DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SF	80	13.2/13.9	378 R4	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

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

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Caltrans Metric

REQUEST FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
4	05/14/12	ADDITIONAL CABLE LEDs	CK	NK	250
3	03/02/12	ADDITIONAL CABLE LEDs	RR	RG	167S2
2	02/18/11	CABLE ELECTRICAL-LED AVIATION LIGHTS	TW	RG	72S1
1	09/24/08	CABLE ELECTRICAL	RR AG	RG SE	72

REVISIONS

CONTRACT CHANGE ORDER NO. _____
SHEET _____ OF _____

4 CCO 167S2 RENUMBERED TO CCO 250

REGISTERED PROFESSIONAL ENGINEER DAVID H. OTO No. 10699 Exp. 06/30/2013 ELECTRICAL STATE OF CALIFORNIA
FOR REVISION ONLY 3

REGISTERED PROFESSIONAL ENGINEER SYN YEE CHIN No. 18186 ELECTRICAL STATE OF CALIFORNIA
FOR REVISION ONLY 4 2

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

CONDUIT DATA

Conduit No	Reference	Size	Type	Total Fill (mm²)	Allowable Fill (mm²)	Included Cable No.	Conductor Type
3130	E-100	41	RGS-PVC coated conduit	527.18	534.55	A-3013-1	1-3/C + gnd #2,600 V, EPR insulation
						Pull rope	Soft-Fiber Polyester
3131	E-230	41	Liquidtight flexible metal	484.32	511.11	Pull rope	Soft-Fiber Polyester
			conduit			S-3022-2	3 + 1 gnd #6,#8, 600 V, RHH/RHW insulation
						S-3023-2	3 + 1 gnd #6,#8, 600 V, RHH/RHW insulation
						S-3056-15	2-1/C #14, 600 V, EPR insulation
						S-3056-16	2-1/C #14, 600 V, EPR insulation
3132	E-230	41	Liquidtight flexible metal	484.32	511.11	S-3023-2	3 + 1 gnd #6,#8, 600 V, RHH/RHW insulation
			conduit			S-3022-2	3 + 1 gnd #6,#8, 600 V, RHH/RHW insulation
						S-3056-15	2-1/C #14, 600 V, EPR insulation
						S-3056-16	2-1/C #14, 600 V, EPR insulation
						Pull rope	Soft-Fiber Polyester
3133	E-229, E-230	41	Liquidtight flexible metal	484.32	511.11	S-3023-2	3 + 1 gnd #6,#8, 600 V, RHH/RHW insulation
			conduit			Pull rope	Soft-Fiber Polyester
						S-3056-16	2-1/C #14, 600 V, EPR insulation
						S-3022-2	3 + 1 gnd #6,#8, 600 V, RHH/RHW insulation
						S-3056-15	2-1/C #14, 600 V, EPR insulation
3134	E-229	41	Liquidtight flexible metal	484.32	511.11	S-3023-2	3 + 1 gnd #6,#8, 600 V, RHH/RHW insulation
			conduit			S-3022-2	3 + 1 gnd #6,#8, 600 V, RHH/RHW insulation
						S-3056-15	2-1/C #14, 600 V, EPR insulation
						S-3056-16	2-1/C #14, 600 V, EPR insulation
						Pull rope	Soft-Fiber Polyester
