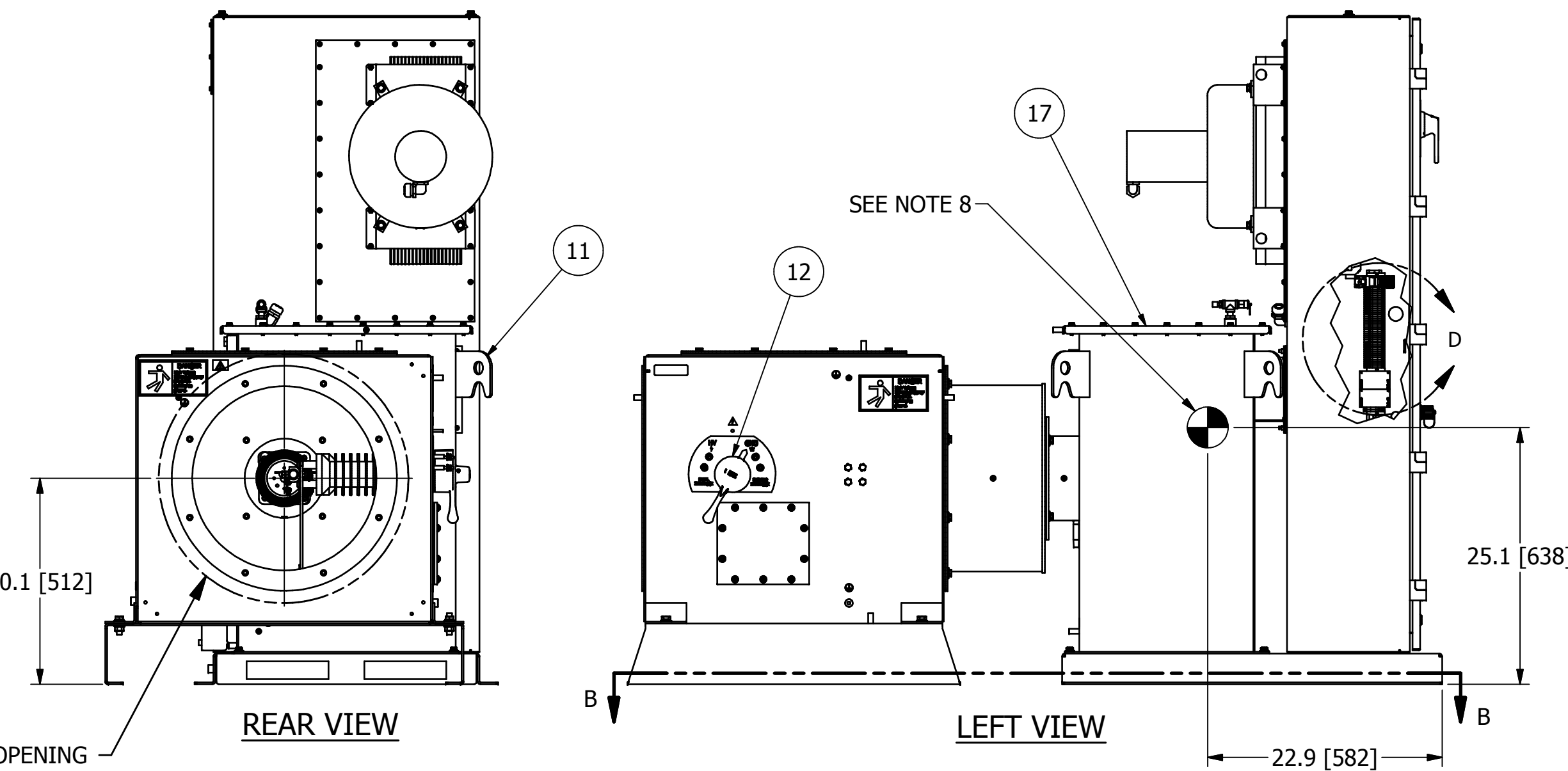
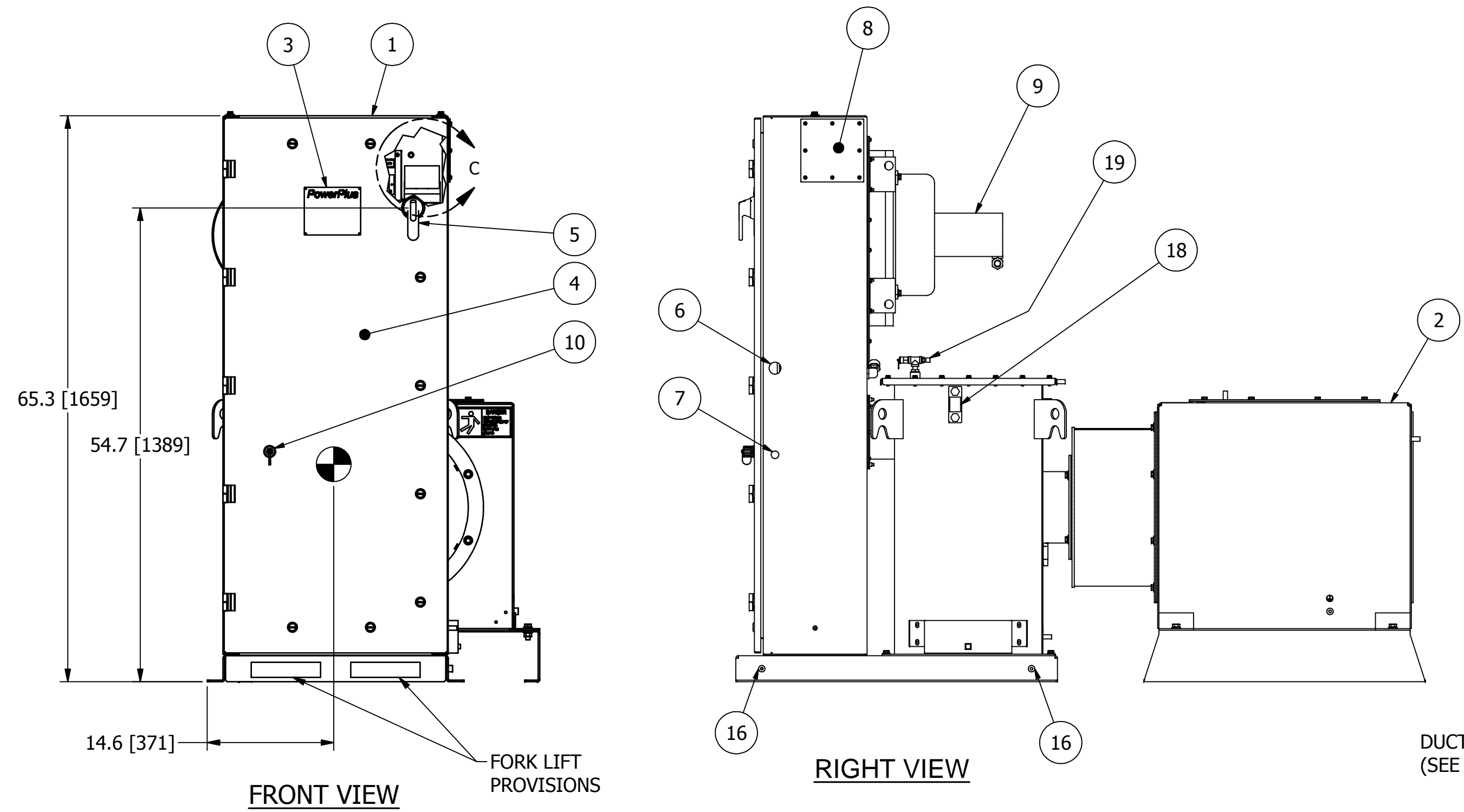
