULATED EMS
CHECKED HRS

LIGHTING SUBSUMMARY

HAM-PLAINFIELD RD
ROUNDABOUTS

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SHEET NO.	STATION FROM	STATION TO	SIDE	REFERNCE NUMBER	625 CONNECTION, FUSED PULL APART EACH	625 CONNECTION, UNFUSED PULL APART EACH	625 CONNECTION, UNFUSED PERMANENT EACH	625 TRANSFORMER BASE, TYPE AT-A EACH	625 LIGHT POLE, CONVENTIONAL (40') EACH	625 LIGHT POLE, CONVENTIONAL (30') EACH	625 LIGHT POLE FOUNDATION, 24" X 8' DEEP EACH	625 BRACKET ARM, 8' EACH	625 NO. 4 AWG 600 VOLT DISTRIBUTION CABLE FT	625 NO. 10 AWG POLE AND BRACKET CABLE FT	625 CONDUIT, 2", 725.05 FT	625 CONDUIT, JACKED OR DRILLED, 725.04, 3" FT	625 LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN (105W - 12,750 LUMENS) EACH	625 LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN (145W - 16,200 LUMENS) EACH	625 LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN (165W - 21,350 LUMENS) EACH	625 TRENCH, 24" DEEP FT	625 PULL BOX, 725.06, SIZE 4 EACH	625 GROUND ROD EACH	625 POWER SERVICE, AS PER PLAN EACH	NOTES
321																							
	728+47.5		CL	PB-25			3														1		
	728+47.5	728+40.3	CL-R	PB-25 - PB-26									144			43							
	728+40.3		R	PB-26			6														1		
	728+40.3	727+97	R-R	PB-26 - D-10									144		43					43			
	727+97		R	D-10	2	1		1	1		1	1		106				1				1	
	728+40.3	728+92.1	R-R	PB-26 - D-9									183		56					56			
	728+92.1		R	D-9	2	1		1	1		1	1		106				1				1	
320	727+97	726+18.4	R-R	D-10 - D-11									552		179					179			
	726+18.4		R	D-11	2	1		1		1	1	1		86			1					1	
	726+18.4	723+59.9	R-R	D-11 - PB-23									792		259					259			
	723+59.9		R	PB-23			6														1		
	723+59.9	723+59.8	R-L	PB-23 - PB-22									240			75							
	723+59.8		L	PB-22			3														1		
	723+59.8	724+11.8	L-L	PB-22 - D-12									171		52					52			
	724+11.8		L	D-12	2	1		1	1		1	1		106				1				1	
	723+59.9	722+13.9	R-R	PB-23 - D-13									453		146					146			
	722+13.9		R	D-13	2	1		1		1	1	1		86				1				1	
**100% LOCAL FUNDING SPLIT SUBTOTALS FROM THIS SHEET					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
**100% LOCAL FUNDING SPLIT SUBTOTALS FROM SHEET 308					14	7	9	7	7	0	7	7	2427	742	638	111	7	0	0	638	5	8	1
**100% LOCAL FUNDING SPLIT SUBTOTALS FROM SHEET 309					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
**100% LOCAL FUNDING SPLIT SUBTOTALS FROM SHEET 310					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
**100% LOCAL FUNDING SPLIT SUBTOTALS FROM SHEET 311					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
**100% LOCAL FUNDING SPLIT SUBTOTALS FROM SHEET 312					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
**100% LOCAL FUNDING SPLIT CARRIED TO GENERAL SUMMARY					14	7	9	7	7	0	7	7	2427	742	638	111	7	0	0	638	5	8	1
SUBTOTALS FROM THIS SHEET					10	5	18	5	3	2	5	5	2679	490	735	118	1	4	0	735	4	5	0
SUBTOTALS FROM SHEET 308					20	10	12	10	10	0	10	10	3714	1060	1047	111	8	2	0	1047	6	11	1
SUBTOTALS FROM SHEET 309					18	9	27	9	9	0	9	9	4338	954	1284	87	0	9	0	1284	6	10	1
SUBTOTALS FROM SHEET 310					8	4	12	4	4	0	4	4	1311	424	226	171	0	3	1	226	4	4	0
SUBTOTALS FROM SHEET 311					12	6	6	6	5	1	6	6	4062	616	1148	151	1	4	1	1148	5	6	0
SUBTOTALS FROM SHEET 312					16	8	33	8	7	1	8	8	4125	828	1111	184	0	8	0	1111	7	9	1
TOTALS CARRIED TO GENERAL SUMMARY					84	42	108	42	38	4	42	42	20229	4372	5551	822	10	30	2	5551	32	45	3

CALCULATED EMS
CHECKED HRS

LIGHTING SUBSUMMARY

HAM-PLAINFIELD RD
ROUNDABOUTS

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LEGEND

- PROPOSED LIGHT POLE, 40′ (TYP. UNLESS OHERWISE NOTED) W/ 8′ BRACKET ARM W/ LUMINAIRE, CONVENTIONAL, LED (TYPE SHOWN IN PLANS)
- PROPOSED POWER SERVICE AND CONTROL CENTER (VOLTAGE SPECIFIED IN PLANS)
- PROPOSED PULL BOX, 13″ X 24″ (LIGHTING)
- PROPOSED 2″ CONDUIT (725.05), IN TRENCH W/ (3)-#4 AWG DISTRIBUTION CABLES
- PROPOSED 3″ CONDUIT, 725.04, BORED W/ (3)-#4 AWG DISTRIBUTION CABLES
- PROPOSED CONDUIT STUB
- EXISTING LUMINAIRE
- EXISTING LIGHTING CIRCUIT
- EXISTING LIGHTING POWER SERVICE

HORIZONTAL SCALE IN FEET: 0, 10, 20, 40

CALCULATED GAN CHECKED JS

℄ CONST KROGER ENTRANCE

A4 PR LIGHT POLE TYPE III, 105W, LED STA. 6+27.9, 20.4′ LT.

2″ CONDUIT (13′)

PB-3 PR PULL BOX 13″x24″ (LIGHTING) STA. 6+16.2, 24.2′ LT.

3″ CONDUIT, 725.04, BORED (50′)

PB-4 PR PULL BOX 13″x24″ (LIGHTING) STA. 6+13.9, 26.1′ RT.

PB-5 PR PULL BOX 13″x24″ (LIGHTING) STA. 804+36.5, 44.9′ LT.

PB-2 PR PULL BOX 13″x24″ (LIGHTING) STA. 800+02.7, 41.1′ LT.

A3 PR LIGHT POLE TYPE III, 105W, LED STA. 800+66.4, 62.0′ LT.

2″ CONDUIT (65′)

2″ CONDUIT (76′)

2″ CONDUIT (56′)

2″ CONDUIT (39′)

A7 PR LIGHT POLE TYPE III, 105W, LED STA. 804+00, 35.5′ LT.

A5 PR LIGHT POLE TYPE III, 105W, LED STA. 5+63.5, 48.9′ RT.

A6 PR LIGHT POLE TYPE III, 105W, LED STA. 802+75.2, 35.5′ LT.

3″ CONDUIT, BORED (61′)

2″ CONDUIT (80′)

2″ CONDUIT (124′)

N 7° 02′ 13″ W

℄ CONST EXIST HUNT RD

MATCH LINE - STA 804+50.00 SEE SHEET 315

A1 PR LIGHT POLE TYPE III, 105W, LED STA. 799+70.5, 24.1′ RT.

2″ CONDUIT (48′)

2″ CONDUIT (11′)

PB-1 PR PULL BOX 13″x24″ (LIGHTING) STA. 800+17.5, 18.9′ RT.

2″ CONDUIT (126′)

2″ CONDUIT (10′)

CC-A PR POWER SERVICE & CONTROL CENTER "A", 120V STA. 800+19.4, 29.4′ RT.

A2 PR LIGHT POLE TYPE III, 105W, LED STA. 801+30.8, 51.0′ RT.

NOTES:

1. SEE SHEET 303 FOR RRFB LAYOUT AND SHEET 306 FOR RRFB WIRING DETAILS.
2. SEE SHEET 324 FOR LIGHTING WIRING AND CONTROL CENTER DATA DETAILS.

LIGHTING PLAN - HUNT RD
STA. 798+00.00 TO STA. 804+50.00

HAM-PLAINFIELD RD
ROUNDABOUTS

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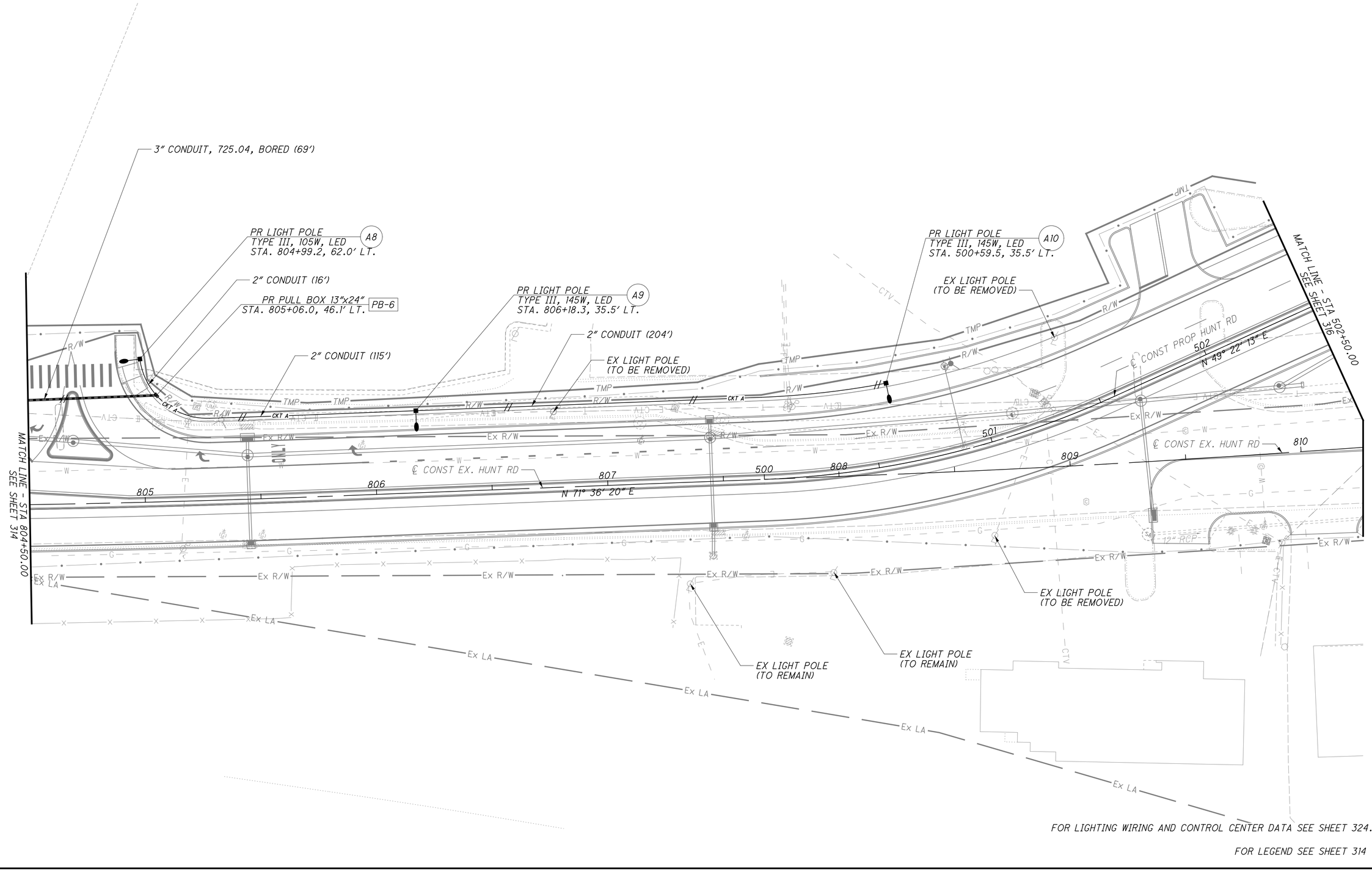

FOR LIGHTING WIRING AND CONTROL CENTER DATA SEE SHEET 324.

FOR LEGEND SEE SHEET 314

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED GAN
CHECKED JS

LIGHTING PLAN - HUNT RD
STA. 804+50.00 TO STA. 502+50.00

HAM-PLAINFIELD RD ROUNDABOUTS

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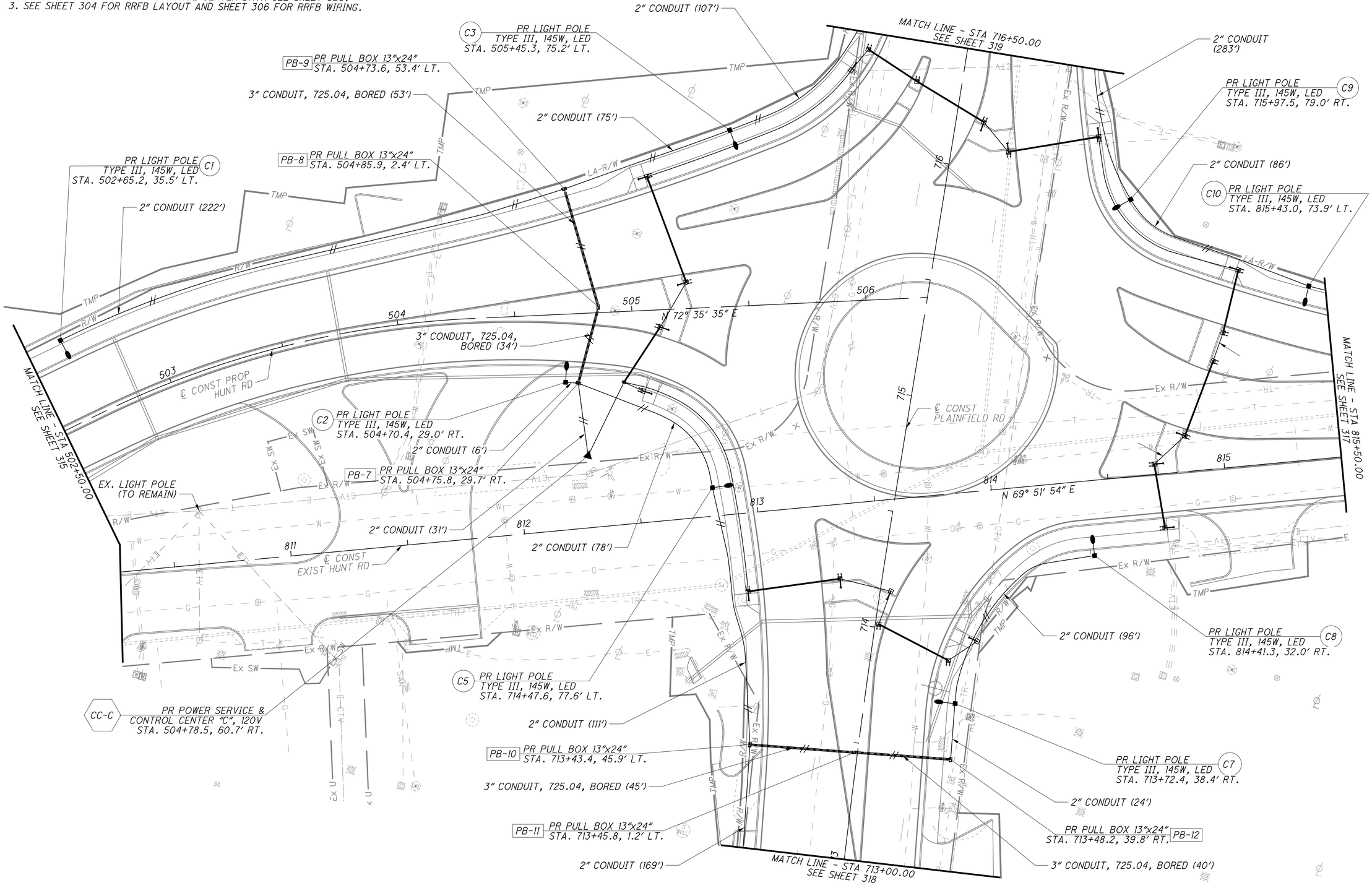
NOTES:

1. FOR LEGEND SEE SHEET 314.
2. FOR LIGHTING WIRING AND CONTROL CENTER DATA SEE SHEET 326.
3. SEE SHEET 304 FOR RRFB LAYOUT AND SHEET 306 FOR RRFB WIRING.



HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED EMS
CHECKED JGM

LIGHTING PLAN - HUNT RD
STA. 502+50.00 TO STA. 815+50.00

HAM-PLAINFIELD RD ROUNDABOUTS

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C11 PR LIGHT POLE
TYPE III, 145W, LED
STA. 817+26.9, 39.2' LT.

2" CONDUIT (187')

CKT C

℄ CONST EXIST HUNT RD

EX. LIGHT POLE
(TO BE REMOVED)

EX. LIGHT POLE
(TO BE REMOVED)

EX. LIGHT POLE
(TO BE REMOVED)

MATCH LINE - STA 815+50.00
SEE SHEET 316

FOR LEGEND SEE SHEET 314

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED GAN
CHECKED JS

LIGHTING PLAN - HUNT RD
STA. 815+50.00 TO STA. 818+50.00

HAM-PLAINFIELD RD
ROUNDABOUTS

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EX CIRCUIT (TO REMAIN)

B1-15 PR LIGHT POLE TYPE III, 145W, LED STA. 507+28.5, 11.7' RT.

℄ CONST SR 126 EXIT RAMP

2" CONDUIT (73')

EX CIRCUIT (TO BE REMOVED)

2" CONDUIT (35')

PR PULL BOX 13"x24" STA. 708+13, 48.8' LT. PB16

PB14 PR PULL BOX 13"x24" STA. 507+58.6, 28.8' RT.

EX LIGHT POLE (TO BE REMOVED)

PB13 PR PULL BOX 13"x24" STA. 708+13.4, 48.9' LT.

2" CONDUIT (40')

2" CONDUIT (68')

EX LIGHT POLE (TO BE REMOVED)

2" CONDUIT (167')

EX LIGHT POLE (TO BE REMOVED)

PR LIGHT POLE TYPE III, 165W, LED STA. 709+80.0, 40.8' LT. B1-16

C-6 PR LIGHT POLE TYPE III, 165W, LED STA. 711+77.4, 41.6' LT.

EX CIRCUIT (TO REMAIN)

CKT B1

EX CIRCUIT (TO BE REMOVED)

2" CONDUIT (98')

℄ CONST PLAINFIELD RD

EX LIGHT POLE (TO BE REMOVED)

EX CIRCUIT (TO BE REMOVED)

℄ CONST SR 126 ENTRANCE RAMP

2" CONDUIT (5')

CKT B1

EX OVERHEAD CIRCUIT (TO BE REMOVED)

B1-14 PR LIGHT POLE TYPE III, 145W, LED STA. 708+05, 48.2' RT.

CKT B2

EX LIGHT POLE (TO BE REMOVED)

EX CIRCUIT (TO BE REMOVED)

EX CIRCUIT (TO REMAIN)

PB15 PR PULL BOX 13"x24" STA. 708+09.8, 49.2' RT.

CKT B2

CKT B2

EX CIRCUIT (TO REMAIN)

EX PULL BOX (TO REMAIN) STA. 600+78.4, 8.8' LT.

2" CONDUIT (45')

EX CIRCUIT (TO REMAIN)

2" CONDUIT (33')

EX POWER SERVICE "B" (TO REMAIN) 240V, SINGLE PHASE STA. 600+79.9, 47.3' RT.

PR LIGHT POLE TYPE III, 145W, LED STA. 601+10.8, 8.5' LT. B2-1

EX PULL BOX (TO REMAIN) STA. 600+79.4, 44.2' RT.

MATCH LINE - STA 713+00.00 SEE SHEET 319

NOTES:

1. CONTRACTOR SHALL FIELD VERIFY EXISTING CIRCUITS.
2. EXISTING CIRCUITS ON SR 126 CONNET TO PROPOSED CIRCUITS B-1 and B-2.

FOR LEGEND SEE SHEET 314

HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED GAN CHECKED JS

LIGHTING PLAN - PLAINFIELD RD STA. 708+00.00 TO STA. 713+00.00

HAM-PLAINFIELD RD ROUNDABOUTS

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2" CONDUIT (107')

PR LIGHT POLE
TYPE III, 145W, LED
STA. 716+84.5, 40.8' LT.
C-4

2" CONDUIT (11')

PR PULL BOX 13"x24"
STA. 716+96.3, 41.6' LT.
PB17

EX. LIGHT POLE
(TO BE REMOVED)

2" CONDUIT (364')

EX. LIGHT POLE
(TO BE REMOVED)

PB19 PR PULL BOX 13"x24"
STA. 721+06.4, 52.1' LT.

C-13 PR LIGHT POLE
TYPE III, 145W, LED
STA. 720+58.2, 37.5' LT.

2" CONDUIT (50')

PB20 PR PULL BOX 13"x24"
STA. 876+47.0, 27.9' LT.

C-15 PR LIGHT POLE
TYPE III, 145W, LED
STA. 875+50.7, 29.3' LT.

3" CONDUIT (63')

2" CONDUIT (4')

MATCH LINE - STA 716+50.00
SEE SHEET 316

718 719 720 721

℄ CONST PLAINFIELD RD

875 876 877 750 751

MATCH LINE - STA 722+00.00
SEE SHEET 320

3" CONDUIT (88')

PR PULL BOX 13"x24"
STA. 717+05.8, 45.4' RT.
PB18

C-12 PR LIGHT POLE (30')
TYPE III, 145W, LED
STA. 718+73.6, 45.1' RT.

2" CONDUIT (168')

EX. LIGHT POLE
(TO BE REMOVED)

2" CONDUIT (235')

EX. LIGHT POLE
(TO BE REMOVED)

2" CONDUIT (42')

PB21 PR PULL BOX 13"x24"
STA. 721+08.5, 45.5' RT.

EX. LIGHT POLE
(TO BE REMOVED)

C-14 PR LIGHT POLE
TYPE III, 105W, LED
STA. 750+83.9, 23.2' RT.

FOR LEGEND SEE SHEET 314

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED GAN
CHECKED JS

LIGHTING PLAN - PLAINFIELD RD
STA. 716+50.00 TO STA. 722+00.00

HAM-PLAINFIELD RD ROUNDABOUTS

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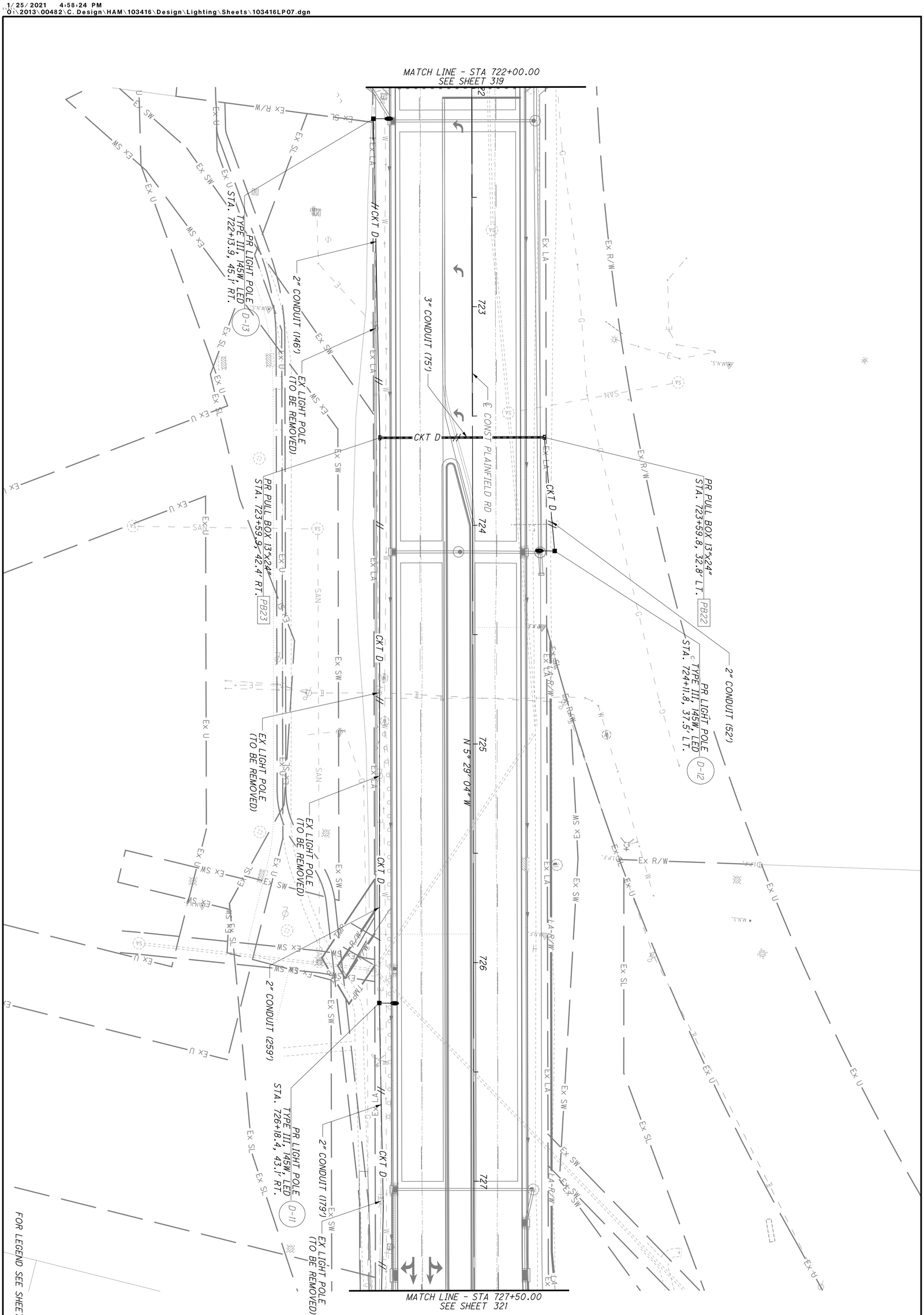

320
335

HAM-PLAINFIELD RD ROUNDABOUTS

LIGHTING PLAN - PLAINFIELD RD
STA. 722+00.00 TO STA. 727+50.00

CALCULATED GAN
CHECKED JS

0 20
10 40
HORIZONTAL SCALE IN FEET

2" CONDUIT (32')
PB27 PR PULL BOX 13"x24"
STA. 730+80.4, 21.0' LT.
2" CONDUIT (44')
MATCH LINE - STA 731+00.00
SEE SHEET 323
PR PULL BOX 13"x24" PB28
STA. 730+69.7, 22.1' RT.
2" CONDUIT (44')
PR PULL BOX 13"x24" PB29
STA. 730+79.0, 65.4' RT.
2" CONDUIT (67')
D-4 PR LIGHT POLE
TYPE III, 145W, LED
STA. 730+40.7, 52.7' LT.
2" CONDUIT (53')
MATCH LINE - STA 902+50.00
SEE SHEET 322
PR LIGHT POLE D-7
TYPE III, 145W, LED
STA. 950+79.0, 50.1' LT.
2" CONDUIT (125')
PR LIGHT POLE D-8
TYPE III, 145W, LED
STA. 951+94.5, 21.4' LT.
2" CONDUIT (144')
D-2 PR LIGHT POLE
TYPE III, 145W, LED
STA. 902+88, 32.0' RT.
2" CONDUIT (134')
℄ CONST REED
HARTMAN HWY
D-3 PR LIGHT POLE
TYPE III, 145W, LED
STA. 729+06.0, 72.0' LT.
℄ CONST PEPPERMILL LN
2" CONDUIT (74')
PR LIGHT POLE D-9
TYPE III, 145W, LED
STA. 728+92.1, 69.2' RT.
2" CONDUIT (56')
PB24 PR PULL BOX 13"x24"
STA. 728+40.1, 47.4' LT.
3 CONDUIT (46')
PB25 PR PULL BOX 13"x24"
STA. 728+47.5, 0.0' RT.
PR PULL BOX 13"x24" PB26
STA. 728+40.3, 44.4' RT.
3" CONDUIT (43')
2" CONDUIT (43')
PR LIGHT POLE D-10
TYPE III, 145W, LED
STA. 727+97, 47.4' RT.
℄ CONST PLAINFIELD RD
MATCH LINE - STA 727+50.00
SEE SHEET 320
FOR LEGEND SEE SHEET 314

HORIZONTAL SCALE IN FEET
0 10 20 40
CALCULATED GAN
CHECKED JS

LIGHTING PLAN - PLAINFIELD RD
STA. 727+50.00 TO STA. 731+50.00

HAM-PLAINFIELD RD ROUNDABOUTS

321
335

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D-1 PR LIGHT POLE
TYPE III, 145W, LED
STA. 900+86.2, 20.6' LT.

