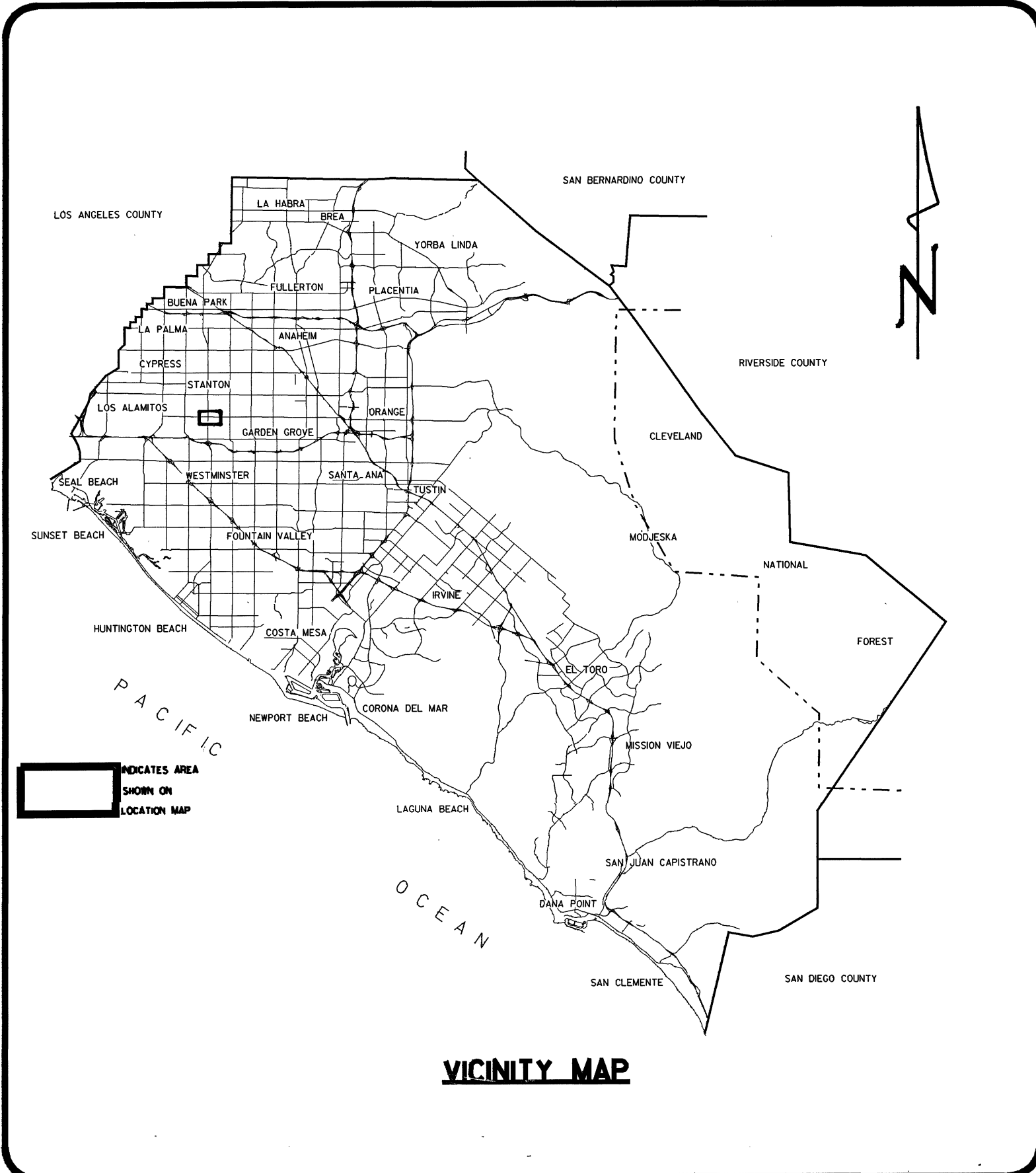
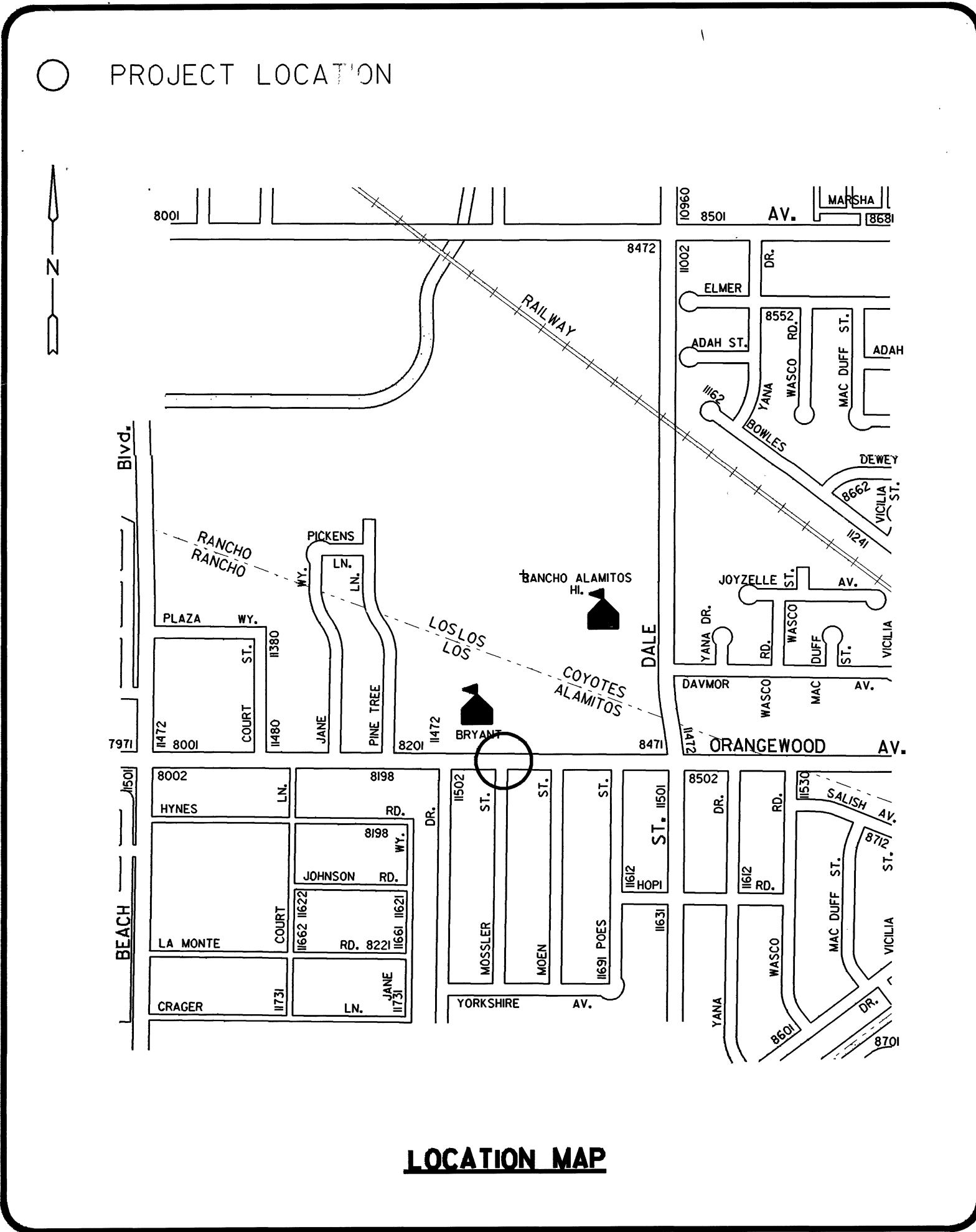


DRAWING NUMBER @ MOSSLER
ORANGE COUNTY
PLAN-HOLD CORPORATION • IRVINE, CALIFORNIA
DESIGNED BY: MANUEL OZUNA
REVISIONS: 1/1/94
DRAFTSMAN: J. R. SMITH
DATE: 4/1/94



