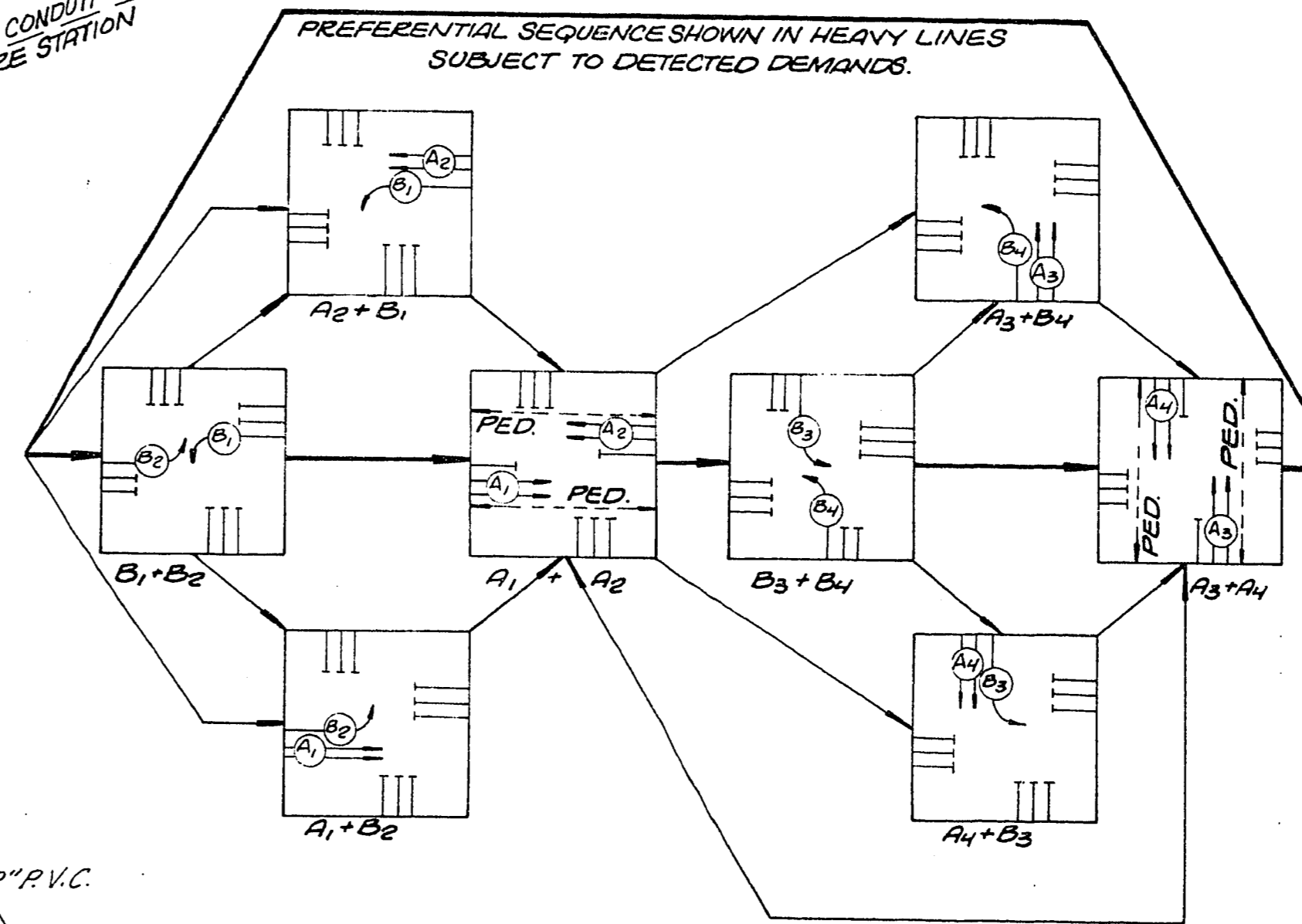


### POLE SCHEDULE

NO.	TYPE	POLE		SIGNALS (VEHICLE)		SIGNALS (PED.)		PED. PUSH BUTTON		REMARKS	
		MAST ARM LOCATION	LUM. ARM LOCATION	TYPE	MOUNTING LOCATION	MOUNTING LOCATION	ARROW	LOCATION	LOCATION		
A	I-B			IW3C	A-8T	POLE TOP	W-3	2	RIGHT	2	φ B <sub>2</sub> HEADS SHALL BE 12"
B	SPEC.	2	2	IW3C	M-3	MAST ARM	W-3	1			ALL HEADS SHALL BE 12" SECTIONS
C	I-B			IW3C	A-8T	POLE TOP	W-3	4	RIGHT	4	φ B <sub>4</sub> HEADS SHALL BE 12"
D	SPEC.	1	1	IW3C	M-3	MAST ARM	W-3	1			ALL HEADS SHALL BE 12" SECTIONS
E	I-B			IW3C	A-8T	POLE TOP	W-3	3	RIGHT	3	φ B <sub>1</sub> HEADS SHALL BE 12"
F	SPEC.	4	4	IW3C	M-3	MAST ARM	W-3	4			ALL HEADS SHALL BE 12" SECTIONS
G	I-B			IW3C	A-8T	POLE TOP	W-3	3	RIGHT	3	φ B <sub>3</sub> HEADS SHALL BE 12"
H	SPEC.	3	3	IW3C	M-3	MAST ARM	W-3	2			ALL HEADS SHALL BE 12" SECTIONS
J	VI	3	3	IW3C	M-2(2EA)	MAST ARM					ALL HEADS SHALL BE 12" SECTIONS. FIRE SIGNAL.
K	VI	1	1	IW3C	M-2(2EA)	MAST ARM					ALL HEADS SHALL BE 12" SECTIONS. FIRE SIGNAL.

