
COX

Research and Technology, Inc.

DUPLEX PUMP CONTROL PANEL LIFT STATION

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

| | | |
|----------------------------------|-------------|--|
| VOLTAGE | 120 | (480V, 277/480V, 240V, 120/240V, 208V, 120/208V) |
| PHASE/HZ | 1/60 | |
| NO. MOTORS | 2 | |
| HP | 1/2 | |
| FLA | 10.4A | |
| TYPE OF PUMP | Submersible | (Self-Priming, Submersible) |
| MANUFACTURER | | |
| CATALOG NUMBER | | |
| 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 | | (Yes, No) |
| CAPACITOR WIRING FIGURE | | |
| THERM. & SEAL FAIL WIRING FIGURE | | |

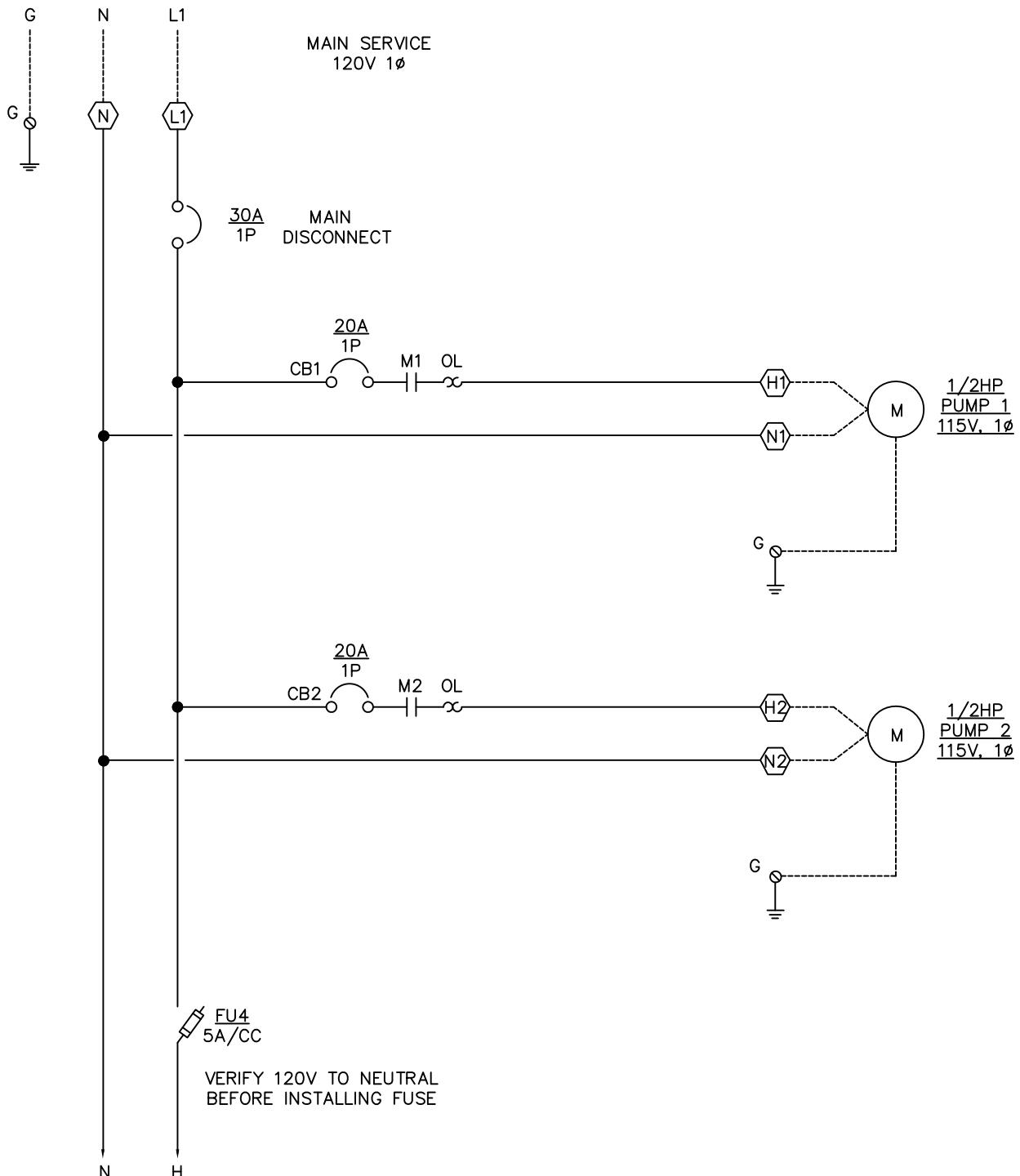
OPTIONS:

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

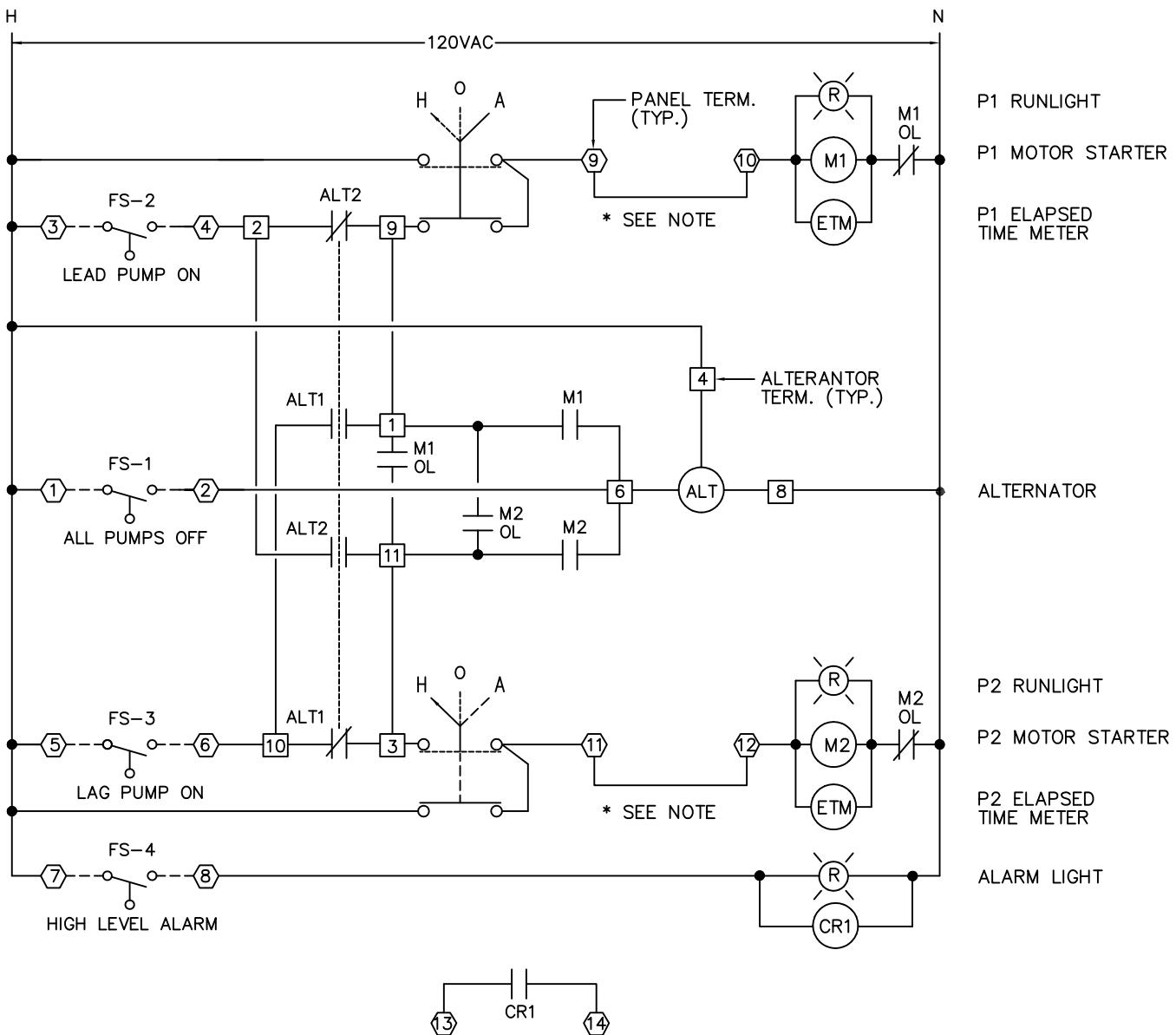
SOLD TO: Delta Environmental - Denham Springs, LA
TAG : Lift Station