VICINITY MAP



LOCATION MAP

ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY

SANTA ANA, CALIFORNIA
M. RUANE, DIRECTOR

PLANS FOR CONSTRUCTION OF
TRAFFIC SIGNAL
AT

ORANGEWOOD AVENUE

AT

MOSSLER STREET

APRIL 1994

FUNDED BY: COMMUNITY DEVELOPMENT BLOCK GRANT

CITY OF GARDEN GROVE
APPROVED: William Patapoff 4/1/94
CITY ENGINEER DATE

EM A - TRANSPORTATION
SUBMITTED: Donna L. Cruz 4/1/94
SF. CIVIL ENGINEER
DOMINGO L. CRUZ
RECOMMENDED: [Signature] 4/1/94
TRAFFIC ENGINEER
I. G. OCHOA
APPROVED: [Signature] 4/1/94
DIRECTOR OF TRANSPORTATION
KEN R. SMITH DATE

EM A - HOUSING & REDEVELOPMENT
RECOMMENDED: [Signature] 4/12/94
DIVISION MANAGER
RICK EKER DATE
APPROVED: [Signature] 4/14/94
DIRECTOR OF HOUSING & REDEVELOPMENT
DHONGCHAI PUSAVAT DATE

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

"AS-BUILTS"
INSPECTOR : J. DELSIGNE
SUPER. INSPECTOR : A. KEER
CONTRACTOR : DBX INC.
DATE TURN ON : 12-23-94

UTILITY OWNER	CONTACT	PHONE NO.
THE GAS COMPANY	JOE MORENO	(714)634-3115
CITY OF GARDEN GROVE WATER DEPT.	MARIAN DAN	(714)741-5396
SOUTHERN CALIFORNIA EDISON CO.	SHARLA JENSEN	(714)870-3219
PACIFIC BELL	MARK BAY	(714)259-4487
GARDEN GROVE UNIFIED SCHOOL DISTRICT	RON SUTTLE	(714)663-6185
PARAGON CABLE	MIKE BOGNER	(714)895-6886
UNDERGROUND SERVICE ALERT		1-(800)-422-4133

BENCH MARK:

BASIS OF BEARINGS:

NO.	AS-BUILT UPDATE	DESCRIPTION	SHT.	APPROVED	DATE
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					
41					
42					
43					
44					
45					
46					
47					
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
60					
61					
62					
63					
64					
65					
66					
67					
68					
69					
70					
71					
72					
73					
74					
75					
76					
77					
78					
79					
80					
81					
82					
83					
84					
85					
86					
87					
88					
89					
90					
91					
92					
93					
94					
95					
96					
97					
98					
99					
100					

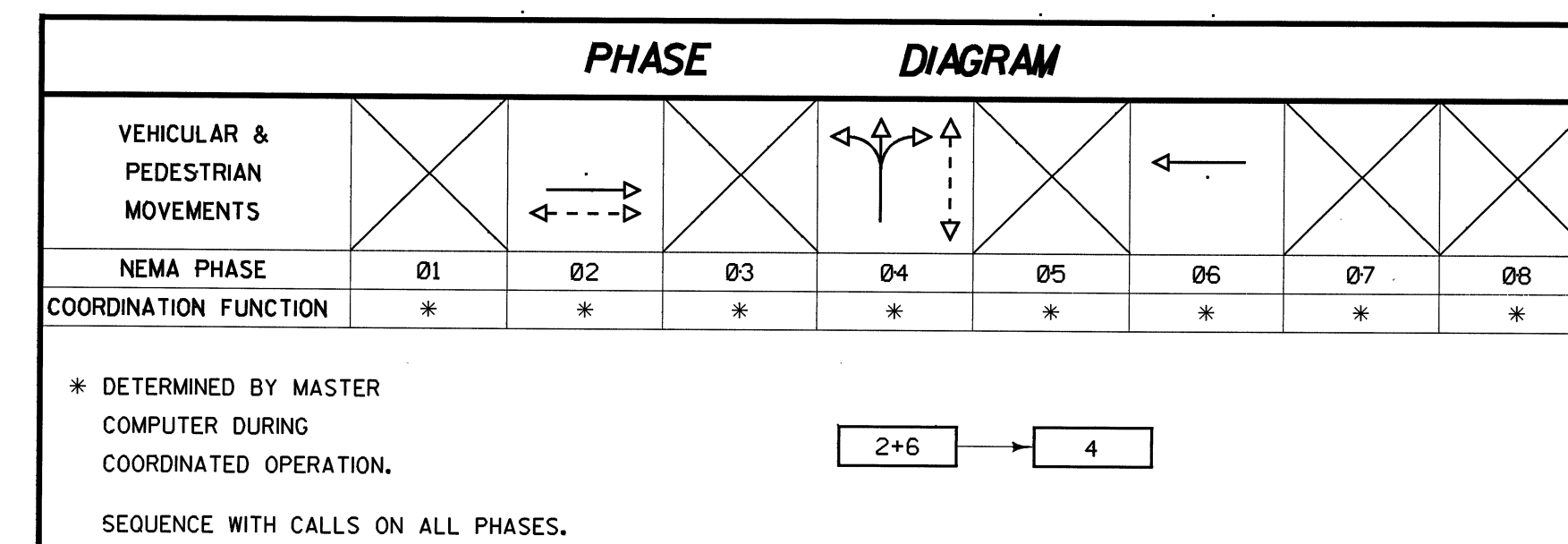
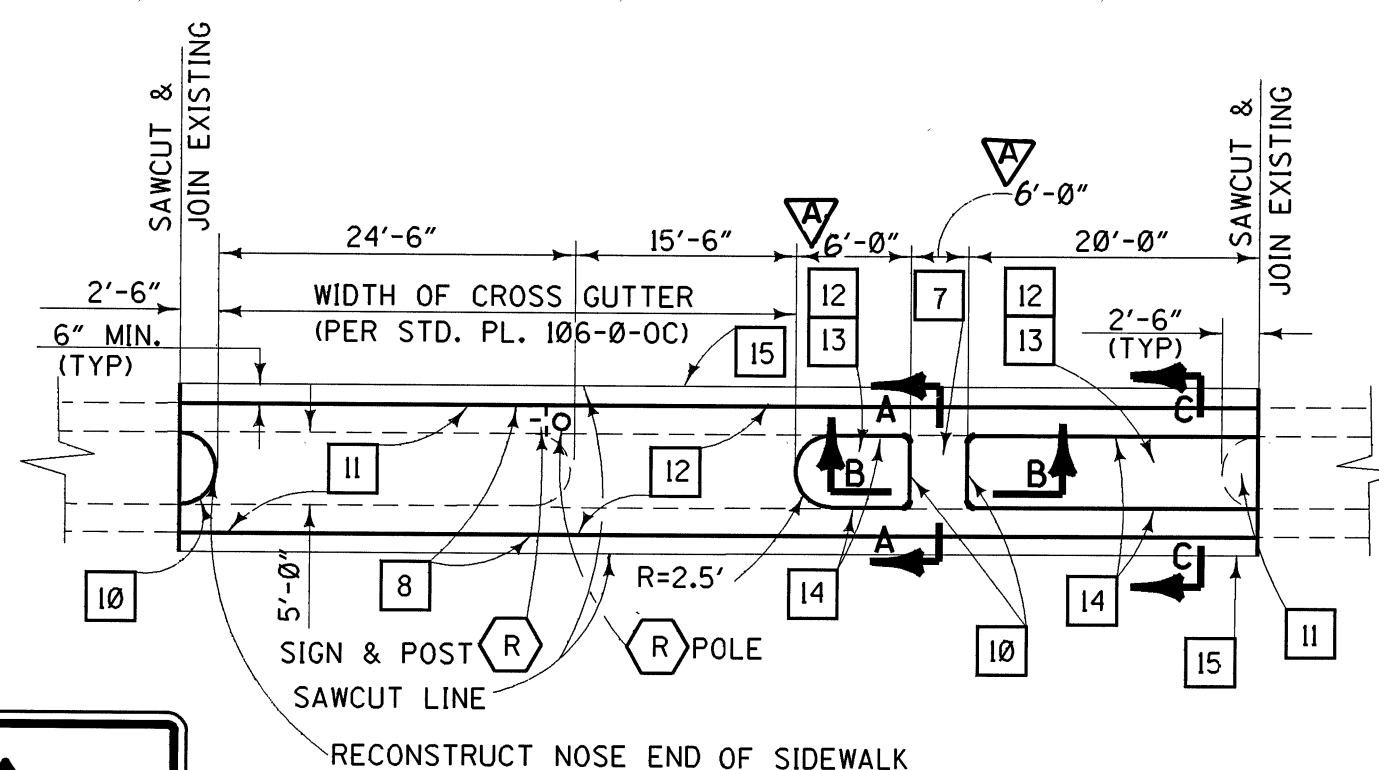
W. O. NO. EC41189
SHEET 1 OF 4

