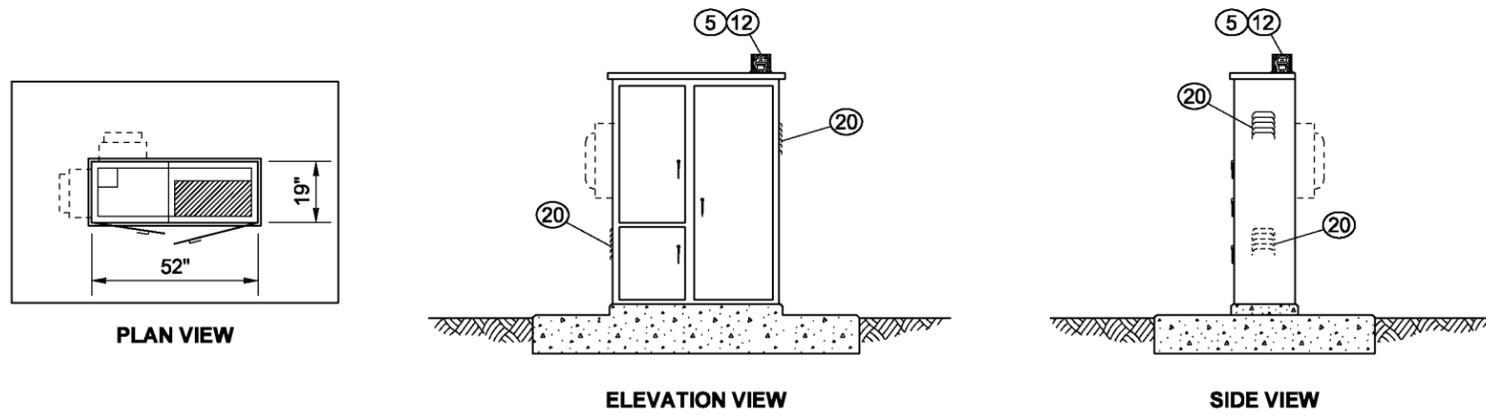
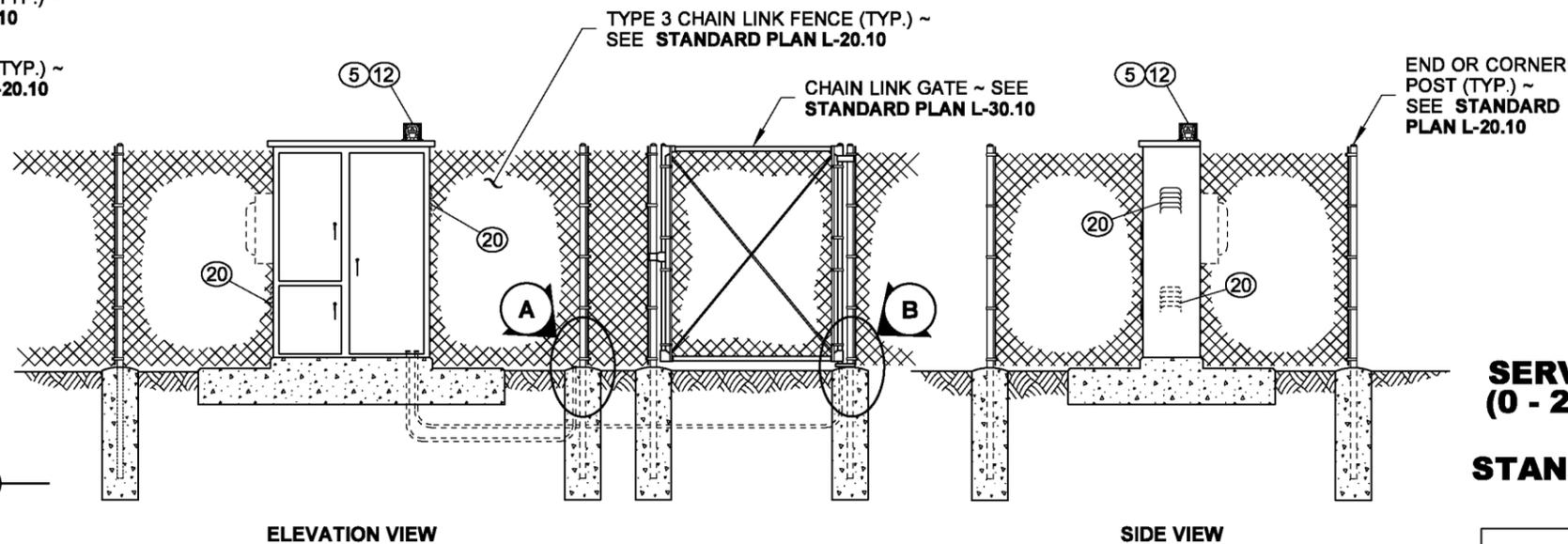
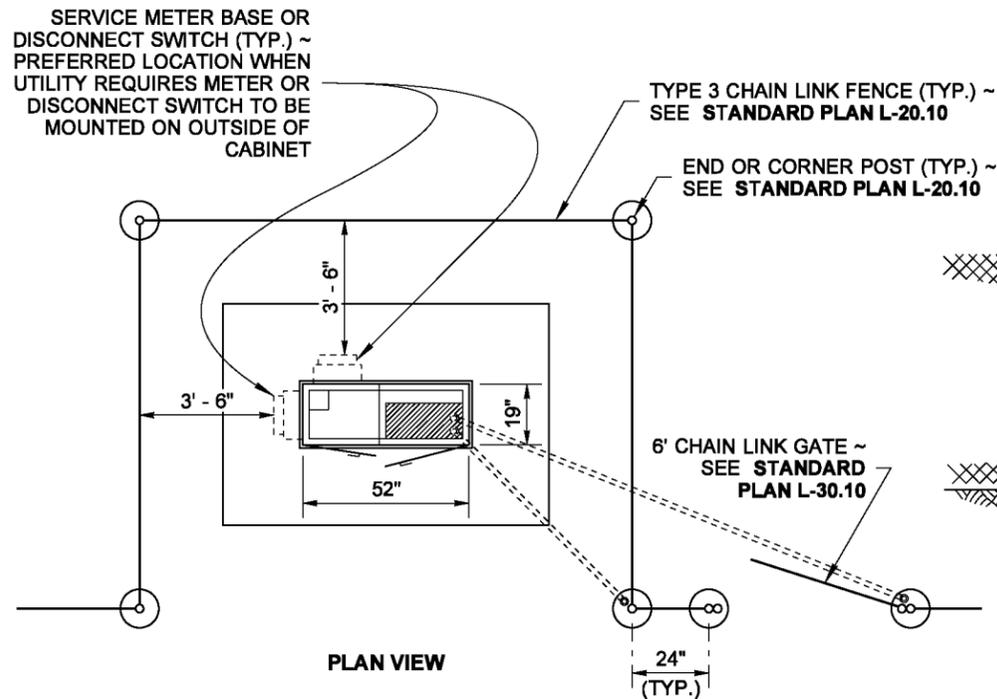
