

DRAWING NUMBER
B210

DRAWING NUMBER
B210

DRAWING NUMBER
B210

DRAWING NUMBER
B210

CONDUCTOR SCHEDULE

AWG	CIRCUIT	1	2	3	4	5	6	7	8	9
#14	PA	3	3	3	3	3	3	3	3	3
	PA+C	—	—	—	—	—	—	—	—	—
	PB	—	3	3	3	3	3	3	3	3
	PC	—	—	—	3	3	—	—	—	—
	PA Ped.	2	2	2	2	2	2	2	2	2
	PB Ped.	—	—	—	—	—	—	—	—	—
	PA PPB	—	1	1	1	1	—	1	1	2
	PB PPB	—	—	—	1	1	—	—	—	—
	SPARES	3	3	3	3	3	3	3	3	3
	PPB COMMON	—	1	1	1	1	—	1	1	2
	RT TURN ARROWS PC	—	—	—	—	—	—	2	2	2
	ILLUMINATED SIGNS	1	1	1	1	1	1	1	1	2
	TOTAL	4	14	15	20	20	9	10	10	41
#10	LUMINAIRES	2	2	2	2	—	—	2	2	2
	SIG. & SIGN COMMON	1	1	1	1	—	—	1	1	2
	TOTAL	3	3	3	3	—	—	3	3	4
MAGNETO-METER DETECTOR CABLE	DETS. 1-A, 2-A, 3-A	—	—	—	—	3	3	3	3	3
	DETS. 1-B, 2-B, 3-B	—	—	—	—	4	—	—	—	4
	TOTAL	—	—	—	—	7	3	3	3	7
LOOP DETECTOR CABLE	DETS. 1-A, 2-A, 3-A	—	3	3	3	—	—	—	—	3
	DETS. 1-B, 2-B, 3-B	—	—	—	—	—	—	3	3	3
	DET. 1-C	—	—	—	—	—	1	1	1	1
	TOTAL	—	3	3	3	—	1	4	4	7
INTERCONNECT CABLE	1" C, 3 MAGNETOMETER CABLE	1	1	—	—	—	—	—	—	1

* INSTALL IN NEW 1" C. (R/W 12)

NOTES THIS SHEET:

- FOR GENERAL NOTES SEE SHEET 5 OF 10.
- AT POLE POSITION ③ & ⑦ SALVAGE EXIST. TYPE III STANDARDS AND MAST ARMS AND REMOVE FOUNDATIONS. RELOCATE LUMINAIRES, VEHICLE & PEDESTRIAN SIGNAL HEADS AND PED. PUSH BUTTON ASSEMBLIES TO NEW STANDARDS.
- ① MODIFY ALL PEDESTRIAN SIGNAL HEADS TO LUNAR WHITE & PORTLAND ORANGE. (TYPE III SEE SPECIAL PROVISIONS)
- AT POLE POSITION ⑥ MODIFY EXISTING VEHICLE SIGNAL HEAD BY REPLACING 8" GREEN BALL SECTION WITH 12" LEFT GREEN ARROW SECTION & INSTALL LOUVERS IN THE 8" RED & YELLOW SECTIONS.
- INSTALL A 3 PHASE CONTROLLER (EXHIBIT 10 & 4 PHASE OPERATION) SIMILAR TO TYPE 10 CONTROLLER SPECIFICATIONS. INSTALL DETECTOR SENSORS & COORDINATION EQUIPMENT AS REQUIRED, IN A TYPE "P" CABINET. CABINET SHALL BE WIRED TO PROVIDE TYPE 90 OPERATION FROM A REMOTE SOURCE VIA DIRECT INTERCONNECT TO THE MASTER COMPUTER. (SEE SPECIAL PROVISIONS)
- INSTALL TYPE II SERVICE WITH TYPE III (B) METER AND SWITCH WIRING.
- NEW CONDUCTORS SHALL BE INSTALLED THROUGHOUT.
- ALL EXIST. LUMINAIRES HAVE INTEGRAL BALLASTS.
- INSTALL TYPE I PHOTO-ELECTRIC CONTROL UNIT TO CONTROL ALL LUMINAIRES AT THIS INTERSECTION ON POLE ⑦, PER STANDARD PLAN ES-6C-2 (DETAIL J).
- AT POLE POSITION ③ & ⑦ THE TYPE III AND THE TYPE III SHALL BE AS SHOWN ON CALIFORNIA STANDARD PLAN ES-6B-2 EXCEPT THAT THE POLE SHALL BE STRUCTURALLY CAPABLE OF SUPPORTING THE INTENDED LOAD WITHOUT THE USE OF THE LOWER SIGNAL ARM SUPPORT SHOWN IN THE DETAIL. (SEE SPECIAL PROVISIONS)
- INSTALL 15 AMP CIRCUIT BREAKER FOR ILLUMINATED SIGNS ON LINE SIDE OF SIGNAL CIRCUIT MAIN BREAKER IN CONTROLLER CABINET & LABEL "ILLUMINATED SIGNS."
- INSTALL SPECIAL LIGHTWEIGHT ILLUMINATED STREET NAME SIGNS. SEE SPECIAL PROVISIONS.

