

| DETECTOR SUMMARY | | | | | | | |
|------------------|----------------|----------|------------|--------------|----------------|---------------------|------------------------|
| CAMERA NO. | DETECTION ZONE | MODE | SIZE (LxW) | PHASE CALLED | PHASE EXTENDED | DELAY/STRETCH TIMER | INITIAL SETTING (SEC.) |
| 1 | D7-1 | Presence | 60x6 | 7 | 7 | - | - |
| 1 | D7-2 | Presence | 60x6 | 7 | 7 | - | - |
| 1 | D7-3 | Pulse | 6x6 | 7 | 7 | S | 1 |
| 1 | D7-4 | Pulse | 6x6 | 7 | 7 | S | 1 |
| 1 | D4-1 | Presence | 60x6 | 4 | 4 | - | - |
| 1 | D4-2 | Presence | 60x6 | 4 | 4 | - | - |
| 1 | D4-3 | Presence | 60x6 | 4 | 4 | - | - |
| 1 | D4-4 | Presence | 60x6 | 4 | 4 | D | 8 |
| 1 | D4-5 | Pulse | 6x6 | 4 | 4 | S | 1 |
| 1 | D4-6 | Pulse | 6x6 | 4 | 4 | S | 1 |
| 1 | D4-7 | Pulse | 6x6 | 4 | 4 | S | 1 |
| 1 | D4-8 | Pulse | 6x6 | 4 | 4 | S | 1 |
| 1 | D4-9 | Pulse | 6x6 | 4 | 4 | S | 1 |
| 1 | D4-10 | Pulse | 6x6 | 4 | 4 | S | 1 |
| 2 | D5-1 | Presence | 60x6 | 5 | 5 | - | - |
| 2 | D5-2 | Presence | 60x6 | 5 | 5 | - | - |
| 2 | D2-1 | Presence | 60x6 | 2 | 2 | - | - |
| 2 | D2-2 | Presence | 60x6 | 2 | 2 | D | 8 |
| 2 | D2-3 | Pulse | 6x6 | 2 | 2 | S | 1 |
| 2 | D2-4 | Pulse | 6x6 | 2 | 2 | S | 1 |
| 2 | D2-5 | Pulse | 6x6 | 2 | 2 | S | 1 |
| 2 | D2-6 | Pulse | 6x6 | 2 | 2 | S | 1 |
| 3 | D3-1 | Presence | 60x6 | 3 | 3 | - | - |
| 3 | D3-2 | Pulse | 6x6 | 3 | 3 | S | 1 |
| 3 | D8-1 | Presence | 60x6 | 8 | 8 | - | - |
| 3 | D8-2 | Presence | 60x6 | 8 | 8 | - | - |
| 3 | D8-3 | Presence | 60x6 | 8 | 8 | D | 8 |
| 3 | D8-4 | Pulse | 6x6 | 8 | 8 | S | 1 |
| 3 | D8-5 | Pulse | 6x6 | 8 | 8 | S | 1 |
| 3 | D8-6 | Pulse | 6x6 | 8 | 8 | S | 1 |
| 3 | D8-7 | Pulse | 6x6 | 8 | 8 | S | 1 |
| 3 | D8-8 | Pulse | 6x6 | 8 | 8 | S | 1 |
| 3 | D8-9 | Pulse | 6x6 | 8 | 8 | S | 1 |
| 4 | D1-1 | Pulse | 60x6 | 1 | 1 | - | - |
| 4 | D6-1 | Pulse | 60x6 | 6 | 6 | D | 8 |

Detector Summary reflects initial operation.

