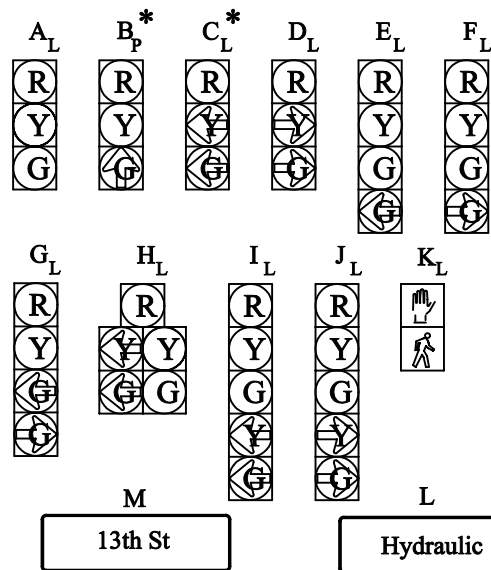


SIGNAL FACE ARRANGEMENT NO.	SECTIONS (PER FACE)	SIGNAL MOUNTING TYPE	QUANTITY
A _L	3	MAST ARM W/BACKPLATE	6
I _L	5	MAST ARM W/BACKPLATE	2
		MAST ARM W/BACKPLATE	
K _L	2	SIDE-OF-POLE	8
A _L	3	SIDE-OF-POLE	4
		SIDE-OF-POLE	

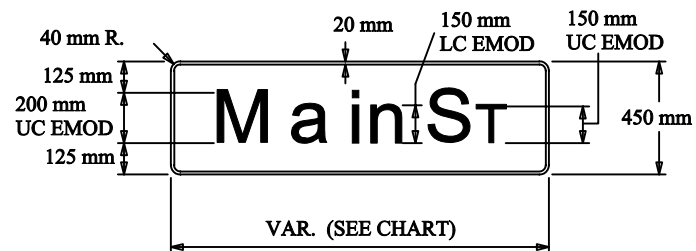


* SUBSCRIPT "P" INDICATES PROGRAMMED SIGNALS;
 SUBSCRIPT "L" INDICATES L.E.D. LENS.

POLE NO.	SIGNAL ARM LENGTH	SIGNAL ARM MOUNTING HEIGHT	NO. OF SIGNALS ON ARM	SIGNAL SPACING (m)	LUMINAIRE ARM LENGTH	LUMINAIRE MOUNTING HEIGHT	QUANT.	POLE HT.
1 *	11	5.7 m**	-	10.9 - 8.5 - 5.1	—	—	—	10.7
2 *	9	5.7 m**	-	9.2	—	—	—	10.7
3 *	11	5.7 m**	-	10.7 - 8.2 - 4.9	—	—	—	10.7
4 *	8	5.7 m**	-	7.9	—	—	—	10.7

