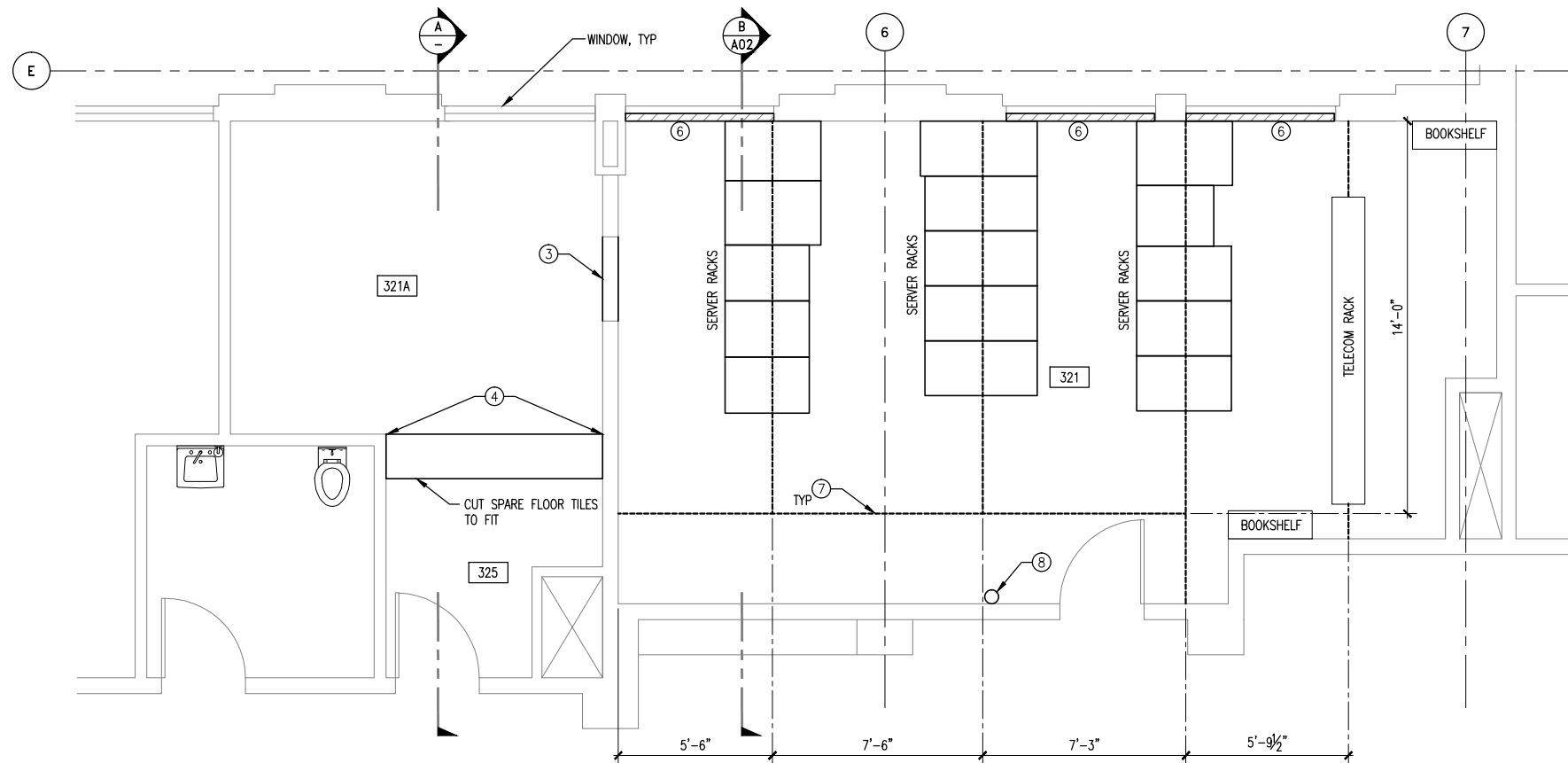


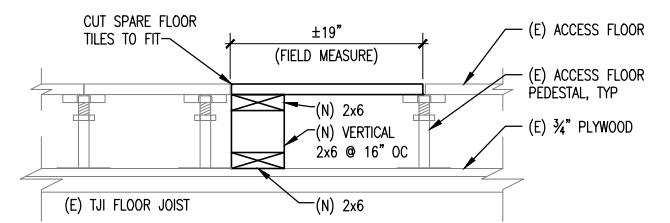
PHASE 1-PARTIAL 3RD FLOOR PLAN-DEMOLITION
3/8"=1'-0"



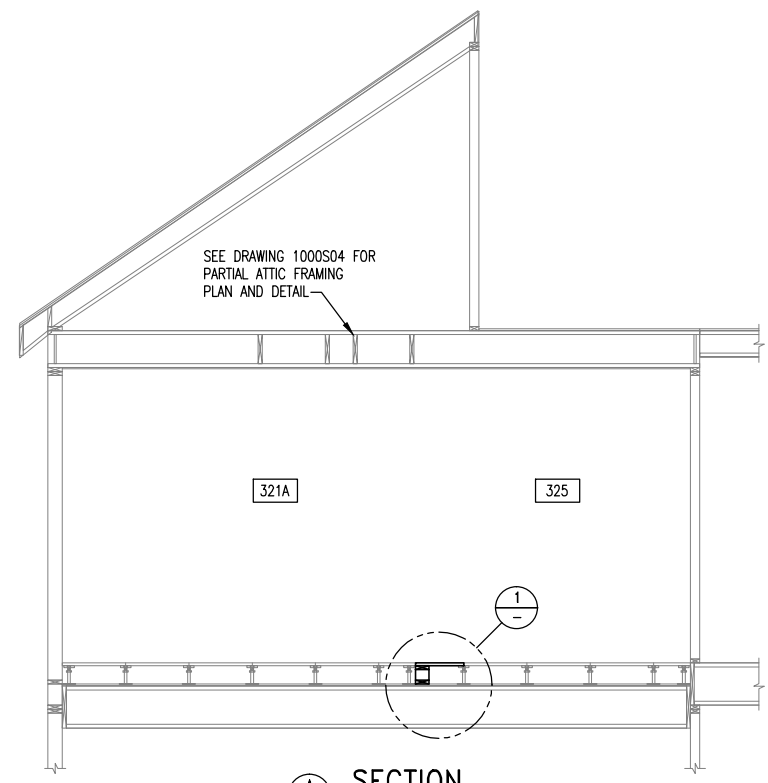
PHASE 1-PARTIAL 3RD FLOOR PLAN-NEW
3/8"=1'-0"

KEYED NOTES:

- ① REMOVE DOOR AND FRAME.
- ② REMOVE WALL.
- ③ FILL DOOR OPENING WITH 2x6 WOOD STUDS TO MATCH EXISTING CONSTRUCTION.
- ④ PATCH AND PAINT WALL TO MATCH EXISTING FINISH.
- ⑤ NOT USED.
- ⑥ COVER WINDOW WITH 2" XPS RIGID FOAM INSULATION. PAINT WINDOW FACING SIDE OF INSULATION FLAT BLACK AND INTERIOR FACING SIDE OF INSULATION TO MATCH WALL COLOR.
- ⑦ STRIP CURTAINS, SEE 1000A02. STRIP CURTAINS MAY LIMIT FIRE PROTECTION BY EXISTING SPRINKLER SYSTEM. SEE SPRINKLER/FIRE ALARM NOTE ON SHEET 100G01.
- ⑧ CONTRACTOR TO FURNISH AND INSTALL NEW FIRE EXTINGUISHER WITH WALL HANGER, HALOTRON 1, 5 LB CAPACITY, AMEREX #B386T OR SIMILAR.



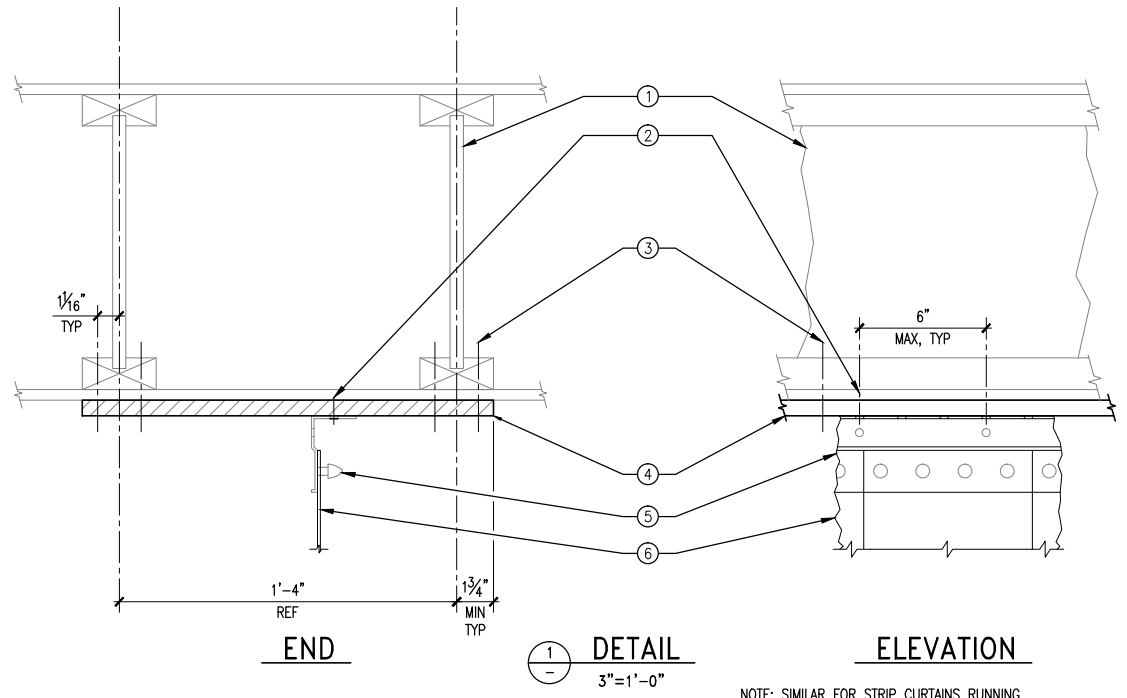
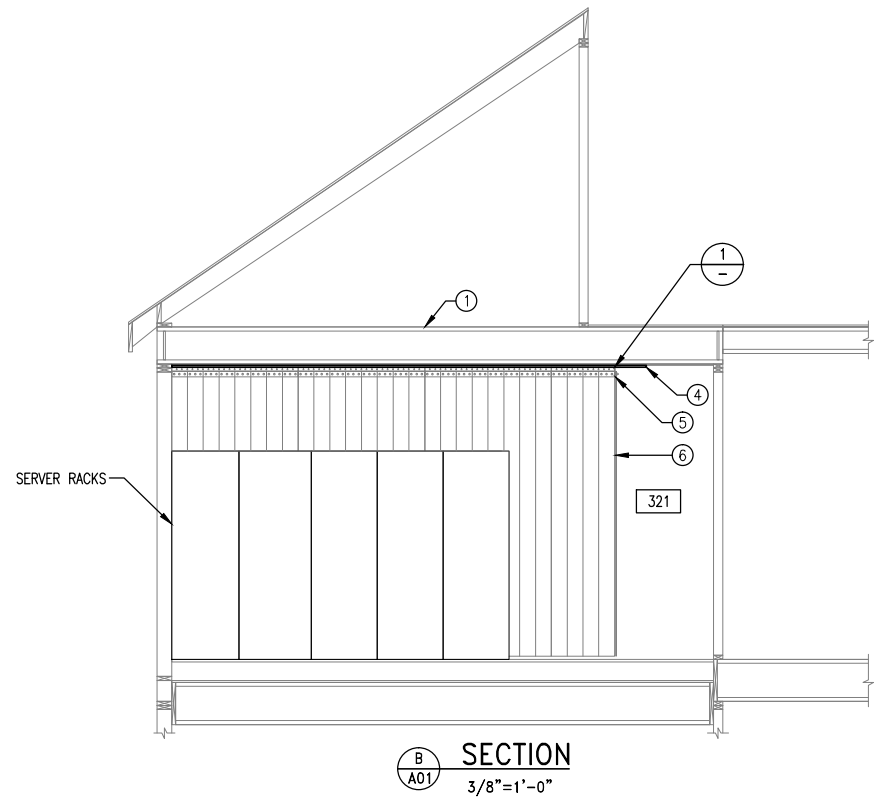
①
1 1/2"=1'-0"



A-A
3/8"=1'-0"

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CLIENT: UNIVERSITY OF OREGON COMPUTER & INFORMATION SCIENCE DEPT. LOCATION: EUGENE, OREGON	DRAWN: ISK CHECKED: ISK DATE: 5/17/13 PLS. DATE:
TITLE: DESCHUTES HALL MACHINE ROOM UPGRADES ROOM 321 & 325 WALL MODIFICATIONS	JOB #: 2471.1 CLIENT REF #:
REV: 0 DRAWING #: 1000A01	REV: 0 PLS. BY:
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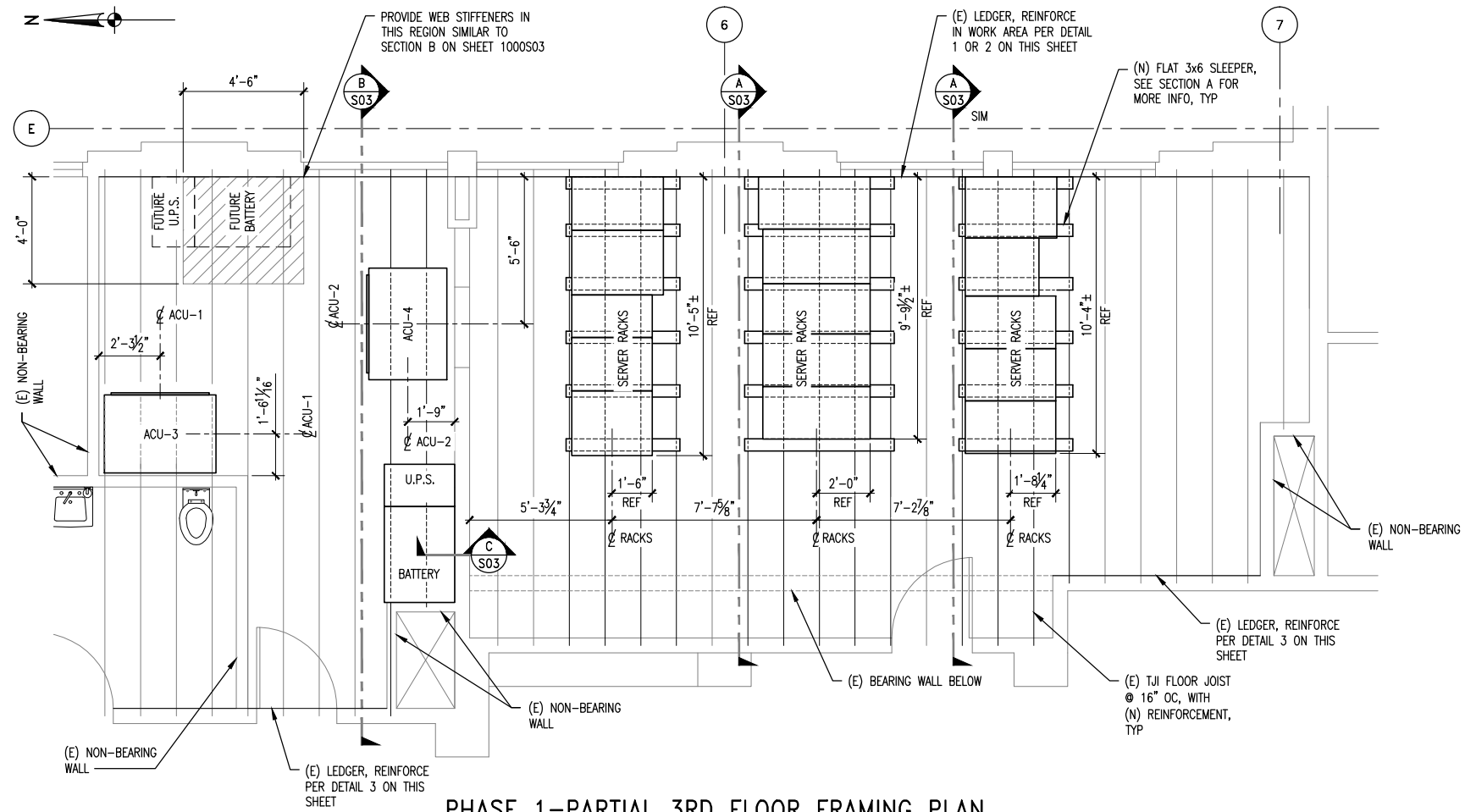
- ① (E) TJI SUPPORT JOISTS.
- ② 1/4"x1" WOOD SCREWS, 6" OC MAX.
- ③ (2) 1/4"x3" WOOD SCREWS @ EA JOIST, 24" OC.
- ④ 3/4" FINISH - AC PLYWOOD SANDED AND PAINTED TO MATCH EXISTING.
- ⑤ PRESS-ON STRIP CURTAIN MOUNTING HARDWARE, SIMILAR TO McMASTER CARR #8460A85. CONTRACTOR FURNISHED AND INSTALLED.
- ⑥ ANTI-STATIC STRIP CURTAIN, 8" W x 0.08" THICK x 9'-0" TALL STRIPS SIMILAR TO McMASTER CARR #8460A85. CONTRACTOR FURNISHED AND INSTALLED.

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CLIENT: UNIVERSITY OF OREGON COMPUTER & INFORMATION SCIENCE DEPT. EUGENE, OREGON	
LOCATION: EUGENE, OREGON	
DESIGNER: ISK	DATE: 5/17/13
DRAWING #: 1000A02	JOB #: 2471.1
CLIENT REF #:	CLIENT REF #:

CAD FILE:
 1000A02.dwg
 1/4/13

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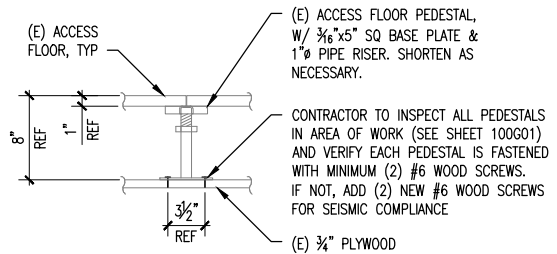
PHASE 1 - PARTIAL 3RD FLOOR FRAMING PLAN
3/8"=1'-0"

MECHANICAL EQUIPMENT:

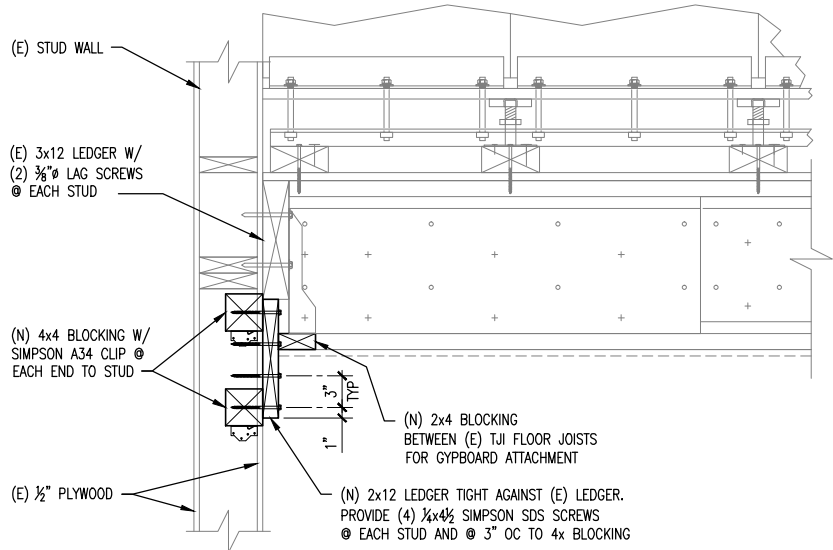
- A. AIR CONDITIONER MAXIMUM WEIGHT = 900 lbs.
- B. U.P.S. CABINET MAXIMUM WEIGHT = 640 lbs.
- C. BATTERY CABINET MAXIMUM WEIGHT = 3245 lbs.
- D. SERVER RACK MAXIMUM WEIGHT = 1500 lbs.

