			SHEET NUM.									PART.		ITEM	GRAND	UNIT	DESCRIPTION		
8	9	10	12	39	40	41	86	87	99	100		01/SAF /PV		ITEM	EXT	TOTAL	OWIT	DESCRIPTION	SHEET NO.
																		PAVEMENT	
			480		3,567						ļ	4,047		254	01000	4,047		PAVEMENT PLANING, ASPHALT CONCRETE	
					3,076							3,076		255	20000	3,076		FULL DEPTH PAVEMENT SAWING	
					1,911						ļ	1,911		301	56000	1,911		ASPHALT CONCRETE BASE, PG64-22, (449)	
						75						75		301	56100	75		ASPHALT CONCRETE BASE, PG64-22, (449), (DRIVEWAYS)	
					1,313	225						1,538		304	20000	1,538	CY	AGGREGATE BASE	
			20		4 200	40	-					4.404		407	20000	4 404	CAL	NON TRACKING TACK COAT	
			39		1,320 67	42						1,401 67		407 441	20000 70000	1,401 67		NON-TRACKING TACK COAT	
					318						<u> </u>	318		441	70100	318		ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22	
					721						<u> </u>	721		441	70100	721		ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG70-22M ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449)	
					121	34						34		441	70500	34		ASPHALT CONCRETE INTERMEDIATE COURSE, 11FE 2, (449) ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), (DRIVEWAYS)	
						- "						01			70000	01	01	761 17 ET CONCRETE CONTROL COCKED, 111 E 1, (110), (BINTENTIO)	
					3,299							3,299		SPECIAL	69098200	3,299	SF	MALTENE BASED LONGITUDINAL JOINT STABILIZER	10A
																		TRAFFIC CONTROL	
							0.32					0.32		618	43000	0.32		RUMBLE STRIPES, CENTER LINE (ASPHALT CONCRETE)	
							57					57		621	00100	57	EACH	RPM	
							23					23		621	54000	23		RAISED PAVEMENT MARKER REMOVED	
								248.7				248.7		630	03100	248.7		GROUND MOUNTED SUPPORT, NO. 3 POST	
								13.6				13.6		630	04100	13.6	FT	GROUND MOUNTED SUPPORT, NO. 4 POST	
									Com			\sim)			كسسك			
									4 4			4	7	630	79500	<u>} 4 </u>		SIGN SUPPORT ASSEMBLY, POLE MOUNTED	
								137.2	12)		149.2	3	630	80100	149.2		SIGN, FLAT SHEET	
								29	~~~			uzou	,	630	84900	wegen		REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
								19				19		630	86002	19		REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
			0.05									0.05		642	00300	0.05	MILE	CENTER LINE, TYPE 1	
															20101				
							0.97					0.97		644	00104	0.97		EDGE LINE, 6"	
							0.67					0.67		644	00300	0.67		CENTER LINE	
							687					687		644	00400	687		CHANNELIZING LINE, 8"	
							71					71		644	00500	71		STOP LINE	
							241				<u> </u>	241		644	00700	241	FT	TRANSVERSE/DIAGONAL LINE	
							8					8		644	01300	8	EACH	LANE ARROW	
							0					0		044	01300	0	EACH	LANE ARROW	
																		TRAFFIC SIGNALS	
									2			2		625	00450	2	EACH	CONNECTION, FUSED PULL APART	
									2			2		625	00460	2		CONNECTION, UNFUSED PULL APART	
									~~~		<u> </u>	$\frac{1}{2}$		625	18510	$\frac{1}{2}$		BRACKET ARM, 30'	
									35		<del>\</del>	35	<u>)</u>	625	25408	<del>735</del>		CONDUIT, 2", 725.051	
									35		<del>                                     </del>	35	7	625	25604	35		CONDUIT, 4", 725,051	
									and the		<b>,</b>	ستس	کو			كستح			
									20			2		625	26253	m²n	EACH	LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN, 150W, 120V, TYPE II	96
									F35 3			<del>235</del>		625	29002	<b>≻</b> 35 <b>≺</b>	FT	TRENCH, 24" DEEP	
									~~~~	~~~	$\sim$	$\sim$	$\sim$	~~625~~	30700		~EACH~	PULL BOX 725 P8 18"	
								\	<u>'</u>									٠	
								`	ww	$\overline{\mathbf{u}}$	$\overline{\mathbf{w}}$	\overline{u}		~~ ₂₅ ~	32000	www	LEACH	GROUND ROD	
									\sim			3				\sim			
									<u> </u>			35		625	36010	35	FT	UNDERGROUND WARNING/MARKING TAPE	
									1			<u> </u>		625	76000	W		ARC FLASH CALCULATIONS AND LABEL	
									10			10		632	05006	10	EACH	VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE	
									2			2		632	05086	2		VEHICULAR SIGNAL HEAD, (LED), 5-SECTION, 12" LENS, 1-WAY, POLYCARBONATE	
									12			12		632	25000	12	EACH	COVERING OF VEHICULAR SIGNAL HEAD	
		-								445	<u> </u>	445		632	30200	445		MESSENGER WIRE, 7 STRAND, 3/8" DIAMETER WITH ACCESSORIES	
										445		445		632	30600	445	FT	TETHER WIRE, WITH ACCESSORIES	
		1								482		482		632	40400	482		SIGNAL CABLE, 4 CONDUCTOR, NO. 14 AWG	
										1,925		1,925		632	40700	1,925		SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG	
										4		4		632	64000	4	EACH	STRAIN POLE FOUNDATION	
					+					-		1		632	64050	1	EVCH	TEST HOLE DEDECIDMEN	
							1		1			$\sim\sim\sim$	\sim	~632~	64950		FT	TEST HOLE PERFORMED POWER CABLE, 3 CONDUCTOR, NO, 8 AWG	+
										4 8 5	\overline{m}	ΩΕ		M.3.1	E 1/300		ı Fi	II OWEN OADEE, 3 CONDUCTON, NO, 0 MMS 🔏	
										8 5		85	····	632	67300			both to be be the better to be	00
										85	1	85	····	1163211	170001V	mm	WEACH!	POWER SERVICE, AS PER PLAN	98
										2 85	1	85 2	····	632	86140	2	EACH EACH	STRAIN POLE, TYPE TC-81.11, DESIGN 12	98
										85	1	85		1163211	170001V	mm	EACH EACH		98
										2 85	1	85 2		632	86140	2	EACH EACH	STRAIN POLE, TYPE TC-81.11, DESIGN 12	98
										2 85	1	85 2		632	86140	2	EACH EACH	STRAIN POLE, TYPE TC-81.11, DESIGN 12	98

