

SHEET NUM.											PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
			81	119	120	121	122				01/SAF/28	EXT	TOTAL				
																TRAFFIC SIGNALS	
					10						10	625	00450	10	EACH	CONNECTION, FUSED PULL APART	
					10						10	625	00480	10	EACH	CONNECTION, UNFUSED PERMANENT	
					4						4	625	17951	4	EACH	BRACKET ARM, 6', AS PER PLAN	118
						159					159	625	25402	159	FT	CONDUIT, 2", 725.05	
						57					57	625	25502	57	FT	CONDUIT, 3", 725.05	
						30					30	625	25602	30	FT	CONDUIT, 4", 725.05	
						108					108	625	25908	108	FT	CONDUIT, JACKED OR DRILLED, 725.052, 2"	
						445					445	625	25908	445	FT	CONDUIT, JACKED OR DRILLED, 725.052, 4"	
					6						6	625	27507	6	EACH	LUMINAIRE, TEARDROP, SOLID STATE (LED), AS PER PLAN, IES-II-M, EQUIVALENT TO 250 WATT HPS (120 VOLT)	118
						231					231	625	29000	231	FT	TRENCH	
					7						7	625	30700	7	EACH	PULL BOX, 725.08, 18"	
					2						2	625	30706	2	EACH	PULL BOX, 725.08, 24"	
					10						10	625	31510	10	EACH	PULL BOX REMOVED	
		1				20	2				23	625	32000	23	EACH	GROUND ROD	
							17				17	632	05007	17	EACH	VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, AS PER PLAN	118
							2				2	632	05065	2	EACH	VEHICULAR SIGNAL HEAD, (LED), 4-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, AS PER PLAN	118
							14				14	632	20731	14	EACH	PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN, AS PER PLAN	115
							18				18	632	26000	18	EACH	PEDESTRIAN PUSHBUTTON	
					1,241						1,241	632	30980	1,241	FT	SIGNAL CABLE, 3 CONDUCTOR, NO. 10 AWG	
							1,842				1,842	632	40500	1,842	FT	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG	
							2,514				2,514	632	40700	2,514	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG	
						8					8	632	64011	8	EACH	SIGNAL SUPPORT FOUNDATION, AS PER PLAN	118
						12					12	632	64021	12	EACH	PEDESTAL FOUNDATION, AS PER PLAN	118
				8							8	632	64950	8	EACH	TEST HOLE PERFORMED	119
							2,301				2,301	632	65200	2,301	FT	LOOP DETECTOR LEAD-IN CABLE	
						79					79	632	68300	79	FT	POWER CABLE, 3 CONDUCTOR, NO. 6 AWG	
						239					239	632	69800	239	FT	SERVICE CABLE, 3 CONDUCTOR, NO. 6 AWG	
							2				2	632	70001	2	EACH	POWER SERVICE, AS PER PLAN	119
							1				1	632	70200	1	EACH	CONDUIT RISER, 1" DIAMETER	
							2				2	632	70400	2	EACH	CONDUIT RISER, 2" DIAMETER	
							1				1	632	72111	1	EACH	SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 4, AS PER PLAN	118
							1				1	632	72141	1	EACH	SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 13, AS PER PLAN	118
							1				1	632	79111	1	EACH	COMBINATION SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 4, AS PER PLAN	118
							1				1	632	79141	1	EACH	COMBINATION SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 13, AS PER PLAN	118
							16				16	632	80700	16	EACH	SIGNAL SUPPORT, MISC.: ANCHOR BOLTS	119
							12				12	632	90001	12	EACH	PEDESTAL, 11', TRANSFORMER BASE, AS PER PLAN	118
							2				2	632	90101	2	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION, AS PER PLAN	115
							1				1	632	90104	1	EACH	REUSE OF TRAFFIC CONTROL ITEM, RADIO AND ANTENNA	
							4				4	632	90207	4	EACH	REUSE OF SIGNAL SUPPORT, AS PER PLAN	119
							4				4	632	90400	4	EACH	SIGNALIZATION, MISC.: BICYCLE SIGNAL HEAD, (LED), 3-SECTION, 8" 1-WAY, POLYCARBONATE	118
							2				2	633	67100	2	EACH	CABINET FOUNDATION	
							2				2	633	67200	2	EACH	CONTROLLER WORK PAD	
							2				2	633	74001	2	EACH	UNINTERRUPTIBLE POWER SUPPLY (UPS), AS PER PLAN	117
							2				2	633	99000	2	EACH	CONTROLLER ITEM, MISC.: CABINET, TYPE TS1	115
							1				1	633	99000	1	EACH	CONTROLLER ITEM, MISC.: REUSE OF SPREAD SPECTRUM RADIO	119
							9				9	809	69101	9	EACH	STOP LINE RADAR DETECTION, AS PER PLAN	118
							2				2	809	69123	2	EACH	ATC CONTROLLER, AS PER PLAN	118
							2				2	809	69201	2	EACH	EMERGENCY VEHICLE PREEMPTION, AS PER PLAN	116
							4				4	809	69210	4	EACH	PREEMPT RECEIVING UNIT	116
							2				2	809	69211	2	EACH	PREEMPT RECEIVING UNIT, AS PER PLAN	116
							621				621	809	69220	621	FT	PREEMPT DETECTOR CABLE	116
							1				1	809	69230	1	EACH	PREEMPT PHASE SELECTOR	116
							1				1	809	69231	1	EACH	PREEMPT PHASE SELECTOR, AS PER PLAN	116
							6				6	809	69240	6	EACH	PREEMPT CONFIRMATION LIGHT	116
							2				2	828	00100	2	EACH	LED BLANKOUT SIGN, R3-1	