GENERAL NOTES:

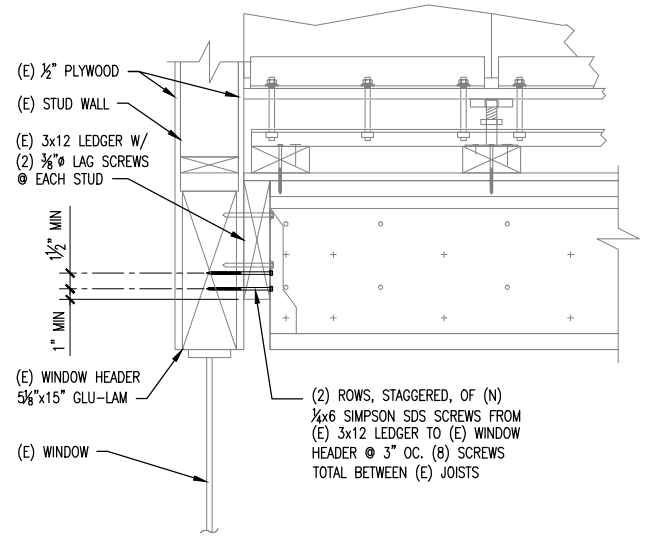
- A. SEE PROJECT NOTES ON SHEET 1000S01.
- B. (E) DENOTES EXISTING FRAMING TO REMAIN, (N) DENOTES NEW FRAMING.
- C. ACCESS FLOOR AND FLOOR PLYWOOD MAY BE REMOVED AS REQUIRED TO INSTALL NEW FLOOR JOISTS AND REINFORCE LEDGER. WHERE PLYWOOD HAS BEEN REMOVED, IT SHALL BE REPLACED AND EDGE NAILED PER THE ORIGINAL DRAWINGS (4" OC AT PANEL EDGES, 10" OC FIELD). IF PARTIAL SHEETS ARE REMOVED, ALL NEW PANEL EDGES SHALL BE EDGE NAILED TO (N) OR (E) 2x BLOCKING.



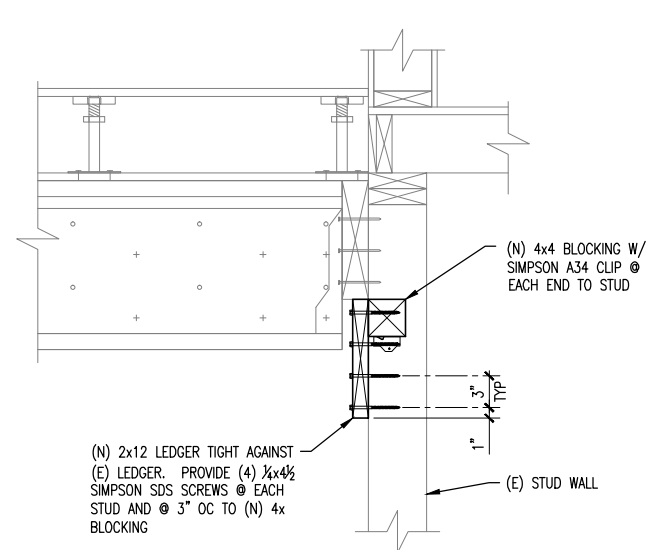
4 FLOOR SUPPORT
1 1/2"=1'-0"



1 TYPICAL LEDGER @ EXTERIOR WALL
1 1/2"=1'-0"

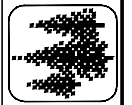


2 TYPICAL LEDGER ATTACHMENT @ WINDOWS
1 1/2"=1'-0"



3 TYPICAL LEDGER @ INTERIOR WALL
1 1/2"=1'-0"

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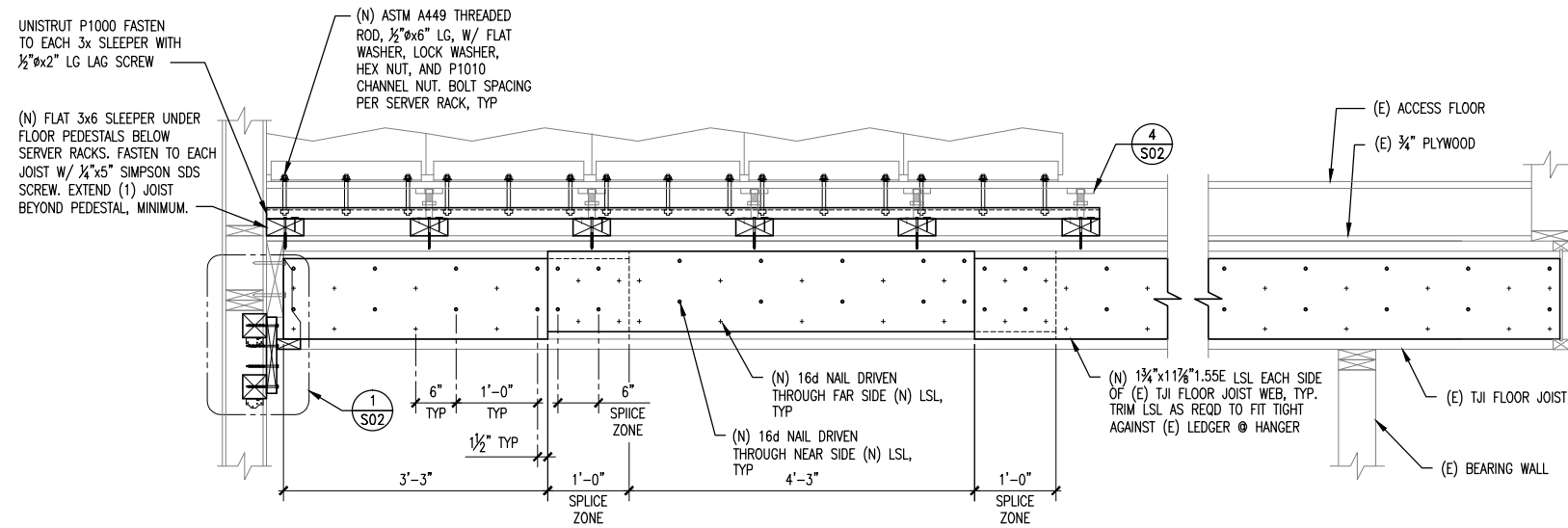


CLIENT:	UNIVERSITY OF OREGON
PROJECT:	COMPUTER & INFORMATION SCIENCE DEPT.
LOCATION:	EUGENE, OREGON
DATE:	7/10/12
SCALE:	AS SHOWN
DESIGNER:	JK
CHECKER:	JK
DATE:	7/10/12
SCALE:	AS SHOWN
DESIGNER:	JK
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DATE:	7/10/12
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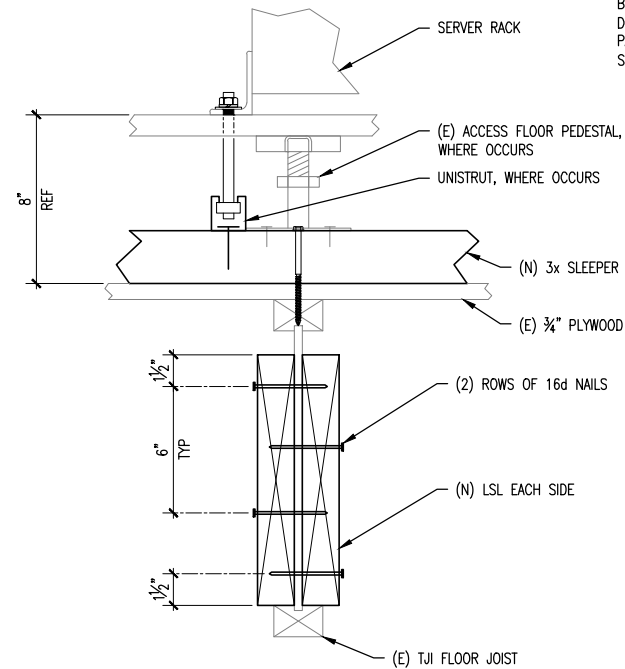
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GENERAL NOTES:

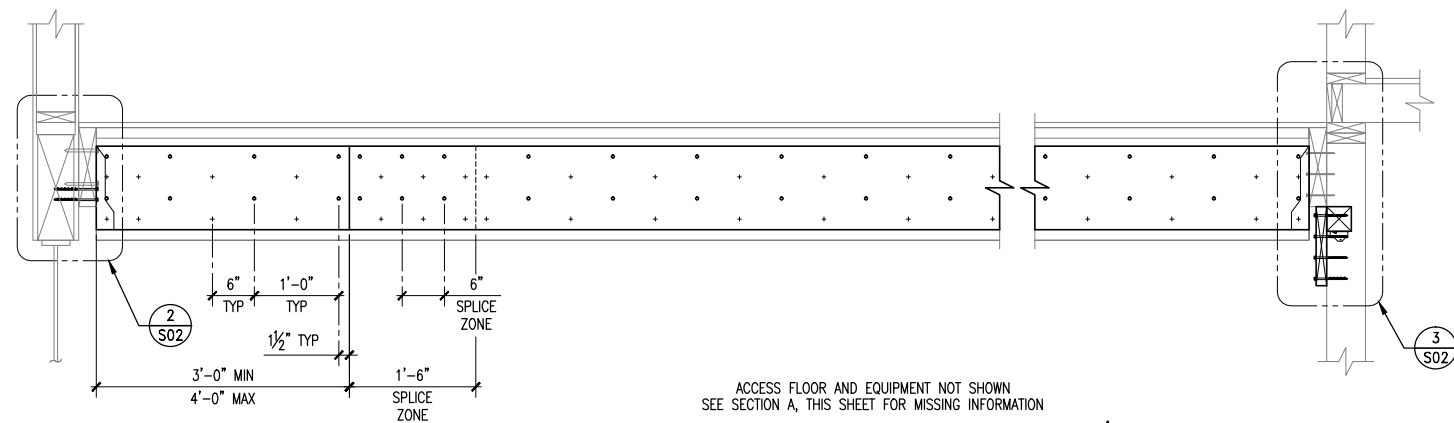
- A. SEE PROJECT NOTES ON SHEET 1000S01.
- B. (E) DENOTES EXISTING FRAMING TO REMAIN, (N) DENOTES NEW FRAMING.
- C. ACCESS FLOOR AND FLOOR PLYWOOD MAY BE REMOVED AS REQUIRED TO INSTALL NEW FLOOR JOISTS AND REINFORCE LEDGER. WHERE PLYWOOD HAS BEEN REMOVED, IT SHALL BE REPLACED AND EDGE NAILED PER THE ORIGINAL DRAWINGS (4" OC AT PANEL EDGES, 10" OC FIELD). IF PARTIAL SHEETS ARE REMOVED, ALL NEW PANEL EDGES SHALL BE EDGE NAILED TO (N) OR (E) 2x BLOCKING.



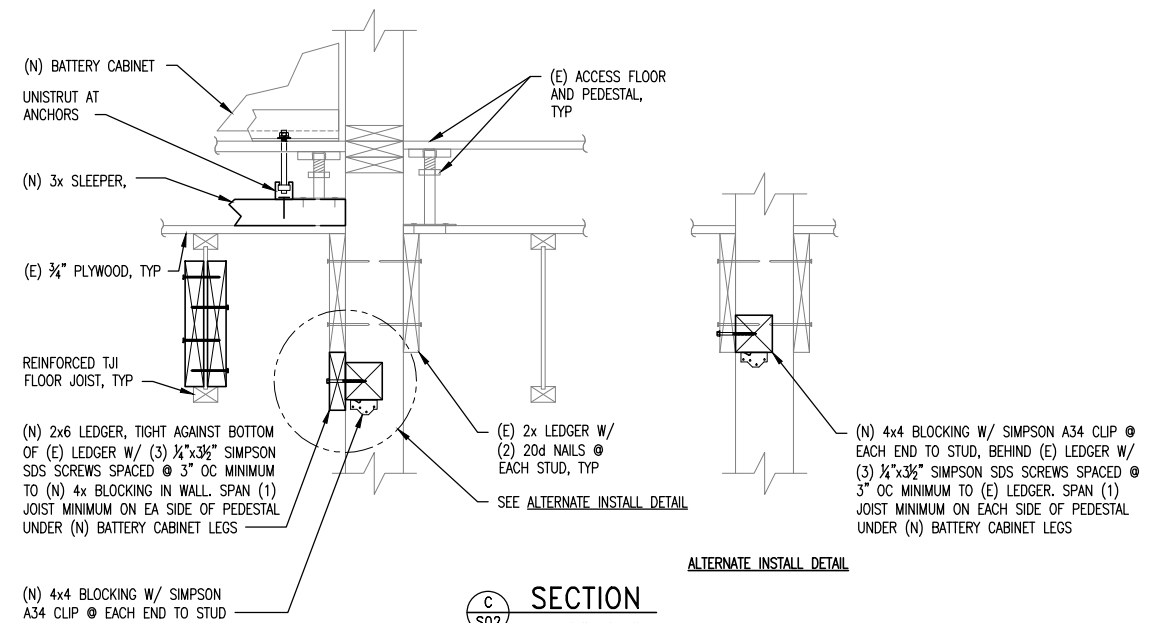
A TJI REINFORCEMENT UNDER SERVER RACKS
1"=1'-0"



SECTION TYPICAL REINFORCED FLOOR JOIST END VIEW
3"=1'-0" @ SERVER RACKS



B TJI REINFORCEMENT IN ROOM 321A / 325
1"=1'-0"



C SECTION
1 1/2"=1'-0"

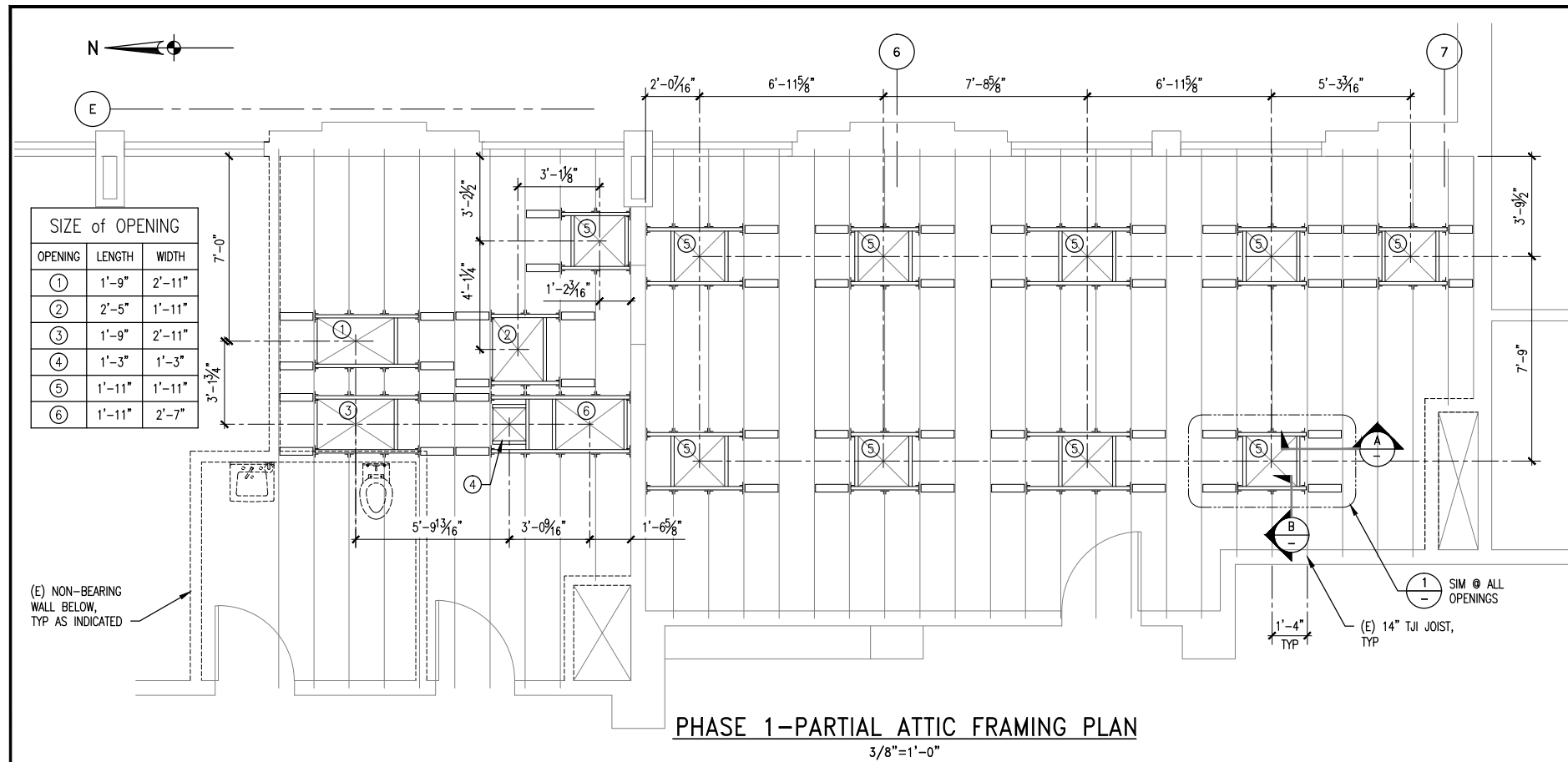
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TITLE:	DESCHUTES HALL MACHINE ROOM UPGRADES PARTIAL 3rd FLOOR FRAMING DETAILS
CLIENT:	UNIVERSITY OF OREGON COMPUTER & INFORMATION SCIENCE DEPT.
LOCATION:	EUGENE, OREGON
DESIGNER:	EVERGREEN ENGINEERING
DATE:	7/10/12
ISSUE:	0
PROJECT NO.:	1000S01
CLIENT REF. #:	2471.1
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DATE:	

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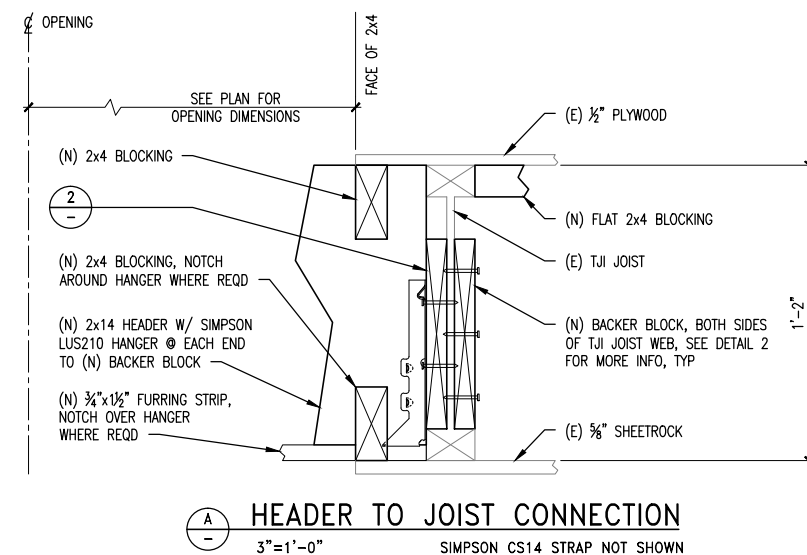
SIZE of OPENING		
OPENING	LENGTH	WIDTH
①	1'-9"	2'-11"
②	2'-5"	1'-11"
③	1'-9"	2'-11"
④	1'-3"	1'-3"
⑤	1'-11"	1'-11"
⑥	1'-11"	2'-7"

