

DATE	
BY	
REFERENCES NOTED	
REFERENCES CHECKED	

CHART A SIGNAL SUMMARY

NO. WAYS	NO. SECTIONS (per face)	SIGNAL FACE ARRANGEMENT	MOUNTING TYPE	QUANTITY
1	3	A	RIGID MAST ARM	6
1	3	C	RIGID MAST ARM	2
1	5	I	RIGID MAST ARM	2
2	2	K	VERTICAL BRACKET	8
1	3	A	VERTICAL BRACKET	4

MAJOR ITEMS OF ELECTRONIC EQUIPMENT

ITEM	QTY
CONTROLLER, MODEL 170 WITH 400 MODEM	1
CONTROLLER, CABINET, PAD-MOUNTED	1
CONFLICT MONITOR 210P, MS OR ECL	1
FLASHER	2
FLASH TRANSFER RELAY	4
LOAD SWITCH	8
SURGE PROTECTOR	1
DC ISOLATOR	3
PROGRAM MODULE 412 B W/ WAPITI 56 OR LATEST REV	1

CHART C

CONDUIT	TRENCHED	PUSHED
19mm		
25mm		
32mm	7m	
50mm	809m	
76mm	38m	

CHART D STREET NAME SIGN SUMMARY

LEGEND	SIZE
Harry St	2
Edgemoor	2

SIGNAL FACE SUMMARY

PHASE	TYPE	# REQ'D
1	C	1
2	A, K	3, 2
3	I	1
4	A, K	2, 2
5	C	1
6	A, K	3, 2
7	I	1
8	A, K	2, 2

TYPE A

TYPE C

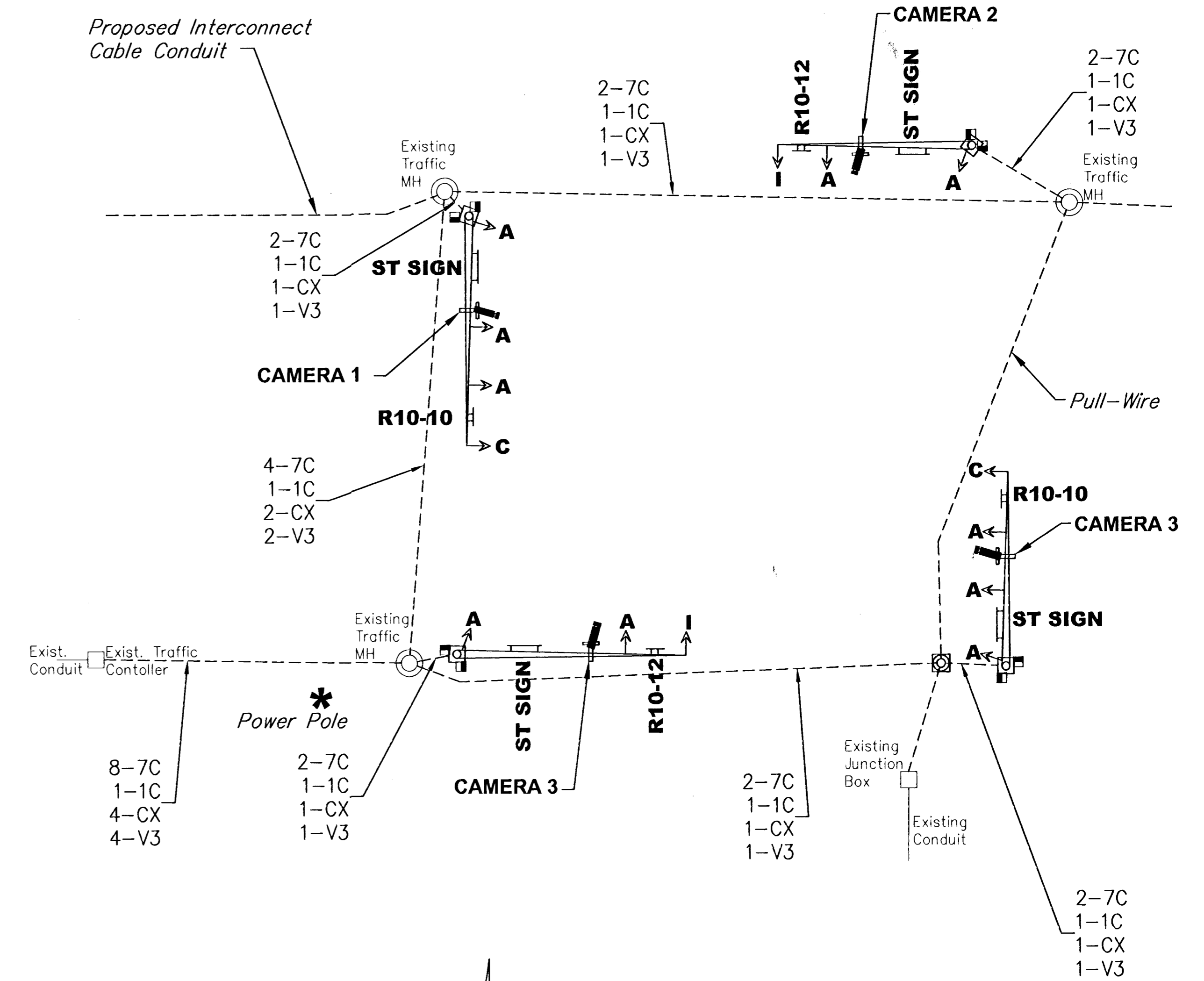
TYPE I

TYPE K

12" SYMBOLIC FACE

BILL OF MATERIALS

ITEM	UNIT	QUANT.
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	22
TRAFFIC SIGNAL POLE (SEE CHART B) STEEL	EACH	4
TRAFFIC SIGNAL POLE (SEE CHART B) ALUMINUM	EACH	
TRAFFIC SIGNAL PEDESTAL ALUMINUM 4.5m	EACH	
CONCRETE CONTROLLER PAD	EACH	1
CONCRETE FOOTING - PEDESTAL	EACH	
CONCRETE FOOTING - POLE	EACH	3
CONDUIT ELBOW 90	EACH	As Needed
CONDUIT ELBOW 90 3"	EACH	As Needed
BACK PLATE 5" 3 SECTION	EACH	8
BACK PLATE 5" 4 SECTION	EACH	
BACK PLATE 5" 5 SECTION	EACH	2
TERMINAL BLOCK	EACH	
SERVICE BOX	EACH	1
JUNCTION BOX	EACH	
