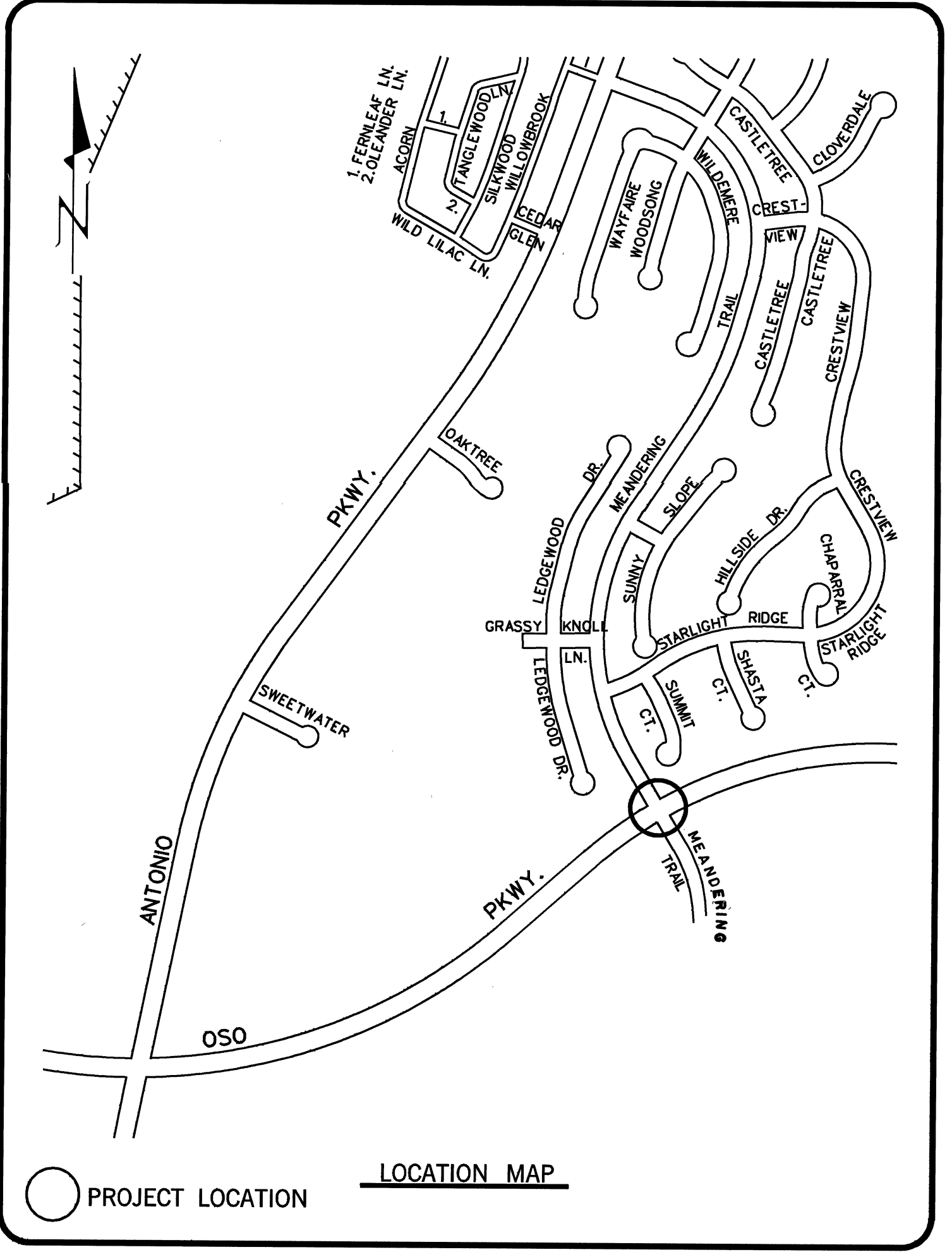
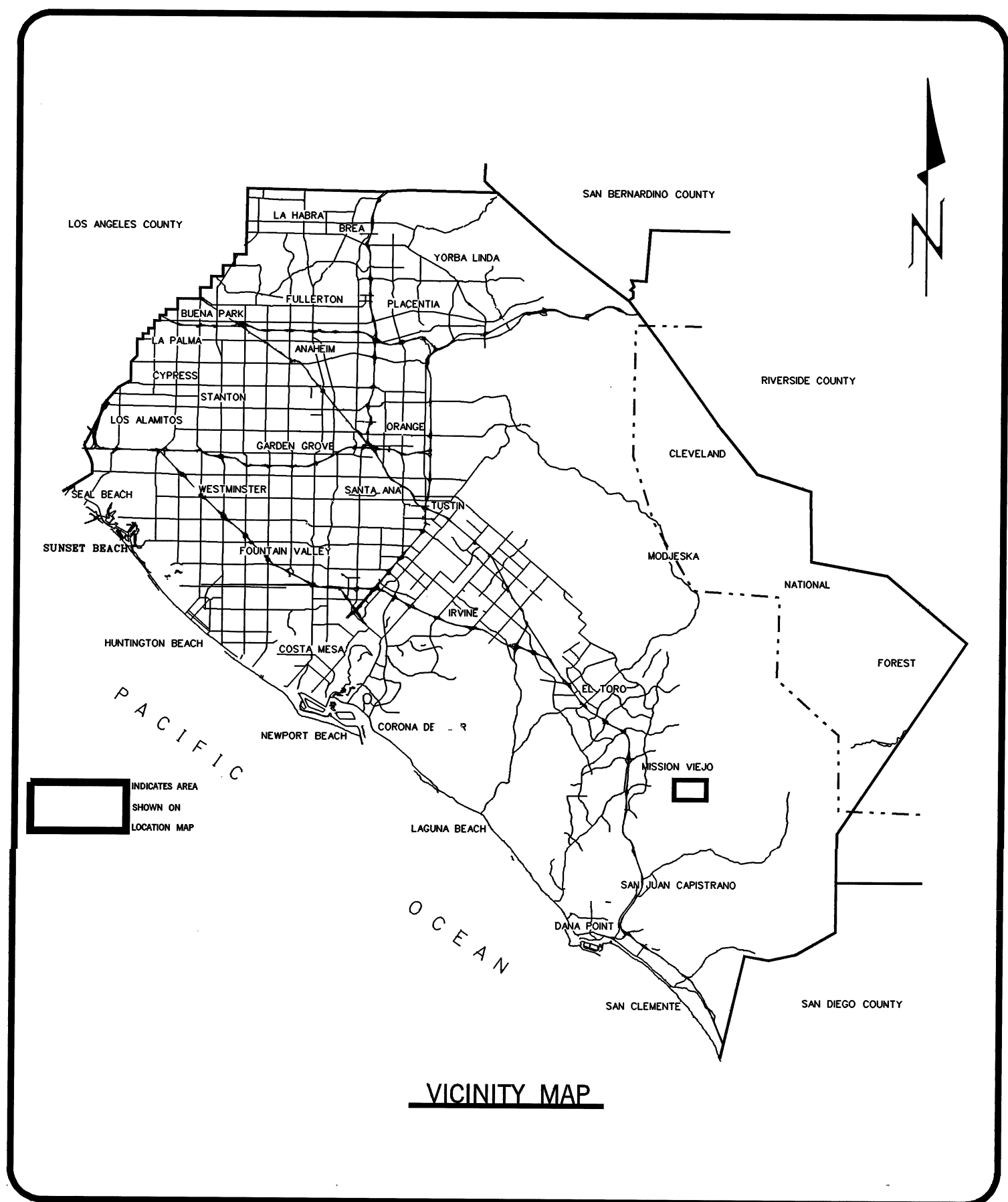


