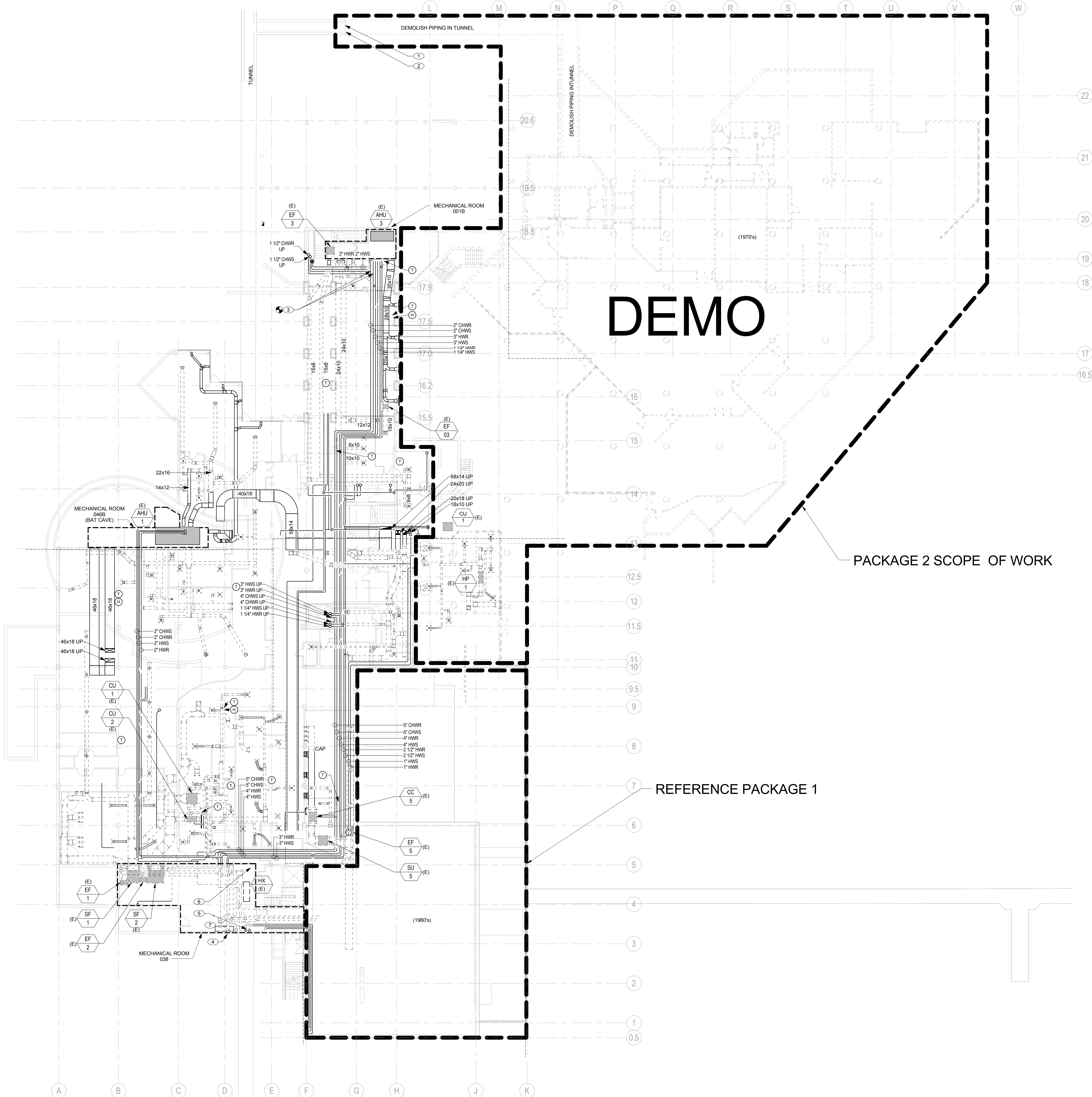


1 GROUND LEVEL PLAN - HVAC

SCALE: 1/16" = 1'-0"

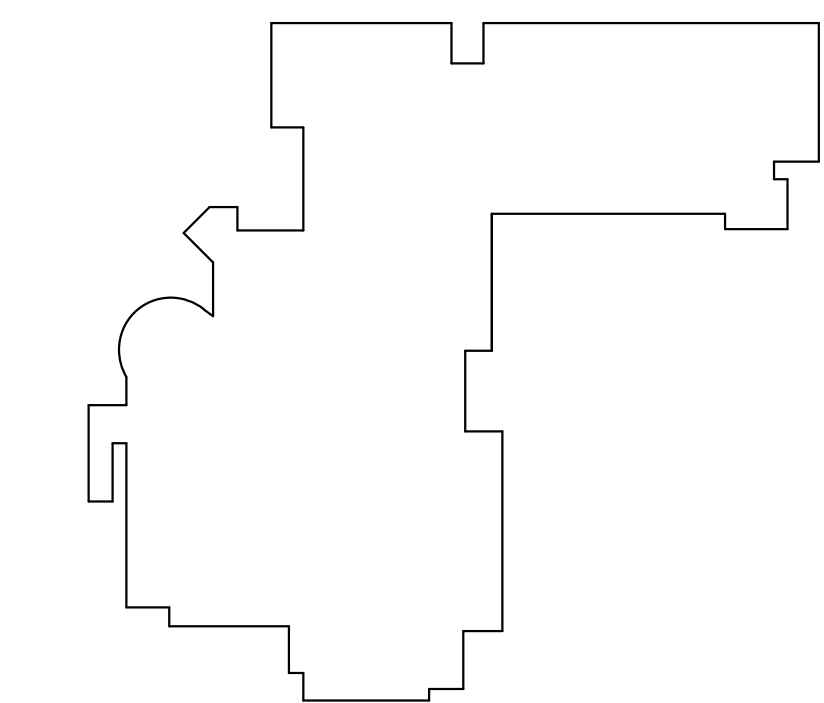


GENERAL NOTES

- A DEMOLITION SCOPE OF EQUIPMENT, DUCTWORK, PIPING, ETC IN EXISTING BUILDING IS SHOWN FOR REFERENCE AND IS DEVELOPED THROUGH REFERENCE OF EXISTING BUILDING AS-BUILT DOCUMENTATION AND SITE WALKS. WHERE PROJECT INVOLVES INTERFACE WITH EXISTING BUILDING AND SITE SYSTEMS, EVERY EFFORT HAS BEEN MADE TO NOTE EXISTING UTILITIES AND SERVICES. HOWEVER, THE CONTRACTOR SHOULD THOROUGHLY FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND BE AWARE THAT IN SOME CASES INFORMATION IS NOT AVAILABLE AS TO CONCEALED CONDITIONS, WHICH EXIST IN PORTIONS OF THE EXISTING BUILDING AFFECTED BY THIS WORK. NOTIFY OWNER, ARCHITECT, AND ENGINEER OF EXISTING CONDITIONS DISCOVERED DURING THE DEMOLITION PHASE.
- B THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL INTERIOR DETAILS, FLOOR PLANS, ELEVATIONS, AND THE STRUCTURAL AND OTHER CONTRACT DRAWINGS AND SHALL COORDINATE WORK WITH THAT OF THE OTHER TRADES TO AVOID INTERFERENCE. THE PLANS ARE DIAGRAMMATIC AND SHOW GENERALLY THE LOCATIONS OF THE FIXTURES, EQUIPMENT, AND PIPES AND ARE NOT TO BE SCALED. ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED IN THE FIELD.
- C REFERENCE DM600 SERIES DRAWINGS FOR ONE LINE DOCUMENTATION OF SYSTEM DEMOLITION REQUIREMENTS.
- D THE ENTIRE 1970'S ADDITION AND ASSOCIATED SERVICES SHALL BE DEMOLISHED. REFER TO NOTES FOR SELECTED AREAS WHERE SYSTEMS IN THE 1970'S BUILDING ARE REQUIRED TO MAINTAIN THE SERVICES OF THE EXISTING BUILDING TO REMAIN. COORDINATE WITH UO FOR EQUIPMENT VALVES, ETC THAT MUST BE RETURNED TO OWNER FOR REUSE.
- E THE ENTIRE 1980'S ADDITION HVAC SERVICES SHALL BE DEMOLISHED EXCEPT WHERE NOTED.
- F EXISTING THERMOSTATS ARE ONLY PARTIALLY SHOWN ON THESE DRAWINGS. CONTROLS CONTRACTOR SHALL LOCATE ALL (E) THERMOSTATS AND SENSORS IN (E) BUILDING TO DETERMINE FINAL SENSOR REPLACEMENT SCOPE OF WORK AS PART OF THE DESIGN BUILD CONTROLS SCOPE. REPLACE ALL SENSORS IN (E) AREAS WITH (N) SENSORS AS PART OF DESIGN.

SHEET NOTES (#)

- 1 COORDINATE CAMPUS UTILITY SHUTDOWN WITH UNIVERSITY. INSTALL 4" SHUT OFF VALVES IN CAMPUS CHILLED WATER SUPPLY/RETURN BRANCH PIPING SERVING THE 1970 ADDITION. DEMO CHILLED WATER PIPING DOWNSTREAM OF VALVES TO THE 1970 ADDITION.
- 2 COORDINATE CAMPUS UTILITY SHUTDOWN WITH UNIVERSITY. INSTALL 4" SHUT OFF VALVE IN CAMPUS STEAM BRANCH PIPING SERVING THE 1970 ADDITION. DEMO STEAM PIPING DOWNSTREAM OF VALVE TO THE 1970 ADDITION. DEMO CONDENSATE PIPE BACK TO THE LOCATION OF THE STEAM SHUT OFF VALVE PROVIDE TEMPORARY CAP FOR FUTURE CONDENSATE CONNECTION.
- 3 PACKAGE 2 SCOPE: DEMOLISH 1 1/4" CHWS/R TO THIS POINT IN BASEMENT. PROVIDE (N) 1 1/2" CHILLED WATER PIPING UP TO AHU-2. SEE M600 SERIES FOR MORE DETAILS.
- 4 DEMOLISH ALL MECHANICAL DUCTWORK, PIPING AND EQUIPMENT IN THIS ROOM. DEMOLISH STEAM/CONDENSATE & CHILLED WATER PIPING BACK TO BUILDING ENTRY. SCOPE INCLUDES SUPPLY FANS, EXHAUST FANS, HEAT EXCHANGER, HEATING PUMPS, EXPANSION TANK, CONDENSATE PUMPS. SEE PLUMBING DRAWINGS ADDITIONAL DEMO SCOPE AND EXISTING EQUIPMENT TO REMAIN.
- 5 CHILLED WATER BUILDING ENTRY LOCATION
- 6 STEAM & CONDENSATE BUILDING ENTRY LOCATION
- 7 STACKED HEATING PUMPS



KEY PLAN

(NTS)

SERA

ARCHITECTURE
URBAN DESIGN + PLANNING
INTERIOR DESIGN

338 NW 5TH AVENUE
PORTLAND OREGON 97209
P: 503.445.7372
F: 503.445.7368
SERAPDX.COM

GLUMAC

900 SW Fifth Ave., Suite 1600
Portland, OR 97204
T: 503.227.5286 F: 503.274.7674
www.glumac.com
Job No: 02-13-05645
Contact: JOSH CHECKIS
engineers for a sustainable future™

