



SCALE 1:100

NOTES

1. DISCONNECT AND REMOVE EXISTING HYDRO - PNEUMATIC SYSTEM TANK, PUMPS AND PIPING.
2. CAP-OFF EXISTING 75HP CW MAIN.
3. EXISTING 75 CW MAIN TO EXISTING BUILDING.
4. CONNECT NEW 150 FIRE MAIN TO EXISTING FIRE MAIN. PROVIDE ELEC. SUPERVISED VALVE.
5. CONNECT NEW 75 H.P. CW TO EXISTING 75 MAIN WITH VALVE.
6. CONNECT NEW 64" LP HWS TO EXIST. TANK WITH VALVE. CONNECT NEW 25" L.P. HWK TO EXISTING 32 HWS PUMP SUCTION. PROVIDE VALVE ON EXISTING 32" MAIN, AND NEW 25" MAIN.
7. CONNECT NEW 64HP HWS AND 32 HP HWK TO EXISTING PIPING WITH VALVES. REMOVE PIPING TO EXISTING TANK.
8. DISCONNECT AND REMOVE EXISTING H.P. HW TANK.
9. 38" COND. AIR CONNECTED TO EXISTING CONTROL AIR STORAGE TANK WITH VALVE.
10. CAP-OFF 64" H.P. CW.
11. REFER TO DRG M36 FOR PIPING DIAGRAM OF ORAL VACUUM SYSTEM AND DENTAL COMPRESSED AIR SYSTEM.



SCALE - 1:200



SCALE - 1:100


Diagram illustrating a vertical sewer line with manholes and connections to existing buildings. The line is labeled "NEW ADDITIONS" on the left and "EXIST. BUILDING" on the right. The manholes are numbered 1 through 5, with additional labels PR, P, and B. The elevations at each manhole are provided in feet.

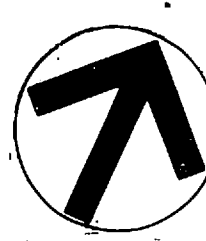
Manhole / Label	Elevation (ft)	Side
PR	119.831	NEW ADDITIONS
P	116.030	NEW ADDITIONS
5	112.231	NEW ADDITIONS
4	108.431	NEW ADDITIONS
3	104.631	NEW ADDITIONS
2	99.603	NEW ADDITIONS
1	94.591	NEW ADDITIONS
B	90.891	NEW ADDITIONS
MECH. ROOM	89.824	NEW ADDITIONS
DUST COLLECTOR	87.630	NEW ADDITIONS
P	116.031	EXIST. BUILDING
5	111.531	EXIST. BUILDING
4	107.549	EXIST. BUILDING
3	103.761	EXIST. BUILDING
2	99.609	EXIST. BUILDING
1	94.591	EXIST. BUILDING

BUILDING ELEVATIONS

SCALE 1:100

2 REVISED AS BUILT JUNE '85

NO	REVISION	DATE	BY
<p>R.P. ALLSOP AND ASSOCIATES (1971) LTD. Consulting Engineers MARKHAM ONTARIO</p>			



ALLWARD & GOUINLOCK
ARCHITECTS • PLANNING CONSULTANTS

1127 LESLIE STREET · DON MILLS ONTARIO

ADDITIONS & ALTERATIONS
FACULTY OF DENTISTRY
UNIVERSITY OF TORONTO

PROJECT	UNIVERSITY OF TORONTO
SITE	PLAN, FOUNDATION
TITLE	PLUMBING

TITLE			
DRAWN	S.G. W.D.	COMM	7781
CHECKED	SK		

SCALE AS NOTED
DATE AUG. 19/82. DWG NO M-1
CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS

LEGEND

- SAN — SANITARY SEWER
- ST — STORM MAIN
- CHEM — CHEMICAL DRAIN
- SANITARY VENT
- F — FIRE MAIN
- SP — SPRINKLER MAIN
- LP — COLD WATER
- LP — DOM. HOT WATER
- LP — DOM. H.W. RETURN
- HP — COLD WATER
- HP — DOM. HOT WATER
- HP — DOM. H.W. RETURN
- DW — DISTILLED WATER
- G — NATURAL GAS
- DA — DENTAL AIR
- V — VACUUM
- OV — ORAL VACUUM
- A — COMPRESSED AIR

SP/E — ELECTRIC SUPERVISED POINT (VALVE/PRESS. SWITCH)

- HW — HEATING SUPPLY
- HW — HEATING RETURN
- GLH — GLYCOL HEATING SUPPLY
- GLH — GLYCOL HEATING RETURN
- GLD — GLYCOL DRAIN
- GLS — GLYCOL SUPPLY MAIN (15 PSI AND BELOW)
- — — — — STEAM MAIN
- — — — — 60 PSI STEAM MAIN
- — — — — 15 PSI STEAM MAIN
- — — — — 15 PSI (AND BELOW) COND. RETURN
- — — — — 60 PSI COND. RETURN
- — — — — 15 PSI COND. RETURN
- SV — STEAM RELIEF VENT
- P — PUMPED COND. RETURN
- SM — SNOW MELTING SUPPLY MAIN
- SM — SNOW MELTING RETURN MAIN
- CWS — COND. WATER SUPPLY
- CWR — COND. WATER RETURN
- CHS — CHILLED WATER SUPPLY
- CHR — CHILLED WATER RETURN
- — — — — EXISTING PIPES (NOTED)

NOTE

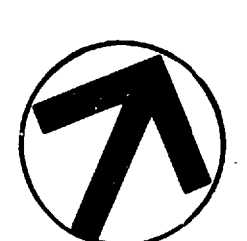
1. 4.5 KG DRY CHEMICAL EXTINGUISHER (N.I.C.)
2. 9.0 KG DRY CHEMICAL EXTINGUISHER (N.I.C.)
3. NEW AIR OPERATED CONTROL VALVE (NATURAL GAS ONLY)
4. EXISTING 12" GAS AND AIR SERVICE PANELS TO REMAIN. PROVIDE NEW VALVES ON EXISTING MAINS.
5. DISCONNECT & REMOVE EXISTING PIPING & CAP-OFF AT MAINS
6. MODIFY EXISTING D.U. PANELS AS INDICATED ON DWG M-4.
7. DISCONNECT EXISTING 12" AIR GAS & CW MAINS CAP-OFF BRANCHES AND RECONNECT SERVICES TO D.U. TO NEW MAINS
8. CONNECT TO EXISTING PIPING.
9. PROVIDE VALVES ON HPCW HW & HWR COMPLETE WITH 19 DRAIN VALVES

REVISED AS-BUILT JUNE 85 SW
ISSUED FOR TENDER + PERMIT AUG 82

NO. REVISION DATE BY

R.P. ALLSOP AND ASSOCIATES (1977) LTD.
Consulting Engineers
MARKHAM ONTARIO

S.A. HUDSON
PROF. ENGINEER
19-011
PROVINCE OF ONTARIO

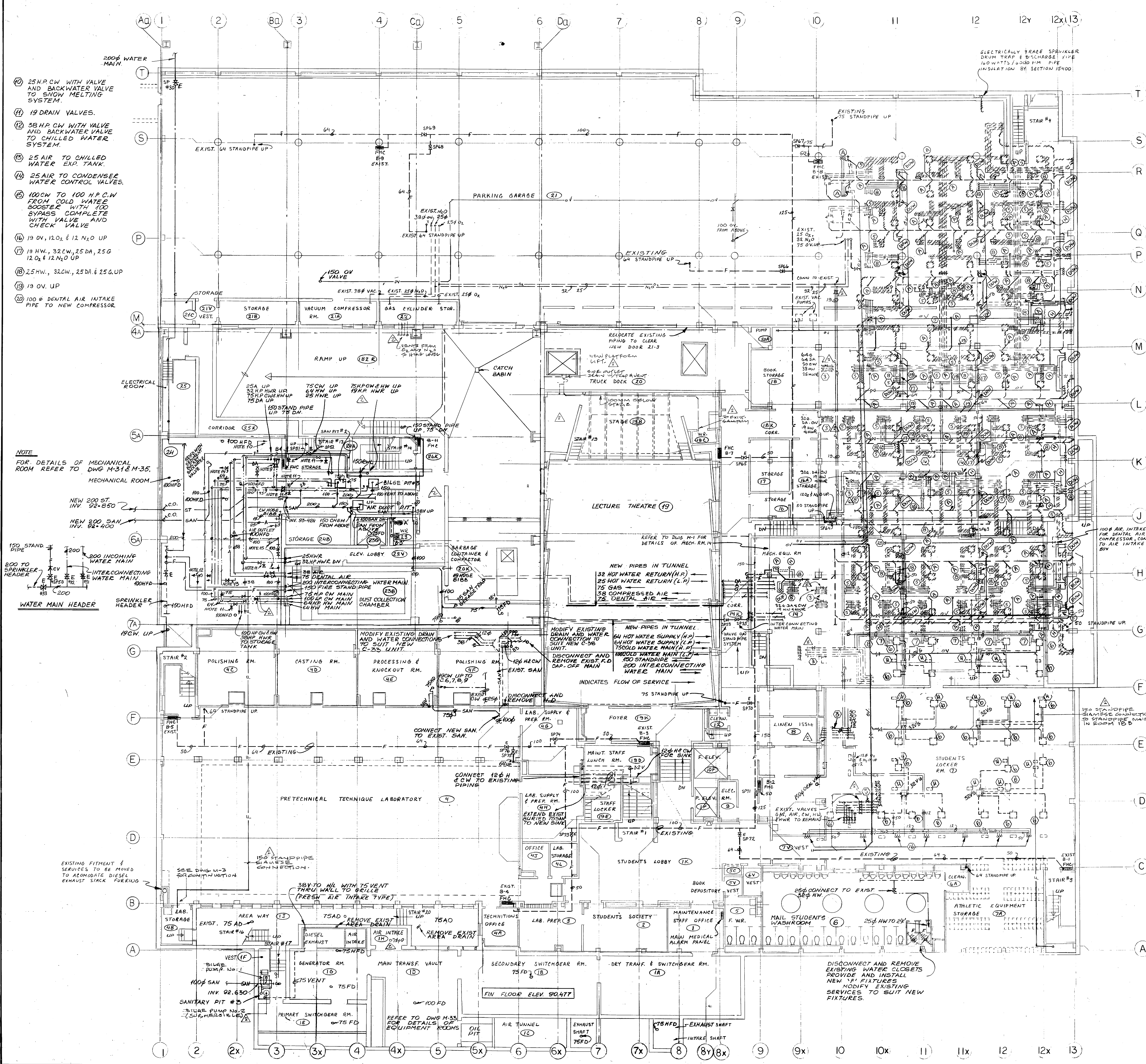


ALLWARD & GOUNLOCK
ARCHITECTS - PLANNING CONSULTANTS

1127 LESLIE STREET DON MILLS ONTARIO

ADDITIONS & ALTERATIONS
FACULTY OF DENTISTRY
UNIVERSITY OF TORONTO
BASEMENT FLOOR PLAN
PLUMBING

TITLE W.D. 7781
DRAWN C.K.
CHECKED
SCALE 1:100
DATE AUG 19/82 M-2
CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS



10. 25 H.P. CW WITH VALVE AND BACKWATER VALVE TO SNOW MELTING SYSTEM.
11. 19 DRAIN VALVES.
12. 38 H.P. CW WITH VALVE AND BACKWATER VALVE TO CHILLED WATER SYSTEM.
13. 25 AIR TO CHILLED WATER EXP. TANK.
14. 25 AIR TO CONDENSED WATER CONTROL VALVES.
15. 100 CW TO 100 H.P. C.W. FROM COLD WATER BOOSTER WITH 100 BYPASS COMPLETE WITH VALVE AND CHECK VALVE.
16. 19 OV, 12 O₂ & 12 N₂ O UP
17. 19 HW, 32 CW, 25 DA, 25 G 12 O₂ & 12 N₂ O UP
18. 25 HW, 32 CW, 25 DA & 25 G UP
19. 19 OV UP
20. 100 Ø DENTAL AIR INTAKE PIPE TO NEW COMPRESSOR

