

ORANGE COUNTY PUBLIC FACILITIES & RESOURCES DEPARTMENT

SANTA ANA, CALIFORNIA

JOHN W. SIBLEY, DIRECTOR

PLANS FOR CONSTRUCTION OF A TRAFFIC SIGNAL AT

OSO PARKWAY

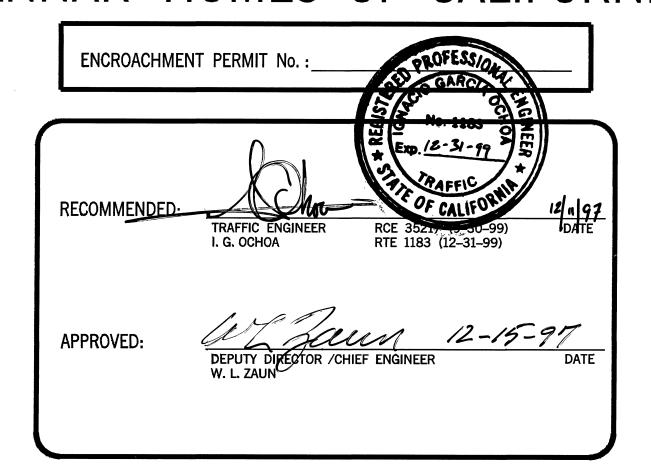
AND

BRIDLE PATH

DECEMBER 1997

FUNDED BY: COUNTY OF ORANGE & DEVELOPER

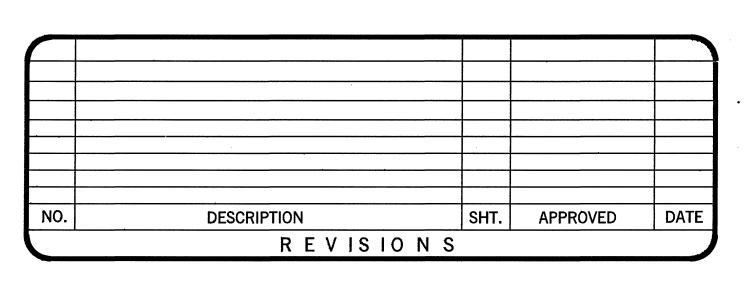
(LENNAR HOMES OF CALIFORNIA)



SHEET DESCRIPTION

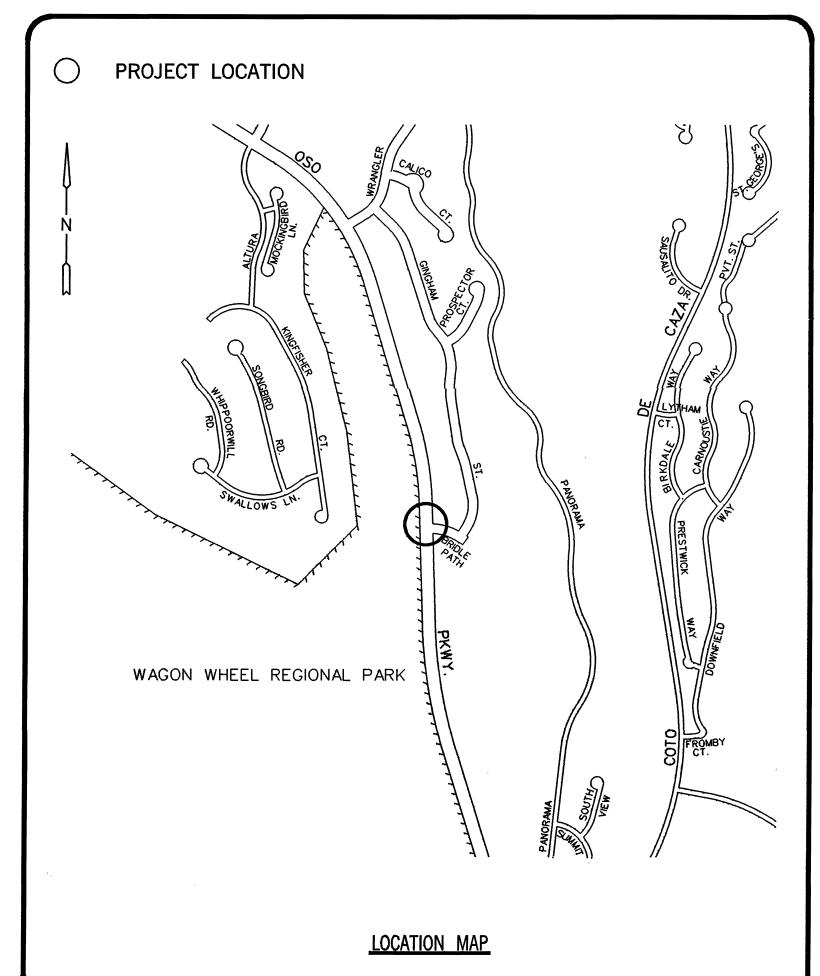
- 1 TITLE SHEET
- 2 SIGNAL PLA
- 3 DETOUR PLAN
- 4 DETAIL SHEET

