

ORANGE COUNTY

SANTA ANA, CALIFORNIA

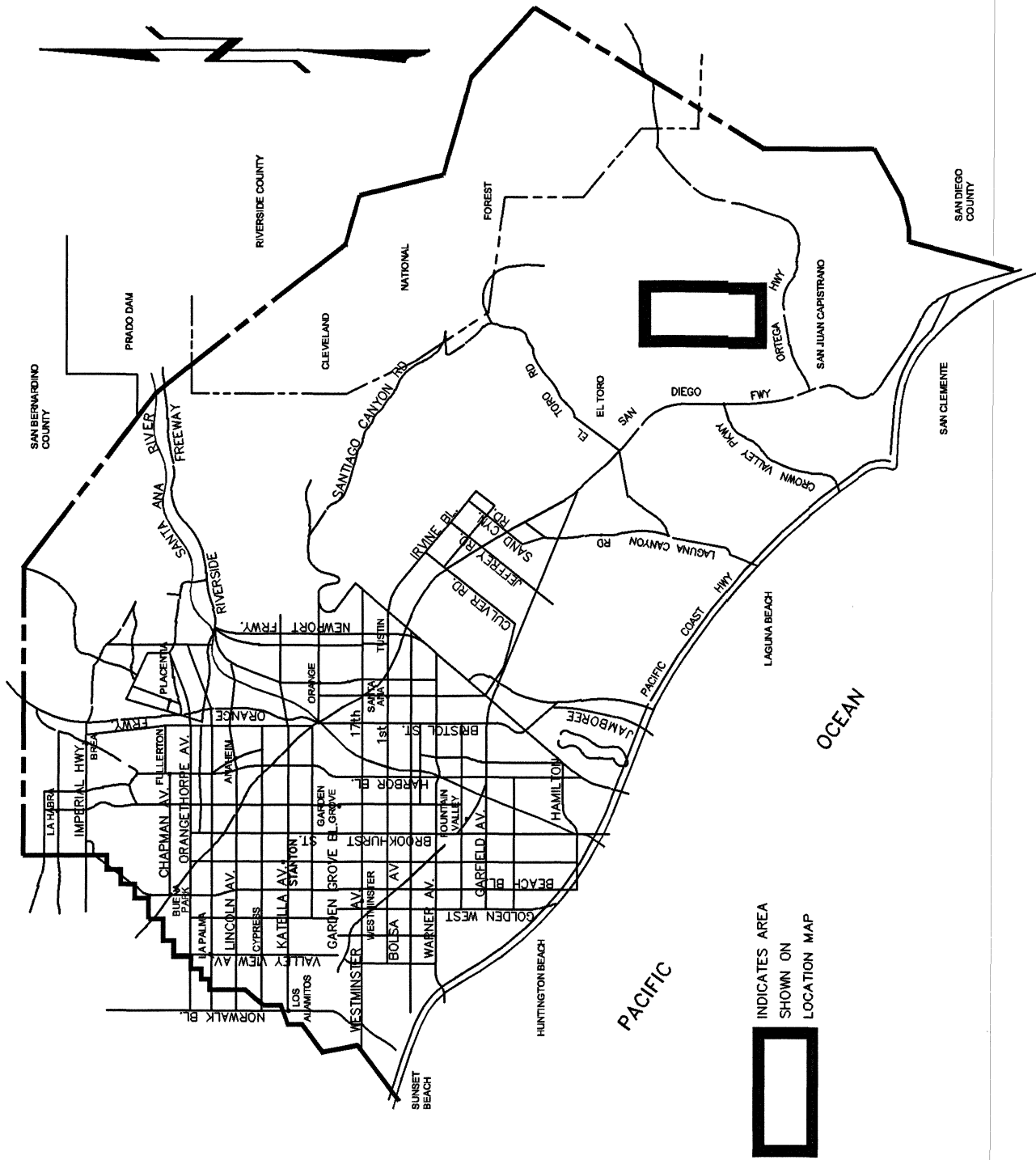
PLANNING & DEVELOPMENT SERVICES DIVISION PLANS FOR THE CONSTRUCTION OF A TRAFFIC SIGNAL AT

