MECHANICAL LEGEND & ABBREVIATIONS

- NEW DUCTWORK
- NEW ACOUSTICALLY LINED DUCTWORK
- SUPPLY DUCT DROP
- SUPPLY DUCT RISER
- RETURN OR EXHAUST DUCT DROP
- RETURN OR EXHAUST DUCT RISER
- FLEXIBLE CONNECTOR
- VOLUME DAMPER
- VD — VOLUME DAMPER
- MOTOR OPERATED DAMPER
- FD — FIRE DAMPER, FD=FIRE DAMPER
- AIR FLOW INDICATOR
- B / M2 — SECTION TAG
- S — STEAM PIPING
- C — CONDENSATE PIPING
- GATE VALVE
- BALANCING VALVE
- 2-WAY CONTROL VALVE
- PIPE STRAINER WITH BLOWDOWN VALVE
- FT — ABOVE FINISHED FLOOR
- A.F.F. — PIPE STRAINER WITH BLOWDOWN VALVE
- CONNECT TO EXISTING
- A / M2 — DETAIL TAG

DRAWING NOTES

1. REMOVE EXISTING EXHAUST FAN DUCTWORK, DAMPERS, CONTROLS, WIRING CONDUIT AND ACCESSORIES. PATCH, PAINT AND REPAIR ALL WALLS AND FINISHES AFFECTED TO MATCH EXISTING FINISHES.
2. REMOVE EXISTING AIR HANDLING UNIT, STEAM PIPING, CONDENSATE PIPING, CONTROLS, DUCTWORK, LOUVERS AND ACCESSORIES AS REQUIRED TO INSTALL NEW AIR HANDLING UNIT. PATCH, PAINT AND REPAIR ALL AFFECTED WALLS, STRUCTURE AND CEILING TO MATCH EXISTING FINISHES.
3. REMOVE EXISTING 5'-0" COUNTER AND BASE CABINETS.
4. REMOVE EXISTING EXHAUST HOOD AND ALL ASSOCIATED DUCTWORK.
5. REMOVE EXISTING COUNTER AND BASE CABINET.
6. PATCH AND PAINT ALL HOLES THRU EXISTING PARTITIONS, MATCH EXISTING FINISHES.