GROUND ROD & CLAMP	EACH	4
RED L.E.D. KIT	EACH	14
YELLOW L.E.D. KIT	EACH	12
GREEN L.E.D. KIT	EACH	12
YELLOW ARROW	EACH	4
GREEN ARROW	EACH	4
ORANGE/WHITE L.E.D. KIT(12" COMBINATION-"HAND/MAN" INDICAT.)	EACH	8
ENTRANCE HEAD	EACH	
CIRCUIT BREAKER & BOX 40 AMP	EACH	
GUY WIRE GUARD	EACH	
GUY WIRE CLAMP	EACH	
THIMBLE EYE ANCHOR ROD	EACH	
PEDESTRIAN PUSHBUTTON W/SIGN	EACH	8
PEDESTRIAN INDICATOR HEAD WITH MOUNTING HARDWARE	EACH	8
COMMUNICATION CABLE 6 PAIR NO. 19 A.W.G.	METER	
DETECTOR LOOP WIRE NO. 14 A.W.G 1/c (TYPE THHN)	METER	
LEAD-IN WIRE NO. 6 A.W.G. 1/c (TYPE THHN)	METER	150
MULTI-CONDUCTOR CABLE NO. 14 A.W.G. 5/c	METER	
MULTI-CONDUCTOR CABLE NO. 14 A.W.G. 7/c	METER	520
MULTI-CONDUCTOR CABLE NO. 14 A.W.G. 2/c	METER	
SHIELDED DETECTOR LEAD-IN NO. 16 A.W.G. 2/c	METER	
CONDUIT 19mm	SEE CHART C	
CONDUIT 25mm	SEE CHART C	
CONDUIT 32mm	SEE CHART C	
CONDUIT 50mm	SEE CHART C	
CONDUIT 76mm	SEE CHART C	
STANDARD IC #8 (GROUND)	METER	ISO
TETHER WIRE 6mm ASTM A475 Siemens-Martin Grade Min.	METER	
REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT **	L. S.	1
STREET NAME SIGNS - SEE CHART D	EACH	4
LEFT TURN YIELD ON GREEN W/MOUNTING HARDWARE (R10-12)	EACH	2
LEFT TURN SIGNAL ON GREEN W/MOUNTING HARDWARE(R10-10)	EACH	2
VIDEO DETECTION SYSTEM (4 CAMERAS) & MOUNTING HARDWARE	EACH	1
COAX CABLE - 75 OHM (BELDEN 8281)	METER	270
VIDEO POWER CABLE #16 AWG 3/C	METER	270
VIDEO DETECTION PROCESSOR UNIT	EACH	1
CAMERA HOUSING	EACH	4
CAMERA CHARGED COUPLING DEVICE	EACH	4



