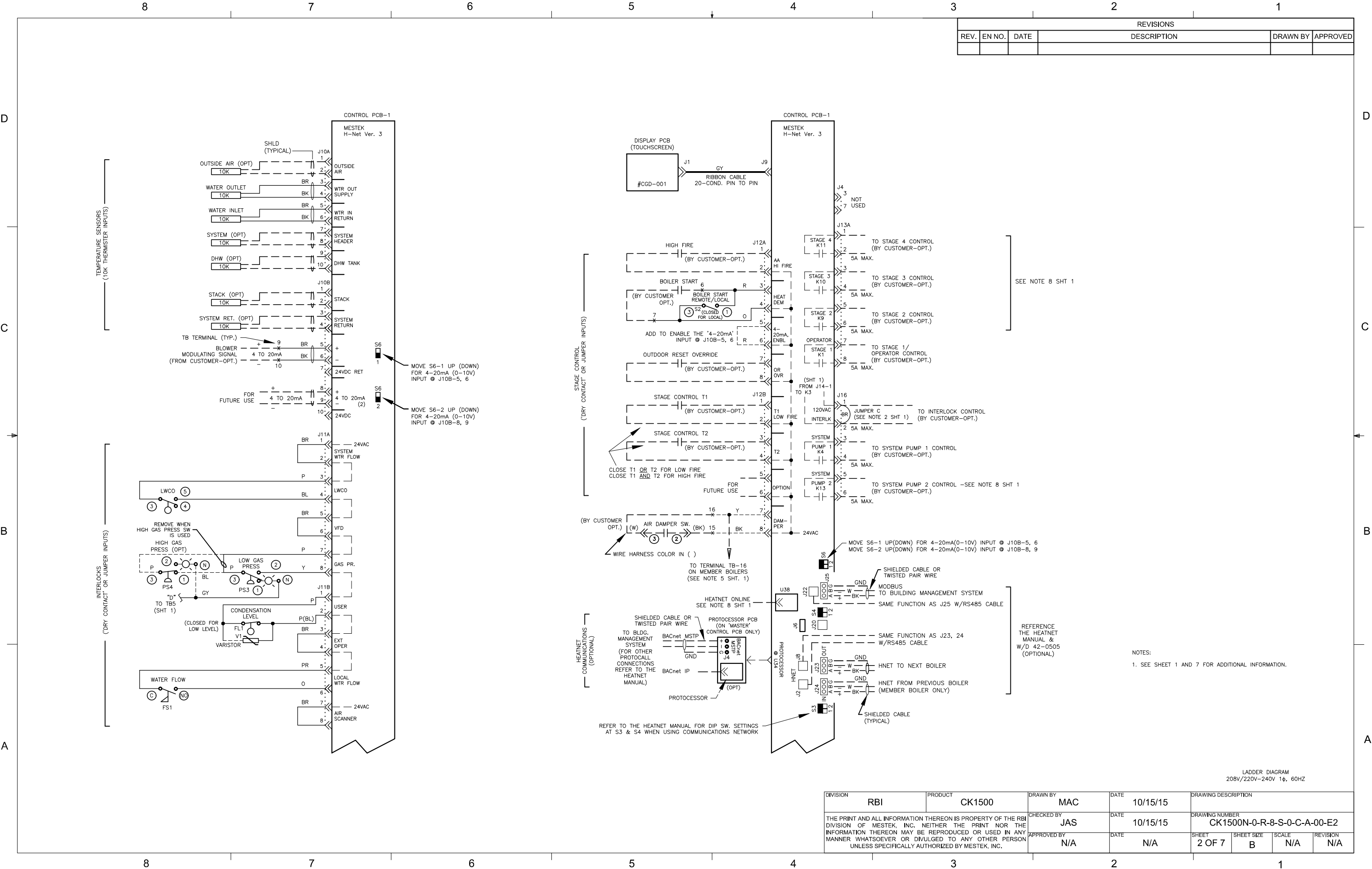
