

Contractor shall relocate the following Traffic Signal Poles, as per specifications. Contractor shall coordinate relocation of signals with the Engineer. Prior to Construction the Engineer will arrange for police to direct traffic or a temporary signal shall be installed for signal relocation.

EXISTING LOCATION			PROPOSED LOCATION		
Station	Lt.	Rt.	Station	Lt.	Rt.
23+226.7	8.2 m		23+224	8.3 m	
23+227		11 m	23+225		13 m

* BILL OF MATERIALS		
ITEM	UNIT	APPROX. QUANTITY
Multi-Conductor Cable 7/c # 14 AWG	m	127
75 mm Conduit RGC	m	11
50 mm Conduit PVC	m	20

BROADWAY AND WILLIAM

* For Information Only

NOTE:
The Contractor shall supply and install all necessary materials and equipment for the complete operation of the traffic signal system whether specifically mentioned or not.

Seven copies of Catalog Cuts shall be submitted to the Engineer to be forwarded to the Traffic Engineer, City of Wichita 455 N. Main, 7th Floor, Wichita Kansas 67202.

Contractor shall stockpile existing poles, signals, and controller cabinet within R/W. Stockpiled poles and signals shall be removed by the City with own forces and funds.

All steel poles and bases shall be black powder coated, as per City of Wichita Specifications.

The Contractor shall drill for Credenza Fixtures as per City of Wichita Specifications.

CITY OF WICHITA		
BROADWAY AND ENGLISH BROADWAY AND WILLIAM TRAFFIC SIGNAL SUMMARY		
Booker ASSOCIATES INC. Wichita OF KANSAS Kansas		
SCALE Noted	DATE	DWG. NO. K9542

* BILL OF MATERIALS		
ITEM	UNIT	APPROX. QUANTITY
Traffic Signal Controller w/ Cabinet, as per specifications	Ea.	1
Traffic Signal Pole (Joint Use) w/o Mast Arm (Steel), as per specifications	Ea.	1
Traffic Signal Pole (Joint Use) w/ Mast Arm (Steel), as per specifications	Ea.	3
Concrete Base for Traffic Signal Pole (See Detail)	Ea.	4
Three Section Traffic Signal Head (3 @ 300 mm) as per specifications	Ea.	9
Two Section Traffic Signal Head (300 mm Pedestrian) as per specifications	Ea.	8
Traffic Signal Head Mounting Bracket for Mast Arm Mount (Type I)	Ea.	6
Traffic Signal Head Mounting Bracket for Side of Pole Mounting (Type II)	Ea.	4
Traffic Signal Side of Pole Mounting Bracket	Ea.	3
Traffic Signal Lamp (135 W)	Ea.	43
Ground Rod and Clamp	Ea.	5
Meter Box	Ea.	1
Power Disconnect Box (40 Amp)	Ea.	1
Weather Head	Ea.	1
Multi-Conductor Cable 6 Pair #19 AWG	m	150
Multi-Conductor Cable 7/C #14 AWG	m	250
Power Supply Wire (Type U.S.E.) #8 AWG	m	125
Service Box (See Detail and Summary)	Ea.	4
Junction Box (See Detail and Summary)	Ea.	3
Street Name Sign with Mounting Hardware	Ea.	3
75 mm Conduit RGC	m	87
50 mm Conduit RGC	m	172