EPH 24
EAS FILE CORR. Irvine, CA
050.1



ORANGE COUNTY
PUBLIC FACILITIES AND RESOURCES DEPARTMENT
SANTA ANA, CALIFORNIA
JOHN W. SIBLEY, ACTING DIRECTOR
PLANS FOR CONSTRUCTION OF
A TRAFFIC SIGNAL
AT
OSO PARKWAY
AND
MEANDERING TRAIL

JUNE 1998

FUNDED BY: DEVELOPER DEPOSITS

PUBLIC FACILITIES & RESOURCES DEPARTMENT

RECOMMENDED:
I. G. OCHOA
COUNTY TRAFFIC ENGINEER
RCE 35217 (9-30-99)
RTE 1183

APPROVED:
K. R. SMITH
CHIEF ENGINEER

6/19/98 DATE
6/22/98 DATE



INDEX OF SHEETS	
SHEET	DESCRIPTION
1	TITLE SHEET
2	SIGNAL PLAN
3	DETAIL SHEET

UTILITY	OWNER	PHONE NO.	CONTACT
THE GAS COMPANY		(714)634-3185	BOB WARTH
SANTA MARGARITA WATER DISTRICT		(714)459-6587	RAY DORAME
PACIFIC BELL		(714)666-5748	CHRIS RUTHERFORD
COX COMMUNICATIONS		(714)716-2143	DUANE BROWNING
SDG&E		(714)361-8047	PATTI GOOD
USA		1-800-422-4133	

NO.	DESCRIPTION	SHT.	APPROVED	DATE
REVISIONS				

W. O. NO. ER10145
DWG. NO. _____

SHEET 1 OF 3

() - EXISTING
BOLD - NEW.

- ☒ - DETECTOR LOOP LOCATIONS SHALL BE APPROVED BY ENGINEER IN FIELD PRIOR TO INSTALLATION. ALL DETECTOR UNITS SHALL BE RACK MOUNTED, DUAL CHANNEL, DUAL OUTPUT PER CHANNEL WITH INTEGRAL COLORGATED EXTENSION AND DELAY CAPABILITY. OUTPUT "A" SHALL BE TIMED. OUTPUT "B" SHALL BE PRESENCE MODE FOR SYSTEM SAMPLING & COUNT OUTPUT ONLY.
- (*) - SYSTEM SAMPLER NUMBER.
- PROVIDE 14 SLOT DETECTOR RACK AND CARDS.

