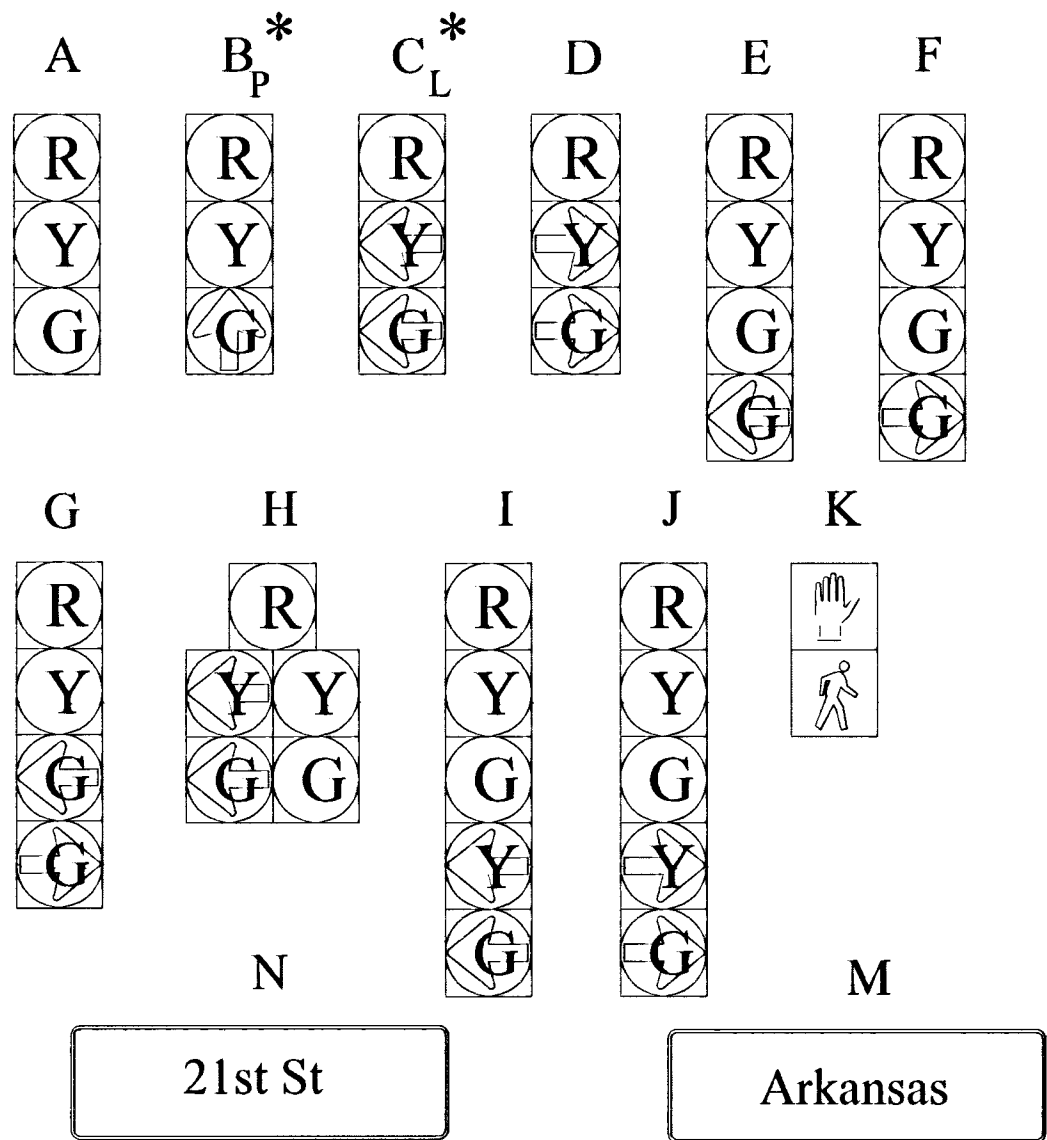


FHWA REGION NO.	STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
7	KANSAS	87 N-0194-01	2001	23	43

CHART A SIGNAL SUMMARY			
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	3
		MAST ARM W/BACKPLATE	
K	2	SIDE-OF-POLE Type II	8
A _L	3	SIDE-OF-POLE Type III	4
		SIDE-OF-POLE	



