**UNIVERSITY OF WASHINGTON**

**MEDIUM VOLT SWITCH AND CABLE REPLACEMENT**

**PROJECT NO. 207163**

<table>
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---

**ECASNE Engineering**

**PROJECT WORK**

**UNIVERSITY OF WASHINGTON**

**MEDIUM VOLT SWITCH & CABLE REPLACEMENT**

**PROJECT NO. 207163**

---

**ISSUE FOR CONSTRUCTION**
## WIRING SCHEDULE

<table>
<thead>
<tr>
<th>CONDUCTORS</th>
<th>CONDUCTORS</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHASE/NEUTRAL</td>
<td>GROUND</td>
</tr>
<tr>
<td>M/N</td>
<td>U</td>
</tr>
<tr>
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## 15kV ARMORED CABLE SCHEDULE

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<td>N/A</td>
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<tr>
<td>1500 BC</td>
<td>N/A</td>
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</table>

## GENERAL NOTES:
1. In the wiring schedule, "N" references neutral conductor, "G" references ground conductor, and "U" references phase conductor.
2. The wiring schedule defines the conductor size and phase/neutral conductors. The example shown in the conductors column is gendered by "U" and the column defined by "N".

## CONSTRUCTION NOTES:
1. PROVIDE AND INSTALL TIERED INTERLOCKED ARMORED CABLE IN MARY.
2. "D" denotes quantity three (3) conductors for phase conductors. (Hence, otherwise noted.)

## UNIVERSITY OF WASHINGTON
MEDIUM VOLT SWITCH & CABLE REPLACEMENT PROJECT NO. 20765

**Issued For Construction**
### General Notes
1. Proper All Electrical Terminations, and Grounding for a Complete Operable System
2. Clean Out Transformers Enclosure and Marking During Equipment Disposal

### Removal Construction Notes
- Start MV system at no. 16 to no. 160 of the building

### Construction Tasks

<table>
<thead>
<tr>
<th>Step</th>
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<th>LM</th>
<th>AT</th>
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<td>REMOVE 220 KV CABLE</td>
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<td>REASSEMBLE 220 KV CABLE</td>
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<td>REMOVE 1150 KV CABLE</td>
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### Electrical Details
- **University of Washington**
- **Medium Volt Switch & Cable Replacement**
- **Project No.: 20163**

### Issue for Construction
- **Issue B.**
CONTROL PANEL NAMEPLATE SCHEDULE

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</table>

20" 10"

XXXX-CP

GENERAL NOTES
1. SEE ISOMETRIC LAYOUTS AND SPACINGS.
2. PANELS SHALL CONFORM TO NEMA TD 70 AND TD 71 AND SHALL BE LSTN LABED.
3. PROVIDE "Part Shown" PART NUMBERS ON ALL PANELS.
4. PROVIDE NUMBERED SHELF BRACKETS ON BOTH SIDES OF SHELF. LINING CENTER OPEN FOR JUMPING, IF REQUIRED.
5. QUANTITIES SHOWN ARE A MANUAL CONTRACTOR TO ENSURE ALL MATERIALS ARE RECEIVED AND CONSIDERED IN THE IMPLEMENTATION OF THE PANELS. ANY COMPONENTS LISTED ARE IDEAL BUT NOT MANDATORY.
6. ALL TERMINAL SHelly BRACKETS SHOWN MUST BE SHORTED TO THE PANEL SHELF.
7. ALL TERMINAL BRACKETS SHOWN MUST BE SHORTED TO THE PANEL SHELF.
8. PROVIDE TERMINAL BRACKETS FOR ALL CIRCUITS IN PANEL. SHORT MOUNTED DEVICES SHALL HAVE BRACKETS ON BOTH SIDES OF THE DEVICES.
9. TERMINAL BOX MOUNTED DEVICES PROVIDE CONNECTORS WITH DISCONNECTING MEANS, BROWNING, WHEN NOT REQUIRE.
10. PROVIDE AND PROVIDE FOR ALL SHIELD MOUNTED TERMINAL BOXES AND DEVICES.

