DETECTOR SUMMARY

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

GENERAL NOTES

All Signal Heads shall have 12" LED lenses.

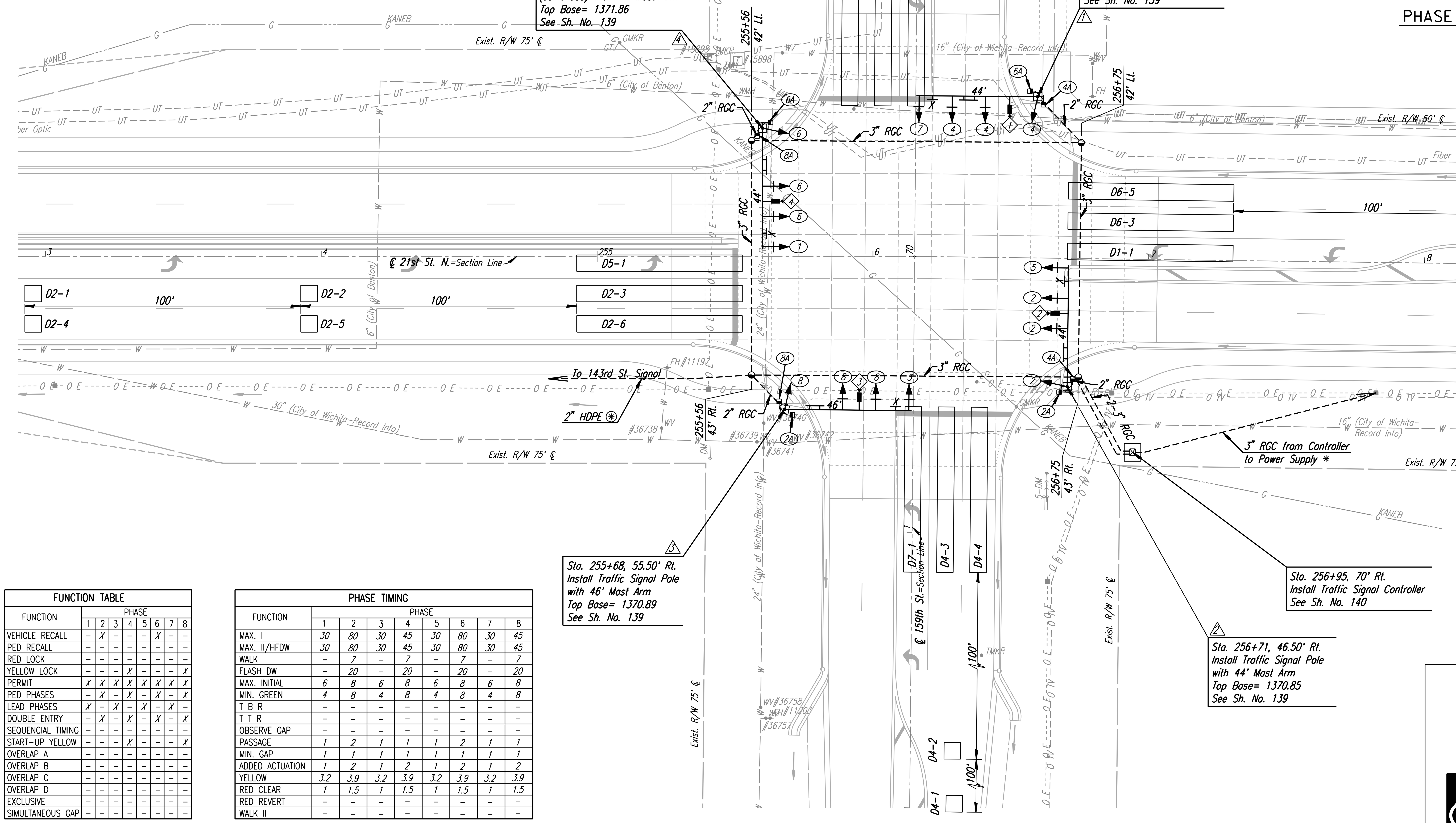
All Pedestrian Signal Heads shall have 16" LED lenses.

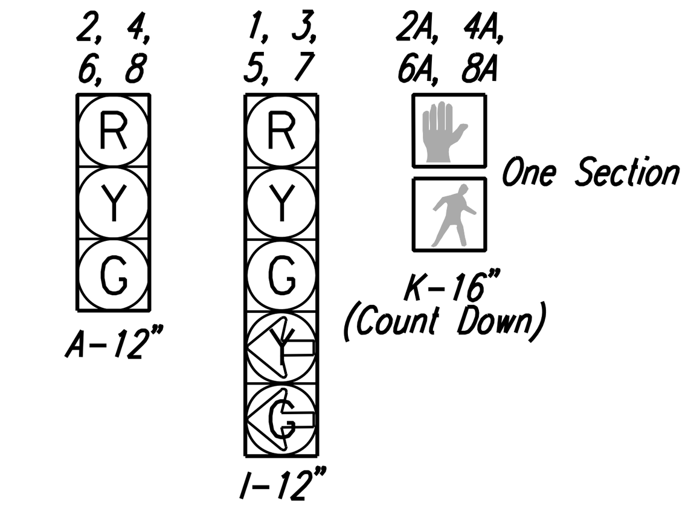
Placement of Signal Poles, Service/Junction Boxes, Conduit runs and Controller are typical and may be adjusted as directed by the Engineer to facilitate installation.