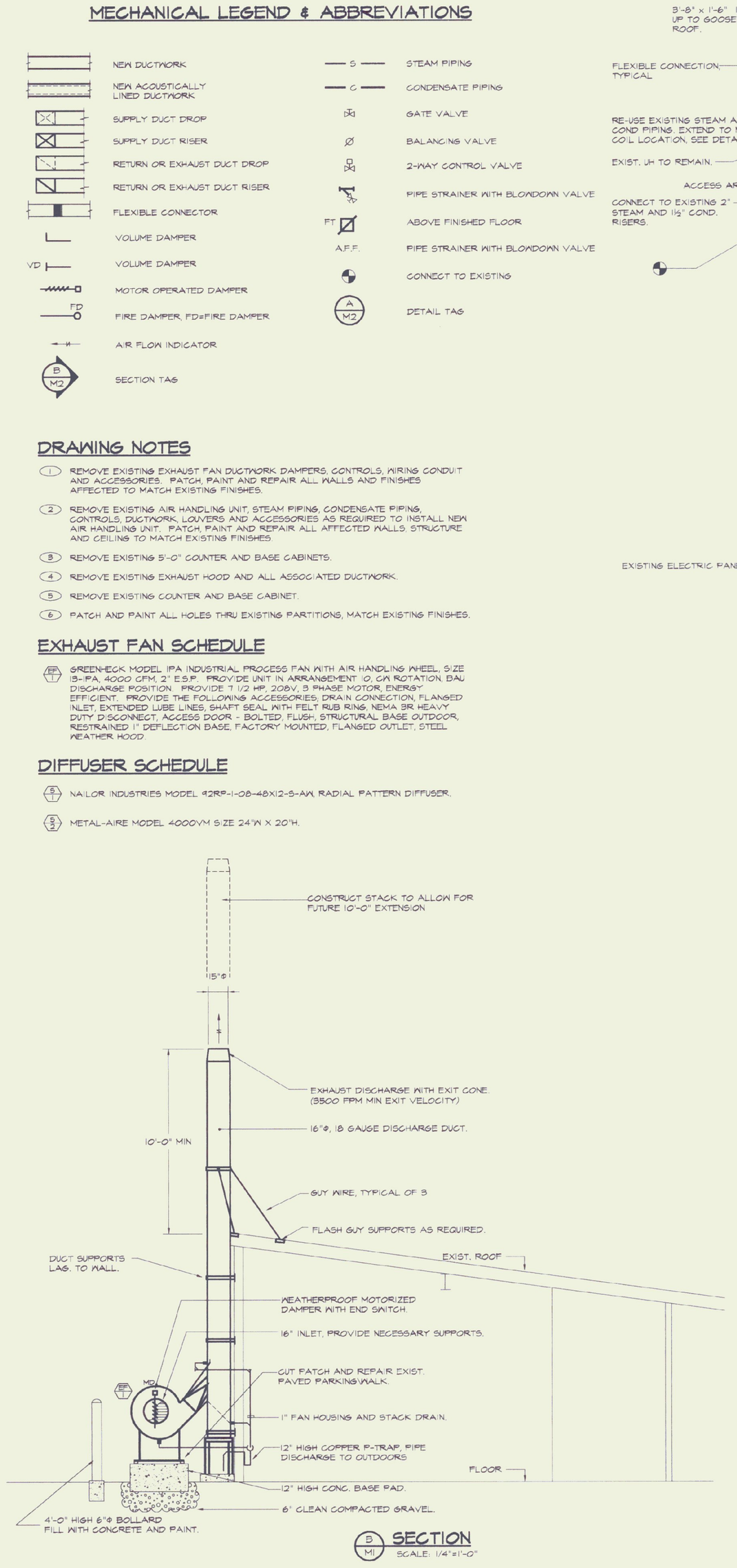
EXHAUST FAN SCHEDULE

FP-1: GREENHECK MODEL IPA INDUSTRIAL PROCESS FAN WITH AIR HANDLING WHEEL, SIZE 13-IPA, 4000 CFM, 2" E.S.P. PROVIDE UNIT IN ARRANGEMENT 10, CW ROTATION, DAL DISCHARGE POSITION. PROVIDE 7 1/2 HP, 208V, 3 PHASE MOTOR, ENERGY EFFICIENT. PROVIDE THE FOLLOWING ACCESSORIES, DRAIN CONNECTION, FLANGED INLET, EXTENDED LUBE LINES, SHAFT SEAL WITH FELT RUB RING, NEMA 3R HEAVY DUTY DISCONNECT, ACCESS DOOR - BOLTED, FLUSH, STRUCTURAL BASE OUTDOOR, RESTRAINED 1" DEFLECTION BASE, FACTORY MOUNTED, FLANGED OUTLET, STEEL WEATHER HOOD.

