

HEATING, VENTILATING, & AIR CONDITIONING SYMBOL LIST

HVAC FLOW/RISER DIAGRAM LEGEND	
	AH AIR HANDLING UNIT
	SPACE GAINER AIR HANDLING UNIT (CUSTOM MADE AHU)
	CHILLERS
	COOLING COIL
	HEATING COIL
	COOLING TOWERS (INDUCED DRAFT)
	CENTRIFUGAL FAN
	FAN COIL UNIT
	PLATE & FRAME HEAT EXCHANGER
	PUMP
	RETURN/EXHAUST AIR DIRECTION
	SUPPLY AIR FLOW
	VAV BOX
	UNIT HEATER

DUCTWORK LEGEND	
	FUSIBLE LINK FIRE DAMPER W/DUCT ACCESS DOOR OR (SMOKE DAMPER) (COMBINATION FRESMOKE DAMPER)
	ELBOW WITH TURNING VANES
	BRANCH TAKEOFF
	RADIUS ELBOW
	VAV BOX VAV DESIGNATION (CFM)
	FAN POWERED BOX BOX DESIGNATION TOTAL CFM
	LINEAR DIFFUSER
	CEILING DIFFUSER (4-WAY)
	DOUBLE SIDED AIR LIGHT TROFFER
	SINGLED SIDED AIR LIGHT TROFFER
	RETURN REGISTER OR GRILLE
	FLEXIBLE DUCT
	OPENING IN WALL ABOVE HUNG CEILING (SIZE)
	SUPPLY REGISTER
	RETURN OR EXHAUST REGISTER OR GRILLE
	DOOR LOUVER (SIZE)
	UNDERCUT DOOR
	SQUARE FEET
	DIAMETER
	FIRE RATED ENCASED DUCT
	SUPPLY DUCT UP (DISCHARGE SIDE OF FAN)

DUCTWORK LEGEND (CONTINUED)	
	SUPPLY DUCT DOWN (DISCHARGE SIDE OF FAN)
	RETURN OR EXHAUST DUCT UP (SUCTION SIDE OF FAN)
	RETURN OR EXHAUST DUCT DOWN (SUCTION SIDE OF FAN)
	SLOPING RISE IN DUCTWORK
	SLOPING DROP IN DUCTWORK
	ACCESS DOOR IN DUCT
	DUCT SIZE (CLEAR INSIDE DIMENSION) FIRST FIGURE INDICATES PLAN SIZE
	ROUND DUCT DIAMETER SIZE (CLEAR INSIDE DIMENSION)
	ACOUSTIC LINING IN DUCT (DUCT SIZE NOTED INDICATES INSIDE DIMENSIONS)
	FLEXIBLE CONNECTION
	VOLUME DAMPER
	AUTOMATIC LOUVER DAMPER (MOTORIZED)

PIPING LEGEND	
	CONDENSER WATER SUPPLY
	CONDENSER WATER RETURN
	CHILLED WATER SUPPLY
	DOMESTIC COLD WATER MAKE-UP
	ARROW INDICATES DIRECTION OF FLOW
	PITCH PIPE DOWN IN DIRECTION OF ARROW
	DRAIN LINE
	PIPE ANCHOR
	PIPE GUIDE
	EXPANSION COMPENSATOR
	EXPANSION LOOP (SIZE W x H)
	CAPPED PIPE
	DIRT POCKET
	T-Y TYPE STRAINER
	BASKET TYPE STRAINER
	ELBOW TURNED UP
	ELBOW TURNED DOWN
	BOTTOM PIPE CONNECTION
	TOP PIPE CONNECTION

PIPING LEGEND (CONTINUED)	
	SLOPED CHANGE IN PIPE ELEVATION
	FLEXIBLE CONNECTION
	GATE VALVE
	GLOBE VALVE
	CHECK VALVE
	AUTOMATIC THREE-WAY CONTROL VALVE
	AUTOMATIC TWO-WAY CONTROL VALVE
	RELIEF VALVE
	ANGLE RELIEF VALVE
	PRESSURE REDUCING VALVE (PRV)
	LUBRICATED PLUG VALVE
	LOCKSHIELD GLOBE VALVE
	SOLENOID VALVE
	BUTTERFLY VALVE (MANUAL)
	BUTTERFLY VALVE (MOTORIZED)
	BALL VALVE
	MANUAL AIR VENT
	AUTOMATIC AIR VENT
	THERMOMETER
	PIPE SENSOR WELL (THERMOMETER)
	PRESSURE GAUGE AND COCK
	FLOW BALANCING STATION
	SLEEVE
	WATER PROOF SLEEVE

ABBREVIATIONS	
ABV	ABOVE
AC	AIR CONDITIONING
ACS	AIR CONDITIONING SUPPLY
AD	ACCESS DOOR
AF	ABOVE FINISHED FLOOR
AH	AIR HANDLER
AL	ACOUSTICAL LINING
ALD	AUTOMATIC LOUVER DAMPER (MOTORIZED)
ATC	AUTOMATIC TEMPERATURE CONTROL
B D D	BACK DRAFT DAMPER
B G	BOTTOM GRILLE
BMS	BUILDING MANAGEMENT SYSTEM
BO	BLANK OFF
B R	BOTTOM REGISTER
BHP	BRAKE HORSE POWER
BTU	BRITISH THERMAL UNIT
CC	COOLING COIL
C D	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
C G	CEILING GRILLE
CH	CABINET HEATER
C O	CLEAN OUT
C R	CEILING REGISTER
CT	COOLING TOWER
DN	DOWN
E A T	ENTERING AIR TEMPERATURE
E C H	ELECTRIC CABINET HEATER
EF	EXHAUST FAN
EHC	ELECTRIC HEATING COIL
ELH	ELECTRIC UNIT HEATER
E W T	ENTERING WATER TEMPERATURE
FC	FLEXIBLE CONNECTION
FCU	FAN COIL UNIT
FEPR	FUSIBLE LINK FIRE DAMPER W/DUCT ACCESS DOOR
FL	FLOOR
F.L.A.	FULL LOAD AMPS
FLR	FUSIBLE LINK REGISTER
FPB	FAN POWERED BOX
FSD-FL	COMBINATION FRESMOKE DAMPER WITH FUSIBLE LINK

ABBREVIATIONS	
FDPR	FIRE DAMPER
GPM	GALLONS PER MINUTE
GX	GENERAL EXHAUST
HC	HEATING COIL
HP	HORSE POWER
HSD	COMBINATION HEATSMOKE DAMPER
HX	HEAT EXCHANGER
I D	INSIDE DIMENSION
KW	KILOWATT
KWH	KILOWATT HOURS
KX	KITCHEN EXHAUST
L A T	LEAVING AIR TEMPERATURE
LD	LINEAR DIFFUSER (CEILING, WALL, SILL OR FLOOR)
L.R.A.	LOAD RATED AMPS
LWS	LOUVER WITH WIRE SCREEN
L W T	LEAVING WATER TEMPERATURE
M A T	MIXED AIR TEMPERATURE
MAX	MAXIMUM
MBH	THOUSAND BTU PER HOUR
MIN	MINIMUM
MO (NO)	MASONRY OPENING (WALL OPENING)
N C	NORMALLY CLOSED
N F A	NET FREE AREA
N I C	NOT IN THIS CONTRACT
N O	NORMALLY OPEN
N T S	NOT TO SCALE
OA	OUTSIDE AIR
ODD	ODDISED BLADE DAMPER
P	PUMP
PD	PUMPED DISCHARGE
PHC	PIE HEAT COIL
PHX	PLATE HEAT EXCHANGER
PSI	POUNDS PER SQUARE INCH (GAUGE)
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
RA	RETURN AIR
RF	RETURN FAN
RHC	REHEAT COIL
RM	REFRIGERATION MACHINE
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SDPR	SMOKE DAMPER
SF	SUPPLY FAN
SP	STAIR PRESSURIZATION
ST	SOUND TRAP
SX	SMOKE EXHAUST
TF	TRANSFER FAN
T G	TOP GRILLE
T R	TOP REGISTER
TRD	TRANSFER DUCT
TRG	TRANSFER GRILLE
TX	TOILET EXHAUST
UH	UNIT HEATER
UHE	UNIT HEATER (ELECTRIC)
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
WMS	WIRE MESH SCREEN
(X00)	CUBIC FEET OF AIR PER MINUTE OR GALLONS PER MINUTE

CONTROLS LEGEND	
	TOTALIZING FLOW METER
	TOTALIZING B.T.U. METER
	THERMOSTAT
	SMOKE DETECTOR

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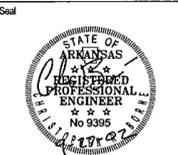
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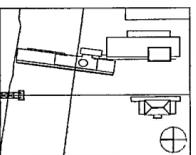
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CROMWELL AE 99-114

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Title:

HVAC SYMBOLS & ABBREVIATIONS

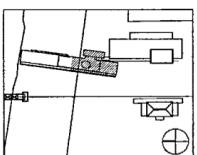
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Scale 1/8" = 1'-0"

Date SEPTEMBER 27 2002

Title MUSEUM
BASEMENT LEVEL
MECHANICAL
PARTIAL PLAN

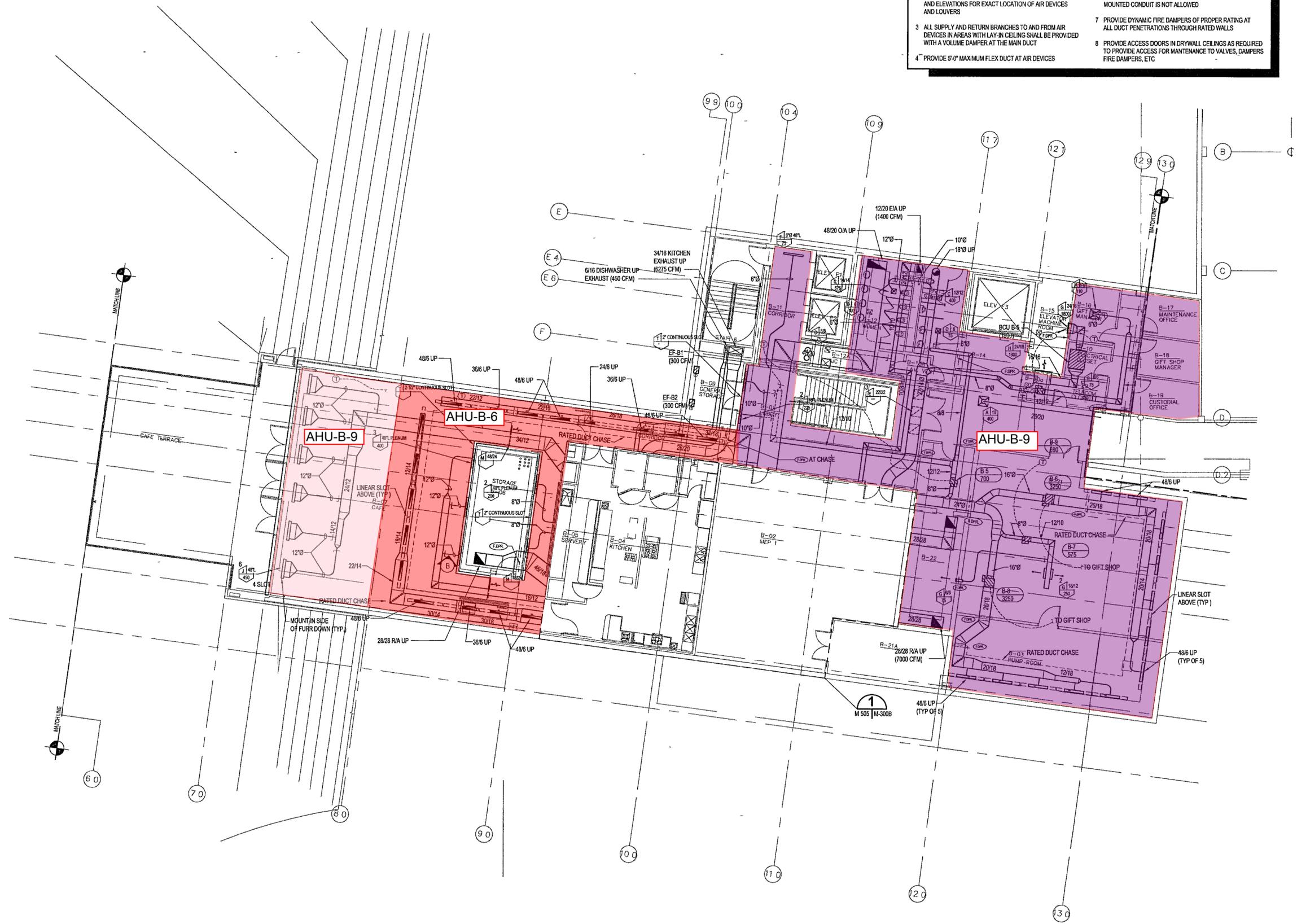
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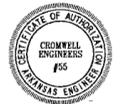
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GENERAL NOTES.

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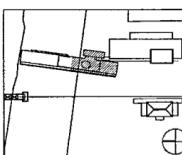


1 MUSEUM - BASEMENT LEVEL MECHANICAL PARTIAL PLAN
M300b | M300b 1/8" = 1'-0"





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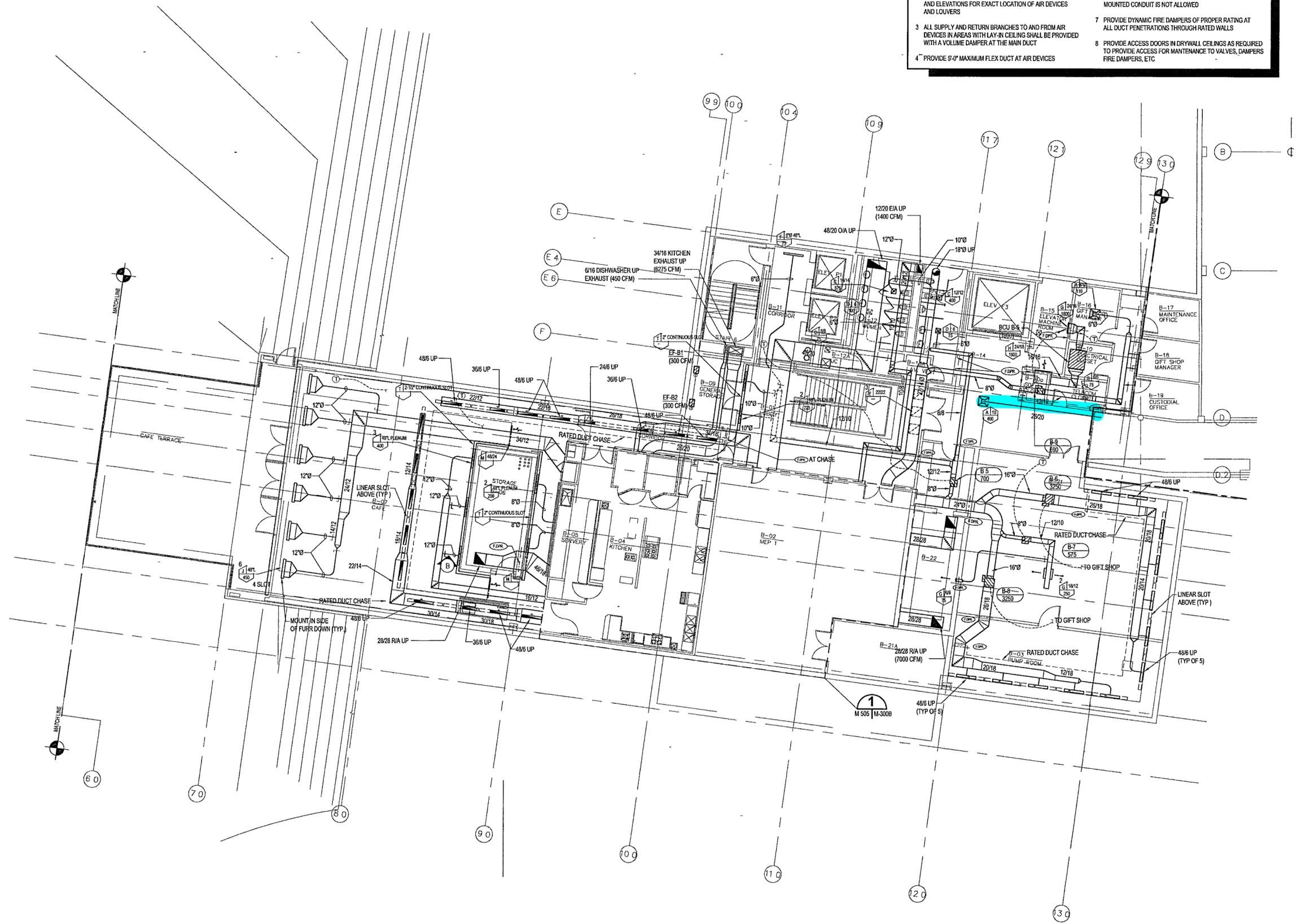
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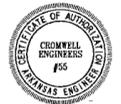
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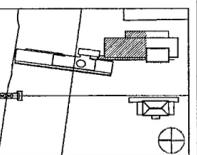
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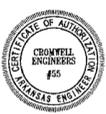
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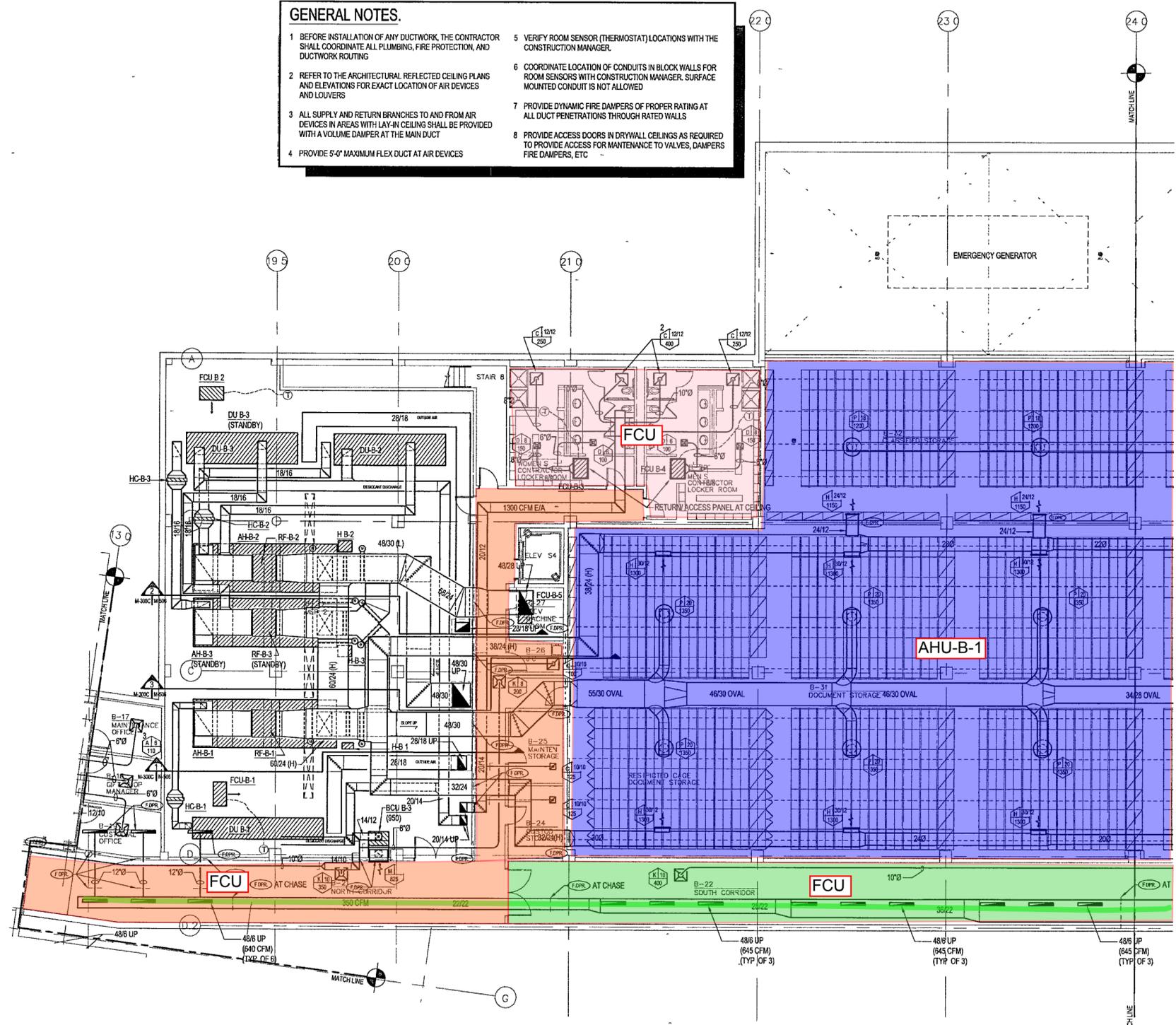
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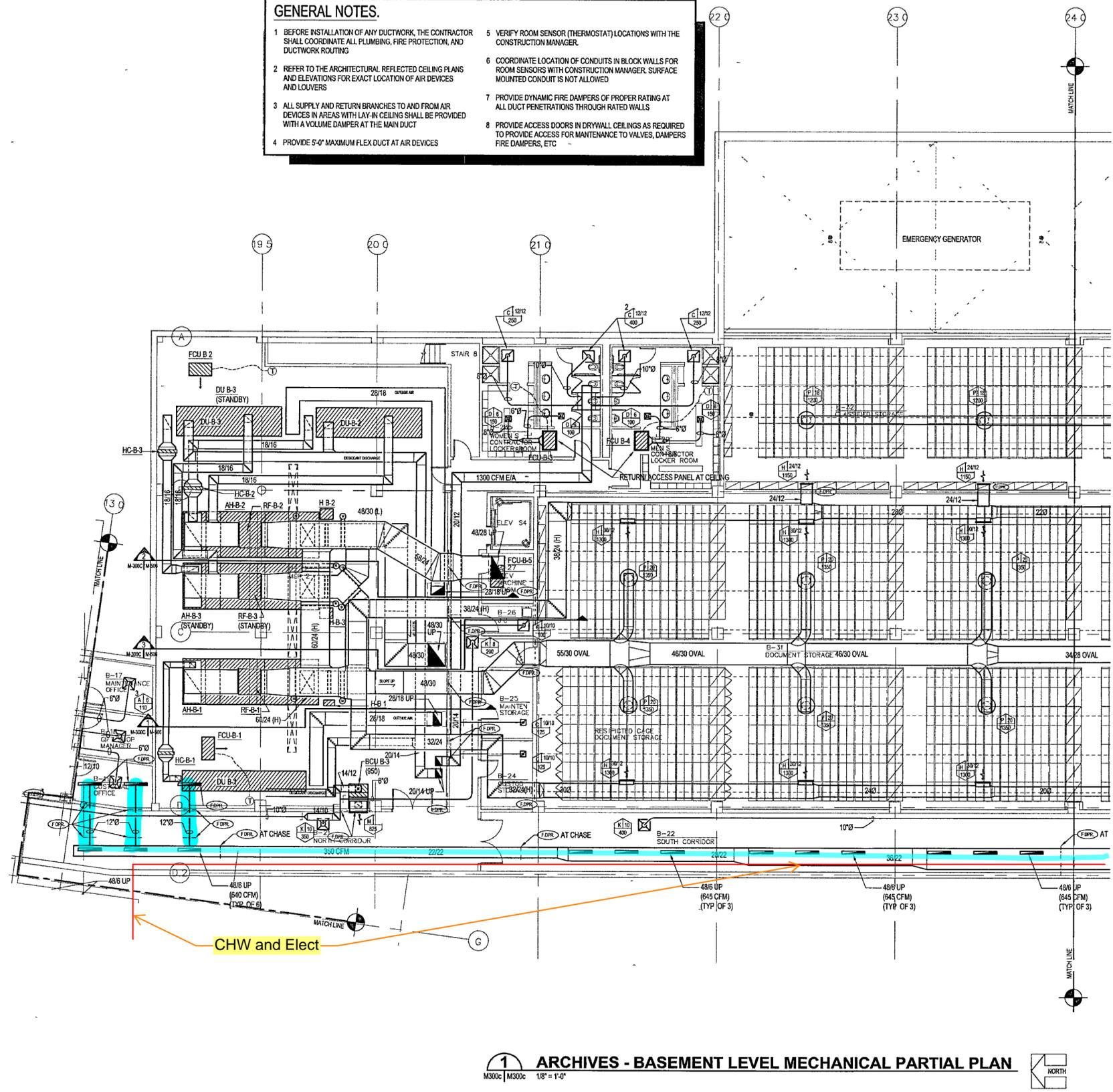


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M300C | M300C | 1/8" = 1'-0"



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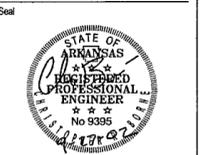
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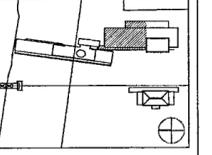
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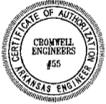
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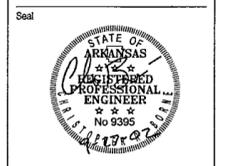
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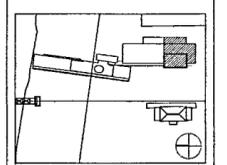
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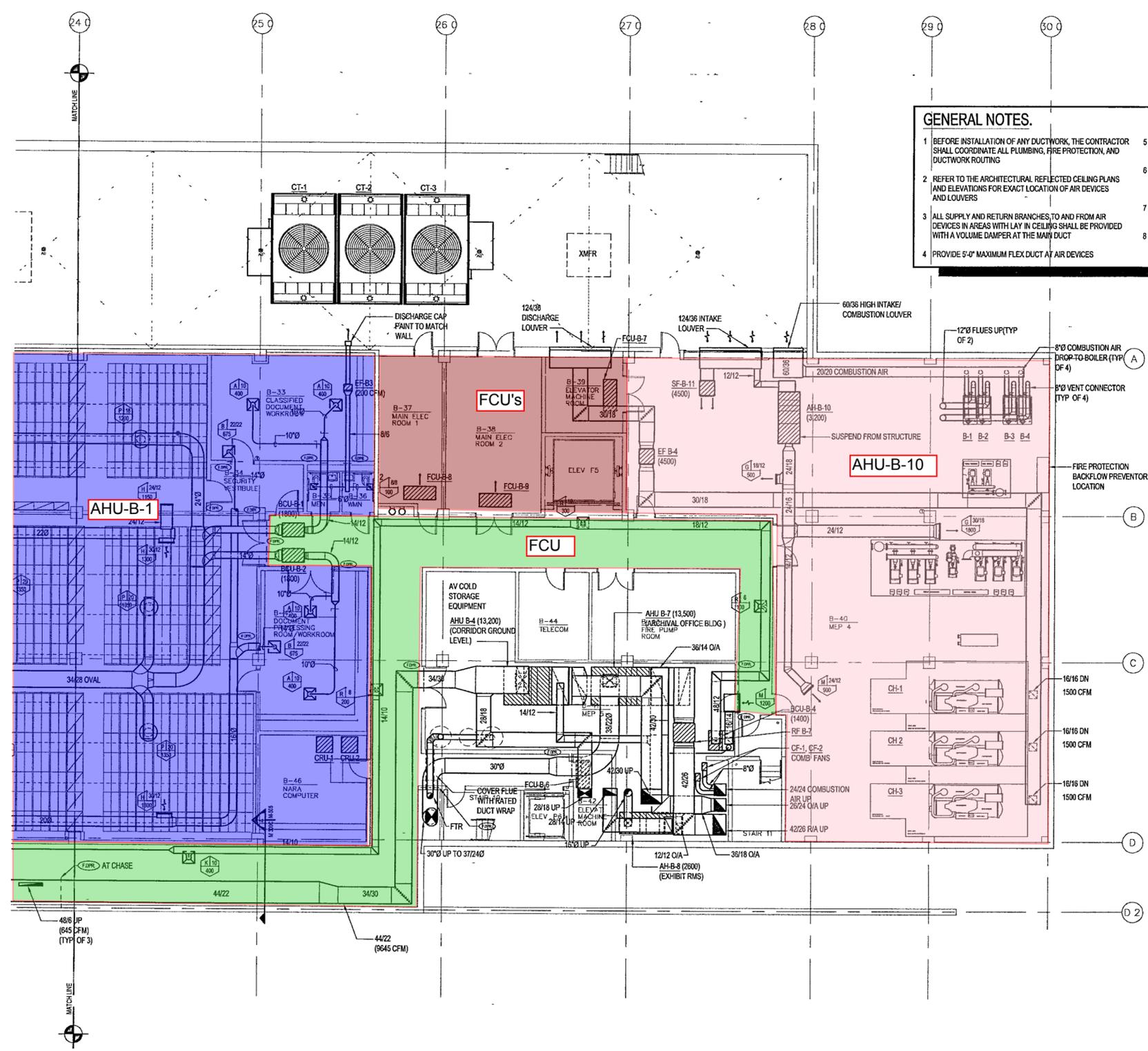
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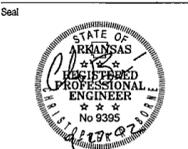
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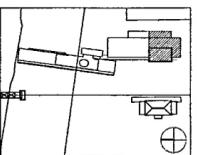
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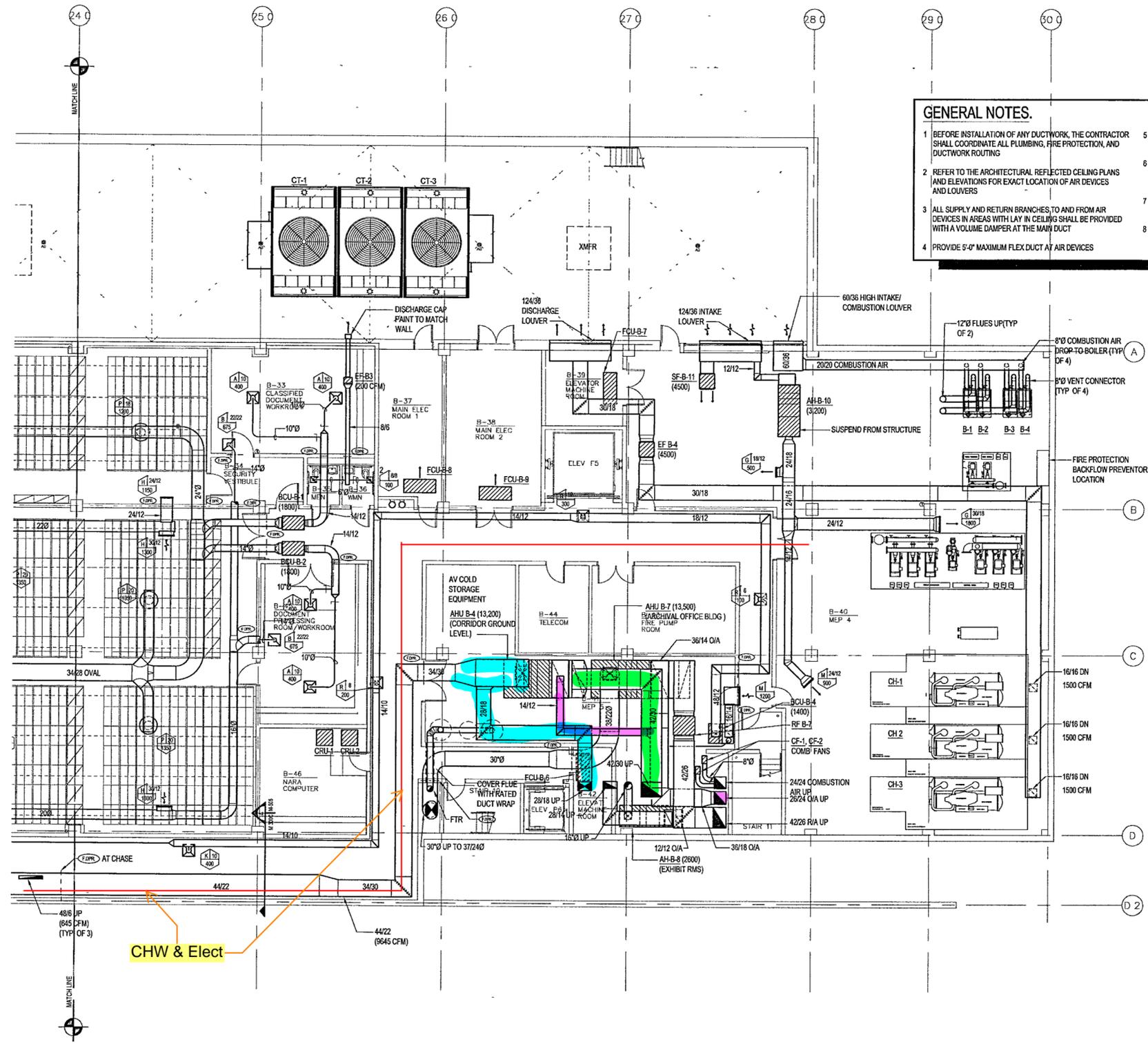
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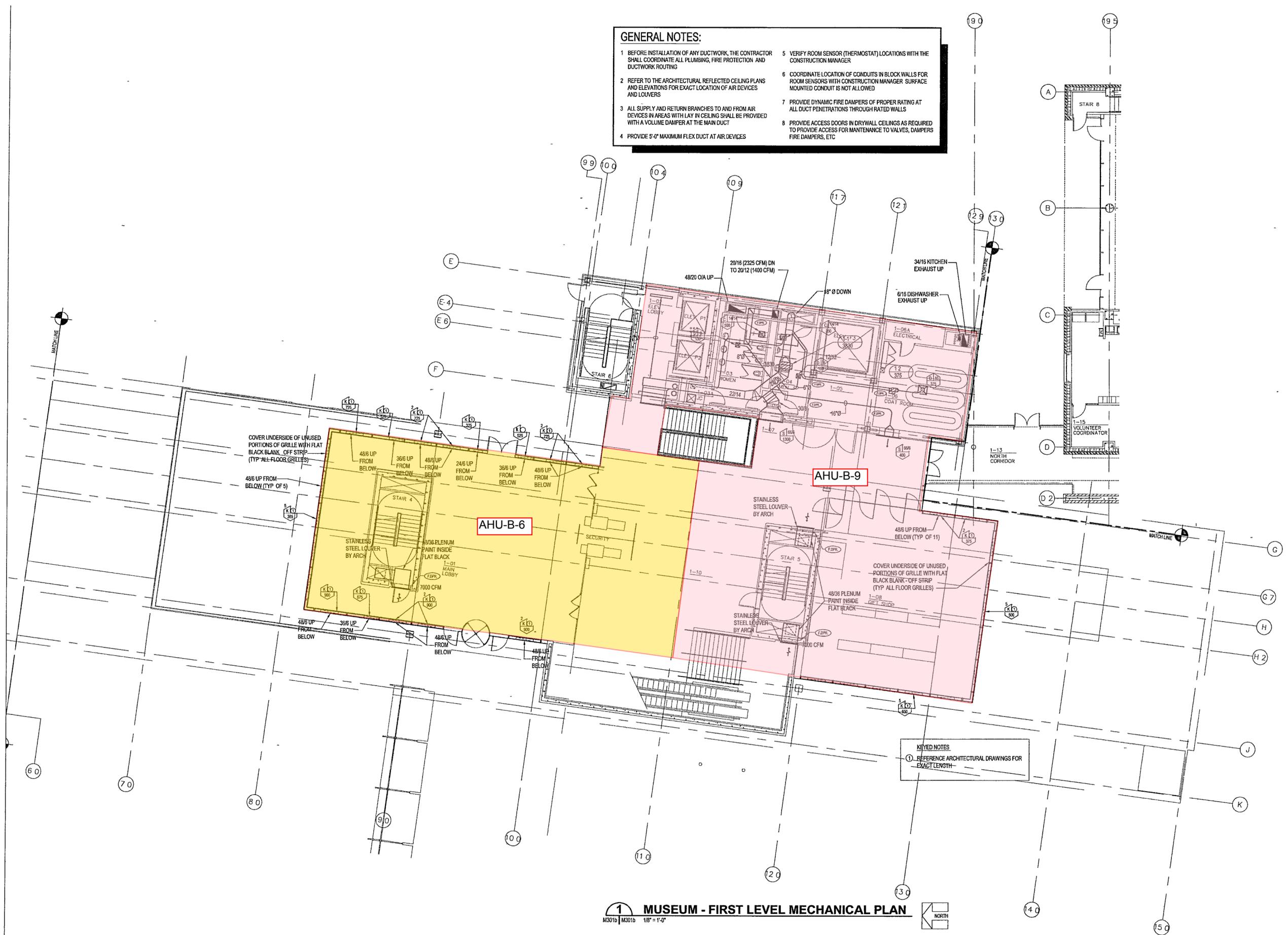


1 ARCHIVES - BASEMENT LEVEL MECHANICAL PARTIAL PLAN
M300d M300d 1/8" = 1'-0"



GENERAL NOTES:

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1 MUSEUM - FIRST LEVEL MECHANICAL PLAN
M301b | M301a 1/8" = 1'-0"

KEYED NOTES
① REFERENCE ARCHITECTURAL DRAWINGS FOR EXACT LENGTH

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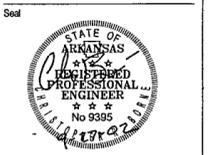
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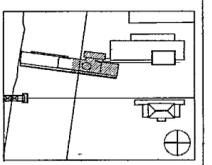
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100% Construction Documents	09/27/02
90% Progress Printing	08/20/02
100% Design Development	03/01/02



Job No. POLSHEK & PARTNERS ARCH. 9908
CROMWELL AE 99-114

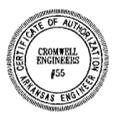
Scale: 1/8" = 1'-0"

Date: SEPTEMBER 27, 2002

**MUSEUM
GROUND LEVEL
MECHANICAL
PARTIAL PLAN**

Sheet No.

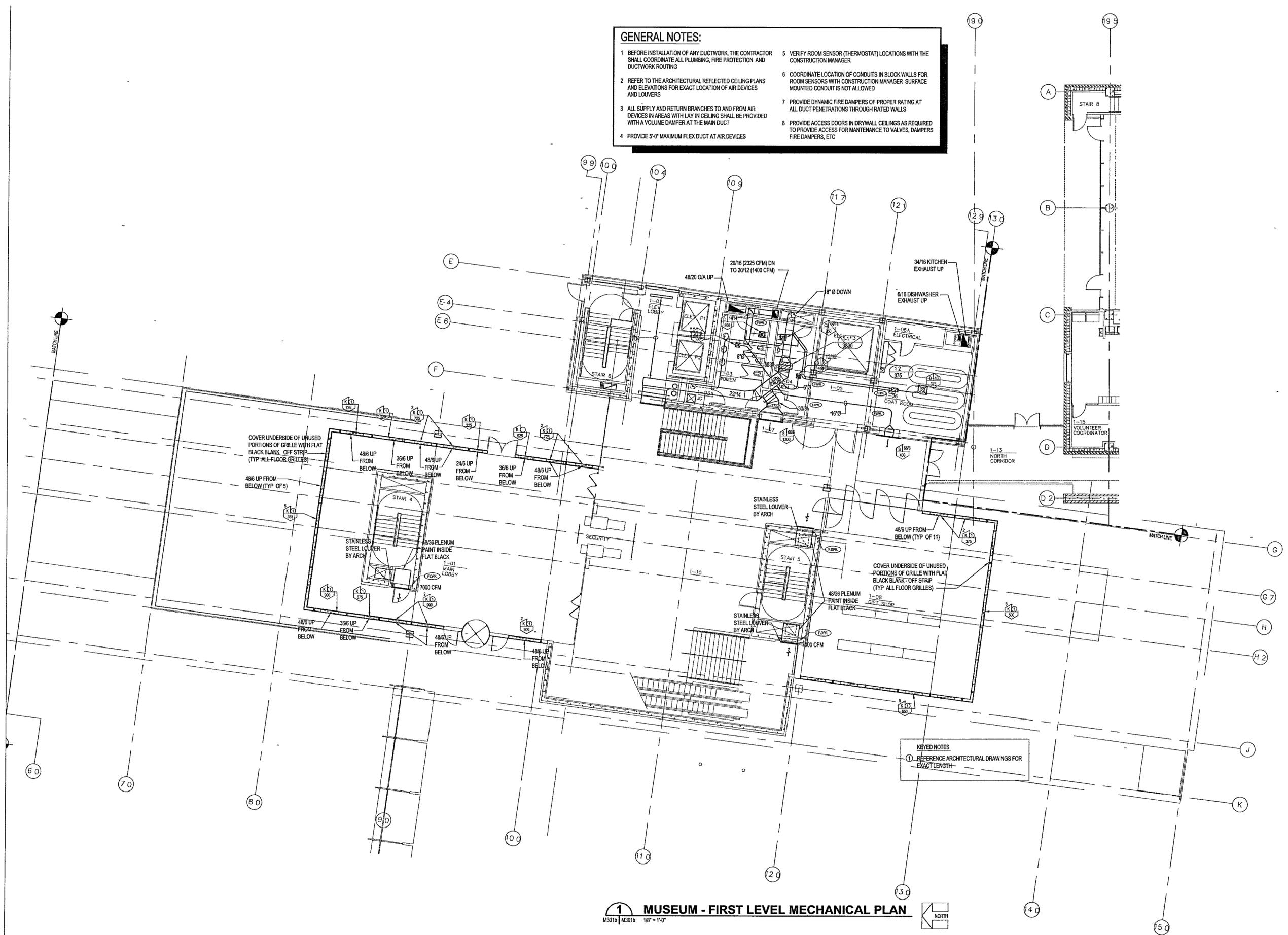
M301b



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1 MUSEUM - FIRST LEVEL MECHANICAL PLAN
 M301b | M301d 1/8" = 1'-0"

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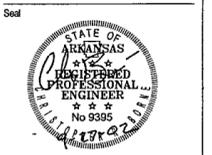
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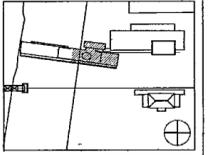
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100% Construction Documents	09/27/02
90% Progress Printing	09/20/02
100% Design Development	03/01/02
Issue	Date



Job No. POLSHEK & PARTNERS ARCH 9908
 CROMWELL AE 99-114

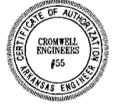
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T159 MUSEUM
 GROUND LEVEL
 MECHANICAL
 PARTIAL PLAN

Sheet No.