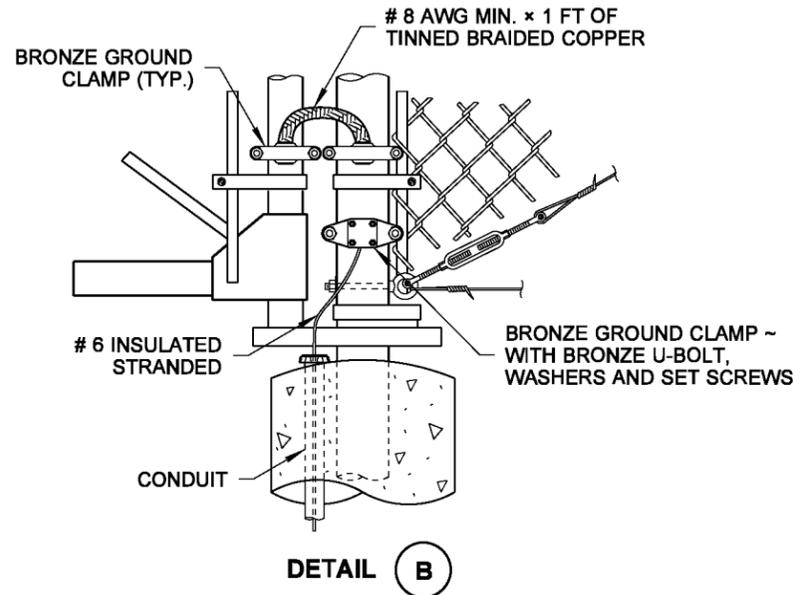
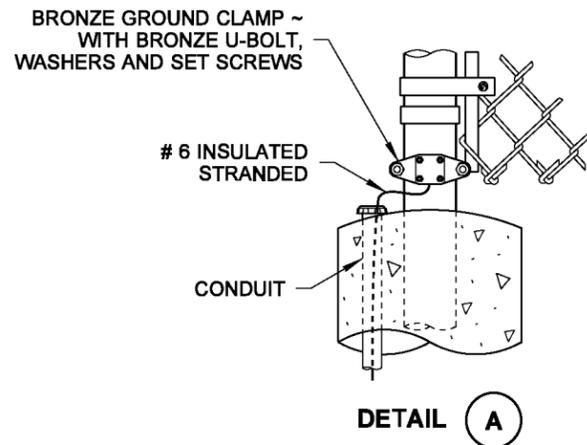


