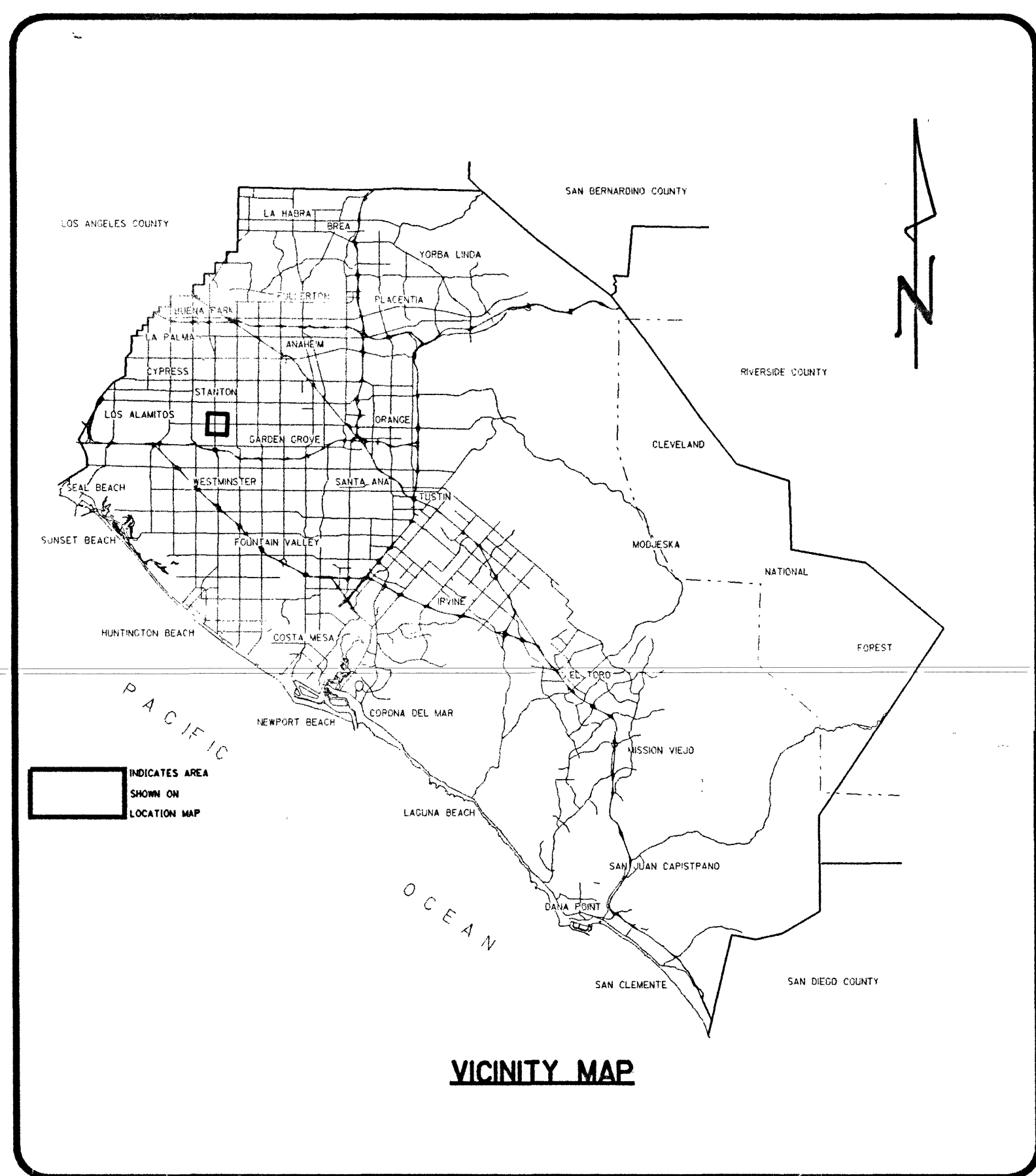
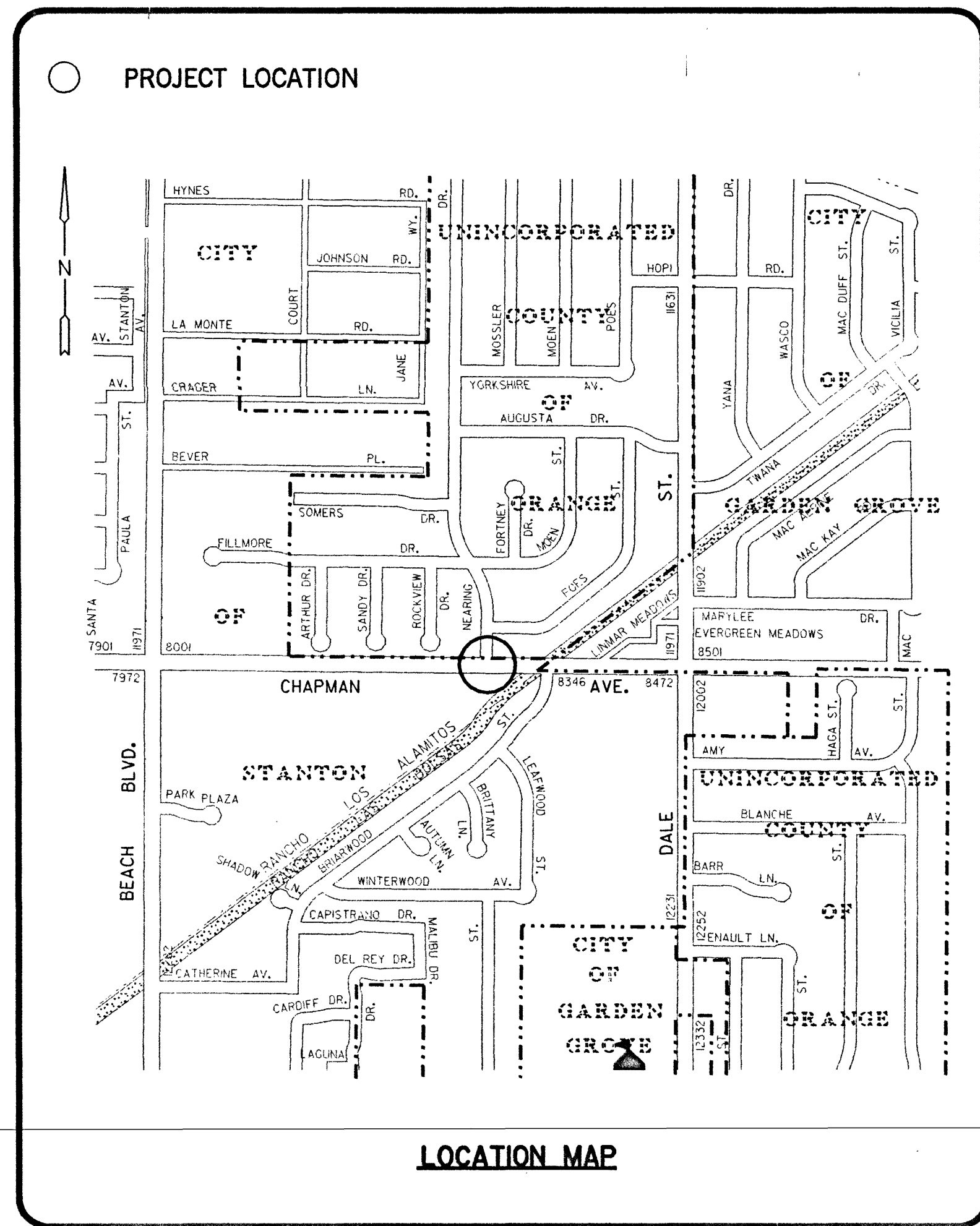


