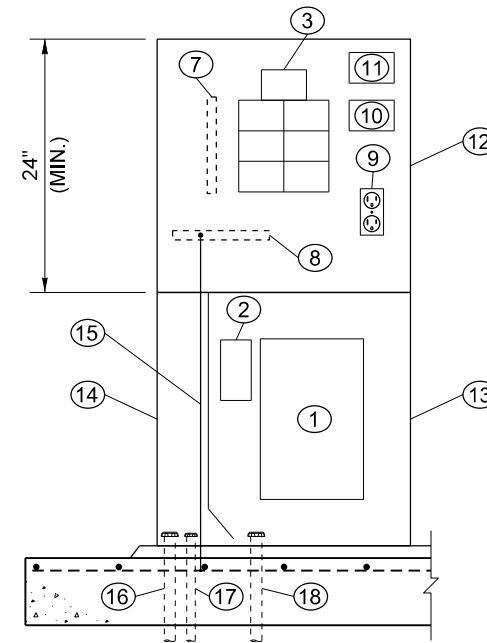
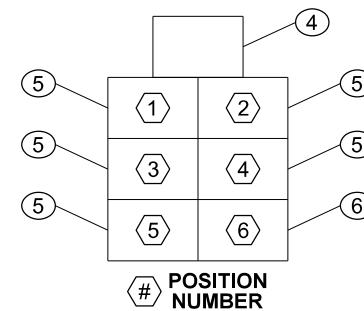


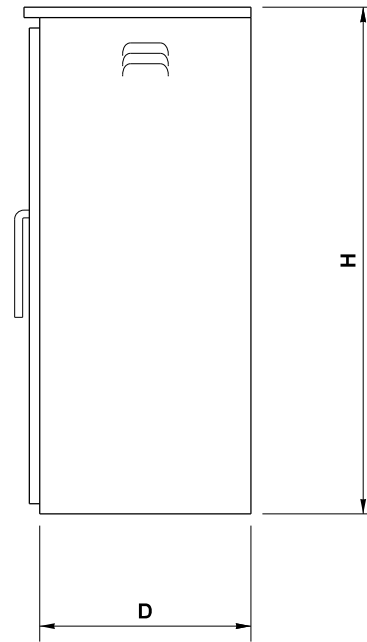
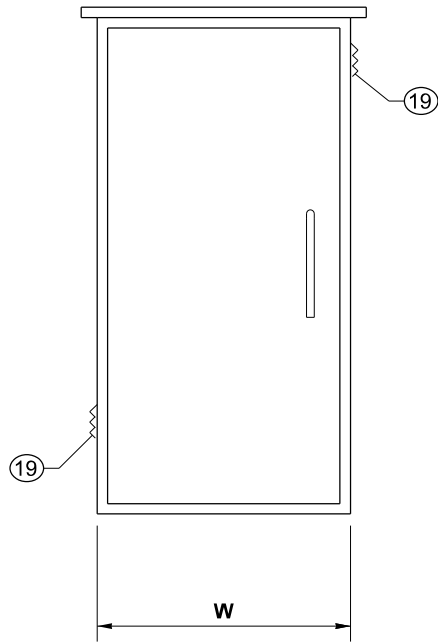
TRANSFORMER SIZE (KVA)	CABINET DIMENSIONS		
	H	W	D
UP TO 12.5	48"	24"	20"
12.6 TO 37.5	60"	32"	30"



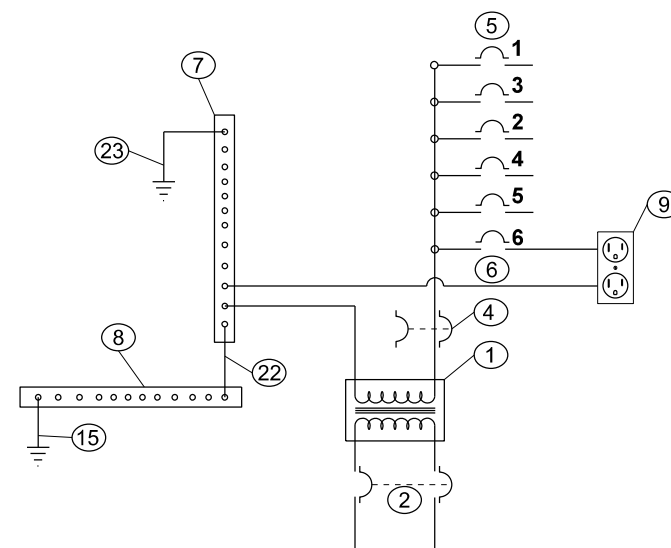
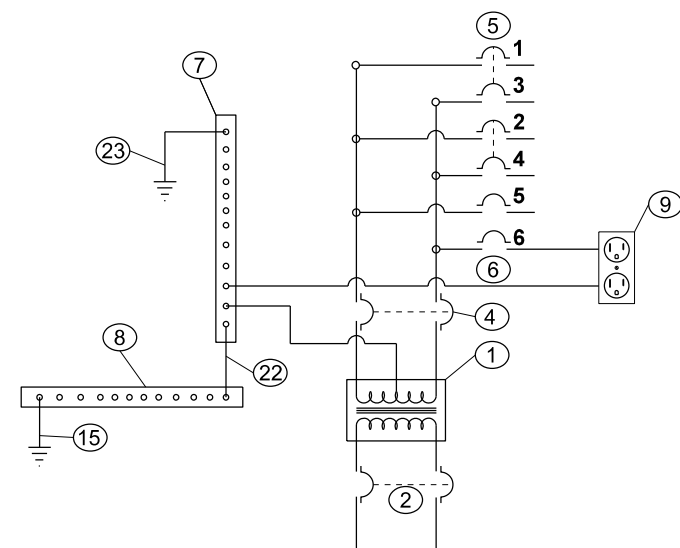
TRANSFORMER CABINET DETAILS