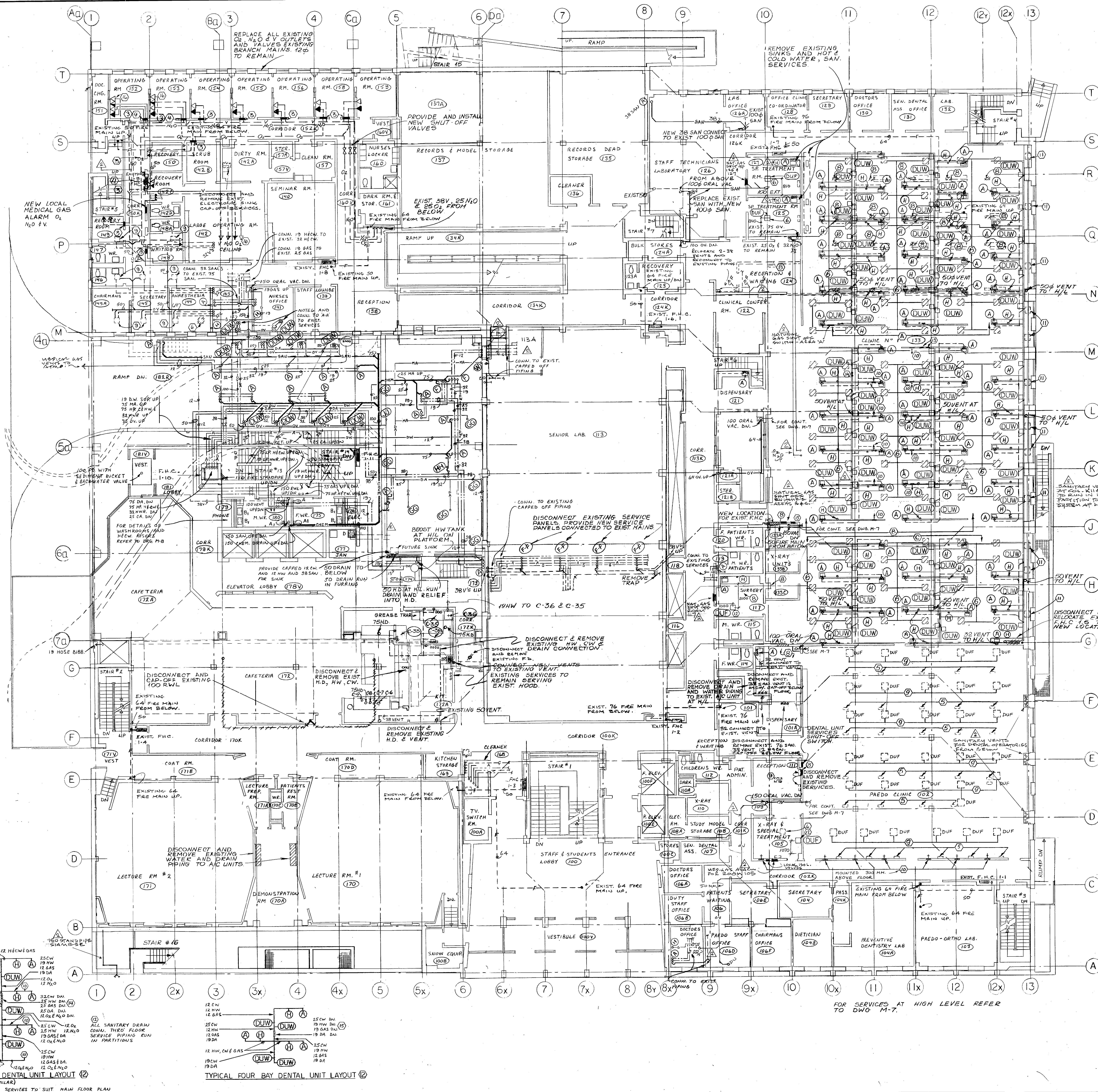
NOTE
FOR DETAILS OF MECHANICAL ROOM REFER TO DWG M-31 & M-35.

NEW 200 ST. INV. 92-850
NEW 200 SAN INV. 92-400
150 STAND PIPE
200 TO SPRINKLER HEADER
200 TO INCOMING WATER MAIN
INTERCONNECTING WATER MAIN
WATER MAIN HEADER
SPRINKLER HEADER

EXISTING FITMENT & SERVICES TO BE MOVED TO ACCOMMODATE DIESEL EXHAUST STACK PARKING

LAB. STORAGE
EXIST. 75 AD
STAIR #16
STAIR #17
VEST. (1F)
BILGE PUMP NO. 1
100 Ø SAN
INV. 92-630
SANITARY PIT #3
BILGE PUMP NO. 2
(SUBMERSIBLE & 1/2")

LAB. STORAGE
UP



METRIC

SERVICE PANELS

TYPE	SAN	CW	HW	DW	DA	G	OV
(A)	38	12	12				
(H)						12	
(B)	38	12			12		32
(D)	38	19	19		19		
(E)					19	19	
(F)	50	19	19		25	25	

NOTES

- 4-5/8\"/>
- 3/4\"/>
- EXISTING 1/2\"/>
- EXISTING 1/2\"/>
- EXISTING GAS/HVAC FLOOR SERVICE PANELS TO REMAIN, PROVIDE NEW VALVES ON EACH MAIN
- DISCONNECT AND REMOVE ALL SERVICES TO EXISTING DU PANELS
- VENT RUN IN LOW PARTITION
- DISCONNECT AND REMOVE EXISTING HW, CW, SAN, AIR AND GAS SERVICES TO FILTRATION AND THIRD FLOOR
- REUSE DU PANELS AS INDICATED ON DWG. M-4
- MEDICAL GAS OUTLETS O₂, N₂O, O₂ WITH 25\"/>
- REMOVE EXISTING SINKS AND SERVICES, COUNTER TO REMAIN
- PROVIDE & INSTALL SERVICES TO NEW DU PANEL FROM EXIST. SERVICES
- SHUT-OFF VALVES FOR O₂, N₂O AND LOCAL ALARM (FLOOR 1) PARTITIONS - 1/2\"/>
- 1/2\"/>
- SHUT-OFF VALVES FOR O₂, N₂O 1/2\"/>
- PROVIDE AND INSTALL VAC. OUTLET SIMILAR TO ORAL VAC. OUTLET ADJACENT TO MEDICAL GAS OUTLETS (CORR. RM.) AND CONNECT TO NEW 1/2\"/>

REVISIONS

NO.	REVISION	DATE	BY
1	REVISED AS BUILT	JUNE 88	SW
2	MAILED FOR TENDER - PERMIT (D.S. 13.02)		

R.P. ALLSOP AND ASSOCIATES (INC.) LTD.
Consulting Engineers
MARKHAM, ONTARIO

S.A. HUDSON
Professional Engineer
1991
Province of Ontario

ALLWARD & GOINLOCK
ARCHITECTS - PLANNING CONSULTANTS

1127 LESLIE STREET - DON MILLS, ONTARIO

ADDITIONS & ALTERATIONS
FACULTY OF DENTISTRY
UNIVERSITY OF TORONTO

PROJECT
1ST FLOOR
PLUMBING

TITLE
W.D.

CHECKED
F.R.

DRAWN
F.R.

SCALE
1:100

DATE
AUG. 19/82

CONTRACTOR
M-3

CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS

TYPICAL SIX BAY DENTAL UNIT LAYOUT (NOTE 5 BAY SIMILAR)

TYPICAL FOUR BAY DENTAL UNIT LAYOUT

METRIC

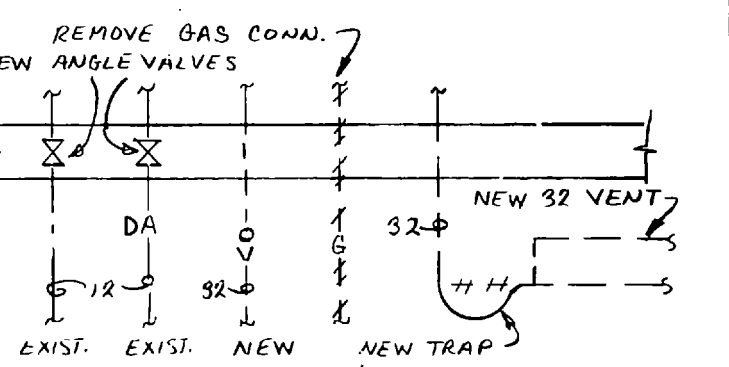
SERVICE PANELS

TYPE	SAN	CW	HW	DW	DA	G	OV
(A)	38	12	12				
(B)	76	19	19	12			
(C)	76	12	12	12			
(D)	76	12	12		12	12	
(E)	32	12			12		32
(F)	76	12	12				
(G)	38	19	12		12	12	
(H)	38	19	19		12	12	
(I)	50	19	19		25	25	
(J)	76	19	19				
(K)							32

PROVIDE SHUT-OFF VALVES ON ALL SERVICES EXCEPT SAN. AND ORAL VAC. AT EACH SERVICE PANEL.

NOTES

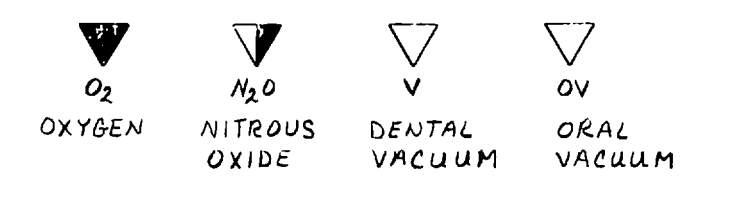
- 4-5 Kg DRY CHEMICAL EXTINGUISHER (N.I.C.)
- 9-0 Kg DRY CHEMICAL EXTINGUISHER (N.I.C.)
- DISCONNECT AND REMOVE EXISTING LAV. & PIPING
- DISCONNECT AND REMOVE EXISTING SINK AND CAP-OFF SERVICES
- DRAIN AND CW SUPPLIED FROM EXISTING DW. HW FROM EXIST. MAIN TO EXIST. SINK - PIPING UNDER RAISED FLOOR
- 50 EXPOSED VENT. UP TO 3000 ACROSS TO COLUMN CHROME PLATED
- UPGRADE AND MODIFY EXISTING PIPING TO DUF/W UNITS, REFER TO DRG M-36
- VENT TO BE RUN INSIDE PARTITION BUT IS SHOWN OUTSIDE ONLY FOR CLARIFICATION
- DISCONNECT & REMOVE EXIST. D.U. AND SERVICES
- DISCONNECT & REMOVE EXIST. SERVICE PANELS
- 19 NEW SHUT-OFF VALVE & VALVE BOX WITH 19" IN. FROM BELOW TO BELOW MARKED FUTURE
- EXISTING 25 O.D. & 32 N.D. TO REMAIN FROM BELOW
- EXIST. ORAL VAC. TO REMAIN IN SUB-FLOOR
- EXIST. 15 O.D. & 32 N.D. TO EXIST. OUTLETS UNDER RAISED FLOOR
- PNEUMATIC-ELECTRIC SHUT-OFF VALVE - NAT. GAS ONLY



D.U. PIPING CONNECTION

NTS. 1 FLOOR REFER TO DRG M-36

MEDICAL GAS OUTLETS

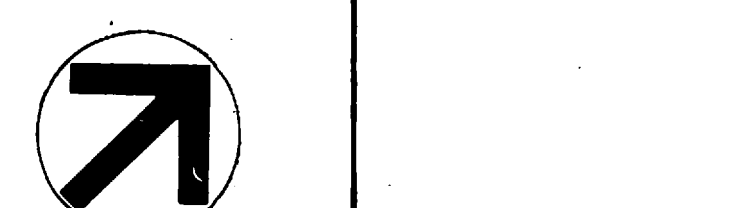
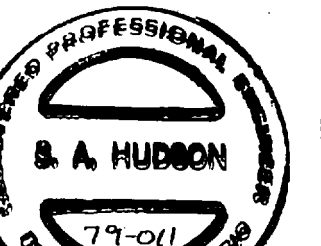


