SHEET NUM.						PART.		ITEM	GRAND							
5	10	11	37						01/SAF/OT	ITEM	EXT	TOTAL	UNIT	DESCRIPTION	SHEET NO.	
														ROADWAY		1
LS		1							LS	201	11000	LS		CLEARING AND GRUBBING		1
	132								132	202	23000	132	SY	PAVEMENT REMOVED		
	2,354								2,354	202	30000	2,354		WALK REMOVED		-
	490								490	202	32000	490	FT	CURB REMOVED		-
200	1,212								1,412	608	10000	1,412	SF	4" CONCRETE WALK		1
	1,419								1,419	608	52000	1,419		CURB RAMP		1
	10								10	608	53020	10	SF	DETECTABLE WARNING		-
20									20	653	10000	20	CY	EROSION CONTROL TOPSOIL FURNISHED AND PLACED		
20									20	000	10000	20	- C1	TOP SOIL FURNISHED AND FLACED		1
500									500	659	00500	500		SEEDING AND MULCHING, CLASS 1		1
25									25	659	14000	25		REPAIR SEEDING AND MULCHING		4
0.03									0.03	659 659	20000 31000	0.03 0.09	TON ACRE	COMMERCIAL FERTILIZER LIME		-
3									3	659	35000	3		WATER		1
												-				1
														DRAINAGE		] ≥
	4								4	611	98634	4	EACH	CATCH BASIN RECONSTRUCTED TO GRADE		Y COMMIN
														PAVEMENT		<b>∤</b> ≥
	587								587	252	01500	587	FT	FULL DEPTH PAVEMENT SAWING		]
																] <sub>0</sub>
	18								18	304	20000	18	CY	AGGREGATE BASE		
	60								60	452	12010	60	SY	8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P		
100	206								406	600	26000	406	ГТ	CURR TYPE 6		-
100	306								406	609	26000	406	FT	CURB, TYPE 6		1 1
														TRAFFIC CONTROL		ქ (
		13							13	630	03100	13	FT	GROUND MOUNTED SUPPORT, NO. 3 POST		1
		1							1	630	08600	1		SIGN POST REFLECTOR		1
-		4	3						3	630	79000	3 11.5		SIGN HANGER ASSEMBLY, SPAN WIRE	1	-
		+	7.5 6						11.5 6	630 630	80100 80500	6		SIGN, FLAT SHEET SIGN, DOUBLE FACED, STREET NAME		┨
												-				1
			9						9	630	87100	9		REMOVAL OF OVERHEAD MOUNTED SIGN AND REFRECTION		4
			2						2	630	87520	2	EACH	REMOVAL OF POLE MOUNTED SIGN AND REERECTION		-{
		24	+						24	644	00500	24	FT	STOP LINE		1
ugg		1,260							1,260	644	00600	1,260		CROSSWALK LINE		1
G001.		1,019							1,019	644	30000	1,019	FT	REMOVAL OF PAVEMENT MARKING		
327_G														TRAFFIC SIGNALS		1
12			3						3	625	17960	3		BRACKET ARM, 8'		1
<u> </u>			2						2	625	18400	2		BRACKET ARM, 20'		-
Sheets\1			1,548						1,548 387	625 625	23000 23400	1,548 387		NO. 4 AWG 600 VOLT DISTRIBUTION CABLE NO. 10 AWG POLE AND BRACKET CABLE		-
dway/Sheets\1			387 I											CONDUIT, 2", 725.04		-
IRoadway/Sheets/			387 20				l l		20	625	25400	20	ГІ	[CONDOIT, 2 , 723.04		1
neering/Roadway/Sheets/									20 214	625 625	25400 25500	214		CONDUIT, 3", 725.04		
1.1.09 FWI OSER* JOSE TAGGINGT			20 214						214	625	25500	214	FT	CONDUIT, 3", 725.04		1
: 12.1.139 FW OSET. JOSI TAGNOTI			20										FT FT			-
IMME. 12.11.39 FW USER, JOSEL ANGUINE 112327/400-Engineering/Roadway/Sheets/			20 214 46 3 257						214 46 3 257	625 625 625 625	25500 25600 26250 29000	214 46 3 257	FT FT EACH FT	CONDUIT, 3", 725.04  CONDUIT, 4", 725.04  LUMINAIRE, CONVENTIONAL (LED), TYPE II, 120V  TRENCH		DESIGNAC
