

CITY OF TUSTIN

PLANS FOR THE MODIFICTION OF

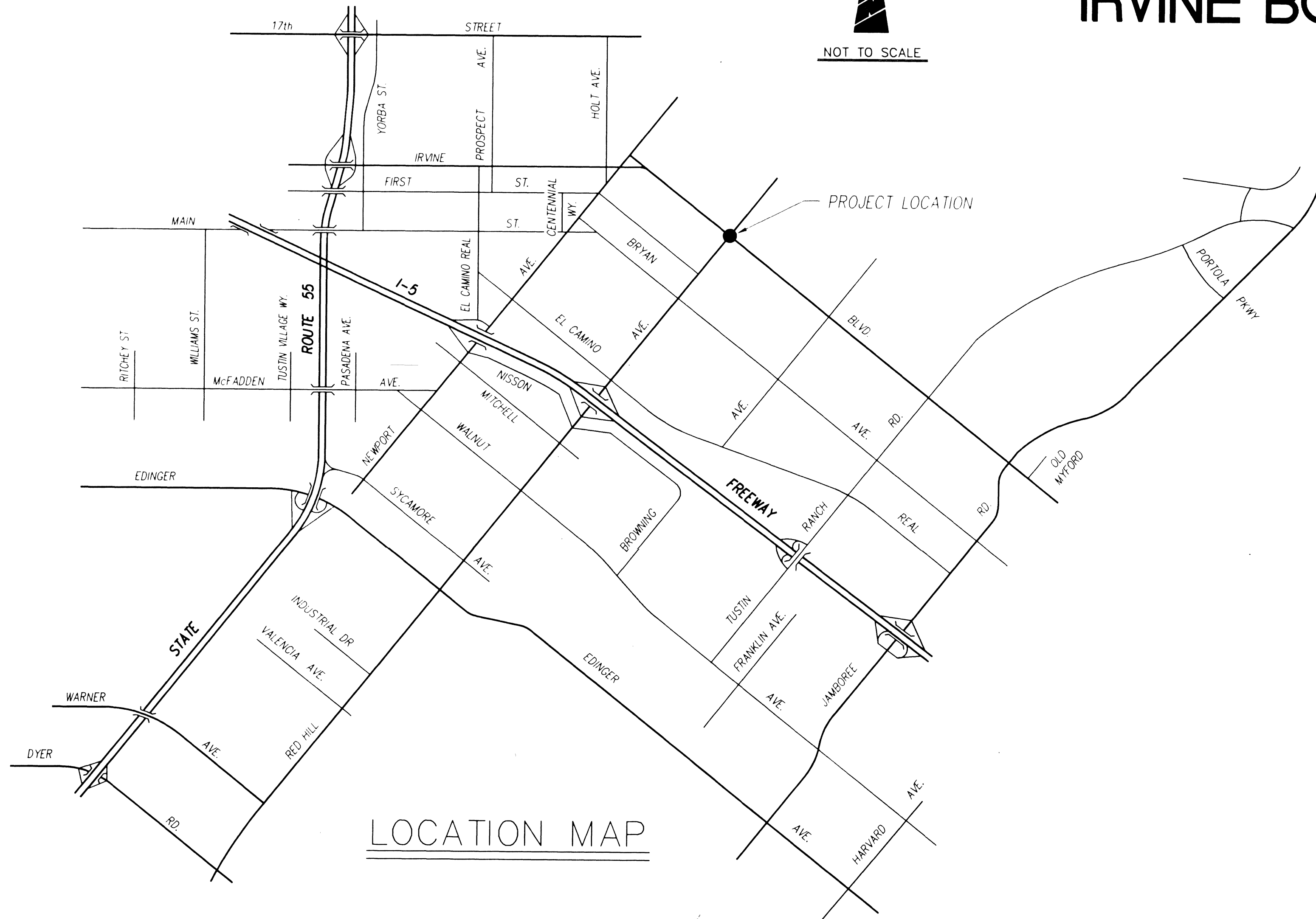
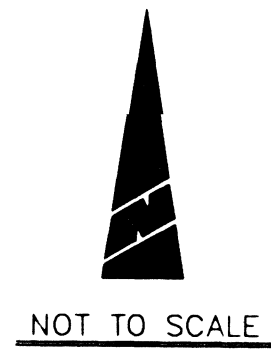
TRAFFIC SIGNAL

