TRAFFIC SIGNAL QUANTITIES

ITEM	UNIT	QUAN.
PAD MOUNTED CONTROLLER & CABINET	EACH	
TRAFFIC SIGNAL HEAD (see CHART A)		
MAST ARM BRACKET 3-SECTION HEAD	EACH	
MAST ARM BRACKET 4-SECTION HEAD	EACH	
VERTICAL BRACKET	EACH	
BACKPLATE 3-SECTION	EACH	
BACKPLATE 4-SECTION	EACH	
RED LED KIT	EACH	
YELLOW LED KIT	EACH	
GREEN LED KIT	EACH	
RED LED ARROW KIT	EACH	
YELLOW LED ARROW KIT	EACH	
GREEN LED ARROW KIT	EACH	
BI-MODAL LED GREEN/YELLOW ARROW KIT	EACH	
COUNTDOWN SIGN	EACH	
ORANGE/WHITE "HAND/MAN" COUNTDOWN LED KIT	EACH	
ORANGE LED KIT (DON'T WALK HAND SYMBOL)	EACH	
WHITE LED KIT (WALK SYMBOL)	EACH	
TRAFFIC SIGNAL POLE STEEL (see CHART B)	EACH	
TRAFFIC SIGNAL PEDESTAL ALUMINUM 10'	EACH	
TRAFFIC SIGNAL PEDESTAL ALUMINUM 14'	EACH	
TRAFFIC SIGNAL PEDESTAL ALUMINUM 15'	EACH	
CONCRETE CONTROLLER PAD	EACH	
CONCRETE POLE FOOTING 8'	EACH	
CONCRETE POLE FOOTING 10'	EACH	
CONCRETE POLE FOOTING 12'	EACH	
PEDESTAL FOOTING	EACH	
GROUND ROD & CLAMP	EACH	
CONDUIT ELBOW 90° 1"	EACH	
CONDUIT ELBOW 90° 1.5"	EACH	
CONDUIT ELBOW 90° 2"	EACH	
CONDUIT ELBOW 90° 3"	EACH	
CONDUIT ELBOW 90° 4"	EACH	
CONDUIT 1"	LN. FT.	
CONDUIT 1.5"	LN. FT.	
CONDUIT 2"	LN. FT.	
CONDUIT 3"	LN. FT.	
CONDUIT 4"	LN. FT.	
SERVICE BOX	EACH	
JUNCTION BOX TYPE I	EACH	
JUNCTION BOX TYPE II	EACH	
JUNCTION BOX TYPE III	EACH	
MULTI-CONDUCTOR CABLE NO. 14 AWG 2c	LN. FT.	
MULTI-CONDUCTOR CABLE NO. 14 AWG 5c	LN. FT.	
MULTI-CONDUCTOR CABLE NO. 14 AWG 7c	LN. FT.	
MULTI-CONDUCTOR CABLE NO. 14 AWG 12c	LN. FT.	
DETECTOR LOOP WIRE NO. 14 1c	LN. FT.	
SHIELDED DETECTOR LEAD-IN NO. 18 AWG 4c	LN. FT.	
AUDIBLE PEDESTRIAN SIGNAL SYSTEM	EACH	
PEDESTRIAN PUSH BUTTON-BULL DOG TYPE	EACH	
OPTICOM DETECTOR MODEL 721	EACH	
OPTICOM DETECTOR MODEL 722	EACH	
OPTICOM PHASE SELECTOR MODEL 764	EACH	
OPTICOM DETECTOR CABLE MODEL 138	LN. FT.	
SERVICE ENCLOSURE WITHOUT PHOTOCELL	EACH	
SERVICE ENCLOSURE WITH PHOTOCELL	EACH	
SERVICE WIRE NO. 6 AWG 1c	LN. FT.	
SERVICE WIRE NO. 4 AWG 1c	LN. FT.	
LUMINAIRE & LAMP (LED)	EACH	
POLE & BRACKET CABLE NO. 12 AWG	LN. FT.	
LIGHTING CABLE NO. 3-1C#4 AWG	LN. FT.	
CONNECTOR KIT	EACH	
MULTI-TAP CONNECTOR	EACH	
SIGN R10-3b PEDESTRIAN PUSHBUTTON SIGN	EACH	
SIGN R10-10 "LEFT TURN SIGNAL"	EACH	
SIGN R10-12 "LEFT TURN YIELD ON GREEN "	EACH	
LED ILLUMINATED OVERHEAD STREET NAME SIGN	EACH	
ALUMINUM OVERHEAD STREET NAME SIGN	EACH	
CONNECTOR KIT - FUSED	EACH	
CONNECTOR KIT - UNFUSED	EACH	

TRAFFIC SIGNAL QUANTITIES (CONT.)

ITEM	MODEL NO.	UNIT	QUAN.
CONTINUOUS TRACKING ADVANCE DETECTOR	WAVETRONIX SMART SENSOR ADVANCE	EACH	
CABINET INTERFACE DEVICE W/ SDLC INTERFACE PANEL	WAVETRONIX CLICK! 650	EACH	
1C#10 GROUND CABLE (FOR ADVANCED DETECTOR)		LN.FT.	
RADAR DETECTOR HOME RUN CABLE		LN. FT.	
PTZ VIDEO CAMERA W/ MOUNTING HARDWARE	AXIS Q6045/-E	EACH	
PTZ VIDEO COMMUNICATION W/ POWER CABLE	RJ45 1P66- RATED W/ CAT CONNECTIONS	LN.FT.	
		EACH	
144ct SINGLE MODE FIBEROPTIC CABLE		LN.FT.	
GROUND ROD FOR FIBER OPTIC SERVICE BOX		EACH	
FIBER OPTIC SERVICE BOX		EACH	
SWITCH	CISO IE3000-8TC	EACH	
TRANSRECEIVER	99440-4	EACH	
GATOR PATCH	GM 20 JO08FRB-XX-X	EACH	
FIBEROPTIC SPLICE ENCLOSURE		EACH	
		EACH	