SEE SHEET 3

13 — PAINT 100 mm (4") DOUBLE YELLOW (PER DETAIL 22 OR 29).

14 — PAINT 100 mm (4") SOLID WHITE (PER DETAIL 9).

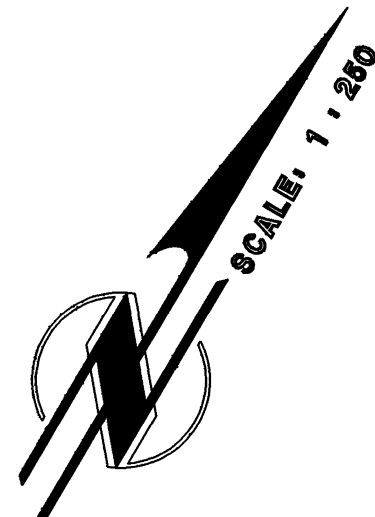
15 — PAINT 200 mm (8") SOLID WHITE (PER DETAIL 38).

16 — PAINT 300 mm (12") SOLID WHITE.

17 — STENCIL AS SHOWN.

18 — FURNISH & INSTALL CONDUCTORS AS INDICATED.

19 — FURNISH & INSTALL CANTILEVER FLASHING BEACON TYPE 9B WITH W41 SIGN, EXTERNALLY ILLUMINATED PER CALTRANS STANDARD PLAN ES-9A & 9B (24 HOUR OPERATION, ALTERNATING FLASHING BEACONS).

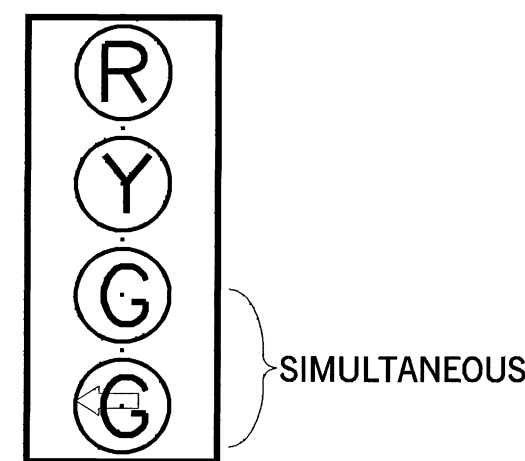


CONSTRUCTION NOTES:

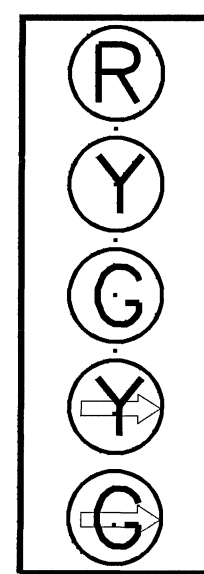
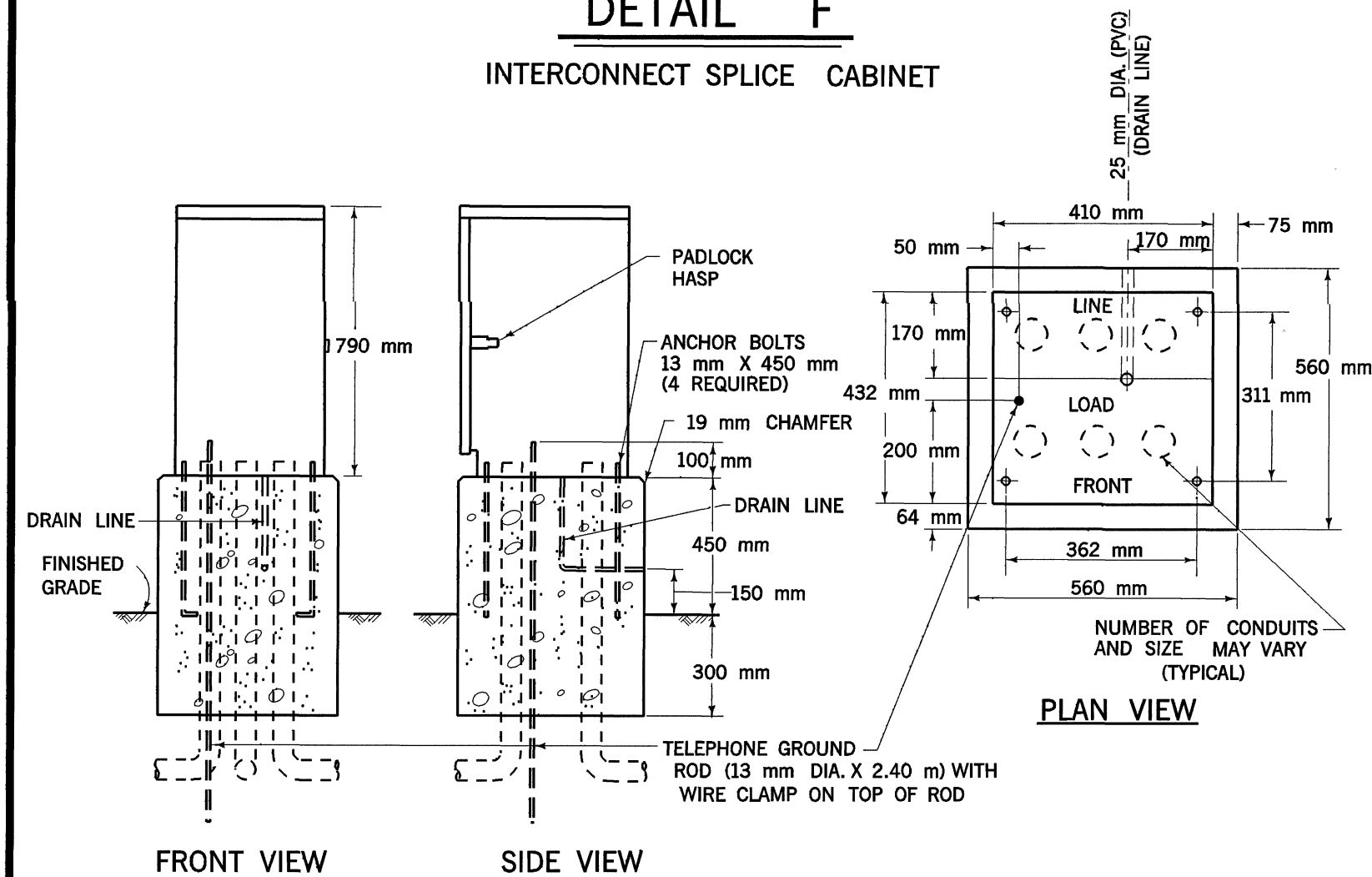
- 1] — CONSTRUCT P.C. CONCRETE TYPE "P" CONTROLLER CABINET FOUNDATION.
 - 2] — FURNISH & INSTALL AN ECONOLITE ASC2-2100 CONTROLLER IN A TS2 TYPE 1 FULLY WIRED TYPE "P" ALUMINUM CABINET PER THIS PLAN AND THE SPECIAL PROVISIONS. FACE CABINET DOOR TOWARDS OSO PARKWAY.
 - 3] — FURNISH & INSTALL TYPE III-B ELECTRICAL SERVICE & FOUNDATION.
 - 4] — FURNISH & INSTALL 50 mm (2") CONDUIT AND CONDUCTORS TO ELECTRICAL SERVICE CONNECTION.
 - 5] — FURNISH & INSTALL ± 900 m OF 6 PAIR #22 TWISTED, SHIELDED INTERCONNECT TELEPHONE CABLE FROM THE SPLICE CABINET AT OSO PKWY. AND ANTONIO PKWY. (S/W CORNER @ ANTONIO PKWY. & OSO PKWY.) TO THIS CONTROLLER. COIL AN EXTRA 3 m (10') OF SLACK IN PULL BOX.
 - 6] — FURNISH & INSTALL SIGN AS INDICATED.
 - 7] — FURNISH & INSTALL EVP CABLE FROM END OF MASTARM TO CONTROLLER CABINET AND COIL 10' OF CABLE INSIDE CONTROLLER CABINET.
 - 8] — FURNISH & INSTALL 50 mm (2") CONDUIT AND/OR #5 PULL BOX AS INDICATED.
 - 9] — INSTALL PIPE TENON WITH REMOVABLE GALVANIZED CAP AND PULL ROPE.
 - 10] — REMOVE & SALVAGE THE EXISTING SIGN AS INDICATED.
 - 11] — FURNISH AND INSTALL DETECTOR LOOPS AS SHOWN AND PER GENERAL NOTES SHEET 3.
 - 12] — SANDBLAST & REMOVE CONFLICTING STRIPING, STENCIL (IN BLOCK FORM) AND MARKERS AS SHOWN.

