

P:\ADR\2019\316501_108770_LIC-SR79-0398 Buckeye Lake\108770_Design\Roadway\Sheets\108770_GG002.dgn 3/14/2022 8:52:31 AM bkljngberg

SHEET NUMBER											PARTICIPATION		ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
6	8	18	24	25	26	27	28	29	31	63	01/NFA/BR/BUCK	02/ENH/OT/BUCK						
PAVEMENT																		
			434	902	926	1,151	326		672	32	672	3,771	252	01500	4,443	FT	FULL DEPTH PAVEMENT SAWING	
					2	15	3					20	253	01000	20	SY	PAVEMENT REPAIR	
							19		57	5	57	24	301	46000	81	CY	ASPHALT CONCRETE BASE, PG64-22	
							13		307	17	307	30	304	20000	337	CY	AGGREGATE BASE	
							8		25	2	25	10	407	10000	35	GAL	TACK COAT	
							6		19	1	19	7	441	50000	26	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22	
										64		64	452	12050	64	SY	8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC MS	
									1,265		1,265		452	15010	1,265	SY	12" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC IP	
			418	854	664	787	173					2,896	609	12001	2,896	FT	COMBINATION CURB AND GUTTER, TYPE 2, AS PER PLAN	
			96		300	318		26	22		22	740	609	26000	762	FT	CURB, TYPE 6	
WATER WORK																		
1												1	638	98000	1	EACH	WATER WORK, MISC.: 12" WATERLINE LOWERING	
TRAFFIC CONTROL																		
									2		2		626	00102	2	EACH	BARRIER REFLECTOR, TYPE 1, (BI-DIRECTIONAL)	
									4		4		626	00110	4	EACH	BARRIER REFLECTOR, TYPE 2, (BI-DIRECTIONAL)	
		104										104	630	02100	104	FT	GROUND MOUNTED SUPPORT, NO. 2 POST	
		111										13	630	03100	111	FT	GROUND MOUNTED SUPPORT, NO. 3 POST	
		298											298	06400	298	FT	GROUND MOUNTED STRUCTURAL BEAM SUPPORT, S4X7.7	
		230										7.5	630	80100	174	SF	SIGN, FLAT SHEET	
		16										11	630	84900	16	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
		12										7	630	86002	12	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
		8										8	630	97700	8	EACH	SIGNING, MISC.: SOLAR-POWERED RECTANGULAR FLASHING BEACON (RRFB) SIGN ASSEMBLY	
		1,520										1,520	644	00620	1,520	FT	CROSSWALK LINE, 12"	
		15										15	644	19000	15	EACH	SHARED LANE MARKING	
		0.11										0.11	646	10000	0.11	MILE	EDGE LINE, 4"	
		0.08										0.05	646	10200	0.08	MILE	CENTER LINE	
		348										81	646	10300	348	FT	CHANNELIZING LINE, 8"	
		34										34	646	10400	34	FT	STOP LINE	
		3										2	646	20300	3	EACH	LANE ARROW	
		1										1	646	20400	1	EACH	WORD ON PAVEMENT, 72"	
TRAFFIC SIGNALS																		
FOR QUANTITIES, SEE SHEET 72/118																		
STRUCTURES OVER 20 FOOT SPAN (LIC-MR1090-0.06098)																		
FOR ESTIMATED QUANTITIES, SEE SHEET 84/118																		
MAINTENANCE OF TRAFFIC																		
		2										2	614	40050	2	EACH	BUSINESS ENTRANCE SIGN	
		2										1	616	10000	2	MGAL	WATER	
INCIDENTALS																		
													614	11000	LS		MAINTAINING TRAFFIC	
												4	619	16010	7	MONTH	FIELD OFFICE, TYPE B	
													623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
													624	10001	LS		MOBILIZATION, AS PER PLAN	

