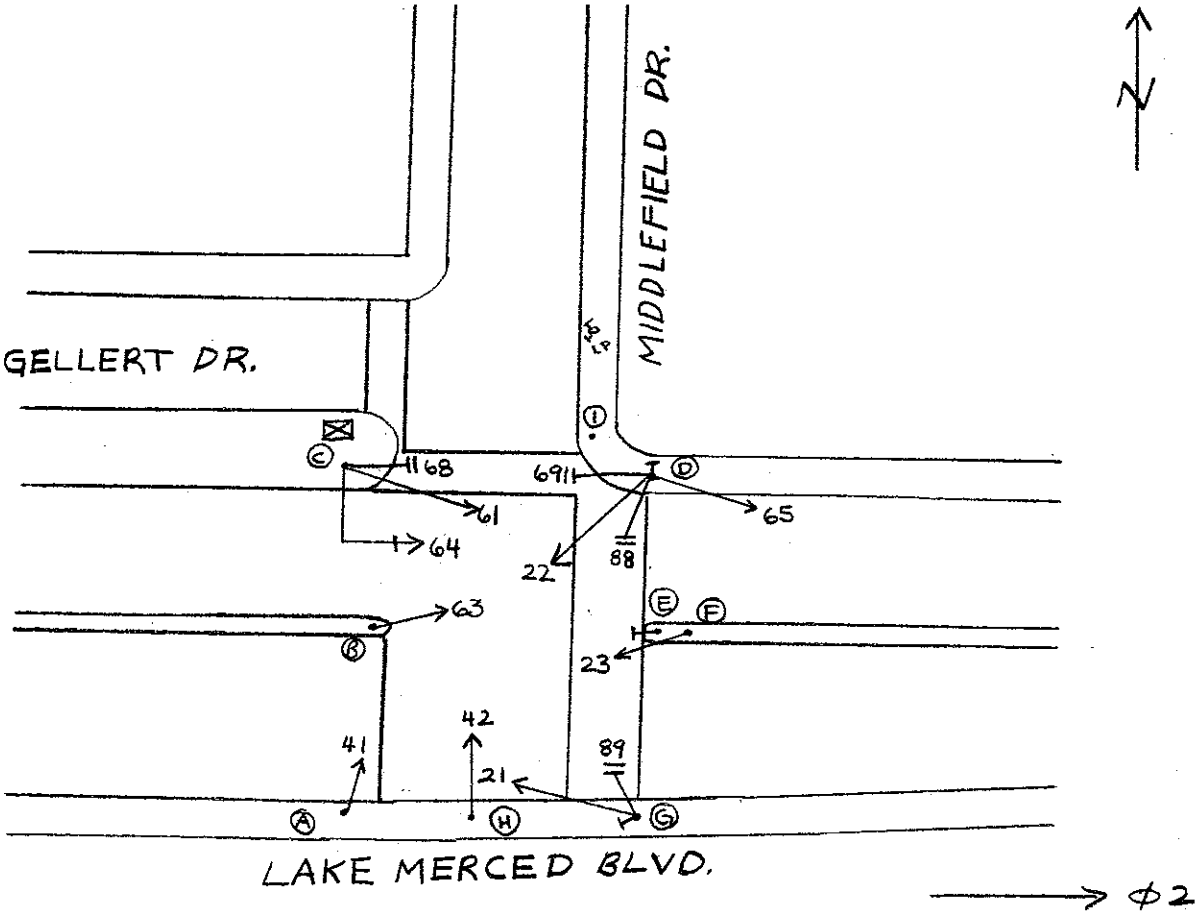


Field check 12-22-99

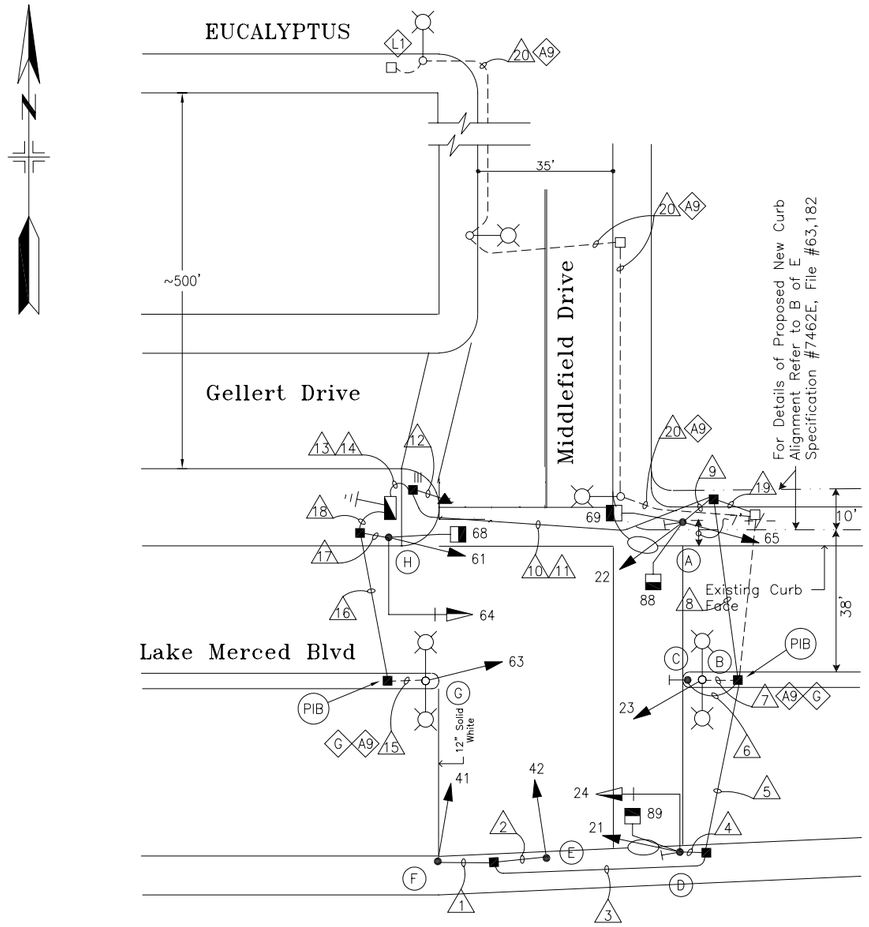
Loc	FUNC.	MAT'L
A	S	S
B	S/L	C
C	S	S
D	S	S
E	PPB*	S
F	S/L	C
G	S	S
H	S	S
I	L	C

SIGNAL NO.	MAKE	NO. OF SECT.	SIZE	VISOR	B.P. OR LOUVERS	MOUN'T
41	TCT	3	8"	T 8"	NO	T
63	TCT	3	8"	T 8"	NO	S
64	TCT	3	12"	T 12"	BP	A
61	TCT	3	8"	T 8"	NO	S
22	TCT	3	8"	T 8"	NO	T
65	TCT	3	8"	T 8"	NO	T
23	TCT	3	8"	T 8"	NO	S
21	TCT	3	12"	FC 12"	NO	T
42	TCT	3	8"	T 8"	NO	T

PED SIGNAL NO.	LEGEND	MESSAGE ELEMENT	MESSAGE COLOR	MAKE	MOUN'T
68	I	1S-I	WH/OR	ICC	S
69	I	1S-I	WH/OR	ICC	S
88	I	1S-I	WH/OR	ICC	S
89	I	1S-I	WH/OR	ICC	S

CONTROLLER CABINET SIZE: Ordinary BASE CABINET: Yes

