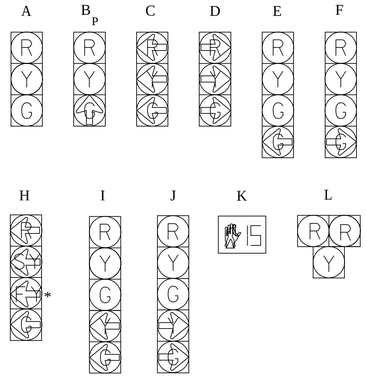
CHART A SIGNAL SUMMARY

SIGNAL FACE ARRANGEMENT	NO. SECTIONS (PER FACE)	SIGNAL MOUNTING TYPE	QUANTITY
A	3	MAST ARM W/BACKPLATE	8
I	5	MAST ARM W/BACKPLATE	4
		MAST ARM W/BACKPLATE	
K	1	SIDE-OF-POLE	8
		SIDE-OF-POLE	
		SIDE-OF-POLE	



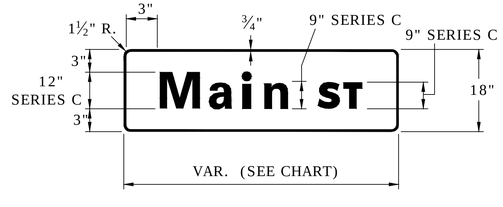
NOTES:
1) * SHALL NOT BE DISPLAYED WHEN OPERATING IN THE PROTECTED ONLY MODE.
2) ALL LENSES ARE L.E.D. UNLESS OTHERWISE NOTED.
3) SUBSCRIPT "P" INDICATES PROGRAMMED SIGNALS.
4) THE TRAFFIC SIGNAL SYSTEM SHALL BE COMPLETE AND THE CONTRACTOR SHALL FURNISH AND INSTALL ALL EQUIPMENT AND MATERIALS NECESSARY FOR THE SATISFACTORY OPERATION OF ELECTRICAL APPARATUS AND FOR COMPLETE OPERATION OF THE TRAFFIC SIGNAL SYSTEM WHETHER SPECIFICALLY MENTIONED OR NOT.

CHART B TRAFFIC SIGNAL POLES

POLE HEIGHT	SIGNAL ARM LENGTH	SIGNAL ARM MOUNTING HEIGHT	NO. OF SIGNALS ON ARM	SIGNAL SPACING	LUMINAIRE ARM LENGTH	LUMINAIRE MOUNTING HEIGHT	QUANT.
35	46(N), 44(W)	19', 21'	3, 3	23,36,45.5/26.3,34.3,43.3	20'	35	1
35	33.5	19'	3'	10,20.5,33.4	10'	35	1
35	37.5	19'	3'	16.8,27.3,37	13'	35	1
10	-	8'	-	-	-	-	1
10	-	8'	-	-	-	-	1
10	-	8'	-	-	-	-	1
10	-	8',8'	-	-	-	-	1

