

---

---

# COX

Research and Technology, Inc.

---

---

## BELLSOUTH DUPLEX PUMP CONTROL PANEL

Cox Research and Technology, Inc.  
14697 S. Harrells Ferry Road  
Baton Rouge, LA. 70816  
(225) 756-3271 Fax (225) 755-1030

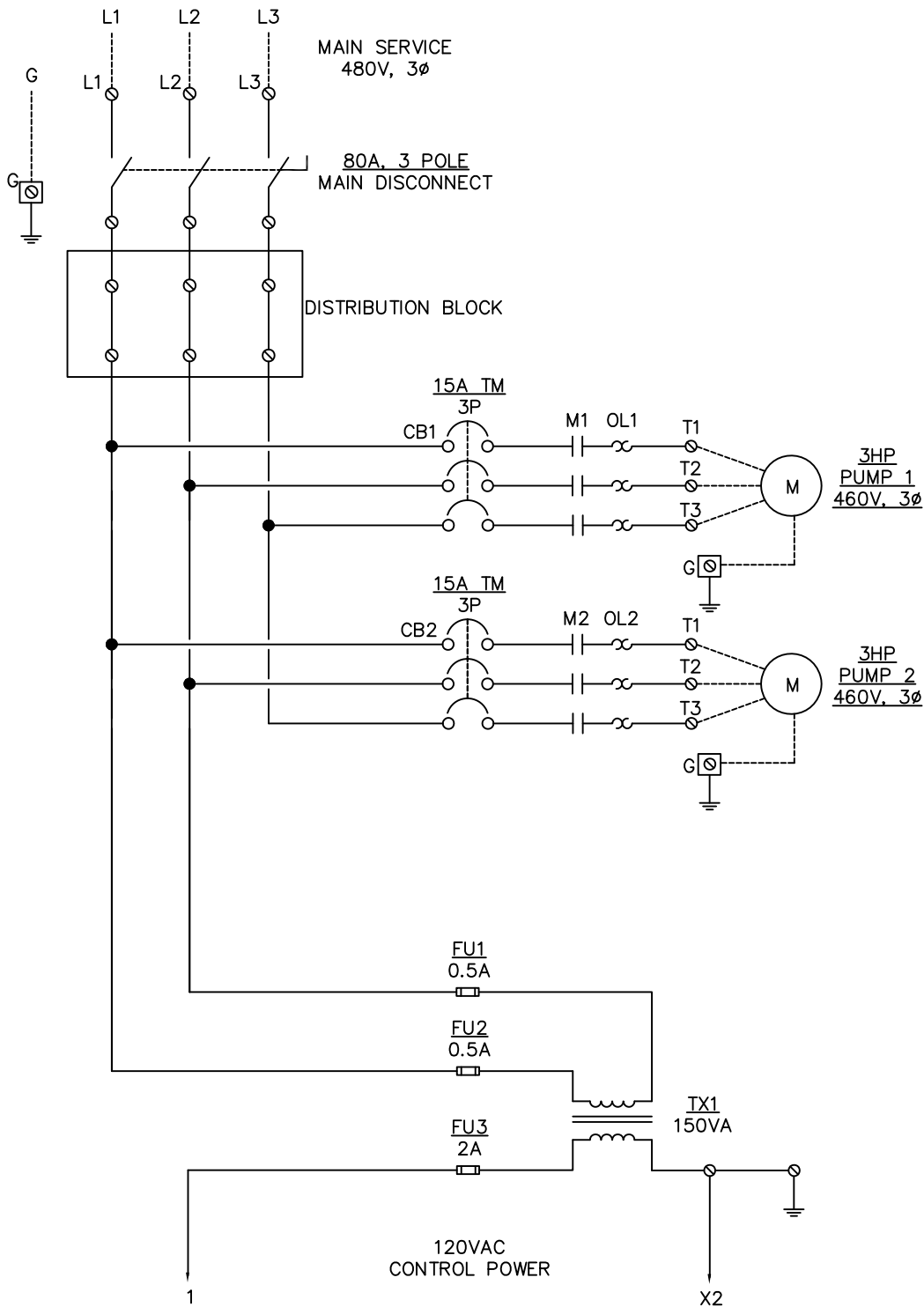
CP-2357

|                                  |            |  |
|----------------------------------|------------|--|
| CONTROL VOLTAGE                  | 120V       | (120V, Other)                                |
| ENCLOSURE                        | NEMA 4X    | (NEMA 1, NEMA 3R, NEMA 4, NEMA 4X)           |
| ENCLOSURE MATERIAL               | Fiberglass | (Painted Steel, Stainless Steel, Fiberglass) |
| CONTROL SENSOR                   | Floats     | (Floats, Bubbler, Other)                     |
| CAPACITORS                       | No         | (Yes, No)                                    |
| CAPACITOR WIRING FIGURE          | N/A        |  |
| THERM. & SEAL FAIL WIRING FIGURE |            |  |

|                                  |   |                            |
|----------------------------------|---|----------------------------|
| SEAL FAIL LIGHTS                 | X | (Submersible Only)         |
| SEAL FAIL RELAYS                 | X | (Submersible Only)         |
| SEAL FAIL PUMP SHUTDOWN          |   | (Submersible Only)         |
| HT PUMP SHUTDOWN                 | X | (Self-Primer, Submersible) |
| ALARM HORN                       |   |                            |
| ALARM LIGHT                      | X |                            |
| LIGHT PANEL MTD                  | X |                            |
| LIGHT REMOTE MTD                 |   |                            |
| LIGHT FLASHER                    |   |                            |
| LIGHTNING ARRESTER               |   |                            |
| ELAPSED TIME METER               |   |                            |
| PHASE MONITOR                    |   |                            |
| NEMA RATED STARTERS              |   |                            |
| GROUND FAULT RECPT.              |   |                            |
| GREEN RUN LIGHTS VS. RED         | X |                            |
| POLE, BOX, SEAL                  |   |                            |
| INTRINSICALLY SAFE RELAYS        |   |                            |
| HIGH TEMP. LOCKOUT, MANUAL RESET |   |                            |
| ECONOMY VERSION                  |   |                            |

