

| PANEL VEAC-17             |                                    | LOCATION LVEA RM 107 |        |           |       |               |                 |               |      |           |      | VOLTS 480Y/277V |       |                                   |             |     |
|---------------------------|------------------------------------|----------------------|--------|-----------|-------|---------------|-----------------|---------------|------|-----------|------|-----------------|-------|-----------------------------------|-------------|-----|
| FED FROM                  | CKT #                              | MOUNTING RECESSED    |        |           |       |               |                 |               |      |           |      | MAIN            |       |                                   |             |     |
|                           |                                    | PHASE 3              | WIRE 4 | FEEDER    |       |               |                 | 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 |
|                           |                                    |                      |        |           |       |               | A               | B             | C    |           |      |                 |       |                                   |             |     |
| 1                         | PURGE AIR COMPRESSOR (61 KVA)      | 1                    | 3      | 60        | 61000 | 20333<br>2667 | 20333<br>2667   | 20333<br>2667 | 8000 | 20        | 3    | 2               | 2     | TURBO VACUUM BACKING PUMP (8 KVA) | 2           |     |
| 7                         | ROUGH VACUUM BACKING PUMP (52 KVA) | 7                    | 3      | 8         | 40    | 17333<br>2667 | 17333<br>2667   | 17333<br>2667 | 8000 | 20        | 3    | 8               | 8     | TURBO VACUUM BACKING PUMP (8 KVA) | 8           |     |
| 13                        | ROUGH VACUUM BACKING PUMP (52 KVA) | 13                   | 3      | 8         | 40    | 17333         |                 |               | 20   |           | 1    | 14              | 14    | SPARE                             | 14          |     |
| 15                        |                                    | 15                   |        |           |       | 17333         |                 |               | 20   |           | 1    | 16              | 16    | SPARE                             | 16          |     |
| 17                        |                                    | 17                   |        |           |       |               | 17333           |               | 20   |           | 1    | 18              | 18    | SPARE                             | 18          |     |
| 19                        | SPACE                              | 19                   |        |           |       |               |                 |               |      |           |      | 20              | 20    | SPACE                             | 20          |     |
| 21                        | SPACE                              | 21                   |        |           |       |               |                 |               |      |           |      | 22              | 22    | SPACE                             | 22          |     |
| 23                        | SPACE                              | 23                   |        |           |       |               |                 |               |      |           |      | 24              | 24    | SPACE                             | 24          |     |
| 25                        | SPACE                              | 25                   |        |           |       |               |                 |               |      |           |      | 26              | 26    | SPACE                             | 26          |     |
| 27                        | SPACE                              | 27                   |        |           |       |               |                 |               |      |           |      | 28              | 28    | SPACE                             | 28          |     |
| 29                        | SPACE                              | 29                   |        |           |       |               |                 |               |      |           |      | 30              | 30    | SPACE                             | 30          |     |
| TOTAL                     |                                    |                      |        |           |       | 60333         | 60333           | 60333         |      |           |      |                 |       |                                   |             |     |
| TOTAL CONNECTED LOAD (VA) |                                    |                      |        |           |       | 180999        |                 |               |      |           |      |                 |       |                                   |             |     |
| (AMPS)                    |                                    |                      |        |           |       | 217.7         |                 |               |      |           |      |                 |       |                                   |             |     |