(E) NON-BEARING WALL BELOW, TYP AS INDICATED

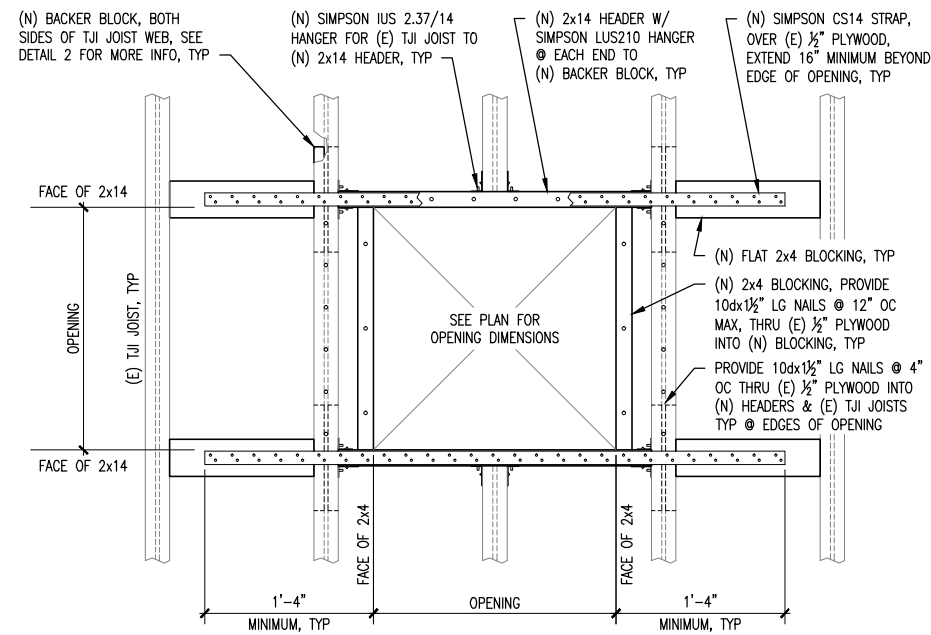
PHASE 1-PARTIAL ATTIC FRAMING PLAN
3/8"=1'-0"

ATTIC FRAMING NOTES:

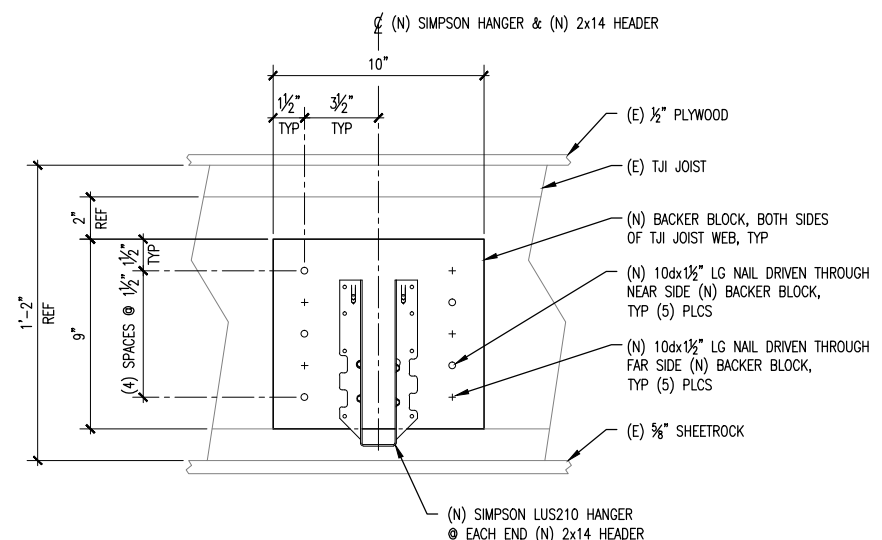
- A. SEE PROJECT NOTES ON SHEET 1000S01.
- B. SEE DETAIL 1 THIS SHEET FOR BLOCKING & STRAPPING REQUIREMENTS @ NEW OPENINGS.
- C. CONTRACTOR TO VERIFY JOIST LOCATIONS PRIOR TO CUTTING NEW OPENINGS & NOTIFY ENGINEER OF ANY CONFLICTS W/ OPENING LOCATIONS. IN NO CASE SHALL MORE THAN (2) JOISTS IN A ROW BE CUT EXCEPT AS SHOWN ON PLAN.
- D. (E) DENOTES EXISTING FRAMING TO REMAIN, (N) DENOTES NEW FRAMING MEMBERS.



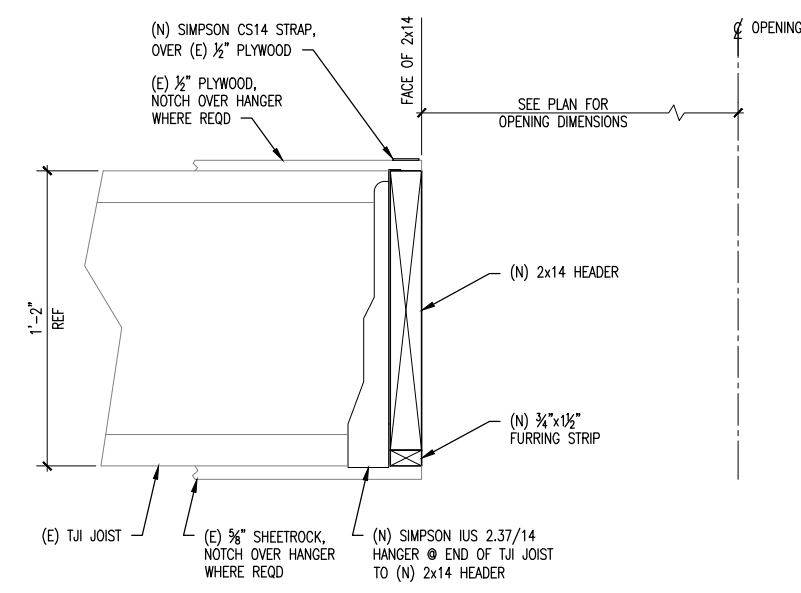
DETAIL A: HEADER TO JOIST CONNECTION
3"=1'-0" SIMPSON CS14 STRAP NOT SHOWN



DETAIL 1: BLOCKING & STRAPPING AROUND OPENING
1 1/2"=1'-0" (E) 1/2" PLYWOOD NOT SHOWN



DETAIL 2: DETAIL
3"=1'-0"



DETAIL B: JOIST TO HEADER CONNECTION
3"=1'-0"

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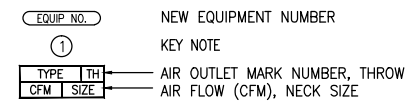
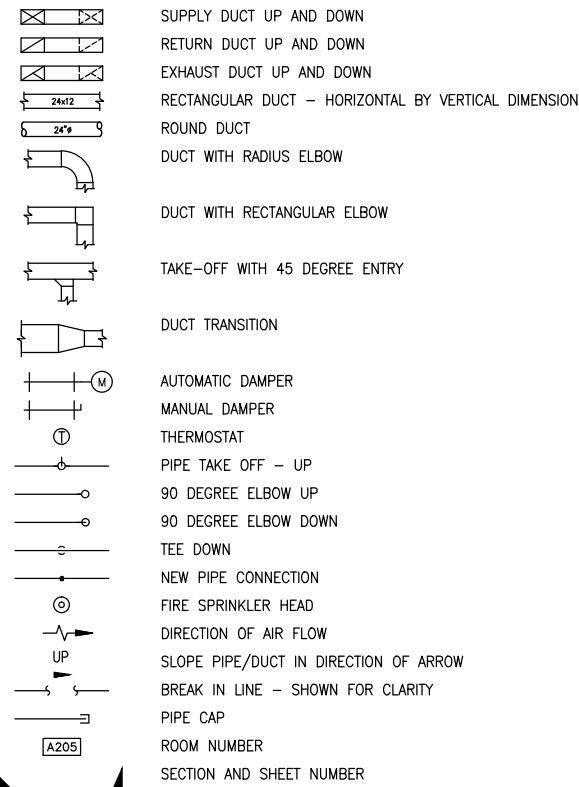
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LOCATION: EUGENE, OREGON
DATE: 5/17/13
JOB #: 2471.1
DRAWING #: 1000S04
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BY: PLS
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MECHANICAL LEGEND:



AIR DEVICE SCHEDULE

MARK NO.	MANUFACTURER MODEL NO. *	FACE SIZE	REMARKS
SDC-1	TITUS MDC CEILING SUPPLY DIFFUSER	25.5x25.5	LOUVERED FACE, BORDER TYPE 1 FOR SURFACE MOUNTING, 4 WAY PATTERN, AND NO. 26 OFF-WHITE FINISH. NO OBD.
RGC-1	TITUS PAR CEILING RETURN	24x24	PERFORATED FACE, BORDER TYPE 1 FOR SURFACE MOUNTING, & NO. 26 OFF-WHITE FINISH. NO OBD.

* TITUS, PRICE, KRUEGER, OR EQUAL

MECHANICAL ABBREVIATIONS:

ACU	AIR CONDITIONING UNIT
AD	ACCESS DOOR
CFM	CUBIC FEET PER MINUTE
DN	DOWN
EF	EXHAUST FAN
EXH	EXHAUST
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
FS	FIRE SPRINKLER PIPING
SA	SUPPLY AIR
RA	RETURN AIR
EA	EXHAUST AIR
OSA	OUTSIDE AIR
SDC	SUPPLY DIFFUSER CEILING
RGC	RETURN GRILLE CEILING
CW	DOMESTIC COLD WATER
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
HHWS	HEATING HOT WATER SUPPLY
HHWR	HEATING HOT WATER RETURN
(E)	EXISTING
(RL)	RELOCATED
(N)	NEW

SEQUENCE OF OPERATION:

SYSTEM DESCRIPTION:
 THE SYSTEM CONSISTS OF ONE PRIMARY AND ONE REDUNDANT UPFLOW AIR HANDLING UNIT. EACH UNIT HAS A VARIABLE SPEED EC FAN, CHILLED WATER COIL, MODULATING 3-WAY CHILLED WATER CONTROL VALVE, MODULATING OUTSIDE AND RETURN AIR DAMPERS, AND INFRARED HUMIDIFIER. THE UNITS WILL BE CONTROLLED BY ROOM AND DUCT TEMPERATURE SENSORS TO MAINTAIN A ROOM SET POINT OF 72°F AND 45% RELATIVE HUMIDITY. THE SUPPLY AIR SETPOINT SHALL BE RESET BASED ON OUTDOOR AIR CONDITIONS.
 THE INTENT IS TO USE THE INTERNAL AIR HANDLER CONTROLS TO PERFORM THESE CONTROL FUNCTIONS AND TO CONNECT TO A NEW CONTROL PANEL IN ROOM 325 FOR MONITORING AND ALARM FUNCTIONS AS WELL AS CONNECTION TO THE CAMPUS BAS NETWORK. ALL CONTROL WIRING, CONDUIT, DEVICES, AND PROGRAMMING TO BE PROVIDED BY THE CONTROLS CONTRACTOR.

OCCUPIED & NON-OCCUPIED MODE:
 1. THE AHU FAN WILL RUN CONTINUOUSLY TO MAINTAIN THE ADJUSTABLE ROOM SETPOINT (INITIALLY SET AT 72°F) WITH THE OUTSIDE AIR DAMPER SET TO ITS MINIMUM POSITION.

ECONOMIZER MODE:
 1. IF THE OUTSIDE CONDITIONS ARE SUITABLE FOR ECONOMIZER OPERATION AS DETERMINED BY THE OUTSIDE AIR SENSOR (BETWEEN 42° AND 65°F), THEN ECONOMIZER OPERATION IS ALLOWED.
 2. UPON A CALL FOR COOLING, ECONOMIZER OPERATION IS INITIATED. OUTSIDE AND RETURN AIR DAMPERS MODULATE FROM A MINIMUM SETTING OF 60 CFM TO A MAXIMUM OF 2000 CFM TO MAINTAIN A SUITABLE DISCHARGE TEMPERATURE.
 3. IF THE ECONOMIZER OPERATION ALONE IS NOT SUFFICIENT TO SATISFY THE COOLING REQUIREMENT, THE CHILLED WATER VALVE WILL MODULATE OPEN TO MAINTAIN THE APPROPRIATE LEAVING AIR TEMPERATURE. THE OUTSIDE AIR AND RETURN AIR DAMPERS WILL THEN MODULATE BACK DOWN TO MINIMUM POSITION.

EXHAUST/RELIEF FAN:
 1. EF-8 IS A VARIABLE SPEED FAN CONTROLLED BY A SPACE STATIC PRESSURE SENSOR LOCATED IN ROOM 321 TO MAINTAIN A SLIGHTLY POSITIVE PRESSURE OF .1" WC.

EXHAUST FAN SCHEDULE

DESIGNATION	EF-8
CFM	2,000
ESP (in wc)	0.25
HP	¾
VOLTS / PHASE	115/1
FAN RPM	823
TIP SPEED (FPM) / SONES	3583/9.3
DRIVE	DIRECT DRIVE
MOUNTING	WALL
MANUFACTURER	GREENHECK
MODEL NUMBER	CW-161-VG
CONTROL	PRESSURE SENSOR
LOCATION	ROOM 321
OPERATING WEIGHT (LBS)	96
DAMPER SIZE	15x15
WALL / ROOF OPENING SIZE	15.5x15.5
ACCESSORIES	1

- 1. MOUNTED AND WIRED NEMA 1 TOGGLE SWITCH,
- BACKDRAFT DAMPER
- VARI-GREEN EC MOTOR 0-10 VDC INPUT
- VARI-GREEN CONSTANT PRESSURE-INDOOR
- VARI-GREEN TRANSFORMER 115/230 VAC TO 24 VDC, MOUNTED AND WIRED

GENERAL NOTES:

- CONTRACTOR IS TO COORDINATE THE LOCATION OF ALL EQUIPMENT, GRILLES AND DIFFUSERS WITH RESPECT TO STRUCTURAL COMPONENTS, LIGHTING, AND OTHER BUILDING FEATURES. PAINT DUCTWORK VISIBLE THROUGH GRILLES AND DIFFUSERS FLAT BLACK.
- DUCTS ARE TO BE CONSTRUCTED ACCORDING TO SMACNA GUIDELINES USING MINIMUM 26 GA GALVANIZED STEEL FOR RECTANGULAR AND 28 GA GALVANIZED STEEL FOR ROUND DUCTS AND SHALL BE SUPPORTED BY APPROVED HANGERS AT INTERVALS NOT EXCEEDING 10 FEET.
- ALL NEW PIPING SHALL BE INSULATED PER OEESC TABLE 503.2.8 USING GLASS FIBER INSULATION, COVER WITH ZESTON 2000 PVC PRE-MOLDED PIPING AND FITTING COVERS (OR EQUIVALENT). LABEL PER UNIVERSITY SPECIFICATIONS.
- THE MECHANICAL CONTRACTOR SHALL PROVIDE EQUIPMENT OPERATION AND MAINTENANCE MANUALS TO THE OWNER PRIOR TO PROJECT CLOSE-OUT.
- PATCH WALL PENETRATIONS TO A LIKE NEW APPEARANCE.
- INSTALLATION OF ALL EQUIPMENT AND SYSTEMS TO ALLOW FOR SERVICEABILITY. INSTALLATIONS THAT DO NOT ALLOW FOR ADEQUATE MAINTAINABILITY WILL NOT BE ACCEPTED.

COMPUTER ROOM AC UNIT SCHEDULE

DESIGNATION	ACU-3	ACU-4
ELECTRICAL		
NAMEPLATE AMPS (MCA)	64.2	64.2
MAX FUSE SIZE (AMPS)	90	90
VOLTS/PHASE	208/3	208/3
EER/SEER (AT ARI)	SEE NOTE 2	SEE NOTE 2
BLOWER		
CFM	5500	5500
TOTAL S P (IN WC)	0.3	0.3
MIN OSA (ASHRAE 62.1)	60	60
HP	3.6	3.6
DRIVE	DIRECT	DIRECT
COOLING		
SENSIBLE (MBH)	127	127
TOTAL (MBH)	127	127
EADB/EAWB (°F)	80/62.8	80/62.8
LDB (°F)	58.2	58.2
OUTSIDE DESIGN DB (°F)	92	92
CHW COIL		
CHW GPM	18.0	18.0
PRESSURE DROP (FT)	5.6	5.6
EWT (SUMMER/WINTER)	48	48
ENTERING FLUID RISE (ΔT)	14.95	14.95
FILTERS		
QUANTITY/SIZE	(4) 18"x24"x4"	(4) 18"x24"x4"
TYPE	MERV 8	MERV 8
HUMIDIFIER		
CAPACITY (LB/HR)	11	11
KW	4.8	4.8
MANUFACTURER	LIEBERT	LIEBERT
TYPE	COOLING ONLY	COOLING ONLY
MODEL NUMBER	CW041UCSA3S086	CW041UCSA3S086
LOCATION	ROOM 321A	ROOM 321A
OPERATING WEIGHT (LBS)	895	895

NOTES: 1. UNIT TO BE SHIPPED IN TWO PIECES TO FACILITATE MOVING INTO BUILDING.
 2. EER IS NOT AVAILABLE DUE TO THE VARYING EFFICIENCY OF THE CHILLER PLANT SUPPLYING CHILLED WATER.

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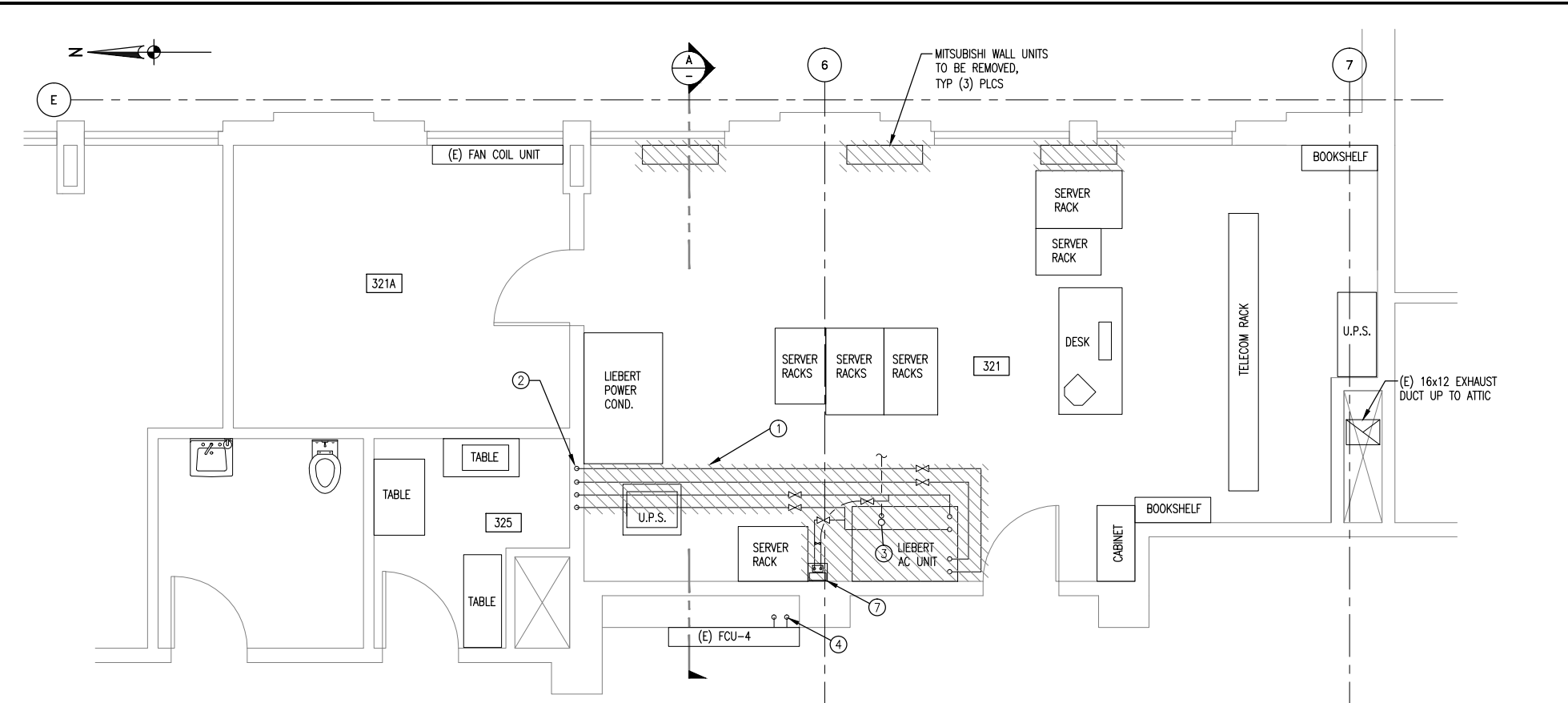
CLIENT: UNIVERSITY OF OREGON
 COMPUTER & INFORMATION SCIENCE DEPT.
 LOCATION: EUGENE, OREGON
 DESIGNER: EVERGREEN ENGINEERING
 DATE: 5/17/13
 DRAWING NO.: 2471.1
 PROJECT: DESCHUTES HALL MACHINE ROOM UPGRADES AND SCHEDULES

