EQUIPMENT SCHEDULE

(106) WALL FAN CONVECTOR WITH SINGLE ROW 1" DIA COPPER/ALUMINUM FINS (4.0"x4.5") COMPLETE METAL CABINET PRIME PAINTED, WALL BRACKETS AND PLATES, DAMPER, BALL BEARING CRADLE ELEMENTS, ETC. SLOPED AIR OUTLET EACH UNIT SHALL BE COMPLETE WITH SHUT-OFF AND PNEUMATIC CONTROL VALVE AUTOMATIC AIR RELIEF VALVE. ELEMENT LENGTH SHALL BE 6 FEET MBH OUTPUT AT 180 DEGREES WATER TEMPERATURE. CABINET SHALL BE 7 FT LONG 12" HIGH ACCESS DOORS AS REQUIRED TRANE SERIES 40 WITH S ENCLOSURE. CONNECT UNIT TO EXISTING HOT WATER MAINS.

(107) EQUAL TO TYPE 106, BUT PEDESTAL TYPE HEATER 8FT LONG. MODEL & FVCES-4C1.

(124) CONSTANT VOLUMN FAN POWERED TERMINAL UNIT WITH THREE FOOR SOUND STTENUATOR DOUBLE ROW HOT WATER HEATING COILS AT RETURN AIR INLET PNEUMATIC CONTROL ACTUATOR FOR DIRECT ACTING THERMOSTAT, COIL SHALL BE COMPLETE WITH GLOBE VALVE, ON-OFF VALVE, UNIONS AND FACTORY CONNECTED CONTROL SYSTEM. EH PRICE SIZE C10 1000 CFM CAT. FPCBI2 OR APPROVED EQUAL COMPLETE WITH RETURN AIR FILTER WITH EACH UNIT

(125) SIMILAR TO EQUIPMENT #124, BUT 1500 CFM UNIT SIZE C12

GRILLE/DIFFUSER SCHEDULE

A DOUBLE DEFLECTION SUPPLY AIR GRILLE ALUMINUM MILL FINISH AND CLEAR COATING VISIBLE BLADES LENGTH WISE, 12mm BLADE SPACING, BALANCING DAMPER; NARROW FRAME WITH COUNTER SUNK SCREWS, PLASTER FRAME, BALANCING DAMPER AND SHEET METAL CONNECTIONS BOOTH, INSTALL IN DRYWALL CEILING EXACT LOCATION AS PER ARCHITECT'S DRAWINGS. EQUAL TO E.H. PRICE 500 SERIES. SIZE IS 24"x6" UNLESS OTHERWISE NOTED.

B SUPPLY AIR DIFFUSER 24"x24" MOUNTED IN T-BAR CEILING. ALUMINUM MILL FINISH AND CLEAR COATING FINISH. CONE DISTRIBUTION ROUND NECK ADAPTOR COMPLETE WITH BALANCING DAMPER ETC. NECK SIZE AND CFM RATING ALL SHOWN ON DRAWINGS. EXACT LOCATION AS PER ARCHITECT'S DRAWINGS. EQUAL TO E.H. PRICE AMDA SERIES.

C SIMILAR TO TYPE 'B' (24"x24"), BUT DIFFUSERS LOCATED IN DRYWALL CEILING COMPLETE WITH BRUSHED ALUMINIUM PLASTER FRAME

D EXISTING 12"x6" SUPPLY GRILLE WITH 6' OF 6" ROUND DUCT SUPPLIED BY OTHERS. THE CONTRACTOR TO PICK UP GRILLES FROM OWNER AND INSTALL IN SKYLIGHTS CONNECT AND BALANCE AS SHOWN.

E SIMILAR TO TYPE 'C', BUT 12"x12" IN DRYWALL CEILING.

F SIMILAR TO TYPE C, BUT 12"x12" (DRYWALL/WOOD)

G SIMILAR TO 'F', BUT E.H. PRICE AMCD SERIES

K EXPANDED GALVANIZED METAL SCREEN IN FRAME MOUNTED AT END OF DUCT OR CONNECTED WITH FRAME IN DRYWALL COVE. SAME SIZE AS DUCT.