PR PULL BOX 13"x24" PB32
STA. 901+48.9, 21.9' LT.

2" CONDUIT (60')

2" CONDUIT (238')

2" CONDUIT (6')

3" CONDUIT (56')

3" CONDUIT (50')

PR PULL BOX 13"x24" PB31
STA. 901+48.9, 35.0' RT.

SP3 PR SERVICE PANEL
240V, SINGLE PHASE
STA. 900+98, 50.0' RT.

PB30 PR PULL BOX 13"x24"
STA. 901+02.4, 46.0' RT.

℄ CONST PLAINFIELD RD

MATCH LINE - STA 902+50.00
SEE SHEET 321

FOR LEGEND SEE SHEET 314

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED GAN
CHECKED JS

LIGHTING PLAN - PLAINFIELD RD
STA. 898+00.00 TO STA. 902+50.00

HAM-PLAINFIELD RD
ROUNDABOUTS

322
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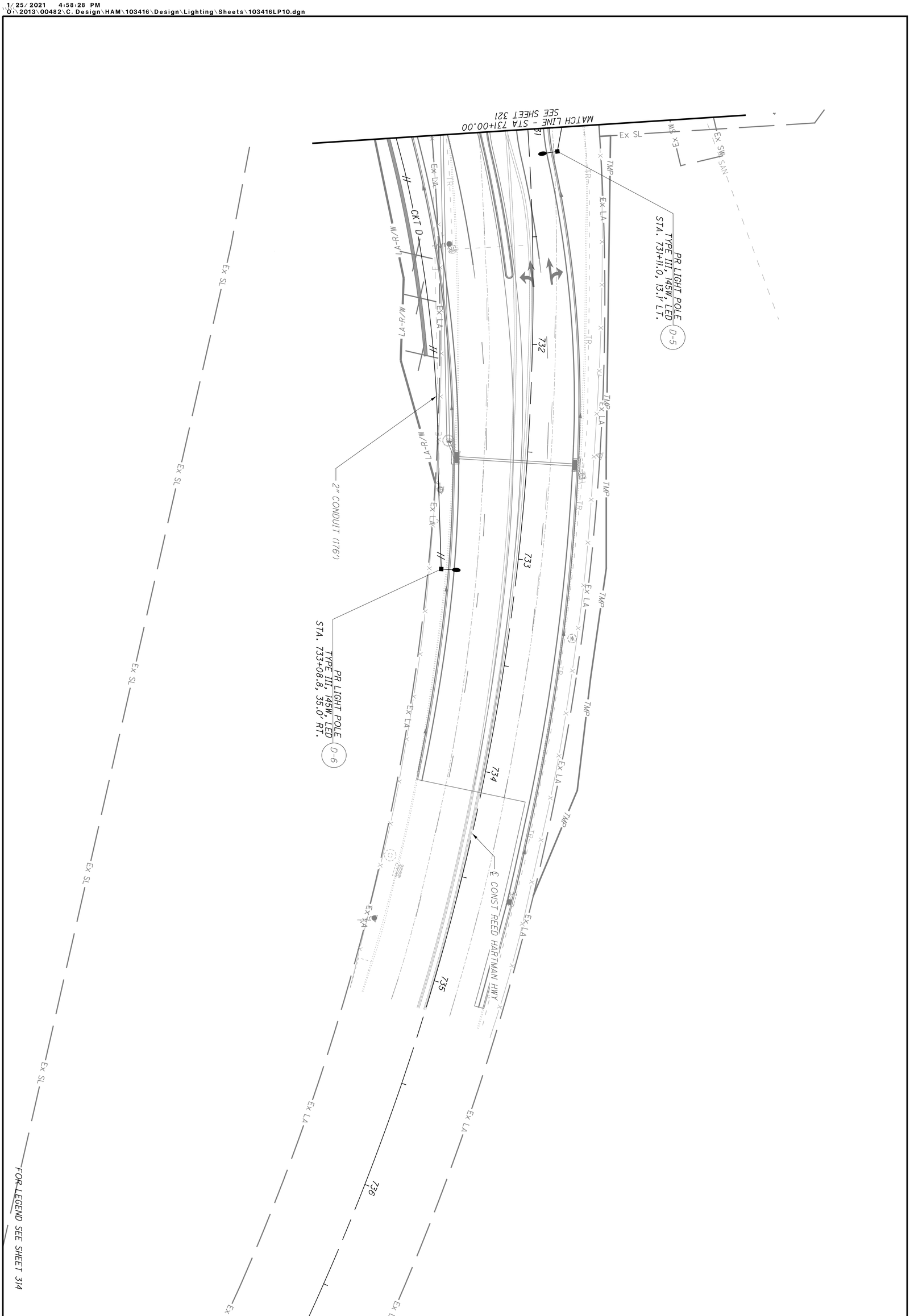


HAM-PLAINFIELD RD ROUNDABOUTS

LIGHTING PLAN - REED HARTMAN HWY
STA. 731+50.00 TO STA. 737+00.00

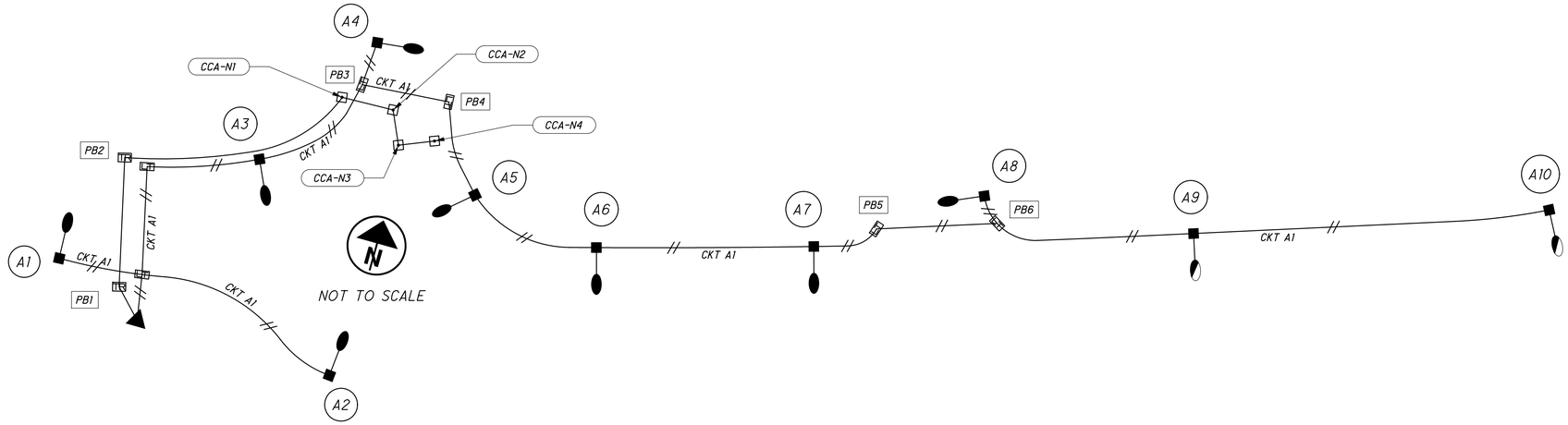
CALCULATED GAN
CHECKED JS

0 10 20 40
HORIZONTAL SCALE IN FEET

CONTROL CENTER DATA									
CONTROL CENTER	LINE VOLTAGE (VOLTS)	CONNECTED LOAD (KVA)	SERVICE ENTRANCE CONDUCTOR SIZE - AWG	ENCLOSURE RATING (AMPS)	CIRCUIT NO.	CIRCUIT LOAD (AMPS)	CIRCUIT FUSE SIZE (AMPS)	CIRCUIT CABLE SIZE (AWG)	MAINTAINING AGENCY
PROPOSED CC-A (KROGER RAB)	120	1.13	2	60	A1	9.42	15	4	CITY OF BLUE ASH
					RRFB	1.00	15	8	CITY OF BLUE ASH

LEGEND

- PR. LIGHT POLE W/LED LUMINAIRE (105W - 12,750 LUMENS) (ATBO 30LEDE10 R3 4K - OR EQUIVALENT)
- PR. LIGHT POLE W/LED LUMINAIRE (145W - 16,200 LUMENS) (ATBO 30LEDE15 R3 4K - OR EQUIVALENT)
- PR. LIGHTING CIRCUIT (3-#4 AWG)
- PR. RECTANGULAR RAPID FLASHING BEACON (RRFB)
- PR. PULL BOX, TRAFFIC
- PR. RRFB WIRING (SEE SHEET 306 FOR DETAILS)
- PR. PULL BOX, LIGHTING
- PR. POWER SERVICE



CIRCUIT 'A1'

VOLTAGE : 120V

WIRE FACTOR USED (TWO - NO. 4 AWG WIRES): 0.62 OHMS/MFT/1000

Section			Amperes		Ampere-Feet	AWG	Voltage Drop		% Drop	At Point
From	To	Design Feet	At Point	Accum.			In Section	Accum.		
A10	A9	204	1.21	1.21	247	4	0.15	2.49	2.08	A10
A9	PB8	115	1.21	2.42	278	4	0.17	2.34	1.95	A9
A8	PB8	16	0.88	0.88	14	4	0.01	2.18	1.81	A8
PB8	PB7	69	0.00	3.29	227	4	0.14	2.17	1.81	PB8
PB7	A7	39	0.00	3.29	128	4	0.08	2.03	1.69	PB7
A7	A6	124	0.88	4.17	517	4	0.32	1.95	1.62	A7
A6	A5	80	0.88	5.04	403	4	0.25	1.63	1.36	A6
A5	PB6	56	0.88	5.92	331	4	0.21	1.38	1.15	A5
PB6	PB5	50	0.00	5.92	296	4	0.18	1.17	0.98	PB6
A4	PB5	13	0.88	0.88	11	4	0.01	0.99	0.83	A4
PB5	A3	76	0.00	6.79	516	4	0.32	0.99	0.82	PB5
A3	PB3	65	0.88	7.67	498	4	0.31	0.67	0.56	A3
PB3	PB2	62	0.00	7.67	475	4	0.29	0.36	0.30	PB3
A1	PB2	48	0.88	0.88	42	4	0.03	0.09	0.08	A1
A2	PB2	126	0.88	0.88	110	4	0.07	0.13	0.11	A2
PB2	CC-A	11	0.00	9.42	104	4	0.06	0.06	0.05	PB2

CALCULATED EMS
CHECKED JGM

CIRCUIT SCHEMATIC & CONTROL CENTER DATA
CONTROL CENTER "A"

HAM-PLAINFIELD RD
ROUNDABOUTS

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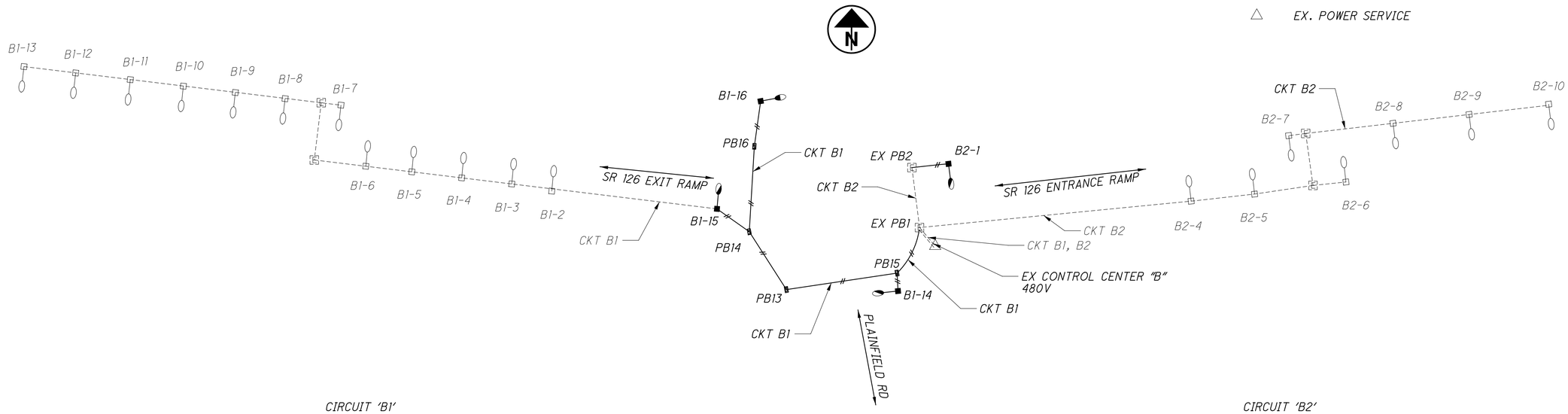
CONTROL CENTER	LINE VOLTAGE (VOLTS)	CONNECTED LOAD (KVA)	SERVICE ENTRANCE CONDUCTOR SIZE - AWG	ENCLOSURE RATING (AMPS)	CIRCUIT NO.	CIRCUIT LOAD (AMPS)	CIRCUIT FUSE SIZE (AMPS)	CIRCUIT CABLE SIZE (AWG)	MAINTAINING AGENCY
EXISTING CC-B (SR-126 EB RAMP)	480	4.78	2	60	B1	6.45	30	4	ODOT
					B2	3.51	30	4	ODOT

LEGEND

- LIGHT POLE W/LED LUMINAIRE (145W - 16,200 LUMENS) (ATBO 30LEDE15 R3 4K - OR EQUIVALENT)
- LIGHT POLE W/LED LUMINAIRE (165W - 21,350 LUMENS) (ATB2 60LEDE85 R3 4K - OR EQUIVALENT)
- EX. LIGHT POLE W/200W HPS LUMINAIRE
- PR. LIGHTING CIRCUIT (3-#4 AWG)
- EX. LIGHTING CIRCUIT (3-#4 AWG)
- EX PULL BOX
- PR PULL BOX
- EX. POWER SERVICE



CIRCUIT 'B1'