ERB MEMORIAL UNION - RENOVATION & ADDITION
PACKAGE 4
UNIVERSITY OF OREGON
13TH AVENUE & UNIVERSITY STREET

REVISIONS

CHECKED BY:
ISSUE DATE: 2014.03.14
PROJECT NO.: 11045

DEMO PLAN -
GROUND LEVEL
FLOOR PLAN -
HVAC

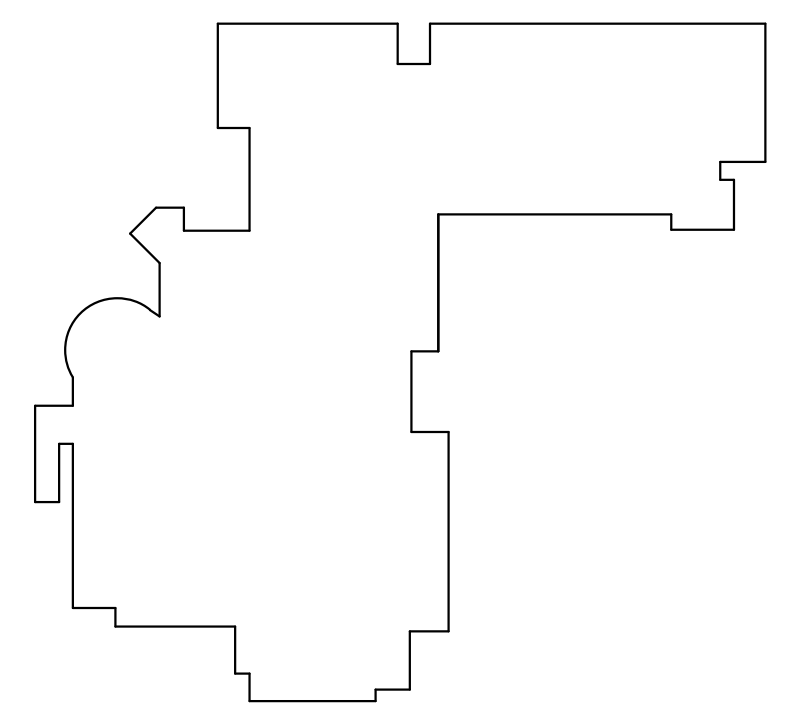
DM100



- A DEMOLITION SCOPE OF EQUIPMENT, DUCTWORK, PIPING, ETC. IN EXISTING BUILDING IS SHOWN FOR THE CONTRACTOR TO VERIFY. THE CONTRACTOR SHALL HAVE REFERENCE OF EXISTING BUILDINGS AS-BUILT DOCUMENTATION AND SITE WALKS, WHERE AVAILABLE, TO VERIFY THE EXISTING BUILDING AND SITE SYSTEMS. EVERY EFFORT HAS BEEN MADE TO NOTE EXISTING UTILITIES AND EQUIPMENT, HOWEVER, THE CONTRACTOR SHOULD THOROUGHLY FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND BE AWARE THAT IN SOME AREAS THERE MAY BE CONCEALED CONDITIONS, WHICH EXIST IN PORTIONS OF THE EXISTING BUILDING AFFECTED BY THE WORK. NOTIFY THE OWNER AND ENGINEER OF EXISTING CONDITIONS DISCOVERED DURING THE DEMOLITION PHASE.
- B. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL, STRUCTURAL, AND MECHANICAL PLANS, ELEVATIONS, AND THE STRUCTURAL AND OTHER CONTRACT DRAWINGS AND SHALL COORDINATE WITH THE ARCHITECT THAT THE WORK IS TO BE DONE TO AVOID INTERFERENCE. THE PLANS ARE DIAGRAMMATIC AND SHOW GENERALLY THE LOCATION OF THE EXISTING STRUCTURE, AND PIPES AND ARE NOT TO BE SCALED. ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED IN THE FIELD.
- C. REFERENCE DMM00 SERIES DRAWINGS FOR ONE LINE DOCUMENTATION OF SYSTEM DEMOLITION REQUIREMENTS.
- D. THE ENTIRE 1975/83 ADDITION AND ASSOCIATED SERVICES SHALL BE DEMOLISHED. REFER TO NOTES FOR SELECTED AREAS WHERE SYSTEMS IN EXISTING BUILDING ARE TO REMAIN. COORDINATE THE SERVICES OF THE EXISTING BUILDING TO REMAIN. COORDINATE WITH UO FOR EQUIPMENT, VENTILATION, THAT MUST BE RETURNED TO OWNER FOR REUSE.
- E. THE ENTIRE 1960/5 ADDITION HVAC SERVICES SHALL BE DEMOLISHED EXCEPT WHERE NOTED. THE THERMOGRAPHIC SURVEY RESULTS ARE NOT SHOWN ON THESE DRAWINGS. CONTROLS CONTRACTOR SHALL LOCATE ALL (E) BUILDING TO DETERMINE FINAL SENSOR REPLACEMENT SCOPE OF WORK AS PART OF THE DESIGN BUILD PHASE. THE SCOPE OF WORK SHALL INCLUDE AREAS WITH (N) SENSORS AS PART OF DESIGN.

SHEET NOTES

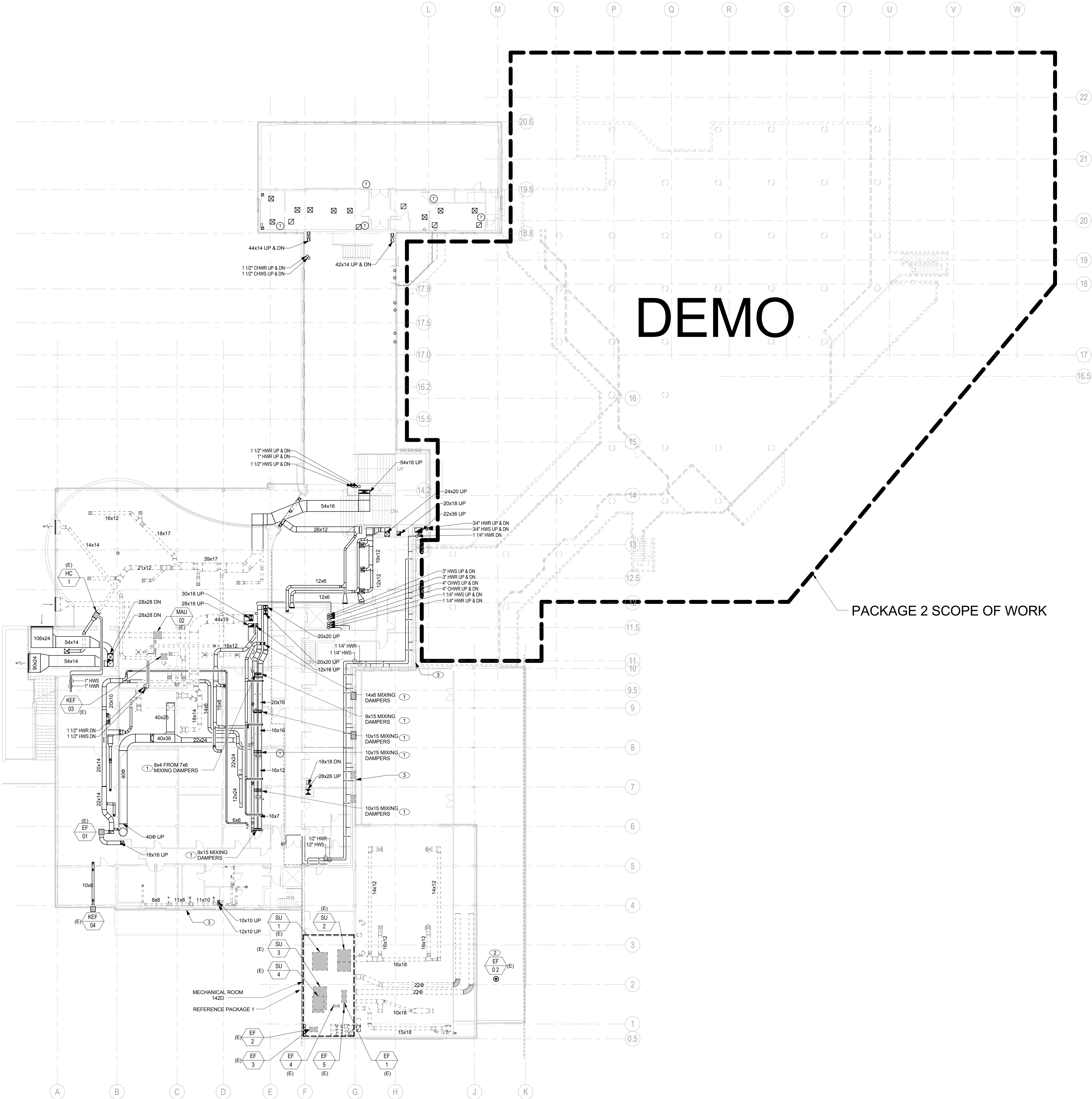
- 1 DEMOLISH ALL HOT WATER HEATER PIPING AND RADIATORS IN THIS FIRST FLOOR NORTH AREA.
- 2 DEMOLISH HOT WATER PIPING BACK TO SHAFT AND CAP.
- 3 DEMOLISH PIPING BACK TO MAIN.



KEY PLAN (NTS)

1 DEMO PLAN - MEZZANINE FLOOR PLAN - HVAC

SCALE: 1/16" = 1'-0"

