

P:\ADR\2019\316501\_108770\_LIC-SR79-0398 Buckeye Lake\108770\_Design\Roadway\Sheets\108770\_GG002.dgn 3/14/2022 8:52:44 AM bklingsberg

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						
<b>PAVEMENT</b>																		
			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	
<b>WATER WORK</b>																		
1												1	638	98000	1	EACH	WATER WORK, MISC.: 12" WATERLINE LOWERING	
<b>TRAFFIC CONTROL</b>																		
								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											630	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"	
<b>TRAFFIC SIGNALS</b>																		
FOR QUANTITIES, SEE SHEET 72/118																		
<b>STRUCTURES OVER 20 FOOT SPAN (LIC-MR1090-0.06098)</b>																		
FOR ESTIMATED QUANTITIES, SEE SHEET 84/118																		
<b>MAINTENANCE OF TRAFFIC</b>																		
	2											2	614	40050	2	EACH	BUSINESS ENTRANCE SIGN	
	2											1	616	10000	2	MGAL	WATER	
<b>INCIDENTALS</b>																		
													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
<b>TOTAL CARRIED TO GENERAL SUMMARY</b>				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
<b>TOTAL CARRIED TO GENERAL SUMMARY</b>				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
<b>TOTAL CARRIED TO GENERAL SUMMARY</b>				1520	15	0.11	0.08	348	34	3	1	

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**ITEM 630, GROUND MOUNTED STRUCTURAL BEAM SUPPORT, 54X7.7 (CONTINUED)**  
 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-4

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-5

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-6

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-7

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'

PC-8

**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)**  
 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-1

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-2

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-3

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-4

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-5

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-6

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-7

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-8

**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

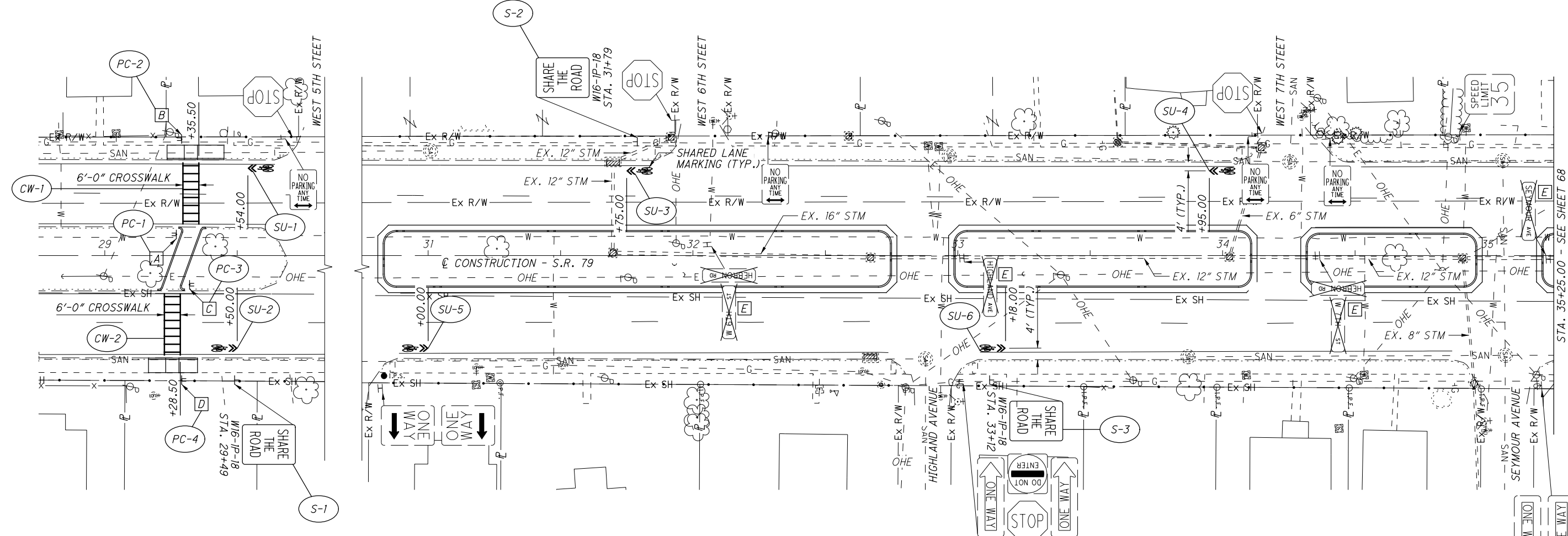
**ITEM 659, COMMERCIAL FERTILIZER**  
 RATE = 30 LBS / 1,000 SF  
 AREA = 4801 SY X 9 = 43,209 SF  
 TOTAL = 30 LBS X 43,209 SF / 1,000 SF / 2000 = 0.65 TON