CONSTRUCTION NOTES
PARTIAL LEGEND:
1. TERMINAL BLOCK IN CONTROL PANEL
2. TERMINAL IN FIELD DEVICE
3. TERMINAL BLOCK IN W.C.
4. TERMINAL BLOCK IN CONSTRUCTION AREA

GENERAL NOTES:
1. PROVIDE CUTOUTS AND SYMBOLOGIES AS SHOWN.
2. PROVIDE TERMINAL BLOCKS AS NEEDED TO ALLOW FOR ADDITION OR REMOVAL OF COMPONENTS.
3. PROVIDE TERMINAL BLOCKS TO ALLOW FOR ADDITION OR REMOVAL OF SUPPLEMENTARY CIRCUIT BREAKERS.
4. PROVIDE TERMINAL BLOCKS TO ALLOW FOR ADDITION OR REMOVAL OF SUPPLEMENTARY CIRCUIT BREAKERS.
5. PROVIDE TERMINAL BLOCKS TO ALLOW FOR ADDITION OR REMOVAL OF SUPPLEMENTARY CIRCUIT BREAKERS.
6. PROVIDE TERMINAL BLOCKS TO ALLOW FOR ADDITION OR REMOVAL OF SUPPLEMENTARY CIRCUIT BREAKERS.
7. PROVIDE TERMINAL BLOCKS TO ALLOW FOR ADDITION OR REMOVAL OF SUPPLEMENTARY CIRCUIT BREAKERS.
8. PROVIDE TERMINAL BLOCKS TO ALLOW FOR ADDITION OR REMOVAL OF SUPPLEMENTARY CIRCUIT BREAKERS.
9. PROVIDE TERMINAL BLOCKS TO ALLOW FOR ADDITION OR REMOVAL OF SUPPLEMENTARY CIRCUIT BREAKERS.
10. PROVIDE TERMINAL BLOCKS TO ALLOW FOR ADDITION OR REMOVAL OF SUPPLEMENTARY CIRCUIT BREAKERS.

CONSTRUCTION NOTES:
- PROVIDE TERMINAL BLOCKS TO ALLOW FOR ADDITION OR REMOVAL OF SUPPLEMENTARY CIRCUIT BREAKERS.

CASANE Engineering
UNIVERSITY OF WASHINGTON
MEDIUM VOLT SWITCH & CABLE REPLACEMENT
PROJECT NO. 20163

issues FOR CONSTRUCTION

ISSUED BY
CHECKED BY
DRAWN BY
APPROVED BY
DATE
SHEET 1 OF 1
### General Notes
1. Prepare all materials, permits, and approvals for a complete operational system.
2. Clear out transformers, enclosures, and equipment during equipment startup.

### Removal Construction Notes
- Remove medium voltage switch thru equipment double door in transformer room.
- Disconnect switch position control wire and retain for new medium voltage switch installation.

### Proposed Task Sequence - Benson

<table>
<thead>
<tr>
<th>Step</th>
<th>Task Description</th>
<th>EC</th>
<th>UN/MS</th>
<th>AC</th>
<th>Notes</th>
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<td>Disconnect electrical equipment, removal, and installation plan for setting equipment in and out of Benson electrical system</td>
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<td>3</td>
<td>Coordinate project consultation and construction schedule, and electrical equipment removal, and installation plan with low voltage shop, civil, structural, and mechanical engineers, Benson electrical project manager, and Benson owner</td>
<td>X</td>
<td>X</td>
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<td>Identify, document, and review equipment with low voltage, and Benson engineering plan</td>
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<td>5</td>
<td>Prewire make-ready design, Prewire and assemble equipment</td>
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</table>

### Construction Tasks
1. Coordinate make-ready design thru Benson T&D from Benson shop to Benson in Benson electrical services.
   - This work to be coordinated with the Benson switchyard, Benson T&D, and Benson in Benson electrical services.
2. Coordinate the de-energization of Benson A.
3. Disconnect feeder 7277 PSS.
4. Remove switch 7277 PSS and disconnect switch 7277 PSS.
5. Install new switches 7277 PSS, 2 A.
6. Provide 6/0 ac feeder from 7277 PSS to transformer 1277 T11.
7. Provide 6/0 ac feeder from 7277 PSS through substation 7277 PSS.
8. Perform inspection and testing of new cable and splices on MW and WC.
9. Solder tie between Benson T&D from Benson.
10. Re-energize feeder WC.
11. Re-energize feeder WC.