| FUNCTION | PHASE TIMING | | | | | | | |
|-----------------|--------------|------|------|------|------|------|------|------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| MINIMUM GREEN | 5.0 | 8.0 | 5.0 | 8.0 | 5.0 | 8.0 | 5.0 | 8.0 |
| MAXIMUM GREEN | 25.0 | 30.0 | 30.0 | 60.0 | 25.0 | 30.0 | 30.0 | 60.0 |
| YELLOW CHANGE | 3.0 | 3.2 | 3.0 | 3.9 | 3.0 | 3.2 | 3.0 | 3.9 |
| RED CLEAR | 3.4 | 2.5 | 3.4 | 2.0 | 3.4 | 2.5 | 3.4 | 2.0 |
| ADDED INITIAL | 1.0 | 2.0 | 1.0 | 2.0 | 1.0 | 2.0 | 1.0 | 2.0 |
| MAXIMUM INITIAL | 6.0 | 10.0 | 6.0 | 10.0 | 6.0 | 10.0 | 6.0 | 10.0 |

Phase Timing reflects initial operation. Phases 4 & 8 to Soft Recall.

GENERAL NOTES

All Signal Heads shall have 12" LED lenses.

Placement of Signal Poles, Service/Junction Boxes, Conduit runs and Controller are typical and may be adjusted as directed by the Engineer to facilitate installation.

Utility locations are approximate. The Contractor shall be responsible for locating all underground utilities prior to construction.

The Contractor shall coordinate with Westar Energy for the exact location of the meter and disconnect box and for the connection of power for the traffic signal installation.

EQUIPMENT SPECIFICATIONS

- 2070 CONTROLLER**
- A. Controller Unit: The 2070L ATC controller supplied shall meet the requirements outlined in CalTrans TEES 2002 (latest revision), and the following requirements:
- The 2070L controller shall have a 19" EIA rack mountable chassis (mated to the I70 cabinet).
 - 2070-1B CPU module with RJ-45 Ethernet port.
 - 2070-2A CI field I/O module for compatibility with CalTrans style CI connector.
 - 2070-3B 8X40 front panel with LCD display.
 - 2070-4A 10 amp power supply.
 - 2070-7A asynchronous serial communications module (RS-232).
 - Any unused slot position shall have a cover plate.
- B. Conflict Monitor: The Conflict Monitor supplied shall be 2010 ECLIP conflict monitor.
- C. Backup System: The controller shall have a battery backup UPS system and accessories per City and/or KDOT Specifications.

- Construction Notes:**
- Contractor Shall Intercept 2" RGC (Sta. 117+85); Install an Elbow Joint and Extend Conduit to Service Box (Sta. 115+47).
 - Contractor Shall Intercept 2" RGC (Sta. 120+50); Install an Elbow Joint and Extend Conduit to Service Box (Sta. 119+74).

LEGEND

- 60' Traffic Signal Pole with Mast Arm & Length
- Traffic Signal Pedestal
- Traffic Signal Head
- Traffic Signal Head with Backplate
- Traffic Signal Radar Unit
- Pedestrian Signal Head
- Controller
- (XPhase) Detector Zone
- Service Box (Pre-Fab)
- R10-10 Sign
- R10-12 Sign
- Rigid Galvanized Conduit (RGC)
- (2A) Signal Phase & Head Arrangement
- Signal Pole Reference Number
- Traffic Signal Radar Unit Reference Number
- Street Name Sign
- L.E.D. Luminaire with Arm
- Meter and Enclosure
- Lane Use Arrow