GENERAL SUMMARY

LIC-SR79-03.64

CALCULATED
BCK
CHECKED
JTH

REF NO.	SHEET NO.	STATION	SIDE	630	630	630	630	630
				GROUND MOUNTED SUPPORT, NO. 2 POST	GROUND MOUNTED SUPPORT, NO. 3 POST	GROUND MOUNTED STRUCTURAL BEAM SUPPORT, S4X7.7	SIGN, FLAT SHEET	SIGNING, MISC.: SOLAR-POWERED RECTANGULAR FLASHING BEACON (RRFB) SIGN ASSEMBLY
				FT	FT	FT	SF	EACH
PC-1	67	29+27	LEFT			37	12.75	1
PC-2	67	29+29	LEFT			38	12.75	1
PC-3	67	29+32	RIGHT			37	12.75	1
PC-4	67	29+29	RIGHT			37	12.75	1
PC-5	68	36+74	LEFT			38	12.75	1
PC-6	68	36+78	LEFT			37	12.75	1
PC-7	68	36+81	RIGHT			37	12.75	1
PC-8	68	36+78	RIGHT			37	12.75	1
S-1	67	29+49	RIGHT	13				3
S-2	67	31+79	LEFT	13				3
S-3	67	33+12	RIGHT	13				3
S-4	68	36+34	LEFT	13				3
S-5	68	40+79	LEFT	13				3
S-6	68	37+62	RIGHT	13				3
S-7	69	45+45	LEFT		27			9
S-8	69	46+05	LEFT	13				3
S-9	69	44+39	RIGHT	13				3
S-10	70	47+08	LEFT		14			5
S-11	70	48+20	LEFT		13			6.25
S-12	70	48+62	LEFT		13			6.25
S-13	70	49+10	RIGHT		31			14
S-14	71	98+50	RIGHT		13			7.5
TOTAL CARRIED TO GENERAL SUMMARY				104	111	298	174	8

REF NO.	SHEET NO.	STATION	SIDE	630	630
				REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL
				EACH	EACH
R-1	69	45+72	LEFT	1	1
R-2	70	47+61	LEFT	1	1
R-3	70	50+12	LEFT	1	1
R-4	70	49+19	RIGHT	2	2
R-5	71	97+00	LEFT	4	1
R-6	71	97+30	LEFT	2	1
R-7	71	97+91	LEFT	1	1
R-8	71	98+45	LEFT	1	1
R-9	71	98+73	LEFT	1	1
R-10	71	98+73	RIGHT	1	1
R-11	71	99+50	LEFT	1	1
TOTAL CARRIED TO GENERAL SUMMARY				16	12

REF NO.	SHEET NO.	STATION	SIDE	644	644	646	646	646	646	646	646	646
				CROSSWALK LINE, 12"	SHARED LANE MARKING	EDGE LINE, 4"	CENTER LINE	CHANNELIZING LINE, 8"	STOP LINE	LANE ARROW	WORD ON PAVEMENT, 72"	
				FT	EACH	MILE	MILE	FT	FT	EACH	EACH	
		FROM	TO									
CW-1	67	29+29.50	29+35.50	LEFT	94							
CW-2	67	29+22.50	29+28.50	RIGHT	94							
CW-3	68	36+77.50	36+83.50	LEFT	95							
CW-4	68	36+71.50	36+77.50	RIGHT	104							
CW-5	68	36+88.00	39+09.00	LEFT	430							
CW-6	69	41+07.00	42+47.00	LEFT	271							
CW-7	70	48+20.00	48+58.00	LEFT	66							
CW-8	70	48+33.00	48+65.00	RIGHT	52							
CW-9	70	48+76.00	48+91.00	RIGHT	29							
CW-10	70	49+17.50	49+23.50	LT/RT	132							
CW-11	70	49+36.00	50+19.00	RIGHT	153							
SU-1	67	29+54.00	LEFT		1							
SU-2	67	29+50.00	RIGHT		1							
SU-3	67	31+75.00	LEFT		1							
SU-4	67	33+95.00	LEFT		1							
SU-5	67	31+00.00	RIGHT		1							
SU-6	67	33+18.00	RIGHT		1							
SU-7	68	36+23.00	LEFT		1							
SU-8	68	40+91.00	LEFT		1							
SU-9	68	35+55.00	RIGHT		1							
SU-10	68	37+62.00	RIGHT		1							
SU-11	68	39+77.00	RIGHT		1							
SU-12	69	45+75.00	LEFT		1							
SU-13	69	42+05.00	RIGHT		1							
SU-14	69	44+30.00	RIGHT		1							
SU-15	69	46+55.00	RIGHT		1							
EL-1	71	96+94.00	99+61.44	LEFT			0.05					
EL-2	71	96+94.00	99+80.74	RIGHT			0.06					
CL-1	70	47+10.00	47+93.00	LEFT				0.02				
CL-2	70	47+14.00	47+65.00	LT/RT				0.01				
CL-3	71	96+94.00	99+53.00	LEFT				0.05				
CH-1	70	47+65.00	48+46.00	RIGHT					81			
CH-2	71	96+94.00	99+53.00	RIGHT					267			
SL-1	71	99+53.00	LT/RT							34		
LA-1	70	47+95.00	LEFT								1	
LA-2	71	98+11.00	€								1	
LA-3	71	99+43.00	€								1	
WP-1	71	98+77.00	€									1
TOTAL CARRIED TO GENERAL SUMMARY				1520	15	0.11	0.08	348	34	3	1	

