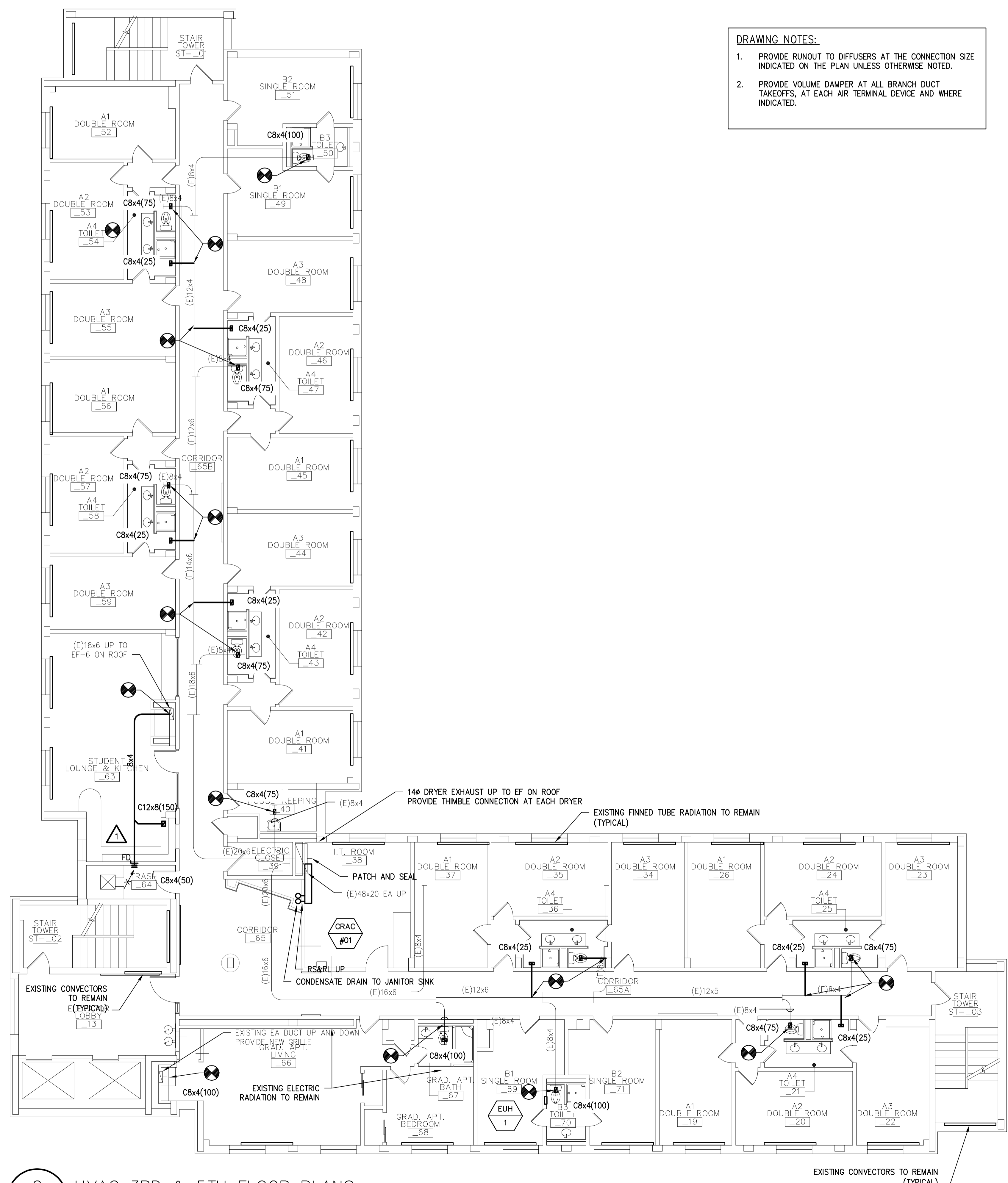
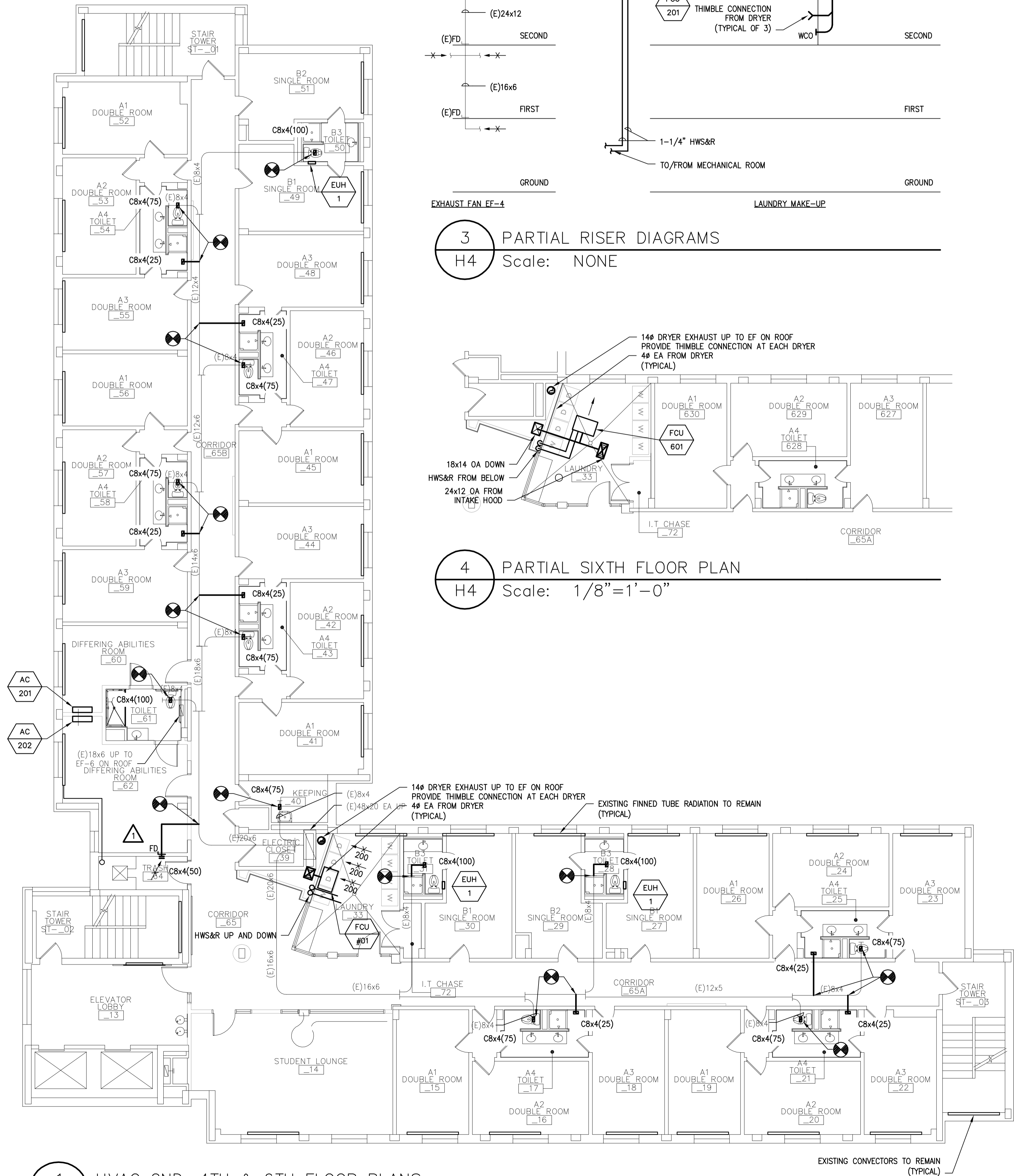


**2** PARTIAL GROUND FLOOR PLAN – NEW WORK  
**H3** Scale: 1/8" = 1'-0"

- DRAWING NOTES:**
1. PROVIDE RUNOUT TO DIFFUSERS AT THE CONNECTION SIZE INDICATED ON THE PLAN UNLESS OTHERWISE NOTED.
  2. PROVIDE VOLUME DAMPER AT ALL BRANCH DUCT TAKEOFFS, AT EACH AIR TERMINAL DEVICE AND WHERE INDICATED.
  3. ALTERNATE #3 INCLUDES ALL DEMOLITION AND CONSTRUCTION AT ROOMS 106 & 107. BASE BID IS TO CONNECT NEW GRID'S IN ROOMS 102-105, 108-111 TO EXISTING DUCTWORK, EXTENDING DUCTWORK AS REQUIRED.
- RCP-1 TO BE AIRTEX LINEAR PANEL, MODEL HEF-2, 24x48, 170T AWT, 2 GPM, PROVIDE SHUT-OFF VALVES, BALANCE VALVE AND CONTROL VALVE AND 1/2" INTERCONNECTING PIPING.

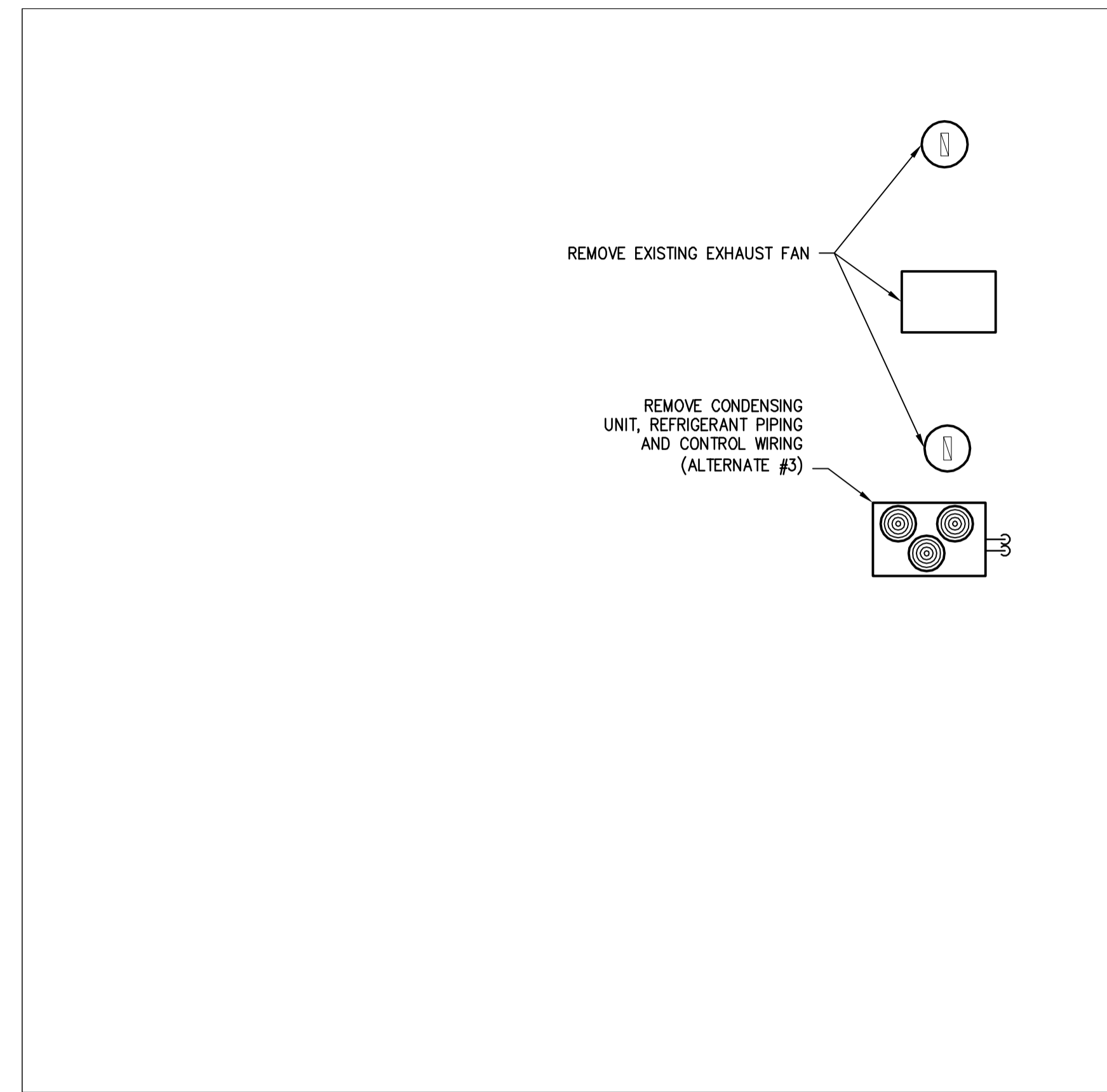
**1** FIRST FLOOR PLAN – NEW WORK  
**H3** Scale: 1/8" = 1'-0"

HAZMAT CONTRACTOR SHALL REMOVE 95 ASBESTOS CONTAINING FITTINGS/JOINT INSULATION AND ASSOCIATED PIPING. CONTRACTOR SHALL PROVIDE NEW PIPE SECTIONS AND INSULATION TO ACCOMMODATE PIPING DEMOLISHED BY HAZMAT CONTRACTOR. UP TO 95 FITTINGS AND 4- FEET OF PIPE AT EACH FITTING.

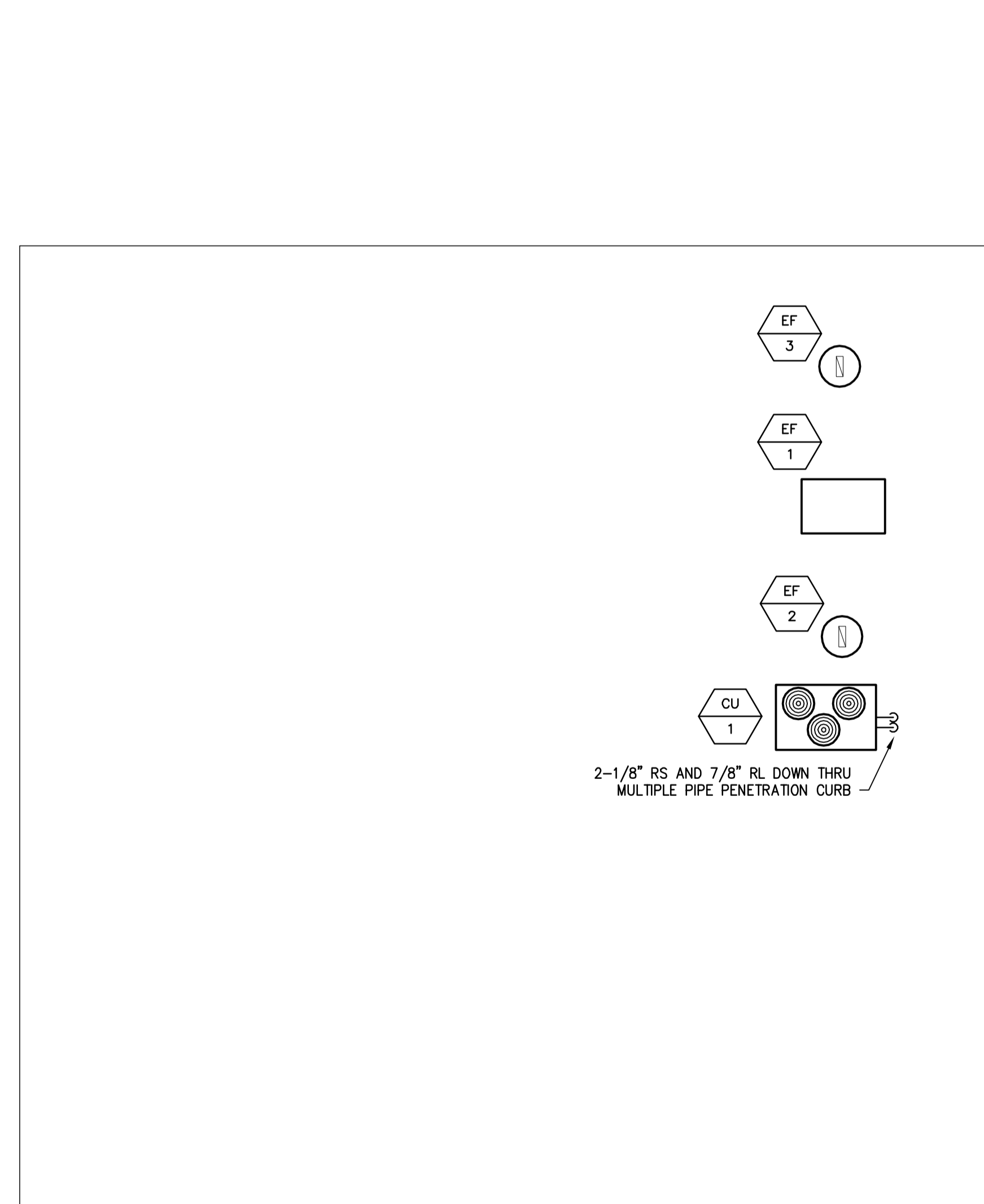


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Drawn By:	RGV
Checked By:	RGV
Scale:	NONE
Job No.:	Y0105