TITLE: DESCHUTES HALL MACHINE ROOM UPGRADES AND SCHEDULES
 LEGEND, GENERAL NOTES AND SCHEDULES
 DRAWING NO.: 1000M01
 JOB NO.: 2471.1
 CLIENT REF #:
 REV: 0

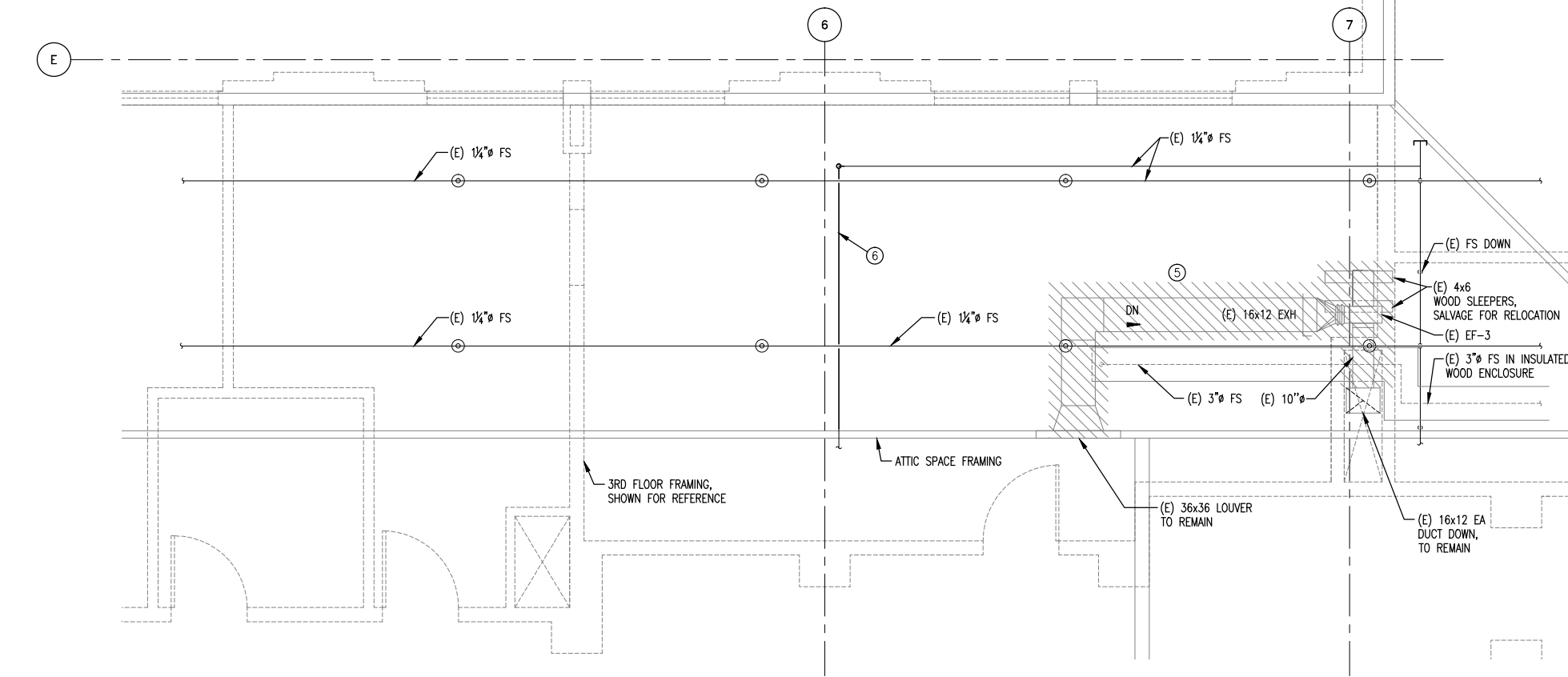
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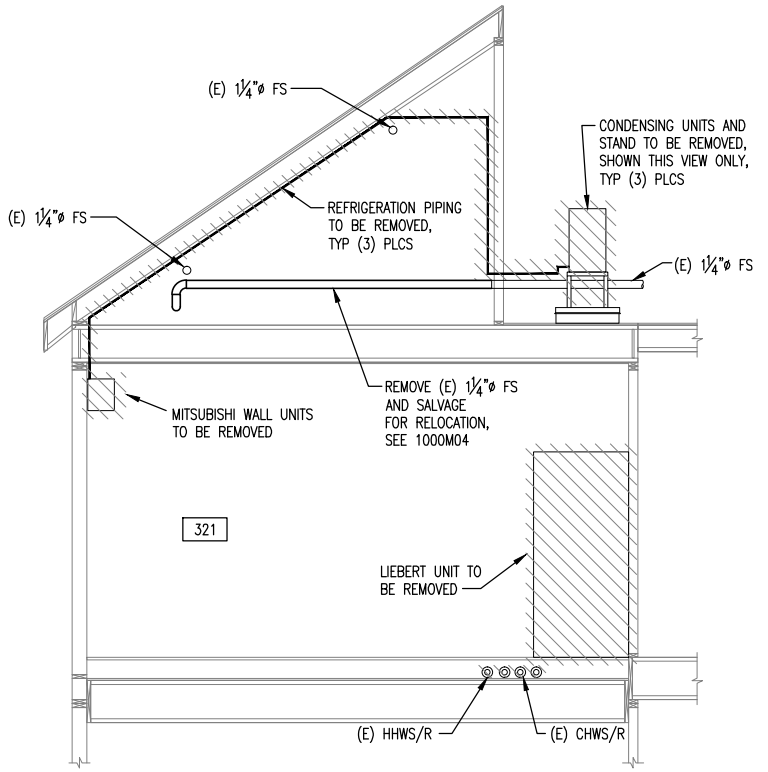


PHASE 1-PARTIAL 3RD FLOOR DEMOLITION PLAN
3/8"=1'-0"



PHASE 1-PARTIAL ATTIC DEMOLITION PLAN
3/8"=1'-0"

- KEYED NOTES:**
- ① UNDERFLOOR (E) 1/4"Ø HHWS/R & (E) 1/2"Ø CHWS/R PIPING TO BE REMOVED. CAP PIPING AT RISERS.
 - ② (E) 1/4"Ø HHWS/R & (E) 1/2"Ø CHWS/R FROM 2ND FLOOR.
 - ③ (E) FD WITH TRAP PRIMER TO REMAIN.
 - ④ (E) 3/4"Ø HHWS/R DOWN TO 2ND FLOOR TO REMAIN.
 - ⑤ REMOVE (E) EF-3 AND ASSOCIATED DUCTWORK. SALVAGE FOR RELOCATION. EXISTING ATTIC 36x36 LOUVER TO REMAIN.
 - ⑥ REMOVE 1/4"Ø FS. SALVAGE FOR RELOCATION.
 - ⑦ (E) CHW RECIRCULATING PUMP AND PIPING TO BE REMOVED.



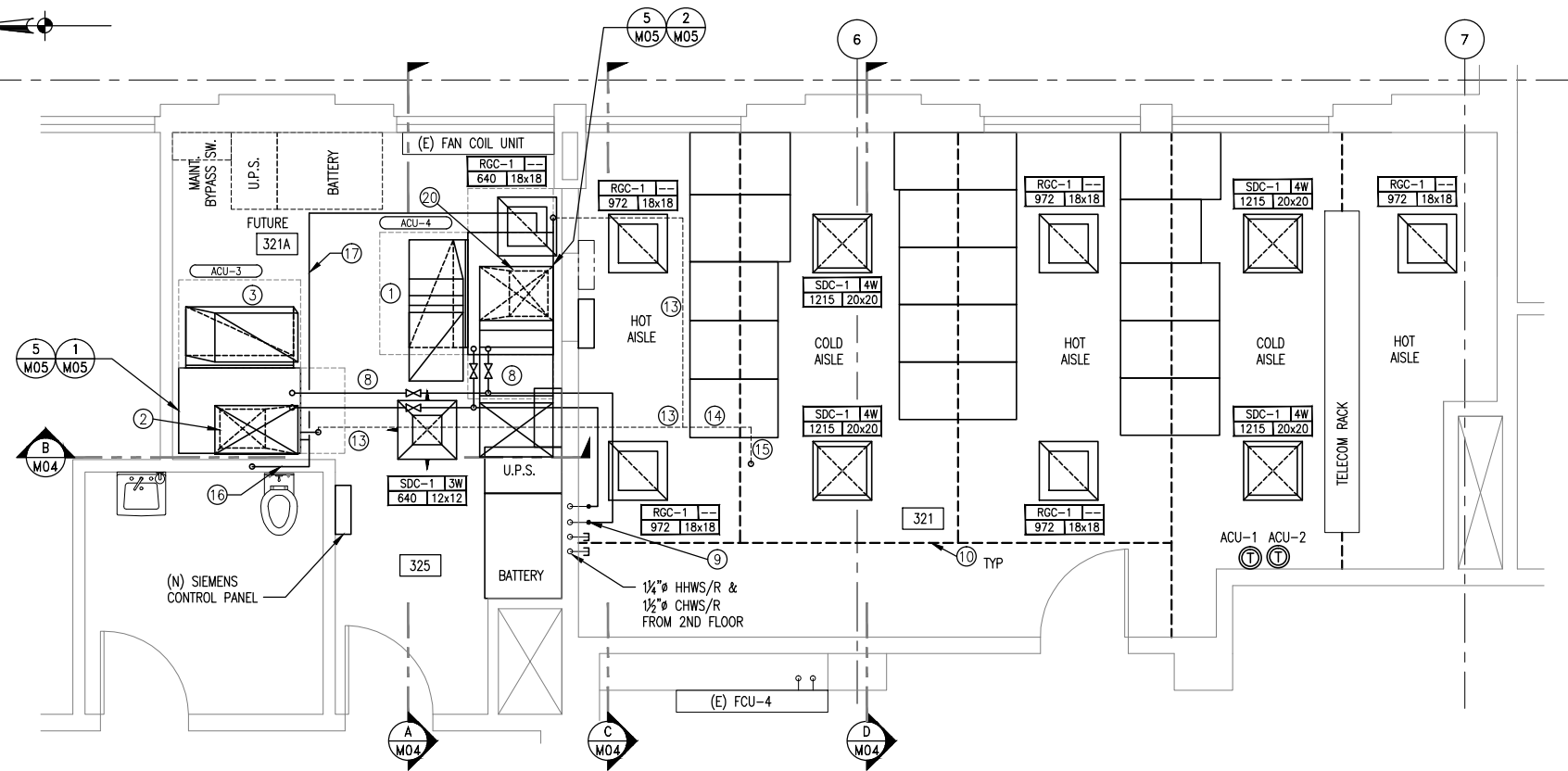
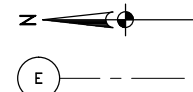
SECTION A
3/8"=1'-0"

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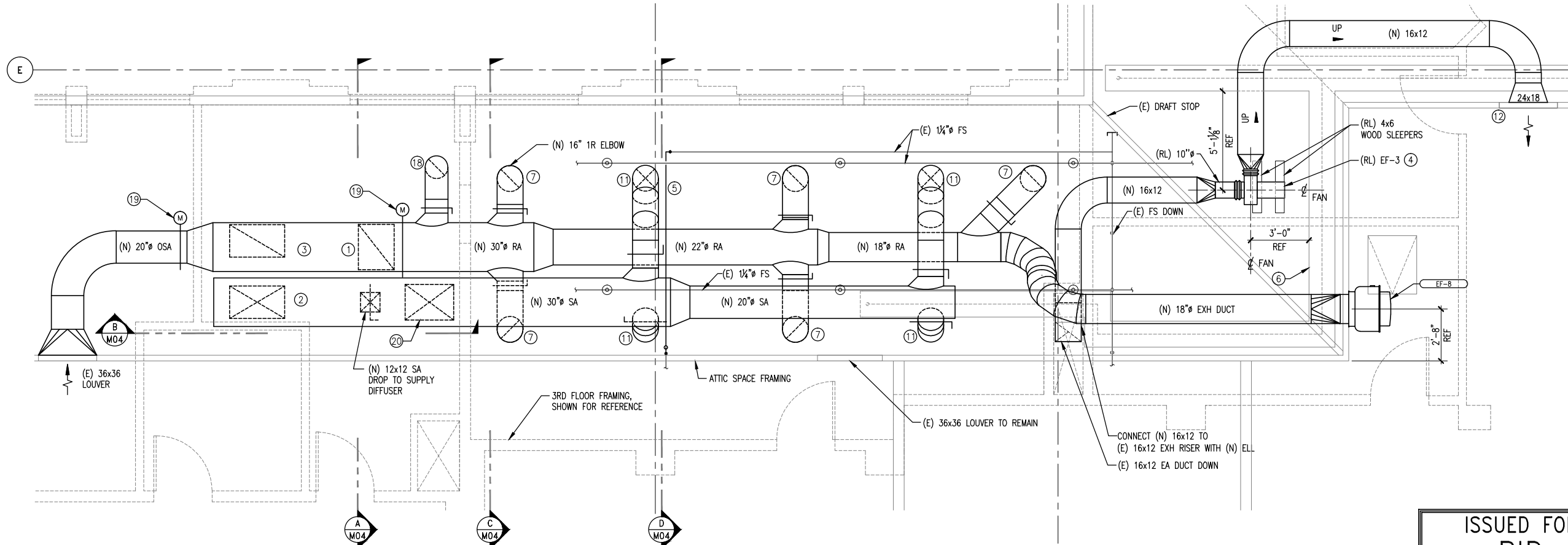
CLIENT: UNIVERSITY OF OREGON COMPUTER & INFORMATION SCIENCE DEPT. LOCATION: EUGENE, OREGON	DRAWING #: 1000M02 JOB #: 2471.1 CLIENT REF #:	DESIGNER: ISK DATE: 5/17/13 SCALE: 3/8"=1'-0" THIS DRAWING, INCLUDING ENGINEERING, DESIGN AND EXISTING SPECIFICATIONS, IS HEREBY SUBMITTED FOR THE PROJECT SHOWN IN THE TITLE BLOCK. IT MAY NOT BE REPRODUCED OR USED FOR OTHER PROJECTS, AND CHANGE USE OF THIS DRAWING WITHOUT WRITTEN CONSENT OF EVERGREEN ENGINEERING IS PROHIBITED.
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PHASE 1-PARTIAL 3RD FLOOR MECHANICAL PLAN
3/8"=1'-0"

KEYED NOTES:

- 1 22x28 RA DOWN. TRANSITION TO MATCH RA INLET SIZE ON ACU. SEE ALSO 1000M04 FOR DUCT ROUTING.
- 2 34x20 SA DOWN. TRANSITION TO SUPPLY AIR OUTLET SIZE ON ACU
- 3 34x20 RA DUCT DOWN TO ACU. TRANSITION TO UNIT CONNECTION SIZE.
- 4 RELOCATE EF-3 TO NEW LOCATION AS SHOWN. THIS TOILET EXHAUST SYSTEM TO BE INCLUDED IN THE AIR BALANCE SCOPE. TOTAL CFM = 1360 @ 0.5"SP; TOILET ROOMS 121, 123, 221 & 223 = 315 CFM EACH; ALCOVE 116, JANITOR 225 = 50 CFM EACH.
- 5 REROUTE 1 1/4" FIRE SPRINKLER IN ATTIC SPACE TO ALLOW CLEARANCE FOR NEW DUCTWORK.
- 6 EXISTING WOODEN FIRE SPRINKLER PIPING CHASE IN ATTIC, 16" WIDE x 12 1/2" HIGH.
- 7 16" DUCT DROP TO RETURN GRILLE BELOW. TRANSITION TO GRILLE NECK SIZE IN JOIST SPACE. REROUTE FIRE SPRINKLER, ELECTRICAL CONDUIT, ETC. AS NECESSARY.
- 8 NEW 1 1/2" CHWS/R UNDER RAISED FLOOR.
- 9 1 1/2" CHWS/R TIE-IN POINT.
- 10 STRIP CURTAINS, SEE 1000A02.
- 11 16" SUPPLY DUCT DROP TO GRILLE BELOW. TRANSITION TO GRILLE NECK SIZE IN JOIST SPACE. REROUTE FIRE SPRINKLER, ELECTRICAL CONDUIT, ETC. AS NECESSARY.
- 12 TRANSITION TO 24x18. CONNECT TO EXISTING LOUVER.
- 13 3/4" CONDENSATE DRAIN ROUTED UNDER RAISED FLOOR.
- 14 1" CONDENSATE DRAIN.
- 15 ROUTE 1" CONDENSATE DRAIN DOWN TO SECOND FLOOR JANITOR'S ROOM 225. ROUTE CONDENSATE DRAIN DOWN WALL AND DISCHARGE INTO EXISTING JANITOR'S SINK. CONTRACTOR TO VERIFY ACTUAL LOCATION AND ROUTING IN FIELD.
- 16 1/2" COLD WATER FOR HUMIDIFIER. TIE-IN TO EXISTING CW IN WALL.
- 17 1/2" COLD WATER ROUTED UNDER RAISED FLOOR TO ACU-2 HUMIDIFIER.
- 18 14" DROP TO RETURN GRILLE BELOW. TRANSITION TO GRILLE NECK SIZE IN JOIST SPACE. REROUTE FIRE SPRINKLER, ELECTRICAL CONDUIT, ETC. AS NECESSARY.
- 19 MOTORIZED CONTROL DAMPER FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR. ACTUATOR FURNISHED, INSTALLED, AND WIRED BY CONTROLS CONTRACTOR.
- 20 30x22 SA DOWN. PROVIDE 90° OFFSET AND TRANSITION TO ACU CONNECTION SIZE.