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ITEM 630, GROUND MOUNTED STRUCTURAL BEAM SUPPORT, S4X7.7 (CONTINUED)

PC-4
 GROUND ELEVATION: 890.33
 EDGE OF SIDEWALK ELEVATION: 890.62
 HEIGHT OF SIGN 1: 5.66'
 HEIGHT OF SIGN 2: 1.50'
 2 BEAMS NEEDED
 TOTAL: 2 X (5.66' + 1.50' + (890.62 - 890.33) + 4.00' + 7.00') = 36.90'

PC-5
 GROUND ELEVATION: 885.77
 EDGE OF CURB ELEVATION: 886.49
 HEIGHT OF SIGN 1: 5.66'
 HEIGHT OF SIGN 2: 1.50'
 2 BEAMS NEEDED
 TOTAL: 2 X (5.66' + 1.50' + (886.49 - 885.77) + 4.00' + 7.00') = 37.76'

PC-6
 GROUND ELEVATION: 886.34
 EDGE OF CURB ELEVATION: 886.65
 HEIGHT OF SIGN 1: 5.66'
 HEIGHT OF SIGN 2: 1.50'
 2 BEAMS NEEDED
 TOTAL: 2 X (5.66' + 1.50' + (886.65 - 886.34) + 4.00' + 7.00') = 36.94'

PC-7
 GROUND ELEVATION: 886.71
 EDGE OF SIDEWALK ELEVATION: 886.53
 HEIGHT OF SIGN 1: 5.66'
 HEIGHT OF SIGN 2: 1.50'
 2 BEAMS NEEDED
 TOTAL: 2 X (5.66' + 1.50' + (886.71 - 886.53) + 4.00' + 7.00') = 36.68'

PC-8
 GROUND ELEVATION: 886.29
 EDGE OF SIDEWALK ELEVATION: 886.51
 HEIGHT OF SIGN 1: 5.66'
 HEIGHT OF SIGN 2: 1.50'
 2 BEAMS NEEDED
 TOTAL: 2 X (5.66' + 1.50' + (886.29 - 886.51) + 4.00' + 7.00') = 36.76'

ITEM 630, SIGN, FLAT SHEET

- S-1: W16-1P-18: 1.50' X 2.00' = 3.00 SF
- S-2: W16-1P-18: 1.50' X 2.00' = 3.00 SF
- S-3: W16-1P-18: 1.50' X 2.00' = 3.00 SF
- S-4: W16-1P-18: 1.50' X 2.00' = 3.00 SF
- S-5: W16-1P-18: 1.50' X 2.00' = 3.00 SF
- S-6: W16-1P-18: 1.50' X 2.00' = 3.00 SF
- S-7: W11-8-36: 3.00' X 3.00' = 9.00 SF
- S-8: W16-1P-18: 1.50' X 2.00' = 3.00 SF
- S-9: W16-1P-18: 1.50' X 2.00' = 3.00 SF
- S-10: R4-7B-24: 2.00' X 2.50' = 5.00 SF
- S-11: R3-2-30: 2.50' X 2.50' = 6.25 SF
- S-12: R3-2-30: 2.50' X 2.50' = 6.25 SF
- S-13: R3-H8cg: 2.50' X 4.00' = 10.00 SF
 EM-1-24: 2.00' X 2.00' = 4.00 SF
 TOTAL: 10.00 SF + 4.00 SF = 14.00 SF
- S-14: R3-H8bh-36: 3.00' X 2.50' = 7.50 SF

ITEM 630, SIGN, FLAT SHEET (CONTINUED)