L RETURN AIR LOUVRE. CHECK ARCHITECTURAL DRAWING FOR CEILING TYPE 24"x6" WHITE ALUMINUM 3/4"x3/4"x3/4" CUBE COMPLETE WITH FRAME IN DRYWALL CEILING.

RD RETURN AIR LOUVER WITH SHEET AIR BOOTH AND VOLUME DAMPER AND DUCT CONNECTION IN NARROW DRYWALL FRAME WITH COUNTER SUNK SCREWS 0.5x0.5"x0.5" ALUMINIUM CUBE CORE ALL ALUMINUM MILL FINISH AND CLEAR COATING ALUMINIUM SIZE IS 24"x6" UNLESS OTHERWISE NOTED ON DRAWINGS.

RT SAME AS 'RD', BUT IN 'T-BAR' CEILING

REMOVE EXISTING HOT WATER HEATER INCLUDING PIPING TO MAINS ADD INSTALL NEW EQ.#106 INCL. PIPING AND CONTROLS

SPRINKLER

CUSTODIAN 104

HTG. PIPES TO CABINET HEATER AND IDENTIFY

OBTAIN COUNTER WITH SINK FROM OWNER'S AND CONNECT TO EXISTING SERVICES TO SUIT SITE CONDITIONS

CONNECT TO EXISTING MAINS

TYPICAL FOR 10

7'-6" TYPICAL

12"x24" L SHAPED WITH ACOUSTIC LINING

INSTALL EQUIPMENT AND RUN ALL PIPING BETWEEN JOISTS (TYPICAL)

16"x8" OPENING IN DRYWALL ABOVE DOORS IN CEILING SPACE FOR RETURN AIR PURPOSES (TYPICAL)

INSTALL IN PARTITION

L1 1/4" H/C CAP & VALVE

EXISTING F.H.C. INSTALL NEW FRAME AND RECESS INTO WALL

SOIL STACK AND FIRE SERVICE PIPE TO REMAIN

Existing retaining wall

Line of bridge above

SUPPLY AND INSTALL ACOUSTIC FOAM/BLANKET UNDER UNIT

SUPPLY AND INSTALL ACCESS PANEL UNDER VAV UNIT

EX. CV VAV TERMINAL AND ASSOCIATED DUCT WORK TO REMAIN

NOTE:
CLEAN EXISTING SUPPLY AND RETURN DUCTS

52x18 (TOP)
52x24 (BOTTOM)

MATCH LINE FOR CONTINUATION OF WORK REFER TO M-10

ISSUE RECORD

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TRENT UNIVERSITY
OTONABEE COLLEGE
RENOVATION PROJECT
PHASE 2

Drawing:
LOWER LEVEL 'A'
MECHANICAL

Scale: 1/8" = 1'-0" 0 1 5 10 ft

Date: MAY 2 1997
Project No.: 705
Revision No.: 3
Issue No.: 2
Drawing No.: M-9

MECHANICAL LEGEND:

- CONNECT NEW PIPING TO EXISTING PIPE USE SUITABLE CONNECTIONS ETC. EXTEND INSULATION. ALL TO MATCH EXISTING
- UNDERGROUND CAST IRON OR SIMILAR SANITARY DRAIN PIPE CUTTING OF FLOOR, EXCAVATION BACKFILLING WITH GRAN. 'A' MATERIAL COMPACTING AND REPAIR OF FLOOR ALL BY PLUMBING CONTRACTOR
- 'A' TOILET WITH SHUT-OFF VALVE AS PER SCHEDULE
- 125 AIR TERMINAL SUPPLY UNIT WITH HOT WATER HEATING COIL AS PER EQUIPMENT SCHEDULE. INSTALLED AND CONNECTED AS PER MANUFACTURER'S RECOMMENDATIONS
- EXISTING DUCT WORK WITH NEW CONNECTION AND BALANCING DAMPER AS NOTED. SEAL AND REPAIR INSUALTION.
- REPLACE EXISTING CONNECTION WITH NEW AS NOTED.
- HW / HW — NEW HYDRONIC CONNECTION TO EXISTING MAIN PIPING SYSTEM, REPAIR INSULATION. USE BALLVALVES ETC. ALL AS PER SPECIFICATIONS.
- R RETURN AIR GRILLE OR LOUVER AS PER SCHEDULE
- SUPPLY AIR LOUVER OR DIFFUSER AS PER SCHEDULE. CONNECT WITH RIGID DUCT TO MAIN SUPPLY DUCT AS NOTED. 'A' DENOTES TYPE. '100' DENOTES CFM. '5' DENOTES NECK SIZE.
- MAIN DUCT WORK BETWEEN JOISTS OR STEEL BEAM, WITH 1" INTERNAL ACOUSTIC LINING AND FLARED CONNECTING BRANCH DUCT TO DIFFUSER AND FLEX CONNECTION TO SUPPLY EQUIPMENT
- BALANCING DAMPER

- Rigid branch take-off, flared fitting square to round, min. 600mm apart.
- Door grill, see schedule.
- A1 6 / 100 Equipment type symbol. See schedule.
- T Electronic programmable thermostat with locked plastic cover.
- Low voltage, multi conductor CSA approved,plennum type, control wiring by Mechanical Contractor.
- VD Balancing damper with handle and set-point, the number denotes the CFM setting.
- FD FD Fire damper UL rated and approved, blades must be out of airstream. Provide UL rated access-panels where required.
- MD Motorized damper, actuator and 24V transformer. Equal to Greenheck VCD series, sized as shown. Interlock with equipment as shown.
- S S Existing Underground sanitairy sewage drain pipe min 4" dia. V denotes vent pipe as per code.
- S S As above, but above ground.
- ST ST Existing Underground storm water drain pipe.
- ST Above ground storm water drain pipe.
- RD Existing Roof drain.
- FD Existing Cast iron 100mm floor drain with strainer, P-trap and primed.
- V Existing Clean-out locate in non-traffic areas, spaced as per code requirements, flush mounted. (V denotes vent pipe as per code.)
- HW HW Existing Hot water supply and return pipes, insulated.
- CHF CHF Existing Chilled water pipes, supply and return, insulated.
- Existing Shut-off valve.
- B Existing Balancing valve.
- Existing Motorized valve.
- 3 Existing 3 way mixing valve.

PLUMBING SCHEDULE:

A) EXISTING HANDICAPPED TOILET IN OWNER'S STORAGE (IN BUILDING) OBTAIN FROM OWNER AND REPORT AND RECORD DAMAGE EQUIPMENT IN WRITING WITH FIVE DAYS. REPLACE SEATS, CONNECTIONS (AMERICAN STANDARD OR TRANE "NEW QUALITY" REPLACEMENT PART) HARDWARE, SEALS, SHUT-OFF VALVES ETC. AND INSTALL UNIT IN NEW LOCATION. SEAT EQUAL TO CENTOCO 500CL WITH STAINLESS STEEL HINGES AND SCREWS.

B) EXISTING REGULAR TOILET SIMILAR TO ABOVE.

