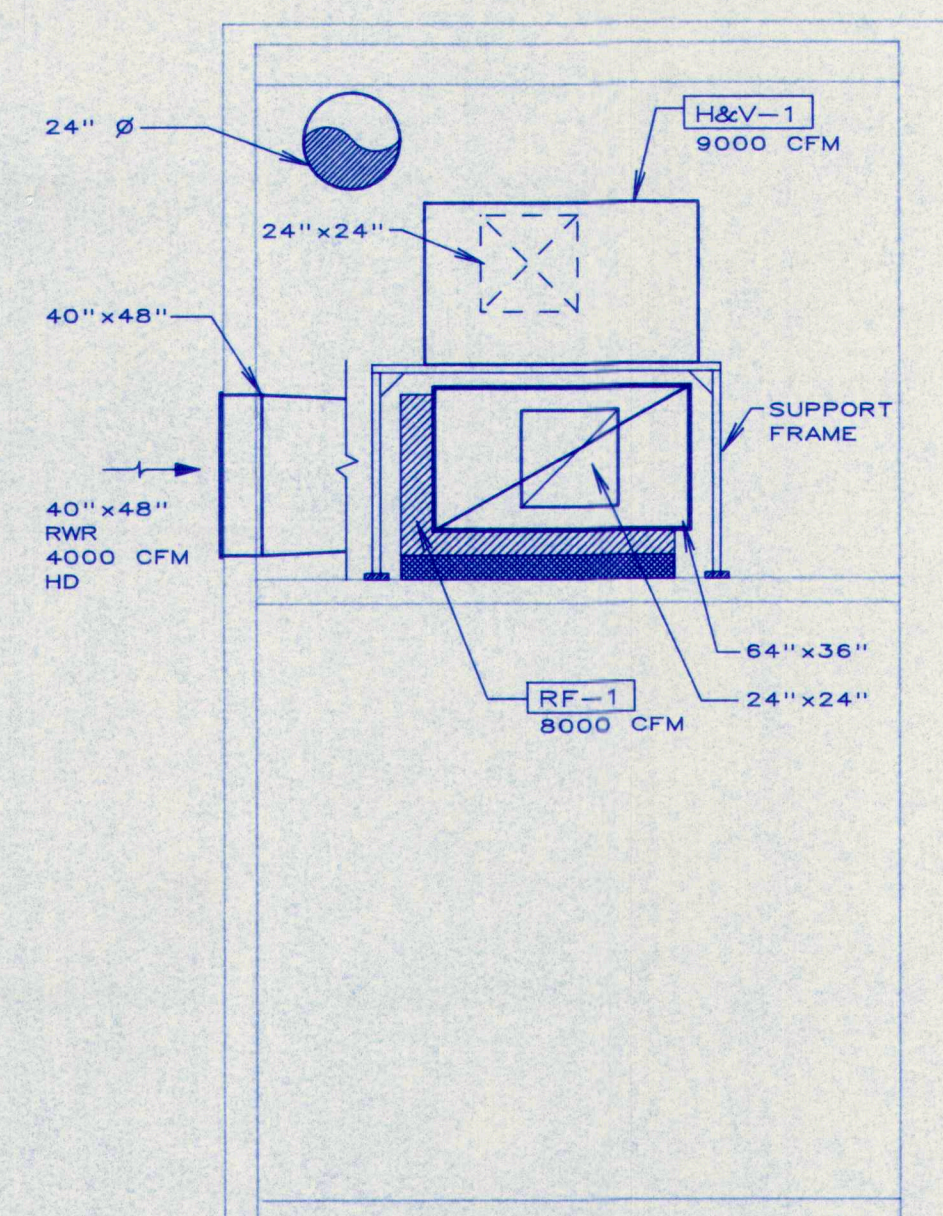
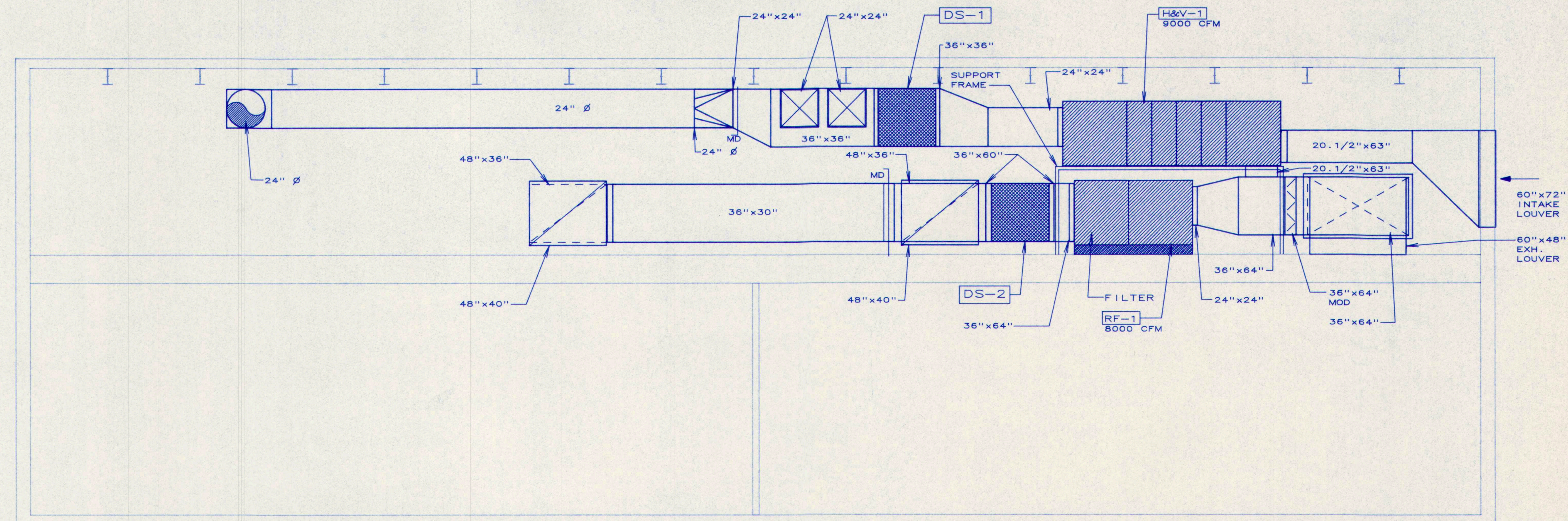


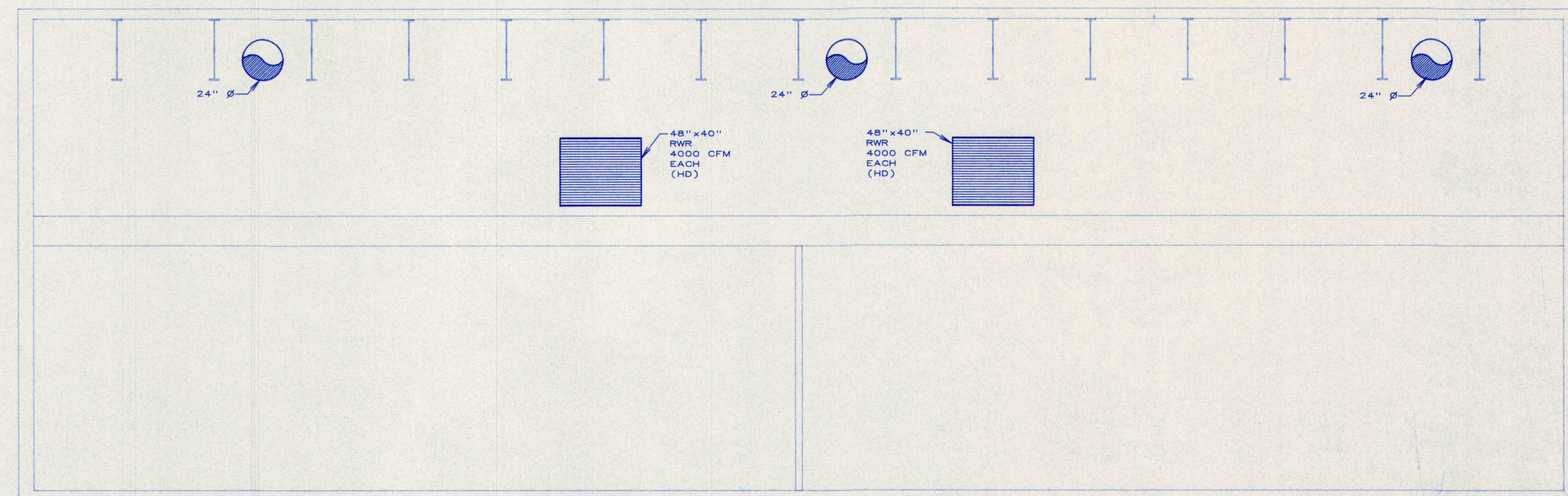
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SECTION C-C
SCALE : 1/4" = 1'-0"



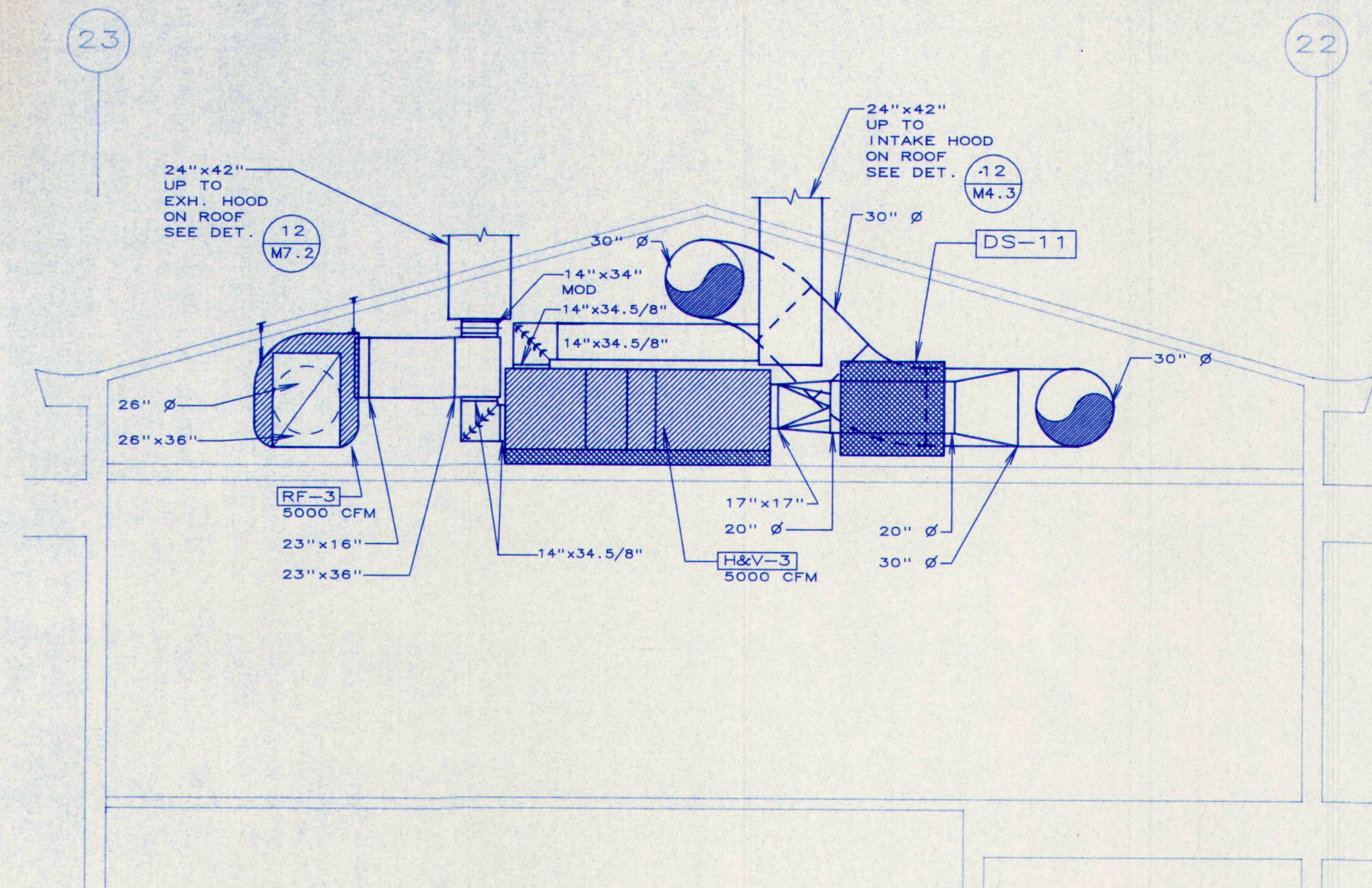
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SCALE : 1/4" = 1'-0"



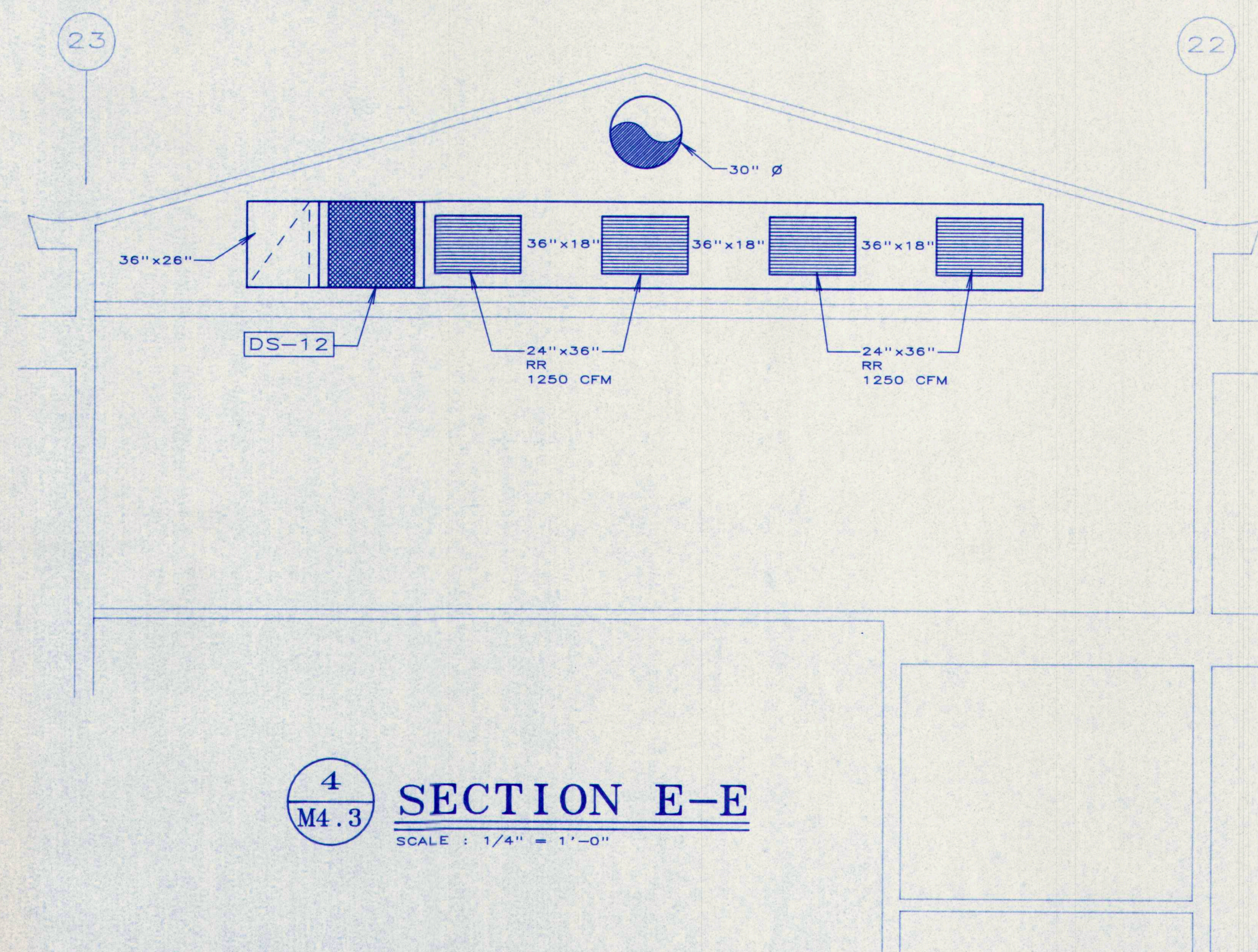
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SECTION A-A
SCALE : 1/4" = 1'-0"



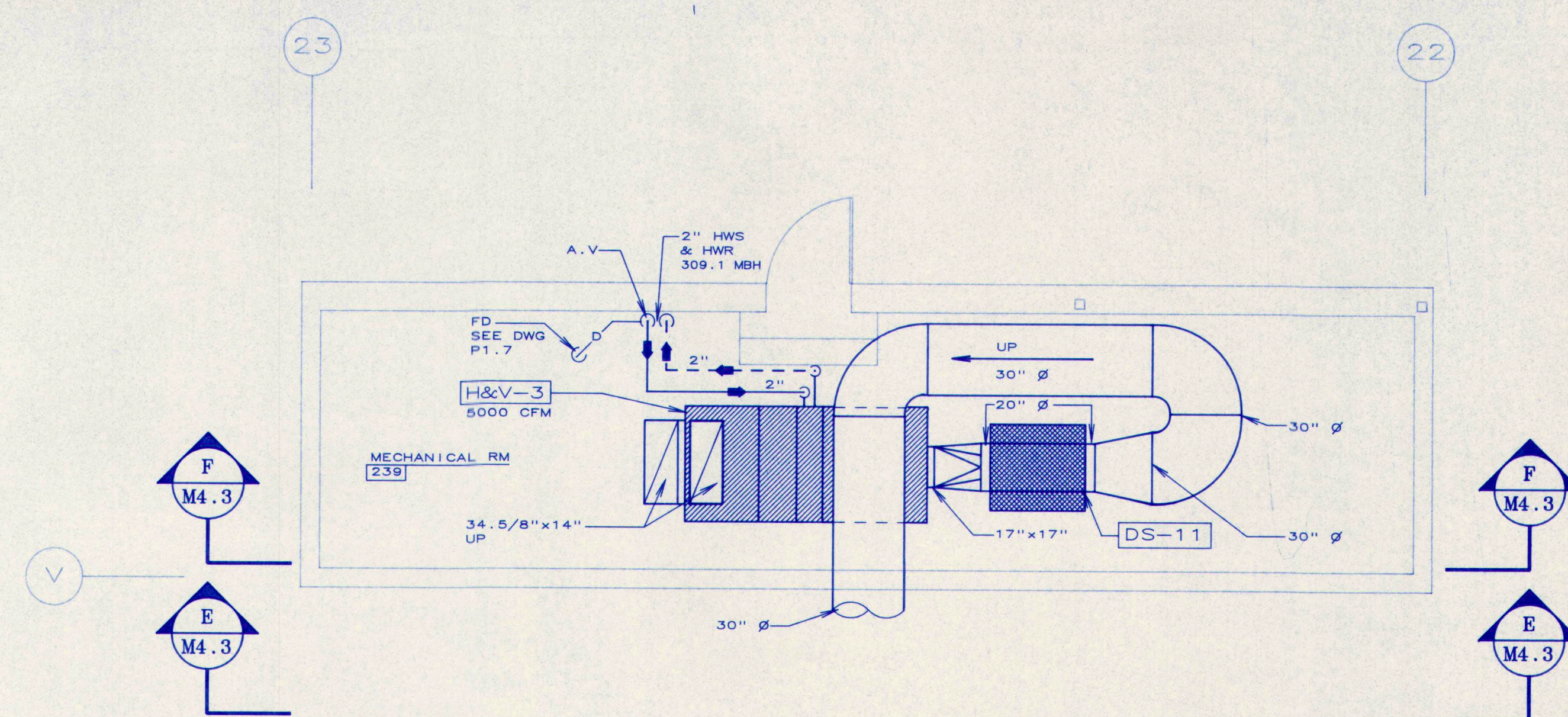
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SECTION B-B
SCALE : 1/4" = 1'-0"



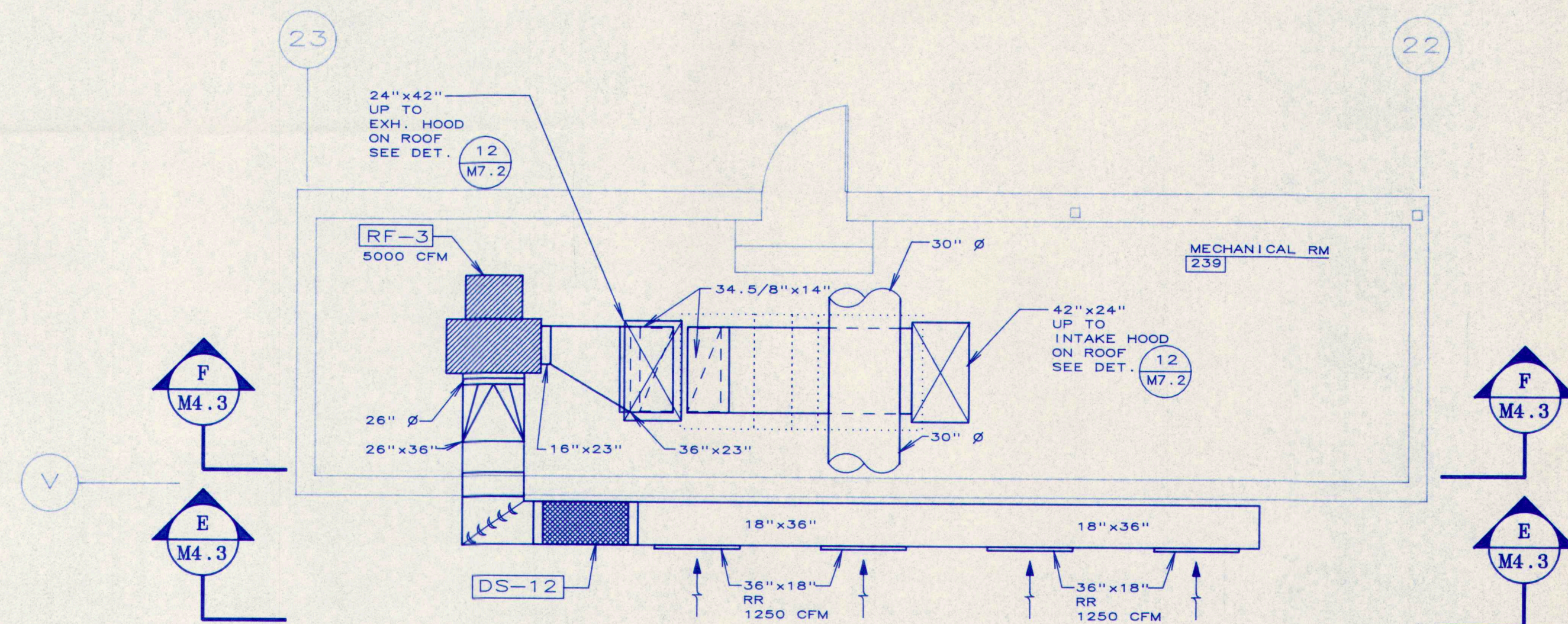
3 SECTION F-F
SCALE : 1/4" = 1'-0"



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

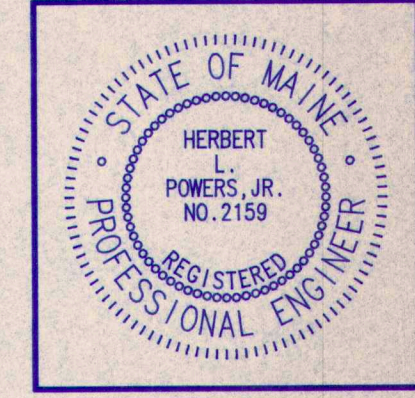


1 MECHANICAL ROOM-LOWER LEVEL
SCALE : 1/4" = 1'-0"



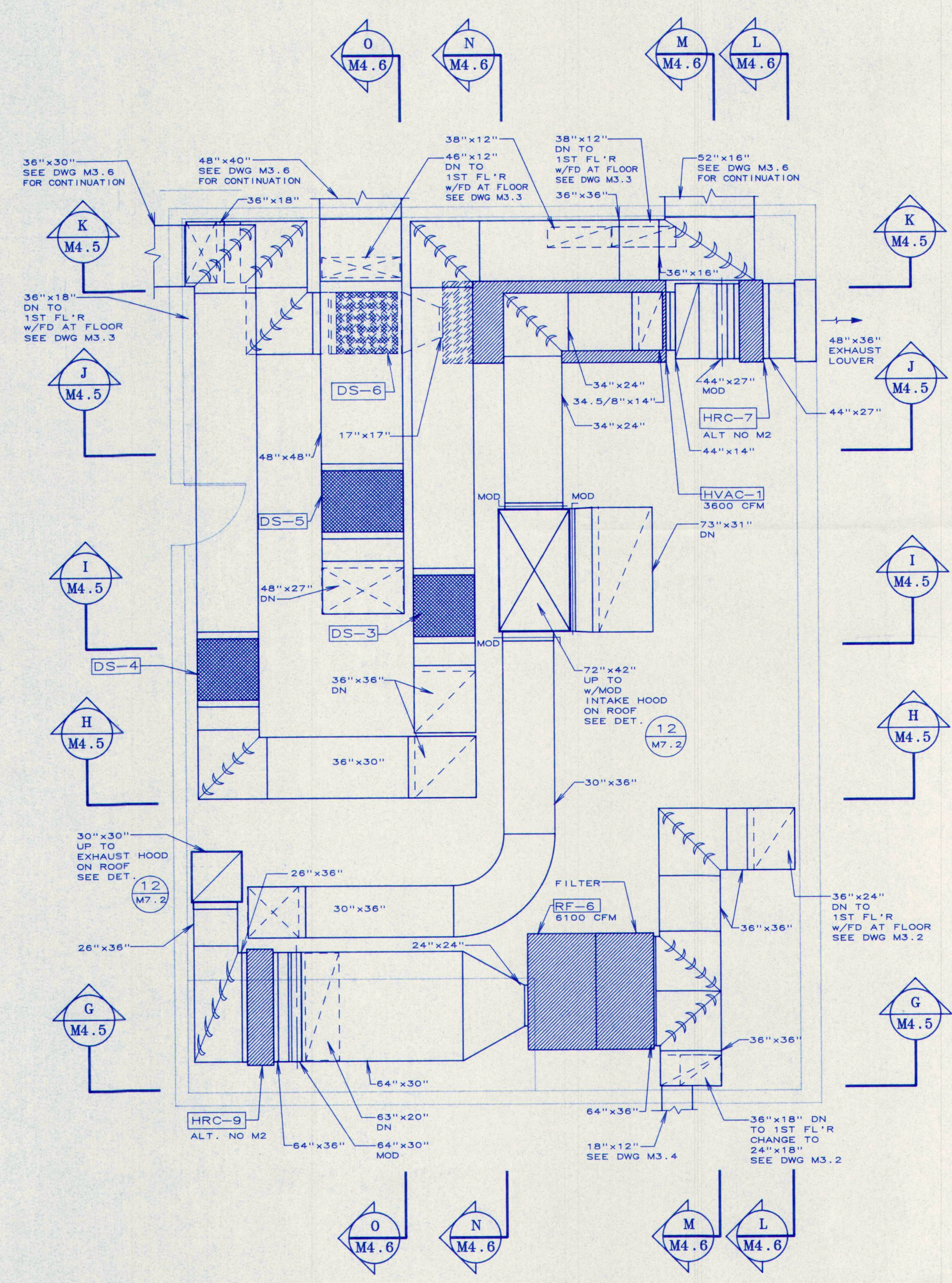
2 MECHANICAL ROOM-UPPER LEVEL
SCALE : 1/4" = 1'-0"

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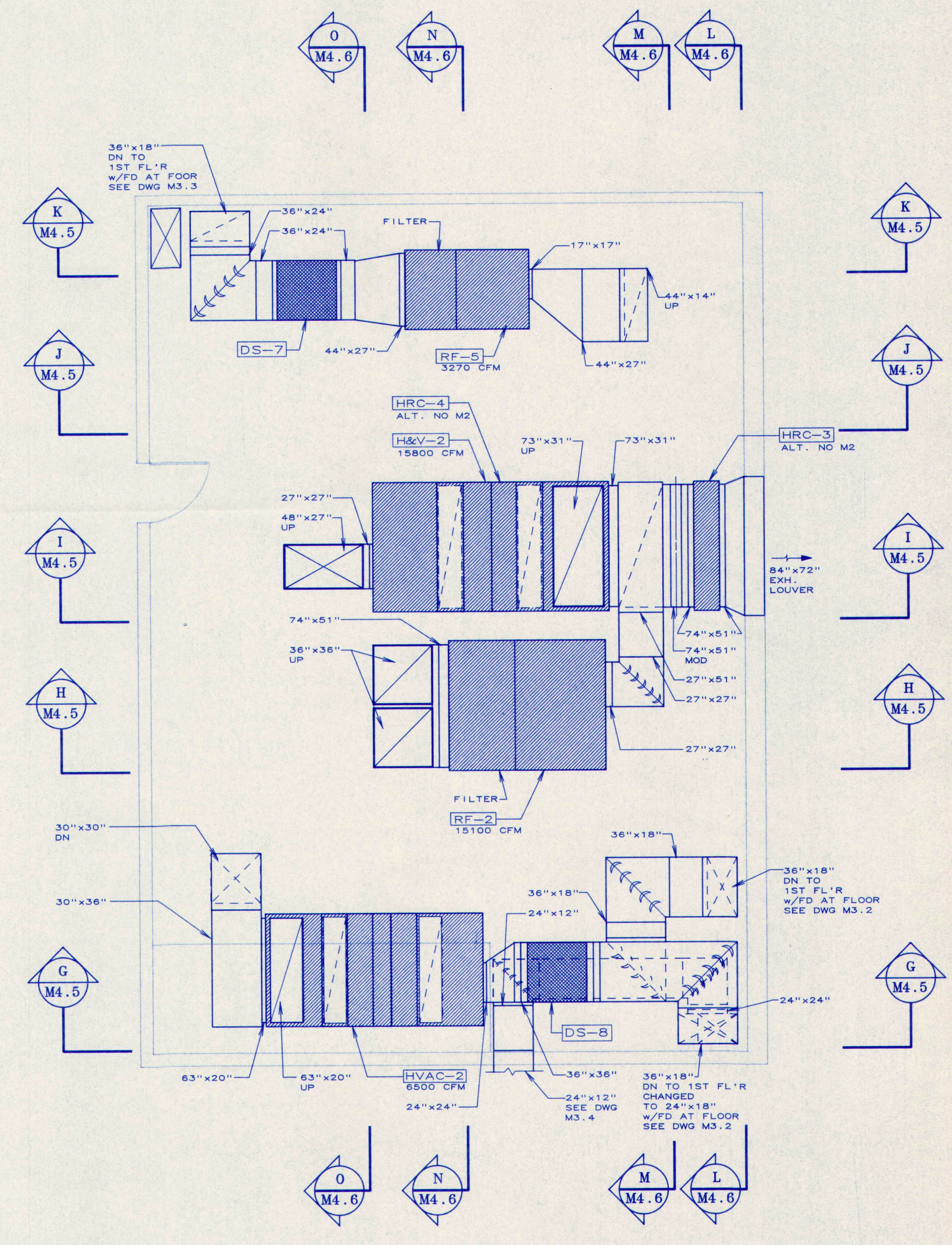


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M4.4

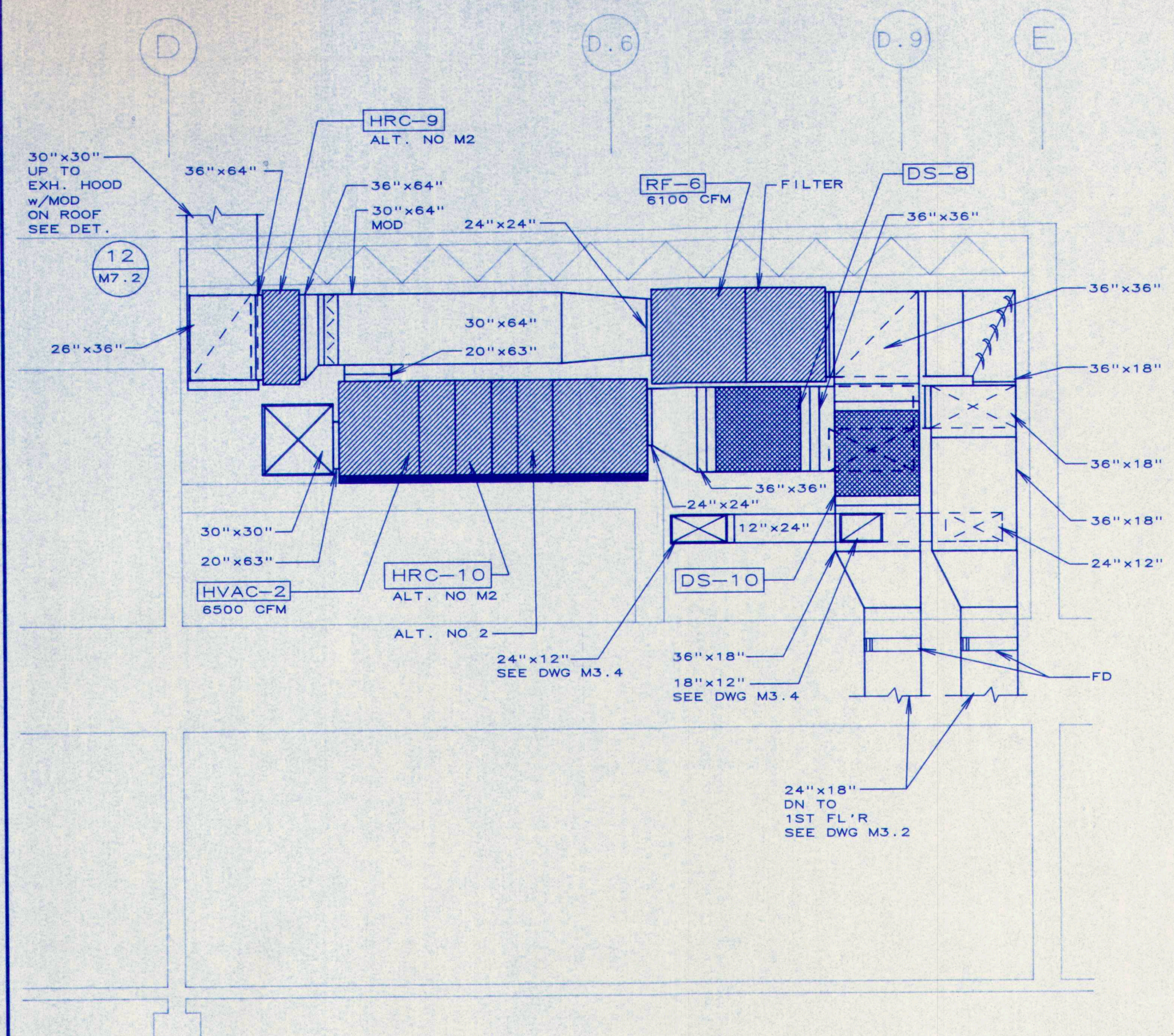


1
 M4.4
 H&V MECHANICAL RM 220
 UPPER LEVEL PLAN
 SCALE: 1/4" = 1'-0"

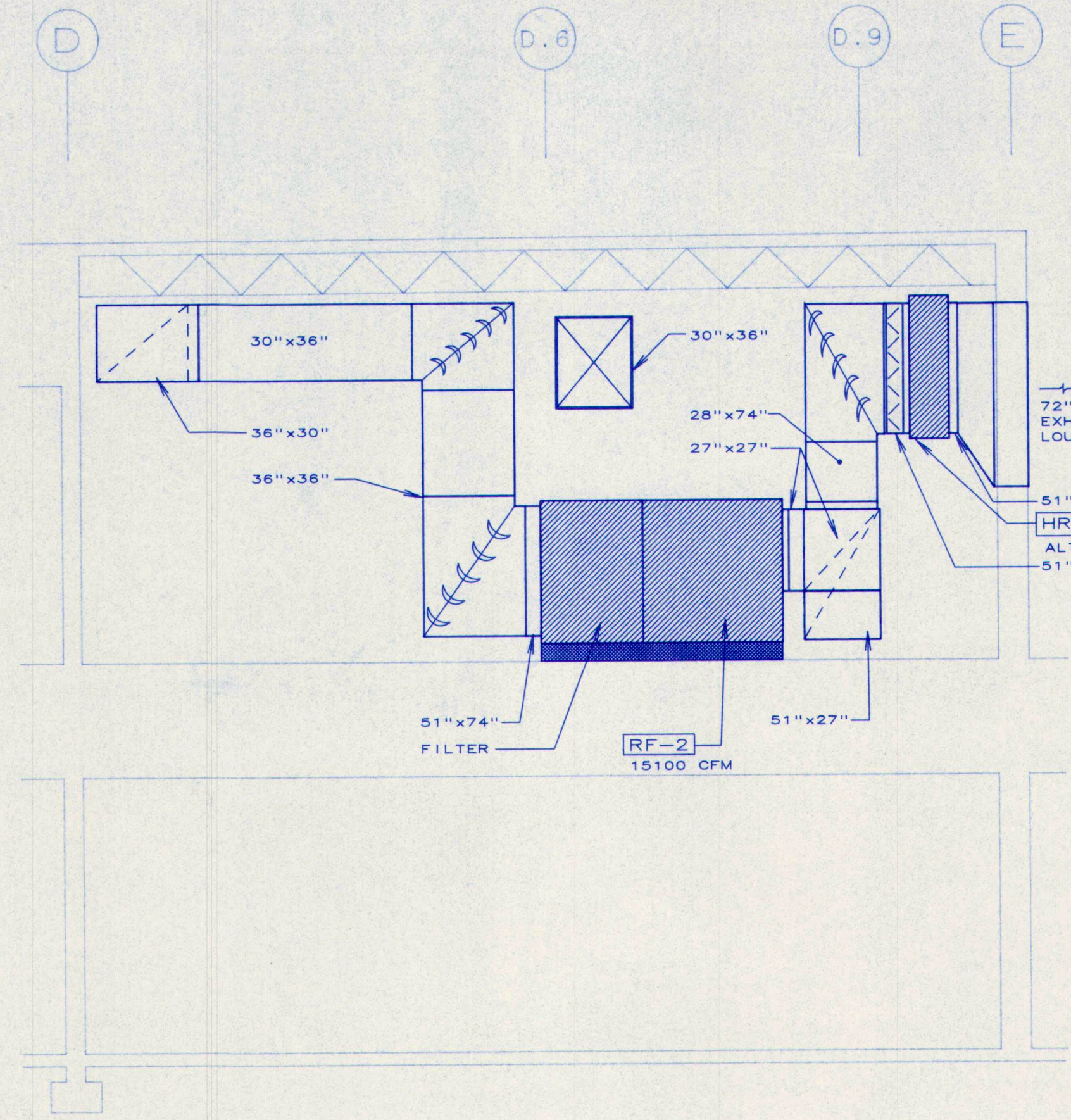


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 H&V MECHANICAL RM 220
 LOWER LEVEL PLAN
 SCALE: 1/4" = 1'-0"