M301b



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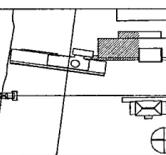
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100% Construction Documents	09/27/02
90% Progress Printing	08/30/02
100% Design Development	03/01/02



Job No: POLSHEK & PARTNERS ARCH. 0908
CROMWELL AE 99-114

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

Date: SEPTEMBER 27, 2002

Title: ARCHIVES
GROUND LEVEL
MECHANICAL
PARTIAL PLAN

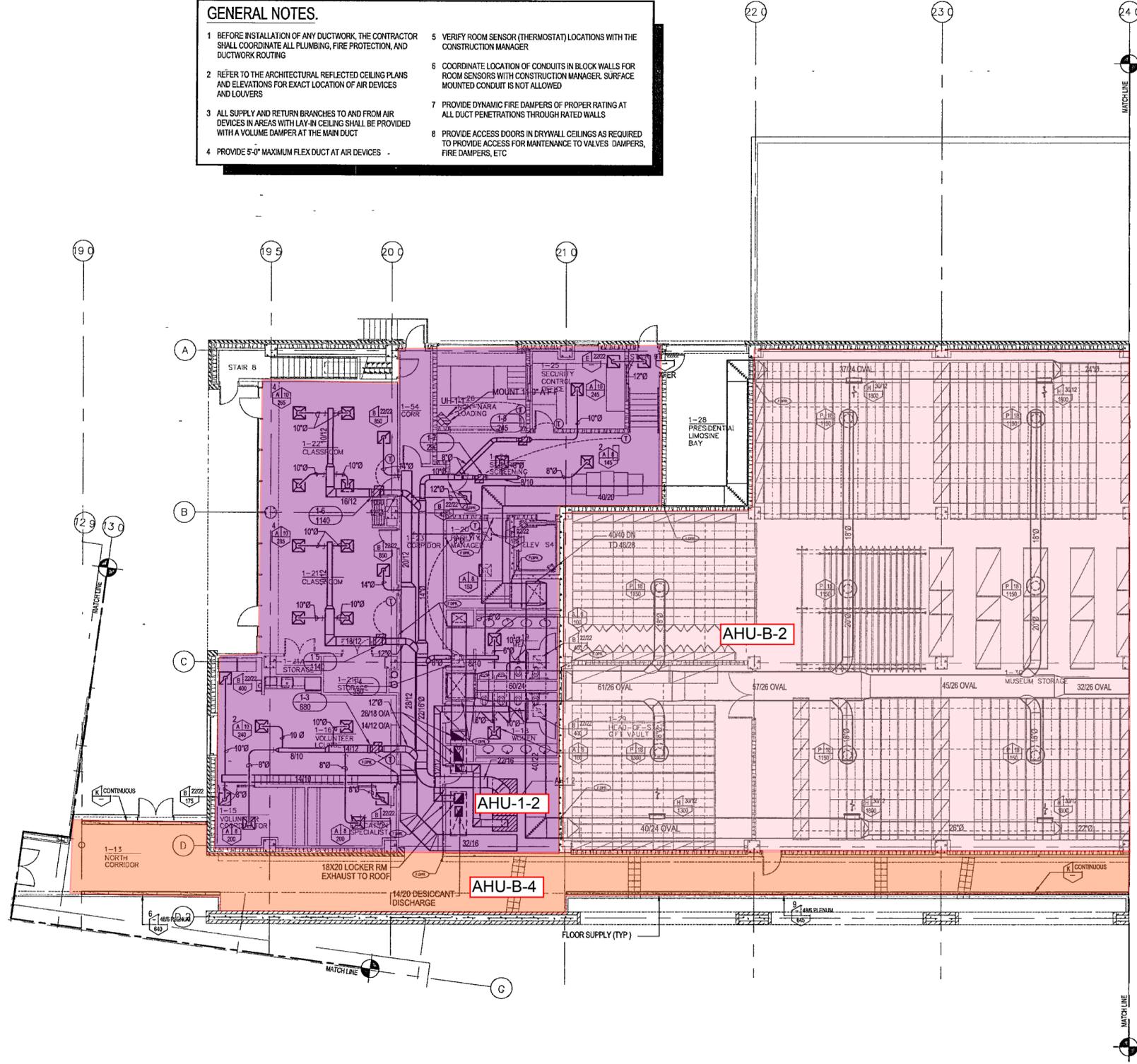
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1 ARCHIVES - FIRST LEVEL MECHANICAL PLAN
M301c | M301c 1/8" = 1'-0" NORTH

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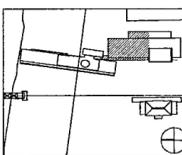
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Issue	Date
100% Construction Documents	09/27/02
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100% Design Development	03/01/02



Job No: POLSHEK & PARTNERS ARCH. 0908
CROMWELL AE 99-114
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Date: SEPTEMBER 27, 2002

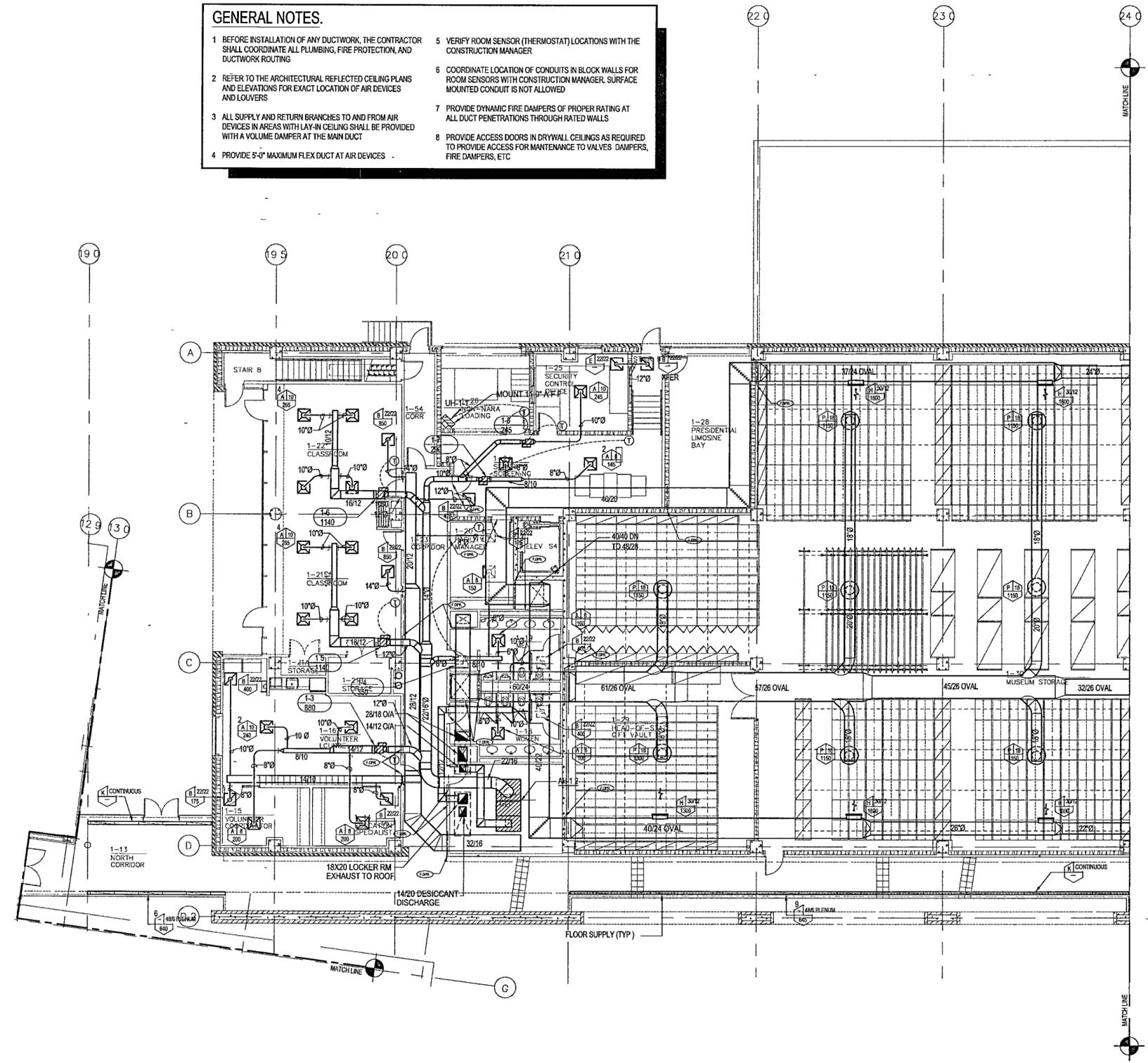
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GROUND LEVEL
MECHANICAL
PARTIAL PLAN**

Sheet No: **M301c**



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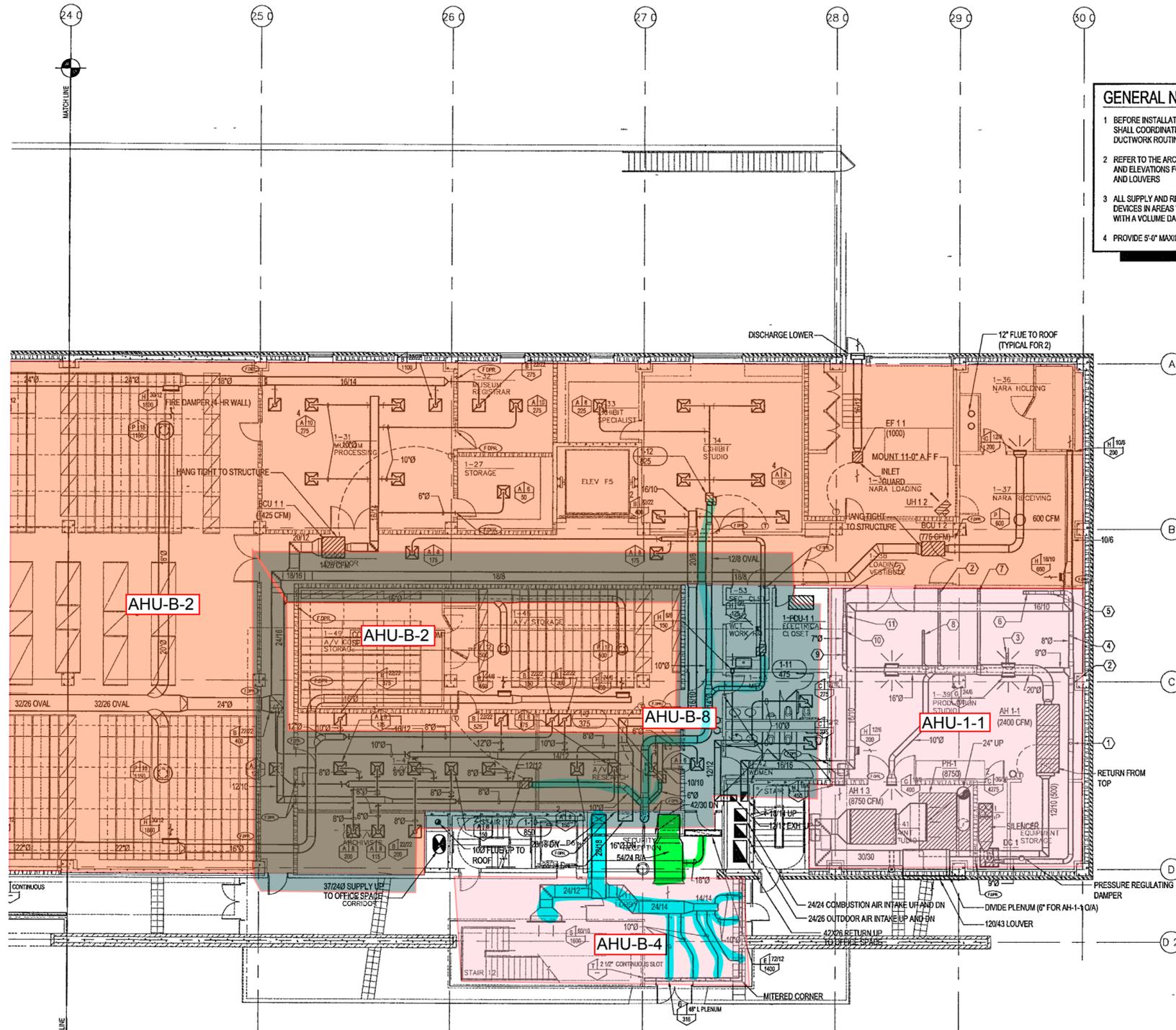


1 ARCHIVES - FIRST LEVEL MECHANICAL PLAN
M301c | M301c 1/8" = 1'-0" NORTH



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DUST COLLECTION POINTS

1) 5" TYPE NE DROP TO VERTICAL PANEL SAW	7) 5" TYPE NE DROP TO RADIAL ARM SAW
2) 4" DROP TO FLOOR SWEEP	8) 4" TYPE NE DROP TO COMBINATION JOINTER/SANDER
3) 4" TYPE NE DROP TO TABLE SAW	9) 4" TYPE NE DROP TO ROUTER TABLE
4) 4" TYPE NE DROP TO COMPOUND MITER SAW	10) 6" TYPE NE DROP TO OSCILLATING SANDER
5) 4" TYPE NE DROP TO METAL CUTTING BAND SAW	11) 4" TYPE NE DROP TO COMBINATION DISK SANDER
6) 5" TYPE NE DROP TO BAND SAW	

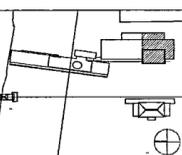
NOTE: ALL MACHINE CONNECTIONS TO HAVE MANUAL BLAST GATES FOR SHUT-OFF

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1 ARCHIVES - FIRST LEVEL MECHANICAL PLAN
M301d | M301d | 1/8" = 1'-0"



100% Construction Documents	09/27/02
90% Progress Printing	09/30/02
100% Design Development	03/18/02
Issue	Date



Job No: POLSHEK & PARTNERS ARCH 9906
CROMWELL AE 99-114
Scale: 1/8" = 1'-0"
Date: SEPTEMBER 27, 2002

Title: **ARCHIVES GROUND LEVEL MECHANICAL PARTIAL PLAN**

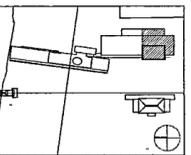
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100% Design Development	03/18/02
Issue	Date



Job No: POLSHEK & PARTNERS ARCH 9906
CROMWELL AE 99-114

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

Date: SEPTEMBER 27, 2002

Title: ARCHIVES
GROUND LEVEL
MECHANICAL
PARTIAL PLAN

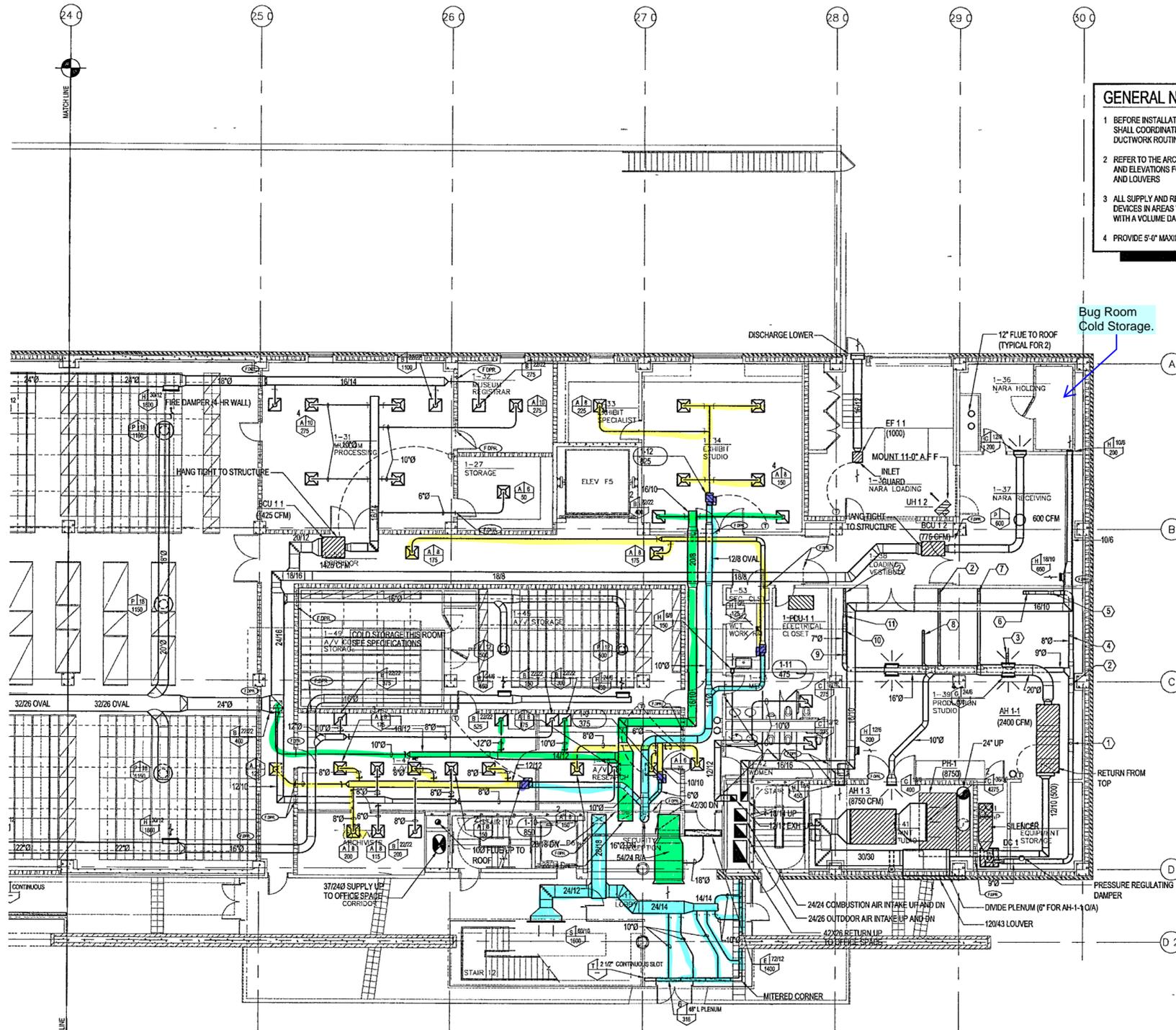
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M301d

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NOTE: ALL MACHINE CONNECTIONS TO HAVE MANUAL BLAST GATES FOR SHUT-OFF

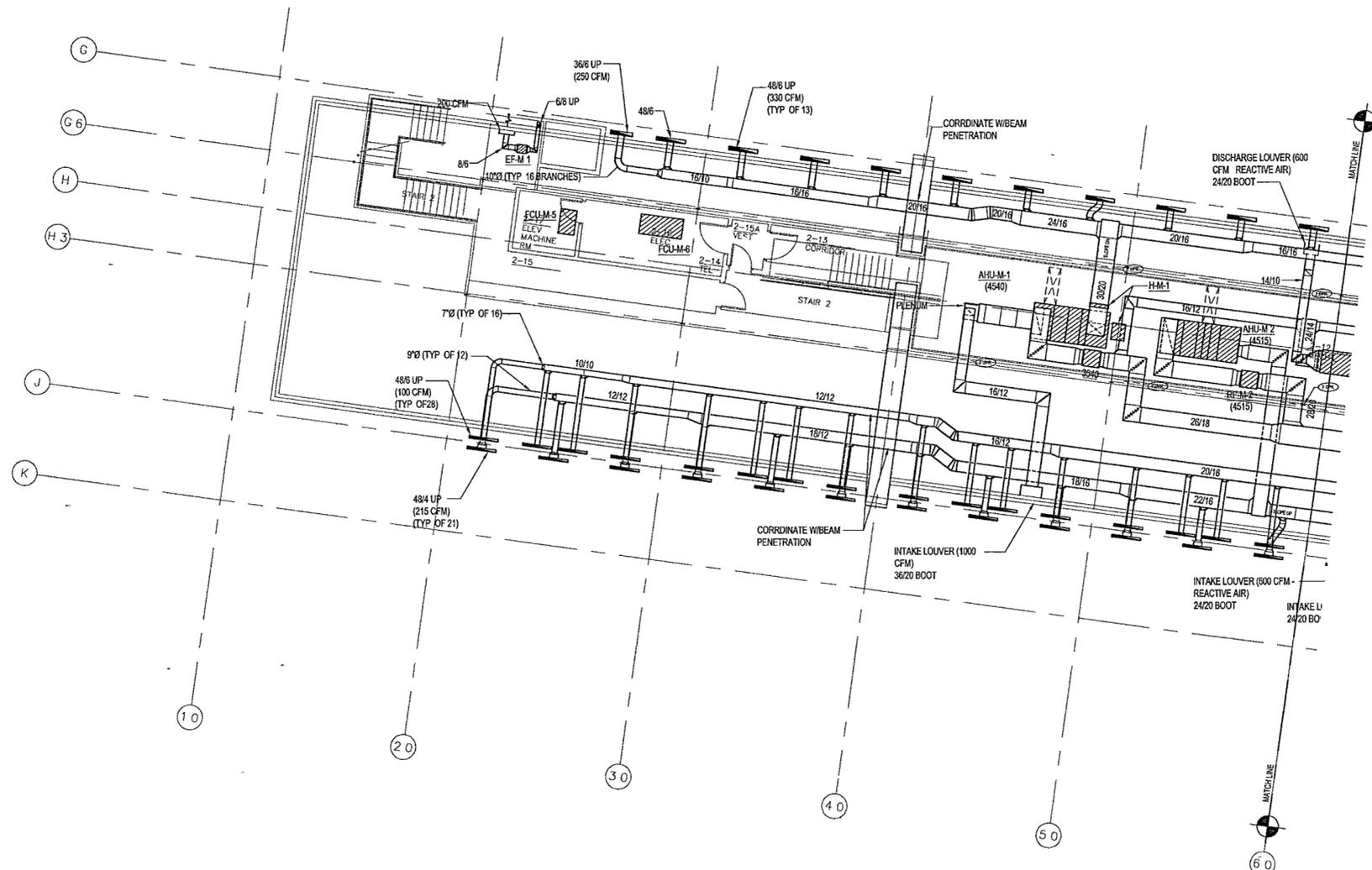
1 ARCHIVES - FIRST LEVEL MECHANICAL PLAN

M301d | M301d | 1/8" = 1'-0"



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1 MUSEUM - SECOND LEVEL MECHANICAL PLAN
 M302a | M302a 1/8" = 1'-0"

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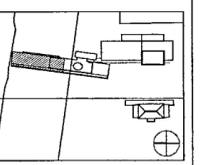
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Issue	Date
100% Construction Documents	09/27/02
90% Progress Printing	09/20/02
100% Design Development	03/01/02



Job No POLSHEK & PARTNERS ARCH. 9908
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 Date SEPTEMBER 27, 2002

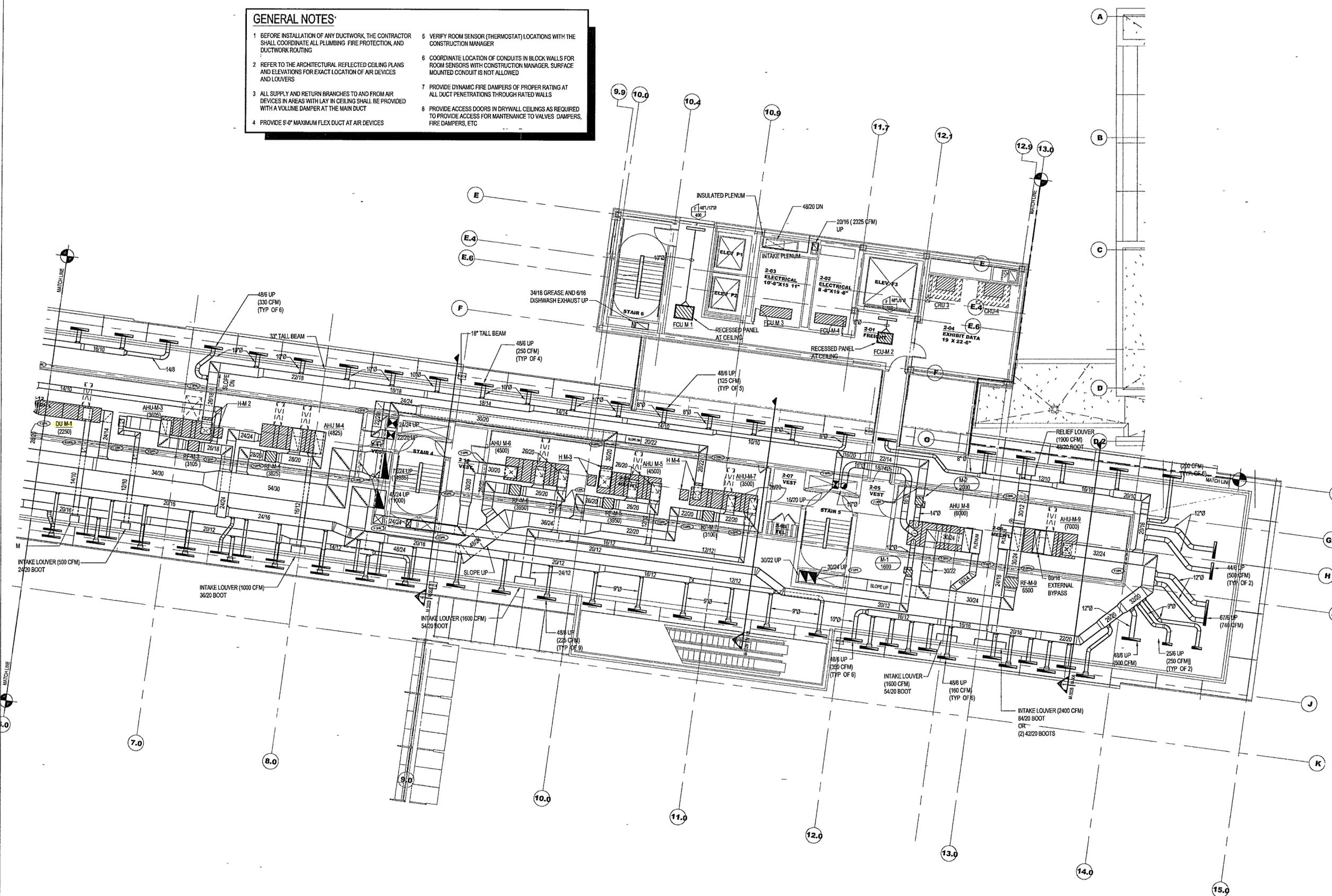
Title
**MUSEUM
 SECOND LEVEL
 MECHANICAL
 PARTIAL PLAN**

Sheet No
M302a



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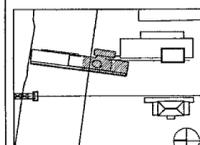
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100% Design Development	03/14/02
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Job No: POLSKHEK & PARTNERS ARCH 9908
CROMWELL AE 99-114

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

Date: SEPTEMBER 27, 2002

Title: MUSEUM
SECOND LEVEL
MECHANICAL
PARTIAL PLAN

Sheet No.

M302b

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1 MUSEUM - SECOND LEVEL MECHANICAL PLAN

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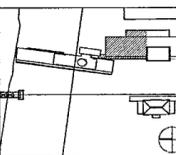
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Job No: POLSHEK & PARTNERS ARCH. 9908
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Date: SEPTEMBER 27, 2002

Title: ARCHIVES
ROOF/SECOND LEVEL
MECHANICAL
PARTIAL PLAN

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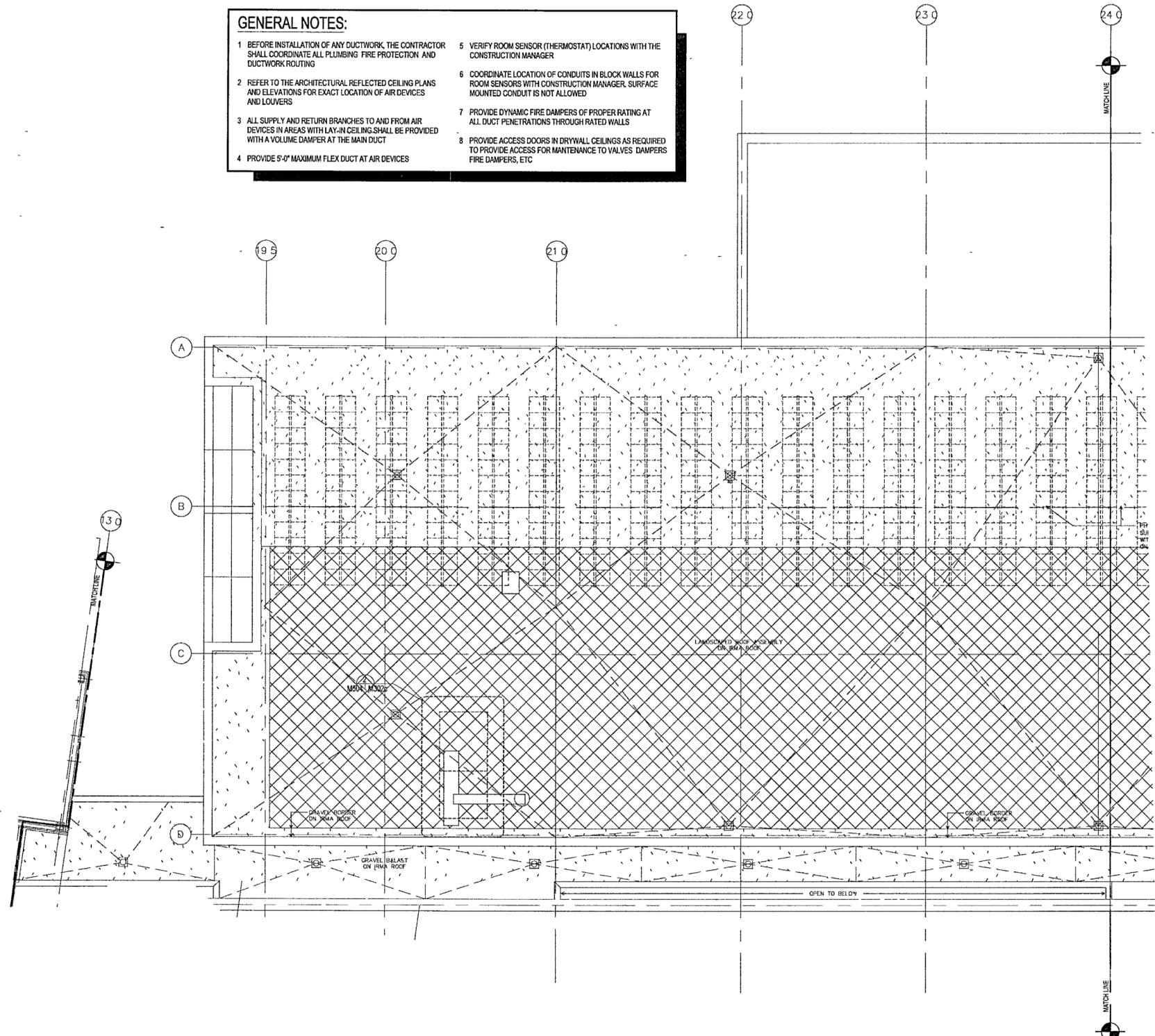
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1 ARCHIVES - ROOF/SECOND LEVEL MECHANICAL PLAN
M302c | M302c 1/8" = 1'-0" NORTH

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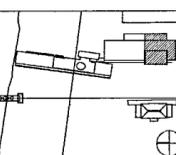
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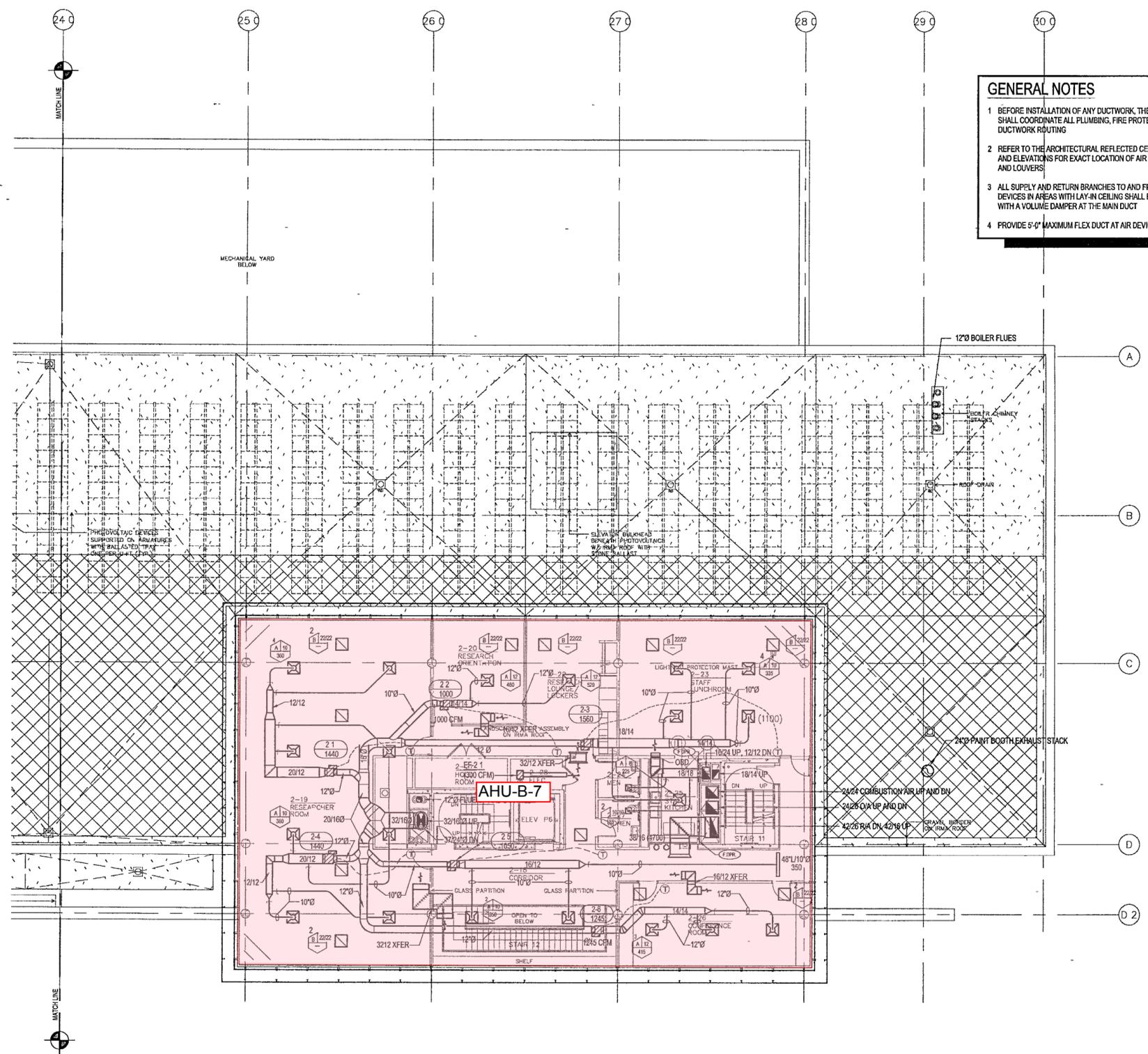
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MECHANICAL
PARTIAL PLAN

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1 ARCHIVES - ROOF/SECOND LEVEL MECHANICAL PLAN
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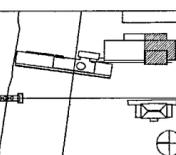
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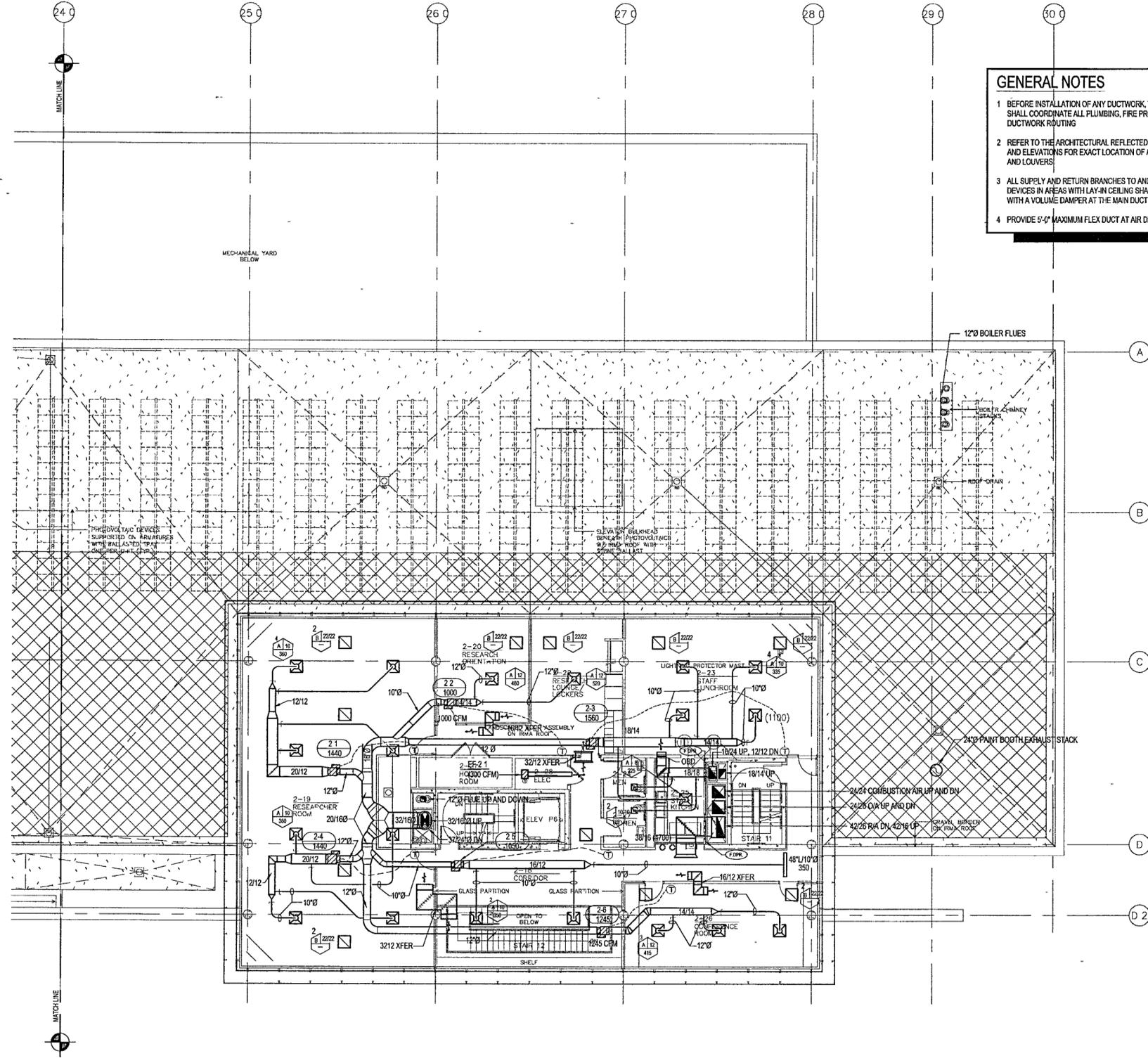
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1 ARCHIVES - ROOF/SECOND LEVEL MECHANICAL PLAN
M302d | M302d 1/8" = 1'-0" NORTH

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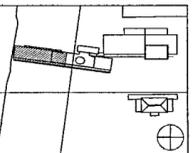
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Date SEPTEMBER 27 2002

Title MUSEUM
LOWER LEVEL
MECHANICAL
PARTIAL PLAN

Sheet No

M303a

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KEYED NOTES
 ① 48\"/>

1 MUSEUM - LOWER LEVEL MECHANICAL PLAN
 M303a | M303a 1/8" = 1'-0"



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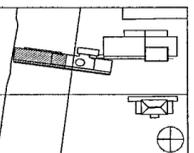
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Date SEPTEMBER 27 2002

Title **MUSEUM
LOWER LEVEL
MECHANICAL
PARTIAL PLAN**

Sheet No

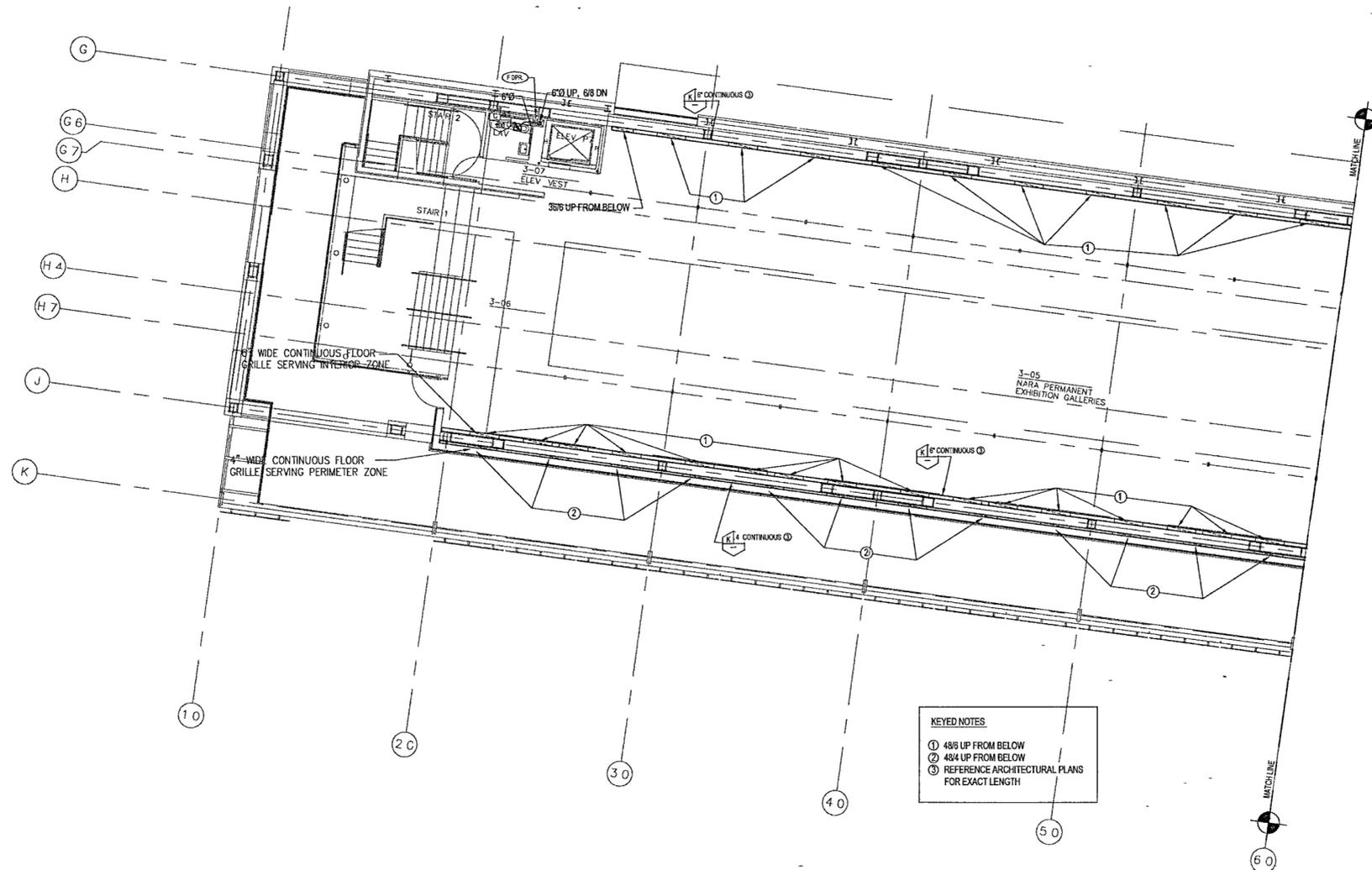
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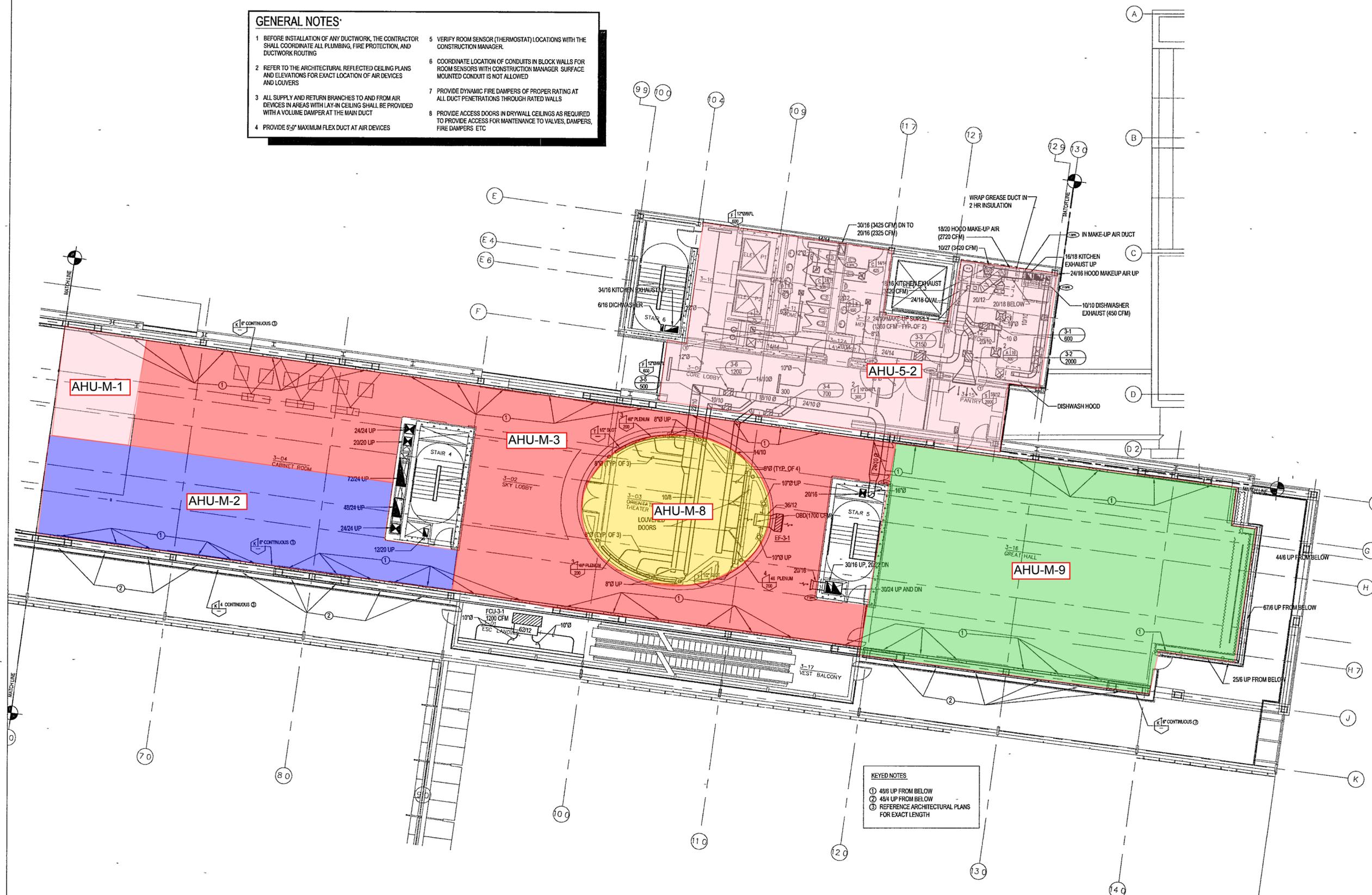
KEYED NOTES
 ① 48" UP FROM BELOW
 ② 48" UP FROM BELOW
 ③ REFERENCE ARCHITECTURAL PLANS FOR EXACT LENGTH