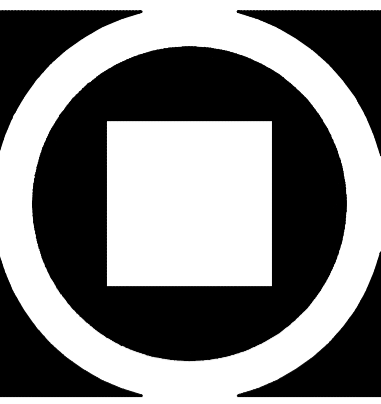
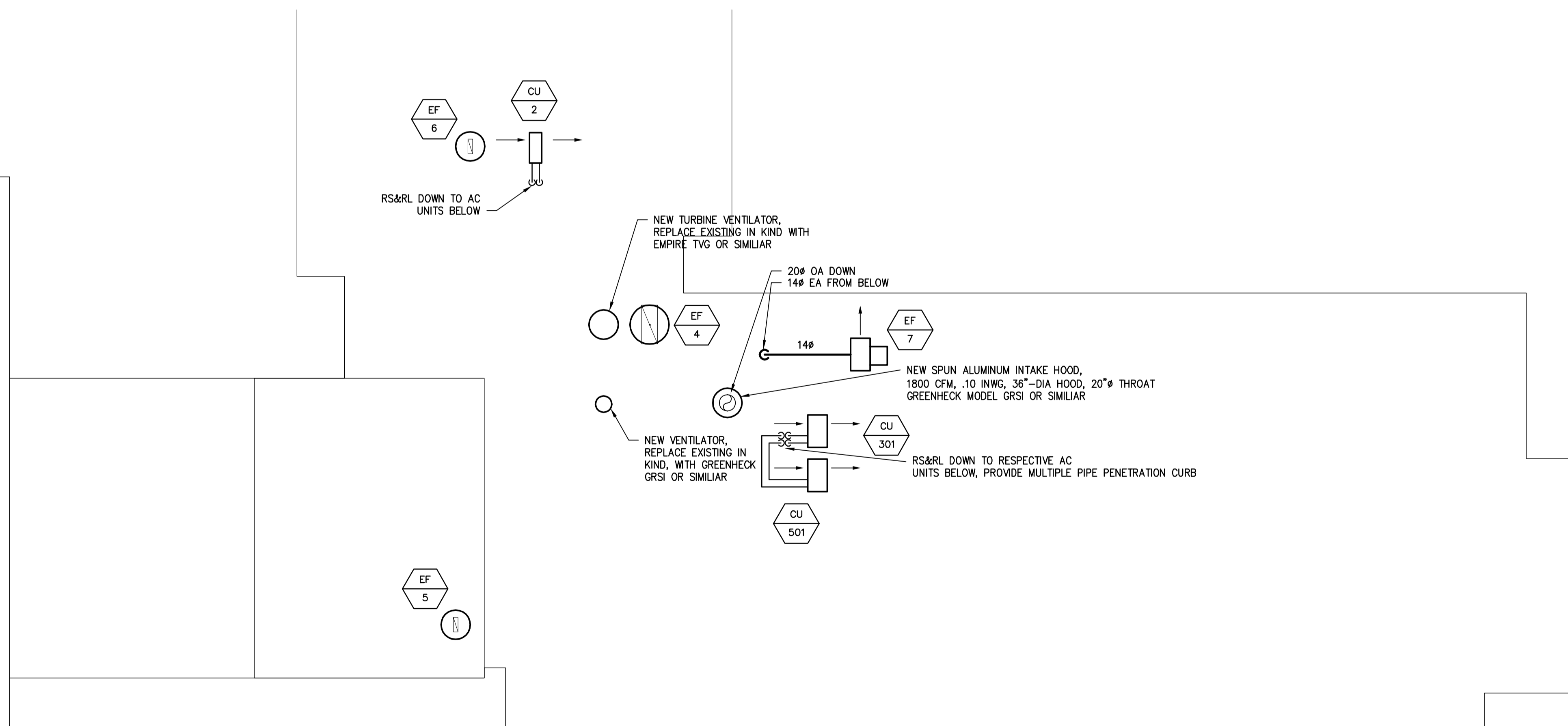
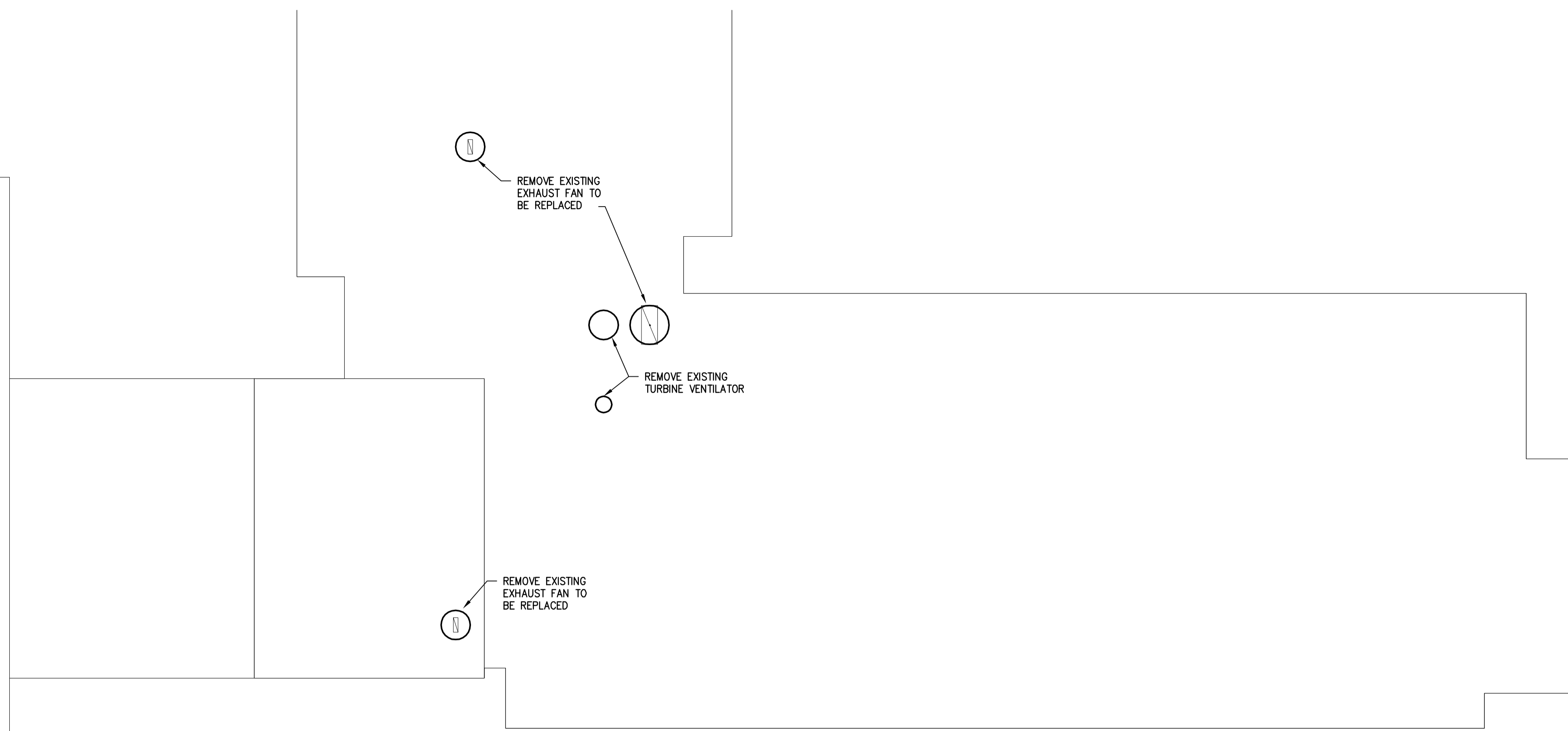
Sheet Name:	HVAC 2ND, 4TH & 6TH 3RD AND 5TH FLOOR PLANS
Revisions:	12-09-11 02-06-12
Progress Prints:	DCA
DCA Re-submission:	02-06-12



1 HVAC ROOF PLAN DEMOLITION  
 H5 Scale: 1/8" = 1'-0"



2 HVAC ROOF PLAN NEW WORK  
 H5 Scale: 1/8" = 1'-0"



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 Engineers, LLP  
 1152 Locust St.  
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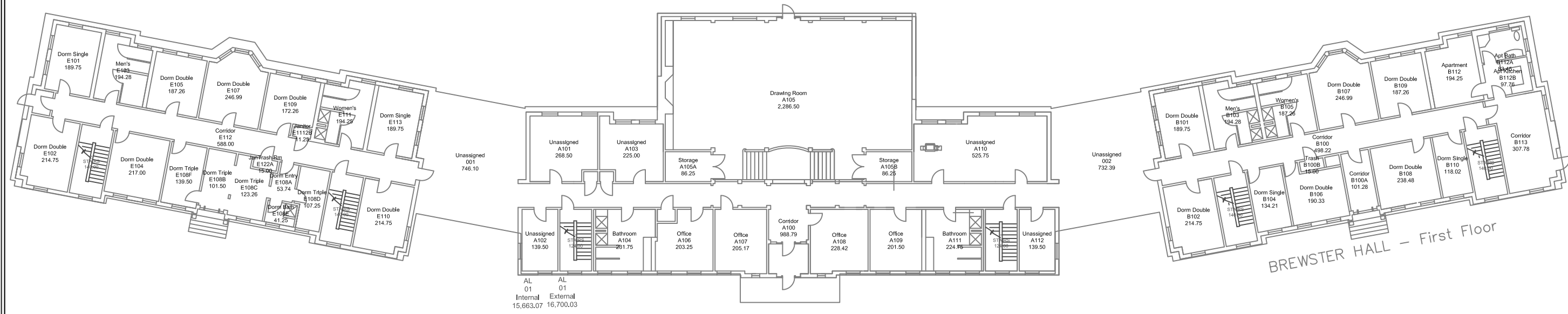
Jeffrey M. Polo, Professional Engineer  
 State of New Jersey # 240E04300400

**CROMWELL RENOVATION**  
 THE COLLEGE OF NEW JERSEY

Bid Issue Date:	02.10.2012
Drawn By:	RGV
Checked By:	RGV
Scale:	NONE
Job No.:	Y01 05

Sheet Name:	HVAC
Progress Prints:	DCA
Revisions:	12.09-11

**H5**



BREWSTER HALL - First Floor

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 AL 01 External 16,700.03

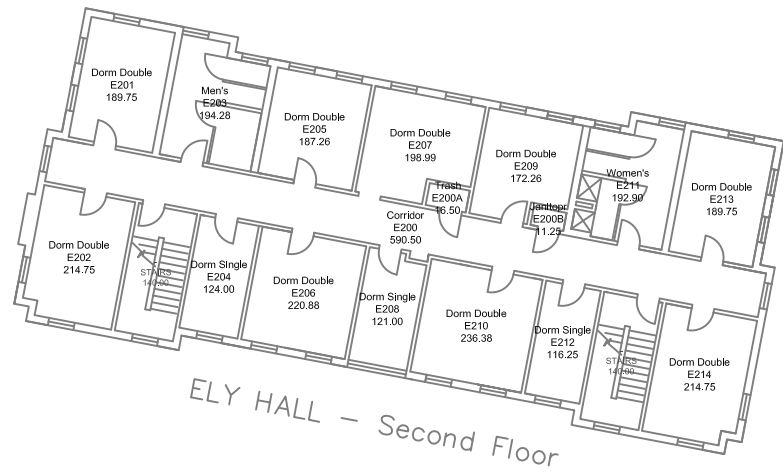
# Room by Category

Campus Planning

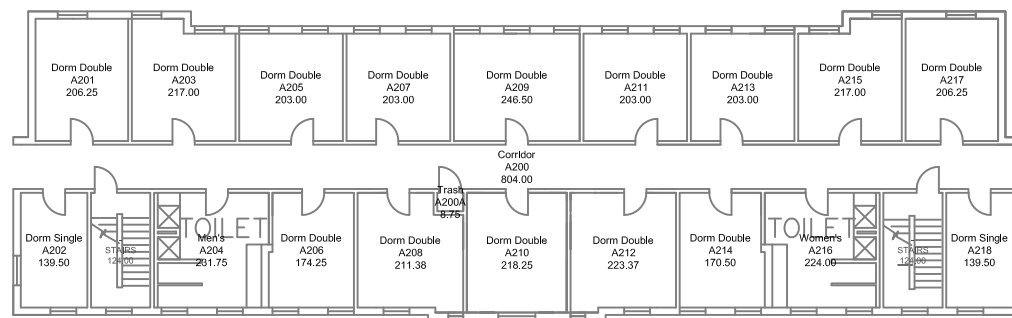
Revised	March 5, 2020
Scale	Not to Scale
Drawn	XX
Approved	XX
Dwg. No.	XXX



# ELY-ALLEN-BREWSEY FIRST FLOOR

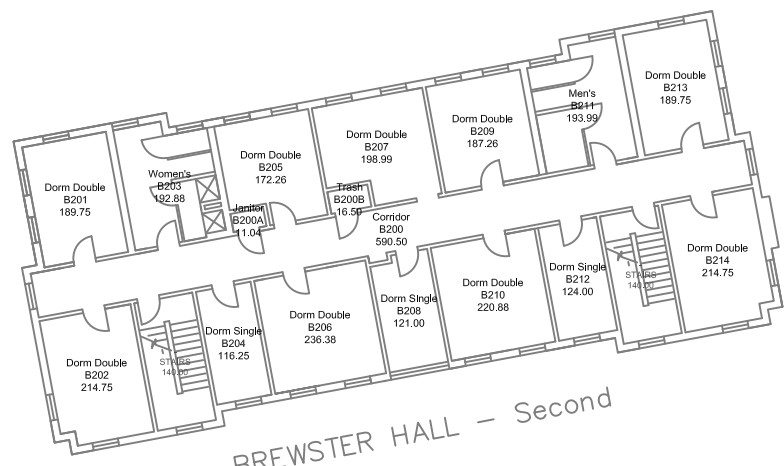


ELY HALL - Second Floor



AL AL  
 02 02  
 Internal External  
 12,432.72 13,377.42

ALLEN HALL - Second Floor



BREWSTER HALL - Second Floor

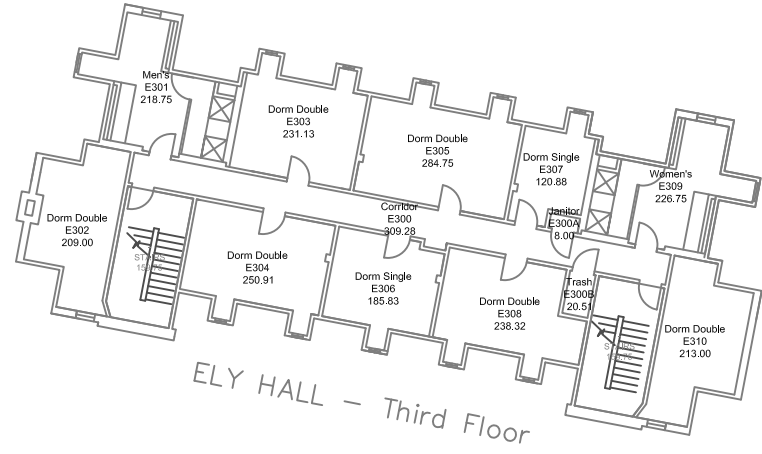
Revised	March 5, 2020
Scale	Not to Scale
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Approved	XX
Dwg. No.	XXX

Room by Department

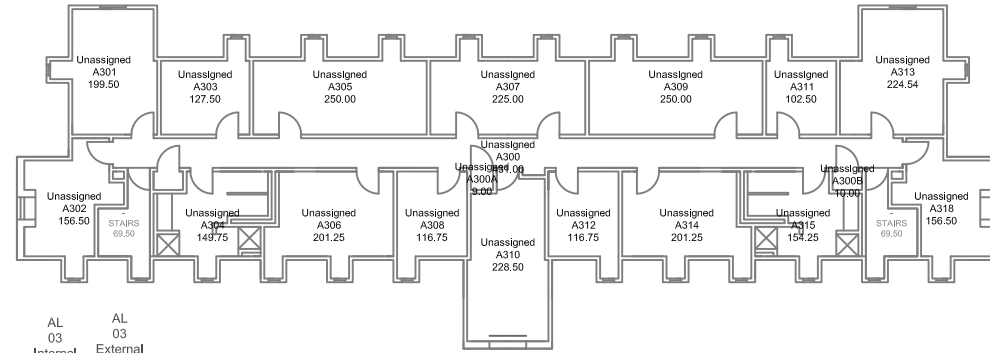
Campus Planning



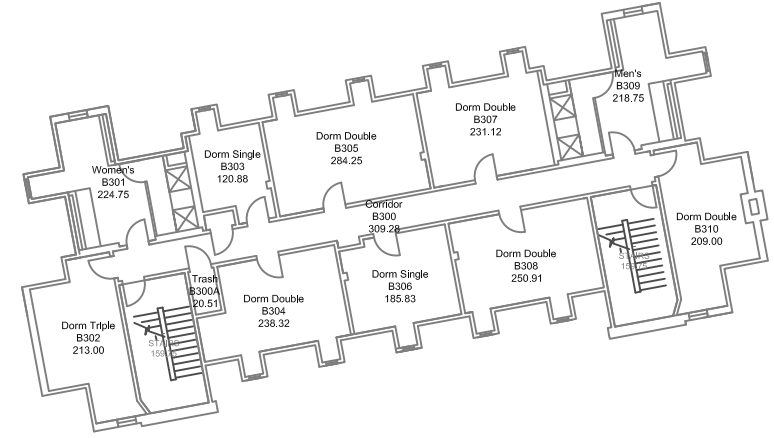
BUILDING  
 FIRST FLOOR

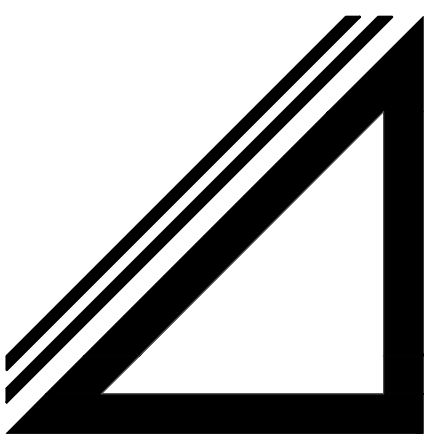


ELY HALL - Third Floor



AL 03 Internal 9,761.50  
 AL 03 External 10,628.68





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STATE PLAN # PLAN# DRG NO.  
**1315**

CONFORMANCE SET  
**7/8/14**

**KELTER & GILLIGO**  
consulting engineers

P.O. BOX 777 14 WASHINGTON RD.  
PRINCETON JUNCTION NEW JERSEY 08550

S. Louis Ketter, P.E. Frank Tindal, P.E.  
Professional Engineer Professional Engineer  
NJ 21265 NJ 38656

NO.	DATE	DESCRIPTION
3	5/11/15	BASEMENT LOUNGE REV.
2	7/8/14	FOR CONSTRUCTION
1	5/28/14	ADDENDUM NO.1

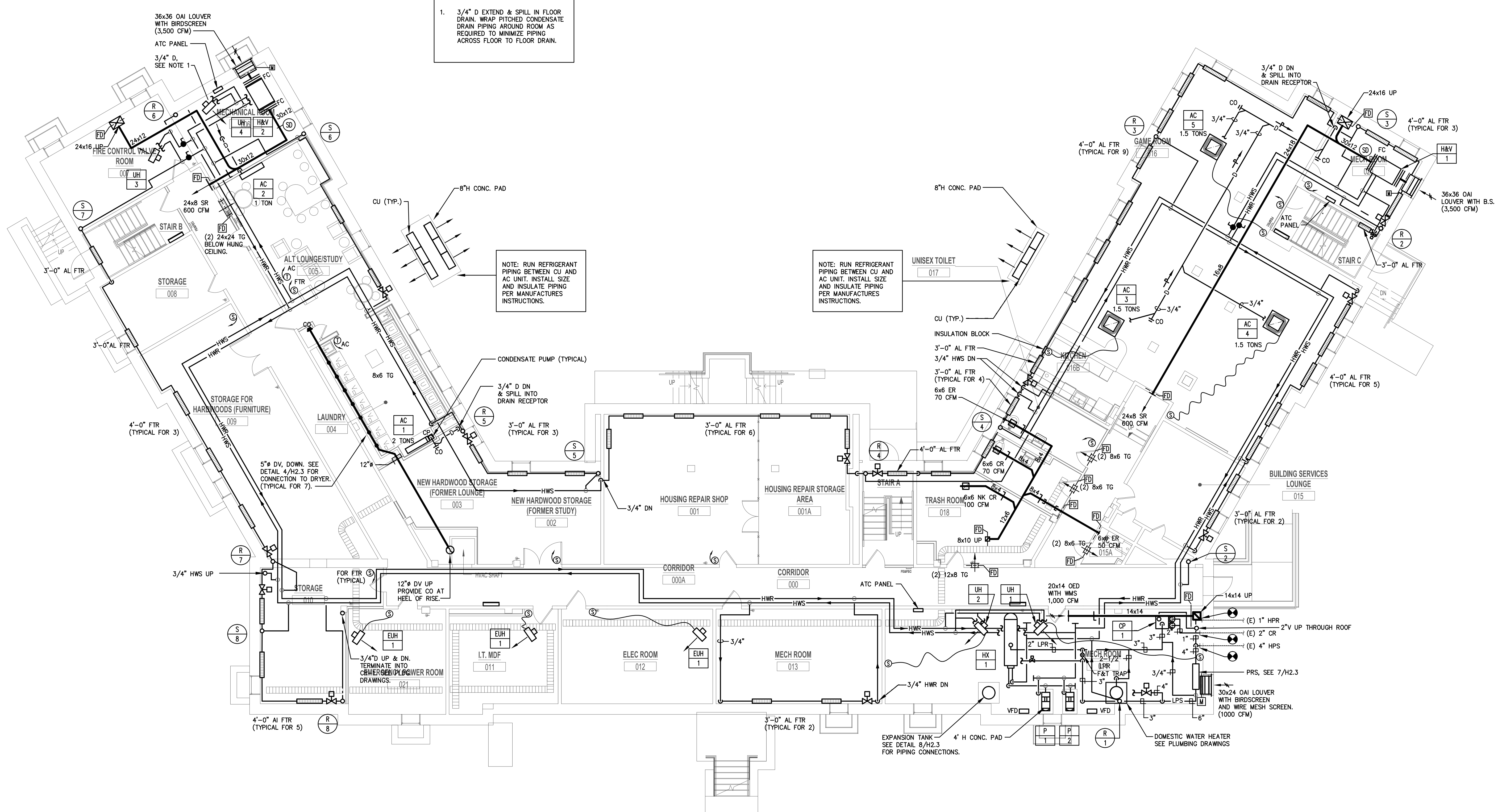
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SHEET TITLE	DRAWN
BASEMENT NEW WORK PLAN - HVAC	BR
SCALE: AS NOTED	CHECKED
DATE: 3/28/14	RS

SHEET NO.  
**H1.1**

- GENERAL NOTES:**
- THE GENERAL NOTES APPLY TO ALL DRAWINGS UNDER THE CONTRACT. REFER TO INDIVIDUAL DRAWINGS FOR ADDITIONAL NOTES.
  - CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING AND PATCHING MEANS, METHODS, LOCATIONS, STRUCTURAL SUPPORT, STRUCTURAL CALCULATIONS, AND COORDINATION WITH OTHER TRADES REGARDING ANY HVAC, PLUMBING, ELECTRICAL, FIRE PROTECTION AND TECHNOLOGY INFRASTRUCTURE PENETRATIONS INCLUDING BUT NOT LIMITED TO PENETRATIONS THROUGH WALLS, SLABS, CONCRETE BEAMS, ROOF STRUCTURE AND SUBSTRATE, FOUNDATIONS AND FOOTINGS. SEE SPECIFICATION SECTION 07210 "CUTTING AND PATCHING".