REVISED AS BUILT JUNE 88

1. MAILED FOR TENDER & PERMIT (JUN 1988)

NO REVISION DATE BY

R.P. ALLSOP AND ASSOCIATES (INC.) LTD. Consulting Engineers MARKHAM ONTARIO



ALLWARD & GOUNLOCK ARCHITECTS - PLANNING CONSULTANTS

1127 LESLIE STREET DON MILLS ONTARIO

ADDITONS & ALTERATIONS FACULTY OF DENTISTRY UNIVERSITY OF TORONTO

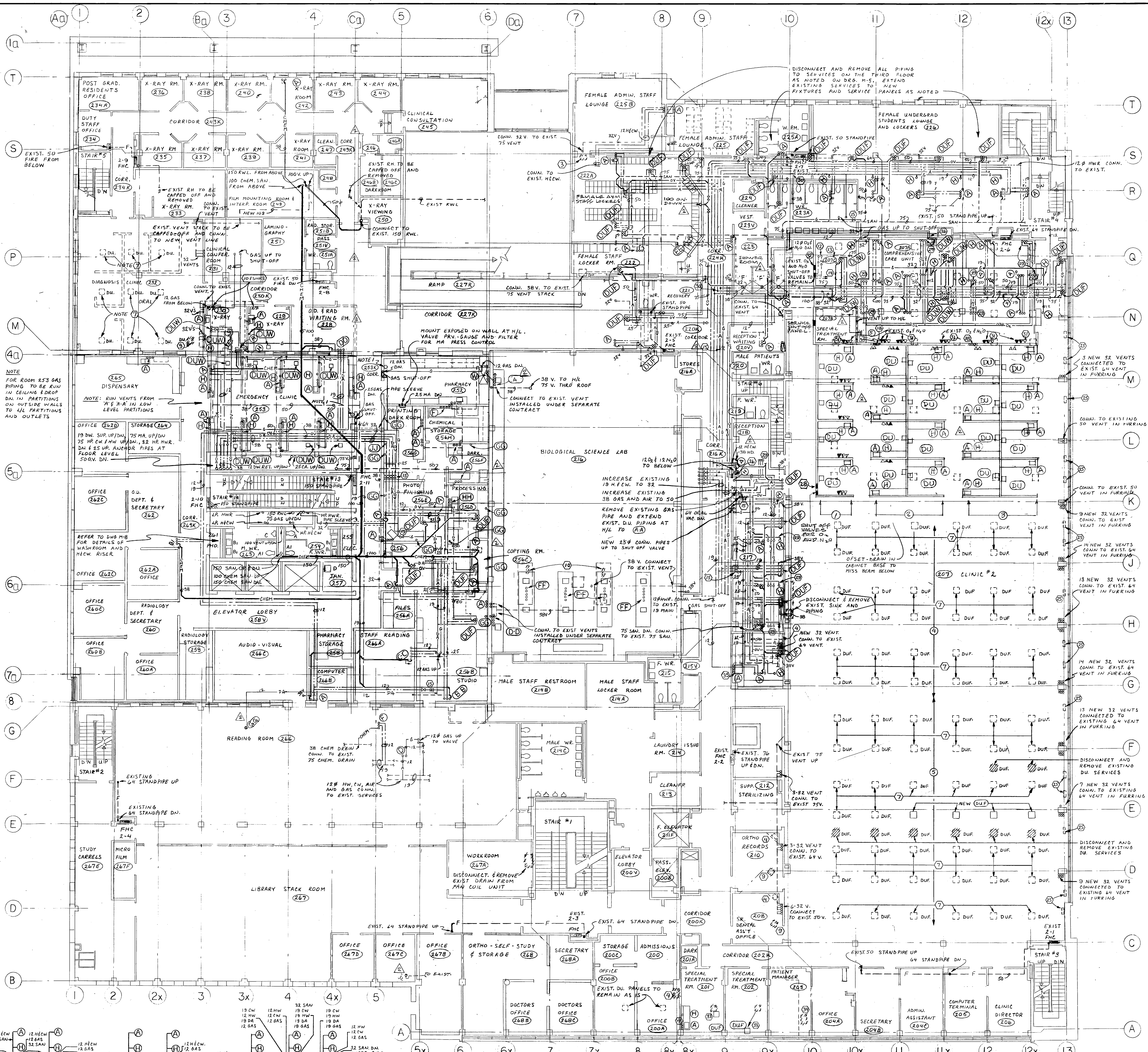
2ND FLOOR PLAN PLUMBING

TITLE W.D. 7781

CHECKED C.F.K. 1:100

DATE AUG. 1988 M-4

CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS



TYPICAL 3 BAY DENTAL SUITE-ROOM 207

TYPICAL 2 BAY DENTAL SUITE-ROOM 207

TYPICAL 6 BAY DENTAL SUITE-ROOM 207

14. DISCONNECT AND RELOCATE EXISTING MED O2 OUTLETS TO NEW LOCATION - EXTEND EXISTING 12" PIPING TO NEW LOCATION

15. EXIST. SERVICE PANEL

16. 12" O2/N2O PIPES UP TO SHUT-OFF VALVES

17. SAN TRAPS BELOW FLOOR

18. SERVICE SHUT-OFF SWITCHES FOR AREAS 1, 2, 3, 4, 5

19. O2 SERVICE OUTLET 25" PIPE DN.

20. O2 SERVICE OUTLET 25" PIPE RUN IN PARTITION TO EAST/WEST PARTITION TO AVOID BEAM BELOW THEN DROP THRO' FLOOR

21. NEW ORAL VAC. OUTLET ADJUSTMENT TO N2O OUTLET. 25" O.V. DN. TO SUB-FLOOR SPACE. CONNECT TO EXISTING O.V. MAIN DRAIN LINE 300MM N. OF WALL

22. NEW LOCAL O2 & N2O ALARM PANEL

23. REMOVE EXIST. DUF. PROVIDE NEW SERVICES TO NEW DUF.

24. DISCONNECT AND REMOVE EXIST. SINK CAP-OFF SERVICES IN WALL AND BELOW FLOOR

25. DISCONNECT EXIST. SINK AND RELOCATE SERVICES TO SUIT NEW 'A' SERVICE LOCATION

SERVICE PANELS

TYPE	SAN	CW	HW	DW	DA	G	OV
A	38	12	12	—	—	—	—
B	76	12	12	—	19	19	—
C	76	12	12	12	19	19	—
D	—	—	—	—	12	12	—
E	76	12	12	12	—	—	—
F	76	12	12	12	—	—	—
G	76	19	19	12	—	—	—
H	—	—	—	—	12	—	—
I	76	12	12	—	12	12	—
J	76	19	19	12	19	19	—
K	76	12	—	—	19	19	—
L	76	19	19	19	19	19	—
M	76	12	—	—	12	—	—
N	76	19	19	12	—	19	—
O	76	19	19	12	12	19	—
P	76	19	19	19	—	—	—
Q	76	12	—	—	12	—	—
R	76	19	19	12	12	19	—
S	76	12	12	12	19	—	—
T	76	19	19	—	25	25	—
U	76	19	19	19	—	12	—
V	76	12	12	12	—	25	—
W	76	12	12	—	12	12	—
X	76	12	12	12	12	12	—
Y	76	12	—	—	12	—	—
Z	76	12	—	—	12	—	—
AA	38	12	—	—	12	—	32
BB	38	19	12	—	12	12	—
CC	76	12	12	—	—	—	—
DD	38	19	19	—	12	12	—
EE	—	—	—	—	19	19	—
FF	—	—	—	—	12	—	—

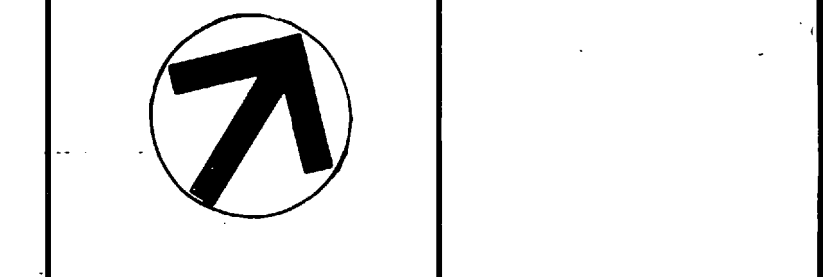
- PROVIDE SHUT-OFF VALVES ON ALL SERVICES EXCEPT SAN & OV AT EACH SERVICE PANEL.
DUP. & FLOOR MOUNTED DENTAL UNIT DUV. & WALL MOUNTED DENTAL UNIT
- NOTES
- 45KG DRY CHEMICAL EXTINGUISHER (NIC)
 - 9.0KG DRY CHEMICAL EXTINGUISHER (NIC)
 - DISCONNECT, REMOVE AND CAP-OFF EXISTING PIPING BELOW FLOOR OR IN WALL
 - DISCONNECT AND REMOVE EXIST. SERVICES, 12 CM, 12 AIR, 12 GAS AND 318 SAN.
 - DISCONNECT AND REMOVE 12 CM, 12 HW, 12 GAS & 318 SAN.
 - DISCONNECT AND REMOVE 12 CM, 12 HW, 12 GAS & 318 SAN.
 - DISCONNECT AND REMOVE EXIST. AIR & GAS
 - MEDICAL GAS OUTLETS, OV, O₂, N₂O
 - MEDICAL GAS SHUT-OFF VALVES FOR O₂ & N₂O, 12" O₂ & N₂O PIPES FROM BELOW AND TO BELOW
 - MEDICAL GAS LOCAL ALARM FOR O₂ & N₂O
 - PROVIDE AND INSTALL 50# HD. UNDER COUNTER, CONNECT TO ADJACENT DRAIN, AND PRIME TRAP FROM SINK WATER SUPPLY