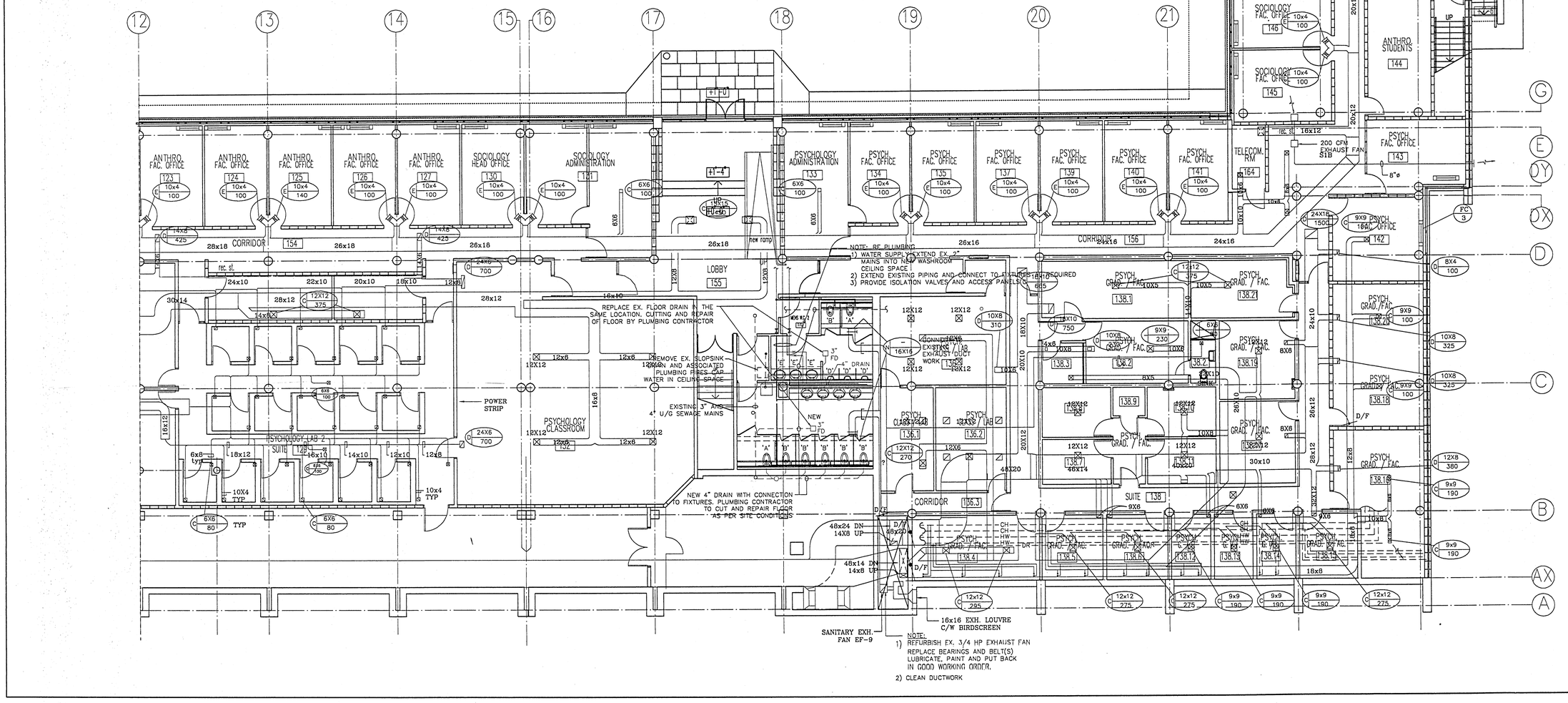
C) SUPPLY AND INSTALL NEW COMPLETE TOILET TO MATCH EXISTING IN ADDITION TO THE EXISTING

D) EXISTING URINAL AND CARRIER FRAME SIMILAR TO TYPE A INSTALL IN EXISTING WALL. CUT AND REPAIR WALL AS REQUIRED. PROVIDE NEW BOLTS, CAP TAIL AND STAINLESS STEEL SCREEN, CHROME 'P-TRAP', CHROME PIPE AND WALL CONNECTIONS NEW FLUSH VALVE EQUAL TO AMERICAN STANDARD CAT# 811231

E) UNIVERSAL ACCESS SINK, VITREOUS CHINA OVAL SHAPE, FOR INSTALLATION IN COUNTER, COMPLETE WITH MOUNTING HARDWARE, P-TRAP, SINGLE LEVER CHROME FAUCET AND 50mm DRAIN. AMERICAN STANDARD CAT.#AF-9494 AND GV2000.100.002

FD) FLOOR DRAIN WITH P-TRIP. SMITH CAT#2010. INSTALL IN EXISTING FLOOR

F) COUNTER MOUNTED STAINLESS STEEL BAR SINK WITH BACKLEDGE, STRAINER, P-TRAP SHUT-OFF VALVES, GASKET AND DECK MOUNTED GOOSENECK FAUCET, ALL EQUAL TO AMERICAN STANDARD CAT.#AE-7142 AND TECK CAT. #2673833.