AT

RED HILL AVENUE

AND

IRVINE BOULEVARD



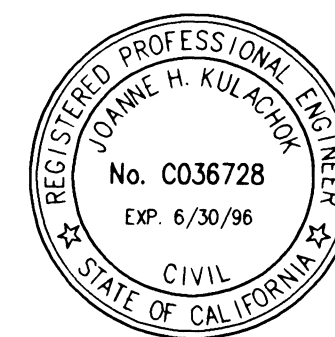
LOCATION MAP

SHEET INDEX

- No. SHEET
1 TITLE SHEET
2 TRAFFIC SIGNAL AND SAFETY LIGHTING

MODIFIED UNDER AGREEMENT D93-184

BSI CAD FILE: \$IRVHLTS.dwg



COUNTY OF ORANGE
REVIEWED BY:
I.G. OCHOA
COUNTY TRAFFIC ENGINEER
DATE: 2/1/94

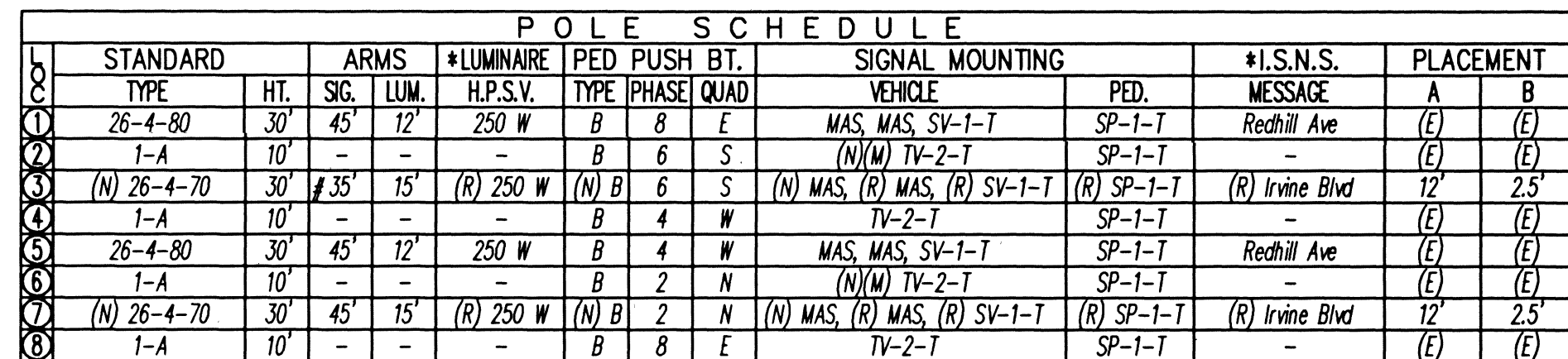
CITY OF TUSTIN, CALIFORNIA DEPARTMENT OF PUBLIC WORKS		PREPARED BY: BSI BSI Consultants, Inc. 2001 E. 1st Street Santa Ana, CA 92705 (714) 568-7300	
APPROVED BY: RCE# 15349 EXP. 3-31-97 DATE		CONSTRUCTION PLANS FOR: TRAFFIC SIGNAL AND SAFETY LIGHTING	
CITY ENGINEER		LOCATION: TITLE SHEET	
PREPARED UNDER SUPERVISION OF: RCE# C036728 EXP. 6-30-96 DATE		DESIGN BY: MH SHEET 1 DRAWN BY: MH OF 2 CHECK BY: RK DRAWING NO.:	
WATER SERVICES DIVISION APPROVAL: DATE			

DETECTOR SCHEDULE			
SENSOR	CHANNEL	DETECTOR	CONTROL INPUT
1	1	1-E-01	3
	2	2-E-01	4
2	1	1-E-06	5
	2	2-E-06	2
3	(f) 1	1-E-06	7
	2	2-E-06	8
4	1	1-W-05	5
	2	2-W-05	6
5	1	1-W-02	11
	2	2-W-02	12
6	(f) 1	3-W-02	9
	2	4-W-02	10
7	1	1-N-03	15
	2	2-N-03	16
8	1	1-N-03	13
	2	2-N-03	14
9	1	3-N-05	19
	2	SPARE	20
10	1	1-S-07	17
	2	2-S-07	18
11	(f) 1	3-S-07	23
	(f) 2	4-S-07	24
12	1	1-S-04	21
	2	2-S-04	22
13	1	3-S-04	27
	2	4-S-04	28
14	(f) 1	5-W-02	25
	(f) 2	5-E-06	26

