

| 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           | 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              | D                   | 8                      |
| 1                | D4-4           | Pulse    | 6x6        | 4            | 4              | S                   | 1                      |
| 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                      |
| 2                | D5-1           | Presence | 60x6       | 5            | 5              | -                   | -                      |
| 2                | D2-1           | Presence | 60x6       | 2            | 2              | D                   | 8                      |
| 3                | D3-1           | Presence | 60x6       | 3            | 3              | -                   | -                      |
| 3                | D3-2           | Presence | 60x6       | 3            | 3              | -                   | -                      |
| 3                | D3-3           | Pulse    | 6x6        | 3            | 3              | S                   | 1                      |
| 3                | D3-4           | 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           | Presence | 60x6       | 1            | 1              | -                   | -                      |
| 4                | D6-1           | Presence | 60x6       | 6            | 6              | D                   | 8                      |

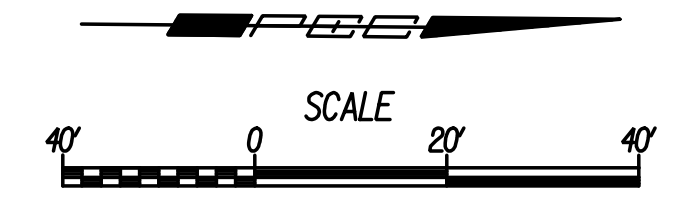
Detector Summary reflects initial operation.

| 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  | 3.6  | 3.0  | 3.2  | 3.0  | 3.6  |
| RED CLEAR       | 3.4          | 2.5  | 3.6  | 1.9  | 3.4  | 2.5  | 3.4  | 1.9  |
| 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 |

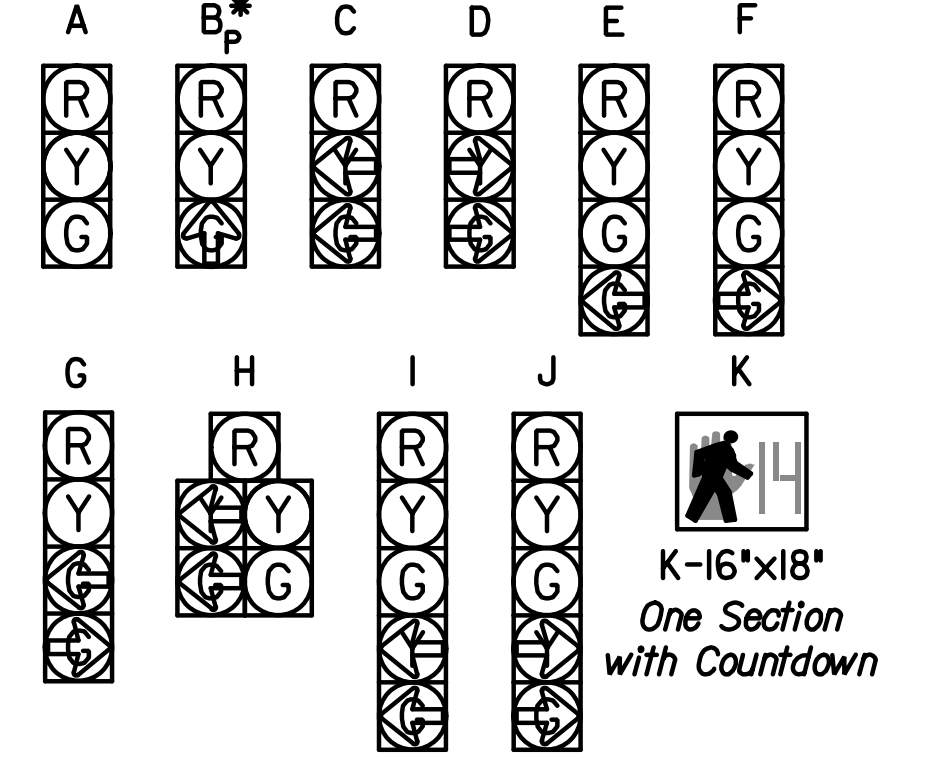
Phase Timing reflects initial operation. Phases 4 & 8 to Soft Recall.

