PG&E CODE	ITEM NO.	QNTY	ORDER NO. 30919862 DESCRIPTION	CATALOG OR DWG REFERENCE	OTHER DATA
010901	1	38'	PIPE, 24", STEEL, 24.000" OD X 0.375" WT, API-5L, X60, SAWL, BARE - 24"	GAS STD A-15	
011819	2	9'	PIPE, 16" STEEL, 16.000" OD X 0.375" WT, API-5L, GRADE B, SMLS, BARE	GAS STD A-15	
011948	3	21'	PIPE, 12", STEEL, 12.750" OD X 0.375" WT API-5L, GRADE B, SMLS, BARE	GAS STD A-15	
011689	4	292'	PIPE, 8", STEEL, 8.625" OD X 0.322" WT API-5L, GRADE B, SMLS, BARE	GAS STD A-15	
011688	5	84'	PIPE, 6", STEEL, 6.625" OD X 0.280" WT API-5L, GRADE B, SMLS, BARE	GAS STD A-15	
022091	6	6	ELBOW, 6", PIPE, WELD ENDS, 90 DEG, LR, 0.280" WT, ASTM A-234, GR B. FOR GAS PIPELINE FITTINGS, INSPECTION BY PG&E IS REQUIRED (SUITABLE FOR SEGMENTING)	GAS STD B-20	
022209	8	1	ELBOW, 16", PIPE, WELD ENDS, 90B DEG, LR, 0.375" WT, ASTM A-234, GR B. FOR GAS PIPELINE FITTINGS, INSPECTION BY PG&E IS REQUIRED (SUITABLE FOR SEGMENTING)	GAS STD B-20	
022104	9	2	ELBOW, 12", PIPE, WELD ENDS, 90 DEG, LR, 0.375" WT, ASTM A-234, GR B. FOR GAS PIPELINE FITTINGS, INSPECTION BY PG&E IS REQUIRED (SUITABLE FOR SEGMENTING)	GAS STD B-20	
022083	10	4	ELBOW, 8", PIPE, WELD ENDS, 90 DEG, LR, 0.322" WT, ASTM A-234, GR B. FOR GAS PIPELINE FITTINGS, INSPECTION BY PG&E IS REQUIRED (SUITABLE FOR SEGMENTING)	GAS STD B-20	
023305	11	2	TEE, PIPE, WELDING, REDUCING, ASTM A-234, GRADE B, STEEL, 0.375" WT, 24" X 24" X 10"	GAS STD B-20	
022210	12	1	TEE, 8", PIPE, WELDING, STRAIGHT, ASTM A-234 GRADE B, STEEL, 0.322" WT	GAS STD B-20	
022455	13	2	TEE, PIPE, WELDING, REDUCING, ASTM A-234, GRADE B, STEEL, 0.322" WALL, 8" X 8" X 6"	GAS STD B-20	
022150	14	1	TEE, 6", PIPE, WELDING, STRAIGHT, ASTM A-234, GRADE B, STEEL, 0.280" WT	GAS STD B-20	
031038	15	1	VALVE, BALL, 24", FULL PORT, CARBON STEEL, ANSI 300, WELD ENDS, BEVELED TO MATCH 24.00" OD x 0.375" WT, X60 PIPE, GEAR OPERATED, WITH HIGH HEAD EXTENDED GEARING, CENTERLINE OF VALVE TO CENTERLINE OF HANDWHEEL = 8'-0". VALVE SHALL COMPLY WITH API-6D AND MANUFACTURED PER PG&E GAS STD F-21.1, FIGURE 1(EXHIBIT 1). FOR NATURAL GAS SERVICE. MANUFACTURER _____ VALVE S/N: _____ TAG: 38.17	GAS STD F-21.1 FIGURE 1 (EXHIBIT 1)	
034556	16	4	VALVE, BALL, 8", FULL PORT, CARBON STEEL, ANSI 300, WELD ENDS, MANUALLY OPERATED, WITH 2" OPERATING NUT. VALVE SHALL COMPLY WITH API-6D AND MANUFACTURED PER PG&E GAS STD F-21.1. MANUFACTURER _____ VALVE S/N: _____ TAG:	GAS STD F-21	
031119	17	3	VALVE, BALL, 6", FULL PORT, CARBON STEEL, ANSI 300, WELD ENDS, MANUALLY OPERATED, WITH 2" OPERATING NUT. VALVE SHALL COMPLY WITH API-6D AND MANUFACTURED PER PG&E GAS STD F-21.1, FIGURE 3 (EXHIBIT 3). FOR NATURAL GAS SERVICE. (A DIM=4") MANUFACTURER _____ VALVE S/N: _____ TAG:	GAS STD F-21.1	
870000	18	2	CHECK VALVE, 8", ANSI 300, MFG: TOM WHEATLEY, FIG#55, FLANGE/FLANGE, SWING CHECK VALVE.	N/A	
022235	19	2	REDUCER, 16" x 12", PIPE, WELDING, CONCENTRIC, ASTM A-234, GRADE B STEEL, 0.375" WALL. FOR GAS PIPELINE FITTINGS, INSPECTION BY PG&E IS REQUIRED	GAS STD B-20	
022748	20	2	REDUCER, 24" x 12", PIPE, WELDING, CONCENTRIC, ASTM A-234, GRADE B , STEEL, 0.375" WALL. FOR GAS PIPELINE FITTINGS, INSPECTION BY PG&E IS REQUIRED	GAS STD B-20	
022097	21	2	REDUCER, 10" x 8", PIPE, WELDING, CONCENTRIC, ASTM A-234, GRADE B , STEEL, STANDARD WALL 0.365" X 0.322". FOR GAS PIPELINE FITTINGS, INSPECTION BY PG&E IS REQUIRED	GAS STD B-20	
022156	22	1	CAP, 16", PIPE, WELDING, ASTM A-234, GRADE B , STEEL, 0.375" WALL	GAS STD B-20	