ANTONIO PKWY. AND TERRACE

TRACT NO. 16063

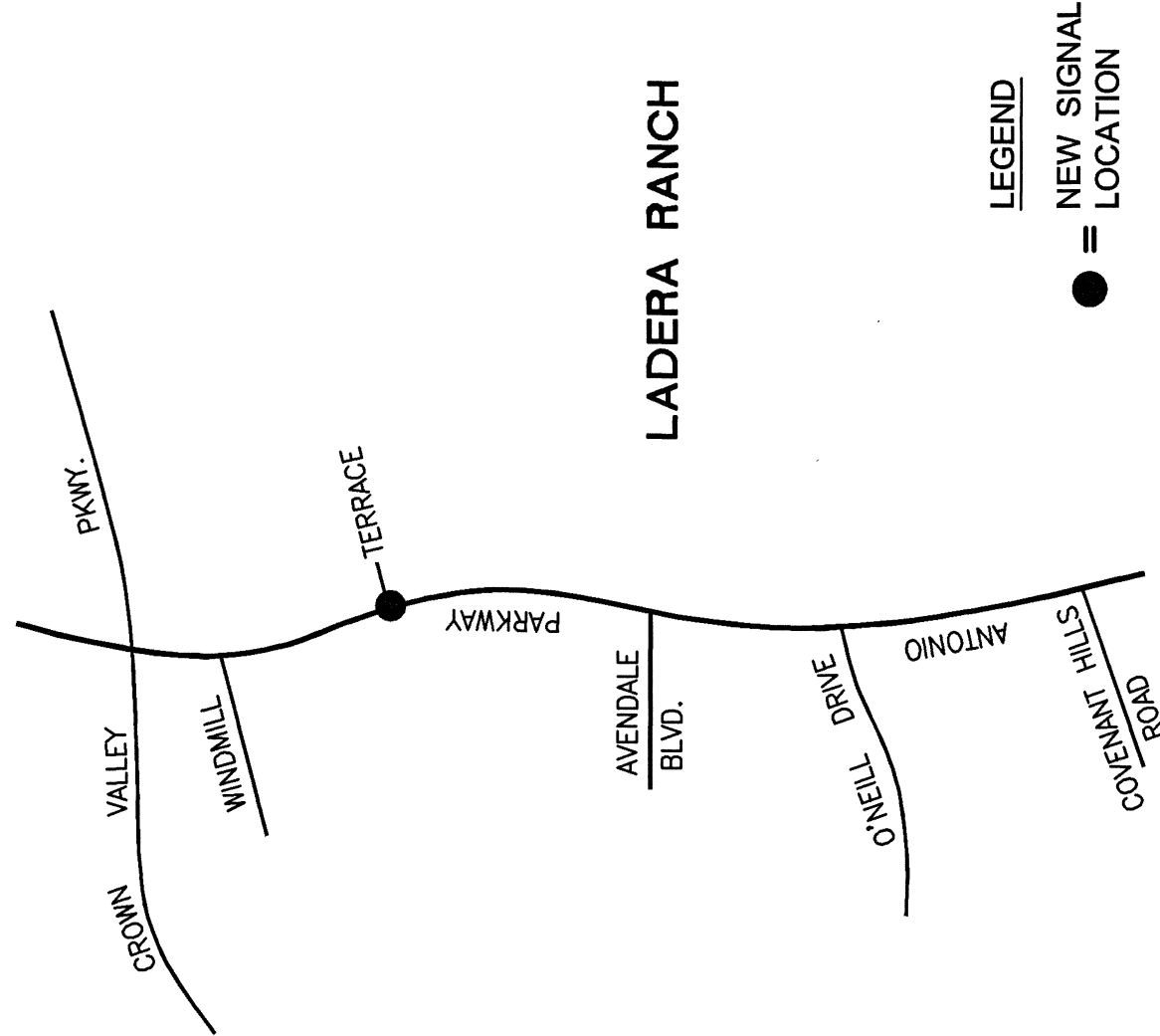
INDEX OF SHEETS
SHEET DESCRIPTION

1. TITLE SHEET
2. TRAFFIC SIGNAL PLAN
ANTONIO AND TERRACE
3. DETAIL SHEET



VICINITY MAP

1 0 5 10
SCALE IN MILES



LOCATION MAP

★ THIS TRAFFIC SIGNAL SHALL NOT BE CONSTRUCTED UNTIL WARRANTED APPLICANT SHALL SUBMIT TRAFFIC SIGNAL WARRANTS/ANALYSIS TO PFROD/TRAFFIC ENGINEERING FOR REVIEW AND APPROVAL. IF APPROVED A MEMO TO PFROD/PUBLIC PROPERTY PERMITS WILL BE PROVIDED AUTHORIZING THE CONSTRUCTION OF THE TRAFFIC SIGNAL SYSTEM.

ENCROACHMENT PERMIT No. 2001-00476

COUNTY APPROVED PLANS DO NOT RELIEVE CONTRACTOR/DEVELOPER FROM RESPONSIBILITY TO OBTAIN COUNTY PROPERTY PERMIT WHICH SHALL BE AVAILABLE ON THE JOB AT ALL TIMES WORK IS BEING ACCOMPLISHED IN PUBLIC RIGHT OF WAY.

FUNDING BY: DEVELOPER

COUNTY OF ORANGE
PLANNING AND DEVELOPMENT SERVICES

THIS PLAN IS SIGNED BY PLANNING AND DEVELOPMENT SERVICES FOR CONCEPT AND ADHERENCE TO COUNTY STANDARDS AND REQUIREMENTS ONLY. PLANNING AND DEVELOPMENT SERVICES IS NOT RESPONSIBLE FOR DESIGN ASSUMPTIONS AND ACCURACY.

