ENGINEERS FOR A SUSTAINABLE FUTURE

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ERB MEMORIAL UNION - CRAFT CENTER
PACKAGE 1
900 SW Fifth Ave., Suite 1600
Portland, OR 97204
T. 503.227.5280 F. 503.274.7674

02.13.00545
JOSH CHECKIS
2013.12.20

PERMIT/CONSTRUCTION

12/18/2013 3:28:10 PM
DMC101

CRAFT CENTER
BASEMENT
FLOOR PLAN - MECHANICAL - DEMO

GENERAL NOTES

1. CONDITIONS SHOWN ARE BASED ON EXISTING DRAWINGS AND MAY NOT SHOW EXACT EXISTING CONDITION. CONTACT ARCHITECT IF ANY DEVIATIONS OR UNKNOWN CONDITIONS ARE ENCOUNTERED.

2. REFERENCE EXISTING AS-BUILT DRAWINGS FOR ADDITIONAL INFORMATION.

3. ALL EQUIPMENT, DUCTWORK, DIFFUSERS, GRILLES AND ALL PIPING PIPE APPURTENANCES SHALL BE REMOVED FROM AREA INDICATED. REMOVE ALL ASSOCIATED HANGERS, SUPPORTS, AND EQUIPMENT PADS. CAP AND SEAL ANY DUCTS OR PIPES WHICH ORIGINATE BEYOND THIS PROJECT'S BOUNDARY OF WORK.

4. PIPING ABOVE ELECTRICAL ROOM TO BE REROUTED AROUND THE ROOM.

5. EXISTING COPY ROOM. CONTRACTOR TO COORDINATE PHASED REMOVAL OF EXISTING DUCTWORK AND PROVIDING MEANS OF TEMPORARY VENTILATION.

6. CONTRACTOR TO COORDINATE PHASED REMOVAL OF HYDRONIC PIPES SERVING PERIMETER CONFERENCE ROOM CONVENTORS. SCOPE FOR FINAL DEMOLITION IS SHOWN HERE FOR CLARITY.

Sheet Notes

1. SCALE: 3/16" = 1'-0"
CRAFT CENTER MEZZANINE FLOOR PLAN - MECHANICAL DEMO

1. CONDITIONS SHOWN ARE BASED ON EXISTING DRAWINGS AND MAY NOT SHOW EXACT EXISTING CONDITION. CONTACT ARCHITECT IF ANY DEVIATIONS OR UNKNOWN CONDITIONS ARE ENCOUNTERED.

B. REFERENCE EXISTING AS-BUILT DRAWINGS FOR ADDITIONAL INFORMATION.

1. ALL EQUIPMENT, DUCTWORK, DIFFUSERS, GRILLES AND ALL PIPING PIPE APPURTENANCES SHALL BE REMOVED FROM AREA INDICATED. REMOVE ALL ASSOCIATED HANGERS, SUPPORTS, AND EQUIPMENT PADS. CAP AND SEAL ANY DUCTS OR PIPES WHICH ORIGINATE BEYOND THIS PROJECT'S BOUNDARY OF WORK.
GENERAL DEMO NOTES
A. DO NOT REMOVE ANY CONDUITS SERVING EXISTING TO REMAIN WALLS.
B. DO NOT REMOVE ANY CONDUITS SERVING EXISTING TO REMAIN WALLS.
C. FOR WALLS, SOFFITS, CASEWORK, CEILINGS, ETC. SHOWN TO APPEAR AS NEW CONSTRUCTION.
D. TELECOM OUTLET BOXES AND RACEWAYS, COORDINATE WITH GENERAL CONTRACTOR AND OWNER.
E. BRANCH CIRCUIT WORK SERVING THE EXISTING CORE AND ENCLOSURE TO REMAIN.
F. REMOVE ALL EXISTING BRANCH CIRCUIT CONDUCTORS AND CIRCUITING.
G. IF POSSIBLE, EXISTING BRANCH CIRCUIT HOMERUN WIRING BACK AND COIL UP FOR REUSE.
H. DAMAGE TO OTHER TRADE'S WORK AS A RESULT OF THIS WORK REQUIRED BECAUSE OF DISCERNIBLE CONDITIONS, THE BID PRICE. NO EXTRA PAYMENT WILL BE ALLOWED FOR THE OWNER AND TO THE COMPLETE SATISFACTION OF THE ENGINEER.
I. EXISTING WIRING WHERE SHOWN ON THE DRAWINGS IS THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE JOB SITE.
J. ALL SALVAGED LUMINAIRES, EXIT SIGNS, PANELS, DISTRIBUTION PANELS, TRANSFORMERS, ETC., REMOVED FROM THE JOB SITE.
K. ALL SALVAGED LUMINAIRES THAT ARE TO BE REUSED WITHIN-FUTURE CRAFT CENTER ELECTRICAL SERVICES. DEPTHS ON SHEETS ARE BASED ON AVAILABLE AS-BUILT DRAWINGS AND FIELD MODIFICATIONS TO THE EXISTING ELECTRICAL SYSTEMS SHALL REMAIN IN SERVICE DURING THE FULL EXTENT OF DEMOLITION.
L. LOCAL MAINTENANCE IN WIRE, CONDUIT AND ENCLOSURES WHICH IS NOT TO BE REMOVED. SUCH EXISTING-TO-BE-REMOVED EQUIPMENT, RECEPTACLES AND BRANCH CIRCUIT CONDUITS AND WIRING SERVING LUMINAIRES ARE TO BE REMOVED. INTENT IS TO REUSE THE BRANCH CIRCUIT CONDUITS AND WIRES ARE TO REMAIN AND BE REUSED IN LUMINAIRES THAT ARE TO BE REUSED WITHIN-FUTURE CRAFT CENTER ELECTRICAL SERVICES. DEPTHS ON SHEETS ARE BASED ON AVAILABLE AS-BUILT DRAWINGS AND FIELD MODIFICATIONS TO THE EXISTING ELECTRICAL SYSTEMS SHALL REMAIN IN SERVICE DURING THE FULL EXTENT OF DEMOLITION.
M. DO NOT REMOVE ANY CONDUITS SERVING EXISTING TO REMAIN WALLS.
N. EXISTING LUMINAIRES, ASSOCIATED CONDUIT AND WIRING, SHALL REMAIN THE PROPERTY OF THE OWNER.
O. THE EXISTING BUILDING INCLUDING PORTIONS OF THE BUILDING WHICH ARE TO BE DEMOLISHED REMOVE THE FOLLOWING:
EXISTING PLUMBING FIXTURES (3) WC'S, (2) UR'S (4) LAV'S & (2) FLOOR DRAIN'S TO BE DEMO'D

CAP CW BACK TO MAIN

CAP EXISTING HW, CW UP TO FLOOR ABOVE TO REMAIN AND RECONNECT IN PACKAGE 1 SCOPE

DEMO EXISTING PLUMBING FIXTURES

CAP HWR AT MAIN

CAP CW AT MAIN
DEVELOPER/OWNER
PROJECT: Memorial Union
OWNER: University of Wisconsin - Madison
ARCHITECT: HNTB
CONTRACTOR: Leopardo Industries
PROJECT MANAGER: MC&P
CORRESPONDENCE FROM: wyf@memorialunion.com
PHONE: 608-265-0161
ADDRESS: 1059 WIBBLE STREET
DATE: 8/15/2023

NARRATIVE DESCRIPTIONS
SITE EXISTING CONDITIONS:
The project site is adjacent to the existing Memorial Union and the new Erodes Protection Buildings. The site is level with some slight undulations.

