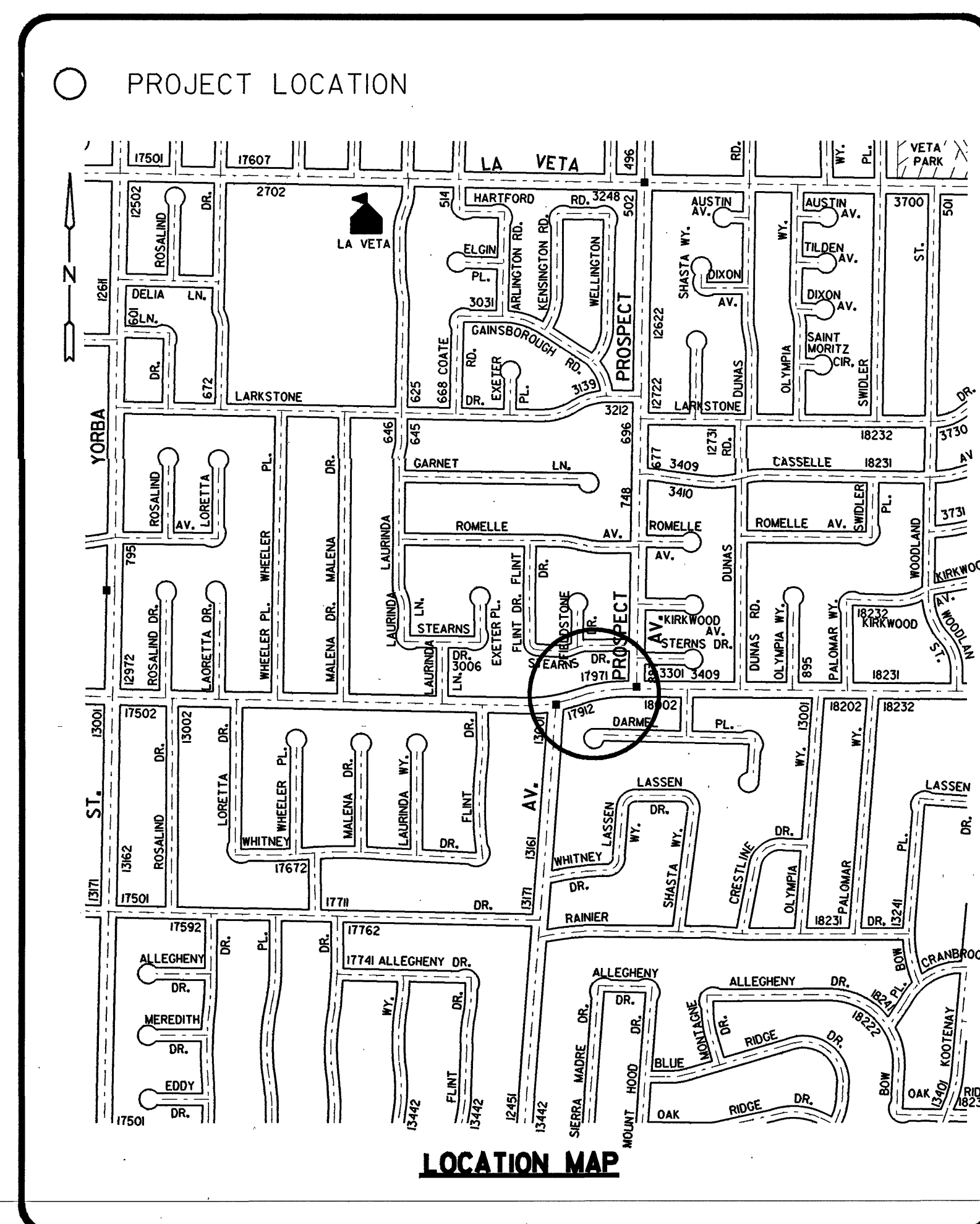
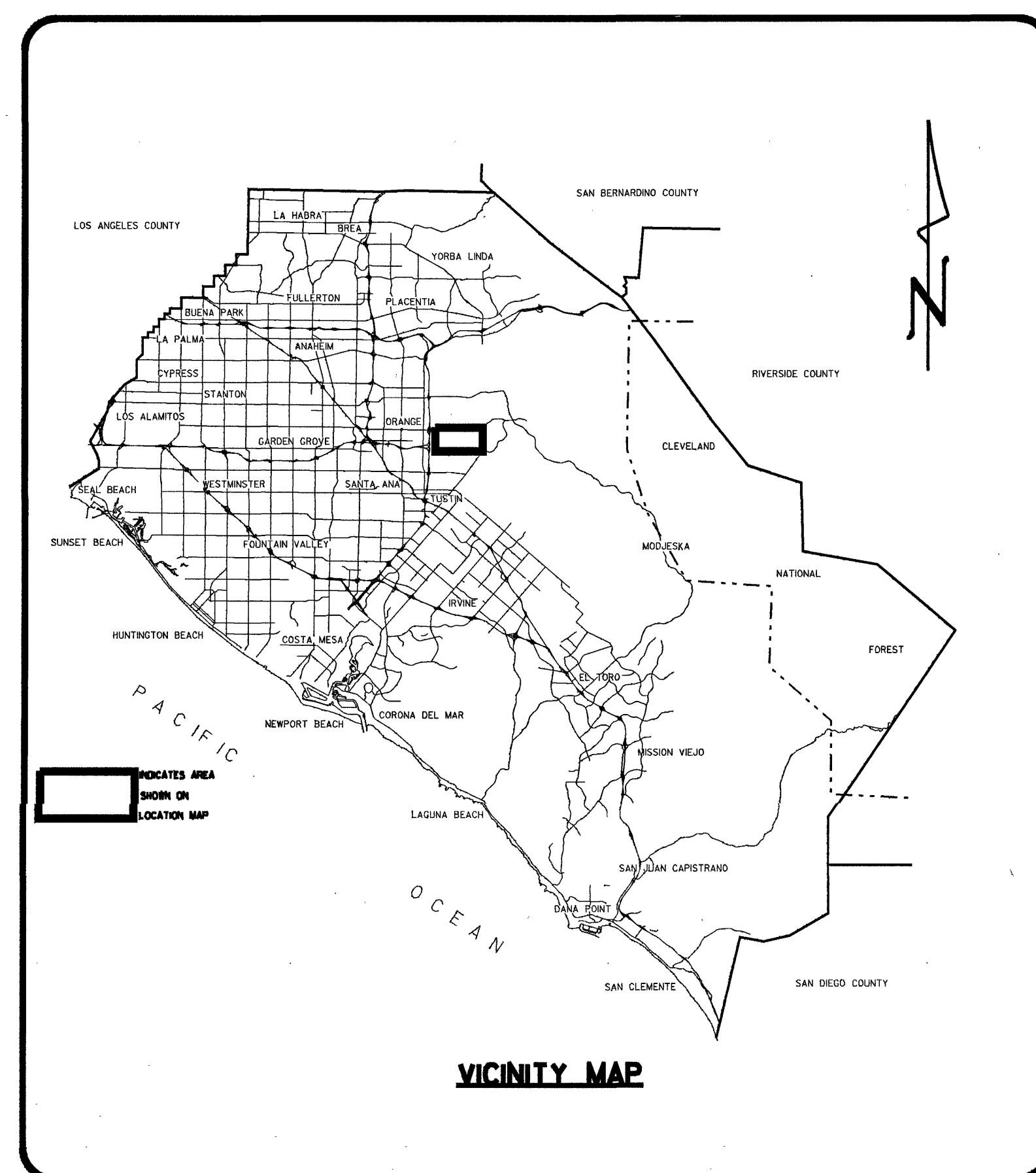