CONSTRUCTION NOTES:

- [1] — CONSTRUCT P.C.C. CONCRETE TYPE "P" CONTROLLER CABINET FOUNDATION.
- [2] — FURNISH & INSTALL TRAFFIC CONTROLLER IN TYPE "P" ALUMINUM CABINET, PER THIS PLAN AND THE SPECIAL PROVISIONS.
- [3] — FURNISH & INSTALL TYPE II SERVICE.
- [4] — FURNISH & INSTALL 2" CONDUIT, NO. 6 PULL BOXES, AND PULL ROPE TO ELECTRICAL SERVICE POINT PER DETAIL "K" OF THIS SHEET.
- [5] — FURNISH & INSTALL 2" CONDUIT #5 PULL BOX AND 6 PAIR#22 TWISTED, SHIELDED INTERCONNECT TELEPHONE CABLE FOR TELEPHONE SERVICE CONNECTION PER DETAIL "D" ON SHEET 4, DETAIL "L" THIS SHEET & THE SPECIAL PROVISIONS.
- [6] — FURNISH & INSTALL 2" CONDUIT, #5 PULL BOXES (UNLESS OTHERWISE NOTED), AND CONDUCTORS AS INDICATED.
- [7] — CONSTRUCT ASPHALT CONCRETE ACCESS OPENING PER DETAIL "M" THIS SHEET.
- [8] — CONSTRUCT P.C.C. CROSS GUTTER PER DETAIL "M" THIS SHEET AND PER OCEMA STANDARD PLAN 106-O-OC. MATCH & JOIN EXISTING GRADE & FLOWLINE.
- [9] — FURNISH & INSTALL SIGN AS SHOWN PER PLAN.
- [10] — CONSTRUCT P.C.C. CURB TYPE AI-6 PER OCEMA STANDARD PLAN 104-O-OC AND DETAIL "M" THIS SHEET.
- [11] — SAWCUT & REMOVE EXISTING SIDEWALK, CURB & GUTTER PER DETAIL "M" THIS SHEET.
- [12] — SAWCUT & REMOVE EXISTING CROSS GUTTER PER DETAIL "M" THIS SHEET.
- [13] — CONSTRUCT 4' WIDE SIDEWALK PER DETAIL "M" THIS SHEET AND PER OCEMA STANDARD PLAN 1205.
- [14] — CONSTRUCT P.C.C. CURB TYPE A2-6 PER OCEMA STANDARD PLAN 104-O-OC AND DETAIL "M" THIS SHEET.
- [15] — CONSTRUCT 0.67' A.C. PER DETAIL "M" THIS SHEET. SAWCUT AND REMOVE EXISTING A.C.
- [16] — FURNISH & INSTALL PEDESTRIAN BARRICADE WITH R96/R96A SIGNS PER CALTRANS STD. PLANS TYPE I ES-5F.
- [17] — CONSTRUCT P.C.C. ACCESS RAMP PER EMA STD. PLAN 102-O-OC AND SECTION D-1 "PERMITS" OF THE SPECIAL PROVISIONS.



45" X 36" BLACK ON WHITE
DETAIL "N"
N.T.S.



POLE SCHEDULE																
POLE DATA			SIGNAL			H.P.S.V. LUMINAIRE		SIGNAL MOUNTING			PED PUSH BUTTON		FOUNDATION		ISNS TYPE *A	
NO.	TYPE	HEIGHT	M.A.	M.A.	WATTS	VEH.	M.A.	PED.	PHASE	POLE	QUAD	TYPE	SIZE	(DOUBLE FACE)		
①	1A	10'	—	—	—	TV-1	—	SP-1-CS	2	S	S	S	2'-0"x3'-0"	—		
②	17-3-70	30'	20'	12'	200	SV-2-TD	MAS	—	6	S	C	C	2'-6"x8'-0"	Mossler		
③	17-3-70	30'	20'	12'	200	SV-2-TD	—	SP-1-CS	4	6	E	S	C	2'-6"x7'-0"	☒ Orangewood	
④	17-3-70	30'	20'	12'	200	SV-1-T	MAS	SP-2-CS	4	W	C	C	2'-6"x8'-0"	Mossler		
⑤	1A	7'	—	—	—	—	—	SP-1-CS	2	N	S	C	2'-0"x3'-0"	—		

EXACT POLE LOCATIONS DETERMINED BY ENGINEER IN THE FIELD. POTHOLE POLE FOUNDATION LOCATIONS PRIOR TO ORDERING POLES.

C = C.I.D.H. ☒ = SINGLE FACE.
S = SQUARE.

BRYANT ELEMENTRY SCHOOL

ORANGEWOOD

AVENUE

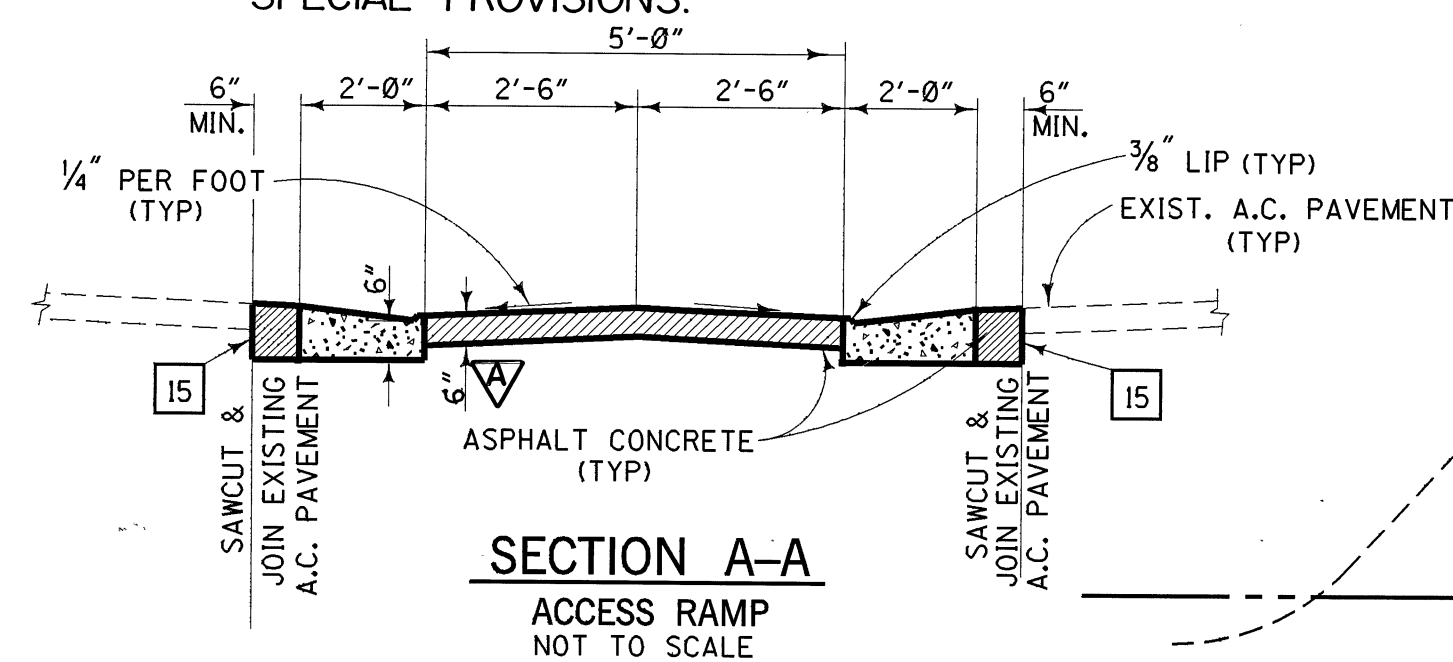
CITY OF GARDEN GROVE
F.S.
COUNTY OF ORANGE

