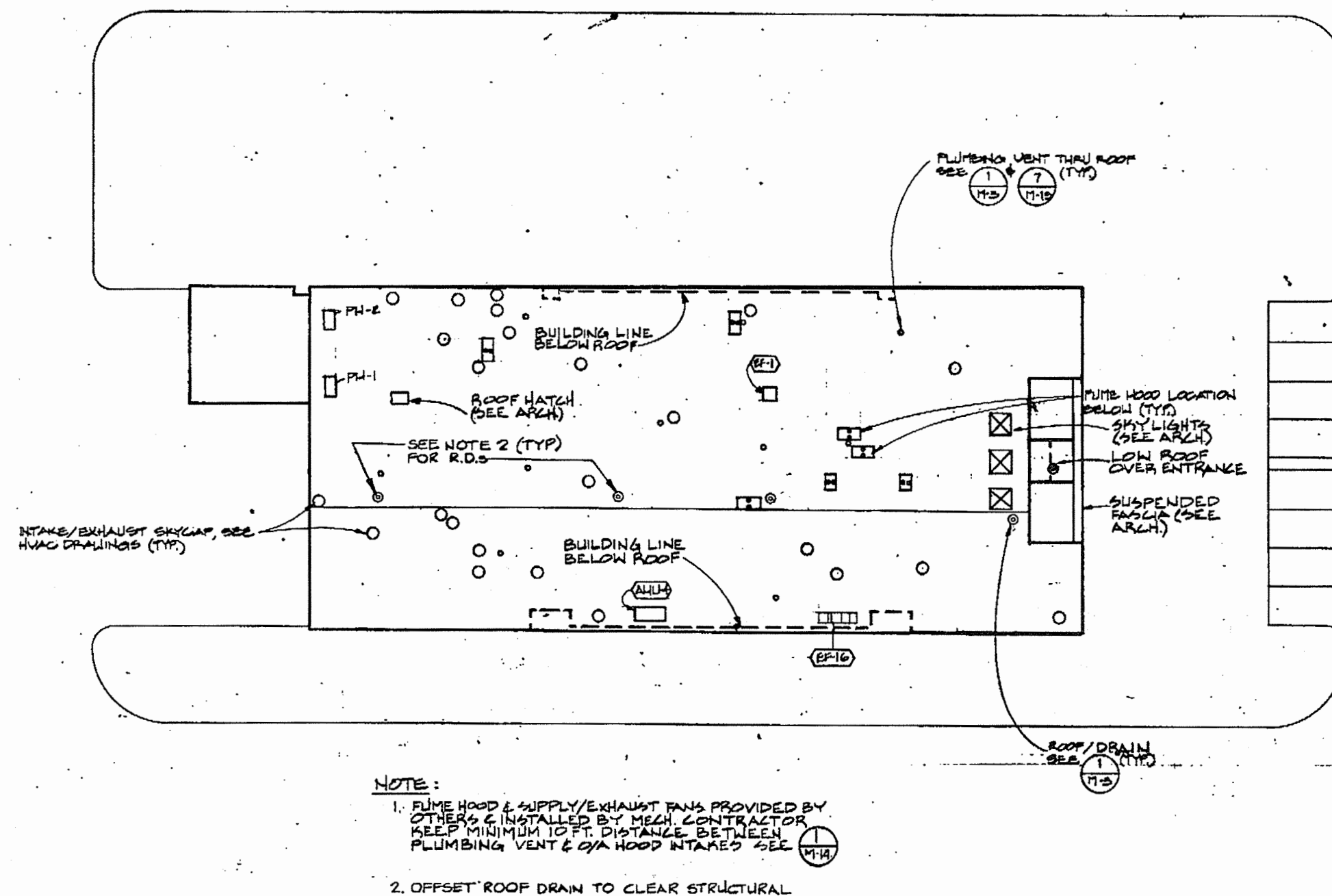




1 ROOF/ SITE PLAN
M-1
SCALE: 1" = 20'

LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
---	LPS	LOW PRESSURE STEAM
---	CR	CONDENSATE RETURN
---	FOS	FUEL OIL SUPPLY
---	FOR	FUEL OIL RETURN
---	FOV	FUEL OIL VENT
---	A	COMPRESSED AIR
---	GHS	GLYCOL HEATING SUPPLY
---	GHR	GLYCOL HEATING RETURN
---	CWS	CHILLED WATER SUPPLY
---	CWR	CHILLED WATER RETURN
---	X	PIPE ANCHOR
---	E	PIPE GLIDE
---	W	WASTE
---	AW	ACID WASTE
---	V	PLUMBING VENT
---	AV	ACID VENT
---	CW	DOMESTIC COLD WATER
---	HW	DOMESTIC HOT WATER
---	HWK	DOMESTIC HOT WATER RECIRC
---	S	FIRE SPRINKLER
---	G	NATURAL GAS
---	U	UPRIGHT SPRINKLER HEAD
---	P	PENDENT SPRINKLER HEAD
---	S	SIDEWALL SPRINKLER HEAD
---	CD	CONDENSATE DRAIN
---	FL	RAIN LEADER
---	DFL	OVERFLOW RAIN LEADER
---	H	HYDROGEN
---	LA	LAB AIR
---	TW	TEMPERED WATER
---	HD	HOSE DIBB
---	HTD	HOSE THREAD DRAIN VALVE
---		GLOBE VALVE
---		CHECK VALVE
---		STOP COCK
---		GATE VALVE
---		BALL OR BUTTERFLY VALVE
---		BALANCING VALVE
---		AUTOMATIC FLOW CONTROL
---		AUTOMATIC VALVE - 2 WAY
---		AUTOMATIC VALVE - 3 WAY
---	PRV	PRESSURE RELIEF VALVE
---	AAV	AUTOMATIC AIR VENT
---	MAV	MANUAL AIR VENT
---		STRAINER
---	PR	PRESSURE REGULATOR
---	OSY	OUTSIDE SCREW & YOE GATE VALVE
---	F&T	FLOAT & THERMOSTATIC TRAP
---		PIPE TURNING UP
---		PIPE TURNING DOWN
---		TEE DOWN
---		TEE UP
---		UNION
---		FLEXIBLE CONNECTOR
---	CP	IN-LINE CIRCULATING PUMP
---	P	BASE MOUNTED CIRC PUMP
---	FLP	FUSIBLE LINK FIRE DAMPER
---	MDA	MOTORIZED DAMPER ASSEMBLY
---	AHU	AIR HANDLING UNIT
---		TURN VALVES
---	VD	VOLUME DAMPER
---	N	NITROGEN
---	VTR	VENT TO ROOF

NOTE: SEE DWG. M-17 FOR DUCT CONSTRUCTION
DETAILS & LEGEND CONTINUATION.



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PROJECT NUMBER 1-0000

ROOF/SITE PLAN & LEGEND

JOB NO. 83-70

M1

DATE 13 JULY 84



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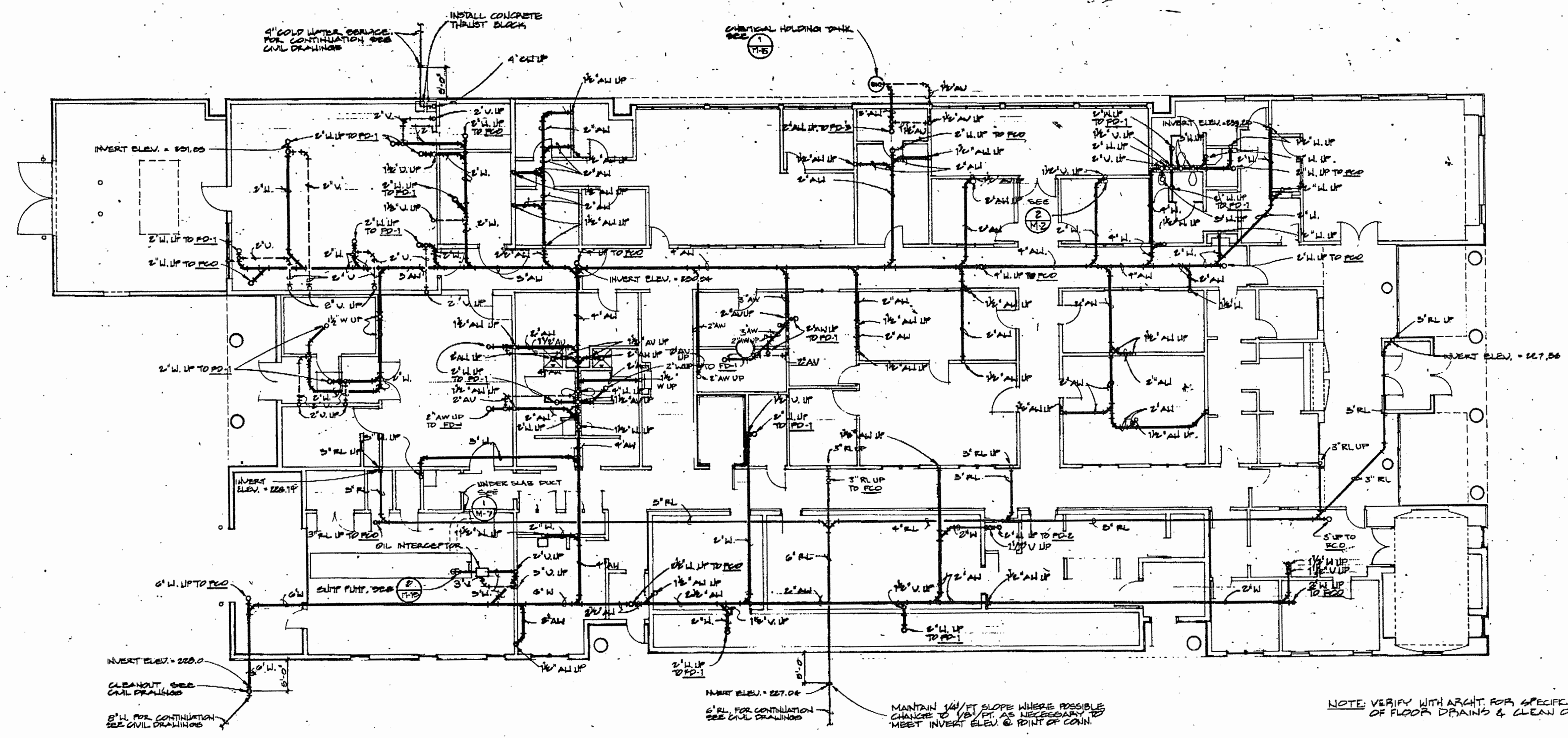
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PROJECT NUMBER 1-002

UNDER SLAB PLAN-SANITARY
& STORM DRAINAGE

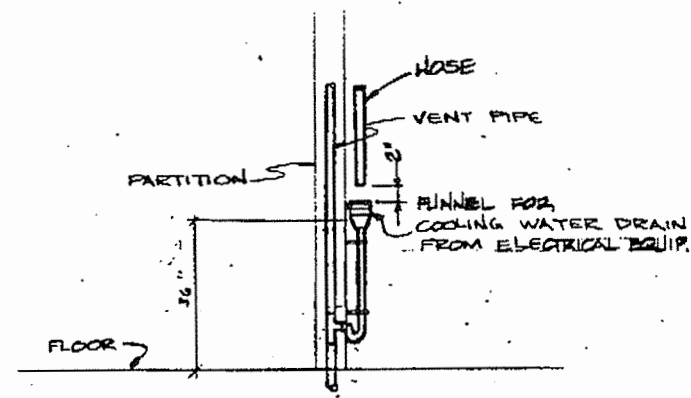
JOB NO. 83-70

M2
OF 15

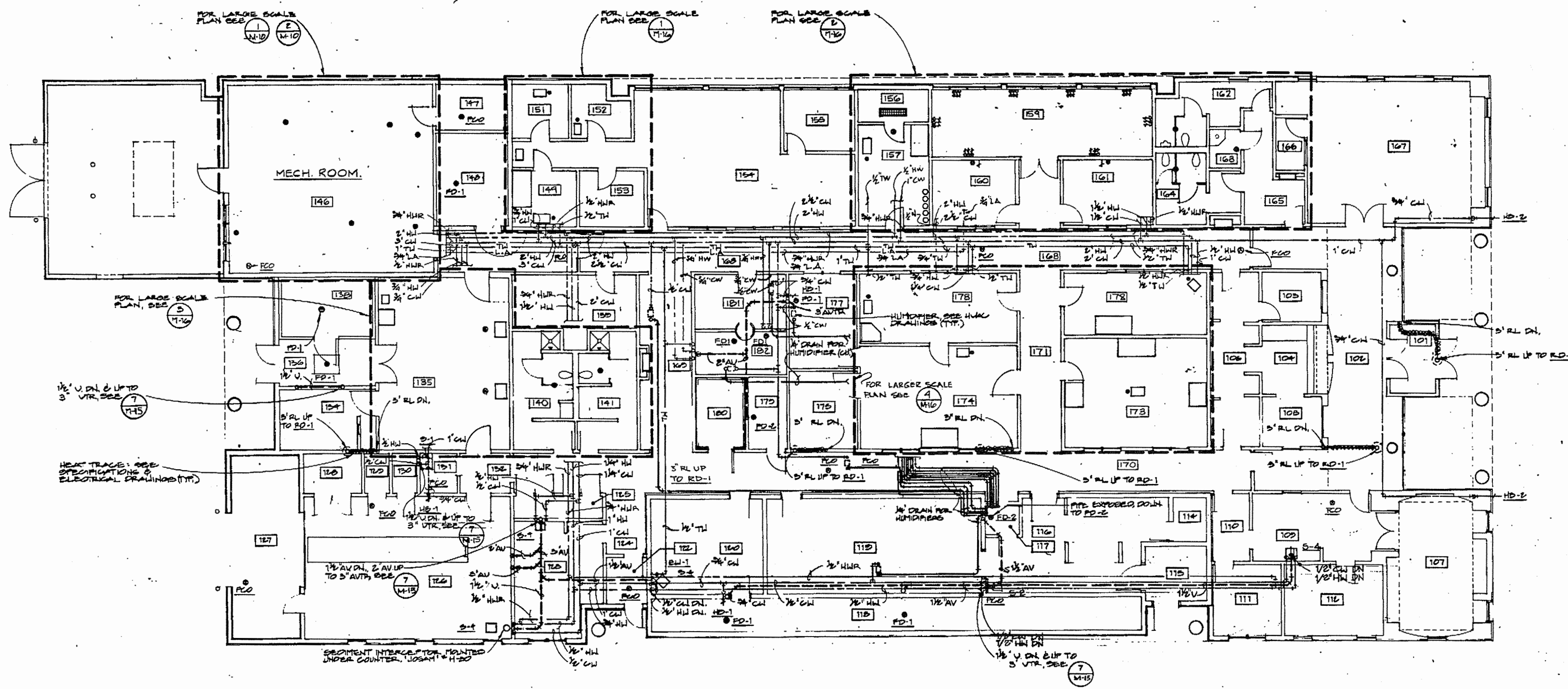
DATE 13 JULY 84



1 UNDERGROUND PLAN - PLUMBING
SCALE: 1/8" = 1'-0"



2 STEM DRAIN DETAIL
SCALE: NONE



1
M3
PLAN-ABOVE CEILING, PLUMBING
 SCALE 1/8"=1'-0"

 NORTH

GENERAL NOTE:
 1. ALL EXPOSED WASTE AND HOT WATER PIPING UNDER LAVATORIES IN HANDICAPPED ACCESS AREAS SHALL BE INSULATED PER APPLICABLE CODES.



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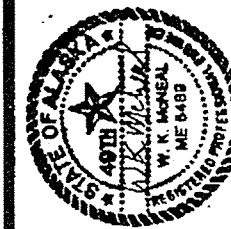
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 DESIGN PROJECT NUMBER 8-10028

ABOVE CEILING PLAN
 PLUMBING, STORM
 SPECIAL GAS PIPING

JOB NO. 83-70

M 3
 OF 18
 DATE 15 JULY 84



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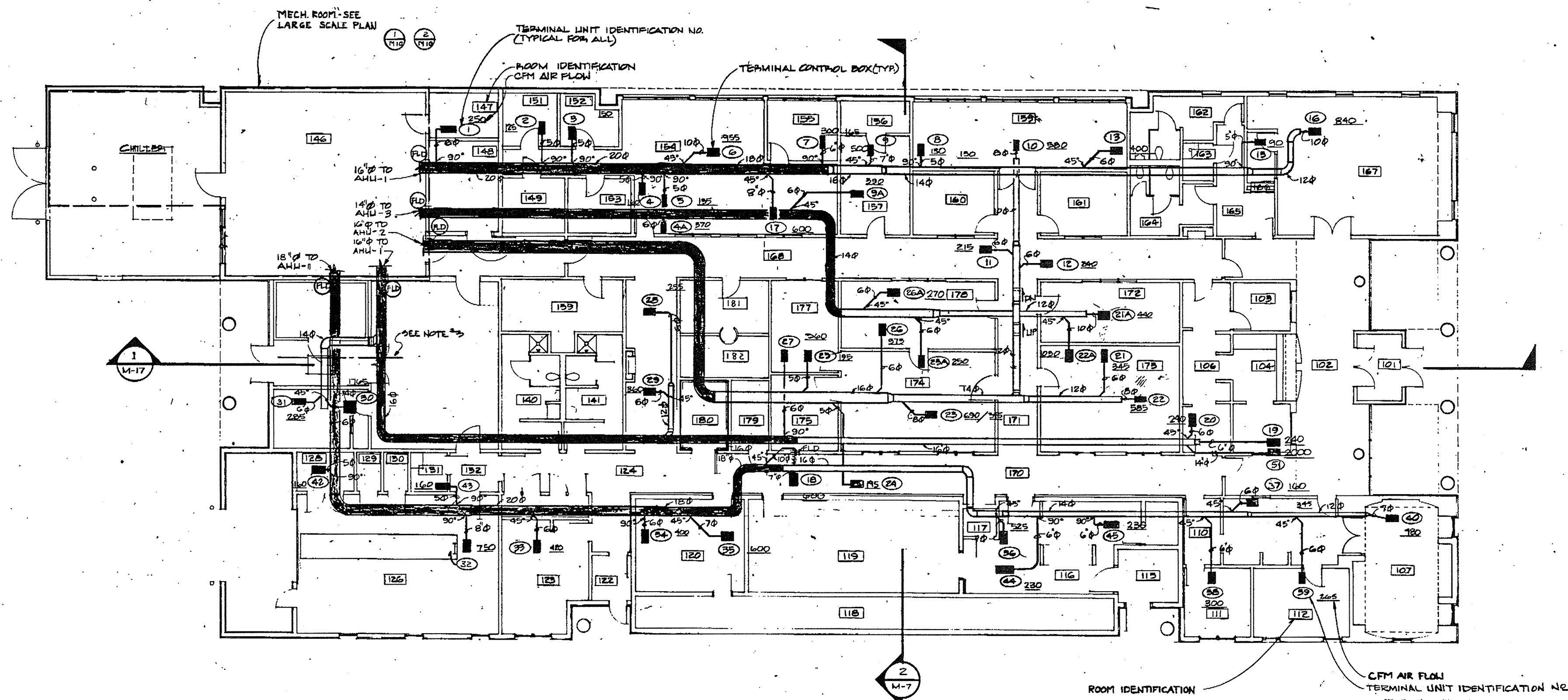
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PROJECT NUMBER 83-70

FLOOR PLAN-SUPPLY
DUCTWORK MAINS

JOB NO. 83-70

M4

OF 18
DATE 13 JULY 84



FLOOR PLAN - SUPPLY DUCTWORK MAINS
1/8" = 1'-0" NORTH

SHEET NOTES

1. SEE 1/19 FOR LARGE SCALE AIR DISTRIBUTION NORTH HALF
 2. SEE 2/19 FOR LARGE SCALE AIR DISTRIBUTION SOUTH HALF
- NOTE: DUCT SIZES ARE NET FREE AREA I.D.
ACTUAL DUCT SIZE IS LARGER WHEN
LINED WITH SOUND ATTENUATION LINER.
- DUCT LINED WITH SOUND ATTENUATION LINER
3. COORDINATE DUCTS LOCATION WITH MONORAIL
HANGER RODS AT THIS LOCATION



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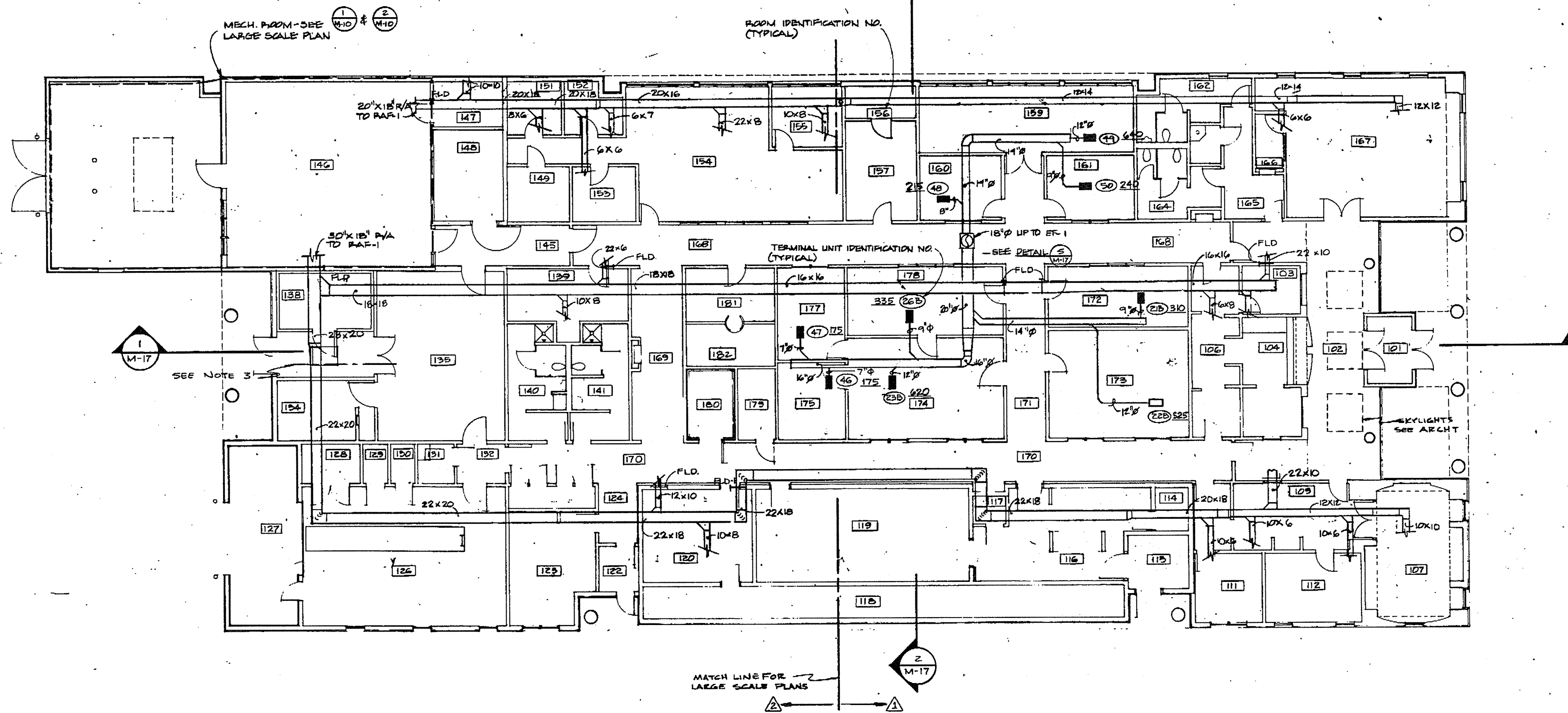
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DESIGN GROUP 1 - CIVIL/MECHANICAL
PROJECT NUMBER 83-70