PC-1
 W11-2-48: 3.00' X 3.00' = 9.00 SF
 W16-7PR-30: 2.50' X 1.50' = 3.75 SF
 TOTAL: 9.00 SF + 3.75 SF = 12.75 SF

PC-2
 W11-2-48: 3.00' X 3.00' = 9.00 SF
 W16-7PL-30: 2.50' X 1.50' = 3.75 SF
 TOTAL: 9.00 SF + 3.75 SF = 12.75 SF

PC-3
 W11-2-48: 3.00' X 3.00' = 9.00 SF
 W16-7PR-30: 2.50' X 1.50' = 3.75 SF
 TOTAL: 9.00 SF + 3.75 SF = 12.75 SF

PC-4
 W11-2-48: 3.00' X 3.00' = 9.00 SF
 W16-7PL-30: 2.50' X 1.50' = 3.75 SF
 TOTAL: 9.00 SF + 3.75 SF = 12.75 SF

PC-5
 W11-2-48: 3.00' X 3.00' = 9.00 SF
 W16-7PR-30: 2.50' X 1.50' = 3.75 SF
 TOTAL: 9.00 SF + 3.75 SF = 12.75 SF

PC-6
 W11-2-48: 3.00' X 3.00' = 9.00 SF
 W16-7PL-30: 2.50' X 1.50' = 3.75 SF
 TOTAL: 9.00 SF + 3.75 SF = 12.75 SF

PC-7
 W11-2-48: 3.00' X 3.00' = 9.00 SF
 W16-7PR-30: 2.50' X 1.50' = 3.75 SF
 TOTAL: 9.00 SF + 3.75 SF = 12.75 SF

PC-8
 W11-2-48: 3.00' X 3.00' = 9.00 SF
 W16-7PL-30: 2.50' X 1.50' = 3.75 SF
 TOTAL: 9.00 SF + 3.75 SF = 12.75 SF

ITEM 644, CROSSWALK LINE, 12"

- CW-1: TOTAL: 23.00 FT + 23.00 FT + 8 X 6.00 FT = 94.00 FT
- CW-2: TOTAL: 23.00 FT + 23.00 FT + 8 X 6.00 FT = 94.00 FT
- CW-3: TOTAL: 23.50 FT + 23.50 FT + 8 X 6.00 FT = 95.00 FT
- CW-4: TOTAL: 25.00 FT + 25.00 FT + 9 X 6.00 FT = 104.00 FT
- CW-5: TOTAL: 221.00 FT + 209.00 FT = 430.00 FT
- CW-6: TOTAL: 140.00 FT + 131.00 FT = 271.00 FT
- CW-7: TOTAL: 38.00 FT + 28.00 FT = 66.00 FT
- CW-8: TOTAL: 30.00 FT + 22.00 FT = 52.00 FT
- CW-9: TOTAL: 15.00 FT + 14.00 FT = 29.00 FT
- CW-10: TOTAL: 66.00 FT + 66.00 FT = 132.00 FT
- CW-11: TOTAL: 83.00 FT + 70.00 FT = 153.00 FT

ITEM 646, EDGE LINE, 4"

EL-1: LENGTH: 289 FT / 5280 = 0.05 MILES

EL-2: LENGTH: 340 FT / 5280 = 0.06 MILES

ITEM 646, CENTER LINE

CL-1: LENGTH: 81 FT / 5280 = 0.02 MILES

CL-2: LENGTH: 54 FT / 5280 = 0.01 MILES

CL-3: LENGTH: 251 FT / 5280 = 0.05 MILES

ITEM 659, SOIL ANALYSIS TEST

RATE = 1 TEST / 10,000 CY TOPSOIL - MINIMUM 2 TESTS
 TOTAL = 1 TEST / 10,000 CY X 533 CY = 0.05 TEST
 2 EACH

ITEM 659, TOPSOIL

RATE: 111 CY / 1,000 SY
 TOTAL = 4801 SY X 111 CY / 1,000 SY = 532.91 CY

ITEM 659, SEEDING AND MULCHING

AREAS FROM CROSS SECTION SHEETS
 SHEET 33 = 3664 SY
 SHEET 50 = 875 SY
 SHEET 54 = 262 SY
 TOTAL = 3664 SY + 875 SY + 262 SY = 4801 SY

