

RE. GRIESEMER ASBUILTS

addition to and renovation of

LAWRENCE CENTRAL HIGH SCHOOL

for the

METROPOLITAN SCHOOL DISTRICT of LAWRENCE TOWNSHIP

INDIANAPOLIS, INDIANA

These drawings are hereby approved and adopted
 this 18th day of December, 1989,
 by the board of education, the superintendent of schools,
 the assistant superintendent for business and operations,
 and the director of business
 of the metropolitan school district of lawrence township

ADMINISTRATION

Percy Clark, Jr.
 Dr. Percy Clark, Jr.
 SUPERINTENDENT

Edward M. Williams
 Dr. Edward M. Williams
 ASSISTANT SUPERINTENDENT
 FOR BUSINESS AND OPERATIONS

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 Mr. Pearson L. Miller
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 Mr. Dannie L. Smith
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Kathryn S. Poole
 Mrs. Kathryn S. Poole
 MEMBER

Approved and adopted this 6th day
 of February, 1990, by the Lawrence
 Central High School Building Corporation
 for the Metropolitan School
 District of Lawrence Township,
 Indianapolis, Indiana

Mary Bolles
 Mary Bolles
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Ann Mercho
 Ann Mercho
 VICE PRESIDENT

Diann Lasher
 Diann Lasher
 SECRETARY

"AS BUILT"
 DRAWINGS
 PER
 R.A. GRIESEMER
 (MECH. CONTRACTOR)



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ADDITION TO and RENOVATION OF
LAWRENCE CENTRAL HIGH SCHOOL
 for the METROPOLITAN SCHOOL DISTRICT of LAWRENCE TOWNSHIP
 MARION COUNTY, INDIANA

EVERETT I. EDGEMAN Company
 Architects & Engineers
 950 NORTH MEDIAN STREET
 INDIANAPOLIS, INDIANA 46204
 (317) 237-1000



PROJECT
 871-110
 DATE
 DEC. 18, 1985
 REVISION

NO. OF

MECHANICAL LEGEND

Table with 3 columns: NAME, SYMBOL, ABBREVIATION. Lists various mechanical components like HEATING SYSTEM WATER SUPPLY, PIPING, VALVES, and DUCTS with their respective symbols and abbreviations.

FLOOR DRAIN SCHEDULE

Table with 5 columns: TYPE, JAY R. SMITH, WADE, GENERAL LOCATION, SEE NOTE. Lists floor drain types and specifications for various rooms.

NOTES:

- List of 7 notes providing additional specifications and instructions for floor drains, including material requirements and installation details.

PLUMBING FIXTURE SCHEDULE

Table with 7 columns: ITEM, FIXTURE, WASTE, VENT, C.W., H.W., FIXTURE MOUNTING HEIGHT, SEE NOTE. Lists plumbing fixtures like water closets, lavatories, and sinks with their waste and vent specifications.

CONTRACT #3: Sheets M0-1:

A. Add P-28 to Plumbing Fixture Schedule. Drinking Fountain-Cuspidor Combination 1-1/2" waste, 1-1/2" vent, 1/2" cold water mounting height, 40" to spout.

NOTES:

- List of 7 notes providing additional specifications and instructions for plumbing fixtures, including branch sizes and material requirements.

GENERAL NOTES

(APPLY TO ALL SHEETS)

- List of 22 general notes covering work shown, building surfaces, pipe runs, valves, and ductwork requirements.

UNIT HEATER SCHEDULE

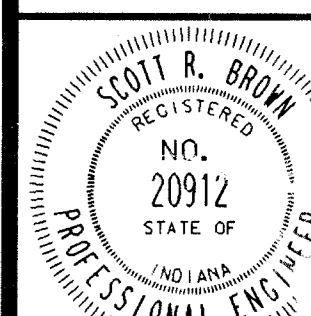
Table with 10 columns: NO., ROOM SERVED, TRANE MODEL NO., TYPE AND ARRANGEMENT, MBH, GPM, RPM, HP, CFM STANDARD AIR, SEE NOTE. Lists unit heaters for various rooms.

NOTES:

- List of 2 notes regarding heating capacities and motor specifications.

ADDITION TO and RENOVATION OF LAWRENCE CENTRAL HIGH SCHOOL for the METROPOLITAN SCHOOL DISTRICT of LAWRENCE TOWNSHIP MARION COUNTY, INDIANA

EVERETT I. BROWN Company Architects & Engineers 950 NORTH MERIDIAN STREET INDIANAPOLIS, IND. 46204 (317) 231-1800



PROJECT 871-110 DATE DEC. 18, 1989 REVISED

CONVECTOR SCHEDULE (CV) table with columns: NO., ROOM SERVED, TRANE MODEL NUMBER, DEPTH, LENGTH, HEIGHT, M. B. H., WALL RECESS DEPTH, SEE NOTE. Contains data for rooms A1-A16, B1-B16, C1-C16, D1-D16, E1-E3, G1-G3, J1-J14, K1-K6, L1-L6.

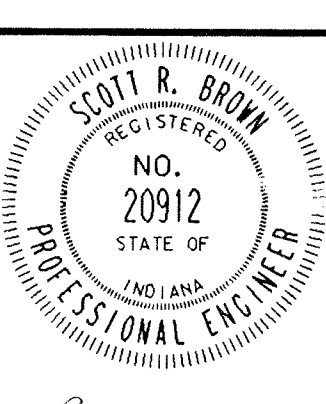
CONVECTOR SCHEDULE (CONTINUED) table with columns: NO., ROOM SERVED, TRANE MODEL NUMBER, DEPTH, LENGTH, HEIGHT, M. B. H., WALL RECESS DEPTH, SEE NOTE. Contains data for rooms M1-M21, P1-P21, Q1-Q26, R1-R3, and includes a NOTES section and a table for unit 'R' with columns: No., Room Served, Trane Model, Depth, Height, MBH.

CABINET HEATER SCHEDULE (CH) table with columns: NO., ROOM SERVED, TRANE MODEL NUMBER, TYPE AND ARRANGEMENT, MBH, FAN SPEED RPM, WATER RATE GPM, POWER CIRCUIT, CFM STANDARD AIR, WALL RECESS DEPTH, SEE NOTE. Contains data for rooms A1-A5, B1, C1-C3, D1-D5, H1-H2, J1-J2, N1, P1-P12, Q1-Q9, R1-R9. Includes a table for unit 'R' with columns: No., R-1, R-2, R-3, R-4, R-5, Room Served, Trane Model, Type & Arrangement, MBH, Fan Speed RPM, Water Rate GPM, CFM, See Note.

94. CONTRACT #3: ADD 2 Sheet MO-5:

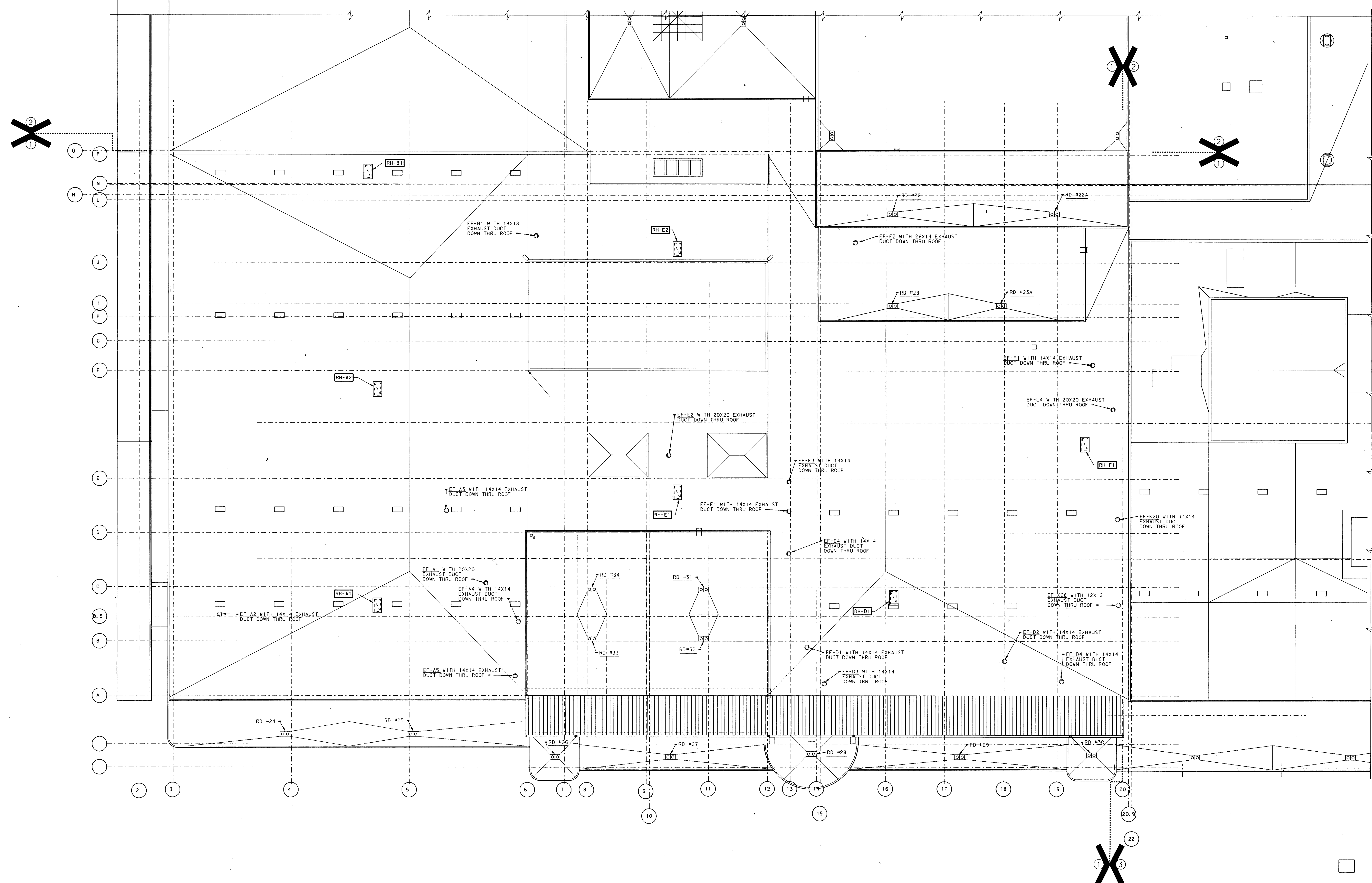
- A. In the Cabinet Heater Schedule, revise Unit "R" cabinet heaters as follows:
- B. Delete R-6 and R-7.
- C. In Section A-A, revise 30" round for AHU-4 to read "28 round for AHU-4".
- D. Add Reference Note 29 to Unit Heaters UH-D1 and UH-D2.
- E. Add Reference Note 14 to Air Handling Units 1 and 4 heating and cooling locations.
- F. Delete reference to 76" x 46" Return Air Duct size to AHU-1 by Column Line B.
- G. In Section B-B, delete reference to 76" x 46" duct size and insert 72" x 42". Delete AHU-1 from section.
- H. Thermostat to UH-D1 to be located on Column 'B'. Thermostat to UH-D2 to be located on Column '10B'. Install thermostats 5'-6" above the finished floor. Delete Note referencing thermostat locations adjacent to unit heaters.
- I. In Section "B"-B, add Fire Damper in 38" x 100" Return Air Duct.
- J. In Section "E"-E, add Fire Damper in 20" x 68" Return Air Duct.

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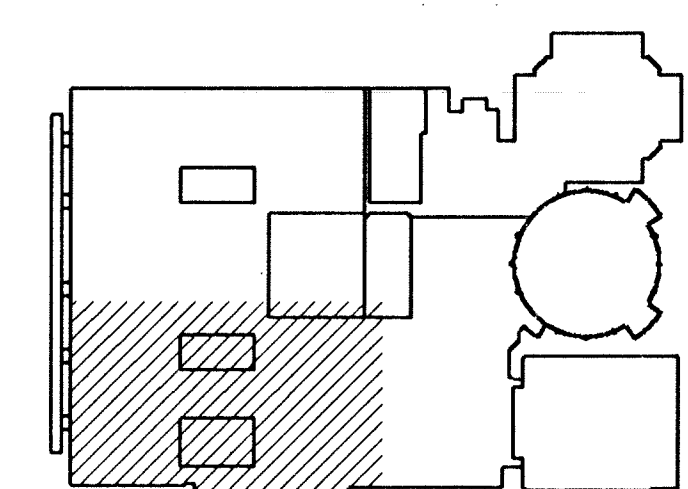
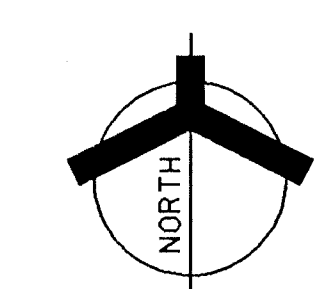
PROJECT 871-110 DATE DEC. 18, 1989 REVISED

PLAN NOTES:
 ① SEE SHEETS M0-1 THRU M0-5 FOR GENERAL NOTES, LEGEND, AND SCHEDULES.



MECHANICAL PARTIAL ROOF PLAN # 1

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

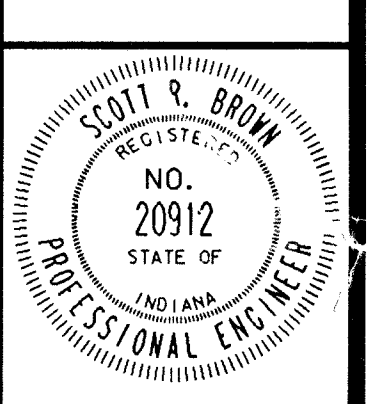


KEY PLAN
NO SCALE

LOG: ROOM #403
 REF: FILE: L040403.DWG
 LEVEL: 1,10,11
 LOG: ROOM #103
 REF: FILE: L040403.DWG
 LEVEL: 1,10,11
 LOG: ROOM #104
 REF: FILE: L040403.DWG
 LEVEL: 1,10,11
 LOG: ROOM #105
 REF: FILE: L040403.DWG
 LEVEL: 1,10,11

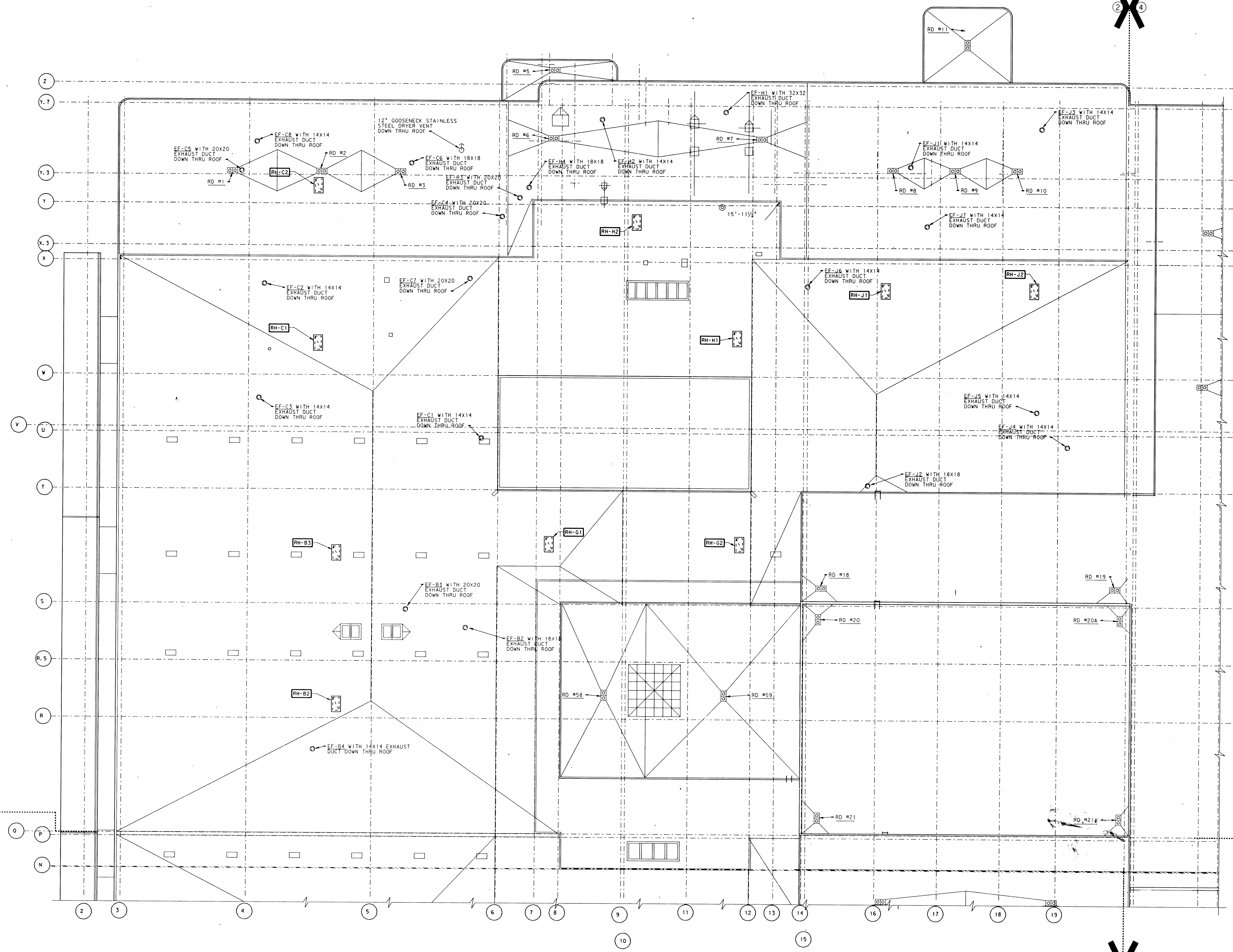
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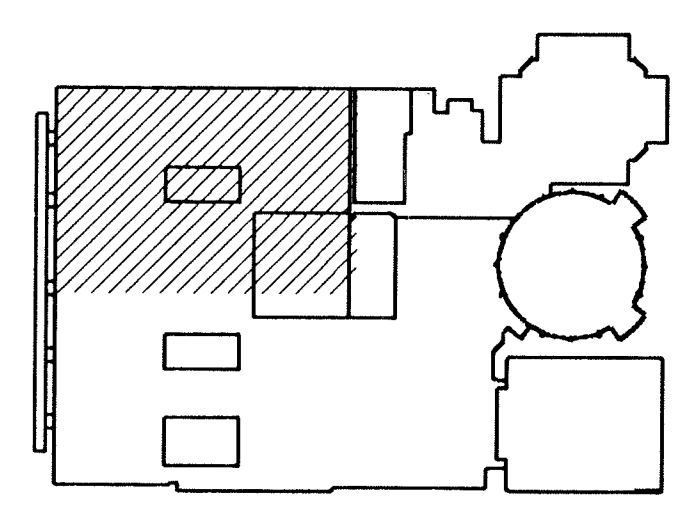


PROJECT
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 DEC. 18, 1989
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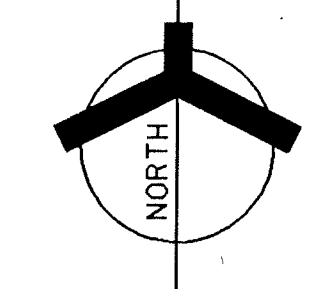
PLAN NOTES:
 ① SEE SHEETS M0-1 THRU M0-5 FOR GENERAL NOTES, LEGEND, AND SCHEDULES.



MECHANICAL PARTIAL ROOF PLAN # 2
 SCALE: 1/16" = 1'-0"



KEY PLAN
 NOT TO SCALE



CONTRACT #4: Sheet M2-2:
 A. Locate Exhaust Fan B-5 on roof 15'-6" west of Column Line 6 and 19'-6" south of Column Line 5. Add the following Reference Note:
 "EF-B5 with 20' x 20' Exhaust Duct down thru roof."

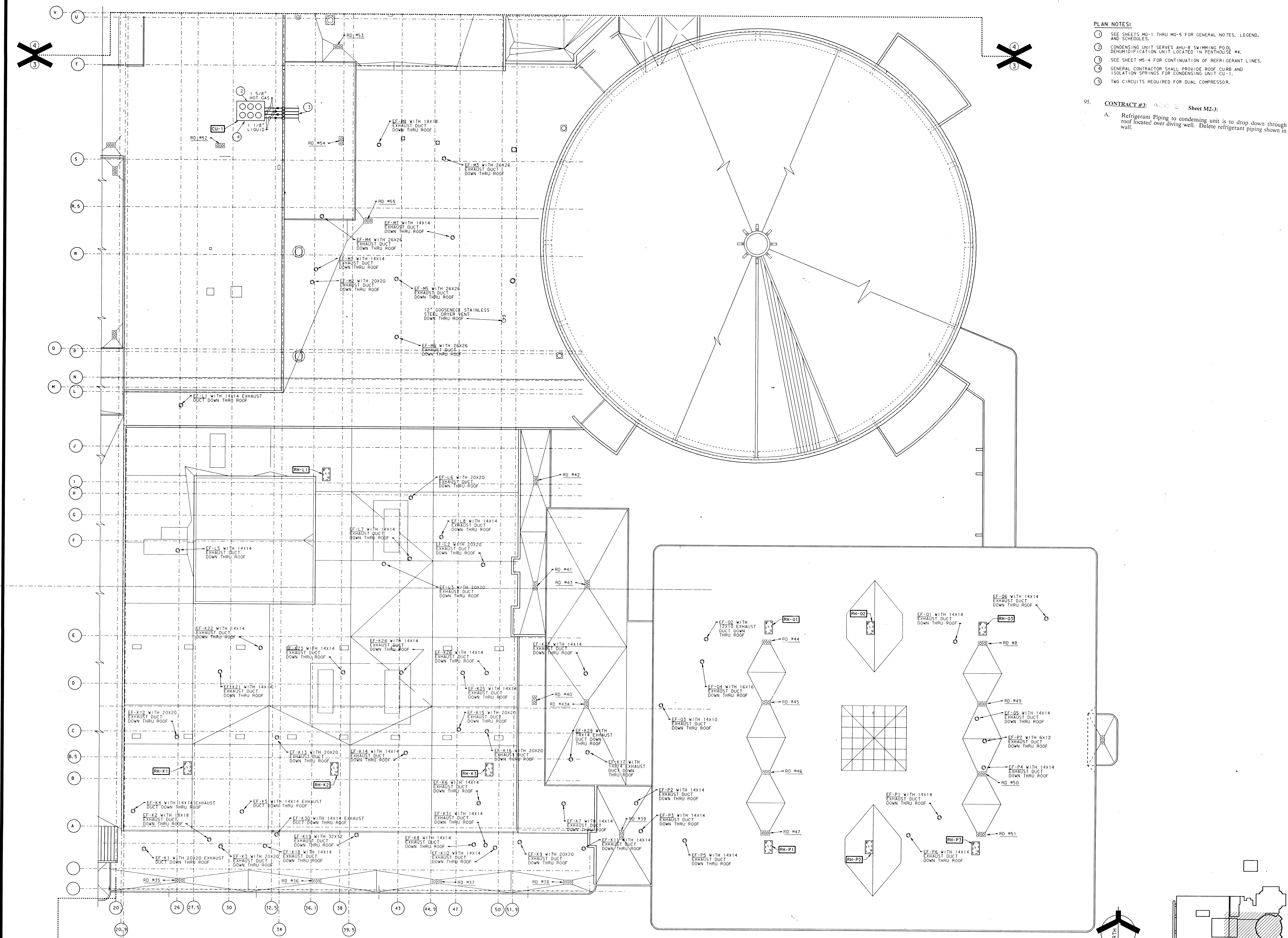
LOG NAME: 15-10-88-46-1989
 DATE: 12/18/88
 LEVELS: 1-15, 15-16, 15-17, 15-18, 15-19, 15-20, 15-21, 15-22, 15-23, 15-24, 15-25, 15-26, 15-27

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 (317) 521-1000



PROJECT: 871-110
 DATE: DEC. 18, 1989
 REVISED:



- PLAN NOTES:**
- 1 SEE SHEETS M0-1 THRU M0-5 FOR GENERAL NOTES, LEGEND, AND SCHEDULES.
 - 2 CONDENSING UNIT SERVES AMU-8 SWIMMING POOL DEHUMIDIFICATION UNIT LOCATED IN PENTHOUSE #4.
 - 3 SEE SHEET M5-4 FOR CONTINUATION OF REFRIGERANT LINES.
 - 4 GENERAL CONTRACTOR SHALL PROVIDE ROOF CURB AND ISOLATION SPRINGS FOR CONDENSING UNIT CU-1.
 - 5 TWO CIRCUITS REQUIRED FOR DUAL COMPRESSOR.

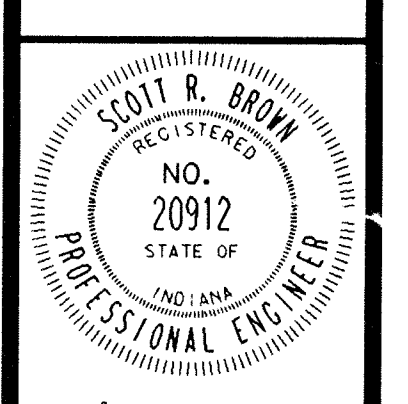
95. **CONTRACT #3:** 0002 Sheet M2-3:
 A. Refrigerant Piping to condensing unit is to drop down through roof located over diving well. Delete refrigerant piping shown in wall.

REF. 1110 CARPENTRY, DON
 LEVELS 1-10, 11-14, 15
 LOG. NAME: M2
 REF. 1110 CARPENTRY, DON
 LEVELS 1-10, 11-14, 15
 LOG. NAME: M2
 REF. 1110 CARPENTRY, DON
 LEVELS 1-10, 11-14, 15
 LOG. NAME: M2
 REF. 1110 CARPENTRY, DON
 LEVELS 1-10, 11-14, 15
 LOG. NAME: M2

UNIT "C" MECHANICAL ROOF PLAN
 SCALE: 1/16" = 1'-0"

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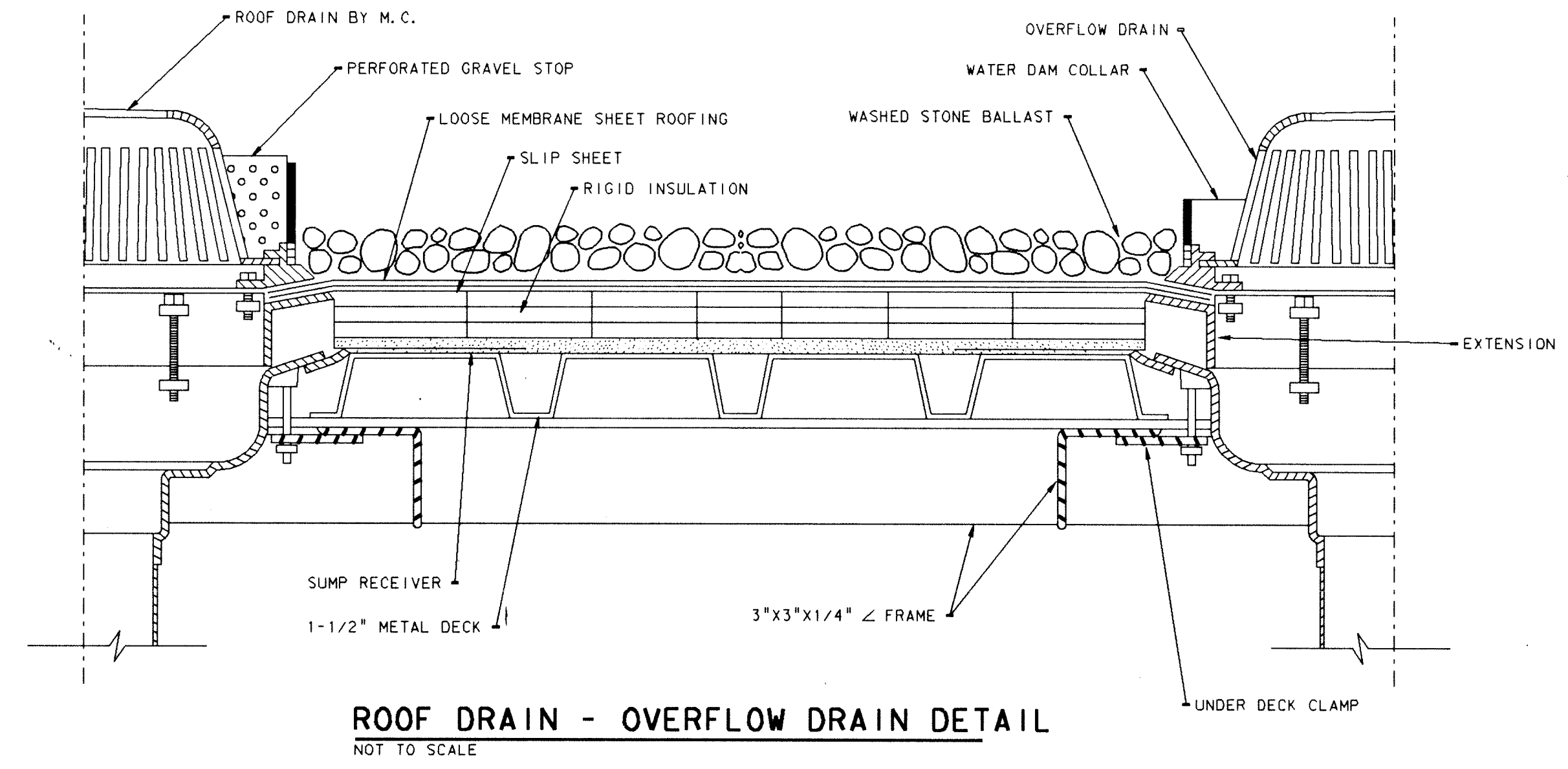
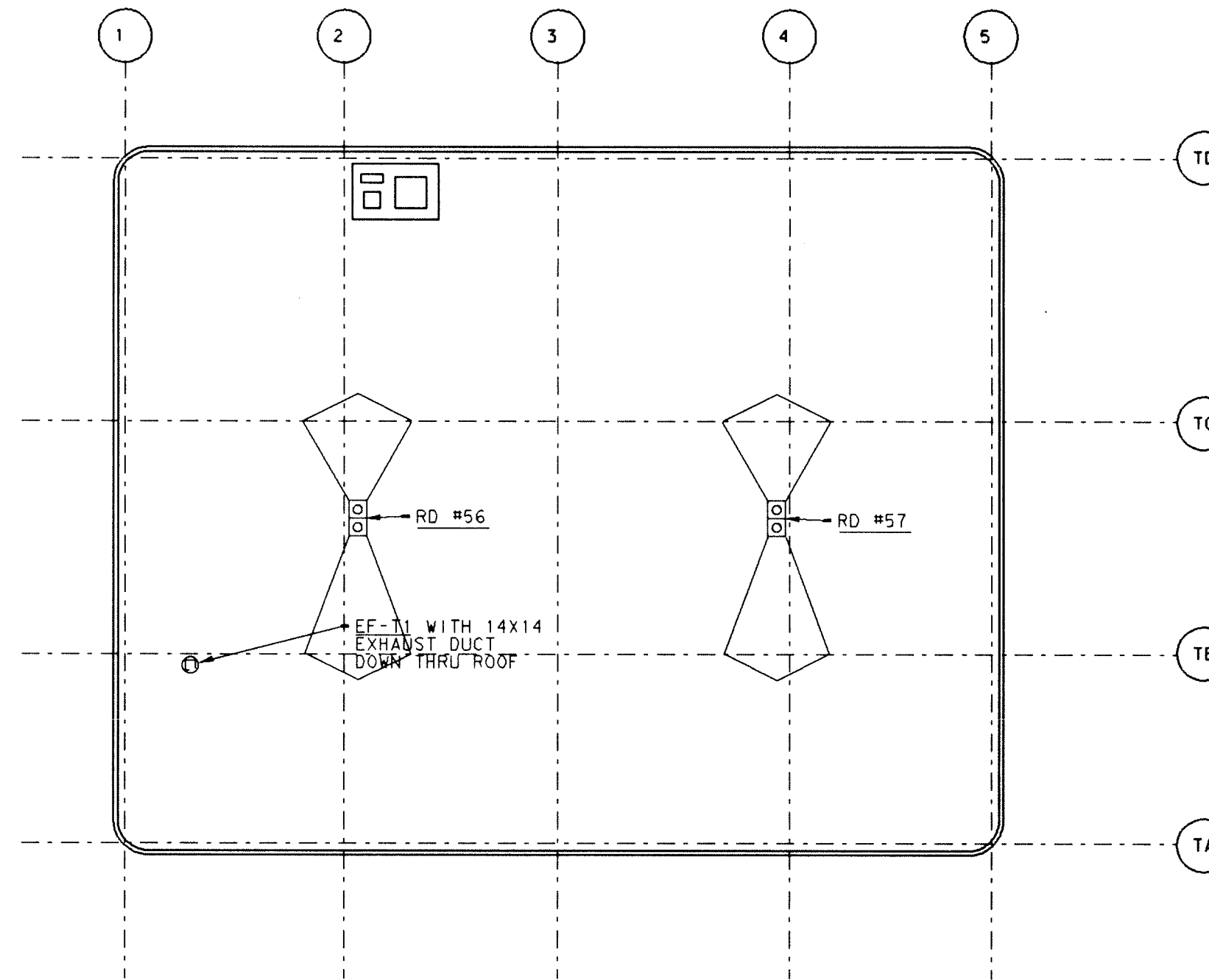
ROOF DRAIN SCHEDULE				
ROOF DRAIN NUMBER	SIZE	J. R. SMITH	JOSAM	WADE
RD #2, 5, 9, 11, 14, 15, 16, 16A, 17, 17A, 22, 22A, 23, 23A, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 43A, 44, 45, 46, 47, 48, 49, 50, 51, 52, 56, 55, 57	4"	1010	2150	3500
RD #1, 3, 6, 7, 8, 10, 12, 13, 18, 19, 20, 20A, 21, 21A, 23, 43A, 44, 45, 46, 47, 48, 49, 50, 51, 52, 56, 55, 57	6"	1010	2150	3500
58 & 59 G COVER YARD OVERFLOW DRAINS	5"	1080	----	----

ROOF PLAN NOTES

- ALL VENTS NOT OTHERWISE NOTED ARE 3" PLUMBING VENTS.
- PROVIDE DECK CLAMPS FOR ALL ROOF DRAINS INSTALLED IN METAL DECK, PRECAST CONCRETE, OR SIMILAR ROOF CONSTRUCTION.
- NO ROOF DRAIN SHALL BE SET WITHOUT PRIOR CONSULTATION WITH THE ARCHITECT'S FIELD REPRESENTATIVE. IN GENERAL, ALL ROOF DRAINS SHALL BE SET ON THE STRUCTURAL DECK AND NOT ON THE ROOF INSULATION.
- ALL WORK SHOWN ON THIS SHEET IS BY MECHANICAL TRADES UNLESS OTHERWISE NOTED.

CONTRACT #3: Sheets M2-4:

A. Add 6" RD #58, #59, #60, and #61 to Roof Drain Schedule.



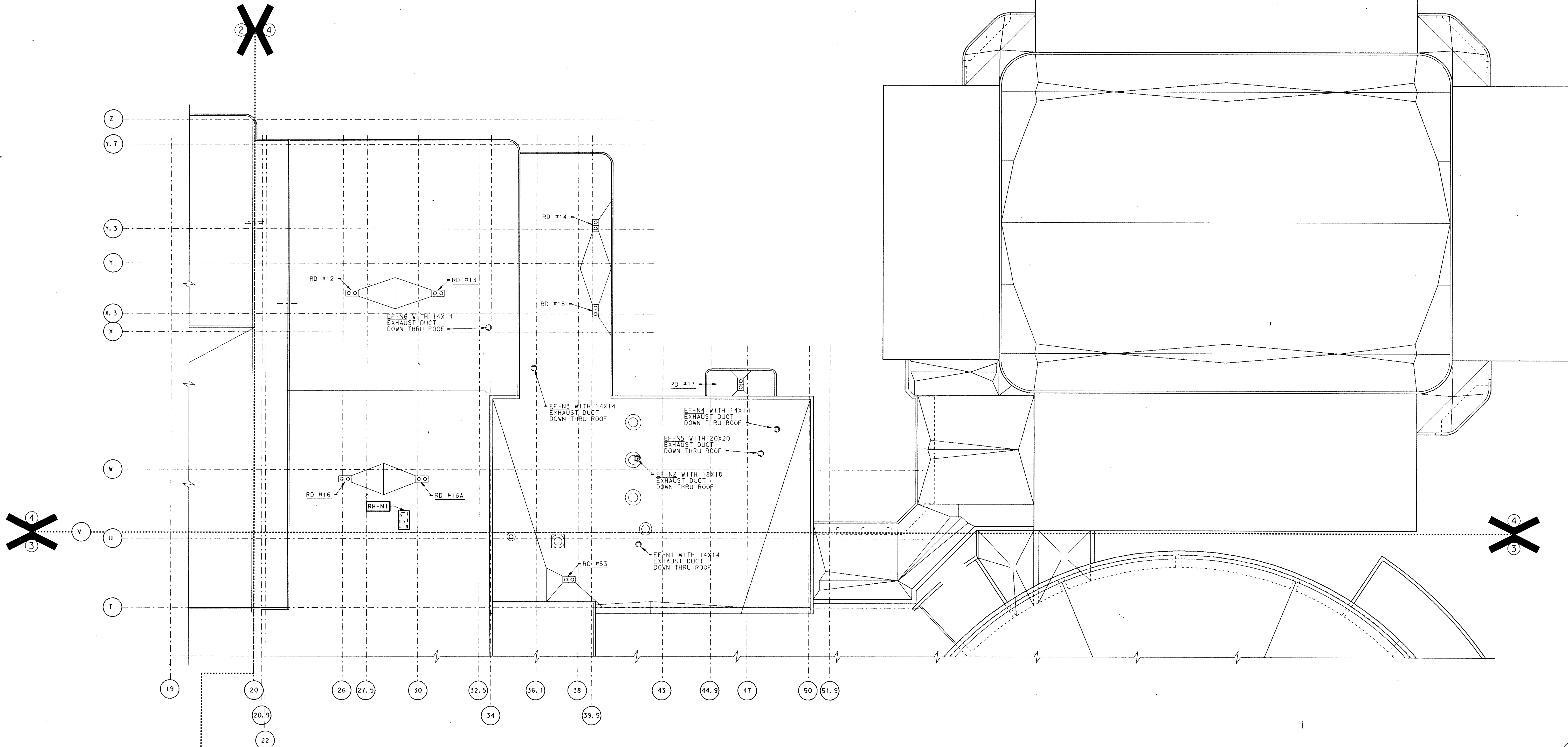
ROOF DRAIN - OVERFLOW DRAIN DETAIL
NOT TO SCALE

PLAN NOTES:

- SEE SHEETS M0-1 THRU M0-5 FOR GENERAL NOTES, LEGEND AND SCHEDULES.

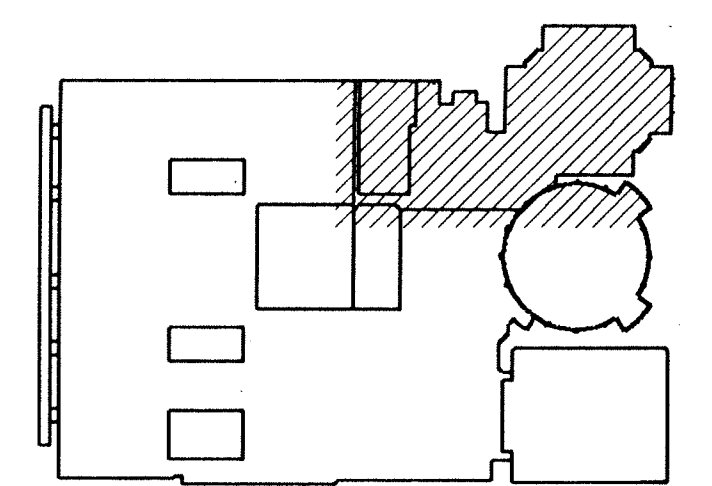
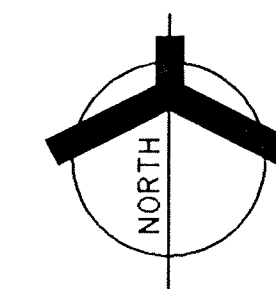
UNIT "T" MECHANICAL ROOF PLAN

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



MECHANICAL PARTIAL ROOF PLAN # 4

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



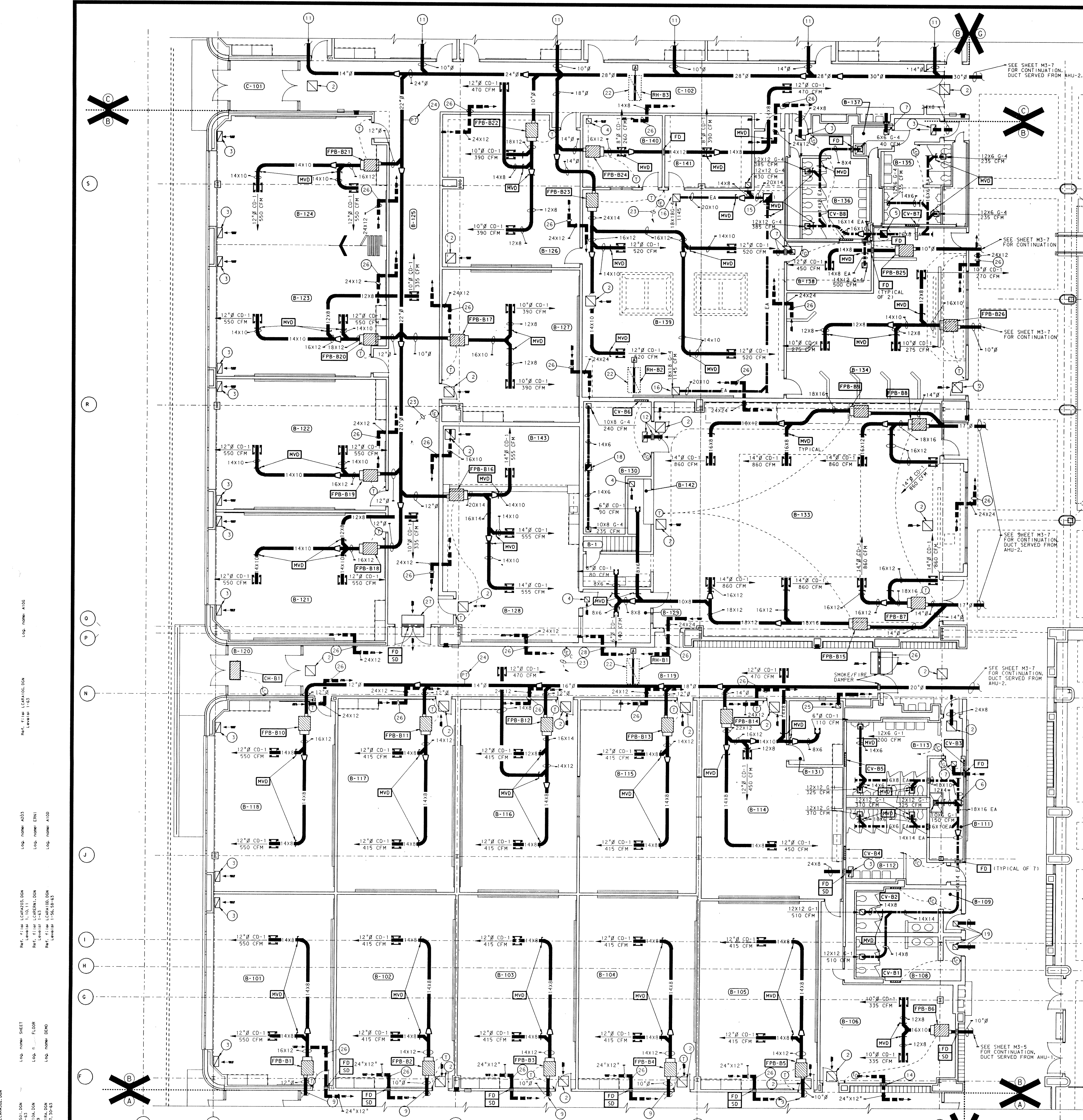
KEY PLAN
NOT TO SCALE

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 (317) 237-7000



PROJECT: 871-110
DATE: DEC. 18, 1989
REVISED:



UNIT "B" HEATING, VENTILATING AND AIR CONDITIONING FLOOR PLAN
 SCALE: 1/8" = 1'-0"

PLAN NOTES:

- 1 SEE SHEET M0-1 THRU M0-5 FOR GENERAL NOTES, LEGEND AND SCHEDULES.
- 2 24"x24" G-1 RETURN AIR GRILLE WITH FIRE DAMPER.
- 3 24"x12" G-2 RETURN AIR GRILLE WITH FIRE DAMPER.
- 4 12"x12" G-3 RETURN AIR GRILLE WITH FIRE DAMPER.
- 5 18"x18" EXHAUST DUCT UP TO EF-B1.
- 6 18"x18" EXHAUST DUCT UP TO EF-B2.
- 7 12"x12" G-4 TRANSFER GRILLE CONNECTED TO 14"x8" TRANSFER DUCT WITH FIRE DAMPER.
- 8 ALL GRILLES, REGISTERS AND DIFFUSERS PENETRATING THE CEILING SHALL BE PROTECTED WITH RADIATION DAMPERS AND THERMAL INSULATING BLANKETS.
- 9 SEE SHEET M3-1 FOR CONTINUATION.
- 10 SEE SHEET M3-5 FOR CONTINUATION.
- 11 SEE SHEET M3-3 FOR CONTINUATION.
- 12 24"x12" G-4 TRANSFER GRILLE CONNECTED TO 24"x8" TRANSFER DUCT WITH FIRE DAMPER.
- 13 SEE SHEET M7-2 FOR PIPING PLANS.
- 14 16"x12" TRANSFER DUCT WITH FIRE AND SMOKE DAMPER.
- 15 20"x20" ROOF OPENING UP TO EF-B3.
- 16 18"x18" G-4 EXHAUST GRILLE WITH FIRE DAMPER.
- 17 12"x12" G-4 EXHAUST GRILLE WITH FIRE DAMPER.
- 18 14"x14" ROOF OPENING UP TO EF-B4.
- 19 12"x12" G-4 TRANSFER GRILLE CONNECTED TO 14"x8" TRANSFER DUCT.
- 20 ALL DUCT SIZES SHOWN ARE CLEAR OPENING AREA DIMENSIONS. SHEET METAL CONTRACTOR SHALL FABRICATE LINED DUCT TO MAINTAIN CLEAR DIMENSIONS.
- 21 ALL LOW VELOCITY SUPPLY DUCTS SHALL BE LINED WITH 1" THICK, 1/2 POUND DENSITY ACOUSTICAL INSULATION.
- 22 NEW RELIEF HOOD ON ROOF. SEE SCHEDULE ON SHEET M0-3 FOR THROAT SIZE. AUTOMATIC DAMPER BY T.C.C.
- 23 TEMPERATURE ELEMENT TO DDC SYSTEM.
- 24 END OF RUN DUCT PRESSURE TRANSMITTER TO AHU #2
- 25 12"x12" G-3 TRANSFER GRILLE CONNECTED TO 14"x8" TRANSFER DUCT.
- 26 TRANSFER "T" DUCT. SEE TYPICAL RETURN AIR DETAIL ON SHEET M6-2.
- 27 48"x30" TRANSFER DUCT WITH SMOKE AND FIRE DAMPER.
- 28 14"x8" TRANSFER "T" DUCT. SEE TYPICAL RETURN AIR DETAIL ON SHEET M6-2.

CONTRACT #4: Sheet M3-2:

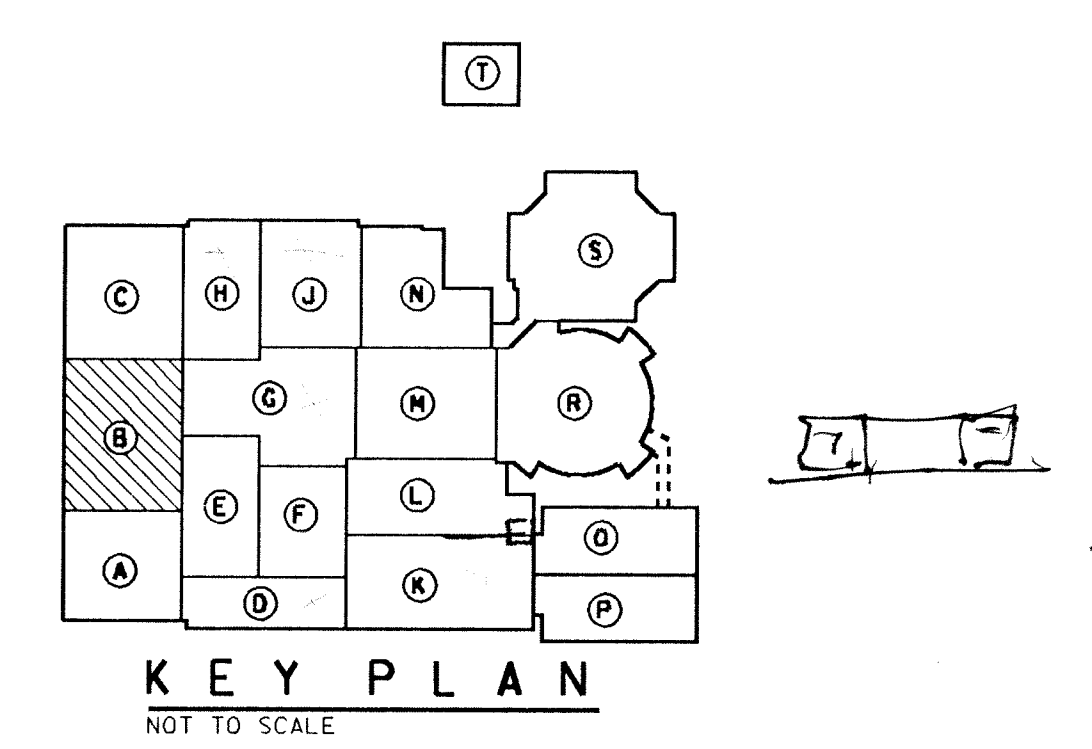
- A. Revise Note 24 to read as follows: "End of duct run pressure transmitter to AHU #2".
- B. Add the Following to Note 22: "Relief hood to be provided and installed by Roofing Contractor."
- C. In Corridor B-119, the transfer duct located over the smoke and fire doors should have a reference Note 27 in lieu of 26.
- D. In Room B-130 Storage, add manual volume dampers in each 14" x 6" exhaust duct as close as possible to roof duct penetration.
- E. In Corridor C-102, provide 60" x 36" transfer air duct opening above ceiling and over Corridor doors located 4'-0" west of column line 6.

CONTRACTS #4, #5: Sheet M3-2:

- A. In Room B-138 Storage/Kin, add new Exhaust Fan EF-B5, which serves the Paint Spray Booth. Provide a 12 inch round exhaust duct from Paint Spray Booth up to EF-B5. Transition 12 inch round duct to 20 inch square opening prior to penetrating roof. The Paint Spray Booth is located in the southeast corner of the room. Provide Volume Damper in 12 inch round exhaust duct. Interlock Exhaust Fan to manual start-stop switch provided with the Spray Booth.

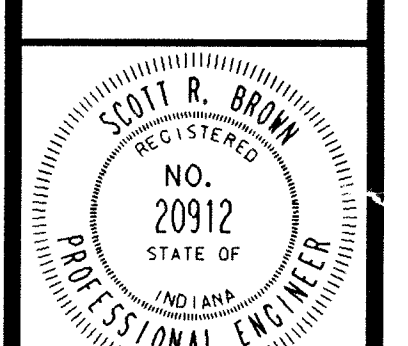
ROOM NAME SCHEDULE

NO	NAME
B-101	CLASSROOM
B-102	CLASSROOM
B-103	CLASSROOM
B-104	CLASSROOM
B-105	CLASSROOM
B-106	STORAGE
B-107	NOT USED
B-108	MEN
B-109	WOMEN
B-110	NOT USED
B-111	CUSTODIAN
B-112	GIRLS
B-113	BOYS
B-114	OFFICE
B-115	CLASSROOM
B-116	CLASSROOM
B-117	CLASSROOM
B-118	CLASSROOM
B-119	CORRIDOR
B-120	VESTIBULE
B-121	CLASSROOM
B-122	CLASSROOM
B-123	CLASSROOM
B-124	CLASSROOM
B-125	CORRIDOR
B-126	CLASSROOM
B-127	CLASSROOM
B-128	CLASSROOM
B-129	OFFICE
B-130	STORAGE
B-131	OFFICE
B-132	EQUIPMENT ALCOVE
B-133	STUDIO THEATER
B-134	ART GALLERY
B-135	BOYS
B-136	GIRLS
B-137	CUSTODIAN
B-138	STORAGE/KIN
B-139	ART PAINTING AND SCULPTURING
B-140	OFFICE
B-141	WORK ROOM
B-142	CONTROL BOOTH
B-143	STAGE
B-1	STAIR

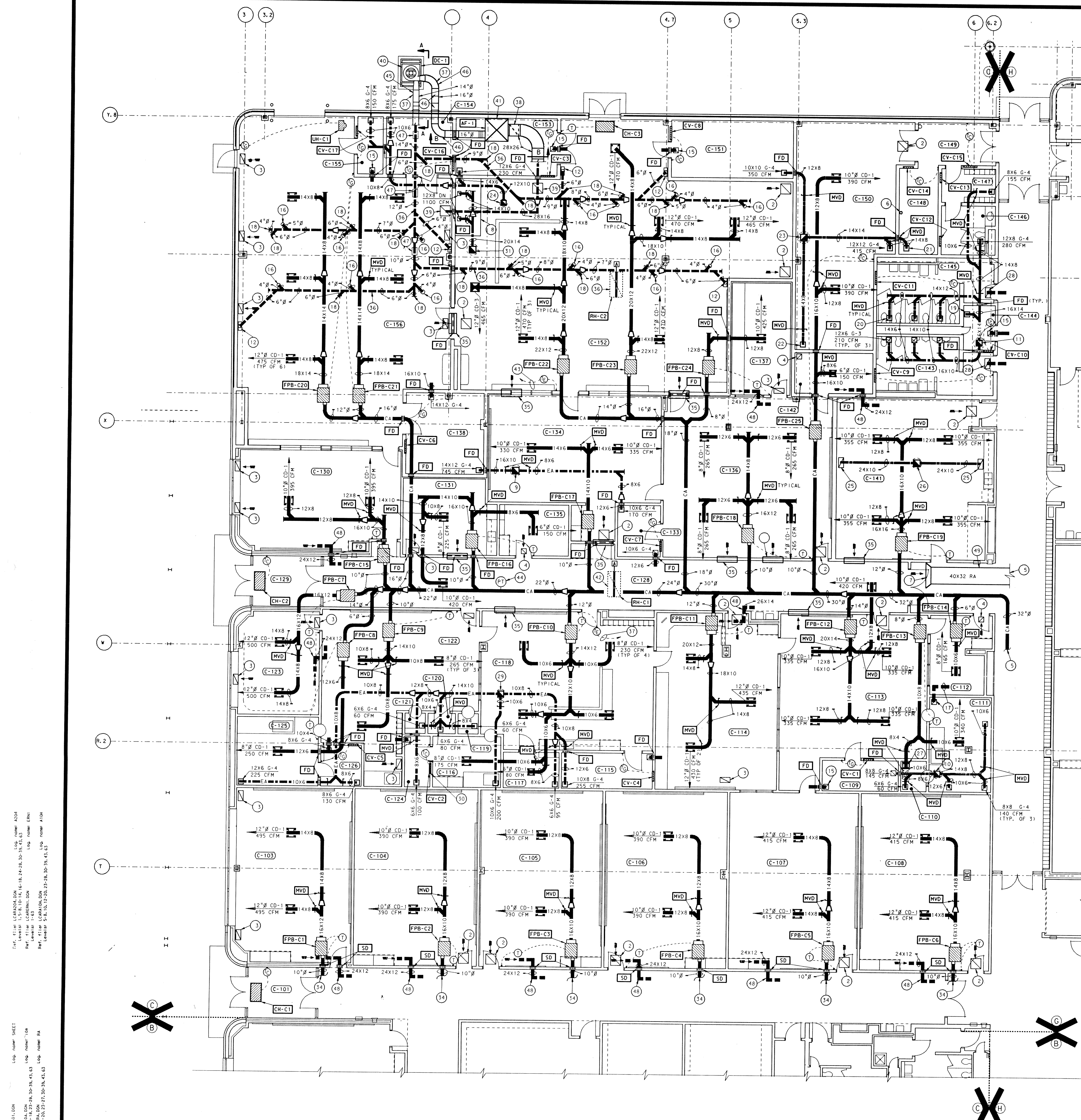


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UNIT "C" HEATING, VENTILATING, & AIR CONDITIONING FLOOR PLAN
 SCALE: 1/8" = 1'-0"
 CONTRACT #81-110
 SHEET M3-3

UNIT "C" HEATING, VENTILATING, & AIR CONDITIONING FLOOR PLAN

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

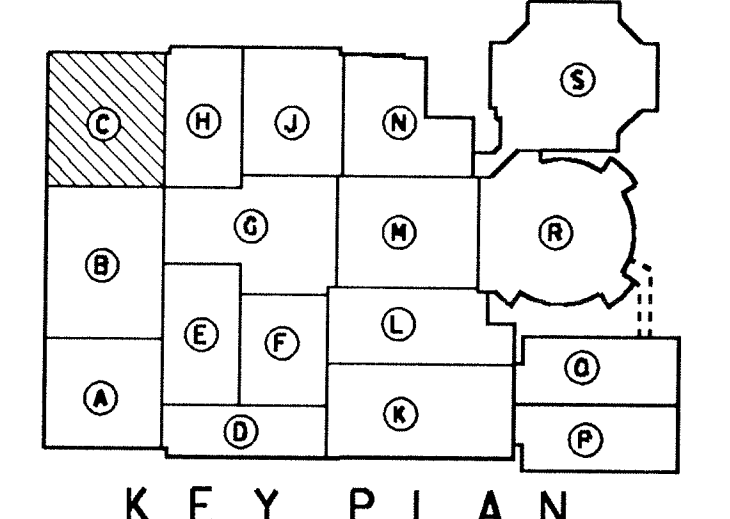
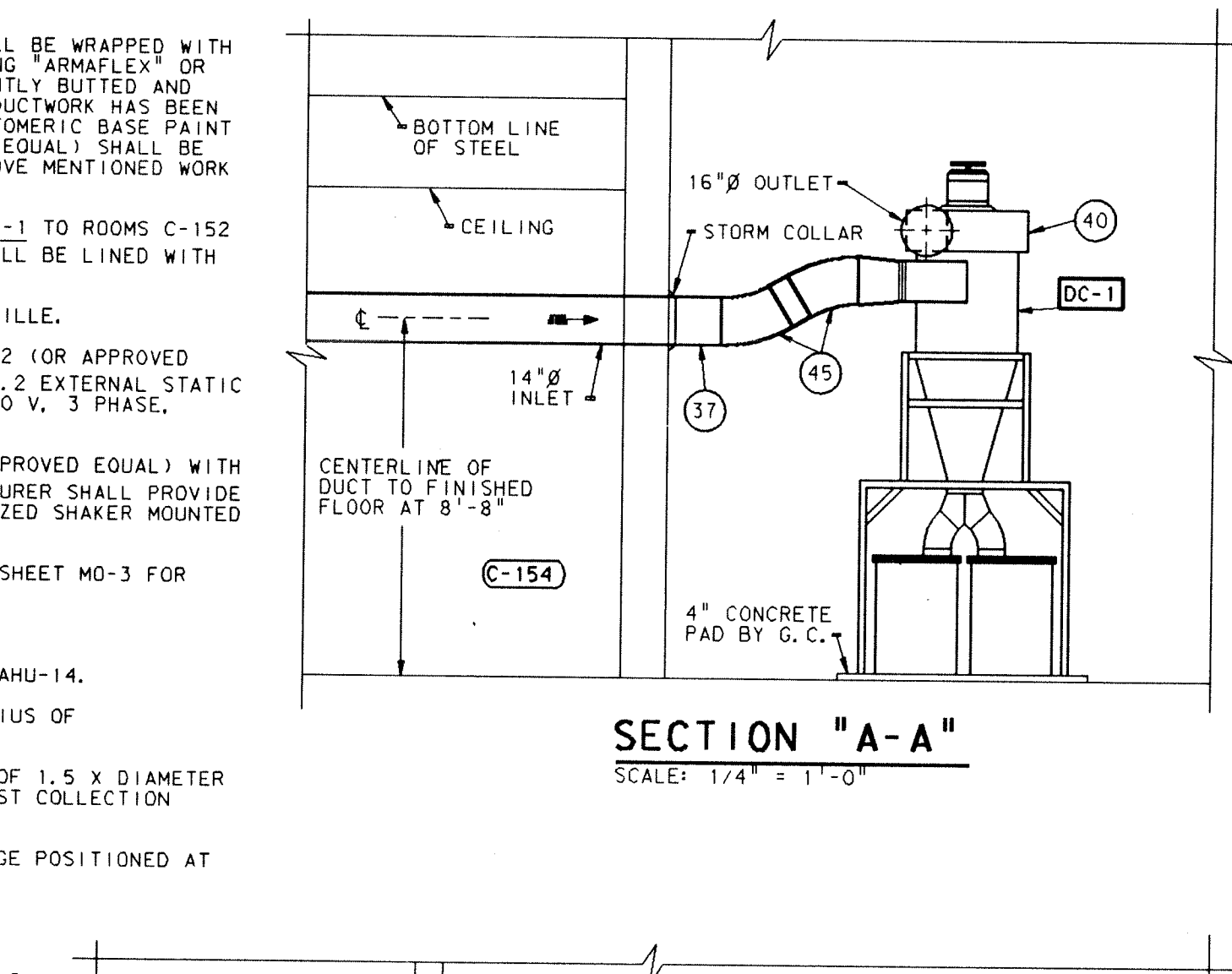
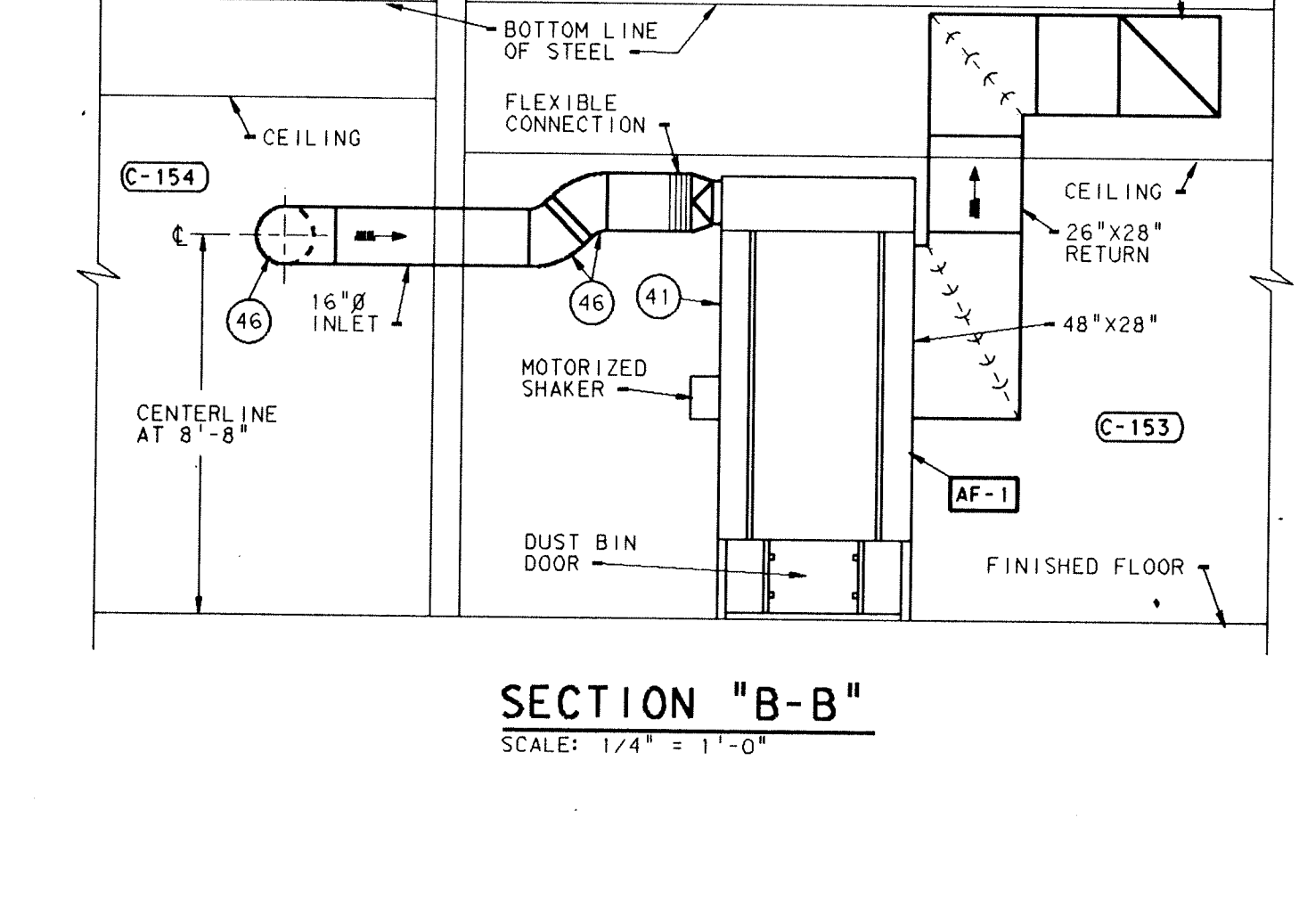
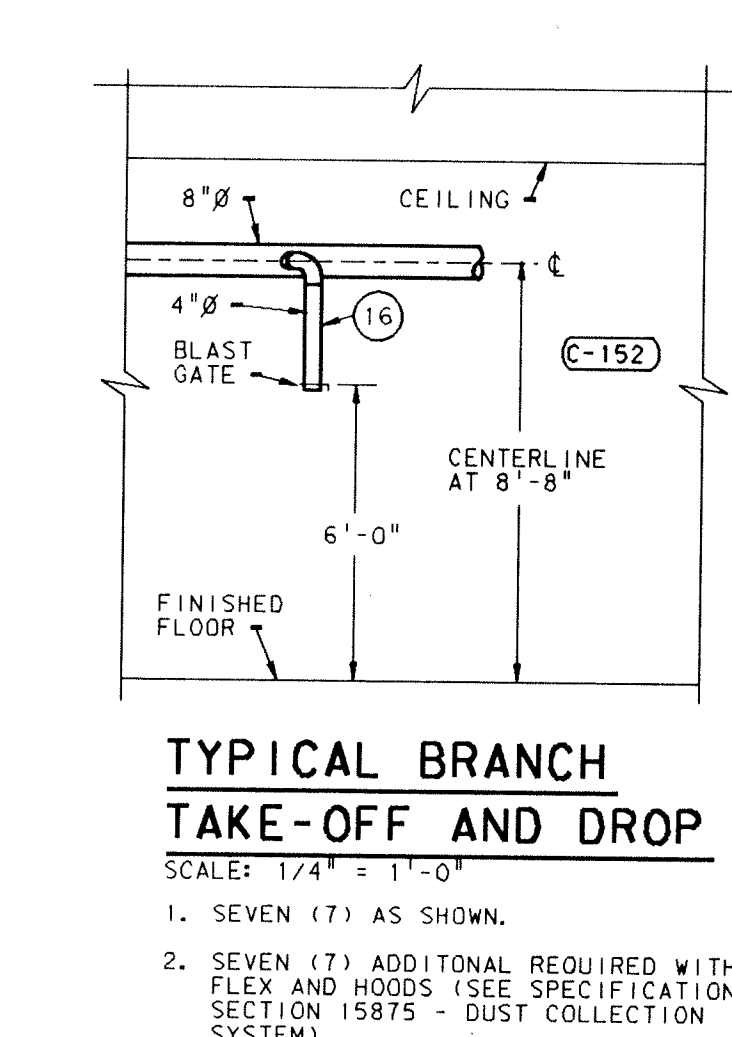
CONTRACT #81-110 Sheet M3-3

A. In Room C-122, Photo Communication, revise diffusers to read 12" round CD-1, 500 CFM each. Change supply air duct sizes to each diffuser to 14" x 8". Revise 14" x 10" supply air duct to read 20" x 12".

PLAN NOTES:

1. SEE SHEETS M0-1 THRU M0-5 FOR GENERAL NOTES, LEGEND & SCHEDULES.
2. 24"x24" RETURN/EXHAUST AIR GRILLE (G-1), WITH FIRE DAMPER.
3. 24"x12" RETURN/EXHAUST AIR GRILLE (G-2), WITH FIRE DAMPER.
4. 12"x12" RETURN/EXHAUST AIR GRILLE (G-3), WITH FIRE DAMPER.
5. SEE SHEET M3-10 FOR CONTINUATION TO AHU-14 LOCATED IN PENTHOUSE #3.
6. 4" STAINLESS STEEL DRYER VENT THRU ROOF GOOSENECK VENT 30" ABOVE FINISHED FLOOR.
7. 60"x32" RETURN AIR OPENING.
8. SHEET METAL CONTRACTOR SHALL PROVIDE AND INSTALL EXHAUST CANOPY FOR WELDING WORK STATION. CANOPY SIZE SHALL BE 12' LONG BY 6' WIDE. HOOD TO BE MOUNTED 2'-6" ABOVE WELDING TABLE PROVIDED BY OWNER. FINAL HEIGHT TO BE FIELD VERIFIED. HOOD TO BE PREFABRICATED FROM 18 GAUGE ALUMINIZED INCL. CANOPY TO HAVE FIRE DAMPER. INSTALL ON HOOD EXHAUST ON EXHAUST OPENING. UNIT TO BE PREWIRED WITH UL LISTED INCENDENT LIGHT FUTURES. INSTALL ON HOOD EXHAUST ON WALL CANOPY. PROVIDE 2" x 8" EXHAUST COLLARS ON HOOD.
9. 14"x14" EXHAUST DUCT UP TO EXHAUST FAN EAF-C2 ON ROOF.
10. 14"x14" EXHAUST DUCT UP TO EXHAUST FAN EAF-C1 ON ROOF.
11. 20"x20" EXHAUST DUCT UP TO EXHAUST FAN EAF-C4 ON ROOF.
12. 20" LENGTH FLOOR SWEEP WITH 6" NECK, SEE DETAIL THIS SHEET.
13. SEE SHEET M7-3 FOR PIPING PLANS.
14. 12"x12" G-4 TRANSFER AIR GRILLE WITH 14"8" DUCT INTO RETURN AIR DUCT WITH FIRE DAMPER AT WALL.
15. PROVIDE BRANCH TAKE-OFF WITH LONG SWEEP ELBOW AND SHORT SECTION OF PIPE WITH BLAST GATE TERMINATING AT 6'-0" FROM FINISHED FLOOR. SEE DETAIL THIS SHEET FOR TYPICAL CONNECTION WITH CLAMP AND ADAPTOR AS REQUIRED FOR FINAL CONNECTION TO SHOP EQUIPMENT. COORDINATE FINAL CONNECTIONS WITH SHOP INSTRUCTOR AND DUST COLLECTOR MANUFACTURER.
16. 12"x12" TRANSFER AIR GRILLE WITH FIRE DAMPER, CONNECTED TO 12"8" TRANSFER DUCT EXTENDING TO FINISHED FLOOR.
17. PROVIDE 6"8" STUB OR SIZE NOTED ON DRAWING WITH END CAP FOR FUTURE CONNECTION OR AS CLEANOUT (TYPICAL).
18. 6"8" G-4 EXHAUST GRILLE, 85 CFM.
19. 12"x12" G-3 EXHAUST GRILLE, 230 CFM EACH, TYPICAL OF 3.
20. 12"x12" G-3 EXHAUST GRILLE, 390 CFM.
21. 12"x12" G-4 EXHAUST GRILLE, 415 CFM.
22. 18"x18" EXHAUST DUCT UP TO ROOF EXHAUST FAN REF-C6.
23. 14"x14" EXHAUST DUCT UP TO ROOF EXHAUST FAN REF-C8.
24. 14"x12" G-2 EXHAUST GRILLE, 945 CFM EACH, TYPICAL OF 2.
25. 20"x20" EXHAUST DUCT UP TO ROOF EXHAUST FAN REF-C7.
26. 6"8" CD-3, 60 CFM.
27. 24"x12" TRANSFER GRILLE, CONNECTED TO 24"x8" TRANSFER DUCT.
28. 18"x18" EXHAUST DUCT UP TO ROOF EXHAUST FAN REF-C3.
29. CV-C2, THERMOSTAT TO HAVE A GUARD AND BE LOCATED ABOVE WELDING HOOD.
30. 20"x20" EXHAUST DUCT UP TO EF-C5 ON ROOF. EF-C5 SERVES WELDING HOOD. SEE DETAIL THIS SHEET.
31. ALL DUCT SIZES SHOWN ARE CLEAR OPEN AREA DIMENSIONS. SHEET METAL CONTRACTOR SHALL FABRICATE LINED DUCT TO MAINTAIN CLEAR OPENING DIMENSIONS.
32. ALL LOW VELOCITY SUPPLY AIR DUCTS SHALL BE LINED WITH 1/2" DUCT LINER.
33. SEE SHEET M3-2 FOR CONTINUATION.
34. 48"x30" TRANSFER AIR OPENING IN WALL ABOVE CEILING.
35. DUST COLLECTOR DUCTWORK AT 8'-8" FROM FINISHED FLOOR. SEE DETAIL THIS SHEET.
36. ALL EXTERIOR DUST COLLECTOR DUCTWORK SHALL BE WRAPPED WITH THICK ELASTOMERIC INSULATION (ARMSTRONG ARMAFLEX OR APPROVED EQUAL). ALL JOINTS SHALL BE TIGHTLY BUTTED AND SEALED WITH AN APPROVED ADHESIVE. AFTER DUCTWORK HAS BEEN WRAPPED AND SEALED, TWO COATS OF AN ELASTOMERIC BASE PAINT APPLIED AS A FINAL PROTECTIVE FINISH. ABOVE MENTIONED WORK SHALL BE BY INSULATION CONTRACTOR.
37. RETURN AIR DUCTWORK FROM AFTER-FILTER, AF-1 TO ROOMS C-152 AND C-156 SHALL RUN ABOVE CEILING AND SHALL BE LINED WITH 1/2" DUCT LINER.
38. PROVIDE 24"x24" G-1 ALUMINUM EGG CRATE GRILLE.
39. DUST COLLECTOR DC-1: AGET MODEL T570-D2 (OR APPROVED EQUAL) WITH 14"8" INLET AT 3000 CFM AND 11.2 EXTERNAL STATIC PRESSURE. MOTOR DATA: 15 HP, 3600 RPM, 460 V, 3 PHASE, 60 CYCLE.
40. AFTER-FILTER AF-1: AGET MODEL FT64 (OR APPROVED EQUAL) WITH ENCLOSED BRANDED BY MANUFACTURER SHALL PROVIDE KEYED MOMENTARY CONTACT TO CONTROL MOTORIZED SHAKER MOUNTED ON AFTER-FILTER.
41. NEW RELIEF HOOD ON ROOF. SEE SCHEDULE ON SHEET M0-3 FOR THROAT SIZE, AUTOMATIC DAMPER BY T.C.C.
42. TEMPERATURE ELEMENT TO DDC SYSTEM.
43. END OF RUN DUCT PRESSURE TRANSMITTER FOR AHU-14.
44. 30" LONG SWEEP ELBOWS WITH CENTERLINE RADIUS OF 2.5 X DIAMETER (TYPICAL OF 2).
45. LONG SWEEP ELBOWS WITH CENTERLINE RADIUS OF 1.5 X DIAMETER (TYPICAL ONLY ON OUTLET/RETURN SIDE OF DUST COLLECTION SYSTEM).
46. PROVIDE PIANO-HINGE ACCESS PANEL WITH HINGE POSITIONED AT BOTTOM CENTER OF THE DUCT.
47. TRANSFER "Z" DUCT, SEE TYPICAL RETURN AIR DETAIL ON SHEET M6-2.
48. RETURN AIR DUCT SHALL BE LINED WITH 2" THICK, 3 POUND DENSITY ACOUSTICAL INSULATION.

ROOM NAME SCHEDULE	
NO	NAME
C-101	VESTIBULE
C-102	CORRIDOR
C-103	CLASSROOM
C-104	CLASSROOM
C-105	CLASSROOM
C-106	CLASSROOM
C-107	CLASSROOM
C-108	CLASSROOM
C-109	STORAGE
C-110	LOADING
C-111	DARK ROOM
C-112	OFFICE
C-113	JOURNALISM
C-114	COMPUTER
C-115	PHOTO DARK ROOM
C-116	DRYING ROOM
C-117	STORAGE
C-118	GRAPHICS
C-119	LOADING
C-120	DRYING
C-121	LOADING
C-122	PHOTO COMMUNICATION
C-123	STUDIO
C-124	STORAGE
C-125	STORAGE
C-126	DARK ROOM
C-127	NOT USED
C-128	CORRIDOR
C-129	VESTIBULE
C-130	PLAN ROOM
C-131	WORK ROOM
C-132	NOT USED
C-133	STORAGE
C-134	PLAN ROOM
C-135	OFFICE
C-136	CLASSROOM
C-137	CAD
C-138	STORAGE
C-139	NOT USED
C-140	NOT USED
C-141	FACULTY DINING
C-142	TELECOMMUNICATIONS
C-143	BOYS
C-144	CUSTODIAN
C-145	CIRCLS
C-146	TOILET
C-147	LOCKERS
C-148	LAUNDRY
C-149	PASSAGE
C-150	STORAGE
C-151	STORAGE
C-152	MANUFACTURING/POWER AND ENERGY
C-153	STORAGE
C-154	STORAGE
C-155	STORAGE
C-156	CONSTRUCTION



**ADDITION TO AND RENOVATION OF
LAWRENCE CENTRAL HIGH SCHOOL**
 for the METROPOLITAN SCHOOL DISTRICT OF LAWRENCE TOWNSHIP
 MARION COUNTY, INDIANA

EVERETT L. BROWN Company
Architects & Engineers
 950 NORTH MERIDIAN STREET
 INDIANAPOLIS, INDIANA 46204
 317-251-1000

PROFESSIONAL ENGINEER
 REG. NO. 20912
 STATE OF INDIANA
 PROJECT 871-110
 DATE DEC. 18, 1989
 REVISED

NO. M3-3
 OF 22

ROOM NAME SCHEDULE

NO	NAME
D-101	VESTIBULE
D-102	WAITING
D-103	OFFICE
D-104	OFFICE
D-105	OFFICE
D-106	WORKROOM
D-107	OFFICE
D-108	OFFICE
D-109	OFFICE
D-110	WORKROOM
D-111	WOMEN
D-112	MEN
D-113	OFFICE
D-114	CONFERENCE
D-115	STORAGE
D-116	OFFICE
D-117	BOOKSTORE
D-118	BOOK STORAGE
D-119	FACULTY
D-120	MAIL AREA
D-121	CORRIDOR
D-122	STUDENT
D-123	CONFERENCE
D-124	CORRIDOR
D-125	OFFICE
D-126	OFFICE
D-127	OFFICE
D-128	OFFICE
D-129	WORKROOM
D-130	OFFICE
D-131	PASSAGE
D-132	OFFICE
D-133	OFFICE
D-134	OFFICE
D-135	ALCOVE
D-136	WAITING
D-137	EXHIBIT SPACE
D-138	WAITING
D-139	CLINIC
D-140	OFFICE
D-141	REST AREA
D-142	TOILET
D-143	REST AREA
D-144	TOILET
D-145	CORRIDOR
D-146	CORRIDOR
D-147	CONFERENCE
D-148	STORAGE
D-149	OFFICE
D-150	RECORDS
D-151	MEN
D-152	WOMEN
D-153	VESTIBULE
D-154	VESTIBULE
D-155	CORRIDOR
D-156	ELECTRICAL
D-157	TIME OUT
D-158	LOBBY
D-159	CONFERENCE
D-160	PASSAGE
D-161	STORAGE
D-1	STAIR

PLAN NOTES:

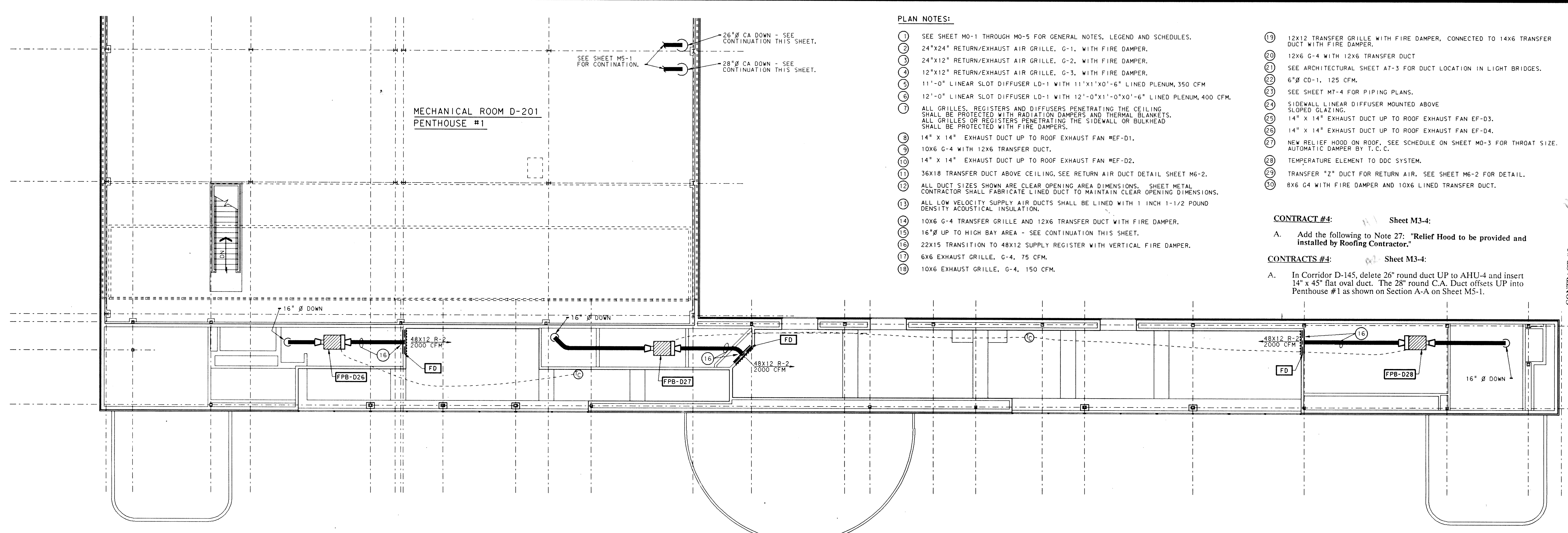
- SEE SHEET M0-1 THROUGH M0-5 FOR GENERAL NOTES, LEGEND AND SCHEDULES.
- 24"x24" RETURN/EXHAUST AIR GRILLE, G-1, WITH FIRE DAMPER.
- 24"x12" RETURN/EXHAUST AIR GRILLE, G-2, WITH FIRE DAMPER.
- 12"x12" RETURN/EXHAUST AIR GRILLE, G-3, WITH FIRE DAMPER.
- 11'-0" LINEAR SLOT DIFFUSER LD-1 WITH 11'X1'X0'-6" LINED PLENUM, 350 CFM.
- 12'-0" LINEAR SLOT DIFFUSER LD-1 WITH 12'-0'X1'-0'X0'-6" LINED PLENUM, 400 CFM.
- ALL GRILLES, REGISTERS AND DIFFUSERS PENETRATING THE CEILING SHALL BE PROTECTED WITH RADIATION DAMPERS AND THERMAL BLANKETS. ALL GRILLES OR REGISTERS PENETRATING THE SIDEWALL OR BULKHEAD SHALL BE PROTECTED WITH FIRE DAMPERS.
- 14" X 14" EXHAUST DUCT UP TO ROOF EXHAUST FAN REF-D1.
- 10X6 G-4 WITH 12X6 TRANSFER DUCT.
- 14" X 14" EXHAUST DUCT UP TO ROOF EXHAUST FAN REF-D2.
- 36X18 TRANSFER DUCT ABOVE CEILING, SEE RETURN AIR DUCT DETAIL SHEET M6-2.
- ALL DUCT SIZES SHOWN ARE CLEAR OPENING AREA DIMENSIONS. SHEET METAL CONTRACTOR SHALL FABRICATE LINED DUCT TO MAINTAIN CLEAR OPENING DIMENSIONS.
- ALL LOW VELOCITY SUPPLY AIR DUCTS SHALL BE LINED WITH 1 INCH 1-1/2 POUND DENSITY ACOUSTICAL INSULATION.
- 10X6 G-4 TRANSFER GRILLE AND 12X6 TRANSFER DUCT WITH FIRE DAMPER.
- 16" UP TO HIGH BAY AREA - SEE CONTINUATION THIS SHEET.
- 22X15 TRANSITION TO 48X12 SUPPLY REGISTER WITH VERTICAL FIRE DAMPER.
- 6X6 EXHAUST GRILLE, G-4, 75 CFM.
- 10X6 EXHAUST GRILLE, G-4, 150 CFM.

- 12X12 TRANSFER GRILLE WITH FIRE DAMPER, CONNECTED TO 14X6 TRANSFER DUCT WITH FIRE DAMPER.
- 12X6 G-4 WITH 12X6 TRANSFER DUCT
- SEE ARCHITECTURAL SHEET A7-3 FOR DUCT LOCATION IN LIGHT BRIDGES.
- 6" X CD-1, 125 CFM.
- SEE SHEET M7-4 FOR PIPING PLANS.
- SIDEWALL LINEAR DIFFUSER MOUNTED ABOVE SLOPED GLAZING.
- 14" X 14" EXHAUST DUCT UP TO ROOF EXHAUST FAN EF-D3.
- 14" X 14" EXHAUST DUCT UP TO ROOF EXHAUST FAN EF-D4.
- NEW RELIEF HOOD ON ROOF. SEE SCHEDULE ON SHEET M0-3 FOR THROAT SIZE. AUTOMATIC DAMPER BY T.C.C.
- TEMPERATURE ELEMENT TO DDC SYSTEM.
- TRANSFER 72" DUCT FOR RETURN AIR. SEE SHEET M6-2 FOR DETAIL.
- 8X6 G4 WITH FIRE DAMPER AND 10X6 LINED TRANSFER DUCT.

CONTRACT #4: Sheet M3-4:
 A. Add the following to Note 27: "Relief Hood to be provided and installed by Roofing Contractor."
 CONTRACTS #4: Sheet M3-4:
 A. In Corridor D-145, delete 26" round duct up to AHU-4 and insert 14" x 45" flat oval duct. The 28" round C.A. Duct offsets UP into Penthouse #1 as shown on Section A-A on Sheet M5-1.

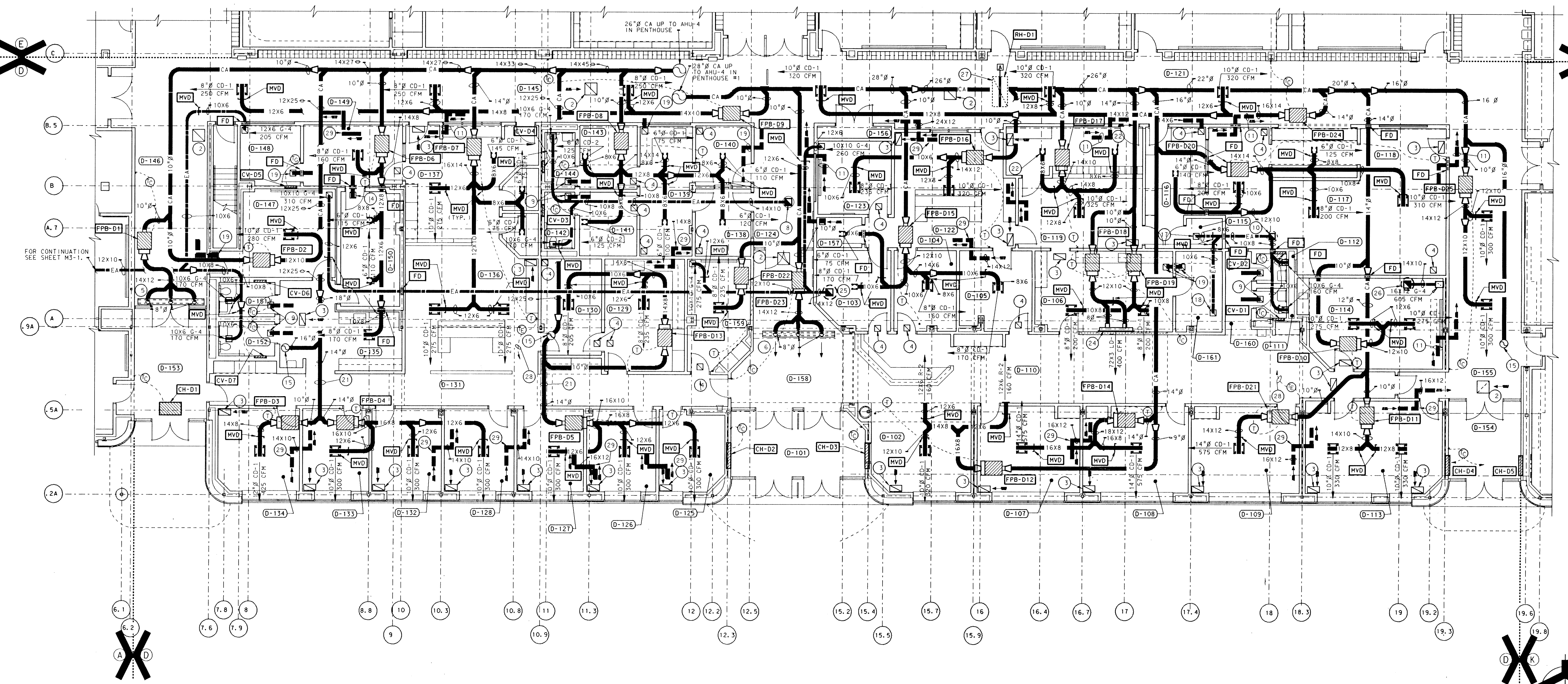
CONTRACT #5: Sheet M3-4:
 A. Show an end of air duct pressure transmitter in the 14" duct in Room D-117 and the 10" duct in Hall D-149 near Column Line C-7.6.