SHIP TO: Delta Process - Denham Springs, LA  


---



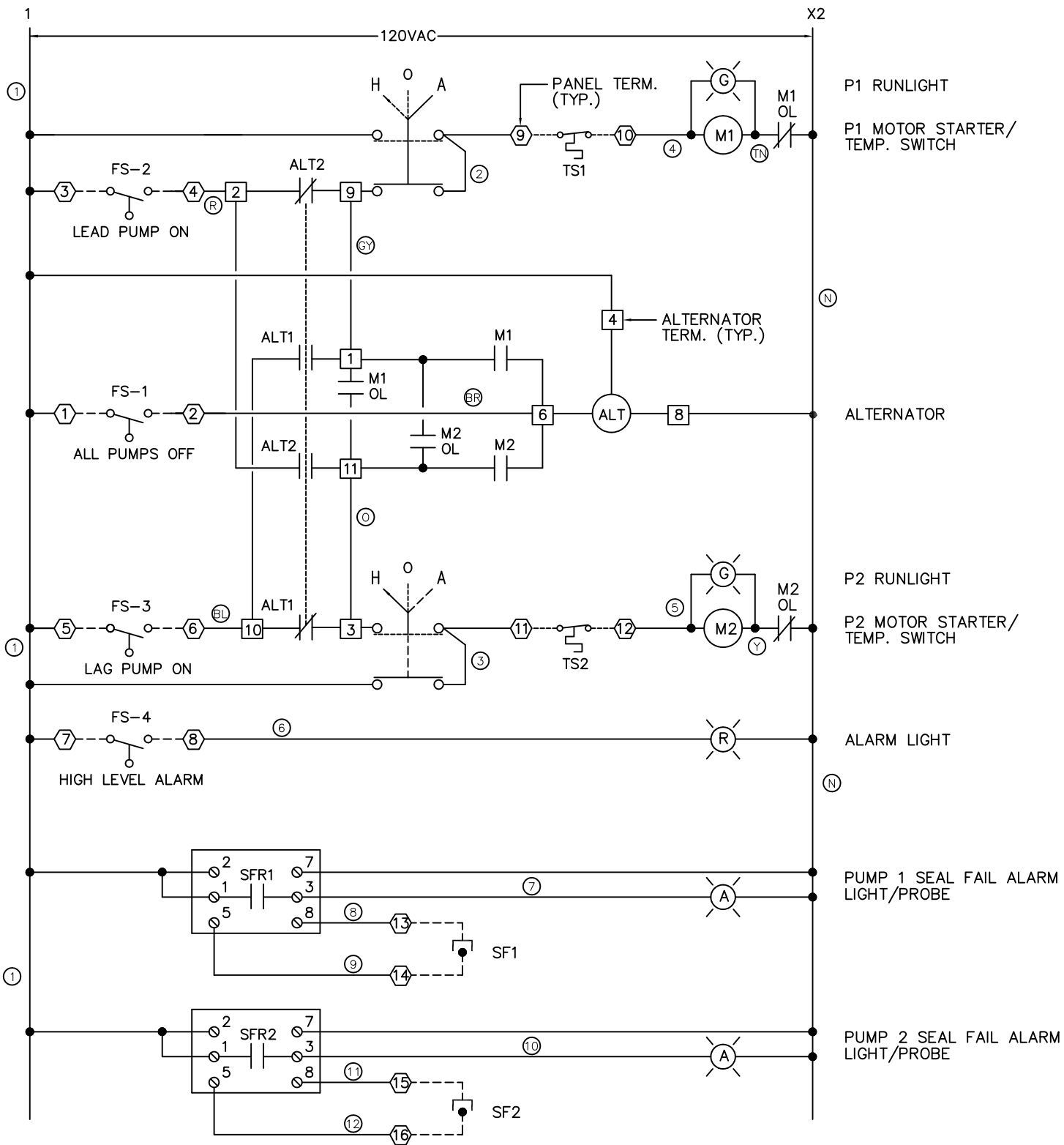
|                 |                              |                          |                               |   |              |      |    |                           |
|-----------------|------------------------------|--------------------------|-------------------------------|---|--------------|------|----|---------------------------|
|                 | Drawing Title                |                          |                               |   |              |      |    |                           |
|                 | POWER DIAGRAM                |                          |                               |   |              |      |    |                           |
| DATE<br>4/11/06 |                              | REFERENCE DRAWING<br>S/N | NO.<br>Sales Engineer<br>C.C. | REVISION-LOCATION<br>Application Engineer<br>R.C. | ECN          | DATE | BY | APPROVED                  |
|                 | Project Title                |                          |                               |   | BY C. RACHAL |      |    |                           |
|                 | DUPLEX PUMP<br>CONTROL PANEL |                          |                               |   |              |      |    | PURCHASE ORDER NUMBER     |
|                 |                              |                          |                               |   |              |      |    | DRAWING NUMBER<br>CP-2357 |
|                 |                              |                          |                               |   |              |      |    | SHEET NUMBER<br>2         |