GENERAL NOTES:

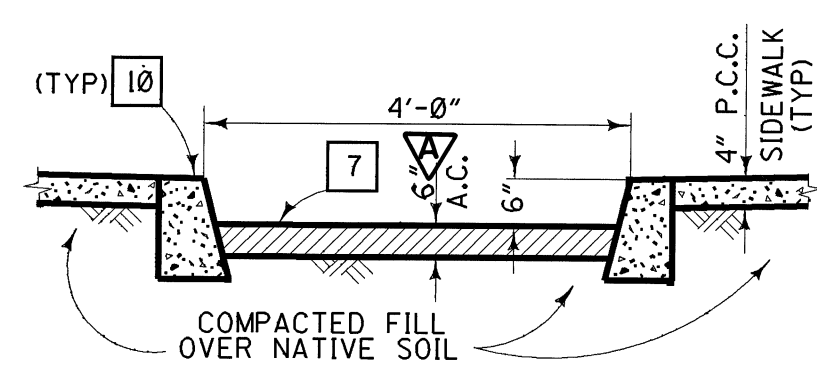
SEE SHEET 4

LEGEND

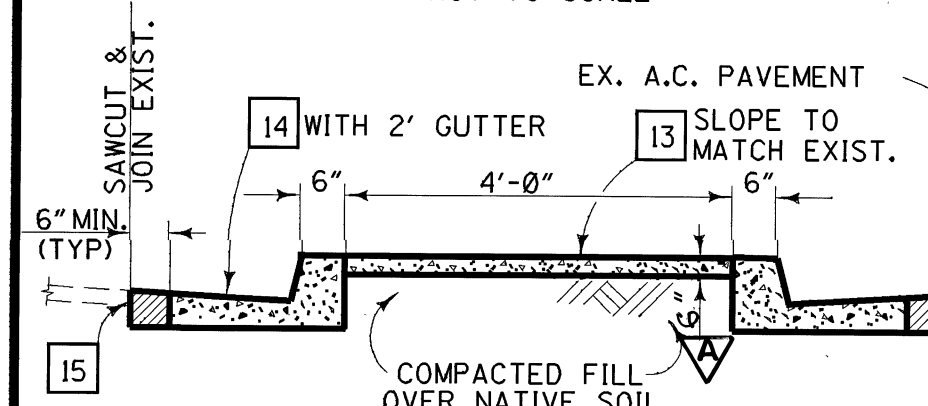
 REMOVE



SECTION A-A
ACCESS RAMP
NOT TO SCALE



SECTION B-B
ACCESS RAMP
NOT TO SCALE



SECTION C-C
NOT TO SCALE

☒ INDUCTIVE LOOP DETECTOR SCHEDULE		
SENSOR UNIT	CHANNEL	DETECTOR
# 1	1 (2)	1-02 [1]
	2	2-02
# 2	1	3-02 [2]
	2 (6)	1-06 [3]
# 3	1	2-06
	2	3-06 [4]
# 4	1	1-04 [5]
	2	SPARE

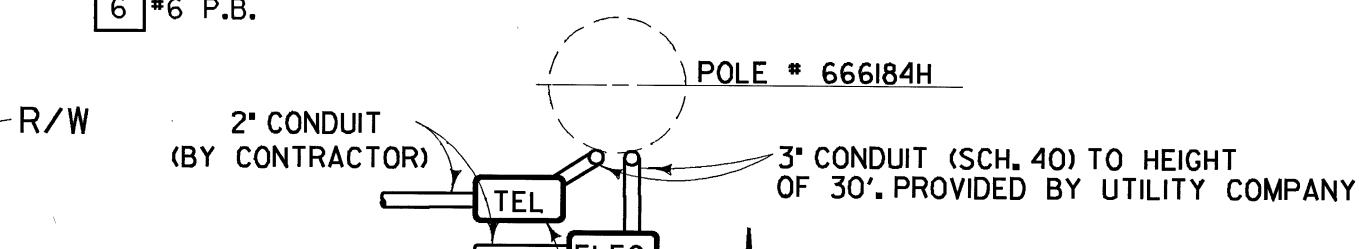
☒ - DETECTOR LOOP LOCATIONS SHALL BE APPROVED BY ENGINEER IN FIELD PRIOR TO INSTALLATION. ALL DETECTOR UNITS SHALL BE RACK MOUNTED, DUAL CHANNEL, DUAL OUTPUT PER CHANNEL WITH INTEGRAL COLORGATED EXTENSION AND DELAY CAPABILITY. OUTPUT 'A' SHALL BE TIMED. OUTPUT 'B' SHALL BE PRESENCE MODE FOR SYSTEM SAMPLING ONLY.

[#] = VEHICLE COUNTING SYSTEM INPUT NUMBER.

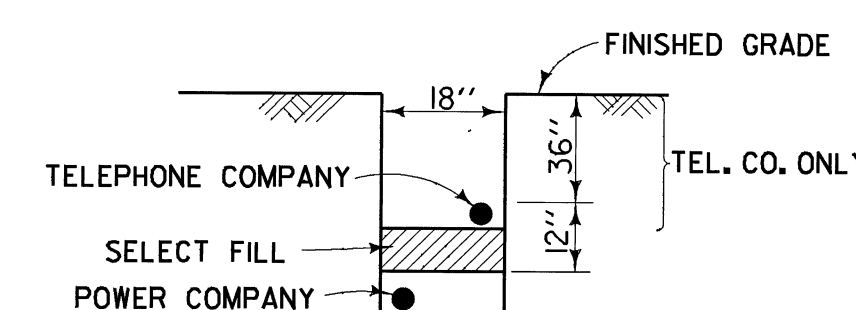
CONDUCTOR		SCHEDULE					CONDUCTOR		SCHEDULE				
AWG	CIRCUIT	RUN					AWG	CIRCUIT	RUN				
		①	②	③	④	⑤			①	②	③	④	⑤
# 14	Ø1						# 10	SIGNAL COMMON	1	1	1	2	2
	Ø2			3	6	6		LUMINAIRE	2	2		2	
	Ø3							TOTAL	3	3	1	4	2
	Ø4	3	3		3	3	DLC	Ø1					
	Ø5							Ø2			3	3	3
	Ø6	3	3	3	6	6		Ø3				1	1
	Ø7							Ø4					
	Ø8							Ø5					
	Ø2P			2	2	2		Ø6		3		3	3
	Ø4P							Ø7					
	Ø3P		2		2	2		Ø8					
	Ø6P	2	2		2	2	TOTAL		3	3	7	7	
	Ø2PPB			1	2	2	CONDUIT SIZE		2"	2"	2"	3"	2-3"
	Ø3PPB												
	Ø4PPB		1		1	1							
	Ø6PPB	1	1		1	1							
	PPB COMMON	1	1	1	2	2							
	ISNS	2	2		2								
SPARES	3	3	3	6	6								
TOTAL	15	18	13	35	33								

SCALE, 1" = 20'

MOSSLER STREET
R/W



DETAIL "K"
(POWER SUPPLY)
N.T.S.