MECHANICAL ROOM D-201
PENTHOUSE #1



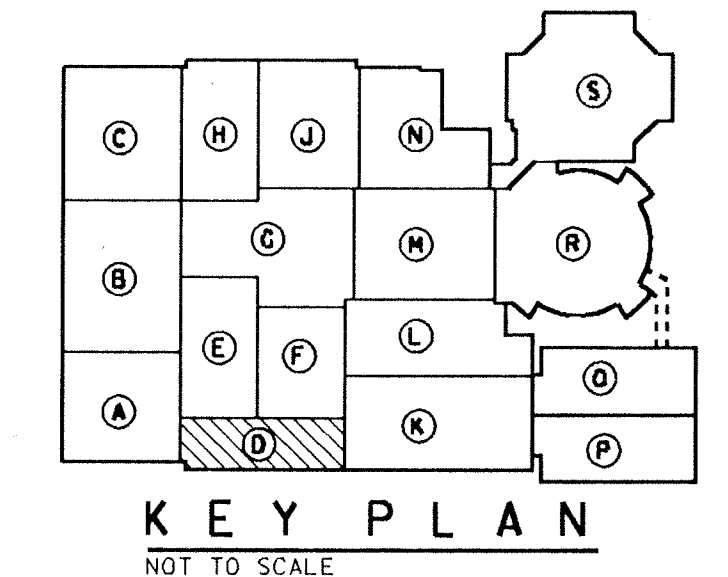
UNIT "D" HEATING, VENTILATING & AIR CONDITIONING FLOOR PLAN - UPPER BAY

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



UNIT "D" HEATING, VENTILATING & AIR CONDITIONING FLOOR PLAN

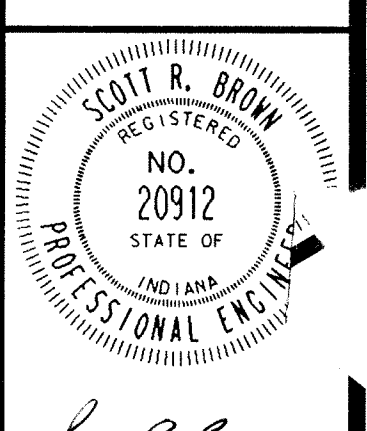
SCALE: 1/8" = 1'-0"



KEY PLAN
NOT TO SCALE

ADDITION TO AND RENOVATION OF
LAWRENCE CENTRAL HIGH SCHOOL
 for the METROPOLITAN SCHOOL DISTRICT of LAWRENCE TOWNSHIP
 MARION COUNTY, INDIANA

EVERETT I. Company
EDDROWN
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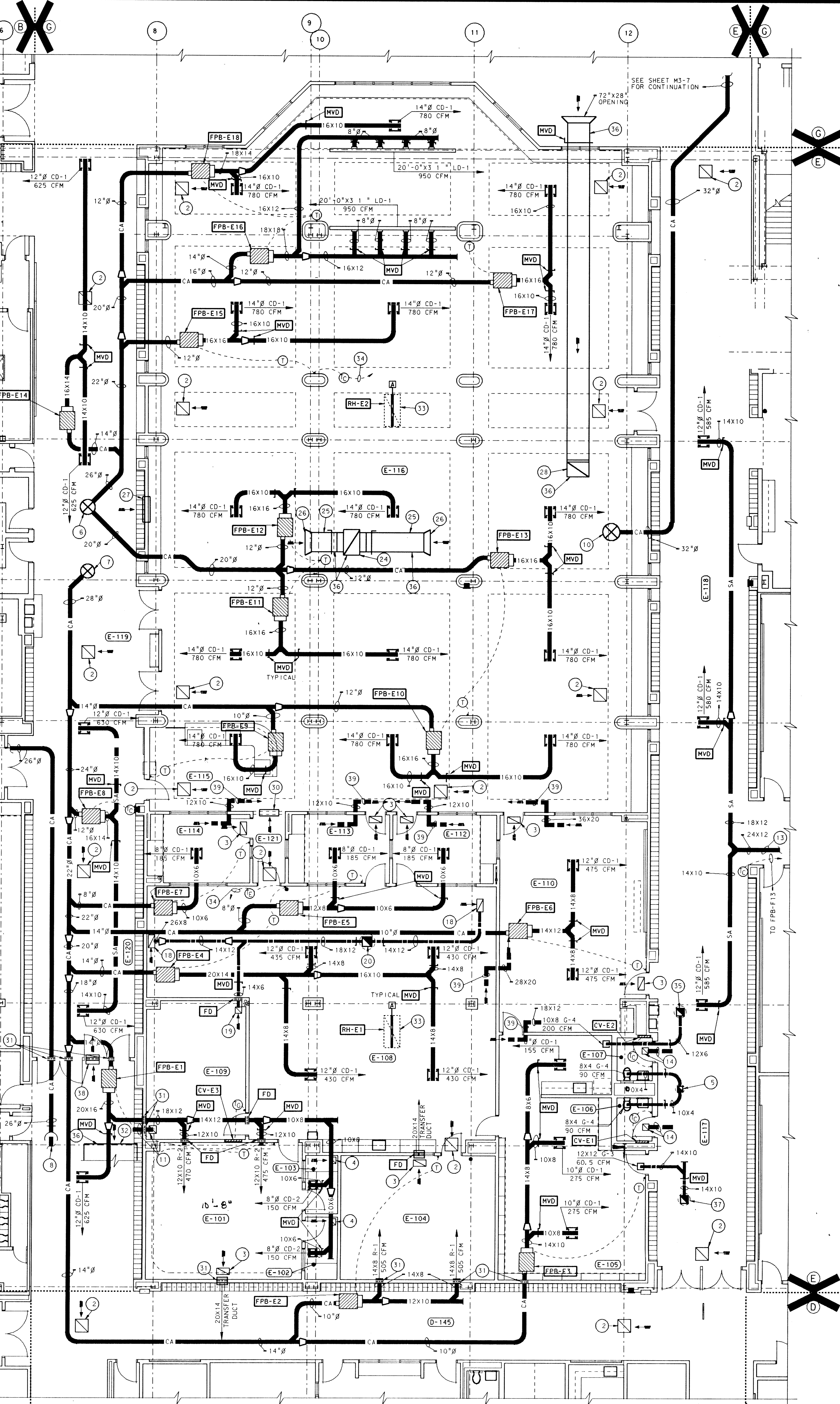
PROJECT
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ROOM NAME SCHEDULE	
NO	NAME
E-101	STUDIO
E-102	CONTROL
E-103	RECORDING
E-104	TELECOMMUNICATIONS
E-105	FACULTY
E-106	TOILET
E-107	TOILET
E-108	WORKROOM
E-109	AUDIO-VISUAL STORAGE
E-110	SEMINAR
E-111	KITCHENETTE
E-112	OFFICE
E-113	OFFICE
E-114	SECRETARY
E-115	DESK
E-116	MEDIA CENTER
E-117	CORRIDOR
E-118	CORRIDOR
E-119	CORRIDOR
E-120	CORRIDOR
E-121	PASSAGE

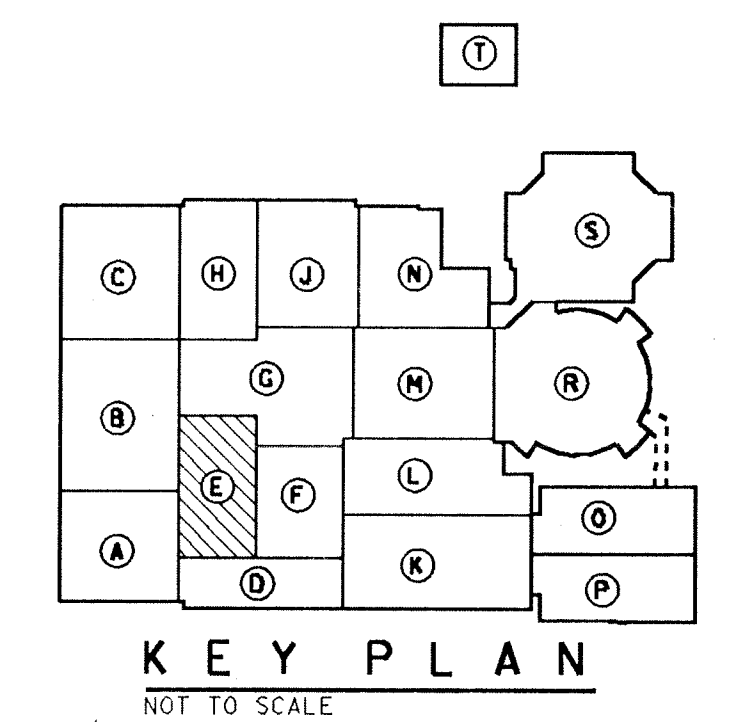
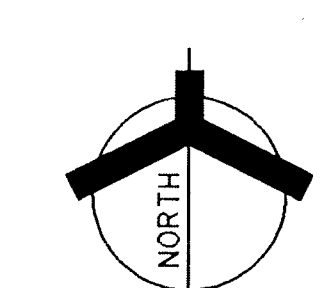
- PLAN NOTES:**
- SEE SHEET M0-1 THRU M0-5 FOR GENERAL NOTES, LEGEND AND SCHEDULES.
 - 24"x24" RETURN AIR GRILLE (G-1), WITH FIRE DAMPER.
 - 24"x12" RETURN AIR GRILLE (G-2), WITH FIRE DAMPER.
 - 12"x12" RETURN AIR GRILLE (G-3), WITH FIRE DAMPER.
 - 14"x14" EXHAUST DUCT UP TO ROOF.
 - 28" MEDIUM PRESSURE SUPPLY DUCT UP TO AHU-5.
 - 26" MEDIUM PRESSURE SUPPLY DUCT UP TO AHU-5.
 - 26" MEDIUM PRESSURE SUPPLY DUCT OFFSET UP TO AHU-1 IN PENTHOUSE #1.
 - SEE SHEET M3-1 FOR CONTINUATION.
 - 32" MEDIUM PRESSURE SUPPLY DUCT UP TO AHU-6.
 - 14"x6" TRANSFER DUCT WITH FIRE AND SMOKE DAMPER, INSTALL 12"x12" G-4 GRILLE IN CEILING WITH FIRE DAMPER.
 - 10"x10" EXHAUST GRILLE G-4 WITH FIRE DAMPER.
 - FOR CONTINUATION SEE SHEET M3-6.
 - 12"x12" G-4 GRILLE WITH 12"x6" TRANSFER DUCT TO CEILING FLENUM.
 - SEE SHEET M7-5 FOR PIPING PLANS.
 - ALL GRILLES, REGISTERS AND DIFFUSERS PENETRATING THE CEILING SHALL BE PROTECTED WITH RADIATION DAMPERS AND THERMAL INSULATING BLANKETS.
 - 66"x28" RETURN DUCT OPENING.
 - 24"x12" G-4 EXHAUST GRILLE WITH FIRE DAMPER, 865 CFM.
 - 12"x12" G-4 EXHAUST GRILLE WITH FIRE DAMPER, 340 CFM.
 - 20"x20" EXHAUST DUCT UP TO ROOF EXHAUST FAN REF-E2 ON ROOF.
 - ALL DUCT SIZES SHOWN ARE CLEAR OPENING AREA DIMENSIONS. SHEET METAL CONTRACTOR SHALL FABRICATE LINED DUCT TO MAINTAIN CLEAR OPENING DIMENSIONS.
 - ALL LOW VELOCITY SUPPLY AIR DUCTS SHALL BE LINED WITH 1" THICK, 1 1/2 POUND DENSITY ACOUSTICAL INSULATION.
 - SEE REFLECTED CEILING PLAN SHEET A6-1 FOR FINAL DIFFUSER, GRILLES AND REGISTER, LOCATIONS, FOR THIS AREA.
 - 48"x30" RETURN AIR DUCT UP BETWEEN JOISTS TO AHU-5 IN PENTHOUSE #2.
 - 36"x24" RETURN AIR DUCT WITH MANUAL VOLUME DAMPER.
 - TRANSITION 36"x24" RETURN AIR DUCT TO 66"x24" DUCT OPENING.
 - 48"x24" RETURN AIR TRANSFER DUCT THRU WALL ABOVE CEILING.
 - 42"x28" RETURN AIR DUCT UP THRU JOISTS TO AHU-6 IN PENTHOUSE #2.
 - TRANSITION 42"x28" RETURN AIR DUCT TO 72"x24" DUCT OPENING.
 - 36"x24" RETURN AIR TRANSFER DUCT THRU WALL ABOVE CEILING.
 - PROVIDE SMOKE AND FIRE DAMPERS WHERE DUCT PENETRATES WALL.
 - 100"x38" RETURN AIR DUCT TO AHU-1 IN PENTHOUSE #1. SEE SHEET M5-1 FOR CONTINUATION AND SECTION.
 - NEW RELIEF HOOD ON ROOF. SEE SCHEDULE ON SHEET M0-3 FOR THROAT SIZE, AUTOMATIC DAMPER BY T.C.C.
 - TEMPERATURE ELEMENT TO ODC SYSTEM.
 - 14x14 EXHAUST DUCT UP TO ROOF EXHAUST FAN REF-3.
 - ALL LOW VELOCITY RETURN AIR DUCTS SHALL BE LINED WITH 2" THICK, 3 POUND DENSITY ACOUSTICAL INSULATION.
 - 14"x14" EXHAUST DUCT UP TO EF-E4 ON ROOF.
 - 24"x14" TRANSFER DUCT WITH SMOKE AND FIRE DAMPER.
 - RETURN OR RELIEF AIR "Z" TYPE TRANSFER DUCT SEE SHEET M6-2 FOR DETAIL.

- CONTRACT #4:** Sheet M3-5:
- Add the following to end of Note 33: "Relief Hood to be provided and installed by Roofing Contractor."
 - In Room E-114 - Secretary, provide a manual volume damper in the 10" x 6" supply air duct.
 - In Room E-102 - south wall, add a 14" x 8" Z type transfer duct adjacent to Column Line 10C. Provide smoke and fire damper in 14" x 10" transfer duct. In north wall, add a 14" x 8" transfer duct.
 - In Corridor E-119 on East Wall by Column Lines H8, add a concealed thermostat which is to serve fan powered box (FPB-E14).
 - In Corridor E-117, provide manual volume dampers in the 10" x 4" exhaust ducts that serve Toilet Rooms E-106 and E-107. Also provide a manual volume damper in the 12" x 6" exhaust duct that serves Kitchenette E-111.

- CONTRACT #5:** Sheet M3-5:
- Show an end of run duct pressure transmitter for AHU #5 in 14" duct in Hall D-145 and the 12" duct in Hall E-119 near Column Line 8L.



UNIT "E" HEATING, VENTILATING & AIR CONDITIONING FLOOR PLAN
 SCALE: 1/8" = 1'-0"



**ADDITION TO AND RENOVATION OF
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 MARION COUNTY, INDIANA

EVERETT, EDGEMAN & COMPANY
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 565 NORTH MERIDIAN STREET
 INDIANAPOLIS, INDIANA 46204
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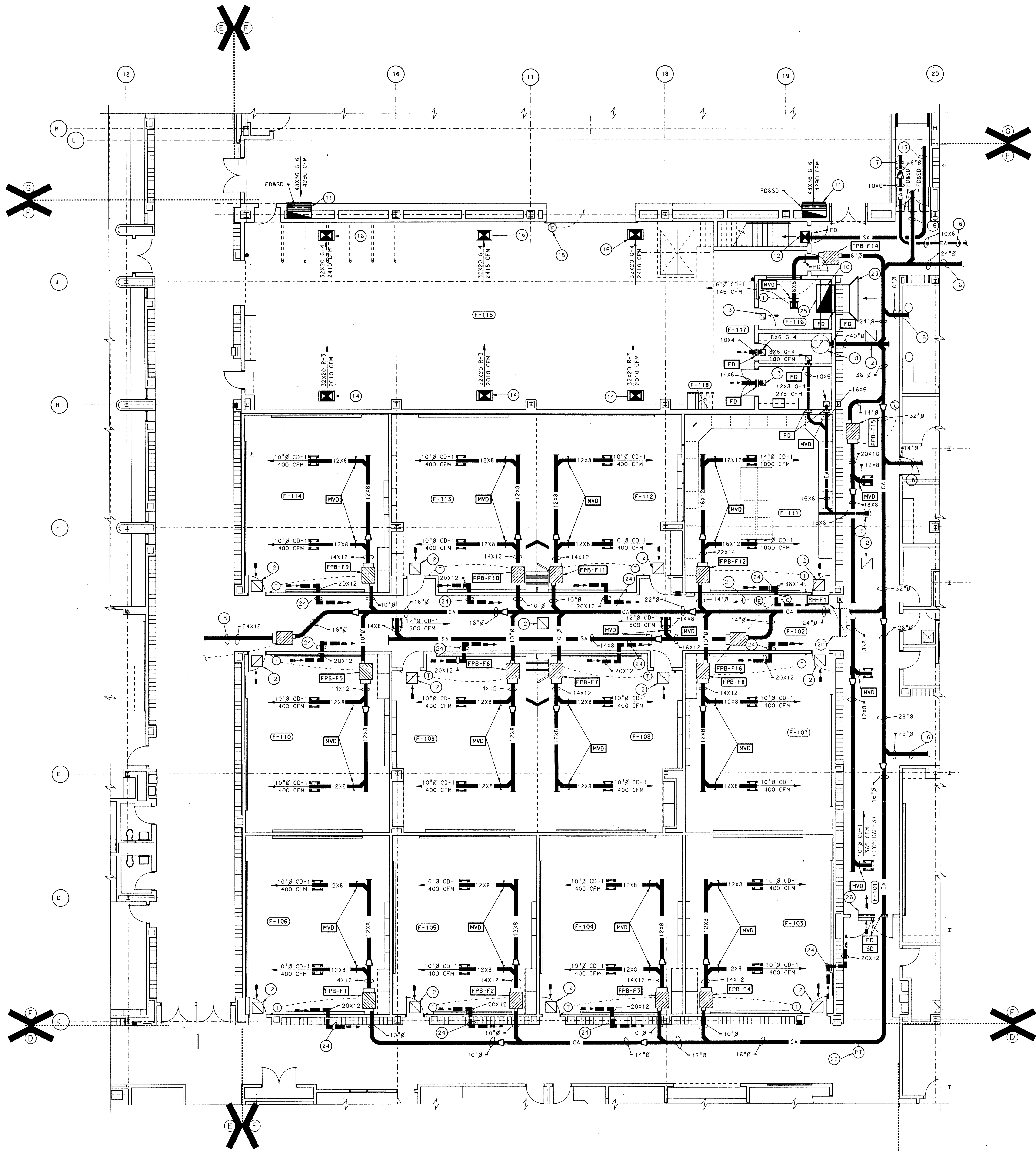
PROJECT
871-110
DATE
DEC. 18, 1989
REVISED

ROOM NAME SCHEDULE

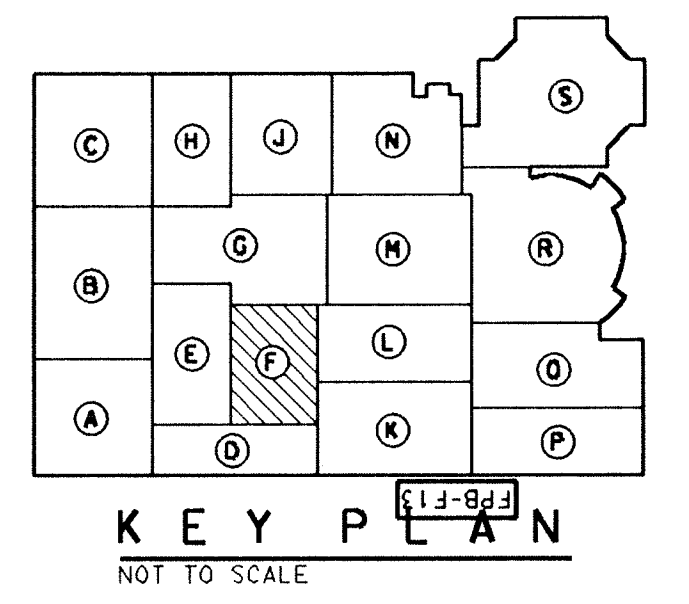
NO	NAME
F-101	CORRIDOR
F-102	CORRIDOR
F-103	CLASSROOM
F-104	CLASSROOM
F-105	CLASSROOM
F-106	CLASSROOM
F-107	CLASSROOM
F-108	CLASSROOM
F-109	CLASSROOM
F-110	CLASSROOM
F-111	CLASSROOM
F-112	CLASSROOM
F-113	CLASSROOM
F-114	CLASSROOM
F-115	SCENE SHOP
F-116	OFFICE
F-117	TOOLS
F-118	PAINT STORAGE
F-119	CORRIDOR
F-201	MEZZANINE
F-1	STAIR
F-2	STAIR
F-3	STAIR

- PLAN NOTES:**
- SEE SHEET M0-1 THRU M0-5 FOR GENERAL NOTES, LEGEND AND SCHEDULES.
 - 24X24 RETURN AIR GRILLE, G-1.
 - 12X12 RETURN AIR GRILLE, G-3.
 - ALL GRILLES, REGISTERS AND DIFFUSERS PENETRATING THE CEILING SHALL BE PROTECTED WITH RADIATION DAMPERS AND THERMAL INSULATING BLANKETS.
 - FOR CONTINUATION SEE SHEET M3-5
 - FOR CONTINUATION SEE SHEET M3-13
 - FOR CONTINUATION SEE SHEET M3-7.
 - 40"Ø CA UP TO AHU-3 IN UNIT F PENTHOUSE #6.
 - 14"X14" EXHAUST AIR DUCT UP TO EF-F1 ON ROOF.
 - 60"X30" ACOUSTICALLY LINED RETURN AIR DUCT UP TO AHU-3. SEE SHEET M5-07 FOR CONTINUATION.
 - 52"X14" RETURN AIR DUCT UP TO AHU-17 IN PENTHOUSE #7. SEE SHEET M5-7 FOR CONTINUATION.
 - 24"X18" S.A. UP TO AHU-17 IN PENTHOUSE #7. SEE SHEET M5-7 FOR CONTINUATION.
 - FOR CONTINUATION OF 24"X18" S.A. DUCT SEE SHEET M3-7.
 - 24"X18" S.A. DUCT UP TO AHU-18 IN PENTHOUSE #7. TRANSITION TO 34"X22" S.A. DUCT FOR R-3 SUPPLY REGISTER PROVIDE FIRE DAMPER IN DUCT.
 - SOLID STATE ELECTRONIC THERMOSTAT UP TO AHU-18 IN PENTHOUSE #7.
 - 28"X14" EXHAUST DUCT UP TO EF-F2 IN PENTHOUSE #7. TRANSITION TO 34"X22" DUCT FOR G-4 EXHAUST GRILLE. PROVIDE FIRE DAMPER IN DUCT.
 - ALL DUCT SIZES SHOWN ARE CLEAR OPENING AREA DIMENSIONS. SHEET METAL CONTRACTOR SHALL FABRICATE LINED DUCT TO MAINTAIN CLEAR OPENING DIMENSIONS.
 - ALL LOW VELOCITY SUPPLY AIR DUCTS SHALL BE LINED WITH 1 INCH THICK 1/2 POUND DENSITY ACOUSTICAL INSULATION.
 - SEE SHEET M7-6 FOR MISCELLANEOUS PIPING.
 - NEW RELIEF HOOD ON ROOF. SEE SCHEDULE SHEET M0-3 FOR THROAT SIZE. AUTOMATIC DAMPER BY T.C.C.
 - TEMPERATURE ELEMENT TO DDC SYSTEM.
 - END OF RUN DUCT PRESSURE TRANSMITTER TO AHU-3.
 - 96X30 LINED RETURN AIR OPENING TRANSITION TO 60X30 RETURN DUCT.
 - RETURN OR RELIEF AIR "Z" DUCT. SEE SHEET M6-2 FOR TYPICAL DETAIL.
 - RETURN AIR DUCT TO BE LINED WITH 2 INCH 3 POUND DENSITY ACOUSTICAL INSULATION.
 - 36"X20" TRANSFER DUCT WITH FIRE AND SMOKE DAMPER.

CONTRACT #4: F-11 Sheet M3-6:
 A. Add the following to the end of Note 20: "Relief Hood to be provided and installed by Roofing Contractor."
 B. In Corridor G-114 and Column Lines L-20, delete 8" round and 10" x 6" rectangular exhaust duct.

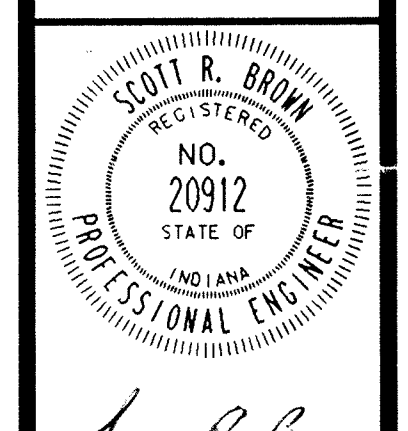


UNIT "F" HEATING, VENTILATING & AIR CONDITIONING FLOOR PLAN
 SCALE: 1/8" = 1'-0"



ADDITION TO and RENOVATION OF LAWRENCE CENTRAL HIGH SCHOOL
 for the METROPOLITAN SCHOOL DISTRICT of LAWRENCE TOWNSHIP
 MARION COUNTY, INDIANA

VERETT I. BROWN Company
Architects & Engineers
 950 NORTH MERIDIAN STREET
 INDIANAPOLIS, INDIANA 46204
 (317) 537-1000



PROJECT 871-110
 DATE DEC. 18, 1989
 REVISED

ROOM NAME SCHEDULE	
NO	NAME
G-101	LOBBY
G-102	EAST LOBBY
G-103	WEST LOBBY
G-104	LECTURE
G-105	LECTURE
G-106	STORAGE
G-107	STAIR
G-108	STORAGE
G-109	CATWALK ACCESS
G-110	VOMITORY
G-111	AUDITORIUM
G-112	ORCHESTRA PIT
G-113	STAIR
G-114	CORRIDOR
G-115	STAGE
G-116	STORAGE
G-117	STORAGE
G-118	STAIR
G-119	CORRIDOR
G-120	CORRIDOR
G-121	STUDENT COMMONS
G-122	CORRIDOR
G-123	CORRIDOR

CONTRACT #: _____ **Sheet M3-7:** _____

A. Add the following to the end of Note 16: "Relief Hood to be provided and installed by Roofing Contractor."

B. 15'-0" south of Column Line R located in Corridor G-120 offset 32" round C.A. duct up. In East Lobby G-102, offset 23" round C.A. duct down.

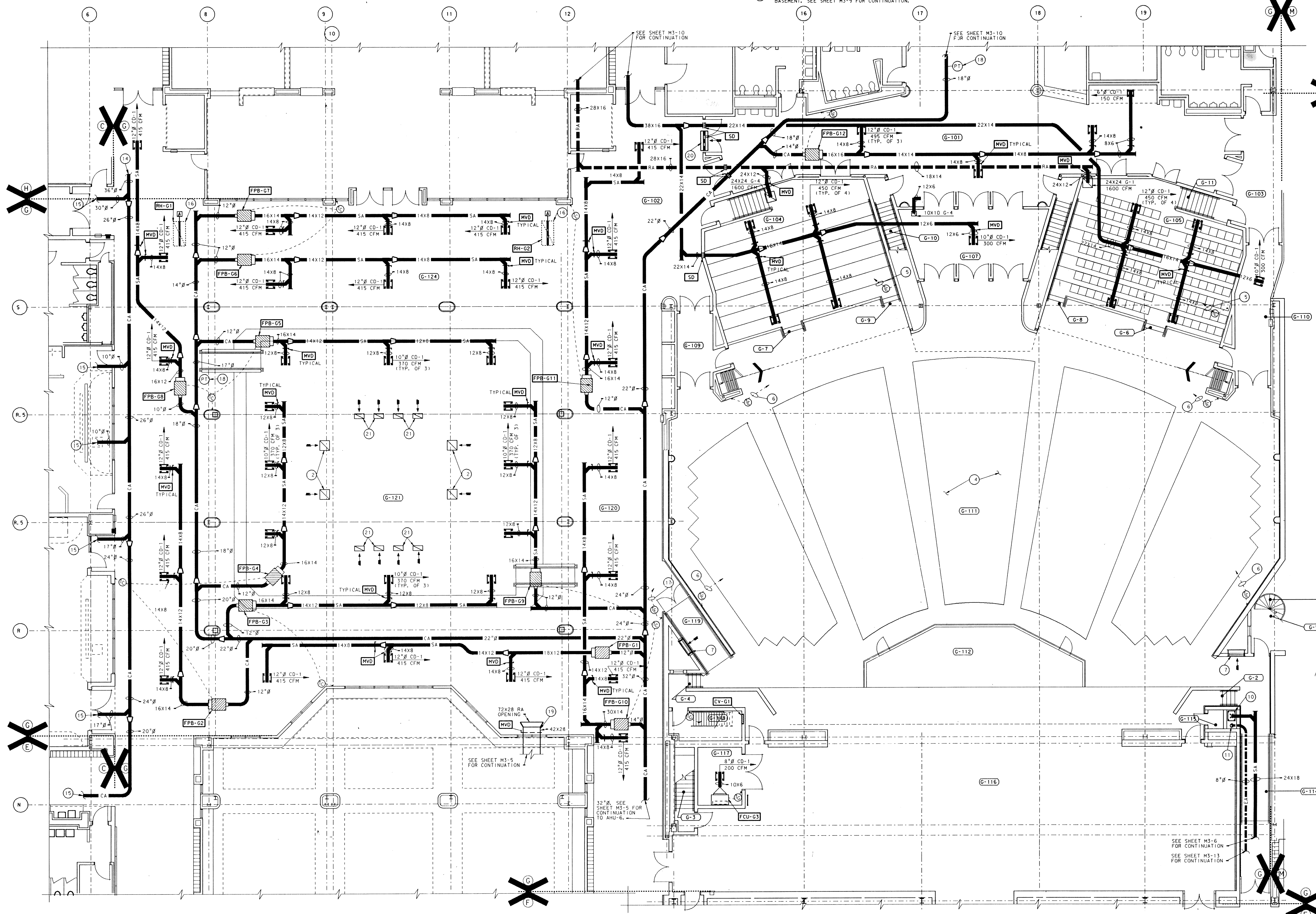
C. See added Architectural Sheet A2-7 this Addendum.

D. At the 38" x 16" low velocity supply air duct located over the East Lobby, Room G-102, add Reference Note 9.

E. Add the Following Reference Note to Sheet:

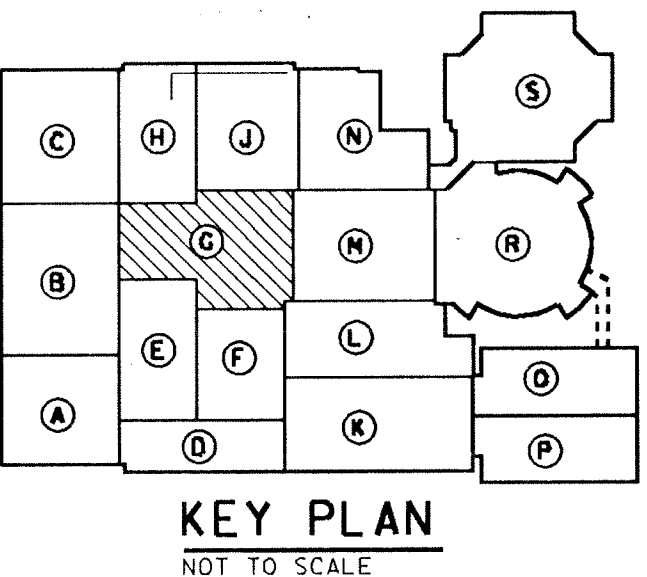
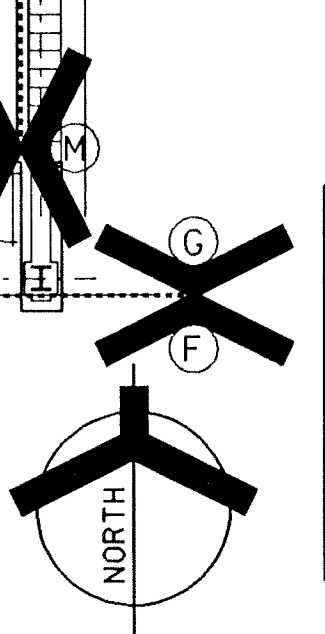
"22. Provide 1 inch thick 1-1/2 pound density acoustical insulation in the Return Air Duct that serves AHU-16. Add Reference Note 22 to the Return Air Duct located over the East Lobby Room G-102."

- PLAN NOTES:**
- SEE SHEET M0-1 THRU M0-5 FOR GENERAL NOTES, LEGEND AND SCHEDULES.
 - 24"x24" G-1 RETURN AIR GRILLE WITH FIRE DAMPER.
 - ALL GRILLES, REGISTERS AND DIFFUSERS PENETRATING THE CEILING SHALL BE PROTECTED WITH RADIATION DAMPERS AND THERMAL INSULATING BLANKETS.
 - SEE SHEET M3-9 FOR AIR DISTRIBUTION THIS AREA.
 - SOILD STATE TEMPERATURE ELEMENT TO AHU-16 CONTROL PANEL.
 - SOILD STATE TEMPERATURE ELEMENT TO AHU-13 CONTROL PANEL.
 - 40" WIDE X 120" HIGH TRANSFER AIR LOUVER, LOUVER TO BE PROVIDED AND INSTALLED BY ROOFING CONTRACTOR. MOUNT LOUVER 4" INCHES ABOVE FINISHED FLOOR.
 - ALL DUCT SIZES SHOWN ARE CLEAR OPEN AREA DIMENSIONS. SHEET METAL CONTRACTOR SHALL FABRICATE LINED DUCT TO MAINTAIN DIMENSIONS.
 - LOW VELOCITY SUPPLY AIR DUCTS SHALL BE LINED WITH 1" THICK, 1 1/2 POUND DENSITY ACOUSTICAL INSULATION.
 - 24"x18" LOW VELOCITY SUPPLY AIR DUCT DOWN TO UNIT "G" BASEMENT. SEE SHEET M3-9 FOR CONTINUATION.
 - 8" Ø EXHAUST DUCT DOWN TO BASEMENT. SEE SHEET M3-9 FOR CONTINUATION.
 - SEE REFLECTED CEILING PLAN SHEET A6-2 FOR FINAL DIFFUSER, GRILLE AND REGISTER LOCATIONS FOR STUDENT COMMONS AREA.
 - SEE SHEET M7-7 FOR MISCELLANEOUS PIPING.
 - SEE SHEET M3-10 FOR CONTINUATION OF 36" Ø CA DUCT TO AHU-2.
 - SEE SHEET M3-2 FOR CONTINUATION.
 - NEW RELIEF HOOD ON ROOF. SEE SCHEDULE ON SHEET M0-3 FOR THROAT SIZE. AUTOMATIC DAMPER BY T.C.C.
 - TEMPERATURE ELEMENT TO DDC SYSTEM.
 - END OF RUN DUCT PRESSURE TRANSMITTER TO AHU-5.
 - 42"x28" RETURN AIR DUCT TO AHU-6 LOCATED IN PENTHOUSE #2. RETURN DUCT SHALL BE LINED WITH 2" THICK, 3 POUND DENSITY ACOUSTICAL INSULATION.
 - 48"x24" TRANSFER DUCT WITH SMOKE DAMPER.
 - 24"x12" G-2 RETURN AIR GRILLE WITH FIRE DAMPER.



UNIT "G" HEATING, VENTILATING & AIR CONDITIONING FLOOR PLAN

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



ADDITION TO and RENOVATION OF
LAWRENCE CENTRAL HIGH SCHOOL
 for the METROPOLITAN SCHOOL DISTRICT of LAWRENCE TOWNSHIP
 MARION COUNTY, INDIANA

VERETT I. BROWN Company
Architects & Engineers
 950 NORTH MERIDIAN STREET
 INDIANAPOLIS, INDIANA 46204
 (317) 237-1000



PROJECT
871-110

DATE
DEC. 18, 1989

REVISED

ROOM NAME SCHEDULE

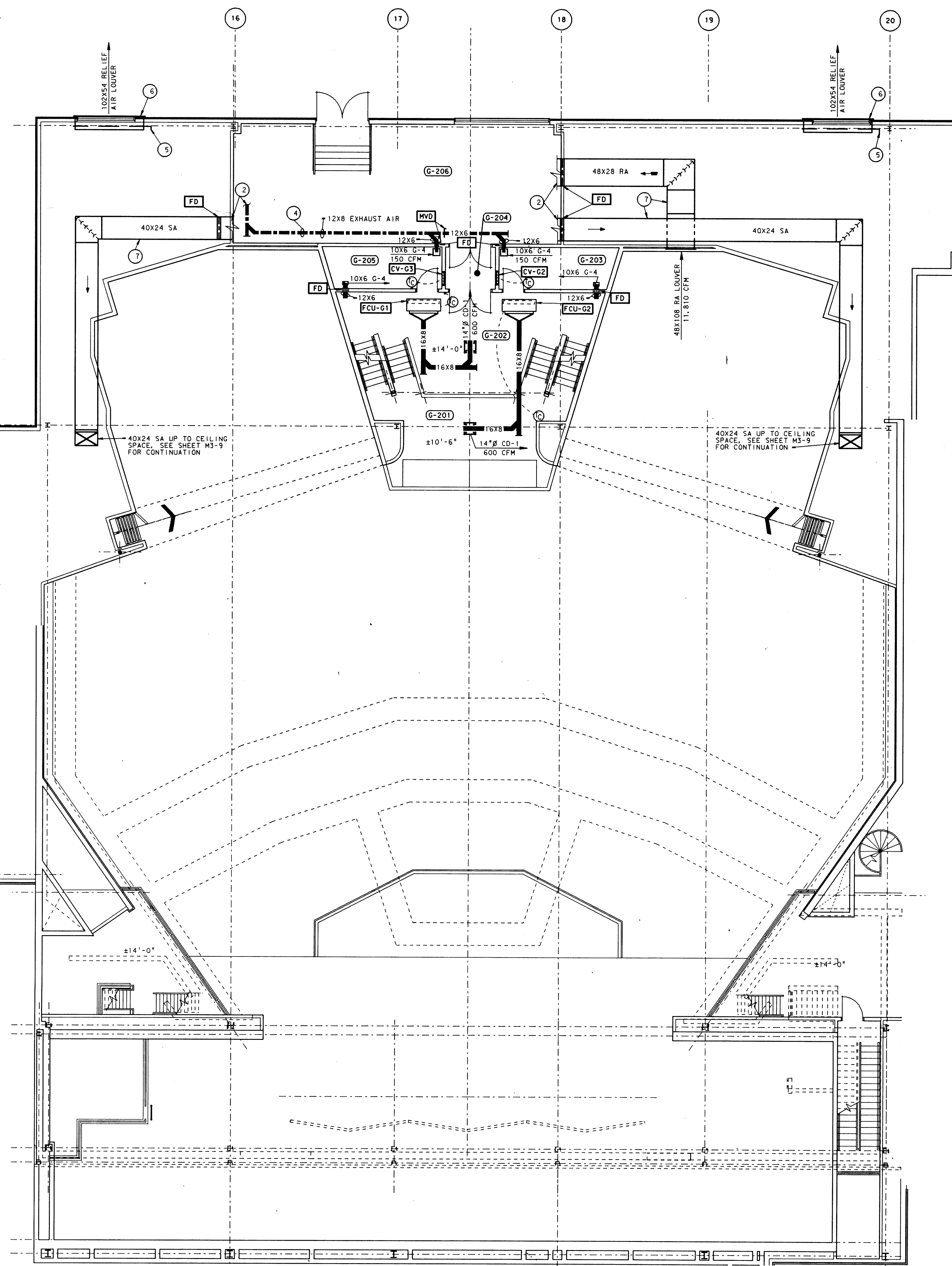
NO	NAME
G-201	LOWER BOOTH
G-202	UPPER BOOTH
G-203	STORAGE
G-204	VESTIBULE
G-205	STORAGE
G-206	MECHANICAL ROOM

PLAN NOTES:

- SEE SHEETS M0-1, THRU M0-5 FOR GENERAL NOTES, LEGEND AND SCHEDULES.
- SEE SHEET M5-6 FOR CONTINUATION OF DUCTS AND MECHANICAL ROOM.
- ALL SUPPLY AND RETURN AIR DUCTWORK SHALL BE LINED WITH 2 INCH THICK, 3 POUND DENSITY ACOUSTICAL LINER.
- LINE 12"x8" RELIEF AIR DUCT WITH 2 INCH THICK, 3 POUND DENSITY ACOUSTICAL INSULATION.
- PROVIDE AUTOMATIC DAMPER BEHIND RELIEF AIR LOUVER. DAMPER TO BE PROVIDED AND INSTALLED BY TEMPERATURE CONTROL CONTRACTOR.
- 120"x54" RELIEF AIR LOUVER TO BE PROVIDED AND INSTALLED BY ROOFING CONTRACTOR.
- SEE SHEET M1-8 FOR MISCELLANEOUS PIPING.

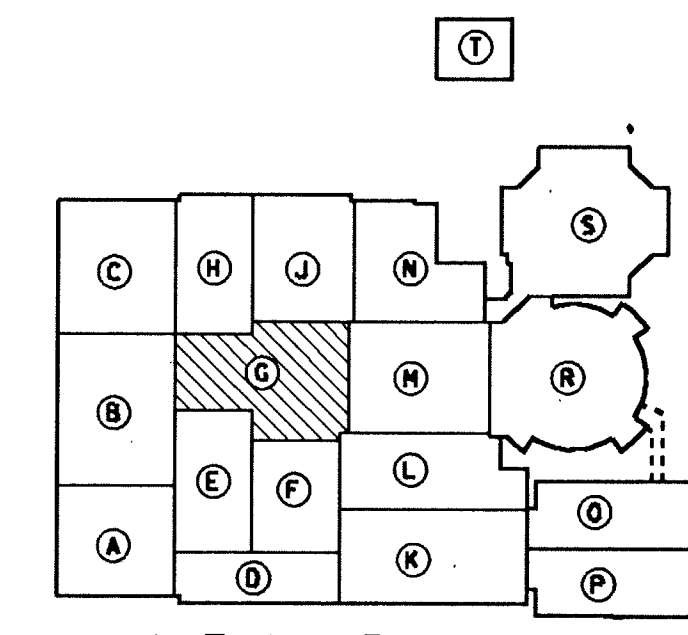
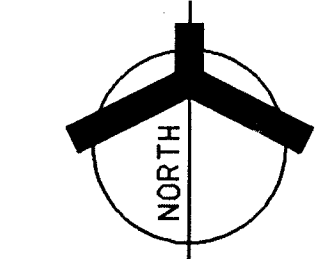
CONTRACT #4: *ADD 1* Sheet M3-8:

- In Note 3, delete 2 inch thick 3 pound density and insert "1 inch thick 1-1/2 pound density".
- In Note 4, delete 2 inch thick 3 pound density and insert "1 inch thick 1-1/2 pound density".
- See added Architectural Sheet A2-9 this Addendum.



UNIT "G" HEATING, VENTILATING AND AIR CONDITIONING SECOND FLOOR PLAN

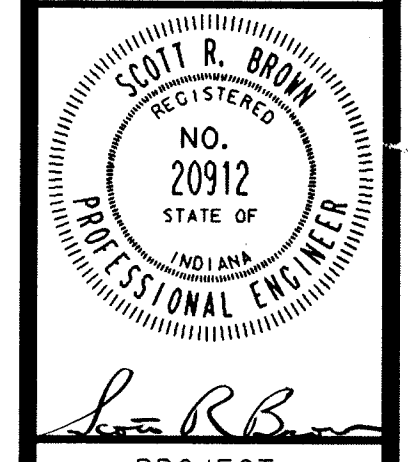
SCALE: 1/8" = 1'-0"



KEY PLAN NOT TO SCALE

ADDITION TO AND RENOVATION OF LAWRENCE CENTRAL HIGH SCHOOL
 for the METROPOLITAN SCHOOL DISTRICT of LAWRENCE TOWNSHIP
 MARION COUNTY, INDIANA

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 (317) 231-1000



PROJECT: 871-110
 DATE: DEC. 18, 1989
 REVISED:

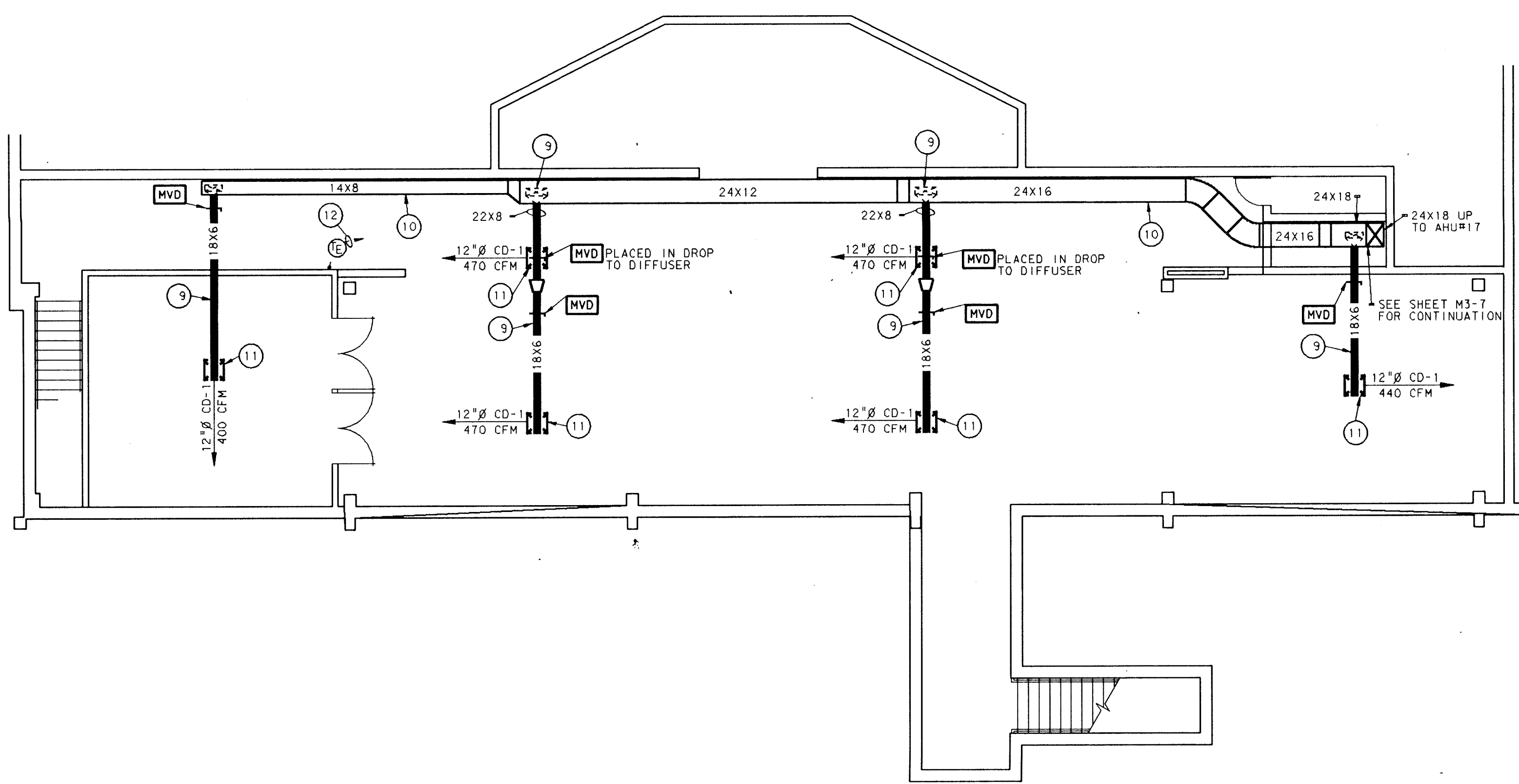
PLOT DATE: 12/18/89
 DWG. NO.: 871-110-02
 LOG. NO.: 280
 LOG. NAME: EXISTING

PLAN NOTES:

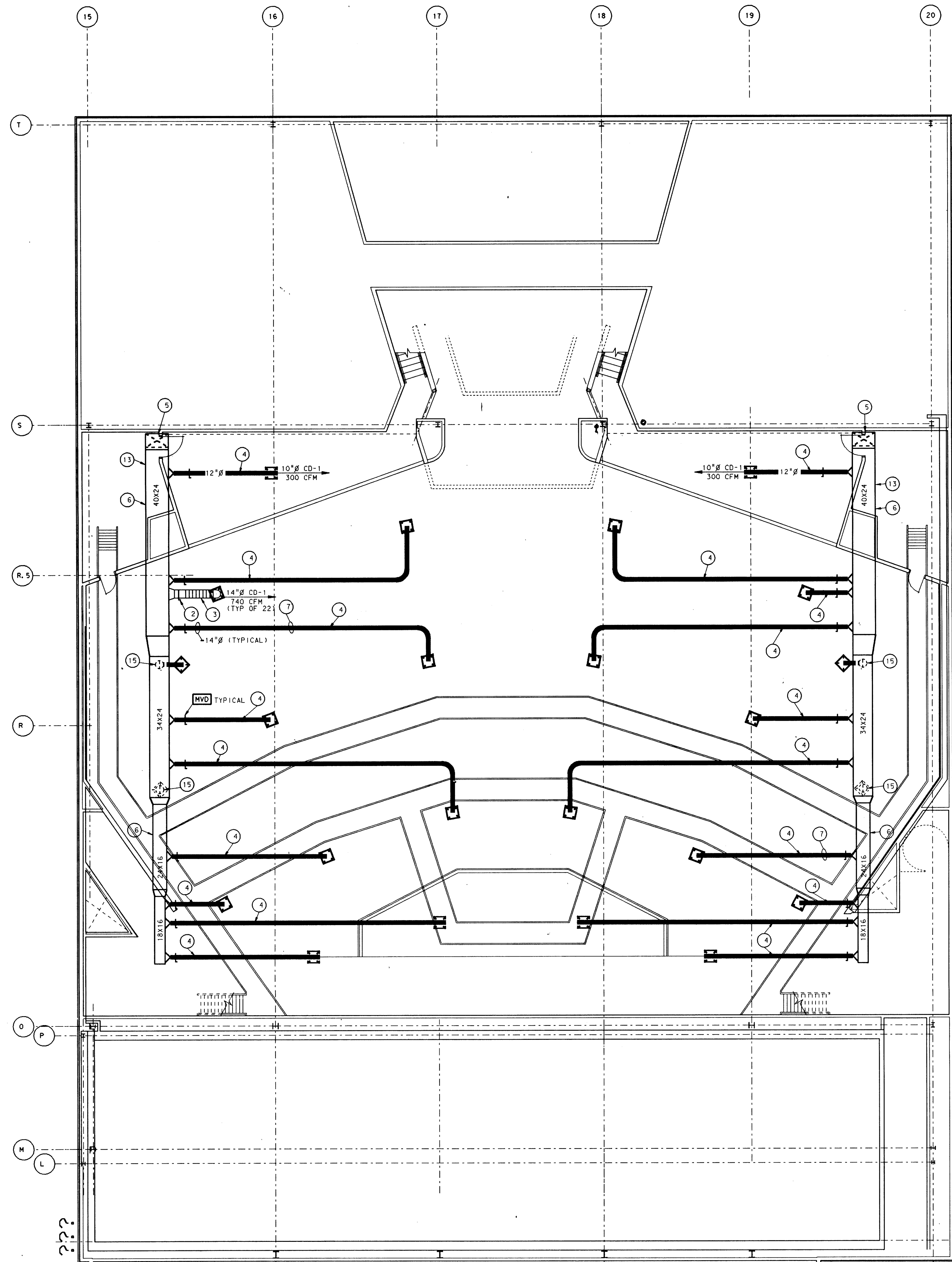
- 1 SEE SHEET M0-1 THRU M0-5 FOR GENERAL NOTES, LEGEND AND SCHEDULES.
- 2 14"Ø CONICAL FITTING WITH AIR EXTRACTOR AND VOLUME DAMPER.
- 3 14"Ø FLEXIBLE DUCT, NOT TO EXCEED 6 LINEAL FEET OVER AUDITORIUM.
- 4 14"Ø DUCT TO RUN BETWEEN JOISTS WEBBING.
- 5 40"x24" SUPPLY AIR DUCT DOWN TO SECOND FLOOR. SEE SHEET M3-8 FOR CONTINUATION.
- 6 ALL RECTANGULAR LOW VELOCITY SUPPLY AIR DUCTS TO BE LINED WITH 1" THICK, 1/2 POUND DENSITY ACOUSTICAL INSULATION.
- 7 ROUND DUCTWORK TO BE EXTERNALLY INSULATED.
- 8 ALL GRILLES, REGISTERS AND DIFFUSERS PENETRATING THE CEILING SHALL BE PROTECTED WITH RADIATION DAMPERS AND THERMAL INSULATING BLANKETS.
- 9 ROUTE DUCT AS HIGH AS POSSIBLE BETWEEN JOISTS.
- 10 MOUNT DUCT AS HIGH AS POSSIBLE TO BOTTOM OF BEAM.
- 11 PROVIDE SUPPORTS TO MOUNT DIFFUSERS BETWEEN JOISTS LEVEL WITH BOTTOM OF JOISTS.
- 12 SOLID STATE TEMPERATURE ELEMENT TO AHU-17 CONTROL PANEL.
- 13 40"x24" SUPPLY AIR DUCT TO RUN AS HIGH AS POSSIBLE BETWEEN STRUCTURAL JOISTS.
- 14 SEE SHEET M7-9 FOR MISCELLANEOUS PIPING.
- 15 PROVIDE VOLUME DAMPER IN 14"Ø DROP TO DIFFUSER.

CONTRACT #4: P-001 Sheet M3-9:

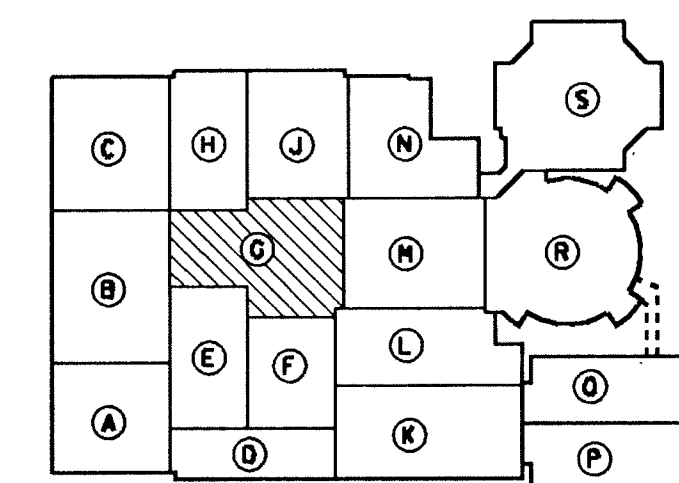
A. See added Architectural Sheet A2-10 this Addendum for Room names and numbers.



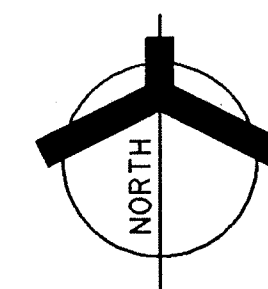
UNIT "G" HEATING, VENTILATING & AIR CONDITIONING BASEMENT PLAN
SCALE: 1/8" = 1'-0"



UNIT "G" HEATING, VENTILATING AND AIR CONDITIONING THIRD FLOOR PLAN
SCALE: 1/8" = 1'-0"

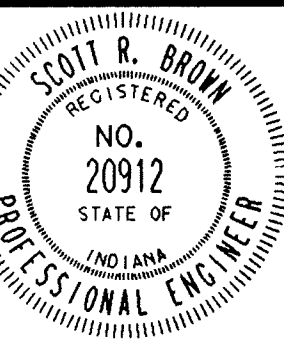


KEY PLAN
NOT TO SCALE



ADDITION TO and RENOVATION OF LAWRENCE CENTRAL HIGH SCHOOL
 for the METROPOLITAN SCHOOL DISTRICT of LAWRENCE TOWNSHIP
 MARION COUNTY, INDIANA

EVERETT L. CROWN Company
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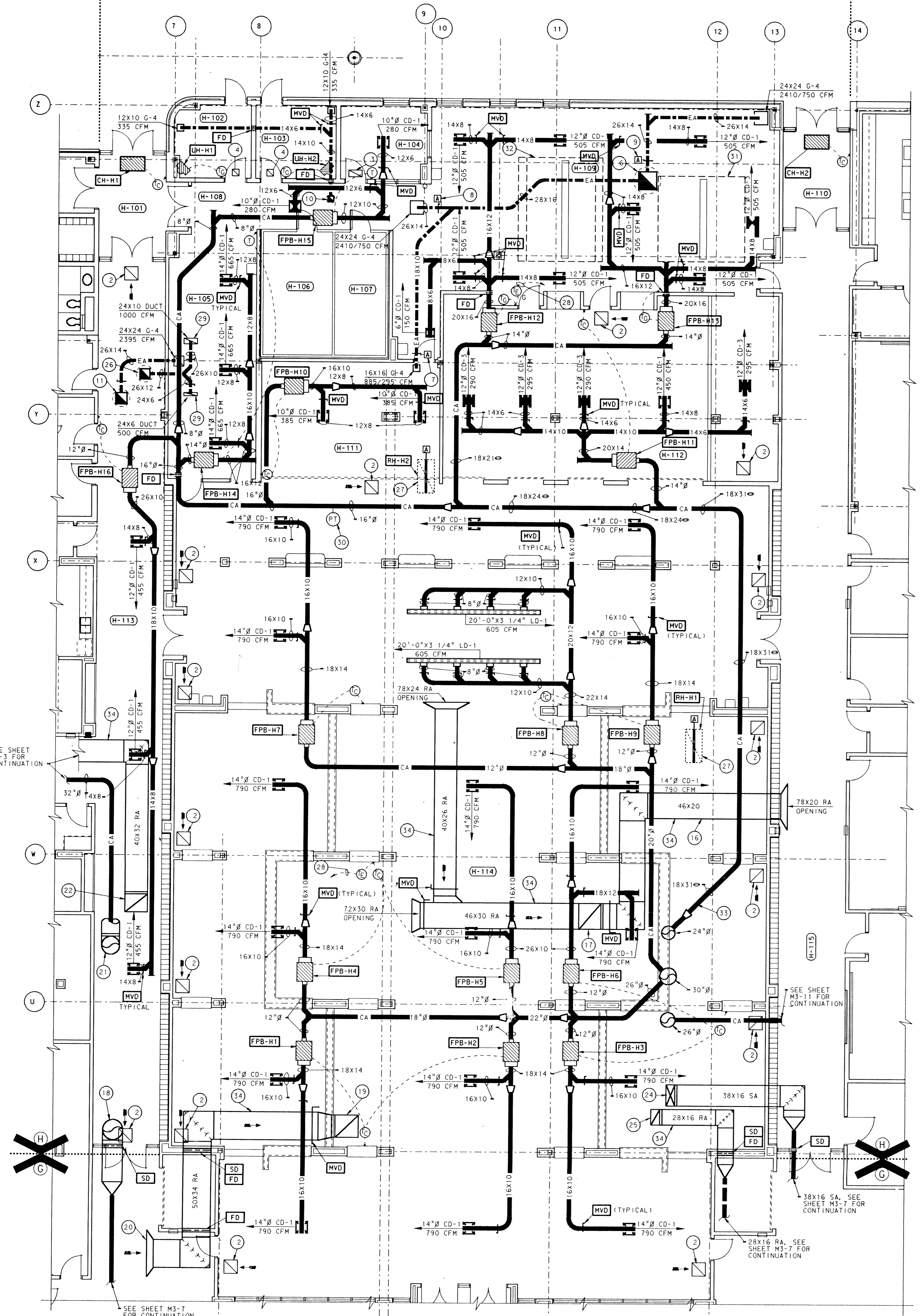
PROJECT: 871-110
 DATE: DEC. 18, 1989
 REVISED:

ROOM NAME SCHEDULE

NO	NAME
H-101	VESTIBULE
H-102	TRASH
H-103	RECEIVING
H-104	OFFICE
H-105	WAREWASHING
H-106	FREEZER
H-107	COOLER
H-108	PASSAGE
H-109	KITCHEN
H-110	VESTIBULE
H-111	FAST FOODS
H-112	SERVING
H-113	CORRIDOR
H-114	CAFETERIA
H-115	CORRIDOR

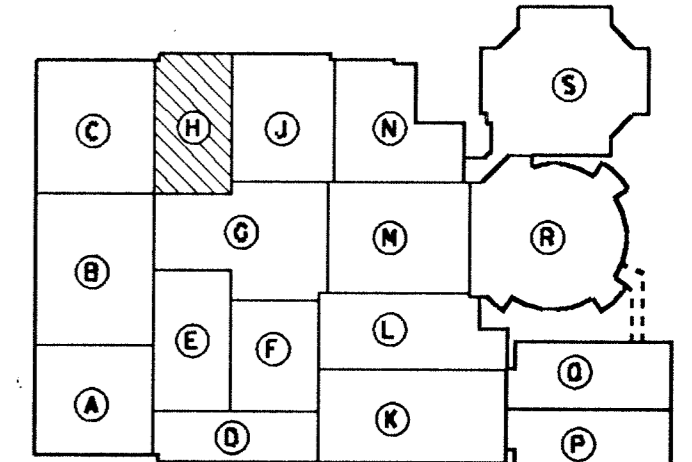
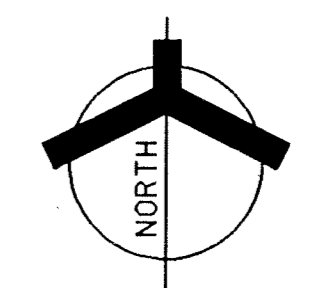
- PLAN NOTES:**
- SEE SHEET M0-1 THRU M0-5 FOR GENERAL NOTES, LEGEND AND SCHEDULES.
 - 24" X 24" RETURN/EXHAUST AIR GRILLE, (G-1) WITH FIRE DAMPER.
 - 24" X 12" RETURN/EXHAUST AIR GRILLE, (G-2) WITH FIRE DAMPER.
 - 12" X 12" RETURN/EXHAUST AIR GRILLE, (G-3) WITH FIRE DAMPER.
 - ALL GRILLES, REGISTERS AND DIFFUSERS PENETRATING THE CEILING SHALL BE PROTECTED WITH RADIATION DAMPERS AND THERMAL INSULATING BLANKETS.
 - 32" X 32" EXHAUST DUCT UP TO EF-H1 ON ROOF.
 - INTERLOCK AUTOMATIC DAMPER TO CANOPY #74 EXHAUST FAN SO DAMPER WILL PARTIALLY CLOSE ALLOWING 295 CFM TO BE EXHAUSTED WHEN EXHAUST FAN IS ENERGIZED. DAMPER TO FULLY OPEN WHEN HOOD IS DEENERGIZED.
 - INTERLOCK AUTOMATIC DAMPER TO CANOPY #49 EXHAUST FAN SO DAMPER WILL PARTIALLY CLOSE ALLOWING 750 CFM TO BE EXHAUSTED WHEN EXHAUST FAN IS ENERGIZED. DAMPER TO FULLY OPEN WHEN HOOD IS DEENERGIZED.
 - INTERLOCK AUTOMATIC DAMPER TO CANOPY #60 EXHAUST FAN ETC. ABOVE.
 - 14" X 14" EXHAUST DUCT UP THROUGH ROOF TO EF-H2.
 - 20" X 20" EXHAUST DUCT UP TO EF-H3 ON ROOF.
 - ALL DUCT SIZES SHOWN ARE CLEAR OPENING AREA DIMENSIONS. SHEET METAL CONTRACTOR SHALL FABRICATE LINED DUCT TO MAINTAIN DIMENSIONS.
 - ALL LOW VELOCITY SUPPLY AND RETURN AIR DUCTS SHALL BE LINED WITH 2" THICK, 3 POUND DENSITY ACOUSTICAL INSULATION.
 - SEE REFLECTED CEILING PLAN SHEET A6-3 FOR FINAL DIFFUSER, GRILLE AND REGISTER LOCATIONS FOR THIS AREA.
 - SEE SHEET M7-10 FOR MISCELLANEOUS PIPING.
 - 46"X20" ACOUSTICALLY LINED RETURN AIR DUCT TO AHU-9.
 - 46"X40" RETURN AIR DUCT UP TO AHU-9 IN PENTHOUSE #3.
 - 36" CA UP TO AHU-2 IN PENTHOUSE #3.
 - 42"X40" RETURN AIR UP TO AHU-2 IN PENTHOUSE #3.
 - 84"X34" RETURN AIR OPENING SERVES AHU-2 IN PENTHOUSE #3.
 - 32" CA DUCT UP TO AHU-14 IN UNIT "H" PENTHOUSE #3.
 - 40"X32" RETURN AIR DUCT UP TO AHU-14 IN PENTHOUSE #3.
 - 26" CA, 30" CA AND 24" CA DUCTS UP TO AHU-9 IN PENTHOUSE #3.
 - 38"X16" LOW VELOCITY SUPPLY AIR DUCT UP TO AHU-16 IN PENTHOUSE #3.
 - 28"X16" RETURN AIR DUCT UP TO AHU-16.
 - 18"X18" DUCT UP TO EF-H4 ON ROOF. EXHAUST DUCTS TO SLOPE BACK TO DISHWASHER.
 - NEW RELIEF HOOD ON ROOF. SEE SCHEDULE ON SHEET M0-3 FOR THROAT DIMENSIONS. AUTOMATIC DAMPER BY T.C.C.
 - TEMPERATURE ELEMENT TO DDC SYSTEM.
 - DROP 24X6 AND 26X10 STAINLESS STEEL EXHAUST DUCTS DOWN TO DISHWASHER EXHAUST COLLAR. TRANSITION DUCT TO 24X4 DISHWASHER EXHAUST COLLAR.
 - END OF DUCT PRESSURE TRANSMITTER TO AHU-9.

- CONTRACT #:** Sheet M3-10:
- Add the Following to the End of Note 27: "Relief Hood to be provided and installed by Roofing Contractor."
 - Revise Note 13 to Read as Follows: "Low velocity supply and return air ducts shall be lined with 1" thick, 1-1/2 pound density acoustical insulation."
 - 8 feet west of Column Lines T-12, delete reference to Note 34 pointing to the 28" x 16" R.A. duct and insert reference to Note 13.
 - Add the Following Note 31 to Sheet: "Exhaust Canopy 60A, See Sheets K5 and K7 for size and location. The Kitchen Contractor shall provide Canopy and Exhaust Fan."
 - Add the Following Note 32 to Sheet: "Exhaust Canopy 49A, See Sheets K5 and K7 for size and location. The Kitchen Contractor shall provide Canopy and Exhaust Fan."
 - Add the Following Note to Sheet:
"33. Transition from a 24" round C.A. supply duct to an 18" C.A. flat oval."
 - Add the Following Note to Sheet:
"34. Return Air Duct shall be lined with 2 inch thick, 3 pound density acoustical insulation."
 - Delete Note 9 as written and insert the following:
"9. Interlock Automatic Damper to Canopy #60 Exhaust Fan so damper will partially close allowing 750 cfm to be exhausted when exhaust fan is energized. Damper to fully open when hood exhaust fan is de-energized."



UNIT "H" HEATING, VENTILATING AND AIR CONDITIONING FLOOR PLAN

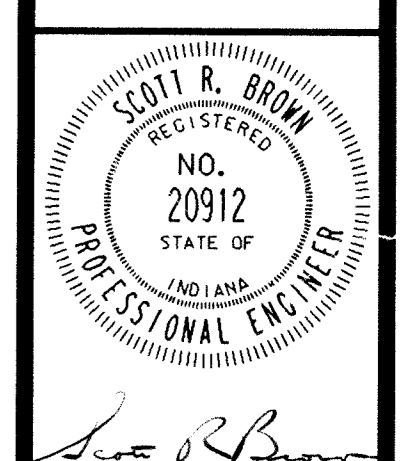
SCALE: 1/8" = 1'-0"



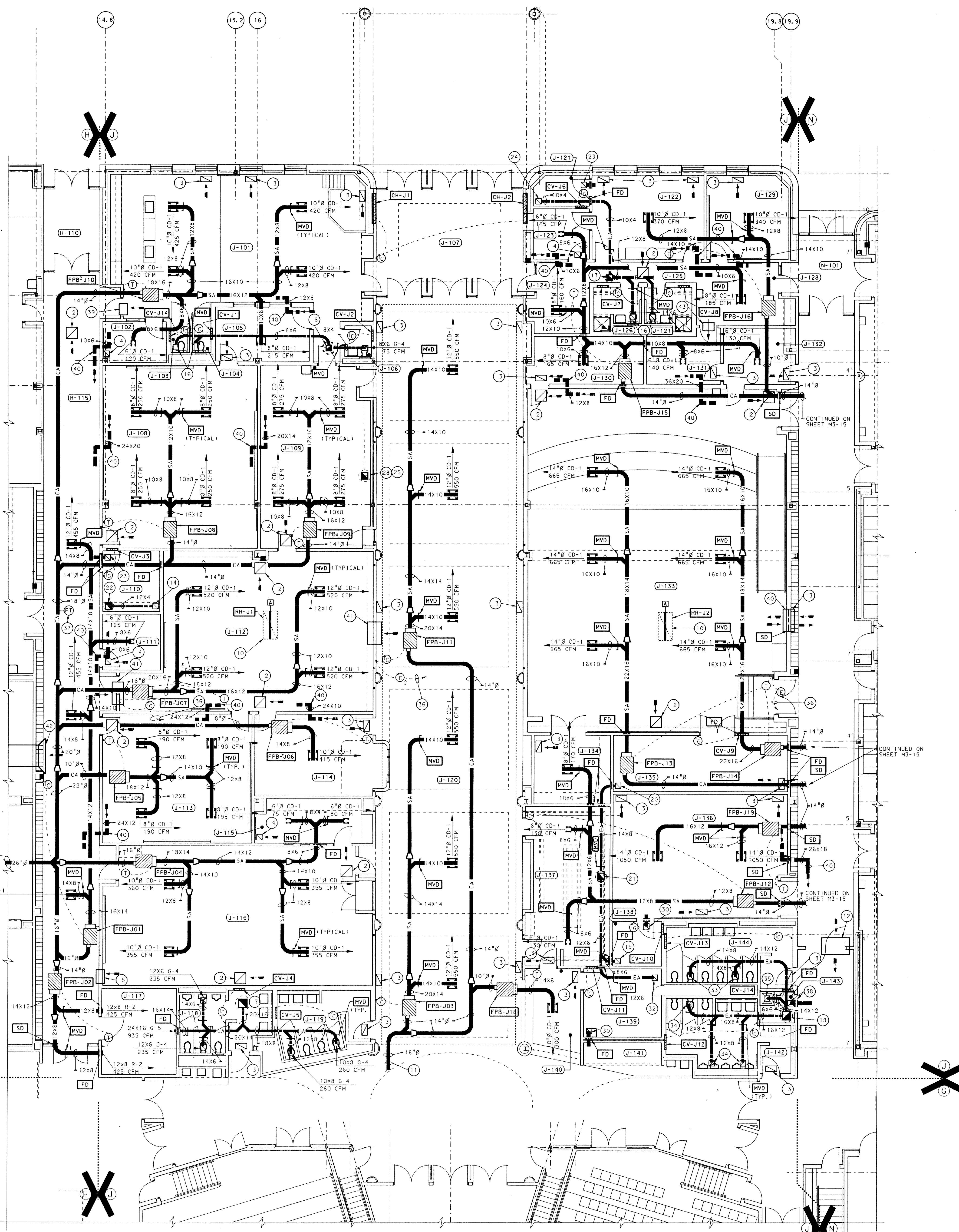
KEY PLAN
NOT TO SCALE

ADDITION TO and RENOVATION OF LAWRENCE CENTRAL HIGH SCHOOL
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 MARION COUNTY, INDIANA

EVERETT I. Company
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 950 NORTH MERIDIAN STREET
 INDIANAPOLIS, INDIANA 46204
 (317) 237-1000



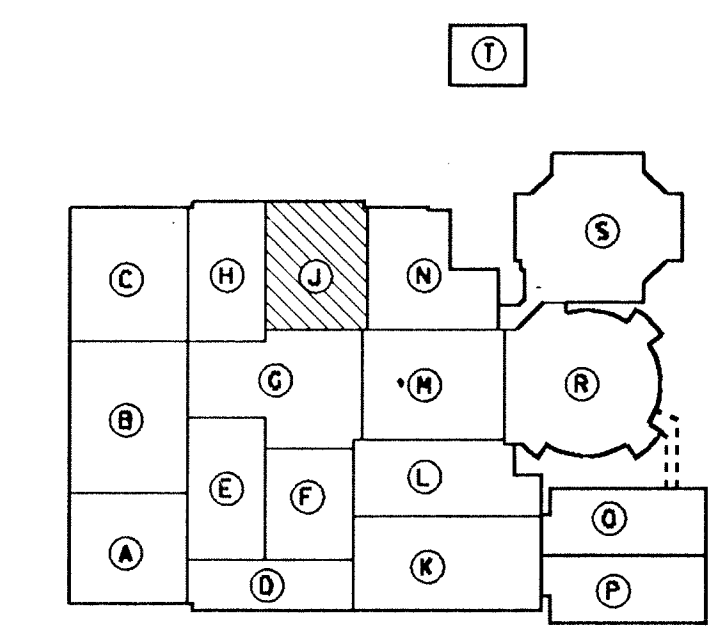
PROJECT 871-110
DATE DEC. 18, 1989
REVISED



- PLAN NOTES:**
- SEE SHEET M0-1 THRU M0-5 FOR GENERAL NOTES, LEGEND AND SCHEDULES.
 - 24"x24" RETURN AIR GRILLE, G-1.
 - 24"x12" RETURN AIR GRILLE, G-2.
 - 12"x12" RETURN AIR GRILLE, G-3.
 - 30"x24" TRANSFER DUCT ABOVE CEILING.
 - 14"x14" DUCT UP TO ROOF EXHAUST FAN EF-J1.
 - 18"x18" DUCT UP TO ROOF EXHAUST FAN EF-J2.
 - 48"x30" TRANSFER DUCT ABOVE CEILING.
 - SEE REFLECTED CEILING PLAN, SHEET A6-4 FOR FINAL DIFFUSER, GRILLE AND REGISTER LOCATIONS FOR THIS AREA.
 - NEW RELIEF HOOD ON ROOF. SEE SCHEDULE ON SHEET M0-3 FOR THROAT SIZES. AUTOMATIC DAMPER BY T.C.C.
 - SEE SHEET M3-7 FOR CONTINUATION OF DUCT TO AHU-6.
 - 60"x36" RETURN/RELIEF TRANSFER DUCT ABOVE CEILING.
 - 48"x24" TRANSFER OPENING WITH SMOKE DAMPER.
 - 8"x6" G-4 EXHAUST GRILLE, 115 CFM.
 - 12"x6" EXHAUST GRILLE, G-4, 140 CFM.
 - 8"x6" EXHAUST GRILLE, G-4, 100 CFM EACH.
 - 14"x14" DUCT UP TO ROOF EXHAUST FAN EF-J3.
 - 14"x14" DUCT UP TO ROOF EXHAUST FAN EF-J4.
 - 6"x6" G-4 EXHAUST GRILLE, 70 CFM.
 - 12"x12" G-4 EXHAUST GRILLE, 310 CFM.
 - 14"x14" EXHAUST DUCT UP TO ROOF EXHAUST FAN EF-J5.
 - 14"x14" EXHAUST DUCT UP TO ROOF EXHAUST FAN EF-J6.
 - 12"x12" TRANSFER GRILLE, G-4 CONNECTED TO 14X8 TRANSFER DUCT WITH FIRE DAMPER AT WALL.
 - 6"x6" EXHAUST GRILLE G-4, 120 CFM.
 - ALL GRILLES, REGISTERS AND DIFFUSERS PENETRATING THE CEILING SHALL BE PROTECTED WITH RADIATION DAMPERS AND THERMAL INSULATING BLANKETS.
 - ALL DUCT SIZES SHOWN ARE CLEAR OPEN AREA DIMENSIONS. SHEET METAL CONTRACTOR SHALL FABRICATE LINED DUCT TO MAINTAIN DIMENSIONS.
 - LOW VELOCITY SUPPLY AIR DUCTS SHALL BE LINED WITH 1 INCH 1/2 POUND DENSITY ACOUSTICAL INSULATION.
 - 14"x14" DUCT DOWN TO CANOPY HOOD COLLAR.
 - 14"x14" DUCT UP TO ROOF EXHAUST FAN EF-J7.
 - 8"x6" G-4 TRANSFER GRILLE WITH 10"x6" DUCT AND FIRE DAMPER. SEE SHEET M7-11 FOR PIPING PLANS.
 - 10X6 EXHAUST GRILLE G-4, 170 CFM.
 - 12X10 EXHAUST GRILLE G-4, 340 CFM EACH.
 - 12X6 EXHAUST GRILLE G-4, 240 CFM EACH.
 - 6X6 EXHAUST GRILLE G-4, 35 CFM.
 - TEMPERATURE ELEMENT TO DDC SYSTEM.
 - END OF RUN DUCT PRESSURE TRANSMITTER FOR AHU #9
 - 8"x6" G-4 TRANSFER GRILLE WITH 10"x6" DUCT. PROVIDE FIRE AND SMOKE DAMPER IN DUCT.
 - 24"x20" TRANSFER DUCT.
 - RETURN/RELIEF 12" DUCT TRANSFER OPENING IN WALL ABOVE CEILING. SEE SHEET M6-2 FOR TYPICAL DETAIL.
 - 48"x24" RETURN/RELIEF TRANSFER DUCT ABOVE CEILING.
 - 78"x20" RA OPENING, TRANSITION TO 46"x20". FOR CONTINUATION SEE SHEET M3-10. DUCT SERVES AHU-9.
 - 24"x16" RETURN/RELIEF TRANSFER DUCT ABOVE CEILING.

ROOM NAME SCHEDULE	
NO	NAME
J-101	HOME ECONOMICS
J-102	OFFICE
J-103	TOILET
J-104	TOILET
J-105	OFFICE
J-106	TOILET
J-107	VESTIBULE
J-108	RECITATION
J-109	CATERING
J-110	STORAGE
J-111	OFFICE
J-112	FOODS LABORATORY
J-113	RECITATION
J-114	LIVING DINING
J-115	DRESSING
J-116	SEWING LABORATORY
J-117	ELECTRICAL
J-118	MEN
J-119	WOMEN
J-120	HALL OF FAME
J-121	STORAGE
J-122	PERFORMING ARTS OFFICE
J-123	BOX OFFICE
J-124	SECRETARY
J-125	PASSAGE
J-126	TOILET
J-127	TOILET
J-128	WORKROOM
J-129	CONFERENCE
J-130	COSTUMES
J-131	MUSIC LIBRARY
J-132	OFFICE
J-133	CHORAL
J-134	PROPS
J-135	PLATFORM STORAGE
J-136	ELECTRONIC MUSIC
J-137	COATS
J-138	STORAGE
J-139	STORAGE
J-140	CONCESSIONS
J-141	VENDING
J-142	BOYS
J-143	CUSTODIAN
J-144	GIRLS

- CONTRACT #4:** Sheet M3-11:
- Add the following to the end of Note 10: "Relief Hood to be provided and installed by Roofing Contractor."
 - Delete Reference Note 40 located at the 48" x 24" transfer duct above east wall in the Choral Room J-133.
 - In Room J-110 - Storage, add a manual volume damper in the 12" x 4" exhaust duct.
 - In Toilet Rooms J-118 and J-119, add a 26" x 8" transfer duct. Connect the 24 x 12 G-2 grille to the transfer duct.



UNIT "J" HEATING, VENTILATING AND AIR CONDITIONING FLOOR PLAN
 SCALE: 1/8" = 1'-0"

LOG. NO. SHEET: 155-555
 LOG. NO. 110
 LOG. NO. 115
 LOG. NO. 120
 LOG. NO. 125
 LOG. NO. 130
 LOG. NO. 135
 LOG. NO. 140
 LOG. NO. 145
 LOG. NO. 150
 LOG. NO. 155
 LOG. NO. 160
 LOG. NO. 165
 LOG. NO. 170
 LOG. NO. 175
 LOG. NO. 180
 LOG. NO. 185
 LOG. NO. 190
 LOG. NO. 195
 LOG. NO. 200

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EVERETT I. BROWN Company
EDBROWN & Engineers
 Architects & Engineers
 950 NORTH MERIDIAN STREET
 INDIANA 46204
 1317-237-7000

PROJECT: 871-110
 DATE: DEC. 18, 1989
 REVISED:

NO. M3-11
 OF 22

PLAN NOTES:

- 1 SEE SHEET M0-1 THRU M0-5 FOR GENERAL NOTES, LEGEND AND SCHEDULES.
- 2 24"x24" G-1 RETURN AIR GRILLE.
- 3 24"x12" G-1 RETURN AIR GRILLE.
- 4 12"x12" G-1 RETURN AIR GRILLE.
- 5 20"x20" EXHAUST DUCT UP TO EF-K1 ON ROOF.
- 6 10"Ø DOWN TO DEMONSTRATION FUME HOOD. 18"x18" UP TO UPBLAST EXHAUST FAN EF-K2.
- 7 20"x20" EXHAUST DUCT UP TO EF-K3, ON ROOF.
- 8 TWO 11"x3" EXHAUST DUCTS FROM ISLAND LAB TABLE HOODS CONNECTED TO 12"x12" EXHAUST DUCT RUN UP IN CHASE TO ABOVE CEILING. FIRE DAMPER IN 12"x12" DUCT AT CEILING.
- 9 3"x11" CONNECTION FROM LAB TABLE HOOD DOWN TO 5"x10" PLENUM BEHIND CABINETS.
- 10 5"x10" PLENUM BEHIND CABINETS - EXTEND TO 12"x12" DUCT IN CHASE.
- 11 12"x12" EXHAUST DUCT RUN UP TO ABOVE CEILING IN DRYWALL CHASE. FIRE DAMPER IN 12"x12" EXHAUST DUCT AT CEILING.
- 12 8"x14" PLENUM.
- 13 EXTEND 11"x3" CONNECTION FROM LAB TABLE HOOD TO 8"x14" PLENUM RUN BEHIND CABINETS.
- 14 ALL GRILLES, REGISTERS AND DIFFUSERS PENETRATING THE CEILING SHALL BE PROTECTED WITH RADIATION DAMPERS AND THERMAL INSULATING BLANKETS.
- 15 14"x14" EXHAUST DUCT UP TO EF-K4 ON ROOF.
- 16 14"x14" EXHAUST DUCT UP TO EF-K5 ON ROOF.
- 17 14"x14" EXHAUST DUCT UP TO EF-K6 ON ROOF.
- 18 14"x14" EXHAUST DUCT UP TO EF-K7 ON ROOF.
- 19 14"x14" EXHAUST DUCT UP TO EF-K8 ON ROOF.
- 20 20"x20" EXHAUST DUCT UP TO EF-K9 ON ROOF.
- 21 10"Ø DOWN TO 9"Ø DUCT COLLAR ON FUMEHOOD. DUCT TO BE STAINLESS STEEL WHERE EXPOSED IN ROOM.
- 22 14"x14" EXHAUST DUCT UP TO EF-K10 ON ROOF.
- 23 14"x14" EXHAUST DUCT UP TO EF-K11 ON ROOF.
- 24 14"x14" EXHAUST DUCT UP TO EF-K12 ON ROOF.
- 25 20"x20" EXHAUST DUCT UP TO EF-K13 ON ROOF.
- 26 14"x14" EXHAUST DUCT UP TO EF-K14 ON ROOF.
- 27 20"x20" EXHAUST DUCT UP TO EF-K15 ON ROOF.
- 28 20"x20" EXHAUST DUCT UP TO EF-K16 ON ROOF.
- 29 14"x14" EXHAUST DUCT UP TO EF-K17 ON ROOF.
- 30 36"x36" AIR TRANSFER OPENING.
- 31 RETURN AIR DUCT TO BE LINED WITH 2" THICK 3 POUND DENSITY ACOUSTICAL INSULATION.
- 32 12"x12" EXHAUST DUCT UP TO EF-K28 ON ROOF.
- 33 SEE SHEET M7-12 FOR MISCELLANEOUS PIPING.
- 34 ALL DUCT SIZES SHOWN ARE CLEAR OPENING AREA DIMENSION. SHEET METAL CONTRACTOR SHALL FABRICATE LINED DUCT TO MAINTAIN DIMENSION.
- 35 ALL LOW VELOCITY SUPPLY AIR DUCTS SHALL BE LINED WITH 1 INCH 1/2 POUND DENSITY ACOUSTICAL INSULATION.
- 36 OFFSET 24"x49"Ø SUPPLY DUCT UP INTO PENTHOUSE #5. SEE SHEET M5-5A FOR CONTINUATION.

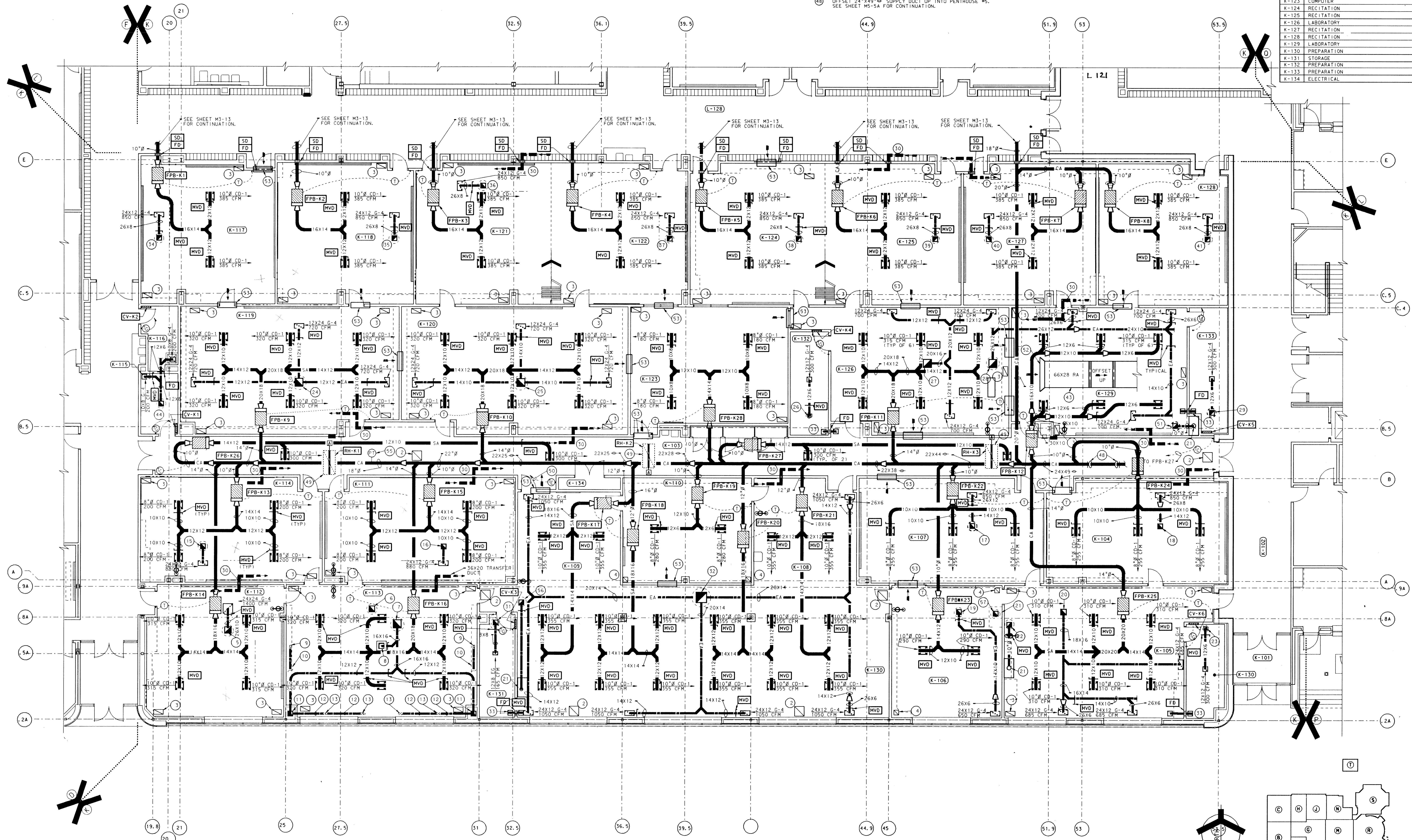
- 37 14"x14" EXHAUST DUCT UP TO EF-K18 ON ROOF.
- 38 32"x32" EXHAUST DUCT UP TO EF-K19 ON ROOF.
- 39 12"x12" TRANSFER GRILLE AND DUCT WITH FIRE DAMPER.
- 40 14"x14" EXHAUST DUCT UP TO EF-K20 ON ROOF.
- 41 14"x14" EXHAUST DUCT UP TO EF-K21 ON ROOF.
- 42 14"x14" EXHAUST DUCT UP TO EF-K22 ON ROOF.
- 43 14"x14" EXHAUST DUCT UP TO EF-K23 ON ROOF.
- 44 14"x14" EXHAUST DUCT UP TO EF-K24 ON ROOF.
- 45 14"x14" EXHAUST DUCT UP TO EF-K25 ON ROOF.
- 46 14"x14" EXHAUST DUCT UP TO EF-K26 ON ROOF.
- 47 14"x14" EXHAUST DUCT UP TO EF-K27 ON ROOF.
- 48 36"x36" AIR TRANSFER OPENING.
- 49 RETURN AIR DUCT TO BE LINED WITH 2" THICK 3 POUND DENSITY ACOUSTICAL INSULATION.
- 50 12"x12" EXHAUST DUCT UP TO EF-K28 ON ROOF.
- 51 SEE SHEET M7-12 FOR MISCELLANEOUS PIPING.
- 52 ALL DUCT SIZES SHOWN ARE CLEAR OPENING AREA DIMENSION. SHEET METAL CONTRACTOR SHALL FABRICATE LINED DUCT TO MAINTAIN DIMENSION.
- 53 ALL LOW VELOCITY SUPPLY AIR DUCTS SHALL BE LINED WITH 1 INCH 1/2 POUND DENSITY ACOUSTICAL INSULATION.
- 54 OFFSET 24"x49"Ø SUPPLY DUCT UP INTO PENTHOUSE #5. SEE SHEET M5-5A FOR CONTINUATION.

- 55 NEW RELIEF HOOD ON ROOF. SEE SCHEDULE ON SHEET M0-3 FOR THROAT SIZE. AUTOMATIC DAMPER BY T.C.C.
- 56 TEMPERATURE ELEMENT TO DDC SYSTEM.
- 57 14"x14" EXHAUST DUCT UP TO EF-K29.
- 58 66"x28" RETURN AIR DUCT TO AHU-12. PROVIDE 84"x28" NOSE ON DUCT.
- 59 48"x30" AIR TRANSFER DUCT INSTALLED ABOVE CEILING.
- 60 84"x28" TRANSFER AIR DUCT INSTALLED ABOVE CEILING.
- 61 END OF RUN DUCT PRESSURE TRANSMITTER FOR AHU #12.
- 62 14"x14" EXHAUST DUCT UP TO EF-K30.
- 63 14"x14" EXHAUST DUCT UP TO EF-K31.

CONTRACT #4: Sheet M3-12:

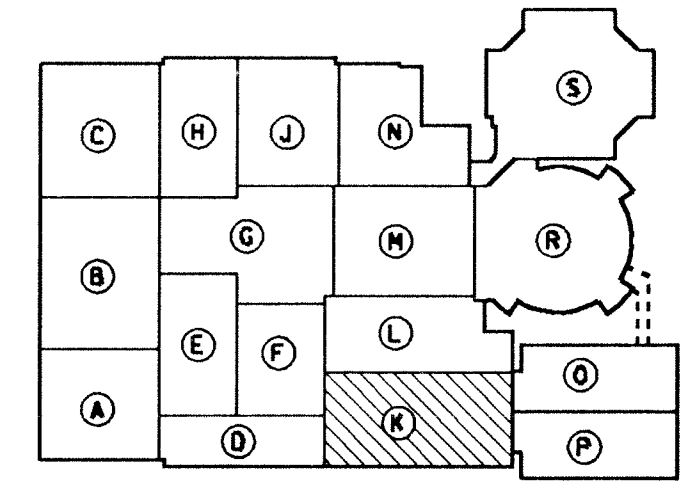
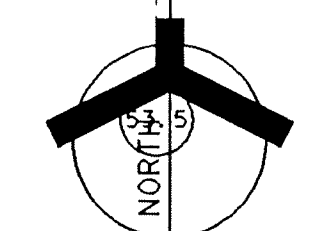
A. Add the following at the end of Note 49: "Relief Hood to be provided and installed by the Roofing Contractor."