FLOOR PLAN-RETURN &
EXHAUST DUCTWORK MAINS

JOB NO. 83-70

M 5
OF 18

DATE 13 JULY 84



SHEET NOTES

- 1 SEE 1 M-9 FOR LARGE SCALE AIR DISTRIBUTION NORTH HALF
- 2 SEE 2 M-10 FOR LARGE SCALE AIR DISTRIBUTION SOUTH HALF
- 3 COORDINATE DUCTS LOCATION WITH MONORAIL HANGER RODS AT THIS LOCATION

1 FLOOR PLAN - RETURN & EXHAUST DUCTWORK MAINS
1/8" = 1'-0"





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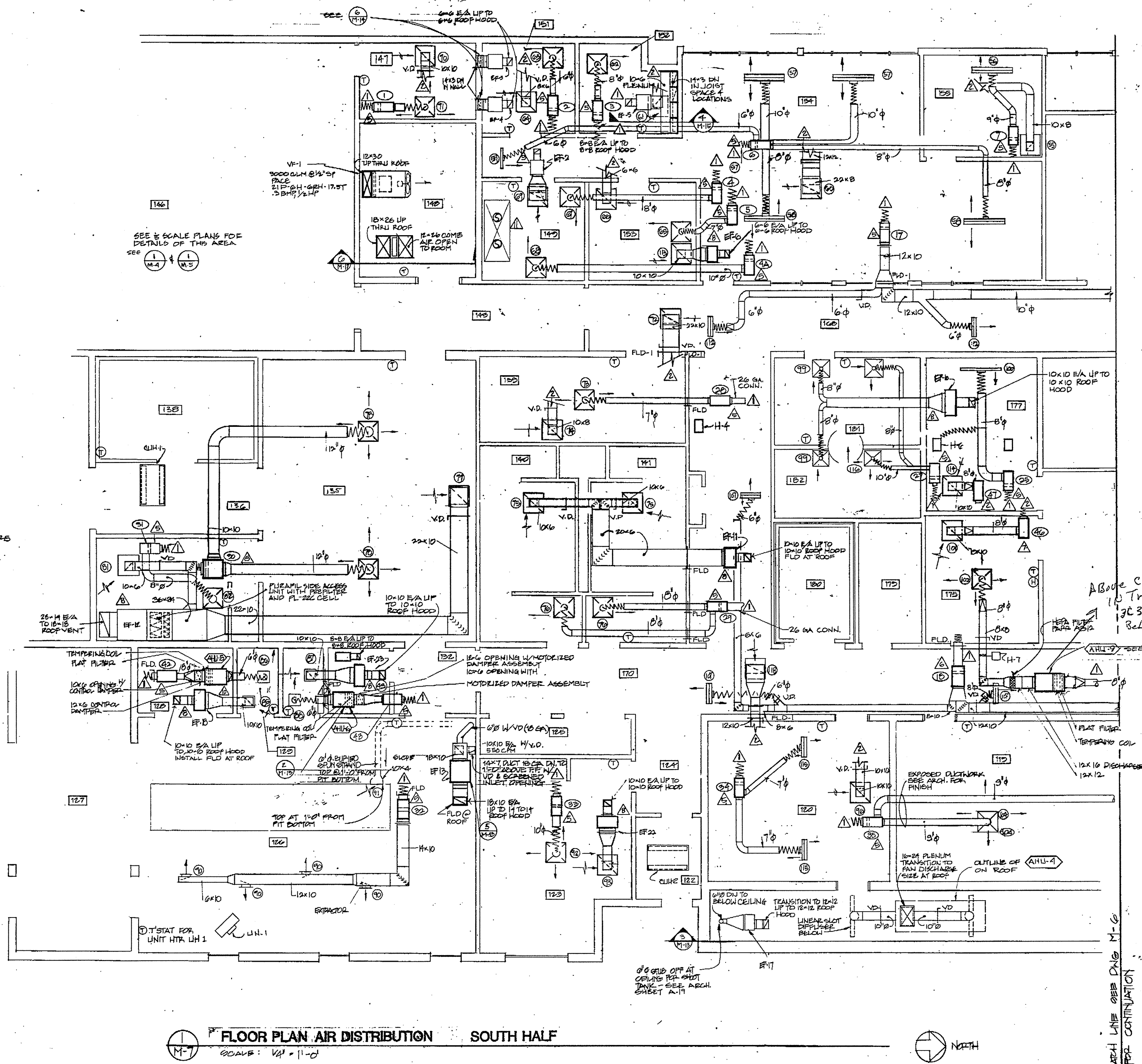
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DESIGN GROUP 1 - CENTRAL REGION
PROJECT NUMBER A-1002

**FLOOR PLAN - AIR DISTRIBUTION
SOUTH HALF**

JOB NO. 83-70

M7

DATE 13 JULY 84



GENERAL NOTES

- ROOMS # 160, 161, 177 SHALL HAVE HALON FIRE PROTECTION SYSTEM. PROVIDE MOTORIZED TYPE FIRE DAMPERS IN O/A, S/A & RETURN AIR DUCTS SERVING THOSE ROOMS AS REQUIRED TO COMPLY WITH NFPA & UBC CODES. DAMPERS WILL CLOSE UPON ACTIVATION OF THE HALON SYSTEM.
- ROOF MOUNTED O/A OR E/A HOOD IS PENN AIRETTE. SIZES VARY IN 25 LOCATIONS. PROVIDE THE HOOD TO MATCH CFM CAPACITY OF THE FAN.
- DIFFUSERS, GRILLES, REGISTERS, ARE SHOWN IN APPROX. LOCATION. SEE ARCH REFLECTED CEILING PLANS FOR EXACT LOCATION.
- PROVIDE FIRE DAMPERS ON ALL DUCTS CROSSING 1 HR SEPARATION IN THIS AREA. SEE ARCH PLAN FOR REFERENCE, ROOM 120, 123, 130 AND 126.

SHEET NOTES

- SEE 1 M-4 FOR SUPPLY DUCTWORK MAPS.
- SEE 1 M-5 FOR RETURN & EXHAUST DUCTWORK MAPS.
- SEE 1 M-6 FOR TERMINAL UNIT HYDRONIC PIPES.
- SEE 4 M-17 FOR DUCT CONSTRUCTION DETAILS.
- SEE 5 M-14 SUPPLY AIR TERMINAL REHEAT BOX DETAIL.
- SEE 7 M-14 EXHAUST AIR TERMINAL BOX DETAIL.
- SEE 5 M-15 CABINET EXHAUST FAN DETAIL.
- SEE 6 M-13 UTILITY EXHAUST FAN DETAIL.
- SEE 2 M-15 AIR HANDLER INSTALLATION DETAIL.
- SEE 1 M-14 FUME HOOD CONNECTION DETAIL.

12 FOR CONTROL DIAGRAMS SEE SHEET 11.
13 FOR PIPING DIAGRAMS SEE SHEET 12.

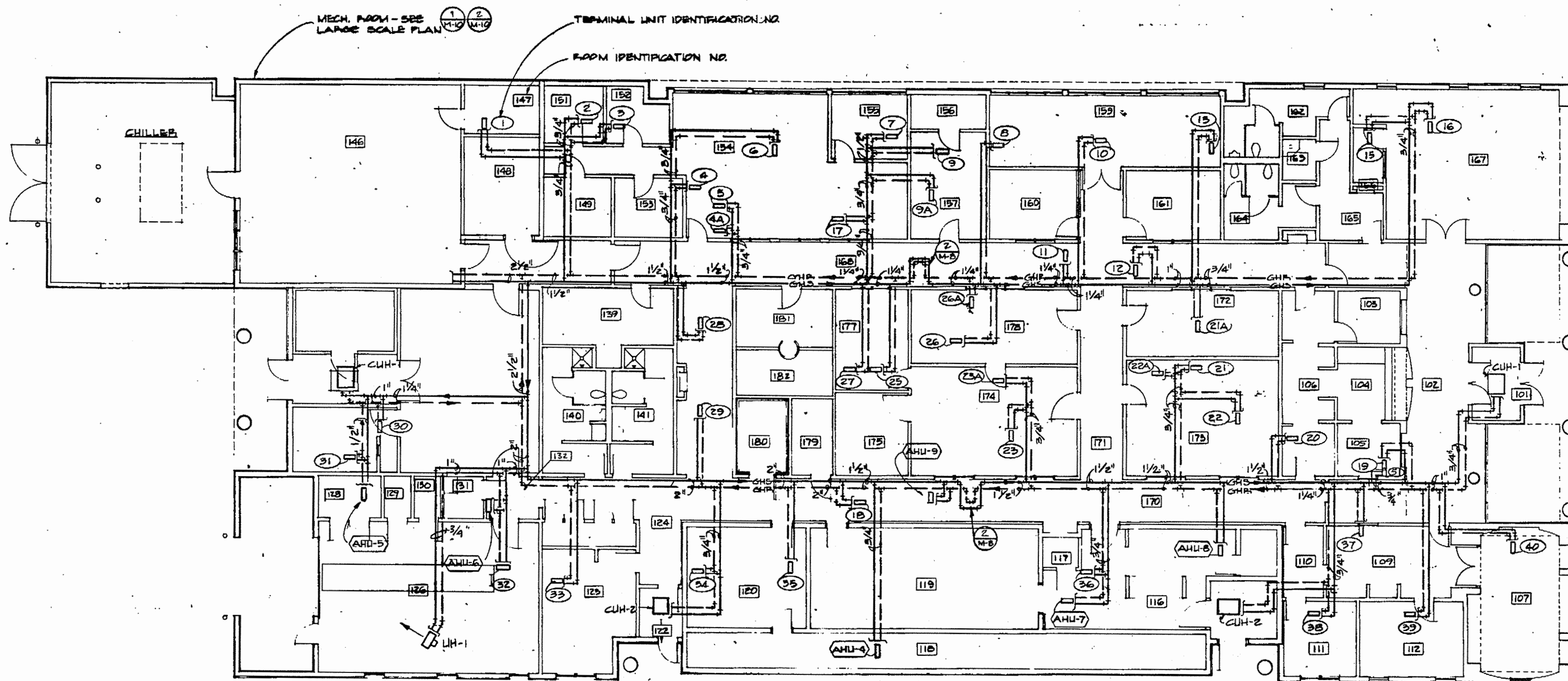


FLOOR PLAN AIR DISTRIBUTION SOUTH HALF

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

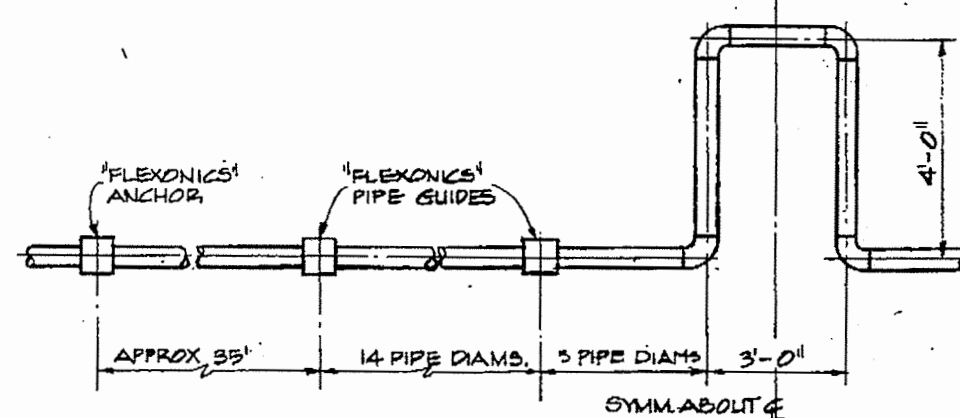


MATCH LINE SEE DWG M-6
FOR CONTINUATION



NOTE: ONLY TERMINAL UNITS AND AHUS WITH TEMPERING COIL SHOWN ON THIS PLAN.

1 FLOOR PLAN TERMINAL UNIT HYDRONIC PIPING
1/8" = 1'-0"



2 EXPANSION LOOP DETAIL
NO SCALE TYP FOR SUPPLY & RETURN



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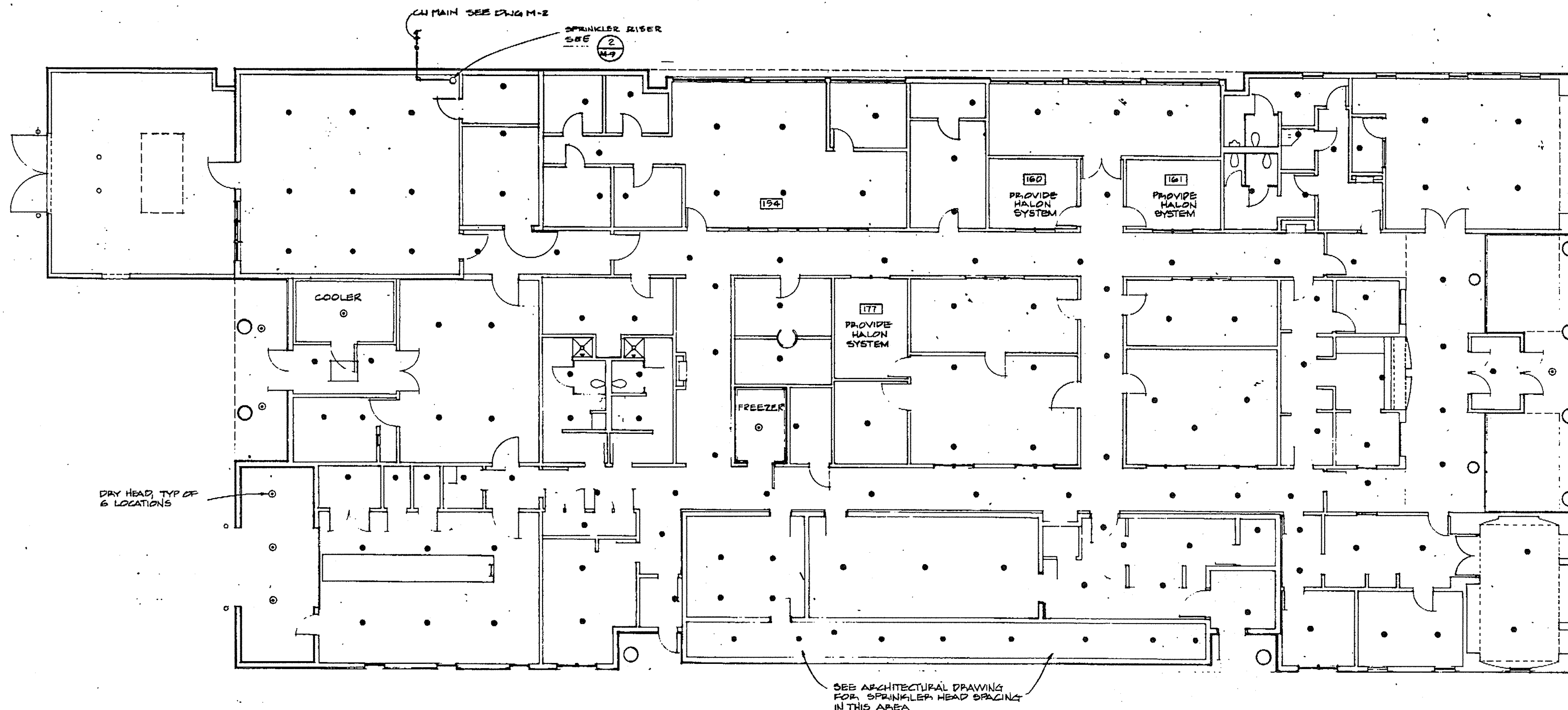
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PROJECT NO. 83-70

FLOOR PLAN-TERMINAL
UNIT HYDRONIC PIPING

JOB NO. 83-70

M8
OF 19

DATE 13 JULY 84



1 FLOOR PLAN - FIRE SPRINKLER SYSTEM
SCALE: 1/8" = 1'-0"

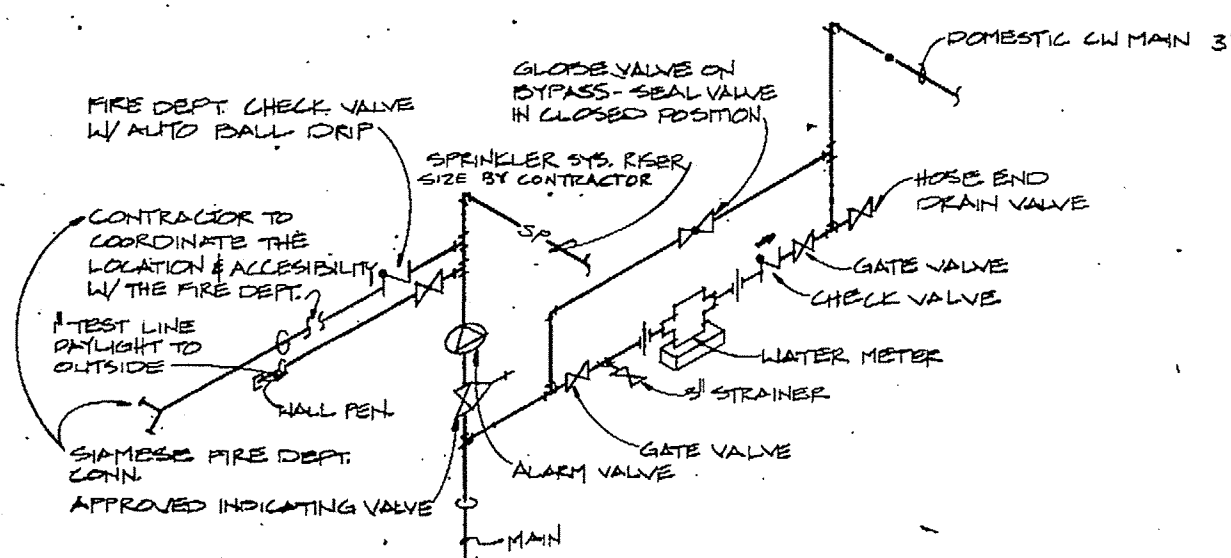
NOTES

- ALL AREAS ARE LIGHT HAZARD EXCEPT AS NOTED BELOW.
ROOM NO. HAZARD
159 ORDINARY HAZARD
161 ORDINARY HAZARD
162 ORDINARY HAZARD
172 ORDINARY HAZARD
173 ORDINARY HAZARD
146 ORDINARY HAZARD
- FURNISH SPRINKLER HEAD WITH A PROPER RATING FOR INCINERATOR AND BOILER ROOM.
- SEE NOTE 1 SHEET M-7

LEGEND

- WET TYPE HEAD
- DRY TYPE HEAD

- PROVIDE MANUAL OVERRIDE SWITCH TO CUT OF THE HALON SYSTEM IN CASE OF ACCIDENTAL HALON DISCHARGE.



2 WATER SERVICE/SPRINKLER DETAIL
NO SCALE



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FLOOR PLAN-FIRE
SPRINKLER SYSTEM