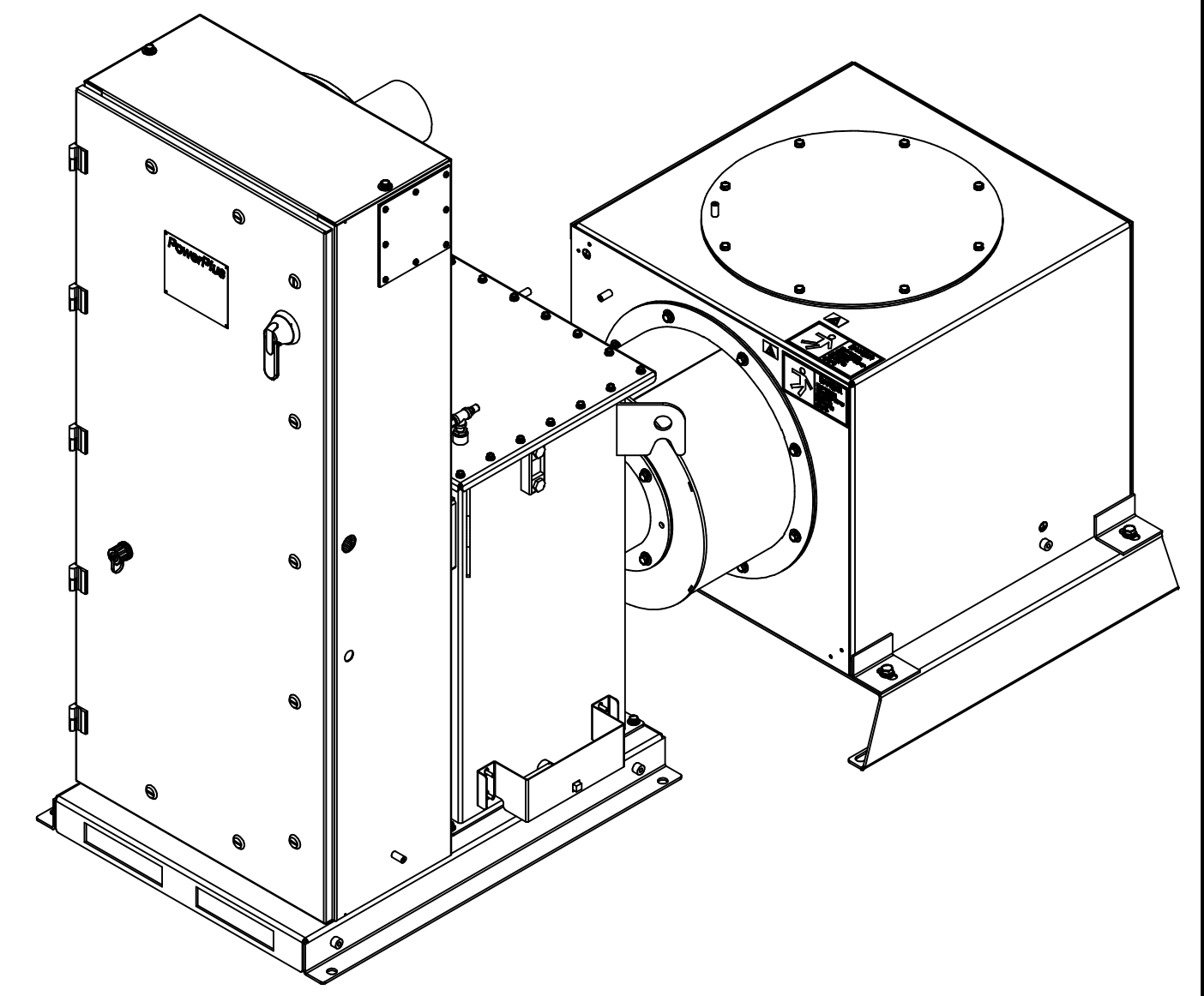


3 PHASE CIRCUIT BREAKER PER DWG ESPELECT-06
TABS TO ACCEPT 3/8" LUGS, TORQUE TO 80in-lbs.