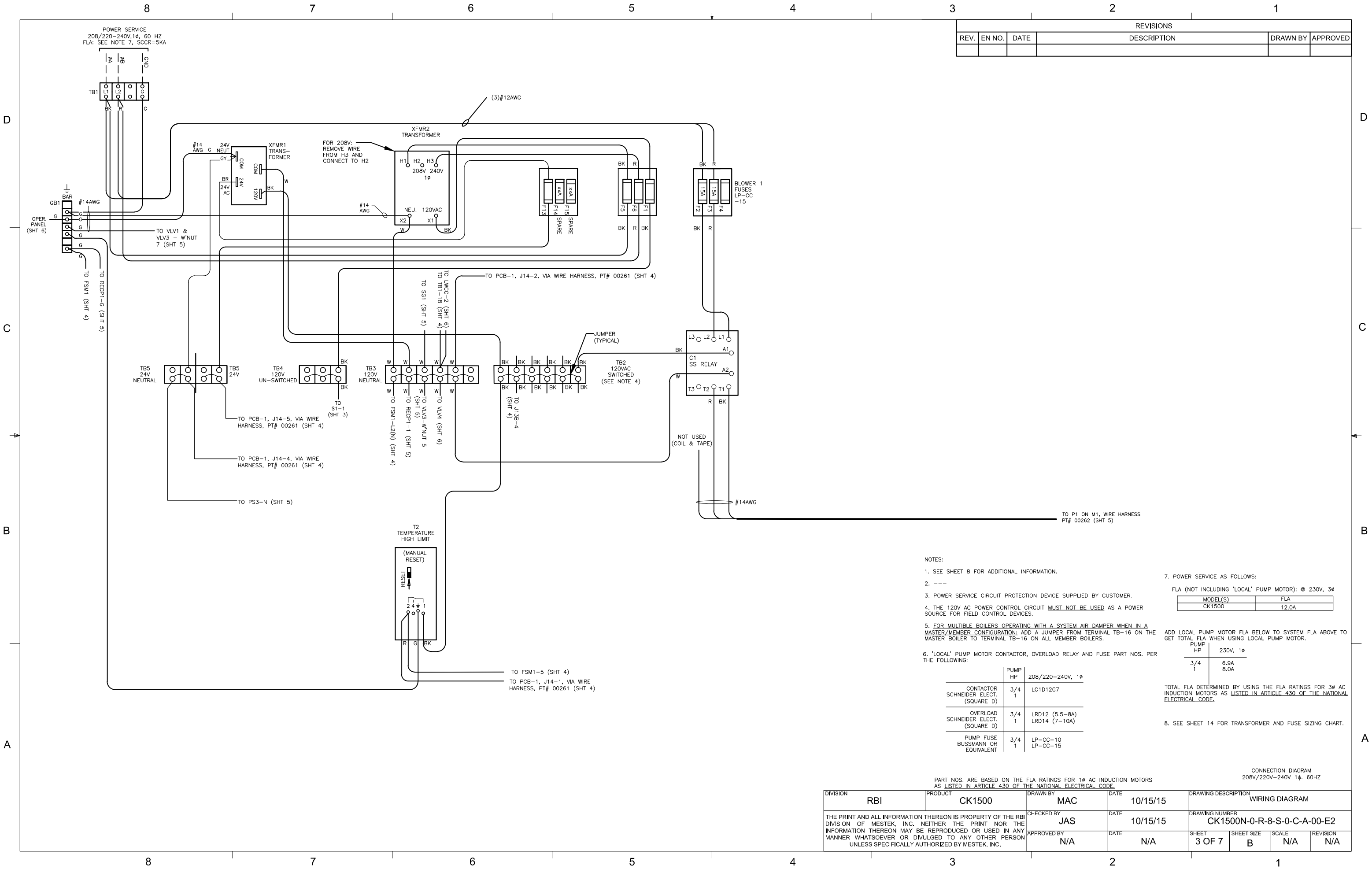
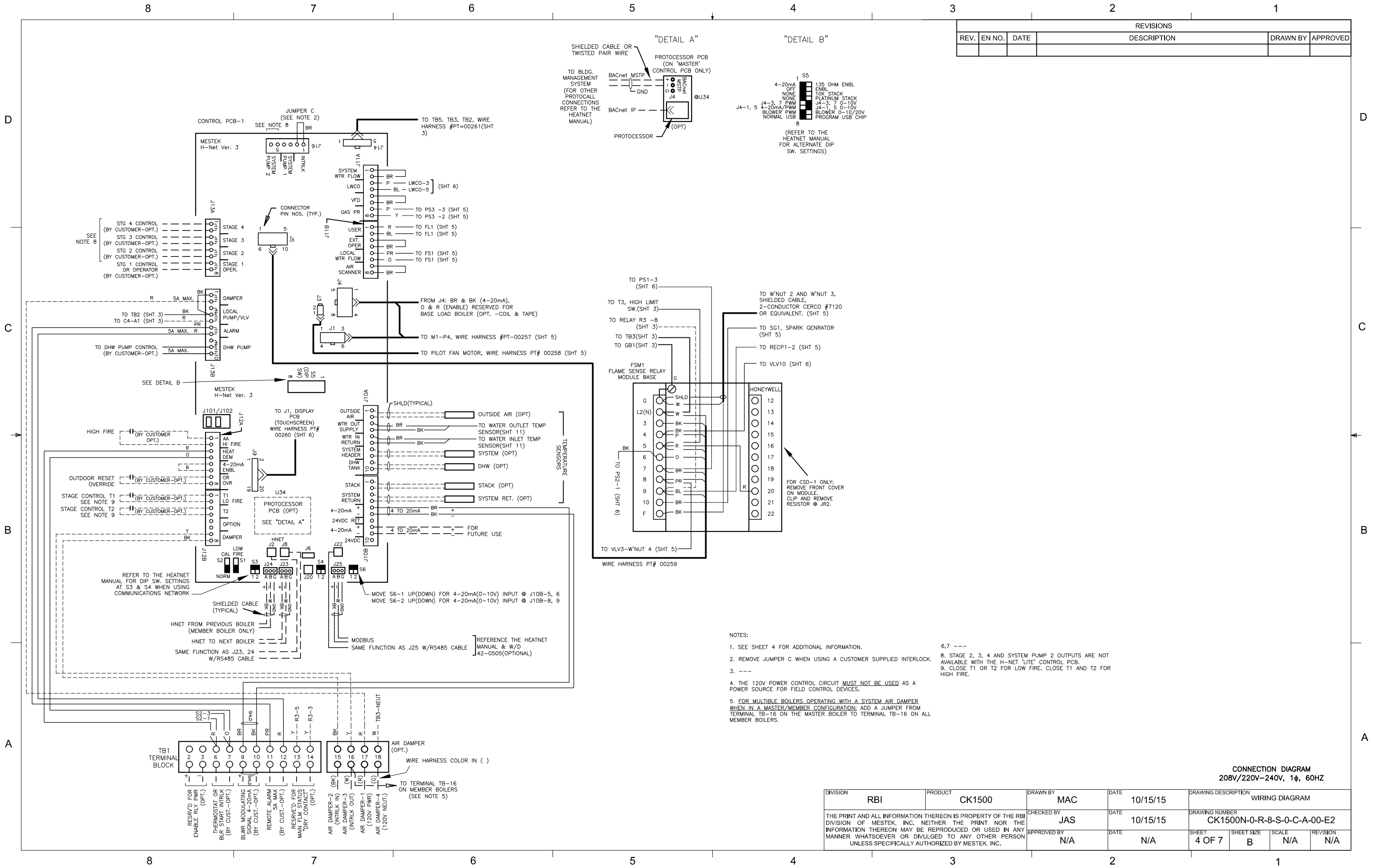