REVISED AS-BUILT JUNE 83
ISSUED FOR TENDER PERMIT AUGUST 82

NO. REVISION DATE BY

R.P. ALLSOP AND ASSOCIATES (INC.) LTD.
Consulting Engineers
MARKHAM ONTARIO

S.A. HUDSON
79-01
PROPOSED BY OFFICE



ALLWARD & GOUINLOCK
ARCHITECTS - PLANNING CONSULTANTS

1127 LESLIE STREET DON MILLS ONTARIO

ADDITIONS & ALTERATIONS
FACULTY OF DENTISTRY
UNIVERSITY OF TORONTO

PROJECT
3RD FLOOR PLAN
PLUMBING

TITLE

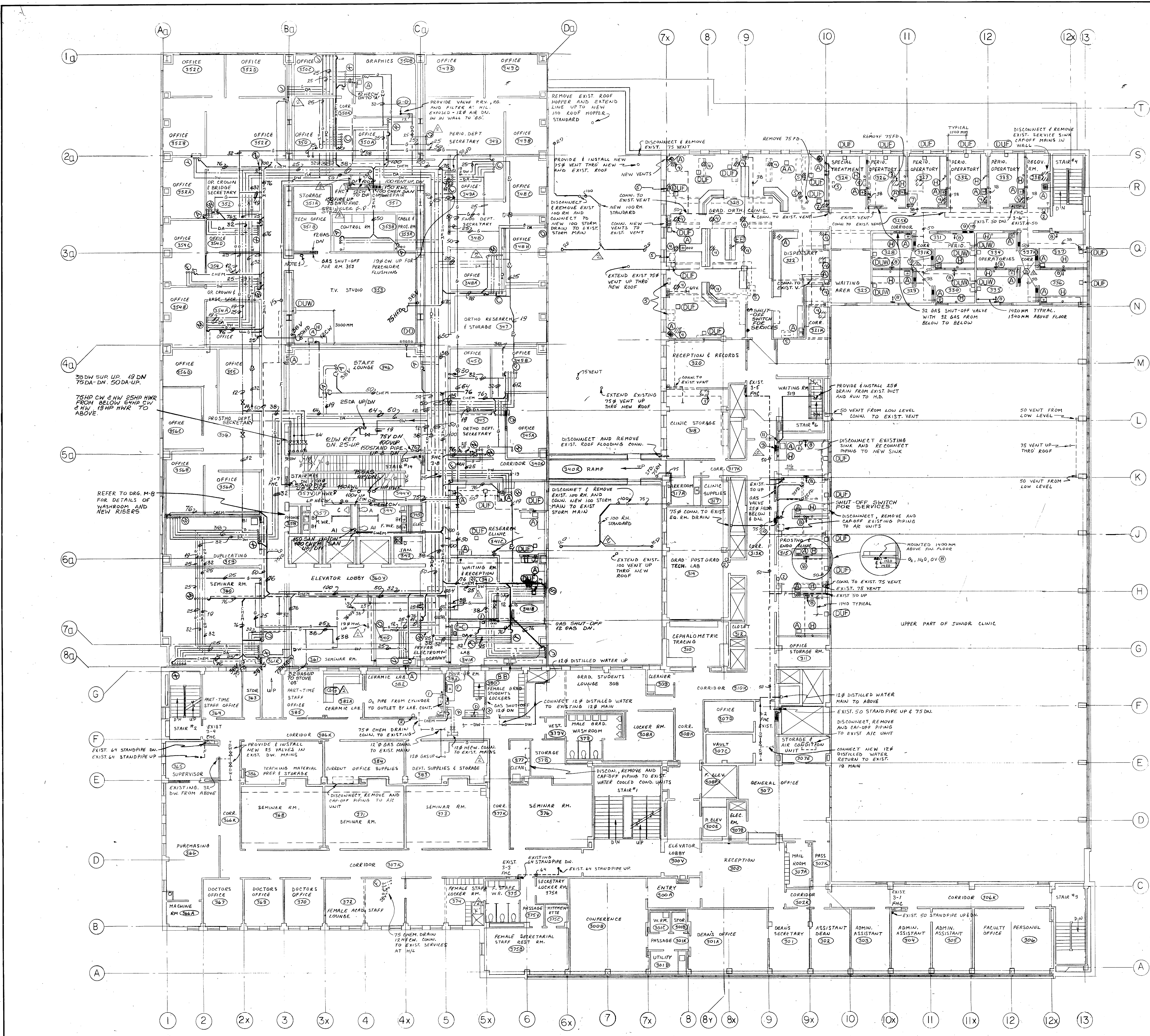
DRAWN W.D. 7781

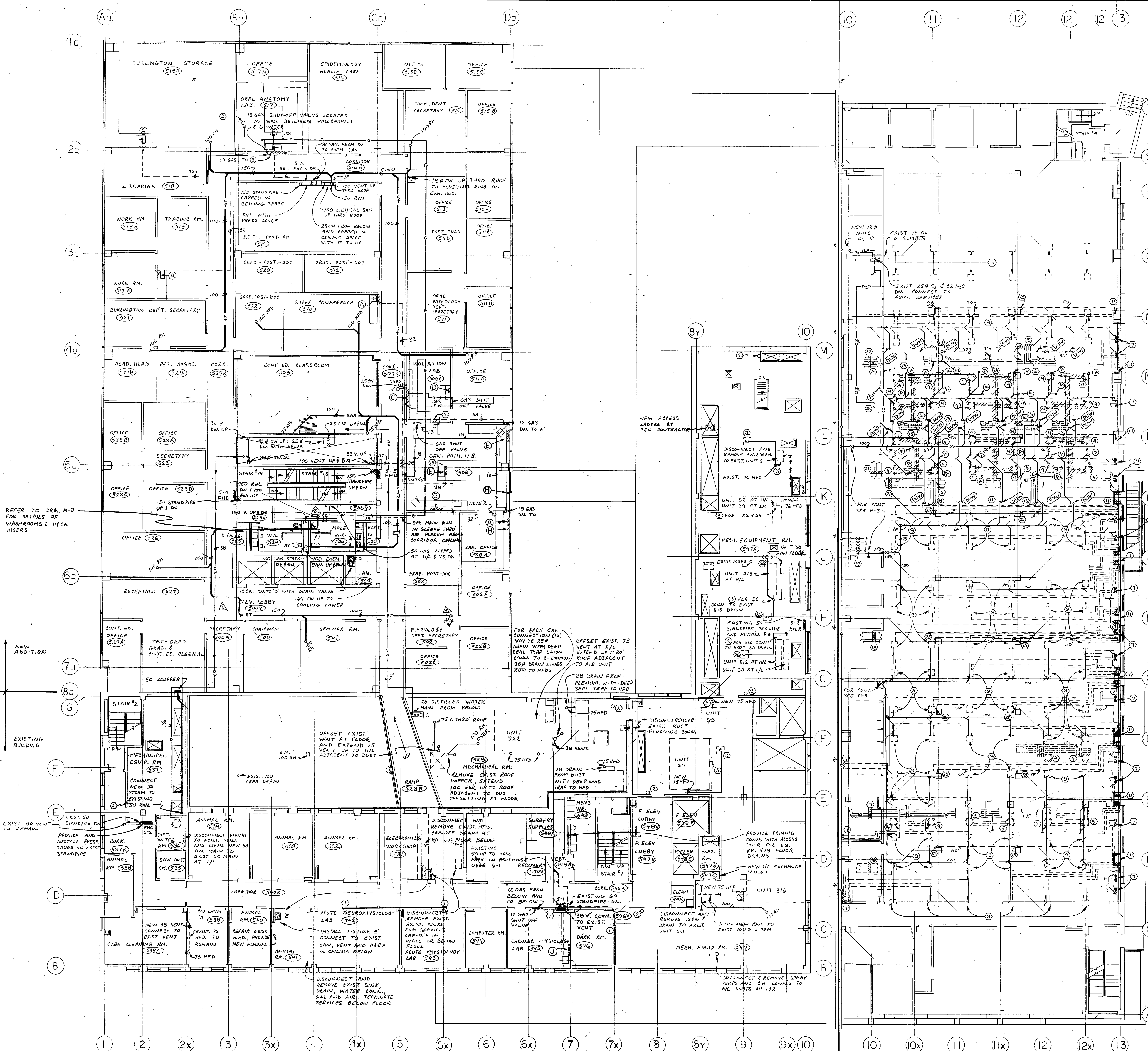
CHECKED R.P. 1:100

SCALE

DATE AUG. 19/82. M-5

CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS





METRIC

ALL DIMENSIONS IN METERS UNLESS OTHERWISE NOTED

FLOOR SERVICE PANELS									
TYPE	SAN	CW	HW	DW	DA	G	OV		
A	38	12	12	—	—	—	—	—	—
B	76	12	12	—	19	19	—	—	—
C	76	12	12	12	19	19	—	—	—
D	—	—	—	—	—	12	12	—	—
E	76	12	12	12	—	—	—	—	—
F	76	12	12	12	—	—	—	—	—
G	76	19	19	12	—	—	—	—	—
H	—	—	—	—	—	—	12	—	—
J	76	12	12	—	—	12	12	—	—
K	32	12	—	—	—	—	—	—	32

NOTE: PROVIDE SHUT-OFF VALVES FOR ALL SERVICES EXCEPT SAN AT EACH SERVICE PANEL

NOTES

- 1 - 4-1/2" DRY CHEMICAL EXTINGUISHER (N.I.C.)
- 2 - 9-8 kg DRY CHEMICAL EXTINGUISHER (N.I.C.)
- 3 - 38 # DRAIN FROM UNIT WITH DEEP SEAL TRAP TO HFD
- 4 - DISCONNECT AND REMOVE EXISTING D.U. SEALS AND CAP AT MAINS
- 5 - DISCONNECT EXISTING DRAIN & SERVICES AND CONNECT TO NEW D.U.'S
- 6 - CONNECT NEW SERVICES TO EXISTING PIPING
- 7 - ADD NEW VENT TO EXISTING SERVICE PANEL DRAIN
- 8 - EXISTING PIPING TO REMAIN AS IS
- 9 - CONNECT NEW 32 VENT AND 32 ORAL V.P. TO EXISTING D.U. DISCONNECT & REMOVE BAS PIPING BACK TO MAINS
- 10 - EYE WASH ON COUNTER BY LAB CONTRACTOR
- 11 - 32 # SO VENTS TO ABOVE
- 12 - 19 H.W. 19 DA 6 19 GAS UP (ON DRG M-4)
- 13 - 32 SAN, 25 CW, 19 HW, 19 DA 6 19 GAS (ON DRG M-4) REPLACE CW MAIN 4000 MM WEST TO OBTAIN CORRECT SIZE OF MAIN
- 14 - 32 SAN, 25 CW, 25 HW, 25 DA 6 19 GAS (ON DRG M-4) REPLACE MAIN 4000 MM WEST ON CW, H.W. 25 TO OBTAIN CORRECT SIZE OF MAIN
- 15 - 25 H.W. 25 DA 6 19 GAS (ON DRG M-4) INSTALL IN EXIST. MAINS AUTO. SHUT-OFF VALVES. 19 HW, 19 HW 25 CW, 25 DA 6 25 GAS (AREA 5 DRG M-4) INSTALL IN EXIST. MAINS AUTO. SHUT-OFF VALVES. 25 HW, 25 HW 38 CW, 30 DA 6 30 GAS (AREA 5 DRG M-4) INSTALL IN EXISTING MAINS AUTO. SHUT-OFF VALVES. 38 G. 38 DA. 38 CW. 25 HW 6 19 HW (AREA 4 DRG M-4) INSTALL IN EXISTING MAINS AUTO. SHUT-OFF VALVES. 32 G. 32 DA. 32 CW. 19 HW 6 19 HW (AREA 2 DRG M-4) INSTALL IN EXIST. MAINS AUTO. SHUT-OFF VALVES. 32 G. 32 DA. 32 CW. 19 HW 6 19 HW (AREA 2 DRG M-4) INSTALL IN EXIST. MAINS AUTO. SHUT-OFF VALVES. 32 G. 32 DA. 32 CW. 19 HW 6 19 HW (AREA 2 DRG M-4) 19 N.O. CAPPED FOR FUTURE
- 16 - 25 VENT FROM ABOVE
- 17 - 50 VENT FROM LOW LEVEL
- 18 - 25 DRAIN FROM DUCT TO HFD

REVISED AS RESULT: JUNE 25 '84

ISSUED FOR TENDER - PERMIT JULY 25 '84

NO. REVISION DATE BY

R.P. ALLSOP AND ASSOCIATES (1977) LTD. Consulting Engineers MARKHAM ONTARIO

A. HUDSON PROFESSIONAL ENGINEER

ALLWARD & GOINLOCK ARCHITECTS - PLANNING CONSULTANTS

1127 LESLIE STREET DON MILLS ONTARIO

ADDITIONS & ALTERATIONS

FACULTY OF DENTISTRY

UNIVERSITY OF TORONTO

1ST & 5TH FLOOR PLAN

PLUMBING

DRAWN: W.D. 7781

CHECKED: S.F.K.