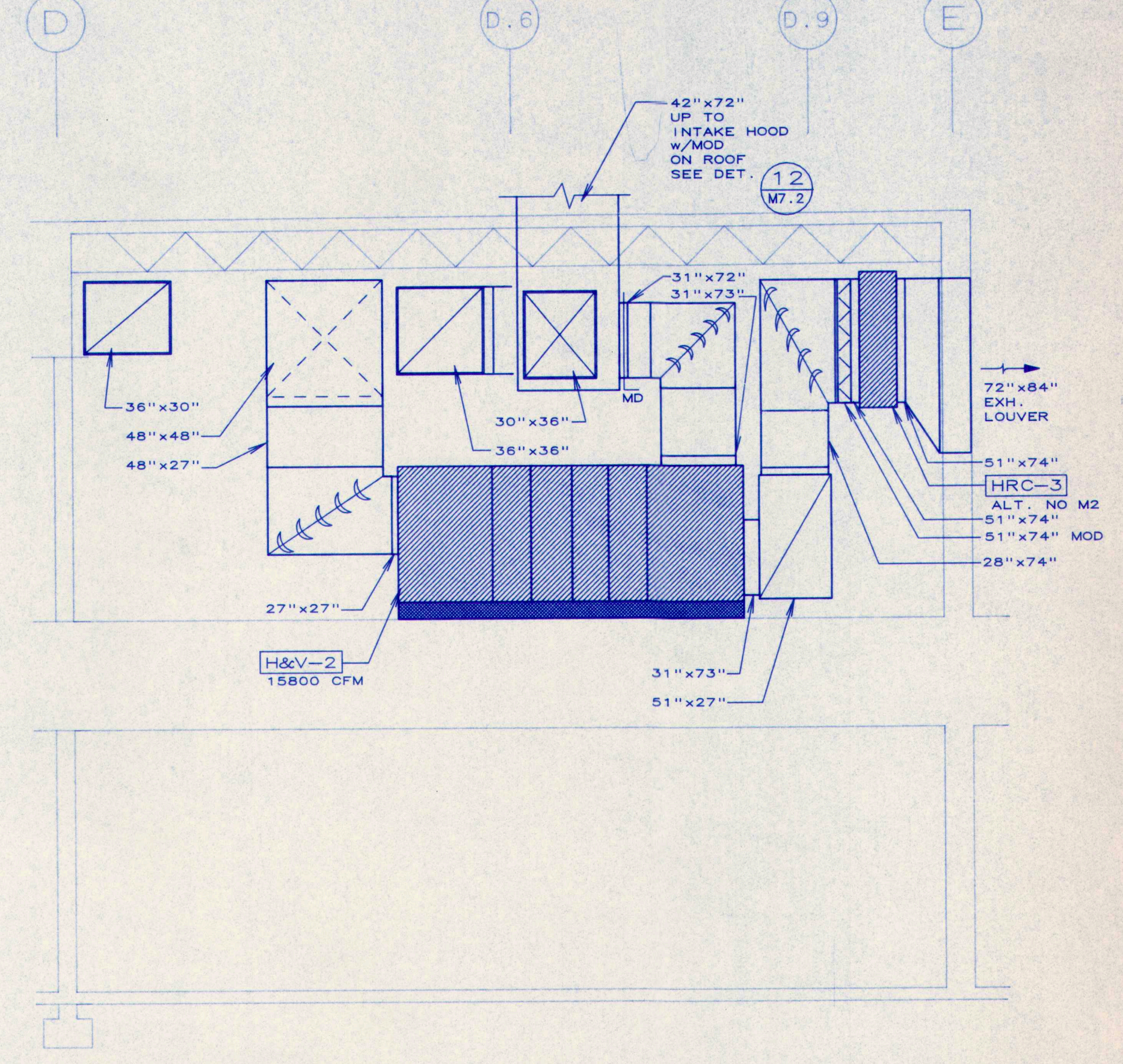
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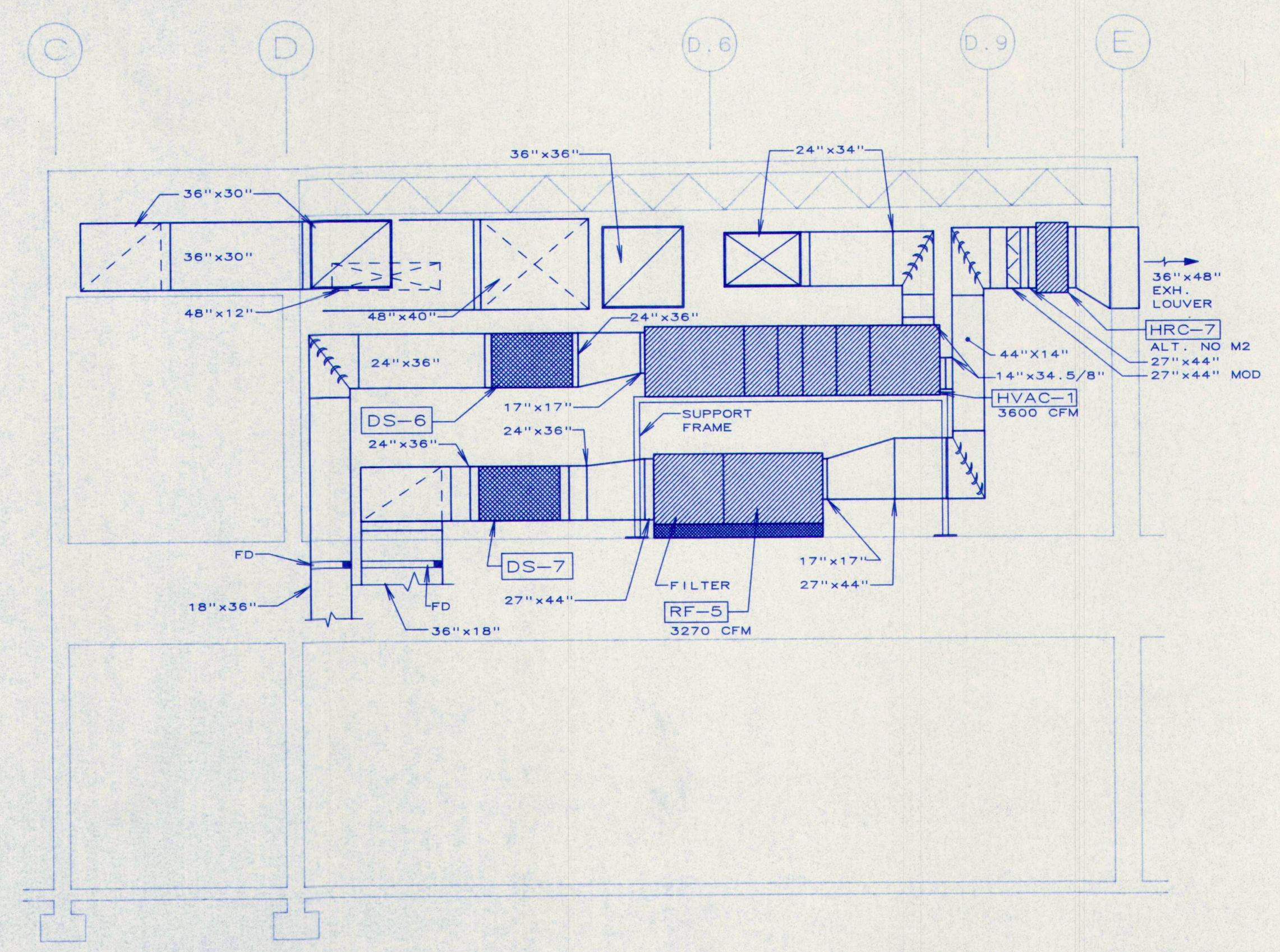
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M4.5 SECTION G-G
SCALE: 1/4" = 1'-0"



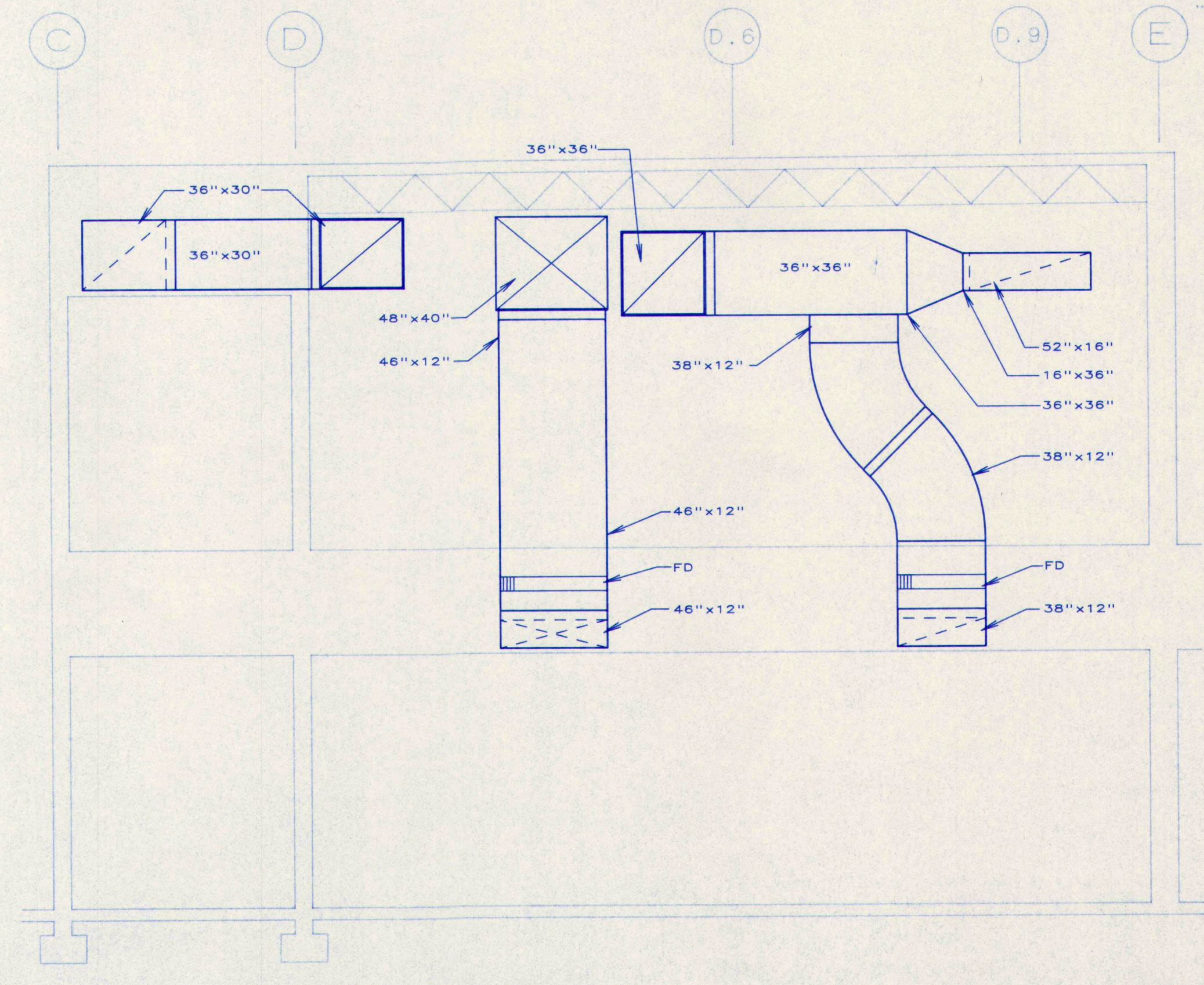
2
M4.5 SECTION H-H
SCALE: 1/4" = 1'-0"



3
M4.5 SECTION I-I
SCALE: 1/4" = 1'-0"



4
M4.5 SECTION J-J
SCALE: 1/4" = 1'-0"

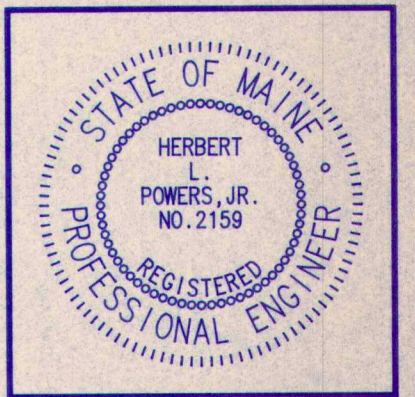


5
M4.5 SECTION K-K
SCALE: 1/4" = 1'-0"

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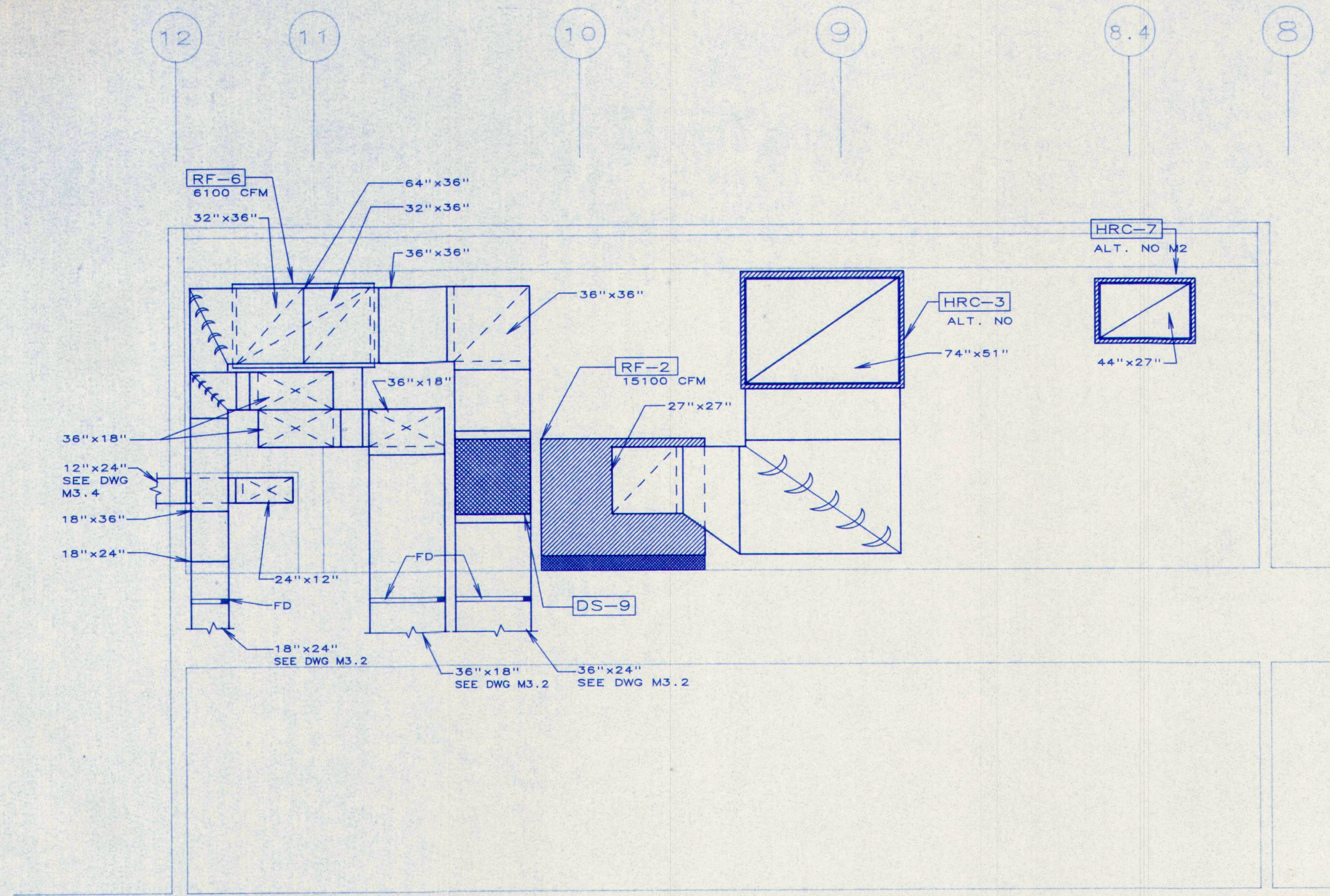
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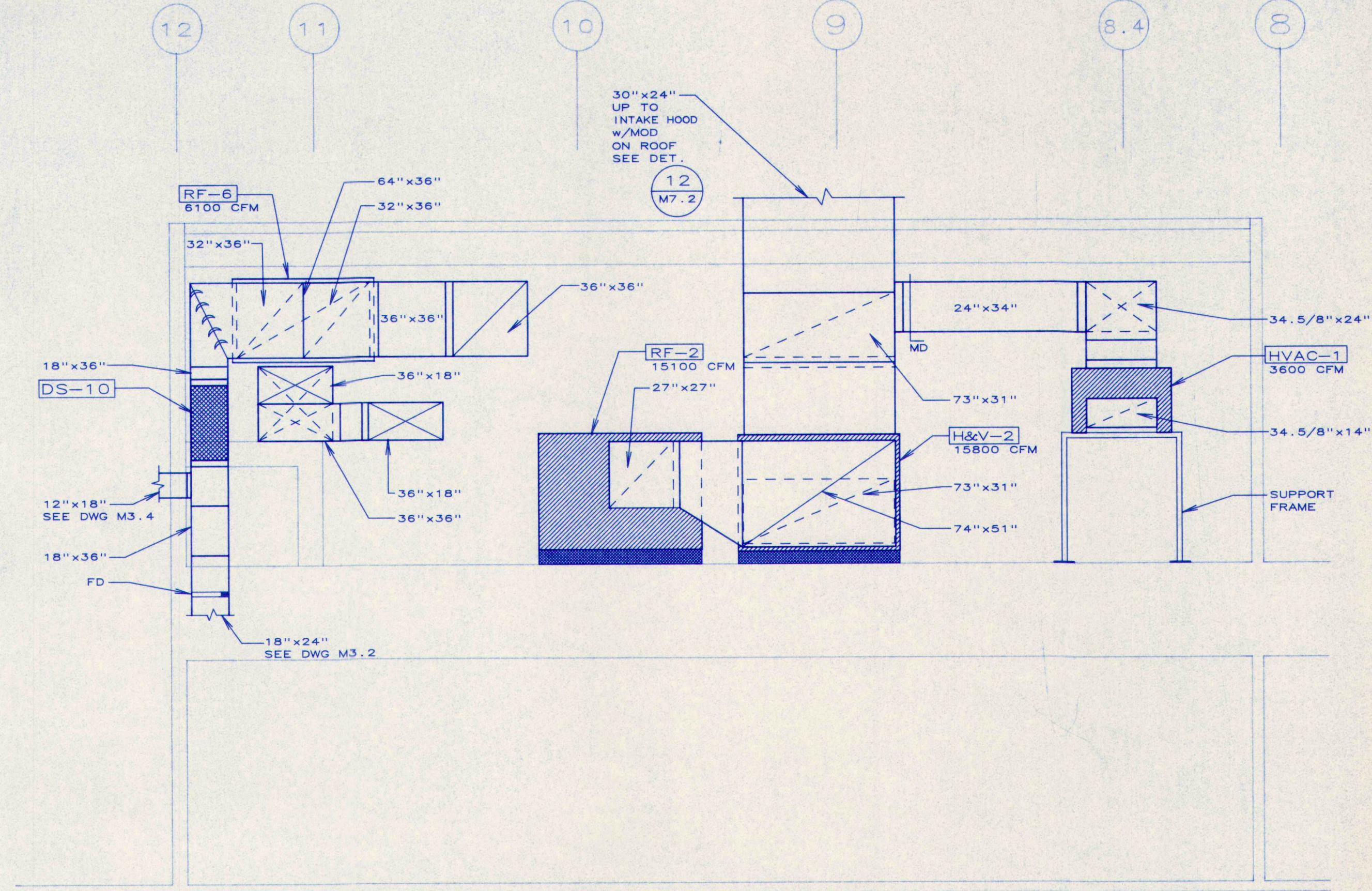


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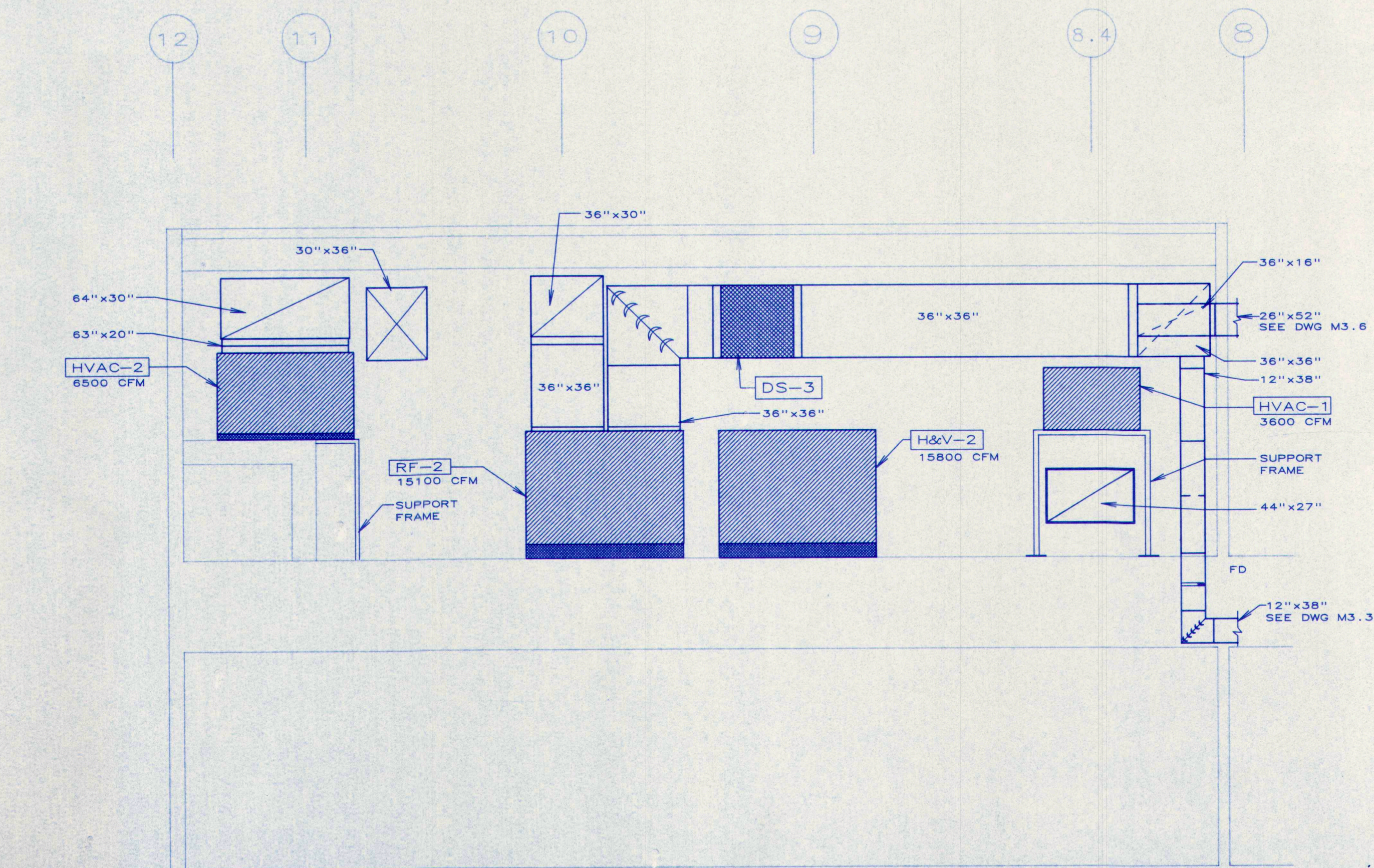
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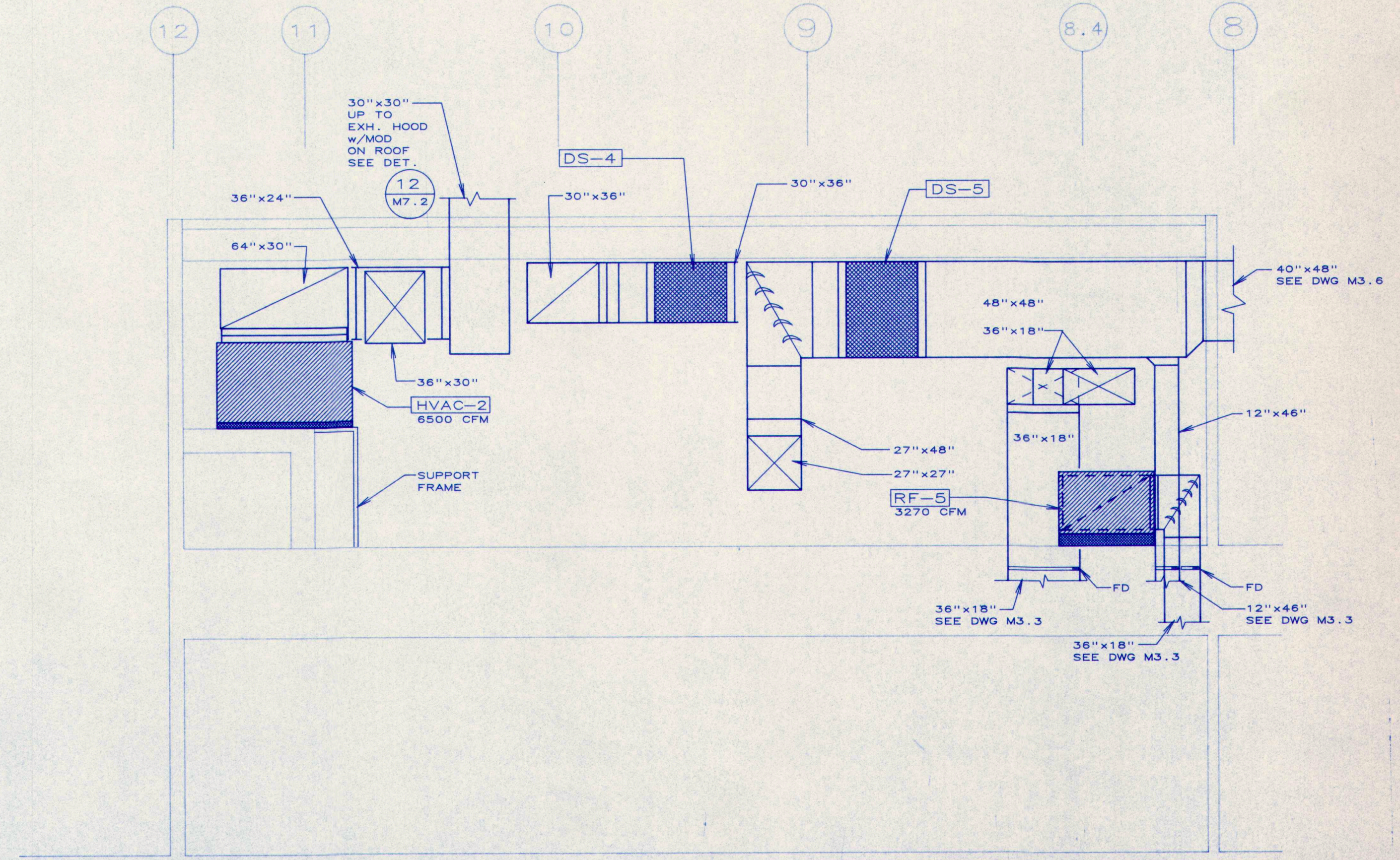
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M4.6 SECTION L-L
SCALE: 1/4" = 1'-0"



2
M4.6 SECTION M-M
SCALE: 1/4" = 1'-0"



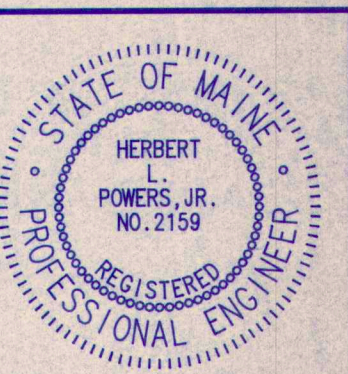
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M4.6 SECTION N-N
SCALE: 1/4" = 1'-0"



4
M4.6 SECTION O-O
SCALE: 1/4" = 1'-0"

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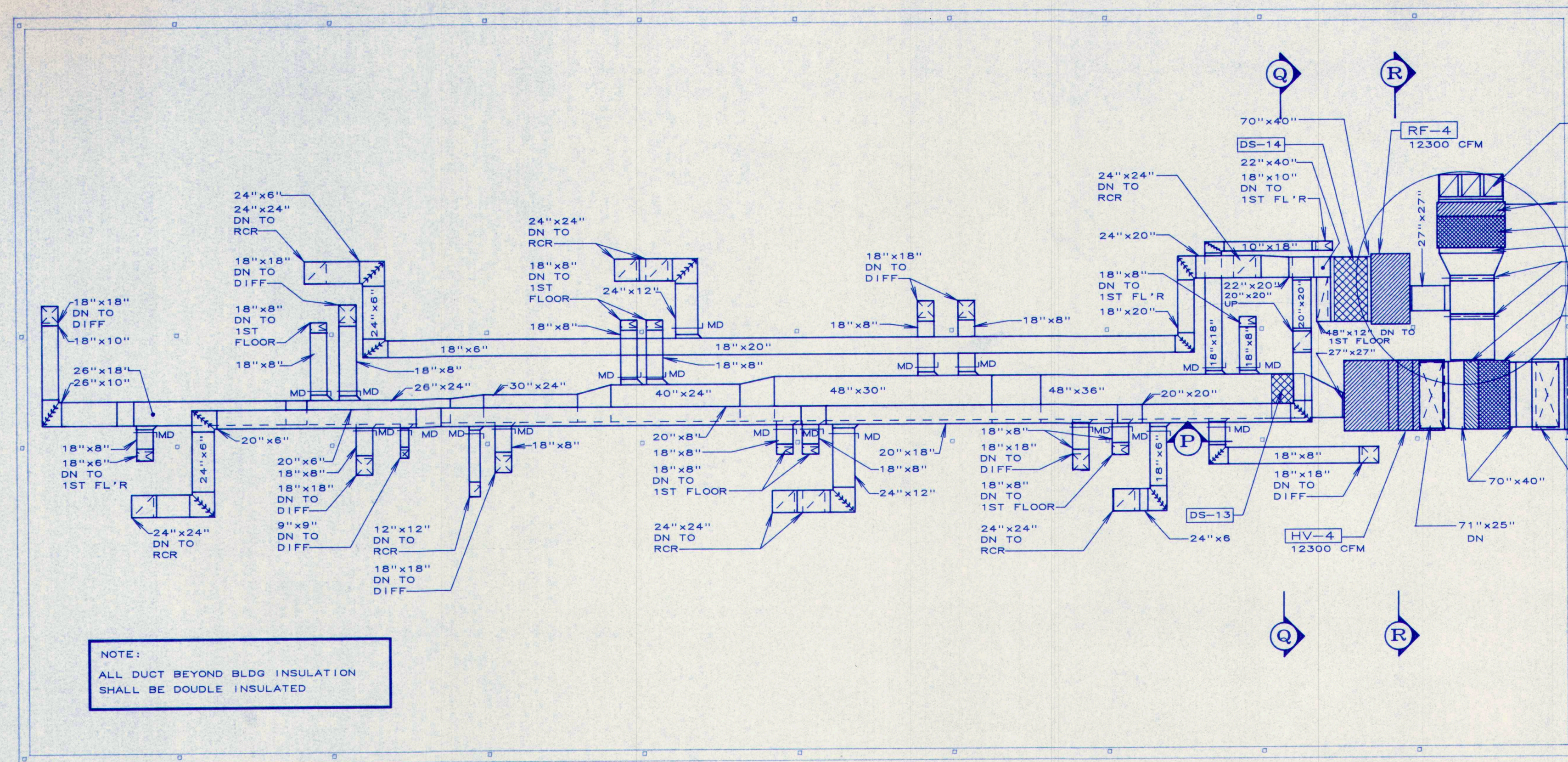


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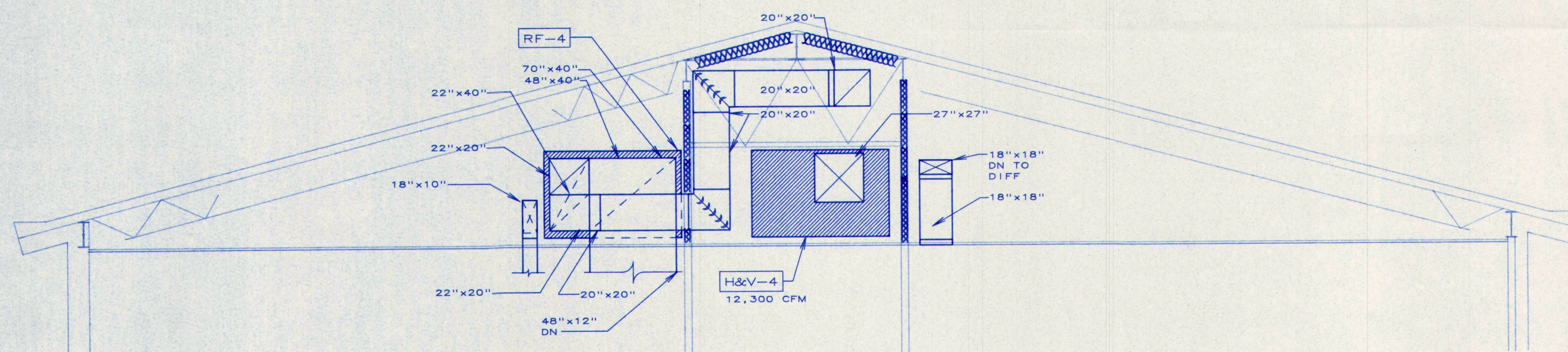
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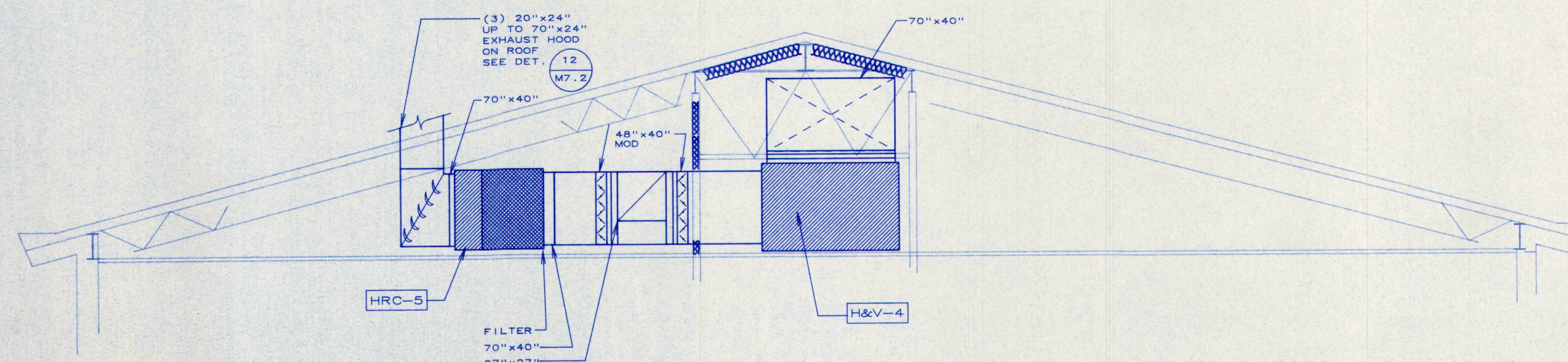
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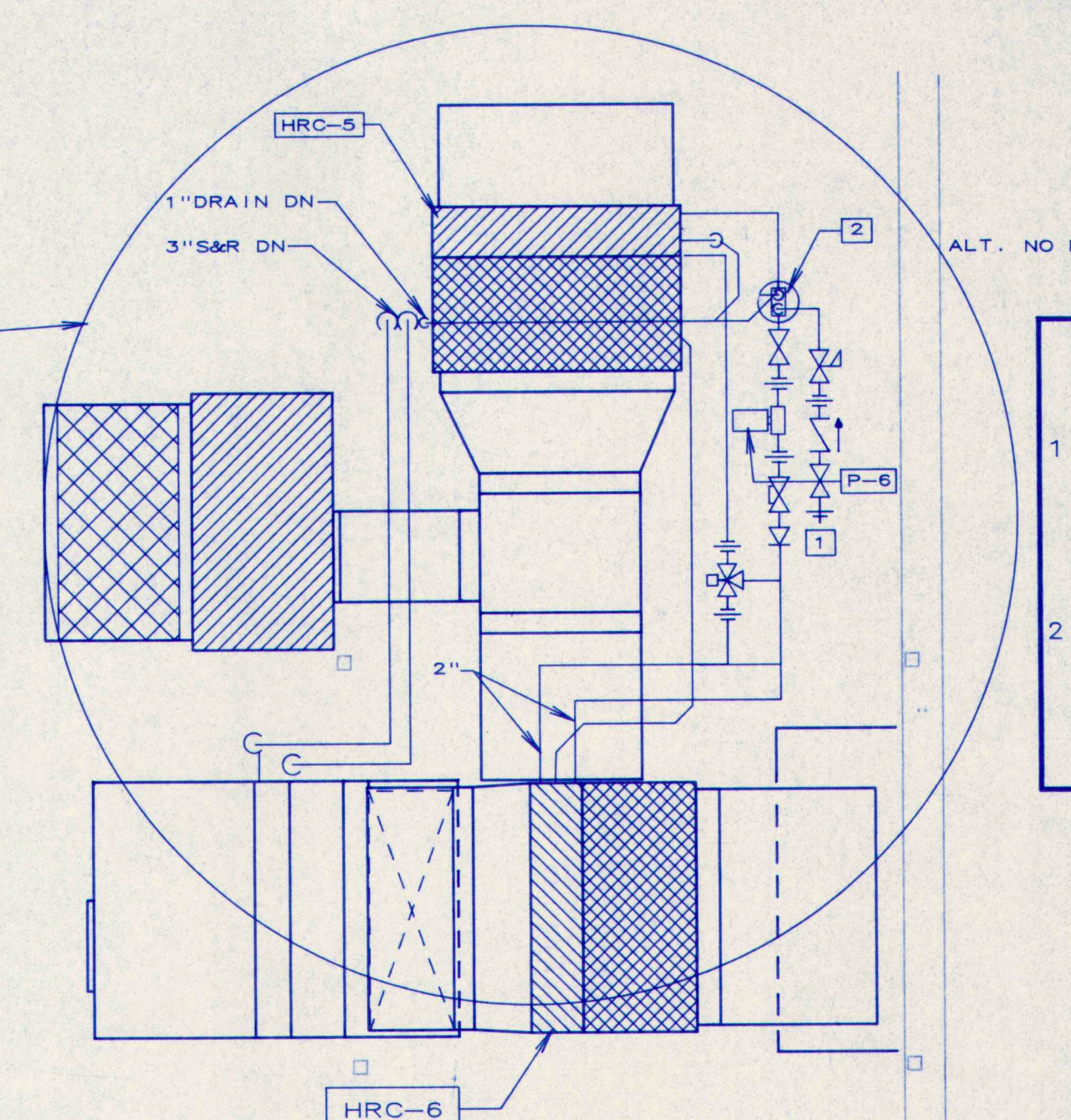
1 H&V DUCTWORK & PIPING ATTIC FLOOR PLAN
SCALE: 1/8" = 1'-0"



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



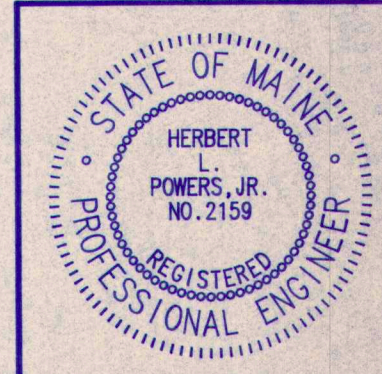
4 SECTION R-R
SCALE: 1/4" = 1'-0"



2 SECTION P-P
SCALE: 1/4" = 1'-0"

- KEYED NOTES**
ALT. # M2
- 3/4" HOSE BIBB WITH THREADED METAL CAP. FOR SYSTEM FILL FROM CW HOSE BIBB NEARBY BY P.C.
 - 2" IN-LINE AIR SEPARATOR w/AV AND 35 GPM GALLONS DIAPHRAM TYPE EXPANSION TANK.

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DRAWING NO.

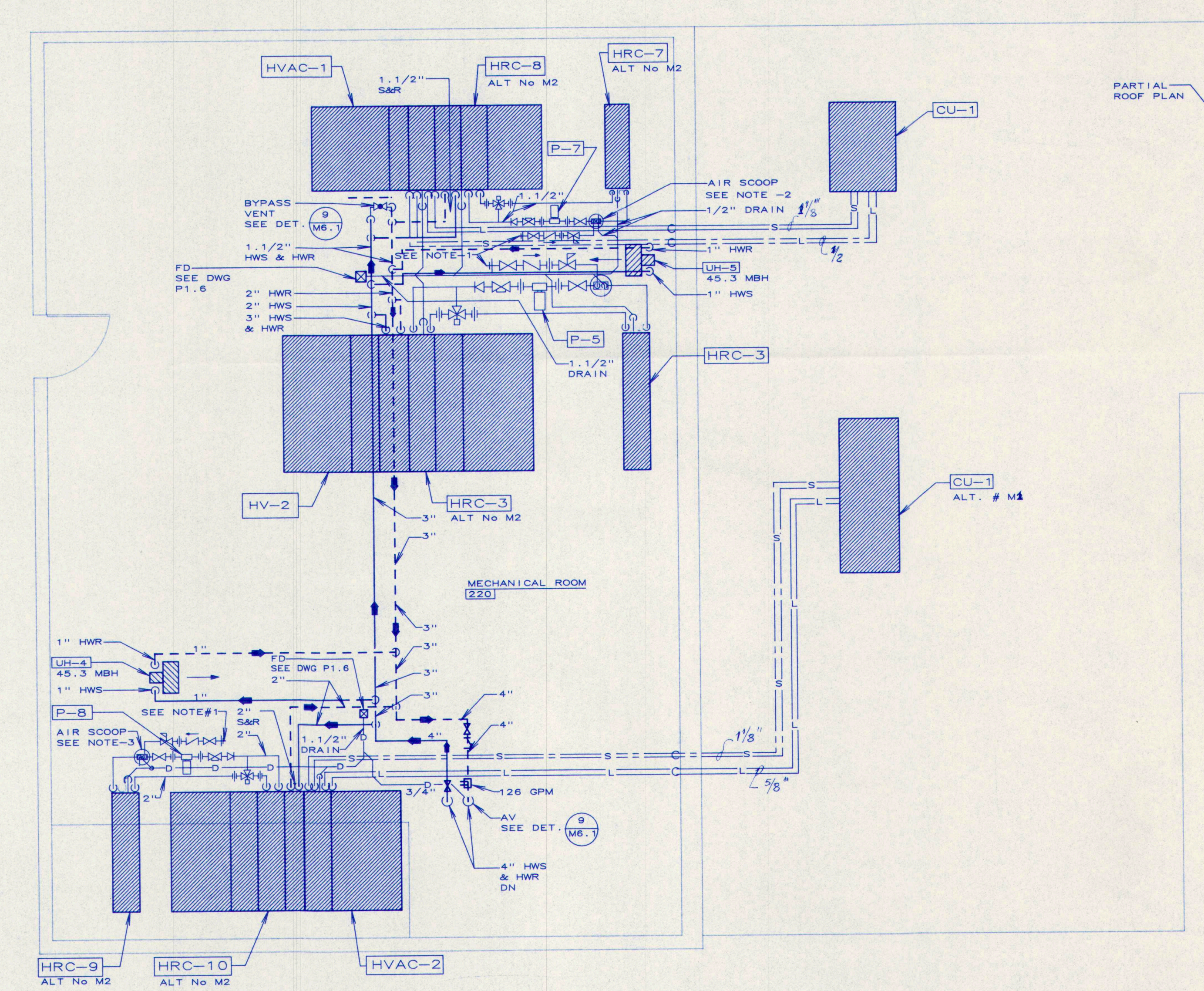
M4.7

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D D.6 D.9 E

8
8.4
9
10
11
12



1
M5.1
H&V MECHANICAL RM 220
PIPING PLAN
SCALE: 1/4"=1'-0"

- KEYED NOTES**
ALT No M2
- 3/4" HOSE BIBB WITH THREADED METAL CAP. FOR SYSTEM FILL FROM CW HOSE BIBB NEARBY BY P.C.
 - 1.1/2" IN-LINE AIR SEPARATOR w/AV AND 15 GALLON DIAPHRAM TYPE EXPANSION TANK.
 - 2" IN-LINE AIR SEPARATOR w/AV AND 20 GALLON DIAPHRAM TYPE EXPANSION TANK.

