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#### ELECTRICAL
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### 100% CONTRACT DOCUMENT PACKAGE

JUNE 2020

NM INSTITUTE OF MINING AND TECHNOLOGY
801 Leroy Place, Socorro, NM 87801

WEST HALL RENOVATION
SECTION OF NEW WALL IN ROOMS 119 + 219

- Existing 1/2" concrete ceiling/ceiling tilt core
- 2.5" steel stud 3/4" C.C. max.
- Wood batt
- 1/2" drywall board
- Steel track
- Minimally fasten at 1/2" max.
- Vinyl base
- Flexible sealant

Scale: 1/8" = 1'-0"
2nd Floor - Existing Mech. to be Removed.
KEYED NOTES

1. REF LINES UP TO FLOOR ABOVE. SEE M104 FOR CONSTRUCTION.
2. REF LINES UP TO FLOOR ABOVE. SEE M104 FOR CONSTRUCTION.
3. ODU ON NEW 5' SLAB
4. EXHAUST AIR OUTLET
5. OUTSIDE AIR INTAKE

1 FIRST FLOOR - MECHANICAL NEW WORK

1 REF LINES UP TO FLOOR ABOVE. SEE M104 FOR CONTINUATION.
2 REF LINES UP TO FLOOR ABOVE. SEE M104 FOR CONTINUATION.
3 ODU ON NEW 5' SLAB
4 EXHAUST AIR OUTLET
5 OUTSIDE AIR INTAKE

Facilities Management
801 Leroy Place Socorro, NM 87801
Tel: 575-835-5533
Fax: 575-835-5929
E-mail: facmgmt@admin.nmt.edu
https://www.nmt.edu/facilities/
KEYED NOTES

1  REF LINES UP FROM FLOOR BELOW. SEE M103 FOR CONTINUATION.
2  REF LINES DOWN TO FLOOR BELOW.  SEE M103 FOR CONTINUATION.

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1/8" = 1'-0"
FIRST FLOOR MECHANICAL NEW WORK
### OUTDOOR UNITS

<table>
<thead>
<tr>
<th>Term</th>
<th>Manufacturer</th>
<th>Model</th>
<th>Type</th>
<th>Voltage</th>
<th>Power</th>
<th>MCA</th>
<th>MOA</th>
</tr>
</thead>
<tbody>
<tr>
<td>ODU1-1</td>
<td>Mitsubishi</td>
<td>PURY-P168TNU-A</td>
<td>Outdoor Unit</td>
<td>168000.0 Btu/h</td>
<td>188000.0 Btu/h</td>
<td>208 V</td>
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### MCA | MOA

| IDU1-3 | Mitsubishi | PKFY-P06NBMU-E | Wall Mounted | 6000.0 Btu/h | 6700.0 Btu/h | 208-230V | 1 | .19 A |

### Facilities Management

Facilities Management

801 Leroy Place Socorro, NM 87801

Tel: 575-635-0053
Fax: 575-635-0929
E-mail: facmgmt@admin.nmt.edu

### INDOOR UNITS

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<th>Model</th>
<th>Type</th>
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<th>Voltage</th>
<th>MCA</th>
<th>MOA</th>
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<tr>
<td>ERV1-1</td>
<td>Mitsubishi Ventilator</td>
<td>Ceiling Recessed</td>
<td>8000.0 9000.0 Btu/h</td>
<td>208-230V</td>
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### SCHEDULES

Drawn by [Name]
Checked by [Name]
5/5/2021 10:39:16 AM
KEYED NOTES

1. REMOVE EXISTING DHW AND DCW MAIN DISTRIBUTION LINES.
2. LEAVE EXISTING DHW SHUTOFF VALVE AND BFD.
3. DEMO EXISTING DCW/DHW TO FIXTURE BRANCH LINES IN WALL. EXISTING LINES IN CMU WALL TO REMAIN.

