
COX

Research and Technology, Inc.

HILTON PASTURE DUPLEX PUMP CONTROL PANEL

FIELD REVISIONS

December, 2014

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

CP-2205R1

| | | |
|----------------------------------|-------------------------------|--|
| VOLTAGE | <u>277/480V</u> | (480V, 277/480V, 240V, 120/240V, 208V, 120/208V) |
| PHASE/HZ | <u>3/60</u> | |
| NO. MOTORS | <u>2</u> | |
| HP | <u>34</u> | |
| FLA | <u>41.8</u> | |
| TYPE OF PUMP | <u>Submersible</u> | (Self-Priming, Submersible) |
| MANUFACTURER | <u>GR</u> | |
| CATALOG NUMBER | <u>JS6E60-E34</u> | |
| CONTROL VOLTAGE | <u>120V</u> | (120V, Other) |
| ENCLOSURE | <u>NEMA 3R</u> | (NEMA 1, NEMA 3R, NEMA 4, NEMA 4X) |
| ENCLOSURE MATERIAL | <u>Painted Steel</u> | (Painted Steel, Stainless Steel, Fiberglass) |
| CONTROL SENSOR | <u>Submersible Transducer</u> | (Floats, Bubbler, Other) |
| CAPACITORS | <u>No</u> | (Yes, No) |
| CAPACITOR WIRING FIGURE | <u>N/A</u> | |
| THERM. & SEAL FAIL WIRING FIGURE | | |

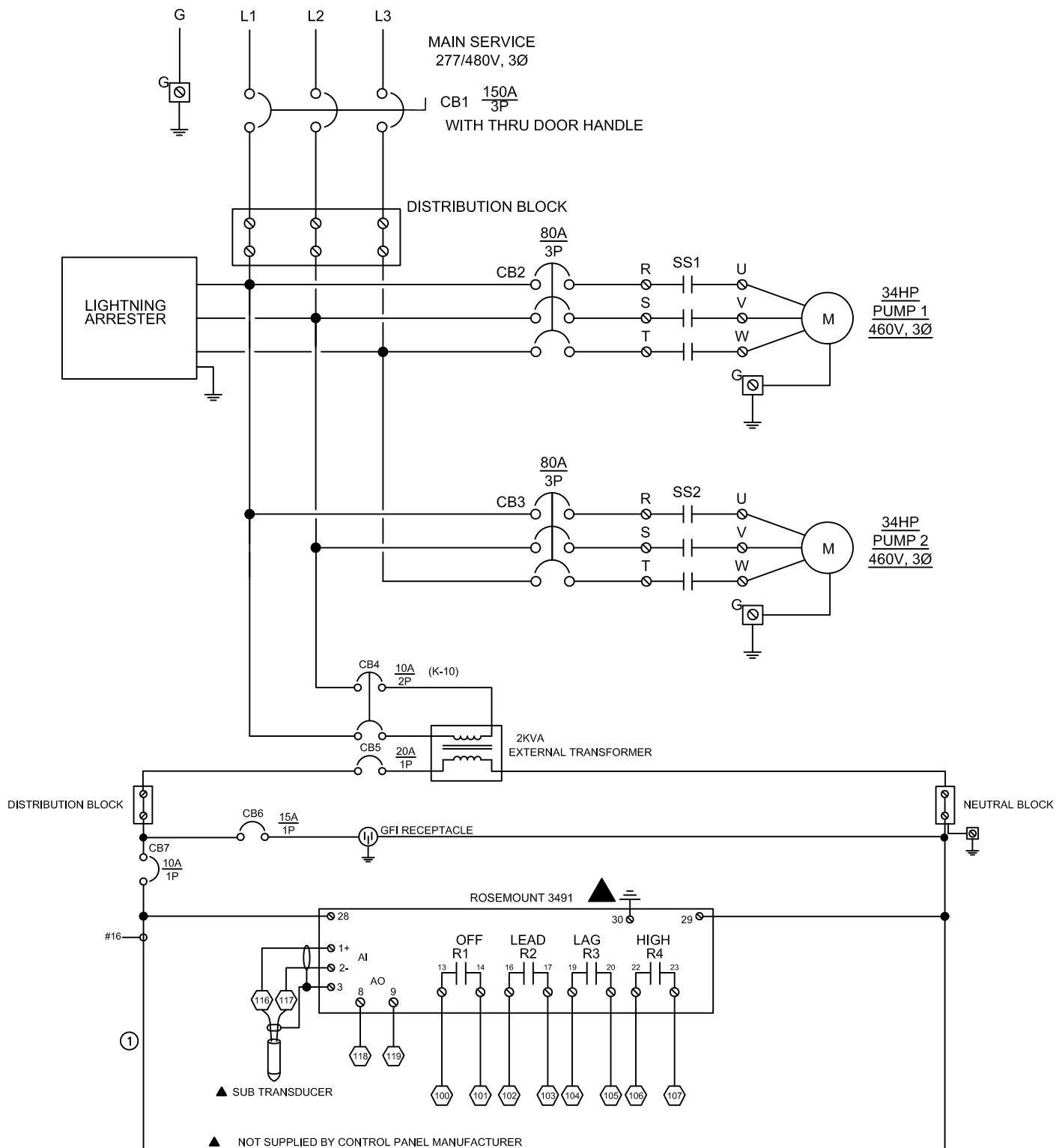
OPTIONS:

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

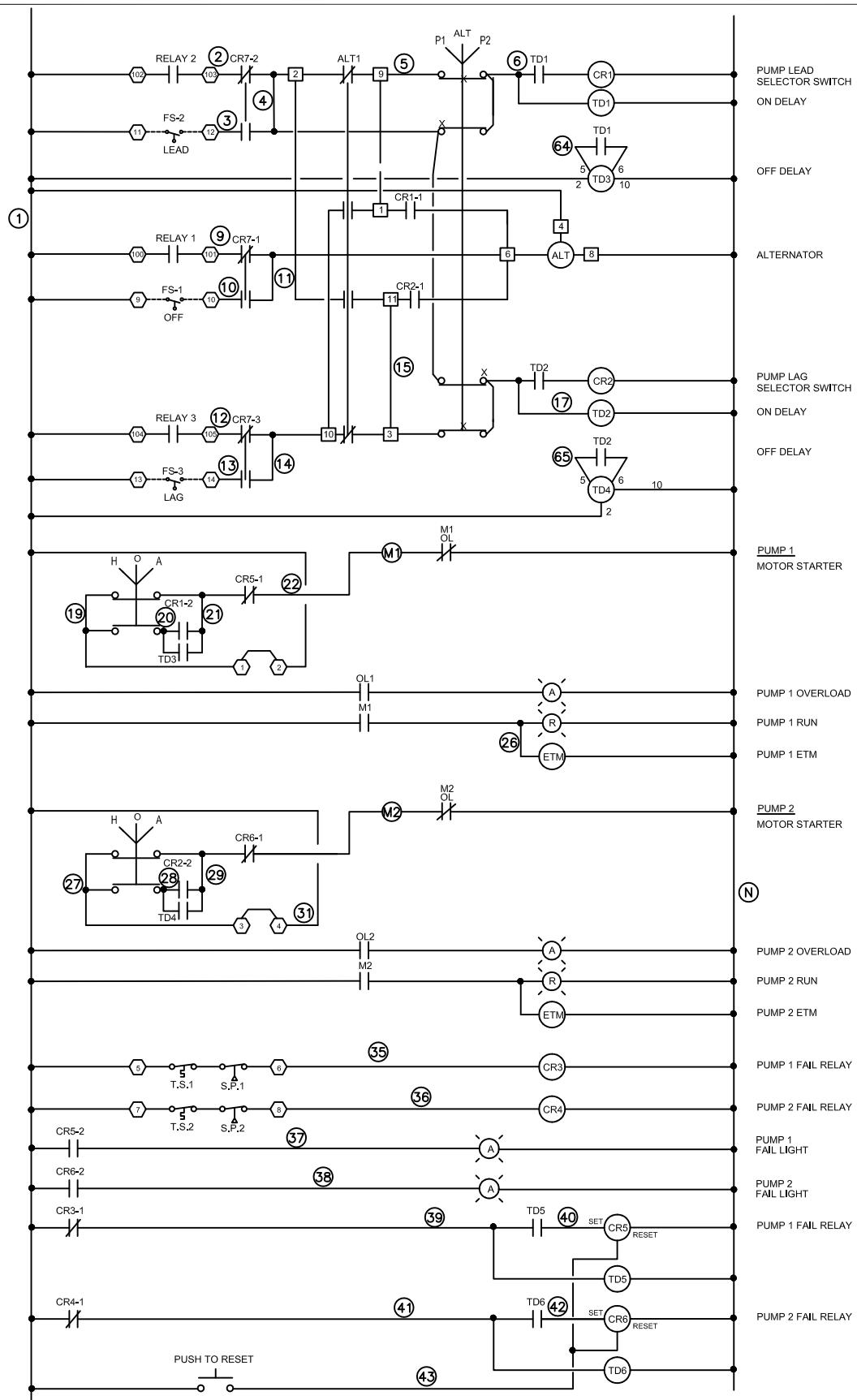
SOLD TO: Delta Process - Ruston, LA
TAG : Hilton Pasture