VOLTAGE : 480V

WIRE FACTOR USED (TWO - NO. 4 AWG WIRES): 0.62 OHMS/MFT/1000

Section			Amperes		Ampere-Feet	AWG	Voltage Drop		% Drop	At Point
From	To	Design Feet	At Point	Accum.			In Section	Accum.		
B1-13	B1-12	210	0.46	0.46	96	4	0.06	7.56	1.58	B1-13
B1-12	B1-11	200	0.46	0.92	183	4	0.11	7.50	1.56	B1-12
B1-11	B1-10	200	0.46	1.38	275	4	0.17	7.39	1.54	B1-11
B1-10	B1-9	200	0.46	1.83	367	4	0.23	7.22	1.50	B1-10
B1-9	B1-8	200	0.46	2.29	458	4	0.28	6.99	1.46	B1-9
B1-8	PB	195	0.46	2.75	536	4	0.33	6.71	1.40	B1-8
B1-7	PB	5	0.46	0.46	2	4	0.00	6.38	1.33	B1-7
PB	B1-6	239	0.00	3.21	767	4	0.48	6.38	1.33	PB
B1-6	B1-5	200	0.46	3.67	733	4	0.45	5.90	1.23	B1-6
B1-5	B1-4	205	0.46	4.13	846	4	0.52	5.45	1.13	B1-5
B1-4	B1-3	200	0.46	4.58	917	4	0.57	4.92	1.03	B1-4
B1-3	B1-2	200	0.46	5.04	1,008	4	0.63	4.35	0.91	B1-3
B1-2	B1-15	821	0.46	5.50	4,516	4	2.80	3.73	0.78	B1-2
B1-15	PB10	35	0.30	5.80	203	4	0.13	0.93	0.19	B1-15
B1-16	PB10	115	0.34	0.34	40	4	0.02	0.83	0.17	B1-16
PB10	PB8	158	0.00	6.15	971	4	0.60	0.80	0.17	PB10
B1-14	PB8	5	0.30	0.30	2	4	0.00	0.20	0.04	B1-14
PB8	EX PB1	45	0.00	6.45	290	4	0.18	0.20	0.04	PB8
EX PB1	CC-B	5	0.00	6.45	32	4	0.02	0.02	0.00	EX PB1

CIRCUIT 'B2'

VOLTAGE : 480V

WIRE FACTOR USED (TWO - NO. 4 AWG WIRES): 0.62 OHMS/MFT/1000

Section			Amperes		Ampere-Feet	AWG	Voltage Drop		% Drop	At Point
From	To	Design Feet	At Point	Accum.			In Section	Accum.		
B2-10	B2-9	210	0.46	0.46	96	4	0.06	2.24	0.47	B2-10
B2-9	B2-8	200	0.46	0.92	183	4	0.11	2.18	0.45	B2-9
B2-8	EX PB4	65	0.46	1.38	89	4	0.06	2.06	0.43	B2-8
B2-7	EX PB4	134	0.46	0.46	61	4	0.04	2.04	0.43	B2-7
EX PB4	EX PB3	75	0.00	1.83	138	4	0.09	2.01	0.42	EX PB4
B2-6	EX PB3	5	0.46	0.46	2	4	0.00	1.92	0.40	B2-6
EX PB3	B2-5	200	0.00	2.29	458	4	0.28	1.92	0.40	EX PB3
B2-5	B2-4	200	0.46	2.75	550	4	0.34	1.64	0.34	B2-5
B2-4	EX PB1	646	0.46	3.21	2,073	4	1.29	1.30	0.27	B2-4
B2-1	EX PB2	32	0.30	0.30	10	4	0.01	0.03	0.01	B2-1
EX PB2	EX PB1	53	0.00	0.30	16	4	0.01	0.02	0.00	EX PB2
EX PB1	CC-B	5	0.00	3.51	18	4	0.01	0.01	0.00	EX PB1

CALCULATED EMS
CHECKED JGM

CIRCUIT SCHEMATIC & CONTROL CENTER DATA
CONTROL CENTER "B"

HAM-PLAINFIELD RD ROUNDABOUTS

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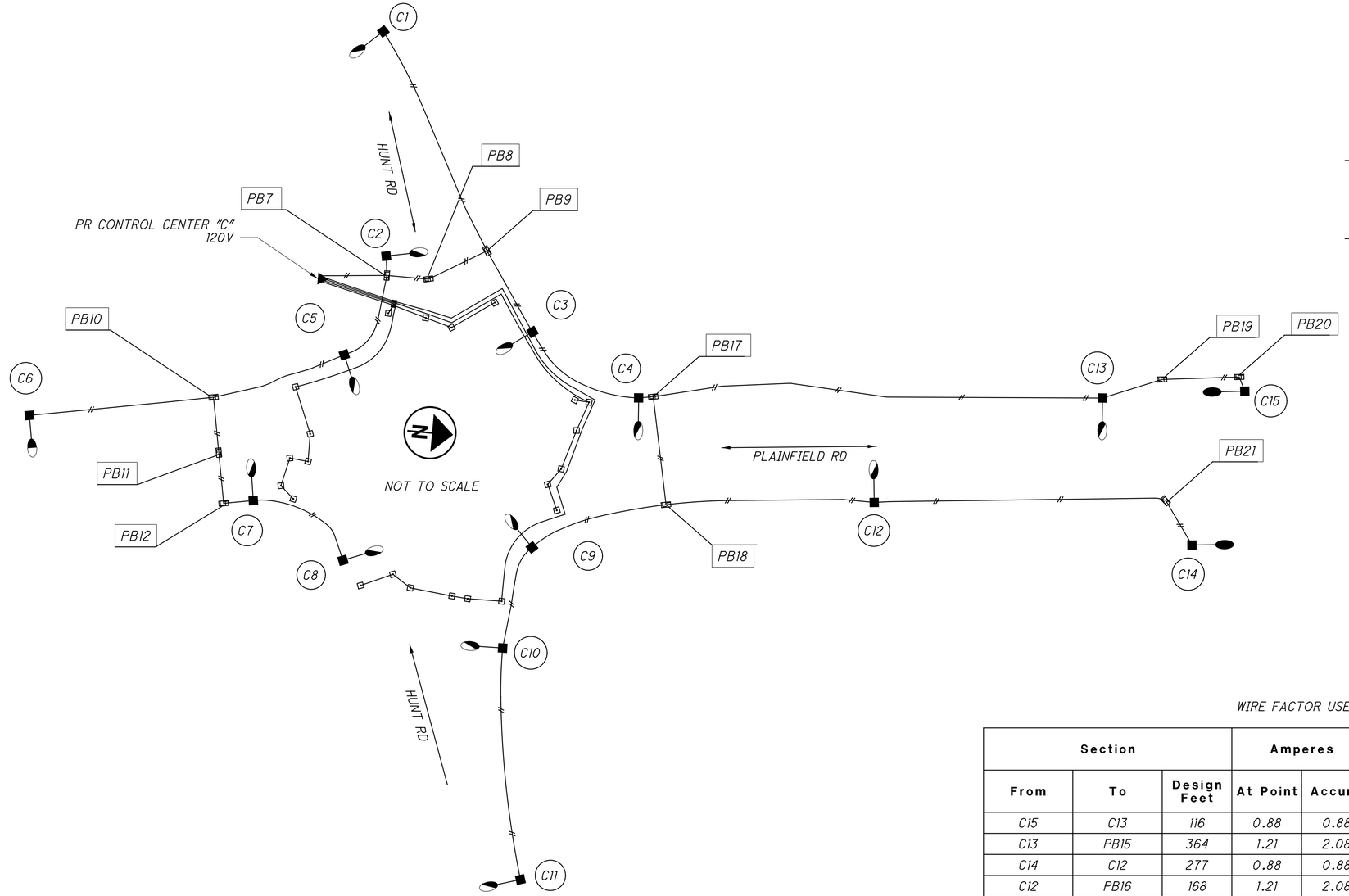

LEGEND

- PR. LIGHT POLE W/LED LUMINAIRE (105W - 12,750 LUMENS) (ATBO 30LEDE10 R3 4K - OR EQUIVALENT)
- PR. LIGHT POLE W/LED LUMINAIRE (145W - 16,200 LUMENS) (ATBO 30LEDE15 R3 4K - OR EQUIVALENT)
- PR. LIGHT POLE W/LED LUMINAIRE (165W - 21,350 LUMENS) (ATB2 60LEDE85 R3 4K - OR EQUIVALENT)
- PR. LIGHTING CIRCUIT (3-#4 AWG)
- PR. RECTANGULAR RAPID FLASHING BEACON (RRFB)
- PR. PULL BOX, TRAFFIC
- PR. RRFB WIRING (SEE SHEET 306 FOR DETAILS)
- PR. PULL BOX, LIGHTING
- PR. POWER SERVICE

CONTROL CENTER DATA									
CONTROL CENTER	LINE VOLTAGE (VOLTS)	CONNECTED LOAD (KVA)	SERVICE ENTRANCE CONDUCTOR SIZE - AWG	ENCLOSURE RATING (AMPS)	CIRCUIT NO.	CIRCUIT LOAD (AMPS)	CIRCUIT FUSE SIZE (AMPS)	CIRCUIT CABLE SIZE (AWG)	MAINTAINING AGENCY
PROPOSED CC-C (HUNT RAB)	120	2.595	2	100	C1	17.63	30	4	CITY OF BLUE ASH
					RRFB - North	1.00	15	8	CITY OF BLUE ASH
					RRFB - South	1.00	15	8	CITY OF BLUE ASH
					RRFB - West	1.00	15	8	CITY OF BLUE ASH
					RRFB - East	1.00	15	8	CITY OF BLUE ASH

CIRCUIT 'C1'

VOLTAGE : 120V

WIRE FACTOR USED (TWO - NO. 4 AWG WIRES): 0.62 OHMS/MFT/1000

Section			Amperes		Ampere-Feet	AWG	Voltage Drop		% Drop	At Point
From	To	Design Feet	At Point	Accum.			In Section	Accum.		
C15	C13	116	0.88	0.88	102	4	0.06	2.62	2.18	C15
C13	PB15	364	1.21	2.08	758	4	0.47	2.55	2.13	C13
C14	C12	277	0.88	0.88	242	4	0.15	2.76	2.30	C14
C12	PB16	168	1.21	2.08	350	4	0.22	2.61	2.18	C12
C11	C10	188	1.21	1.21	227	4	0.14	2.92	2.44	C11
C10	C9	86	1.21	2.42	208	4	0.13	2.78	2.32	C10
C9	PB16	115	1.21	3.63	417	4	0.26	2.65	2.21	C9
PB16	PB15	88	0.00	5.71	502	4	0.31	2.40	2.00	PB16
PB15	C4	12	0.00	7.79	94	4	0.06	2.08	1.74	PB15
C4	C3	107	1.21	9.00	963	4	0.60	2.03	1.69	C4
C3	PB14	75	1.21	10.21	766	4	0.47	1.43	1.19	C3
C1	PB14	222	1.21	1.21	268	4	0.17	1.12	0.93	C1
PB14	PB12	87	0.00	11.42	993	4	0.62	0.95	0.80	PB14
C8	C7	96	1.21	1.21	116	4	0.07	1.08	0.90	C8
C7	PB17	110	1.21	2.42	266	4	0.16	1.01	0.84	C7
C6	PB17	169	1.38	1.38	232	4	0.14	0.99	0.82	C6
PB17	C5	111	0.00	3.79	421	4	0.26	0.84	0.70	PB17
C5	PB12	78	1.21	5.00	390	4	0.24	0.58	0.48	C5
C2	PB12	6	1.21	1.21	7	4	0.00	0.34	0.29	C2
PB12	CC-C	31	0.00	17.63	546	4	0.34	0.34	0.28	PB12

CALCULATED EMS
CHECKED JGM

CIRCUIT SCHEMATIC & CONTROL CENTER DATA
CONTROL CENTER "C"

HAM-PLAINFIELD RD ROUNDABOUTS

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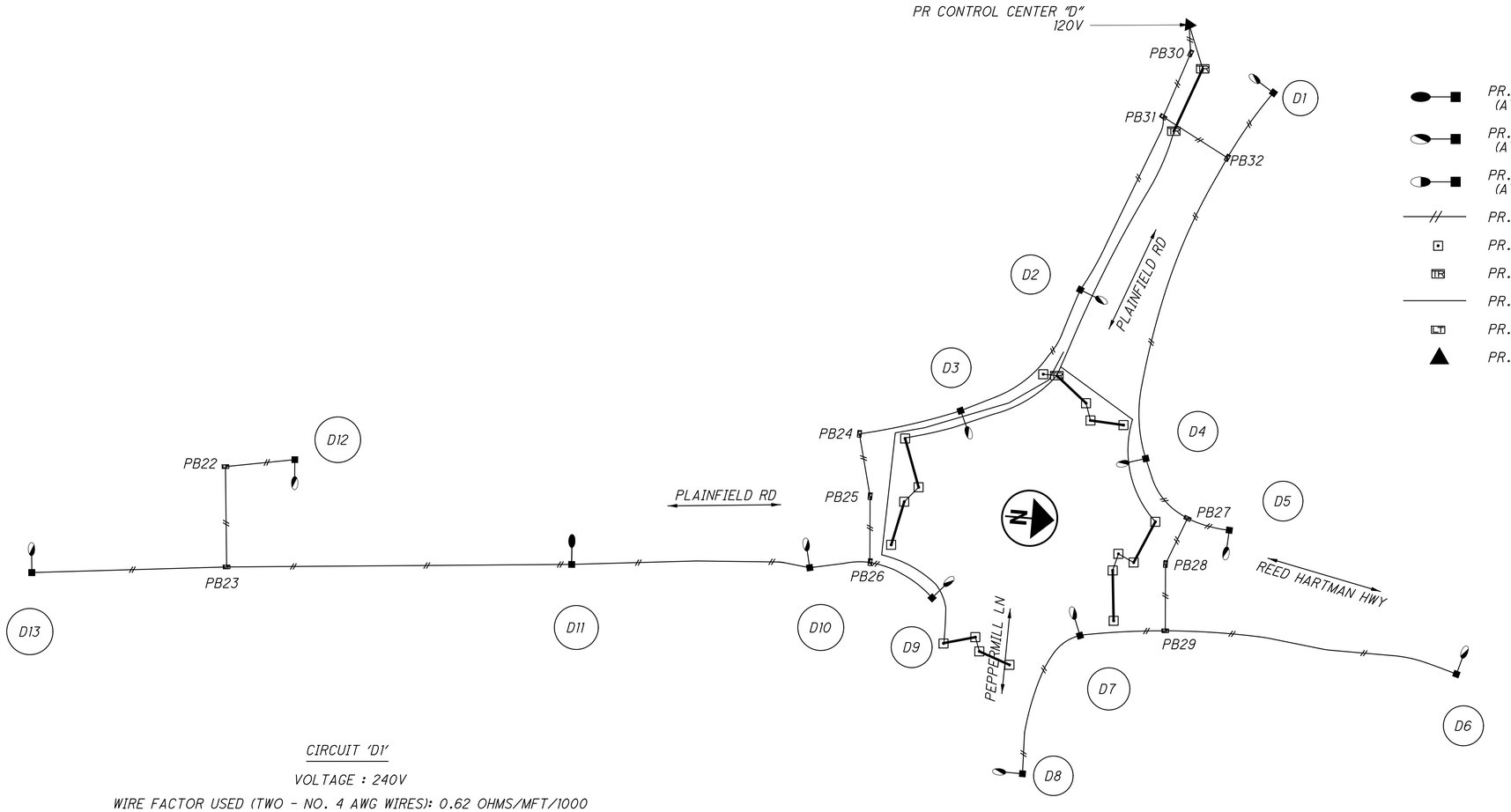