SITE UTILIZATION:
The new buildings will provide additional space for visitors and employees, including a new restaurant and meeting facilities.

SITE ACCESS:
The site is accessible via the existing Memorial Union and the new Erodes Protection Buildings.

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Site Clearing and Protection Plan

**NOTES**

1. All survey information provided by Balzhiser Hubbard Engineers
   100 West 13th Ave
   Eugene, OR 97401
   P: (541) 686-8478
   F: (541) 345-5303
   Contact: Spencer Bugby
   Dated: Oct. 20th, 2011

2. See Architectural and Engineering Drawings for additional work.

3. Salvage and return to Owner Timber from removed trees unless unsalvageable by Fine, Than and Right. Remove all other good material along edges to aid in development of on-campus operations for reuse.

4. Cut, cap, or reconnect irrigation lines (mainlines and laterals) encountered during work to ensure existing irrigation system maintains in operation. Coordinate with UO Facilities Services.

5. Cut, cap, or reconnect irrigation lines (mainlines and laterals) encountered during work to ensure existing irrigation system maintains in operation. Coordinate with UO Facilities Services.

6. All survey information provided by Balzhiser Hubbard Engineers
   100 West 13th Ave
   Eugene, OR 97401
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   Dated: Oct. 20th, 2011

**LEGEND**

- **CONSTRUCTION/OWNER PROTECTION FENCING**
- **EXISTING TREE TO REMAIN**
  - Protect to Remain
  - Salvage Light Pole
  - Salvage Element

**PROJECT LIMIT**

- Approximate
- Existing Tree
- Existing Tree to Remove
- Existing Tree to Reman
- Salvage Light Pole
- Salvage Element

**EXISTING TREE TO REMOVE**

- See Note #3

**REMOVE ELEMENT**

- See Notes #3

**DEMO EXISTING LANDSCAPE**

- Grub out and remove stumps and sod.
- Stockpile suitable soil at campus operations for reuse.

**TREE REMOVAL SCHEDULE**

<table>
<thead>
<tr>
<th>Tree Type</th>
<th>Size (DBH)</th>
<th>Remove Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>T1</td>
<td>Pinus strobus</td>
<td>24&quot;</td>
</tr>
<tr>
<td>T2</td>
<td>Pinus torana</td>
<td>5&quot;</td>
</tr>
<tr>
<td>T3</td>
<td>Pinus contorta</td>
<td>20&quot;</td>
</tr>
<tr>
<td>T4</td>
<td>Acer macrophylla</td>
<td>36&quot;</td>
</tr>
<tr>
<td>T5</td>
<td>Betula pendula</td>
<td>14&quot;</td>
</tr>
<tr>
<td>T6</td>
<td>Tilia platyphyllos</td>
<td>14&quot;</td>
</tr>
<tr>
<td>T7</td>
<td>Prunus x yedoensis 'Akebono'</td>
<td>9&quot;</td>
</tr>
<tr>
<td>T8</td>
<td>Prunus x yedoensis 'Akebono'</td>
<td>9&quot;</td>
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<tr>
<td>T9</td>
<td>Liquidamber styraciflua</td>
<td>14&quot;</td>
</tr>
<tr>
<td>T10</td>
<td>Acer platanoides</td>
<td>22&quot;</td>
</tr>
<tr>
<td>T11</td>
<td>Aesculus hippocastanum</td>
<td>18&quot;</td>
</tr>
</tbody>
</table>

**ZONE OF PROTECTION FOR EXISTING TREES TO REMAIN**

- Salvage Element
- Removed Element

**Construction Center - Package 1**

- Issue Date: 12/20/2013
- Project No.: LC001
- Checked by: AAO/LKG

**ERB MEMORIAL UNION**

- Permit / Construction

- 11/8/2013 5:54:40 PM

- UNIVERSITY OF OREGON
  13TH AVENUE & UNIVERSITY STREET
1. All survey information provided by:
Balzhiser Hubbard Engineers
100 West 13th Ave
Eugene, OR 97401
P: (541) 686-8478
F: (541) 345-5303
Contact: Spencer Bugby
Dated: Oct. 20th, 2011

2. Verify exact locations and routing of existing underground utilities prior to starting excavation. Repair any damaged pipes, utilities or related facilities at Contractor's expense in a manner approved by Owner's Representative.

3. In addition to improvements shown, repair all areas disturbed or damaged by construction. Ensure that the final project is all areas repaired to the conditions that existed prior to construction.

4. All accessible components including, but not limited to signs, ramps, tactile warning, markings, etc. shall conform to all Oregon State Standards for parking and access for the disabled.

5. Cut, cap, or reconnect irrigation lines (mainlines and laterals) encountered during Work to ensure the existing irrigation system remains in operation.}

CONCRETE PAVING
Reinforced Profile
6" thick with reinforcement over 8" base
Pedestrian Profile
4" thick over 6" base

AAO/LKG
AREA DRAIN
See Civil
PLANT BED REPAIR
Install 3 inches of Bark Mulch over disturbed areas impacted by construction. See Note #5.

LAWN REPAIR
Install Soil Material as specified and based on the following preferences:
1. Install salvaged Topsoil material from excavated areas as approved by Landscape Architect.
2. Screen or process salvaged Topsoil as required by Landscape Architect to be suitable for re-use.
3. Use Imported Soil Material.

LR
PBR
HANDRAIL
Material: 1-1/2" OD galvanized steel tube
Anchor: Core drill and grout

REINFORCED CONCRETE REBAR
Glass-Fiber-Reinforced Concrete Reinforcement
STAINLESS STEEL REBAR
}
1. All survey information provided by Balzhiser Hubbard Engineers.

2. All accessible components remaining but not listed to remain are to be fitted with matching fixtures, etc. - staff members shall be in Oregon State Standards for building and accessibility.

3. Verify main locations and grading of existing underground utilities prior to bidding. Repairs any damage to existing pipes, utilities or other facilities at Contractor's expense in a manner approved by Owner's Representative.

4. Clear new work and verify dimensions. Prior to the insertion of all utilities, cores, pipes, etc. Owner's Representative prior to any new work. Repair any damaged to existing elements, utilities or related facilities at Contractor's expense in a manner approved by Owner's Representative.

5. All concrete paving units not specifically dimensioned shall be subject to approval by Owner's Representative.

6. All coordinates and dimensions are to be as shown or noted otherwise.

7. Barricade and protect trunks, limbs, roots and root zones beyond dripline of existing trees and plant materials to remain as directed by Landscape Architect. Cut no limbs or roots larger than 2" in diameter without approval of Landscape Architect.

8. Verify existing elevations where new work abuts existing to remain. Notify Owner's Representative of any discrepancies prior to any construction.

9. Adjust rim elevations of existing utilities so that rims are flush with finish grade at new paving and lawns.

10. Construct smooth transitions between new paving improvements and existing paving to remain.
### Table 1: Required Geotechnical Special Inspections

<table>
<thead>
<tr>
<th>Inspections</th>
<th>Frequency</th>
<th>Remarks</th>
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<tbody>
<tr>
<td>Foundation Soil Placement</td>
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CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, AND ELEVATIONS PRIOR TO FABRICATION AND ERECTION AND SHALL NOTIFY THE ARCHITECT AND ENGINEER OF ANY DISCREPANCIES FROM THE DRAWINGS. COORDINATE ALL DIMENSIONS, WALL LOCATIONS, DRAINS, SLAB SLOPES AND OPENINGS, STEPS, AND CURB ELEVATIONS WITH ARCHITECTURAL DRAWINGS.