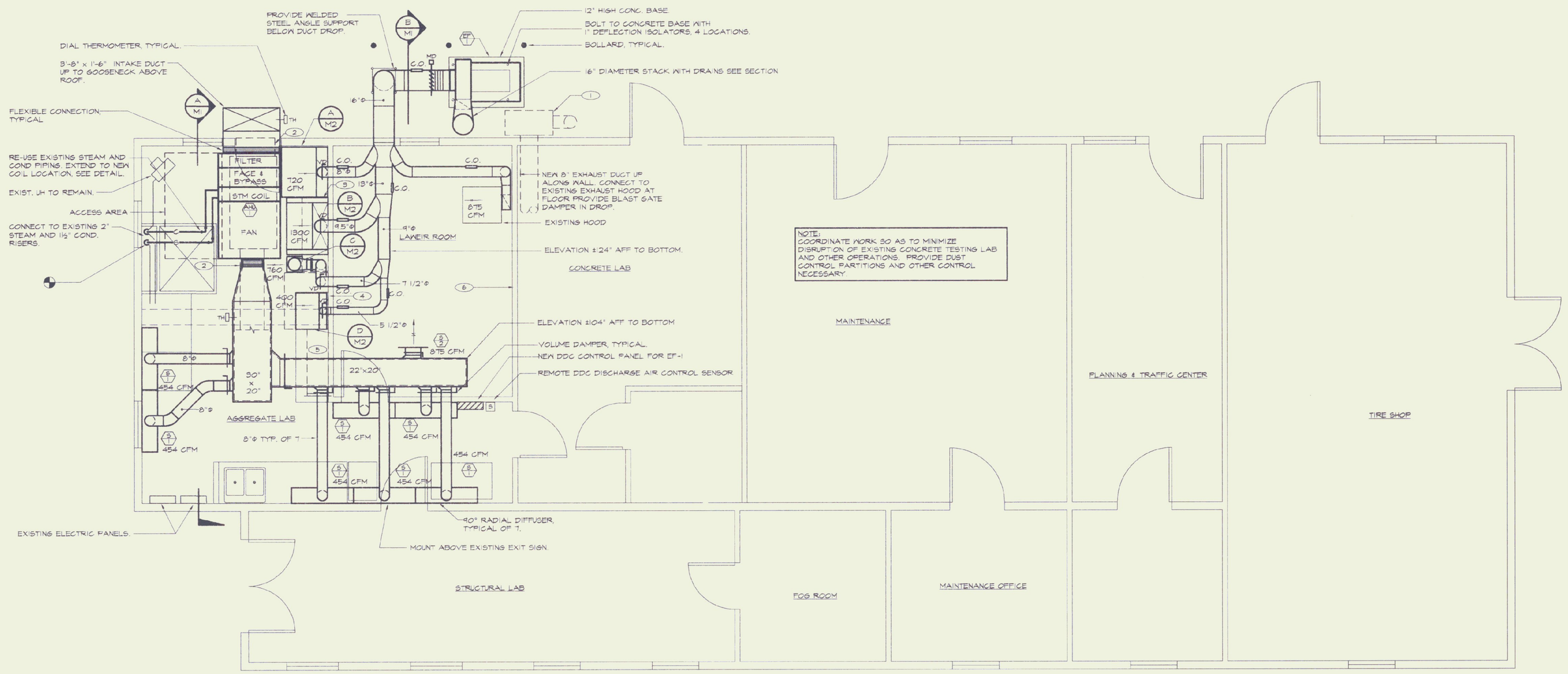
DIFFUSER SCHEDULE

D-1: NAILOR INDUSTRIES MODEL 42RP-1-08-48X12-5-AM, RADIAL PATTERN DIFFUSER.

D-2: METAL-AIRE MODEL 4000VM SIZE 24"W X 20"H.



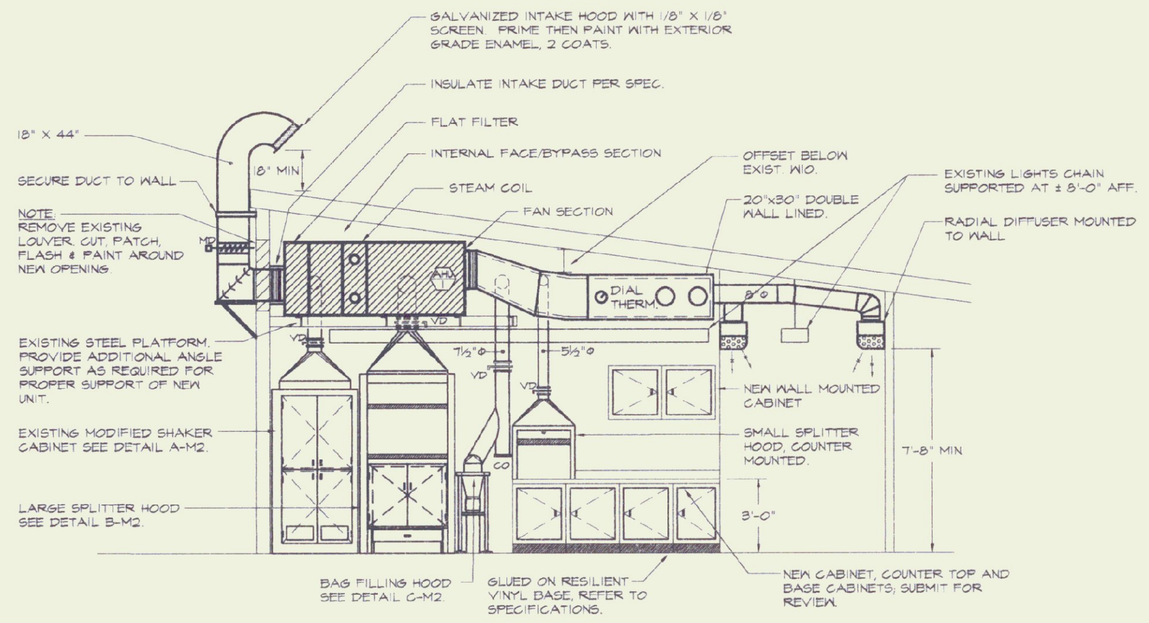
B / M2 SECTION
SCALE: 1/4"=1'-0"



