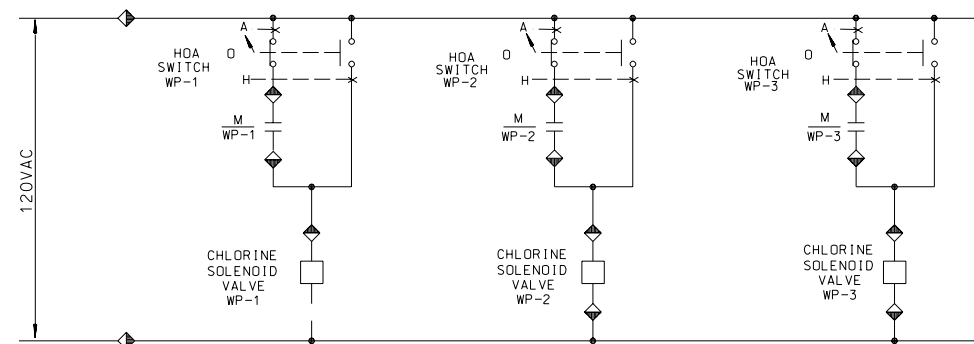


- NOTES:
1. ALL EXPOSED CONDUIT SHALL BE PVC-COATED RIGID GALVANIZED STEEL.
  2. EXPOSED 1/2" CONDUITS TO BE INSTALLED FROM WIRING GUTTERS FOR RECPTACLES, LIGHTING, FANS, HEATERS, ANALYZER POWER, LEAK DETECTOR POWER AND SOLENOID VALVE CONTROL.
  3. WIRING GUTTER AND H-O-A SWITCH CABINET SHALL BE NEMA 4X, TYPE 304 STAINLESS STEEL.
  4. NO ALUMINUM OR GALVANIZED STEEL HARDWARE SHALL BE USED.

| SYMBOL | LAMP       | MGT/HGT.        | TYPE   | MANUFACTURER     | FIXTURE |
|--------|------------|-----------------|--|------------------|---------|
|        | 2F40T12 CW | CEILING/SURFACE | ENCLOSED AND GASKETED FLUORESCENT SUITABLE FOR HAZRDOUS LOCATIONS 120VAC | DAY BRITE R41241 |         |
|        |            | WALL/SURFACE    | OUTDOOR 70W HPS CUTOFF WALL PACK WITH PHOTOELECTRIC CONTROL              |                  |         |

CHLORINE CONTROL SCHEMATIC (3)

N.T.S.

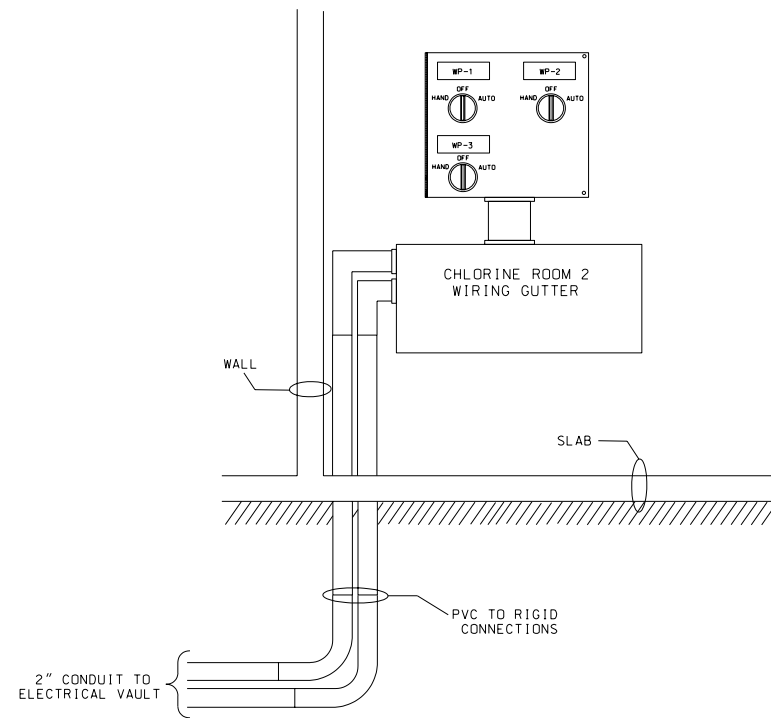


◆ TERMINAL POINT IN H-O-A SWITCH CABINET. DARK SIDE INDICATES CONNECTION INTERNAL TO CABINET.

1. HOA SELECTOR SWITCHES SHALL BE MAINTAINED POSITION, NEMA 4X.

CHLORINE ROOM 2 CONTROL SWITCH CABINET & GUTTER (4)

N.T.S.