[Signature]
RCE 2/27/03
DATE

COUNTY OF ORANGE
PFROD/ROAD DIVISION-TRAFFIC ENGINEERING

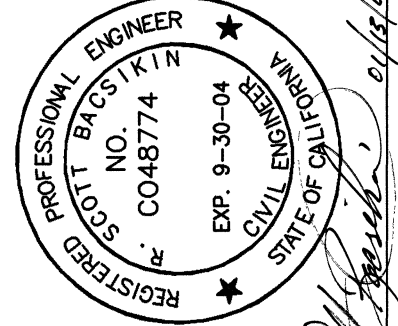
APPROVED BY: *[Signature]* DATE: 2/26/03

I.G. OCHOA, COUNTY TRAFFIC ENGINEER

THIS PLAN IS SIGNED BY PFROD/T.E. FOR CONCEPT AND ADHERENCE TO COUNTY TRAFFIC SIGNAL, SIGNING AND STOPPING STANDARDS AND REQUIREMENTS ONLY. PFROD/T.E. IS NOT RESPONSIBLE FOR DESIGN ASSUMPTIONS OR ACCURACY.
★ FOR BIDDING PURPOSES ONLY-SEE NOTE ABOVE



WILLDAN
Serving Public Agencies 949/470-8840 fax 949/770-5041
27043 Tanager Circle, Suite 270
Foothill Ranch, California 92610



PREPARED UNDER THE SUPERVISION OF
R. SCOTT BACKLIN
DATE 2/16/03

UTILITY	PHONE	CONTACT
1. S.D.G.&E.	690-361-8037	PATTI GOOD
2. PACIFIC BELL	714-666-5443	LARRY TODD
3. S.M. WATER DIST.	949-459-6585	CINDY LANE
4. SO. CAL. GAS CO.	714-634-3120	RON REED
5. COX COMMUNICATIONS	949-240-8828	LINDA TESSIER
6. U.S.ALERT	1-800-422-4133	

DEVELOPER:
RANCHO MISSION VIEJO
28811 ORTEGA HIGHWAY
P.O. BOX 9
SAN JUAN CAPISTRANO, CA. 92693
(949) 888-9175

BLOCK: 5057

MODULE:

97 & 98

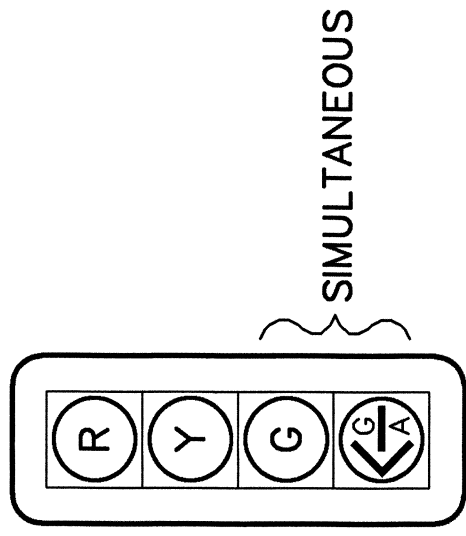
NO.	DESCRIPTION	SHT.	APPROVED	DATE

W.O. NO. _____
DWG. NO. _____

SHEET 1 OF 3

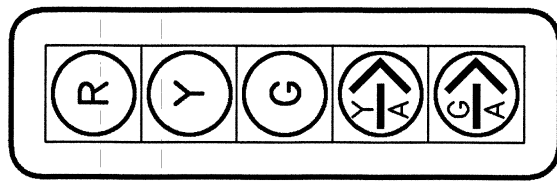
DETAIL A

4-SECTION SIGNAL HEAD
12" LENSES



DETAIL E

5-SECTION SIGNAL HEAD
12" LENSES

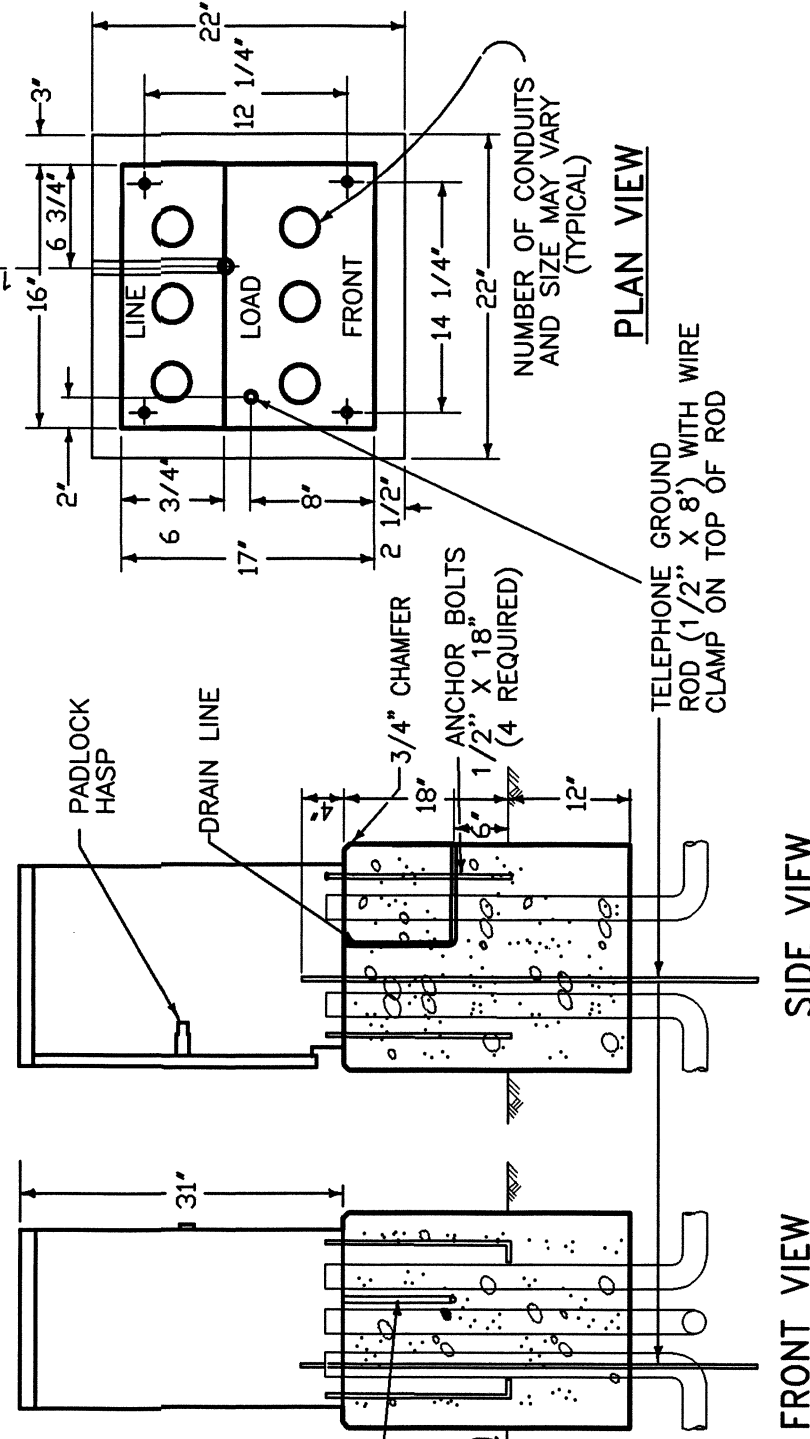


△ - BAND STRAP OR BOLT FRAME WORK AT TOP, TO SIGNAL POLE, AS DIRECTED BY ENGINEER.

△ - NO CAST ALUMINUM TERMINAL BLOCKS ALLOWED.

