

TRAFFIC SIGNAL QUANTITIES

ITEM	UNIT	EST. QUANTITIES (*)
Model 2070 Controller (See Inclusive List Below)	Each	City to Provide
Controller Cabinet	Each	1
Concrete Base for Controller	Each	1
Traffic Signal Pole w/ Mast Arm (See Chart B)	Each	4
Pedestrian Crossing Signal Pole	Each	2
Concrete Base for Signal Poles	Each	4
Concrete Base for Pedestrian Signal Pole	Each	2
Traffic Signal Head (Type A) w/ Reflect. Backplate & Brkt	Each	8
Traffic Signal Head (Type I) w/ Reflect. Backplate & Brkt	Each	4
Traffic Signal Head (Type I) (Type III)	Each	4
Traffic Signal Head (Type K) (Type II)	Each	8
R10-12 (Left Turn On Green) w/ Mtg. Brackets	Each	4
D3 Assy. (Street Name Size) w. Mtg. Brackets	Each	4
Pedestrian Pushbutton w/ Sign (**)	Each	8
Ground Rod & Clamp	Each	5
Traffic Manhole	Each	-
TRAFFIC SIGNAL LAMP RED LED KIT	Each	16
TRAFFIC SIGNAL LAMP YELLOW LED KIT	Each	16
TRAFFIC SIGNAL LAMP YELLOW ARROW LED KIT	Each	4
TRAFFIC SIGNAL LAMP GREEN LED KIT	Each	16
TRAFFIC SIGNAL LAMP GREEN ARROW LED KIT	Each	4
PEDESTRIAN LED W/COUNTDOWN	Each	8
3" RGC Conduit	L.F.	36
2" RGC Conduit	L.F.	46
1.5" RGC Conduit	L.F.	As Required
Video Detection Camera and Mounting Hardware	Each	4
Video Detection Processor	Each	1
Camera Housing	Each	4
Video Power Cable No. 16 AWG 3/C (V3)	L.F.	539
Video Cable 75 OHM Coaxial (Beldco 8281)(CX)	L.F.	539
TV Monitor	Each	1
Camera Charged Coupling Device	Each	4
Multi-Conductor Cable 7C #14 AWG	L.F.	1,092
Ground Wire 1C (THHN #8 AWG)	L.F.	411
Power Supply Wire (THHN #6 AWG)	L.F.	As Required

(*) For Information Only
 (**) Pedestrian Pushbutton
 Campbell Guardian APS Pushbuttons

GENERAL NOTES

- The Contractor shall be responsible for installing the controller, cabinet, concrete base and all other equipment necessary for the complete and satisfactory operation of the traffic signal, whether said equipment is specifically mentioned or not.
- Lengths given are to the centerline of poles/boxes and do not include lengths for elbows and risers.
- Signal heads, pedestrian signals, traffic signals, & etc. shall INCLUDE all brackets, hardware, & other incidentals necessary for installation.
- See City of Wichita Standard Specifications for additional wiring notes.

SPECIAL FINISH FOR TRAFFIC SIGNAL EQUIPMENT:

The traffic signal controller cabinet, brackets, sign blank backs, signal backs and other exposed surfaces shall be shop painted with an aerosol lacquer cellulose ester to match the traffic signal pole color. The Contractor shall submit two copies of the proposed coating system to the City for approval to application.

TYPE 2070 CONTROLLER SPECIFICATIONS

Traffic Signal Controller Hardware Requirements:

The Contractor shall supply fully assembled TRAFFICWARE Model 2070C/LX ATC controllers that are in full compliance with ATCS201 v6.24 and TEES 2009 by CalTrans. The Contractor shall provide evidence that controller units, with a make and model identical to those being provided, have been tested and approved in accordance with TEES, by Caltrans, or an approved agent of City of Wichita. A Quality Control Plan shall be submitted within fifteen (15) days from the Notice to Proceed as required by the TEES.