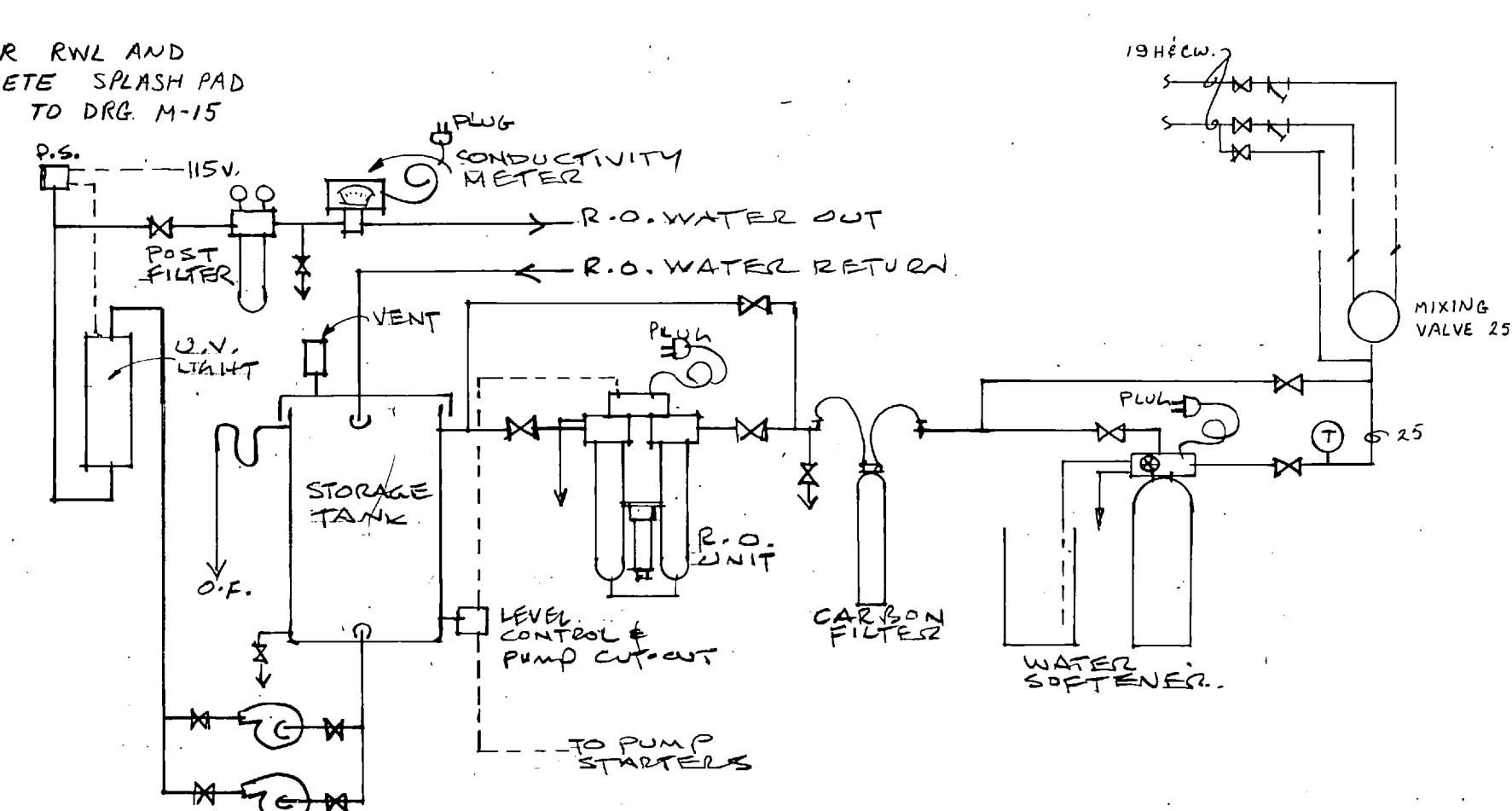
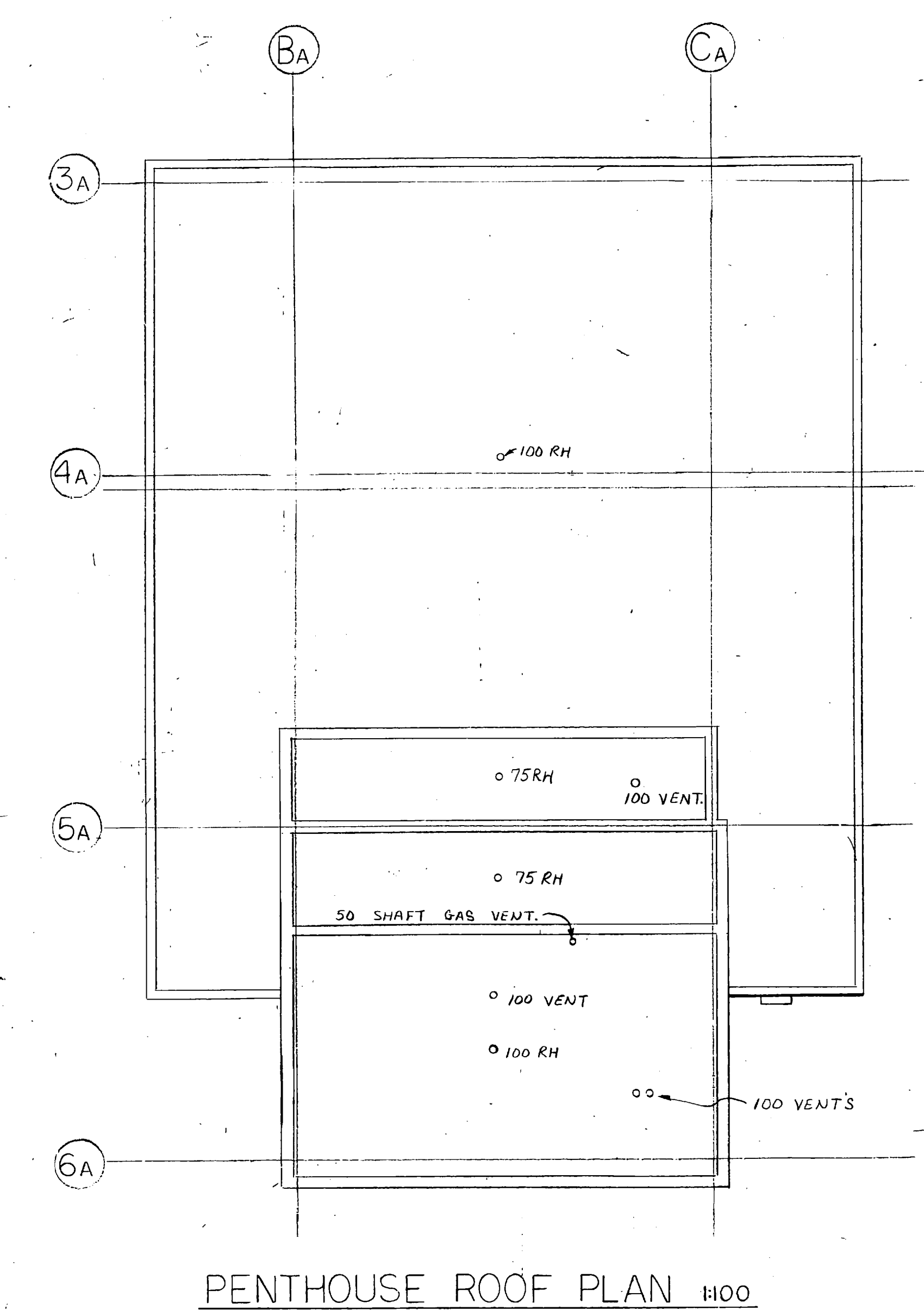
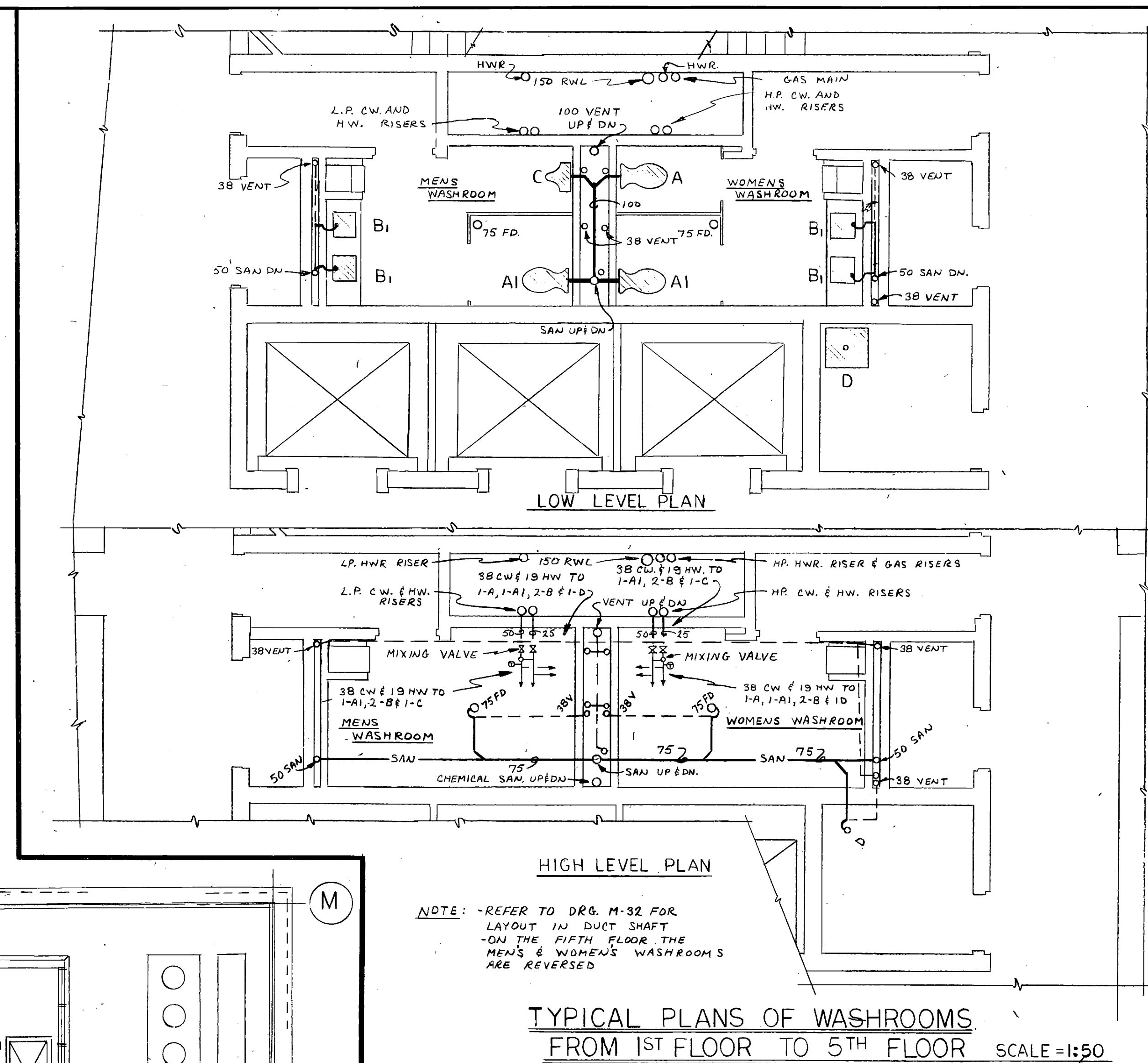
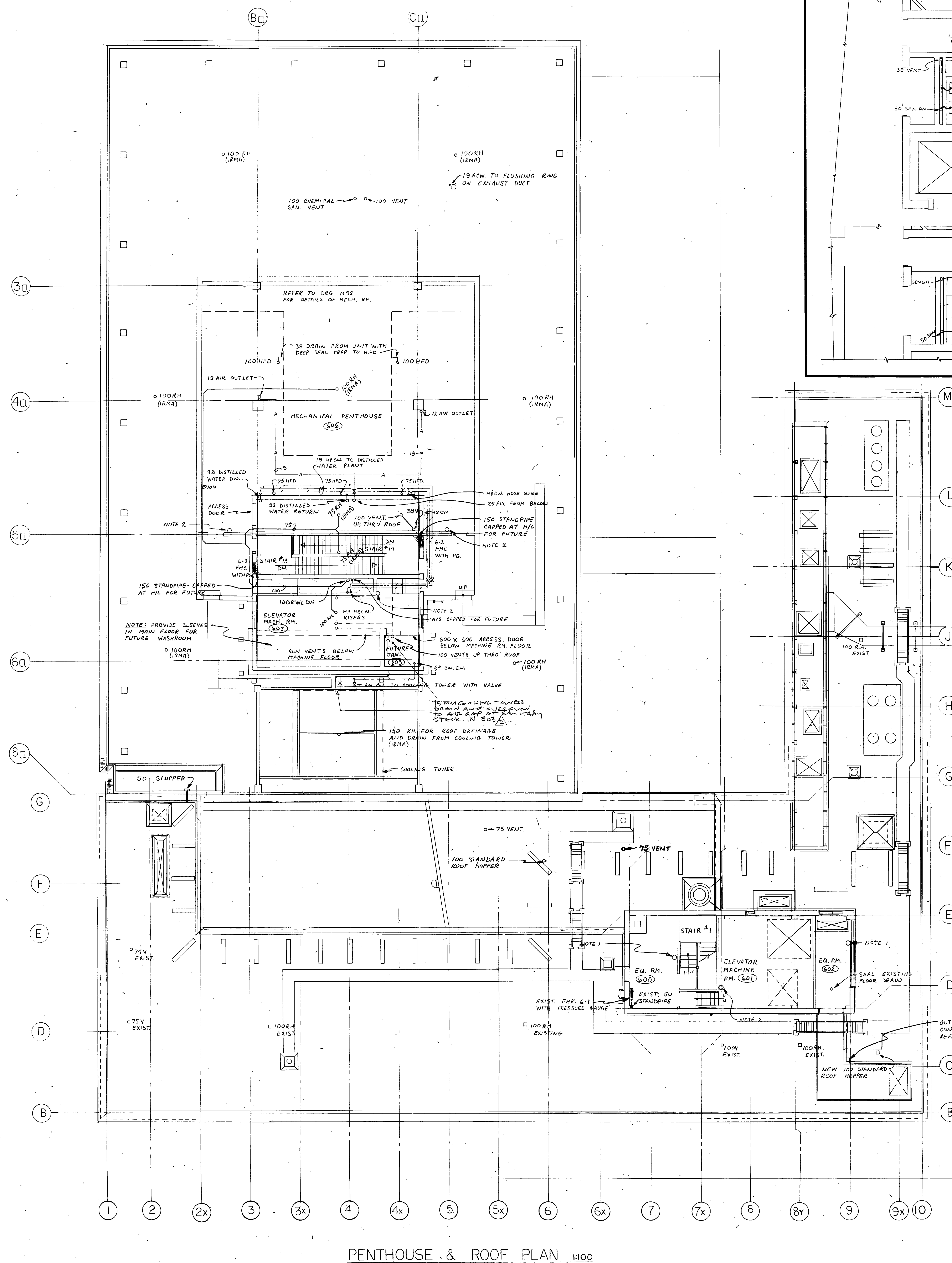
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DATE: AUG. 19/82 M-7

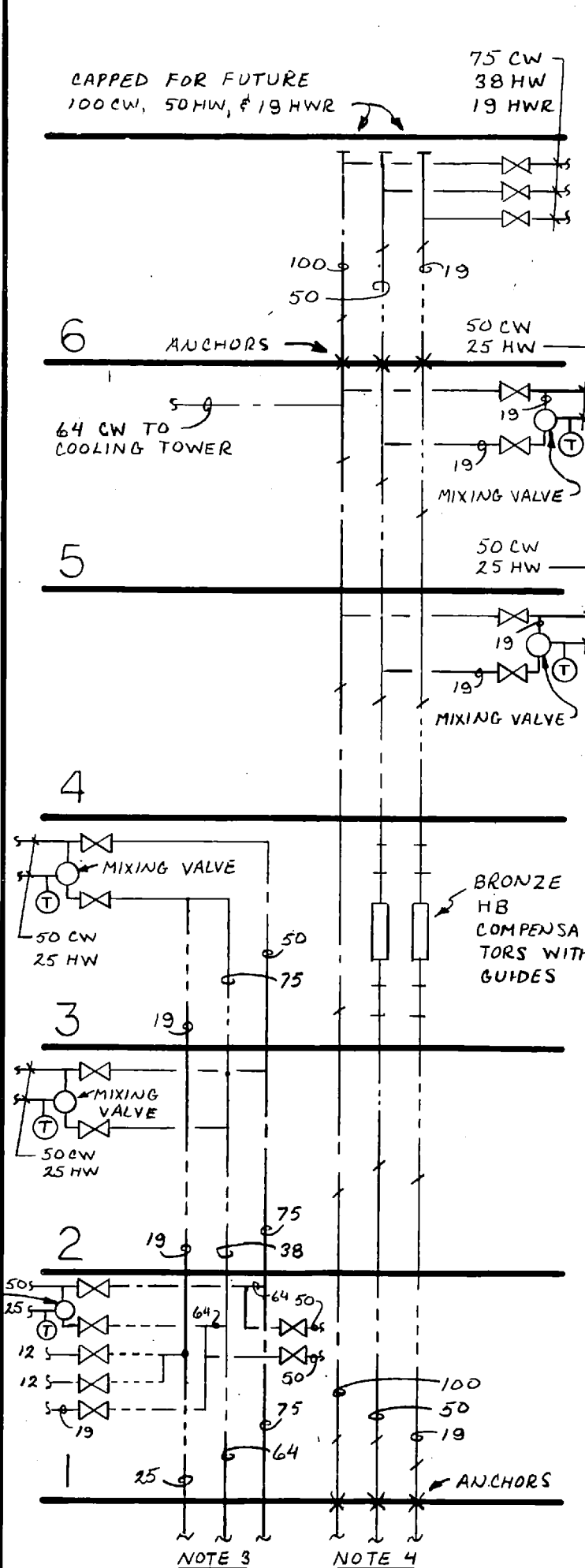
CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS

FIFTH FLOOR PLAN

PART FIRST FLOOR HIGH LEVEL PLAN



METRIC all dimensions unless otherwise noted are in millimeters



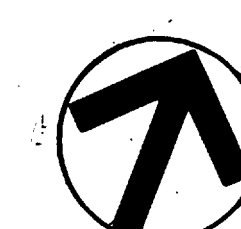
WASHROOM PIPING
RISER N.T.S. NOTE 5

- NOTES
1. 4.5 Kg DRY CHEMICAL EXTINGUISHER (N.I.C.)
 2. 9.0 Kg DRY CHEMICAL EXTINGUISHER (N.I.C.)
 3. LP.HW.É.W. RISER SERVES WASHROOMS UP TO AND INCLUDING 8RD. FLOOR
 4. HP. CW.É.HW. RISER SERVES WASHROOMS ON FOURTH FLOOR AND ABOVE
 5. SHUT-OFF VALVES ON MAINS FOR FIXTURES TO BE LOCATED ON SAME FLOOR AS FIXTURES

2	REVISED AS BUILT	JUNE 85	SK
1	ISSUED FOR PERMIT + TENDER	AUG. 19.82	

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Consulting Engineers
MARKHAM, ONTARIO

S. A. HUDSON
79-911



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1127 LESLIE STREET • DON MILLS ONTARIO

W27 LESLIE STREET DON MILLS ONTARIO
ADDITIONS & ALTERATIONS
FACULTY OF DENTISTRY
UNIVERSITY OF TORONTO
PROJECT
ROOF & PENTH. FLOOR PLAN
PLUMBING
TITLE

TITLE		PROJECT	
DRAWN	W.D.	COMM	7781
CHECKED	CRK		
SCALE	AS NOTED		
DATE	AUG. 19/82.		
CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS		DWG NO	M-8

METRIC

ROOM	WALL-FIN SCHEDULE
WATTS	LENGTH (mm) CONNS (mm)
3055	3355 15
1292	1222 15
435	435 15

NOTES

1. ALL WALL-FIN UNITS SHALL BE TYPE SG (337MM) UNLESS OTHERWISE NOTED.
2. ELEMENT ONLY WHERE REQUIRED INDICATED (E.O.) ON DWG.
3. ALL CAPACITIES BASED ON TYPE SG 337MM HIGH CABINET SINGLE ROW. 1.00 WATTS/MM.
4. DISCONNECT AND REMOVE EXISTING SNOW MELTING CONVERTOR, PIPING AND PUMP CAP-OFF MAINS AT H/L.
5. DISCONNECT STEAM AND RETURN PIPING TO H.P. HOT WATER STORAGE TANK.
6. EXISTING COND. REC. AND PUMP'S UNIT #1.
7. EXISTING COND. REC. AND PUMP'S UNIT #2.
8. DISCONNECT AND REMOVE EXISTING SNOW MELTING PIPING AND CAP-OFF PIPE.

LEGEND

- HOT WATER HEATING SUPPLY
- HOT WATER HEATING RETURN
- CONTROL VALVE
- ① NEW THERMOSTAT
- ② EXISTING THERMOSTAT
- VR-16 VELOCITY REGULATOR SEE VENTILATION DRAWINGS
- EXISTING RADIATION
- NEW WALL-FIN
- NEW CABINET HEATER

GENERAL NOTE

12" SNOW MELTING PIPING TO BE LOCATED IN CONCRETE RAMP ABOVE REINFORCING AND 64 MM FROM TOP OF SLAB TO BOTTOM OF PIPE.

REVISED AS BUILT JUNE 85 SH
1. PREPARED FOR TENDER & PERMIT AUG 1982

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MARKHAM ONTARIO

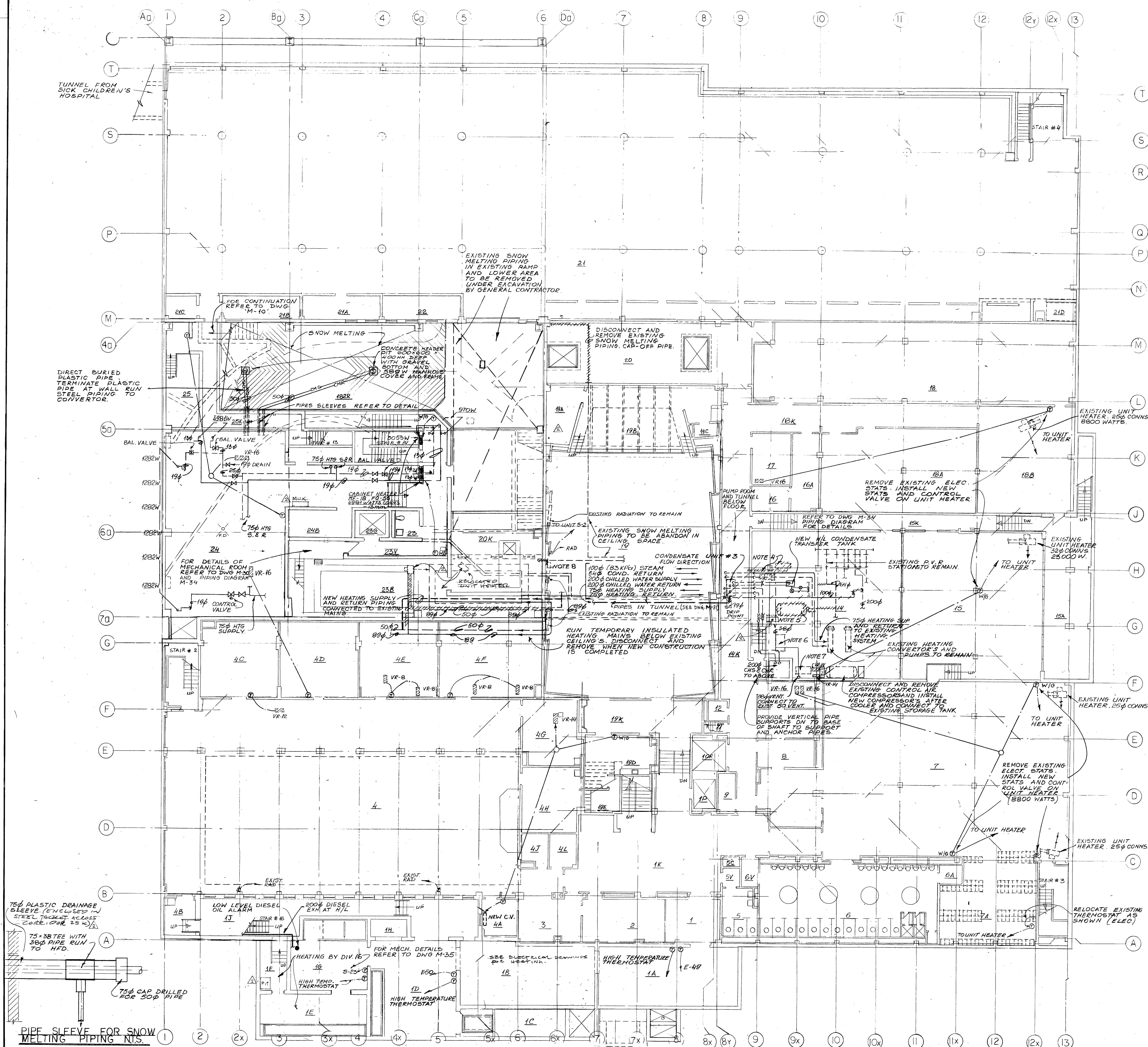


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1127 LESLIE STREET DON MILLS ONTARIO
ADDITIONS & ALTERATIONS
FACULTY OF DENTISTRY
UNIVERSITY OF TORONTO
BASEMENT FLOOR PLAN
HEATING

DRAWN SG 7781
CHECKED CRK
SCALE 1:100
DATE AUG 1982
CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS

M-9



METRIC

ROOM	WALL-FIN SCHEDULE	WATTS	LENGTH (mm)	CONVS (mm)
1282	1322	13		
1692	1930	19		
485	453	13		
970	915	15		
647	610	13		
2586	2440	13		
5920	5490	15		

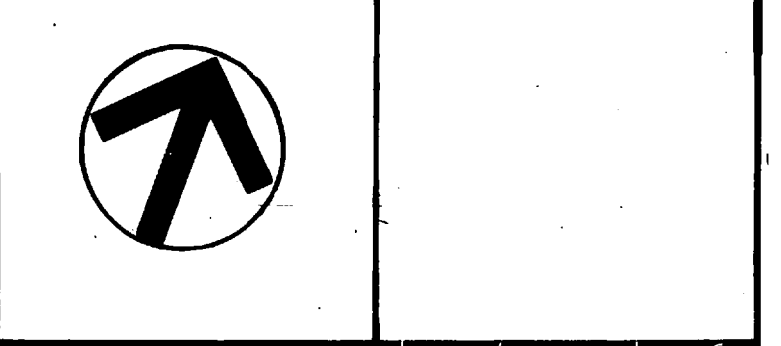
- NOTES
1. WALL-FIN CAPACITIES FOR CAFETERIA ARE TO BE BASED ON STEEL ELEMENT WITH ENCLOSURE TYPE FSTG- 203mm HIGH, CAPACITY - 0.97WATTS/MM.
 2. WALL-FIN UNITS SHALL BE TYPE SG, 337MM HIGH CABINET, SINGLE ROW, 1.06 WATTS/MM.
 3. ELEMENT ONLY WHERE REQUIRED INDICATED (E.O.) ON DWG.
 4. ALL CAPACITIES BASED ON TYPE SG, 337MM HIGH CABINET, SINGLE ROW, 1.06 WATTS/MM.
 5. EXISTING RADIATION TO REMAIN.
 6. FOR CAFETERIA USE 10B ELEMENT WITH SPECIAL COVER.

LEGEND

- HOT WATER HEATING SUPPLY
- HOT WATER HEATING RETURN
- CONTROL VALVE
- ⊙ NEW THERMOSTAT
- ⊙ EXISTING THERMOSTAT
- VR-5 VELOCITY REGULATOR SEE VENTILATION DWG
- NEW WALL-FIN
- NEW CABINET HEATER
- EXISTING RADIATION