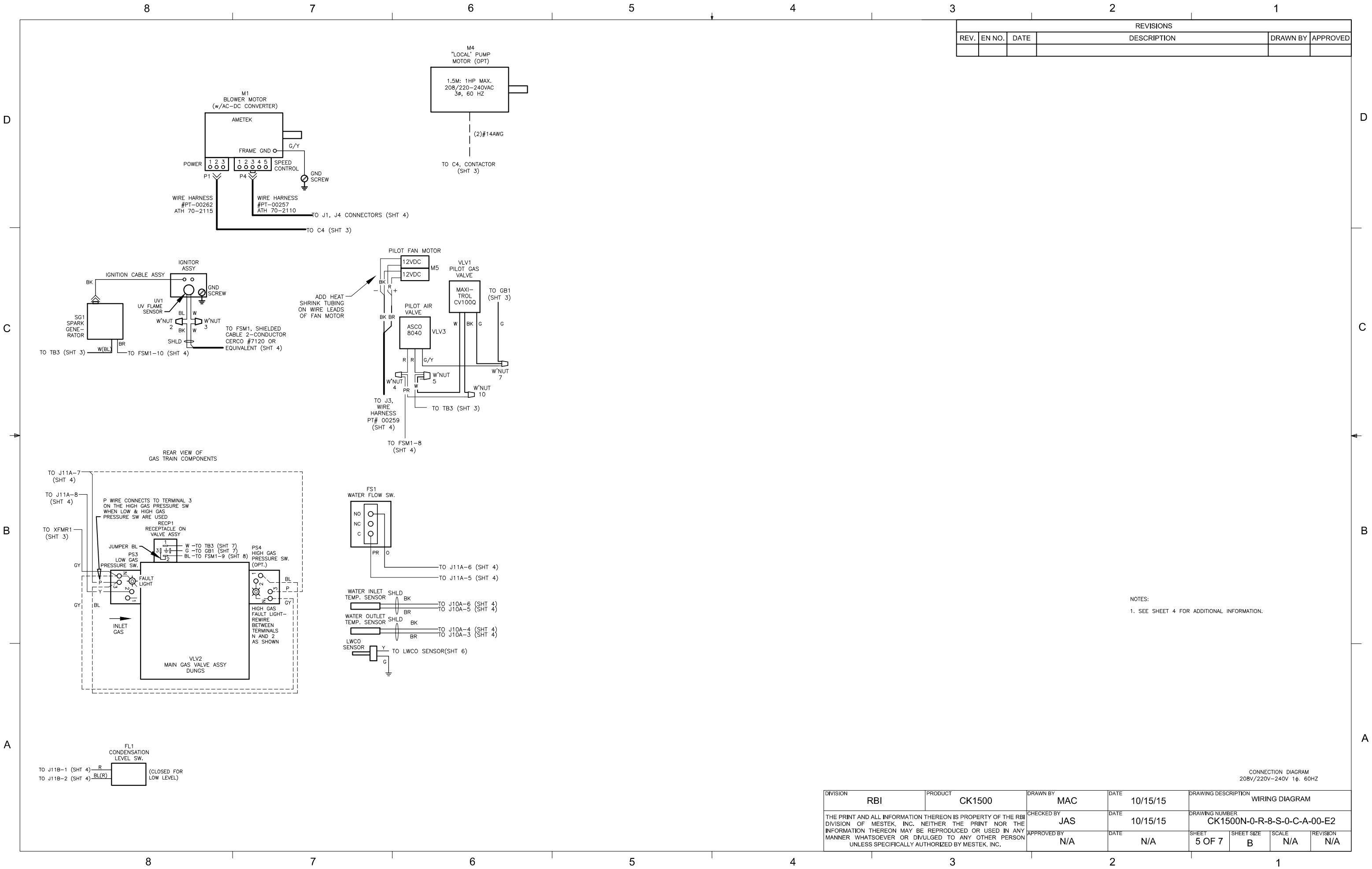