ITEM 659, REPAIR SEEDING AND MULCHING

RATE = 5% OF SEEDING AND MULCHING AREA
 TOTAL = 4801 SY X 0.05 = 240.05 SY

ITEM 659, COMMERCIAL FERTILIZER

RATE = 30 LBS / 1,000 SF
 AREA = 4801 SY X 9 = 43,209 SF
 TOTAL = 30 LBS X 43,209 SF / 1,000 SF / 2000 = 0.65 TON

ITEM 659, LIME

TOTAL = 4801 SY X 9 / 43,560 = 0.99 ACRE

ITEM 659, WATER

RATE = 300 GAL / 1,000 SF
 AREA = 4801 SY X 9 = 43,209 SF
 APPLICATIONS: 2
 TOTAL: 43,209 SF X 2 X 300 GAL / 1,000 SF
 = 25,925.4 GAL = 25.93 MGAL

ITEM 670, SLOPE EROSION PROTECTION MAT, TYPE A

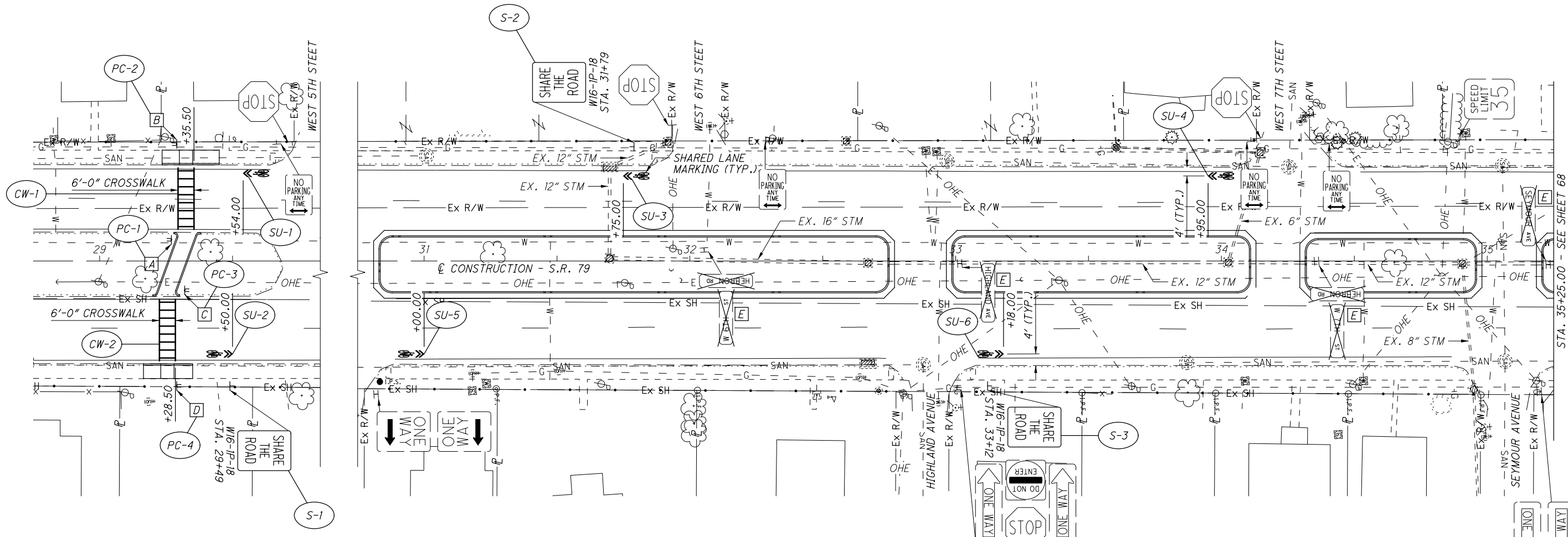
EC-1
 PLAN MEASURED AREA: 7247.75 SF
 TOTAL: 7247.75 SF / 9 = 805.31 SY

EC-2
 PLAN MEASURED AREA: 2755.62 SF
 TOTAL: 2755.62 SF / 9 = 306.18 SY

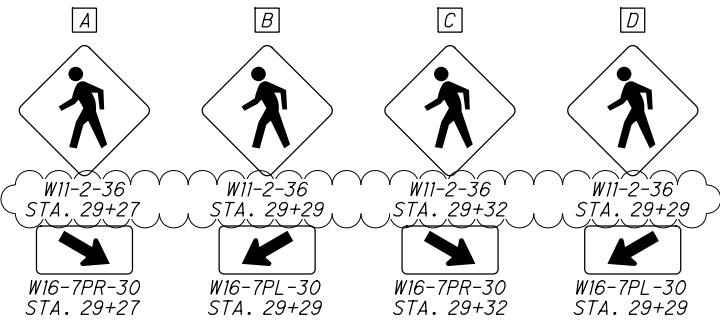
CALCULATED
 JTH
 CHECKED
 BCK

CALCULATIONS

LIC-SR79-03.64



LEGEND



NOTE

SIGNS "A", "B", "C", & "D" SHALL HAVE PEDESTRIAN BUTTONS AND RRFB.