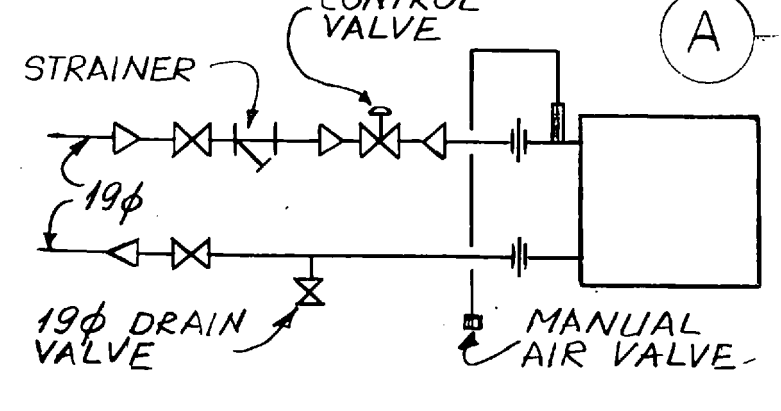
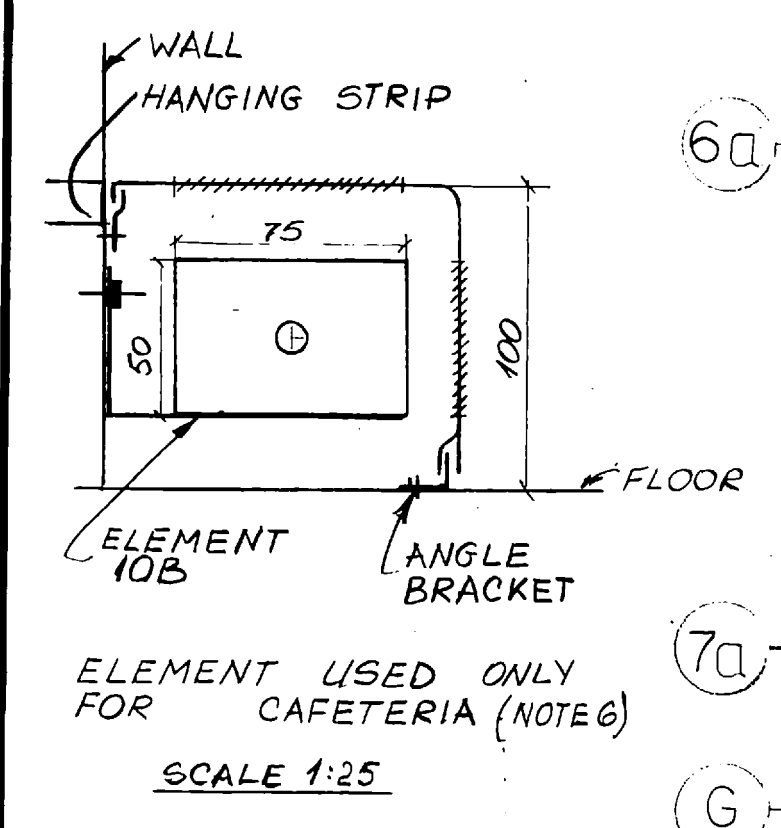
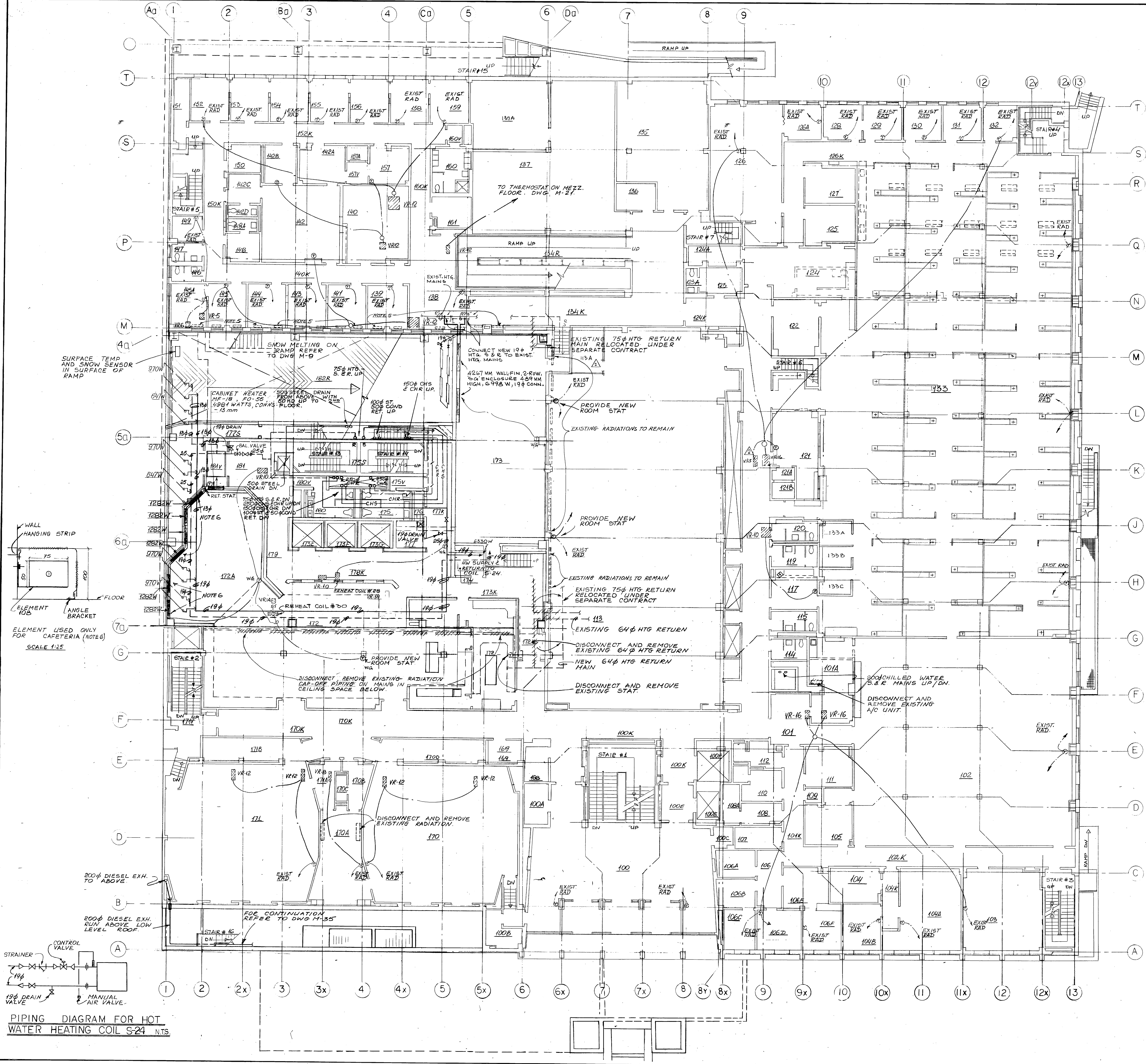
REVISION AS BUILT TIME 25 511
ISSUED FOR PRELIMINARY 13.92

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ADDITIONS & ALTERATIONS
FACULTY OF DENTISTRY
UNIVERSITY OF TORONTO
PROJECT: 1ST FLOOR PLAN
HEATING
TITLE: SG
CHECKED: CKE
SCALE: 1:100
DATE: AUG. 19/82
CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS



PIPING DIAGRAM FOR HOT WATER HEATING COIL S-24 N.T.S.

ROOM	WALL-FIN	SCHEDULE
325	305	13
430	406	13
485	458	13
574	542	13
647	610	13
747	677	13
860	812	13
970	915	13
970.2ROW	458	13
1004	918	13
1148	1084	13
1293	1221	13
1435	1355	13
1720.2ROW	812	13

NOTES

1. WALL-FIN CONNECTIONS AT HIL SERVING FLOOR ABOVE TO BE LOCATED ADJACENT TO OUTSIDE WALL.
2. DISCONNECT AND REMOVE EXIST. RADIATION UNIT & CAP-OFF PIPING AT FL BELOW.
3. DISCONNECT EXIST. RADIATION & CAP-OFF PIPING IN CEILING SPACE OF FL BELOW.
4. ALL WALL-FIN UNITS SHALL BE TYPE SG, UNLESS OTHERWISE NOTED. 1ROW - 327MM HIGH, 2ROW - 489MM HIGH.
5. ELEMENT ONLY WHERE REQUIRED INDICATED (E.O.) ON DWG.
6. ALL CAPACITIES BASED ON SINGLE ROW - 1.06 WATTS/MM TWO ROW - 1.64 WATTS/MM.
7. CONTROL AND SHUT-OFF VALVES FOR E.O. ELEMENTS INSTALLED IN PIPING LOCATED IN CEILING SPACE ON FLOOR BELOW.
8. ALL OTHER SG UNITS TO BE PROVIDED WITH CONTROL AND SHUT-OFF VALVES IN WALL-FIN CABINET.

GENERAL NOTES

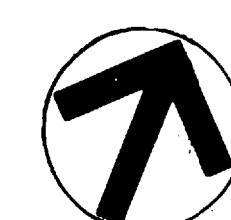
REMOVAL OF PART EXIST. DUCT WORK ARE SHOWN IN THIS DWG. SEE DWG. M-18 FOR REARRANGEMENT OF EXIST. VENTILATION SYSTEMS. CAP OFF OPEN END OF EXIST. DUCT WORK IF NOT SHOWN CONNECTED TO NEW DUCT WORK.

LEGEND

- EXIST. DUCT WORK TO BE REMOVED.
- EXIST. DIFFUSER.
- EXIST. RET. AIR GR. AT CLNG.
- EXIST. RET. AIR GR. AT WALL.
- VELOCITY REGULATOR SEE VENTILATION DWG.
- NEW THERMOSTAT.
- EXISTING THERMOSTAT.
- HOT WATER HEATING SUPPLY.
- HOT WATER HEATING RETURN.
- CONTROL VALVE.
- EXISTING RADIATION.
- NEW WALL-FIN 30KPa (AND BELOW).
- 30KPa (AND BELOW) STEAM MAIN.
- 30KPa (AND BELOW) CONDENSATE RET.
- CHILLED WATER SUPPLY.
- CHILLED WATER RETURN.
- CWS - CONDENSER WATER SUPPLY.
- CNR - CONDENSER WATER RETURN.

NO.	REVISION	DATE	BY
1	ISSUED FOR TENDER & PERMIT	JUN 13/82	

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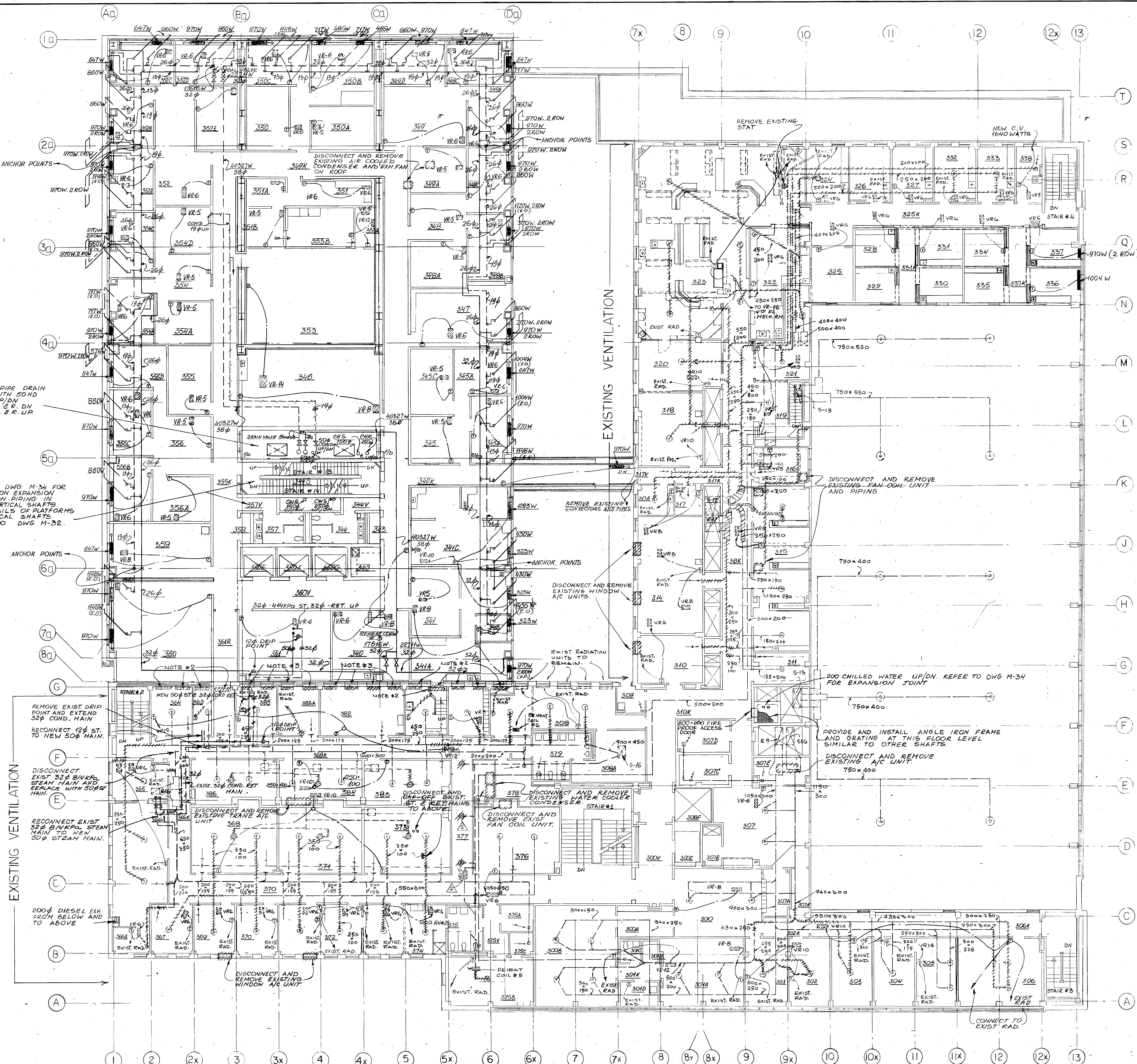
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ADDITIONS & ALTERATIONS
FACULTY OF DENTISTRY
UNIVERSITY OF TORONTO

