DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SF	80	13.2/13.9	374 R1	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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Caltrans Metric

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

FOR REVISION ONLY

REQUEST FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
1	03/04/08	BARRIER MODIFICATIONS	JS BM	RG SE	44

REVISIONS

CONTRACT CHANGE ORDER NO._____
SHEET_____ OF _____

CONDUIT DATA

Conduit No	Reference	Size	Type	Total Fill (mm²)	Allowable Fill (mm²)	Included Cable No.	Conductor Type
2T27	E-118, E-184	610	152.4 mm siderail ladder tray	2157.86	18064.48	LP222-6,8	1-3/C + gnd #6,600 V, EPR insulation
						2098	1-3/C + gnd #2,600 V, EPR insulation
						2106	1-3/C + gnd #2,600 V, EPR insulation
						UP207-8	1-2/C + gnd #8,600 V, EPR insulation
						UP207-7	1-2/C + gnd #8,600 V, EPR insulation
						Pull rope	Soft-Fiber Polyester
						LP222-2,4	1-3/C + gnd #6,600 V, EPR insulation
2T28	E-119, E-185	610	152.4 mm siderail ladder tray	3847.88	18064.48	UP208-4	1-2/C + gnd #8,600 V, EPR insulation
						UP208-6	1-2/C + gnd #8,600 V, EPR insulation
						Pull rope	Soft-Fiber Polyester
						LP223-2,4	1-3/C + gnd #6,600 V, EPR insulation
						UP208-2	1-2/C + gnd #8,600 V, EPR insulation
						UP208-7	1-2/C + gnd #8,600 V, EPR insulation
						2107	1-3/C + gnd #2,600 V, EPR insulation
						LP223-6,8	1-3/C + gnd #6,600 V, EPR insulation
						2201-5	1-3/C #14,600 V, EPR insulation
						UP208-8	1-2/C + gnd #8,600 V, EPR insulation
						1118-1	1-3/C #14,600 V, EPR insulation
						2201-6	1-2/C + gnd #8,600 V, EPR insulation
						S-3056-9	1-4/C #14,600 V, EPR insulation
						2099	1-3/C + gnd #2,600 V, EPR insulation
						1118-2	1-3/C #16,600 V, EPR insulation
						2201-3	1-3/C #14,600 V, EPR insulation
						2201-2	1-2/C + gnd #8,600 V, EPR insulation
						2201-4	1-9/C #16,600 V, EPR insulation
2T29	E-212, E-21	610	152.4 mm siderail ladder tray	16623.79	18064.48	2123-3	1-3/C + gnd #2/0,600 V, EPR insulation
						Pull rope	Soft-Fiber Polyester
						2119-A	1-3/C + gnd 250 kcmil,600 V, EPR insulation
						2121	1-3/C + gnd #1/0,600 V, EPR insulation
						A-3004-1	1-3/C + gnd #2,600 V, EPR insulation
						A-3003-1	1-3/C + gnd #4,600 V, EPR insulation
						A-2012-1	1-3/C + gnd #2,600 V, EPR insulation
						2123	1-3/C + gnd #2,600 V, EPR insulation
						2105	1-3/C + gnd #2,600 V, EPR insulation
						2104	1-3/C + gnd #2,600 V, EPR insulation
						2125	1-3/C + gnd 250 kcmil,600 V, EPR insulation
						2123-2	1-3/C + gnd #2/0,600 V, EPR insulation
						2106	1-3/C + gnd #2,600 V, EPR insulation
						1118	1-3/C + gnd #2/0,600 V, EPR insulation
						2095	1-3/C + gnd #2,600 V, EPR insulation
						2096	1-3/C + gnd #2,600 V, EPR insulation
						2097	1-3/C + gnd #2,600 V, EPR insulation
						2098	1-3/C + gnd #2,600 V, EPR insulation
						2099	1-3/C + gnd #2,600 V, EPR insulation
						2103	1-3/C + gnd #2,600 V, EPR insulation
						2107	1-3/C + gnd #2,600 V, EPR insulation
						A-3041-1	1-3/C + gnd #2,600 V, EPR insulation
						S-3053-1	1-3/C + gnd #2,600 V, EPR insulation
						S-3052-1	1-3/C + gnd #2,600 V, EPR insulation
						2120	1-3/C + gnd #1/0,600 V, EPR insulation
						A-2013-1	1-3/C + gnd #2,600 V, EPR insulation
2T33	E-181 Thru E-186	760	152.4 mm siderail ladder tray	18689.05 1	22580.60	A-2011-1	1-3/C + gnd #2,600 V, EPR insulation 1
						UP208-4	1-2/C + gnd #8,600 V, EPR insulation
						UP208-6	1-2/C + gnd #8,600 V, EPR insulation 1
						Pull rope	Soft-Fiber Polyester
						LP219-2,4	1-3/C + gnd #6,600 V, EPR insulation
						LP219-6,8	1-3/C + gnd #6,600 V, EPR insulation
						LP220-2,4	1-3/C + gnd #6,600 V, EPR insulation
						LP220-6,8	1-3/C + gnd #6,600 V, EPR insulation
						LP221-2,4	1-3/C + gnd #6,600 V, EPR insulation
						UP205-6	1-2/C + gnd #8,600 V, EPR insulation
						A-3057-1	1-3/C + gnd #2,600 V, EPR insulation
						A-2014-1	1-3/C + gnd #2,600 V, EPR insulation 1
						UP204-8	1-2/C + gnd #8,600 V, EPR insulation
						UP205-8	1-2/C + gnd #8,600 V, EPR insulation
						UP207-8	1-2/C + gnd #8,600 V, EPR insulation
						UP205-1	1-2/C + gnd #10,600 V, EPR insulation
						UP207-7	1-2/C + gnd #8,600 V, EPR insulation
						A-3039-3	1-3/C + gnd #6,600 V, EPR insulation
						A-3040-3	1-3/C + gnd #6,600 V, EPR insulation
						A-3005-1	1-3/C + gnd #2,600 V, EPR insulation
						A-3006-1	1-3/C + gnd #4,600 V, EPR insulation
						A-3031-1	1-3/C + gnd #4,600 V, EPR insulation