POWER PANELS (2)

N.T.S.

| ELECTRICAL ROOM POWER PANEL "A"                                    |              |              |                |              |              |
|--|--------------|--------------|----------------|--------------|--------------|
| TYPE: 225 AMP COPPER BUS WITH INSULATED NEUTRAL BUS AND GROUND BUS |              |              |                |              |              |
| CIRCUIT DESCRIPTION  | BREAKER AMPS | BREAKER POLE | CIRCUIT NUMBER | BREAKER POLE | BREAKER AMPS |
| HSP-2 DISCHARGE VALVE OPERATOR                                     | 20           | 3            | 1 2            | 3            | 150          |
|  |              |              | 3 4            |              |              |
|  |              |              | 5 6            |              |              |
| HSP-4 DISCHARGE VALVE OPERATOR                                     | 20           | 3            | 7 8            | 1            | 20           |
|  |              |              | 9 10           |              |              |
|  |              |              | 11 12          |              |              |
| MCC HSP-2 TEST POWER   | 20           | 1            | 13 14          | 1            | 20           |
| MCC HSP-2 WORKLIGHT, RECEPTACLE AND FLOWMETER                      | 20           | 1            | 15 16          | 1            | 20           |
| MCC HSP-2 SPACE HEATER CKT   | 20           | 1            | 17 18          | 1            | 20           |
| HSP-2 HEAT TRACE   | 20           | 1            | 19 20          | 1            | 20           |
| MCC HSP-4 TEST POWER   | 20           | 1            | 21 22          | 1            | 20           |
| MCC HSP-4 WORKLIGHT & RECEPTACLE                                   | 20           | 1            | 23 24          | 1            | 20           |
| MCC HSP-4 SPACE HEATER CKT   | 20           | 1            | 25 26          | 1            | 20           |
| HSP-4 HEAT TRACE   | 20           | 1            | 27 28          | 1            | 20           |
| MCC "A" CUBICLE HEATERS  | 20           | 1            | 29 30          | 1            | 20           |
| SPARE  | 20           | 1            | 31 32          | 1            | 20           |

\* THE CIRCUIT BREAKER SHALL BE KEY INTERLOCKED WITH MAIN "A" AND MAIN "B" BREAKERS TO PREVENT CLOSING TIE BREAKER WITHOUT HAVING EITHER MAIN "A" OR MAIN "B" OPENED.

| ELECTRICAL ROOM POWER PANEL "B"                                    |              |              |                |              |              |
|--|--------------|--------------|----------------|--------------|--------------|
| TYPE: 225 AMP COPPER BUS WITH INSULATED NEUTRAL BUS AND GROUND BUS |              |              |                |              |              |
| CIRCUIT DESCRIPTION  | BREAKER AMPS | BREAKER POLE | CIRCUIT NUMBER | BREAKER POLE | BREAKER AMPS |
| HSP-1 DISCHARGE VALVE OPERATOR                                     | 20           | 3            | 1 2            | 3            | 20           |
|  |              |              | 3 4            |              |              |
|  |              |              | 5 6            |              |              |
| MCC HSP-1 TEST POWER   | 20           | 1            | 7 8            | 1            | 20           |
| MCC HSP-1 WORKLIGHT, RECEPTACLE AND FLOWMETER                      | 20           | 1            | 9 10           | 1            | 20           |
| MCC HSP-1 SPACE HEATER CKT   | 20           | 1            | 11 12          | 1            | 20           |
| HSP-1 HEAT TRACE   | 20           | 1            | 13 14          | 1            | 20           |
| MCC HSP-3 TEST POWER   | 20           | 1            | 15 16          | 1            | 20           |
| MCC HSP-3 WORKLIGHT, RECEPTACLE AND FLOWMETER                      | 20           | 1            | 17 18          | 1            | 20           |
| MCC HSP-3 SPACE HEATER CKT   | 20           | 1            | 19 20          | 1            | 20           |
| HSP-3 HEAT TRACE   | 20           | 1            | 21 22          | 1            | 20           |
| MCC "B" CUBICLE HEATERS  | 20           | 1            | 23 24          | 1            | 20           |
| LEVEL ELECTRODE CONTROL POWER TANK NO.2                            | 20           | 1            | 25 26          | 1            | 20           |
| CHLORINE HOUSE LIGHTING (ROOM 1)                                   | 20           | 1            | 27 28          | 1            | 20           |
| CHLORINE HOUSE RECEPTACLES (ROOM 1)                                | 20           | 1            | 29 30          | 1            | 20           |
| CHLORINE HOUSE HEATER (ROOM 1)                                     | 20           | 1            | 31 32          | 1            | 20           |
| CHLORINE HOUSE FAN (ROOM 1)  | 20           | 1            | 33 34          | 1            | 20           |
| CHLORINE HOUSE LEAK DETECTOR (ROOM 1)                              | 20           | 1            | 35 36          | 1            | 20           |
| SUPERVISORY CONTROL PANEL  | 20           | 1            | 37 38          | 1            | 20           |
| SPARE  |              |              | 39 40          | 1            | 20           |
| SPARE  |              |              | 41 42          | 1            | 20           |

| No.   | Revision | Drawn | Approved | Date  |
|---|----------|-------|----------|-------|
| Revisions   |          |       |          |       |
|   |          |       |          |       |
| <b>DESIGN STANDARDS PUMP STATION</b><br>PANEL SCHEDULES & CHLORINE ROOM DETAILS |          |       |          |       |
| Developer SAN ANTONIO WATER SYSTEMS   |          |       |          |       |
| Cont. Budget Proj.  |          |       |          |       |
| SUBMITTED GRUBB ENGINEERING, INC.   |          |       |          |       |
| APPROVED _____  |          |       |          |       |
| Map No.   |          |       |          | Sheet |
| Section No.   |          |       | Job No.  |       |
| Dr. RdcjCh  |          |       | E21      |       |