SHIP TO: Delta Environmental - Denham Springs, LA

| | Drawing Title | | | | | | | |
|-----------------|---|---|----------------|--|-------------------|-----------------------|----------|------|
| | PANEL DESCRIPTION | | | | | | | |
| | | REFERENCE DRAWING | | NO. | REVISION-LOCATION | | ECN | DATE |
| | | S/N | Sales Engineer | Application Engineer | DRAWN | | APPROVED | BY |
| | | | C.C. | R.C. | BY CTR | | BY | DATE |
| DATE 5/22/02 | Project Title DUPLEX PUMP CONTROL PANEL | <u>COX</u> Research and Technology, Inc. | | P.O. Box 77808 Baton Rouge, LA 70809 | | PURCHASE ORDER NUMBER | | |
| | | | | | | DRAWING NUMBER | | |
| | | | | CP-1402 | | SHEET NUMBER | | |
| | | | | Fax (225)756-1030 | | 1 | | |



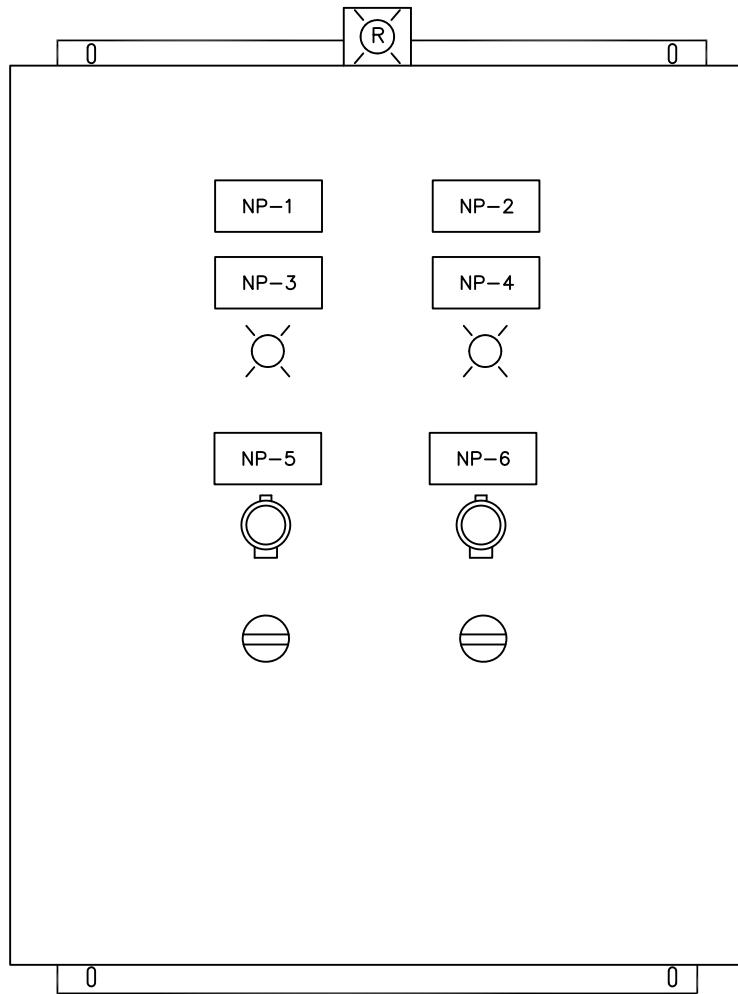
| | | | | | |
|---|---|--|--|---|-----------------------------|
| | Drawing Title POWER DIAGRAM | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| DATE 5/22/02 | REFERENCE DRAWING S/N | NO. Sales Engineer C.C. | REVISION-LOCATION DRAWN BY CTR | ECN | DATE APPROVED BY DATE |
| Project Title DUPLEX PUMP CONTROL PANEL | COX Research and Technology, Inc. | P.O. Box 77808 Baton Rouge, LA 70809 | Ph. (225)756-3271 Fax (225)756-1030 | PURCHASE ORDER NUMBER DRAWING NUMBER CP-1402 SHEET NUMBER 2 | |