DETAIL F

INTERCONNECT SPLICE CABINET

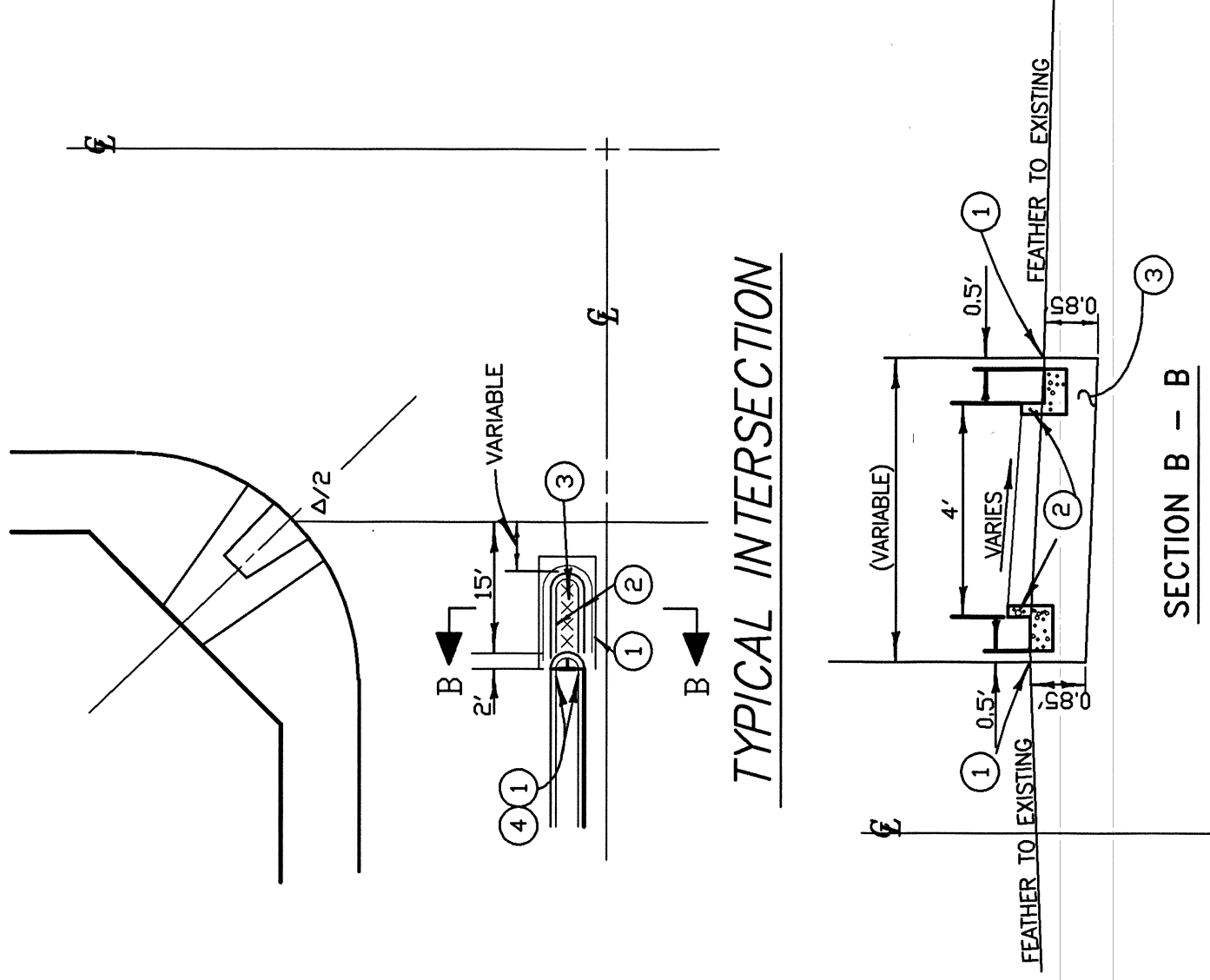


NOTES - DETAIL F

- FOUNDATION TO BE 22" X 22" ANCHOR BOLT PLACEMENT PER CABINET MFG. TEMPLATE.
- ENCLOSURE SHALL BE ALUMINUM AND 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. PAINT TO BE APPLIED TO EXTERNAL AND INTERNAL CABINET SURFACE SHALL BE WHITE ANTI-GRAFFITI CARDINAL'S 6409 G SERIES OR APPROVED EQUAL. ANTI-GRAFFITI PAINT SHALL BE APPLIED TO CABINET AT THE TIME OF MANUFACTURE.
- PROVIDE 1 1/2" CONDUIT FOR FUTURE 115 VAC SERVICE.
- PROVIDE GROUND BUS INSIDE SPLICE CABINET.

