DATE: 04/09/96 TIME: 21:26:04
DESIGN FILE: I:\ligo\site1\ee\wae206.d3z



PANEL VEAC_01A — FED FROM: DP_01, CKT #: 19 — LOCATION: ROOM 202 — MOUNTING: Recessed — PHASE: 3 — WIRE: 4 — FEEDER: 4#2/0 & 1#4 — VOLTS: 208Y/120V — MAIN: 100A — 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 | GEN RECP PUMP 1 | 1 | 1 | 0 | 0 | 1900 | 1900 / 2867 | 0 | 0 | 8600 | 0 | 0 | 3 | 2 | GENERAL LOAD | 2 |
| 3 | GEN RECP PUMP 2 | 3 | 1 | 0 | 0 | 1900 | 0 | 1900 / 2867 | 0 | | | | | 4 | | |
| 5 | GATE VALVE 1 | 5 | 1 | 0 | 0 | 1400 | 0 | 0 | 1400 / 2867 | | | | | 6 | | |
| 7 | Spare | 7 | 1 | 0 | 0 | 0 | 0 / 0 | 0 / 0 | 0 / 0 | 0 | 0 | 0 | 1 | 8 | Spare | 8 |
| 9 | Spare | 9 | 1 | 0 | 0 | 0 | 0 / 0 | 0 / 0 | 0 / 0 | 0 | 0 | 0 | 1 | 10 | Spare | 10 |
| 11 | GATE VALVE 2 | 11 | 1 | 0 | 0 | 1400 | 0 / 0 | 0 / 0 | 1400 / 0 | 0 | 0 | 0 | 1 | 12 | Spare | 12 |
| | | | | | | TOTAL | 4767 | 4767 | 5667 | | | | | | | |

TOTAL CONNECTED LOAD (VA): 15200
(AMPS):

PANEL VEAC_02A — FED FROM: DP_01, CKT #: 19 — LOCATION: ROOM 202 — MOUNTING: Recessed — PHASE: 3 — WIRE: 4 — FEEDER: 4#2/0 & 1#4 — VOLTS: 208Y/120V — MAIN: 100A — 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 | GEN RECP PUMP 3 | 1 | 1 | 0 | 0 | 1900 | 1900 / 2867 | 0 | 0 | 8600 | 0 | 0 | 3 | 2 | GENERAL LOAD | 2 |
| | GEN RECP PUMP 4 | 3 | 1 | 0 | 0 | 1900 | 0 | 1900 / 2867 | 0 | | | | | 4 | | |
| | GATE VALVE 3 | 5 | 1 | 0 | 0 | 1400 | 0 | 0 | 1400 / 2867 | | | | | 6 | | |
| 7 | VE RACK (FUTURE) | 7 | 1 | 0 | 0 | 1900 | 1900 / 0 | 0 / 0 | 0 / 0 | 0 | 0 | 0 | 1 | 8 | Spare | 8 |
| 9 | Spare | 9 | 1 | 0 | 0 | 0 | 0 / 0 | 0 / 0 | 0 / 0 | 0 | 0 | 0 | 1 | 10 | Spare | 10 |
| 11 | GATE VALVE 4 | 11 | 1 | 0 | 0 | 1400 | 0 / 0 | 0 / 0 | 1400 / 0 | 0 | 0 | 0 | 1 | 12 | Spare | 12 |
| | | | | | | TOTAL | 6667 | 4767 | 5667 | | | | | | | |

TOTAL CONNECTED LOAD (VA): 17100
(AMPS):

PANEL DP_01 — FED FROM: —, CKT #: — — LOCATION: ROOM 203 — MOUNTING: Surface Mount — PHASE: 3 — WIRE: 3 — FEEDER: (2)4#500KCMIL — VOLTS: 480Y/277V — MAIN: 800AF/600AT — BUS: 800