1st Floor - Existing Plumbing to be Removed:

(Notes)
KEYED NOTES

1 DEMO EXISTING DCW/DHW TO FIXTURE BRANCH LINES IN WALL - EXISTING LINES IN CMU WALL TO REMAIN.

2 REMOVE EXISTING DHW AND DCW MAIN DISTRIBUTION LINES.

2nd Floor - Existing Plumbing to be

3 DEMO EXISTING DCW/DHW TO FIXTURE BRANCH LINES IN WALL - EXISTING LINES IN CMU WALL TO REMAIN.

2 REMOVE EXISTING DHW AND DCW MAIN DISTRIBUTION LINES.
KEYED NOTES

1. 1-1/2" DCW UP TO FLOOR ABOVE. SEE P104 FOR CONTINUATION.
2. 1-1/2" CHW UP TO FLOOR ABOVE. SEE P104 FOR CONTINUATION.
3. 3/4" DHWR UP TO FLOOR ABOVE. SEE P104 FOR CONTINUATION.
4. CONNECT NEW DHW AND DCW LINES TO EXISTING BRANCH LINES SERVING FIXTURES.
5. DHWH ON 4" HOUSEKEEPING PAD.
6. ET ON 4" HOUSEKEEPING PAD.

1st Floor - Plumbing New Work
KEYED NOTES

1. 1-1/2" DCW DOWN TO FLOOR BELOW. SEE P103 FOR CONTINUATION.
2. 1-1/4" DHW DOWN TO FLOOR BELOW. SEE P103 FOR CONTINUATION.
3. 3/4" DHWR DOWN TO FLOOR BELOW. SEE P103 FOR CONTINUATION.
4. CONNECT NEW DHW AND DCW LINES TO EXISTING BRANCH LINES SERVING FIXTURES.
KEYED NOTES

1. CONNECT COND LINE TO APPROVED TAILPIECE
2. COND LINE DOWN WALL TO MEP SINK. TERMINATE 2" ABOVE DRAIN FLANGE
3. PVC AND ELBOW DRAIN TO EXISTING FLOOR SINK. TERMINATE 2" ABOVE FLOOD LEVEL.

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KEYED NOTES

1. CONNECT COND LINE TO APPROVED TAILPIECE
2. COND LINE DOWN WALL TO MOP SINK. TERMINATE 2" ABOVE OVERFLOW RIM
### Domestic Water Heaters

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Make</th>
<th>Model</th>
<th>Input (Btu/h)</th>
<th>Efficiency %</th>
<th>Capacity (gal)</th>
<th>Voltage (V)</th>
<th>FLA (VA)</th>
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<tr>
<td>1</td>
<td>Domestic Water Heaters</td>
<td>A.O. Smith</td>
<td>BTH-250A</td>
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<td>100.0</td>
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### Recirculation Pump

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<tr>
<th>No.</th>
<th>Description</th>
<th>Make</th>
<th>Model</th>
<th>Flow (GPM)</th>
<th>Head (ft)</th>
<th>Motor HP</th>
<th>Voltage (V)</th>
<th>FLA (A)</th>
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<td>Recirculation Pump</td>
<td>Taco</td>
<td>0014-F1</td>
<td>4</td>
<td>22 1/8</td>
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### Expansion Tank

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<tr>
<th>No.</th>
<th>Description</th>
<th>Make</th>
<th>Model</th>
<th>Capacity (gal)</th>
<th>Max Pressure (psi)</th>
<th>Max Temperature (°F)</th>
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<td>Expansion Tank</td>
<td>Zurn Wilkins</td>
<td>WTTA-30</td>
<td>30</td>
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2. DWH SCHEMATIC
**LIGHT FIXTURE SCHEDULE**

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<tr>
<th>TYPE</th>
<th>DESCRIPTION</th>
<th>MANUFACTURER/MAKE/CATALOG/NUMBER</th>
<th>VOLTAGE</th>
<th>AMPERES</th>
<th>WATTS</th>
<th>LOCATION/DEPARTMENT</th>
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<tr>
<td>1</td>
<td>P. L. LAMPS</td>
<td>LEHIGH 120W MH 30K F82 1000</td>
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<td>W470</td>
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<td>10.5</td>
<td>1218</td>
<td>W470</td>
</tr>
</tbody>
</table>

**NOTES:**
- VOLTAGE: 120 volts
- AMPERES: 10.5 amp
- WATTS: 1218 watts
- LOCATION/DEPARTMENT: W470

**ELECTRICAL SCHEDULES**

NEW MEXICO TECH WEST HALL
NO MODIFICATIONS WILL BE MADE TO THE FIRE ALARM SYSTEM. WILL NEED TO BRING FIRE ALARMS DOWN TO NEW CEILING GRIDS.
NO MODIFICATIONS WILL BE MADE TO THE FIRE ALARM SYSTEM. WILL NEED TO BRING FIRE ALARMS DOWN TO NEW CEILING GRIDS.