DETAIL B

INTERSECTIONS RAISED MEDIAN

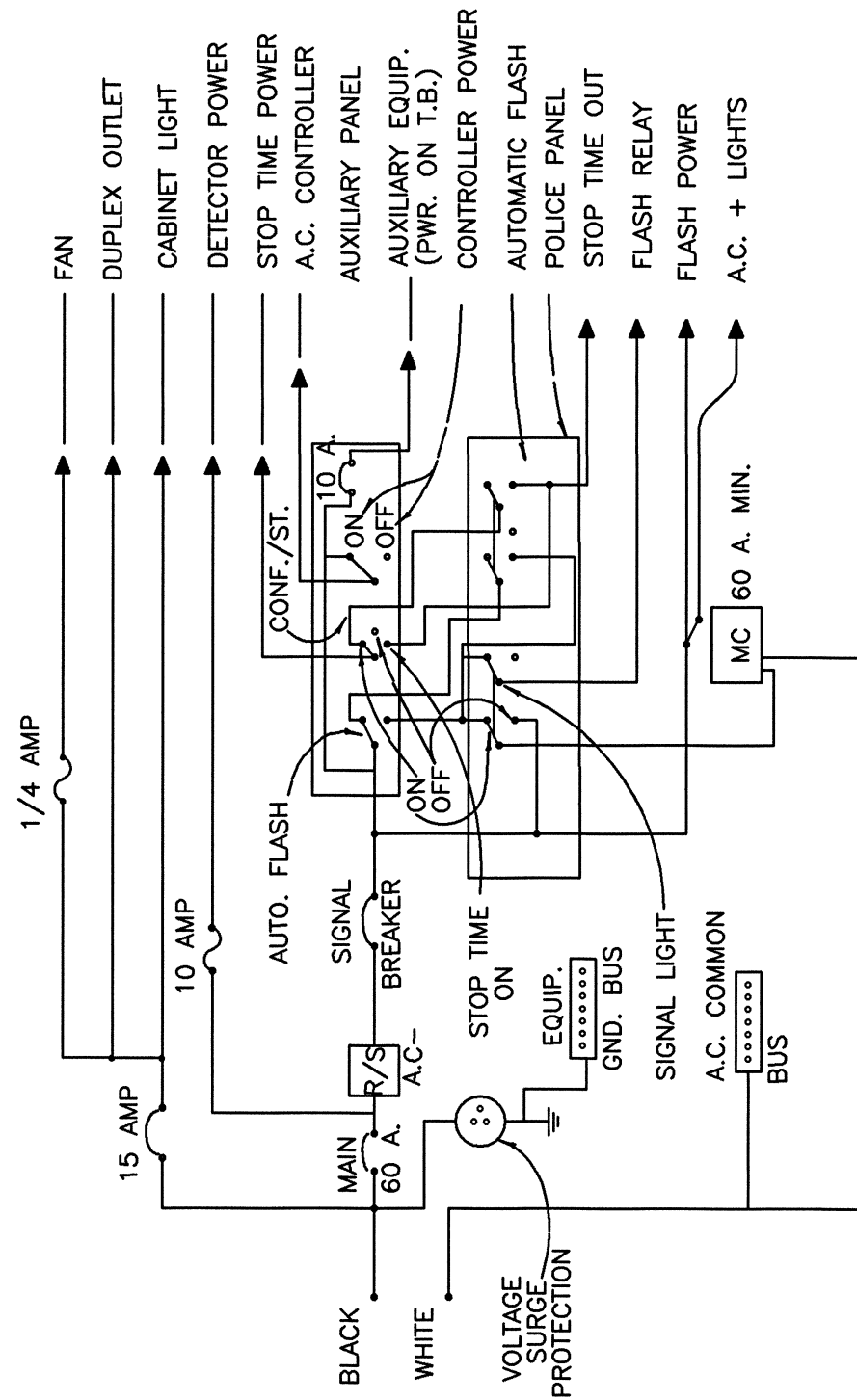


NOTES - DETAIL B

- SAWCUT AND JOIN EXISTING
- REMOVE CONCRETE
- CONSTRUCT 0.85' AC OVER NATIVE SOIL
- CONSTRUCT TYPE A1-8 CONCRETE CURB PER APWA STD. PLAN 120-0.