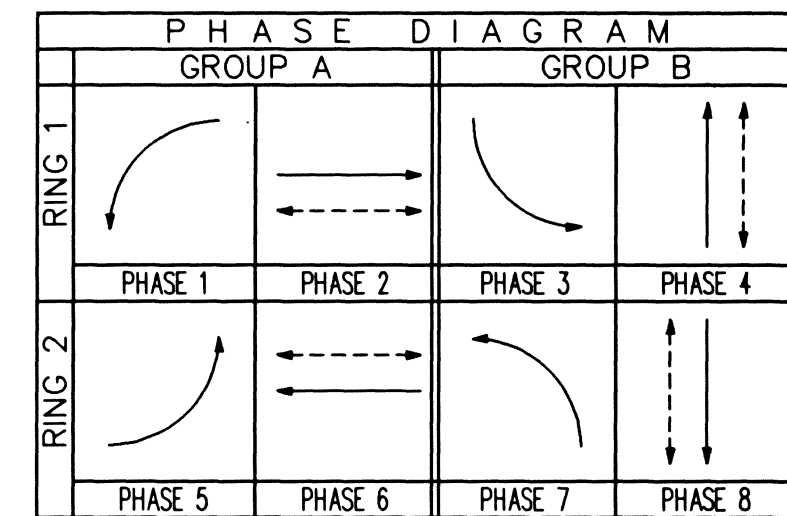
(f) = FOR FUTURE USE.

* 2 DLC. FOR FUTURE USE.

3- EXISTING 2" CONDUIT



STANDARD PLACEMENT
DETAIL



1. TRAFFIC SIGNAL AND LIGHTING SHALL CONFORM TO CALTRANS STANDARD SPECIFICATIONS SECTION 86 AND CALTRANS STANDARD PLANS (DATED JULY 1992).
2. ALL VEHICLE INDICATIONS SHALL BE 12", PULLBOXES No. 5 AND CONDUIT 2" RIGID METAL EXCEPT AS SHOWN.
3. ALL SALVAGED MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR EXCEPT CONTROLLER EQUIPMENT.
4. ALL NEW LOOPS SHALL BE 6' x 6' WITH 10' SPACING IN THE DIRECTION OF TRAVEL AND CENTERED IN THE LANE EXCEPT AS SHOWN. EXTEND LIMIT LINE LOOPS 1' PAST LIMIT LINE. 6" DIAMETER ROUND LOOPS WITH 8' SPACING IN THE DIRECTION OF TRAVEL MAY BE SUBSTITUTED IN LIEU OF 6' x 6' LOOPS.
5. LOCATION OF ALL UNDERGROUND UTILITIES ARE APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATIONS AND VERIFY ALL CONDITIONS ON THE JOB SITE. HAND DIG FOUNDATIONS UNTIL CLEAR OF OBSTRUCTIONS. PHONE UNDERGROUND SERVICE ALERT AT 800-422-4133. POT HOLING REQUIRED FOR UTILITIES SHOWN OR NOT SHOWN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND COST FOR SAME SHALL BE INCLUDED IN THE CONTRACT BID PRICE.
6. OBTAIN APPROVAL FOR EXACT EQUIPMENT LOCATIONS PRIOR TO FINAL PLACEMENT.
7. ALL SIDEWALK REPLACEMENT SHALL BE FULL WIDTH AND AT A LENGTH NOT LESS THAN 3 LINEAL FEET. IN NO CASE SHALL A SIDEWALK SECTION REMAIN WHICH HAS A LENGTH LESS THAN 3 LINEAL FEET WHEN MEASURED TO THE NEAREST JOINT.
8. CONTRACTOR SHALL INSTALL NECESSARY SIGNAL FRAMEWORK AND I.S.N.S. MOUNTING HARDWARE FOR REUSED EQUIPMENT.
9. ALL EXISTING SIGNAL HEADS, BACKPLATES, P.P.B. AND FRAMEWORKS SHALL BE REPAINTED THE SAME COLOR.
10. INSTALL ALL NEW CONDUCTORS PER CONDUCTOR SCHEDULE.
11. ALL R73 TYPE SIGNS ARE TO HAVE HIGH INTENSITY REFLECTIVE SHEETING WITH PROTECTIVE OVERLAY FILM.
12. INTERCONNECT CABLE SHALL BE REA PE 22 WITH #22 AWG CONDUCTORS AND SHALL BE INSTALLED CONTINUOUSLY BETWEEN CONTROLLER CABINETS WITHOUT SPLICING.