ENV FILE CDDP (IRVINE) CA
C226.1



VICINITY MAP



LOCATION MAP

ORANGE COUNTY
PUBLIC FACILITIES & RESOURCES DEPARTMENT
SANTA ANA, CALIFORNIA
VICKI L. WILSON, DIRECTOR

PLANS FOR CONSTRUCTION OF
A TRAFFIC SIGNAL
AT

CHAPMAN AVENUE

AT

NEARING DRIVE

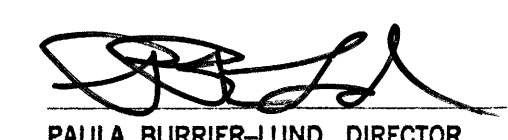
APRIL 2003

FUNDED BY: ROAD AND ORANGE COUNTY DEVELOPMENT AGENCY FUNDS

INDEX OF SHEETS	
SHEET	DESCRIPTION
1	TITLE SHEET
2	CHAPMAN AVE. AT NEARING DR. SIGNAL PLAN
3	DETAIL SHEET

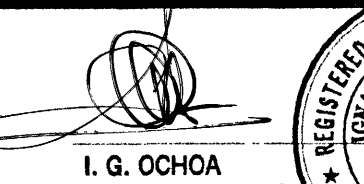
UTILITY OWNER	CONTACT	PHONE NO.
TIME WARNER COMMUNICATIONS	CHRIS DONNELLY	(714) 903-8307
PACIFIC BELL	JEFF MERICKEL	(714) 666-5710
THE GAS COMPANY	JOHN PAPACS	(714) 634 3185
SOUTHERN CALIFORNIA EDISON CO.	ARLAN AVERYT	(562) 491-2491
CITY OF HUNTINGTON BEACH - WATER	DEBBIE DEBOW	(714) 536-5528
CITY OF WESTMINSTER - WATER	GARY HEFFELFINGER	(714) 895-2876 EXT: 6295
USA		(800) 422-4133

HOUSING AND COMMUNITY DEVELOPMENT

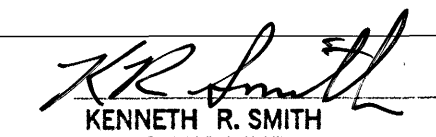
APPROVED:  4/16/03
PAULA BURRIER-LUND, DIRECTOR DATE

