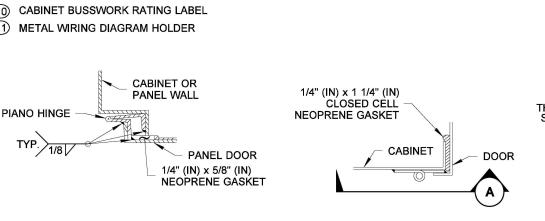


- TRANSFORMER SIDE DOOR WITH BEST CX 6-PIN LOCK CORE AND FOUR LOUVERED VENTS
- (2) CUSTOMER SIDE DOOR WITH BEST CX 6-PIN LOCK CORE
- PHOTOCELL ENCLOSURE ~ SEE PHOTOCELL MOUNTING DETAIL ~ ENCLOSURE SHALL BE FABRICATED FROM EITHER: A.5/8" (IN) EXPANDED STEEL MESH WITH WELDED SEAMS AND MOUNTING FLANGES ~ HOT-DIP GALVANIZED AFTER FABRICATION ~ OR ~ B.TYPE 5052 - H32 ALUMINUM WITH 5/8" (IN) x 5/8" (IN) OPENINGS EQUIVALENT TO 5/8" (IN) EXPANDED STEEL MESH
- PHOTOELECTRIC CONTROL ~ SEE STANDARD SPECIFICATION. **SECTION 9-29.11(2)**
- 1/4" (IN) DIAMETER DRAIN HOLE ~ DRILL BEFORE GALVANIZING
- MOUNTING HOLE ~ SEE STANDARD PLAN J-10.12 CABINET BRACKET MOUNTING DETAIL
- TRANSFORMER SECTION HINGED DEAD FRONT WITH FOUR LOUVERED VENTS. DEAD FRONT SHALL BE SECURED USING 1/4 TURN FASTENERS OR SLIDE LATCHES. DEAD FRONT SHALL INCLUDE A POWER SOURCE PHENOLIC LABEL (SEE NOTE 6)
- LOAD CENTER SECTION HINGED DEAD FRONT. DEAD FRONT SHALL BE SECURED WITH 1/4 TURN FASTENERS OR SLIDE LATCHES ~ DEAD FRONT PANEL BOLTS SHALL NOT EXTEND INTO VERTICAL LIMITS OF THE BREAKER ARRAY(S)
- ARC FLASH AND SHOCK HAZARD LABEL (FIELD INSTALLED) ~ SEE DETAIL (SHEET 2)

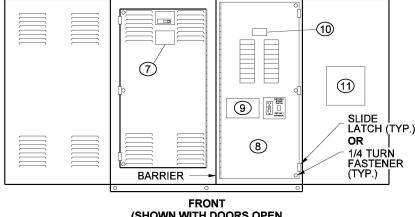


DOOR HINGE DETAIL

ALTERNATE TYPE B MODIFIED

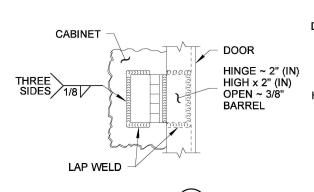
**CABINET (SEE NOTE 5)** 

DOOR HINGE DETAIL



(SHOWN WITH DOORS OPEN AND DEAD FRONT CLOSED)