PHASE 1-PARTIAL ATTIC MECHANICAL PLAN
3/8"=1'-0"

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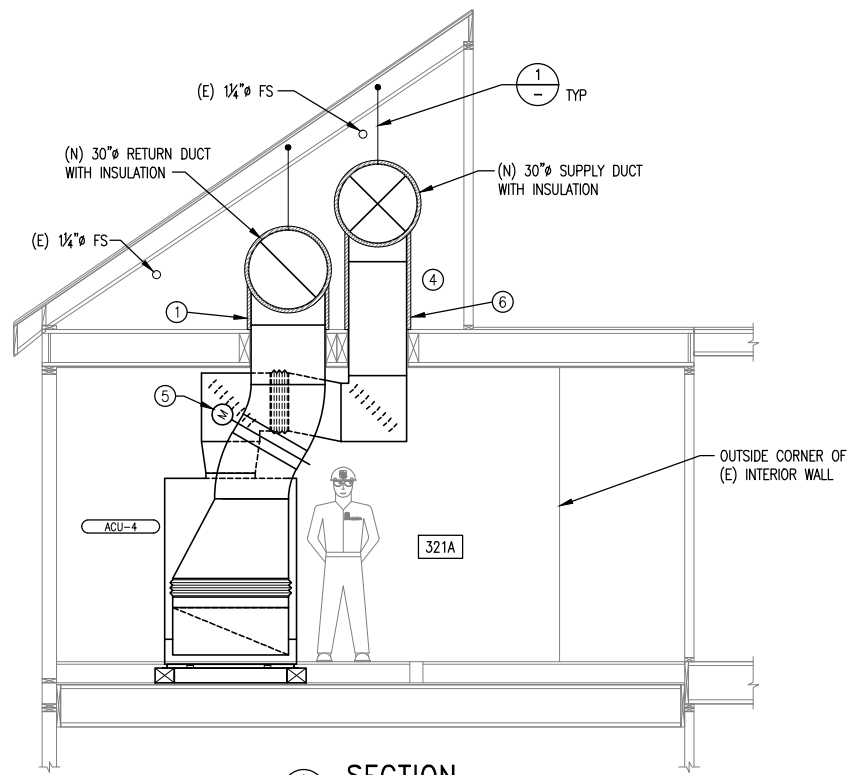
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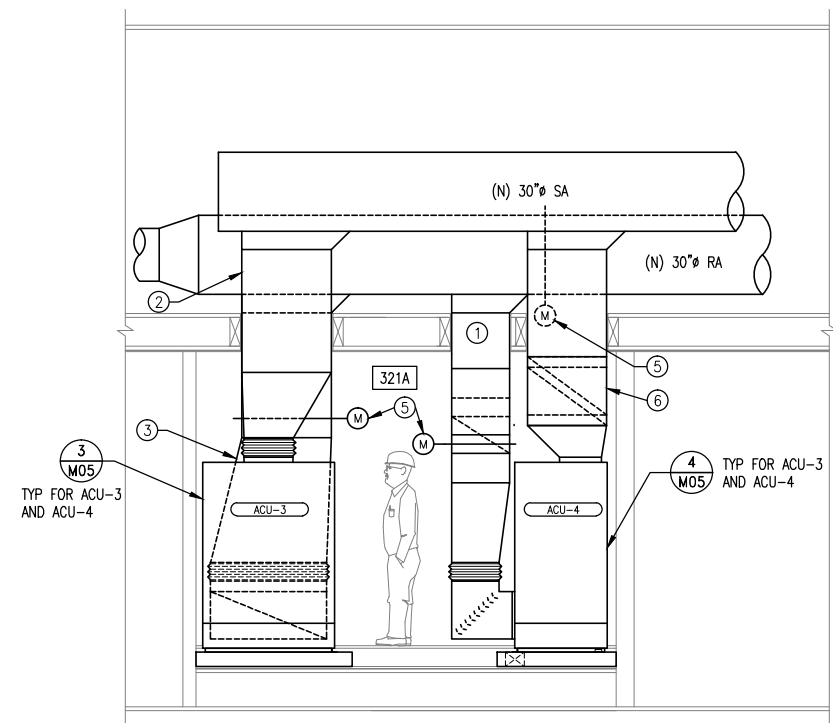
CLIENT:	UNIVERSITY OF OREGON
LOCATION:	COMPUTER & INFORMATION SCIENCE DEPT. EUGENE, OREGON
DESIGNER:	EVERGREEN ENGINEERING
DATE:	5/17/13
SCALE:	AS SHOWN
PROJECT NO.:	1000M03
JOB NO.:	2471.1
CLIENT REF. #:	
DRIVING #:	
REV:	0

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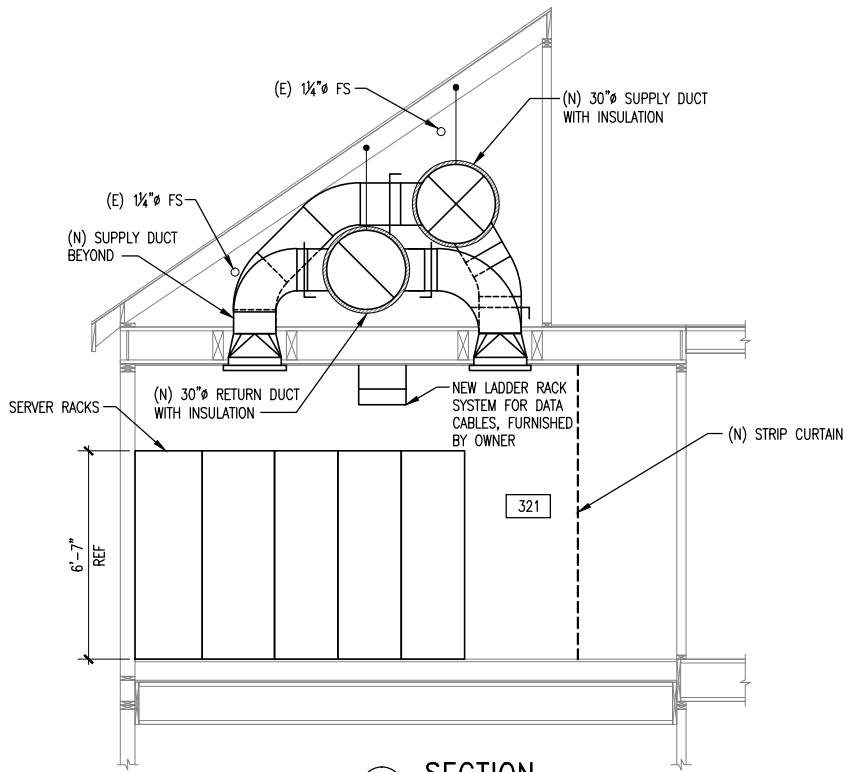
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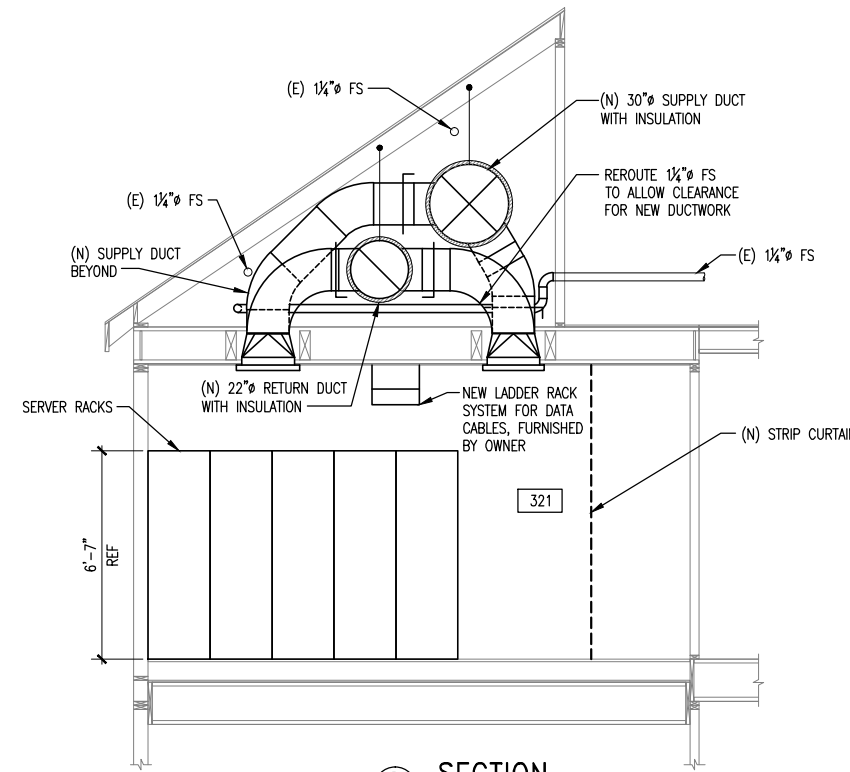
A SECTION
 3/8"=1'-0" NOTE: U.P.S. & BATTERY CABINET NOT SHOWN



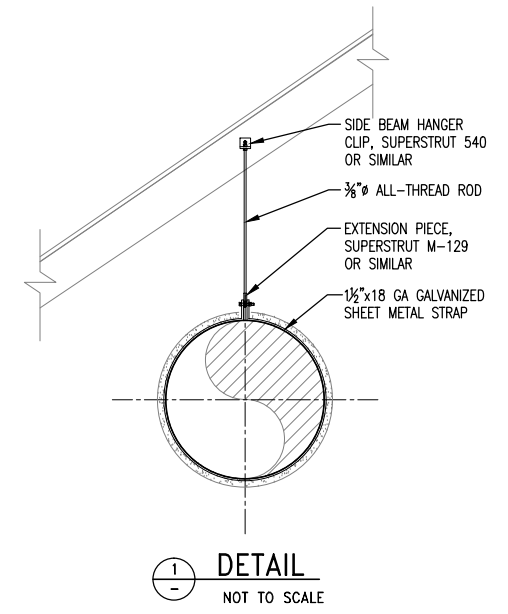
B SECTION
 3/8"=1'-0"



C SECTION
 3/8"=1'-0"



D SECTION
 3/8"=1'-0"



1 DETAIL
 NOT TO SCALE

- KEYED NOTES:**
- 1 22x28 RA DOWN. TRANSITION TO MATCH RA INLET SIZE ON ACU.
 - 2 34x20 SA DOWN. TRANSITION TO SUPPLY AIR OUTLET SIZE ON ACU.
 - 3 34x20 RA DOWN. TRANSITION TO RETURN AIR OUTLET SIZE ON ACU. CONNECT TO 30" RA MAIN IN ATTIC ABOVE.
 - 4 SUPPLY AIR DIFFUSER NOT SHOWN FOR CLARITY. SEE 1000M03.
 - 5 MOTORIZED CONTROL DAMPER IN RETURN DUCT. DAMPER FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR. ACTUATOR FURNISHED, INSTALLED, AND WIRED BY CONTROLS CONTRACTOR.
 - 6 30x22 SA DOWN. OFFSET AND TRANSITION TO SUPPLY AIR OUTLET SIZE ON ACU.

REV	BY	DATE	DESCRIPTION
0	PLS	1/4/13	ISSUED FOR BID

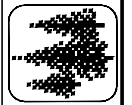
CLIENT:	UNIVERSITY OF OREGON
PROJECT:	COMPUTER & INFORMATION SCIENCE DEPT.
LOCATION:	EUGENE, OREGON
DESIGN:	ENGINEER: RSK
DATE:	DATE: 5/17/13
SCALE:	SCALE: AS SHOWN

TITLE:	DESCHUTES HALL
	MACHINE ROOM UPGRADES
	SECTIONS
DRIVING #:	1000M04
JOB #:	2471.1
CLIENT REF #:	

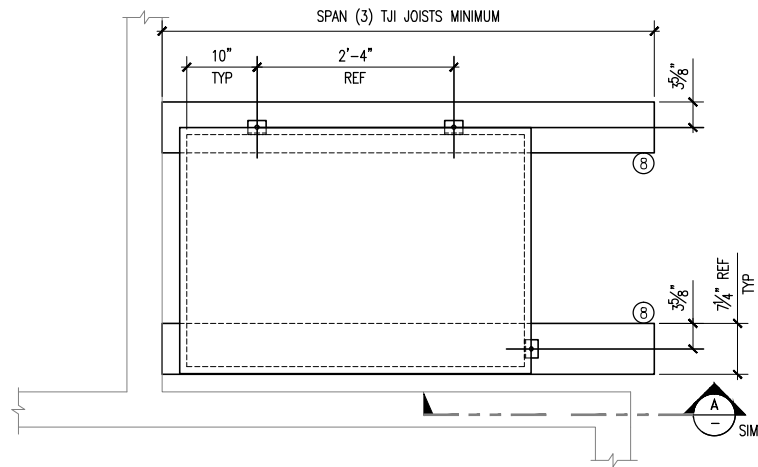
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THIRD ANGLE PROJECTION

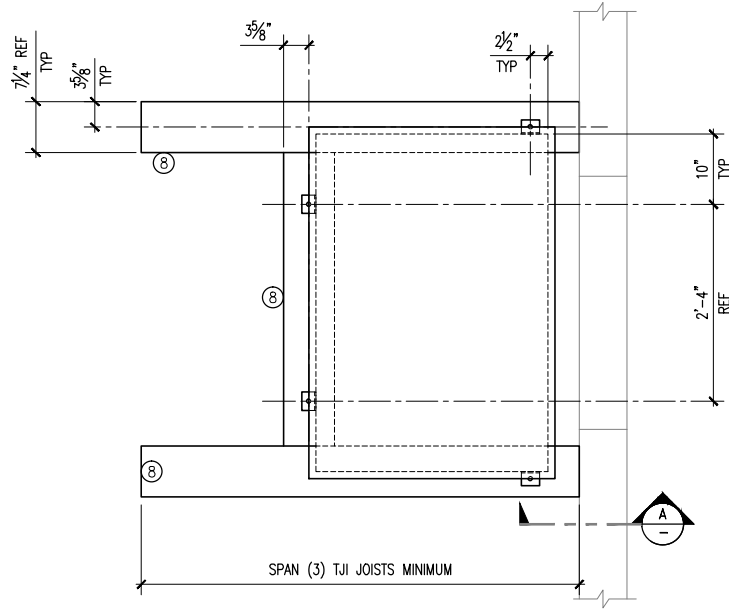
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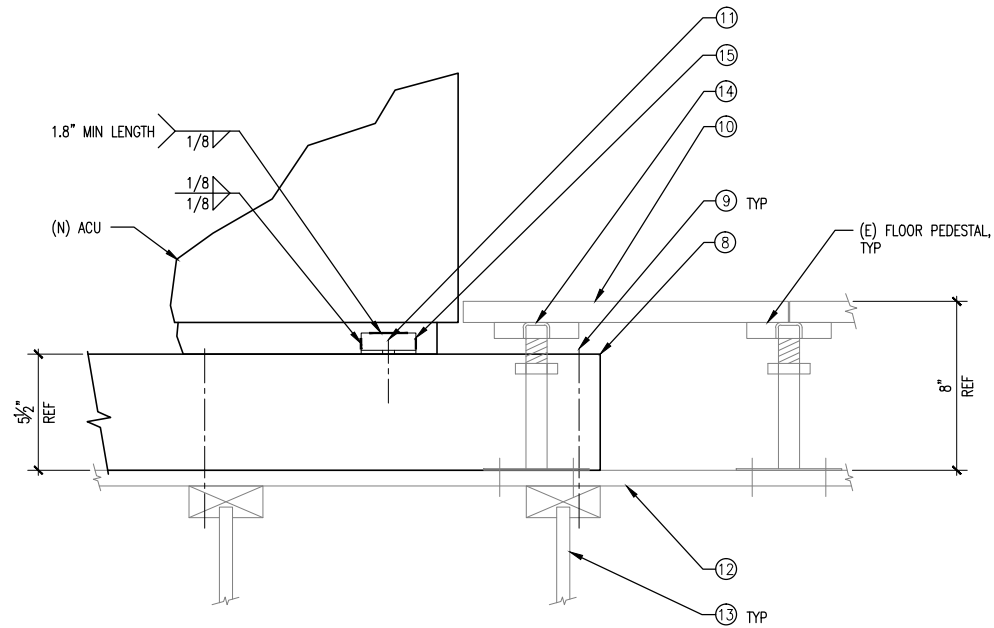
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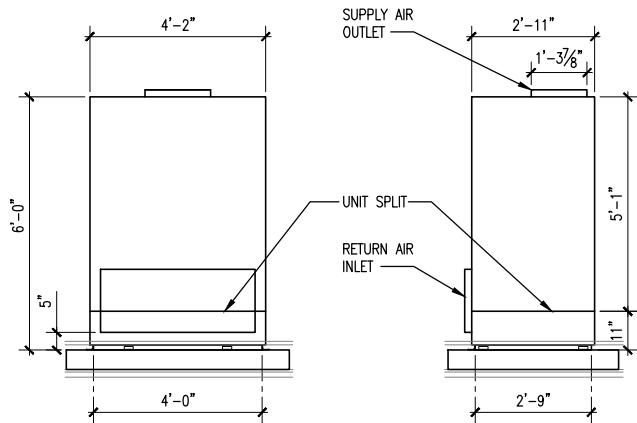
1 ACU-3 MOUNTING DETAIL
1"=1'-0"



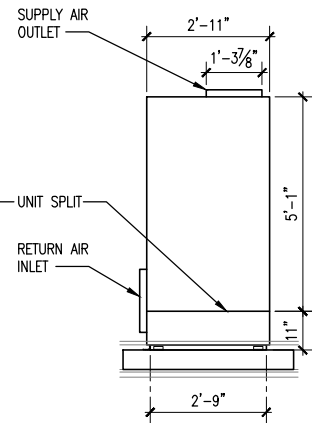
2 ACU-4 MOUNTING DETAIL
1"=1'-0"



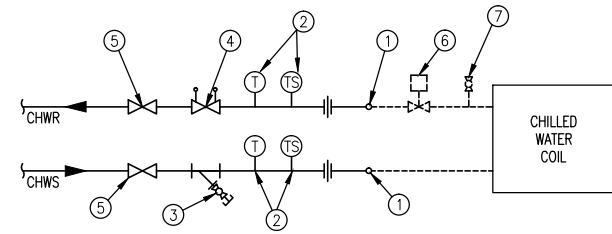
A SECTION
3"=1'-0"



3 DETAIL
1/2"=1'-0"



4 DETAIL
1/2"=1'-0"



5 ACU PIPING SCHEMATIC
NO SCALE

KEYED NOTES:

- 1 UNIT CONNECTION
- 2 TEMPERATURE SENSOR IN THERMOWELL AND THERMOMETER
- 3 WYE STRAINER
- 4 BALANCING VALVE
- 5 GATE VALVE
- 6 2-WAY CONTROL VALVE FURNISHED WITH UNIT
- 7 AIR VENT FURNISHED WITH UNIT
- 8 (N) 6x8 BLOCKING
- 9 FASTEN BLOCKING TO TJI JOISTS WITH (1) 1/4"x8" SIMPSON SDS SCREW AT EACH JOIST.
- 10 (E) RAISED FLOOR
- 11 1/2"x4" LAG SCREW, TYP OF 1 PER ANCHOR BRACKET.
- 12 (E) 3/4" PLYWOOD
- 13 (E) 16" TJI JOIST @ 16" OC
- 14 RELOCATE (E) FLOOR PEDESTALS AS NEEDED AROUND ACU-3 AND ACU-4.
- 15 SEISMIC ANCHOR BRACKETS, PROVIDED BY UNIT MANUFACTURER.

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CLIENT: UNIVERSITY OF OREGON PROJECT: COMPUTER & INFORMATION SCIENCE DEPT. LOCATION: EUGENE, OREGON	DRAWN: ISK CHECKED: ISK DATE: 5/17/13 PLS: ISK REV: 0
TITLE: DESCHUTES HALL MACHINE ROOM UPGRADES ACU MOUNTING DETAILS & PIPING SCHEMATIC	JOB #: 2471.1 CLIENT REF #: 1000M05
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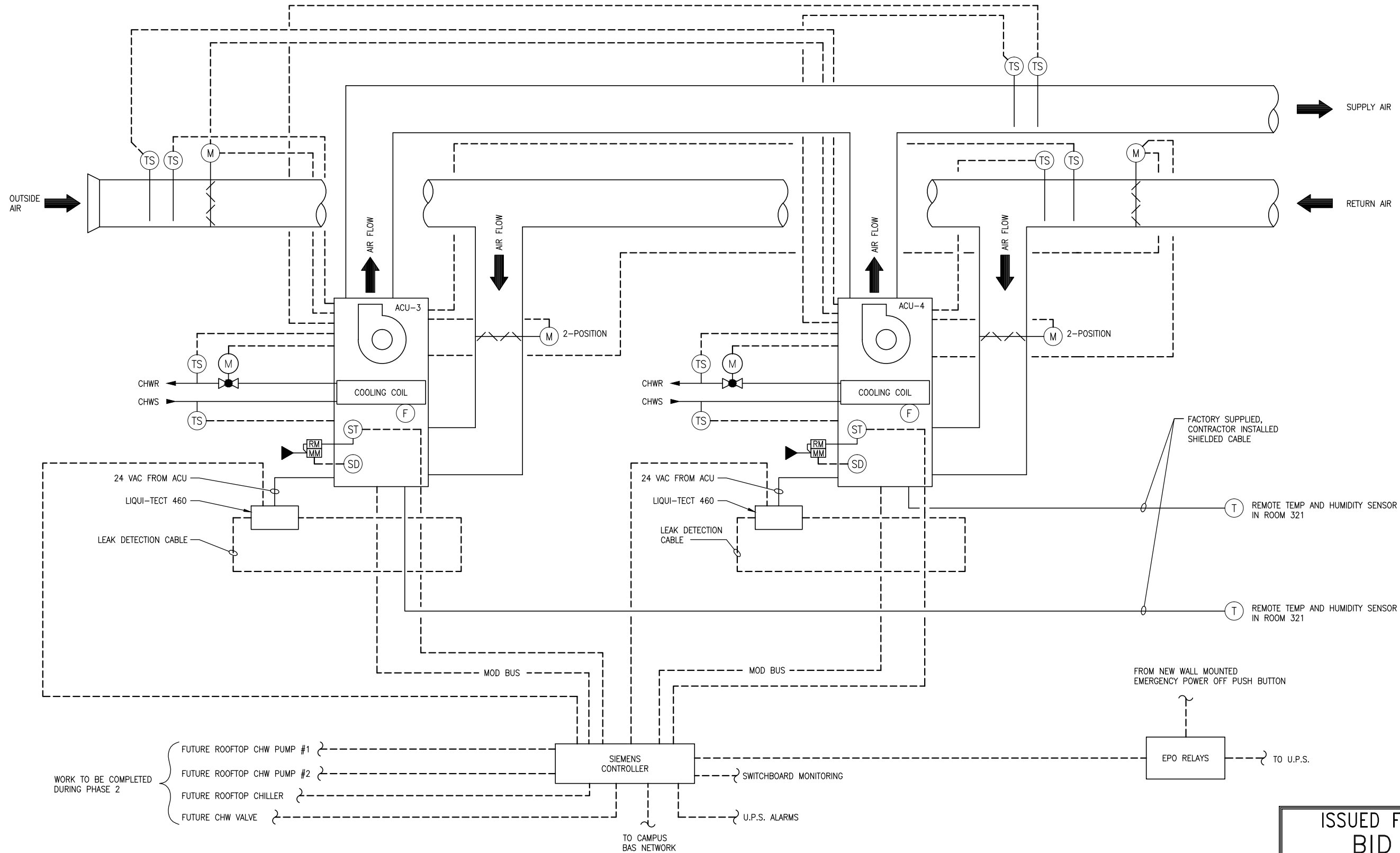
GENERAL NOTES:

A. ALL WORK TO BE COMPLETED DURING PHASE 1 UNLESS NOTED OTHERWISE.

SYMBOL LEGEND

- (SD) SMOKE DETECTOR, FURNISHED WITH ACU
- (TS) TEMPERATURE SENSOR: AIR SENSORS PROVIDED WITH ACU FOR FIELD INSTALLATION BY MECH. CONTRACTOR. WATER SENSORS PROVIDED AND WIRED BY CONTROLS CONTRACTOR, INSTALLED BY MECH. CONTRACTOR.
- (ST) ACU START TERMINALS
- (T) WALL MOUNTED TEMPERATURE SENSOR, FURNISHED WITH ACU FOR FIELD INSTALLATION BY CONTROLS CONTRACTOR.
- (F) COIL FREEZE PROTECTION, FURNISHED AND INSTALLED BY CONTROLS CONTRACTOR.