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Mabel I. Wilson School
Cumberland Center, Maine

STATE OF MAINE
HERBERT L. POWERS, JR.
NO. 2159
REGISTERED PROFESSIONAL ENGINEER

DATE: 05.28.1993

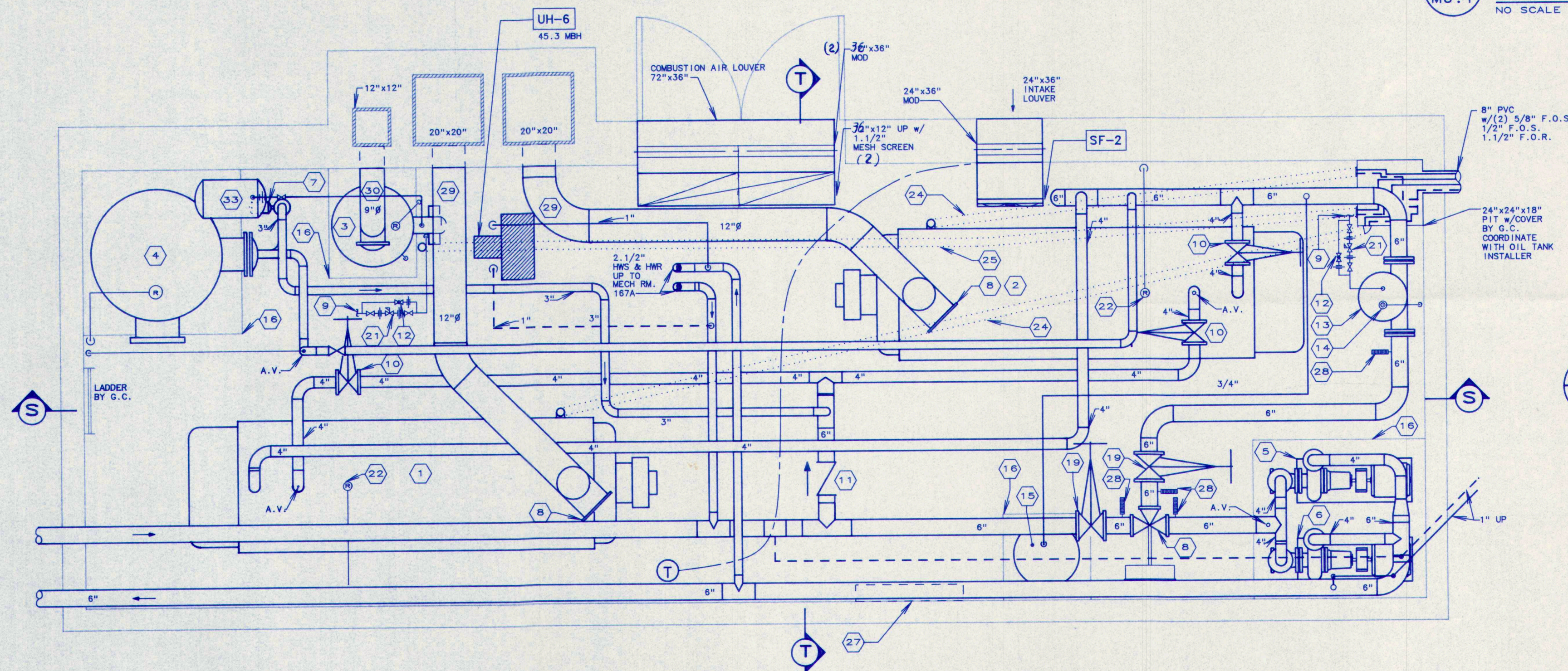
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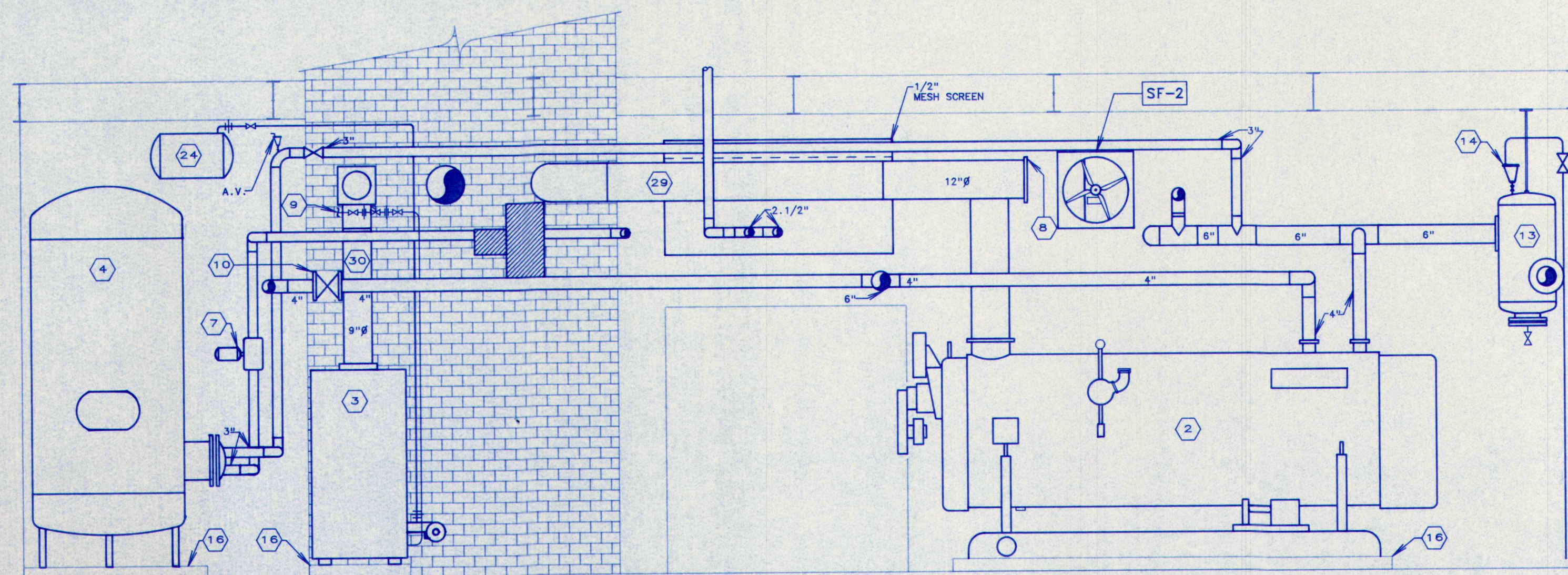
M5.1

KEY TO BOILER ROOM EQUIPMENT

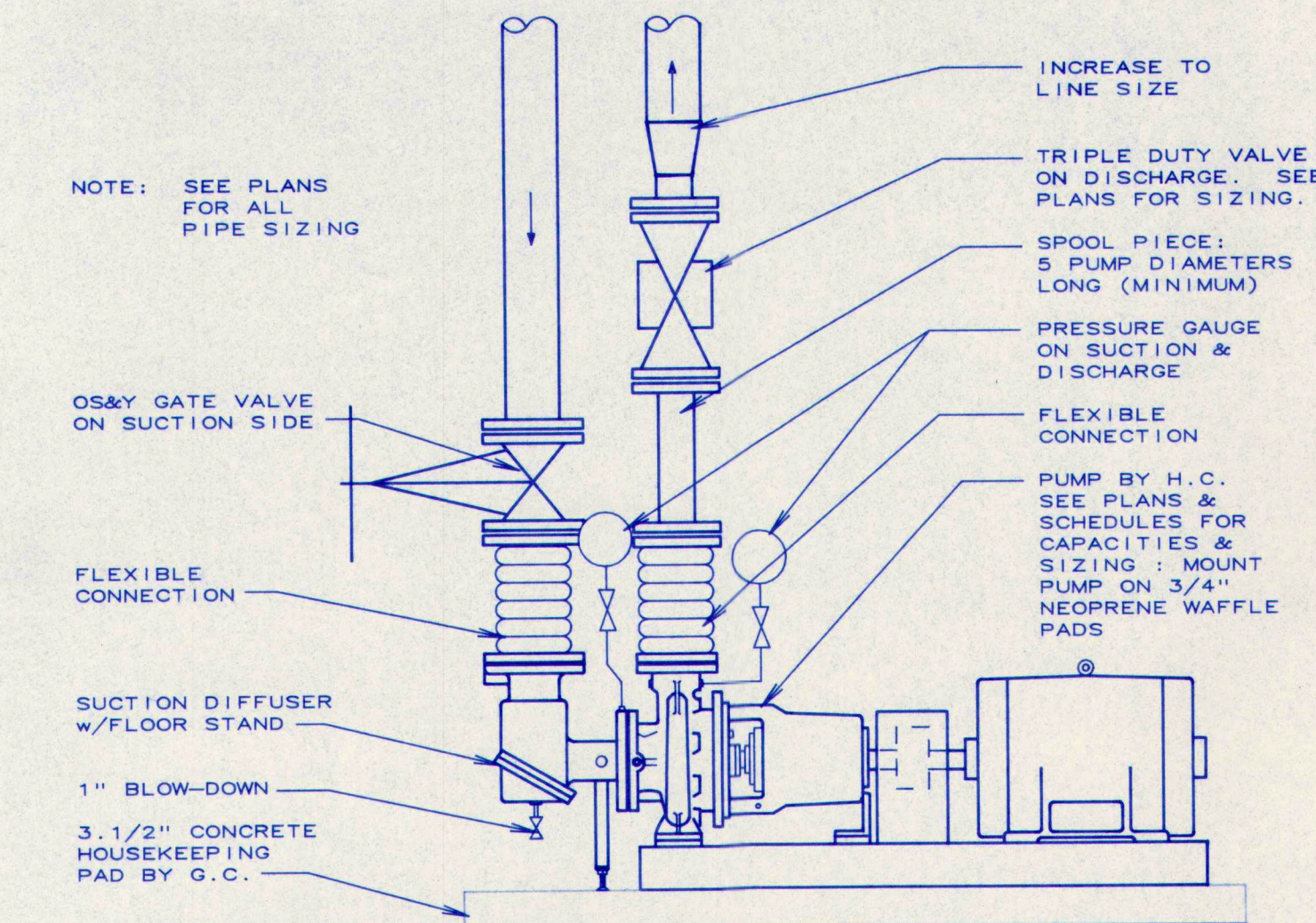
- | | | |
|---|---|--|
| <p>1 BOILER NET 2,678 MBH FOR No. 2 OIL 24 GPH BLOWER 2HP 208/60/3Ø OIL PUMP 1/3 HP W/ GAS IGNITION AIR COMPRESSOR 2 HP</p> <p>2 BOILER NET 2,678 MBH FOR No. 2 OIL 24 GPH BLOWER 2HP 208/60/3Ø OIL PUMP 1/3 HP W/ GAS IGNITION AIR COMPRESSOR 2 HP</p> <p>3 HOT WATER HEATER RECOVERY 475 GAL. W/BURNER 3.5 GPH 1/6 HP. 3450 RPM -115V-1Ø-60</p> <p>4 DOMESTIC HOT WATER STORAGE HEATER 960 GALLON STORAGE : 54"Ø x 108" H. HEAT 929 GPH FROM 40 DEGREES F. TO 140 DEGREES F. W/78.0 GPM BOILER WATER IN THE BUNDLE ENTERING AT 180 DEGREES F. AND LEAVING AT 160 DEGREES F. W/2.1" MAXIMUM WPD AQUASTAT SENSOR APPROX AT CENTER OF TANK</p> <p>5 PUMP No. 1 w/SUCTION DIFFUSER</p> <p>6 PUMP No. 2 w/SUCTION DIFFUSER</p> <p>7 PUMP No. 3</p> <p>8 CLEANOUT DOOR BY G.C.</p> <p>9 P.C. TO CONNECT HERE W/3/4" COLD WATER.</p> <p>10 4" OS&Y GATE VALVE</p> <p>11 6" CHECK VALVE</p> <p>12 3/4" GLOBE VALVE BYPASS</p> | <p>13 6" IN-LINE AIR SEPARATOR W/STRAINER AND 1" BLOW-DOWN GATE VALVE</p> <p>14 AUTOMATIC VENT WITH 1/2" DRAIN RUN TO WALL & DROP TO 6" AFF</p> <p>15 VERTICAL DIAPHRAGM TYPE EXPANSION TANK CHARGED TO 12.0 PSI. : 158 GALLON TANK VOLUME PROVIDE 3/4" DRAIN VALVE AT BOTTOM W/HOSE THREAD AND METAL CAP.</p> <p>16 4" CONCRETE HOUSEKEEPING PAD BY G.C.</p> <p>17 DELETED</p> <p>18 5" RESET WATER VALVE (3.5 PSI MAX. DROP).</p> <p>19 6" OS&Y GATE VALVE</p> <p>20 FLOW CONTROL VALVE</p> <p>21 3/4" PRV SET @ 25 PSI</p> <p>22 40 PSI PRESSURE RELIEF VALVE SUPPLIED WITH BOILER. PIPE DISCHARGE FULL SIZE OF VALVE OUTLET TO 6" AFF</p> <p>23 150 PSI TEMPERATURE & PRESSURE RELIEF VALVE SUPPLIED W/HEATER. PIPE DISCHARGE FULL SIZE OF VALVE OUTLET TO 6" AFF.</p> <p>24 3" PVC CONDUIT UNDER FLOOR WITH 5/8"Ø FOS & FOR</p> <p>25 3" PVC CONDUIT UNDER FLOOR WITH 1/2" Ø FOS & FOR</p> | <p>26 ELECTRONIC TANK LEVEL GAUGE MOUNTED ON 3/4" PLYWOOD BACKER ON WALL (BOTH BY H.C.).</p> <p>27 TEMPERATURE CONTROL PANEL BY T.C.</p> <p>28 THERMOMETER</p> <p>29 12"Ø GA. WELDED SMOKE PIPE. H.C. TO PROVIDE CHIMNEY THIMBLES FOR G.C. TO INSTALL.</p> <p>30 9"Ø SMOKE PIPE W/BAROMETRIC DAMPER H.C. TO PROVIDE CHIMNEY THIMBLE FOR G.C. TO INSTALL.</p> <p>31 3/4" GATE VALVE</p> <p>32 LOW WATER CUT OFF</p> <p>33 HORIZONTAL EXPANSION TANK No. 2 15 GAL.</p> |
|---|---|--|



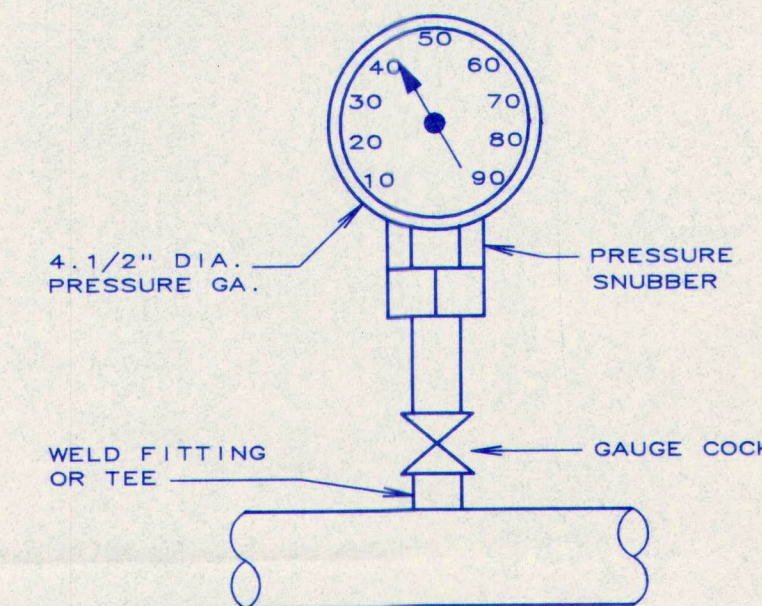
1 BOILER ROOM PLAN
M6.1
SCALE: 3/8"=1'-0"



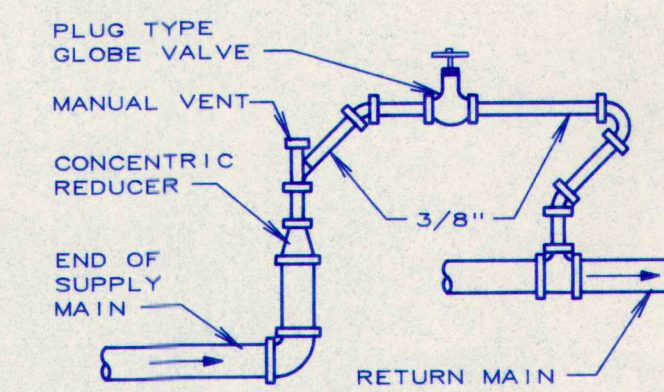
2 SECTION S-S
M6.1
SCALE: 3/8"=1'-0"



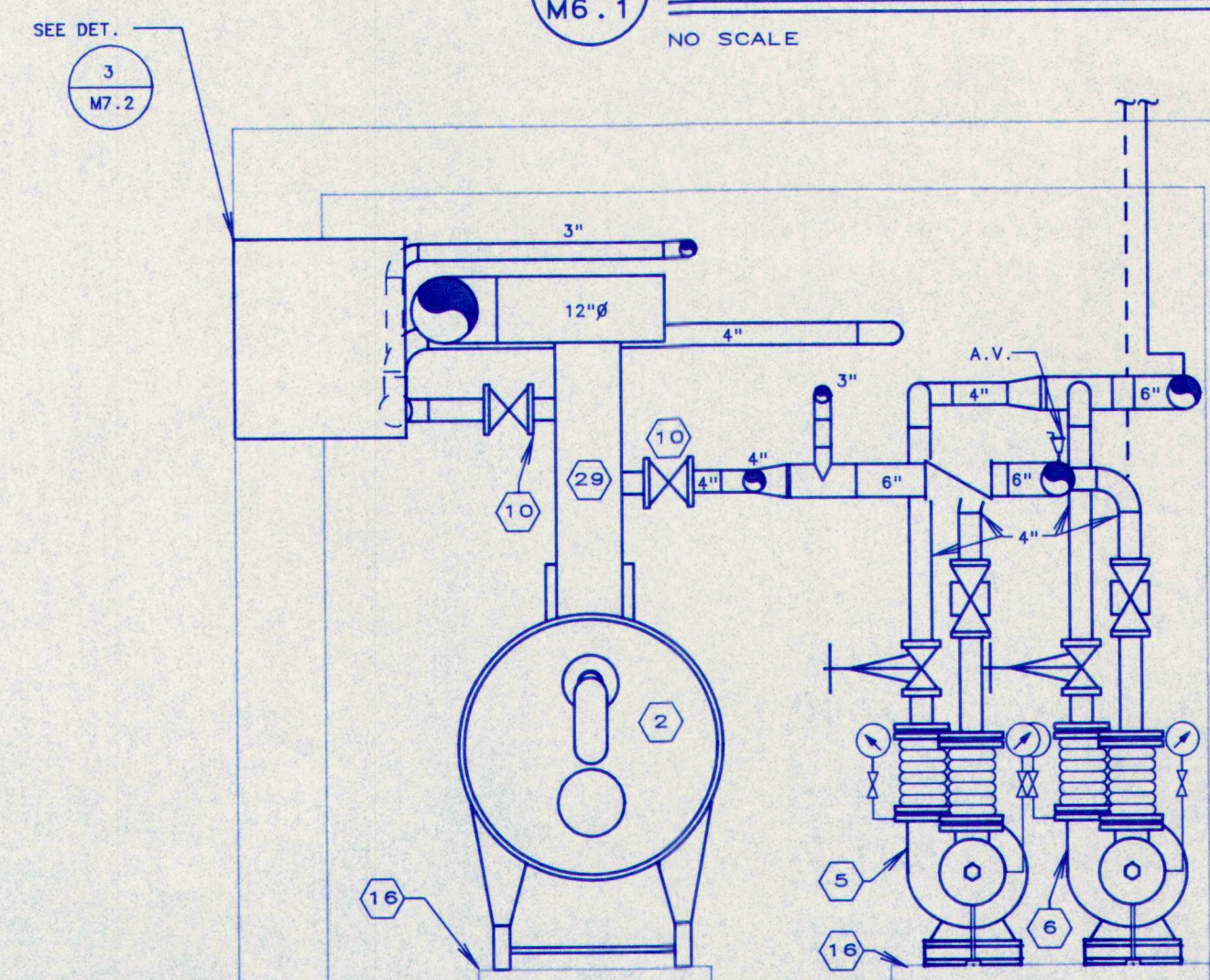
4 BASE MOUNTED PUMP DETAIL
M6.1
NO SCALE



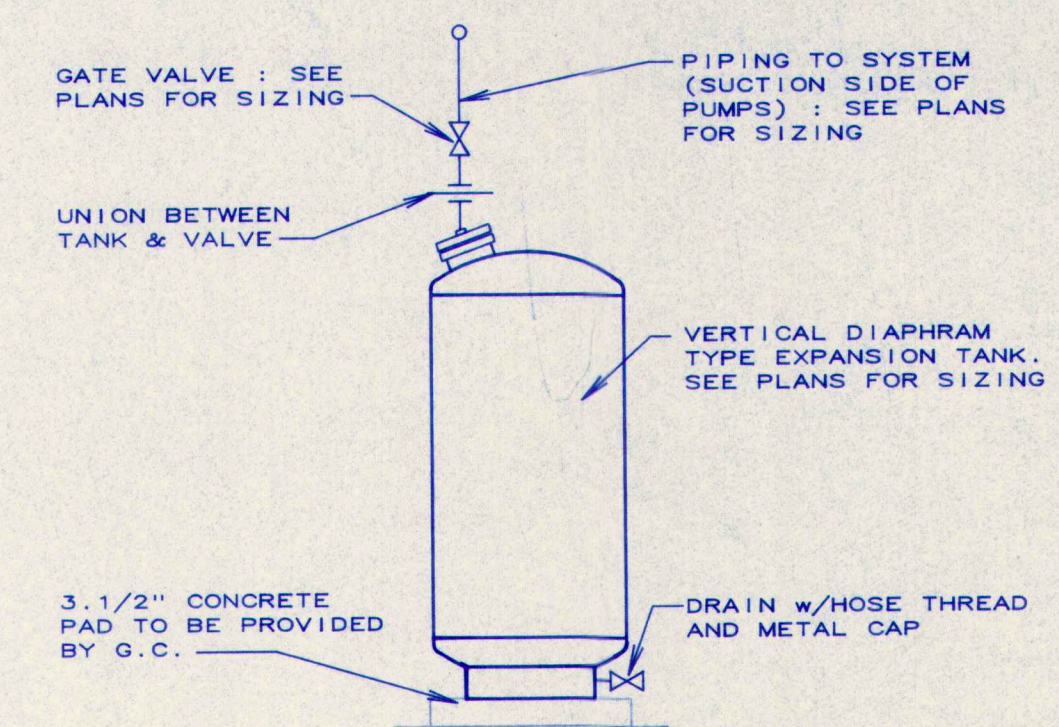
6 WATER PRESSURE GAUGE DETAIL
M6.1
NO SCALE



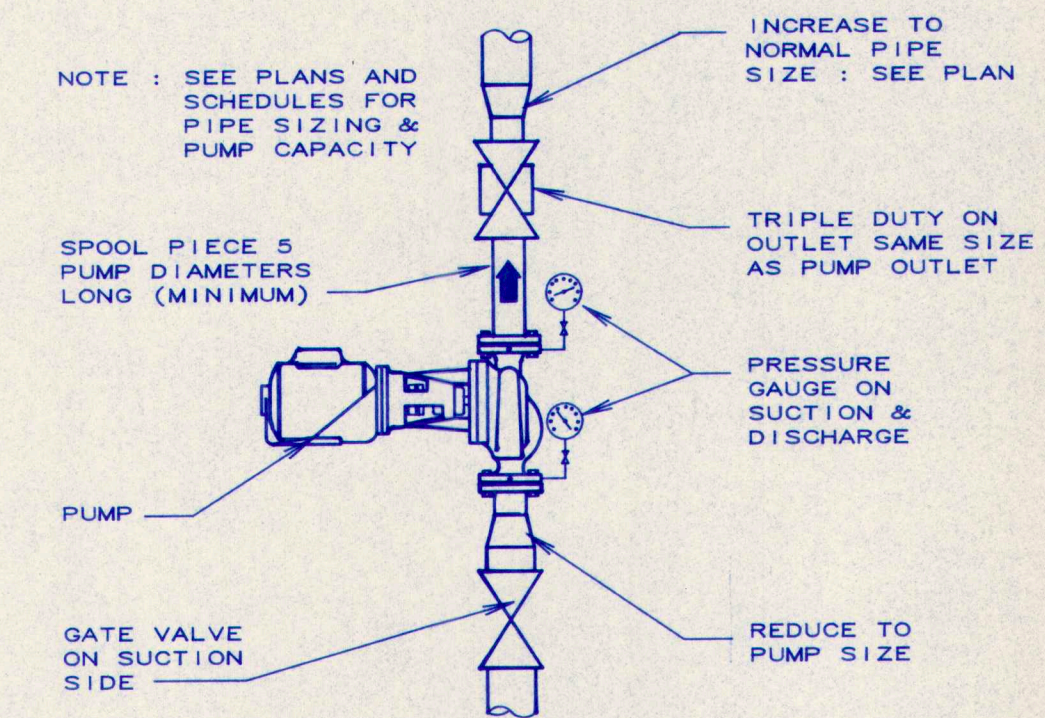
8 BYPASS VENT
M6.1
NO SCALE



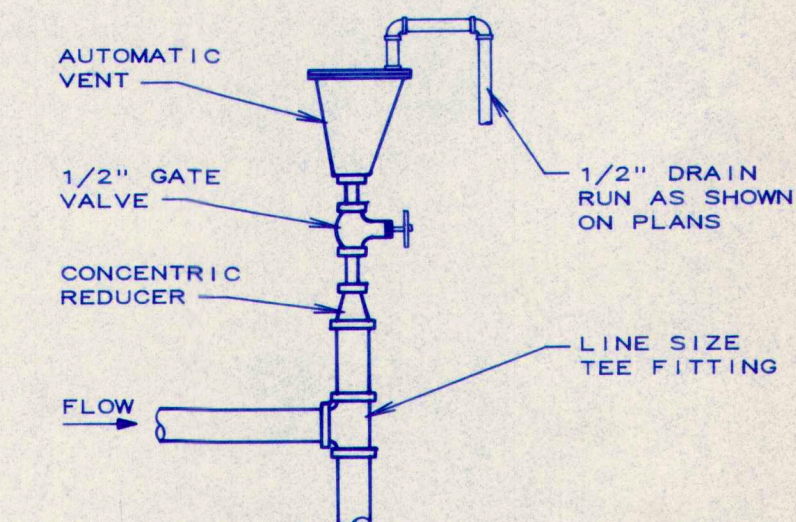
3 SECTION T-T
M6.1
SCALE: 3/8"=1'-0"



5 DIAPHRAGM TYPE EXPANSION TANK
M6.1
NO SCALE



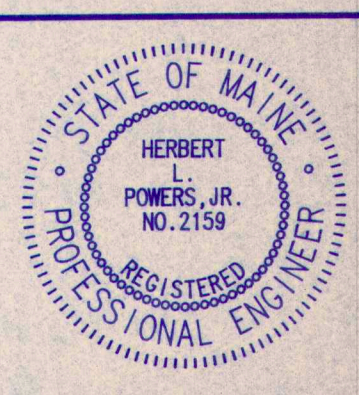
7 IN-LINE PUMP DETAIL
M6.1
NO SCALE



9 AUTOMATIC VENT
M6.1
NO SCALE

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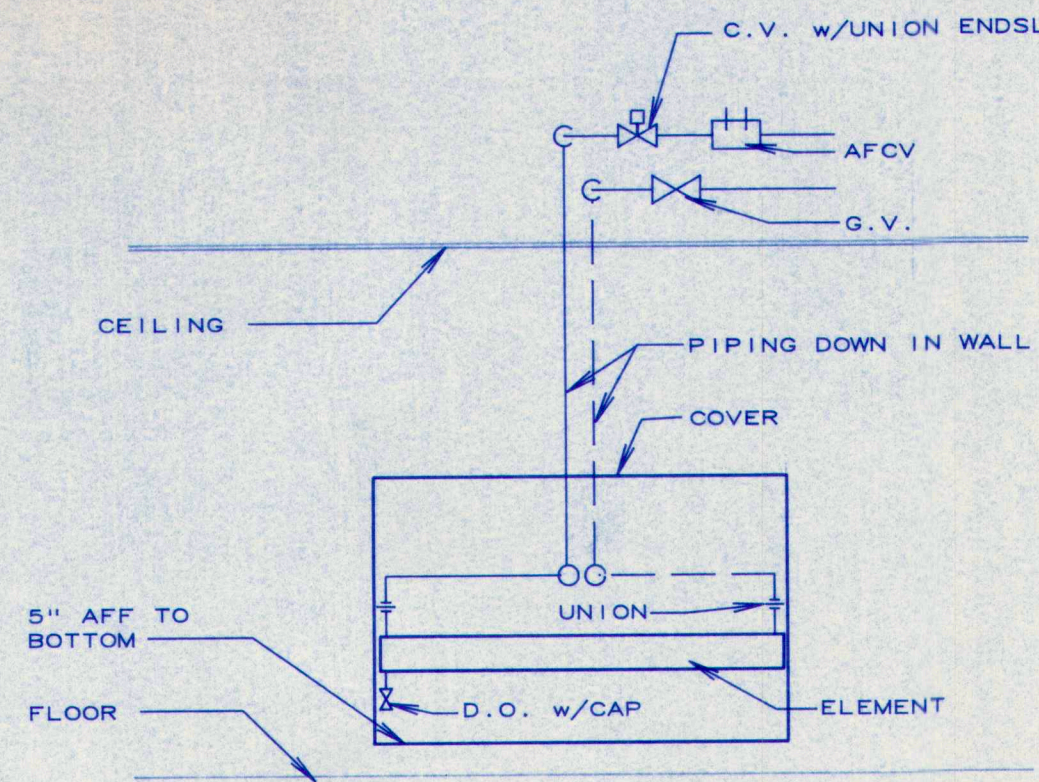
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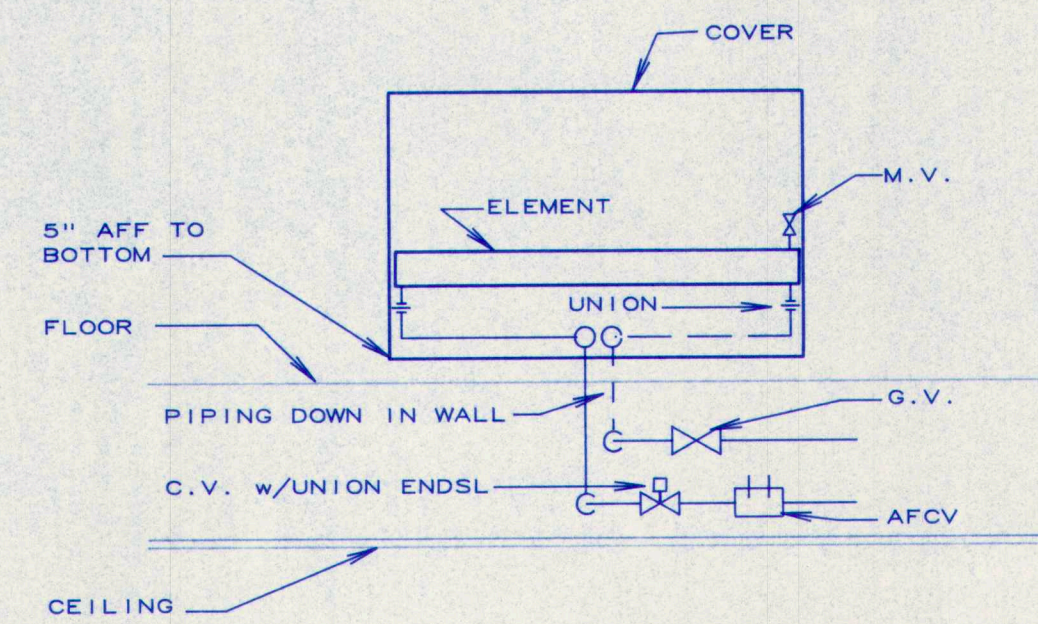
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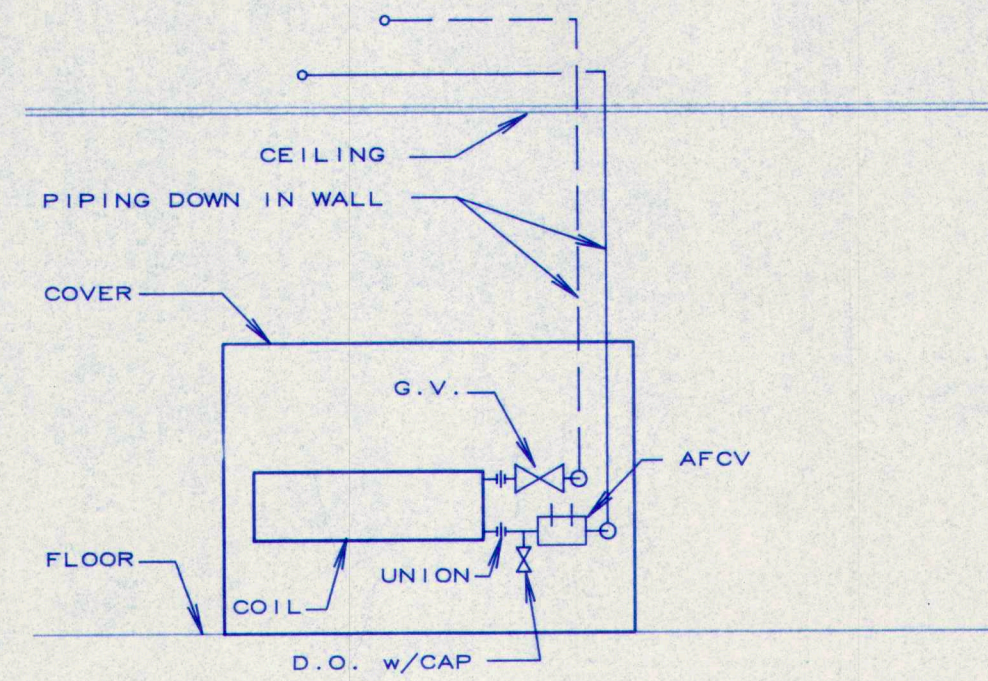
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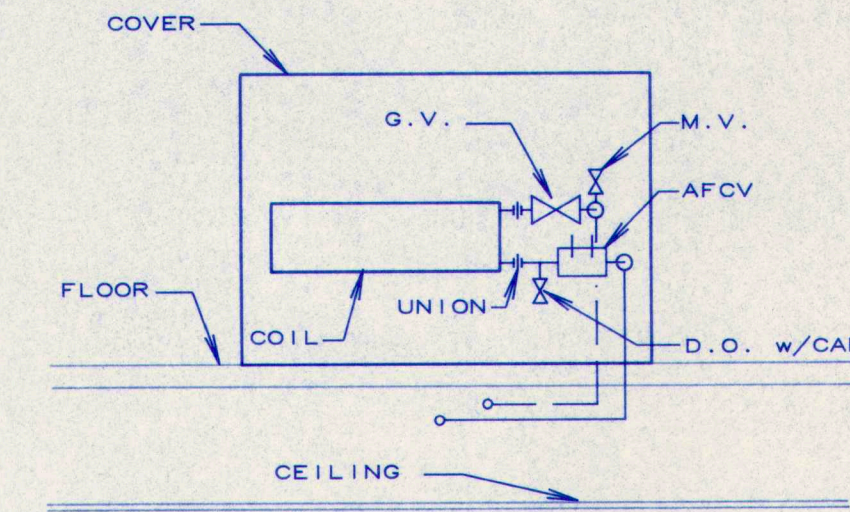
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M7.1
DOWNFEED CONVECTOR
NO SCALE



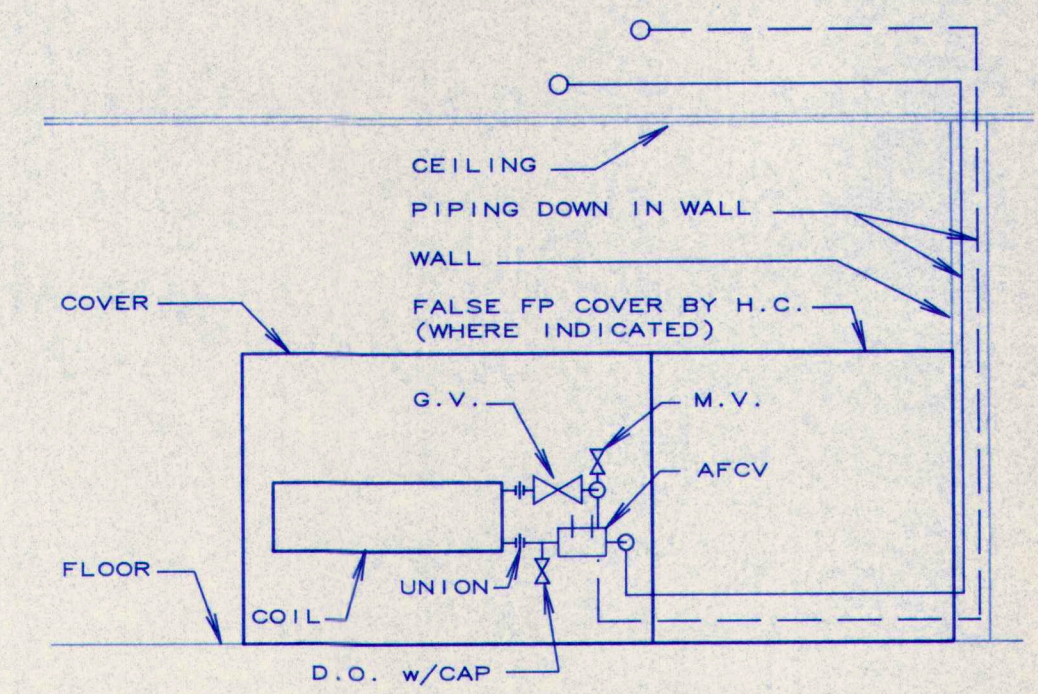
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M7.1
UPFEED CONVECTOR
NO SCALE



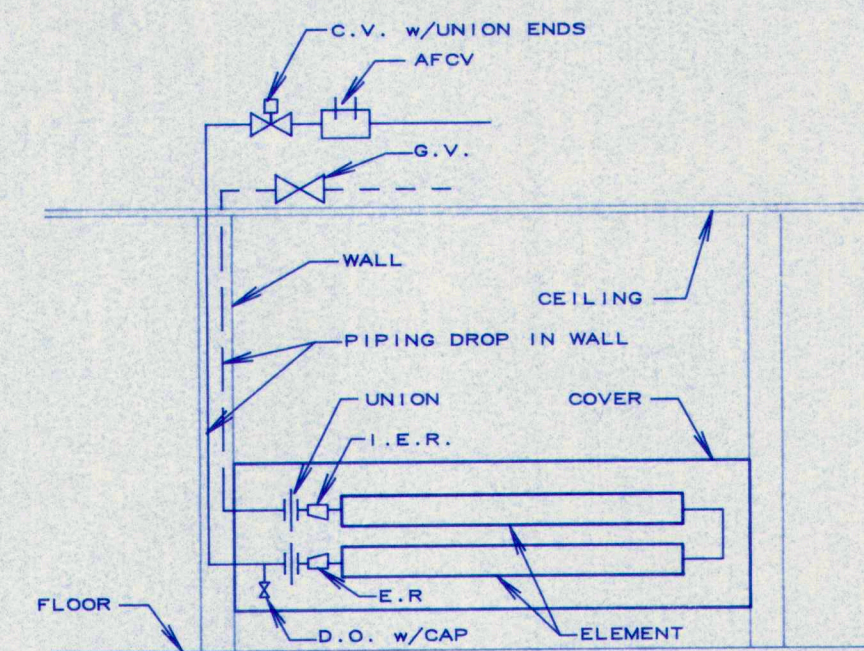
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M7.1
DOWNFEED CABINET
UNIT HEATER
NO SCALE



