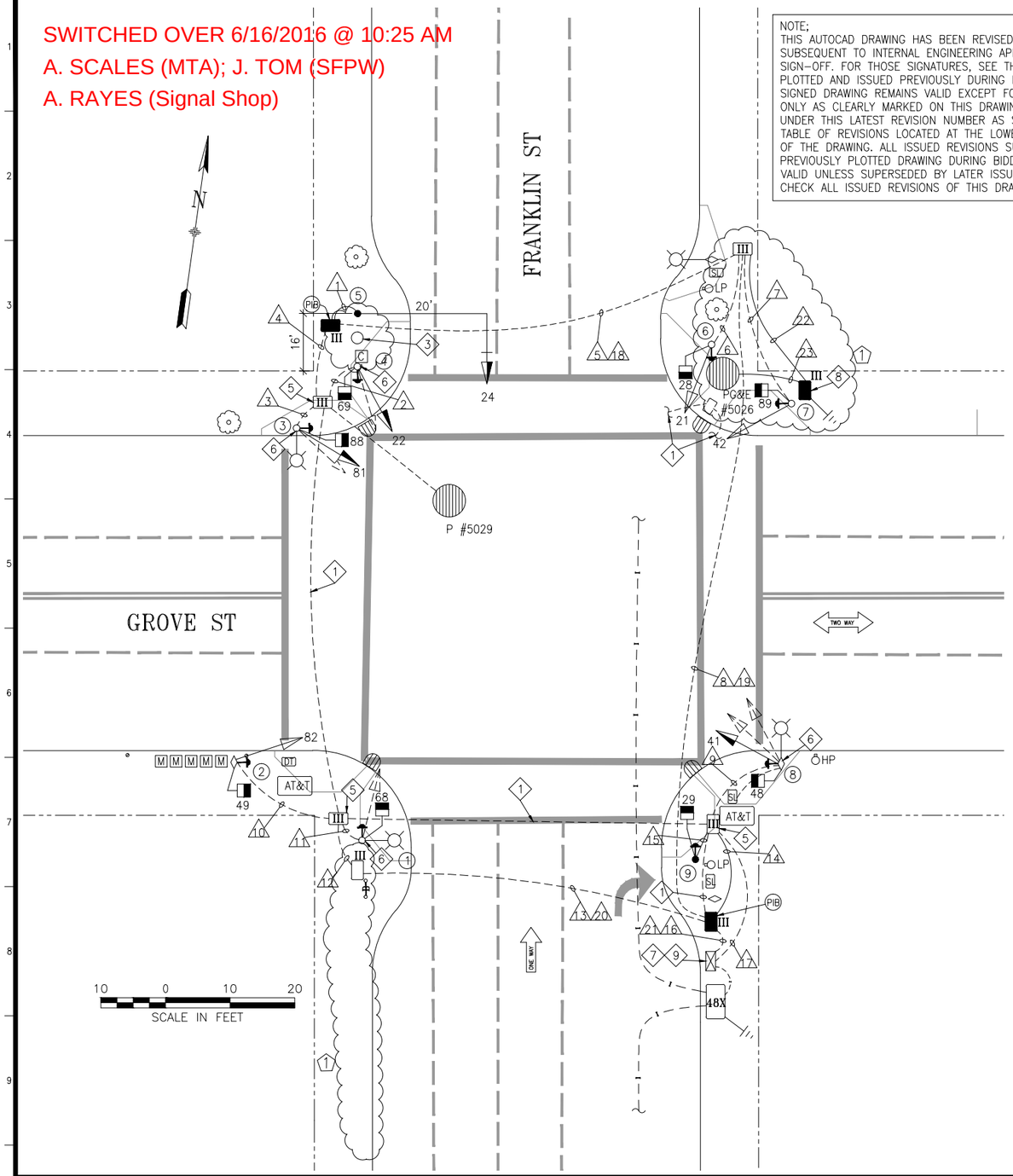
SWITCHED OVER 6/16/2016 @ 10:25 AM
A. SCALES (MTA); J. TOM (SFPW)
A. RAYES (Signal Shop)

NOTE;
THIS AUTOCAD DRAWING HAS BEEN REVISED AND REPLOTTED SUBSEQUENT TO INTERNAL ENGINEERING APPROVAL AND SIGN-OFF. FOR THOSE SIGNATURES, SEE THE DRAWING PLOTTED AND ISSUED PREVIOUSLY DURING BIDDING. THE SIGNED DRAWING REMAINS VALID EXCEPT FOR THE CHANGES ONLY AS CLEARLY MARKED ON THIS DRAWING AND ISSUED UNDER THIS LATEST REVISION NUMBER AS SHOWN IN THE TABLE OF REVISIONS LOCATED AT THE LOWER LEFT CORNER OF THE DRAWING. ALL ISSUED REVISIONS SUBSEQUENT TO PREVIOUSLY PLOTTED DRAWING DURING BIDDING REMAIN VALID UNLESS SUPERSEDED BY LATER ISSUED REVISIONS. CHECK ALL ISSUED REVISIONS OF THIS DRAWING.