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809 ADVANCE RADAR DETECTION, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF FURNISHING AND INSTALLING A WAVETRONIX SMARTSENSOR ADVANCE DETECTION UNIT (MODEL SS-200E). THE DETECTION UNIT SHALL INCLUDE THE FOLLOWING:

- 1. POWER SHALL BE PROVIDED FROM THE TRAFFIC CABINET.
- 2. ALL REQUIRED INPUTS CARDS SHALL BE INCLUDED IN THE TRAFFIC CABINET AND SHALL BE COMPATIBLE WITH CALTRANS, NEMA TS1 AND NEMA TS2 DETECTOR RACKS. THE CARDS SHALL PROVIDE TRUE PRESENCE DETECTOR CALLS OR CONTACT CLOSURE TO THE TRAFFIC CONTROLLER.
- 3. THE UNIT SHALL BE MOUNTED DIRECTLY TO A POLE OR MAST ARM, AS RECOMMENDED BY THE MANUFACTURER. CABLE(S) SHALL BE PROVIDED AS REQUIRED AND RECOMMENDED BY THE MANUFACTURER.
- 4. SURGE PROTECTION DEVICES, AS RECOMMENDED BY THE MANUFACTURER SHALL BE INCLUDED BOTH AT THE POLE WHERE THE UNIT IS LOCATED TO PROTECT THE UNIT AND IN THE TRAFFIC CABINET TO PROTECT THE CABINET ELECTRONICS.
- 5. THE MANUFACTURER'S REPRESENTATIVE SHALL BE ON SITE DURING INSTALLATION AND TESTING AND SHALL PROVIDE ONSITE TRAINING ON THE SETUP, OPERATION AND MAINTENANCE OF THE UNIT.
- 6. A SERIAL TO ETHERNET COMMUNICATIONS MODULE AND ETHERNET CABLE (MINIMUM 7 FEET).
- 7. THE POWER SUPPLY AND COMMUNICATION MODULES SHALL BE SECURED TO A SINGLE PANEL THAT CAN BE MOUNTED INTERIOR TO THE TRAFFIC CABINET. THE PANEL SHALL INCLUDE MODULAR-PLUG STYLE CONNECTIONS FOR UP TO FOUR (4) SENSOR CABLES. ADDITIONAL SENSORS MAY BE HARD-WIRED TO THE COMMUNICATION MODULES, AS NECESSARY.
- 8. THE CONTRACTOR SHALL INSTALL THE RADAR DETECTION PRIOR TO MILLING/DISABLING EXISTING LOOPS.
- 9. THE INSTALLATION SHALL INCLUDE ALL CONTROLLER PROGRAMMING FOR COMPLETE INSTALLATION, WHICH INCLUDES MODIFICATIONS FOR REMOVAL OF EXISTING DETECTION.