- 1 INSTALL TYPE 90 SYSTEM CONTROLLER (ECONOLITE ASC/2-2100) AND APPURTENANCES IN TYPE "A" ALUMINUM CABINET. SET TOP OF FOUNDATION AT 18" ABOVE GRADE WITH CABINET DOOR ON STREET SIDE.
- 2 REMOVE EXISTING TYPE II SERVICE AND INSTALL NEW TYPE III SERVICE WITH 50 AMP METERED SIGNAL CIRCUIT, 15 AMP METERED I.S.N.S. CIRCUIT AND 30 AMP UNMETERED LIGHTING CIRCUIT. PROVIDE TWO TYPE V PHOTOELECTRIC CONTROLS, ONE FOR LUMINAIRE AND ONE FOR I.S.N.S.
- 3 REMOVE EXISTING 6 PAIR #22 CABLE AND INSTALL NEW 6 PAIR #19 CABLE FROM IRVINE/CHARLOMA CONTROLLER ON N/E CORNER TO NEW CONTROLLER LOCATION ON S/W CORNER AT THIS INTERSECTION. (1225± CL TO CL). TERMINATE AS DIRECTED BY THE ENGINEER.
- 4 REMOVE EXISTING TYPE 5 PULLBOX AND INSTALL NEW TYPE 6 OR 6E PULLBOX IN SAME LOCATION, PER PLAN.
- 5 REMOVE EXISTING 12" R.Y. & G. BALL LENSES AND INSTALL NEW ARROW LENSES.
- 6 INSTALL R73-3 SIGN PER STATE STANDARD PLAN ES-6T, DETAIL U.
- 7 INSTALL R73-2 SIGN PER STATE STANDARD PLAN ES-6T, DETAIL U.
- 8 REMOVE EXISTING CURB RAMP AND INSTALL NEW CURB RAMP PER OCEMA STANDARD PLAN No. 102-0-OC.
- 9 REMOVE EXISTING CURB RAMP AND INSTALL NEW CURB RAMP PER CITY STANDARD PLAN No. 124.
- 10 REMOVE ALL PROGRAMMING TAPE FROM P.V. VEHICLE INDICATIONS.
- 11 PROVIDE AND INSTALL DETECTOR LOOP AS INDICATED.



