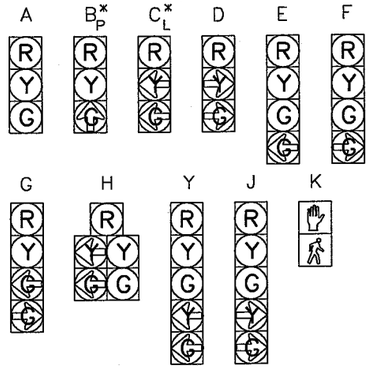
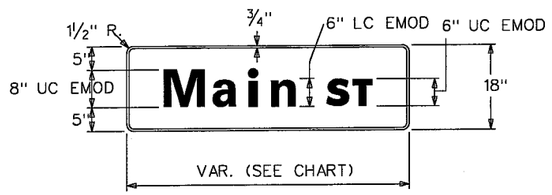
CHART A SIGNAL SUMMARY			
SIGNAL FACE ARRANGEMENT	NO. SECTIONS (PER FACE)	SIGNAL MOUNTING TYPE	QUANTITY
A	3	MAST ARM W/BACKPLATE	6
C	3	MAST ARM W/BACKPLATE	1
Y	5	MAST ARM W/BACKPLATE	1
A	3	SIDE-OF-POLE	
K	2	SIDE-OF-POLE	6
		SIDE-OF-POLE	



* SUBSCRIPT "P" INDICATES PROGRAMMED SIGNALS;
~~SUBSCRIPT "L" INDICATES L.E.D. LENSES.~~
ALL LENSES ARE L.E.D.

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.
20'	44'	19'	3	11'	-	-	1
20'	44'	19'	3	11'	-	-	1
20'	-	19'	2	12'	-	-	1

CHART C OVERHEAD STREET NAME SIGNS			
SIGN	LEGEND	LENGTH	QUANTITY
1	PAWNEE AVENUE	7'6"	1
2	GLENN STREET	7'6"	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	QUANT.	UNIT	SPEC. NO.	NOTE
CONTROLLER UNIT	1	EACH	3.2.3.5	
PROGRAM MODULE	1	EACH	3.2.3.6	
CONFLICT MONITOR	1	EACH	3.2.3.7	
FLASHER	1	EACH	3.2.3.8	
LOAD SWITCH		EACH	3.2.3.9	
FLASH TRANSFER RELAY	2	EACH	3.2.3.10	
SURGE PROTECTOR		EACH	3.2.3.11	
DC ISOLATOR	2	EACH	3.2.3.12	
AC ISOLATOR		EACH	3.2.3.13	
DETECTOR, 2-CHANNEL		EACH	3.2.3.14	
DETECTOR, 4-CHANNEL		EACH	3.2.3.14	
POLE MOUNTED CABINET	-	EACH	3.2.3.4 3.2.3.4.5	
PAD MOUNTED CABINET	1	EACH	3.2.3.4 3.2.3.4.6	
TRAFFIC SIGNAL HEAD	CHART A	EACH	3.2.4	
SIGNAL HEAD MOUNTING BRACKET	CHART A	EACH	3.2.6	
BACK PLATE	CHART A	EACH	3.2.7	
VEHICLE TRAFFIC SIGNAL LAMP	32	EACH	3.2.5	
PEDESTRIAN TRAFFIC SIGNAL LAMP	12	EACH	3.2.5	
L.E.D. LENS	CHART A	EACH	3.2.4.4	
PEDESTRIAN PUSHBUTTON & SIGN	6	EACH	3.2.8, 3.2.9	
TRAFFIC SIGNAL POLE	CHART B	EACH	3.2.10	
TRAFFIC SIGNAL PEDESTAL ALUMINUM	1	EACH	3.2.11	
TERMINAL BLOCK	4	EACH	3.2.12	
JUNCTION BOX	4	EACH	3.2.13, 3.2.14	
SERVICE BOX		EACH	3.2.15	
LUMINAIRE		EACH	3.2.16	
LUMINAIRE LAMP WATT		EACH	3.2.17	
PHOTOCELL		EACH	3.2.18	
UNFUSED STREET LIGHT CONNECTOR KIT		EACH	3.2.19	
FUSED STREET LIGHT CONNECTOR KIT		EACH	3.2.20	
OVERHEAD STREET NAME SIGN	CHART C	EACH	3.2.21	
R10-10 SIGN (24" X 30")		EACH	3.2.22	
R10-12 SIGN (24" X 30")	3	EACH	3.2.22	
BLANK OUT SIGN		EACH	3.2.23	
ENTRANCE HEAD		EACH	3.2.24	
SERVICE ENCLOSURE, 40 AMP.	1	EACH	3.2.25	
CIRCUIT BREAKER, TRAFFIC SIGNAL, 30 AMP.	1	EACH	3.2.26	
CIRCUIT BREAKER, LUMINAIRE, 15 AMP.	-	EACH	3.2.26	
GROUND ROD & CLAMP	5	EACH	3.2.27, 3.2.28	
SERVICE WIRE NO. 6 AWG 1/C	200	LIN FT	3.2.29	
LIGHTING DISTRIBUTION WIRE NO. 8 AWG 1/C		LIN FT	3.2.30	
POLE & BRACKET WIRE NO. 10 AWG 1/C		LIN FT	3.2.31	
GROUND WIRE NO. 6 AWG 1/C *	200	LIN FT	3.2.32	
MULTI-CONDUCTOR CABLE NO. 14 AWG 5/C	1,600	LIN FT	3.2.33	
MULTI-CONDUCTOR CABLE NO. 14 AWG 7/C	295	LIN FT	3.2.33	
MULTI-CONDUCTOR CABLE NO. 14 AWG 3/C	785	LIN FT	3.2.33	
VIDEO CABLE (COAX) *				
SHIELDED DETECTOR LEAD-IN CABLE NO. 14 AWG 2/C	785	LIN FT	3.2.34	
DETECTOR LOOP WIRE NO. 14 AWG 1/C		LIN FT	3.2.35	
LOOP SEALANT	-		3.2.36	
PRE-FORMED LOOP		EACH	3.2.37	
CONDUIT, 1" & FITTINGS		LIN FT	3.2.38	
CONDUIT, 1½" & FITTINGS		LIN FT	3.2.38	
CONDUIT, 2" & FITTINGS	-	LIN FT	3.2.38	
CONDUIT, 3" FITTINGS	590	LIN FT	3.2.38	
CONDUIT, 4" & FITTINGS		LIN FT	3.2.38	

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87N 0372-01	2006	63	106

* ESTIMATED 200' FOR POWER HOOKUP

BID ITEM		
ITEM	UNIT	QUANTITY
TRAFFIC SIGNAL INSTALLATION	L.S.	L.S.

-QUANTITIES FOR INFORMATION ONLY-

NO.	DATE	REVISION	BY	APP'D
3				
2				
1				

KANSAS DEPARTMENT OF TRANSPORTATION

TYPE 170E SYSTEM
TRAFFIC SIGNAL QUANTITIES SHEET
PEDESTRIAN SIGNAL

~~TE130B~~ 03/26/03

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.

Plotted By : ##USERNAME## Thacher Bldg., 4th Floor
Plot File : ##########DGNSPEC##########
Plot Date : #####STIME#####

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