PAYMENT FOR ITEM 809 ADVANCE RADAR DETECTION, AS PER PLAN SHALL BE MADE AT THE CONTRACT UNIT PRICE FOR EACH UNIT, COMPLETE AND IN PLACE INCLUDING ALL REQUIRED CABINET HARDWARE, MOUNTING BRACKETS, CABLES, CONDUIT, CONNECTIONS TESTED AND ACCEPTED, AND ANY OTHER NECESSARY HARDWARE TO ESTABLISH A FULLY FUNCTIONAL DETECTION SYSTEM.

809 STOP-LINE RADAR DETECTION, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF FURNISHING AND INSTALLING A WAVETRONIX SMARTSENSOR MATRIX DETECTION UNIT. THE DETECTION UNIT SHALL INCLUDE THE FOLLOWING:

- 1. POWER SHALL BE PROVIDED FROM THE TRAFFIC CABINET.
- 2. ALL REQUIRED INPUTS CARDS SHALL BE INCLUDED IN THE TRAFFIC CABINET AND SHALL BE COMPATIBLE WITH CALTRANS, NEMA TS1 AND NEMA TS2 DETECTOR RACKS. THE CARDS SHALL PROVIDE TRUE PRESENCE DETECTOR CALLS OR CONTACT CLOSURE TO THE TRAFFIC CONTROLLER.
- 3. THE UNIT SHALL BE MOUNTED DIRECTLY TO A POLE OR MAST ARM, AS RECOMMENDED BY THE MANUFACTURER. CABLE(S) SHALL BE PROVIDED AS REQUIRED AND RECOMMENDED BY THE MANUFACTURER. EACH UNIT IS TO USE 3 BANDS TO ATTACH UNITS PER MANUFACTURERS RECOMMENDATIONS.
- 4. SURGE PROTECTION DEVICES, AS RECOMMENDED BY THE MANUFACTURER SHALL BE INCLUDED BOTH AT THE POLE WHERE THE UNIT IS LOCATED TO PROTECT THE UNIT AND IN THE TRAFFIC CABINET TO PROTECT THE CABINET ELECTRONICS.
- 5. THE MANUFACTURER'S REPRESENTATIVE SHALL BE ON SITE DURING INSTALLATION AND TESTING AND SHALL PROVIDE ONSITE TRAINING ON THE SETUP, OPERATION AND MAINTENANCE OF THE UNIT.
- 6. A SERIAL TO ETHERNET COMMUNICATIONS MODULE AND ETHERNET CABLE (MINIMUM 7 FEET).
- 7. THE POWER SUPPLY AND COMMUNICATION MODULES SHALL BE SECURED TO A SINGLE PANEL THAT CAN BE MOUNTED INTERIOR TO THE TRAFFIC CABINET. THE PANEL SHALL INCLUDE MODULAR-PLUG STYLE CONNECTIONS FOR UP TO FOUR (4) SENSOR CABLES. ADDITIONAL SENSORS MAY BE HARD-WIRED TO THE COMMUNICATION MODULES, AS NECESSARY.
- 8. THE CONTRACTOR SHALL INSTALL THE RADAR DETECTION PRIOR TO MILLING/DISABLING EXISTING LOOPS.
- 9. THE INSTALLATION SHALL INCLUDE ALL CONTROLLER PROGRAMMING FOR COMPLETE INSTALLATION, WHICH INCLUDES MODIFICATIONS FOR REMOVAL OF EXISTING DETECTION.