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870000	25	1	M-STOPP FITTING, TD WILLIAMSON, ANSI 300 CLASS, 16"	GAS STD C-63.3	
025232	26	4	FLANGE, 8", WELDING NECK, 1/16" RAISED FACE, ASTM A-105, CS, ANSI 300 LB CLASS, F&D, STANDARD BORE (7.98" DIA)	GAS STD B-43	
022287	29	5	MUELLER, SAVE-A-VALVE NIPPLE, STEEL, 1"	GAS STD C-14	
015523	32	4	SUPPORT, 8" PIPE, ADJUSTABLE, STYLE "A"	GAS STD A-80	
029541	34	48	SEAL, CASING, LINK-SEAL 475-C OR PIPE LINX NO. 47, 10 LINKS PER SEAL, 6" CARRIER X 10" OPENING	GAS STD A-74	
870000	35	2	VAULT, 6'-0" X 10'-0" X 8' CONCRETE, ONE-PIECE PRECAST, FAX SKETCH OF OPENINGS TO VENDOR	GAS STD K-10.1	
043690	36	2 SETS	LID, ALUMINUM, FULL OPENING FOR 6'-0" X 10'-0" VAULT	GAS STD K-10.1	
362237	37	2	LADDER, 8', HOT DIPPED GALVANIZED WITH SAFETY STEPS	GAS STD K-23	
040323	38	2	PIT VENTILATOR CAP, 4"	GAS STD K-22	
011693	39	32'	PIPE, 4", STEEL, 4.500" OD X 0.237" WT API-5L, GRADE B SMLS BARE	GAS STD A-15	
022081	40	2	CAP, 12", PIPE, WELDING, ASTM A-234 GR B, STD WALL	GAS STD B-20	
022039	41	2	ELBOW, 4", PIPE, WELD ENDS, 90 DEG, LR, 0.237" WT, ASTM A-234, GR B. FOR GAS PIPELINE FITTINGS, INSPECTION BY PG&E IS REQUIRED (SUITABLE FOR SEGMENTING)	GAS STD B-20	
870000	42	AS REQ'D	PIPE AND FITTINGS, 4" ABS FREASH AIR PIPING IN VAULT	N/A	
870000	43	2	FLEXIBLE COUPLING, 4", STEEL-TO-PLASTIC WITH STAINLESS STEEL CLAMPS, PLUMBQWIK BRAND	N/A	
	44				
	45				
	46				
	47				
870000	48	3	CONCRETE SEAM TAPE, STOPAQ EZ WRAP, 6" X 24-FOOT ROLL	N/A	
870000	49	AS REQ'D	CONCRETE	N/A	
022008	50	7	ELBOW, 8", PIPE, WELD ENDS, 45 DEG, LR, 0.322" WT, ASTM A-234, GR B. FOR GAS PIPELINE FITTINGS, INSPECTION BY PG&E IS REQUIRED (SUITABLE FOR SEGMENTING)	GAS STD B-20	
022158	51	1	ELBOW, 6", PIPE, WELD ENDS, 45 DEG, LR, 0.280" WT, ASTM A-234, GR B. FOR GAS PIPELINE FITTINGS, INSPECTION BY PG&E IS REQUIRED (SUITABLE FOR SEGMENTING)	GAS STD B-20	
022875	52	1	MUELLER, WELDING, LINE STOPPER FITTING (THIN WALL) H-17276, 8", 720 DESIGN PRESSURE	GAS STD C-15.4	
025187	53	2	FLANGE, 6", WELDING NECK, 1/16" RAISED FACE, ASTM A-105, CS, ANSI 300 LB CLASS, F&D, STANDARD BORE (6.07" DIA)	GAS STD B-43	
870220	54	1	REINFORCING PAD, STEEL, REINFORCING, I.D. 7.125" O.D. 14.25", TO FIT 24" PIPE CONTOUR, API-5L GRADE X-60, WT 0.375"	GAS STD A-50	
011804	55	2'	PIPE, STEEL, SEAMLESS, 10.750" OD X .365" WALL, GRADE B, BARE - 10"	GAS STD A-10	
014792	57	8	THREAD O LET, 1/2"	GAS STD B-23	
020680	58	8	THREADED NIPPLE ½" X 2"	GAS STD B-13.1	
016689	60	2	GASKET, G-10, GLASS EPOXY, ANSI 300 CLASS, 6.065" ID x 9.750" OD x 1/8" THICK, WITH BUNA-N SEALING ELEMENT -- 6"	GAS STD B-45.1	
020865	60A	2	FLANGE, BLIND, 6", 1/16" RAISED FACE, ASTM A-105, CS, ANSI 300 LB CLASS, F&D, DRILLED AND TAP FOR 1/2" NPT VALVE	GAS STD B-43.2	
192958	61	24	BOLT, STUD, ASTM A-193, GRADE B7 STEEL, THREADED FULL LENGTH, WITH HEX NUTS 3/4" x 5¼" L	GAS STD B-46	

