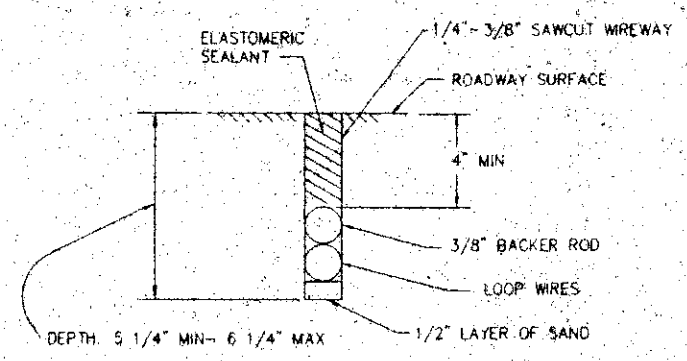


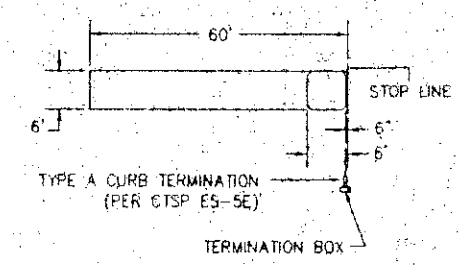
OPERATION DATE: 1/13/2000.

SP

POLE AND EQUIPMENT SCHEDULE								
POLE No.	TYPE OF POLE	VEHICLE SIGNAL			PEDESTRIAN SIGNAL			REMARKS
		No.	TYPE (F/I)	MOUNTING (F/I)	No.	TYPE (F/I)	MOUNTING (F/I)	
1	26-4-70 WITH 40' MAST ARM AND 6' LUMINAIRE ARM, 200W, 120V HIGH PRESSURE SODIUM LUMINAIRE	85 21 24	3S12"-RA PV3S12" PV3S12"	SV-1-T MAS MAS	28	1S-IN	SP-1-T	W
2	EXISTING STREET LIGHT	25	3S8" M	SV-1-T	29	1S-IN	SP-1-T	
3	1-A (10')	26 75	3S8" 3S12"	TV-2-T-SFB				
4	1-A (10')	76	3S12" M	TV-1-T				
5	16-2-70 WITH 20' MAST ARM	82 72 74	3S12"-RA PV3S12" PV3S12"	SV-2-T MAS				
6	1-A (13')	81	3S12"-RA	TV-1-T				

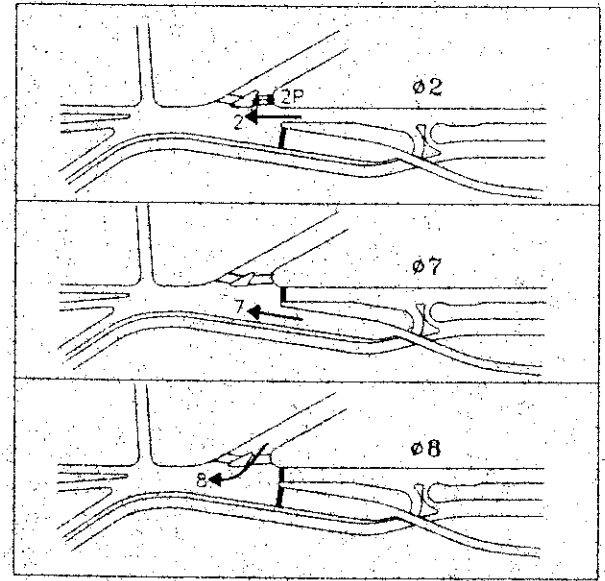


SLOT SECTION (TYPICAL)



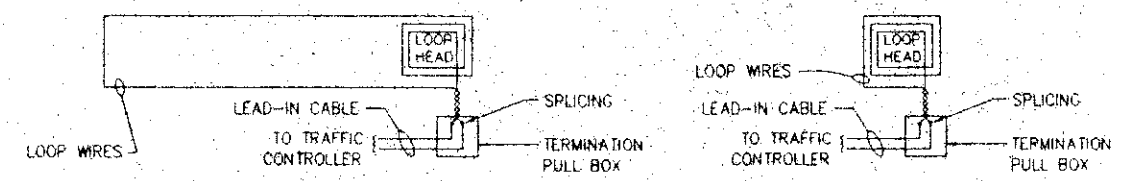
DETECTOR LOOP SAWCUT LAYOUT

PHASE DIAGRAM



SHEET DETAIL NOTES:

- W WITH BACK PLATE
- M LOUVERS IN SIGNAL HEAD
- W F/I WITH INTEGRAL BALLAST AND PHOTOELECTRIC CONTROL. F/I FUSE AND FUSE HOLDERS PER SFDWSP #49.092



NOTES

- (1) LOOPS WIRES AND LOOP LEAD-IN CABLE SHALL BE INSTALLED IN CONTINUOUS LENGTH WITHOUT INTERMEDIATE SPLICE.
- (2) SEE APPLICABLE DETAILS AS SHOWN ON "LOOP INSTALLATION PROCEDURE" ON CTSP ES-5A.

DETECTOR LOOP WIRING DIAGRAM

DETAIL 1

FLASH - ALL RED

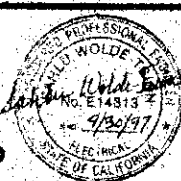
DRAWING INFORMATION:
FILE NAME: 110BNEZ
ORIGIN: ELECTRICAL
DATE:

NO.	DATE	DESCRIPTION	BY	APP
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

REFERENCE INFORMATION & FILE NO. OF SURVEYS



BUREAU OF ENGINEERING
DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF SAN FRANCISCO

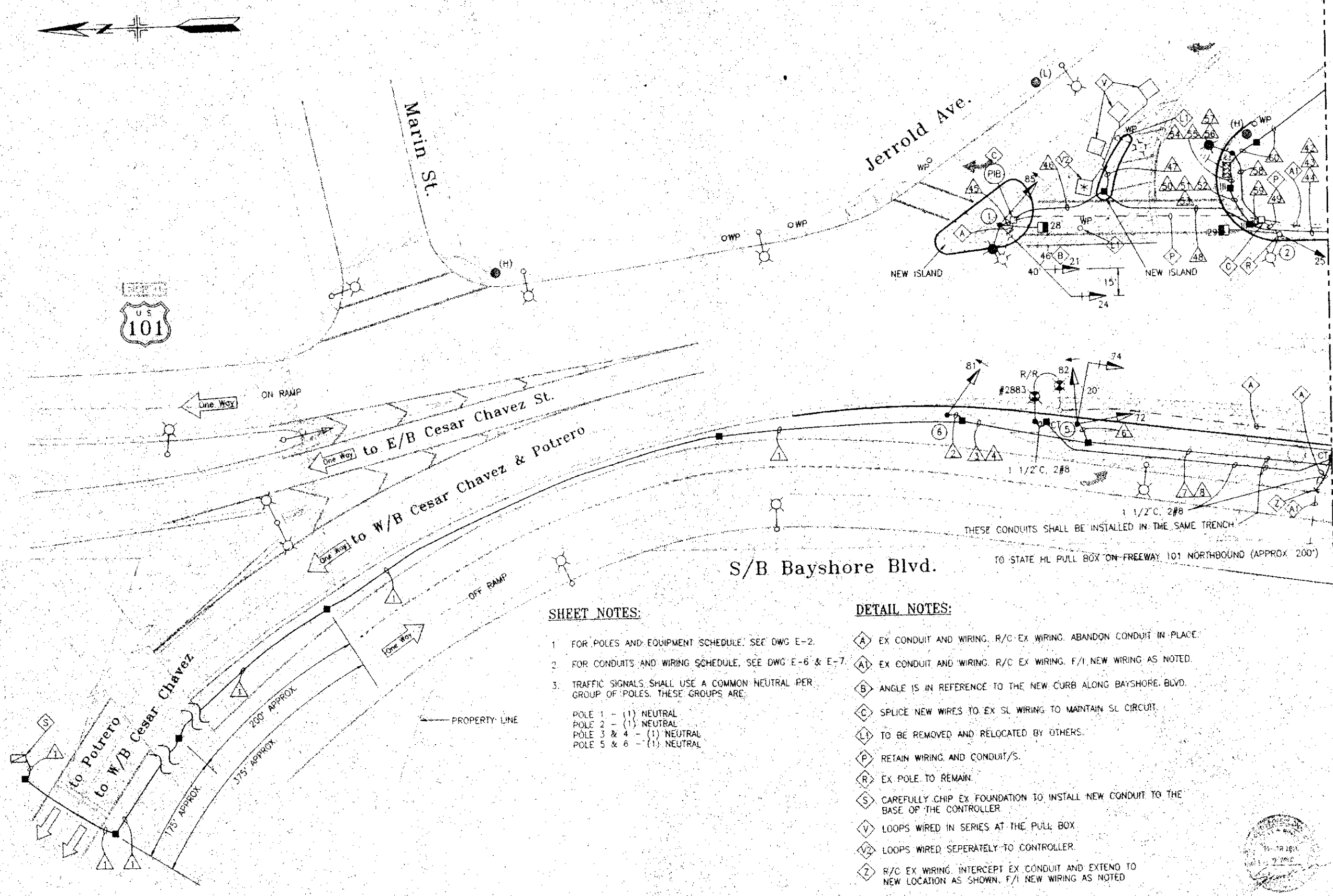


DESIGNED:	DATE:	APPROVED:	DATE:
BC	2/10/97	David H. Wolde	2/10/97
DRAWN:	DATE:	SECTION MANAGER:	DATE:
BC	2/10/97	James Chin	2/10/97
CHECKED:	DATE:	DIVISION MANAGER:	DATE:
SWT	2/10/97	David H. Wolde	2/10/97
		CITY ENGINEER:	DATE:

SCALE: NONE
SHEET OF SHEETS: 8 of 45

SAN FRANCISCO
CESAR CHAVEZ WIDENING AND
BAYSHORE CHANNELIZATION PROJECTS
SCHEDULE FOR TRAFFIC SIGNAL WORK
BAYSHORE BLVD.

SPECIFICATION NO. 1109N
DRAWING NO. B-E-2
FILE NO. 64.651
REV. NO.



SHEET NOTES:

1. FOR POLES AND EQUIPMENT SCHEDULE, SEE DWG E-2.