PAYMENT FOR ITEM 809 STOP-LINE RADAR DETECTION, AS PER PLAN SHALL BE MADE AT THE CONTRACT UNIT PRICE FOR EACH UNIT, COMPLETE AND IN PLACE INCLUDING ALL REQUIRED CABINET HARDWARE, MOUNTING BRACKETS, CABLES, CONDUIT AND CONNECTIONS TESTED AND ACCEPTED.

ITEM 632 - POWER SERVICE, AS PER PLAN

THE POWER SUPPLYING AGENCY FOR THIS PROJECT IS:

SOUTH CENTRAL POWER COMPANY 2780 COONPATH ROAD NE LANCASTER, OH 43130 PHONE: (800) 282-5064 CONTACT: MICHAEL CONRAD

THE CONTRACTOR WILL BE RESPONSIBLE FOR CONTACTING THE POWER COMPANY FOR THE ELECTRICAL SERVICE CONNECTION. A MINIMUM OF THREE MONTHS NOTICE SHALL BE GIVEN TO THE POWER COMPANY FOR NEW INSTALLATIONS. THE CONTRACTOR WILL BE RESPONSIBLE FOR REQUESTING AND SCHEDULING ANY INSPECTIONS THE POWER COMPANY MAY REQUIRE FOR THE POWER SERVICE HOOK-UP.

UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR SPLICE SERVICE CABLE INTO THE POWER COMPANY'S CIRCUITS.

THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY NECESSARY PERMITS AND THE PAYING OF ALL FEES ASSOCIATED WITH THE SERVICE. THE CONTRACTOR SHALL PAY ALL POWER CHARGES UNTIL THE SIGNALS AND LIGHTING SYSTEM IS ACCEPTED BY ODOT.

IF THE PROPOSED POWER SERVICE LOCATION SHOWN IN THE PLANS IS NOT FEASIBLE THEN THE CONTRACTOR SHALL MOVE THE POWER SERVICE LOCATION AT THE APPROVAL OF THE ENGINEER. ITEMIZED QUANTITIES SHALL BE ADJUSTED.

PADLOCKS FURNISHED SHALL BE EITHER BRASS OR BRONZE, EQUAL TO MASTER NO. 4BKA OR WILSON BOHANNON 660A, AND KEYING SHALL BE TO THE ODOT MASTER.

THE CONTRACTOR SHALL INSTALL A POWER SERVICE CONFORMING TO SCD TC-83.10. THE PHOTO-CELL SHALL BE MOUNTED 10 FEET ABOVE THE NEAREST EDGE OF PAVEMENT ELEVATION. THE POWER SERVICE SHALL BE A MINIMUM OF 60 AMP SERVICE. PROVIDE SEPARATE DISCONNECTS FOR THE 120/240V LIGHTING CIRCUIT, AS WELL AS THE 120/240V TRAFFIC SIGNALS.

PAYMENT SHALL BE MADE AT THE UNIT PRICE BID FOR THE POWER SERVICE, COMPLETE AND IN PLACE, INCLUDING, PHOTO-CELL, CONDUIT RISER, ALL CABLE, CONDUIT, CLAMPS, TRENCHING, POWER CABLE, FITTINGS, DISCONNECT SWITCH WITH ENCLOSURE, METER BASE, GROUND RODS, PADLOCK AND KEY, PULL BOX, WOOD POLE, AND ALL INCIDENTALS NECESSARY FOR COMPLETE SERVICE, ALL CONNECTIONS TESTED AND ACCEPTED.