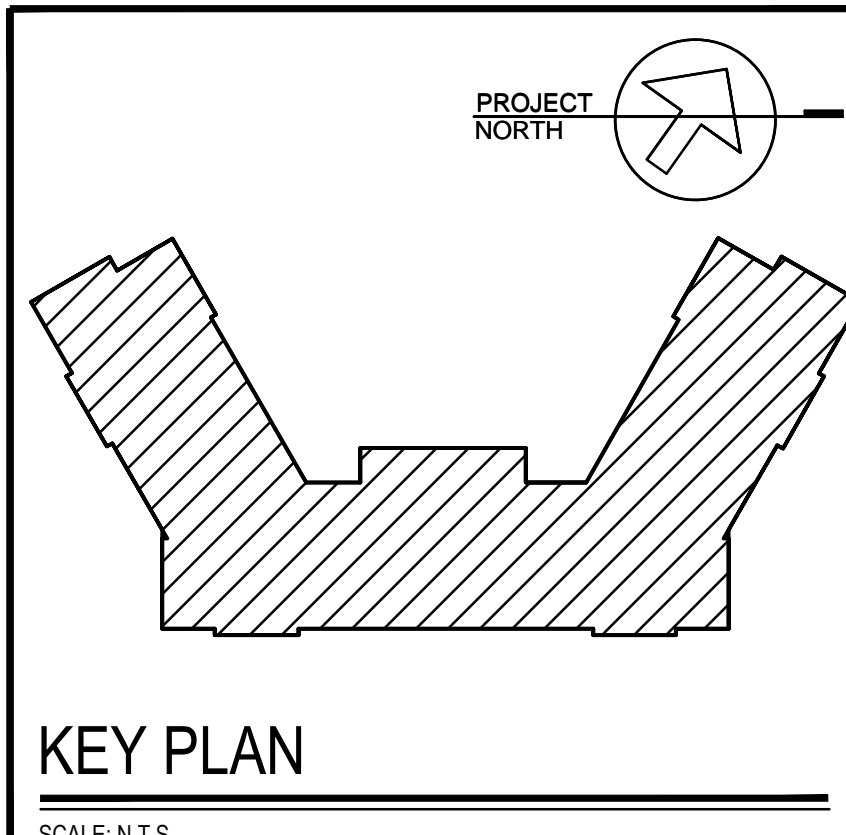
**NOTE:**

- 3/4" D EXTEND & SPILL IN FLOOR DRAIN WRAP PITCHED CONDENSATE DRAIN PIPING AROUND ROOM AS REQUIRED TO MINIMIZE PIPING ACROSS FLOOR TO FLOOR DRAIN.

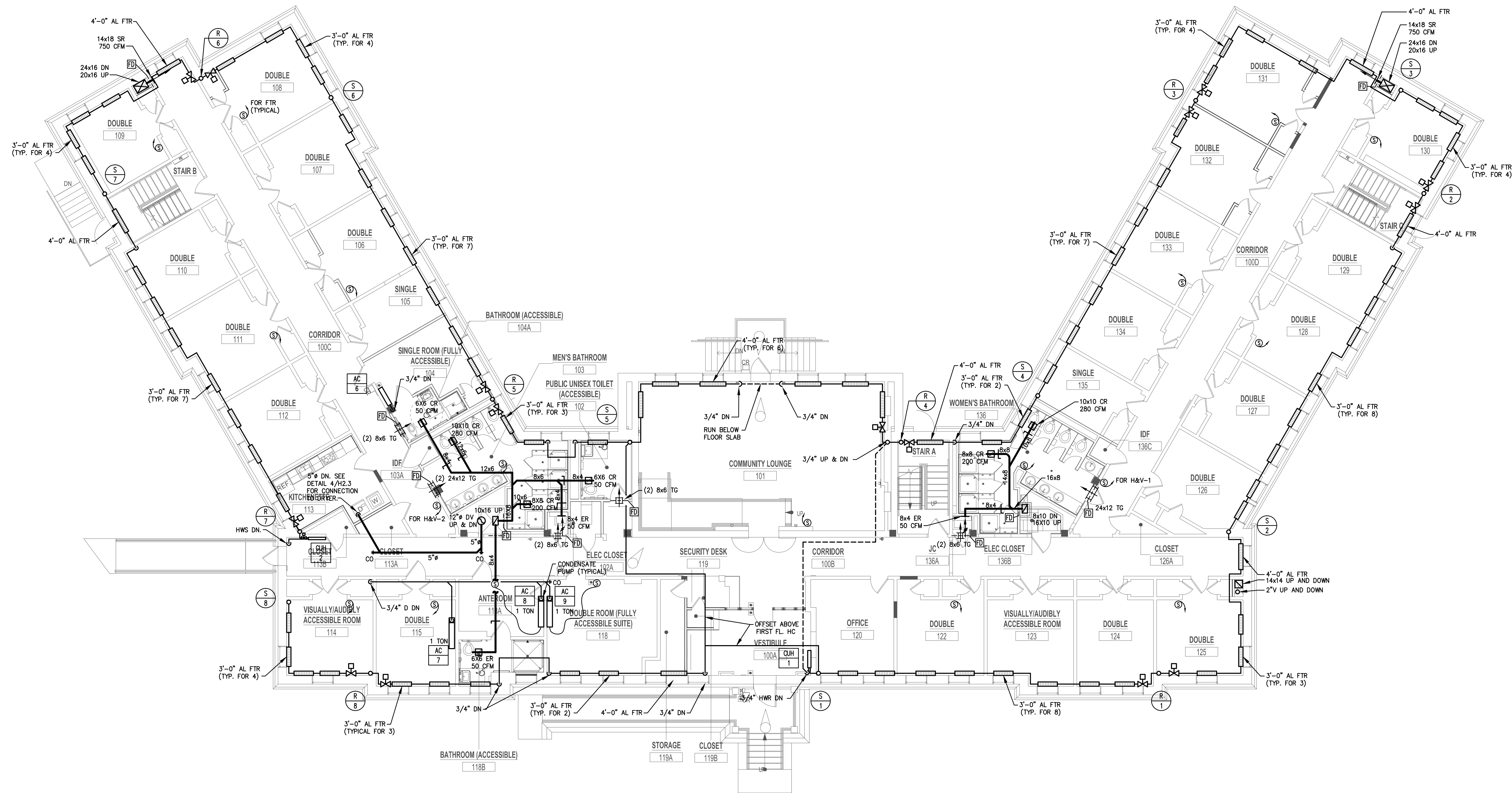


**1 BASEMENT NEW WORK PLAN - HVAC**  
H1.1 SCALE 1/8" = 1'-0"

- GENERAL NOTES:**
- PROVIDE FTR'S WITH WALL TO WALL ENCLOSURE.
  - RUN ALL HWS/R PIPING AS HIGH AS POSSIBLE TO MAXIMIZE HEADROOM. PROVIDE OFFSETS AS REQUIRED TO CLEAR OTHER PIPING, DUCTWORK, CONDUITS, LIGHTING & EQUIPMENT.
  - REFER TO DRAWING H2.2, HOT WATER PIPING RISER DIAGRAM FOR SIZE OF THE HWS/R PIPING.
  - INSTALL HWS/R RISERS IN EXISTING FLOOR OPENINGS.
  - PROVIDE PAINTED 18 GAUGE SHEET METAL ENCLOSURE FOR ALL EXPOSED TO VIEW PIPING.
  - COORDINATE EXACT LOCATION OF UNIT HEATERS IN FIELD WITH EXISTING CONDITIONS AND THE WORK OF ALL TRADES.
- HVAC CONTROL NOTES:**
- ALL HVAC EQUIPMENT SHALL BE MONITORED & CONTROLLED WITH DIRECT DIGITAL CONTROLS AND SHALL BE FULLY INTEGRATED WITH THE CAMPUS FRONT END, HONEYWELL EBI SYSTEM.

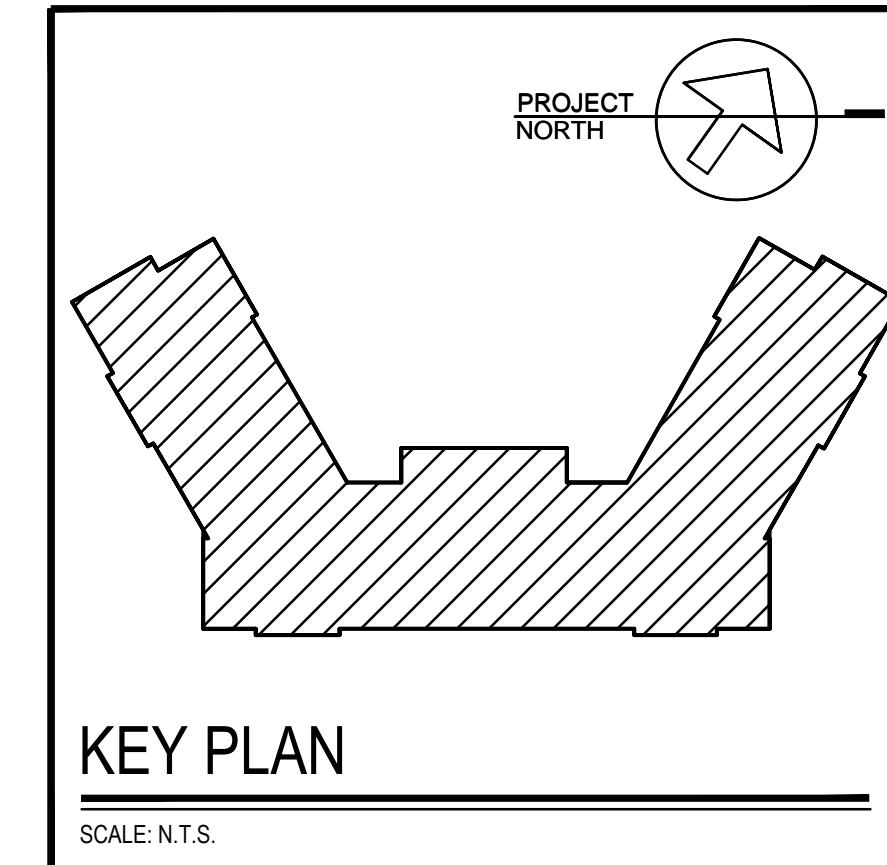


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Drawing: H-1245302000H1.DWG



**1** FIRST FLOOR NEW WORK PLAN - HVAC  
**H1.2** SCALE 1/8" = 1'-0"

- GENERAL NOTES:**
1. PROVIDE FTR'S WITH WALL TO WALL SLOPE-TOP ENCLOSURES.
  2. REFER TO DRAWING H2.2, HOT WATER PIPING RISER DIAGRAM FOR THE SIZE OF HWS/R PIPING.
  3. PROVIDE PAINTED 18 GAGE SHEET METAL ENCLOSURE FOR ALL EXPOSED TO VIEW PIPING.
- HVAC CONTROL NOTES:**
1. ALL HVAC EQUIPMENT SHALL BE MONITORED & CONTROLLED WITH DIRECT DIGITAL CONTROLS AND SHALL BE FULLY INTEGRATED WITH THE CAMPUS FRONT END, HONEYWELL EBI SYSTEM.



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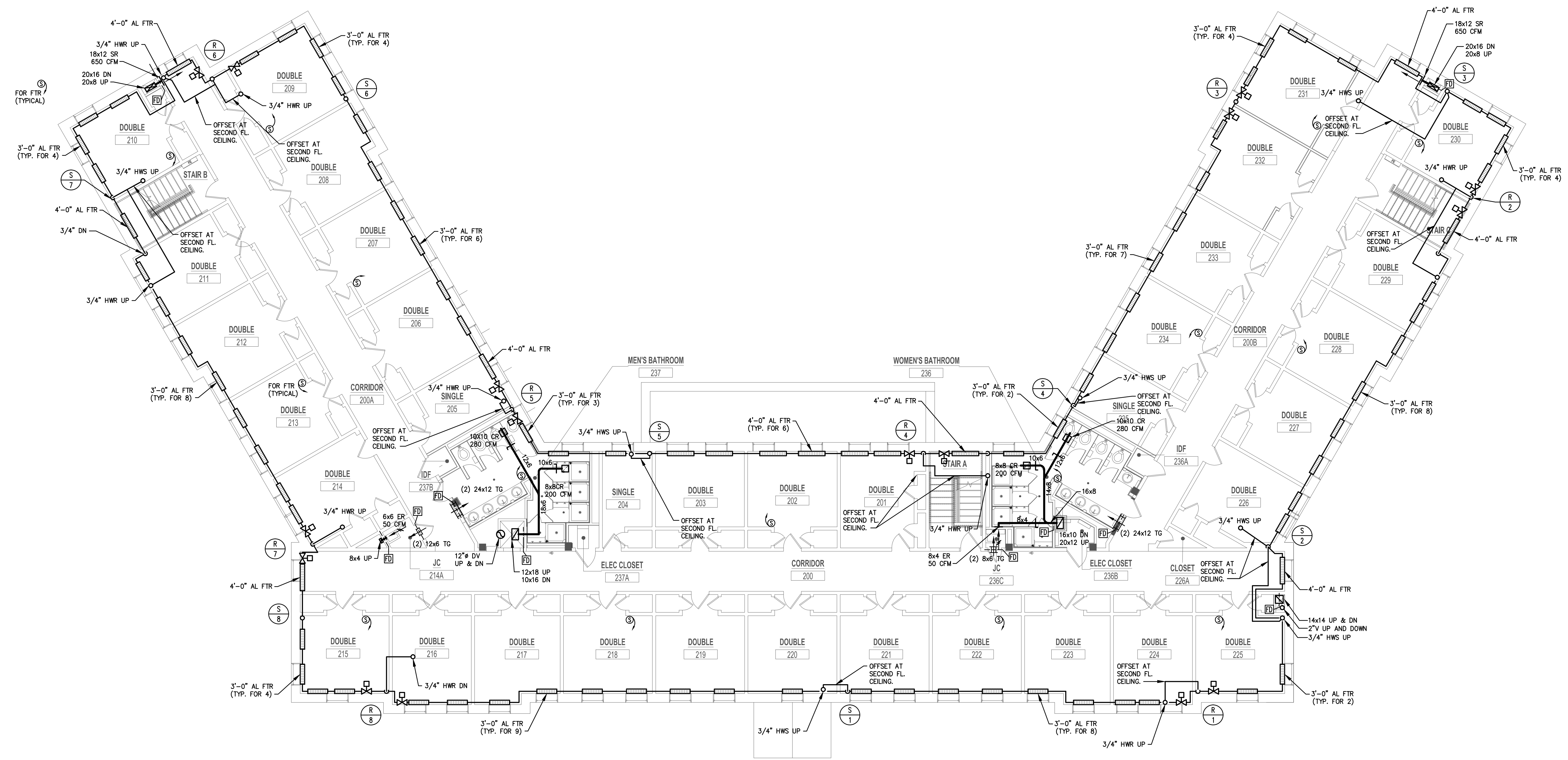
S. Louis Kelter, P.E. Frank Tindal, P.E.  
 Professional Engineer Professional Engineer  
 NJ 21265 NJ 38656

NO.	DATE	DESCRIPTION
3	5/11/15	BASEMENT LOUNGE REV.
2	7/8/14	FOR CONSTRUCTION
1	5/20/14	ADDENDUM NO.1

STATUS/REVISIONS	
SHEET TITLE	SCALE
<b>FIRST FLOOR NEW WORK PLAN - HVAC</b>	AS NOTED
DRAWN BR	CHECKED RS
DATE 3/28/14	SHEET NO. <b>H1.2</b>
SCALE: N.T.S.	

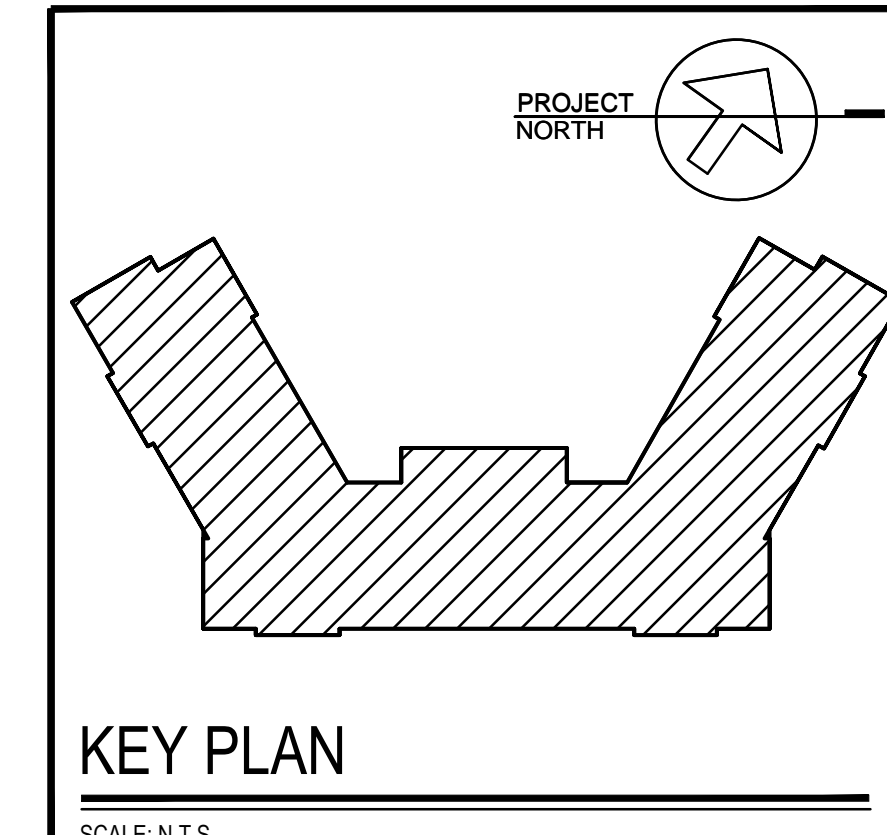
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**1 SECOND FLOOR NEW WORK PLAN - HVAC**  
 H1.3 SCALE 1/8" = 1'-0"

- GENERAL NOTES:**
1. PROVIDE FIR'S WITH WALL TO WALL SLOPE-TOP ENCLOSURES.
  2. REFER TO DRAWING H2.2, HOT WATER PIPING RISER DIAGRAM FOR SIZE OF HWS/R PIPING.
  3. PROVIDE PAINTED 18 GAGE SHEET METAL ENCLOSURE FOR ALL EXPOSED TO VIEW PIPING.
- HVAC CONTROL NOTES:**
1. ALL HVAC EQUIPMENT SHALL BE MONITORED & CONTROLLED WITH DIRECT DIGITAL CONTROLS AND SHALL BE FULLY INTEGRATED WITH THE CAMPUS FRONT END, HONEYWELL EBI SYSTEM.