DRAWN BY: LISA CYFORD



SERVICE CABINET INSIDE RIGHT-OF-WAY

INSTALL FOUNDATION AS SLAB SECTION UNLESS IDENTIFIED FOR CONSTRUCTION IN FENCE LINE IN CONTRACT PLANS



SERVICE CABINET WITHIN RIGHT-OF-WAY FENCE

FOR CONDUITS NOT SHOWN, DRAIN TILE FOR GROUNDING, DRAIN TUBES, REINFORCING STEEL, ETC. OMITTED FOR CLARITY, SEE STANDARD PLAN J-10.10 FOR DETAILS.

NOTES

1. Metering Arrangements vary with different servicing 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" shown in the left side safety socket box mounting detail, see **Standard Plan J-3b**. The Contractor shall verify the serving utility's requirements prior to fabrication of and installing the service equipment.
2. The requirement for a disconnect switch ahead of the Meter varies with different servicing utilities. The Contractor shall verify the serving utilities requirements prior to fabrication and installing the service equipment.
3. See **Standard Specification 9-29.24, Service Cabinets**.
4. Hinges shall have stainless steel or brass pins.
5. Cabinets shall be rated NEMA 3R and shall include two rain tight vents.
6. Metering equipment doors shall be pad lockable. Each door shall be gasketed. Install best construction core on bottom left and right doors. See door hinge detail, **Standard Plan J-3b**. Concealed heavy duty stainless steel lift off hinges are allowed as an alternative. Upper left door shall have 3 hinges, lower left door shall have 2 hinges, and right door shall have 3 hinges. All doors shall have a two position door stop assembly.
7. The following equipment within the service enclosure shall have an appropriately engraved phenolic name plate attached with screws or rivets: Key number 2, 3, 4, 6, 7, 8, 9, 16, 21 and 24. Key number 4 name plate shall read: "Photocell Bypass Test On" and "Photocell Test Off-Automatic". See Service Cabinet detail.
8. The dimensions shown are minimum and shall be adjusted to accommodate the various sizes of equipment installed.
9. All busswork shall be high grade copper and shall equal or exceed the main breaker rating. All breakers shall bolt onto the busswork. Jumpering of breakers shall not be allowed. Busswork shall accommodate all future equipment as shown in the breaker schedule.
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.
12. All nuts, bolts, and washers used for mounting photocell enclosure shall be stainless steel.
13. A 1% tolerance is allowed for all dimensions.
14. See plans for breaker schedule.
15. Install conduit couplings on all conduits. Place couplings flush with top of concrete foundation.
16. Seal cabinet to foundation with a 1/2" bead of silicone. Apply silicone to dry surface only.
17. The meter base portion of this service was designed to meet metering portion of Euserc Drawing 309 requirements.



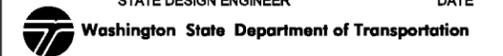
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**SERVICE CABINET TYPE E
(0 - 200 AMP TYPE 240/480
SINGLE PHASE
STANDARD PLAN J-10.22-00**