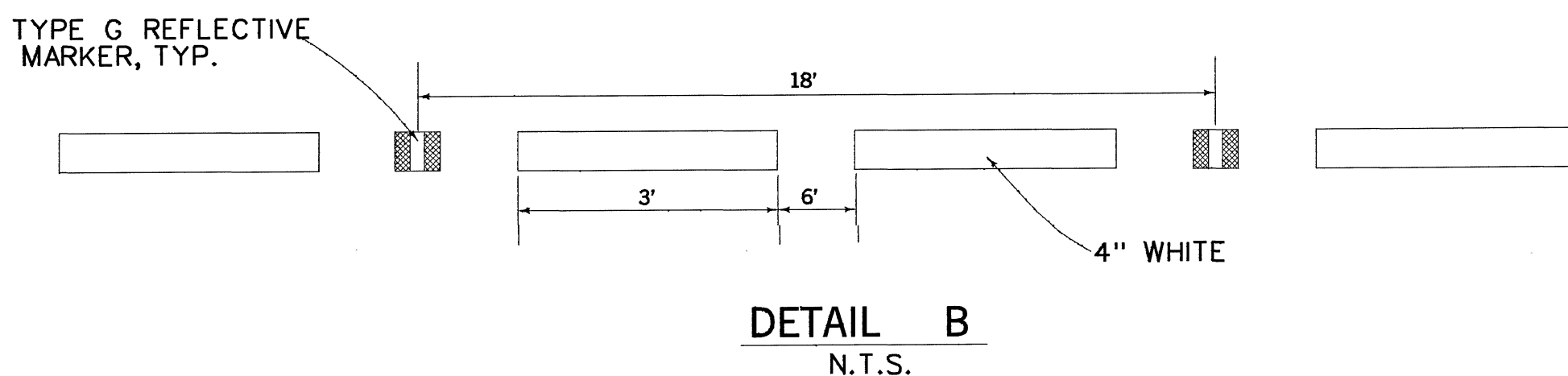
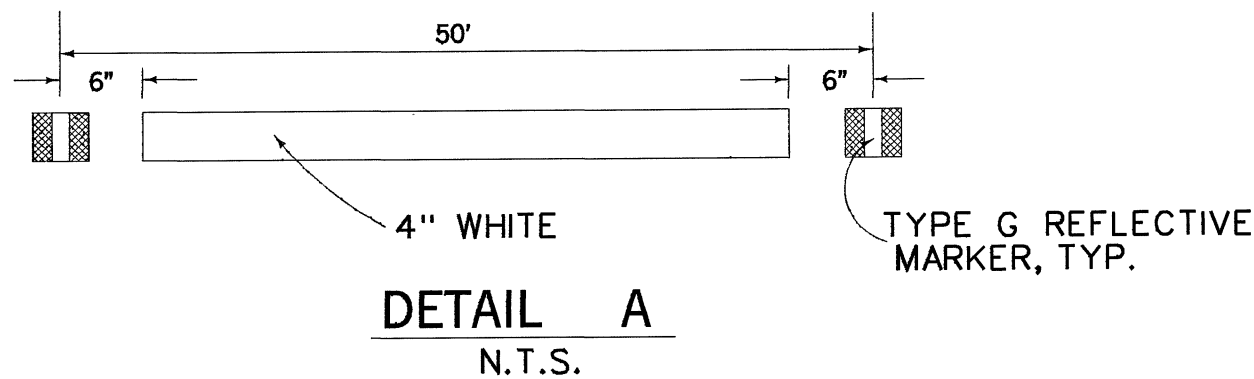
COUNTY OF ORANGE
REVIEWED BY: 
I.C. OCHOA
COUNTY TRAFFIC ENGINEER

2/1/94
DATE

[illegible]

STRIPING NOTES:

- 1 - PAINT.
- 2 - SANDBLAST STRIPING & REMOVE R.P.M.'s.
- 3 - INSTALL.
- 4 - STENCIL.
- 5 - REMOVE AND SALVAGE.
- 6 - RELOCATE.
- 7 - REPLACE.
- 8 - PROTECT IN PLACE.
- 9 - 4" DASH WHITE, TRAFFIC MANUAL DETAIL 9.
- 10 - 4" SOLID WHITE PER DETAIL A.
- 11 - 4" DOUBLE SOLID YELLOW, TRAFFIC MANUAL DETAIL 22.
- 12 - 4" DOUBLE SOLID YELLOW, TRAFFIC MANUAL DETAIL 29.
- 13 - 4" SOLID WHITE RIGHT EDGELINE, TRAFFIC MANUAL DETAIL 27B.
- 14 - 6" DASH WHITE, TRAFFIC MANUAL DETAIL 39.
- 15 - 8" SOLID WHITE, TRAFFIC MANUAL DETAIL 38.
- 16 - 4" DASH WHITE LINE, TRAFFIC MANUAL DETAIL 40.
- 17 - 8" SOLID WHITE.
- 18 - 12" SOLID WHITE.
- 19 - 12" SOLID YELLOW.



1 1/2 0 2
3 inches on original drawing

PFRD/PROGRAM DEVELOPMENT
TRAFFIC ENGINEERING

APPROVED
I.G. OCHOA
COUNTY TRAFFIC ENGINEER
DATE 11/1/98

CITY OF TUSTIN

APPROVED FOR CONSTRUCTION IN THE CITY OF TUSTIN

DESIGNED
LABAD / J. SWATZEL
DATE 11/1/98
DRAWN
T.L.E.
CHECKED
LABAD

ORANGE COUNTY
PUBLIC FACILITIES & RESOURCES DEPARTMENT

SIGNING & STRIPING PLAN
RED HILL AVENUE
FR. MELVIN WAY TO CAMEO DR.

PREPARED UNDER
SUPERVISION OF
L. ABAD
DATE
SCALE
AS SHOWN
DATE
NOV. 98
W. O. NO.
ER03088
SHEET
1
OF 1