PREFAB CONFIGURATION-6

GENERAL NOTES:
1. REFER TO ONE LINE DIAGRAM ON SHEET E400 FOR ADDITIONAL DETAILS ON THE ELECTRICAL SYSTEM.
2. FOR ELECTRICAL SCHEDULES, SEE DRAWINGS ON SHEETS E600 AND E601.

PLAN NOTES:
1. REFER TO DRAWING E102 FOR PREFAB MODULE DETAILS.
2. CONCRETE PAVEMENT (TYPICAL).
3. BARD 48X WALL MOUNT COOLING UNIT (TYPICAL OF 3 UNITS).
4. A BUILT-IN DISCONNECT SHALL BE INCLUDED WITH EACH BAR 48X WALL MOUNT COOLING UNIT (TYPICAL OF 3).
5. GENERATOR SHALL INCLUDE A BUILT-IN CIRCUIT BREAKER. SEE ONE LINE DRAWING E400 FOR DETAILS.

ELECTRICAL SITE LAYOUT PLAN
CONFIGURATION-6

Sheet # 1 of 10
PREFAB CONFIGURATION-6

1. GENERAL NOTES:
   - REFER TO THE ONE LINE DIAGRAM ON SHEET E601 FOR ADDITIONAL DETAILS ON THE ELECTRICAL SYSTEM.
   - FOR ELECTRICAL SCHEDULES, SEE DRAWINGS ON SHEETS 600 AND 601.
   - ELECTRICAL PREFAB MODULE DETAILS

   PLAN NOTES:
   - FIRE SUPPRESSION CYLINDER
   - BARRY(STR): M/D7XXX-600/100 WALL MOUNT COOLING UNIT WOAMPER.
   - HOT AISLE.
   - COLD AISLE.
   - FIRE ALARM CONTROL PANEL INSTALLATION SHALL BE AS FOR NFPA 72 REQUIREMENTS.
   - GENERATION ARCHNIKATUR PANEL
   - PAX UPS BATTERY CABINET.
   - PAX UPS BATTERY CABINET.
   - SOURCE TRANSFER CONTROL PANEL (CP-100)
   - Mandatory Service Bypass Panel - See Panel MDP-XXX Schedule on Drawing E-501 for Details.
   - SLOPING DOOR.
   - HUMIDIFIER (OPTIONAL).
   - PROVIDE FOUR(4) CONCEALED UNDERGROUND PVC SCH. 40 CONDUITS FOR POWER FROM UTILITY.
   - PROVIDE ONE(1) CONCRETE ENCLOSURE FOR FUEL AND CONTROLS FROM GENERATOR.

2. ELECTRICAL PREFAB MODULE DETAILS

   CONFIGURATION-6

   ELECTRICAL PREFAB MODULE DETAILS

   DRAWING NUMBER:

   SHEET TITLE:

   DRAWING SCALE:

   PROJECT NUMBER:

   CHECKED BY:

   DRAWN BY:

   KEYPLAN:

   PROJECT INFORMATION:

   CONSULTANTS:

   REV.

   DATE

   DESCRIPTION

   0

   05/2/2019

   SCHNEIDER ELECTRIC

   IT WISCONSIN SERVICES, INC.

   (715) 831-9191

   29KW DATA CENTER REFERENCE DESIGN

   PREFAB CONFIGURATION-6

   PREFERRED ENGINEER

   PREFERRED DATE

   NOT FOR CONSTRUCTION

   29KW DATA CENTER REFERENCE DESIGN

   PREFAB CONFIGURATION-6

   Mission Critical Services, Inc.

   PH: 703-968-0300     FX: 703-654-3680

   1010-D jeopardize story building.

   PROPRIETARY USE PURSUANT TO COMPANY POLICY

   ALTERATION TO THE DOCUMENT

   NOTATION

   ALTERED?

   ALTERED

   NOT FOR

   ALTERED

   UNLESS

   ALTERED

   AND

   ALTERED

   BEARS

   SIGNED

   DATE

   PROJECT

   FOR

   NOT FOR

   SCHNEIDER ELECTRIC IT WISCONSIN SERVICES, INC.

   PROPRIETARY USE PURSUANT TO COMPANY POLICY

   ALTERATION TO THE DOCUMENT

   NOTATION

   ALTERED?