1 MUSEUM - LOWER LEVEL MECHANICAL PLAN
 M303a | M303a 1/8" = 1'-0"



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KEYED NOTES:
 ① 4816 UP FROM BELOW
 ② 4514 UP FROM BELOW
 ③ REFERENCE ARCHITECTURAL PLANS FOR EXACT LENGTH

1 MUSEUM - LOWER LEVEL MECHANICAL PARTIAL PLAN
 M303b | M303b 1/8" = 1'-0" NORTH

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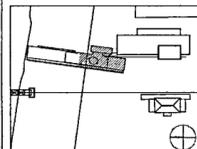
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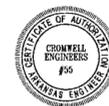
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90% Progress Printing	08/30/02
100% Design Development	03/01/02



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Title: **MUSEUM
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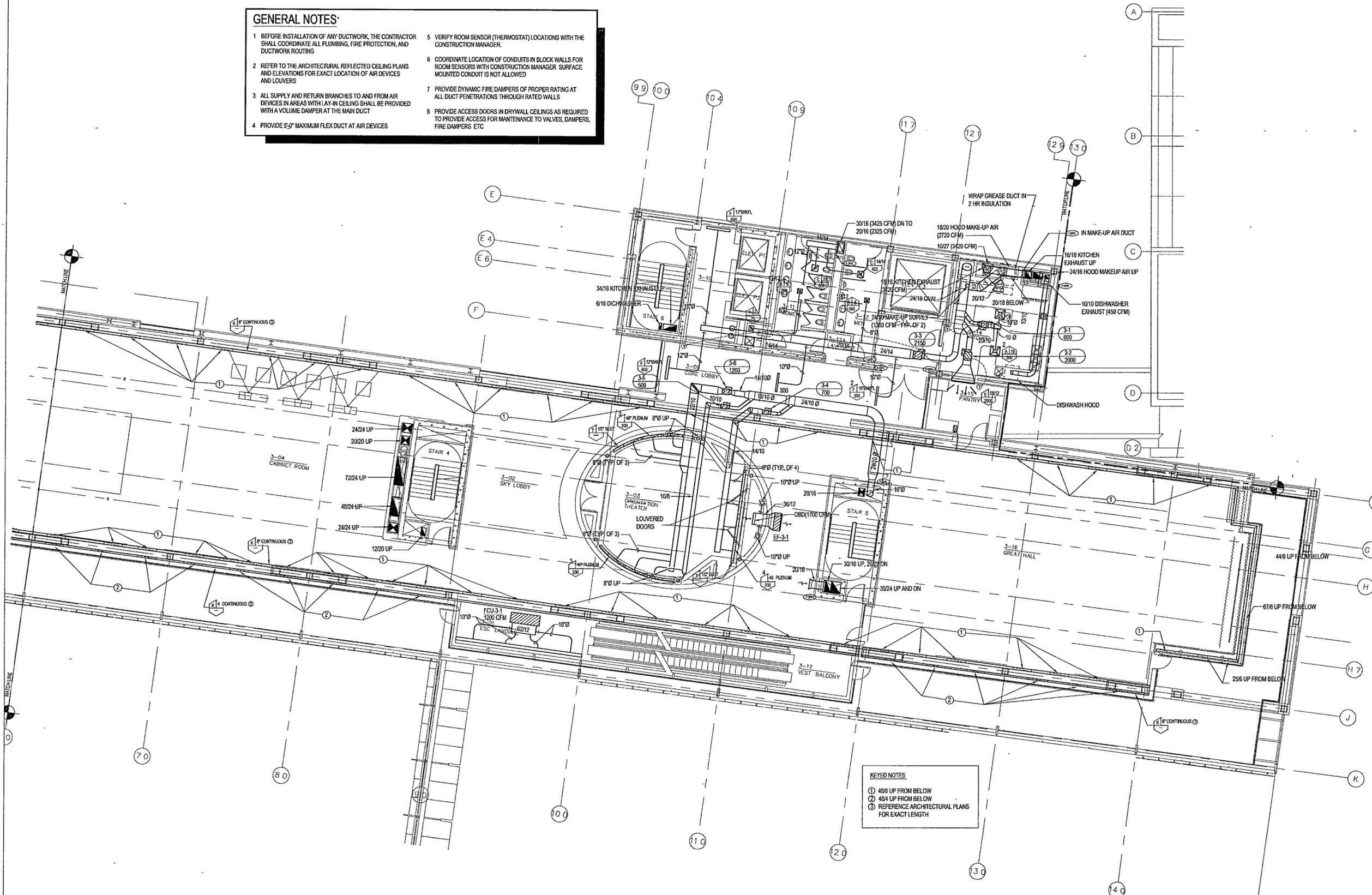
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1 MUSEUM - LOWER LEVEL MECHANICAL PARTIAL PLAN
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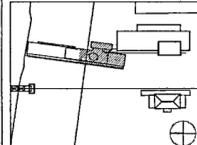
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Job No: POLSHEK & PARTNERS ARCH. 9908
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Title: **MUSEUM
 LOWER LEVEL
 MECHANICAL
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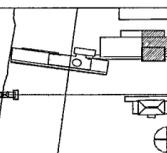
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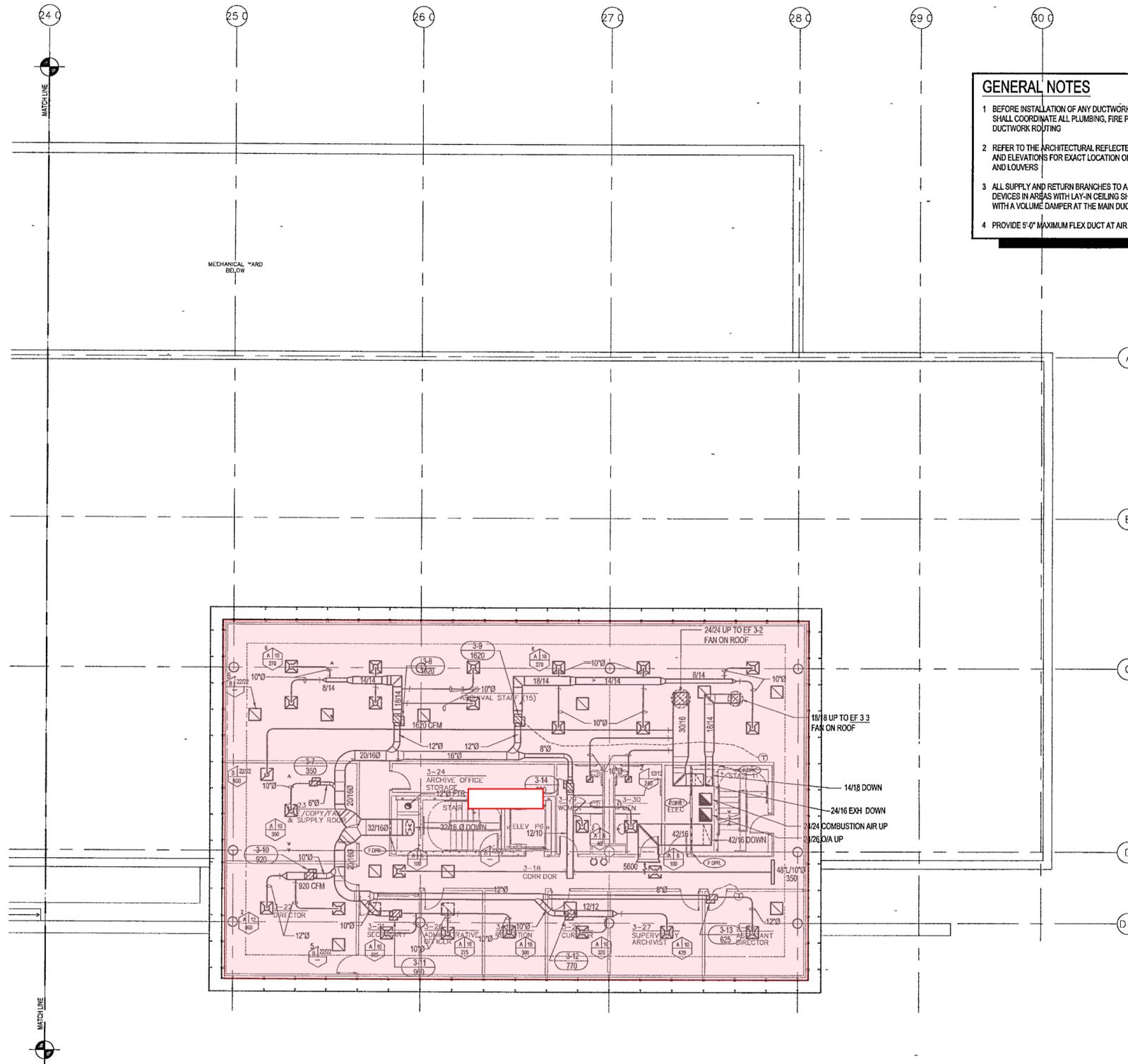
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Title: **ARCHIVES
THIRD LEVEL
MECHANICAL
PARTIAL PLAN**

Sheet No. **M303d**

GENERAL NOTES

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- REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS AND ELEVATIONS FOR EXACT LOCATION OF AIR DEVICES AND LOUVERS
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- PROVIDE 5'-0" MAXIMUM FLEX DUCT AT AIR DEVICES
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- PROVIDE ACCESS DOORS IN DRYWALL CEILINGS AS REQUIRED TO PROVIDE ACCESS FOR MAINTENANCE TO VALVES, DAMPERS, FIRE DAMPERS, ETC



1 ARCHIVES - THIRD LEVEL MECHANICAL PLAN
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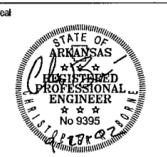
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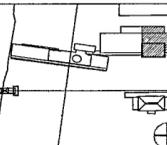
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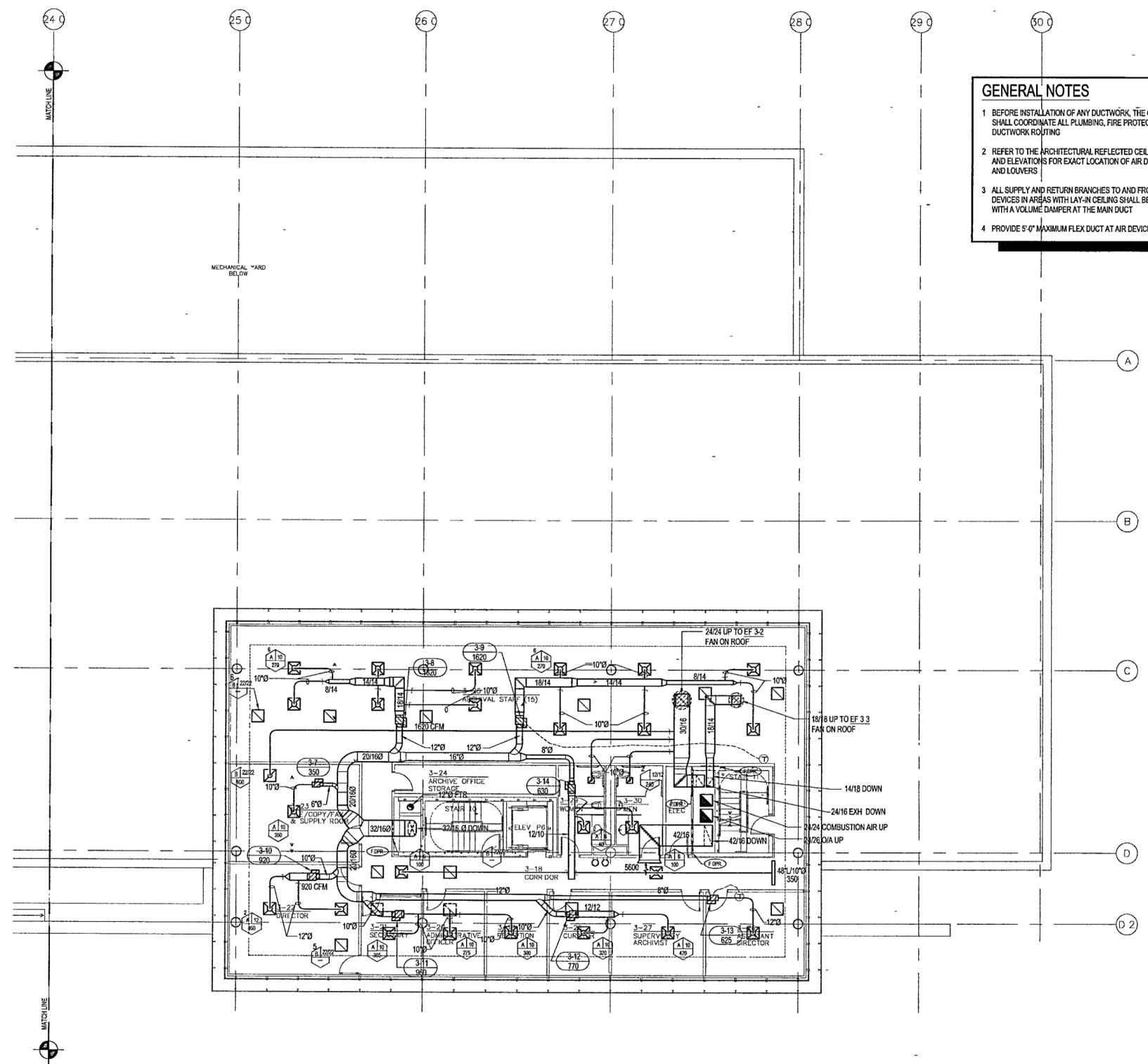
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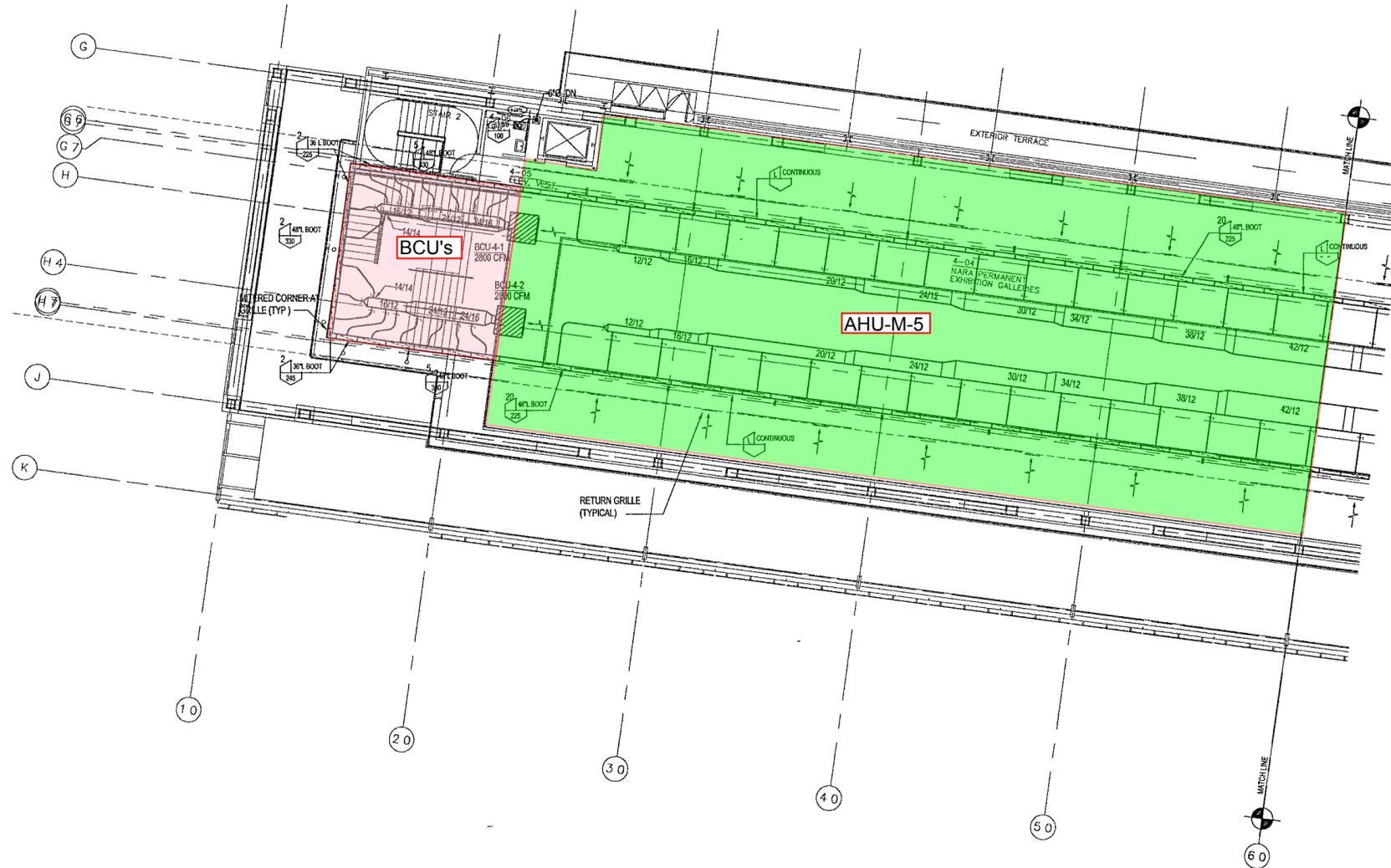
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1 MUSEUM - UPPER LEVEL MECHANICAL PLAN
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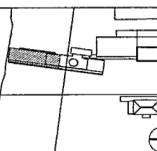
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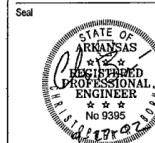
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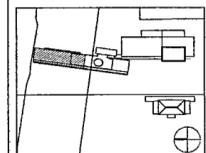
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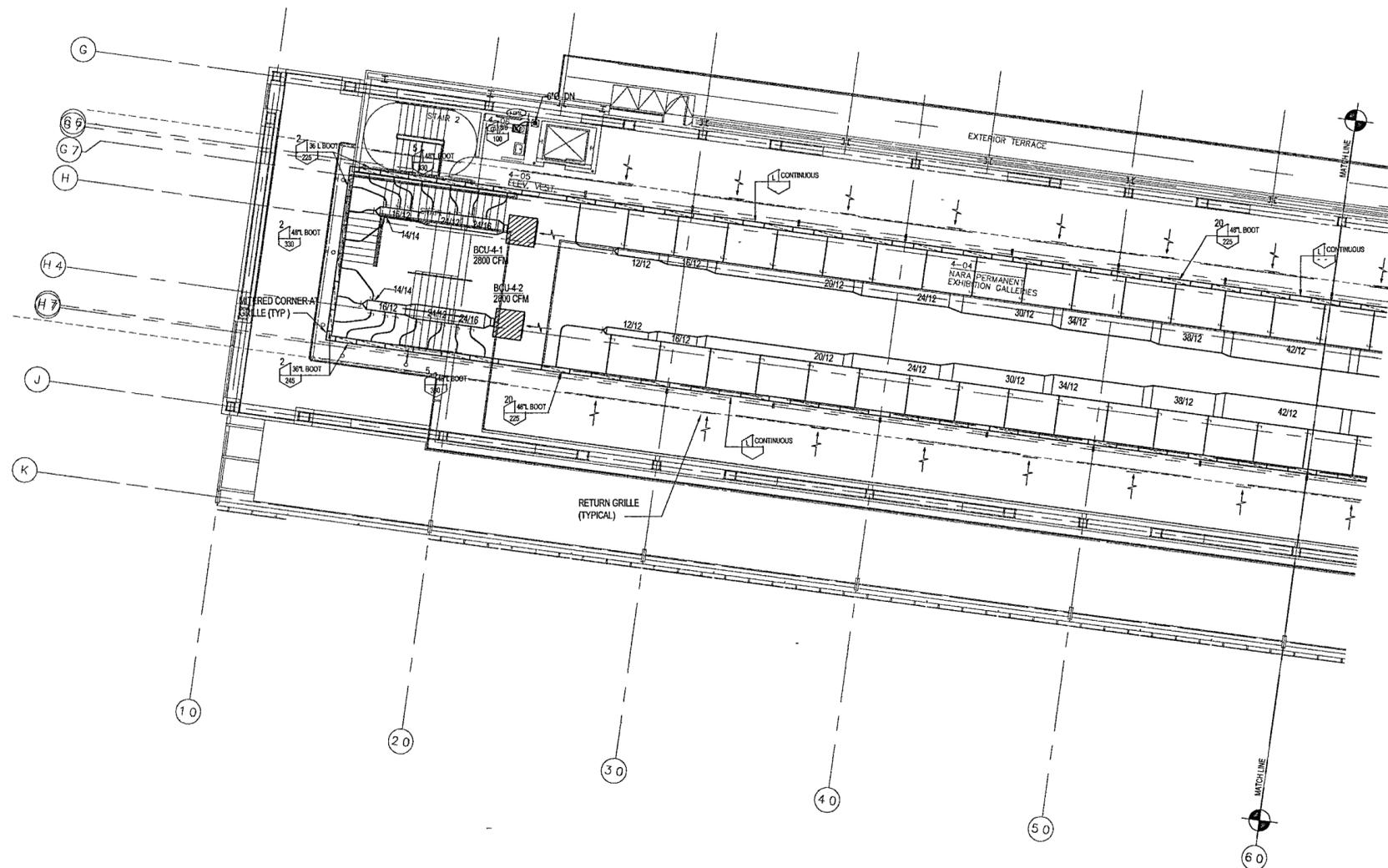
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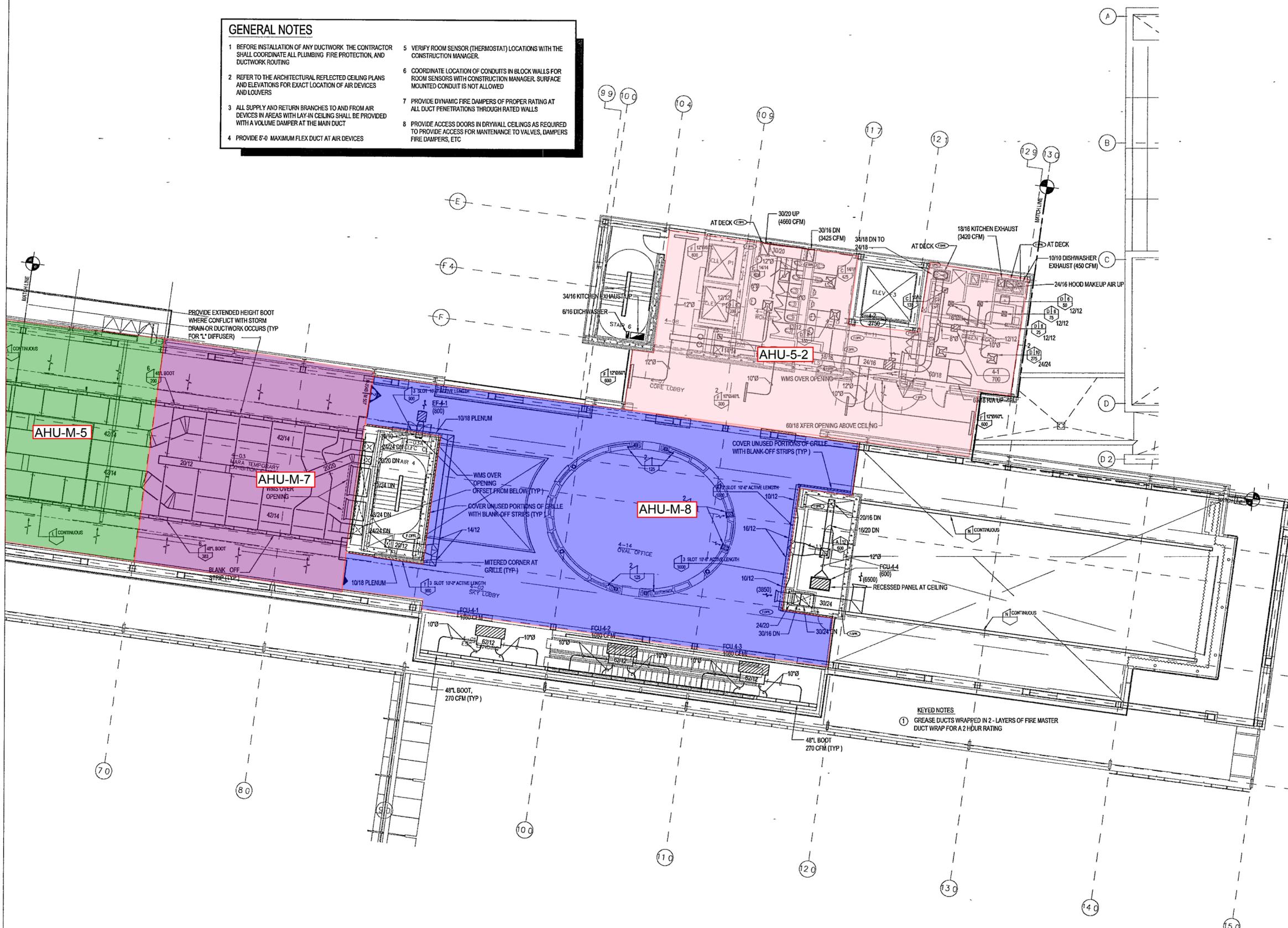


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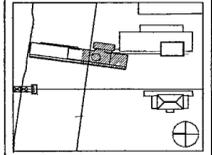
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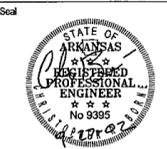
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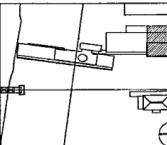
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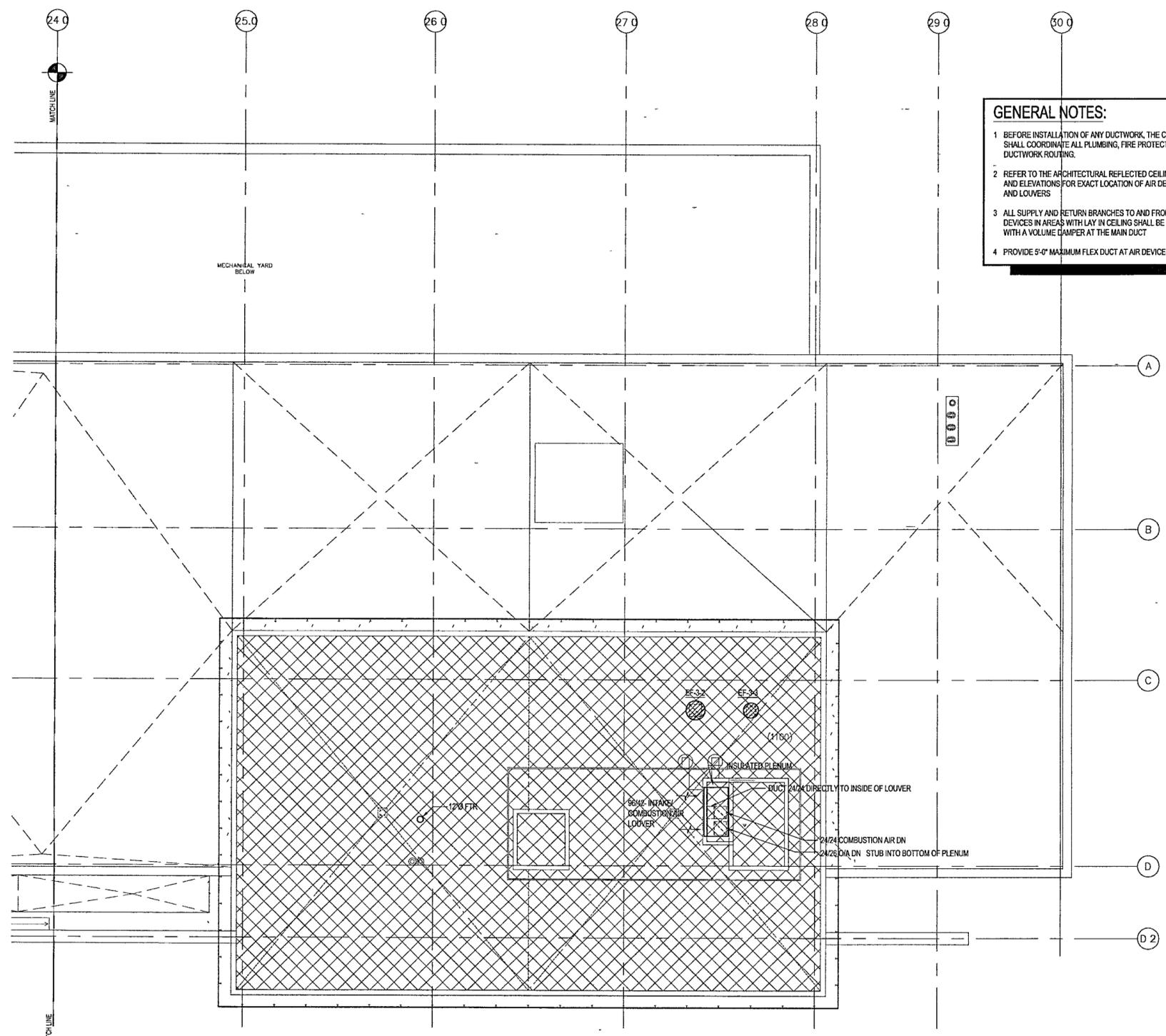
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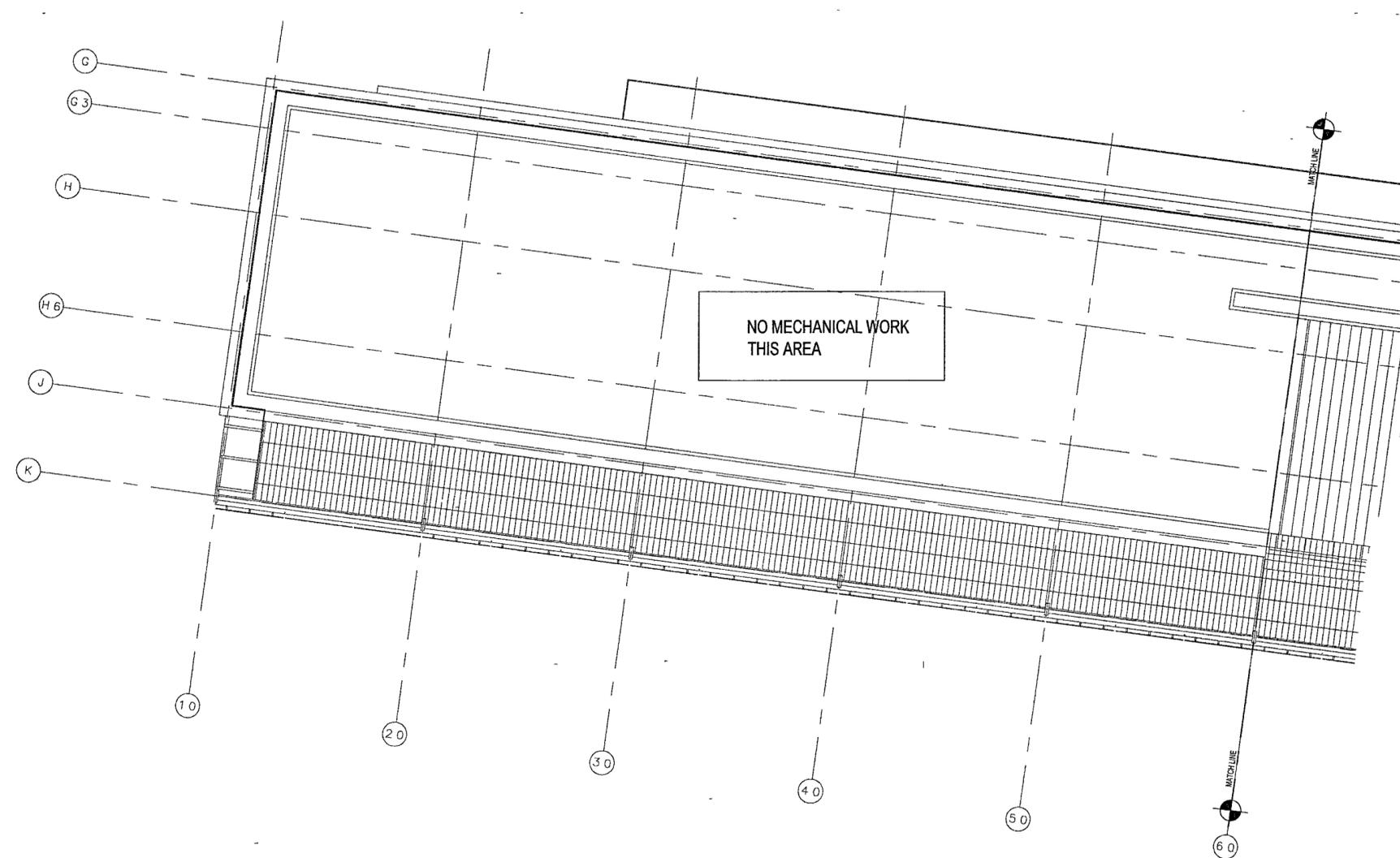
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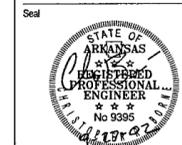
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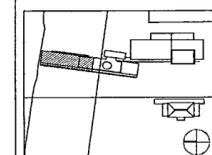
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- 8 PROVIDE ACCESS DOORS IN DRYWALL CEILINGS AS REQUIRED TO PROVIDE ACCESS FOR MAINTENANCE TO VALVES, DAMPERS FIRE DAMPERS, ETC



1 MUSEUM ROOF/EXECUTIVE LEVEL - MECHANICAL PLAN
M305a | M305a 1/8" = 1'-0"



Issue	Date
100% Construction Documents	09/27/02
90% Progress Printing	09/30/02
100% Design Development	03/01/02



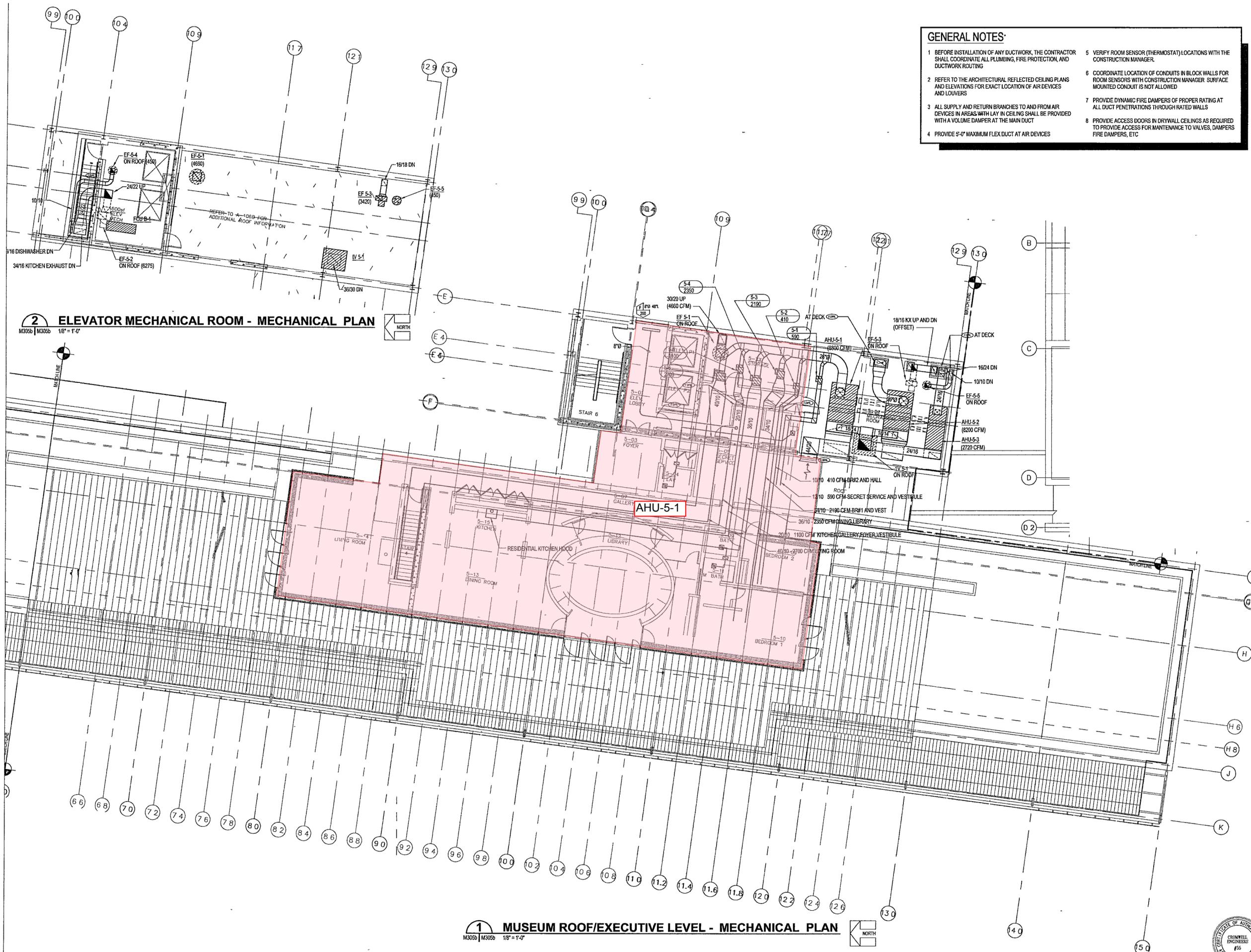
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CROMWELL AE 99-114
Scale 1/8" = 1'-0"
Date SEPTEMBER 27 2002

Title **MUSEUM ROOF/
EXECUTIVE LEVEL
MECHANICAL
PARTIAL PLAN**

Sheet No. **M305a**



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- GENERAL NOTES:**
- BEFORE INSTALLATION OF ANY DUCTWORK, THE CONTRACTOR SHALL COORDINATE ALL PLUMBING, FIRE PROTECTION, AND DUCTWORK ROUTING
 - REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS AND ELEVATIONS FOR EXACT LOCATION OF AIR DEVICES AND LOUVERS
 - ALL SUPPLY AND RETURN BRANCHES TO AND FROM AIR DEVICES IN AREAS WITH LAY IN CEILING SHALL BE PROVIDED WITH A VOLUME DAMPER AT THE MAIN DUCT
 - PROVIDE 5'-0" MAXIMUM FLEX DUCT AT AIR DEVICES
 - VERIFY ROOM SENSOR (THERMOSTAT) LOCATIONS WITH THE CONSTRUCTION MANAGER.
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2 ELEVATOR MECHANICAL ROOM - MECHANICAL PLAN
 M305b | M305b 1/8" = 1'-0"

1 MUSEUM ROOF/EXECUTIVE LEVEL - MECHANICAL PLAN
 M305b | M305b 1/8" = 1'-0"

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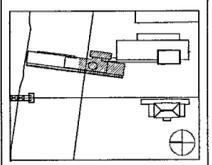
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100% Design Development	03/16/02
Issue	Date