SHIP TO: Delta Process - Ruston, LA

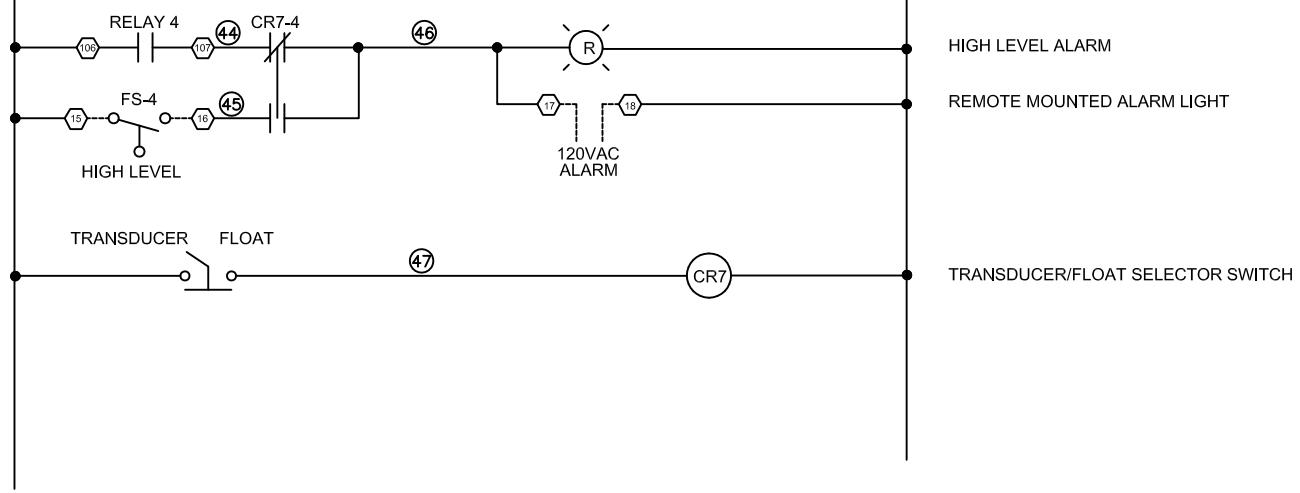
| Drawing Title | PANEL DESCRIPTION | 1 | | CHANGED CONTROLLER | 12/14 | |
|-----------------|---|---|----------------------|--|-----------------------------|---------|
| | | 1 | | LIGHTNING ARRESTER | 5/30/06 TL | |
| DATE 12/1/14 | REFERENCE DRAWING | NO. | REVISION-LOCATION | | ECN | DATE BY |
| | S/N | Sales Engineer | Application Engineer | DRAWN | APPROVED | |
| | | C.C. | R.C. | BY B.V. | BY | DATE |
| | Project Title DUPLEX PUMP CONTROL PANEL | <u>COX</u> Research and Technology, Inc. | | P.O. Box 77808 Baton Rouge, LA 70809 | PURCHASE ORDER NUMBER | |
| | | | | Ph. (225)756-3271 Fax (225)755-1030 | DRAWING NUMBER CP-2205R1 | |
| | | | | | SHEET NUMBER 1 | |



