

SHEET NUMBER														PARTICIPATION			ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
P.157	P.160	P.161												01/S>2 /04	02/S>2/ 43/TCSE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
																			86													86		625	25400	86	FT	CONDUIT, 2", 725.04			130													130		625	25500	130	FT	CONDUIT, 3", 725.04			388													388		625	25600	388	FT	CONDUIT, 4", 725.04			360													360		625	29000	360	FT	TRENCH			6													6		625	30706	6	EACH	PULL BOX, 725.08, 24"			9													9		625	32000	9	EACH	GROUND ROD			360													360		625	36011	360	FT	UNDERGROUND WARNING/MARKING TAPE, AS PER PLAN	P.157	1														1		625	76000	1	EACH	ARC FLASH CALCULATIONS AND LABEL (TRU-46-7.81)	P.157		7.5													7.5		630	80100	7.5	SF	SIGN, FLAT SHEET			8													8		632	05006	8	EACH	VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, BLACK			4													4		632	05086	4	EACH	VEHICULAR SIGNAL HEAD, (LED), 5-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, BLACK			3	5												8		632	20731	8	EACH	PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN, AS PER PLAN	P.157		3	5												8		632	20751	8	EACH	ACCESSIBLE PEDESTRIAN PUSHBUTTON, AS PER PLAN	P.157		12													12		632	25000	12	EACH	COVERING OF VEHICULAR SIGNAL HEAD			3	5												8		632	25010	8	EACH	COVERING OF PEDESTRIAN SIGNAL HEAD			200													200		632	40501	200	FT	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG, AS PER PLAN	P.157		1100	875												1975		632	40701	1975	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG, AS PER PLAN	P.157		4													4		632	64010	4	EACH	SIGNAL SUPPORT FOUNDATION			4													4		632	64020	4	EACH	PEDESTAL FOUNDATION			75													75		632	67301	75	FT	POWER CABLE, 3 CONDUCTOR, NO. 8 AWG, AS PER PLAN	P.157		1													1		632	70001	1	EACH	POWER SERVICE, AS PER PLAN	P.157		1													1		632	70600	1	EACH	CONDUIT RISER, 3" DIAMETER			4													4		632	72110	4	EACH	SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 4			4													4		632	89600	4	EACH	PEDESTAL, 8'			1													1		632	90100	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION			8													8		632	90201	8	EACH	REUSE OF VEHICULAR SIGNAL HEAD, AS PER PLAN	P.157		9													9		632	90400	9	EACH	SIGNALIZATION, MISC.: FOUNDATION TEST HOLE	P.157		1													1		633	65511	1	EACH	CABINET, TYPE TS-2, AS PER PLAN	P.157		1													1		633	67101	1	EACH	CABINET FOUNDATION, AS PER PLAN	P.157		1													1		633	67200	1	EACH	CONTROLLER WORK PAD			1													1		633	75001	1	EACH	UNINTERRUPTIBLE POWER SUPPLY (UPS), 1000 WATT, AS PER PLAN	P.158		1													1		809	65990	1	EACH	ITS DEVICE, MISC.: REUSE COMMUNICATIONS DEVICE	P.157			2												2		809	69001	2	EACH	ADVANCE RADAR DETECTION, AS PER PLAN	P.158			4												4		809	69101	4	EACH	STOP LINE RADAR DETECTION, AS PER PLAN	P.158		1													1		809	69123	1	EACH	ATC CONTROLLER, AS PER PLAN	P.158			441												441		809	69220	441	FT	PREEMPT DETECTOR CABLE	
	86													86		625	25400	86	FT	CONDUIT, 2", 725.04			130													130		625	25500	130	FT	CONDUIT, 3", 725.04			388													388		625	25600	388	FT	CONDUIT, 4", 725.04			360													360		625	29000	360	FT	TRENCH			6													6		625	30706	6	EACH	PULL BOX, 725.08, 24"			9													9		625	32000	9	EACH	GROUND ROD			360													360		625	36011	360	FT	UNDERGROUND WARNING/MARKING TAPE, AS PER PLAN	P.157	1														1		625	76000	1	EACH	ARC FLASH CALCULATIONS AND LABEL (TRU-46-7.81)	P.157		7.5													7.5		630	80100	7.5	SF	SIGN, FLAT SHEET			8													8		632	05006	8	EACH	VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, BLACK			4													4		632	05086	4	EACH	VEHICULAR SIGNAL HEAD, (LED), 5-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, BLACK			3	5												8		632	20731	8	EACH	PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN, AS PER PLAN	P.157		3	5												8		632	20751	8	EACH	ACCESSIBLE PEDESTRIAN PUSHBUTTON, AS PER PLAN	P.157		12													12		632	25000	12	EACH	COVERING OF VEHICULAR SIGNAL HEAD			3	5												8		632	25010	8	EACH	COVERING OF PEDESTRIAN SIGNAL HEAD			200													200		632	40501	200	FT	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG, AS PER PLAN	P.157		1100	875												1975		632	40701	1975	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG, AS PER PLAN	P.157		4													4		632	64010	4	EACH	SIGNAL SUPPORT FOUNDATION			4													4		632	64020	4	EACH	PEDESTAL FOUNDATION			75													75		632	67301	75	FT	POWER CABLE, 3 CONDUCTOR, NO. 8 AWG, AS PER PLAN	P.157		1													1		632	70001	1	EACH	POWER SERVICE, AS PER PLAN	P.157		1													1		632	70600	1	EACH	CONDUIT RISER, 3" DIAMETER			4													4		632	72110	4	EACH	SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 4			4													4		632	89600	4	EACH	PEDESTAL, 8'			1													1		632	90100	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION			8													8		632	90201	8	EACH	REUSE OF VEHICULAR SIGNAL HEAD, AS PER PLAN	P.157		9													9		632	90400	9	EACH	SIGNALIZATION, MISC.: FOUNDATION TEST HOLE	P.157		1													1		633	65511	1	EACH	CABINET, TYPE TS-2, AS PER PLAN	P.157		1													1		633	67101	1	EACH	CABINET FOUNDATION, AS PER PLAN	P.157		1													1		633	67200	1	EACH	CONTROLLER WORK PAD			1													1		633	75001	1	EACH	UNINTERRUPTIBLE POWER SUPPLY (UPS), 1000 WATT, AS PER PLAN	P.158		1													1		809	65990	1	EACH	ITS DEVICE, MISC.: REUSE COMMUNICATIONS DEVICE	P.157			2												2		809	69001	2	EACH	ADVANCE RADAR DETECTION, AS PER PLAN	P.158			4												4		809	69101	4	EACH	STOP LINE RADAR DETECTION, AS PER PLAN	P.158		1													1		809	69123	1	EACH	ATC CONTROLLER, AS PER PLAN	P.158			441												441		809	69220	441	FT	PREEMPT DETECTOR CABLE																			
	130													130		625	25500	130	FT	CONDUIT, 3", 725.04			388													388		625	25600	388	FT	CONDUIT, 4", 725.04			360													360		625	29000	360	FT	TRENCH			6													6		625	30706	6	EACH	PULL BOX, 725.08, 24"			9													9		625	32000	9	EACH	GROUND ROD			360													360		625	36011	360	FT	UNDERGROUND WARNING/MARKING TAPE, AS PER PLAN	P.157	1														1		625	76000	1	EACH	ARC FLASH CALCULATIONS AND LABEL (TRU-46-7.81)	P.157		7.5													7.5		630	80100	7.5	SF	SIGN, FLAT SHEET			8													8		632	05006	8	EACH	VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, BLACK			4													4		632	05086	4	EACH	VEHICULAR SIGNAL HEAD, (LED), 5-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, BLACK			3	5												8		632	20731	8	EACH	PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN, AS PER PLAN	P.157		3	5												8		632	20751	8	EACH	ACCESSIBLE PEDESTRIAN PUSHBUTTON, AS PER PLAN	P.157		12													12		632	25000	12	EACH	COVERING OF VEHICULAR SIGNAL HEAD			3	5												8		632	25010	8	EACH	COVERING OF PEDESTRIAN SIGNAL HEAD			200													200		632	40501	200	FT	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG, AS PER PLAN	P.157		1100	875												1975		632	40701	1975	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG, AS PER PLAN	P.157		4													4		632	64010	4	EACH	SIGNAL SUPPORT FOUNDATION			4													4		632	64020	4	EACH	PEDESTAL FOUNDATION			75													75		632	67301	75	FT	POWER CABLE, 3 CONDUCTOR, NO. 8 AWG, AS PER PLAN	P.157		1													1		632	70001	1	EACH	POWER SERVICE, AS PER PLAN	P.157		1													1		632	70600	1	EACH	CONDUIT RISER, 3" DIAMETER			4													4		632	72110	4	EACH	SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 4			4													4		632	89600	4	EACH	PEDESTAL, 8'			1													1		632	90100	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION			8													8		632	90201	8	EACH	REUSE OF VEHICULAR SIGNAL HEAD, AS PER PLAN	P.157		9													9		632	90400	9	EACH	SIGNALIZATION, MISC.: FOUNDATION TEST HOLE	P.157		1													1		633	65511	1	EACH	CABINET, TYPE TS-2, AS PER PLAN	P.157		1													1		633	67101	1	EACH	CABINET FOUNDATION, AS PER PLAN	P.157		1													1		633	67200	1	EACH	CONTROLLER WORK PAD			1													1		633	75001	1	EACH	UNINTERRUPTIBLE POWER SUPPLY (UPS), 1000 WATT, AS PER PLAN	P.158		1													1		809	65990	1	EACH	ITS DEVICE, MISC.: REUSE COMMUNICATIONS DEVICE	P.157			2												2		809	69001	2	EACH	ADVANCE RADAR DETECTION, AS PER PLAN	P.158			4												4		809	69101	4	EACH	STOP LINE RADAR DETECTION, AS PER PLAN	P.158		1													1		809	69123	1	EACH	ATC CONTROLLER, AS PER PLAN	P.158			441												441		809	69220	441	FT	PREEMPT DETECTOR CABLE																																									