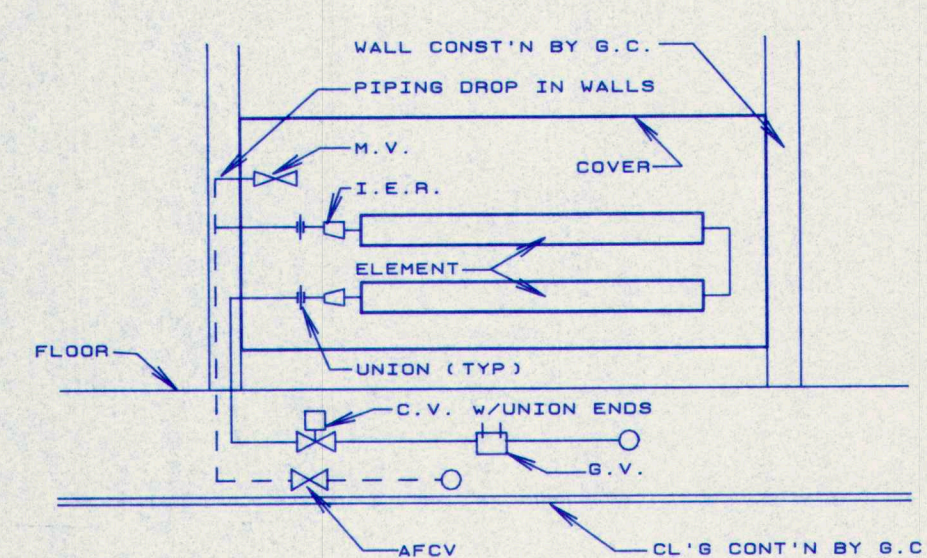
4
M7.1
UPFEED CABINET
UNIT HEATER
NO SCALE



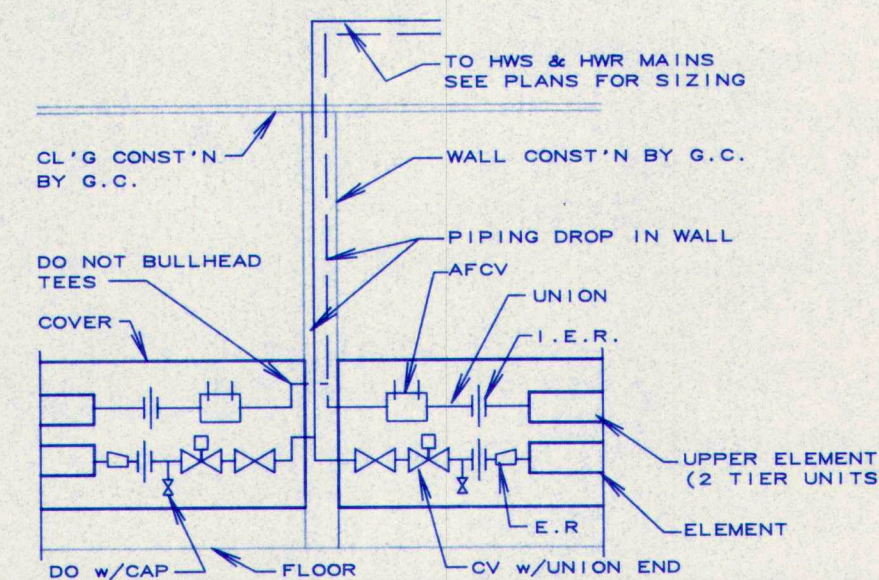
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M7.1
DOWNFEED UNIT
VENTILATOR PIPING
NO SCALE



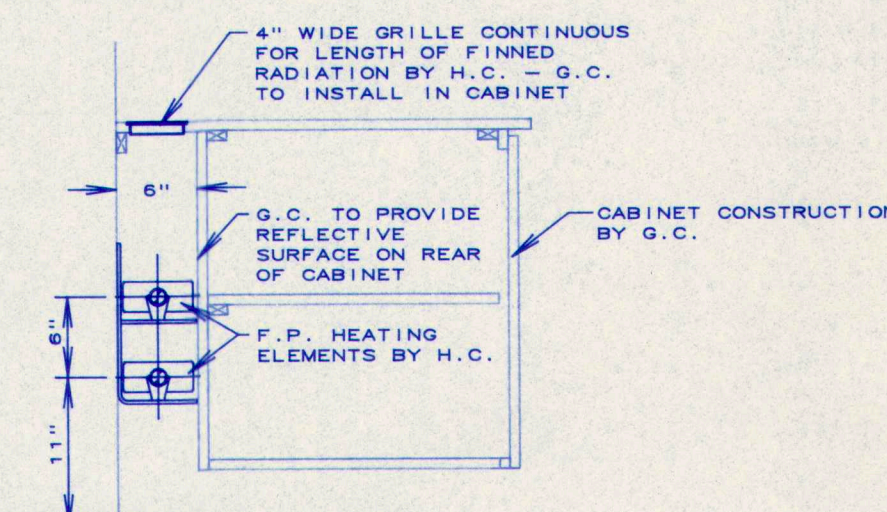
6
M7.1
DOWNFEED FINNED PIPE
TWO TIER ELEMENT
NO SCALE



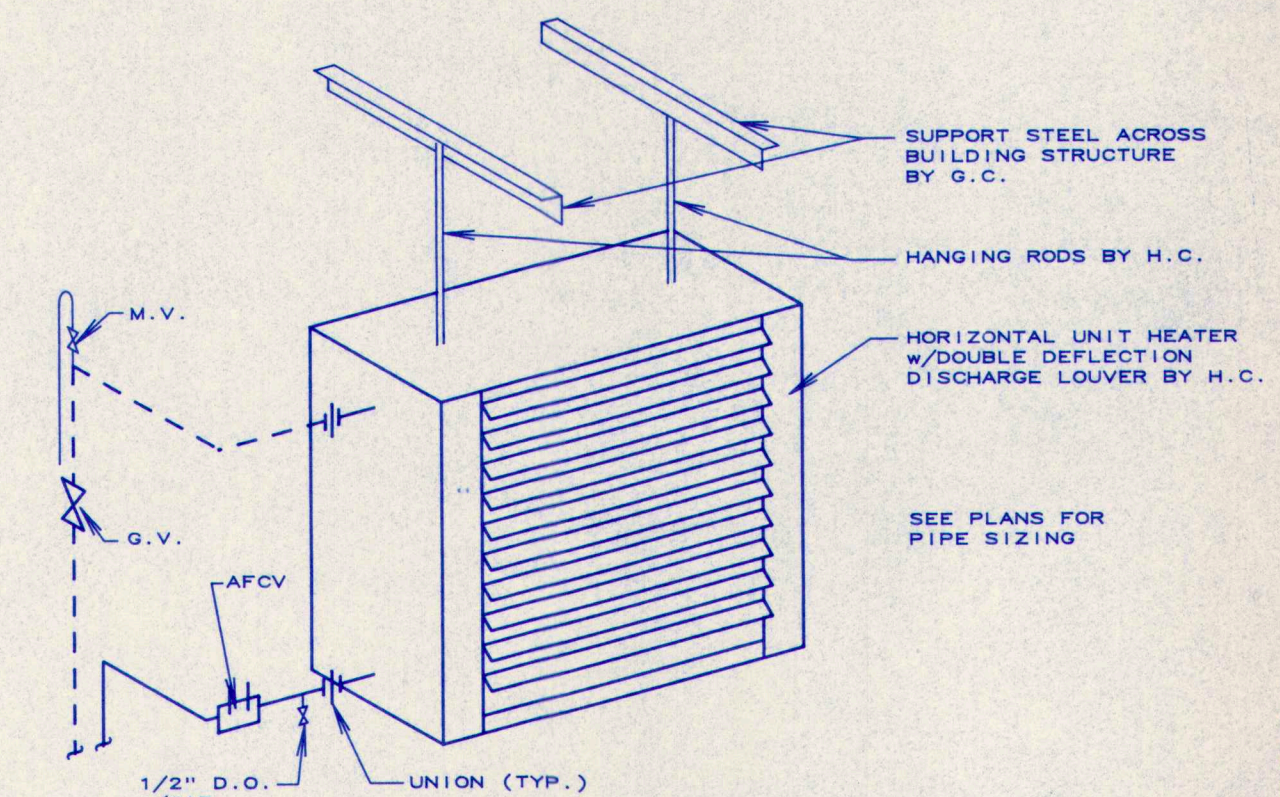
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M7.1
UPFEED FINNED PIPE
TWO TIER ELEMENT
NO SCALE



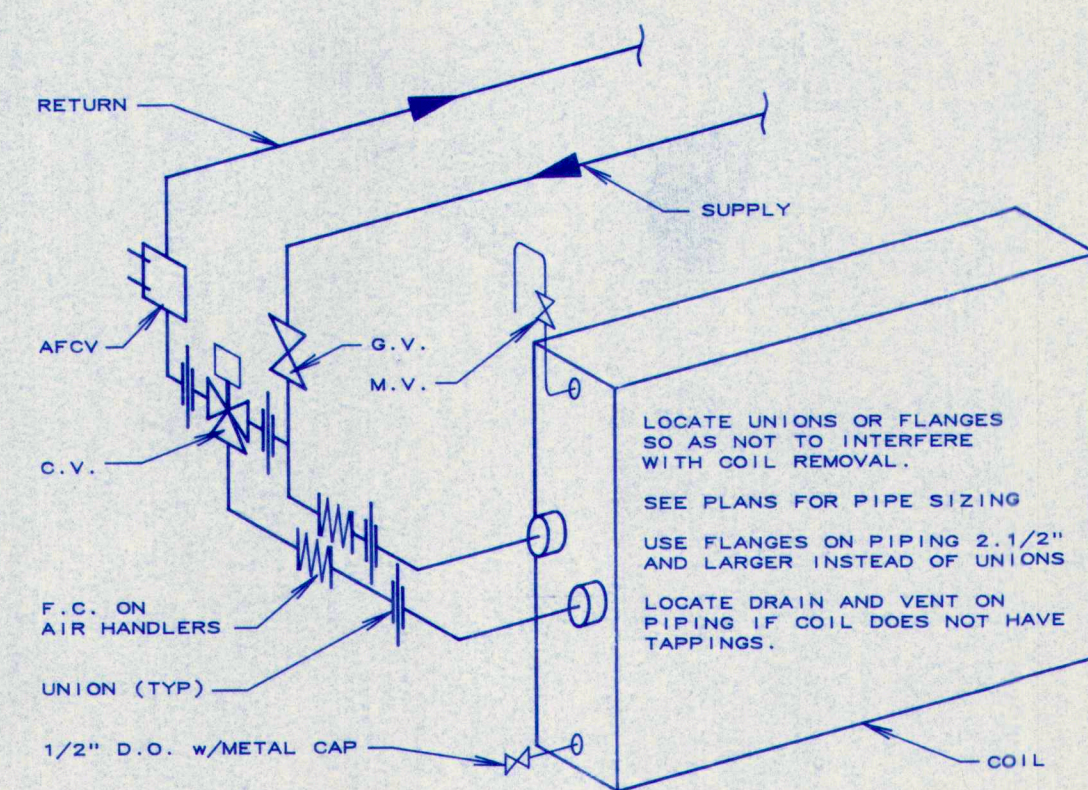
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M7.1
DOWNFEED FINNED PIPE
TWO WAY FEED
NO SCALE



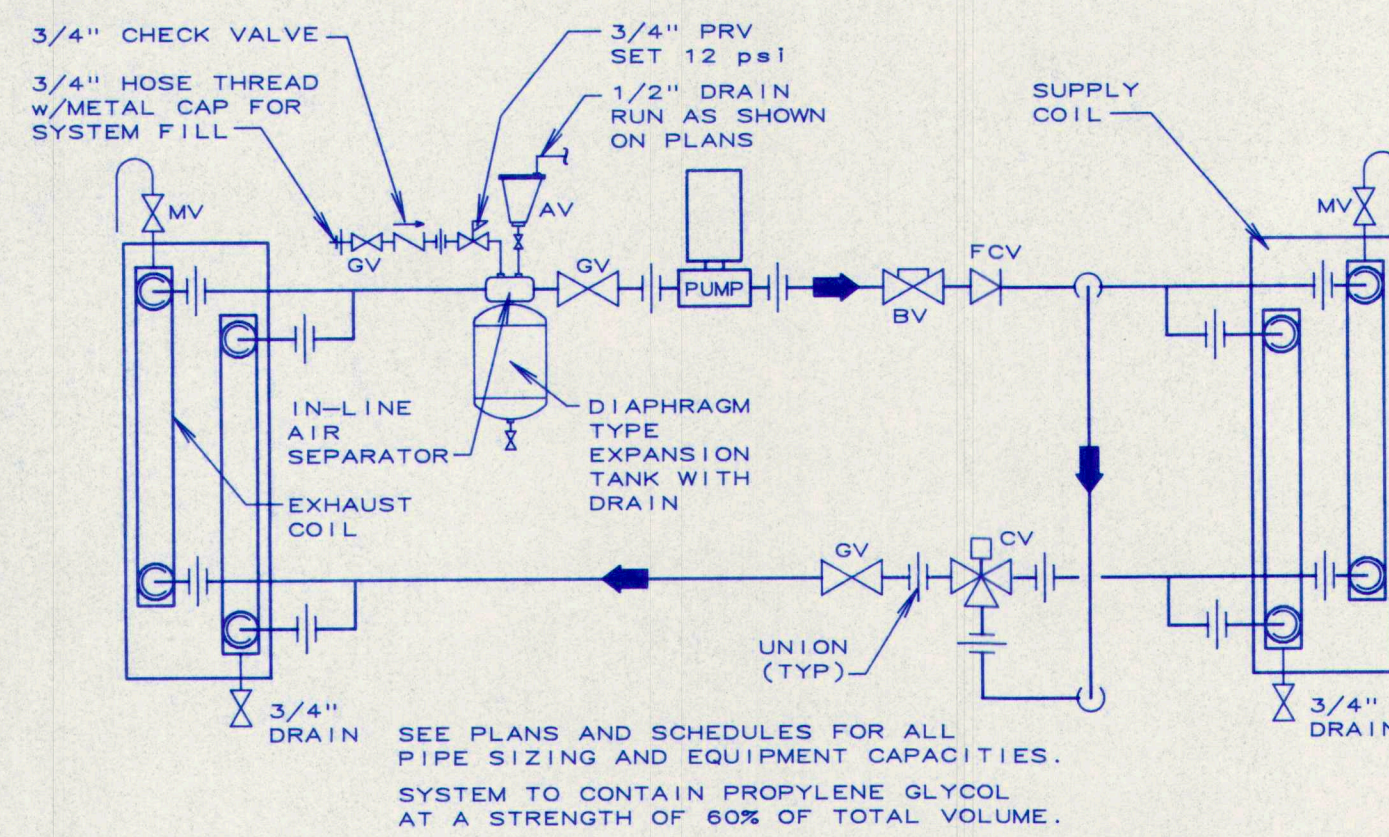
9
M7.1
FINNED PIPE
STYLE "B"
SCALE: 1" = 1'-0"



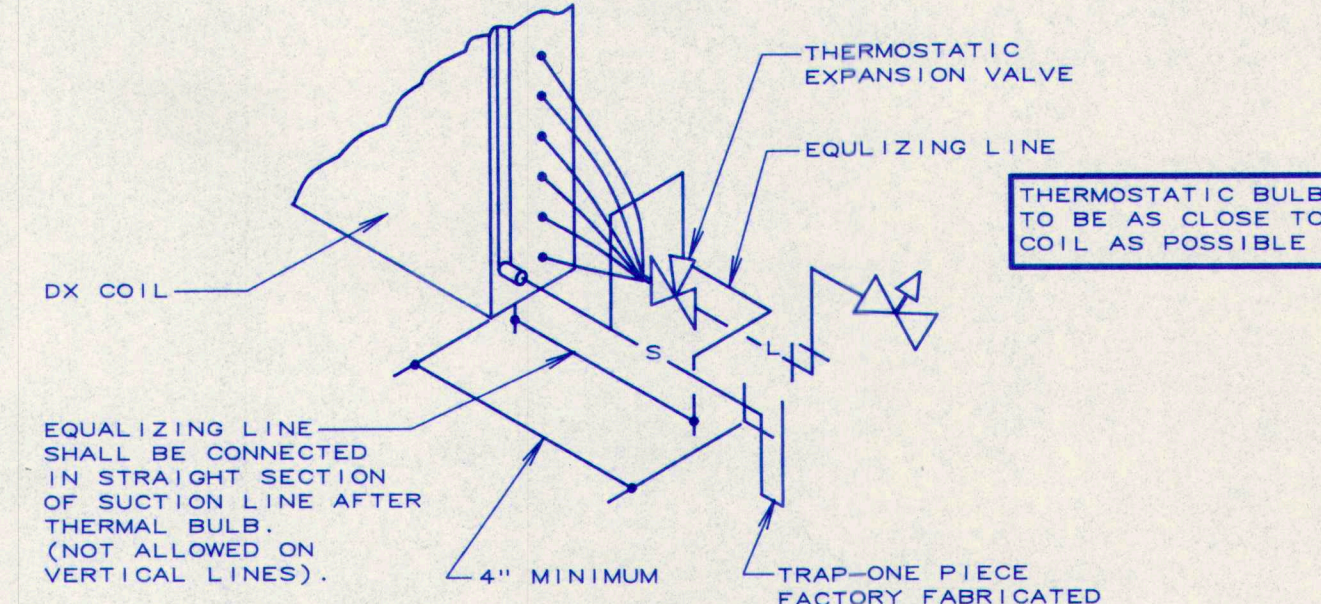
10
M7.1
HORIZONTAL UNIT HEATER
NO SCALE



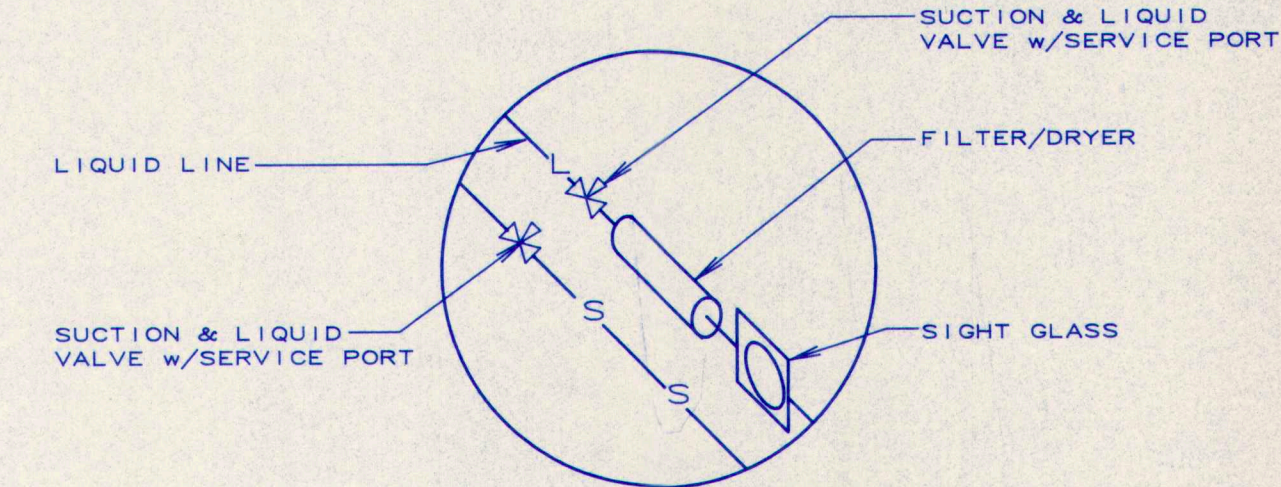
11
M7.1
HOT WATER COIL PIPING
NO SCALE



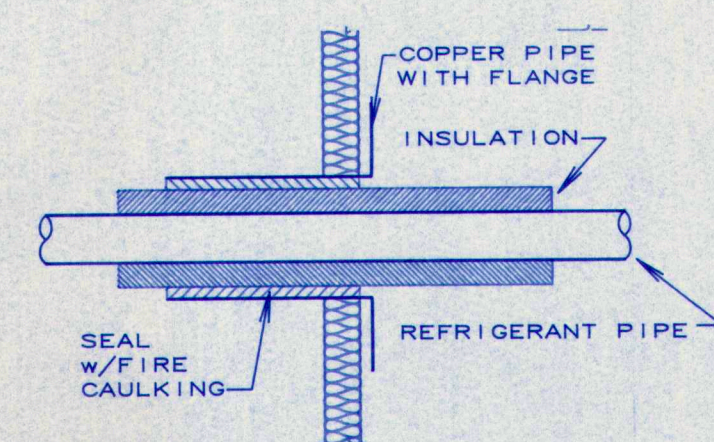
12
M7.1
HEAT RECOVERY COIL
PIPING DETAIL
NO SCALE



13
M7.1
REFRIGERANT COIL
CONNECTION DETAILS
NO SCALE



14
M7.1
CONDENSING UNIT
PIPE CONNECTION
NO SCALE



15
M7.1
REFRIGERANT PIPE
THRU EXTERIOR WALL

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STATE OF MAINE
HERBERT L. POWERS, JR.
REGISTERED PROFESSIONAL ENGINEER
NO. 2159

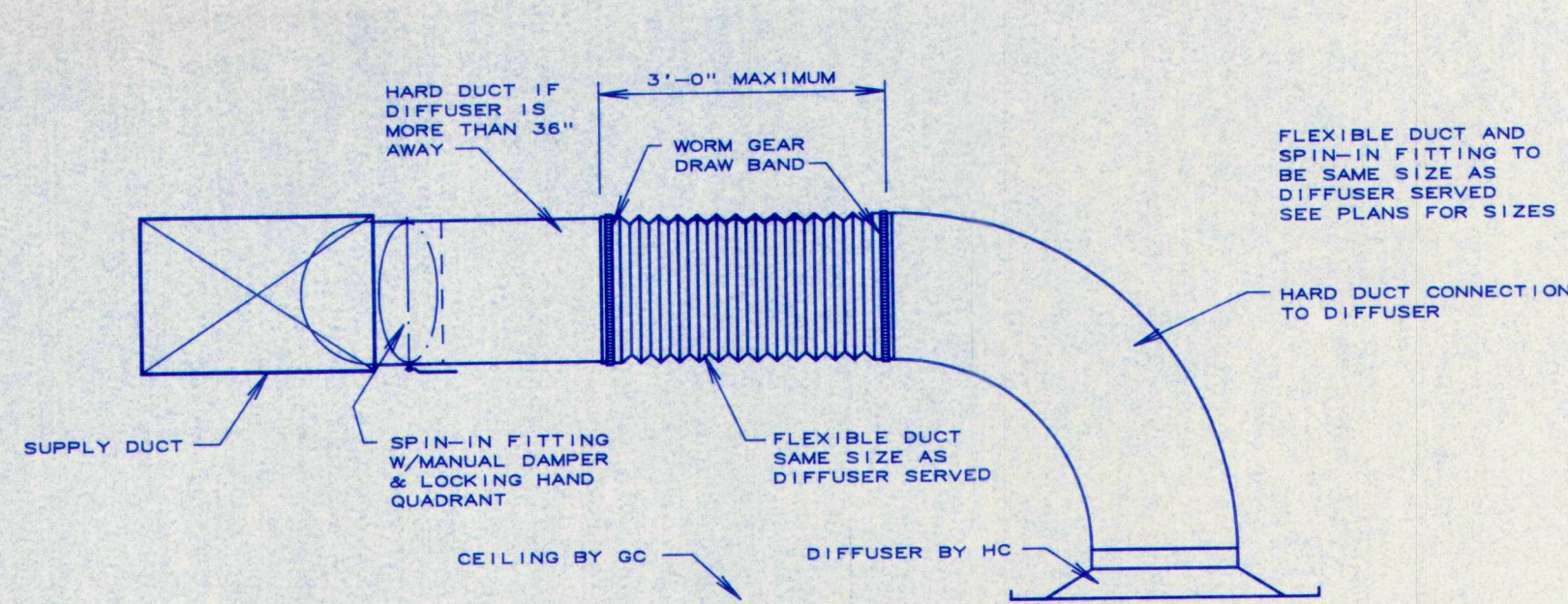
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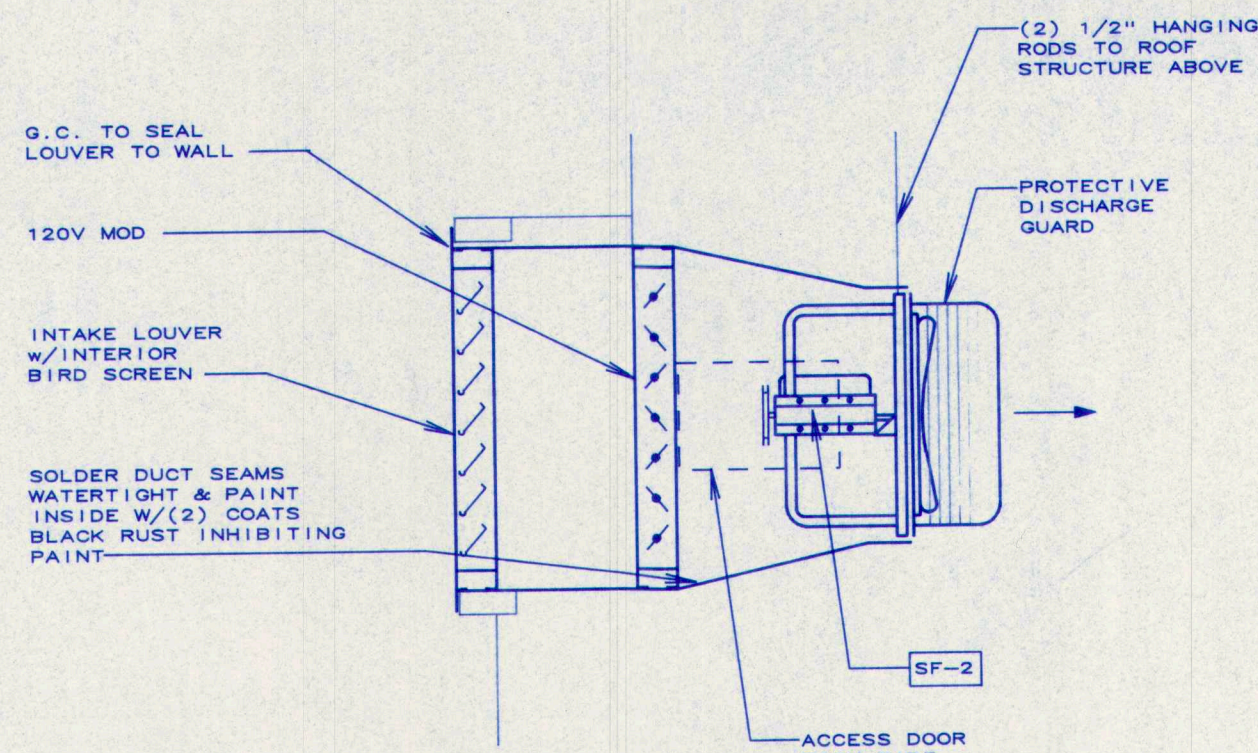
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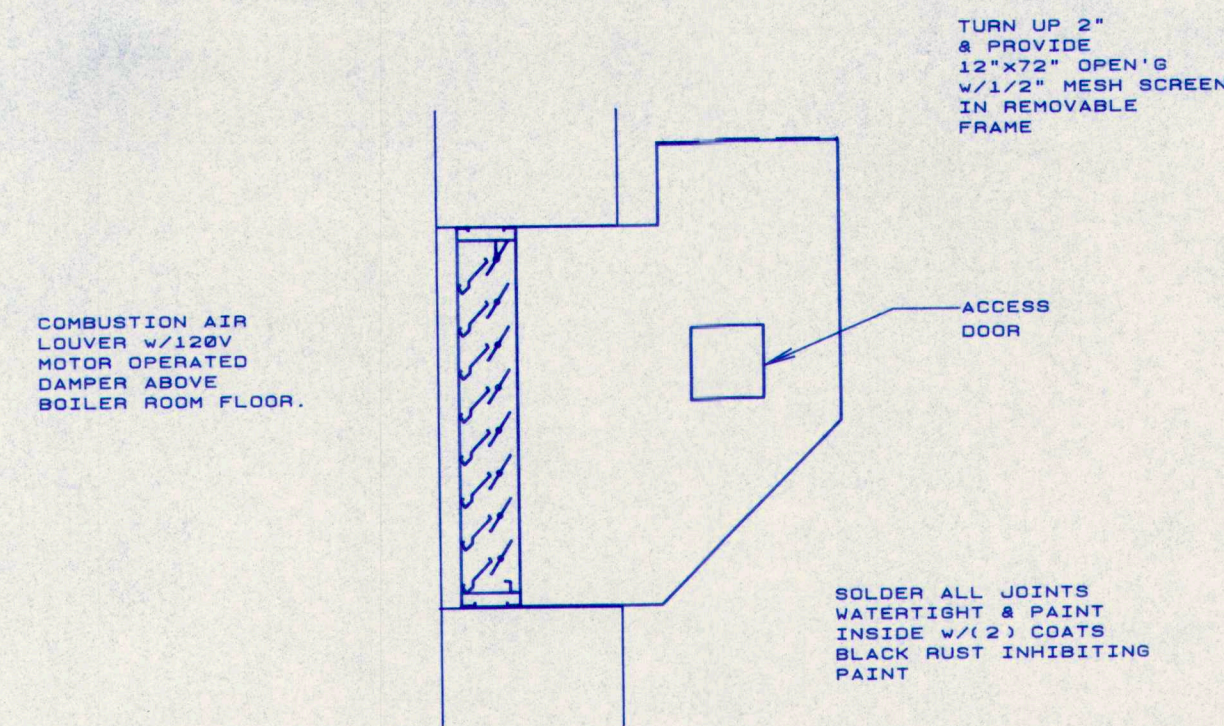
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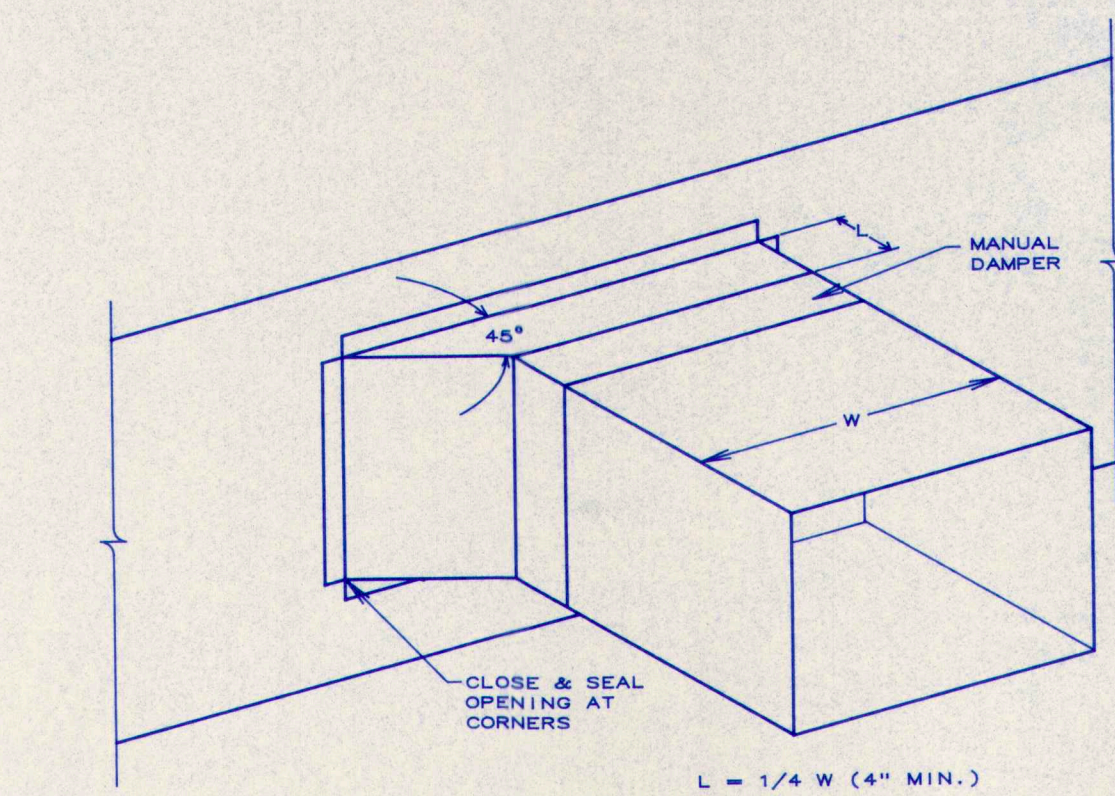
1
M7.2 **FLEXIBLE DUCT & DIFFUSER CONNECTION DETAIL**
NO SCALE



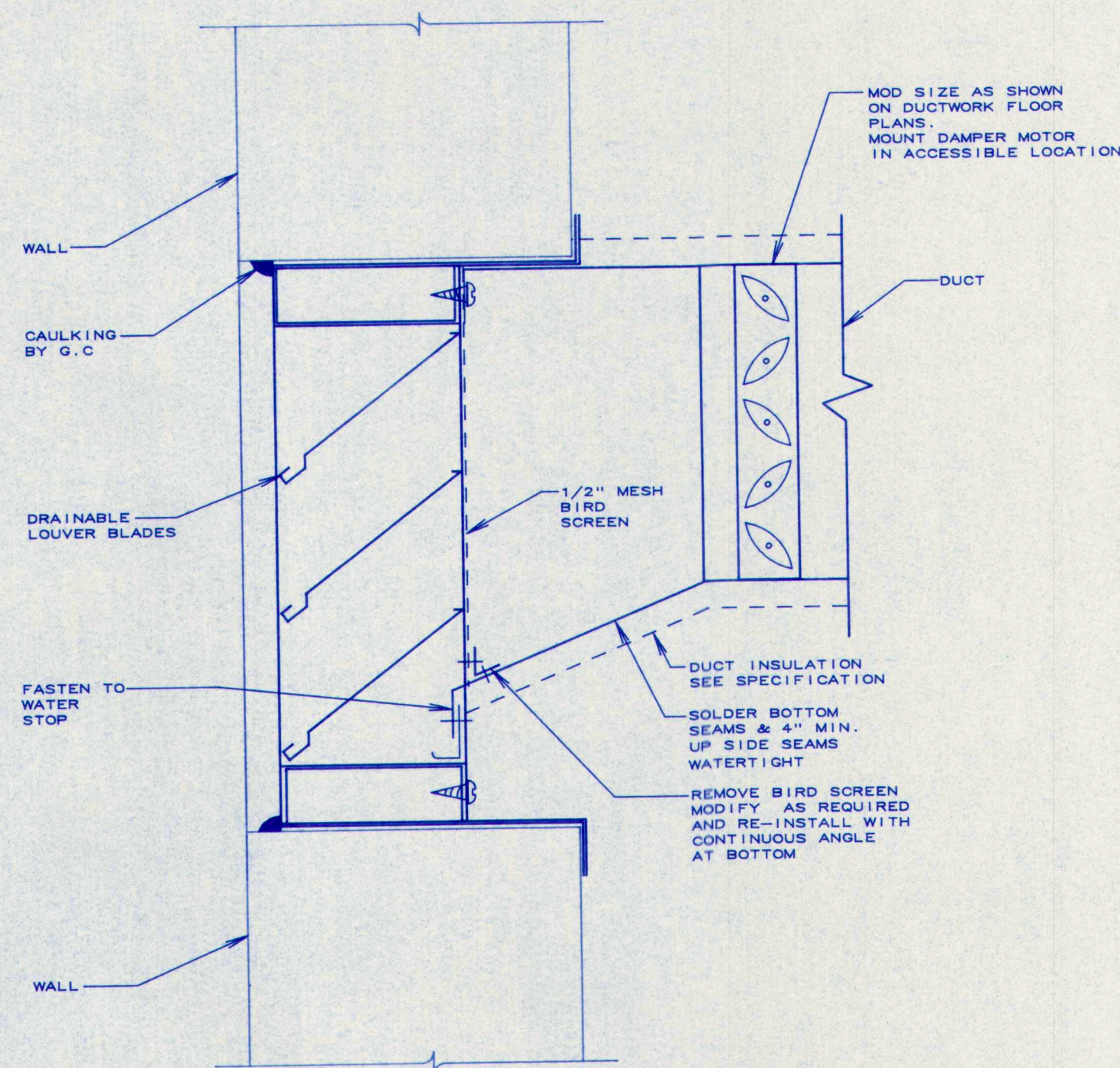
2
M7.2 **SUPPLY FAN #2**
NO SCALE



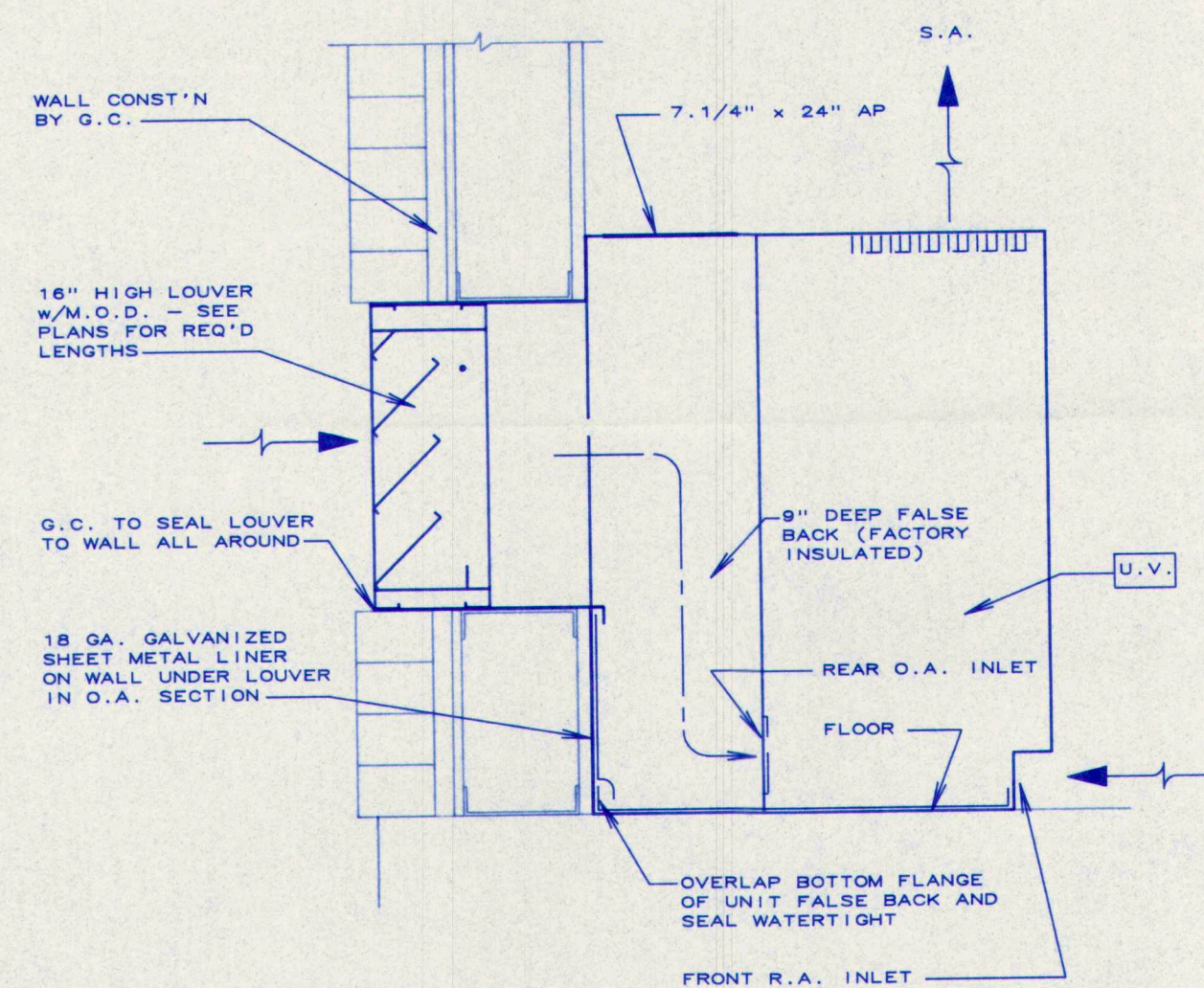
3
M7.2 **BOILER ROOM COMBUSTION AIR LOUVER DETAIL**
NO SCALE



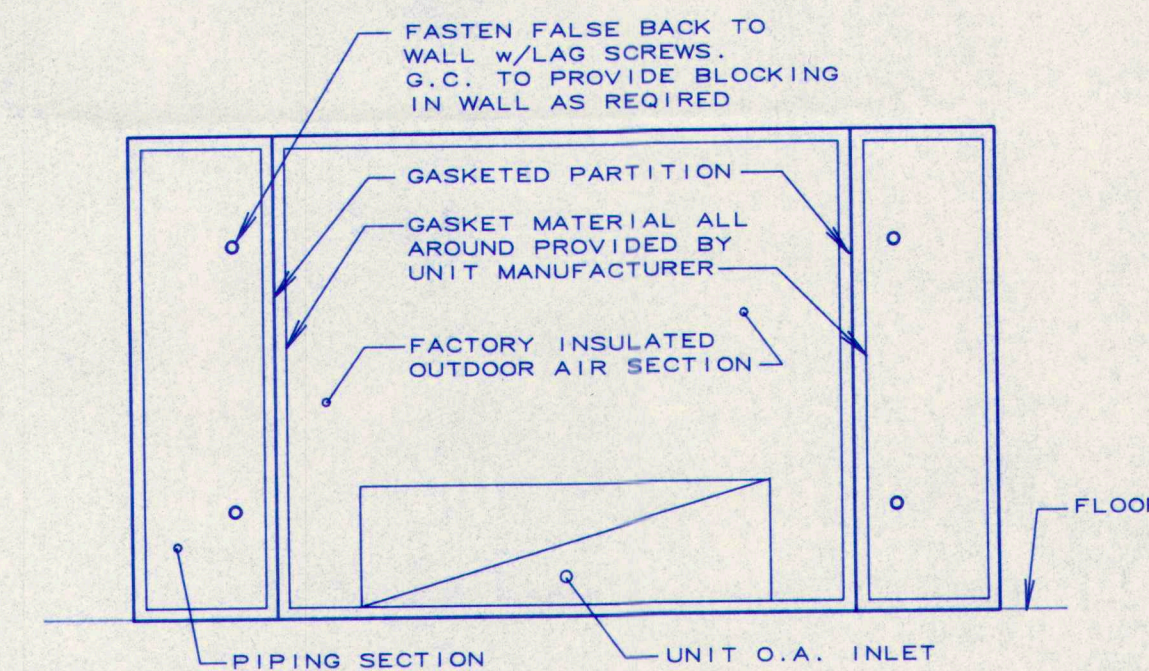
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M7.2 **BRANCH DUCT CONNECTION**
NO SCALE