KACA I INIC. 12.1.1.9 FM OSEN, JOSE ZAGIONI			20 214 46 3 257 3						214 46 3 257 3	625 625 625 625 625	25500 25600 26250 29000 30700	214 46 3 257 3	FT FT EACH FT EACH	CONDUIT, 3", 725.04  CONDUIT, 4", 725.04  LUMINAIRE, CONVENTIONAL (LED), TYPE II, 120V  TRENCH  PULL BOX, 725.08, 18"		DESIGN AG
9.24,0.02 INNE. IC.11.09 PM OSEN. SOSI_ROBINOI 18940/JAC/112327/400-Engineering/Raadway/Sheets/			20 214 46 3 257 3 1						214 46 3 257 3 1	625 625 625 625 625 625	25500 25600 26250 29000 30700 30706	214 46 3 257 3 1	FT FT EACH FT EACH EACH	CONDUIT, 3", 725.04  CONDUIT, 4", 725.04  LUMINAIRE, CONVENTIONAL (LED), TYPE II, 120V  TRENCH  PULL BOX, 725.08, 18"  PULL BOX, 725.08, 24"		DESIGN AG
N. L. J. Z. 1. COS P. M. COS P. COS P			20 214 46 3 257 3						214 46 3 257 3	625 625 625 625 625	25500 25600 26250 29000 30700	214 46 3 257 3	FT FT EACH FT EACH EACH	CONDUIT, 3", 725.04  CONDUIT, 4", 725.04  LUMINAIRE, CONVENTIONAL (LED), TYPE II, 120V  TRENCH  PULL BOX, 725.08, 18"		DESIGN AG
J. DAIL: 3/24/2/22 INFC: 12.11.09 TM OSEXJOSH TAUGHOR			20 214 46 3 257 3 1						214 46 3 257 3 1	625 625 625 625 625 625	25500 25600 26250 29000 30700 30706	214 46 3 257 3 1	FT FT EACH FT EACH EACH EACH	CONDUIT, 3", 725.04  CONDUIT, 4", 725.04  LUMINAIRE, CONVENTIONAL (LED), TYPE II, 120V  TRENCH  PULL BOX, 725.08, 18"  PULL BOX, 725.08, 24"	36	
1 (ii.) DATE. 3/24/2022 1 IME. 12.11.39 TW OSER, JUSTINOSION INOGINALIST PROCESSION IN TRANSPORT			20 214 46 3 257 3 1 22 22 28						214 46 3 257 3 1 22 22 28	625 625 625 625 625 625 625 625 632	25500 25600 26250 29000 30700 30706 32000 04000 05007	214 46 3 257 3 1 22 22 28	FT FT EACH FT EACH EACH EACH EACH EACH	CONDUIT, 3", 725.04  CONDUIT, 4", 725.04  LUMINAIRE, CONVENTIONAL (LED), TYPE II, 120V  TRENCH  PULL BOX, 725.08, 18"  PULL BOX, 725.08, 24"  GROUND ROD  VEHICULAR SIGNAL HEAD, MISC.: ADD BACKPLATE  VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, AS PER PLAN	34	
:: (1X1   III.) DATE. SPAZOZZ IME. IZ.11.09 FM OSER, SUSI_ROBINO PM OSER			20 214 46 3 257 3 1 22 22 28 8						214 46 3 257 3 1 22 22 28 8	625 625 625 625 625 625 625 632 632 632	25500 25600 26250 29000 30700 30706 32000 04000 05007 05087	214 46 3 257 3 1 22 22 28 8	FT FT EACH FT EACH EACH EACH EACH EACH EACH	CONDUIT, 3", 725.04  CONDUIT, 4", 725.04  LUMINAIRE, CONVENTIONAL (LED), TYPE II, 120V  TRENCH  PULL BOX, 725.08, 18"  PULL BOX, 725.08, 24"  GROUND ROD  VEHICULAR SIGNAL HEAD, MISC.: ADD BACKPLATE  VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, AS PER PLAN  VEHICULAR SIGNAL HEAD, (LED), 5-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, AS PER PLAN	34 34	
SOLE. IXII (III.) DAIE. SAUDZE INNE. IZ.I.I.OF PM OSEN SOSI_ROBINOI			20 214 46 3 257 3 1 22 22 28 8						214 46 3 257 3 1 22 22 28 8	625 625 625 625 625 625 625 632 632 632 632	25500 25600 26250 29000 30700 30706 32000 04000 05007 05087 20731	214 46 3 257 3 1 22 22 28 8 8	FT  FT  EACH  FT  EACH  EACH  EACH  EACH  EACH  EACH  EACH  EACH	CONDUIT, 3", 725.04  CONDUIT, 4", 725.04  LUMINAIRE, CONVENTIONAL (LED), TYPE II, 120V  TRENCH  PULL BOX, 725.08, 18"  PULL BOX, 725.08, 24"  GROUND ROD  VEHICULAR SIGNAL HEAD, MISC.: ADD BACKPLATE  VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, AS PER PLAN  VEHICULAR SIGNAL HEAD, (LED), 5-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, AS PER PLAN  PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN, AS PER PLAN	34	DESIGNER