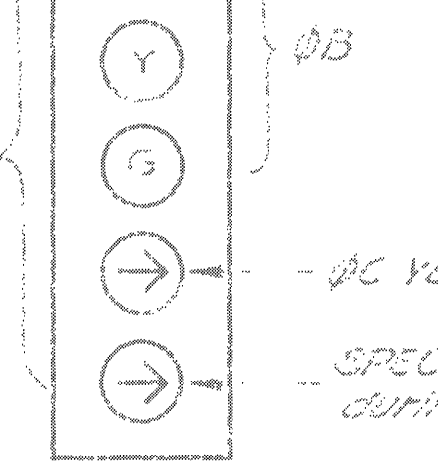
CHECKED BY	DATE	SUBMITTED BY	DATE	APPROVAL RECEIVED	DATE
Watson	9/73	Carl R. R.	1/73	B. N. Clark	10/73

THIS PLAN ACCURATE FOR SIGNALS & LIGHTING ONLY

ORA 7 5 PM

PHASE - SEQUENCE - MODULE DIAGRAM

VEHICULAR & PEDESTRIAN MOVEMENTS PER MODULE	A	B	C
MODULE PHASE DESIGNATION	SP	SP	S
MODULE TYPE (LOCAL CONTROL)	SP	SP	S
COORDINATED FUNCTION	NON-ACT	ACTUATED	ACTUATED



DETAIL "A"