ORANGE COUNTY
ENVIRONMENTAL MANAGEMENT AGENCY

SANTA ANA, CALIFORNIA
M. RUANE, DIRECTOR

PLANS FOR CONSTRUCTION OF TRAFFIC SIGNAL AT

FAIRHAVEN AVENUE

AT

PROSPECT AVENUE

FEBRUARY 1993

FUNDED BY: ROAD FUNDS AND COOPERATIVE AGREEMENT NO. D91-148

CITY OF ORANGE

APPROVED:  1-13-93
CITY TRAFFIC ENGINEER DATE

APPROVED:  2-22-93
CITY ENGINEER DATE

E M A - T R A N S P O R T A T I O N

SUBMITTED: *Lance*  *12/31/92* DATE *12/31-96*

RECOMMENDED: *Lance*  *12/31/92* DATE *12/31-96*

APPROVED: *Lance*  *12/31/92* DATE *12/31-96*

<u>INDEX OF SHEETS</u>	
SHEET	DESCRIPTION
1	TITLE SHEET
2	SIGNAL PLAN
3	SIGNING AND STRIPING PLAN
4	DETAIL

UTILITY	OWNER	CONTACT	PHONE NO.
PACIFIC BELL		STEVE RANDALL	(714) 259-4473
SOUTHERN CALIFORNIA GAS COMPANY		JOE MORENO	(714) 634-3115
CONTINENTAL CABLEVISION OF SO. CA.		TONY FRANCO	(714) 731-0992
CABLE VISION OF ORANGE		BOB HAWKINS	(714) 771-3143
CITY OF TUSTIN WATER DEPT.		GARY VEEH	(714) 544-8890 x248
CITY OF ORANGE-PUBLIC WORKS		EDDIE MAKIMOTO	(714) 532-0356
CITY OF ORANGE-SANITATION SECTION		FERN JEFFERS	(714)532-0475
SANTA ANA FE PACIFIC PIPELINE		ROLAND KENNEDY	(714)538-5227
EAST ORANGE COUNTY WATER DIST.		DALE HEUERMAN	(714)538-5815
USA			1-800-472-4133

BENCH MARK:

BASIS OF BEARINGS

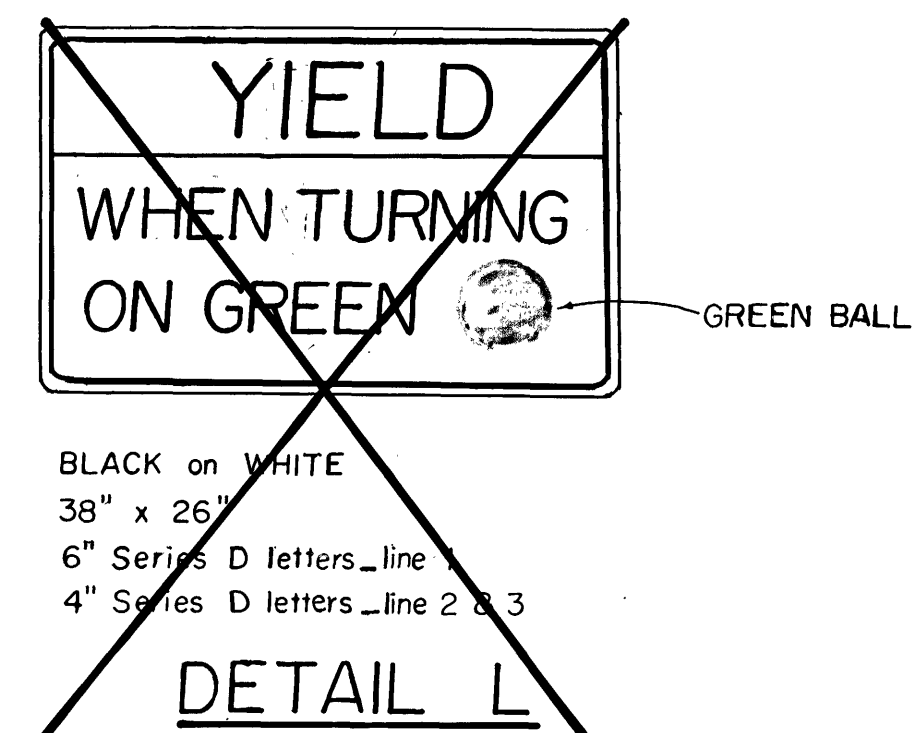
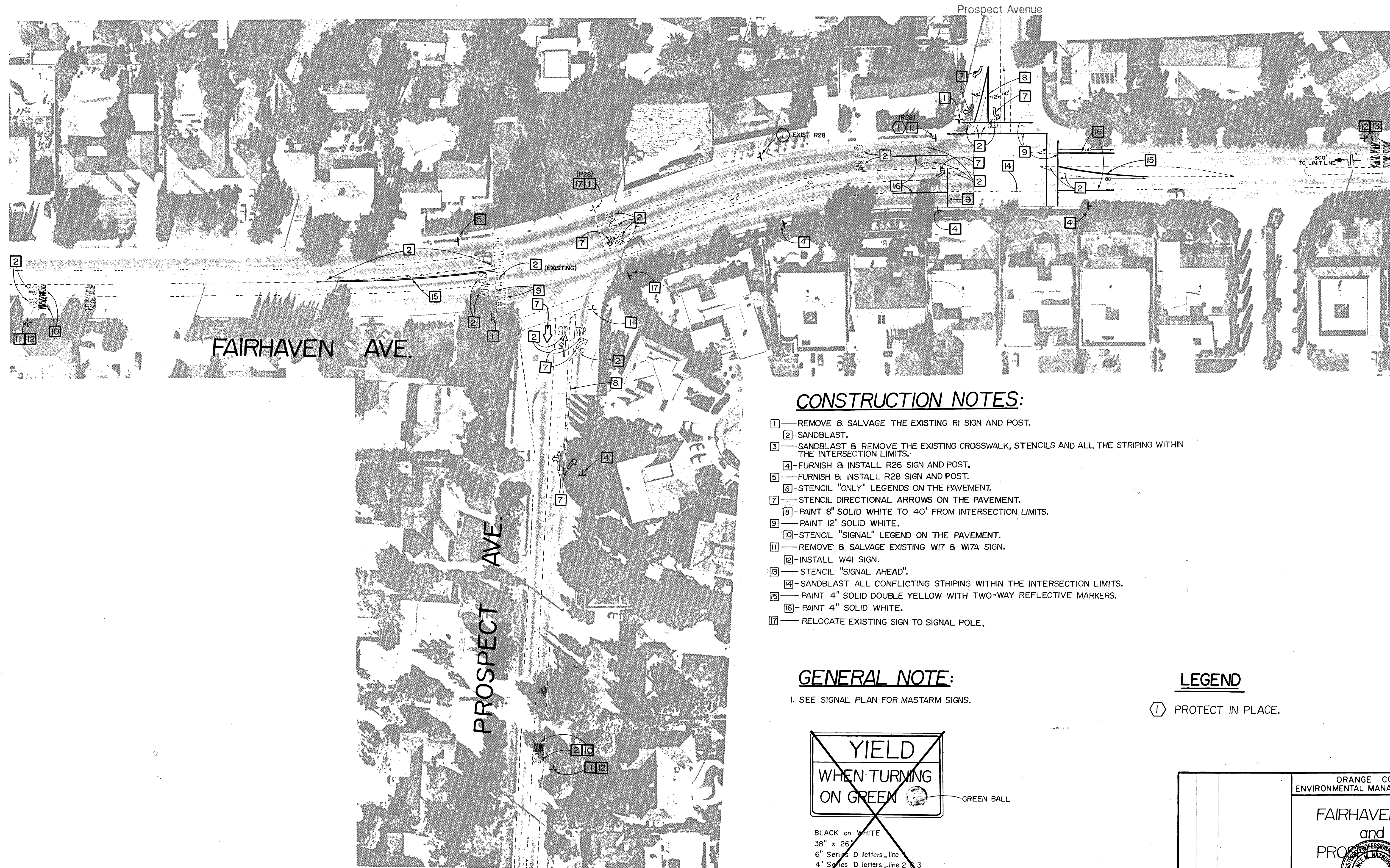
NO.	DESCRIPTION	SHT.	APPROVED	DATE