LEGEND

- PR. LIGHT POLE W/LED LUMINAIRE (105W - 12,750 LUMENS) (ATBO 30LEDE10 R3 4K - OR EQUIVALENT)
- PR. LIGHT POLE W/LED LUMINAIRE (145W - 16,200 LUMENS) (ATBO 30LEDE15 R3 4K - OR EQUIVALENT)
- PR. LIGHT POLE W/LED LUMINAIRE (165W - 21,350 LUMENS) (ATB2 60LEDE85 R3 4K - OR EQUIVALENT)
- PR. LIGHTING CIRCUIT (3-#4 AWG)
- PR. RECTANGULAR RAPID FLASHING BEACON (RRFB)
- PR. PULL BOX, TRAFFIC
- PR. RRFB WIRING (SEE SHEET 306 FOR DETAILS)
- PR. PULL BOX, LIGHTING
- PR. POWER SERVICE

CIRCUIT 'D1'

VOLTAGE : 240V

WIRE FACTOR USED (TWO - NO. 4 AWG WIRES): 0.62 OHMS/MFT/1000

Section			Amperes		Ampere-Feet	AWG	Voltage Drop		% Drop	At Point
From	To	Design Feet	At Point	Accum.			In Section	Accum.		
D13	PB10	146	1.21	1.21	176	4	0.11	3.62	3.02	D13
D12	PB10	127	1.21	1.21	153	4	0.10	3.60	3.00	D12
PB10	D11	259	0.00	2.42	626	4	0.39	3.51	2.92	PB10
D11	D10	179	1.21	3.63	649	4	0.40	3.12	2.60	D11
D10	PB9	43	1.21	4.83	208	4	0.13	2.72	2.27	D10
D9	PB9	56	1.21	1.21	68	4	0.04	2.59	2.16	D9
PB9	D3	167	0.00	6.04	1,009	4	0.63	2.55	2.12	PB9
D3	D2	134	1.21	7.25	972	4	0.60	1.92	1.60	D3
D2	PB2	144	1.21	8.46	1,218	4	0.76	1.32	1.10	D2
D8	D7	125	1.21	1.21	151	4	0.09	2.26	1.89	D8
D7	PB6	67	1.21	2.42	162	4	0.10	2.17	1.81	D7
D6	PB6	176	1.21	1.21	213	4	0.13	2.20	1.83	D6
PB6	PB4	88	0.00	3.63	319	4	0.20	2.07	1.72	PB6
D5	PB4	32	1.21	1.21	39	4	0.02	1.90	1.58	D5
PB4	D4	53	0.00	4.83	256	4	0.16	1.87	1.56	PB4
D4	PB3	238	1.21	6.04	1,438	4	0.89	1.71	1.43	D4
D1	PB3	60	1.21	1.21	73	4	0.04	0.87	0.72	D1
PB3	PB2	57	0.00	7.25	413	4	0.26	0.82	0.68	PB3
PB2	PB1	52	0.00	15.71	817	4	0.51	0.56	0.47	PB2
PB1	CC-D	6	0.00	15.71	94	4	0.06	0.06	0.05	PB1

CONTROL CENTER	LINE VOLTAGE (VOLTS)	CONNECTED LOAD (KVA)	SERVICE ENTRANCE CONDUCTOR SIZE - AWG	ENCLOSURE RATING (AMPS)	CIRCUIT NO.	CIRCUIT LOAD (AMPS)	CIRCUIT FUSE SIZE (AMPS)	CIRCUIT CABLE SIZE (AWG)	MAINTAINING AGENCY
PROPOSED CC-D (REED HARTMAN RAB)	120	2.365	2	100	C1	15.71	30	4	CITY OF BLUE ASH
					RRFB - North	1.00	15	8	CITY OF BLUE ASH
					RRFB - South	1.00	15	8	CITY OF BLUE ASH
					RRFB - West	1.00	15	8	CITY OF BLUE ASH
					RRFB - East	1.00	15	8	CITY OF BLUE ASH

CALCULATED EMS
CHECKED JGM

CIRCUIT SCHEMATIC & CONTROL CENTER DATA
CONTROL CENTER "D"

HAM-PLAINFIELD RD ROUNDABOUTS

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GENERAL NOTES - SOLDIER PILE RETAINING WALL

STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS:

REFER TO THE FOLLOWING SUPPLEMENTAL SPECIFICATIONS:
800 REVISED 07-17-20

DESIGN DATA:

CONCRETE, CLASS QC1 - COMPRESSIVE STRENGTH 4.0 KSI (CIP FACING, LEVELING PAD, AND DRILLED SHAFTS)

REINFORCING STEEL - MINIMUM YIELD STRENGTH 60 KSI EPOXY COATED PER CMS 509

STEEL H-PILES - ASTM A572 - YIELD STRENGTH 50 KSI

TIMBER LAGGING - BENDING STRENGTH (Fb) 950 PSI

DESIGN SPECIFICATIONS:

THE STRUCTURE CONFORMS TO THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 9TH EDITION, AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

ITEM 507 - STEEL PILES, MISC.: SOLDIER PILES (HP12x53)

THIS WORK CONSISTS OF FURNISHING AND PLACING STEEL SOLDIER PILES INTO DRILLED HOLES. FURNISH SOLDIER PILES CONSISTING OF STRUCTURAL STEEL MEMBERS THAT MEET THE PLAN REQUIREMENTS AND CONFORM TO ASTM A572, GRADE 50. DO NOT FIELD WELD OR SPLICE STEEL SOLDIER PILES.

THE DEPARTMENT WILL MEASURE SOLDIER PILES ALONG THE AXIS OF THE SOLDIER PILE FROM THE TOP OF WALL ELEVATION TO THE BOTTOM OF THE DRILLED SHAFT, AS DETERMINED BY THE ENGINEER. THE DEPARTMENT WILL PAY FOR SOLDIER PILES AT THE CONTRACT UNIT PRICE PER FOOT FOR ITEM 507, STEEL PILES, MISC.: SOLDIER PILES.

ITEM 513 - WELDED STUD SHEAR CONNECTORS:

WELD HEADED STEEL STUDS TO THE FLANGES OF THE SOLDIER PILE IN ORDER TO CONNECT THE CONCRETE WALL FACING TO THE SOLDIER PILE. ATTACH HEADED STUDS ACCORDING TO C&MS 513.22 AND AS SHOWN IN THE PLANS. THE CONTRACTOR MAY ATTACH THE STUDS EITHER BEFORE PLACING THE SOLDIER PILE IN THE DRILLED HOLE OR AFTER EXCAVATING IN FRONT OF THE WALL. PROTECT THE HEADED STUDS FROM DAMAGE UNTIL THE CONCRETE WALL FACING IS POURED. REPAIR OR REPLACE DAMAGED HEADED STUDS AT NO EXPENSE TO THE DEPARTMENT.

ITEM 524 - DRILLED SHAFTS, 24" DIA. ABOVE BEDROCK, AS PER PLAN
ITEM 524 - DRILLED SHAFTS, 24" DIA. INTO BEDROCK, AS PER PLAN:

THIS WORK CONSISTS OF FURNISHING AND INSTALLING DRILLED SHAFTS FOR SOLDIER PILE AND LAGGING WALLS. THE DRILLED SHAFTS ARE REINFORCED WITH SOLDIER PILES INSTEAD OF REINFORCING STEEL CAGES. THE SOLDIER PILES EXTEND ABOVE THE TOP OF THE DRILLED SHAFT. FURNISH AND INSTALL THE DRILLED SHAFTS IN ACCORDANCE WITH CMS 524 EXCEPT AS MODIFIED AND SUPPLEMENTED BELOW.

EXCAVATE THE HOLE FOR THE DRILLED SHAFT WITHIN 3 INCHES OF THE PLAN LOCATION. PLACE THE SOLDIER PILE WITHIN THE HOLE SO IT IS VERTICAL AND NOT INCLINED MORE THAN 1/4 INCH PER FOOT. PLACE THE SOLDIER PILE SO THAT THE FLANGES ARE PARALLEL TO REFERENCE LINE PP-NE. DO NOT ALLOW THE ORIENTATION OF THE FLANGES TO VARY BY MORE THAN 10 DEGREES. SUPPORT THE SOLDIER PILE SO THAT IT DOES NOT MOVE DURING CONCRETE PLACEMENT.

USE CLASS QC1 CONCRETE ACCORDING TO CMS 511. PLACE CONCRETE TO THE ELEVATION FOR THE TOP OF THE DRILLED SHAFT. THE CONTRACTOR MAY PLACE CONCRETE USING THE FREE FALL METHOD PROVIDED THE DEPTH OF WATER IS LESS THAN 6 INCHES AND THE CONCRETE FALLS WITHOUT STRIKING THE SIDES OF THE HOLE. POURING CONCRETE ALONG THE WEB OF THE SOLDIER PILE IS ACCEPTABLE.

CHECK THE POSITION, THE VERTICAL ALIGNMENT AND ORIENTATION OF THE SOLDIER PILE IMMEDIATELY AFTER CONCRETE PLACEMENT. MAKE CORRECTIONS AS NECESSARY TO MEET THE ABOVE TOLERANCES. AS SHOWN ON THE PLANS, FILL THE HOLE ABOVE THE BOTTOM OF THE PROPOSED LAGGING TO THE EXISTING GROUND SURFACE WITH C&MS ITEM 613 LOW STRENGTH MORTAR BACKFILL (LSM).

REMOVE CONCRETE AND LSM AS NECESSARY FROM AROUND THE SOLDIER PILE IN ORDER TO PLACE THE LAGGING. PLACE LAGGING SO THAT THE SOLDIER PILE FLANGE OVERLAPS THE END OF THE LAGGING BY AT LEAST 3 INCHES AT BOTH ENDS OF THE LAGGING. WAIT AT LEAST 12 HOURS AFTER PLACING CONCRETE BEFORE PLACING LAGGING.

METHOD OF MEASUREMENT: THE DEPARTMENT WILL MEASURE DRILLED SHAFTS ABOVE BEDROCK, AS PER PLAN, ALONG THE AXIS OF THE DRILLED SHAFT FROM THE EXISTING GROUND SURFACE TO THE TOP OF BEDROCK, AS DETERMINED BY THE ENGINEER. THE DEPARTMENT WILL MEASURE DRILLED SHAFTS INTO BEDROCK, AS PER PLAN, ALONG THE AXIS OF THE DRILLED SHAFT FROM TOP OF BEDROCK TO THE BOTTOM OF THE DRILLED SHAFT, AS DETERMINED BY THE ENGINEER.

PAYMENT IS FULL COMPENSATION FOR CONSTRUCTING THE DRILLED SHAFTS, INCLUDING FURNISHING AND PLACING CONCRETE AND LSM, REMOVAL OF CONCRETE OR LSM FROM AROUND THE SOLDIER PILE IN ORDER TO PLACE LAGGING.

ITEM 610 - RETAINING WALL MISC.: PREFABRICATED GEOCOMPOSITE DRAIN:

THIS WORK CONSISTS OF FURNISHING AND PLACING PREFABRICATED GEOCOMPOSITE DRAIN (PGD) STRIPS AGAINST TIMBER LAGGING.

FURNISH PGD STRIPS CONSISTING OF A POLYMERIC CORE WRAPPED IN A FABRIC CONFORMING TO C&MS 712.09, TYPE A. USE CORE MATERIAL THAT IS RESISTANT TO PETROLEUM-BASED CHEMICALS, NATURALLY OCCURING SOIL CHEMICALS, AND ROAD DE-ICING SALTS. THE CORE MATERIAL SHALL HAVE SUFFICIENT FLEXIBILITY TO WITHSTAND BENDING AND HANDLING DURING INSTALLATION WITHOUT DAMAGE. THE REQUIRED MINIMUM COMPRESSIVE STRENGTH OF THE CORE IS 40 POUNDS PER SQUARE INCH ACCORDING TO ASTM D 1621 PROCEDURE A. THE MINIMUM (SINGLE SIDE) CORE FLOW CAPACITY IS 10 GALLONS PER MINUTE PER FOOT OF WIDTH FOR A 0.1 GRADIENT AT 10 POUNDS PER SQUARE INCH BLADDER LOAD ACCORDING TO ASTM D 4716. FURNISH THE MANUFACTURER'S CERTIFIED TEST DATA.

PLACE PGD STRIPS BETWEEN THE SOLDIER PILES, FROM EDGE OF SOLDIER PILE TO EDGE OF SOLDIER PILE. PLACE THE SIDE FACED WITH GEOTEXTILE AGAINST THE TIMBER LAGGING, FACING TOWARDS THE RETAINED GROUND, AND SECURE THE DRAIN TO THE LAGGING. USE NAILS AND WASHERS AT LEAST 1-INCH DIAMETER IN SIZE TO SECURE THE PGD ALONG THE EDGES OF THE PGD AND AT A MAXIMUM SPACING OF 3 FEET. REPAIR ANY DAMAGE TO THE GEOTEXTILE FABRIC BY COVERING WITH A PATCH WHICH OVERLAPS THE DAMAGED AREA BY AT LEAST 12 INCHES. IF THE CORE OF THE PGD IS DAMAGED, REPLACE IT WITH A NEW SECTION OF PGD AND SPLICE THE NEW SECTION WITH AT LEAST A 12-INCH OVERLAP SUCH THAT THE FLOW OF WATER IS NOT IMPEDED WITHIN THE DRAIN. TAPE ALL JOINTS IN THE PGD STRIP TO PREVENT CONCRETE INTRUSION DURING PLACEMENT.

