

PANEL VEAC-01		LOCATION LVEA RM 105				VOLTS 480Y/277V									
FED FROM	CKT #	MOUNTING RECESSED		MAIN		BUS 225									
CKT	LOAD SERVED	SLOT	POLES	WIRE SIZE	TRIP	VOLT AMPS	PHASE LOAD (VA)	VOLT AMPS	TRIP	WIRE SIZE	POLES	SLOT	LOAD SERVED	CKT	
1	BAKEOUT CLEAN RM VS 1	1	3	6	60	27000	A: 9000/1233, B: 9000/1233, C: 9000/1233	3700	60	6	3	2	MAIN ROUGHING PUMP	2	
7	MAIN TURBO PUMP	7	1	15	400	400/9000		27000	60	6	3	8	C-CC-PD-VEAC-07	8	
13	BAKEOUT CLEAN RM VS 24	13	3	6	60	27000	A: 9000, B: 9000, C: 9000	27000	60	6	3	14	C-CC-PD-VEAC-14	14	
19	BAKEOUT CLEAN RM VS 25	19	3	6	60	30000	A: 10000, B: 10000, C: 10000	30000	50	6	3	20	W-C-CC-T-VEAC-01	20	
25	SPACE	25										26	GATE VALVE	26	
27	SPACE	27										28		28	
29	SPACE	29										30		30	
TOTAL							38633	38233	38233						
TOTAL CONNECTED LOAD (VA)							114699								
(AMPS)							138.0								

PANEL VEAC-04		LOCATION LVEA RM 102				VOLTS 480Y/277V									
FED FROM	CKT #	MOUNTING RECESSED		MAIN		BUS 225									
CKT	LOAD SERVED	SLOT	POLES	WIRE SIZE	TRIP	VOLT AMPS	PHASE LOAD (VA)	VOLT AMPS	TRIP	WIRE SIZE	POLES	SLOT	LOAD SERVED	CKT	
1	B/CR DS 5	1	3	6	60	27000	A: 9000/1233, B: 9000/1233, C: 9000/1233	3700				3	2	W6V * 1	2
7	ROUGHING PUMP	7	3	20	400	400/9000		27000	60	6	3	8	B/CR LB 10	8	
13	SUBFEED TO C-CC-PD-VEAC-06	13	3	1	100	67402	A: 22467/9000, B: 22467/9000, C: 22467/9000	27000	60	6	3	14	B/CR LB 12	14	
19	B/CR DS 14	19	3	6	60	15000		15000				20	W-C-CC-T-VEAC-04	20	
25	B/CR DS 15	25	3	6	60	15000		15000				26	B/CR DS 16	26	
27	SPACE	27										28		28	
29	SPACE	29										30		30	
TOTAL							66100	65700	65700						
TOTAL CONNECTED LOAD (VA)							197500								
(AMPS)							237.5								

* TOTAL CONNECTED LOAD (VA) 197500 (AMPS) 237.5

75 % DEMAND FACTOR TOTAL VA = 148125

PANEL VEAC-02		LOCATION LVEA RM 104				VOLTS 480Y/277V									
FED FROM	CKT #	MOUNTING RECESSED		MAIN		BUS 225									
CKT	LOAD SERVED	SLOT	POLES	WIRE SIZE	TRIP	VOLT AMPS	PHASE LOAD (VA)	VOLT AMPS	TRIP	WIRE SIZE	POLES	SLOT	LOAD SERVED	CKT	
1	HEATER BLANKET CART	1	3	60	27000	9000/1233	A: 9000/1233, B: 9000/1233, C: 9000/1233	3700	20	3	2	2	MAIN ROUGHING PUMP	2	
7	MAIN TURBO PUMP	7	3	60	400	400/9000		27000	60	6	3	8	C-CC-PD-VEAC-07	8	
13	SPACE	13	3	60	27000	9000	A: 9000, B: 9000, C: 9000	27000	60	6	3	14	C-CC-PD-VEAC-14	14	
19	SPACE	19	3	60	30000	10000	A: 10000, B: 10000, C: 10000	30000	50	6	3	20	W-C-CC-T-VEAC-02	20	
21	SPACE	21										22		22	
23	SPACE	23										24		24	
25	SPACE	25										26	SPACE	26	
27	SPACE	27										28	SPACE	28	
29	SPACE	29										30	SPACE	30	
TOTAL							38233	38233	38233						
TOTAL CONNECTED LOAD (VA)							114699								
(AMPS)							138.0								