   ALTERED

   NOT FOR

   ALTERED

   UNLESS

   ALTERED

   AND

   ALTERED

   BEARS

   SIGNED
GENERAL NOTES:
1. REFER TO ELECTRICAL GROUNDING DIAGRAM ON SHEET 6-E103 FOR ADDITIONAL INFORMATION.
2. SEE DRAWING E103 FOR DETAILS ON MAIN GROUNDING SYSTEM AND GROUND BUS.
3. ALL GROUNDING CONNECTIONS AND BONDINGS SHALL BE BY ARTICLE 250 OF NFPA 70.
4. ALL GROUND WIRES SHALL BE #2 AWG BARE COPPER, STRANDED.
5. ALL LIGHTNING PROTECTION WIRES SHALL BE #2 AWG BARE COPPER, STRANDED.
6. ALL LIGHTNING PROTECTION COMPONENTS SHALL BE PROPERLY SUPPORTED TO THE STRUCTURE FOR WIND TIE.
7. ALL LIGHTNING PROTECTION CONNECTIONS AND BONDINGS SHALL BE PER NFPA 70E.

PLAN NOTES:
- GROUNDING AND LIGHTNING PROTECTION PLAN
- CONFIGURATION-6
- 25KW DATA CENTER REFERENCE DESIGN
- PREFAB CONFIGURATION-6

LEGEND:
- GROUND WIRE
- LIGHTNING PROTECTION WIRE
- GB
- GROUND BAR
- MSG
- MAIN GROUNDING BUS
- MAIN GROUNDING BAR
- LIGHTNING PROTECTION WIRE
- LIGHTNING PROTECTION BAR
- LIGHTNING PROTECTION AIR TERMINAL
- LIGHTNING PROTECTION DOWN WIRE
- LIGHTNING PROTECTION ROOF WIRE
- LIGHTNING PROTECTION WIRE
- LIGHTNING PROTECTION PANEL
- GROUNDING BONDING JUMPER
- GROUNDING BUS
- MAIN GROUNDING BUS
- MAIN GROUNDING ELECTRODE SYSTEM
- GROUNDING BAR AT THE SERVICE ENTRANCE PANEL REFER TO ELECTRICAL GROUNDING ONE LINE DIAGRAM ON SHEET 6-E103 FOR DETAILS.
- GROUND BARS LOCATED OUTSIDE AND MOUNTED ON ENCLOSURE MODULE.
- LIGHTNING PROTECTION GROUNDING ELE (TYPICAL). PROVIDE MIN. #2 AWG BARE COPPER WIRE DRIVE TO A MINIMUM OF 10FT INTO THE EARTH.
- GROUNDING ELECTRODE (TYPICAL) PROVIDE MIN. #2 AWG BARE COPPER WIRE DRIVE TO A MINIMUM OF 8FT X 3/4IN DIAM. COPPER ROD.
- GROUNDING ELECTRODE (TYPICAL). PROVIDE MIN. 8FT X 3/4IN DIAM. COPPER ROD. DRIVE TO A MINIMUM OF 10FT INTO THE EARTH.
- GROUNDING ELECTRODE (TYPICAL) PROVIDE MIN. 4FT X 1/2IN DIAM. COPPER ROD. DRIVE TO A MINIMUM OF 10FT INTO THE EARTH.
- GROUNDING ELECTRODE (TYPICAL) PROVIDE MIN. 8FT X 3/4IN DIAM. COPPER ROD. DRIVE TO A MINIMUM OF 10FT INTO THE EARTH.
RAMP UP →

**Lighting Fixture Schedule**

<table>
<thead>
<tr>
<th>Type</th>
<th>Manufacturer</th>
<th>Voltage</th>
<th>Wattage</th>
<th>Lamp</th>
<th>Number of Fixtures</th>
<th>Mounting</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>LED 4&quot; VAPORTIGHT™</td>
<td>120V</td>
<td>38W</td>
<td>LED</td>
<td>4</td>
<td>SURFACE</td>
<td>4&quot; LED VAPOR TIGHT FIXTURE</td>
</tr>
<tr>
<td>B</td>
<td>LED 3.5&quot; VAPORTIGHT™</td>
<td>120V</td>
<td>26.4W</td>
<td>LED</td>
<td>2</td>
<td>SURFACE</td>
<td>2&quot; LED VAPOR TIGHT FIXTURE Dimmable</td>
</tr>
<tr>
<td>EM</td>
<td>LED COMPACT LITHONIA LIGHTING</td>
<td>120V</td>
<td>4.3W</td>
<td>LED</td>
<td>1</td>
<td>SURFACE</td>
<td>THERMOPLASTIC WHITE</td>
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<tr>
<td></td>
<td>WITH LED HEAD</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(3) HEAD BATTERY BACKED EMERGENCY LIGHT</td>
</tr>
</tbody>
</table>

**General Notes:**
1. Refer to one line diagram on sheet E940 for additional details on the electrical system.
2. For electrical schedules, see drawings on sheets E850 and E861.