	388													388		625	25600	388	FT	CONDUIT, 4", 725.04			360													360		625	29000	360	FT	TRENCH			6													6		625	30706	6	EACH	PULL BOX, 725.08, 24"			9													9		625	32000	9	EACH	GROUND ROD			360													360		625	36011	360	FT	UNDERGROUND WARNING/MARKING TAPE, AS PER PLAN	P.157	1														1		625	76000	1	EACH	ARC FLASH CALCULATIONS AND LABEL (TRU-46-7.81)	P.157		7.5													7.5		630	80100	7.5	SF	SIGN, FLAT SHEET			8													8		632	05006	8	EACH	VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, BLACK			4													4		632	05086	4	EACH	VEHICULAR SIGNAL HEAD, (LED), 5-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, BLACK			3	5												8		632	20731	8	EACH	PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN, AS PER PLAN	P.157		3	5												8		632	20751	8	EACH	ACCESSIBLE PEDESTRIAN PUSHBUTTON, AS PER PLAN	P.157		12													12		632	25000	12	EACH	COVERING OF VEHICULAR SIGNAL HEAD			3	5												8		632	25010	8	EACH	COVERING OF PEDESTRIAN SIGNAL HEAD			200													200		632	40501	200	FT	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG, AS PER PLAN	P.157		1100	875												1975		632	40701	1975	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG, AS PER PLAN	P.157		4													4		632	64010	4	EACH	SIGNAL SUPPORT FOUNDATION			4													4		632	64020	4	EACH	PEDESTAL FOUNDATION			75													75		632	67301	75	FT	POWER CABLE, 3 CONDUCTOR, NO. 8 AWG, AS PER PLAN	P.157		1													1		632	70001	1	EACH	POWER SERVICE, AS PER PLAN	P.157		1													1		632	70600	1	EACH	CONDUIT RISER, 3" DIAMETER			4													4		632	72110	4	EACH	SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 4			4													4		632	89600	4	EACH	PEDESTAL, 8'			1													1		632	90100	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION			8													8		632	90201	8	EACH	REUSE OF VEHICULAR SIGNAL HEAD, AS PER PLAN	P.157		9													9		632	90400	9	EACH	SIGNALIZATION, MISC.: FOUNDATION TEST HOLE	P.157		1													1		633	65511	1	EACH	CABINET, TYPE TS-2, AS PER PLAN	P.157		1													1		633	67101	1	EACH	CABINET FOUNDATION, AS PER PLAN	P.157		1													1		633	67200	1	EACH	CONTROLLER WORK PAD			1													1		633	75001	1	EACH	UNINTERRUPTIBLE POWER SUPPLY (UPS), 1000 WATT, AS PER PLAN	P.158		1													1		809	65990	1	EACH	ITS DEVICE, MISC.: REUSE COMMUNICATIONS DEVICE	P.157			2												2		809	69001	2	EACH	ADVANCE RADAR DETECTION, AS PER PLAN	P.158			4												4		809	69101	4	EACH	STOP LINE RADAR DETECTION, AS PER PLAN	P.158		1													1		809	69123	1	EACH	ATC CONTROLLER, AS PER PLAN	P.158			441												441		809	69220	441	FT	PREEMPT DETECTOR CABLE																																																															
	360													360		625	29000	360	FT	TRENCH			6													6		625	30706	6	EACH	PULL BOX, 725.08, 24"			9													9		625	32000	9	EACH	GROUND ROD			360													360		625	36011	360	FT	UNDERGROUND WARNING/MARKING TAPE, AS PER PLAN	P.157	1														1		625	76000	1	EACH	ARC FLASH CALCULATIONS AND LABEL (TRU-46-7.81)	P.157		7.5													7.5		630	80100	7.5	SF	SIGN, FLAT SHEET			8													8		632	05006	8	EACH	VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, BLACK			4													4		632	05086	4	EACH	VEHICULAR SIGNAL HEAD, (LED), 5-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, BLACK			3	5												8		632	20731	8	EACH	PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN, AS PER PLAN	P.157		3	5												8		632	20751	8	EACH	ACCESSIBLE PEDESTRIAN PUSHBUTTON, AS PER PLAN	P.157		12													12		632	25000	12	EACH	COVERING OF VEHICULAR SIGNAL HEAD			3	5												8		632	25010	8	EACH	COVERING OF PEDESTRIAN SIGNAL HEAD			200													200		632	40501	200	FT	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG, AS PER PLAN	P.157		1100	875												1975		632	40701	1975	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG, AS PER PLAN	P.157		4													4		632	64010	4	EACH	SIGNAL SUPPORT FOUNDATION			4													4		632	64020	4	EACH	PEDESTAL FOUNDATION			75													75		632	67301	75	FT	POWER CABLE, 3 CONDUCTOR, NO. 8 AWG, AS PER PLAN	P.157		1													1		632	70001	1	EACH	POWER SERVICE, AS PER PLAN	P.157		1													1		632	70600	1	EACH	CONDUIT RISER, 3" DIAMETER			4													4		632	72110	4	EACH	SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 4			4													4		632	89600	4	EACH	PEDESTAL, 8'			1													1		632	90100	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION			8													8		632	90201	8	EACH	REUSE OF VEHICULAR SIGNAL HEAD, AS PER PLAN	P.157		9													9		632	90400	9	EACH	SIGNALIZATION, MISC.: FOUNDATION TEST HOLE	P.157		1													1		633	65511	1	EACH	CABINET, TYPE TS-2, AS PER PLAN	P.157		1													1		633	67101	1	EACH	CABINET FOUNDATION, AS PER PLAN	P.157		1													1		633	67200	1	EACH	CONTROLLER WORK PAD			1													1		633	75001	1	EACH	UNINTERRUPTIBLE POWER SUPPLY (UPS), 1000 WATT, AS PER PLAN	P.158		1													1		809	65990	1	EACH	ITS DEVICE, MISC.: REUSE COMMUNICATIONS DEVICE	P.157			2												2		809	69001	2	EACH	ADVANCE RADAR DETECTION, AS PER PLAN	P.158			4												4		809	69101	4	EACH	STOP LINE RADAR DETECTION, AS PER PLAN	P.158		1													1		809	69123	1	EACH	ATC CONTROLLER, AS PER PLAN	P.158			441												441		809	69220	441	FT	PREEMPT DETECTOR CABLE																																																																																					
	6													6		625	30706	6	EACH	PULL BOX, 725.08, 24"			9													9		625	32000	9	EACH	GROUND ROD			360													360		625	36011	360	FT	UNDERGROUND WARNING/MARKING TAPE, AS PER PLAN	P.157	1														1		625	76000	1	EACH	ARC FLASH CALCULATIONS AND LABEL (TRU-46-7.81)	P.157		7.5													7.5		630	80100	7.5	SF	SIGN, FLAT SHEET			8													8		632	05006	8	EACH	VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, BLACK			4													4		632	05086	4	EACH	VEHICULAR SIGNAL HEAD, (LED), 5-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, BLACK			3	5												8		632	20731	8	EACH	PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN, AS PER PLAN	P.157		3	5												8		632	20751	8	EACH	ACCESSIBLE PEDESTRIAN PUSHBUTTON, AS PER PLAN	P.157		12													12		632	25000	12	EACH	COVERING OF VEHICULAR SIGNAL HEAD			3	5												8		632	25010	8	EACH	COVERING OF PEDESTRIAN SIGNAL HEAD			200													200		632	40501	200	FT	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG, AS PER PLAN	P.157		1100	875												1975		632	40701	1975	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG, AS PER PLAN	P.157		4													4		632	64010	4	EACH	SIGNAL SUPPORT FOUNDATION			4													4		632	64020	4	EACH	PEDESTAL FOUNDATION			75													75		632	67301	75	FT	POWER CABLE, 3 CONDUCTOR, NO. 8 AWG, AS PER PLAN	P.157		1													1		632	70001	1	EACH	POWER SERVICE, AS PER PLAN	P.157		1													1		632	70600	1	EACH	CONDUIT RISER, 3" DIAMETER			4													4		632	72110	4	EACH	SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 4			4													4		632	89600	4	EACH	PEDESTAL, 8'			1													1		632	90100	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION			8													8		632	90201	8	EACH	REUSE OF VEHICULAR SIGNAL HEAD, AS PER PLAN	P.157		9													9		632	90400	9	EACH	SIGNALIZATION, MISC.: FOUNDATION TEST HOLE	P.157		1													1		633	65511	1	EACH	CABINET, TYPE TS-2, AS PER PLAN	P.157		1													1		633	67101	1	EACH	CABINET FOUNDATION, AS PER PLAN	P.157		1													1		633	67200	1	EACH	CONTROLLER WORK PAD			1													1		633	75001	1	EACH	UNINTERRUPTIBLE POWER SUPPLY (UPS), 1000 WATT, AS PER PLAN	P.158		1													1		809	65990	1	EACH	ITS DEVICE, MISC.: REUSE COMMUNICATIONS DEVICE	P.157			2												2		809	69001	2	EACH	ADVANCE RADAR DETECTION, AS PER PLAN	P.158			4												4		809	69101	4	EACH	STOP LINE RADAR DETECTION, AS PER PLAN	P.158		1													1		809	69123	1	EACH	ATC CONTROLLER, AS PER PLAN	P.158			441												441		809	69220	441	FT	PREEMPT DETECTOR CABLE																																																																																																											