GENERAL SUMMARY

DESIGN AGENCY

 DESIGNER
 JRE
 REVIEWER
 DWS 11/01/23
 PROJECT ID
 111388
 SUBSET TOTAL
 0 0
 SHEET TOTAL
 15 171

809 STOP-LINE RADAR DETECTION, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF FURNISHING AND INSTALLING A STOP-LINE RADAR DETECTOR 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.
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.

**632 SIGNAL SUPPORTS, AS PER PLAN
632 COMBINATION SIGNAL SUPPORTS, AS PER PLAN**

IN ADDITION TO THE REQUIREMENTS OF CMS 632 AND 732:

POWDER COAT THE EXTERIOR OF SIGNAL SUPPORTS BLACK AFTER GALVANIZING IN ACCORDANCE WITH ODOT SUPPLEMENTAL SPECIFICATION 916.

PAYMENT SHALL BE MADE AT THE CONTRACT UNIT PRICE BID FOR EACH SUPPORT.

809, ATC CONTROLLER, AS PER PLAN

THE CONTROLLER UNIT SHALL BE FURNISHED AND INSTALLED PER SS 809 AND BE LISTED ON THE TRAFFIC AUTHORIZED PRODUCTS LIST (TAP).

THE CONTROLLER SHALL BE AN ECONOLITE COBALT AND BE COMPATIBLE WITH THE CABINET TYPE BEING SUPPLIED.

THE CONTROLLER SHALL BE FURNISHED WITH THE MOST RECENT SOFTWARE AND PROVIDE ALL FEATURES OF THE LATEST MODEL AVAILABLE.

THE LOCAL CONTROLLER SHALL BE ABLE TO OPERATE TIME OF DAY PATTERNS. THE FOLLOWING FEATURES SHALL BE FURNISHED IN ADDITION TO ALL NEMA TS2 TYPE 2 STANDARDS, ENHANCED MEASURES OF EFFECTIVENESS, AND DIAGNOSTICS THAT ARE AVAILABLE WITH THE MOST RECENT VERSION OF CONTROLLER:

1. TRAFFIC RESPONSIVE COORDINATION PATTERNS MAY BE SELECTED BY EITHER A CYCLE-SPLIT-OFFSET (COS) PATTERN OR BY A SPECIFIC TIMING PLAN.

2. THE PEDESTRIAN CLEARANCE INTERVAL SHALL BE USER PROGRAMMABLE IN THE LOCAL CONTROLLER TO PERMIT EXTENDING THE FLASHING DON'T WALK INTERVAL THROUGH THE YELLOW CHANGE INTERVAL AND/OR ALL-RED CLEARANCE INTERVAL.