PATRICE I VA II (III.) DATE. 3/24/2022 INNE. IZ.11.09 PM OSEN. 3/33/1001 3y.com/ibn-pw-01/Documents/pr88940/JAC/172327/400-Engineering/Roadway/Sheets/			20 214 46 3 257 3 1 22 22 28 8						214 46 3 257 3 1 22 22 28 8	625 625 625 625 625 625 625 632 632 632	25500 25600 26250 29000 30700 30706 32000 04000 05007 05087	214 46 3 257 3 1 22 22 28 8	FT  FT  EACH  FT  EACH  EACH  EACH  EACH  EACH  EACH  EACH  EACH	CONDUIT, 3", 725.04  CONDUIT, 4", 725.04  LUMINAIRE, CONVENTIONAL (LED), TYPE II, 120V  TRENCH  PULL BOX, 725.08, 18"  PULL BOX, 725.08, 24"  GROUND ROD  VEHICULAR SIGNAL HEAD, MISC.: ADD BACKPLATE  VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, AS PER PLAN  VEHICULAR SIGNAL HEAD, (LED), 5-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, AS PER PLAN	34 34	DESIGNER J.
bent PATENSIZE. I X II (III.) DALE SZHAZIZ I INNE. I X. II. 19 PM OSEK-VOSITAQION Dentiley.combn-pw-01/Documentspr684/0.4AC/1/123Z/1400-Engineering/Roadway/Sheets/			20 214 46 3 257 3 1 22 22 28 8						214 46 3 257 3 1 22 22 28 8	625 625 625 625 625 625 625 632 632 632 632	25500 25600 26250 29000 30700 30706 32000 04000 05007 05087 20731	214 46 3 257 3 1 22 22 28 8 8	FT  FT  EACH  FT  EACH  EACH  EACH  EACH  EACH  EACH  EACH  EACH	CONDUIT, 3", 725.04  CONDUIT, 4", 725.04  LUMINAIRE, CONVENTIONAL (LED), TYPE II, 120V  TRENCH  PULL BOX, 725.08, 18"  PULL BOX, 725.08, 24"  GROUND ROD  VEHICULAR SIGNAL HEAD, MISC.: ADD BACKPLATE  VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, AS PER PLAN  VEHICULAR SIGNAL HEAD, (LED), 5-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, AS PER PLAN  PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN, AS PER PLAN	34 34	DESIGNER J. REVI
L. Silveet PAFENNEL. I XI I (II.) DATE, SPAZZZ I INEL. IZ.11.39 PM OSEK, JOSEF ANGION WAYSHOEK!  N-pw. bentley.com/bh-pw-01/Documents/pr5840/JAC/112327400-Engineering/Roadway/Sheets/			20 214 46 3 257 3 1 22 22 28 8 8 8 36						214 46 3 257 3 1 22 22 28 8 8 8	625 625 625 625 625 625 625 632 632 632 632 632	25500  25600  26250  29000  30700  30706  32000  04000  05007  05087  20731  25000	214 46 3 257 3 1 22 22 28 8 8 8	FT  FT  EACH  FT  EACH  EACH	CONDUIT, 3", 725.04  LUMINAIRE, CONVENTIONAL (LED), TYPE II, 120V  TRENCH  PULL BOX, 725.08, 18"  PULL BOX, 725.08, 24"  GROUND ROD  VEHICULAR SIGNAL HEAD, MISC.: ADD BACKPLATE  VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, AS PER PLAN  VEHICULAR SIGNAL HEAD, (LED), 5-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, AS PER PLAN  PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN, AS PER PLAN  COVERING OF VEHICULAR SIGNAL HEAD	34 34	DESIGN AGE  DESIGNER  JJ  REVIEL  ALL 1  PROJECT ID  112  SHEET  8