**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.

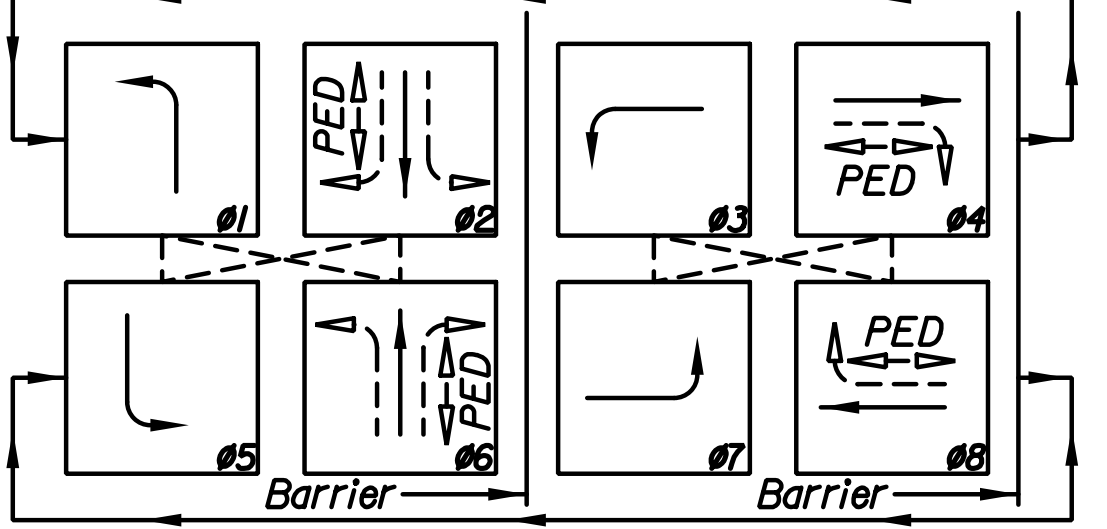


- LEGEND**
- 60' Traffic Signal Pole with Mast Arm & Length
  - Traffic Signal Pedestal
  - Traffic Signal Head
  - Traffic Signal Head with Backplate
  - Traffic Signal Radar Unit
  - Pedestrian Signal Head
  - Controller
  - (D)Phase Detector Zone
  - Service Box (Pre-Fab)
  - R10-10 Sign
  - R10-12 Sign
  - Rigid Galvanized Conduit (RGC)
  - 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
- Exact location to be determined by Westar Energy



