DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SF	80	13.2/13.9	282 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 now has a web site! To get to the web site, go to http://www.dot.ca.gov

Caltrans Metric

UTILITY PANEL UP-210-1A (CKT #2123-2) Location: PIER 1 TOWER AT SE SHAFT PLATFORM ELEV 89.00 m 1

LOAD DESCRIPTION	LTG	REC	OTH.	CB			CB	LTG	REC	OTH.	LOAD DESCRIPTION
SE Ltg.Tower Diaphragm (15) @ Elev 89.00 - 143.00 m	2070			30/1	1	A 2	20/1				Spare 1
SE Ltg.Tower Diaphragm (12) @ Elev 53.00 - 89.00 m	1430	1		20/1	3	B 4	20/1		900		Recept. (5) SE Tower Diaphragm @ Elev 53.00 - 89.00 m
SW Ltg.Elect. Dist Equip. @ Elev 89.00 m	143			20/1	5	C 6	20/1		900		Recept. (5) SE Tower Diaphragm @ Elev 89.00 - 143.00 m
Spare 1		1		20/1	7	A 8	20/1				Spare 1
NE Ltg.Tower Diaphragm (12) @ Elev 53.00 - 89.00 m	1430			20/1	9	B 10	20/1		900		Recept. (5) NE Tower Diaphragm @ Elev 53.00 - 89.00 m
NE Ltg.Tower Diaphragm (15) @ Elev 89.00 - 143.00 m	2070	1		30/1	11	C 12	20/1		900		Recept. (5) NE Tower Diaphragm @ Elev 89.00 - 143.00 m
Platform Ltg. (24) @ Elev 154.6 m to 156.75 m	984	1		20/1	13	A 14	20/1		900		Recept. (5) Platform @ Elev 154.6 m to 156.75 m
Spare				20/1	15	B 16	20/1				Spare
				20/1	17	C 18	20/1				
				20/1	19	A 20	20/1				
				20/1	21	B 22	20/1				
				20/1	23	C 24	20/1				
TOTAL VA	8127								4500		TOTAL VA

LOAD SUMMARY (INCLUDES .90 PF) (VA)

Lighting (At 100%): 8127
Gen Use (1st 10 kVA at 100% Plus 50% of remainder): 4500

TOTAL kVA: 12.627

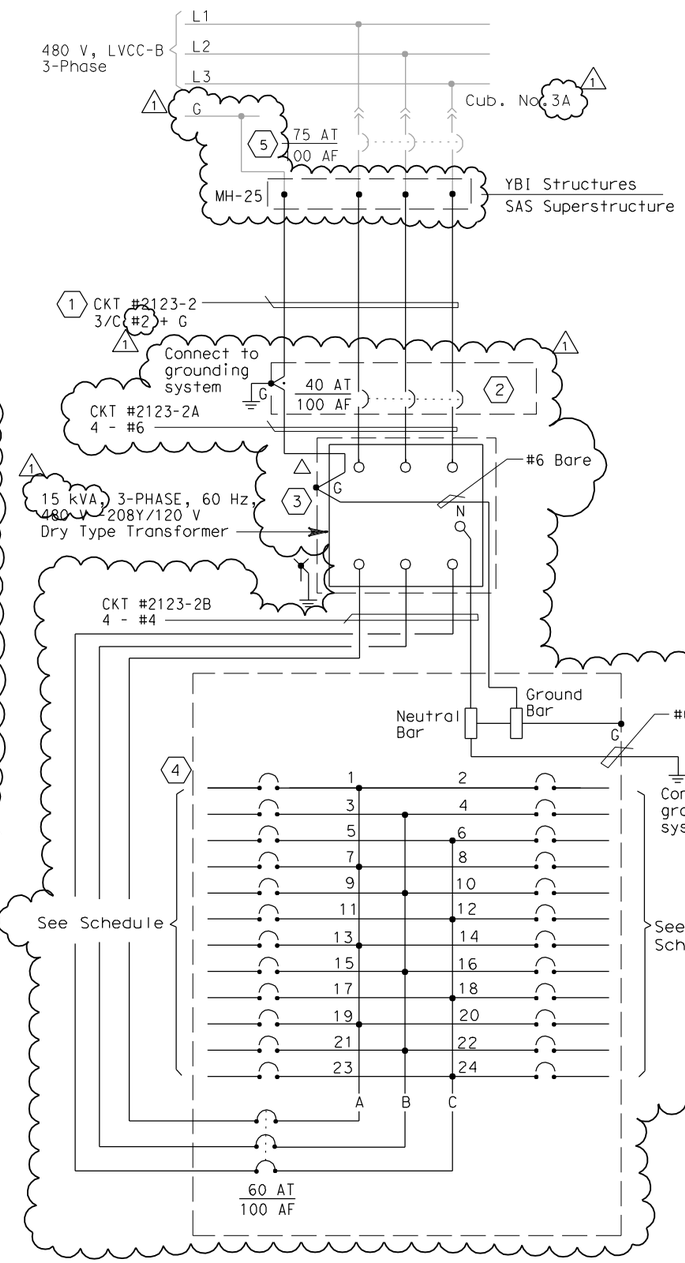
BALANCE (kVA)