UTILITY OWNER	CONTACT	PHONE NO.
COX COMMUNICATIONS	MICKEY MILLER	(714)240–8828
PACIFIC BELL	JACKIE SHELLY	(714)666–5749
THE GAS CO.	BOB WARTH	(714)634–3119
S.D.G.&E.	PATTI GOOD	(714)361–8047
SANTA MARGARITA WATER DISTRICT	DIA BADIR	(714)459–6514
USA	•	1-800-422-4133
		/



W. O. NO. <u>ER03088</u>

SHEET 1 OF



- ALSO SEE SHEET 3

AWG

14

CONDUCTOR

CIRCUIT

02

Ø5

Ø4P

Ø4PPB

Ø6PPB

PPB COMMON

SPARES

TOTAL

SCHEDULE

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3 3 - 3

3 3 3 6

1 1 1 2

3 3 3 6

16 19 13 38

_ | _ 1 2

3 6 — 6 3# 20

___ 3 2 2 2 4 # 10

___ 2 4

1 1 1 2 DLC

CONSTRUCTION NOTES: 1 —— CONSTRUCT P.C. CONCRETE TYPE "P"(38" OUTSIDE FLANGE) CONTROLLER CABINET FOUNDATION WITH NEW ANCHOR BOLTS.			POLE SCHEDULE									
2 - INSTALL COUNTY PROVIDED TRAFFIC CONTROLLER ASSEMBLY. FACE CABINET DOOR TOWARDS OSO PARKWAY.		POLE DA	TA	SIGNAL	H.P.	S.V. NAIRE	SIGNAL	MOUNTING	PED PUSH	BUTTON	FOUNDATION	REFLECTORIZE
FURNISH & INSTALL A TYPE III-B ELECTRICAL SERVICE AND FOUNDATION.	NO.	1	HEIGHT			WATTS		M.A. PED.		LE QUAD T		STREET NAME S (DOUBLE FACE
4 – FURNISH & INSTALL 2" CONDUIT, AND PULL ROPE TO ELECTRICAL SERVICE POINT. —— FURNISH & INSTALL EVP CABLE FROM END OF MASTARM TO CONTROLLER CABINET AND COIL 10'OF CABLE	(1)	TYPE 15	30'		12'	200		● SP-1-T	2	w	C 2'-6" x 5'-0"	Oso Pkwy.
INSIDE CONTROLLER CABINET.	2	TYPE 151A24-4-70	10'					● SP-1-T	4	N	s 2'-0" x 3'-0"	
6 - FURNISH & INSTALL 2" CONDUIT AND OR #5 PULL BOX (UNLESS OTHERWISE NOTED).	3	24–4–70	30'	35 ′	15 ′	200	SV-2-TA	2 MAS SP-1-T	4	N	C 2'-6" x 8'-0"	Bridle Path
FURNISH AND INSTALL DETECTOR LOOPS AS SHOWN PER GENERAL NOTES SHEET 3.	4	● 1A	10'				● TV-1 -				S 2'-0" x 3'-0"	
8 - INSTALL COUNTY PROVIDED SIGN AS INDICATED. CONTRACTOR TO PROVIDE NEW MOUNTING HARDWARE.		● 19–2–70	30'	25 ′	● 15'	200	● SV-1-T	1 MAS SP-1-T			C 2'-6" x 6'-0"	Bridle Path
REMOVE & SALVAGE THE EXISTING SIGN AS INDICATED. 10 - FURNISH & INSTALL CONDUCTORS AS INDICATED.	6	PPB POLE	4'–6"						2	W	S 1'-6" x 1'-6"	