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TRENT UNIVERSITY
OTONABEE COLLEGE
RENOVATION PROJECT
PHASE 2

Drawing:
LOWER LEVEL 'B'
MECHANICAL

Scale: 1/8" = 1'-0" 0 1 5 10 ft

Date: MAY 2 1997
Project No.: 705
Drawing No.: M-10
Revision No.: 3
Issue No.: 2

NOTE:
1) EXACT LOCATION OF DIFFUSERS AND GRILLES AS PER ARCHITECT'S DIRECTIONS (TYPICAL FOR ALL)

RETURN AIR SLOT (APPROX. 6") BETWEEN PARTITION WALLS. SEE ARCH DWGS.

16"x16" RETURN AIR OPENINGS IN WALL ABOVE CEILINGS.

DEMARKATION LINE BETWEEN NEW ROOF AND ROOF-STEEL SPRAY-ON FIRE PROOFING AND/EXISTING TO REMAIN. SEE ARCHITECTURAL DRAWINGS. INSTALL FIRE DAMPERS AND DIFFUSER FIRE FLAPS WHERE DUCT WORK CROSSES.

CONVECTOR 48"x24"x6R 7.2 MBH

CONVECTOR 28"x24"x6R 4.0 MBH

EXISTING WALL MOUNTED HOT WATER HEATING UNITS TO BE RELOCATED TO FLOOR LEVEL INCLUDING PIPING CONTROLS ETC.

DRYWALL RETURN AIR PLENNUM SERVING MAIN AIR HANDLERS

RELOCATE EXISTING WALL HYDRANT

EXHAUST HOOD

EXTEND RETURN AIR DUCT INTO CORRIDOR CEILING SPACE

24"x24" RETURN AIR DUCT UP

EXTEND 26x40 RETURN AIR DUCT INTO CORRIDOR CEILING SPACE REMAIN CEILING CUT AWAY NEAR WALL OBTAIN STRUCTURAL ENGINEER APPROVAL INSTAL NEW FIRE DAMPER

CONNECT FIXTURES TO EXISTING SERVICES

CONNECT IN MECH. ROOM

CONNECT TO EXISTING

CORRIDOR 227

SENIOR COMMON ROOM 204

SEMINAR ROOM 205

SEMINAR ROOM 206

LECTURE HALL 216

RELOCATE EXISTING FIRE HOSE CABINET

REPLACE 10x6 CONNECTION WITH NEW CONNECTION (TYPICAL)

REPLACE 18x8 CONNECTIONS CONNECTION (TYPICAL)

EXISTING HOT WATER HEATING MAINS

CONNECT TO EXISTING MAINS (TYPICAL)

CONNECT TO EXISTING DUCTWORK (TYPICAL)

REMOVE DUCT WORK HANGERS ETC. & REPAIR FIRE PROOFING

NOTE:
RUN BRANCHES BETWEEN LIGHTING FIXTURES (TYPICAL)

OFF SLAB

UP AT SLAB

RELOCATE THERMOSTAT

LADDER BETWEEN MECH. RM AND TUNNEL

TO BELOW

MAINTAIN EQUAL SPACING BETWEEN UNITS AND COLUMNS (TYPICAL)

NOTE:
1) REMOVE ALL TOILETS, BASINS, URINALS, PIPING VALVES ETC. CAP DRAINS AT FLOOR
2) CLEAN TOILETS, AND URINALS
3) TURN TOILETS, URINALS AND CARRIER FRAME OVER TO OWNERS FOR FUTURE INSTALLATION TYPICAL FOR 4 FIXTURES.