**COX**

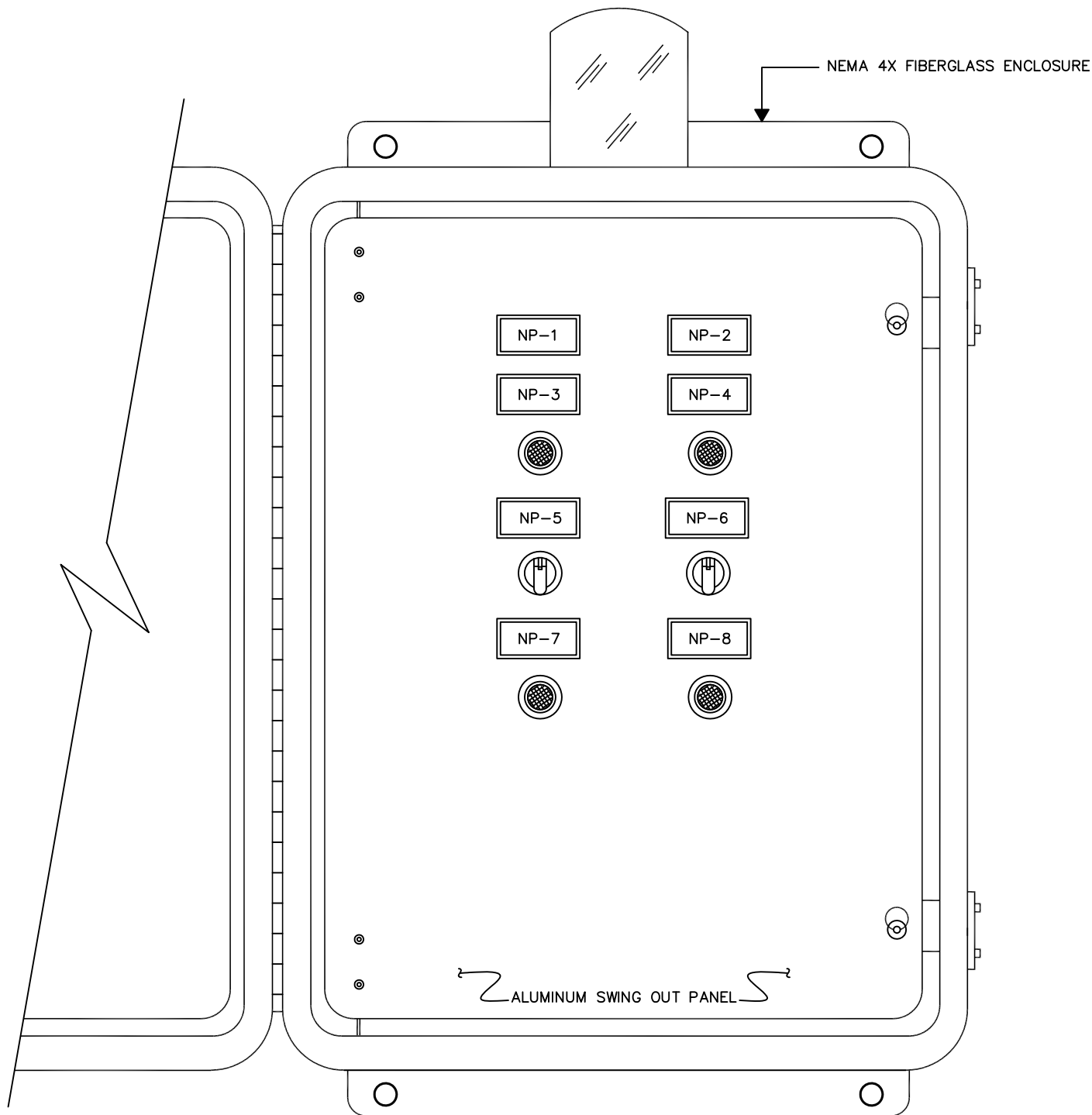
Research and Technology, Inc.

P.O. Box 77808  
Baton Rouge, LA  
70809

Ph. (225)756-3271  
Fax (225)755-1030



|                           |   |                        |   |  |                       |  |                   |                       |      |
|---------------------------|---|------------------------|---|--|-----------------------|--|-------------------|-----------------------|------|
|                           | Drawing Title<br><br><br><br>CONTROL DIAGRAM              |                        |   |  |                       |  |                   |                       |      |
|                           |   |                        |   |  |                       |  |                   |                       |      |
|                           |   |                        |   |  |                       |  |                   |                       |      |
| DATE<br>4/11/06           |   |                        | REFERENCE DRAWING                                       |  | NO.                   |  | REVISION-LOCATION |                       | ECN  |
|                           | S/N   | Sales Engineer<br>C.C. | Application Engineer<br>R.C.                            |  | DRAWN<br>BY C. RACHAL |  | APPROVED<br>BY    |                       | DATE |
|                           | Project Title<br><br><br><br>DUPLEX PUMP<br>CONTROL PANEL |                        | <div>COX</div> <div>Research and Technology, Inc.</div> |  |                       | P.O. Box 77808<br>Baton Rouge, LA<br>70809<br><br>Ph. (225)756-3271<br>Fax (225)755-1030 |                   | PURCHASE ORDER NUMBER |      |
| DRAWING NUMBER<br>CP-2357 |   |                        |   |  |                       |  |                   |                       |      |
| SHEET NUMBER              |   |                        |   |  |                       |  |                   |                       |      |
| 3                         |   |                        |   |  |                       |  |                   |                       |      |