Front Panel Harness Interface:

The front panel harness cable shall have a minimum length of 254 mm (10 inches) to allow for interchangeability among equipment manufacturers.

Required Components for the Model 2070C/LX:

The Contractor shall supply Model 2070C/LX controllers with the following configuration:

- Unit Chassis
- Model 2070 1C CPU Module
- Model 2070 2E Field I/O Module w/C1, C11, C12 (Installed in H3 Slot)
- Model 2070 3B Front Panel Assembly (8 x 40 Display)
- Model 2070 4A Power Supply Module (Minimum 4.0 AMP)
- Model 2070 5B MCB Mounting Assembly
- Model 2070-7T or 7G GPS Module

NO. WAYS	NO. SECTIONS (Per Face)	SIGNAL FACE ARRANGEMENT	MOUNTING TYPE	QTY
1	3	A	TYPE I	8
1	5	I	TYPE I	4
1	3	A	TYPE III	4
1	2	K (SYMB)	TYPE II	8

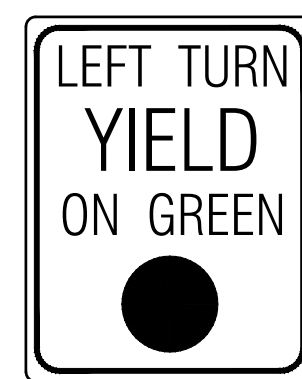
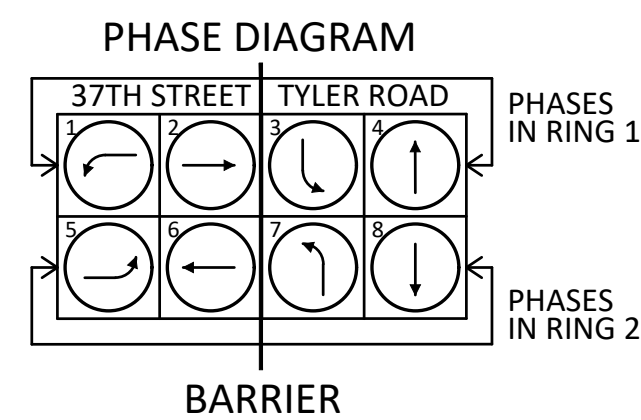
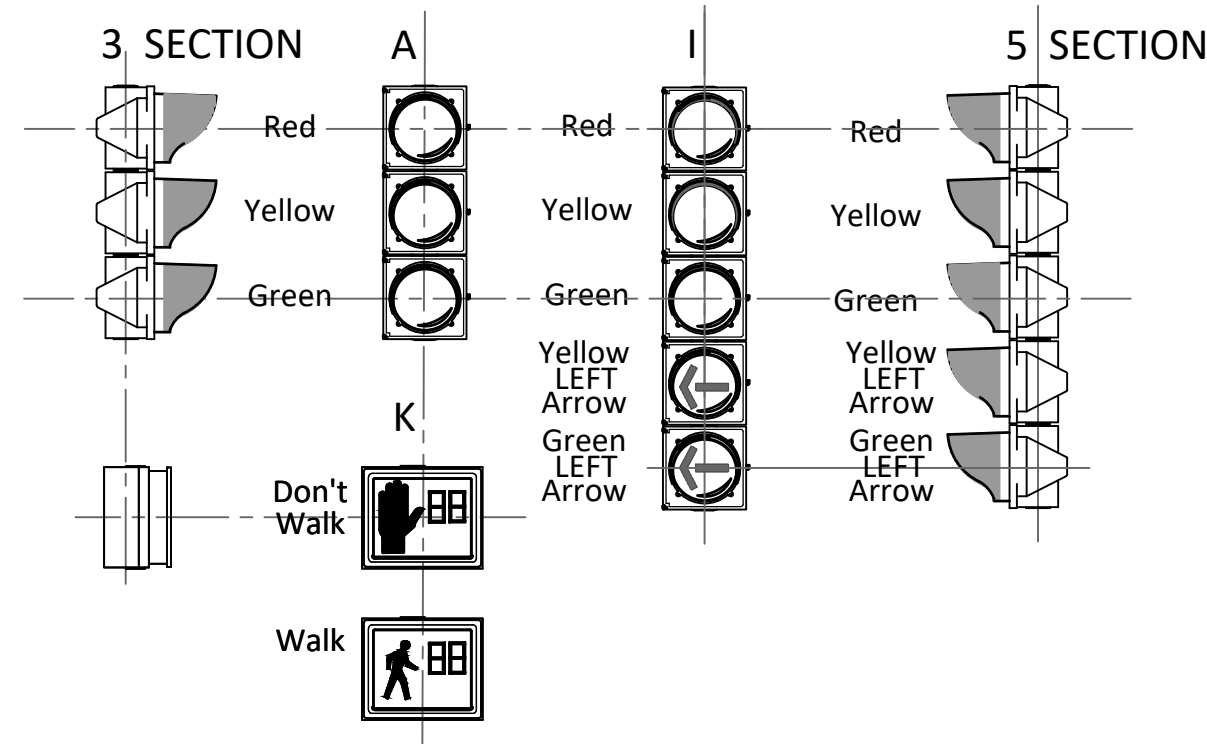
LOCATION	ARM LENGTH	NO. OF SIGNALS ON ARM	SIGNAL SPACING	TYPE*
Northwest Corner	53'	3	28.0' - 11.0' - 9.5'	STD
Southwest Corner	57'	3	34.0' - 11.0' - 9.5'	STD
Northeast Corner	57'	3	33.5' - 11.0' - 9.5'	JU
Southeast Corner	53'	3	30.0' - 11.0' - 9.5'	STD