SANDBLAST & REMOVE CONFLICTING STRIPING, STENCIL (IN BLOCK FORM) AND MARKERS AS SHOWN. PAINT 4" SOLID WHITE (PER DETAIL 9). PAINT 12" SOLID YELLOW. PAINT 4" DOUBLE YELLOW (PER DETAIL 22 OR 29). CONSTRUCT CURB RAMP CASE "C" PER APWA STD. PLAN 111–1 (W=8').	- CONT - CONT	T POLE LOC TRACTOR TO TRACTOR TO GENERAL NO	POTHOLE VERIFY	ALL POL	D BY EN E FOUNI AND CA	NGINEER DATION L ABINET BO	IN THE FIE LOCATIONS. OLT PATTE	CRNS PRIOR TO	OVIDED BY	COUNTY OUNDATIONS	C = C.I.D.H. S = SQUARE.	
16 - FURNISH & INSTALL LUMINAIRE AND LAMP. —— FURNISH & INSTALL CANTILEVER ARM FOR REFLECTORIZED STREET NAME SIGN, MOUNT @ 18'. 18 - STENCIL AS SHOWN. —— FURNISH & INSTALL PEDESTRIAN PUSH BUTTONS AND PLATES PER JULY 1995 CALTRANS SPECIFICATIONS								`				
R/W RP.B. POST 6 3 A P.P. B. POST 6 12 50' 16 0 0	04	1 A	4 4 8 04		'	7	A/ **	704		6" W		
5 = 5	8 R73	3-3)(50'	12 5 1-05 - 1			235	
238 - 238 - 239	13	, na	4-2		[F	13	R REM	MOVE SDG&E		 W		
241 ====================================		K3	J 06		1.		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~					
S 238 2 41	19	A C	06		16	FH(P)	3#6 10	4	=			
	19 05 13	3 11	#6 PB		16	FH(P)	3#6	4				
	19 05 13	3 11	#6 PB 19		16	FH(P)	3#6	4				
	19 Ø5 13	3 11 	#6 PB 19 06		16	FH(P)	3#6	4 04				
	05 13 06P	3 11	#6 PB 19 06		16	FH(P)	1 3	4	—————————————————————————————————————			
7	05 13 06P	3 11	#6 PB 19 06	A 06F	16 5	FH(P)	1 3	4 04 04 04 04 04 04 04 04 04 04 04 04 04	P PAC E		P) FENCI	
7 = 50° 12 R26 P SNS P S	05 13 06P 19	3 11	#6 PB 19 06	A 06F	16 5 6	FH(P)	3#6 10 1 2	6	P PAC E		PFENCE	
7 = 50' 12 R26 P SNS P	19 05 13 06P	3 11 7	#6 PB 19 19	A 06F	16 5 6	FH (P) CB 4 4 6 10 4#10 (WIRE	1 3 2 LUM. TO METEREI	6	P PAC E		P FENCI	
7	05 13 06P	3 11 7 04 2	#6 PB #6 PB		16 5 6	FH (P) CB 4 4 6 10 4#10 (WIRE	1 3 2 LUM. TO METEREL	6	P PAC E		P FENCI	
R/W 10 2 DLC 6 10 2 DL	19 05 13 06P 19 16	3 11 7 1-04 2-	#6 PB #6 PB #6 PB	A 06F 9 P R28	16 5 6	FH (P) CB 4 4 6 10 4#10 (WIRE	1 3 2 LUM. TO METEREL	6	P PAC E		P FENCI	

SCHEDULE

SIGNAL COMMON 1 1 1 2

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2 2 2 4

3 3 3 6

_ 2 2

- 1 4 7

3" 3" 2-3"

CONDUCTOR

CIRCUIT

EVP

LUMINAIRE

TOTAL

Ø5

TOTAL

CONDUIT SIZE

AWG

P TELECOMM. CAB.