File Name: \$DGN-FILE-NAMES\$
Date Plotted: dd-mmm-yyy hh:mm

DETAIL A

4-SECTION SIGNAL HEAD
300 mm LENSES

DETAIL E

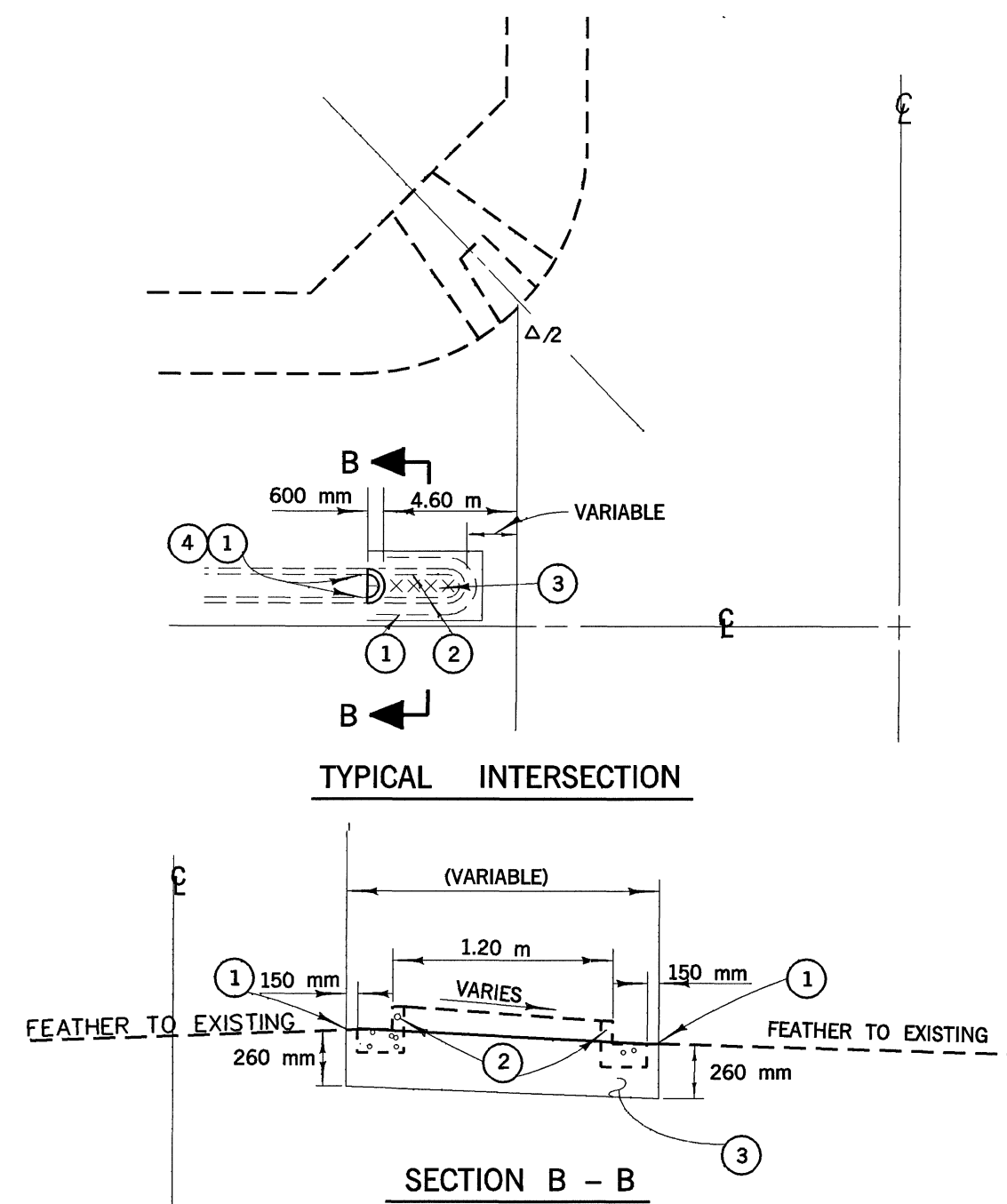
5-SECTION SIGNAL HEAD
300 mm LENSESDETAIL F
INTERCONNECT SPLICE CABINET

NOTES - DETAIL F

- FOUNDATION TO BE 560 mm X 560 mm. 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 19 mm CONSTRUCTION GRADE PLYWOOD PANEL SHALL BE FASTENED TO THE REAR WALL. PANEL SHALL BE 300 mm X 600 mm AND SHALL HAVE A No. M1-25 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 40 mm CONDUIT FOR FUTURE 115 VAC SERVICE.
- PROVIDE GROUND BUS INSIDE SPLICE CABINET.

