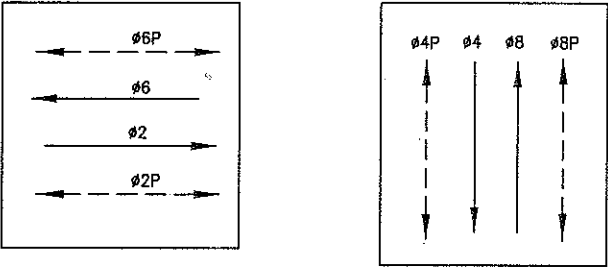


SIGNAL SWITCHED OVER ON 12/12/2002
FLASH @ 12:53 PM
3-COLOR @ 1:02 PM
— BBD

STEADY DEMAND PHASE DIAGRAM



PHASES 2 & 6 PHASES 4 & 8

PHASE SEQUENCE

G		Y	R		OCEAN AVE.
R			G	Y	MIRAMAR AVE.
WM	FRH		RH		PED XING MIRAMAR
RH			WM	FRH	PED XING OCEAN

SHEET NOTE:

1. ADDITIONAL CONDUIT, PULL BOX AND 12/C TO BE FURNISHED AND INSTALLED AT THIS INTERSECTION ARE SHOWN ON DWG ET-43.

DETAIL NOTES:

- EX CONDUIT AND WIRING. R/C EX WIRING AND CONDUIT. REPAIR SIDEWALK TO MATCH EX.
- EX CONDUIT AND WIRING. R/C EX WIRING. CUT CONDUIT FLUSH TO PULL BOX OR 12" DEPTH, CAP END(S).
- VEHICLE SIGNAL SHALL USE NEW EXTERNAL CONDUIT. SURFACE MOUNTED CONDUIT SHALL BE INSTALLED ON THE SIDE OPPOSITE THE ROADWAY OR INTERSECTION. SEE DWG. ET-2 DETAIL.
- F/I IN-LINE FUSE HOLDER W/ 40A FUSE FOR IC SERVICE. SPLICE NEW WIRES TO EX PG&E SERVICE TO SUPPORT NEW IC.
- EX PG&E SERVICE WIRES TO REMAIN.

FOR ORIGINAL SIGNATURES, SEE DRAWING NO. ET-19, REV. 0

NO.		DATE	DESCRIPTION	BY	APP.
3/02		PCO#3 - REISSUE PCO#1 (SUPERSEDES REV. 1)	BC	BBD	
5/14/01		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:	APPROVED	SCALE:
CL/CF/JM 8/00	SECTION MANAGER DATE:	1 : 100
DRAWN: DATE:	DIVISION MANAGER DATE:	SHEET OF SHEETS
EPM/EF 8/00		
CHECKED: DATE:	CITY ENGINEER DATE:	
TS/NKS 8/00		

MUNI METRO SYSTEM		SPECIFICATION NO.
OCEAN AVENUE RECONSTRUCTION AND IMPROVEMENTS PROJECT		MR-1130
OCEAN AVE. TRAFFIC SIGNAL UPGRADE		DRAWING NO.
OCEAN AVE. AND MIRAMAR AVE.		ET-19
		FILE NO.
		75,269
		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	26	27
CONDUIT SIZE (mm)	53	53	53	53	53		53	53	53	53	53	53	53	53	53	53	53	40	40	53	53	53	53	53	53	53	53
NOTES						NOT USED			SP										U								
#14 WIRES																											
SIGNAL 21	3	3		3				3																	3		
SIGNAL 24		3		3				3																	3		
SIGNAL 28	2	2		2				2																	2		
SIGNAL 89	2	2		2				2																	2		
SIGNAL 42			3	3				3																	3		
SIGNAL 41					3			3																	3		
SIGNAL 48					2			2																	2		
SIGNAL 62							3	3																	3		
SIGNAL 29							2	2																	2		
SIGNAL 22										3	3		3														
SIGNAL 88										2	2		2														
SIGNAL 69										2	2		2														
SIGNAL 81												3	3														
SIGNAL 82														3	3												
SIGNAL 49															2												
SIGNAL 68																2									2		
SIGNAL 64																3									3		
SIGNAL 61																3									3		
SPARE		3		3				3				3															
#14 WIRES NEUTRAL	3		1		2		2			3		3		1	3										1		
TOTAL #14 WIRES	10	13	4	16	7		7	26		10	10	4	13	7	11	18								4	26	8	
#10 WIRES NEUTRAL		1		1				2				1		1		2									2	1	
#8 WIRES (120V SERVICE)																		2								2	
#6 BSCW																		1								1	
6.35mm (1/4") NYLON PULL ROPE									1																		

POLE AND EQUIPMENT SCHEDULE									
POLE No.	TYPE OF POLE	LUMINAIRE (HPS) VOLTAGE/WATTS	VEHICLE SIGNAL			PEDESTRIAN SIGNAL			REMARKS
			No.	TYPE	MOUNTING (F/I)	No.	TYPE	MOUNTING (F/I)	
(A)	1-A (10')		41	3S8" V1	TV-1	48	1S-IN	SP-1	
(B)	1-A (10')		62	3S8" V1	TV-1	29	1S-IN	SP-1	
(C)	16-1-70 WITH 8' MASTARM		64 61	3S12" V3 3S8" V1	MAS SV-I-T	68	1S-IN	SP-1	BACKPLATE
(D)	1-A (10')		82	3S8" V1	TV-1	49	1S-IN	SP-1	
(E)	1-A (10')		81	3S8" V1	TV-1				
(F)	COMBINATION POLE MUNI #1490 SEE DWG 0-16 & E-16		22	3S8" V1	SV-1-T	88 69	1S-IN 1S-IN	SP-1 SP-1	
(G)	COMBINATION POLE MUNI #1495		21	3S8" V1	TV-1-T	28 89	1S-IN 1S-IN	SP-1 SP-1	
(H)	EX WOOD POLE		42	3S8" V1	SV-1-T				
(I)	16-1-70 WITH 8' MASTARM		24	3S12" V3	MAS				BACKPLATE

DETAIL NOTES:

- V1 LED RED, INCANDESCENT YELLOW, LED GREEN
- V3 LED RED, LED YELLOW, LED GREEN

NO.	DATE	DESCRIPTION	BY	APP.
3/02	PCO#3 - REISSUE PCO#1 (SUPERSEDES REV. 1)	BC	BBD	
5/14/01	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

FOR ORIGINAL SIGNATURES, SEE DRAWING NO. ET-20, REV. 0

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

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

SCALE: NONE
SHEET OF SHEETS

MUNI METRO SYSTEM
OCEAN AVENUE RECONSTRUCTION AND IMPROVEMENTS PROJECT
OCEAN AVE. TRAFFIC SIGNAL UPGRADE
OCEAN AND MIRAMAR AVES SCHEDULES

SPECIFICATION NO. MR-1130
DRAWING NO. ET-20
FILE NO. 75,270
REV. NO. 2