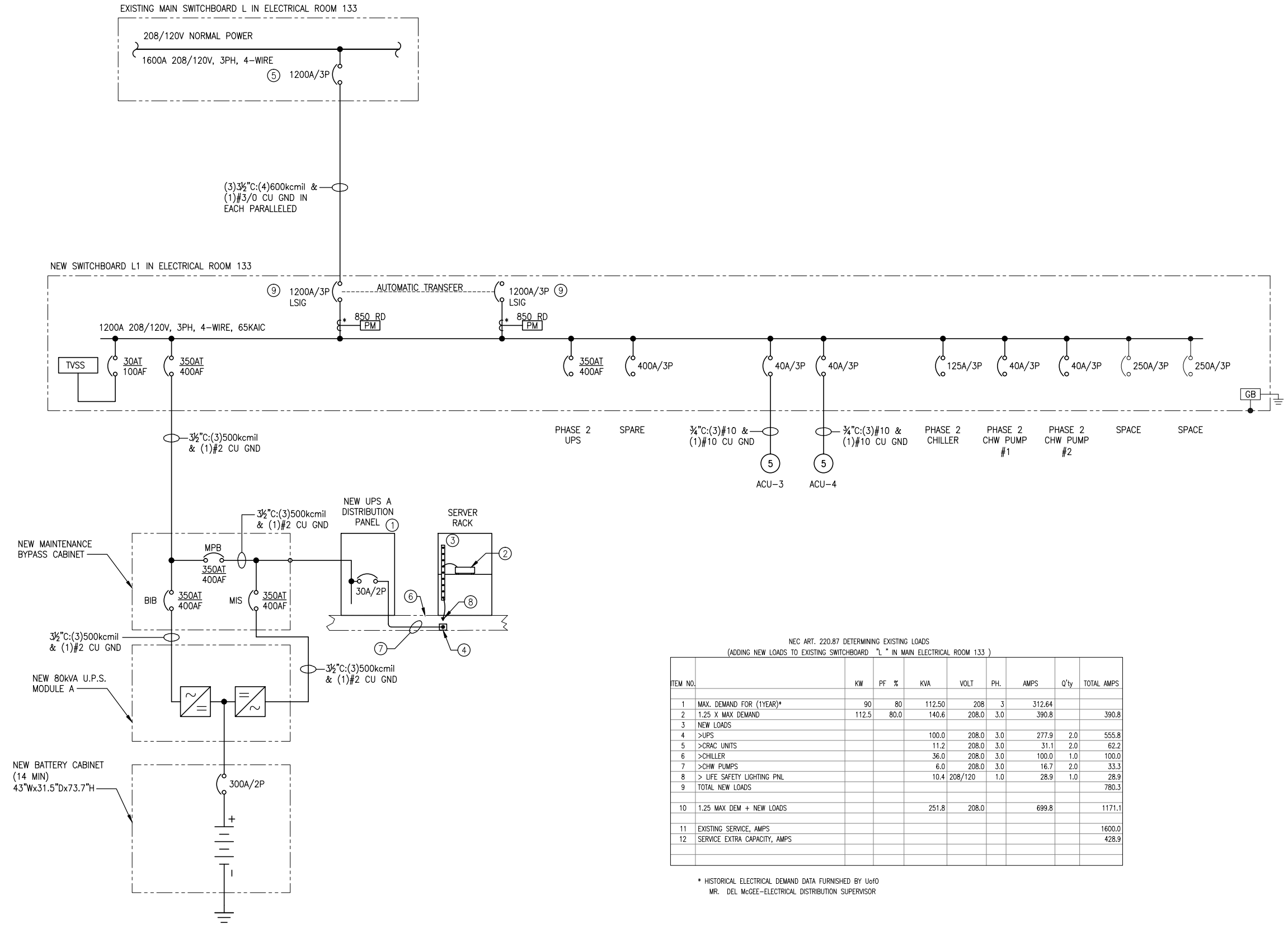
-  FIRE SYSTEM INTERFACE, MONITOR AND RELAY INTERFACE
-  BUILDING AUTOMATION SYSTEM
-  2-WAY CONTROL VALVE FURNISHED WITH ACU AND LOCATED WITHIN ACU CABINET
-  MOTORIZED CONTROL DAMPER, FURNISHED AND INSTALLED BY MECH. CONTRACTOR. ACTUATOR FURNISHED AND INSTALLED BY CONTROLS CONTRACTOR.



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<p>UNIVERSITY OF OREGON COMPUTER & INFORMATION SCIENCE DEPT. EUGENE, OREGON</p>	<p>DATE: 06/18/13 SCALE: NONE SHEET: 01 OF 01</p>								
<p>CLIENT: DESCHUTES HALL MACHINE ROOM UPGRADES CONTROL SCHEMATIC</p>	<p>JOB #: 2471.1 CLIENT REF #: 1000M06</p>								
<p>REVISIONS:</p> <table border="1"> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> </tr> <tr> <td>0</td> <td></td> <td></td> <td>ISSUED FOR BID</td> </tr> </table>	NO.	DATE	BY	DESCRIPTION	0			ISSUED FOR BID	<p>DATE: 1/4/13 BY: PLS APPD: GY REV: 0</p>
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- LEGEND:**
- (#) MOTOR, # INDICATES MOTOR HORSEPOWER
- KEY NOTES:**
- 225A, 120/208V, 3 ϕ , 4W, SURFACE MOUNTED PANEL WITH (21)-30A/2P CIRCUIT BREAKERS.
 - DUAL CORDED SERVER 100-240V DUAL INPUT POWER SUPPLY BY OWNER.
 - POWER STRIP BY OWNER.
 - 30A, 250V TWIST LOCK RECEPTACLE NEMA L6-30R (ORANGE COLOR).
 - INSTALL 1200A/3P CB IN EXISTING SWITCHBOARD L.
 - 8" RAISED FLOOR.
 - (2)#10, (1)#10 GND IN 3/4" LIQUID TIGHT FLEXIBLE METAL CONDUIT.
 - 30A, 250V TWIST LOCK PLUG NEMA L6-30P (ORANGE COLOR).
 - EQUIPMENT SIZED FOR 160KVA SYSTEM.



NEC ART. 220.87 DETERMINING EXISTING LOADS
(ADDING NEW LOADS TO EXISTING SWITCHBOARD "L" IN MAIN ELECTRICAL ROOM 133)

ITEM NO.		KW	PF %	KVA	VOLT	PH.	AMPS	Q'ty	TOTAL AMPS
1	MAX. DEMAND FOR (1YEAR)*	90	80	112.50	208	3	312.64		
2	1.25 X MAX DEMAND	112.5	80.0	140.6	208.0	3.0	390.8		390.8
3	NEW LOADS								
4	>UPS			100.0	208.0	3.0	277.9	2.0	555.8
5	>CRAC UNITS			11.2	208.0	3.0	31.1	2.0	62.2
6	>CHILLER			36.0	208.0	3.0	100.0	1.0	100.0
7	>CHW PUMPS			6.0	208.0	3.0	16.7	2.0	33.3
8	> LIFE SAFETY LIGHTING PNL			10.4	208/120	1.0	28.9	1.0	28.9
9	TOTAL NEW LOADS								780.3
10	1.25 MAX DEM + NEW LOADS			251.8	208.0		699.8		1171.1
11	EXISTING SERVICE, AMPS								1600.0
12	SERVICE EXTRA CAPACITY, AMPS								428.9

* HISTORICAL ELECTRICAL DEMAND DATA FURNISHED BY UoI
MR. DEL MCGEE-ELECTRICAL DISTRIBUTION SUPERVISOR

PHASE 1 - SINGLE LINE DIAGRAM
NONE

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UNIVERSITY OF OREGON
CLIENT: COMPUTER & INFORMATION SCIENCE DEPT.
LOCATION: EUGENE, OREGON

DESCHUTES HALL
TITLE: MACHINE ROOM UPGRADES
SINGLE LINE DIAGRAM - PHASE 1

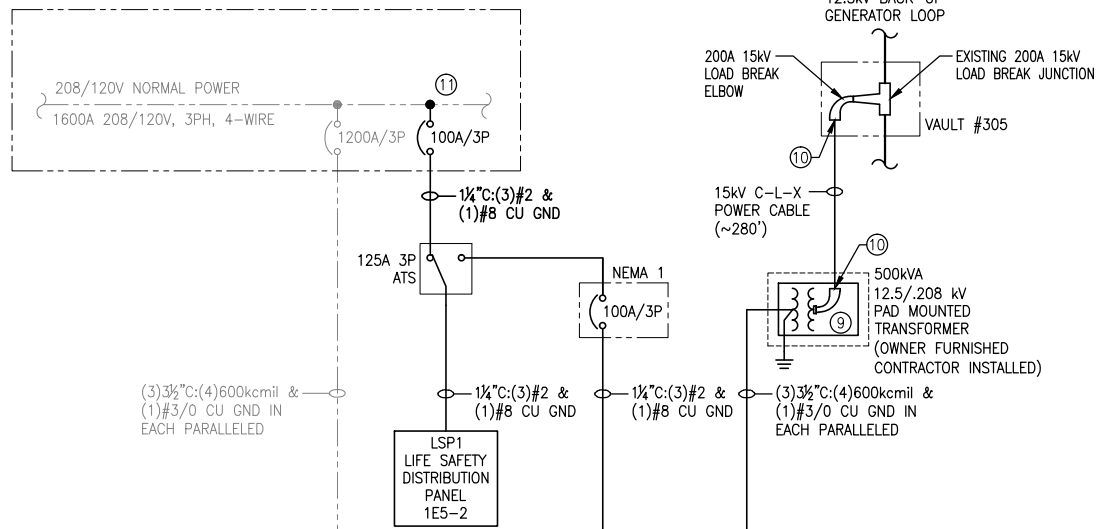
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CLIENT REF #: 1000E01

DATE: 5/17/12
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APPD: [Signature]
REV: 0
PLS: [Signature]
BY: [Signature]

CAD FILE: 1000E01-REV0

EXISTING MAIN SWITCHBOARD L
IN ELECTRICAL ROOM 133



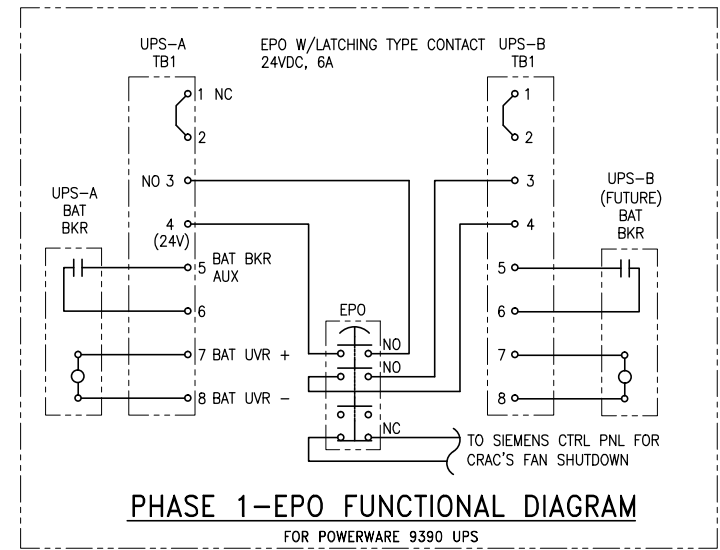
PHASE 1-EPO OPERATION:

In an emergency, lift the EPO cover and press the red push button. The push button will be Mechanically latched. 24VDC will be applied to the TB1 terminal 3 via a set of NO contacts that will shut down the UPS.

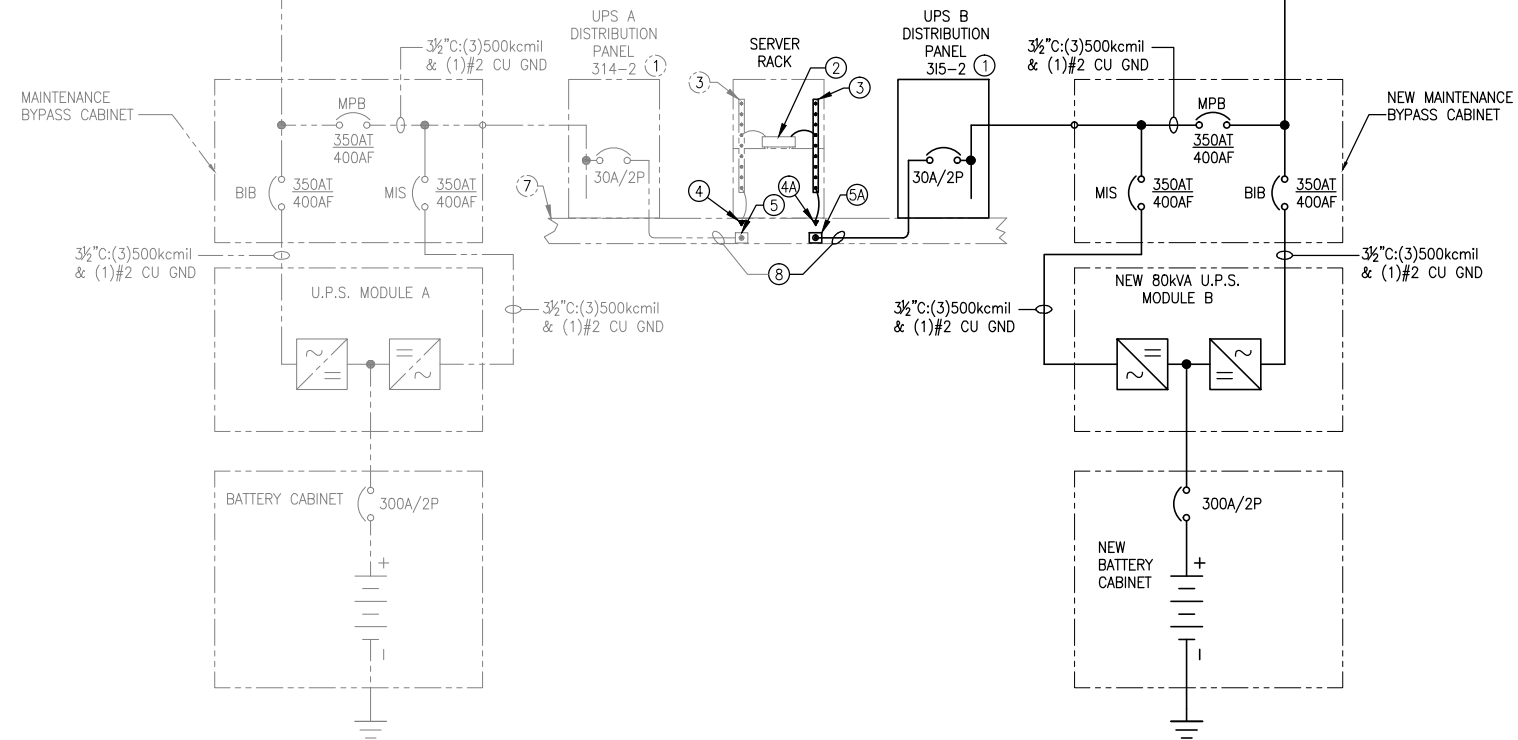
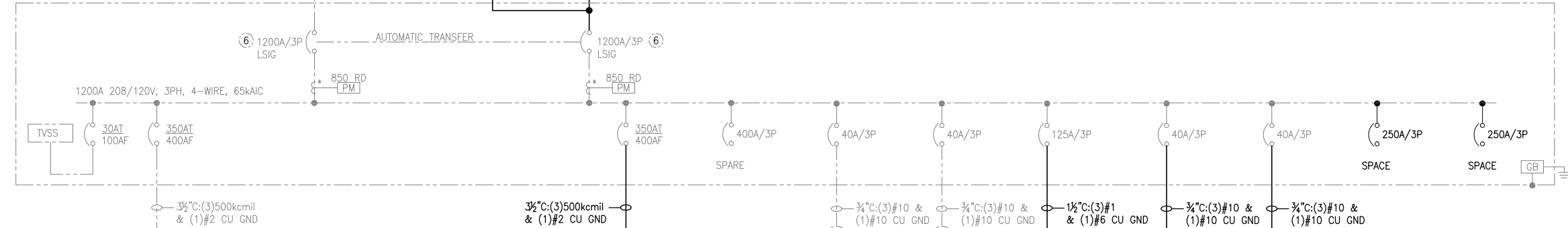
At the same time the shunt trip of the battery breaker will be energized via a set of NO contacts and the breaker will be disconnected.

Also a separate EPO NC set of contacts will provide a signal for the Siemens control panel to shut down the CRAC'S fan.

Use the provided key to reset the EPO.



SWITCHBOARD L1 IN ELECTRICAL ROOM 133



AUTOMATIC TRANSFER OPERATION

A. **Phase 1:** During this phase no backup power is available to the main 1200A switchboard and upon loss of normal power the critical load is supplied only for the duration of the UPS battery of approx. 12 secs. This allows for an orderly shutdown of critical equipment.

B. **Phase 2:** During this phase the main switchboard can be transferred to the backup generator power upon loss of normal source and input power to the UPS's can be supplied indefinitely. The sequence of transfer to and from the backup power is as follows:

1. While the normal power is available, the switchboard is energized via the 1200A main breaker and feeds the critical load via the two UPS's. The backup 1200A breaker is open. The switchboard PLC monitors continuously the condition of normal power voltage.
2. Upon loss of the normal power the PLC waits 3 sec and sends a starting signal to the generators. The generators start and after a period of generator stabilization of 10 sec, the PLC closes the 1200A main backup breaker and opens the 1200A main normal power breaker. This is a closed transition or make before break transition. The switchboard is fed from the generators and provides backup power to the critical load via the two UPS's.
3. Upon restoration of normal power and a 10sec duration of normal power stabilization, the PLC transfers the switchboard back to the normal power. The same closed transition is performed and briefly the normal and backup power are synchronized while connected in parallel. The generators continue to run for a 15 min cool down period after which they are shut down.