FOR CONTINUATION SEE DWG# M-12

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TRENT UNIVERSITY
OTONABEE COLLEGE
RENOVATION PROJECT
PHASE 2

Drawing:
UPPER LEVEL 'A' MECHANICAL

Scale: 1/8" = 1'-0" 0 1 5 10 ft

Date: MAY 2 1997
Project No.: 705
Drawing No.: M-11
Revision No.: 3
Issue No.: 2

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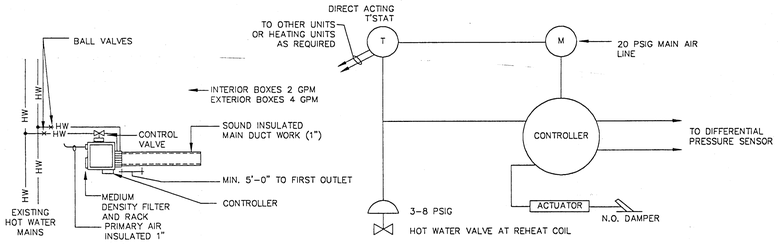
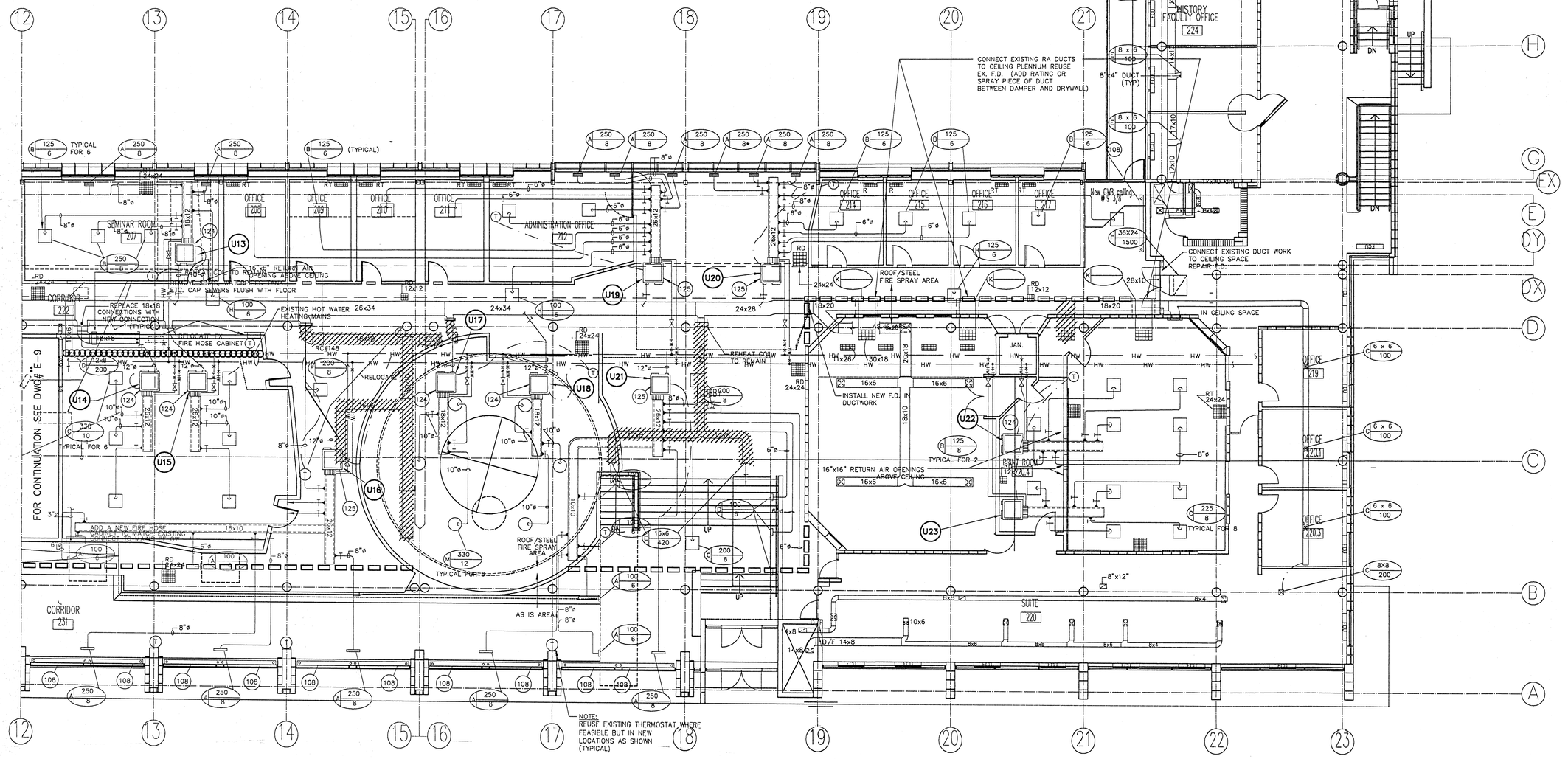