THE FOLLOWING QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY:

ITEM 632, POWER SERVICE, AS PER PLAN 1 EACH

		POWER SERV	ICE DATA		
POWER SERVICE	LINE VOLTS	CONNECTED LOAD (KVA)	SERVICE ENTRANCE CONDUCTOR SIZE NO.	ENCLOSURE RATING (AMPS)	CIRCUIT NO.
EXISTING	120/240V 1	5	1/0		SIGNAL
POWER POLE STA 312+82.05, 71.96' LT	PHASE 3-WIRE 3- COND. W/ GND. NEUTRAL	CIRCUIT LOAD (AMPS)	CIRCUIT FUSE SIZE (AMPS)	CIRCUIT CABLE SIZE (AWG)	MAINTAINING AGENCY
		7	£30	6	ODOT DISTRICT 5

			I					625	625	625	625	625	625	625	<u>.</u>	625	625	625	625	630	630	632	632	632
														}		3			AND					
								PULL	PULL		-	.	LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN, 150 W, 120V, TYPE II)	}		3 5		UNDERGROUND WARNING/MARKING TAPE	S A	SIGN SUPPORT ASSEMBLY, POLE MOUNTED		VEHICULAR SIGNAL HEAD, (LED), 3 SECTION, 12" LENS, 1-WAY, POLYCARBONATE, BLACK	VEHICULAR SIGNAL HEAD, (LED), 5 SECTION, 12" LENS, 1-WAY, POLYCARBONATE, BLACK	COVERING OF VEHICULAR SIGNAL HEAD
	щ	!						- E	CONNECTION, UNFUSED APART	30,	725.051	CONDUIT, 4", 725.051	AS ₹	}		3, 18		무이	FLASH CALCULATIONS LABEL		SIGN, FLAT SHEET	H	H	<u> 3</u> _
	REFERENCE					SIZE		L SE	J. L	ARM,	725	725	() VE	_ <u>_</u> _ }		725.08,	GROUND ROD		₹ ,	ASS NTE	SHE	N AZ X	NAI RB 7	₩ ₩
	T.		STATION	CODE	1 (INCHES	3)	AR'F	N A	₹	2",	4",	12 (E Q	TRENCH	:	3,72	9	GR(O: III	F3	AT:	S	S	K -