DETAIL B

INTERSECTIONS RAISED MEDIAN

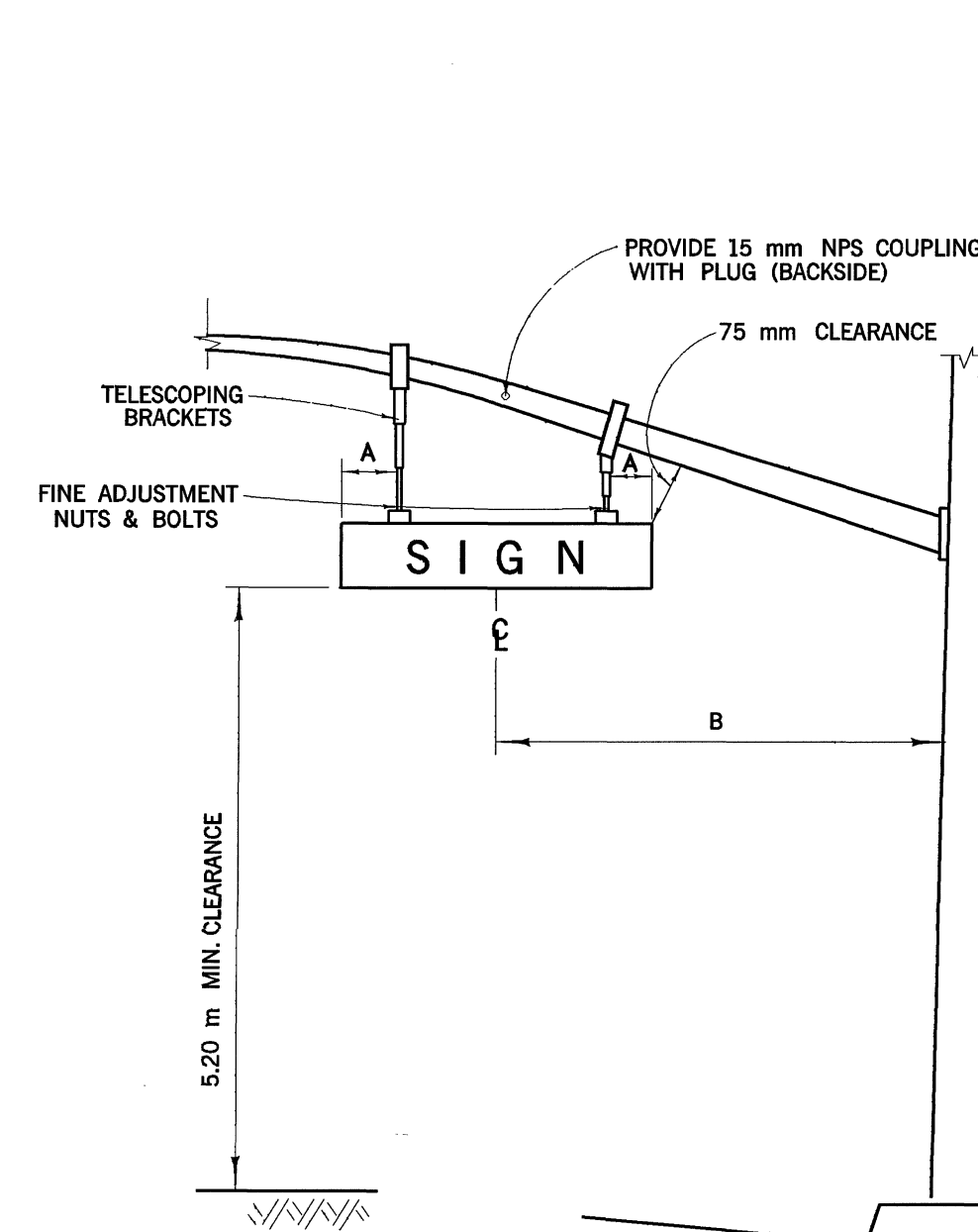


NOTES - DETAILS B

- SAWCUT AND JOIN EXISTING
- REMOVE CONCRETE
- CONSTRUCT 260 mm A.C. OVER NATIVE SOIL
- CONSTRUCT TYPE A1-8 CONCRETE CURB PER APWA STD. PLAN 120-0.