INSTALL POROUS BACKFILL AT THE BASE OF THE SOLDIER PILE WALL AS SHOWN IN THE PLANS. ENSURE THE BOTTOM OF EACH PGD STRIP EXTENDS INTO THE POROUS BACKFILL SO THAT WATER FLOW IS NOT INTERRUPTED.

THE DEPARTMENT WILL MEASURE PGD BY THE NUMBER OF SQUARE FEET OF SURFACE AREA OF PGD PLACED. THE DEPARTMENT WILL PAY FOR ACCEPTED QUANTITY AT THE CONTRACT UNIT PRICE BID PER SQUARE FOOT FOR ITEM 610 - RETAINING WALL, MISC.: PREFABRICATED GEOCOMPOSITE DRAIN.

ITEM 610 - RETAINING WALL, MISC.: TIMBER LAGGING:

THIS WORK CONSISTS OF FURNISHING AND PLACING TIMBER LAGGING BETWEEN THE SOLDIER PILES AS TEMPORARY SUPPORT FOR THE RETAINED SOIL. FURNISH TIMBER LAGGING CONSISTING OF CONSTRUCTION GRADE, UNTREATED HARDWOOD WITH A MINIMUM THICKNESS OF 3 INCHES. TO PERMIT DRAINAGE, PROVIDE 1/4" TO 1/2" SPACES BETWEEN LAGGING BOARDS USING 3/8" SPACER BLOCKS OR OTHER MEANS ACCEPTABLE TO THE ENGINEER. EXCAVATION FOR PLACEMENT OF THE LAGGING SHALL BE PERFORMED IN SUCH A MANNER THAT THE LAGGING IS TIGHT AGAINST THE EXCAVATION CUT FACE. ANY VOIDS BEHIND THE LAGGING SHALL BE BACKFILLED WITH NO. 57 STONE AS DIRECTED BY THE ENGINEER. THE COST OF ANY SUCH BACKFILLING REQUIRED, INCLUDING MATERIAL, PLACEMENT AND COMPACTION, SHALL BE INCIDENTAL TO THE COST OF LAGGING.

THE DEPARTMENT WILL PAY FOR TIMBER LAGGING AT THE CONTRACT UNIT PRICE PER SQUARE FOOT FOR ITEM 610 - RETAINING WALL, MISC.: TIMBER LAGGING.

ABBREVIATION LIST:

THE FOLLOWING STANDARD ABBREVIATIONS ARE USED THROUGHOUT THE RETAINING WALL PLANS.

CIP	= CAST-IN-PLACE
C.J.	= CONSTRUCTION JOINT
CLR.	= CLEARANCE
CONST.	= CONSTRUCTION
DIA.	= DIAMETER
E.F.	= EACH FACE
EL.	= ELEVATION
EQ.	= EQUAL
EX.	= EXISTING
EXP.	= EXPANSION
F.F.	= FRONT FACE
INV.	= INVERT
N.P.C.P.P.	= NON-PERFORATED CORRUGATED PLASTIC PIPE
P.C.P.P.	= PERFORATED CORRUGATED PLASTIC PIPE
PEJF	= PREFORMED EXPANSION JOINT FILLER
PGD	= PREFABRICATED GEOCOMPOSITE DRAIN
PROP.	= PROPOSED
REF.	= REFERENCE
R.F.	= REAR FACE
SER.	= SERIES
SPA.	= SPACES
STA.	= STATION
TYP.	= TYPICAL
U.N.	= UNLESS NOTED

DESIGN AGENCY
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GENERAL NOTES
RETAINING WALL ALONG REFERENCE LINE PP-NE

HAM-PLAINFIELD RD
ROUNDABOUTS
PID No. 103416

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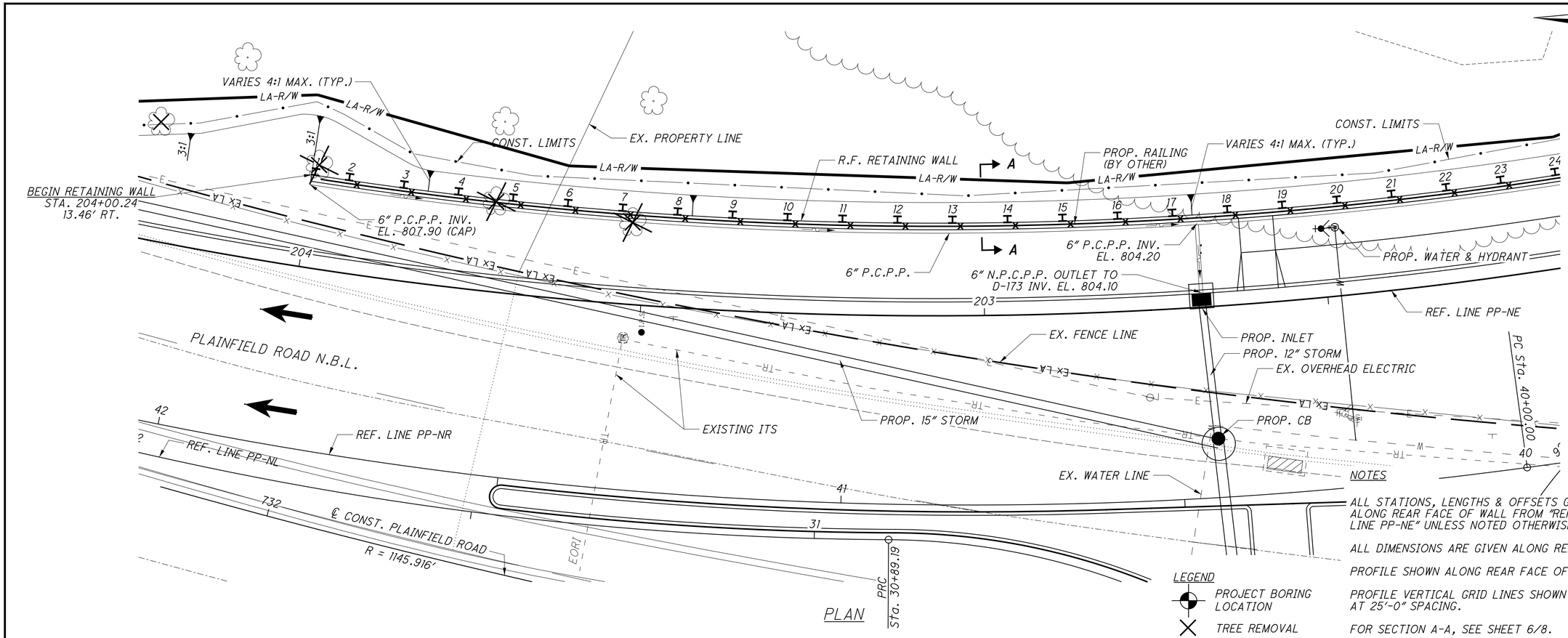


PLAN

LEGEND

- PROJECT BORING LOCATION
- TREE REMOVAL

NOTES

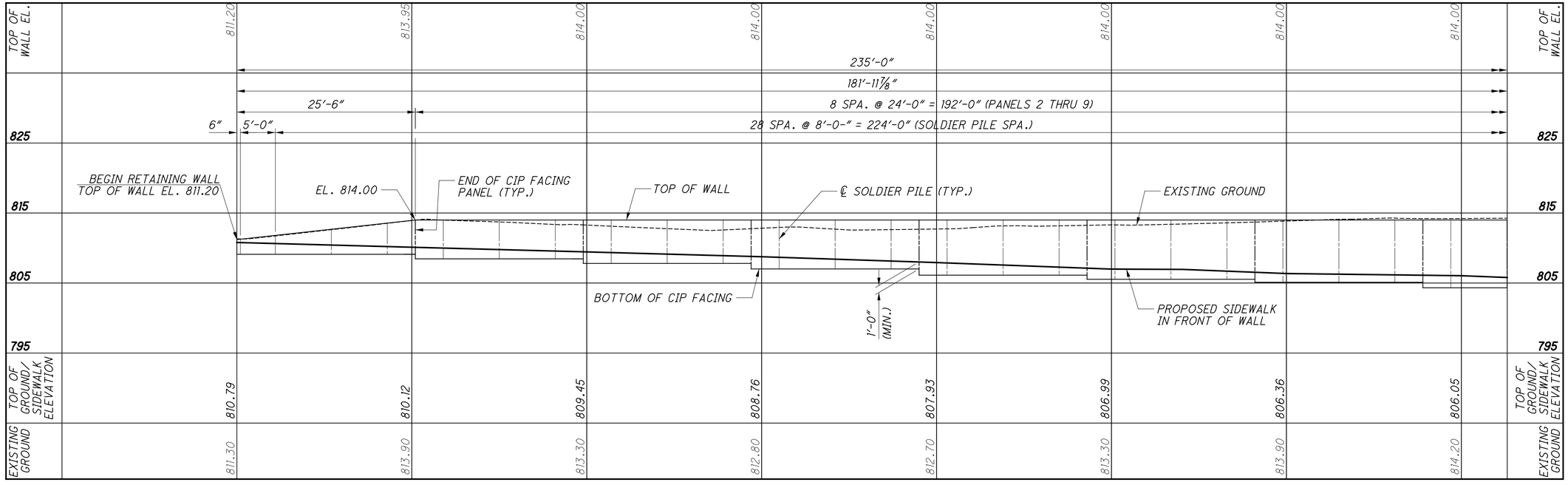
ALL STATIONS, LENGTHS & OFFSETS GIVEN ALONG REAR FACE OF WALL FROM "REFERENCE LINE PP-NE" UNLESS NOTED OTHERWISE.

ALL DIMENSIONS ARE GIVEN ALONG REAR FACE OF WALL.

PROFILE SHOWN ALONG REAR FACE OF WALL.

PROFILE VERTICAL GRID LINES SHOWN AT 25'-0" SPACING.

FOR SECTION A-A, SEE SHEET 6/8.



PROFILE
ALONG R.F. RETAINING WALL

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PLAN AND PROFILE - 1
RETAINING WALL ALONG REFERENCE LINE PP-NE

HAM-PLAINFIELD RD
ROUNDABOUTS
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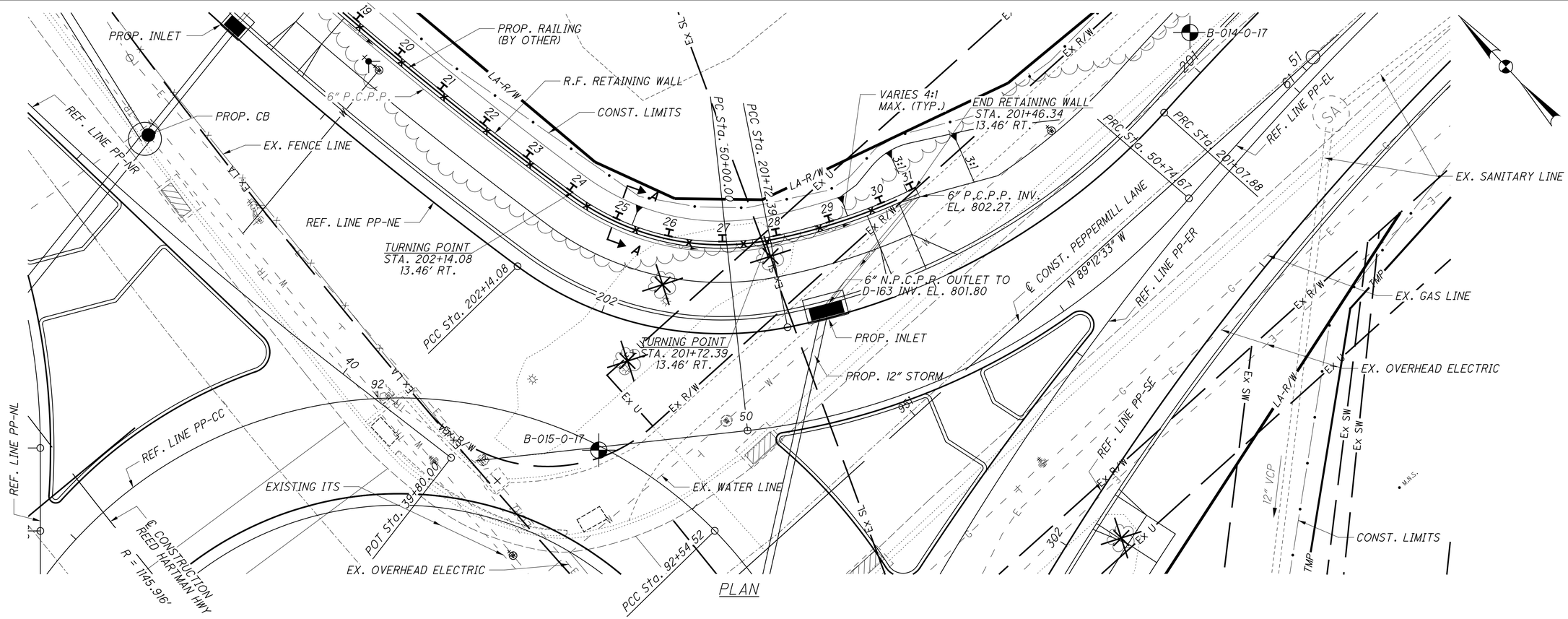

