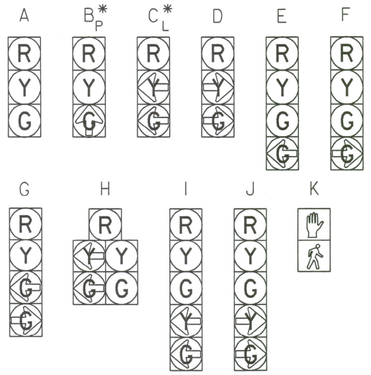
FHWA REGION NO.	STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
7	KANSAS	54-87 K-6657-01	2002	664	1122

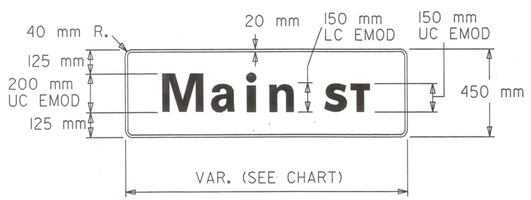
CHART A SIGNAL SUMMARY			
SIGNAL FACE ARRANGEMENT	NO. SECTIONS (PER FACE)	SIGNAL MOUNTING TYPE	QUANTITY
		MAST ARM W/BACKPLATE	
		MAST ARM W/BACKPLATE	
		MAST ARM W/BACKPLATE	
		SIDE-OF-POLE	
		SIDE-OF-POLE	
		SIDE-OF-POLE	



* SUBSCRIPT "P" INDICATES PROGRAMMED SIGNALS

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



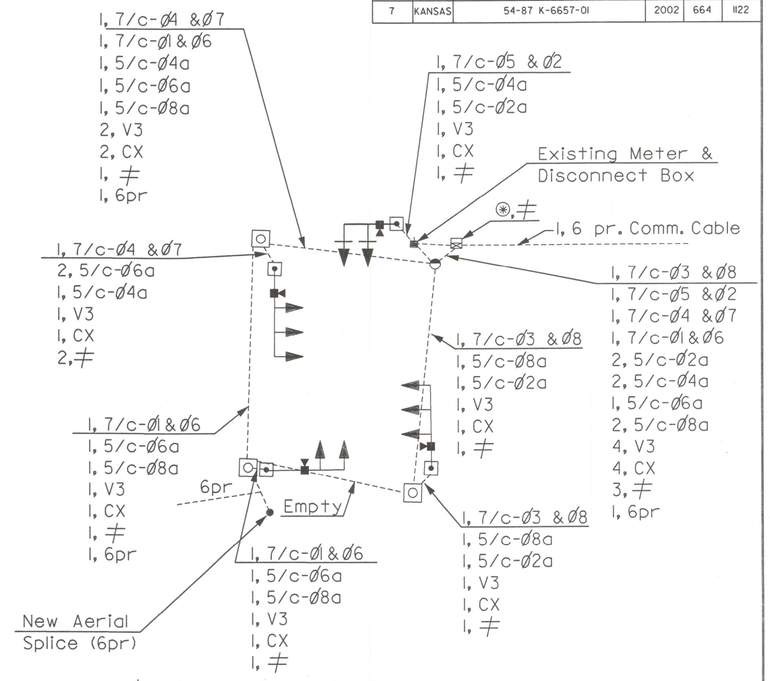
NOTE :

