DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SF	80	13.2/13.9	396R1	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

REQUEST FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
1	02/19/08	ELECTRICAL MODIFICATIONS	MP EL	RR	42

REVISIONS

CONTRACT CHANGE ORDER NO. _____
SHEET _____ OF _____

REGISTERED PROFESSIONAL ENGINEER MAXWELL FUMIO TAKATA No. E 8651 Exp. 9/30/2008 ELECTRICAL STATE OF CALIFORNIA

FOR REVISION ONLY

CONDUIT DATA

Conduit No	Reference	Size	Type	Total Fill (mm²)	Allowable Fill (mm²)	Included Cable No.	Conductor Type
5251	E-116	78	RGS-PVC coated conduit	0.00	1935.24	Pull rope	Soft-Fiber Polyester
5261	E-117	78	RGS conduit	648.58	1935.24	LP222-2,4	1-3/C + gnd #6, 600 V, EPR insulation
						Pull rope	Soft-Fiber Polyester
						LP222-6,8	1-3/C + gnd #6, 600 V, EPR insulation
5262	E-117	78	RGS conduit	0.00	1935.24	Pull rope	Soft-Fiber Polyester
5263	E-117	78	RGS conduit	1108.98	1935.24	UP207-7	1-2/C + gnd #8, 600 V, EPR insulation
						2098	1-3/C + gnd #2, 600 V, EPR insulation
						UP207-1	1-2/C + gnd #10, 600 V, EPR insulation
						Pull rope	Soft-Fiber Polyester
						UP207-8	1-2/C + gnd #8, 600 V, EPR insulation
5264	E-117	78	RGS conduit	0.00	1935.24	Pull rope	Soft-Fiber Polyester
5265	E-117	78	RGS conduit	527.18	1935.24	Pull rope	Soft-Fiber Polyester
						2106	1-3/C + gnd #2, 600 V, EPR insulation
5266	E-117	78	RGS conduit	0.00	1935.24	Pull rope	Soft-Fiber Polyester
5267	E-117	78	RGS conduit	1201.71	1935.24	Pull rope	Soft-Fiber Polyester
						1474-8	50 pair #18, shielded pairs, IS/OS shield 600 V, XLPE insul., PVC jacket
5269	E-117	78	RGS-PVC coated conduit	30.19	1935.24	2475-3C	12 Fiber, single mode fiberoptic cable
						Pull rope	Soft-Fiber Polyester
5270	E-117	78	RGS-PVC coated conduit	1201.71	1935.24	Pull rope	Soft-Fiber Polyester
						1473-7	50 pair #18, shielded pairs, IS/OS shield 600 V, XLPE insul., PVC jacket
5271	E-117	78	RGS-PVC coated conduit	1201.71	1935.24	Pull rope	Soft-Fiber Polyester
						1474-7	50 pair #18, shielded pairs, IS/OS shield 600 V, XLPE insul., PVC jacket
5272	E-117	78	RGS-PVC coated conduit	1201.71	1935.24	1473-8	50 pair #18, shielded pairs, IS/OS shield 600 V, XLPE insul., PVC jacket
						Pull rope	Soft-Fiber Polyester
5273	E-117	78	RGS-PVC coated conduit	0.00	1935.24	Pull rope	Soft-Fiber Polyester
5274	E-117	78	RGS-PVC coated conduit	150.44	1935.24	MVDSE03A	MVDS DLC
						Pull rope	Soft-Fiber Polyester
5275	E-118	78	RGS-PVC coated conduit	1201.71	1935.24	2474-10	50 pair #18, shielded pairs, IS/OS shield 600 V, XLPE insul., PVC jacket
						Pull rope	Soft-Fiber Polyester
5276	E-118	78	RGS-PVC coated conduit	0.00	1935.24	Pull rope	Soft-Fiber Polyester
5277	E-118	78	RGS-PVC coated conduit	1201.71	1935.24	1473-8	50 pair #18, shielded pairs, IS/OS shield 600 V, XLPE insul., PVC jacket
5281	E-118	78	RGS conduit	307.37	1935.24	2210-5	1-3/C #14, 600 V, EPR insulation
						Pull rope	Soft-Fiber Polyester
						2201-3	1-3/C #14, 600 V, EPR insulation
						2201-4	1-9/C #16, 600 V, EPR insulation
5282	E-118	78	RGS conduit	98.10	1935.24	S-3056-9	1-4/C #14, 600 V, EPR insulation
						Pull rope	Soft-Fiber Polyester
5283	E-118	78	RGS conduit	1630.68	1935.24	UP208-8	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
						LP223-6,8	1-3/C + gnd #6, 600 V, EPR insulation