APPROVED:  4-16-03
JESS CARBAJAL, DEPUTY DIRECTOR DATE

PUBLIC FACILITIES & RESOURCES DEPARTMENT

SUBMITTED:  4/16/03
I.G. OCHOA
COUNTY TRAFFIC ENGINEER
DATE

RECOMMENDED:  5/14/03
VINCENT P. ROSALES, MANAGER
ROAD DIVISION DATE

APPROVED:  6/30/03
KENNETH R. SMITH
CHIEF ENGINEER DATE

CITY OF STANTON

APPROVED BY:  5/14/03
JAKE WAGER, CITY MANAGER DATE


RICHARD J. WILSON, CITY ENGINEER DATE

NO.	DESCRIPTION	SHT.	APPROVED	DATE
REVISIONS				

W. O. NO. ER10165
(KD02033)

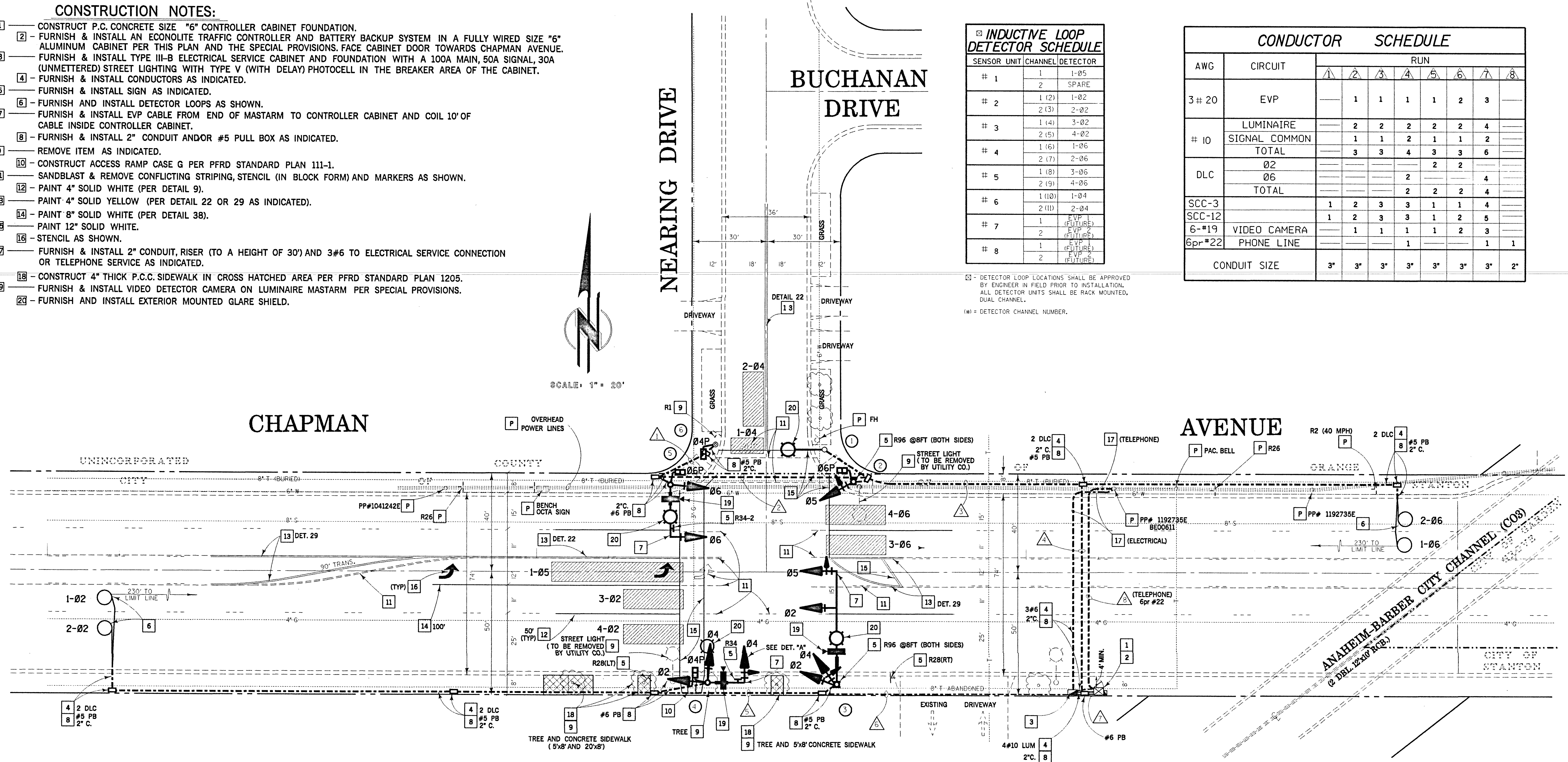
SHEET 1 OF 3

1. CONSTRUCT P.C. CONCRETE SIZE "6" CONTROLLER CABINET FOUNDATION.
2. FURNISH & INSTALL AN ECONOLITE TRAFFIC CONTROLLER AND BATTERY BACKUP SYSTEM IN A FULLY WIRED SIZE "6" ALUMINUM CABINET PER THIS PLAN AND THE SPECIAL PROVISIONS. FACE CABINET DOOR TOWARDS CHAPMAN AVENUE.
3. FURNISH & INSTALL TYPE III-B ELECTRICAL SERVICE CABINET AND FOUNDATION WITH A 100A MAIN, 50A SIGNAL, 30A (UNMETTERED) STREET LIGHTING WITH TYPE V (WITH DELAY) PHOTOCELL IN THE BREAKER AREA OF THE CABINET.
4. FURNISH & INSTALL CONDUCTORS AS INDICATED.
5. FURNISH & INSTALL SIGN AS INDICATED.
6. FURNISH AND INSTALL DETECTOR LOOPS AS SHOWN.
7. FURNISH & INSTALL EVP CABLE FROM END OF MASTARM TO CONTROLLER CABINET AND COIL 10' OF CABLE INSIDE CONTROLLER CABINET.
8. FURNISH & INSTALL 2" CONDUIT AND/OR #5 PULL BOX AS INDICATED.
9. REMOVE ITEM AS INDICATED.
10. CONSTRUCT ACCESS RAMP CASE G PER PFRD STANDARD PLAN 111-1.
11. SANDBLAST & REMOVE CONFLICTING STRIPING, STENCIL (IN BLOCK FORM) AND MARKERS AS SHOWN.
12. PAINT 4" SOLID WHITE (PER DETAIL 9).
13. PAINT 4" SOLID YELLOW (PER DETAIL 22 OR 29 AS INDICATED).
14. PAINT 8" SOLID WHITE (PER DETAIL 38).
15. PAINT 12" SOLID WHITE.
16. STENCIL AS SHOWN.
17. FURNISH & INSTALL 2" CONDUIT, RISER (TO A HEIGHT OF 30') AND 3#6 TO ELECTRICAL SERVICE CONNECTION OR TELEPHONE SERVICE AS INDICATED.
18. CONSTRUCT 4" THICK P.C.C. SIDEWALK IN CROSS HATCHED AREA PER PFRD STANDARD PLAN 1205.
19. FURNISH & INSTALL VIDEO DETECTOR CAMERA ON LUMINAIRE MASTARM PER SPECIAL PROVISIONS.
20. FURNISH AND INSTALL EXTERIOR MOUNTED GLARE SHIELD.