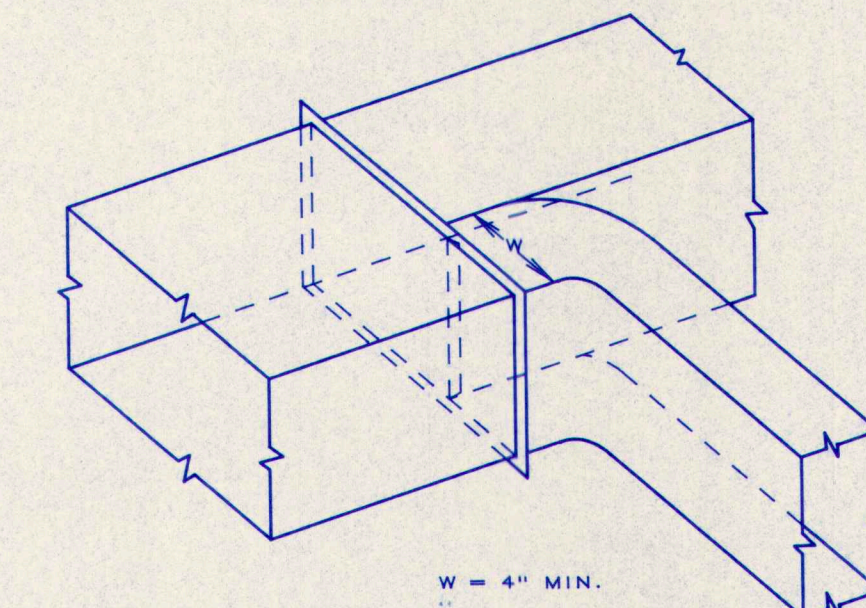
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M7.2 **EXTERIOR LOUVER DETAIL**
NO SCALE



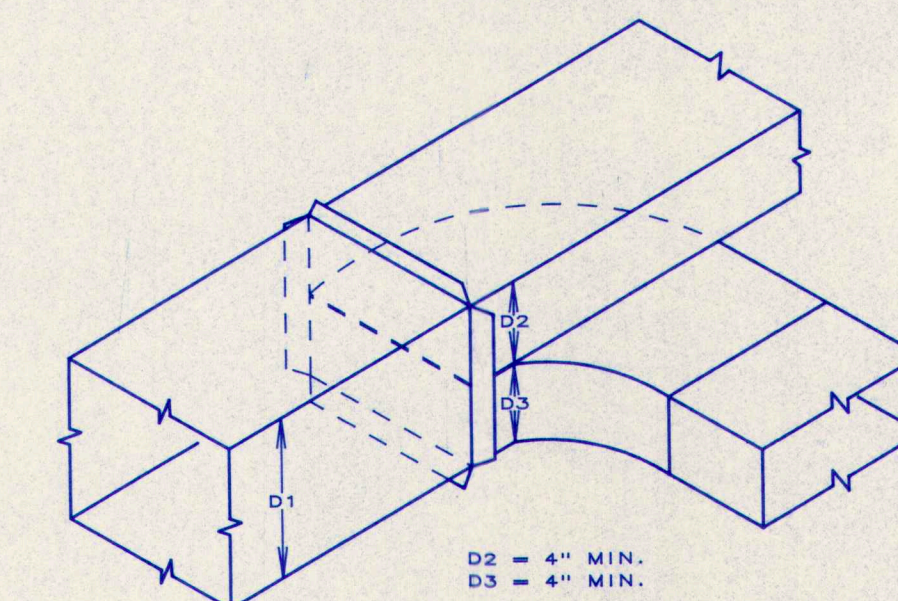
6
M7.2 **SECTION AT TYPICAL UNIT VENTILATOR**
SCALE: 1.1/2\"/>



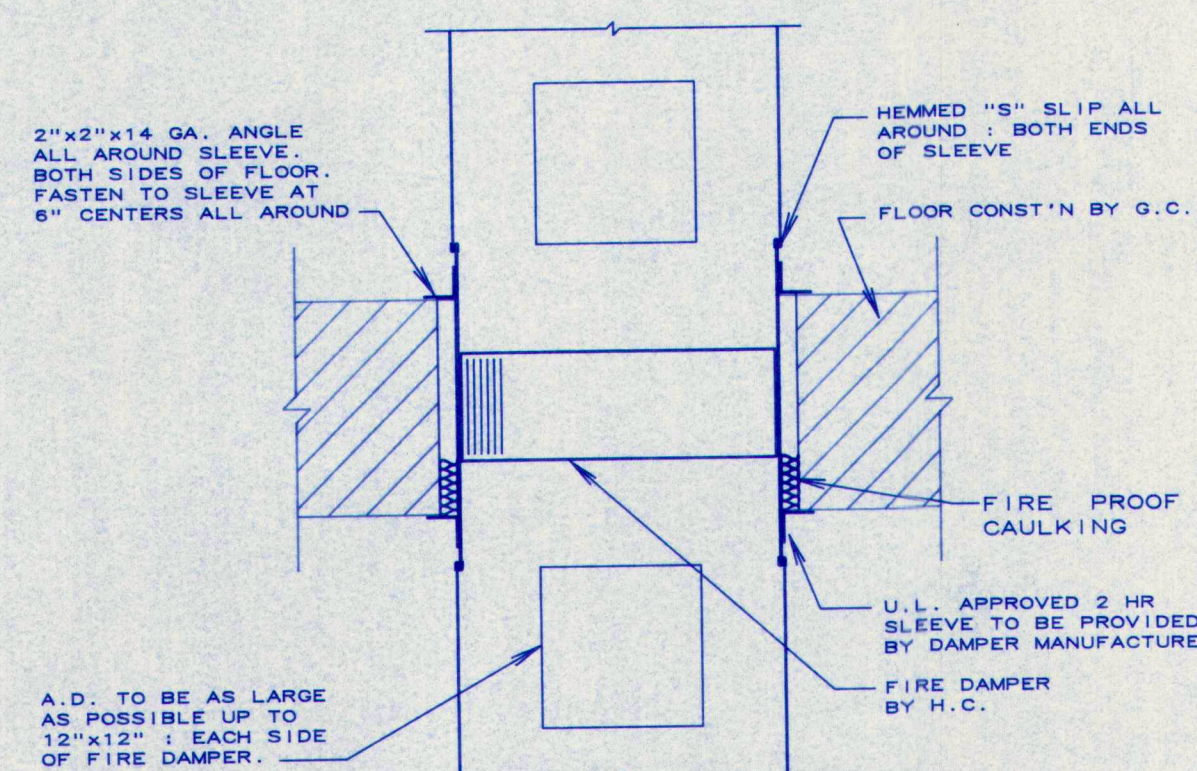
7
M7.2 **UNIT VENTILATOR O.A. FALSE BACK**
NO SCALE



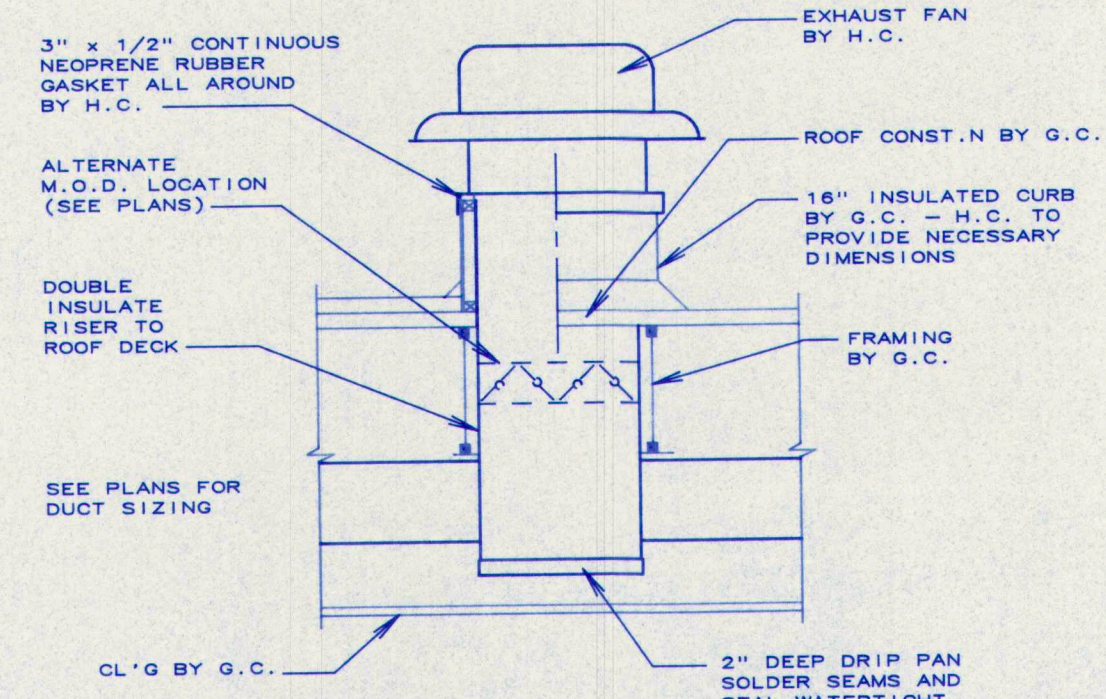
8
M7.2 **PARALLEL FLOW DUCT BRANCH**
NO SCALE



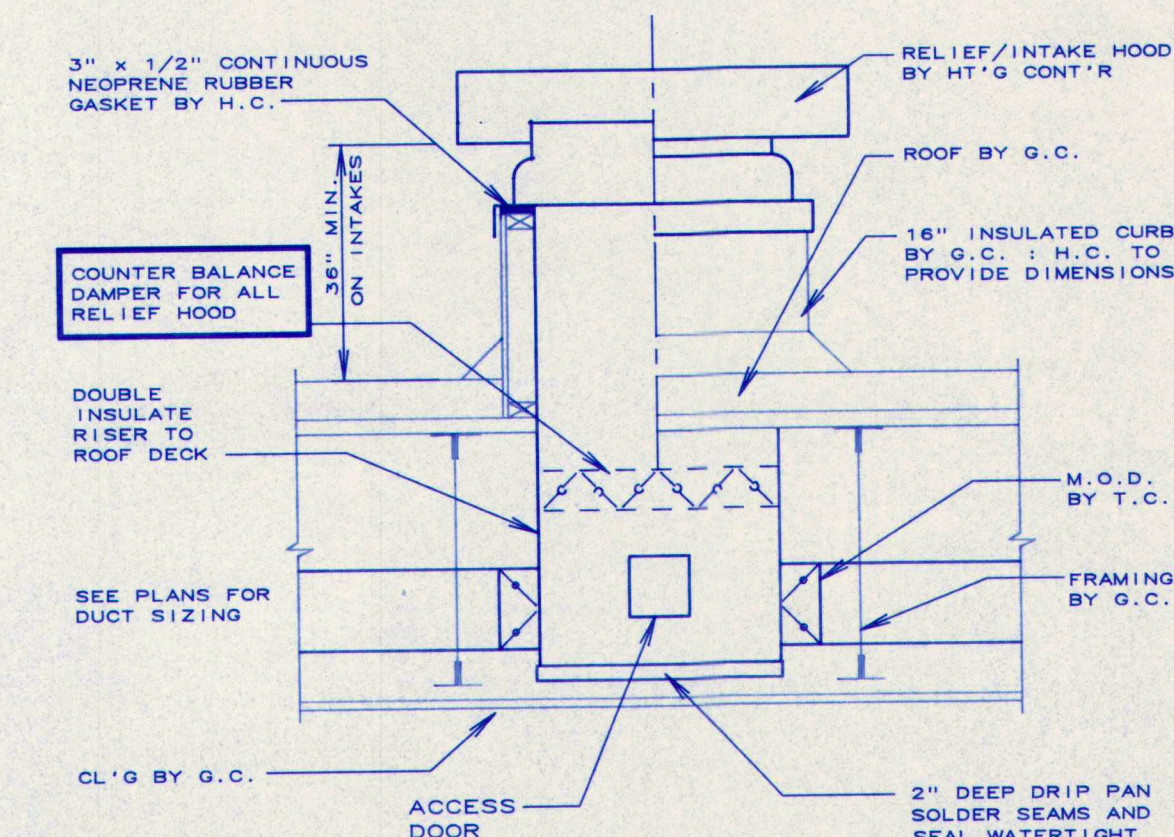
9
M7.2 **PARALLEL FLOW DUCT BRANCH**
NO SCALE



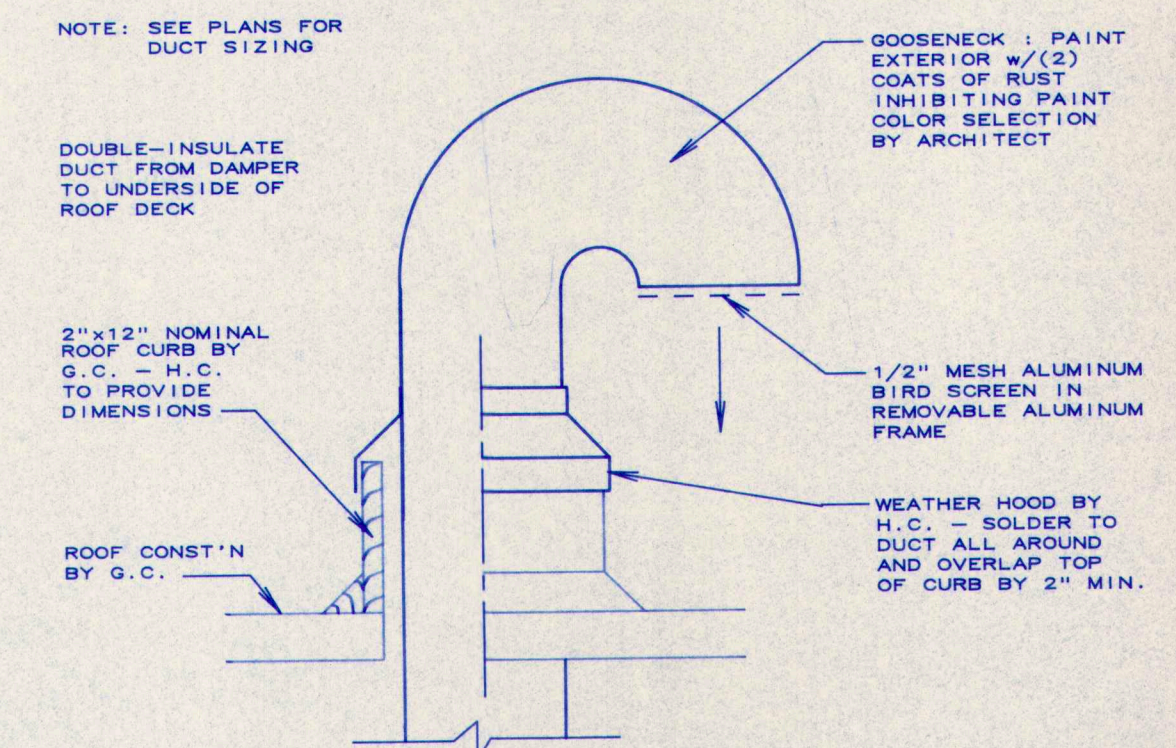
10
M7.2 **FLOOR FIRE DAMPER**
NO SCALE



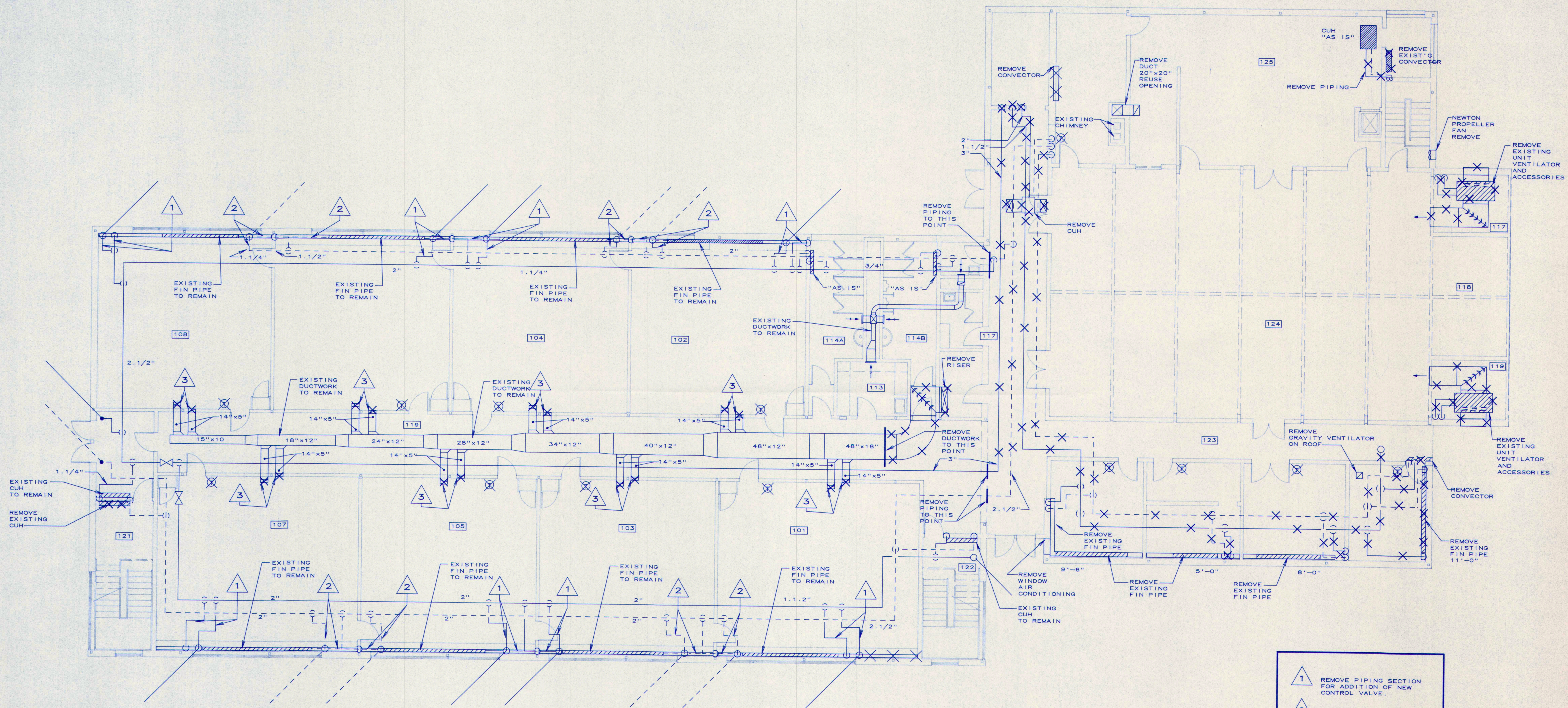
11
M7.2 **ROOF EXHAUST FAN**
NO SCALE



12
M7.2 **RELIEF/INTAKE HOOD**
NO SCALE



13
M7.2 **ROOF GOOSENECK**
NO SCALE

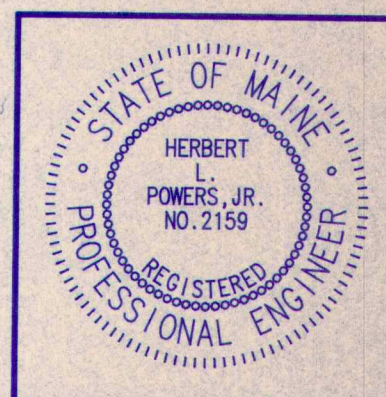


DEMOLITION FIRST FLOOR PLAN

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

- 1 REMOVE PIPING SECTION FOR ADDITION OF NEW CONTROL VALVE.
- 2 REMOVE PIPING SECTION FOR ADDITION OF NEW BALANCING VALVE.
- 3 REMOVE EXISTING DUCTWORK TO CORRIDOR.

M.S.A.D. 51 - Addition & Alterations to the
Mabel I. Wilson School
Cumberland Center, Maine



DATE: 05.28.1993
REVISIONS:

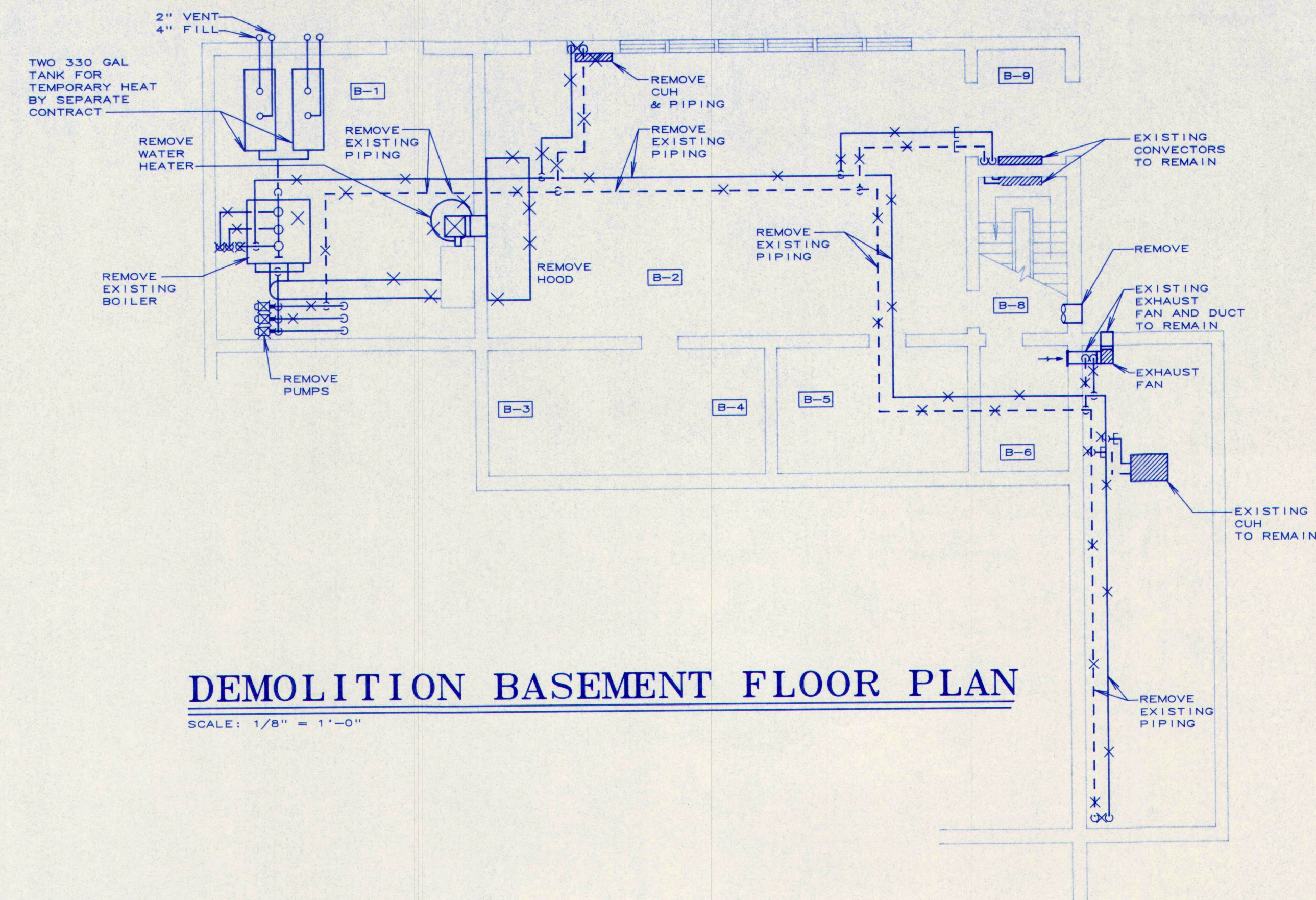
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DRAWING NO.

DM1

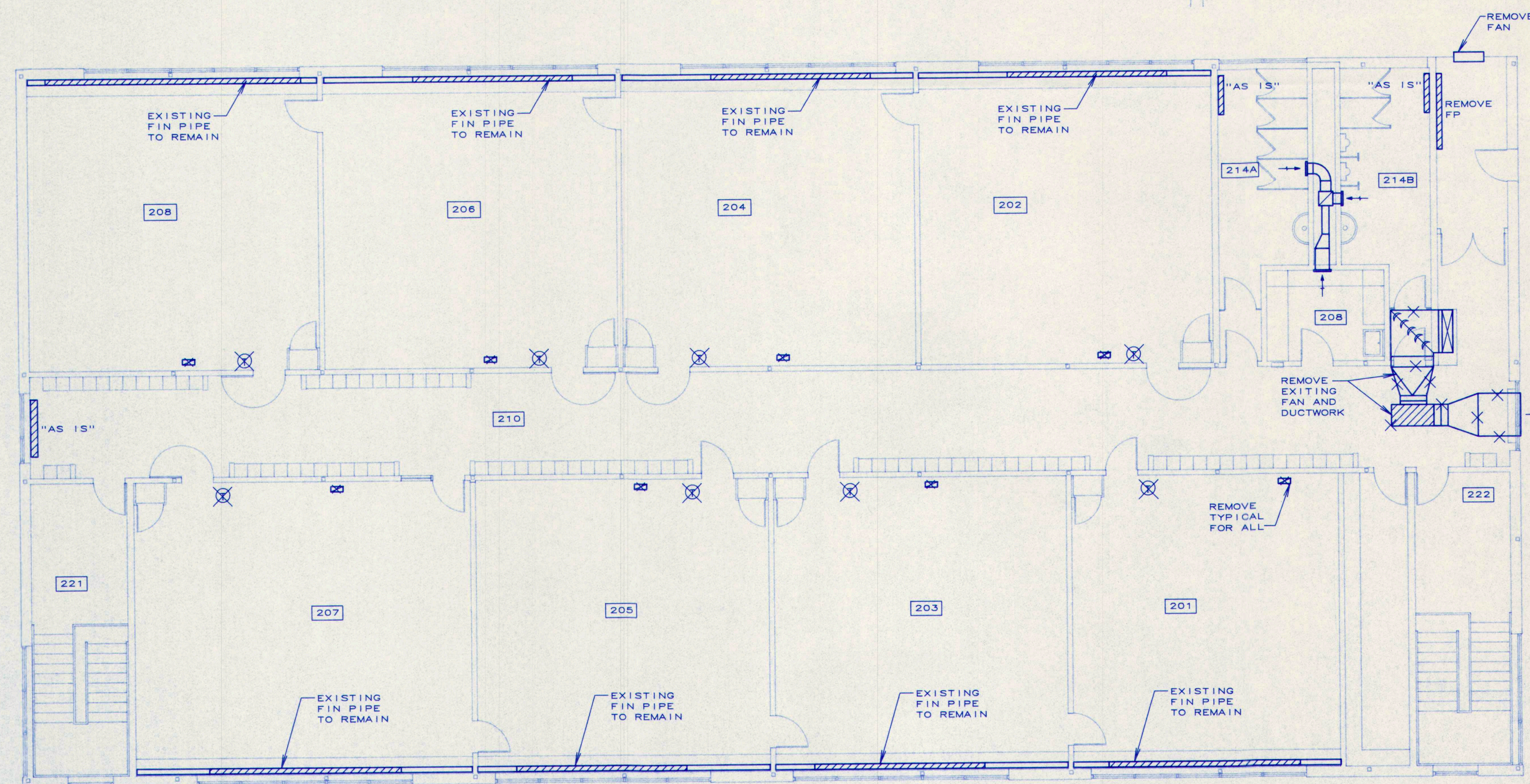
MECHANICAL SYSTEMS ENGINEERS
10 ROYAL RIVER CENTER
YARMOUTH, MAINE 04096
(207) 846-1441

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Portland, Maine 04101
207 774-6016 Fax: 774-9128



DEMOLITION BASEMENT FLOOR PLAN

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



DEMOLITION SECOND FLOOR PLAN

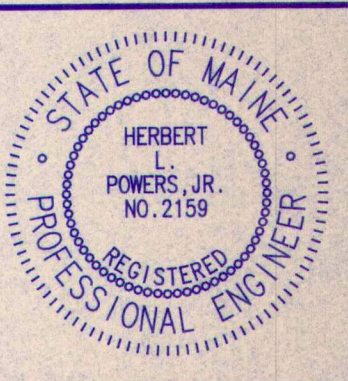
SCALE: 1/8" = 1'-0"

MECHANICAL SYSTEMS ENGINEERS
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M.S.A.D. 51 - Addition and Renovations to the
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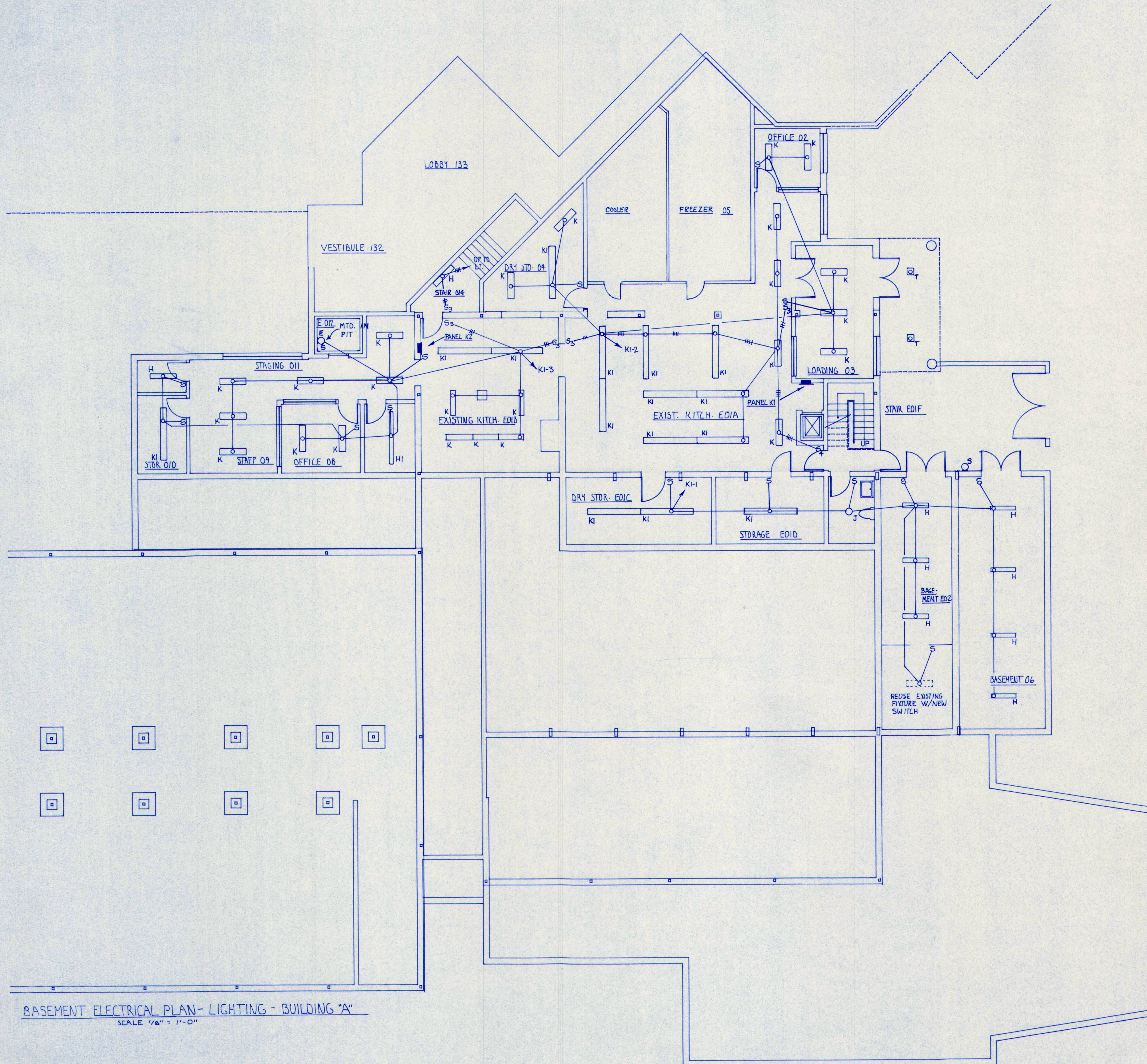


DATE: 05.28.1993
REVISIONS:

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DM2

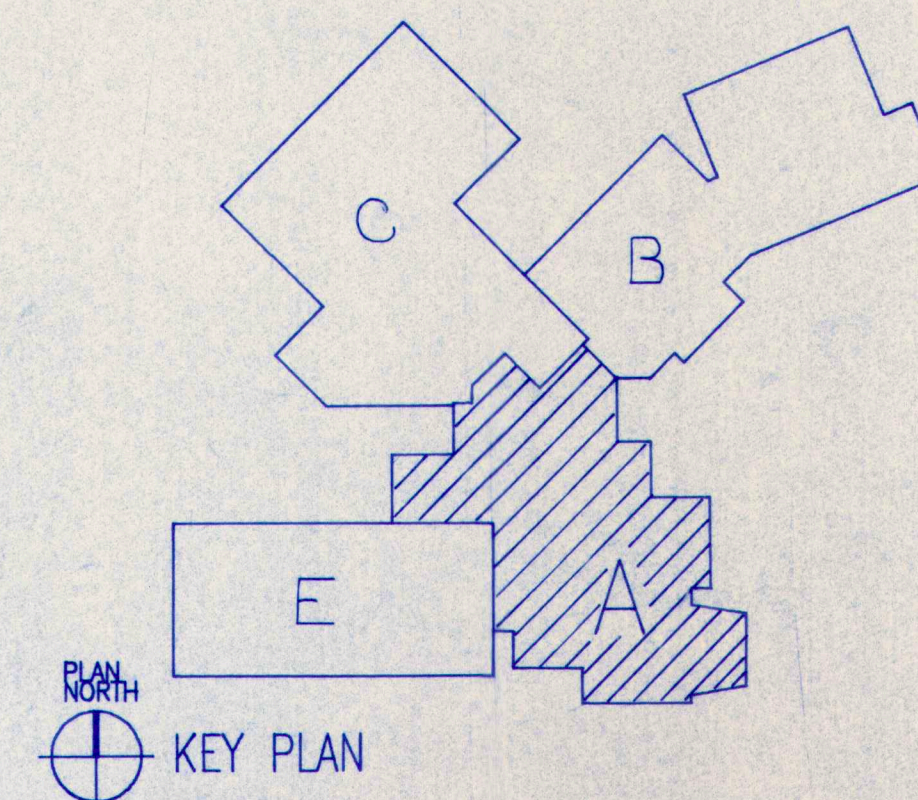


BASEMENT ELECTRICAL PLAN - LIGHTING - BUILDING "A"
SCALE 1/8" = 1'-0"

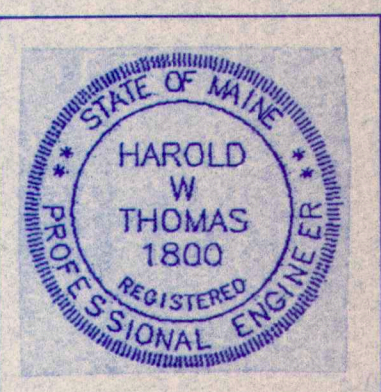
GENERAL NOTES

1. ALL WORK SHALL CONFORM TO LOCAL AND STATE CODES AND THE N.E.C.
2. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR BALANCING THE LOAD ON THE PANELS.
3. SWITCHES SHALL BE MOUNTED 4'-0" TO TOP OF PLATE. SWITCHES SHOWN IN SAME AREA SHALL BE GANGED UNDER A COMMON PLATE. LOCATE SWITCHES AS CLOSE AS POSSIBLE TO EDGE OF DOOR FRAME ON LOCKSIDE.
4. MINIMUM WIRE SIZE SHALL BE #12AWG COPPER. ALL REFERENCE TO WIRE SIZE IS INTENDED AS COPPER. CIRCUIT BREAKER SIZE (AS PER PANEL SCHEDULE) SHALL DICTATE WIRE SIZE OF ALL CONDUCTORS.
5. THE ENTIRE ELECTRICAL SYSTEM SHALL BE GROUNDED BY MEANS OF A SEPARATE GROUND CONDUCTOR. CONDUIT SHALL NOT BE CONSIDERED A GROUND CONDUCTOR, BUT SHALL BE GROUNDED. (USE TABLE 250-95 IN N.E.C.)
6. THIS CONTRACTOR SHALL COORDINATE WITH OTHER TRADES WHERE EQUIPMENT AND/OR DEVICES ARE FURNISHED BY OTHER TRADES AND WIRED WHOLLY OR IN PART BY THIS CONTRACTOR SO AS TO ACHIEVE A COMPLETE AND OPERATING SYSTEM.
7. ALL HOMERUNS TO PANEL IN EXCESS OF 100 FEET SHALL BE AT LEAST #10AWG COPPER.
8. PROVIDE 3-1" C EMPTY FROM EACH RECESSED PANEL EXTENDED TO ACCESSIBLE CEILING SPACE ABOVE EACH PANEL OR TO BOX 8" AFF. CAP FOR FUTURE USE.
9. OUTLETS OR JUNCTION BOXES MOUNTED BACK TO BACK SHALL BE PROHIBITED.
10. THIS CONTRACTOR SHALL VERIFY MOUNTING HEIGHTS FOR ALL OUTLETS. COORDINATE RECEPTACLES CAREFULLY PRIOR TO INSTALLATION. AVOID MOUNTING RECEPTACLES OVER HEATING UNITS.
11. ALL H&V SCHEMATICS SHOWN ARE DIAGRAMMATICAL ONLY. REFER TO EQUIPMENT AND CONTROL MANUFACTURER'S SHOP DRAWINGS FOR EXACT WIRING.
12. THIS CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF FIRE RATED WALLS BY SEALING ALL WIRING, CONDUIT, ETC., WHICH PASSES THROUGH SUCH WALLS WITH AN APPROVED FIRE RATED SEALANT.
13. ALUMINUM CABLES SHALL BE THREADED WITH COMPRESSION FITTINGS; USE ANTI-OXIDE PASTE.
14. DIAGRAMS DO NOT NECESSARILY SHOW ALL ITEMS INCLUDED IN THE SYSTEM. REFER TO FLOOR PLANS, ETC., FOR COMPLETE SYSTEM.
15. EXACT LOCATIONS OF OUTLETS AND FEEDS TO ALL KITCHEN EQUIPMENT SHALL BE VERIFIED WITH KITCHEN EQUIPMENT CONTRACTOR PRIOR TO INSTALLATION.
16. FEED ALL KITCHEN EQUIPMENT FROM UNDER SLAB. VERIFY EXACT LOCATIONS OF OUTLETS WITH EQUIPMENT SUPPLIER PRIOR TO INSTALLATION OF CONDUIT.
17. LOCATION OF ALL LIGHTING FIXTURES, RECEPTACLES, TELEPHONE OUTLETS, ETC. SHALL BE CONFIRMED AND VERIFIED FROM ARCHITECTURAL DRAWINGS, I.E. ELEVATIONS, SECTIONS, REFLECTED CEILINGS, ETC.
18. LIGHTING FIXTURES SHOWN SWITCHED WITH MULTIPLE SWITCHING INDICATED BY S11 SHALL BE SWITCHED SUCH THAT THE INSIDE LAMPS IN ALL FIXTURES SHALL BE SWITCHED SEPARATELY FROM THE OUTSIDE 2 LAMPS. THE ABOVE ALLOWS FOR 3 UNIFORM LEVELS OF ILLUMINATION WITH 3 LAMP FIXTURES OR 2 LEVELS WITH 2 LAMP OR 4 LAMP FIXTURES IN EACH AREA. 2-LAMP FIXTURES SHALL HAVE 2-1 LAMP BALLASTS, OR WIRE 1 LAMP OF 2-LAMP FIXTURE FROM ADJACENT FIXTURE - ODD FIXTURE SHALL HAVE EXTRA BALLAST. (EACH LAMP SHALL BE SWITCHED SEPARATELY). TWO AND THREE LAMP FIXTURES MAY SHARE BALLASTS WITH ADJACENT FIXTURES, IN ORDER TO REDUCE BALLAST QUANTITIES.
19. THE LIGHTING FIXTURE SCHEDULE SHALL NOT BE THE SOLE LIGHTING REFERENCE. REFER TO THE DRAWINGS TO VERIFY QUANTITIES, BALLAST CONFIGURATIONS, AND DIMENSIONS OF FIXTURES PRIOR TO BIDDING.
20. DESIGN LIGHTING INTENSITIES:

| | |
|----------------------|---------------|
| CLASSROOMS, LIBRARY | 50 FC MINIMUM |
| CORRIDORS, STAIRWAYS | 15 FC MINIMUM |
| OFFICES | 50 FC MINIMUM |
| CAFETERIA | 35 FC MINIMUM |
21. DISCONNECT, REMOVE AND/OR RELOCATE ALL EXISTING ELECTRICAL EQUIPMENT, FEEDERS, AND BRANCH CIRCUITS WHICH AFFECT OR ARE AFFECTED BY THE NEW CONSTRUCTION.
22. THE DRAWINGS ARE INTENDED TO SHOW THE GENERAL CHARACTERISTICS OF THE EXISTING OUTLETS AND WIRING. I.E. EXACT LOCATIONS ARE NOT NECESSARILY AS SHOWN ON THE DRAWINGS. THIS CONTRACTOR SHALL ADJUST HIS WORK AS REQUIRED FOR ACTUAL EXISTING FIELD CONDITIONS.
23. ALL ELECTRICAL EQUIPMENT THAT IS NOT TO BE REUSED WITH THE NEW CONSTRUCTION IN AREAS THAT ARE BEING RENOVATED, SHALL BE REMOVED. THIS INCLUDES ALL EXISTING LIGHTING FIXTURES, DEVICES, WIRING, EXPOSED CONDUIT, ETC.
24. MODIFY ALL PANEL DIRECTORIES TO DESIGNATE ALL NEW OR RELOCATED LOADS AND SPARE CIRCUIT BREAKERS.