POLE AND EQUIPMENT SCHEDULE

POLE No.	TYPE OF POLE	LUMINAIRE VOLTAGE/ WATTAGE	VEHICLE SIGNAL					PEDESTRIAN SIGNAL			REMARKS
			No.	TYPE	MOUNTING	VISORS	LOUVERS	No.	TYPE	MOUNTING	
①	EX MARBELITE STREET LIGHT							**68**	**1S-COUNT** ◇4	**SP-1**	**APS-2W** ◇2
②	EX MUNI POLE		82	3S12"	SV-1-T	T		**49**	**1S-COUNT** ◇4	**SP-1**	**APS-2W** ◇2
③	EX MARBELITE STREET LIGHT		**81**	**3S12"**	**SV-1-T**	**T**		**88**	**1S-COUNT** ◇4	**SP-1**	**APS-2W** ◇2
④	1-A (10')		**22**	**3S12"**	**TV-1-T**	**T**		**69**	**1S-COUNT** ◇4	**SP-1**	**APS-2W** ◇2
⑤	**16-2-100 WITH 20' MAST ARM**		**24**	**3S12"**	**MAS**	**T**					**BACKPLATE**
⑥	1-A (10')		21	3S12"	TV-1-T	T		**28**	**1S-COUNT** ◇4	**SP-1**	**APS-2W** ◇2
⑦	1-A (10')		42	3S12"	TV-1-T	T		**89**	**1S-COUNT** ◇4	**SP-1**	**APS-2W** ◇2
⑧	EX MUNI POLE WITH 6' LA		**41**	**3S12"**	**SV-1-T**	**T**		**48**	**1S-COUNT** ◇4	**SP-1**	**APS-2W** ◇2 **MOUNT 41 @ 13' ON EASTSIDE OF POLE**
⑨	**1-A (7')**							**29**	**1S-COUNT** ◇4	**TP-1**	**APS-2W** ◇2

SHEET NOTES

◇1 REMOVE EXISTING TRAFFIC SIGNAL CABLES EXCEPT SERVICES TO STREETLIGHTS AND INTERCONNECT CABLES WHERE APPLICABLE. PRIOR TO REMOVAL OF EXISTING CABLES IN EXISTING CONDUIT, CONTRACTOR TO FIELD VERIFY AND MAINTAIN EXISTING SERVICES TO STREETLIGHTS AND INTERCONNECT.

◇2 CITY FORCES TO INSTALL CITY FURNISHED APS PUSH BUTTONS ON POLES AS SHOWN ON INTERSECTION DRAWING AND AS INDICATED IN POLE & EQUIPMENT SCHEDULE. CONTRACTOR TO INSTALL APS WIRING AS INDICATED IN CONDUIT AND WIRING SCHEDULE.

◇3 FOR TREE PRUNING AT THE NW CORNER, CONTACT SAN FRANCISCO PUBLIC WORK'S BUREAU OF URBAN FORESTRY AT (415) 554-6700.

◇4 CONTRACTOR TO INSTALL CITY FURNISHED ONE SECTION LED PEDESTRIAN COUNTDOWN SIGNAL MODULE IN CONTRACTOR FURNISHED ONE SECTION PEDESTRIAN SIGNAL HOUSING.

◇5 BRING NEW CONDUITS INTO EXISTING PULL BOX. CONTRACTOR SHALL BE CAREFUL TO AVOID DAMAGE TO EXISTING PULL BOX.

◇6 REMOVE ANY UNUSED WIRES.

◇7 CONTROLLER SERVICE POINT IS A PG&E MANHOLE BOX LOCATED AT THE NORTHEAST CORNER OF FRANKLIN AND GROVE STREETS. CONTRACTOR TO COORDINATE WITH PG&E THROUGH SFPUC FOR ACTIVATION OF SERVICE POINT.

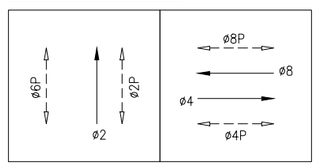
◇8 CONTRACTOR SHALL PROVIDE 40A FUSE AND FUSE HOLDER FOR TRAFFIC SIGNAL SERVICE DISCONNECT IN THE FIRST PULL BOX NEXT TO THE PG&E SERVICE POINT.

◇9 CONTRACTOR SHALL COORDINATE WITH PG&E THROUGH SFPUC FOR DEACTIVATION OF SERVICE CONNECTION WORK TO BE COMPLETED AFTER ACTIVATION OF NEW SERVICE POINT. TEN WORKING DAY'S NOTICE IS REQUIRED.