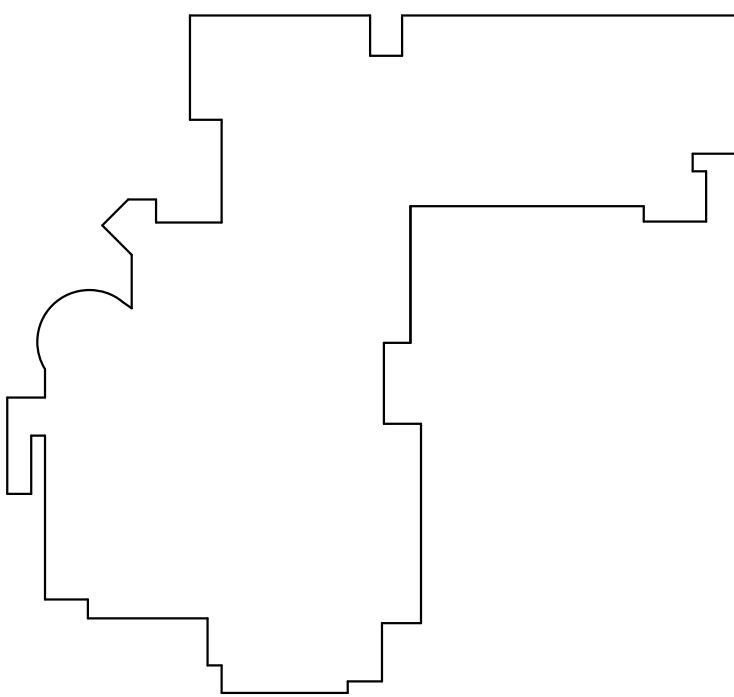


GENERAL NOTES

- A DEMOLITION SCOPE OF EQUIPMENT, DUCTWORK, PIPING, ETC IN EXISTING BUILDING IS SHOWN FOR REFERENCE AND IS DEVELOPED THROUGH REFERENCE OF EXISTING BUILDING AS-BUILT DOCUMENTATION AND SITE WALKS. WHERE PROJECT INVOLVES INTERFACE WITH EXISTING BUILDING AND SITE SYSTEMS, EVERY EFFORT HAS BEEN MADE TO NOTE EXISTING UTILITIES AND SERVICES. HOWEVER, THE CONTRACTOR SHOULD THOROUGHLY FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND BE AWARE THAT IN SOME CASES INFORMATION IS NOT AVAILABLE AS TO CONCEALED CONDITIONS, WHICH EXIST IN PORTIONS OF THE EXISTING BUILDING AFFECTED BY THIS WORK. NOTIFY OWNER, ARCHITECT, AND ENGINEER OF EXISTING CONDITIONS DISCOVERED DURING THE DEMOLITION PHASE.
- B THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL, INTERIOR DETAILS, FLOOR PLANS, ELEVATIONS, AND THE STRUCTURAL AND OTHER CONTRACT DRAWINGS AND SHALL COORDINATE WORK WITH THAT OF THE OTHER TRADES TO AVOID INTERFERENCE. THE PLANS ARE DIAGRAMMATIC AND SHOW GENERALLY THE LOCATIONS OF THE FIXTURES, EQUIPMENT, AND PIPES AND ARE NOT TO BE SCALED. ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED IN THE FIELD.
- C REFERENCE DM600 SERIES DRAWINGS FOR ONE LINE DOCUMENTATION OF SYSTEM DEMOLITION REQUIREMENTS.
- D THE ENTIRE 1970'S ADDITION AND ASSOCIATED SERVICES SHALL BE DEMOLISHED. REFER TO NOTES FOR SELECTED AREAS WHERE SYSTEMS IN THE 1970'S BUILDING ARE REQUIRED TO MAINTAIN THE SERVICES OF THE EXISTING BUILDING TO REMAIN. COORDINATE WITH UO FOR EQUIPMENT VALVES, ETC THAT MUST BE RETURNED TO OWNER FOR REUSE.
- E THE ENTIRE 1980'S ADDITION HVAC SERVICES SHALL BE DEMOLISHED EXCEPT WHERE NOTED.
- F EXISTING THERMOSTATS ARE ONLY PARTIALLY SHOWN ON THESE DRAWINGS. CONTROLS CONTRACTOR SHALL LOCATE ALL (E) THERMOSTATS AND SENSORS IN (E) BUILDING TO DETERMINE FINAL SENSOR REPLACEMENT SCOPE OF WORK AS PART OF THE DESIGN BUILD CONTROLS SCOPE. REPLACE ALL SENSORS IN (E) AREAS WITH (N) SENSORS AS PART OF DESIGN.

SHEET NOTES

- 1 DEMOLISH (E) DAMPERS AND CONTROLS.
- 2 KEEP EXHAUST FAN FOR (N) DESIGN. CONTROL PER SWS PER SPECIFICATIONS.
- 3 DEMOLISH (E) RADIATORS ALONG ENTIRE PERIMETER SOUTH & EAST WALLS. DEMOLISH VALVES & CAP PIPING BEHIND WALL.



KEY PLAN

(NTS)

SERA

ARCHITECTURE
URBAN DESIGN + PLANNING
INTERIOR DESIGN

338 NW 5TH AVENUE
PORTLAND OREGON 97209
P: 503.445.7372
F: 503.445.7365
SERAPDX.COM

GLUMAC

900 SW Fifth Ave., Suite 1600
Portland, OR 97204
T: 503.227.5280 F: 503.274.7674
www.glumac.com
Job No: 02.13.05645
Contact: JOSH CHECKIS
engineers for a sustainable future™

ERB MEMORIAL UNION - RENOVATION & ADDITION
PACKAGE 4

UNIVERSITY OF OREGON
13TH AVENUE & UNIVERSITY STREET

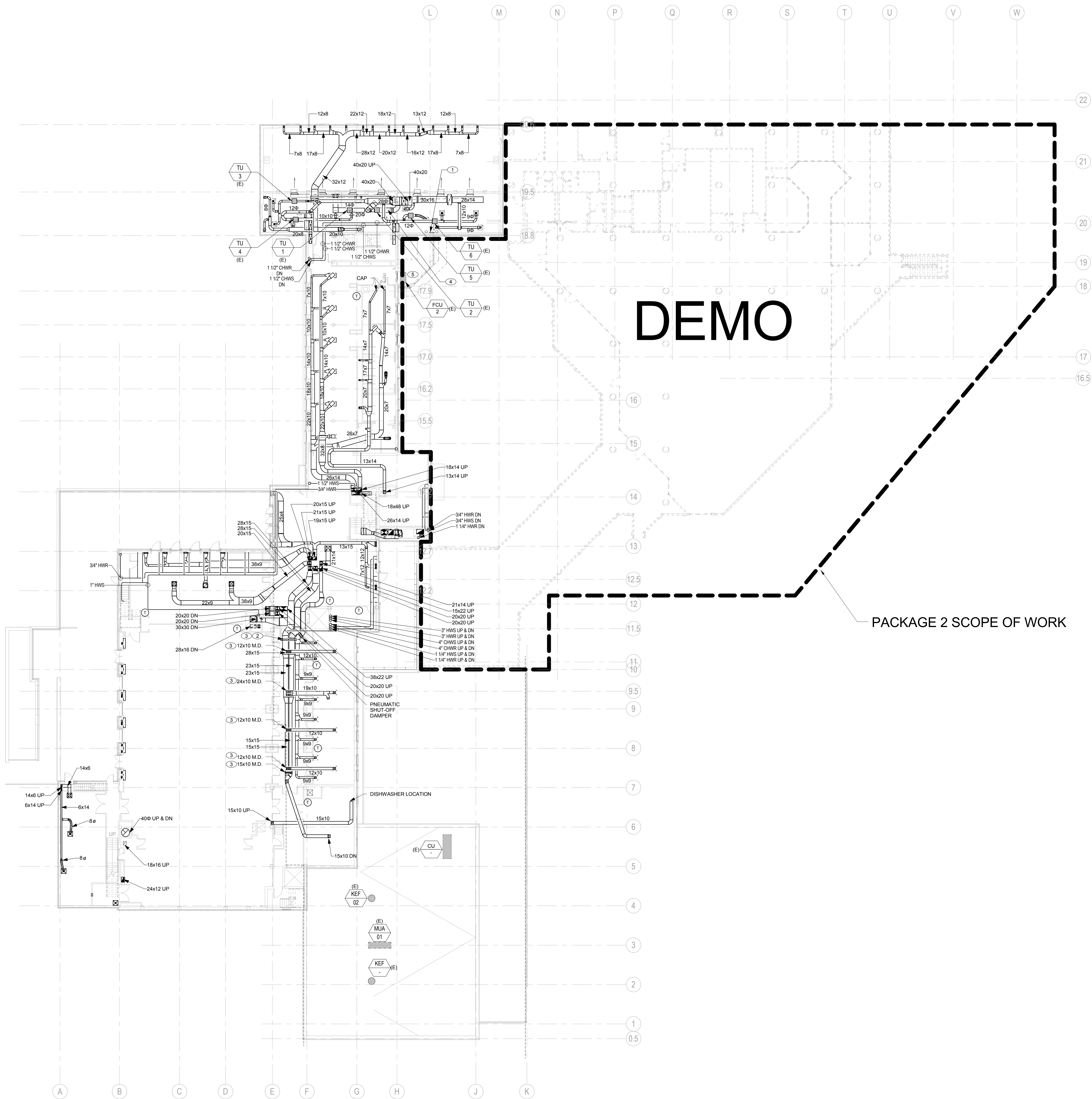
REVISIONS

CHECKED BY:
ISSUE DATE: 2014.03.14
PROJECT NO.: 11045

DEMO PLAN -
MEZZANINE
LEVEL PLAN -
HVAC

DM101m

1 DEMO PLAN - LEVEL 2 PLAN - HVAC
SCALE: 1/16" = 1'-0"

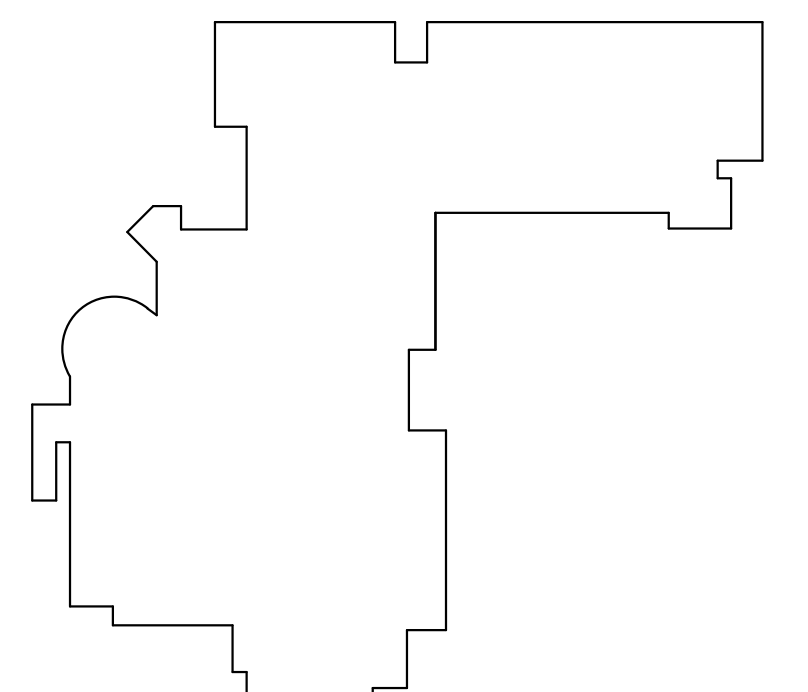


GENERAL NOTES

- A DEMOLITION SCOPE OF EQUIPMENT, DUCTWORK, PIPING, ETC IN EXISTING BUILDING IS SHOWN FOR REFERENCE AND IS DEVELOPED THROUGH REFERENCE OF EXISTING BUILDING AS-BUILT DOCUMENTATION AND SITE WALKS. WHERE PROJECT INVOLVES INTERFACE WITH EXISTING BUILDING AND SITE SYSTEMS, EVERY EFFORT HAS BEEN MADE TO NOTE EXISTING UTILITIES AND SERVICES. HOWEVER, THE CONTRACTOR SHOULD THOROUGHLY FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND BE AWARE THAT IN SOME CASES INFORMATION IS NOT AVAILABLE AS TO CONCEALED CONDITIONS, WHICH EXIST IN PORTIONS OF THE EXISTING BUILDING AFFECTED BY THIS WORK. NOTIFY OWNER, ARCHITECT, AND ENGINEER OF EXISTING CONDITIONS DISCOVERED DURING THE DEMOLITION PHASE.
- B THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL INTERIOR DETAILS, FLOOR PLANS, ELEVATIONS, AND THE STRUCTURAL AND OTHER CONTRACT DRAWINGS AND SHALL COORDINATE WORK WITH THAT OF THE OTHER TRADES TO AVOID INTERFERENCE. THE PLANS ARE DIAGRAMMATIC AND SHOW GENERALLY THE LOCATIONS OF THE FIXTURES, EQUIPMENT, AND PIPES AND ARE NOT TO BE SCALED. ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED IN THE FIELD.
- C REFERENCE DM600 SERIES DRAWINGS FOR ONE LINE DOCUMENTATION OF SYSTEM DEMOLITION REQUIREMENTS.
- D THE ENTIRE 1970'S ADDITION AND ASSOCIATED SERVICES SHALL BE DEMOLISHED. REFER TO NOTES FOR SELECTED AREAS WHERE SYSTEMS IN THE 1970'S BUILDING ARE REQUIRED TO MAINTAIN THE SERVICES OF THE EXISTING BUILDING TO REMAIN. COORDINATE WITH UO FOR EQUIPMENT VALVES, ETC THAT MUST BE RETURNED TO OWNER FOR REUSE.
- E THE ENTIRE 1980'S ADDITION HVAC SERVICES SHALL BE DEMOLISHED EXCEPT WHERE NOTED.
- F EXISTING THERMOSTATS ARE ONLY PARTIALLY SHOWN ON THESE DRAWINGS. CONTROLS CONTRACTOR SHALL LOCATE ALL (E) THERMOSTATS AND SENSORS IN (E) BUILDING TO DETERMINE FINAL SENSOR REPLACEMENT SCOPE OF WORK AS PART OF THE DESIGN BUILD CONTROLS SCOPE. REPLACE ALL SENSORS IN (E) AREAS WITH (N) SENSORS AS PART OF DESIGN.

