

PANEL VEAC-01		LOCATION LVEA RM 105		VOLTS 480Y/277V												
FED FROM	CKT #	MOUNTING RECESSED		MAIN												
		PHASE 3	WIRE 4	FEEDER BUS 225												
CKT	LOAD SERVED	SLOT	POLES	WIRE SIZE	BKR	VOLT AMPS	PHASE LOAD (VA)			VOLT AMPS	BKR	WIRE SIZE	POLES	SLOT	LOAD SERVED	CKT
1	HEATER BLANKET CART	1	3		40	27000	A	B	C	3700	15		3	2	MAIN ROUGHING PUMP	2
7	MAIN TURBO PUMP	7	1		15	400				27000	40		3	8	C-CC-PD-VEAC-07	8
9	SPARE	9	1		15											
11	SPARE	11	1		20											
13	SPARE	13	3		20					27000	40		3	14	C-CC-PD-VEAC-14	14
19	SPACE	19														
21	SPACE	21								30000	45		3	20	L-C-CC-T-VEAC-01	20
23	SPACE	23														
25	SPACE	25														
27	SPACE	27														
29	SPACE	29														
TOTAL							38633	38233	38233							
TOTAL CONNECTED LOAD (VA)							114699									
(AMPS)																

PANEL VEAC-04		LOCATION LVEA RM 102		VOLTS 480Y/277V												
FED FROM	CKT #	MOUNTING RECESSED		MAIN												
		PHASE 3	WIRE 4	FEEDER BUS 225												
CKT	LOAD SERVED	SLOT	POLES	WIRE SIZE	BKR	VOLT AMPS	PHASE LOAD (VA)			VOLT AMPS	BKR	WIRE SIZE	POLES	SLOT	LOAD SERVED	CKT
1	HEATER BLANKET CART	1	3		40	27000	A	B	C	3700	15		3	2	MAIN ROUGHING PUMP	2
7	MAIN TURBO PUMP	7	1		15	400				27000	40		3	8	C-CC-PD-VEAC-12	8
9	SPARE	9	1		15											
11	SPARE	11	1		20											
13	SPARE	13	3		20					27000	40		3	14	C-CC-PD-VEAC-13	14
19	SPACE	19														
21	SPACE	21								15000						
23	SPACE	23														
25	SPACE	25														
27	SPACE	27														
29	SPACE	29														
TOTAL							69100	68700	68700							
TOTAL CONNECTED LOAD (VA)							206500									
(AMPS)																
75 % DEMAND FACTOR TOTAL VA = 148125																

PANEL VEAC-02		LOCATION LVEA RM 104		VOLTS 480Y/277V												
FED FROM	CKT #	MOUNTING RECESSED		MAIN												
		PHASE 3	WIRE 4	FEEDER BUS 225												
CKT	LOAD SERVED	SLOT	POLES	WIRE SIZE	BKR	VOLT AMPS	PHASE LOAD (VA)			VOLT AMPS	BKR	WIRE SIZE	POLES	SLOT	LOAD SERVED	CKT
1	HEATER BLANKET CART	1	3		40	27000	A	B	C	3700	15		3	2	MAIN ROUGHING PUMP	2
7	MAIN TURBO PUMP	7	1		15	400				27000	40		3	8	C-CC-PD-VEAC-07	8
9	SPARE	9	1		15											
11	SPARE	11	1		20											
13	SPARE	13	3		20					27000	40		3	14	C-CC-PD-VEAC-14	14
19	SPACE	19														
21	SPACE	21								30000	45		3	20	L-C-CC-T-VEAC-02	20
23	SPACE	23														
25	SPACE	25														
27	SPACE	27														
29	SPACE	29														
TOTAL							38233	38233	38233							
TOTAL CONNECTED LOAD (VA)							114699									
(AMPS)																

PANEL VEAC-05		LOCATION LVEA RM 103		VOLTS 480Y/277V												
FED FROM	CKT #	MOUNTING RECESSED		MAIN												
		PHASE 3	WIRE 4	FEEDER BUS 100												
CKT	LOAD SERVED	SLOT	POLES	WIRE SIZE	BKR	VOLT AMPS	PHASE LOAD (VA)			VOLT AMPS	BKR	WIRE SIZE	POLES	SLOT	LOAD SERVED	CKT
1	HEATER BLANKET CART	1	3		15	20000	A	B	C	27000	40		3	2	CRYOPUMP REGENERATOR	2
7	MAIN TURBO PUMP	7	1		15	400				400	40		3	8	SPARE	8
9	SPARE	9	1		15											
11	SPARE	11	1		20											
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												
		PHASE 3	WIRE 4	FEEDER BUS 225												
CKT	LOAD SERVED	SLOT	POLES	WIRE SIZE	BKR	VOLT AMPS	PHASE LOAD (VA)			VOLT AMPS	BKR	WIRE SIZE	POLES	SLOT	LOAD SERVED	CKT
1	HEATER BLANKET CART	1	3		40	27000	A	B	C	3700	15		3	2	MAIN ROUGHING PUMP	2
7	MAIN TURBO PUMP	7	1		15	400				27000	40		3	8	C-CC-PD-VEAC-12	8
9	SPARE	9	1		15											
11	SPARE	11	1		20											
13	SPARE	13	3		20					27000	40		3	14	C-CC-PD-VEAC-13	14
19	SPACE	19														
21	SPACE	21								15000						
23	SPACE	23														
25	SPACE	25														
27	SPACE	27														
29	SPACE	29														
TOTAL							66100	65700	65700							
TOTAL CONNECTED LOAD (VA)							197500									
(AMPS)																
75 % DEMAND FACTOR TOTAL VA = 148125																

PANEL VEAC-06		LOCATION LVEA RM 102		VOLTS 480Y/277V												
FED FROM	CKT #	MOUNTING RECESSED		MAIN												
		PHASE 3	WIRE 4	FEEDER BUS 100												
CKT	LOAD SERVED	SLOT	POLES	WIRE SIZE	BKR	VOLT AMPS	PHASE LOAD (VA)			VOLT AMPS	BKR	WIRE SIZE	POLES	SLOT	LOAD SERVED	CKT
1	HEATER BLANKET CART	1	3		15	20000	A	B	C	27000	40		3	2	CRYOPUMP REGENERATOR	2
7	MAIN TURBO PUMP	7	1		15	400				400	40		3	8	SPARE	8
9	SPARE	9	1		15											
11	SPARE	11	1		20											
TOTAL							16067	15667	15667							
TOTAL CONNECTED LOAD (VA)							47401									
(AMPS)																

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ISSUED FOR CONSTRUCTION
 DRAWN M.M. 11-15-96
 CHECKED JCL 7-24-96
 ENGINEER KCR 10-25-98
 PROJ T.D.M. 11-15-98

AS-BUILT DRAWINGS

PARSONS
 100 WEST WALNUT STREET
 PASADENA, CALIFORNIA

LIGO
 CALIFORNIA INSTITUTE OF TECHNOLOGY
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY

LIGO-D961020-01-0
 LASER INTERFEROMETER
 GRAVITATIONAL-WAVE OBSERVATORY
 SITE NO.2 - LIVINGSTON, LOUISIANA

TITLE: ELECTRICAL CORNER STATION LVEA VEAC PANEL SCHEDULES
 SCALE: NONE
 CONTRACT NUMBER: PPI50969
 PROJECT NUMBER: 8094
LA-E-118

NO.	DATE	BY	CHKD	ENGR	PROJ	DESCRIPTION
1	8-7-96	JE				ISSUED FOR AS-BUILT