DATE: 05/20/96 TIME: 18:40:14
DESIGN FILE: I:\ligo\site1\ee\wae118.d3z

PANEL VEAC-01 | FED FROM | CKT #
LOCATION LVEA RM 105 | MOUNTING RECESSSED | PHASE 3 | WIRE 4 | FEEDER | VOLTS 480Y/277V | MAIN | BUS 225

CKT	LOAD SERVED	SLOT	POLES	WIRE SIZE	TRIP	VOLT AMPS	PHASE LOAD (VA) A	B	C	VOLT AMPS	TRIP	WIRE SIZE	POLES	SLOT	LOAD SERVED	CKT
1	HEATER BLANKET CART	1	3			27000	9000 1233			3700			3	2	MAIN ROUGHING PUMP	2
		3				—		9000 1233		—				4		
		5				—			9000 1233	—				6		
7	MAIN TURBO PUMP	7	1			400	400 9000			27000			3	8	C-CC-PD-VEAC-07	8
9	SPARE	9						9000		—				10		
11	SPARE	11							9000	—				12		
13	SPARE	13					9000			27000			3	14	C-CC-PD-VEAC-14	14
15	SPACE	15						9000		—				16		
17	SPACE	17							9000	—				18		
19	SPACE	19					10000			30000			3	20	W-C-CC-T-VEAC-01	20
21	SPACE	21						10000		—				22		
23	SPACE	23							10000	—				24		
25	SPACE	25												26	SPACE	26
27	SPACE	27												28	SPACE	28
29	SPACE	29												30	SPACE	30
						TOTAL	38633	38233	38233							

TOTAL CONNECTED LOAD (VA) 114699
(AMPS)

B

PANEL VEAC-04 | FED FROM | CKT #
LOCATION LVEA RM 102 | MOUNTING RECESSSED | PHASE 3 | WIRE 4 | FEEDER | VOLTS 480Y/277V | MAIN | BUS 225

CKT	LOAD SERVED	SLOT	POLES	WIRE SIZE	TRIP	VOLT AMPS	PHASE LOAD (VA) A	B	C	VOLT AMPS	TRIP	WIRE SIZE	POLES	SLOT	LOAD SERVED	CKT
1	HEATER BLANKET CART	1	3			27000	9000 1233			3700			3	2	MAIN ROUGHING PUMP	2
		3				—		9000 1233		—				4		
		5				—			9000 1233	—				6		
7	MAIN TURBO PUMP	7	1			400	400 9000			27000			3	8	C-CC-PD-VEAC-12	8
9	SPARE	9				—		9000		—				10		
11	SPARE	11				—			9000	—				12		
13	SUBFEED TO C-CC-PD-VEAC-06	13	3			67402	22467 9000			27000			3	14	C-CC-PD-VEAC-13	14
		15				—		22467 9000		—				16		
		17				—			22467 9000	—				18		
19	SPACE	19					15000				45000		3	20	W-C-CC-T-VEAC-04	20
21	SPACE	21						15000		—				22		
23	SPACE	23							15000	—				24		
25	SPACE	25												26	SPACE	26
27	SPACE	27												28	SPACE	28
29	SPACE	29												30	SPACE	30
						TOTAL	66100	65700	65700							

* TOTAL CONNECTED LOAD (VA) 197500
(AMPS)

B

* 75 % DEMAND FACTOR TOTAL VA = 148125

PANEL VEAC-02 | FED FROM | CKT #
LOCATION LVEA RM 104 | MOUNTING RECESSSED | PHASE 3 | WIRE 4 | FEEDER | VOLTS 480Y/277V | MAIN | BUS 225

CKT	LOAD SERVED	SLOT	POLES	WIRE SIZE	TRIP	VOLT AMPS	PHASE LOAD (VA) A	B	C	VOLT AMPS	TRIP	WIRE SIZE	POLES	SLOT	LOAD SERVED	CKT
1	HEATER BLANKET CART	1	3			27000	9000 1233			3700			3	2	MAIN ROUGHING PUMP	2
		3				—		9000 1233		—				4		
		5				—			9000 1233	—				6		
7	MAIN TURBO PUMP	7	1			400	400 9000			27000			3	8	C-CC-PD-VEAC-07	8
9	SPARE	9						9000		—				10		
11	SPARE	11							9000	—				12		
13	SPARE	13					9000			27000			3	14	C-CC-PD-VEAC-14	14
15	SPACE	15						9000		—				16		
17	SPACE	17							9000	—				18		
19	SPACE	19					10000			30000				20	W-C-CC-T-VEAC-02	20
21	SPACE	21						10000		—				22		
23	SPACE	23							10000	—				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)