## 809 PREEMPTION

THIS ITEM OF WORK SHALL CONSIST OF FURNISHING AND INSTALLING PREEMPTION EQUIPMENT IN THE LOCATIONS AND LOCAL CONTROLLERS AS SHOWN IN THE PLANS. THE PREEMPTION SHALL CONFORM TO ODOT SUPPLEMENTAL SPECIFICATION 809 AND SHALL UTILIZE COMMUNICATIONS TO IDENTIFY THE PRESENCE OF AN EMERGENCY PRIORITY VEHICLE IT SHALL CAUSE THE TRAFFIC SIGNAL CONTROLLER TO SELECT A PRE-PROGRAMMED PREEMPTION PLAN THAT WILL DISPLAY AND HOLD THE DESIRED SIGNAL PHASE FOR THE DIRECTION OF THE EMERGENCY VEHICLE.

THE COMMUNICATIONS MEDIUM SHALL EMPLOY EITHER SOUND. LIGHT OR RADIO DETECTION TECHNIQUES TO DETERMINE AND LOG THE PRESENCE OF THE EMERGENCY VEHICLE. THE SYSTEM SHALL DETECT THE PRESENCE OF THE VEHICLE THROUGH AN EMITTING DEVICE LOCATED ON THE EMERGENCY VEHICLE. THE SYSTEM SHALL ACTIVATE THE PREEMPTION SEQUENCE BY APPLYING A SIGNAL TO ONE OF THE CONTROLLER'S PREEMPT DISCRETE INPUTS. THE SYSTEM SHALL BE COMPLETELY COMPATIBLE WITH THE CONTROLLER.

THE EQUIPMENT SHALL BE SHELF OR RACK MOUNTED AND EASILY REMOVABLE AND REPLACEABLE WITHIN THE CABINET. SUPPLY EQUIPMENT COMPLETELY WIRED IN THE CONTROLLER CABINET AND TESTED. THE SYSTEM SHALL BE CAPABLE OF PREEMPTING AND RECEIVING PRIORITY FOR EACH APPROACH TO THE INTERSECTION. IT SHALL BE POSSIBLE TO DETECT THE EMERGENCY VEHICLE AT LEAST 2000 FEET FROM THE INTERSECTION IN AN 80dB-A NOISE ENVIRONMENT.

ALL PREEMPTION PLANS SHOULD BE PROGRAMMED TO PREVENT THE YELLOW TRAP, UNLESS AS DIRECTED BY THE DISTRICT TRAFFIC ENGINEER, YELLOW TRAP PREVENT WILL FORCE THE TRANSITION THROUGH YELLOW CHANGE AND RED CLEARANCE FOR RESOLUTION OF YELLOW TRAP IF ANY PHASE OPPOSING THE PREEMPTION CLEARANCE PHASE(S) IS ACTIVE AND DISPLAYING A GREEN OR FLASHING YELLOW ARROW INDICATION WHEN THE PREEMPTION PLAN IS ACTIVATED AND THE PREEMPTION CLEARANCE PHASE(S) ARE GREEN.

SUPPLY EACH INTERSECTION SHOWN IN THE PLANS WITH THE FOLLOWING COMPONENTS, EACH BID SEPARATELY:

- 1. PREEMPT RECEIVING UNIT.
- 2. PREEMPT DETECTOR CABLE.
- 3. PREEMPT PHASE SELECTOR ASSEMBLY AND INTERFACE WIRING PANEL.

IF A LIGHT-ACTIVATED SYSTEM IS SPECIFIED. THE CONTRACTOR SHALL INVENTORY THE CITY'S EXISTING EMITTERS TO DETER-MINE COMPATIBILITY WITH THE PROPOSED SYSTEM. IF EXISTING EMITTERS ARE FOUND TO BE NOT COMPATIBLE, THEN THE CITY SHALL BE SUPPLIED (AT COSTS INCIDENTAL TO THE SYSTEM) WITH THE EMITTERS, TRANSMITTERS, SWITCHES, WIRING AND ALL REQUIRED VEHICLE EQUIPMENT FOR THE FOLLOWING EMERGENCY VEHICLES. THE CITY SHALL BE RESPONSIBLE FOR INSTALLING VEHICLE EQUIPMENT.