ROOM NAME SCHEDULE	
NO	NAME
K-101	VESTIBULE
K-102	CORRIDOR
K-103	CORRIDOR
K-104	RECITATION
K-105	LABORATORY
K-106	PROJECTS
K-107	RECITATION
K-108	PREPARATION
K-109	PREPARATION
K-110	DEPARTMENT OFFICE
K-111	RECITATION
K-112	RECITATION
K-113	LABORATORY
K-114	LABORATORY
K-115	STORAGE
K-116	CUSTODIAN
K-117	RECITATION
K-118	RECITATION
K-119	LABORATORY
K-120	LABORATORY
K-121	RECITATION
K-122	RECITATION
K-123	COMPUTER
K-124	RECITATION
K-125	RECITATION
K-126	LABORATORY
K-127	RECITATION
K-128	RECITATION
K-129	LABORATORY
K-130	PREPARATION
K-131	STORAGE
K-132	PREPARATION
K-133	PREPARATION
K-134	ELECTRICAL



UNIT "K" HEATING, VENTILATING & AIR CONDITIONING FLOOR PLAN

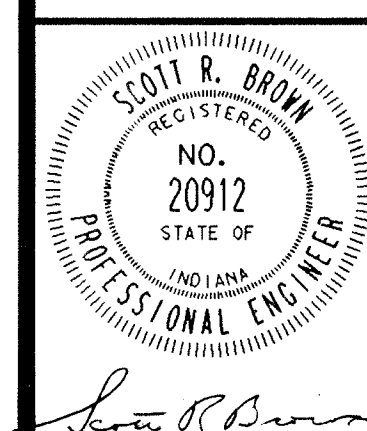
SCALE: 1/8" = 1'-0"



KEY PLAN NOT TO SCALE

ADDITION TO and RENOVATION OF
LAWRENCE CENTRAL HIGH SCHOOL
 for the METROPOLITAN SCHOOL DISTRICT of LAWRENCE TOWNSHIP
 MARION COUNTY, INDIANA

EVERETT BROWN Company
 Architects & Engineers
 950 NORTH MERIDIAN STREET
 INDIANAPOLIS, INDIANA 46204
 (317) 527-1000



PROJECT 871-110
 DATE DEC. 18, 1989
 REVISED

ROOM NAME SCHEDULE

NO	NAME
L-101	BOYS
L-102	CUSTODIAN
L-103	GIRLS
L-104	OFFICE
L-105	MATH DEPARTMENT WORK ROOM
L-106	STORAGE
L-107	BOYS DRESSING ROOM
L-108	BOYS
L-109	GIRLS DRESSING ROOM
L-110	GIRLS
L-111	STUDENT COUNCIL
L-112	CORRIDOR
L-113	CORRIDOR
L-114	GROUP INSTRUCTION
L-115	CONTROLS
L-116	SCIENCE LABORATORY
L-117	SCIENCE LABORATORY
L-118	COMPUTER
L-119	WEIGHTS
L-120	OFFICE
L-121	CORRIDOR
L-122	GROSS MOTOR SKILLS
L-123	IN-SCHOOL SUSPENSION
L-124	VESTIBULE
L-125	CORRIDOR
L-126	CORRIDOR
L-127	PLATFORM
L-128	CORRIDOR
L-129	STORAGE
L-130	PASSAGE
L-131	PASSAGE

PLAN NOTES:

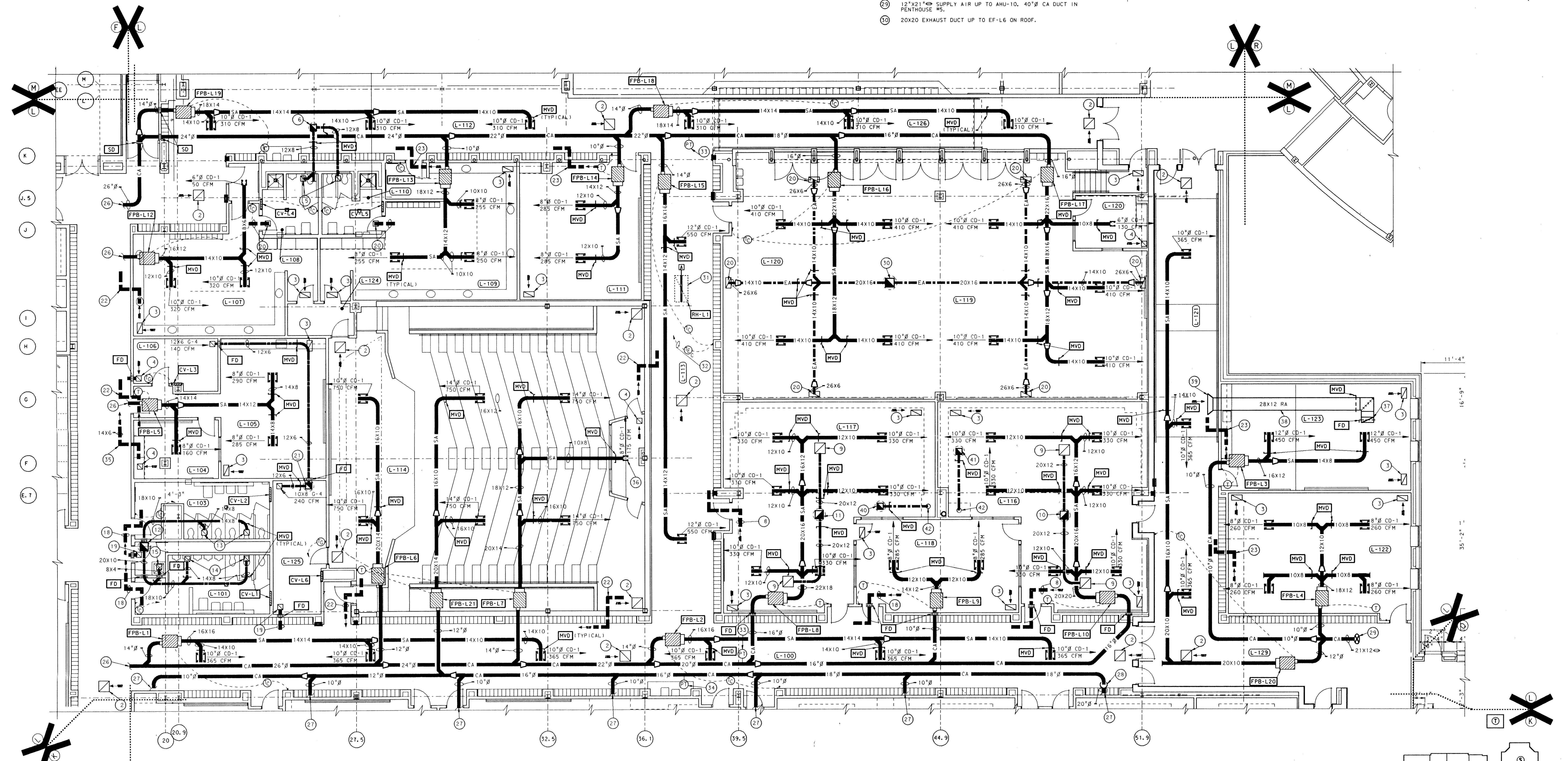
- 1 SEE SHEET M0-1 THRU M0-5 FOR GENERAL NOTES, LEGEND AND SCHEDULES.
- 2 24X24 RETURN AIR GRILLE, G-1.
- 3 24X12 RETURN AIR GRILLE, G-2.
- 4 12X12 RETURN AIR GRILLE, G-3.
- 5 12X10 G-4 EXHAUST GRILLE, 345 CFM.
- 6 14X14 UP TO ROOF EXHAUST FAN REF-L1.
- 7 FOR CONTINUATION, SEE SHEET M3-6.
- 8 30X18 TRANSFER "Z" DUCT, SEE SHEET M6-2 FOR TYPICAL DETAIL.
- 9 24X18 G-4 EXHAUST GRILLE, 1100 CFM EACH.
- 10 20X20 EXHAUST DUCT UP TO ROOF EXHAUST FAN REF-L2.
- 11 20X20 EXHAUST DUCT UP TO ROOF EXHAUST FAN REF-L3.
- 12 20X20 EXHAUST DUCT UP TO ROOF EXHAUST FAN REF-L4.
- 13 12X12 G-4 EXHAUST GRILLE, 365 CFM EACH.
- 14 12X12 G-4 EXHAUST GRILLE, 390 CFM EACH.
- 15 8X6 G-4 EXHAUST GRILLE, 115 CFM.
- 16 ALL GRILLES, REGISTERS AND DIFFUSERS PENETRATING THE CEILING SHALL BE PROTECTED WITH RADIATION DAMPERS AND THERMAL INSULATING BLANKETS.
- 17 SEE SHEET M7-13 FOR MISCELLANEOUS PIPING PLAN.
- 18 24X8 TRANSFER DUCT LOCATED IN WALL.
- 19 12X12 TRANSFER GRILLE, CONNECTED TO 12X6 TRANSFER DUCT WITH FIRE DAMPER.
- 20 24X12 G-2 EXHAUST GRILLE, 630 CFM EACH.
- 21 14X14 EXHAUST DUCT UP TO ROOF EXHAUST FAN REF-L5.
- 22 24X24 TRANSFER "Z" DUCT, SEE SHEET M6-2 FOR TYPICAL DETAIL.
- 23 24X16 TRANSFER "Z" DUCT, SEE SHEET M6-2 FOR TYPICAL DETAIL.
- 24 ALL DUCT SIZES SHOWN ARE CLEAR OPENING AREA DIMENSIONS. SHEET METAL CONTRACTOR SHALL FABRICATE LINED DUCT TO MAINTAIN CLEAR DIMENSIONS.
- 25 ALL LOW VELOCITY SUPPLY AIR DUCTS SHALL BE LINED WITH 1" THICK, 1/2 POUND DENSITY ACOUSTICAL INSULATION.
- 26 SEE SHEET M3-6 FOR CONTINUATION.
- 27 SEE SHEET M3-12 FOR CONTINUATION.
- 28 20" CA DUCT TO RISE UP BETWEEN EXISTING JOISTS SPACE.
- 29 12"X21" SUPPLY AIR UP TO AHU-10, 40" CA DUCT IN PENTHOUSE #5.
- 30 20X20 EXHAUST DUCT UP TO EF-L6 ON ROOF.

- 31 NEW RELIEF HOOD ON ROOF, SEE SCHEDULE ON SHEET M0-3 FOR THROAT SIZE, AUTOMATIC DAMPER BY T.C.C.
- 32 TEMPERATURE ELEMENT TO DDC SYSTEM.
- 33 END OF RUN DUCT PRESSURE TRANSMITTER TO AHU #3
- 34 END OF RUN DUCT PRESSURE TRANSMITTER TO AHU #12
- 35 RETURN/RELIEF "Z" DUCT, SEE SHEET M6-2 FOR TYPICAL DETAIL.
- 36 12X12 CD-1 WITH 8" NECK.
- 37 28X12 RETURN AIR DUCT UP TO AHU-10 LOCATED IN PENTHOUSE #5.
- 38 RETURN AIR DUCT TO BE LINED WITH 2" THICK, 3 POUND DENSITY ACOUSTICAL INSULATION.
- 39 48X12 RETURN AIR OPENING, TRANSITION TO 28X12.
- 40 14X14 EXHAUST DUCT UP TO EF-L7 ON ROOF.
- 41 14X14 EXHAUST DUCT UP TO EF-L8 ON ROOF.
- 42 10" DOWN TO 9" DUCT COLLAR ON FUMEHOOD, DUCT TO BE STAINLESS STEEL WHERE EXPOSED IN ROOM.

CONTRACT #:

Sheet M3-13:

A. Add the following at the end of Note 31: "Relief Hood to be provided and installed by the Roofing Contractor."

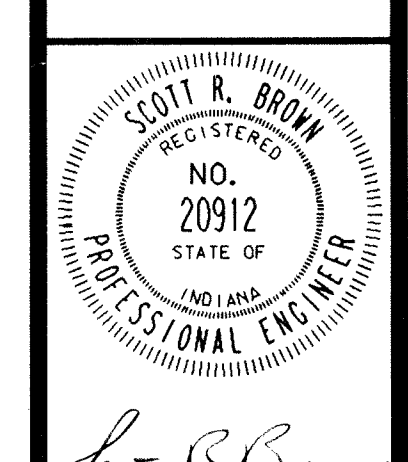


UNIT "L" HEATING, VENTILATING AND AIR CONDITIONING FLOOR PLAN
SCALE: 1/8" = 1'-0"

Loop name: A10G, A14, A15, A16, A17, A18, A19, A20, A21, A22, A23, A24, A25, A26, A27, A28, A29, A30, A31, A32, A33, A34, A35, A36, A37, A38, A39, A40, A41, A42, A43, A44, A45, A46, A47, A48, A49, A50, A51, A52, A53, A54, A55, A56, A57, A58, A59, A60, A61, A62, A63, A64, A65, A66, A67, A68, A69, A70, A71, A72, A73, A74, A75, A76, A77, A78, A79, A80, A81, A82, A83, A84, A85, A86, A87, A88, A89, A90, A91, A92, A93, A94, A95, A96, A97, A98, A99, A100, A101, A102, A103, A104, A105, A106, A107, A108, A109, A110, A111, A112, A113, A114, A115, A116, A117, A118, A119, A120, A121, A122, A123, A124, A125, A126, A127, A128, A129, A130, A131, A132, A133, A134, A135, A136, A137, A138, A139, A140, A141, A142, A143, A144, A145, A146, A147, A148, A149, A150, A151, A152, A153, A154, A155, A156, A157, A158, A159, A160, A161, A162, A163, A164, A165, A166, A167, A168, A169, A170, A171, A172, A173, A174, A175, A176, A177, A178, A179, A180, A181, A182, A183, A184, A185, A186, A187, A188, A189, A190, A191, 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ADDITION TO and RENOVATION OF
LAWRENCE CENTRAL HIGH SCHOOL
for the METROPOLITAN SCHOOL DISTRICT of LAWRENCE TOWNSHIP
MARION COUNTY, INDIANA

EVERETT I. Company
EDBROWN
Architects & Engineers
950 NORTH MERIDIAN STREET
INDIANAPOLIS, INDIANA 46204
(317) 237-1000

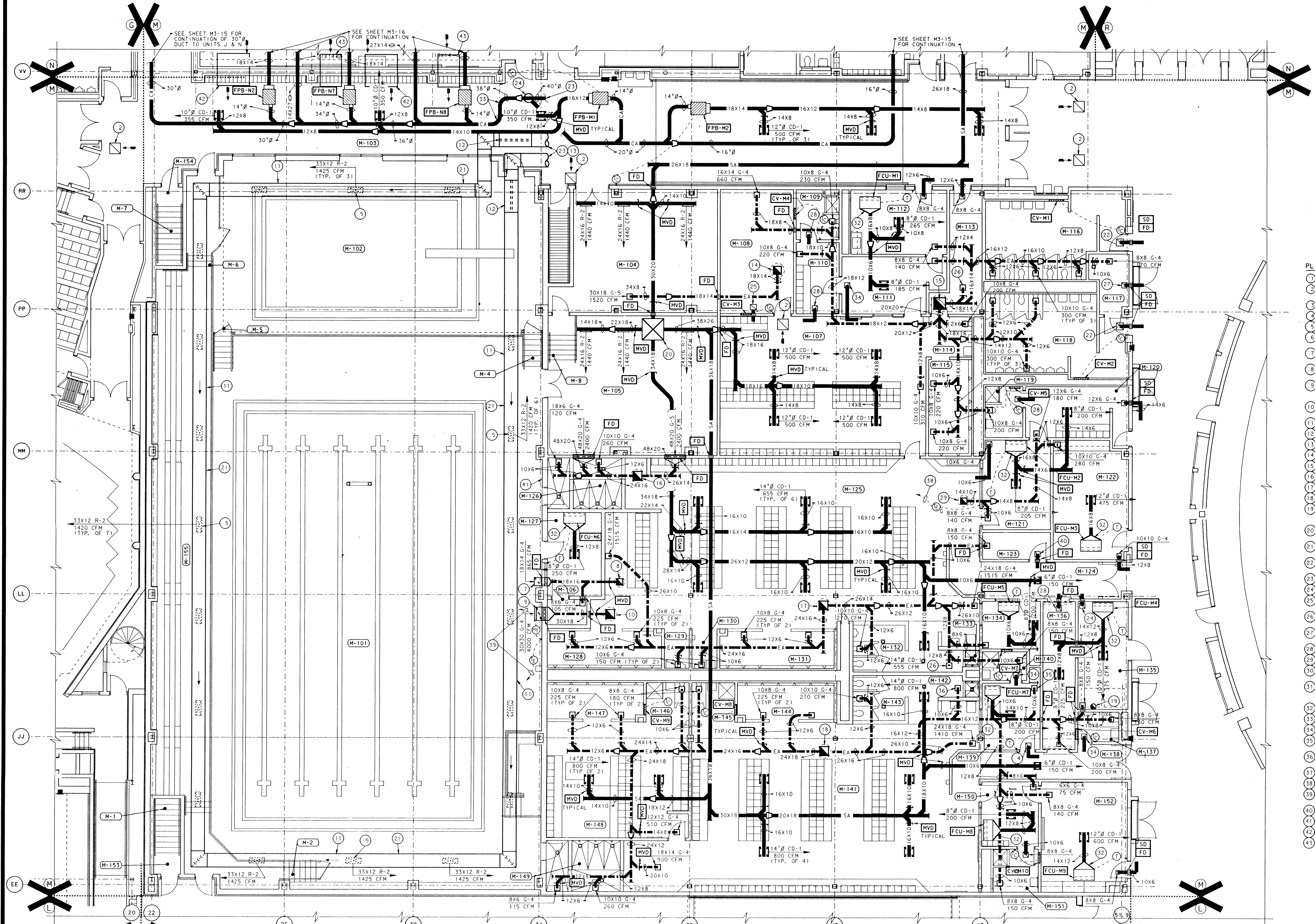


PROJECT
871-110
DATE
DEC. 18, 1989
REVISED

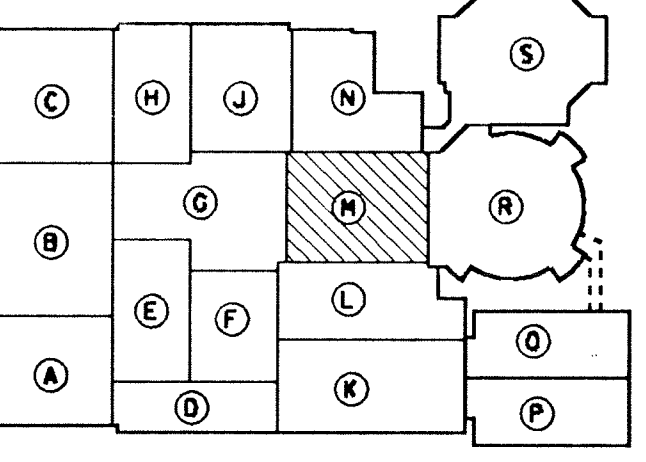
NO. M3-13
OF 22

NO	NAME
M-101	SWIMMING POOL
M-102	DIVING POOL
M-103	CORRIDOR
M-104	MECHANICAL EQUIPMENT
M-105	MECHANICAL EQUIPMENT
M-106	STORAGE
M-107	LOCKER ROOM
M-108	STORAGE
M-109	TOILET
M-110	COACHES LOCKER ROOM
M-111	COACHES
M-112	COACHES LOUNGE
M-113	PASSAGE
M-114	TOILET
M-115	SHOWER
M-116	GIRLS
M-117	CUSTODIAN
M-118	BOYS
M-119	TOILET
M-120	OFFICIALS
M-121	OFFICE
M-122	CONFERENCE
M-123	STORAGE
M-124	PASSAGE
M-125	BOYS LOCKER ROOM
M-126	SHOWER
M-127	OFFICE
M-128	SHOWER
M-129	TOILET
M-130	TOILET
M-131	SHOWER
M-132	TOILET
M-133	SHOWER
M-134	OFFICE
M-135	LAUNDRY
M-136	TOWELS
M-137	TOILET
M-138	PASSAGE
M-139	GIRLS COACHES OFFICE
M-140	TOILET
M-141	GIRLS LOCKER ROOM
M-142	SHOWER
M-143	TOILET
M-144	SHOWER
M-145	TOILET
M-146	TOILET
M-147	SHOWER
M-148	VARSITY LOCKERS
M-149	SHOWER
M-150	GIRLS P.E. OFFICE
M-151	TOILET
M-152	P.E. OFFICE
M-153	PASSAGE
M-154	PASSAGE
M-155	SPECTATOR
M-156	STORAGE
M-1	STAIR
M-2	STAIR
M-3	STAIR
M-4	STAIR
M-5	STAIR
M-6	STAIR
M-7	STAIR

- A. In Diving Pool located 30" round supply duct 1'-6" from north wall. Bottom of supply duct shall be 14'-0" from finished floor. The supply ducts shall drop to the 14'-0" invert elevation where the meter elbows are shown prior to entering the diving well in Corridor M-103.
- B. 8'-0" west of Column Line 26RR over Diving Pool, install a 45° elbow. Connect duct to the 30" round duct that runs along the west wall of the Swimming and Diving Pool area.
- C. Delete Note 6 in its entirety.



- PLAN NOTES:**
- SEE SHEET M0-1 THROUGH M0-5 FOR GENERAL NOTES, LEGEND AND SCHEDULES.
 - 24"x24" RETURN/EXHAUST AIR GRILLE. (G-1)
 - 24"x12" RETURN/EXHAUST AIR GRILLE. (G-2)
 - 12"x12" RETURN/EXHAUST AIR GRILLE. (G-3)
 - ALL AIR IN POOL AREA IS TO BE DIFFUSED TOWARD WALL.
 - LINE 60"x36" RETURN AIR DUCT WITH 2 INCH, 3 POUND DENSITY INSULATION.
 - 18"x16" EXHAUST AIR DUCT TO BE INSTALLED 84" BELOW CEILING IN POOL AREA.
 - 14 1/2"x14 1/2" ROOF OPENING UP TO EF-M1. EXHAUST FOR MINIMUM OUTSIDE AIR.
 - 30"x18" EXHAUST AIR DUCT, MOUNT G-4 84" BELOW FINISHED CEILING IN POOL, TRANSITION 30"x18" EXHAUST DUCT TO 30"x30" EXHAUST GRILLE.
 - 20 1/2"x20 1/2" ROOF OPENING UP TO EF-M2. EXHAUST FOR MAXIMUM OUTSIDE AIR.
 - 30" CONTINUOUS SUPPLY AIR DUCT AROUND PERIMETER OF POOL.
 - 6'-0" LONG TEMPMASTER ACOUSTI-CELL IN DUCT SOUND ABSORBER.
 - 12" x30" SUPPLY AIR DUCTS UP TO AHU-8.
 - 18 1/2"x18 1/2" ROOF OPENING UP TO EF-M8.
 - 26 1/2"x26 1/2" ROOF OPENING UP TO EF-M3.
 - 26 1/2"x26 1/2" ROOF OPENING UP TO EF-M4.
 - 26 1/2"x26 1/2" ROOF OPENING UP TO EF-M5.
 - 26 1/2"x26 1/2" ROOF OPENING UP TO EF-M6.
 - 12" STAINLESS STEEL DRYER EXHAUST VENT THRU ROOF. ROOFSECK VENT 24" ABOVE FINISHED ROOF. PROVIDE 14" FLEXIBLE CONNECTION TO DRYER.
 - 44x44 SUPPLY AIR DUCT UP TO AHU #15 LOCATED IN PENTHOUSE #4 SEE SHEET M5-5.
 - ALL DUCTWORK SERVING THE SWIMMING POOL AREA IS TO BE CONSTRUCTED OF STAINLESS STEEL.
 - 16"x16" G-4 TRANSFER AIR GRILLE WITH 18"x10" DUCT AND FIRE DAMPER.
 - SEE SHEET M5-5 FOR CONTINUATION.
 - 40"x20" G-4 AIR TEE DOWN TO CORRIDOR CEILING SPACE.
 - 14"x12" G-4 TRANSFER AIR GRILLE WITH 16"x10" DUCT AND FIRE DAMPER.
 - 8"x8" G-4, 150 CFM EXHAUST GRILLE WITH 12"x6" DUCT WITH MANUAL VOLUME DAMPER.
 - 8"x8" G-4, 150 CFM EXHAUST GRILLE WITH 12"x6" DUCT AND FIRE DAMPER.
 - 10"x8" G-4 TRANSFER AIR GRILLE WITH 12"x6" DUCT.
 - 14 1/2"x14 1/2" ROOF OPENING UP TO EF-M7.
 - ALL LOW VELOCITY SUPPLY AIR DUCTS SHALL BE LINED WITH 1 INCH THICK, 1/2 POUND DENSITY ACOUSTICAL INSULATION.
 - ALL DUCT SIZES SHOWN ARE CLEAR OPENING AREA DIMENSIONS. SHEET METAL CONTRACTOR SHALL FABRICATE LINED DUCT TO MAINTAIN CLEAR OPENING DIMENSIONS.
 - DUCT TRANSITION TO FAN COIL. TYPICAL ALL FAN COIL UNITS. MITERED MEDIUM PRESSURE 38° ELBOW WITH TURNING VANES.
 - 8"x8" G-4 TRANSFER AIR GRILLE WITH 10"x6" DUCT.
 - 8"x8" G-4, 140 CFM EXHAUST GRILLE WITH 10"x6" DUCT WITH MANUAL VOLUME DAMPER.
 - 8"x8" G-4, 150 CFM EXHAUST GRILLE WITH 10"x6" DUCT WITH MANUAL VOLUME DAMPER.
 - SEE SHEET M7-14 FOR MISCELLANEOUS PIPING.
 - SOLID STATE TEMPERATURE ELEMENT TO AHU #15.
 - SOLID STATE TEMPERATURE ELEMENT AND HUMIDITY TRANSMITTER TO AHU #8 MONITORING.
 - 8"x6" G-4 WITH 10"x6" TRANSFER DUCT WITH FIRE DAMPER.
 - FOR RETURN AIR LOUVER LOCATION IN POOL AREA SEE SHEET M5-4.
 - 12"x14" TRANSFER AIR DUCT ABOVE CEILING.
 - 48"x14" TRANSFER AIR DUCT ABOVE CEILING.



UNIT "M" HEATING, VENTILATING & AIR CONDITIONING FLOOR PLAN

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

ADDITION TO and RENOVATION OF LAWRENCE CENTRAL HIGH SCHOOL
for the METROPOLITAN SCHOOL DISTRICT of LAWRENCE TOWNSHIP
MARION COUNTY, INDIANA

EVERETT I. BROWN Company
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950 NORTH MERIDIAN STREET
INDIANAPOLIS, INDIANA 46204
(317) 231-1000

REGISTERED ARCHITECT
NO. 20912
STATE OF INDIANA
PROFESSIONAL ENGINEER
NO. 11474

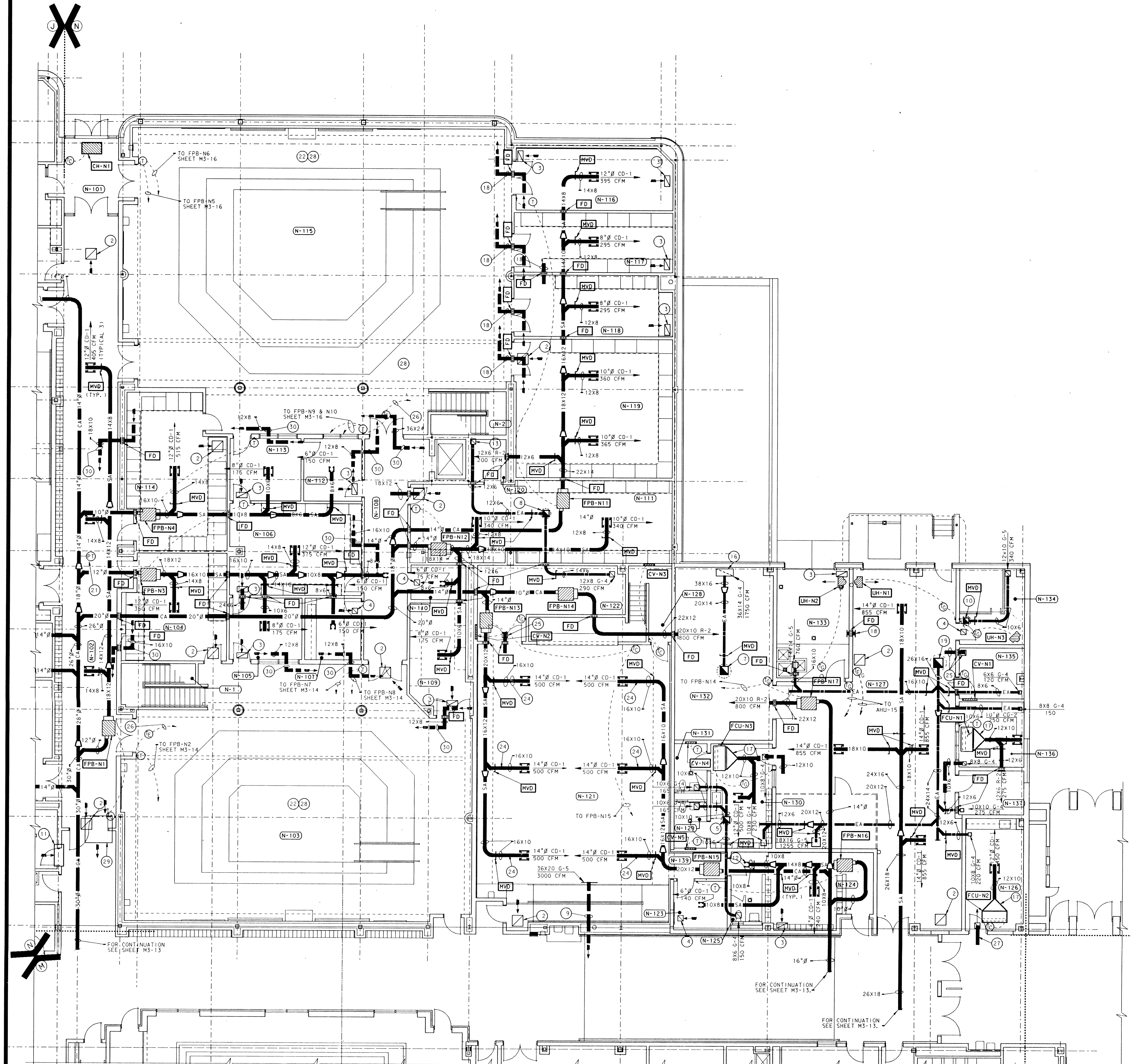
PROJECT 871-110
DATE DEC. 18, 1989
REVISED

ROOM NAME SCHEDULE

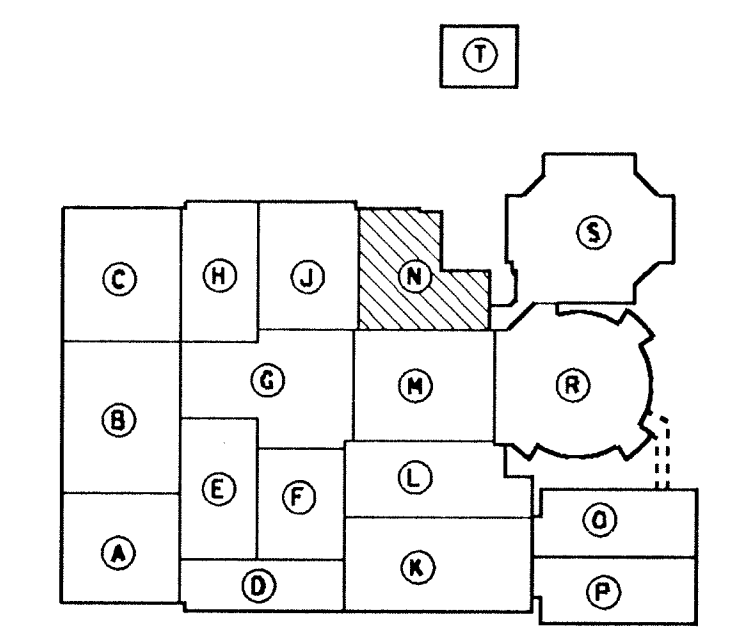
NO	NAME
N-101	VESTIBULE
N-102	CORRIDOR
N-103	ORCHESTRA
N-104	INSTRUMENTS STORAGE
N-105	OFFICE
N-106	MUSIC LIBRARY
N-107	INSTRUMENT REPAIR
N-108	CORRIDOR
N-109	CELLO
N-110	PRACTICE
N-111	UNIFORMS
N-112	OFFICE
N-113	OFFICE
N-114	INSTRUMENTS STORAGE
N-115	BAND
N-116	ENSEMBLE
N-117	LARGE INSTRUMENTS
N-118	PERCUSSION
N-119	UNIFORMS
N-120	ELEVATOR EQUIPMENT
N-121	REHEARSAL
N-122	STORAGE
N-123	OFFICE
N-124	DRESSING
N-125	TOILET
N-126	LOUNGE
N-127	RECEIVING
N-128	PASSAGE
N-129	TOILET
N-130	LOUNGE
N-131	TOILET
N-132	ELECTRICAL
N-133	COMPACTOR
N-134	SPRINKLER ROOM
N-135	TOXIC
N-136	OFFICE
N-137	TELECOMMUNICATIONS
N-138	CORRIDOR
N-139	PASSAGE
N-140	PLATFORM

- PLAN NOTES:**
- SEE SHEET M0-1 THRU M0-5 FOR GENERAL NOTES, LEGEND AND SCHEDULES.
 - 24X24 RETURN AIR GRILLE, G-1.
 - 24X12 RETURN AIR GRILLE, G-2.
 - 12X12 RETURN AIR GRILLE, G-3.
 - 14 1/2"x14 1/2" EXHAUST DUCT UP TO ROOF EXHAUST FAN REF-N1.
 - ALL SUPPLY AIR DUCTWORK DOWN STREAM OF FAN POWERED BOXES SHALL BE LINED WITH 1 INCH, 1 1/2 POUND DENSITY ACUSTICAL INSULATION.
 - 18 1/2"x18 1/2" EXHAUST DUCT UP TO ROOF EXHAUST FAN REF-N2.
 - 14 1/2"x14 1/2" EXHAUST DUCT UP TO ROOF EXHAUST FAN REF-N3.
 - 36X20 RETURN AIR TRANSFER DUCT ABOVE CEILING.
 - 14 1/2"x14 1/2" EXHAUST DUCT UP TO ROOF EXHAUST FAN REF-N4.
 - 48X30 RETURN AIR TRANSFER DUCT ABOVE CEILING.
 - 6" CD-1, 75 CFM.
 - 10X6 EXHAUST GRILLE, G-4, 250 CFM.
 - SEE SHEET M7-15 FOR MISCELLANEOUS PIPING.
 - ALL GRILLES, REGISTERS AND DIFFUSERS PENETRATING THE CEILING SHALL BE PROTECTED WITH RADIATION DAMPERS AND THERMAL INSULATING BLANKETS.
 - 38X16 EXHAUST DUCT DOWN, MOUNT 36X14 G-4 9 FEET ABOVE FINISHED FLOOR.
 - DUCT TRANSITION TO FAN COIL, TYPICAL ALL FAN COIL UNITS.
 - 20"x12" RELIEF/RETURN TRANSFER "Z" DUCT WITH FIRE DAMPER, SEE SHEET M6-2 FOR DETAIL.
 - 20 1/2"x20 1/2" EXHAUST DUCT UP TO EXHAUST FAN EF-N5.
 - 10X6 TRANSFER AIR DUCT.
 - END OF DUCT PRESSURE TRANSMITTER TO AHU #7
 - SEE SHEET M3-16 FOR AIR DISTRIBUTION DUCTS THIS AREA.
 - ALL DUCT SIZES SHOWN ARE CLEAR OPENING AREA DIMENSION, SHEET METAL CONTRACTOR SHALL FABRICATE LINED DUCT TO MAINTAIN CLEAR OPENING DIMENSIONS.
 - 16X10 SUPPLY DUCT MUST RUN BETWEEN 40" JOIST WEBBING.
 - 12X12 RELIEF AIR GRILLE CONNECTED TO 14X8 TRANSFER DUCT WITH FIRE DAMPER.
 - TEMPERATURE ELEMENT TO DDC SYSTEM.
 - 12"x12" G-3 WITH 14"x8" TRANSFER DUCT.
 - FOR RETURN AIR OPENINGS THIS AREA SEE SHEET M3-16.
 - 60"x36" RETURN/RELIEF TRANSFER DUCT ABOVE CEILING.
 - RETURN/RELIEF "Z" TYPE TRANSFER AIR DUCT, SEE SHEET M6-2 FOR DETAIL.

- CONTRACT #4:** Sheet M3-15:
- In Room N-136 - Office, on the middle of north wall, add a wall mounted day-night override control panel.
 - In Toilet Rooms N-129 and N-131, add manual volume dampers to the 10" x 6" exhaust duct.
 - In Instrument Repair N-107, add manual volume damper to the 8" x 6" supply duct.
 - In Receiving Room N-127, delete the 2 - 24 x 24 G-1 return air grilles.
 - In Plan Notes 7, 8, 10 and 19, delete reference to 1/2 inch in duct sizes.



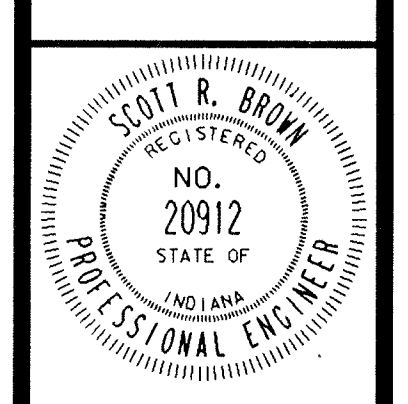
UNIT "N" HEATING, VENTILATING AND AIR CONDITIONING FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"



KEY PLAN
NOT TO SCALE

ADDITION TO and RENOVATION OF LAWRENCE CENTRAL HIGH SCHOOL
 for the METROPOLITAN SCHOOL DISTRICT of LAWRENCE TOWNSHIP
 MARION COUNTY, INDIANA

EVERETT I. Company
ED BROWN
 Architects & Engineers
 950 NORTH MERIDIAN STREET,
 INDIANAPOLIS, INDIANA 46204
 317-257-1000



PROJECT
871-110
DATE
DEC. 18, 1989
REVISED

ROOM NAME SCHEDULE

NO	NAME
N-140	PLATFORM
N-201	ENSEMBLE
N-202	PRACTICE
N-203	KEYBOARD
N-204	PRACTICE
N-205	ENSEMBLE
N-206	ENSEMBLE
N-207	STORAGE
N-208	PASSAGE
N-209	PASSAGE
N-210	PASSAGE
N-211	PASSAGE
N-212	ELEVATOR
N-1	STAIR
N-2	STAIR
N-3	STAIR

PLAN NOTES:

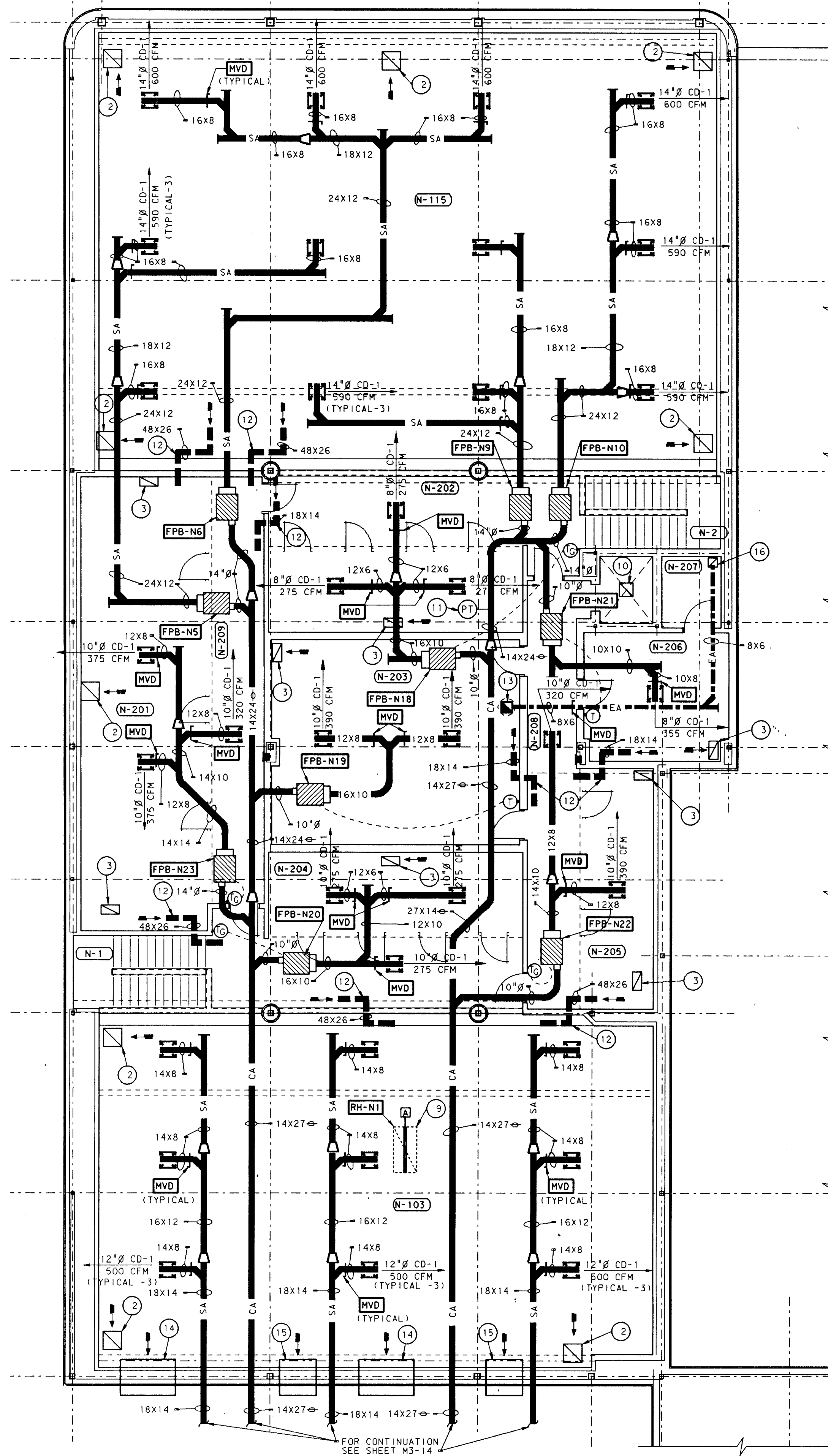
- 1 SEE SHEET MO-1 THRU MO-5 FOR GENERAL NOTES, LEGEND AND SCHEDULES.
- 2 24"x24" RETURN AIR GRILLE WITH FIRE DAMPER.
- 3 24"x12" RETURN AIR GRILLE WITH FIRE DAMPER.
- 4 12"x12" RETURN AIR GRILLE WITH FIRE DAMPER.
- 5 ALL GRILLES, REGISTERS AND DIFFUSERS PENETRATING THE CEILING SHALL BE PROTECTED WITH RADIATION DAMPERS AND THERMAL INSULATING BLANKETS.
- 6 ALL DUCT SIZES SHOWN ARE CLEAR OPENING AREA DIMENSIONS. SHEET METAL CONTRACTOR SHALL FABRICATE LINED DUCT TO MAINTAIN CLEAR OPENING DIMENSIONS.
- 7 ALL LOW VELOCITY SUPPLY AIR DUCTWORK SHALL BE LINED WITH 1" THICK, 1 1/2 POUND DENSITY ACOUSTICAL INSULATION.
- 8 SEE SHEET M7-16 FOR MISCELLANEOUS PIPING.
- 9 NEW RELIEF HOOD ON ROOF, SEE SCHEDULE ON SHEET MO-3 FOR THROAT SIZE, "AUTOMATIC" DAMPER BY T.C.C.
- 10 AUTOMATIC FIRE AND SMOKE VENT AS MANUFACTURED BY "BILCO" MODEL DSH4848. VENT SHALL ELECTRICALLY OPEN UPON A SIGNAL FROM SMOKE DETECTOR SIGNAL LOCATED IN ELEVATOR VESTIBULE.
- 11 END OF DUCT PRESSURE TRANSMITTER FOR AHU-7.
- 12 RETURN/RELIEF "Z" TYPE TRANSFER DUCT. SEE SHEET M3-6 FOR DETAIL.
- 13 14"x14" EXHAUST DUCT UP TO EF-N6 ON ROOF.
- 14 72"x14" TRANSFER DUCT LOCATED ABOVE CEILING.
- 15 48"x14" TRANSFER DUCT LOCATED ABOVE CEILING.
- 16 8"x6" G-4 EXHAUST GRILLE WITH FIRE DAMPER, CONNECT TO 8"x6" EXHAUST DUCT.

CONTRACT #4: PPO 1 Sheet M3-16:

- A. At the end of Note 9, add the following: "Relief Hoods to be provided and installed by Roofing Contractor."

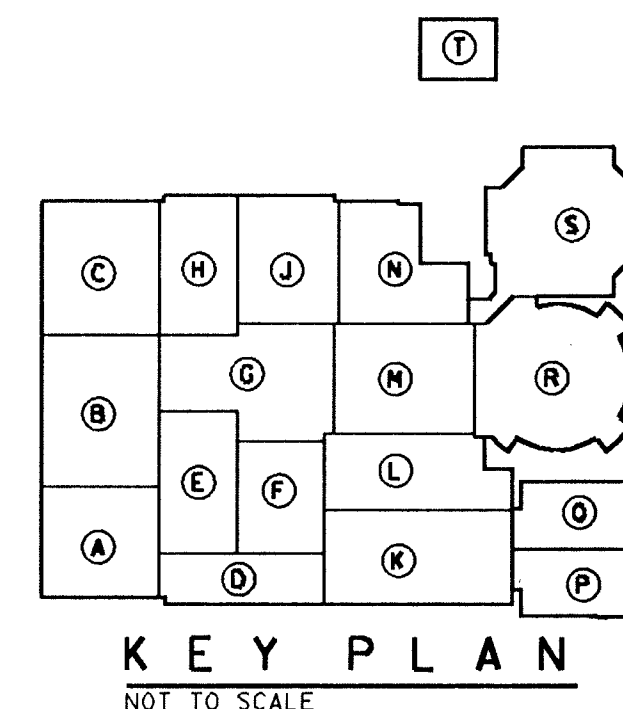
63. CONTRACT #4: PPO-3 Sheet #M3-16:

- A. Delete fire and smoke vent located over elevator shaft.
B. Delete Plan Note 10.



UNIT "N" HEATING,
VENTILATING AND
AIR CONDITIONING
SECOND FLOOR PLAN

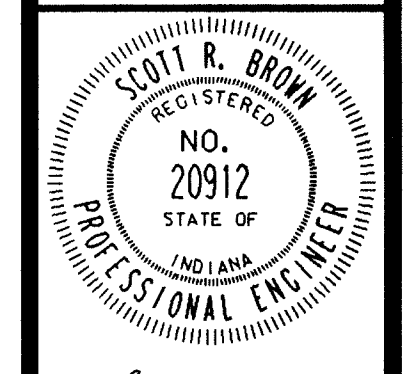
SCALE: 1/8" = 1'-0"



KEY PLAN
NOT TO SCALE

ADDITION TO AND RENOVATION OF
LAWRENCE CENTRAL HIGH SCHOOL
 for the METROPOLITAN SCHOOL DISTRICT of LAWRENCE TOWNSHIP
 MARION COUNTY, INDIANA

EVERETT I. BROWN Company
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 (317) 231-1000



PROJECT
871-110

DATE
DEC. 18, 1989

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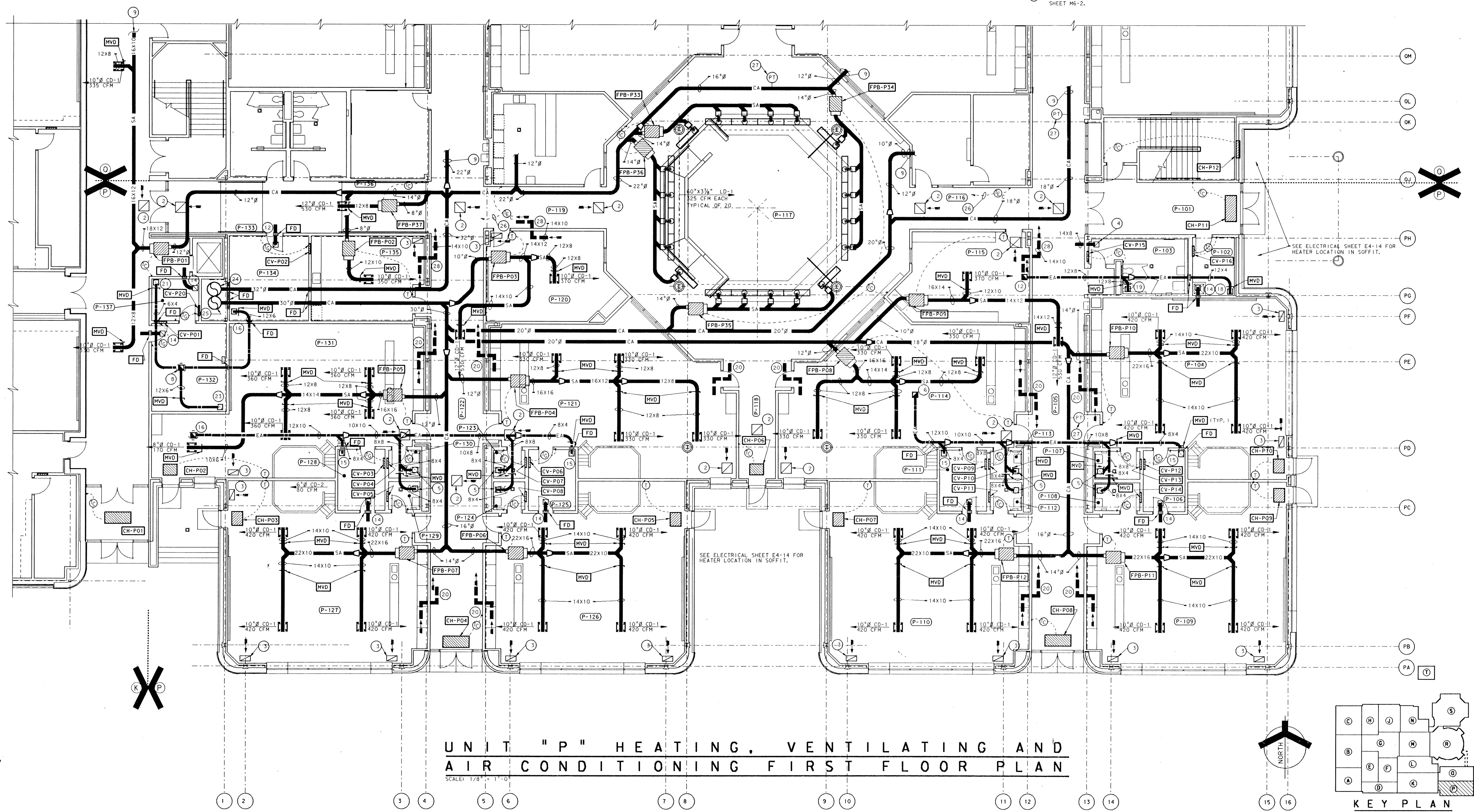
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 Date: 12/18/89
 User: LCB
 Title: UNIT N-16-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100

ROOM NAME SCHEDULE

NO	NAME
P-101	VESTIBULE
P-102	CUSTODIAN
P-103	WOMEN
P-104	KINDERGARTEN
P-105	CORRIDOR
P-106	STORAGE
P-107	TOILET
P-108	TOILET
P-109	KINDERGARTEN
P-110	KINDERGARTEN
P-111	STORAGE
P-112	TOILET
P-113	TOILET
P-114	KINDERGARTEN
P-115	WORK AREA
P-116	CORRIDOR
P-117	COMMONS
P-118	PASSAGE
P-119	CORRIDOR
P-120	CONFERENCE
P-121	KINDERGARTEN
P-122	CORRIDOR
P-123	TOILET
P-124	TOILET
P-125	STORAGE
P-126	KINDERGARTEN
P-127	KINDERGARTEN
P-128	STORAGE
P-129	TOILET
P-130	TOILET
P-131	KINDERGARTEN
P-132	CUSTODIAN
P-133	RAMP
P-134	STORAGE
P-135	TEACHERS LOUNGE & WORK AREA
P-136	CORRIDOR
P-137	ELEVATOR EQUIPMENT
PA-1	PLAY AREA

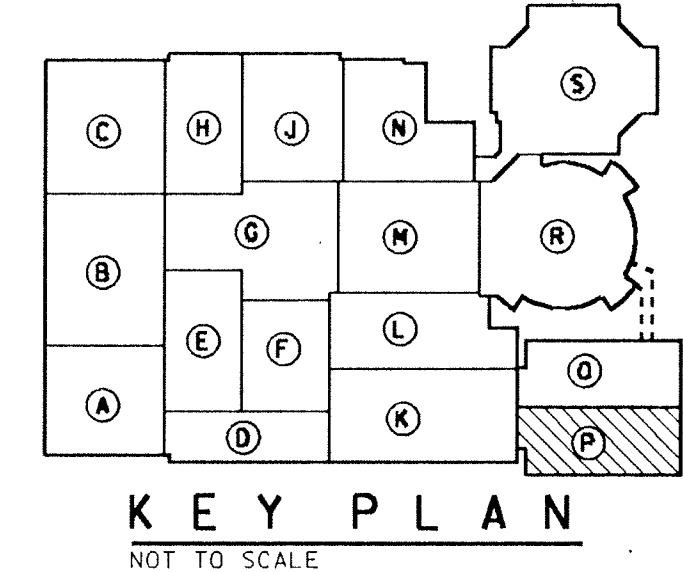
PLAN NOTES:

- SEE SHEET M0-1 THRU M0-5 FOR GENERAL NOTES, LEGEND AND SCHEDULES.
- 24"x24" RETURN AIR GRILLE, G-1.
- 24"x12" RETURN AIR GRILLE, G-2.
- 12"x12" RETURN AIR GRILLE, G-3.
- 6X8 G-4 - 95 CFM
- 12X10 EXHAUST DUCT UP TO ROOF EXHAUST FAN EF-P1. SEE SHEET M3-18 FOR CONTINUATION.
- ALL DUCT SIZES SHOWN ARE CLEAR DIMENSIONS. SHEET METAL CONTRACTOR SHALL FABRICATE LINED DUCT TO MAINTAIN DIMENSIONS.
- 14X14 EXHAUST DUCT UP TO EF-P2 ON ROOF.
- FOR CONTINUATION, SEE SHEET M3-19.
- ALL GRILLES, REGISTERS AND DIFFUSERS PENETRATING THE CEILING SHALL BE PROTECTED WITH RADIATION DAMPERS AND THERMAL INSULATING BLANKETS.
- SEE SHEET M7-17 FOR MISCELLANEOUS PIPING.
- 12X8 EXHAUST DUCT UP THRU FLOOR DECK WITH FIRE DAMPER AT FLOOR. SEE SHEET M3-18 FOR CONTINUATION.
- 12X12 UP THRU FLOOR DECK WITH FIRE DAMPER AT FLOOR. SEE SHEET M3-18 FOR CONTINUATION.
- 12" X 12" TRANSFER GRILLE DUCTED TO ABOVE CEILING WITH FIRE DAMPER IN WALL.
- 8X6 G-4 - 100 CFM.
- 14X14 EXHAUST DUCT UP TO EF-P3 ON ROOF.
- ALL LOW VELOCITY SUPPLY AIR DUCTS SHALL BE LINED WITH 1" 1-1/2 POUND DENSITY ACOUSTICAL INSULATION.
- 12X6 G-4 - 125 CFM.
- 12X12 G-4 - 265 CFM.
- 24" X 24" LINED 12" TRANSFER DUCT. SEE TYPICAL DETAIL ON SHEET M6-2.
- 6X6 G-4 - 75 CFM.
- 12X12 G-4 - 250 CFM.
- 12X12 G-4 - 250 CFM.
- 32" CA UP TO AHU-10. SEE SHEET M3-18 FOR CONTINUATION.
- 30" CA UP TO AHU-10. SEE SHEET M3-18 FOR CONTINUATION.
- TEMPERATURE ELEMENT TO DDC SYSTEM.
- END OF RUN PRESSURE TRANSMITTER FOR AHU-10.
- RETURN/RELIEF TRANSFER "2" DUCT. SEE TYPICAL DETAIL ON SHEET M6-2.



UNIT "P" HEATING, VENTILATING AND AIR CONDITIONING FIRST FLOOR PLAN

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



ADDITION TO and RENOVATION OF
LAWRENCE CENTRAL HIGH SCHOOL
 for the METROPOLITAN SCHOOL DISTRICT of LAWRENCE TOWNSHIP
 MARION COUNTY, INDIANA

EVERETT COMPANY
 Architects & Engineers
 950 NORTH MERIDIAN STREET
 INDIANA 46204
 (317) 237-7000



PROJECT 871-110
 DATE DEC. 18, 1989
 REVISED

ROOM NAME SCHEDULE

NO	NAME
P-201	FOREIGN LANGUAGE
P-202	FOREIGN LANGUAGE
P-203	RECORDING ROOM
P-204	FOREIGN LANGUAGE
P-205	FOREIGN LANGUAGE
P-206	FOREIGN LANGUAGE
P-207	CORRIDOR
P-208	WORK AREA
P-209	CUSTODIAN
P-210	DEPARTMENT OFFICE
P-211	STORAGE
P-212	LANGUAGE OFFICE
P-213	WORK AREA
P-214	CORRIDOR
P-215	BUSINESS
P-216	TPPING
P-217	COMPUTER
P-218	STORAGE
P-219	OFFICE
P-220	TPPING
P-221	CORRIDOR
P-222	CO-OP OFFICE EDUCATION CLASSROOM
P-223	CONFERENCE
P-224	OFFICE
P-225	OFFICE
P-226	CORRIDOR

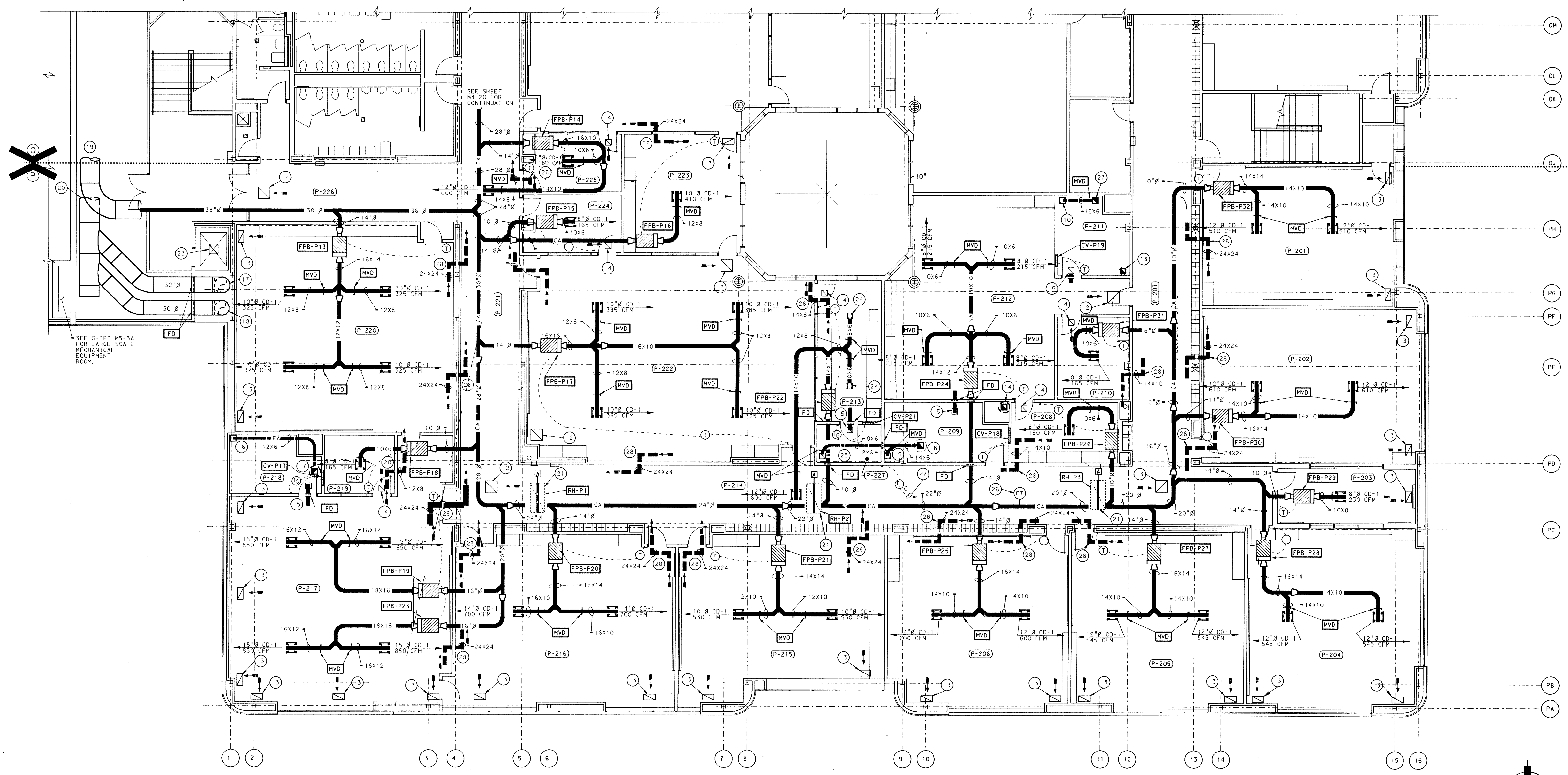
CONTRACT #4: 7001 Sheet M3-18:

- A. At the End of Note 21 add, the following: "Relief Hoods to be provided and installed by Roofing Contractor."
- B. In Office P-224, add a manual volume damper to the 10" x 6" supply duct from FPB-P15.
- C. In Storage Rooms P-209, P-211, and P-218, install a 36" x 30" fire damper in the top and bottom of the transfer air shaft.
- D. In Storage Room P-218, add a 48" x 30" transfer duct with fire damper along north wall above ceiling.
- E. In Typing Room P-220, delete size of transfer ducts shown on east wall and insert 36" x 24" Z-type transfer duct.
- F. In Storage Room P-211, 2 feet south of Column Line PH along east wall above ceiling, add a 48" x 30" transfer duct with fire damper.
- G. In Storage Room P-209 center of south wall, add a 48" x 30" transfer duct with fire damper in ceiling space.

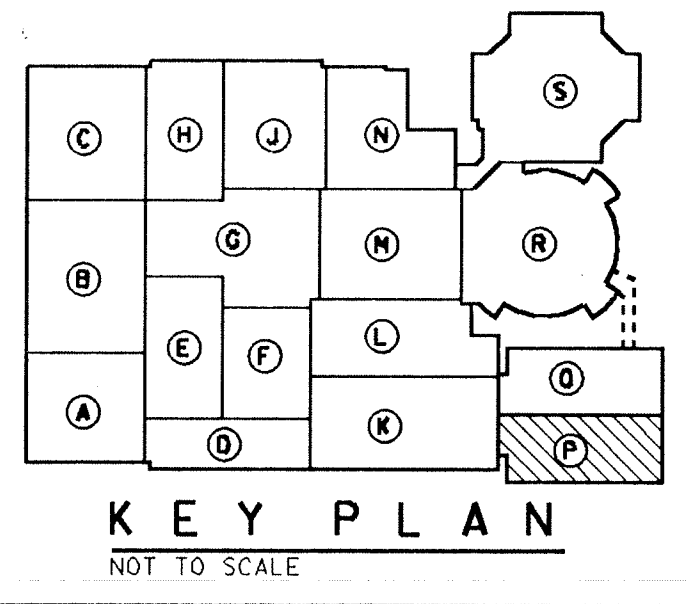
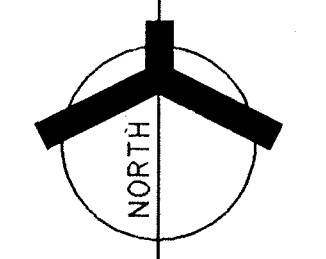
PLAN NOTES:

- 1. SEE SHEET M0-1 THRU M0-5 FOR GENERAL NOTES, LEGEND AND SCHEDULES.
- 2. 24"x24" G-1 RETURN AIR GRILLE WITH FIRE DAMPER.
- 3. 24"x12" G-2 RETURN AIR GRILLE WITH FIRE DAMPER.
- 4. 12"x12" G-3 RETURN AIR GRILLE WITH FIRE DAMPER.
- 5. 12"x12" G-3 TRANSFER GRILLE WITH 14"x6" DUCT ABOVE CEILING WITH FIRE DAMPER IN WALL.
- 6. 6"x12" G-4, 175 CFM.
- 7. 14"x14" EXHAUST DUCT UP TO EF-P5 ON ROOF.
- 8. 14"x14" EXHAUST DUCT UP TO EF-P6 ON ROOF.
- 9. 6"x12" G-4, 220 CFM.
- 10. 6"x8" G-4, 175 CFM.
- 11. ALL DUCT SIZES SHOWN ARE CLEAR OPENING AREA DIMENSIONS. SHEET METAL CONTRACTOR SHALL FABRICATE LINED DUCT TO MAINTAIN DIMENSIONS.
- 12. ALL GRILLES, REGISTERS AND DIFFUSERS PENETRATING THE CEILING SHALL BE PROTECTED WITH RADIATING DAMPERS AND THERMAL INSULATING BLANKETS.
- 13. 14"x14" EXHAUST DUCT UP TO EF-P4 ON ROOF. 12"x8" EXHAUST DUCT WITH FIRE DAMPER DOWN THRU FLOOR.
- 14. 14"x14" EXHAUST DUCT UP TO EF-P1 ON ROOF. 12"x10" EXHAUST DUCT WITH FIRE DAMPER DOWN THRU FLOOR.
- 15. ALL LOW VELOCITY SUPPLY AIR DUCTS SHALL BE LINED WITH 1" THICK, 1 1/2 POUND DENSITY ACOUSTICAL INSULATION.
- 16. SEE SHEET M7-18 FOR MISCELLANEOUS PIPING.
- 17. 32" CA DUCT DOWN. SEE SHEET M3-17 FOR CONTINUATION.
- 18. 30" CA DUCT DOWN. SEE SHEET M3-17 FOR CONTINUATION.
- 19. 38" CA DUCT TO AHU-11. SEE SHEET M5-5 FOR CONTINUATION.
- 20. 40" CA DUCT TO AHU-10. SEE SHEET M5-5 FOR CONTINUATION.
- 21. NEW RELIEF HOOD. SEE SCHEDULE ON SHEET M0-3 FOR THROAT SIZE. AUTOMATIC DAMPER BY T.C.C.
- 22. TEMPERATURE ELEMENT TO DDC SYSTEM.
- 23. AUTOMATIC FIRE AND SMOKE VENT AS MANUFACTURED BY "BILCO" MODEL DSH488. VENT SHALL ELECTRONICALLY OPEN UPON A SIGNAL FROM SMOKE DETECTOR SIGNAL LOCATED IN ELEVATOR LOBBY.
- 24. 6" CD-1, 150 CFM.
- 25. 6"x8" G-4 EXHAUST GRILLE, 75 CFM.
- 26. END OF RUN DUCT PRESSURE TRANSMITTER FOR AHU-11.
- 27. 14"x14" EXHAUST DUCT UP TO EF-P7 ON ROOF.
- 28. RETURN/RELIEF 12" TYPE TRANSFER DUCT. SEE SHEET M6-2 FOR TYPICAL DETAIL.

- 64. CONTRACT #4: 7001 Sheet #M3-18:
 - A. Delete fire and smoke vent located over elevator shaft.
 - B. Delete Plan Note 23.



UNIT "P" HEATING, VENTILATING AND AIR CONDITIONING SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"



ADDITION TO and RENOVATION OF
LAWRENCE CENTRAL HIGH SCHOOL
 for the METROPOLITAN SCHOOL DISTRICT of LAWRENCE TOWNSHIP
 MARION COUNTY, INDIANA

EVERETT COMPANY
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 940 NORTH MERIDIAN STREET
 INDIANAPOLIS, INDIANA 46204
 (317) 237-7000



PROJECT 871-110
DATE DEC. 18, 1989
REVISED

PLOT NO. 17
 DATE: 12/18/89
 DRAWN BY: J. L. CAMPBELL
 CHECKED BY: J. L. CAMPBELL
 SCALE: AS SHOWN
 REF. 1116 LCA200.DWG
 REF. 1116 LCA200.DWG
 REF. 1116 LCA200.DWG
 REF. 1116 LCA200.DWG

- A. In Notes 6, 7, and 9, complete the last word of sentence, "continuation".
- B. In Toilet Rooms Q-123 and Q-124, provide manual volume dampers in 8" x 4" exhaust duct.
- C. In Telecommunication Room Q-130, add a 24" x 18" transfer duct with fire damper located in the center of the east wall above the ceiling.
- D. In Kindergarten Room Q-126, revise the size of "Z" type transfer duct to a 36" x 24" located along the east wall.

PLAN NOTES:

- 1 SEE SHEET M0-1 THRU M0-5 FOR GENERAL NOTES, LEGEND AND SCHEDULES.
- 2 24"x24" RETURN AIR GRILLE. G-1.
- 3 24"x12" RETURN AIR GRILLE. G-2.
- 4 12"x12" RETURN AIR GRILLE. G-3.
- 5 6X6 G-4 - 95 CFM EACH.
- 6 12X10 UP TO ROOF EXHAUST FAN EF-01. SEE SHEET M3-20 FOR CONT.
- 7 12X10 UP TO ROOF EXHAUST FAN EF-02. SEE SHEET M3-20 FOR CONT.
- 8 FOR CONTINUATION, SEE SHEET M3-17.
- 9 14X10 UP TO ROOF EXHAUST FAN EF-03. SEE SHEET M3-20 FOR CONT.
- 10 ALL GRILLES REGISTERS AND DIFFUSERS PENETRATING THE CEILING SHALL BE PROTECTED WITH RADIATION DAMPERS AND THERMAL INSULATING BLANKETS.
- 11 12" x 12" G-3 TRANSFER GRILLE DUCTED TO ABOVE CEILING WITH FIRE DAMPER IN WALL.
- 12 8X6 G-4. - 100 CFM.
- 13 (NOTE NOT USED.)
- 14 12" x 12" G-3 TRANSFER GRILLE DUCTED TO ABOVE CEILING.
- 15 12X12 G-3. - 350 CFM.
- 16 SEE SHEET M7-19 FOR MISCELLANEOUS PIPING.
- 17 24"x24" LINED "Z" TRANSFER DUCT. SEE TYPICAL DETAIL ON SHEET M0-X.
- 18 60"x30" LINED RETURN AIR DUCT UP TO AIR HANDLING UNIT IN PENTHOUSE #5 UNIT L. DUCT TO BE LINED WITH 2" THICK 3 POUND DENSITY ACOUSTICAL INSULATION.
- 19 90"x30" RETURN AIR OPENING OVER CORRIDOR.
- 20 ALL DUCT SIZES SHOWN ARE CLEAR OPENING AREA DIMENSIONS. SHEET METAL CONTRACTOR SHALL FABRICATE LINED DUCT TO MAINTAIN DIMENSIONS.
- 21 ALL LOW VELOCITY SUPPLY AIR DUCTS SHALL BE LINED WITH 1" THICK, 1/2 POUND DENSITY ACOUSTICAL INSULATION.
- 22 RETURN/RELIEF "Z" TYPE TRANSFER AIR DUCT SEE SHEET M6-2 FOR TYPICAL DETAIL.

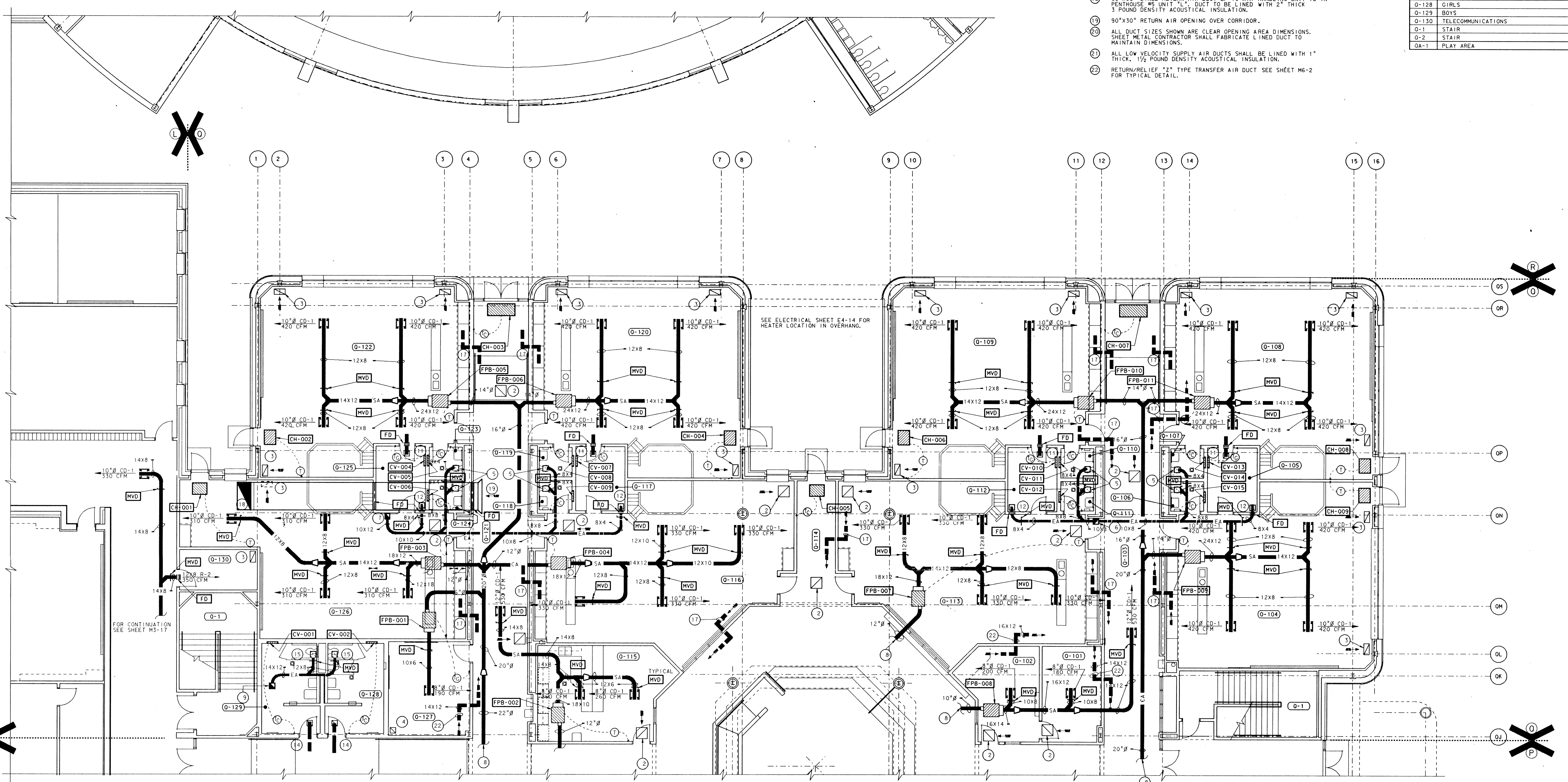
ROOM NAME SCHEDULE	
NO	NAME
Q-101	RECEPTION
Q-102	OFFICE
Q-103	CORRIDOR
Q-104	KINDERGARTEN
Q-105	STORAGE
Q-106	TOILET
Q-107	TOILET
Q-108	KINDERGARTEN
Q-109	KINDERGARTEN
Q-110	TOILET
Q-111	TOILET
Q-112	STORAGE
Q-113	KINDERGARTEN
Q-114	PASSAGE
Q-115	KITCHEN
Q-116	KINDERGARTEN
Q-117	STORAGE
Q-118	TOILET
Q-119	TOILET
Q-120	KINDERGARTEN
Q-121	CORRIDOR
Q-122	KINDERGARTEN
Q-123	TOILET
Q-124	TOILET
Q-125	STORAGE
Q-126	KINDERGARTEN
Q-127	SPEECH & HEARING
Q-128	GIRLS
Q-129	BOYS
Q-130	TELECOMMUNICATIONS
O-1	STAIR
O-2	STAIR
DA-1	PLAY AREA

ADDITION TO and RENOVATION OF
LAWRENCE CENTRAL HIGH SCHOOL
 for the METROPOLITAN SCHOOL DISTRICT of LAWRENCE TOWNSHIP
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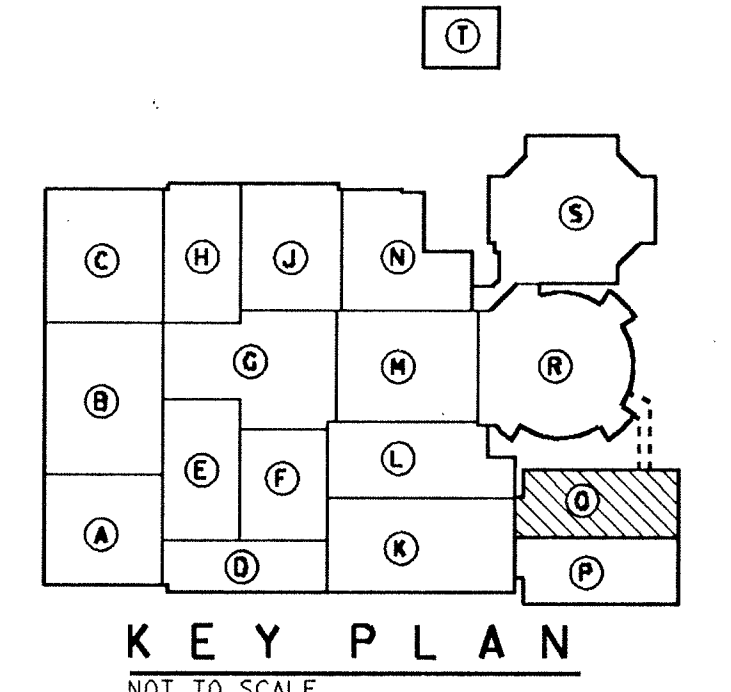
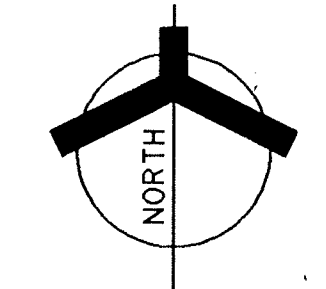
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**UNIT "O" HEATING, VENTILATING AND
 AIR CONDITIONING FIRST FLOOR PLAN**
 SCALE: 1/8" = 1'-0"

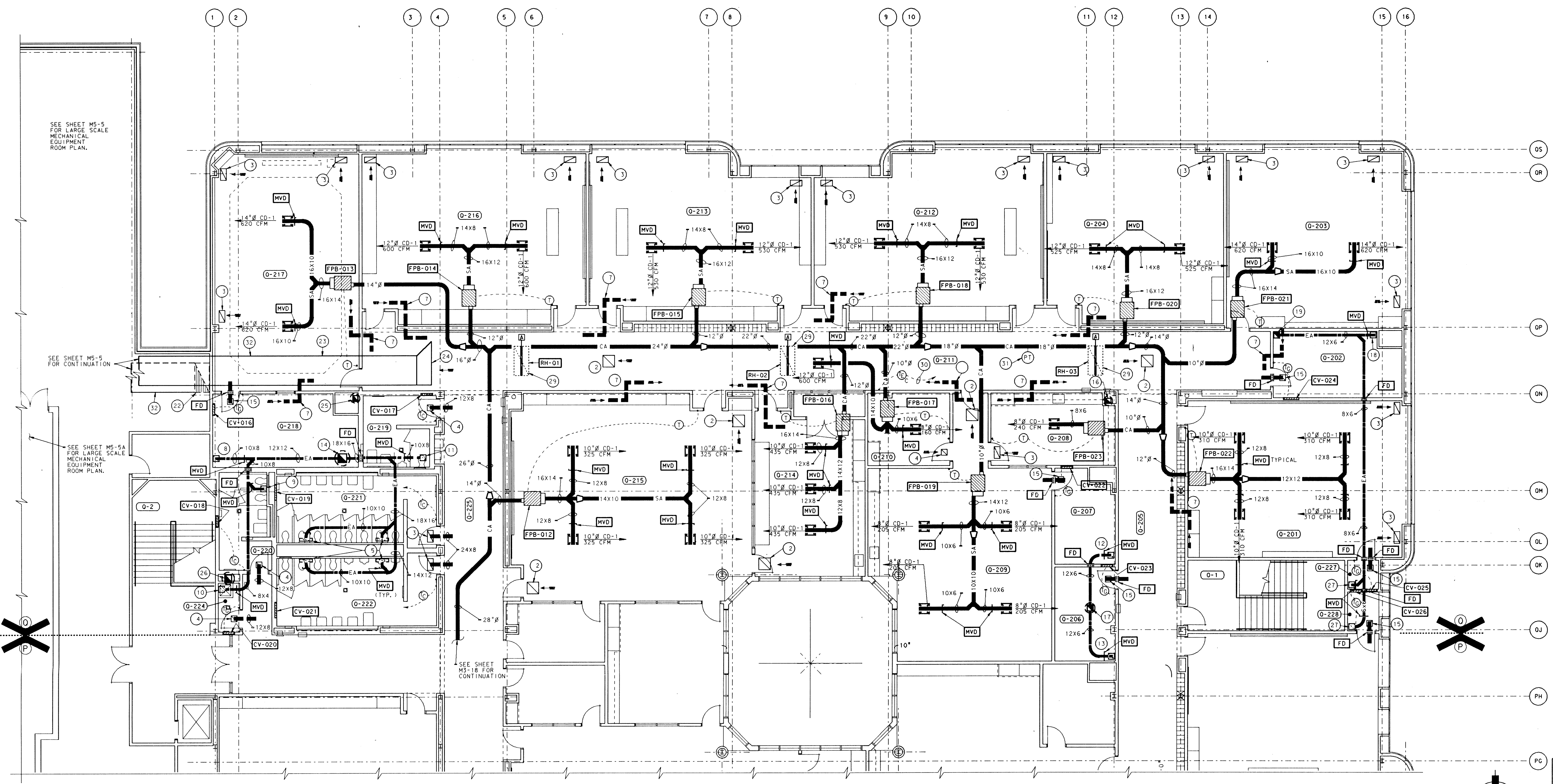


Ref. Title Location Date No. Rev. Date
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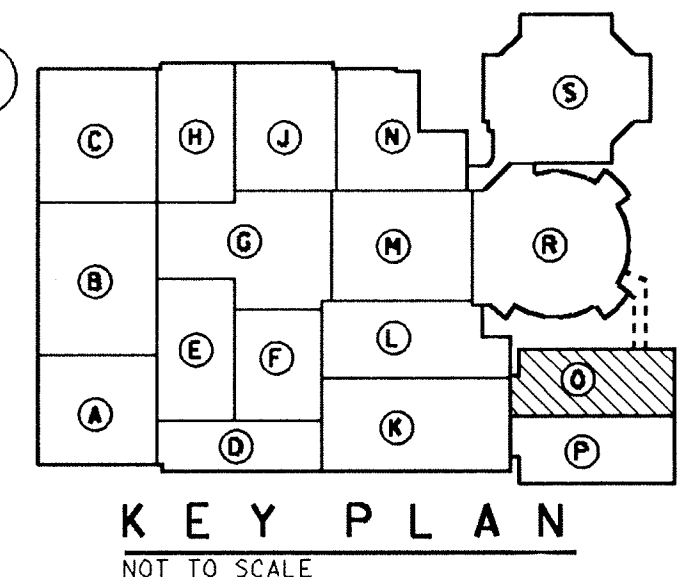
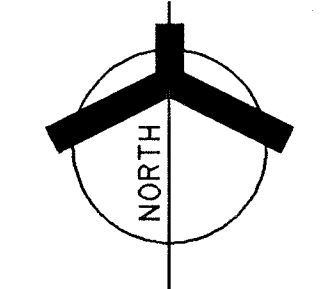
ROOM NAME SCHEDULE	
NO	NAME
Q-201	FOREIGN LANGUAGE STORAGE
Q-202	FOREIGN LANGUAGE STORAGE
Q-203	FOREIGN LANGUAGE STORAGE
Q-204	FOREIGN LANGUAGE STORAGE
Q-205	CORRIDOR
Q-206	STORAGE
Q-207	STORAGE
Q-208	WORK AREA
Q-209	BUSINESS OFFICE
Q-210	DEPARTMENT OFFICE
Q-211	CORRIDOR
Q-212	BUSINESS
Q-213	BUSINESS
Q-214	COMPUTER
Q-215	MARKETING EDUCATION
Q-216	ACCOUNTING
Q-217	LECTURE
Q-218	STORAGE
Q-219	MENS
Q-220	WOMENS
Q-221	GIRLS
Q-222	BOYS
Q-223	PASSAGE
Q-224	CUSTODIAN
Q-225	CORRIDOR
Q-226	MECHANICAL EQUIPMENT
Q-227	STORAGE
Q-228	STORAGE
Q-1	STAIRS
Q-2	STAIRS

- PLAN NOTES:**
- SEE SHEETS M0-1 THRU M0-5 FOR GENERAL NOTES, LEGEND AND SCHEDULES.
 - 24"x24" G-1 RETURN AIR GRILLE WITH FIRE DAMPER.
 - 24"x12" G-2 RETURN AIR GRILLE WITH FIRE DAMPER.
 - 12"x12" G-3 RETURN AIR GRILLE WITH FIRE DAMPER.
 - 12"x10" G-4 EXHAUST GRILLE, 355 CFM EACH, TYPICAL OF FOUR.
 - ALL GRILLES, REGISTERS AND DIFFUSERS PENETRATING THE CEILING SHALL BE PROTECTED WITH RADIATION DAMPERS AND THERMAL INSULATING BLANKETS.
 - 24"x24" LINED "Z" TRANSFER DUCT ABOVE CEILING. SEE TYPICAL DETAIL ON SHEET M6-2.
 - 12" X 12" G-4, - 350 CFM.
 - 12" X 12" G-4, - 300 CFM.
 - 6" X 6" G-4, - 75 CFM.
 - 12" X 12" G-4, - 300 CFM.
 - 6" X 12" G-4, - 175 CFM.
 - 6" X 12" G-4, - 175 CFM.
 - 16"x16" EXHAUST DUCT UP TO EF-04 ON ROOF.
 - 12" X 12" TRANSFER GRILLE DUCTED TO ABOVE CEILING WITH FIRE DAMPER AT WALL. DUCT TO BE 14"x6".
 - 12"x10" EXHAUST DUCT DOWN THRU FLOOR WITH FIRE DAMPER 14"x14" EXHAUST DUCT UP THRU FLOOR TO EF-01.
 - 14"x14" EXHAUST DUCT UP TO EF-05 ON ROOF.
 - 12"x12" G-3, - 225 CFM.
 - 14"x14" EXHAUST DUCT UP TO EF-06 ON ROOF.
 - ALL DUCT SIZES SHOWN ARE CLEAR DIMENSIONS. SHEET METAL CONTRACTOR SHALL FABRICATE LINED DUCT TO MAINTAIN DIMENSIONS.
 - ALL LOW VELOCITY SUPPLY AIR DUCTS SHALL BE LINED WITH 1" THICK, 1 1/2 POUND DENSITY ACOUSTICAL INSULATION.
 - 60"x30" LINED RETURN AIR DUCT DOWN THRU FLOOR WITH FIRE DAMPER FROM AHU-10.
 - 60"x28" LINED RETURN AIR DUCT TO AHU-11. SEE UNIT "L" PENTHOUSE #5 FOR CONTINUATION.
 - 84"x28" RETURN AIR OPENING.
 - 14"x14" EXHAUST DUCT UP TO EF-02 ON ROOF. 12"x10" EXHAUST DUCT DOWN IN CHASE WITH FIRE DAMPER AT FLOOR TO ABOVE FIRST CEILING. SEE SHEET M3-19 FOR CONTINUATION.
 - 14"x10" EXHAUST DUCT DOWN THRU FLOOR WITH FIRE DAMPER. 14"x EXHAUST DUCT UP THRU ROOF TO EF-03. SEE SHEET M3-19 FOR CONTINUATION.
 - 8"x6" G-4, 75 CFM.
 - SEE SHEET M7-20 FOR MISCELLANEOUS PIPING.
 - NEW RELIEF HOOD. SEE SCHEDULE ON SHEET M0-3 FOR THROAT SIZE. AUTOMATIC DAMPER BY T.C.C.
 - TEMPERATURE ELEMENT TO ODC SYSTEM.
 - END OF RUN DUCT PRESSURE TRANSMITTER FOR AHU-11.
 - RETURN AIR DUCT IS TO BE LINED WITH 2" THICK, 3 POUND DENSITY ACOUSTICAL INSULATION.

- CONTRACT #4: A-107 Sheet M3-20:**
- In Storage Room Q-218, provide a 42" x 18" transfer air opening with fire damper in the top and bottom of the transfer air chase. Delete the 24" x 24" "Z" duct shown on the north wall and add 2 - 48" x 12" transfer ducts with fire damper.
 - In Lecture Room Q-217, delete 24" x 24" "Z" type transfer duct and insert a 48" x 24" transfer duct.
 - In Storage Room Q-202, provide a 36" x 26" transfer air opening with fire damper in the top and bottom of the transfer air chase. Delete the "Z" type transfer air duct as shown at the west wall. Insert a 48" x 24" transfer opening with fire damper.
 - At the end of Note 29, add the following: "Relief Hood to be provided and installed by the Roofing Contractor."