PHASE		DIAGRAM				
VEHICULAR & PEDESTRIAN MOVEMENTS	↓	△ △		→		
NEMA PHASE	02	04	Ø5	Ø 6		
COORDINATION FUNCTION	Ж	ж	ж			
* DETERMINED BY MAS COMPUTER DURING COORDINATED OPERA SEQUENCE WITH CALI	Ø2+1		02+06	0 4		

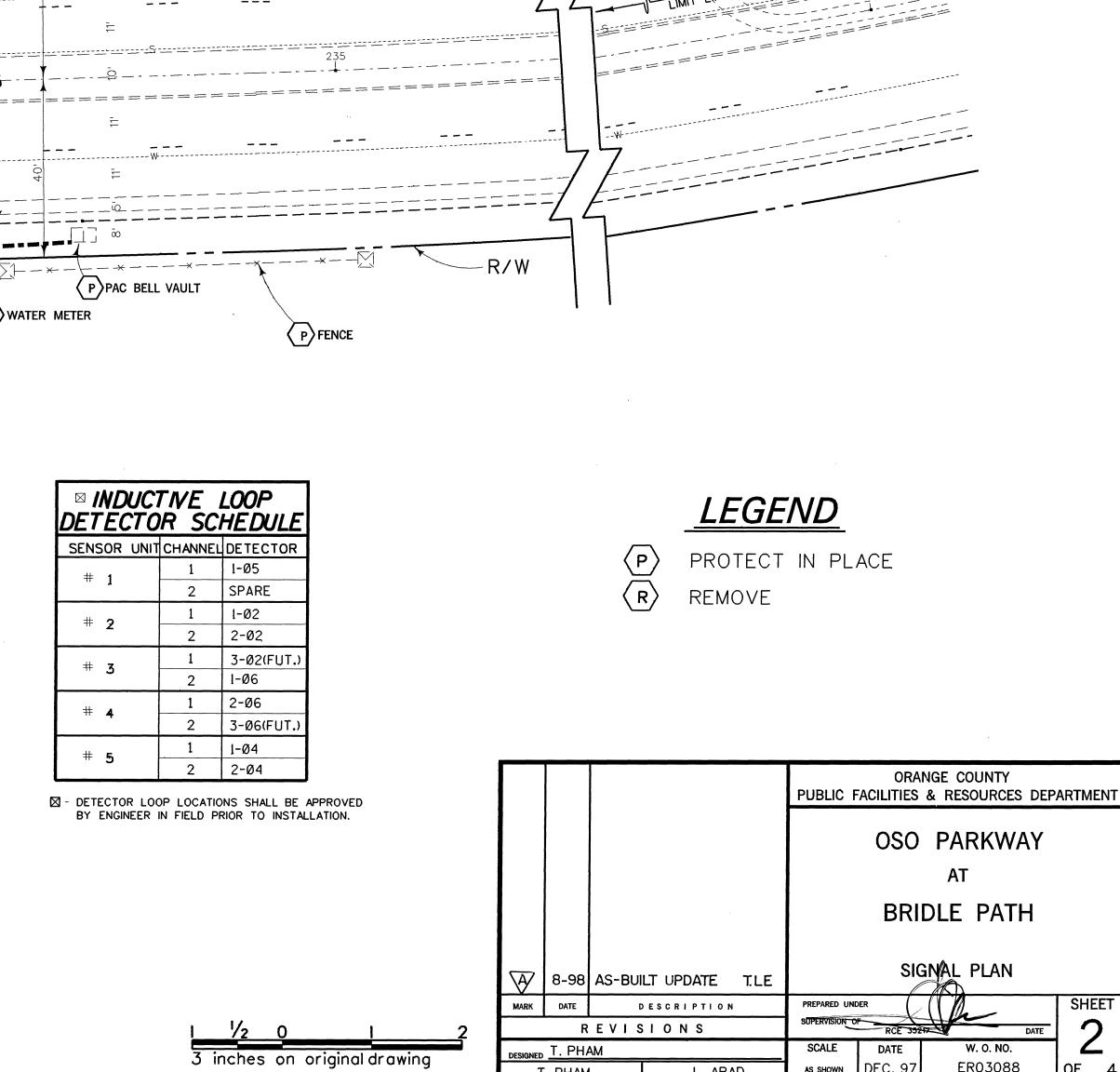
P)INSTALLATION C

ER03088

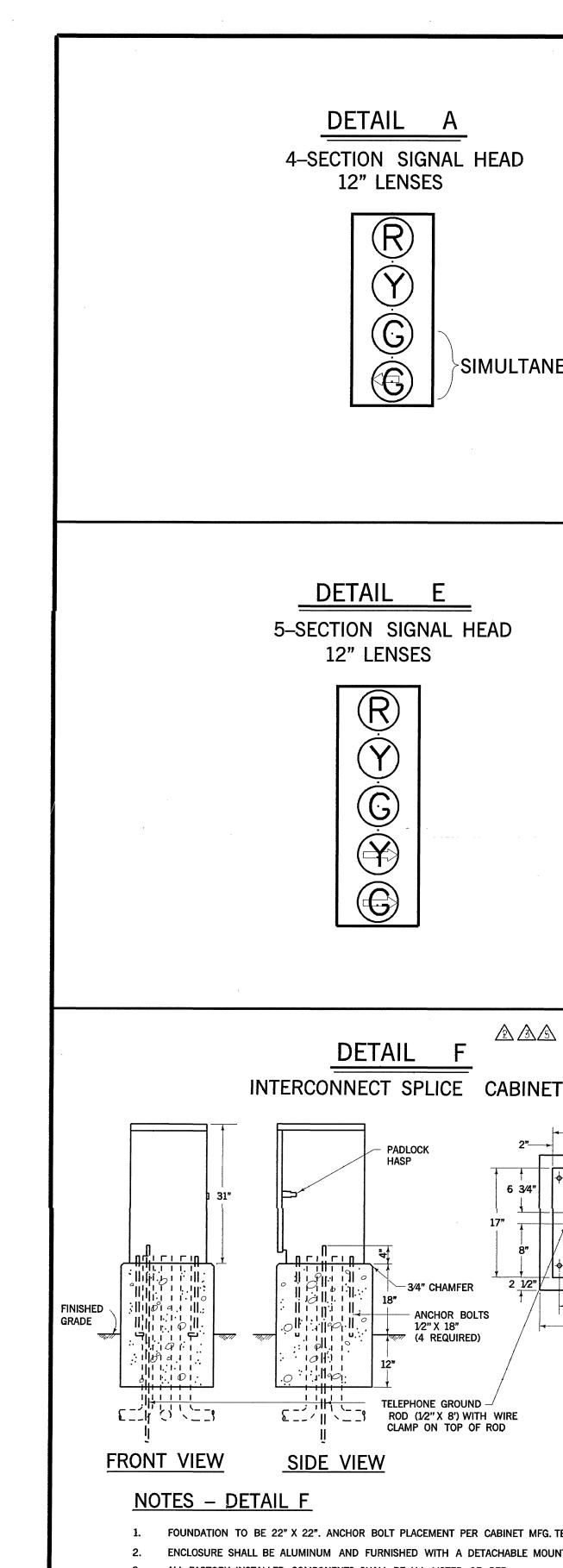
as shown DEC. 97

CHECKED L. ABAD

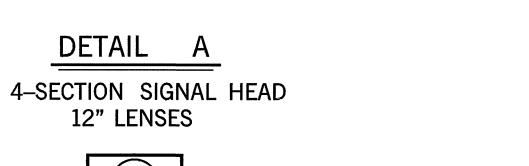
1" = 20'