ALL SOFTWARE AND FIRMWARE UPGRADES AND NEW RELEASES FOR FEATURES FURNISHED AS PART OF THIS CONTRACT SHALL BE FREE OF CHARGE FOR TWO (2) YEARS AFTER THE COMPLETION OF THE 10-DAY PERFORMANCE TEST.

THE CONTROLLER AND ALL RELATED COMPONENTS SHALL BE IN WORKING ORDER AND READY FOR INSTALLATION/OPERATION AT THE SPECIFIED INTERSECTION. THE COST FOR THE CONTROLLER AND CABINET TESTING SHALL BE INCLUDED IN THE PRICE OF THE CONTROLLER FURNISHED COMPLETE.

625, LUMINAIRE, TEARDROP, SOLID STATE (LED), AS PER PLAN, IES-II-M, EQUIVALENT TO 250 WATT HPS (120 VOLT)

IN ADDITION TO THE REQUIREMENTS OF ODOT'S CMS, LUMINAIRES FOR TEARDROP LIGHTING UNITS SHALL BE AS FOLLOWS:

LUMINAIRES FOR TEARDROP LIGHTING UNITS WITH AN IES-II-M-FC DISTRIBUTION AND TYPICAL LUMEN OUTPUT EQUIVALENT TO 250W HPS (120 VOLT) SHALL MEET SPECIFICATIONS FOR APPROVED MODELS ON THE ODOT OFFICE OF ROADWAY ENGINEERING APPROVED LIST FOR SS 813.

THE EXTERIOR OF LUMINAIRES AND ACCESSORIES SHALL BE POWDER COATED BLACK.

LUMINAIRES SHALL BE MOUNTED ON BOTH EXISTING AND PROPOSED BRACKET ARMS AS SHOWN IN THE PLANS.

PAYMENT WILL BE MADE AT THE UNIT BID PRICE FOR EACH CMS ITEM 625 - LUMINAIRE, TEARDROP, SOLID-STATE (LED), IES-III-M-FC, EQUIVALENT TO 250W HPS (120 VOLT), AS PER PLAN FOR EACH LUMINAIRE WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS, AND INCIDENTALS REQUIRE TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

630, SIGN HANGER ASSEMBLY, MAST ARM, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF ODOT ITEM 630 AND 730, THE FOLLOWING REQUIREMENTS SHALL APPLY:

--PROVIDE RIGID MOUNT MAST ARM SIGN HANGER ASSEMBLIES.

--POWDER COAT OR PAINT MOUNTING HARDWARE BLACK. PROVIDE PAINT INTENDED FOR THIS APPLICATION AND FOLLOW MANUFACTURER'S SPECIFICATIONS.

--THE CITY OF VANDALIA WILL PROVIDE SINGLE-SIDED OVERHEAD STREET NAME SIGNS. VERTICAL DIMENSIONS WILL BE 16 INCHES. HORIZONTAL LENGTHS WILL VARY.

--ERECT AND ENSURE THE SIGNS ARE LEVEL AND LOCATED AS SHOWN ON THE PLANS.

--DRILL THE SIGNS FURNISHED BY THE CITY TO MATCH THE SIGN HANGER ASSEMBLIES. ENSURE THE HOLES DO NOT OBSCURE LETTERING ON THE SIGN.

--THE DIRECTOR OF PUBLIC SERVICE SHALL APPROVE THE FINAL LOCATION OF SIGNS ON THE SIGNAL SUPPORT ARM.

ALL LABOR, MATERIAL AND EQUIPMENT COSTS ASSOCIATED WITH THIS ITEM SHALL BE INCLUDED IN THE BID PRICE FOR "ITEM 630 SIGN HANGER ASSEMBLY, MAST ARM, AS PER PLAN".

**632, SIGNALIZATION, MISC.: BICYCLE SIGNAL HEAD, (LED), 3-SECTION 8" 1-WAY, POLYCARBONATE
632, VEHICULAR SIGNAL HEAD, (LED), <BY SECTION>, 12" LENS, 1-WAY, POLYCARBONATE, AS PER PLAN, BACKPLATE, BLACK**

IN ADDITION TO THE REQUIREMENTS OF C&MS 632 AND 732, THE FOLLOWING REQUIREMENTS SHALL APPLY:

--SIGNAL HEAD FACES, BODIES AND VISORS SHALL BE CONSTRUCTED OF BLACK POLYCARBONATE PLASTIC WITH FULL TUNNEL VISORS OPEN AT THE BOTTOM.