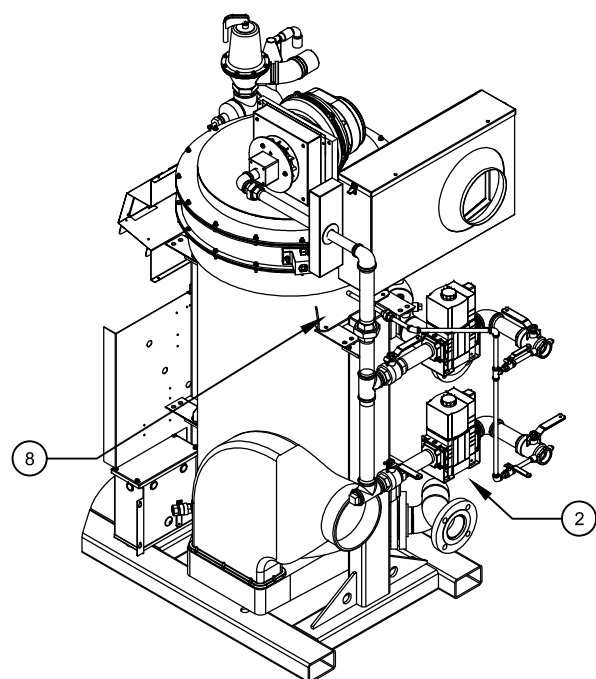
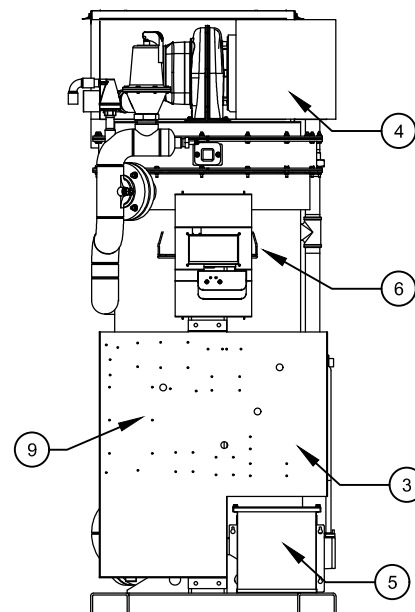
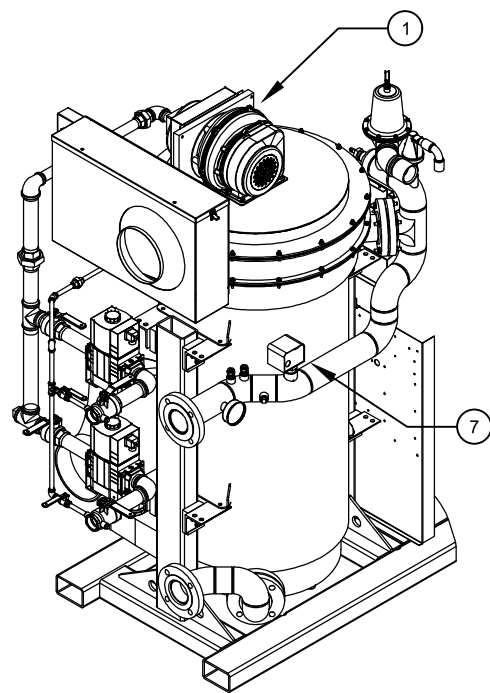












