DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SF	80	13.2/13.9	283R1	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					
1	09/18/09	TOWER UTILITY PANELS	JS TW	RG FW	70
MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
REVISIONS					

CONTRACT CHANGE ORDER NO._____
SHEET_____ OF_____

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

FOR REVISION ONLY 1

UTILITY PANEL UP-210-1B (CKT #2123-3) Location: PIER 1 TOWER AT SW SHAFT PLATFORM ELEV 89.85 m 1

LOAD DESCRIPTION	LTG	REC	OTH.	CB			CB	LTG	REC	OTH.	LOAD DESCRIPTION
SW Ltg. Tower Diaphragm (15) @ Elev 89.00 - 143.00 m	2070			30/1	1	A 2	20/1		720		Recept. Platform (4) @ Elev 127.00 m 1
SW Ltg. Tower Diaphragm (12) @ Elev 53.00 - 89.00 m	1430		1	20/1	3	B 4	20/1		900		Recept. (5) SW Tower Diaphragm @ Elev 53.00 - 89.00 m
SE Ltg. Elect. Dist. Equip. @ Elev 89.00 m	143			20/1	5	C 6	20/1		900		Recept. (5) SW Tower Diaphragm @ Elev 89.00 - 143.00 m
Platform Ltg. (6) @ Elev 127.00 m	246		1	20/1	7	A 8	20/1				Spare 1
NW Ltg. Tower Diaphragm (12) @ Elev 53.00 - 89.00 m	1430			20/1	9	B 10	20/1		900		Recept. (5) NW Tower Diaphragm @ Elev 53.00 - 89.00 m 1
NW Ltg. Tower Diaphragm (15) @ Elev 89.00 - 143.00 m	2070 1		1	30/1	11	C 12	20/1		900		Recept. (5) NW Tower Diaphragm @ Elev 89.00 - 143.00 m
Platform Ltg. (6) @ Elev 89.85 m	246			20/1	13	A 14	20/1		720		Recept. Platform (4) @ Elev 89.85 m 1
Platform Ltg. (6) @ Elev 139.85 m	246			20/1	15	B 16	20/1		360		Recept. Platform (2) @ Elev 139.85 m
Spare				20/1	17	C 18	20/1				Spare
				20/1	19	A 20	20/1				
				20/1	21	B 22	20/1				
				20/1	23	C 24	20/1				
TOTAL VA	7881								5400		TOTAL VA

LOAD SUMMARY (INCLUDES .90 PF) (VA)

Lighting (At 100%): 7881
Gen Use (1st 10 kVA at 100% Plus 50% of remainder): 5400

TOTAL kVA: 13.281

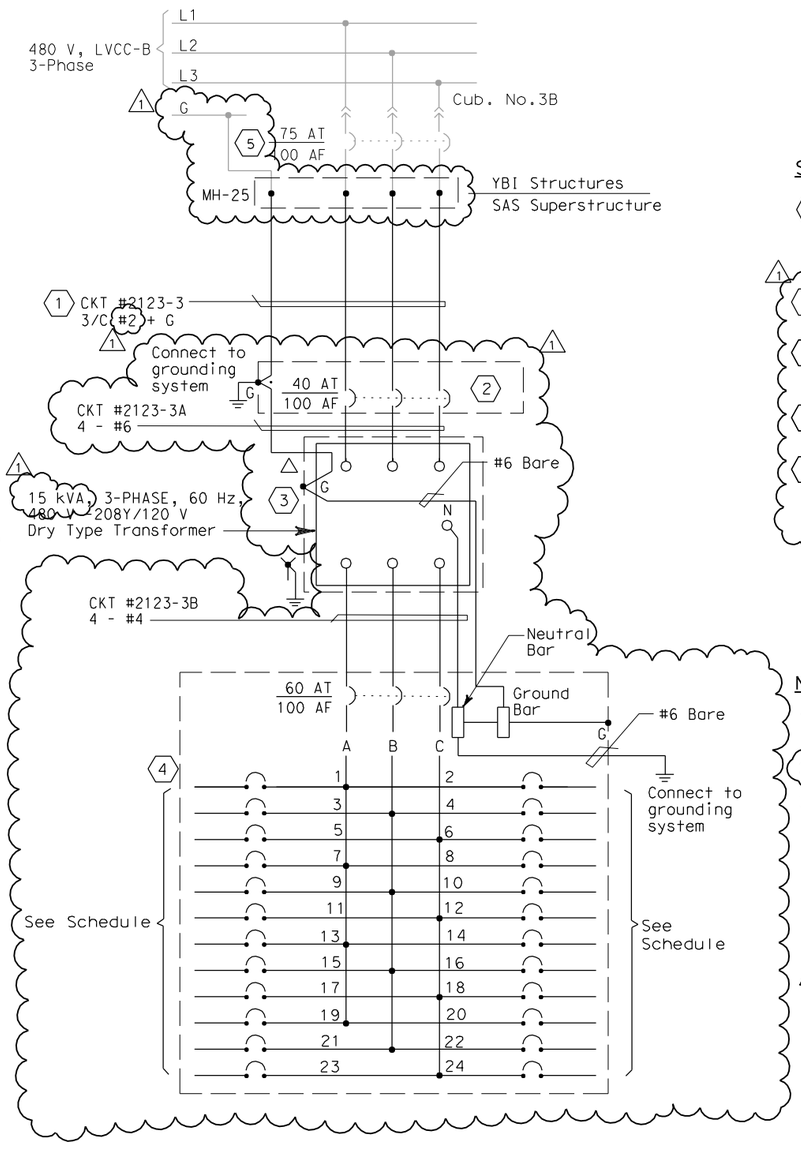
BALANCE (kVA)

Phase A - 4.002
Phase B - 5.266
Phase C - 4.013

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

FEEDER ENTRY: BOTTOM RIGHT

1



SHEET NOTES:

1. The 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).
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.
   - For equipment location and arrangement, see sheets E-285 and E-285A. 1

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

E-280

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

DESIGN OVERSIGHT
BEHZAD GOLEMOHAMMADI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00
DATE PLOTTED => 12/10/2009
TIME PLOTTED => 3:34:13 PM

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

DGN FILE =>t:\13103\ms\pse\SAS Struc\CCO\SAS CC070\2009-12-02 issued for Submittal\04-0120f1_0283R01.dgn
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