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STATE PLAN # PLAN# DRG NO.  
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CONFORMANCE SET  
 7/8/14

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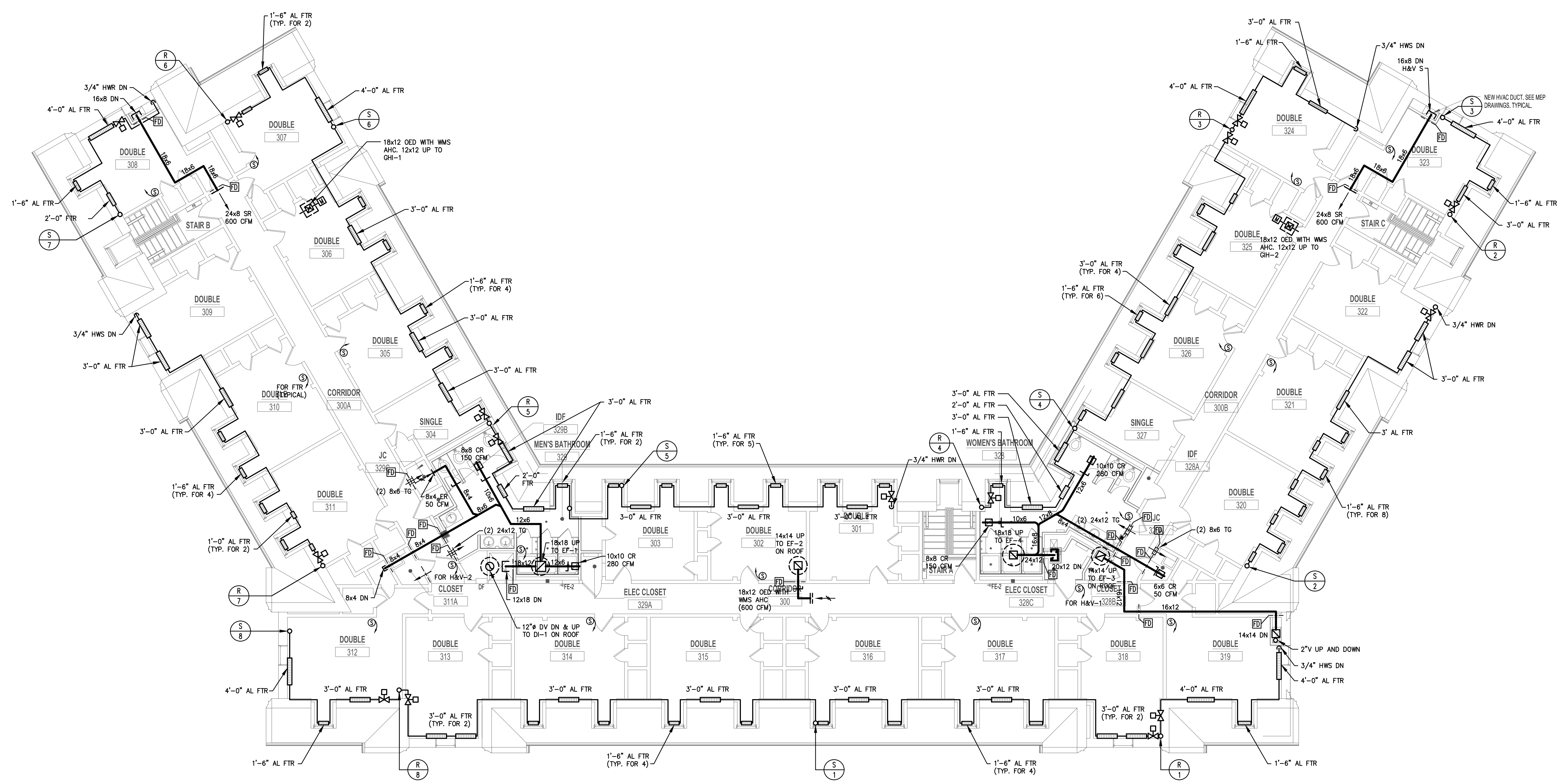
P.O. BOX 777 14 WASHINGTON RD.  
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S. Louis Kelter, P.E. Frank Tindal, P.E.  
 Professional Engineer Professional Engineer  
 NJ 21265 NJ 38656

NO.	DATE	DESCRIPTION
3	5/11/15	BASEMENT LOUNGE REV.
2	7/8/14	FOR CONSTRUCTION
1	5/20/14	ADDENDUM NO.1

STATUS/REVISIONS	
SHEET TITLE	
SECOND FLOOR NEW WORK PLAN - HVAC	
SCALE: AS NOTED	DRAWN: BR
DATE: 3/28/14	CHECKED: RS
SHEET NO. <b>H1.3</b>	

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 Drawing: H:\2450\24500001\_3.DWG



**1**  
H1.4 **THIRD FLOOR NEW WORK PLAN - HVAC**  
SCALE 1/8" = 1'-0"

- GENERAL NOTES:**
1. PROVIDE FTR'S WITH WALL TO WALL SLOPE-TOP ENCLOSURES.
  2. REFER TO THE DRAWING H2.2, HOT WATER PIPING RISER DIAGRAM FOR SIZE OF HWS/R PIPING.
  3. PROVIDE PAINTED 18 GAGE SHEET METAL ENCLOSURE FOR ALL EXPOSED TO VIEW PIPING.

- HVAC CONTROL NOTES:**
1. ALL HVAC EQUIPMENT SHALL BE MONITORED & CONTROLLED WITH DIRECT DIGITAL CONTROLS AND SHALL BE FULLY INTEGRATED WITH THE CAMPUS FRONT END, HONEYWELL EBI SYSTEM.

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STATE PLAN # PLAN# DRG NO.  
**1315**

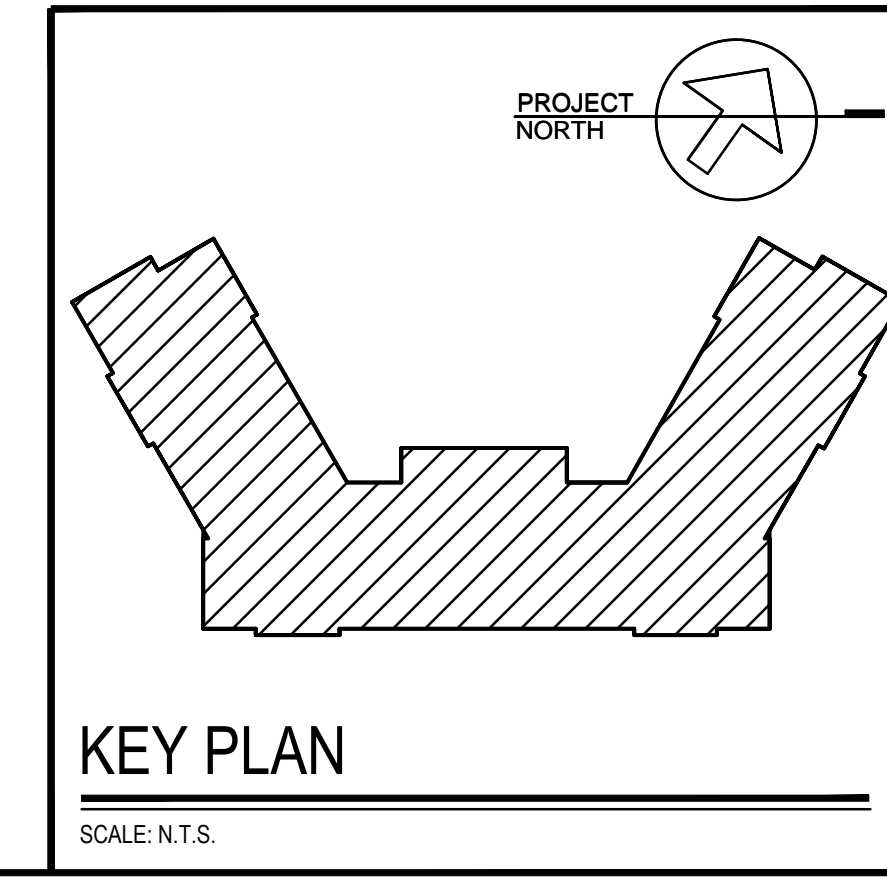
**CONFORMANCE SET**  
7/8/14

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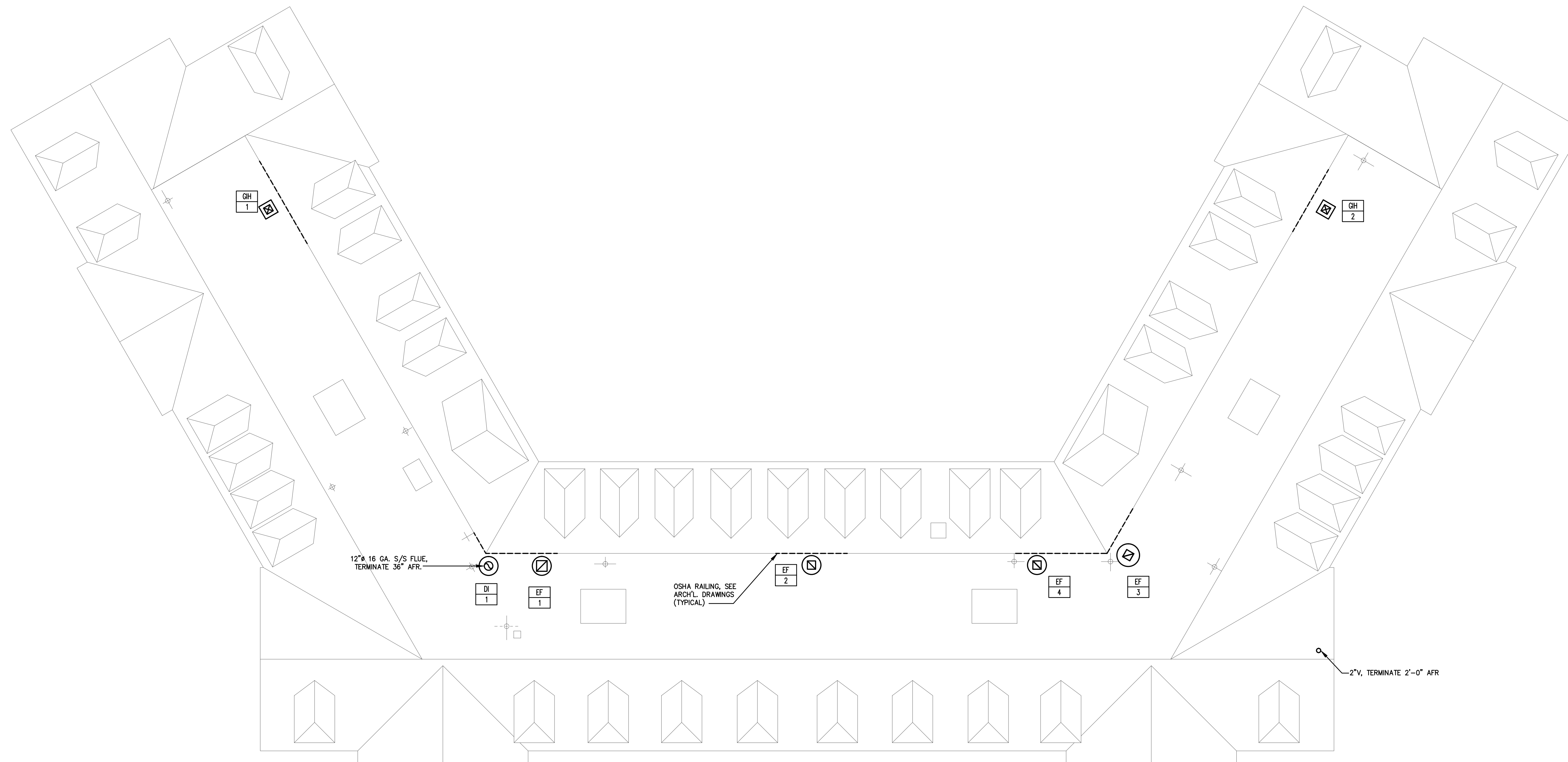
S. Louis Kelter, P.E. Frank Tindal, P.E.  
Professional Engineer Professional Engineer  
NJ 21263 NJ 38659

NO.	DATE	DESCRIPTION
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2	7/8/14	FOR CONSTRUCTION
1	5/20/14	ADDENDUM NO.1

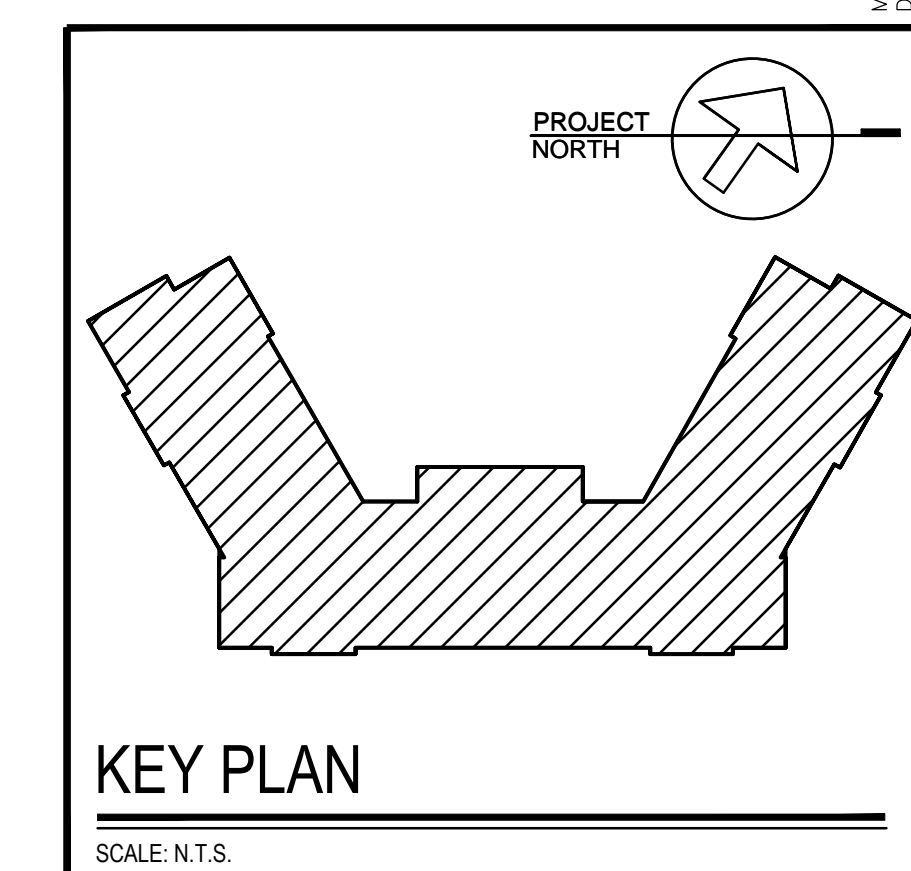
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DATE: 3/28/14	RS
SHEET NO. <b>H1.4</b>	



March 26, 2014 2:56:51 PM  
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1 ROOF NEW WORK PLAN - HVAC  
 H1.5 SCALE 1/8" = 1'-0"



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STATE PLAN # PLAN # DRG NO.  
 1315

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 7/8/14

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S. Louis Ketter, P.E. Frank Tindal, P.E.  
 Professional Engineer Professional Engineer  
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1	5/20/14	ADDENDUM NO.1

STATUS/REVISIONS

SHEET TITLE  
**ROOF  
 NEW WORK PLAN  
 - HVAC**

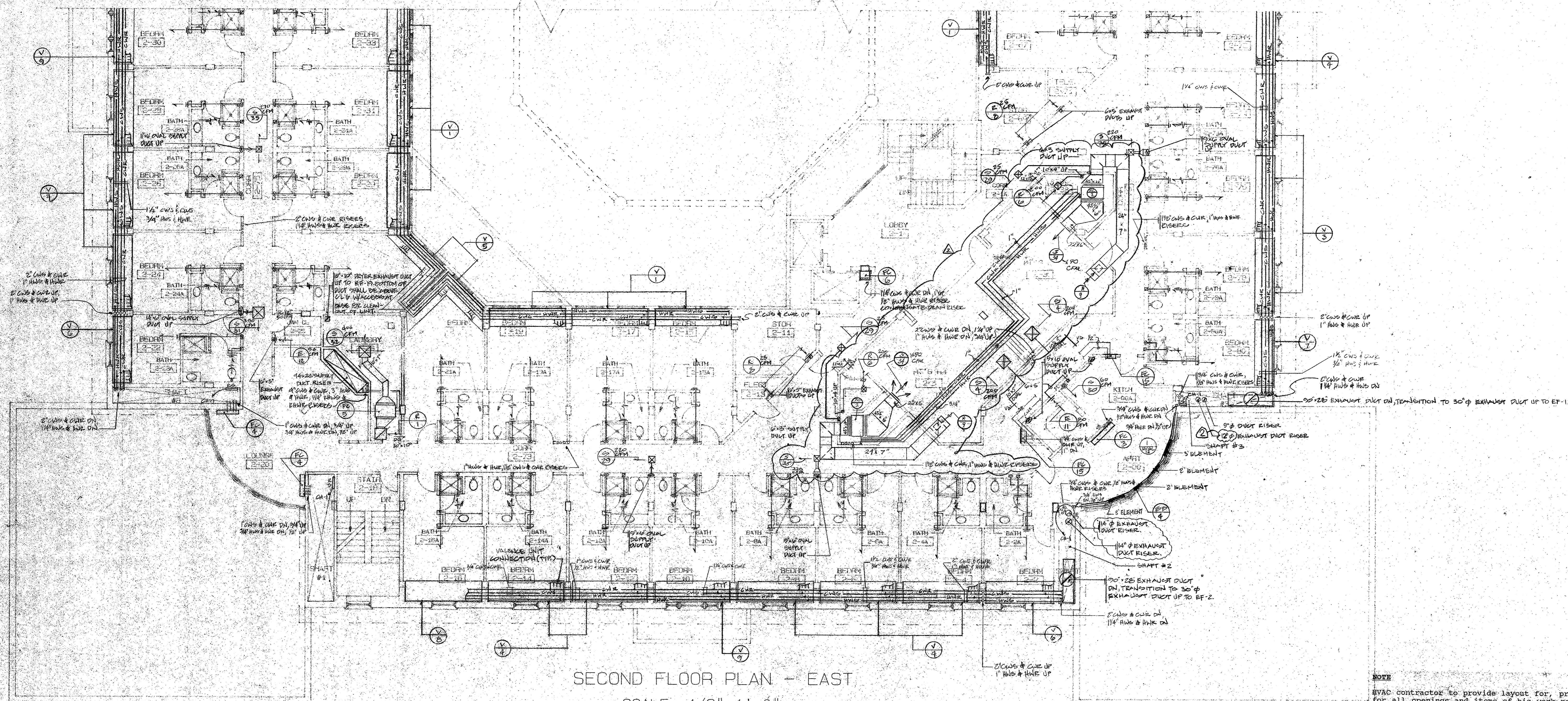
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DATE: 3/28/14	CHECKED: RS