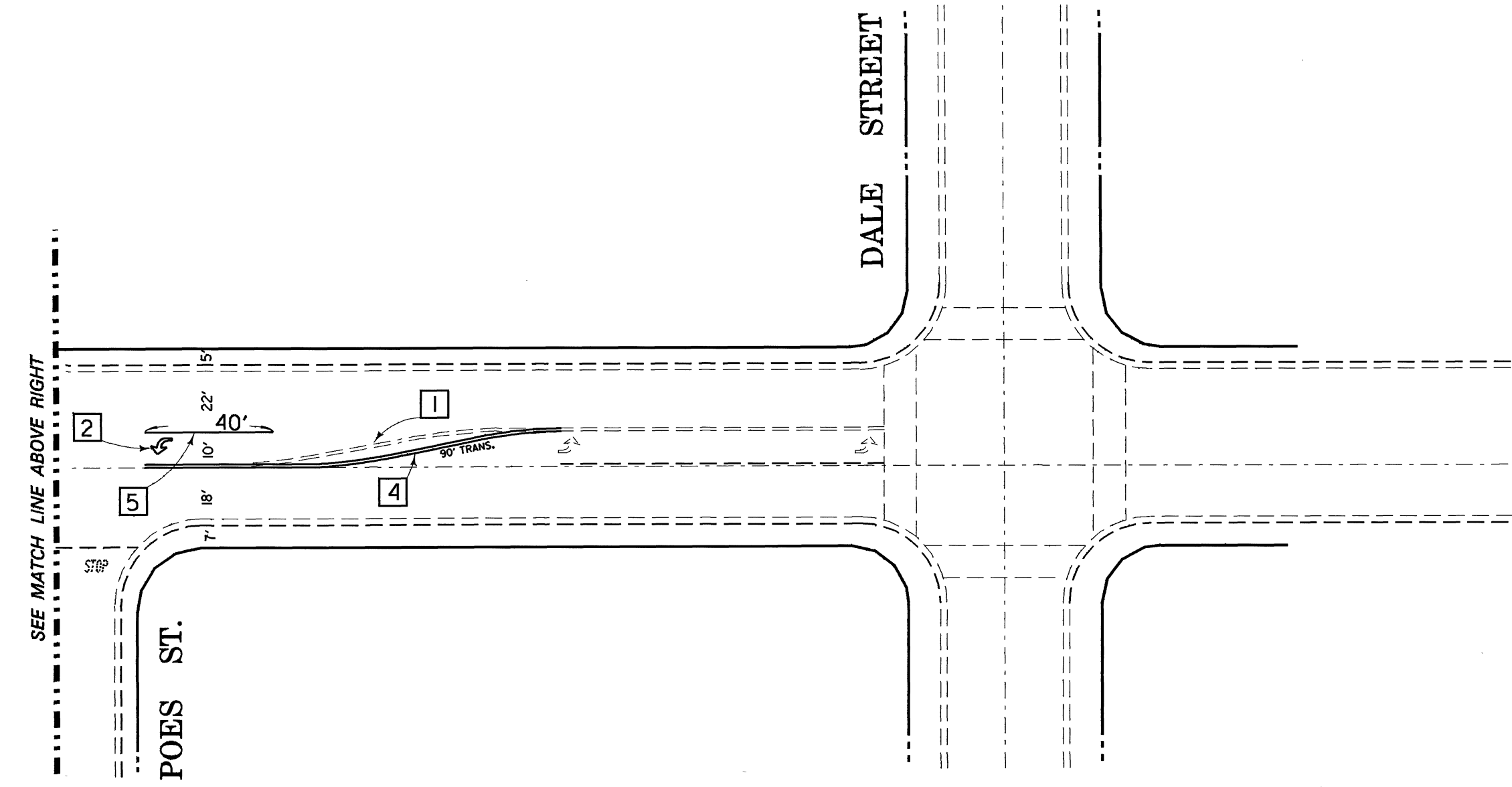
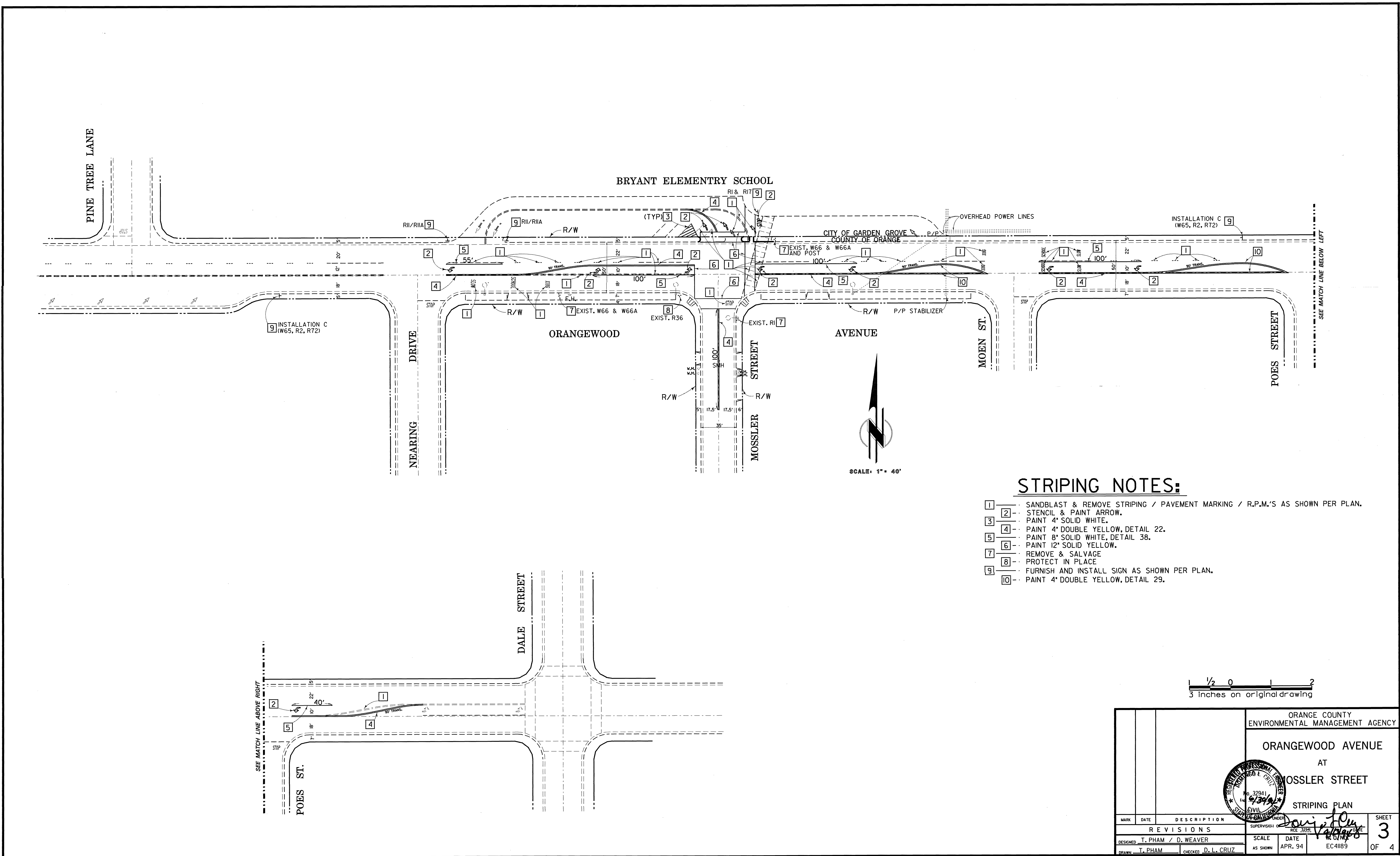
DETAIL "L"
TYPICAL TRENCHING

SEE SPECIAL PROVISIONS FOR TELEPHONE CONDUIT SPECIFICATIONS
N.T.S.

STRIPING:

SEE SHEET 3

		ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY ORANGEWOOD AVENUE AT MOSSLER STREET SIGNAL PLAN
		
	5-98	AS-BUILT UPDATE, T.L.E.
MARK	DATE	DESCRIPTION
REVISIONS		
DESIGNED D. WEAVER / T. PHAM DRAWN T. PHAM CHECKED D. L. CRUZ		
PREPARED UNDER SUPERVISION <i>[Signature]</i> RCE <u>3004</u> DATE <u>APR 94</u>		
SCALE AS SHOWN DATE APR. 94 W. O. NO. EC1489		



STRIPING NOTES:

- 1 - SANDBLAST & REMOVE STRIPING / PAVEMENT MARKING / R.P.M.'S AS SHOWN PER PLAN.
- 2 - STENCIL & PAINT ARROW.
- 3 - PAINT 4" SOLID WHITE.
- 4 - PAINT 4" DOUBLE YELLOW, DETAIL 22.
- 5 - PAINT 8" SOLID WHITE, DETAIL 38.
- 6 - PAINT 12" SOLID YELLOW.
- 7 - REMOVE & SALVAGE
- 8 - PROTECT IN PLACE
- 9 - FURNISH AND INSTALL SIGN AS SHOWN PER PLAN.
- 10 - PAINT 4" DOUBLE YELLOW, DETAIL 29.



ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY	
ORANGEWOOD AVENUE AT MOSSLER STREET	
STRIPING PLAN	
MARK	DATE
REVISIONS	
DESIGNED T. PHAM / D. WEAVER	SCALE DATE
DRAWN T. PHAM	CHECKED D. L. CRUZ
SUPERVISION UNDER	
AS SHOWN APR. 94	
EC41189	
SHEET 3 OF 4	

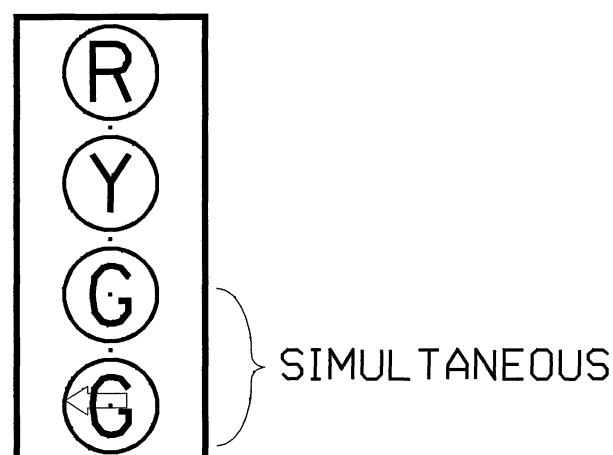
DRAWING NUMBER
10 @ MOSSLER
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
DESIGNED BY NUMBER 07548
POSITION EDGE OF PAVT ON THE LINE

DRAWING NUMBER
010.4
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
DESIGNED BY NUMBER 07548
POSITION EDGE OF PAVT ON THE LINE

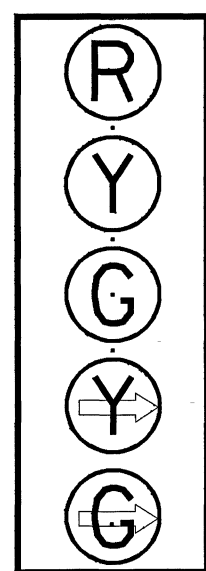
DRAWING NUMBER
010.4
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
DESIGNED BY NUMBER 07548
POSITION EDGE OF PAVT ON THE LINE

DRAWING NUMBER
010.4
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
DESIGNED BY NUMBER 07548
POSITION EDGE OF PAVT ON THE LINE

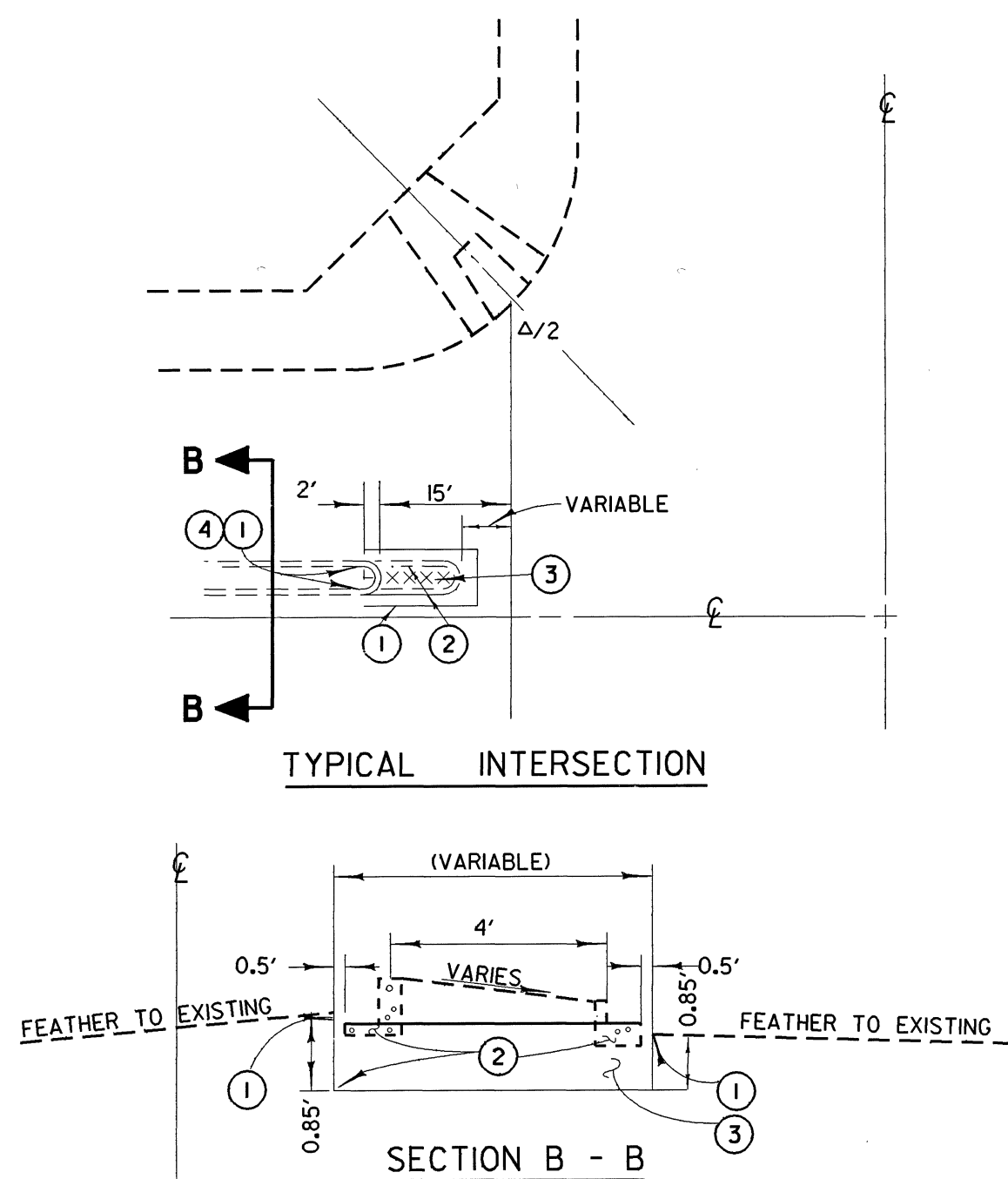
DETAIL A
4-SECTION SIGNAL HEAD
12" LENSES