DETAIL C
CIRCUIT BREAKER DETAIL
SCALE 1 / 5

FOR DETAILS REFER TO
DWG ESPELECT-06

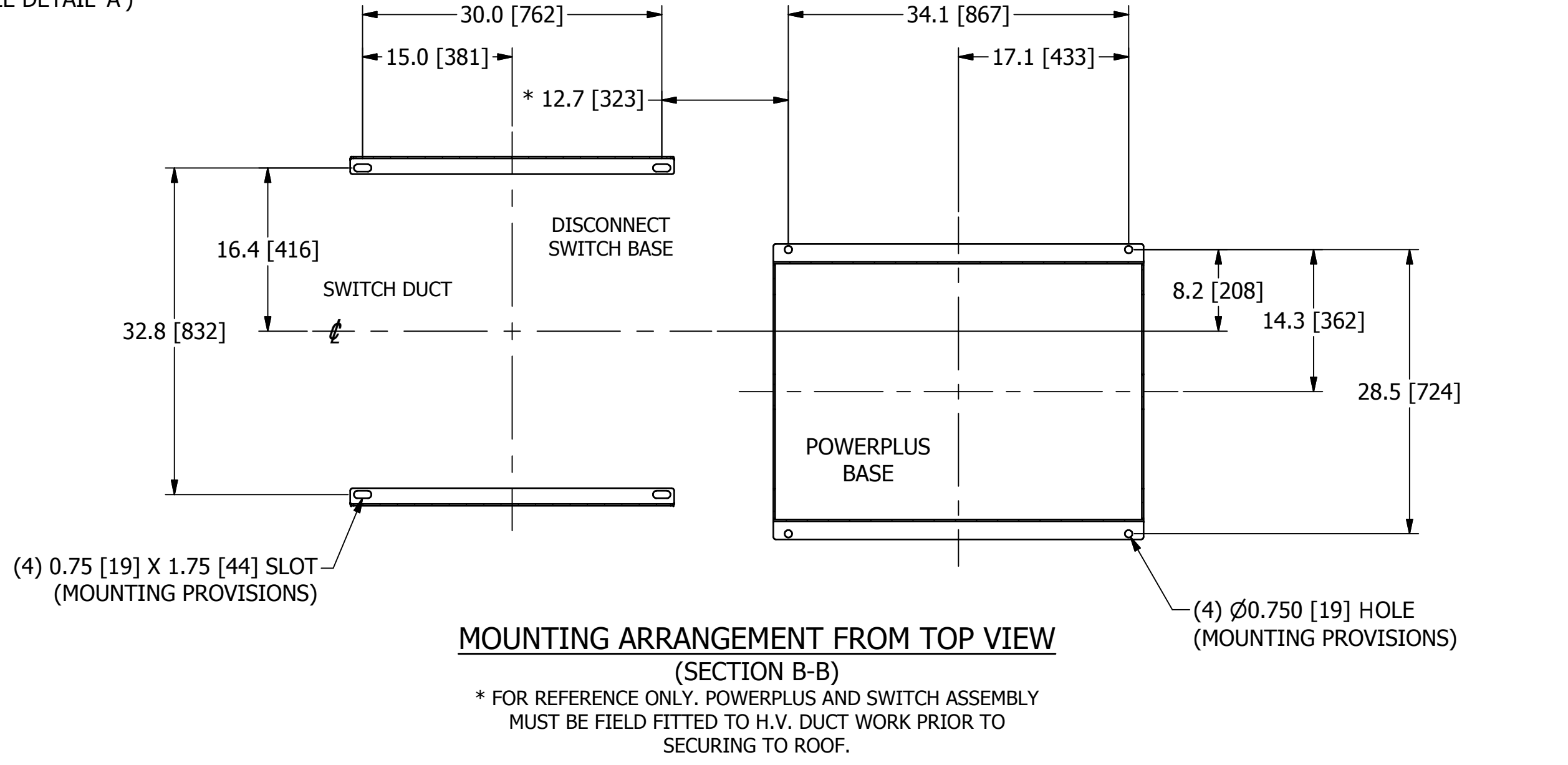
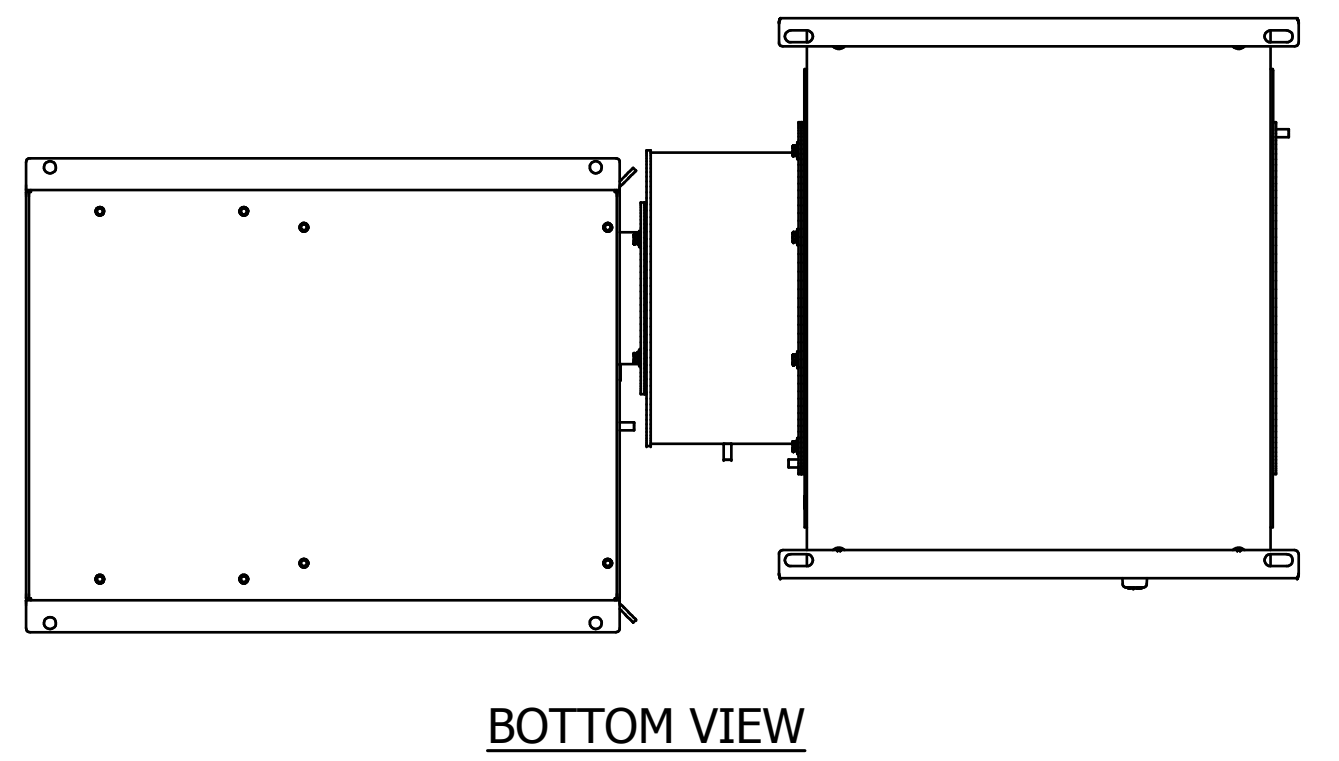
DETAIL D
'2TB' TERMINAL BLOCK RAIL ASSY
SCALE 1 / 6



- BALLOONED NUMBERS:**
- ① POWERPLUS UNIT.
 - ② DISCONNECT GROUND SWITCH (SHIPPED SEPARATELY).
 - ③ RATINGS NAMEPLATE, ALUMINUM PHOTO ETCHED.
 - ④ ACCESS DOOR TO SWITCHGEAR AND CONTROL SECTION. ALLOW 27" [686] OF CLEARANCE FROM THIS FACE FOR DOOR SWING.
 - ⑤ INPUT CIRCUIT BREAKER SWITCH HANDLE W/ INTERLOCK PROVISION INSIDE. SEE DWG C140616.
 - ⑥ 1" [25.4] DIA. CONDUIT HOLE FOR 120V CONTROL WIRING.
 - ⑦ 1/2" [12.7] DIA. CONDUIT HOLE FOR LOW VOLTAGE TRANSDUCER AND COMMUNICATION LINK CONDUIT.
 - ⑧ GLAND PLATE FOR 3 PHASE POWER AND GROUND.
 - ⑨ COOLING FAN FOR IGBT HEATSINK ASSEMBLY.
 - ⑩ WEATHER TIGHT, RJ45 CONNECTOR FOR NWL HMI CONNECTION
 - ⑪ LIFTING HOOKS (4 PLACES).