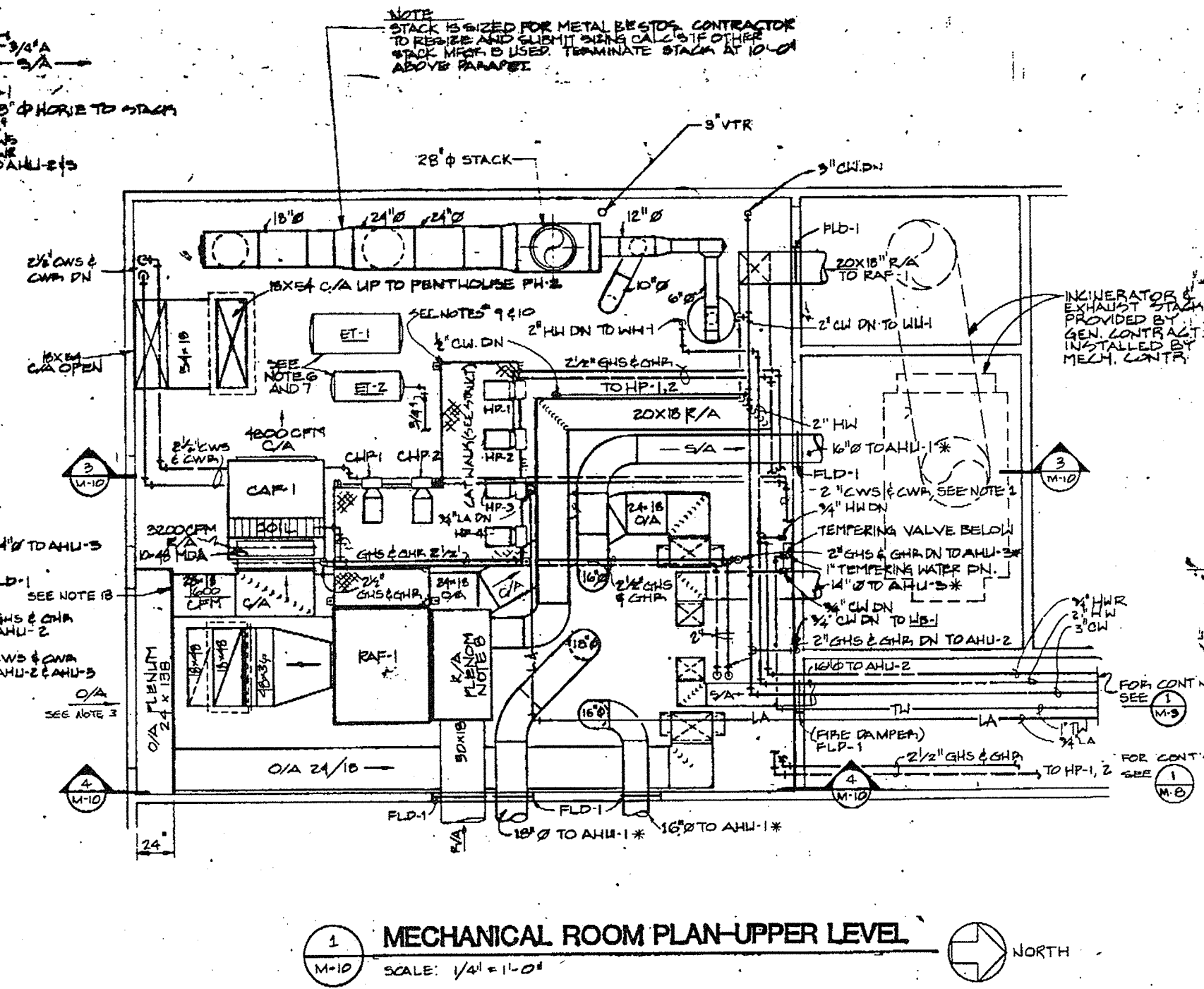
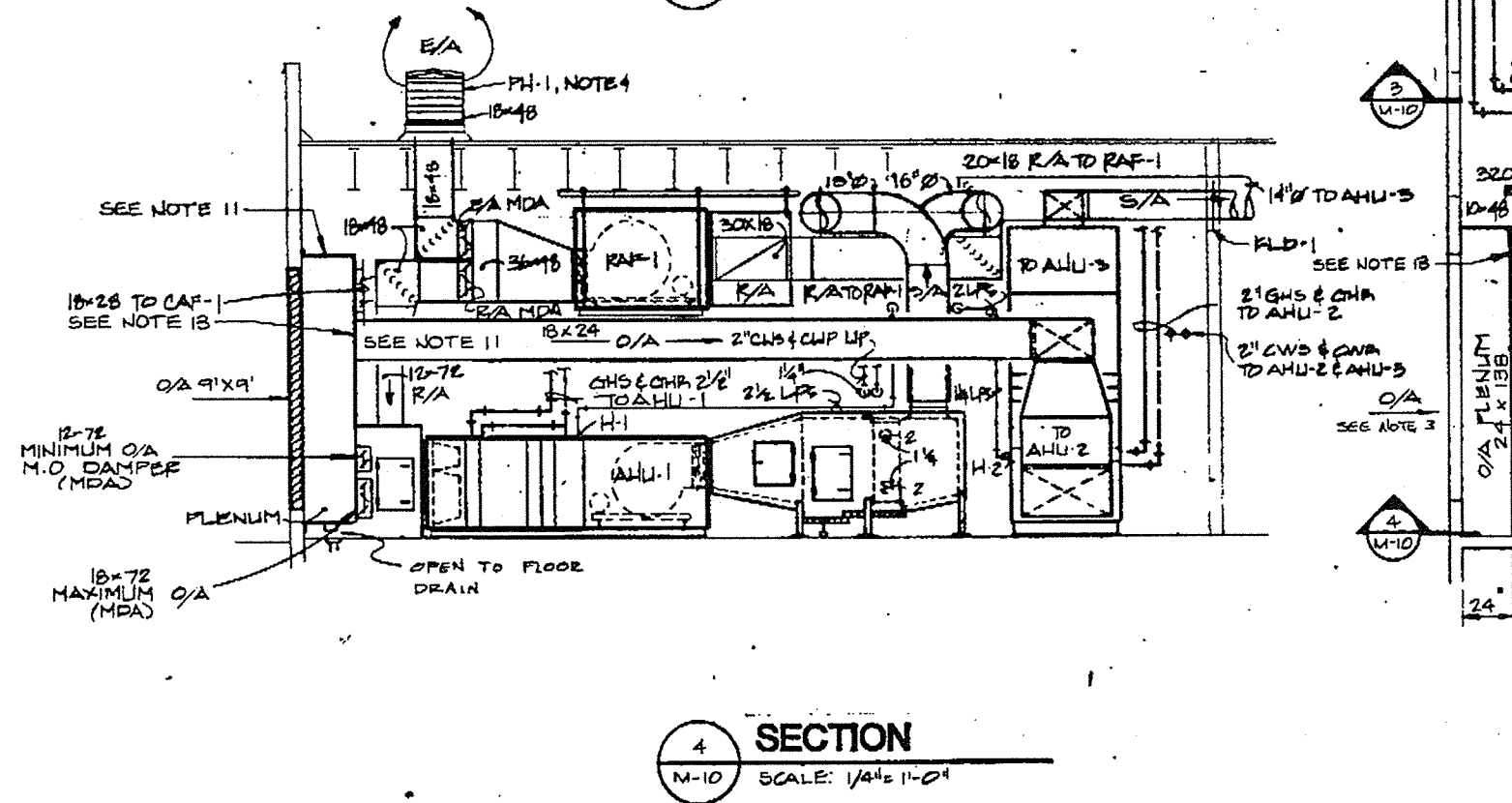
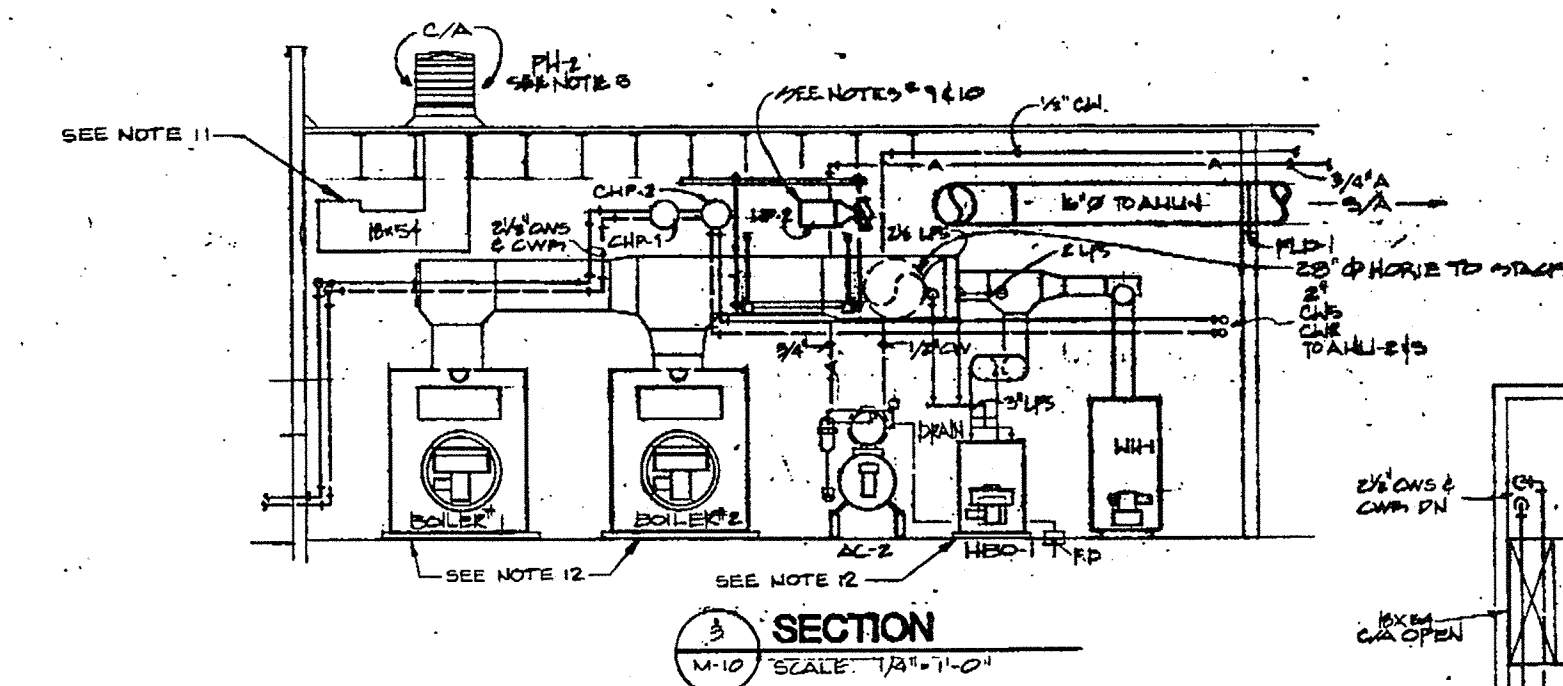
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M9
OF 19

DATE 13 JULY 84

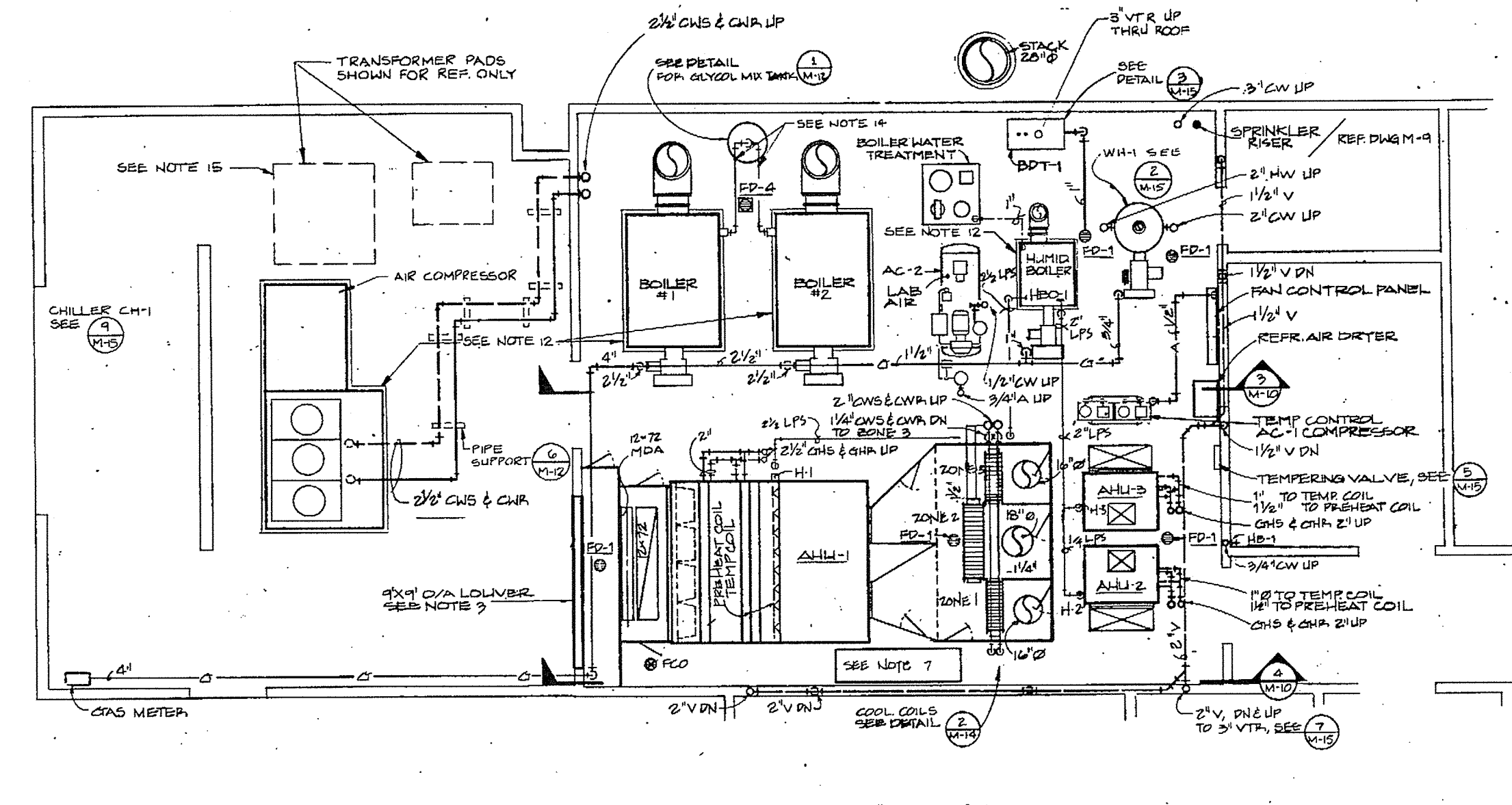
NOTES

- * SEE DWG. M-1 FOR CONTINUATION.
- SEE DWG. M-10 FOR PIPING DIAGRAMS OF HEATING, COOLING & HUMIDIFICATION SYSTEM.
- O/A LOUVER TO BE PROVIDED AS SPECIFIED ON ARCHITECT PLANS MIN. 50% FREE AREA.
- MIN. 1/2" BIRNBAUM MODEL P-411 20" HIGH FREE AREA SOFT MIN. WITH BIRNBAUM 1/2" MESH FINISH GALVANIZED STEEL.
- 1/2" BIRNBAUM MODEL P-411 20" HIGH FREE AREA 1000 SQ. FT. MIN. WITH BIRNBAUM 1/2" MESH FINISH GALVANIZED STEEL.
- STREET 2 TANKS TO BE SUSPENDED FROM STRUCT TRUSSES. CONTRACTOR TO PROVIDE HANGERS IN TANKS. SUBMIT SHOP DRAWINGS OF THE HANGER SYSTEM.
- FOR CLARITY DETAILED PIPING LAYOUTS OF CHS, CWS, LPS, GHS, HFC AND OTHER PIPING SYSTEMS ARE NOT SHOWN ON THE PLAN. REF. TO NOTE 2.
- R/A PLENUM SHALL BE LINED WITH SOUND ATTENUATION LINER.
- CHILLED WATER & HEATING CIRCULATING PUMPS ARE NOT SUPPORTED BY THE CATWALK STRUCTURE. PUMPS ARE HUNG FROM C/LA BY MEANS OF PIPE HANGERS AS PER SPEC'S.
- USE A PORTABLE MAINTENANCE LADDER FOR AN ACCESS TO THE CATWALK PLATFORM.
- SEE SPEC'S FOR INSULATION APPLICATION. ALL DUCT INSULATION EXPOSED IN MECHANICAL ROOMS (AND FINISHED AREAS) TO BE COVERED WITH CANVAS JACKET ADHERED WITH LAGGING ADHESIVE.
- CONCRETE HOUSEKEEPING PADS. SEE STRUCTURAL FOR DETAILS.
- O/A DUCT 18" X 24" TO AHU-3 CONNECTS TO O/A PLENUM IN SAME ELEVATION 18" X 24" O/A DUCT TO AHU-2 AND IS LOCATED BELOW 18" X 18" O/A DUCT TO CAF-1 FAN.
- ROUTE BOILER T&P RELIEF VALVE DISCHARGE LINES TO GLYCOL MIXING TANK.
- COORDINATE CHILLER PIPING WITH LOCATION OF TRANSFORMERS. ROUTE PIPING TO CLEAR TRANSFORMERS IN THIS AREA, REF. SHEET E-1.

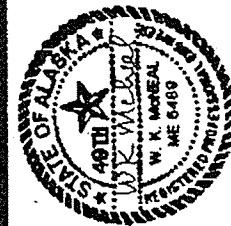


SECTION 3
SCALE: 1/4" = 1'-0"

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



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



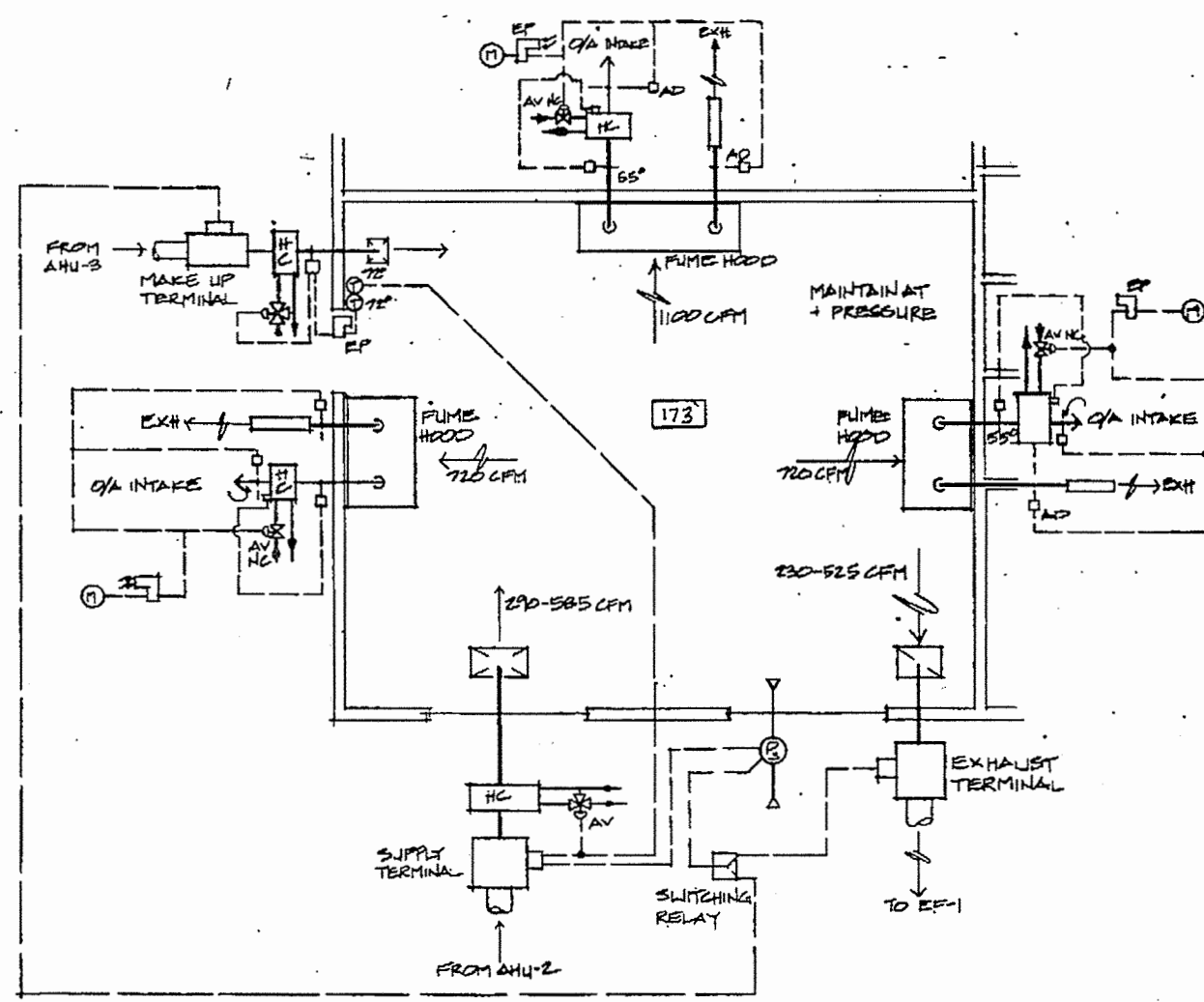
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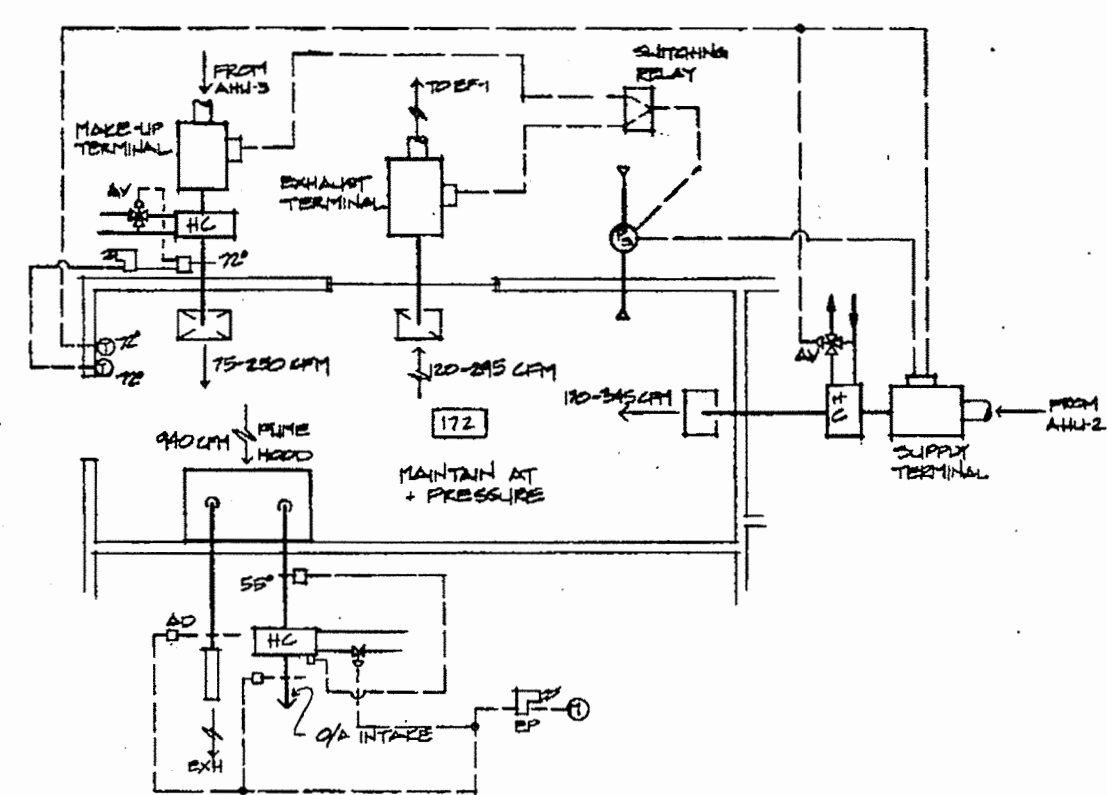
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MECHANICAL ROOM
PLANS AND SECTIONS