CONDUIT DATA

Conduit No	Reference	Size	Type	Total Fill (mm²)	Allowable Fill (mm²)	Included Cable No.	Conductor Type
						A-3032-1	1-3/C + gnd #4,600 V, EPR insulation
						A-3039-1	1-3/C + gnd #2,600 V, EPR insulation
						A-3040-1	1-3/C + gnd #2,600 V, EPR insulation
						LP221-6,8	1-3/C + gnd #6,600 V, EPR insulation
						UP204-1	1-2/C + gnd #10,600 V, EPR insulation
						UP206-8	1-2/C + gnd #8,600 V, EPR insulation
						S-2032-1	1-3/C + gnd #4,600 V, EPR insulation
						A-3036-1	1-3/C + gnd #4,600 V, EPR insulation
						A-2035-1	1-3/C + gnd #6,600 V, EPR insulation
						A-2035-3	1-3/C + gnd #6,600 V, EPR insulation
						UP205-7	1-2/C + gnd #8,600 V, EPR insulation
						UP206-7	1-2/C + gnd #8,600 V, EPR insulation
						LP223-2,4	1-3/C + gnd #6,600 V, EPR insulation
						LP222-6,8	1-3/C + gnd #6,600 V, EPR insulation
						A-3035-1	1-3/C + gnd #4,600 V, EPR insulation
						A-3034-1	1-3/C + gnd #2,600 V, EPR insulation
						UP208-2	1-2/C + gnd #8,600 V, EPR insulation
						UP207-1	1-2/C + gnd #10,600 V, EPR insulation
						S-2031-1	1-3/C + gnd #2,600 V, EPR insulation
						UP206-1	1-2/C + gnd #10,600 V, EPR insulation
						1118-1	1-3/C #14,600 V, EPR insulation
						1118-2	1-3/C #16,600 V, EPR insulation
						1201-2	1-2/C + gnd #8,600 V, EPR insulation
						LP223-6,8	1-3/C + gnd #6,600 V, EPR insulation
						UP208-7	1-2/C + gnd #8,600 V, EPR insulation
						LP222-2,4	1-3/C + gnd #6,600 V, EPR insulation
						1201-6	1-2/C + gnd #8,600 V, EPR insulation
						A-3043-1	1-3/C + gnd #2,600 V, EPR insulation
						A-3042-1	1-3/C + gnd #2,600 V, EPR insulation
						2119-B	1-3/C + gnd 250 kcmil,600 V, EPR insulation 1
						A-3033-1	1-3/C + gnd #2,600 V, EPR insulation
						UP208-8	1-2/C + gnd #8,600 V, EPR insulation
2T39	E-212, E-21	610	152.4 mm siderail ladder tray	9889.17	18064.48	A-3032-1	1-3/C + gnd #4,600 V, EPR insulation
						2119-B	1-3/C + gnd 250 kcmil,600 V, EPR insulation
						A-2035-1	1-3/C + gnd #6,600 V, EPR insulation
						S-2032-1	1-3/C + gnd #4,600 V, EPR insulation
						S-2031-1	1-3/C + gnd #2,600 V, EPR insulation
						A-3036-1	1-3/C + gnd #4,600 V, EPR insulation
						A-3035-1	1-3/C + gnd #4,600 V, EPR insulation
						A-3034-1	1-3/C + gnd #2,600 V, EPR insulation
						A-3033-1	1-3/C + gnd #2,600 V, EPR insulation
						Pull rope	Soft-Fiber Polyester
						A-3039-1	1-3/C + gnd #2,600 V, EPR insulation
						A-3042-1	1-3/C + gnd #2,600 V, EPR insulation
						A-3031-1	1-3/C + gnd #4,600 V, EPR insulation
						A-3006-1	1-3/C + gnd #4,600 V, EPR insulation
						A-3005-1	1-3/C + gnd #2,600 V, EPR insulation
						A-2014-1	1-3/C + gnd #2,600 V, EPR insulation
						A-2011-1	1-3/C + gnd #2,600 V, EPR insulation
						A-3057-1	1-3/C + gnd #2,600 V, EPR insulation
						A-3043-1	1-3/C + gnd #2,600 V, EPR insulation
						A-3040-1	1-3/C + gnd #2,600 V, EPR insulation

For continuation, see next sheet.

CONDUIT AND TRAY SCHEDULE

E-419

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 => 4/18/2008
TIME PLOTTED => 1:35:40 PM