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								CONNECTION, FUSED APART		8	8	00	₹ G ×	\		PULL		교육	Ä	Z	SI	HC (6);	HC (A), 4	VEF
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		INTERSECT	RSVILLE ROAD (SR																					
	158) AND F	PLEASANT	/ILLE ROAD (CR 17)																					
04	C		313+25.94								~~~	~~~		~~~	~~~	~~~	~~	~~~	1					
	C1	PB1	0.0 20.0 .							}	25	25		25				25	•					
	PB1	SP1								8	10	10		10	التين	·····		10						
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\rightarrow	SF SP		312+92.69 311+82.07	R9-3-18 R9-3-18	18 18	X X	24 24										1 1			<u>(1</u>	3 7	1		1
-+	SP		313+18.53	R9-3-18	18	x	24										1 1			[3 3	1		1
	SF		312+23.33	R9-3-18	18	х	24										1			} 1	3 3	1		1
\Box	SP1	SP3																		m	wy.	1	1	2
\longrightarrow	SP3 SP4	SP4 SP2				-																2	1	2
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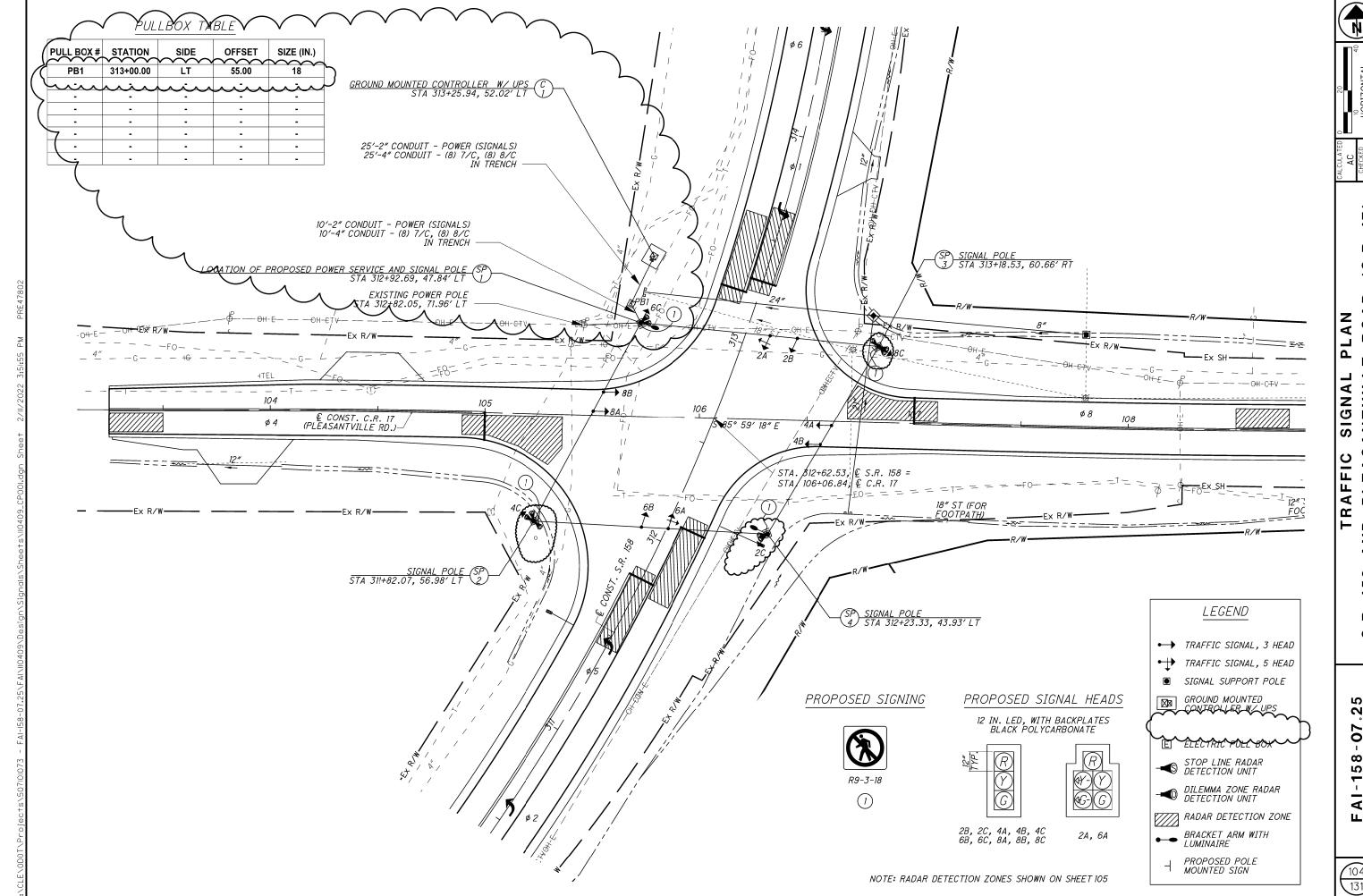
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			632	632	632	632	632	632	632	632	632	632	633	633	633	633	809	809	809					
SHEET NO.	REFERENCE	STATION	MESSENGER WIRE, 7 STRAND, 3/8" DIAMETER WITH ACCESSORIES	TETHER WIRE, WITH ACCESSORIES	SIGNAL CABLE, 4 CONDUCTOR, NO 14 AWG	SIGNAL CABLE, 7 CONDUCTOR, NO 14 AWG	STRAIN POLE FOUNDATION	TEST