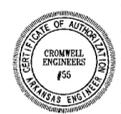


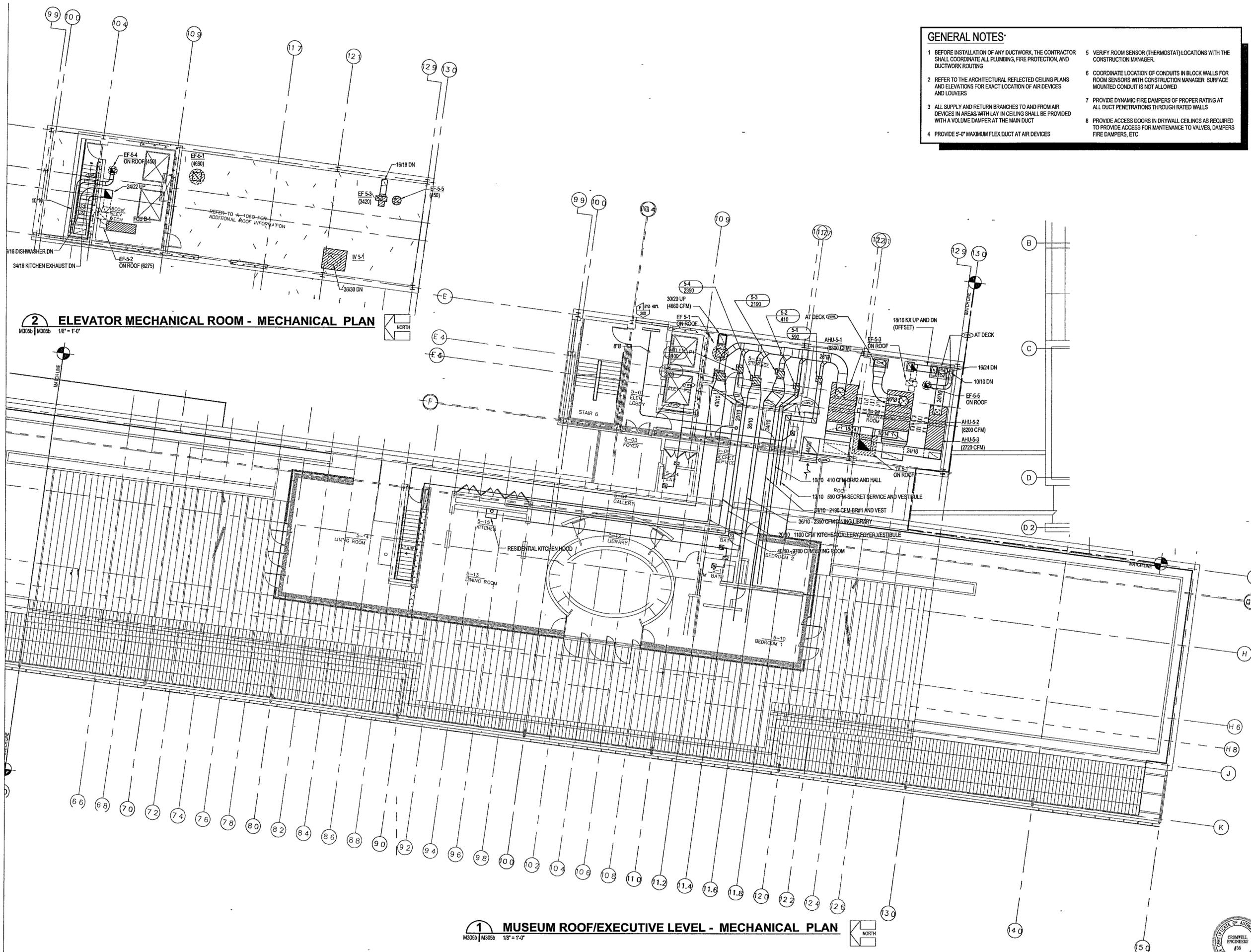
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 CROMWELL AE 99-114
 Scale: 1/8" = 1'-0"
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Title: MUSEUM ROOF/
 EXECUTIVE LEVEL
 MECHANICAL
 PARTIAL PLAN

Sheet No: **M305b**

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2 ELEVATOR MECHANICAL ROOM - MECHANICAL PLAN
 M305b | M305b 1/8" = 1'-0"

1 MUSEUM ROOF/EXECUTIVE LEVEL - MECHANICAL PLAN
 M305b | M305b 1/8" = 1'-0"

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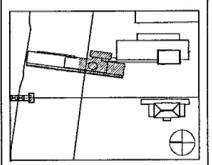
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Title: **MUSEUM ROOF/
 EXECUTIVE LEVEL
 MECHANICAL
 PARTIAL PLAN**

Sheet No: **M305b**

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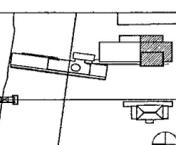
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Issue	Date



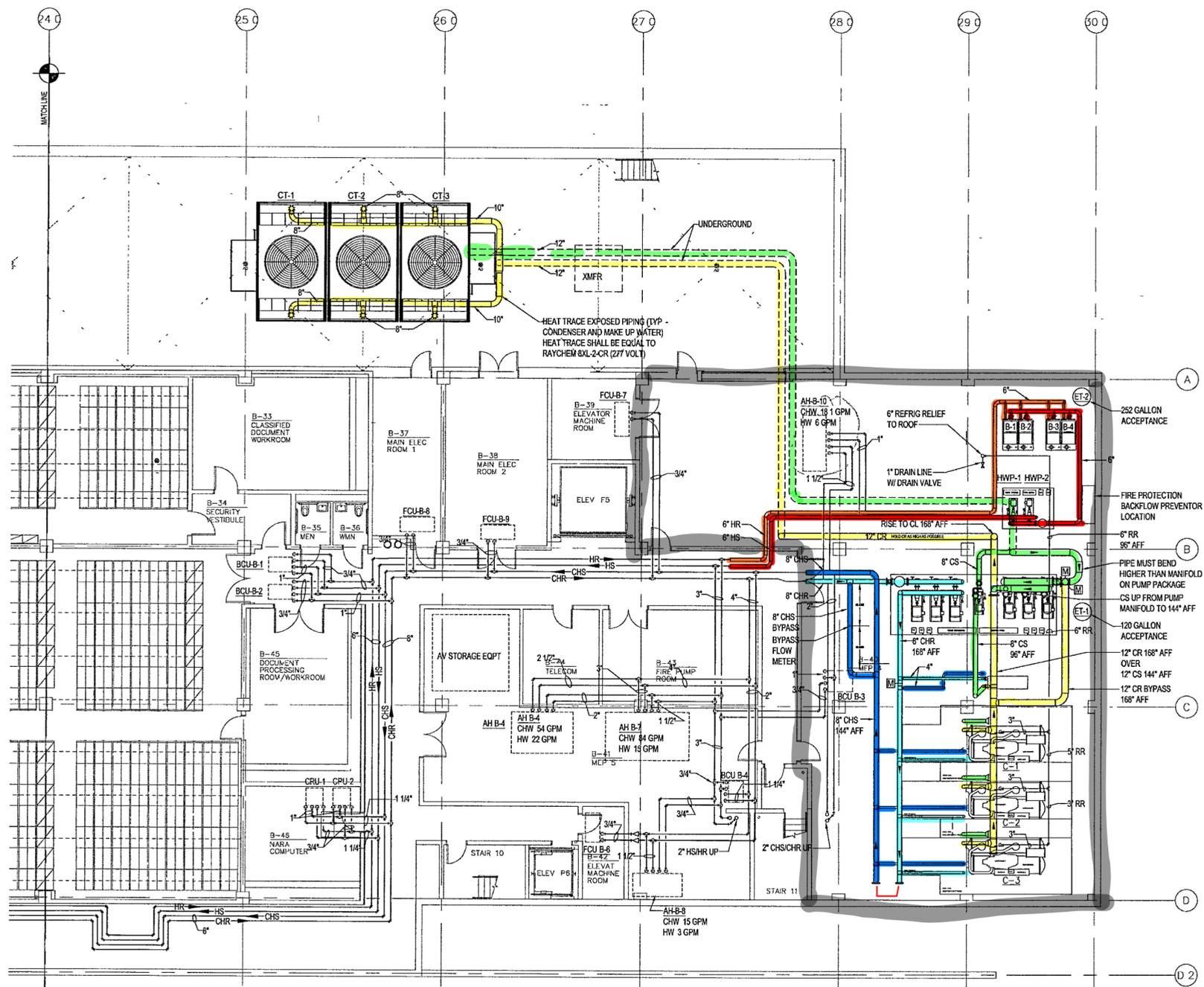
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Title: ARCHIVES
BASEMENT LEVEL
MECHANICAL PIPING
PARTIAL PLAN
Sheet No.

M400d



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1 ARCHIVES - BASEMENT LEVEL MECHANICAL PIPING PARTIAL PLAN
M300d | M300d 1/8" = 1'-0" NORTH

GENERAL NOTES

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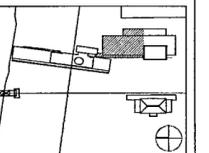
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Issue	Date



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Date SEPTEMBER 27, 2002

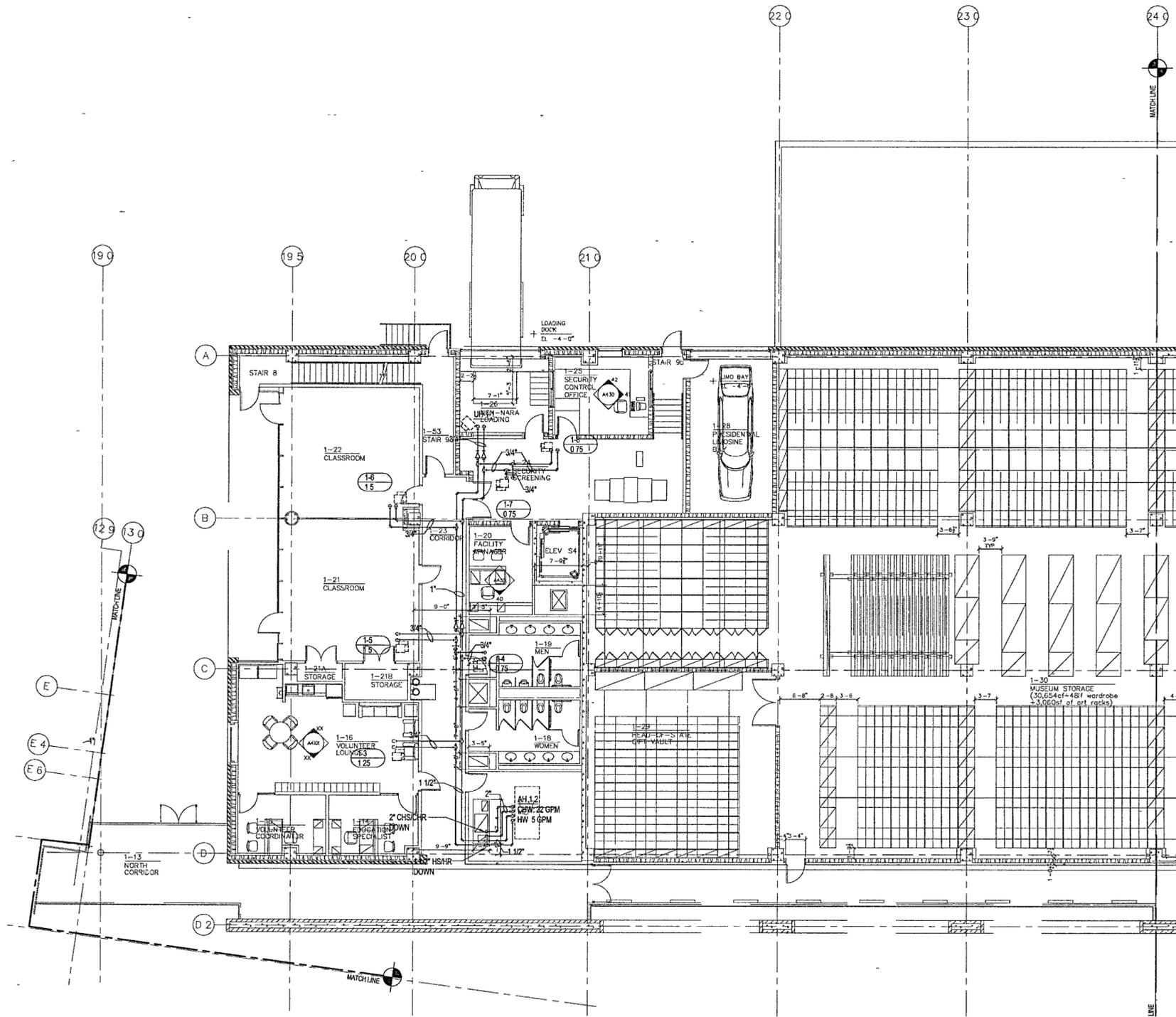
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**ARCHIVES
GROUND LEVEL
MECHANICAL PIPING
PARTIAL PLAN**

Sheet No.

M401c



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1 ARCHIVES - FIRST LEVEL MECHANICAL PIPING PARTIAL PLAN

M401c | M401c 1/8" = 1'-0"



GENERAL NOTES

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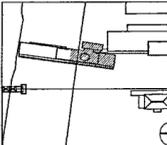
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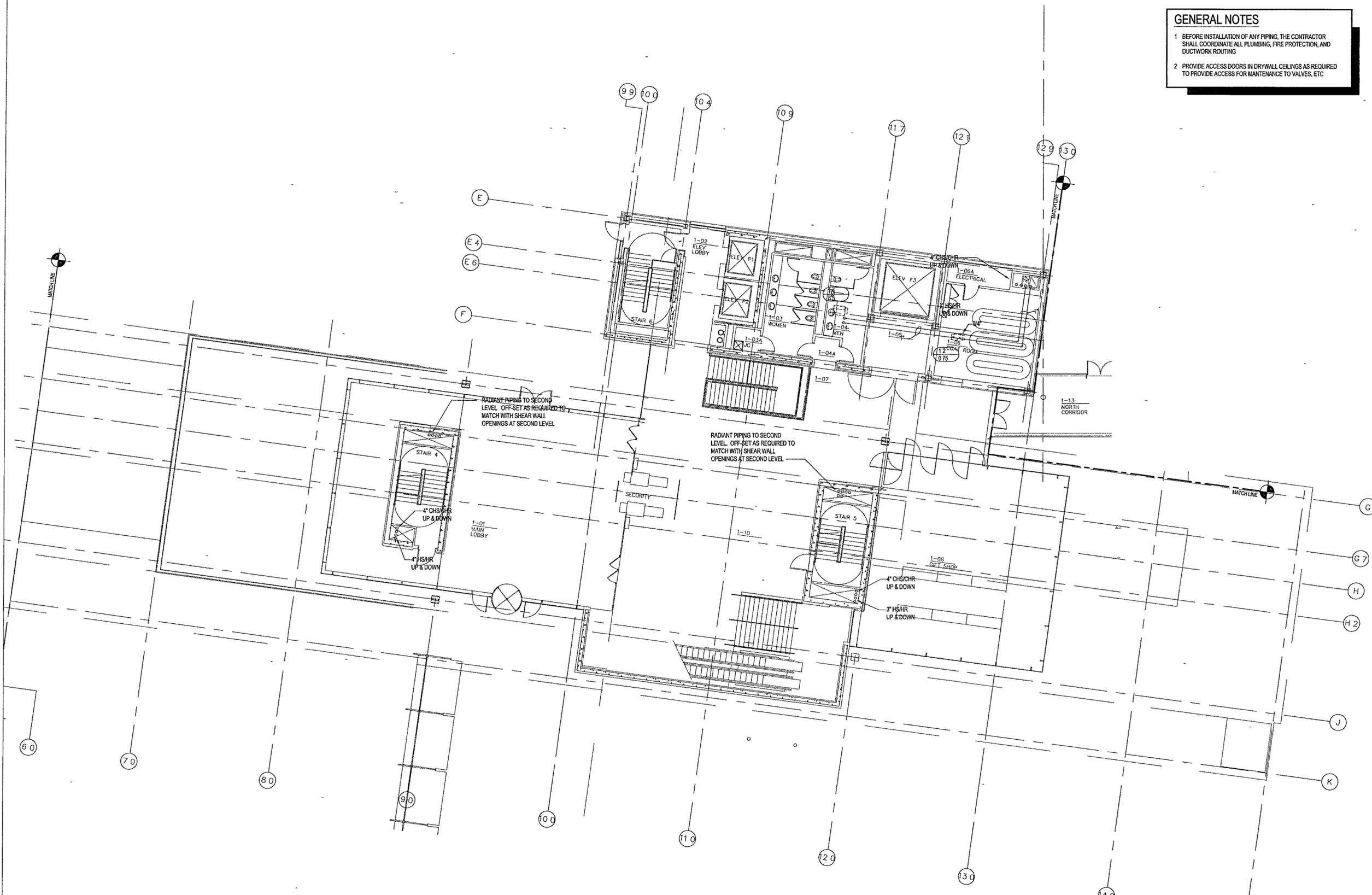
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Title
**MUSEUM
GROUND LEVEL
MECHANICAL PIPING
PARTIAL PLAN**

Sheet No.
M401b



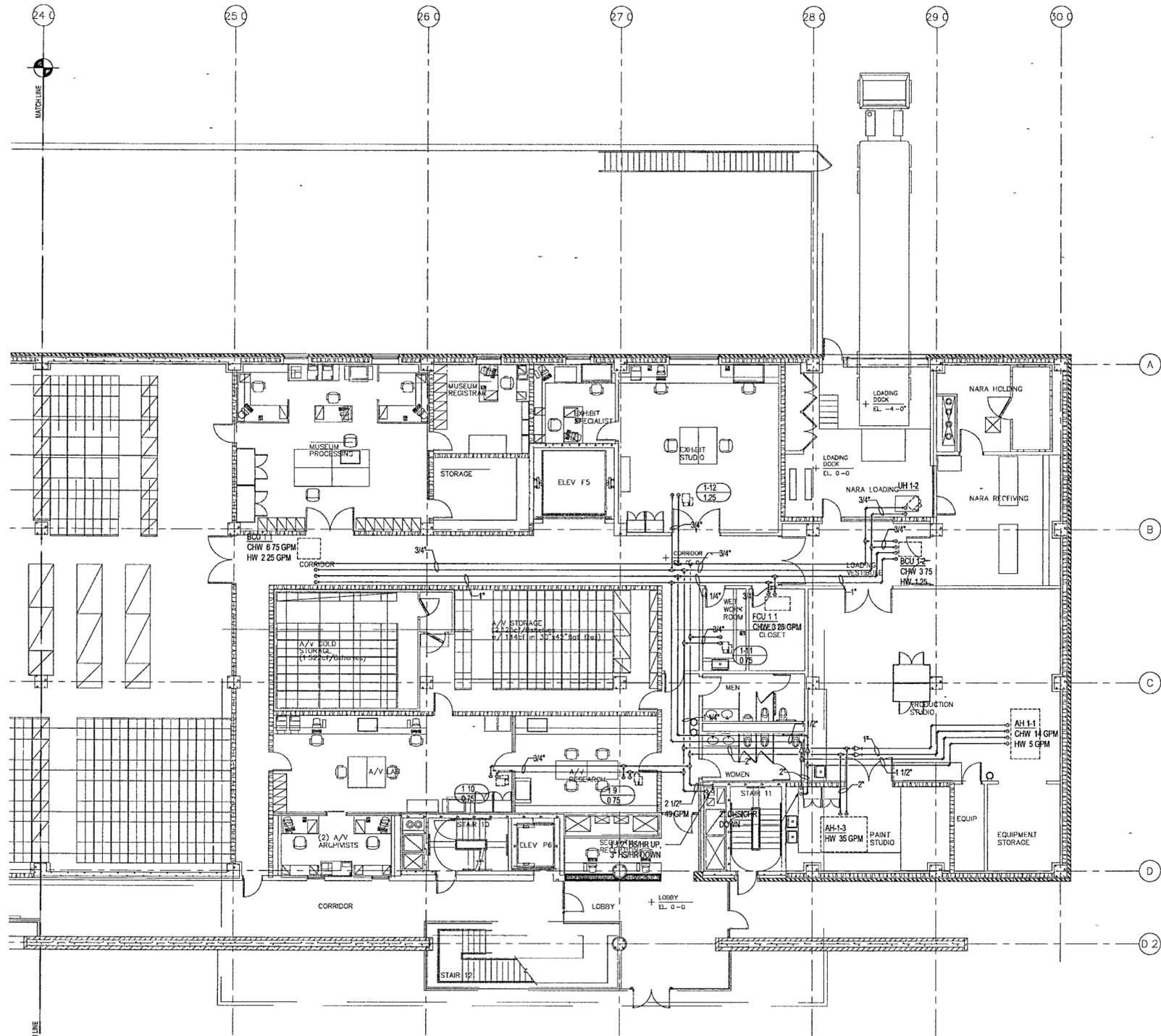
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1 MUSEUM - GROUND LEVEL MECHANICAL PIPING PARTIAL PLAN

M401b | M401b 1/8" = 1'-0"





1 ARCHIVES - GROUND LEVEL MECHANICAL PIPING PARTIAL PLAN
 M401d | M401d 1/8" = 1'-0"

GENERAL NOTES

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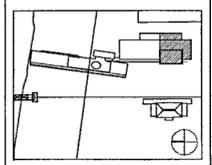
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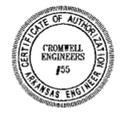
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Date: **SEPTEMBER 27, 2002**

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 PARTIAL PLAN**

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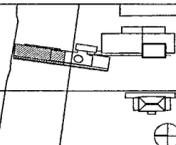
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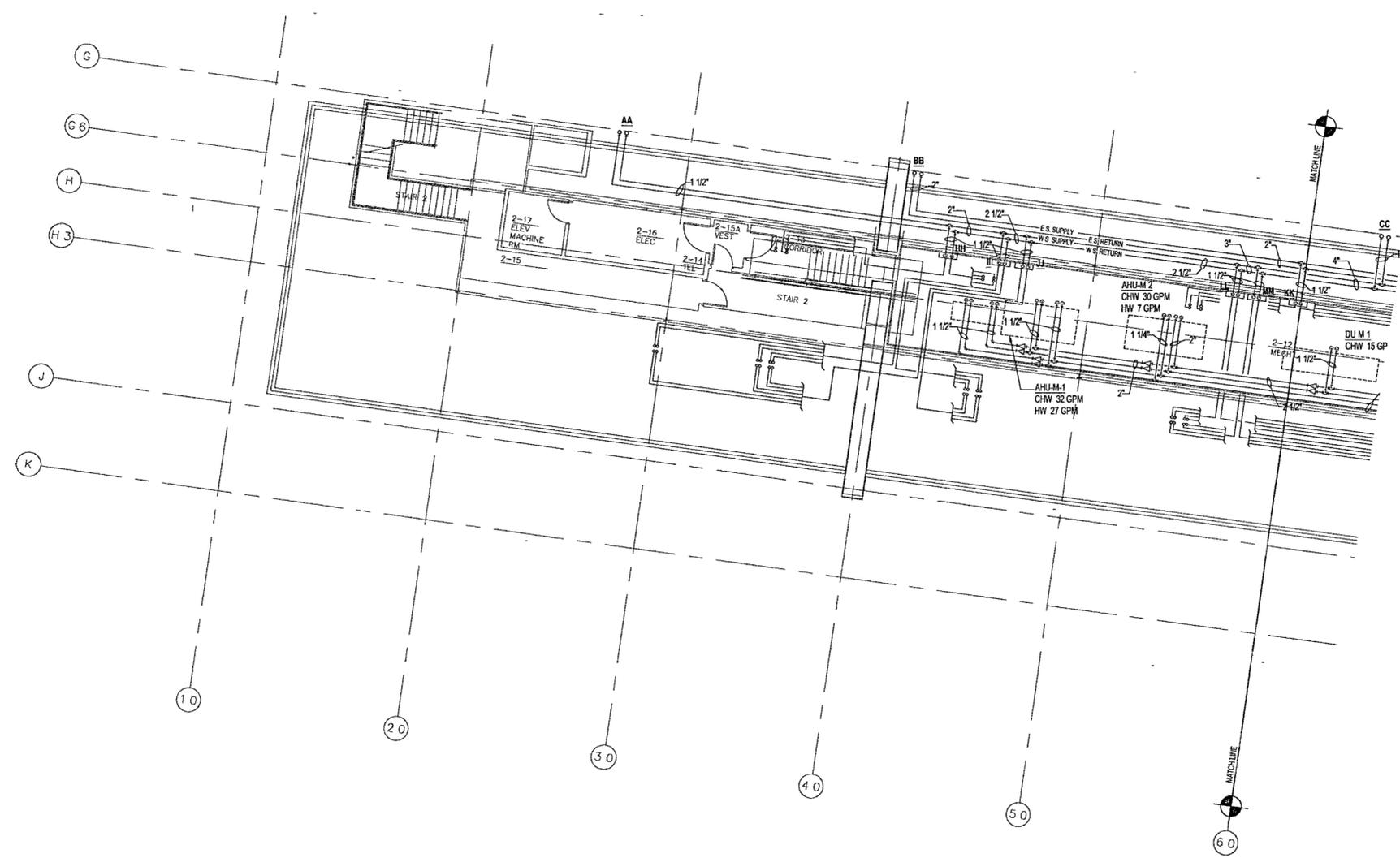
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Sheet No. **M402a**



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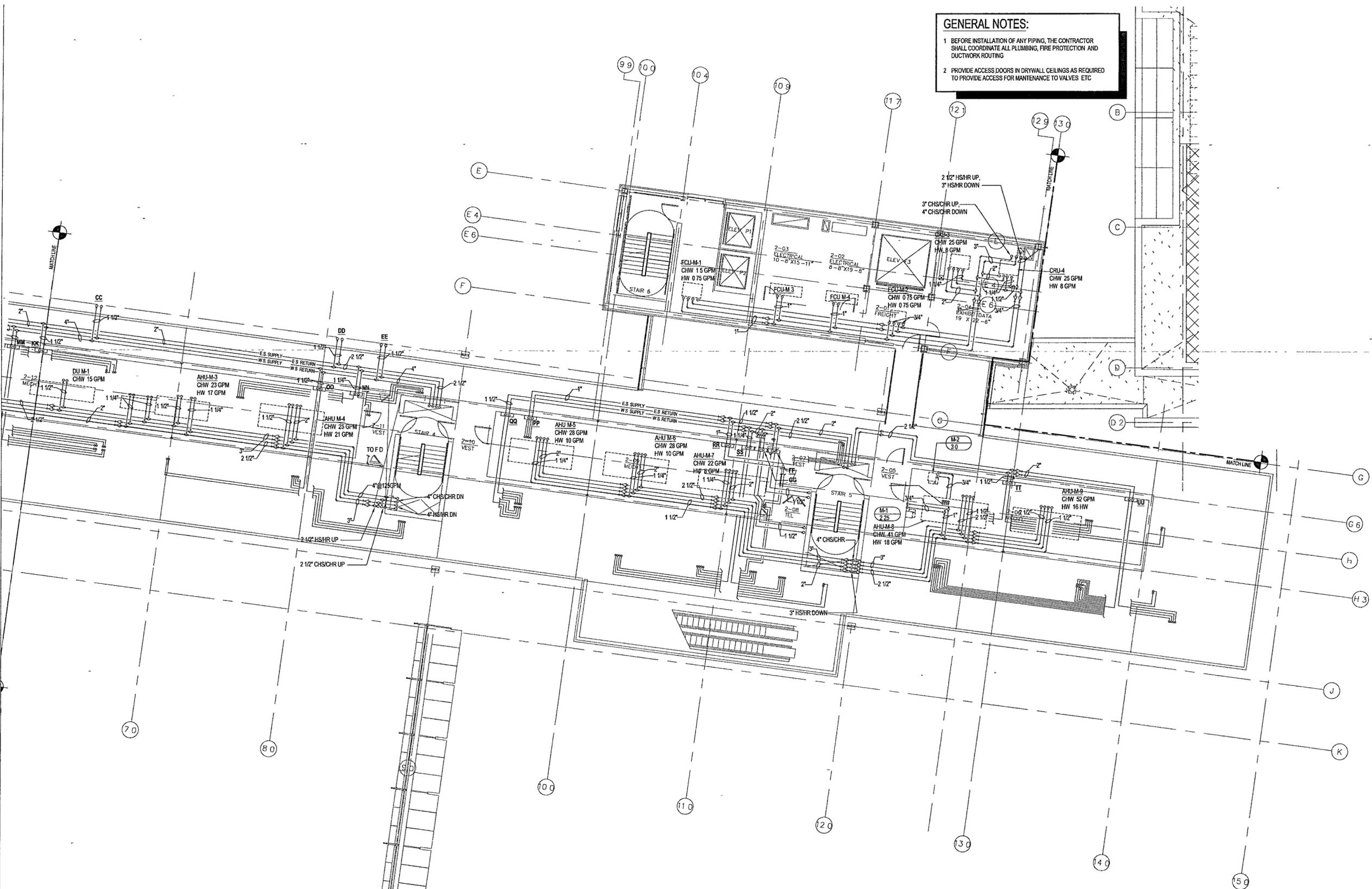


1 MUSEUM - SECOND LEVEL MECHANICAL PIPING PARTIAL PLAN
M302a | M302a 1/8" = 1'-0"



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1 MUSEUM - SECOND LEVEL MECHANICAL PIPING PARTIAL PLAN
 M302b | M302b 1/8" = 1'-0"



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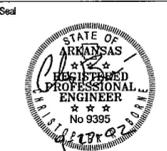
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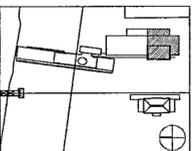
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Issue	Date



Job No POLLSHEK & PARTNERS ARCH 8908
CRONMELL AE 99-114

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Date SEPTEMBER 27 2002

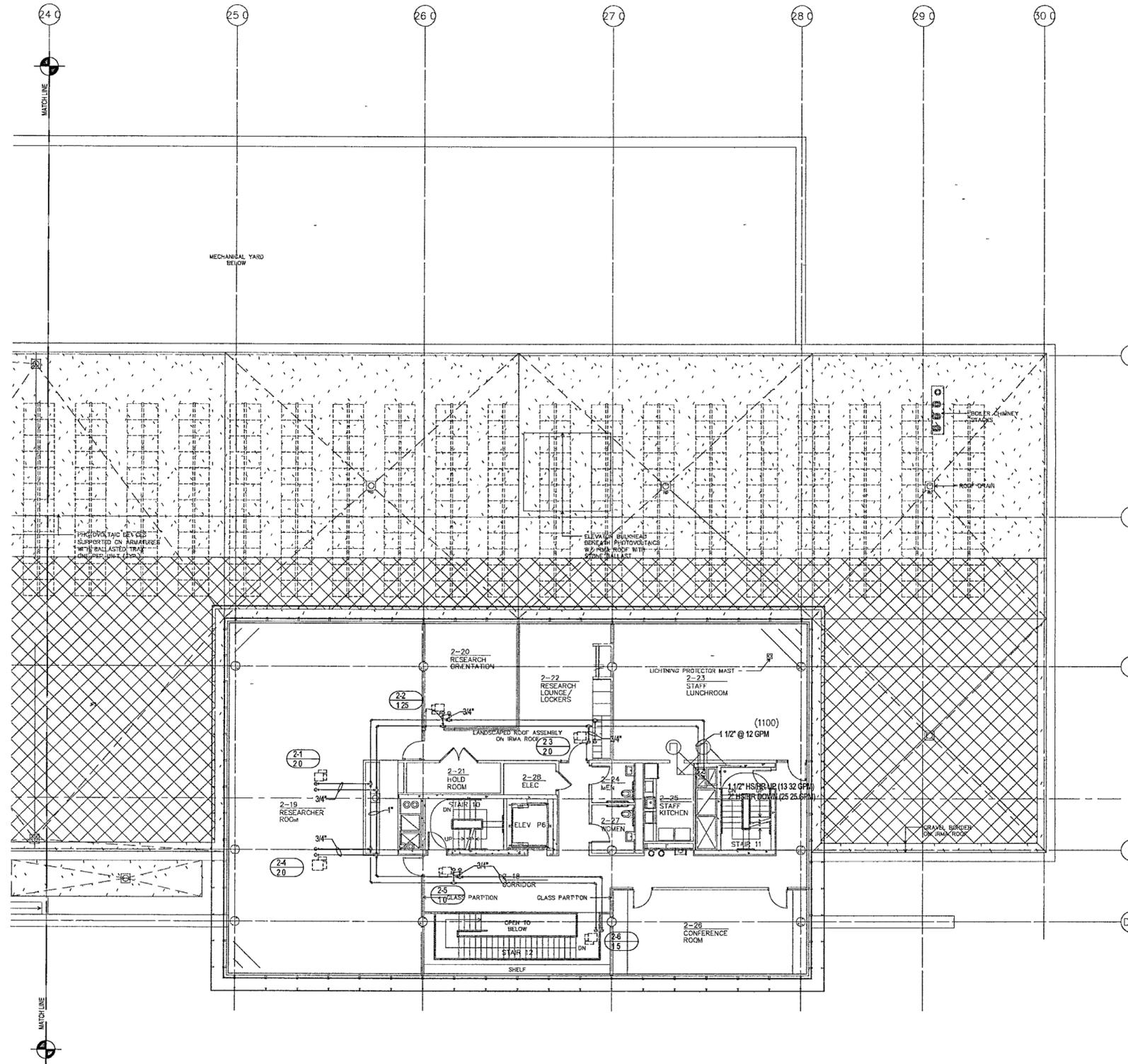
Title **ARCHIVES
ROOF/SECOND LEVEL
MECHANICAL PIPING
PARTIAL PLAN**

Sheet No

M402d



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1 ARCHIVES - ROOF/SECOND LEVEL MECHANICAL PIPING PARTIAL PLAN
M302d | M302d 1/8" = 1'-0"



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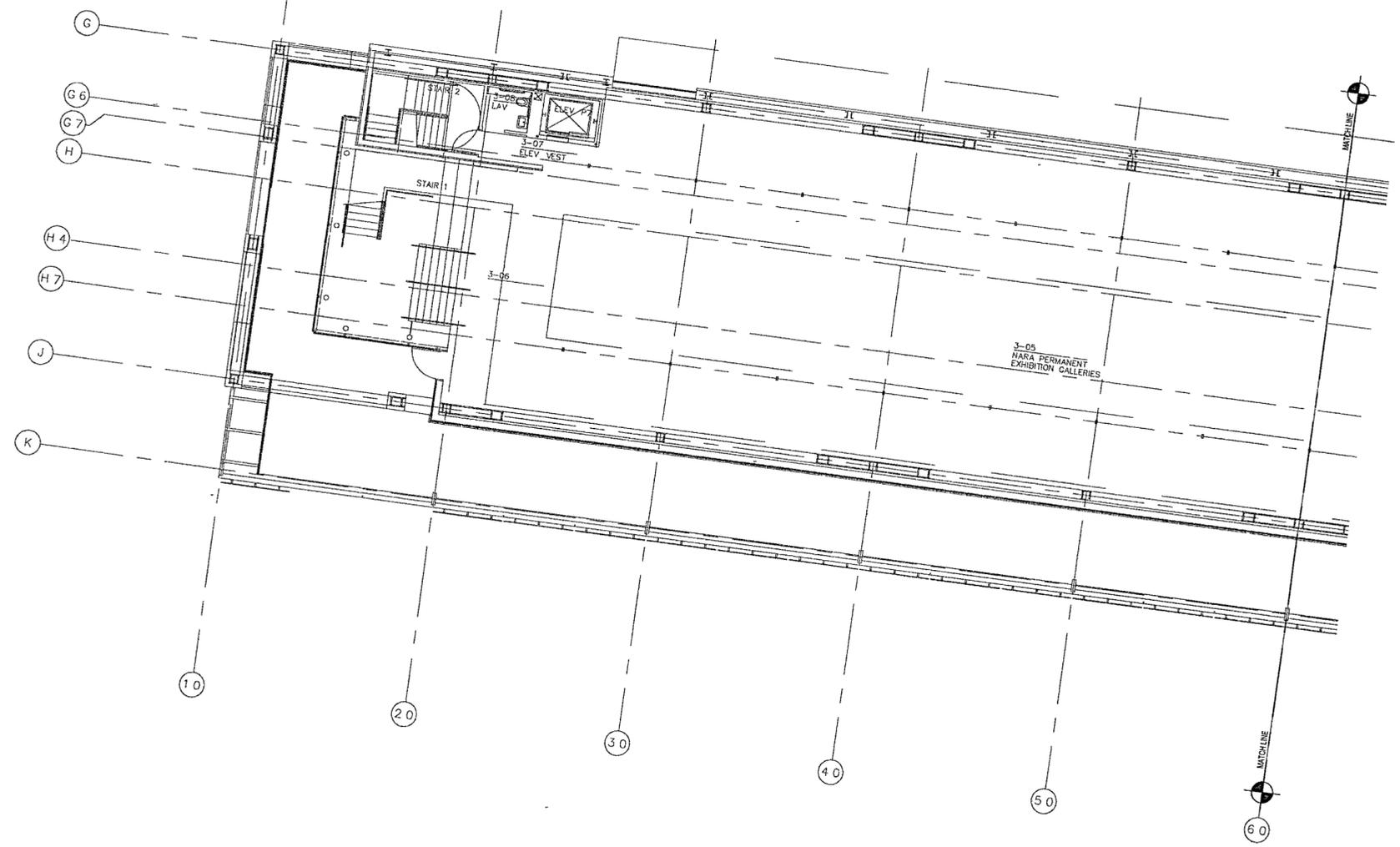
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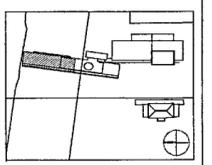


1 MUSEUM - LOWER LEVEL MECHANICAL PIPING PARTIAL PLAN 

M303a | M303a 1/8" = 1'-0"



Issue	Date
100% Construction Documents	09/27/02
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Job No: POLSHEK & PARTNERS ARCH. 8908
CROMWELL AE 99-114

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Title: **MUSEUM
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PARTIAL PLAN**

Sheet No: **M403a**



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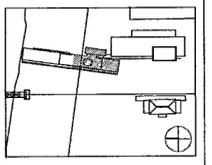
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Issue	Date



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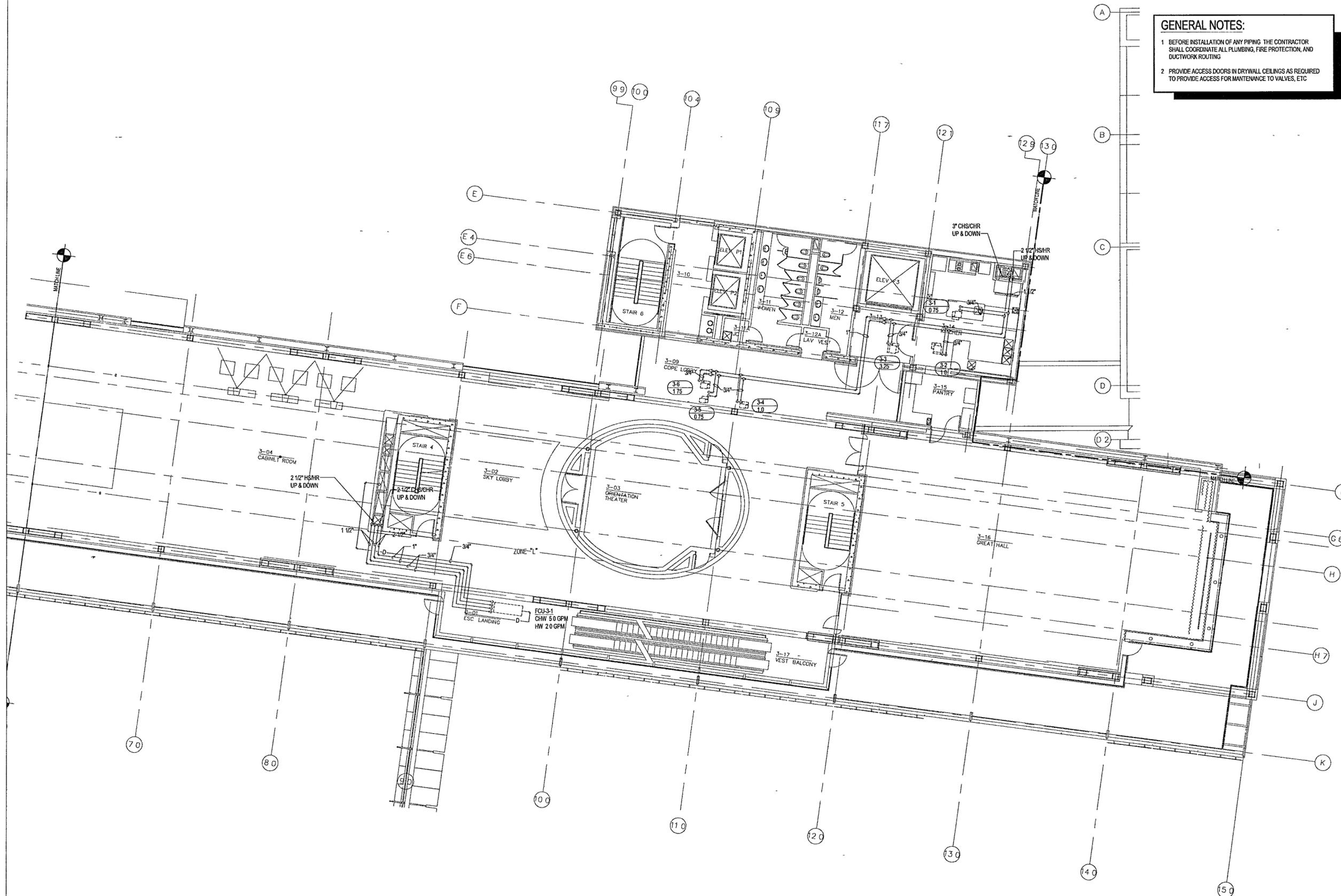
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LOWER LEVEL
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PARTIAL PLAN**

Sheet No.