**Plan Notes:**
- OCCUPANCY SENSOR (TYP.) MODEL ST-310 OR DX-100-3 OR SIMILAR.

**Sheet Information:**
- Sheet Title: ELECTRICAL LIGHTING PLAN
- Sheet Number: E104
- Not for Construction
- Reference Design
- Prefab Configuration-6
- 25kW Data Center
1000A/1250A STANDY GENERATOR.

Run two phase wires, a neutral wire and a grounding wire in a 3/4" conduit from MEB-100 panel to generator power panel. Refer to panel schedule on drawing E-601 for details.

Automatic transfer between utility breaker and generator breaker is achieved using the source transfer control panel.

100kW/125kVA SERVICE ENTRANCE.

See panel MBP-300 schedule on drawing E-601 for details.

Optional 400A service entrance rated disconnect switch (provided by others).

Circuit breaker will be equipped with a micrologic 3.3.6 electronic trip unit and a shunt trip unit. Shunt trips are to be wired to EPO panel.

Utility and generator main circuit breakers shall be equipped with micrologic 3 power trip unit and shunt trip unit. Shunt trips are to be wired to EPO panel.

Control wiring.

Conductors from utility and generator shall run as per wire schedule shall be run in 2" PVC Schedule 80 conduits.

See drawing E-600 for abbreviations and symbols.

See drawing E-605 and E-606 for electrical specifications.

See drawing E-600 and E-601 for electrical schedules.

Supply of control panels along with their integration services with the data center system shall be provided by Schneider Electric division.

Provide separate conduit for connecting the SPD with power quality meter, provided for SPD failure monitoring.

Provide a 480V/408V/230V/120V control power to control equipment on 120/240V AC panel.

Provide a 120V AC to 24V DC power supply for 24V DC control power requirements.

The circuit breaker inside the generator enclosure shall be equipped with a 24V DC shunt trip unit. Shunt trips are to be wired to EPO panel.

Provide an Ethernet switch with sufficient ports for connecting the power quality meter if provided, life system components and all other equipment requiring remote monitoring and configuration.

The wiring to be provided by power company.

For information about our policies and your rights to whom to contact, please access our privacy policy.

Not for construction.
ELECTRICAL GROUNDING DIAGRAM:

GENERAL NOTES:
- See drawings E001 for abbreviations and symbols.
- See drawings E002 and E003 for electrical specifications.
- See drawing E004 for electrical one line diagram.
- See drawing E005 for electrical details.
- See drawing E006 for electrical schedules.
- All grounding connections and bondings shall be in accordance with Article 250 of NFPA 70. EGC sizing is normally run with circuit conductors. See drawing E400 one line diagram and E600 electrical schedules for EGC sizing details.
- Refer to electrical grounding and lightning protection drawing on sheet E103 for additional details.

PLAN NOTES:
1. Wall mount cooling unit (typ.).
2. Generator grounding system is based on a non-separately derived system.
3. See drawing E101 for additional details.
4. Bonding (jumper) (provided by others) to be installed as required. All grounding connections and bondings shall meet all state and local code requirements.

LEGEND:
- EGC: Equipment grounding conductor. Normally run in raceways with circuit conductors. Size per NEC.
- SEC: Grounding electrode conductor. Size per NEC.
- BJ: Bonding jumper. Size per NEC.
- MBJ: Main bonding jumper.
- SBJ: System bonding jumper.
- MGB: Main grounding bar.
- G: Ground bar.
- N: Neutral bar.
- GB: Generator bar.
- PDU: Service/maintenance bypass panel.
**ELECTRICAL DETAILS, CONFIGURATION-6**

**MAIN GROUNDING BUS - DETAIL**

<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>1</td>
<td>GROUND BAR</td>
</tr>
<tr>
<td>2</td>
<td>WALL MTG. BRT (OR FLOOR)</td>
</tr>
<tr>
<td>3</td>
<td>INSULATORS</td>
</tr>
<tr>
<td>4</td>
<td>5/8&quot; - 11 X H.H.C.S.</td>
</tr>
<tr>
<td>5</td>
<td>5/8&quot; LOCKWASHER</td>
</tr>
<tr>
<td>6</td>
<td>SEE DETAIL #1 IN THIS SHEET</td>
</tr>
<tr>
<td>7</td>
<td>GREEN INSULATED GROUND CONDUCTOR</td>
</tr>
<tr>
<td>8</td>
<td>DESTINATION LABEL TAG DO NOT REMOVE</td>
</tr>
</tbody>
</table>