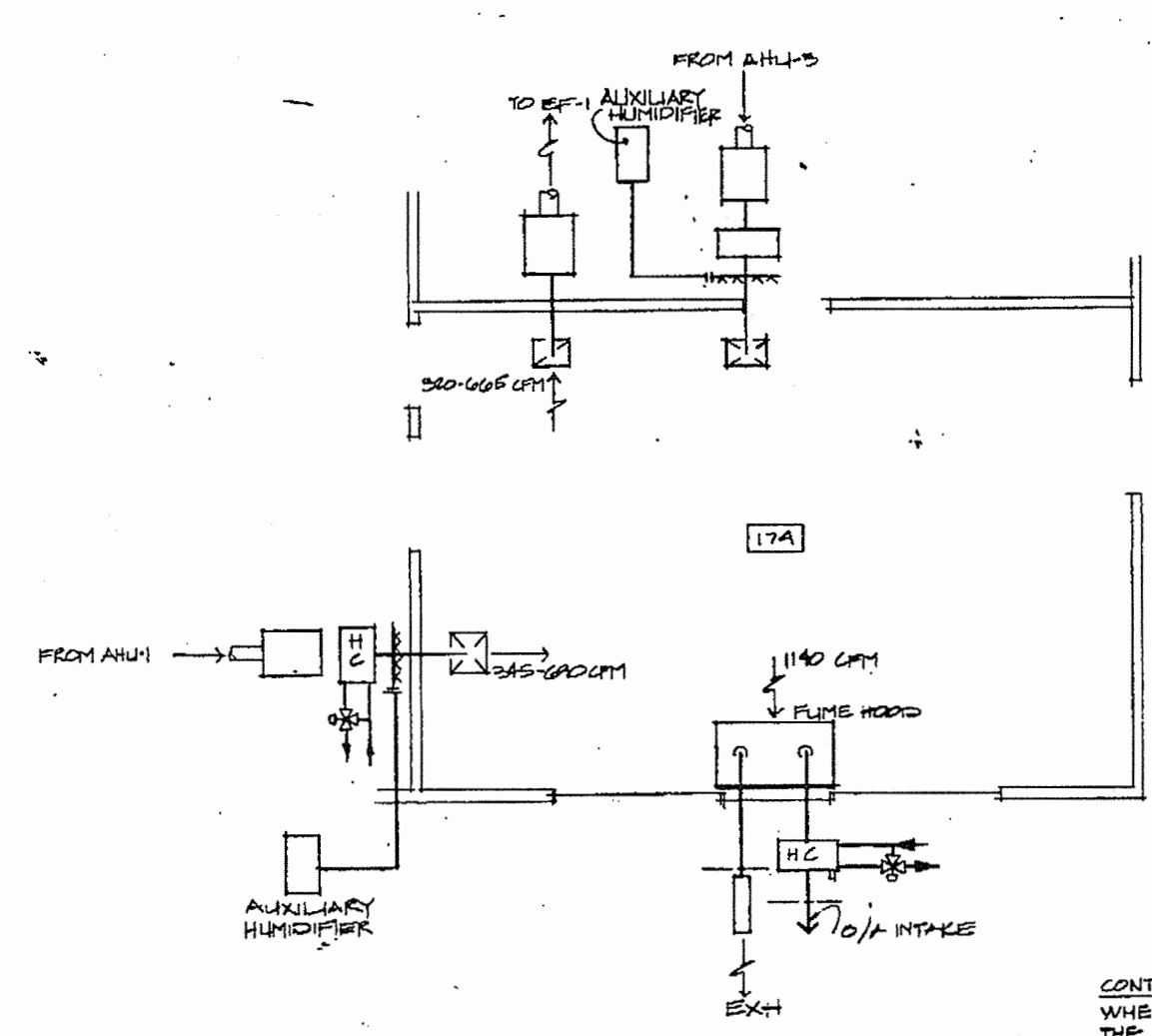
JOB NO. 83-70
M10
OF 19
DATE 13 JULY 84



1 DRUG ANALYSIS
M-11

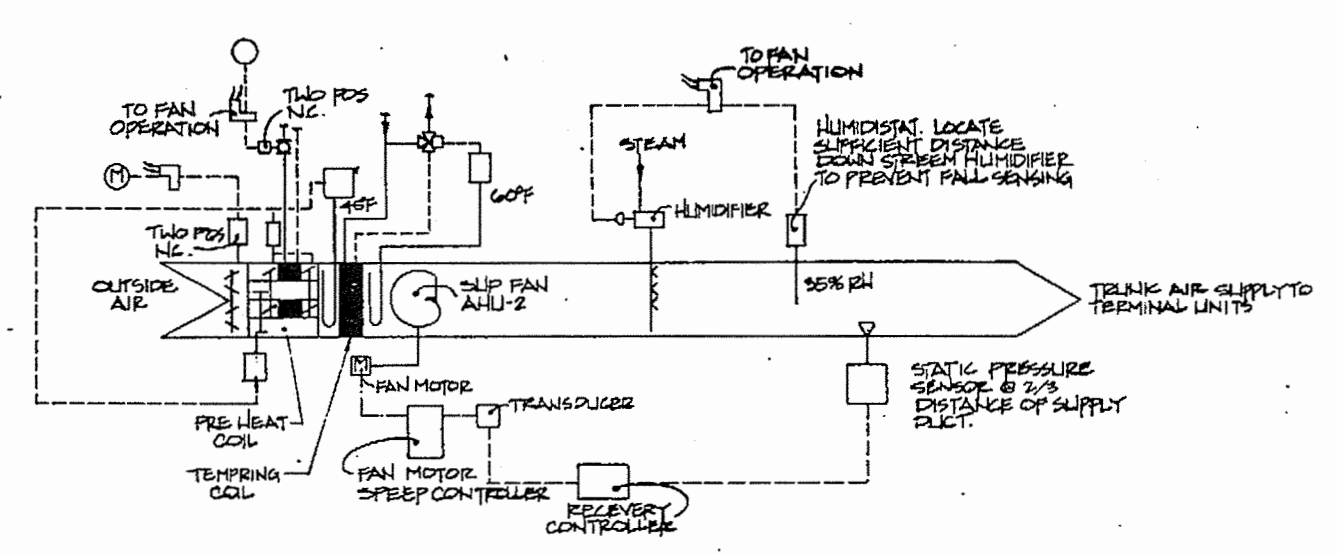


2 TOXICOLOGY
M-11



3 TRACE EVIDENCE
M-11 NO SCALE

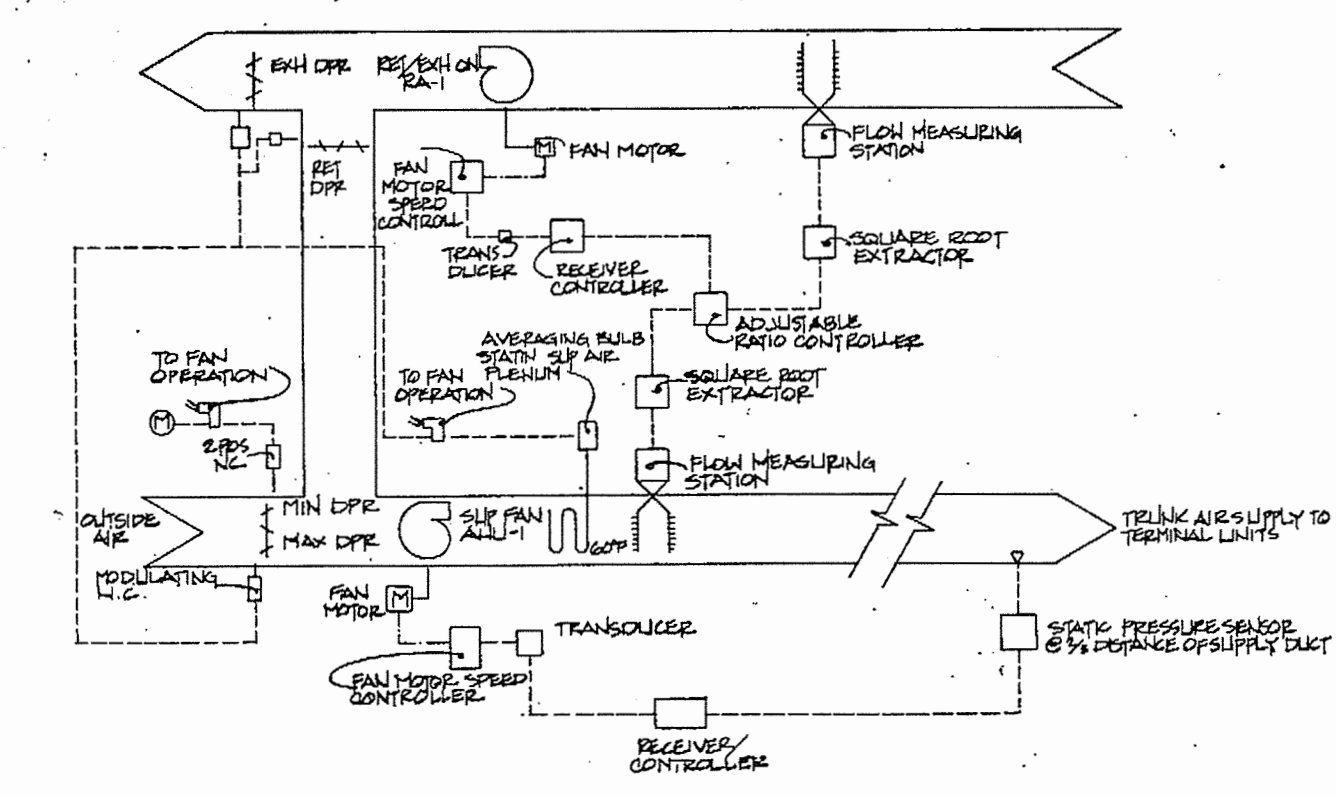
CONTROL SEQUENCE NOTE:
WHEN E/A FUME HOOD COMES ON,
THE VAV SYSTEM E/A TERMINAL BOX
DECOUPLES FROM STATIC PRESSURE
CONTROLLER, AND ALLOWS MAKE UP
AIR BOX TO MAINTAIN THE DESIRED
STATIC PRESSURE IN THE ROOM



5 AIR HANDLING SYSTEM AHU-2
M-11 (AIR HANDLING SYSTEM AHU-3 IS INTERLOCKED WITH AHU-2 AND CONTROL SEQUENCES ARE SIMILAR)

NOTE:
OTHER SPACES WITH SIMILAR CONTROL SCHEMES
TO TOXICOLOGY DRUG ANALYSIS AND TRACE
EVIDENCE ARE:
GLASSWARE #157
NINETY DRAHTS #141
SEROLOGY #176

NOTE:
TEMPERATURE CONTROL DIAGRAMS ARE INTENDED
ONLY AS SUPPLEMENTAL INFORMATION TO THE
CONTROL SECTION OF THE SPECIFICATIONS. NUMBER
OF AND TYPE OF CONTROL DEVICES SHOWN
ON SCHEMATICS DO NOT NECESSARILY INDICATE
THE EXTENT OF THE CONTROL SYSTEM REQUIRED.



4 AIR HANDLING SYSTEM AHU-1
M-11 (PRE-HEAT & TEMPERN COIL CONTROL NOT SHOWN, SIMILAR TO THAT SHOWN ON AHU-2 SCHEMATIC)



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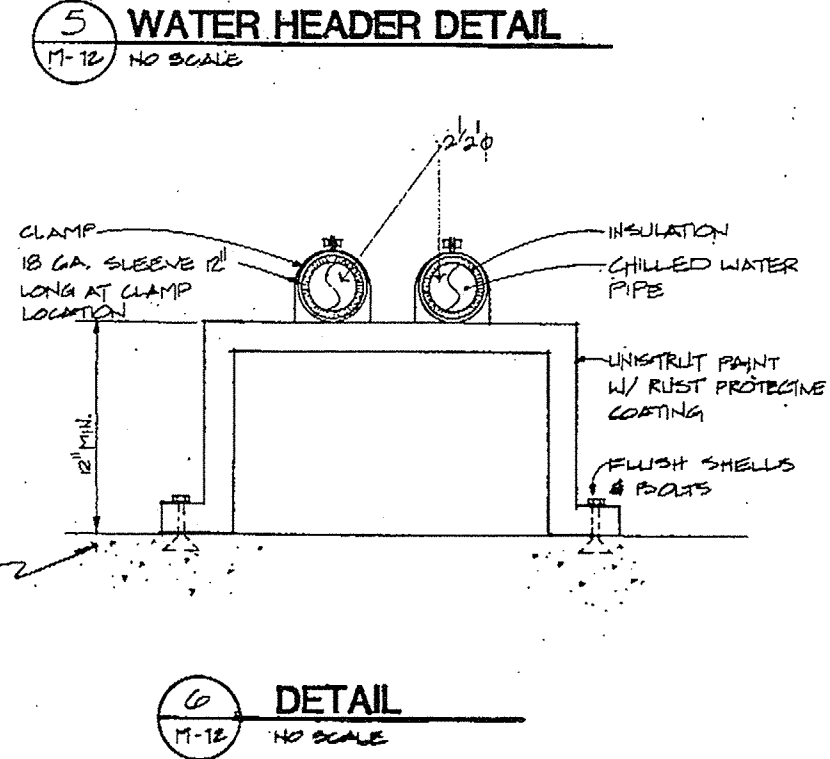
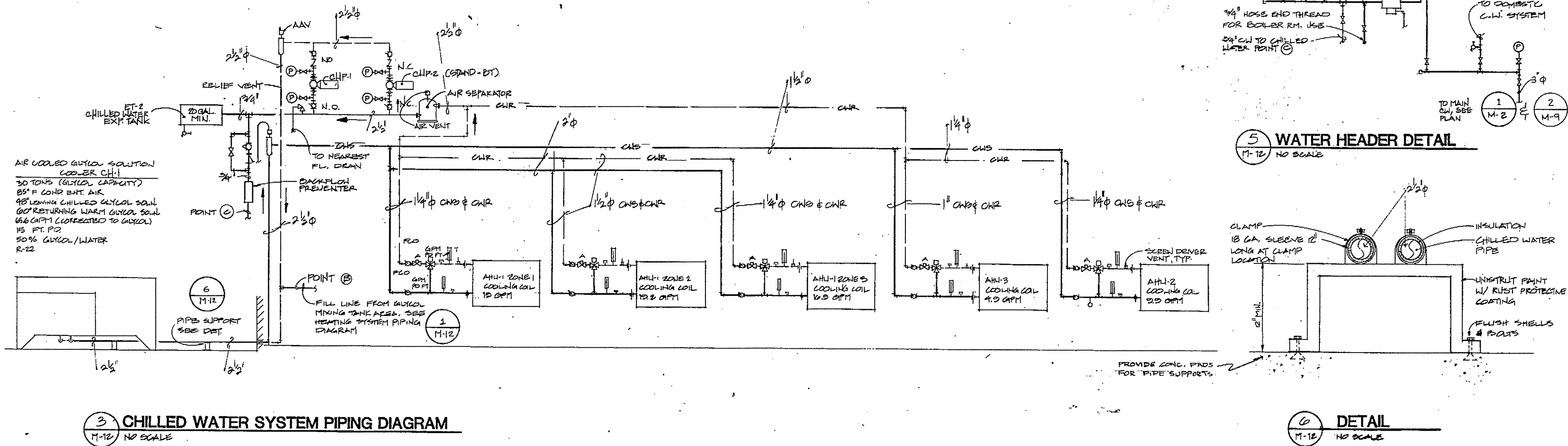
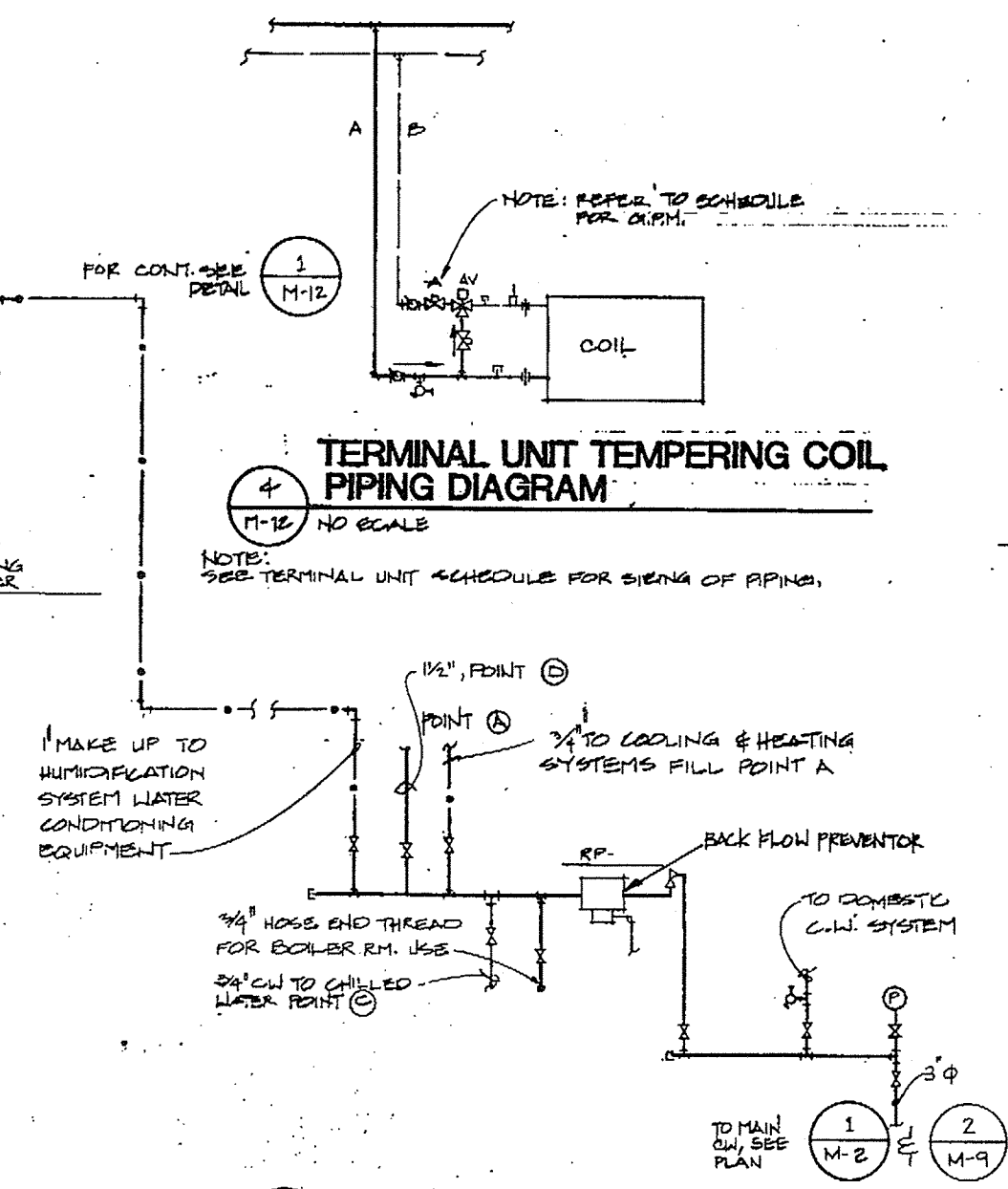
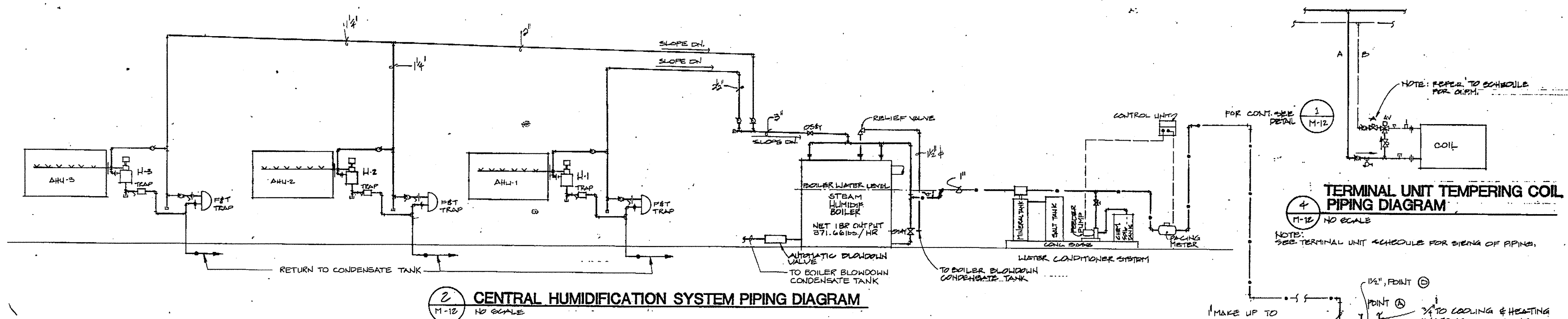
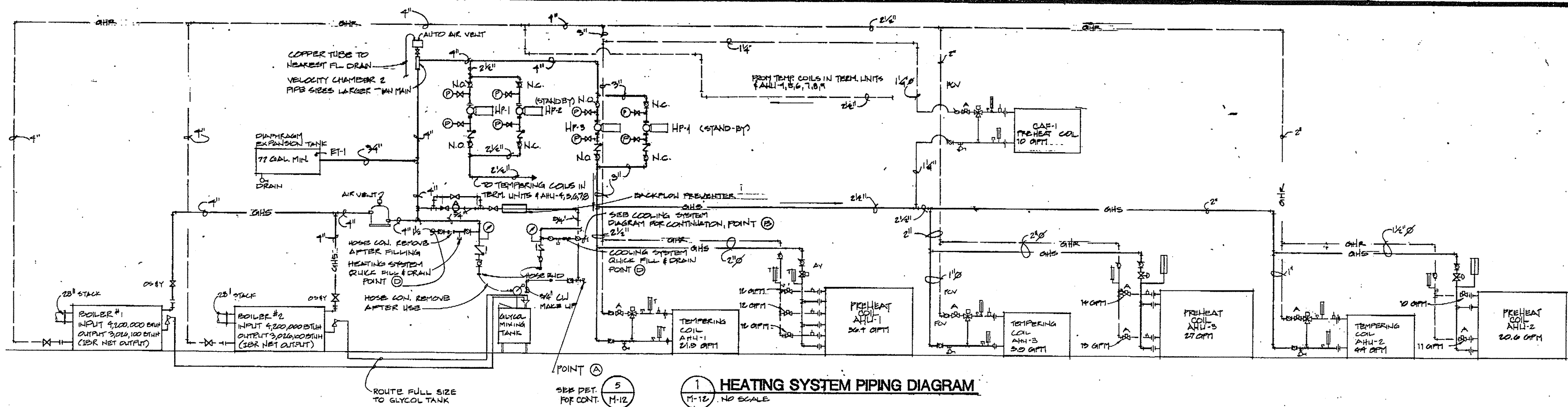
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**TEMPERATURE CONTROL
SCHEMATICS**

