BILL OF MATERIALS (FOR INFORMATION ONLY)

ITEM	UNIT	EMPORIA & 3rd ST. NORTH	TOPEKA & 3rd ST. NORTH	EMPORIA & ENGLISH	TOPEKA & ENGLISH
		QUANT.			
POLE MOUNTED CONTROLLER & CABINET	EACH	1	1	1	1
PEDESTAL MOUNTED CONTROLLER & CABINET	EACH	–	–	–	–
PAD MOUNTED CONTROLLER & CABINET	EACH	–	–	–	–
TRAFFIC SIGNAL HEAD (SEE CHART A) W/ MOUNTING HARDWARE	EACH	15	15	14	14
TRAFFIC SIGNAL POLE (SEE CHART B) 20' STEEL W/ MAST ARM	EACH	–	–	–	–
TRAFFIC SIGNAL POLE (SEE CHART B) 30' STEEL JOINT USE W/ MAST ARM	EACH	3	2	2	2
TRAFFIC SIGNAL POLE (SEE CHART B) 30' STEEL JOINT USE NO MAST ARM	EACH	1	2	2	2
TRAFFIC SIGNAL PEDESTAL ALUMINUM 15'	EACH	–	–	–	–
CONCRETE CONTROLLER PAD	EACH	–	–	–	–
CONCRETE FOOTING – PEDESTAL	EACH	–	–	–	–
CONCRETE FOOTING – POLE	EACH	4	4	4	4
CONDUIT ELBOW 90	EACH	*	*	*	*
CONDUIT ELBOW 90 3"	EACH	*	*	*	*
BACK PLATE 5" 3 SECTION	EACH	4	4	4	4
BACK PLATE 5" 4 SECTION	EACH	–	–	–	–
BACK PLATE 5" 5 SECTION	EACH	–	–	–	–
TERMINAL BLOCK	EACH	–	–	–	–
SERVICE BOX	EACH	4	4	4	4
JUNCTION BOX	EACH	–	–	–	–
GROUND ROD & CLAMP	EACH	4	4	4	4
CONDUIT CLAMP	EACH	*	*	*	*
RED L.E.D. KIT	EACH	7	7	6	6
YELLOW L.E.D. KIT	EACH	7	7	6	6
GREEN L.E.D. KIT	EACH	7	7	6	6
ORANGE/WHITE L.E.D. KIT (PEDESTRIAN SIGNAL – "HAND/MAN" INDICATION)	EACH	8	8	8	8
SPLICE KIT – AERIAL	EACH	1	1	–	–
SPLICE KIT – UNDERGROUND	EACH	–	–	1	1
CLASS 4, WOOD POLE	EACH	–	–	–	–
ENTRANCE HEAD	EACH	1	1	–	–
CIRCUIT BREAKER & BOX 30 AMP	EACH	1	1	1	1
GUY WIRE GUARD	EACH	–	–	–	–
GUY WIRE CLAMP	EACH	–	–	–	–
THIMBLE EYE ANCHOR ROD	EACH	–	–	–	–
COMMUNICATION CABLE 6 PAIR NO. 19 A.W.G.	LIN. FT.	60	90	100	130
DETECTOR LOOP WIRE NO. 14 A.W.G 1/c (TYPE THHN)	LIN. FT.	–	–	–	–
LEAD–IN WIRE NO. 6 A.W.G. 1/c (TYPE THHN)	LIN. FT.	–	–	–	–
MULTI–CONDUCTOR CABLC NO. 14 A.W.G. 5/c	LIN. FT.	980	835	820	980
MULTI–CONDUCTOR CABLE NO. 14 A.W.G. 7/c	LIN. FT.	–	–	–	–
MULTI–CONDUCTOR CABLE NO. 14 A.W.G. 2/c	LIN. FT.	–	–	–	–
SHIELDED DETECTOR LEAD–IN NO. 16 A.W.G. 2/c	LIN. FT.	–	–	–	–
CONDUIT PVC (2")	LIN. FT.	316	341	321	316
CONDUIT RGC (2")	LIN. FT.	84	108	91	44
CONDUIT RGC (3")	LIN. FT.	232	233	230	278
STANDARD IC #8 (GROUND)	LIN. FT.	345	330	335	365
TETHER WIRE 1/4" ASTM A475 Siemens–Martin Grade Min.	LIN. FT.	–	–	–	–
REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT **	L. S.	1	1	1	1
STREET NAME SIGNS – SEE CHART D	EACH	3	3	2	2
LEFT TURN YIELD ON GREEN (R10–12) W/ MOUNTING HARDWARE	EACH	–	–	–	–
ONE WAY SIGN (R6–1) W/ MOUNTING HARDWARE	EACH	4	4	4	4
SIDEWALK REMOVE/REPLACE	SQ. YD.	12.0	16.7	4.4	24.8