SHEET 1 OF 2 SHEETS

APPROVED FOR PUBLICATION

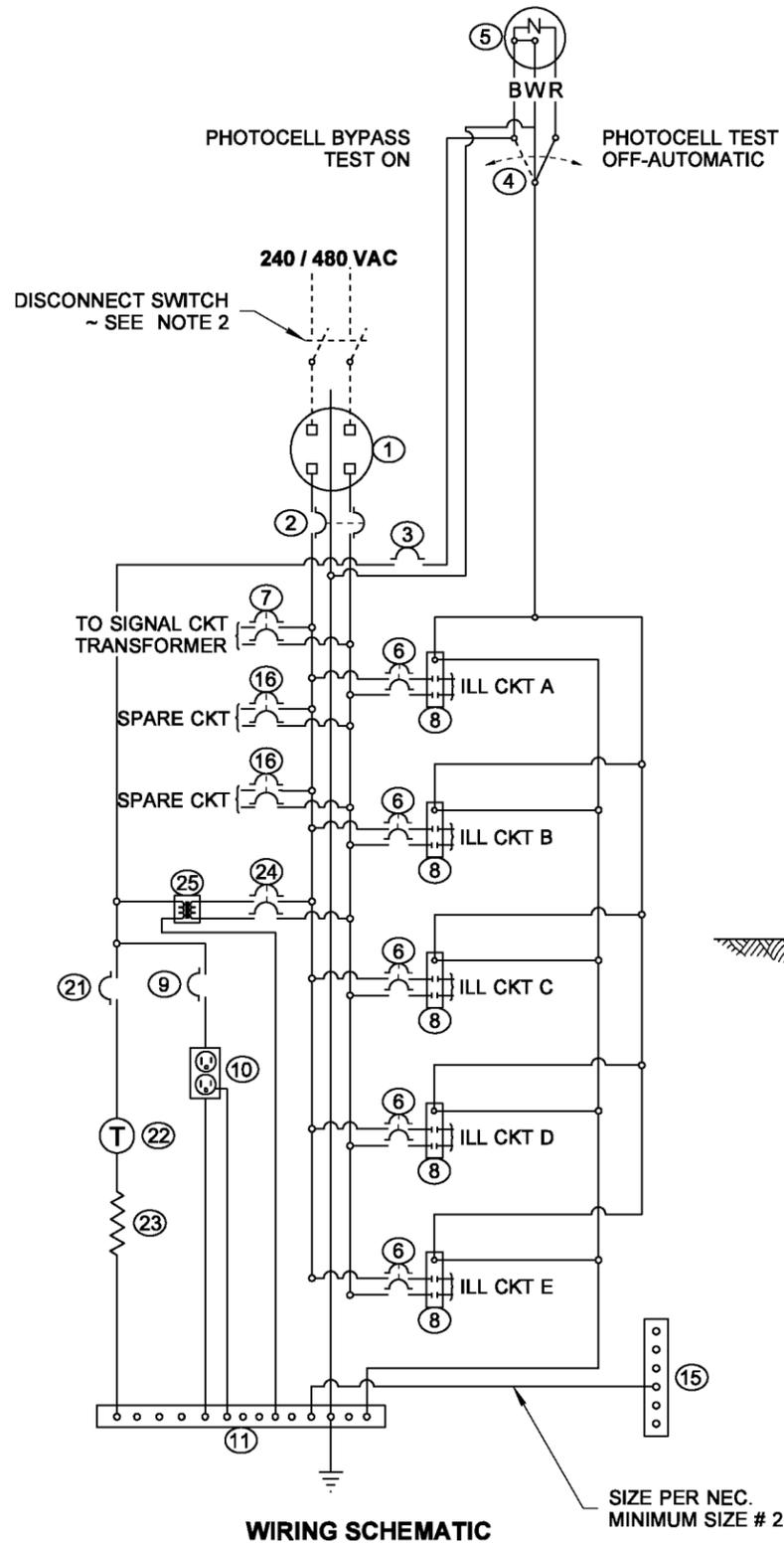
Pasco Bakotich III 5/29/13
STATE DESIGN ENGINEER DATE