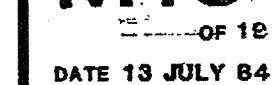
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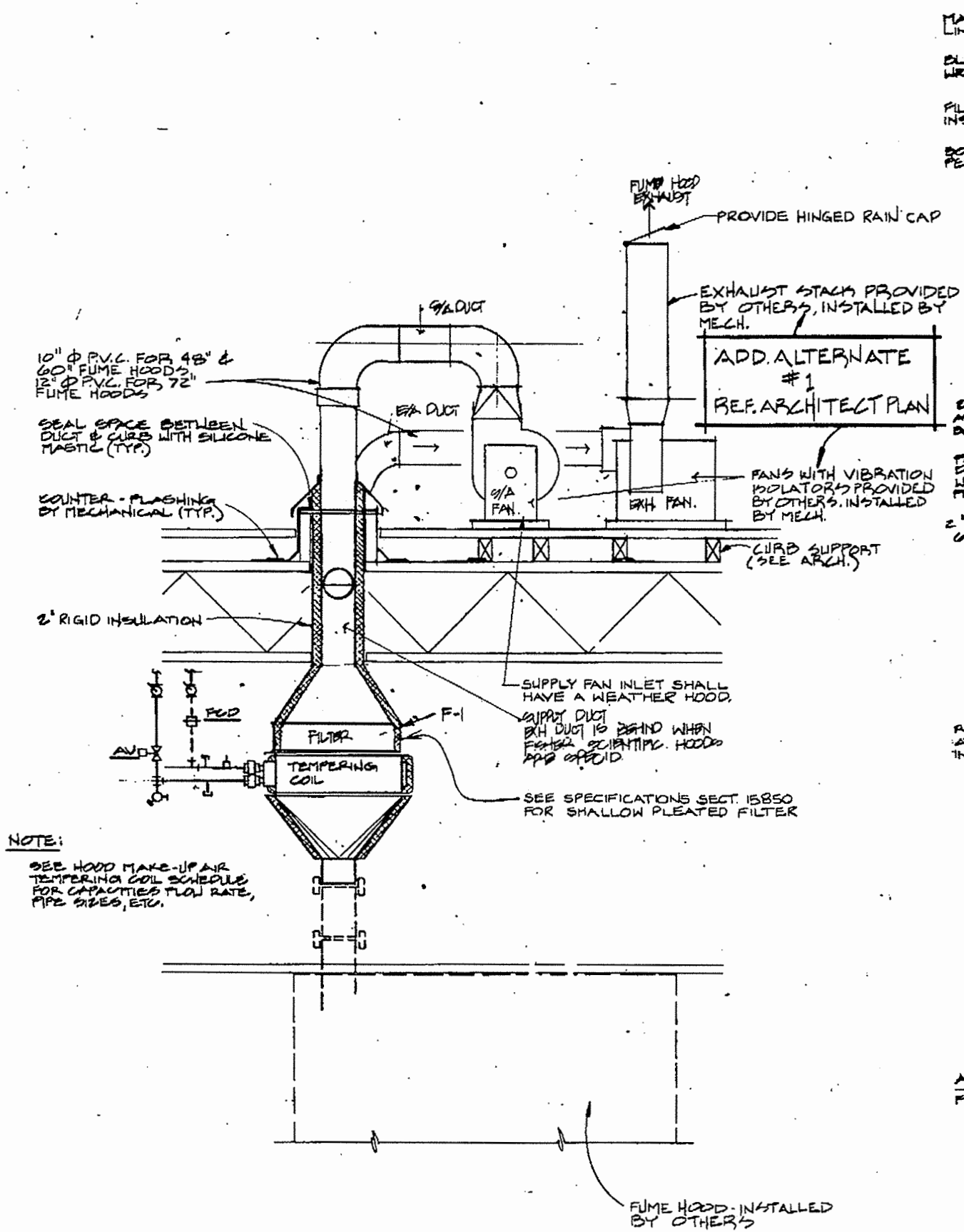
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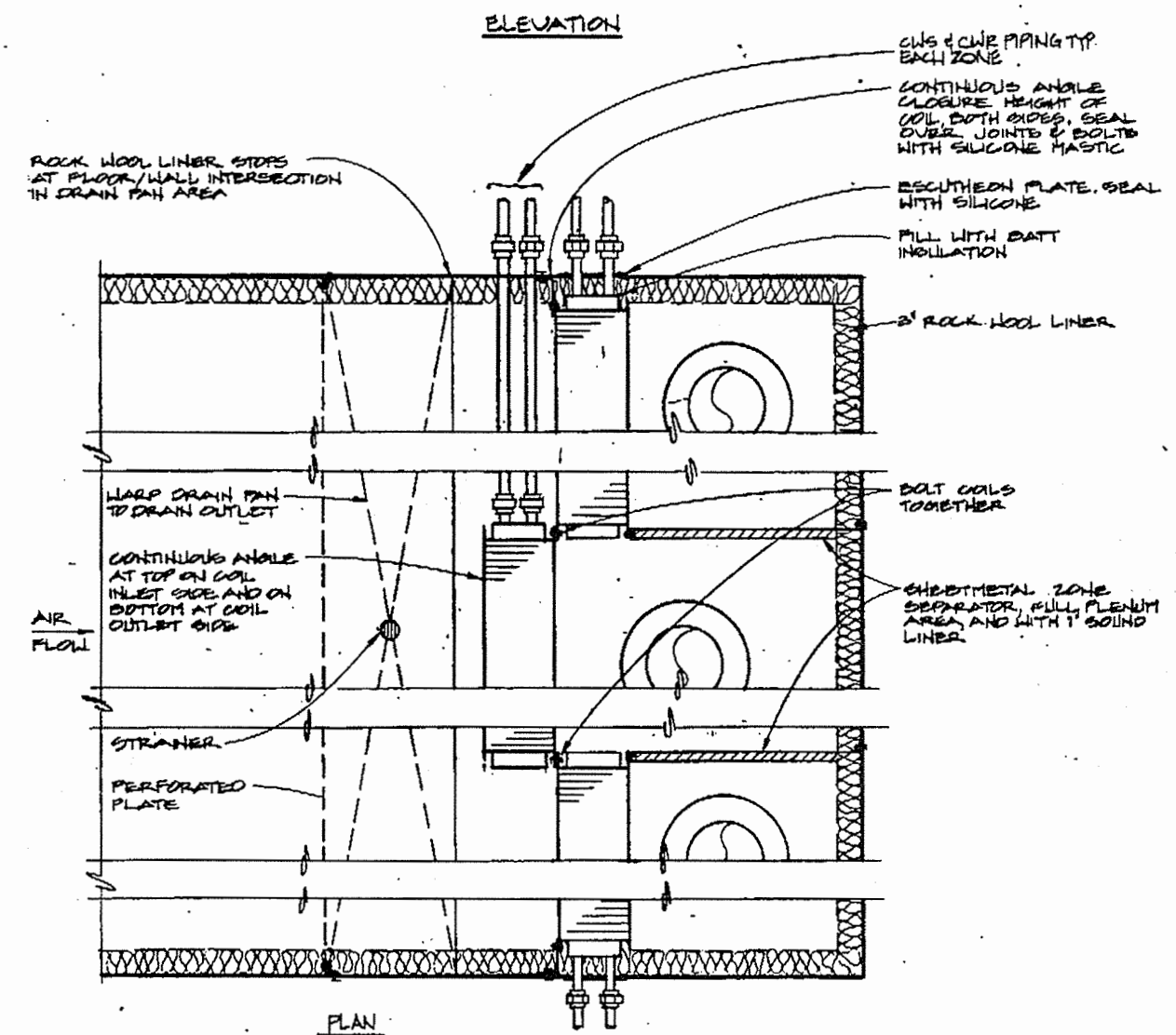
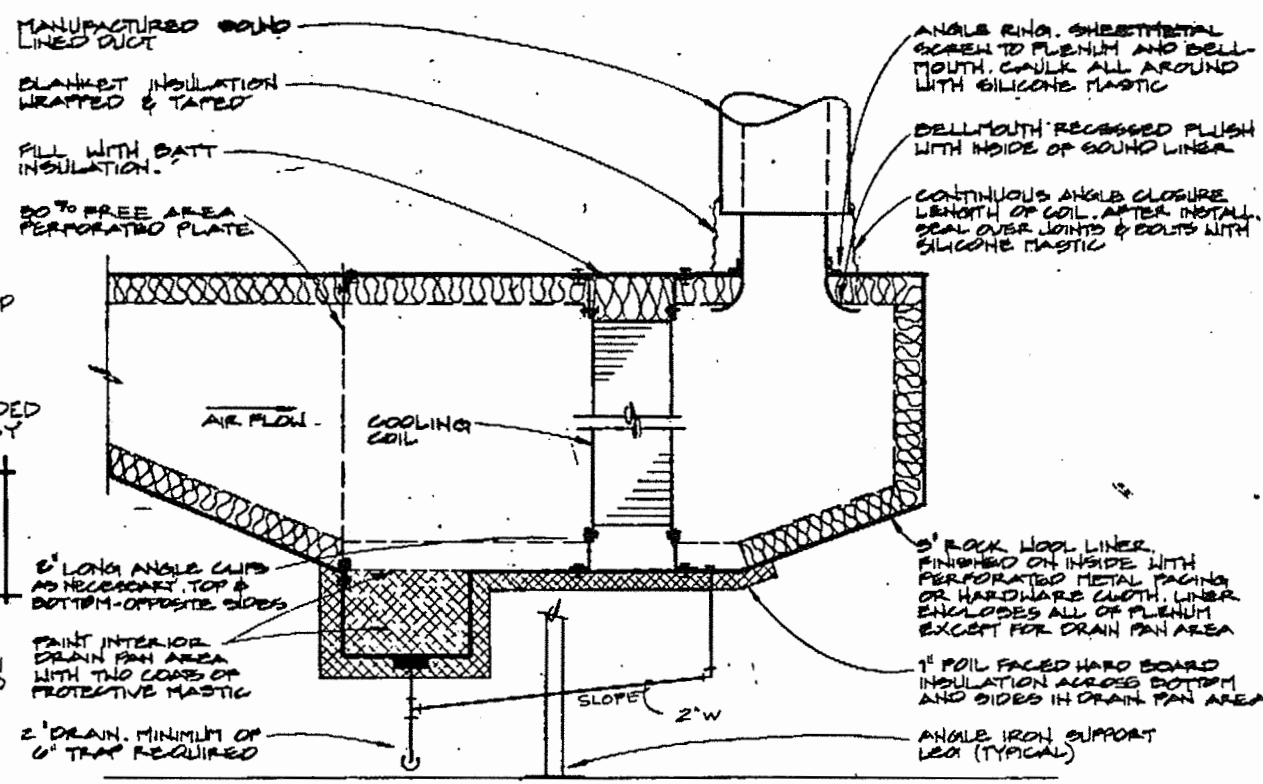
6. UTILITY EXH. FAN DETAIL (TYPICAL)
M-13 NO SCALE





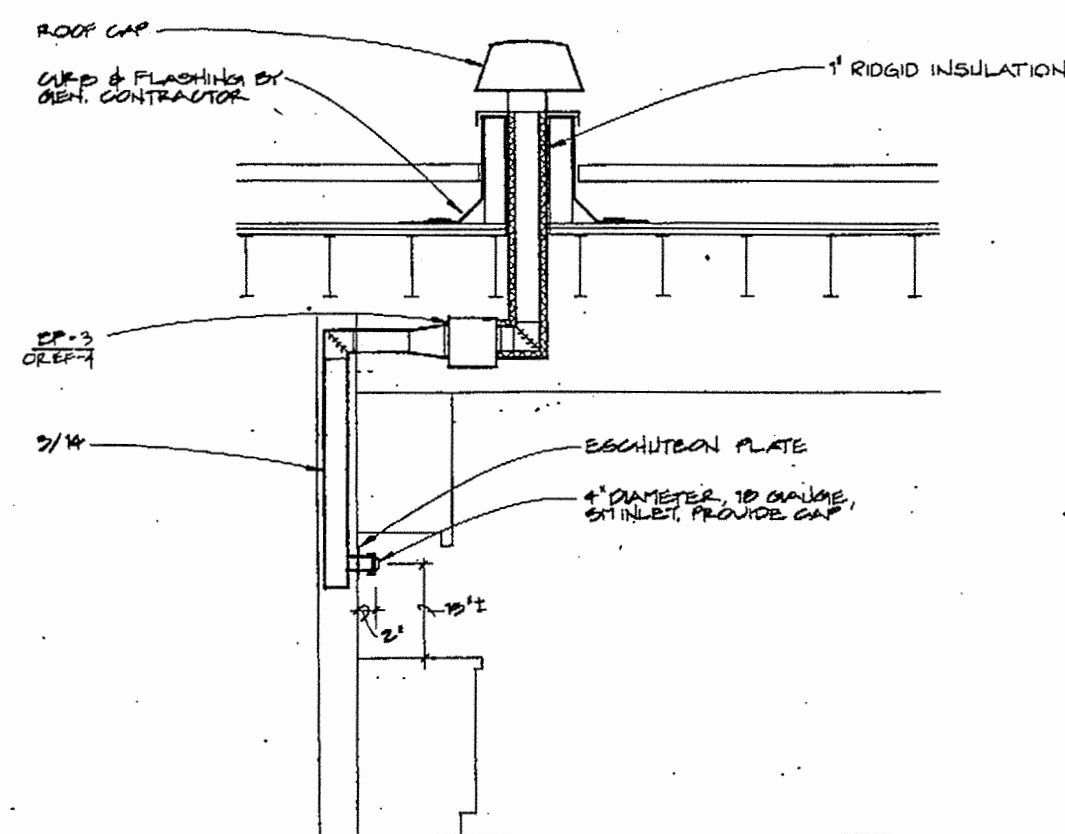
1 FUME HOOD CONNECTION DETAIL

NO SCALE



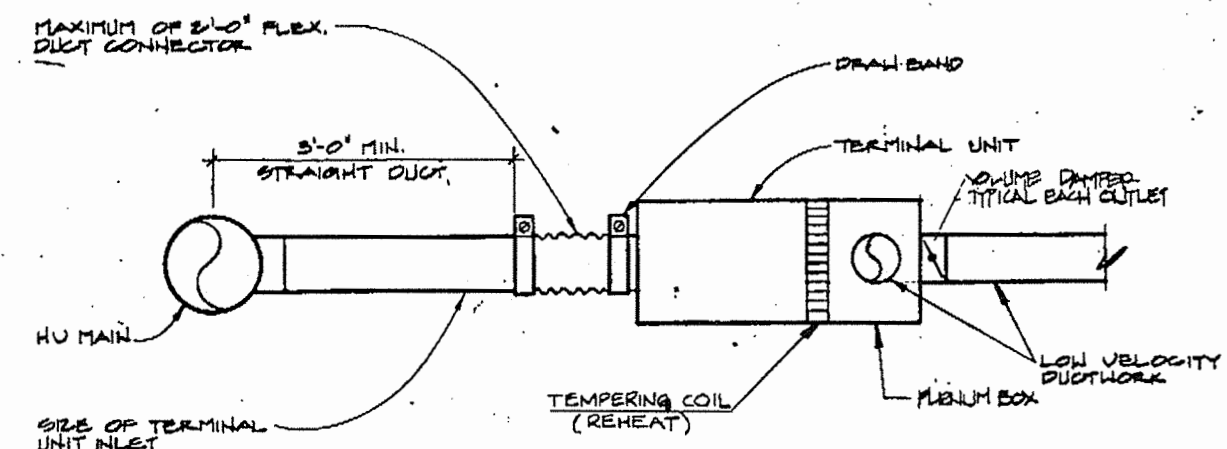
2 ZONE COOLING COIL PLENUM DETAIL

NO SCALE



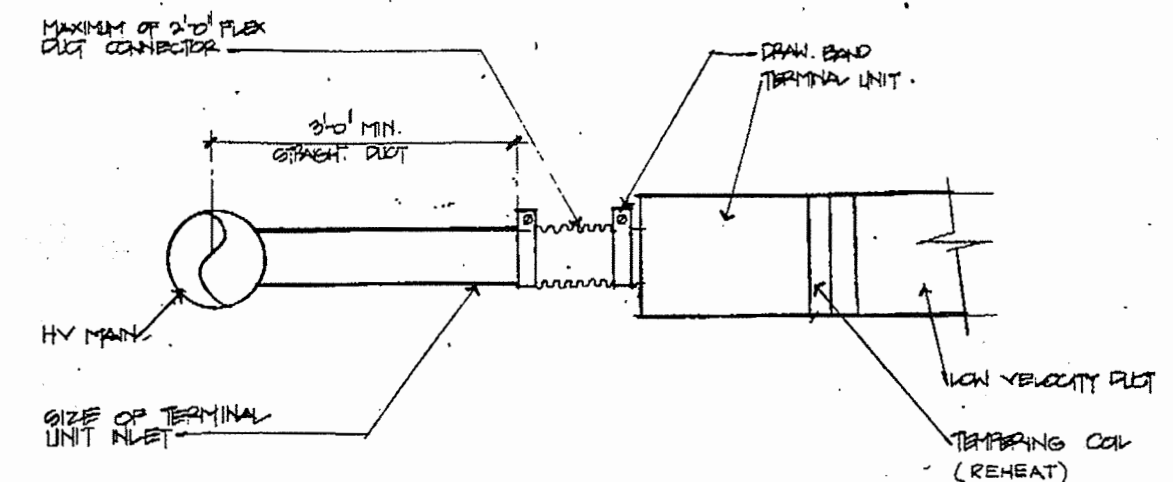
6 EF-3 DETAIL

NO SCALE



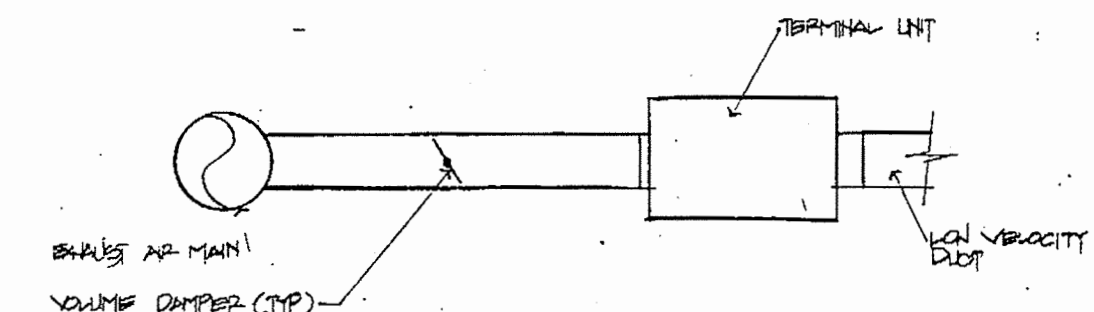
3 SUPPLY AIR TERMINAL REHEAT BOX DETAIL (PLENUM)

NO SCALE



4 SUPPLY AIR TERMINAL REHEAT BOX DETAIL (OPEN END)

NO SCALE



7 EXHAUST AIR TERMINAL BOX DETAIL

NO SCALE



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KEL Kuchek Engineers, Inc.
235 W. 5TH AVE.
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TEL: 503-228-1111
FAX: 503-228-1112
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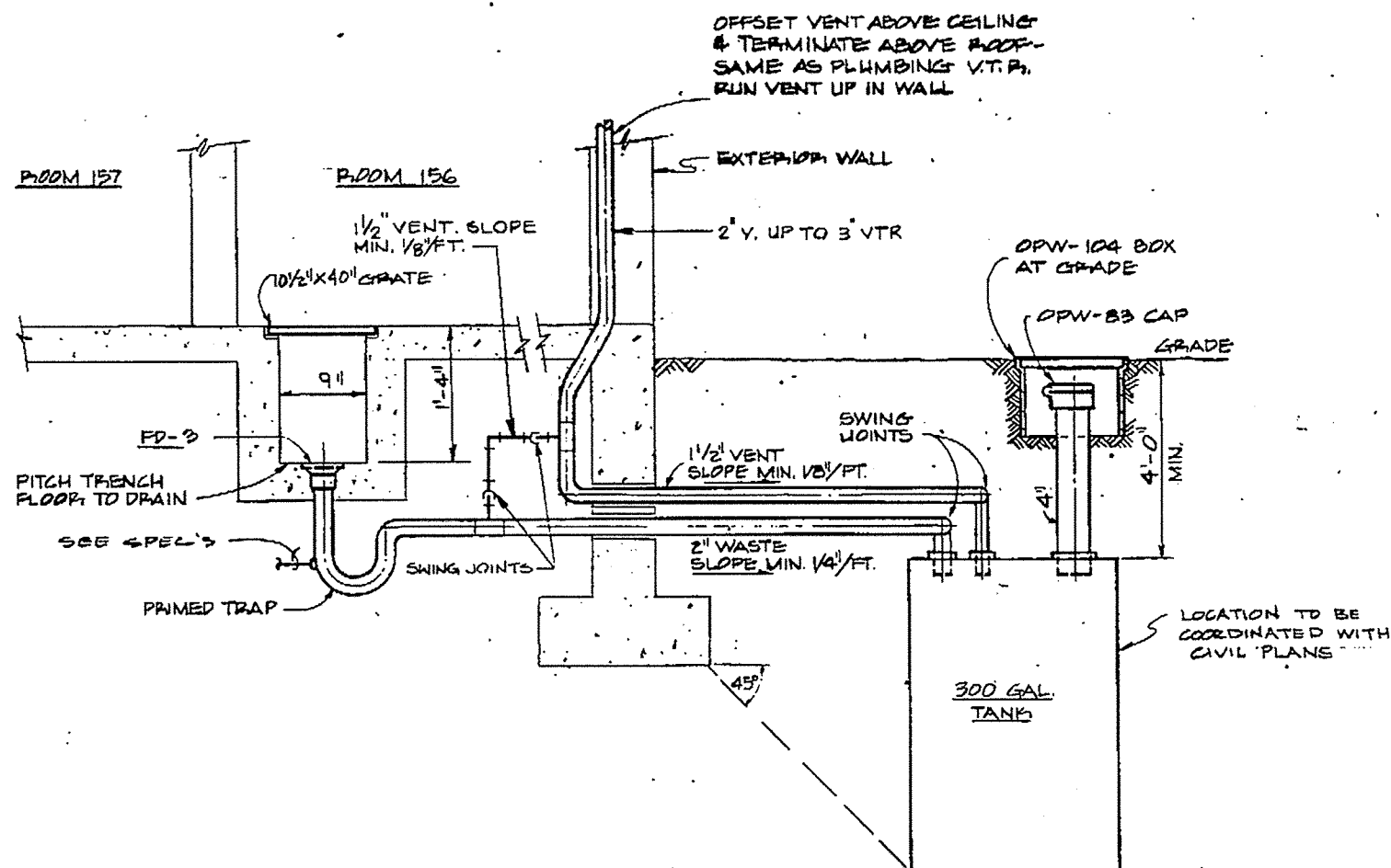
ANCHORAGE STATEWIDE
FORENSIC LABORATORY
STATE OF ALASKA
DEPARTMENT OF CORRECTIONS
AND PUBLIC FACILITIES
DIVISION OF DESIGN AND CONSTRUCTION
DESIGN GROUP 1 - CENTRAL REGION
PROJECT NUMBER 8-1003

DUCT CONSTRUCTION DETAILS

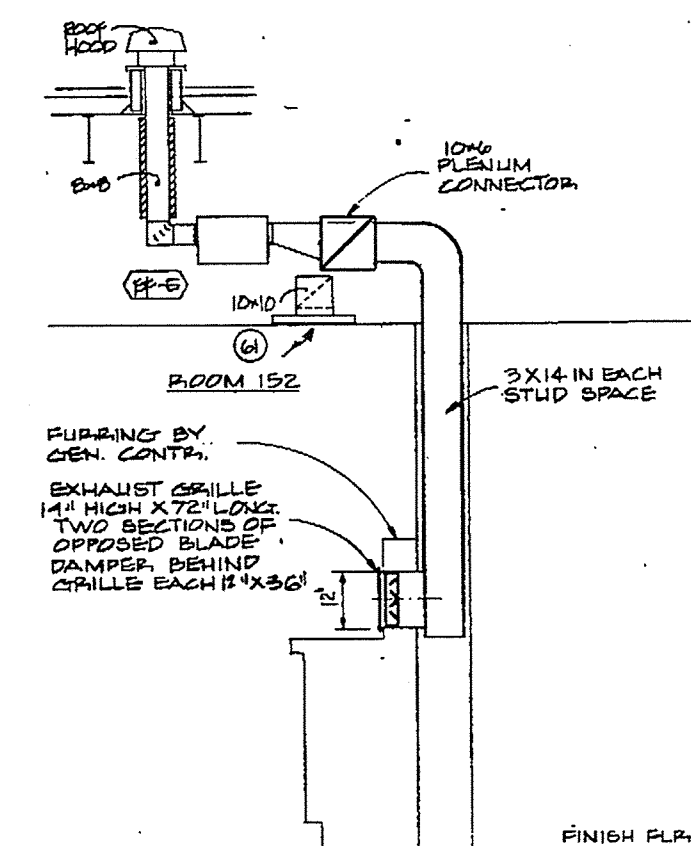
JOB NO. 83-70

M14

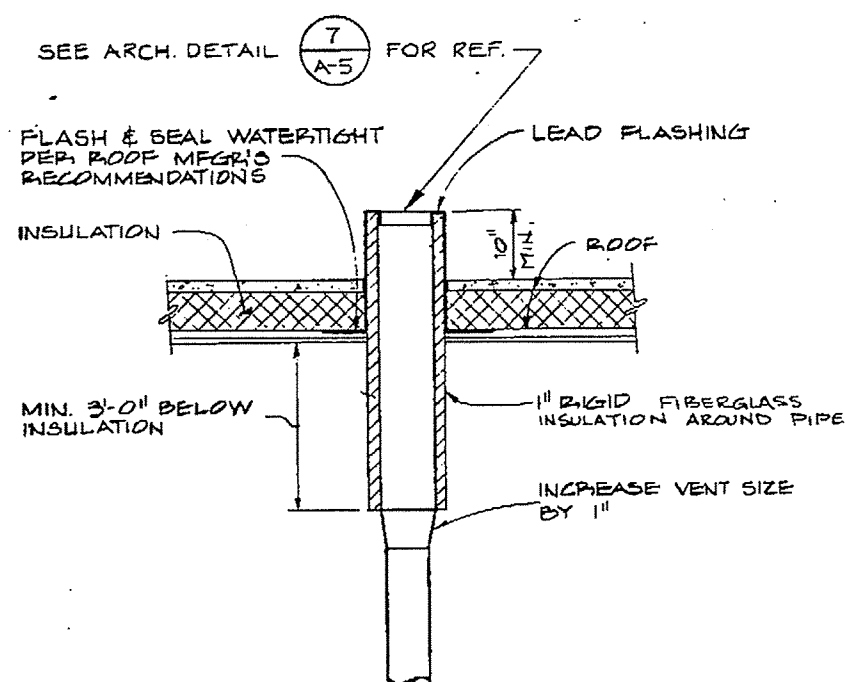
DATE 13 JULY 84



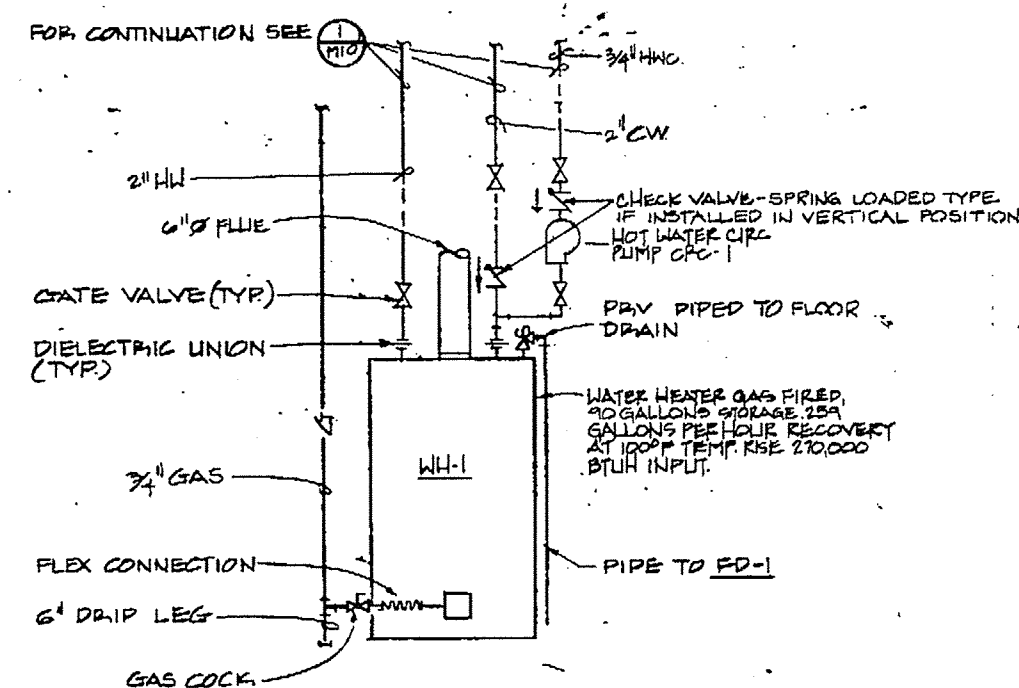
1 CHEMICAL WASTE HOLDING TANK
M-15 NO SCALE