PG&E CODE	ITEM NO.	QNTY	ORDER NO. 30919862 DESCRIPTION	CATALOG OR DWG REFERENCE	OTHER DATA
020694	63	1	NIPPLE, 1" X 3" LONG, EXTRA STRONG, THREADED BOTH ENDS	GAS STD B-13.1	
034640	64	1	VALVE, 1", APPOLO, THREADED MODEL *72-105-01 MWP = 3000* PSIG @ 120 DEG, W/ LOCKING DEVICE	GAS STD F-20	
014802	65	1	THREADOLET, 1" STEEL, ASTM A-105, FOR 6" PIPE	GAS STD B-23	
035182	66	1	VALVE, ½" M x ½" F HAND, NEEDLE, 6000 PSIG MAX	GAS STD F-70	
021249	67	15	PLUG, ½", PIPE, SCREWED, HEX HEAD, FORGED STEEL, 3000# WOG, VOGT SERIES 2580 OR EQUAL	GAS STD B-10.1	
013836	68	12	BALL VALVE ½" APOLLO 73-103-01-7 MAX WORKING PRESSURE 1000 PSIG THREADED, ALLOWABLE SHELL TEST PRESSURE = 2000PSIG	GAS STD F-20	
870000	69	4	NIPPLE, SWAGE, CONCENTRIC REDUCING, STEEL, EXTRA STRONG WALL, 3" x L ¾" x ½"	MILLS IRON WORKS	
022587	70	10	ELBOW, PIPE, ¾" SOCKET-WELD, 45 DEG, FORGED STEEL, 3000 PSIG MAX	GAS STD B-21	
870000	71	2	PIPE STRAP		
011036	72	24'	PIPE, STEEL, SEAMLESS, 1.050" OD x 0.154" WALL, STANDARD, API-5L, GR B, SMLS, WRAP	GAS STD A-15	
022445	73	4	VALVE TEE, 1" MUELLER #H17656 MWP 1440 PSIG	GAS STD C-11	
043043	74	3	16" VALVE COVER, CAST IRON	GAS STD K-31	
043480	75	3	16" I.D., NO. 12 GAUGE BLACK STEEL PIPE 18" LONG	GAS STD K-31.1	
016065	76	3	CORRUGATED PLASTIC TUBING, 12"ID, 10' LENGTH	GS&S K-31.1 DWG#080895	
016690	77	9	GASKET, G-10, GLASS EPOXY, ANSI 300 CLASS, 7.981" ID x 12.000" OD x 1/8" THICK, WITH BUNA-N SEALING ELEMENT -- 8"	GAS STD B-45.1	
018566	78	3	MARKER, PIPE, 2" X 12' GALVANIZED STEEL, SCHED 40, ASTM 120, CLAMP ON U BOLT ASSEMBLY INCLUDING GALVANIZED ¼" U-BOLT FOR 2.375" OD PIPE WITH NUTS, ⅛" U BRACKET, RUBBER WASHER AND PRESS-ON 20 GAUGE PIPE CAP TO FIT 2" STD PIPE	GAS STD L-11.1	
018294	79	5	COATED ALUMINUM MARKER SIGN,	GAS STD L-11.1	
018704	80	5	CLAMP-ON U-BRACKET ASSEMBLY FOR MARKER PADDLE	GAS STD L-11.1	
569390	81	1	TEST LEAD BOX, LITTLE FINK, 2 TERMINAL (ORANGE)	GAS STD O-10.1	
360469	82	5'	CONDUIT, 1¼" PVC, SCHEDULE 40, FOR LITTLE FINK, WITH TWO GAS PIPELINE WARNING DECALS	GAS STD O-10.1	
294991	83	20'	WIRE, #10 HMWPE WITH 47 MIL THICKNESS 600 VOLTS, SOLID COPPER, BLACK INSULATION	GAS STD O-10.1	
303755	84	2	SLEEVE, COPPER, THERMOWELD A200 OR EQUIVALENT	GAS STD O-10	
159260	85	2	CARTRIDGE, CADWELD CA-15, OR THERMOWELD 15P, 15-GRAM, 20 PER BOX	GAS STD O-10	
192524	86	60	BOLT, STUD, ASTM A-193, GRADE B7 STEEL, THREADED FULL LENGTH, WITH HEX NUTS 3/4" x 5½" L	GAS STD B-46	
020867	87	1	FLANGE, BLIND, 8", 1/16" RAISED FACE, ASTM A-105, CS, ANSI 300 LB CLASS, F&D, DRILLED AND TAP FOR 1/2" NPT VALVE	GAS STD B-43.2	