TYPICAL CONSTANT VOLUME FAN POWERED
TERMINAL UNITS CONTROLS & DETAILS
(EQUIPMENT #124 & 125)



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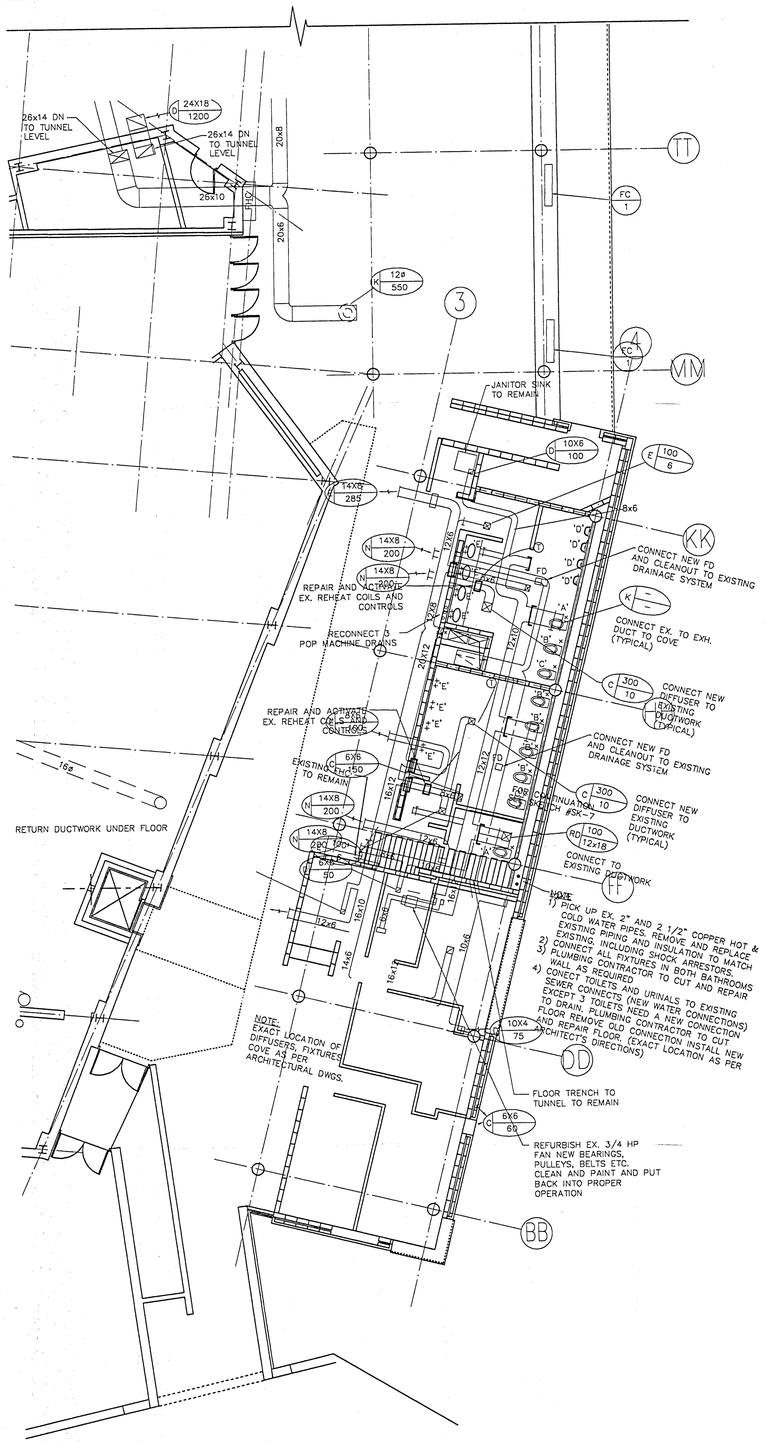
RENOVATION PROJECT
PHASE 2