	9													9		625	32000	9	EACH	GROUND ROD			360													360		625	36011	360	FT	UNDERGROUND WARNING/MARKING TAPE, AS PER PLAN	P.157	1														1		625	76000	1	EACH	ARC FLASH CALCULATIONS AND LABEL (TRU-46-7.81)	P.157		7.5													7.5		630	80100	7.5	SF	SIGN, FLAT SHEET			8													8		632	05006	8	EACH	VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, BLACK			4													4		632	05086	4	EACH	VEHICULAR SIGNAL HEAD, (LED), 5-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, BLACK			3	5												8		632	20731	8	EACH	PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN, AS PER PLAN	P.157		3	5												8		632	20751	8	EACH	ACCESSIBLE PEDESTRIAN PUSHBUTTON, AS PER PLAN	P.157		12													12		632	25000	12	EACH	COVERING OF VEHICULAR SIGNAL HEAD			3	5												8		632	25010	8	EACH	COVERING OF PEDESTRIAN SIGNAL HEAD			200													200		632	40501	200	FT	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG, AS PER PLAN	P.157		1100	875												1975		632	40701	1975	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG, AS PER PLAN	P.157		4													4		632	64010	4	EACH	SIGNAL SUPPORT FOUNDATION			4													4		632	64020	4	EACH	PEDESTAL FOUNDATION			75													75		632	67301	75	FT	POWER CABLE, 3 CONDUCTOR, NO. 8 AWG, AS PER PLAN	P.157		1													1		632	70001	1	EACH	POWER SERVICE, AS PER PLAN	P.157		1													1		632	70600	1	EACH	CONDUIT RISER, 3" DIAMETER			4													4		632	72110	4	EACH	SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 4			4													4		632	89600	4	EACH	PEDESTAL, 8'			1													1		632	90100	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION			8													8		632	90201	8	EACH	REUSE OF VEHICULAR SIGNAL HEAD, AS PER PLAN	P.157		9													9		632	90400	9	EACH	SIGNALIZATION, MISC.: FOUNDATION TEST HOLE	P.157		1													1		633	65511	1	EACH	CABINET, TYPE TS-2, AS PER PLAN	P.157		1													1		633	67101	1	EACH	CABINET FOUNDATION, AS PER PLAN	P.157		1													1		633	67200	1	EACH	CONTROLLER WORK PAD			1													1		633	75001	1	EACH	UNINTERRUPTIBLE POWER SUPPLY (UPS), 1000 WATT, AS PER PLAN	P.158		1													1		809	65990	1	EACH	ITS DEVICE, MISC.: REUSE COMMUNICATIONS DEVICE	P.157			2												2		809	69001	2	EACH	ADVANCE RADAR DETECTION, AS PER PLAN	P.158			4												4		809	69101	4	EACH	STOP LINE RADAR DETECTION, AS PER PLAN	P.158		1													1		809	69123	1	EACH	ATC CONTROLLER, AS PER PLAN	P.158			441												441		809	69220	441	FT	PREEMPT DETECTOR CABLE																																																																																																																																	
	360													360		625	36011	360	FT	UNDERGROUND WARNING/MARKING TAPE, AS PER PLAN	P.157	1														1		625	76000	1	EACH	ARC FLASH CALCULATIONS AND LABEL (TRU-46-7.81)	P.157		7.5													7.5		630	80100	7.5	SF	SIGN, FLAT SHEET			8													8		632	05006	8	EACH	VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, BLACK			4													4		632	05086	4	EACH	VEHICULAR SIGNAL HEAD, (LED), 5-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, BLACK			3	5												8		632	20731	8	EACH	PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN, AS PER PLAN	P.157		3	5												8		632	20751	8	EACH	ACCESSIBLE PEDESTRIAN PUSHBUTTON, AS PER PLAN	P.157		12													12		632	25000	12	EACH	COVERING OF VEHICULAR SIGNAL HEAD			3	5												8		632	25010	8	EACH	COVERING OF PEDESTRIAN SIGNAL HEAD			200													200		632	40501	200	FT	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG, AS PER PLAN	P.157		1100	875												1975		632	40701	1975	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG, AS PER PLAN	P.157		4													4		632	64010	4	EACH	SIGNAL SUPPORT FOUNDATION			4													4		632	64020	4	EACH	PEDESTAL FOUNDATION			75													75		632	67301	75	FT	POWER CABLE, 3 CONDUCTOR, NO. 8 AWG, AS PER PLAN	P.157		1													1		632	70001	1	EACH	POWER SERVICE, AS PER PLAN	P.157		1													1		632	70600	1	EACH	CONDUIT RISER, 3" DIAMETER			4													4		632	72110	4	EACH	SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 4			4													4		632	89600	4	EACH	PEDESTAL, 8'			1													1		632	90100	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION			8													8		632	90201	8	EACH	REUSE OF VEHICULAR SIGNAL HEAD, AS PER PLAN	P.157		9													9		632	90400	9	EACH	SIGNALIZATION, MISC.: FOUNDATION TEST HOLE	P.157		1													1		633	65511	1	EACH	CABINET, TYPE TS-2, AS PER PLAN	P.157		1													1		633	67101	1	EACH	CABINET FOUNDATION, AS PER PLAN	P.157		1													1		633	67200	1	EACH	CONTROLLER WORK PAD			1													1		633	75001	1	EACH	UNINTERRUPTIBLE POWER SUPPLY (UPS), 1000 WATT, AS PER PLAN	P.158		1													1		809	65990	1	EACH	ITS DEVICE, MISC.: REUSE COMMUNICATIONS DEVICE	P.157			2												2		809	69001	2	EACH	ADVANCE RADAR DETECTION, AS PER PLAN	P.158			4												4		809	69101	4	EACH	STOP LINE RADAR DETECTION, AS PER PLAN	P.158		1													1		809	69123	1	EACH	ATC CONTROLLER, AS PER PLAN	P.158			441												441		809	69220	441	FT	PREEMPT DETECTOR CABLE																																																																																																																																																							
1														1		625	76000	1	EACH	ARC FLASH CALCULATIONS AND LABEL (TRU-46-7.81)	P.157		7.5													7.5		630	80100	7.5	SF	SIGN, FLAT SHEET			8													8		632	05006	8	EACH	VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, BLACK			4													4		632	05086	4	EACH	VEHICULAR SIGNAL HEAD, (LED), 5-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, BLACK			3	5												8		632	20731	8	EACH	PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN, AS PER PLAN	P.157		3	5												8		632	20751	8	EACH	ACCESSIBLE PEDESTRIAN PUSHBUTTON, AS PER PLAN	P.157		12													12		632	25000	12	EACH	COVERING OF VEHICULAR SIGNAL HEAD			3	5												8		632	25010	8	EACH	COVERING OF PEDESTRIAN SIGNAL HEAD			200													200		632	40501	200	FT	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG, AS PER PLAN	P.157		1100	875												1975		632	40701	1975	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG, AS PER PLAN	P.157		4													4		632	64010	4	EACH	SIGNAL SUPPORT FOUNDATION			4													4		632	64020	4	EACH	PEDESTAL FOUNDATION			75													75		632	67301	75	FT	POWER CABLE, 3 CONDUCTOR, NO. 8 AWG, AS PER PLAN	P.157		1													1		632	70001	1	EACH	POWER SERVICE, AS PER PLAN	P.157		1													1		632	70600	1	EACH	CONDUIT RISER, 3" DIAMETER			4													4		632	72110	4	EACH	SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 4			4													4		632	89600	4	EACH	PEDESTAL, 8'			1													1		632	90100	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION			8													8		632	90201	8	EACH	REUSE OF VEHICULAR SIGNAL HEAD, AS PER PLAN	P.157		9													9		632	90400	9	EACH	SIGNALIZATION, MISC.: FOUNDATION TEST HOLE	P.157		1													1		633	65511	1	EACH	CABINET, TYPE TS-2, AS PER PLAN	P.157		1													1		633	67101	1	EACH	CABINET FOUNDATION, AS PER PLAN	P.157		1													1		633	67200	1	EACH	CONTROLLER WORK PAD			1													1		633	75001	1	EACH	UNINTERRUPTIBLE POWER SUPPLY (UPS), 1000 WATT, AS PER PLAN	P.158		1													1		809	65990	1	EACH	ITS DEVICE, MISC.: REUSE COMMUNICATIONS DEVICE	P.157			2												2		809	69001	2	EACH	ADVANCE RADAR DETECTION, AS PER PLAN	P.158			4												4		809	69101	4	EACH	STOP LINE RADAR DETECTION, AS PER PLAN	P.158		1													1		809	69123	1	EACH	ATC CONTROLLER, AS PER PLAN	P.158			441												441		809	69220	441	FT	PREEMPT DETECTOR CABLE																																																																																																																																																																													