REFERENCE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR SLEEVES, BLOCKOUTS, AND OTHER ITEMS TO BE COORDINATED WITH THE STRUCTURAL DRAWINGS.

INDICATES SPAN DIRECTION OF 1 1/2"-18 GA. TYPE B GALV. (G90) ROOF DECK.

INDICATES STEP OR SLOPE IN ROOF.

INDICATES TOP OF STEEL ELEVATION.

INDICATES BEAM MOMENT CONNECTION. REFERENCE DETAIL 8/SC601 FOR INFORMATION.

9. REFERENCE SHEET SC700 FOR TYPICAL METAL WALL STUD FRAMING DETAILS.

REFERENCES SHEET SC500 FOR TYPICAL METAL WALL STUD FRAMING DETAILS.
WEB FLAT PL 3/4x8
EXISTING ROOF METAL DECK AND CENTERED BENEATH NEW FLAT CHORD PL ABOVE, TYP.
HSS 4x4x1/4
WEB FLAT PL 3/4x8
PLACES
SC601
MECH. (10,500 #)
TYP. (4)
TO BEAM PLACES
SC602
W12x14
W14x38
W10x22
1'-0" 1'-0"
SC601
FLAT PL 3/4x8
WEB FLAT PL 3/4x8
SC500
SLOPE
W14x38
TYP.
SC601
W12x35
W12x14 W14x38
9'-2"
HSS 10x10x3/8
W12x26
BELOW
W10x22
ABOVE & BELOW
W10x22
R-1
W10x22
W10x22
BEFORE SAW CUTTING
PROVIDE BASE PL, A.B.'s, AND FULL DEPTH SHEAR TABS AT CL (E) CONC.
7"
SIM.
14
WEB FLAT PL 3/4x8 w/ L6x4x3/8 (LLV)
WEB FLAT PL 3/4x8 w/ L6x4x3/8 (LLV)
9
17
SC602
SC601
HSS 10x10x3/8
HSS 10x10x3/8
BELOW
BELOW
BELOW
BELOW
SC600
INFILL SLAB,
11
TYP. (4) PLACES
SC602
SC602
NOTE:
PACKAGE 1
ERB MEMORIAL UNION - CRAFT CENTER
PACKAGE 1
CRAFT CENTER ENLARGED
ROOF PLANS
SC153
REVISIONS:
FLEX DUCT TO DIFFUSERS, FIVE FOOT MAXIMUM LENGTH, SMOOTH
ASHRAE 62.1-2007 CRITERIA (SEE VENTILATION SCHEDULES)
LIGHTING: 1.2 W/SQ. FT., 0% OF LIGHTING HEAT TO PLENUM
ROOF: R30
ALL AREAS: COOLING 75°F, HEATING 68°F
SUPPLY AIR DUCT UPSTREAM OF VENTILATION DAMPERS: 0.10"WG OF
TOILET ROOMS: 75 CFM/FIXTURE
THE ELECTRICAL EQUIPMENT ROOM IS PROVIDED WITH A 2-PIPE
SUPPLY AIR DUCT DOWNSTREAM OF VENTILATION DAMPERS: 0.08"WG
ENTERING STEAM PRESSURE: 20 PSI
OREGON CLIMATE ZONE: 1

---

ABBREVIATIONS

---

PROJECT NO.: MC000

---

CONTACT:
engineers for a sustainable future

---

PERMIT/CONSTRUCTION

---

A. MECHANICAL EQUIPMENT SCHEDULED IN THIS CRAFT CENTER

---

B. MECHANICAL DETAILS

---

C. MECHANICAL CONTROLS DETAILS

---

D. DUCTWORK

---

E. HVAC DRAWING LIST

---

NOT ALL SYMBOLS OR ABBREVIATIONS ARE NECESSARILY USED ON THIS PROJECT.
**MAKEUP AIR HANDLING UNIT SCHEDULE**

<table>
<thead>
<tr>
<th>TAG NO.</th>
<th>MANUFACTURER</th>
<th>MODEL</th>
<th>LOCATION</th>
<th>MAKEUP AIR VOLUME (CFM)</th>
<th>AIR PRESSURE DROP (IN WG)</th>
<th>EFFICIENCY</th>
<th>TEMP (°F)</th>
<th>MEASUREMENT TYPE</th>
<th>TYPE</th>
<th>GLICHT OF VOLUME</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
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</tbody>
</table>

**2-PIPE COOLING FAN COIL UNIT SCHEDULE**

<table>
<thead>
<tr>
<th>TAG NO.</th>
<th>MANUFACTURER</th>
<th>MODEL</th>
<th>LOCATION</th>
<th>AIRFLOW (CFM)</th>
<th>AIR PRESSURE DROP (IN WG)</th>
<th>EAT (°F)</th>
<th>LAT (°F)</th>
<th>EFFICIENCY (BTU/H)</th>
<th>TYPE</th>
<th>FINS</th>
<th>ROWS</th>
</tr>
</thead>
<tbody>
<tr>
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</tbody>
</table>

**HEAT RECOVERY SCHEDULE**

<table>
<thead>
<tr>
<th>TAG NO.</th>
<th>MANUFACTURER</th>
<th>MODEL</th>
<th>LOCATION</th>
<th>AIRFLOW (CFM)</th>
<th>AIR PRESSURE DROP (IN WG)</th>
<th>EAT (°F)</th>
<th>LAT (°F)</th>
<th>EFFICIENCY (BTU/H)</th>
<th>TYPE</th>
<th>FINS</th>
<th>ROWS</th>
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</thead>
<tbody>
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**EXHAUST HOOD EQUIPMENT SCHEDULE**

<table>
<thead>
<tr>
<th>TAG NO.</th>
<th>MANUFACTURER</th>
<th>MODEL</th>
<th>LOCATION</th>
<th>FACE SIZE</th>
<th>COLOR</th>
<th>MATERIAL</th>
<th>OBD</th>
<th>NOTES</th>
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<tbody>
<tr>
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**DIFFUSER AND GRILLE SCHEDULE**

<table>
<thead>
<tr>
<th>TAG NO.</th>
<th>MANUFACTURER</th>
<th>MODEL</th>
<th>LOCATION</th>
<th>INLET SIZE (IN)</th>
<th>COLOR</th>
<th>MATERIAL</th>
<th>OBD</th>
<th>NOTES</th>
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</thead>
<tbody>
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**EXHAUST VARIABLE AIR VOLUME TERMINAL UNIT SCHEDULE**

<table>
<thead>
<tr>
<th>TAG NO.</th>
<th>MANUFACTURER</th>
<th>MODEL</th>
<th>LOCATION</th>
<th>AIRFLOW (CFM)</th>
<th>AIR PRESSURE DROP (IN WG)</th>
<th>EAT (°F)</th>
<th>LAT (°F)</th>
<th>EFFICIENCY (BTU/H)</th>
<th>TYPE</th>
<th>FINS</th>
<th>ROWS</th>
</tr>
</thead>
<tbody>
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**SUPPLY VARIABLE AIR VOLUME TERMINAL UNIT SCHEDULE**