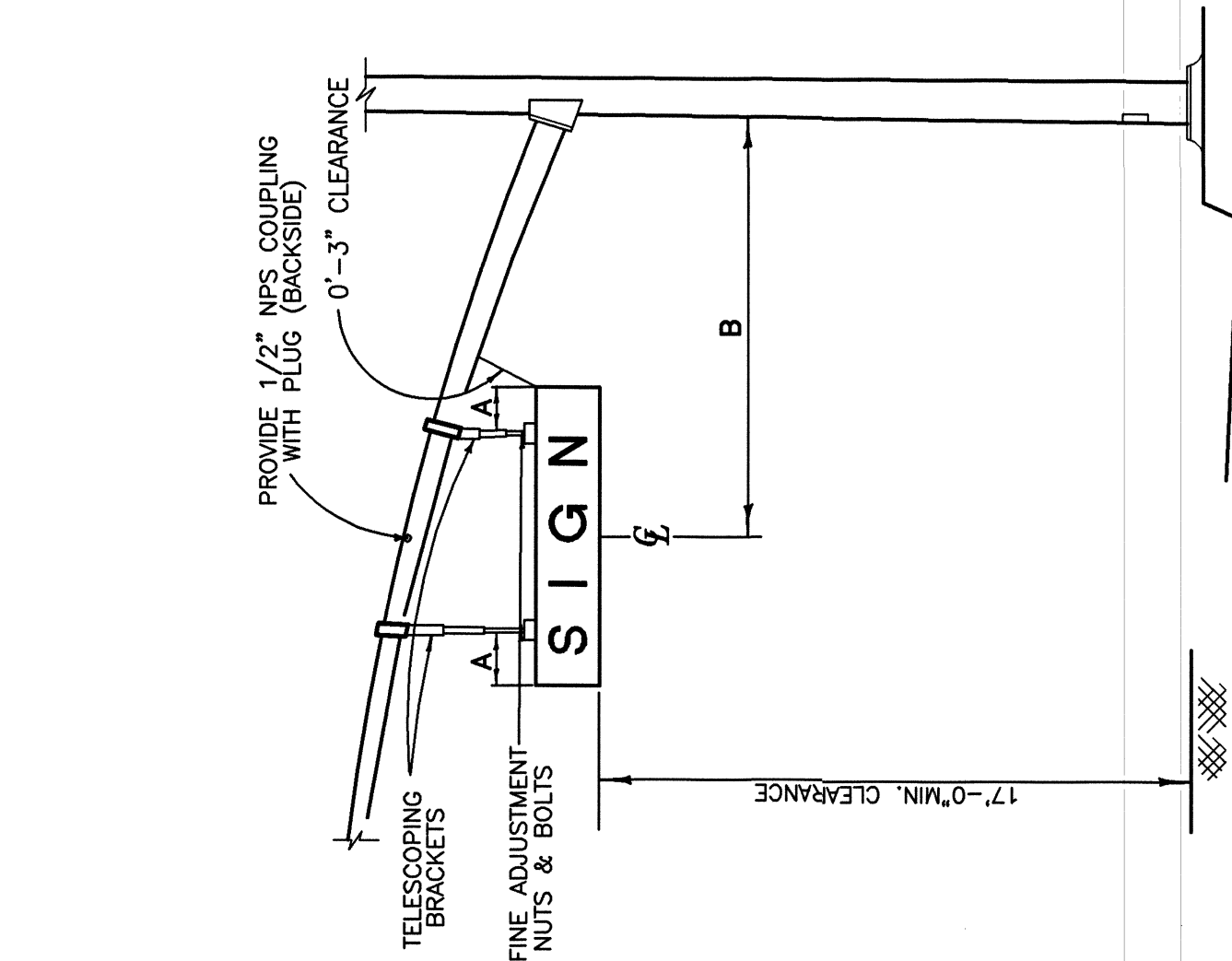
DETAIL G

CONTROLLER CABINET WIRING



DETAIL C

REFLECTORIZED STREET NAME SIGN COMPONENTS

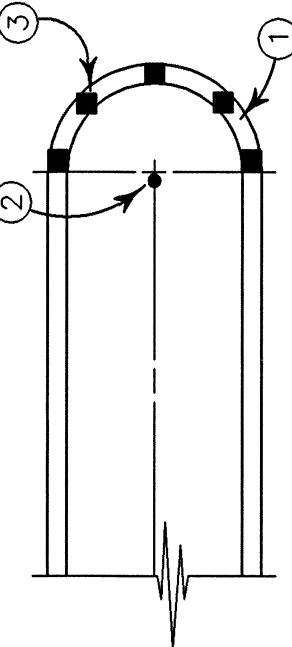


NOTES - DETAIL C

- 1'6" (18"x72" SIGN), 2'-0" (18"x96" SIGN)
- 10'-6" CENTERLINE OF SIGN TO FACE OF POLE

DETAIL H

RAISED MEDIAN MARKING

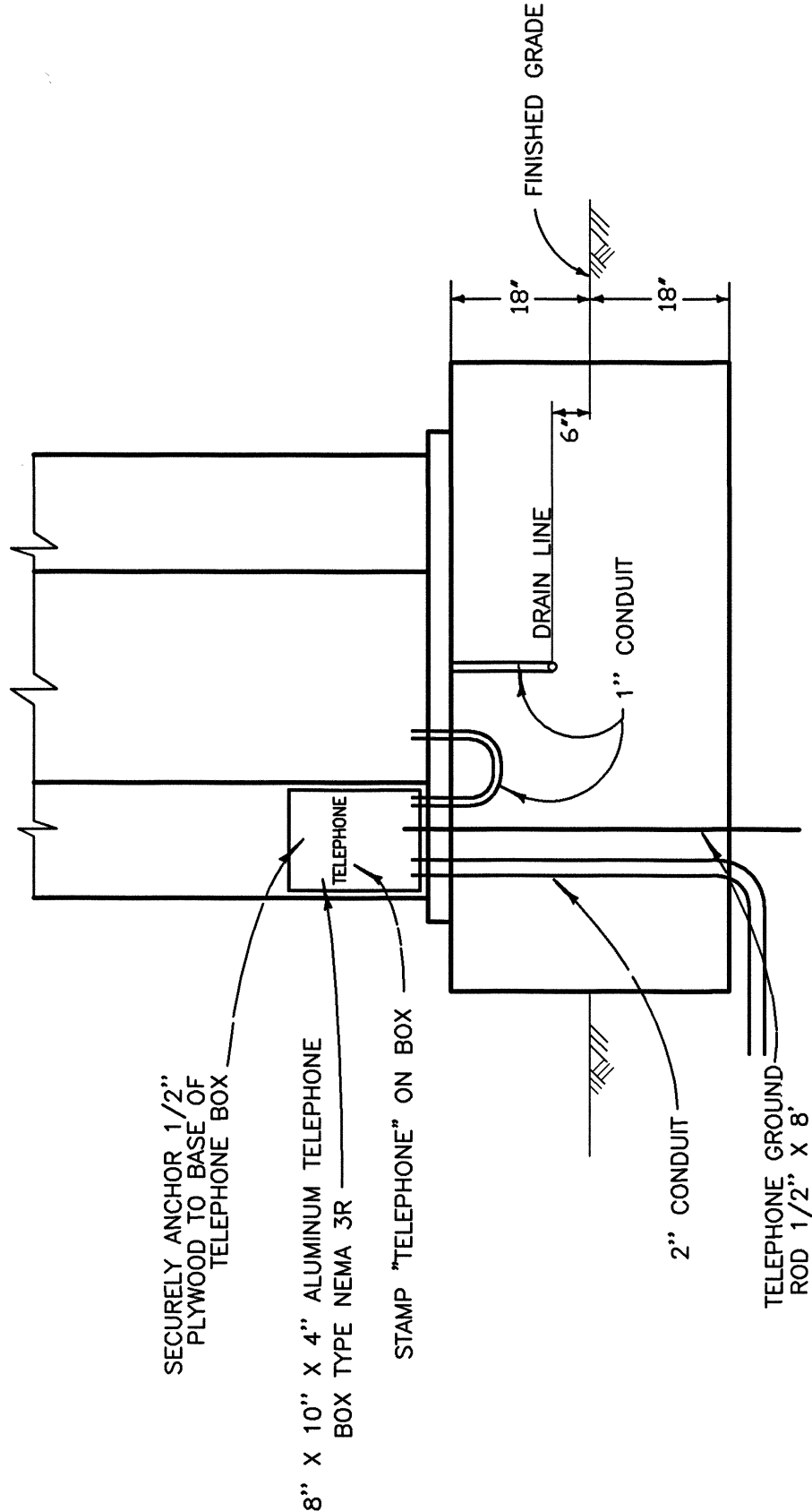


NOTES - DETAIL H

- PAINT MEDIAN NOSE WITH HIGHLY REFLECTIVE PREMIKED WHITE TRAFFIC PAINT WITH GLASS BEADS.
- INSTALL FLEXIBLE VERTICAL TYPE K MARKER, R7, R10 OR TYPE N-1 ON TELSPAR POST AS INDICATED ON THE PLAN.
- INSTALL YELLOW REFLECTIVE PAVEMENT MARKERS ON TOP SURFACE OF MEDIAN CURB NOSE AT 2' C.C. SPACING (MIN. 5 MARKERS). PLACE REFLECTIVE SURFACE OF MARKERS PERPENDICULAR TO G OF ROADWAY.

DETAIL D

TELEPHONE SERVICE BOX



GENERAL NOTES :

- ALL WORK, NEW MATERIALS AND NEW EQUIPMENT SHALL CONFORM TO THE REQUIREMENTS OF THE CALIFORNIA DEPARTMENT OF TRANSPORTATION, STANDARD PLANS DATED JULY 1999 AND STANDARD SPECIFICATIONS DATED JULY 1999 AND THE SPECIAL PROVISIONS FOR THIS PROJECT.
- 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 PUBLIC FACILITIES & RESOURCES DEPARTMENT FOR INSPECTION AT (714) 567-7800.
- THE ENGINEER SHALL APPROVE POLE AND LOOP DETECTION PLACEMENT IN THE FIELD PRIOR TO INSTALLATION.
- ALL CONDUITS SHALL BE 2" UNLESS OTHERWISE NOTED.
- ALL PULL BOXES SHALL BE #5 UNLESS OTHERWISE NOTED.
- ALL SALVAGED EQUIPMENT SHALL BE DELIVERED UNBRANDED, BY CONTRACTORS, TO THE ORANGE COUNTY YARD AT 1152 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 CONNECTIONS BETWEEN THE LOCAL CONTROLLER AND THE SYSTEM MASTER.
