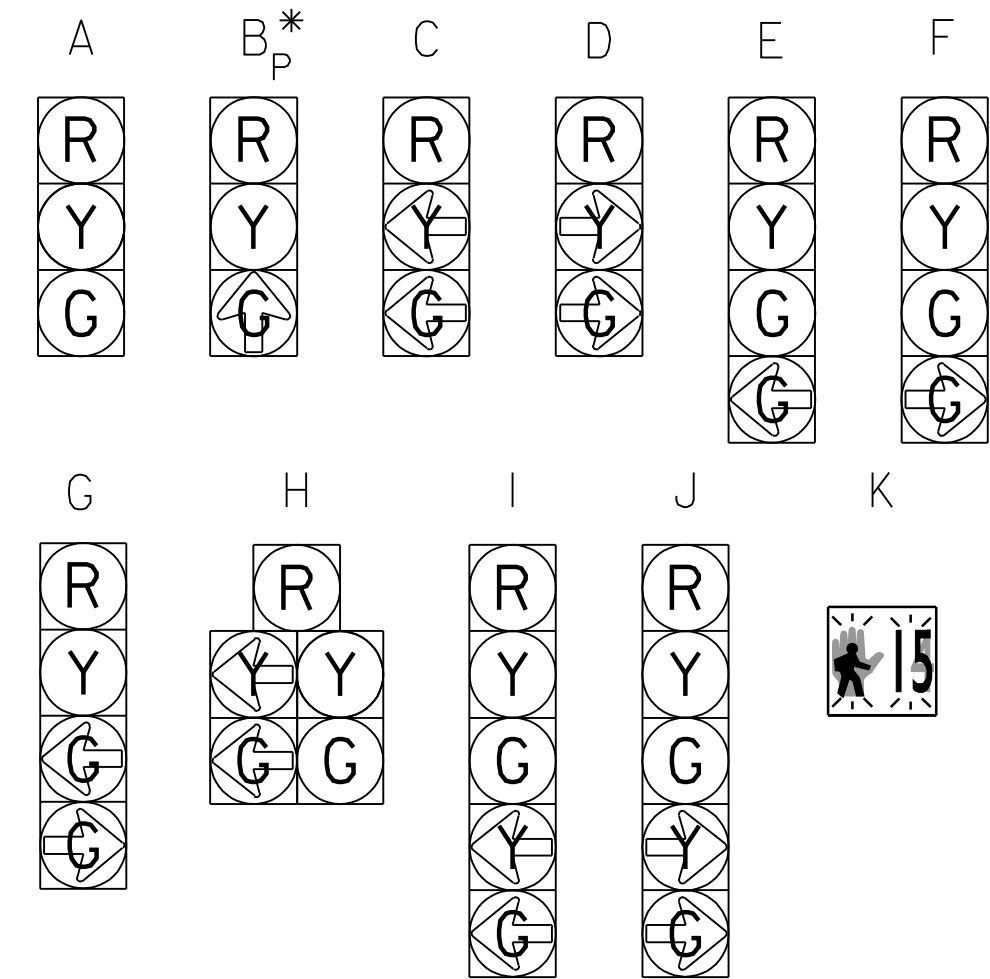


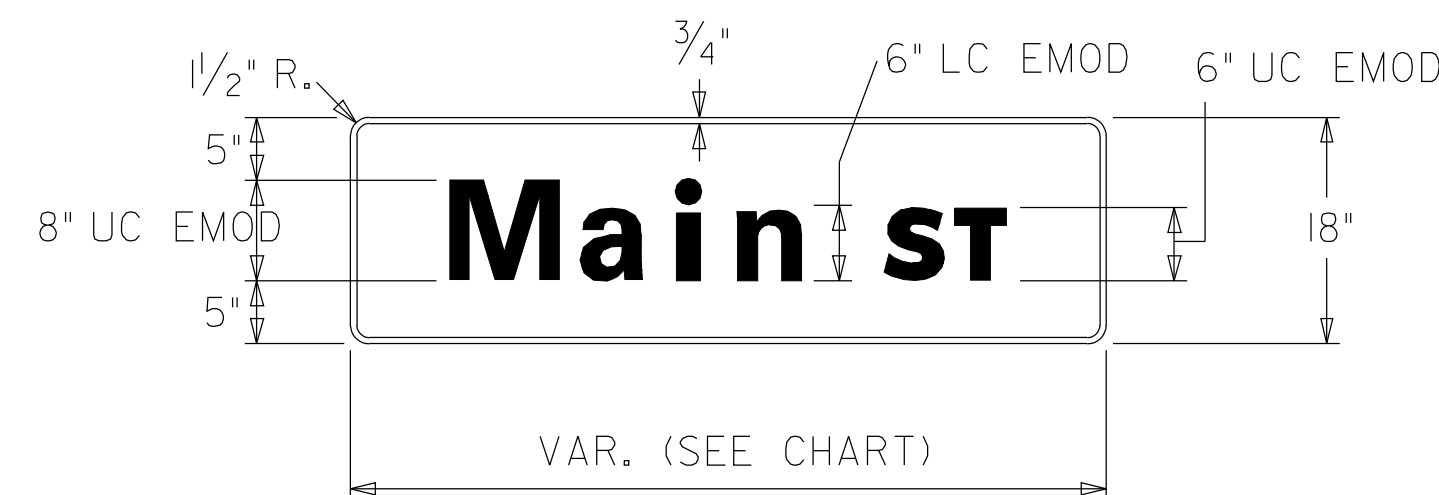
CHART A SIGNAL SUMMARY			
SIGNAL FACE ARRANGEMENT	NO. SECTIONS (PER FACE)	SIGNAL MOUNTING TYPE	QUANTITY
		MAST ARM W/BACKPLATE	
		MAST ARM W/BACKPLATE	
		SIDE-OF-POLE	
		SIDE-OF-POLE	



* SUBSCRIPT "P" INDICATES PROGRAMMED SIGNALS;
 1. ALL LENSES SHALL BE L.E.D.
 2. ALL LENSES SHALL BE 12".

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.

CHART C OVERHEAD STREET NAME SIGNS			
SIGN	LEGEND	LENGTH	QUANTITY



NOTE :
 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.