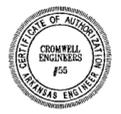
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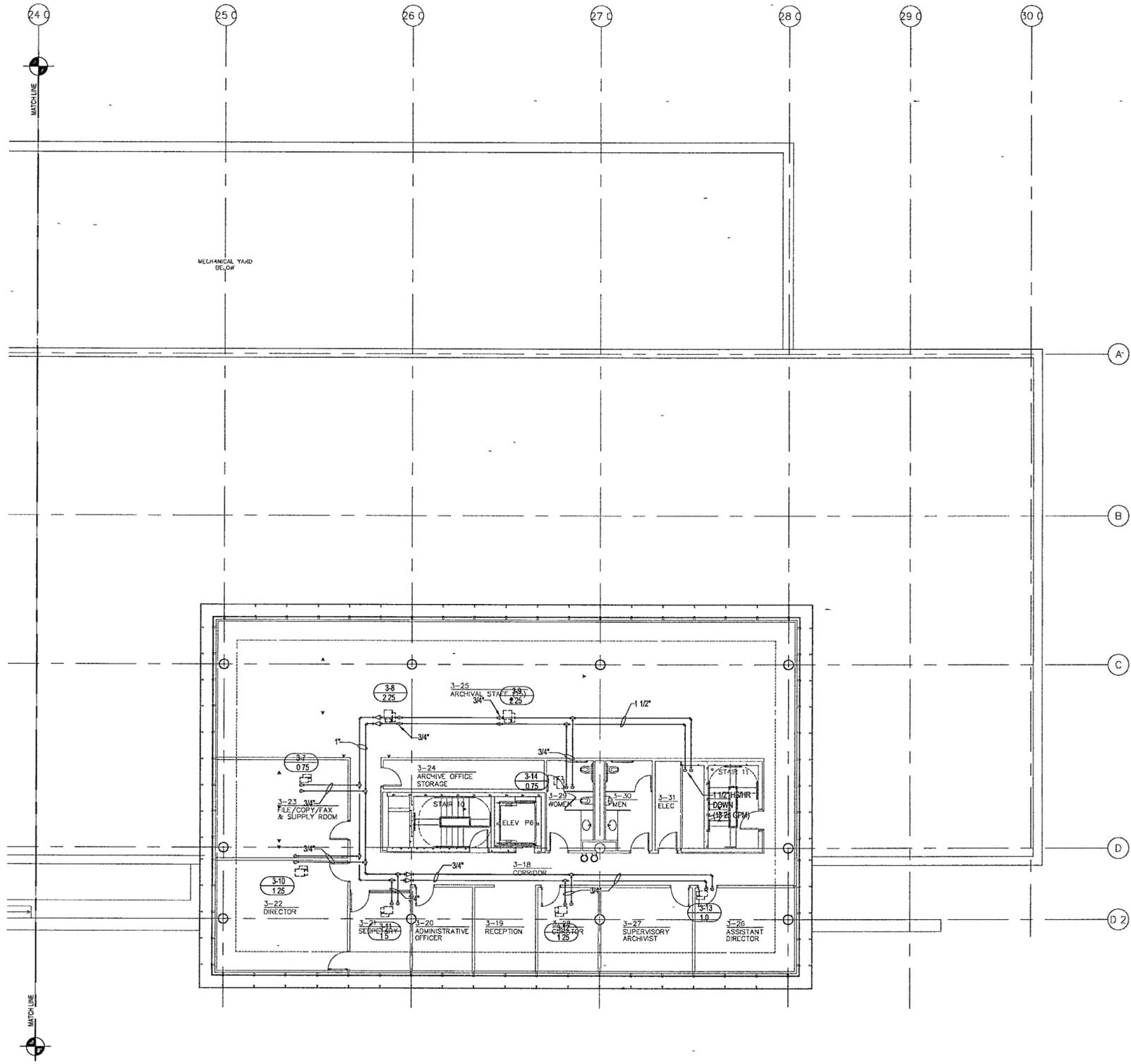
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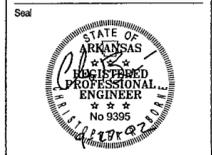
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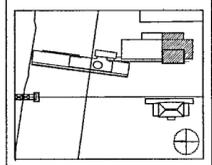
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1 ARCHIVES - THIRD LEVEL MECHANICAL PIPING PARTIAL PLAN

M303d M303d 1/8" = 1'-0"

Job No. POLSHEK & PARTNERS ARCH 9908
 CROMWELL AE 99-114

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

Date: SEPTEMBER 27, 2002

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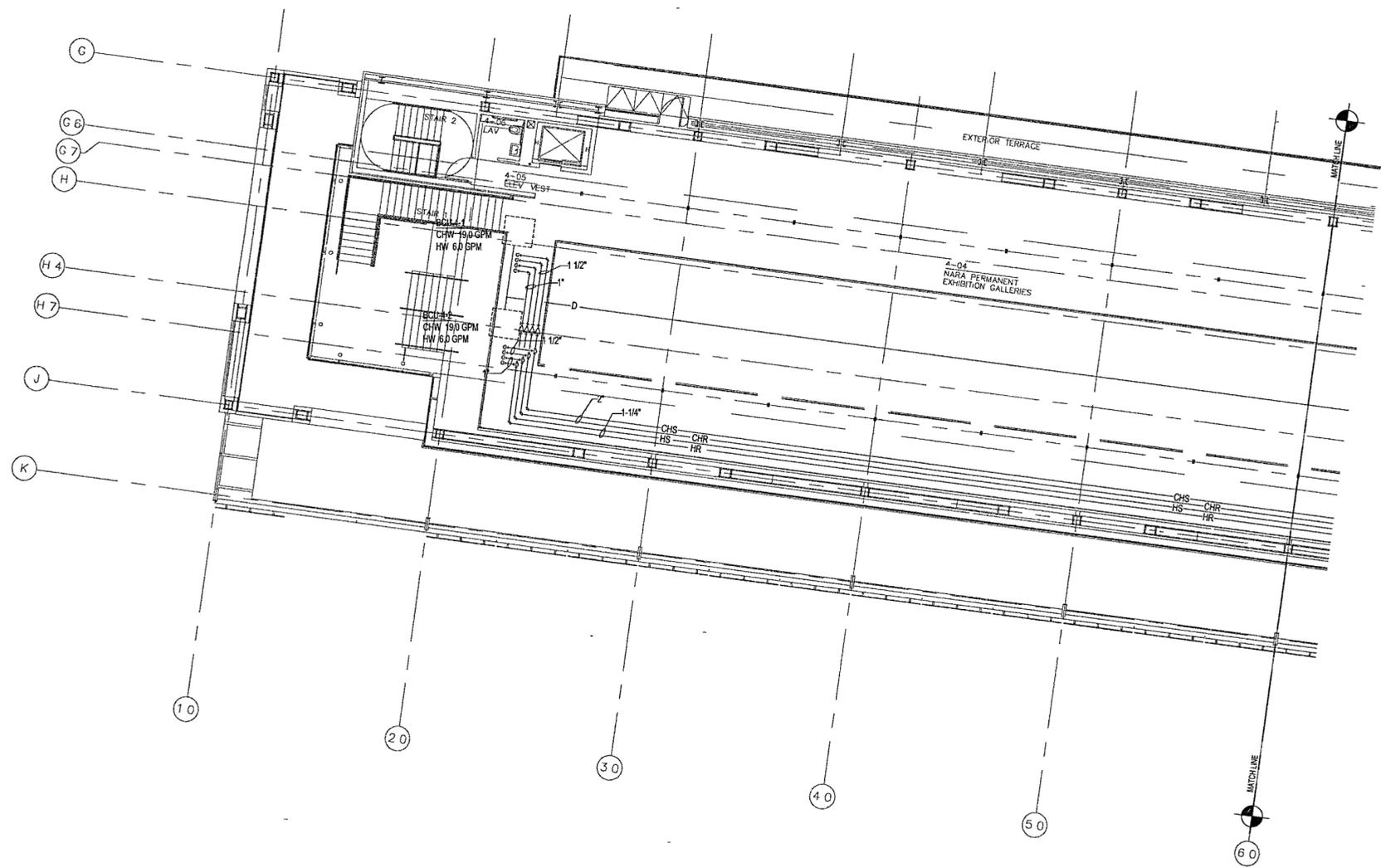
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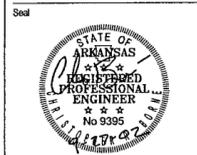
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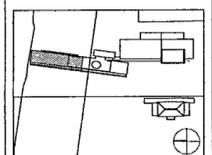


1 MUSEUM - UPPER LEVEL MECHANICAL PIPING PARTIAL PLAN

M304a | m304a 1/8" = 1'-0"



Issue	Date
100% Construction Documents	09/22/02
90% Progress Printing	08/30/02



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MECHANICAL PIPING
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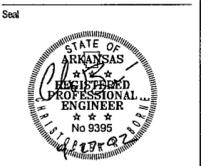
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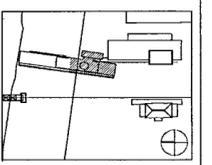
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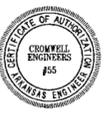
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CROMWELL AE 99-114

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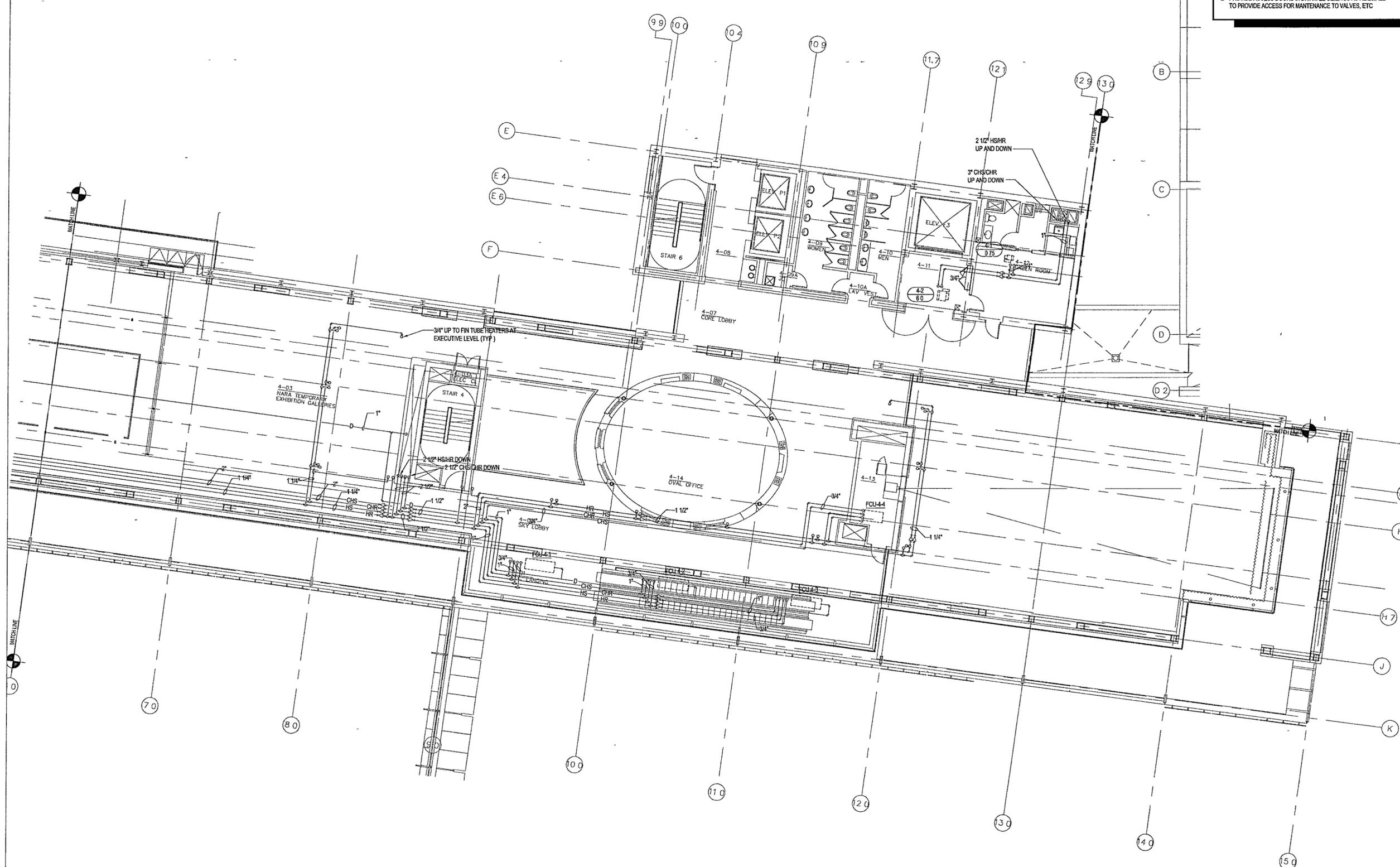
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M304b | M304b 1/8" = 1'-0"

25

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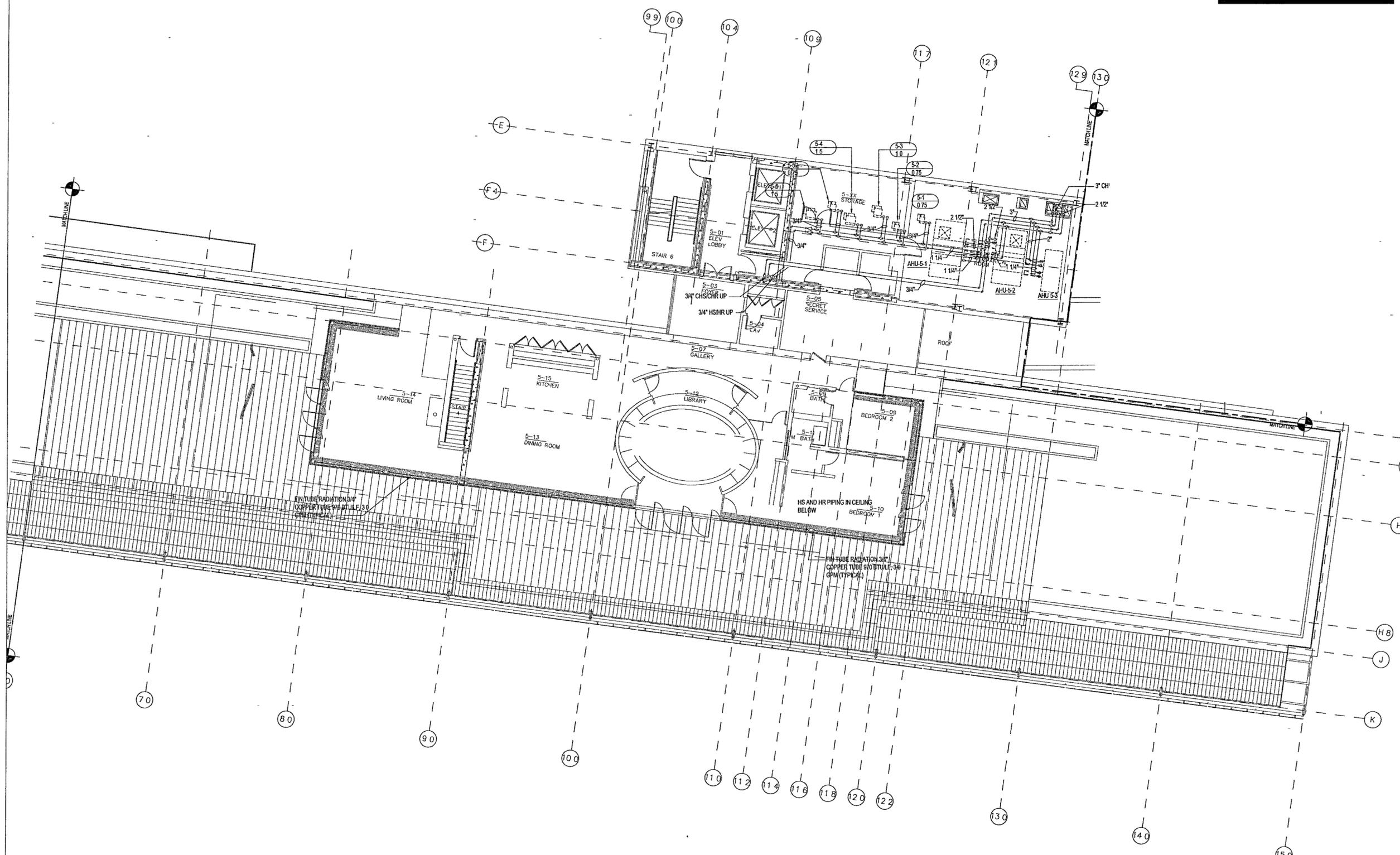
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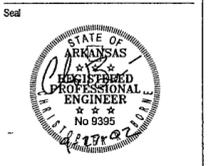
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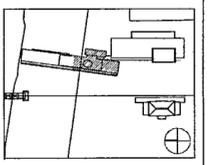


1 MUSEUM ROOF/EXECUTIVE LEVEL - MECHANICAL PIPING PLAN

M405b | M405b 1/8" = 1'-0"



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92% Progress Piping	08/30/02
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CROMWELL AE 99-114

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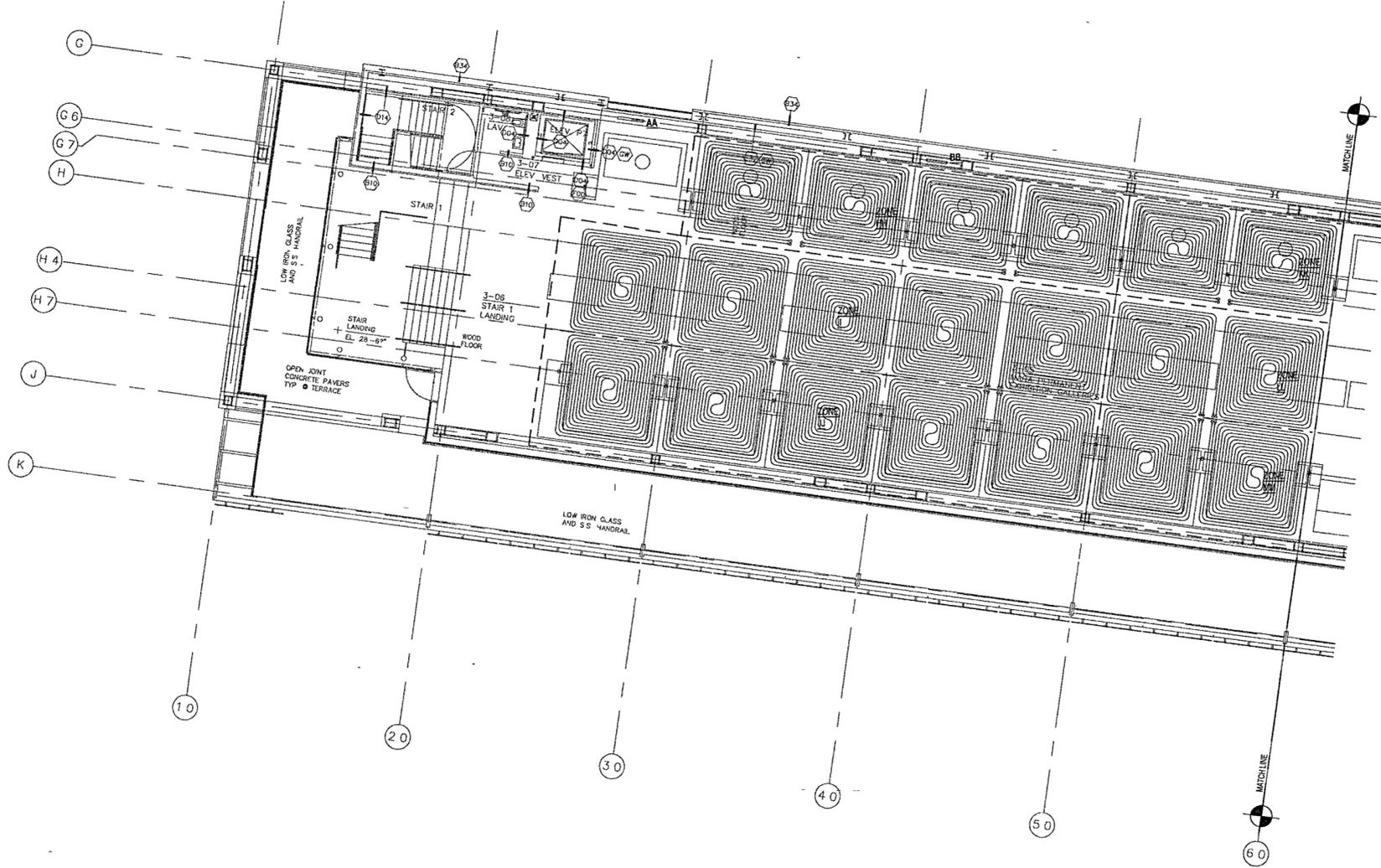
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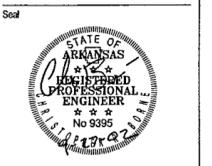
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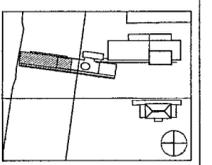


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2/2
20/10/03

1 MUSEUM - LOWER LEVEL RADIANT PIPING PARTIAL PLAN
M306a | M306a 1/8" = 1'-0"



Issue	Date
100% Construction Documents	09/27/02
90% Progress Printing	08/26/02
100% Design Development	03/01/02
Trust as M306a	



Job No. POLSHEK & PARTNERS ARCH 9908
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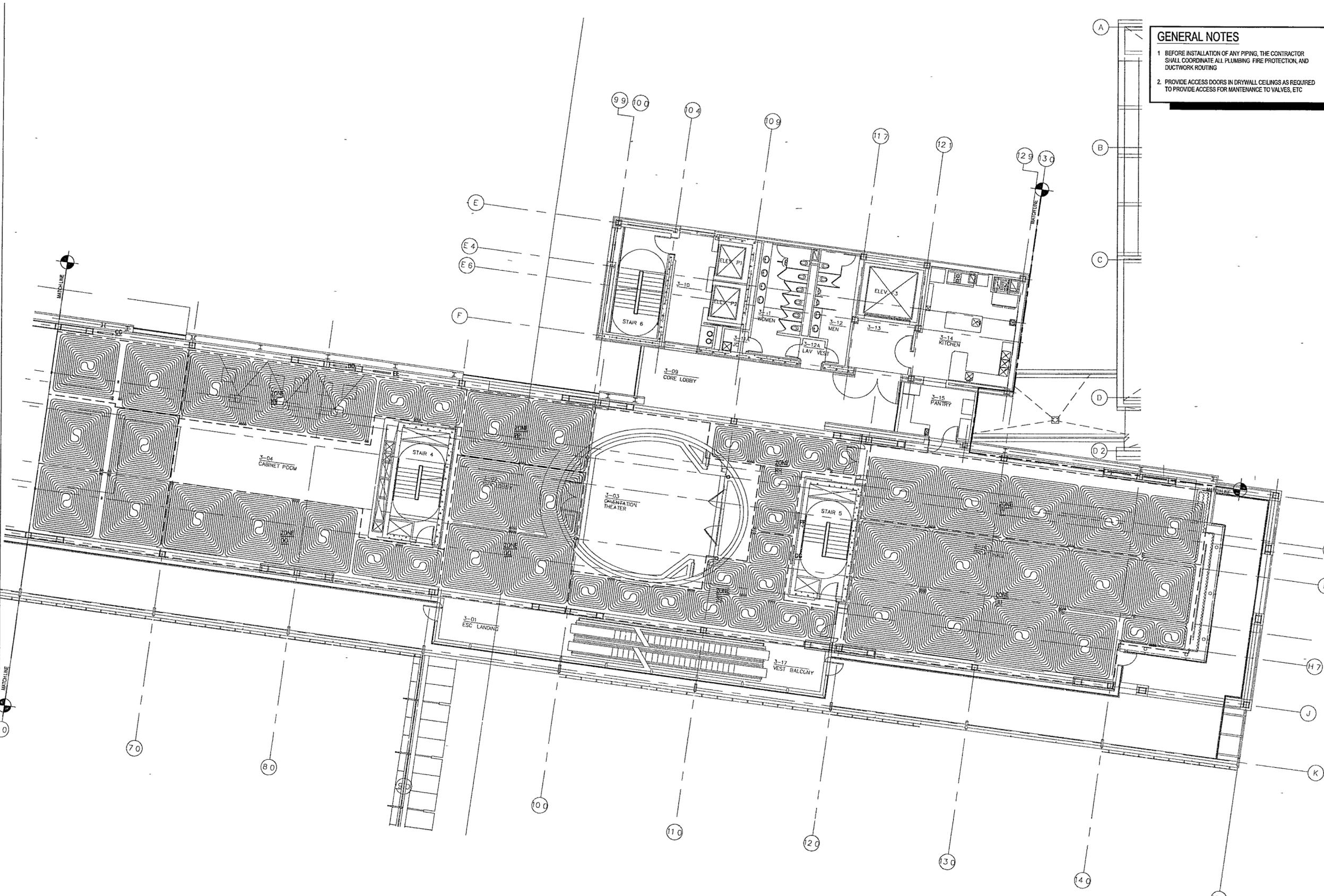
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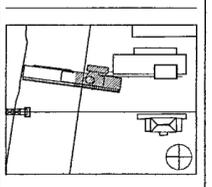
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90% Progress Printing	09/30/02
100% Design Development Titled as M406b	03/01/02



Job No: **POLSHEK & PARTNERS ARCH 9908**
 CROMWELL AE 99-114
 Scale: **1/8" = 1'-0"**
 Date: **SEPTEMBER 27, 2002**

Title: **MUSEUM
LOWER LEVEL
RADIANT PIPING
PARTIAL PLAN**

Sheet No: **M406b**

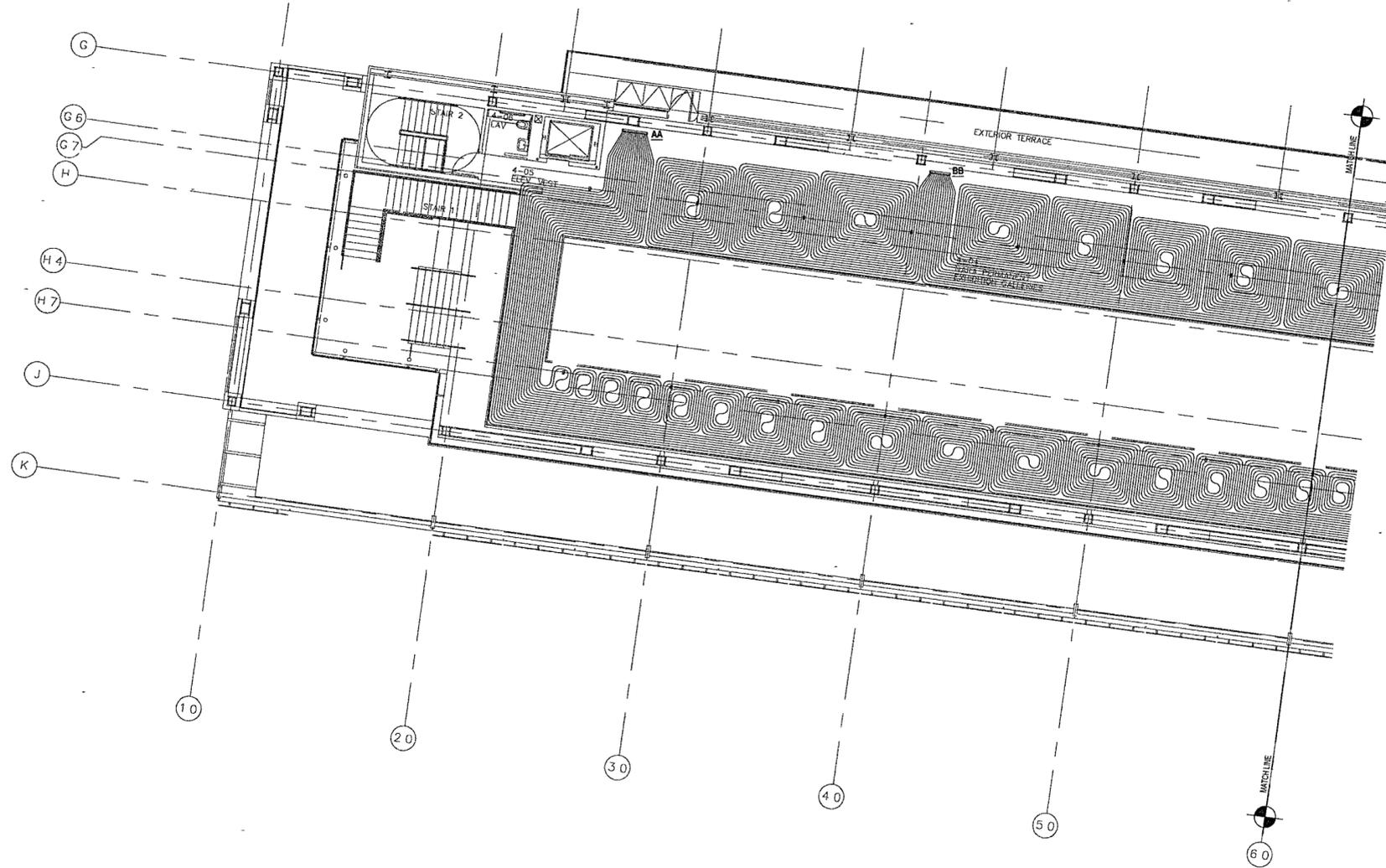
1 MUSEUM - LOWER LEVEL RADIANT PIPING PARTIAL PLAN
 M406b M406b 1/8" = 1'-0"



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GENERAL NOTES

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- PROVIDE ACCESS DOORS IN DRYWALL CEILINGS AS REQUIRED TO PROVIDE ACCESS FOR MAINTENANCE TO VALVES, ETC



1 MUSEUM - UPPER LEVEL RADIANT PIPING PARTIAL PLAN
 M407a | m407a 1/8" = 1'-0"



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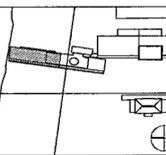
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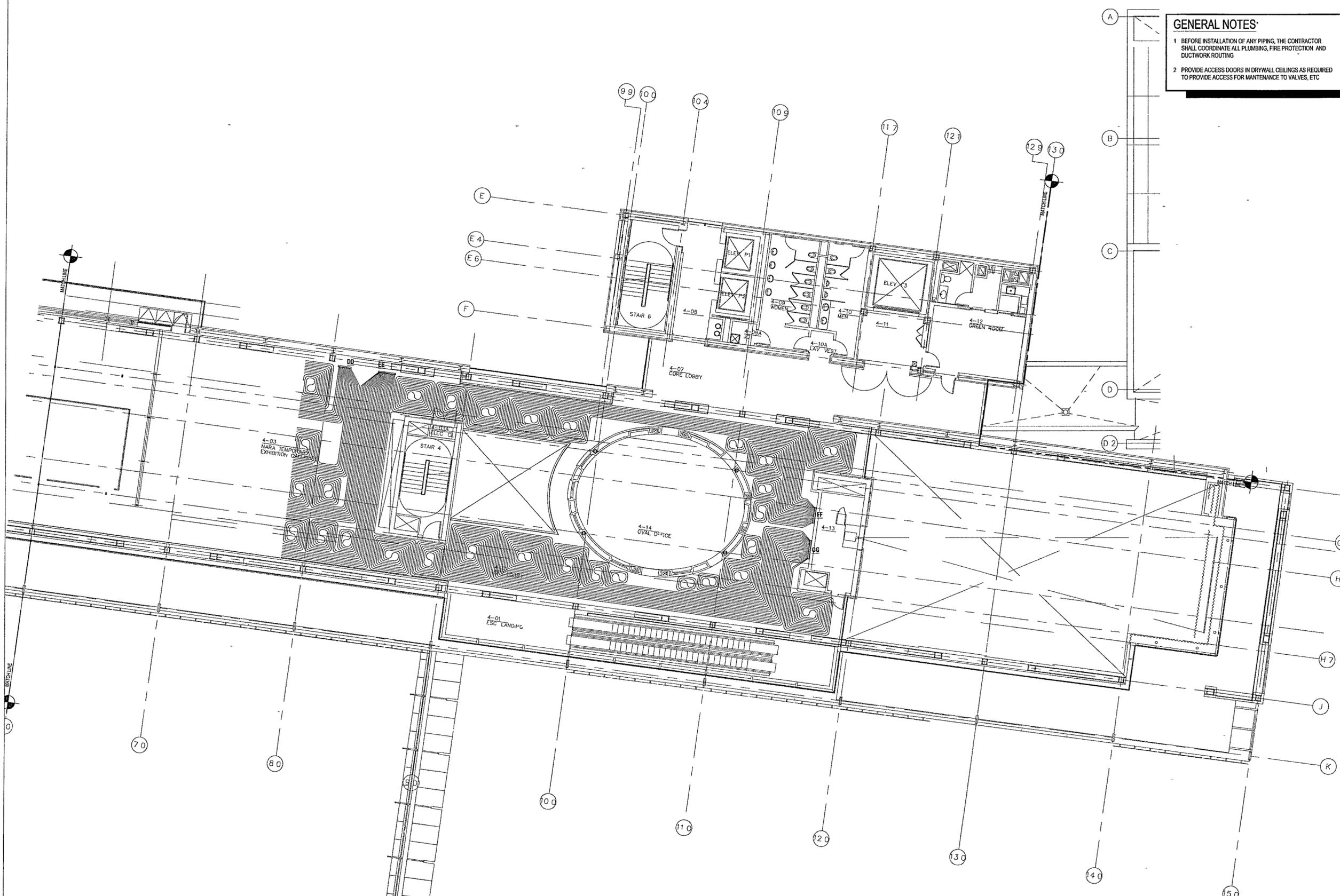
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UPPER LEVEL
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Sheet No.

M407a



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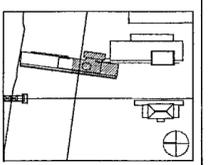
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100% Permit Development	03/01/02
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Title: **MUSEUM
UPPER LEVEL
RADIANT PIPING
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Sheet No: **M407b**

1 MUSEUM - UPPER LEVEL RADIANT PIPING PARTIAL PLAN
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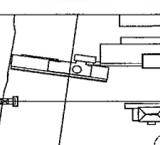
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Issue	Date



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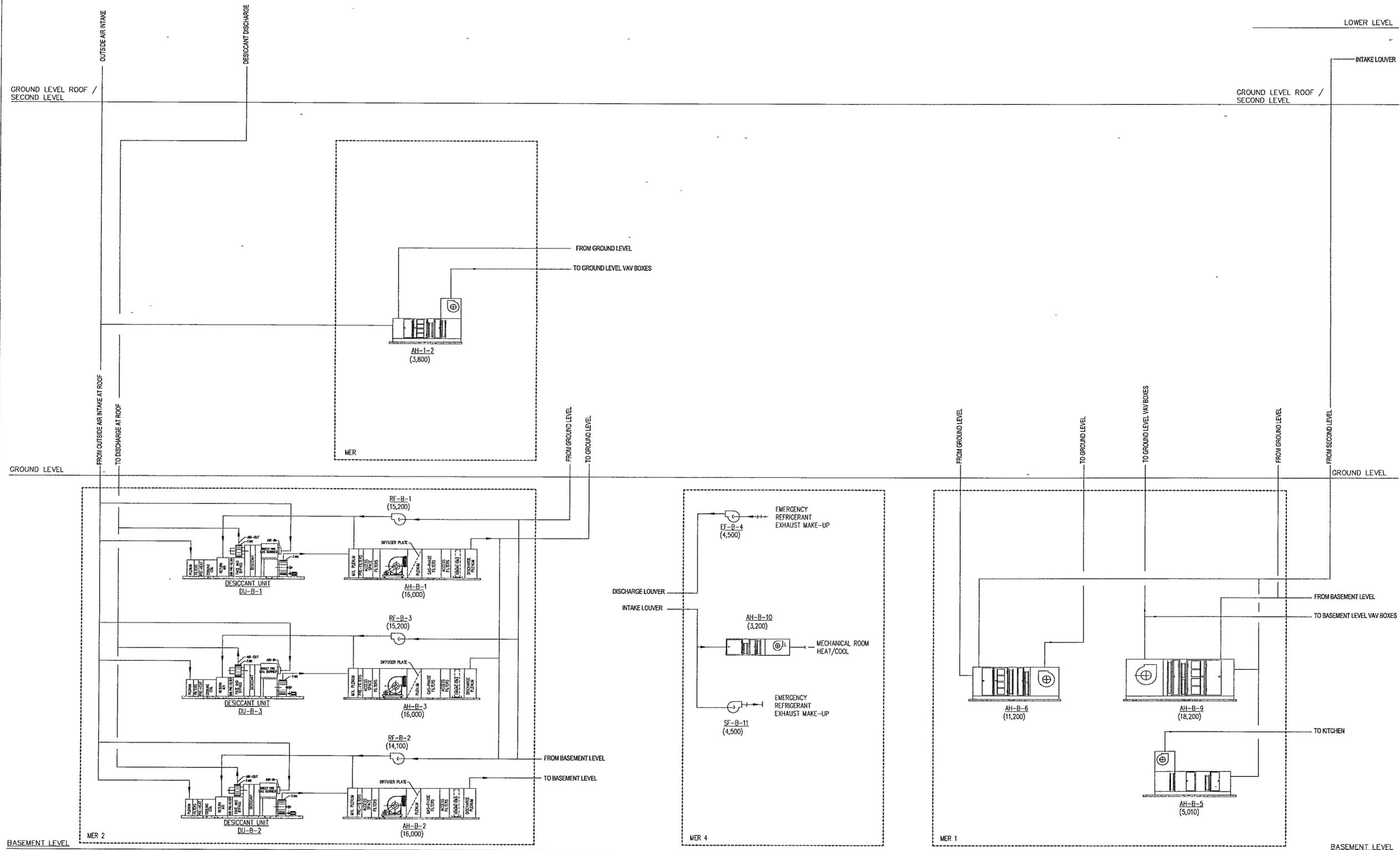
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Title
**HVAC AIR RISER
DIAGRAM NO 1**

Sheet No

M500

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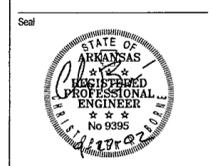
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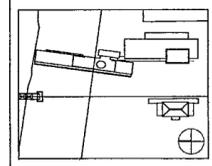
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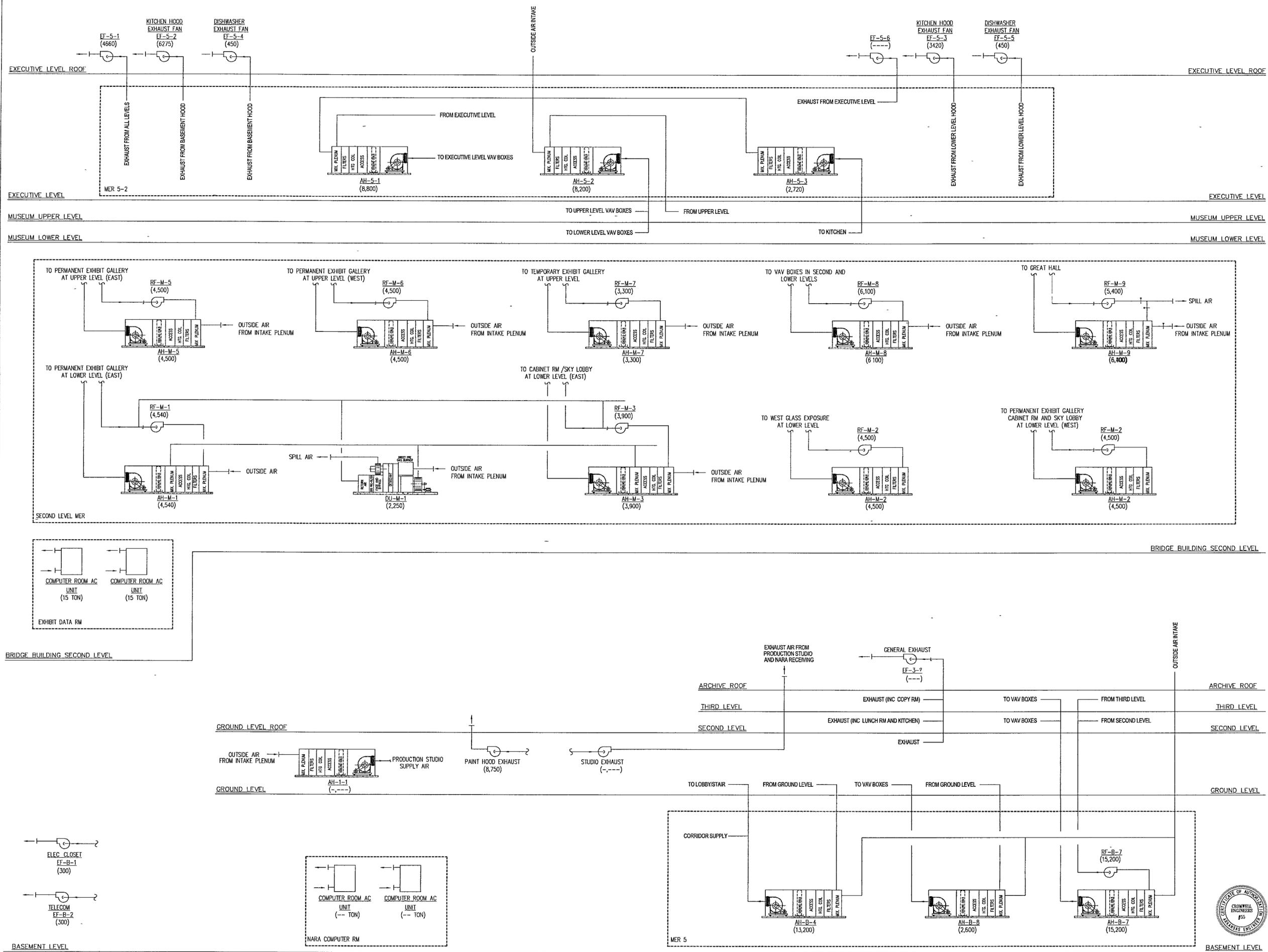
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90% Progress Printing	06/20/02
100% Design Development	03/01/02
Issue	Date



Job No. POLSHEK & PARTNERS ARCH 9908
CROMWELL AE 99-114
Scale
Date SEPTEMBER 27, 2002
Title

**HVAC AIR RISER
DIAGRAM NO 2**

Sheet No. **M501**



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#55
MECHANICAL ENGINEERS

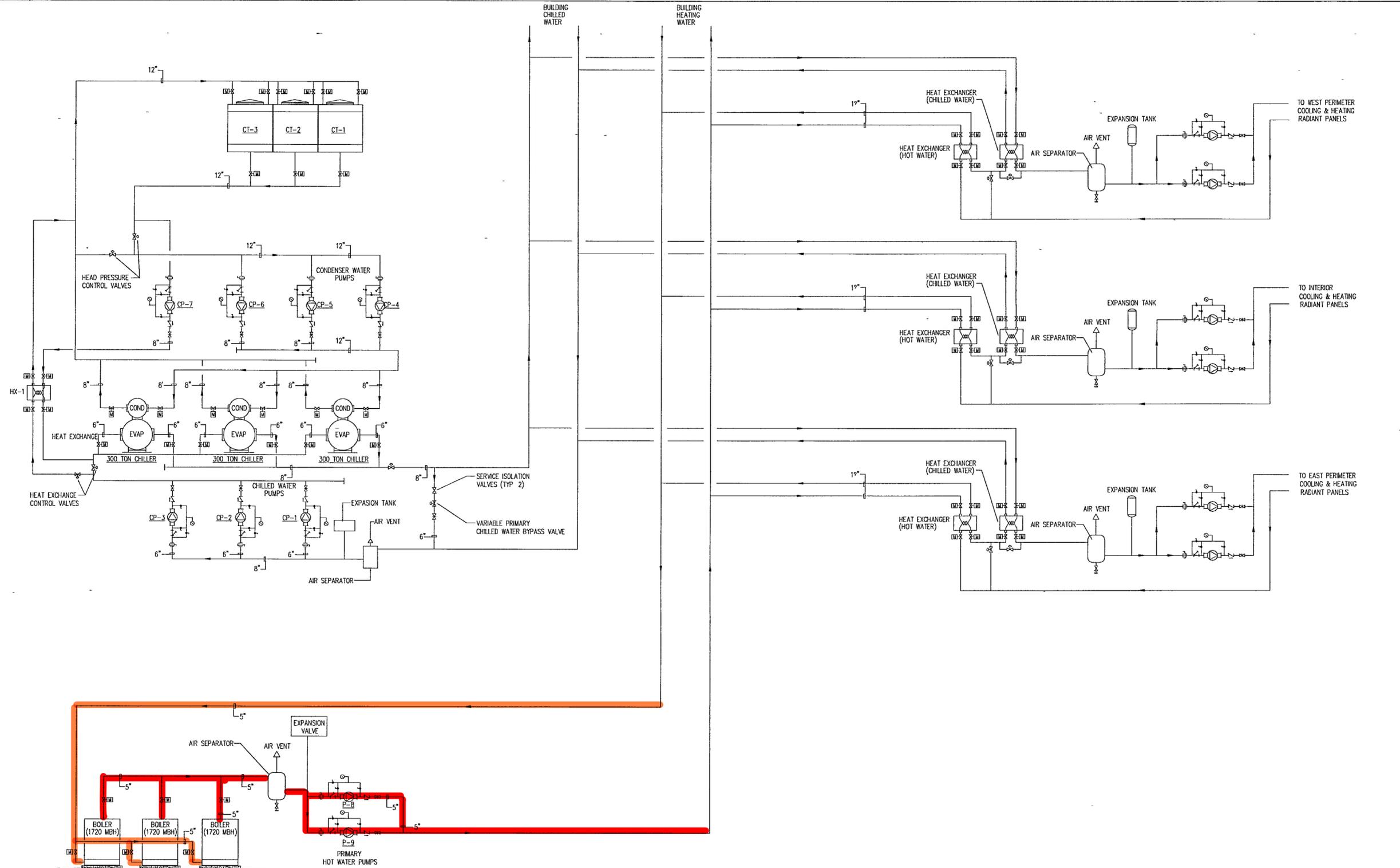
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MUSEUM LOWER LEVEL

MUSEUM LOWER LEVEL

GROUND LEVEL

GROUND LEVEL



NOTE ALL VALVES AND ACCESSORIES ARE NOT SHOWN ON THIS DRAWING REFER TO COMPONENT CONNECTION DETAILS FOR ADDITIONAL REQUIREMENTS

NOTE ALL PIPING SHOWN IS SCHEMATIC

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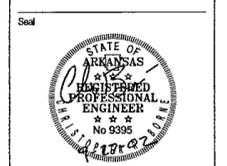
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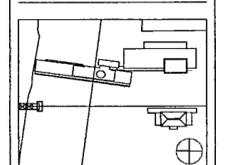
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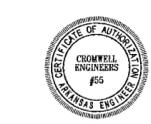
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Date: SEPTEMBER 27 2002