M.S.A.D. 51 - Addition & Alterations to the
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Cumberland Center, Maine



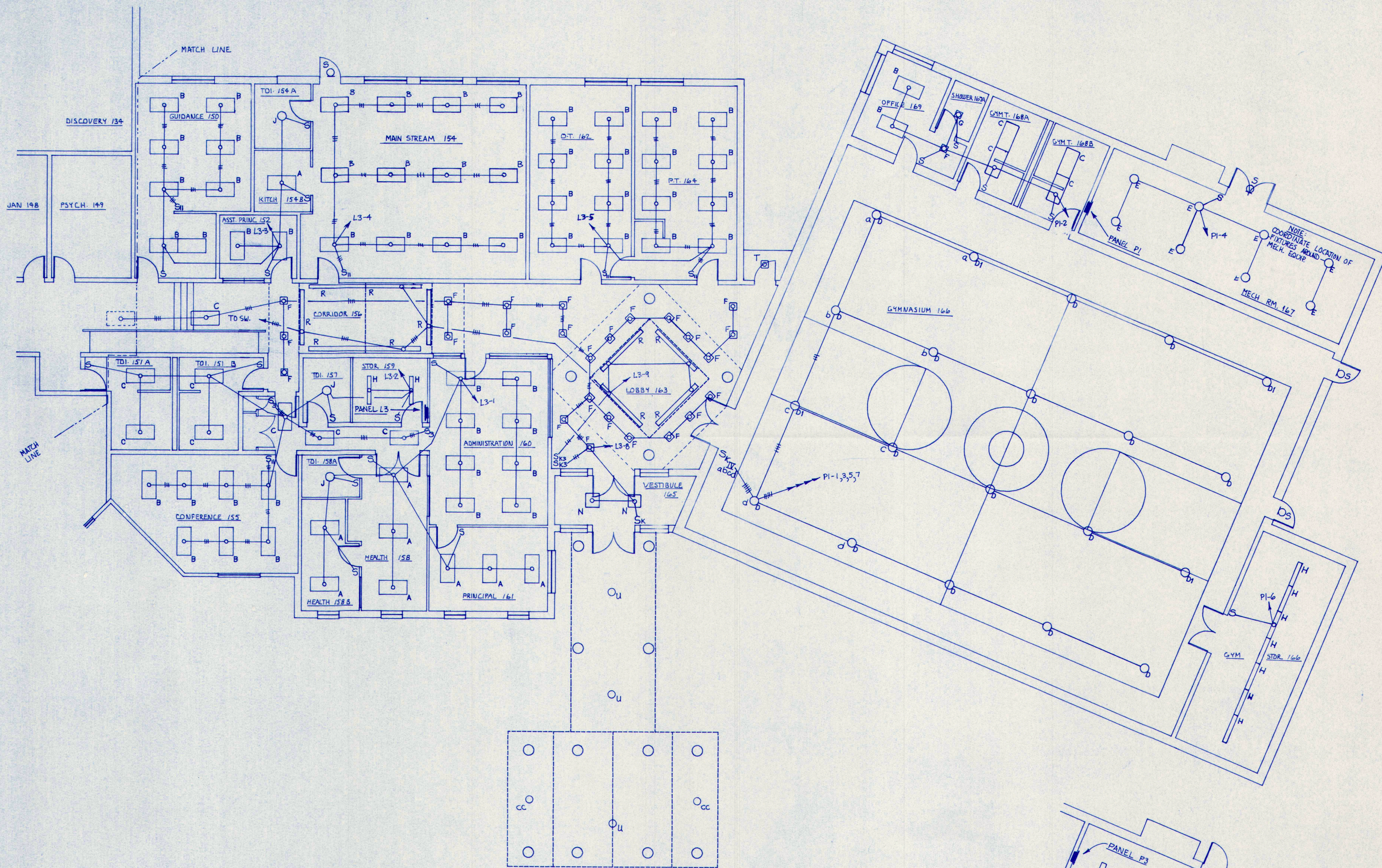
DATE: 25 MAY 93
REVISIONS:
BASEMENT
ELECTRICAL PLAN
LIGHTING - BLDG "A"

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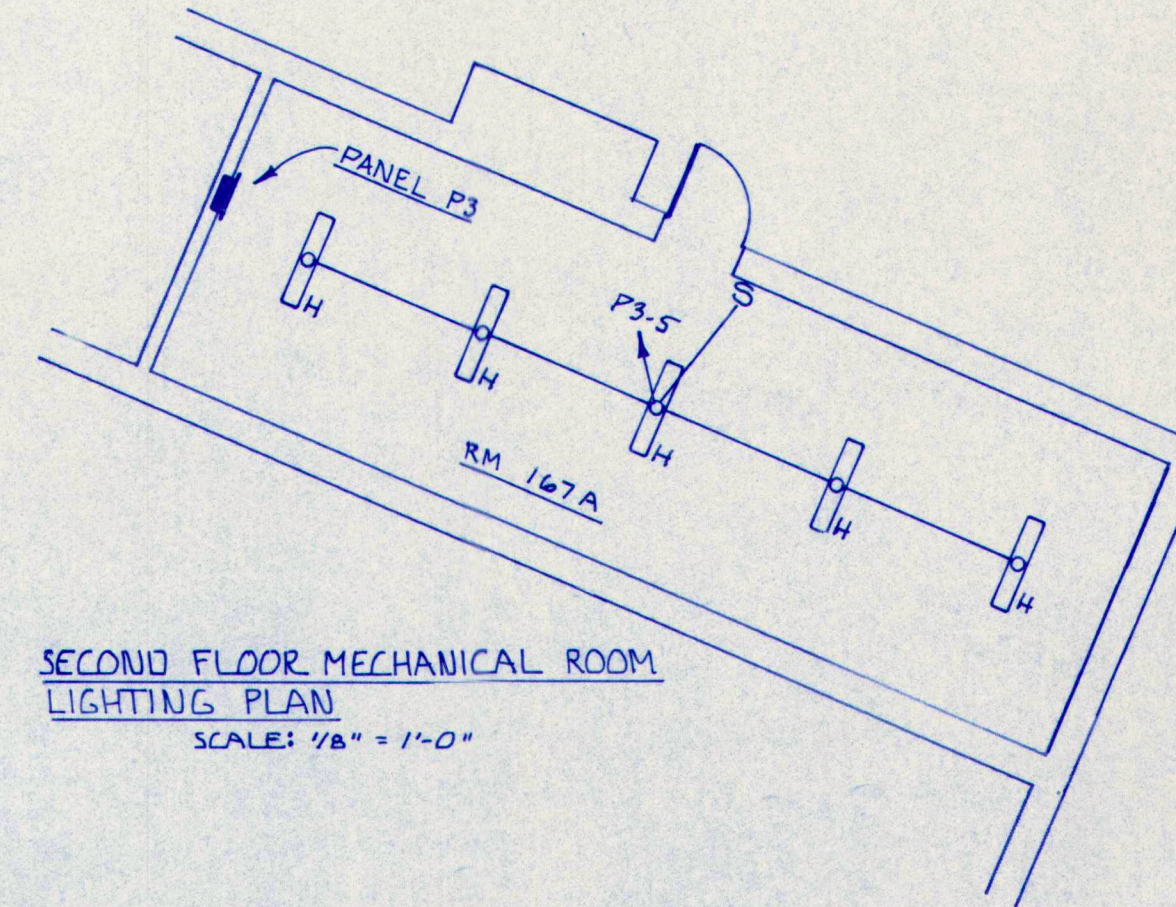
DRAWING NO.

E 1.1

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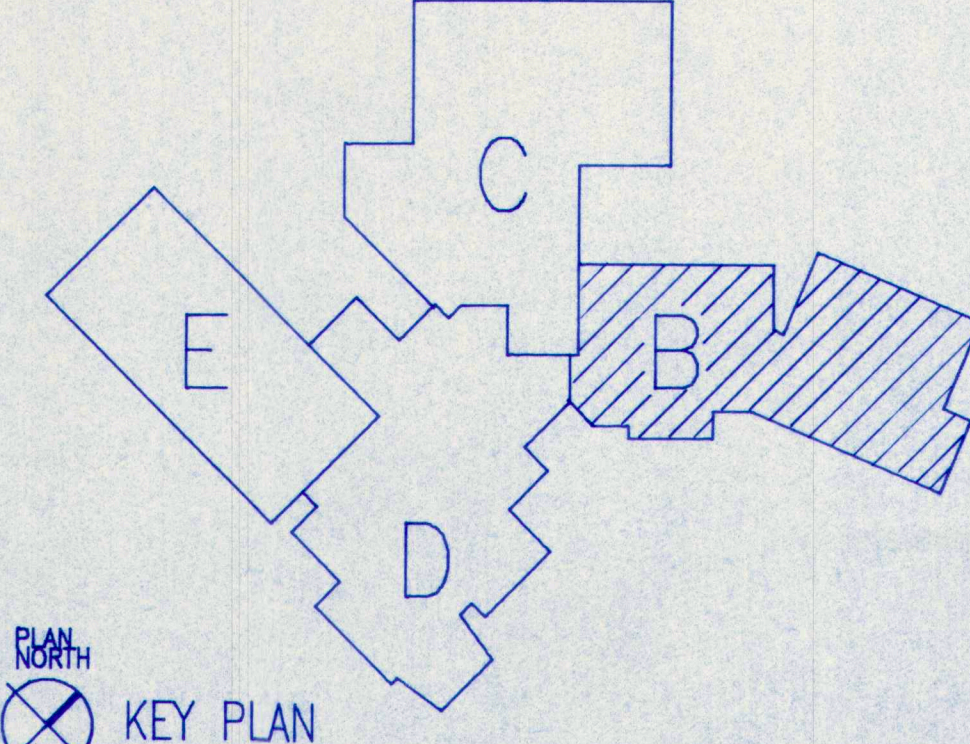
FIRST FLOOR ELECTRICAL PLAN
LIGHTING - BUILDING "B"
SCALE: 1/8" = 1'-0"



SECOND FLOOR MECHANICAL ROOM
LIGHTING PLAN
SCALE: 1/8" = 1'-0"

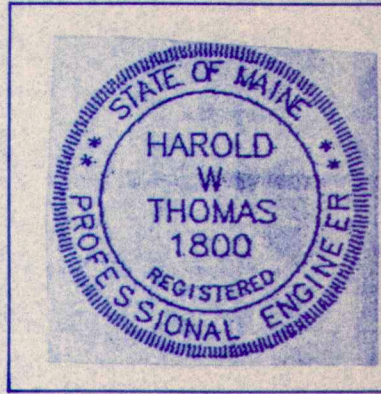
LEGEND

- CONDUIT AND/OR WIRING RUN CONCEALED - ARROW DENOTES HOMERUN TO PANEL - HASHMARKS DENOTE NUMBER OF WIRES OTHER THAN TWO
- CONDUIT AND WIRING RUN CONCEALED IN OR UNDER SLAB OR BELOW GRADE
- LIGHTING AND POWER PANEL
- FLUORESCENT FIXTURE
- LIGHTING FIXTURE - WALL OUTLET
- LIGHTING FIXTURE - CEILING OUTLET
- RECESSED FIXTURE
- SW SINGLE POLE SWITCH - NUMERAL DENOTES NUMBER OF SWITCHES IN GANG - LETTERS DENOTE SWITCHES CONTROLLED
- S SINGLE POLE SWITCH
- S₃ THREE WAY SWITCH
- S₄ FOUR WAY SWITCH
- S_K KEY SWITCH
- S_P SWITCH AND PILOT ASSEMBLY
- S_D DIMMER SWITCH
- S_{OL} THERMAL OVERLOAD SWITCH
- DD DUPLEX CONVENIENCE OUTLET 18" AFF EXCEPT AS NOTED
- DD DUPLEX CONVENIENCE OUTLET 44" AFF
- RO RANGE OUTLET - 50A-250V
- TELEPHONE OUTLET - WALL TYPE MOUNTED 18" AFF EXCEPT AS NOTED - RUN 3/4" CONDUIT FROM BOX TO ACCESSIBLE CEILING.
- TELEVISION OUTLET - WALL TYPE MOUNTED 18" AFF EXCEPT AS NOTED -
- COMPUTER SIGNAL OUTLET-RUN 3/4" CONDUIT FROM BOX TO ACCESS. CEILING
- JUNCTION BOX - SIZED AS REQUIRED
- EM ELECTRIC MOTOR - NUMBER INDICATED H.P.
- DISCONNECT SWITCH - FUSED AS REQUIRED
- EMC ELECTRIC MOTOR CONTROLLER
- SD SMOKE DETECTOR - "D" DENOTES DUCT TYPE
- FAT FIRE ALARM THERMAL DETECTOR - COMBINATION
- ELB EMERGENCY LIGHTING BATTERY UNIT
- ELC EXIT LIGHTING UNIT - CEILING OUTLET
- ELW EXIT LIGHTING UNIT - WALL OUTLET
- FMS FIRE ALARM MANUAL STATION
- FHL FIRE ALARM HORN AND LIGHT UNIT 7'-6" AFF
- AFB ABOVE FINISH FLOOR
- AFG ABOVE FINISH GRADE
- DD DOUBLE DUPLEX
- GFI GROUND FAULT INTERRUPTER
- EWC ELECTRIC WATER COOLER
- EF EXHAUST FAN
- WP WEATHERPROOF
- EWB ELECTRIC WATER HEATER
- UV UNIT VENTILATOR
- UH UNIT HEATER
- PC PARTIAL CIRCUIT
- CS CLOCK SPEAKER UNIT
- SCi CALL IN DEVICE
- SPK SPEAKER - WALL OR CEILING OUTLET
- COC CLOCK OUTLET WITH CLOCK AS SPECIFIED
- PSB PROGRAM SYSTEM BELL
- SPS SURFACE PLUG STRIP
- MHD MAGNETIC DOOR HOLDER
- FV FIRE ALARM VISUAL UNIT
- FMR FLOOR MOUNTED DUPLEX RECEPTACLE-PEDESTAL- 120V
- FMR FLOOR MOUNTED RECEPTACLE 30 AMP/2 POLE
- DDC DUPLEX CONVENIENCE OUTLET - 36" AFF
- ARC AREA OF REFUGE COMMUNICATION UNIT - M MEANS MASTER UNIT



PLAN NORTH
KEY PLAN

M.S.A.D. 51 - Addition & Alterations to the
Mabel I. Wilson School
Cumberland Center, Maine



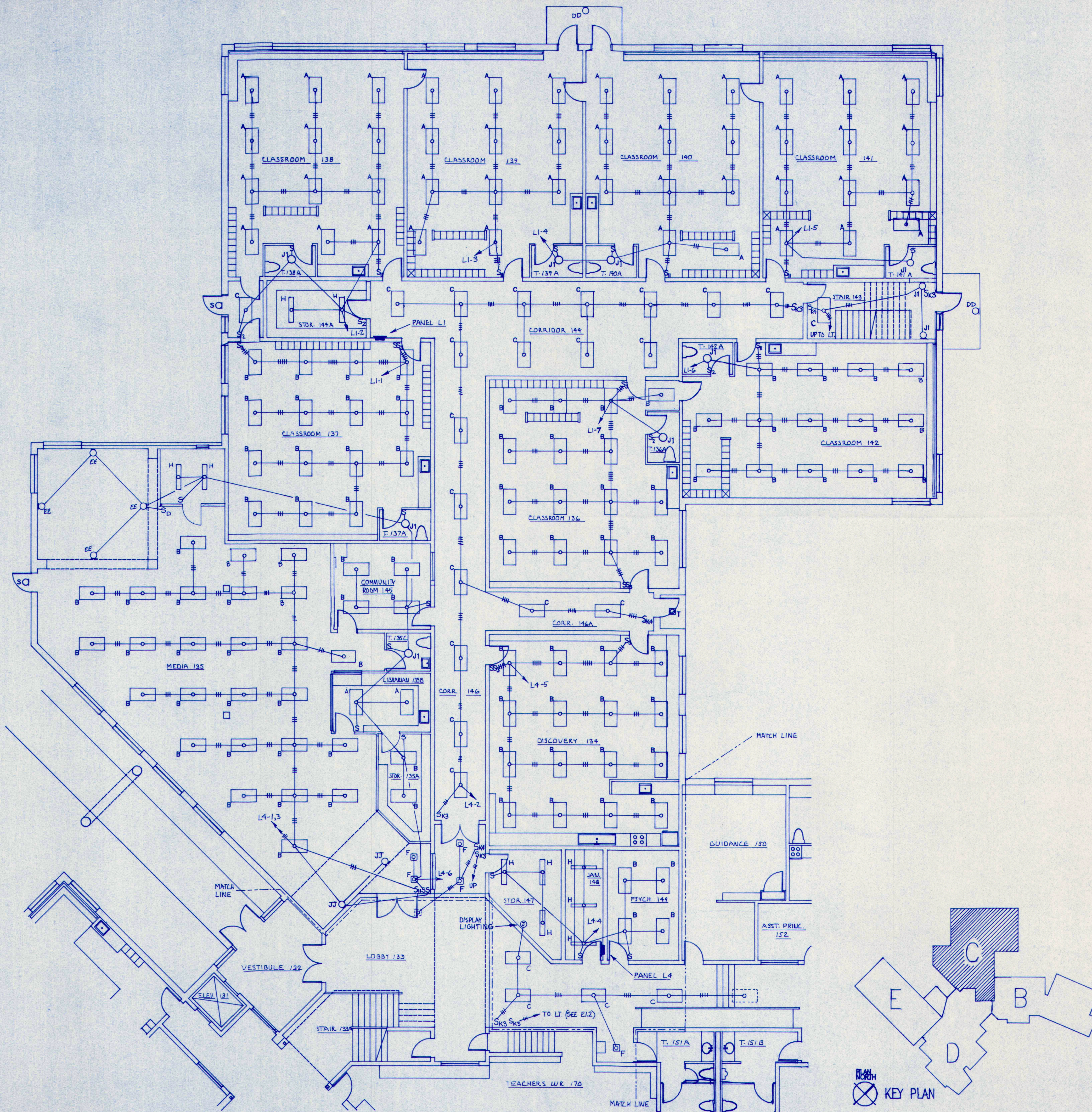
DATE: 28 MAY 93
REVISIONS:
FIRST FLOOR ELECTRICAL
PLAN - BUILDING "B"
AND
MECHANICAL ROOM
SECOND FLOOR

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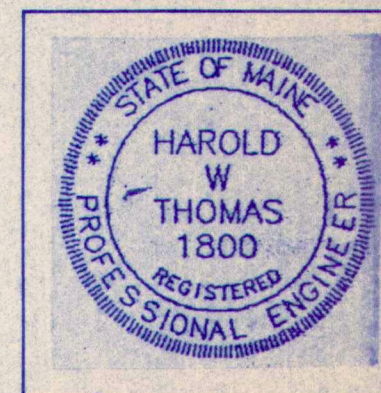
E 1.2

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FIRST FLOOR ELECTRICAL PLAN- LIGHTING- BUILDING "C"
SCALE: 1/8" = 1'-0"

M.S.A.D. 51 - Addition & Alterations to the
Mabel I. Wilson School
Cumberland Center, Maine

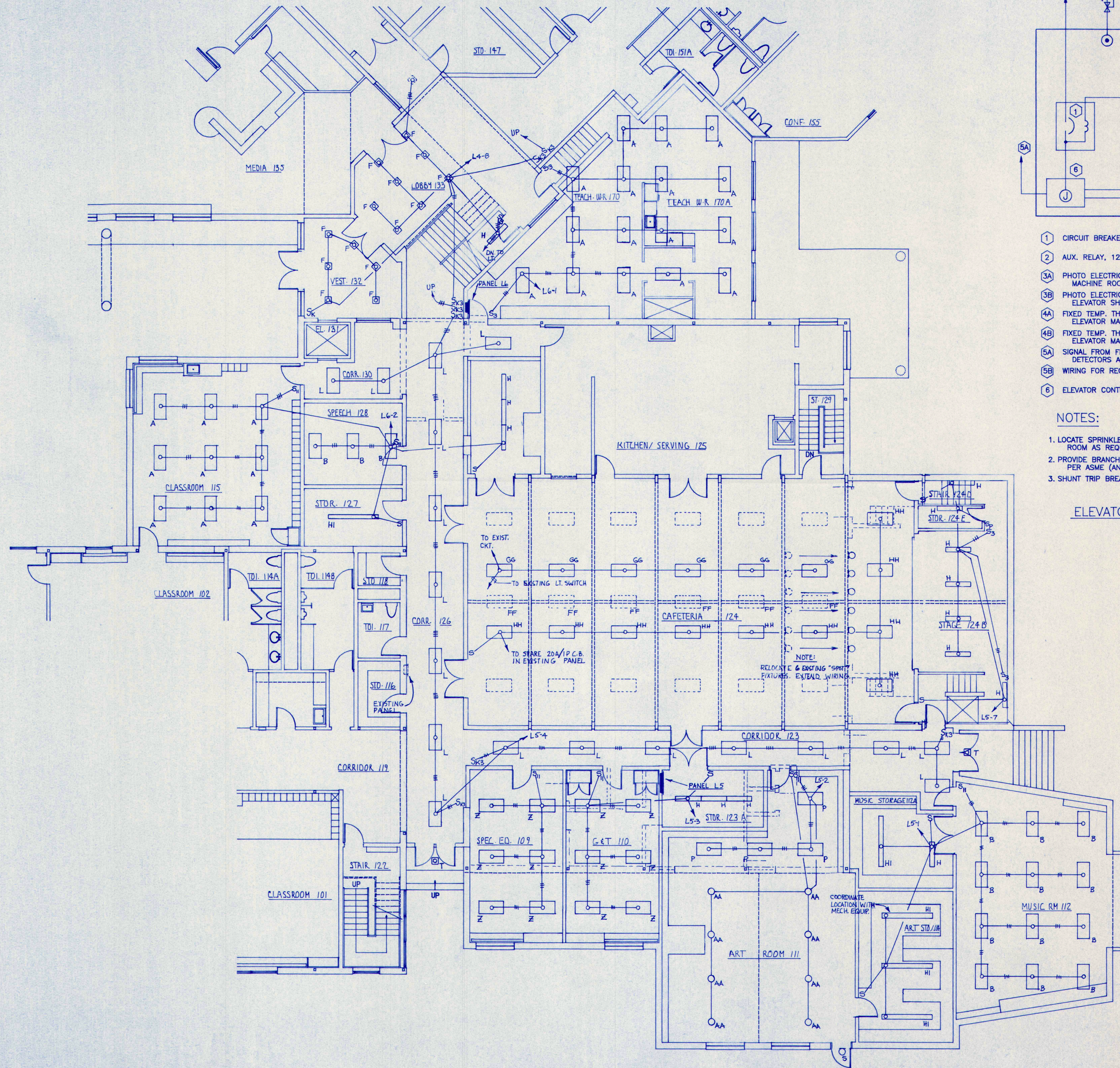


DATE: 28 MAY 93
REVISIONS:
FIRST FLOOR
ELECTRICAL PLAN
LIGHTING BLDG "C"

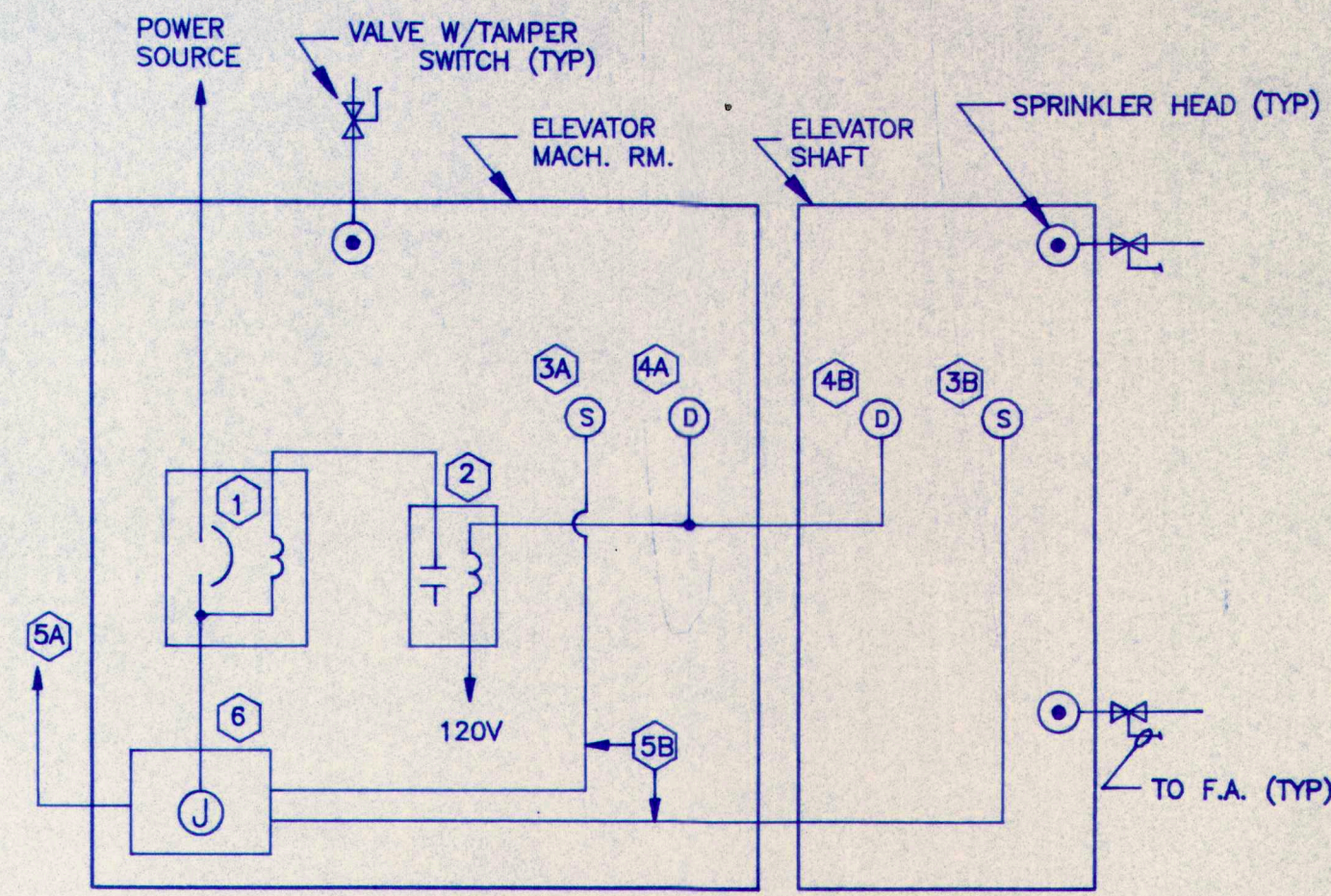
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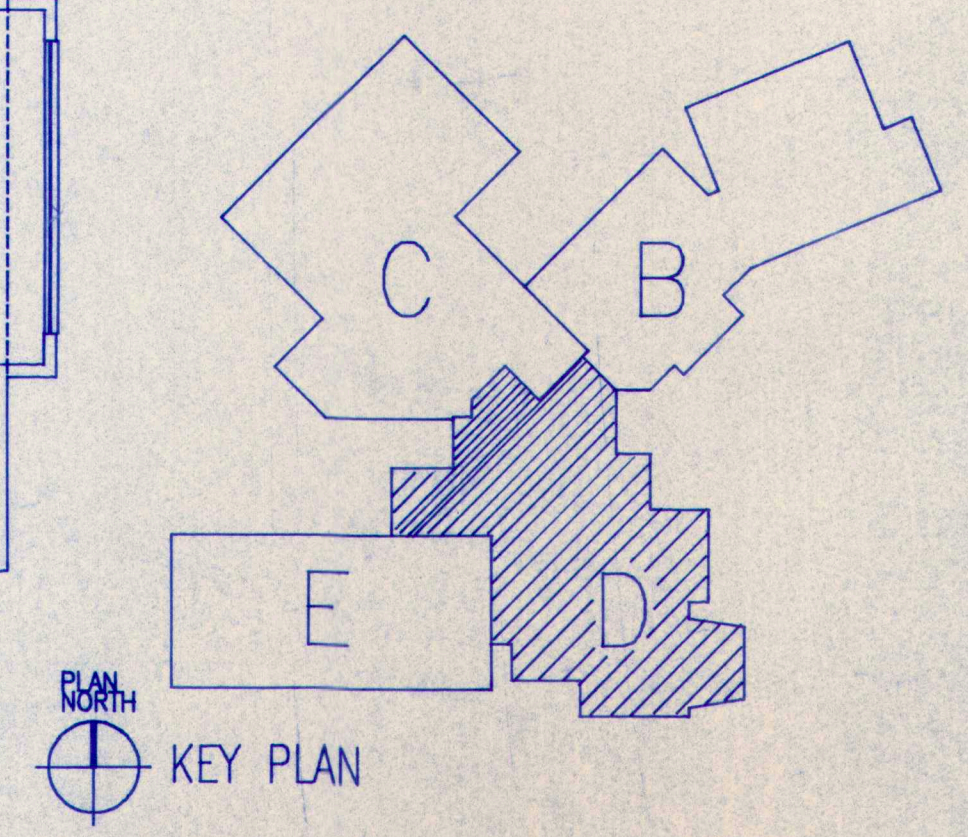
FIRST FLOOR ELECTRICAL PLAN - LIGHTING - BUILDING "D"
SCALE: 1/8" = 1'-0"



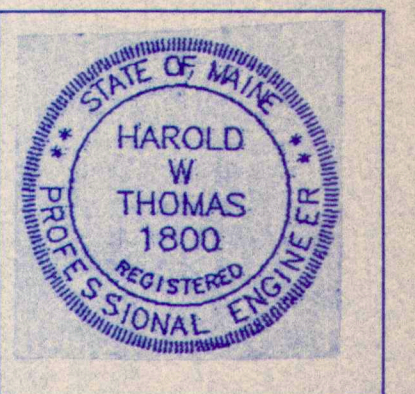
- 1 CIRCUIT BREAKER WITH SHUNT TRIP.
- 2 AUX. RELAY, 120V COIL, NEMA 1 ENCLOSURE.
- 3A PHOTO ELECTRIC SMOKE DETECTOR IN ELEVATOR MACHINE ROOM.
- 3B PHOTO ELECTRIC SMOKE DETECTOR AT TOP OF ELEVATOR SHAFT.
- 4A FIXED TEMP. THERMAL DETECTOR (135°) IN ELEVATOR MACHINE ROOM.
- 4B FIXED TEMP. THERMAL DETECTOR (135°) IN ELEVATOR MACHINE ROOM.
- 5A SIGNAL FROM FIRE ALARM PANEL AND/OR SMOKE DETECTORS AT EACH ELEVATOR LANDING.
- 5B WIRING FOR RECALL.
- 6 ELEVATOR CONTROLLER.

- NOTES:
1. LOCATE SPRINKLER HEADS IN ELEVATOR SHAFT AND IN MACHINERY ROOM AS REQUIRED BY NFPA 13.
 2. PROVIDE BRANCH SPRINKLER SHUT-OFF VALVES WITH TAMPER SWITCHES PER ASME (ANSI) A17.1-1987, RULE 102.2.
 3. SHUNT TRIP BREAKER SHALL OPEN WHEN EITHER THERMAL DETECTOR OPERATES.

ELEVATOR DEVICES & WIRING DETAILS
NOT TO SCALE



M.S.A.D. 51 - Addition & Alterations to the
Mabel I. Wilson School
Cumberland Center, Maine



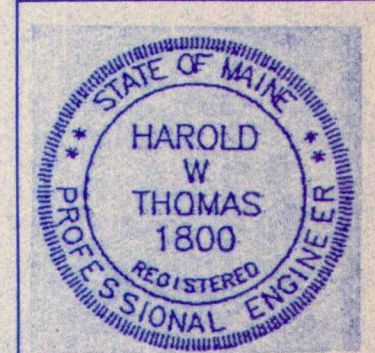
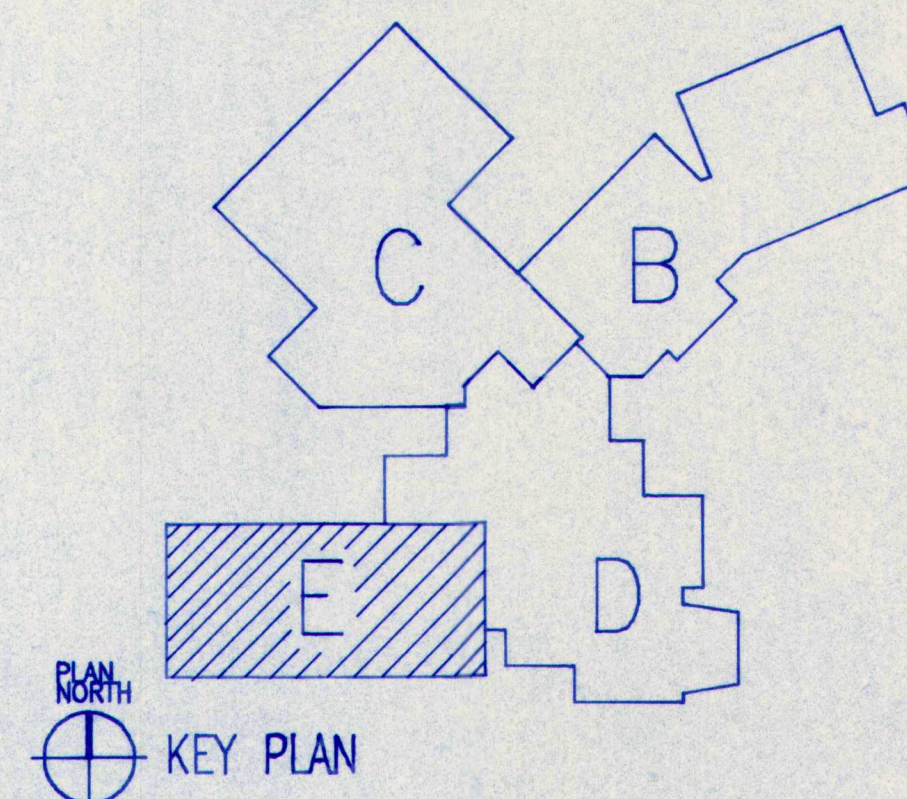
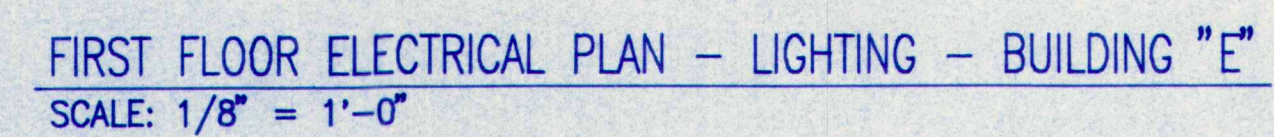
DATE: 26 MAY 93
REVISIONS:
FIRST FLOOR
ELECTRICAL PLAN
LIGHTING BLDG "D"

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M.S.A.D. 51 – Addition & Alterations to the
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Cumberland Center, Maine

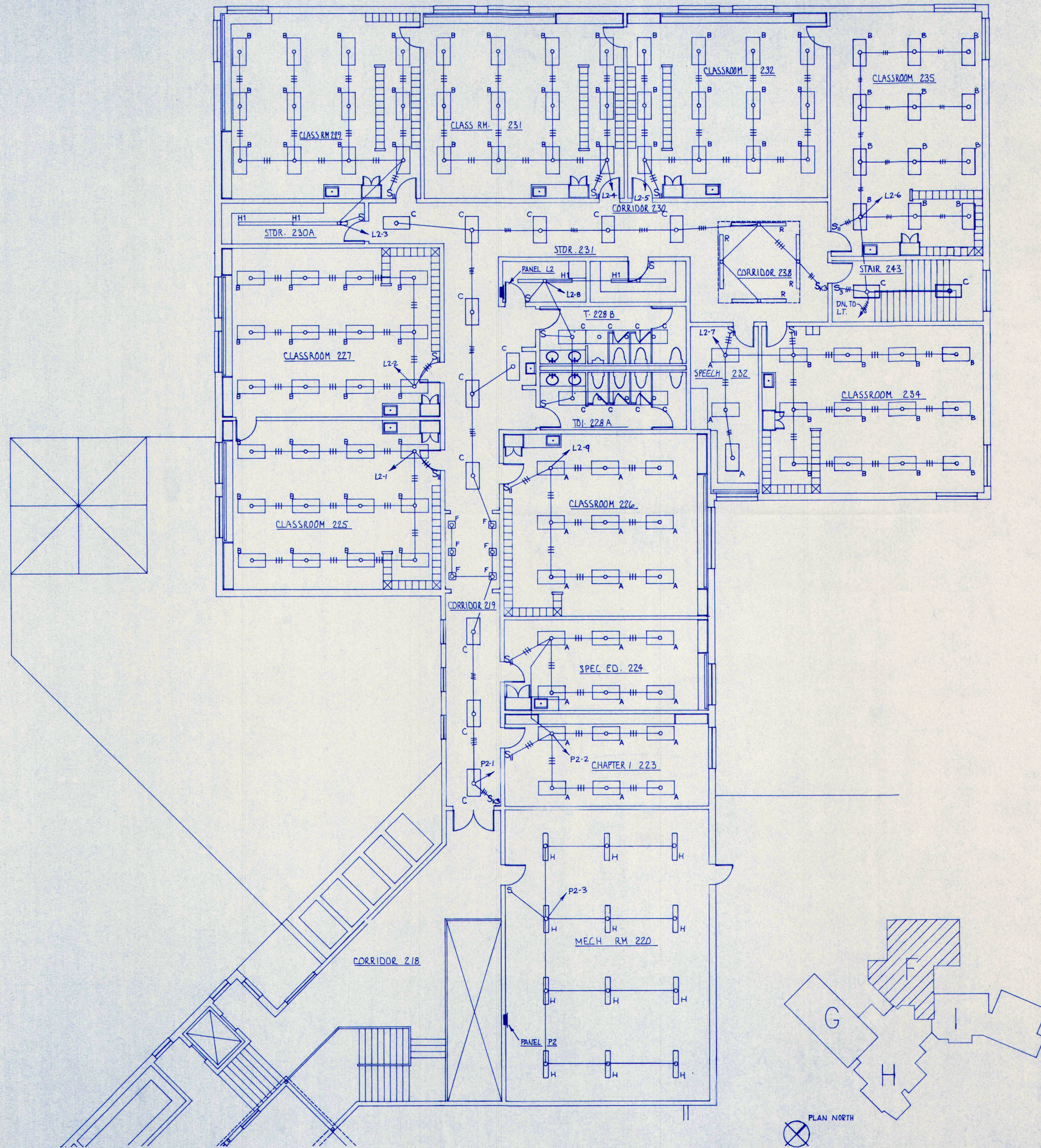


DATE: 28 MAY 93
REVISIONS:
FIRST FLOOR
ELECTRICAL PLAN
LIGHTING BLDG "E"