SHEET NOTES

- 1 ABANDON HEATER IN PLACE AND CAP PIPING.
2 PNEUMATIC SHUT-OFF DAMPERS CONTROL SWITCH IN RM 219.
3 DEMOLISH DAMPER, ACTUATOR & PNEUMATICS
4 LOCATION OF (E) PUMP ASSEMBLY SERVING AHU - 2 CHILLED WATER COIL
5 DEMOLISH PIPING BACK TO MAIN



SERA

ARCHITECTURE
URBAN DESIGN + PLANNING
INTERIOR DESIGN

338 NW 5TH AVENUE
PORTLAND OREGON 97209
P: 503.445.7372
F: 503.445.7365
SERAPDX.COM

GLUMAC

900 SW Fifth Ave., Suite 1600
Portland, OR 97204
T: 503.227.5280 F: 503.274.7674
www.glumac.com
Job No: 02-13-05645
Contact: JOSH CHECKIS
engineers for a sustainable future™

ERB MEMORIAL UNION - RENOVATION & ADDITION
PACKAGE 4
UNIVERSITY OF OREGON
13TH AVENUE & UNIVERSITY STREET

REVISIONS

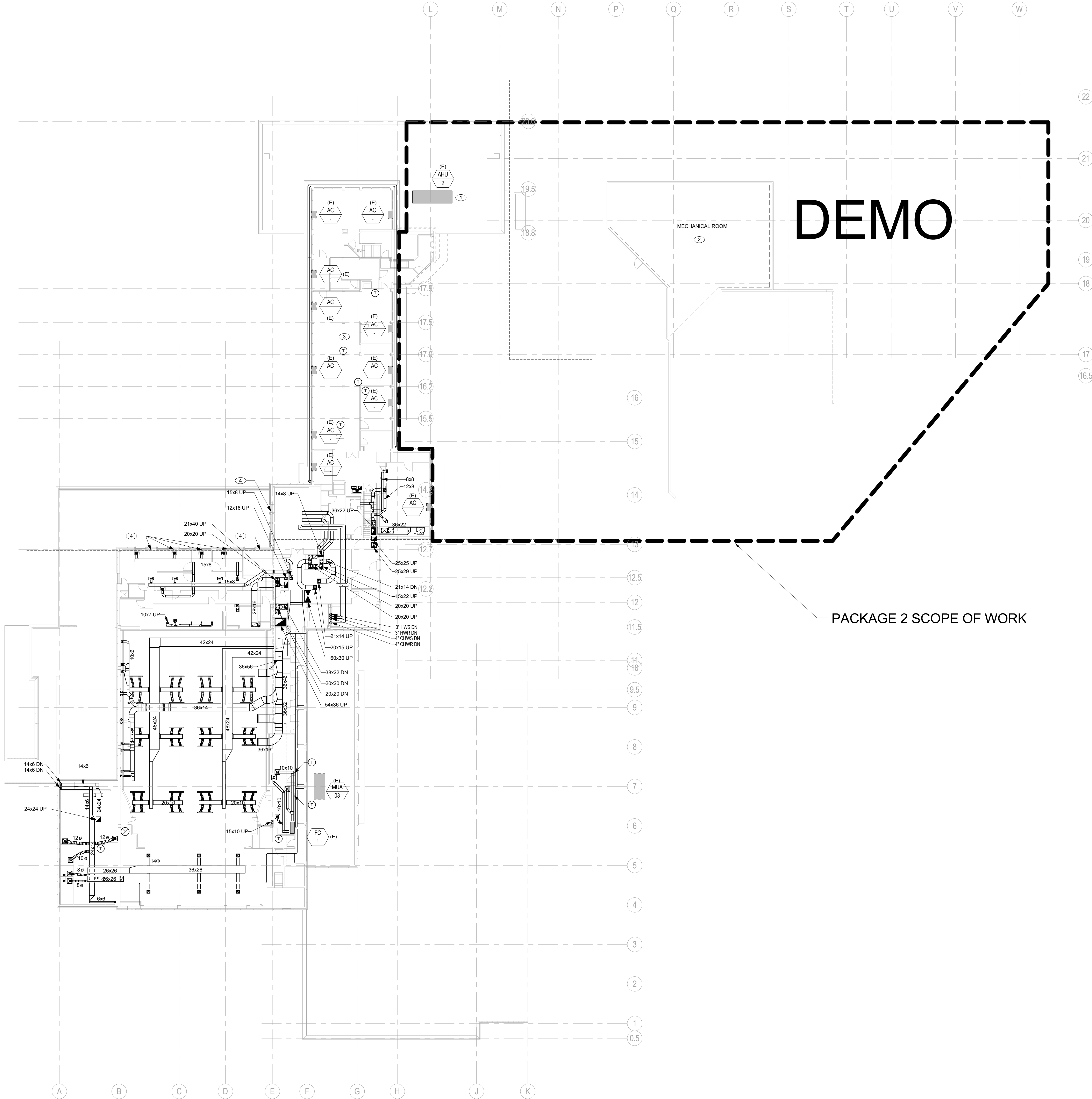
CHECKED BY:
ISSUE DATE: 2014.03.14
PROJECT NO: 11045

DEMO PLAN -
LEVEL 2 FLOOR
PLAN - HVAC

DM102

1 DEMO PLAN - LEVEL 3 PLAN - HVAC

SCALE: 1/16" = 1'-0"

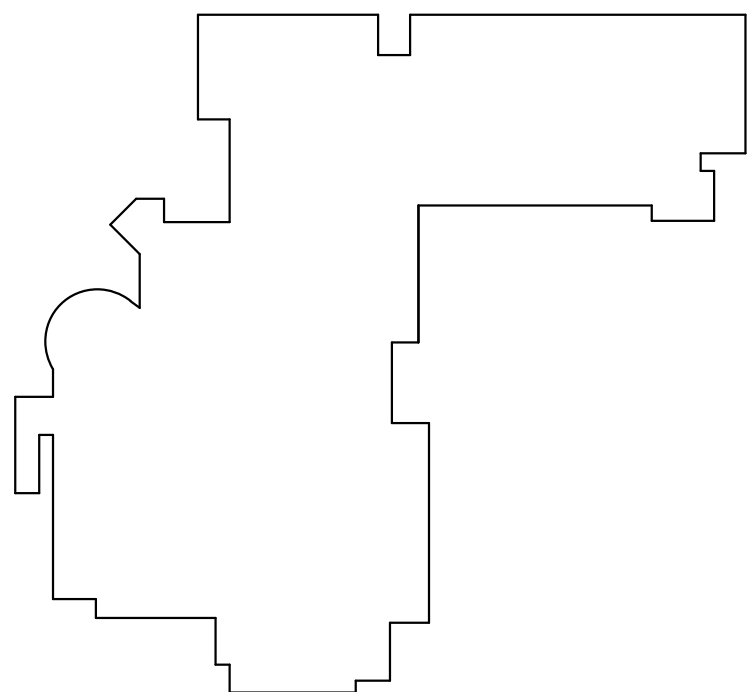


GENERAL NOTES

- A DEMOLITION SCOPE OF EQUIPMENT, DUCTWORK, PIPING, ETC IN EXISTING BUILDING IS SHOWN FOR REFERENCE AND IS DEVELOPED THROUGH REFERENCE OF EXISTING BUILDING AS-BUILT DOCUMENTATION AND SITE WALKS. WHERE PROJECT INVOLVES INTERFACE WITH EXISTING BUILDING AND SITE SYSTEMS, EVERY EFFORT HAS BEEN MADE TO NOTE EXISTING UTILITIES AND SERVICES. HOWEVER, THE CONTRACTOR SHOULD THOROUGHLY FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND BE AWARE THAT IN SOME CASES INFORMATION IS NOT AVAILABLE AS TO CONCEALED CONDITIONS, WHICH EXIST IN PORTIONS OF THE EXISTING BUILDING AFFECTED BY THIS WORK. NOTIFY OWNER, ARCHITECT, AND ENGINEER OF EXISTING CONDITIONS DISCOVERED DURING THE DEMOLITION PHASE.
- B THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL, INTERIOR DETAILS, FLOOR PLANS, ELEVATIONS, AND THE STRUCTURAL AND OTHER CONTRACT DRAWINGS AND SHALL COORDINATE WORK WITH THAT OF THE OTHER TRADES TO AVOID INTERFERENCE. THE PLANS ARE DIAGRAMMATIC AND SHOW GENERALLY THE LOCATIONS OF THE FIXTURES, EQUIPMENT, AND PIPES AND ARE NOT TO BE SCALED. ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED IN THE FIELD.
- C REFERENCE DM600 SERIES DRAWINGS FOR ONE LINE DOCUMENTATION OF SYSTEM DEMOLITION REQUIREMENTS.
- D THE ENTIRE 1970'S ADDITION AND ASSOCIATED SERVICES SHALL BE DEMOLISHED. REFER TO NOTES FOR SELECTED AREAS WHERE SYSTEMS IN THE 1970'S BUILDING ARE REQUIRED TO MAINTAIN THE SERVICES OF THE EXISTING BUILDING TO REMAIN. COORDINATE WITH UO FOR EQUIPMENT VALVES, ETC THAT MUST BE RETURNED TO OWNER FOR REUSE.
- E THE ENTIRE 1980'S ADDITION HVAC SERVICES SHALL BE DEMOLISHED EXCEPT WHERE NOTED.
- F EXISTING THERMOSTATS ARE ONLY PARTIALLY SHOWN ON THESE DRAWINGS. CONTROLS CONTRACTOR SHALL LOCATE ALL (E) THERMOSTATS AND SENSORS IN (E) BUILDING TO DETERMINE FINAL SENSOR REPLACEMENT SCOPE OF WORK AS PART OF THE DESIGN BUILD CONTROLS SCOPE. REPLACE ALL SENSORS IN (E) AREAS WITH (N) SENSORS AS PART OF DESIGN.

SHEET NOTES (#)

- 1 PACKAGE 2 SCOPE: AHU IS SERVED BY CHILLED WATER PIPING FROM THE 1970 ADDITION. DEMOLISH PIPING AS SHOWN ON DM603 AND DM604. ROUTE (N) PIPING TO AHU FROM CHILLED WATER MAIN IN BASEMENT OF 505 BUILDING. REBALANCE PUMP FOR NEW HEAD LOSS CONDITIONS TO MAINTAIN (E) PRE-148 REPORT PERFORMANCE.
- 2 DEMOLISH ALL MECHANICAL EQUIPMENT IN MECH ROOM. BEFORE WORK BEGINS COORDINATE WITH UO FACILITIES WHAT EQUIPMENT SHOULD BE RETURNED TO OWNER FOR REUSE.
- 3 DEMOLISH ALL WINDOW AC UNITS IN THIS AREA. DEMOLISH (E) RADIATORS IN THIS AREA. DEMOLISH VALVES & CAP PIPING BEHIND WALL. SEE 600 SERIES FOR COUNTS.
- 4 DEMOLISH (E) RADIATORS ALONG ENTIRE PERIMETER WALLS. DEMOLISH VALVES & CAP PIPING BEHIND WALL. SEE 600 SERIES FOR COUNTS.