- PEDESTRIAN INDICATIONS SHALL BE INTERNATIONAL SYMBOL L.E.D. TYPE.
- PEDESTRIAN PUSH BUTTONS SHALL BE TYPE B WITH INTERNATIONAL SYMBOL PLATE.
- ALL VEHICLE INDICATIONS SHALL BE 12" DIAMETER RED, YELLOW AND GREEN L.E.D. DISPLAYS WITH BACKPLATES.
- CONTRACTOR SHALL AVOID DAMAGING EXISTING UTILITIES AS DIRECTED BY ENGINEER.
- CONTRACTOR SHALL AVOID DAMAGING EXISTING UTILITIES. (SEE SPECIAL PROVISIONS).
- DETECTOR LOOPS SHALL BE CIRCULAR 6' DIAMETER WITH 9' SPACING IN THE DIRECTION OF TRAVEL UNLESS OTHERWISE NOTED.
- ALL DETECTOR CABLE HOMERUNS SHALL BE IN THE CROSSWALK AREA.
- ALL DETECTOR LOOPS SHALL HAVE FOUR (4) TURNS.
- ALL QUADRIPOLE DETECTOR LOOPS SHALL BE TWO (2-4-2) TURNS.
- TRAFFIC CONTROLLER CABINET FOUNDATION SHALL BE 18" ABOVE AND BELOW FINISHED GRADE (SEE DETAIL D).
- INSTALL "CABINET DOOR OPEN" CIRCUIT IN CONTROLLER CABINET PER MANUFACTURE'S SPECIFICATIONS.
- CONCRETE REPLACEMENT TO MATCH EXISTING.
- MAINTAIN 36 INCHES OF CLEARANCE BETWEEN CABINETS.

ORANGE COUNTY PUBLIC FACILITIES AND RESOURCES DEPARTMENT	
5-25-98 4-4-98 12-4-98 11-19-91 6-7-93 1-1-97 3-4-97 8-31-98 10-12-01 11-7-01	ADDED NOTE 16 DELETED TYPE II SERVICE ADDED INTERCONNECT SPLICE CABINET. MODIFIED INTERCONNECT SPLICE CABINET. MODIFIED INTERCONNECT SPLICE CABINET. MODIFIED INTERCONNECT SPLICE CABINET. MODIFIED OVERHEAD STREET NAME SIGN. MODIFIED DETECTOR LOOP NOTES. ADDED NOTES IN DETAIL E. MODIFIED NOTE 1. MODIFIED NOTES 9 & 11. ADDED NOTE 21.
MARK	DATE
REVISIONS	
DESIGNED	DATE
DRAWN	DATE
SCALE	W. O. NO.
NOT TO SCALE	DATE
CHECKED	DATE
SHEET	3
OF	3

SIGNAL DETAIL SHEET

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