UNIT "O" HEATING, VENTILATING AND AIR CONDITIONING SECOND FLOOR PLAN
 SCALE: 1/8" = 1'-0"



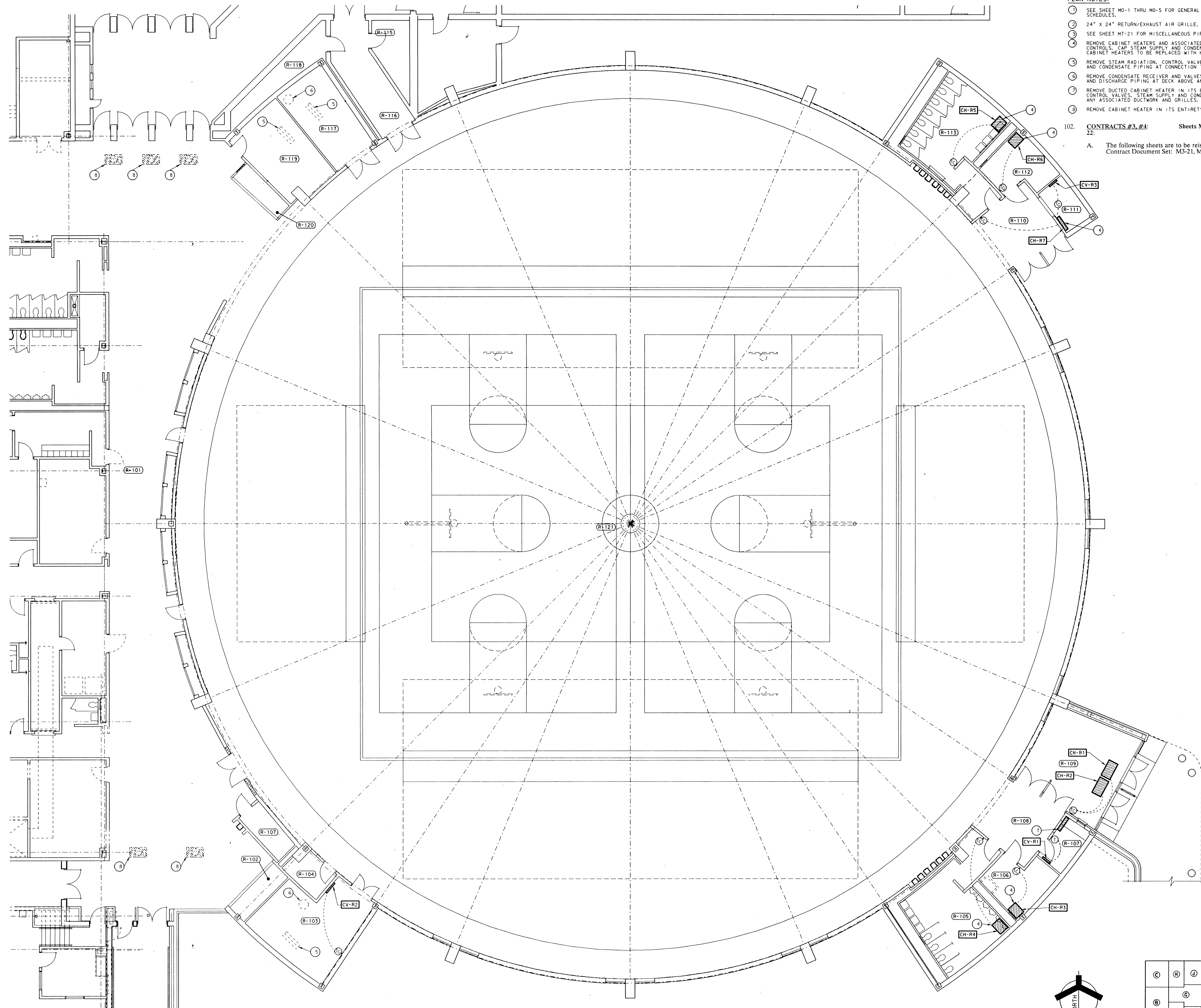
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ADDITION TO and RENOVATION OF LAWRENCE CENTRAL HIGH SCHOOL
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VERETT I. BROWN Company
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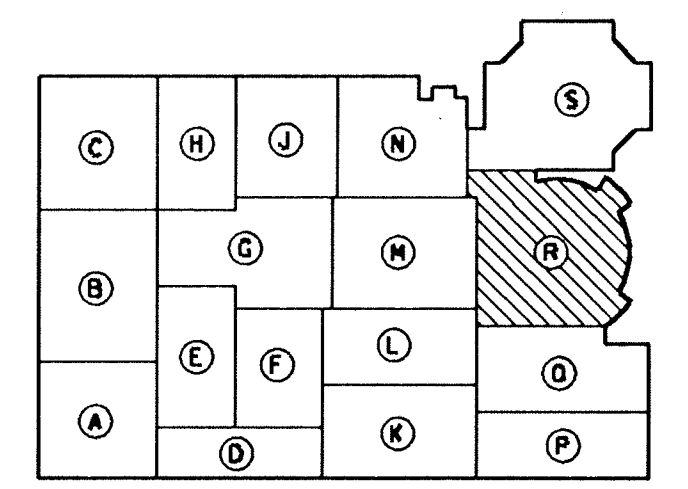
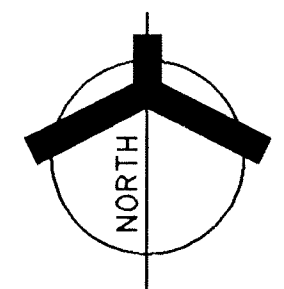
NO. M3-20 OF 22



- PLAN NOTES:**
- 1 SEE SHEET M0-1 THRU M0-5 FOR GENERAL NOTES, LEGEND AND SCHEDULES.
 - 2 24" X 24" RETURN/EXHAUST AIR GRILLE. (G-1)
 - 3 SEE SHEET M7-21 FOR MISCELLANEOUS PIPING.
 - 4 REMOVE CABINET HEATERS AND ASSOCIATED TRAPS, VALVES AND CONTROLS. CAP STEAM SUPPLY AND CONDENSATE LINES AT MAINS. CABINET HEATERS TO BE REPLACED WITH HOT WATER UNITS.
 - 5 REMOVE STEAM RADIATION, CONTROL VALVES AND TRAPS. CAP SUPPLY AND CONDENSATE PIPING AT CONNECTION TO MAINS.
 - 6 REMOVE CONDENSATE RECEIVER AND VALVES. CAP CONDENSATE SUPPLY AND DISCHARGE PIPING AT DECK ABOVE AND AT WALL.
 - 7 REMOVE DUCTED CABINET HEATER IN ITS ENTIRETY INCLUDING TRAPS CONTROL VALVES. STEAM SUPPLY AND CONDENSATE PIPING. REMOVE ANY ASSOCIATED DUCTWORK AND GRILLES.
 - 8 REMOVE CABINET HEATER IN ITS ENTIRETY.
102. **CONTRACTS #3, #4:** Sheets M3-21, M3-22, M7-21, and M7-22:
- A. The following sheets are to be reissued and incorporated into the Contract Document Set: M3-21, M3-22, M7-21, and M7-22.

UNIT "R" HEATING AND VENTILATING FIRST FLOOR PLAN

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



KEY PLAN
NOT TO SCALE

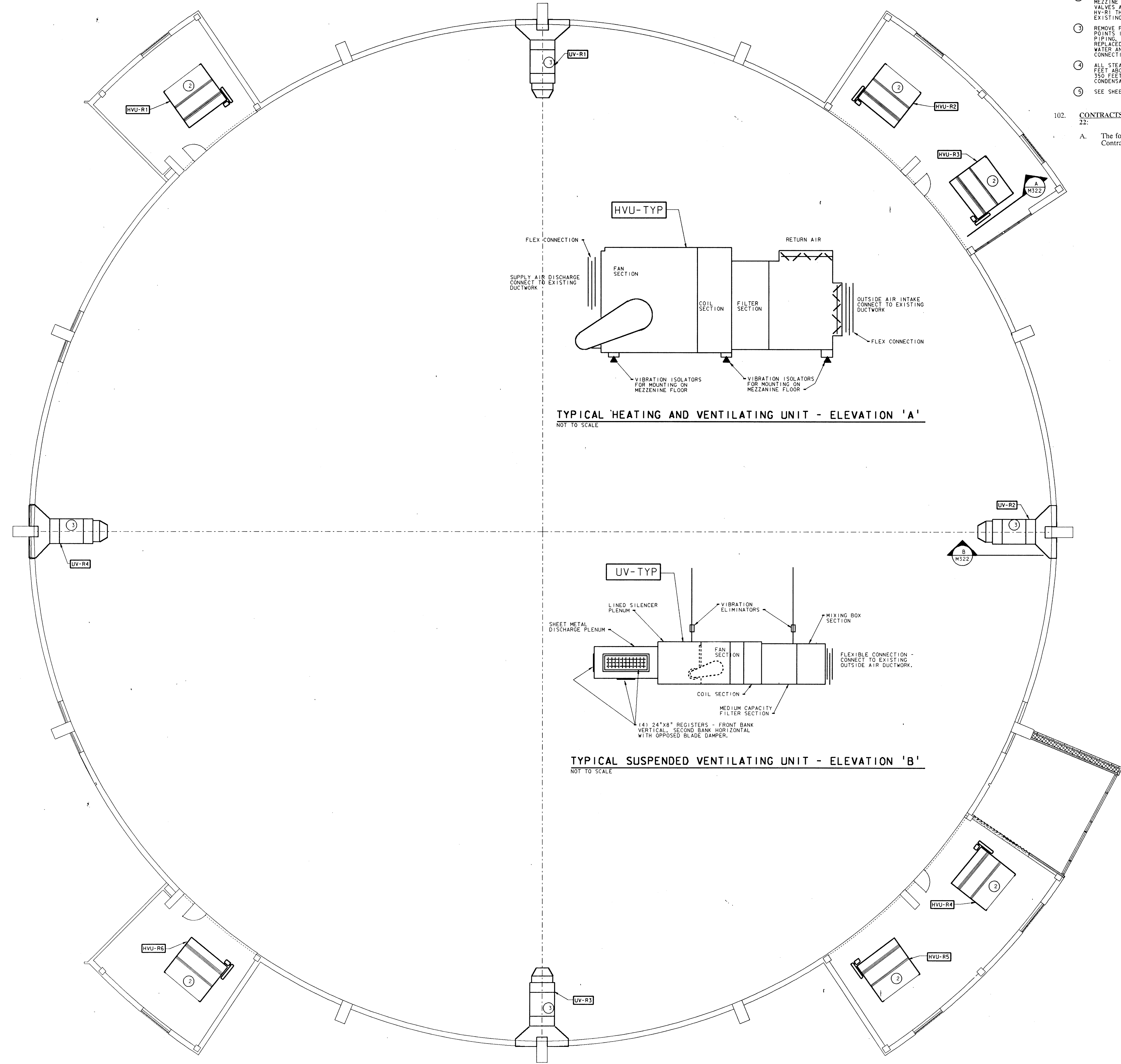
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**ADDITION TO and RENOVATION OF
LAWRENCE CENTRAL HIGH SCHOOL**
for the METROPOLITAN SCHOOL DISTRICT of LAWRENCE TOWNSHIP
MARION COUNTY, INDIANA

EVERETT I. BROWN Company
EDBROWN
Architects & Engineers
950 NORTH MERIDIAN STREET
INDIANAPOLIS, INDIANA 46204
(317) 237-1000



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- PLAN NOTES:**
- 1 SEE SHEET M0-1 THRU M0-5 FOR GENERAL NOTES, LEGEND AND SCHEDULES.
 - 2 REMOVE SIX EXISTING HEATING AND VENTILATING UNITS FROM MEZZANINE AREAS INCLUDING STEAM AND CONDENSATE PIPING, TRAPS, VALVES AND CONTROLS. THESE UNITS TO BE REPLACED WITH UNITS HVU-R1 THRU HVU-R6, SUPPLIED WITH HOT WATER AND CONNECTED TO EXISTING DUCTWORK WITH NEW FLEXIBLE CONNECTORS.
 - 3 REMOVE FOUR EXISTING VENTILATING UNITS MOUNTED AT QUARTER POINTS IN THE GYMNASIUM SPACE INCLUDING STEAM AND CONDENSATE PIPING, TRAPS, VALVES AND CONTROLS. THESE UNITS TO BE REPLACED WITH UNITS UV-R1 THRU UV-R4, SUPPLIED WITH HOT WATER AND CONNECTED TO EXISTING DUCTWORK WITH NEW FLEXIBLE CONNECTIONS.
 - 4 ALL STEAM AND CONDENSATE PIPING SUSPENDED APPROXIMATELY 16 FEET ABOVE THE GYMNASIUM FLOOR TO BE REMOVED, APPROXIMATELY 350 FEET OF 5" STEAM MAIN AND APPROXIMATELY 475 FEET OF 2" CONDENSATE PIPING. CONTRACTOR TO FIELD VERIFY.
 - 5 SEE SHEET M7-22 FOR HEATING WATER SUPPLY AND RETURN PIPING.

102. **CONTRACTS #3, #4:** Sheets M3-21, M3-22, M7-21, and M7-22.
 A. The following sheets are to be reissued and incorporated into the Contract Document Set: M3-21, M3-22, M7-21, and M7-22.

TYPICAL HEATING AND VENTILATING UNIT - ELEVATION 'A'
 NOT TO SCALE

TYPICAL SUSPENDED VENTILATING UNIT - ELEVATION 'B'
 NOT TO SCALE

UNIT "R" HEATING AND VENTILATING MEZZANINE PLAN

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

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 MARION COUNTY, INDIANA

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Log. no. _____
 Log. name R22
 Ref. #11a L040200.DWG
 Level: 1, 2, 3
 Date: 11/19/89

CONTRACT #3: Sheet #M4-1:

A. On Sheet M4-1, add the Following Plan Notes:

75. Boiler Compression Tank: (Heating Hot Water)

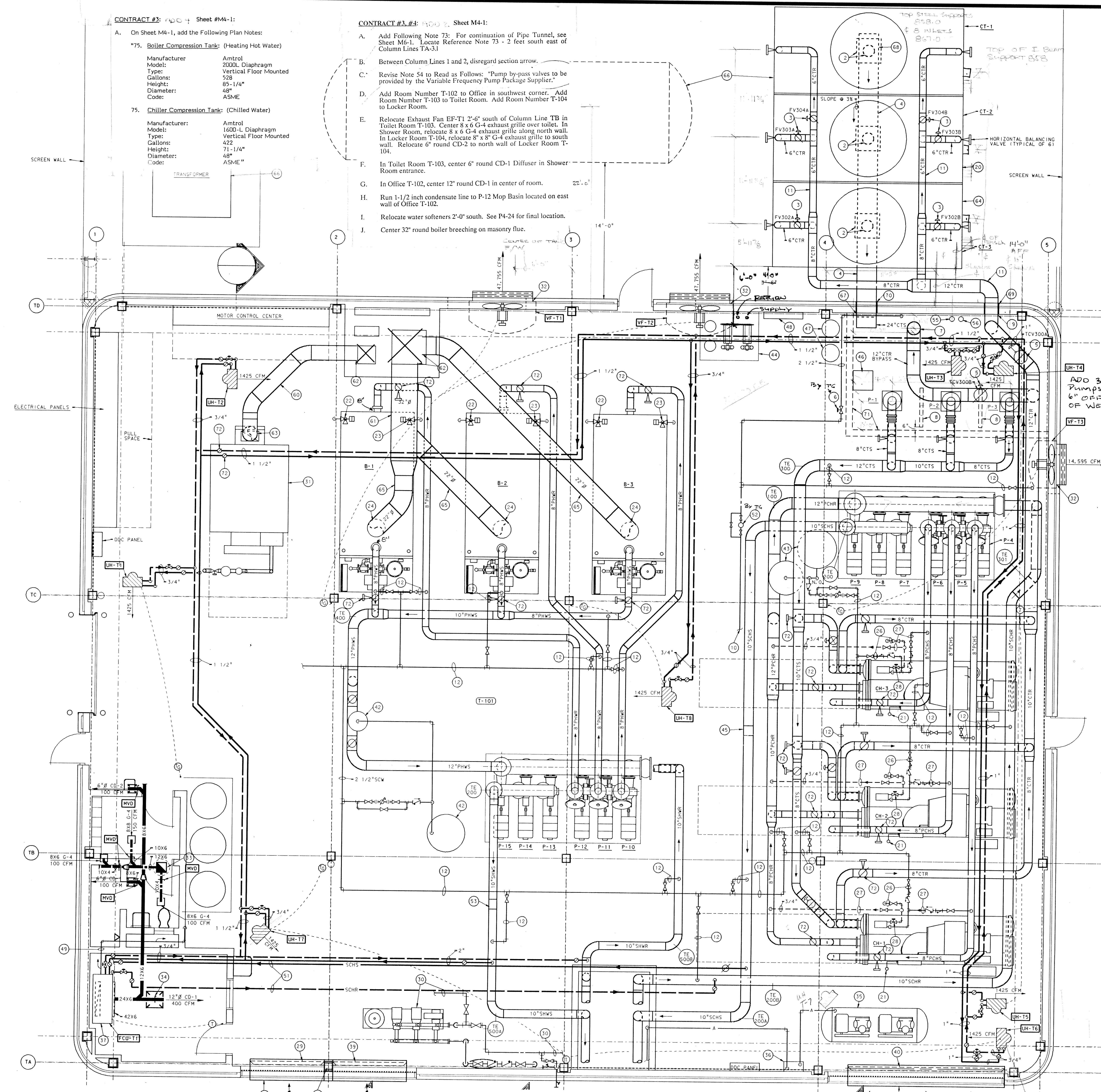
Manufacturer: Amtrol
Model: 2000-L Diaphragm
Type: Vertical Floor Mounted
Gallons: 528
Height: 85-1/4"
Diameter: 48"
Code: ASME

75. Chiller Compression Tank: (Chilled Water)

Manufacturer: Amtrol
Model: 1600-L Diaphragm
Type: Vertical Floor Mounted
Gallons: 422
Height: 71-1/4"
Diameter: 48"
Code: ASME

CONTRACT #3, #4: Sheet M4-1:

- A. Add Following Note 73: For continuation of Pipe Tunnel, see Sheet M6-1. Locate Reference Note 73 - 2 feet south east of Column Lines TA-3.1
- B. Between Column Lines 1 and 2, disregard section arrow.
- C. Revise Note 54 to Read as Follows: "Pump by-pass valves to be provided by the Variable Frequency Pump Package Supplier."
- D. Add Room Number T-102 to Office in southwest corner. Add Room Number T-103 to Toilet Room. Add Room Number T-104 to Locker Room.
- E. Relocate Exhaust Fan EF-T1 2'-6" south of Column Line TB in Toilet Room T-103. Center 8' x 6' G-4 exhaust grille over toilet. In Shower Room, relocate 8' x 6' G-4 exhaust grille along north wall. In Locker Room T-104, relocate 8' x 8' G-4 exhaust grille to south wall. Relocate 6" round CD-2 to north wall of Locker Room T-104.
- F. In Toilet Room T-103, center 6" round CD-1 Diffuser in Shower Room entrance.
- G. In Office T-102, center 12" round CD-1 in center of room.
- H. Run 1-1/2 inch condensate line to P-12 Mop Basin located on east wall of Office T-102.
- I. Relocate water softeners 2'-0" south. See P4-24 for final location.
- J. Center 32" round boiler breaching on masonry flue.

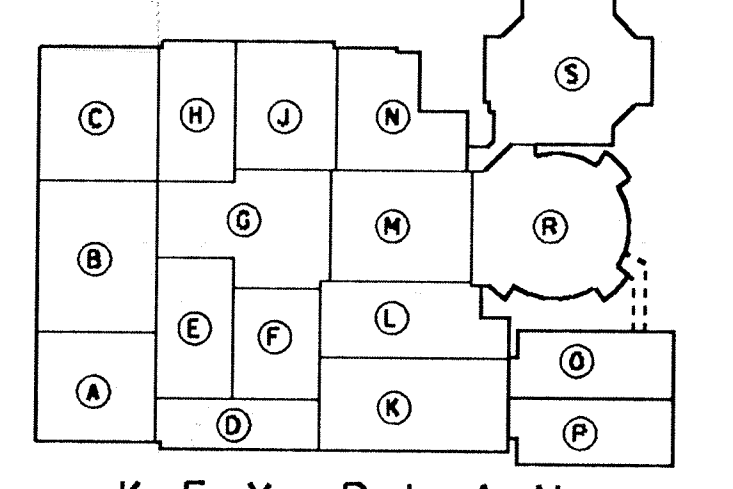
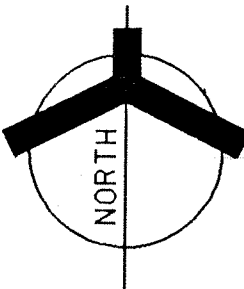


- PLAN NOTES:**
1. SEE SHEET M0-1 THRU M0-5 FOR GENERAL NOTES, LEGEND AND SCHEDULES.
 2. THE COOLING TOWER MANUFACTURER SHALL PROVIDE A 14" BOTTOM OUTLET FROM TOWER BASIN WITH TRASH SCREEN, ANTI-VORTEX BAR AND MUD SILLS.
 3. 8" AUTOMATIC BUTTERFLY VALVES FOR COOLING TOWER ISOLATION.
 4. 24" BURIED COOLING TOWER SUPPLY PIPE TO SUMP PIT. PIPE TO SLOPE AT 3% TOWARD SUMP BASIN.
 5. 12" AUTOMATIC COOLING TOWER BYPASS VALVES.
 6. 2 1/2" AUTOMATIC COOLING TOWER MAKE-UP CONTROL VALVE LCV300.
 7. 12" COOLING TOWER BYPASS LINE DOWN TO SUMP BASIN.
 8. 12" COOLING TOWER BYPASS LINE DOWN TO SUMP BASIN.
 9. CONCRETE ANTI-CAVITATION BAFFLE. 4" THICK BY 48" LONG BY 84" HIGH.
 10. INVERT ELEVATION FROM FINISHED FLOOR OF 16" CTR LINE IS 867.5'.
 11. SEE SHEET P4-24 FOR CONTINUATION OF 2 1/2" COOLING TOWER MAKE-UP AND FILL LINE.
 12. PROVIDE INSULATED ALUMINUM JACKET AROUND ALL EXPOSED COOLING TOWER PIPING.
 13. 2 1/2" FILL LINE.
 14. ALL VALVES, THERMOMETERS, GAUGES, FEEDERS, FITTINGS, ETC., NOTED ON BOILERS, CHILLERS, PUMPS AND COMPRESSION TANKS ARE TYPICAL FOR ALL BOILERS, CHILLERS, PUMPS AND COMPRESSION TANKS.
 15. ALL COMPRESSION TANK PIPING SHALL PITCH UP IN DIRECTION OF TANKS 1" IN 5'-0" MINIMUM.
 16. INSTALL AN AUTOMATIC AIR VENT AT THE HIGH POINT OF EACH CIRCULATING PUMP DISCHARGE AND AT THE HIGH POINT OF EACH HEATING OR CHILLED WATER RETURN MAIN ENTERING THE BOILER ROOM.
 17. ALL SIGHT GLASSES, THERMOMETERS AND GAUGES SHALL BE INSTALLED AT 30" FROM VERTICAL AND SHALL BE EASILY READABLE FROM THE FLOOR (SEE SPECIFICATIONS).
 18. ALL PRESSURE RELIEF VALVES, TEMPERATURE RELIEF VALVES, DRAIN VALVES, ETC., SHALL HAVE A DRAIN LINE FULL SIZE OF OUTLET, RUN TO NEAREST HOPPER DRAIN, TRENCH DRAIN OR SUMP PIT.
 19. ALL HORIZONTAL PIPING WITHIN THE BOILER ROOM SHALL BE SUSPENDED ON RUBBER-IN-SHEAR HANGERS (SEE SPECIFICATIONS).
 20. ALL TEMPERATURE REGULATING VALVES, 3-WAY MIXING VALVES, SOLENOID VALVES, AUTOMATIC DRAIN VALVES, ETC. SHALL BE PROVIDED BY THE TEMPERATURE CONTROL CONTRACTOR.
 21. COOLING TOWER
 22. PROVIDE 3" REFRIGERANT RELIEF VENT LINE FROM CHILLER THRU ROOF AND TERMINATE IN GOOSENECK 24" ABOVE FINISHED ROOF. INCREASE TO 4" PRIOR TO PASSING THRU ROOF.
 23. 30 PSI RELIEF VALVE.
 24. 35 PSI RELIEF VALVE.
 25. 22"Ø BOILER BREACHING TO MASONRY STACK.
 26. SEE SHEET P4-17 FOR SOFT COLD WATER CONTINUATION.
 27. 3/4" BACK-UP OIL COOLER PURGE LINE. VALVES ARE NORMALLY CLOSED. DROP RETURN LINE OVER FLOOR DRAIN.
 28. 3/4" PRIMARY OIL COOLER LINE.
 29. AUTOMATIC CONTROL VALVE FOR CHILLER OIL COOLER SUPPLIED AND INSTALLED BY CHILLER SUPPLIER.
 30. 8"-8"x10'-0" AUTOMATIC COMBUSTION AIR AND VENTILATION DAMPER. TO BE INSTALLED IN GOOSENECK 24" ABOVE FINISHED ROOF. INTERLOCK DAMPER TO VF-T1, VF-T2 AND VF-T3 MOTOR STARTERS SO THAT DAMPER WILL FULLY OPEN WHEN FANS ARE ENERGIZED. DOMESTIC WATER HEATER DAMPER TO REMAIN IN A 20% OPEN POSITION.
 31. DOMESTIC WATER BOOSTER PUMPS. SEE SHEET P4-24 FOR CONTINUATION OF PIPING.
 32. DOMESTIC WATER HEATER. SEE SHEET P4-24 FOR PIPING.
 33. VENTILATION FAN VF-T1 AND VF-T2. SEE SHEET A3-5 FOR WALL ELEVATION.
 34. 14"x14" EXHAUST DUCT UP TO EF-T1 ON ROOF.
 35. PROVIDE MANUAL VOLUME DAMPER IN DIFFUSER NECK.
 36. TEMPERATURE CONTROL AIR COMPRESSOR.
 37. AIR DRYER.
 38. FAN COIL UNIT WITH 43 3/4"x6 1/16" BOTTOM RETURN GRILLE AND SUPPLY AIR DUCT COLLAR. SEE SCHEDULE.
 39. 18"-Ø LONG X 10'-0" HIGH OUTSIDE AIR LOUVER. LOUVER TO BE PROVIDED AND INSTALLED BY ROOFING CONTRACTOR. LOUVERS SHALL BE MOUNTED 2'-0" ABOVE FINISHED FLOOR. SEE SHEET A3-5 FOR WALL ELEVATION.
 40. TEMPERATURE CONTROL CONTRACTOR TO PROVIDE (2) 8'-6"x10'-0" AUTOMATIC DAMPERS BEHIND OUTSIDE AIR LOUVER. SEE NOTE 40 FOR CONTROL.
 41. SEE SCHEDULE SHEETS M0-1 THRU M0-5 FOR EQUIPMENT SELECTION.
 42. HOT WATER AIR SEPARATOR AND COMPRESSION TANK.
 43. CHILLED WATER AIR SEPARATOR AND COMPRESSION TANK.
 44. SEE SHEET P4-24 FOR FUEL OIL PUMPS, PIPING AND NATURAL GAS PIPING.
 45. CHILLED WATER FLOW METER TRANSMITTER, FT500.
 46. 24" X 24" ACCESS DOOR TO COOLING TOWER SUMP.
 47. COOLING TOWER WATER TREATMENT TANKS.
 48. COOLING TOWER WATER TREATMENT CONTROL PANEL AND FEEDER SYSTEM MOUNTED ON WALL ABOVE SINK.
 49. 1 1/2" CONDENSATE DRAIN.
 50. PROVIDE INSULATED BACKING PLATE BEHIND LOUVER AT COLUMN 2-TA.
 51. 1"SCHS AND SCHR LINES.
 52. TOWER WATER MAKE-UP FLOWMETER, FT500.
 53. HOT WATER FLOW METER TRANSMITTER, FT500.
 54. PUMP BY-PASS VALVES TO BE BY PACKAGE PUMP SUPPLIER.
 55. 6" VENT UP GOOSENECK 5'-0" ABOVE FINISHED FLOOR.
 56. 2 - 2" OPENINGS FOR WATER LEVEL PROBE.
 57. SEE SHEET S1-8 FOR EQUIPMENT HOUSEKEEPING PAD LOCATIONS.
 58. SEE SHEET M6-4 FOR HOT WATER FLOW DIAGRAM.
 59. SEE SHEET M6-5 FOR CHILLED WATER FLOW DIAGRAM.
 60. 18"Ø INSULATED BOILER BREACHING.
 61. 18"Ø INSULATED BOILER BREACHING.
 62. SEAL BOILER BREACHING AROUND MASONRY FLUE AIR TIGHT.
 63. TRANSITION 18"Ø BREACHING TO 10"x22" BOILER VENT.
 64. SEE SHEET S3-6 FOR COOLING TOWER FRAMING PLAN.
 65. 22"Ø INSULATED BOILER BREACHING.
 66. SEE SHEET C2-1 FOR SITE LOCATION OF EQUIPMENT.
 67. INVERT ELEVATION OF COOLING TOWER DRAINAGE PIPE TO SUMP BASIN 849.8'. ELEVATION OF BOILER ROOM FLOOR 853.8'.
 68. INVERT ELEVATION OF COOLING TOWER DRAINAGE PIPE FROM FINISHED GRADE. 848.7'. GRADE IS 855.2'.
 69. INVERT ELEVATION OF 12"CTR PIPE IS 868.8'. FINISHED FLOOR ELEVATION IS 853.8'.
 70. PROVIDE WATER TIGHT LINK SEAL CONNECTION AROUND SUMP PIT WALL AND PIPE.
 71. FLOOR ELEVATION OF SUMP PIT 843.8'.
 72. ISOLATION BUTTERFLY VALVE.

ADD 3 CONDENSE PUMPS TO BE 6" OFF FLOOR OF WET WELL

CONTRACT #3: Sheet #M4-1:

- A. The 8 inch pipe risers for the vertical turbine pumps P-1, P-2 and P-3 are to be provided with the following fittings: Reducers, flex connection, check valve, union, Y strainer, union, and butterfly valve.



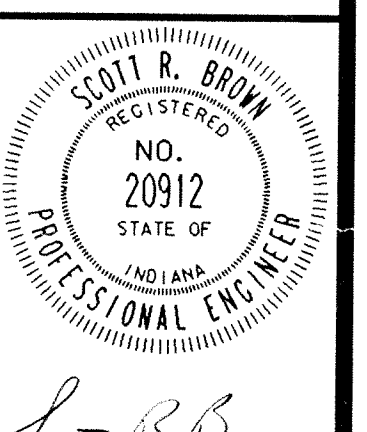
BOILER PLANT MECHANICAL PLAN

SCALE: 1/4" = 1'-0"

**ADDITION TO and RENOVATION OF
LAWRENCE CENTRAL HIGH SCHOOL**
 for the METROPOLITAN SCHOOL DISTRICT of LAWRENCE TOWNSHIP
 MARION COUNTY, INDIANA

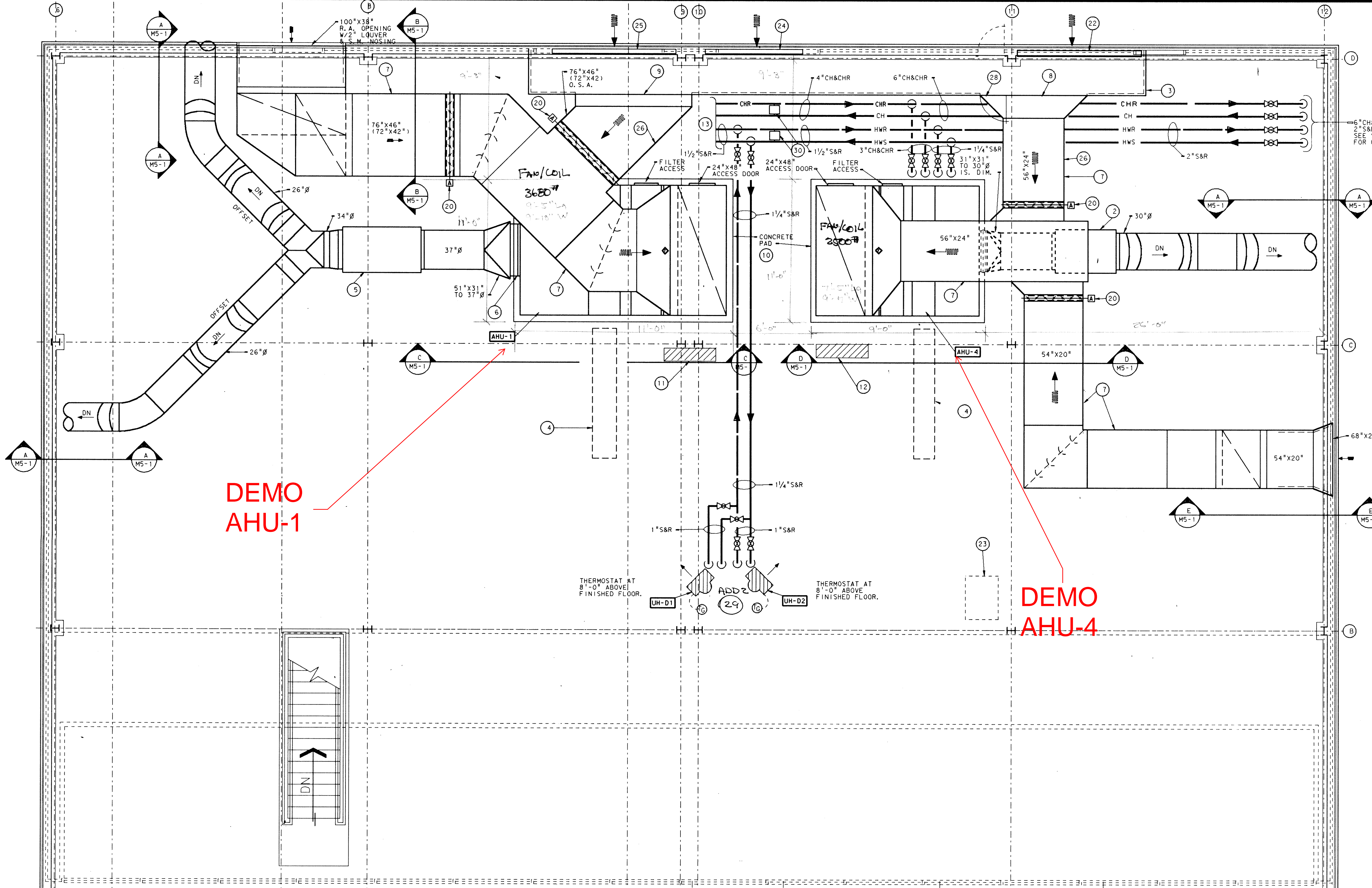
950 NORTH MERIDIAN STREET
 INDIANAPOLIS, INDIANA 46204
 (317) 237-1000

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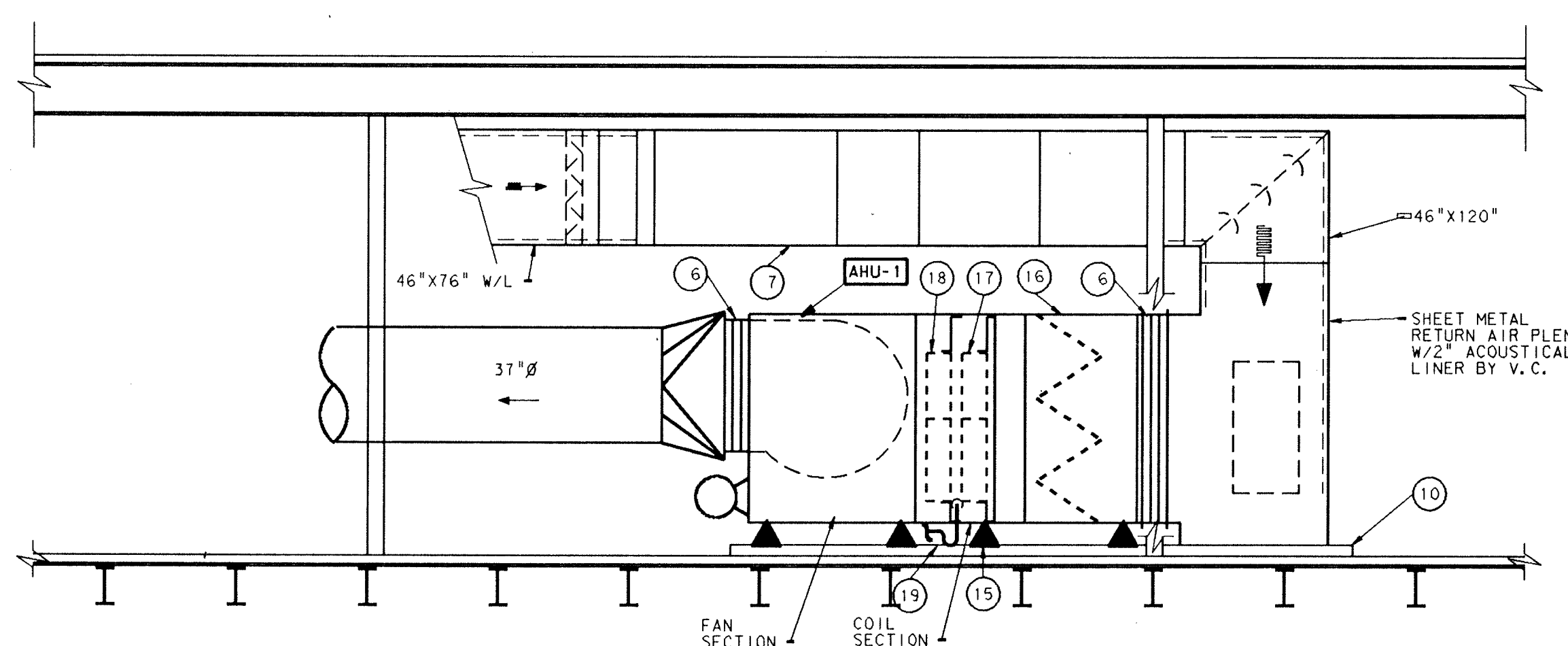
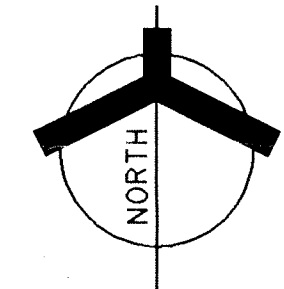


- PLAN NOTES:**
- SEE SHEET M0-1 THRU M0-5 FOR GENERAL NOTES, LEGEND AND SCHEDULES.
 - DUCT ATTENUATOR AS MANUFACTURED BY "RINK" MODEL AX30, 60-B BY THE SHEET METAL CONTRACTOR.
 - 4" THICK DOUBLE WALL INSULATED PANEL, PROVIDED AND INSTALLED BY THE SHEET METAL CONTRACTOR.
 - COIL PULL SPACE.
 - DUCT ATTENUATOR AS MANUFACTURED BY "RINK" MODEL AX36, 72-B
 - FLEXIBLE CONNECTION.
 - RETURN AIR DUCTWORK SHALL BE LINED WITH 2" THICK, 3 POUND DENSITY ACOUSTICAL INSULATION.
 - 80"x24" OUTDOOR AIR OPENING.
 - 108"x46" OUTDOOR AIR OPENING BY General Contractor
 - 4" THICK HOUSE KEEPING PAD COORDINATE FINAL SIZE AND LOCATION WITH MECHANICAL CONTRACTOR.
 - AHU-1 TEMPERATURE CONTROL PANEL BY TEMPERATURE CONTROL CONTRACTOR.
 - AHU-4 TEMPERATURE CONTROL PANEL BY TEMPERATURE CONTROL CONTRACTOR.
 - CONTINUE PIPING FOR CONNECTION TO AHU-1.
 - SEE SHEET M6-1 FOR AIR HANDLING UNIT HEATING AND COOLING COIL PIPING DIAGRAM.
 - SPRING VIBRATION ISOLATORS.
 - FILTER SECTION
 - HEATING COIL SEE SHEET M0-2 FOR SCHEDULE.
 - COOLING COIL SEE SHEET M0-2 FOR SCHEDULE.
 - CONDENSATE DRAIN WITH DEEP SEAL TRAP TERMINATED AT NEAREST FLOOR DRAIN.
 - OPPOSED BLADE PROPORTIONING DAMPERS BY TEMPERATURE CONTROL CONTRACTOR.
 - NEW 9'-6"x6'-0" HIGH WEATHER PROOF OUTSIDE AIR LOUVER. LOUVER SHALL BE PROVIDED AND INSTALLED BY ROOFING CONTRACTOR.
 - EXISTING FLOOR ACCESS PANEL TO PENTHOUSE.
 - NEW 7'-6"x6'-0" WEATHER PROOF OUTSIDE AIR LOUVER TO BE PROVIDED AND INSTALLED BY ROOFING CONTRACTOR.
 - NEW 9'-6"x6'-0" WEATHER PROOF OUTSIDE AIR LOUVER TO BE PROVIDED AND INSTALLED BY ROOFING CONTRACTOR.
 - SEE SPECIFICATION FOR OUTSIDE AIR DUCT INSULATION.
 - EXISTING UNUSED LOUVERS ARE TO BE REMOVED.
 - 24" WIDE X 7'-0" HIGH ACCESS DOOR TO OUTSIDE AIR PLENUM.
 - SEE SHEET M6-1 FOR UNIT HEATER PIPING DETAILS.
 - END OF LOOP BY-PASS SEE DETAIL SHEET M6-4.

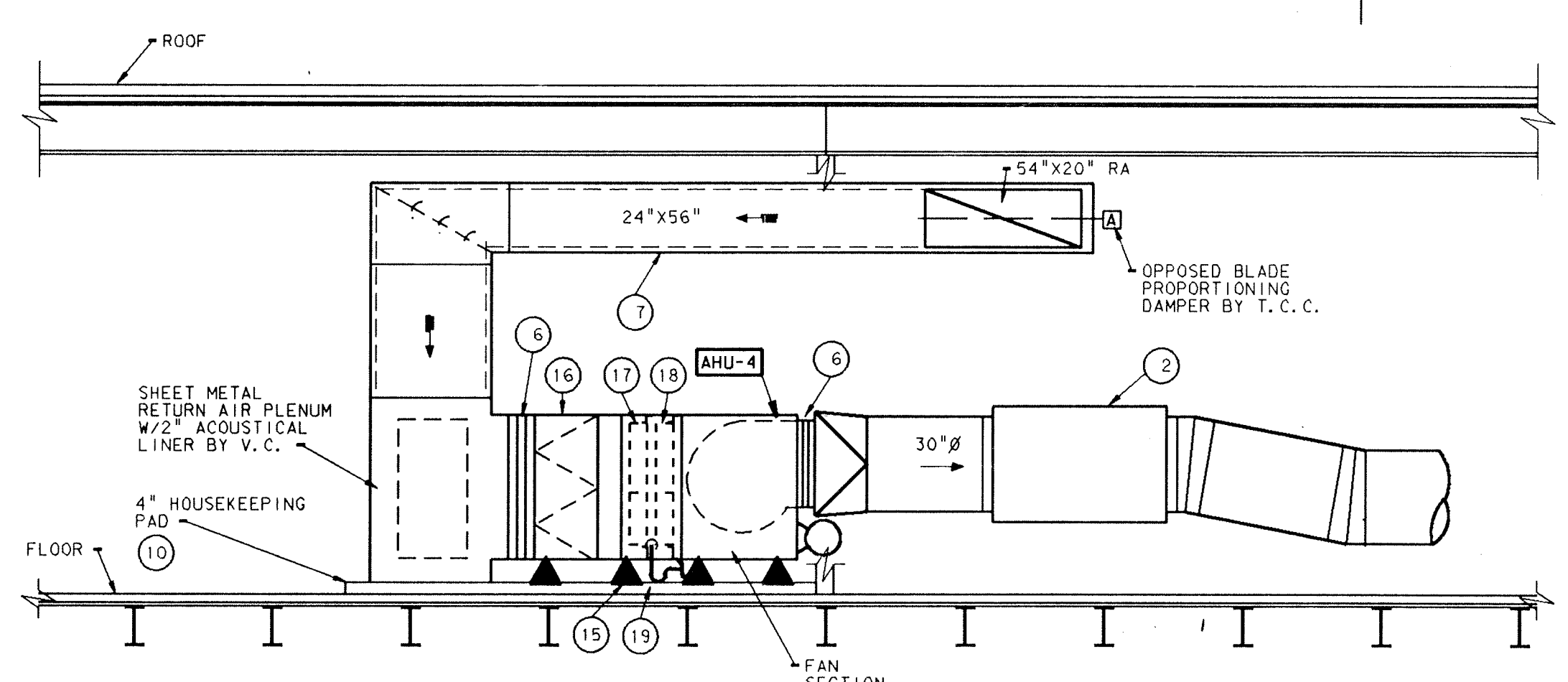
CONTRACT #3, #4: P.S. Sheet M5-1:

A. After the duct attenuator to AHU-4, add a "Y" double reducing lateral 26" round to the north and 28" round to the south. Transition the 26" round C.A. Duct to a 14" x 45" flat oval. 2 feet west of Column Line 12, provide an easy bend mitered elbow prior

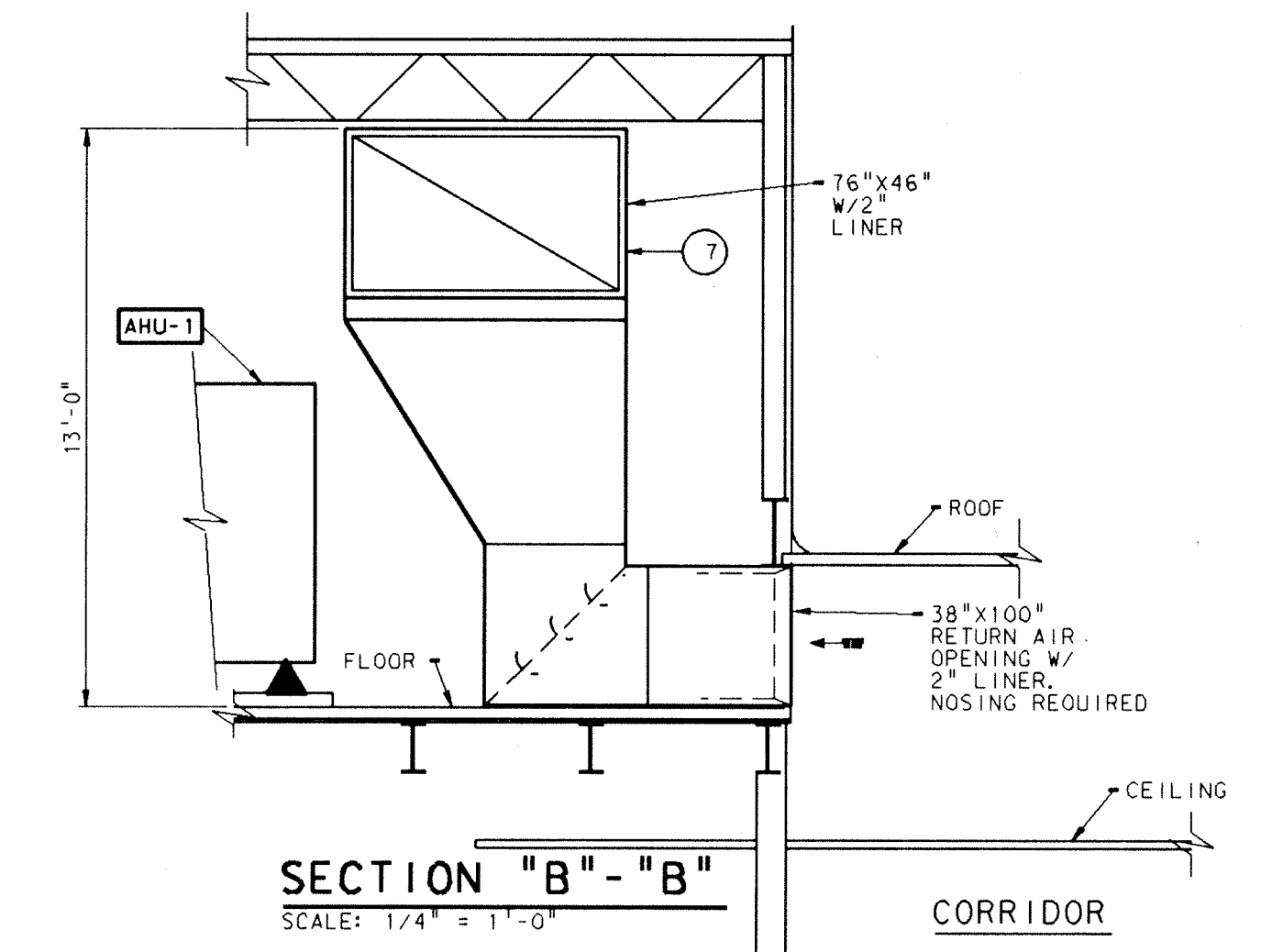
UNIT "D" PENTHOUSE #1 MECHANICAL PLAN
SCALE: 1/4" = 1'-0"



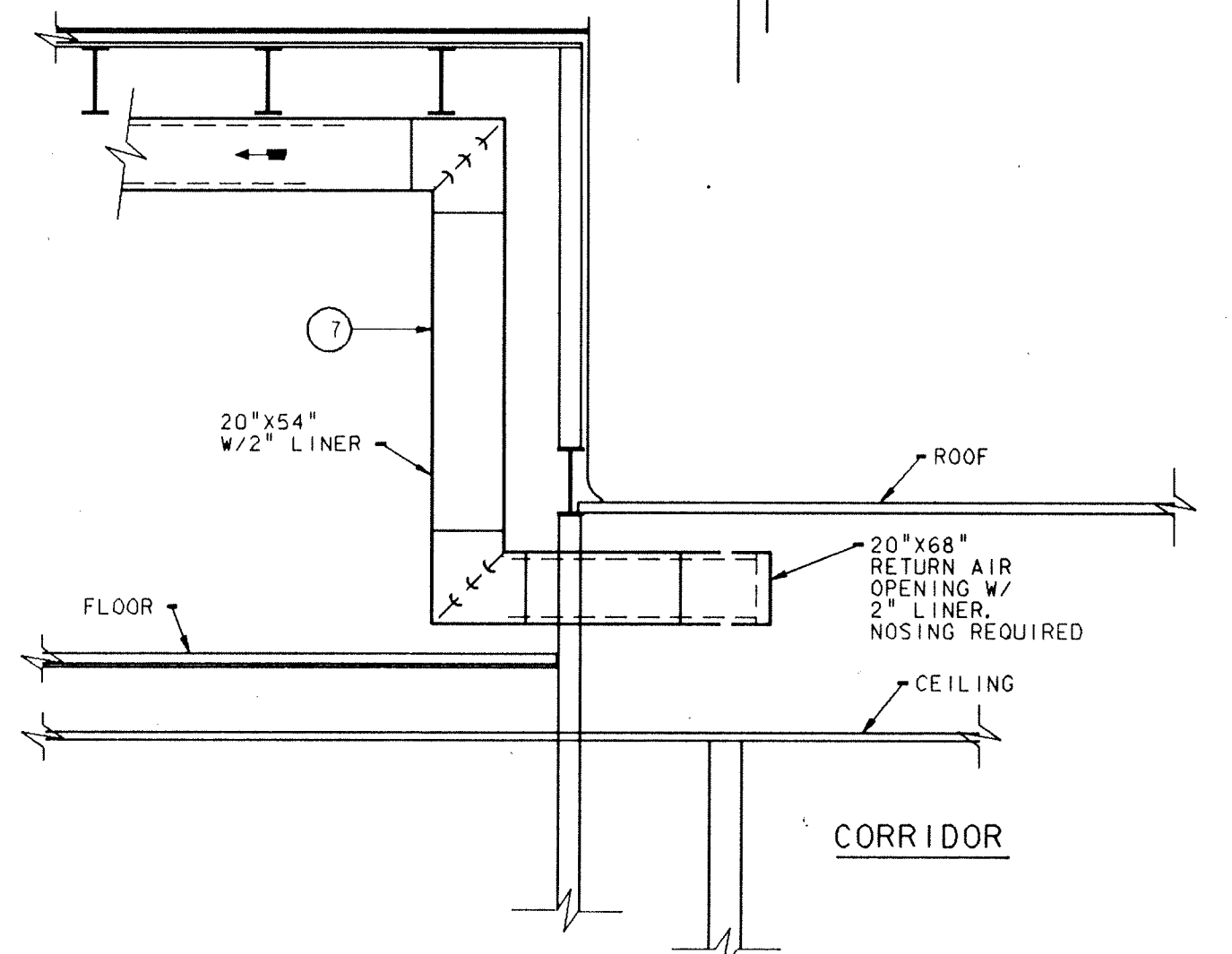
SECTION "C" - "C"
SCALE: 1/4" = 1'-0"



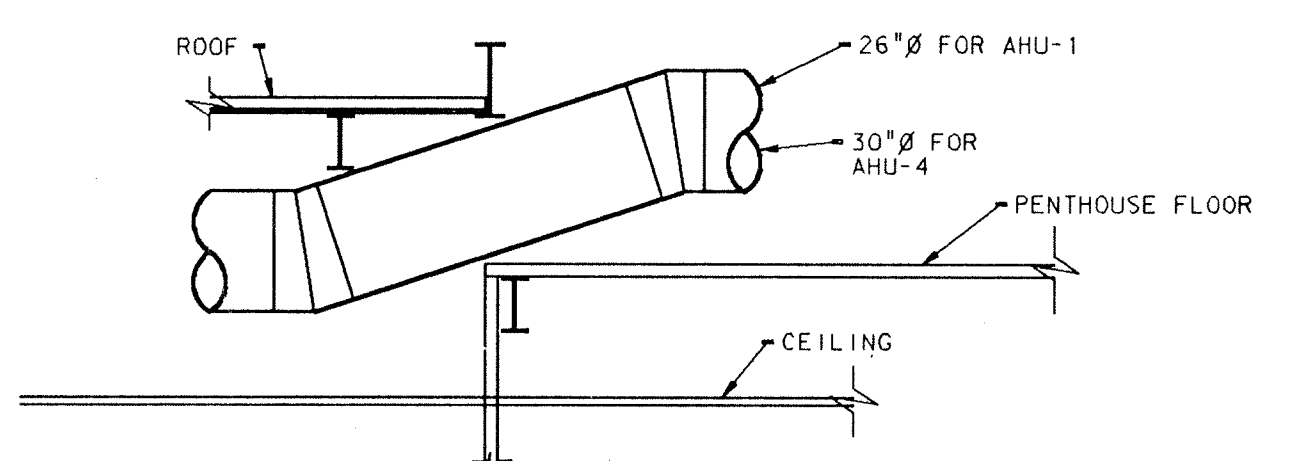
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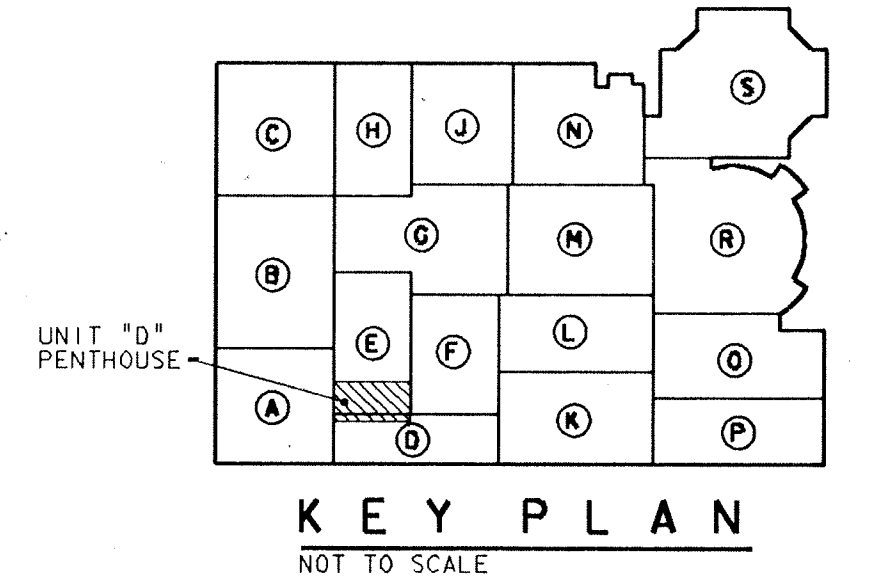
SECTION "B" - "B"
SCALE: 1/4" = 1'-0"



SECTION "E" - "E"
SCALE: 1/4" = 1'-0"



SECTION "A" - "A"
SCALE: 1/4" = 1'-0"



KEY PLAN
NOT TO SCALE

Log. num. - SHEET
Log. num. PLAN
Log. num. 4

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for the METROPOLITAN SCHOOL DISTRICT of LAWRENCE TOWNSHIP
MARION COUNTY, INDIANA

EVERETT I. Company
ED BROWN
Architects & Engineers

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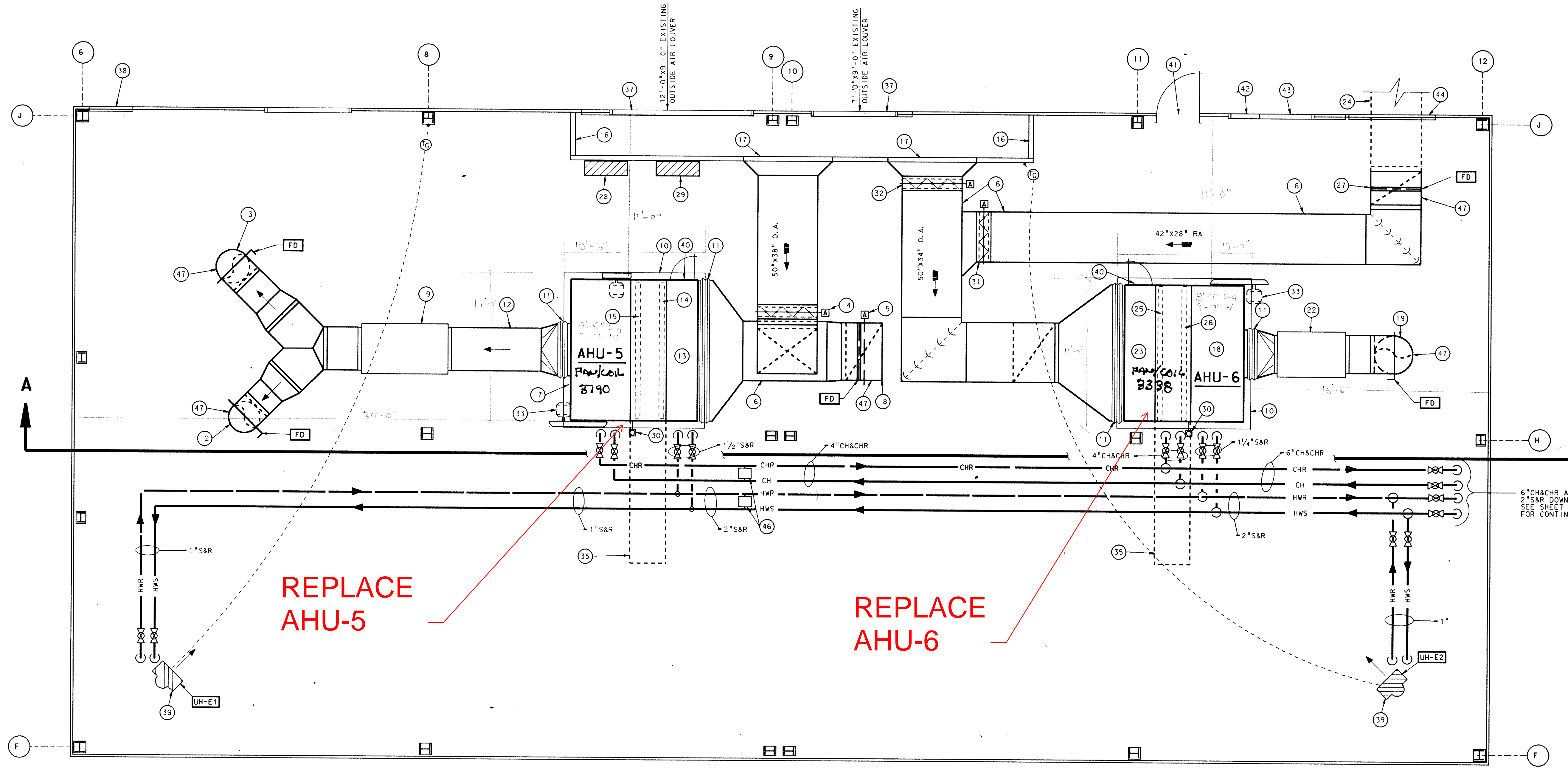
SCOTT R. BROWN
REGISTERED
NO. 20912
STATE OF
INDIANA
PROFESSIONAL ENGINEER

PROJECT
871-110

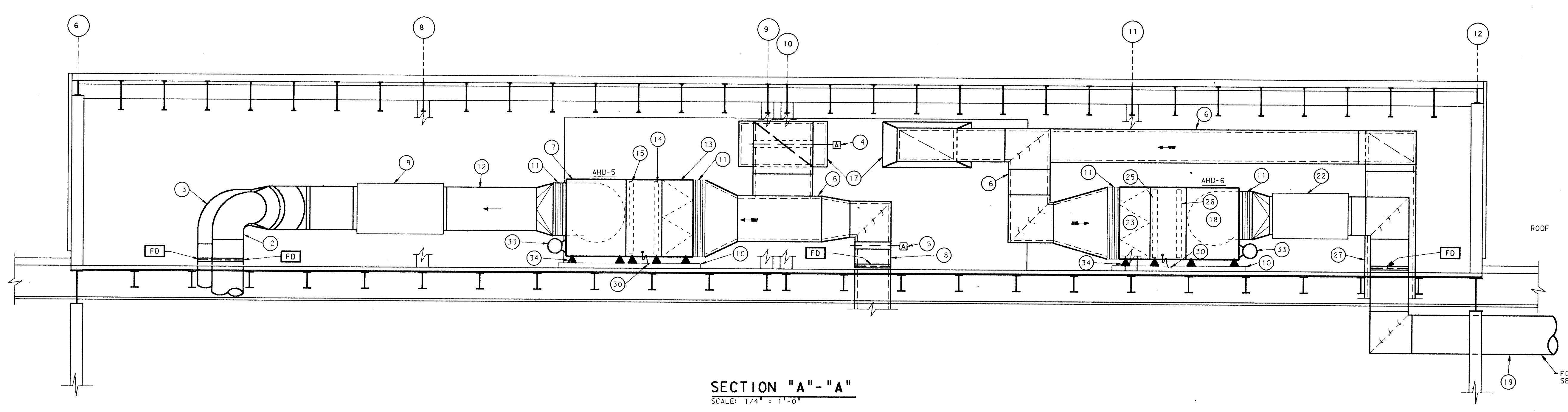
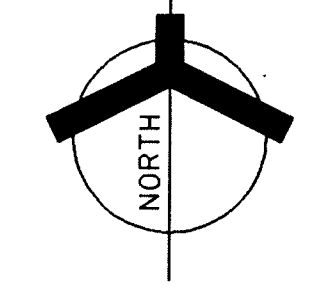
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OF 7

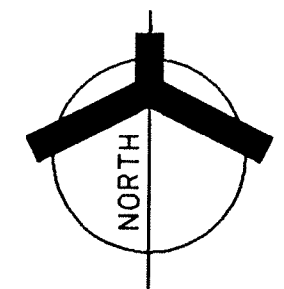
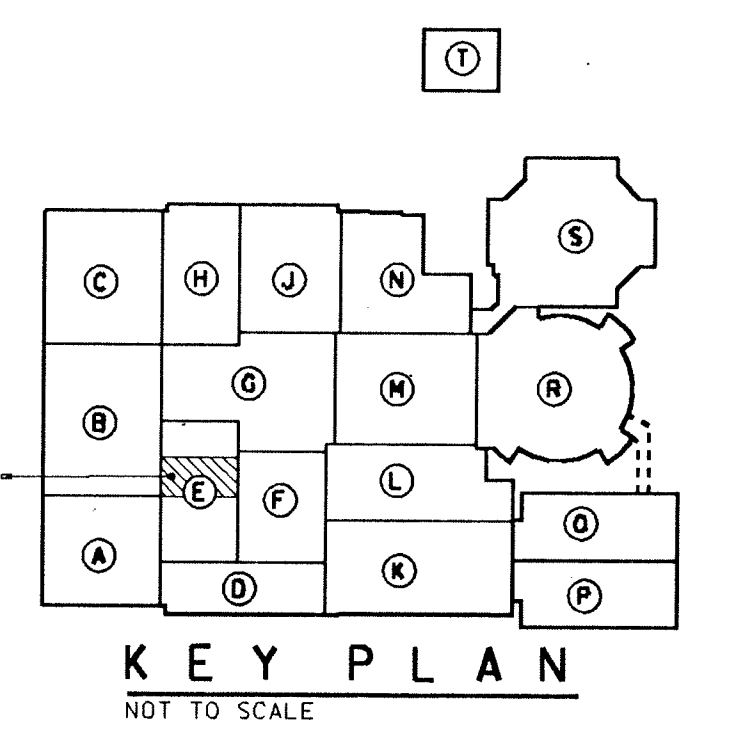


UNIT "E" PENTHOUSE #2 MECHANICAL PLAN
 SCALE: 1/4" = 1'-0"



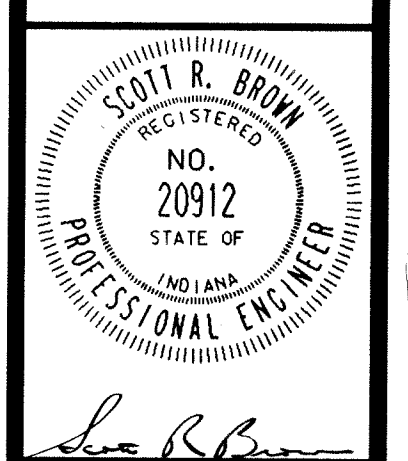
- PLAN NOTES:**
- 1 SEE SHEET M0-1 THRU M0-5 FOR GENERAL NOTES, LEGEND AND SCHEDULES.
 - 2 26"Ø CA DUCT DOWN THRU FLOOR BETWEEN JOISTS. SEE SHEET M3-5 FOR CONTINUATION.
 - 3 26"Ø CA DUCT DOWN THRU FLOOR BETWEEN JOISTS. SEE SHEET M3-5 FOR CONTINUATION.
 - 4 50"x38" AUTOMATIC OPPOSED BLADE OUTSIDE AIR DAMPER BY T.C.C.
 - 5 48"x30" AUTOMATIC OPPOSED BLADE RETURN AIR DAMPER BY T.C.C.
 - 6 RETURN AIR DUCT TO BE LINED WITH 2" THICK, 3 POUND DENSITY ACOUSTICAL INSULATION.
 - 7 AHU-5 SERVES MEDIA CENTER, UNIT "E".
 - 8 48"x30" RETURN AIR DUCT DOWN THRU FLOOR BETWEEN JOISTS. SEE SHEET M3-5 FOR CONTINUATION.
 - 9 DUCT ATTENUATOR AS MANUFACTURED BY "RINK" MODEL: AX36, 72-B.
 - 10 4" THICK HOUSE KEEPING PAD BY GENERAL CONTRACTOR. COORDINATE FINAL SIZE AND LOCATION WITH MECHANICAL CONTRACTOR.
 - 11 FLEXIBLE CONNECTION.
 - 12 36"Ø CA DUCT.
 - 13 FILTER SECTION.
 - 14 PREHEAT COIL (PHC-5). SEE SHEET M0-2 FOR SCHEDULE.
 - 15 COOLING COIL (CC-5). SEE SHEET M0-2 FOR SCHEDULE.
 - 16 4" THICK DOUBLE WALL INSULATED PANEL. PROVIDED AND INSTALLED BY SHEET METAL CONTRACTOR.
 - 17 74"x38" OUTSIDE AIR OPENING.
 - 18 AHU-6 SERVES STUDENT COMMONS, UNIT "G".
 - 19 32"Ø CA DUCT. SEE SHEET M3-5 FOR CONTINUATION.
 - 20 50"x34" AUTOMATIC OUTSIDE AIR DAMPER BY T.C.C.
 - 21 50"x24" AUTOMATIC RETURN AIR DAMPER BY T.C.C.
 - 22 DUCT ATTENUATOR AS MANUFACTURED BY "RINK" MODEL: AX32, 64-B.
 - 23 FILTER SECTION.
 - 24 SEE SHEET M3-5 FOR CONTINUATION.
 - 25 PREHEAT COIL PHC-6. SEE SHEET M0-2 FOR SCHEDULE.
 - 26 COOLING COIL CC-6. SEE SHEET M0-2 FOR SCHEDULE.
 - 27 42"x28" RETURN AIR DUCT DOWN THRU FLOOR.
 - 28 AHU-5 CONTROL PANEL BY T.C.C.
 - 29 AHU-6 CONTROL PANEL BY T.C.C.
 - 30 1 1/2" CONDENSATE DRAIN WITH DEEP SEAL TRAP TO FLOOR DRAIN.
 - 31 42"x28" AUTOMATIC OPPOSED BLADE RETURN AIR DAMPER BY T.C.C.
 - 32 50"x34" AUTOMATIC OPPOSED BLADE OUTSIDE AIR DAMPER BY T.C.C.
 - 33 FAN MOTOR.
 - 34 SPRING VIBRATION ISOLATOR (TYPICAL).
 - 35 COIL PULL SPACE.
 - 36 SEE SHEET M6-1 FOR AIR HANDLING UNIT HEATING AND COOLING COIL PIPING DIAGRAMS.
 - 37 EXISTING 12" x 9" x 9" AND 7" x 9" x 9" LOUVERS TO BE CLEANED AND REUSED.
 - 38 EXISTING 3'-0" x 4'-0" EXHAUST LOUVER. REMOVE EXISTING DUCTWORK AND PROVIDE INSULATED BACKING PLATE BEHIND LOUVER. SEE SHEET M6-1 FOR UNIT HEATER PIPING DETAIL.
 - 39 FILTER SECTION ACCESS DOOR.
 - 40 EXISTING ACCESS DOOR TO PENTHOUSE #2.
 - 41 2'-0" x 5'-0" HIGH EXISTING EXHAUST LOUVER. REMOVE SHEET METAL AND PROVIDE INSULATED BACKING PLATE.
 - 42 6'-0" x 5'-0" HIGH EXISTING EXHAUST LOUVER. REMOVE SHEET METAL AND PROVIDE INSULATED BACKING PLATE.
 - 43 6'-0" x 9'-0" HIGH EXISTING LOUVER WITH MOTORIZED DAMPERS. REMOVE DAMPERS AND PROVIDE INSULATED BACKING PLATE.
 - 44 ALL EXISTING UNUSED LOUVERS ARE TO BE PROVIDED WITH INSULATED BACKING PLATE.
 - 45 END OF LOOP BY-PASS SEE DETAIL SHEET M6-4.
 - 46 PROVIDE A FIRE DAMPER IN ALL DUCTS WHICH PASS THROUGH THE PENTHOUSE FLOOR.

- CONTRACTS #3, #4** Sheets M5-2:
- A. AUH-5: Delete motor location shown on north side of Air Handling Unit.
 - B. At Heating and Cooling Coil location for AHU-5 and AHU-6, add Reference Note 36.



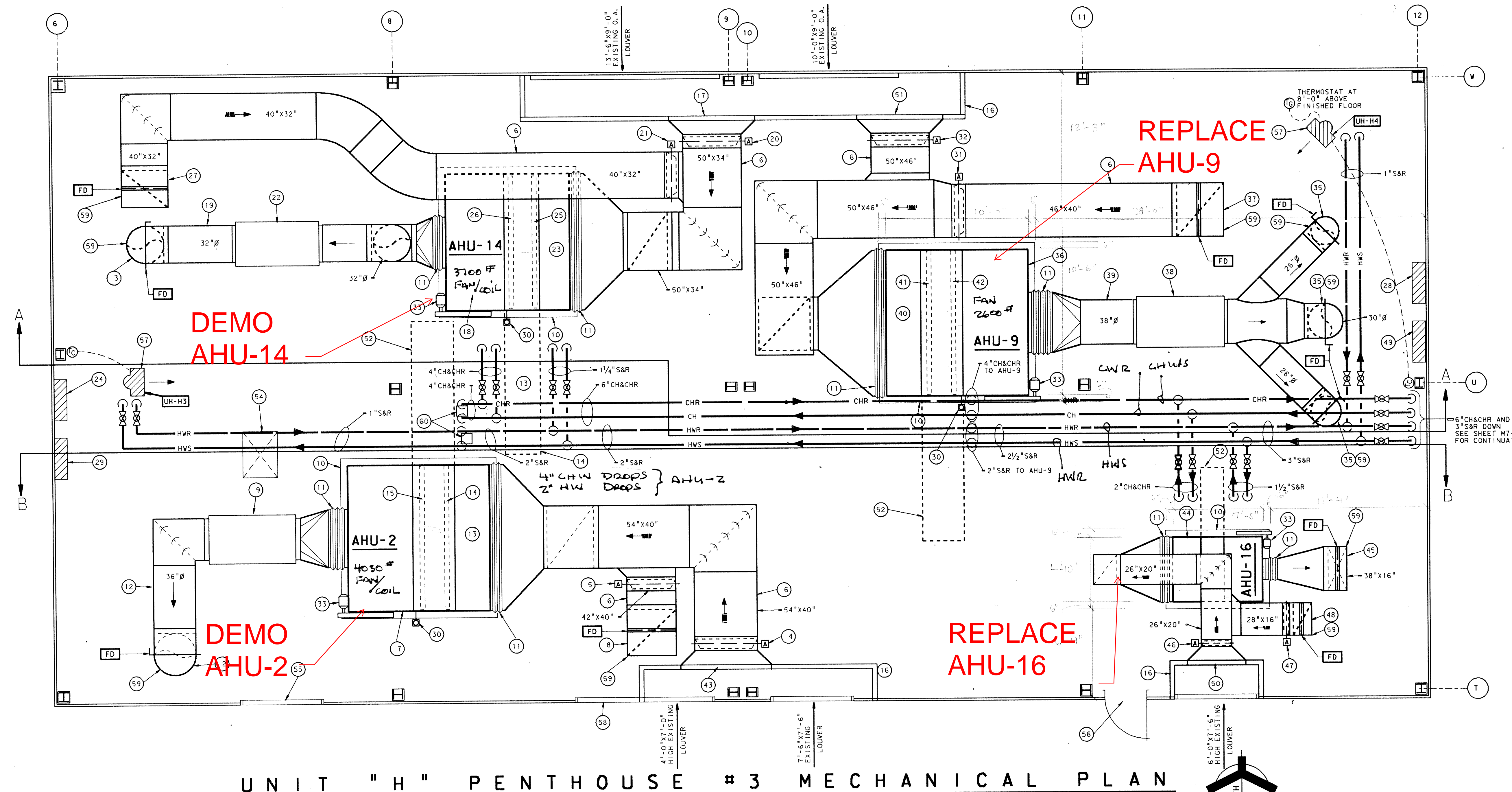
**ADDITION TO and RENOVATION OF
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EVERETT I. Company
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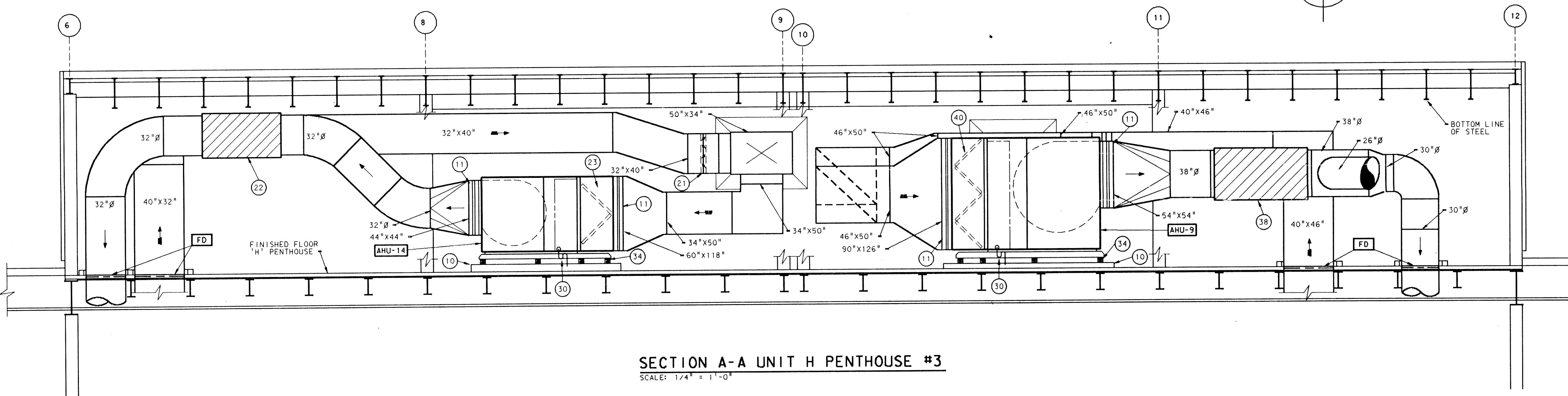


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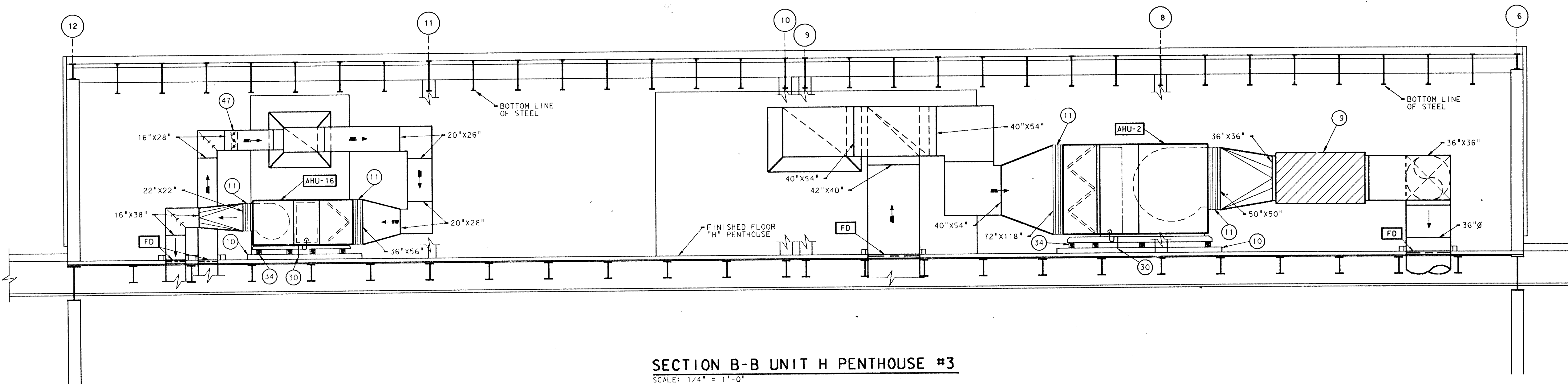
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 CHECKED BY: J. L. BROWN
 LEVEL: 1/0
 SHEET
 LOG. NO. 871-110
 L.S. NUMBER: 871-110



UNIT "H" PENTHOUSE #3 MECHANICAL PLAN
SCALE: 1/4" = 1'-0"



SECTION A-A UNIT H PENTHOUSE #3
SCALE: 1/4" = 1'-0"



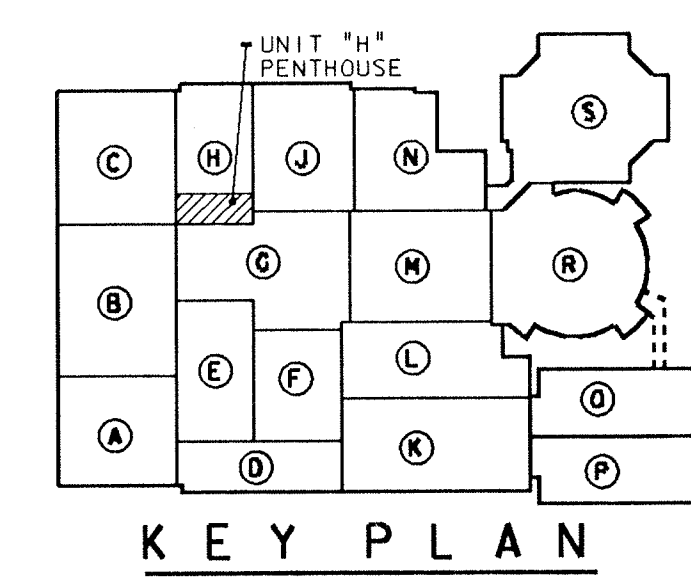
SECTION B-B UNIT H PENTHOUSE #3
SCALE: 1/4" = 1'-0"

PLAN NOTES:

- 1 SEE SHEETS M0-1 THROUGH M0-5 FOR GENERAL NOTES, LEGEND AND SCHEDULES.
- 2 36" CA DUCT DOWN THRU FLOOR. SEE SHEET M3-10 FOR CONTINUATION.
- 3 32" CA DUCT DOWN THRU FLOOR. SEE SHEET M3-10 FOR CONTINUATION.
- 4 54"x40" AUTOMATIC AIR DAMPER, BY TEMPERATURE CONTROL CONTRACTOR.
- 5 42"x40" AUTOMATIC RETURN AIR DAMPER BY TEMPERATURE CONTROL CONTRACTOR.
- 6 OUTSIDE AIR DUCT AND RETURN AIR DUCT TO BE LINED WITH 2" THICK, 3 POUND DENSITY ACOUSTICAL INSULATION.
- 7 AHU-2 SERVES UNIT "B" CLASSROOMS.
- 8 42"x40" RETURN AIR DUCT DOWN THRU FLOOR BETWEEN JOISTS. SEE SHEET M3-10 FOR CONTINUATION.
- 9 DUCT ATTENUATOR AS MANUFACTURED BY "RINK" MODEL: AX36, 72-B.
- 10 4" THICK HOUSE KEEPING PAD, COORDINATE FINAL SIZE AND LOCATION WITH MECHANICAL CONTRACTOR.
- 11 FLEXIBLE CONNECTION.
- 12 36" CA DUCT.
- 13 FILTER SECTION.
- 14 PREHEAT COIL (PHC-2). SEE SHEET M0-2 FOR SCHEDULE.
- 15 COOLING COIL (CC-2). SEE SHEET M0-2 FOR SCHEDULE.
- 16 4" INS. DOUBLE WALL INSULATED PANEL. PROVIDE AND INSTALLED BY SHEET METAL CONTRACTOR.
- 17 74"x38" OUTSIDE AIR OPENING.
- 18 AHU-14 SERVES UNIT "C".
- 19 32" CA DUCT.
- 20 50"x34" AUTOMATIC OPPOSED BLADE OUTSIDE AIR DAMPER BY TEMPERATURE CONTROL CONTRACTOR.
- 21 40"x32" AUTOMATIC OPPOSED BLADE RETURN AIR DAMPER BY TEMPERATURE CONTROL CONTRACTOR.
- 22 DUCT ATTENUATOR AS MANUFACTURED BY "RINK" MODEL: AX32, 64-B.
- 23 FILTER SECTION.
- 24 AHU-14 TEMPERATURE CONTROL PANEL BY TEMPERATURE CONTROL CONTRACTOR.
- 25 PREHEAT COIL (PHC-14). SEE SHEET M0-2 FOR SCHEDULE.
- 26 COOLING COIL (CC-14). SEE SHEET M0-2 FOR SCHEDULE.
- 27 40"x32" RETURN AIR DUCT DOWN THRU FLOOR.
- 28 AHU-9 TEMPERATURE CONTROL PANEL BY TEMPERATURE CONTROL CONTRACTOR.
- 29 AHU-2 TEMPERATURE CONTROL PANEL BY TEMPERATURE CONTROL CONTRACTOR.
- 30 1/2" CONDENSATE DRAIN WITH DEEP SEAL TRAP TO FLOOR DRAIN.
- 31 46"x40" AUTOMATIC RETURN AIR DAMPER BY TEMPERATURE CONTROL CONTRACTOR.
- 32 50"x46" AUTOMATIC OUTSIDE AIR DAMPER BY TEMPERATURE CONTROL CONTRACTOR.
- 33 FAN MOTOR.
- 34 VIBRATION ISOLATOR (TYPICAL).
- 35 26"Ø, 30"Ø AND 24"Ø DOWN THRU FLOOR. SEE SHEET M3-10 FOR CONTINUATION.
- 36 AHU-9 SERVES CAFETERIA AND KITCHEN, UNIT "H".
- 37 46"x40" RETURN AIR DUCT DOWN THRU FLOOR BETWEEN JOISTS. SEE SHEET M3-10 FOR CONTINUATION.
- 38 DUCT ATTENUATOR AS MANUFACTURED BY "RINK" MODEL AX38, 72-B.
- 39 38" CA DUCT.
- 40 FILTER SECTION.
- 41 PREHEAT COIL (PHC-9). SEE SHEET M0-2 FOR SCHEDULE.
- 42 COOLING COIL (CC-9). SEE SHEET M0-2 FOR SCHEDULE.
- 43 80"x38" OUTSIDE AIR OPENING.
- 44 AHU-16 SERVES LECTURE ROOMS, UNIT "G".
- 45 38"x16" SUPPLY AIR DUCT DOWN THRU FLOOR. SEE SHEET M3-10 FOR CONTINUATION.
- 46 26"x20" AUTOMATIC OUTSIDE AIR DAMPER BY TEMPERATURE CONTROL CONTRACTOR.
- 47 28"x16" AUTOMATIC RETURN AIR DAMPER BY TEMPERATURE CONTROL CONTRACTOR.
- 48 28"x16" RETURN AIR DUCT DOWN THRU FLOOR. SEE SHEET M3-10 FOR CONTINUATION.
- 49 AHU-16 TEMPERATURE CONTROL PANEL BY TEMPERATURE CONTROL CONTRACTOR.
- 50 50"x38" OUTSIDE AIR OPENING.
- 51 74"x46" OUTSIDE AIR OPENING.
- 52 COIL PULL SPACE.
- 53 SEE SHEET M6-1 FOR AIR HANDLING UNIT HEATING AND COOLING COIL PIPING DIAGRAM.
- 54 EXISTING FLOOR ACCESS PANEL.
- 55 4'-0" X 4'-6" HIGH EXISTING LOUVER. REMOVE SHEET METAL AND PROVIDE INSULATED BACKING PLATE BEHIND LOUVER.
- 56 EXISTING ACCESS DOOR TO PENTHOUSE #3 FROM ROOF.
- 57 SEE SHEET M6-1 FOR UNIT HEATER PIPING DIAGRAM.
- 58 EXISTING LOUVERS WHICH ARE UNUSED ARE TO BE PROVIDED WITH INSULATED BACKING PLATE.
- 59 ALL DUCT PENETRATIONS THRU PENTHOUSE FLOOR REQUIRES A FIRE DAMPER.
- 60 END OF LOOP BY-PASS SEE DETAIL SHEET M6-4.

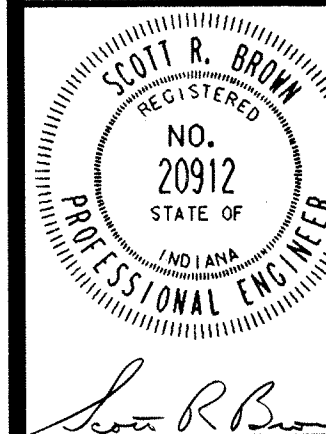
CONTRACTS #3, #4, #5: Sheets M5-3:

- A. Delete the short radius 30" round C.A. elbow shown after the Y fitting and replace with a mitered elbow.
- B. Relocate thermostat serving Unit Heater, UH-H4 to Column 11W. Provide insulated backing plate for all thermostats serving unit heaters. Mount thermostat 5'-6" above finished floor. Delete Note referencing thermostat location adjacent to UH-H4. Thermostat serving UH-H4 shall be concealed type. 105. CONTRACTS #3, #4, #5: Sheets M5-3.



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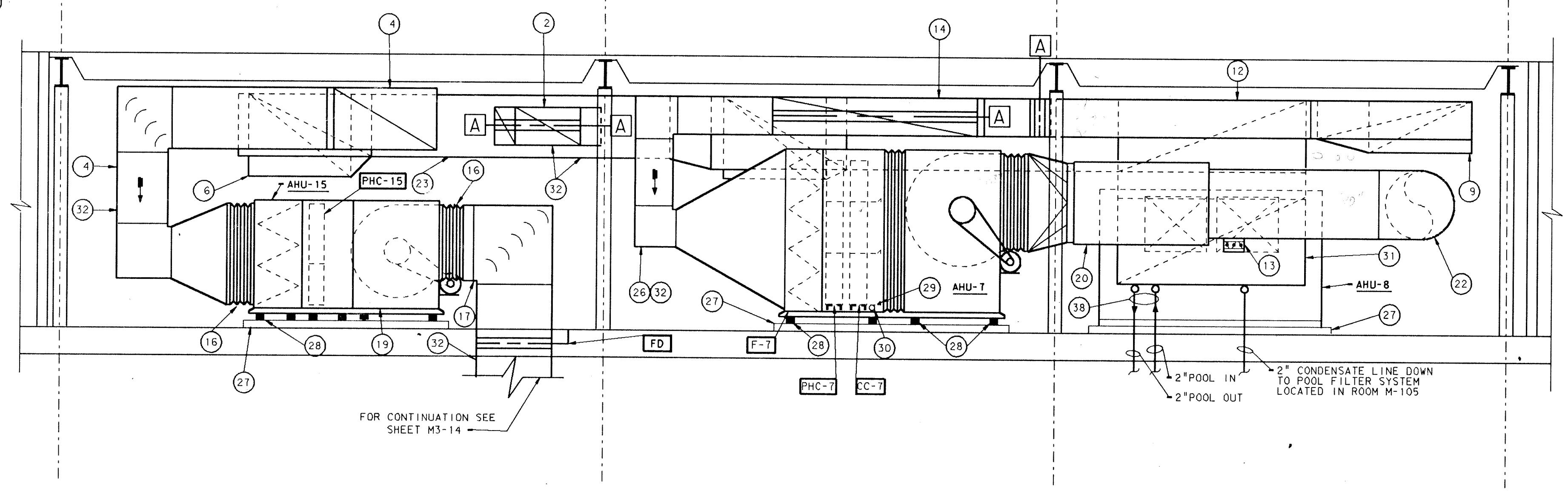
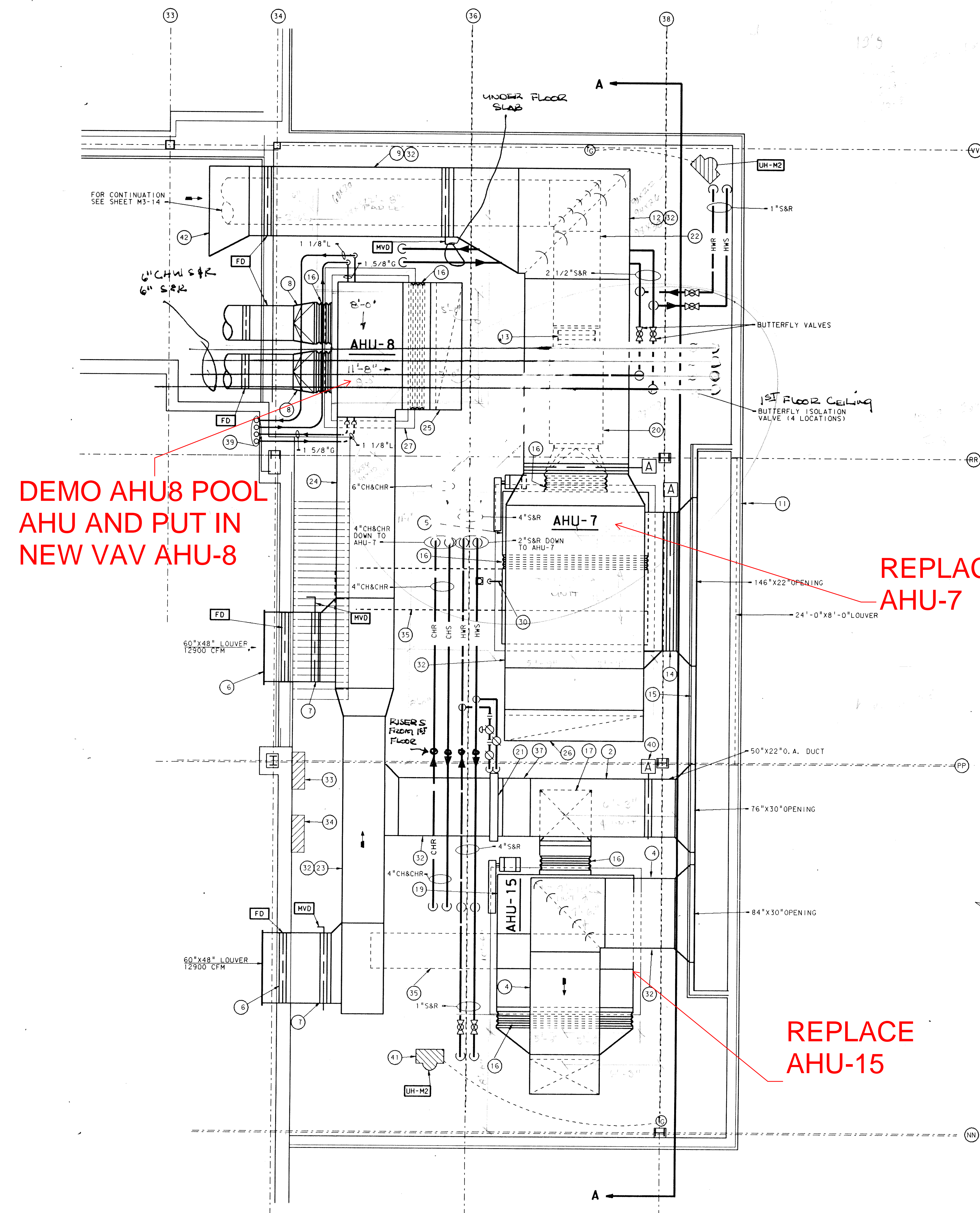
EVERETT L. BROWN Company
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 350 WEST KERRILLAN STREET
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 (317) 237-7000



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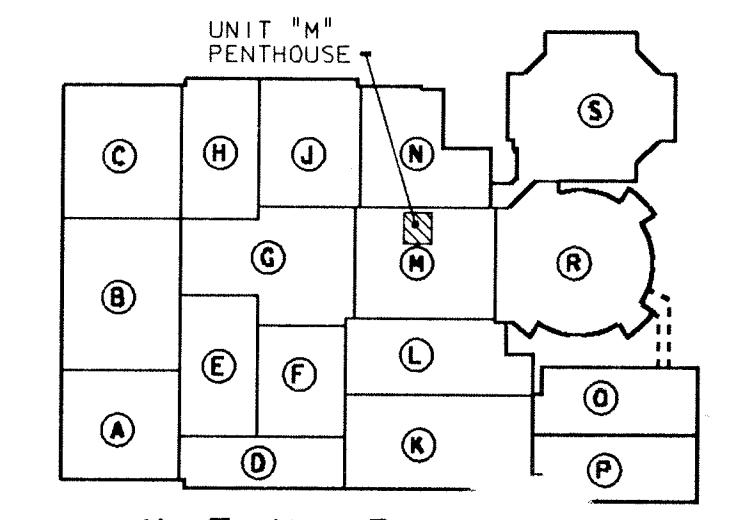
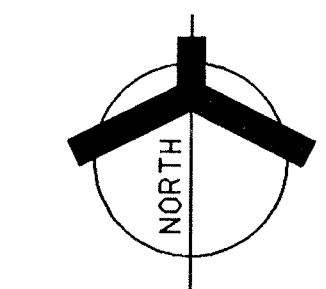
106. CONTRACTS #3, #4, #5 - Unit "M" Penthouse #4:
- A. Relocate Fire Dampers located in the 30" round C.A. Ducts serving AHU-8 to the wall.
 - B. Revise Note 39 to Read as Follows:
 - *39. Dual Circuit Refrigerant lines up to CU-1 Condensing Unit located on Diving Well Roof. See Sheet M2-3 for unit located on roof. See Sheet M6-3 for Control and Piping Diagram.

