DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SF	80	13.2/13.9	387 R2	1204

REGISTERED ELECTRICAL ENGINEER 12/19/02 DATE

12-6-04
PLANS APPROVAL DATE

PB POWER, Inc.
A Parsons Brinckerhoff Company
303 Second St., Suite 700N
San Francisco, CA 94107-1317

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REGISTERED PROFESSIONAL ENGINEER JENS ERLINGSSON No. 8249 Exp. 9/30/06 ELECTRICAL STATE OF CALIFORNIA

REQUEST FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
2	03/30/09	SERVICE PLATFORM ELECTRICAL CHANGES	RR RY	RG MP	55
1	03/04/08	BARRIER MODIFICATIONS	JS BM	RG SE	44

REVISIONS

CONTRACT CHANGE ORDER NO._____
SHEET_____ OF_____

REGISTERED PROFESSIONAL ENGINEER S. A. ESTOQUE, JR. No. E-10151 Exp. 12/31/2008 ELECTRICAL STATE OF CALIFORNIA
FOR REVISION ONLY 1

REGISTERED PROFESSIONAL ENGINEER FADI WALIEDDINE No. 11465 Exp. 12/31/2009 ELECTRICAL STATE OF CALIFORNIA
FOR REVISION ONLY 2

CONDUIT DATA

Conduit No	Reference	Size	Type	Total Fill (mm²)	Allowable Fill (mm²)	Included Cable No.	Conductor Type
4037	E-73A 2	53	Liquidtight Flex. Metal Cond.	227.46	879.42	Pull rope	Soft-Fiber Polyester
						UP106-10	1-2/c + gnd #8,600 V, EPR insulation
							2
4040	E-73A 2	78	Liquidtight Flex. Metal Cond.	727.89	1935.24	1202-3	1-7/C #16,600 V, EPR insulation
						Pull rope	Soft-Fiber Polyester
			2			1202-4	1-3/C #14,600 V, EPR insulation
						1202-2	1-3/C #14,600 V, EPR insulation
						UP106-15	1-2/c + gnd #8,600 V, EPR insulation
						1202-1	1-2/c + gnd #8,600 V, EPR insulation
	2						
			2				
4076	E-74A 2	53	Liquidtight Flex. Metal Cond.	49.21	879.42	UP107-5	2 + 1 gnd #12,#12, 600 V, RHH/RHW insulation
						Pull rope	Soft-Fiber Polyester
4077	E-74A 2	53	Liquidtight Flex. Metal Cond.	205.22	879.42	UP107-10	1-2/c + gnd #12,600 V, EPR insulation
						UP207-10	1-3/C #12,600 V, EPR insulation
						Pull rope	Soft-Fiber Polyester
							2
4101	E-75A 2	53	Liquidtight Flex. Metal Cond.	254.43	879.42	Pull rope	Soft-Fiber Polyester
						UP108-5	2 + 1 gnd #12,#12, 600 V, RHH/RHW insulation
			2			UP108-17	1-2/c + gnd #12,600 V, EPR insulation
			2			UP108-11	1-2/c + gnd #12,600 V, EPR insulation
4102	E-75A 2	53	Liquidtight Flex. Metal Cond.	0.00	879.42	Pull rope	Soft-Fiber Polyester
4104	E-75A	78	Liquidtight Flex. Metal Cond.	1217.21	2564.19	2201-4	1-9/C #16,600 V, EPR insulation
						2201-2	1-2/c + gnd #8,600 V, EPR insulation
						2201-3	1-3/C #14,600 V, EPR insulation
						Pull rope	Soft-Fiber Polyester
						UP208-15	1-2/c + gnd #8,600 V, EPR insulation
						2201-1	1-2/c + gnd #8,600 V, EPR insulation
						2201-6	1-2/c + gnd #8,600 V, EPR insulation
						2201-5	1-3/C #14,600 V, EPR insulation
					2		
4108	E-117	78	RGS-PVC coated conduit	0.00	1935.24	Pull rope	Soft-Fiber Polyester
4128	E-100	53	RGS conduit	0.00	879.42	Pull rope	Soft-Fiber Polyester
4148	E-100	53	RGS conduit	0.00	879.42	Pull rope	Soft-Fiber Polyester
4149	E-96	78	RGS conduit	648.58	1935.24	A-1011-2	1-3/c + gnd #6,600 V, EPR insulation
						A-1011-2	1-3/c + gnd #6,600 V, EPR insulation
						Pull rope	Soft-Fiber Polyester
4150	E-96	78	RGS conduit	648.58	1935.24	A-1011-2	1-3/c + gnd #6,600 V, EPR insulation
						A-1011-2	1-3/c + gnd #6,600 V, EPR insulation
						Pull rope	Soft-Fiber Polyester
4151	E-96	78	RGS conduit	648.58	1935.24	A-1011-2	1-3/c + gnd #6,600 V, EPR insulation
						A-1011-2	1-3/c + gnd #6,600 V, EPR insulation
						Pull rope	Soft-Fiber Polyester
4152	E-96	78	RGS conduit	648.58	1935.24	A-1011-2	1-3/c + gnd #6,600 V, EPR insulation
						A-1011-2	1-3/c + gnd #6,600 V, EPR insulation
						Pull rope	Soft-Fiber Polyester
4153	E-96	78	RGS conduit	648.58	1935.24	A-1011-2	1-3/c + gnd #6,600 V, EPR insulation
						A-1011-2	1-3/c + gnd #6,600 V, EPR insulation
						Pull rope	Soft-Fiber Polyester