CONDUIT SIZE	TRENCHED	PUSHED
1.5" RGC	-	-
2" RGC	46	-
3" RGC	36	-

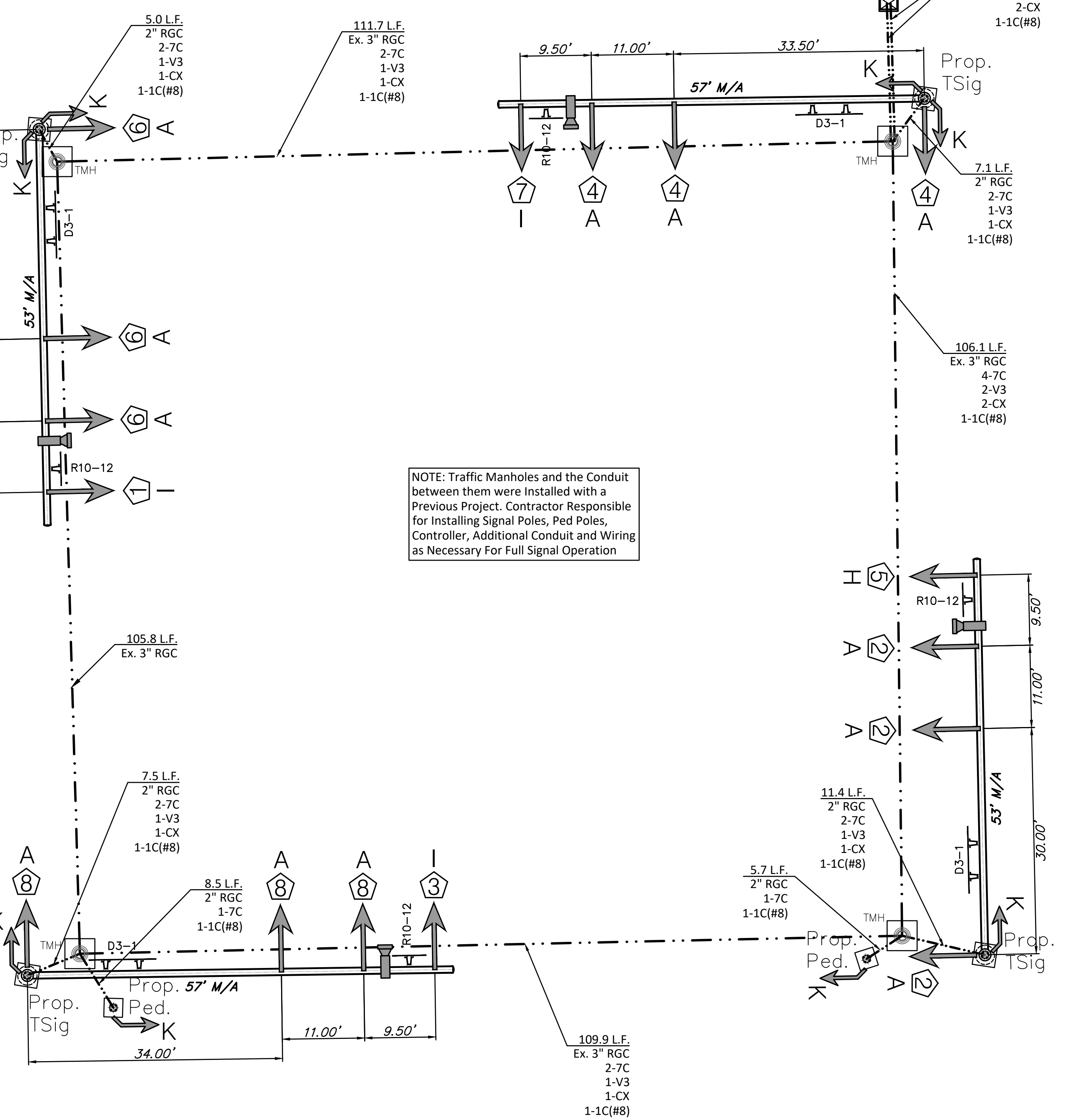
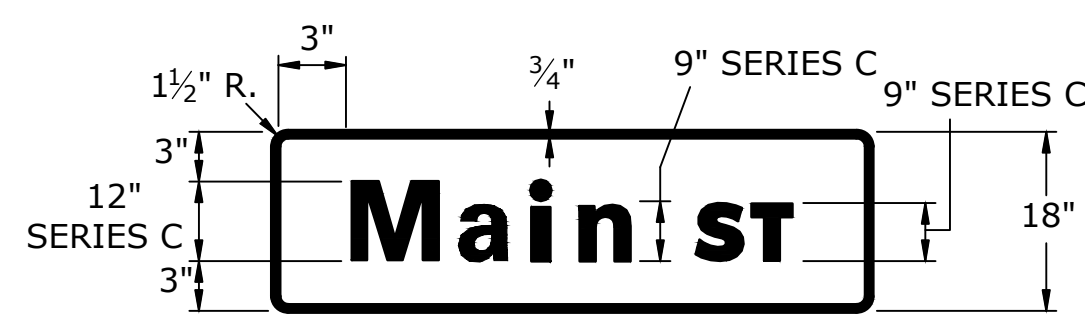
STATION	DISTANCE	SIDE

CORNER	LOCATION
Southwest Corner	See Sheet 3
Southeast Corner	See Sheet 3

LOCATION	LEGEND	TYPE	QTY	UNITS	SIZE	ADDRESS
Northwest Corner	TYLER	D-3	1	EA	18" X Varies	-
Southwest Corner	37TH ST	D-3	1	EA	18" X Varies	-
Northeast Corner	37TH ST	D-3	1	EA	18" X Varies	-
Southeast Corner	TYLER	D-3	1	EA	18" X Varies	-



R10-12
30" x 36"



37TH STREET & TYLER ROAD SIGNALIZATION
SIGNAL WIRING
 CAPITAL IMPROVEMENT PROJECT

PROJECT NUMBER: 472-85555
 INTERNAL NUMBER: 19-07-E318
 DESIGN: LP
 DRAWN: LP
 DATE: May, 2020
 SHEET 4 OF 14

BAUGHMAN COMPANY
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 BaughmanCo.com