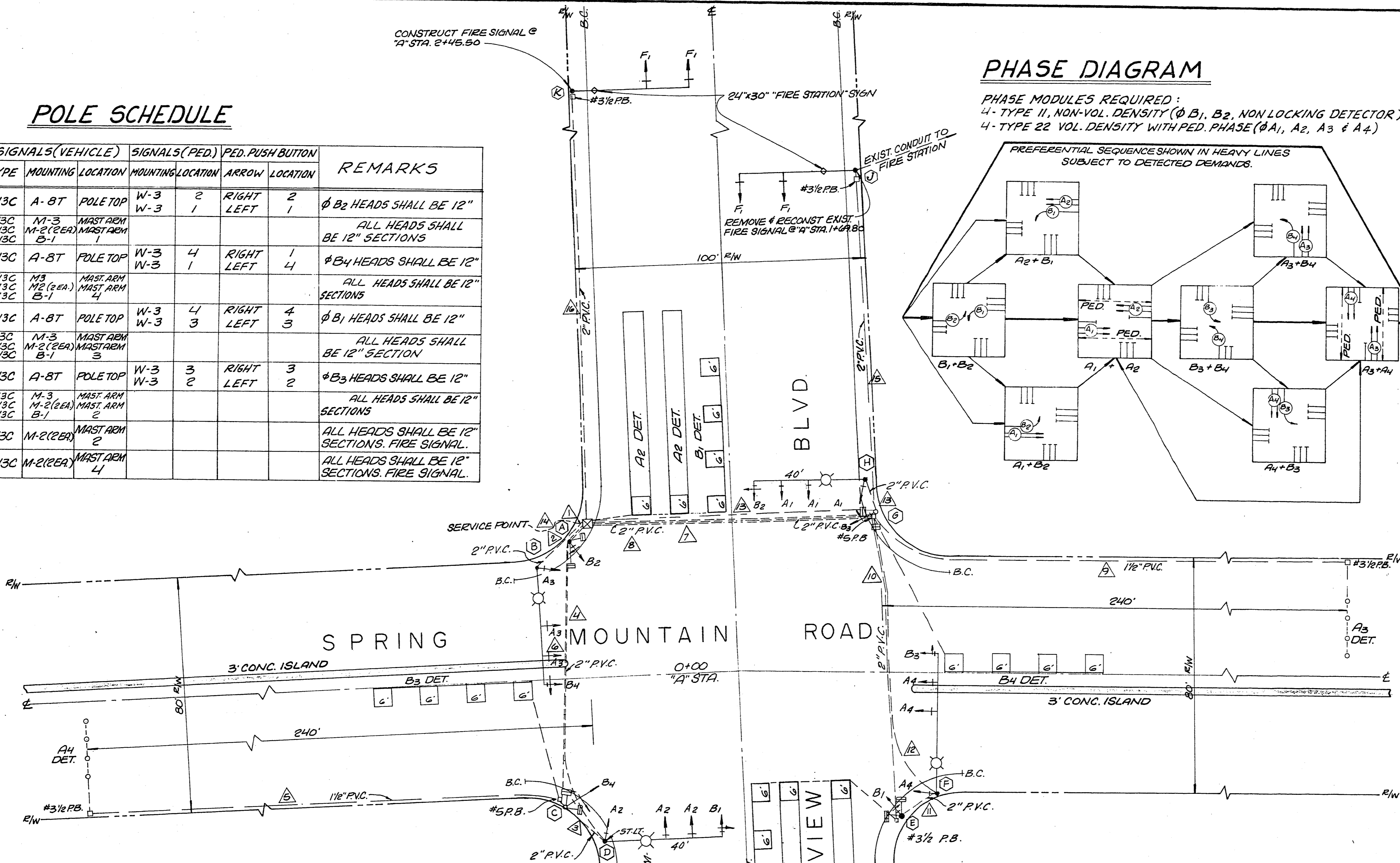
### PHASE DIAGRAM

PHASE MODULES REQUIRED:  
 4- TYPE II, NON-VOL. DENSITY (φ B<sub>1</sub>, B<sub>2</sub>, NON LOCKING DETECTOR)  
 4- TYPE 22 VOL. DENSITY WITH PED. PHASE (φ A<sub>1</sub>, A<sub>2</sub>, A<sub>3</sub> & A<sub>4</sub>)



### GENERAL NOTES

- LOOP DETECTOR LEADS SHALL BE A ONE TWISTED PAIR OF #14 AWG CABLE (I.M.S.A. SPEC. 20-2)
- A.C. SERVICE SHALL BE 4-NO. 8 THW CONDUCTORS (3 BLACK & 1 WHITE).
- INTERSECTION LIGHTING CIRCUITS SHALL BE 2 (TWO) NO. 10 CONDUCTORS WITH A 10 AMP (PLUG-IN TYPE) IN LINE FUSE HOLDER LOCATED IN CONTROLLER CABINET FOR EACH LUMINAIRE.
- SIGNAL CABLE SHALL BE #14 AWG OR 20 CONDUCTOR CABLE AS SHOWN (I.M.S.A. SPEC. 20-1).
- B-117 VEHICLE HEADS SHALL HAVE 12" GREEN ARROW IN PLACE OF 8" GREEN BALL.
- LOOPS TO BE LOCATED BY THE ENGINEER IN THE FIELD.