CHART C OVERHEAD STREET NAME SIGNS

SIGN	LEGEND	LENGTH	QUANTITY
1	Central Ave 600 W	110"	2
2	Nims 500 N	29.5"	2



BILL OF MATERIALS

ITEM	QUANT.	UNIT	NOTE
CONTROLLER UNIT	1	EACH	CITY PROVIDED - CONTRACTOR INSTALLED
MALFUNCTION MANAGEMENT UNIT	1	EACH	CITY PROVIDED - CONTRACTOR INSTALLED
SURGE PROTECTOR	1	EACH	
LOAD SWITCH	12	EACH	
FLASHER	2	EACH	
FLASH TRANSFER RELAY	4	EACH	
DETECTOR, 2-CHANNEL	-	EACH	
DETECTOR, 4-CHANNEL	-	EACH	
POLE MOUNTED CABINET	-	EACH	
PAD MOUNTED CABINET	1	EACH	
BATTERY BACKUP SYSTEM (BBS/UPS)	1	EACH	
RADAR/VIDEO DETECTION CAMERA	4	EACH	RADAR/VIDEO DETECTION SYSTEM (L.S.)
TRAFFIC SIGNAL HEAD	CHART A	EACH	
SIGNAL HEAD MOUNTING BRACKET	CHART A	EACH	
BACKPLATE WITH REFLECTIVE BORDER	CHART A	EACH	
VEHICLE TRAFFIC SIGNAL LED MODULES	40	EACH	
PEDESTRIAN TRAFFIC SIGNAL LED MODULES	8	EACH	
PEDESTRIAN PUSHBUTTON & SIGN	8	EACH	
TRAFFIC SIGNAL POLE	CHART B	EACH	
TRAFFIC SIGNAL PEDESTAL ALUMINUM	CHART B	EACH	
TERMINAL BLOCK	7	EACH	
JUNCTION BOX	-	EACH	
SERVICE BOX	7	EACH	
LUMINAIRE ARM	3	EACH	
LUMINAIRE LED LAMP (250) WATT	3	EACH	WESTAR PROVIDED AND INSTALLED
PHOTOCELL	3	EACH	WESTAR PROVIDED AND INSTALLED
UNFUSED STREET LIGHT CONNECTOR KIT	-	EACH	
FUSED STREET LIGHT CONNECTOR KIT	3	EACH	
OVERHEAD STREET NAME SIGN	CHART C	EACH	
R10-10 SIGN (30" X 36")	-	EACH	
KR10-12 SIGN (30" X 36")	4	EACH	
BLANK OUT SIGN	-	EACH	
ENTRANCE HEAD	-	EACH	
SERVICE ENCLOSURE, 50 AMP.	1	EACH	
CIRCUIT BREAKER, TRAFFIC SIGNAL, 20 AMP.	1	EACH	
CIRCUIT BREAKER, LUMINAIRE, 15 AMP.	1	EACH	
GROUND ROD & CLAMP	7	EACH	
SERVICE WIRE NO. 6 AWG 1/C	1000	LIN FT	
LIGHTING DISTRIBUTION WIRE NO. 8 AWG 1/C	1502	LIN FT	
POLE & BRACKET WIRE NO. 10 AWG 1/C	-	LIN FT	
GROUND WIRE NO. 6 AWG 1/C	790	LIN FT	
MULTI-CONDUCTOR CABLE NO. 14 AWG 5/C	2095	LIN FT	
MULTI-CONDUCTOR CABLE NO. 14 AWG 7 /C	661	LIN FT	
VIDEO AND VIDEO POWER	661	LIN FT	
CONDUIT, 1" & FITTINGS	-	LIN FT	
CONDUIT, 1-1/2" & FITTINGS	-	LIN FT	
CONDUIT, 2" & FITTINGS	354	LIN FT	
CONDUIT, 3" & FITTINGS	354	LIN FT	
CONDUIT, 4" & FITTINGS	10	LIN FT	

1. CONDUIT SHALL BE BORED UNDER EXISTING PAVEMENT

2.THE TRAFFIC CONTROL SYSTEM SHALL BE FOR THE COMPLETE INSTALLATION OF ALL CONTROLLERS, CAMERAS, WIRE, CONNECTIONS, ETC. AS REQUIRED FOR THE SATISFACTORY OPERATION OF THE TRAFFIC SIGNAL SYSTEM. THE SYSTEM INSTALLED SHALL MEET ALL CITY, STATE AND FEDERAL GUIDELINES.

3. THE CONFLICT MONITORS SUPPLIED SHALL BE 2010 ECL-IP CONFLICT MONITORS AND SHALL MEET THE REQUIREMENTS OUTLINED IN CALTRANS TEES 2002 (OR LATEST VERSION).

4. PEDESTRIAN SIGNALS SHALL BE COUNTDOWN AND BE GE MODEL PS7-CFFI-26A OR APPROVED EQUAL.

5. ALL POLES AND EQUIPMENT SHALL BE PAINTED BLACK PER CITY SPECIFICATIONS.
PUSH BUTTONS SHALL BE POLARA 4-WIRE NAVIGATOR APS PED SIGNAL W/SIGN. UNIT SHALL INCLUDE ALL MOUNTING ASSEMBLIES AND HARDWARE.

6. ALL BACKPLATES SHALL BE EQUIPPED WITH A 2" RETRO-REFLECTIVE YELLOW BORDER MEETING ASTM 4-4956 TYPE IX SHEETING SPECIFICATIONS.

7. TWO COMPLETE SPARE VIDEO DETECTION CAMERAS AND PROCESSORS SHALL BE PROVIDED IN ADDITION TO THE UNITS LISTED ON THE PLANS.

BID ITEM

ITEM	UNIT	QUANTITY
TRAFFIC SIGNAL	1	L.S.
PAVEMENT MARKINGS	1	L.S.

-QUANTITIES FOR INFORMATION ONLY-

REV	DATE	DESCRIPTION	DSN	DWN	CHK
0	6-7-17	BID SET	KDB	KDB	

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CENTRAL AND NIMS SIGNALIZATION
PROJECT NUMBER 472-85280
WICHITA, KANSAS

TRAFFIC SIGNAL QUANTITES

PROJ. NO. F16D0205
DESIGNER KDB | DRAWN BY NMP
CFN 0205DET
SHEET 19 OF 36 | REV 0

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