R E V I S I O N S

W. O. NO. R010089

SHEET 1 OF 4

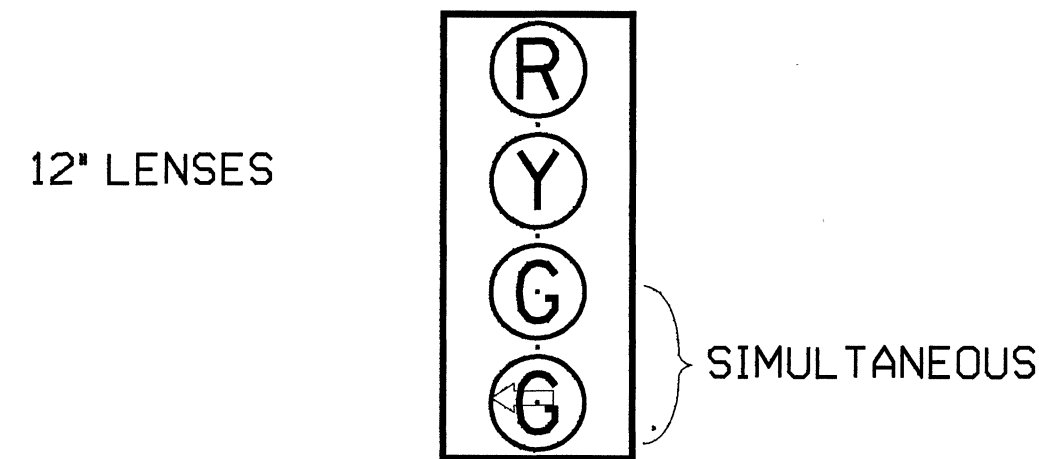
MARK	DATE	DESCRIPTION	PREPARED UNDER	DATE	SHEET
			OF 33196	23/1/92	2
REVISIONS			SUPERVISION OF	DATE	
DESIGNED	T. ABAD		SCALE	DATE	W. O. NO.
L. PHAM			AS SHOWN	FEB. 93	R10089
	NATSUJHARA				OF 4



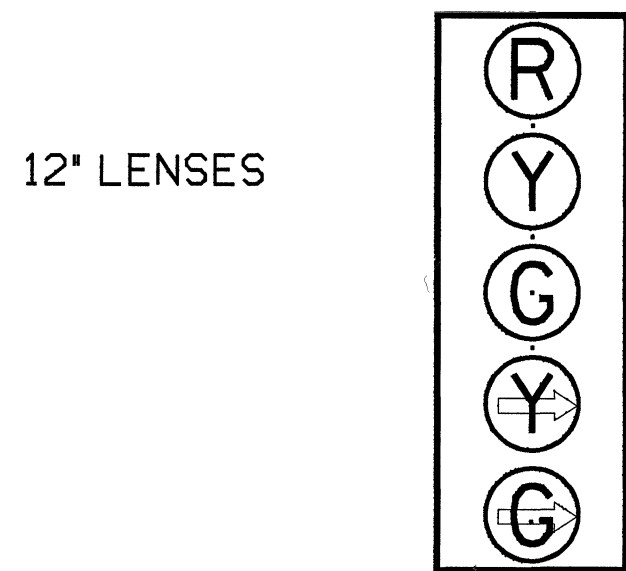
① PROTECT IN PLACE.

			ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY
			FAIRHAVEN AVE. and PROPOSED AVENUE.
			SIGNING  PLAN
MARK	DATE	DESCRIPTION	PREPARED UNDER SUPERVISION OF  SHEET
REVISIONS			DATE 3
DESIGNED	PAUL WANG	SCALE	DWG. NO.
DRAWN	P. WANG	1" = 40'	R10089
CHECKED	L. ABAD		OF 4