 INDUCTIVE LOOP DETECTOR SCHEDULE			
SENSOR	UNIT	CHANNEL	DETECTOR
# 1		1	1-05
		2	SPARE
# 2		1 (2)	1-02
		2 (3)	2-02
# 3		1 (4)	3-02
		2 (5)	4-02
# 4		1 (6)	1-06
		2 (7)	2-06
# 5		1 (8)	3-06
		2 (9)	4-06
# 6		1 (10)	1-04
		2 (11)	2-04
# 7		1	EVP (FUTURE)
		2	EVP 2 (FUTURE)
# 8		1	EVP (FUTURE)
		2	EVP (FUTURE)

☒ - DETECTOR LOOP LOCATIONS SHALL BE APPROVED BY ENGINEER IN FIELD PRIOR TO INSTALLATION. ALL DETECTOR UNITS SHALL BE RACK MOUNTED, DUAL CHANNEL.

(#) = DETECTOR CHANNEL NUMBER.

[illegible]

POLE SCHEDULE												
POLE DATA			SIGNAL	H.P.S.V. LUMINAIRE	SIGNAL MOUNTING			PED PUSH BUTTON		FOUNDATION		REFLECTORIZED STREET NAME SIG (DOUBLE FACE)
NO.	TYPE	HEIGHT	M.A.	M.A.	WATTS	VEH.	M.A.	PED.	PHASE	POLE QUAD	TYPE	SIZE
①	TYPE 15	30'(9.1m)	_____	12'(3.6m)	200 *	_____	_____	_____	6	S	C	2'-6" x 5'-0"
②	1A	10'(3.0m)	_____	_____	_____	TV-1-T	_____	SP-1-CS	_____	_____	S	2'-0" x 3'-0"
③	26-4-129	30'(9.1m)	45'(13.7m)	15'(4.6m)	200 *	SV-2-TB	2 MAS	_____	_____	_____	C	3'-0" x 9'-0"
④	17-3-129	30'(9.1m)	15'(4.6m)	12'(3.6m)	250 *	SV-2-TA	1 MAS	SP-1-CS	4	W	C	3'-0" x 9'-0"
⑤	17-3-129	30'(9.1m)	20'(6.1m)	15'(4.6m)	250 *	SV-1-T	1 MAS	SP-1-CS	4	E	C	3'-0" x 9'-0"
⑥	1A	10'(3.0m)	_____	_____	_____	_____	_____	SP-1-CS	6	S	S	2'-0" x 3'-0"

- EXACT POLE LOCATIONS DETERMINED BY ENGINEER IN THE FIELD.
- POT HOLE POLE FOUNDATION LOCATIONS PRIOR TO ORDERING POLES.

C = C.I.D.H.
S = SQUARE.
• = PROVIDE AND INSTALL EXTERIOR MOUNTED GLARE SHIELD.

	PHASE DIAGRAM			
VEHICULAR & PEDESTRIAN MOVEMENTS				
NEMA PHASE	02	04	05	06
COORDINATION FUNCTION	+	*	*	*

* DETERMINED BY MASTER COMPUTER DURING COORDINATED OPERATION.

```

sequenceDiagram
    direction LR
    P1[02+05] --> P2[02+06]
    P2 --> P3[04]
  
```

SEQUENCE WITH CALLS ON ALL PHASES.