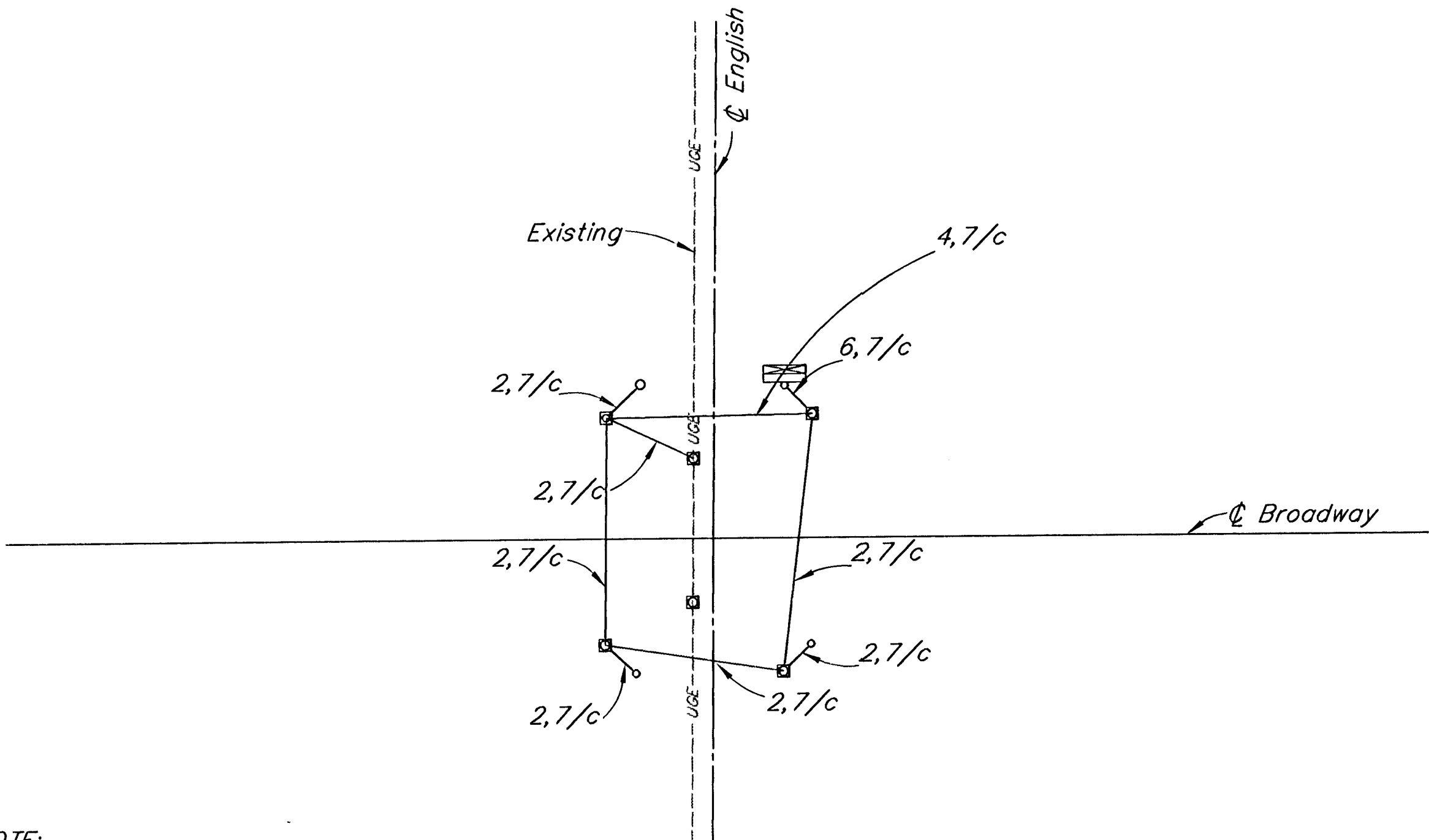
** Type 170 Traffic Signal Controller System

The system shall include the following equipment:

Model 170E Controller Unit complete with W4IKS (Revision 48A or latest Revision) Traffic Program on 470i System Memory Module with 400 Modem.

One Model 336 Cabinet complete with all accessories including a Model 210P Conflict Monitor (MS or ECL), four Model 430 Transfer Relays and two Model 204 Flasher Units.
4 Model 200 Switch Packs. 2 Model 242 D-C Isolator.
1 Model 400 Stand Alone Hayes Compatible Modem.

RECAPITULATION OF SIGNAL QUANTITIES		
ITEM	UNIT	QUANTITY
Traffic Signal Installation (Broadway & English)	L.S.	Lump Sum
Traffic Signal Installation (Broadway & William)	L.S.	Lump Sum



NOTE:
A Single Conductor Stranded No. 8 Green Wire shall carry the equipment ground from the grounding lug of all signal poles to the controller cabinet and the Power disconnect box.

STREET NAME SIGN SUMMARY	
LEGEND	QUANTITY
Broadway	1
English	2
TOTAL	3

SERVICE AND JUNCTION BOX SUMMARY				
LOCATION	STATION	SIDE	JUNCTION BOX	SERVICE BOX
Broadway	23+081	Rt.		1
	23+081	Lt.		1
	23+102	Rt.		1
	23+103	Lt.		1
	23+040	Lt.	1	
	23+143	Lt.	1	
	23+183	Lt.	1	
TOTALS			3	4

TRAFFIC SIGNAL HEAD SUMMARY				
SIGNAL NO.	TYPE	SIZE	MOUNTING BRACKET TYPE	QUANTITY
2	A	3@300	I	2
2	A	3@300	Side of Pole	1
6	A	3@300	I	2
6	A	3@300	Side of Pole	1
8	A	3@300	I	2
8	A	3@300	Side of Pole	1
2A	L	300	II	2
4A	L	300	II	2
6A	L	300	II	2
8A	L	300	II	2

STREET	POLE NO.	STATION	SIDE	TYPE	NO. OF ARMS	LENGTH	NO. OF SIGNALS ON ARM	X 1	OTHER EQUIP. ON ARM	NO. OF SIGNALS ON POLE
Broadway	1	23+101.7	Lt.		0	0	0	3.4 m	φ	2-φ,1-*
Broadway	2	23+080	Rt.	z1	1	12 m	2	3.6 m	\$, φ	2-φ,1-*
Broadway	3	23+082	Lt.	z1	1	12 m	2	3.6 m	\$, φ	2-φ,1-*
Broadway	4	23+104	Rt.	z1	1	8 m	2	3.6 m	\$, φ	2-φ,1-*

φ Pedestrian Signal with Push Button
\$ R10-12
φ Street Name Sign
z Steel Pole with Mast Arm
z1 Steel Pole with Mast Arm (Joint Use)
* Pole Mounted Signal

BROADWAY AND ENGLISH

Surv. Plot--Date: 05/28/98

APP. SKB

CKD. KEM

TR.

MCC

DR.

KEM

DES.

CADD

PLOT