NOTES:

1. The load center cabinet shall be a free-standing and self-supporting National Electric Manufacturers Association (NEMA) Standard 250, "Enclosure for Electrical Appliance, Equipment, or System," UL 300 Volt Maximum, with 
   Underwriters Laboratories Standard 5050, with accessories, as specified. The cabinet and doors shall be 
   made of steel, aluminum, or other material suitable for the intended use.

2. Use hanger welding method for all external and internal continuous welds. Welds shall be free of gaps, 
   gaps holes and other irregularities. The inside and outside edges of panel shall be free of burrs and 
   provide a smooth, uniform and natural aluminum finish.

3. Bolt-on circuit breakers shall be used.

4. The cabinet door openings shall be double-framed on all four sides to increase strength and rigidity.

5. Gasketing shall be provided on the inner door panels to prevent water from entering when the doors are open.

6. Type III - Power/Air - rated load center cabinet Type II or Type III, per the project plans details. The cabinet and doors shall be made of steel, aluminum, or other suitable material.

7. Bolt holes shall be gasketed in manner which meet or exceed the requirements of the cabinets NEMA and UL or other Independent Lab rating.

9. See the Specifications for additional construction and material requirements.

10. See T.S. 3-9 for minimum 2-position door stop details.

11. A 25-ft coil of #4 AWG bare copper conductor or 1/4" square copper ground plate shall be installed before the concrete is poured and connected to the clamp of the grounding rod. The ground rod shall be covered with 6" of #4 UL-1750 insulated wire by 10" of copper clad ground rods with approved clamp. The first ground rod is to be in the foundation, with the second at least 6 ft away on the outside. Add additional ground rods if the resistance on the ground rods is not less than 25 ohms.

12. In paved areas a raised PCC pad 36" x 4" x 8" wide by 36" deep shall be placed in front of the cabinet. See panel detail per applicable T.S. 3-9.

13. Use an approved Silicon Sealer RTV Type Grey in fume or oven, to seal between cabinet and foundation and any penetrations in the cabinet.

14. Provide at least 2 x 2" permanent clear working space centered on the motor socket behind the load center cabinet. Coordinate with the electrical utility to verify this and other service requirements.

15. These notes apply to the Type II and IV load center cabinets.

16. The contractor shall verify and coordinate the electrical service with the serving utility. The electrical service shall be installed by the contractors in accordance with the electrical utility published requirements.

17. Once the lighting system has been installed all of the conduits entries into the load center cabinet shall be sealed with a reliable and removable gasket seal that is cleared from all conduits.

Enclosure Types on Exposure Ratings per NEMA 250/UL 5050

<table>
<thead>
<tr>
<th>Type of Rating</th>
<th>Locations of Use</th>
<th>Destinations</th>
<th>Degree of Protection Against</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Outdoor</td>
<td>Weatherproof/Raintight</td>
<td>Windblown, Dust, Rain, Sleet, Ice</td>
</tr>
<tr>
<td>3R</td>
<td>Outdoor</td>
<td>Weatherproof/Raintight</td>
<td>Same as 3, but excluding Dust</td>
</tr>
<tr>
<td>4</td>
<td>Outdoor</td>
<td>Weatherproof/Raintight</td>
<td>Splashing and hose directed water, Windblown, Dust, Ice</td>
</tr>
</tbody>
</table>