| DIST | COUNTY | ROUTE | KILOMETER POST TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | SF | 80 | 13.2/13.9 | 397 R2 | 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# |
|---|---|---|---|---|---|
| 2 | 03/04/08 | BARRIER MODIFICATIONS | JS BM | RG SE | 44 |
| 1 | 02/19/08 | ELECTRICAL MODIFICATIONS | MP EL | RR | 42 |

REVISIONS

CONTRACT CHANGE ORDER NO._____
SHEET_____ OF _____

FOR REVISION ONLY

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

## CONDUIT DATA

| Conduit No | Reference | Size | Type | Total Fill (mm²) | Allowable Fill (mm²) | Included Cable No. | Conductor Type |
|---|---|---|---|---|---|---|---|
| 5312 | E-181 | 41 | RGS conduit | 0.00 | 534.55 | A-2035-2 | 3 + 1 gnd #6,#8, 600 V, RHH/RHW insulation |
| | | | | | | Pull rope | Soft-Fiber Polyester |
| 5313 | E-181 | 78 | RGS conduit | 654.06 | 1935.24 | S-2031-3 | 1-3/C + gnd #4, 600 V, EPR insulation |
| | | | | | | UP204-1 | 1-2/C + gnd #10, 600 V, EPR insulation |
| | | | | | | S-2031-1 | 1-3/C + gnd #2, 600 V, EPR insulation |
| | | | | | | Pull rope | Soft-Fiber Polyester |
| 5314 | E-181 | 53 | RGS conduit | 648.58 | 879.42 | A-2035-1 | 1-3/C + gnd #6, 600 V, EPR insulation |
| | | | | | | A-2035-3 | 1-3/C + gnd #6, 600 V, EPR insulation |
| | | | | | | Pull rope | Soft-Fiber Polyester |
| 5315 | E-181 | 53 | RGS conduit | 0.00 | 879.42 | Pull rope | Soft-Fiber Polyester |
| 5316 | E-181 | 53 | RGS conduit | 0.00 | 879.42 | Pull rope | Soft-Fiber Polyester |
| 5317 | E-181 | 78 | RGS conduit | 527.18 | 1935.24 | A-2011-1 | 1-3/C + gnd #2, 600 V, EPR insulation |
| | | | | | | Pull rope | Soft-Fiber Polyester |
| 5320 | E-185 | 78 | RGS conduit | 0.00 | 1935.24 | Pull rope | Soft-Fiber Polyester |
| 5321 | E-181 | 41 | RGS conduit | 0.00 | 534.55 | Pull rope | Soft-Fiber Polyester |
| 5322 | E-181 | 41 | RGS conduit | 0.00 | 534.55 | Pull rope | Soft-Fiber Polyester |
| 5323 | E-181 | 53 | RGS conduit | 0.00 | 879.42 | Pull rope | Soft-Fiber Polyester |
| 5324 | E-181 | 53 | RGS conduit | 0.00 | 879.42 | Pull rope | Soft-Fiber Polyester |
| 5325 | E-181 | 53 | RGS conduit | 0.00 | 879.42 | Pull rope | Soft-Fiber Polyester |
| 5326 | E-181 | 53 | RGS conduit | 0.00 | 879.42 | Pull rope | Soft-Fiber Polyester |
| 5333 | E-182 | 41 | RGS conduit | 212.85 | 534.55 | Pull rope | Soft-Fiber Polyester |
| | | | | | | LP220-2,4A | 3 + 1 gnd #6,#8, 600 V, RHH/RHW insulation |
| 5334 | E-182 | 41 | RGS conduit | 0.00 | 534.55 | Pull rope | Soft-Fiber Polyester |
| 5335 | E-182 | 53 | RGS conduit | 324.29 | 879.42 | Pull rope | Soft-Fiber Polyester |
| | | | | | | LP220-2,4 | 1-3/C + gnd #6, 600 V, EPR insulation |
| 5336 | E-182 | 53 | RGS conduit | 0.00 | 879.42 | Pull rope | Soft-Fiber Polyester |
| 5337 | E-182 | 53 | RGS conduit | 0.00 | 879.42 | Pull rope | Soft-Fiber Polyester |
| 5338 | E-182 | 53 | RGS conduit | 0.00 | 879.42 | Pull rope | Soft-Fiber Polyester |
| 5346 | E-185 | 53 | RGS conduit | 366.10 | 879.42 | Pull rope | Soft-Fiber Polyester |
| | | | | | | A-3031-1 | 1-3/C + gnd #4, 600 V, EPR insulation |
| 5347 | E-185 | 53 | RGS conduit | 0.00 | 879.42 | Pull rope | Soft-Fiber Polyester |
| 5348 | E-181 | 41 | RGS conduit | 212.85 | 534.55 | Pull rope | Soft-Fiber Polyester |
| | | | | | | A-3031-2 | 3 + 1 gnd #6,#8, 600 V, RHH/RHW insulation |
| 5349 | E-181 | 41 | RGS conduit | 212.85 | 534.55 | Pull rope | Soft-Fiber Polyester |
| | | | | | | A-2011-2 | 3 + 1 gnd #6,#8, 600 V, RHH/RHW insulation |
| 5350 | E-185 | 53 | RGS conduit | 0.00 | 879.42 | Pull rope | Soft-Fiber Polyester |
| 5351 | E-182 | 41 | RGS conduit | 0.00 | 534.55 | Pull rope | Soft-Fiber Polyester |
| 5352 | E-182 | 41 | RGS conduit | 212.85 | 534.55 | Pull rope | Soft-Fiber Polyester |
| | | | | | | LP220-6,8A | 3 + 1 gnd #6,#8, 600 V, RHH/RHW insulation |
| 5353 | E-182 | 53 | RGS conduit | 0.00 | 879.42 | Pull rope | Soft-Fiber Polyester |
| 5354 | E-182 | 53 | RGS conduit | 324.29 | 879.42 | Pull rope | Soft-Fiber Polyester |
| | | | | | | LP220-6,8 | 1-3/C + gnd #6, 600 V, EPR insulation |
| 5355 | E-182 | 53 | RGS conduit | 0.00 | 879.42 | Pull rope | Soft-Fiber Polyester |
| 5356 | E-182 | 53 | RGS conduit | 0.00 | 879.42 | Pull rope | Soft-Fiber Polyester |
| 5357 | E-182 | 41 | RGS conduit | 212.85 | 534.55 | A-3039-2 | 3 + 1 gnd #6,#8, 600 V, RHH/RHW insulation |
| | | | | | | Pull rope | Soft-Fiber Polyester |
| 5358 | E-182 | 41 | RGS conduit | 0.00 | 534.55 | Pull rope | Soft-Fiber Polyester |
| 5359 | E-182 | 53 | RGS conduit | 851.47 | 879.42 | A-3039-3 | 1-3/C + gnd #6, 600 V, EPR insulation |
| | | | | | | A-3039-1 | 1-3/C + gnd #2, 600 V, EPR insulation |
| | | | | | | Pull rope | Soft-Fiber Polyester |
| 5360 | E-182 | 53 | RGS conduit | 648.58 | 879.42 | Pull rope | Soft-Fiber Polyester |