	7.5													7.5		630	80100	7.5	SF	SIGN, FLAT SHEET			8													8		632	05006	8	EACH	VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, BLACK			4													4		632	05086	4	EACH	VEHICULAR SIGNAL HEAD, (LED), 5-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, BLACK			3	5												8		632	20731	8	EACH	PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN, AS PER PLAN	P.157		3	5												8		632	20751	8	EACH	ACCESSIBLE PEDESTRIAN PUSHBUTTON, AS PER PLAN	P.157		12													12		632	25000	12	EACH	COVERING OF VEHICULAR SIGNAL HEAD			3	5												8		632	25010	8	EACH	COVERING OF PEDESTRIAN SIGNAL HEAD			200													200		632	40501	200	FT	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG, AS PER PLAN	P.157		1100	875												1975		632	40701	1975	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG, AS PER PLAN	P.157		4													4		632	64010	4	EACH	SIGNAL SUPPORT FOUNDATION			4													4		632	64020	4	EACH	PEDESTAL FOUNDATION			75													75		632	67301	75	FT	POWER CABLE, 3 CONDUCTOR, NO. 8 AWG, AS PER PLAN	P.157		1													1		632	70001	1	EACH	POWER SERVICE, AS PER PLAN	P.157		1													1		632	70600	1	EACH	CONDUIT RISER, 3" DIAMETER			4													4		632	72110	4	EACH	SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 4			4													4		632	89600	4	EACH	PEDESTAL, 8'			1													1		632	90100	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION			8													8		632	90201	8	EACH	REUSE OF VEHICULAR SIGNAL HEAD, AS PER PLAN	P.157		9													9		632	90400	9	EACH	SIGNALIZATION, MISC.: FOUNDATION TEST HOLE	P.157		1													1		633	65511	1	EACH	CABINET, TYPE TS-2, AS PER PLAN	P.157		1													1		633	67101	1	EACH	CABINET FOUNDATION, AS PER PLAN	P.157		1													1		633	67200	1	EACH	CONTROLLER WORK PAD			1													1		633	75001	1	EACH	UNINTERRUPTIBLE POWER SUPPLY (UPS), 1000 WATT, AS PER PLAN	P.158		1													1		809	65990	1	EACH	ITS DEVICE, MISC.: REUSE COMMUNICATIONS DEVICE	P.157			2												2		809	69001	2	EACH	ADVANCE RADAR DETECTION, AS PER PLAN	P.158			4												4		809	69101	4	EACH	STOP LINE RADAR DETECTION, AS PER PLAN	P.158		1													1		809	69123	1	EACH	ATC CONTROLLER, AS PER PLAN	P.158			441												441		809	69220	441	FT	PREEMPT DETECTOR CABLE																																																																																																																																																																																																			
	8													8		632	05006	8	EACH	VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, BLACK			4													4		632	05086	4	EACH	VEHICULAR SIGNAL HEAD, (LED), 5-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, BLACK			3	5												8		632	20731	8	EACH	PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN, AS PER PLAN	P.157		3	5												8		632	20751	8	EACH	ACCESSIBLE PEDESTRIAN PUSHBUTTON, AS PER PLAN	P.157		12													12		632	25000	12	EACH	COVERING OF VEHICULAR SIGNAL HEAD			3	5												8		632	25010	8	EACH	COVERING OF PEDESTRIAN SIGNAL HEAD			200													200		632	40501	200	FT	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG, AS PER PLAN	P.157		1100	875												1975		632	40701	1975	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG, AS PER PLAN	P.157		4													4		632	64010	4	EACH	SIGNAL SUPPORT FOUNDATION			4													4		632	64020	4	EACH	PEDESTAL FOUNDATION			75													75		632	67301	75	FT	POWER CABLE, 3 CONDUCTOR, NO. 8 AWG, AS PER PLAN	P.157		1													1		632	70001	1	EACH	POWER SERVICE, AS PER PLAN	P.157		1													1		632	70600	1	EACH	CONDUIT RISER, 3" DIAMETER			4													4		632	72110	4	EACH	SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 4			4													4		632	89600	4	EACH	PEDESTAL, 8'			1													1		632	90100	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION			8													8		632	90201	8	EACH	REUSE OF VEHICULAR SIGNAL HEAD, AS PER PLAN	P.157		9													9		632	90400	9	EACH	SIGNALIZATION, MISC.: FOUNDATION TEST HOLE	P.157		1													1		633	65511	1	EACH	CABINET, TYPE TS-2, AS PER PLAN	P.157		1													1		633	67101	1	EACH	CABINET FOUNDATION, AS PER PLAN	P.157		1													1		633	67200	1	EACH	CONTROLLER WORK PAD			1													1		633	75001	1	EACH	UNINTERRUPTIBLE POWER SUPPLY (UPS), 1000 WATT, AS PER PLAN	P.158		1													1		809	65990	1	EACH	ITS DEVICE, MISC.: REUSE COMMUNICATIONS DEVICE	P.157			2												2		809	69001	2	EACH	ADVANCE RADAR DETECTION, AS PER PLAN	P.158			4												4		809	69101	4	EACH	STOP LINE RADAR DETECTION, AS PER PLAN	P.158		1													1		809	69123	1	EACH	ATC CONTROLLER, AS PER PLAN	P.158			441												441		809	69220	441	FT	PREEMPT DETECTOR CABLE																																																																																																																																																																																																																									
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	200													200		632	40501	200	FT	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG, AS PER PLAN	P.157		1100	875												1975		632	40701	1975	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG, AS PER PLAN	P.157		4													4		632	64010	4	EACH	SIGNAL SUPPORT FOUNDATION			4													4		632	64020	4	EACH	PEDESTAL FOUNDATION			75													75		632	67301	75	FT	POWER CABLE, 3 CONDUCTOR, NO. 8 AWG, AS PER PLAN	P.157		1													1		632	70001	1	EACH	POWER SERVICE, AS PER PLAN	P.157		1													1		632	70600	1	EACH	CONDUIT RISER, 3" DIAMETER			4													4		632	72110	4	EACH	SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 4			4													4		632	89600	4	EACH	PEDESTAL, 8'			1													1		632	90100	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION			8													8		632	90201	8	EACH	REUSE OF VEHICULAR SIGNAL HEAD, AS PER PLAN	P.157		9													9		632	90400	9	EACH	SIGNALIZATION, MISC.: FOUNDATION TEST HOLE	P.157		1													1		633	65511	1	EACH	CABINET, TYPE TS-2, AS PER PLAN	P.157		1													1		633	67101	1	EACH	CABINET FOUNDATION, AS PER PLAN	P.157		1													1		633	67200	1	EACH	CONTROLLER WORK PAD			1													1		633	75001	1	EACH	UNINTERRUPTIBLE POWER SUPPLY (UPS), 1000 WATT, AS PER PLAN	P.158		1													1		809	65990	1	EACH	ITS DEVICE, MISC.: REUSE COMMUNICATIONS DEVICE	P.157			2												2		809	69001	2	EACH	ADVANCE RADAR DETECTION, AS PER PLAN	P.158			4												4		809	69101	4	EACH	STOP LINE RADAR DETECTION, AS PER PLAN	P.158		1													1		809	69123	1	EACH	ATC CONTROLLER, AS PER PLAN	P.158			441												441		809	69220	441	FT	PREEMPT DETECTOR CABLE																																																																																																																																																																																																																																																																																																																																																													
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TRAFFIC SIGNAL GENERAL SUMMARY