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
PAD MOUNTED CONTROLLER & CABINENT	EACH	**
TRAFFIC SIGNAL HEAD W/MOUNTING HARDWARE	EACH	**
TRAFFIC SIGNAL POLE STEEL (6.1m)	EACH	**
TRAFFIC SIGNAL POLE (JOINT USE) STEEL (10.7m)	EACH	-
CONCRETE CONTROLLER PAD	EACH	1
CONCRETE FOOTING - PEDESTAL	EACH	-
CONCRETE FOOTING - POLE	EACH	1
CONDUIT ELBOW 90° 50mm	EACH	AS REQ'D
CONDUIT ELBOW 90° 75mm	EACH	AS REQ'D
BACK PLATE 175mm 3 SECTION	EACH	**
BACK PLATE 175mm 5 SECTION	EACH	**
TERMINAL BLOCK	EACH	-
SERVICE BOX	EACH	1
JUNCTION BOX (PRE-FAB)	EACH	-
GROUND ROD & CLAMP	EACH	2
TRAFFIC SIGNAL LAMP 135 WATT	EACH	**
RED LED	EACH	-
ENTRANCE HEAD	EACH	**
CIRCUIT BREAKER & BOX 50 AMP.	EACH	**
SURGE ARRESTOR - A.C. SERVICE	EACH	-
SURGE ARRESTOR - DETECTOR	EACH	-
R10-10 SIGN (600mm X 750mm)	EACH	
R10-12 SIGN (600mm X 750mm)	EACH	**
PEDESTRIAN PUSHBUTTON W/SIGN	EACH	**
6 PR. COMMUNICATION CABLE	METER	210
LEAD-IN WIRE NO.6 AWG 1/c	METER	15
MULTI-CONDUCTOR CABLE NO.14 AWG 7/c	METER	300
MULTI-CONDUCTOR CABLE NO.14 AWG 5/c	METER	500
MULTI-CONDUCTOR CABLE NO.14 AWG 3/c	METER	50
MULTI-CONDUCTOR CABLE NO.14 AWG 2/c	METER	10
CONDUIT, 25mm & FITTINGS (RGC)	METER	
CONDUIT, 40mm & FITTINGS (RGC)	METER	
CONDUIT, 50mm & FITTINGS (RGC)	METER	115
CONDUIT, 75mm & FITTINGS (RGC)	METER	61
CONDUIT, 100mm & FITTINGS (RGC)	METER	
#8 AWG GROUND (GREEN)	METER	150
STREET NAME SIGN	EACH	**
VIDEO DETECTION CAMERA (VANTAGE OZ2), MOUNTING HARDWARE	EACH	4
VIDEO DETECTION UNIT (VANTAGE EDGE MODULE)	METER	4
VIDEO POWER CABLE #16 AWG 3/c	METER	300
VIDEO CABLE 75 OHM COAXIAL (BELDON #8281 OR APPROVED EQUAL)	METER	300
TV MONITOR	EACH	

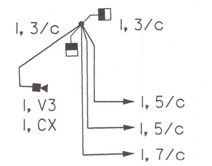
** USE EXISTING



⏕ Ground Wire No. 8 AWG, 1/c
⊛ Power Supply 2 No. 6 AWG, 1/c
V3 Video Power Cable No. 16 AWG, 3/c
CX 75 ohm Coax Video Cable
6 pr. Comm. Cable - PVC Jacketed No. 19 AWG Twisted Pair

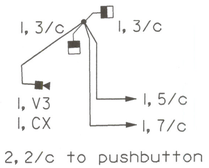
WIRING DIAGRAM

Poles 2 & 4



2, 2/c to pushbutton

Poles 1 & 3



2, 2/c to pushbutton

POLE WIRING DIAGRAM

-QUANTITIES FOR INFORMATION ONLY-

NO.	DATE		BY	APP'D
3				
2				
1				

KANSAS DEPARTMENT OF TRANSPORTATION

TYPE 170E SYSTEM
TRAFFIC SIGNAL QUANTITIES SHEET
TYLER ROAD & McCORMICK

~~TE130BS1~~ 04/28/98

FHWA APPROVAL	05/18/98		APP'D	Linda C. Voss, P.E.	
DESIGNED	J.F.F.	DETAILED	J.F.F.	QUANTITIES	TRACED
DESIGN CK.	D.A.C.	DETAIL CK.	D.A.C.	QUAN. CK.	TRACE CK.

Plotted By : @@USERNAME@@ Thacher Bldg., 4th Floor
Plot File : @@@@@@@@@@@@DGNSPEC@@@@@@@@@@@@
Plot Date : @@@@@SYTIME@@@@@@
DSNR: RPG OPER: JGP SCALE: NI 2-28-2002 8:17:33 LAST REV: 4-1-02 BY: DRP
k:/1997/97362/SIGNALS/QUANMCCORMICK.DGN