B

PANEL VEAC-05 | FED FROM | CKT #
LOCATION LVEA RM 103 | MOUNTING RECESSSED | PHASE 3 | WIRE 4 | FEEDER | VOLTS 480Y/277V | MAIN | BUS 100

CKT	LOAD SERVED	SLOT	POLES	WIRE SIZE	TRIP	VOLT AMPS	PHASE LOAD (VA) A	B	C	VOLT AMPS	TRIP	WIRE SIZE	POLES	SLOT	LOAD SERVED	CKT
1	HEATER BLANKET CART	1	3			20000	9000 6667			27000			3	2	CRYOPUMP REGENERATOR	2
		3				—		9000 6667		—				4		
		5				—			9000 6667	—				6		
7	MAIN TURBO PUMP	7	1			400	400						3	8	SPARE	8
9	SPARE	9												10		
11	SPARE	11												12		
						TOTAL	16067	15667	15667							

TOTAL CONNECTED LOAD (VA) 47401
(AMPS)

B

PANEL VEAC-03 | FED FROM | CKT #
LOCATION LVEA RM 103 | MOUNTING RECESSSED | PHASE 3 | WIRE 4 | FEEDER | VOLTS 480Y/277V | MAIN | BUS 225

CKT	LOAD SERVED	SLOT	POLES	WIRE SIZE	TRIP	VOLT AMPS	PHASE LOAD (VA) A	B	C	VOLT AMPS	TRIP	WIRE SIZE	POLES	SLOT	LOAD SERVED	CKT
1	HEATER BLANKET CART	1	3			27000	9000 1233			3700			3	2	MAIN ROUGHING PUMP	2
		3				—		9000 1233		—				4		
		5				—			9000 1233	—				6		
7	MAIN TURBO PUMP	7	1			400	400 9000			27000			3	8	C-CC-PD-VEAC-12	8
9	SPARE	9	1			—		9000		—				10		
11	SPARE	11	1			—			9000	—				12		
13	SUBFEED TO C-CC-PD-VEAC-05	13	3			67402	22467 9000			27000			3	14	C-CC-PD-VEAC-13	14
		15				—		22467 9000		—				16		
		17				—			22467 9000	—				18		
19	SPACE	19					15000			45000			3	20	W-C-CC-T-VEAC-03	20
21	SPACE	21						15000		—				22		
23	SPACE	23							15000	—				24		
25	SPACE	25												26	SPACE	26
27	SPACE	27												28	SPACE	28
29	SPACE	29												30	SPACE	30
						TOTAL	66100	65700	65700							

* TOTAL CONNECTED LOAD (VA) 197500
(AMPS)

B

* 75 % DEMAND FACTOR TOTAL VA = 148125

PANEL VEAC-06 | FED FROM | CKT #
LOCATION LVEA RM 102 | MOUNTING RECESSSED | PHASE 3 | WIRE 4 | FEEDER | VOLTS 480Y/277V | MAIN | BUS 100

CKT	LOAD SERVED	SLOT	POLES	WIRE SIZE	TRIP	VOLT AMPS	PHASE LOAD (VA) A	B	C	VOLT AMPS	TRIP	WIRE SIZE	POLES	SLOT	LOAD SERVED	CKT
1	HEATER BLANKET CART	1	3			20000	9000 6667			27000			3	2	CRYOPUMP REGENERATOR	2
		3				—		9000 6667		—				4		
		5				—			9000 6667	—				6		
7	MAIN TURBO PUMP	7	1			400	400						3	8	SPARE	8
9	SPARE	9												10		
11	SPARE	11												12		
						TOTAL	16067	15667	15667							

TOTAL CONNECTED LOAD (VA) 47401
(AMPS)

B

LIGO-D960407-B-O

NO.	DATE	BY	CHKD	ENGR	PROJ	DESCRIPTION
B	5-22-96	RAF			TDM	BID ADDENDUM #2
A	4-19-96				TDM	FINAL DESIGN REVIEW & BID

REFERENCES — DRAWING NO. | DESCRIPTION

REVISIONS

0
DRAWN J. G.
CHECKED
ENGINEER
PROJ

PARSONS
100 WEST WALNUT STREET
PASADENA, CALIFORNIA

LIGO
CALIFORNIA INSTITUTE OF TECHNOLOGY
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

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

TITLE
ELECTRICAL
CORNER STATION LVEA
VEAC
PANEL SCHEDULES

SCALE NONE | CONTRACT NUMBER PP150969 | PROJECT NUMBER 8094
SHEET NUMBER WA-E-118 | REVISIONS B

LIGOWAF3.BDR