- LEGEND:**
- (#) MOTOR, # INDICATES MOTOR HORSEPOWER
- KEYED NOTES:**
- 1) 225A, 120/208V, 3Ø, 4W, SURFACE MOUNTED PANEL WITH (21) 30A/2P CIRCUIT BREAKERS.
 - 2) DUAL CORDED SERVER 100-240V DUAL INPUT POWER SUPPLY BY OWNER.
 - 3) RACK DUAL POWER STRIP BY OWNER.
 - 4) 30A, 250V TWIST LOCK PLUG NEMA L6-30P (ORANGE COLOR).
 - 4A) 30A, 250V TWIST LOCK PLUG NEMA L6-30P (BLUE COLOR).
 - 5) 30A, 250V TWIST LOCK RECEPTACLE NEMA L6-30R (ORANGE COLOR).
 - 5A) 30A, 250V TWIST LOCK RECEPTACLE NEMA L6-30R (BLUE COLOR).
 - 6) EQUIPMENT SIZED FOR 160kVA SYSTEM.
 - 7) 8" RAISED FLOOR.
 - 8) (2)#10, (1)#10 GND IN 3/4" LIQUID TIGHT FLEXIBLE METAL CONDUIT.
 - 9) OWNER PROVIDED, CONTRACTOR INSTALLED
 - 10) TERMINATE C-L-X CABLE WITH 200A 15kV LOAD BREAK ELBOWS AT BOTH ENDS.
 - 11) INSTALL 100A/3P CB IN EXISTING SWITCHBOARD L.

PHASE 2 - SINGLE LINE DIAGRAM
NONE

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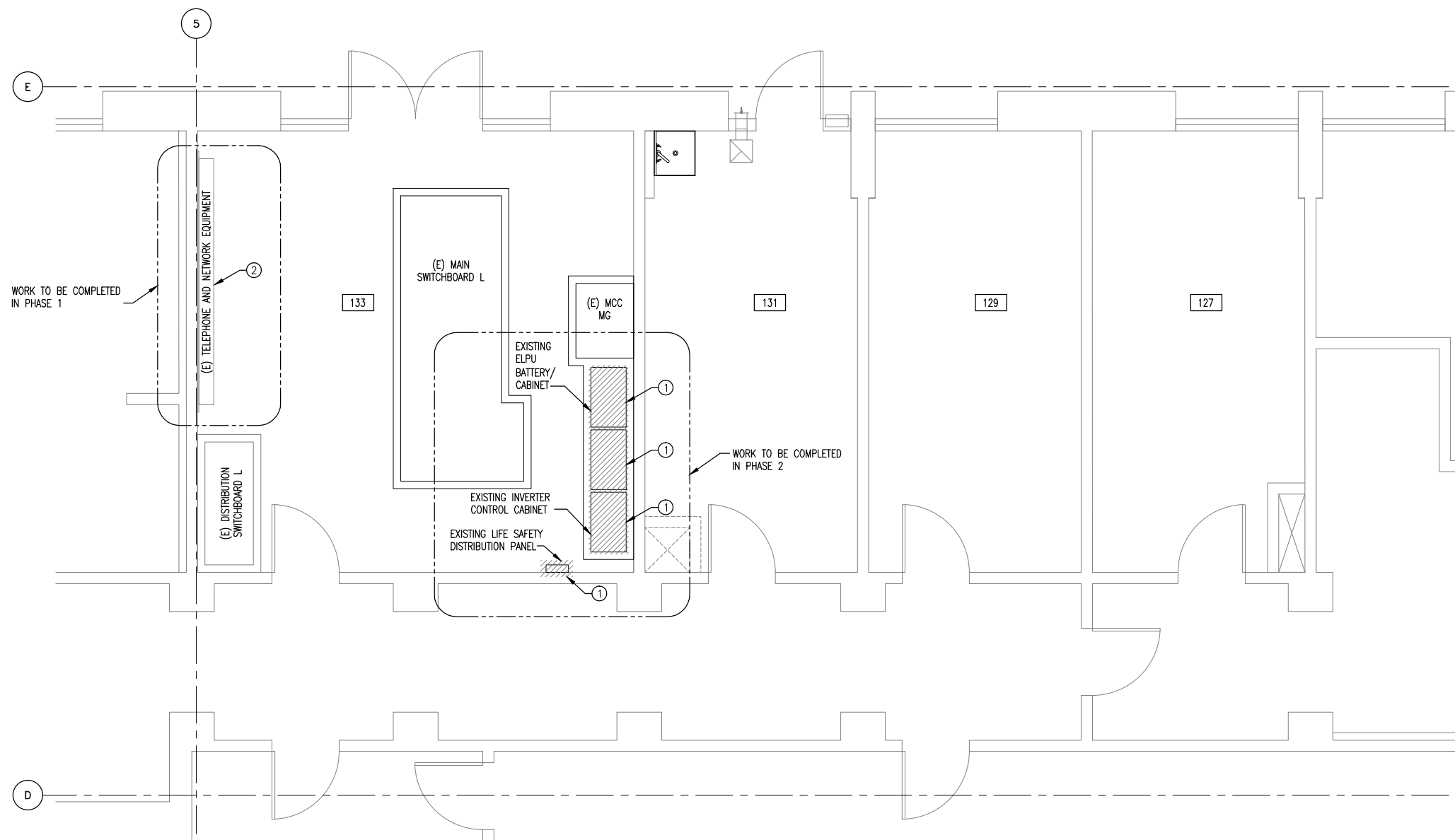
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COMPUTER & INFORMATION SCIENCE DEPT.
EUGENE, OREGON

CLIENT: UNIVERSITY OF OREGON
LOCATION: EUGENE, OREGON
JOB #: 2471.1
CLIENT REF #:
DRAWING #: 1000E02
DATE: 4/17/13
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APPD: GR
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THIRD PARTY PRODUCTION



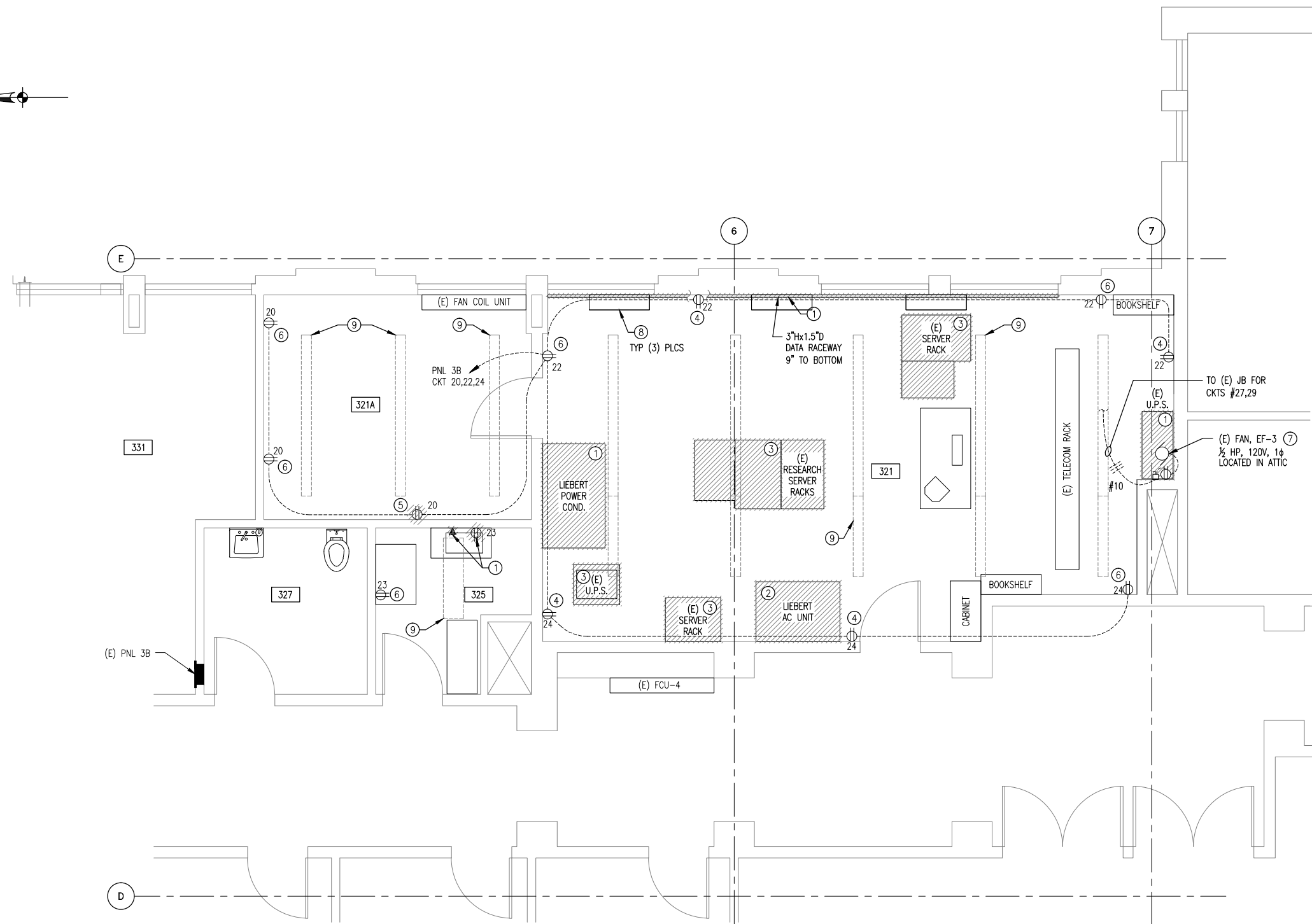
1ST FLOOR ELECTRICAL DEMOLITION PLAN
3/8"=1'-0"

KEYED NOTES:

- ① DISCONNECT AND REMOVE DURING PHASE 2. REMOVE ALL ASSOCIATED CONDUIT AND WIRE. DO NOT ABANDON IN PLACE.
- ② REMOVAL AND RELOCATION OF EXISTING TELEPHONE AND NETWORK EQUIPMENT TO BE BY UO NETWORK SERVICES. COORDINATE WITH JEFF HITE #541-346-1732, jeffh@uoregon.edu.

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REV	0	PLS	GT	1/4/13	ISSUED FOR BID
REV		BY	APPD	DATE	DESCRIPTION
CLIENT: UNIVERSITY OF OREGON COMPUTER & INFORMATION SCIENCE DEPT. EUGENE, OREGON LOCATION: DESIGN: PW DRAWING NO: 1005E01 DATE: 4/26/13 SCALE: 3/8"=1'-0" THIS DRAWING, INCLUDING DIMENSIONS, DESIGN AND EXISTENCE SPECIFICATIONS, IS INTENDED SOLELY FOR THE PROJECT STATED IN THE TITLE BLOCK. IF ANY NOT BE SUITABLE OR SAFE FOR OTHER PROJECTS, ANY OTHER USE OF THIS DRAWING WITHOUT WRITTEN CONSENT OF EVERGREEN ENGINEERING IS PROHIBITED.					
TITLE: DESCHUTES HALL MACHINE ROOM UPGRADES FIRST FLOOR ELECTRICAL DEMOLITION PLAN		DRAWING #: 1005E01		CLIENT REF #: 2471.1	

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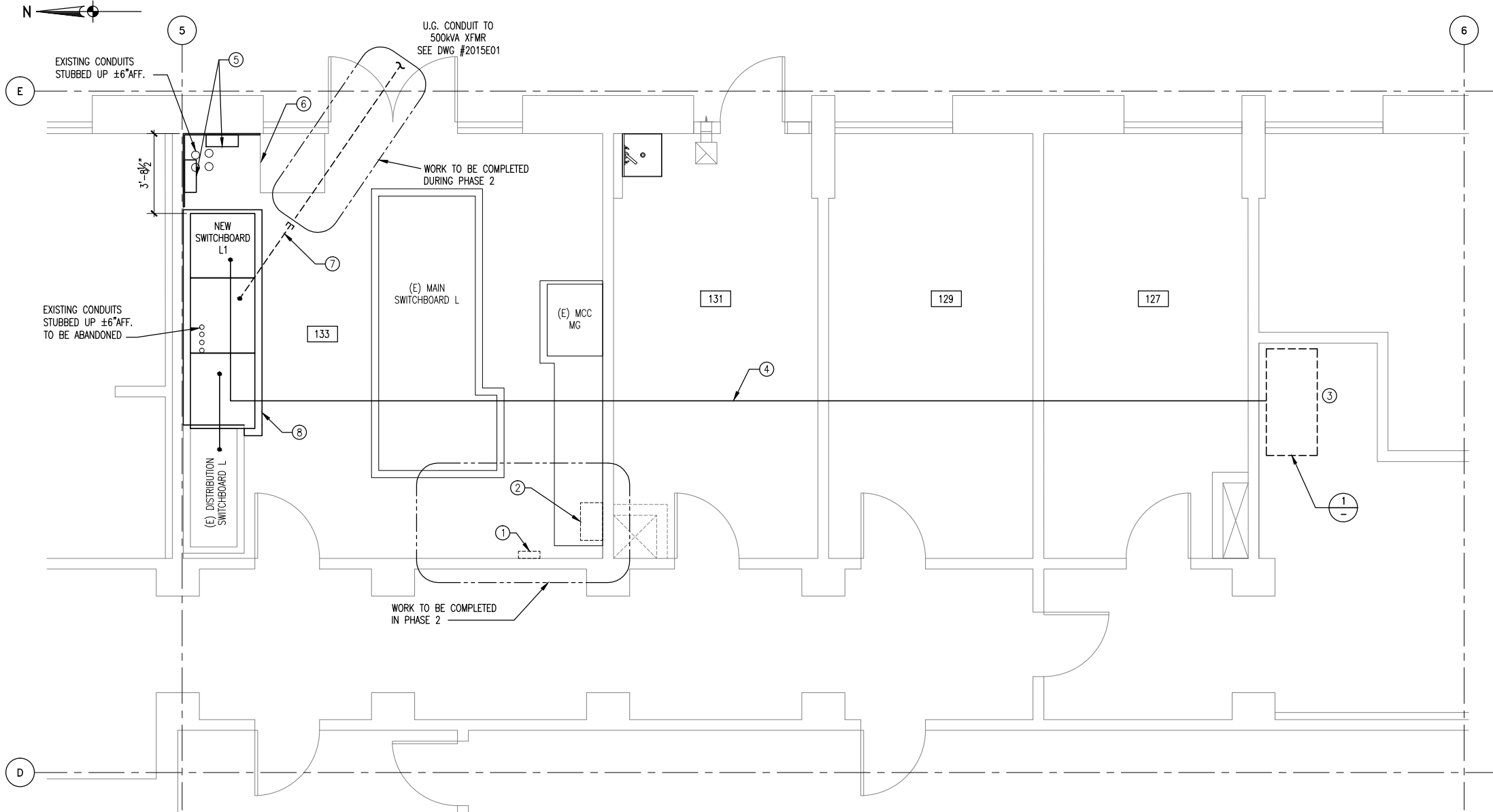
PHASE 1-PARTIAL 3RD FLOOR ELECTRICAL DEMOLITION PLAN
3/8"=1'-0"

KEYED NOTES:

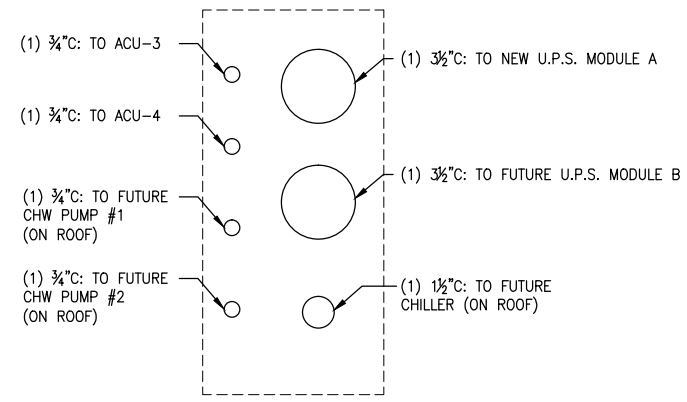
- ① DISCONNECT AND REMOVE, INCLUDING ALL ASSOCIATED CONDUIT AND WIRE.
- ② DISCONNECT LIEBERT UNIT AND DISCONNECT CIRCUIT BREAKER. REMOVE DISCONNECT CIRCUIT BREAKER AND ASSOCIATED WIRING TO PANEL "DP3", LOCATED IN ELECTRICAL CLOSET 352.
- ③ EQUIPMENT TO BE DISCONNECTED, RELOCATED, AND WIRED BY OTHERS.
- ④ REMOVE DUPLEX RECEPTACLE AND REPLACE WITH 4-PLEX RECEPTACLE.
- ⑤ REMOVE DUPLEX RECEPTACLE AND REROUTE EXISTING 120V WIRING.
- ⑥ EXISTING RECEPTACLES TO REMAIN.
- ⑦ DISCONNECT AND RELOCATE EXISTING ELECTRICAL SERVING EXHAUST FAN IN ATTIC. SEE DRAWING #1015E03 FOR NEW LOCATION OF LOCAL DISCONNECT AND RECEPTACLE.
- ⑧ DISCONNECT EXISTING ELECTRICAL FROM (E) MITSUBISHI WALL AC UNITS AND ROOFTOP CONDENSING UNITS.
- ⑨ RELOCATE LIGHTING FIXTURE. SEE DRAWING #1015E02 FOR NEW LOCATIONS.

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CLIENT: UNIVERSITY OF OREGON COMPUTER & INFORMATION SCIENCE DEPT. EUGENE, OREGON LOCATION: EUGENE, OREGON DESIGN: PW DRAWING: ADP DATE: 4/28/13 SCALE: 3/8"=1'-0" THIS DRAWING, INCLUDING DIMENSIONS, DESIGN AND EXISTENT SPECIFICATIONS, IS HEREBY SUBMITTED FOR THE PROJECT SHOWN IN THE TITLE BLOCK. IT MAY NOT BE REPRODUCED OR USED FOR OTHER PROJECTS, AND OTHER USE OF THIS DRAWING WITHOUT WRITTEN CONSENT OF EVERGREEN ENGINEERING IS PROHIBITED.	
TITLE: DESCHUTES HALL MACHINE ROOM UPGRADES THIRD FLOOR ELECTRICAL DEMOLITION PLAN DRAWING #: 1005E02 JOB #: 2471.1 CLIENT REF #:	
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1ST FLOOR ELECTRICAL PLAN
3/8"=1'-0"



1
DETAIL
NTS

GENERAL NOTES:

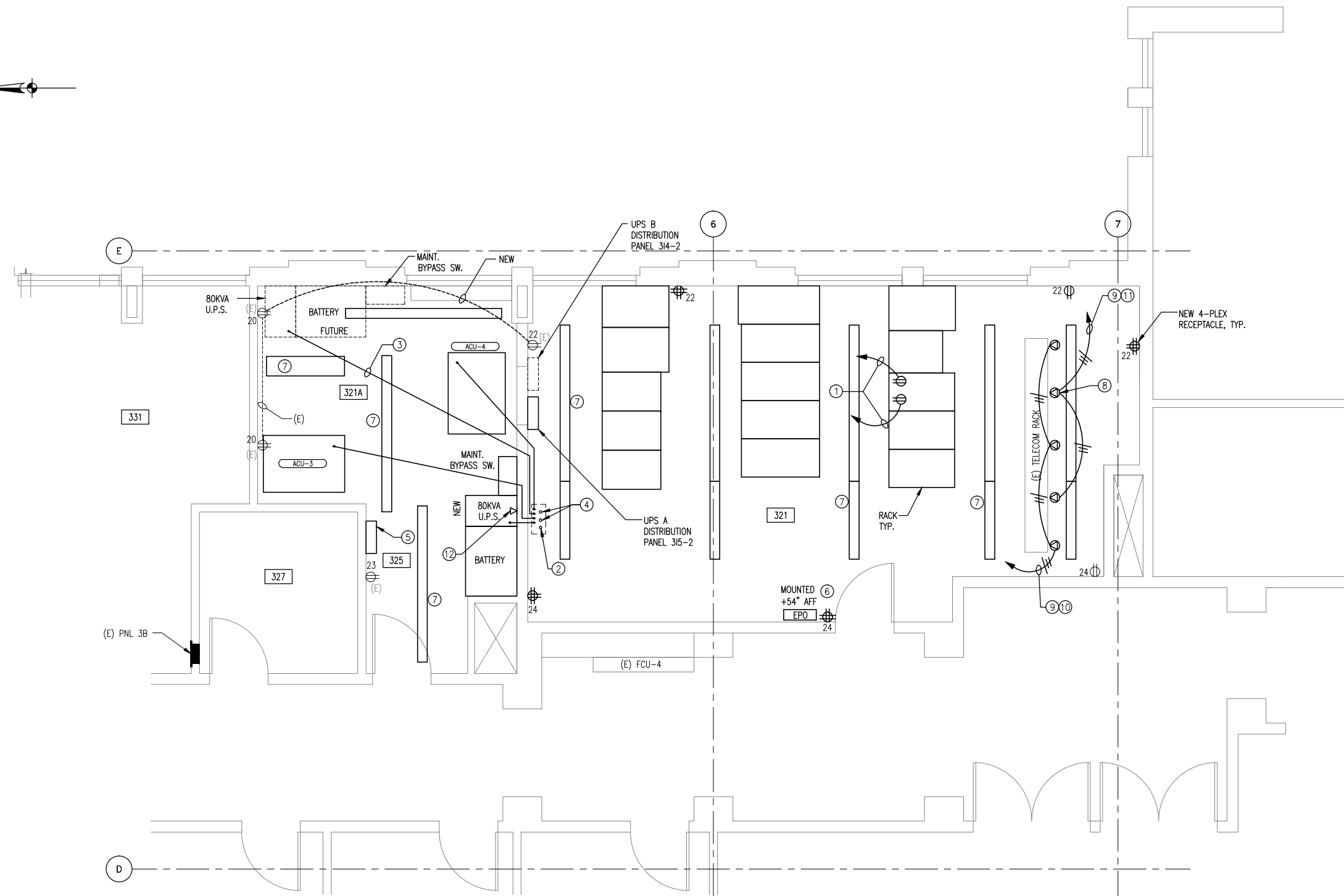
- A. ALL WORK TO BE PERFORMED DURING PHASE 1 UNLESS NOTED OTHERWISE.
- B. PROVIDE NEW SWITCHBOARD L1 AND WIRING. SEE DWG #1000E01 FOR CONDUIT AND CONDUCTOR SIZES.