SIGNAL HEADS

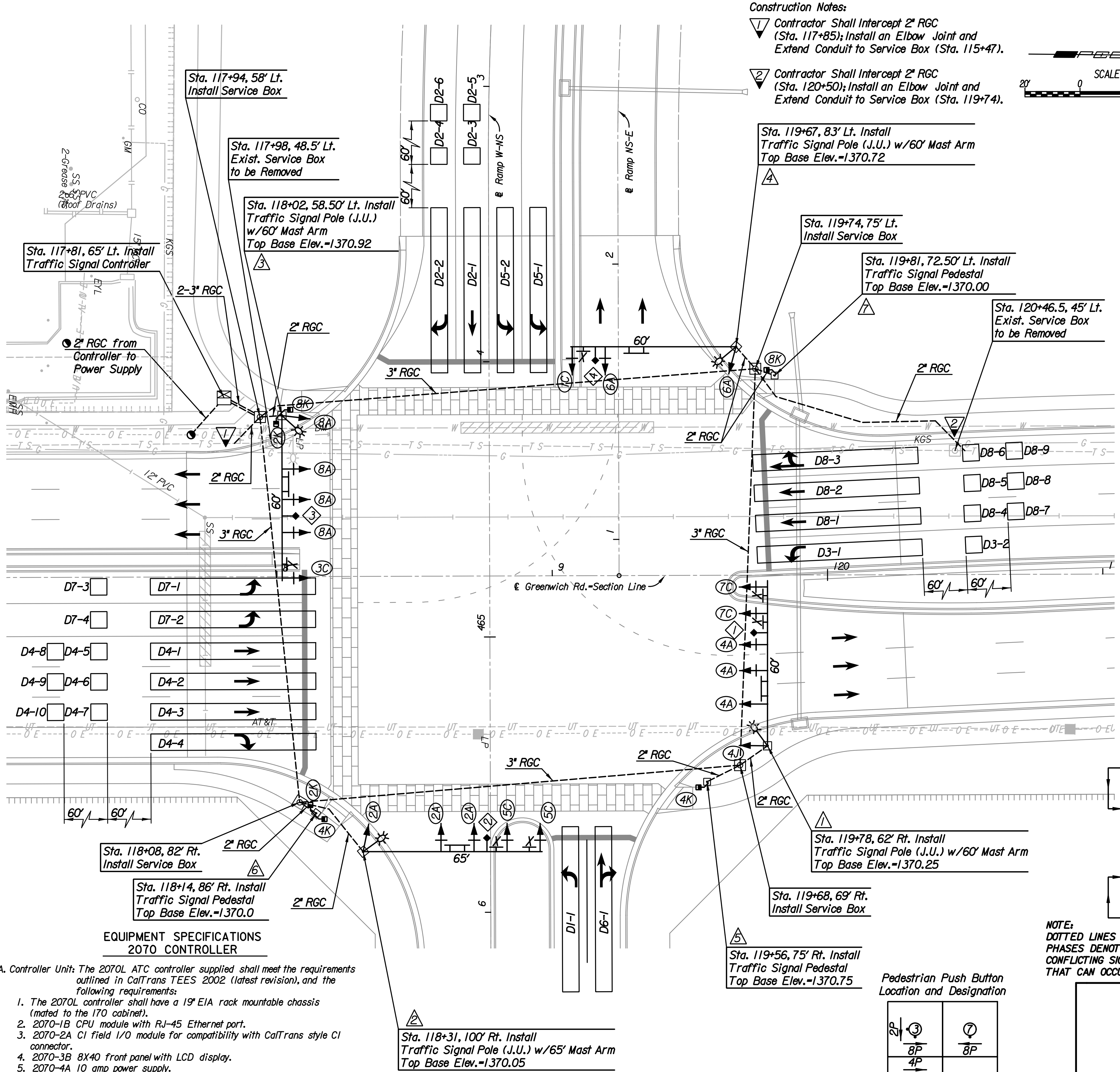
A R Y G
 B* R Y G
 C R Y G
 D R Y G
 E R Y G
 F R Y G
 G R Y G
 H R Y G
 I R Y G
 J R Y G
 K K-16"x18" One Section with Countdown

PHASE DIAGRAM

MOVEMENTS

- Protected Phase
- Permitted Phase

NOTE: DOTTED LINES CONNECTING PHASES DENOTE NON-CONFLICTING SIGNAL PHASES THAT CAN OCCUR CONCURRENTLY. PEDESTRIAN INTERVALS TO OCCUR ONLY AFTER PUSHBUTTON ACTIVATION.



Plotted By: svb Date: 12/31/2013 9:29:43 AM
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Revision By Date

K-96 AND GREENWICH ROAD

TRAFFIC SIGNAL PLAN
 GREENWICH & RAMPS W-NS & NS-E

GARY JANZEN, P.E.-CITY ENGINEER
 CITY OF WICHITA PROJECT NO. 472-85066

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Designed by SAC Job No. 09521
 Drawn by JDT Date Jan., 2014

Sheet 158 of 388