Drawing:

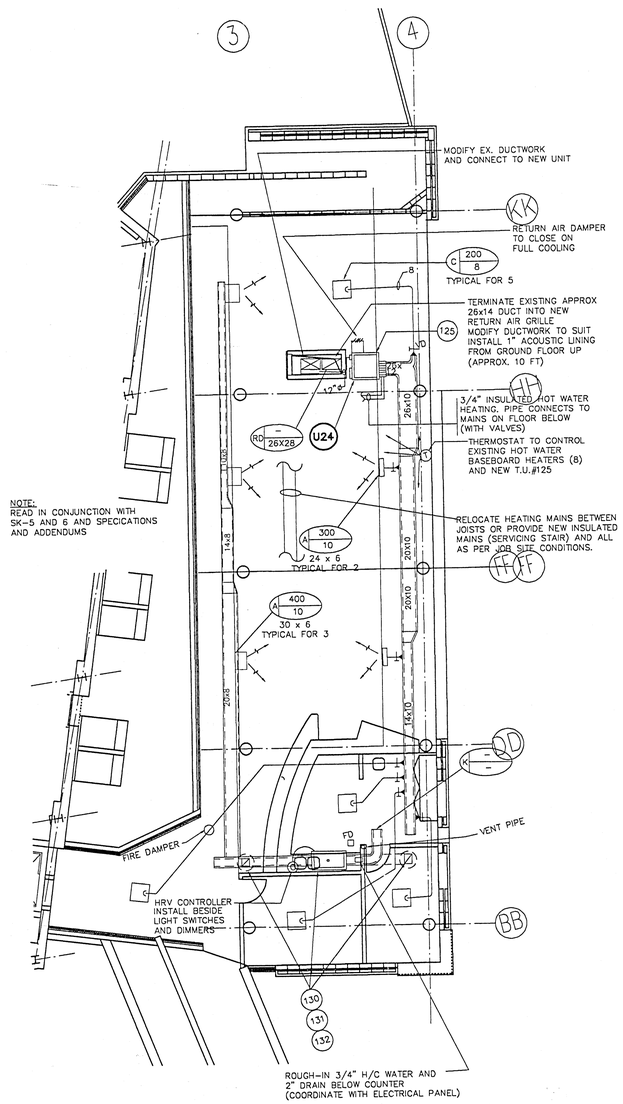
UPPER LEVEL 'B' MECHANICAL

Scale: 1/8" = 1'-0" (0 1 5 10 ft)

Date	Drawing No.
MAY 2 1997	M-12
Project No. 705	
Revision No.: 3	Issue No. 2

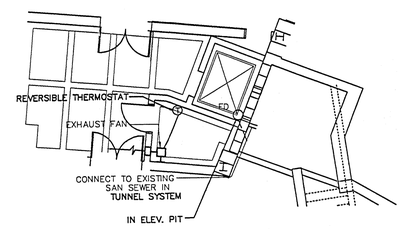


GROUND LEVEL PLAN



SECOND LEVEL PLAN

PARTIAL BASEMENT PLAN



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PHASE 2

Drawing:
WENJACK THEATRE
MECHANICAL

Scale: 1/8" = 1'-0" 0 1 5 10 ft

Date: MAY 2 1997
Project No.: 705
Revision No.: 3
Issue No.: 2
Drawing No.: M-13