CONTROLLER AND CABINET DESCRIPTION

ITEM	MODEL NUMBER	QUANTITY
PAD MOUNTED CABINET (LOCAL)	332D	
PAD MOUNTED CABINET (SYSTEM MASTER)	332D	
332D CABINET SHELF	-	
RACK MOUNT CONTROLLER WITH LATEST SOFTWARE VERSION (2K RAM MIN.) (COMPATIBLE WITH OPERATION GREEN LIGHT (OGL))	ATC COBALT-C	
ASC3 FIRMWARE (LATEST VERSION)	-	
WAPITI W4IKS SOFTWARE (LATEST VERSION)	-	
CONFLICT MONITOR	2018	
SWITCH PACK	200	
FLASHER UNIT	204	
FLASH TRANSFER RELAY	430	
TWO CHANNEL DETECTOR (3M/CANOGA)	922	
TWO CHANNEL DC ISOLATOR	242	
SURGE PROTECTING POWER STRIP (RACK-MOUNTED)	-	
AUXILIARY OUTPUT FILE	430	
BATTERY BACKUP SYSTEM - 170 RACKMOUNT BLUE EARTH UPSTEALTH INVERTER/ CONTROLLER WITH (4) 500W NEMA BATTERY PANELS (2 IN CABINET & 2 SPARES)	-	

CHART A SIGNAL SUMMARY

SIGNAL FACE ARRANGEMENT	NO. SECTIONS	MOUNTING TYPE	QUANTITY
		RIGID MAST ARM	
		RIGID MAST ARM	
		RIGID MAST ARM	
		VERTICAL BRACKET	
		VERTICAL BRACKET	
		VERTICAL BRACKET	

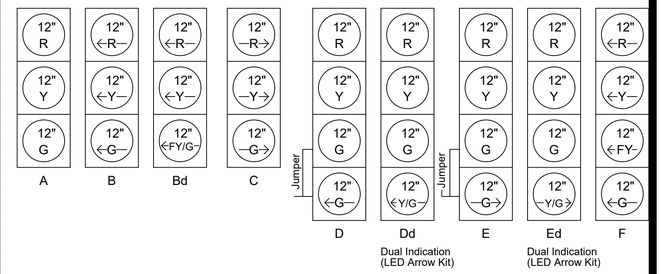
SERVICE BOX SUMMARY

STATION	DIST.-SIDE

JUNCTION BOX SUMMARY

STATION	DIST.-SIDE

Signal Faces



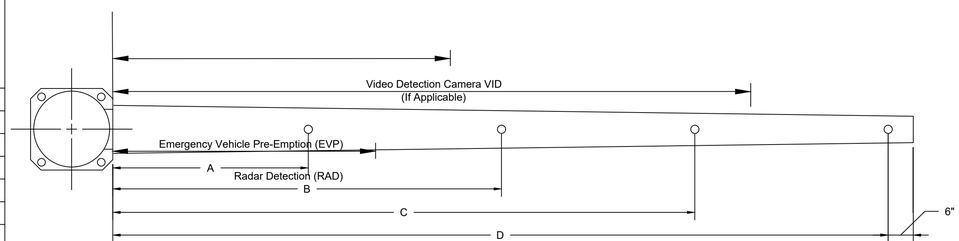
* SUBSCRIPT "d" MEANS DUAL INDICATION YELLOW ARROW/GREEN ARROW SIGNAL

** ALL INDICATIONS SHALL BE LED DISPLAYS.

SIGNAL FACES **

CHART B TRAFFIC SIGNAL POLES

POLE NO.	MAST ARM LENGTH	LUM. TYPE	LUMINAIRE ARM				NO. OF SIGNALS ON ARM	SIGNAL SPACING (SEE SIGNAL HEAD SPACING DETAIL)						
			ARM 1		ARM 2									
			STYLE	SPAN	STYLE	SPAN		A	B	C	D	EVP	RAD	VID



SIGNAL HEAD SPACING DETAIL

NOTE:

1. THIS LIST OF QUANTITIES IS NOT A GUARANTEE OF A COMPLETE LISTING OF ALL MATERIALS NEEDED TO COMPLETE THE LUMP SUM TRAFFIC SIGNAL INSTALLATION AND IS PROVIDED SOLELY FOR THE CONTRACTOR'S CONVENIENCE. THE CONTRACTOR SHOULD VERIFY QUANTITIES FOR BIDDING PURPOSES.
2. MOUNTING HARDWARE SHALL BE SIZED TO ENSURE PUSH BUTTONS ARE MOUNTED WITHIN 10" REACH OF ADJACENT SIDEWALK CONSTRUCTION.
3. MAST ARMS ARE SIZED WITH AN EXTRA TWO FEET BEYOND FAR SIGNAL TO ACCOMMODATE VARYING FIELD CONDITIONS. DEPENDING UPON THE FINAL LOCATIONS OF THE SIGNAL POLES, A SHORT SECTION OF THE MAST ARM MAY NEED TO BE CUT OFF, AS DIRECTED BY THE ENGINEER.

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REVISED DATE:	08/17
DETAILED:	BKC
APPROVED:	---

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SIGNAL SUMMARY OF QUANTITIES

SHEET D-801