SHEET NO.  
**H1.5**

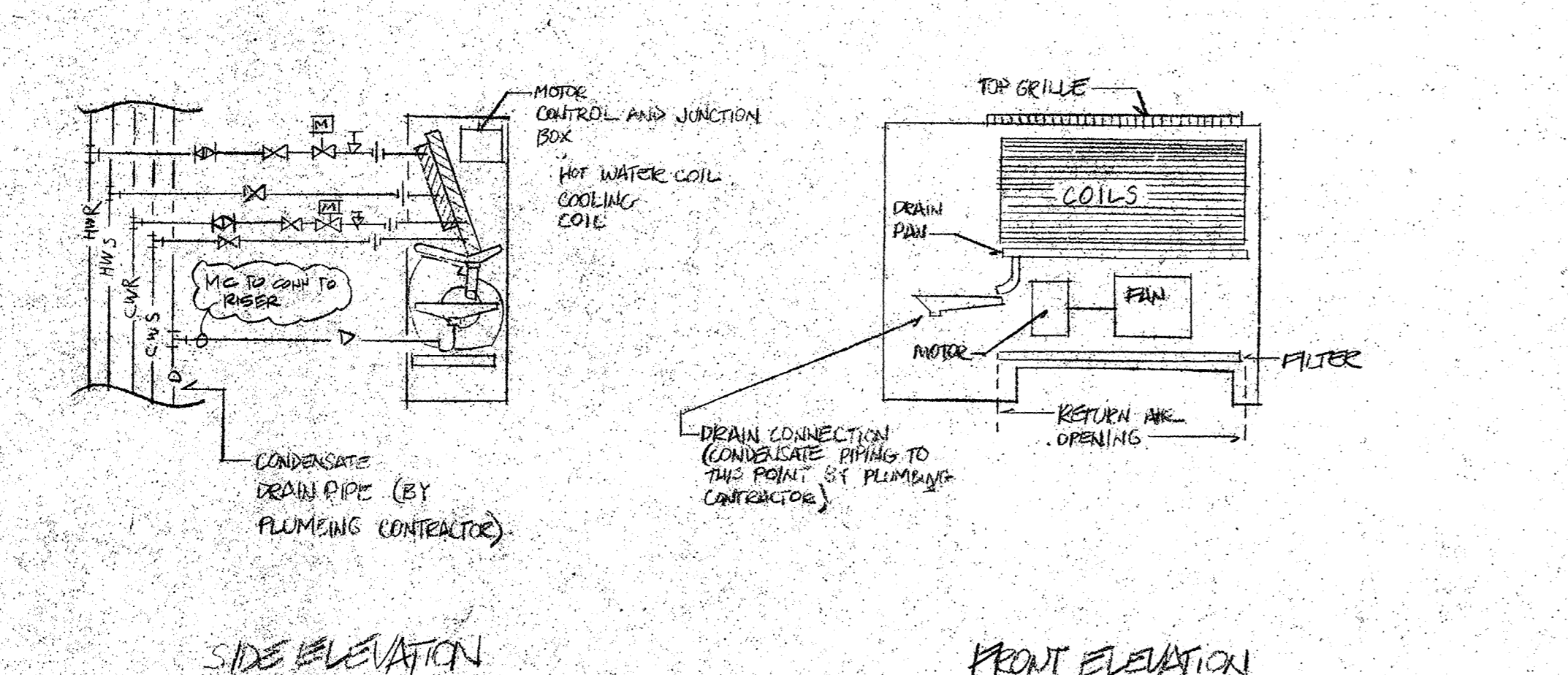
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**TRENTON STATE COLLEGE**

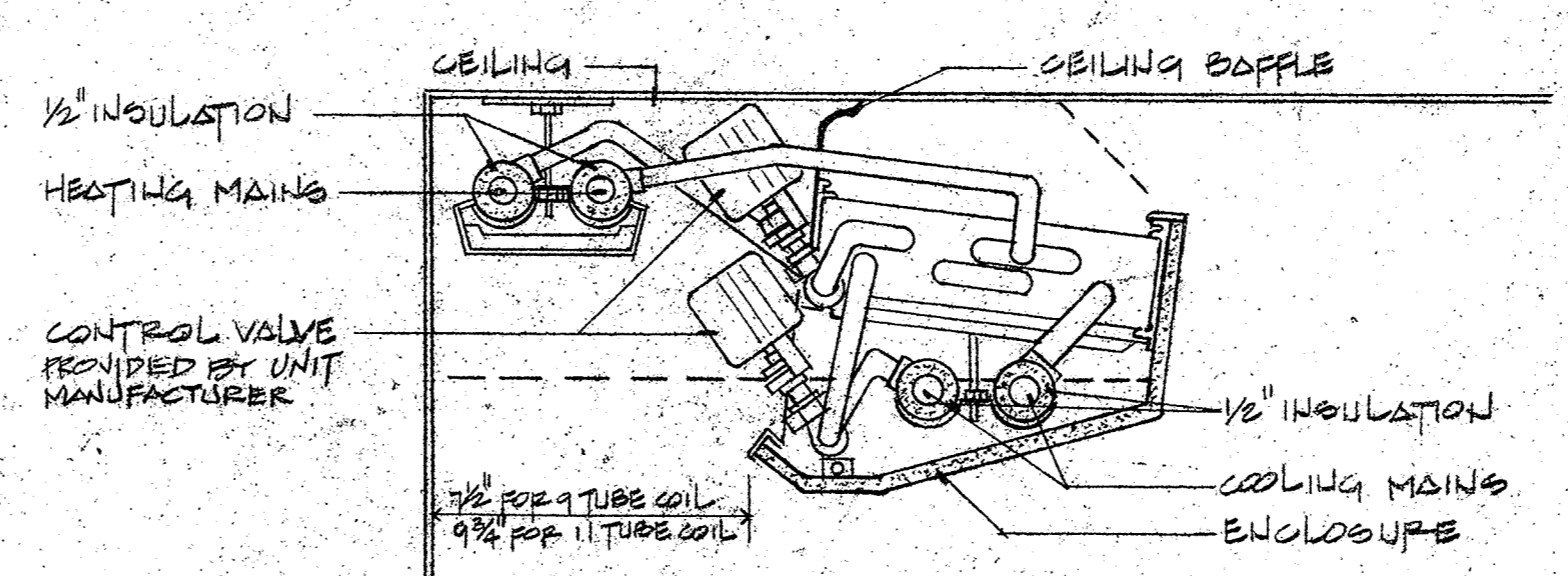
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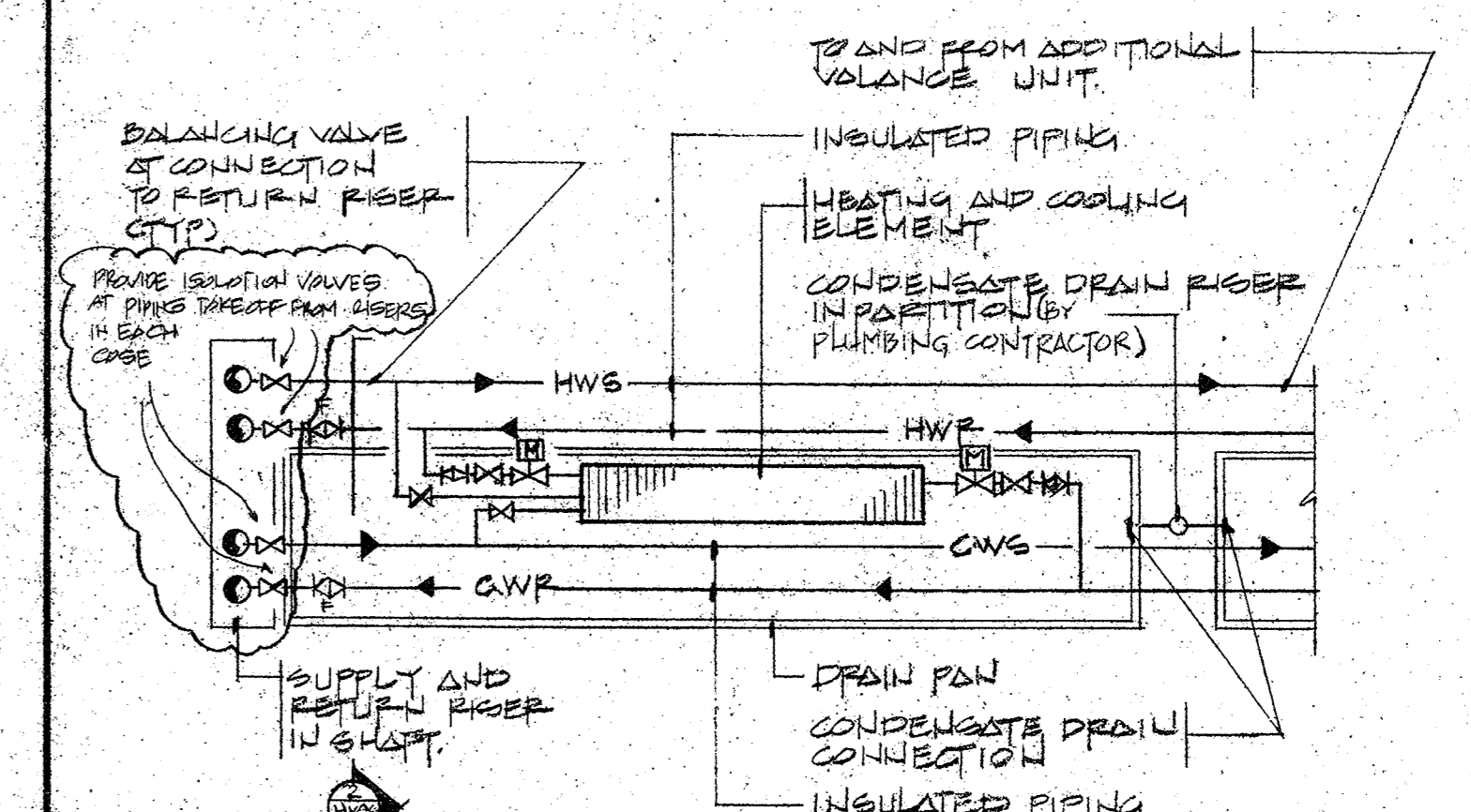
**NOTE**  
 HVAC contractor to provide layout for, provide, and set sleeves for all openings and items of his work passing through the concrete flat plates. Cooperate with GC to provide sleeves to meet his casting schedule. GC will relocate reinforcing to suit required locations of sleeves. ALL WORK MUST BE SLEEVED OR BOXED OUT. NO DRILLING OF CONCRETE SLABS (1 1/2" concrete slabs) will be permitted. Also provide box outs for major openings in 1st and 2nd floor slabs.



① **TYPICAL VERTICAL FAN COIL UNIT DETAIL - 4 PIPE SYSTEM (FC-3, 4, 7, 8, 11, 17, 18)**  
 FC-4, 9, 5, 16 ARE 2 PIPE SYSTEMS UNIT AND PIPING CONFIGURATION ARE SIMILAR, LESS HOT WATER PIPING AND COIL.  
 NO SCALE



② **TYPICAL VALANCE UNIT - SECTION (V-1 THRU 11)**  
 NO SCALE



③ **TYPICAL VALANCE UNIT PIPING SCHEMATIC PLAN (V-1 THRU 11)**  
 BALANCING AND SHUT-OFF VALVES ARE NOT SUPPLIED BY UNIT MFR.

NO.	REVISION	DATE

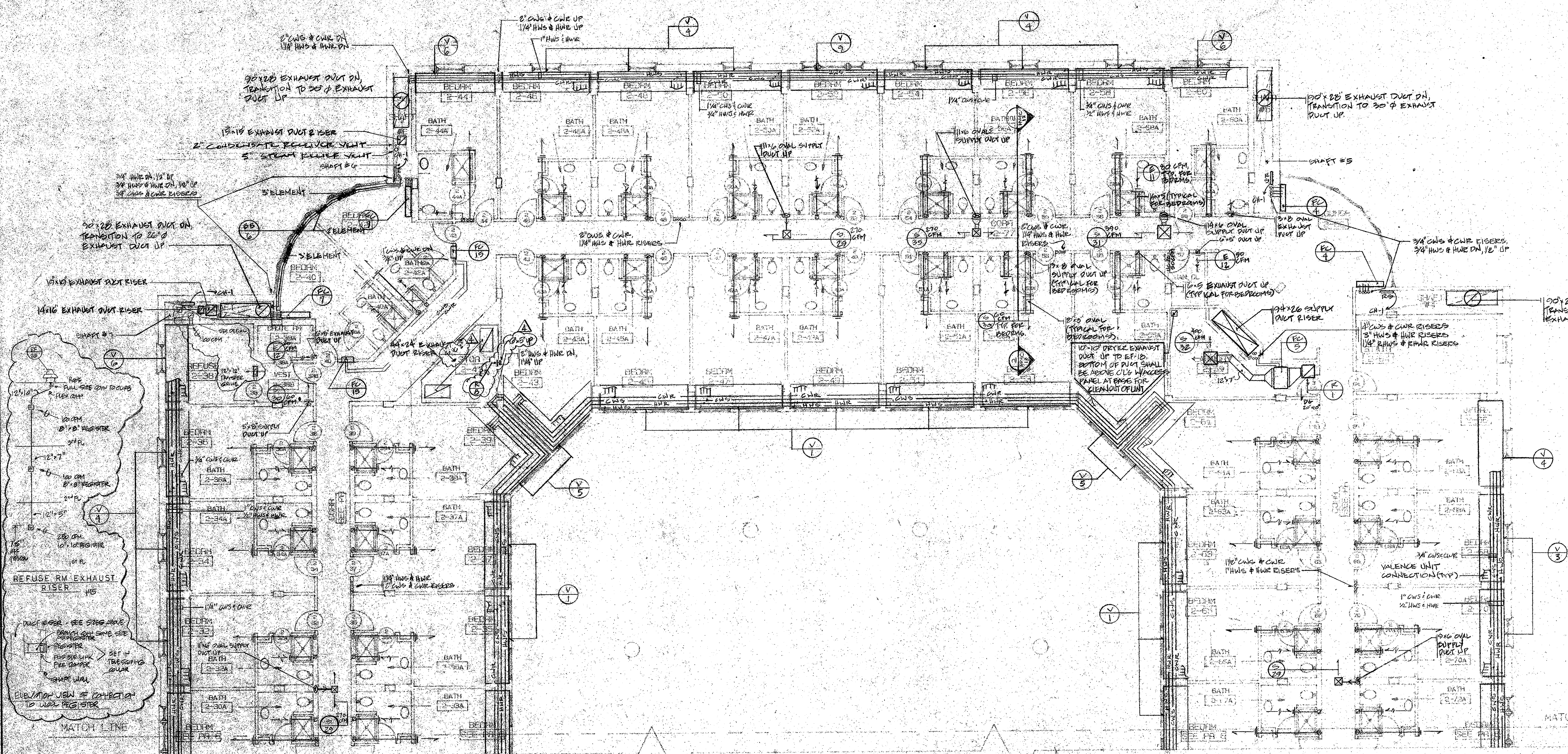
REVISION 4/23/90  
 SUBMISSION TO BOX 12/21/88 FOR REVIEW  
 100/9/90 EUC 10/9/89