 INDICATES VEHICLE DETECTION AREA
FOR VIDEO DETECTION SYSTEM
 CLOSED CIRCUIT CAMERA
 PROTECT IN PLACE

CITY OF STANTON

APPROVED: Jake Wager
Jake Wager, City Manager

APPROVED: Richard J. Wilson
Richard J. Wilson, City Engineer

SEE SHEET 3

ORANGE COUNTY
PUBLIC FACILITIES & RESOURCES DEPARTMENT

CHAPMAN AVENUE
AND
NEARING DRIVE

SIGNATURE OF PLAIN

APPROVED BY
I.G. OCHOA

RTH 1983

SCALE DATE

No. 1183

Exp. 12/31/03

TRAFFIC

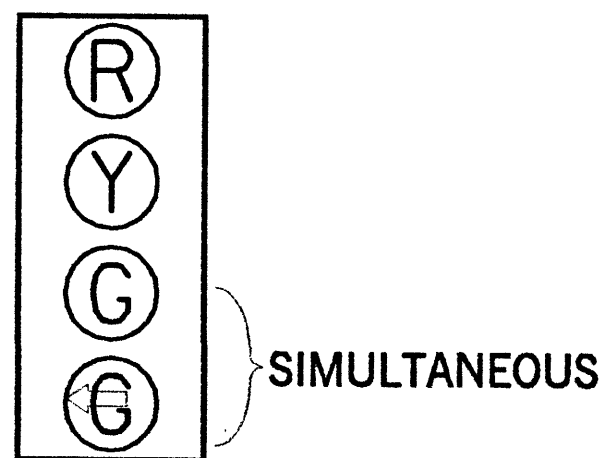
STATE OF CALIFORNIA

SHEET 2

SHEET
2
OF 3

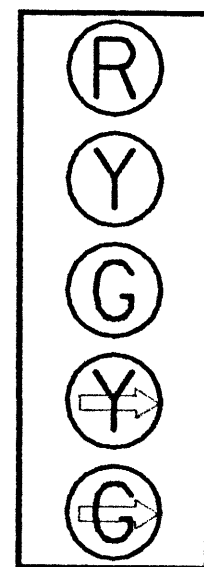
DETAIL A

4-SECTION SIGNAL HEAD
12" LENSES



DETAIL E

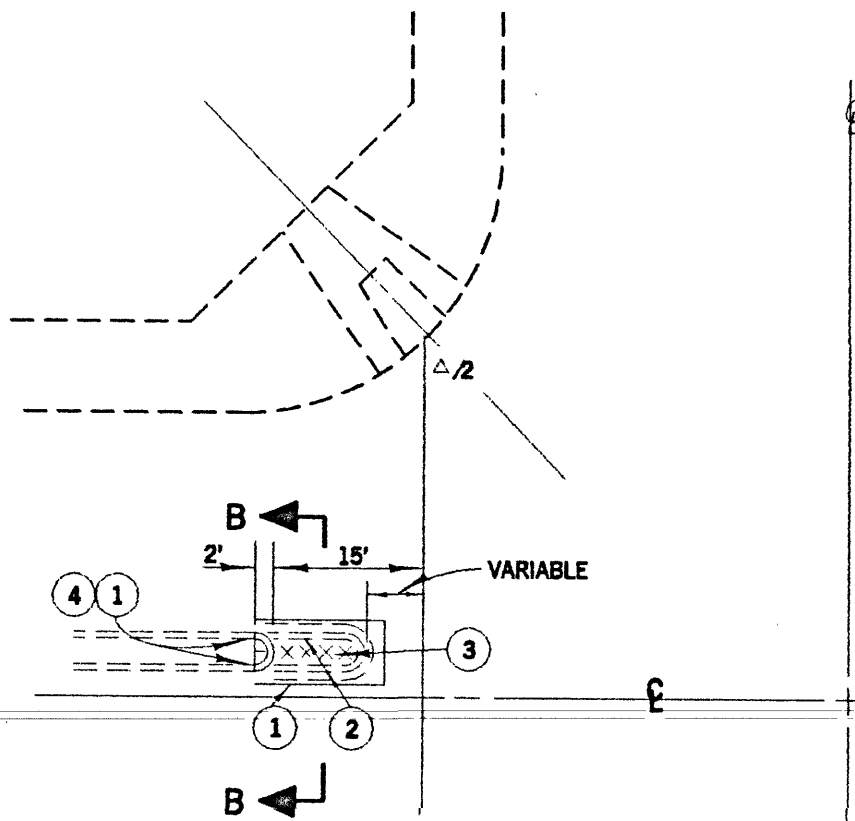
5-SECTION SIGNAL HEAD
12" LENSES



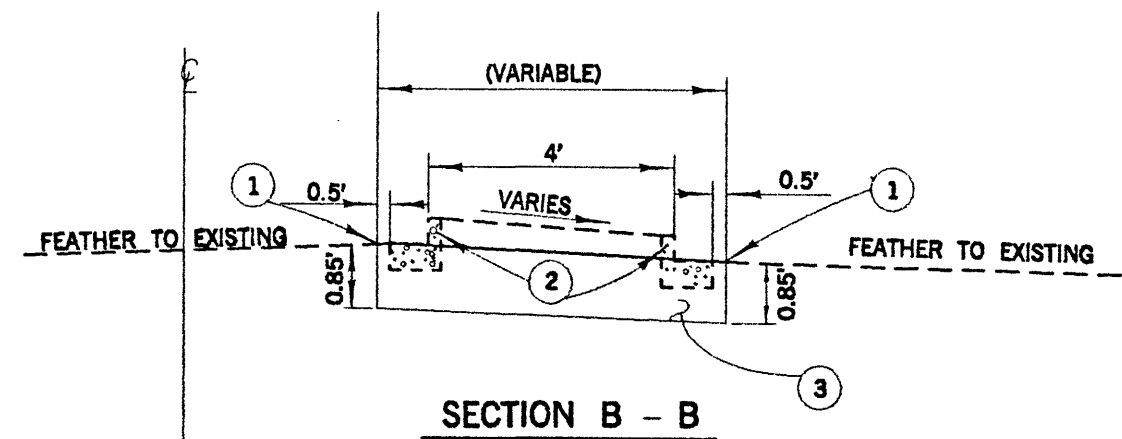
- △ BAND STRAP OR BOLT FRAME WORK AT TOP TO SIGNAL POLE, AS DIRECTED BY ENGINEER.
△ NO CAST ALUMINUM TERMINAL BLOCKS ALLOWED.