KEY PLAN (NTS)

SERA

ARCHITECTURE
URBAN DESIGN + PLANNING
INTERIOR DESIGN

338 NW 5TH AVENUE
PORTLAND OREGON 97209
P: 503.445.7372
F: 503.445.7365
SERAPDX.COM

GLUMAC

900 SW Fifth Ave., Suite 1600
Portland, OR 97204
T: 503.227.5286 F: 503.274.7674
www.glumac.com
Job No: 02-13-05645
Contact: JOSH CHECKIS
engineers for a sustainable future™

ERB MEMORIAL UNION - RENOVATION & ADDITION
PACKAGE 4
UNIVERSITY OF OREGON
13TH AVENUE & UNIVERSITY STREET

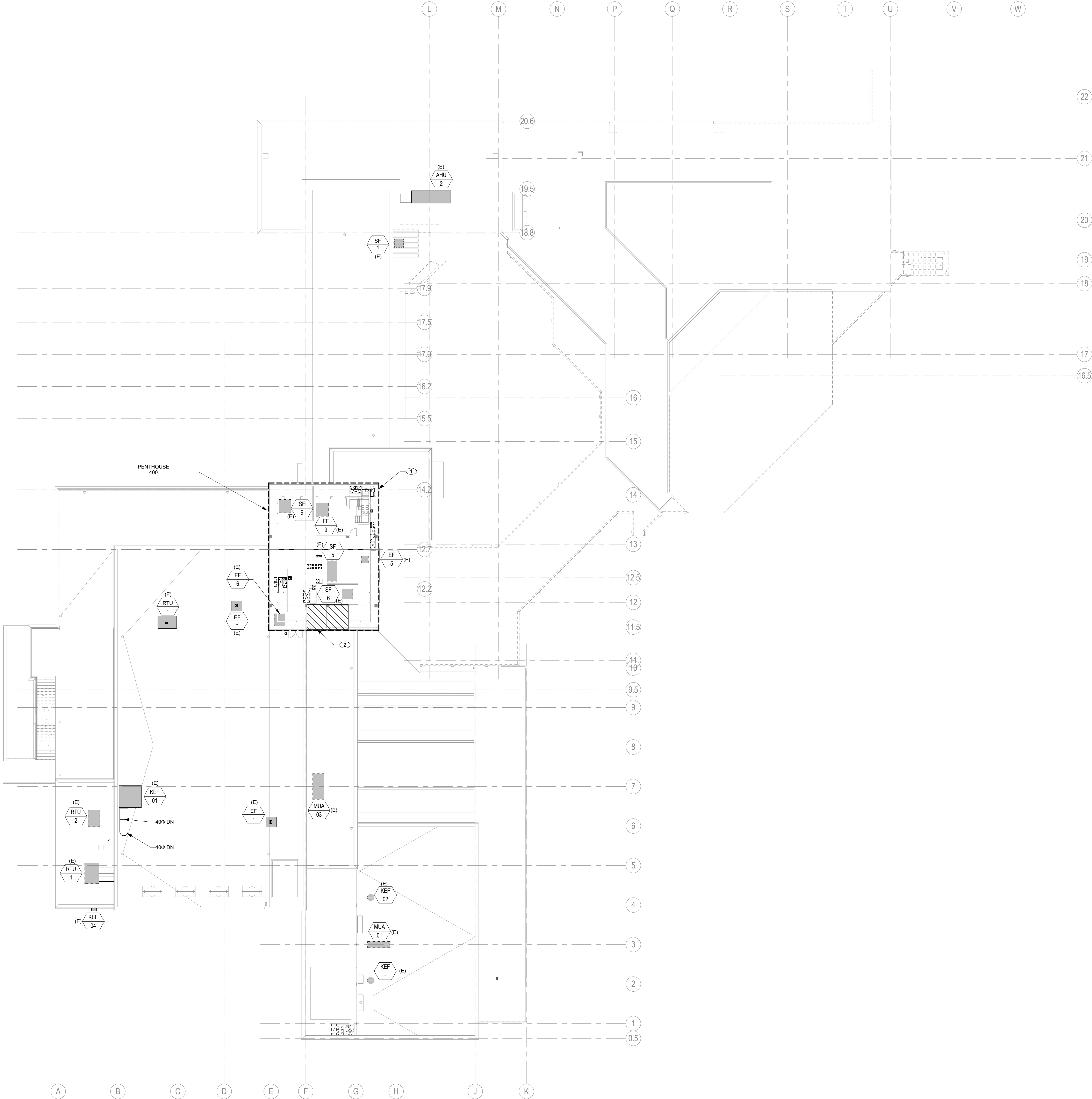
REVISIONS

CHECKED BY:
ISSUE DATE: 2014.03.14
PROJECT NO: 11045

DEMO PLAN -
LEVEL 3 FLOOR
PLAN -HVAC

DM102m

1 DEMO PLAN - ROOF PLAN - HVAC
SCALE: 1/16" = 1'-0"

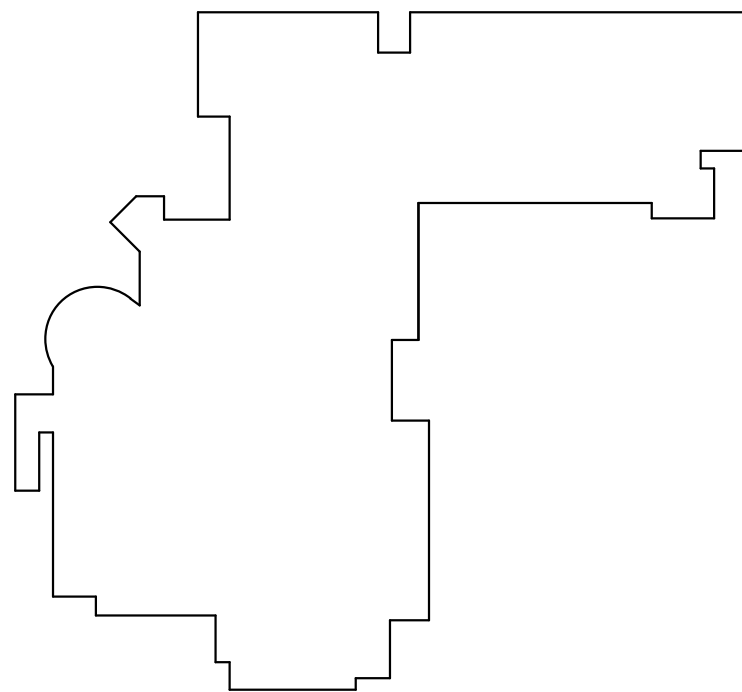


GENERAL NOTES

- A DEMOLITION SCOPE OF EQUIPMENT, DUCTWORK, PIPING, ETC IN EXISTING BUILDING IS SHOWN FOR REFERENCE AND IS DEVELOPED THROUGH REFERENCE OF EXISTING BUILDING AS-BUILT DOCUMENTATION AND SITE WALKS. WHERE PROJECT INVOLVES INTERFACE WITH EXISTING BUILDING AND SITE SYSTEMS, EVERY EFFORT HAS BEEN MADE TO NOTE EXISTING UTILITIES AND SERVICES. HOWEVER, THE CONTRACTOR SHOULD THOROUGHLY FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND BE AWARE THAT IN SOME CASES INFORMATION IS NOT AVAILABLE AS TO CONCEALED CONDITIONS, WHICH EXIST IN PORTIONS OF THE EXISTING BUILDING AFFECTED BY THIS WORK. NOTIFY OWNER, ARCHITECT, AND ENGINEER OF EXISTING CONDITIONS DISCOVERED DURING THE DEMOLITION PHASE.
- B THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL INTERIOR DETAILS, FLOOR PLANS, ELEVATIONS, AND THE STRUCTURAL AND OTHER CONTRACT DRAWINGS AND SHALL COORDINATE WORK WITH THAT OF THE OTHER TRADES TO AVOID INTERFERENCE. THE PLANS ARE DIAGRAMMATIC AND SHOW GENERALLY THE LOCATIONS OF THE FIXTURES, EQUIPMENT, AND PIPES AND ARE NOT TO BE SCALED. ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED IN THE FIELD.
- C REFERENCE DM600 SERIES DRAWINGS FOR ONE LINE DOCUMENTATION OF SYSTEM DEMOLITION REQUIREMENTS.
- D THE ENTIRE 1970'S ADDITION AND ASSOCIATED SERVICES SHALL BE DEMOLISHED. REFER TO NOTES FOR SELECTED AREAS WHERE SYSTEMS IN THE 1970'S BUILDING ARE REQUIRED TO MAINTAIN THE SERVICES OF THE EXISTING BUILDING TO REMAIN. COORDINATE WITH UO FOR EQUIPMENT VALVES, ETC THAT MUST BE RETURNED TO OWNER FOR REUSE.
- E THE ENTIRE 1980'S ADDITION HVAC SERVICES SHALL BE DEMOLISHED EXCEPT WHERE NOTED.
- F EXISTING THERMOSTATS ARE ONLY PARTIALLY SHOWN ON THESE DRAWINGS. CONTROLS CONTRACTOR SHALL LOCATE ALL (E) THERMOSTATS AND SENSORS IN (E) BUILDING TO DETERMINE FINAL SENSOR REPLACEMENT SCOPE OF WORK AS PART OF THE DESIGN BUILD. CONTROLS SCOPE: REPLACE ALL SENSORS IN (E) AREAS WITH (N) SENSORS AS PART OF DESIGN.

SHEET NOTES (#)

- 1 DEMOLISH MECHANICAL UNITS, DUCTWORK, PIPING, ETC IN PENTHOUSE.
- 2 (E) ELEVATOR OVERRUN & EQUIPMENT TO REMAIN.



KEY PLAN (NTS)

SERA

ARCHITECTURE
URBAN DESIGN + PLANNING
INTERIOR DESIGN

338 NW 5TH AVENUE
PORTLAND OREGON 97209
P: 503.445.7372
F: 503.445.7365
SERAPDX.COM

GLUMAC

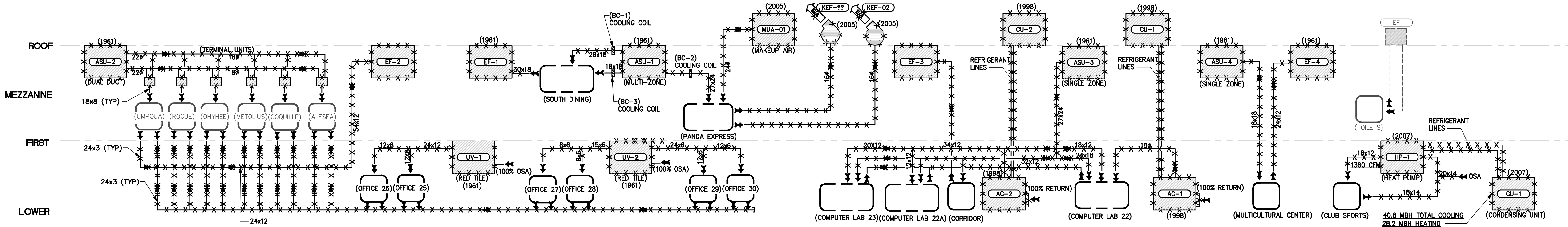
900 SW Fifth Ave., Suite 1600
Portland, OR 97204
T: 503.227.5280 F: 503.274.7874
www.glumac.com
Job No: 02-13-05645
Contact: JOSH CHECKIS
engineers for a sustainable future™