Title: **HVAC WATER
RISER DIAGRAM
NO 1**

Sheet No. **M502**



BASEMENT LEVEL

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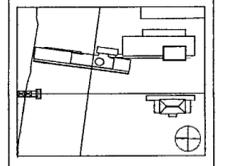
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100% Design Development	03/01/02



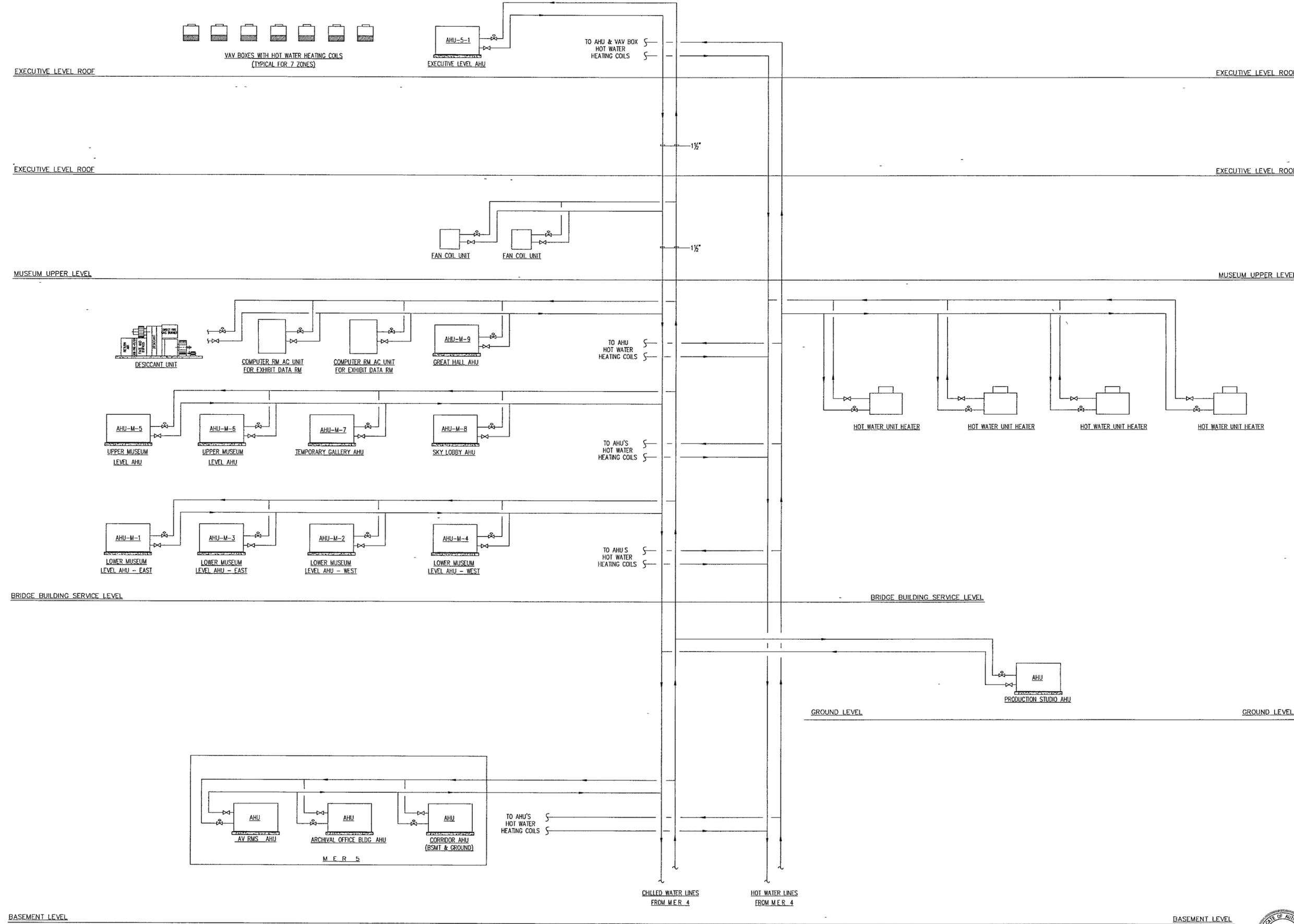
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CROMWELL AE 99-114

Scale:
Date: SEPTEMBER 27, 2002

**HVAC WATER
RISER DIAGRAM**

Sheet No.
M503

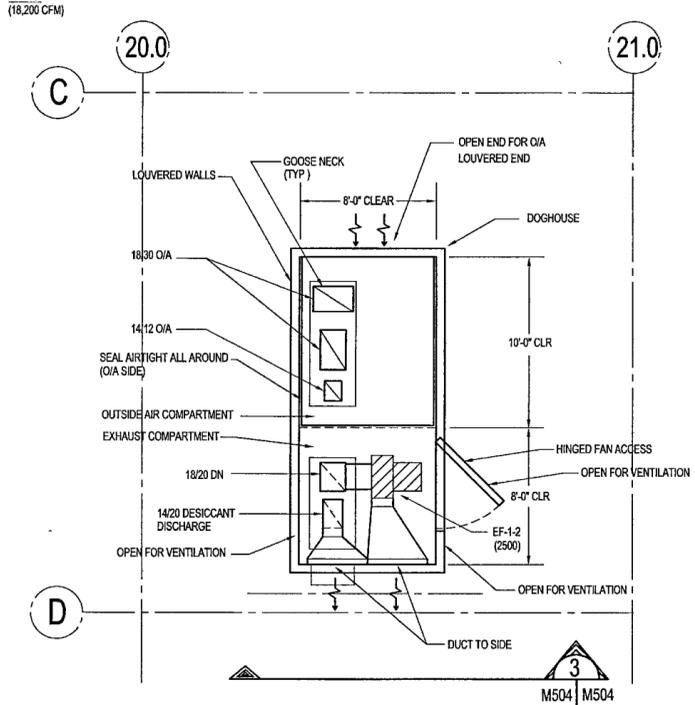
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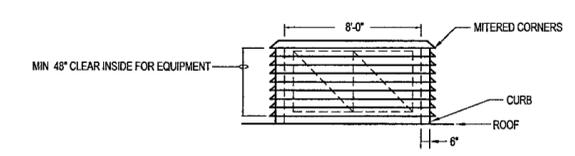
4/17



1 ENLARGED MECHANICAL ROOM MEP 1 PLAN
 M3000 | M504 1/4" = 1'-0"



2 DOGHOUSE AT ARCHIVE ROOF
 M3020 | M504 1/4" = 1'-0"



3 SECTION @ DOG HOUSE
 M504 | M504 1/4" = 1'-0"

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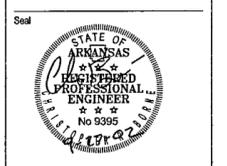
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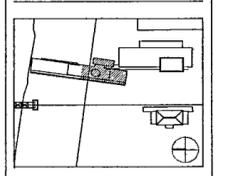
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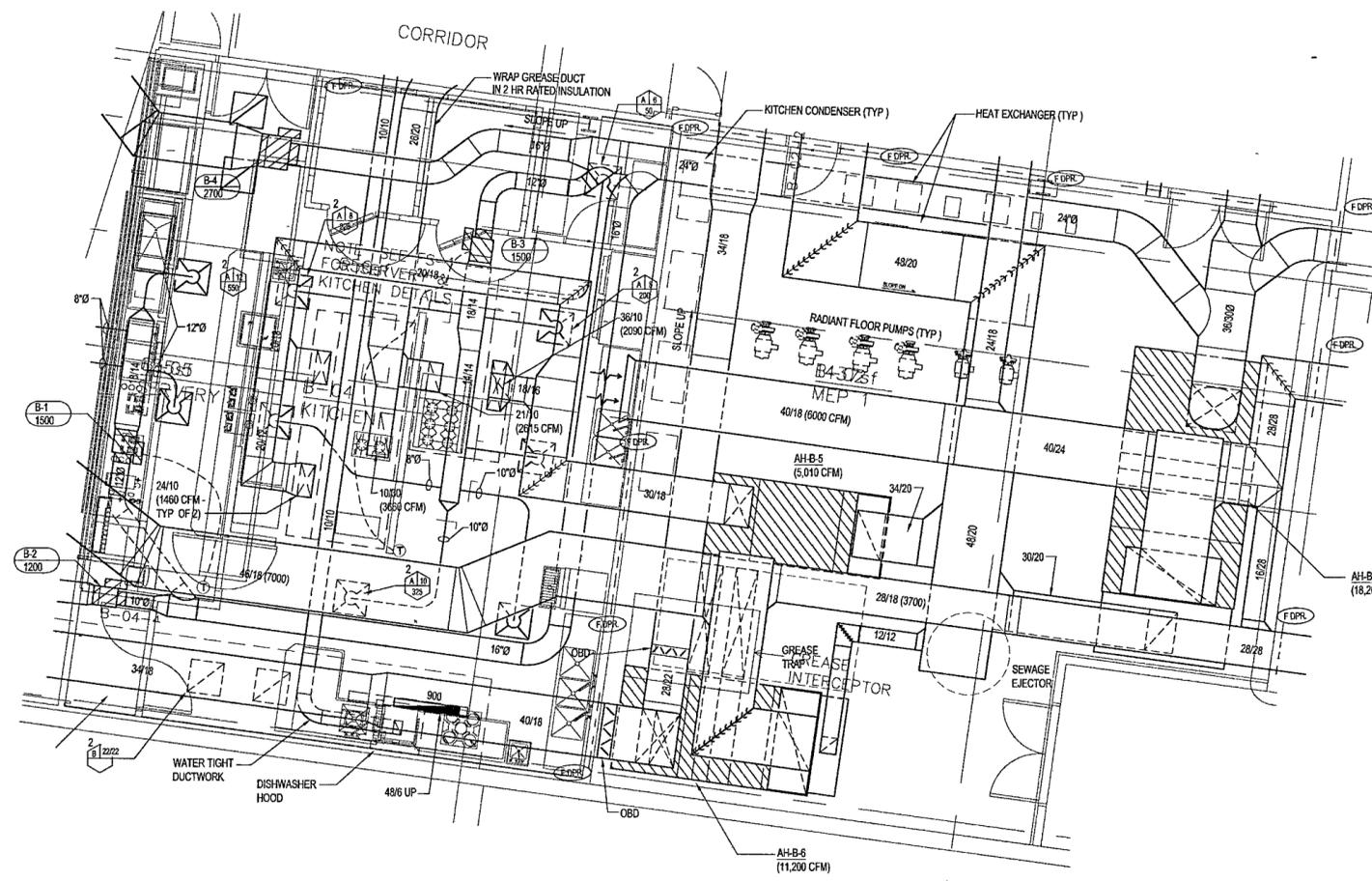
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**HVAC
 ENLARGED PLANS
 AND SECTIONS**

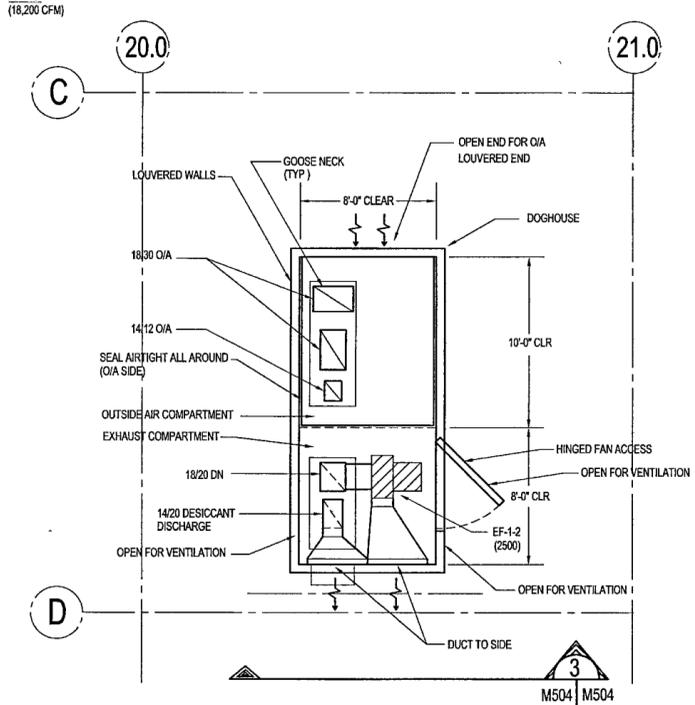
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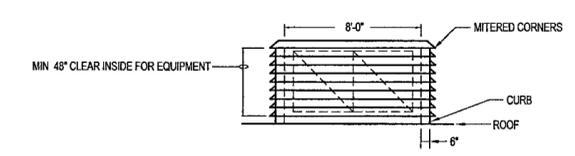
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1 ENLARGED MECHANICAL ROOM MEP 1 PLAN
 M3000 | M504 1/4" = 1'-0" NORTH



2 DOGHOUSE AT ARCHIVE ROOF
 M3020 | M504 1/4" = 1'-0"



3 SECTION @ DOG HOUSE
 M504 | M504 1/4" = 1'-0"

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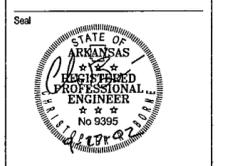
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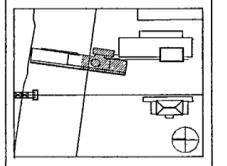
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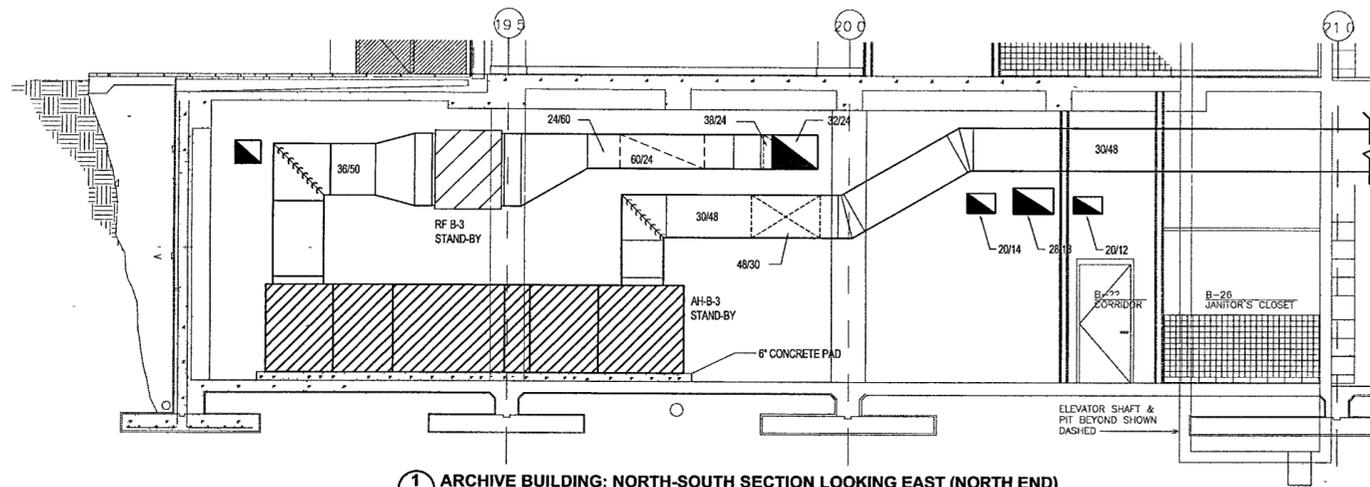
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Sheet No

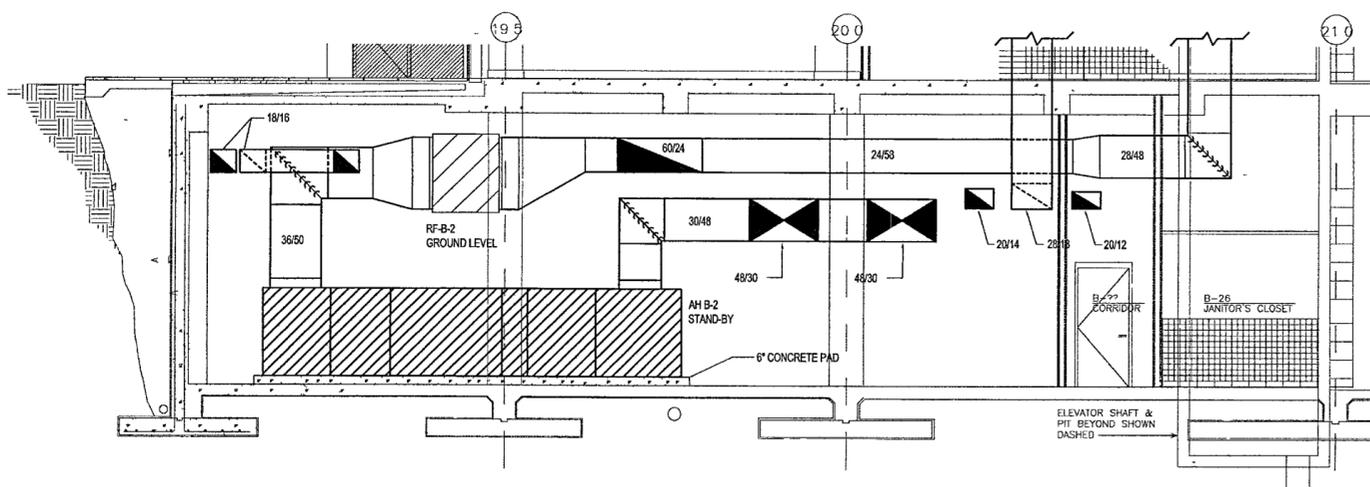
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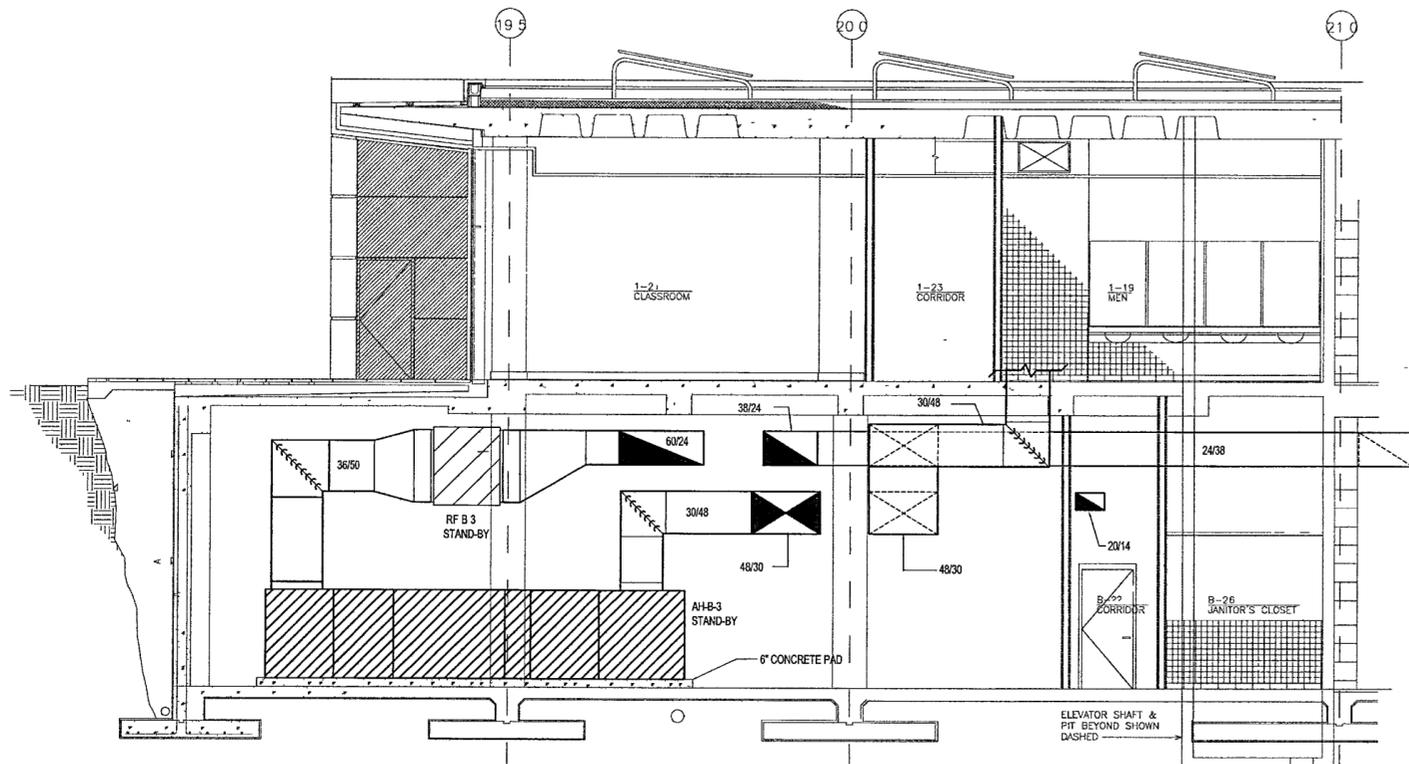
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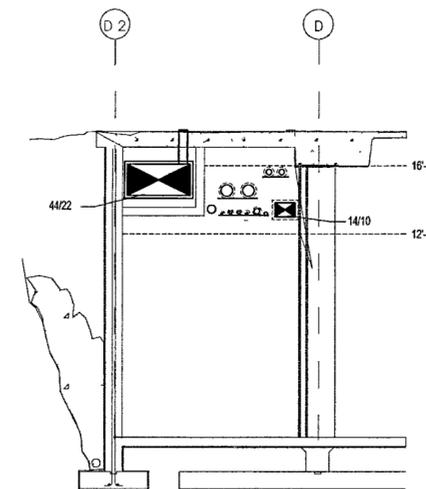
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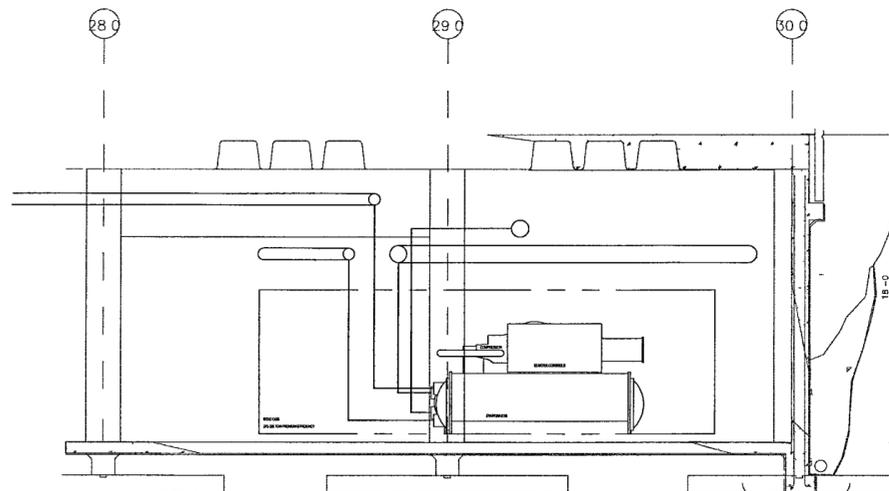
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3 ARCHIVE BUILDING: NORTH-SOUTH SECTION LOOKING EAST (NORTH END)



4 ARCHIVE BUILDING: EAST-WEST SECTION LOOKING NORTH THROUGH CORRIDOR



5 ARCHIVE BUILDING NORTH-SOUTH SECTION LOOKING EAST (SOUTH END)

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501.372.2900

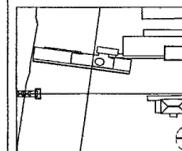
Curriculum Consultant

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125 Fifth Avenue, 9th Floor
New York, New York 10011
212.652.2966

Seal



100% Construction Documents 09/27/02
Issue Date



Job No. POLSHEK & PARTNERS ARCH. 9908
CROMWELL AE 99-114

Scale

Date SEPTEMBER 27, 2002

Title

HVAC SECTIONS

Sheet No.

M505



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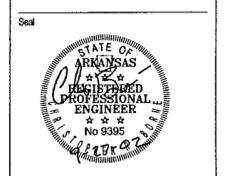
LANDSCAPE ARCHITECTURE, Inc.
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501 374 5610

Structural Engineer
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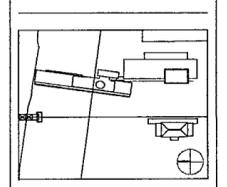
MEP Engineers
FLACK + KURTZ, Inc.
475 Fifth Avenue
New York, New York 10017
212 532 9900

CROMWELL ARCHITECTS ENGINEERS
101 South Spring Street
Little Rock, Arkansas 72201
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New York, New York 10011
212 652 2966



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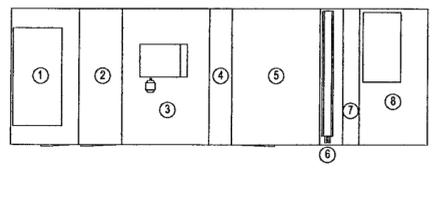
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CROMWELL AE 99-114

Date SEPTEMBER 27, 2002

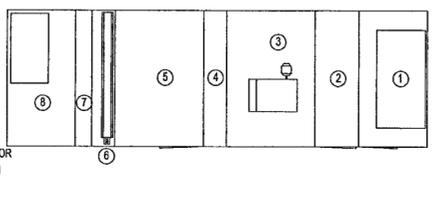
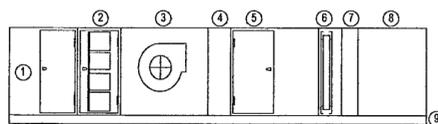
Title **AIR HANDLING
UNIT - PLANS
AND
ELEVATIONS**

Sheet No. **M507**

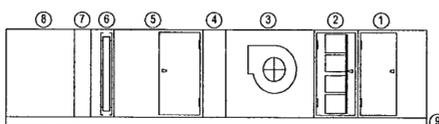
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- AH-B-1, B-3 KEY**
- 1 FILTER MIXING BOX
 - 2 65% FILTER
 - 3 SUPPLY FAN
 - 4 DIFFUSER PLATE
 - 5 CARBON FILTER SECTION
 - 6 COOLING COIL
 - 7 MOISTURE ELIMINATOR
 - 8 DISCHARGE PLENUM
 - 9 6" BASE RAIL

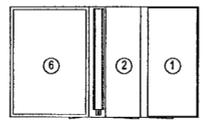


- AH-B-2 KEY**
- 1 FILTER MIXING BOX
 - 2 65% FILTER
 - 3 SUPPLY FAN
 - 4 DIFFUSER PLATE
 - 5 CARBON FILTER SECTION
 - 6 COOLING COIL
 - 7 MOISTURE ELIMINATOR
 - 8 DISCHARGE PLENUM
 - 9 6" BASE RAIL

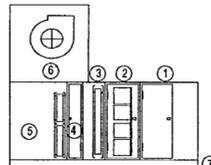


1 AH-B-1, B-3 ELEVATION / PLAN
MS07 MS07 14'-11 1/2"

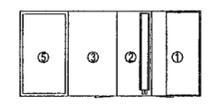
2 AH-B-2 ELEVATION / PLAN
MS07 MS07 14'-11 1/2"



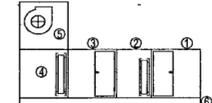
- AH-B-4 KEY**
- 1 FILTER MIXING BOX WITH UP "TRAP" AIR MEASURING STATION
 - 2 65% FILTER
 - 3 COOLING COIL
 - 4 ACCESS
 - 5 VERTICAL HEATING COIL
 - 6 SUPPLY FAN
 - 7 6" BASE RAIL



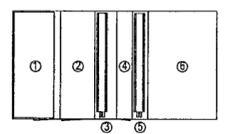
3 AH-B-4 ELEVATION / PLAN
MS07 MS07 14'-11 1/2"



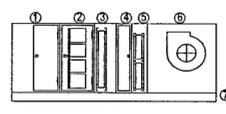
- AH-B-5 KEY**
- 1 FILTER MIXING BOX
 - 2 WING HEATING COIL
 - 3 ACCESS BLANK
 - 4 VERTICAL COOLING COIL
 - 5 SUPPLY FAN
 - 6 6" BASE RAIL



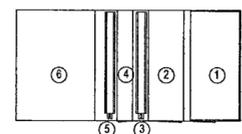
4 AH-B-5 ELEVATION / PLAN
MS07 MS07 14'-11 1/2"



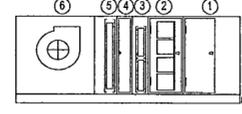
- AH-B-6 KEY**
- 1 FILTER MIXING BOX WITH BACK "TRAP" AIR MEASURING STATION
 - 2 65% FILTER
 - 3 COOLING FAN
 - 4 ACCESS
 - 5 HEATING COIL
 - 6 SUPPLY FAN
 - 7 6" BASE RAIL



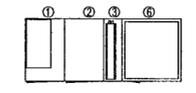
5 AH-B-6 ELEVATION / PLAN
MS07 MS07 14'-11 1/2"



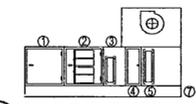
- AH-B-7 KEY**
- 1 FILTER MIXING BOX WITH TOP "TRAP" AIR MEASURING STATION
 - 2 65% FILTER
 - 3 HEATING COIL
 - 4 ACCESS
 - 5 COOLING COIL
 - 6 SUPPLY FAN
 - 7 6" BASE RAIL



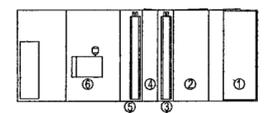
6 AH-B-7 ELEVATION / PLAN
MS07 MS07 14'-11 1/2"



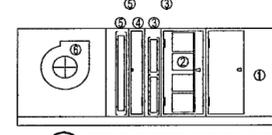
- AH-B-8 KEY**
- 1 FILTER MIXING BOX WITH UP "TRAP" AIR MEASURING STATION
 - 2 WING HEATING COIL
 - 3 65% FILTER
 - 4 COOLING COIL
 - 5 ACCESS
 - 6 VERTICAL HEATING COIL
 - 7 SUPPLY FAN
 - 8 6" BASE RAIL



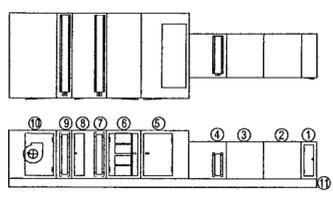
7 AH-B-8 ELEVATION / PLAN
MS07 MS07 14'-11 1/2"



- AH-B-9 KEY**
- 1 FILTER MIXING BOX WITH BACK "TRAP" AIR MEASURING STATION
 - 2 65% FILTER
 - 3 HEATING COIL
 - 4 ACCESS
 - 5 COOLING COIL
 - 6 SUPPLY FAN
 - 7 6" BASE RAIL

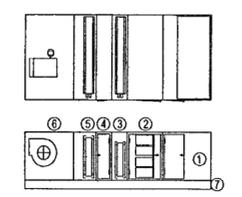


8 AH-B-9 ELEVATION / PLAN
MS07 MS07 14'-11 1/2"



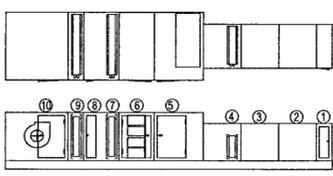
- AH-M-1 KEY**
- 1 FILTER / INLET
 - 2 WING HEATING COIL
 - 3 ACCESS
 - 4 COOLING COIL
 - 5 MIXING BOX WITH BACK "TRAP" AIR MEASURING STATION
 - 6 65% FILTER
 - 7 COOLING COIL
 - 8 ACCESS
 - 9 HEATING COIL
 - 10 SUPPLY FAN
 - 11 6" BASE RAIL

9 AH-M-1 ELEVATION / PLAN
MS07 MS07 14'-11 1/2"



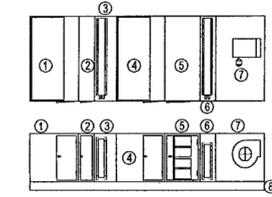
- AH-M-2 KEY**
- 1 MIXING BOX TOP INLET ONLY
 - 2 65% FILTER
 - 3 HEATING COIL
 - 4 ACCESS
 - 5 COOLING COIL
 - 6 SUPPLY FAN
 - 7 6" BASE RAIL

10 AH-M-2 ELEVATION / PLAN
MS07 MS07 14'-11 1/2"



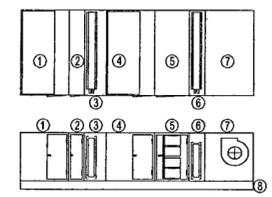
- AH-M-3 KEY**
- 1 FILTER / INLET
 - 2 WING HEATING COIL
 - 3 ACCESS
 - 4 COOLING COIL
 - 5 MIXING BOX WITH BACK "TRAP" AIR MEASURING STATION
 - 6 65% FILTER
 - 7 COOLING COIL
 - 8 ACCESS
 - 9 HEATING COIL
 - 10 SUPPLY FAN
 - 11 6" BASE RAIL

11 AH-M-3 ELEVATION / PLAN
MS07 MS07 14'-11 1/2"



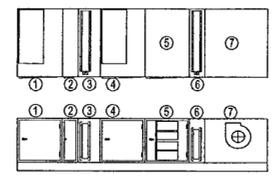
- AH-M-4 KEY**
- 1 MIXING BOX WITH RIGHT SIDE "TRAP" AIR MEASURING STATION
 - 2 FILTER
 - 3 COOLING COIL
 - 4 MIXING SECTION
 - 5 65% FILTER
 - 6 COOLING COIL
 - 7 SUPPLY FAN
 - 8 6" BASE RAIL

12 AH-M-4 ELEVATION / PLAN
MS07 MS07 14'-11 1/2"



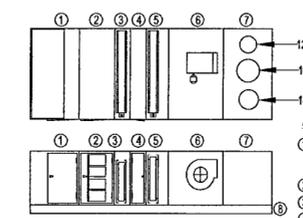
- AH-M-5, M-6 KEY**
- 1 MIXING BOX WITH RIGHT SIDE "TRAP" AIR MEASURING STATION
 - 2 FILTER
 - 3 COOLING COIL
 - 4 MIXING SECTION
 - 5 65% FILTER
 - 6 COOLING COIL
 - 7 SUPPLY FAN
 - 8 6" BASE RAIL

13 AH-M-5,6 ELEVATION / PLAN
MS07 MS07 14'-11 1/2"



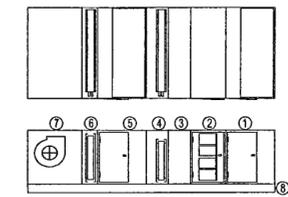
- AH-M-7 KEY**
- 1 MIXING BOX WITH RIGHT SIDE "TRAP" AIR MEASURING STATION
 - 2 FILTER
 - 3 COOLING COIL
 - 4 MIXING SECTION
 - 5 65% FILTER
 - 6 COOLING COIL
 - 7 SUPPLY FAN
 - 8 6" BASE RAIL

14 AH-M-7 ELEVATION / PLAN
MS07 MS07 14'-11 1/2"



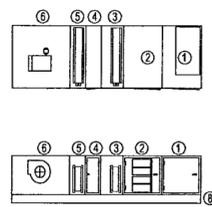
- AH-M-8 KEY**
- 1 FILTER MIXING BOX WITH BACK "TRAP" AIR MEASURING STATION
 - 2 65% FILTER
 - 3 HEATING COIL
 - 4 ACCESS
 - 5 COOLING COIL
 - 6 SUPPLY FAN
 - 7 TOP DISCHARGE PLENUM WITH 12"Ø, 16"Ø, AND 14"Ø BELL MOUTH OUTLETS
 - 8 6" BASE RAIL

15 AH-M-8 ELEVATION / PLAN
MS07 MS07 14'-11 1/2"



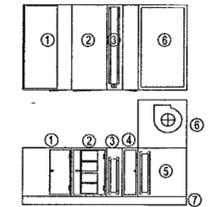
- AH-M-9 KEY**
- 1 FILTER MIXING BOX WITH BACK "TRAP" AIR MEASURING STATION
 - 2 65% FILTER
 - 3 EXTERNAL FACE AND BYPASS
 - 4 COOLING COIL
 - 5 MIXING SECTION
 - 6 HEATING COIL
 - 7 SUPPLY FAN
 - 8 6" BASE RAIL

16 AH-M-9 ELEVATION / PLAN
MS07 MS07 14'-11 1/2"



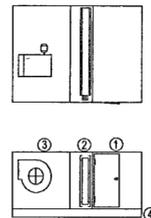
- AH-1-1 KEY**
- 1 FILTER MIXING BOX
 - 2 65% FILTER
 - 3 HEATING COIL
 - 4 ACCESS
 - 5 COOLING COIL
 - 6 SUPPLY FAN
 - 7 6" BASE RAIL SUITABLE FOR SUPPORTING SUSPENDED UNIT

17 AH-1-1 ELEVATION / PLAN
MS07 MS07 14'-11 1/2"



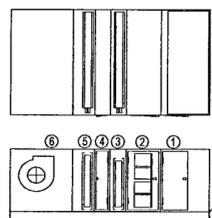
- AH-1-2 KEY**
- 1 FILTER MIXING BOX WITH UP "TRAP" AIR MEASURING STATION
 - 2 65% FILTER
 - 3 COOLING COIL
 - 4 ACCESS
 - 5 VERTICAL HEATING COIL
 - 6 SUPPLY FAN
 - 7 6" BASE RAIL

18 AH-1-2 ELEVATION / PLAN
MS07 MS07 14'-11 1/2"



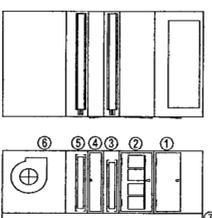
- AH-1-3 KEY**
- 1 FILTER MIXING BOX
 - 2 HEATING COIL
 - 3 SUPPLY FAN
 - 4 6" BASE RAIL SUITABLE FOR SUPPORTING SUSPENDED UNIT

17 AH-1-3 ELEVATION / PLAN
MS07 MS07 14'-11 1/2"



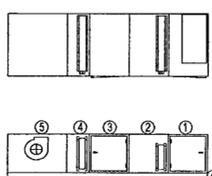
- AH-5-1 KEY**
- 1 FILTER MIXING BOX WITH TOP "TRAP" AIR MEASURING STATION
 - 2 65% FILTER
 - 3 HEATING COIL
 - 4 ACCESS
 - 5 COOLING COIL
 - 6 SUPPLY FAN
 - 7 6" BASE RAIL

20 AH-5-1 ELEVATION / PLAN
MS07 MS07 14'-11 1/2"



- AH-5-2 KEY**
- 1 FILTER MIXING BOX WITH TOP "TRAP" AIR MEASURING STATION
 - 2 65% FILTER
 - 3 HEATING COIL
 - 4 ACCESS
 - 5 COOLING COIL
 - 6 SUPPLY FAN

21 AH-5-2 ELEVATION / PLAN
MS07 MS07 14'-11 1/2"



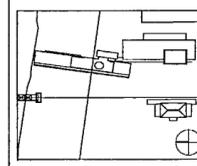
- AH-5-3 KEY**
- 1 FILTER MIXING BOX
 - 2 WING HEATING COIL
 - 3 ACCESS
 - 4 COOLING COIL
 - 5 SUPPLY FAN
 - 6 6" BASE RAIL

22 AH-5-3 ELEVATION / PLAN
MS07 MS07 14'-11 1/2"



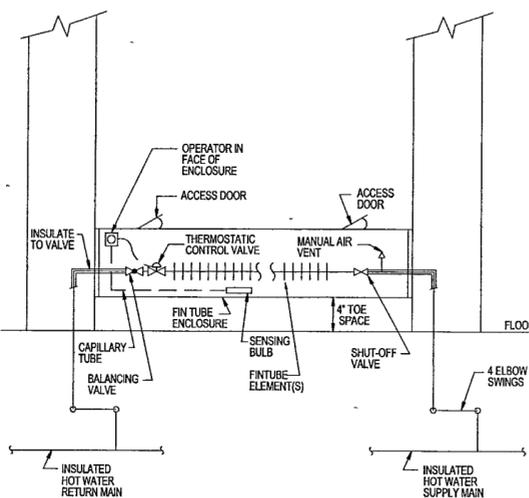
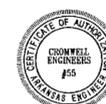


Issue	Date
100% Construction Documents	09/27/02
90% Progress Printing	08/29/02
100% Design Development	03/01/02



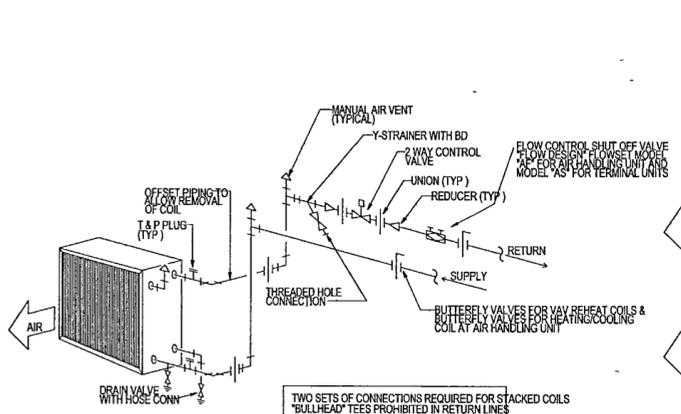
Job No: POLSHEK & PARTNERS ARCH. 99-114
CROMWELL AE 99-114
Scale: NONE
Date: SEPTEMBER 27, 2002
Title: HVAC DETAILS SHEET ONE

Sheet No: **M600**



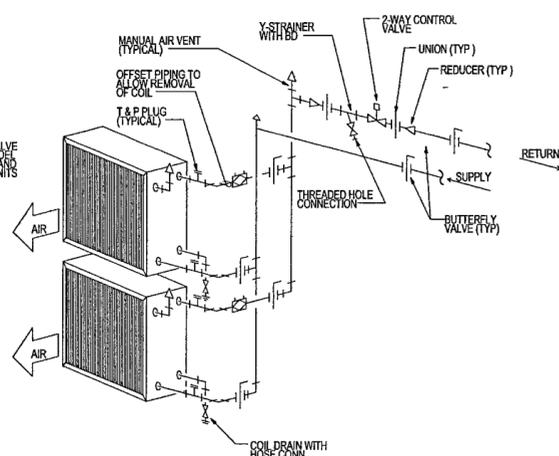
1 HOT WATER FIN TUBE RADIATION PIPING FED FROM BELOW

M-600 | M-600 NO SCALE



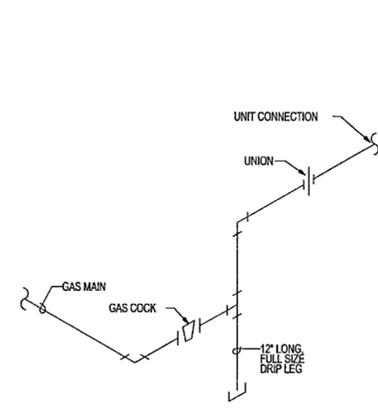
2 HOT OR CHILLED WATER COIL PIPING

M-600 | M-600 NO SCALE



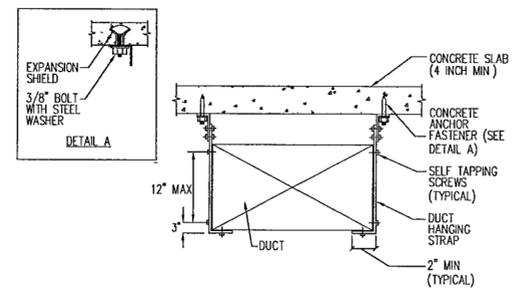
3 MULTIPLE WATER COILS PIPING DIAGRAM

M-600 | M-600 NO SCALE



4 TYPICAL GAS PIPING CONNECTION

M-600 | M-600 NO SCALE



NOTES FOR DUCT HANGING DETAILS

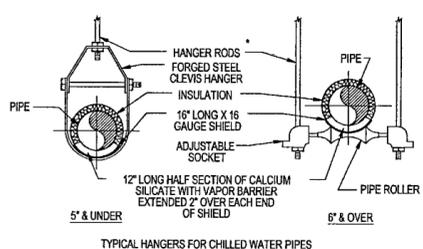
1 DUCT SHALL BE SUSPENDED WITH GALVANIZED BAND IRON STRAPS SECURELY FASTENED TO THE BOTTOM AND SIDE OF THE DUCT STRAPS TO BE SIZED IN ACCORDANCE WITH SMACNA TABLE 4-1 OR ACCORDING TO LOCAL CODES, WHICHEVER IS MORE STRINGENT