2. FOR CONDUITS AND WIRING SCHEDULE, SEE DWG E-6 & E-7.
3. TRAFFIC SIGNALS SHALL USE A COMMON NEUTRAL PER GROUP OF POLES. THESE GROUPS ARE:
 POLE 1 - (1) NEUTRAL
 POLE 2 - (1) NEUTRAL
 POLE 3 & 4 - (1) NEUTRAL
 POLE 5 & 6 - (1) NEUTRAL

DETAIL NOTES:

- (A) EX CONDUIT AND WIRING. R/C EX WIRING. ABANDON CONDUIT IN PLACE.
- (A1) EX CONDUIT AND WIRING. R/C EX WIRING. F/I NEW WIRING AS NOTED.
- (B) ANGLE IS IN REFERENCE TO THE NEW CURB ALONG BAYSHORE BLVD.
- (C) SPLICE NEW WIRES TO EX SL WIRING TO MAINTAIN SL CIRCUIT.
- (L) TO BE REMOVED AND RELOCATED BY OTHERS.
- (P) RETAIN WIRING AND CONDUIT/S.
- (R) EX POLE TO REMAIN.
- (S) CAREFULLY CHIP EX FOUNDATION TO INSTALL NEW CONDUIT TO THE BASE OF THE CONTROLLER.
- (V) LOOPS WIRED IN SERIES AT THE PULL BOX.
- (V2) LOOPS WIRED SEPARATELY TO CONTROLLER.
- (Z) R/C EX WIRING. INTERCEPT EX CONDUIT AND EXTEND TO NEW LOCATION AS SHOWN. F/I NEW WIRING AS NOTED.

MATCH LINE "A" ON DWG E-4

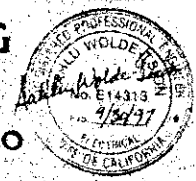
FILE NAME: 1109N00
ORIGIN: ELECTRICAL
DATE:

NO.	DATE	DESCRIPTION	BY	APP.
TABLE OF REVISIONS				
CHECK WITH TRACING TO SEE IF YOU HAVE LATEST REVISION				

REFERENCE
INFORMATION & FILE
No. OF SURVEYS



BUREAU OF ENGINEERING
DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF SAN FRANCISCO