KEY NOTES:

- ① NEW LIFE SAFETY DISTRIBUTION PANEL: 100A, 120/240V, 1PHASE, (30) CIRCUIT PANEL WITH (24)-20A/1P CIRCUIT BREAKERS AND WIRING IN PHASE 2. SEE DRAWING #1000E02.
- ② NEW AUTOMATIC TRANSFER SWITCH (125A/3P) AND WIRING TO SERVE NEW LIFE SAFETY PANEL IN PHASE 2. SEE DRAWING #1000E02.
- ③ ROUTE CONDUITS UP THROUGH 2ND FLOOR JANITOR ROOM 225 TO 3RD FLOOR. FIELD COORDINATE EXPOSED CONDUIT LOCATIONS IN JANITOR ROOM.
- ④ NEW OVERHEAD CONDUITS, SEE 1000E01 FOR CONDUCTOR AND CONDUIT SIZE.
- ⑤ NEW LOCATION OF OWNER RELOCATED TELEPHONE AND NETWORK EQUIPMENT.
- ⑥ EXISTING EXHAUST FAN, 6'-10" B.O. DUCT
- ⑦ CAP UNDERGROUND CONDUIT IN PHASE 1 FOR CONNECTION TO TRANSFORMER IN PHASE 2.
- ⑧ HOUSEKEEPING PAD, HEIGHT TO MATCH EXISTING.

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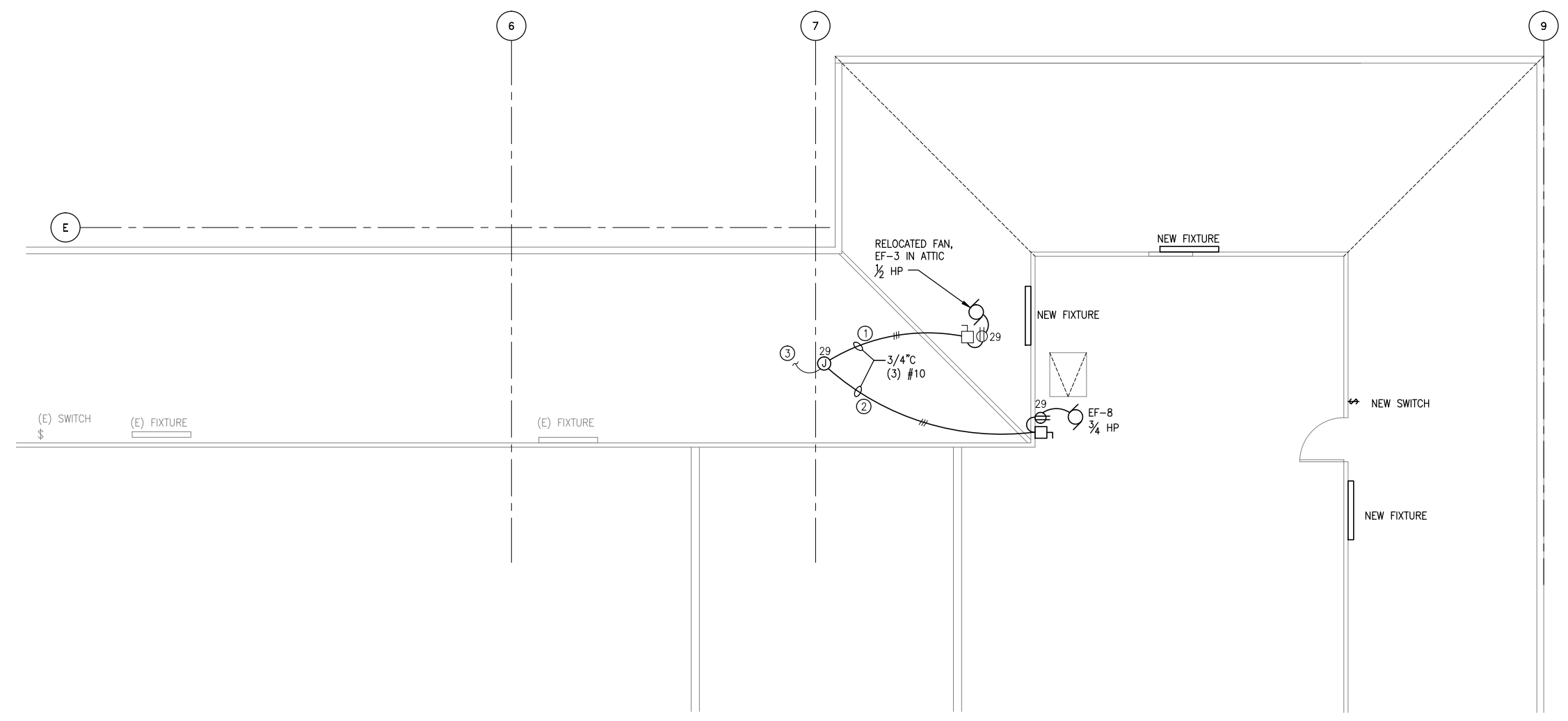
PHASE 1-PARTIAL 3RD FLOOR ELECTRICAL PLAN
3/8"=1'-0"

KEY NOTES:

- ① PROVIDE FROM EACH RACK RECEPTACLES AND HOME RUNS UNDER RAISED FLOOR TO U.P.S. A AND B DISTRIBUTION PANELS. SEE DWG #1000E01 AND #1000E02 FOR RECEPTACLE TYPE AND WIRE SIZES.
- ② EXTEND CONDUIT FOR FUTURE CHILLER TO ATTIC SPACE AND CAP.
- ③ CONTRACTOR TO FIELD VERIFY AND ROUTE OVERHEAD CONDUIT TO U.P.S. MODULE B.
- ④ EXTEND CONDUITS FOR FUTURE CHW PUMPS #1 & #2 TO ATTIC SPACE AND CAP.
- ⑤ SIEMENS CONTROL PANEL. PROVIDE 20A-1φ FROM PANEL UPS-A.
- ⑥ SEE DRAWING #1000E02 FOR EPO SEQUENCE OF OPERATION AND FUNCTIONAL DIAGRAM. SEE MECHANICAL DRAWING #1000M06 FOR CONNECTION TO BUILDING MANAGEMENT SYSTEM.
- ⑦ RELOCATED LIGHT FIXTURE.
- ⑧ 250V, 30A, TWIST LOCK RECEPTACLES NEMA L6-30 IN 4" SQUARE BOX, TYP 5 PLACES. RECEPTACLE AT EACH VERTICAL WIREWAY 6" ABOVE RAISED FLOOR.
- ⑨ PROVIDE 3#10 AWG WIRE IN 3/4" LIQUID TIGHT FLEXIBLE CONDUIT.
- ⑩ HOME-RUN TO A 30A-2P CIRCUIT BREAKER IN PANEL UPS-A.
- ⑪ HOME-RUN TO A 30A-2P CIRCUIT BREAKER IN PANEL UPS-B.
- ⑫ NETWORK OUTLET FOR UPS MONITORING. PROVIDE 4" SQUARE BOX WITH SINGLE GANG MUD RING AND 3/4" CONDUIT TO ATTIC. COORDINATE INSTALLATION OF NETWORK CABLING WITH JEFF HITE 541-346-1732 jeffh@uoregon.edu.

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DESIGNER: PW DATE: 07/05/13	CHECKER: RHC DATE: 07/05/13
DRAWING #: 1015E02 JOB #: 2471.1 CLIENT REF #:	APPR: [Signature] DATE:
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PHASE 1-PARTIAL ATTIC ELECTRICAL PLAN
1/4"=1'-0"

GENERAL NOTES:

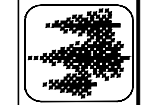
- A. NEW SWITCH AND NEW FIXTURES TO BE WIRED BY CONTRACTOR TO EXISTING LIGHTING CIRCUIT. WIRE SO THAT THE NEW SWITCH ENERGIZES NEW LIGHTING ONLY AND EXISTING SWITCH ENERGIZES EXISTING LIGHTING ONLY.
- B. NEW LIGHTING FIXTURES TO BE LITHONIA SM SERIES, CAT #SM132120ESGEB10RS.
- C. PLACEMENT OF NEW LIGHTS TO BE COORDINATED WITH AUTHORIZED MAINTENANCE PERSONAL.
- D. SEE MECHANICAL DRAWINGS FOR EXACT LOCATION OF EF-3 AND EF-8.

KEY NOTES:

- ① EXTEND CONDUIT AND WIRE TO NEW LOCATION OF EF-3.
- ② PROVIDE NEW 3/4" CONDUIT WITH (3) #10 FOR EF-8.
- ③ EXISTING WIRING TO PANEL GE, LOCATED ON GROUND FLOOR IN MAIN ELECTRICAL ROOM.

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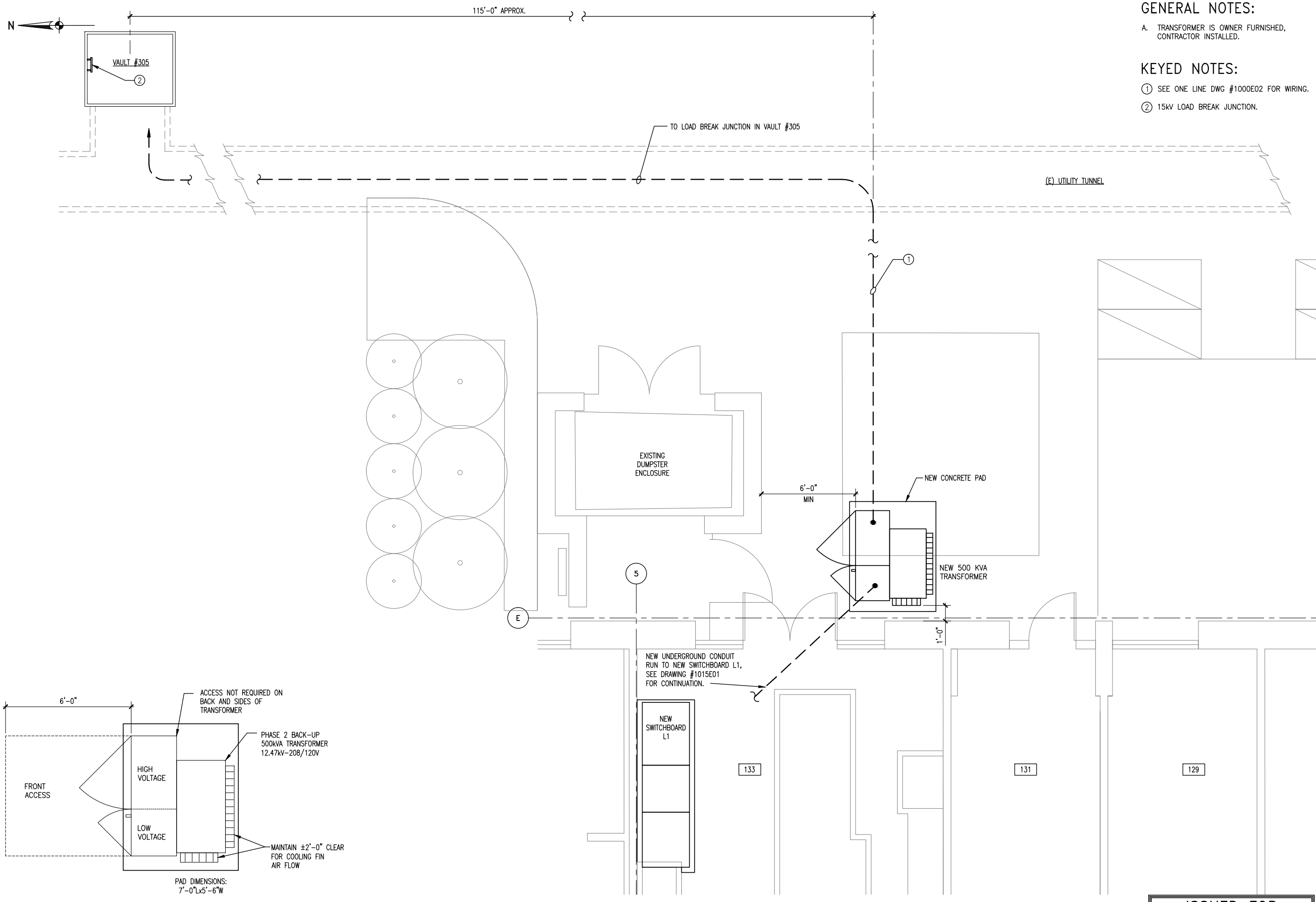
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TITLE:	DESCHUTES HALL MACHINE ROOM UPGRADES PARTIAL ATTIC ELECTRICAL PLAN	CLIENT:	UNIVERSITY OF OREGON COMPUTER & INFORMATION SCIENCE DEPT. EUGENE, OREGON
DRIVING #:	1015E03	LOCATION:	DESIGN: PAM DATE: 07/08/13
JOB #:	2471.1	SCALE:	AS SHOWN
CLIENT REF #:		DATE:	07/08/13

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GENERAL NOTES:

A. TRANSFORMER IS OWNER FURNISHED, CONTRACTOR INSTALLED.

KEYED NOTES:

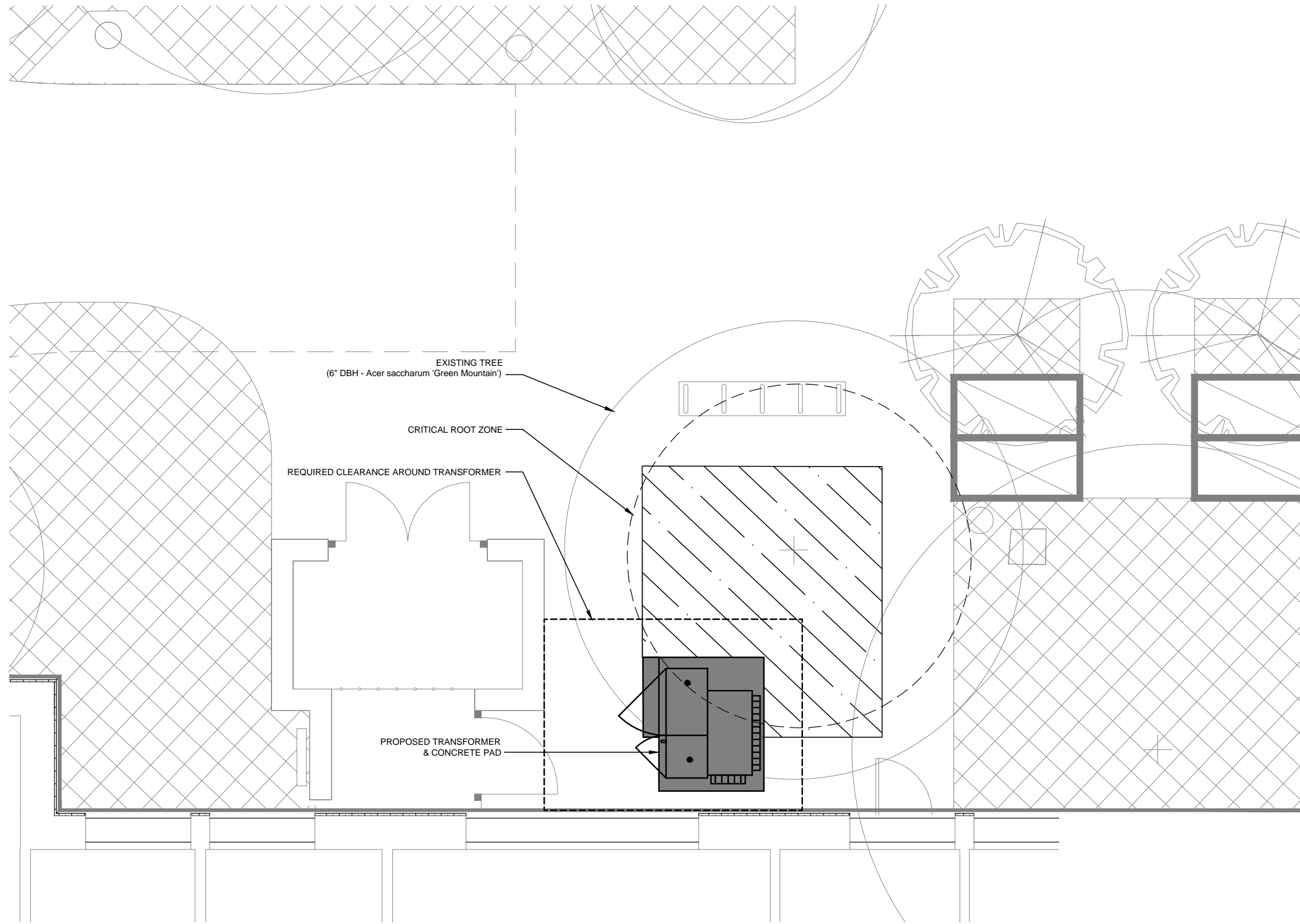
- ① SEE ONE LINE DWG #1000E02 FOR WIRING.
- ② 15KV LOAD BREAK JUNCTION.

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<p>UNIVERSITY OF OREGON COMPUTER & INFORMATION SCIENCE DEPT. EUGENE, OREGON</p>	<p>CLIENT: UNIVERSITY OF OREGON COMPUTER & INFORMATION SCIENCE DEPT. EUGENE, OREGON</p>
<p>DESCHUTES HALL MACHINE ROOM UPGRADES PARTIAL SITE ELECTRICAL PLAN</p>	<p>LOCATION: EUGENE, OREGON</p>
<p>REV: 0 DRAWING #: 2015E01 JOB #: 2471.1 CLIENT REF #: 2471.1</p>	<p>DESIGNER: PW CHECKER: RHC DATE: 07/08/13 SCALE: AS SHOWN APPX: JMS</p>
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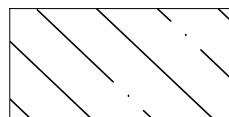
PROPOSED XFMR
1/2"=1'-0"

PHASE 2-PARTIAL SITE ELECTRICAL PLAN
3/8"=1'-0"

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EXISTING LANDSCAPE AREA -
OUTSIDE OF LIMIT OF WORK
ZONE - DO NOT DISTURB



EXISTING LANDSCAPE AREA -
REPAIR TO PRE-CONSTRUCTION
CONDITIONS

1 PHASE 2-LANDSCAPE SITE PLAN
L-1 Scale: 3/8"=1'-0"



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TITLE: DESCHUTES HALL
MACHINE ROOM UPGRADES
LANDSCAPING PLAN

CLIENT: UNIVERSITY OF OREGON
COMPUTER & INFORMATION SCIENCE DEPT.
EUGENE, OREGON

REVISIONS:
0 1000L01 2471.1
DRAWING # JOB # CLIENT REF #

DATE: 7/1/12
SCALE: 3/8" = 1'-0"
DATE: 7/1/12

DESIGN: [blank] CHECK: [blank] APPROVED: [blank]

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