| 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 HC_03 | 1 | 1 | 0 | 0 | 75000 | 75000 / 2106 | 0 | 0 | 6318 | 0 | 0 | 3 | 2 | AIR COMPRESS 01,02 | 2 |
| | | 3 | 1 | 0 | 0 | 0 | 0 | 25000 / 2106 | 0 | | | | | 4 | | |
| | | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 25000 / 2106 | | | | | 6 | | |
| 7 | CHILLER 01 | 7 | 3 | 0 | 0 | 77000 | 25667 / 25667 | | | 77000 | 0 | 0 | 3 | 8 | CHILLER 02 | 8 |
| | | 9 | | | | | | 25667 / 25667 | | | | | | 10 | | |
| | | 11 | | | | | | | 25667 / 25667 | | | | | 12 | | |
| 13 | SUPPLY FAN SF-01 | 13 | 3 | 0 | 0 | 28267 | 9422 / 9422 | | | 28267 | 0 | 0 | 3 | 14 | SUPPLY FAN SF-02 | 14 |
| | | 15 | | | | | | 9422 / 9422 | | | | | | 16 | | |
| | | 17 | | | | | | | 9422 / 9422 | | | | | 18 | | |
| 19 | RP-1,VEAC-1A,2A,04A | 19 | 3 | 0 | 0 | 55380 | 18460 / 53729 | | | 161188 | 0 | 0 | 3 | 20 | PNL DP-02 | 20 |
| | | 21 | | | | | | 18460 / 53729 | | | | | | 22 | | |
| | | 23 | | | | | | | 18460 / 53729 | | | | | 24 | | |
| 25 | PNL CDSAC_01 | 25 | 3 | 0 | 0 | 11520 | 3840 / 27800 | | | 83400 | 0 | 0 | 3 | 26 | PNL VEAC_01B | 26 |
| | | 27 | | | | | | 3840 / 27800 | | | | | | 28 | | |
| | | 29 | | | | | | | 3840 / 27800 | | | | | 30 | | |
| 31 | PNL VEAC_02B | 31 | 3 | 0 | 0 | 47400 | 15800 / 0 | 0 | 0 | 0 | 0 | 0 | 1 | 32 | Spare | 32 |
| | | 33 | | | | | 0 | 15800 / 0 | 0 | 0 | 0 | 0 | 1 | 34 | Spare | 34 |
| | | 35 | | | | | 0 | 0 | 15800 / 0 | 0 | 0 | 0 | 1 | 36 | Spare | 36 |
| 37 | MCC_01 | 37 | 3 | 0 | 0 | 36578 | 12193 / 10000 | | | 30000 | 0 | 0 | 3 | 38 | PNL VEAC_04B | 38 |
| | | 39 | | | | | | 12193 / 10000 | | | | | | 40 | | |
| | | 41 | | | | | | | 12193 / 10000 | | | | | 42 | | |
| | | | | | | TOTAL | 289106 | 214106 | 214106 | | | | | | | |

TOTAL CONNECTED LOAD (VA): 717318
(AMPS):

* NOTE:
THIS SCHEULE IS FOR REFERENCE ONLY,
SEE SINGLE LINE DIAGRAM ON DRAWING #
WA-E-008 FOR DISTRIBUTION PANEL DP-01.

PANEL CDSAC_01 — FED FROM: DP_01, CKT #: 25 — LOCATION: ROOM 202 — MOUNTING: Recessed — PHASE: 3 — WIRE: 4 — FEEDER: 4#2/0 & 1#4 GND — VOLTS: 208Y/120V — MAIN: 100A — 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 | CDS RACK POWER | 1 | 1 | 0 | 0 | 1920 | 1920 / 1920 | 0 / 0 | 0 / 0 | 1920 | 0 | 0 | 1 | 2 | CDS RACK POWER | 2 |
| 3 | CDS RACK POWER | 3 | 1 | 0 | 0 | 1920 | 0 / 0 | 1920 / 1920 | 0 / 0 | 1920 | 0 | 0 | 1 | 4 | CDS RACK POWER | 4 |
| 5 | CDS RACK POWER | 5 | 1 | 0 | 0 | 1920 | 0 / 0 | 0 / 0 | 1920 / 1920 | 1920 | 0 | 0 | 1 | 6 | CDS RACK POWER | 6 |
| 7 | Spare | 7 | 1 | 0 | 0 | 0 | 0 / 0 | 0 / 0 | 0 / 0 | 0 | 0 | 0 | 1 | 8 | Spare | 8 |
| 9 | Spare | 9 | 1 | 0 | 0 | 0 | 0 / 0 | 0 / 0 | 0 / 0 | 0 | 0 | 0 | 1 | 10 | Spare | 10 |
| 11 | Spare | 11 | 1 | 0 | 0 | 0 | 0 / 0 | 0 / 0 | 0 / 0 | 0 | 0 | 0 | 1 | 12 | Spare | 12 |
| 13 | Spare | 13 | 1 | 0 | 0 | 0 | 0 / 0 | 0 / 0 | 0 / 0 | 0 | 0 | 0 | 1 | 14 | Spare | 14 |
| 15 | Spare | 15 | 1 | 0 | 0 | 0 | 0 / 0 | 0 / 0 | 0 / 0 | 0 | 0 | 0 | 1 | 16 | Spare | 16 |
| 17 | Spare | 17 | 1 | 0 | 0 | 0 | 0 / 0 | 0 / 0 | 0 / 0 | 0 | 0 | 0 | 1 | 18 | Spare | 18 |
| 19 | Spare | 19 | 1 | 0 | 0 | 0 | 0 / 0 | 0 / 0 | 0 / 0 | 0 | 0 | 0 | 1 | 20 | Spare | 20 |
| 21 | Spare | 21 | 1 | 0 | 0 | 0 | 0 / 0 | 0 / 0 | 0 / 0 | 0 | 0 | 0 | 1 | 22 | Spare | 22 |
| 23 | Spare | 23 | 1 | 0 | 0 | 0 | 0 / 0 | 0 / 0 | 0 / 0 | 0 | 0 | 0 | 1 | 24 | Spare | 24 |
| 25 | Spare | 25 | 1 | 0 | 0 | 0 | 0 / 0 | 0 / 0 | 0 / 0 | 0 | 0 | 0 | 1 | 26 | Spare | 26 |
| 27 | Spare | 27 | 1 | 0 | 0 | 0 | 0 / 0 | 0 / 0 | 0 / 0 | 0 | 0 | 0 | 1 | 28 | Spare | 28 |
| 29 | Spare | 29 | 1 | 0 | 0 | 0 | 0 / 0 | 0 / 0 | 0 / 0 | 0 | 0 | 0 | 1 | 30 | Spare | 30 |
| | | | | | | TOTAL | 3840 | 3840 | 3840 | | | | | | | |