CONDUIT DATA

Conduit No	Reference	Size	Type	Total Fill (mm²)	Allowable Fill (mm²)	Included Cable No.	Conductor Type
4154	E-96	78	RGS conduit	648.58	1935.24	A-1011-2	1-3/c + gnd #6,600V, EPR insulation
						A-1011-2	1-3/c + gnd #6,600 V, EPR insulation
					2	Pull rope	Soft-Fiber Polyester
4155	E-97	78	RGS conduit	648.58	1935.24	A-1011-2	1-3/c + gnd #6,600 V, EPR insulation
						A-1011-2	1-3/c + gnd #6,600 V, EPR insulation
					2	Pull rope	Soft-Fiber Polyester
4156	E-97	78	RGS conduit	648.58	1935.24	A-1011-2	1-3/c + gnd #6,600 V, EPR insulation
						A-1011-2	1-3/c + gnd #6,600 V, EPR insulation
					2	Pull rope	Soft-Fiber Polyester
4157	E-97	78	RGS conduit	648.58	1935.24	A-1011-2	1-3/c + gnd #6,600 V, EPR insulation
						A-1011-2	1-3/c + gnd #6,600 V, EPR insulation
					2	Pull rope	Soft-Fiber Polyester
4158	E-97	78	RGS conduit	648.58	1935.24	A-1011-2	1-3/c + gnd #6,600 V, EPR insulation
						A-1011-2	1-3/c + gnd #6,600 V, EPR insulation
					2	Pull rope	Soft-Fiber Polyester
4159	E-97	78	RGS conduit	648.58	1935.24	A-1011-2	1-3/c + gnd #6,600 V, EPR insulation
						A-1011-2	1-3/c + gnd #6,600 V, EPR insulation
					2	Pull rope	Soft-Fiber Polyester
4160	E-97	78	RGS conduit	851.47	1935.24	A-1012-2	1-3/c + gnd #2 ,600V, EPR insulation
						A-1012-2	1-3/c + gnd #6,600 V, EPR insulation
					2	Pull rope	Soft-Fiber Polyester
4161	E-97	78	RGS conduit	648.58	1935.24	A-1012-2	1-3/c + gnd #6,600 V, EPR insulation
						A-1012-2	1-3/c + gnd #6,600 V, EPR insulation
					2	Pull rope	Soft-Fiber Polyester
4162	E-97	78	RGS conduit	648.58	1935.24	A-1012-2	1-3/c + gnd #6,600 V, EPR insulation
						A-1012-2	1-3/c + gnd #6,600 V, EPR insulation
					2	Pull rope	Soft-Fiber Polyester
4163	E-98	78	RGS conduit	648.58	1935.24	A-1012-2	1-3/c + gnd #6,600 V, EPR insulation
						A-1012-2	1-3/c + gnd #6,600 V, EPR insulation
					2	Pull rope	Soft-Fiber Polyester
4164	E-98	78	RGS conduit	648.58	1935.24	A-1012-2	1-3/c + gnd #6,600 V, EPR insulation
						A-1012-2	1-3/c + gnd #6,600 V, EPR insulation
					2	Pull rope	Soft-Fiber Polyester
4165	E-98	78	RGS conduit	648.58	1935.24	A-1012-2	1-3/c + gnd #6,600 V, EPR insulation
						A-1012-2	1-3/c + gnd #6,600 V, EPR insulation
					2	Pull rope	Soft-Fiber Polyester
4166	E-98	78	RGS conduit	648.58	1935.24	A-1012-2	1-3/c + gnd #6,600 V, EPR insulation
						A-1012-2	1-3/c + gnd #6,600 V, EPR insulation
					2	Pull rope	Soft-Fiber Polyester
4167	E-98	78	RGS conduit	648.58	1935.24	A-1012-2	1-3/c + gnd #6,600 V, EPR insulation
						A-1012-2	1-3/c + gnd #6,600 V, EPR insulation
					2	Pull rope	Soft-Fiber Polyester
4168	E-98	78	RGS conduit	648.58	1935.24	A-1012-2	1-3/c + gnd #6,600 V, EPR insulation
						A-1012-2	1-3/c + gnd #6,600 V, EPR insulation
					2	Pull rope	Soft-Fiber Polyester
4169	E-98	78	RGS conduit	648.58	1935.24	A-1012-2	1-3/c + gnd #6,600 V, EPR insulation
						A-1012-2	1-3/c + gnd #6,600 V, EPR insulation
					2	Pull rope	Soft-Fiber Polyester
4170	E-98	78	RGS conduit	648.58	1935.24	A-1012-2	1-3/c + gnd #6,600 V, EPR insulation
						A-1012-2	1-3/c + gnd #6,600 V, EPR insulation
					2	Pull rope	Soft-Fiber Polyester
4171	E-98	78	RGS conduit	648.58	1935.24	A-1012-2	1-3/c + gnd #6,600 V, EPR insulation
						A-1012-2	1-3/c + gnd #6,600 V, EPR insulation
					2	Pull rope	Soft-Fiber Polyester

For continuation, see next sheet.

CONDUIT AND TRAY SCHEDULE

E-432

REVISED BY	DATE REVISED
PBP	8/02

CALCULATED/DESIGNED BY	CHECKED BY
AB	

DESIGN OVERSIGHT
BEHZAD GOLEMOHAMMADI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

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DATE PLOTTED => 3/31/2009
TIME PLOTTED => 2:29:16 PM