<table>
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<tr>
<th>TAG NO.</th>
<th>MANUFACTURER</th>
<th>MODEL</th>
<th>LOCATION</th>
<th>AIRFLOW (CFM)</th>
<th>AIR PRESSURE DROP (IN WG)</th>
<th>EAT (°F)</th>
<th>LAT (°F)</th>
<th>EFFICIENCY (BTU/H)</th>
<th>TYPE</th>
<th>FINS</th>
<th>ROWS</th>
</tr>
</thead>
<tbody>
<tr>
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</tbody>
</table>

**EXHAUST FAN SCHEDULE**

<table>
<thead>
<tr>
<th>TAG NO.</th>
<th>MANUFACTURER</th>
<th>MODEL</th>
<th>LOCATION</th>
<th>AIRFLOW (CFM)</th>
<th>AIR PRESSURE DROP (IN WG)</th>
<th>RPM</th>
<th>BHP</th>
<th>SONES</th>
<th>V/PH</th>
<th>WEIGHT (LBS)</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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**SCHEDULES - MECHANICAL**

<table>
<thead>
<tr>
<th>PACKAGE</th>
<th>SHEET</th>
<th>SHEET NO.</th>
<th>PROCEDURE</th>
<th>LOCATION</th>
<th>SHEET TITLE</th>
<th>SHEET NO.</th>
<th>SHEET TITLE</th>
<th>SHEET NO.</th>
<th>SHEET TITLE</th>
<th>SHEET NO.</th>
<th>SHEET TITLE</th>
</tr>
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**ERB MEMORIAL UNION - CRAFT CENTER**

<table>
<thead>
<tr>
<th>CHECKED BY:</th>
<th>DATE</th>
<th>PACKAGE</th>
<th>SHEET NO.</th>
<th>SHEET TITLE</th>
<th>SHEET NO.</th>
<th>SHEET TITLE</th>
<th>SHEET NO.</th>
<th>SHEET TITLE</th>
<th>SHEET NO.</th>
<th>SHEET TITLE</th>
</tr>
</thead>
</table>

**Contact:**

T. 503.227.5280  F. 503.274.7674
Portland, OR 97204
900 SW Fifth Ave., Suite 1600

---

1. ELECTRICAL CONTRACTOR SHALL PROVIDE ACCESS TO ALL ELECTRICAL PARTS FOR INSPECTION.
2. PROVIDE ACCESS TO ALL ELECTRICAL PARTS FOR INSPECTION.
3. PROVIDE ACCESS TO ALL ELECTRICAL PARTS FOR INSPECTION.
4. PROVIDE ACCESS TO ALL ELECTRICAL PARTS FOR INSPECTION.
5. PROVIDE ACCESS TO ALL ELECTRICAL PARTS FOR INSPECTION.
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9. PROVIDE ACCESS TO ALL ELECTRICAL PARTS FOR INSPECTION.
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28. PROVIDE ACCESS TO ALL ELECTRICAL PARTS FOR INSPECTION.
29. PROVIDE ACCESS TO ALL ELECTRICAL PARTS FOR INSPECTION.
30. PROVIDE ACCESS TO ALL ELECTRICAL PARTS FOR INSPECTION.
31. PROVIDE ACCESS TO ALL ELECTRICAL PARTS FOR INSPECTION.
### HEATING WATER PARALLEL FAN POWERED TERMINAL UNIT SCHEDULE

<table>
<thead>
<tr>
<th>TAG NO.</th>
<th>MANUFACTURER</th>
<th>MODEL</th>
<th>LOCATION</th>
<th>EQUIP SERVED</th>
<th>AIRFLOW (CFM)</th>
<th>HEATING CAPACITY (BTU/H)</th>
<th>LAT DB (°F)</th>
<th>FLOW (GPM)</th>
<th>WPD (FT WG)</th>
<th>ELECTRICAL UNIT SIZE (L&quot;xW&quot;xH&quot;)</th>
<th>WEIGHT (LBS)</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>UH 1</td>
<td>MCQUAY</td>
<td>UHH-33</td>
<td>MECH ROOM</td>
<td>HOT WATER</td>
<td>630</td>
<td>21,000</td>
<td>96</td>
<td>2.5</td>
<td>0.12</td>
<td>3/4&quot;</td>
<td>120/1/60</td>
<td>1/15</td>
</tr>
</tbody>
</table>

1. FUSED DISCONNECT PROVIDED BY ELECTRICAL CONTRACTOR
2. INTEGRAL THERMOSTAT
3. SUSPEND UNIT FROM STRUCTURE

### UNIT HEATER SCHEDULE

<table>
<thead>
<tr>
<th>TAG NO.</th>
<th>MANUFACTURER</th>
<th>MODEL</th>
<th>AREA</th>
<th>SERVED</th>
<th>AIRFLOW (CFM)</th>
<th>PRIMARY AIR SUPPLY</th>
<th>EMERG POWER</th>
<th>HW REHEAT COIL UNIT SIZE (L&quot;xW&quot;xH&quot;)</th>
<th>OPER. WT. (LBS)</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>FPB 1</td>
<td>PRICE</td>
<td>FDV-3008</td>
<td>10</td>
<td>700</td>
<td>230</td>
<td>1250</td>
<td>0.25</td>
<td>0.5</td>
<td>120/1</td>
<td>No</td>
</tr>
<tr>
<td>FPB 2</td>
<td>PRICE</td>
<td>FDV-3008</td>
<td>10</td>
<td>700</td>
<td>230</td>
<td>1250</td>
<td>0.25</td>
<td>0.5</td>
<td>120/1</td>
<td>No</td>
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<tr>
<td>FPB 3</td>
<td>PRICE</td>
<td>FDV-3008</td>
<td>10</td>
<td>700</td>
<td>230</td>
<td>1250</td>
<td>0.25</td>
<td>0.5</td>
<td>120/1</td>
<td>No</td>
</tr>
<tr>
<td>FPB 4</td>
<td>PRICE</td>
<td>FDV-3008</td>
<td>10</td>
<td>700</td>
<td>230</td>
<td>1250</td>
<td>0.25</td>
<td>0.5</td>
<td>120/1</td>
<td>No</td>
</tr>
<tr>
<td>FPB 5</td>
<td>PRICE</td>
<td>FDV-3008</td>
<td>10</td>
<td>700</td>
<td>230</td>
<td>1250</td>
<td>0.25</td>
<td>0.5</td>
<td>120/1</td>
<td>No</td>
</tr>
</tbody>
</table>

1. UNIT TO PROVIDE 100% RECIRCULATED AIR IN UNOCCUPIED HEATING MODE
2. AIR PRESSURE DROP THROUGH BOX TO BE NO GREATER THAN 0.25"W.G.
3. PROVIDE WITH MINIMUM (2-ROW) COILS
4. UNIT VENDOR TO VERIFY COIL SELECTIONS
5. MAXIMUM NC-30 DISCHARGE AND RADIATED SOUND LEVELS AT 0.5" STATIC PD. NOISE RATING FOR FAN PLUS 100% PRIMARY AIR AND IN ACCORDANCE WITH ARI STANDARD 880.
6. PROVIDE WITH 1" DISPOSABLE FILTERS
7. LINING TYPE SHALL BE FIBER-FREE LINER
8. PROVIDE WITH SINGLE POINT CONNECTION & TOGGLE DISCONNECT SWITCH
9. PROVIDE NEMA 1 CONTROLS ENCLOSURE
10. PROVIDE UL CLASS II 24VAC TRANSFORMER

