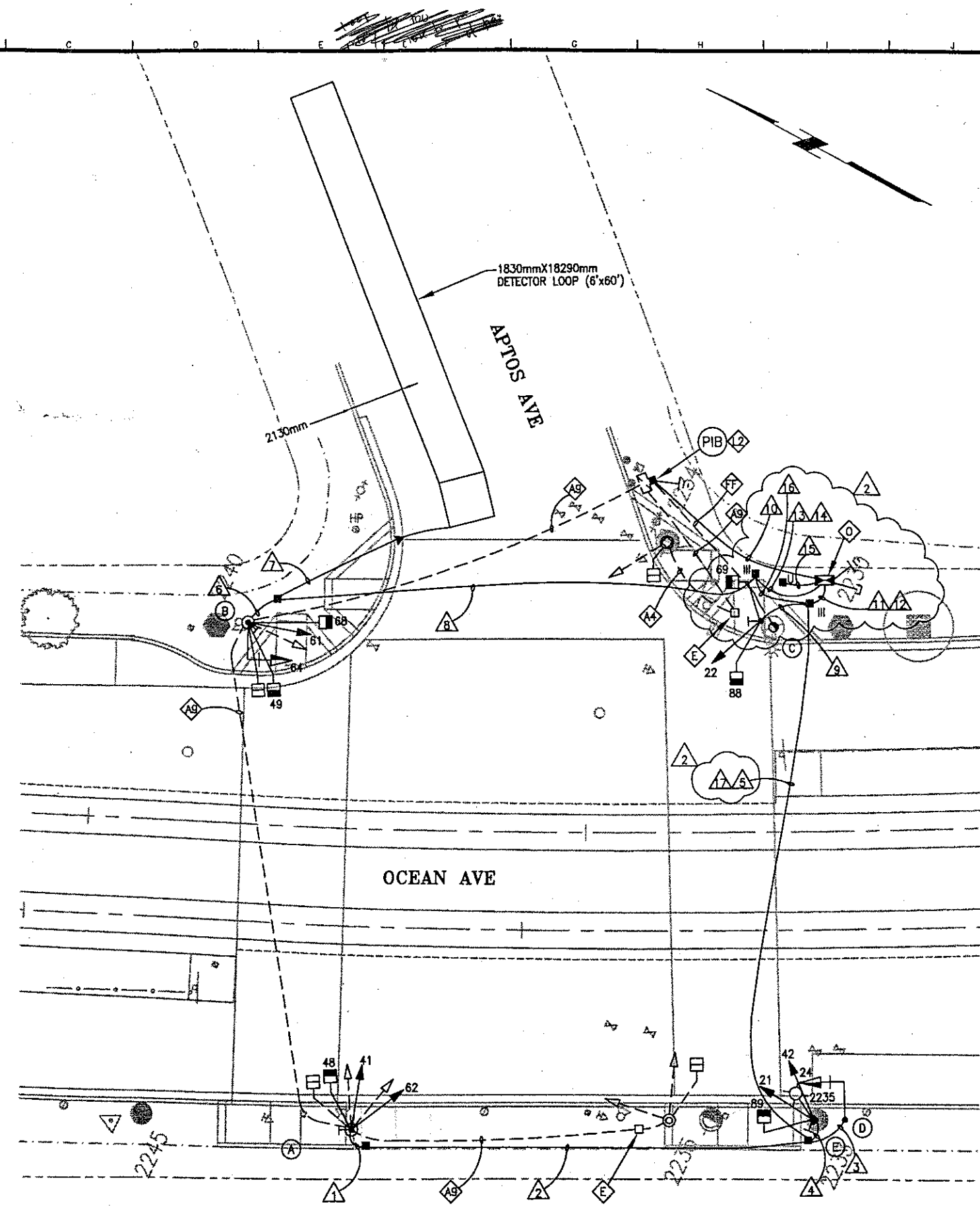
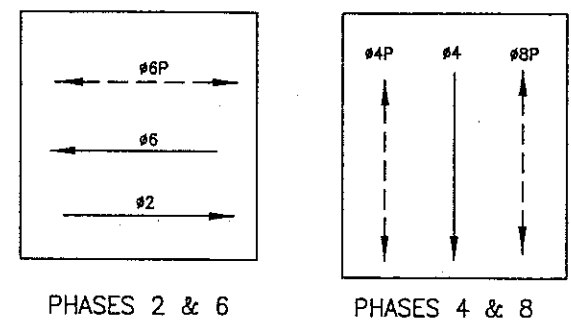


SIGNAL SWITCHED OVER ON 12/12/2002

FLASH @ 10:48 AM
3-COLOR @ 11:06 AM
- BBD



STEADY DEMAND PHASE DIAGRAM



PHASE SEQUENCE

G		Y	R		OCEAN AVE
R			G	Y	APTOS AVE
WM	FRH		RH		PED XING APTOS
RH			WM	FRH	PED XING OCEAN

SHEET NOTE:

1. ADDITIONAL CONDUIT AND 12/C TO BE FURNISHED AND INSTALLED AT THIS INTERSECTION ARE SHOWN ON DWG ET-37.

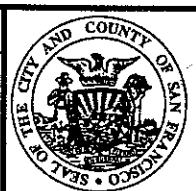
DETAIL NOTES:

- 44 EX CONDUIT AND WIRING. R/C EX WIRING AND CONDUIT. REPAIR SIDEWALK TO MATCH EX.
- FF EX PG&E SERVICE WIRES TO REMAIN.
- 49 EX CONDUIT AND WIRING. R/C EX WIRING. ABANDON REMAINING CONDUIT IN PLACE.
- E R/C EX PULL BOX. REPAIR SIDEWALK TO MATCH EX.
- 12 F/1 IN-LINE FUSE HOLDER W/ 40A FUSE FOR IC SERVICE. SPLICE NEW WIRES TO EX PG&E SERVICE TO SUPPORT NEW IC.
- D CUT BACK VEGETATION AS NEEDED.
- R EX MUNI POLE TO BE REMOVED BY MUNI.