BREAKER PANEL DETAIL



TRANSFORMER CABINET HOUSING



WIRING SCHEMATICS

NOTES

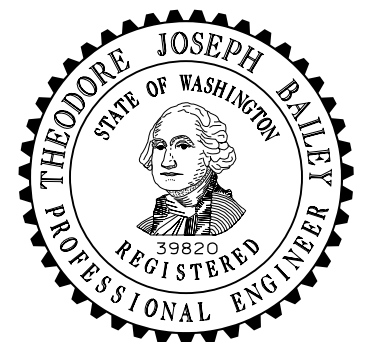
- Cabinet construction shall meet the requirements of **Standard Specification 9-29.25**. Aluminum cabinets shall have mill finish.
- Busswork shall be rated for 100 Amps minimum.
- Transformer size, input voltage, and output voltage shall be as shown in the Contract Plans.
- Secondary branch breakers shall be bolt in type. See Contract Plans for breaker schedule.
- Secondary branch breakers may be either single or double pole breakers. Only two double pole breakers may be used.
- Cabinet anchor bolt pattern is determined by the cabinet manufacturer. All anchor bolts shall either be hot dip galvanized or stainless steel cinch bolts. Bolts shall extend a minimum of 1.5 inches above the concrete pad. See **Standard Plan J-10.10** for Foundation details.
- Transformers 7.5 KVA and larger shall be supplied with two full capacity taps, one at 5%, and one at 10% below normal capacity.
- Engraved phenolic nameplate shall read "SUPPLIED FROM SERVICE CABINET S?? ????". See Contract Plans for service cabinet S number. Nameplate shall be attached with screws or rivets.
- Cabinet shall be oriented such that it opens away from traffic.
- Available fault current label shall meet the requirements of **National Electrical Code Article 110.24**.

KEY

- ① TRANSFORMER
- ② PRIMARY MAIN BREAKER ~ DPST
- ③ SECONDARY MAIN BREAKER AND 6 CIRCUIT BREAKER PANEL ~ SEE BREAKER PANEL DETAIL
- ④ SECONDARY MAIN BREAKER ~ DPST; ONE POLE UN-USED FOR 120V ONLY SECONDARY
- ⑤ SECONDARY BREAKER(S) - SPST OR DPST (DPST BREAKERS USE TWO POSITIONS)
- ⑥ RECEPTACLE BREAKER ~ SPST 20 AMP
- ⑦ ISOLATED NEUTRAL BUSS ~ 12 LUG TINNED COPPER
- ⑧ GROUND BUSS ~ 12 LUG COPPER
- ⑨ RECEPTACLE (GROUNDED) ~ GFCI 20 AMP
- ⑩ ENGRAVED PHENOLIC LABEL PLATE (SEE NOTE 8)
- ⑪ AVAILABLE FAULT CURRENT LABEL (SEE NOTE 10)
- ⑫ UPPER SECTION HINGED DEAD FRONT ~ ONLY BREAKERS AND RECEPTACLE FRONT ACCESSIBLE WHEN CLOSED
- ⑬ LOWER SECTION HINGED DEAD FRONT ~ ONLY MAIN BREAKER ACCESSIBLE WHEN CLOSED
- ⑭ ENCLOSED LOW VOLTAGE WIREWAY
- ⑮ SUPPLEMENTAL GROUND ~ CONNECT GROUND BUSS TO PAD FOUNDATION REBAR
- ⑯ LOW VOLTAGE POWER CONDUIT(S) TO LOADS
- ⑰ GROUND ELECTRODE CONDUIT ~ SEE STANDARD PLAN J-60.05, SHEET 3 (SUPPLEMENTAL GROUND)
- ⑱ HIGH VOLTAGE INPUT POWER CONDUIT
- ⑲ SCREENED VENT LOUVERS ~ MINIMUM 2 REQUIRED (1 EACH SIDE)
- ⑳ HIGH VOLTAGE INPUT CONDUIT RESERVE AREA

KEY CONT.

- ㉑ LOW VOLTAGE AND GROUND CONDUIT RESERVE AREA
- ㉒ CABINET BONDING JUMPER AND LUG
- ㉓ GROUND ELECTRODE ~ SEE STANDARD PLAN J-60.05, SHEET 3



**TRANSFORMER CABINET
(480V/240V - 240V/120V)
STANDARD PLAN J-10.25-00**

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION

STATE DESIGN ENGINEER
Washington State Department of Transportation