3 3135	E-229	41	Liquidtight flexible metal	484.32	511.11	S-3023-2	3 + 1 gnd #6,#8, 600 V, RHH/RHW insulation
			conduit			S-3022-2	3 + 1 gnd #6,#8, 600 V, RHH/RHW insulation
						S-3056-15	2-1/C #14, 600 V, EPR insulation
						S-3056-16	2-1/C #14, 600 V, EPR insulation
						Pull rope	Soft-Fiber Polyester
3137	E-229	41	Liquidtight flexible metal	484.32	511.11	Pull rope	Soft-Fiber Polyester
			conduit			S-3056-16	2-1/C #14, 600 V, EPR insulation
						S-3056-15	2-1/C #14, 600 V, EPR insulation
						S-3023-2	3 + 1 gnd #6,#8, 600 V, RHH/RHW insulation
						S-3022-2	3 + 1 gnd #6,#8, 600 V, RHH/RHW insulation
3138	E-228, E-229	41	Liquidtight flexible metal	271.47	511.11	S-3022-2	3 + 1 gnd #6,#8, 600 V, RHH/RHW insulation
			conduit			Pull rope	Soft-Fiber Polyester
						S-3056-15	2-1/C #14, 600 V, EPR insulation
						S-3056-16	2-1/C #14, 600 V, EPR insulation
3139	E-228	41	Liquidtight flexible metal	455.01	511.11	Pull rope	Soft-Fiber Polyester
			conduit			3 S-3056-15	2-1/C #14, 600 V, EPR insulation
						S-3056-2	3 + 1 gnd #6,#8, 600 V, RHH/RHW insulation
						S-3022-2	3 + 1 gnd #6,#8, 600 V, RHH/RHW insulation
3140	E-228	41	Liquidtight flexible metal	455.01	511.11	Pull rope	Soft-Fiber Polyester
			conduit			S-3056-2	3 + 1 gnd #6,#8, 600 V, RHH/RHW insulation
						S-3022-2	3 + 1 gnd #6,#8, 600 V, RHH/RHW insulation
						3 S-3056-15	2-1/C #14, 600 V, EPR insulation
3141	E-228	41	Liquidtight flexible metal	455.01	511.11	S-3022-2	3 + 1 gnd #6,#8, 600 V, RHH/RHW insulation
			conduit			S-3056-2	3 + 1 gnd #6,#8, 600 V, RHH/RHW insulation
						Pull rope	Soft-Fiber Polyester
						3 S-3056-15	2-1/C #14, 600 V, EPR insulation
3142	E-227, E-228	41	Liquidtight flexible metal	425.70	511.11	S-3022-2	3 + 1 gnd #6,#8, 600 V, RHH/RHW insulation
			conduit			S-3056-2	3 + 1 gnd #6,#8, 600 V, RHH/RHW insulation
						Pull rope	Soft-Fiber Polyester
3143	E-96	53	RGS conduit	724.32	879.42		
						S-3056-1	1-3/C + gnd #6,600 V, EPR insulation
						S-3056-7	1-2/C #14,600 V, EPR insulation
						Pull rope	Soft-Fiber Polyester
						S-3021-1	1-3/C + gnd #4,600 V, EPR insulation
3144	E-96	53	RGS conduit	852.74	879.42	A-3008-1	1-2/C + gnd #8,600 V, EPR insulation
						A-3011-1	1-3/C + gnd #2,600 V, EPR insulation
						Pull rope	Soft-Fiber Polyester
						S-3056-5	1-4/C #14,600 V, EPR insulation
3145	E-96	41	RGS conduit	0.00	534.55	Pull rope	Soft-Fiber Polyester
3146	E-96	41	RGS conduit	0.00	534.55	Pull rope	Soft-Fiber Polyester

