DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SF	80	13.2/13.9	386 R4	1204

REGISTERED ELECTRICAL ENGINEER 12/19/02 DATE

12-6-04
PLANS APPROVAL DATE

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

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

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REQUEST FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
4	09/18/09	TOWER UTILITY PANELS	SYC TW	RG FW	70
3	08/03/09	ELECTRICAL WARNING SYSTEMS	RY RR	RG FW	61
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 3 4

CONDUIT DATA

Conduit No	Reference	Size	Type	Total Fill (mm2)	Allowable Fill (mm2)	Included Cable No.	Conductor Type 4
3702	E-264B	78	RGS conduit	513.46	1935.24	Pull Rope	Soft-Fiber Polyester
						UP 210-14 & 18	1-4C#8 + gnd, 600V, EPR insulation
						UP210-1B-3	1-2C#8 + gnd, 600V, EPR insulation
3717	E-285	53	RGS conduit	205.22	879.42	Pull Rope	Soft-Fiber Polyester
						UP210-1B-5	1-2C#12 + gnd, 600 V, EPR insulation
						UP210-1A-5	1-2C#12 + gnd, 600 V, EPR insulation
3718	E-285	53	RGS conduit	858	879.42	Pull Rope	Soft-Fiber Polyester
						UP210-1B-3 & 4	1-4C#8 + gnd, 600 V, EPR insulation
						UP210-1B-1 & 6	1-4C#8 + gnd, 600 V, EPR insulation
						UP210-1B-9&10	1-4C#8 + gnd, 600 V, EPR insulation
3719	E-285	53	RGS conduit	858	879.42	Pull Rope	Soft-Fiber Polyester
						UP210-1B-11&12	1-4C#8 + gnd, 600 V, EPR insulation
						UP210-1B-13&14	1-4C#8 + gnd, 600 V, EPR insulation
						UP210-1B-15&16	1-4C#8 + gnd, 600 V, EPR insulation
3720	E-285, E-285A	53	RGS conduit	527.18	879.42	Pull Rope	Soft-Fiber Polyester
						2123-3	1-3C+gnd, #2, 600V, EPR insulation
3721	E-285, E-285A	53	RGS conduit	704.81	879.42	Pull Rope	Soft-Fiber Polyester
						UP210-1B-5	2 + 1 gnd, #12, 600V, RHH/RHW insulation
						UP210-1B-3 & 4	4 + 1 gnd, #8, 600V, RHH/RHW insulation
						UP210-1B-1 & 6	4 + 1 gnd, #8, 600V, RHH/RHW insulation
						UP210-1B-9&10	1-4C#8 + gnd, 600 V, EPR insulation
3722	E-285, E-285A	53	RGS conduit	858	879.42	Pull Rope	Soft-Fiber Polyester
						UP210-1B-11&12	1-4C#8 + gnd, 600 V, EPR insulation
						UP210-1B-13&14	1-4C#8 + gnd, 600 V, EPR insulation
						UP210-1B-15&16	1-4C#8 + gnd, 600 V, EPR insulation
3723	E-285, E-285A	53	RGS conduit	0.00	879.42	Pull Rope	Soft-Fiber Polyester
3724	E-285A	27	RGS Conduit	113.19	229.03	Pull Rope	Soft-Fiber Polyester
						2123-3A	3 + 1 gnd, #6, 600V, RHH/RHW insulation
3725	E-285A	41	RGS Conduit	271.48	534.55	Pull Rope	Soft-Fiber Polyester
						2123-3B	4 + 1 gnd, #4, 600V, RHH/RHW insulation
3800	~~E-284A~~, E-264B	53	RGS-PVC coated conduit	286	879.42	UP210-16 & 20	1-4C#8 + gnd, 600 V, EPR insulation
	E-264C, E-278					Pull rope	Soft-Fiber Polyester
3801	E-280, E-284A	53	RGS-PVC coated conduit	286	879.42	UP210-1B-11&12	1-4C#8 + gnd, 600 V, EPR insulation
						Pull rope	Soft-Fiber Polyester
3802	E-264B	53	RGS conduit	513.46	879.42	Pull rope	Soft-Fiber Polyester
						UP210-16 & 20	1-4C#8 + gnd, 600 V, EPR insulation
						UP210-1B-9	1-2C#8 + gnd, 600 V, EPR insulation

CONDUIT DATA

Conduit No	Reference	Size	Type	Total Fill (mm2)	Allowable Fill (mm2)	Included Cable No.	Conductor Type 4
4007A	E-71A	78	Liquidtight Flex. Metal Cond.		1935.24	Pull rope	Soft-Fiber Polyester
4009	E-71A	53	Liquidtight Flex. Metal Cond.	60.80	879.42	Pull rope	Soft-Fiber Polyester
						UP104-5	2 + 1 gnd #10,#10, 600 V, RHH/RHW insulation
4010	E-71A	53	Liquidtight Flex. Metal Cond.	98.42	879.42	UP104-12	2 + 1 gnd #12,#12, 600 V, RHH/RHW insulation
						Pull rope	Soft-Fiber Polyester
						UP104-10	2 + 1 gnd #12,#12, 600 V, RHH/RHW insulation
4029	E-72A	78	Liquidtight Flex. Metal Cond.	1132.03	1935.24		
						UP105-15	1-2/C + gnd #8,600 V, EPR insulation
						Pull rope	Soft-Fiber Polyester
						1201-4	1-9/C #16,600 V, EPR insulation
						1201-3	1-3/C #14,600 V, EPR insulation
						1201-1	1-2/C + gnd #8,600 V, EPR insulation
						1201-6	1-2/C + gnd #8,600 V, EPR insulation
						1201-2	1-2/C + gnd #8,600 V, EPR insulation
4033	E-72A	53	Liquidtight Flex. Metal Cond.	481.89	879.42	Pull rope	Soft-Fiber Polyester
						UP105-5	2 + 1 gnd #12,#12, 600 V, RHH/RHW insulation
						UP105-13	1-2/C + gnd #12,600 V, EPR insulation
						UP105-11	1-2/C + gnd #12,600 V, EPR insulation
						UP105-15	1-2/C + gnd #8,600 V, EPR insulation
4034	E-72A	53	Liquidtight Flex. Metal Cond.	0.00	879.42	Pull rope	Soft-Fiber Polyester
4036	E-73A	53	Liquidtight Flex. Metal Cond.	276.67	879.42	UP106-5	2 + 1 gnd #12,#12, 600 V, RHH/RHW insulation
							1-2/C + gnd #8,600 V, EPR insulation
						Pull rope	Soft-Fiber Polyester

For continuation, see next sheet.

CONDUIT AND TRAY SCHEDULE

E-431

REVISED BY	DATE REVISED
PBP	DATE 8/02
AB	8/02

CALCULATED/DESIGNED BY
CHECKED BY

DESIGN OVERSIGHT
BEHZAD GOLEMOHAMMADI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00
DATE PLOTTED => 12/10/2009
TIME PLOTTED => 4:08:23 PM

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80

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