DRAWN BY: LISA CYFORD

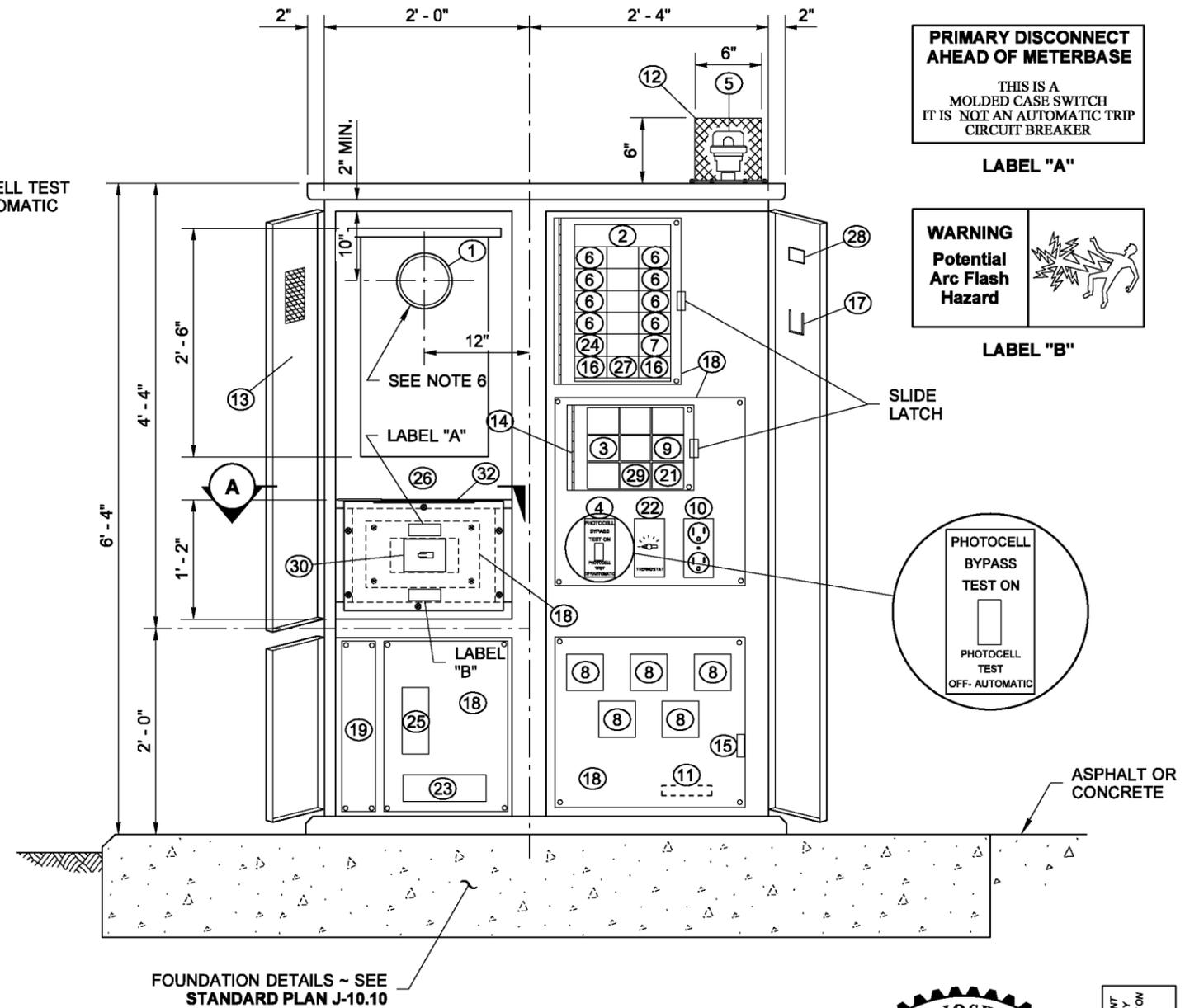
KEY

- ① Meter base per serving utility requirements. As a minimum, the meter base shall be safety socket box with factory installed test bypass facility that meets the requirements of Euserc Drawing 305.
- ② Main Breaker (See Breaker Schedule).
- ③ Photocell Breaker (SPST 15 AMP - 120/240 volt).
- ④ Test With (SPDT snap action, positive close 15 AMP - 120/277 volt "T" rated).
- ⑤ Photoelectric Control, **Standard Specification 9-29.11(2)**.
- ⑥ Branch Breaker (see Breaker Schedule).
- ⑦ Signal Transformer Breaker (see Breaker Schedule).
- ⑧ Contactor (see Breaker Schedule).
- ⑨ Receptacle Breaker (SPST 20 AMP - 120/240 volt).
- ⑩ Receptacle, Grounded (GFCI 20 AMP - 125 volt).
- ⑪ Neutral Buss, 14 lug copper with stainless steel Allen head screws.
- ⑫ Photocell Enclosure - enclosure to be fabricated from 5/8" expanded steel mesh with welded seams and mounting flanges. Hot dip galvanized after fabrication. Type 5052 - H32 aluminum with 5/8" x 5/8" openings equivalent to 5/8" expanded steel mesh may be used as alternative material. See Photocell Enclosure Mounting details, **Standard Plan J-3b**.
- ⑬ Hinged front facing door with 4" x 4" min. polished wire glass window.
- ⑭ Hinged dead front with 1/4 turn fasteners or slide latch.
- ⑮ Cabinet Main Bonding Jumper. Buss shall be 4 lug tinned copper. See Cabinet Main bonding Jumper detail, **Standard Plan J-3b**.
- ⑯ Spare Branch Breaker (DPST 20 AMP - 240/480 volt).
- ⑰ Metal Wiring Diagram Holder.
- ⑱ Removable Equipment Mounting Pan.
- ⑲ 6" x 6" min, underground feed - service wire-way (left rear corner).
- ⑳ Screened Vents, 2 required, 1 each side, louvered plates.
- ㉑ Heater Breaker (SPST 15 AMP - 120/240 volt).
- ㉒ Thermostat, 40°F closure 3 differential.