PS-1201629

SAFETY

SAFETY PLEDGE

I ALWAYS PUT SAFETY FIRST.
I LOOK FOR AND ACT TO
RESOLVE UNSAFE SITUATIONS.
I HELP AND ENCOURAGE
OTHERS TO ACT SAFELY.

REGISTERED PROFESSIONAL ENGINEER GEORGE TASSO KARKAZIS No. M27357 EXP. MECHANICAL STATE OF CALIFORNIA

PSRS* 27156

NO.	DATE	DESCRIPTION	GM/SPEC	DWN	CHKD	SUPV	APVD BY
0	- -	ISSUE FOR CONSTRUCTION	30919862	D5BZ	SEW6		

REVISIONS

APPROVED BY
JN 30919862
SUPV
DSGN D. BREWER
DWN D BREWER
CHKD S. WATERS
OK
DATE 05/30/12
SCALES AS SHOWN

PIPING - GENERAL DATA
INSTALL MLV 38.17 AND BRIDLE SET
ON L-108 AND 385' OF 8" PIPE TO
DFM 1616-01.
LODI, SAN JOAQUIN COUNTY
PACIFIC GAS AND ELECTRIC COMPANY
WALNUT CREEK , CALIFORNIA

MICROFILM
BILL OF MATL SHT 10
DWG LIST
SUPSDS
SUPSD BY
SHEET NO. 10 OF 10 SHEETS
30919862 0

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