---

**ECSNE Engineering**

**University of Washington**

**Medium Voltage Switch & Cable Replacement**

**Project No.: 201603**

**Benson Electrical Details**

**Issue For Construction**

**Drawing No.: E2.5**

**Rev.: A**

**Scale: C&D**

**Date: 06/01/17**

**Design by:**

**Issued by:**

---

**Benson MV Switch - Removal**

---

**Scatter-proof**
GENERAL NOTES:
1. PROVIDE ALL SUPPORTS, TERMINATIONS, AND CONSTRUCTIONS FOR A COMPLETE OPERATIONAL SYSTEM.

REMOVAL NOTES:
- DISCONNECT AND REMOVE EXISTING FEEDER ARMS FROM SWITCH 1120 PST BACK TO CABLE TRAY IN VOLT.
- DISCONNECT AND REMOVE EXISTING FEEDER ARMS FROM SWITCH 1130 PST BACK TO CABLE TRAY IN VOLT.
- DISCONNECT AND REMOVE EXISTING FEEDER ARMS FROM SWITCHES 1120 PST & 1130 PST TO PRIMARY SIDE OF TRANSFORMER 1120 PST, VACUUM DUST FROM TRANSFORMER AND PREPARE IT FOR RE-TERMINATION WITH NEW FEEDER.
- DISCONNECT EXISTING SWITCH 1120 PST & 1130 PST.
- DISCONNECT SWITCH POSITION CONTACT WIRE AND REMAINING WIRING FROM EXISTING SWITCH INSTALLATION.

CONSTRUCTION NOTES:
- PROVIDE SPICE ON EXISTING FEEDER ARMS TO CONNECT 2/0 AC CABLE TO NEW SWITCH 1120 PST.
- PROVIDE SPICE ON EXISTING FEEDER ARMS TO CONNECT 2/0 AC CABLE TO NEW SWITCH 1130 PST.
- PROVIDE 3/0 AC CABLE FROM SPICE ON FEEDER ARMS TO NEW SWITCH 1120 PST, PROVIDE ALL NECESSARY CABLE SUPPORTS AND TERMINATIONS, TERMINATE AT BOTH ENDS.
- PROVIDE 3/0 AC CABLE FROM SPICE ON FEEDER ARMS TO NEW SWITCH 1130 PST, PROVIDE ALL NECESSARY CABLE SUPPORTS AND TERMINATIONS, TERMINATE AT BOTH ENDS.
- PROVIDE 7/0 AC CABLE FROM NEW-SWITCHES 1120 PST TO 1130 PST PRIMARY SIDE OF TRANSFORMER 1120 PST, PROVIDE ALL NECESSARY CABLE SUPPORTS AND TERMINATIONS, TERMINATE AT BOTH ENDS.

ECSNE Engineering
AEC + BIM + M/E/P
www.ecsne.com - 206.522.3100

UNIVERSITY OF WASHINGTON
MEDIUM VOLT SWITCH & CABLE REPLACEMENT
PROJECT NO. 20163

BLOEDEL
A

BLOEDEL HALL ONE LINE DIAGRAM

ISSUE FOR CONSTRUCTION
GENERAL NOTES:
1. REMOVE ALL DISTRIBUTION TRANSFORMERS AND GROUNDING FOR COMPLETE SYSTEM.
2. CLEAR OUT TRANSFORMER ENCLOSURE AND MACHINES DURING EQUIPMENT INSTALLATION.

REMOVAL CONSTRUCTION NOTES:
- MAY ENGAGE TREE PROTECTION TO PROTECT LIVE LINE. EQUIPMENT STORED BELOW TREE. GROUNDING MARKER POST INSTALLED IN CONTACT WIRE AND DESIGN FOR TREE MOVEMENT.