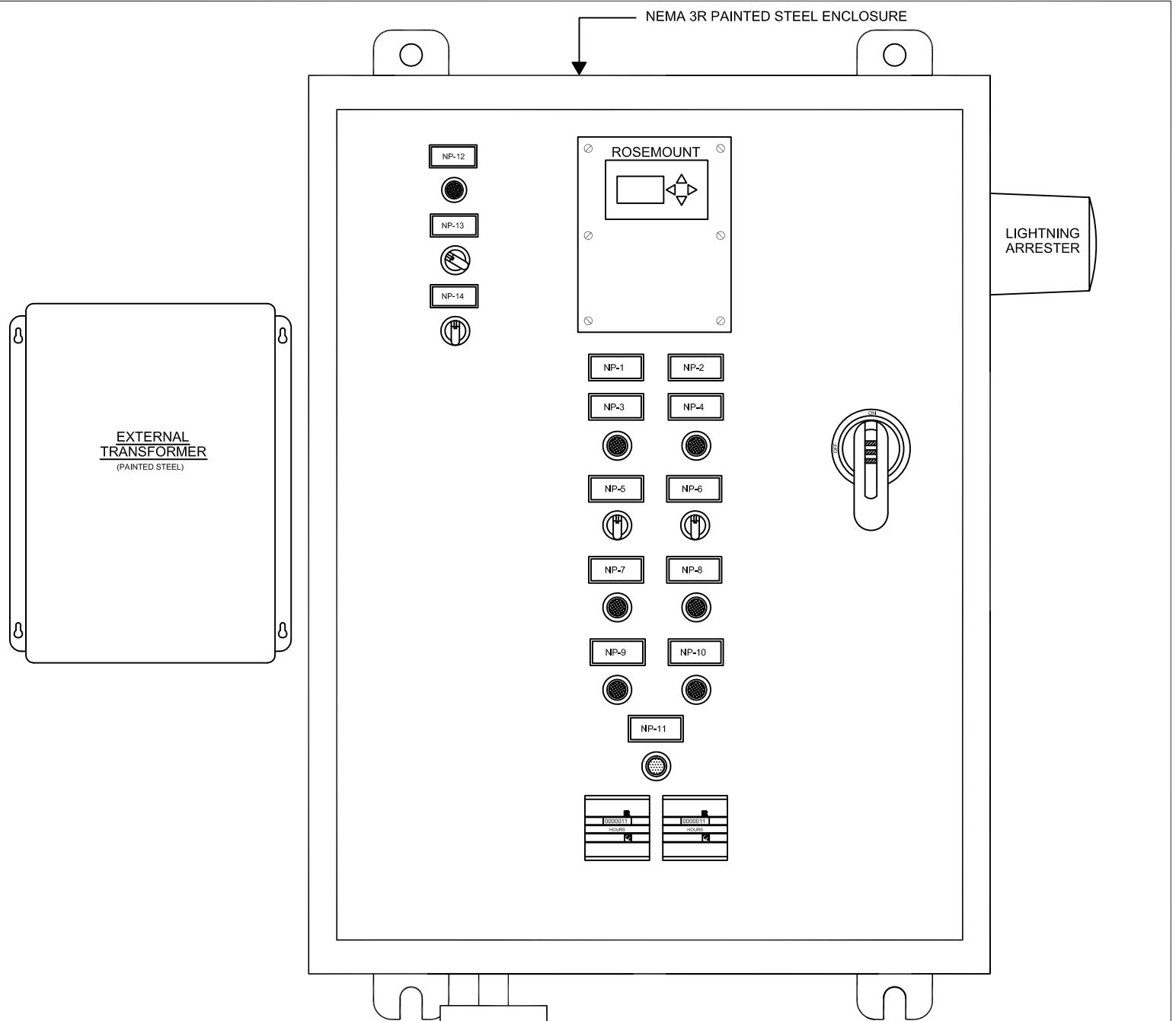
| | | | | | | | |
|-----------------|---|----------------|---|--------------------|--|-----------------------------|----|
| | Drawing Title POWER DIAGRAM | | 1 | CHANGED CONTROLLER | | 12/14 | |
| | | | 1 | LIGHTNING ARRESTER | | 5/30/06 | TL |
| | REFERENCE DRAWING | NO. | | REVISION-LOCATION | ECN | DATE | BY |
| DATE 12/1/14 | S/N | Sales Engineer | Application Engineer | DRAWN | | APPROVED | |
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| | | | | | | SHEET NUMBER 2 | |