						UP208-7	1-2/C + gnd #8, 600 V, EPR insulation
						2099	1-3/C + gnd #2, 600 V, EPR insulation
5284	E-118	78	RGS conduit	682.38	1935.24	UP208-2	1-2/C + gnd #8, 600 V, EPR insulation
						Pull rope	Soft-Fiber Polyester
						UP208-4	1-2/C + gnd #8, 600 V, EPR insulation
						UP208-6	1-2/C + gnd #8, 600 V, EPR insulation
5285	E-118	78	RGS conduit	527.18	1935.24	2107	1-3/C + gnd #2, 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
5286	E-118	78	RGS conduit	1496.01	1935.24	2154	1 - 2 pair, shielded #18 with IS/OA, 300 V, PVC jacket
						2152	1 - 2 pair, shielded #18 with IS/OA, 300 V, PVC jacket
						2153	1 - 2 pair, shielded #18 with IS/OA, 300 V, PVC jacket
						1474-10	50 pair #18, shielded pairs, IS/OS shield 600 V, XLPE insul., PVC jacket
						Pull rope	Soft-Fiber Polyester
5287	E-118	78	RGS conduit	0.00	1935.24	Pull rope	Soft-Fiber Polyester
5289	E-118	78	RGS-PVC coated conduit	1201.71	1935.24	Pull rope	Soft-Fiber Polyester
						1473-10	50 pair #18, shielded pairs, IS/OS shield 600 V, XLPE insul., PVC jacket
5290	E-118	78	RGS-PVC coated conduit	1519.51	1935.24	1474-8A	1 - 6 pair, shielded #18 with overall shield, 300 V, PVC jacket
						1474-8B	1 - 6 pair, shielded #18 with overall shield, 300 V, PVC jacket
						1474-8	50 pair #18, shielded pairs, IS/OS shield 600 V, XLPE insul., PVC jacket
						Pull rope	Soft-Fiber Polyester
5299	E-182	41	RGS conduit	425.70	534.55	A-3032-2	3 + 1 gnd #6,#8, 600 V, RHH/RHW insulation
						A-3033-2	3 + 1 gnd #6,#8, 600 V, RHH/RHW insulation
5301	E-181	41	RGS conduit	0.00	534.55	Pull rope	Soft-Fiber Polyester
5302	E-181	41	RGS conduit	0.00	534.55	Pull rope	Soft-Fiber Polyester
5303	E-181	53	RGS conduit	648.58	879.42	A-3040-3	1-3/C + gnd #6, 600 V, EPR insulation
						Pull rope	Soft-Fiber Polyester
						A-3039-3	1-3/C + gnd #6, 600 V, EPR insulation
5304	E-181	53	RGS conduit	0.00	879.42	Pull rope	Soft-Fiber Polyester
5305	E-181	41	RGS conduit	212.85	534.55	Pull rope	Soft-Fiber Polyester
						LP219-2,4A	3 + 1 gnd #6,#8, 600 V, RHH/RHW insulation
5306	E-181	41	RGS conduit	440.31	534.55	UP205-6	1-2/C + gnd #8, 600 V, EPR insulation
						Pull rope	Soft-Fiber Polyester
						LP219-6,8A	3 + 1 gnd #6,#8, 600 V, RHH/RHW insulation
5307	E-181	53	RGS conduit	324.29	879.42	LP219-2,4	1-3/C + gnd #6, 600 V, EPR insulation
						Pull rope	Soft-Fiber Polyester
5308	E-181	53	RGS conduit	551.75	879.42	UP205-6	1-2/C + gnd #8, 600 V, EPR insulation
						Pull rope	Soft-Fiber Polyester
						LP219-6,8	1-3/C + gnd #6, 600 V, EPR insulation
5309	E-181	53	RGS conduit	98.10	879.42	Pull rope	Soft-Fiber Polyester
						2155	1 - 2 pair, shielded #18 with IS/OA, 300 V, PVC jacket
5310	E-181	53	RGS conduit	0.00	879.42	Pull rope	Soft-Fiber Polyester
5311	E-181	41	RGS conduit	126.88 1	534.55	S-2031-2	3 + 1 gnd #6,#8, 600 V, RHH/RHW insulation
						Pull rope	Soft-Fiber Polyester
						UP204-1	1-2/C + gnd #10, 600 V, EPR insulation

For continuation, see next sheet.

CONDUIT AND TRAY SCHEDULE

E-441

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

DESIGN OVERSIGHT
BEHZAD GOLEMOHAMMADI

CALCULATED/ DESIGNED BY	DATE 8/02	REVISED BY	DATE REVISED
CHECKED BY	AB		

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

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