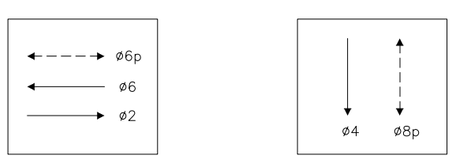
COMMENTS: New signal per Contract 51
* Pedestrian Push Button



PHASE SEQUENCE

G	Y	R		LAKE MERCED BLVD
R		G	Y	MIDDLEFIELD DRIVE
WM	FRH	RH		PED XING MIDDLEFIELD DRIVE
RH		WM	FRH	PED XING LAKE MERCED BLVD

PHASE DIAGRAM



PHASE 2 & 6 PHASE 4 & 8

DETAIL NOTES:

A9 EX CONDUIT AND WIRING. SL WIRING TO REMAIN. F/I WIRING AS NOTED.

G CAREFULLY DRILL POLE AND INSTALL CONDUIT NIPPLE FOR THE TRAFFIC SIGNAL WIRING ENTRY. AVOID DAMAGE TO THE POLES REINFORCING STEEL. USE NON SHRINK GROUT TO GROUT AROUND CONDUIT NIPPLE TO PROVIDE A WATERTIGHT SEAL. F/I SUITABLE CLAMP TO SUPPORT SIGNAL ON POLE.