| | Drawing Title CONTROL DIAGRAM | | | | | ECN | DATE | BY | | |
|-----------------|---|---|------------------------|--|--------------------|-----------------------|---------------------|----|--|--|
| | | 1 | CHANGED CONTROLLER | 1 | LIGHTNING ARRESTER | | | | | |
| DATE 12/1/14 | Project Title DUPLEX PUMP CONTROL PANEL | REFERENCE DRAWING | | NO. | REVISION-LOCATION | DRAWN BY B.V. | APPROVED BY DATE | | | |
| | | S/N | Sales Engineer C.C. | Application Engineer R.C. | | | | | | |
| | | COX Research and Technology, Inc. | | P.O. Box 77808 Baton Rouge, LA 70809 | | PURCHASE ORDER NUMBER | | | | |
| | | | | DRAWING NUMBER CP-2205R1 | | | | | | |
| | | | | SHEET NUMBER 3 | | | | | | |



| | | | | | | |
|-----------------|---|--|----------------------|---------|--|-----------------------------|
| | Drawing Title CONTROL DIAGRAM | | | | | |
| | | 1 | CHANGED CONTROLLER | | 12/14 | |
| | | 1 | LIGHTNING ARRESTER | | 5/30/06 | TL |
| | REFERENCE DRAWING | NO. | REVISION-LOCATION | ECN | DATE | BY |
| DATE 12/1/14 | S/N | Sales Engineer | Application Engineer | DRAWN | APPROVED | |
| | | C.C. | R.C. | BY B.V. | BY | DATE |
| | Project Title DUPLEX PUMP CONTROL PANEL | <hr/> COX <hr/> Research and Technology, Inc. <hr/> | | | P.O. Box 77808 Baton Rouge, LA 70809 | PURCHASE ORDER NUMBER |
| | | | | | Ph. (225)756-3271 Fax (225)755-1030 | DRAWING NUMBER CP-2205R1 |
| | | | | | | SHEET NUMBER 4 |



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

NAMEPLATE SCHEDULE

| | | | |
|------|----------|-------|-------------------|
| NP-1 | PUMP 1 | NP-9 | PUMP FAIL |
| NP-2 | PUMP 2 | NP-10 | PUMP FAIL |
| NP-3 | RUN | NP-11 | PUMP FAIL RESET |
| NP-4 | RUN | NP-12 | HIGH WATER |
| NP-5 | HOA | NP-13 | TRANSDUCER/FLOATS |
| NP-6 | HOA | NP-14 | P1-ALT-P2 |
| NP-7 | OVERLOAD | | |
| NP-8 | OVERLOAD | | |

| DATE 12/1/14 | Drawing Title ENCLOSURE | | | | | | |
|-----------------|-----------------------------------|---|--------------------|-------------------|---|------|----|
| | | 1 | CHANGED CONTROLLER | | 12/14 | | |
| | | 1 | LIGHTNING ARRESTER | | 5/30/06 | TL | |
| | | REFERENCE DRAWING | NO. | REVISION-LOCATION | ECN | DATE | BY |
| S/N | Sales Engineer | Application Engineer | DRAWN | | APPROVED | | |
| | C.C. | R.C. | BY B.V. | BY | DATE | | |
| Project Title | DUPLEX PUMP CONTROL PANEL | COX Research and Technology, Inc. | | | PURCHASE ORDER NUMBER DRAWING NUMBER CP-2205R1 SHEET NUMBER 5 | | |
| | | | | | | | |