| PANEL VEAC-17A            |  | LOCATION LVEA RM 107 |        |           |      |            |                 |            |      |           |      | VOLTS 208Y/120V |       |  |             |     |
|---------------------------|--|----------------------|--------|-----------|------|------------|-----------------|------------|------|-----------|------|-----------------|-------|--|-------------|-----|
| FED FROM                  | CKT #                                      | MOUNTING RECESSED    |        |           |      |            |                 |            |      |           |      | MAIN            |       |  |             |     |
|                           |  | PHASE 3              | WIRE 4 | FEEDER    |      |            |                 | 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 |
|                           |  |                      |        |           |      |            | A               | B          | C    |           |      |                 |       |  |             |     |
| 1                         | MAIN ION PUMP POWER SUPPLY NO. 1 (1.9 KVA) | 1                    | 1      | 20        | 1900 | 633<br>633 | 633<br>633      | 633<br>633 | 1900 | 20        | 3    | 2               | 2     | MAIN ION PUMP POWER SUPPLY NO. 5 (1.9 KVA) | 2           |     |
| 7                         | MAIN ION PUMP POWER SUPPLY NO. 2 (1.9 KVA) | 7                    | 1      | 20        | 1900 | 633<br>633 | 633<br>633      | 633<br>633 | 1900 | 20        | 3    | 8               | 8     | MAIN ION PUMP POWER SUPPLY NO. 6 (1.9 KVA) | 8           |     |
| 13                        | MAIN ION PUMP POWER SUPPLY NO. 3 (1.9 KVA) | 13                   | 1      | 20        | 1900 | 633<br>633 | 633<br>633      | 633<br>633 | 1900 | 20        | 3    | 14              | 14    | MAIN ION PUMP POWER SUPPLY NO. 7 (1.9 KVA) | 14          |     |
| 19                        | MAIN ION PUMP POWER SUPPLY NO. 4 (1.9 KVA) | 19                   | 3      | 20        | 1900 | 633<br>633 | 633<br>633      | 633<br>633 | 1900 | 20        | 3    | 20              | 20    | MAIN ION PUMP POWER SUPPLY NO. 8 (1.9 KVA) | 20          |     |
| 25                        | VACUUM EQUIPMENT RACK NO. 1                | 25                   | 1      | 20        | 1920 | 1920       |                 |            | 1000 | 20        | 12   | 1               | 26    | VACUUM GAUGE POWER SUPPLY                  | 26          |     |
| 27                        | VACUUM EQUIPMENT RACK NO. 2                | 27                   | 1      | 20        | 1920 |            | 1920            |            |      |           |      |                 | 28    | SPACE                                      | 28          |     |
| 29                        | VACUUM EQUIPMENT FUTURE                    | 29                   | 1      | 20        | 1920 |            | 1920            |            |      |           |      |                 | 30    | SPACE                                      | 30          |     |
| 31                        | VACUUM FUTURE                              | 31                   | 1      | 20        | 1920 |            |                 |            |      |           | 30   | 3               | 32    | SPACE                                      | 32          |     |
| 33                        | SPACE                                      | 33                   |        |           |      |            |                 |            |      |           |      |                 | 34    | SPACE                                      | 34          |     |
| 35                        | SPACE                                      | 35                   |        |           |      |            |                 |            |      |           |      |                 | 36    | SPACE                                      | 36          |     |
| 37                        | MAIN BREAKER (BACKFEED TO BUS)             | 37                   | 3      | 100       |      |            |                 |            |      |           | 30   | 3               | 38    | SPACE                                      | 38          |     |
| 39                        |  | 39                   |        |           |      |            |                 |            |      |           |      |                 | 40    |  | 40          |     |
| 41                        |  | 41                   |        |           |      |            |                 |            |      |           |      |                 | 42    |  | 42          |     |
| TOTAL                     |  |                      |        |           |      | 9904       | 6984            | 6984       |      |           |      |                 |       |  |             |     |
| TOTAL CONNECTED LOAD (VA) |  |                      |        |           |      | 23872      |                 |            |      |           |      |                 |       |  |             |     |
| (AMPS)                    |  |                      |        |           |      | 66.26      |                 |            |      |           |      |                 |       |  |             |     |

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

|                         |          |         |
|-------------------------|----------|---------|
| 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**



100 WEST WALNUT STREET  
PASADENA, CALIFORNIA



CALIFORNIA INSTITUTE OF TECHNOLOGY  
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

**LIGO-D960409-01-0**

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

|  |       |                 |                |
|--|-------|-----------------|----------------|
| TITLE  | SCALE | CONTRACT NUMBER | PROJECT NUMBER |
| ELECTRICAL<br>CORNER STATION LVEA<br>VEAC<br>PANEL SCHEDULES | NONE  | PP150969        | 8094           |
| SHEET NUMBER   |       | REVISIONS       |                |
| WA-E-120   |       |                 |                |