DESIGNED: DATE: 2/10/97
BC
DRAWN: DATE: 2/10/97
BC
CHECKED: DATE: 2/10/97
SWT

APPROVED
SECTION MANAGER: DATE: 3/1/97
DIVISION MANAGER: DATE: 3/1/97
CITY ENGINEER: DATE: 3/1/97

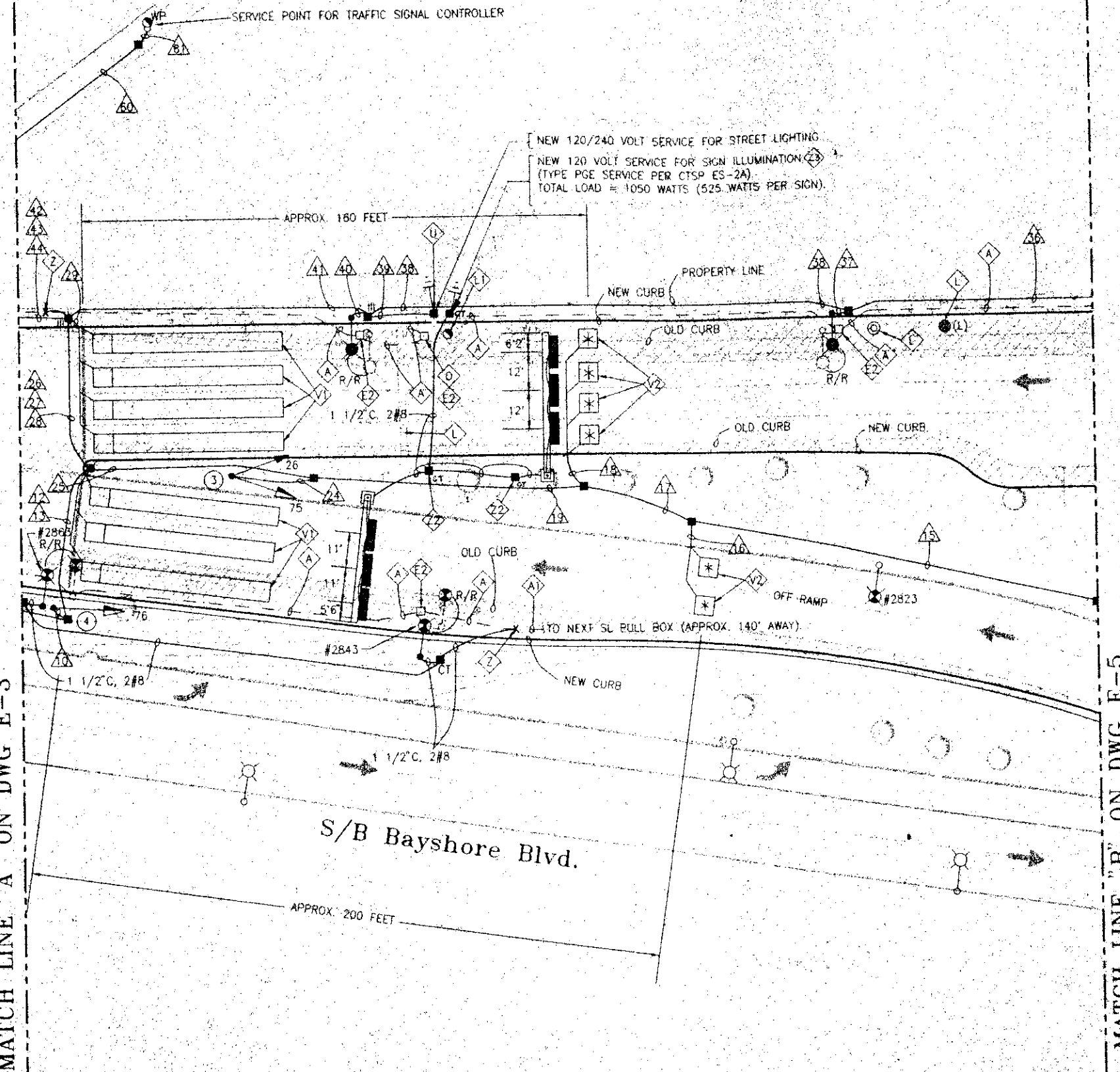
SCALE:
1" = 20'-0"
SHEET OF SHEETS:
9 of 45

SAN FRANCISCO
CESAR CHAVEZ WIDENING AND
BAYSHORE CHANNELIZATION PROJECTS

TRAFFIC SIGNAL WORK
BAYSHORE BLVD.

SPECIFICATION NO.
1109N
DRAWING NO.
B-E-3
FILE NO.
64.652
REV. NO.