HOLE PERFORMED	POWER CABLE, 3 CONDUCTOR, NO. 8 AWG	POWER SERVICE, AS PER PLAN	STRAIN POLE, TYPE TC-81.11, DESIGN 12	COMBINATION STRAIN POLE, TYPE TC-81.11, DESIGN 12	CABINET, (TYPE 332), AS PER PLAN	CABINET FOUNDATION, AS PER PLAN	CONTROLLER WORK PAD, AS PER PLAN	UNINTERRUPTIBLE POWER SUPPLY (UPS), 1000 WATT, AS PER PLAN	ADVANCE RADAR DETECTION, AS PER PLAN	STOP LINE RADAR DETECTION, AS PER PLAN	ATC CONTROLLER, AS PER PLAN (PROGRAM AND INSTALL ONLY)					CALCULAT AC
	FROM TO		FT	FT	FT	FT	EACH	EACH	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH					_
	INTERSEC LANCASTER-KIRKER 158) AND PLEASANTY	RSVILLE ROAD (SR																						>
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	SP3 SP4	313+18.53 312+23.33									1	1					1	1						ء
	SP1 SP3		115	115			1	1									-							
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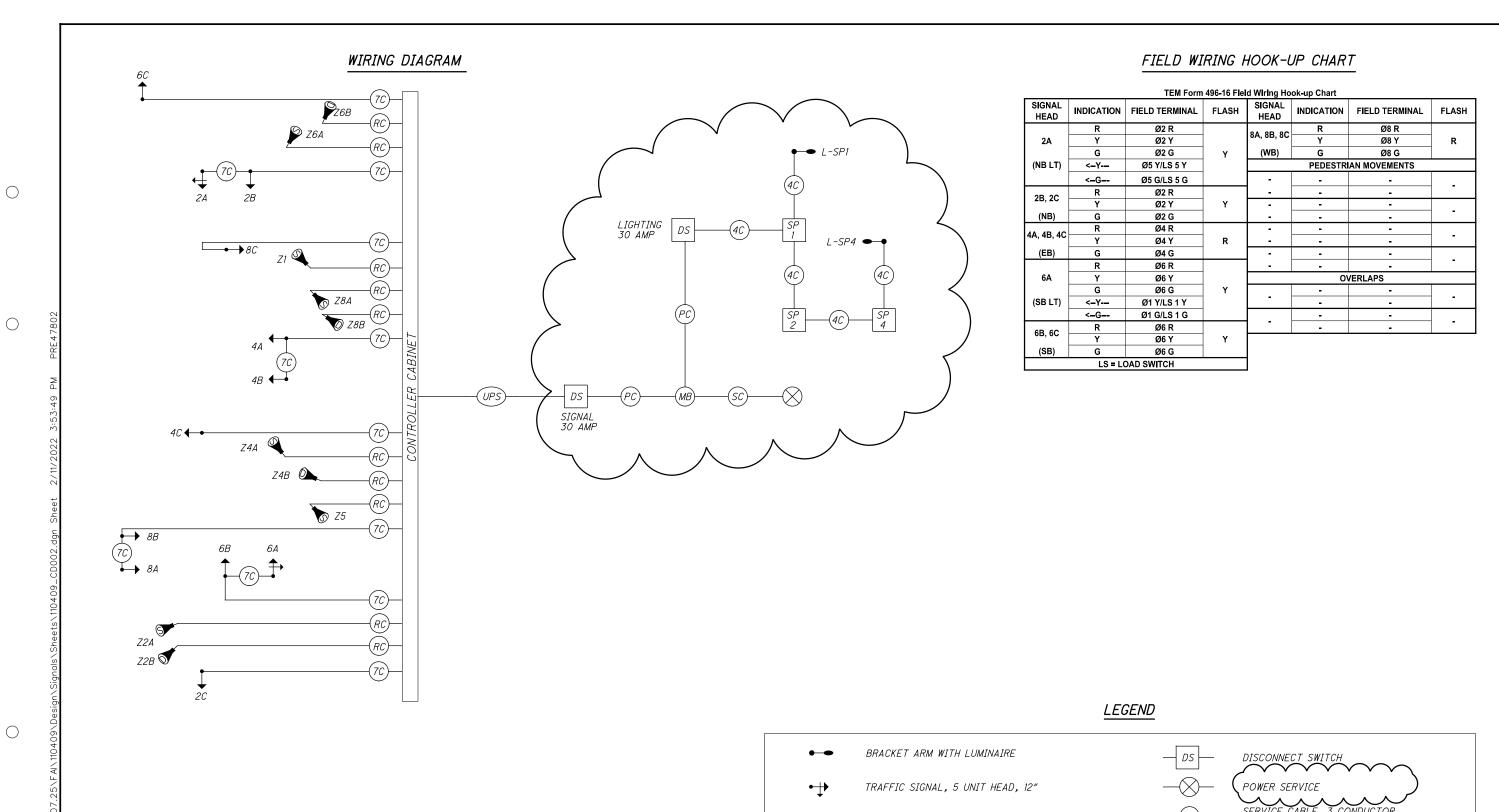
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PHOTOELECTRIC CELL

METER BASE

SIGNAL SUPPORT POLE NO. __

UNINTERRUPTIBLE POWER SUPPLY CABLE



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TRAFFIC SIGNAL, 3 UNIT, 12"

DILEMMA ZONE RADAR DETECTION UNIT

STOP LINE RADAR DETECTION UNIT

SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG

SIGNAL CABLE, 4 CONDUCTOR, NO. 14 AWG

RADAR DETECTION CABLE