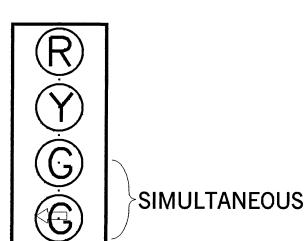


O40.3

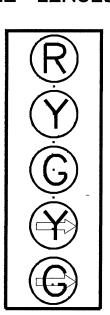


040.4



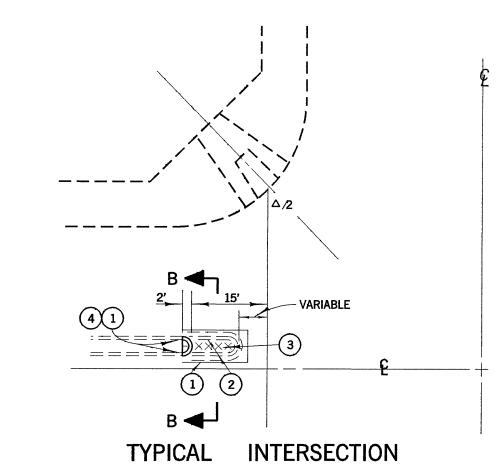


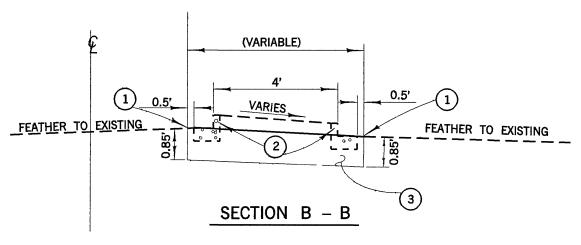
DETAIL E 5-SECTION SIGNAL HEAD 12" LENSES



DETAIL

DETAIL B INTERSECTIONS RAISED MEDIAN



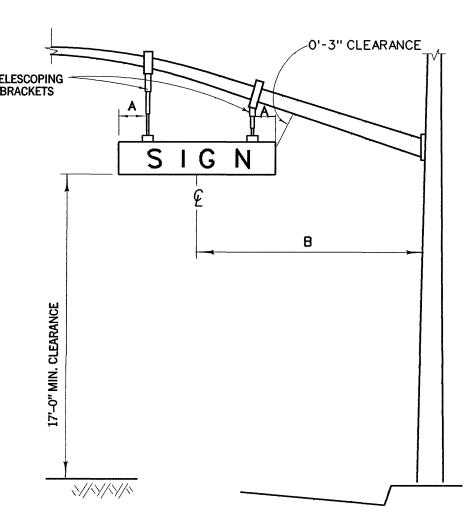


NOTES - DETAILS B

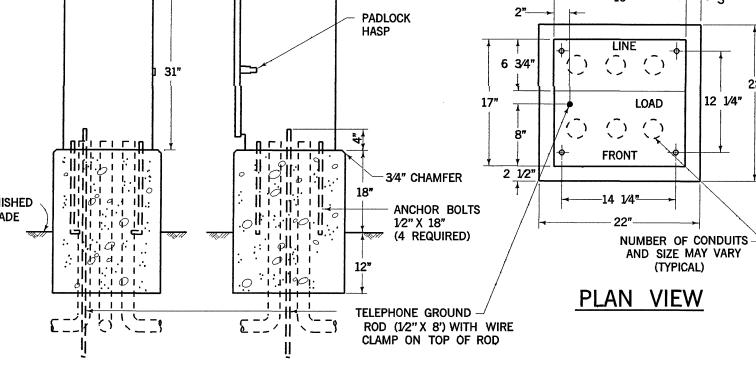
- SAWCUT AND JOIN EXISTING
- REMOVE CONCRETE
- CONSTRUCT 0.85' AC OVER NATIVE SOIL
- CONSTRUCT TYPE A1-8 CONCRETE CURB PER APWA STD. PLAN 120-0.