FOR ORIGINAL SIGNATURES, SEE DRAWING NO. ET-7, REV. 0

TABLE OF REVISIONS		CHECK WITH TRACING TO SEE IF YOU HAVE LATEST REVISION	
NO.	DATE	DESCRIPTION	BY APP.
3/02		PCO#3 - REISSUE PCD#1 (SUPERSEDES REV. 1)	BC BBD
4/17/01		PER NEW M-SF REQUIREMENT	BC BBD

REFERENCE INFORMATION
& FILE NO. OF SURVEYS



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

DESIGNED: DATE: 8/00
CL/CF/JM
DRAWN: DATE: 8/00
EF/JS
CHECKED: DATE: 8/00
TS/NKS

APPROVED
SECTION MANAGER DATE:
DIVISION MANAGER DATE:
CITY ENGINEER DATE:

SCALE:
1 : 100
SHEET OF SHEETS

MUNI METRO SYSTEM
OCEAN AVENUE RECONSTRUCTION
AND IMPROVEMENTS PROJECT
OCEAN AVE. TRAFFIC SIGNAL UPGRADE
OCEAN AVE AND APTOS AVE.

SPECIFICATION NO.
MR-1130
DRAWING NO.
ET-7
FILE NO.
75,257
REV. NO.
2

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
CONDUIT SIZE (mm)	53	53	53	53	53	53	40	53	53	40	53	53	53	53	40	53	53								
NOTES				F											U		SP								
#14 WIRES																									
SIGNAL 41	3	3			3							3													
SIGNAL 62	3	3			3							3													
SIGNAL 48	2	2			2							2													
PPB	2	2			2							2													
SIGNAL 24			3		3							3													
SIGNAL 89				2	2							2													
SIGNAL 42				3	3							3													
SIGNAL 21				3	3							3													
PPB				2	2							2													
SIGNAL 64						3		3						3											
SIGNAL 61						3		3						3											
SIGNAL 49						3		3						3											
SIGNAL 68						2		2						2											
PPB						2		2						2											
SIGNAL 22									3					3											
SIGNAL 88									2					2											
SIGNAL 69									2					2											
PPB									2					2											
SPARE			3		3					3			3												
#14 WIRES NEUTRAL	2		3	1		4				3				3											
TOTAL #14 WIRES	12	13	13	4	26	17		16	12		26			25											
#10 WIRES NEUTRAL		1			2			1			2			2											
#8 WIRES (120V SERVICE)											2														
#6 BSCW											1														
DLW							2																		
DLC								1																	
6.35mm (1/4") NYLON PULL ROPE																								1	

POLE AND EQUIPMENT SCHEDULE									
POLE No.	TYPE OF POLE	LUMINAIRE (HPS)	VEHICLE SIGNAL			PEDESTRIAN SIGNAL			REMARKS
		VOLTAGE/WATTS	No.	TYPE	MOUNTING (F/I)	No.	TYPE	MOUNTING (F/I)	
(A)	1-A(10')		41 62	3S8" V1 3S8" V1	TV-2-T-SF	48	1S-IN	SP-1	PPB
(B)	16-1-70 WITH 8' MASTARM		61 64	3S8" V1 3S12" V3	SV-1-T MAS	49 68	1S-IN 1S-IN	SP-1 SP-1	PPB BACKPLATE
(C)	1-A(10')		22	3S8" V1	TV-1	69 88	1S-IN 1S-IN	SP-1 SP-1	PPB
(D)	16-1-70 WITH 8' MASTARM		24	3S12" V3	MAS				PPB BACKPLATE
(E)	MUNI #2235		21 42	3S8" V1 3S8" V1	SV-2-T	89	1S-IN	SP-1	

DETAIL NOTE:

- F SIGNALS SHALL USE NEW EXTERNAL CONDUIT. SURFACE MOUNTED CONDUIT SHALL BE INSTALLED ON THE SIDE OPPOSITE THE ROADWAY OR INTERSECTION.
- V1 LED RED, INCANDESCENT YELLOW, LED GREEN
- V3 LED RED, LED YELLOW, LED GREEN

FOR ORIGINAL SIGNATURES, SEE DRAWING NO. ET-8, REV. 0

NO.	DATE	DESCRIPTION	BY	APP.
3/02	PCO#3 - REISSUE PCO#1 (SUPERSEDES REV. 1)	BC	BBD	
4/18/01	PER NEW M-SF REQUIREMENT	BC	BBD	
TABLE OF REVISIONS				
CHECK WITH TRACING TO SEE IF YOU HAVE LATEST REVISION				

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SECTION MANAGER DATE:
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CITY ENGINEER DATE:

SCALE:
NONE
SHEET OF SHEETS

MUNI METRO SYSTEM
OCEAN AVENUE RECONSTRUCTION
AND IMPROVEMENTS PROJECTS
OCEAN AVE. TRAFFIC SIGNAL UPGRADE
OCEAN AND APTOS AVES SCHEULES

SPECIFICATION NO.
MR-1130
DRAWING NO.
ET-8
FILE NO.
75,258
REV. NO.
2