DESIGN AGENCY  
**Michael Baker INTERNATIONAL**

DESIGNER  
 SED

REVIEWER  
 JPM 12/21/21

PROJECT ID  
 109520

SHEET TOTAL  
 P.159 P.166



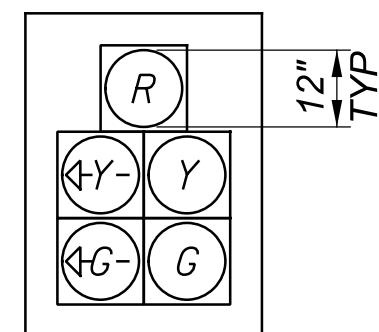
SHEET NO.	LOCATION		SIDE	625	625	625	625	625	625	625	630	632	632	632	632	632	632	632	632	632	632	632	632	632	632	632	633	633	633	633	809	809	809	809	809				
	FROM	TO		FT	FT	FT	FT	EACH	EACH	FT	SF	EACH	EACH	EACH	EACH	EACH	FT	FT	EACH	EACH	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	FT			
	SR-46 & CR-329 (CONT.)																																						
P.162	CONTROLLER	P4B	RT																																				
P.162	CONTROLLER	P6A	LT/RT																																				
P.162	CONTROLLER	P6B	LT/RT																																				
P.162	CONTROLLER	P8A	RT																																				
P.162	CONTROLLER	P8B	LT/RT																																				
P.162	CONTROLLER	R-1	RT																																				
P.162	CONTROLLER	R-2	RT																																				
P.162	CONTROLLER	R-4	LT/RT																																				
P.162	CONTROLLER	R-5	LT/RT																																				
P.162	CONTROLLER	R-6	LT/RT																																				
P.162	CONTROLLER	R-8	RT																																				
P.162	CONTROLLER	EX. POLE	LT/RT																																				
TOTALS FROM THIS SHEET																																							
TOTALS FROM SHEET P.160				86	130	388	360	6	9	360	7.5	8	4	3	3	12	3	200	1100	4	4	75	1	1															
TOTALS TO GENERAL SUMMARY				86	130	388	360	6	9	360	7.5	8	4	8	8	12	8	200	1975	4	4	75	1	1	4	4	1	8	9	1	1	1	1	1	1	2	4	1	441

TRAFFIC SIGNAL SUBSUMMARY (2 OF 2)

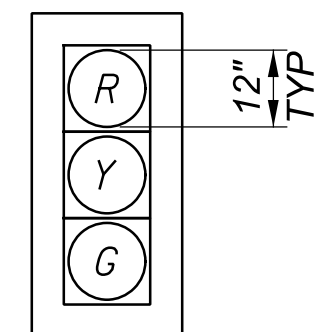
DESIGN AGENCY	<b>Michael Baker INTERNATIONAL</b>	
DESIGNER	SED	
REVIEWER	JPM 12/21/21	
PROJECT ID	109520	
SHEET TOTAL	P.161	P.166

NOTE:  
 1. RADAR DETECTION LOCATION IS FOR REFERENCE ONLY. ACTUAL PLACEMENT WILL BE RECOMMENDED BY MANUFACTURER.

2. PERFORM TEST DIGGING AT PEDESTRIAN AND TRAFFIC SIGNAL FOUNDATION LOCATIONS PRIOR TO ORDERING MATERIALS TO CONFIRM CLEARANCES FROM EXISTING UTILITIES. PAID INCIDENTAL TO SIGNAL FOUNDATION PAY ITEMS.



