DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SF	80	13.2/13.9	407R1	1204

MARK	DATE	DESCRIPTIONS	BY	CK	CCO
1	8-06-07	Electrical modifications.	MP EL	RR	42

REVISIONS

CONTRACT CHANGE ORDER NO. 42
SHEET ____ OF ____

FOR REVISION ONLY

Caltrans Metric

12/19/02
REGISTERED ELECTRICAL ENGINEER 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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REGISTERED PROFESSIONAL ENGINEER MAXWELL FUMIO TAKATA No. E 8651 Exp. 9/30/2008 ELECTRICAL STATE OF CALIFORNIA

CONDUIT DATA

Conduit No	Reference	Size	Type	Total Fill (mm2)	Allowable Fill (mm2)	Included Cable No.	Conductor Type
3177A	E-264A	78	Liquidtight flex metal conduit	1853.73	1928.98	2119-B	3+1gnd, #250 kcmil, #1/0, 600V, EPR insulation
						2204-2	1-3/C #16, 600V, EPR Insulation
						1201-2	1-2/C + gnd #8, 600V, EPR Insulation
						A-3057-1	1-3/C + gnd #2, 600V, EPR Insulation
3177B	E-264A, E-182	78	RGS - PVC coated conduit	1853.73	1935.24	2119-B	3+1gnd, #250 kcmil, #1/0, 600V, EPR insulation
						2204-2	1-3/C #16, 600V, EPR Insulation
						1201-2	1-2/C + gnd #8, 600V, EPR Insulation
						A-3057-1	1-3/C + gnd #2, 600V, EPR Insulation
3278A	E-264A	78	Liquidtight flex metal conduit	1827.85	1928.98	2123-2	1-3/C + gnd #2/0, 600V, EPR Insulation
						2123-3	1-3/C + gnd #2/0, 600V, EPR Insulation
						2910-11	1-3/C #16, 600V, EPR Insulation
3278B	E-264A, E-182	78	RGS - PVC coated conduit	1827.85	1953.24	2123-2	1-3/C + gnd #2/0, 600V, EPR Insulation
						2123-3	1-3/C + gnd #2/0, 600V, EPR Insulation
						2910-11	1-3/C #16, 600V, EPR Insulation
3294A	E-264A	78	Liquidtight flex metal conduit		1928.98	Pull rope	Soft-fiber polyester
3294B	E-264A, E-182	78	RGS - PVC coated conduit		1935.24	Pull rope	Soft-fiber polyester
1 3294C	E-287	41					
3319A	E-264A	78	Liquidtight flex metal conduit	1849.08	1928.98	2121	1-3/C + gnd #1/0, 600V, EPR Insulation
						2121-1	1-3/C #14, 600V, EPR Insulation
						2120	1-3/C + gnd #1/0, 600V, EPR Insulation
						2121-2	1-3/C #14, 600V, EPR Insulation
						2120-1	1-3/C #14, 600V, EPR Insulation
						2120-2	1-3/C #14, 600V, EPR Insulation
3319B	E-264A, E-182	78	RGS - PVC coated conduit	1849.08	1935.24	2121	1-3/C + gnd #1/0, 600V, EPR Insulation
						2121-1	1-3/C #14, 600V, EPR Insulation
						2120	1-3/C + gnd #1/0, 600V, EPR Insulation
						2121-2	1-3/C #14, 600V, EPR Insulation
						2120-1	1-3/C #14, 600V, EPR Insulation
						2120-2	1-3/C #14, 600V, EPR Insulation
3322A	E-264A	78	Liquidtight flex metal conduit	1853.73	1928.98	2119-A	3+1gnd, #250 kcmil, #1/0, 600V, EPR insulation
						2123	1-3/C + gnd #2, 600V, EPR Insulation
						1201-1	1-2/C + gnd #8, 600V, EPR Insulation
						2204-1	1-3/C #16, 600V, EPR Insulation
3322B	E-264A, E-182	78	RGS - PVC coated conduit	1853.73	1935.24	2119-A	3+1gnd, #250 kcmil, #1/0, 600V, EPR insulation
						2123	1-3/C + gnd #2, 600V, EPR Insulation
						1201-1	1-2/C + gnd #8, 600V, EPR Insulation
						2204-1	1-3/C #16, 600V, EPR Insulation
3330A	E-264A	78	Liquidtight flex metal conduit	552.33	1928.98	CCTVE01BA	TVP
						CCTVE01BB	TVCP
						CCTVE01AA	TVP
						CCTVE01AB	TVCP
						GND	1-#250 kcmil, bare copper
3330B	E-264A, E-182	78	RGS - PVC coated conduit	552.33	1935.24	CCTVE01BA	TVP
						CCTVE01BB	TVCP
						CCTVE01AA	TVP
						CCTVE01AB	TVCP
						GND	1-#250 kcmil, bare copper
3339A	E-264A	78	Liquidtight flex metal conduit	1432.01	1928.98	2125	3+1gnd, #250 kcmil, #1/0, 600V, EPR insulation
						1201-6	1-2/C + gnd #8, 600V, EPR Insulation
						GND	1-#250 kcmil, bare copper