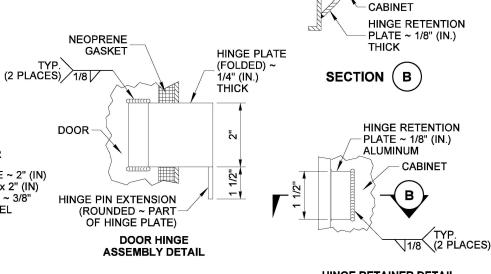
**SERVICE CABINET INTERIOR** 



SECTION

**NOTES** 

- 1. See Standard Specification Section 9-29.24 (Service Cabinets) and 9-29.25 (Amplifier, Transformer, and Terminal Cabinets).
- 2. Cabinet shall be rated NEMA 3R and shall include rain-tight vents as shown.
- Dimensions shown are minimum and shall be adjusted to accommodate the various sizes of equipment installed. A 1% tolerance is allowed for all dimensions.
- 4. Doors shall be pad-lockable and gasketed. Both doors shall include a Best CX 6-pin Construction core lock. Each door shall use three two-piece hinges, or two heavy-duty lift-off type hinges. Hinges shall not be accessible with the doors closed.
- 5. Hinges with pins shall have stainless steel or brass pins see door hinge details. When using two piece hinge type on galvanized enclosure, remove hinge pin prior to welding hinge to cabinet and prior to hot-dip galvanizing. After galvanizing, replace pin with brass pin and solder in place.
- 6. Transformer section dead front panel shall include a phenolic label attached with screws or rivets. The phenolic label shall read "SUPPLIED FROM SERVICE CABINET S?? ????". See Contract Plans for service cabinet S number.
- 7. Equipment identified by Key Numbers 14, 15, 16, 17, 18, 19, 20, 21, 22, and 25 shall have an appropriately engraved phenolic name plate attached with screws or rivets. The name plate for Key Number 22 (Test Switch only) shall read as follows: "PHOTOCELL BYPASS TEST ON" AND "PHOTOCELL TEST OFF - AUTOMATIC" (see test switch label detail).
- 8. All busswork shall be ASTM B187 copper and shall have a minimum rating of 125 amps. All breakers shall bolt on to the busswork. Jumpering of breakers is not allowed. Busswork shall accommodate all future equipment as shown in the Breaker Schedule.
- 9. All nuts, bolts, and washers used for mounting the photocell enclosure shall be stainless steel.
- 10. The photocell unit shall be centered in the photocell enclosure to permit 360 degree rotation of the photocell without removal of the photocell unit or the photocell enclosure.
- 11. All internal wire runs shall be identified with "TO FROM" coded tags labeled with the code letters and/or numbers shown on the Schedules. Approved PVC or polyolefin wire marking sleeves shall be used.
- See Contract for Breaker and Contactor Schedule.
- 13. Buss bars shall be sized to accommodate up to #4 AWG wires.
- 14. Cabinet shall support a maximum transformer size of 15 kVA and a maximum of one lighting circuit (one lighting contactor).



HINGE RETAINER DETAIL

DOOR HINGE DETAIL **HEAVY-DUTY (LIFT-OFF) TYPE** 



Aug 30, 2022

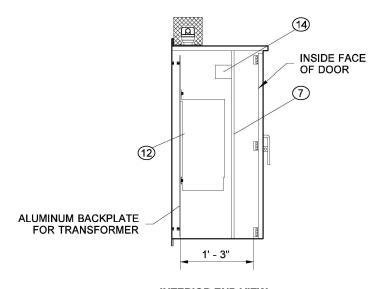
**TYPE BX TRANSFORMER** CABINET STANDARD PLAN J-10.26-00

SHEET 1 OF 2 SHEETS



## **KEY (CONTINUED)**

- (12) TRANSFORMER ON REMOVABLE ALUMINUM BACKPLATE
- 13 15" (IN) WIDE BY 36" (IN) TALL ALUMINUM BACKPLATE FOR CUSTOMER SIDE EQUIPMENT
- (14) TRANSFORMER PRIMARY SIDE BREAKER ~ DPST
- (15) 18-CIRCUIT PANEL BOARD WITH DPST BACK-FED MAIN BREAKER ~ SIZE MAIN PER BREAKER SCHEDULE
- (6) 20 KA TYPE 1 OR TYPE 2 SURGE PROTECTION DEVICE ~ DIN RAIL MOUNT WITH PLUG-IN MODULE(S)
- 17) DPST BRANCH BREAKER ~ SEE BREAKER SCHEDULE
- (18) SPARE BRANCH BREAKER ~ 20 AMP SPST ~ OMIT IF BREAKER ARRAY IS FULL (SEE BREAKER SCHEDULE)
- 19 SPST BRANCH BREAKER ~ SEE BREAKER SCHEDULE
- (20) RECEPTACLE BREAKER ~ SPST 20 AMP
- 21) PHOTOCELL BREAKER ~ SPST 15 AMP
- 22 GANG BOX WITH:
  A. RECEPTACLE (GROUNDED) ~ 125 VOLT 20 AMP GFCI
  B.TEST SWITCH ~ 120/277 VOLT 15 AMP SPDT SNAP
  ACTION POSITIVE CLOSE "T" RATED
  BOX MAY INCLUDE A COVER PLATE, OR MAY BE COVERED
  BY DEAD FRONT PANEL ~ GANG BOX SHALL BE WIRED TO
  THE CABINET BONDING JUMPER (KEY NUMBER 24)
- 23) ISOLATED NEUTRAL BUSS ~ 14 LUG COPPER (SEE NOTE 13)
- (24) CABINET MAIN BONDING JUMPER ASSEMBLY ~ BUSS SHALL BE 14 LUG TINNED COPPER (SEE NOTE 13) ~ SEE CABINET MAIN BONDING JUMPER ASSEMBLY DETAIL
- 25) CONTACTOR (BEHIND DEAD FRONT) ~ SEE BREAKER SCHEDULE
- (26) THREE POSITION DIN RAIL MOUNTED TERMINAL BLOCK ~ TERMINAL BLOCK SECTIONS SHALL BE BLACK, WHITE, AND RED AS SHOWN IN CABINET WIRING DIAGRAM.
- (27) CONNECTION TO GROUND ELECTRODE ~ SEE STANDARD PLAN J-60.05