ERB MEMORIAL UNION - RENOVATION & ADDITION
PACKAGE 4
UNIVERSITY OF OREGON
13TH AVENUE & UNIVERSITY STREET

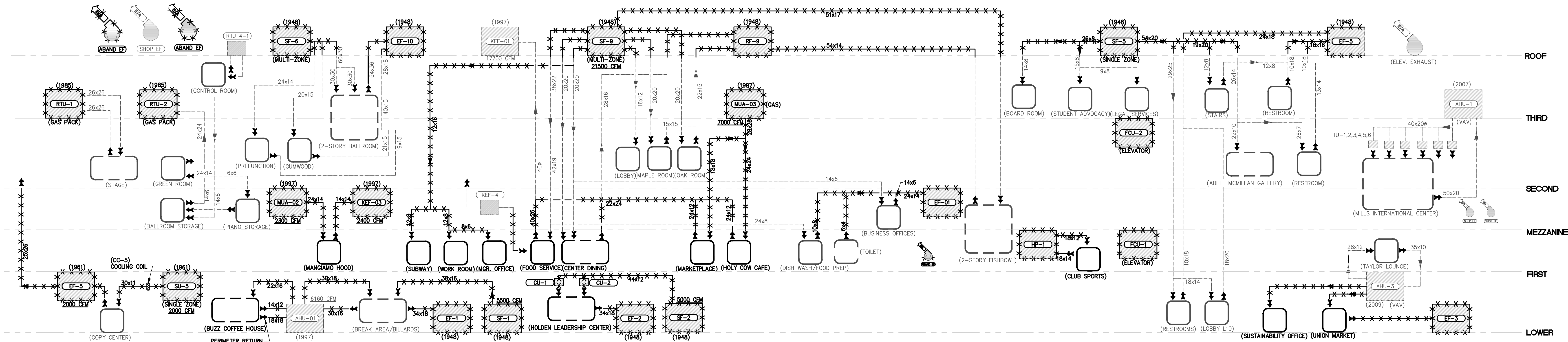
REVISIONS	
CHECKED BY:	2014.03.14
ISSUE DATE:	11045
PROJECT NO.:	

DEMO PLAN -
ROOF PLAN -
HVAC

DM110



1 EXISTING AIRSIDE DEMO SCHEMATIC 1961 ADDITION
SCALE: NONE



2 EXISTING AIRSIDE DEMO SCHEMATIC 1948 BUILDING
SCALE: NONE

GENERAL NOTES

A. UNIT TAGS/PIPE SIZES/DUCT SIZES ARE BASED ON AS-BUILT DRAWINGS AND MAY DIFFER FROM FIELD CONDITIONS.

SERA

ARCHITECTURE
URBAN DESIGN + PLANNING
INTERIOR DESIGN

338 NW 5TH AVENUE
PORTLAND OREGON 97209
P: 503.445.7372
F: 503.445.7395
SERAPDX.COM

PRELIMINARY
NOT FOR CONSTRUCTION

GLUMAC

900 SW Fifth Ave., Suite 1800
Portland, Or 97204
T. 503.227.5280 F. 503.274.7674
www.glumac.com
Job No. 02.13.00545
Contact JOSH CHECKIS
engineers for a sustainable future®

ERB MEMORIAL UNION - RENOVATION & ADDITION PACKAGE 4

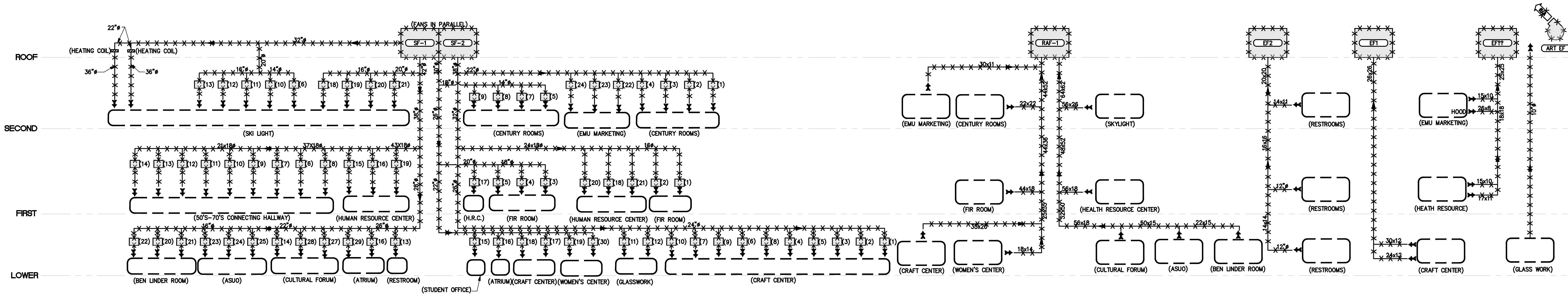
UNIVERSITY OF OREGON
13TH AVENUE & UNIVERSITY STREET

REVISIONS

CHECKED BY:
ISSUE DATE: 2014.3.14
PROJECT NO.: 11045

EXISTING AIRSIDE
SCHEMATIC

DM601



1 EXISTING AIRSIDE DEMO SCHEMATIC 1972 ADDITION
SCALE: NONE

- GENERAL NOTES**
- A. ALL SCOPE ON THIS DRAWING IS PACKAGE 2 SCOPE OF WORK.
 - B. SEE MD100 SERIES FOR LOCATIONS OF MAJOR EQUIPMENT AND MECHANICAL ROOMS.
 - C. UNIT TAGS/PIPE SIZES/DUCT SIZES ARE BASED ON AS-BUILT DRAWINGS AND MAY DIFFER FROM FIELD CONDITIONS.
 - D. 1972 ADDITION TO BE FULLY DEMOLISHED.

SERA

ARCHITECTURE
URBAN DESIGN + PLANNING
INTERIOR DESIGN

338 NW 5TH AVENUE
PORTLAND OREGON 97209
P: 503.445.7372
F: 503.445.7395
SERAPDX.COM

PRELIMINARY
NOT FOR CONSTRUCTION

GLUMAC

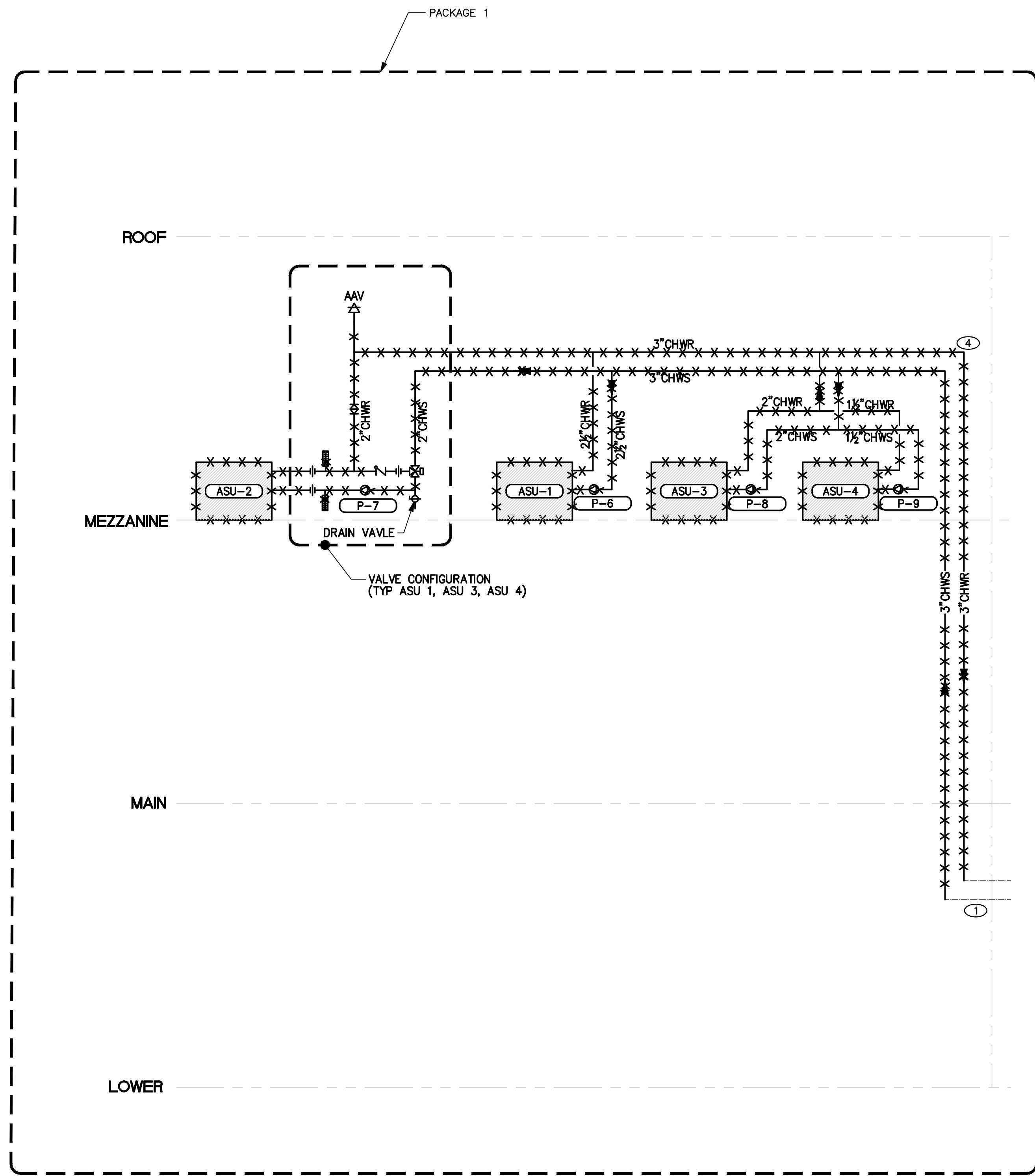
900 SW Fifth Ave., Suite 1800
Portland, Or 97204
www.glumac.com
T. 503.227.5280 F. 503.274.7674
Job No. 02.13.00545
Contact: JOSH CHECKIS
engineers for a sustainable future®