MATCH LINE "A" ON DWG E-3



SHEET NOTES:

1. FOR POLES AND EQUIPMENT SCHEDULE, SEE DWG E-2.
2. FOR CONDUITS AND WIRING SCHEDULE, SEE DWG E-6 & E-7.
3. TRAFFIC SIGNALS SHALL USE A COMMON NEUTRAL PER GROUP OF POLES. THESE GROUPS ARE:

POLE 1 - (1) NEUTRAL
 POLE 2 - (1) NEUTRAL
 POLE 3 & 4 - (1) NEUTRAL
 POLE 5 & 6 - (1) NEUTRAL

DETAIL NOTES:

- (A) EX CONDUIT AND WIRING. R/C EX WIRING. ABANDON CONDUIT IN PLACE.
- (A1) EX CONDUIT AND WIRING. R/C EX WIRING. F/I NEW WIRING AS NOTED.
- (E2) R/C EX PULL BOX.
- (L) TO BE REMOVED BY OTHERS.
- (L1) TO BE REMOVED AND RELOCATED BY OTHERS.
- (O) DISCONNECT TRAFFIC SIGN ILLUMINATION SERVICE.
- (U) F/I TWO (2) IN-LINE FUSE HOLDER WITH 40A FUSE FOR SL SERVICE. REFER TO SFDWPSP PLAN 49,092, TYPE C1 FOR SL SERVICE.
- (V1) LOOPS WIRED IN PARALLEL AT THE PULL BOX.
- (V2) LOOPS WIRED SEPERATELY TO CONTROLLER.
- (Z) R/C EX WIRING. INTERCEPT EX CONDUIT AND EXTEND TO NEW LOCATION AS SHOWN F/I NEW WIRING AS NOTED.
- (Z2) PROVIDE 15A IN-LINE FUSE AND FUSEHOLDER IN PULL BOX FOR SIGN ILLUMINATION.
- (Z3) F/I ONE (1) IN-LINE FUSE HOLDER WITH 30A FUSE FOR ILLUMINATED SIGNS. REFER TO SFDWPSP PLAN 49,092, TYPE A1 FOR ILLUMINATED SIGN SERVICE.

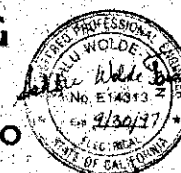
DRAWING INFORMATION
 FILE NAME: 1109N000
 ORIGIN: ELECTRICAL
 DATE:

NO.	DATE	DESCRIPTION	BY	APP.
1	8/30/97	CHANGES PER CALTRANS COMMENTS	BC	SWI
TABLE OF REVISIONS				
CHECK WITH TRACING TO SEE IF YOU HAVE LATEST REVISION				