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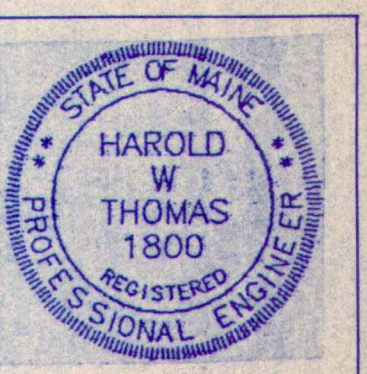
E1.5



| FIXTURE SCHEDULE | | | | |
|------------------|---|--|----------------------------|--|
| TYPE | MANUFACTURER | CATALOG NO. | LAMPS | MTG. & DESCRIPTION |
| A | COLUMBIA LUMAX METALUX | 4PS2G-84-244 RG43224-E01-FC-RS ZGC-440-K19 | 4-F032/T8 SYL. OCTRON | RECESSED-2x4 0.156 FLAT LENS |
| B | COLUMBIA LUMAX METALUX | 4PS2G-84-243 RG43224-E01-FC-RS ZGC-340-K19 | 3-F032/T8 SYL. OCTRON | RECESSED-2x4 0.156 FLAT LENS |
| C | COLUMBIA LUMAX METALUX | 4PS2G-84-242 RG23224-E01-FC-RS ZGC-240-K19 | 2-F032/T8 SYL. OCTRON | RECESSED-2x4 0.156 FLAT LENS |
| D | HOLOPHANE | BL2C250MH120JX | 1-250W/MH | SURFACE-W/SAFETY CHAIN |
| D1 | HOLOPHANE | BL2C250MH120JX-EM | 1-250W/MH 1-250W/QZ | SURFACE-W/SAFETY CHAIN |
| E | ARROWHART | 7681 | 1-100W | SURFACE |
| F | HALO LIGHTOLIER KURT VERSEN | H7891-8840C R085-A0 P347 | 2-13W/PL | RECESSED |
| G | PROGRESS | P6864-30-P21-TG | 1-75W/A19 | RECESSED |
| H | | | 2-F032/T8 SYL. OCTRON | SURFACE - 4' STRIP |
| H1 | | | 4-F032/T8 SYL. OCTRON | SURFACE - 8' STRIP |
| I | OMITTED | | | |
| J1 | PROGRESS | P7372 | 1-22W CIRC. 1-32W CIRC. | SURFACE |
| J | PROGRESS | P7373 | 1-32W CIRC. 1-40W CIRC. | SURFACE |
| K | LUMAX METALUX | WM28248-E01SA WB-240A | 2-F032/T8 SYL. OCTRON | SURFACE - 4' FT. WRAPAROUND W/END CAPS |
| K1 | LUMAX METALUX | WM43296-E01SA 8TWB-240A | 4-F032/T8 SYL. OCTRON | SURFACE - 8' FT. WRAPAROUND W/END CAPS |
| L | COLUMBIA LUMAX METALUX | 6111-84-242 SU29224-BOIFC 2M-240-K19 | 2-F032/T8 SYL. OCTRON | SURFACE-2x4-0.156 LENS |
| M | KURT VERSEN | R7342-100 | 1-100W/MH | RECESSED |
| N | COLUMBIA LUMAX METALUX | 4PS2G-84-224 RG41722-C01-FC-RS ZGC-420-K19 | 4-F017/T8 SYL. OCTRON | RECESSED-2x2 0.156 FLAT LENS |
| O | OMITTED | | | |
| P | COLUMBIA LUMAX METALUX | 6111-84-243 SU33224-BOIFC 2M-340-K19 | 3-F032/T8 SYL. OCTRON | SURFACE-2x4-0.156 LENS |
| Q | OMITTED | | | |
| R | | | 4-F032/T8 SYL. OCTRON | SURFACE - 8' STRIP MTD. IN COVE WITH HALF REFLECTOR |
| S | HOLOPHANE | WL2K070MH12 BZ | 1-70W/MH | SURFACE - WALLPACK |
| T | HALO KURT VERSEN LIGHTOLIER | M6023-730-10012P | 1-70W/MH | RECESSED |
| U | MC PHILBEN | 3A-362 | 1-70W/MH | PENDENT - 6" STEM |
| V | SPAULDING NU ART | 2/HHT-175-M-SM-FG-208 2/LCU-MH-175-208 | 1-175W/MH | MTD. ON 20' SQ. POLE ATOP CONCRETE BASE (SEE POLE BASE DETAIL) |
| W | SPAULDING NU ART | 2/HHT-175-M-SM-FG-208 2/LCU-MH-175-208 | 1-175W/MH | MTD. ON 16' SQ. POLE ATOP CONCRETE BASE (SEE POLE BASE DETAIL) |
| X | SPAULDING NU ART | HT-175-M-SM-FG-208 LCU-MH-175-208 | 1-175W/MH | MTD. ON 16' SQ. POLE ATOP CONCRETE BASE (SEE POLE BASE DETAIL) |
| Y | ARCHITECTURAL AREA | ALR-155-100MH-DBE | 1-100/MH | MTD. ON 12' SQ. POLE ATOP CONCRETE BASE (SEE POLE BASE DETAIL) |
| Z | COLUMBIA LUMAX METALUX | 6111-84-244 SU43224-BOIFC 2M-440-K19 | 4-F032/T8 SYL. OCTRON | SURFACE-2x4-0.156 LENS |
| AA | HOLOPHANE | PAC-17DMH-12-A-2 | 1-70W/MH | PENDENT |
| BB | PROGRESS | P7133-30ES | 2-F032/T8 SYL. OCTRON | SURFACE |
| CC | SPAULDING | HTI-70-M-SM-FG | 1-70W/MH | SURFACE |
| DD | DEVDE | 85/W-70MH-DBR-120 | 1-70W/MH | SURFACE-MTD ON TRUSS |
| EE | EURO TECH | 868-HAL | 1-150W/TL | SURFACE |
| FF | EXISTING FIXTURE RELOCATED AS TYPE GG | | | PENDENT |
| GG | RELOCATED TYPE FF FIXTURE. CLEAN & RELAMP | | | PENDENT |
| HH | LUMAX | WM43248-C01SA-S | 4-F032/T8 SYL. OCTRON | PENDENT |

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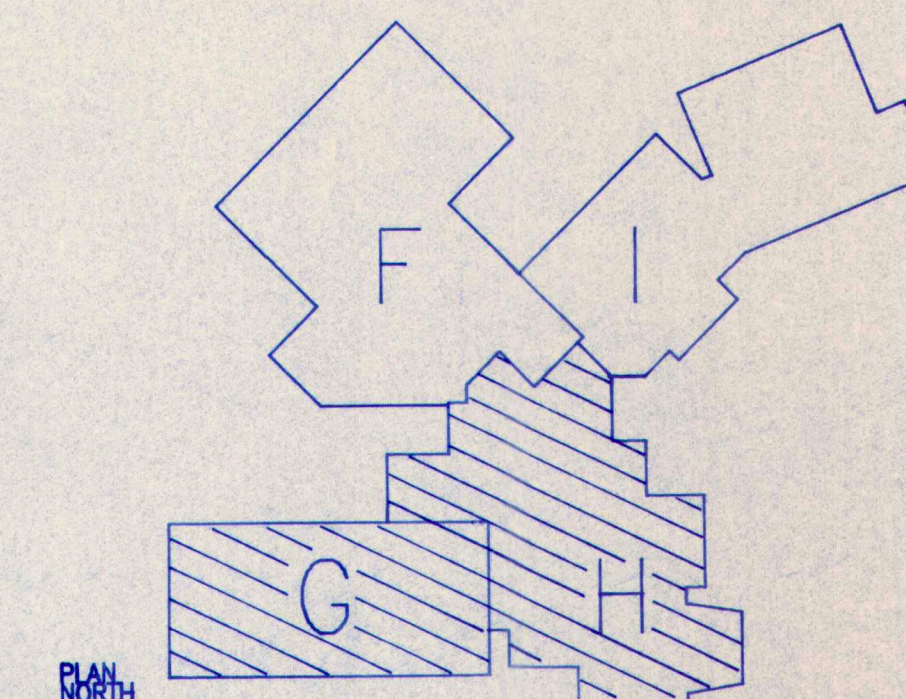


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REVISIONS:
SECOND FLOOR
ELECTRICAL PLAN
LIGHTING BLDG. "F"

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DRAWING NO.

E1.6



PLAN NORTH

KEY PLAN

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SECOND FLOOR
ELECTRICAL PLAN
LIGHTING BLDG.
"G" & "H"

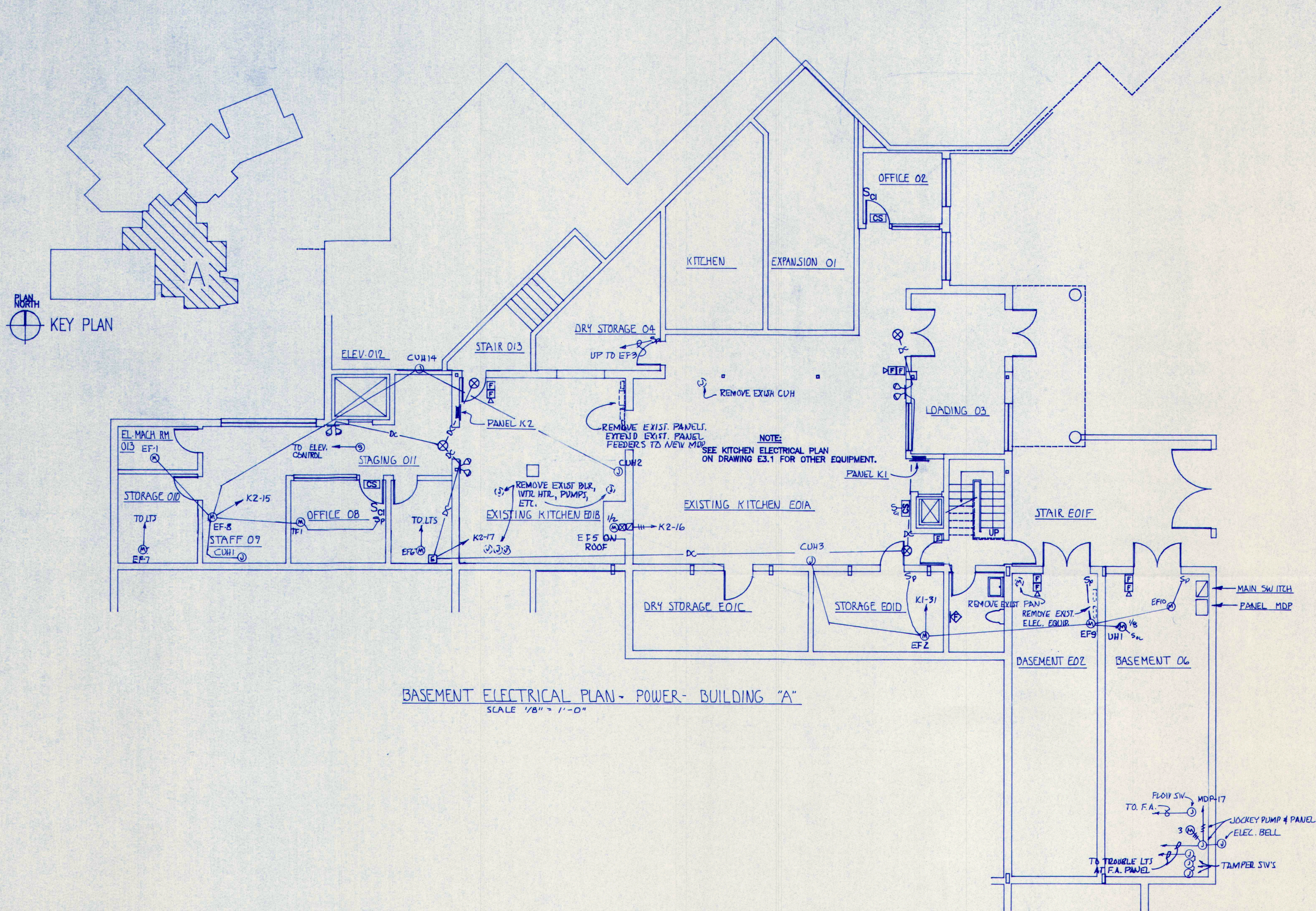
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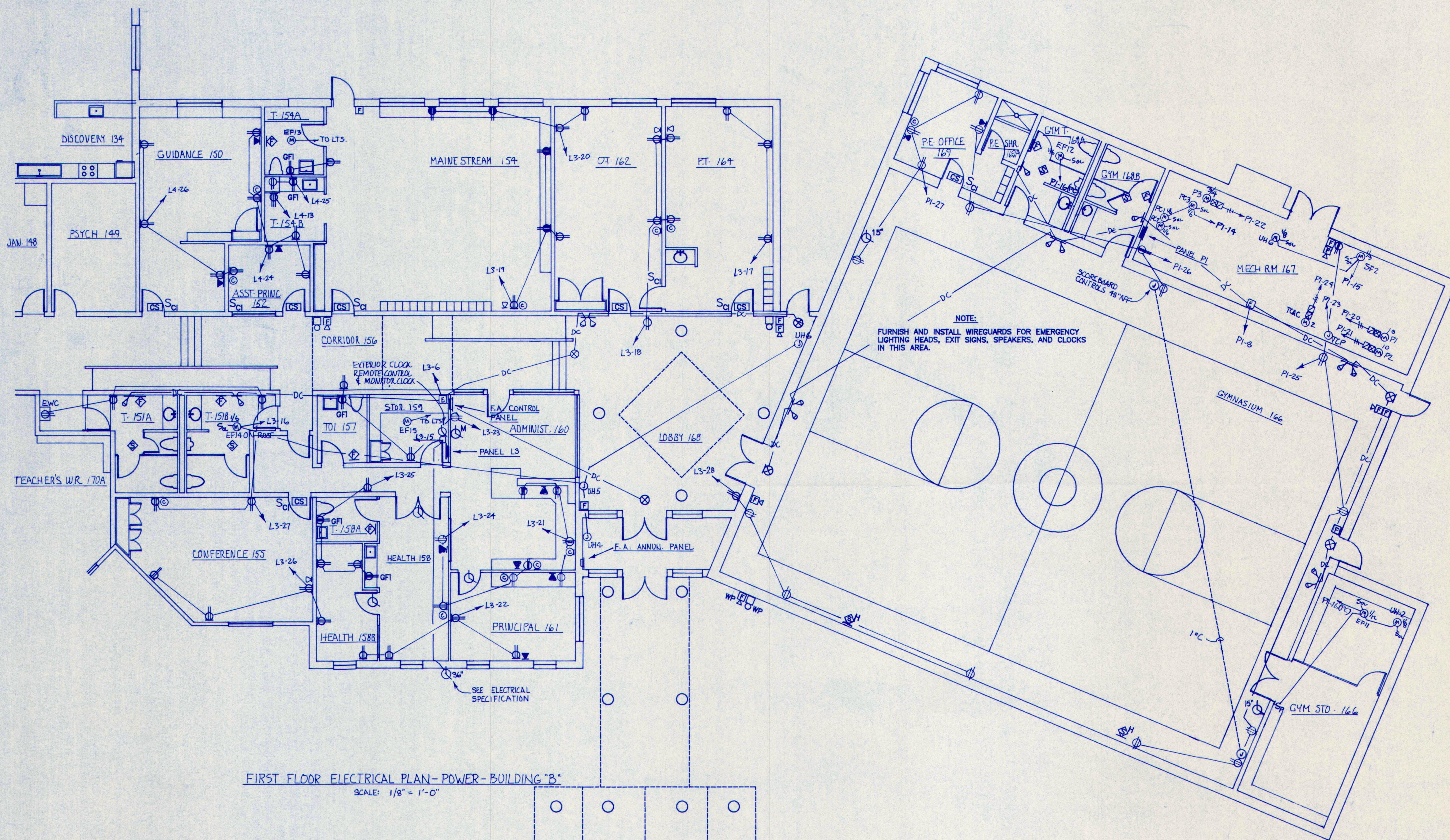
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E 1.7

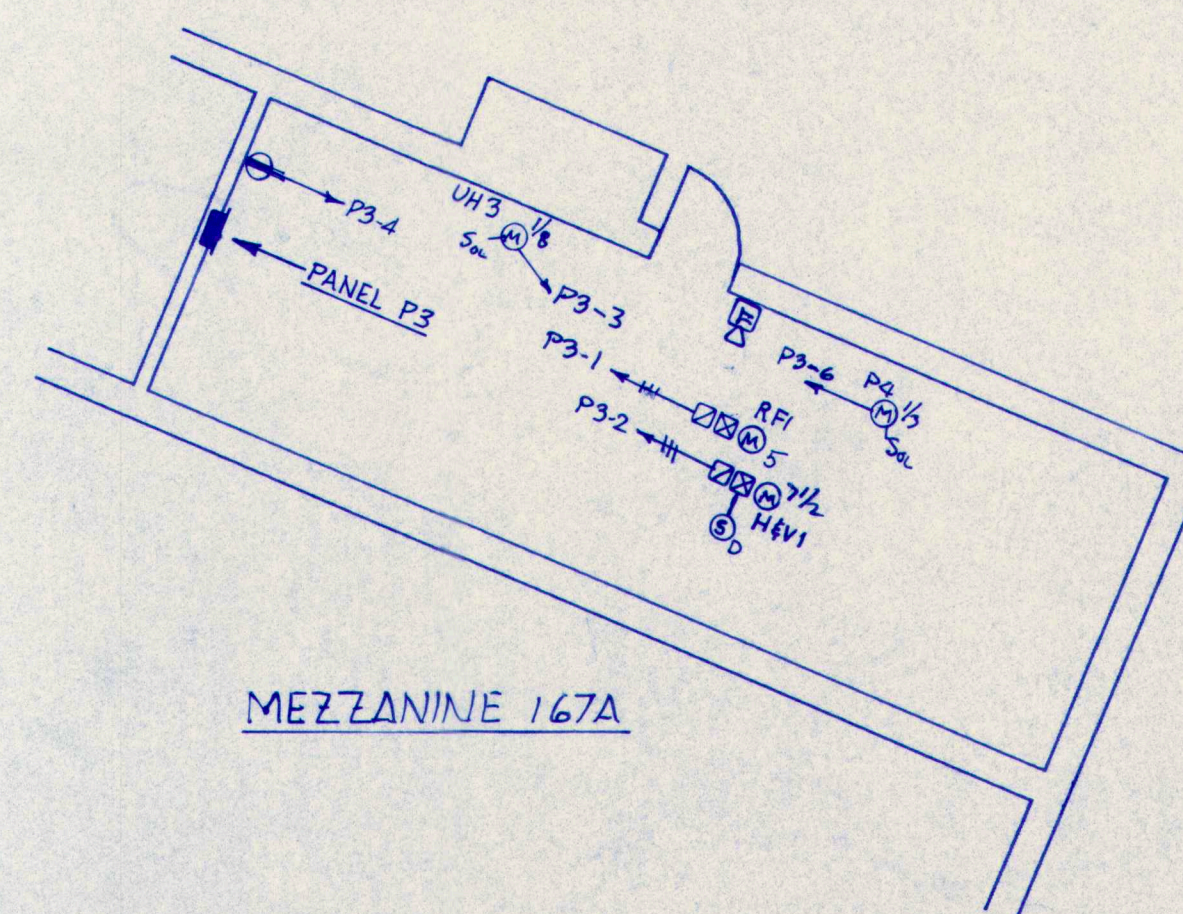
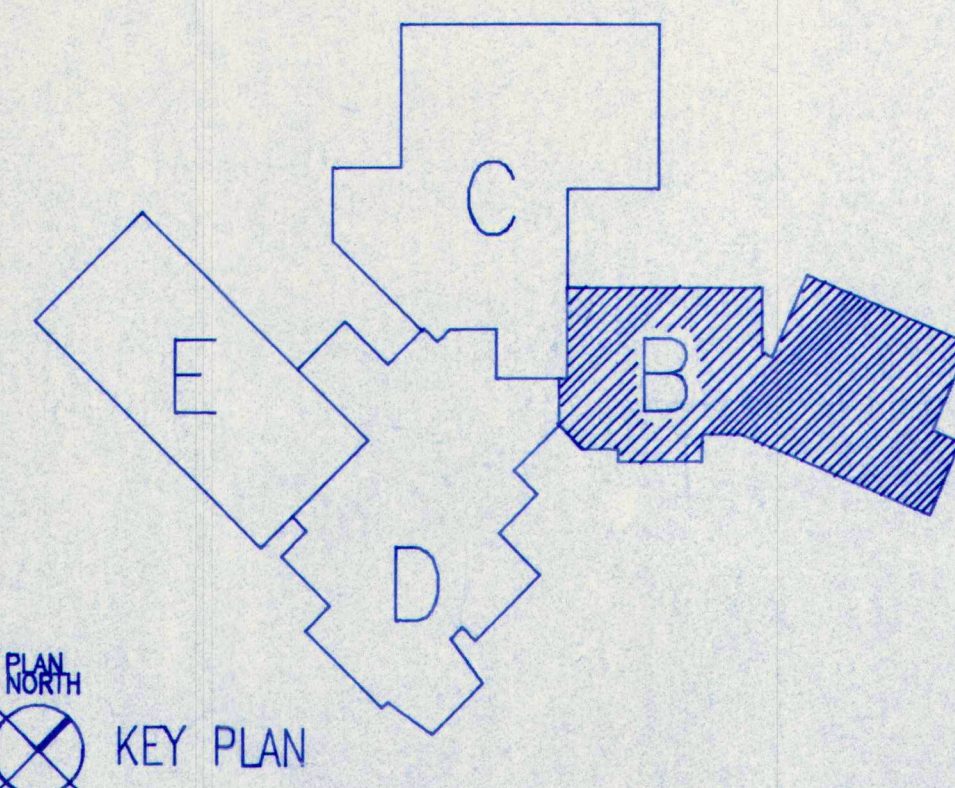
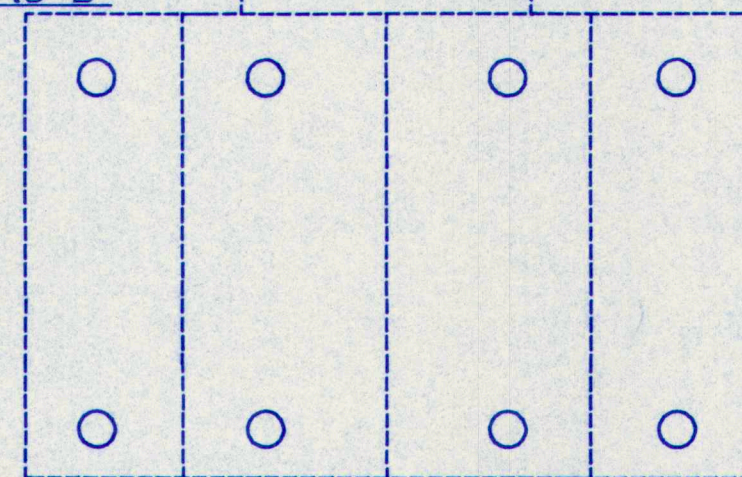
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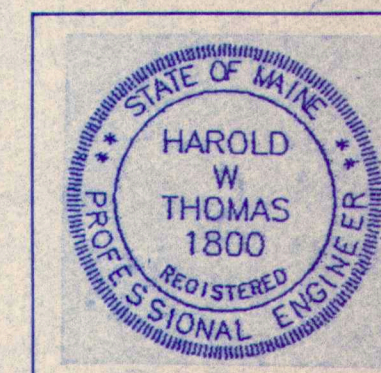




FIRST FLOOR ELECTRICAL PLAN-POWER-BUILDING "B"
SCALE: 1/8" = 1'-0"



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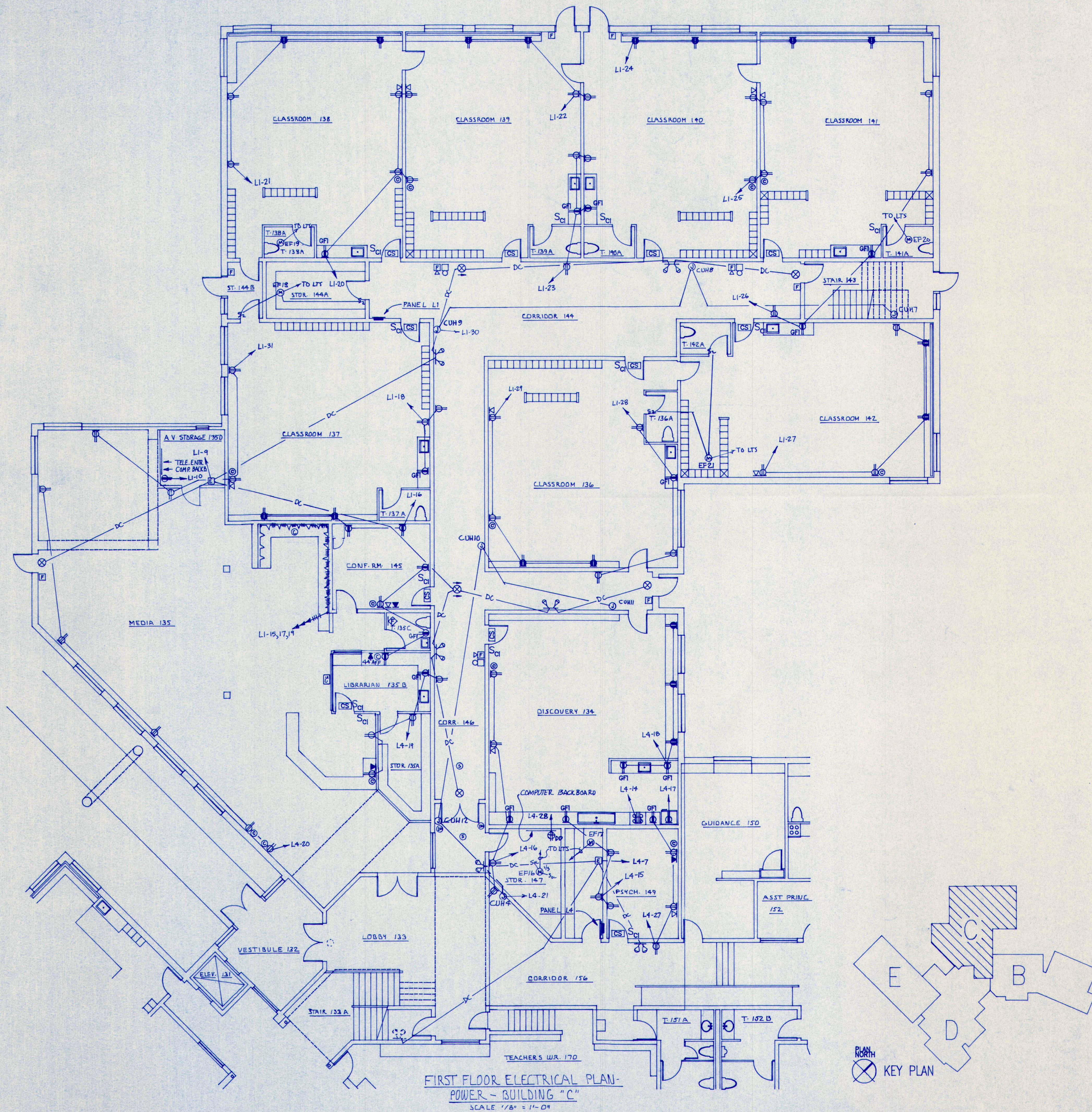
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REVISIONS:
FIRST FLOOR
ELECTRICAL PLAN-
POWER - BUILDING "B"

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E2.2

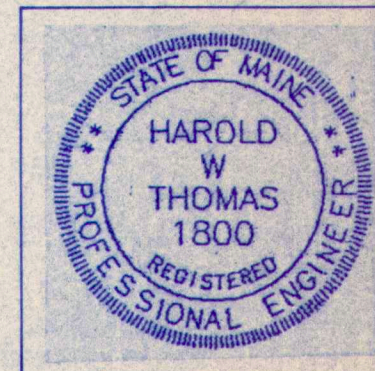
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FIRST FLOOR ELECTRICAL PLAN-
POWER - BUILDING "C"
SCALE 1/8" = 1'-0"

PLAN NORTH
KEY PLAN

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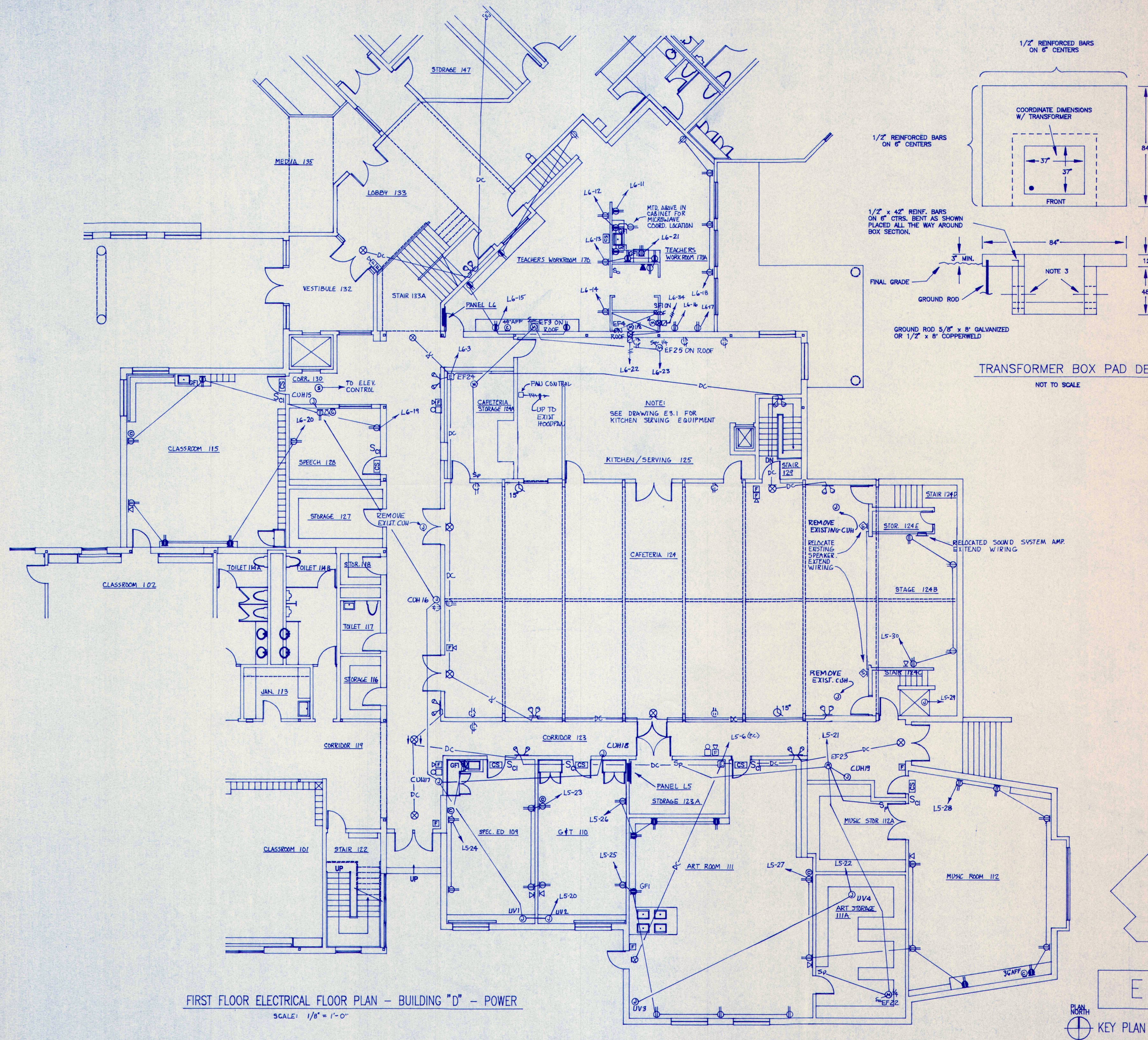
DATE: 28 MAY 93
REVISIONS:
FIRST FLOOR
ELECTRICAL PLAN
POWER - BUILDING "C"

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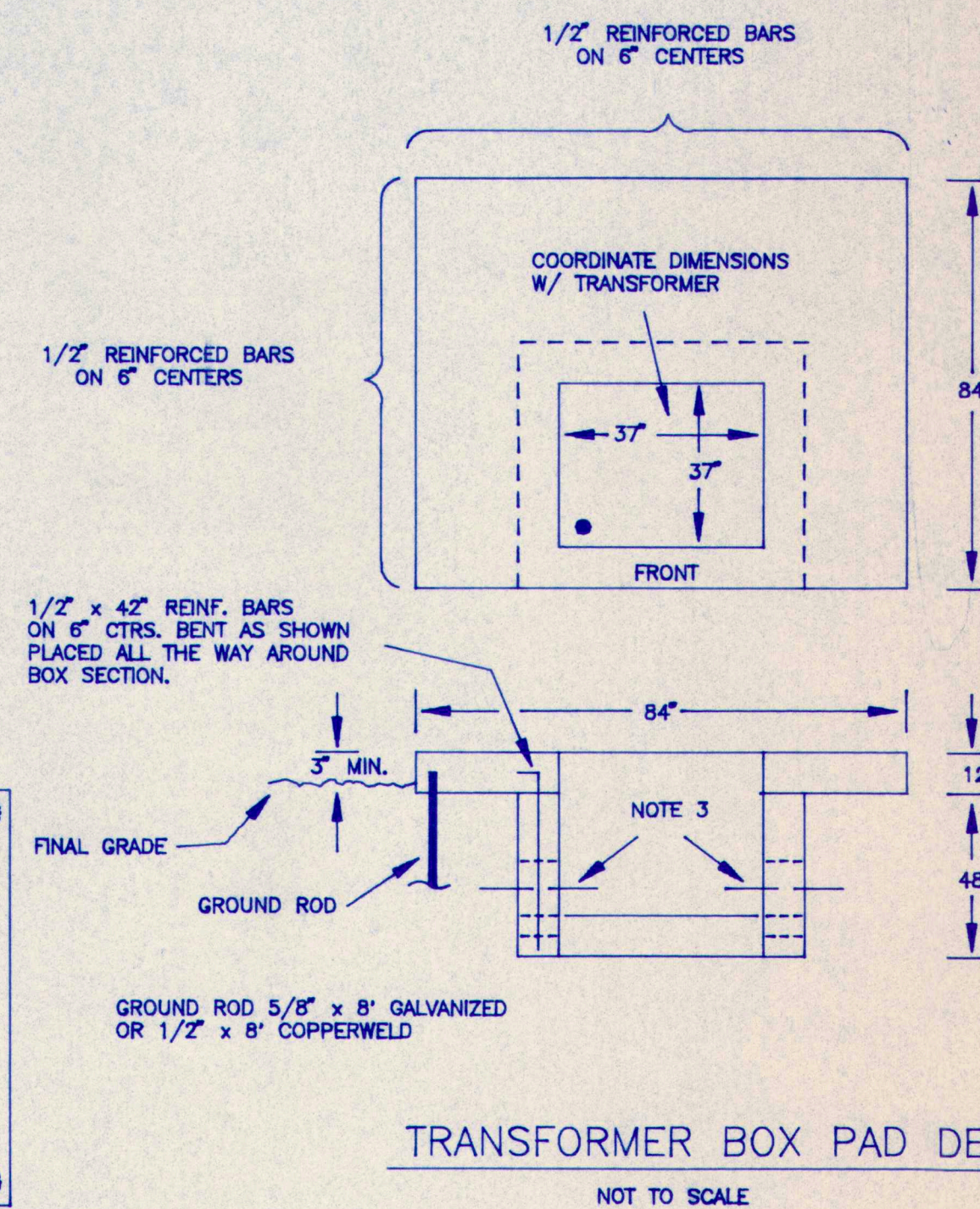
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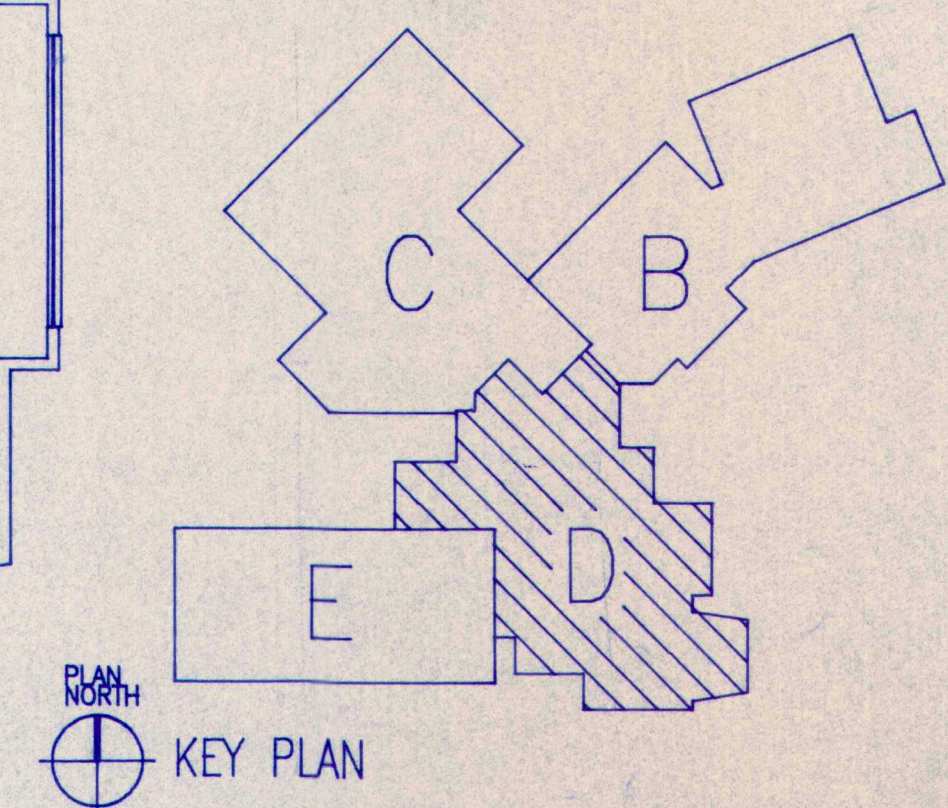
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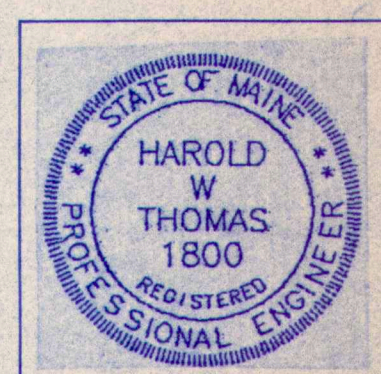
FIRST FLOOR ELECTRICAL FLOOR PLAN - BUILDING "D" - POWER
SCALE: 1/8" = 1'-0"



- NOTES:
1. SET CONCRETE BOX PAD ON SUITABLE GRAVEL BASE AND PROVIDE ADEQUATE DRAINAGE AWAY FROM PAD REINF. AS SHOWN. LOCATION TO BE ACCESSIBLE BY TRUCK AND SUITABLY PROTECTED FROM FLOW AND TRAFFIC DAMAGE.
 2. FRONT DENOTES THE SIDE ON WHICH THE ACCESS DOORS ARE LOCATED. THE PAD MUST BE INSTALLED SO THAT THE FRONT IS READILY ACCESSIBLE.
 3. PROVIDE 8" x 12" CABLE HOLES ONE PER WALL. LINE UP WITH TRENCHES.
 4. DIMENSIONS AND SIZES SHOWN ARE APPROXIMATE ONLY. COORDINATE ALL SIZES AND DETAILS WITH CMP CO.
 5. TRANSFORMER PAD BY GEN. CONTRACTOR.