DRAWING TITLE  
**HVAC**  
**SECOND FLOOR - EAST**

DATE  
**JUNE 30, 1989**  
 SCALE  
 AS NOTED  
 DRAWN  
 .DJH  
 CHECKED  
 DRAWING NUMBER

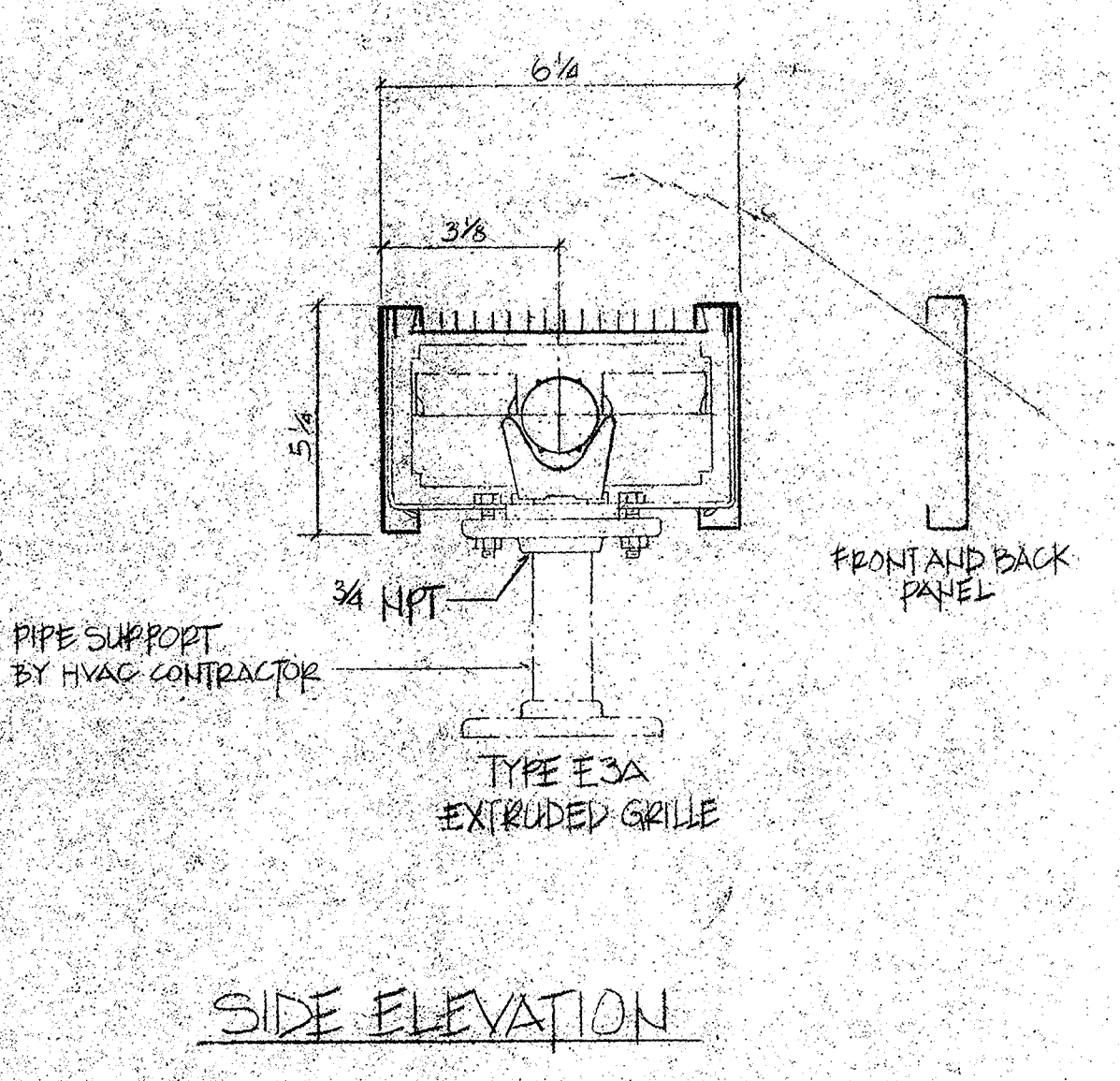
**TRENTON STATE COLLEGE**

**PHELPS HALL**

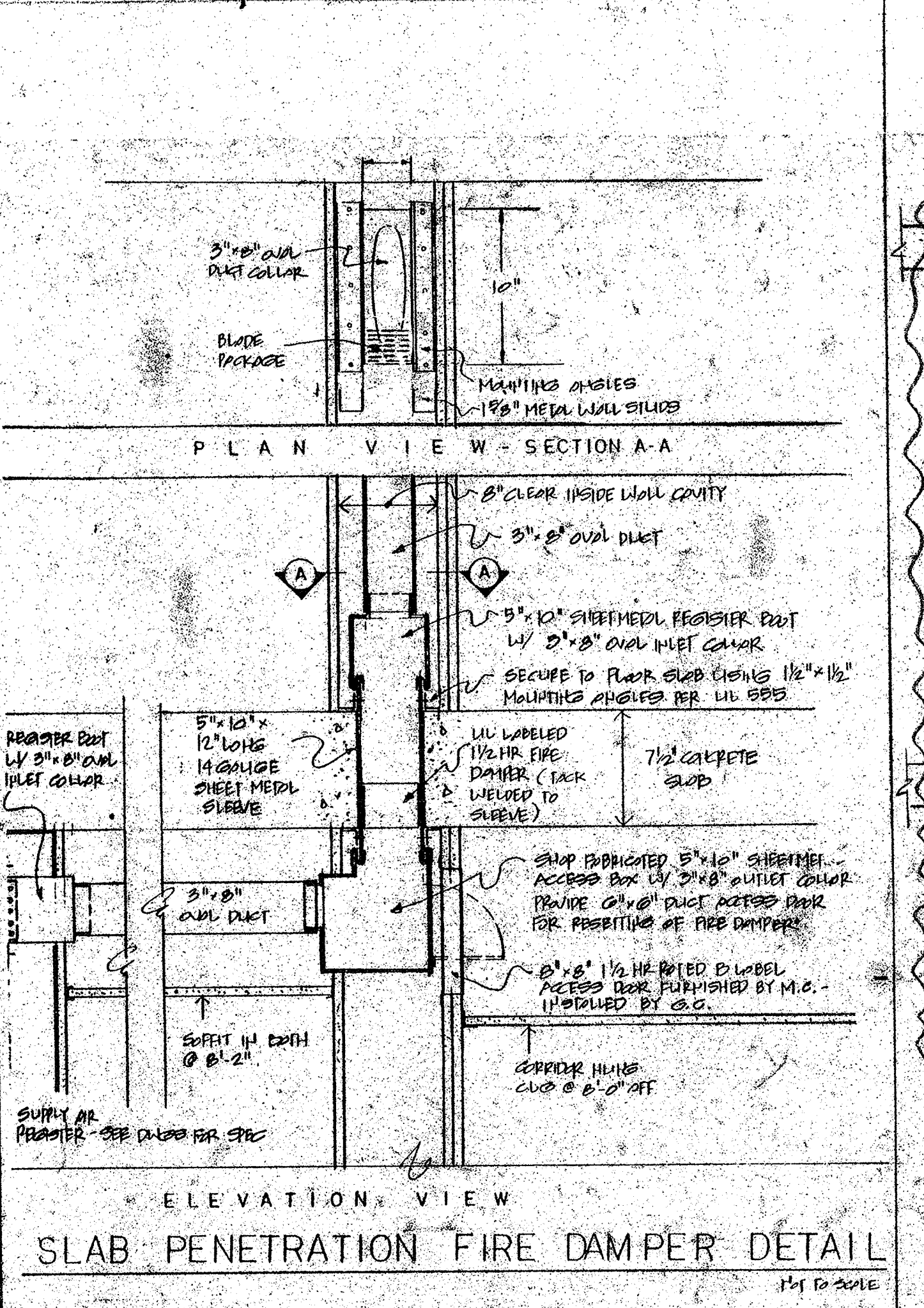
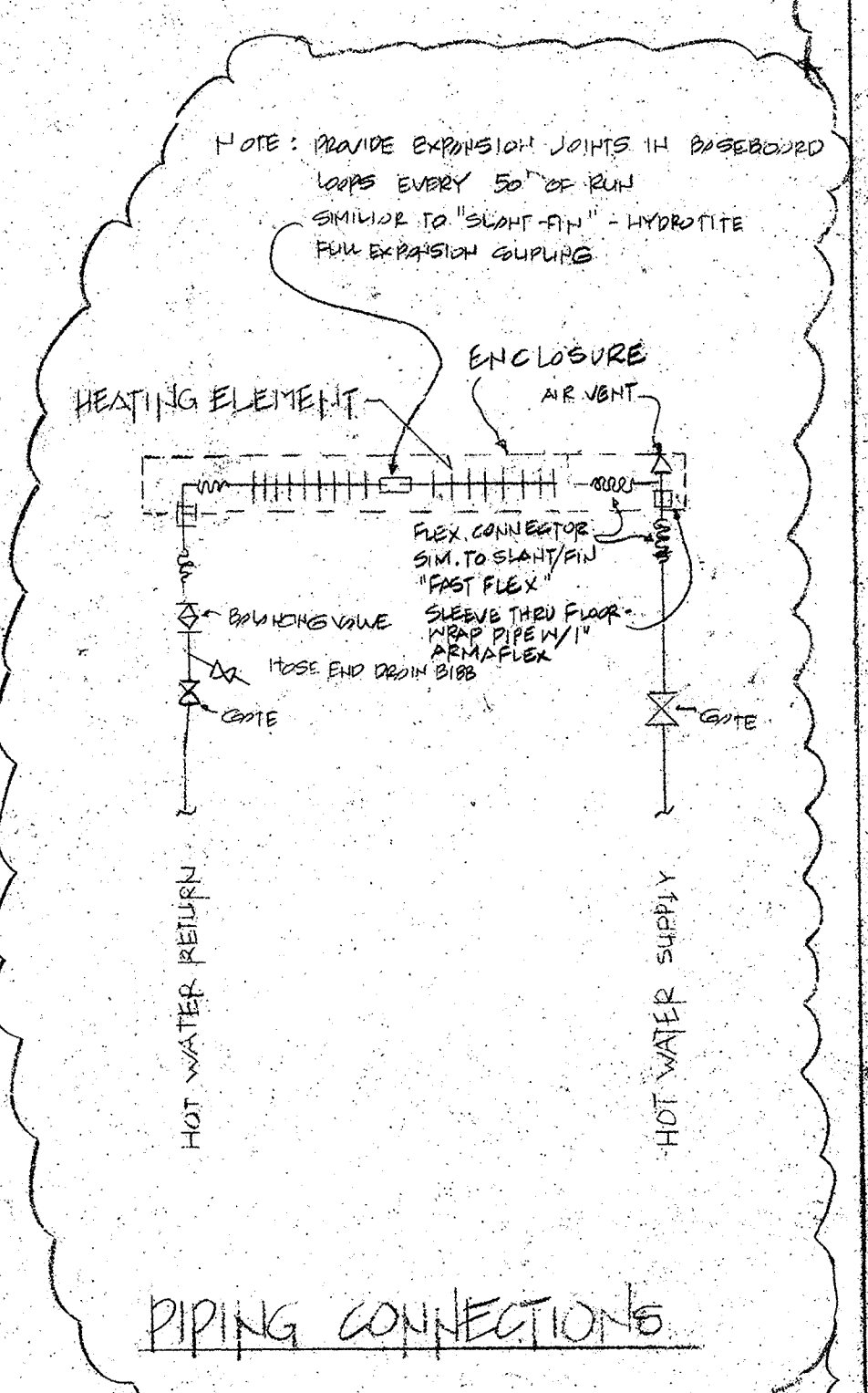


**SECOND FLOOR PLAN - WEST**  
 SCALE: 1/8" = 1'-0"

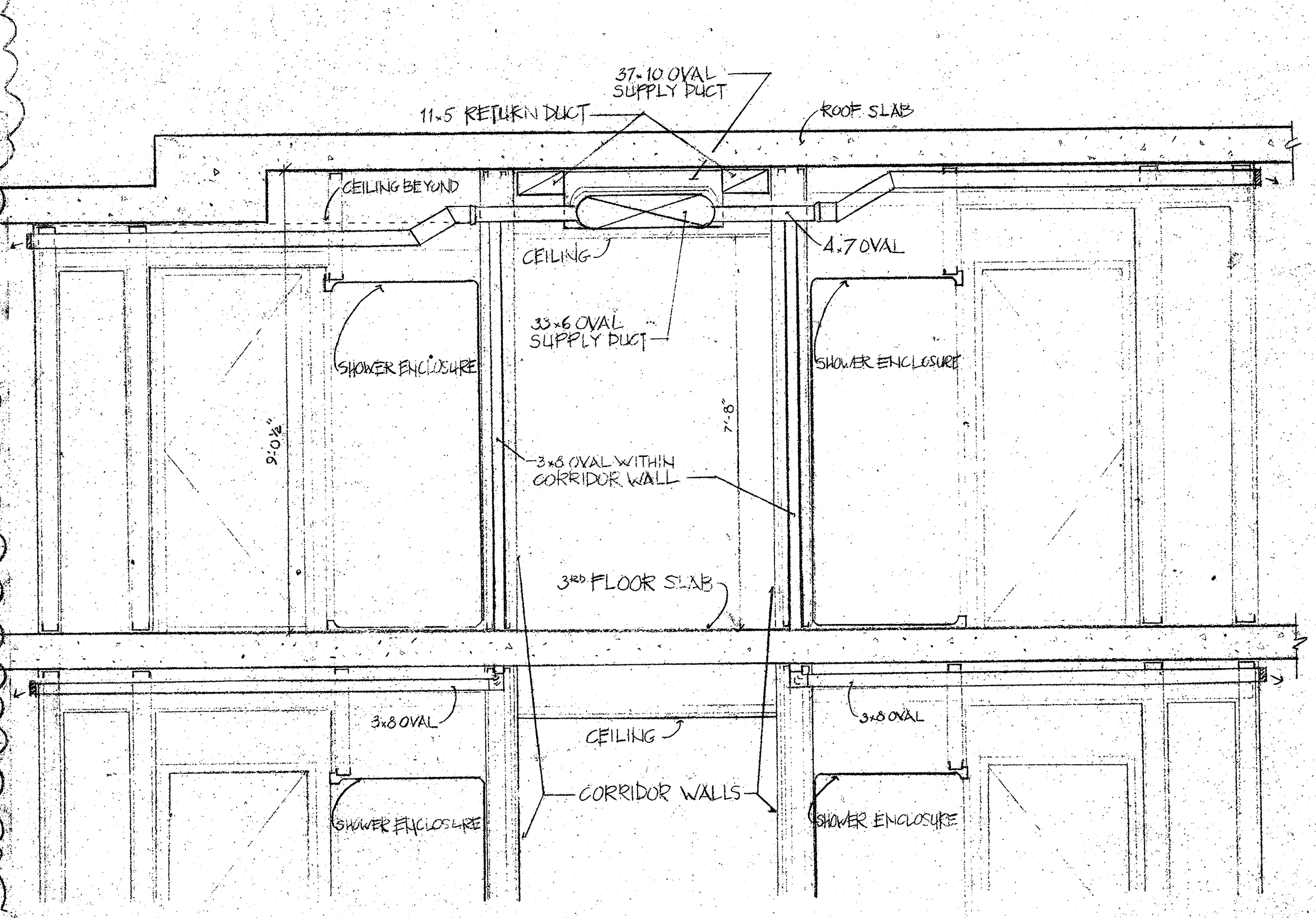
**NOTE**  
 HVAC contractor to provide layout for, provide, and set sleeves for all openings and items of his work passing through the concrete flat plates. Cooperate with GC to provide sleeves to meet his casting schedule. GC will relocate reinforcing to suit required locations of sleeves. ALL WORK MUST BE SLEEVED OR BOXED OUT. NO DRILLING OF CONCRETE SLABS (7 1/2" concrete slabs) will be permitted. Also provide box outs for major openings in 1st and 2nd floor slabs.



**1 BASEBOARD RADIATION DETAIL (BB-1 THRU 6)**  
 NO SCALE



**NOTE**  
 EVERY DUCT PENETRATION THROUGH THE 3RD FLOOR SLAB SHALL BE PROVIDED BY A FIRE DAMPER AS MEANS FOR PROTECTION OF DAMPER. THE ABOVE DETAIL APPLIES TO THE SHOWER ENCLOSURE AND TO CORRIDOR ENCLOSURE PENETRATIONS FROM THE 3RD FLOOR AND OFFICE SUPPLY DUCT PENETRATIONS SHALL BE TREATED IN A SIMILAR MANNER. SUBMIT THESE DETAILS TO SHOWER ENCLOSURE AND CORRIDOR ENCLOSURE.



**2 SECTION**  
 SCALE: 1/2" = 1'-0"

**FOR CONSTRUCTION 7-12-90**

RESUBMISSION TO DCA: 12/21/89 FOR REVIEW  
 P&E: R00000414.4 12/1/89

1 GENERAL 10/3/89

NO.	REVISION	DATE

DRAWING TITLE  
 HVAC  
 SECOND FLOOR - WEST

DATE  
 JUNE 30, 1989

SCALE  
 AS NOTED

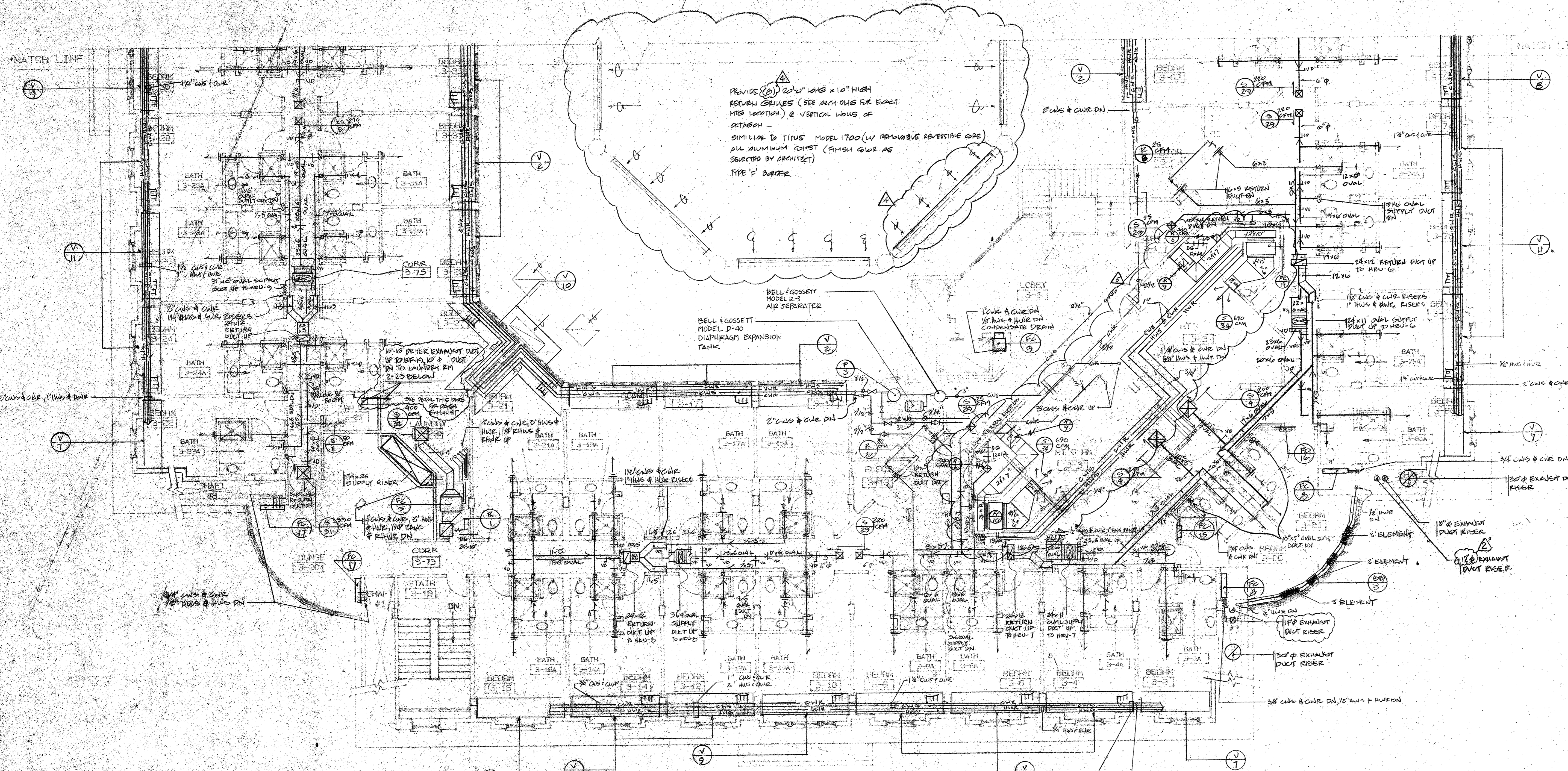
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 DJH

CHECKED  
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DRAWING NUMBER  
 HVAC-13