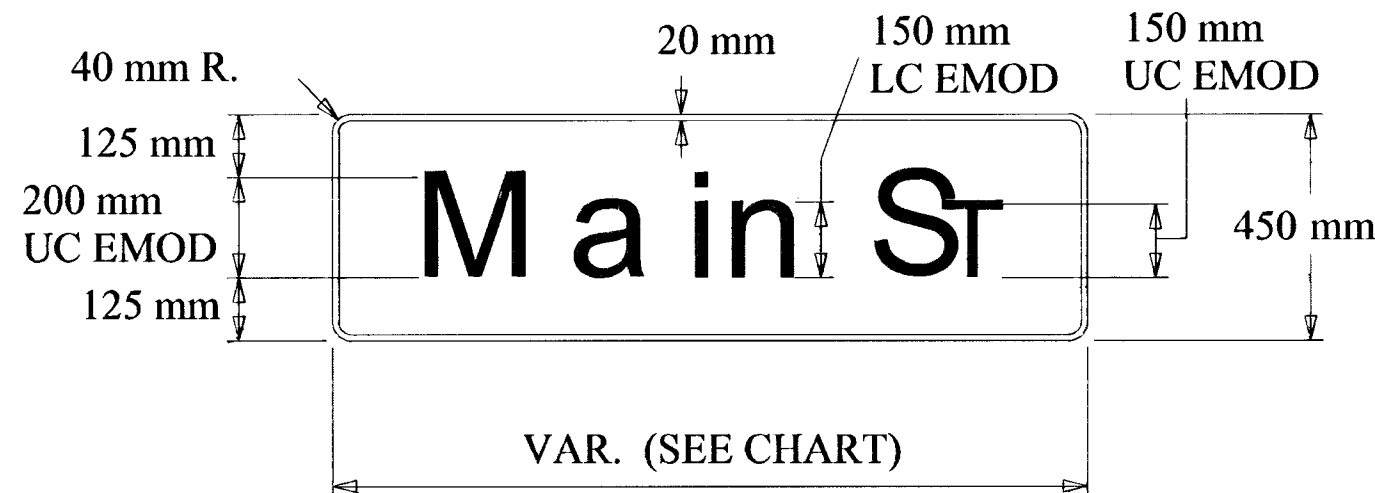
* SUBSCRIPT "P" INDICATES PROGRAMMED SIGNALS;
SUBSCRIPT "L" INDICATES L.E.D. RED LENS.

CHART B TRAFFIC SIGNAL POLES								
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 *	12 m	5.7 m**	3	11.2 - 8.8 - 5.4	—	—	—	10.7
2 *	8 m	5.7 m**	1	7.8	—	—	—	10.7
3 *	12 m	5.7 m**	3	11.4 - 8.9 - 5.6	—	—	—	10.7
4 *	7 m	5.7 m**	2	6.2 - 3.8	—	—	—	10.7

* INDICATES JOINT USE POLE

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

CHART C OVERHEAD STREET NAME SIGNS			
SIGN	LEGEND	LENGTH	QUANTITY
N	21st St	2m	2
M	Arkansas	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	13
TRAFFIC SIGNAL POLE (SEE CHART B) STEEL	EACH	4
TRAFFIC SIGNAL POLE (SEE CHART B) ALUMINUM	EACH	—
TRAFFIC SIGNAL PEDESTAL ALUMINUM 15'	EACH	—
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	10
BACK PLATE 5" — 4 SECTION	EACH	—
BACK PLATE 5" — 5 SECTION	EACH	3
TERMINAL BLOCK	EACH	—
SERVICE BOX	EACH	4
JUNCTION BOX	EACH	6
GROUND ROD & CLAMP	EACH	6
CONDUIT CLAMP	EACH	As Req'd.
TRAFFIC SIGNAL LAMP 135 WATT	EACH	61
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	—
PEDESTRIAN PUSHBUTTON W/SIGN	EACH	8
DETECTOR LOOP WIRE No. 14 A.W.G. 1/C (TYPE THHN)	LIN. m	249
LEAD-IN WIRE No. 6 A.W.G. 1/C (TYPE THNN)	LIN. m	
MULTI-CONDUCTOR CABLE No. 14 A.W.G. 5/C	LIN. m	251
MULTI-CONDUCTOR CABLE No. 14 A.W.G. 7/C	LIN. m	462
MULTI-CONDUCTOR CABLE No. 14 A.W.G. 2/C	LIN. m	185
SHIELDED DETECTOR LEAD-IN No. 14 A.W.G. 2/C	LIN. m	423
CONDUIT 19 mm	LIN. m	197
CONDUIT 40 mm	LIN. m	49
CONDUIT 50 mm	LIN. m	239
CONDUIT 75 mm	LIN. m	129
STANDARD 1C #8 (GROUND)	LIN. m	190
STANDARD 1C #6 (POWER SUPPLY)	LIN. m	405
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	3
6 PAIR #19 AWG COMMUNICATION CABLE	LIN. m	220

-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					
FHWA APPROVAL		05/18/98		APPD	
DESIGNED		J.F.F.		QUANTITIES	
DESIGN CK.		D.A.C.		TRACE CK.	
				Linda G. Voss, P.E.	
				TRACE CK.	