**SIGNAL HEADS**

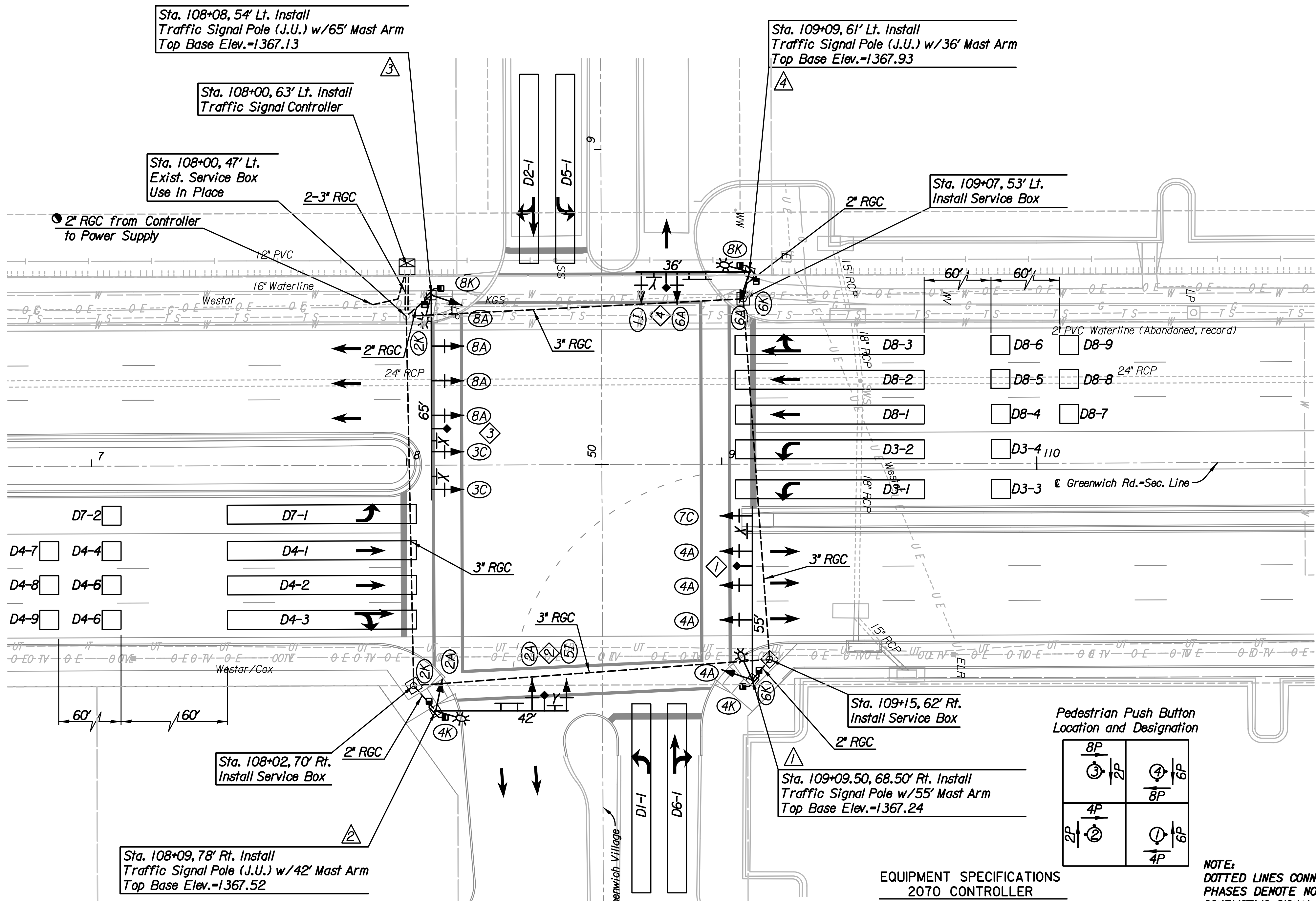
**PHASE DIAGRAM**



**NOTE:** DOTTED LINES CONNECTING PHASES DENOTE NON-CONFLICTING SIGNAL PHASES THAT CAN OCCUR CONCURRENTLY.

**PEDESTRIAN INTERVALS TO OCCUR ONLY AFTER PUSHBUTTON ACTIVATION.**

**MOVEMENTS**  
 — Protected Phase  
 - - - Permitted Phase



**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 170 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 BX40 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.

Revision: \_\_\_\_\_ By: \_\_\_\_\_ Date: \_\_\_\_\_

K-96 AND GREENWICH ROAD

**TRAFFIC SIGNAL PLAN**  
**GREENWICH AND GREENWICH VILLAGE**

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

**PEC** PROFESSIONAL ENGINEERING CONSULTANTS, P.A.  
 303 SOUTH TOPEKA WICHITA, KS 67202  
 316-262-2691 www.pec1.com

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

Sheet 156 of 388

Plotted By: svb Date: 12/31/2013 9:27:22 AM  
 FILE: I:\2009\09521-Traffic Signal\09521-Signal\_Greenwich\_Village.dgn