CONDUIT DATA

Conduit No	Reference	Size	Type	Total Fill (mm²)	Allowable Fill (mm²)	Included Cable No.	Conductor Type
3148	E-50, E-100	41	RGS-PVC coated conduit	425.70	534.55	A-3012-2	3 + 1 gnd #6,#8, 600 V, RHH/RHW insulation
						Pull rope	Soft-Fiber Polyester
						A-3013-2	3 + 1 gnd #6,#8, 600 V, RHH/RHW insulation
3150	E-230	41	Liquidtight flexible metal	425.70	511.11	Pull rope	Soft-Fiber Polyester
						A-3013-2	3 + 1 gnd #6,#8, 600 V, RHH/RHW insulation
			conduit			A-3012-2	3 + 1 gnd #6,#8, 600 V, RHH/RHW insulation
3151	E-230	41	Liquidtight flexible metal	425.70	511.11	A-3013-2	3 + 1 gnd #6,#8, 600 V, RHH/RHW insulation
			conduit			Pull rope	Soft-Fiber Polyester
						A-3012-2	3 + 1 gnd #6,#8, 600 V, RHH/RHW insulation
3152	E-229, E-230	41	Liquidtight flexible metal	425.70	511.11	A-3013-2	3 + 1 gnd #6,#8, 600 V, RHH/RHW insulation
			conduit			A-3012-2	3 + 1 gnd #6,#8, 600 V, RHH/RHW insulation
						Pull rope	Soft-Fiber Polyester
3153	E-229	41	Liquidtight flexible metal	425.70	511.11	A-3012-2	3 + 1 gnd #6,#8, 600 V, RHH/RHW insulation
			conduit			A-3013-2	3 + 1 gnd #6,#8, 600 V, RHH/RHW insulation
						Pull rope	Soft-Fiber Polyester
3154	E-229	41	Liquidtight flexible metal	425.70	511.11	A-3012-2	3 + 1 gnd #6,#8, 600 V, RHH/RHW insulation
			conduit			Pull rope	Soft-Fiber Polyester
						A-3013-2	3 + 1 gnd #6,#8, 600 V, RHH/RHW insulation
3155	E-229	41	Liquidtight flexible metal	425.70	511.11	A-3013-2	3 + 1 gnd #6,#8, 600 V, RHH/RHW insulation
			conduit			Pull rope	Soft-Fiber Polyester
						A-3012-2	3 + 1 gnd #6,#8, 600 V, RHH/RHW insulation
3156	E-229	41	Liquidtight flexible metal	425.70	511.11	A-3013-2	3 + 1 gnd #6,#8, 600 V, RHH/RHW insulation
			conduit			A-3012-2	3 + 1 gnd #6,#8, 600 V, RHH/RHW insulation
						Pull rope	Soft-Fiber Polyester
3157	E-229	41	Liquidtight flexible metal	425.70	511.11	A-3013-2	3 + 1 gnd #6,#8, 600 V, RHH/RHW insulation
			conduit			Pull rope	Soft-Fiber Polyester
						A-3012-2	3 + 1 gnd #6,#8, 600 V, RHH/RHW insulation
3158	E-229	41	Liquidtight flexible metal	425.70	511.11	Pull rope	Soft-Fiber Polyester
			conduit			A-3013-2	3 + 1 gnd #6,#8, 600 V, RHH/RHW insulation
						A-3012-2	3 + 1 gnd #6,#8, 600 V, RHH/RHW insulation
3159	E-229	41	Liquidtight flexible metal	425.70	511.11	Pull rope	Soft-Fiber Polyester
			conduit			A-3013-2	3 + 1 gnd #6,#8, 600 V, RHH/RHW insulation
						A-3012-2	3 + 1 gnd #6,#8, 600 V, RHH/RHW insulation
3160	E-229	41	Liquidtight flexible metal	425.70	511.11	A-3012-2	3 + 1 gnd #6,#8, 600 V, RHH/RHW insulation
			conduit			A-3013-2	3 + 1 gnd #6,#8, 600 V, RHH/RHW insulation
						Pull rope	Soft-Fiber Polyester
3161	E-229	41	Liquidtight flexible metal	425.70	511.11	A-3012-2	3 + 1 gnd #6,#8, 600 V, RHH/RHW insulation
			conduit			A-3013-2	3 + 1 gnd #6,#8, 600 V, RHH/RHW insulation
						Pull rope	Soft-Fiber Polyester
3162	E-229	41	Liquidtight flexible metal	425.70	511.11	A-3012-2	3 + 1 gnd #6,#8, 600 V, RHH/RHW insulation
			conduit			A-3013-2	3 + 1 gnd #6,#8, 600 V, RHH/RHW insulation
						Pull rope	Soft-Fiber Polyester

For continuation, see next sheet.

CONDUIT AND TRAY SCHEDULE

E-423

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

CALCULATED/DESIGNED BY — CHECKED BY

DESIGN OVERSIGHT — BEHZAD GOLEMOHAMMADI

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Caltrans

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

DGN FILE =>04-0120f1_0378R04.dgn
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CU 04251 | EA 0120F1

LAST REVISION 03-02-12
DATE PLOTTED => 5/24/2012
TIME PLOTTED => 1:34:57 PM