DETAIL C

REFLECTORIZED STREET NAME SIGN COMPONENTS

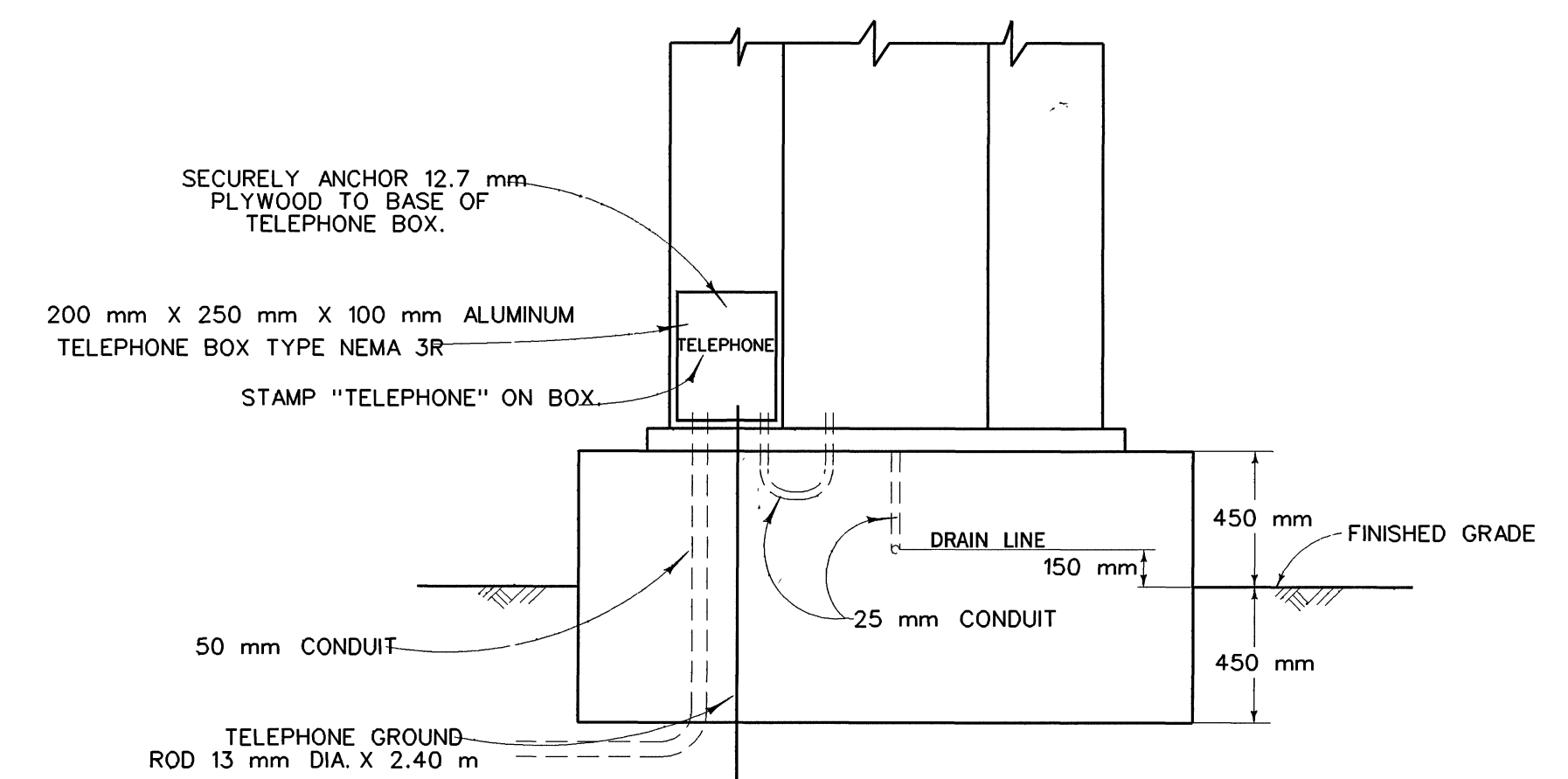


NOTES - DETAIL C

- A 450 mm (450 mm x 1800 mm SIGN); 600 mm (450 mm x 2400 mm SIGN)
- B 3.20 m CENTERLINE OF SIGN TO FACE OF POLE