**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



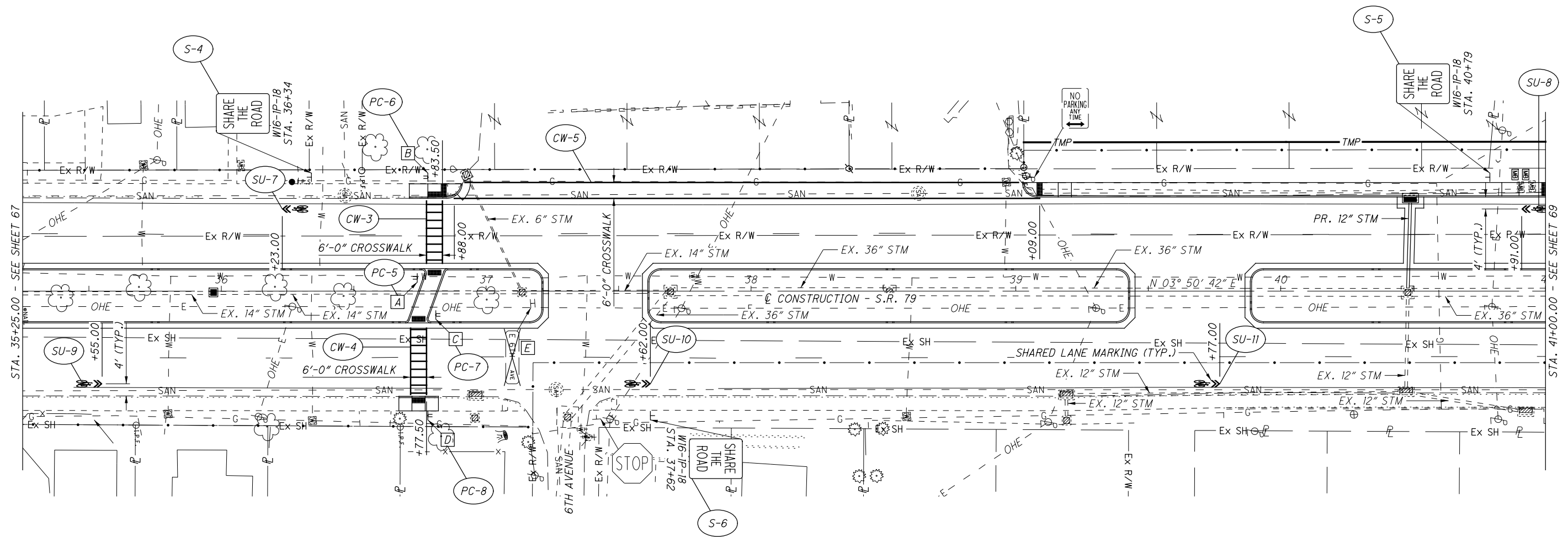
**LEGEND**

- |                          |                          |                          |                          |
|--------------------------|--------------------------|--------------------------|--------------------------|
| A                        | B                        | C                        | D                        |
|                          |                          |                          |                          |
| W11-2-36<br>STA. 29+27   | W11-2-36<br>STA. 29+29   | W11-2-36<br>STA. 29+32   | W11-2-36<br>STA. 29+29   |
|                          |                          |                          |                          |
| W16-7PR-30<br>STA. 29+27 | W16-7PL-30<br>STA. 29+29 | W16-7PR-30<br>STA. 29+32 | W16-7PL-30<br>STA. 29+29 |

**NOTE**

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

[E] EXISTING SIGNS TO BE REMOVED BY OTHERS



**LEGEND**

- |                          |                          |                          |                          |
|--------------------------|--------------------------|--------------------------|--------------------------|
| A                        | B                        | C                        | D                        |
|                          |                          |                          |                          |
| W11-2-36<br>STA. 36+74   | W11-2-36<br>STA. 36+78   | W11-2-36<br>STA. 36+81   | W11-2-36<br>STA. 36+78   |
|                          |                          |                          |                          |
| W16-7PR-30<br>STA. 36+74 | W16-7PL-30<br>STA. 36+78 | W16-7PR-30<br>STA. 36+81 | W16-7PL-30<br>STA. 36+78 |

**NOTE**

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