--PROPER EXTERIOR COLORS SHALL BE OBTAINED BY USE OF COLORED PLASTIC MATERIAL RATHER THAN PAINTING.

--ALL SIGNAL SUPPORT HARDWARE SHALL BE FERROUS METAL AND POWDER COATED OR PAINTED BLACK WITH PAINT INTENDED FOR THE PURPOSE. FOLLOW PAINT MANUFACTURER'S DIRECTIONS.

--THE ENTRANCE FITTING SHALL BE OF THE TRI-STUD DESIGN WITH SERRATED RINGS IN ORDER TO ACHIEVE POSITIVE LOCKING.

--ALL SIGNAL HEADS SHALL BE RIGIDLY MOUNTED TO THE MAST ARM WITH THE YELLOW MODULE LOCATED IN FRONT OF THE MAST ARM.

--ALUMINUM BACKPLATES SHALL BE IN ACCORDANCE WITH THE C&MS AND INCLUDE A FLUORESCENT YELLOW REFLECTIVE BORDER.

--THE LIGHT EMITTING DIODE (LED) MODULES SHALL MEET THE REQUIREMENTS OF C&MS 732.04-C. THE CONTRACTOR SHALL PROVIDE THE LED MANUFACTURER NAME, SERIAL NUMBER, PART NUMBER, DESCRIPTION OF LAMP, AND DATE OF MANUFACTURE FOR ALL LED UNITS THAT ARE TO BE USED IN THE SIGNAL HEAD PRIOR TO INSTALLATION, FOR ACCEPTANCE AND WARRANTY PURPOSES.

--SIGNAL HEADS SHALL HAVE A MINIMUM WALL THICKNESS OF 0.117 INCHES.

--APPLY A BEAD OF SILICONE TO THE SIGNAL HEAD, WASHER, AND ENTRANCE ADAPTER SERRATIONS TO PREVENT WATER INTRUSION. ALSO, FILL THE SPACE BETWEEN CONCENTRIC SERRATION RINGS ON THE TOP OF THE SIGNAL HEAD TO COMPLETELY EXCLUDE WATER FROM THE SPACE BETWEEN THE CONCENTRIC RINGS.

PAYMENT FOR VEHICLE AND BICYCLE SIGNAL HEADS SHALL BE MADE FOR COMPLETE SIGNAL HEAD FURNISHED AND INSTALLED INCLUDING ALL LABOR, EQUIPMENT, MATERIALS, AND NEW ATTACHMENT HARDWARE.

**632 SIGNAL SUPPORT FOUNDATION, AS PER PLAN
632 PEDESTAL FOUNDATION, AS PER PLAN**

IN ADDITION TO THE REQUIREMENTS OF CMS 632, THE PROPOSED SIGNAL SUPPORT AND PEDESTAL FOUNDATIONS SHALL BE HYDRO-EXCAVATED IN LIEU OF EARTH AUGER.

DUE TO THE FURTHER POSSIBILITY OF CONFLICT WITH EXISTING OR PROPOSED UNDERGROUND OBSTRUCTIONS (INCLUDING THE POSSIBILITY OF UNRECORDED OBSTRUCTIONS) WHICH COULD AFFECT THE LOCATION OF THE FOUNDATION FOR THIS ITEM, AND CONSEQUENTLY, THE DESIGN OF THE SUPPORT AND/OR ARMS, THE CONTRACTOR SHALL NOT PLACE FINAL ORDERS FOR THE ITEM UNTIL THE FOUNDATIONS HAVE BEEN INSTALLED, AT FINAL GRADE, AND THE CONTRACTOR HAS RECEIVED, FROM ENGINEER, WRITTEN NOTICE TO PROCEED WITH THE ORDERS FOR THE ITEM.

IF ANY FOUNDATION LOCATIONS MUST BE ADJUSTED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND MAINTAINING AGENCY, WHO WILL DETERMINE THE REVISED LOCATION AND IF NEEDED, THE SUPPORT DESIGN. THE CONTRACTOR WILL NOT BE RESPONSIBLE FOR DETERMINING THE REVISED DESIGN. THE ENGINEER WILL INFORM THE CONTRACTOR OF ANY CHANGES NECESSARY AND AUTHORIZE THE CONTRACTOR TO ORDER THE SUPPORT.