PANEL VEAC-05		LOCATION LVEA RM 103				VOLTS 480Y/277V									
FED FROM	CKT #	MOUNTING RECESSED		MAIN		BUS 100									
CKT	LOAD SERVED	SLOT	POLES	WIRE SIZE	TRIP	VOLT AMPS	PHASE LOAD (VA)	VOLT AMPS	TRIP	WIRE SIZE	POLES	SLOT	LOAD SERVED	CKT	
1	B/CR RB 1	1	3	6	60	20000	A: 9000/6667, B: 9000/6667, C: 9000/6667	27000	60	6	3	2	REGEN HEATER	2	
7	B/CR VS 17	7	3	6	60	400	A: 400, B: 9000/6667, C: 9000/6667	60	6	6	3	8	B/CR RB 12	8	
13	SPACE	13	3	6	60	60		60			3	14	SPACE	14	
TOTAL							16067	15667	15667						
TOTAL CONNECTED LOAD (VA)							47401								
(AMPS)															

PANEL VEAC-03		LOCATION LVEA RM 103				VOLTS 480Y/277V									
FED FROM	CKT #	MOUNTING RECESSED		MAIN		BUS 225									
CKT	LOAD SERVED	SLOT	POLES	WIRE SIZE	TRIP	VOLT AMPS	PHASE LOAD (VA)	VOLT AMPS	TRIP	WIRE SIZE	POLES	SLOT	LOAD SERVED	CKT	
1	HEATER BLANKET CART	1	3	30	27000	9000/1233	A: 9000/1233, B: 9000/1233, C: 9000/1233	3700	20	3	2	2	MAIN ROUGHING PUMP	2	
7	MAIN TURBO PUMP	7	3	20	400	400/9000		27000				3	8	SPACE	8
13	SUBFEED TO C-CC-PD-VEAC-05	13	3	100	67402	22467/9000	A: 22467/9000, B: 22467/9000, C: 22467/9000	27000	60	6	3	14	C-CC-PD-VEAC-13	14	
19	SPACE	19	3	60	45000	15000		45000	60	6	3	20	W-C-CC-T-VEAC-03	20	
21	SPACE	21										22		22	
23	SPACE	23										24		24	
25	SPACE	25	3	60	60							26	SPACE	26	
27	SPACE	27										28		28	
29	SPACE	29										30		30	
TOTAL							66100	65700	65700						
TOTAL CONNECTED LOAD (VA)							197500								
(AMPS)							237.6								

* TOTAL CONNECTED LOAD (VA) 197500 (AMPS) 237.6

75 % DEMAND FACTOR TOTAL VA = 148125


PANEL VEAC-06		LOCATION LVEA RM 102				VOLTS 480Y/277V									
FED FROM	CKT #	MOUNTING RECESSED		MAIN		BUS 100									
CKT	LOAD SERVED	SLOT	POLES	WIRE SIZE	TRIP	VOLT AMPS	PHASE LOAD (VA)	VOLT AMPS	TRIP	WIRE SIZE	POLES	SLOT	LOAD SERVED	CKT	
1	B/CR LB 1	1	3	6	60	20000	A: 9000/6667, B: 9000/6667, C: 9000/6667	27000	60	6	3	2	REGEN HEATER LB2	2	
7	B/CR LB 20	7	3	6	60	400	A: 400, B: 9000/6667, C: 9000/6667	60	6	6	3	8	B/CR LB 2	8	
13	SPACE	13										14	SPACE	14	
TOTAL							16067	15667	15667						
TOTAL CONNECTED LOAD (VA)							47401								
(AMPS)							57.0								

This document and the design it covers are the property of PARSONS. They are loaned only with the borrower's expressed written agreement that they will not be reproduced, copied, loaned, exhibited, or used in any other way, except by written consent from PARSONS to the borrower.


ISSUED FOR CONSTRUCTION	DRAWN	M. M.	6-25-96
CHECKED	J. K.	7-3-96	
ENGINEER	K. R.	7-3-96	
PROJ	M. D. W.	7-8-96	

AS-BUILT DRAWINGS

NO.	DATE	BY	CHKD	ENGR	PROJ	DESCRIPTION
1	6-15-98	J. G.				ISSUED FOR AS-BUILT



100 WEST WALNUT STREET
PASADENA, CALIFORNIA



CALIFORNIA INSTITUTE OF TECHNOLOGY
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

LIGO-D960407-01-O

LASER INTERFEROMETER
GRAVITATIONAL-WAVE OBSERVATORY
SITE NO. 1 - HANFORD, WASHINGTON

TITLE	SCALE	CONTRACT NUMBER	PROJECT NUMBER
ELECTRICAL CORNER STATION LVEA VEAC PANEL SCHEDULES	NONE	PP150969	8094
SHEET NUMBER		REVISIONS	
WA-E-118			