DETAIL C

REFLECTORIZED STREET NAME SIGN COMPONENTS



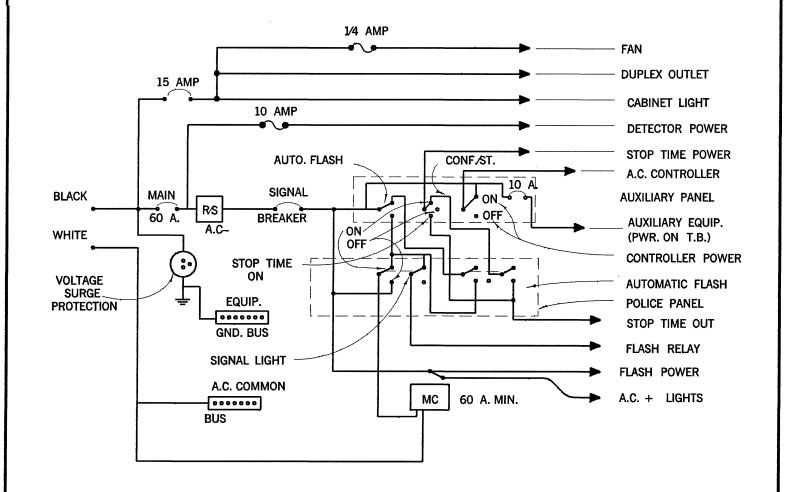
- NOTES DETAIL C
- A 1'-6" (18"x72" SIGN), 2'-0" (18"X96" SIGN)
- B 10'-6" CENTERLINE OF SIGN TO FACE OF POLE



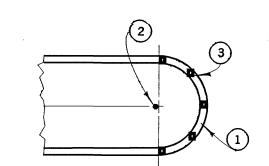
SIDE VIEW

- 1. FOUNDATION TO BE 22" X 22". ANCHOR BOLT PLACEMENT PER CABINET MFG. TEMPLATE.
- ENCLOSURE SHALL BE ALUMINUM AND FURNISHED WITH A DETACHABLE MOUNTING BASE.
- 3. ALL FACTORY INSTALLED COMPONENTS SHALL BE U.L. LISTED OR PER PUBLISHED N.E.C. STANDARDS.
- 4. 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. MI-25 AND R-841 STANDOFF FASTENED IN THE CENTER OF THE PANEL.
- 5. 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.
- 6. PROVIDE 1 1/2" CONDUIT FOR FUTURE 115 VAC SERVICE.
- 7. PROVIDE GROUND BUS INSIDE SPLICE CABINET.