DETAIL E
5-SECTION SIGNAL HEAD
12" LENSES



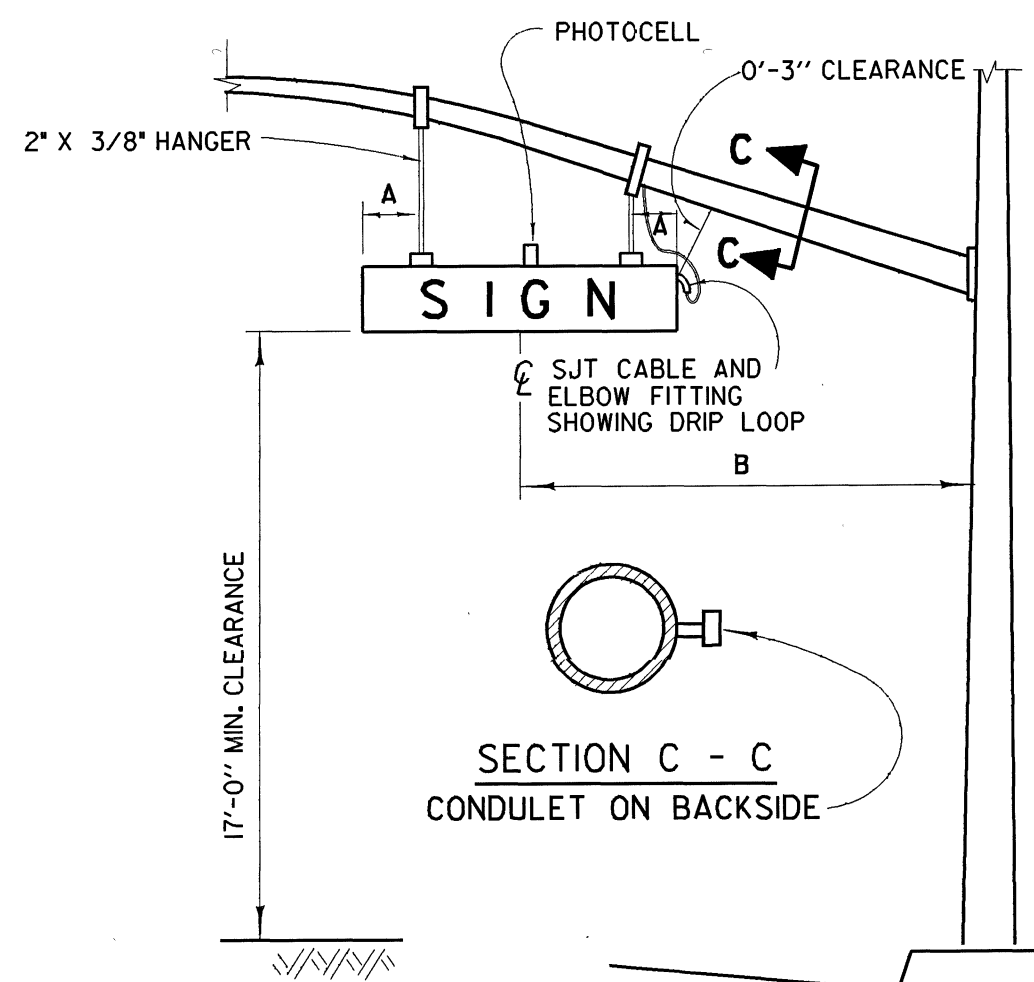
DETAIL B
INTERSECTIONS RAISED MEDIAN



NOTES - DETAILS B

1. SAWCUT AND JOIN EXISTING
2. REMOVE CONCRETE
3. CONSTRUCT 0.85' AC OVER NATIVE SOIL
4. CONSTRUCT TYPE CI-8 CONCRETE CURB PER EMA STD. PLAN 104-0-0.C.