### VARIABLE FREQUENCY DRIVE SCHEDULE

<table>
<thead>
<tr>
<th>UNIT</th>
<th>MANUFACTURER</th>
<th>MODEL</th>
<th>CABINET SIZE (L&quot;xW&quot;xH&quot;)</th>
<th>MOTOR POWER (HP)</th>
<th>V/PH</th>
<th>RATED OUTPUT (A)</th>
<th>BYPASS</th>
<th>WEIGHT (LBS)</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>VFD 2</td>
<td>ABB</td>
<td>ACS-320</td>
<td>12x6x40</td>
<td>8.0</td>
<td>460/3</td>
<td>10.0</td>
<td>Yes</td>
<td>50</td>
<td>1-7</td>
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1. UNIT TO PROVIDE 100% RECIRCULATED AIR IN UNOCCUPIED HEATING MODE
2. UNIT TO PROVIDE 100% RECIRCULATED AIR IN UNOCCUPIED HEATING MODE
3. PROVIDE WITH COPPER COILS
4. PROVIDE WITH COPPER COILS
5. MAXIMUM NC-30 DISCHARGE AND RADIATED SOUND LEVELS AT 0.5" STATIC PD. NOISE RATING FOR FAN PLUS 100% PRIMARY AIR AND IN ACCORDANCE WITH ARI STANDARD 880.
6. PROVIDE WITH COPPER COILS
7. LINING TYPE SHALL BE FIBER-FREE LINER
8. PROVIDE WITH COPPER COILS
9. PROVIDE WITH COPPER COILS
10. PROVIDE WITH COPPER COILS
11. PROVIDE WITH COPPER COILS

### PUMP SCHEDULE

<table>
<thead>
<tr>
<th>UNIT</th>
<th>MANUFACTURER</th>
<th>MODEL</th>
<th>LOCATION</th>
<th>SYSTEM SERVED</th>
<th>TYPE</th>
<th>FLOW (GPM)</th>
<th>HEAD (FT WG)</th>
<th>MIN EFFICIENCY (%)</th>
<th>RPM</th>
<th>BHP</th>
<th>HP</th>
<th>V/PH</th>
<th>STANDBY</th>
<th>WEIGHT (LBS)</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>P 1</td>
<td>BELL AND GOSSET</td>
<td>80</td>
<td>MEZZANINE MECH ROOM</td>
<td>MUA-M-1</td>
<td>HOT WATER COIL</td>
<td>INLINE</td>
<td>24</td>
<td>15</td>
<td>50</td>
<td>1150</td>
<td>0.2</td>
<td>0.75</td>
<td>120/1</td>
<td>No</td>
<td>200</td>
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<tr>
<td>P 2</td>
<td>BELL AND GOSSET</td>
<td>80</td>
<td>MEZZANINE MECH ROOM</td>
<td>MUA-M-1</td>
<td>CHILLED WATER COIL</td>
<td>INLINE</td>
<td>48</td>
<td>30</td>
<td>50</td>
<td>1750</td>
<td>0.7</td>
<td>1</td>
<td>208/3</td>
<td>No</td>
<td>200</td>
</tr>
</tbody>
</table>

1. STARTER AND FUSED DISCONNECT PROVIDED BY ELEC CONTRACTOR.
2. PROVIDE NON-OVERLOADING MOTOR WITH ODP ENCLOSURE.
3. PROVIDE NEMA PREMIUM EFFICIENCY MOTOR.
4. PROVIDE VIBRATION ISOLATION AND SEISMIC RESTRAINT PER SPECIFICATIONS.
GENERAL NOTES
A. Sheet revisions accompanied by cost and time estimates are required for all changes in floor area and materials.

B. Sheet revisions accompanied by cost and time estimates are required for all changes in electrical work.

C. Sheet revisions accompanied by cost and time estimates are required for all changes in plumbing work.

D. Sheet revisions accompanied by cost and time estimates are required for all changes in mechanical work.

E. Sheet revisions accompanied by cost and time estimates are required for all changes in structural work.

F. Sheet revisions accompanied by cost and time estimates are required for all changes in HVAC work.

G. Sheet revisions accompanied by cost and time estimates are required for all changes in MEP work.

H. Sheet revisions accompanied by cost and time estimates are required for all changes in site work.

I. Sheet revisions accompanied by cost and time estimates are required for all changes in landscape work.

J. Sheet revisions accompanied by cost and time estimates are required for all changes in interior work.

K. Sheet revisions accompanied by cost and time estimates are required for all changes in furniture work.

L. Sheet revisions accompanied by cost and time estimates are required for all changes in equipment work.

M. Sheet revisions accompanied by cost and time estimates are required for all changes in technology work.

N. Sheet revisions accompanied by cost and time estimates are required for all changes in security work.

O. Sheet revisions accompanied by cost and time estimates are required for all changes in sustainability work.

P. Sheet revisions accompanied by cost and time estimates are required for all changes in LEED work.

Q. Sheet revisions accompanied by cost and time estimates are required for all changes in BIM work.

R. Sheet revisions accompanied by cost and time estimates are required for all changes in project management work.

S. Sheet revisions accompanied by cost and time estimates are required for all changes in project coordination work.

T. Sheet revisions accompanied by cost and time estimates are required for all changes in project administration work.

U. Sheet revisions accompanied by cost and time estimates are required for all changes in project scheduling work.

V. Sheet revisions accompanied by cost and time estimates are required for all changes in project budgeting work.

W. Sheet revisions accompanied by cost and time estimates are required for all changes in project accounting work.

X. Sheet revisions accompanied by cost and time estimates are required for all changes in project reporting work.

Y. Sheet revisions accompanied by cost and time estimates are required for all changes in project quality work.

Z. Sheet revisions accompanied by cost and time estimates are required for all changes in project compliance work.

A. Refer to architectural plans for louver size. Provide minimum free area of 28 SF at velocity not to exceed 650 FPM. Provide a minimum 24" plenum behind louver with flexible connection to equipment. Plenum shall enclose structure as required. Provide an airtight continuous air way.

B. Refer to architectural plans for louver size. Provide minimum free area of 26 SF at velocity not to exceed 650 FPM. Provide a minimum 24" plenum behind louver with flexible connection to equipment. Plenum shall enclose structure as required. Provide an airtight continuous air way.

C. Refer to architectural plans for louver size. Provide minimum free area of 2.0 SF at velocity not to exceed 650 FPM. Provide a minimum 18" plenum behind louver with flexible connection to equipment. Plenum shall enclose structure as required. Provide an airtight continuous air way. Maintain plenum separation from AHU relief air way.

D. Refer to piping riser diagrams for pipe routing. For clarity, piping is not drawn to scale in this location.
GENERAL NOTES

SHEET NOTES

1. Supply Air - Supply Air to

2. Dust Collector - Dust Collector to

3. Exhaust Air - Exhaust Air to

4. Louver - Louver provided by architecture. Refer to mechanical plans for required area.

5. Woodshop Dust Collector Connection with blast gate.

6. Woodshop Dust Collector Supply Air through existing dust collection filters.

CERAMICS KILN EXHAUST THROUGH WALL TO OUTDOORS.
CERAMICS KILN with self-powered exhaust
EXISTING DUST COLLECTOR TO BE RELOCATED TO NEW LOCATION. REFER TO PLANS.

LOW ROOF

MUG

1,000 CFM EA

18,000 CFM

16,600 CFM

510 CFM

700 CFM EA

700 CFM EA

700 CFM EA

1,000 CFM EA

12/18/2013 3:33:35 PM

PERMIT/CONSTRUCTION

11045

MC601
DPS FAN COIL, FILTER SECTION, AND DRIP PAN HANG FROM STRUCTURE WITH NEOPRENE ISOLATION HANGERS (TYP). BRASS FLEX HOSE KIT CONN. (TYPE). FULL PIPE SIZE REDUCER (TYP IF REQUIRED). 2" DEEP TRAP, MINIMUM P&T TAPS (TYP). BALANCING VALVE 2-WAY CONTROL VALVE.