 - ⑫ H.V. SWITCH MECHANISM W/ VIEWING WINDOW AND INTERLOCK PROVISIONS. SEE DWG A105812.
 - ⑬ SIDE EXIT 18" DUCT MOUNTING PROVISION. INCLUDES GASKETS AND 3/8-16 HARDWARE, (8) PLACES ON A 20" [508] DIA. WITH 18" [457] DIA. DUCT OPENING.
 - ⑭ 1/2" NPT OUTPUT CONNECTION.
 - ⑮ OPTIONAL METRIC ADAPTER FOR H.V. BUSHING CONNECTION. CONVERTS 1/2" NPT TO M20-1.5. SEE DWGA117570.
 - ⑯ EQUIPMENT SAFETY GROUND TERMINATION, 3/8-16 GROUND BOSS.
 - ⑰ HIGH VOLTAGE OIL TANK W/OIL LEVEL SIGHT GLASS AND PRESSURE RELIEF VALVE.
 - ⑱ OIL LEVEL SIGHT GLASS
 - ⑲ PRESSURE RELIEF VALVE
 - ⑳ REMOVABLE ACCESS PANEL FOR BUSHING CONNECTION AND MAINTENANCE.

- SHIPPING NOTES:**
1. POWERPLUS WILL BE SHIPPED SEPARATE FROM DISCONNECT GROUND SWITCH.
 2. DISCONNECT GROUND SWITCH MUST BE SHIPPED SEPARATELY AND INSTALLED IN THE FIELD
 3. DISCONNECT GROUND SWITCH WILL BE SHIPPED WITH GASKET AND MOUNTING HARDWARE.
 4. POWERPLUS SHIPPING WEIGHT: 950lbs [431kg]
 5. DISCONNECT GROUND SWITCH SHIPPING WEIGHT: 350lbs [159kg]
 6. DIELECTRIC FLUID VOLUME: 41gal [154L]
 7. FINISH: ENAMEL, ASA 61, APPROX. RAL 7042.
 8. INDICATES CENTER OF GRAVITY OF POWERPLUS.

- INSTALLATION NOTES:**
1. POWERPLUS MUST BE MOUNTED ON LEVEL SURFACE OR SHIMMED TO WITHIN 1/8" [3.2] RISE PER 12" [305] RUN.
 2. COLD ROOF MAY NEED TO BE REINFORCED TO ACCEPT THE WEIGHT OF THE POWERPLUS UNIT.
 3. MAXIMUM ALLOWABLE DUCT INTERNAL TEMPERATURE: 122°F (50°C). MAXIMUM ALLOWABLE DUCT INTERNAL PRESSURE: 1 PSI (2.04" Hg). THE INSTALLER MUST USE AN ENTRANCE BUSHING IN ROOF TO MEET THESE SPECIFICATIONS.
 4. POWERPLUS MUST BE GROUNDED TO THE COLD ROOF BY THE END USER. REFER TO DWG B126972 FOR GROUNDING DETAILS.
 5. ALLOW 120" MINIMUM CLEARANCE ABOVE THE FLOOR TO LIFT AND REMOVE THE T/R RIG ASSEMBLY FROM THE OIL TANK. CLEARANCE DOES NOT INCLUDE RIGGING HEIGHT.
 6. POWERPLUS AND SWITCH ARE SEALED, RATED NEMA 4/IP56.



ALL DIMENSIONS IN INCHES [mm]

NWL 312 RISING SUN RD BORDENTOWN, NJ 08505 TEL. (609) 298-7300 FAX. (609) 298-1982		
TITLE: HF ESP, POWERPLUS SERIES 7, 17-21kW UNITS, w/ DISCONNECT SWITCH		
SCALE: N/A	APP'D BY: RJK	REVISION DATE: 01/29/18
DWG BY: KAF	D.E.: RJK	DWG: 17-21DS_S7
TOLERANCES: (UNLESS OTHERWISE SPECIFIED) ANGLES +/- 5 DEG DECIMALS: XX +/- 0.01 FRACTIONS: +/- 3/16		NWL PROPRIETARY INFORMATION, NOT TO BE REPRODUCED WITHOUT WRITTEN CONSENT