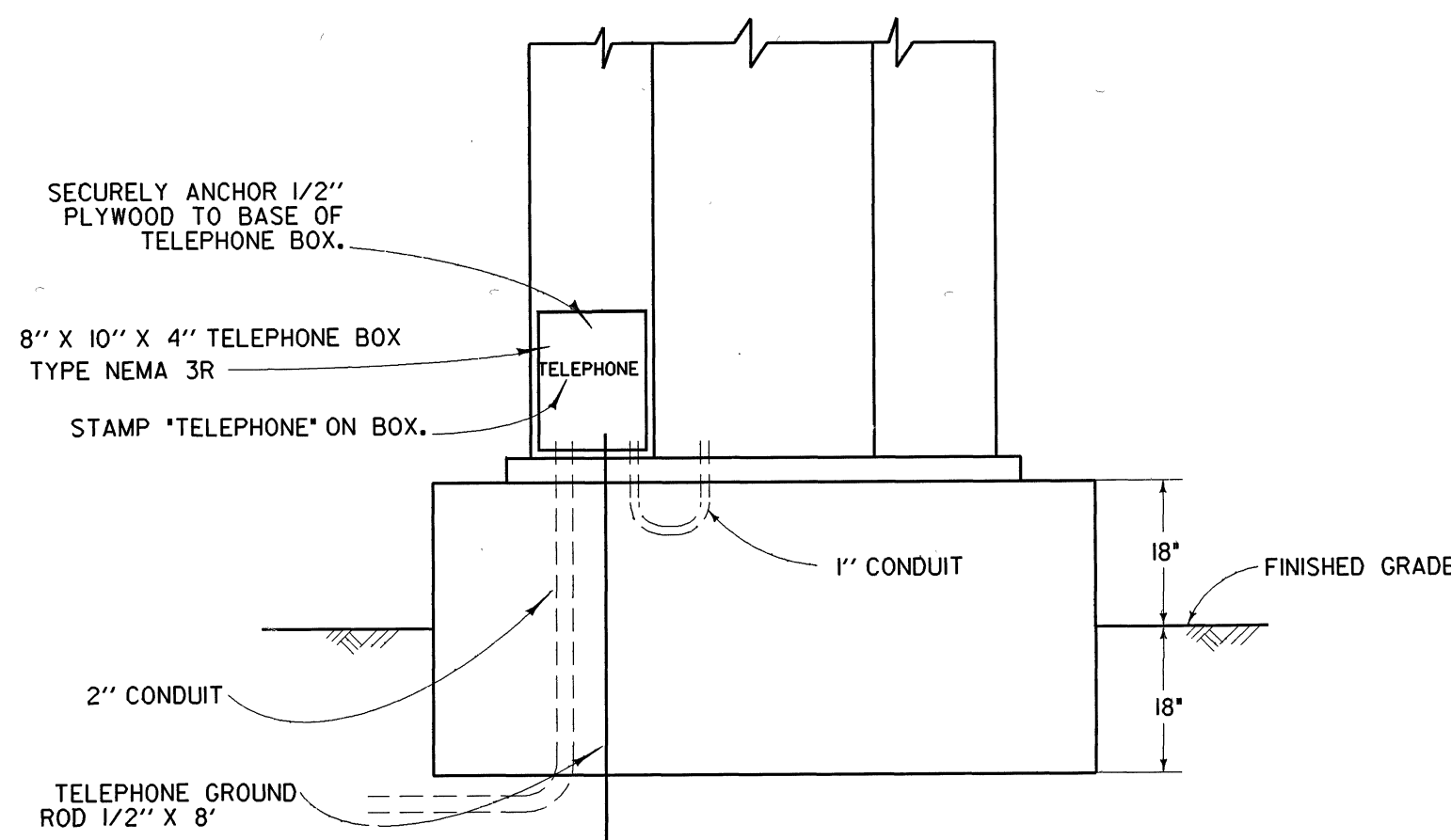
DETAIL C
STREET NAME SIGN COMPONENTS



NOTES - DETAIL C

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

DETAIL D
TELEPHONE SERVICE BOX

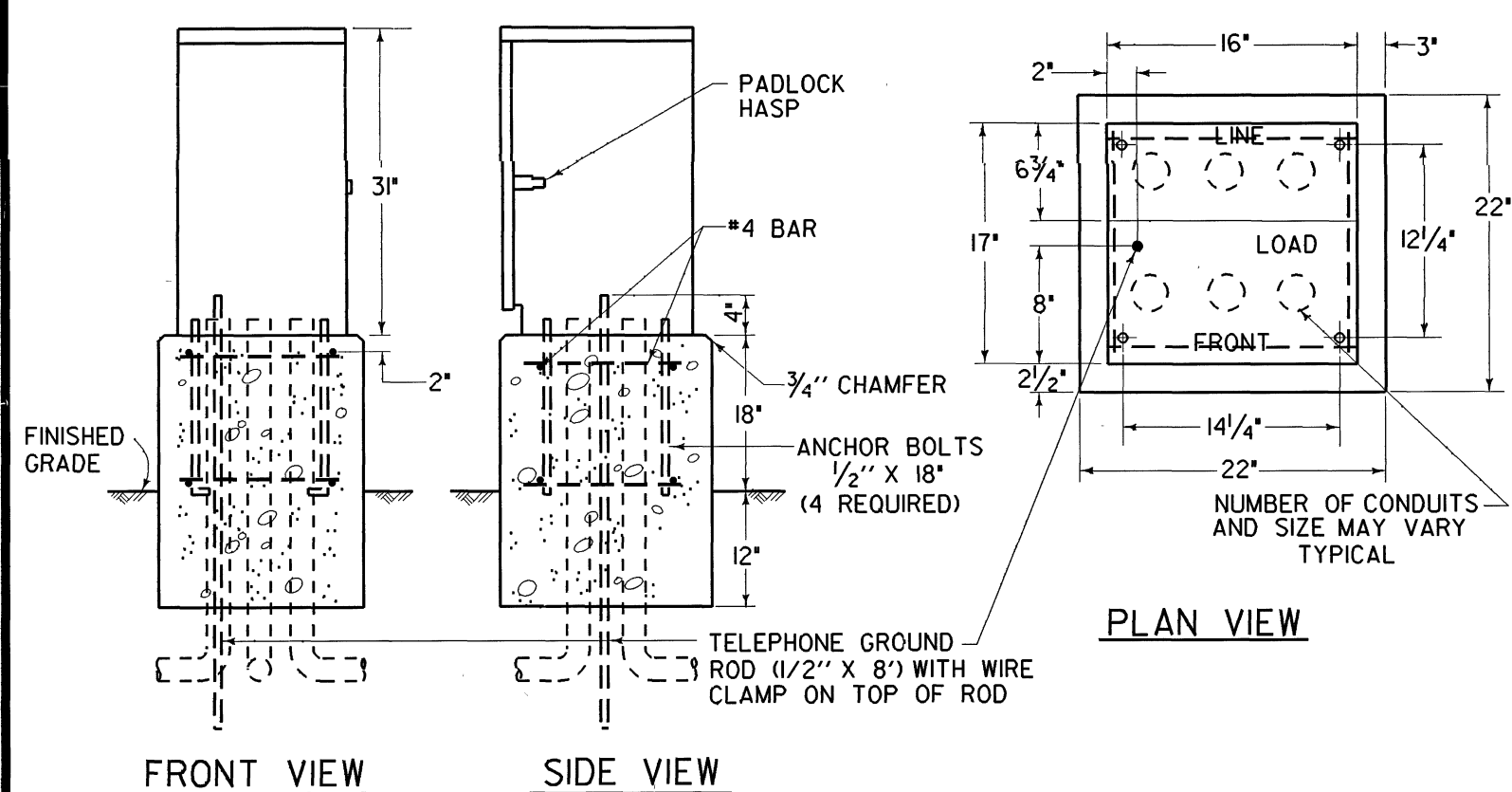


GENERAL NOTES: Δ

1. ALL WORK, MATERIALS AND EQUIPMENT SHALL CONFORM TO THE REQUIREMENTS OF THE CALIFORNIA, DEPT. OF TRANSPORTATION, STANDARD PLANS AND STANDARD SPECIFICATIONS DATED JULY 1991 AND THE SPECIAL PROVISIONS FOR THIS PROJECT.
2. 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.
3. 48 HOURS PRIOR TO BEGINNING OF CONSTRUCTION, THE CONTRACTOR SHALL CONTACT ORANGE COUNTY E.M.A. 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 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.
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 INDICATION SHALL BE INTERNATIONAL SYMBOL.
10. PEDESTRIAN PUSH BUTTON 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 OTHERWISE.
12. CONTRACTOR SHALL POTHOLE CONFLICTING UTILITIES AS DIRECTED BY ENGINEER.
13. CONTRACTOR SHALL AVOID DAMAGING EXISTING UTILITIES. (SEE SPECIAL PROVISIONS).
14. INDUCTIVE LOOPS SHALL BE 6' X 6' WITH 9' SPACING IN THE DIRECTION OF TRAVEL UNLESS OTHERWISE NOTED.
15. ALL DETECTOR CABLE HOMERUNS SHALL BE IN THE CROSSWALK AREA.
16. ALL 6'x6' 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).

DETAIL F

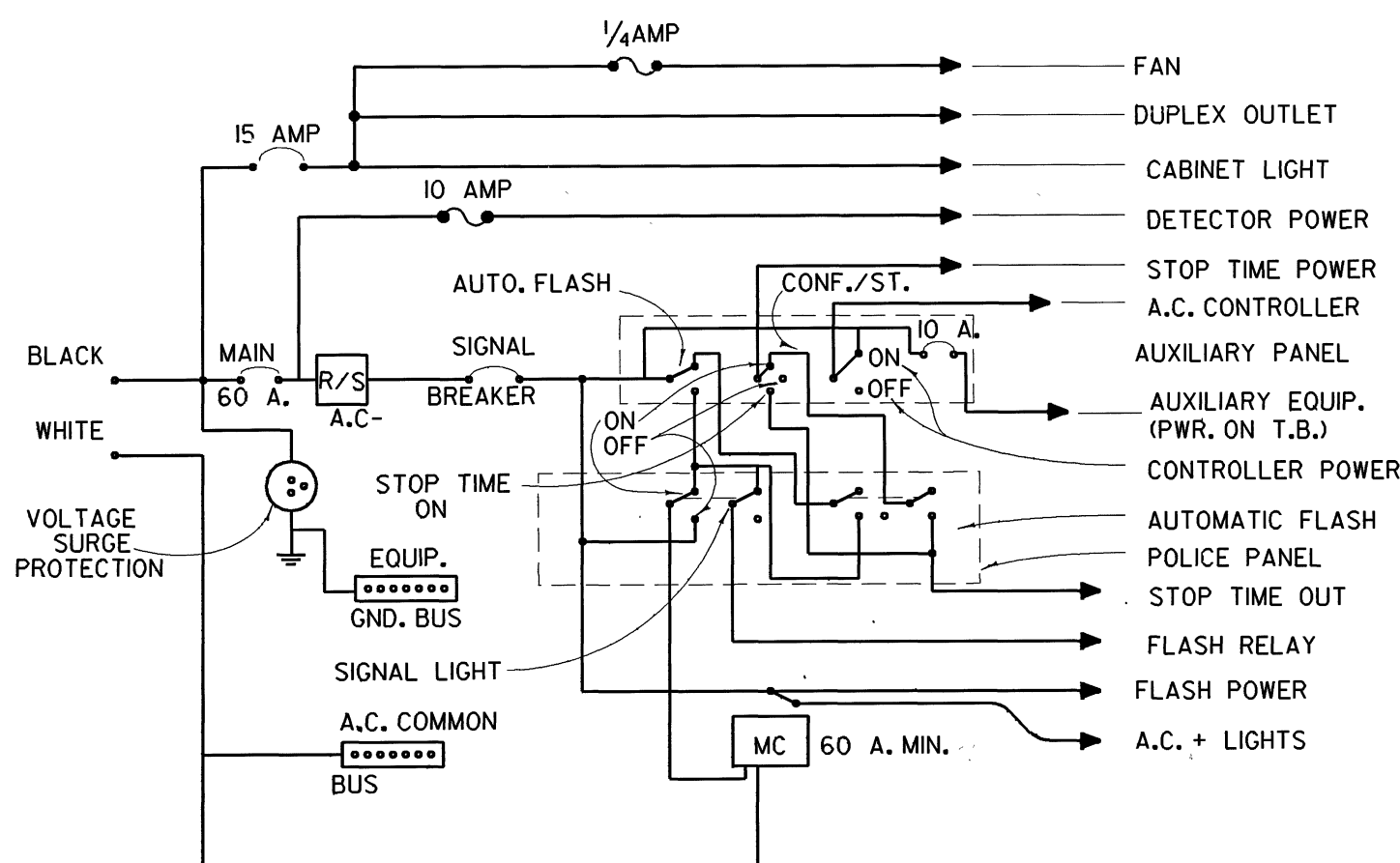
INTERCONNECT SPLICE CABINET



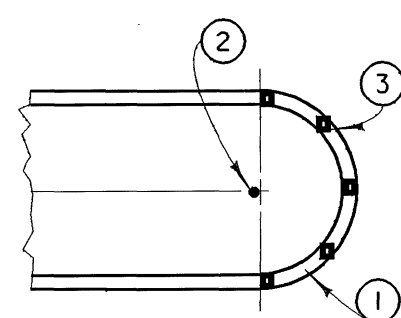
NOTES - DETAIL F

1. FOUNDATION TO BE 22" X 22". ANCHOR BOLT PLACEMENT PER CABINET MFG. TEMPLATE.
2. ENCLOSURE SHALL BE 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. M-25 AND R-841 STANDOFF FASTENED IN THE CENTER OF THE PANEL.
5. ENCLOSURE FINISH SHALL CONFORM TO A.S.T.M. B-117. COLOR SHALL BE PORCELAIN WHITE.
6. PROVIDE 1 1/2" CONDUIT FOR FUTURE IIS VAC SERVICE.
7. PROVIDE GROUND BUS INSIDE SPLICE CABINET.

DETAIL G
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-10N TELESAR 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 PARALLEL TO C OF ROADWAY.

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

REVISIONS		ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY	
MARK	DATE	DESCRIPTION	UNDER SUPERVISION OF
DESIGNED	D. WEAVER / T. PHAM	SCALE	DATE
DRAWN	T. PHAM	AS SHOWN	APR. 94
CHECKED			EC4189
SHEET 4 OF 4			