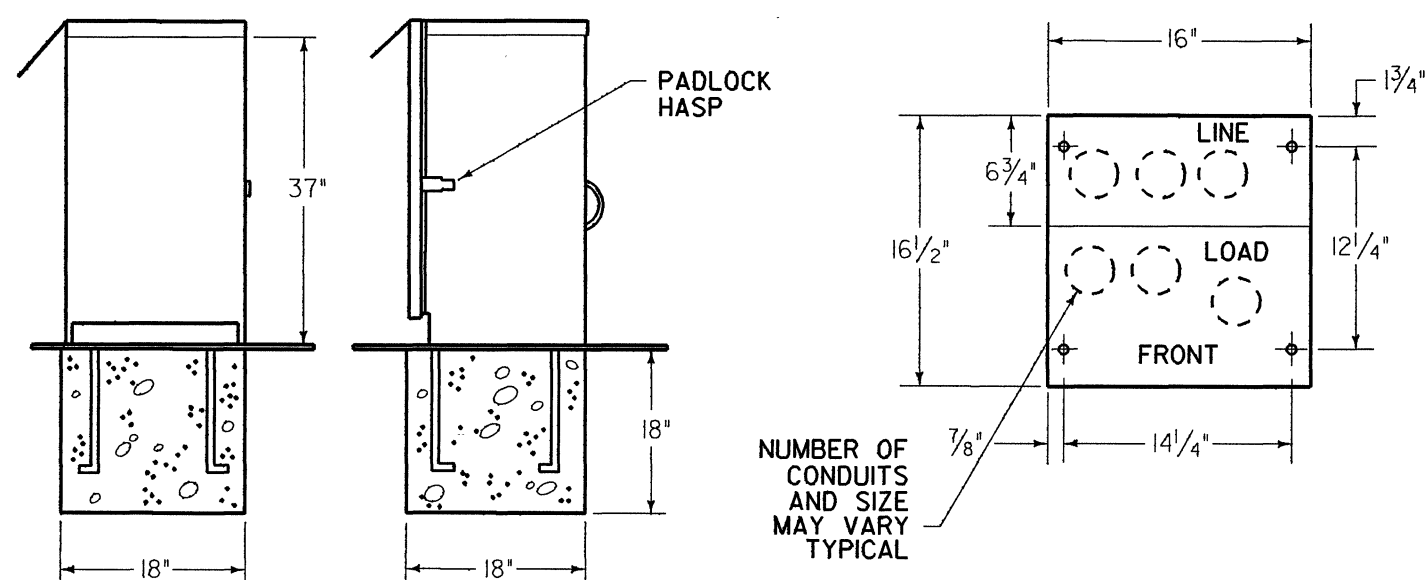
DETAIL A
4-SECTION SIGNAL HEAD



DETAIL E
5-SECTION SIGNAL HEAD

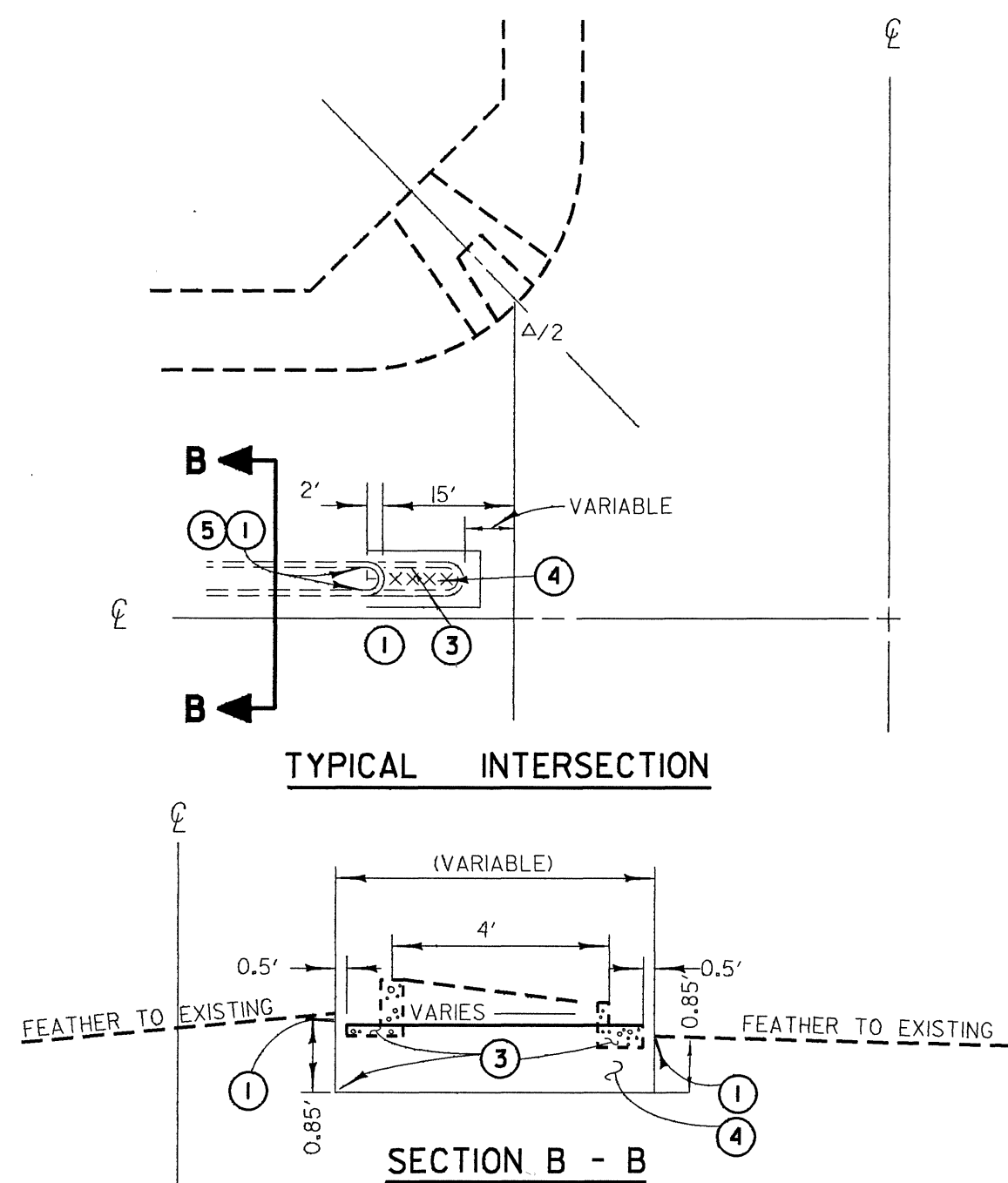


DETAIL F
INTERCONNECT SPICE CABINET



- FOUNDATION TO BE 18" X 18". BOLT CIRCLE PER MFG. TEMPLATE.
- ENCLOSURE SHALL BE FURNISHED WITH A DETACHABLE MOUNTING BASE.
- ALL FACTORY INSTALLED COMPONENTS SHALL BE U.L. LISTED OR PER PUBLISHED N.E.C. STANDARDS.
- A 3/4" CONSTRUCTION GRADE PLYWOOD PANEL SHALL BE FASTENED TO THE REAR WALL. PANEL SHALL BE 12" X 24" AND SHALL HAVE A No. M-25 AND R-841 STANDOFF FASTENED IN THE CENTER OF THE PANEL.
- ENCLOSURE FINISH SHALL CONFORM TO A.S.T.M. B-117. COLOR SHALL BE PORCELAIN WHITE.
- PROVIDE 1 1/2" CONDUIT FOR FUTURE IIS VAC SERVICE.