CONDENSATE. RUN FULL SIZE TO DRAIN. SLOPE AT 8" PER FT. MIN. BALL VALVE (TYP). MANUAl AIR VENT COND DRAIN AND OVERFLOW CONN. (COOLING COILS ONLY). AIRFLOW DRIP PAN SLOPED TOWARD OVERFLOW DRAIN. ROUTE TIGHT TO WALL DOWN TO 6" AFF SHUTOFF VALVES IN CORRIDOR. RETURN SUPPLY.

NOTES:
1. WATER SHALL BE PIPED COUNTER FLOW TO AIRFLOW, SUPPLY AT BOTTOM.
2. LOCATE PIPING TO CLEAR ACCESS DOORS.
3. SHUTOFF VALVES TO BE BALL TYPE FOR SIZE 2" AND BELOW, AND BUTTERFLY FOR 2-1/2" AND ABOVE.
4. INSULATE PIPING, VALVES AND FITTINGS FROM PIPE MAINS TO COIL CONNECTIONS.
5. MULTIPLE DUTY VALVES ARE NOT ALLOWED.
6. MOUNT STRAINER AT LOW POINT. IF NOT POSSIBLE, PROVIDE SEPARATE DRAIN VALVE.

AIR FLOW PRESSURE AND TEMPERATURE TEST TAP (TYPICAL) UNION (TYP). RETURNSUPPLY SHUTOFF VALVE (TYP). 2 PIPE DIAMETERS-MIN STRAIGHT LENGTH. 5 PIPE DIAMETERS-MIN STRAIGHT LENGTH.

WATER COIL DIFFERENTIAL PRESSURE SENSOR/TRANSMITTER 1/4" OR 1/2" TUBING WITH BALL VALVE ISOLATION PRESSURE GAGE 1/4" OR 1/2" TUBING WITH BALL VALVE ISOLATION.

NOTES:
1. REFER TO PLANS AND SPECIFICATIONS FOR DIFFERENTIAL PRESSURE STATION LOCATIONS.
2. DIFFERENTIAL PRESSURE STATION LOCATIONS SHALL BE ACCESSIBLE FOR VIEW, SERVICE AND MAINTENANCE.
3. INSULATE ALL FITTINGS AND TUBING ON CHILLED WATER APPLICATIONS.
### MECHANICAL AND PLUMBING EQUIPMENT - ELECTRICAL CONNECTION SCHEDULE - CRAFT CENTER

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**NOTES:**
- Equipment connected to normal power source for Craft Center package phase only. Equipment to be refeed.
- Provide additional connection for condensate pump on same circuit.
- Refer to mechanical and plumbing plans for locations of equipment.
- All starters and VFDS by electrical.
- Lithonia Quantum LGM S W x G 120/277 Renovation and New Construction Package
- Canlet use Ceiling mount fixture mount on wall
- RAB VXKLED 13Y with GL200R Red Glass Globe 3500 K Red In Dark Room
- Architectural Lighting Works 3500 K IOPA#P32-LW-SC See drawings for fixture length
- RAB VXKLED 26Y-3/4 with GL100W 3000 K opal lens use Ceiling mount fixture mount on wall
- GD200 DS Guard and polycarbonate reflector
- RAB VXKLED 26Y-3/4 with GL200PRIS 3000 K opal lens In Hood
- Lithonia (Gotham) EV0 SQ 35/18 /4BR FL FL xx 3500 K
- Kenall Lighting MLHA 8 96 F MW PP 2 32 SB 1 xx xx 3500 K Fixture length varies see drawings.
- Cooper Metalux Provide fixture with chain hanger set and wire guard
- Cooper Metalux
- Hanging Hardware Supports and Power Feeds for AVSM
- Lithonia AVSM 232 MDR DLS MVOLT AILP 3500 K IOPA#P32-LW-SC See drawings for fixture length
- Cooper Metalux
- Lithonia C 2 32 MVOLT AILP HC WGCUN NST with  HC Chain Hanger 3500 K IOPA#P32-LW-SC Provide fixture with wire guard
- Cooper Metalux
- Lithonia AF 3 32 MVOLT AILP HC WGAFPV 3500 K IOPA#P32-LW-SC See drawings for fixture length
- Cooper Metalux
- Lithonia C 2 32 MVOLT AILP HC WGCUN NST with  HC Chain Hanger 3500 K IOPA#P32-LW-SC Provide fixture with wire guard
- Cooper Metalux
- Lithonia (Gotham) EV0 SQ 35/18 /4BR FL FL xx 3500 K
- Cooper Metalux
- Cooper Metalux
- Cooper Metalux
- Cooper Metalux
- Cooper Metalux
GENERAL NOTES

A. DASHED ELECTRICAL EQUIPMENT TO BE INSTALLED IN A FUTURE PHASE OF WORK. CONDUITS TO BE INSTALLED IN CRAFT CENTER PHASE, RUN BELOW SLAB AND STUB UP AT LOCATIONS INDICATED. PROVIDE PULL STRING, CAP AND SEAL EACH END.

B. COORDINATE SAW CUTTING AND CONDUIT ROUTING WITH STRUCTURAL. SEAL ALL CONDUITS AND PENETRATIONS TO AVOID WATER ENTRY INTO THE BUILDING.

SHEET NOTES

1. STUB AND CAP CONDUITS FOR NORTH ADDITION FOR FUTURE EXTENSION. PROVIDE LOCATING MEANS, PULL STRING AND CAP WATERTIGHT.

2. COORDINATE FOOTING AND WALL PENETRATION LOCATIONS WITH STRUCTURAL ENGINEER.

KEY PLAN (NTS)
GENERAL NOTES

1. REFER TO UNDERGROUND PLAN ON SHEET EC100 FOR CONDUIT ROUTING INFORMATION.

SCALE: 1/8" = 1'-0"

LEVEL 1 FLOOR PLAN - TRANSFORMERS

TRANSFORMER PRIMARY CONDUIT ROUTING

MEDIUM VOLTAGE CONDUIT ROUTING

MAIN ELECTRICAL 037 NORTH ELEVATION

MAIN ELECTRICAL 037 WEST ELEVATION
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1. PROVIDE 20A, 120V CONNECTION FOR CRAFT CENTER HVAC CONTROLS. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

A. EMERGENCY AND NORMAL POWER LIGHTING IS SHOWN CONNECTED TO PANEL BN1-4C. PROVIDE EMERGENCY (SHADED) LUMINAIRES WITH INTEGRAL BATTERY PACKS AND WILL BE CONNECTED SEPARATELY TO PANEL BN1-4C TEMPORARILY, LUMINAIRES WILL BE CONNECTED TO EMERGENCY POWER WHEN INSTALLED IN A LATER PHASE.