L2 F/I IN-LINE FUSE HOLDER W/ 40 AMP FUSE FOR IC SERVICE. SPLICE TO LINE SIDE OF CITY SERVICE BOND TO GROUND ROD. F/I GROUND ROD IF NEEDED.

AS BUILT DRAWING
APPROVAL SIGNATURES ON ORIGINAL CONTRACT DRAWINGS.

POLE AND EQUIPMENT SCHEDULE

POLE No.	TYPE OF POLE	LUMINAIRE (HPS) VOLTAGE/ WATTS	VEHICLE SIGNAL No.	VEHICLE SIGNAL TYPE	VEHICLE SIGNAL MOUNTING (F/I)	PEDESTRIAN SIGNAL No.	PEDESTRIAN SIGNAL TYPE	PEDESTRIAN SIGNAL MOUNTING (F/I)	REMARKS
A	1-A (10')		22 65	3S8" 3S8"	TV-2-T-SF	69 88	1S-IN 1S-IN	SP-1 SP-1	PPB
B	EXISTING STREETLIGHT		23	3S8"	SV-1				
C	PPBP								PPB
D	16-1-70 15' MASTARM		21 24	3S8" 3S12"	SV-1-T MAS	89	1S-IN	SP-1	PPB BACKPLATE
E	1-A (10')		42	3S8"	TV-1				
F	1-A (10')		41	3S8"	TV-1				
G	EXISTING STREETLIGHT		63	3S8"	SV-1				
H	16-1-70 20' MASTARM		61 64	3S8" 3S12"	SV-1-T MAS	68	1S-IN	SP-1	BACKPLATE

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
CONDUIT SIZE (INCH)	2	2	2	2	2	1	EX	2	2	2	2	2	2	2	EX	2	2	2	2	EX
NOTES																				
WIRING (F/I) #14 WIRES																				
SIGNAL 41	3		3		3			3		3			3							
SIGNAL 42		3	3		3			3		3			3							
SIGNAL 21				3	3			3		3			3							
SIGNAL 24				3	3			3		3			3							
SIGNAL 89				2	2			2		2			2							
PPB				2	2			2		2			2							
PPB						2		2		2			2							
SIGNAL 23							3	3		3			3							
SIGNAL 22									3		3			3						
SIGNAL 65									3		3			3						
SIGNAL 88									2		2			2						
SIGNAL 69									2		2			2						
PPB									2		2			2						
SIGNAL 63															3	3		3		
SIGNAL 61																	3	3		
SIGNAL 64																	3	3		
SIGNAL 68																	2	2		
SPARE			3					3		3	3		3	3		3		3		
#14 WIRES NEUTRAL	1	1		3	3		1		2					1	1		3	1		
TOTAL #14 WIRES	4	4	9	13	19	2	4	24	14	24	15		24	15	4	6	11	14		
#10 WIRES NEUTRAL			1		1			2		2	1		1	1		1				
#6 WIRES (120V SERVICE)											2			2					2	2
LOOP DETECTOR WIRES												4								
DLC														2						
#8 WIRE SL																				
#6 BSCW											1			1					1	1

SERVICE WIRES FOR THIS INTERSECTION SHALL BE THWN INSULATION.

NO.	DATE	DESCRIPTION	BY	APP.
2	7/31/00	AS-BUILT	JM	SL
1	04/07/21	Per SRC 2020-282, Phase 4 loop detectors removed and replaced with SENSYS.	BBD	

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: CF/DVS DATE: 7/98
DRAWN: RT/JS DATE: 7/98
CHECKED: CF/DO'K DATE: 7/98

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

SCALE: 1"=20'-0"
SHEET OF SHEETS 16 OF 17

TRAFFIC SIGNAL INSTALLATION
CONTRACT 51

LAKE MERCED BLVD AND MIDDLEFIELD DRIVE

SPECIFICATION NO. 1664N
DRAWING NO. E-15
FILE NO. 70,170
REV. NO.

DRAWING INFORMATION:
FILE NAME: E-15
ORIGIN: ELECTRICAL
DATE:
LIMITS: (0,0), (680',440')
PLOT SCALE: 1=20'

T:\T_E_FILES\Official_Records\Signal_Inventory\As_Builts\DWG\CT51(1664N)\E-15.dwg, Model, 11/8/2007 4:51:44 PM, CLEUNG2