IF A RADIO-ACTIVATED SYSTEM IS SPECIFIED, THE CONTRACTOR SHALL SUPPLY THE ABOVE EMERGENCY VEHICLES WITH EMITTERS AT COST INCIDENTAL TO THE SYSTEM.

IF A SOUND-ACTIVATED SYSTEM IS SPECIFIED, THE CONTRACTOR SHALL INVENTORY THE ABOVE EMERGENCY VEHICLES TO DETER-MINE COMPATIBILITY OF THE SIRENS WITH THE SYSTEM FACH VEHICLE THAT IS DETERMINED TO BE NOT COMPATIBLE SHALL BE SUPPLIED WITH NEW SIRENS AT COST INCIDENTAL TO THE SYSTEM.

## 809 PREEMPTION (CONT'D)

IF A LIGHT. RADIO. OR SOUND ACTIVATED SYSTEM IS NOT SPECIFIED, THEN THE CONTRACTOR SHALL SUPPLY A RADIO ACTIVATED SYSTEM.

THE CITY SHALL BE SUPPLIED WITH SOFTWARE REQUIRED TO CALIBRATE LOG AND OPERATE THE SYSTEM TWO (2) OPERATING AND INSTRUCTION MANUALS SHALL BE SUPPLIED WITH THE

THE CONTRACTOR SHALL THOROUGHLY TEST THE INSTALLED SYSTEM, AS A MINIMUM, THE CONTRACTOR SHALL VERIFY THAT ALL CONNECTIONS ARE PROPERLY MADE TO THE CON-TROLLER CABINETS. THE CONTRACTOR SHALL CHECK THAT THE RANGE SETTING IS PROPER FOR EACH INTERSECTION. THE CONTRACTOR SHALL DETERMINE THAT ALL PHASE SELECTORS ARE SELECTING THE PROPER PHASE AND TIMING ACCURATELY. THE CONTRACTOR SHALL VERIEV THAT ALL VEHICLE EMITTERS ARE BEING PROPERLY DETECTED.

IF THE PROPOSED PREEMPT SYSTEM IS NOT COMPATIBLE WITH THE EXISTING SYSTEM, THE CONTRACTOR SHALL PROVIDE TRAINING FOR UP TO FIFTEEN (15) PERSONS IN THE OPERATION OF THE SYSTEM. IT SHALL BE PROVIDED WITHIN 48 HOURS OF THE INSTALLATION OF THE SYSTEM. IT SHALL CONSIST OF HANDS-ON INSTRUCTION FOR A MINIMUM OF SIXTEEN (16) HOURS. THE CONTRACTOR SHALL PROVIDE TRAINING FOR UP TO FOUR (4) PERSONS IN THE INSTALLATION AND MAINTENANCE OF THE SYSTEM. IT SHALL CONSIST OF A MINIMUM OF EIGHT (8) HOURS OF INSTRUCTION. TRAINING SHALL BE SUPPLIED WITHIN SEVEN (7) DAYS OF THE INSTALLATION OF THE SYSTEM. ALL TRAINING SHALL BE HELD IN A CITY SUPPLIED LOCATION. TRAINING SHALL BE CONDUCTED BY SOMEONE WHO HAS PERFORMED THIS WITHIN THE LAST YEAR AND DOES IT ON A REGULAR BASIS. THE COST OF TRAINING, INCLUDING COURSE MATERIAL, TRAVEL SUBSISTENCE AND RELATED COSTS, SHALL BE ENTIRELY BORNE BY THE CONTRACTOR AND SHALL BE INCIDENTAL TO THE PREEMPTION EQUIPMENT.

PAYMENT FOR ITEM 809 PREEMPTION SHALL BE MADE AT THE CONTRACT UNIT PRICE FOR EACH PREEMPTION IN PLACE AND FULLY OPERATIONAL AS SHOWN IN THE PLANS, EXCEPT FOR THOSE ITEMS BID SEPARATELY.