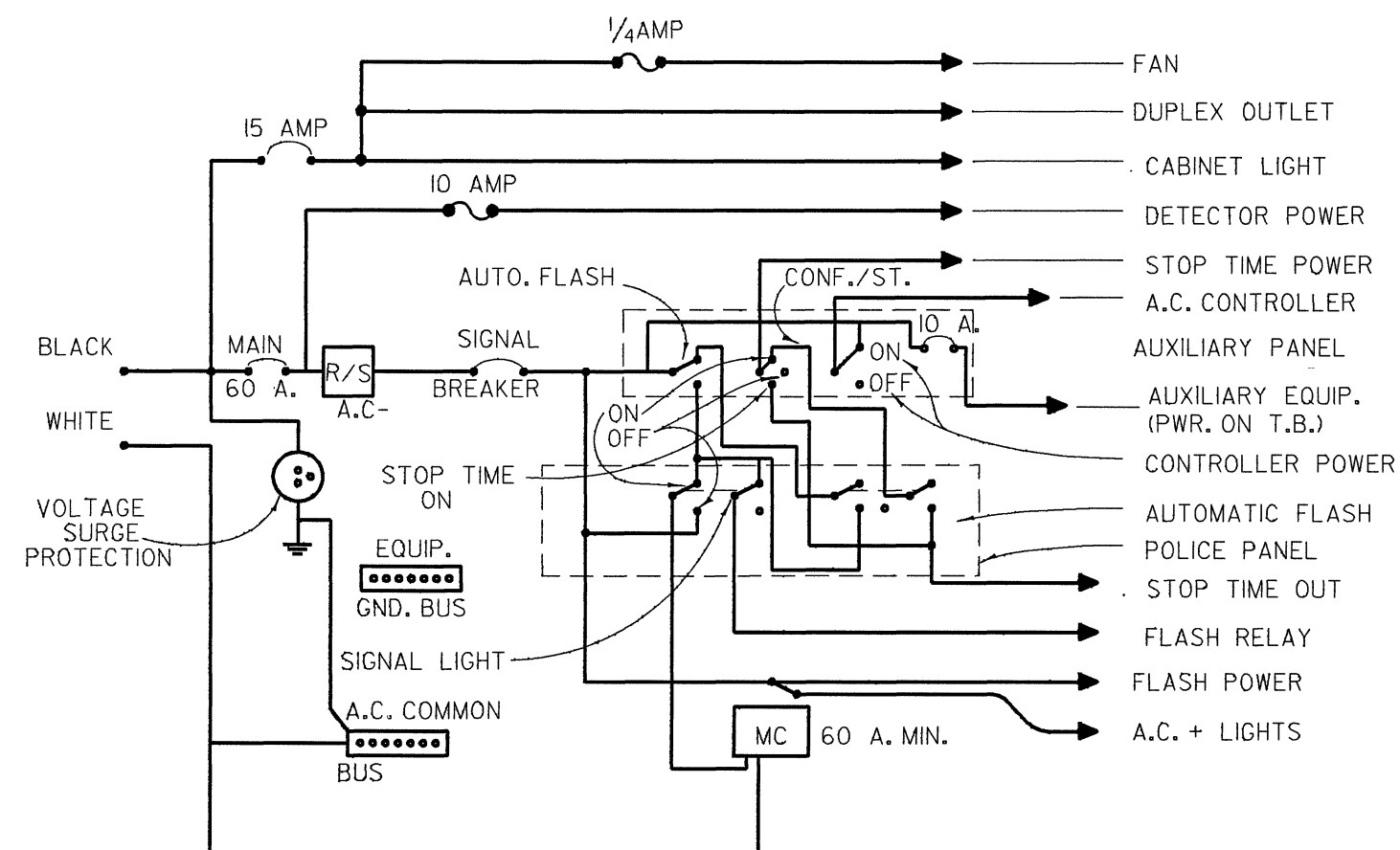
DETAIL B
INTERSECTIONS RAISED MEDIAN



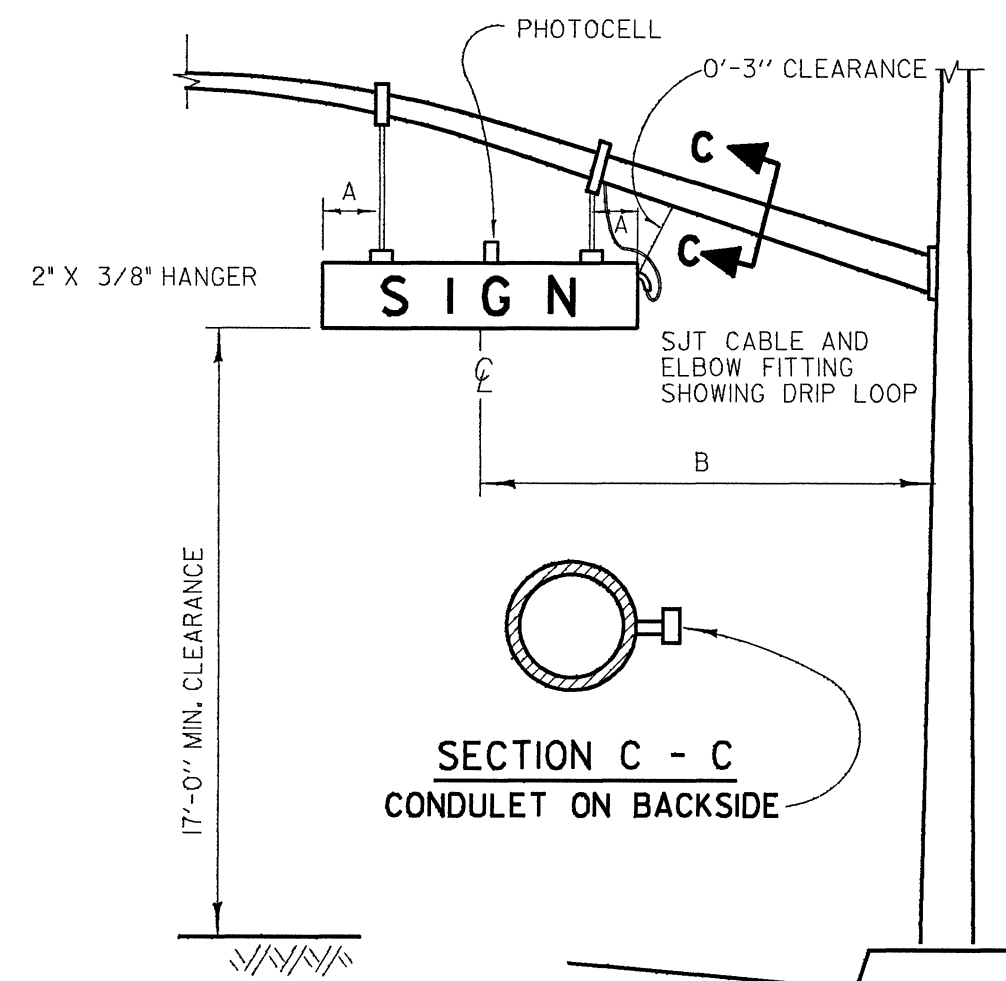
CONSTRUCTION NOTES - DETAILS A & B

- SAWCUT AND JOIN EXISTING
- CONSTRUCT SIDEWALK ACCESS RAMP
- REMOVE CONCRETE
- CONSTRUCT 0.85' AC OVER NATIVE SOIL
- CONSTRUCT TYPE CI-8 CONCRETE CURB PER APWA STD. 104-0