TOTAL CONNECTED LOAD (VA): 11520
(AMPS):

PANEL VEAC_04A — FED FROM: DP_01, CKT #: — — LOCATION: ROOM 205 — MOUNTING: Surface Mount — PHASE: 3 — WIRE: 4 — FEEDER: 4#2/0 & 1#4 GND — VOLTS: 208Y/120V — MAIN: 100A — 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 | VE RACK | 1 | 1 | 0 | 0 | 1900 | 1900 / 0 | 0 / 0 | 0 / 0 | 0 | 0 | 0 | 1 | 2 | Spare | 2 |
| 3 | VAC GAUGE PS | 3 | 1 | 0 | 0 | 1000 | 0 / 0 | 1000 / 0 | 0 / 0 | 0 | 0 | 0 | 1 | 4 | Spare | 4 |
| 5 | MAIN ION OUMP PS | 5 | 1 | 0 | 0 | 1400 | 0 / 0 | 0 / 0 | 1400 / 0 | 0 | 0 | 0 | 1 | 6 | Spare | 6 |
| 7 | Spare | 7 | 1 | 0 | 0 | 0 | 0 / 0 | 0 / 0 | 0 / 0 | 0 | 0 | 0 | 1 | 8 | Spare | 8 |
| 9 | Spare | 9 | 1 | 0 | 0 | 0 | 0 / 0 | 0 / 0 | 0 / 0 | 0 | 0 | 0 | 1 | 10 | Spare | 10 |
| 11 | Spare | 11 | 1 | 0 | 0 | 0 | 0 / 0 | 0 / 0 | 0 / 0 | 0 | 0 | 0 | 1 | 12 | Spare | 12 |
| | | | | | | TOTAL | 1900 | 1000 | 1400 | | | | | | | |

TOTAL CONNECTED LOAD (VA): 4300
(AMPS):

PANEL VEAC_04B — FED FROM: DP_01, CKT #: 38 — LOCATION: ROOM 205 — MOUNTING: Surface Mount — PHASE: 3 — WIRE: 4 — FEEDER: 4#1 &1#6 GND — VOLTS: 480Y/277V — MAIN: Main lugs — BUS: 125

| 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 | TURBO BACKING PUMP | 1 | 3 | 0 | 0 | 8000 | 2667 / 0 | | | 0 | 0 | 0 | 3 | 2 | SPARE | 2 |
| | | 3 | | | | | | 2667 / 0 | | | | | | 4 | | |
| | | 5 | | | | | | | 2667 / 0 | | | | | 6 | | |
| 7 | SPARE | 7 | 3 | 0 | 0 | 0 | 0 / 0 | | | 0 | 0 | 0 | 3 | 8 | SPARE | 8 |
| | | 9 | | | | | | 0 / 0 | | | | | | 10 | | |
| | | 11 | | | | | | | 0 / 0 | | | | | 12 | | |
| | | | | | | TOTAL | 2667 | 2667 | 2667 | | | | | | | |

TOTAL CONNECTED LOAD (VA): 8000
(AMPS):

| Date Received: 4-19-96 | LIGO-D960416-A-D Contractor #: WA-E-206 Rev.A |
|---|---|
| TIM #: 28 | LIGO-C960857-00-V |
| Date: 4/19/96 | Approved: |
| TDM #: | LIGO- |
| Date: / / | Approved: |
| Gen'l Transmittal | LIGO- |
| Date: / / | Approved: |

| REFERENCES | | REVISIONS | | | | | | |
|---|---|---|---|---|---|---|---|---|
| DRAWING NO. | DESCRIPTION | NO. | DATE | BY | CHKD | ENGR | PROJ | DESCRIPTION |
| | | A | 4-19-96 | J.G. | JK | VR | TDM | FINAL DESIGN REVIEW & BID |

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. 1 - HANFORD, WASHINGTON

TITLE: ELECTRICAL
MID & END A STATIONS
PANEL SCHEDULES

SCALE: NONE — CONTRACT NUMBER: PP150969 — PROJECT NUMBER: 8094
SHEET NUMBER: WA-E-206 — REVISIONS: A

LIGO-D960416-A-O

LIGOWAF3.BDR

Tue Apr 09 21:25:05 1996 s3-t36b2 J:\PLOTS\QUEUES\T36B2\EE206.PRF