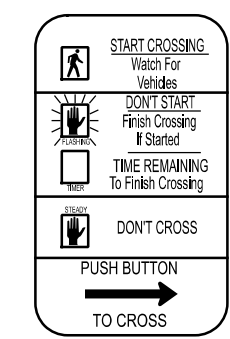
2A, 4A, 6A, 8A



2B, 2C, 4B, 4C, 6B, 6C, 8B, 8C

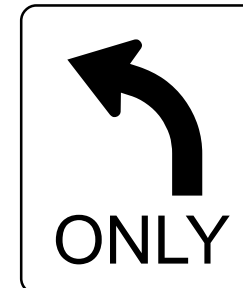


PEDESTRIAN HEADS (LED, COUNTDOWN, TYPE D2)



R10-36-9  
 5 - LEFT ARROWS (PS-2, SP-3, PS-3, SP-4, PS-4)  
 3 - RIGHT ARROWS (SP-1, PS-1, SP-2)

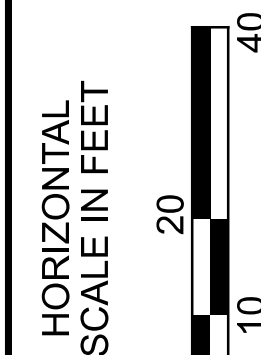
PROPOSED SIGNS



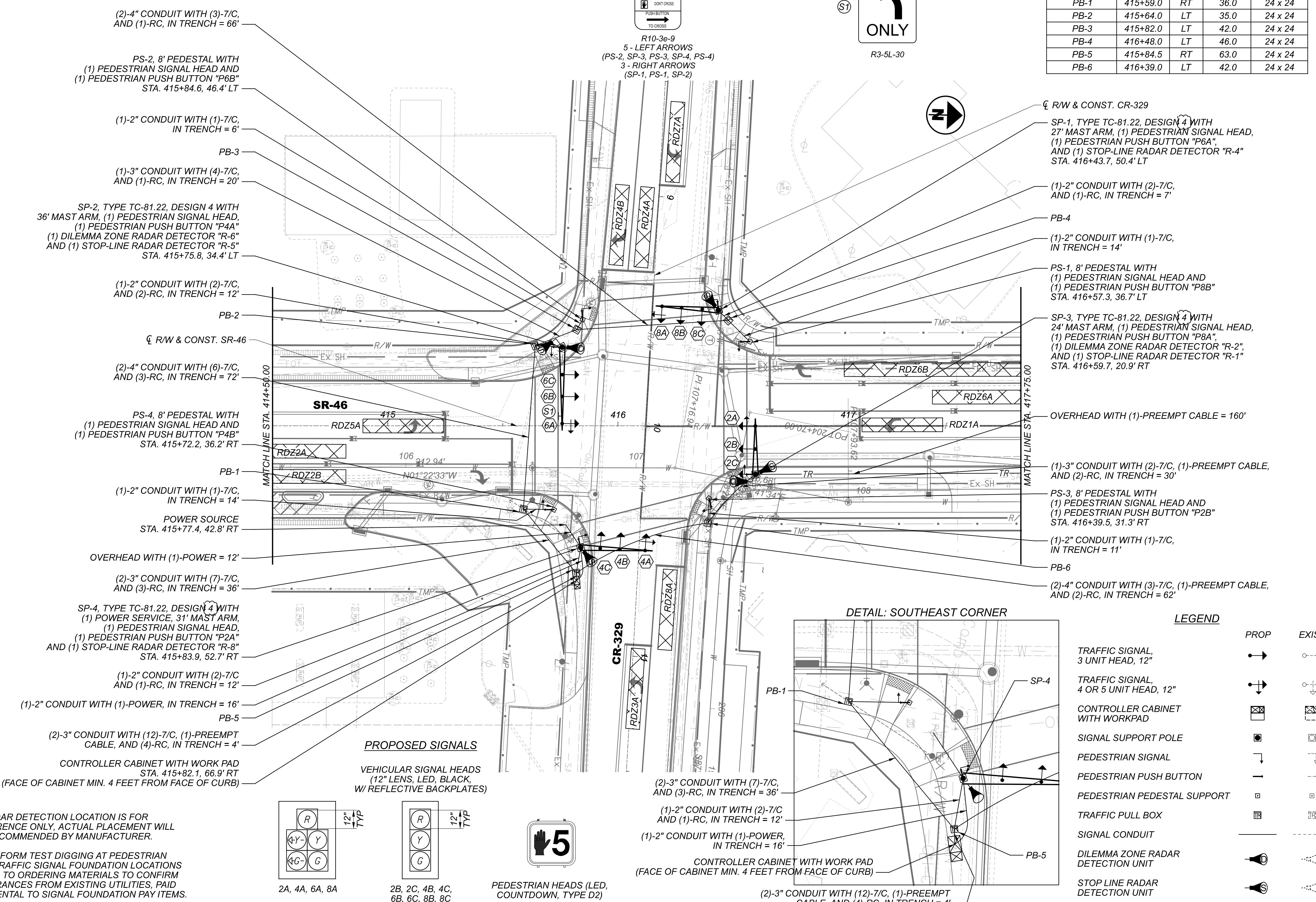
R3-5L-30

PULL BOX TABLE

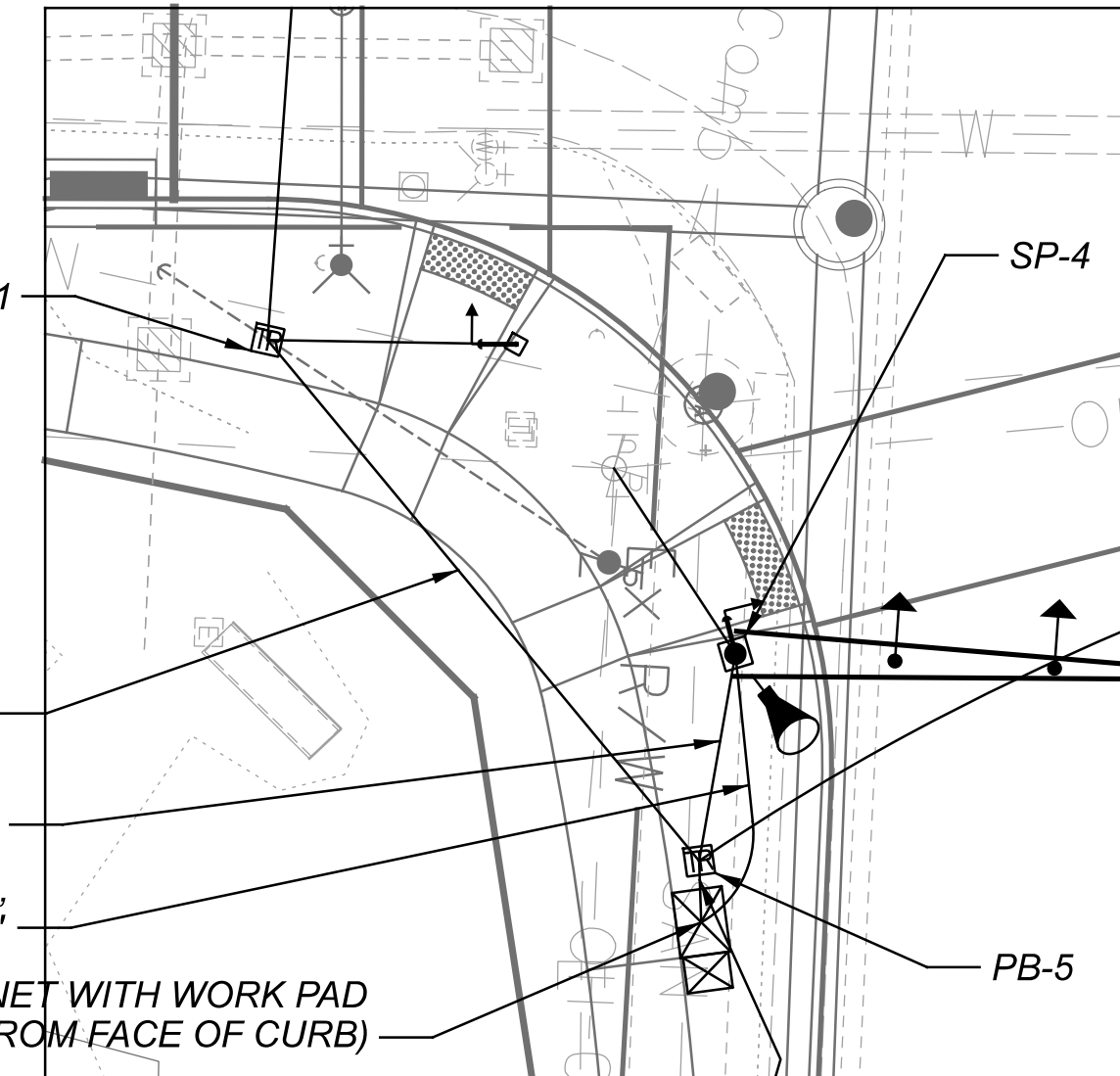
PULL BOX #	STATION	SIDE	OFFSET	SIZE (IN.)
PB-1	415+59.0	RT	36.0	24 x 24
PB-2	415+64.0	LT	35.0	24 x 24
PB-3	415+82.0	LT	42.0	24 x 24
PB-4	416+48.0	LT	46.0	24 x 24
PB-5	415+84.5	RT	63.0	24 x 24
PB-6	416+39.0	LT	42.0	24 x 24