CONDUIT DATA

Conduit No	Reference	Size	Type	Total Fill (mm2)	Allowable Fill (mm2)	Included Cable No.	Conductor Type
3339B	E-264A, E-182	78	RGS - PVC coated conduit	1432.01	1935.24	2125	3+1gnd, #250 kcmil, #1/0, 600V, EPR insulation
						1201-6	1-2/C + gnd #8, 600V, EPR Insulation
						GND	1-#250 kcmil, bare copper
3348A	E-264A	78	Liquidtight flex metal conduit		1928.98	Pull rope	Soft-fiber polyester
3348B	E-264A, E-182	78	RGS - PVC coated conduit		1935.24	Pull rope	Soft-fiber polyester
3349A	E-264A	78	Liquidtight flex metal conduit		1928.98	Pull rope	Soft-fiber polyester
3349B	E-264A, E-182	78	RGS - PVC coated conduit		1935.24	Pull rope	Soft-fiber polyester
3359A	E-264A	78	Liquidtight flex metal conduit	648.52	1928.98	CCTVE01AC	TVC
						CCTVE01AD	TVL
						MVDSE02A	MVDS DLC
						MVDSE03A	MVDS DLC
						CCTVE01BC	TVC
						CCTVE01BD	TVL
3359B	E-264A, E-182	78	RGS - PVC coated conduit	648.52	1935.24	CCTVE01AC	TVC
						CCTVE01AD	TVL
						MVDSE02A	MVDS DLC
						MVDSE03A	MVDS DLC
						CCTVE01BC	TVC
						CCTVE01BD	TVL
8011A	E-264A	78	Liquidtight flex metal conduit		1928.98	Pull rope	Soft-fiber polyester
8011B	E-264A, E-182	78	RGS - PVC coated conduit		1935.24	Pull rope	Soft-fiber polyester
9057A	E-264A	78	Liquidtight flex metal conduit	442.35	1928.98	2910-12	4 pair #22, shielded pairs, 300V, PE insulation
						2910-8	4 pair #22, shielded pairs, 300V, PE insulation
						2910-7	4 pair #24, overall shielded, 300V, PE insulation
						2119-2	4 pair #22, shielded pairs, 300V, PE insulation
9057B	E-264A, E-182	78	RGS - PVC coated conduit	442.35	1935.24	2910-12	4 pair #22, shielded pairs, 300V, PE insulation
						2910-8	4 pair #22, shielded pairs, 300V, PE insulation
						2910-7	4 pair #24, overall shielded, 300V, PE insulation
						2119-2	4 pair #22, shielded pairs, 300V, PE insulation
9057C	E-264A, E-366	21	RGS - PVC coated conduit	62.07	187.69	2910-11	1-3/C #16, 600V, EPR Insulation

CONDUIT AND TRAY SCHEDULE

E-449C

CALCULATED/DESIGNED BY	EJL	DATE 3/04
CHECKED BY	JE	REVISED BY
		DATE REVISED

DESIGN OVERSIGHT
BEHZAD GOLEMOHAMMADI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00
DATE PLOTTED => 12/19/2007
TIME PLOTTED => $TIME

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

DGN FILE =>t:\13103\ms\pse\sas struc\cco\sas cco42\04-0120f1_0407r01.dgn
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CU 04251

EA 0120F1