## 809 PREEMPTION RECEIVING UNIT

RECEIVING UNITS SHALL CONSIST OF A LIGHTWEIGHT, WEATHER-PROOF AND DIRECTIONAL ASSEMBLY, EACH RECEIVING UNIT SHALL BE 360 DEGREE ADJUSTABLE. THE RECEIVING UNIT SHALL BE CAPABLE OF SENDING THE PROPER ELECTRICAL SIGNAL TO THE TRAFFIC SIGNAL CONTROLLER VIA THE PREEMPTION DETECTOR CABLE. RECEIVING UNITS SHALL BE SUPPLIED WITH MAST ARM MOUNTING HARDWARE AS SHOWN IN THE PLANS.

FURNISH PREEMPTION RECEIVING UNITS WITH 60-MONTH WARRANTIES OR FOR THE MANUFACTURER'S STANDARD WARRANTY WHICHEVER IS GREATER. ENSURE THAT THE WARRANTY PERIOD BEGINS ON THE DATE OF SHIPMENT TO THE PROJECT ENSURE THAT EACH UNIT HAS A PERMANENT LABEL OR STAMP INDICATING THE DATE OF SHIPMENT.

PAYMENT FOR ITEM 809 PREEMPTION RECEIVING UNIT SHALL BE AT THE CONTRACT UNIT FOR EACH RECEIVING UNIT IN PLACE. COMPLETELY INSTALLED AT THE LOCATION SHOWN IN THE PLANS. WIRED, TESTED AND ACCEPTED.

## 809 PREEMPTION DETECTOR CABLE

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING PREEMPTION DETECTOR HOME RUN CABLE IN THE LOCATIONS SHOWN IN THE PLANS. IT SHALL CONNECT THE PREEMPT RECEIVING UNITS TO THE PHASE SELECTORS IN THE LOCAL CONTROLLER CABINET.

PREEMPTION DETECTOR CABLE SHALL CONFORM TO ODOT SPECIFICATION 632. ONLY ONE EXTERNAL SPLICE SHALL BE PERMITTED BETWEEN PREEMPTION RECEIVER UNIT AND CONTROLLER CABINET. THIS SPLICE SHALL MEET THE REQUIREMENTS OF C&MS 632.23 USING A WATERPROOF EPOXY SPLICE KIT. THE CABLE SHALL BE APPROVED FOR BOTH OVERHEAD AND UNDERGROUND USE. THE JACKET SHALL WITHSTAND EXPOSURE TO SUNLIGHT AND ATMOSPHERIC TEMPERATURES AND STRESSES REASONABLY EXPECTED IN NORMAL INSTALLATIONS.

PAYMENT FOR ITEM 809 PREEMPTION DETECTOR CABLE SHALL BE MADE AT THE CONTRACT UNIT PRICE PER FOOT FOR THE CABLE FURNISHED, IN PLACE, ALL CONNECTIONS MADE AND WIRING COMPLETED, TESTED AND ACCEPTED.

## 809 PREEMPT PHASE SELECTOR

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING PREEMPT PHASE SELECTORS INCLUDING WIRING INTERFACE PANELS IN THE LOCAL CONTROLLER CABINET AND ALL OTHER ACCESSORIES THAT ARE NECESSARY TO MAKE THE PREEMPT PHASE SELECTORS COMPLETELY FUNCTIONAL AND OPERATIONAL AS SHOWN IN THE PLANS. THIS ITEM SHALL INCLUDE THE EXTRA CABINET SPACE NECESSARY TO BE LOCATED IN THE LOCAL CONTROLLER CABINETS WHERE INDICATED IN THE PLANS.

THE PHASE SELECTORS SHALL CONSIST OF A MODULE OR MODULES THAT WILL PROVIDE THE NECESSARY INPUTS TO THE CONTROLLER. PHASE SELECTORS SHALL BE SUPPLIED WITH SUFFICIENT QUANTITIES OF CHANNELS TO PROVIDE PREEMPTION FOR ALL APPROACHES TO THE INTERSECTION SEPARATELY. POWER SHALL BE OBTAINED FROM THE PHASE SELECTOR OR PHASE SELECTOR POWER SUPPLY AND NOT FROM THE LOCAL CONTROLLER TIMER.

THE PHASE SELECTORS SHALL HAVE FRONT PANEL INDICATORS FOR ACTIVE PREEMPT CHANNEL STATUS. IT SHALL HAVE TEST SWITCHES TO ACTIVATE ALL PREEMPT CHANNELS.