- PLAN NOTES:
1. SEE SHEET M0-1 THRU M0-5 FOR GENERAL NOTES, LEGEND AND SCHEDULES.
 2. 50"x22" LINED OUTSIDE AIR DUCT, PROVIDE 12"x22" SPLITTER IN DUCT FOR MINIMUM OUTSIDE AIR (1200 CFM), MAXIMUM OUTSIDE AIR DUCT IS 38"x22" (4000 CFM), TOTAL OUTSIDE AIR FOR DEHUMIDIFYING UNIT IS 5200 CFM.
 3. (2) 36"x36" MEDIUM PRESSURE SUPPLY AIR DUCTS DOWN THRU FLOOR.
 4. 60"x30" OUTSIDE AIR DUCT, DUCT TO BE LINED WITH 2 INCH, 3 POUND DENSITY ACOUSTICAL INSULATION.
 5. AHU-7 SERVES MUSIC WING AND LOCKER ROOMS.
 6. 60"x48" LOUVER WITH 4 BLADES, LOUVER TO BE PROVIDED AND INSTALLED BY ROOFING CONTRACTOR.
 7. TRANSITION LINED RETURN DUCT FROM A 60"x22" TO 60"x48" AT LOUVER, PROVIDE FIRE DAMPER AT ALL WALL PENETRATIONS.
 8. 36"x32" SUPPLY DUCT TRANSITION TO 30" ROUND DUCT.
 9. 60"x30" RETURN AIR DUCT, DUCT TO BE LINED WITH 2 INCH 3 POUND DENSITY ACOUSTICAL INSULATION.
 10. ALL DUCTWORK SERVING SWIMMING POOL AREA IS TO BE CONSTRUCTED OF CORROSION RESISTANT MATERIAL.
 11. OUTSIDE AIR LOUVER TO BE PROVIDED WITH 4 INCH WEATHER PROOF BLADES, LOUVER TO BE PROVIDED AND INSTALLED BY THE ROOFING CONTRACTOR.
 12. 90"x22" RETURN AIR DUCT, DUCT TO BE LINED WITH 2" THICK, 3 POUND DENSITY ACOUSTICAL INSULATION.
 13. 30"x22" DUMP DAMPER, INSTALL AT THE BOTTOM OF 40"Ø SUPPLY DUCT.
 14. 120"x22" OUTSIDE AIR DUCT, DUCT TO BE LINED WITH 2" THICK, 3 POUND DENSITY ACOUSTICAL INSULATION, AUTOMATIC OPPOSED BLADE DAMPER BY T.C.C.
 15. FRESH AIR PLENUM TO BE FABRICATED FROM A 4 INCH THICK FULLY INSULATED PANEL.
 16. FLEX CONNECTION.
 17. 44"x44" LOW VELOCITY SUPPLY AIR DUCT, LINE SUPPLY AIR DUCT WITH 2" THICK, 3 POUND DENSITY ACOUSTICAL INSULATION.
 18. AHU-8 IS DEHUMIDIFYING AND ENVIRONMENTAL UNIT FOR THE SWIMMING POOL.
 19. AHU-15 IS A LOW VELOCITY VENTILATING UNIT WHICH SERVES THE LOCKER-SHOWER ROOMS AND RECEIVING AREA.
 20. DUCT ATTENUATOR AS MANUFACTURED BY "RINK" MODEL AX 40.80-B PREHEAT COIL (PHC-8), SEE SCHEDULE SHEET M0-2.
 21. 40 INCH ROUND MEDIUM PRESSURE SUPPLY AIR DUCT, SEE SHEET M5-14 FOR CONTINUATION.
 22. 36"x36" RETURN AIR DUCT, DUCT TO BE LINED WITH 2" THICK, 3 POUND DENSITY ACOUSTICAL INSULATION.
 23. 50"x22" RETURN AIR DUCT, DUCT TO BE LINED WITH 2" THICK, 3 POUND DENSITY ACOUSTICAL INSULATION.
 24. 110"x22" RETURN AIR DUCT DOWN TO AHU-8, DUCT TO BE LINED WITH 2" THICK, 3 POUND DENSITY ACOUSTICAL INSULATION.
 25. 120"x22" RETURN & OUTSIDE AIR DUCT, DUCT TO BE LINED WITH 2" THICK, 3 POUND DENSITY ACOUSTICAL INSULATION.
 26. 4 HIGH HOUSEKEEPING PAD BY General Contractor Coordinate with Local Mechanical Contractor
 27. COOLING COIL WITH DRAIN PAN (CC-7), SEE SCHEDULE SHEET M0-2.
 28. 1 1/2" CONDENSATE DRAIN PROVIDE DEEP SEAL TRAP AND THREAD FOR HOSE CONNECTION.
 29. 110"x50" RETURN AIR DUCT TO AHU-8
 30. ALL DUCT SIZES SHOWN ARE CLEAR OPENING AREA DIMENSIONS. SHEET METAL CONTRACTOR SHALL FABRICATE LINED DUCT TO MAINTAIN CLEAR OPENING DIMENSIONS.
 31. AHU-7 TEMPERATURE CONTROL PANEL BY TEMPERATURE CONTROL CONTRACTOR.
 32. AHU-15 TEMPERATURE CONTROL PANEL BY TEMPERATURE CONTROL CONTRACTOR.
 33. COIL PULL SPACE.
 34. SEE SHEET M6-1 FOR AIR HANDLING UNIT HEATING AND COOLING COIL PIPING DIAGRAM.
 35. TRANSITION FROM 50"x22" O.A. DUCT TO 50"x30" DUCT.
 36. 2" SUPPLY AND RETURN DOWN TO PLATE FRAME HEAT EXCHANGER LOCATED IN ROOM M-105, SHEET M7-14, SEE SHEET M6-6 FOR FLOW DIAGRAM.
 37. DUAL CIRCUIT REFRIGERANT LINES TO CONDENSING UNIT ON ROOF (CU-1), SEE SHEET M2-3 FOR UNIT LOCATED ON ROOF.
 38. 50"x22" OPPOSED BLADE DAMPER, MINIMUM OUTSIDE AIR 1200 CFM, MAXIMUM OUTSIDE AIR 5200 CFM.
 39. SEE SHEET M6-1 FOR UNIT HEATER PIPING DIAGRAM.
 40. 78"x30" RETURN AIR OPENING TO AHU-7.



UNIT M PENTHOUSE # 4 SECTION A-A
SCALE: 1/4" = 1'-0"

UNIT "M" PENTHOUSE # 4 MECHANICAL PLAN
SCALE: 1/4" = 1'-0"

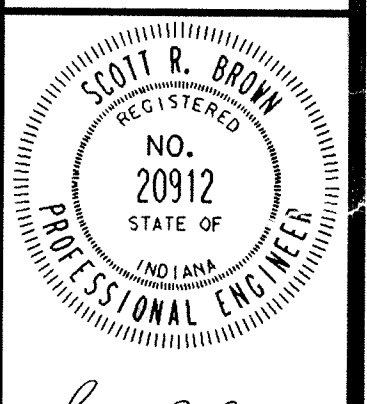


KEY PLAN
NOT TO SCALE

LOG IN SHEET
LOG ROOM N
LOG ROOM 2

ADDITION TO and RENOVATION OF
LAWRENCE CENTRAL HIGH SCHOOL
 for the METROPOLITAN SCHOOL DISTRICT of LAWRENCE TOWNSHIP
 MARION COUNTY, INDIANA

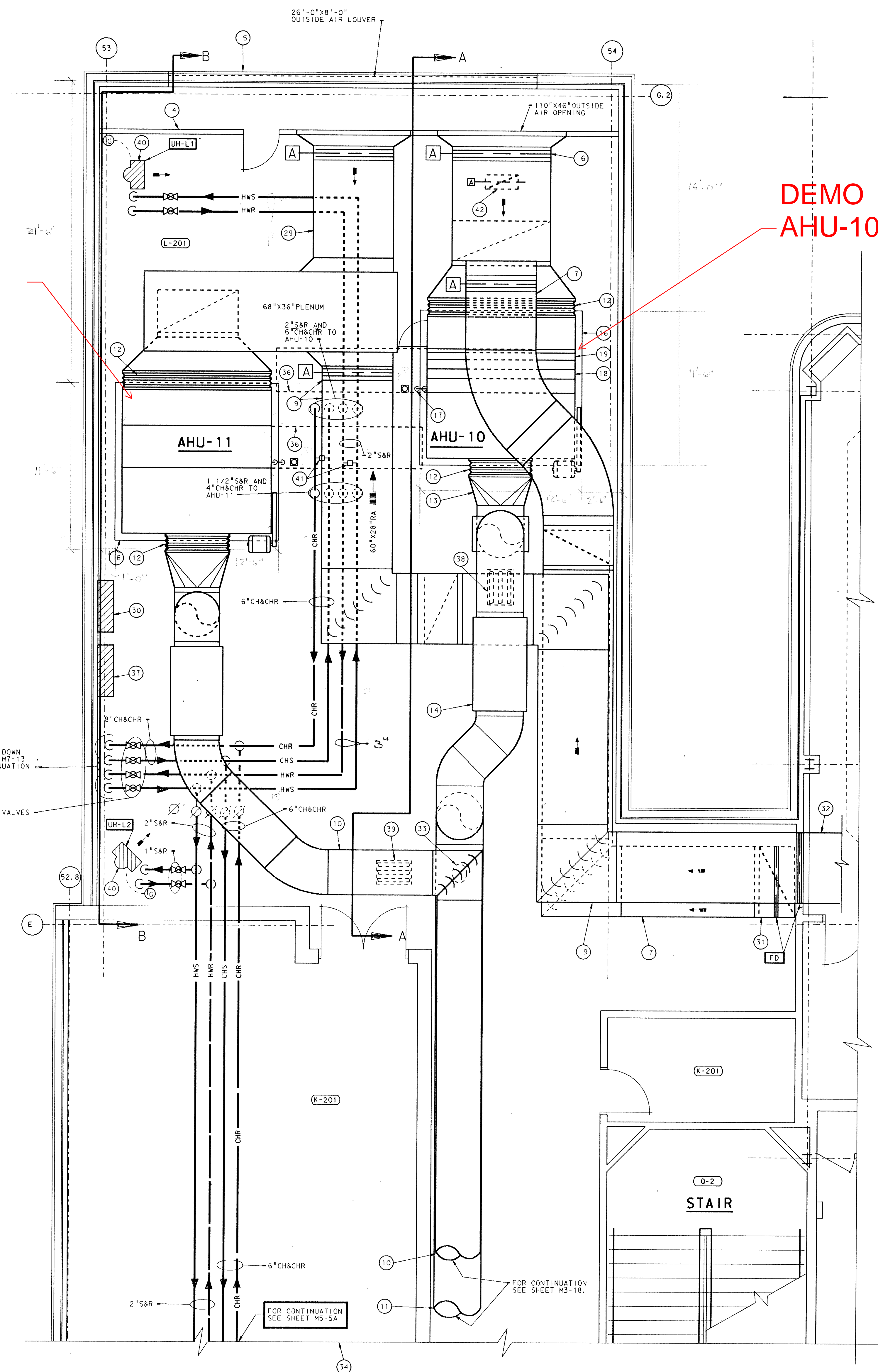
EVERETT L. EDGEMOND Company
 Architects & Engineers
 950 NORTH MERIDIAN STREET
 INDIANAPOLIS, INDIANA 46204
 (317) 237-7000



PROJECT
871-110
DATE
DEC. 18, 1989
REVISED

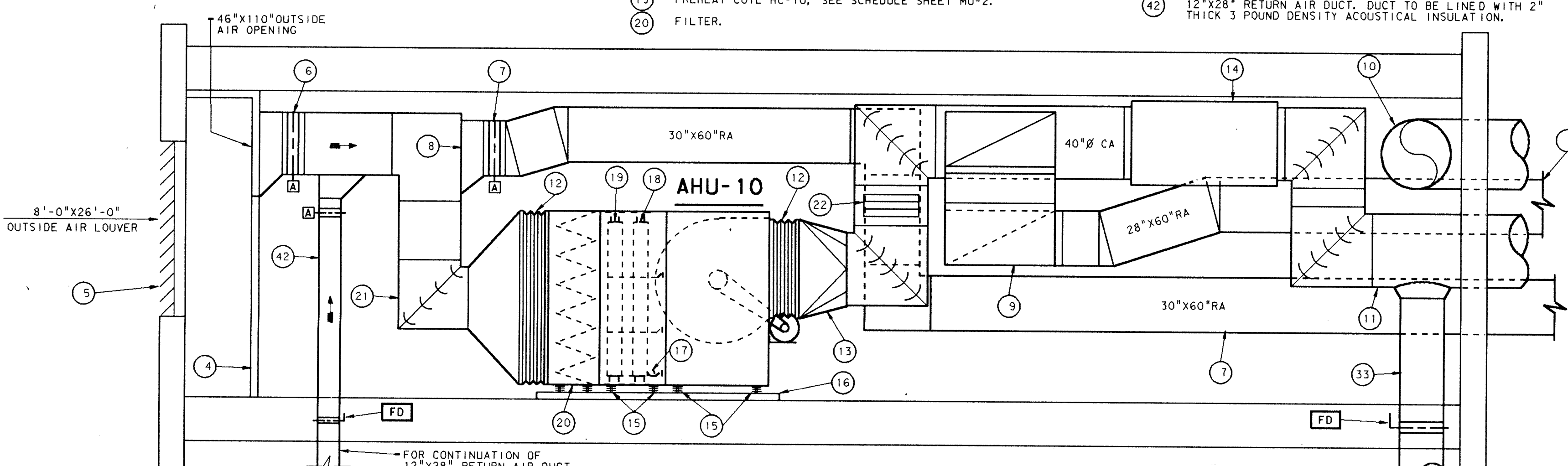
DEMO
AHU-11

DEMO
AHU-10

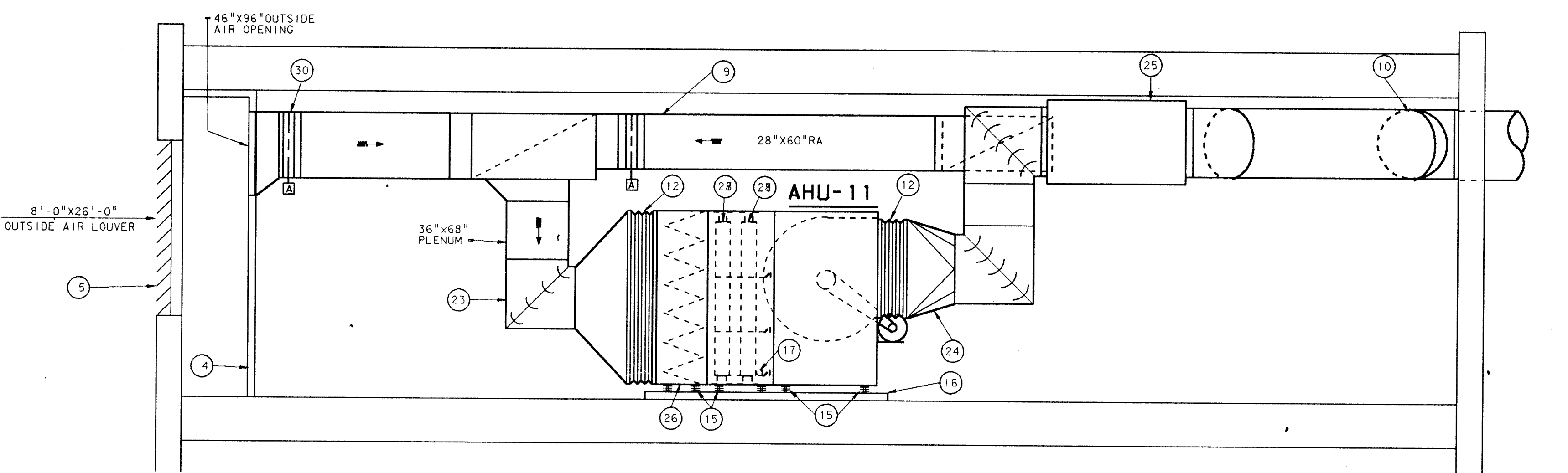


PLAN NOTES:

- 1 SEE SHEET M0-1 THRU M0-5 FOR GENERAL NOTES, LEGEND AND SCHEDULES.
- 2 AHU-10 SERVES UNITS "P" & "O" FIRST FLOORS.
- 3 AHU-11 SERVES UNITS "P" & "O" SECOND FLOORS.
- 4 4 INCH THICK DOUBLE WALL INSULATED PANEL PROVIDED AND INSTALLED BY SHEET METAL CONTRACTOR. PROVIDE 30" WIDE ACCESS DOOR.
- 5 26'-0"x8'-0" WEATHER PROOF LOUVER PROVIDED AND INSTALLED BY ROOFING CONTRACTOR.
- 6 84"x34" OUTSIDE AIR DUCT WITH AUTOMATIC DAMPER, DUCT TO BE LINED WITH 2 INCH THICK 3 POUND DENSITY ACOUSTICAL INSULATION.
- 7 60"x30" RETURN AIR DUCT TO AHU-10 WITH AUTOMATIC DAMPER. LINE DUCT WITH 2 INCH THICK 3 POUND DENSITY ACOUSTICAL INSULATION.
- 8 40"x20" RETURN AIR OPENING INTO 34"x84" RETURN AIR DUCT.
- 9 60"x28" RETURN AIR DUCT TO AHU-11 DUCT TO BE LINED AS SPECIFIED IN NOTE 7. PROVIDE 60"x28" AUTOMATIC DAMPER.
- 10 40" C.A. DUCT FROM AHU-11.
- 11 40" C.A. DUCT FROM AHU-10.
- 12 FLEXIBLE CONNECTION.
- 13 53 7/8"x54 3/8" TRANSITION DUCT TO 40" COLD AIR MEDIUM PRESSURE SUPPLY DUCT.
- 14 DUCT ATTENUATOR AS MANUFACTURED BY "RINK", MODEL AX40.80-B.
- 15 SPRING VIBRATION ISOLATORS. PROVIDE FOR EACH AIR HANDLING UNIT SECTION.
- 16 4 INCH HIGH HOUSEKEEPING PAD, PROVIDED AND INSTALLED BY GENERAL CONTRACTOR. SIZE AND FINAL LOCATION TO BE COORDINATED WITH MECHANICAL CONTRACTOR.
- 17 1 1/2" CONDENSATE DRAIN FROM COOLING COIL DRAIN PAN, PROVIDE DEEP SEAL TRAP AND THREAD FOR HOSE CONNECTION.
- 18 COOLING COIL CC-10, SEE SCHEDULE SHEET M0-2.
- 19 PREHEAT COIL HC-10, SEE SCHEDULE SHEET M0-2.
- 20 FILTER.
- 21 34"x84" MITERED 90° ELBOW WITH TURNING VANES.
- 22 30"x12" DUMP DAMPER, INSTALL ON EACH SIDE OF 40" CA SUPPLY DUCT.
- 23 36"x68" MITERED 90° ELBOW WITH TURNING VANES.
- 24 53 7/8"x54 3/8" TRANSITION DUCT TO 38" COLD AIR MEDIUM PRESSURE SUPPLY DUCT.
- 25 DUCT ATTENUATOR AS MANUFACTURED BY "RINK" MODEL AX38.76-B. FILTER.
- 26 COOLING COIL CC-11, SEE SCHEDULE SHEET M0-2.
- 27 PREHEAT COIL HC-11, SEE SCHEDULE SHEET M0-2.
- 28 68"x36" OUTSIDE AIR DUCT WITH AUTOMATIC DAMPER, DUCT TO BE LINED WITH 2 INCH THICK 3 POUND DENSITY ACOUSTICAL INSULATION.
- 29 TEMPERATURE CONTROL PANEL BY TEMPERATURE CONTROL CONTRACTOR.
- 30 SEE SHEET M3-19 FOR CONTINUATION.
- 31 SEE SHEET M3-20 FOR CONTINUATION.
- 32 12"x21" CA DUCT DOWN THRU FLOOR TO CORR IDOR L-124. SEE SHEET M3-13 FOR CONTINUATION.
- 33 SEE SHEET M5-5A FOR CONTINUATION OF PENTHOUSE.
- 34 SEE SHEET M6-1 FOR HEATING AND COOLING COIL PIPING DIAGRAM. COIL PULL SPACE.
- 35 AHU-110 TEMPERATURE CONTROL PANEL BY TEMPERATURE CONTROL CONTRACTOR.
- 36 30"x22" DUMP DAMPER, INSTALL AT BOTTOM OF 40" CA DUCT.
- 37 30"x20" DUMP DAMPER, INSTALL AT BOTTOM OF 38" CA DUCT.
- 38 SEE SHEET M6-1 FOR UNIT HEATER PIPING DIAGRAM.
- 39 END OF LOOP BYPASS, SEE DETAIL PIPING DIAGRAM SHEET M6-4.
- 40 12"x28" RETURN AIR DUCT, DUCT TO BE LINED WITH 2" THICK 3 POUND DENSITY ACOUSTICAL INSULATION.



UNIT "L" PENTHOUSE #5 SECTION A-A
SCALE: 1/4" = 1'-0"

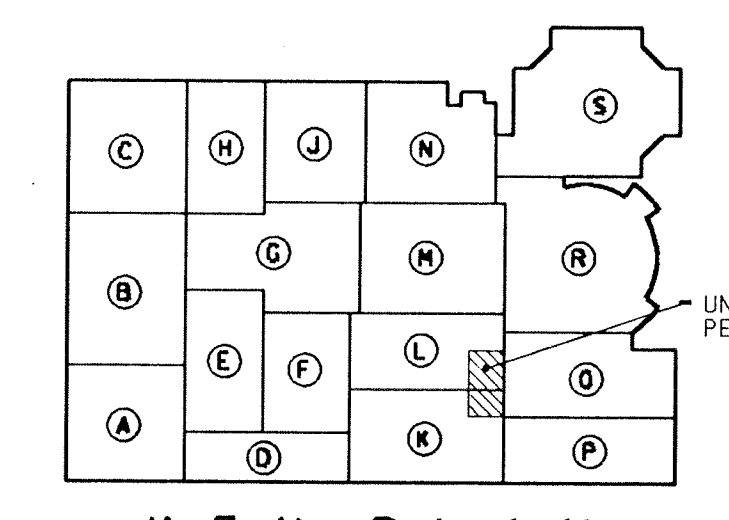
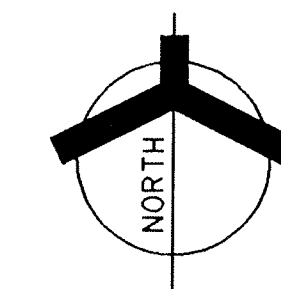
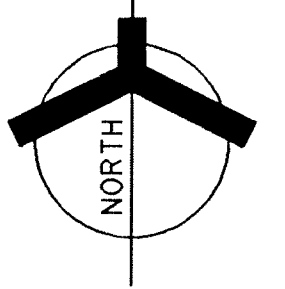


UNIT "L" PENTHOUSE #5 SECTION B-B
SCALE: 1/4" = 1'-0"

AHU 10-11 & 12
3 HEATING COILS
1- 1 1/4 S - 1 1/2 R
2- 2 1/2 S - 1 1/2 R
3 COOLING COILS
3- 2 1/2 S & R

UNIT "L" MECHANICAL PENTHOUSE #5
PLAN SERVES UNITS "P, O, & L"

SCALE: 1/4" = 1'-0"

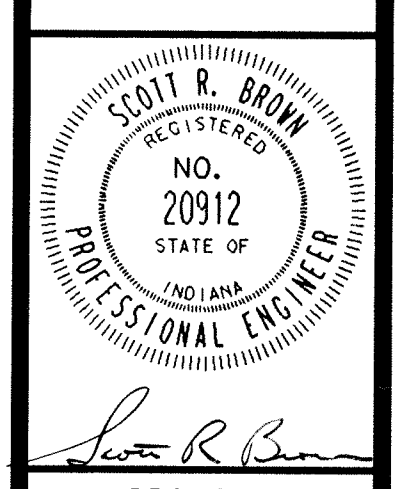


KEY PLAN
NOT TO SCALE

ADDITION TO AND RENOVATION OF
LAWRENCE CENTRAL HIGH SCHOOL
 for the METROPOLITAN SCHOOL DISTRICT of LAWRENCE TOWNSHIP
 MARION COUNTY, INDIANA

EVERETT I. Company
EBROWN
 Architects & Engineers

950 NORTH MERIDIAN STREET
 AND JANNAPOLIS, INDIANA 46204
 (317) 231-1800



PROJECT
871-110

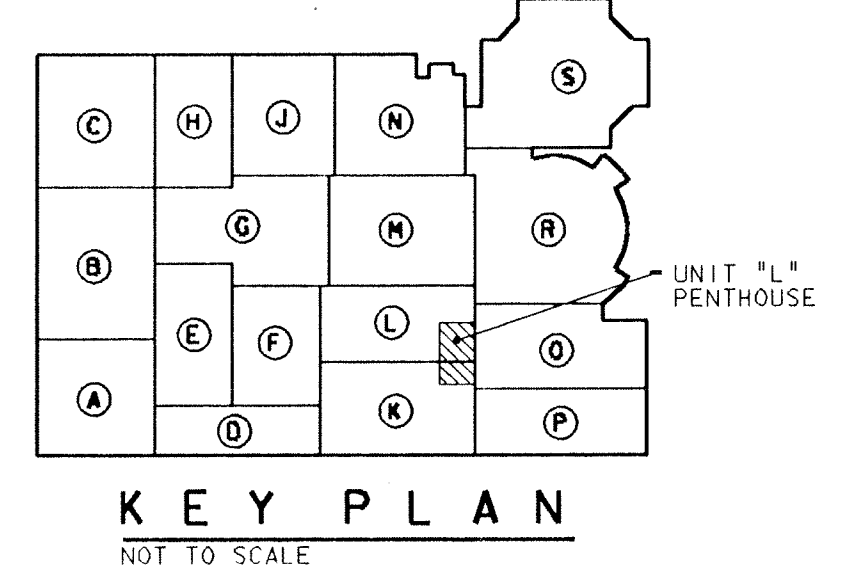
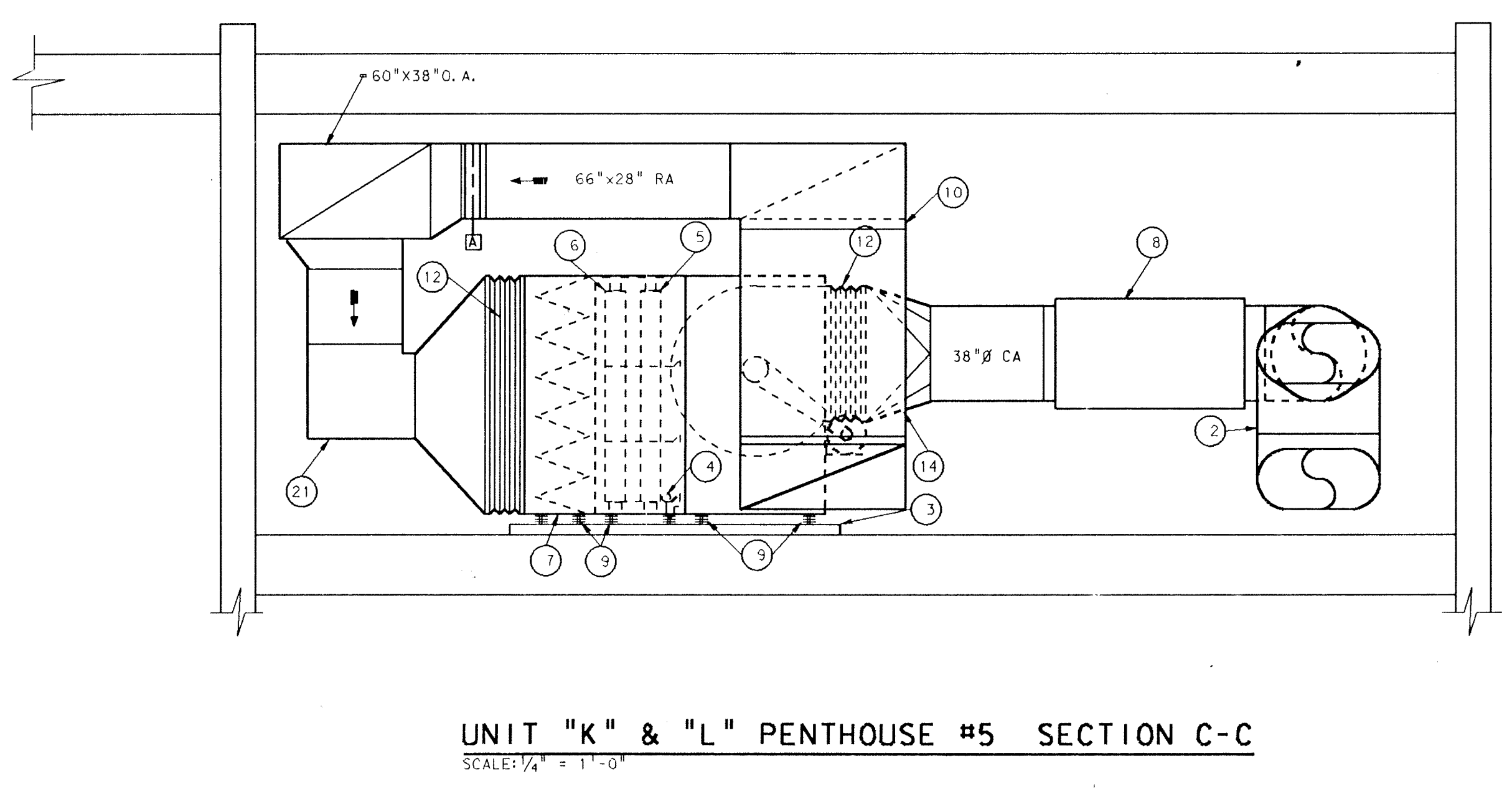
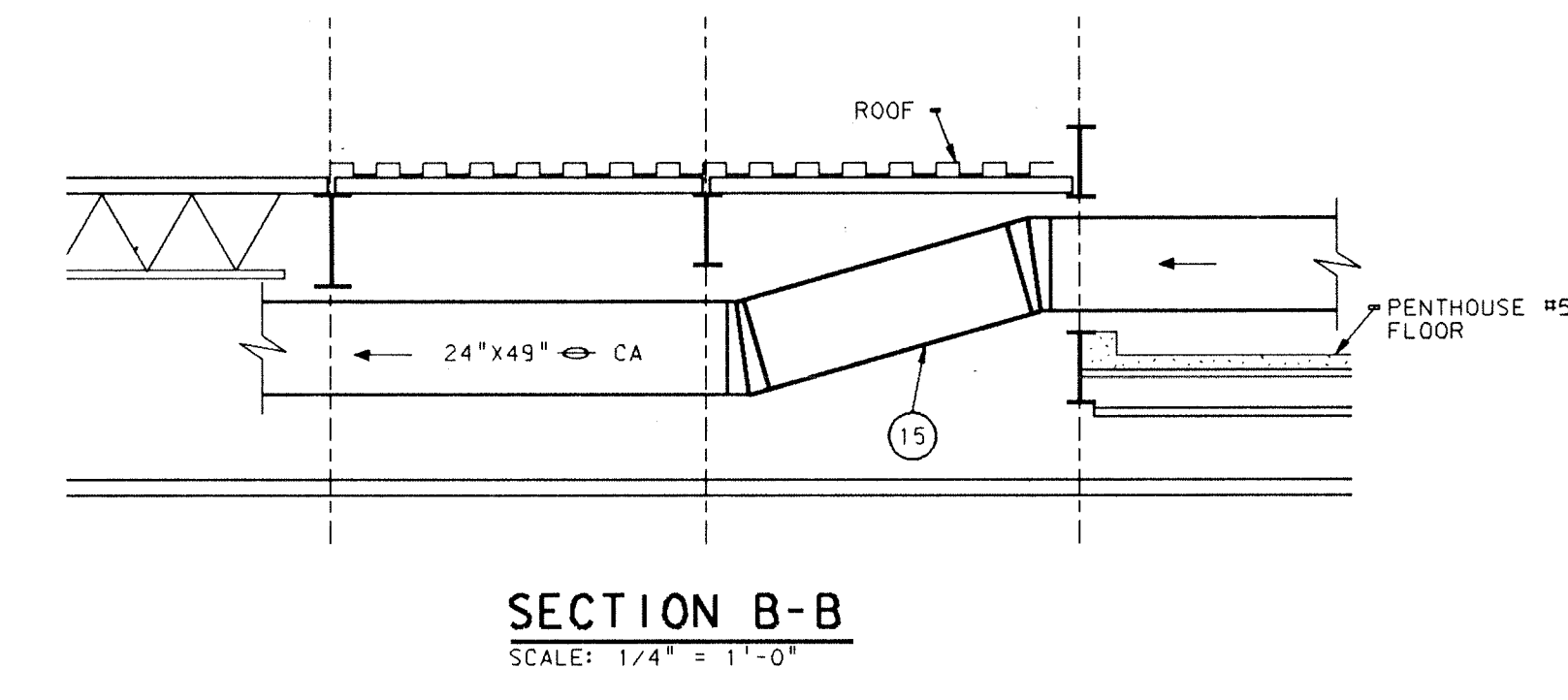
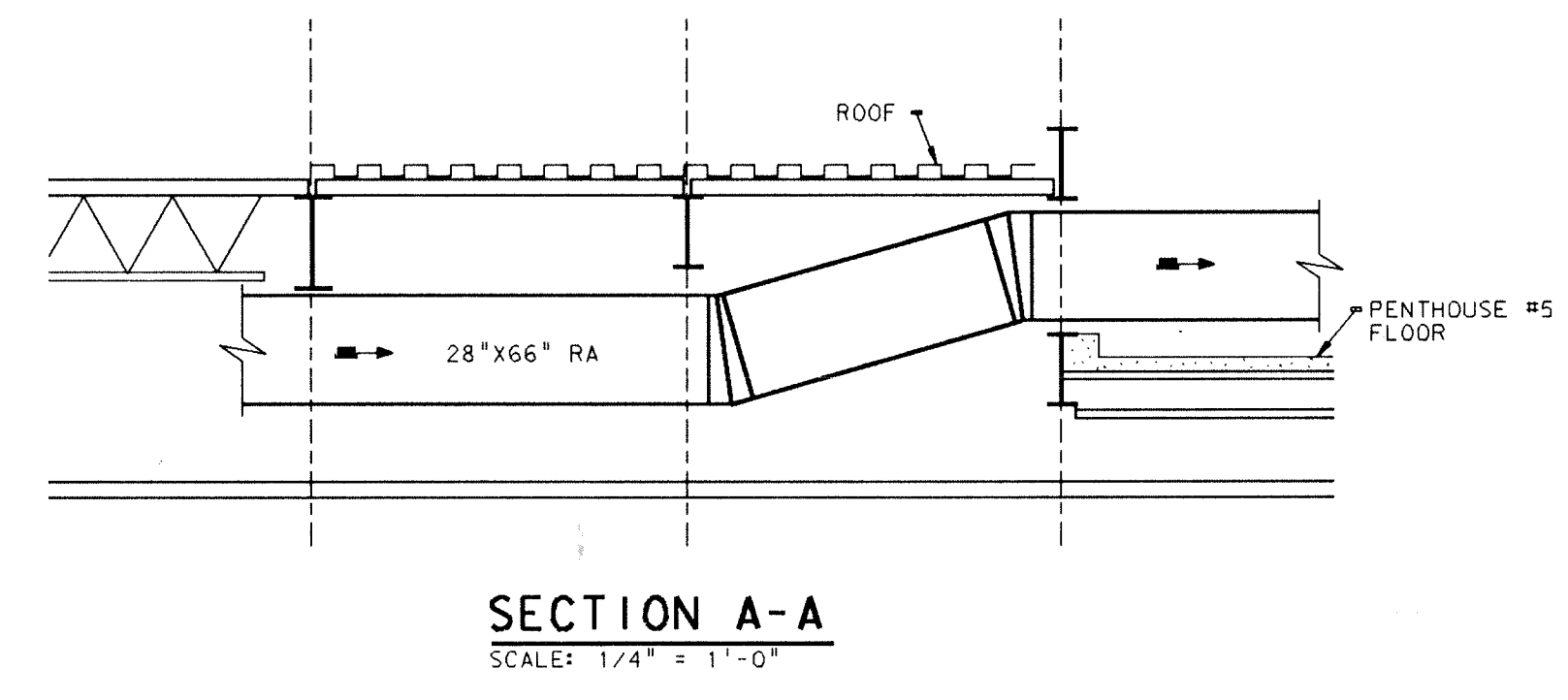
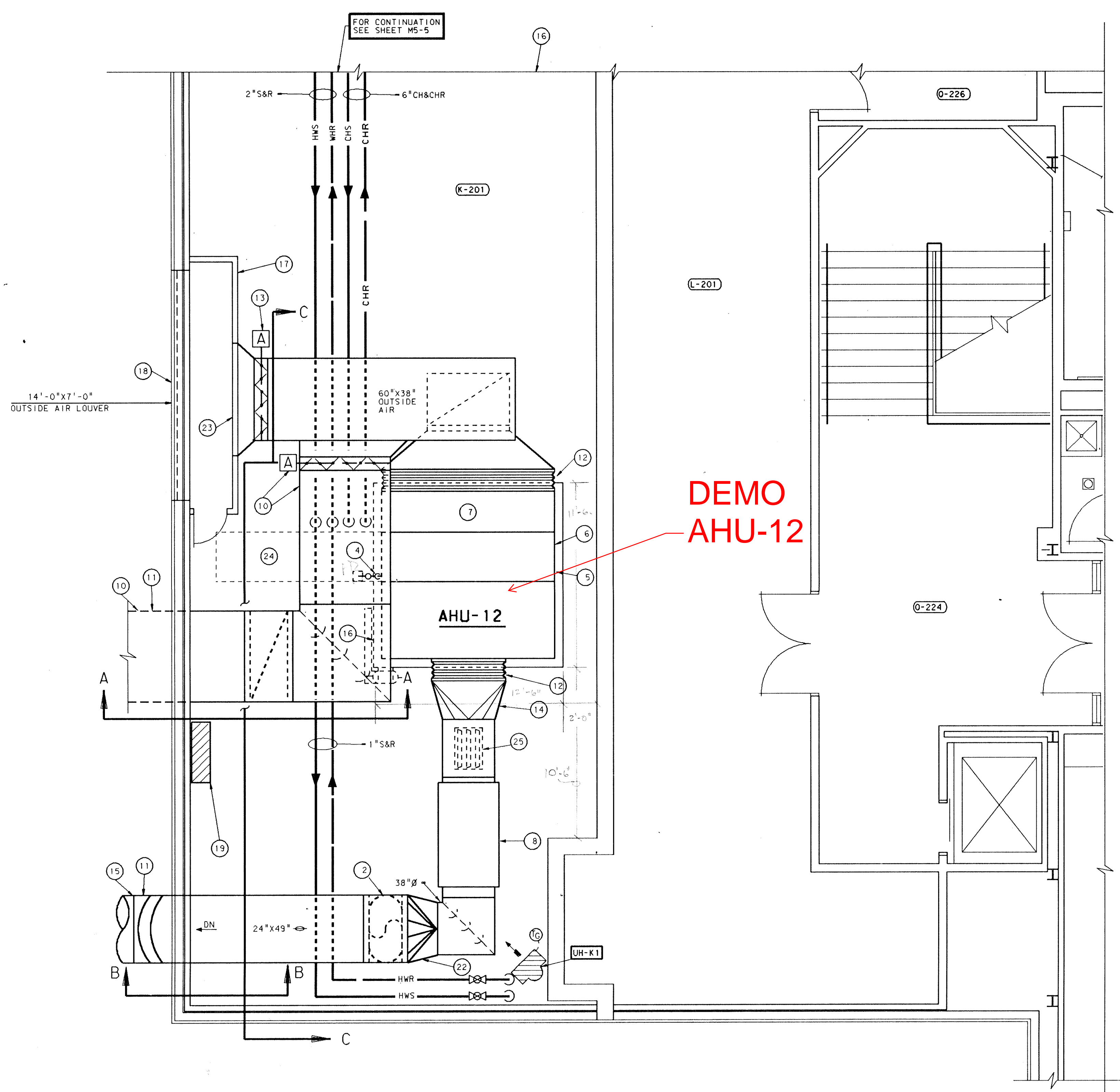
DATE
DEC. 18, 1989

REVISED

NO. M5-5
OF 7

PLOT NO. 2
 DATE: FEB 15 1990
 DRAWN BY: J. L. BROWN
 CHECKED BY: J. L. BROWN
 SCALE: 1/4" = 1'-0"

- PLAN NOTES:**
- 1 SEE SHEET M0-1 THRU M0-5 FOR GENERAL NOTES, LEGEND, AND SCHEDULES.
 - 2 MITER 24"x49" C.A. DUCT DOWN SO BOTTOM OF DUCT IS 10 INCHES ABOVE FINISHED PENTHOUSE FLOOR.
 - 3 4 INCH HIGH HOUSEKEEPING PAD, PROVIDED AND INSTALLED BY GENERAL CONTRACTOR. SIZE AND FINAL LOCATION TO BE COORDINATED WITH MECHANICAL CONTRACTOR.
 - 4 1/2" CONDENSATE DRAIN FROM COOLING COIL DRAIN PAN PROVIDE DEEP SEAL TRAP AND THREAD FOR HOE CONNECTION.
 - 5 COOLING COIL CC-12, SEE SCHEDULE SHEET M0-2.
 - 6 PRE-HEAT COIL HC-12, SEE SCHEDULE SHEET M0-2.
 - 7 FILTER SECTION.
 - 8 DUCT ATTENUATOR AS MANUFACTURED BY "RINK" MODEL AX38.T6B.
 - 9 SPRING VIBRATION ISOLATORS. PROVIDE FOR EACH AIR HANDLING UNIT SECTION.
 - 10 66"x28" RETURN AIR DUCT WITH AUTOMATIC OPPOSED BLADE DAMPER, DUCT TO BE LINED WITH 2" THICK 3 POUND DENSITY ACOUSTICAL INSULATION.
 - 11 FOR CONTINUATION SEE SHEET M3-12.
 - 12 FLEXIBLE CONNECTION.
 - 13 60"x38" OPPOSED BLADE AUTOMATIC DAMPERS.
 - 14 53 7/8"x43 1/2" TRANSITION DUCT TO 38"Ø COLD AIR MEDIUM PRESSURE SUPPLY DUCT.
 - 15 OFFSET 24"x49" C.A. DUCT UP INTO PENTHOUSE #5.
 - 16 SEE SHEET M5-5 FOR CONTINUATION OF PENTHOUSE.
 - 17 4" THICK DOUBLE WALL INSULATED PANEL PROVIDED AND INSTALLED BY SHEET METAL CONTRACTOR. PROVIDE 24" WIDE ACCESS DOOR.
 - 18 OUTSIDE WEATHER PROOF AIR LOUVER PROVIDED AND INSTALL BY ROOFING CONTRACTOR.
 - 19 AHU-12 TEMPERATURE CONTROL PANEL BY TEMPERATURE CONTROL CONTRACTOR.
 - 20 SEE SHEET M6-1 FOR HEATING AND COOLING COIL PIPING DIAGRAM.
 - 21 38"x60" MITERED 90° ELBOW WITHOUT TURNING VANES.
 - 22 TRANSITION 38" C.A. DUCT TO 24"x49" FLAT OVAL.
 - 23 82"x38" OUTSIDE AIR DUCT OPENING.
 - 24 COIL PULL SPACE.
 - 25 30"x20" DUMP DAMPER, INSTALL AT BOTTOM OF 38"Ø CA DUCT.

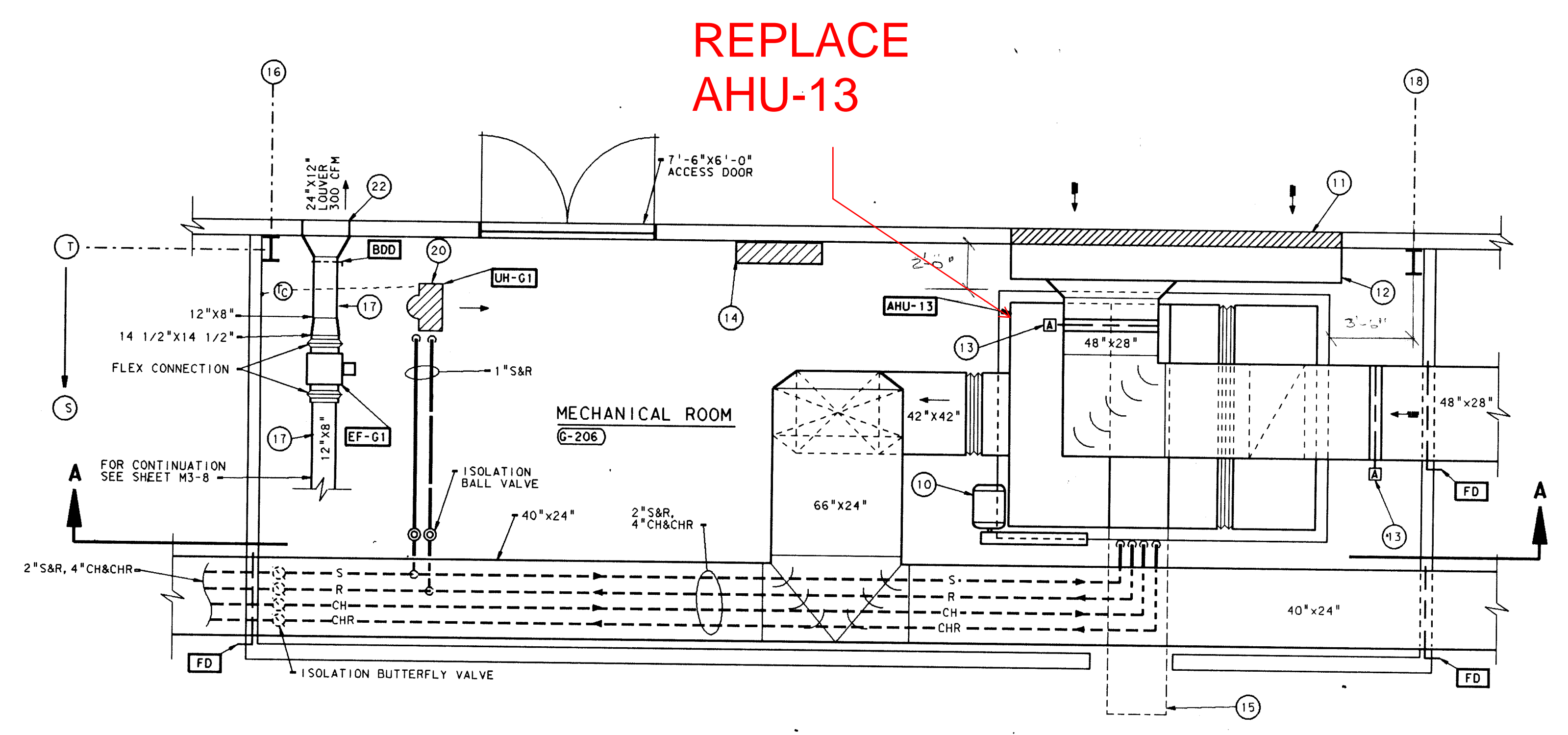


UNITS "K" & "L" MECHANICAL PENTHOUSE #5 PLAN SERVES UNIT "L"
 SCALE: 1/4" = 1'-0"

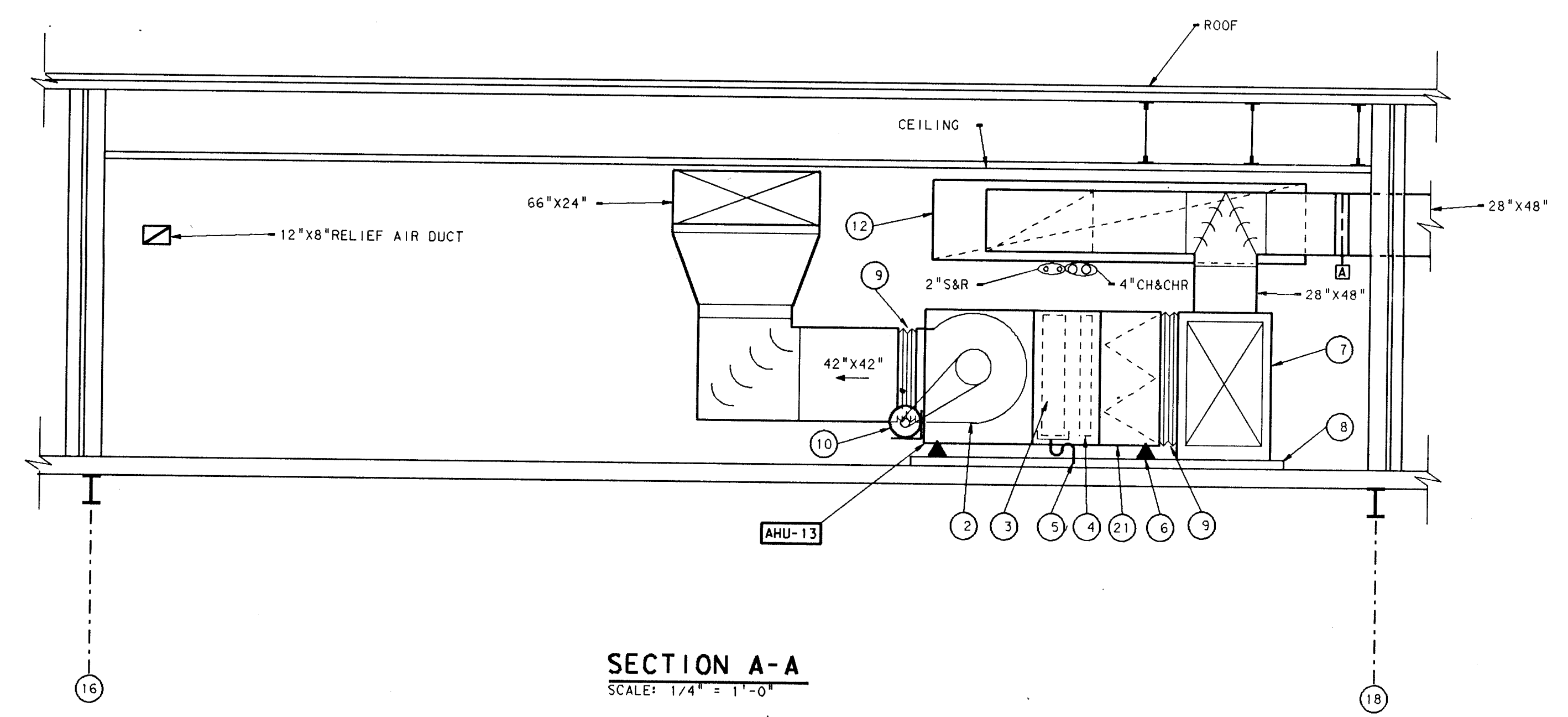
Plot Date: 12/18/89
 Drawn By: J. B. BROWN
 Checked By: J. B. BROWN
 Title: MECHANICAL PENTHOUSE #5 PLAN SERVES UNIT "L"
 Date: 12/18/89
 Scale: 1/4" = 1'-0"

- PLAN NOTES:**
- ① SEE SHEET M0-1 THRU M0-5 FOR GENERAL NOTES, LEGEND AND SCHEDULES.
 - ② FAN SECTION
 - ③ COOLING COIL CC-13, SEE SCHEDULE SHEET M0-2.
 - ④ HEATING COIL HC-13, SEE SCHEDULE SHEET M0-2.
 - ⑤ 2" DEEP SEAL CONDENSATE DRAIN, TERMINATE OVER NEAREST FLOOR DRAIN.
 - ⑥ VIBRATION ISOLATORS (TYPICAL)
 - ⑦ RETURN AIR PLENUM WITH ACCESS DOOR BY SHEET METAL CONTRACTOR.
 - ⑧ 4" CONCRETE PAD BY GENERAL CONTRACTOR.
 - ⑨ FLEXIBLE CONNECTION.
 - ⑩ MOTOR
 - ⑪ 14'-0"X3'-0" (W) WEATHER PROOF OUTDOOR AIR INTAKE LOUVER TO BE PROVIDED AND INSTALLED BY THE ROOFING CONTRACTOR.
 - ⑫ 14'-0" (L)X3'-0" (H)X1'-6" (W) 4 INCH THICK DOUBLE WALLED INSULATED OUTDOOR AIR PLENUM, PROVIDED, AND INSTALLED BY SHEET METAL CONTRACTOR.
 - ⑬ AUTOMATIC DAMPER BY TEMPERATURE CONTROL CONTRACTOR.
 - ⑭ AHU-13 TEMPERATURE CONTROL PANEL BY TEMPERATURE CONTROL CONTRACTOR.
 - ⑮ COIL REMOVAL SPACE.
 - ⑯ 24"X12" WEATHER PROOF RELIEF AIR LOUVER TO BE PROVIDED AND INSTALLED BY ROOFING CONTRACTOR.
 - ⑰ LINE 12X8 RELIEF AIR DUCT WITH 1" THICK, 1 1/2 POUND DENSITY ACOUSTICAL INSULATION.
 - ⑱ PROVIDE HANGER RODS, ISOLATORS AND ANGLES TO SUSPEND EF-G1 FROM STRUCTURE.
 - ⑲ SEE SHEET M6-1 FOR PREHEAT AND COOLING COIL TYPICAL PIPING DIAGRAM.
 - ⑳ SEE SHEET M6-1 FOR UNIT HEATER PIPING DIAGRAM.
 - ㉑ FILTER SECTION.
 - ㉒ 24"X12" RELIEF AIR LOUVER TO BE PROVIDED AND INSTALLED BY ROOFING CONTRACTOR.

60. CONTRACT #3: Sheet #M5-6:
 A. See attached Piping revision to Sheet M5-6 this Addendum.

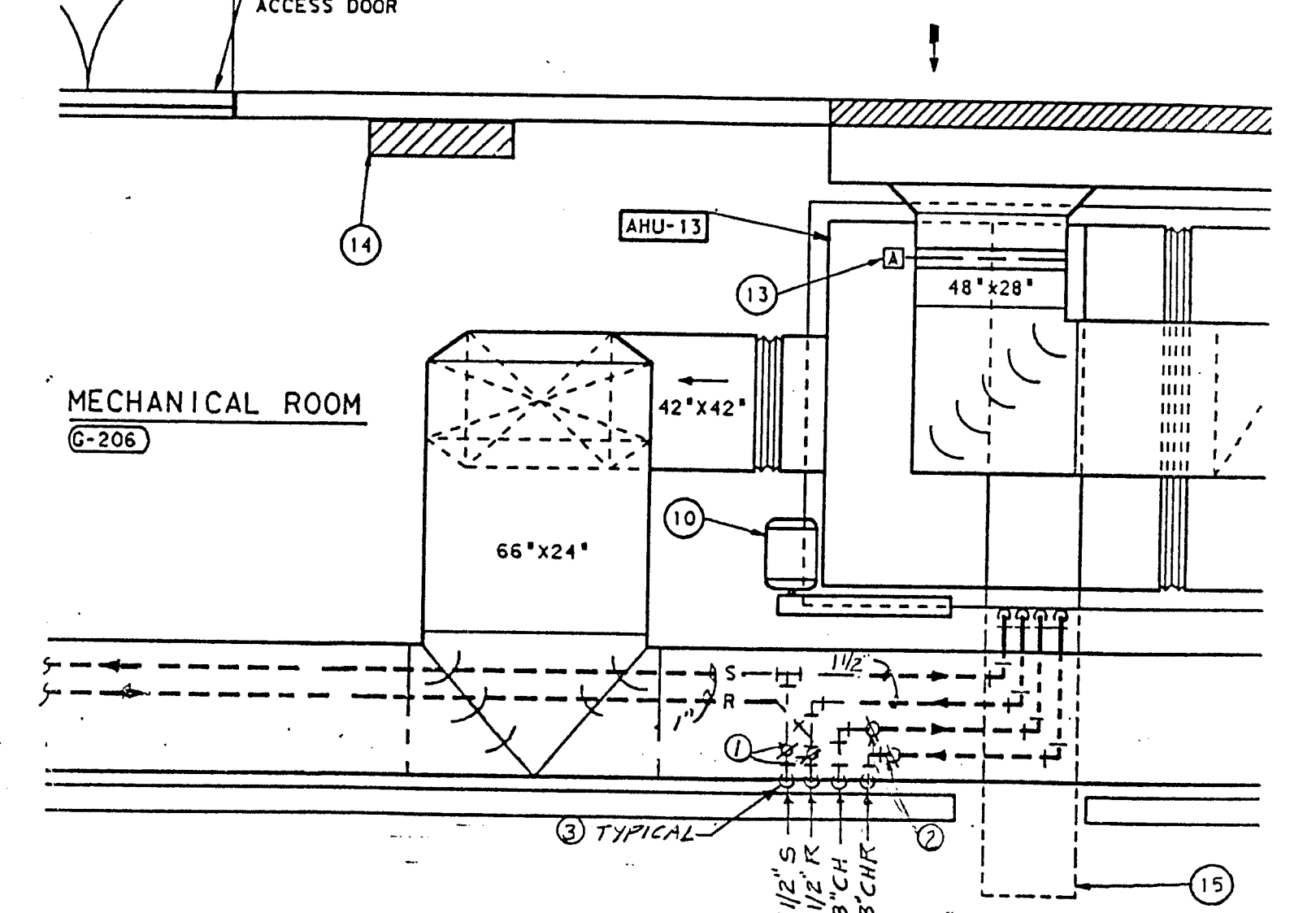
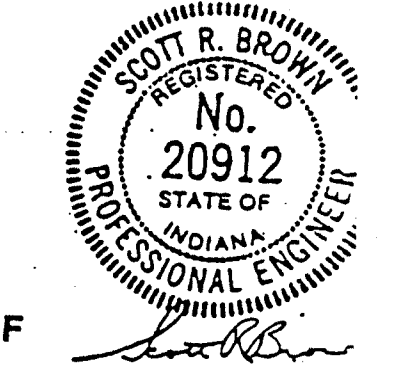


UNIT "G" PENTHOUSE #6 FLOOR PLAN
 SCALE: 1/4" = 1'-0"



SECTION A-A
 SCALE: 1/4" = 1'-0"

871-110 REVISION TO SHEET M5-6
ADDENDUM #3
 ADDITION TO AND RENOVATION OF
LAWRENCE CENTRAL HIGH SCHOOL



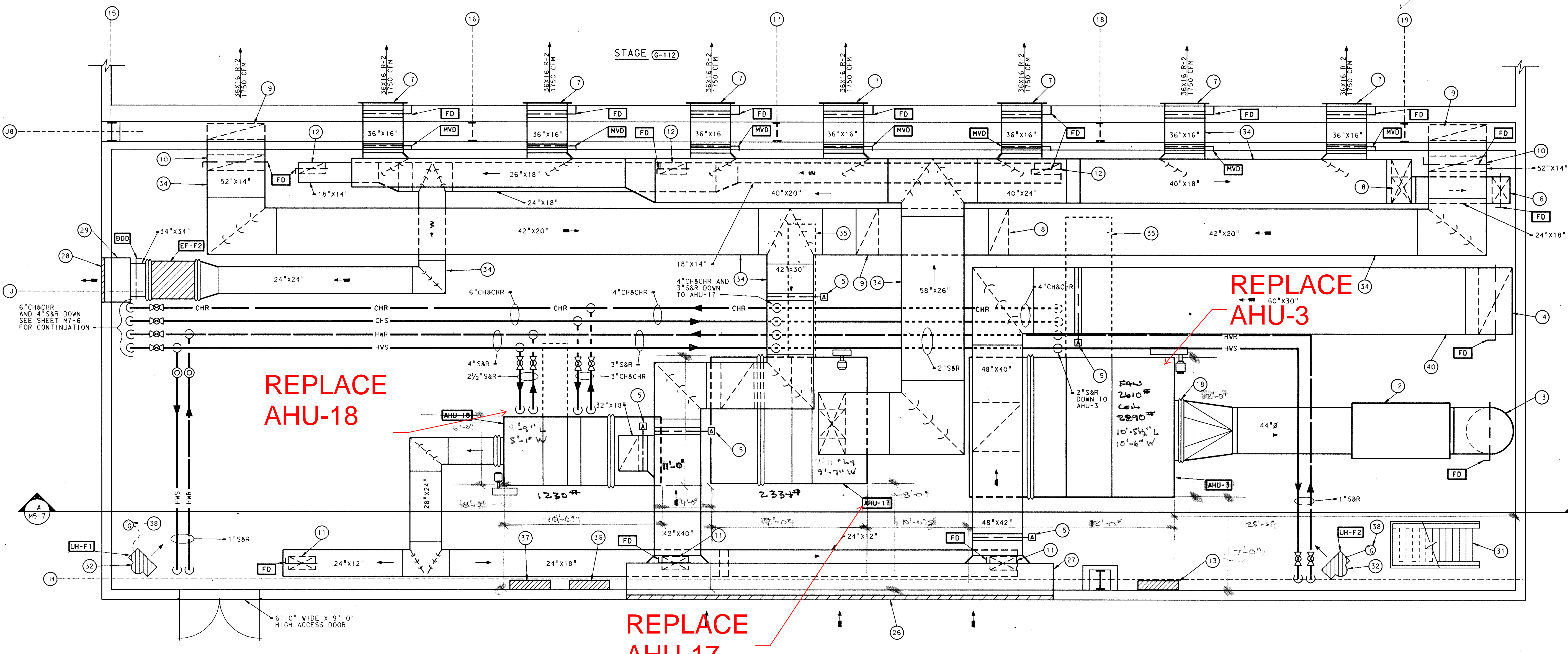
UNIT "G" PENTHOUSE #6 FLOOR PLAN
 SCALE: 1/4" = 1'-0"

- NOTES:**
- ① BALL ISOLATION VALVE.
 - ② BUTTERFLY ISOLATION VALVE.
 - ③ DOWN TO 2" CH. 2" CH. G.S. AND G'R LOCATED IN CORRIDOR G-101 SHEET M7-11.

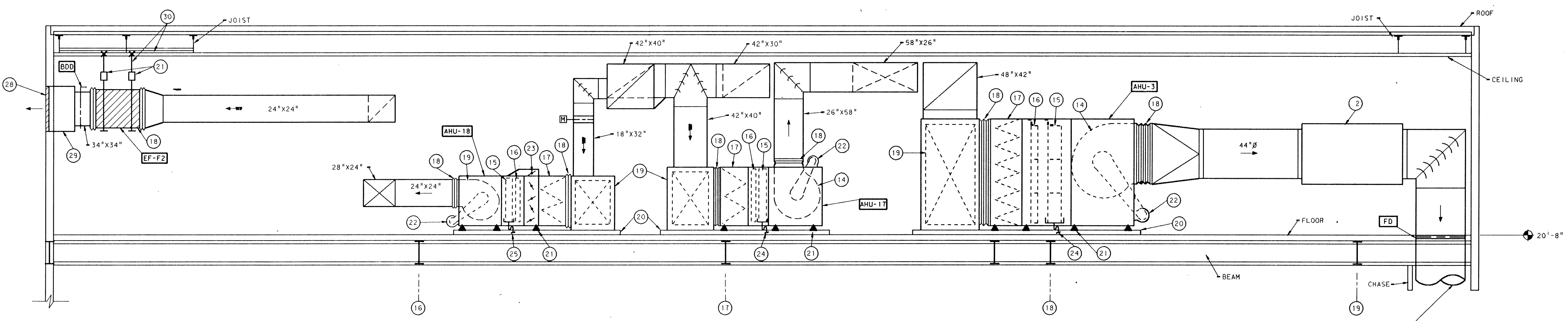
Page #D-16

Plot Name: 1...
 Date: 12/18/89
 Level: 1155, 1155, 1155

- PLAN NOTES:**
- 1 SEE SHEET M0-1 THRU M0-5 FOR GENERAL NOTES, LEGEND AND SCHEDULES.
 - 2 DUCT SOUND ATTENUATOR 44"Ø X 88" (L), UNIT SHALL BE BY RINK MODEL AX44,88-B OR APPROVED EQUAL.
 - 3 44"Ø DOWN SEE SHEET M3-6 FOR CONTINUATION.
 - 4 60"X30" RETURN AIR DUCT FROM BELOW.
 - 5 AUTOMATIC OPPOSED BLADE DAMPER BY TEMPERATURE CONTROL CONTRACTOR.
 - 6 24"X18" SA DOWN.
 - 7 36"X16" SA 1750 CFM EACH, BOTTOM AT ELEVATION 23.00'.
 - 8 40"X18" SA MITERED DOWN, TRANSITION TO A 24"X18" SUPPLY AIR.
 - 9 52"X14" IN CHASE FROM BELOW.
 - 10 DUCT DOWN THRU EQUIPMENT ROOM FLOOR, OFFSET TO CHASE IN CEILING SPACE BELOW.
 - 11 24"X12" DOWN TO SCENE SHOP CEILING.
 - 12 26"X14" FROM SCENE SHOP CEILING.
 - 13 AHU-3 TEMPERATURE CONTROL PANEL BY TEMPERATURE CONTROL CONTRACTOR.
 - 14 FAN SECTION.
 - 15 COOLING COIL, SEE SHEET M0-2 FOR SCHEDULE.
 - 16 PREHEAT COIL, SEE SHEET M0-2 FOR SCHEDULE.
 - 17 FILTER SECTION.
 - 18 FLEXIBLE CONNECTION.
 - 19 RETURN AIR PLENUM WITH ACCESS DOOR BY SHEET METAL CONTRACTOR.
 - 20 4" CONCRETE PAD BY GENERAL CONTRACTOR.
 - 21 VIBRATION ISOLATORS (TYPICAL).
 - 22 MOTOR.
 - 23 FACE AND BYPASS DAMPER.
 - 24 2" DEEP SEAL CONDENSATE TRAP TERMINATE OVER FLOOR DRAIN.
 - 25 1/2" DEEP SEAL CONDENSATE TRAP TERMINATE OVER FLOOR DRAIN.
 - 26 32"-Ø (L) X 4'-Ø (H) OUTDOOR AIR INTAKE LOUVER TO BE PROVIDED AND INSTALLED BY THE ROOFING CONTRACTOR.
 - 27 32"-Ø (L) X 4'-Ø (H) INSULATED OUTDOOR AIR INTAKE PLENUM BY SHEET METAL CONTRACTOR.
 - 28 3'-6" (L) X 3'-6" (H) EXHAUST AIR LOUVER PROVIDED AND INSTALLED BY THE ROOFING CONTRACTOR.
 - 29 3'-6" (L) X 3'-6" (H) X 1'-6" (W) INSULATED EXHAUST AIR PLENUM.
 - 30 PROVIDE HANGER ROD ISOLATORS AND ANGLES TO SUSPEND FAN FROM STRUCTURE.
 - 31 STAIR TO PENTHOUSE SEE SHEET A2-7 FOR CONTINUATION.
 - 32 SEE SHEET M6-1 FOR TYPICAL UNIT HEATER PIPING DIAGRAM.
 - 33 SEE SHEET M6-1 FOR TYPICAL AIR HANDLING UNIT HEATING AND COOLING COIL PIPING DETAIL.
 - 34 SUPPLY, RETURN AND EXHAUST LOW VELOCITY AIR DUCT SHALL BE ACOUSTICALLY LINED WITH 1" THICK, 1 1/2 POUND DENSITY INSULATION.
 - 35 COIL PULL SPACE.
 - 36 AHU-17 TEMPERATURE CONTROL PANEL BY TEMPERATURE CONTROL CONTRACTOR.
 - 37 AHU-18 TEMPERATURE CONTROL PANEL BY TEMPERATURE CONTROL CONTRACTOR.
 - 38 THERMOSTAT AT 8'-0" ABOVE FINISHED FLOOR.
 - 39 ALL DUCTS PENETRATING THE PENTHOUSE FLOOR REQUIRE FIRE DAMPERS.
 - 40 RETURN AIR DUCT TO AHU-3 SHALL BE LINED WITH 2" THICK, 3 POUND DENSITY ACOUSTICAL INSULATION.



UNIT "F" PENTHOUSE #7 FLOOR PLAN
SCALE: 1/4" = 1'-0"



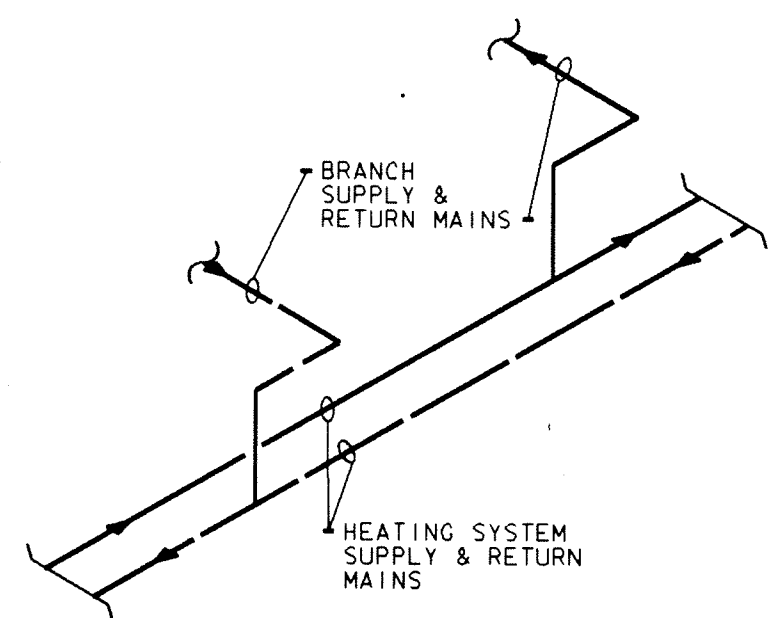
PENTHOUSE #7 SECTION A - A
SCALE: 1/4" = 1'-0"

ADDITION TO and RENOVATION OF LAWRENCE CENTRAL HIGH SCHOOL
 for the METROPOLITAN SCHOOL DISTRICT of LAWRENCE TOWNSHIP
 MARION COUNTY, INDIANA

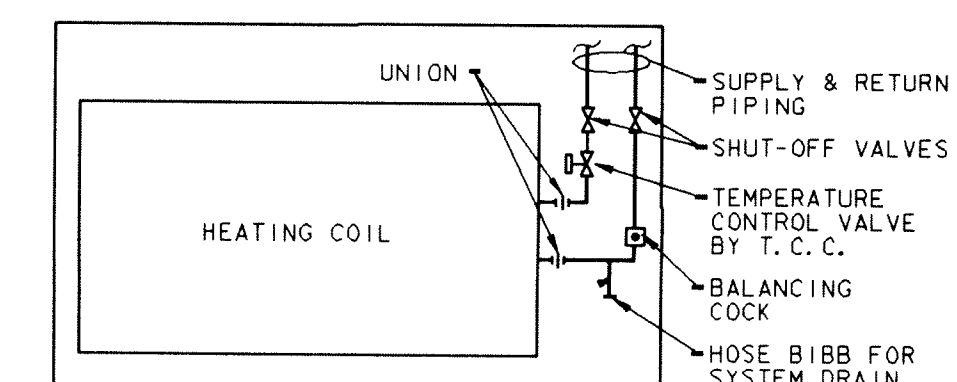
EVERETT EDGEMAN Company
 Architects & Engineers
 950 NORTH MERIDIAN STREET
 INDIANAPOLIS, INDIANA 46204
 (317) 237-7000

REGISTERED PROFESSIONAL ENGINEER
 NO. 20912
 STATE OF INDIANA
 SCOTT R. BOWEN

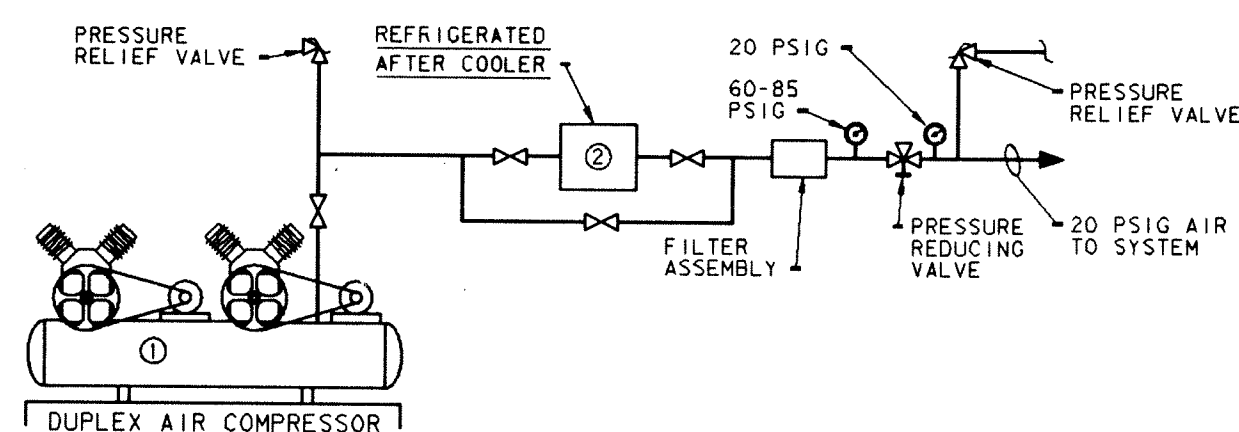
PROJECT 871-110
 DATE DEC. 18, 1989
 REVISED



TYPICAL SWING JOINT AT BRANCH TAKE OFF FROM HEATING MAIN
NO SCALE

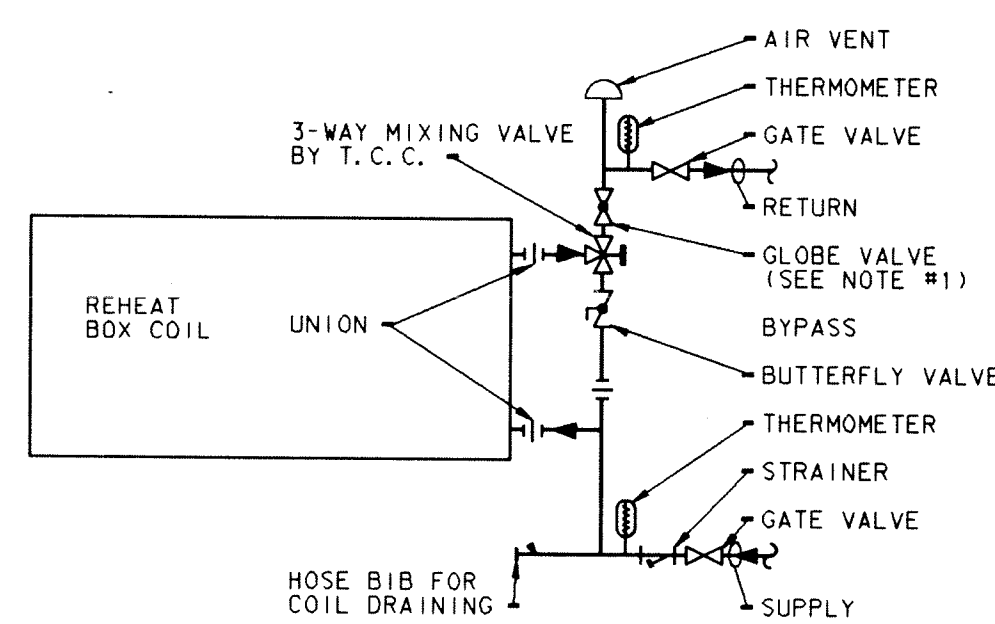


CABINET HEATER PIPING DIAGRAM
NO SCALE



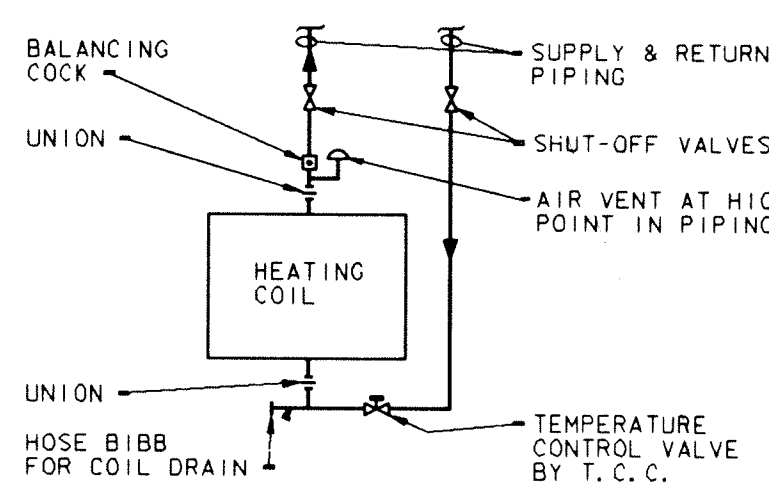
NOTES:
1. 1/2 HORSEPOWER AIR COMPRESSOR MOUNTED ON 200 GALLON ASME TANK. MOTOR DATA: 460 VOLTS, 3 PHASE, 60 HERTZ.
2. REFRIGERATED AFTERCOOLER, MOTOR DATA: 1/5 HORSEPOWER, 115 VOLTS, 1 PHASE, 60 HERTZ.

TEMPERATURE CONTROL AIR SUPPLY DIAGRAM
NOT TO SCALE

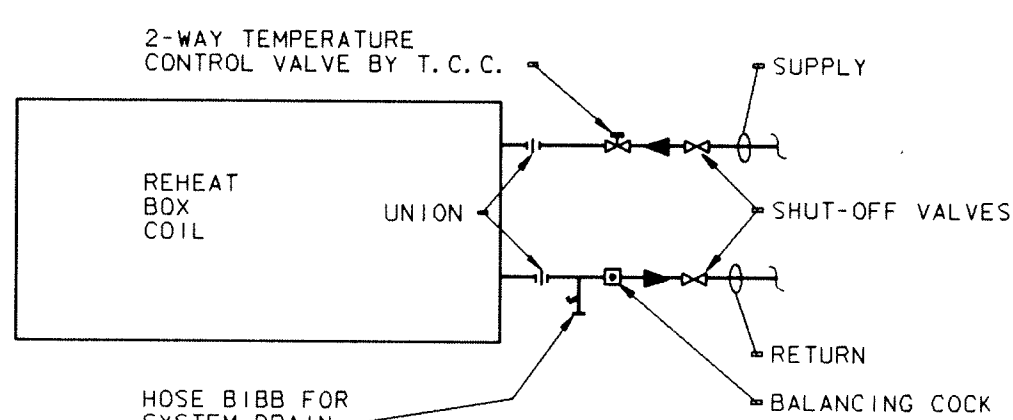


NOTE:
1. PROVIDE BALL VALVE INSTEAD OF BUTTERFLY VALVE FOR PIPE SIZES 2" AND SMALLER.