- 1 BLOWER MOTOR (M1)
- 2 MAIN GAS VALVE ASSEMBLY (VLV2)
- 3 MAIN ELECTRICAL CONTROL PANEL
- 4 UPPER PRESSURE SWITCH PANEL
- 5 TRANSFORMER (FOR 460V AND 575V UNITS ONLY)
- 6 OPERATOR PANEL
- 7 FLOW SWITCH (FS1)
- 8 SPARK GENERATOR (SG1) AND IGNITOR ASSEMBLY
- 9 H-NET CONTROL BOARD

| REVISIONS |        |      |             |          |          |
|-----------|--------|------|-------------|----------|----------|
| REV.      | EN NO. | DATE | DESCRIPTION | DRAWN BY | APPROVED |
|           |        |      |             |          |          |

NOTES:

1. WIRE COLOR CODE SHALL BE AS FOLLOWS:
- |           |          |          |         |
|-----------|----------|----------|---------|
| BK-BLACK  | R-RED    | BL-BLUE  | G-GREEN |
| W-WHITE   | P-PINK   | BR-BROWN | GY-GRAY |
| PR-PURPLE | Y-YELLOW | O-ORANGE |         |

WIRE CODE: \_\_\_\_\_ FACTORY WIRING  
 - - - - - FIELD WIRING  
 - - - - - OPTIONAL WIRING

ALL WIRES SHALL BE #18AWG UNLESS SPECIFIED. WIRE TYPE SHALL BE TEW, 600V, STRANDED 16x30, WITH INSULATION RATED FOR 105° OR EQUIVALENT.