- BELOW RAISED FLOOR NOB - 3/8" O.C.
- PROVIDE NEXA T-TORS 24" ON CENTER ACROSS LENGTH OF GROUND BAR
- ALL CONNECTIONS SHALL BE MADE WITH STAINLESS STEEL TAMPER PROOF HARDWARE OR EXISTING MISC. WELD

**CABLE LUG - DETAIL**

- FOR SOLID MASONRY OR CONCRETE USE MINIMUM SIZE AUGERED TRUNK AND SHELLS RUN CHANNEL FULL LENGTH OF PANEL
- 1-5/8" X 1/2" KINDLING UNSTRIPT OR EQUAL
- BOLT PANEL TO CHANNEL USING MINIMUM OF 4 BOLTS PER CHANNEL FULL LENGTH OF PANEL

**INSULATED GROUND BAR - DETAIL**

- FOR HOLLOW MASONRY USE MINIMUM 3/8" TOGGLE BOLTS. MINIMUM 2 PER PAIR IN PANEL
- BOLT PANEL TO CHANNEL USING MINIMUM OF 4 BOLTS PER CHANNEL FULL LENGTH OF PANEL

**SURFACE EQUIPMENT MOUNTING - DETAIL**

- ALL SAFETY SWITCHES, 8A AND LARGER, ALL STARTERS AND CONTROLLERS, 3 H.P. AND LARGER, ALL SURFACE MOUNTED PANELS AND ALL EQUIPMENT MOUNTED ON OUTSIDE WALLS SHALL BE MOUNTED IN THIS MANNER

**NOT TO SCALE**

**KEYPLAN:**

- MAIN GROUNDING BUS - DETAIL
- MAIN GROUNDING BUS - DETAIL
- UNINSULATED GROUND BAR - DETAIL

**IMPORTANT NOTE:**

The contractor shall supply a sample as illustrated on this detail to use technologies for approval prior to laying any cables or purchasing lugs. The contractor shall submit samples for review in a timely manner to ensure materials may be reviewed prior to project schedule. Failure to submit samples for review and use of non-approved materials may be subject to replacement at contractor's expense.
**Distribution Panelboard 'MDF-100' Schedule**

<table>
<thead>
<tr>
<th>VOL. TYPE</th>
<th>ITEM</th>
<th>CIRCUIT BREAKER</th>
<th>WIRE</th>
<th>NAME</th>
<th>LOCATION</th>
<th>PANEL</th>
<th>CATALOG NUMBER</th>
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<td></td>
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<td>3750 A</td>
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<td>250 A</td>
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<td></td>
<td></td>
<td>125 A</td>
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</tr>
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<td></td>
<td></td>
<td>60 A</td>
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</tr>
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<td></td>
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<td>30 A</td>
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<td>15 A</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>5 A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>3 AMP</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Notes:**
- The GND is sized based on NEC Table 310.15(B)(16) for Copper Conductors RATED AT 75°C.
- The grounding electrode conductor (GEC) is sized based on NEC Table 250.122 for Copper Conductors.
- The feeder sizing is based on NEC Table 250.122 for Copper Conductors rated at 75°C.
- The power supply is sized based on NEC Table 250.122 for Copper Conductors.
- The service conductors are sized based on NEC Table 250.122 for Copper Conductors.
- The service disconnecting means are sized based on NEC Table 250.122 for Copper Conductors.

---

**3-Wire Feeder Sizing Schedule**

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th># OF CONDUCTORS (COVERS)</th>
<th>GND.</th>
<th>CONDUCT</th>
</tr>
</thead>
<tbody>
<tr>
<td>3W-15</td>
<td>1 #12, #12</td>
<td>3/4</td>
<td></td>
</tr>
<tr>
<td>3W-25</td>
<td>1 #12, #12</td>
<td>3/4</td>
<td></td>
</tr>
<tr>
<td>3W-35</td>
<td>1 #12, #12</td>
<td>3/4</td>
<td></td>
</tr>
<tr>
<td>3W-45</td>
<td>1 #12, #12</td>
<td>3/4</td>
<td></td>
</tr>
<tr>
<td>3W-55</td>
<td>1 #12, #12</td>
<td>3/4</td>
<td></td>
</tr>
<tr>
<td>3W-65</td>
<td>1 #12, #12</td>
<td>3/4</td>
<td></td>
</tr>
<tr>
<td>3W-75</td>
<td>1 #12, #12</td>
<td>3/4</td>
<td></td>
</tr>
<tr>
<td>3W-85</td>
<td>1 #12, #12</td>
<td>3/4</td>
<td></td>
</tr>
<tr>
<td>3W-95</td>
<td>1 #12, #12</td>
<td>3/4</td>
<td></td>
</tr>
<tr>
<td>3W-105</td>
<td>1 #12, #12</td>
<td>3/4</td>
<td></td>
</tr>
</tbody>
</table>