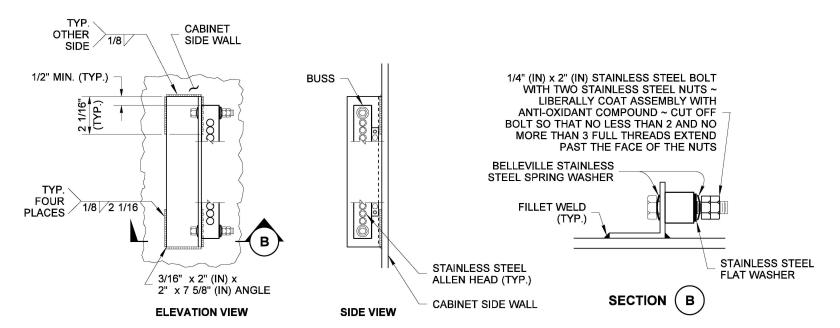


INTERIOR END VIEW TRANSFORMER SIDE

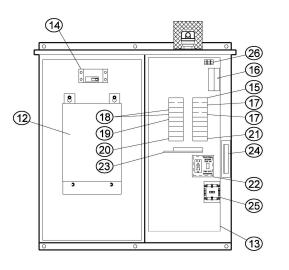


ARC FLASH AND SHOCK HAZARD LABEL DETAIL

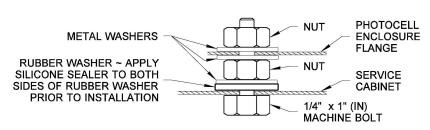
(9)



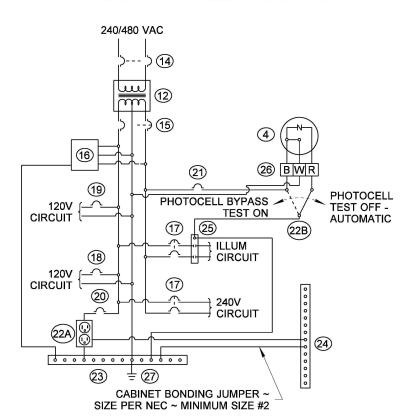
**CABINET MAIN BONDING JUMPER ASSEMBLY DETAIL** 



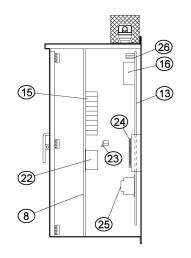
FRONT
(SHOWN WITH DEAD FRONT REMOVED)
SERVICE CABINET INTERIOR DETAIL



PHOTOCELL ENCLOSURE MOUNTING DETAIL



WIRING DIAGRAM



INTERIOR END VIEW LOAD CENTER SIDE (SUPPORT FRAMES FOR EQUIPMENT NOT SHOWN)



TEST SWITCH LABEL DETAIL

(22)



Aug 30, 2022

## TYPE BX TRANSFORMER CABINET STANDARD PLAN J-10.26-00

SHEET 2 OF 2 SHEETS