## CONDUIT DATA

| Conduit No | Reference | Size | Type | Total Fill (mm²) | Allowable Fill (mm²) | Included Cable No. | Conductor Type |
|---|---|---|---|---|---|---|---|
| | | | | | | A-3039-3 | 1-3/C + gnd #6, 600 V, EPR insulation |
| | | | | | | A-3040-3 | 1-3/C + gnd #6, 600 V, EPR insulation |
| 5363 | E-182 | 41 | RGS conduit | 212.85 | 534.55 | A-2012-2 | 3 + 1 gnd #6, #8, 600 V, RHH/RHW insulation |
| | | | | | | Pull rope | Soft-Fiber Polyester |
| 5364 | E-182 | 41 | RGS conduit | 0.00 2 | 534.55 | Pull rope | Soft-Fiber Polyester 2 |
| 5365 | E-182 | 53 | RGS conduit | 0.00 2 | 879.42 | Pull rope | Soft-Fiber Polyester 2 |
| 5366 | E-182 | 53 | RGS conduit | 527.18 | 879.42 | A-2012-1 | 1-3/C + gnd #2, 600 V, EPR insulation |
| | | | | | | Pull rope | Soft-Fiber Polyester |
| 5367 | E-182 | 53 | RGS conduit | 0.00 2 | 879.42 | Pull rope | Soft-Fiber Polyester 2 |
| 5368 | E-182 | 53 | RGS conduit | 0.00 2 | 879.42 | Pull rope | Soft-Fiber Polyester 2 |
| 5369 | E-182 | 53 | RGS conduit | 0.00 | 879.42 | Pull rope | Soft-Fiber Polyester 2 |
| 5370 | E-182 | 53 | RGS conduit | 0.00 2 | 879.42 | Pull rope | Soft-Fiber Polyester |
| 5371 | E-182 | 53 | RGS conduit | 0.00 | 879.42 | Pull rope | Soft-Fiber Polyester 2 |
| 5372 | E-182 | 53 | RGS conduit | 0.00 | 879.42 | Pull rope | Soft-Fiber Polyester |
| 5373 | E-182 | 53 | RGS conduit | 0.00 2 | 879.42 | Pull rope | Soft-Fiber Polyester 2 |
| 5374 | E-182 | 53 | RGS conduit | 0.00 | 879.42 | Pull rope | Soft-Fiber Polyester |
| 5375 | E-182 | 53 | RGS conduit | 0.00 | 879.42 | Pull rope | Soft-Fiber Polyester |
| 5378 | E-185 | 78 | RGS conduit | 0.00 | 1935.24 | Pull rope | Soft-Fiber Polyester |
| 5379 | E-185 | 78 | RGS conduit | 0.00 | 1935.24 | Pull rope | Soft-Fiber Polyester |
| 5380 | E-182 | 53 | RGS conduit | 0.00 | 879.42 | Pull rope | Soft-Fiber Polyester |
| 5381 | E-182 | 41 | RGS conduit | 0.00 | 534.55 | Pull rope | Soft-Fiber Polyester |
| 5382 | E-182 | 41 | RGS conduit | 0.00 | 534.55 | Pull rope | Soft-Fiber Polyester |
| 5383 | E-182 | 78 | RGS conduit | 0.00 | 1935.24 | Pull rope | Soft-Fiber Polyester |
| 5384 | E-182 | 53 | RGS conduit | 0.00 | 879.42 | Pull rope | Soft-Fiber Polyester |
| 5385 | E-182 | 53 | RGS conduit | 0.00 | 879.42 | Pull rope | Soft-Fiber Polyester |
| 5386 | E-182 | 53 | RGS conduit | 0.00 | 879.42 | Pull rope | Soft-Fiber Polyester |
| 5387 | E-182 | 41 | RGS conduit | 212.85 | 534.55 | A-3040-2 | 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-442

| REVISED BY | DATE REVISED |
|---|---|
| PBP | 8/02 |

| CALCULATED/ DESIGNED BY | CHECKED BY |
|---|---|
| AB | |

DESIGN OVERSIGHT
BEHZAD GOLEMOHAMMADI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00
DATE PLOTTED => 4/18/2008
TIME PLOTTED => 1:29:19 PM