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

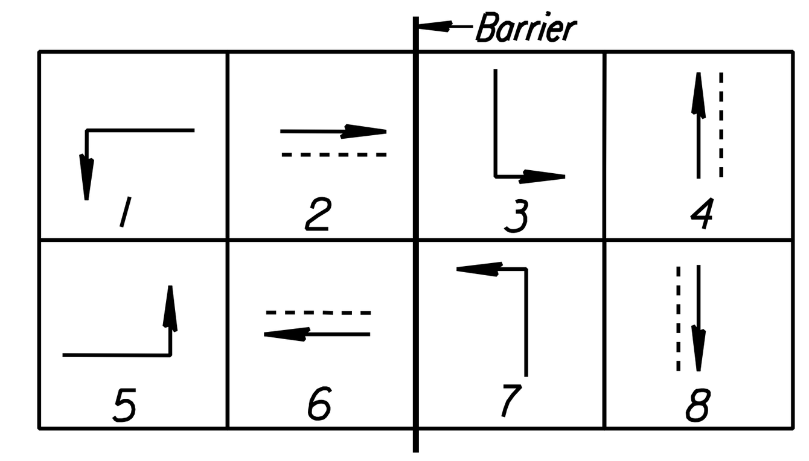
* The Contractor shall coordinate with Westar Energy for the exact location of the meter and disconnect box and for the connection of power for the traffic signal installation.

Joint Use luminaires are shown for information only. Luminaire, luminaire arm, and wiring to be provided and installed by Westar Energy. Joint Use lights to be served by overhead power lines.





SIGNAL HEAD ARRANGEMENT



PHASE DIAGRAM

LEGEND

- Traffic Signal Pole with Mast Arm
- Traffic Signal Head
- Traffic Signal Head with Backplate
- Traffic Signal Camera
- Pedestrian Signal Head
- T Pedestrian Push Button
- D(Phase)-# Detector Zone
- Controller with pad
- Service Box
- R10-12 Sign
- Rigid Galvanized Conduit (RGC)
- Signal Phase
- Signal Pole Reference Number
- Traffic Signal Camera Reference Number
- Street Name Sign
- Traffic Signal Interconnect

FUNCTION TABLE

FUNCTION	PHASE 1	2	3	4	5	6	7	8
VEHICLE RECALL	–	X	–	–	–	X	–	–
PED RECALL	–	–	–	–	–	–	–	–
RED LOCK	–	–	–	–	–	–	–	–
YELLOW LOCK	–	–	–	X	–	–	–	X
PERMIT	X	X	X	X	X	X	X	X
PED PHASES	–	X	–	X	–	X	–	X
LEAD PHASES	X	–	X	–	X	–	X	–
DOUBLE ENTRY	–	X	–	X	–	X	–	X
SEQUENCIAL TIMING	–	–	–	–	–	–	–	–
START-UP YELLOW	–	–	–	X	–	–	–	X
OVERLAP A	–	–	–	–	–	–	–	–
OVERLAP B	–	–	–	–	–	–	–	–
OVERLAP C	–	–	–	–	–	–	–	–
OVERLAP D	–	–	–	–	–	–	–	–
EXCLUSIVE	–	–	–	–	–	–	–	–
SIMULTANEOUS GAP	–	–	–	–	–	–	–	–

PHASE TIMING

FUNCTION	PHASE 1	2	3	4	5	6	7	8
MAX. I	30	80	30	45	30	80	30	45
MAX. II/HFDW	30	80	30	45	30	80	30	45
WALK	–	7	–	7	–	7	–	7
FLASH DW	–	20	–	20	–	20	–	20
MAX. INITIAL	6	8	6	8	6	8	6	8
MIN. GREEN	4	8	4	8	4	8	4	8
T B R	–	–	–	–	–	–	–	–
T T R	–	–	–	–	–	–	–	–
OBSERVE GAP	–	–	–	–	–	–	–	–
PASSAGE	1	2	1	1	1	2	1	1
MIN. GAP	1	1	1	1	1	1	1	1
ADDED ACTUATION	1	2	1	2	1	2	1	2
YELLOW	3.2	3.9	3.2	3.9	3.2	3.9	3.2	3.9
RED CLEAR	1	1.5	1	1.5	1	1.5	1	1.5
RED REVERT	–	–	–	–	–	–	–	–
WALK II	–	–	–	–	–	–	–	–

EQUIPMENT SPECIFICATIONS 2070 CONTROLLER

A. Controller Unit: The 2070L controller supplied shall meet the requirements outlined in CalTrans TEES 2002 (latest revision), and the following requirements:

1. The 2070L controller shall have a 19" EIA rack mountable chassis (mated to the 170 cabinet).
2. 2070-1B CPU module with RJ-45 Ethernet port.
3. 2070-2A C1 field I/O module for compatibility with CalTrans style C1 connector.
4. 2070-3B 8X40 front panel with LCD display.
5. 2070-4A 10 amp power supply.
6. 2070-7A asynchronous serial communications module (RS-232).
7. Any unused slot position shall have a cover plate.

B. Conflict Monitor: The Conflict Monitor supplied shall be 2010 ECL conflict monitor.

No.	Revision	By	Date

21ST ST. & 159TH ST.

TRAFFIC SIGNAL PLAN

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Designed by	WDH	Job No.	01616	Sht. 137 of 282
Drawn by	SVB	Date	August, 2008	

DSNR: WDH OPER: SVB SCALE: 20 BY: svb
I:/2001/01616/SIGNALS/01616-SIGNAL 159TH.DGN 3-9-2007 16:00:00 LAST REV: 5-22-2008