- ㉓ Strip Heater (100 watt nominal), with terminal strip cover.
- ㉔ Transformer Breaker (DPST 15 AMP - 480 volt).
- ㉕ Dry Transformer (480/120 volt) 3 KVA copper bussed and copper wound.
- ㉖ Reserved for meter, current transformer and/or disconnect switch as required by the utility.
- ㉗ 24 circuit panel board - minimum size with separate main breaker.
- ㉘ Label Cabinet with Buss work rating.
- ㉙ 6 Circuit Panel Board - minimum size.
- ㉚ Molded Case Switch, Rating of switch shall equal or exceed main breaker rating. Provide landing lugs rated to accept 350 Kcmil conductors. (Omit if utility requires the disconnect switch to be mounted externally, or if the utility does not require the disconnect switch).
- ㉛ Molded case switch standoff bracket. (Omit if utility requires the disconnect switch to be mounted externally, or if the utility does not require the disconnect switch).
- ㉜ Molded case switch enclosure with cover. (Omit if utility requires the disconnect switch to be mounted externally, or if the utility does not require the disconnect switch).

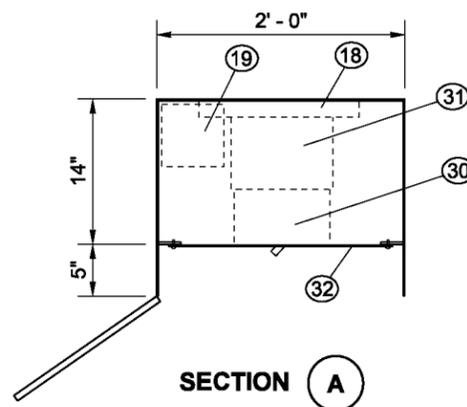


WIRING SCHEMATIC

SIZE PER NEC. MINIMUM SIZE # 2



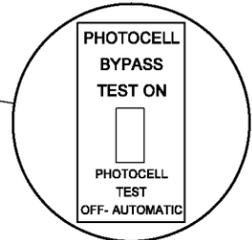
SERVICE CABINET DETAILS



SECTION A

PRIMARY DISCONNECT AHEAD OF METERBASE
THIS IS A MOLDED CASE SWITCH IT IS NOT AN AUTOMATIC TRIP CIRCUIT BREAKER
LABEL "A"

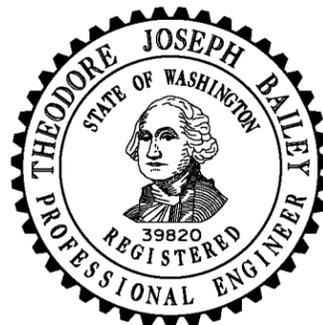
WARNING Potential Arc Flash Hazard
LABEL "B"



SLIDE LATCH

ASPHALT OR CONCRETE

FOUNDATION DETAILS ~ SEE STANDARD PLAN J-10.10



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SERVICE CABINET TYPE E (0 - 200 AMP TYPE 240/480 SINGLE PHASE)
STANDARD PLAN J-10.22-00

SHEET 2 OF 2 SHEETS

APPROVED FOR PUBLICATION

Pasco Bakotich III 5/29/13
STATE DESIGN ENGINEER DATE