* EXISTING METER TO BE RETAINED

NO SCALE

V3 - VIDEO POWER CABLE
CX - VIDEO COAXIAL CABLE

- Quantities For Information Only -
NOTE: The contractor shall supply and install all necessary materials and equipment for the complete installation and operation of the traffic signal system whether specifically mentioned or not.

* Subscript "P" indicates programmed signals. Subscript "D" indicates dual-mode green/yellow arrow section.
** Removal of existing traffic signal equipment shall include removal of foundations, service boxes, and junction boxes. See construction traffic control regarding removal of existing signals.

CHART B TRAFFIC SIGNAL POLE SUMMARY

STATION	OFFSET	POLE TYPE	MAST ARM LENGTH	NO. OF SIGNALS ON MAST ARM	BRACKET TYPE	NO. OF SIGNALS ON POLE	BRACKET TYPE	OTHER EQUIPMENT ON ARM
0+984.438	12.759 Rt.	A	13 m	2 - D	I	1-D, 2-E	II	C, F, G
0+984.984	12.056 Lt.	A	13 m	3 - D	I	1-D, 2-E	II	C, F, G
1+013.427	16.267 Lt.	A	11 m	2 - D	I	1-D, 2-E	II	C, F, G
1+015.666	13.188 Rt.	A	11 m	3 - D	I	1-D, 2-E	II	C, F, G

LEGEND:
A. STANDARD STEEL POLE WITH MAST ARM
B. STANDARD STEEL POLE WITH MAST ARM (JOINT USE)
C. PROTECTED TURN SIGN (R10-10 or R10-12)
D. TRAFFIC SIGNAL
E. PEDESTRIAN SIGNAL WITH PUSH BUTTON
F. STREET NAME SIGN
G. VIDEO DETECTION CAMERA

- LEGEND:**
- Steel Traffic Signal Pole (Joint Use)
 - Traffic Signal Indication
 - Video Detection Camera
 - Service Box
 - Controller
 - Pedestrian Indication
 - Junction Box
 - Vehicle Detection Zone
 - Detection Number
 - Rigid Galvanized Conduit (RGC)
 - Pvc Conduit
 - Meter Box and Power Disconnect
 - Overhead Street Name Sign
 - Overhead Sign

SIGNAL TIMING BY
CITY OF WICHITA
PAUL GUNZELMAN
268-4448

REVISED

Harry Street - Oliver to Woodlawn SIGNALIZATION QUANTITY SHEET WICHITA, KANSAS

Ruggles & Bohm, P.A.
Engineering, Surveying, Land Planning

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DRAWN: MWS
REVIEW: MWS
UTILITY: MWS
SHEET: 52a OF 92