<table>
<thead>
<tr>
<th>Step</th>
<th>Task Description</th>
<th>DC</th>
<th>UNI-AM</th>
<th>AC</th>
<th>Notes</th>
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<tr>
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<td>REMOVE MV TRANSFORMER AND CONSTRUCTION SCHEDULE</td>
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<td>COORDINATE ELECTRICAL EQUIPMENT REMOVAL AND INSTALLATION ALONG WIRE CONSTRUCTION SCHEDULE ON OUT OF SERVICE ELECTRICAL FEEDER</td>
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<td>3</td>
<td>COORDINATE MV TRANSFORMER INSTALLATION AND CONSTRUCTION DETAILS, AND ELECTRICAL EQUIPMENT REMOVAL AND RECONSTRUCTION PLAN WITH LINE TO REGIONAL MACHINIST AND BUILDING SUPERVISOR WORKING ON MV PROJECT</td>
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<td>X</td>
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<td>5</td>
<td>PERFORM WORK DEPENDING ON MATERIAL</td>
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</table>

CONSTRUCTION TASKS:
1. COORDINATE THE DE-ENERGIZATION OF FEEDER WIRE & WIRE ON SWITCHES 112D PSI & 112E PSI | X  | X      |    |       |
2. DE-ENERGIZE FEEDER WIRE | X  |        |    |       |
3. REMOVE WIRE FEEDER FROM SWITCH 112D PSI TO TRANSFORMER 112D PSI AND FROM SWITCH 112E PSI TO TRANSFORMER 112E PSI | X  |        |    |       |
4. REMOVE SWITCH 112E PSI | X  |        |    |       |
5. INSTALL NEW SWITCHES 112D PSI, 112E PSI AND NEW WIRES TO 112D PSI | X  |        |    |       |
6. DE-ENERGIZE FEEDER WIRE | X  |        |    |       |
7. REMOVE NO FEEDER FROM SWITCH 112D PSI TO TRANSFORMER 112D PSI AND FROM SWITCH 112E PSI TO TRANSFORMER 112E PSI | X  |        |    |       |
8. TERMINATE DE-ENERGIZED 112D PSI WIRE WHEREVER IP REQUIRES REMOVING GROUNDING | X  |        |    |       |
9. DE-ENERGIZE FEEDER WIRE | X  |        |    |       |
10. REMOVE SWITCH 112D PSI | X  |        |    |       |
11. PROVIDE JUMPS ACROSS 112D PSI | X  |        |    |       |
12. DE-ENERGIZE FEEDER WIRE | X  |        |    |       |
PARTIAL LEGEND:
W — TERMINAL BLOCK IN CONTROL PANEL
O — TERMINAL IN FIELD DEVICE
R — TERMINAL BLOCK IN MCC
T — TERMINAL IN MAIN

GENERAL NOTES:
1. FOR ARRANGEMENTS, LEGENDS, AND SYMBOLS SEE ISS 1.0.8.
2. PLX PANEL SHALL CONSIST OF 100V, 70A AND 70B AND SHALL BE UL 508
   APPROVED.
3. PROVIDE "NEO-51" WIRING NUMBER ON ALL WIRE.
4. PROVIDE "NEO-51" WIRING NUMBER ON BOTH SIDES OF SHQ. LUGS
   CENTER OPEN FOR JUMPING IF REQUIRED.
5. QUATTRO SHOWS ALL WIRE CONNECTIONS TO SUPPLY ALL MATERIALS
   AS REQUIRED TO PROVIDE COMPLETE AND OPERABLE SYSTEM.
   CONNECTION TO SUPPLY ALL WIRE/LUMINOUS MOUNTING MOUNTED PC. FOR REPAIR
   ON ALL COMPONENTS. UNLESS/ELSE MUST BE IDENTIFIED BY THE OWNER.
6. ON WALL, SHALL BE MOUNTED THE FULL LENGTH OR WORKING DEVICES AS
   SHOWN ON DRAFTING.
7. ALL WIRE/LUMINOUS WIRE COMPONENTS (PLX, RELAY, WIRE, TERMINAL, ETC.)
   SHALL BE SUPPLIED WITH THE PANEL.
8. PROVIDE PRIMARY WIRING FOR ALL CONNECTED IN PANEL. GOOD MOUNTED
   DEVICES SHALL HAVE WIRE ON INSIDE OF COVER.
9. PROVIDE AND ANNOYANCE FOR ALL ON WALL MOUNTED TERMINAL STRIPS AND
   DEVICES.

CONSTRUCTION NOTES:
1. PROVIDE WIRING INSTALL WIRING WITH CAN BE CONNECTED TO 1132-CP
   CONNECTORS.
2. RE-TERMINATE EXISTING CONTACT WIRING FOR PT AND PSZ.