B. REFER TO MECHANICAL CONNECTION SCHEDULE FOR ADDITIONAL INFORMATION.
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**GENERAL NOTES**

1. PROVIDE CEILING MOUNTED CORD REEL. REFER TO SHEET EC300 FOR WORK THIS AREA.
2. PROVIDE PEDESTAL MOUNTED RECEPTACLE. REFER TO SHEET EC300 FOR FIRE ALARM AND SIGNAL EQUIPMENT INDICATED. VERIFY LOCATION AND DEVICE LOCATIONS.
3. PROVIDE SPECIALTY RECEPLTACLE TO MATCH OWNER PROVIDED EQUIPMENT.
4. ROUTE CONDUIT BENEATH SLAB TO SERVE INSTRUCTIONS ON SHEET EC800.
5. ROUTE ELECRICAL CONNECTION TO OWNER (W/amp Race) AND DOCUMENTED PRIOR TO ROUGH-IN.
6. REFER TO SHEET EC002 FOR ELECTRICAL CONNECTION LEGENDS AND ABBREVIATIONS.
7. REFER TO MECHANICAL FLOOR PLANS SHEET EC002 FOR ELECTRICAL CONNECTION REQUIREMENTS WITH OWNER AND EQUIPMENT INFORMATION. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
8. ROUTE ELECRICAL CONNECTION TO OWNER (W/amp Race) AND DOCUMENTED PRIOR TO ROUGH-IN.

**SHEET NOTES**

A. REFER TO SHEET EC000 FOR PROJECT GENERAL NOTES, CRAFT CENTER OVERALL POWER AND SIGNAL SHEET NOTES
B. REFER TO MECHANICAL CONNECTION SCHEDULE ON SHEET NOTES
C. REFER TO CRAFT CENTER OVERALL POWER AND SIGNAL SHEET NOTES
D. REFER TO MECHANICAL CONNECTION SCHEDULE ON SHEET NOTES

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**DESCRIPTION**

CRAFT CENTER - ENLARGED PLAN - GRAPHICS & PAINTING - POWER AND SIGNAL

**KEY PLAN (NTS)**

**PLAN**

ERB MEMORIAL UNION - CRAFT CENTER

**PACKAGE 1**

**PROJECT NO.:**

**ISSUE DATE:**

**CHECKED BY:**

**REVISIONS**

**CONTACT:**

T. 503.227.5280  F. 503.274.7674
900 SW Fifth Ave., Suite 1600
Portland, OR 97204

**PORTLAND, OR 97204**

**TM**

**PERMIT/CONSTRUCTION**

**PACKAGE 1**

**ENLARGED PLANS - ELECTRICAL**

**EC502**
### CRAFT CENTER - ENLARGED PLAN - JEWELRY/PHOTOGRAPHY/FIBERS - POWER AND SIGNAL

#### GENERAL NOTES
1. PROVIDE CEILING MOUNTED CORD REEL. REFER TO DETAIL WITH ARCHITECT PRIOR TO INSTALLATION.
2. PROVIDE PEDESTAL MOUNTED RECEPTACLE. REFER TO DETAIL WITH PLUMBING CONTRACTOR PRIOR TO INSTALLATION.
3. REFER TO CRAFT CENTER EQUIPMENT SCHEDULE AND DETAIL 1/EC801 FOR ADDITIONAL INFORMATION.
4. REFER TO SHEET EC000 FOR PROJECT GENERAL NOTES, 3. REFER TO CRAFT CENTER OVERALL FLOOR PLANS ON SHEET 5/EC801 FOR ADDITIONAL INFORMATION.

#### SHEET NOTES
- Refer to mechanical connection schedule on general notes.
- Refer to architectural connection schedule on sheet EC503.

#### CRAFT CENTER EQUIPMENT SCHEDULE AND DETAIL 1/EC801

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#### LEGENDS AND ABBREVIATIONS
- **AB** - Additional Building
- **B** - Basement
- **G** - Ground Floor
- **P** - Perimeter

---

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### GENERAL NOTES

1. **CONTRACTOR** shall be responsible for providing all necessary permits.
2. **CONTRACTOR** shall be responsible for providing all necessary insurance.
3. **CONTRACTOR** shall be responsible for providing all necessary operating licenses.
4. **CONTRACTOR** shall be responsible for providing all necessary materials.
5. **CONTRACTOR** shall be responsible for providing all necessary labor.
6. **CONTRACTOR** shall be responsible for providing all necessary equipment.
7. **CONTRACTOR** shall be responsible for providing all necessary tools.
8. **CONTRACTOR** shall be responsible for providing all necessary safety gear.
9. **CONTRACTOR** shall be responsible for providing all necessary site preparation.
10. **CONTRACTOR** shall be responsible for providing all necessary site clean-up.

### SHEET NOTES

1. **SHEET** shall be used on all branch circuits serving loads where the circuit conductors are based on copper conductors with THHN/THWN insulation.
2. **SHEET** shall be used on all branch circuits serving loads where the circuit conductors are based on aluminum conductors with THHN/THWN insulation.
3. **SHEET** shall be used on all branch circuits serving loads where the circuit conductors are based on copper conductors with AAC insulation.
4. **SHEET** shall be used on all branch circuits serving loads where the circuit conductors are based on aluminum conductors with AAC insulation.
5. **SHEET** shall be used on all branch circuits serving loads where the circuit conductors are based on copper conductors with AWC insulation.
6. **SHEET** shall be used on all branch circuits serving loads where the circuit conductors are based on aluminum conductors with AWC insulation.
7. **SHEET** shall be used on all branch circuits serving loads where the circuit conductors are based on copper conductors with AWC insulation.
8. **SHEET** shall be used on all branch circuits serving loads where the circuit conductors are based on aluminum conductors with AWC insulation.
9. **SHEET** shall be used on all branch circuits serving loads where the circuit conductors are based on copper conductors with AWC insulation.
10. **SHEET** shall be used on all branch circuits serving loads where the circuit conductors are based on aluminum conductors with AWC insulation.

### TRANSFORMER SCHEDULE

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### OTHER NOTES

1. **CONTRACTOR** shall be responsible for providing all necessary site preparation.
2. **CONTRACTOR** shall be responsible for providing all necessary site clean-up.
3. **CONTRACTOR** shall be responsible for providing all necessary materials.
4. **CONTRACTOR** shall be responsible for providing all necessary labor.
5. **CONTRACTOR** shall be responsible for providing all necessary equipment.
6. **CONTRACTOR** shall be responsible for providing all necessary tools.
7. **CONTRACTOR** shall be responsible for providing all necessary safety gear.
8. **CONTRACTOR** shall be responsible for providing all necessary permits.
9. **CONTRACTOR** shall be responsible for providing all necessary insurance.
10. **CONTRACTOR** shall be responsible for providing all necessary operating licenses.

### DIAGRAM

[Single-line diagram of the electrical system for Craft Center - Temporary Power, showing the transformer, feeder, and branch circuit connections and notes.]
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**Building Electrical Load Summary:**

**Panel: MDP BN1-2C**
- **Location:**
- **Voltage:** 208/120 V
- **AIC Rating:** 400 A
- **Main Amps:** 400 A
- **Supply From:**
- **Isol Ground Bar:** Yes
- **Integral TVSS:** Yes

**Panel: BN3-2C**
- **Location:**
- **Voltage:** 208/120 V
- **AIC Rating:** 400 A
- **Main Amps:** 400 A
- **Supply From:**
- **Isol Ground Bar:** Yes
- **Integral TVSS:** Yes

**Panel: BN4-2C**
- **Location:**
- **Voltage:** 208/120 V
- **AIC Rating:** 400 A
- **Main Amps:** 400 A
- **Supply From:**
- **Isol Ground Bar:** Yes
- **Integral TVSS:** Yes

**Panel: BN5-2C**
- **Location:**
- **Voltage:** 208/120 V
- **AIC Rating:** 400 A
- **Main Amps:** 400 A
- **Supply From:**
- **Isol Ground Bar:** Yes
- **Integral TVSS:** Yes