DENOTES ALTERNATOR TERMINAL
 DENOTES PANEL TERMINAL
----- DENOTES FIELD WIRING

* REMOVE JUMPERS & INSTALL LOCKOUT DEVICES IF REQ'D

| | Drawing Title | | | | | | | | |
|-----------------|------------------------------|-------------------------------|------------------------|------------------------------|-------------------|-----------------------|---------|------|----|
| | CONTROL DIAGRAM | REFERENCE DRAWING | | NO. | REVISION-LOCATION | | ECN | DATE | BY |
| DATE 5/22/02 | | S/N | Sales Engineer C.C. | Application Engineer R.C. | DRAWN BY CTR | APPROVED BY DATE | | | |
| | Project Title | | | | | PURCHASE ORDER NUMBER | | | |
| | DUPLEX PUMP CONTROL PANEL | COX | | | | DRAWING NUMBER | CP-1402 | | |
| | | Research and Technology, Inc. | | | | SHEET NUMBER | 3 | | |



VIEW OF SWING OUT PANEL

NAMEPLATE SCHEDULE

| | |
|------|--------|
| NP-1 | PUMP 1 |
| NP-2 | PUMP 2 |
| NP-3 | RUN |
| NP-4 | RUN |
| NP-5 | HOA |
| NP-6 | HOA |

NOTE:

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

| | | | | | | |
|-----------------|------------------------------|--|----------------------|--------|-----------------------|------|
| | Drawing Title | | | | | |
| | ENCLOSURE | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | REFERENCE DRAWING | NO. | REVISION-LOCATION | ECN | DATE | BY |
| DATE 5/22/02 | S/N | Sales Engineer | Application Engineer | DRAWN | APPROVED | |
| | | C.C. | R.C. | BY CTR | BY | DATE |
| | Project Title | <hr/> <hr/> <hr/> COX <hr/> <hr/> | | | PURCHASE ORDER NUMBER | |
| | DUPLEX PUMP CONTROL PANEL | Research and Technology, Inc. | | | DRAWING NUMBER | |
| | | | | | CP1402 | |
| | | | | | SHEET NUMBER | |
| | | | | | 4 | |

BILL OF MATERIALS

| ITEM | QTY | MANUFACTURER | PART NO. | DESCRIPTION |
|------|-----|--------------|--------------|----------------------|
| 1 | 1 | STAHLIN | RJ1816HPLDF | ENCLOSURE |
| 1a | 1 | STAHLIN | BP1816AL | BACKPLATE |
| 2 | 1 | SQD | QUU130 | MAIN DISC. SWITCH |
| 3 | 2 | ABB | A16-30-10-84 | MOTOR STARTER |
| 4 | 2 | ABB | TA25DU11 | O.L. RELAY (7.5-11A) |
| 5 | 2 | SQUARE D | QUU120 | CB1, CB2 |
| 6 | 1 | TIMEMARK | 261DT120 | ALTERNATING RELAY |
| 7 | 2 | ACI | JR22FR | RED PILOT LIGHT |
| 8 | 2 | ACI | JR22P3M20B | HOA SWITCH |
| 9 | 1 | AC/DC | BL5-R-120 | ALARM LIGHT |
| 10 | 2 | REDINGTON | 711-0187 | ELAPSED TIME METER |
| 11 | 1 | MARATHON | 6SC30A1-I | FUSE HOLDER |
| 12 | | | | |
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| | Drawing Title BILL OF MATERIALS DATE 5/22/02 | | | | | |
| | | REFERENCE DRAWING | NO. | REVISION-LOCATION | ECN | DATE BY |
| | | S/N | Sales Engineer C.C. | Application Engineer R.C. | DRAWN BY CTR | APPROVED BY DATE |
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| | | | Ph. (225)756-3271 Fax (225)756-1030 | DRAWING NUMBER CP1402 | | |
| | | | | SHEET NUMBER 5 | | |