ERB MEMORIAL UNION - RENOVATION & ADDITION
PACKAGE 4
UNIVERSITY OF OREGON
13TH AVENUE & UNIVERSITY STREET

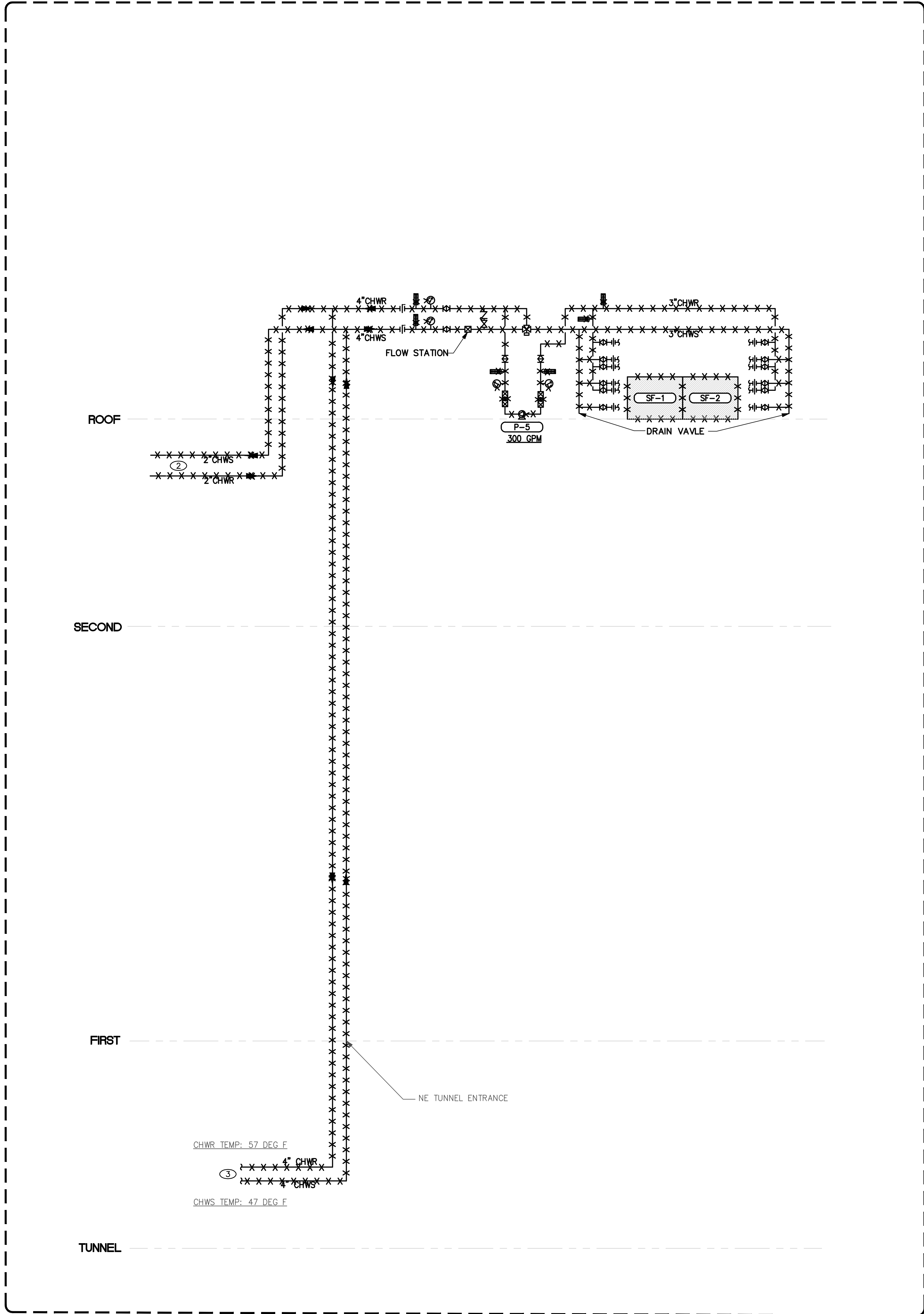
REVISIONS

CHECKED BY:	
ISSUE DATE:	2014.3.14
PROJECT NO.:	11045

EXISTING AIRSIDE
SCHEMATIC
DM602



1 EXISTING CHILLED WATER SCHEMATIC 1961 ADDITION
SCALE: NONE



2 EXISTING CHILLED WATER SCHEMATIC 1970'S ADDITION
SCALE: NONE

GENERAL NOTES

- A. SEE M1000 SERIES FOR LOCATIONS OF MAJOR EQUIPMENT AND MECHANICAL ROOMS.
- B. UNIT TAGS/PIPE SIZES/DUCT SIZES ARE BASED ON AS-BUILT DRAWINGS AND MAY DIFFER FROM FIELD CONDITIONS.

SHEET NOTES

1. PIPING ROUTES BACK SOUTHWEST MECHANICAL ROOM IN 1950'S BUILDING (GROUND FLOOR)
2. TO AHU-2 SERVING MILLS INTERNATIONAL CENTER.
3. THE STRETCH OF TUNNEL SERVING THE 70'S BUILDING IS TO BE PARTIALLY DEMOLISHED BACK TO POINT OF CONNECTION SHOWN ON FLOOR PLAN. ALL MECHANICAL SERVICES DEMOLISHED. (CHWS/R, LPS, LPC). SEE M1000 SERIES FOR TUNNEL LOCATION
4. SEE PACKAGE 1 FOR FINAL DEMO SCOPE AND POINT OF CONNECTION TO CRAFT CENTER EQUIPMENT



ARCHITECTURE
URBAN DESIGN + PLANNING
INTERIOR DESIGN

338 NW 5TH AVENUE
PORTLAND OREGON 97209
P: 503.445.7372
F: 503.445.7395
SERAPDX.COM

PRELIMINARY
NOT FOR CONSTRUCTION

GLUMAC

900 SW Fifth Ave., Suite 1800
Portland, Or 97204
www.glumac.com
Job No. 02.13.00545
Contact: JOSH CHECKIS

engineers for a sustainable future®

ERB MEMORIAL UNION - RENOVATION & ADDITION
PACKAGE 4

UNIVERSITY OF OREGON
13TH AVENUE & UNIVERSITY STREET

REVISIONS

CHECKED BY:
ISSUE DATE: 2014.3.14
PROJECT NO.: 11045

EXISTING CHILLED
WATER
SCHEMATIC
DM603

GENERAL NOTES

- A. SEE MD100 SERIES FOR LOCATIONS OF MAJOR EQUIPMENT AND MECHANICAL ROOMS.
- B. UNIT TAGS/PIPE SIZES/DUCT SIZES ARE BASED ON AS-BUILT DRAWINGS AND MAY DIFFER FROM FIELD CONDITIONS.

SHEET NOTES

1. PACKAGE 2 SCOPE OF WORK: DEMOLISH PIPING BACK TO 70'S BUILDING IN FULL.
2. PIPING FROM 60'S BUILDING
3. DEMOLISH CHILLED WATER LINES TO MECHANICAL ROOM FLOOR AND CAP.
4. PACKAGE 2 SCOPE OF WORK: DEMOLISH (E) 1/4" CHWS/R PIPING FROM MECH ROOM ON 2ND FLOOR TO CONNECTION TO 2" MAIN IN BASEMENT. REROUTE (N) 1/2" CHWS/R BACK TO AHU-2 PUMP ASSEMBLY IN SAME SHAFT. REBLANCE (E) PUMP FOR NEW HEAD LOSS CONDITIONS. REFERENCE PRE-TAB REPORT FOR FINAL REBLANCE SETPOINTS.

1 EXISTING CHILLED WATER SCHEMATIC 1948 BUILDING

SCALE: NONE

EXISTING CHILLED WATER SCHEMATIC

DM604

CHECKED BY: 2014.3.14
ISSUE DATE: 11045
PROJECT NO:

50% CONSTRUCTION DOCUMENTS

UNIVERSITY OF OREGON
13TH AVENUE & UNIVERSITY STREET

ERB MEMORIAL UNION - RENOVATION & ADDITION
PACKAGE 4

ERB MEMORIAL UNION - RENOVATION & ADDITION

PRELIMINARY
NOT FOR CONSTRUCTION

GLUMAC

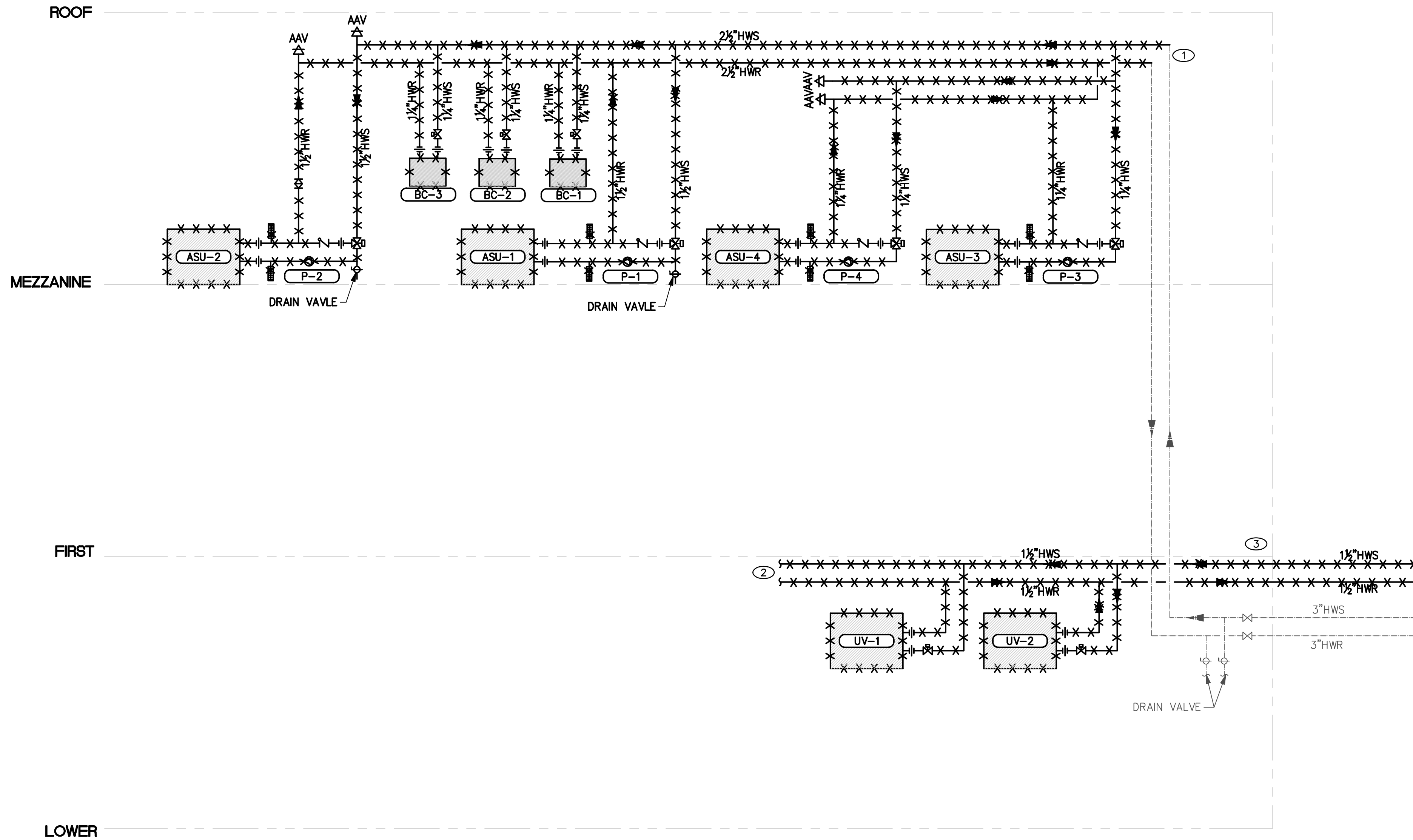
900 SW Fifth Ave., Suite 1800
Portland, Or 97204
T. 503.227.5280 F. 503.274.7674
www.glumac.com
Job No. 02.13.00545
Contact: **PODOLSKI** **DESIGN/TEAM**

engineers for a sustainable future®

ARCHITECTURE
URBAN DESIGN + PLANNING
INTERIOR DESIGN

338 NW 5TH AVENUE
PORTLAND OREGON 97209
P: 503.445.7372
F: 503.445.7395
SERAPDX.COM

SERA



1 EXISTING HEATING WATER DEMO SCHEMATIC 1961 ADDITION
SCALE: NONE

GENERAL NOTES

- A. SCOPE ON THIS SHEET IS PACKAGE 1. SHEET FOR REFERENCE ONLY. SEE PACKAGE 1 FOR FURTHER DETAILS.
- B. SEE MD100 SERIES FOR LOCATIONS OF MAJOR EQUIPMENT AND MECHANICAL ROOMS.
- C. UNIT TAGS/PIPE SIZES/DUCT SIZES ARE BASED ON AS-BUILT DRAWINGS AND MAY DIFFER FROM FIELD CONDITIONS.

SHEET NOTES

1. SEE PACKAGE 1 FOR FINAL DEMO SCOPE AND POINT OF CONNECTION TO CRAFT CENTER EQUIPMENT
2. TO 60'S PERIMETER RADIATORS AND STAIR HEATERS
3. DEMO BACK TO MECH ROOM TAP TO MAIN AND CAP.