- MAGNETOMETER HEADS SHALL HAVE 50' OF LEAD-IN CABLE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO EXISTING UNDERGROUND UTILITIES.
- THE CONTRACTOR SHALL INSTALL ALL WIRE AND CABLE TERMINAL TO TERMINAL WITH NO SPLICING OTHER THAN LOOP LEAD-IN AND MAGNETOMETER LEADS IN PULL BOX ADJACENT TO ROADWAY (THEY SHALL BE SOLDERED).
- MAGNETOMETER CABLE SHALL BE 4-22 AWG CABLE BELDEN 8723, OR EQUIVALENT.
- EACH LOOP SHALL HAVE ITS OWN AMPLIFIER & CABLE.
- ALL LOOP LEADS & MAGNETOMETER LEADS SHALL BE SOLDERED.
- BREAKERS: 60 AMP SINGLE POLE FOR SIGNAL. 40 AMP TWO POLE FOR STREET LIGHTS.
- P.V.C. COATED STEEL CONDUIT SHALL BE USED FOR ALL CONDUIT BENDS.
- F. HEADS ON POLE J SHALL HAVE 3 PIECE LOUVRES INSTALLED TO INSURE GREEN OUT-OFF NORTH OF CENTER-LINE OF SPRING MOUNTAIN.
- CONTROLLER TO INCORPORATE FIRE PRE-EMPT, ADJUSTABLE FROM 10 TO 120 SECONDS. PRE-EMPT TO SEQUENCE FROM ANY PHASE TO YELLOW TO ALL RED EXCEPT PHASE A<sub>2</sub> WHICH SHALL INDICATE GREEN.