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www.ecasne.com
Proud to be a Member of the NECA

REVISION
NO. DATE

ISSUE FOR CONSTRUCTION

UNIVERSITY OF WASHINGTON
MEDIUM VOLT SWITCH & CABLE REPLACEMENT
PROJECT NO. 20760

1132-CP WIRING DIAGRAM
HUBBEL HALL

PROJECT NO.
SCALE
DATE
DESIGN NO

PRODUCT NO.

1132-CP
CONSTRUCTION NOTES:

1. Re-terminate cables from LEU to new switch 12/4 PS & provide all necessary cable supports.*
2. Re-terminate cable from LEU to new switch 12/4 PS & provide all necessary cable supports.*
3. Re-terminate cable from switch to LEU 12/4 PS & provide all necessary cable supports.*
4. Re-terminate cable from switch to LEU 12/4 PS & provide all necessary cable supports.*
5. Re-terminate cable from switch to LEU 12/4 PS & provide all necessary cable supports.*
6. Re-terminate cable from switch to LEU 12/4 PS & provide all necessary cable supports.*
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27. Re-terminate cable from switch to LEU 12/4 PS & provide all necessary cable supports.*
28. Re-terminate cable from switch to LEU 12/4 PS & provide all necessary cable supports.*
29. Re-terminate cable from switch to LEU 12/4 PS & provide all necessary cable supports.*
30. Re-terminate cable from switch to LEU 12/4 PS & provide all necessary cable supports.*

GENERAL NOTES:

1. PROVIDE ALL SUPPORTS, TERMINATIONS, AND GROUNDING FOR A COMPLETE OPERATIONAL SYSTEM.
2. SEQUENCE CONSTRUCTION AND REMOVAL SUCH THAT WHEN INSTALLING SwitchES AND DE-INSTALLED, NEW SWITCHES ARE IN PLACE AND TERMINATIONS CAN BE MADE WITH LITTLE TO NO WORKING TIME.

REMOVAL NOTES:

1. DISCONNECT AND REMOVAL EXISTING SWITCHES IN LEU & LEU 12/4 PS & PROVIDE ALL SUPPORTS.*
2. DISCONNECT AND REMOVAL EXISTING SWITCHES IN LEU & LEU 12/4 PS & PROVIDE ALL SUPPORTS.*
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29. DISCONNECT AND REMOVAL EXISTING SWITCHES IN LEU & LEU 12/4 PS & PROVIDE ALL SUPPORTS.*
30. DISCONNECT AND REMOVAL EXISTING SWITCHES IN LEU & LEU 12/4 PS & PROVIDE ALL SUPPORTS.*
## General Notes

- PROTECT ALL SUPPORTS, CONCESSIONS, AND EARTHWORK FOR A COMPLETE OPERABLE SYSTEM
- GROUNDED TRANSFORMER ENCLOSURE AND WIRINGS DURING EQUIPMENT REMOVAL

## Removal Construction Notes

- SWING BY MV SWITCHES TO 600 V IN THE OUT OF THE BUILDING.
- ENSURE SAFETY POUCHES CORRECTLY AND VIDE TAPP OFF NO MV SWING WORKING.

### Condon MV Switch - Removal

**Preconstruction/Engineering**

<table>
<thead>
<tr>
<th>Step</th>
<th>Task Description</th>
<th>EC</th>
<th>Upload</th>
<th>AC</th>
<th>Notes</th>
</tr>
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<tr>
<td>1</td>
<td>Develop Project Design and Construction Schedule</td>
<td>X</td>
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<tr>
<td>2</td>
<td>Develop Electrical Equipment Removal and Installation Plan for MV Switch Equipment in and Out of Condon Electrical</td>
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<td>3</td>
<td>Coordinate Project Design and Construction Schedule, and Electrical Equipment Removal, and Installation Plan with Low-Voltage, HVAC, Building Management, Health and Safety, and Building Occupants for LV Project Manager</td>
<td>X</td>
<td>X</td>
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<td>4</td>
<td>Identify Disassembly Limits/Constraints with Low-Voltage, HVAC, Building Management, Health and Safety, and Building Occupants for LV Project Manager</td>
<td>X</td>
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<tr>
<td>5</td>
<td>Perform Pre-Work for Clean and Inspect Equipment</td>
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**Construction**