ARCHITECTURE
URBAN DESIGN + PLANNING
INTERIOR DESIGN

338 NW 5TH AVENUE
PORTLAND OREGON 97209
P: 503.445.7372
F: 503.445.7395
SERAPDX.COM

PRELIMINARY
NOT FOR CONSTRUCTION

GLUMAC

900 SW Fifth Ave., Suite 1800
Portland, Or 97204
T: 503.227.5280 F: 503.274.7674
www.glumac.com
Job No. 02.13.00545
Contact: JOSH CHECKIS
engineers for a sustainable future

ERB MEMORIAL UNION - RENOVATION & ADDITION
PACKAGE 4

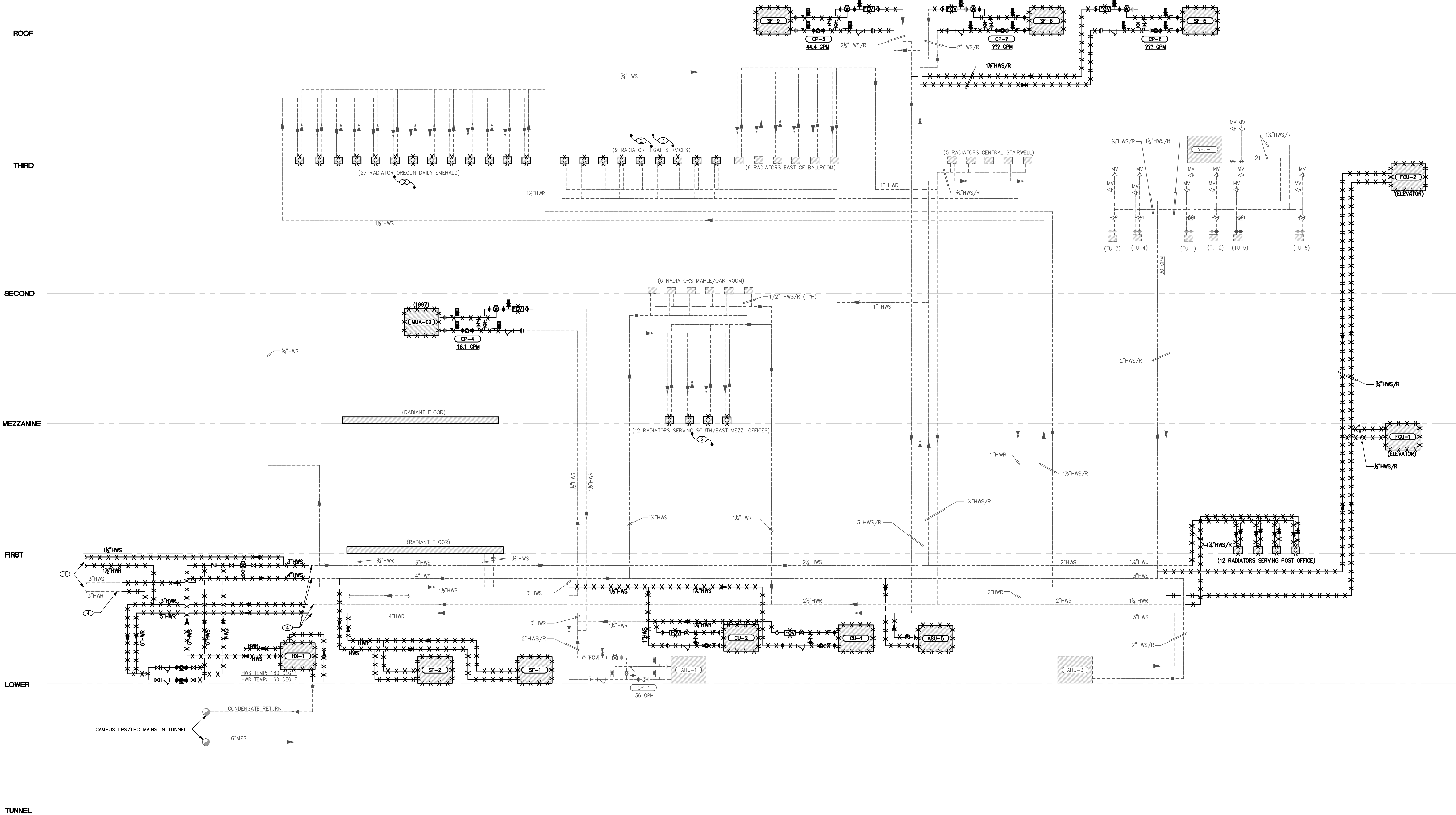
UNIVERSITY OF OREGON
13TH AVENUE & UNIVERSITY STREET

REVISIONS

CHECKED BY:
ISSUE DATE: 2014.3.14
PROJECT NO.: 11045

EXISTING HEATING
WATER
SCHEMATIC

DM605



1 EXISTING HEATING WATER DEMO SCHEMATIC 1948 BUILDING
SCALE: NONE

GENERAL NOTES

- A. SEE MD100 SERIES FOR LOCATIONS OF MAJOR EQUIPMENT AND MECHANICAL ROOMS.
- B. UNIT TAGS/PIPE SIZES/DUCT SIZES ARE BASED ON AS-BUILT DRAWINGS AND MAY DIFFER FROM FIELD CONDITIONS.

SHEET NOTES

1. PIPING TO 1961 ADDITION
2. DEMOLISH (E) RADIATORS. DEMOLISH PIPING BACK THROUGH WALL AND CAP. WALL TO BE REPAIRED.
3. PROVIDE (N) RADIATORS & VALVES ASSEMBLIES.
4. DEMO PIPING TO MECHANICAL ROOM WALLS

SERA

ARCHITECTURE
URBAN DESIGN + PLANNING
INTERIOR DESIGN

338 NW 5TH AVENUE
PORTLAND OREGON 97209
P: 503.445.7372
F: 503.445.7395
SERAPDX.COM

PRELIMINARY
NOT FOR CONSTRUCTION

GLUMAC

900 SW Fifth Ave., Suite 1600
Portland, Or 97204
T. 503.227.5280 F. 503.274.7674
www.glumac.com
Job No. 02.13.00545
Contact: JOSH CHECKIS
engineers for a sustainable future®

**ERB MEMORIAL UNION - RENOVATION & ADDITION
PACKAGE 4**

UNIVERSITY OF OREGON
13TH AVENUE & UNIVERSITY STREET

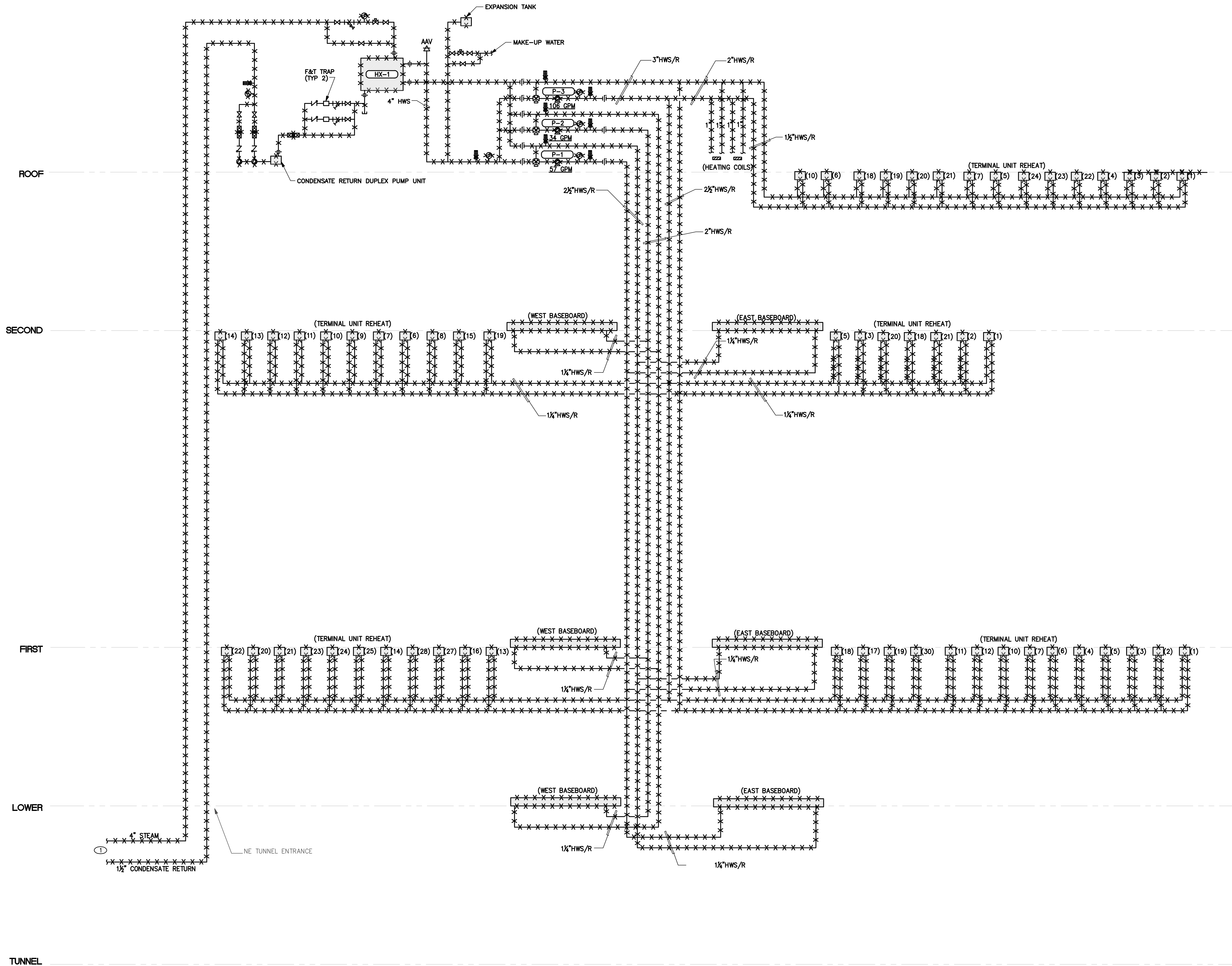
REVISIONS

CHECKED BY:
ISSUE DATE: 2014.3.14
PROJECT NO.: 11045

EXISTING HEATING
WATER
SCHEMATIC
DM606

These drawings and their content are the property of SERA Architects, Inc. and are to be utilized on this project. Reproduction of any part of this material, without the express written permission of SERA Architects, Inc. is prohibited.

SERA ARCHITECTS COPYRIGHT 2012



1 EXISTING HEATING WATER DEMO SCHEMATIC 1972 ADDITION
SCALE: NONE

GENERAL NOTES

- ALL SCOPE ON THIS DRAWING IS PACKAGE 2 SCOPE OF WORK.
- SEE MD100 SERIES FOR LOCATIONS OF MAJOR EQUIPMENT AND MECHANICAL ROOMS.
- UNIT TAGS/PIPE SIZES/DUCT SIZES ARE BASED ON AS-BUILT DRAWINGS AND MAY DIFFER FROM FIELD CONDITIONS.
- 1972 ADDITION TO BE FULLY DEMOLISHED

SHEET NOTES

- THE STRETCH OF TUNNEL SERVING THE 1972 ADDITION IS TO BE DEMOLISHED BACK TO THE MAIN TUNNEL. ALL MECHANICAL SERVICES DEMOLISHED BACK TO TUNNEL MAIN. (CHWS/R, LPS, LPC). SEE M100 SERIES FOR TUNNEL LOCATION

SERA

ARCHITECTURE
URBAN DESIGN + PLANNING
INTERIOR DESIGN

338 NW 5TH AVENUE
PORTLAND OREGON 97209
P: 503.445.7372
F: 503.445.7395
SERAPDX.COM

PRELIMINARY
NOT FOR CONSTRUCTION

GLUMAC

900 SW Fifth Ave., Suite 1800
Portland, Or 97204
www.glumac.com
T. 503.227.5280 F. 503.274.7674
Job No. 02.13.00545
Contact: JOSH CHECKIS

engineers for a sustainable future®

ERB MEMORIAL UNION - RENOVATION & ADDITION

PACKAGE 4

UNIVERSITY OF OREGON
13TH AVENUE & UNIVERSITY STREET

REVISIONS

CHECKED BY:
ISSUE DATE: 2014.3.14
PROJECT NO.: 11045

EXISTING HEATING
WATER
SCHEMATIC

DM607

50% CONSTRUCTION DOCUMENTS