CROSS SECTIONAL AREA (SQ FT)	MAX HANGER SPACING (FT)
UP TO 4	8
OVER 4 NOT TO EXCEED 10	6
OVER 10	4

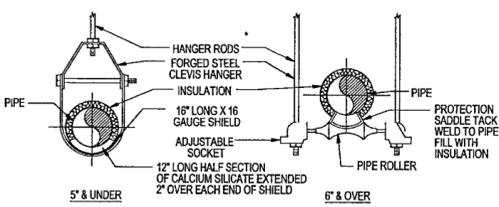
2 DUCTS WIDER THAN 60 INCHES TO BE SUPPORTED BY TRAPEZE ANGLES IN ACCORDANCE WITH SMACNA TABLE 4-3

5 DUCT HANGING DETAIL FOR CONCRETE SLAB

M-600 | M-600 NO SCALE



TYPICAL HANGERS FOR CHILLED WATER PIPES

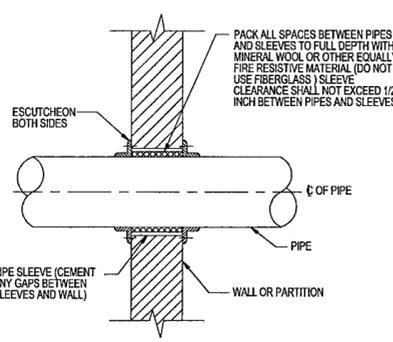


TYPICAL HANGERS FOR STEAM AND HOT WATER PIPES

NOTE: SEE STRUCTURE ATTACHMENT DETAILS FOR METHODS OF SECURING HANGERS

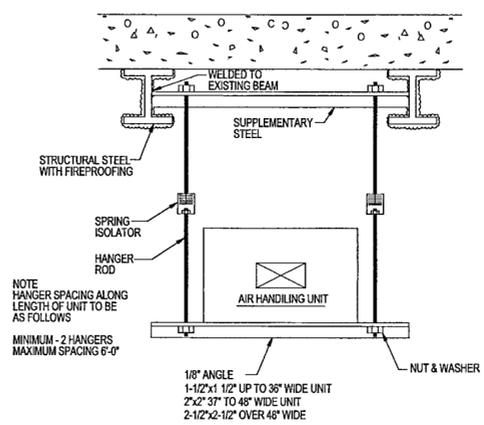
6 STEAM, HOT AND CHILLED WATER PIPE HANGER (SINGLE PIPES)

M-600 | M-600 NO SCALE



7 PIPING PIERCING FIRE RATED PARTITIONS & WALLS

M-600 | M-600 NO SCALE



8 EQUIPMENT SUSPENDED FROM STRUCTURAL STEEL

M-600 | M-600 NO SCALE

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617.661.0070

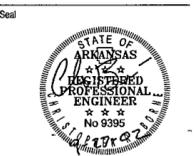
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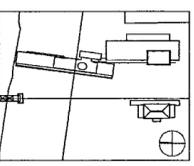
MEP Engineers
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CROMWELL ARCHITECTS ENGINEERS
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Curtainwall Consultant
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100% Construction Documents	06/27/02
90% Progress Printing	06/30/02
100% Design Development	03/01/02
Issue	Date



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CROMWELL AE 99-114

Scale: NONE

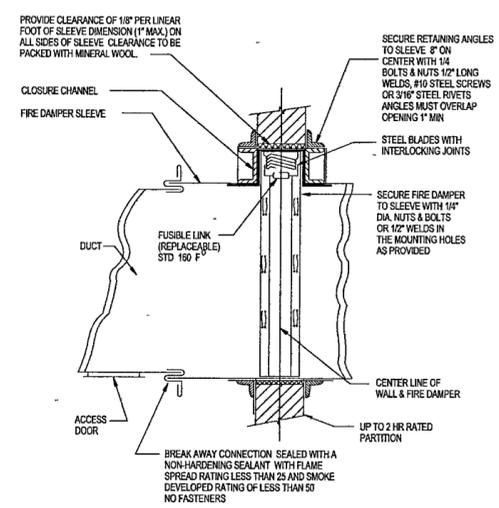
Date: SEPTEMBER 27, 2002

Title: HVAC DETAILS SHEET TWO

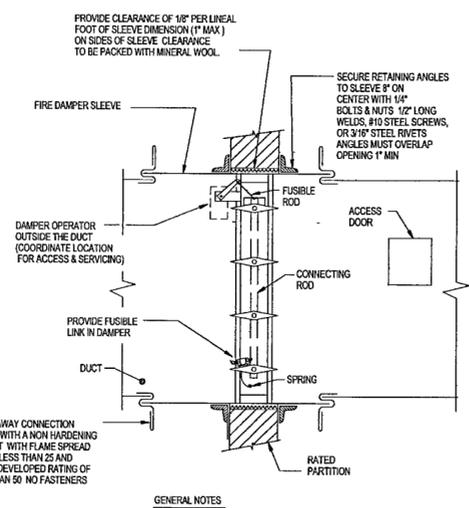
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M601

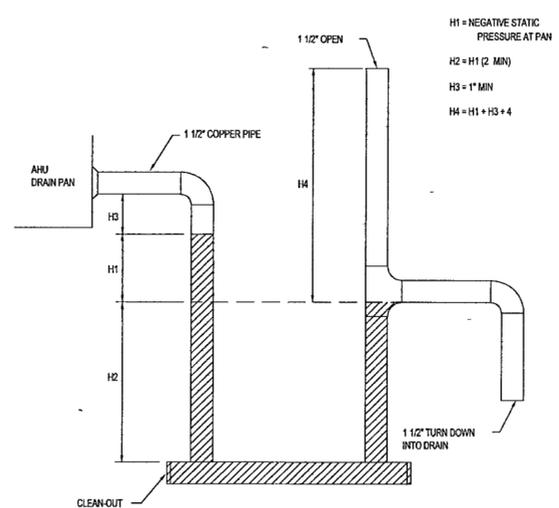
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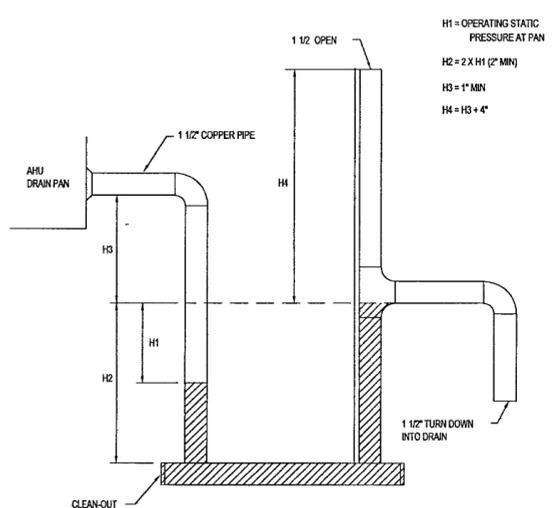
- GENERAL NOTES**
- 1 DETAILS SHOWN ARE FOR COMBINATION FIRE SMOKE DAMPERS IN HORIZONTAL DUCTWORK. FOR DAMPERS IN VERTICAL DUCTWORK, DETAIL IS SIMILAR.
 - 2 ACCESS DOOR IS SHOWN IN SIDE OF DUCT
 - 3 THIS DETAIL IS FOR GUIDE ONLY. INSTALL DAMPER IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. MANUFACTURER'S INSTRUCTIONS TO COMPLY WITH UL LISTING.
 - 4 FIRE DAMPERS TO BE LABELED IN ACCORDANCE WITH UL 555-1995



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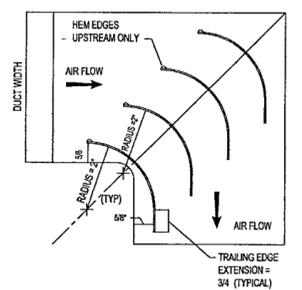


NOTE: ENSURE ALL COOLING COILS ARE SUFFICIENTLY ELEVATED TO PROVIDE FULL TRAP DEPTH ABOVE FINISHED FLOOR SLAB



1 SHUTTER TYPE SPRING LOADED FIRE DAMPER (1-1/2 HOUR RATING)

M-601 | M-601 NO SCALE



- NOTES**
- 1 ALL TURNING VANES TO BE MADE OF 18 GAUGE GALV. SHEET METAL. 2\"/>
 - 2 EDGES OF VANES SHALL BE CLEANLY SHEARED WITH NO BURRS. ETC
 - 3 VANES SHALL BE SECURELY ATTACHED TO RUNNERS. AND RUNNERS TO DUCT SIDES, AS SHOWN FOR DOUBLE THICKNESS VANES IN SMACNA HIGH VELOCITY MANUAL.

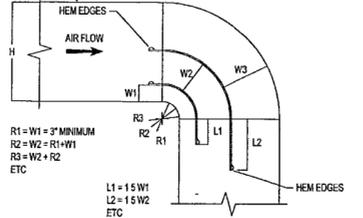
TURNING VANES FOR SQUARE ELBOWS IN HIGH VELOCITY DUCTWORK OF MAXIMUM 36\"/>

5 TURNING VANES DETAIL

M-601 | M-601 NO SCALE

2 COMBINATION FIRE AND SMOKE DAMPER WITH FUSIBLE LINK

M-601 | M-601 NO SCALE



- NOTES**
- 1 RADIUS ELBOWS, WHERE POSSIBLE SHOULD HAVE THROAT RADIUS AT LEAST EQUAL TO DUCT WIDTH W
 - 2 ALL RADIUS ELBOWS WITH A THROAT RADIUS LESS THAN THE DUCT WIDTH ARE TO BE FABRICATED WITH SPLITTERS AS SHOWN IN THIS DRAWING WHEN THROAT IS SQUARE, W1 IS TO BE 3 INCHES, W2 THEN 6\"/>
 - 3 WHERE VANE ELBOWS ARE REQUIRED FOR HIGH VELOCITY (>2000 FPM) SYSTEMS DUE TO SPACE CONDITIONS THIS IS ONE APPROVED TYPE OF ELBOW. DO NOT USE DOUBLE THICKNESS TURNING VANES FOR THIS APPLICATION
 - 4 NUMBER OF SPLITTERS TO SUIT TOTAL DUCT WIDTH

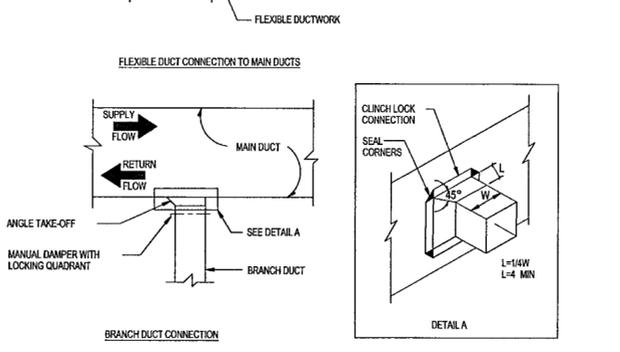
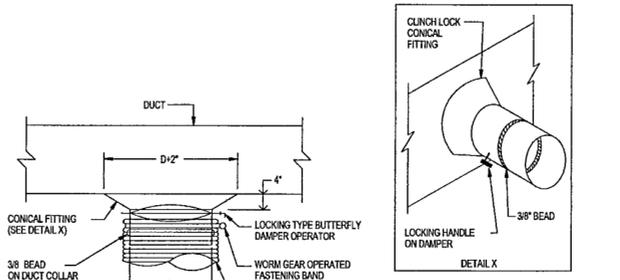
ELBOWS TO BE USED FOR HIGH VELOCITY DUCTWORK ABOVE 36\"/>

6 TURNING VANES DETAIL

M-601 | M-601 NO SCALE

3 DRAW-THROUGH UNIT DRAIN TRAP

M-601 | M-601 NO SCALE

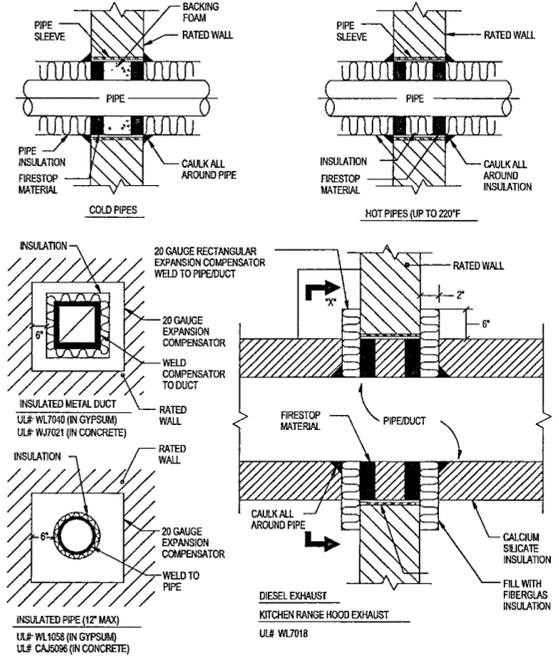


7 LOW PRESSURE BRANCH DUCT CONNECTIONS

M-601 | M-601 NO SCALE

4 BLOW-THROUGH UNIT DRAIN TRAP

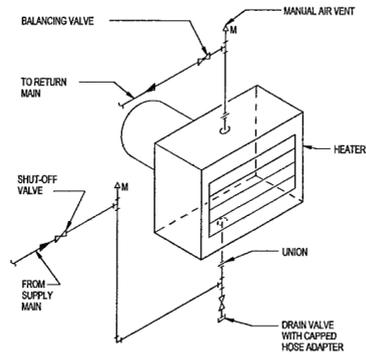
M-601 | M-601 NO SCALE



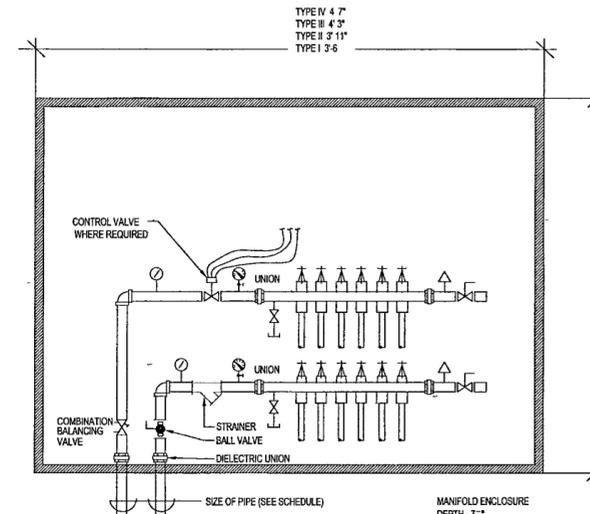
8 PENETRATIONS THRU RATED WALLS

M-601 | M-601 NO SCALE



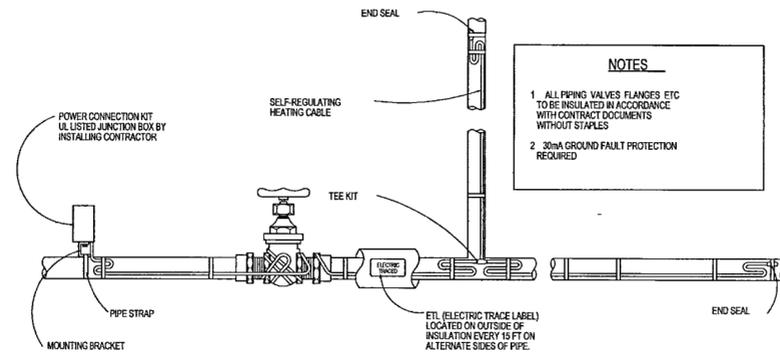


1 HOT WATER UNIT HEATER PIPING
M-602 | M-602 NO SCALE



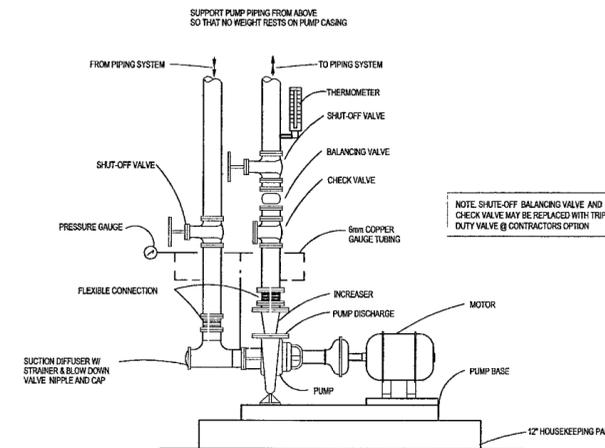
NOTE
1 BRACKETS TO SUPPORT PIPES SHALL BE INSTALLED IN REAR WALL OF BOX.
2. MANIFOLD BOX SHALL BE FURNISH BY OTHERS AND INSTALLED BY MECHANICAL CONTRACTOR.

2 MANIFOLD DETAIL
M-602 | M-602 NO SCALE



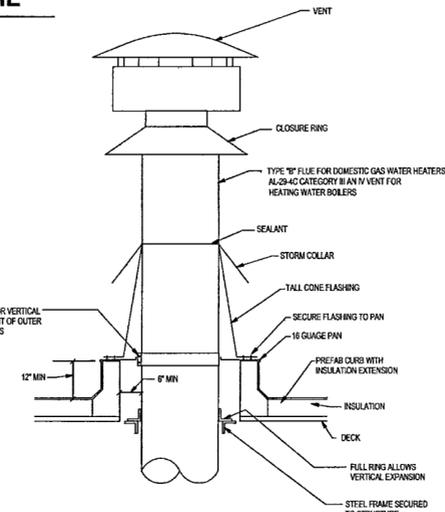
NOTES
1 ALL PIPING, VALVES, FLANGES, ETC TO BE INSULATED IN ACCORDANCE WITH CONTRACT DOCUMENTS WITHOUT STAPLES
2 30mA GROUND FAULT PROTECTION REQUIRED

3 TYPICAL PIPING HEAT TRACE
M-602 | M-602 NO SCALE

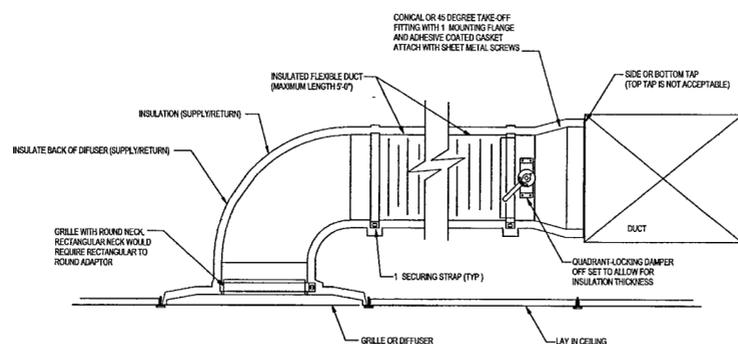


NOTE SHUT-OFF BALANCING VALVE AND CHECK VALVE MAY BE REPLACED WITH TRIPLE DUTY VALVE @ CONTRACTORS OPTION

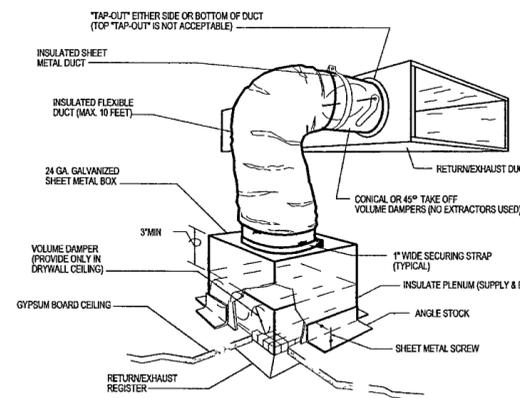
4 BASE MOUNTED PUMP DETAIL
M-602 | M-602 NO SCALE



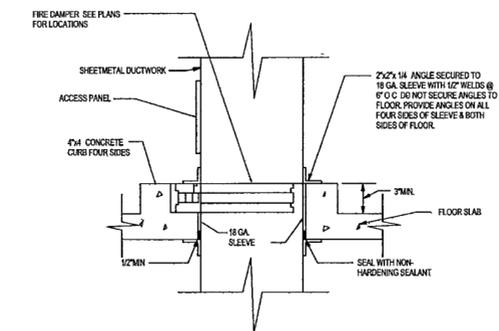
5 BOILER STACK DETAIL
M-602 | M-602 NO SCALE



6 TYPICAL DUCT BRANCH
M-602 | M-602 NO SCALE



7 GRILLE CONNECTION AT GYPSUM BOARD CEILING
M-602 | M-602 NO SCALE



8 DUCT PENETRATION THRU FIRE RATED FLOOR
M-602 | M-602 NO SCALE

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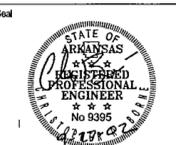
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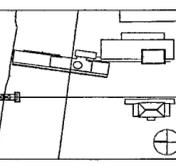
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Issue	Date
100% Construction Documents	09/27/02
90% Progress Printing	08/20/02
100% Design Development	03/01/02



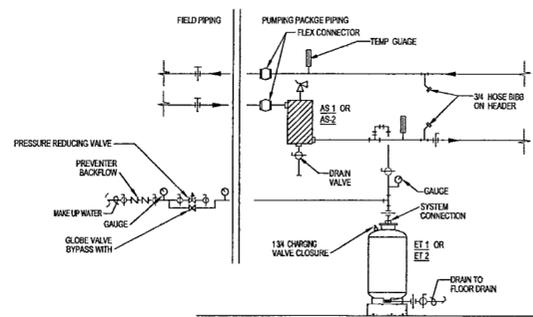
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CROMWELL AE 99-114

Scale NONE
Date SEPTEMBER 27 2002

Title
**HVAC DETAILS
SHEET THREE**

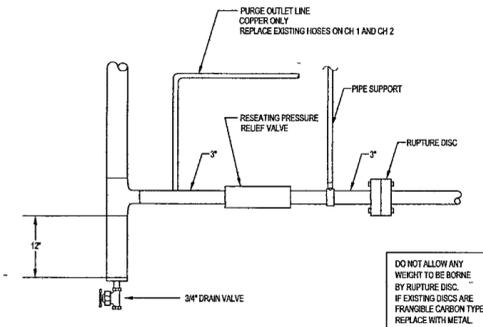
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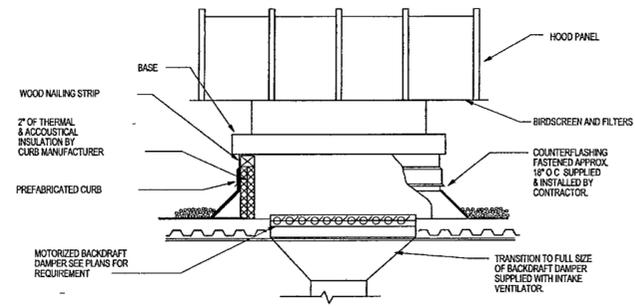
NOTE:
REFER TO EXPANSION TANK SCHEDULE
FOR SYSTEM PRESSURE SETPOINTS

1 MAKEUP WATER
M603 | M603 NO SCALE
(CHILLED WATER & HEATING WATER)

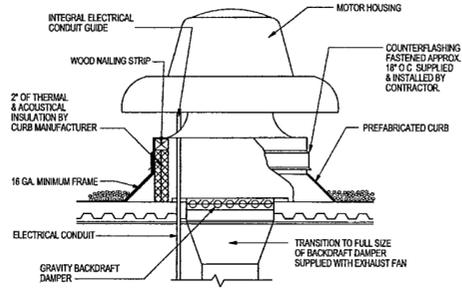


DO NOT ALLOW ANY
WEIGHT TO BE BORNE
BY RUPTURE DISC.
IF EXISTING DISCS ARE
FRANSE CARBON TYPE
REPLACE WITH METAL.

**2 RELIEF AND PURGE PIPING
FOR CENTRIFUGAL CHILLER**
M603 | M603 NO SCALE

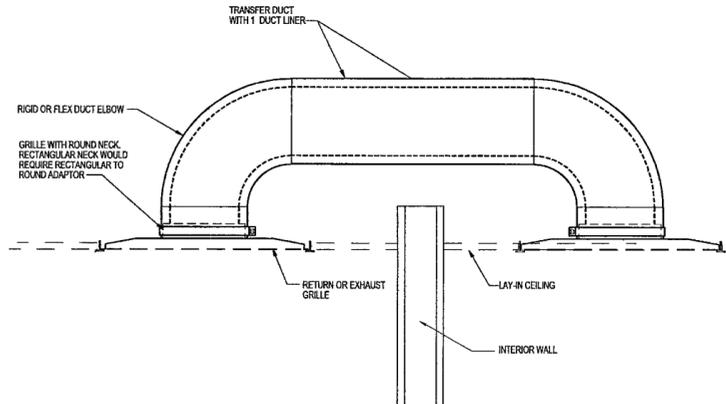


3 INTAKE VENTILATOR
M603 | M603 NO SCALE

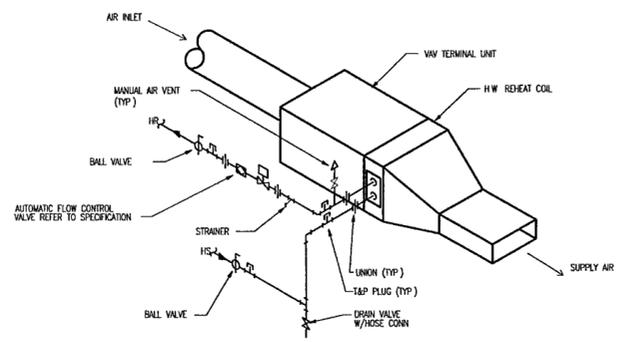


NOTE:
CURB DISCONNECT SWITCH BACKDRAFT DAMPER, INSULATION
& SEAL STRIP SHALL BE PROVIDED BY FAN MANUFACTURER.

4 ROOF MOUNTED EXHAUST FAN
M603 | M603 NO SCALE

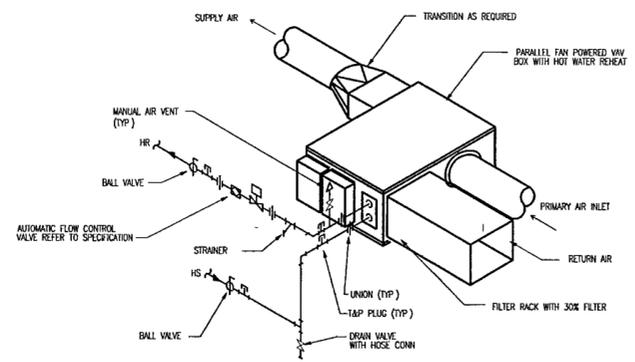


5 TYPICAL TRANSFER DUCT
M603 | M603 NO SCALE



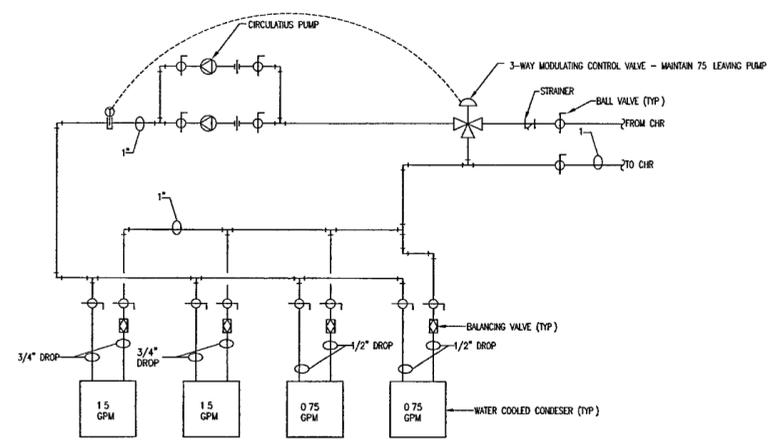
NOTE:
PROVIDE FLEX CONNECTION AT
DISCHARGE OF TERMINAL UNIT

6 VAV TERMINAL UNIT
M603 | M603 NO SCALE



NOTE:
PROVIDE FLEX CONNECTION AT
DISCHARGE OF TERMINAL UNIT

7 FAN POWERED VAV
M603 | M603 NO SCALE



8 KITCHEN CONDENSER PIPING SCHEMATIC
M603 | M603 NO SCALE

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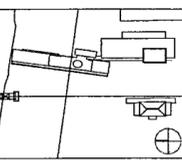
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Issue	Date



Job No: POLSHEK & PARTNERS ARCH. 9908
CROMWELL AE 99-114

Scale: NONE

Date: SEPTEMBER 27, 2002

Title:

HVAC DETAILS
SHEET FOUR

Sheet No: M603



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AIR HANDLING UNIT												
MARK	SERVES	LOCATION	TYPE	AIR QUANTITIES CFM			SUPPLY FAN CHARACTERISTICS			COILS		REMARKS
				SUPPLY MAX	SUPPLY MIN	OUTSIDE MIN	MIN MARK DIA IN	ARR	V-#HZ	HEATING	COOLING	
AH-B-1	DOCUMENT STORAGE	BASEMENT	CV	16000	N/A	800	SF-B-1	BLOW THRU	4603	HC-B-1	CC-B-1	TRANE MCC
AH-B-2	MUSEUM STORAGE	BASEMENT	CV	16000	N/A	1900	SF-B-2	BLOW THRU	4603	HC-B-2	CC-B-2	TRANE MCC
AH-B-3	STANDBY	BASEMENT	CV	16000	N/A	1900	SF-B-3	BLOW THRU	4603	HC-B-3	CC-B-3	TRANE MCC
AH-B-4	G. CORRIDOR	BASEMENT	CV	13200	N/A	800	SF-B-4	DRAW THRU	4603	HC-B-4	CC-B-4	TRANE MCC
AH-B-5	HOOD MAKE-UP	BASEMENT	CV	5010	N/A	5010	SF-B-5	DRAW THRU	4603	HC-B-5	CC-B-5	TRANE MCC
AH-B-6	ENTRY LOBBY	BASEMENT	CV	11 200	N/A	500	SF-B-6	DRAW THRU	4603	HC-B-6	CC-B-6	TRANE MCC
AH-B-7	ARCHIVE OFFICES	BASEMENT	VAV	13500		3200	SF-B-7	DRAW THRU	4603	HC-B-7	CC-B-7	TRANE MCC
AH-B-8	EXHIBIT ROOMS	BASEMENT	VAV	2600		425	SF-B-8	DRAW THRU	4603	HC-B-8	CC-B-8	TRANE MCC
AH-B-9	NORTH END SPACES	BASEMENT	VAV	18200		4600	SF-B-9	DRAW THRU	4603	HC-B-9	CC-B-9	TRANE MCC
AH-B-10	MEP-4	BASEMENT	CV	3200	3200	500	SF-B-10	DRAW THRU	4603	HC-1-10	CC-1-10	TRANE MCC
AH-1-1	PRODUCTION STUDIO	FIRST FLOOR	CV	2400	2400	500		DRAW THRU	4603	HC-1-1	CC-1-1	TRANE MCC
AH-1-2	CLASSROOMS	FIRST FLOOR	VAV	3800		800		DRAW THRU	4603	HC-1-2	CC-1-2	TRANE MCC
AH-1-3	HOOD MAKE-UP	FIRST FLOOR	CV	8750	8750	8750		DRAW THRU	4603	HC-1-3	N/A	TRANE MCC
AH-M-1	MUSEUM	2ND LEVEL	CV	4540	4540	1000		DRAW THRU	4603	HC-M-1	CC-M-1	TRANE MCC
AH-M-2	MUSEUM	2ND LEVEL	CV	4515	4515	0		DRAW THRU	4603	HC-M-2	CC-M-2	TRANE MCC
AH-M-3	MUSEUM	2ND LEVEL	CV	3605	3605	0		DRAW THRU	4603	HC-M-3	CC-M-3	TRANE MCC
AH-M-4	MUSEUM	2ND LEVEL	CV	4825	4825	1000		DRAW THRU	4603	HC-M-4	CC-M-4	TRANE MCC
AH-M-5	MUSEUM	2ND LEVEL	CV	4500	4500	550		DRAW THRU	4603	HC-M-5	CC-M-5	TRANE MCC
AH-M-6	MUSEUM	2ND LEVEL	CV	4500	4500	500		DRAW THRU	4603	HC-M-6	CC-M-6	TRANE MCC
AH-M-7	MUSEUM	2ND LEVEL	CV	3500	3500	400		DRAW THRU	4603	HC-M-7	CC-M-7	TRANE MCC
AH-M-8	MUSEUM	2ND LEVEL	VAV	6100		1600		DRAW THRU	4603	HC-M-8	CC-M-8	TRANE MCC
AH-M-9	GREAT HALL	2ND LEVEL	CV	7000	7000	2400		DRAW THRU	4603	HC-M-9	CC-M-9	TRANE MCC
AH-5-1	5TH FLOOR	2ND LEVEL	VAV	8800		900		DRAW THRU	4603	HC-5-1	CC-5-1	TRANE MCC
AH-5-2	CORE LOBBIES	2ND LEVEL	VAV	8200		1100		DRAW THRU	4603	HC-5-2	CC-5-2	TRANE MCC
AH-5-3	HOOD MAKE-UP	2ND LEVEL	CV	2720	2720	2720		DRAW THRU	4603	HC-5-3	CC-5-3	TRANE MCC

HOT WATER HEATING COILS/PREHEAT COILS															
MARK	LOCATION	CFM	FACE VEL	ROWS	FPF	CAPACITY MBH	EAT F"	LAT F"	MAX APD IN H2O	EWT	LWT	GPM	MAX WPD FT H2O	TURBS	REFERENCE PRODUCT
HC-B-2	AH-B-2 OIA DUCT	2400	534	2		143.2	55	100	0.25	180	140	8	10		TRANE "TT" ① ④
HC-B-3	AH-B-3 OIA DUCT	2400	534	2		143.2	55	100	0.25	180	140	8	10		TRANE "TT" ① ④
HC-B-4	AH-B-4	13200	665	1		429.5	60	90	0.25	180	140	22.0	10		TRANE
HC-B-5	AH-B-5	5010	691	4		394.5	3	75.6	0.85	180	140	20.0	10		TRANE ②
HC-B-6	AH-B-6	11,200	679	1		364.4	60	90	0.20	180	140	19.0	10		TRANE
HC-B-7	AH-B-7	13,500	681	1		292.8	40	60	0.20	180	140	15.0	10		TRANE
HC-B-8	AH-B-8	2600	595	1		56.4	40	60	0.20	180	140	3.0	10		TRANE
HC-B-9	AH-B-9	18 200	605	1		394.8	40	60	0.20	180	140	20.0	10		TRANE
HC-B-10	AH-B-10	3200	532	1		104.1	55	85	0.20	180	140	6.0	10		TRANE
HC-1-1	AH-1-1	2400	549	1		91.1	50	85	0.20	180	140	5.0	10		TRANE
HC-1-2	AH-1-2	3800	456	1		63.9	40	60	0.20	180	140	5.0	10		TRANE
HC-1-3	AH-1-3	8750	615	2		683.2	0	72	0.30	180	140	35.0	10		TRANE
HC-M-1a	AH-M-1	1000	490	2		52.3	0	48	0.20	180	140	14.0	10		TRANE ②
HC-M-1b	AH-M-1	4540	484	1		187.1	47	85	0.20	180	140	13.0	10		TRANE
HC-M-2	AH-M-2	4515							0.25	180	140	7.0	10		TRANE
HC-M-3a	AH-M-3	500	545	2		26.5	0	48	0.20	180	140	7.0	10		TRANE ②
HC-M-3b	AH-M-3	3605	493	1		148.6	47	85	0.20	180	140	10.0	10		TRANE
HC-M-4	AH-M-4	4825	579	1		209.3	45	85	0.20	180	140	21.0	10		TRANE
HC-M-5	AH-M-5	4500	540	1		195.2	45	85	0.20	180	140	10.0	10		TRANE
HC-M-6	AH-M-6	4500	540	1		195.2	45	85	0.20	180	140	10.0	10		TRANE
HC-M-7	AH-M-7	3500	539	1		141.8	45	85	0.20	180	140	8.0	10		TRANE
HC-M-8	AH-M-8	6100	542	1		132.3	40	60	0.20	180	140	18.0	10		TRANE
HC-M-9	AH-M-9	7000	569	2		303.7	45	85	0.20	180	140	16.0	10		TRANE
HC-5-1	AH-5-1	8800	600	1		190.9	40	60	0.20	180	140	10.0	10		TRANE
HC-5-2	AH-5-2	8200	559	1		177.9	40	60	0.20	180	140	9.0	10		TRANE
HC-5-3	AH-5-3	2720	657	4		216.0	3	76.2	0.85	180	140	13.0	10		TRANE ②

① LOCATE IN SUPPLY DUCT FROM DESICCANT UNIT
 ② WING COIL
 ③ 18" HIGH x 30" FINNED LENGTH
 ④ 18" HIGH x 36" FINNED LENGTH

CHILLED WATER COOLING COILS																		
MARK	LOCATION	CFM	FACE VEL	ROWS	FPF	TOTAL MBH	SENS MBH	EDB	EWB	LDB	LWB	MAX APD	EWT	LWT	GPM	MAX WPD	TURBS	REFERENCE PRODUCT
CC-B-2	AH-B-2	16000	469	2		262.1	262.1	75	56	60	49.7	0.20	42	56	44.0	10		TRANE
CC-B-3	AH-B-3	16000	469	2		262.1	266.1	75	56	60	49.7	0.20	42	56	44.0	10		TRANE
CC-B-4	AH-B-4	13200	455	6		385.2	319.6	77	64	55	54.2	0.65	42	56	55.0	10		TRANE
CC-B-5	AH-B-5	5010	520	6		388.1	261.2	102	77	55	54.8	1.0	42	56	56.0	15		TRANE
CC-B-6	AH-B-6	11,200	539	6		371.1	295.8	77	64	53	52.7	0.85	42	56	53.0	10		TRANE
CC-B-7	AH-B-7	13,500	554	6		384.4	431.6	81	66	53	52.7	1.0	42	56	84.0	10		TRANE
CC-B-8	AH-B-8	2600	444	6		104.4	77.4	80	66	53	52.6	1.0	42	56	15.0	10		TRANE
CC-B-9	AH-B-9	18 200	533	6		792.9	381.8	82	67	53	52.6	0.85	42	56	114.0	15		TRANE
CC-B-10	AH-B-10	3200	547	6		124.8	95.2	82	67	55	54.3	1.0	42	56	18.1	20		TRANE
CC-1-1	AH-1-1	2400	410	8		96.9	74.0	81	66	53	52.5	0.75	42	56	14.0	20		TRANE
CC-1-2	AH-1-2	3800	394	6		150.2	112.2	81	66	53	52.8	0.75	42	56	22.0	20		TRANE
CC-M-1a	AH-M-1	1000	364	8		97.7	33.6	97	77	47.0	46.9	0.85	42	56	14.0	10		TRANE
CC-M-1b	AH-M-1	4540	344	4		120.0	120.0	80.2	58.1	56.0	48.0	0.5	42	56	18.0	10		TRANE
CC-M-2	AH-M-2	4515	468	6		205.1	164.0	85	67	52	51.9	0.8	42	56	30.0	10		TRANE
CC-M-3a	AH-M-3	500	273	8		48.8	27.8	97	77	47.0	46.9	0.4	42	56	7.0	10		TRANE
CC-M-3b	AH-M-3	3605	478	4		107.7	107.7	83.3	39.3	36.0	48.0	0.4	42	56	16.0	10		TRANE
CC-M-4	AH-M-4	3675	381	8		211.5	172.02	89.6	63	47.0	46.9	0.75	42	56	31.0	10		TRANE
CC-M-5	AH-M-5	3900	404	8		196.4	172.8	87.4	64.9	47.0	46.9	0.85	42	56	28.0	10		TRANE
CC-M-6	AH-M-6	3900	404	8		196.4	172.8	87.4	64.9	47.0	46.9	0.85	42	56	28.0	10		TRANE
CC-M-7	AH-M-7	3050	404	8		152.0	134.6	87.2	64.8	47.0	46.9	0.75	42	56	22.0	10		TRANE
CC-M-8	AH-M-8	6100	495	6		276.5	251.1	89.5	66.8	52	51.6	0.75	42	56	40.0	10		TRANE
CC-M-9	AH-M-9	7000	569	6		356.0	281.2	92.4	71.0	56	55.3	0.90	42	56	51.0	10		TRANE
CC-5-1	AH-5-1	8800	524	6		319.7	242.3	78	65	53	52.8	0.85	42	56	46.0	10		TRANE
CC-5-2	AH-5-2	8200	488	6		298.9	234.7	79	65	53	52.7	0.75	42	56	43.0	10		TRANE
CC-5-3	AH-5-3	2720	465	6		209.7	141.8	102	77	53	54.9	0.90	42	56	30.0	10		TRANE

EXHAUST / RETURN / SUPPLY / FANS																					
MARK	SERVICE	LOCATION	CFM	ESP IN	RPM	HP WATT	BHP	VOLTS φ	DRIVE	TYPE	CONTROLS	SONES	MAX db AT OCTAVE BAND								REFERENCE PRODUCT
													63	125	250	500	1000	2000	4000	8000	
SF-B-11	SUPPLY	MEP4	4500	0.75	1143	1.5	1.3	460/3	BELT	①		18.8							COOK 195 SQN-B		
RF-B-1	RETURN	BASEMENT	15200	1.0	625	7.5	5.6	460/3	BELT	①		24	86	89	88	85	80	76	71	65	COOK 365 SQN-B
RF-B-2	RETURN	BASEMENT	14100	1.75	853	10	8.2	460/3	BELT	①		24	91	92	90	88	87	80	76	71	COOK 365 SQN-B
RF-B-3	RETURN	BASEMENT	14100	1.75	853	10	8.2	460/3	BELT	①		31	91	92	90	88	87	80	76	71	COOK 365 SQN-B
RF-B-7	RETURN	BASEMENT	10 300	0.75	721	5	2.89	460/3	BELT	①		25	85	93	88	80	77	79	69	64	COOK 300 SQN-B
RF-M-1	RETURN	SECOND FLOOR	3540	0.75	1493	1.5	1.24	460/3	BELT	③		22	81	83	87						

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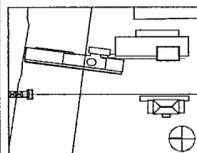
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CROMWELL AE 99-114

Scale: NONE

Date: SEPTEMBER 27, 2002

Title:

**HVAC SCHEDULES
SHEET TWO**

Sheet No.

