

CHART A SIGNAL INVENTORY			
NO.	NO. SECTIONS (Per Tower)	SIGNAL FACE ARRANGEMENT	MOUNTING TYPE ORY.
1	3	A	MAST ARM
1	5	1	MAST ARM
1	1	K	SIDE OF POLE

CHART B TRAFFIC SIGNAL POLES						
STATION	DIST	SIZE	AMOUNT	NO. OF SIGNAL ARMS	SIGNAL SPACING	TYPE
20+48.0	48.0	R1	33.0	3	19.8'-10.0'-11.0'	STD
20+49.3	49.3	R1	33.0	3	16.5'-11.0'-11.0'	STD
20+53.0	47.0	L1	33.0	3	12.8'-10.0'-10.0'	STD
19+56.0	33.0	L1	33.4	3	11.4'-11.0'-11.0'	STD

CHART D STREET NAME, SIGNAL MOUNTING, LIMITS, SIZE			
LEGEND	D-3	2	EA 2.5'X5.0'
DOUGLAS AVE	D-3	2	EA 2.5'X5.0'
OLIVER ST.	D-3	2	EA 2.5'X5.0'

CHART C - CONDUIT		
SIZE	TRENCHED	PUSHED
3" RGC	425.3	-

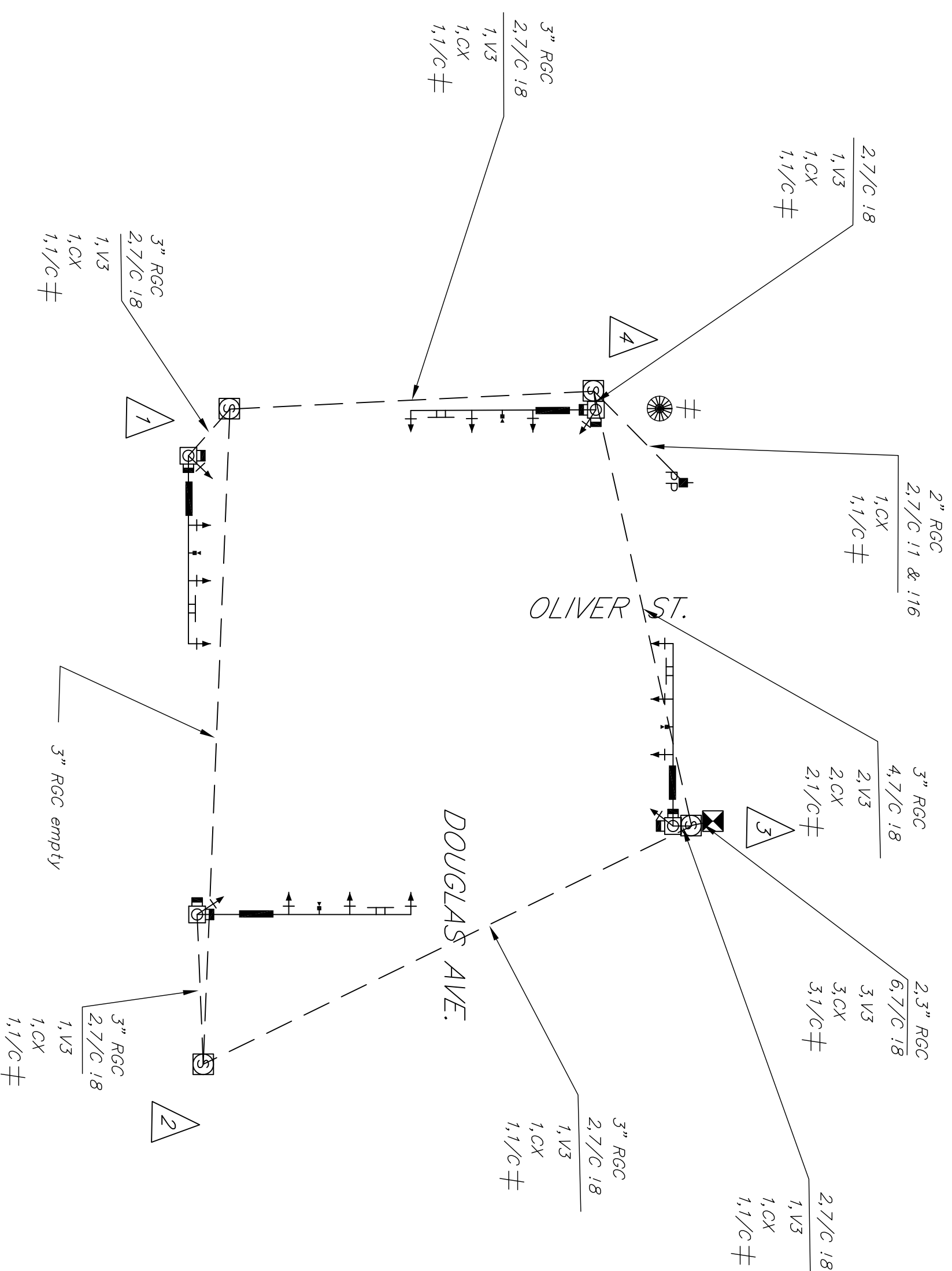
TRAFFIC MANHOLE SUMMARY					
STATION	DIST	SIZE	RI	LI	LI
19+56.0	36.0	R1			
20+43.0	42.0	L1			
19+55.0	33.0	L1			