BILL OF MATERIALS

| ITEM | QTY | MANUFACTURER | PART NO. | DESCRIPTION |
|------|-----|--------------|----------------|----------------------------|
| 1 | 1 | C & I | C-363016RHPL | ENCLOSURE |
| 1a | 1 | C & I | CI-3630P | BACKPLATE |
| 1a | 1 | C & I | CI-3630SPA | SWING PANEL |
| 2 | 1 | ABB | S3N150TW | MAIN DISC. SWITCH |
| 3 | 2 | ABB | A50N2-30-11-84 | CONTACTORS |
| 4 | 1 | A-B | 800H-HR2A | 2 POSITION SWITCH |
| 5 | 2 | ABB | T1N080TL | CB2,3 |
| 6 | 1 | SQUARE D | 2S1F | TRANSFORMER |
| 7 | 1 | TIMEMARK | 261DT120 | ALTERNATING RELAY |
| 8 | 3 | A-B | 800H-QR10R | RED PILOT LIGHT |
| 9 | 2 | A-B | 800H-JR2A | HOA SWITCH |
| 10 | 1 | ABB | K5-VDM | MECHANISM |
| 11 | 1 | ABB | OXP10X225 | SHAFT |
| 12 | 1 | ABB | OHB95J10 | HANDLE |
| 13 | 1 | BUSSMAN | 16332-3 | DISTRIBUTION BLOCK |
| 14 | 1 | ABB | S202UP-K10 | CB4 |
| 15 | 4 | A-B | 800H-QR10A | AMBER PILOT LIGHT |
| 16 | 2 | REDINGTON | 711-0190 | ELAPSED TIME METER |
| 17 | 2 | MAGNECRAFT | W388AMLCPX-9 | LATCHING RELAY |
| 18 | 1 | A-B | 800H-AR2A | PUSH BUTTON |
| 19 | 1 | ROSEMOUNT | 3491 | LIQUID LEVEL CONTROLLER |
| 20 | 5 | IDECK | RU4S-A110 | CR1,2,3,4,7 |
| 21 | 1 | SQUARE D | QOU115 | CB6 |
| 22 | 1 | STOCK | | GFI |
| 23 | 1 | SQUARE D | QOU120 | CB5 |
| 24 | 2 | MARATHON | 1321570 | DISTRIBUTION BLOCK |
| 25 | 1 | SQUARE D | QOU110 | CB7 |
| 26 | 4 | OMRON | H3YN2AC120 | TIME DELAY ON |
| 27 | 2 | DAYTON | 6X154 | TIME DELAY OFF |
| 28 | 1 | SQUARE D | 9001KS401B | 3 POSITION SWITCH |
| 29 | 1 | SQUARE D | 9001KA1 | CONTACT BLOCK |
| 30 | 1 | SQUARE D | 9001KA2 | CONTACT BLOCK |
| 31 | 1 | SQUARE D | 9001KA3 | CONTACT BLOCK |
| 32 | 1 | DELTA | LA603 | LIGHTNING ARRESTOR |
| 33 | 1 | IRL | | REMOTE MOUNTED ALARM LIGHT |
| 34 | 2 | ABB | TA75DU52 | OL 1, 2 |

| | | | | | | | |
|---|--|----------------------|---------|--------------------|---|---------|----|
| | Drawing Title BILL OF MATERIALS | | | | | | |
| | | | 1 | CHANGED CONTROLLER | | 12/14 | |
| DATE 12/1/14 | | | 1 | LIGHTNING ARRESTER | | 5/30/06 | TL |
| | REFERENCE DRAWING | | NO. | REVISION-LOCATION | ECN | DATE | BY |
| S/N | Sales Engineer | Application Engineer | DRAWN | APPROVED | | | |
| | C.C. | R.C. | BY B.V. | BY | DATE | | |
| Project Title DUPLEX PUMP CONTROL PANEL | COX Research and Technology, Inc. | | | | PURCHASE ORDER NUMBER DRAWING NUMBER CP-2205R1 SHEET NUMBER 6 | | |
| | | | | | | | |
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