DETAIL B

INTERSECTIONS RAISED MEDIAN



TYPICAL INTERSECTION

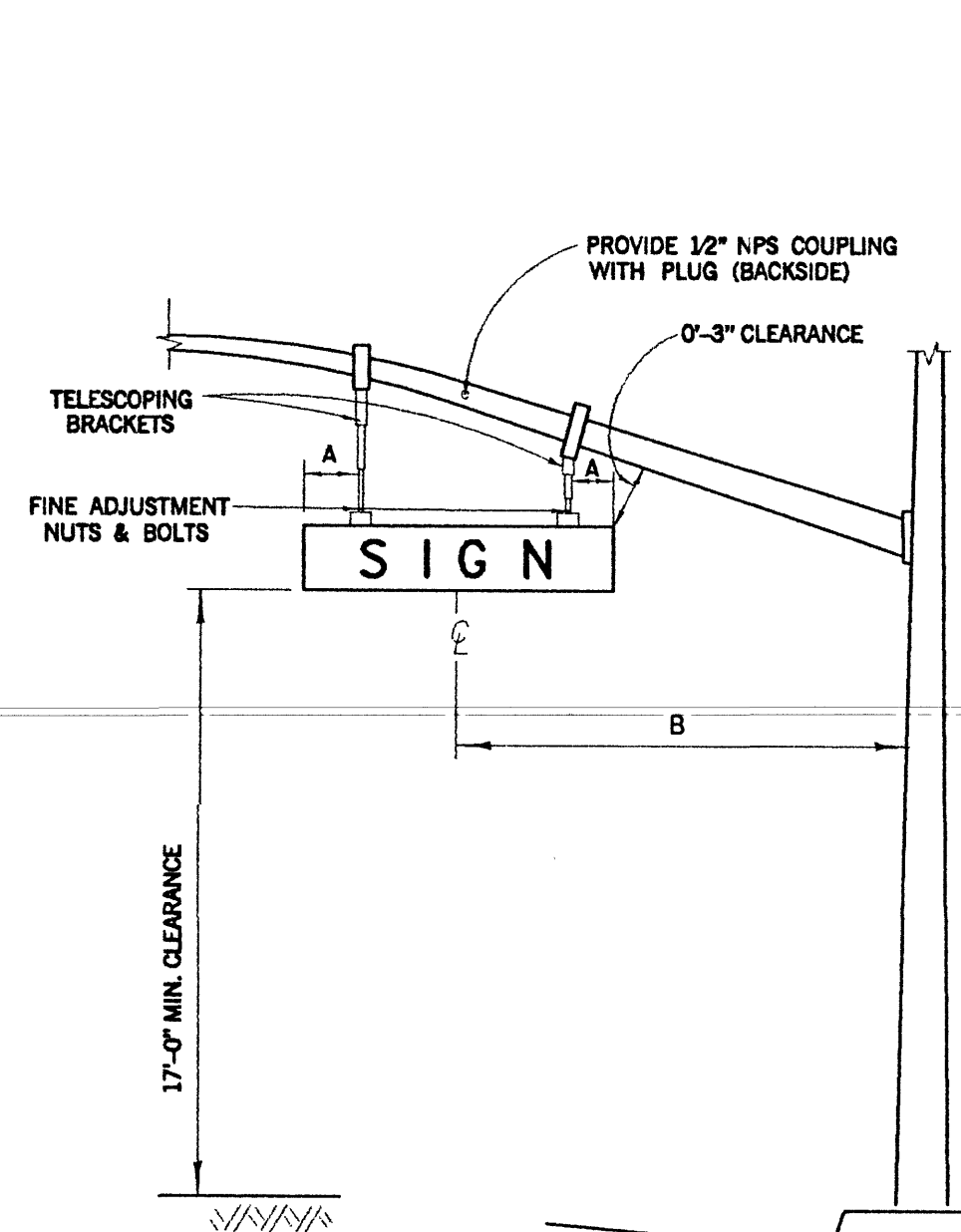


NOTES - DETAILS B

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

DETAIL C

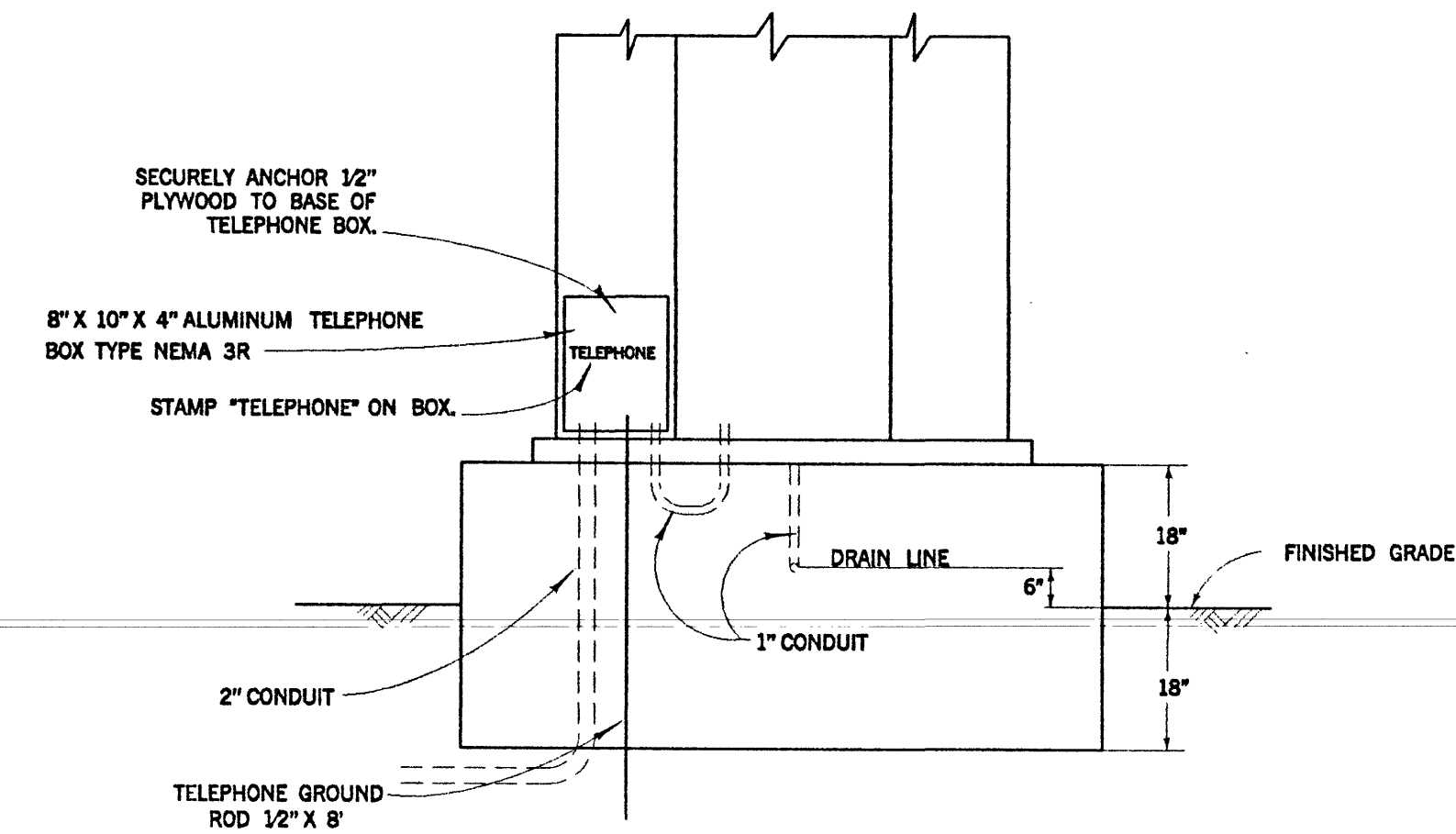
REFLECTORIZED STREET NAME SIGN COMPONENTS