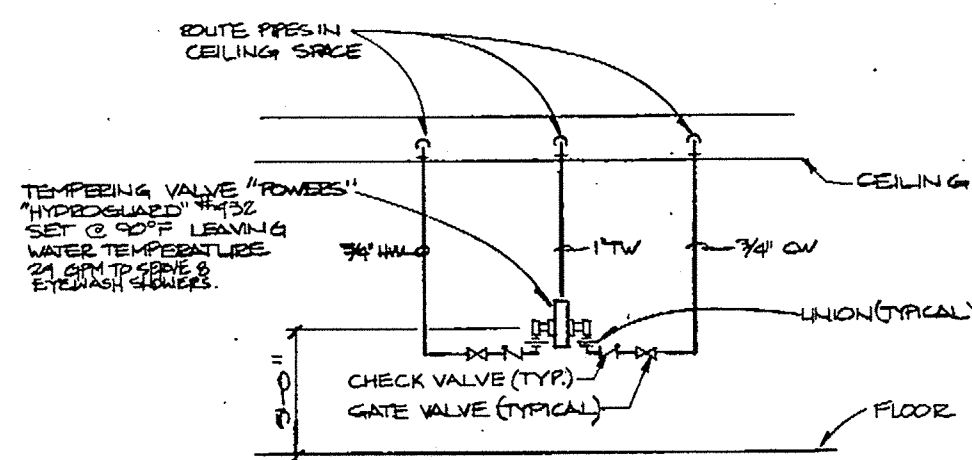
4 FINGERPRINT POWDER BENCH EXHAUST
M-15 NO SCALE



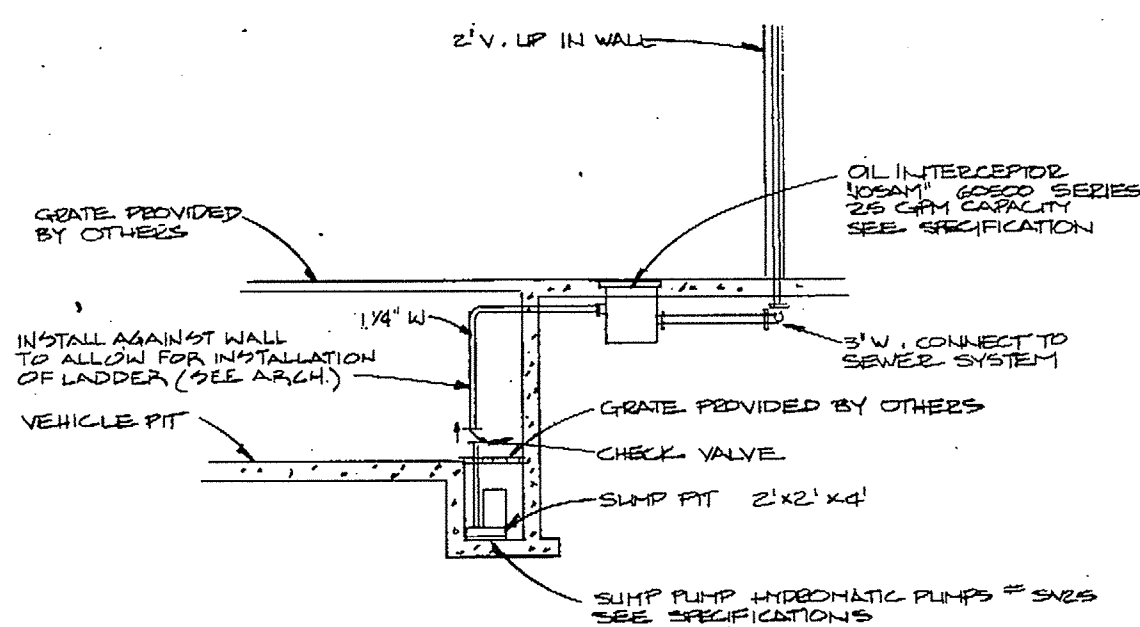
7 VENT THROUGH ROOF DETAIL
M-15 NO SCALE



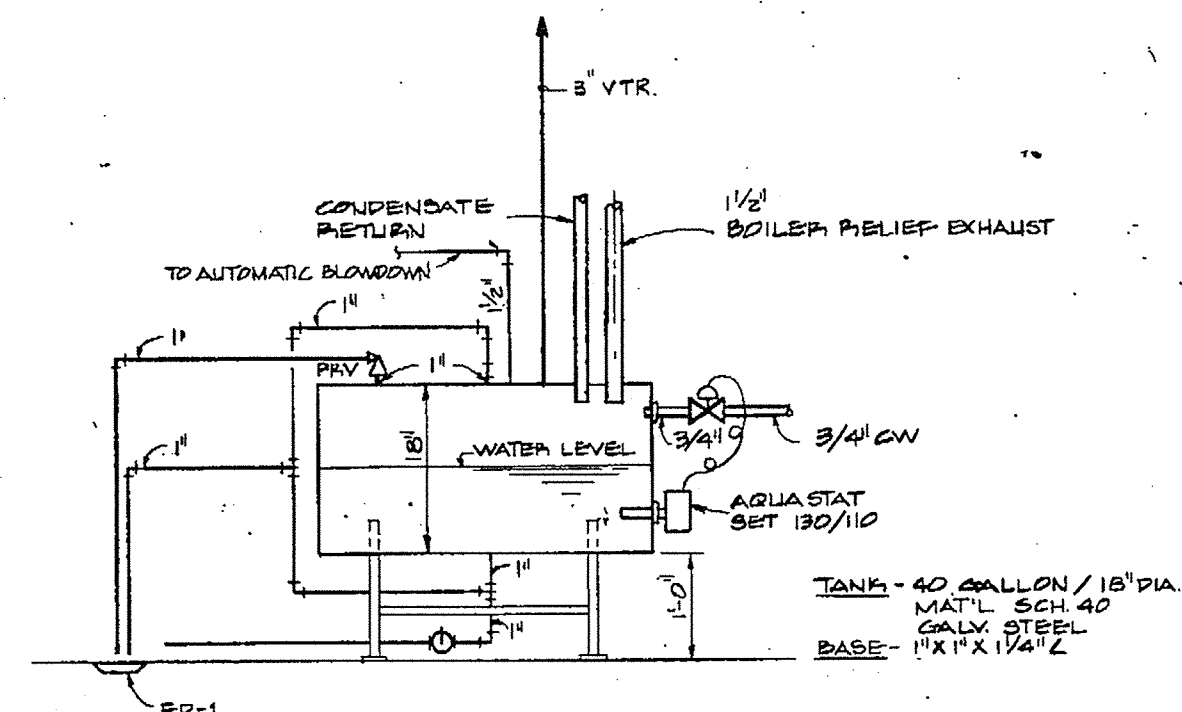
2 WATER HEATER PIPING DETAIL
M-15 NO SCALE



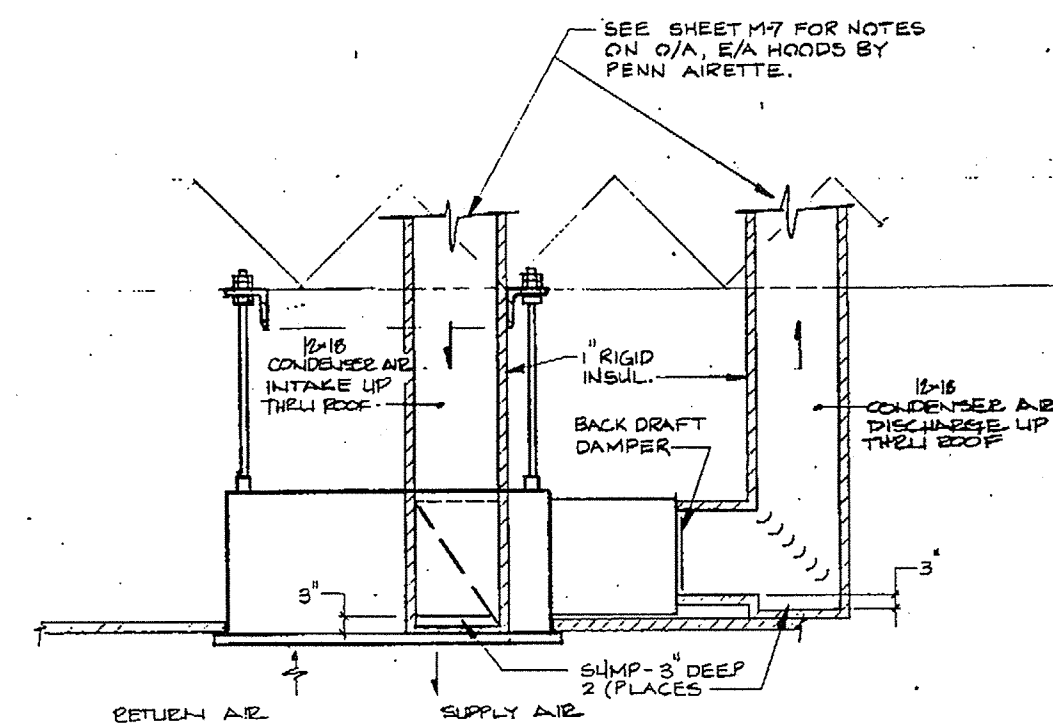
5 TEMPERED WATER PIPING DIAGRAM
M-15



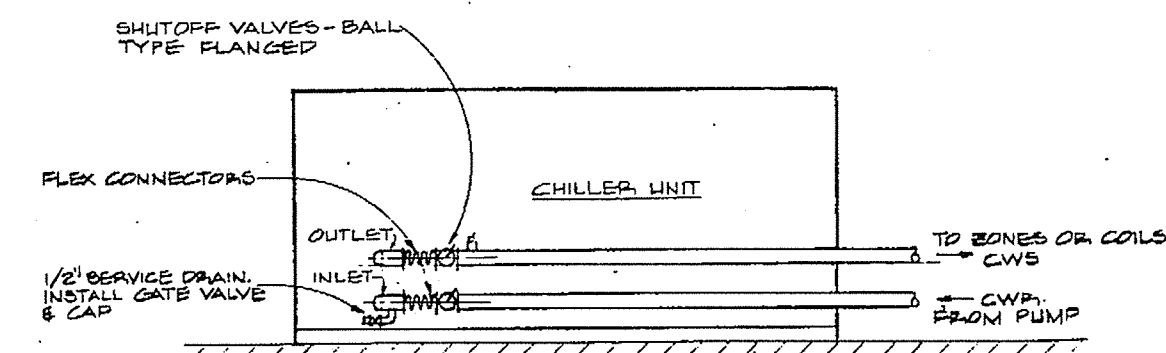
8 SUMP PUMP DETAIL
M-15



3 BOILER CONDENSATE BLOW DOWN TANK
M-15 SCALE: 1\"/>

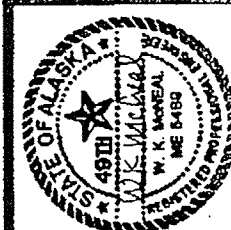


6 COOLED ROOM COOLER INSTALLATION DETAIL
M-15 NO SCALE



1. REFER TO MFC/PS INSTALLATION INSTRUCTIONS OR SPECS. FOR CONNECTION LOCATIONS AND OPERATING CLEARANCES. ALLOW 30 INCH MINIMUM SERVICE ACCESS WHERE REQ'D.
2. INSULATE ALL PIPING PER SPECS.

9 AIR COOLED LIQUID CHILLER INSTALLATION DETAIL
M-15 NO SCALE



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KEI. Knickel Engineers, Inc.
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Suite 201
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(907) 261-4201

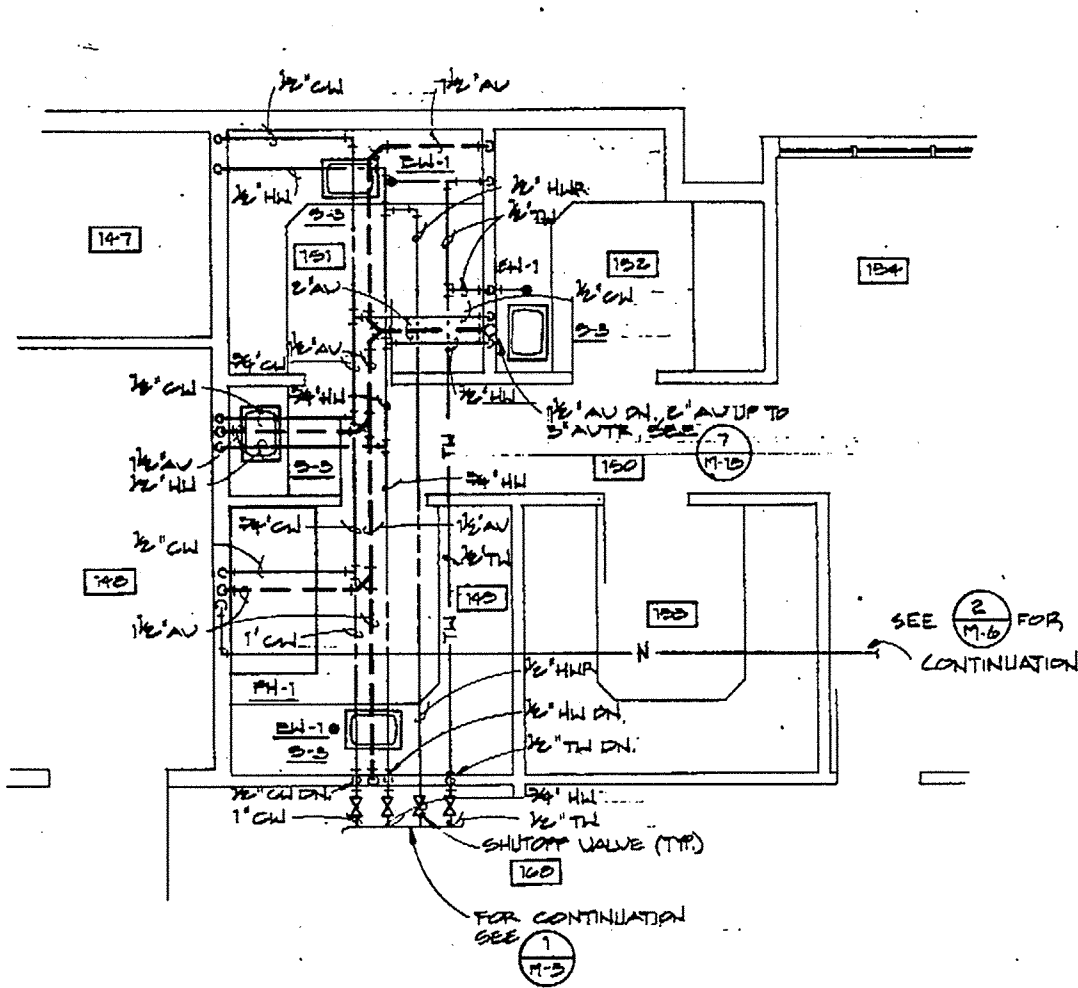
ANCHORAGE STATEWIDE
FORENSIC LABORATORY
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
DESIGN GROUP 1 - CENTRAL REGION
PROJECT NUMBER K-10023