GENERAL NOTES

1. CONTRACTOR TO REFER TO DRAWING G-0.4, GENERAL NOTE 15, 36, 44, 45, 46 FOR ADDITIONAL INFORMATION.

PHASE DIAGRAM



PHASE SEQUENCE

G	Y	R						FRANKLIN ST. (NB) – ø2
R			G		Y	R		GROVE ST. (EB & WB) – ø4 & ø8
W	FRH	RH						PEDS XING GROVE ST. (ES & WS) – ø2P & ø6P
RH			W	FRH		RH		PEDS XING FRANKLIN ST. (SS & NS) – ø4P & ø8P

NO.	DATE	DESCRIPTION	BY	APP.
1	11/2015	REVISED PG&E SERVICE TO MH#5026	JH	MV

TABLE OF REVISIONS

REFERENCE INFORMATION & FILE NO. OF SURVEYS

INFRASTRUCTURE DIVISION
SAN FRANCISCO PUBLIC WORKS
CITY AND COUNTY OF SAN FRANCISCO

REGISTERED PROFESSIONAL ENGINEER STEVEN T. LEE NO. E15417 ELECTRICAL STATE OF CALIFORNIA

DESIGNED: JH/WC	DATE: 3/05/2015	APPROVED	
DRAWN: SS/WC	DATE: 3/05/2015	SECTION MANAGER	DATE:
CHECKED: STL/NW	DATE: 3/05/2015	DEPUTY DIVISION MANAGER	DATE:
		DIVISION MANAGER	DATE:

SCALE: AS SHOWN
SHEET OF SHEETS: 14 OF 73

FRANKLIN AND DIVISADERO STREET TRAFFIC SIGNAL UPGRADE

FRANKLIN STREET AND GROVE STREET TRAFFIC SIGNAL WORK

CONTRACT NO. 2596J
DRAWING NO. E-4.0
FILE NO. 100,803
REV. NO. 1

CONDUIT AND WIRING SCHEDULE (FURNISH AND INSTALL CONDUIT AND WIRES)

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
CONDUIT RUN NUMBER																								
CONDUIT SIZE (INCH)		2	UNK	UNK	2	2	2	2	2	UNK	UNK	UNK	UNK	2	2	2	3	3	2	2	2	2	2	3
			EX	EX		EX	EX	EX	EX	EX	EX	EX	EX	EX			EX	EX	SP	EX				
NOTES																								
	VEHICLE SIGNAL 24	3				3			3								3							
	VEHICLE SIGNAL 22		3		3	3			3								3							
	PED SIGNAL 69		2		2	2			2								2							
	APS PPB FOR POLE 4		2		2	2			2								2							
	VEHICLE SIGNAL 81			3	3	3			3								3							
	PED SIGNAL 88			2	2	2			2								2							
	APS PPB FOR POLE 3			2	2	2			2								2							
	VEHICLE SIGNAL 21						3										3			3				
	PED SIGNAL 28						2										2			2				
	APS PPB FOR POLE 6						2										2			2				
	VEHICLE SIGNAL 42							3									3			3				
	PED SIGNAL 89							2									2			2				
	APS PPB FOR POLE 7							2									2			2				
	VEHICLE SIGNAL 41									3								3						
	PED SIGNAL 48									2								2						
	APS PPB FOR POLE 8									2								2						
	VEHICLE SIGNAL 82										3		3	3	3			3						
	PED SIGNAL 49										2		2	2	2			2						
	APS PPB FOR POLE 2										2		2	2	2			2						
	PED SIGNAL 68											2	2	2	2			2						
	APS PPB FOR POLE 1											2	2	2	2			2						
	PED SIGNAL 29															2		2						
	APS PPB FOR POLE 9															2		2						
	#14 NEUTRAL	1	2	2	4		2	2		2	2	1				1								
	#14 SPARE				3	3			3				3	3	3		3	3						
	TOTAL #14 WIRES	4	9	9	21	20	9	9	20	9	9	5	14	14	14	5	34	25		14				
	#10 WIRES NEUTRAL					1			1				1	1	1		2	2		1				
	#10 WIRES STREET LIGHT																							
	#8 WIRES STREET LIGHT																							
	#8 WIRES (120 V SERVICE)																		1 2		2	2	2	

NOTE;
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NO.	DATE	DESCRIPTION	BY	APP.
1	11/2015	REVISED #8 SERVICE WIRES	JH	MV

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CITY AND COUNTY OF SAN FRANCISCO

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DESIGNED: JH/WC	DATE: 3/05/2015
DRAWN: SS/WC	DATE: 3/05/2015
CHECKED: STL/NW	DATE: 3/05/2015

APPROVED
SECTION MANAGER DATE:
DEPUTY DIVISION MANAGER DATE:
DIVISION MANAGER DATE:

SCALE: NONE

SHEET OF SHEETS: 15 OF 73

FRANKLIN AND DIVISADERO STREET
TRAFFIC SIGNAL UPGRADE

FRANKLIN STREET AND GROVE STREET
CONDUIT & WIRING SCHEDULE

CONTRACT NO.	2596J
DRAWING NO.	E-4.1
FILE NO.	100,804
REV. NO.	1