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<th>Step</th>
<th>Task Description</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Coordinate the Re-Incorporation of MV Switches</td>
<td>THIS WORK TO BE COORDINATED SO THAT THREE WEEKS WILL NOT BE OVERLAP.</td>
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<td>2</td>
<td>Electrical Fuses for</td>
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<tr>
<td>3</td>
<td>Remove MV Switches from Transformer</td>
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<tr>
<td>4</td>
<td>MV Switch 1124/600</td>
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<td>MV Switch 1124/600, Switches 1124, PM 7 &amp; 8</td>
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<td>6</td>
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<td>12</td>
<td>MV Switch 1124/600, Switches 1124, PM 7 &amp; 8</td>
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</table>

**Electrical Details**

- UNIVERSITY OF WASHINGTON MEDIUM VOLTAGE Switch & Cable Replacement Project No. 20163

**Condon**

- Electrical Details
  - Project No.
  - Sheet:
  - Date:
  - Edited By:
  - Drawing No.
  - Issue For Construction
VAULT CPS TO VAULT CP2 - REMOVAL

VAULT CPS TO VAULT CP2 - REVISED

GENERAL NOTES:
1. PROVIDE ALL SUPPORT, TERMINATIONS AND ENCLOSURES FOR COMPLETE SYSTEM.
2. REMOVE THE NUMBER OF 4-WIRE SPACES REQUIRED TO INSTALL GAI D4.
3. PROVIDE BACK-PUSHING CABLES WITH WHITE LABELS.

REMOVAL CONSTRUCTION NOTES
1. REMOVE EXISTING FEEDER WIRING FROM CPS 11 TO VAULT CPS.
2. REMOVE EXISTING FEEDER WIRING FROM CPS 12 TO VAULT CPS.
3. SEE E4.4 FOR WORK COMPLETED NEEDS VAULT CPS AND 4.11 FOR R.D. ALTERNATE WORK IN VAULT CPS.
4. REMOVE EXISTING SPACES FROM FEEDER WIRING AND WIRING.

CONSTRUCTION NOTES
1. PROVIDE 2/0 4-WIRE CABLE FROM CPS 11 TO NEW CPS 12 THROUGH VAULT TO NEW 4-WIRE JUNCTIONS CPS 13 AND CPS 14. PROVIDE ALL NEEDED CABLE SUPPORTS AND TERMINATIONS. TERMINATE AT BOTH ENDS.
2. SEE E4.4 FOR WORK COMPLETED NEEDS VAULT CPS AND 4.11 FOR R.D. ALTERNATE WORK IN VAULT CPS.
3. PROVIDE 2/0 4-WIRE CABLE FROM CPS 12 TO NEW JUNCTION CPS 13 AND CPS 14. PROVIDE ALL NEEDED CABLE SUPPORTS AND TERMINATIONS. TERMINATE AT BOTH ENDS.
4. PROVIDE 2/0 4-WIRE CABLE FROM CPS 13 AND CPS 14 TO NEW JUNCTION AND TERMINATE FOR CPS 15 AND CPS 16. PROVIDE ALL NEEDED CABLE SUPPORTS. INSTALL JUNCTION BOXES IN VAULT CPS.

CONVENTIONS:
- DO NOT DISTURB
- SHARED WIRE STUDY
- ARROWS REPRESENT FLOW DIRECTION

E.CASNE Engineering

PROJECT NAME: UNIVERSITY OF WASHINGTON
MEDIUM VOLT SWITCH & CABLE REPLACEMENT PROJECT NO. 20163

REVAMP DATE:

VAULT CPS TO VAULT CP2
PARTIAL ONE LINE DIAGRAM

BID ALTERNATIVE ISSUE FOR CONSTRUCTION

REV. DATE SCALE DRAWN CHECKED BY

DRAWN BY

DESIGNED BY

E2.2

PARM. NO.

PACK NO.

ISSUE NO.
GENERAL NOTES:
1. PROVIDE ALL SUPPORTS, TERMINATIONS AND ENCLOSURES FOR A COMPLETE SYSTEM.
2. START CABLE REPAIR AT SHOW JUNCTION CPT 133 AND END.
3. INSTALL THE NAMING OF ALL LINE SIZING REQUIRED TO INSTALL.
4. PROVIDE BLACK POLYETHYLENE CABLE SIZE WITH WHITE LETTERING TO IDENTIFY.