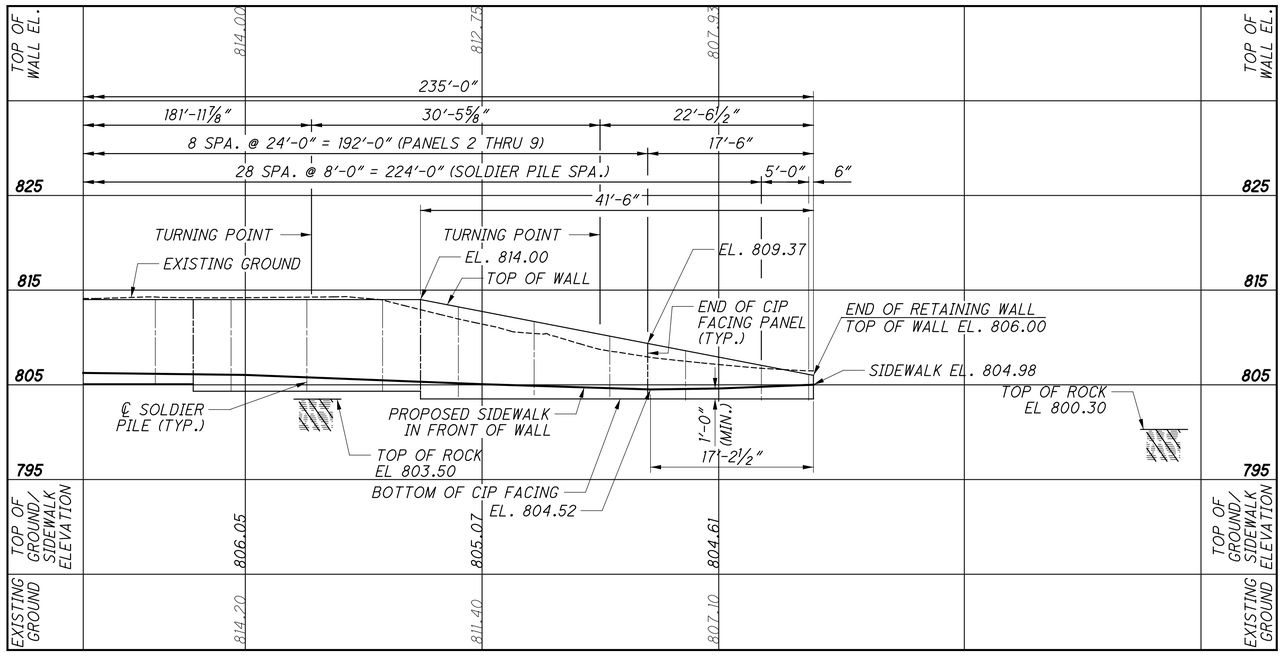

PROFILE
ALONG R.F. RETAINING WALL

NOTES

ALL STATIONS, LENGTHS & OFFSETS GIVEN ALONG REAR FACE OF WALL FROM "REFERENCE LINE PP-NE" UNLESS NOTED OTHERWISE.

ALL DIMENSIONS ARE GIVEN ALONG REAR FACE OF WALL.

PROFILE SHOWN ALONG REAR FACE OF WALL.

PROFILE VERTICAL GRID LINES SHOWN AT 25'-0" SPACING.

FOR SECTION A-A, SEE SHEET 6/8.

LEGEND

PROJECT BORING LOCATION

TREE REMOVAL

DESIGN AGENCY
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PLAN AND PROFILE - 2
RETAINING WALL ALONG REFERENCE LINE PP-NE

HAM-PLAINFIELD RD
ROUNDABOUTS
PID No. 103416

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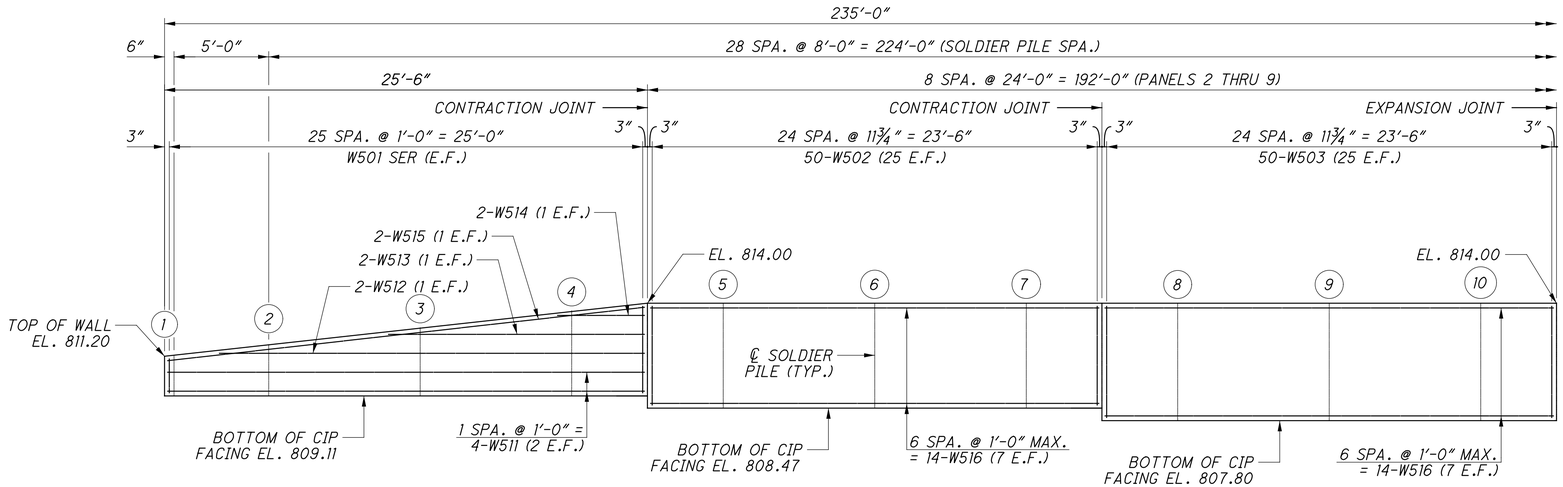
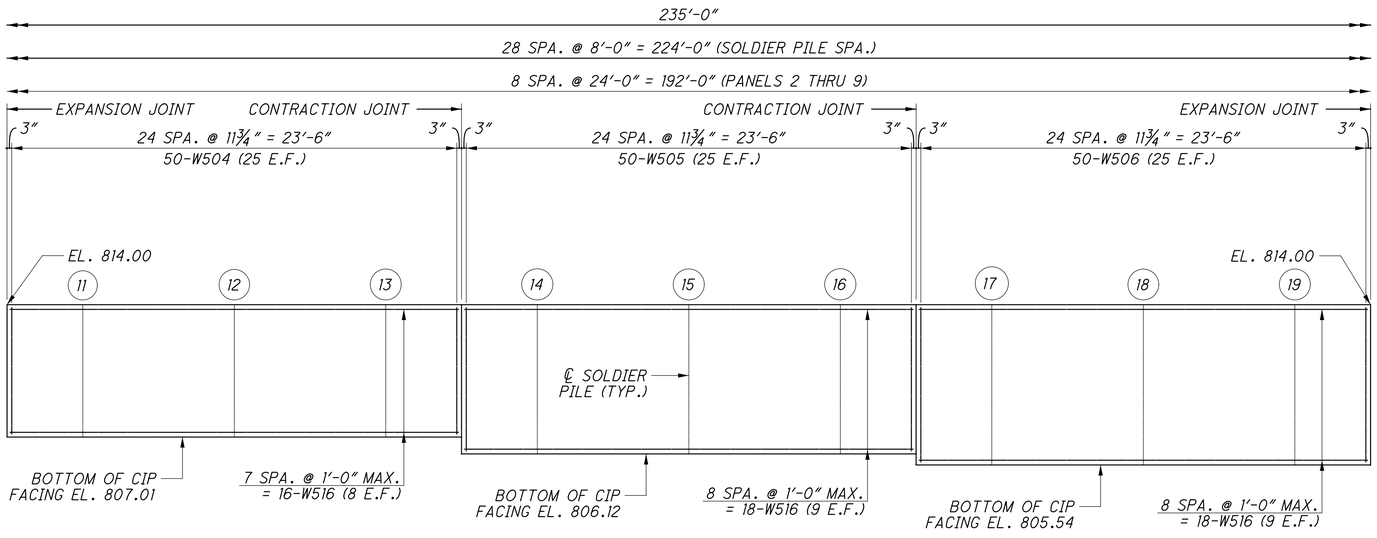


DEVELOPED ELEVATION - SOLDIER PILE LAYOUT



DEVELOPED ELEVATION - SOLDIER PILE LAYOUT

NOTES

ALL DIMENSIONS GIVEN ALONG REAR FACE OF WALL.

FOR ADDITIONAL WALL DETAILS, SEE SHEETS 6 THRU 8.

(X) - SOLDIER PILE NUMBER.

DESIGN AGENCY
STRUCTUREPOINT

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CIP REINFORCING DETAILS - 1
RETAINING WALL ALONG REFERENCE LINE PP-NE

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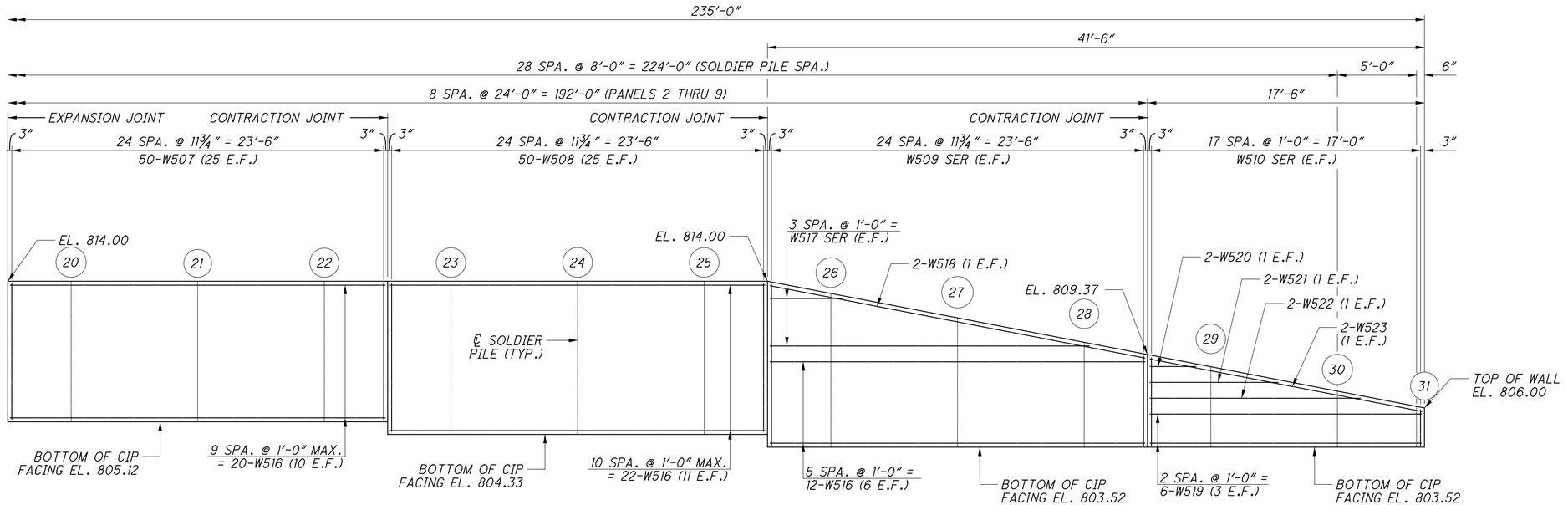

DEVELOPED ELEVATION - SOLDIER PILE LAYOUT

NOTES

ALL DIMENSIONS GIVEN ALONG REAR FACE OF WALL.

FOR ADDITIONAL WALL DETAILS, SEE SHEETS 6 THRU 8.

(X) - SOLDIER PILE NUMBER.

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CIP REINFORCING DETAILS - 2
RETAINING WALL ALONG REFERENCE LINE PP-NE

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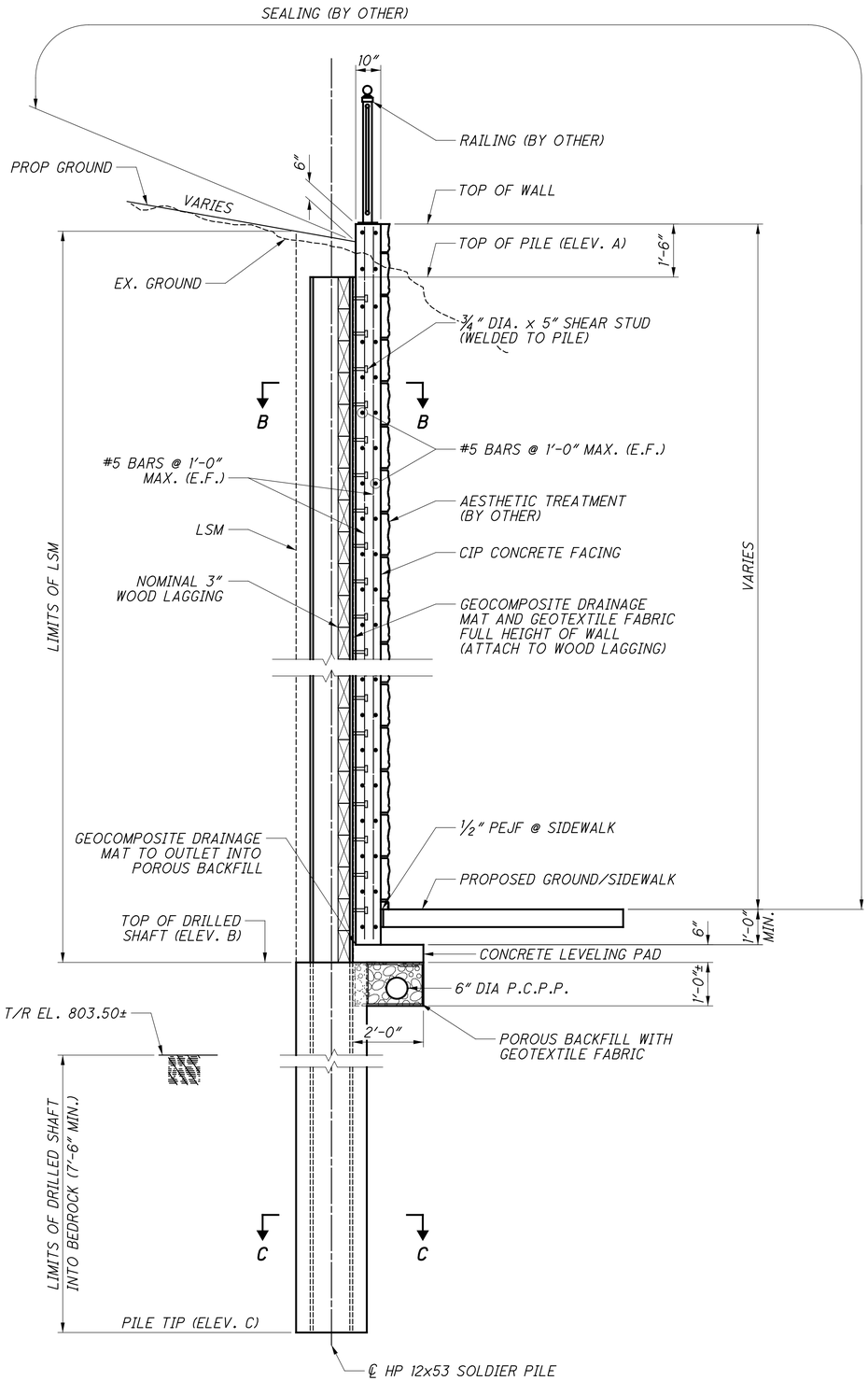
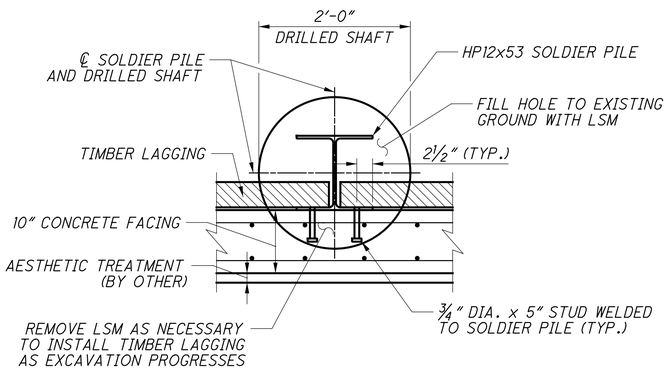
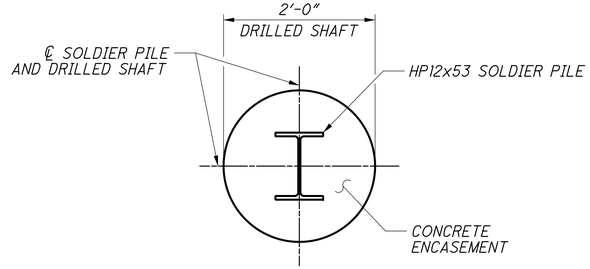