– Quantities For Information Only –

CHART A SIGNAL SUMMARY

PLAN SHEET	NO. WAYS	NO. SECTIONS (per face)	SIGNAL FACE ARRANGEMENT	MOUNTING TYPE	QUANTITY
3	1	3	R–Y–G	RIGID MAST ARM	4
3	1	3	R–Y–G	VERTICAL BRACKET	3
3	1	2	W–DW	VERTICAL BRACKET	8
4	1	3	R–Y–G	RIGID MAST ARM	4
4	1	3	R–Y–G	VERTICAL BRACKET	3
4	1	2	W–DW	VERTICAL BRACKET	8
5	1	3	R–Y–G	RIGID MAST ARM	4
5	1	3	R–Y–G	VERTICAL BRACKET	2
5	1	2	W–DW	VERTICAL BRACKET	8
6	1	3	R–Y–G	RIGID MAST ARM	4
6	1	3	R–Y–G	VERTICAL BRACKET	2
6	1	2	W–DW	VERTICAL BRACKET	8

CHART D STREET NAME SIGN SUMMARY

LEGEND	SIZE	QUANTITY
Topeka	7'	3
Emporia	7'	3
3rd St	4.5'	2
English	7'	2

SERVICE BOX SUMMARY

PLAN SHT.	STATION	DIST.–SIDE
3	8+48	27' Lt.
3	9+04	26' Lt.
3	9+11.5	32.5' Rt.
3	8+50	32.5' Rt.
4	4+71	26' Lt.
4	5+30	36' Lt.
4	5+24.5	38' Rt.
4	4+70.5	36.5' Rt.
5	8+50	30' Lt.
5	9+07.5	30.5' Lt.
5	9+10	29' Rt.
5	8+50	29' Rt.
6	4+56	29' Lt.
6	5+42	27' Lt.
6	5+40	31' Rt.
6	4+62	31' Rt.

CONTROLLER SUMMARY

ITEM	MODEL NO.	QUAN.
POLE MOUNTED CABINET	336A	1
CONTROLLER (2K RAM MIN.) w/400 modem	170E	1
PROM MODULE	412B	1
CONFLICT MONITOR (ECL or MS)	210P	1
SWITCH PACK	200	4
FLASHER UNIT	204	2
FLASH TRANSFER RELAY	403	4
MODEM	FO–400	––
TERMINATION RACK (BUCKHEAD ASSM.)	–––	1
TWO–CHANNEL DETECTOR	822	––
TWO–CHANNEL DC ISOLATOR	242	3

* As Needed

** Removal of existing traffic signal equipment shall include removal of foundations, service boxes, and junction boxes. See construciton traffic control reqarding removal of existing signals.

NOTES: 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.

Joint–Use poles to be drilled for Credenza Fixtures.

NO.	DATE	REVISIONS	BY	APP'D
3				
2				
1	8/09/02	PER CITY COMMENTS	RLC	SAC

CITY OF WICHITA, KANSAS
SEDGWICK COUNTY
TRAFFIC SIGNAL PLAN

PROJECT NO. 472–83510 (MS–231001)

GBA GEORGE BUTLER ASSOCIATES, INC.
Engineers · Architects

DESIGNED SAC	CHECKED SAC	PROJ. NO. 9807.00	
DRAWN JDB		DATE JUL. 19, 2002	

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