REFERENCE INFORMATION & FILE NO. OF SURVEYS



BUREAU OF ENGINEERING
 DEPARTMENT OF PUBLIC WORKS
 CITY AND COUNTY OF SAN FRANCISCO



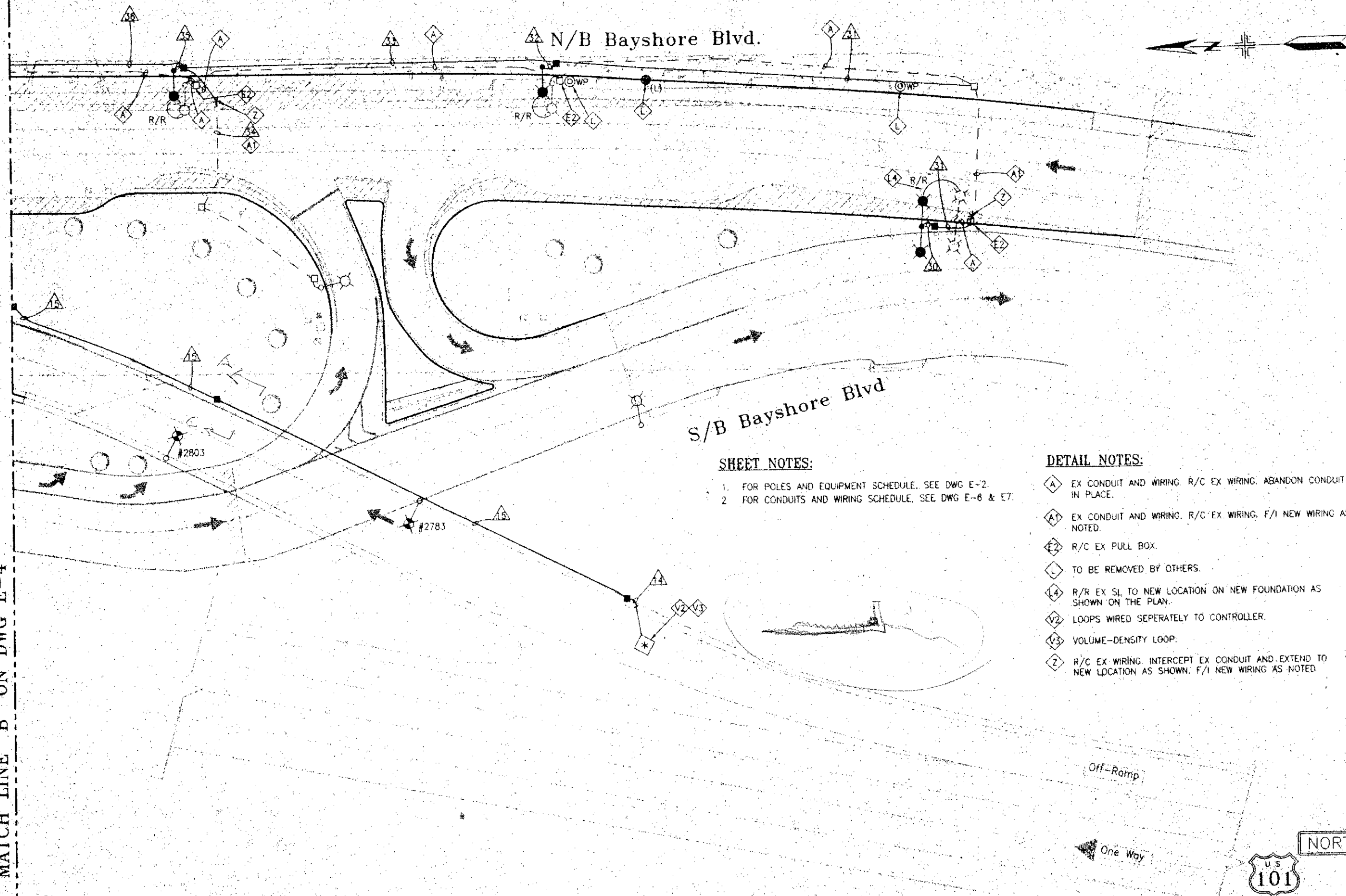
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DRAWN	DATE	SECTION MANAGER	DATE
BC	2/10/87	<i>[Signature]</i>	7/20/97
CHECKED	DATE	DIVISION MANAGER	DATE
SWI	2/10/87	<i>[Signature]</i>	5-1-97
		CITY ENGINEER	

SCALE
1"=20'-0"
SHEET OF SHEETS
10 of 45

SAN FRANCISCO
 CESAR CHAVEZ WIDENING AND
 BAYSHORE CHANNELIZATION PROJECTS
 TRAFFIC SIGNAL WORK
 BAYSHORE BLVD.

SPECIFICATION NO.	1109N
DRAWING NO.	B-E-4
FILE NO.	64,653
REV. NO.	

MATCH LINE "B" ON DWG E-4



SHEET NOTES:

1. FOR POLES AND EQUIPMENT SCHEDULE, SEE DWG E-2.
2. FOR CONDUITS AND WIRING SCHEDULE, SEE DWG E-6 & E7.

DETAIL NOTES:

- A EX CONDUIT AND WIRING. R/C EX WIRING. ABANDON CONDUIT IN PLACE.
- A1 EX CONDUIT AND WIRING. R/C EX WIRING. F/I NEW WIRING AS NOTED.
- E2 R/C EX PULL BOX.
- L TO BE REMOVED BY OTHERS.
- L4 R/R EX SL TO NEW LOCATION ON NEW FOUNDATION AS SHOWN ON THE PLAN.
- V2 LOOPS WIRED SEPERATELY TO CONTROLLER.
- V3 VOLUME-DENSITY LOOP.
- Z R/C EX WIRING. INTERCEPT EX CONDUIT AND EXTEND TO NEW LOCATION AS SHOWN. F/I NEW WIRING AS NOTED.

