KEY

1. METER SOCKET/BASE PANEL PER UTILITY REQUIREMENTS - UTILITY MAY REQUIRE METER TO BE INSTALLED ON THE OUTSIDE OF THE CABINET INSTEAD OF INSIDE THE UTILITY SIDE OF THE CABINET

2. UTILITY SIDE DOOR - HINGED FRONT FACING DOOR WITH 4" (IN) x 4" (IN) MINIMUM POLISHED SAFETY GLASS WINDOW

3. CUSTOMER SIDE DOOR WITH BEST CX 6-PIN LOCK CORE

4. 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

5. PHOTOELECTRIC CONTROL - SEE STANDARD SPECIFICATION, SECTION 9-29.11(2)

6. 1/4" (IN) DIAMETER DRAIN HOLE - DRILL BEFORE GALVANIZING

7. MOUNTING HOLE - SEE STANDARD PLAN J-10.12 CABINET BRACKET MOUNTING DETAIL

8. HINGED DEAD FRONT WITH 1/4 TURN FASTENERS OR SLIDE LATCHES - SLIDE FRONT PANEL BOLTS SHALL NOT EXTEND INTO VERTICAL LIMITS OF THE BREAKER ARRAY(S)

9. ARC FLASH AND SHOCK HAZARD LABEL (FIELD INSTALLED) - SEE DETAIL (SHEET 2)

10. CABINET BUSWIRE RATING LABEL

11. METAL WIRING DIAGRAM HOLDER

12. SERVICE CABINET DETAIL

NOTES

2. Cabinet shall be rated NEMA 3R and shall include two rain-tight vents.
3. 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. Customer side door shall include a Best CX 6-pin Construction core lock. Each door shall use either a continuous piano hinge, three two-piece hinges, or two heavy-duty lift-off type hinges.
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. Equipment identified by Key Numbers 14, 16, 17, 18, 19, 20, 21, 22, and 26 shall have an appropriately engraved phenolic name plate attached with screws or rivets. The name plate for Key Number 21 (Test Switch) only shall read as follows: "PHOTOCELL BYPASS TEST ON" AND "PHOTOCELL TEST OFF - AUTOMATIC." See service cabinet detail.
7. All busswork shall be ASTM B117 copper and shall have a minimum rating of 250 amps. All breakers shall bolt on to the busswork. Jumpering of breakers shall not be allowed. Busswork shall accommodate all future equipment as shown in the Breaker Schedule.
8. All nuts, bolts, and washers used for mounting the photocell enclosure shall be stainless steel.
9. 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.
10. 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.
11. See Contract for Breaker and Contactor Schedule.
12. Buss bars shall be sized to accommodate up to #4 AWG wires.
13. The meter base portion of this service was designed to meet metering portion of EUSRC Drawing 309 requirements.
14. Metering arrangements vary with different serving Utilities. The Utility may require meter base mounting in the enclosure, on the side, or on the back of the enclosure. The Utility may require the dimension between the door and the front of the safety socket box to be less than the 11" (in) shown in the Left Side - Safety Socket Box Mounting Detail. The Contractor shall verify the serving Utility’s requirements prior to fabrication and installation of the service equipment.
15. Verify the meter setback position with the utility and adjust the meter socket backplate to the required position. For cabinets with separate metering, remove the meter socket or install shunts in the meter socket.
KEY (CONTINUED)

12. ALUMINUM BACKPLATE FOR METER SOCKET/BASE
13. 15" (IN) WIDE BY 36" (IN) TALL ALUMINUM BACKPLATE FOR CUSTOMER SIDE EQUIPMENT
14. MAINT BREAKER - DPST - SIZE PER BREAKER SCHEDULE
15. 18-CIRCUIT PANEL BOARD - MINIMUM SIZE WITH SEPARATE MAIN BREAKER
16. 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 DPST - 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. 2 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 BUS - 14 LUG COPPER (SEE NOTE 12)
24. CABINET MAIN BONDING JUMPER ASSEMBLY - BUSS SHALL BE 1/2" MIN. (TYP.) SIDE WALL 1/2" MIN. (TYP.)
   TYP. STAINLESS STEEL FLAT WASHER
   TYP. STAINLESS STEEL SPIRAL WASHER
25. CONTACOR (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

SERVICES CABINET TYPE B
MODIFIED (0 TO 200 AMP TYPE 120/240 VOLT SINGLE PHASE)

WASHINGTON STATE DEPARTMENT OF TRANSPORTATION

STATE DESIGN ENGINEER: FERN LIDDELL

Aug 18, 2021

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SHEET 2 OF 2 SHEETS