NOTES - DETAIL C

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

DETAIL D TELEPHONE SERVICE BOX

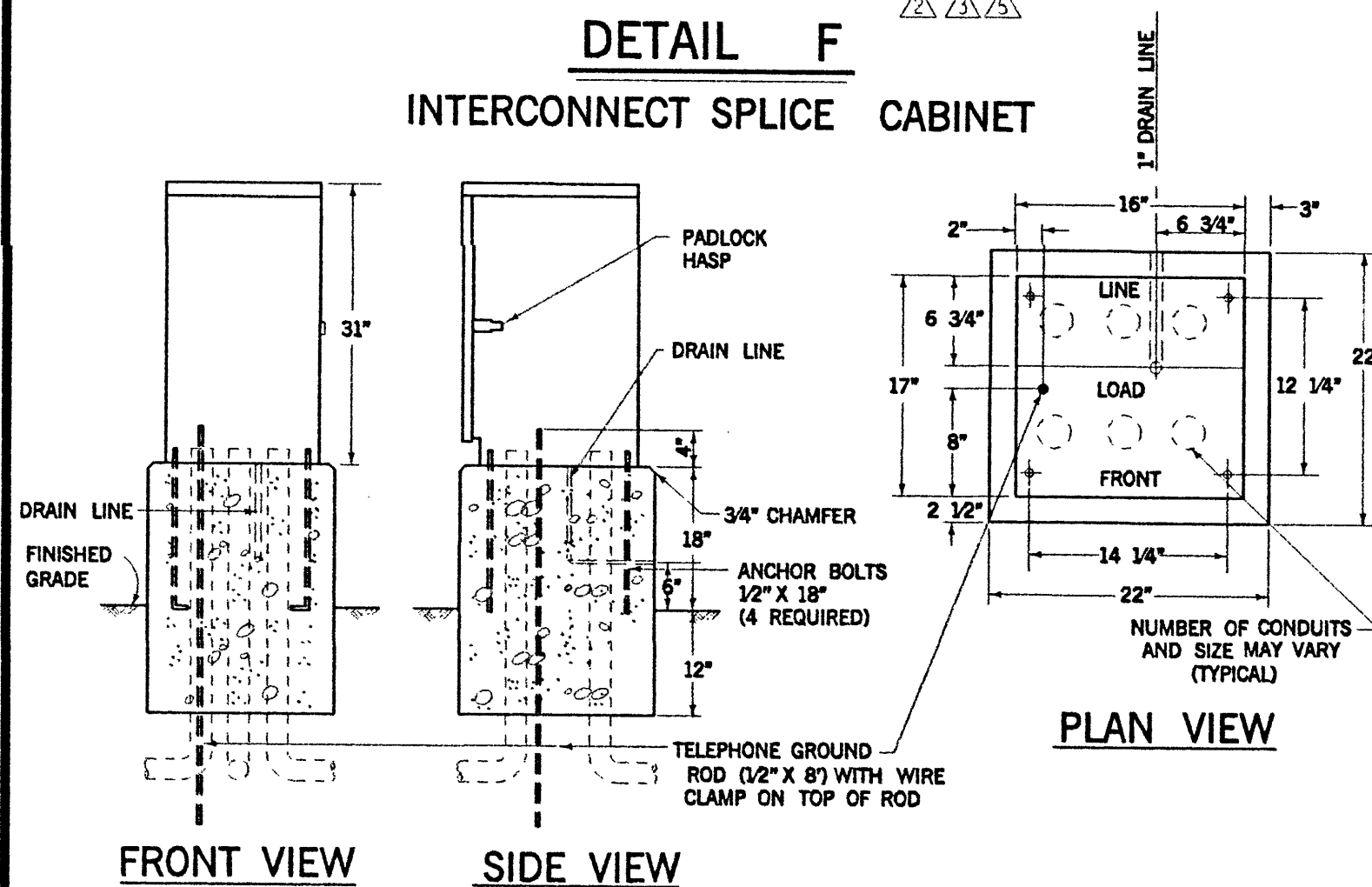


GENERAL NOTES :

1. ALL WORK, MATERIALS AND EQUIPMENT SHALL CONFORM TO THE REQUIREMENTS OF THE CALIFORNIA, DEPARTMENT OF TRANSPORTATION, STANDARD PLANS AND STANDARD SPECIFICATIONS DATED JULY 1999 AND JULY 1999 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 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 CONDUITS 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 OTHERWISE.
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.
16. ALL DETECTOR LOOPS SHALL HAVE 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 EXISTING.