EQUIPMENT SPECIFICATION
2070 CONTROLLER

- A. Controller Units: The 2070L controllers supplied shall meet the requirements outlined in Caltrans 2002 (latest revision), and the following requirements.
- The 2070L controller shall have a 19"-EA mountable chassis(mated to the 170 cabinet)
 - 2070-1B CPU module with RJ-45 Ethernet port
 - 2070-2A C1 field I/O module for compatibility with Caltrans style C1 connector.
 - 2070-3B 8X40 front panel with LOD display.
 - 2070-4A 10amp power supply
 - 2070-7A asynchronous serial communication module (RS-232)
 - Any unused slot position shall have cover plate.
- B. Conflict monitors: The Conflict Monitors supplied shall be Model 2010 ECL conflict monitors.
- C. 1-loop-back cable for 2070-2A Field I/O 9type 170, 104 pin and 37 pin connector.
- D. 1-loop-back cable for 2070-7A port.

GENERAL NOTES

- The Contractor shall be responsible for furnishing and installing the controller cabinet, concrete base, and for all equipment necessary for the complete satisfactory operation of the traffic signal.
- Lengths given are to the centerline of the pole/box and do not include lengths for elbows and risers
- Signal heads, pedestrian signals, traffic signs, etc. shall include all brackets, hardware, and other incidentals necessary for installation.
- Quantities are for information Only.
- All the poles and equipment need to be black.