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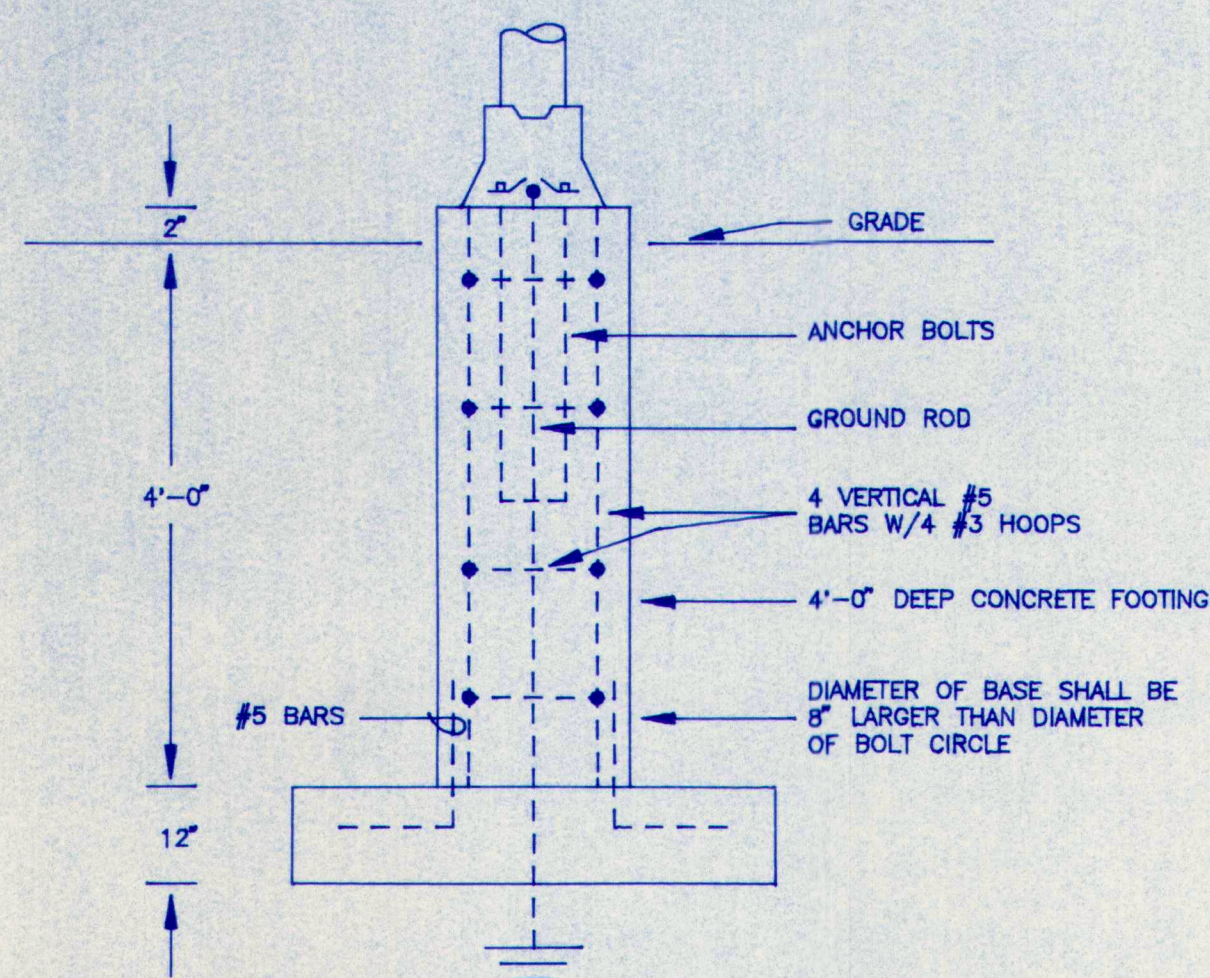
DATE: 28 MAY 93
REVISIONS:
FIRST FLOOR ELECTRICAL
PLAN - POWER -
BUILDING "D"

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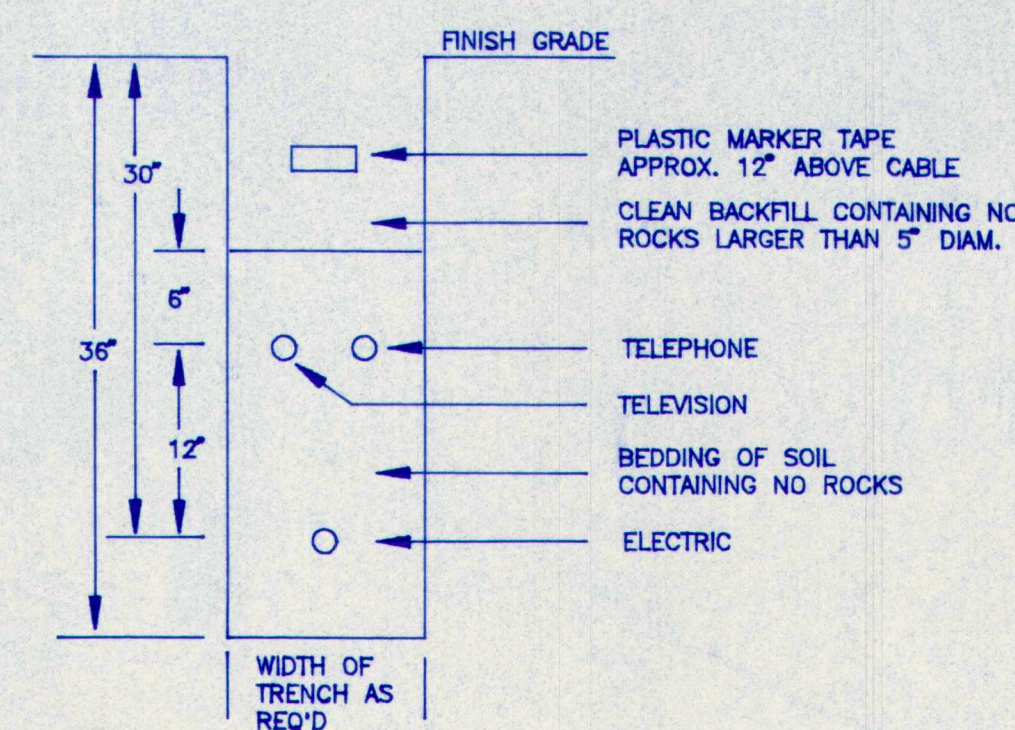
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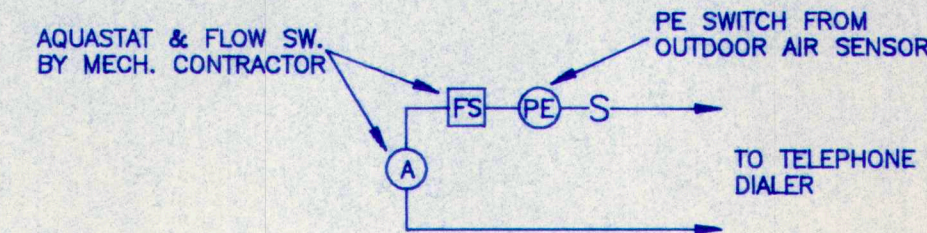
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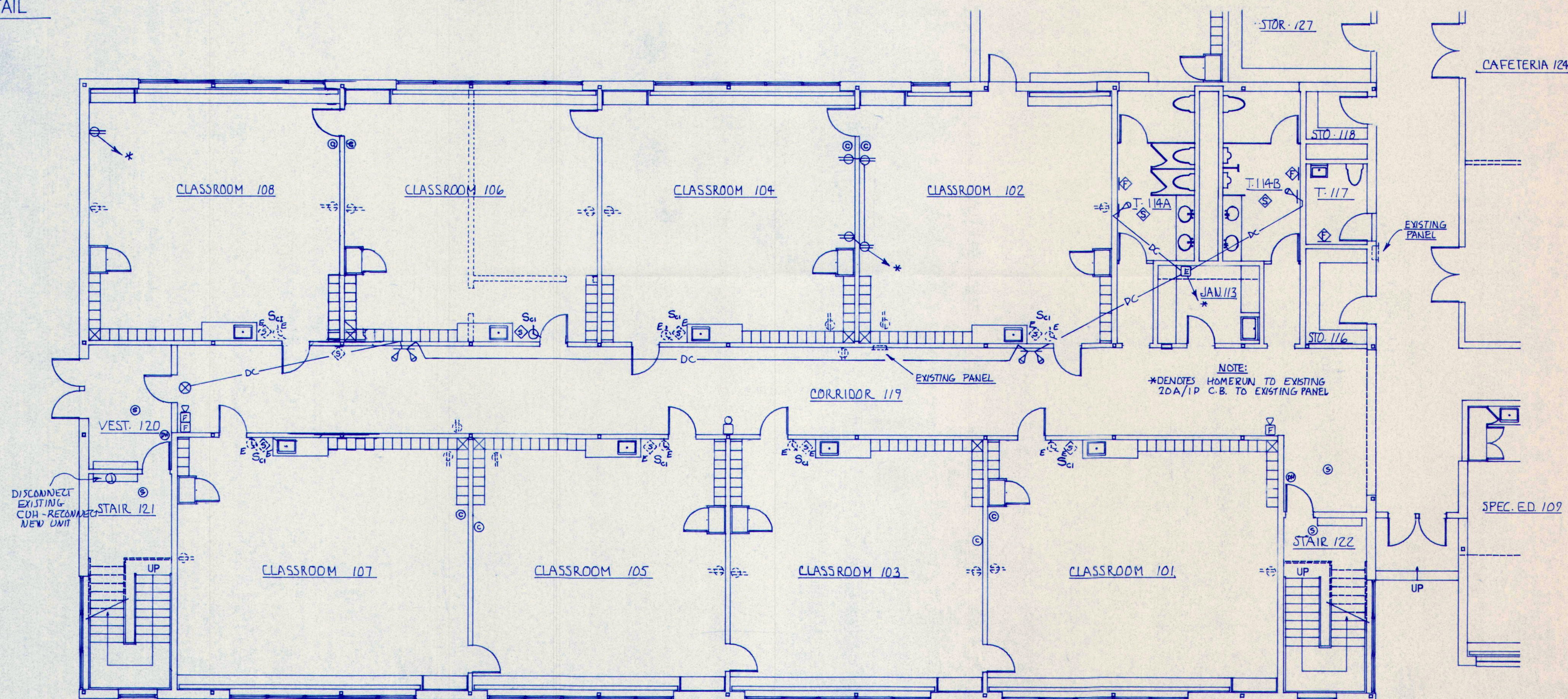
POLE BASE DETAIL
NOT TO SCALE



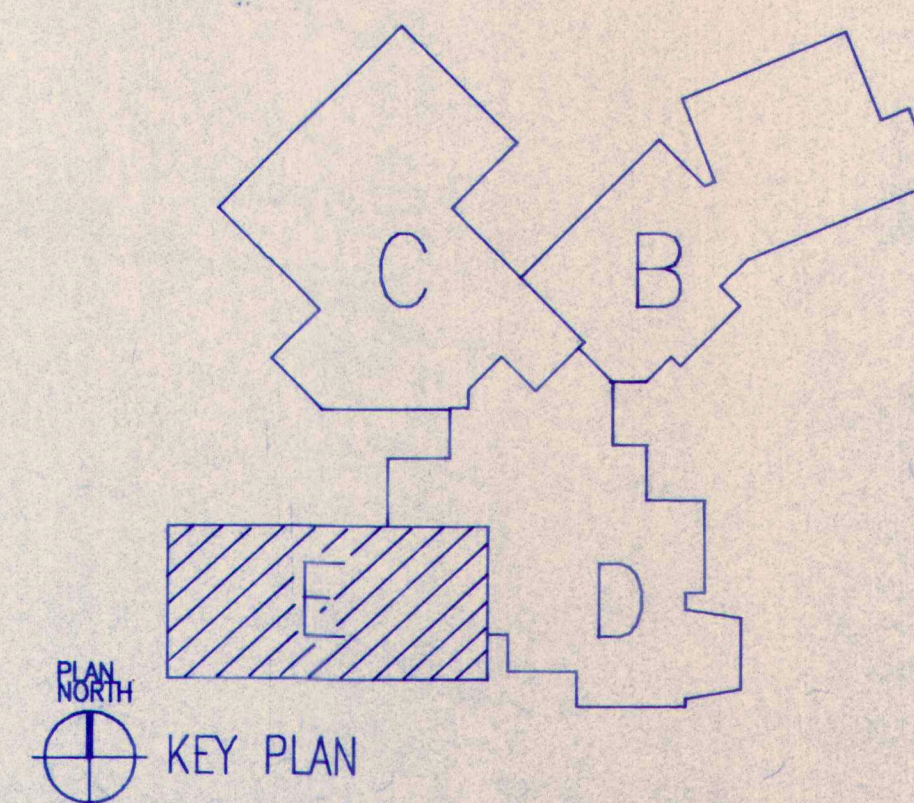
TRENCH DETAIL
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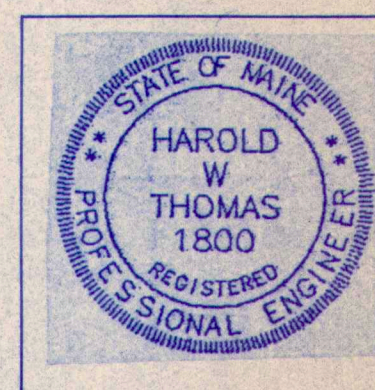
WIRING DIAGRAM FOR BUILDING
LOW HEAT ALARM
NOT TO SCALE



FIRST FLOOR ELECTRICAL PLAN- POWER- BUILDING "E"
SCALE 1/8" = 1'-0"



M.S.A.D. 51 - Addition & Alterations to the
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Cumberland Center, Maine



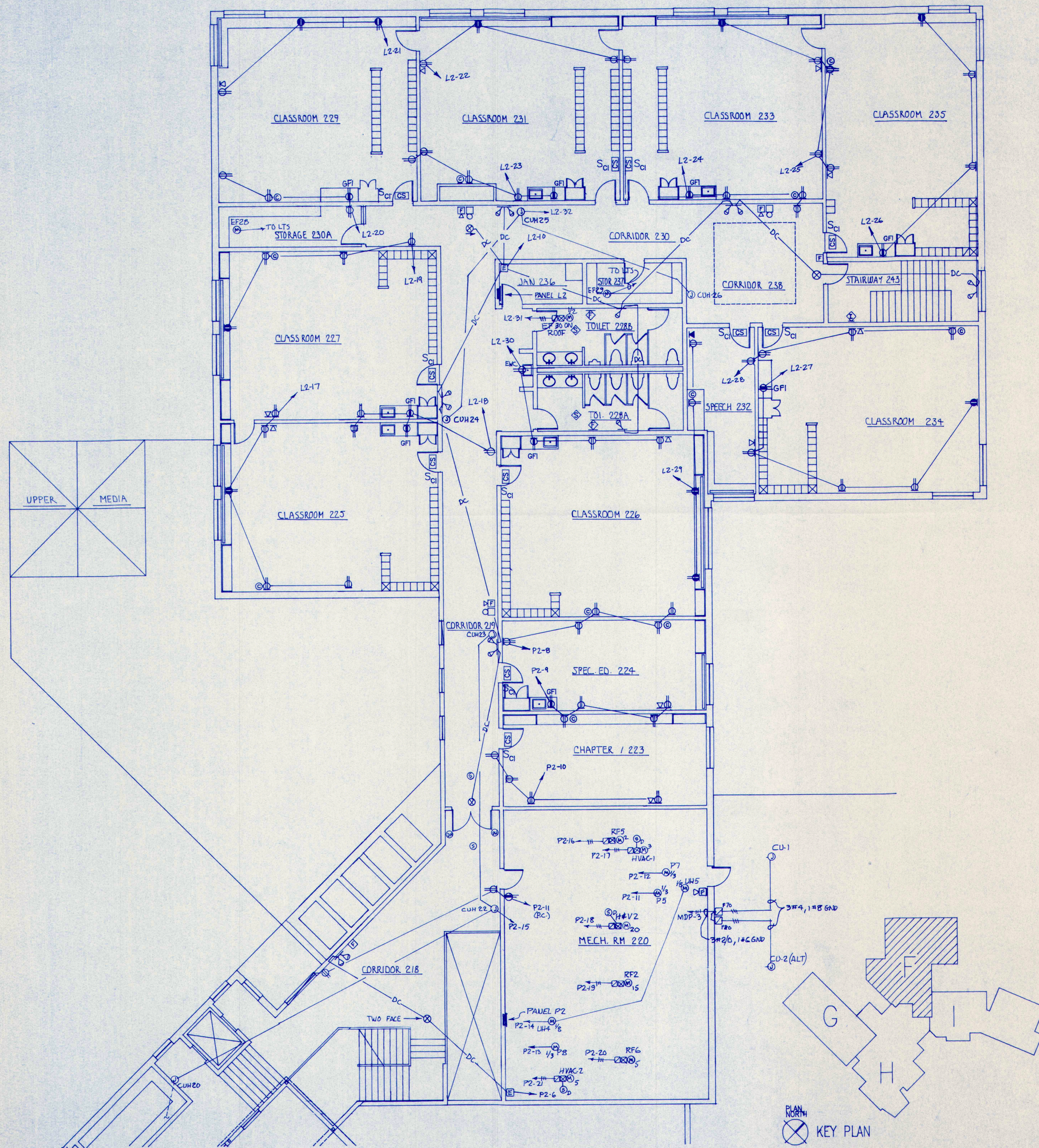
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FIRST FLOOR ELECTRICAL
PLAN- POWER
BUILDING "E"

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SECOND FLOOR ELECTRICAL PLAN - POWER - BUILDING "F"
SCALE 1/8" = 1'-0"

| PANEL SCHEDULE | | | | | |
|---|---|---|--|---|---|
| PANEL | FEEDER | CIRCUIT BREAKERS CIRCUIT | TRIP | POLE | SERVICE |
| L1 225A LUGS 120/208V 3P-4W-SN RECESSED W/SUB FEED LUGS | 4#3/0 1#6 GND. | 1-10,15-31 11-14,32-38 39-42 | 20A 20A --- | 1 1 1 | ACTIVE SPARE SPACE |
| L2 225A LUGS 120/208V 3P-4W-SN RECESSED | 4#1/0 1#6 GND. | 1-11,17-30 12-16,33-38 31 32 38,40 | 20A 20A 15A 20A --- | 1 1 3 1 1 | ACTIVE SPARE EFS MECH. EQUIP. SPACE |
| L3 100A LUGS 120/208V 3P-4W-SN RECESSED | 4#3/0 1#6 GND. | 1-10,15-30 11-14,31-36 37-42 | 20A 20A --- | 1 1 1 | ACTIVE SPARE SPACE |
| L4 225A LUGS 120/208V 3P-4W-SN RECESSED | 4#1/0 1#6 GND. | 1-9,15-21,24-28 10-12,29-34 13 14 22,23 35-38 | 20A 20A 40A 50A 20A --- | 1 1 2 3 2 1 | ACTIVE SPARE COOKTOP RANGE EXT. LTG. SPACE |
| L5 225A LUGS 120/208V 3P-4W-SN RECESSED TWO SECTION | 4#3/0 1#6 GND. | 1-7,23-28,30 8-13,31-41 14 15 16 17,18 19 20-22 29 42-49 | 20A 20A 20A 50A 15A 20A 20A --- | 1 1 2 3 3 1 1 1 | ACTIVE SPARE EXT. LTG. H&V3 RF3 H&V4,RF4 P6 MECH. EQUIP. HANDICAP LIFT SPACE |
| L6 225A LUGS 120/208V 3P-4W-SN RECESSED TWO SECTION | 4#1/0 1#6 GND. | 1-5,11-20,24-28 6-10,35-46 21 22 23 29,30 31 32 33 34 47-49 | 20A 20A 40A 15A 20A 20A 35A 15A 20A 15A --- | 1 1 2 3 1 3 3 3 1 3 1 | ACTIVE SPARE COOKTOP EFS MECH. EQUIP. HOT FOOD BOOSTER DISHWASHER SERVER SF1 SPACE |
| P1 225A LUGS 120/208V 3P-4W-SN RECESSED | 4#3/0 1#6 GND. | 1-9,25-28 10 11-13,28,29 14-16 17,18 19 20,21 22 23 24 | 20A 20A 20A 20A 20A 20A 15A 20A 15A --- | 1 2 1 1 1 1 3 3 3 3 | ACTIVE EXT. LTG. SPARE MECH. EQUIP. BLR1,BLR2 DOM. HW P1,P2 P3 TCP TCAC |
| P2 400A LUGS 120/208V 3P-4W-SN RECESSED | 4#500 MCM 1#3 GND. | 1-8,22 9,10,25-28 11-15 16 17 18 19 20 21 29,30 | 20A 20A 20A 15A 20A 100A 80A 35A 35A --- | 1 1 1 3 3 3 3 3 3 1 | ACTIVE SPARE MECH. EQUIP. RF5 HVAC1 H&V2 RF2 RF8 HVAC2 SPACE |
| P3 100A LUGS 120/208V 3P-4W-SN RECESSED | 4#3/0 1#6 GND. | 1 2 3 4,5 6 7-12 13-16 | 35A 50A 20A 20A 20A 20A --- | 3 3 1 1 1 1 1 | RF1 H&V1 MECH. EQUIP. ACTIVE P4 SPARE SPACE |
| K1 225A LUGS 120/208V 3P-4W-SN RECESSED | 4#1/0 1#6 GND. | 1-5,15,17,18-22 6-12,33-36 13 14 16 23 24-29,31,32 30 | 20A 20A 15A 35A 20A 30A 20A 30A --- | 1 1 3 3 2 1 1 2 | ACTIVE SPARE COND. COND. EVAP HTR. CAB. ACTIVE DRYER |
| K2 100A LUGS 120/208V 3P-4W-SN RECESSED | 4#3/0 1#6 GND. | 1 2,3,9-13,17,18 4 5 6 7 8 14,19-26 27-32 | 15A 20A 15A 70A 15A 20A 20A --- | 3 1 1 3 3 1 1 1 | DISPOSER ACTIVE DISPOSER WASHER MIXER OVEN PROOF SPARE SPACE |
| MDP 1600A LUGS 120/208V 3P-4W-SN SURFACE | 4 SETS 4#500 MCM 1#1/0 GND. EACH COND. | 1 2 3 4,5 6 7 8-10 11-13 14-16 18,19 17 | 125A 100A 150A 175A 150A 400A 200A 150A 100A 15A --- | 3 3 3 3 3 3 3 3 3 3 3 | ELEVATOR BOOSTER HEATER CU1 & CU2 EXISTING PANELS EXISTING PANEL PANEL P2 PANELS L1,L5,P1 PANELS L3,P3,K2 SPACE ONLY SPRINKLER |
| MIN. RATING OF MDP CKT. BREAKERS SHALL BE 42,000 AIC. | | | | | |

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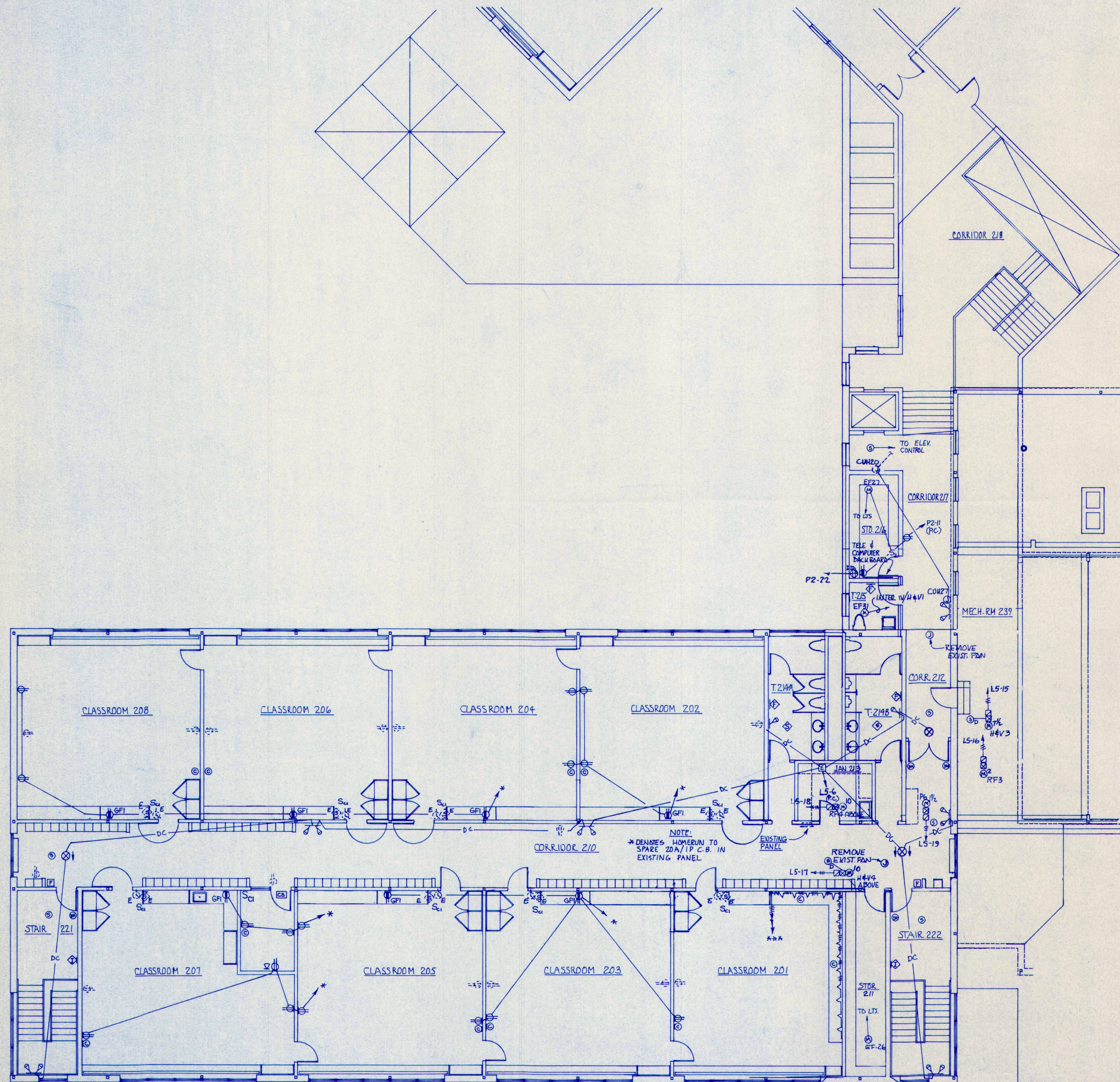


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SECOND FLOOR
ELECTRICAL PLAN
POWER
BUILDING "F"

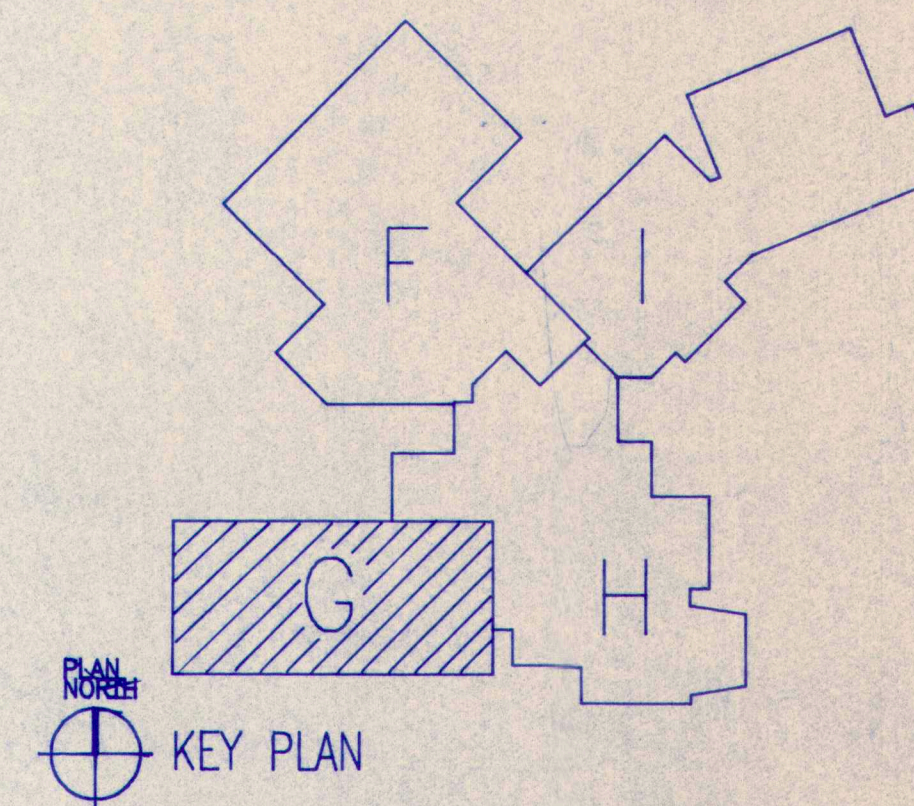
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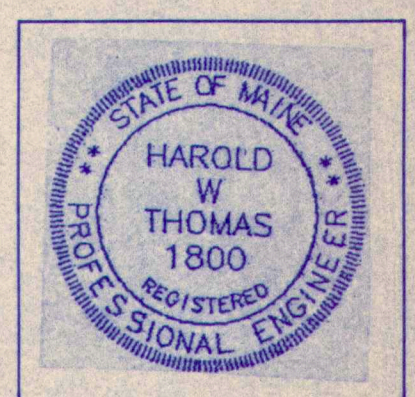
E2.6



SECOND FLOOR ELECTRICAL PLAN- POWER - BUILDINGS "G" & "H"
SCALE 1/8" = 1'-0"



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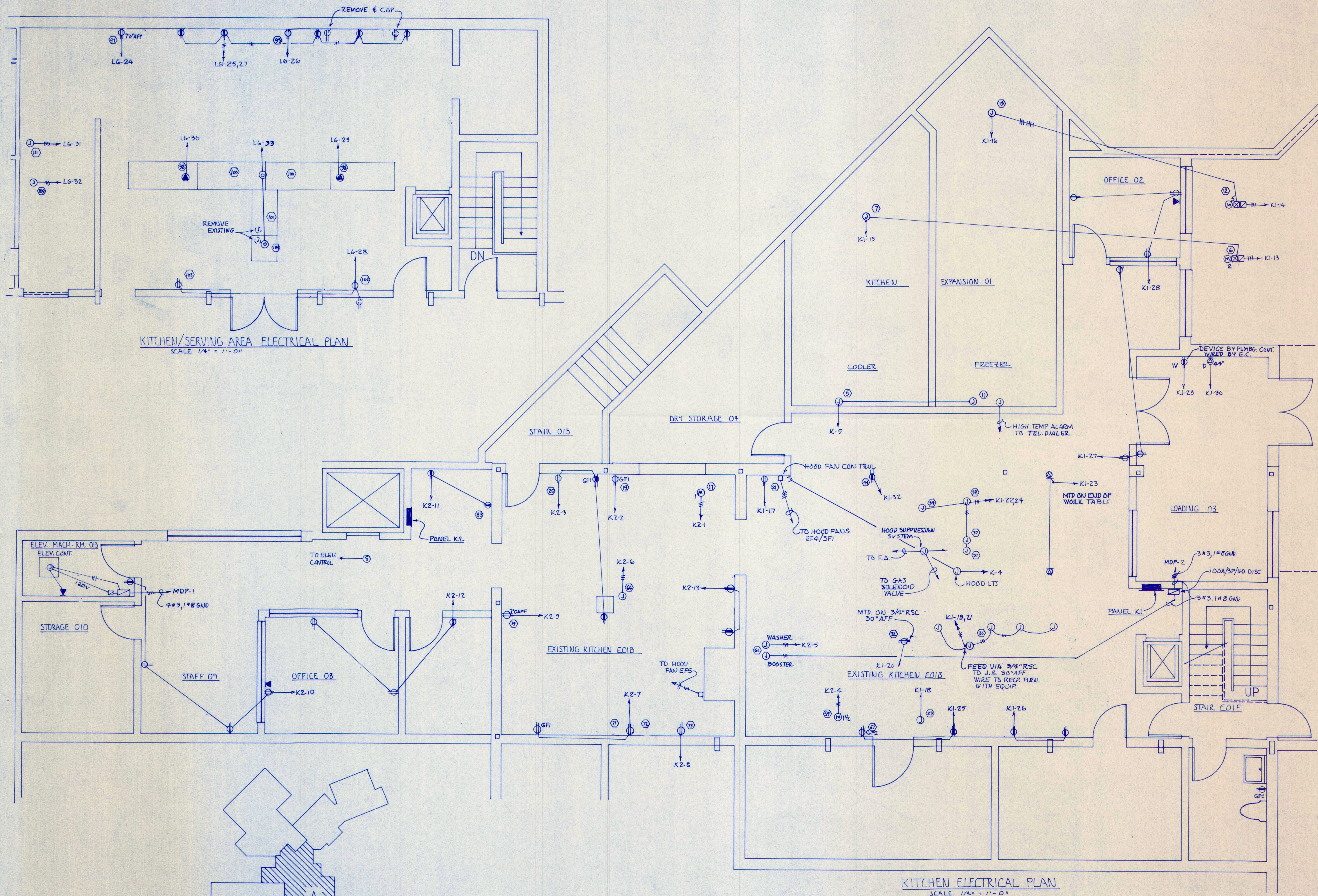
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SECOND FLOOR ELECTRICAL
PLAN - POWER -
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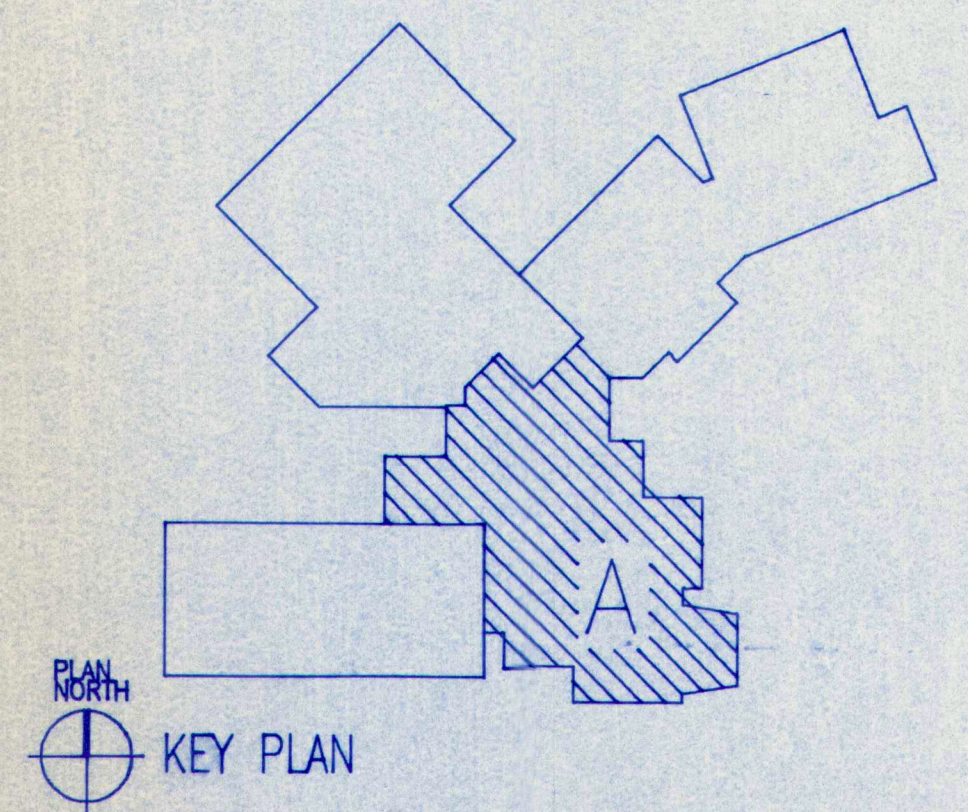
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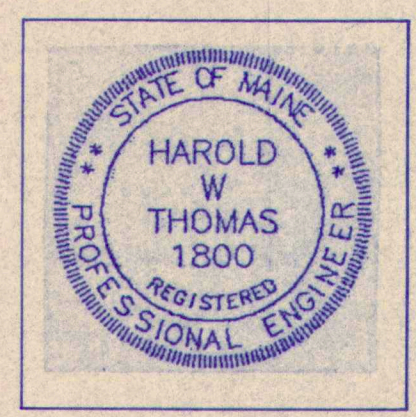
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KITCHEN/SERVING AREA ELECTRICAL PLAN
SCALE 1/4" = 1'-0"



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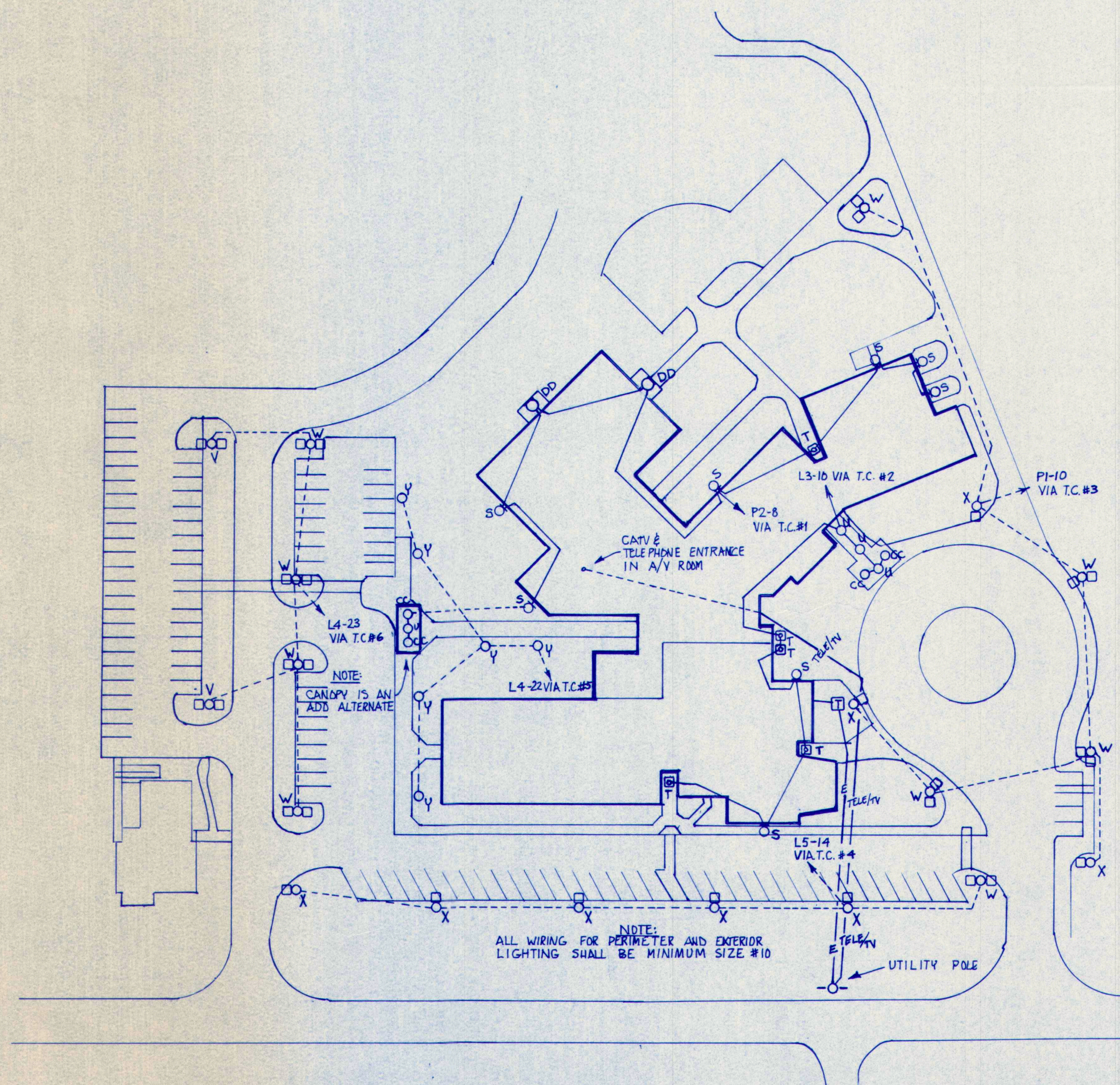
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REVISIONS:
KITCHEN AND
KITCHEN SERVING
ELECTRICAL PLANS

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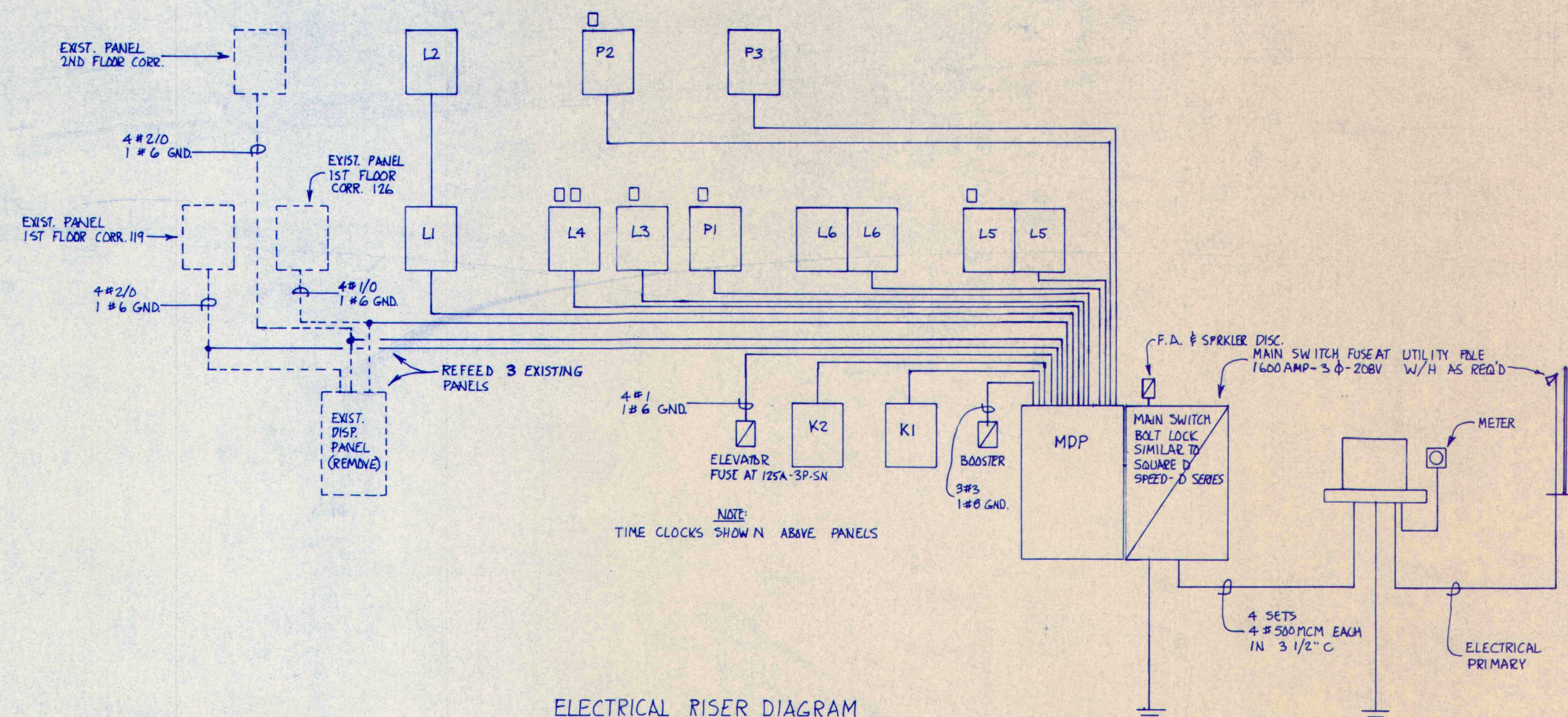
E 3.1

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ELECTRICAL SITE PLAN

SCALE: 1" = 40' APPROX.
REFER TO PROJECT SITE PLAN FOR ALL DIMENSIONS
LOCATIONS ARE APPROXIMATE

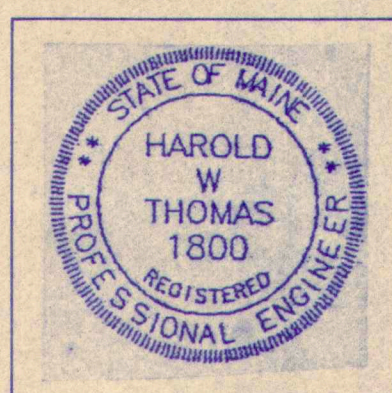


ELECTRICAL RISER DIAGRAM
NOT TO SCALE

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ELECTRICAL SITE PLAN
AND ELECTRICAL
DETAILS

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