TRAFFIC SIGNAL PLAN  
 SR-46 & CR-329



DETAIL: SOUTHEAST CORNER



LEGEND

	PROP	EXIST
TRAFFIC SIGNAL, 3 UNIT HEAD, 12"		
TRAFFIC SIGNAL, 4 OR 5 UNIT HEAD, 12"		
CONTROLLER CABINET WITH WORKPAD		
SIGNAL SUPPORT POLE		
PEDESTRIAN SIGNAL		
PEDESTRIAN PUSH BUTTON		
PEDESTRIAN PEDESTAL SUPPORT		
TRAFFIC PULL BOX		
SIGNAL CONDUIT		
DILEMMA ZONE RADAR DETECTION UNIT		
STOP LINE RADAR DETECTION UNIT		

DESIGN AGENCY

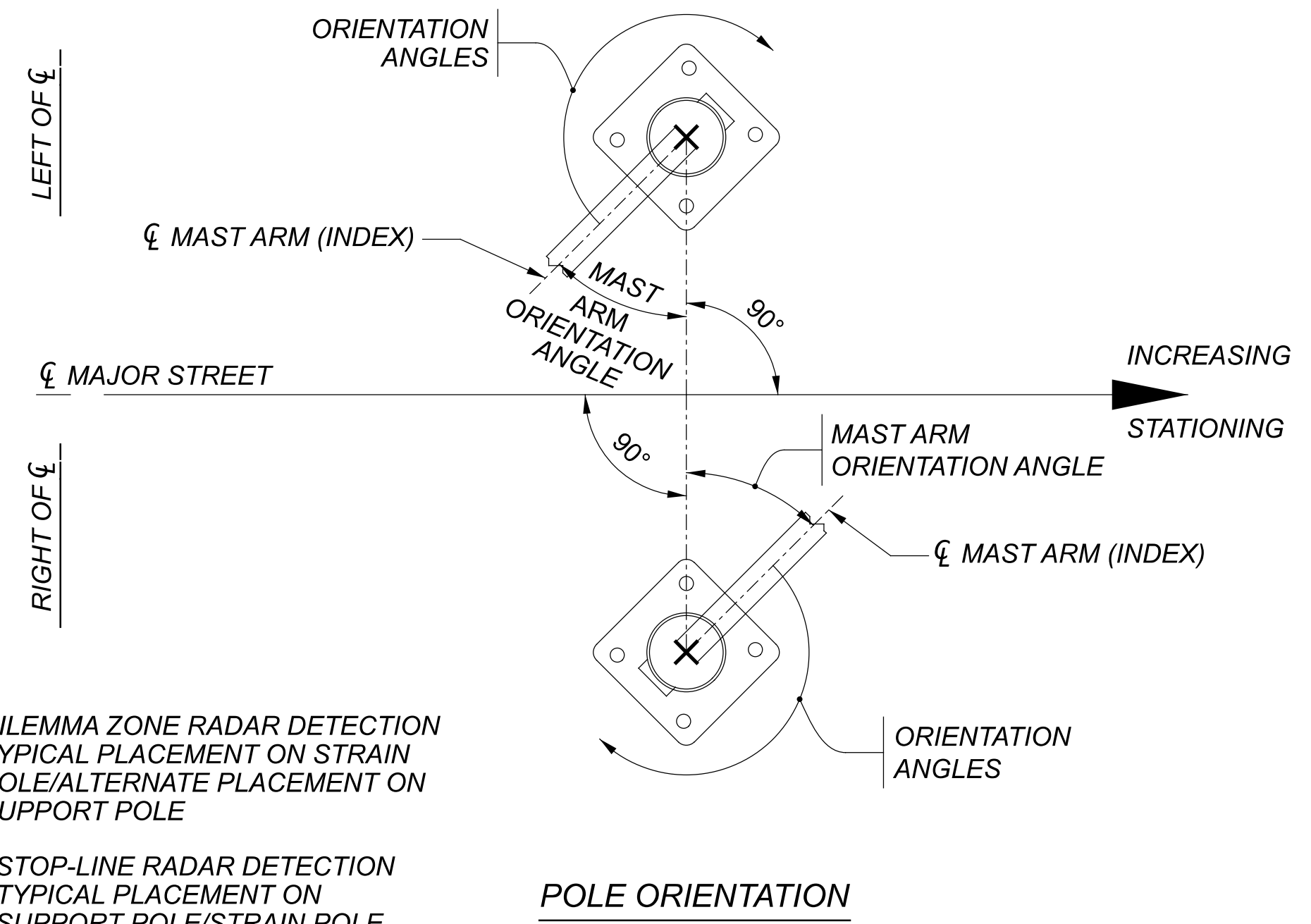
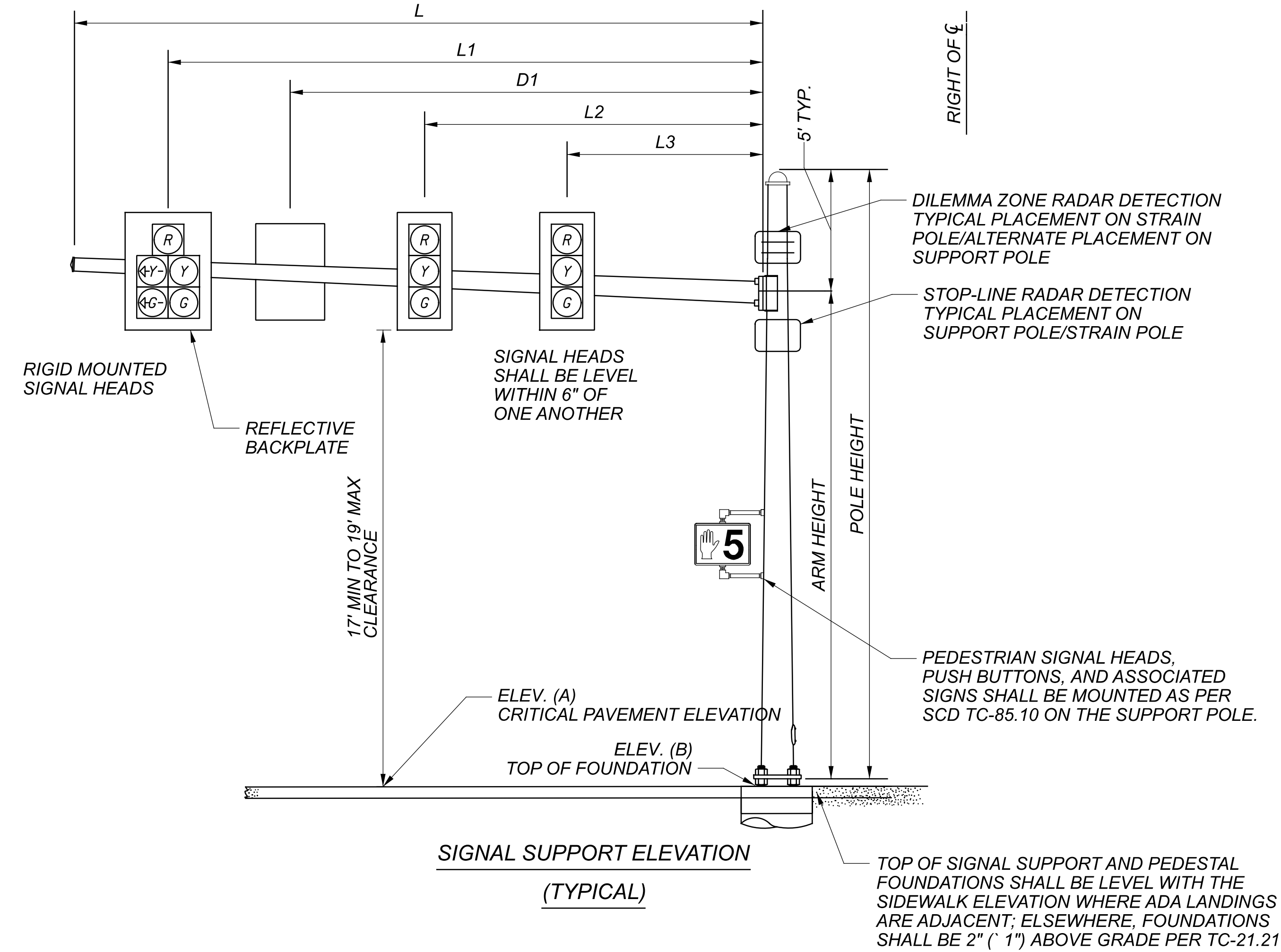
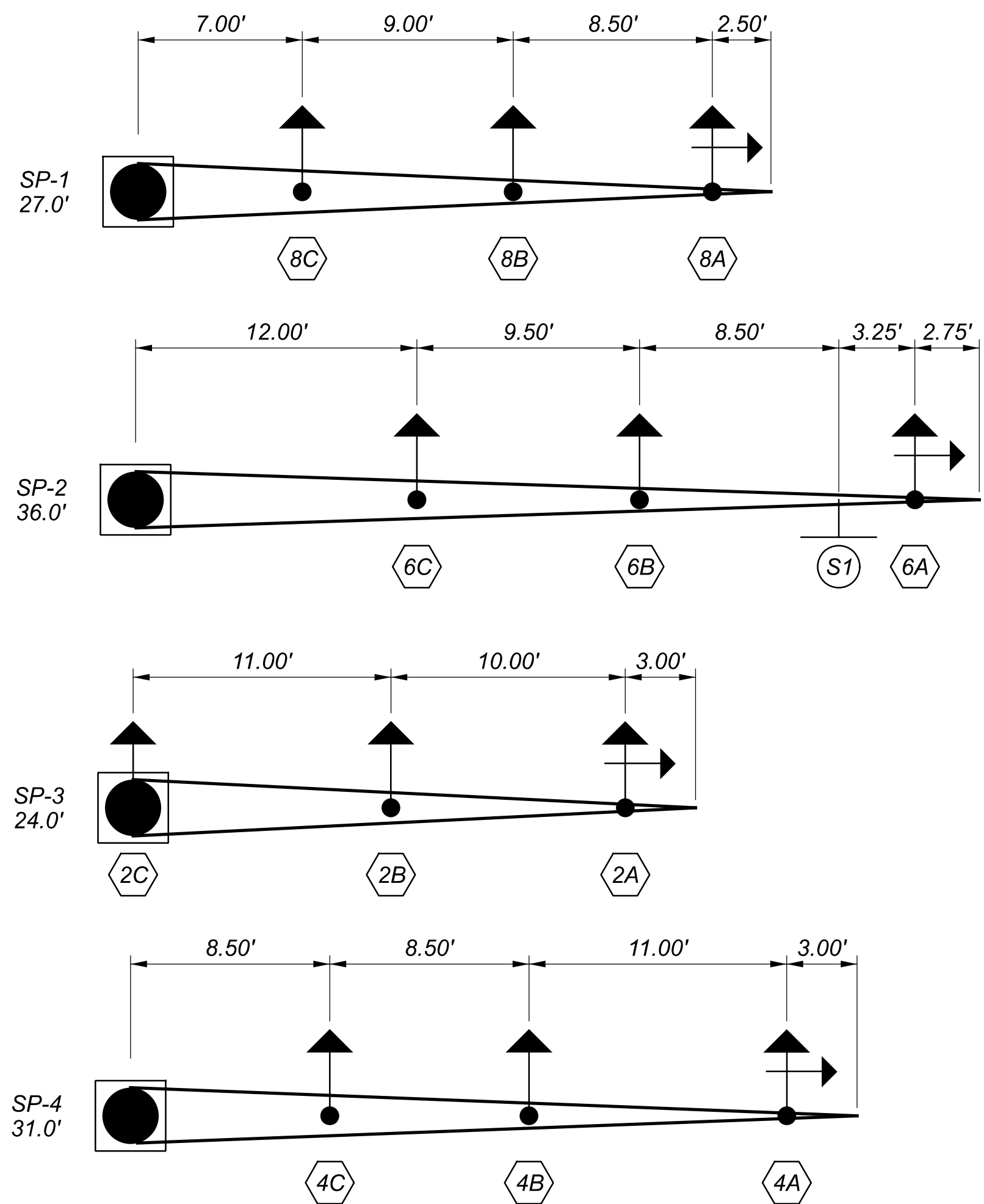
Michael Baker INTERNATIONAL

DESIGNER  
 SED

REVIEWER  
 JPM 12/21/21

PROJECT ID  
 109520

SHEET TOTAL  
 P.162 P.166



MAST ARM TABLE (TEM FIGURE 498-37 & 38)