DETAIL G
CONTROLLER CABINET WIRING



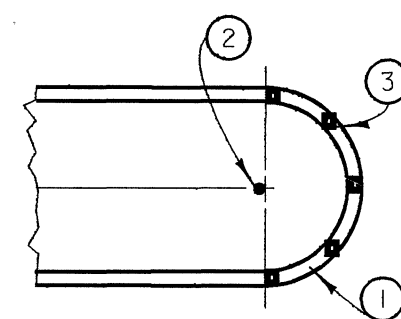
DETAIL C
STREET NAME SIGN COMPONENTS



NOTES - DETAIL C

- A 1'-6" MINIMUM
B 10'-6" CENTERLINE OF SIGN TO FACE OF POLE

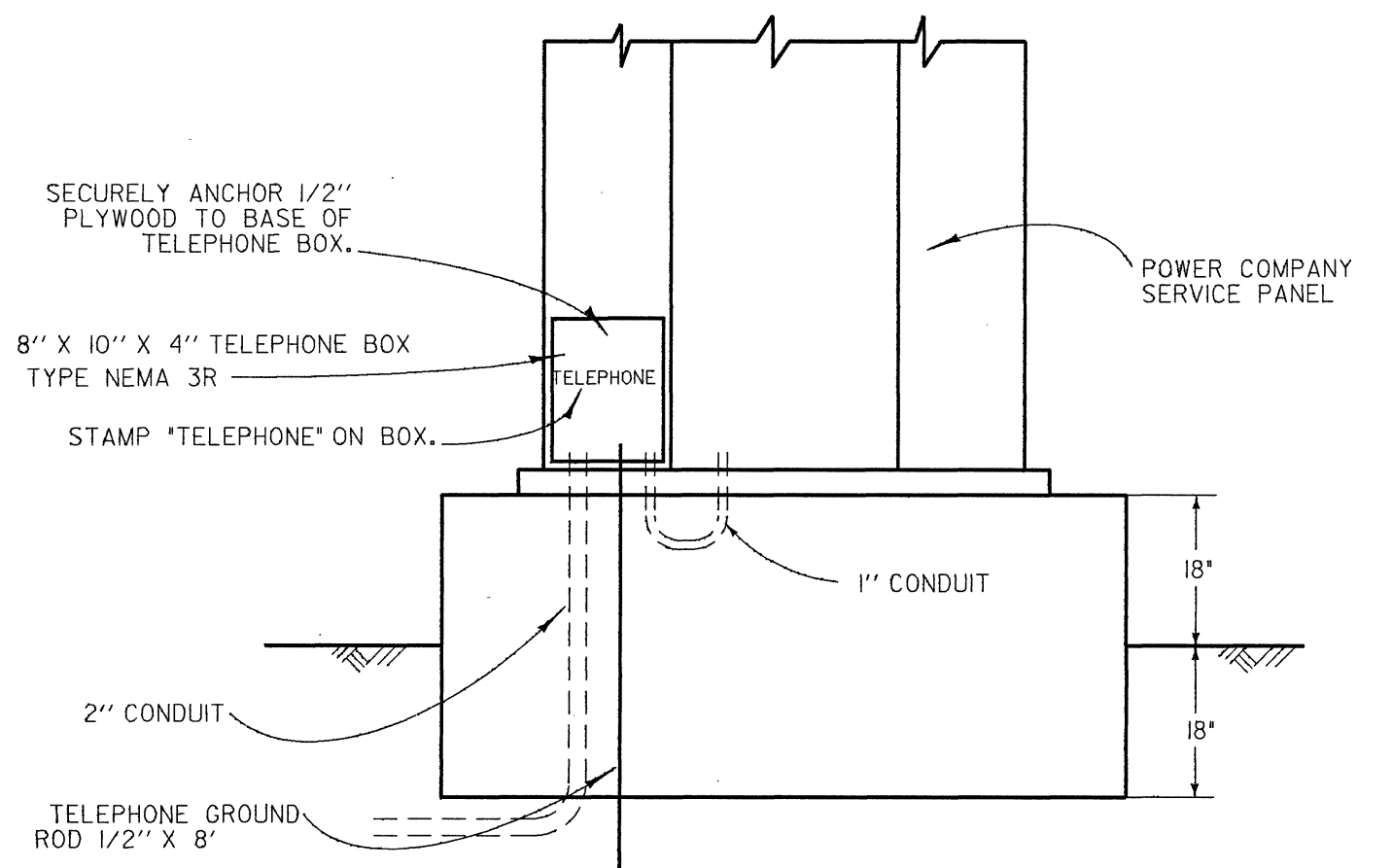
DETAIL H
RAISED MEDIAN MARKING



NOTES - DETAIL H

- PAINT MEDIAN NOSE WITH HIGHLY REFLECTIVE PREMIXED WHITE TRAFFIC PAINT WITH GLASS BEADS.
- INSTALL FLEXIBLE VERTICAL TYPE K MARKER, R7, R10 OR TYPE N-10N TELESAR POST AS INDICATED ON PLAN.
- INSTALL YELLOW REFLECTIVE PAVEMENT MARKERS ON TOP SURFACE OF MEDIAN CURB NOSE AT 2' C.C. SPACING (MINIMUM 5 MARKERS). PLACE REFLECTIVE SURFACE OF MARKERS PARALLEL TO C OF ROADWAY.

DETAIL D
TELEPHONE SERVICE BOX



GENERAL NOTES: Δ

- ALL WORK, MATERIALS AND EQUIPMENT SHALL CONFORM TO THE REQUIREMENTS OF THE CALIFORNIA, DEPT. OF TRANSPORTATION, STANDARD PLANS AND STANDARD SPECIFICATIONS DATED JANUARY 1988 AND THE SPECIAL PROVISIONS FOR THIS PROJECT.
- CONDUCTOR SCHEDULE IS FURNISHED AS AN INSTALLATION GUIDE ONLY. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PROVIDE THE CORRECT CONDUCTORS REQUIRED FOR THE INTENDED OPERATION.
- UTILITIES SHOWN ON THESE PLANS ARE CORRECT AND ACCURATE TO THE EXTENT OF AVAILABLE RECORDS AND KNOWLEDGE. THE CONTRACTOR, HOWEVER, IS REQUIRED TO ASCERTAIN THE EXACT LOCATION OF UNDERGROUND FACILITIES PRIOR TO DOING WORK THAT MAY DAMAGE SUCH FACILITIES OR INTERFERE WITH THEIR SERVICE.
- 48 HOURS PRIOR TO BEGINNING OF CONSTRUCTION, THE CONTRACTOR SHALL CONTACT ORANGE COUNTY E.M.A. FOR INSPECTION AT 567-7800.
- THE ENGINEER SHALL APPROVE POLE AND LOOP DETECTION PLACEMENT IN THE FIELD PRIOR TO INSTALLATION.