NOTE: SEE SHEET 45 FOR SPRING MOUNTAIN RD. IMPROVEMENTS, CONC. ISLAND DETAIL & END OF MEDIAN LIGHT DETAIL.

### CONDUIT CONDUCTOR SCHEDULE

CABLE NO. CONDUCTORS AND SIZE	FROM	TO	IN CONDUIT NO.														
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
10 COND. #14 AWG	CONTROLLER	POLE A	X														
20 COND. #14 AWG	CONTROLLER	POLE B		X													
10 COND. #14 AWG	CONTROLLER	POLE C			X												
20 COND. #14 AWG	CONTROLLER	POLE D				X											
2-MASS CABLES	CONTROLLER	#3 1/2 P.B.					X	X									
1-LOOP CABLE	CONTROLLER	#5 P.B.							X								
10 COND. #14 AWG	CONTROLLER	POLE G								X							
2-MASS CABLES	CONTROLLER	#3 1/2 P.B.						X	X								
10 COND. #14 AWG	CONTROLLER	POLE K															X
1-LOOP CABLE	CONTROLLER	#5 P.B.									X						
20 COND. #14 AWG	CONTROLLER	POLE H														X	
20 COND. #14 AWG	CONTROLLER	POLE F								X			X				
10 COND. #14 AWG	POLE F	POLE E												X			
2-LOOP CABLES	CONTROLLER	#3 1/2 P.B.										X					
FIRE PRE-EMPT	CONTROLLER	POLE J														X	X
2-#10 THW	CONTROLLER	LUMIN. POLE B		X													
2-#10 THW	CONTROLLER	LUMIN. POLE D			X												
2-#10 THW	CONTROLLER	LUMIN. POLE F								X			X				
2-#10 THW	CONTROLLER	LUMIN. POLE H									X						
4-#8 THW	CONTROLLER	A.C. SERVICE														X	X
10 COND. #14 AWG	CONTROLLER	POLE J														X	X

### LEGEND

- 400 W. HIGH PRESSURE SODIUM LUMINAIRE
- MAST ARM SIGNAL WITH LOUVERED BACKPLATE
- SIGNAL HEAD
- SIGNAL HEAD WITH BACKPLATE
- SIGNAL HEAD (3 SECTION) WITH LEFT TURN ARROW CALL HEADS 12"
- PEDESTRIAN SIGNAL (WALK - DON'T WALK)
- MAGNETOMETER DETECTORS
- LEFT TURN DETECTOR LOOP
- PULL BOX
- CONTROLLER CABINET
- CONDUIT (P.V.C.)
- BACK OF CURB
- PROPERTY LINE
- IN CONDUIT NO.

CONTRACT DRAWING  
MAY 3 1974

REVISIONS		
REV.	DATE	DESCRIPTION

**DELTA** ENGINEERING INC. 4239 W. SAHARA AVE. LAS VEGAS, NEV. 89102 PHONE: (702) 876-0330

**VALLEY VIEW BLVD.**  
 SPRING MOUNTAIN ROAD INTERSECTION  
 TRAFFIC SIGNAL DETAILS

H. SCALE: 1"=20'	V. SCALE: NONE	DES: E.M.	DWG. NO. 107-V926
WO. NO. 71102	CHK'D	DWN. E.C.	FILE NO.
APPROVED:	DATE:	SHEET	OF
		43	45

ORIG. TRAFFIC ENG. FILE - 208