DUCT CONSTRUCTION DETAILS

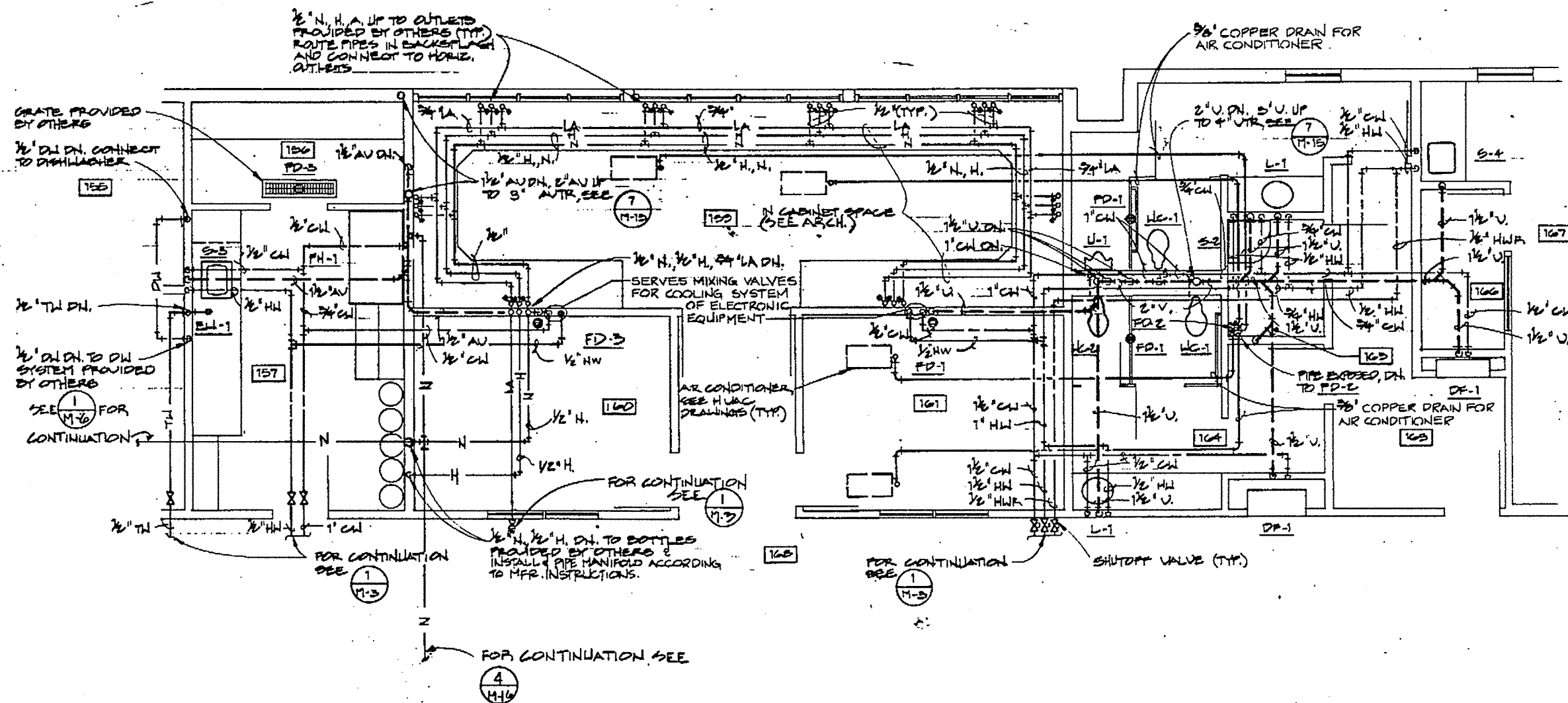
JOB NO. 83-70

M15

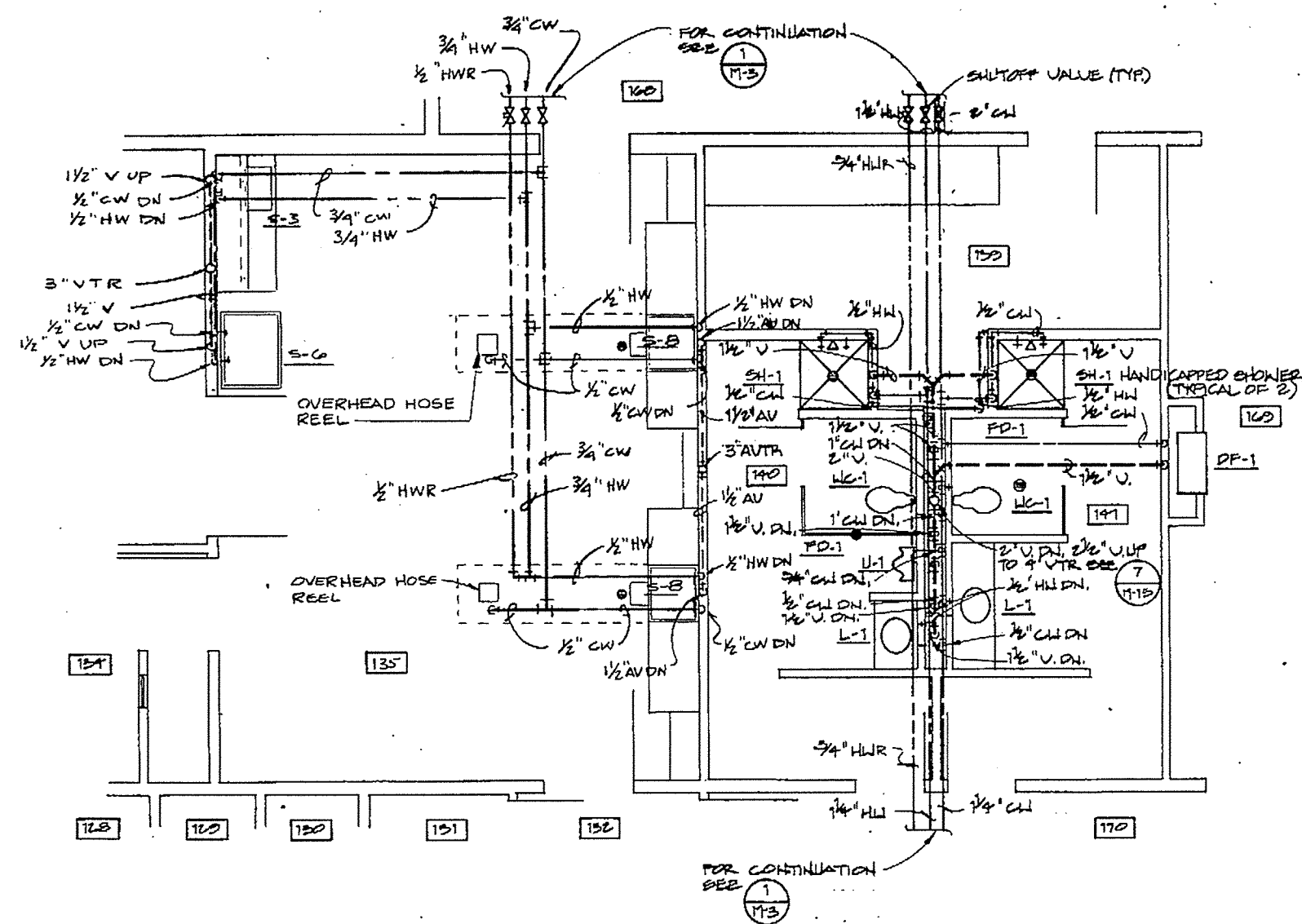
OF 18
DATE 13 JULY 64



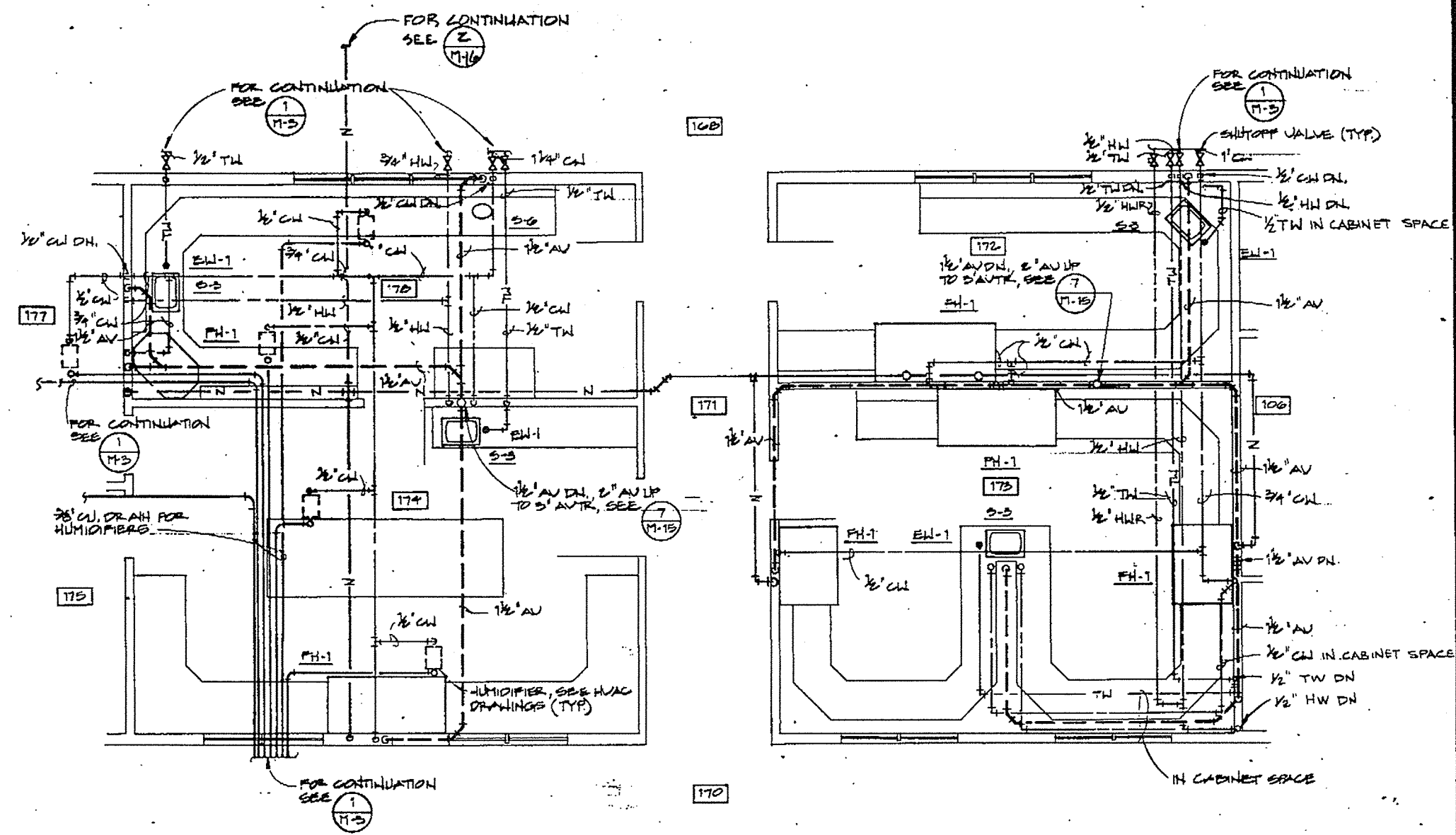
1 PARTIAL FLOOR PLAN - PLUMBING
SCALE: 1/4" = 1'-0"



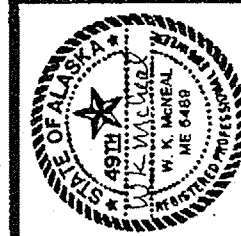
2 PARTIAL FLOOR PLAN - PLUMBING
SCALE: 1/4" = 1'-0"



3 PARTIAL FLOOR PLAN - PLUMBING
SCALE: 1/4" = 1'-0"



4 PARTIAL FLOOR PLAN - PLUMBING
SCALE: 1/4" = 1'-0"



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(907) 266-0071

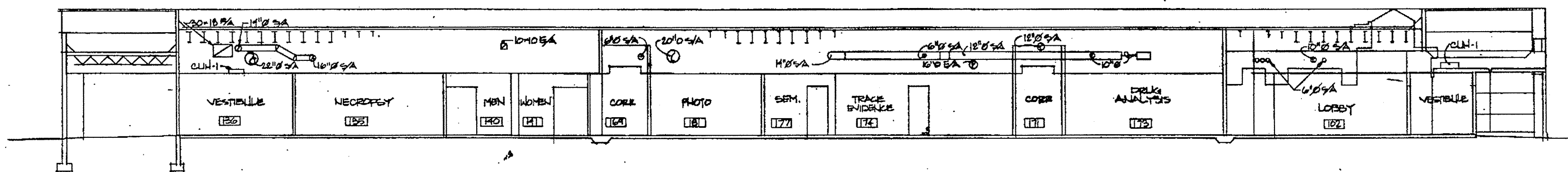
ANCHORAGE STATEWIDE
FORENSIC LABORATORY
STATE OF ALASKA
DEPARTMENT OF CORRECTIONS
DIVISION OF DESIGN AND CONSTRUCTION
DESIGN PROJECT NUMBER 1-1000

PARTIAL FLOOR
PLANS - PLUMBING

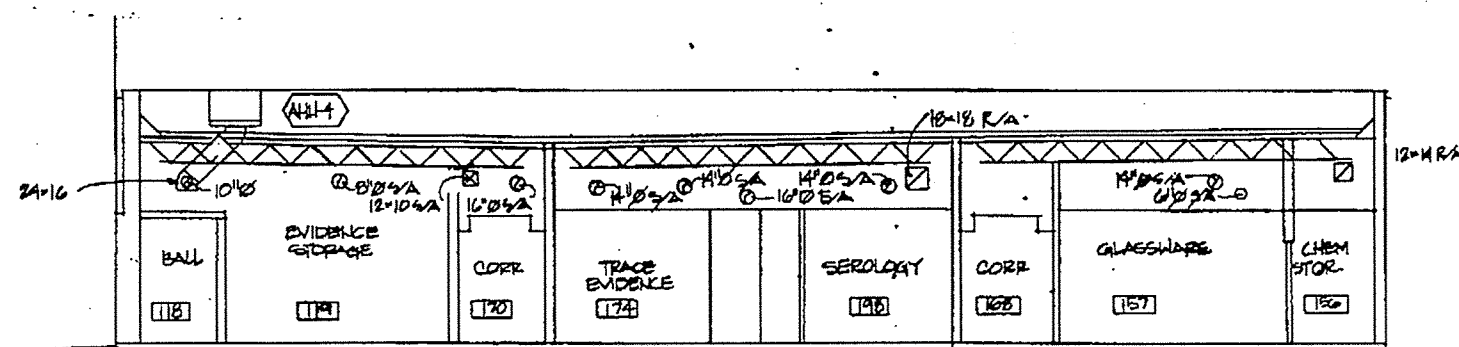
JOB NO. 63-70

M16
OF 19

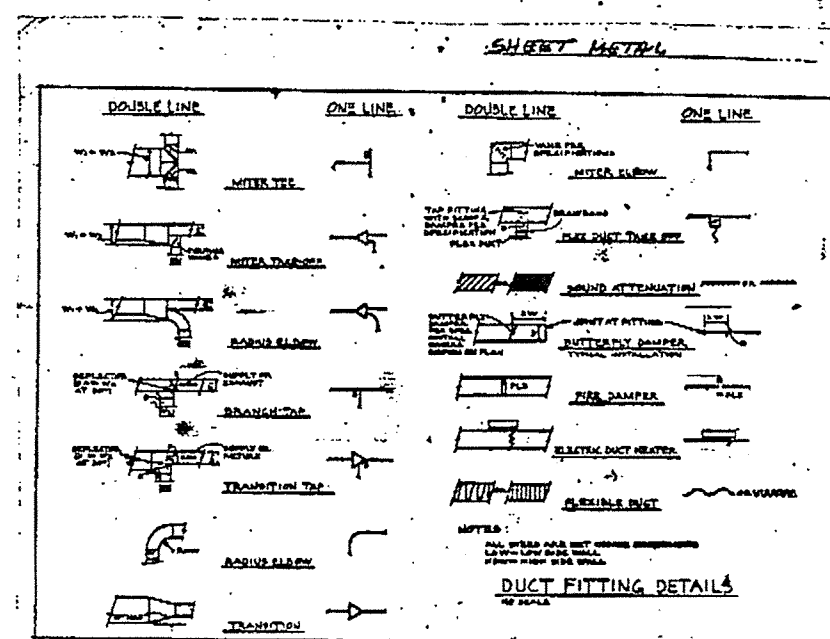
DATE 13 JULY 64



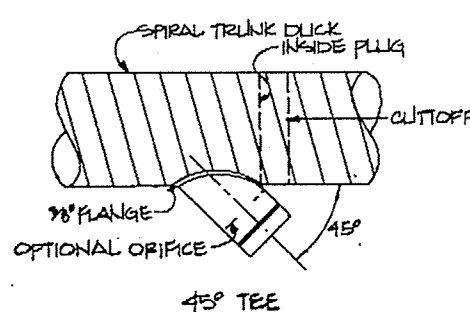
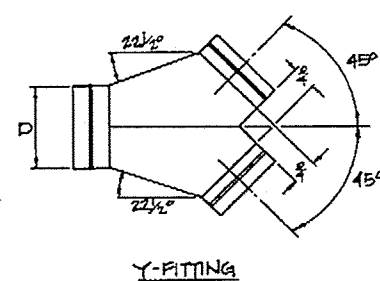
SECTION
M-17 1/8" = 1'-0"



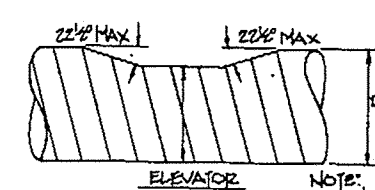
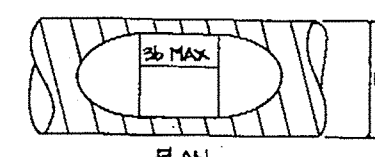
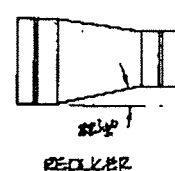
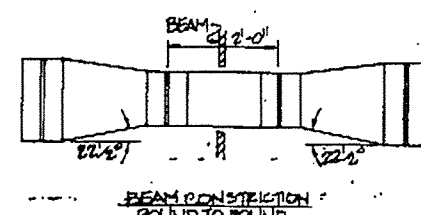
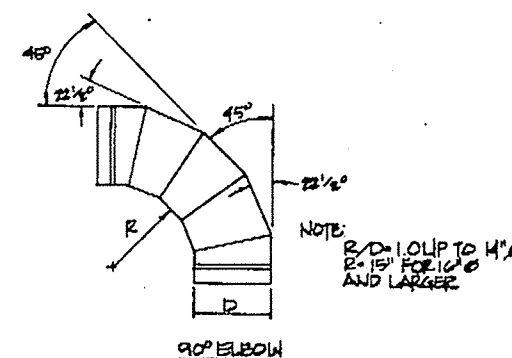
SECTION
M-17 1/8" = 1'-0"



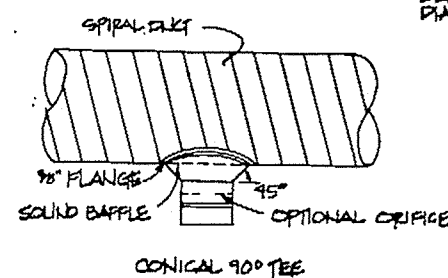
DUCT FITTING DETAILS
M-17



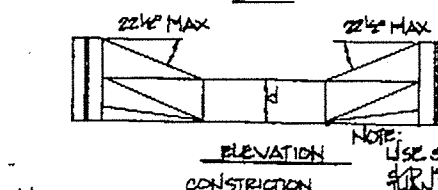
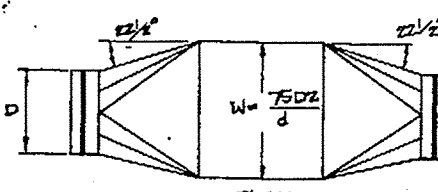
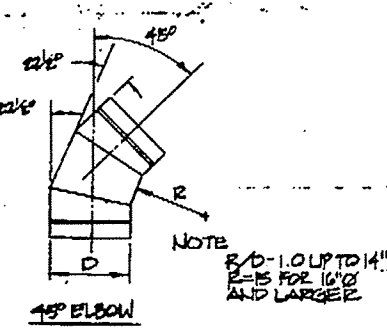
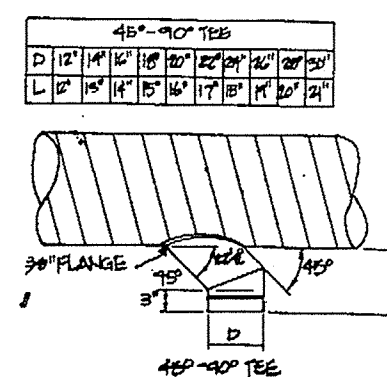
- LEGEND
HIGH VELOCITY FITTINGS
- CONICAL 90° TEE
 - 45° TEE (WITH 45° EL)
 - 45°-90° TEE
 - REDUCER
 - COUPLING
 - CONSTRUCTION
 - Y-FITTING



NOTE: USE SLICE WHERE
SLICE IS GREATER
THAN 6"

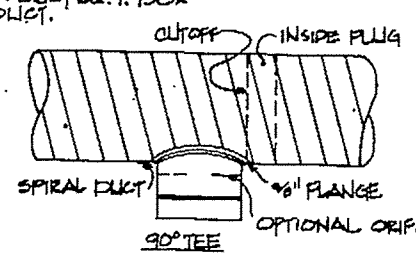


HIGH VELOCITY DUCT FITTING DETAILS
M-17 NO SCALE

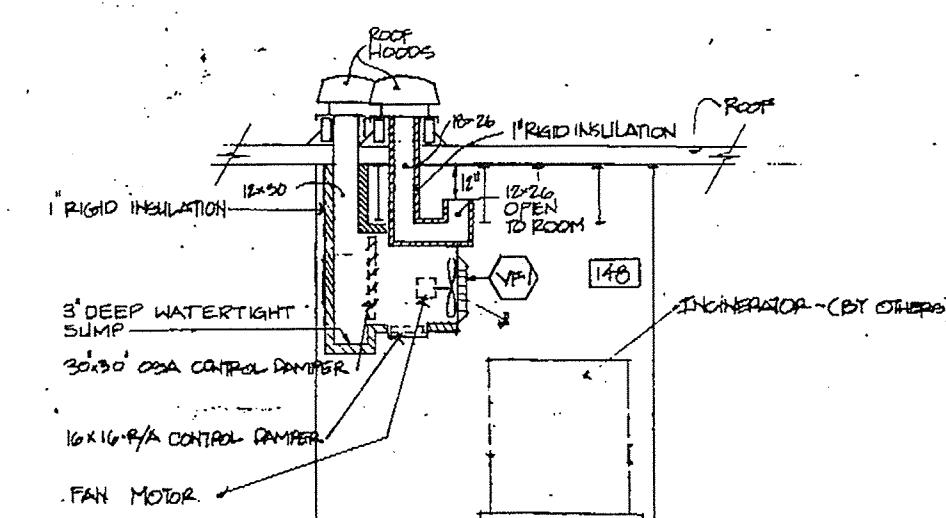


NOTE: USE SLICE WHERE
SLICE IS GREATER
THAN 6"

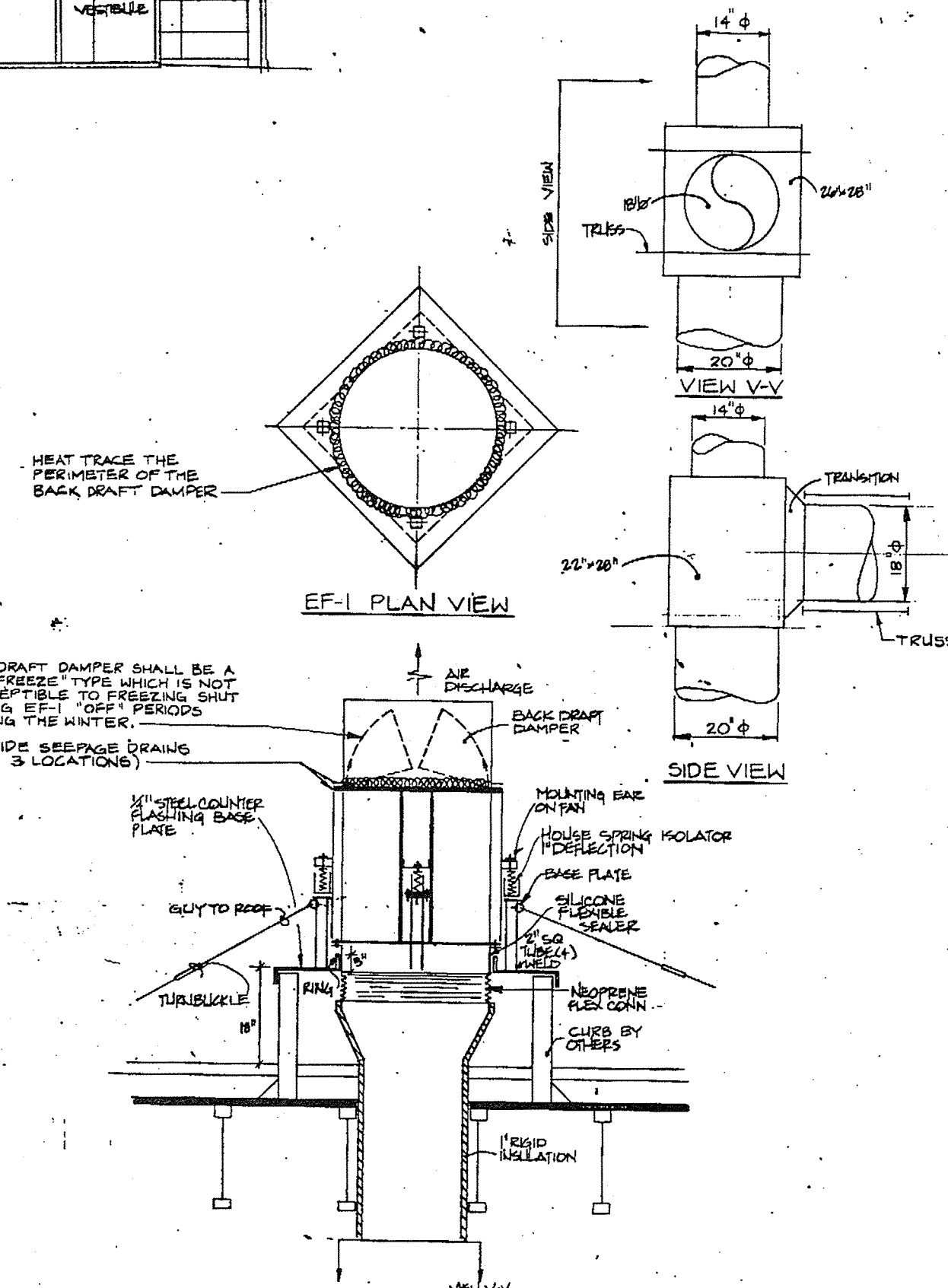
NOTE: 20 GA. PERFORATED METAL SOUND
BAFFLE FLUSH WITH MAIN DUCT
W/ 1/8" HOLES 3/16" O.C. DIA. OF CIRCLE
CENT. TO THE MAIN DUCT EQ. 1.75 DIA.
OF BRANCH DUCT.