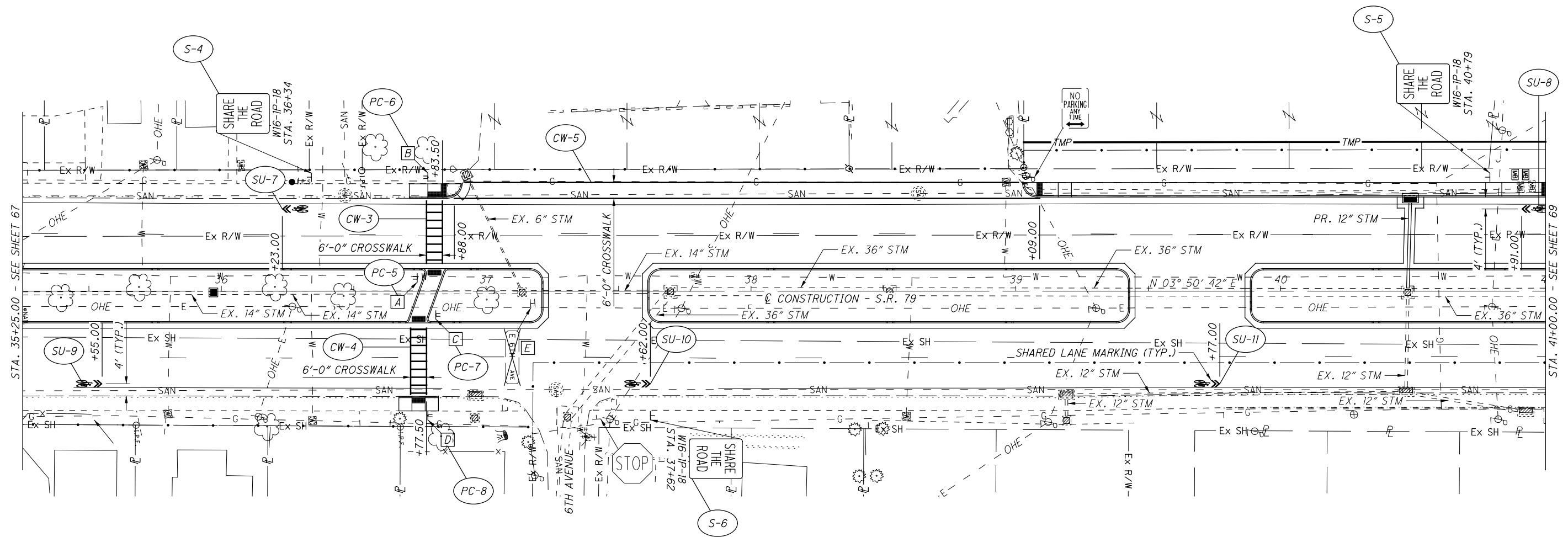
E EXISTING SIGNS TO BE REMOVED BY OTHERS

CALCULATED BCK CHECKED JTH

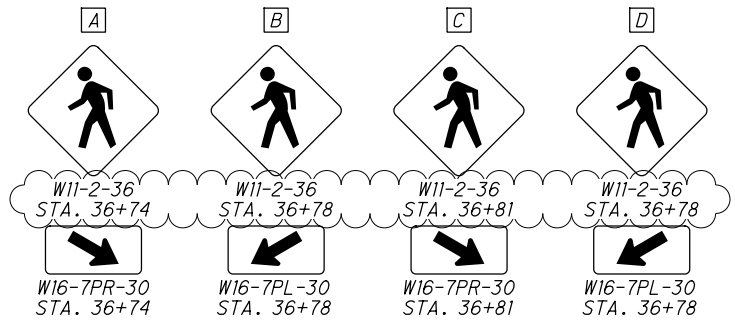
HORIZONTAL SCALE IN FEET

PAVEMENT MARKING & SIGNING PLAN
STA. 28+75.00 TO STA. 35+25.00

LIC-SR79-03.64



LEGEND



NOTE

SIGNS "A", "B", "C", & "D" SHALL HAVE PEDESTRIAN BUTTONS AND RRFB.