BILL OF MATERIALS

ITEM	QUANT.	UNIT	NOTE
CONTROLLER UNIT		EACH	
PROGRAM MODULE		EACH	
CONFLICT MONITOR		EACH	
FLASHER		EACH	
LOAD SWITCH		EACH	
FLASH TRANSFER RELAY		EACH	
SURGE PROTECTOR		EACH	
DC ISOLATOR		EACH	
AC ISOLATOR		EACH	
DETECTOR, 2-CHANNEL		EACH	
DETECTOR, 4-CHANNEL		EACH	
ISOLATION MODULE		EACH	
PAD MOUNTED CABINET		EACH	
TRAFFIC SIGNAL HEAD	CHART A	EACH	
SIGNAL HEAD MOUNTING BRACKET	CHART A	EACH	
BACK PLATE	CHART A	EACH	
VEHICLE TRAFFIC SIGNAL LAMP		EACH	
PEDESTRIAN TRAFFIC SIGNAL LAMP		EACH	
L.E.D. LENS	CHART A	EACH	
PEDESTRIAN PUSHBUTTON & SIGN		EACH	
TRAFFIC SIGNAL POLE	CHART B	EACH	
TRAFFIC SIGNAL PEDESTAL ALUMINUM		EACH	
TERMINAL BLOCK		EACH	
JUNCTION BOX		EACH	
SERVICE BOX	5	EACH	
LUMINAIRE		EACH	
LUMINAIRE LAMP 250 WATT		EACH	
PHOTOCELL		EACH	
UNFUSED STREET LIGHT CONNECTOR KIT		EACH	
FUSED STREET LIGHT CONNECTOR KIT		EACH	
OVERHEAD STREET NAME SIGN	CHART C	EACH	
R10-10 SIGN (24" X 30")		EACH	
R10-12 SIGN (24" X 30")		EACH	
BLANK OUT SIGN		EACH	
SPLICE KIT	1	EACH	
SERVICE ENCLOSURE, 100 AMP.		EACH	
CIRCUIT BREAKER, TRAFFIC SIGNAL, 30 AMP.		EACH	
CIRCUIT BREAKER, LUMINAIRE, 20 AMP.		EACH	
WIRELESS VEHICLE DETECTION SYSTEM	1	EACH	
GROUND ROD & CLAMP	5	EACH	
SERVICE WIRE NO. 3 AWG 1/C		LIN FT	
LIGHTING DISTRIBUTION WIRE NO. 8 AWG 1/C		LIN FT	
POLE & BRACKET WIRE NO. 10 AWG 1/C		LIN FT	
GROUND WIRE NO. 6 AWG 1/C	2100	LIN FT	
MULTI-CONDUCTOR CABLE NO. 14 AWG 5/C		LIN FT	
MULTI-CONDUCTOR CABLE NO. 14 AWG 7/C		LIN FT	
MULTI-CONDUCTOR CABLE NO. 14 AWG 9/C		LIN FT	
MULTI-CONDUCTOR CABLE NO. 14 AWG 3/C		LIN FT	
MULTI-CONDUCTOR CABLE NO. 12 AWG 5/C		LIN FT	
COAXIAL CABLE		LIN FT	
3 PAIR NO. 16 AWG INTERCONNECT CABLE	1620	LIN FT	
4 PAIR NO. 16 AWG INTERCONNECT CABLE	480	LIN FT	
CONDUIT, 1" & FITTINGS		LIN FT	
CONDUIT, 1 1/2" & FITTINGS		LIN FT	
CONDUIT, 2" & FITTINGS	1940	LIN FT	
CONDUIT, 3" FITTINGS		LIN FT	
CONDUIT, 4" & FITTINGS		LIN FT	

- QUANTITIES SHOWN ARE FOR INTERCONNECT AND WACO IMPROVEMENTS.
- CONDUIT SHALL BE JACKED UNDER EXISTING PAVEMENT TO REMAIN.
- SENSYS NETWORKS WIRELESS DETECTION SYSTEM SHALL BE USED FOR THE WACO INTERSECTION AND SHALL INCLUDE THE FOLLOWING NEW ITEMS (QUANTITIES):
 CONTACT CLOSURE CARD (QUANTITY 2)
 VEHICLE SENSOR NODE (QUANTITY 8)
 ACCESS POINT ANTENNA (QUANTITY 2)
 REPEATER (QUANTITY 2)
 CAT 5 CABLE (QUANTITY 130')
- THE EXISTING I70 CONTROLLER SHALL BE REPLACED (BY OTHERS) PRIOR TO CONSTRUCTION. THE REPLACED CONTROLLER SHALL BE A TYPE 2070.
- SEE LIGHTING DETAILS (SHEETS 129-134) FOR MORE INFORMATION REGARDING LIGHTING.
- THE TRAFFIC SIGNAL SYSTEM SHALL BE FOR THE COMPLETE INSTALLATION OF ALL CONTROLLERS, CAMARAS, WIRE, CONNECTIONS, ETC. NEEDED FOR THE SATISFACTORY OPERATION OF THE TRAFFIC SIGNAL SYSTEM.

-QUANTITIES FOR INFORMATION ONLY-

KANSAS DEPARTMENT OF TRANSPORTATION

TYPE I70E SYSTEM
 TRAFFIC SIGNAL QUANTITIES SHEET

TE130B

FHWA APPROVAL	04/29/03	APP'D	Linda G. Voss, P.E.
DESIGNED	J.F.F.	DETAILED	J.F.F.
QUANTITIES	TRACED		
DESIGN CK.	G.J.O.	DETAIL CK.	G.J.O.
QUAN. CK.		TRACE CK.	