* INDICATES JOINT USE POLE ** POLE/MAST ARM CONNECTION SHALL BE ALTERNATIVE FLANGE PLATE DESIGN

SIGN	LEGEND	LENGTH	QUANTITY
M	13th St	2m	2
L	Hydraulic	2m	2



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	UNIT	QUANTITY
POLE MOUNTED CONTROLLER & CABINET	EACH	—
PEDESTAL MOUNTED CONTROLLER & CABINET	EACH	—
PAD MOUNTED CONTROLLER & CABINET	EACH	1
TRAFFIC SIGNAL HEAD (SEE CHART A) W/ MOUNTING HARDWARE	EACH	12
ALL INDICATIONS LED	EACH	12
TRAFFIC SIGNAL POLE (SEE CHART B) STEEL	EACH	4
TRAFFIC SIGNAL POLE (SEE CHART B) ALUMINUM	EACH	—
TRAFFIC SIGNAL PEDESTAL ALUMINUM 15'	EACH	—
CONFLICT MONITOR (ECL OR MS)		
CONCRETE CONTROLLER PAD	EACH	1
CONCRETE FOOTING - PEDESTAL	EACH	—
CONCRETE FOOTING - POLE	EACH	4
CONDUIT ELBOW 90°	EACH	As Req'd.
CONDUIT ELBOW 90° 3"	EACH	As Req'd.
BACK PLATE 5" - 3 SECTION	EACH	6
BACK PLATE 5" - 4 SECTION	EACH	—
BACK PLATE 5" - 5 SECTION	EACH	2
TERMINAL BLOCK	EACH	—
SERVICE BOX	EACH	4
JUNCTION BOX	EACH	4
GROUND ROD & CLAMP	EACH	6
CONDUIT CLAMP	EACH	As Req'd.
TRAFFIC SIGNAL LAMP 135 WATT	EACH	56
TRAFFIC SIGNAL LAMP 60 WATT	EACH	—
CLASS 4 - WOOD POLE	EACH	—
ENTRANCE HEAD	EACH	1
CIRCUIT BREAKER & BOX	EACH	1
GUY WIRE GUARD	EACH	—
GUY WIRE CLAMP	EACH	—
THIMBLE EYE ANCHOR ROD	EACH	—
R10-12	EACH	2
PEDESTRIAN PUSHBUTTON W/SIGN	EACH	8
DETECTOR LOOP WIRE No. 14 A.W.G. 1/C (TYPE THHN)	LIN. m	706
LEAD-IN WIRE No. 8 A.W.G. 1/C (TYPE THNN)	LIN. m	200
MULTI-CONDUCTOR CABLE No. 14 A.W.G. 5/C	LIN. m	105
MULTI-CONDUCTOR CABLE No. 14 A.W.G. 7/C	LIN. m	501
MULTI-CONDUCTOR CABLE No. 14 A.W.G. 2/C	LIN. m	—
SHIELDED DETECTOR LEAD-IN No. 14 A.W.G. 2/C	LIN. m	679
CONDUIT 20 mm	LIN. m	302
CONDUIT 40 mm	LIN. m	31
CONDUIT 50 mm	LIN. m	89
CONDUIT 75 mm	LIN. m	110
STANDARD 1C #6 (GROUND)	LIN. m	132
STANDARD 1C #6 (POWER SUPPLY)	LIN. m	132
TETHER WIRE 1/4" ASTM A475 SIEMENS-MARTIN GRADE MIN.	LIN. m	—
REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT **	L.S.	1
STREET NAME SIGNS - SEE CHART C	EACH	4
LEFT TURN SIGNAL (R10-12) W/MOUNTING HARDWARE	EACH	2
6 PAIR #19 AWG COMMUNICATION CABLE	LIN. m	140

Type 170 Controller System to include:

1. Model 170E controller unit complete with W41KS (Latest Revisions) traffic program on 412B2 system memory module and Model 400 Modem
2. One (1) Model 332 Cabinet complete with accessories & shall include:
 - A. One (1) Model 210ECL or 210MS Conflict accessories & shall include:
 - B. Four (4) Model 430 Transfer Relays.
 - C. Two (2) Model 204 Flashing Units.
 - D. Six (6) Model 200 Switch Packs.
 - E. Three (3) Model 242 DC Isolators.
 - F. One (1) Surge Arrester.
 - G. Eight (8) Model 222 (c-400) 2 Channel Loop Detectors.

-QUANTITIES FOR INFORMATION ONLY-

3				
2				
1				
NO.	DATE		BY	APPD

KANSAS DEPARTMENT OF TRANSPORTATION

TYPE I70E SYSTEM
 TRAFFIC SIGNAL QUANTITIES SHEET

04/28/98

DESIGNED	J.F.F.	Detailed	J.F.F.	APPD	Linda G. Voss, P.E.
DESIGN CK.	D.A.C.	DETAIL CK.	D.A.C.	QUAN. CK.	TRACE CK.