**4-Wire Feeder Sizing Schedule**

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th># OF CONDUCTORS (COVERS)</th>
<th>GND.</th>
<th>CONDUCT</th>
</tr>
</thead>
<tbody>
<tr>
<td>4W-15</td>
<td>1 #12, #12, #12</td>
<td>3/4</td>
<td></td>
</tr>
<tr>
<td>4W-25</td>
<td>1 #12, #12, #12</td>
<td>3/4</td>
<td></td>
</tr>
<tr>
<td>4W-35</td>
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</tr>
<tr>
<td>4W-85</td>
<td>1 #12, #12, #12</td>
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<td></td>
</tr>
<tr>
<td>4W-95</td>
<td>1 #12, #12, #12</td>
<td>3/4</td>
<td></td>
</tr>
<tr>
<td>4W-105</td>
<td>1 #12, #12, #12</td>
<td>3/4</td>
<td></td>
</tr>
</tbody>
</table>

---

**Not for Construction**

- Distribution Panelboard 'MDF-100' Schedule
- 3-Wire Feeder Sizing Schedule
- 4-Wire Feeder Sizing Schedule

---

**Schneider Electric Reference Design:**

- Mission Critical Services, Inc.
- Proprietary use pursuant to company policy

---

**Statement of Compliance:**

- Mission Critical Services, Inc.
- Schneider Electric IT
- The distribution panelboard has been provided with a 3 Amp isolating ground conductor sized to match the equipment grounding conductor.
- The feeder shall be provided with a GEC sized to match the isolating ground conductor sized to match the equipment grounding conductor.

**Schneider Electric IT:**

- Designated for use with Schneider Electric IT equipment
- Do not for construction

**E600:**

- 25kW Data Center Prefab Configuration-6
- 5/21/2019
**SYSTEM LOAD CALCULATION**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>LOAD</th>
<th>UNIT</th>
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<tbody>
<tr>
<td>CRITICAL LOAD</td>
<td>26.800</td>
<td>kVA</td>
</tr>
<tr>
<td>HVAC 101</td>
<td>14.410</td>
<td>kVA</td>
</tr>
<tr>
<td>HVAC 152</td>
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<td>kVA</td>
</tr>
<tr>
<td>PRIMARY/REDDUNDANT (I)</td>
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<td>kVA</td>
</tr>
<tr>
<td>EER &amp; Chiller SYSTEM (E)</td>
<td>0.600</td>
<td>kVA</td>
</tr>
<tr>
<td>FIRE SUPPRESSION (S)</td>
<td>0.000</td>
<td>kVA</td>
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<tr>
<td>RECEPTACLES (R)</td>
<td>1.260</td>
<td>kVA</td>
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<tr>
<td>HUMIDIFIER/OPTIONAL (H)</td>
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</tr>
<tr>
<td>GENERATOR POWER PANEL (G)</td>
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</tr>
<tr>
<td>CONTROLS POWER</td>
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<td>kVA</td>
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<td>INFERIOR LIGHTING (L)</td>
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<td>LOBBY VENTILATION (V)</td>
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<td>EXTERIOR VENTILATION (E)</td>
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<td>TOTAL kVA</td>
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**DISTRIBUTION PANELBOARD 'MBP-300' SCHEDULE**

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<th>PH</th>
<th>ITEM</th>
<th>LOAD</th>
<th>UNIT</th>
<th>CAT #</th>
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<td>SPACE</td>
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</tr>
<tr>
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<td>7</td>
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**NOTES:**

1. LOAD FACTOR IN ACCORDANCE WITH NEC.
2. RACKS SHALL HAVE ON DISTRIBUTION, OPTIONAL UPGRADE TO UPS DISTRIBUTION SHALL BE AVAILABLE ON REQUEST.
3. TOTAL kVA: 26.80
4. TOTAL MBPS: 72.17

**PLAN NOTES:**

- Power shall be distributed to IT racks and control panel load through cable trays.