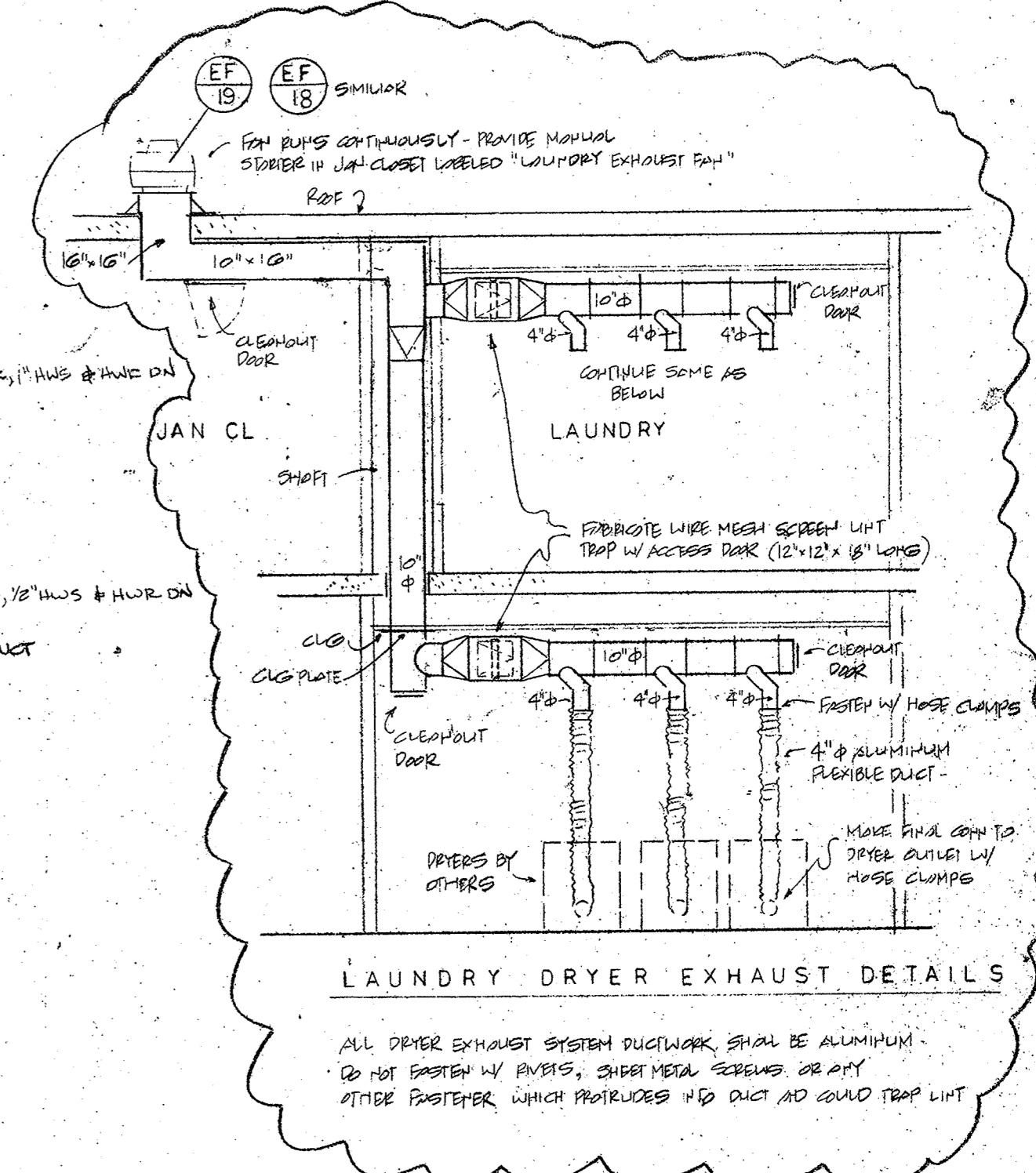
TRENTON STATE COLLEGE  
PHELPS HALL

PHELPS HALL



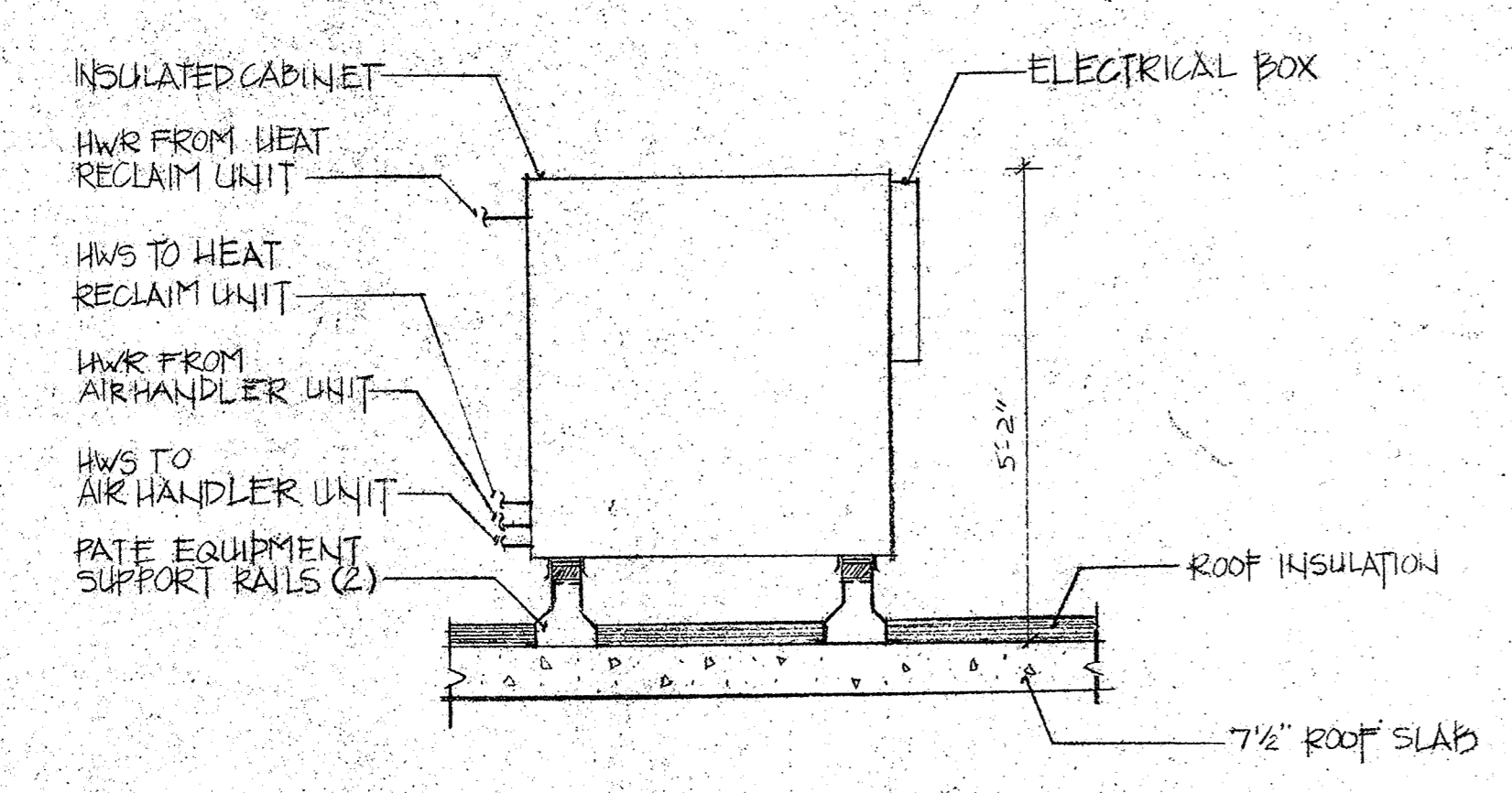
THIRD FLOOR - EAST

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

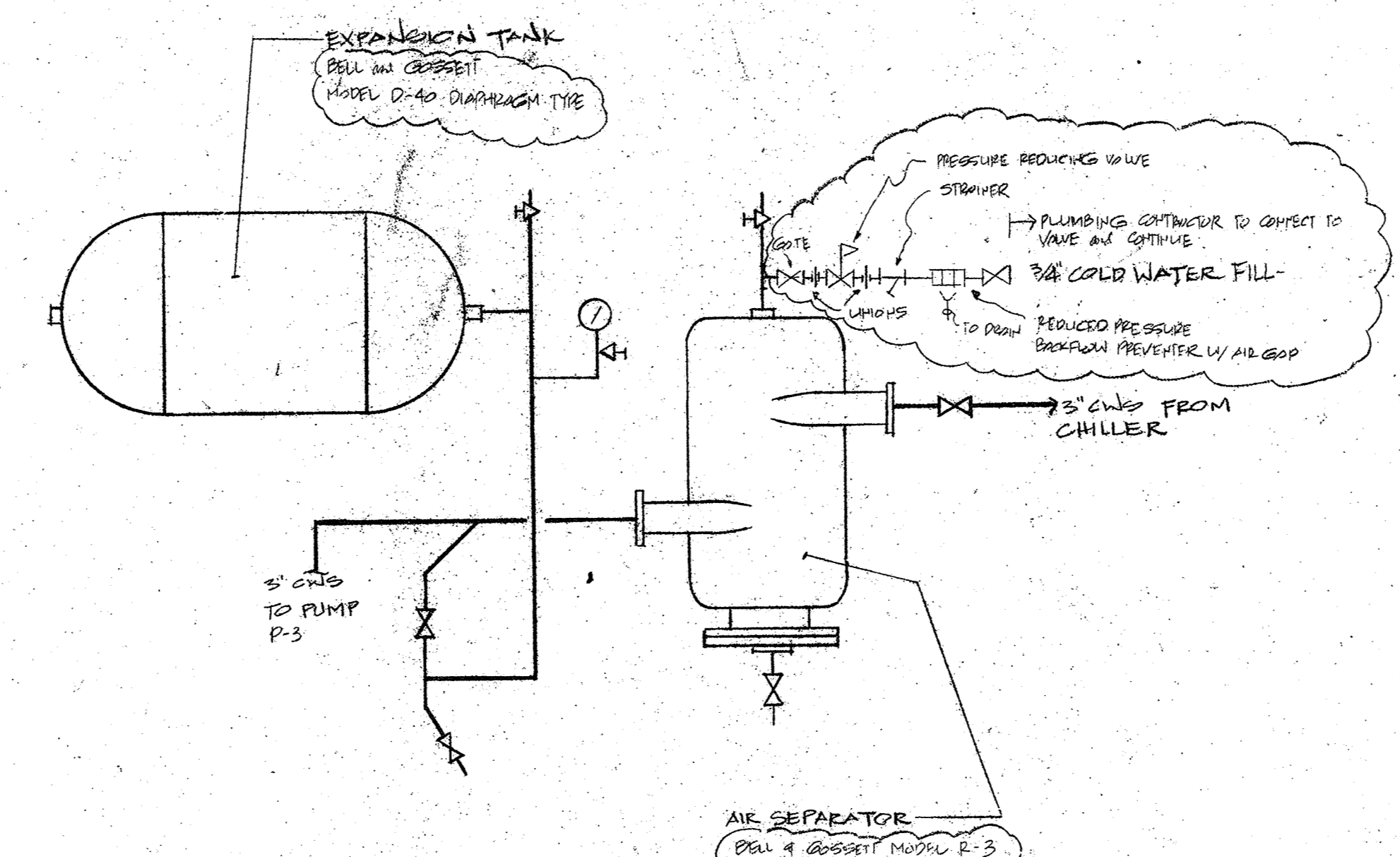


LAUNDRY DRYER EXHAUST DETAILS

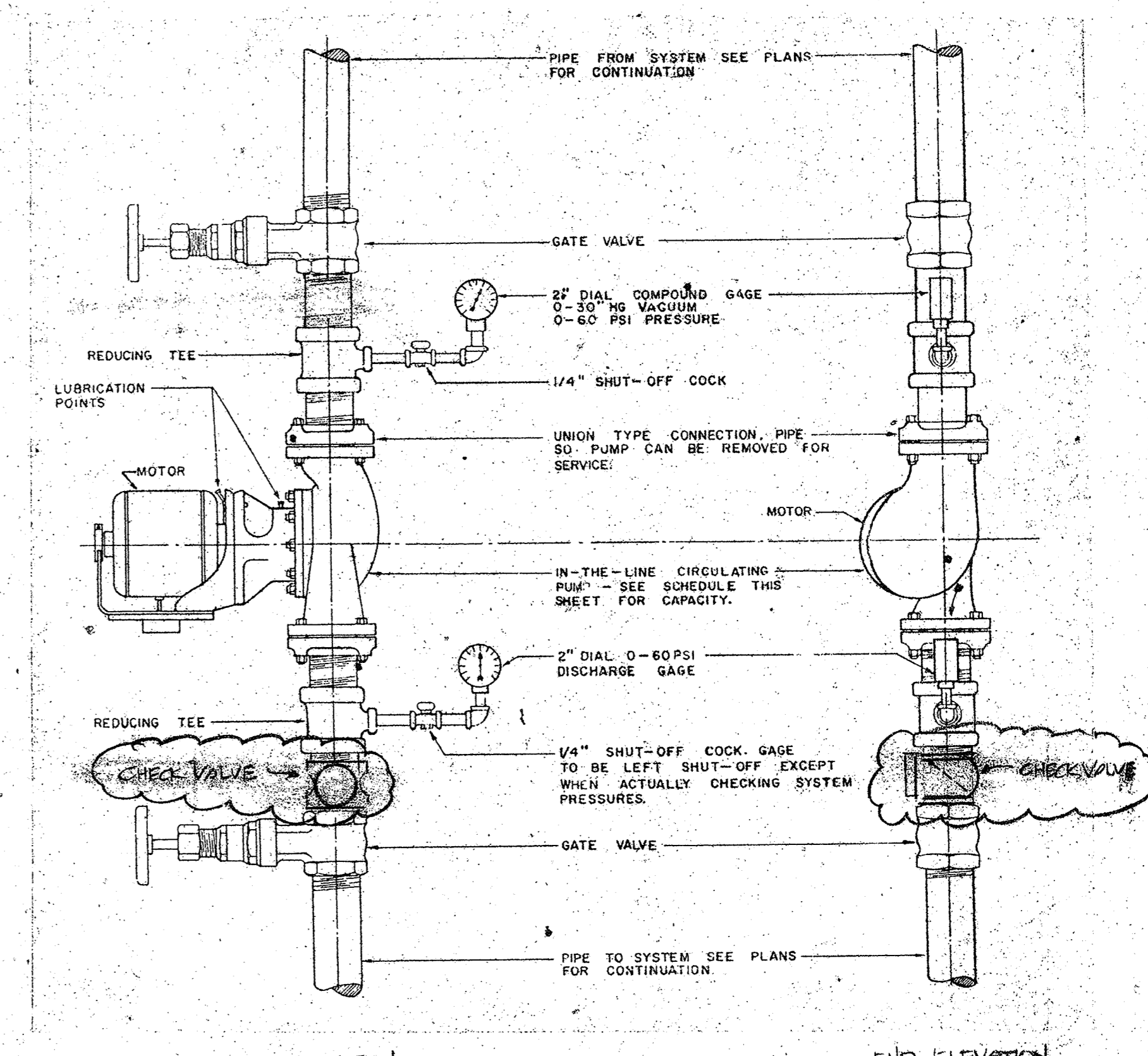
NOTE  
HVAC contractor to provide layout for, provide, and set sleeves for all openings and items of his work passing through the concrete flat plates. Cooperate with GC to provide sleeves to meet his casting schedule. GC will relocate reinforcing to suit required locations of sleeves. ALL WORK MUST BE SLEEVED OR BOXED OUT. NO DRILLING OF CONCRETE SLABS (12" MIN. CONCRETE SLABS) WILL BE PERMITTED. Also provide box outs for major openings in 1st and 2nd floor slabs.



1 TYPICAL ENERGY RECOVERY UNIT ELEVATION (ER-1 & 2)  
SCALE: 1/2"=1'-0"



2 AIR SEPARATOR + EXPANSION TANK DETAIL  
(SERVING PUMP P-3)  
NO SCALE

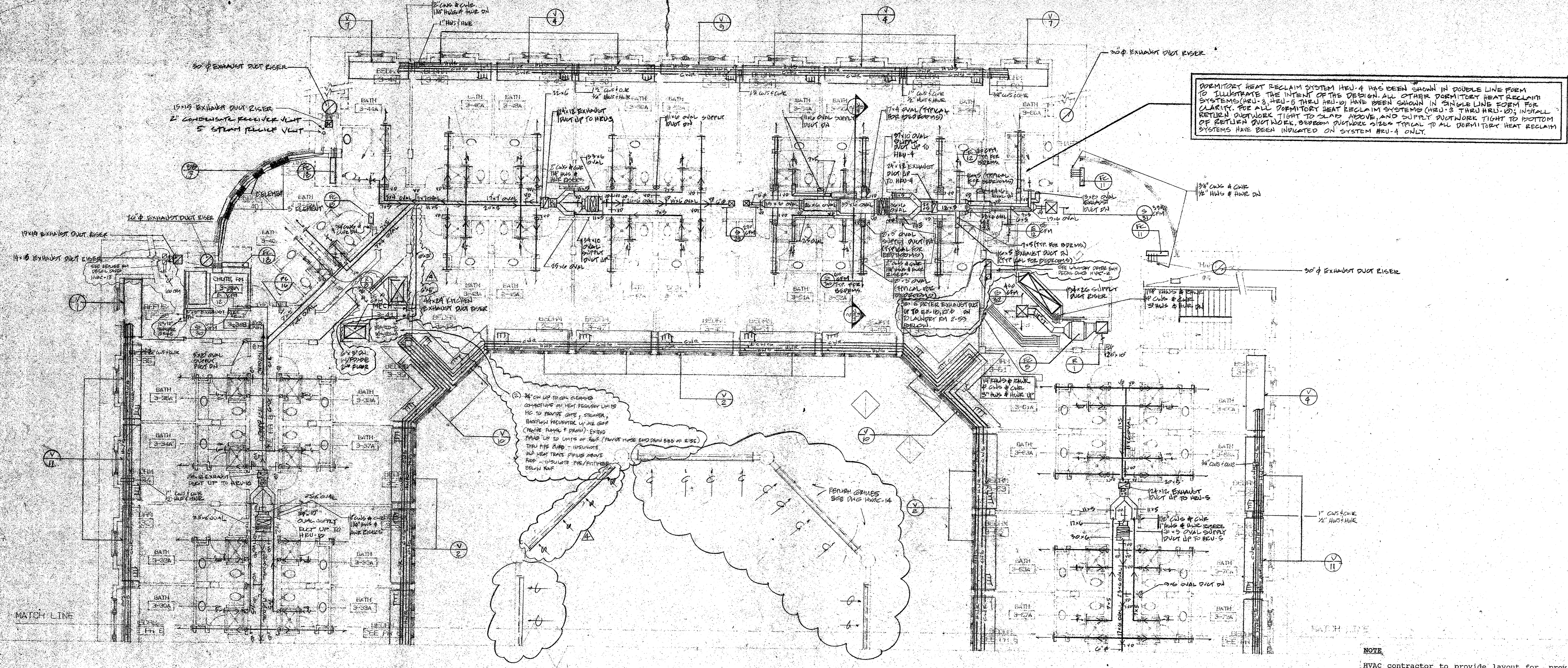


3 TYPICAL IN-LINE CIRCULATING PUMP DETAIL (P-3 THRU 611)  
NO SCALE

Revision table with columns for NO., REVISION, and DATE. Includes drawing title 'HVAC THIRD FLOOR - EAST' and drawing number 'HVAC-14'.

TRENTON STATE COLLEGE  
 PHELPS HALL

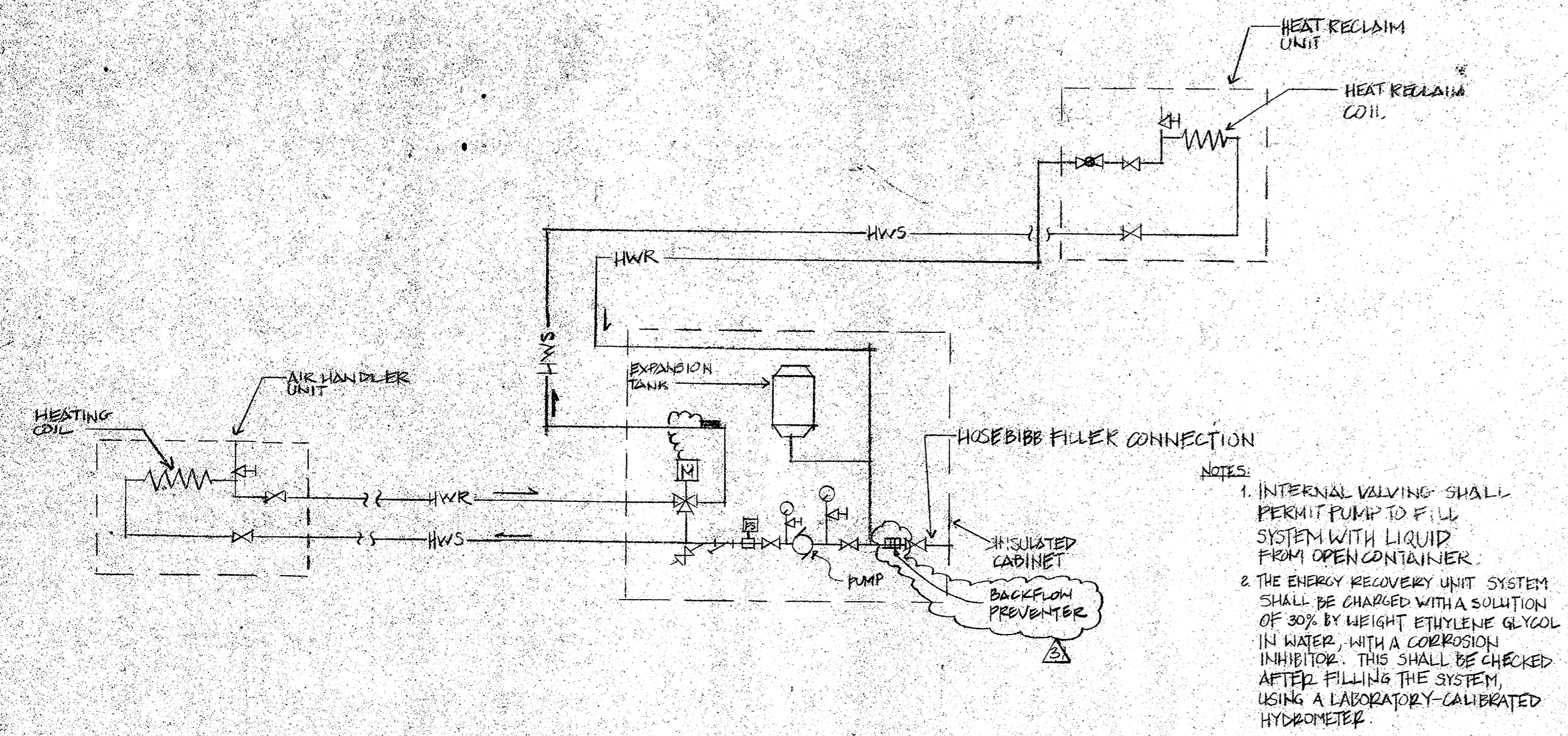
PHELPS HALL



PERMIT HEAT RECLAIM SYSTEM HEU-4 HAS BEEN SHOWN IN DOUBLE LINE FORM TO ILLUSTRATE THE INTENT OF THE DESIGN. ALL OTHER PERMIT HEAT RECLAIM SYSTEMS (HEU-3, HEU-5 THRU HEU-10) HAVE BEEN SHOWN IN SINGLE LINE FORM FOR CLARITY. FOR ALL PERMIT HEAT RECLAIM SYSTEMS (HEU-3 THRU HEU-10) INSTALL RETURN OUTDOOR TIGHT TO SLAB ABOVE, AND SUPPLY OUTDOOR TIGHT TO BOTTOM OF RETURN DUCT WORK. SYSTEM OUTDOOR AIR IS COMMON TO ALL PERMIT HEAT RECLAIM SYSTEMS HAS BEEN INDICATED ON SYSTEM HEU-4 ONLY.