FURNISH PREEMPT PHASE SELECTORS WITH 60-MONTH WARRANTIES OR FOR THE MANUFACTURER'S STANDARD WARRANTY WHICHEVER IS GREATER. ENSURE THAT THE WARRANTY PERIOD BEGINS ON THE DATE OF SHIPMENT TO THE PROJECT. ENSURE THAT EACH UNIT HAS A PERMANENT LABEL OR STAMP INDICATING THE DATE OF SHIPMENT.

PAYMENT FOR ITEM 809 PREEMPT PHASE SELECTOR SHALL BE MADE AT THE CONTRACT UNIT PRICE FOR EACH PHASE SELECTOR IN PLACE, COMPLETELY INSTALLED IN THE LOCAL CONTROLLER SHOWN IN THE PLANS, WIRED, TESTED AND ACCEPTED

## 809 PREEMPT RECEIVING UNIT, AS PER PLAN

THE CONTRACTOR SHALL REMOVE AND REERECT THE EXISTING PREEMPTION RECEIVING UNIT TO THE NEW LOCATION SPECIFIED IN THE PLANS. THE CONTRACTOR SHALL ALSO RELOCATE ALL ASSOCIATED EQUIPMENT FOR FULL FUNCTIONALITY AFTER RELOCATION. IF THE EXISTING PREEMPTION DETECTOR CABLE IS IN WORKING CONDITION AND LONG ENOUGH TO BE REUSED IT MAY. IF NOT, THE CONTRACTOR SHALL SUPPLY AND INSTALL NEW PREEMPTION DETECTOR CABLE.

PAYMENT WILL BE AT THE CONTRACT UNIT PRICE PER EACH, RELOCATED, ALL CONNECTIONS MADE AND WIRING COMPLETED, TESTED AND ACCEPTED AND SHALL INCLUDE THE PREEMPTION DETECTOR CABLE WHEN NECESSARY.



JZM

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SR 32 EB

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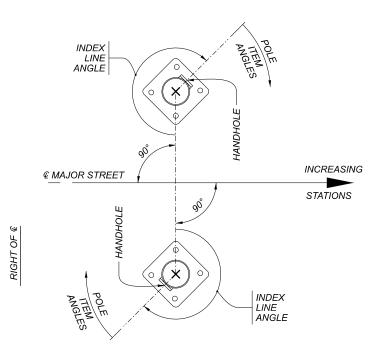
HARDING

# JAC-93 / CHILLICOTHE ST / MORTON ST TRAFFIC SIGNAL DETAILS

# PLAN DETAILS FOR STRAIN POLES

FOLE FOUD FOUD FOUD FOUD STATI NDEX LII INDEX LII SONE RAL DESTRIAL		ANGLES (DEG.) FROM INDEX LINE					
SPA STOP BA ST	SHEET	PEDESTRIAN PUSHBUTTON	DDACKET ADMA	BRACKET ARM			
79 STA. 90+25.8, 17.5' LT SP-1 10 28' 647.6 26' 180° 180° 96° 96	79	96°		-			
79 STA. 90+19.4, 39.1' RT SP-2 10 36' 647.4 26' 216° 150° 239° 23	79	39°	15	150°			

# PLAN VIEW FOR SPANWIRE (BOX) DETAIL

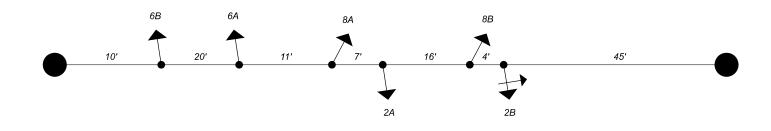


NOTES:

JAC-93-14.29

- ALL ANGLES ARE MEASURED CLOCKWISE.
- THE INDEX LINE GOES THROUGH THE CENTER OF THE HANDHOLE.

POLE DIAGRAM



# NOTES:

- 17' MIN TO 19' MAX CLEARANCE PER TC-85.22
- TETHERED PER TC-85.21
- TOP OF SIGNAL SUPPORT AND PEDESTAL FOUNDATIONS SHALL BE LEVEL WITH THE SIDEWALK ELEVATION WHERE ADA LANDINGS ARE ADJACENT; ELSEWHERE, FOUNDATIONS SHALL BE 2" (`1") ABOVE GRADE PER TC-21.21



JZM EMW 11-22-21

112327

SHEET TOTAL 85