DETAIL F

INTERCONNECT SPICE CABINET

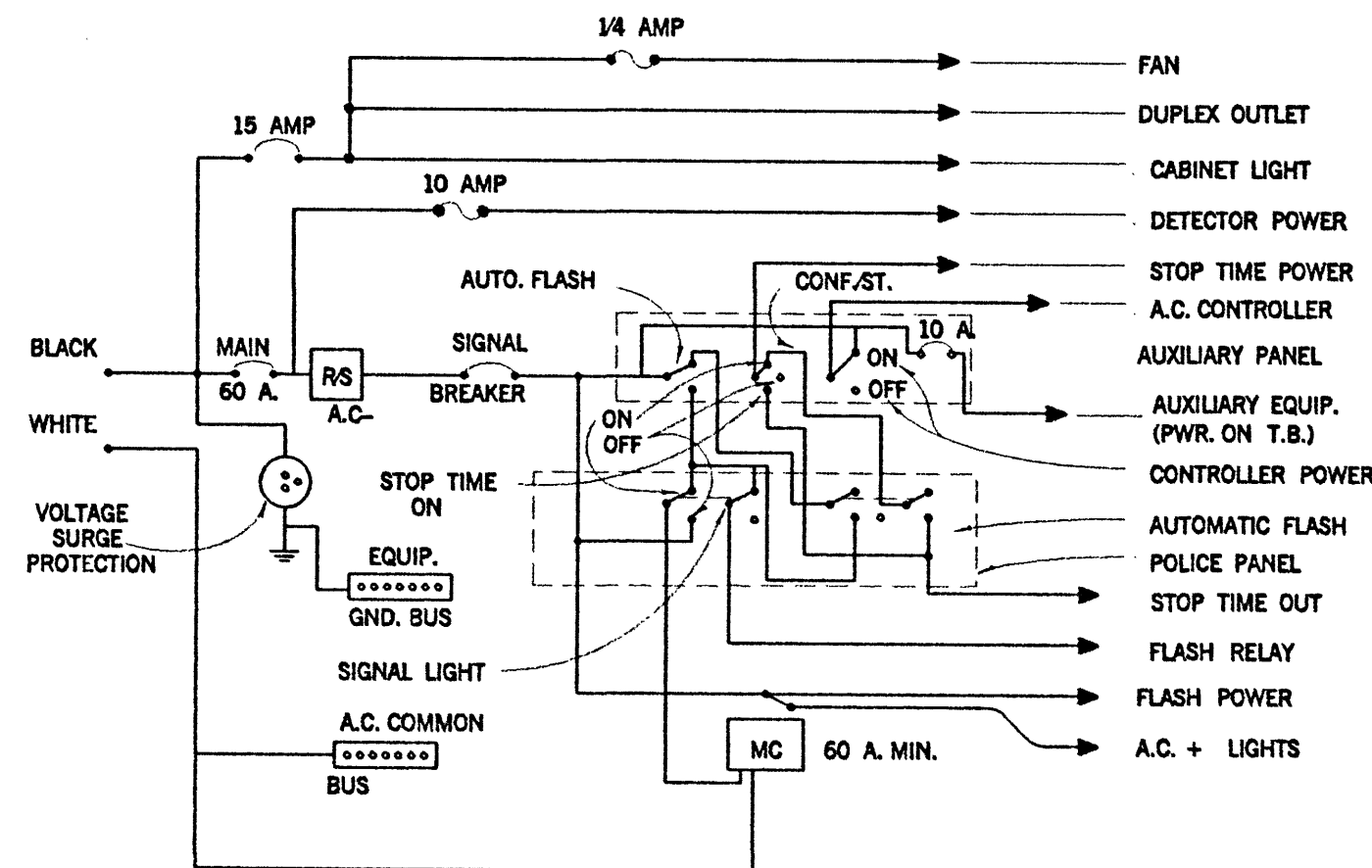


NOTES - DETAIL F

1. FOUNDATION TO BE 22" X 22". ANCHOR BOLT PLACEMENT PER CABINET MFG. TEMPLATE.
2. 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 SPICE CABINET.

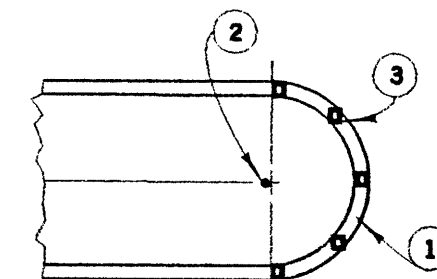
DETAIL G

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-1 ON 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 8 MARKERS). PLACE REFLECTIVE SURFACE OF MARKERS PERPENDICULAR TO C OF ROADWAY.

ORANGE COUNTY PUBLIC FACILITIES & RESOURCES DEPARTMENT		SIGNAL DETAIL SHEET	
3-29-88	ADDED NOTE 16.	MARK	DATE
4-4-88	DELETED TYPE H SERVICE.	DESCRIPTION	PREPARED UNDER
12-8-88	ADDED INTERCONNECT SPICE CABINET.	REVISIONS	SUPERVISION OF
8-8-91	MODIFIED INTERCONNECT SPICE CABINET.	DESIGNED	DATE
6-7-93	MODIFIED INTERCONNECT SPICE CABINET.	DRAWN	SCALE
1-1-97	MODIFIED OVERHEAD STREET NAME SIGN.	CHECKED	DATE
3-4-97	MODIFIED DETECTOR LOOP NOTES.		W. O. NO.
8-31-98	ADDED NOTES IN DETAIL E		APRIL 03
		SHEET 3 OF 3	