REMOVAL CONSTRUCTION NOTES

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CONSTRUCTION NOTES
VAULT CP2 UPPER LEVEL - REMOVAL

VAULT CP2 UPPER LEVEL - REVISED

GENERAL NOTES:
1. PROVIDE ALL SUPPORTING, BRACING, AND GRONDING FOR A COMPLETE SAFETY SYSTEM
2. WIRE THE NUMBER OF ALL LIVE WIREs REQUIRED TO FILL ALL CABLE Holes
3. PROVIDE BACK HANGING CABLE TRUNK WITH WRITE LETTERING TO ENSURE

REMOVAL CONSTRUCTION NOTES
1. COORDINATE WITH UP TO DETERMINE APPROPRIATE AND NON-
SPRING SMOKE AND COMBINATION TO REDUCE NON-JUNCTION
HOUSING AND EXTERIOR INSTALLATION

CONSTRUCTION NOTES
1. PROVIDE NON-JUNCTION BOX AND ECUING FOR CP2 411 AND
2. PROVIDE ALL NEEDED EQUIPMENT TO SUPPORT AND
3. TERMINATE CABLES
4. COORDINATE WITH UP TO REMOVE EXISTING CABLES
5. AND COORDINATE CABLE INSTALLATION IF MORE SPACE IS NEEDED

CONFLICT:
DO NOT DISTRIBUTE
SHARED WITH COMPLETE
RECEIVED DOCUMENTS FROM ARCHITECTS AND ENGINEERS.
GENERAL NOTES:
1. PROVIDE 3/8" CORDAGE, WINDING AND GRUBS IN FOR A COMPLETE SYSTEM INSTALLATION.
2. REMOVE THE NUMBER OF ALL LINE WIRES REQUIRED TO NON-ALC CABLE RACK.
3. PROVIDE BACK PLASTIC CABLE TIES WITH LACING TO EXHIBITS.

REMOVAL CONSTRUCTION NOTES

CONSTRUCTION NOTES
1. PROVIDE NEW JOINT BOX AND CORDAGE FOR CPT, 4, 5, 7, AND 8. PROVIDE ALL NECESSARY EQUIPMENT TO SUPPORT CABLES AND TERMINATE CABLE.

2. RE-TERMINTATE EXISTING CABLE USING SWITCH 1947, 551 AND 552, A JUMP WIRE CABLE TO NEW JUMO CABLE PISTON CPT, 7, 8, AND 12, PROVIDE ALL NECESSARY EQUIPMENT TO SUPPORT AND TERMINATE CABLE.

REFERENCES:

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E-mail: info@casne.com

PROJECT NAME:
UNIVERSITY OF WASHINGTON
MEDIUM VOLT SWITCH & CABLE REPLACEMENT
PROJECT NO. 20163

REVISED ISSUE: 1

VAULT CP1 UPPER LEVEL - PLANS

ISSUE FOR CONSTRUCTION

INDEX

SCALE: 1/2" = 1'-0"
GENERAL NOTES:
1. PROVIDE ALL SUPPORT, TERMINATIONS AND COTHERINGS FOR A COMPLETE SPANNED SYSTEM.
2. MARK THE NUMBER OF IN-LINE SPACERS REQUIRED TO INSTALL CABLE HANGER.
3. PROVIDE BACK FLUSH CABLE JUGS WITH WHITE LETTERING TO CODE.

REMOVAL CONSTRUCTION NOTES
- REMOVE EXISTING FEEDER Web FROM VAULT OPT TO VAULT NW3.
- REMOVE EXISTING FEEDER Web FROM VAULT OPT TO VAULT NW3.

CONSTRUCTION NOTES
- PROVIDE STEEL CABLE FROM VAULT NW3 UPPER LEVEL TO CABLE HANGER TO VAULT NW3.
- PROVIDE MODEN AC CABLE FROM VAULT NW3 UPPER (EXCEL) TO CABLE HANGER FROM THE BOTTOM TO VAULT NW3.
- INSTALL CABLE IN TOP END 6% FROM THE BOTTOM CABLE RANK FROM VAULT TO LINE.

CARTER ENGINEERING

UNIVERSITY OF WASHINGTON
MEDIUM VOLT SWITCH & CABLE REPLACEMENT
PROJECT NO. 20160

VAULT NW3 UPPER LEVEL - PLANS

ISSUE FOR CONSTRUCTION