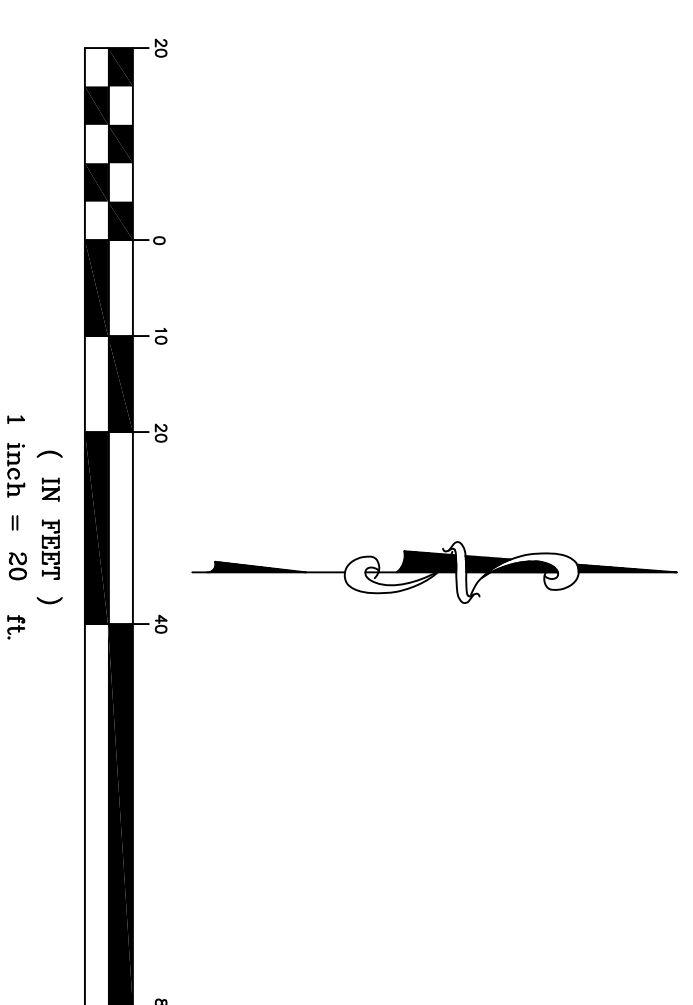
WIRING DIAGRAM

LEGEND:

- ⊕ Ground Wire No 8 AWG 1/C
 - ⊕ Power Supply 2 No 6 AWG 1/C
 - LV3 Video Power Cable No 16 AWG 3/C
 - CX 75 ohm Coax Video Cable
 - △ Signal Pole Reference Number
 - PB Power Pole
- Note: All splices to be in pole boss, no splices permitted within service box

BILL OF MATERIALS

ITEM	UNIT	QUANT.
PAD MOUNTED CONTROLLER & CABINET	EACH	1
TRAFFIC SIGNAL HEAD (SEE CHART A) W/ MOUNTING HARDWARE	EACH	16
TRAFFIC SIGNAL POLE (SEE CHART B) STEEL	EACH	4
PEDESTRIAN SIGNAL HEAD (12" COMBO) W/ MOUNTING HARDWARE	EACH	8
CONCRETE CONTROLLER PAD	EACH	1
TRAFFIC MANHOLE	EACH	4
CONCRETE FOOTING - POLE	EACH	4
CONDUIT ELBOW 90° 3"	EACH	AS REQD
CONDUIT ELBOW 90° 3"	EACH	AS REQD
BACK PLATE 5" 3 SECTION	EACH	8
BACK PLATE 5" 4 SECTION	EACH	4
BACK PLATE 5" 5 SECTION	EACH	4
TERMINAL BLOCK	EACH	1
SERVICE BOX	EACH	1
JUNCTION BOX	EACH	1
GROUND ROD & CLAMP	EACH	8
CONDUIT CLAMP	EACH	AS REQD
TRAFFIC SIGNAL LAMP RED LED KIT	EACH	16
TRAFFIC SIGNAL LAMP YELLOW LED KIT	EACH	16
TRAFFIC SIGNAL LAMP GREEN LED KIT	EACH	16
TRAFFIC SIGNAL LAMP GREEN ARROW LED KIT	EACH	4
TRAFFIC SIGNAL LAMP YELLOW ARROW LED KIT	EACH	4
ENTRANCE HEAD	EACH	1
CIRCUIT BREAKER & BOX	AMP	AS REQD
GUT WIRE GUARD	EACH	AS REQD
SHIELDING ENCLOSURE	EACH	AS REQD
THREE SET ASSEMBLY W/ SIGN	EACH	AS REQD
MULTI-CONDUCTOR CABLE NO. 14 A.W.G. 7/C	LN. FT.	810.1'
MULTI-CONDUCTOR CABLE NO. 18 A.W.G. 3/A	LN. FT.	395.3'
CONDUIT 3" RGC	LN. FT.	425.3'
STANDARD IC #8 (GROUND)	LN. FT.	385.3'
VIDEO DETECTION CAMERA & MOUNTING HARDWARE (RISER BRACKET)	EACH	1
VIDEO DETECTION PROCESSING UNIT	EACH	1
VIDEO MONITOR	EACH	1
TETHER WIRE 1/4" ASTM A475 Siemens-Martin Grade Min.	LN. FT.	AS REQD
REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT **	L. S.	1
STREET NAME SIGNS - SEE CHART D	EACH	4
LEFT TURN YIELD ON GREEN W/ MOUNTING HARDWARE (R10-12)	EACH	4



Intersection Improvement for Douglas & Oliver
Wiring Diagram
City of Wichita

Kemiller engineering
516 S. Market, Wichita, KS 67202
316/284-0242

PROJECT NUMBER
472-83755

KEY NO.	FILE	DATE	SHEET
030233	signal 1	7/2005	27
DESIGN	DRAWN	REVISED	OF
PB	PB	2/15/08	49