DETAIL CONTROLLER CABINET WIRING



DETAIL H RAISED MEDIAN MARKING

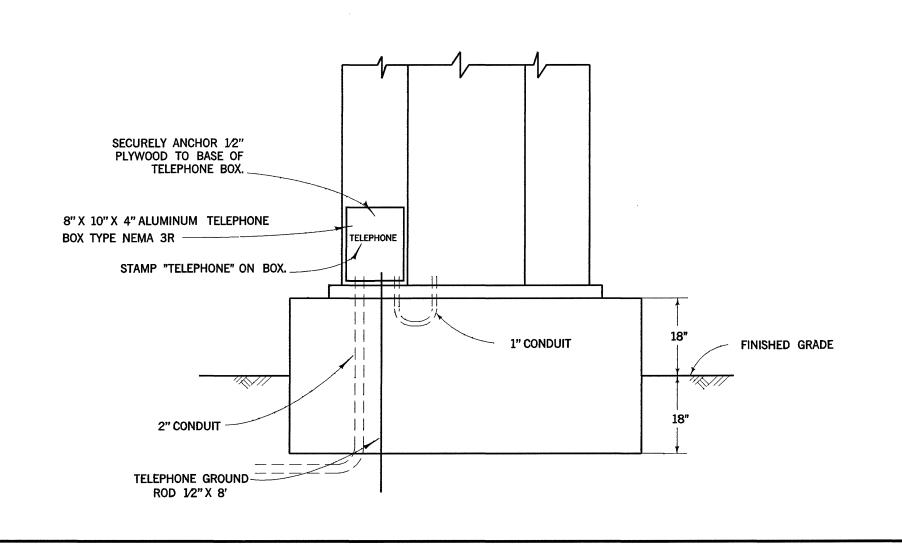


NOTES - DETAIL H

- 1) PAINT MEDIAN NOSE WITH HIGHLY REFLECTIVE PREMIXED WHITE TRAFFIC PAINT WITH GLASS BEADS.
- (2) INSTALL FLEXIBLE VERTICAL TYPE K MARKER, R7, R10 OR TYPE N-1 ON TELESPAR POST AS INDICATED ON PLAN.
- (3) 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 PERPENDICULAR TO C OF ROADWAY.

DETAIL D

TELEPHONE SERVICE BOX



GENERAL NOTES:

- 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.
- 4. THE ENGINEER SHALL APPROVE POLE AND LOOP DETECTION PLACEMENT IN THE FIELD PRIOR TO INSTALLATION.
- 5. ALL CONDUIT SHALL BE 2" UNLESS OTHERWISE NOTED.
- 6. ALL PULL BOXES SHALL BE #5 UNLESS OTHERWISE NOTED.
- 7. ALL SALVAGED EQUIPMENT SHALL BE DELIVERED UNDAMAGED, BY CONTRACTOR, 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.
- 8. CONTRACTOR SHALL PROVIDE ALL NECESSARY TELEPHONE AND ELECTRICAL SERVICE LINES AND INTERCONNECT HOOK-UPS BETWEEN THE LOCAL CONTROLLER AND THE SYSTEM MASTER.
- 9. PEDESTRIAN INDICATIONS SHALL BE INTERNATIONAL SYMBOL.
- 10. PEDESTRIAN PUSH BUTTONS SHALL BE TYPE B WITH INTERNATIONAL SYMBOL PLATE.
- 11. ALL VEHICLE INDICATIONS SHALL BE 12" DIAMETER WITH BACKPLATES, GLASS REFLECTORS, AND GLASS LENSES, UNLESS SHOWN
- 12. CONTRACTOR SHALL POTHOLE CONFLICTING UTILITIES AS DIRECTED BY ENGINEER.
- 13. CONTRACTOR SHALL AVOID DAMAGING EXISTING UTILITIES. (SEE SPECIAL PROVISIONS).
- 14. DETECTOR LOOPS SHALL BE CIRCULAR 6' DIAMETER WITH 9' SPACING IN THE DIRECTION OF TRAVEL UNLESS OTHERWISE NOTED.
- 15. ALL DETECTOR CABLE HOMERUNS SHALL BE IN THE CROSSWALK AREA.
- \triangle 16. All detector loops shall be four (4) turns.
- 17. ALL QUADRUPOLE DETECTOR LOOPS SHALL BE TWO (2-4-2) TURNS.
- 18. TRAFFIC CONTROLLER CABINET FOUNDATION SHALL BE 18" ABOVE AND BELOW FINISHED GRADE (SEE DETAIL D).
- 19. INSTALL "CABINET DOOR OPEN" CIRCUIT IN CONTROLLER CABINET PER MANUFACTURE'S SPECIFICATIONS.
- 20. CONCRETE REPLACEMENT TO MATCH EXISTINGS.

	3-29-88 4-4-88	ADDED NOTE 16. DELETED TYPE II SERVICE. ADDED INTERCONNECT SPLICE CABINET.	PUBLIC F	ARTMENT		
	12-8-88 11-18-9 6-7-93 1-1-97 3-4-97			GNAL	DETAIL SHE	ΈΤ
MARK	DATE	DESCRIPTION	PREPARED UND	SHEET		
		REVISIONS	SUPERVISION O	F	DATE	1
DESIGNED			SCALE	DATE	W. O. NO.	7
DRAWN _		CHECKED	NOT TO SCALE	DEC. 97	ER03088	OF 4