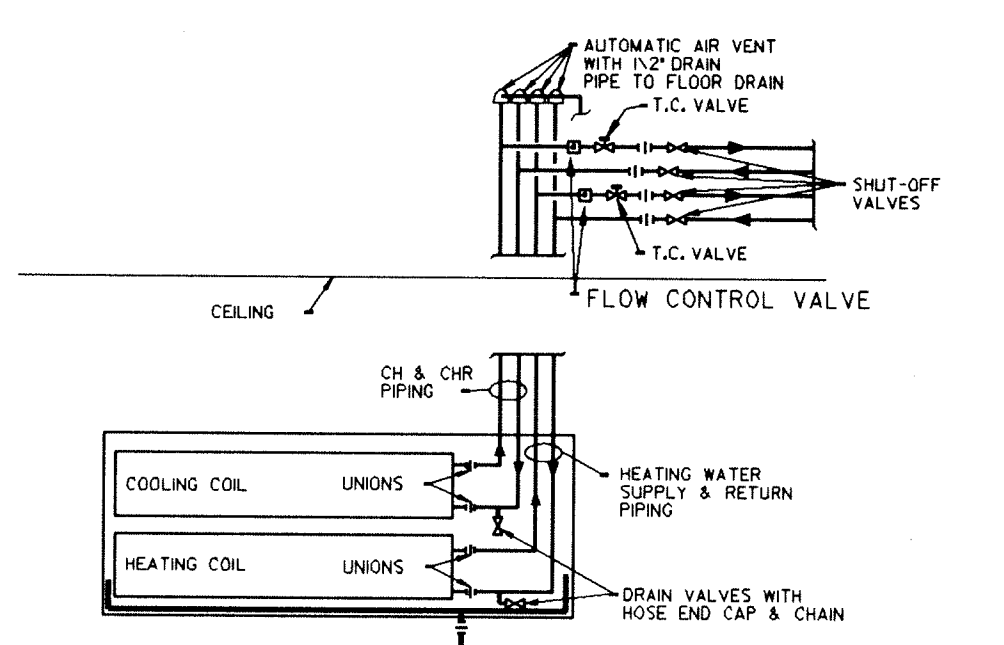
FAN POWERED BOX COIL PIPING DIAGRAM
NO SCALE



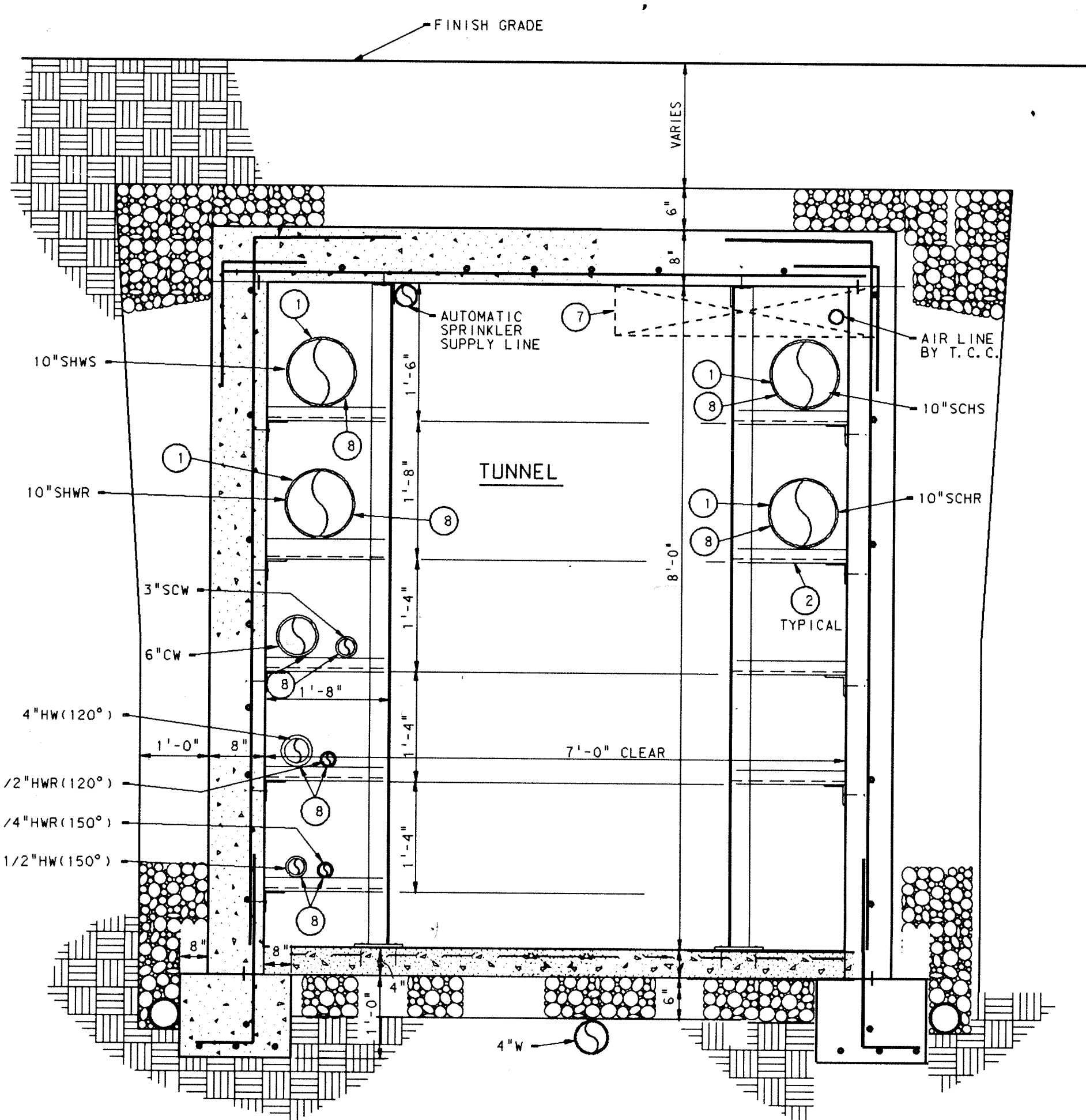
HORIZONTAL UNIT HEATER PIPING DIAGRAM
NO SCALE



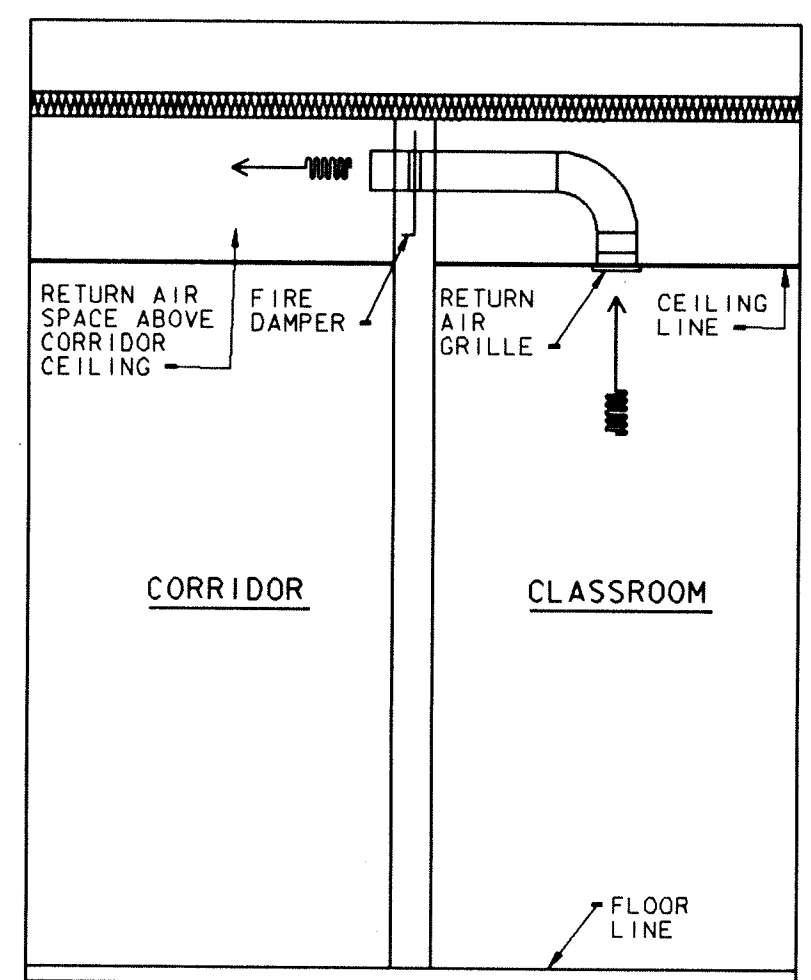
FAN POWERED BOX PIPING DIAGRAM
NO SCALE



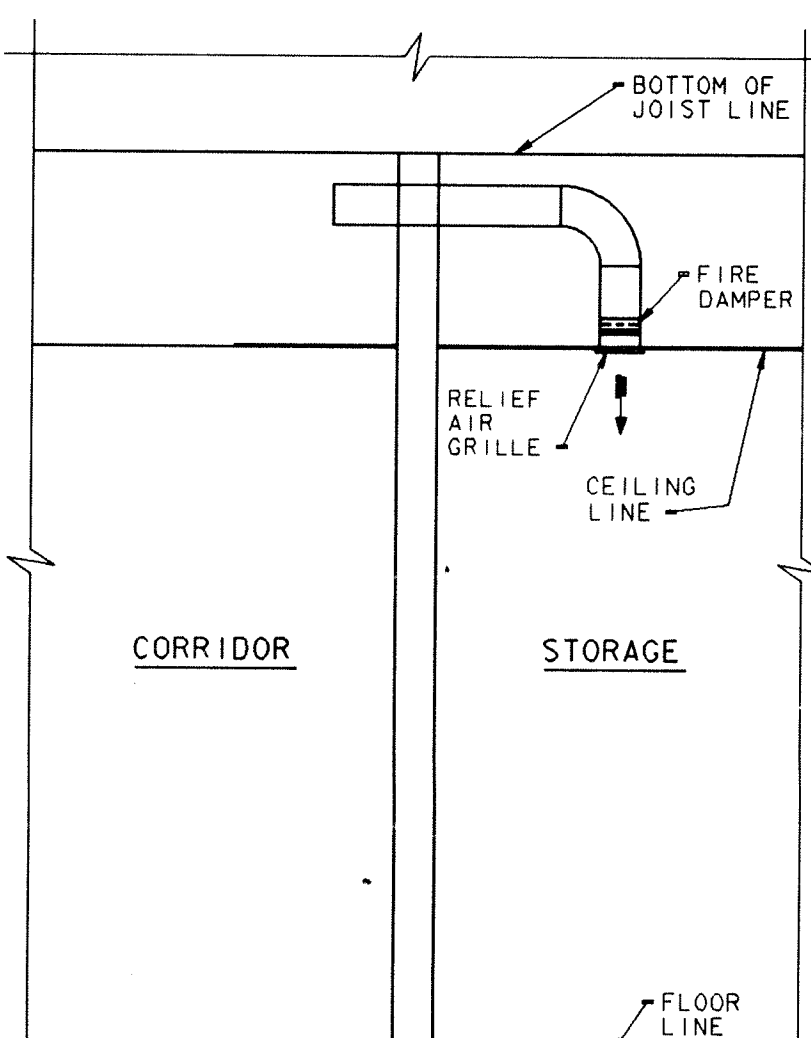
TYPICAL FAN COIL PIPING DIAGRAM
NO SCALE



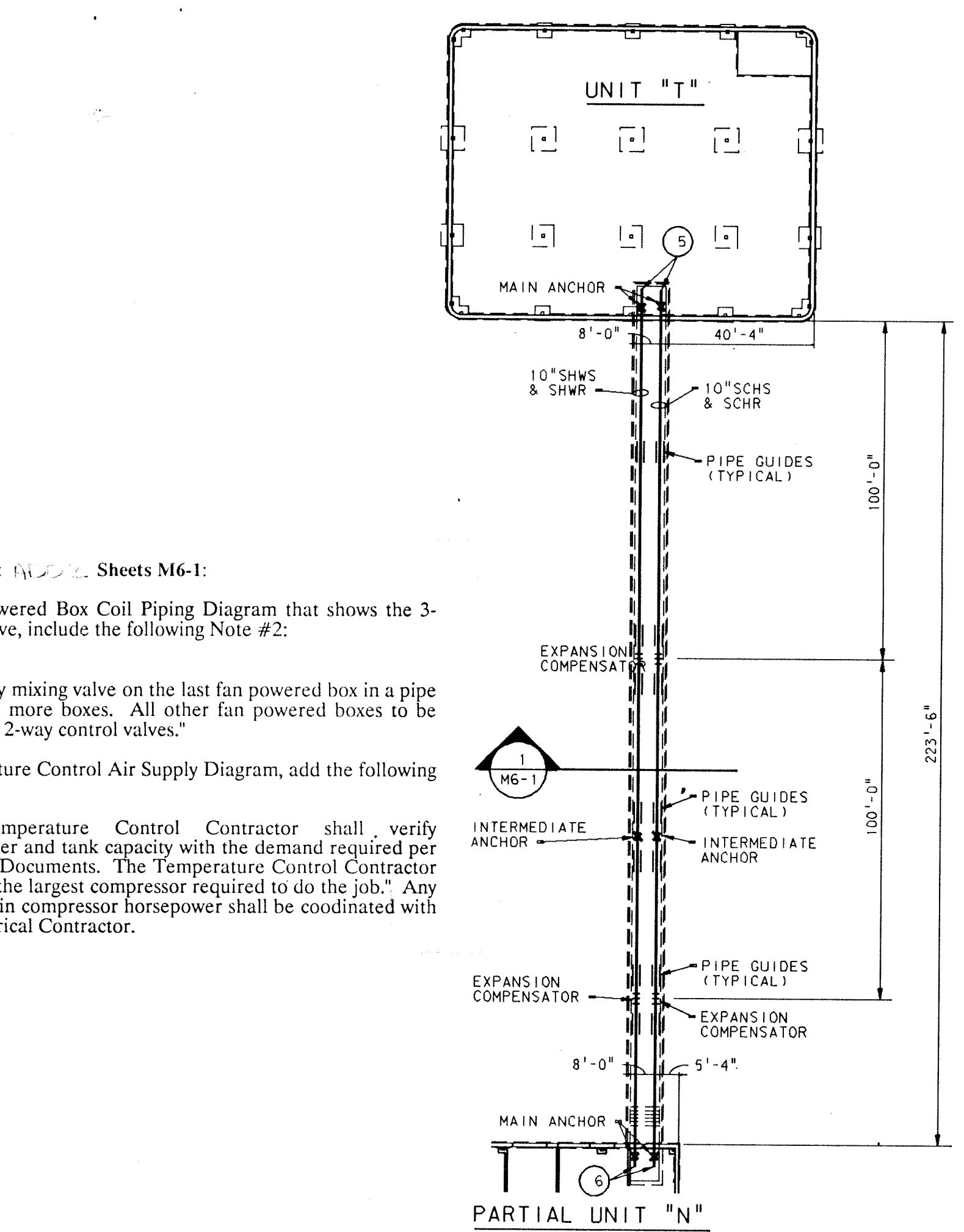
SECTION 1
SCALE: 3/4" = 1'-0"



RETURN AIR DETAIL "A"
NO SCALE

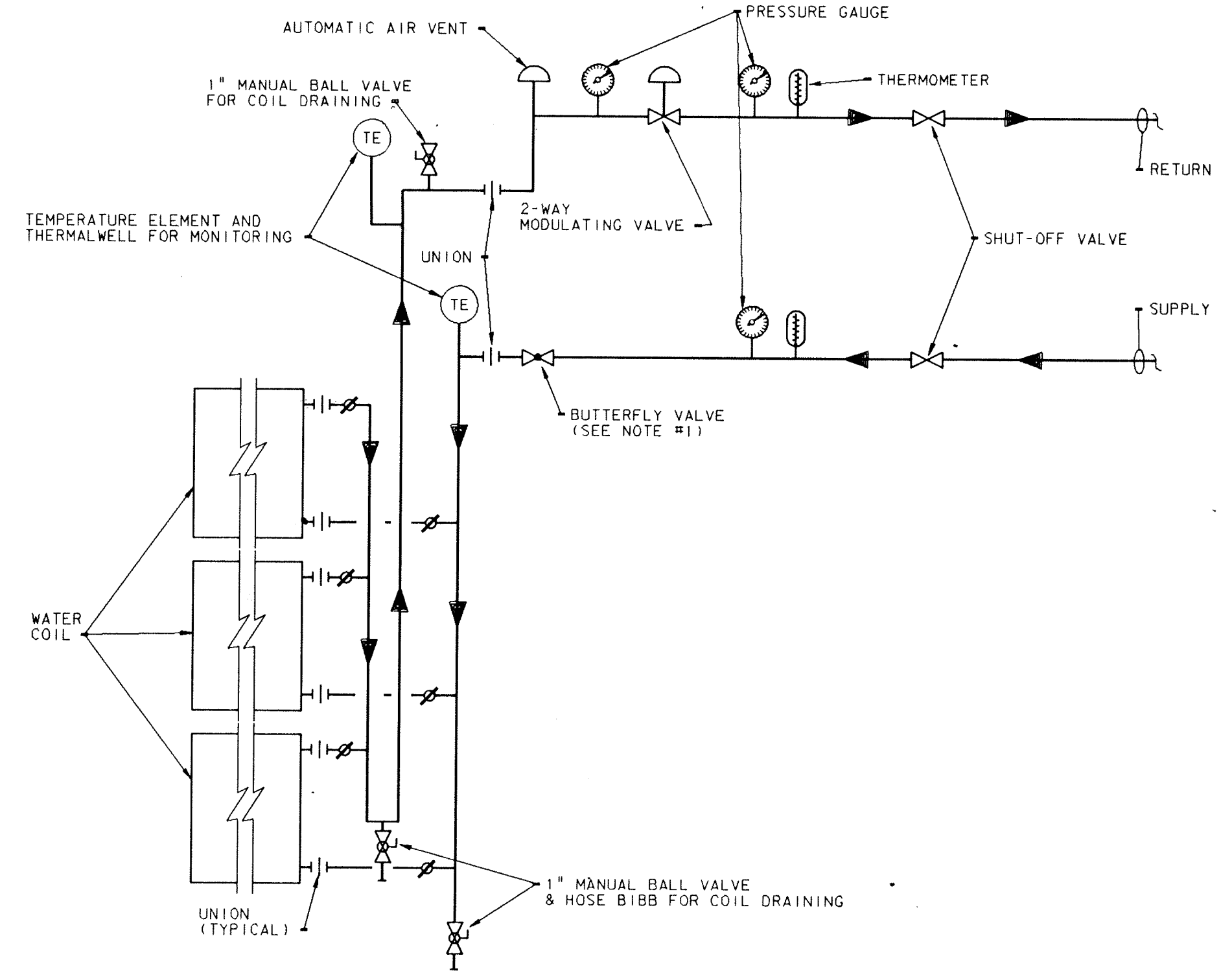


TYPICAL TRANSFER AIR DETAIL
NO SCALE



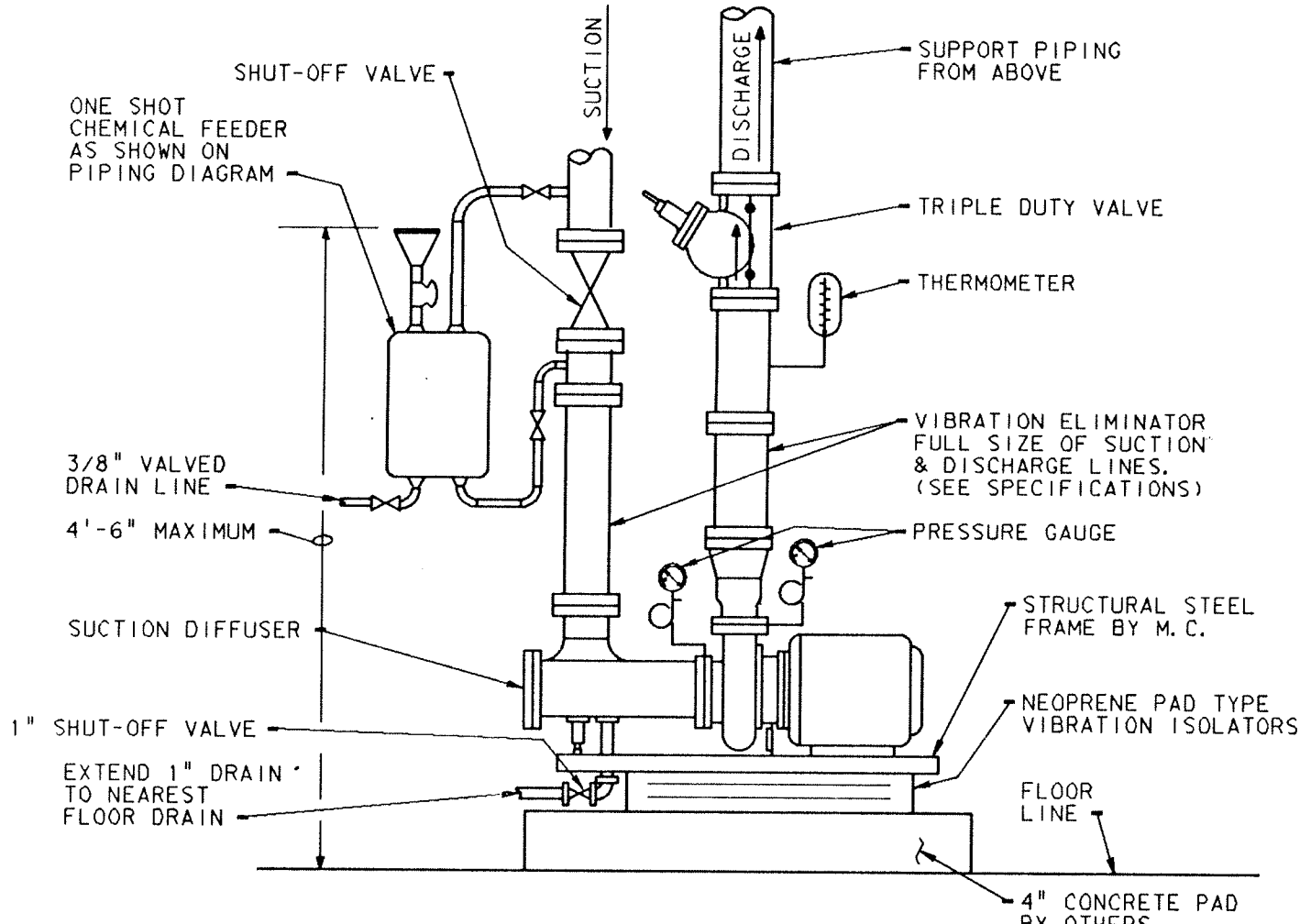
MECHANICAL TUNNEL PIPING PLAN
SCALE: 1/32" = 1'-0"

- PLAN NOTES:**
- ALL PIPES SUPPORTED FROM PIPE RACKS SHALL BE PROVIDED WITH SADDLES AND ROLLERS. SEE SPECIFICATIONS SECTION 15140.
 - SEE STRUCTURAL SHEET S1-6 FOR TUNNEL PIPE RACKS.
 - SEE SPECIFICATIONS SECTION 15121 FOR EXPANSION COMPENSATORS, ANCHORS AND PIPE GUIDES.
 - EXPANSION COMPENSATORS AS MANUFACTURED BY HYPSON PRECISION PRODUCTS, INC. FOR CHILLED WATER MODEL 3501-174-4 FIXED FLANGED, FOR HOT WATER MODEL 3501-174-6 FIXED FLANGED, DESIGN PRESSURE 150 PSI.
 - FOR CONTINUATION OF PIPING SEE SHEETS M4-1 AND P4-24.
 - FOR CONTINUATION OF PIPING SEE SHEETS M7-1 AND P4-21.
 - SPACE DEDICATED FOR ELECTRICAL CONDUIT.
 - AT ALL LOW POINTS OF PIPING IN TUNNEL PROVIDE 1" MANUAL BALL VALVE AND HOSE BIBB FOR PIPE DRAINING.

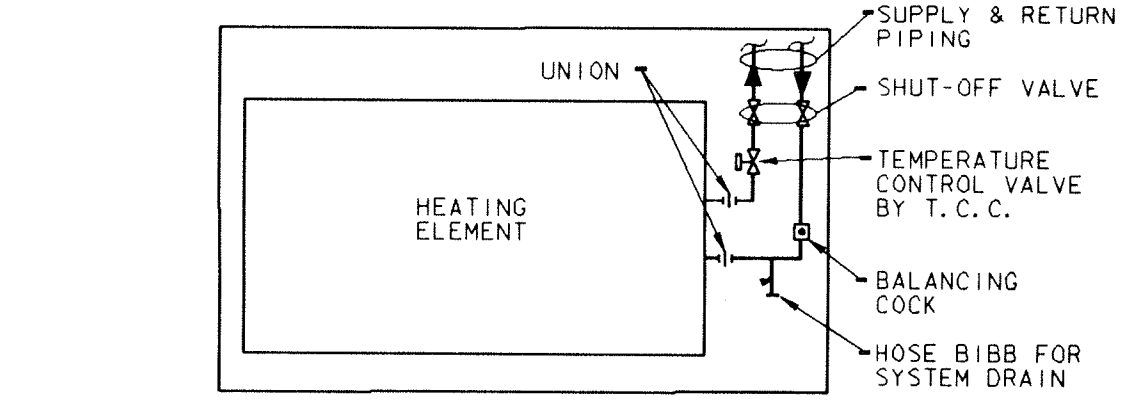


NOTE:
1. PROVIDE BALL VALVE IN PLACE OF BUTTERFLY VALVE FOR PIPE SIZES 2" AND SMALLER.
2. TEMPERATURE CONTROL VALVE SHALL PROVIDE POSITIVE SHUT-OFF DURING OFF-SEASON OPERATION.
3. SEE SCHEDULE FOR NUMBER OF COIL BANKS.

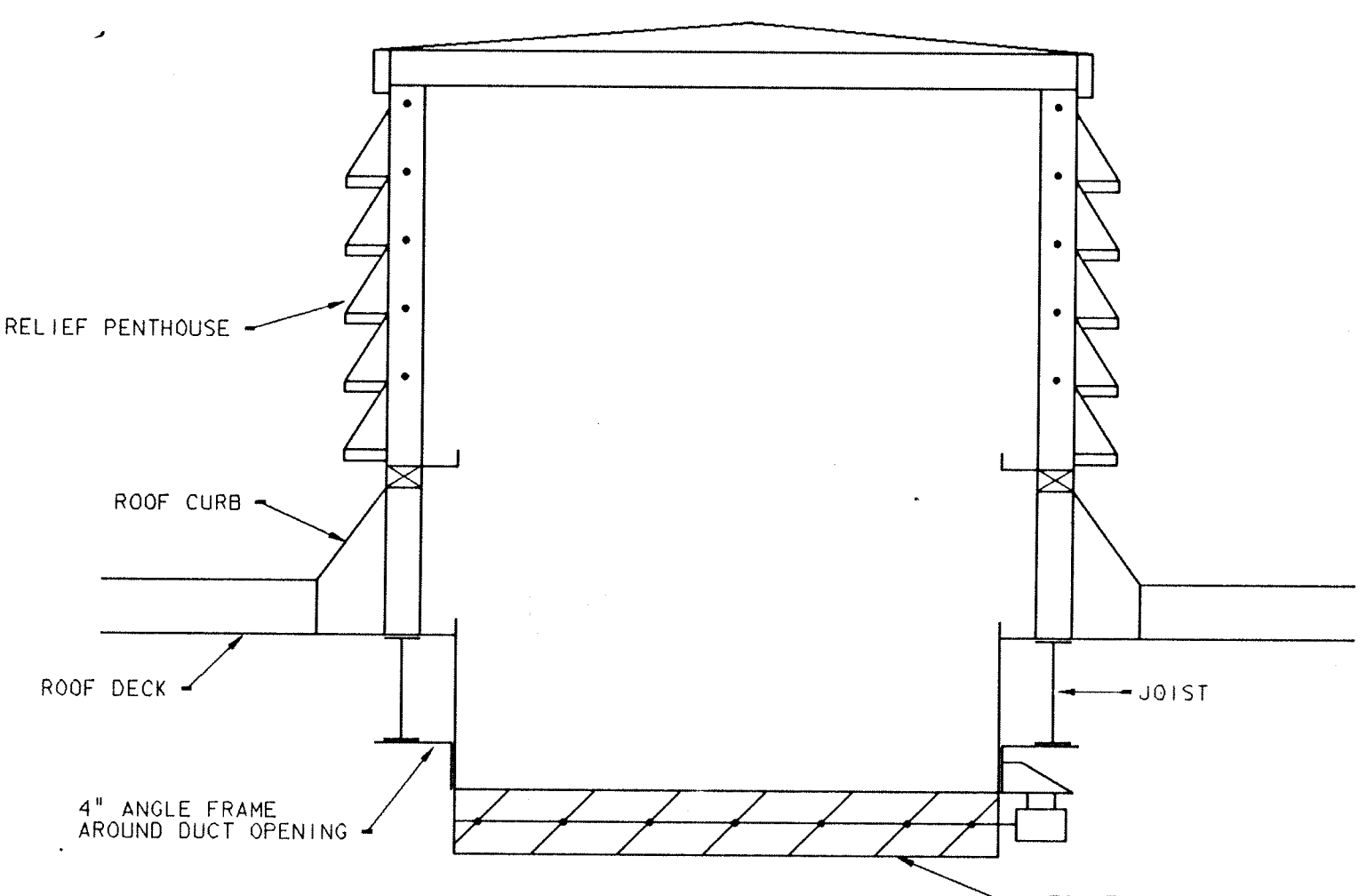
AIR HANDLING UNIT HEATING AND COOLING COIL PIPING DIAGRAM
NOT TO SCALE



TYPICAL CIRCULATING PUMP CONNECTION
NO SCALE



CONVECTOR PIPING DIAGRAM
NO SCALE

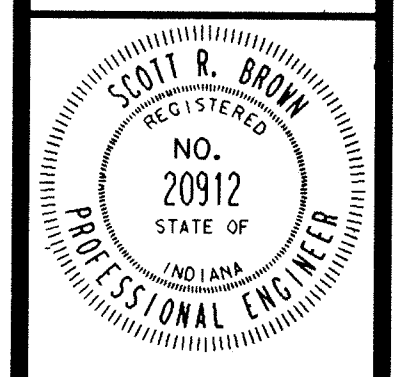


RELIEF AIR PENTHOUSE
NOT TO SCALE

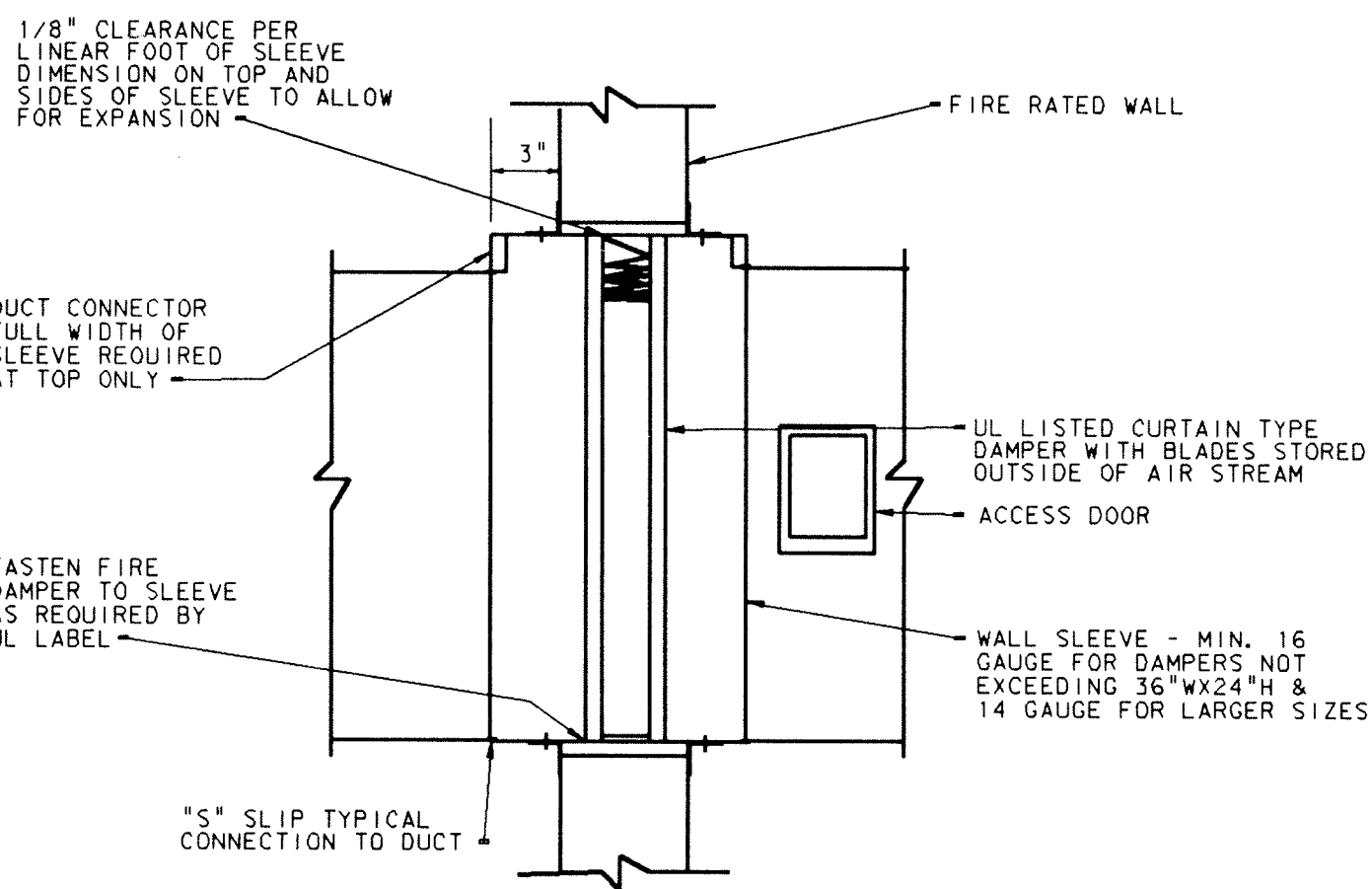
- PROVIDE INSULATED DUCT FROM DAMPER THROAT.
- RELIEF AIR PENTHOUSE PROVIDED BY ROOFING CONTRACTOR.

ADDITION TO AND RENOVATION OF LAWRENCE CENTRAL HIGH SCHOOL
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EBROWN
 Architects & Engineers
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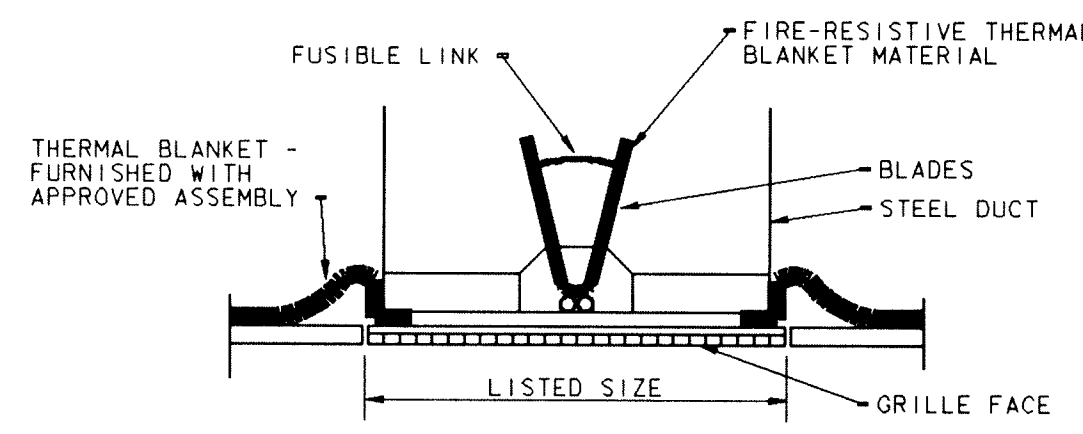


TYPICAL WALL FIRE DAMPER DETAIL

NOT TO SCALE

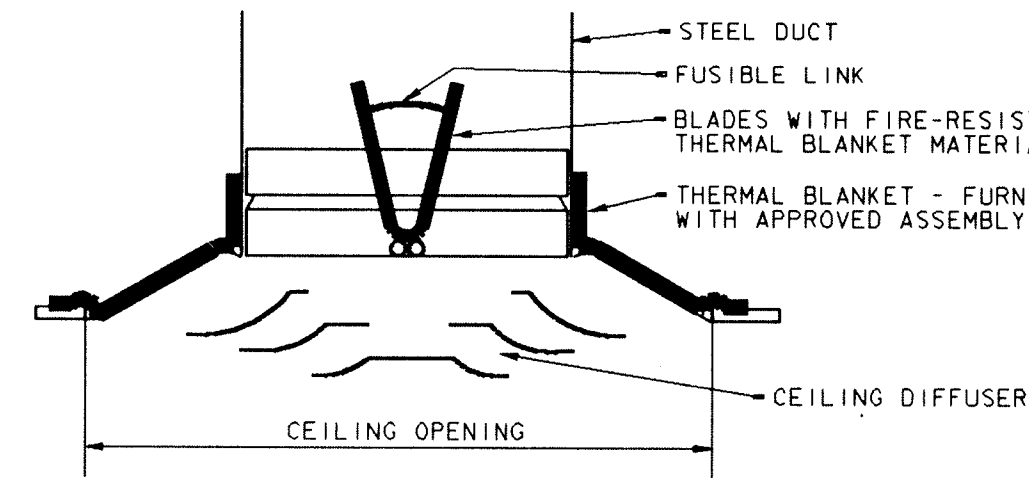
NOTES:

1. INSTALLATION SHALL CONFORM TO NFPA-90A AND UL SAFETY STANDARD 555.
2. PROVIDE HINGED OR DOUBLE CATCH ACCESS DOOR SIZED & LOCATED TO PERMIT REPLACEMENT OF FUSIBLE LINK AND LABELLED.



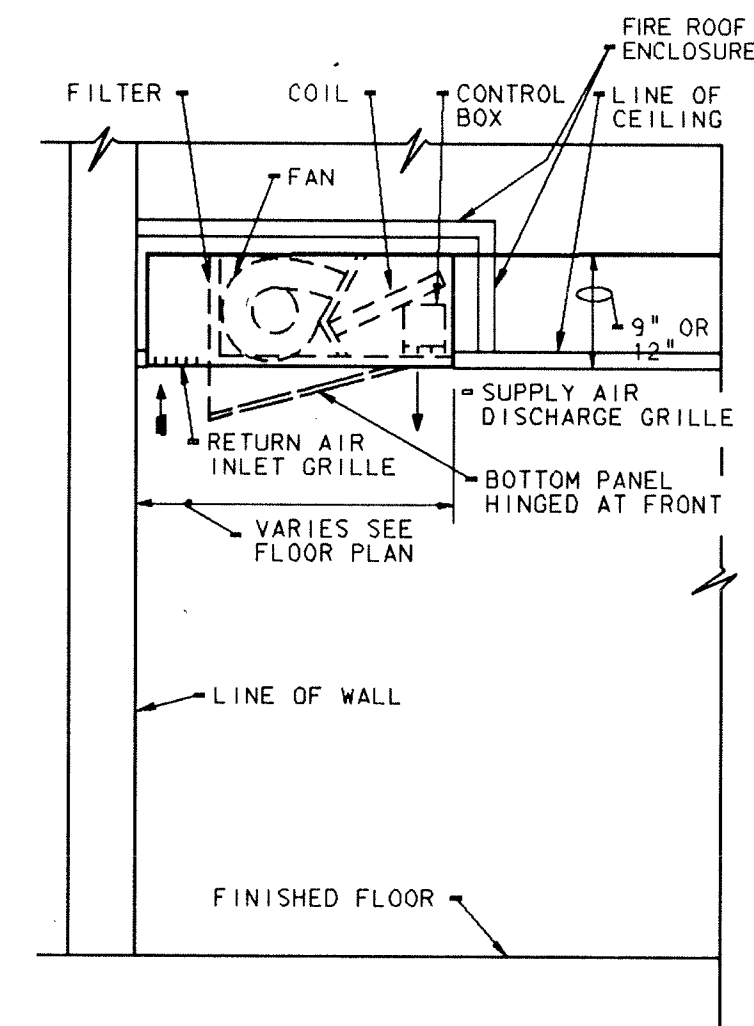
FIRE RATED RETURN AIR GRILLE

NOT TO SCALE



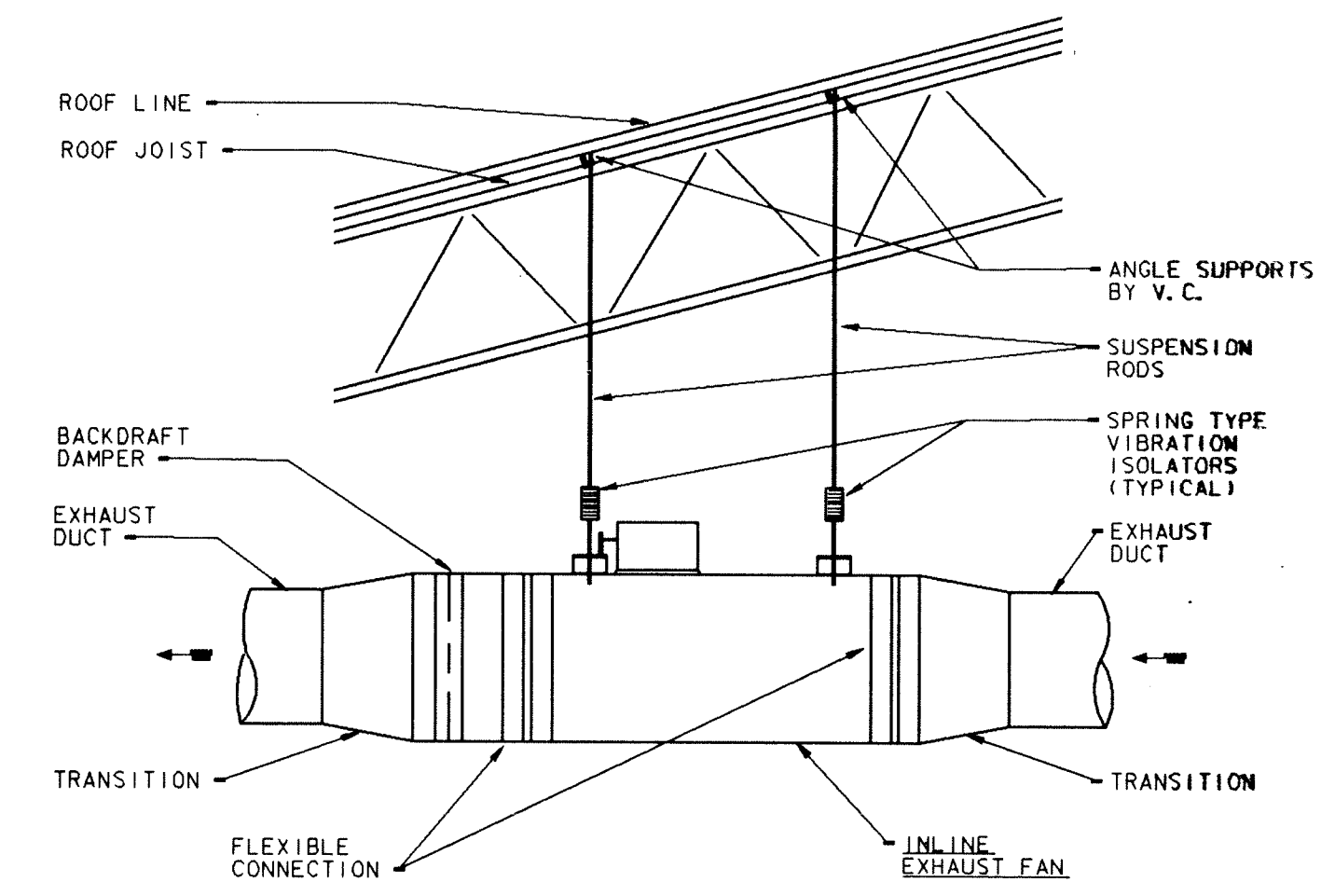
FIRE RATED CEILING AIR DIFFUSER

NOT TO SCALE



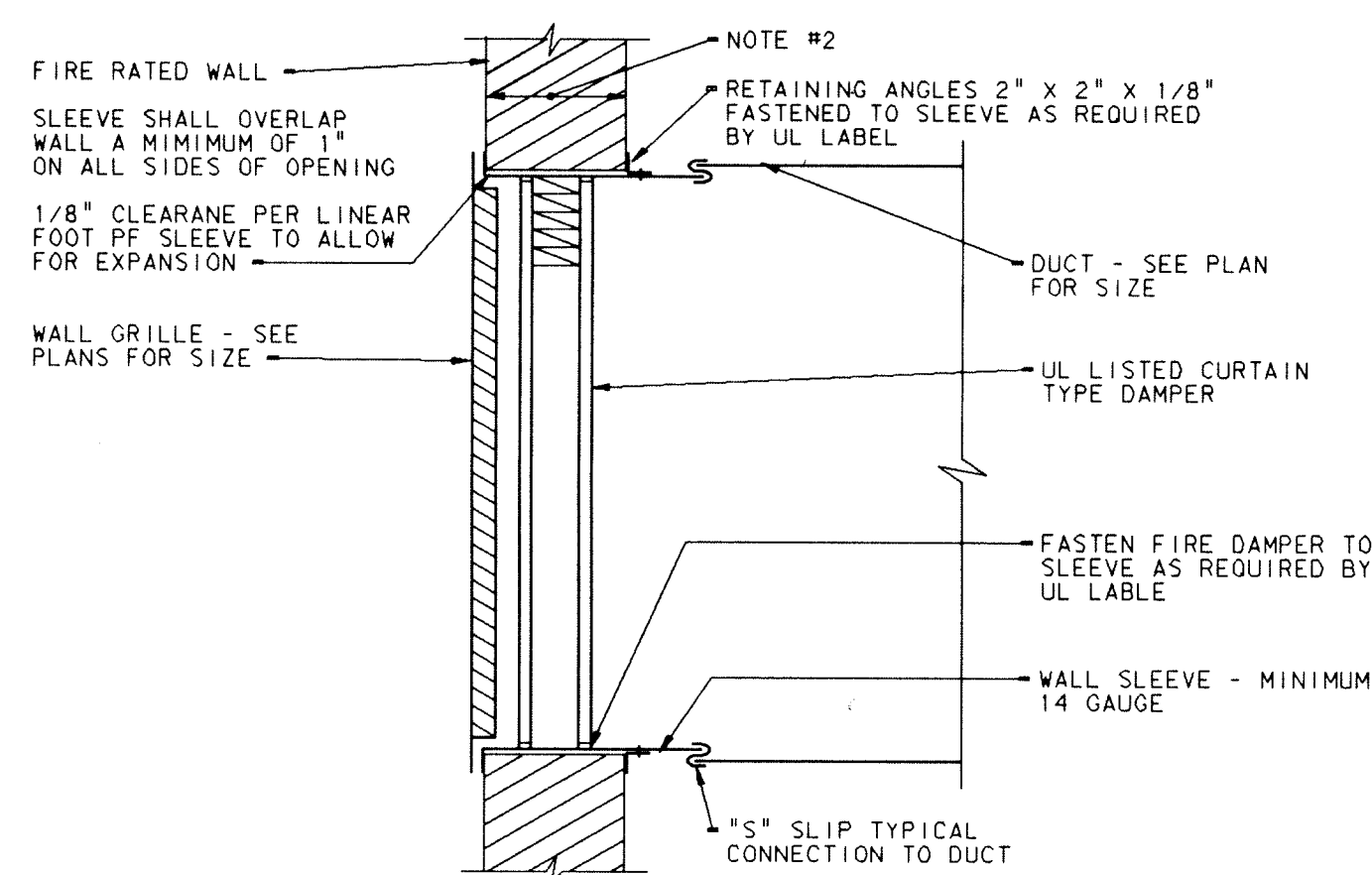
DETAIL OF CEILING MOUNTED CABINET HEATER

NO SCALE



TYPICAL IN-LINE EXHAUST FAN DETAIL

NOT TO SCALE

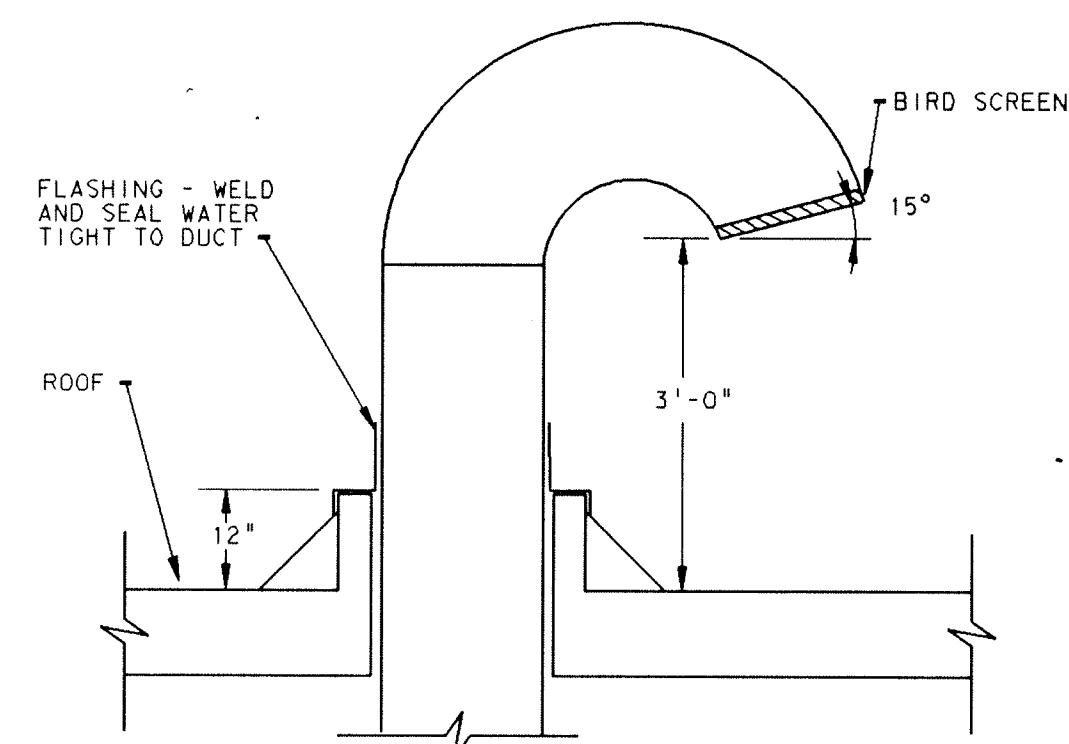


DETAIL OF TYPICAL WALL CONNECTION TO DUCT IN A FIRE RATED WALL

NOT TO SCALE

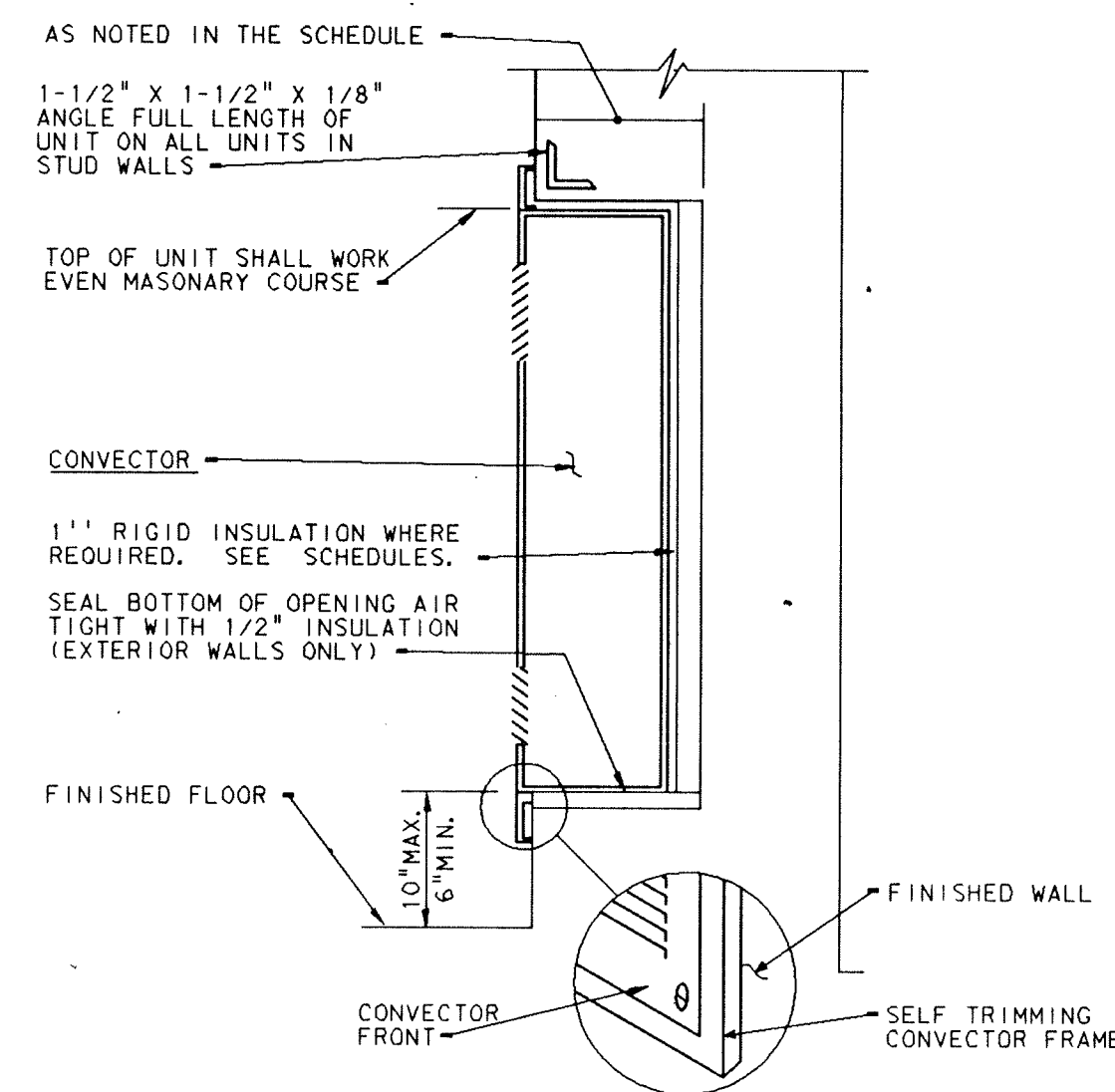
NOTES:

1. INSTALLATION SHALL CONFORM TO NFPA-90A AND UL SAFETY STANDARD 55.5
2. DAMPERS IN WALLS OVER 6\"/>



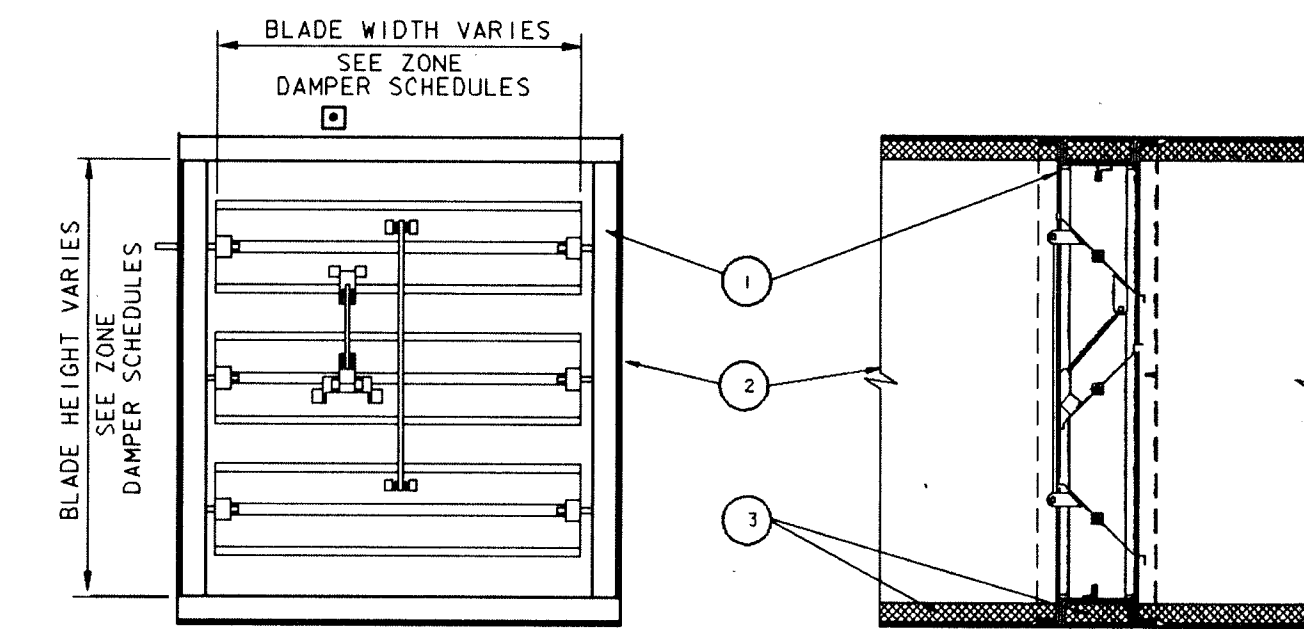
TYPICAL GOOSE NECK DETAIL

NOT TO SCALE



TYPICAL DETAIL OF RECESSED CONVACTOR

NO SCALE

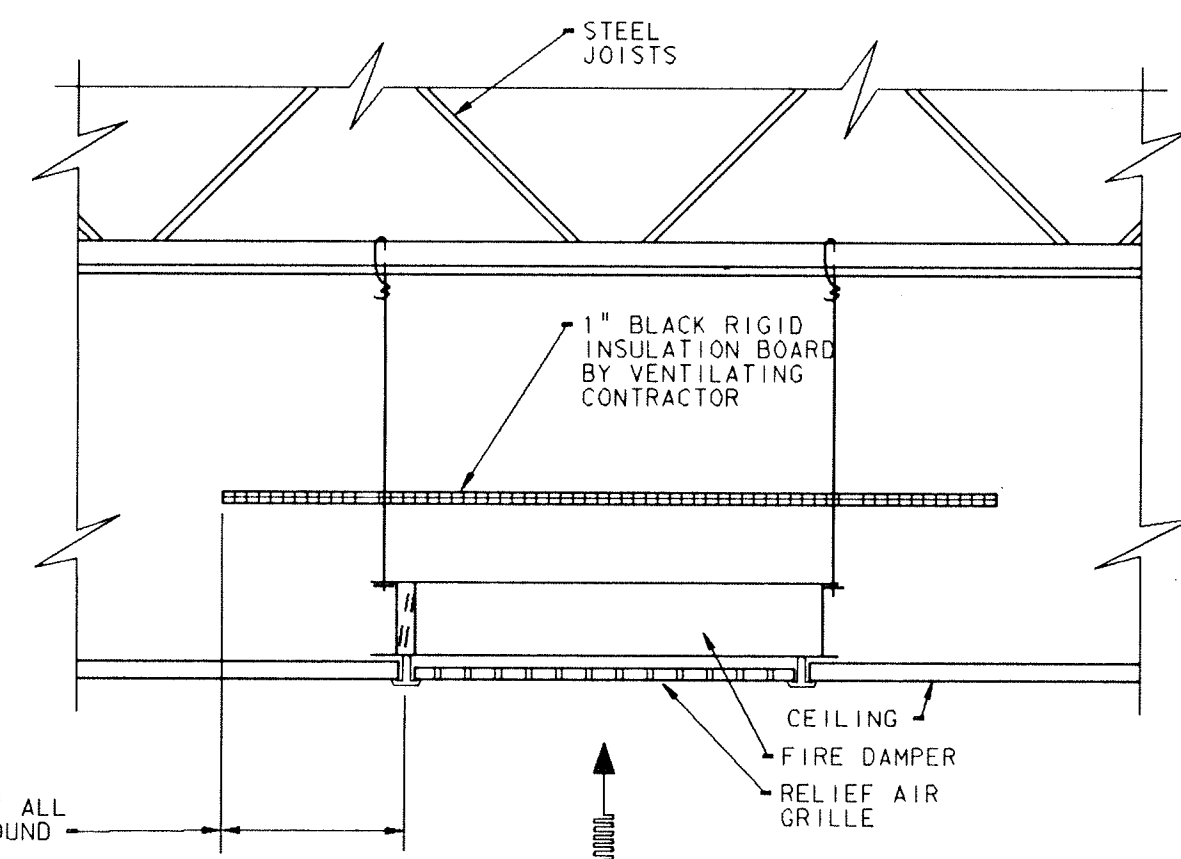


DETAIL - INSTALLATION OF DAMPERS OF VARIED ARRANGEMENT IN LINED SHEET METAL DUCTWORK

NOT TO SCALE

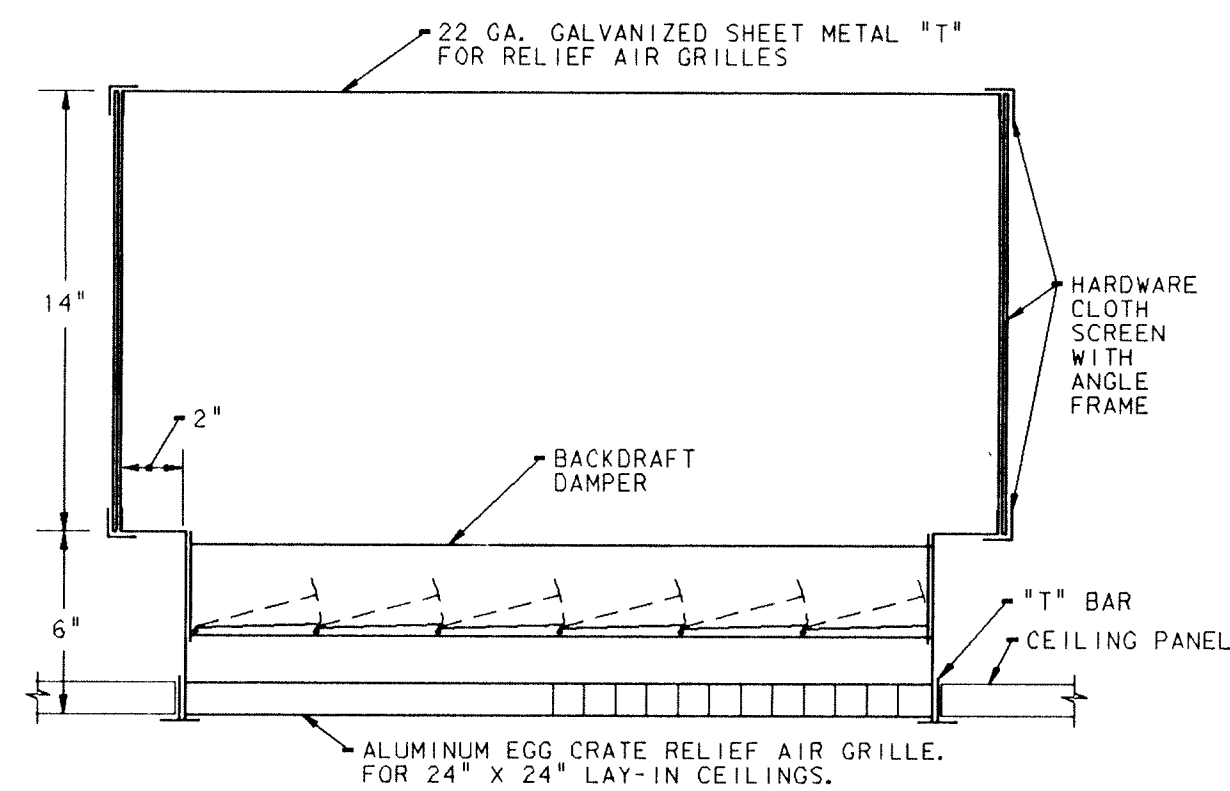
PLAN NOTES:

1. FLANGED CHANNEL OF GALVANIZED STEEL 2 GAGES HEAVIER THAN DUCT GAGE, WITH WIDTH OVERALL 1\"/>



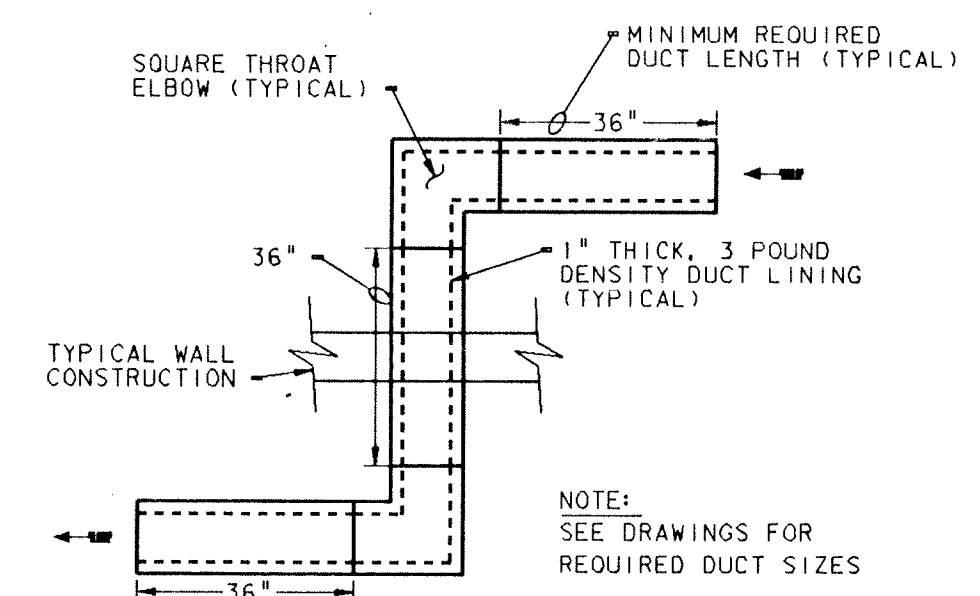
NON-DUCTED CEILING RELIEF AIR GRILLE DETAIL

NO SCALE



ALUMINUM EGG CRATE RELIEF AIR GRILLE DETAIL

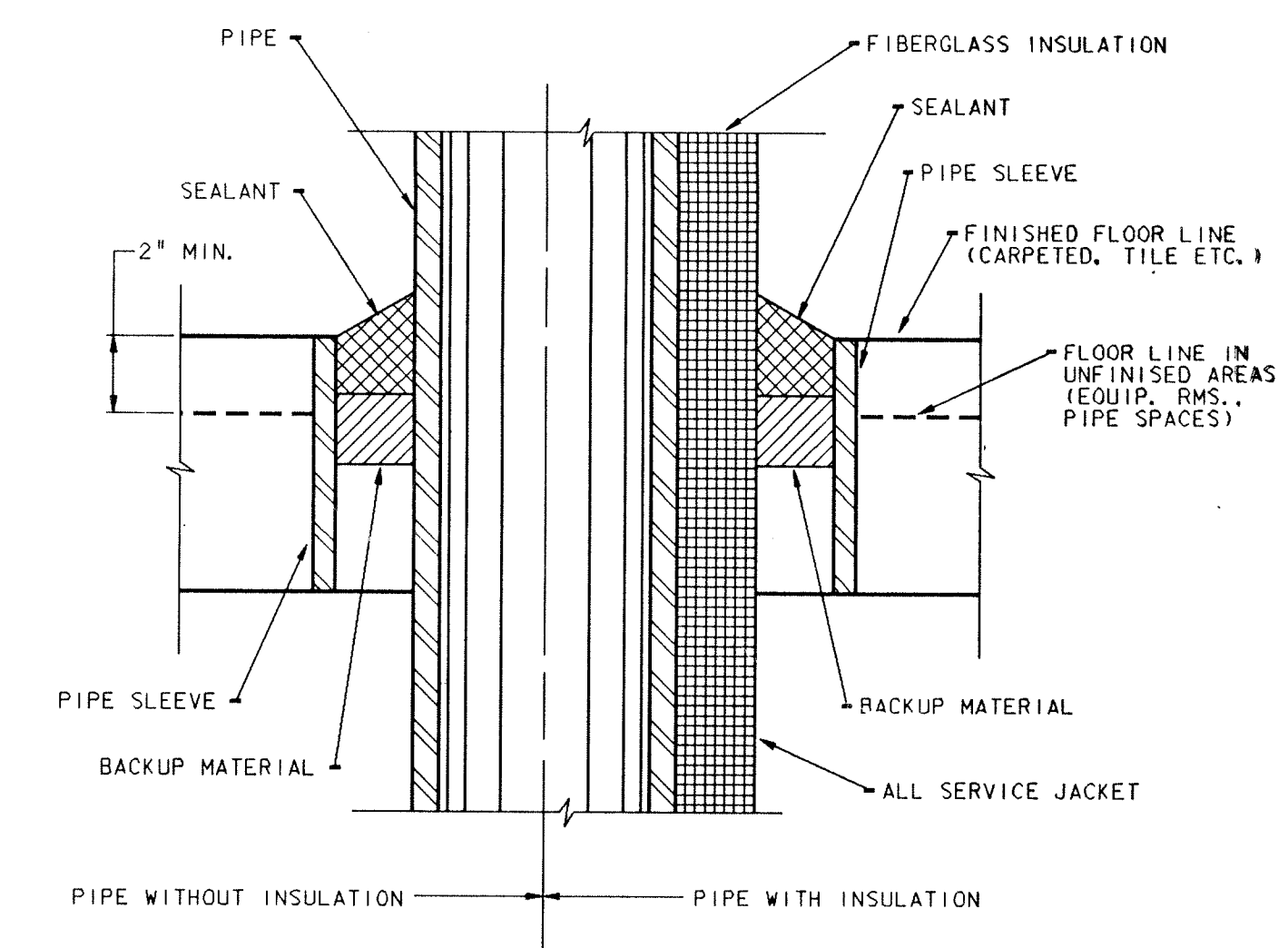
NOT TO SCALE



TYPICAL RETURN AIR SOUND ELBOWS

NOT TO SCALE

- NOTE:**
SEE FLOOR PLANS FOR FIRE DAMPER REQUIREMENTS FOR SPECIFIC CONDITIONS.



PIPE SLEEVE THRU FLOOR DETAIL

NOT TO SCALE

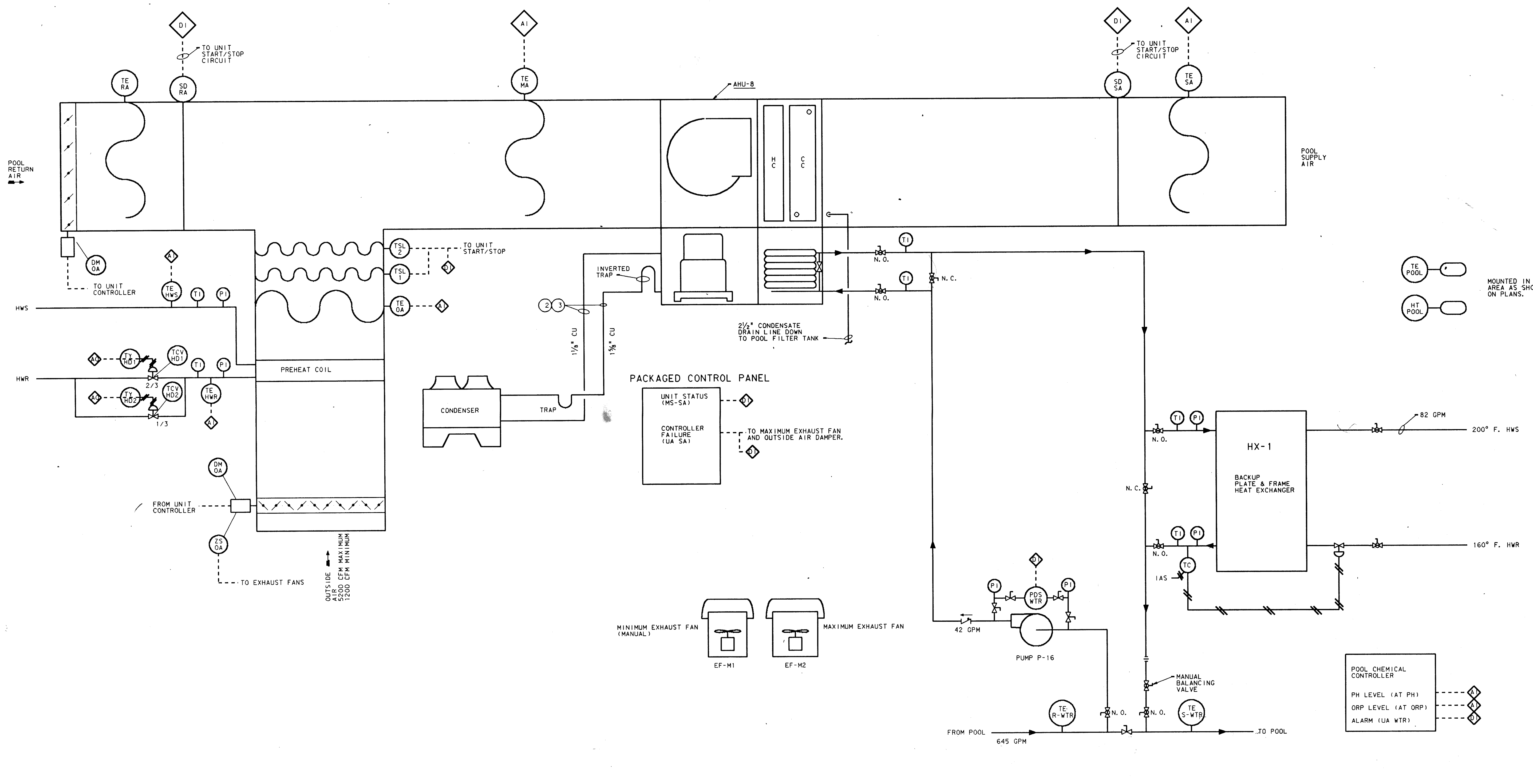
NOTE:

- PIPE AND INSULATION TO BE CENTERED IN SLEEVE.

CONTRACTS #4: ALP2 Sheet M6-2:

1. Revise Title to Typical Return Air Sound Elbows to read "Typical Return/Relief Air 'Z' Duct Sound Elbows."
2. On Typical Goose Neck Detail, call out duct to be "stainless steel". See Plans for size.

- PLAN NOTES:**
- SEE SHEETS M0-1 THRU M0-5 FOR GENERAL NOTES, LEGEND, AND SCHEDULES.
 - UNIT SUPPLIER TO VERIFY REFRIGERANT PIPE SIZING.
 - ONE CIRCUIT SHOWN, TWO ARE REQUIRED.



AHU # 8 POOL SYSTEM
NOT TO SCALE

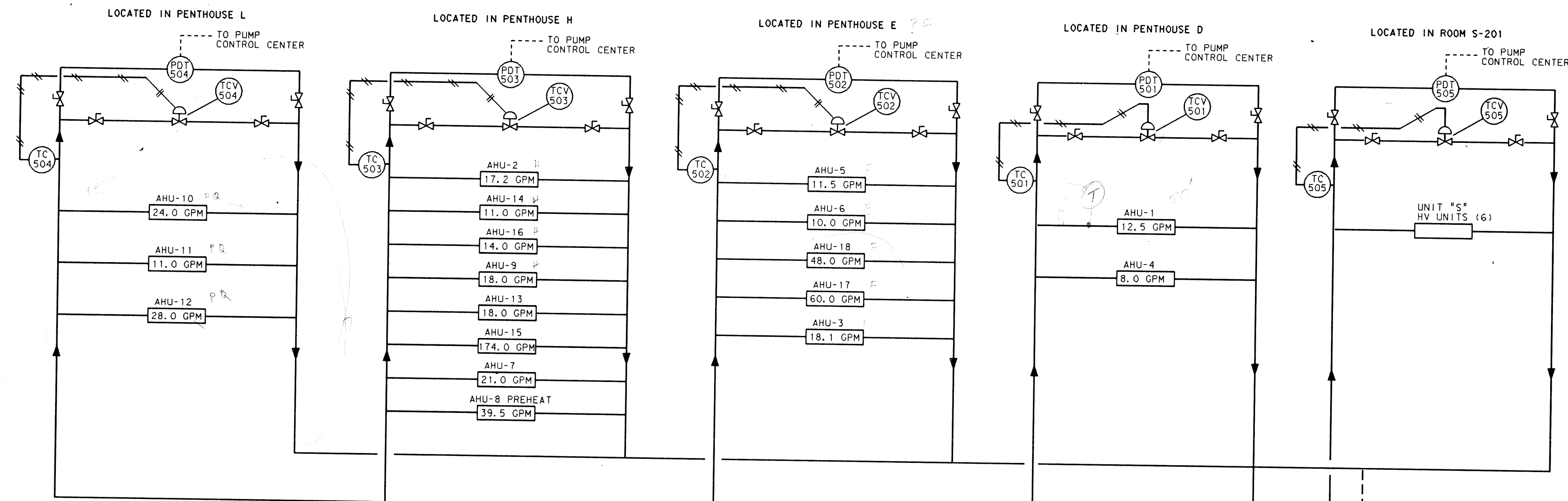
CONTRACTS #3, #4; ADD 2. Sheets M6-3:
A. The Condensing Unit is to be shown higher than AHU-8 on the diagram. The Condensing Unit is located on the Diving Well Roof. The trap shown near the Condensing Unit is to be an inverted trap. The trap located near the compressor shall be a deep seal trap.

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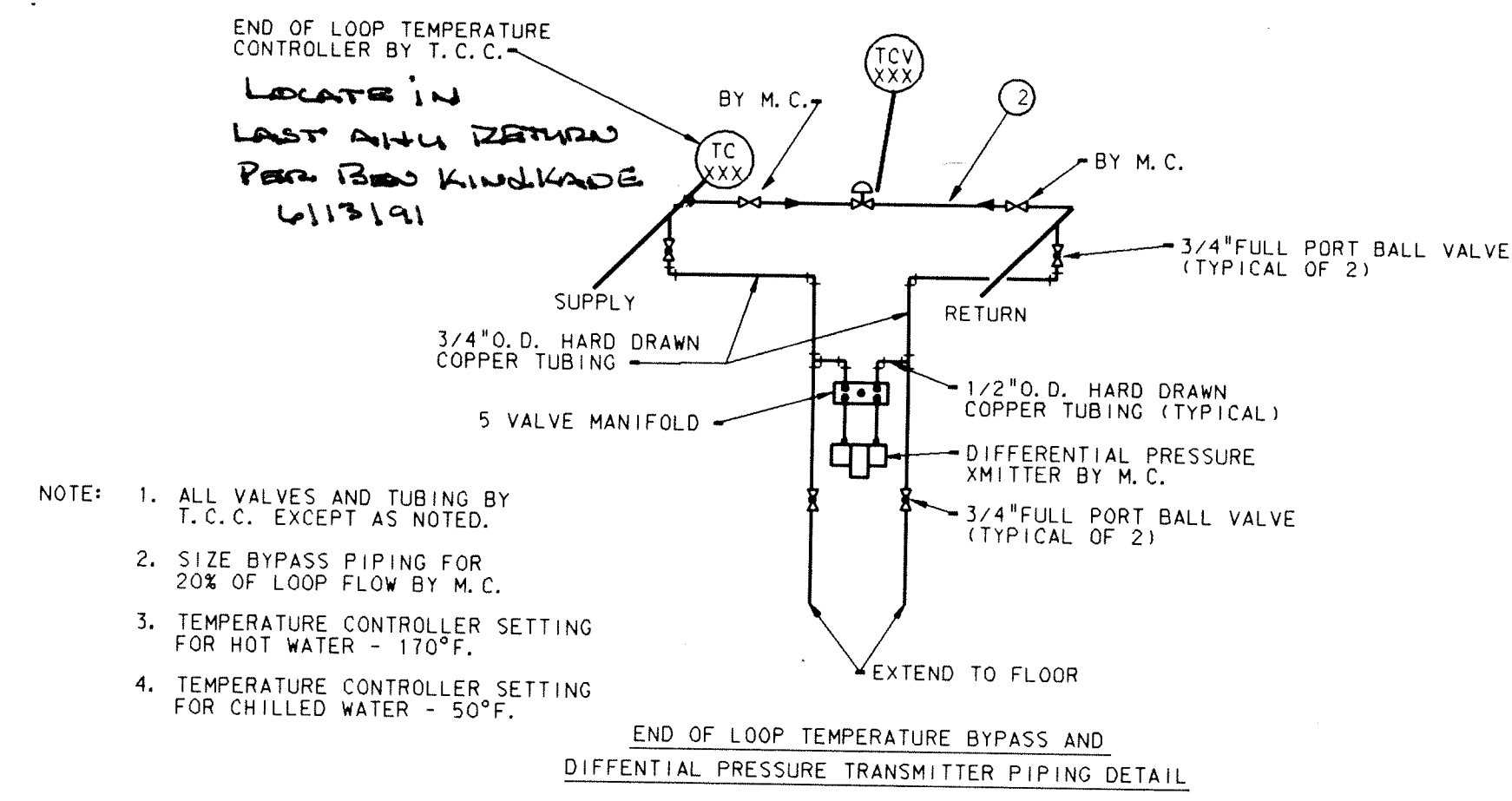


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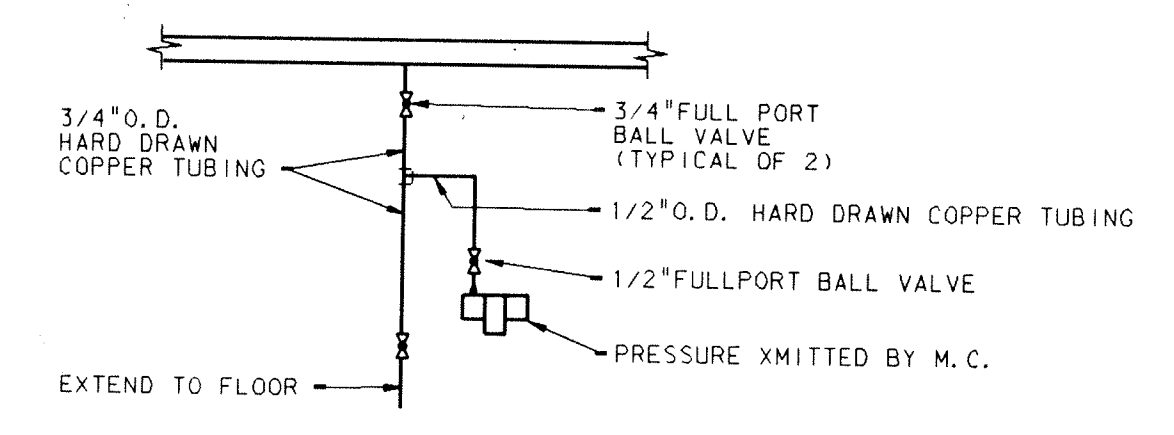


PLAN NOTES:

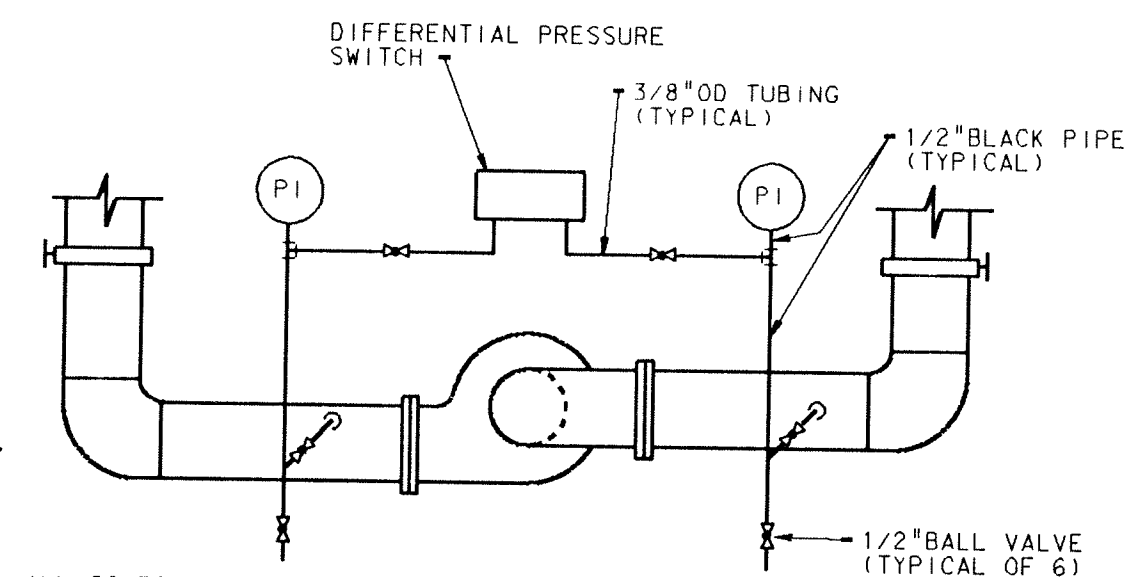
- 1 OIL PIPE TRAIN-SUPPLIER BY BOILER MANUFACTURER.
- 2 GAS PIPING TRAIN-SUPPLIER BY BOILER MANUFACTURER.
- 3 AMTROL PRESSURIZED COMPRESSION TANK, SEE SCHEDULE FOR CAPACITY AND SIZE.
- 4 AMTROL AIR SEPARATOR
- 5 SEE SHEET MO-1 THRU MO-5 FOR GENERAL NOTES, LEGEND AND SCHEDULES.
- 6 ALL DEVICES SHOWN ON PACKAGE PUMP UNIT TO BE SUPPLIED, INSTALLED AND WIRED TO PUMP CONTROL CENTER BY PACKAGE SUPPLIER.



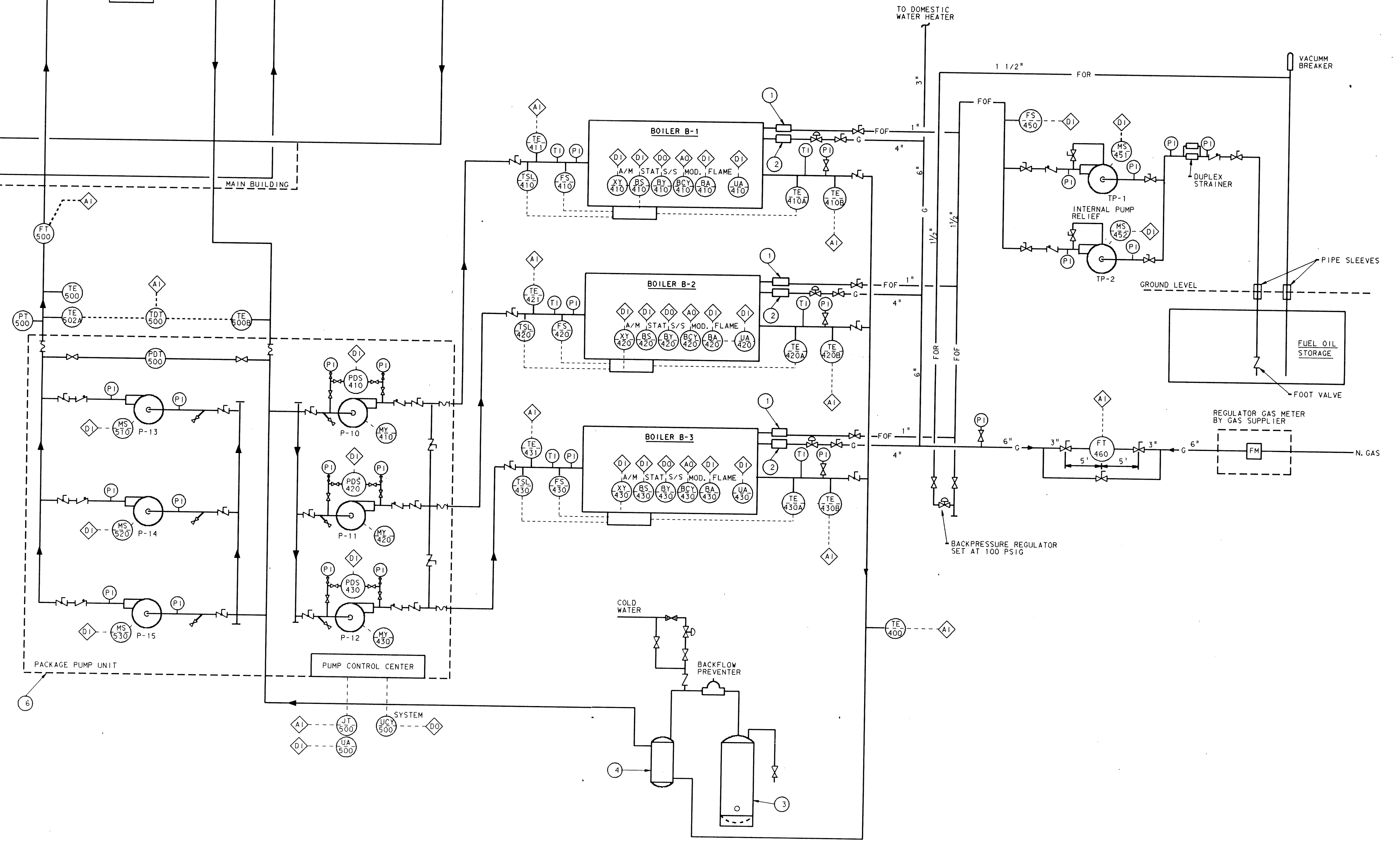
DETAIL 1
NOT TO SCALE



DETAIL 2
NOT TO SCALE

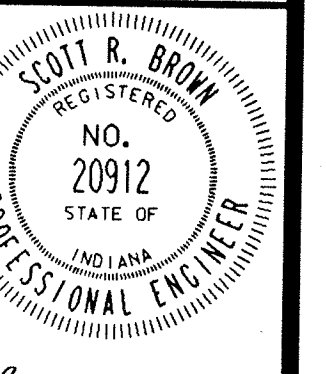


DETAIL 3
NOT TO SCALE



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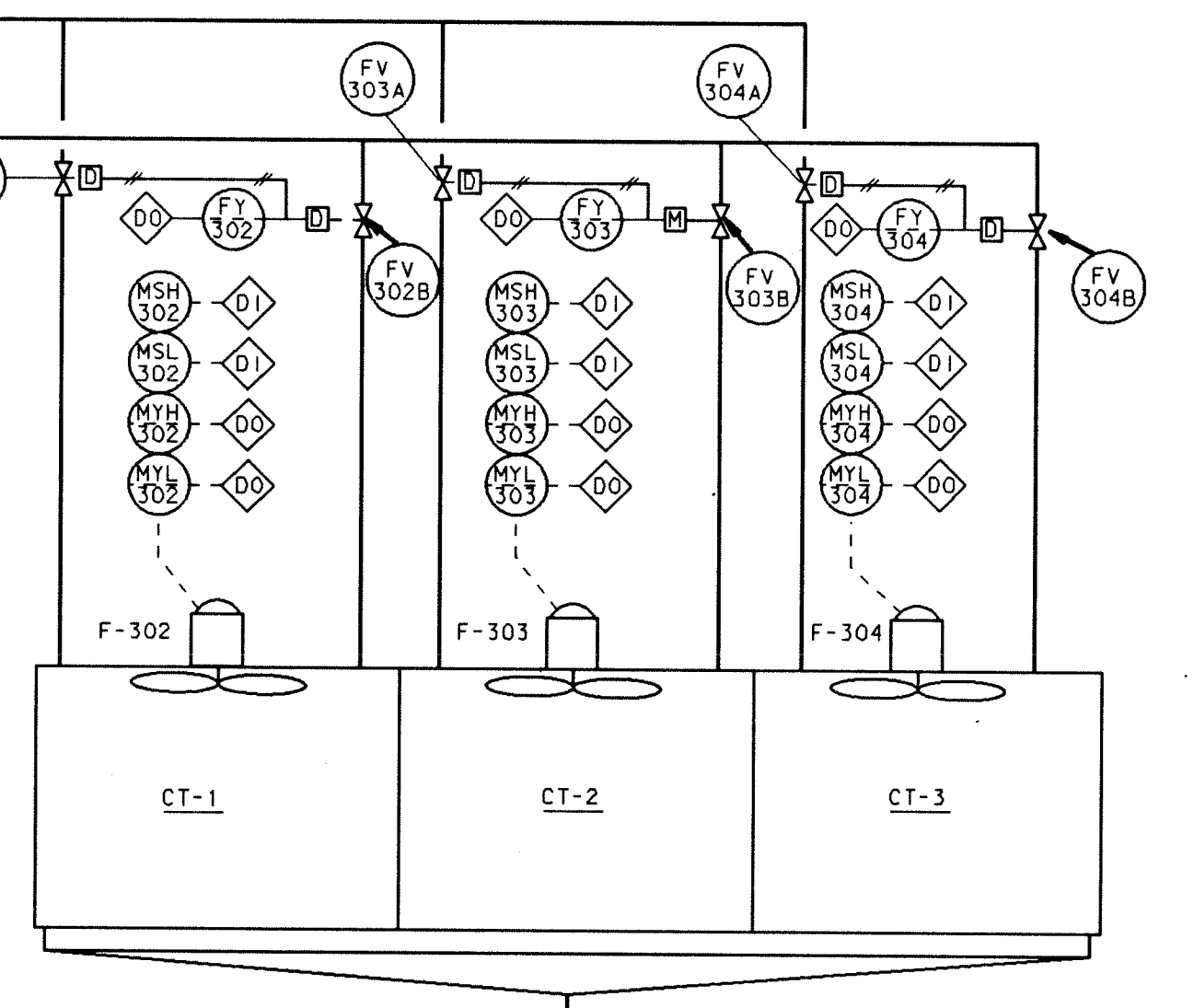
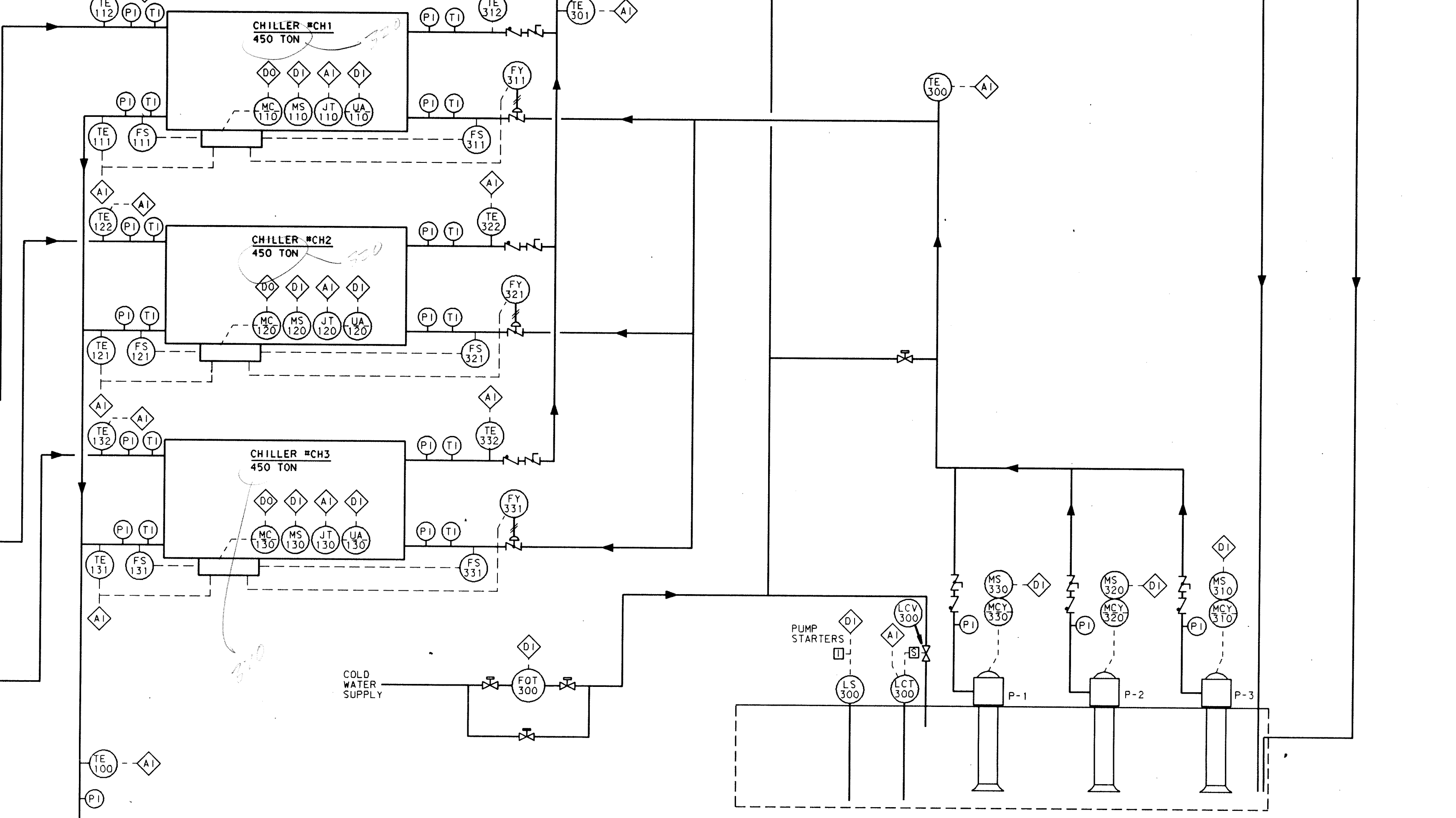
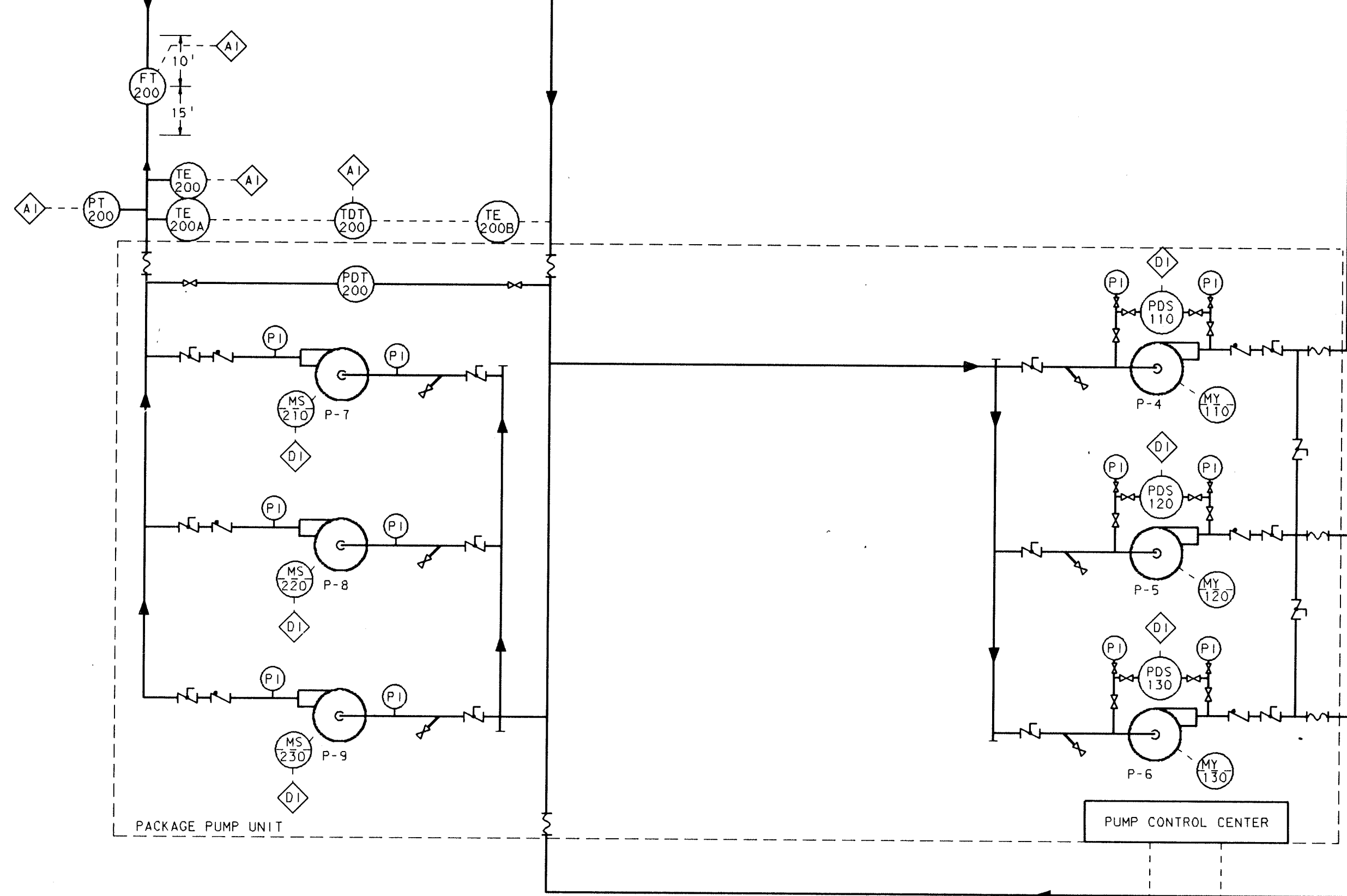
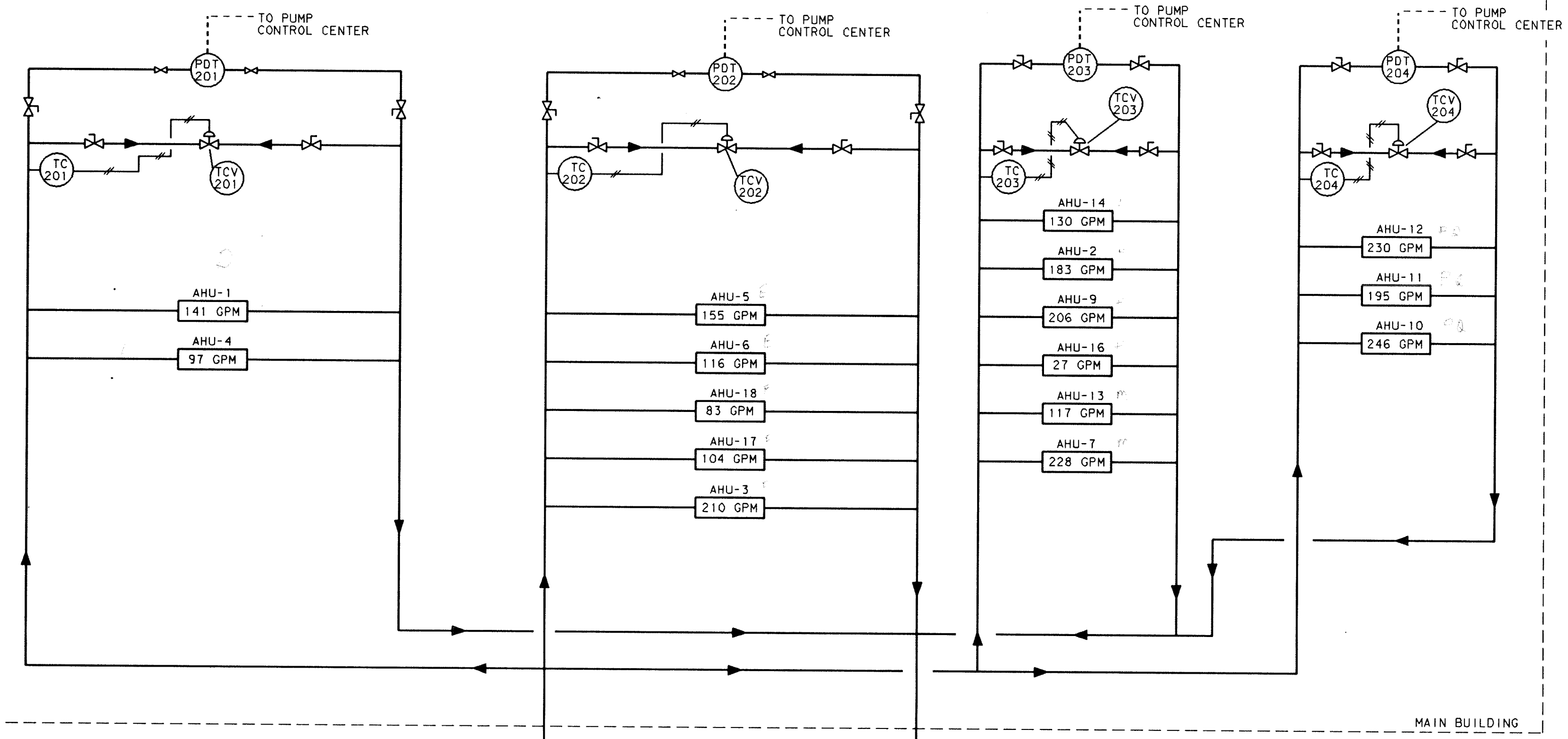


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PLAN NOTES:
 ① SEE SHEET M0-1 THRU M0-5 FOR GENERAL NOTES, LEGEND AND SCHEDULES.