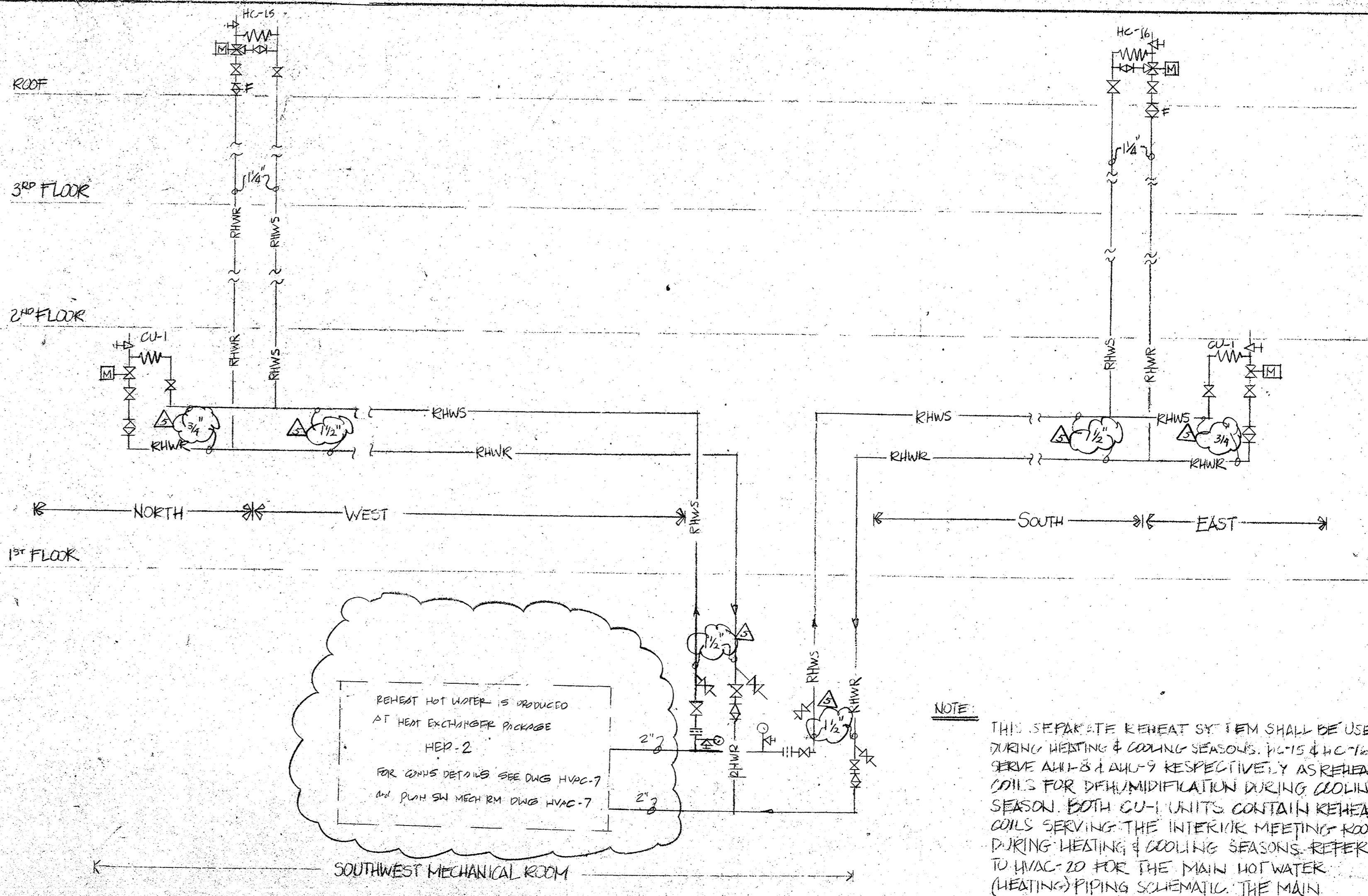
THIRD FLOOR PLAN - WEST  
 SCALE: 1/8" = 1'-0"

NOTE  
 HVAC contractor to provide layout for, provide, and set sleeves for all openings and items of his work passing through the concrete flat plates. Cooperate with GC to provide sleeves to meet his casting schedule. GC will relocate reinforcing to suit required locations of sleeves. ALL WORK MUST BE SLEEVED OR BOXED OUT. NO DRILLING OF CONCRETE SLABS (7 1/2" CONCRETE SLABS) WILL BE PERMITTED. Also provide box-outs for major openings in 1st and 2nd floor slabs.



1 TYPICAL ENERGY RECOVERY UNIT PIPING SCHEMATIC (ER-1&2)  
 NO SCALE

NOTES:  
 1. INTERNAL VALVING SHALL PERMIT PUMP TO FILL SYSTEM WITH LIQUID FROM OPEN CONTAINER.  
 2. THE ENERGY RECOVERY UNIT SYSTEM SHALL BE CHARGED WITH A SOLUTION OF 30% BY WEIGHT ETHYLENE GLYCOL IN WATER, WITH A CORROSION INHIBITOR. THIS SHALL BE CHECKED AFTER FILLING THE SYSTEM, USING A LABORATORY-CALIBRATED HYDROMETER.



REHEAT HOT WATER PIPING SCHEMATIC  
 NO SCALE

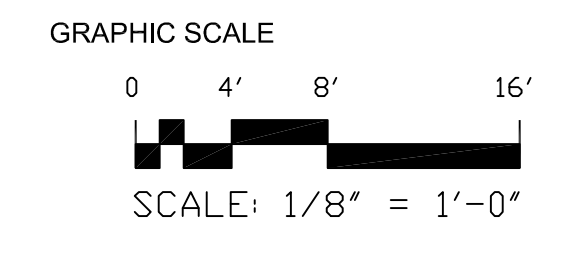
NOTE  
 THE SEPARATE REHEAT SYSTEM SHALL BE USED DURING HEATING & COOLING SEASONS. HC-10 TO SERVE AHS-3 & AHS-4 RESPECTIVELY AS REHEAT COILS FOR DEHUMIDIFICATION DURING COOLING SEASON. BOTH CU-1 UNITS CONTAIN REHEAT COILS SERVING THE INTERIM MEETING ROOMS DURING HEATING & COOLING SEASONS. REFER TO HVAC-20 FOR THE MAIN HOT WATER (HEATING) PIPING SCHEMATIC. THE MAIN HEATING SYSTEM SHALL BE USED DURING HEATING SEASON ONLY.

REVISIONED 4/23/90	DATE
REVISIONED TO DCA 12/21/89	DATE
PER APPROVAL #4	DATE
PER DCA COMMENTS 12/1/89	DATE
1 - GENERAL	DATE
NO. REVISION DATE	
DRAWING TITLE	
HVAC	
THIRD FLOOR - WEST	
DATE	
JUNE 30, 1989	
SCALE	
AS NOTED	
D.J.H.	
CHECKED	
DRAWING NUMBER	

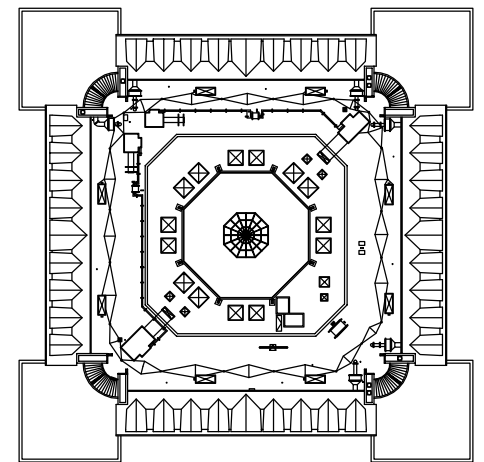
REV./ISSUE	DATE	BY	CHK	DESCRIPTION
0	12/09/09	DJK	EA	DCA/CONSTRUCTION

CONSULTANT

CONSULTANT



ORIENTATION / KEY PLAN




**PS&S**  
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ALL DIMENSIONS MUST BE VERIFIED BY THE CONTRACTOR. HISTORY PAULUS, SOKOLOWSKI AND SARTOR ENGINEERING, P.C. SHALL BE RESPONSIBLE FOR ANY CONFLICTS, OMISSIONS, AMBIGUITIES OR DISCREPANCIES IN THE CONTRACT DRAWINGS OR SPECIFICATIONS BEFORE PROCEEDING WITH CONSTRUCTION.  
ALL DIMENSIONS SHALL BE AS NOTED IN WORDS OR NUMBERS ON THE CONTRACT DRAWINGS OR NOT EQUAL TO THE DIMENSIONS INDICATED.  
THESE CONTRACT DRAWINGS CONTAIN DATA INTENDED SPECIFICALLY FOR THIS PROJECT AND SHALL BE USED ONLY FOR THE PROJECT OR FOR REUSE OR ANY OTHER PROJECT.  
THE CONTENT AND IMPORTANCE OF THIS DOCUMENT OR ANY PART THEREOF SHALL BE PRESERVED BY THE CONTRACTOR FOR THE CLIENT'S RECORD.  
UNDER THESE DRAWINGS ARE SPECIFICALLY DESIGNATED AS "CONSTRUCTION RESIST" THESE DIMENSIONS SHALL BE USED FOR CONSTRUCTION OF APPROVED CONTRACT DOCUMENTS.  
CONTRACTOR SHALL NOTIFY THE CLIENT IMMEDIATELY UPON DETECTION OF ANY DISCREPANCY.  
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**NANDITA G. KAMDAR**  
PROFESSIONAL ENGINEER  
NJ LIC. NO. 41363

SIGNATURE DATE  
CLIENT



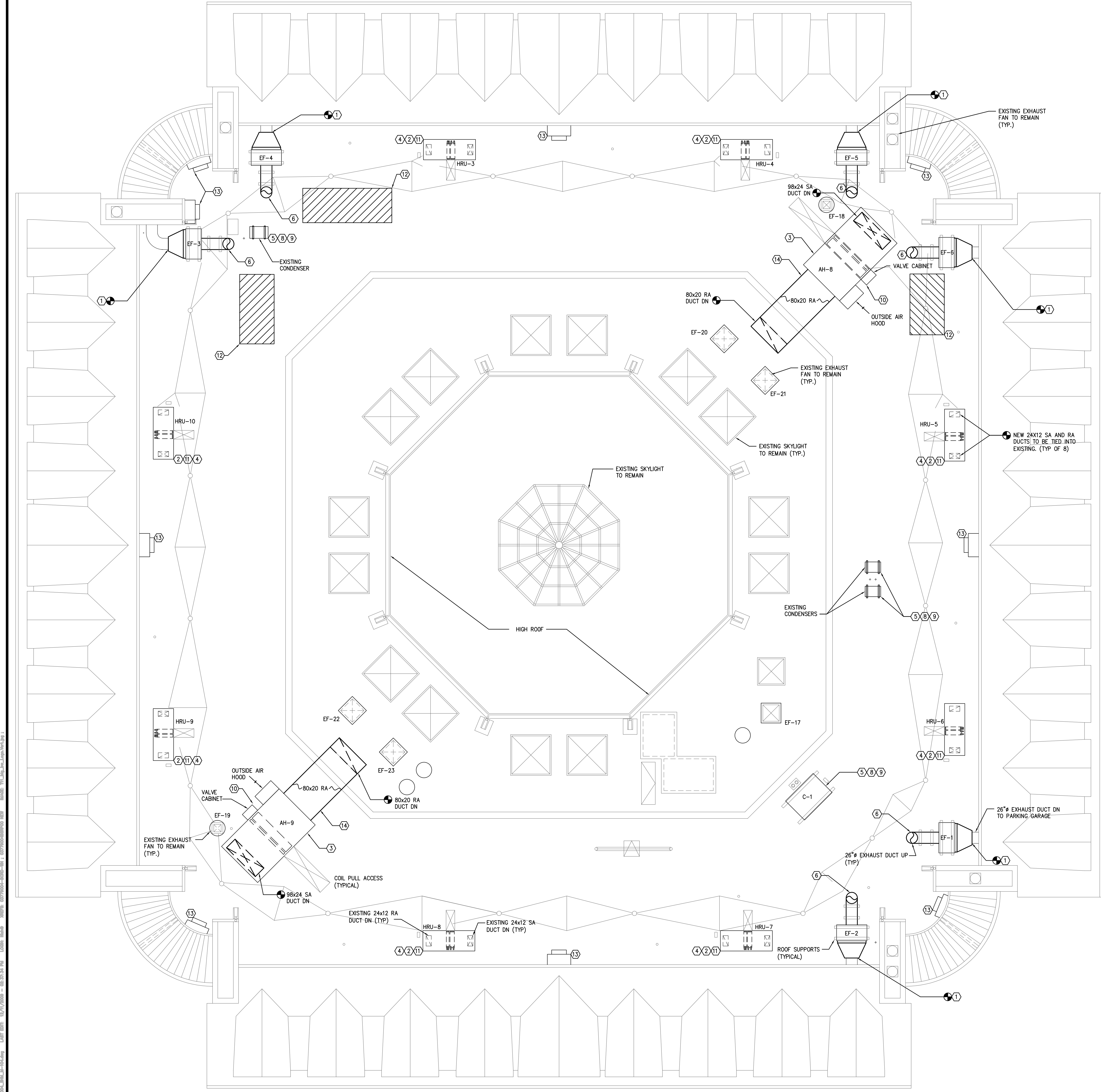
The College of New Jersey

PROJECT  
**EICKHOFF HALL**  
HVAC AND ROOF MODIFICATIONS

EWING, NEW JERSEY  
SHEET TITLE  
**MECHANICAL ROOF PLAN**

JOB NO.: 03779.004  
DATE: 08/21/2009  
DRAWN: DJK  
CHECK: EA  
SCALE: AS NOTED

BINDING ORDER:  
SHEET 14 OF 22  
SHEET NO. **M-104**



**GENERAL NOTES:**

- REFER TO ARCHITECTURAL DRAWINGS FOR ROOF CURB, PIPING PENETRATIONS AND FLASHING DETAILS.
- CONTRACTOR SHALL TAKE WATER AND AIR FLOW READINGS AT ALL MAIN BRANCHES OF EXISTING HEATING HOT WATER, CHILLED WATER, AH, HRU AND EF SYSTEMS TO SERVE AS A BASELINE. PROVIDE RECORD OF READINGS TO OWNER PRIOR TO ANY CONSTRUCTION ACTIVITIES. RE-BALANCE FLOWS TO THESE SYSTEMS AFTER THE CONSTRUCTION IS COMPLETE TO MATCH THE READINGS TAKEN PRIOR TO ANY CONSTRUCTION ACTIVITIES. PROVIDE RECORD OF READINGS AFTER CONSTRUCTION TO OWNER.
- RUN CONDENSATE PIPING TO NEAREST ROOF DRAIN.

**KEYED NOTES:**

- LOCATE NEW GARAGE EXHAUST FANS AT EXISTING ROOF CURBS LOCATIONS. PROVIDE ROOF CURBS. TIE FAN INTO EXISTING 26" EXHAUST DUCT AT WALL.
- LOCATE NEW HEAT RECOVERY UNITS AT PREVIOUS LOCATIONS. THE UNIT INTO EXISTING CAPPED CHW AND HW PIPING AT SLABS. MODIFY EXISTING SUPPLY AND RETURN DUCTWORK. NEW INSULATED ROOF CURBS SHALL BE 18" MINIMUM HIGH. COORDINATE WITH ARCHITECTURAL DRAWINGS. NEW HRU'S SHALL BE CONNECTED TO EXISTING CAMPUS WIDE BAS.
- LOCATE NEW UNITS AH-8 & AH-9 AT PREVIOUS LOCATIONS. TIE UNITS INTO EXISTING CAPPED CHW, HHW & RW AT SLABS. ALLOW MODIFY EXISTING SUPPLY AND RETURN DUCTWORK. PROVIDE NEW 18" INSULATED ROOF CURBS. COORDINATE WITH ARCHITECTURAL DRAWINGS. NEW AHU'S SHALL BE CONNECTED TO EXISTING CAMPUS WIDE BAS.
- PROVIDE NEW DUCTWORK INSULATION ON EXISTING SUPPLY AND RETURN DUCTS CONNECTING TO HRU-3 THROUGH HRU-10.
- WHEN RE-ROOFING IS COMPLETE, REINSTALL EQUIPMENT AND RESTORE TO WORKING ORDER. EXTEND EXISTING PIPING, INSULATION, CONDUIT, ELECTRICAL AND CONTROLS WIRING.
- TERMINATE NEW EXHAUST DUCT STACK SIMILAR IN HEIGHT AND CONFIGURATION TO EXISTING. ENSURE EXHAUST VENT IS MIN 10'-0" AWAY FROM ANY OUTSIDE AIR INTAKE.
- RECONNECT POWER FEEDS TO UNITS BEING REPLACED. RE-USE EXISTING CIRCUITS AND ASSOCIATED ELECTRICAL COMPONENTS.
- PROVIDE NEW 18" MINIMUM HIGH ROOF CURBS FOR THIS EQUIPMENT.
- REUSE ALL RECLAIMED REFRIGERANT FOR ANY REFRIGERANT EQUIPMENT TEMPORARILY REMOVED FROM ROOF AND REINSTALLED.
- PROVIDE NEW 3" HHW AND 5" CHW VALVES FOR AH-8 AND AH-9 INSIDE VALVE CABINET.
- CONTRACTOR SHALL MODIFY EXISTING HRU PIPING AS REQUIRED TO TIE INTO NEW HRUS 3-10. PIPING CONNECTIONS SHALL BE WITHIN NEW ROOF CURBS AS PER EXISTING.
- COORDINATE WITH CONNOR ARCHITECTURE/FELLENZER ENGINEERING DRAWING H1.3 FOR ADDITIONAL NEW ROOF EQUIPMENT PROVIDED BY OTHERS UNDER SEPARATE CONTRACT.
- REMOVE AND REPLACE EXISTING EQUIPMENT LOCATED ON PARAPET WALL IN COORDINATION WITH THE REMOVAL AND REPLACEMENT OF THE EXISTING PARAPET SIDING.
- CONTROLS CONTRACTOR TO FURNISH AND INSTALL NEW DUCT SMOKE DETECTOR.

1 ROOF MECHANICAL PLAN  
M-104 SCALE: 1/8"=1'-0"

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