M701

FOR OFFICIAL USE ONLY

COOLING TOWER															
MARK	SERVICES	LOCATION	AMB WBS OF	ENT OF	LWT OF	GPM TOTAL CELL	BASIN HEAT/CELL				FAN MOTOR/CELL				REFERENCE PRODUCT
							# MAX WTR	VOLTS/Ø	HP	RPM	VOLTS/Ø	VFD	DRIVE		
CT-1,2,3	CHILLERS	MECHANICAL YARD	80	95	85	900	(3)15	460/3	20	1800	460/3	YES	GEAR	MARLEY MODEL NC8305F ①	

① RIGHT ANGLE SUMP OUTLET, INLET BALANCING VALVE ② HANDRAILS & LADDERS WITH 5 FT EXTENSION WITH SAFETY CAGE
ACCESS PLATFORM INTERIOR MAINT WALKWAY, SAFETY VIBRATION CUTOFF SWITCH BASIN EQUALIZER FLUMES,
ISOLATION, WEIR GATES

UNIT HEATER										
MARK	SERVICES	MBH CAP	GPM	MAX WPD FT	CFM	HP WATT	VOLTS/Ø	ENT/LWT F	EXIT/LAT F	REFERENCE PRODUCT
UH-1	SEE PLANS	28.1	1.5	5.0	1214	1/8	120/1Ø	180/140	60/61.3	TRANE UHSA090S
UH-2	SEE PLANS	49.5	2.5	5.0	1760	1/6	120/1Ø	180/140	60/65.9	TRANE UHSA126S

PACKAGED DESICCANT DEHUMIDIFICATION UNIT (CARGOCAIRE AS STANDARD)																													
DESIGNATION	SERVICE	LOCATION	DESICCANT OPTION	PROCESS AIR						REACTIVATION AIR						HEAT SOURCE	MIN GAS SUPPLY PRESSURE (INCHES OF W.C.)	MAX HEAT INPUT (MBTUH)	WATER SIDE VALVES								MODEL	REMARKS	
				TOTAL AIR QUALITY (CFM)	ENT AIR	LVT AIR	MAX TS/PSIP IN WC	MAX FAN HP	SPECIFICATION TYPE	MINIMUM EFFICIENCY %	TOTAL AIR QUALITY (CFM)	ENT AIR	MAX TS/PSIP IN WC	MAX FAN HP	SPECIFICATION TYPE				MINIMUM EFFICIENCY %	CHILLED WATER	HOT WATER PRE-HEAT								
DU B-1	BASEMENT	BASEMENT	SILICA GEL	1,800	58/42	99/6	5 862.31	3	"A"	30%	600	244	6 562.86	2	"A"	30%	GAS	-	107.3	10	9.5	42	56	2	15	180	140	MUNTERS HCD-2250-DGA-SFCMBP-1	DIRECT FIRED
DU B-2	GROUND LEVEL	BASEMENT	SILICA GEL	2,400	53/49	110/6	3 627.22	3	"A"	30%	1050	250	4 931.98	2	"A"	30%	GAS	-	194.9	24	23.4	42	56	4.75	15	180	140	MUNTERS HCD-4500-DGBA-SFCMBF-1	DIRECT FIRED
DU B-3	STAND-BY	BASEMENT	SILICA GEL	2,400	53/49	110/6	3 627.22	3	"A"	30%	1050	250	4 931.98	2	"A"	30%	GAS	-	194.9	24	23.4	42	56	4.75	15	180	140	MUNTERS HCD-4500-DGBA-SFCMBF-1	DIRECT FIRED
DU M-1	MUSEUM	2ND LEVEL	SILICA GEL	2,250	50/51.3	94/6.8	7 794.3	3	"A"	30%	600	250	6 562.85	2	"A"	30%	GAS	-	116.2	15	12.9	42	56	N/A	N/A	N/A	N/A	MUNTERS HCD-2250-DGA-PLUS	DIRECT FIRED

HOT WATER BOILER													
MARK	SERVICES	LOCATION	FUEL	MBH INPUT	MBH OUTPUT	ENT	LWT	GPM	PH	VOLTS/Ø	FLA	MARK	MANUFACTURER & MODEL NO
B-12.3,4	HOT WTR.	MEP-4	NGAS	2000	1740	180	140	87	②	460/3	6	20	AERCO BENCHMARK (BMK) 2.0 GWB ①

① PROVIDE MODEL 168 AESCO BOILER MANAGEMENT SYSTEM VENTING MATERIAL SHALL BE AL29-4C STAINLESS STEEL
② 10.1 FT @ 170 GPM

PUMPS														
MARK	SERVICES	LOCATION	FLUID	TYPE	GPM	TOT FT	NPSH FT	IMPELLER DIA.	RPM	BHP	HP	VOLTS/Ø	MIN EFF %	REFERENCE PRODUCT
CP-1,2,3	CHILLED WATER	MEP4	H2O	END SUCT	515	125	10.4	11.0625	1750	22.0	25	460/3	74	AURORA 3x4x12 ① ③
CP-4,5,6	COND WATER	MEP4	H2O	END SUCT	900	125	12.6	8.75	1750	16.2	20	460/3	86	AURORA 5x6x11 ① ③
CP-7	HX-1	MEP4	H2O	END SUCT	630	60	11.4	8.0	1750	10.2	15	460/3	80	AURORA 4x5x9 ① ③
CP-8,9	HEATING WATER	MEP4	H2O	END SUCT	260	115	15.7	10.9375	1750	12.3	15	460/3	64	AURORA 2x2.5x12 ① ③
CP-10	RADIANT SYSTEM (EAST)	MEP1	H2O	END SUCT	150	100	7.6	10.125	1750	3.86	10.0	460/3	65.1	B+G 1531-2E ② ④
CP-11	RADIANT SYSTEM (EAST)	MEP1	H2O	END SUCT	150	100	7.6	10.125	1750	3.86	10.0	460/3	65.1	B+G 1531-2E ② ④
CP-12	RADIANT SYSTEM (WEST)	MEP1	H2O	END SUCT	175	100	7.8	10.25	1750	6.62	10.0	460/3	67.3	B+G 1531-2E ② ④
CP-13	RADIANT SYSTEM (WEST)	MEP1	H2O	END SUCT	175	100	7.8	10.25	1750	6.62	10.0	460/3	67.3	B+G 1531-2E ② ④
CP-14	RADIANT SYSTEM (G HALL)	MEP1	H2O	END SUCT	50	100	7.1	9.5	1750	2.47	5.0	460/3	50.9	B+G 1531-1-1/4 BC ② ④
CP-15	RADIANT SYSTEM (G HALL)	MEP1	H2O	END SUCT	50	100	7.1	9.5	1750	2.47	5.0	460/3	50.9	B+G 1531-1 1/4 BC ② ④
CP-16	KITCHEN CONDENSER	MEP1	H2O	IN-LINE	4.5	20	-	-	2650	-	1/12	120/1	-	B+G PL-30 ⑤
CP-17	KITCHEN CONDENSER	MEP1	H2O	IN-LINE	4.5	20	-	-	2650	-	1/12	120/1	-	B+G PL-30 ⑤

① BASE MOUNTED, FLEXIBLE COUPLED, END SUCTION PUMP ③ PART OF PUMPING PACKAGE ⑤ PERMANENTLY LUBRICATED IRON BODY BOOSTER PUMP
② BASE MOUNTED, CLOSE-COUPLED END SUCTION PUMP ④ PROVIDE SUCTION DIFFUSER, TRIPLE DUTY VALVE

HEAT EXCHANGERS															
MARK	SERVICES	LOCATION	TONS /MBH	HOT LOOP					COOL LOOP					REFERENCE PRODUCT	REMARKS
				FLUID	ENT/F	LWT/F	GPM	WPD PSI	FLUID	ENT/F	LWT/F	GPM	WPD PSI		
HX-1	CHILLED WATER SYSTEM	MEP4		CH WTR	56	44	420	3.9	COND WTR	42	50	630	8.0	MEULLER AT 40MH	B-20 FRAME ①
HX-2	RADIANT COOLING (EAST)	MEP1		LOOP WTR	51	48	150	4.0	CH WTR	42	50	56.25	0.7	MEULLER AT 20PHV	C-20 FRAME ①
HX-3	RADIANT COOLING (WEST)	MEP1		LOOP WTR	51	48	175	7.8	CH WTR	42	50	65.6	1.4	MEULLER AT 20PH	C-20 FRAME ①
HX-4	RADIANT COOLING (G HALL)	MEP1		LOOP WTR	51	48	50	7.3	CH WTR	42	50	18.75	1.3	MEULLER AT 4FG	C-20 FRAME ①
HX-5	RADIANT COOLING (EAST)	MEP1		HOT WTR	180	140	37.5	0.6	LOOP WTR	80	90	150	7.4	MEULLER 10G	C-20 FRAME ①
HX-6	RADIANT COOLING (WEST)	MEP1		HOT WTR	180	140	43.75	0.7	LOOP WTR	80	90	175	7.0	MEULLER 402 V	C-20 FRAME ①
HX-7	RADIANT COOLING (G HALL)	MEP1		HOT WTR	180	140	12.5	0.6	LOOP WTR	80	90	50	7.4	MEULLER 4G	C-20 FRAME ①

① 304 S S PLATES

EXPANSION TANK											
MARK	SERVICES	TANK VOLUME	TANK ACCEPT VOLUME	TYPE	LOCATION	MIN TEMP	MAX TEMP	MIN PRESS. PSIG	MAX PRESS. PSIG	INITIAL TANK PRESS. PSIG	REFERENCE PRODUCT
ET-1	CHILLED WATER SYSTEM			BLADDER	MEP4	42	70	60	135		B&G -
ET-2	HOT WATER SYSTEM			BLADDER	MEP4	60	180	60	135		B&G -
ET-3	EAST RADIANT SYSTEMS			DIAPHRAM	MEP1	47	100				B&G -
ET-4	WEST RADIANT SYSTEM			DIAPHRAM	MEP1	47	100				B&G -
ET-5	G HALL RADIANT SYSTEM			DIAPHRAM	MEP1	47	100				B&G -

AIR DEVICE				
MARK	TYPE	DESCRIPTION	SIZE	REFERENCE PRODUCT
A	SUPPLY	SQUARE PLAQUE	SEE PLANS	TITUS "OMINI" ①
B	RETURN	PERFORATED FACE	SEE PLANS	TITUS "8F" ②
C	EXHAUST	EGG GRATE FACE	SEE PLANS	TITUS "50F" ③
D	SUPPLY	SQUARE PLAQUE	SEE PLANS	TITUS "OMINI" ④
E	RETURN	PERFORATED FACE	SEE PLANS	TITUS "8F" ⑤
F	SUPPLY	LINEAR SLOT	SEE PLANS	TITUS "TBD-30" ⑥
G	SUPPLY	SIDEWALL	SEE PLANS	TITUS "300RS" ⑦
H	RETURN	SIDEWALL	SEE PLANS	TITUS "350ZR" ⑧
J	SUPPLY	SIDEWALL LINEAR SLOT	SEE PLANS	TITUS "ML-39" ⑨
K	SUPPLY	LINEAR BAR	SEE PLANS	TITUS "CT-480" ⑩
L	SUPPLY	LINEAR SLOT	SEE PLANS	TITUS ML-39 ⑪
M	RETURN	HEAVY DUTY BAR RETURN GRILLE	SEE PLANS	TITUS 33RL ⑫
N	RETURN	LINEAR SLOT	SEE PLANS	TITUS MRL-39 ⑬
P	SUPPLY	ROUND ADJUSTABLE	SEE PLANS	TITUS "TMR" ⑭
R	SUPPLY	LOUVERED FACE	SEE PLANS	TITUS "TDCA" ⑮
S	SUPPLY	LINEAR BAR	SEE PLANS	TITUS CT-PP0 ⑯
T	SUPPLY	FLOW BAR	SEE PLANS	TITUS FL-HT ⑰

KEY: NO. IF MORE THAN ONE MARK. NECK SIZE: 1/8" (1/250") CFM.

- ① FOR LAY-IN CEILING (24"x24" NOMINAL FRAME TYPE 3) SQUARE PANEL FACE
- ② FOR LAY-IN CEILING (24"x24" NOMINAL, BORDER TYPE 3) PERFORATED SCREEN WITH 3/16" Ø HOLES ON 1/4" STAGGERED CENTERS ALUMINUM CONSTRUCTION PROVIDE SQUARE TO ROUND TRANSITION AS REQUIRED
- ③ SURFACE MOUNT (BORDER TYPE 1) 1/2"x1/2"x1/2" EGG GRATE ALUMINUM CONSTRUCTION SQUARE TO ROUND TRANSITION AS REQUIRED PROVIDE OPPOSED BLADE DAMPER
- ④ FOR LAY-IN CEILING, NOMINAL 24"x24" OR 12"x12" FACE (AS INDICATED ON PLANS) PROVIDE MODEL "TRM" TRIM FRAME FOR HARD CEILING APPLICATION
- ⑤ FOR LAY-IN CEILING (SIZE AS SHOWN ON PLANS, BORDER TYPE 3) PERFORATED SCREEN WITH 3/16" Ø HOLES ON 1/4" STAGGERED CENTERS ALUMINUM CONSTRUCTION PROVIDE SQUARE TO ROUND TRANSITION AS REQUIRED PROVIDE MODEL "TRM" TRIM FRAME FOR HARD CEILING APPLICATION
- ⑥ ADJUSTABLE MODULINEAR PLENUM SLOT DIFFUSER FOR LAY-IN CEILING, PROVIDE 11" TALL INSULATED PLENUM, MODEL "PF" MOUNTING FRAME FOR HARD CEILING APPLICATION, SEE PLANS FOR LENGTH & INLET SIZE. SLOT SIZE & COUNT ARE AS FOLLOWS:
UP TO 100 CFM 3/4" SLOT, 2 SLOTS (2'-0" LONG, 8" Ø INLET)
UP TO 100 CFM 3/4" SLOT, 1 SLOT (4'-0" LONG, 6" Ø INLET)
UP TO 200 CFM 1" SLOT, 2 SLOTS (4'-0" LONG, 8" Ø INLET)
UP TO 300 CFM 1" SLOT, 3 SLOTS (4'-0" LONG, 10" Ø INLET)
UP TO 350 CFM 1" SLOT, 4 SLOTS (4'-0" LONG, 10" Ø INLET)
UP TO 400 CFM 1" SLOT, 4 SLOTS (4'-0" LONG, 12" Ø INLET)
UP TO 600 CFM 1" SLOT, 4 SLOTS (5'-0" LONG, 12" Ø INLET)
- ⑦ DOUBLE DEFLECTION GRILLE (BORDER TYPE 1) BLADES 3/4" O C, FRONT BLADES PARALLEL TO SHORT DIMENSION PROVIDE OPPOSED BLADE DAMPER, FOAM GASKET
- ⑧ SINGLE DEFLECTION GRILLE (BORDER TYPE 1) 0 DEGREE FIXED BLADES 3/4" O C, FRONT BLADES PARALLEL TO LONG DIMENSION PROVIDE OPPOSED BLADE DAMPER, FOAM GASKET
- ⑨ MODULINEAR SLOT DIFFUSER FOR SURFACE MOUNTING (BORDER TYPE 1A) PROVIDE TYPE "X-X" END BORDER 1" SLOTS. SEE PLANS FOR SLOT COUNT
- ⑩ ALUMINUM FIXED BAR GRILLE, FINISH BY ARCHITECT, 1/8" BARS, 1/4" O C, 0 DEGREE DEFLECTION BORDER TYPE "6" (NO FLANGE FLOOR MOUNT) CORE SHALL BE REMOVABLE FROM FRAME FOR DAMPER ADJUSTMENT PROVIDE MODEL AG-35 DAMPER AT PLENUM CONNECTION, MITER CORNERS WHERE SHOWN ON PLANS & MODEL BLKS BLANK-OFFS FOR UNUSED PORTIONS OF GRILLES
- ⑪ MODULINEAR SLOT DIFFUSER, FLUSH BORDER/CONCEALED MOUNTING (TYPE "3") 4-1" SLOTS TYPE "Z" END CAP AT ENDS OF LONG CONTINUOUS RUNS (SEE ARCH PLANS FOR LENGTH) PROVIDE MITERED CORNERS WHERE SHOWN ON PLANS PROVIDE "BLKS" BLANK-OFFS AS REQUIRED FOR UNUSED SECTIONS
- ⑫ HEAVY DUTY BAR GRILLE FORMED 16 GAUGE BORDER 38 DEGREE FIXED DEFLECTIONS 14 GAUGE BLADES 1/2" O C, HIDDEN MULLIONS, BLADES PARALLEL TO LONG DIMENSION PROVIDE FOAM GASKET
- ⑬ MODULINEAR SLOT RETURN TO MATCH SUPPLY FLUSH BORDER/CONCEALED MOUNTING (TYPE "3") 4-1" SLOTS TYPE "Z" END CAPS ON END OF LONG CONTINUOUS RUNS (SEE ARCH PLANS FOR LENGTH)
- ⑭ DUCT MOUNTED ROUND CEILING DIFFUSER 360 DEGREE DISCHARGE PATTERN, 3 CONES, STEEL CONSTRUCTION 2-POSITION HORIZONTAL DISCHARGE SETTINGS
- ⑮ FOR LAY-IN CEILING (24x24 NOMINAL BORDER TYPE "3") 2-WAY "S2" PATTERN, ADJUSTABLE DISCHARGE ROUND NECK
- ⑯ ALUMINUM FIXED BAR GRILLE, (FINISH BY ARCHITECT) 7/32" BARS 7/16" O C BORDER TYPE "11"
- ⑰ LINEAR FLOWBAR SYSTEM

INTAKE VENTILATOR						
DESIGNATION	SERVES/LOCATION	CFM	HOOD VELOCITY FPM	P/D IN	FREE AREA SF	REFERENCE PRODUCT
IV-5-1	AH-5-1.2,3	4720	315	0.053	15	COOK 30x36 V1 ①

① PROVIDE ROOF CURB (COORDINATE WITH ROOF TYPE) BIRDSCREEN



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212 652 2566

Seal



BLOWER COIL UNITS / FAN COIL UNITS																												
MARK	SERVES	LOCATION	COOLING														HEATING											REFERENCE PRODUCT
			EAT		GPM	EWT	LWT	MAX WPD FT	CAP MBH			GPM	MAX WPD FT	EAT	MIN LAT	EWT	LWT	MIN MBH	ROW	CFM	TSP IN 120	ESP IN 120	RPM	MOTOR HP/WATT	VOLTS/Ø			
			DB	WB					SENS	TOTAL	ROW																	
FCU-B-1	MEP 2	ROOM B23	80	67	1.5	42	56	10.0	8.1	9.9	3	0.75	10.0	68	90	180	140	9.3	1	386	—	0.01	—	80W	120/1Ø	TRANE FCDB0601-MOD0010AF2M000D ①		
FCU-B-2	MEP 2	ROOM B23	80	67	1.5	42	56	10.0	8.1	9.9	3	0.75	10.0	68	90	180	140	9.3	1	386	—	0.01	—	80W	120/1Ø	TRANE FCDB0601-MOD0010AF2M000D ①		
FCU-B-3	—	ROOM B28	78	65	1.25	42	56	10.0	5.8	7.5	3	0.5	10.0	68	90	180	140	6.0	1	250	—	0.38	—	150W	120/1Ø	TRANE FCC0401-M0E0A10BF2M000D ②		
FCU-B-4	—	ROOM B29	78	65	1.25	42	56	10.0	5.8	7.5	3	0.75	10.0	68	90	180	140	6.0	1	250	—	0.38	—	150W	120/1Ø	TRANE FCC0401-M0E0A10BF2M000D ②		
FCU-B-5	ELEV S4	ROOM B27	80	64	1.5	42	56	10.0	8.6	10.3	4	N/A	—	N/A	N/A	N/A	N/A	N/A	1	311	—	0.01	—	100W	120/1Ø	TRANE FCDB0401-MOD0010AJ2M000D ①		
FCU-B-6	ELEV P6	ROOM B42	80	64	2.0	42	56	10.0	13.1	14.3	4	N/A	—	N/A	N/A	N/A	N/A	N/A	1	510	—	0.01	—	125W	120/1Ø	TRANE FCDB0601-MOD0010AJ2M000D ①		
FCU-B-7	ELEV F5	ROOM B39	80	64	2.7	42	56	10.0	15.7	18.2	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	612	—	0.01	—	120W	120/1Ø	TRANE FCDB0601-MOD0010AJ2M000D ①		
FCU-B-8	ELEV RM 1	ROOM B37	80	64	2.7	42	56	10.0	15.7	18.2	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	612	—	0.01	—	120W	120/1Ø	TRANE FCDB0601-MOD0010AJ2M000D ①		
FCU-B-9	ELEV RM 2	ROOM B38	80	64	2.7	42	56	10.0	15.7	18.2	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	612	—	0.01	—	120W	120/1Ø	TRANE FCDB0601-MOD0010AJ2M000D ①		
FCU-1-1	ROOM 1-44	ROOM 1-44	80	64	3.25	42	56	10.0	21.7	22.2	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	871	—	0.01	—	225W	120/1Ø	TRANE FCDB1001-MOD0010AJ2M000D ①		
FCU-1	—	—	—	—	—	42	56	10.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
FCU-3-1	UL ESCALATOR	ABOVE CEILING	85	62.6	5.0	42	56	10.0	39.1	39.7	4	2.0	10.0	60	80	180	156	26.0	1	1087	—	0.41	—	530W	120/1Ø	TRANE FCCB1201-M0F0A00BJ2M000D 3		
FCU-4-1	UL ESCALATOR	ABOVE CEILING	85	62.6	5.0	42	56	10.0	39.1	39.7	4	2.0	10.0	60	80	180	156	26.0	1	1087	—	0.41	—	530W	120/1Ø	TRANE FCCB1201-M0F0A00BJ2M000D ③		
FCU-4-2	UL ESCALATOR	ABOVE CEILING	85	62.6	5.0	42	56	10.0	39.1	39.7	4	2.0	10.0	60	80	180	156	26.0	1	1087	—	0.41	—	530W	120/1Ø	TRANE FCCB1201-M0F0A00BJ2M000D ③		
FCU-4-3	UL ESCALATOR	ABOVE CEILING	85	62.6	5.0	42	56	10.0	39.1	39.7	4	2.0	10.0	60	80	180	156	26.0	1	1087	—	0.41	—	530W	120/1Ø	TRANE FCCB1201-M0F0A00BJ2M000D ③		
FCU-4-4	ROOM 4-13	IN SPACE	75	62.5	1.75	42	56.2	10.0	11.0	11.2	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	600	—	0.35	—	320W	120/1Ø	TRANE FCDB0601-MOD0010AJ2M000D ④		
FCU-P-1	PENT ELEV	PENTHOUSE	80	64	4.75	42	55.6	10.0	25.1	31.5	4	1.0	10.0	60	80	180	143.7	18.2	1	898	—	0.01	—	220W	120/1Ø	TRANE FCDB1201-MOD0010AJ2M000D ①		
FCU-M 1	ROOM 2-01	IN SPACE	78	65	1.5	42	55.2	10.0	8.3	9.2	3	0.75	10.0	68	90	180	140	9.6	1	400	—	0.35	—	192W	120/1Ø	TRANE FCDB0601-MOD0010AJ2M000D ④		
FCU-M 2	ROOM 2-01	IN SPACE	78	65	0.75	42	55.7	10.0	3.3	4.2	3	0.5	10.0	68	90	180	140	3.6	1	150	—	0.30	—	90W	120/1Ø	TRANE FCDB0601-MOD0010AJ2M000D ④		
FCU-M 3																												
FCU-M 4																												
FCU-M 5	ELEV P7	RM-2-17	80	64	1.0	42	55.4	10.0	5.6	6.5	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	204	—	0.01	—	60W	120/1Ø	TRANE FCDB0201-MOD0010AJ2M000D ①		
FCU-M 6																												
BCU-1-1	RMs 1-31, 1-32	CORR 1-50	80	59.03	6.75	42	56.4	10.0	46.7	46.7	6	2.5	10.0	60	90	180	140	46.4	1	1425	1.26	0.50	1249	3/4	120/1Ø	TRANE BCHB-036		
BCU-1-2	RMs 1-36, 1-37	VESTIBULE 1-38	80	59.03	3.75	42	55.6	10.0	24.4	24.4	6	1.25	10.0	60	90	180	140	25.2	1	775	1.10	0.50	1155	1/3	120/1Ø	TRANE BCHB-024		
BCU-B-1	ROOM B-33	BASEMENT	80	59.03	4.0	42	55.2	10.0	25.4	25.4	6	1.0	10.0	60	90	180	140	26.0	1	800	1.14	0.50	1171	1/3	120/1Ø	TRANE BCHB-024FF1		
BCU-B-2	ROOM B-45	BASEMENT	80	59.03	2.5	42	59.8	10.0	21.2	21.2	6	1.0	10.0	60	90	180	140	26.0	1	800	1.14	0.50	1171	1/3	120/1Ø	TRANE BCHB-024FF1		
BCU-B-3	NO CORRIDOR	MEP-B	81.2	66.8	6.0	42	55	10.0	27.4	37.9	4	2.0	10.0	60	90	180	140	40.0	1	950	1.21	0.75	1273	1/2	120/1Ø	TRANE BCVB-036FF1		
BCU-B-4	SO CORRIDOR	MEP-5	81.4	66.9	9.5	42	55.9	10.0	43.5	63.1	6	2.75	10.0	55	90	180	140	53.2	1	1400	2.23	1.0	1690	1.0	460/3Ø	TRANE BCVB-036FF1		
BCU-B-5	ELEV F3	ROOM B-20	80	64	7.7	42	56	10.0	49.4	52.0	6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1800	1.32	0.50	909	3/4	120/1Ø	TRANE BCHB-054FF1		
BCU-B-4-1	STAIR 1	ABOVE CEILING	85	62.6	14.5	42	56.3	10.0	99.8	99.8	6	4.5	10.0	65	90	180	140	76.0	1	2800	1.82	0.75	1084	2	460/3Ø	TRANE BCHB-072FF1		
BCU-B-4-2	STAIR 2	ABOVE CEILING	85	62.6	14.5	42	56.3	10.0	99.8	99.8	6	4.5	10.0	65	90	180	140	76.0	1	2800	1.82	0.75	1084	2	460/3Ø	TRANE BCHB-072FF1		

① HORIZONTAL CABINET FAN COIL, BOTTOM STAMPED INLET, FRONT QUAD OUTLET, 1" FILTER, EXTENDED END POCKET & DISCONNECT
 ② HORIZONTAL CONCEALED FAN COIL, BOTTOM TOE INLET FRONT DUCT COLLAR OUTLET, 1" FILTER & DISCONNECT
 ③ HORIZONTAL CONCEALED FAN COIL, BACK DUCT COLLAR INLET FRONT DUCT COLLAR OUTLET, 1" FILTER & DISCONNECT
 ④ HORIZONTAL RECESSED, BOTTOM STAMPED INLET, FRONT DUCT COLLAR OUTLET & 1" FILTER

ELECTRIC WATER CHILLER																										
DESIGNATION	SERVICE	LOCATION	NOMINAL TONS	EVAPORATOR SIDE						CONDENSER SIDE						FULL AND PART LOAD DATA (KW/TON)					ELECTRIC DATA			REFRIGERANT	REFERENCE PRODUCT	
				CHILLED WATER FLOW RATE (GPM)	CHILLED WATER TEMPERATURE (DEGREES F)	EVAPORATOR TEMPERATURE (DEGREES F)	LOG WATER TEMPERATURE (DEGREES F)	CONDENSER WATER PRESSURE (PSI)	CONDENSER WATER TEMPERATURE (DEGREES F)	NO OF PASSES	EVAPORATOR FACTOR	CONDENSER WATER FLOW RATE (GPM)	CONDENSER WATER TEMPERATURE (DEGREES F)	CONDENSER TEMPERATURE (DEGREES F)	CONDENSER WATER PRESSURE (PSI)	CONDENSER WATER TEMPERATURE (DEGREES F)	NO OF PASSES	EVAPORATOR EFFICIENCY	CONDENSER EFFICIENCY	100% LOAD EFFICIENCY	75% LOAD EFFICIENCY	50% LOAD EFFICIENCY	HP/TON			ELECTRIC MOTOR HP/WATT
C-1	CHILLED WATER	BASEMENT	300	515	56	42	94	4	0.0001	900	85	95	12.7	2	0.00025	0.610	0.536	0.477	0.647	0.518	181.4	460/3	262.5	WYE-DELTA	HFC-134a	TRANE RTHC
C-2	CHILLED WATER	BASEMENT	300	515	56	42	94	4	0.0001	900	85	95	12.7	2	0.00025	0.610	0.536	0.477	0.647	0.518	181.4	460/3	262.5	WYE-DELTA	HFC-134a	TRANE RTHC
C-3	CHILLED WATER	BASEMENT	300	515	56	42	94	4	0.0001	900	85	95	12.7	2	0.00025	0.610	0.536	0.477	0.647	0.518	181.4	460/3	262.5	WYE-DELTA	HFC-134a	TRANE RTHC

COMPUTER ROOM A/C UNIT																			
MARK	SERVES	FAN		HOT WATER COIL ②				STEAM HUMIDIFIER		CHILLED WATER COIL ③				FLA	MOCP	VOLTS/Ø	REFERENCE PRODUCT	REMARKS	
		CFM	HP	GPM	EWTLWT	MAX WPD FT	TOTAL MBH	CAP LB/HR	KW	GPM	EWT/LWT	MAX WPD FT	TOTAL MBH						SENS MBH
CRU-1,2	NARA COMP RM	2800	1.5	5	180/145	16.9	88.7	11	3.9	7.2	42/56	3.2	46.6	45.6	19	15	460/3	LIEBERT BU 102C	①
CRU-3,4	EXHIBIT DATA	9300	5.0	8	180/158	4.4	89.9	22	7.2	19.4	42/56	2.3	134.2	134.2	20.5	40	460/3	LIEBERT UH 302C	①

① WITH CONDENSATE PUMP, FLOOR STAND & ELECTRIC HUMIDIFIER
 ② BASED ON 75°F EAT
 ③ BASED ON 72°F db, 45% RH

100% Construction Documents 09/27/

HUMIDIFIER (ELECTRIC)							
DESIGNATION	SERVES	LOCATION	VOLTS	KW	MAX LBS/HR	STAGES	REFERENCE PRODUCT
H-B-1	AH-B-1	MEP-2	460/3Ø	9	25.7	1	DRI STEAM VLC 9-1
H-B-2	AH-B-2	MEP-2	460/3Ø	18	51.3	3	DRI STEAM VLC 18-3 ①
H-B-3	AH-B-3	MEP-2	460/3Ø	18	51.3	3	DRI STEAM VLC 18-3 ①
H-M-1	AH-M-1	2nd LEVEL	460/3Ø	18	51.3	3	DRI STEAM VLC 18-3 ①
H-M-2	AH-M-3	2nd LEVEL	460/3Ø	18	51.3	3	DRI STEAM VLC 18-3 ①
H-M-3	AH-M-5	2nd LEVEL	460/3Ø	18	51.3	3	DRI STEAM VLC 18-3 ①
H-M-4	AH-M-7	2nd LEVEL	460/3Ø	18	51.3	3	DRI STEAM VLC 18-3 ①

① PROVIDE FLOOR STAND FACTORY SOLENOID SHUT-OFF VALVE (EP-3), HOSE KIT AIRFLOW PROVE SWITCH & METAL LV-6 ULTRASORB MANIFOLD

FINNED TUBE						
HEATING ELEMENT	NO OF TUBES	FINS	FINS THICKNESS	CAPACITY BR/HR FT	FINS/FOOT	REFERENCE PRODUCT

COMBUSTION AIR FANS						
MARK	SERVES	CFM	ESP IN	AMPS	VOLTSØ	REFERENCE PRODUCT
CF-1	GWH-1	200	0.4	10	120/1	TJERNLUND IN-FORCER PAI-4 ①
CF-2	GWH-2	200	0.4	10	120/1	TJERNLUND IN-FORCER PAI-4 ①

① PROVIDE ALARM CONTACTS FOR BUILDING AUTOMATION SYSTEM (BAS), HIGH AMBIENT TEMPERATURE CUT-OFF IN CASE OF MECHANICAL ROOM FIRE

AIR SEPARATOR						
MARK	GPM	MAX PSI FT	AIR REMOVAL %	SIZE IN	REFERENCE PRODUCT	
AS-1	175 GPM	1.0	97.2	4	B & G RL-4 ①	
AS-1	150 GPM	1.0	98	4	B & G RL-4 ①	
AS-3	50 GPM	1.0	97.4	2 1/2	B & G RL-2 1/2 ①	

① PROVIDE MODEL 107A AIR VENT

AIR HANDLING UNITS SUPPLY & FANS																			
MARK	SERVES	CFM	TSP	ESP IN	RPM	HP WATT	VOLTSØ	TYPE	DRIVE	CONTROLS	MAX. Ø AT OCTAVE BAND (DISCHARGE)								REFERENCE PRODUCT
											63	125	250	500	1000	2000	4000	8000	
SF-B-1	AH-B-1	16000	5.0	2.5	1653	20	460/3	AF	BELT	---	82	77	85	72	74	72	68	61	TRANE
SF-B-2	AH-B-2	16000	5.0	2.5	1653	20	460/3	AF	BELT	---	82	77	85	72	74	72	68	61	TRANE
SF-B-3	AH-B-3	16000	5.0	2.5	1653	20	460/3	AF	BELT	---	82	77	85	72	74	72	68	61	TRANE
SF-B-4	AH-B-4	13200	4.25	2.0	983	20	460/3	FC	BELT	VFD	97	100	93	96	92	89	84	77	TRANE
SF-B-5	AH-B-5	5010	3.9	1.5	2909	7.5	460/3	B1	BELT	---	92	94	93	96	92	89	80	79	TRANE
SF-B-6	AH-B-6	11200	5.7	2.5	2133	20	460/3	B1	BELT	---	98	102	100	103	99	95	86	84	TRANE
SF-B-7	AH-B-7	13500	5.4	2.5	1025	20	460/3	FC	BELT	VFD	97	99	91	94	91	87	82	75	TRANE
SF-B-8	AH-B-8	2800	5.4	2.5	2339	5	460/3	FC	BELT	VFD	96	92	90	86	86	82	80	72	TRANE
SF-B-9	AH-B-9	18200	5.2	2.5	1765	25	460/3	AF	BELT	VFD	96	97	99	93	91	81	76	70	TRANE
SF-B-10	AH-B-10	3200	2.62	0.75	1693	3	460/3	FC	BELT	---	91	86	86	82	82	80	78	70	TRANE
SF-1-1	AH-1-1	2400	3.9	1.0	1963	3	460/3	FC	BELT	---	92	88	86	82	81	78	76	68	TRANE
SF-1-2	AH-1-2	3800	4.5	2.5	2708	7.5	460/3	B1	BELT	VFD	90	93	90	93	88	85	76	75	TRANE
SF-1-3	AH-1-3	8750	1.8	0.75	796	7.5	460/3	FC	BELT	---	94	91	83	82	81	79	74	68	TRANE
SF-M-1	AH-M-1	4540	4.8	1.0	2364	7.5	460/3	AF	BELT	---	96	96	93	91	87	79	71	64	TRANE
SF-M-2	AH-M-2	4515	3.4	1.0	2626	5	460/3	B1	BELT	---	89	92	90	93	89	85	76	75	TRANE
SF-M-3	AH-M-3	3605	4.1	1.0	1722	5	460/3	FC	BELT	---	96	91	89	85	85	81	80	71	TRANE
SF-M-4	AH-M-4	4825	4.2	1.0	2853	7.5	460/3	B1	BELT	---	91	94	92	95	91	88	80	78	TRANE
SF-M-5	AH-M-5	4500	4.63	1.5	2846	7.5	460/3	B1	BELT	---	91	94	92	95	91	87	78	77	TRANE
SF-M-6	AH-M-6	4500	4.63	1.5	2846	7.5	460/3	B1	BELT	---	91	94	92	95	91	87	78	77	TRANE
SF-M-7	AH-M-7	3500	4.71	1.75	1840	5	460/3	FC	BELT	---	97	92	90	86	86	82	80	72	TRANE
SF-M-8	AH-M-8	6100	6.61	3.5	2957	15	460/3	B1	BELT	VFD	91	89	85	94	88	87	82	79	TRANE
SF-M-9	AH-M-9	7000	3.8	1.0	2748	15	460/3	B1	BELT	---	95	98	96	100	96	93	84	83	TRANE
SF-5-1	AH-5-1	8800	5.2	2.5	2226	15	460/3	B1	BELT	VFD	96	99	97	100	96	92	84	82	TRANE
SF-5-2	AH-5-2	8200	5.05	2.5	2137	15	460/3	B1	BELT	VFD	95	98	96	99	95	90	82	80	TRANE
SF-5-3	AH-5-3	2720	3.93	1.5	1968	3	460/3	FC	BELT	---	93	88	87	83	83	79	78	69	TRANE

DUST COLLECTOR									
MARK	SERVES	CFM	STATIC PRESSURE (IN)	VELOCITY (FPM)	RPM	HP	VOLTSØ	DRIVE	REFERENCE PRODUCT
DC-1	PRODUCTION STUDIO	1600	8.6"	4580	3600	7.5	460/3Ø	DIRECT	CAR-MON MODEL 207-A ①

① PROVIDE DISCONNECT, AFTER FILTER (WITH HOUSING), 55 GALLON DRUM COLLECTOR & SILENCER

PAINT HOOD									
DESIGNATION	SERVICES LOCATION	INSIDE WORKING DIMENSIONS (WxHxD)	OUTSIDE OVERALL DIMENSIONS (WxHxD)	# OF LIGHT FIXTURES	# OF FILTERS	FAN			REFERENCE PRODUCT
						CFM @ 0.25 ESP	HP	VOLTSØ	
PH-1	ROOM 1-41	10'x7'x6'	10'-4"x7'-2"x9'-2"	2	20	8750	2	460/3Ø	JEI IDB-107 ①

① PROVIDE 2 4'-0" x 4 LAMP "DAY-BRIGHT" LIGHT FIXTURES (110V 32W LAMPS), MODEL CP1-24803 CONTROL PANEL

VARIABLE AIR VOLUME TERMINALS																				
MARK	SERVES	TYPE	INLET SIZE (IN)	MAX CFM	OSA CFM	MIN CFM (1)	PRIMARY HEAT CFM	A.P.D IN OF 180	MAX N.C	HEAT					FAN				REMARKS	
										EAT °F	ENTHALPY °F	CFM	MIN LAT °F	MIN MBH	ROW	GPM	ESP	HP		VOLTSØ
B-1	SEE PLANS	VAV	12	1500		300	300		30	55	180/140	1.0	90	11.4	1					ENVIRO-TEC SDR-WC
B-2	SEE PLANS	VAV	10	1200		600	600		30	55	180/140	1.75	90	22.8	2					ENVIRO-TEC SDR-WC
B-3	SEE PLANS	VAV	12	1500		300	300		30	55	180/140	0.75	90	11.4	1					ENVIRO-TEC SDR-WC
B-4	SEE PLANS	VAV	16	2700		1350	1350		30	55	180/140	4.0	90	51.3	2					ENVIRO-TEC SDR-WC
B-5	SEE PLANS	VAV	8	700		350	350		30	55	180/140	1.0	90	13.3	1					ENVIRO-TEC SDR-WC
B-6	SEE PLANS	VAV	16	3250		1625	1625		30	55	180/140	4.9	90	61.7	2					ENVIRO-TEC SDR-WC
B-7	SEE PLANS	VAV	8	575		275	275		30	55	180/140	1.25	90	10.4	1					ENVIRO-TEC SDR-WC
B-8	SEE PLANS	VAV	16	3250		1625	1625		30	55	180/140	5.0	90	61.7	2					ENVIRO-TEC SDR-WC
B-9	SEE PLANS	VAV	8	690		300	300		30	55	180/140	0.75	90	11.4	1					ENVIRO-TEC SDR-WC
1-1	SEE PLANS	VAV	19	3830		1915	1915		30	55	180/140	5.5	90	72.7	2					ENVIRO-TEC SDR-WC
1-2	SEE PLANS	VAV	6	375		75	75		30	55	180/140	0.75	90	2.8	1					ENVIRO-TEC SDR-WC
1-3	SEE PLANS	VAV	10	880		375	375		30	55	180/140	1.25	90	14.2	2					ENVIRO-TEC SDR-WC
1-4	SEE PLANS	VAV	6	350		75	75		30	55	180/140	0.75	90	2.8	1					ENVIRO-TEC SDR-WC
1-5	SEE PLANS	VAV	12	1140		550	550		30	55	180/140	1.5	90	20.9	2					ENVIRO-TEC SDR-WC
1-6	SEE PLANS	VAV	12	1140		550	550		30	55	180/140	1.5	90	20.9	2					ENVIRO-TEC SDR-WC
1-7	SEE PLANS	VAV	6	290		125	125		30	55	180/140	0.75	90	4.7	2					ENVIRO-TEC SDR-WC
1-8	SEE PLANS	VAV	6	245		75	75		30	55	180/140	0.75	90	2.8	1					ENVIRO-TEC SDR-WC
1-9	SEE PLANS	VAV	6	375		175	175		30	55	180/140	0.75	90	6.6	1					ENVIRO-TEC SDR-WC
1-10	SEE PLANS	VAV	10	850		275	275		30	55	180/140	0.75	90	10.4	1					ENVIRO-TEC SDR-WC
1-11	SEE PLANS	VAV	8	475		250	250		30	55	180/140	0.75	90	9.5	1					ENVIRO-TEC SDR-WC
1-12	SEE PLANS	VAV	10	825		400	400		30	55	180/140	1.25	90	15.2	2					ENVIRO-TEC SDR-WC
M-1	SEE PLANS	VAV	12	1600		500	800		30	55	180/140	2.25	90	30.4	2					ENVIRO-TEC SDR-WC
M-2	SEE PLANS	VAV	14	2000		600	1000		30	55	180/140	3.0	90	38.0	2					ENVIRO-TEC SDR-WC
2-1	SEE PLANS	VAV	12	1440		400	625		30	55	180/140	2.0	90	23.7	2					ENVIRO-TEC SDR-WC
2-2	SEE PLANS	VAV	10	1000		250	400		30	55	180/140	1.25	90	15.2	2					ENVIRO-TEC SDR-WC
2-3	SEE PLANS	VAV	12	1560		400	600		30	55	180/140	2.0	90	22.8	2					ENVIRO-TEC SDR-WC
2-4	SEE PLANS	VAV	12	1440		400	625		30	55	180/140	2.0	90	23.7	2					ENVIRO-TEC SDR-WC
2-5	SEE PLANS	VAV	10	1050		250	350		30	55	180/140	1.0	90	13.3	2					ENVIRO-TEC SDR-WC
2-6	SEE PLANS	VAV	12	1245		400	500		30	55	180/140	1.5	90	19.0	2					ENVIRO-TEC SDR-WC
3-1	SEE PLANS	VAV	8	600		125	125		30	55	180/140	0.75	90	4.7	1					ENVIRO-TEC SDR-WC
3-2	SEE PLANS	VAV	14	2000		400	400		30	55	180/140	1.0	90	15.2	1					ENVIRO-TEC SDR-WC
3-3	SEE PLANS	VAV	14	2150		1075	1075		30	55	180/140	3.25	90	40.8	2					ENVIRO-TEC SDR-WC
3-4	SEE PLANS	VAV	8	700		350	350		30	55	180/140	1.0	90	13.3	1					ENVIRO-TEC SDR-WC
3-5	SEE PLANS	VAV	8	500		250	250		30	55	180/140	0.75	90	9.5	1					ENVIRO-TEC SDR-WC
3-6	SEE PLANS	VAV	10	1200		600	600		30	55	180/140	1.75	90	22.8	1					