- ALL CONDUIT SHALL BE 2" UNLESS OTHERWISE NOTED.
- ALL PULL BOXES SHALL BE #5 UNLESS OTHERWISE NOTED.
- ALL SALVAGED EQUIPMENT SHALL BE DELIVERED BY CONTRACTOR TO ORANGE COUNTY YARD AT 152 EAST FRUIT ST, SANTA ANA, CA. CONTRACTOR SHALL GIVE A 48-HOUR NOTICE TO THE COUNTY PRIOR TO THE DELIVERY DATE.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY TELEPHONE AND ELECTRICAL SERVICE LINES AND INTERCONNECT HOOK-UPS BETWEEN THE LOCAL CONTROLLER AND THE SYSTEM MASTER.
- PEDESTRIAN INDICATION SHALL BE INTERNATIONAL SYMBOL.
- PEDESTRIAN PUSH BUTTON SHALL BE TYPE B WITH INTERNATIONAL SYMBOL PLATE.
- ALL VEHICLE INDICATIONS SHALL BE 12" WITH BACKPLATES, GLASS REFLECTORS, AND GLASS LENSES, UNLESS SHOWN OTHERWISE.
- CONTRACTOR SHALL POTHOLE CONFLICTING UTILITIES AS DIRECTED BY ENGINEER.
- CONTRACTOR SHALL AVOID DAMAGING EXISTING UTILITIES. (SEE SPECIAL PROVISIONS).
- INDUCTIVE LOOPS SHALL BE 6' X 6' WITH 9' SPACING IN THE DIRECTION OF TRAVEL UNLESS OTHERWISE NOTED.
- ALL DETECTOR CABLE HOMERUNS SHALL BE IN THE CROSSWALK AREA.
- ALL 6' X 6' DETECTOR LOOPS SHALL BE FOUR(4) TURNS.
- ALL QUADROPOLE DETECTOR LOOPS SHALL BE TWO (2-4-2) TURNS.

1 1/2 0 1 2
3 inches on original drawing

REVISIONS		ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY	
MARK	DATE	DESCRIPTION	PREPARED UNDER
DESIGNED	L. ABAD	SCALE	DATE
DRAWN	T. PHAM	CHECKED	L. NATSUHARA
3-29-88		ADDED NOTE 17.	SHEET 4 OF 4
4-4-88		DELETED TYPE 11 SERVICE.	
12-9-88		ADDED INTERCONNECT SPICE CABINET.	
11-18-91		MODIFIED INTERCONNECT SPICE CABINET.	
11-18-91		MODIFIED CONTROLLER CABINET WIRING.	