EF-1 DETAIL
M-17 3/4" = 1'-0"



COMBUSTION & VF-1 DETAIL
M-17 NO SCALE



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ANCHORAGE STATEWIDE
FORENSIC LABORATORY
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
DIVISION OF GROUP 1 - CENTRAL REGION
DESIGN NUMBER 8-10023

BUILDING SECTIONS

JOB NO. 83-70

M17

DATE 13 JULY 84

AIR HANDLER SCHEDULE																																			
DESIG	SERVES	LOCATION	CFM	FAN TOTAL SP "H ₂ O	RPM	BHP	MOTOR HP	PRE-HEAT COIL *								TEMPERING COIL *								COOLING COIL											
								CFM	TEMP AIR IN	TEMP AIR OUT	AIR ΔP "H ₂ O	TEMP GLYCOL SOLUTION IN	TEMP GLYCOL SOLUTION OUT	GPM	GLYCOL ΔP IN FT	CFM	TEMP AIR IN	TEMP AIR OUT	AIR ΔP "H ₂ O	TEMP GLYCOL SOLUTION IN	TEMP GLYCOL SOLUTION OUT	GPM	GLYCOL ΔP IN FT	ZONE	CFM	TEMP AIR IN	TEMP AIR OUT	AIR ΔP "H ₂ O	TEMP GLYCOL SOLUTION IN	TEMP GLYCOL SOLUTION OUT	GPM	GLYCOL ΔP IN FT	CAPACITY MCH	FACE AREA	DIM
AHU-1	ZONE 1	MECH. ROOM 146	19,655	4.10	3050	1	20	11,060	20	45	.15	200	180	36.4	3.5	11,060	45	60	.15	200	180	21.5	3.5	1	4800	74/63	60	.55	48°F	60°F	15	24	70.5	9.2	20x39L
	ZONE 2																						2	5855	74/63	60	.55	48°F	60°F	19.2	24	11.0	11.0	20x40L	
	ZONE 3																							3	9170	74/63	60	.55	48°F	60°F	16.9	24	85.9	10.4	20x42L
AHU-2	VENTILATION	MECH. ROOM 146	3,420	2.5	1315	2.7	5	3,420	-25	45	.15	200	170	20.6	3.5	3,420	45	60	.15	200	170	4.4	3.5	AHU-2	3,420	74/63	60	.55	48°F	60°F	9.9	24	55.9	6.7	
AHU-3	MAKE-UP	MECH. ROOM 146	2,930	2.5	1452	2.3	3	2,930	-25	45	.15	200	170	27.0	3.5	2,930	45	60	.15	200	170	3.87	3.5	AHU-3	2,930	74/63	70	.55	48°F	60°F	4.9	24	25.0	5.9	
AHU-4		BALLISTICS 118	770	1.0	1308	.3	1/2	770	-25	45	.15	200	170	4.74	3.5	770	45	60	.15	200	170	2.78	3.5												
AHU-5,6,7,8		RM NO.123,130,116,114	230	.5	1716	.05	1/8									230	60	120	.15	200	170	1.0	3.5												
AHU-9		CLEAN ROOM 175	230	1.2	2100	.2	1/3									230	60	90	.15	200	170	.51	3.5												
CAF-1	MECH ROOM, COMB. AIR, CLG		4824	.75	913	1.39	2	4800	-25°	55°	.15	200	180	10	3.5																				

* COIL FACE AREAS MUST BE SUITABLE FOR FULL SYSTEM CFM (19,655) AND NOT EXCEED AIR ΔP AS SHOWN IN SCHEDULE.

CEILING RETURN/EXHAUST GRILLE SCHEDULE *									
DESIG	SERVES	CFM	GRILLE SIZE	MAX NC	REMARKS				
2	CLASSROOM	167	840	24"x24"	30	① T BAR TYPE			
4	PROJECTION	166	90	16"x8"	30	① T BAR TYPE			
6	JANITOR	163	40	12"x12"	30	② REG CEILING			
7	MEN	162	180	12"x12"	30	② REG CEILING			
8	WOMEN	164	180	12"x12"	30	② REG CEILING			
11	INSTRUMENT 'N	159	580	24"x24"	30	① T BAR TYPE			
14	MASS SPECTRA	161	240	24"x24"	30	① T BAR TYPE			
16	ETIP	160	219	24"x24"	30	① T BAR TYPE			
18	CHEM STORAGE	156	75	8"x4"	30	TYPE 2 SIDEWALL REG. PROVIDE 80%			
21	GLASSWARE	157	500	24"x24"	30	① T BAR TYPE			
24	TOXICOLOGY	172	310	12"x12"	30	① T BAR TYPE			
27	DRUG ANALYSIS	173	525	24"x24"	30	① T BAR TYPE			
30	SERAPLOS	178	325	24"x24"	30	① T BAR TYPE			
33	TRACE EVIDENCE	174	620	24"x24"	30	① T BAR TYPE			
35	CONF./LIBRARY	107	480	24"x24"	30	① T BAR TYPE			
36	CONF./LIBRARY	107	390	24"x24"	30	① T BAR TYPE			
37	CONF./LIBRARY	107	170	24"x12"	30	① T BAR TYPE			
38	ADMIN. ASSISTANT	109	170	24"x12"	30	① T BAR TYPE			
40	ADMIN. ASSISTANT	109	160	24"x24"	30	① T BAR TYPE			
41	LAB DIRECTOR	112	210	24"x24"	30	① T BAR TYPE			
44	HEAD CHEMIST	111	180	24"x24"	30	① T BAR TYPE			
45	STORAGE	163	50	24"x24"	30	① T BAR TYPE			
46	RECORDS	164	180	24"x24"	30	① T BAR TYPE			
50	EVIDENCE REC'D	116	450	24"x24"	30	① T BAR TYPE			
51	VAULT	114	230	48"Lg	30	① SLOT R/A DIFFUSER			
53	EVIDENCE REC'D	117	280	12"x12"	30	② REG CEILING TYPE			
55	FINGERPRINT OFF	155	300	24"x24"	30	① T BAR TYPE			
60	FINGERPRINT SECT.	154	950	24"x24"	30	① T BAR TYPE			
61	FINGERPRINT POWD	152	150	24"x24"	30	① T BAR TYPE			
64	CHEM. TRACE	151	125	24"x24"	30	① T BAR TYPE			
66	QUEST'D DOCUMENTS	153	120	24"x24"	30	② REG CEILING TYPE			
69	NINHYDRIN	149	585	24"x24"	30	② REG CEILING TYPE			
70	ELECTRIC ROOM	147	250	12"x12"	30	② REG CEILING TYPE			
72	CORRIDOR	168	600	24"x24"	30	① T BAR TYPE			
74	ELECTRONIC REPAIR	139	255	24"x24"	30	① T BAR TYPE			
75	RESTROOMS	140,141	200	12"x12"	30	② REG CEILING TYPE			
77	NECROPSY	135	1940	24"x24"	30	① T BAR TYPE			
81	X-RAY	134	200	24"x24"	35	① T BAR TYPE			

① SELECTION BASED ON AHU/STAT GCS-1 SERIES - EGG CRATE TYPE - LAY IN T-BAR TYPE
② GCS TYPE IS FOR REGULAR TYPE CEILING.

EXHAUST FAN SCHEDULE									
DESIG	SERVES	LOCATION	CFM	SP "H ₂ O	RPM	BHP	MOTOR HP	REMARKS	
EF-1	151,160,172,173,174,175,177,178	ON ROOF, LAB AREA	400/3215	1-1	1180	.95	1/2	FLUE TACO	
EF-2	NINHYDRANT	149	585	5	1298	.30	1/2	U-GF ACID RESISTANT EXPLOSION PROOF	
EF-3	CHEMICAL	151	125	5	1197	.03	1/8	U-GF "	
EF-4	CHEMICAL	151	125	5	1197	.03	1/8	U-GF "	
EF-5	POWDER	152	300	4			1/10	DD-650 F	
EF-6	QUEST'D DOCL	153	120	4			1/10	DD-450 F	
EF-7	CHEM. STORAGE	156	200	5	1197	.03	1/8	U-GF ACID RESISTANT EXPLOSION PROOF	
EF-8	GLASSWARE	157	500	45			1/10	DD-650 F	
EF-9	MEN/WOMEN/JAN	162,163,164	400	5			1/10	DD-650 F	
EF-10	PHOTO SECTION	161	360	3			1/10	DD-650 F	
EF-11	MEN, WOMEN	140,141	400	4			1/10	DD-650 F	
EF-12	NECROPSY	135,155,156	2,255	5	769	.49	3/4	GCF-114-A	
EF-13	VEHICLE INSPECT		660	5	1398	.26	1/2	GCF-71A	
EF-14	EVIDENCE	116,119	1125	4	792	.17	1/4	GCF-97A	
EF-15	CONF./LIBRARY	107	390	.5			1/10	DD-650 FT	
EF-16	BALLISTICS	118	655	1.5	1927	.78	1/2	U-BF	
EF-17	BALLISTICS TANK	118	144	5	1192	.03	1/8	DD-450F	
EF-18	DRYING	123	250	5			1/10	DD-650F	
EF-19	DRYING	130	250	5			1/10	DD-650F	
EF-20	DRYING	117	250	5			1/10	DD-650F	
EF-21	VAULT	114	250	5			1/10	DD-650F	
EF-22	LUNCH ROOM	123	400	.5			1/10	DD-650F	
EF-23	JANITOR	121	90				1/10	DD-350G	

FUME HOOD MAKE UP AIR TEMPERING COIL SCHEDULE									
DESIG	SERVES	LOCATION	CFM	TEMP AIR IN	TEMP AIR OUT	AIR ΔP "H ₂ O	TEMP GLYCOL SOLUTION IN	TEMP GLYCOL SOLUTION OUT	GLYCOL ΔP IN FT
HC-1		NINHYDRANT	570	-25	50	.2	200	170	3.7
HC-2		GLASSWARE	360	-25	50	.2	200	170	2.3
HC-3		TRACE EVIDENCE	570	-25	50	.2	200	170	3.7
HC-4		TOXICOLOGY	570	-25	50	.2	200	170	3.7
HC-5		DRUG ANALYSIS	570	-25	50	.2	200	170	3.7
HC-6		DRUG ANALYSIS	360	-25	50	.2	200	170	2.3
HC-7		DRUG ANALYSIS	360	-25	50	.2	200	170	2.3

CEILING RETURN/EXHAUST GRILLE SCHEDULE *									
DESIG	SERVES	CFM	GRILLE SIZE	MAX NC	REMARKS				
85	DRY	129	250	12x12	N/A	② REG CEILING TYPE			
87	DRY	130	250	12x12	N/A	② REG CEILING TYPE			
89	JANITOR	131							
91	VEHICLE INSPECT	126	100	4x10	N/A	① S.S. - SHOP FAB 1/4" MESH			
93	LUNCHROOM	123	400	24x24	35	① T BAR TYPE			
96	FIREARMS	120	400	24x24	30	① T BAR TYPE			
99	PHOTO SECTION	116	180	24x24	35	② REG. CEILING TYPE (TYP 2)			
101	CLEAN ROOM	175	175	24x24	35	② REG CEILING TYPE			
103	EVIDENCE STORAGE	119	740	24x24	30	② REG TYPE			
105	RECORDS	110	665	24x24	30	② REG CEILING TYPE			
106	CORRIDOR	102	1120	24x24	35	① T BAR TYPE (TYP 2)			
113	QUEST'D DOCUMENTS	153	120	24x24	30	② REG CEILING TYPE			
114	SEM	171	175	24x24	35	① T BAR TYPE			
118	CORRIDOR	170	625	24x24	35	① T BAR TYPE (TYP 2)			

TREATMENT EQUIPMENT SCHEDULE			
NO.	DESC.	FUNCTION	EQUIPMENT
WS-1	WATER SOFTENER	SOFTEN BOILER FEED WATER	CULLIGAN - MARK 41
WT-1	CHEMICAL TREATMENT	TREAT BOILER FEED WATER	CULLIGAN FEED PUMP & TANK CT-20A 1/2 HP, CHEMICALS B-42 CONTROLS CT-100 PAGING METER

TERMINAL UNIT SCHEDULE																									
TERM UNIT NO.	* MFG. DESIG.	SERVES	PRIMARY FAN SYSTEM	CFM		MAX OPER. PRESS. H ₂ O	MAX NC	TEMPERING COIL										CONNECTION SIZES			VALVE SIZES				
				MIN	MAX			COIL SIZING CFM	TEMP AIR IN	TEMP AIR OUT	COIL AIR IN H.C. MAX CFM	TEMP GLYCOL SOLUTION IN	TEMP GLYCOL SOLUTION OUT	GPM	GLYCOL SOLUTION ΔP IN FT MAX.	COIL ROWS	SUPPLY (A)	RETURN (B)	BYPASS (C)	FCV		AV			
																				GPM	ΔP IN FT MAX.	GPM	ΔP IN FT MAX.		
1	A	ELECTRIC ROOM 147	AHU-1	350	CONST V	1/2"	32	250	60	124	3	200	170	1.4	3.0	2	1/2"	1/2"	1/2"	1.4	4.0	1.4	4.0		
2	A	CHEM TRACE 151	AHU-1	125	CONST V	1/2"	25	125	60			200	170	0.5			3/8"	3/8"	3/8"	.5		.5			
3	A	FINGERPRINT POWR 192	AHU-1	150	CONST V	1/2"	25	150	60			200	170	0.5			3/8"	3/8"	3/8"	.5		.5			
4	A	NINHYDRANTS 149	AHU-1	160	CONST V	1/2"	25	160	60	76.5		200	170	0.5			3/8"	3/8"	3/8"	.5		.5			
4A	B	NINHYDRANTS 149	AHU-3	370	CONST V	1/2"	25	370	60	72		200	170	0.5			3/8"	3/8"	3/8"	.5		.5			
5	A	QUESTR DOCLMITS 153	AHU-1	135	CONST V	1/2"	25	135	60	103		200	170	0.5			3/8"	3/8"	3/8"	.5		.5			
6	D	FINGERPRINT SECT 154	AHU-1	480	955	1/2"	32	480	60	116		200	170	2.3			3/4"	3/4"	3/4"	2.3		2.3			
7	A	FINGERPRINT OFF 155	AHU-1	130	300	1/2"	25	100	60	118		200	170	0.5			3/8"	3/8"	3/8"	.5		.5			
8	A	CHEM. STORAGE 156	AHU-1	130	CONST V	1/2"	25	130	60	105		200	170	0.5			3/8"	3/8"	3/8"	.5		.5			
9	D	GLASSWARE 157	AHU-1	500	CONST V	1/2"	25	500	60	77		200	170	0.7			3/8"	3/8"	3/8"	.7		.7			
9A	B	GLASSWARE 157	AHU-3	370	CONST V	1/2"	25	370	60	72		200	170	0.5	3.0		3/8"	3/8"	3/8"	.5	4.0	.5	4.0		
10	E	INSTRUMENTATION 159	AHU-2	230	580	1/2"	25	230	60	105		200	170	1.1			1/2"	1/2"	1/2"	1.1		1.1			
11	A	FTIR 160	AHU-2	110	215	1/2"	25	110	60	97	3	200	170	0.5			3/8"	3/8"	3/8"	.5		.5			
12	B	MASS SPECTRA 161	AHU-2	120	240	1/2"	25	120	60	101		200	170	0.5			3/8"	3/8"	3/8"	.5		.5			
13	A	MEN/WOMEN/VEST. 162, 165, 164	AHU-1	400	CONST V	1/2"	25	400	60	102		200	170	1.5			1/2"	1/2"	1/2"	1.5		1.5			
15	A	PROJECTION 166	AHU-1	90	CONST V	1/2"	25	90	60	80		200	170	0.5			3/8"	3/8"	3/8"	.5		.5			
16	E	CLASSROOM 167	AHU-1	500	840	1/2"	25	500	60	110		200	170	2.6			3/4"	3/4"	3/4"	2.6		2.6			
17	E	CORRIDOR 168	AHU-1	300	1000	1/2"	25	300	60	80		200	170	.9			1/2"	1/2"	1/2"	.9		.9			
18	E	CORRIDOR 169	AHU-1	300	625	1/2"	25	300	60	80		200	170	0.5	3.0		3/8"	3/8"	3/8"	.5	4.0	.5	4.0		
19	D	RECEPTION 105, 104	AHU-1	120	240	1/2"	25	220	60	90	3	200	170	0.5			3/8"	3/8"	3/8"	.5		.5			
20	C	STORAGE RECORDS 106	AHU-1	120	240	1/2"	25	270	60	96		200	170	.8			3/8"	3/8"	3/8"	.8		.8			
21	B	TOXICOLOGY 172	AHU-2	140	345	1/2"	25	170	60	100		200	170	0.6			3/8"	3/8"	3/8"	.6		.6			
21A	B	TOXICOLOGY 172	AHU-3	265	440	1/2"	25	440	60	72		200	170	0.5			3/8"	3/8"	3/8"	.5		.5			
21B	D	TOXICOLOGY 172	EF-1	135	310	1/2"	25								3.0						4.0		4.0		
22	C	DRUG ANALYSIS 173	AHU-2	250	585	1/2"	25	230	60	100	3	200	170	1.0			1/2"	1/2"	1/2"	1.0		1.0			
22A	E	DRUG ANALYSIS 173	AHU-3	230	1030	1/2"	25	1030	60	72	3	200	170	1.1			1/2"	1/2"	1/2"	1.1		1.1			
22B	C	DRUG ANALYSIS 173	EF-1	230	525	1/2"	25																		
23	D	TRACE EVIDENCE 174	AHU-2	250	690	1/2"	25	345	60	95	3	200	170	1.0			1/2"	1/2"	1/2"	1.0		1.0			
23A	A	TRACE EVIDENCE 174	AHU-3	2	250	1/2"	25	250	60	72	3	200	170	0.5			3/8"	3/8"	3/8"	.5		.5			
23B	B	TRACE EVIDENCE 174	EF-1	275	620	1/2"	25																		
24	A	CLEAN ROOM 175	AHU-2	195	CONST V	1/2"	25																		
25	A	ELECTRON MICROPS 177	AHU-2	95	195	1/2"	25	95	60	96	3	200	170	0.5			3/8"	3/8"	3/8"	.5		.5			
26	B	SEROROLOGY 178	AHU-2	185	375	1/2"	25	185	60	95		200	170	0.6			3/8"	3/8"	3/8"	.6		.6			
26A	A	SEROROLOGY 178	AHU-3	80	270	1/2"	25	270	60	72		200	170	0.5	3.0		3/8"	3/8"	3/8"	.5	4.0	.5	4.0		
26B	B	SEROROLOGY 178	EF-1	145	335	1/2"	25																		
27	B	PHOTO SECT 181	AHU-1	360	CONST V	3/4"	25	560	60	96		200	170	1.0			1/2"	1/2"	1/2"	1.0		1.0			
28	A	ELECTRONIC REPAIR 199	AHU-1	130	255	3/4"	25	130	60	100	3	200	170	0.5			3/8"	3/8"	3/8"	.5		.5			
29	A	MEN 140	AHU-1	360	CONST V	3/4"	25	500	60	94		200	170	1.5			1/2"	1/2"	1/2"	1.5		1.5			
30	C	NECROPSY 135	AHU-1	1765	CONST V	3/4"	25	1765	60	79		200	170	2.9			3/4"	3/4"	3/4"	2.9		2.9			
31	A	X-RAY 134	AHU-1	285	CONST V	3/4"	25	285	60	94		200	170	0.8			1/2"	1/2"	1/2"	.8		.8			
32	E	VEHICLE INSPECT 126	AHU-1	750	CONST V	3/4"	25	750	60	102		200	170	2.7			3/4"	3/4"	3/4"	2.7		2.7			
33	B	LUNCHROOM 123	AHU-1	420	CONST V	3/4"	25	210	60	115		200	170	1.0	3.0		1/2"	1/2"	1/2"	1.0	4.0	1.0	4.0		
34	B	CAREARMS 120	AHU-1	200	400	3/4"	25	200	60	87		200	170	0.5			3/8"	3/8"	3/8"	.5		.5			
35	D	EVIDENCE STOR. 119	AHU-1	600	CONST V	3/4"	25	600	60	91		200	170	1.6			3/4"	3/4"	3/4"	1.6		1.6			
36	C	EVIDENCE REC'G 116	AHU-1	460	CONST V	3/4"	25	450	60	91		200	170	1.4			3/4"	3/4"	3/4"	1.4		1.4			
37	B	EVIDENCE REC'G 115																							
37	B	ADMIN. ASSISTANT 109	AHU-1	100	185	3/4"	25	170	60	104		200	170	0.7			3/8"	3/8"	3/8"	.7		.7			
38	A	HEAD CHEMIST 111	AHU-1	100	210	3/4"	25	100	60	118		200	170	0.5			3/8"	3/8"	3/8"	.5		.5			
39	A	LAB DIRECTOR 112	AHU-1	130	210	3/4"	25	130	60	120		200	170	0.7	3.0	2	1/2"	1/2"	1/2"	.7	4.0	.7	4.0		
40	C	CONF/LIBRARY 107	AHU-1	220	80	3/4"	25	220	60	119		200	170	1.1	3.0	2	1/2"	1/2"	1/2"	1.1	4.0	1.1	4.0		
42	A	DRY 125	AHU-1	160	CONST V	3/4"	25																		
43	A	DRY 130	AHU-1	160	CONST V	3/4"	25																		
44	A	DRY 117	AHU-1	230	CONST V	3/4"	25																		
45	A	VAULT 114	AHU-1	230	CONST V	3/4"	25																		
46	A	CLEAN ROOM 175	EF-1	175	CONST V	3/4"	25																		
47	A	ELECTRON. MICROPS 177	EF-1	175	CONST V	3/4"	25																		
48	A	FTIR 160	EF-1	110	215	3/4"	25																		
49	D	INSTRUMENTATION 159	EF-1	320	640	3/4"	25																		
50	A	MASS SPECTRA 161	EF-1	120	240	3/4"	25																		
51	P	LOBBY	AHU-1	1200	2000	1/2"	35	1200	60	83	3	200	170	2.5	3.0	2	3/4"	3/4"	3/4"	2.5	4	2.5	4		

* UNIT SELECTIONS BASED ON "TEMPMASTER" S-7

LINEAR SLOT DIFFUSER SCHEDULE							
DESIG	SERVES	CFM	LENGTH FT/SLOT	THROW FT	THROW DIRECTION	MAX NC	REMARKS
1	CLASSROOM 167	210	4/2	6	2-WAY	35	TYP OF 4
12	INSTRUMENTATION 159	290	4/2	6	2-WAY	35	TYP OF 2
13	MASS SPECTRA 161	120	2/2	8	2-WAY	35	TYP OF 2-GYP CLG.
15	FTIR 160	110	2/2	5	2-WAY	35	TYP OF 2-GYP CLG.
22	TOXICOLOGY 172	440	4/2	5	2-WAY	35	
23	TOXICOLOGY 172	345	4/2	5	2-WAY	35	
29	DRUG ANALYSIS 173	515	4/4	9	2-WAY	35	TYP OF 2
26	DRUG ANALYSIS 173	585	4/4	9	2-WAY	35	
28	SEROROLOGY 178	270	4/2	5	2-WAY	35	
29	SEROROLOGY 178	375	4/2	5	2-WAY	35	
31	TRACE EVIDENCE 174	345	4/2	9	2-WAY	35	TYP OF 2
32	TRACE EVIDENCE 174	250	4/2	9	2-WAY	35	
34	CONF/LIBRARY 107	120	2/2	9	1-WAY	35	TYP OF 4
53	ADMIN. ASSISTANT 109	160	4/2	10	2-WAY	35	
42	LAB DIRECTOR 112	265	4/2	8	2-WAY	35	
43	HEAD CHEMIST 111	300	4/2	6	2-WAY	35	
56	FINGERPRINT OFF. 153	300	4/2	8	2-WAY	35	
57	FINGERPRINT SECT. 154	300	4/2	6	2-WAY	35	TYP OF 2
58	FINGERPRINT SECT. 154	150	4/2	6	2-WAY	35	TYP OF 2
59	FINGERPRINT SECT. 154	50	2/1	15	1-WAY	35	
100	EL. MICROSCOPE 177	195	1/2	5	1-WAY	35	
107	CORRIDOR 16A, 170	125	3/2	15	2-WAY	35	TYP OF 5
110	REGLER 104, 105	120	3/2	8	1-WAY	35	TYP OF 2
111	910A RECORD 103, 106	60	3/2	6	1-WAY	35	TYP OF 4
112	CORRIDOR 108, 109	120	3/2	8	2-WAY	35	TYP OF 5
115	FIREARMS 110	200	3/2	8	2-WAY	35	TYP OF 2
117	BALLISTICS RANGE 118	385	1/2	12	1-WAY	35	TYP OF 2 MODIFIED FOR TYP. 11407
52	VAULT 114	230	1/2	6	1-WAY	35	