MAIN FLOOR PLAN - MECHANICAL

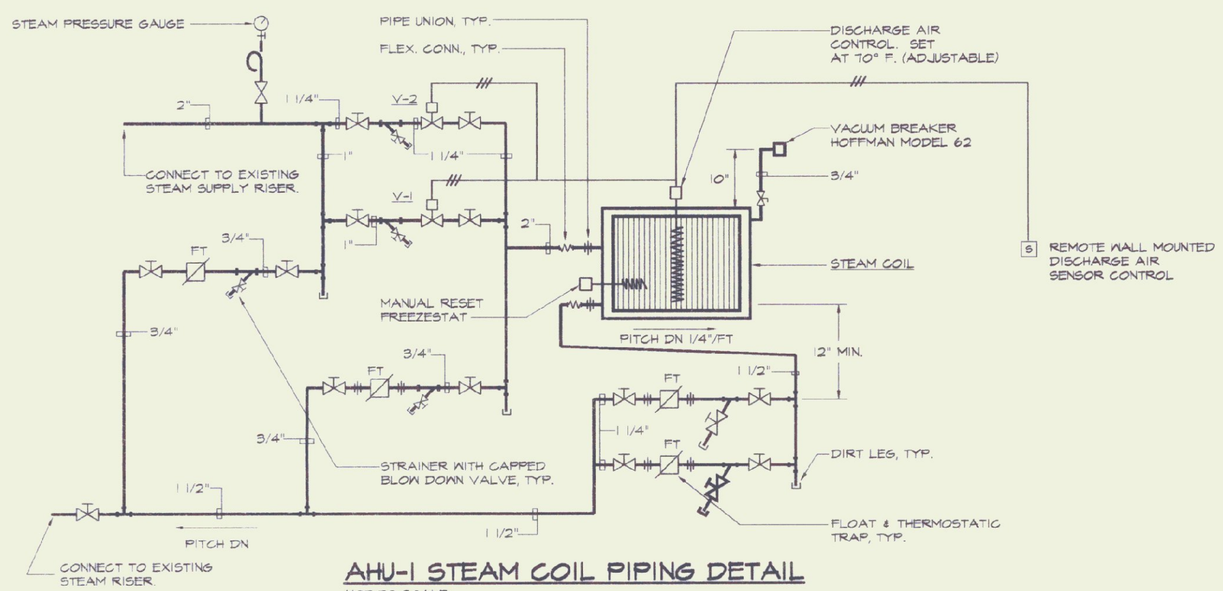
SCALE: 1/4"=1'-0"

NOTE:
ALL ELBOWS IN COLLECTION SYSTEM TO BE LONG SWEEP, ALL TAKE-OFFS TO BE 30° WYE AS DETAILED.



A / M1 SECTION - LOOKING EAST THRU AGGREGATE LAB
SCALE: 1/4"=1'-0"

STEAM VALVE CAPACITY	
VALVE	LB/HR
V-1 (1/3)	133
V-2 (2/3)	266
BASED ON 15 PSI STEAM PRESSURE, VERIFY IN FIELD	



AHU-1 STEAM COIL PIPING DETAIL
NOT TO SCALE

THE STATE OF VERMONT — DANIEL W. DUPRAS NO. 7339 — REGISTERED PROFESSIONAL ENGINEER

NO	REVISIONS	DATE
0	FOR BIDDING	1/29/99

LANE ASSOCIATES CONSULTING ENGINEERS, P.C.

HEATING, VENTILATION, & AIR CONDITIONING, PLUMBING, FIRE PROTECTION, & ELECTRICAL

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AOT AGGREGATE LABORATORY DUST COLLECTION SYSTEM PLANS AND DETAILS

STATE OF VERMONT
DEPARTMENT OF STATE BUILDINGS
AGENCY OF ADMINISTRATION, MONTPELIER, VERMONT

AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH LABORATORY
DUST COLLECTION SYSTEM RENOVATION
BERLIN, VERMONT

M 1

APPR.	DND	DRAWN:	TDL	SCALE:	AS NOTED	PROJ. NO.	9726-08

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