DETAIL D

TELEPHONE SERVICE BOX

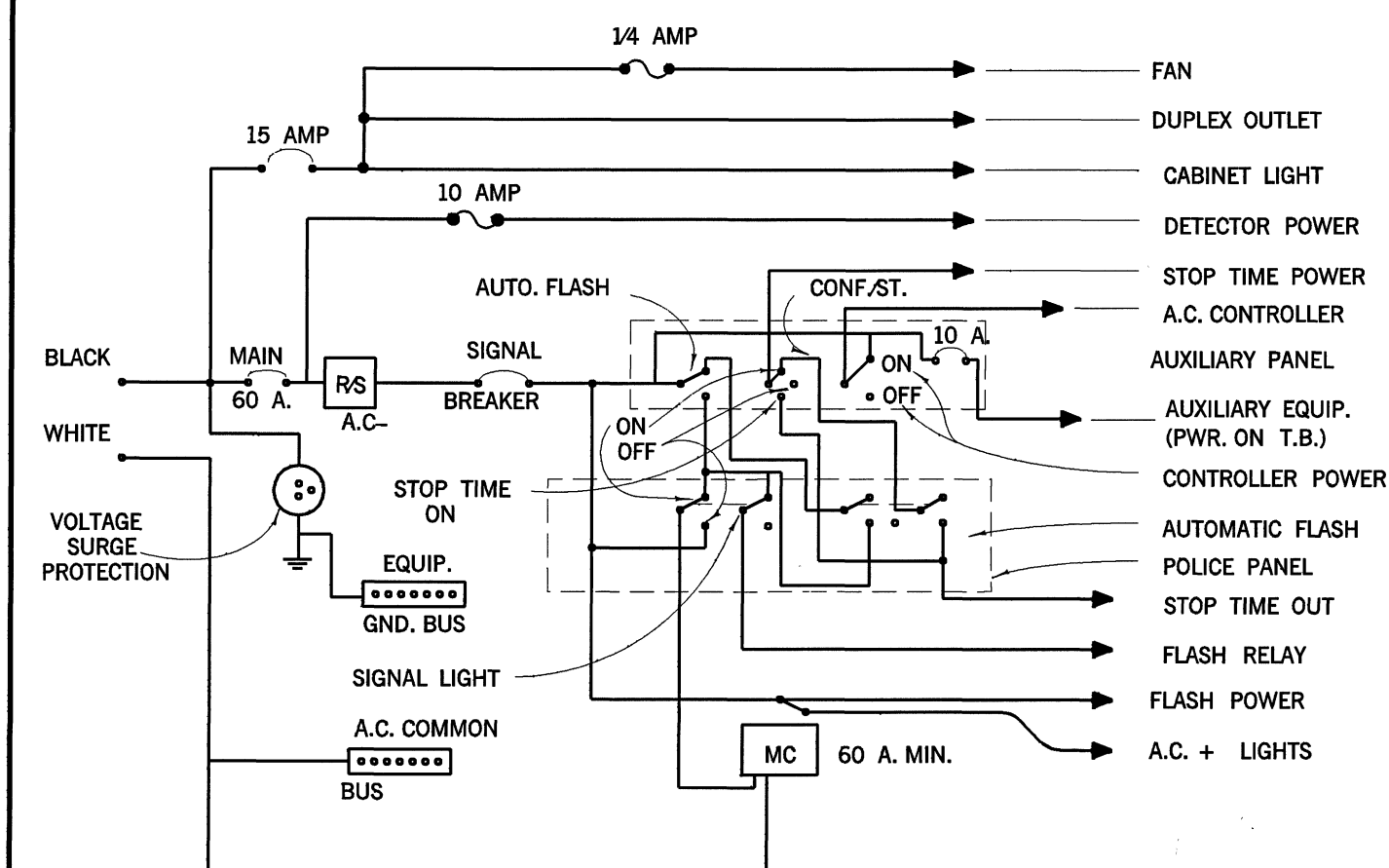


GENERAL NOTES :

- ALL WORK, MATERIALS AND EQUIPMENT SHALL CONFORM TO THE REQUIREMENTS OF THE CALIFORNIA, DEPARTMENT OF TRANSPORTATION, STANDARD PLANS DATED JULY 1997 AND STANDARD SPECIFICATIONS DATED JULY 1995 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 567-7800.
- THE ENGINEER SHALL APPROVE POLE AND LOOP DETECTION PLACEMENT IN THE FIELD PRIOR TO INSTALLATION.
- ALL CONDUITS SHALL BE 50 mm (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 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 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 300 mm (12") DIAMETER 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).
- DETECTOR LOOPS SHALL BE CIRCULAR (1.80 m DIAMETER) OR 1.80 m X 1.80 m WITH 3 m 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 AND SHALL BE WIRED IN SERIES.
- ALL QUADRUPOLE DETECTOR LOOPS SHALL BE TWO (2-4-2) TURNS.
- TRAFFIC CONTROLLER CABINET FOUNDATION SHALL BE 460 mm ABOVE AND BELOW FINISHED GRADE (SEE DETAIL D).
- INSTALL "CABINET DOOR OPEN" CIRCUIT IN CONTROLLER CABINET PER MANUFACTURES SPECIFICATIONS.

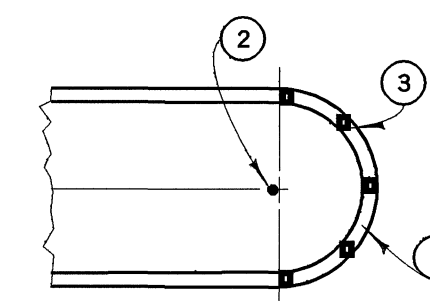
DETAIL G

CONTROLLER CABINET WIRING



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-1 ON TELESPAR POST AS INDICATED ON PLAN.
- INSTALL YELLOW REFLECTIVE PAVEMENT MARKERS ON TOP SURFACE OF MEDIAN CURB NOSE AT 600 mm C.C. SPACING (MINIMUM 5 MARKERS). PLACE REFLECTIVE SURFACE OF MARKERS PERPENDICULAR TO C OF ROADWAY.

3-29-86		ADDED NOTE 16.	ORANGE COUNTY PUBLIC FACILITIES & RESOURCES DEPARTMENT	
4-4-88		DELETED TYPE II SERVICE.		
12-8-88		ADDED INTERCONNECT SPLICE CABINET.		
11-18-91		MODIFIED INTERCONNECT SPLICE CABINET.		
6-7-93		MODIFIED CONTROLLER CABINET WIRING.		
1-1-97		MODIFIED INTERCONNECT SPLICE CABINET.	SIGNAL DETAIL SHEET	
3-4-97		MODIFIED OVERHEAD STREET NAME SIGN.		
3-4-97		MODIFIED DETECTOR LOOP NOTES.		
MARK	DATE	DESCRIPTION	PREPARED UNDER	SHEET
REVISIONS			SUPERVISION OF	DATE
DESIGNED	DATE	SCALE	NOT TO SCALE (METRIC)	DATE
DRAWN	CHECKED	DATE	W. O. NO.	OF 3
			ER10145	