**Panel: BN6-2C**
- **Location:**
- **Voltage:** 208/120 V
- **AIC Rating:** 400 A
- **Main Amps:** 400 A
- **Supply From:**
- **Isol Ground Bar:** Yes
- **Integral TVSS:** Yes

**Panel: BN1-2C**
- **Location:**
- **Voltage:** 208/120 V
- **AIC Rating:** 400 A
- **Main Amps:** 400 A
- **Supply From:**
- **Isol Ground Bar:** Yes
- **Integral TVSS:** Yes
### PANEL: BN7-2C

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**MOUNTING:** RECESSED
**VOLTAGE:** 120/208 Wye
**INTEGRAL TVSS:** No
**DOUBLE-LUGS:** No
**ISOL GROUND BAR:** No
**SUPPLY FROM:** AIC RATING: MCB
**FEED-THRU LUGS:** 64 A 75 A 63 A

**BUS RATING:**
m | 300 VA | 100.00% | 300 VA
**L = LIGHTING TOTAL CONNECTED LOAD:** 24.1 kVA 67 A
**R = RECEPTACLE KVA AMPS:** 7630 VA 100.00% 7630 VA
**N = NONCONTINUOUS**
**K = KITCHEN SPARE CAPACITY:** 25.0% 25.00%
**M = MECH/EQUIP TOTAL DEMAND LOAD:** 25.1 kVA 70 A

**RATING:**
**MOUNTING:** SURFACE
**VOLTAGE:** 480/277 Wye
**DOUBLE-LUGS:** Yes
**ISOL GROUND BAR:** Yes
**INTEGRAL TVSS:** Yes

**PACKAGE 1**
**PERMIT/CONSTRUCTION**
**ENGINEERS FOR A SUSTAINABLE FUTURE**

Contact:
www.glumac.com
T. 503.227.5280 F. 503.274.7674
1. Align top of boxes to match equipment.
2. DO NOT MOUNT THERMOSTATS OR TEMPERATURE SENSORS ABOVE DIMMERS.
3. PROVIDE EXTRA SLACK CONNECTION CONTAINING PVC COVERED FLEXIBLE WIRES.
4. FOR 2S2W SHOWN ADJACENT ON PLAN, DISCONNECT SWITCH WHERE VFD'S PROVIDE SECURELY.
5. OWNER AND/OR REPRESENTATIVE PRIOR TO ROUGH-IN OF ELECTRICAL WORK. CONTRACTOR SHALL VERIFY FINAL LAYOUT WITH THE DIAGRAMMATIC AND SHOULD NOT BE USED FOR FINAL LAYOUT OF STRUCTURAL CEILING.
6. FOR OUTLETS IN AREAS WITH HARD CEILINGS: ROUTE CONDUITS INSIDE CEILINGS AND AS SHOWN.
7. INSTALL WHERE SHOWN THROUGH BACK OF BOX.
8. GFI RECEPTACLE - FEED WEATHERPROOF DUPLEX BOX WHERE BOX IS EXPOSED ON CONCRETE.
9. BUILT-UP ROOF CURB. OWNER OR REPRE-SENTATIVE PRIOR TO INSTALLING J-BOXES AND BACKBOXES.
10. OVER THOSE SHOWN ABOVE. CONTRACTOR SHALL ALWAYS REFER TO ARCHITECTURAL DRAWINGS PRIOR TO INSTALLING J-BOXES AND BACKBOXES.
11. INFORM ENGINEER OF CONFLICTS.
12. DO NOT MOUNT THERMOSTATS OR TEMPERATURE SENSORS ABOVE DIMMERS.
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### INTERCPTOR SCHEDULE

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**Sheet Notes**

1. Extend 1 1/2"HW, 2"CW, 3/4"HWR & 1"CA to existing mechanical room and connect to existing systems, provide new regulator for CA.
2. Contractor to coordinate with other trades in this location.
3. CAP 1/2"TRAP PRIMER LINE for future package.
4. CAP 4" SAN for future package.
5. 1/2" TRAP PRIMER LINE routed to AD-1, see civil drawings for exact location.
6. CAP 3/4"HW, 2"CW, 1/2"HWR for future package.

**Scale:** 1/4" = 1'-0"
1. 1/2"CW DN, WITH SOV, EXTEND 3/8"CW TO EACH WET SAW.
2. 1/2"HW, 1/2"CW, 2"SAN DN, 1 1/2"V UP.
3. 3/4"CW DN TO HB-1.
4. 1/2" CA TO OUTLET, PROVIDE REGULATOR & WATER SEPARATOR.
5. 1/2" NATURAL GAS, 1/2"O2 DN TO OUTLET W/SOV.
6. 1" NATURAL GAS, 1"O2 DN TO OUTLETS, EXTEND INDIVIDUAL LINES WITH QUICK DISCONNECTS TO EACH STATION.
7. 1/2"HW, 1/2"CW, 2"SAN DN, 1 1/2"V UP, PROVIDE MIXING VALVE AND TEMP WATER TO EYEWASH.
8. 1"CW DN TO TRAP PRIMER ASSEMBLY.
9. POC 3" VENT TO EXISTING VENT.
10. 3/4" CW TO HB-1.
11. 1/2" NATURAL GAS DN TO OUTLET W/SOV.
12. 2" VENT DOWN.
13. 1/2"HW, 1/2"CW, 2"SAN DN, 2"V UP. PROVIDE 1/2"MIXING VALVE AND EXTEND 1/2"HW, 1/2"CW, 1/2"TW TO SINK.
14. CAP 4" RD FOR FUTURE PACKAGE 2, 3, 4 & 5.
15. CONTRACTOR TO COORDINATE FINAL LAYOUT WITH OFCI EQUIPMENT IN COLLABORATION WITH ARCHITECT.
PROPOSED GAS METER LOCATION

TOTAL GAS LOAD = 4630 CFH

LENGTH = 150'-0"

PROVIDE FLEXABLE CONNECTION WITH SHUT OFF.
1. PAINT ALL GAS PIPING YELLOW.
2. DO NOT PAINT BRAIDED HOSE.
3. BRAIDED FLEXIBLE CONNECTION NOT ALLOWED OUTDOORS.
4. PROVIDE PRESSURE REGULATOR AS REQUIRED.

**GAS EQUIPMENT PIPE CONNECTION**

- **GAS CYLINDER**
- **GAS DISTRIBUTION**
- **GAS EQUPMENT**

**Notes:**
1. USE ALL GAS STAINLESS STEEL PIPING.
2. USE GL VS CPVC PIPING IN DUCTS.
3. PRESSURE REGULATORS MUST BE INSTALLED OUTSIDE EACH SPACE.

**Equipment:**
- 1" MG (1000 CFH)
- 3/4" MG (650 CFH)
- 1/2" MG (300 CFH)
- 1" MG (1200 CFH)
- 1 1/4" MG (1800 CFH)
- 1 1/2" MG (3140 CFH)
- 2" MG (4630 CFH)

**Dimensions:**
- 6" MINIMUM LENGTH
- DIRT LEG WITH CAP
- AGA APPROVED GAS SHUTOFF VALVE
- AGA APPROVED GAS INLET PIPE
- FLEXIBLE CONNECTION, 12" MAXIMUM LENGTH
- REDUCER AS NECESSARY

**Additional Information:**
- GAS RISER DIAGRAM
- SCALE: 12" = 1'-0"