FILE NAME: 1109N00
ORIGIN: ELECTRICAL
DATE: 2/10/97

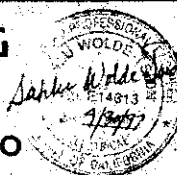
NO.	DATE	DESCRIPTION	BY	APP.

CHECK WITH TRACING TO SEE IF YOU HAVE LATEST REVISION

REFERENCE
INFORMATION & FILE
NO. OF SURVEYS



BUREAU OF ENGINEERING
DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF SAN FRANCISCO



DESIGNED: DATE: 2/10/97
DRAWN: DATE: 2/10/97
CHECKED: DATE: 2/10/97
SWT

APPROVED: DATE: 2/10/97
SECTION MANAGER: DATE: 2/10/97
DIVISION MANAGER: DATE: 2/10/97
CITY ENGINEER: DATE: 2/10/97

SCALE: 1" = 20'-0"
SHEET OF SHEETS: 11 of 45

SAN FRANCISCO
CESAR CHAVEZ WIDENING AND
BAYSHORE CHANNELIZATION PROJECTS
TRAFFIC SIGNAL WORK
BAYSHORE BLVD.

SPECIFICATION NO. 1109N
DRAWING NO. B-E-5
FILE NO. 64,654
REV. NO.

CONDUIT AND WIRING SCHEDULE																																					
CONDUIT RUN NUMBER	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	
CONDUIT SIZE (INCH)	2	2	2	2		2	2	2	1 1/2	2	1 1/2	2	2	2	2	2	2	2	2					2	2	2	2	2	2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	
NOTES					NOT USED															NOT USED	NOT USED	NOT USED	NOT USED														
#14 WIRES																																					
SIGNAL 81		3		3				3					3														3										
SIGNAL 82						3		3					3														3										
SIGNAL 74						3		3					3														3										
SIGNAL 72						3		3					3														3										
SIGNAL 76									3				3													3	3		3								
SIGNAL 26																									3	3		3									
SIGNAL 75																									3	3		3									
SIGNAL 85																																					
SIGNAL 28																																					
SIGNAL 21																																					
SIGNAL 24																																					
SIGNAL 25																																					
SIGNAL 29																																					
SPARE		3		3		3		3		3			3												3	3		3									
TOTAL #14 WIRES		6		6		12		15		6			18												9	9		24									
#10 WIRES NEUTRAL		1		1		2		1		1			2												1	1		2									
#8 WIRES(120V SERVICE)																																					
#8 WIRES(STREET LGT)																																					
#6 WIRES(STREET LGT)									2		2																										
LOOP DETECTOR CABLE																																					
LOOP DETECTOR WIRE														2		4		8								7		8									
12/C INTERCONNECT	1		1			1					1															1											

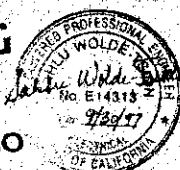
FILE NAME: T10RNE6
 ORIGIN: ELECTRICAL
 DATE: 2/10/97
 LIMITS: NONE
 PLOT SCALE: NONE

NO.	DATE	DESCRIPTION	BY	APP.
1	2/10/97	TABLE OF REVISIONS		
2		CHECK WITH TRACING TO SEE IF YOU HAVE LATEST REVISION		

REFERENCE
 INFORMATION & FILE
 NO. OF SURVEYS



BUREAU OF ENGINEERING
 DEPARTMENT OF PUBLIC WORKS
 CITY AND COUNTY OF SAN FRANCISCO



DESIGNED:	DATE:	APPROVED:	SCALE:
BC	2/10/97	<i>[Signature]</i> 2/10/97	NONE
DRAWN:	DATE:	SECTION MANAGER:	
BC	2/10/97	<i>[Signature]</i> 2/10/97	
CHECKED:	DATE:	DIVISION MANAGER:	
SWT	2/10/97	<i>[Signature]</i> 2/10/97	
		CITY ENGINEER:	

SAN FRANCISCO
 CESAR CHAVEZ WIDENING AND
 BAYSHORE CHANNELIZATION PROJECTS
 SCHEDULE FOR TRAFFIC SIGNAL WORK/
 ELECTRICAL DETAILS

SPECIFICATION NO.	1109N
DRAWING NO.	B-E-6
FILE NO.	64,655
REV. NO.	



[illegible]

* - EX SL WIRING TO REMAIN.

SPECIFICATION NO.	1109N
DRAWING NO.	B-E-7
FILE NO.	64.856
REV. NO.	