VIEW OF SWING OUT PANEL

**NOTE:**  
SEWER GASSES WILL DESTROY COMPONENTS IN PANEL.  
PROPER SEALS MUST BE INSTALLED EXTERNAL TO THE  
PANEL TO PREVENT ENTRY OF GASSES.

**NAMEPLATE SCHEDULE**

|      |           |
|------|-----------|
| NP-1 | PUMP 1    |
| NP-2 | PUMP 2    |
| NP-3 | RUN       |
| NP-4 | RUN       |
| NP-5 | HOA       |
| NP-6 | HOA       |
| NP-7 | SEAL FAIL |
| NP-8 | SEAL FAIL |

|                 |   |  |   |                               |   |  |           |   |
|-----------------|---|--|---|-------------------------------|---|--|-----------|---|
|                 | Drawing Title<br><br>ENCLOSURE                    |  |   |                               |   |  |           |   |
|                 |   |  |   |                               |   |  |           |   |
|                 |   |  |   |                               |   |  |           |   |
| DATE<br>4/11/06 |   |  | REFERENCE DRAWING<br>S/N                                | NO.<br>Sales Engineer<br>C.C. | REVISION-LOCATION<br>Application Engineer<br>R.C. | DRAWN<br>BY C. RACHAL  | ECN<br>BY | DATE<br>DATE  |
|                 | Project Title<br><br>DUPLEX PUMP<br>CONTROL PANEL |  | <div>COX</div> <div>Research and Technology, Inc.</div> |                               |   | P.O. Box 77808<br>Baton Rouge, LA<br>70809<br><br>Ph. (225)756-3271<br>Fax (225)755-1030 |           | PURCHASE ORDER NUMBER<br><br>DRAWING NUMBER<br>CP-2357<br><br>SHEET NUMBER<br>4 |

## BILL OF MATERIALS

| ITEM | QTY | MANUFACTURER | PART NO.     | DESCRIPTION           |
|------|-----|--------------|--------------|-----------------------|
| 1    | 1   | STAHLIN      | RJ1816HPLDF  | ENCLOSURE             |
| 1a   | 1   | STAHLIN      | BP1816AL     | BACKPLATE             |
| 2    | 1   | MARATHON     | 1323580      | DISTRIBUTION BLOCK    |
| 3    | 2   | ABB          | A16-30-10-84 | MOTOR STARTER         |
| 4    | 2   | ABB          | TA25DU8.5    | O.L. RELAY (6.0-8.5A) |
| 5    | 2   | ABB          | T1N015TL     | CB1, CB2              |
| 6    | 1   | TIMEMARK     | 261DT120     | ALTERNATING RELAY     |
| 7    | 2   | ACI          | JR22FG       | GREEN PILOT LIGHT     |
| 8    | 2   | ACI          | JR22P3M20B   | HOA SWITCH            |
| 9    | 1   | ABB          | T4150PSF1    | TRANSFORMER           |
| 10   | 1   | AC/DC        | BL5-R-120    | ALARM LIGHT           |
| 11   | 1   | ABB          | OT63E3       | DISCONNECT SWITCH     |
| 12   | 2   | SSAC         | LLC54AA      | SEAL FAIL RELAY       |
| 13   | 2   | ACI          | JR22FY       | AMBER PILOT LIGHT     |
| 14   |     |              |              |                       |
| 15   |     |              |              |                       |
| 16   |     |              |              |                       |
| 17   |     |              |              |                       |
| 18   |     |              |              |                       |
| 19   |     |              |              |                       |
| 20   |     |              |              |                       |
| 21   |     |              |              |                       |
| 22   |     |              |              |                       |
| 23   |     |              |              |                       |
| 24   |     |              |              |                       |
| 25   |     |              |              |                       |

[illegible]