

K:\9674\Plans\96749700.dwg Layout: Signal Quantities -- Plotted by rcoisen on Thursday, July 18, 2002, 8:54am -- Copyright 2002, George Butler Associates, Inc.

BILL OF MATERIALS (FOR INFORMATION ONLY)				
ITEM	UNIT	ST. FRANCIS & 1st ST. NORTH	MARKET & ENGLISH	MARKET & LEWIS
POLE MOUNTED CONTROLLER & CABINET	EACH	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	17
TRAFFIC SIGNAL POLE ((6m (20') STEEL) W/MAST ARM	EACH	-	-	-
TRAFFIC SIGNAL POLE (9m (30') STEEL JOINT USE) W/MAST ARM	EACH	2	2	3
TRAFFIC SIGNAL POLE (9m (30') STEEL JOINT USE) NO MAST ARM	EACH	2	2	1
TRAFFIC SIGNAL PEDESTAL ALUMINUM 4.5m	EACH	-	-	-
CONCRETE CONTROLLER PAD	EACH	-	-	-
CONCRETE FOOTING - PEDESTAL	EACH	-	-	-
CONCRETE FOOTING - POLE	EACH	4	4	4
SCREW-IN STREET LIGHT BASE	EACH	-	-	1
CONDUIT ELBOW 90'	EACH	*	*	*
CONDUIT ELBOW 90' 75mm	EACH	*	*	*
BACK PLATE 125mm 3 SECTION	EACH	4	4	6
BACK PLATE 125mm 4 SECTION	EACH	-	-	-
BACK PLATE 125mm 5 SECTION	EACH	-	-	-
TERMINAL BLOCK	EACH	-	-	-
SERVICE BOX	EACH	4	4	4
JUNCTION BOX	EACH	-	-	-
GROUND ROD & CLAMP	EACH	4	4	4
CONDUIT CLAMP	EACH	*	*	*
RED L.E.D. KIT	EACH	7	7	9
YELLOW L.E.D. KIT	EACH	7	7	9
GREEN L.E.D. KIT	EACH	7	7	9
ORANGE/WHITE L.E.D. KIT (PED. SIGNAL - "HAND/MAN" INDICATION)	EACH	8	8	8
CLASS 4, WOOD POLE	EACH	-	-	-
ENTRANCE HEAD	EACH	-	-	-
CIRCUIT BREAKER & BOX 30 AMP	EACH	1	1	1
GUY WIRE GUARD	EACH	-	-	-
GUY WIRE CLAMP	EACH	-	-	-
THIMBLE EYE ANCHOR ROD	EACH	-	-	-
COMMUNICATION CABLE 5 PAIR NO. 19 A.W.G.	L.M.	5.0	5.0	5.0
DETECTOR LOOP WIRE NO. 14 A.W.G. 1/c (TYPE THHN)	L.M.	-	-	-
LEAD-IN WIRE NO. 6 A.W.G. 1/c (TYPE THHN)	L.M.	-	-	-
MULTI-CONDUCTOR CABLE NO. 14 A.W.G. 5/c	L.M.	300.0	270.0	290.0
MULTI-CONDUCTOR CABLE NO. 14 A.W.G. 7/c	L.M.	-	-	-
MULTI-CONDUCTOR CABLE NO. 14 A.W.G. 2/c	L.M.	-	-	-
SHIELDED DETECTOR LEAD-IN NO. 16 A.W.G. 2/c	L.M.	-	-	-
CONDUIT PVC 50mm (2")	L.M.	87.0	81.0	141.0
CONDUIT RGC 50mm (2")	L.M.	15.0	21.0	13.0
CONDUIT RGC 75mm (3")	L.M.	56.0	49.0	51.0
STANDARD 1/c #8 (GROUND)	L.M.	80.0	80.0	80.0
TETHER WIRE 1/4" ASTM A475 Siemens-Martin Grade Min.	L.M.	-	-	-
REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT **	L. S.	1	1	1
STREET NAME SIGNS - SEE CHART D	EACH	2	2	3
LEFT TURN YIELD ON GREEN W/ MOUNTING HARDWARE (R10-12)	EACH	-	-	-
ONE WAY SIGN W/MOUNTING HARDWARE (R6-1)	EACH	4	4	4
ACUTIME 2000 - RS232	EACH	-	1	-
ACUTIME INTERCONNECT CABLE	L.M.	-	20.0	-
SIDEWALK REMOVE / REPLACE	S.M.	39.490	6.450	27.950

- 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	6
5	1	2	W-DW	VERTICAL BRACKET	8
5	1	3	R-Y-G	VERTICAL BRACKET	3

SERVICE BOX SUMMARY		
PLAN SHT.	STATION	DIST.-SIDE
3	50+009.4	10.13m Lt.
3	50+009.4	11.30m Rt.
3	49+990.9	10.97m Rt.
3	49+990.8	9.47m Lt.
4	40+007.5	9.62m Lt.
4	40+007.6	11.58m Rt.
4	39+991.7	10.63m Rt.
4	39.992.3	11.22m Lt.
5	30+006.7	9.15m Lt.
5	30+007.6	9.52m Rt.
5	29+993.3	9.33m Rt.
5	29+992.9	10.75m Lt.

CHART D STREET NAME SIGN SUMMARY		
LEGEND	SIZE	QUANTITY
St Francis	2.134	1
1st St	1.370	1
Market	2.134	3
English	2.134	1
Lewis	2.134	1

\* As Needed

\*\* Removal of existing Traffic Signal equipment shall include removal of foundations, service boxes, junction boxes, and old services and risers. See construction Traffic Control regarding 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 Fixture. Poles will be an alternative flange plate design.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0275-01	2002	6	18

CONTROLLER SUMMARY *		
ITEM	MODEL NO.	QUAN.
POLE MOUNTED CABINET	336A	1
CONTROLLER (2K RAM MIN.) with 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	1

\* NOTE: The traffic signal controller at each intersection shall have the equipment as listed in the table.

NO.	DATE	REVISIONS	BY	APP'D
3	06/25/2002	PER CITY/ KDOT COMMENTS	RLC	SAC
2	05/22/2002	PER CITY/ KDOT COMMENTS	JDB	SAC
1	02/01/2002	PER CITY/ KDOT COMMENTS	JDB	SAC

CITY OF WICHITA, KANSAS  
SEDGWICK COUNTY  
TRAFFIC SIGNAL PLAN  
TRAFFIC SIGNAL QUANTITIES

PROJECT NO. 472-83419

**GBA** GEORGE BUTLER ASSOCIATES, INC.  
Engineers - Architects

DESIGNED SAC	CHECKED SAC	PROJ. NO. 9674.00
DRAWN JDB	DATE	Dec. 10, 2001