Phase A - 3.954
Phase B - 4.660
Phase C - 4.013

VOLTAGE: 208/120 V
PHASE/WIRES: 3-Phase, 4-Wire
BUS RATING: 100 A
MAIN: 100 AF
MOUNTING: Surface
K.A.I.C.: 10

FEEDER ENTRY: BOTTOM LEFT

1



SHEET NOTES:

1. Contractor shall extend and coil 5 meters of cable in Manhole-25. All cables shall be tagged with circuit number as shown. (YBI-1 contract). 1
2. Enclosed type circuit breaker in NEMA type 12 enclosure.
3. Dry type step down transformer with copper winding in NEMA type 12 enclosure.
4. Panelboard w/ 100A copper bus in NEMA type 12 enclosure.
5. As-built feeder circuit breaker rating per YBI Substation contract. Feeder conductor size accomplished by YBI-1 contract.

NOTES:

1. Contractor shall provide nameplates and circuit schedules as shown.
2. Deleted. 1
3. References:
   - For conduit and cable tray schedules, see sheets starting at E-401.
   - For pull box schedule, see sheets E-83 and E-169.
   - For tower diaphragm lighting and receptacle locations, see sheet E-274.
   - For LVCC-B single line diagram, see sheets E-32 through E-35. 1
   - For equipment location and arrangement, see sheets E-285 and E-285A.

REGISTERED PROFESSIONAL ENGINEER FADI WALIEDDINE No. 11465 Exp. 12/31/2009 ELECTRICAL STATE OF CALIFORNIA

FOR REVISION ONLY 1

REQUEST FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
1	09/18/09	TOWER UTILITY PANELS	JS TW	RG FW	70

REVISIONS

CONTRACT CHANGE ORDER NO._____
SHEET_____ OF_____

DETAILS
TOWER AND SUSPENSION CABLE PANEL UP-210-1A SCHEDULE
NO SCALE

E-279

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

DESIGN OVERSIGHT: BEHZAD GOLEMOHAMMADI

CALCULATED/DESIGNED BY: FK | CHECKED BY: EDC | DATE 10/01 | DATE REVISED: 11/01 | REVISED BY

LAST REVISION 00-00-00 | DATE PLOTTED => 12/10/2009 | TIME PLOTTED => 3:33:56 PM

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

DGN FILE =>t:\13103\ms\pse\SAS Struc\CCO\SAS CCO70\2009-12-02 issued for Submittal\04-0120f1_0282R01.dgn
USERNAME =>llorico

CU 04251 | EA 0120F1