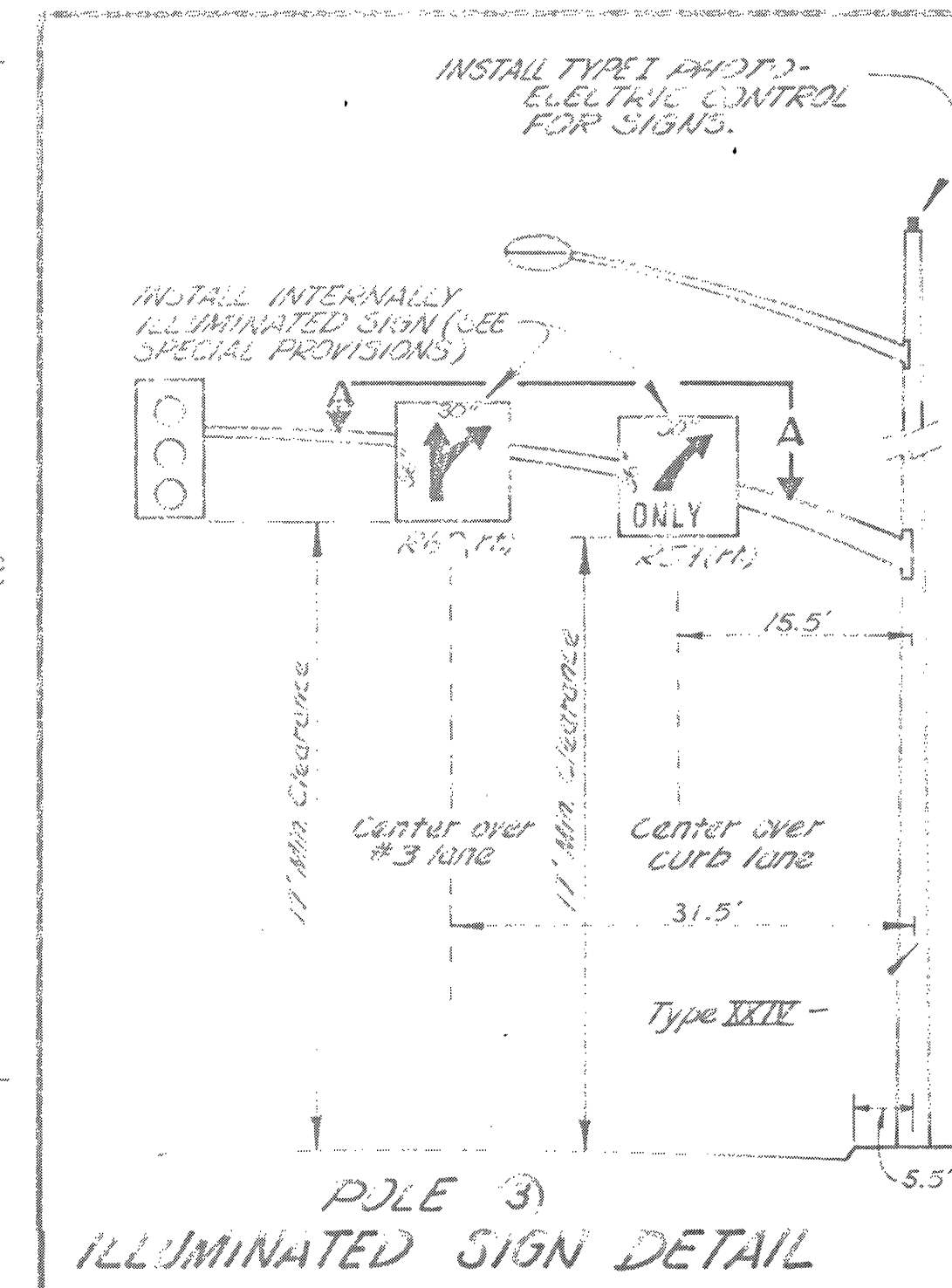
MAGNETOMETER DETECTOR SCHEDULE

SENSOR UNIT	CHANNEL	DETECTOR
#1	A	1-S-A
#2	B	2-S-A
#3	A	3-S-A
#4	A	1-N-A *
#5	B	2-N-A *
#6	A	3-N-A *
#7	B	4-N-A *

* THESE DETECTORS, IN ADDITION TO THEIR NORMAL FUNCTION, SHALL OPERATE AS SUB-SAMPLING DETS. FOR THE MASTER COMPUTER.

INDUCTIVE LOOP DETECTOR SCHEDULE

SENSOR UNIT	CHANNEL	DETECTOR
#1	A	1-N-B
#2	B	2-N-B
#3	A	3-N-B
#4	A	1-E-B
#5	B	2-E-B
#6	A	3-E-B
#7	B	1-L



POLE 3 ILLUMINATED SIGN DETAIL

SECTION A-A

POLE	TYPE	LENGTH	SIGNAL M.A.	LUM. M.A.	SIGNAL MOUNTING	PPB TYPE	PPB PHASE
1	XIII (E)	28' 6"	18' (E)	12' (E)	51' (E) M-10	B (N)	A
2	I-A (E)	10'	—	—	41' (E) —	—	—
3	XIII (N)	30'	35' (N)	15' (N)	54' (R) M-2 (N) W-0 (R)	—	—
4	I-A (R)	10'	—	—	41' (R) —	B (N)	A
5	XIII (E)	28' 6"	18' (E)	12' (E)	51' (E) M-10	B (N)	A
6	I-A (E)	10'	—	—	41' (E) —	—	—
7	XIII (N)	30'	35' (N)	15' (N)	54' (R) M-2 (N) W-0 (R)	B (N)	B
8	I-A (E)	10'	—	—	41' (E) —	—	—

(E) = EXISTING
(N) = NEW
(R) = RELOCATE

* = NOTE 10

PREPARED UNDER THE SUPERVISION OF
HILBERT WILLIAM DICKSON R.C.E. No. 13417
TRAFFIC ENGINEERING CONSULTANTS
Herman Kimmel and Associates, Inc.
4242 CAMPUS DRIVE, SUITE 600, ANAHEIM BEACH, CALIF. 92610
(714) 545-9914

DATE	BY	DESCRIPTION	APPROVED	DESIGNED	CHECKED	DATE

LOCATION "C"
ORANGE COUNTY ROAD DEPARTMENT
EL TORO ROAD
BRIDGER ROAD
TRAFFIC SIGNAL
MODIFICATION PLAN
SCALE: 1" = 20' SHEET 7 OF 11
DR. 4-11340