SUPPORT NO.	STATION	OFFSET	ELEVATION		SIGNAL SUPPORT DETAILS											ORIENTATION ANGLES FROM MAST ARM A								
			A (PAVEMENT ELEVATION)	B (TOP OF FOUNDATION)	DESIGN TYPE	DESIGN NO.	POLE HEIGHT	ARM HEIGHT	L	L1	L2	L3	D1	D2	X	MAST ARM A ANGLE	MAST ARM B ANGLE	PEDESTRIAN SIGNAL	PEDESTRIAN PUSH BUTTON	POWER SERVICE	SIGNAL CABINET	BRACKET ARM	HANDHOLE	CABLE ENTRANCE 12" FROM TOP
SP-1	416+43.7	50.4' LT	938.66	939.51	TC-81.22	4	25	20	27	24.5	16	7	-	-	-	94	-	81	81	-	-	-	274	-
SP-2	415+75.8	34.4' LT	942.73	941.15	TC-81.22	4	26.5	21.5	36	33.25	21.5	12	30	-	-	0	-	90	90	-	-	-	180	-
SP-3	416+59.7	20.9' RT	942.45	943.36	TC-81.22	4	25	20	24	21	11	0	-	-	-	0	-	270	270	-	-	-	180	-
SP-4	415+83.9	52.7' RT	945.55	945.86	TC-81.22	4	25	20	31	28	17	8.5	-	-	-	93	-	253	253	160	-	-	273	-