USE CABLE TIES, CABLE FASTENERS, SPADE TERMINALS, MALE CONNECTORS, WIRENUTS, ETC. AS REQUIRED.

2. LINE VOLTAGE WIRE AND LOW VOLTAGE WIRE SHALL BE KEPT SEPARATE AS MUCH AS POSSIBLE
3. LINE VOLTAGE SHALL NEVER RUN PARALLEL TO LOW VOLTAGE OR THROUGH THE SAME KNOCKOUT. IF LOW VOLTAGE AND LINE VOLTAGE MUST PASS EACH OTHER THEY SHALL PASS PERPENDICULAR TO EACH OTHER.
4. DO NOT RUN ANY SIGNAL CABLE NEAR SPARK GENERATOR.

ABBREVIATION:

C# - CONTACTOR 1,2,3 (C1, C2, ...)  
 DHW - DOMESTIC HOT WATER  
 F# - FUSE 1,2,3 (F1, F2, ...)  
 FLA - FLOAT SWITCH 1,2,3 (FL1, FL2, ...)  
 FLA - FLOW LAMP  
 FS# - FLOW SWITCH 1,2,3 (FS1, FS2, ...)  
 FSM# - FLAME SENSE RELAY MODULE 1,2,3 (FSM1, FSM2, ...)  
 GB# - GROUND BAR 1,2,3 (GB1, GB2, ...)  
 IGN# - IGNITOR 1,2,3 (IGN1, IGN2, ...)  
 LT# - LIGHT 1,2,3 (LT1, LT2, ...)  
 LWCO - LOW WATER CUTOFF  
 OPT - OPTION  
 OL - OVERLOAD  
 M# - MOTOR 1,2,3 (M1, M2, ...)  
 PS# - PRESSURE SWITCH 1,2,3 (PS1, PS2, ...)  
 PWS# - POWER SUPPLY  
 S# - SWITCH 1,2,3 (S1, S2, ...)  
 SCRR - SHORT CIRCUIT CURRENT RATING  
 SG# - SPARK GENERATOR 1,2,3 (SG1, SG2, ...)  
 SHLD - SHIELDED CABLE  
 SS RELAY - SOLID STATE RELAY  
 TB# - TERMINAL BLOCK 1,2,3 (TB1, TB2, ...)  
 VL#V - VALVE 1,2,3 (VLV1, VLV2, ...)  
 XFMR# - TRANSFORMER 1,2,3 (XFMR1, XFMR2, ...)

### INFORMATION AND LAYOUT DIAGRAM

|                                                                                                                                                                                                                                                                       |     |         |         |             |     |      |          |                     |        |            |   |                |     |                             |     |  |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---------|---------|-------------|-----|------|----------|---------------------|--------|------------|---|----------------|-----|-----------------------------|-----|--|--|--|--|
| DIVISION                                                                                                                                                                                                                                                              | RBI | PRODUCT | CK 1500 | DRAWN BY    | MAC | DATE | 10/15/15 | DRAWING DESCRIPTION |        |            |   | WIRING DIAGRAM |     |                             |     |  |  |  |  |
| THE PRINT AND ALL INFORMATION THEREON IS PROPERTY OF THE RBI DIVISION OF MESTEK, INC. NEITHER THE PRINT NOR THE INFORMATION THEREON MAY BE REPRODUCED OR USED IN ANY MANNER WHATSOEVER OR DIVULGED TO ANY OTHER PERSON UNLESS SPECIFICALLY AUTHORIZED BY MESTEK, INC. |     |         |         | CHECKED BY  | JAS | DATE | 10/15/15 | DRAWING NUMBER      |        |            |   |                |     | CK1500N-0-R-8-S-0-C-A-00-E2 |     |  |  |  |  |
|                                                                                                                                                                                                                                                                       |     |         |         | APPROVED BY | N/A | DATE | N/A      | SHEET               | 7 OF 7 | SHEET SIZE | B | SCALE          | N/A | REVISION                    | N/A |  |  |  |  |
|                                                                                                                                                                                                                                                                       |     |         |         |             |     |      |          |                     |        |            |   |                |     |                             |     |  |  |  |  |