THE CONTRACTOR SHALL, WHEN DEVELOPING THE PROGRESS SCHEDULE, AND THOSE OF SUBCONTRACTORS, ENSURE THAT THE FOUNDATIONS ARE INSTALLED AT THE EARLIEST TIME AS IS FEASIBLE AND PRACTICAL, AND SHALL INCLUDE SUFFICIENT TIME IN THE PROGRESS SCHEDULE FOR ORDERING, MANUFACTURING, DELIVERY, AND INSTALLATION OF THE SUPPORT ITEMS AFTER THE FOUNDATIONS ARE IN PLACE.

NO PAYMENTS FOR DELIVERED MATERIALS FOR THE FOUNDATION OR SUPPORT ITEMS SHALL BE MADE UNTIL THE FOUNDATIONS ARE IN PLACE, AND IF CHANGES IN THE DESIGN OF THIS ITEM ARE REQUIRED, NO PAYMENT SHALL BE MADE FOR THE ITEMS MANUFACTURED TO THE ORIGINAL DESIGN.

PAYMENT WILL BE AT THE CONTRACT UNIT PRICE AND WILL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS, TOOLS, EQUIPMENT AND OTHER INCIDENTALS NECESSARY FOR EACH FOUNDATION, IN PLACE, COMPLETE AND ACCEPTED.

625 BRACKET ARM, 6', AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF CMS 625, THE EXTERIOR OF BRACKET ARMS SHALL BE POWDER COATED BLACK AFTER GALVANIZING IN ACCORDANCE WITH ODOT SUPPLEMENTAL SPECIFICATION 916.

PAYMENT SHALL BE MADE AT THE CONTRACT UNIT PRICE BID FOR "ITEM 625 BRACKET ARM, 6', AS PER PLAN", COMPLETE.

632 PEDESTAL, 11', TRANSFORMER BASE, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF CMS 632, THE EXTERIOR OF PEDESTALS AND ACCESSORIES SHALL BE POWDER COATED BLACK AFTER GALVANIZING IN ACCORDANCE WITH ODOT SUPPLEMENTAL SPECIFICATION 916.

PAYMENT SHALL BE MADE AT THE CONTRACT UNIT PRICE BID FOR "ITEM 632 PEDESTAL, 11', TRANSFORMER BASE, AS PER PLAN", COMPLETE.