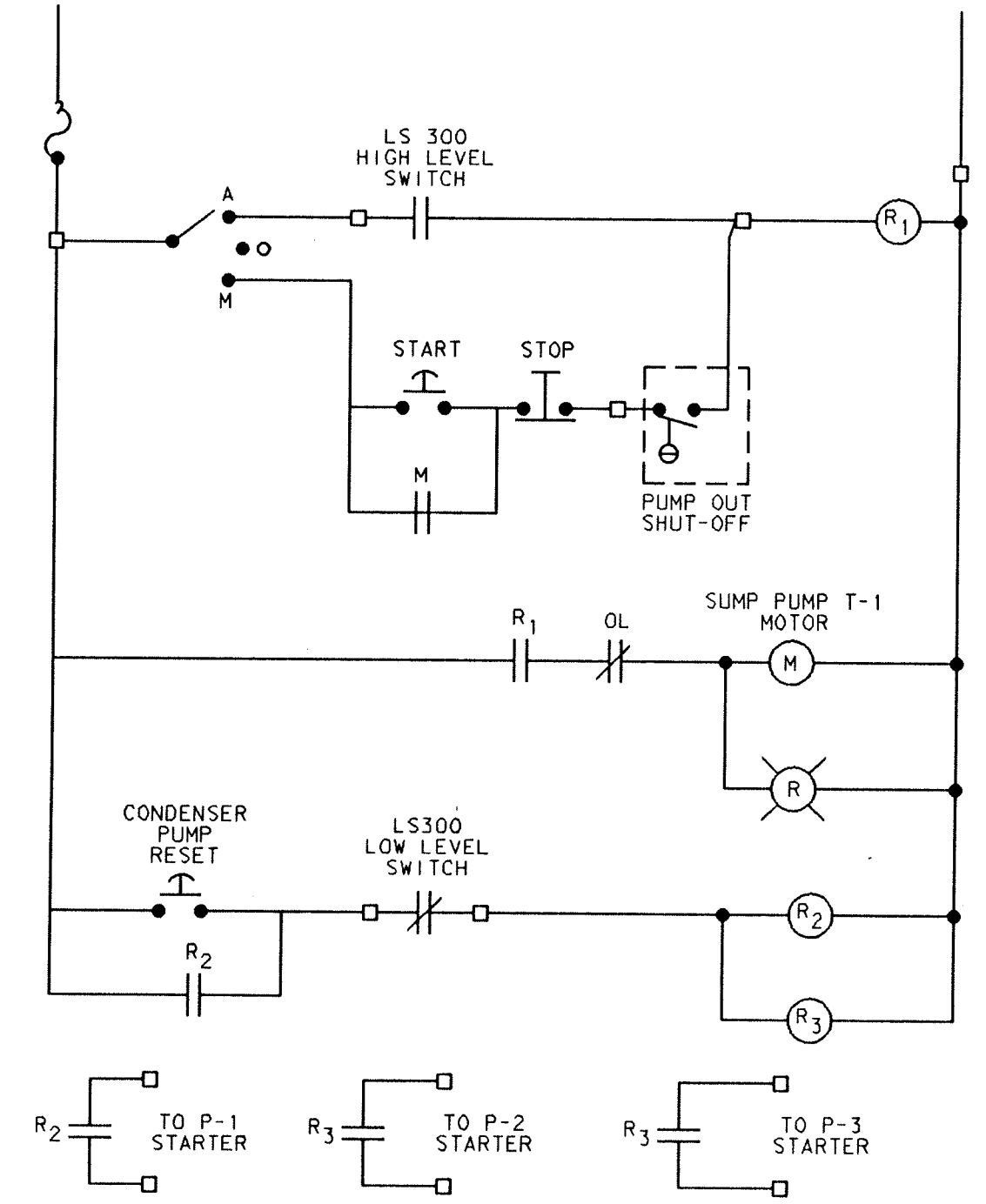


96. CONTRACT #3: 4002 Sheet M6-5:
 A. Delete reference to 450 ton located under each chiller and insert 320 ton.

CHILLED WATER FLOW DIAGRAM

NOT TO SCALE

- EQUIPMENT DESIGNATION LEGEND:
- 1XX - PRIMARY CHILLED WATER SYSTEM
 - 2XX - SECONDARY CHILLED WATER SYSTEM
 - 3XX - CONDENSOR WATER SYSTEM
 - 4XX - PRIMARY HEATING WATER SYSTEM
- ⊗ (xx) FIELD MOUNTED DEVICE
 - ⊗ (xx) PANEL MOUNTED DEVICE
 - ⊠ (x) ANALOG INPUT
 - ⊠ (x) ANALOG OUTPUT
 - ⊠ (D) DIGITAL INPUT
 - ⊠ (D) DIGITAL OUTPUT



NOTES:
 □ INDICATES TERMINAL BLOCKS FOR FIELD CONNECTIONS.
 1.) RELAY R1 SHALL BE A MINIMUM NEMA SIZE 1 STARTER.
 2.) PUMPOUT SHUT-OFF SWITCH PROVIDED AND INSTALLED BY MECH., WIRED BY T. C. C.

TOWER SUMP PUMP CONTROL & CONDENSER WATER PUMP LOW LEVEL CONTROL

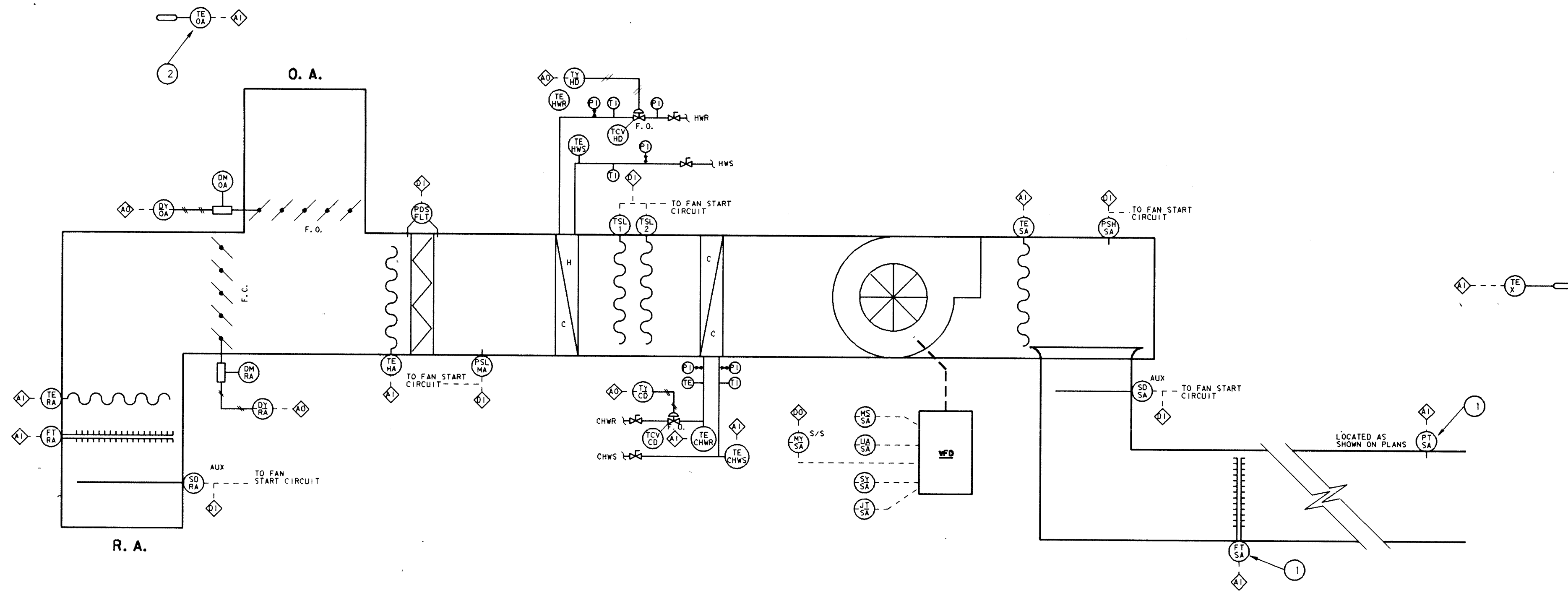
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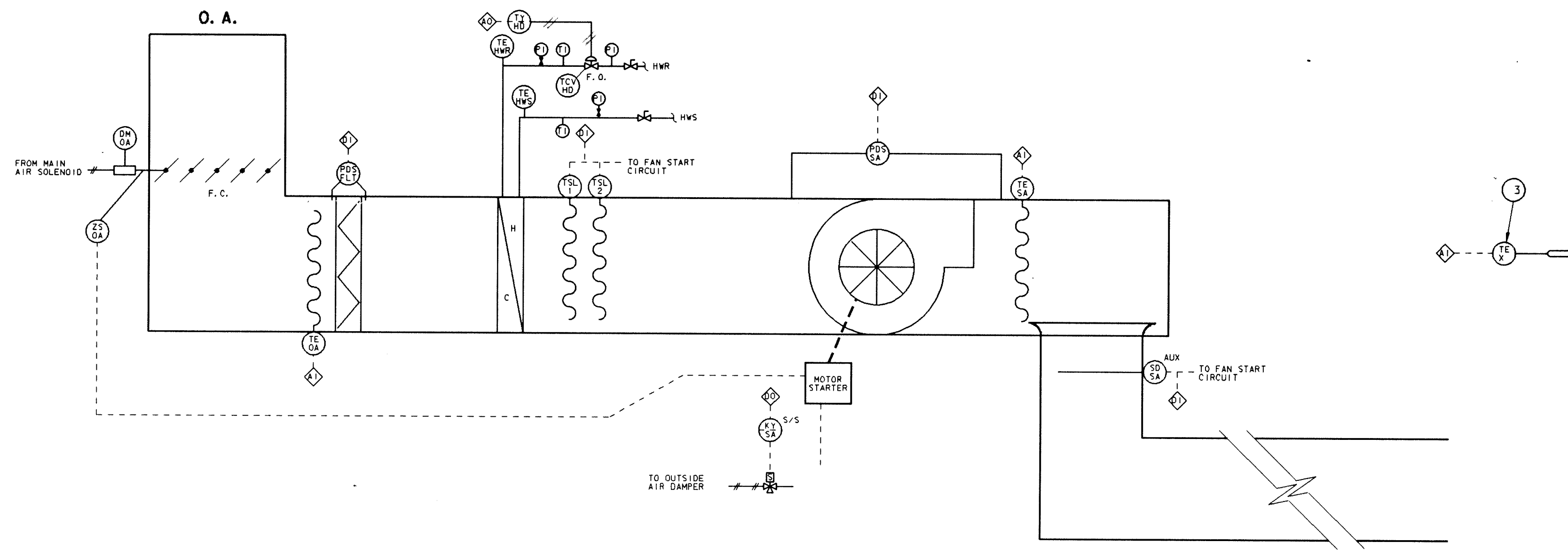
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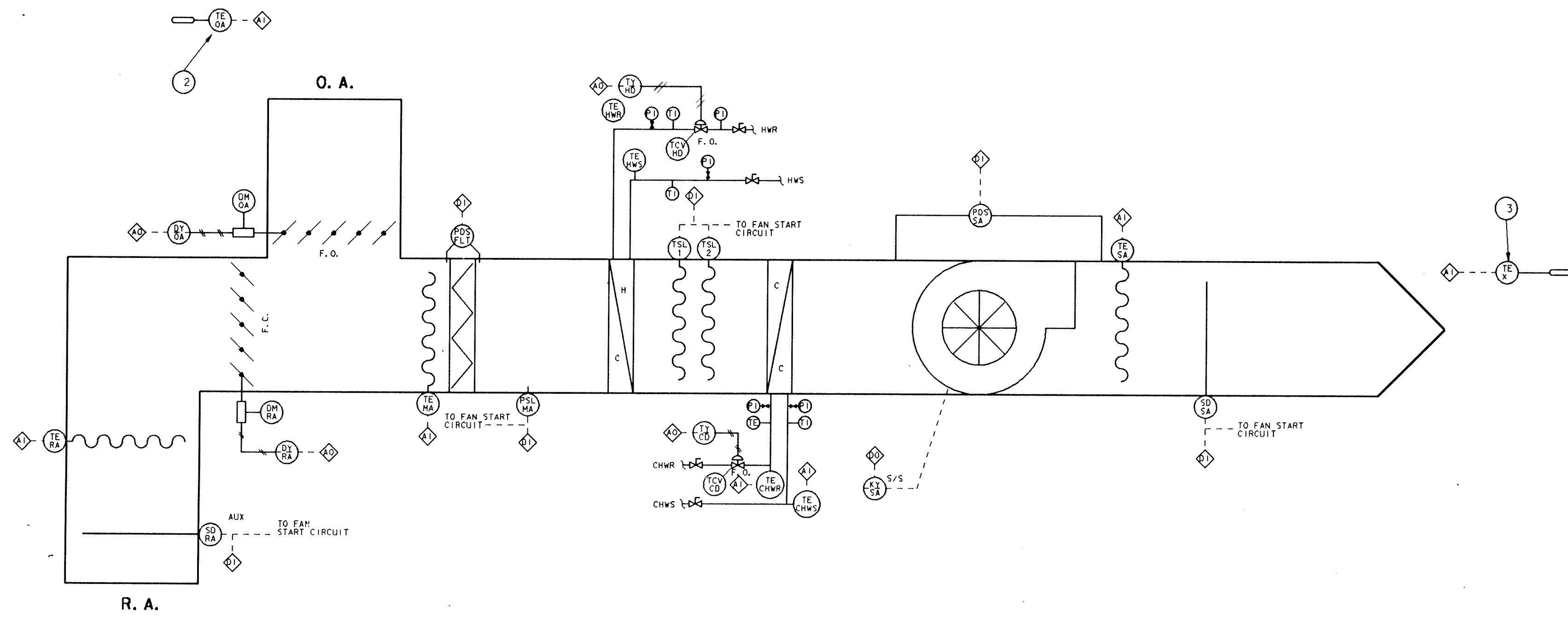
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CONTROL DIAGRAM FOR AHU # 1, 2, 3, 4, 5, 6, 7, 9, 10, 11, 12 & 14
NOT TO SCALE



CONTROL DIAGRAM FOR AHU # 15
NOT TO SCALE

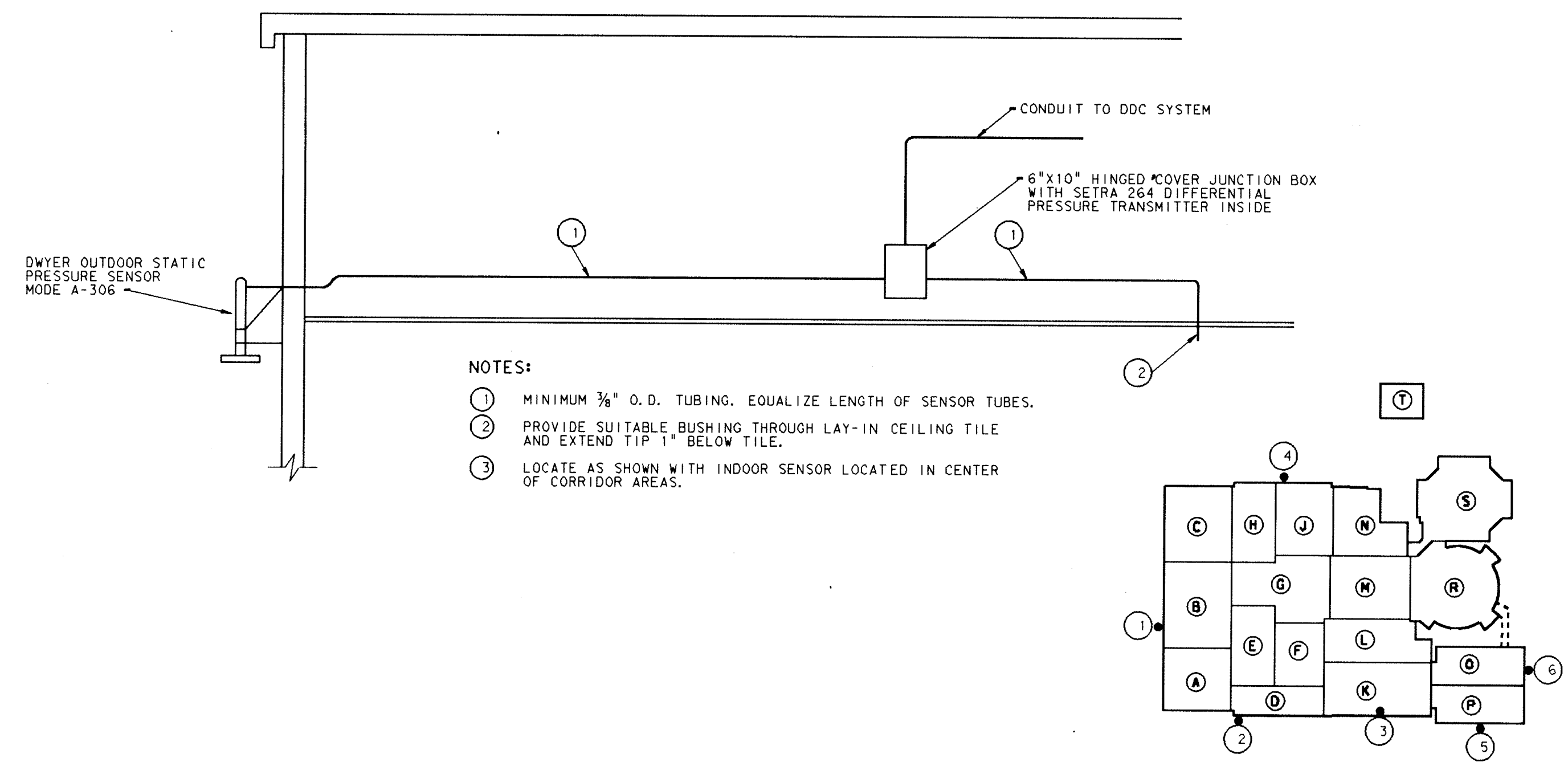


CONTROL DIAGRAM FOR AHU # 13, 16 & 18
NOT TO SCALE

- LEGEND**
- ① FIELD MOUNTED DEVICE
 - ② PANEL MOUNTED DEVICE
 - ◇ ANALOG INPUT
 - ◇ ANALOG OUTPUT
 - ◇ DIGITAL INPUT
 - ◇ DIGITAL OUTPUT

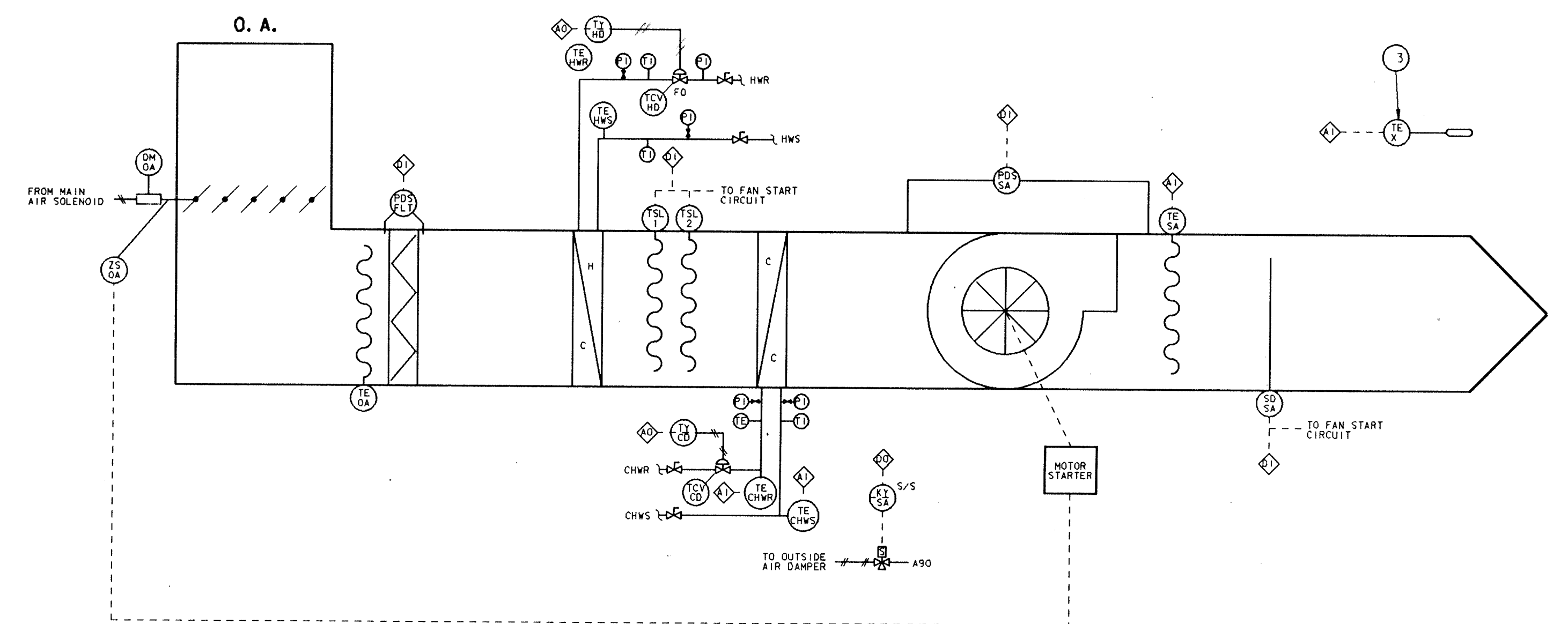
- PLAN NOTES:**
- ① PROVIDE ONE FLOW TRANSMITTER/STATION AND PRESSURE TRANSMITTER FOR EACH MAIN DUCT RUN.
 - ② MOUNTED TO OUTSIDE OF PENTHOUSE.
 - ③ SPACE TEMPERATURE SENSOR NUMBER AND LOCATION AS SHOWN ON DRAWINGS.

- CONTRACT #5: Sheet M6-6:**
- A. Control Diagram for AHU #1,2, 3, 4, 5, 6, 7, 9, 10, 11, 12, and 14: Relocate TSL-1 and TSL-2 downstream of the cooling coil.
 - B. Control Diagram for AHU #13, #16, and #18: Relocate TSL-1 and TSL-2 downstream of the cooling coil.



- NOTES:**
- ① MINIMUM 3/4" O.D. TUBING. EQUALIZE LENGTH OF SENSOR TUBES.
 - ② PROVIDE SUITABLE BUSHING THROUGH LAY-IN CEILING TILE AND EXTEND TIP 1" BELOW TILE.
 - ③ LOCATE AS SHOWN WITH INDOOR SENSOR LOCATED IN CENTER OF CORRIDOR AREAS.

BUILDING STATIC PRESSURE SENSING DETAIL
NOT TO SCALE



CONTROL DIAGRAM FOR AHU # 18
NOT TO SCALE

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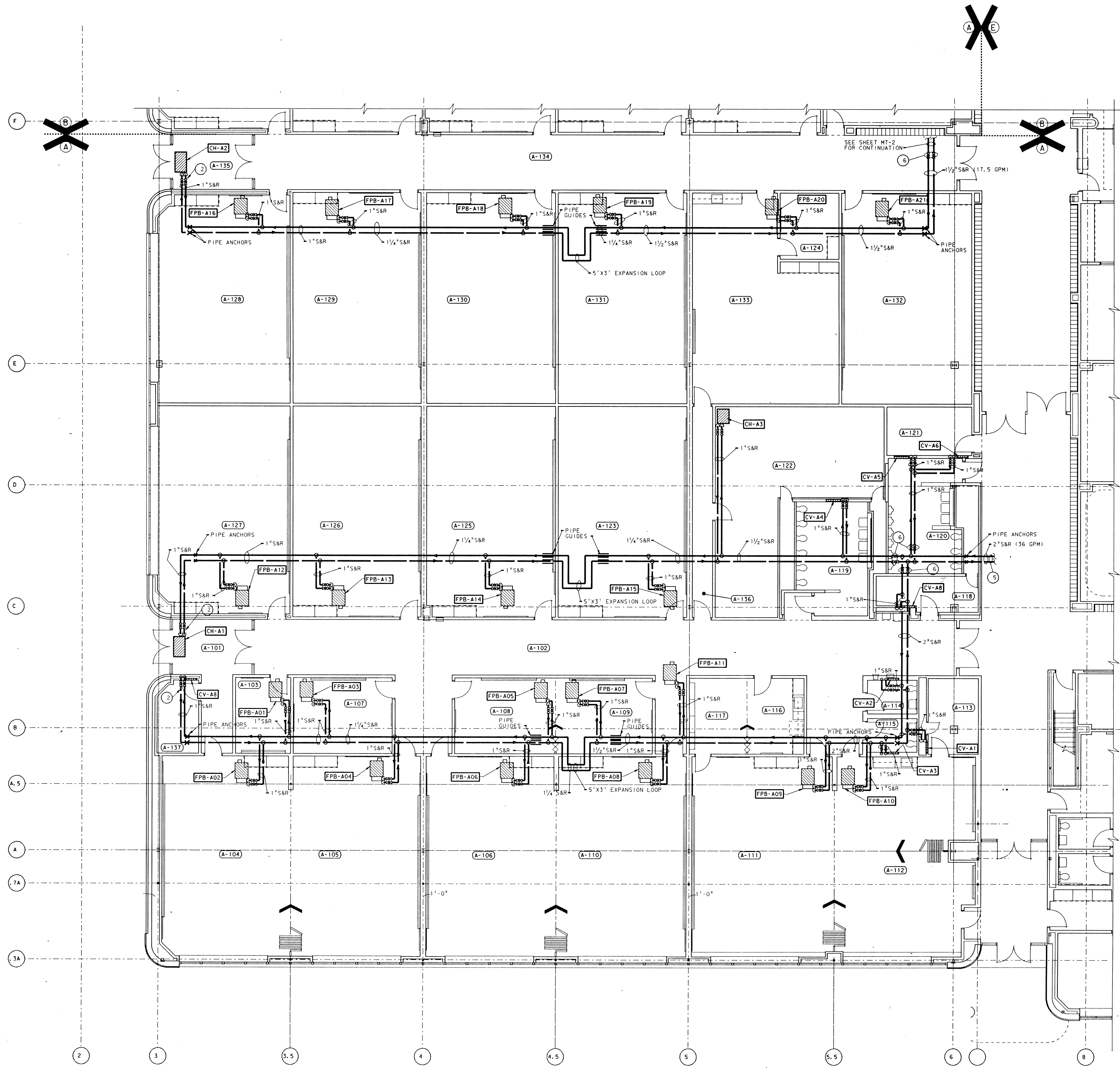
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 Layer: 0

LEG: ROOM SHEET
 REF: 1118 - CORRIDOR
 Level: 1F

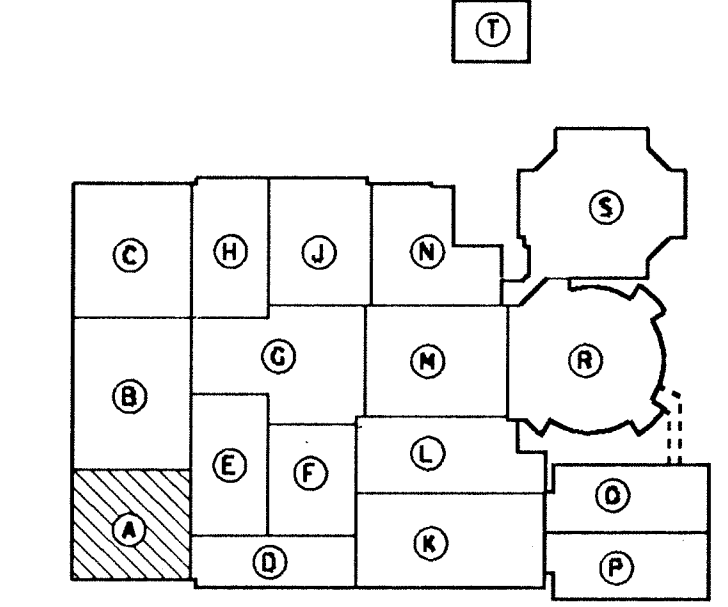
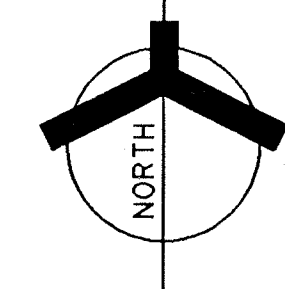
ROOM NAME SCHEDULE

NO	NAME
A-101	VESTIBULE
A-102	CORRIDOR
A-103	SEMINAR
A-104	CLASSROOM
A-105	CLASSROOM
A-106	CLASSROOM
A-107	SEMINAR
A-108	SEMINAR
A-109	SEMINAR
A-110	CLASSROOM
A-111	CLASSROOM
A-112	CLASSROOM
A-113	STORAGE
A-114	TOILET
A-115	TOILET
A-116	CONFERENCE
A-117	OFFICE
A-118	CUSTODIAN
A-119	GIRLS
A-120	BOYS
A-121	STORAGE
A-122	STORAGE
A-123	CLASSROOM
A-124	OFFICE
A-125	CLASSROOM
A-126	CLASSROOM
A-127	CLASSROOM
A-128	CLASSROOM
A-129	CLASSROOM
A-130	CLASSROOM
A-131	CLASSROOM
A-132	CLASSROOM
A-133	OFFICE
A-134	CORRIDOR
A-135	VESTIBULE
A-136	PASSAGE
A-137	SPRINKLER ROOM

- PLAN NOTES:
- SEE SHEET M0-1 THRU M0-5 FOR GENERAL NOTES, LEGEND AND SCHEDULES.
 - PROVIDE 3-WAY CONTROL VALVE FOR ALL FAN POWERED BOXES, CONVECTORS, CABINET HEATERS, AND UNIT HEATERS LOCATED AT THE END OF A PIPING RUN.
 - SEE SHEET M3-1 FOR ASSOCIATED SHEET METAL WORK THIS AREA.
 - SEE SHEET M6-1 FOR TYPICAL PIPING DIAGRAM FOR FAN POWERED BOXES, CONVECTORS, CABINET HEATERS, AND UNIT HEATERS.
 - SEE SHEET M7-4 FOR CONTINUATION OF PIPING.
 - ISOLATION VALVE

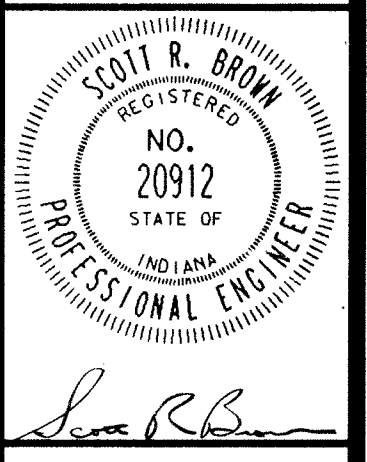


UNIT "A" MISCELLANEOUS PIPING PLAN
SCALE: 1/8" = 1'-0"



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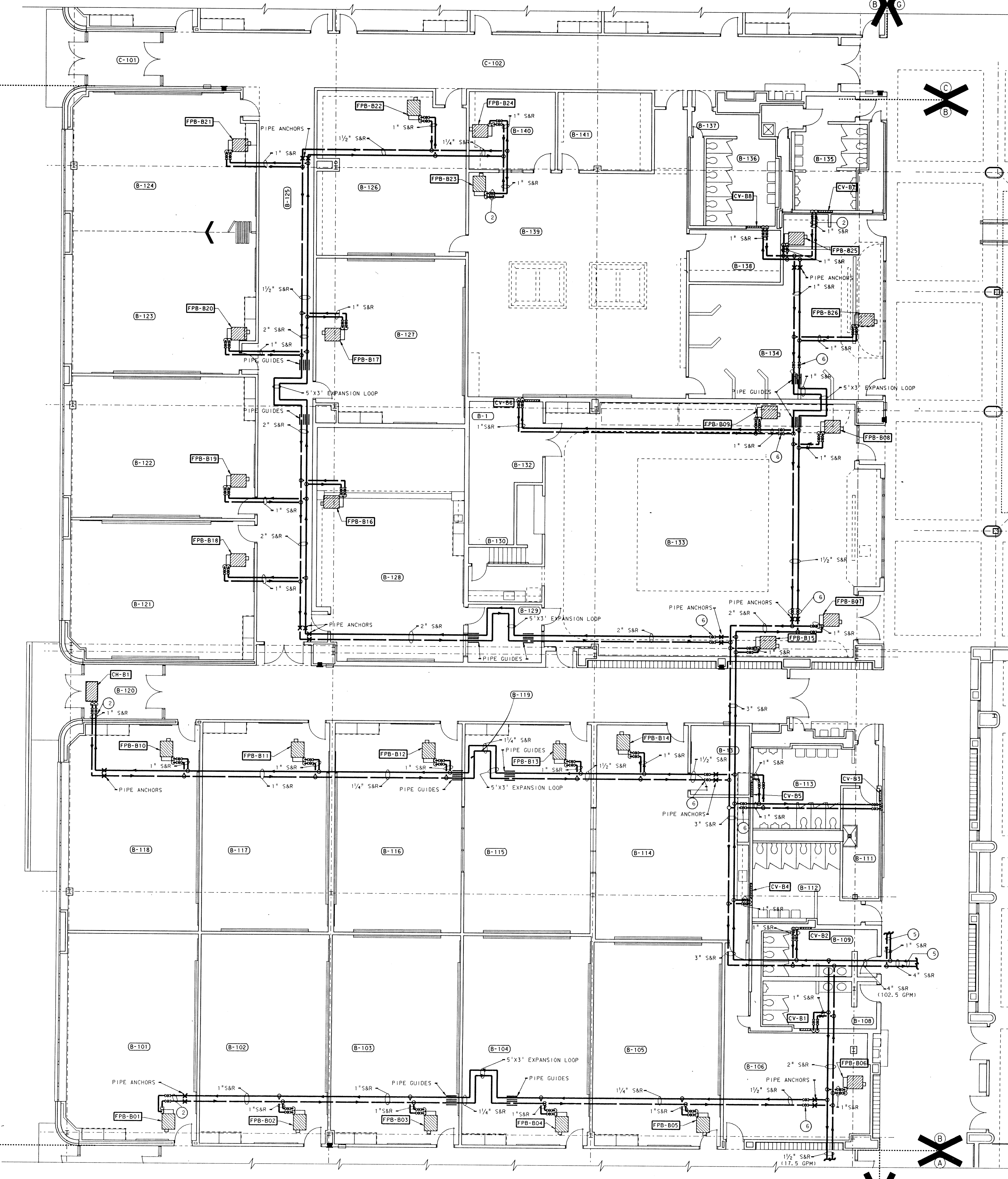
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ROOM NAME SCHEDULE

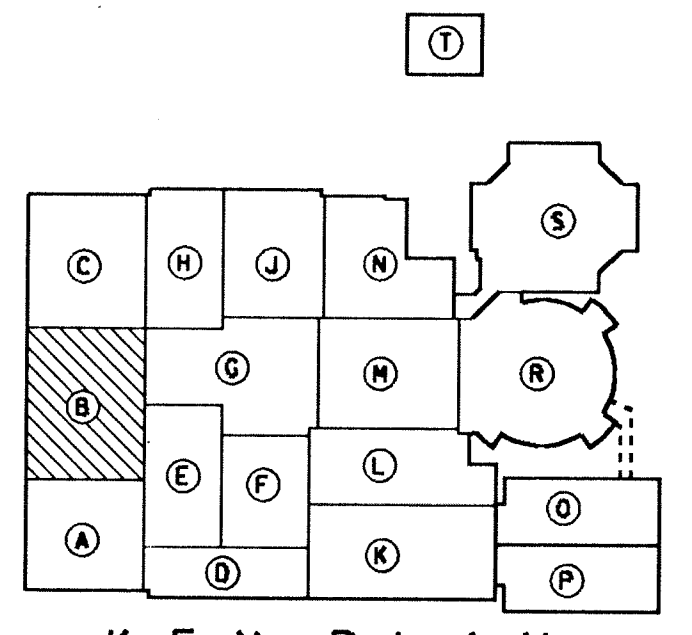
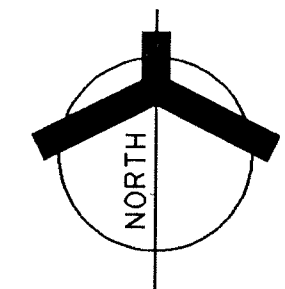
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B-102	CLASSROOM
B-103	CLASSROOM
B-104	CLASSROOM
B-105	CLASSROOM
B-106	STORAGE
B-107	NOT USED
B-108	MEN
B-109	WOMEN
B-110	NOT USED
B-111	CUSTODIAN
B-112	GIRLS
B-113	BOYS
B-114	OFFICE
B-115	CLASSROOM
B-116	CLASSROOM
B-117	CLASSROOM
B-118	CLASSROOM
B-119	CORRIDOR
B-120	VESTIBULE
B-121	CLASSROOM
B-122	CLASSROOM
B-123	CLASSROOM
B-124	CLASSROOM
B-125	CORRIDOR
B-126	CLASSROOM
B-127	CLASSROOM
B-128	CLASSROOM
B-129	OFFICE
B-130	STORAGE
B-131	OFFICE
B-132	EQUIPMENT ALCOVE
B-133	STUDIO THEATER
B-134	ART GALLERY
B-135	BOYS
B-136	GIRLS
B-137	CUSTODIAN
B-138	STORAGE/K.I.L.N.
B-139	ART PAINTING AND SCULPTURING
B-140	OFFICE
B-141	WORK ROOM
B-142	CONTROL BOOTH
B-143	STAGE
B-1	STAIR

- PLAN NOTES:
- SEE SHEET M0-1 THRU M0-5 FOR GENERAL NOTES, LEGEND AND SCHEDULES.
 - PROVIDE 3-WAY CONTROL VALVE FOR ALL FAN POWERED BOXES, CONVECTORS CABINET HEATERS, AND UNIT HEATERS LOCATED AT THE END OF PIPING RUNS.
 - SEE SHEET M3-2 FOR ASSOCIATED SHEET METAL WORK THIS AREA.
 - SEE SHEET M6-1 FOR TYPICAL PIPING DIAGRAM FOR FAN POWERED BOXES, CONVECTORS AND UNIT HEATERS.
 - FOR CONTINUATION OF PIPING SEE SHEET M7-5.
 - ISOLATION VALVE.



UNIT "B" MISCELLANEOUS PIPING PLAN

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



KEY PLAN
NOT TO SCALE

ADDITION TO AND RENOVATION OF
LAWRENCE CENTRAL HIGH SCHOOL
 for the METROPOLITAN SCHOOL DISTRICT of LAWRENCE TOWNSHIP
 MARION COUNTY, INDIANA

VERETT I. Company
EDBROWN
 Architects & Engineers
 950 NORTH MERIDIAN STREET
 SUITE 100
 LAWRENCE, INDIANA 46204
 (317) 237-1000



PROJECT
871-110

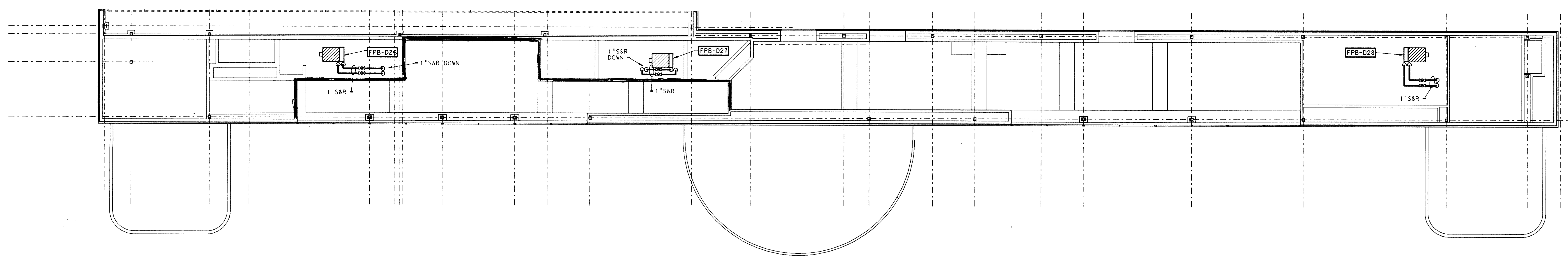
DATE
DEC. 18, 1989

REVISED

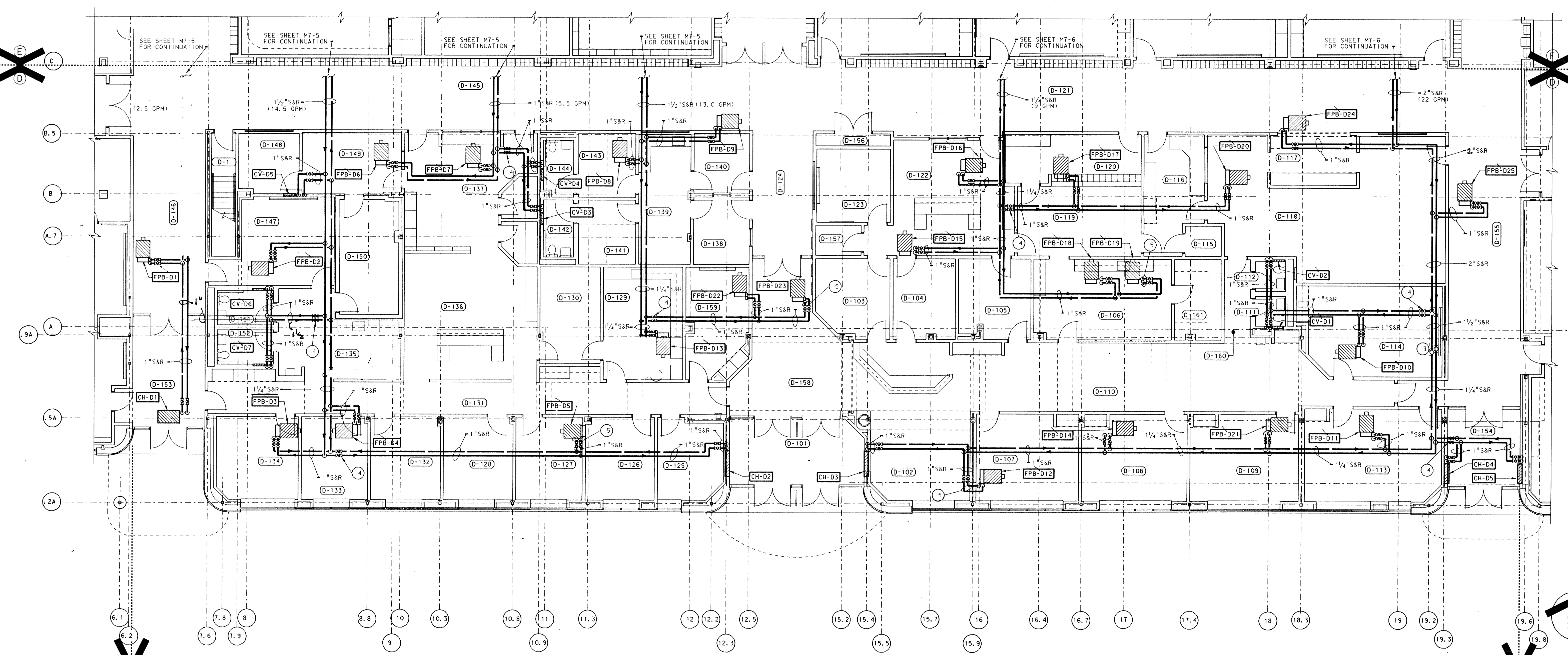
- PLAN NOTES:**
- SEE SHEET M0-1 THRU M0-5 FOR GENERAL NOTES, LEGEND AND SCHEDULES.
 - SEE SHEET M3-4 FOR DUCTWORK AND THERMOSTAT LOCATIONS
 - 1" S&R UP TO HIGH BAY AREA-SEE UPPER BAY FLOOR PLAN THIS SHEET.
 - ISOLATION VALVE
 - PROVIDE 3-WAY CONTROL VALVE FOR ALL FAN POWERED BOXES, CONVECTORS, CABINET HEATERS, AND UNIT HEATERS LOCATED AT THE END OF A PIPING RUN.
 - SEE SHEET M6-1 FOR TYPICAL PIPING DIAGRAMS FOR FAN POWERED BOXES, CONVECTORS, CABINET HEATERS, AND UNIT HEATERS.

ROOM NAME SCHEDULE

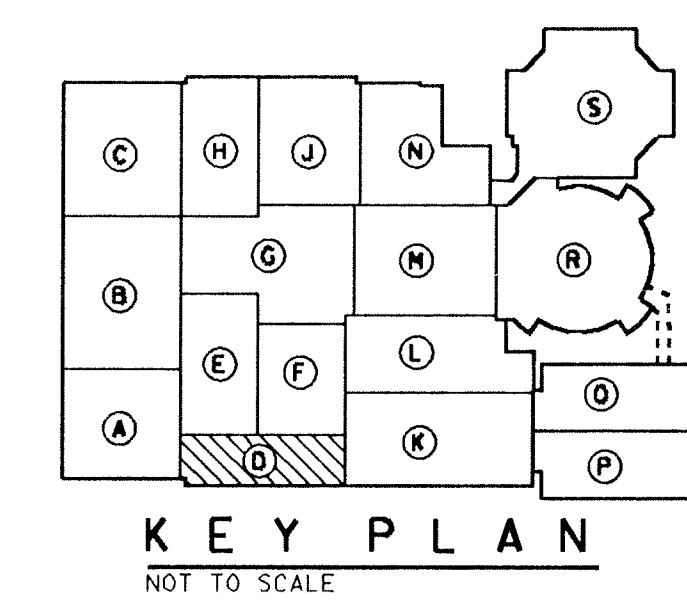
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D-102	WAITING
D-103	OFFICE
D-104	OFFICE
D-105	OFFICE
D-106	WORKROOM
D-107	OFFICE
D-108	OFFICE
D-109	OFFICE
D-110	WORKROOM
D-111	WOMEN
D-112	MEN
D-113	OFFICE
D-114	CONFERENCE
D-115	STORAGE
D-116	OFFICE
D-117	BOOKSTORE
D-118	BOOK STORAGE
D-119	FACULTY
D-120	MAIL
D-121	CORRIDOR
D-122	STUDENT
D-123	CONFERENCE
D-124	CORRIDOR
D-125	OFFICE
D-126	OFFICE
D-127	OFFICE
D-128	OFFICE
D-129	WORKROOM
D-130	OFFICE
D-131	PASSAGE
D-132	OFFICE
D-133	OFFICE
D-134	OFFICE
D-135	ALCOVE
D-136	WAITING
D-137	EXHIBIT SPACE
D-138	WAITING
D-139	CLINIC
D-140	OFFICE
D-141	REST AREA
D-142	TOILET
D-143	REST AREA
D-144	TOILET
D-145	CORRIDOR
D-146	CORRIDOR
D-147	CONFERENCE
D-148	STORAGE
D-149	OFFICE
D-150	RECORDS
D-151	MEN
D-152	WOMEN
D-153	VESTIBULE
D-154	VESTIBULE
D-155	CORRIDOR
D-156	ELECTRICAL
D-157	TIME OUT
D-158	LOBBY
D-159	CONFERENCE
D-160	PASSAGE
D-161	STORAGE
D-1	STAIR



UNIT "D" MISCELLANEOUS PIPING PLAN - UPPER BAY
SCALE: 1/8" = 1'-0"



UNIT "D" MISCELLANEOUS PIPING PLAN
SCALE: 1/8" = 1'-0"



KEY PLAN
NOT TO SCALE

LOG. NAME: COLS
LOG. NAME: UPPER
LOG. NAME: EQUIP

REF. 1114 LCA0001.DWG
LEVEL: 1, 10, 11
LOG. NAME: COLS

REF. 1114 LCA0002.DWG
LEVEL: 1, 10, 11
LOG. NAME: UPPER

REF. 1114 LCA0003.DWG
LEVEL: 1, 10, 11
LOG. NAME: EQUIP

REF. 1114 LCA0004.DWG
LEVEL: 1, 10, 11
LOG. NAME: COLS

REF. 1114 LCA0005.DWG
LEVEL: 1, 10, 11
LOG. NAME: UPPER

REF. 1114 LCA0006.DWG
LEVEL: 1, 10, 11
LOG. NAME: EQUIP

REF. 1114 LCA0007.DWG
LEVEL: 1, 10, 11
LOG. NAME: COLS

REF. 1114 LCA0008.DWG
LEVEL: 1, 10, 11
LOG. NAME: UPPER

REF. 1114 LCA0009.DWG
LEVEL: 1, 10, 11
LOG. NAME: EQUIP

REF. 1114 LCA0010.DWG
LEVEL: 1, 10, 11
LOG. NAME: COLS

REF. 1114 LCA0011.DWG
LEVEL: 1, 10, 11
LOG. NAME: UPPER

REF. 1114 LCA0012.DWG
LEVEL: 1, 10, 11
LOG. NAME: EQUIP

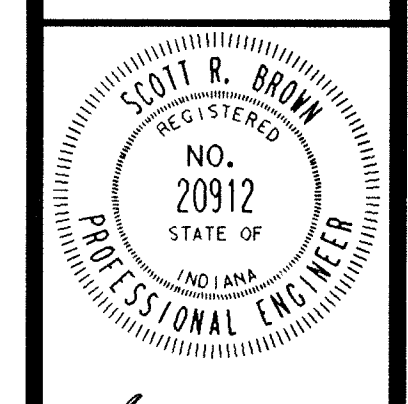
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LOG. NAME: UPPER

REF. 1114 LCA0015.DWG
LEVEL: 1, 10, 11
LOG. NAME: EQUIP

**ADDITION TO and RENOVATION OF
LAWRENCE CENTRAL HIGH SCHOOL**
 for the METROPOLITAN SCHOOL DISTRICT of LAWRENCE TOWNSHIP
 MARION COUNTY, INDIANA

EVERETT I. BROWN Company
Architects & Engineers
 950 NORTH MERIDIAN STREET
 INDIANAPOLIS, INDIANA 46204
 (317) 237-7000



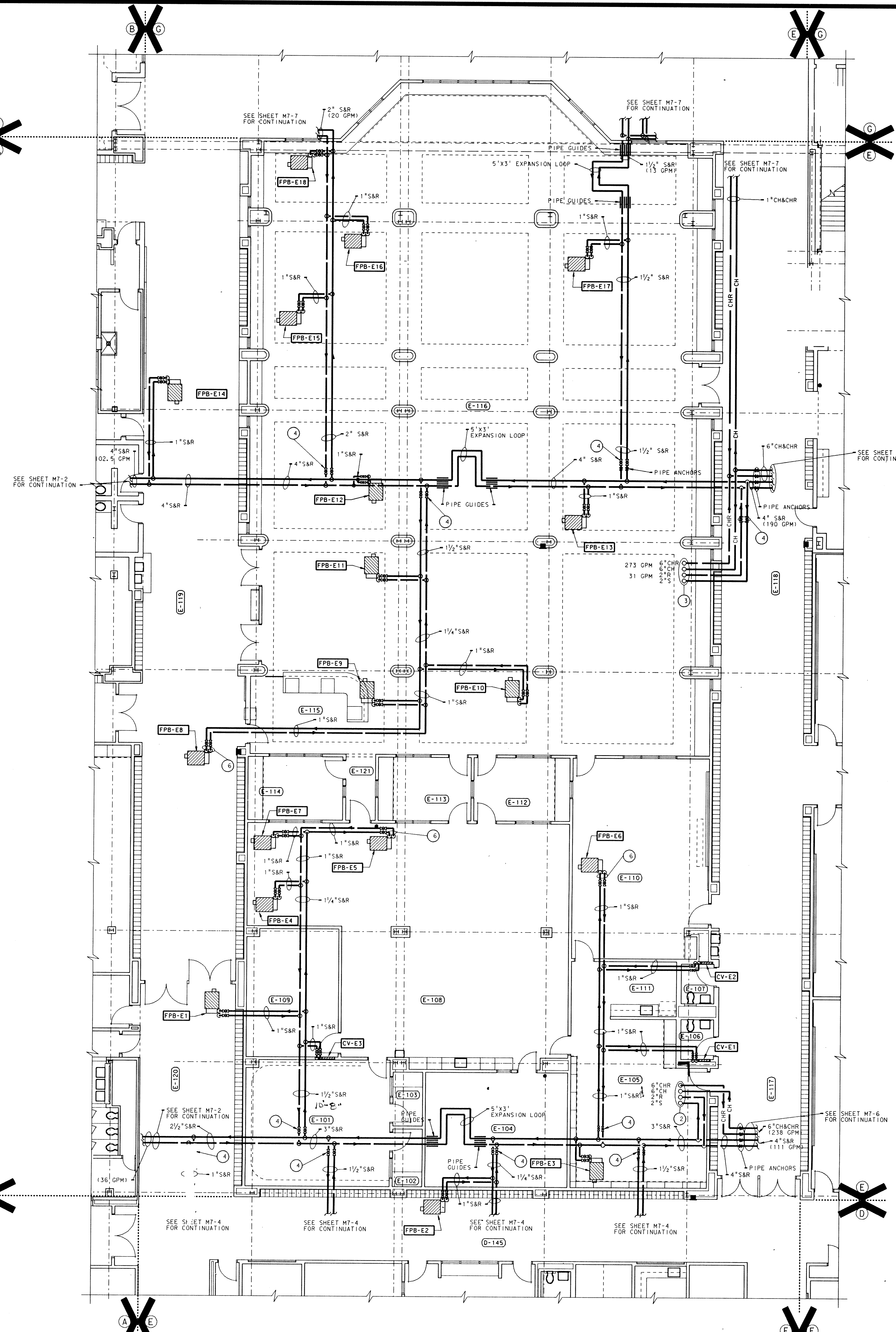
PROJECT
871-110

DATE
DEC. 18, 1989

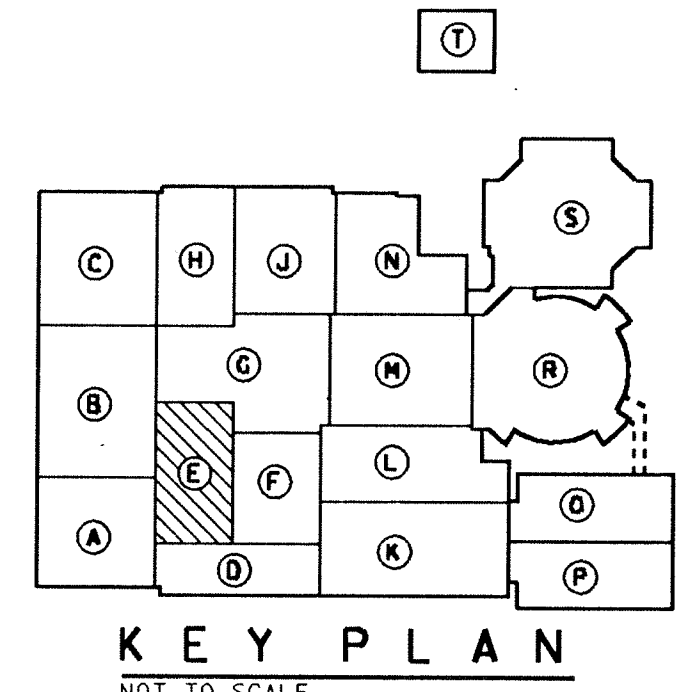
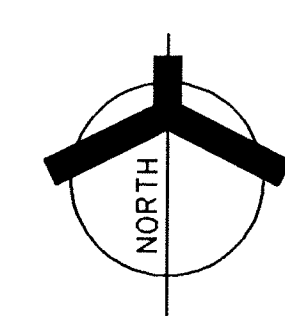
REVISED

- PLAN NOTES:
- SEE SHEET M0-1 THRU M0-5 FOR GENERAL NOTES, LEGEND AND DETAILS.
 - 6"CH & CHR AND 2"S & R UP TO PENTHOUSE. SEE SHEET M5-1 FOR CONTINUATION.
 - 6"CH & CHR AND 2"S & R UP TO PENTHOUSE. SEE SHEET M5-2 FOR CONTINUATION.
 - ISOLATION VALVE
 - SEE SHEET M5-1 FOR TYPICAL PIPING DIAGRAMS FOR FAN POWERED BOXES, CONVECTORS, CABINET HEATERS, AND UNIT HEATERS
 - PROVIDE 3-WAY CONTROL VALVE FOR ALL FAN POWERED BOXES, CONVECTORS, CABINET HEATERS, AND UNIT HEATERS LOCATED AT THE END OF A PIPING RUN.

ROOM NAME SCHEDULE	
NO	NAME
E-101	STUDIO
E-102	CONTROL
E-103	RECORDING
E-104	TELECOMMUNICATIONS
E-105	FACULTY
E-106	TOILET
E-107	TOILET
E-108	WORKROOM
E-109	AUDIO-VISUAL STORAGE
E-110	SEMINAR
E-111	KITCHENETTE
E-112	OFFICE
E-113	OFFICE
E-114	SECRETARY
E-115	DESK
E-116	MEDIA CENTER
E-117	CORRIDOR
E-118	CORRIDOR
E-119	CORRIDOR
E-120	CORRIDOR
E-121	PASSAGE



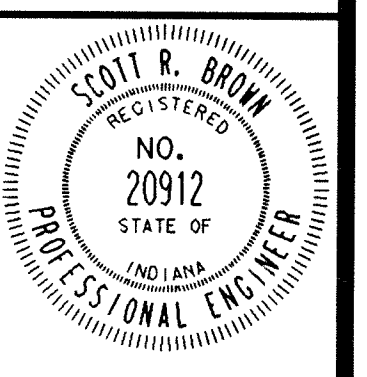
UNIT "E" MISCELLANEOUS PIPING PLAN
SCALE: 1/8" = 1'-0"



KEY PLAN
NOT TO SCALE

ADDITION TO AND RENOVATION OF
LAWRENCE CENTRAL HIGH SCHOOL
 for the METROPOLITAN SCHOOL DISTRICT of LAWRENCE TOWNSHIP
 MARION COUNTY, INDIANA

EVERETT BROWN Company
 Architects & Engineers
 950 NORTH MERIDIAN STREET
 INDIANAPOLIS, INDIANA 46204
 (317) 251-7000



PROJECT
871-110
DATE
DEC. 18, 1989
REVISED

Plot name: M7-6.dwg
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 User: J. EDWARDS

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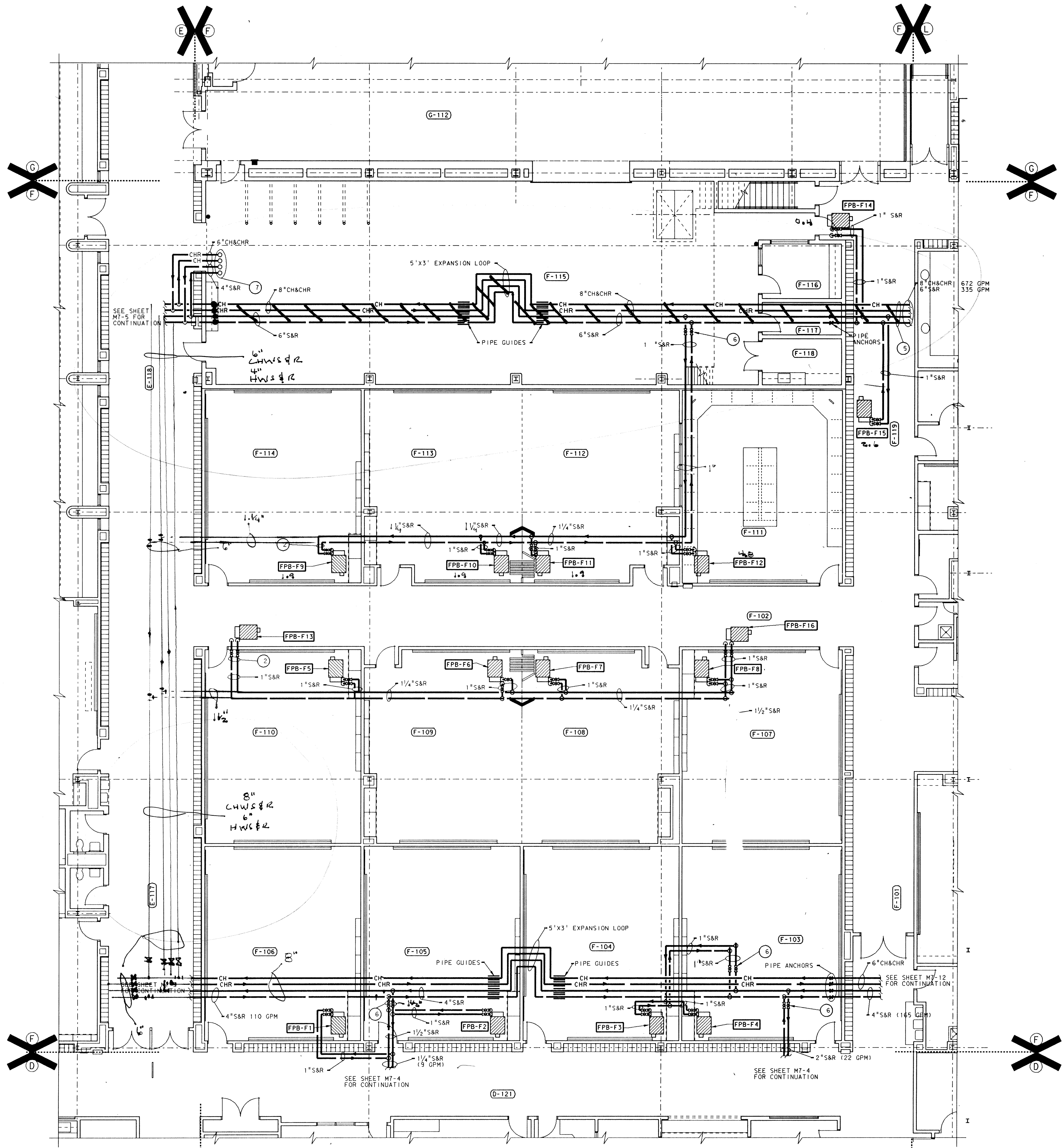
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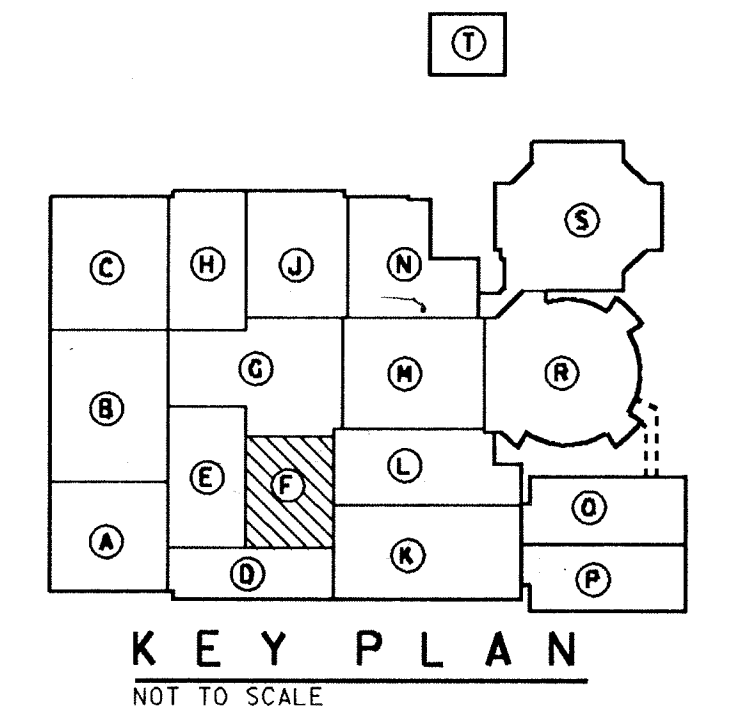
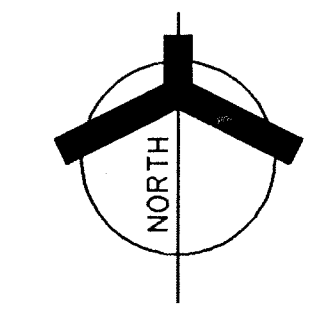
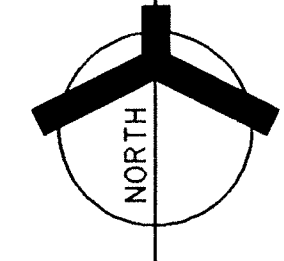
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 Ref: F11y LCBANLOC.DWG Level: 29
 Ref: F11z LCBANLOC.DWG Level: 29

Ref: F11a LCBANLOC.DWG Level: 29
 Ref: F11b LCBANLOC.DWG Level: 29
 Ref: F11c LCBANLOC.DWG Level: 29
 Ref: F11d LCBANLOC.DWG Level: 29
 Ref: F11e LCBANLOC.DWG Level: 29
 Ref: F11f LCBANLOC.DWG Level: 29
 Ref: F11g LCBANLOC.DWG Level: 29
 Ref: F11h LCBANLOC.DWG Level: 29
 Ref: F11i LCBANLOC.DWG Level: 29
 Ref: F11j LCBANLOC.DWG Level: 29
 Ref: F11k LCBANLOC.DWG Level: 29
 Ref: F11l LCBANLOC.DWG Level: 29
 Ref: F11m LCBANLOC.DWG Level: 29
 Ref: F11n LCBANLOC.DWG Level: 29
 Ref: F11o LCBANLOC.DWG Level: 29
 Ref: F11p LCBANLOC.DWG Level: 29
 Ref: F11q LCBANLOC.DWG Level: 29
 Ref: F11r LCBANLOC.DWG Level: 29
 Ref: F11s LCBANLOC.DWG Level: 29
 Ref: F11t LCBANLOC.DWG Level: 29
 Ref: F11u LCBANLOC.DWG Level: 29
 Ref: F11v LCBANLOC.DWG Level: 29
 Ref: F11w LCBANLOC.DWG Level: 29
 Ref: F11x LCBANLOC.DWG Level: 29
 Ref: F11y LCBANLOC.DWG Level: 29
 Ref: F11z LCBANLOC.DWG Level: 29

Ref: F11a LCBANLOC.DWG Level: 29
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 Ref: F11c LCBANLOC.DWG Level: 29
 Ref: F11d LCBANLOC.DWG Level: 29
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 Ref: F11h LCBANLOC.DWG Level: 29
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 Ref: F11k LCBANLOC.DWG Level: 29
 Ref: F11l LCBANLOC.DWG Level: 29
 Ref: F11m LCBANLOC.DWG Level: 29
 Ref: F11n LCBANLOC.DWG Level: 29
 Ref: F11o LCBANLOC.DWG Level: 29
 Ref: F11p LCBANLOC.DWG Level: 29
 Ref: F11q LCBANLOC.DWG Level: 29
 Ref: F11r LCBANLOC.DWG Level: 29
 Ref: F11s LCBANLOC.DWG Level: 29
 Ref: F11t LCBANLOC.DWG Level: 29
 Ref: F11u LCBANLOC.DWG Level: 29
 Ref: F11v LCBANLOC.DWG Level: 29
 Ref: F11w LCBANLOC.DWG Level: 29
 Ref: F11x LCBANLOC.DWG Level: 29
 Ref: F11y LCBANLOC.DWG Level: 29
 Ref: F11z LCBANLOC.DWG Level: 29



UNIT "F" MISCELLANEOUS
 PIPING PLAN
 SCALE: 1/8" = 1'-0"



- PLAN NOTES:
- SEE SHEET M0-1 THRU M0-5 FOR GENERAL NOTES, LEGEND AND SCHEDULES.
 - PROVIDE 3-WAY CONTROL VALVE FOR ALL FAN POWERED BOXES, CONVECTORS, CABINET HEATERS, AND UNIT HEATERS INDICATED.
 - SEE SHEET M3-6 FOR ASSOCIATED SHEET METAL WORK THIS AREA.
 - SEE SHEET M6-1 FOR TYPICAL PIPING DIAGRAM FOR FAN POWERED BOXES, CONVECTORS AND UNIT HEATERS.
 - FOR CONTINUATION OF PIPING SEE SHEET M7-13.
 - ISOLATION VALVE
 - 6" CH & CHR AND 4" S & R UP TO PENTHOUSE. SEE SHEET M5-7 FOR CONTINUATION.

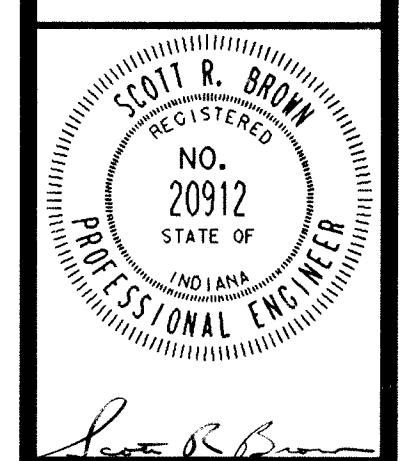
97. CONTRACT #3: 100023 Sheet M7-6:
 A. Relocate the 8 inch Chilled Water Supply and Return Lines and 6 inch Hot Water Supply and Return Lines so that they pass 3'-6" north of the south wall of Rooms F-118 - Paint Storage, and F-115 - Scene Shop.

ROOM NAME SCHEDULE	
NO	NAME
F-101	CORRIDOR
F-102	CORRIDOR
F-103	CLASSROOM
F-104	CLASSROOM
F-105	CLASSROOM
F-106	CLASSROOM
F-107	CLASSROOM
F-108	CLASSROOM
F-109	CLASSROOM
F-110	CLASSROOM
F-111	CLASSROOM
F-112	CLASSROOM
F-113	CLASSROOM
F-114	CLASSROOM
F-115	SCENE SHOP
F-116	OFFICE
F-117	TOOLS
F-118	PAINT STORAGE
F-119	CORRIDOR
F-201	MEZZANINE
F-1	STAIR
F-2	STAIR
F-3	STAIR

ADDITION TO and RENOVATION OF
LAWRENCE CENTRAL HIGH SCHOOL
 for the METROPOLITAN SCHOOL DISTRICT of LAWRENCE TOWNSHIP
 MARION COUNTY, INDIANA

EVERETT I. COMPANY
EDBROWN
 Architects & Engineers

950 NORTH MERIDIAN STREET
 INDIANAPOLIS, INDIANA 46204
 317.421.1000



PROJECT
 871-110

DATE
 DEC. 18, 1989

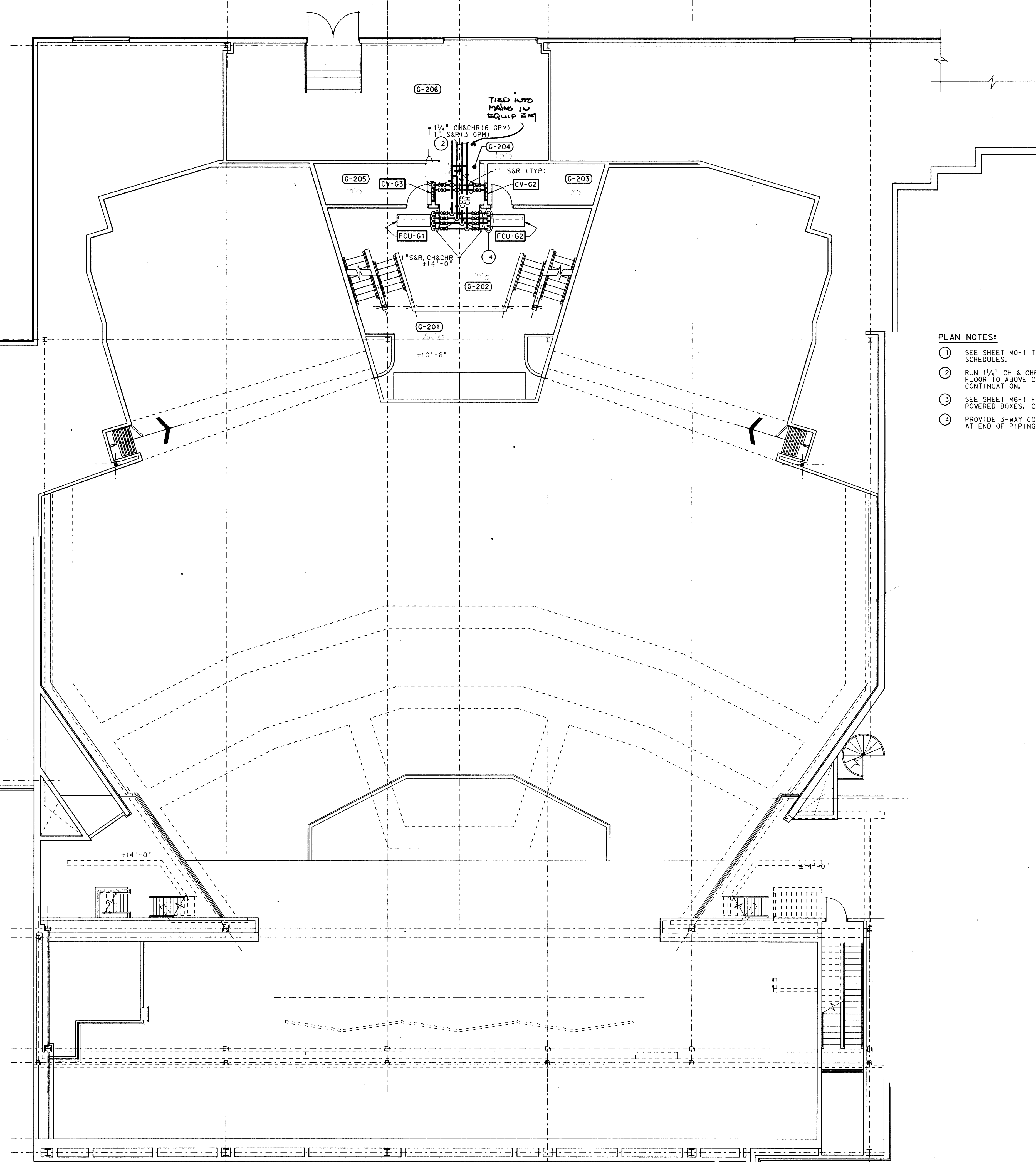
REVISED

ROOM NAME SCHEDULE

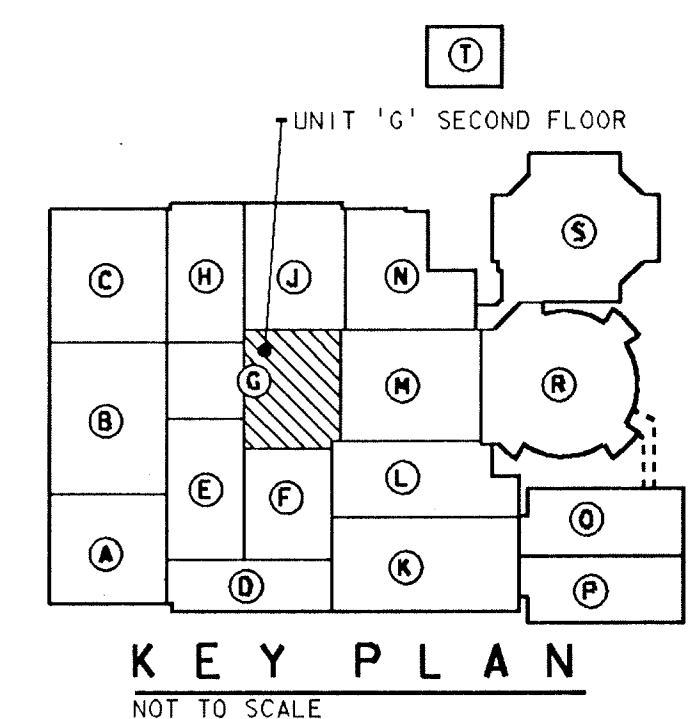
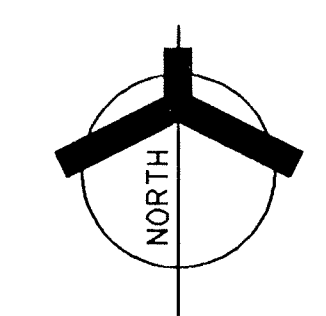
NO	NAME
G-201	LOWER BOOTH
G-202	UPPER BOOTH
G-203	STORAGE
G-204	VESTIBULE
G-205	STORAGE
G-206	MECHANICAL ROOM

PLAN NOTES:

- SEE SHEET M0-1 THRU M0-5 FOR GENERAL NOTES, LEGEND AND SCHEDULES.
- RUN 1/2" CH & CHR, 1" S & R AND 1/2" DRAIN LINES DOWN THRU FLOOR TO ABOVE CEILING IN LOBBY. SEE SHEET M7-7 FOR CONTINUATION.
- SEE SHEET M6-1 FOR TYPICAL PIPING DIAGRAMS FOR FAN POWERED BOXES, CONNECTORS, CABINET HEATERS, AND UNIT HEATERS
- PROVIDE 3-WAY CONTROL VALVES FOR FAN COIL UNIT LOCATED AT END OF PIPING RUN, AS INDICATED.

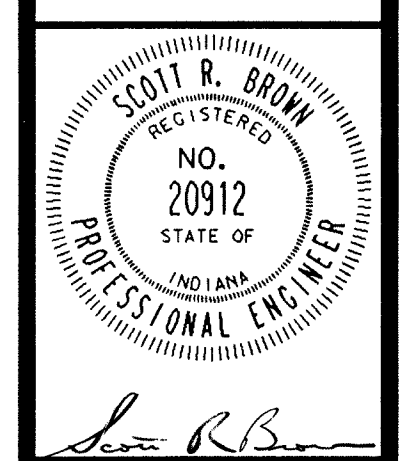


UNIT "G" SECOND FLOOR
MISCELLANEOUS PIPING PLAN
SCALE: 1/8" = 1'-0"



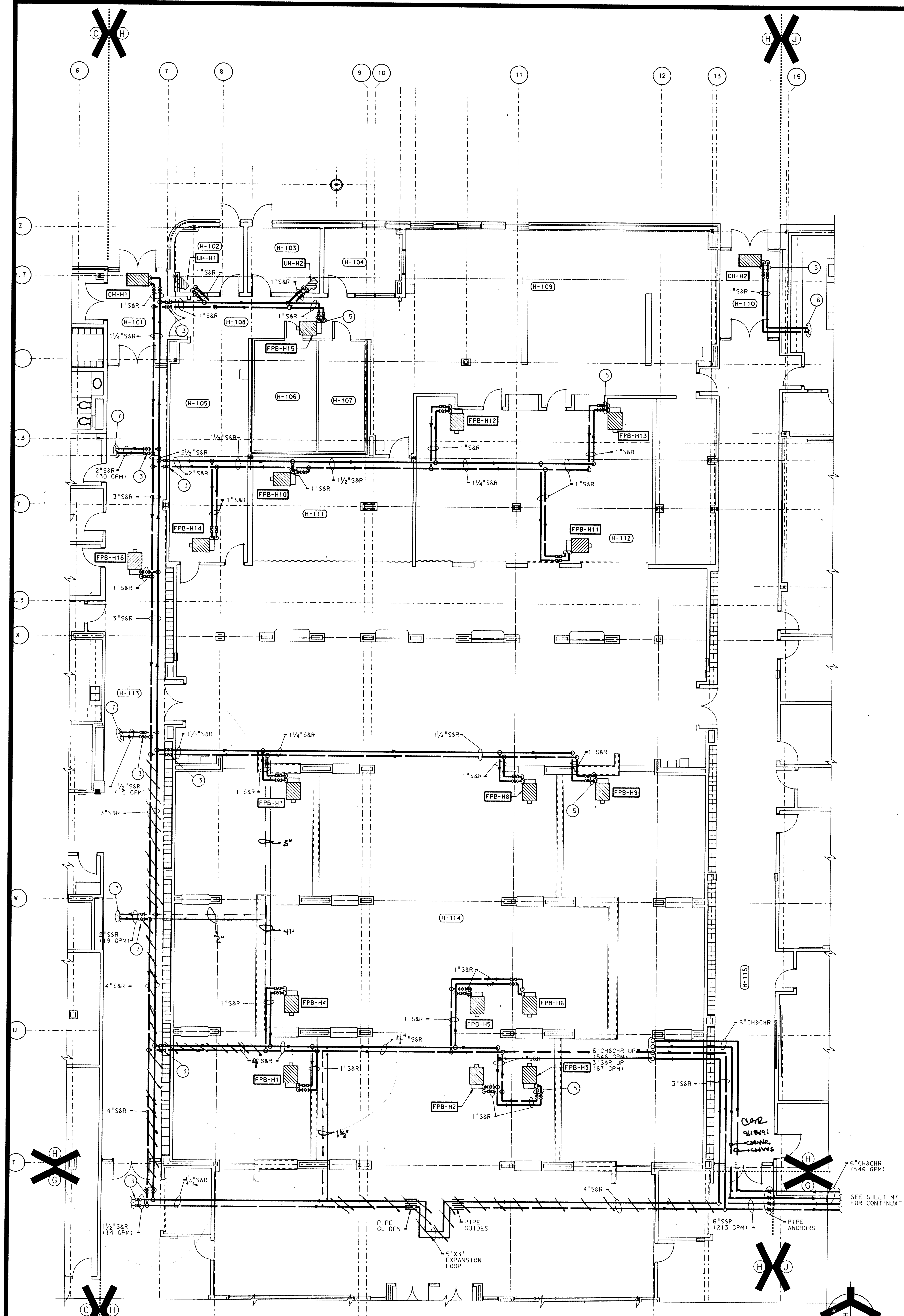
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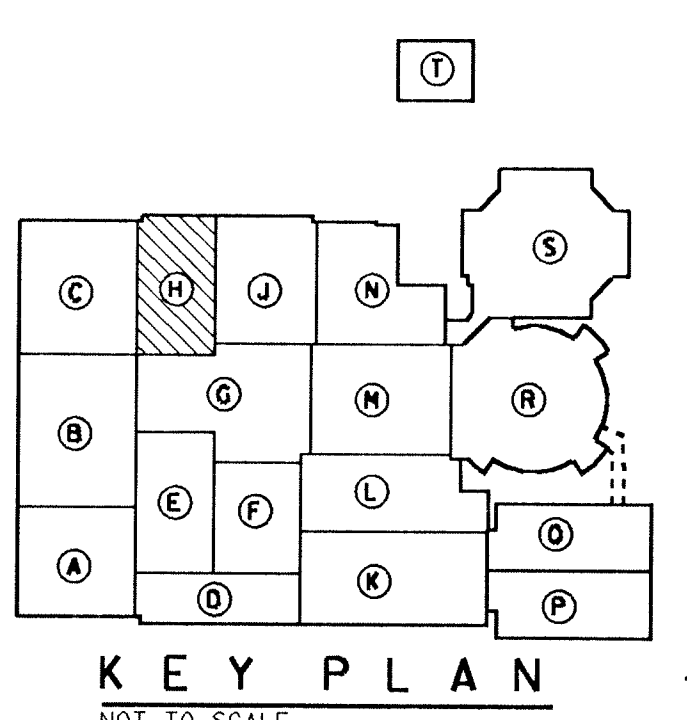


PROJECT
871-110
DATE
DEC. 18, 1989
REVISED

REF. FILE LCMR001.DGN
 Level: 1, 10, 11, 20
 Log. Name: EQUIP
 REF. FILE LCMR001.DGN
 Level: 1, 5, 6, 7
 Log. Name: AD
 REF. FILE LCMR001.DGN
 Level: 1, 5
 Log. Name: EXISTING



UNIT "H" MISCELLANEOUS PIPING PLAN
 SCALE: 1/8" = 1'-0"



- PLAN NOTES:**
- SEE SHEET M0-1 THRU M0-5 FOR GENERAL NOTES, LEGEND AND SCHEDULES.
 - SEE SHEET M3-10 FOR ASSOCIATED DUCTWORK AND THERMOSTATS.
 - ISOLATION VALVES.
 - SEE SHEET M6-1 FOR TYPICAL PIPING DIAGRAMS FOR FAN POWERED BOXES, CONNECTORS, CABINET HEATERS AND UNIT HEATERS.
 - PROVIDE 3-WAY CONTROL VALVE FOR ALL FAN POWERED BOXES, CONNECTORS, CABINET HEATERS AND UNIT HEATERS LOCATED AT THE END OF A PIPING RUN INDICATED.
 - SEE SHEET M7-11 FOR CONTINUATION.
 - SEE SHEET M7-3 FOR CONTINUATION.

98. **CONTRACT #3:** For Unit H Sheet M7-10:
- Relocate the pipe riser shown to the south of Column Line 12U so that they are 4 feet south of Column Line 12U. This is done to avoid the 26 inch cold air duct shown on Sheet M3-10.

ROOM NAME SCHEDULE	
NO	NAME
H-101	VESTIBULE
H-102	TRASH
H-104	RECEIVING
H-104	OFFICE
H-105	WAREWASHING
H-106	FREEZER
H-107	COOLER
H-108	PASSAGE
H-109	KITCHEN
H-110	VESTIBULE
H-111	FAST FOODS
H-112	SERVING
H-113	CORRIDOR
H-114	CAFETERIA
H-115	CORRIDOR

Plot Date: Wed Feb 14 21:28:10 1990
 DWG: C:\EDWG\COM\LA001.DWG
 User: JAC

Ref. Title: LCA001.DWG
 Level: 1-43-1-13
 Ref. Level: 10-13, 15, 20, 24, 26, 30, 32-37
 Ref. Title: LCA0010.DWG
 Level: 13

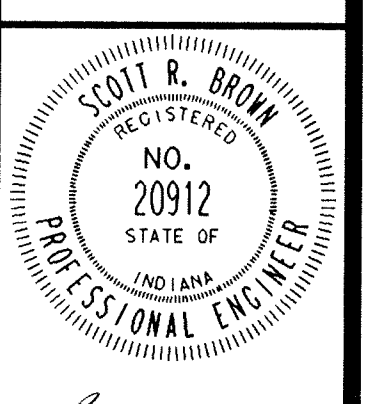
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 Level: 1-43-1-13
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 Ref. Title: LCA0010.DWG
 Level: 13

Ref. Title: LCA001.DWG
 Level: 1-43-1-13
 Ref. Level: 10-13, 15, 20, 24, 26, 30, 32-37
 Ref. Title: LCA0010.DWG
 Level: 13

Ref. Title: LCA001.DWG
 Level: 1-43-1-13
 Ref. Level: 10-13, 15, 20, 24, 26, 30, 32-37
 Ref. Title: LCA0010.DWG
 Level: 13

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 (317) 237-7000



PROJECT
 871-110

DATE
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ROOM NAME SCHEDULE

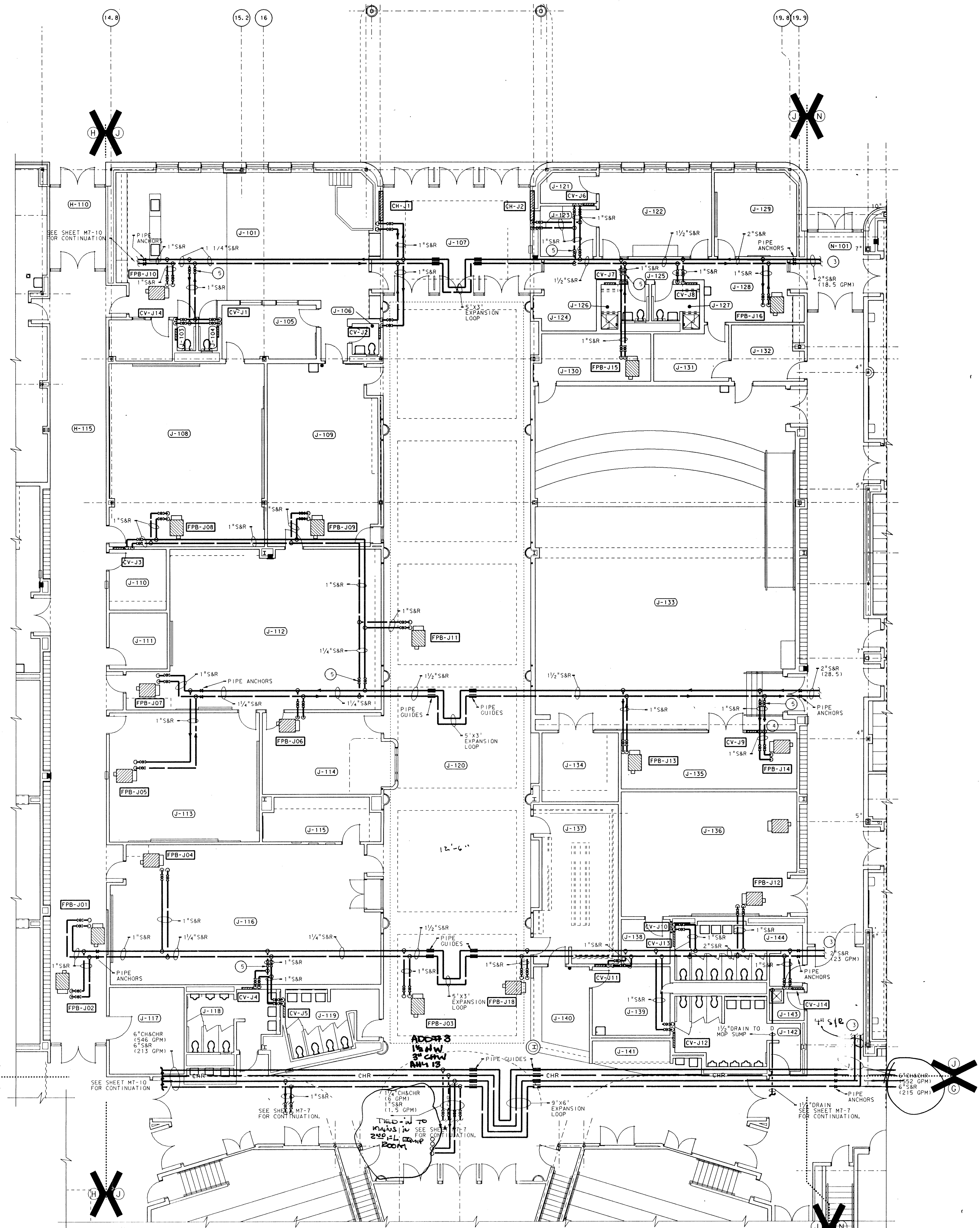
NO	NAME
J-101	HOME ECONOMICS
J-102	OFFICE
J-103	TOILET
J-104	TOILET
J-105	OFFICE
J-106	TOILET
J-107	VESTIBULE
J-108	RECITATION
J-109	CATERING
J-110	STORAGE
J-111	OFFICE
J-112	FOODS LABORATORY
J-113	RECITATION
J-114	LIVING DINING
J-115	DRESSING
J-116	SEWING LABORATORY
J-117	ELECTRICAL
J-118	MEN
J-119	WOMEN
J-120	HALL OF FAME
J-121	STORAGE
J-122	PERFORMING ARTS OFFICE
J-123	BOX OFFICE
J-124	SECRETARY
J-125	PASSAGE
J-126	TOILET
J-127	TOILET
J-128	WORKROOM
J-129	CONFERENCE
J-130	COSTUMES
J-131	MUSIC LIBRARY
J-132	OFFICE
J-133	CHORAL
J-134	PROPS
J-135	PLATFORM STORAGE
J-136	ELECTRONIC MUSIC
J-137	COATS
J-138	STORAGE
J-139	STORAGE
J-140	CONCESSIONS
J-141	VENDING
J-142	BOYS
J-143	CUSTODIAN
J-144	GIRLS

PLAN NOTES:

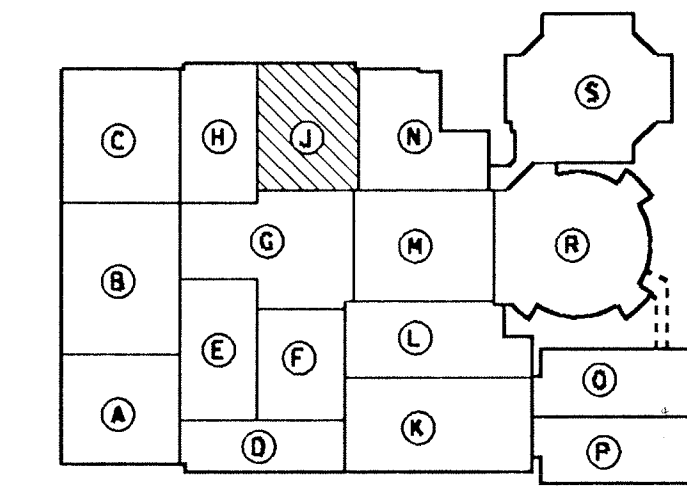
- SEE SHEET M0-1 THRU M0-5 FOR GENERAL NOTES, LEGEND AND SCHEDULES.
- SEE SHEET M3-11 FOR DUCTWORK AND THERMOSTAT LOCATION IN THIS UNIT.
- SEE SHEET M7-15 FOR CONTINUATION.
- 1"SR DOWN TO CONVECTOR WITH SHUT-OFF VALVES IN THE RISERS.
- ISOLATION VALVE

CONTRACTS #3, #5:

- Sheets M7-11:
To Plan Notes add the following reference note:
"6. Provide 3-way control valve for all fan powered boxes, convectors, cabinet heaters, and unit heaters located at the end of a piping run indicated."
- B. Add Reference Note 6 to the following Fan Powered Boxes: FPB-100, FPB-105, and FPB-108.