SECTION A-A



SECTION B-B



SECTION C-C

NOTES

TOP OF ROCK ELEVATION IS BASED ON BORING B-015-0-17.

PROVIDE 2" MINIMUM CLEAR COVER TO ALL REINFORCEMENT.

SEE RETAININIG WALL ELEVATION TABLE ON SHEET 8/8 FOR ELEVATIONS A, B, AND C.

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RETAINING WALL DETAILS - 1
RETAINING WALL ALONG REFERENCE LINE PP-NE

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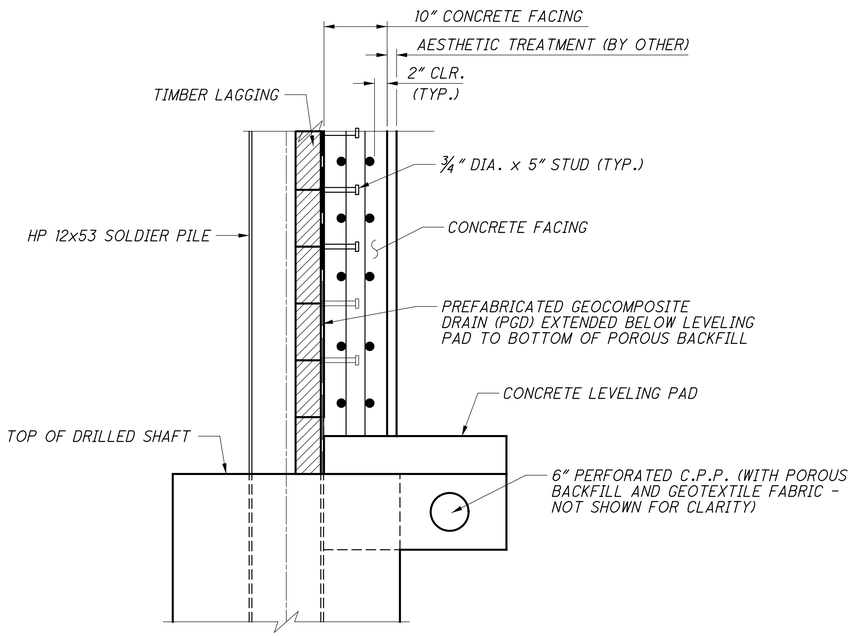
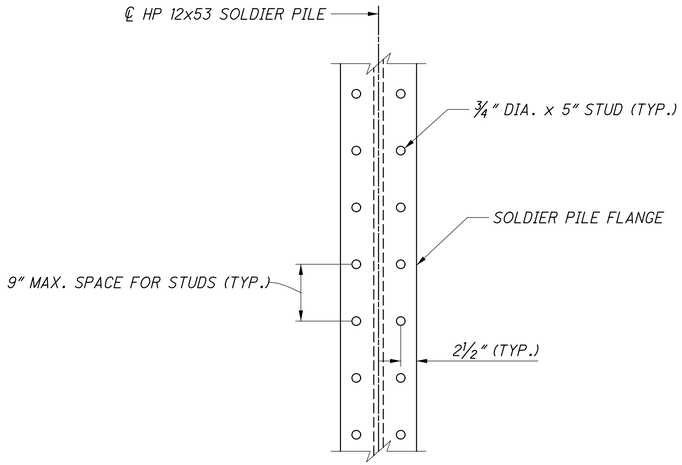
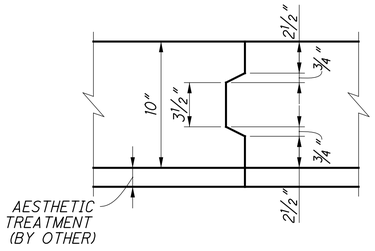


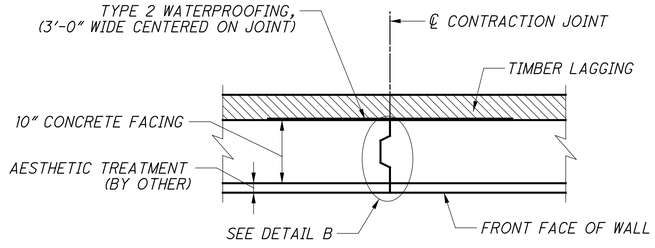
WALL DRAINAGE DETAIL



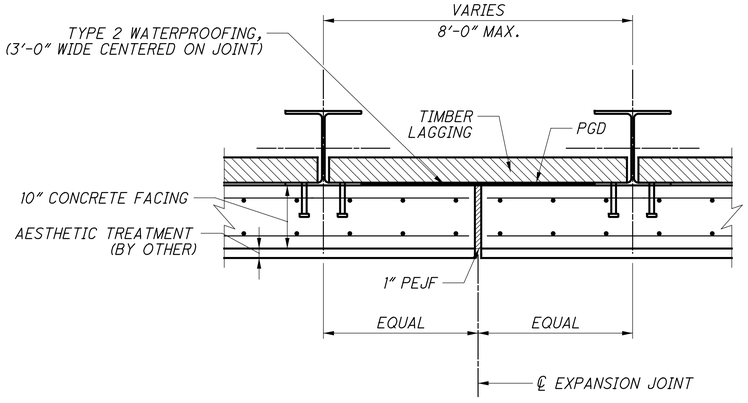
SOLDIER PILE ELEVATION



DETAIL B



CONTRACTION JOINT DETAIL



EXPANSION JOINT DETAIL

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RETAINING WALL DETAILS - 1
RETAINING WALL ALONG REFERENCE LINE PP-NE

HAM-PLAINFIELD RD
ROUNDABOUTS
PID No. 103416

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RETAINING WALL ELEVATION TABLE

SOLDIER PILE NUMBER	PILE STATION	TOP OF PILE EL. A	TOP OF DRILLED SHAFT EL. B	APPROX. PILE TIP EL. C
1	203+99.73	809.75	808.61	796.00
2	203+94.61	810.30	808.61	796.00
3	203+86.43	811.18	808.61	796.00
4	203+78.25	812.06	808.61	796.00
5	203+70.06	812.50	807.97	796.00
6	203+61.88	812.50	807.97	796.00
7	203+53.70	812.50	807.97	796.00
8	203+45.51	812.50	807.30	796.00
9	203+37.33	812.50	807.30	796.00
10	203+29.15	812.50	807.30	796.00
11	203+20.96	812.50	806.51	796.00
12	203+12.78	812.50	806.51	796.00
13	203+04.60	812.50	806.51	796.00
14	202+96.41	812.50	805.62	796.00
15	202+88.23	812.50	805.62	796.00
16	202+80.05	812.50	805.62	796.00
17	202+71.86	812.50	805.04	796.00
18	202+63.68	812.50	805.04	796.00
19	202+55.49	812.50	805.04	796.00
20	202+47.31	812.50	804.62	796.00
21	202+39.13	812.50	804.62	796.00
22	202+30.94	812.50	804.62	796.00
23	202+22.76	812.50	803.83	796.00
24	202+14.58	812.50	803.83	796.00
25	202+03.80	812.50	803.83	796.00
26	201+92.85	811.73	803.02	795.52
27	201+81.91	810.19	803.02	795.52
28	201+71.18	808.64	803.02	795.52
29	201+61.94	807.10	803.02	795.52
30	201+52.69	805.56	803.02	795.52
31	201+46.92	804.60	803.02	795.52

REINFORCING STEEL LIST

MARK	NUMBER TOTAL	LENGTH	WEIGHT	TYPE	DIMENSIONS A	B	C	D	E	R	INC
RETAINING WALL											
	2 SR	1'-9"									
W501	OF	TO	169	STR							1¼"
	26	4'-6"									
W502	50	5'-2"	269	STR							
W503	50	5'-10"	304	STR							
W504	50	6'-7"	343	STR							
W505	50	7'-6"	391	STR							
W506	50	8'-1"	422	STR							
W507	50	8'-6"	443	STR							
W508	50	9'-4"	488	STR							
	2 SR	5'-5"									
W509	OF	TO	400	STR							2¼"
	25	9'-11"									
	2 SR	2'-2"									
W510	OF	TO	143	STR							2¼"
	18	5'-5"									
W511	4	25'-2"	105	STR							
W512	2	22'-5"	47	STR							
W513	2	13'-6"	28	STR							
W514	2	4'-6"	9	STR							
W515	2	25'-3"	53	STR							
W516	134	23'-8"	3308	STR							
	2 SR	4'-7"									
W517	OF	TO	103	STR							5'-2¼"
	4	20'-2"									
W518	2	24'-1"	50	STR							
W519	6	17'-2"	107	STR							
W520	2	2'-10"	6	STR							
W521	2	8'-1"	17	STR							
W522	2	13'-3"	28	STR							
W523	2	17'-5"	36	STR							
	SUB-TOTAL		7269								

RETAINING WALL ESTIMATED QUANTITIES

CALCULATED BY: JMV DATE: 8/14/20
CHECKED BY: JCS DATE: 8/14/20

ITEM	ITEM EXT.	TOTAL	UNIT	DESCRIPTION	ABUTS.	PIERS	SUPER STR.	GENERAL	SEE SHT. NO.
503	21300	LUMP		UNCLASSIFIED EXCAVATION				LUMP	
507	00400	481	FT	STEEL PILES, MISC.: SOLDER PILES (HP12X53)				481	1/8
509	10000	7269	LB	EPOXY COATED REINFORCING STEEL				7269	
511	46010	54	CY	CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING				54	
511	46510	9	CY	CLASS QC1 CONCRETE, FOOTING				9	
512	33000	24	SY	TYPE 2 WATERPROOFING				24	
513	20000	504	EACH	WELDED STUD SHEAR CONNECTORS				504	1/8
516	13600	14	SF	1" PREFORMED EXPANSION JOINT FILLER				14	
518	21200	18	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC				18	
518	40000	237	FT	6" PERFORATED CORRUGATED PLASTIC PIPE				237	
518	40010	30	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS				30	
524	94503	292	FT	DRILLED SHAFTS, 24" DIAMETER, ABOVE BEDROCK, AS PER PLAN				292	1/8
524	94505	236	FT	DRILLED SHAFTS, 24" DIAMETER, INTO BEDROCK, AS PER PLAN				236	1/8
610	50010	1406	SF	RETAINING WALL, MISC.: TIMBER LAGGING				1406	1/8
610	50010	1406	SF	RETAINING WALL, MISC.: PREFABRICATED GEOCOMPOSITE DRAIN				1406	1/8

NOTES:

ALL REINFORCING STEEL SHALL BE EPOXY COATED, GRADE 60.

LENGTHS ARE RECORDED IN FEET - INCHES.

"STR" IN THE TYPE COLUMN INDICATES STRAIGHT BARS.

ALL DIMENSIONS ARE MEASURED OUT-TO-OUT OF BAR.

THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, AND THE FIRST TWO DIGITS WHERE FOUR DIGITS ARE USED, INDICATES THE BAR SIZE NUMBER. FOR EXAMPLE, P601 IS A NO. 6 BAR. "R" INDICATES INSIDE RADIUS, UNLESS OTHERWISE NOTED. "STD" WRITTEN IN PLACE OF A DIMENSION INDICATES A STANDARD BEND AT THE END OF THE BAR.

DESIGN AGENCY
STRUCTUREPOINT LLC
2550 CORPORATE EXCHANGE DR. STE 300
COLUMBUS, OH 43231
TEL: 614.901.7900 FAX: 614.901.7901
www.structurepointllc.com

DESIGNED JCS | CHECKED CLB
DRAWN BMP | REVISED
REVIEWED SFJ | DATE 12/9/2019
STRUCTURE FILE NUMBER

ELEVATION TABLE
RETAINING WALL ALONG REFERENCE LINE PP-NE

HAM-PLAINFIELD RD
ROUNDABOUTS
PID No. 103416

8 / 8

335
335

lstutler
1/25/2021 4:58:46 PM
D:\2013\00482\C. Design\HAM 103416\Design\Structures\Wall_111\Sheets\103416_WD007.dgn