REF NO.	SHEET NO.	STATION TO STATION			625	625	625	625	625	625	632	625	630	630	630	630	809	809	809	809	809	809	809	828	
					CONNECTION, FUSED PULL APART	CONNECTION, UNFUSED PERMANENT	BRACKET ARM, 6' AS PER PLAN	LUMINAIRE, TEARDROP, SOLID STATE (LED), AS PER PLAN, IES-II-M, EQUIVALENT TO 250 WATT HPS (120 VOLT)	PULL BOX, 725.08, 18"	PULL BOX, 725.08, 24"	SIGNAL CABLE, 3 CONDUCTOR, NO. 10 AWG	PULL BOX REMOVED	SIGN HANGER ASSEMBLY, MAST ARM, AS PER PLAN	SIGN SUPPORT ASSEMBLY, POLE MOUNTED	SIGN, FLAT SHEET	SIGN ERECTED, FLAT SHEET	REMOVAL OF OVERHEAD MOUNTED SIGN AND REERECTION	EMERGENCY VEHICLE PREEMPTION, AS PER PLAN	PREEMPT RECEIVING UNIT	PREEMPT RECEIVING UNIT, AS PER PLAN	PREEMPT DETECTOR CABLE	PREEMPT PHASE SELECTOR	PREEMPT PHASE SELECTOR, AS PER PLAN	PREEMPT CONFIRMATION LIGHT	LED BLANKOUT SIGN, R3-1
					EACH	EACH	EACH	EACH	EACH	EACH	FT	EACH	EACH	EACH	SF	SF	EACH	EACH	EACH	EACH	FT	EACH	EACH	EACH	
SP-1	123	94+18	57.6 R	NATIONAL	1	1	1	1			61												1		
SP-2	123	93+55	47.3 R	NATIONAL	1	1	1	1			206														
SP-3	123	93+41	42.1 L	NATIONAL	1	1	1	1			260														
SP-4	123	94+15	43.5 L	NATIONAL	1	1	1	1			194														
CONT	123			NATIONAL								8					1					1			
SP-1	127			SCHOLZ/CASSEL																					
SP-2	127	25+94	45.4 L	SCHOLZ/CASSEL	1	1		1			137														
SP-3	127	26+50	45.8 R	SCHOLZ/CASSEL	1	1		1			184														
SP-4	127			SCHOLZ/CASSEL																					
CONT	127			SCHOLZ/CASSEL								2					1					1			
Pb1	123	94+37	45.0 R	NATIONAL																					
Pb2	123	94+18	65.2 R	NATIONAL					1		1														
Pb3	123	93+54	42.2 R	NATIONAL					1																
Pb4	123	93+57	50.9 L	NATIONAL					1																
Pb5	123	94+12	45.0 L	NATIONAL					1																
Pb1	127	26+52	54.6 L	SCHOLZ/CASSEL							1														
Pb2	127	25+93	54.0 L	SCHOLZ/CASSEL					1																
Pb3	127	26+40	52.6 R	SCHOLZ/CASSEL					1																
Pb4	127	25+85	54.4 R	SCHOLZ/CASSEL					1																
SN1	123	R3-5L-30	SP-1	NATIONAL										1		7.50									
SN2	123	EX SNS	SP-1	NATIONAL	1	1					60						1								
SN3	123	R3-5L-30	SP-2	NATIONAL										1		7.50									
SN4	123	EX SNS	SP-2	NATIONAL	1	1					50						1								
SN5	123	R3-5L-30	SP-3	NATIONAL										1		7.50									
SN6	123	EX SNS	SP-3	NATIONAL	1	1					37						1								
SN7	123	R3-6L-30	SP-4	NATIONAL										1		7.50									
SN8	123	EX SNS	SP-4	NATIONAL	1	1					52						1								
SN9	123	LED	SP-4	NATIONAL										1										1	
SN10	123	R10-11B-36	SP-3	NATIONAL										1		9.00									
SN1	127	R3-5L-30	SP-1	SCHOLZ/CASSEL										1		7.50									
SN2	127	R3-5L-30	SP-2	SCHOLZ/CASSEL										1		7.50									
SN3	127	R3-5L-30	SP-3	SCHOLZ/CASSEL										1		7.50									
SN4	127	R3-5L-30	SP-4	SCHOLZ/CASSEL										1		7.50									
SN5	127	R9-3BP-18	SP-1	SCHOLZ/CASSEL										1		1.50									
SN6	127	R9-3BP-18	SP-2	SCHOLZ/CASSEL										1		1.50									
SN7	127	CITY SNS	SP-1	SCHOLZ/CASSEL										1											
SN8	127	CITY SNS	SP-2	SCHOLZ/CASSEL										1											
SN9	127	CITY SNS	SP-2	SCHOLZ/CASSEL										1											
SN10	127	CITY SNS	SP-3	SCHOLZ/CASSEL										1											
SN11	127	CITY SNS	SP-3	SCHOLZ/CASSEL										1											
SN12	127	CITY SNS	SP-4	SCHOLZ/CASSEL										1											
SN13	127	LED	SP-3	SCHOLZ/CASSEL																				1	
SN14	127	R9-7-12	PS-5	SCHOLZ/CASSEL										1		1.50									
SN15	127	R9-3-18	SP-2	SCHOLZ/CASSEL										1		2.25									
SN16	127	R9-3-18	SP-1	SCHOLZ/CASSEL										1		2.25									
TOTALS CARRIED TO GENERAL SUMMARY					10	10	4	6	7	2	1241	10	16	5	78.00	6	4	2	4	2	621	1	1	6	2

TRAFFIC SIGNAL SUBSUMMARY

DESIGN AGENCY

 DESIGNER
 JDO
 REVIEWER
 LAS 11/01/23
 PROJECT ID
 111388
 SHEET TOTAL
 120 171