UNIT "J" MISCELLANEOUS PIPING PLAN
SCALE: 1/8" = 1'-0"



KEY PLAN
NOT TO SCALE

ADDITION TO AND RENOVATION OF
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EVERETT COMPANY
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 950 NORTH MERIDIAN STREET
 INDIANAPOLIS, INDIANA 46204
 (317) 237-7000

NO. M7-11
 OF 22

PROJECT 871-110
 DATE DEC. 18, 1989
 REVISED

REGISTERED PROFESSIONAL ENGINEER
 NO. 20912
 STATE OF INDIANA
 SCOTT R. BROWN

PLAN NOTES:
 ① SEE SHEET M0-1 THRU M0-5 FOR GENERAL NOTES, LEGEND AND SCHEDULES.
 ② SEE SHEET M7-19 FOR CONTINUATION.
 ③ ISOLATION VALVE

CONTRACTS #3, #5: Sheets M7-12:

A. To the Plan Notes, add the following Reference Note #4:
 #4. Provide 3-way control valve for all fan powered boxes, convectors, cabinet heaters, and unit heaters located at the end of a piping run indicated.

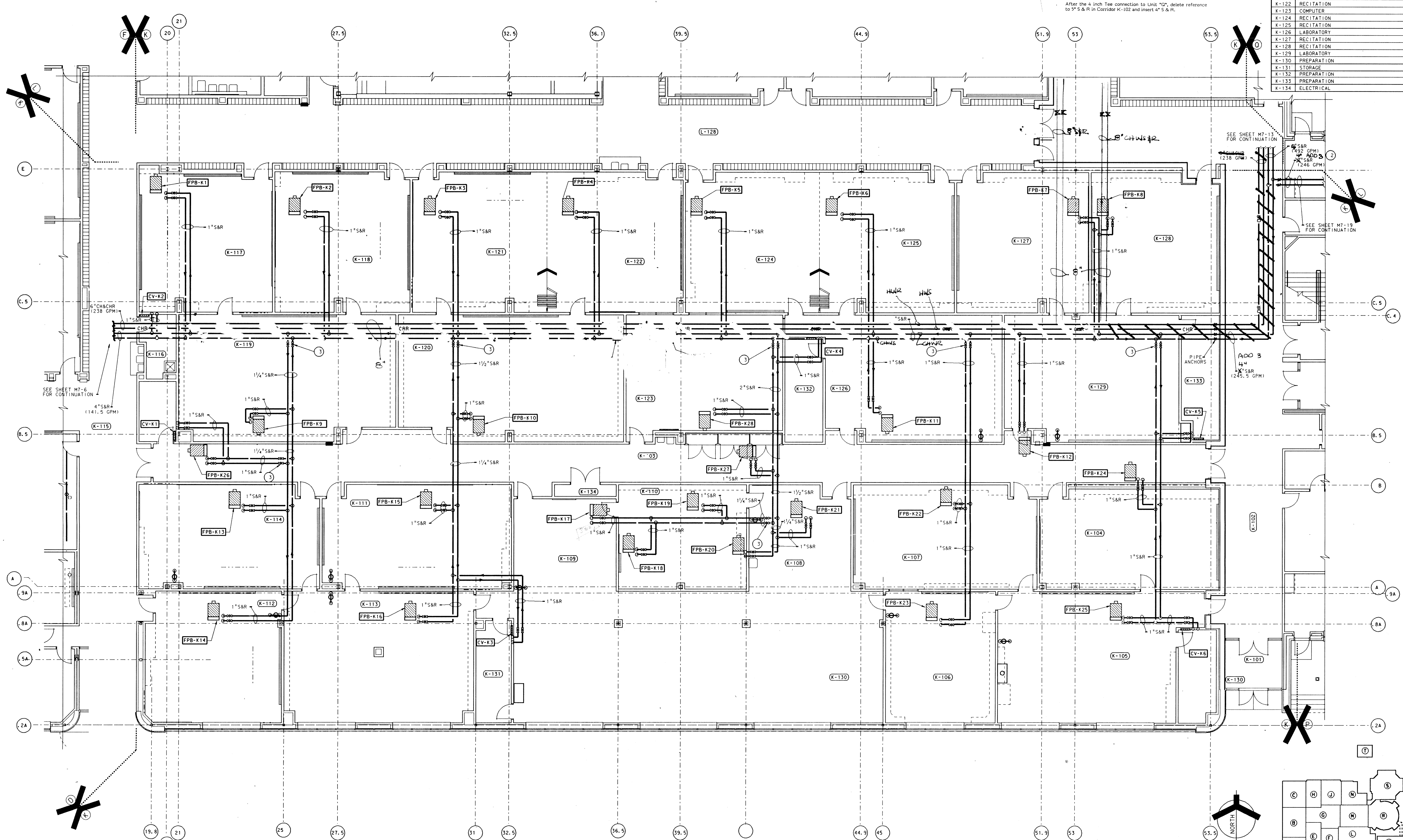
B. In the following rooms add Reference Note Number 4 to the Fan Powered Boxes: K-105, K-106, K-109, and K-122.

CONTRACT #3: Sheet #M7-12:

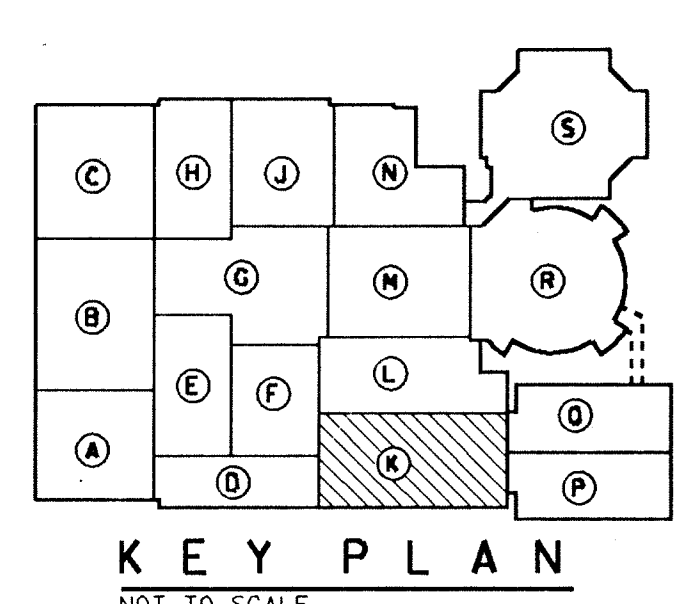
A. Delete the 6 inch hot water supply and return that runs to Unit "G" and insert 4" S & R.
 After the 4 inch Tee connection to Unit "G", delete reference to 2" S & R in Corridor K-102 and insert 4" S & R.

ROOM NAME SCHEDULE

NO	NAME
K-101	VESTIBULE
K-102	CORRIDOR
K-103	CORRIDOR
K-104	RECITATION
K-105	LABORATORY
K-106	PROJECTS
K-107	RECITATION
K-108	PREPARATION
K-109	PREPARATION
K-110	DEPARTMENT OFFICE
K-111	RECITATION
K-112	RECITATION
K-113	LABORATORY
K-114	RECITATION
K-115	STORAGE
K-116	CUSTODIAN
K-117	RECITATION
K-118	RECITATION
K-119	LABORATORY
K-120	LABORATORY
K-121	RECITATION
K-122	RECITATION
K-123	COMPUTER
K-124	RECITATION
K-125	RECITATION
K-126	LABORATORY
K-127	RECITATION
K-128	RECITATION
K-129	LABORATORY
K-130	PREPARATION
K-131	STORAGE
K-132	PREPARATION
K-133	PREPARATION
K-134	ELECTRICAL

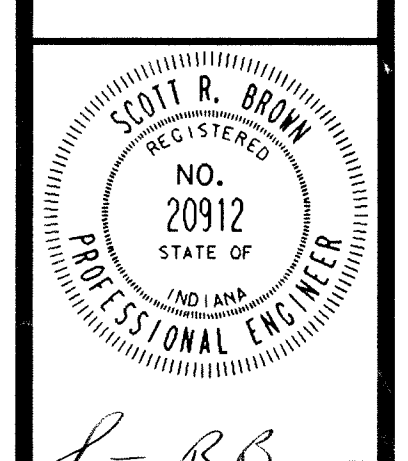


UNIT "K" MISCELLANEOUS PIPING PLAN
 SCALE: 1/8" = 1'-0"



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 Architects & Engineers
 950 NORTH MERIDIAN STREET
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 INDIANAPOLIS, INDIANA 46204
 (317) 521-1000

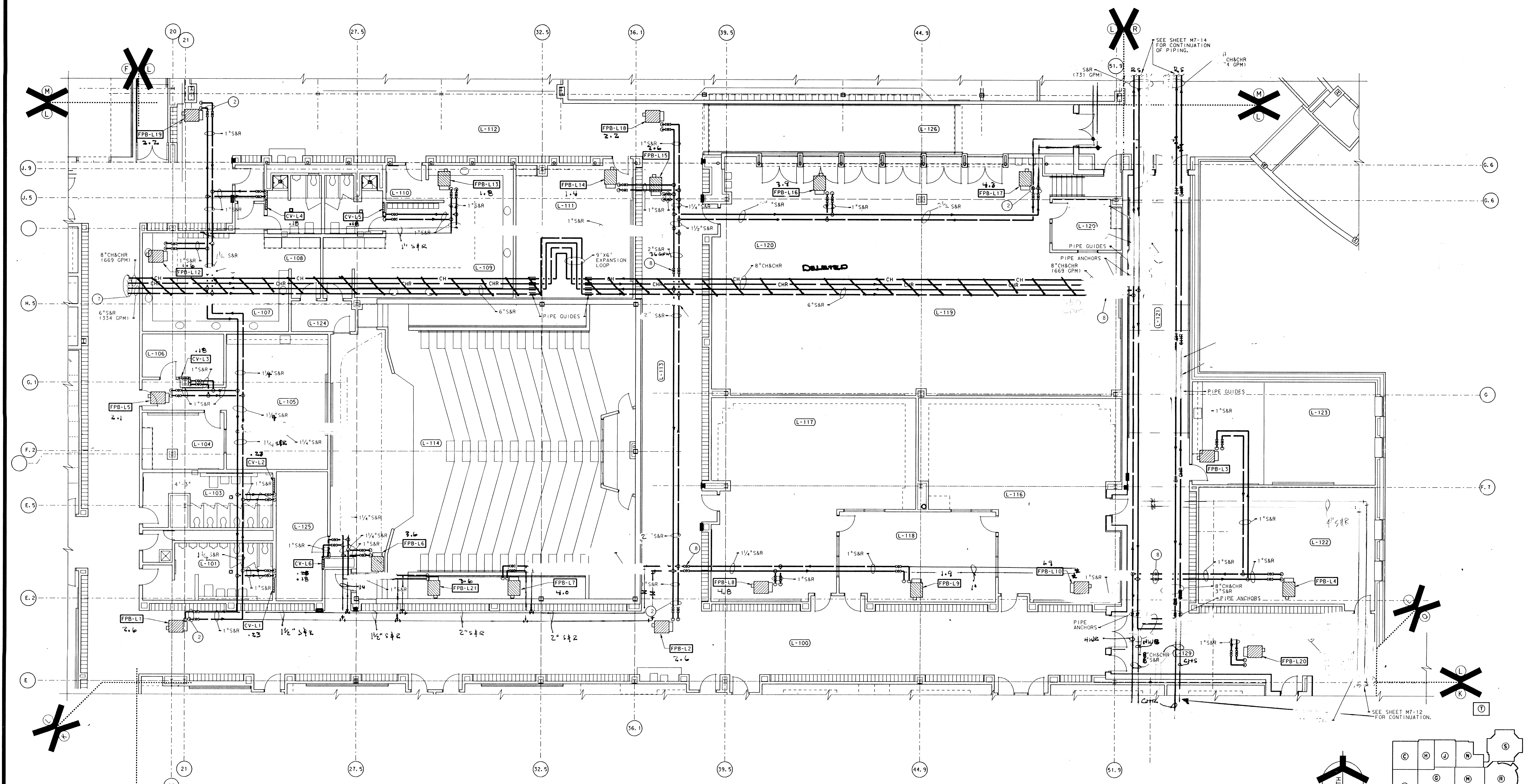


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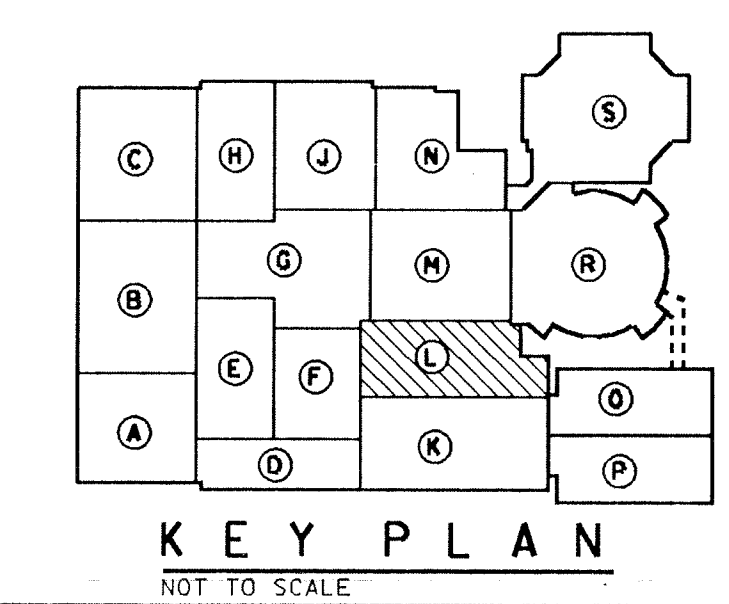
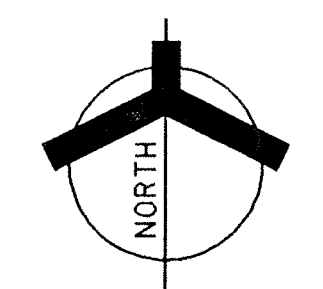
ROOM NAME SCHEDULE	
NO	NAME
L-101	BOYS
L-102	CUSTODIAN
L-103	GIRLS
L-104	OFFICE
L-105	MATH DEPARTMENT WORK ROOM
L-106	STORAGE
L-107	BOYS DRESSING ROOM
L-108	BOYS
L-109	GIRLS DRESSING ROOM
L-110	GIRLS
L-111	STUDENT COUNCIL
L-112	CORRIDOR
L-113	CORRIDOR
L-114	GROUP INSTRUCTION
L-115	CONTROLS
L-116	SCIENCE LABORATORY
L-117	SCIENCE LABORATORY
L-118	COMPUTER
L-119	WEIGHTS
L-120	OFFICE
L-121	CORRIDOR
L-122	GROSS MOTOR SKILLS
L-123	IN-SCHOOL SUSPENSION
L-124	VESTIBULE
L-125	CORRIDOR
L-126	CORRIDOR
L-127	PLATFORM
L-128	CORRIDOR
L-129	STORAGE
L-130	PASSAGE
L-131	PASSAGE

- PLAN NOTES:**
- SEE SHEET M0-1 THRU M0-5 FOR GENERAL NOTES, LEGEND AND SCHEDULES.
 - PROVIDE 3-WAY CONTROL VALVE FOR ALL FAN POWERED BOXES, CONVECTORS AND UNIT HEATERS LOCATED AT THE END OF A PIPE RUN.
 - SEE SHEET M3-13 FOR ASSOCIATED SHEET METAL WORK IN THIS AREA.
 - SEE SHEET M6-1 FOR TYPICAL PIPING DIAGRAM FOR FAN POWERED BOXES, CONVECTORS, AND UNIT HEATERS.
 - PROVIDE EXPANSION COMPESATOR AS MANUFACTURED BY HYSPAN PRECISION PRODUCTS, MODEL 3501-167-4 FOR 8" CHILLED WATER SUPPLY AND RETURN, FOR 3" HOT WATER SUPPLY AND RETURN PROVIDE MODEL 3501-140-6.
 - PROVIDE EXPANSION COMPESATOR AS MANUFACTURED BY HYSPAN PRECISION PRODUCTS, MODEL 3501-167-4 FOR 8" CHILLED WATER SUPPLY AND RETURN, FOR 8" HOT WATER SUPPLY AND RETURN PROVIDE MODEL 3501-167-6.
 - FOR CONTINUATION OF PIPING, SEE SHEET M7-6.
 - ISOLATION VALVES.

- CONTRACTS #3, #5: Sheets M7-13:**
- Add Reference Note 2 to the Following Fan Powered Boxes: FPB-L21, FPB-L13, FPB-L9, and FPB-L3.
 - In Room L-107, Boys Dressing Room, offset the 8 inch Chilled Water Supply and Return Lines 4'-6" south of Column Line H.5. The piping is to be relocated so that it will miss the 40 inch cold air duct located over room F-117 Tool Room. The piping is to run over Room F-118 Paint Storage located in Unit "F".



UNIT "L" MISCELLANEOUS PIPING PLAN
 SCALE: 1/8" = 1'-0"

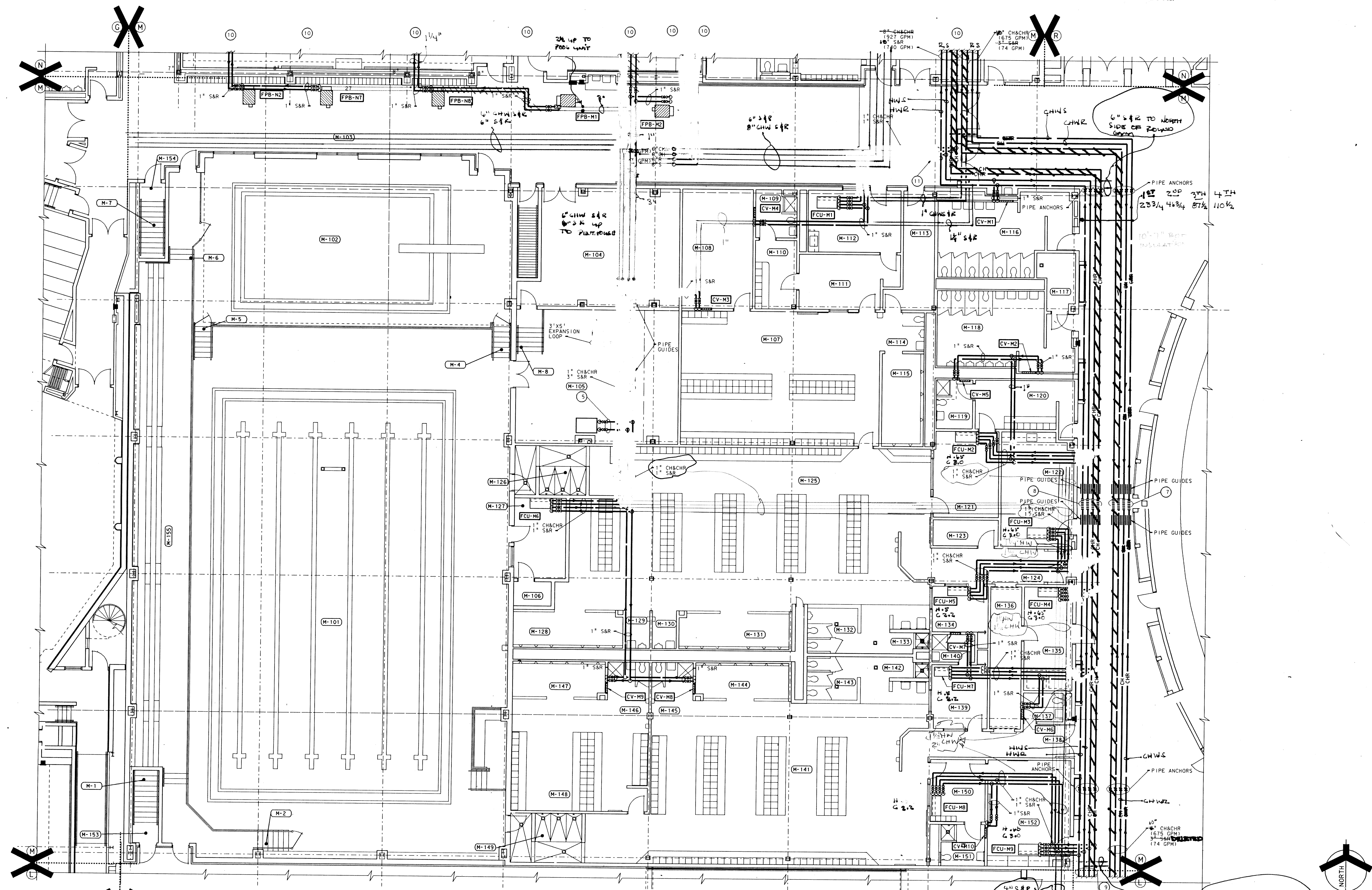


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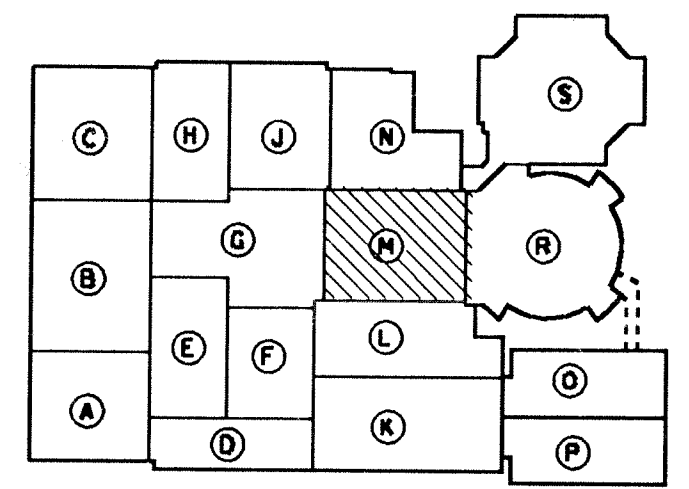
- PLAN NOTES:**
- SEE SHEET M0-1 THRU M0-5 FOR GENERAL NOTES, LEGEND AND SCHEDULES.
 - SEE SHEET M3-14 FOR DUCTWORK LAYOUT AND THERMOSTAT LOCATIONS.
 - 6" CH & CHR UP TO PENTHOUSE.
 - PROVIDE 3-WAY CONTROL VALVES FOR ALL FAN POWERED BOXES, CONVECTORS OR UNIT HEATERS LOCATED AT THE END OF A PIPE RUN.
 - 3" S & R TO PLATE AND FRAME HEAT EXCHANGER FOR POOL WATER HEATING. SEE SHEET M6-3 FOR PLATE AND FRAME HEAT EXCHANGER (HX-1) WATER FLOW DIAGRAM.
 - SEE SHEET M6-1 FOR FAN POWERED BOX, CONVECTOR AND UNIT HEATER TYPICAL PIPING DIAGRAM.
 - PROVIDE EXPANSION COMPENSATOR AS MANUFACTURED BY HYSPAN PRECISION PRODUCTS MODEL 3501-167-4 FOR 8" CHILLED WATER SUPPLY AND RETURN. FOR 3" HOT WATER SUPPLY AND RETURN PROVIDE MODEL 3501-167-6.
 - PROVIDE EXPANSION COMPENSATOR AS MANUFACTURED BY HYSPAN PRECISION PRODUCTS MODEL 3501-167-4 FOR 8" CHILLED WATER SUPPLY AND RETURN. FOR 8" HOT WATER SUPPLY AND RETURN PROVIDE MODEL 3501-167-6.
 - SEE SHEET M7-13 FOR CONTINUATION.
 - SEE SHEET M7-15 FOR CONTINUATION.
 - ISOLATION VALVE

CONTRACTS #3, #5: Sheets M7-14:
 A. Add Reference Note 4 to the following pieces of equipment: FBP-N7, FBP-M1, CV-M8, CV-M4, FCU-M5, FCU-M7, and FCU-M8.

ROOM NAME SCHEDULE	
NO	NAME
M-101	SWIMMING POOL
M-102	DIVING POOL
M-103	CORRIDOR
M-104	MECHANICAL EQUIPMENT
M-105	MECHANICAL EQUIPMENT
M-106	STORAGE
M-107	LOCKER ROOM
M-108	STORAGE
M-109	TOILET
M-110	COACHES LOCKER ROOM
M-111	COACHES
M-112	COACHES LOUNGE
M-113	PASSAGE
M-114	TOILET
M-115	SHOWER
M-116	GIRLS
M-117	CUSTODIAN
M-118	BOYS
M-119	TOILET
M-120	OFFICIALS
M-121	OFFICE
M-122	CONFERENCE
M-123	STORAGE
M-124	PASSAGE
M-125	BOYS LOCKER ROOM
M-126	SHOWER
M-127	OFFICE
M-128	SHOWER
M-129	TOILET
M-130	TOILET
M-131	SHOWER
M-132	TOILET
M-133	SHOWER
M-134	OFFICE
M-135	LAUNDRY
M-136	TOWELS
M-137	TOILET
M-138	PASSAGE
M-139	GIRLS COACHES OFFICE
M-140	TOILET
M-141	GIRLS LOCKER ROOM
M-142	SHOWER
M-143	TOILET
M-144	SHOWER
M-145	TOILET
M-146	TOILET
M-147	SHOWER
M-148	VARSITY LOCKERS
M-149	SHOWER
M-150	GIRLS P.E. OFFICE
M-151	TOILET
M-152	P.E. OFFICE
M-153	PASSAGE
M-154	PASSAGE
M-155	SPECTATOR
M-156	STORAGE
M-1	STAIR
M-2	STAIR
M-3	STAIR
M-4	STAIR
M-5	STAIR
M-6	STAIR
M-7	STAIR



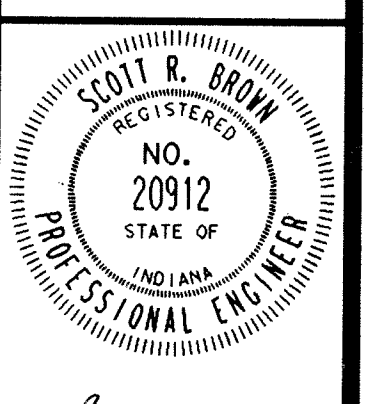
UNIT "M" MISCELLANEOUS PIPING PLAN
 SCALE: 1/8" = 1'-0"



KEY PLAN
 NOT TO SCALE

ADDITION TO AND RENOVATION OF LAWRENCE CENTRAL HIGH SCHOOL
 for the METROPOLITAN SCHOOL DISTRICT of LAWRENCE TOWNSHIP
 MARION COUNTY, INDIANA

EVERETT I. COMPANY
 Architects & Engineers
 950 NORTH MERIDIAN STREET
 INDIANAPOLIS, INDIANA 46204
 (317) 237-7000



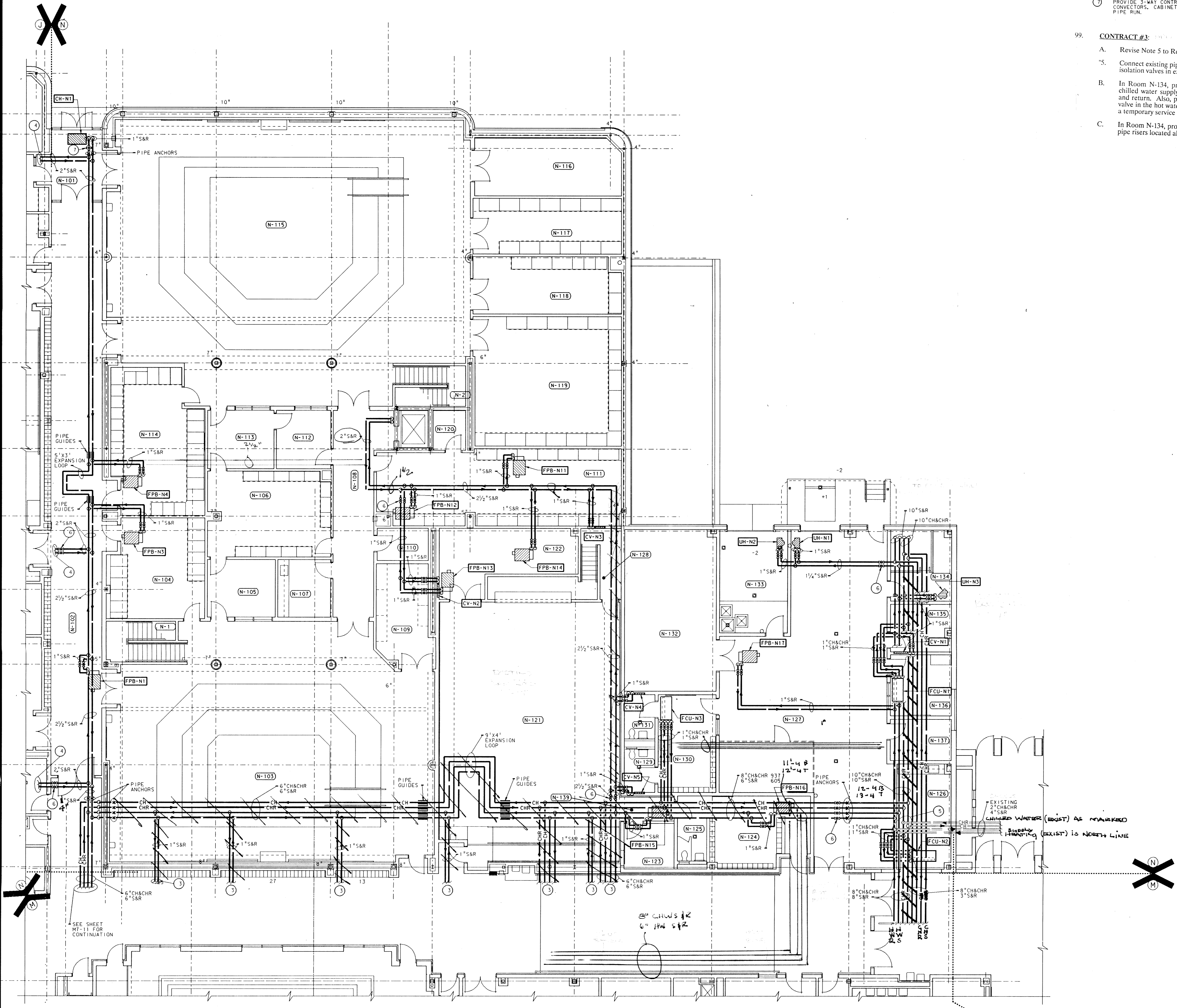
PROJECT 871-110
 DATE DEC. 18, 1989
 REVISED

ROOM NAME SCHEDULE

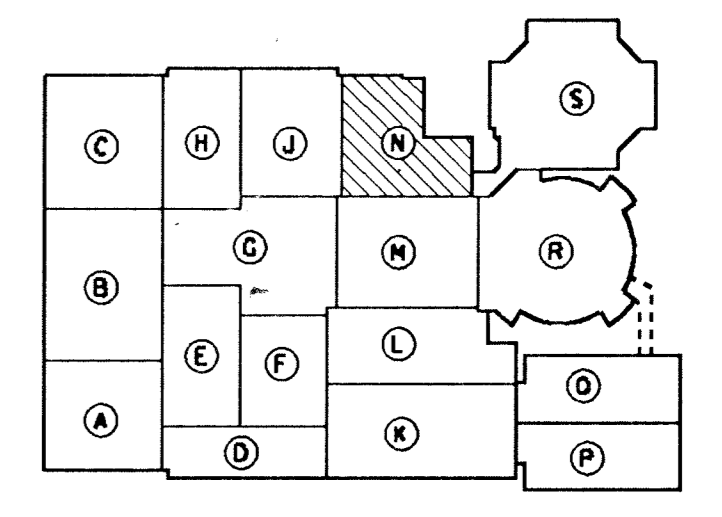
NO	NAME
N-101	VESTIBULE
N-102	CORRIDOR
N-103	ORCHESTRA
N-104	INSTRUMENTS STORAGE
N-105	OFFICE
N-106	MUSIC LIBRARY
N-107	INSTRUMENT REPAIR
N-108	CORRIDOR
N-109	CELLO
N-110	PRACTICE
N-111	UNIFORMS
N-112	OFFICE
N-113	OFFICE
N-114	INSTRUMENTS STORAGE
N-115	BAND
N-116	ENSEMBLE
N-117	LARGE INSTRUMENTS
N-118	PERCUSSION
N-119	UNIFORMS
N-120	ELEVATOR EQUIPMENT
N-121	REHEARSAL
N-122	STORAGE
N-123	OFFICE
N-124	DRESSING
N-125	TOILET
N-126	LOUNGE
N-127	RECEIVING
N-128	PASSAGE
N-129	TOILET
N-130	LOUNGE
N-131	TOILET
N-132	ELECTRICAL
N-133	COMPACTOR
N-134	SPRINKLER ROOM
N-135	TOXIC
N-136	OFFICE
N-137	TELECOMMUNICATIONS
N-138	CORRIDOR
N-139	PASSAGE
N-140	PLATFORM
N-201	ENSEMBLE
N-202	PRACTICE
N-203	KEYBOARD
N-204	PRACTICE
N-205	ENSEMBLE
N-206	ENSEMBLE
N-207	STORAGE
N-208	PASSAGE
N-209	PASSAGE
N-210	PASSAGE
N-211	PASSAGE
N-212	ELEVATOR
N-1	STAIR
N-2	STAIR
N-3	STAIR

- PLAN NOTES:
- SEE SHEET M0-1 THRU M0-5 FOR GENERAL NOTES, LEGEND AND SCHEDULES.
 - SEE SHEET M3-15 FOR DUCTWORK LAYOUT AND THERMOSTAT LOCATIONS.
 - SEE SHEET M7-14 FOR CONTINUATION.
 - SEE SHEET M7-11 FOR CONTINUATION.
 - CONNECT EXISTING PIPING TO NEW AT THIS POINT.
 - ISOLATION VALVE.
 - PROVIDE 3-WAY CONTROL VALVE FOR ALL FAN POWERED BOXES, CONVECTORS, CABINET AND UNIT HEATERS LOCATED END OF PIPE RUN.

99. CONTRACT #3: 1989-1990 Sheet M7-15:
- Revise Note 5 to Read as Follows:
 "5. Connect existing piping to new at this point. Provide new butterfly isolation valves in existing piping."
 - In Room N-134, provide butterfly isolation valves in the 8 inch chilled water supply and return and the 3 inch hot water supply and return. Also, provide a 3 inch Tee connection with isolation valve in the hot water supply and return line. This is to be used as a temporary service to the existing hot water service, if required.
 - In Room N-134, provide isolation butterfly valves in the 4-10 inch pipe risers located along the north wall.



UNIT "N" MISCELLANEOUS PIPING PLAN
 SCALE: 1/8" = 1'-0"



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EVERETT R. BRIN Company
ED CROWN
 Architects & Engineers
 960 NORTH MERIDIAN STREET
 100 JAMFOLD, INDIANAPOLIS, IN 46204



PROJECT
 871-110

DATE
 DEC. 18, 1989

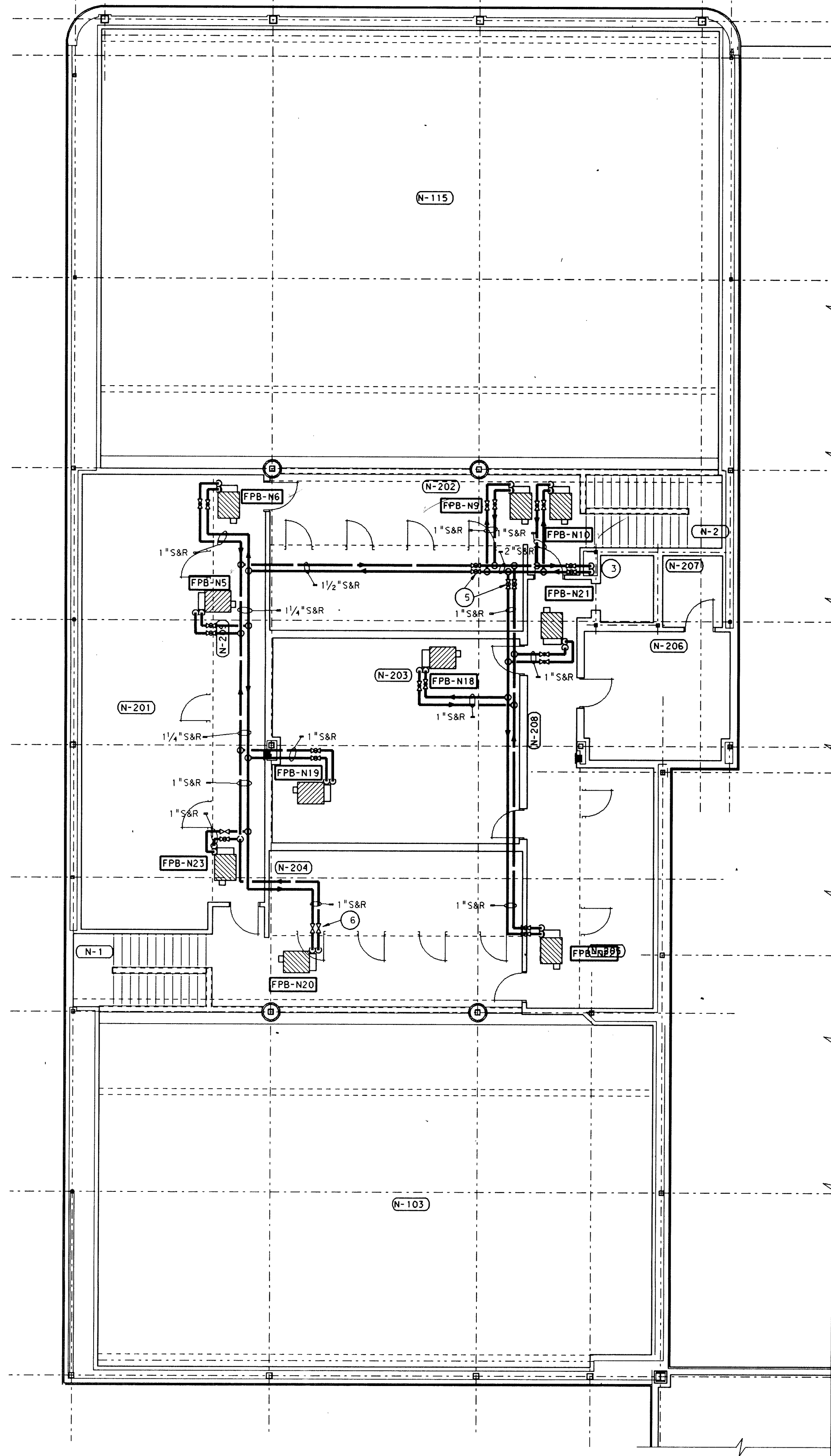
REVISED

PLAN NOTES:

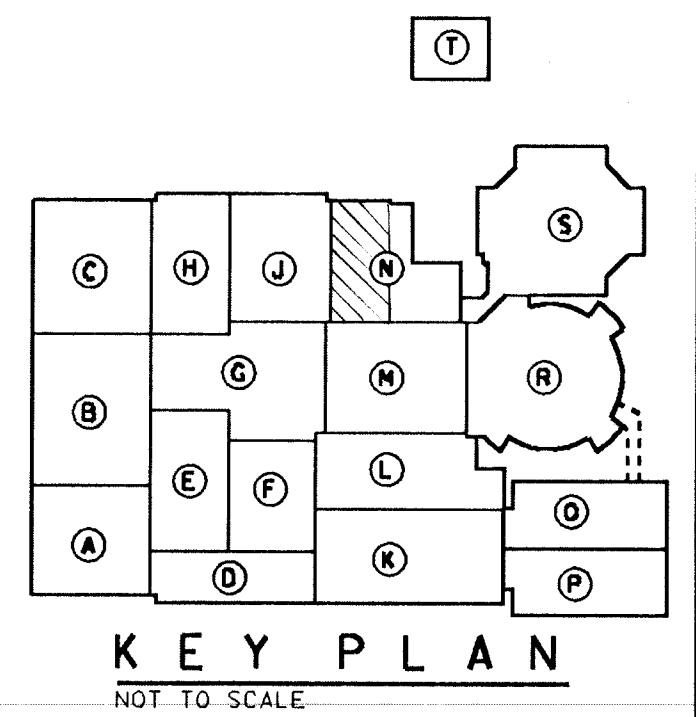
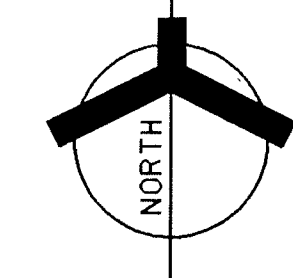
- ① SEE SHEETS M0-1 THRU M0-5 FOR GENERAL NOTES, LEGEND AND SCHEDULES.
- ② SEE SHEET M7-16 FOR DUCTWORK LAYOUT AND THERMOSTAT LOCATIONS.
- ③ 2" S&R DOWN IN CHASE. SEE SHEET M7-15 FOR CONTINUATION.
- ④ SEE SHEET M7-15 FOR ROOM NAME SCHEDULE.
- ⑤ ISOLATION VALVE
- ⑥ PROVIDE 3-WAY CONTROL VALVE FOR ALL FAN POWERED BOXES, CONVECTORS, CABINET AND UNIT HEATERS LOCATED AT THE END OF PIPE RUN.

CONTRACTS #3, #5: Sheets M7-16:

- A. Add Reference Note 6 to FPB-N22 located in the southwest corner of Room N-208.



**UNIT "N" SECOND FLOOR
MISCELLANEOUS PIPING PLAN**
SCALE: 1/8" = 1'-0"



KEY PLAN
NOT TO SCALE

**ADDITION TO and RENOVATION OF
LAWRENCE CENTRAL HIGH SCHOOL**
 for the METROPOLITAN SCHOOL DISTRICT of LAWRENCE TOWNSHIP
 MARION COUNTY, INDIANA

EVERETT L. EDGEMOND Company
Edgemon & Engineers
 Architects & Engineers
 950 NORTH MERIDIAN STREET
 INDIANAPOLIS, INDIANA 46204
 (317) 237-1000

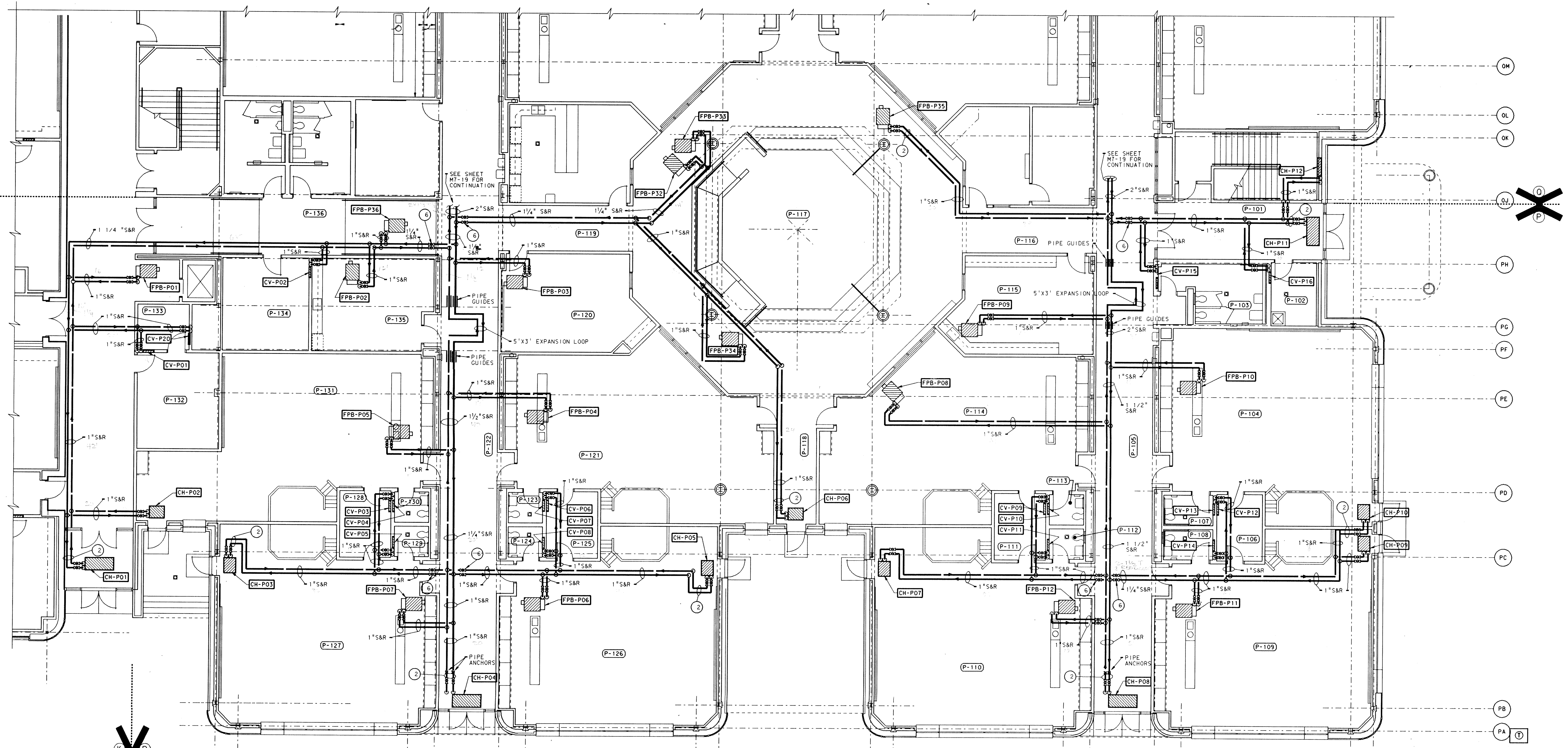


PROJECT
871-110
DATE
DEC. 18, 1989
REVISED

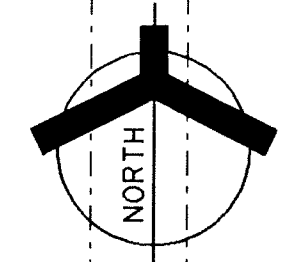
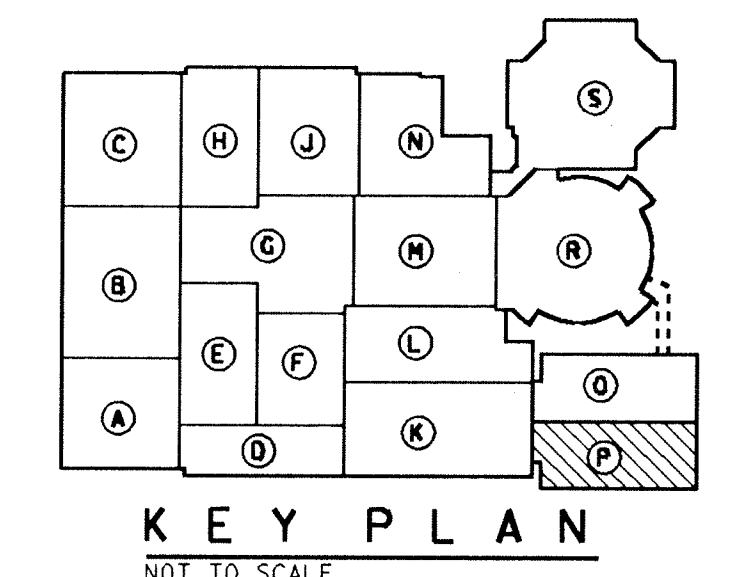
Plot name: 871-110-15-2118270-1989
 Date: 12/18/89
 Level: 1-15
 Plot: 115
 Level: 1-15
 Plot: 115
 Level: 1-15
 Plot: 115
 Level: 1-15

- PLAN NOTES:
- SEE SHEETS M0-1 THRU M0-5 FOR GENERAL NOTES, LEGEND AND SCHEDULES.
 - PROVIDE 3-WAY CONTROL VALVE FOR ALL FAN POWERED BOXES, CONVECTORS AND CABINET HEATERS LOCATED AT THE END OF A PIPING RUN AS INDICATED.
 - NOT USED.
 - SEE SHEET M3-17 FOR ASSOCIATED SHEET METAL WORK THIS AREA.
 - SEE SHEET M6-1 FOR TYPICAL PIPING DIAGRAM FOR FAN POWERED BOXES, CONVECTORS AND CABINET HEATERS.
 - ISOLATION VALVES.

ROOM NAME SCHEDULE	
NO	NAME
P-101	VESTIBULE
P-102	CUSTODIAN
P-103	WOMEN
P-104	KINDERGARTEN
P-105	CORRIDOR
P-106	STORAGE
P-107	TOILET
P-108	TOILET
P-109	KINDERGARTEN
P-110	KINDERGARTEN
P-111	STORAGE
P-112	TOILET
P-113	TOILET
P-114	KINDERGARTEN
P-115	WORK AREA
P-116	CORRIDOR
P-117	COMMONS
P-118	PASSAGE
P-119	CORRIDOR
P-120	CONFERENCE
P-121	KINDERGARTEN
P-122	CORRIDOR
P-123	TOILET
P-124	TOILET
P-125	STORAGE
P-126	KINDERGARTEN
P-127	KINDERGARTEN
P-128	STORAGE
P-129	TOILET
P-130	TOILET
P-131	KINDERGARTEN
P-132	CUSTODIAN
P-133	RAMP
P-134	STORAGE
P-135	TEACHERS LOUNGE & WORK AREA
P-136	CORRIDOR



UNIT "P" MISCELLANEOUS PIPING FIRST FLOOR PLAN
 SCALE: 1/8" = 1'-0"



Plot Name: P-136-17-11-13-1389
 Title: UNIT "P" MISCELLANEOUS PIPING FIRST FLOOR PLAN
 Level: 1-13

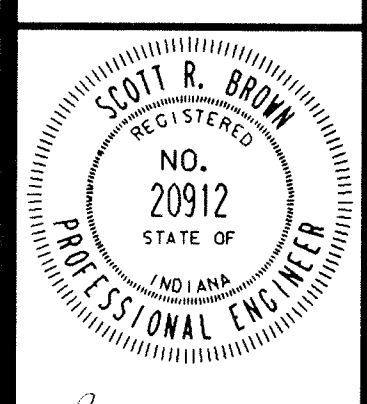
Log. Name: EQUIP
 Log. Number: 50
 Log. Name: LSP
 Log. Number: 10P

Ref. Title: LCCARDP.DWG
 Level: 1-5-13
 Ref. Title: LCCARDP.DWG
 Level: 1-5-13

Log. Name: SHEET
 Log. Number: 0K
 Log. Name: ENG
 Log. Number: 1-13

ADDITION TO AND RENOVATION OF LAWRENCE CENTRAL HIGH SCHOOL
 for the METROPOLITAN SCHOOL DISTRICT of LAWRENCE TOWNSHIP
 MARION COUNTY, INDIANA

EVERETT I. Company
EDDROWN
 Architects & Engineers
 950 NORTH MERIDIAN STREET
 350 ANCHOR INDIANA 46204
 (317) 237-7000



PROJECT
871-110

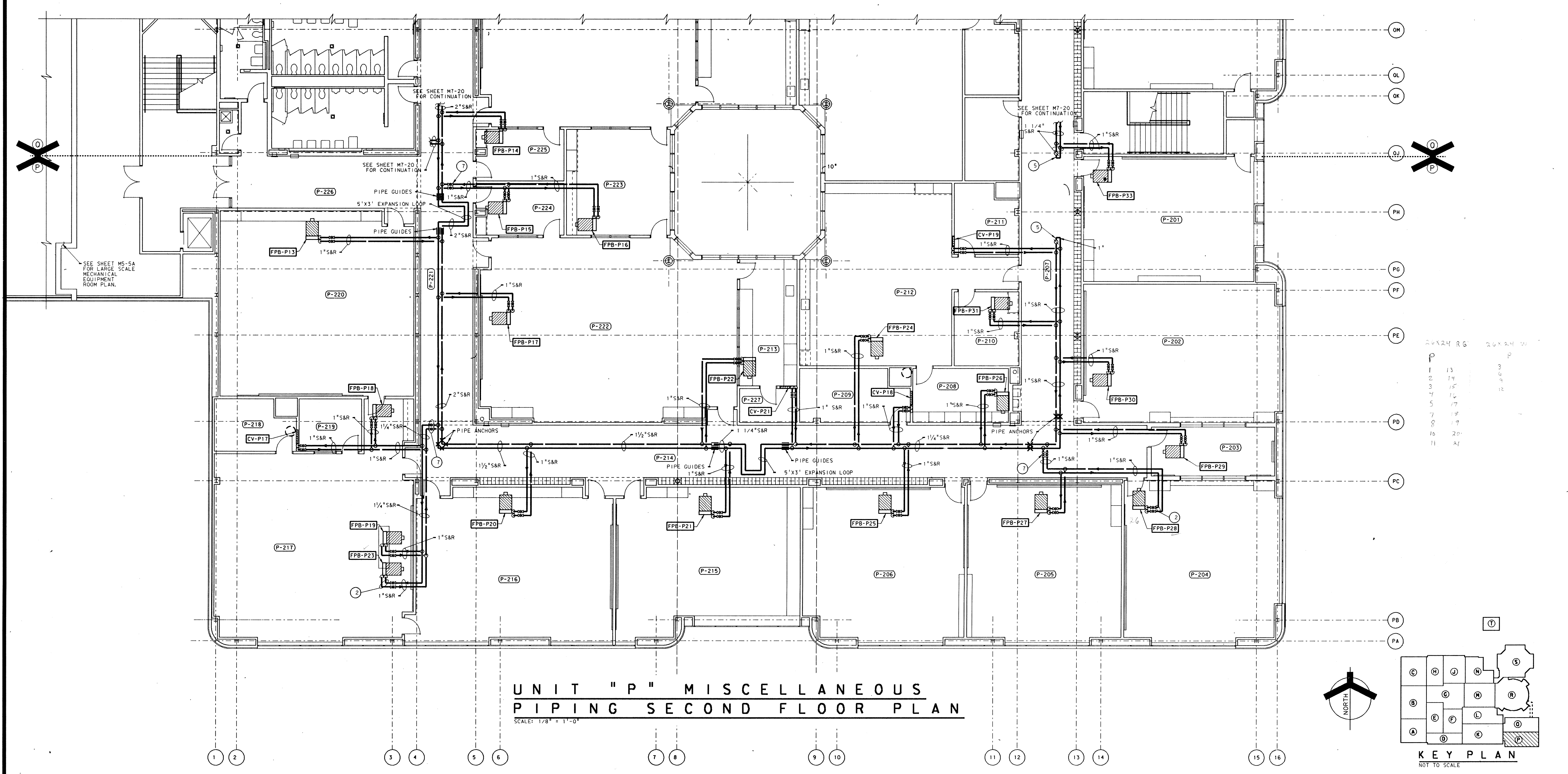
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DEC. 18, 1989

REVISED

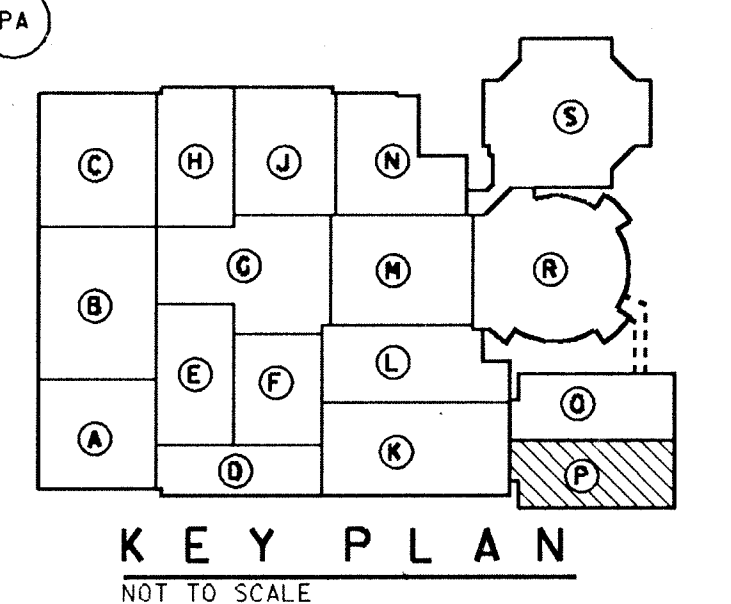
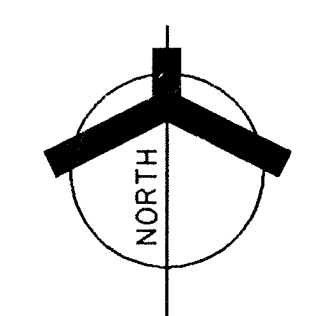
- PLAN NOTES:**
- SEE SHEETS M0-1 THRU M0-5 FOR GENERAL NOTES, LEGEND AND SCHEDULES.
 - PROVIDE 3-WAY CONTROL VALVE FOR ALL FAN POWERED BOXES, CONVECTORS AND CABINET HEATERS LOCATED AT THE END OF A PIPE RUN AS INDICATED.
 - SEE SHEET M3-18 FOR ASSOCIATED SHEET METAL WORK THIS AREA.
 - SEE SHEET M6-1 FOR TYPICAL PIPING DIAGRAM FOR FAN POWERED BOXES, CONVECTORS AND UNIT HEATERS.
 - END OF MAIN BY-PASS.
 - SEE SHEETS M6-1 THRU M6-3 FOR TYPICAL DETAILS.
 - ISOLATION VALVE.

CONTRACTS #3, #5: Sheets M7-18:
 A. Revise Reference Note 5 to Read as Follows:
 5. End of loop temperature bypass without differential pressure transmitter. See Detail Sheet M6-4 for diagram.

ROOM NAME SCHEDULE	
NO	NAME
P-201	FOREIGN LANGUAGE
P-202	FOREIGN LANGUAGE
P-203	RECORDING ROOM
P-204	FOREIGN LANGUAGE
P-205	FOREIGN LANGUAGE
P-206	FOREIGN LANGUAGE
P-207	CORRIDOR
P-208	WORK AREA
P-209	CUSTODIAN
P-210	DEPARTMENT OFFICE
P-211	STORAGE
P-212	LANGUAGE OFFICE
P-213	WORK AREA
P-214	CORRIDOR
P-215	BUSINESS
P-216	TYPIING
P-217	COMPUTER
P-218	STORAGE
P-219	OFFICE
P-220	TYPIING
P-221	CORRIDOR
P-222	CO-OP OFFICE EDUCATION CLASSROOM
P-223	CONFERENCE
P-224	OFFICE
P-225	OFFICE
P-226	CORRIDOR



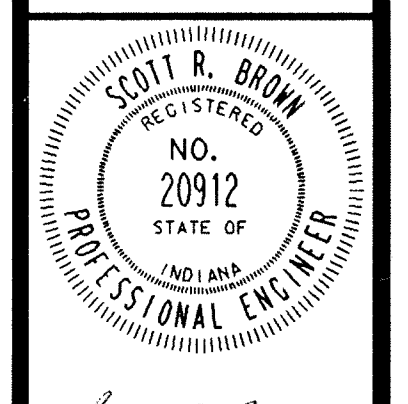
UNIT "P" MISCELLANEOUS PIPING SECOND FLOOR PLAN
 SCALE: 1/8" = 1'-0"



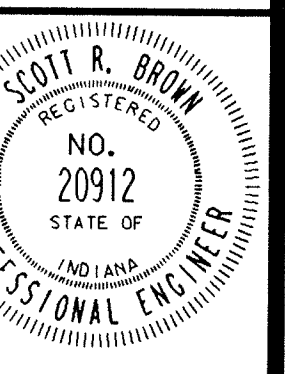
NO	REVISION	DATE	BY
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ADDITION TO AND RENOVATION OF LAWRENCE CENTRAL HIGH SCHOOL
 for the METROPOLITAN SCHOOL DISTRICT of LAWRENCE TOWNSHIP
 MARION COUNTY, INDIANA

VERETT COMPANY
EDCROWN
 Architects & Engineers
 950 NORTH MERIDIAN STREET
 INDIANAPOLIS, INDIANA 46204
 (317) 237-7000



PROJECT: 871-110
 DATE: DEC. 18, 1989
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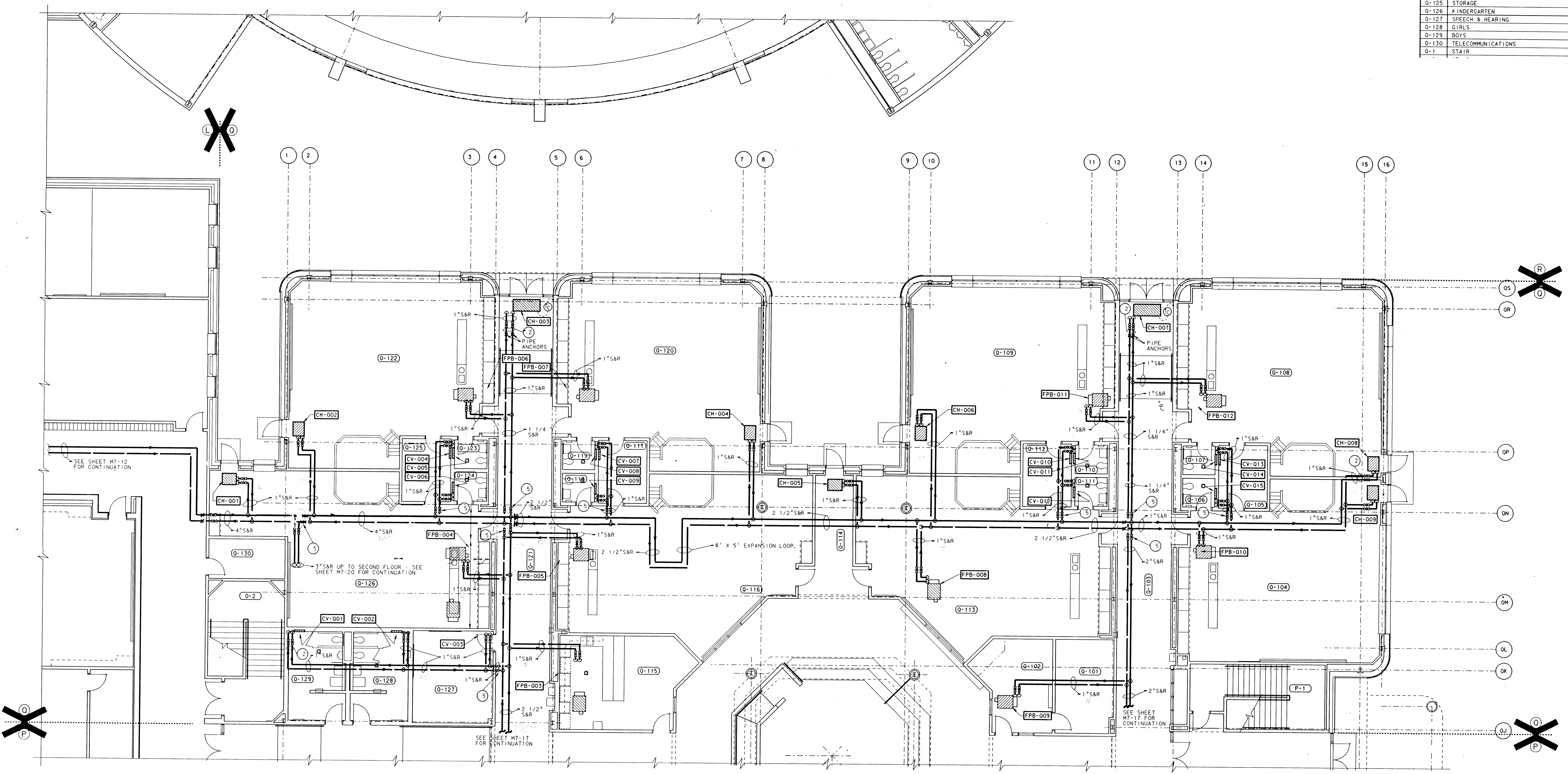
ROOM NAME SCHEDULE

NO	NAME
P-137	ELEVATOR EQUIPMENT
PA-1	PLAY AREA
Q-101	RECEPTION
Q-102	OFFICE
Q-103	CORRIDOR
Q-104	KINDERGARTEN
Q-105	STORAGE
Q-106	TOILET
Q-107	TOILET
Q-108	KINDERGARTEN
Q-109	KINDERGARTEN
Q-110	TOILET
Q-111	TOILET
Q-112	STORAGE
Q-113	KINDERGARTEN
Q-114	PASSAGE
Q-115	KITCHEN
Q-116	KINDERGARTEN
Q-117	STORAGE
Q-118	TOILET
Q-119	TOILET
Q-120	KINDERGARTEN
Q-121	CORRIDOR
Q-122	KINDERGARTEN
Q-123	TOILET
Q-124	TOILET
Q-125	STORAGE
Q-126	KINDERGARTEN
Q-127	SPEECH & HEARING
Q-128	GIRLS
Q-129	BOYS
Q-130	TELECOMMUNICATIONS
Q-1	STAIR

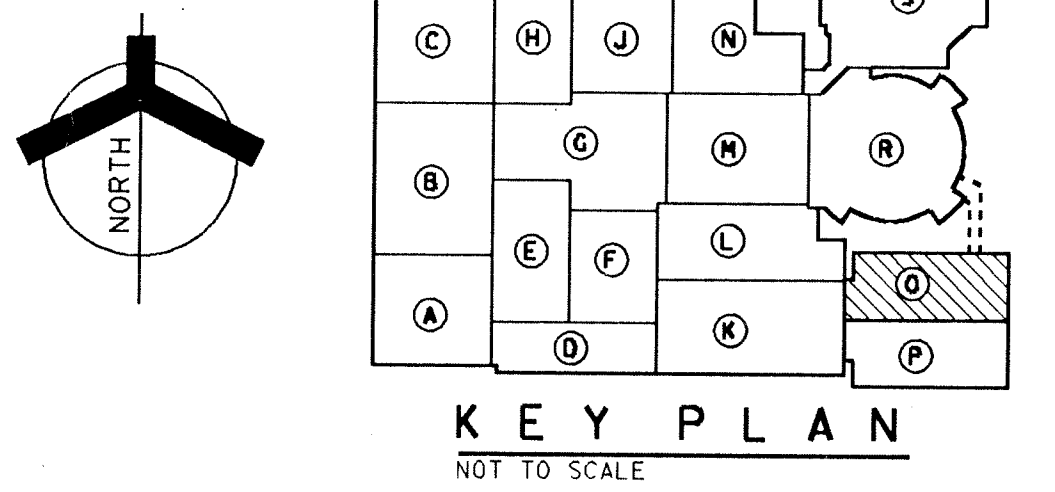
PLAN NOTES:

- ① SEE SHEET M0-1 THRU M0-5 FOR GENERAL NOTES, LEGEND AND SCHEDULES.
- ② PROVIDE 3-WAY CONTROL VALVE FOR ALL FAN POWERED BOXES, CONVECTORS AND UNIT HEATERS LOCATED AT THE END OF A PIPE RUN.
- ③ SEE SHEET M3-19 FOR ASSOCIATED SHEET METAL WORK THIS AREA.
- ④ SEE SHEET M6-1 FOR TYPICAL PIPING DIAGRAM FOR FAN POWERED BOXES, CONVECTORS AND UNIT HEATERS.
- ⑤ ISOLATION VALVE

100. **CONTRACT #3: A.C.C. Sheet M7-19:**
 A. In Room Q-115 Kitchen, relocate 1 inch hot water supply and return so that it serves FPB-Q03 located in the southwest corner of the room.



**UNIT "O" MISCELLANEOUS
 PIPING FIRST FLOOR PLAN**
 SCALE: 1/8" = 1'-0"



REF. FILE LAR8010.DWG LOG. NAME 10K
 LEVELS: 1-3, 2-2, 2, 2E, 3, 3E, 4, 4E
 REF. FILE LAR8011.DWG LOG. NAME 10K
 LEVELS: 1-3, 2-2, 2, 2E, 3, 3E, 4, 4E
 REF. FILE LAR8013.DWG LOG. NAME 10K
 LEVELS: 1-3, 2-2, 2, 2E, 3, 3E, 4, 4E
 REF. FILE LAR8015.DWG LOG. NAME 10K
 LEVELS: 1-3, 2-2, 2, 2E, 3, 3E, 4, 4E

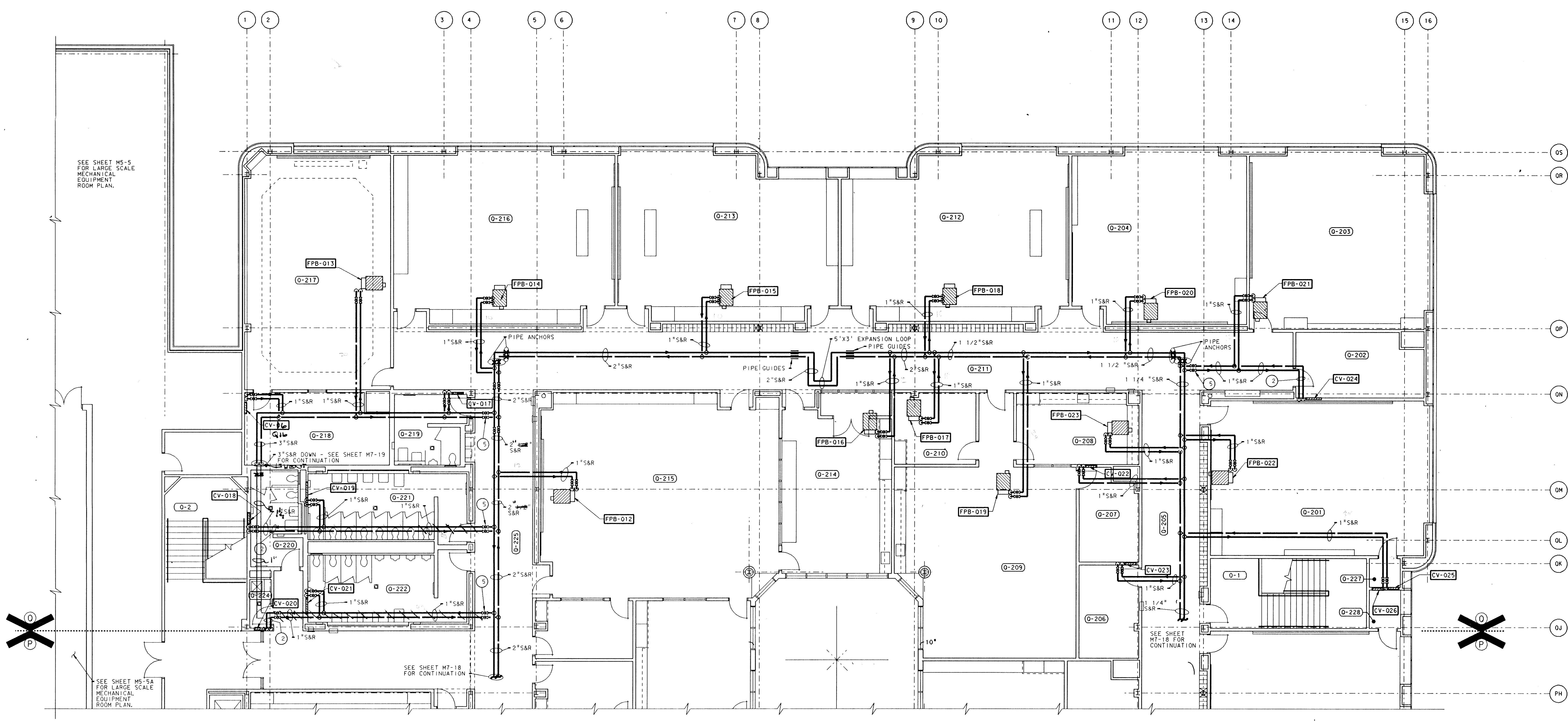
EVERETT I. BROWN COMPANY ARCHITECTS & ENGINEERS
 950 NORTH MERIDIAN STREET, INDIANAPOLIS, INDIANA 46204
 (317) 237-7000

- PLAN NOTES:**
- ① SEE SHEETS M0-1 THRU M0-5 FOR GENERAL NOTES, LEGEND AND SCHEDULES.
 - ② PROVIDE 3-WAY CONTROL VALVE FOR ALL FAN POWERED BOXES, CONVECTORS AND UNIT HEATERS LOCATED AT THE END OF A PIPE RUN
 - ③ SEE SHEET M3-20 FOR ASSOCIATED SHEET METAL WORK THIS AREA.
 - ④ SEE SHEET M6-1 FOR TYPICAL PIPING DIAGRAM FOR FAN POWERED BOXES, CONVECTORS AND UNIT HEATERS.
 - ⑤ ISOLATION VALVE

CONTRACTS #3, #5: Sheet M7-20:
 A. Add Reference Note 2 to Convector CV-Q26 located in Room Q-228.

ROOM NAME SCHEDULE

NO	NAME
Q-221	STORAGE
Q-201	FOREIGN LANGUAGE
Q-202	STORAGE
Q-203	FOREIGN LANGUAGE
Q-204	FOREIGN LANGUAGE
Q-205	CORRIDOR
Q-206	STORAGE
Q-207	STORAGE
Q-208	WORK AREA
Q-209	BUSINESS OFFICE
Q-210	DEPARTMENT OFFICE
Q-211	CORRIDOR
Q-212	BUSINESS
Q-213	BUSINESS
Q-214	COMPUTER
Q-215	MARKETING EDUCATION
Q-216	ACCOUNTING
Q-217	LECTURE
Q-218	STORAGE
Q-219	MEN
Q-220	WOMEN
Q-221	GIRLS
Q-222	BOYS
Q-223	PASSAGE
Q-224	CUSTODIAN
Q-225	CORRIDOR



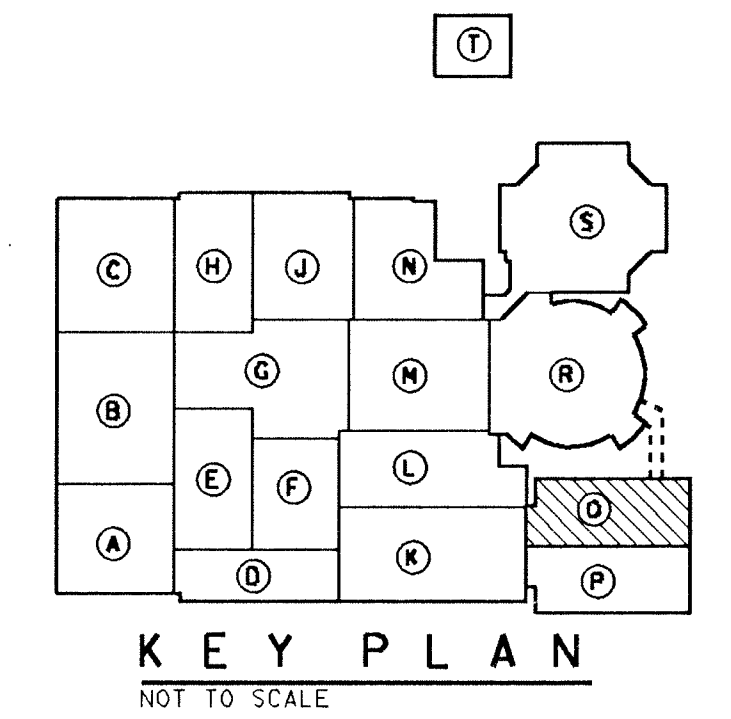
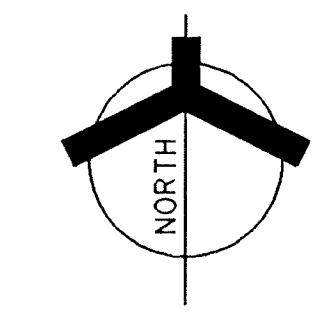
SEE SHEET M5-5 FOR LARGE SCALE MECHANICAL EQUIPMENT ROOM PLAN.

SEE SHEET M5-5 FOR LARGE SCALE MECHANICAL EQUIPMENT ROOM PLAN.

SEE SHEET M7-18 FOR CONTINUATION

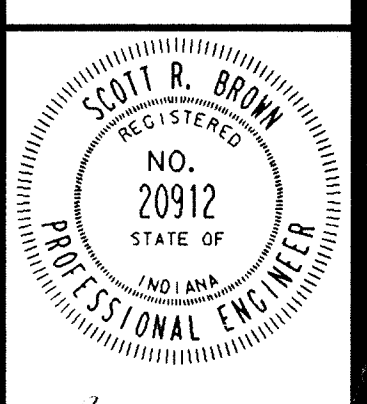
SEE SHEET M7-18 FOR CONTINUATION

UNIT "O" MISCELLANEOUS PIPING SECOND FLOOR PLAN
 SCALE: 1/8" = 1'-0"

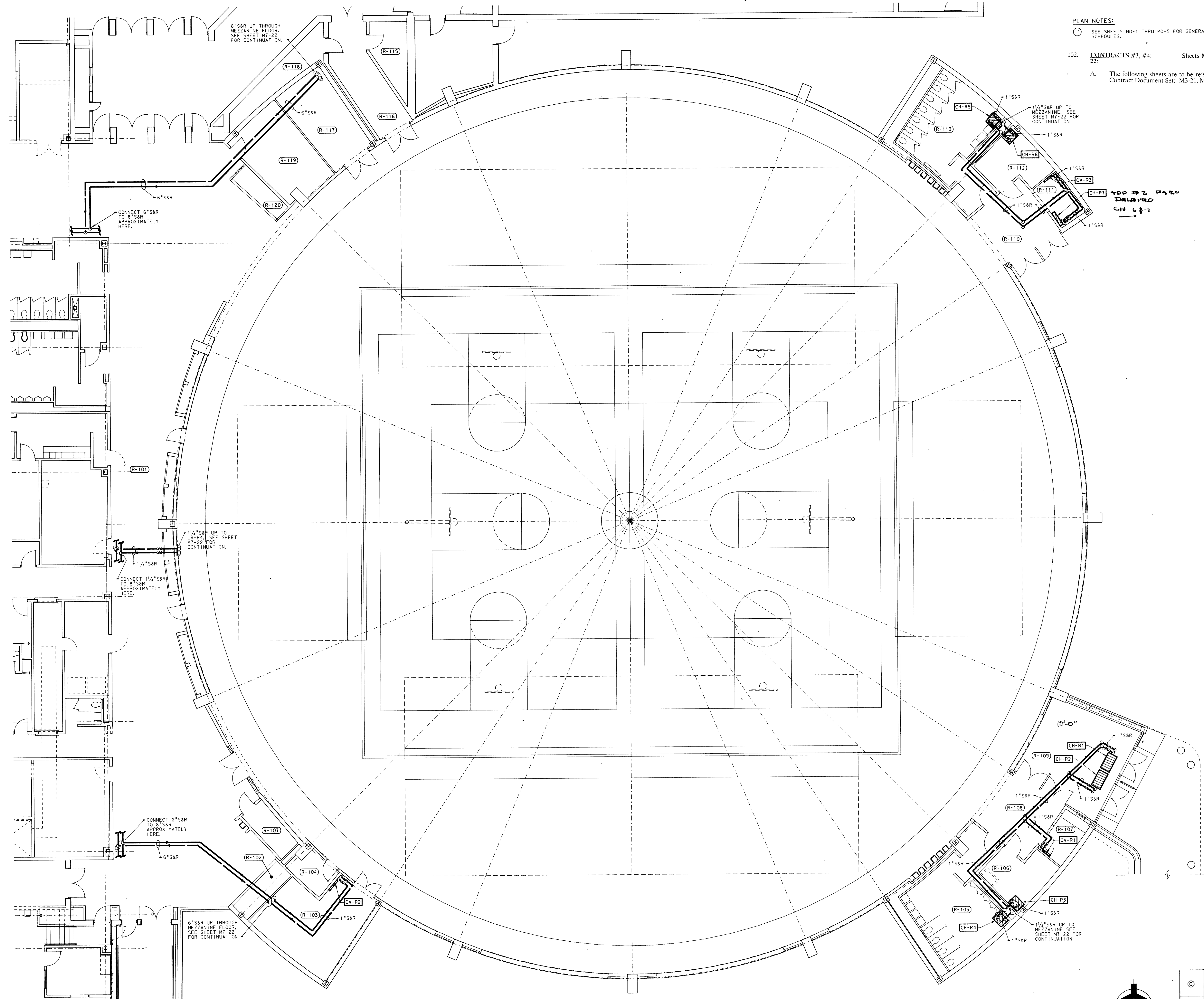


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EVERETT L. BROWN Company
 Architects & Engineers
 950 NORTH MERIDIAN STREET
 INDIANAPOLIS, INDIANA 46204
 (317) 237-7000



PROJECT 871-110
 DATE DEC. 18, 1989
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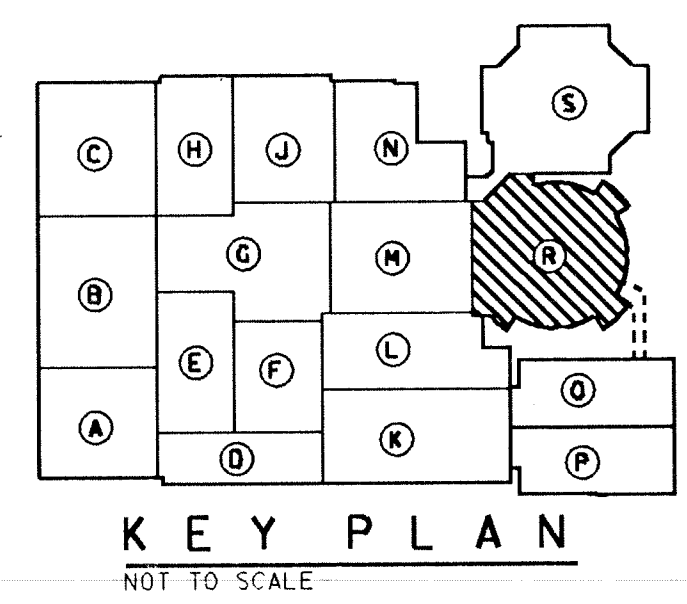
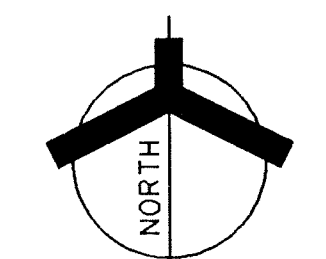


PLAN NOTES:
 ① SEE SHEETS M0-1 THRU M0-5 FOR GENERAL NOTES, LEGEND AND SCHEDULES.
 102. **CONTRACTS #3, #4:** Sheets M3-21, M3-22, M7-21, and M7-22:
 A. The following sheets are to be reissued and incorporated into the Contract Document Set: M3-21, M3-22, M7-21, and M7-22.

ADD #2 PIPES
 Deleted
 CH 6-7

**UNIT "R" MISCELLANEOUS PIPING
 FIRST FLOOR PLAN**

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

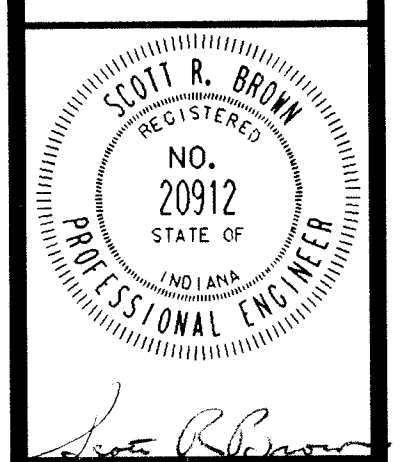


KEY PLAN
 NOT TO SCALE

DATE: 12/18/1989
 DRAWN BY: DAN TROTT
 CHECKED BY: [Signature]
 PROJECT NO.: 871-110
 SHEET NO.: M7-22 OF 22

**ADDITION TO and RENOVATION OF
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 for the METROPOLITAN SCHOOL DISTRICT of LAWRENCE TOWNSHIP
 MARION COUNTY, INDIANA

EVERETT L. CROWN Company
Architects & Engineers
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 INDIANAPOLIS, INDIANA 46204
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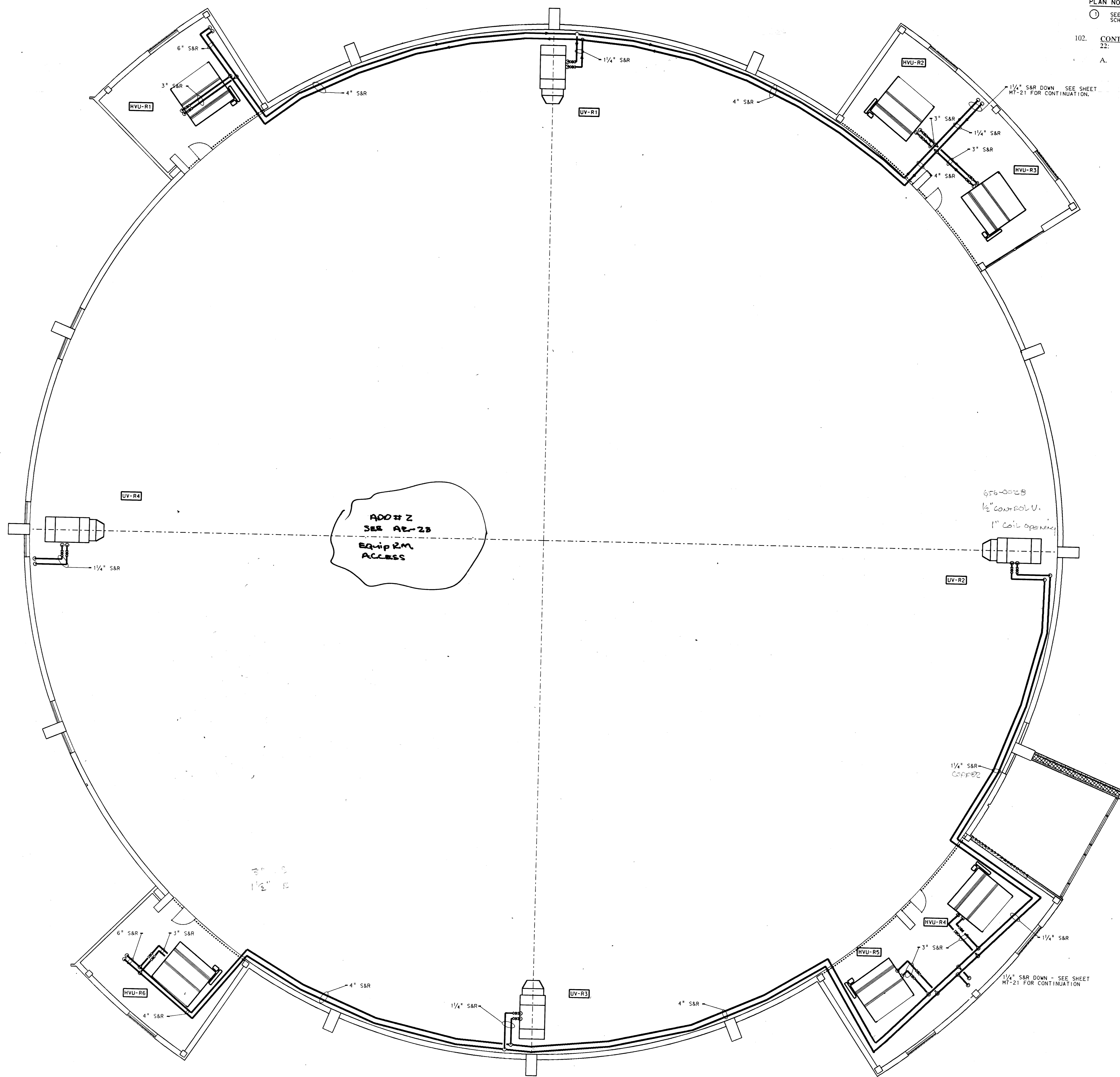


PROJECT
 871-110
 DATE
 DEC. 18, 1989
 REVISED

NO. M7-2
 OF 22

PLAN NOTES:
① SEE SHEET MO-1 THRU MO-5 SCHEDULES.

102. CONTRACTS #3, #4:
22:
A. The following sheets are Contract Document Set:



Log. Name: H222
Ref. Title: LCMH222.DWG
Level: 20

Log. Name: H222
Ref. Title: LCMH222.DWG
Level: 20

Plot Name: 1
Date: 11/16/16 17:24:33
User: J...
Log. Name: H222
Ref. Title: LCMH222.DWG
Level: 20

Log. Name: H222
Ref. Title: LCMH222.DWG
Level: 20