3RD FLOOR PLAN
HEATING

DRAWN	SG & S.C.	7781
CHECKED	SG	
SCALE	1:100	
DATE	AUG. 19/82	
CONTRACTOR	SHALL CHECK AND VERIFY ALL DIMENSIONS	



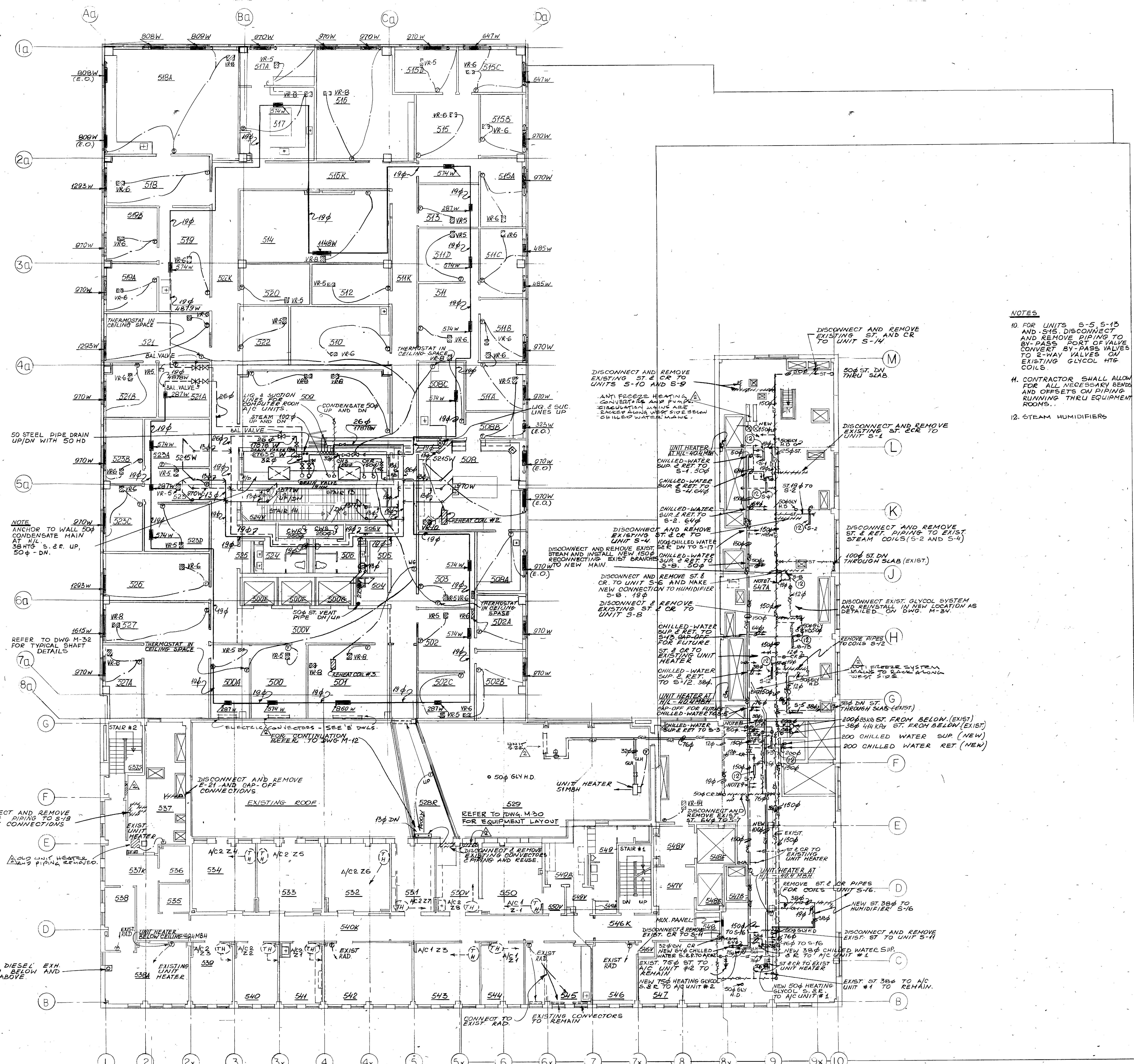
50 STEEL PIPE DRAIN UP/DN WITH 50HD 100 ST. UP/DN 65 HTG S.R. DN 50 HTG S.R. UP

REFER TO DWG. M-34 FOR DETAILS ON EXPANSION JOINTS ON PIPING IN BOTH VERTICAL SHAFTS FOR DETAILS OF PLATFORMS IN VERTICAL SHAFTS REFER TO DWG. M-32.

EXISTING VENTILATION

EXISTING VENTILATION

EXISTING VENTILATION



METRIC

ROOM	WALL	FIN	SCHEDULE
WATTS	LENGTH (mm)	CONNS (mm)	
323	305	13	
485	458	13	
647	610	13	
808	763	13	
970	915	13	
1293	1221	13	
1615	1525	13	

CEILING	WALL	FIN	SCHEDULE
WATTS	LENGTH (mm)	CONNS (mm)	
287	305	13	
574	610	13	
860	915	13	
1148	1220	13	

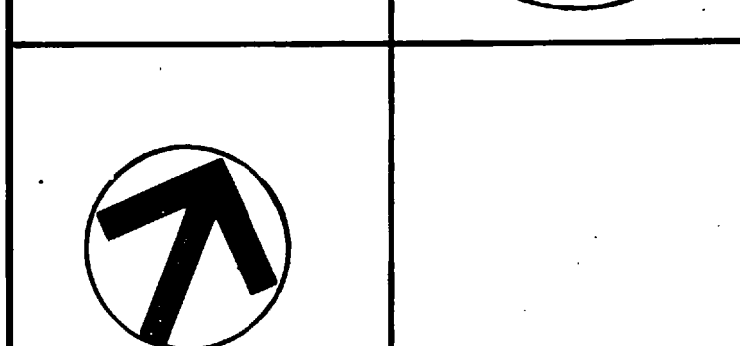
- NOTES
- ALL CEILING WALL-FIN CAPACITIES ARE TO BE BASED ON STEEL BARE ELEMENT CAPACITY OF 0.94 WATTS /mm
 - ALL ROOM WALL-FIN UNITS SHALL BE TYPE 35 UNLESS OTHERWISE NOTED. IRON-35TH HIGH. BRONS - 489TH HIGH.
 - ELEMENT ONLY WHERE REQUIRED INDICATED (E.O.) ON DWG.
 - ALL CAPACITIES BASED ON SINGLE ROW-106 WATTS/IN. TWO ROWS - 164 WATTS/IN.
 - CONTROL AND SHUT-OFF VALVES FOR E.O. ELEMENTS INSTALLED IN PIPING LOCATED IN CEILING SPACE ON FLOOR BELOW.
 - ALL OTHER SG UNITS TO BE PROVIDED WITH CONTROL AND SHUT-OFF VALVES IN WALL-FIN CABINET.
 - CONNECT NEW PIPE TO EXISTING PIPE AS SHOWN.
 - GLYCOL SUPPLY AND RETURN TO UNIT S-5 (389P).
 - CHILLED-WATER SUPPLY AND RETURN TO UNIT S-7 (509P).

LEGEND

- HOT WATER HEATING SUPPLY
- HOT WATER HEATING RETURN
- CONTROL VALVE
- NEW THERMOSTAT
- EXISTING THERMOSTAT
- VR-5 VELOCITY REGULATOR SEE VENTILATION DWG
- EXISTING RADIATION
- NEW WALL-FIN
- CHS - CHILLED WATER SUPPLY
- CHR - CHILLED WATER RETURN
- CWS - CONDENSER WATER SUPPLY
- CWR - CONDENSER WATER RETURN
- BSK (AND BELOW) STEAM MAIN
- BSK (AND BELOW) CONDENSATE RET.
- EXISTING BSK STEAM MAIN
- ST - EXISTING 414KPa STEAM MAIN
- GH - ANTI-FREEZE HEATING SUPPLY
- GR - ANTI-FREEZE HEATING RETURN

REVISED AS SHOWN BY 11/98 FOR TUBER + PERMIT. AKA. 87

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ADDITIONS & ALTERATIONS FACULTY OF DENTISTRY UNIVERSITY OF TORONTO

5TH FLOOR HEATING

SG 7781

1:100

AUG 19/82

M-14

CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS

NOTES

1. CONNECT NEW DUCTWORK TO EXIST. DUCTWORK AS SHOWN.
2. DISCONNECT, REMOVE EXIST. PART OF DUCTWORK WITH DIFFUSER.
3. DISCONNECT & REMOVE PART OF EXIST. DUCTWORK & RECONNECT NEW DUCTWORK AS SHOWN.
4. DISCONNECT, REMOVE EXISTING GRILLE & RECONNECT NEW DUCTWORK WITH EXISTING GRILLE AS SHOWN.
5. DISCONNECT & REMOVE EXISTING PART OF DUCTWORK WITH DIFFUSER. CAP-OFF DUCTWORK & REUSE EXIST. DIFFUSER AS SHOWN.
6. DISCONNECT & REMOVE EXISTING PART OF DUCTWORK WITH GRILLE & RECONNECT NEW DUCTWORK WITH EXISTING GRILLE AS SHOWN.
7. CAP-OFF EXISTING DUCTWORK AS SHOWN.

LEGEND

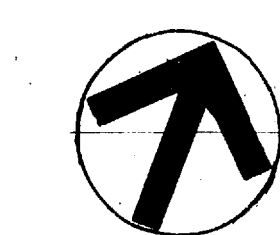
- EXISTING DUCT
- NEW DUCT
- EXISTING DIFFUSER
- NEW DIFFUSER
- EXISTING RETURN GRILLE
- NEW RETURN AIR GRILLES
- VELOCITY REGULATOR WITH ACOUSTIC LINED DUCT WORK
- LUMINAIRE AIR SUPPLY DIFFUSER WITH FLEX DUCT
- LUMINAIRE AIR RETURN
- RETURN AIR GRILLE
- EXISTING DUCTWORK REMOVED

REVISED AS-BUILT JUNE 88 SH

ISSUED FOR THE PROJECT JULY 1982

NO. REVISION DATE BY

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Consulting Engineers
MARKHAM, ONTARIO



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ARCHITECTS - PLANNING CONSULTANTS

1127 LESLIE STREET DON MILLS, ONTARIO
ADDITIONS & ALTERATIONS
FACULTY OF DENTISTRY
UNIVERSITY OF TORONTO

PROJECT: BASEMENT FLOOR PLAN
TITLE: VENTILATION

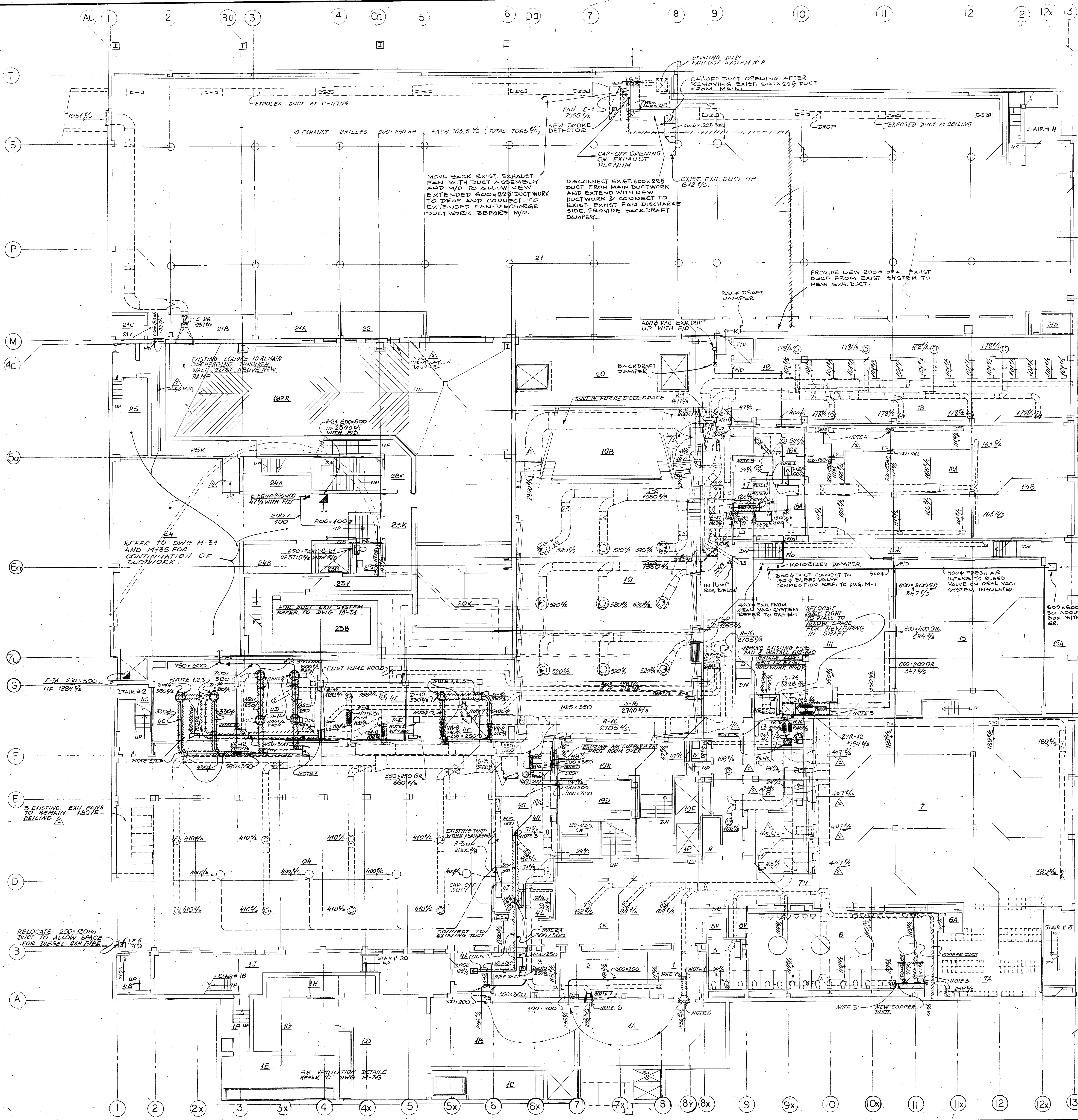
DRAWN: S.G. 7781

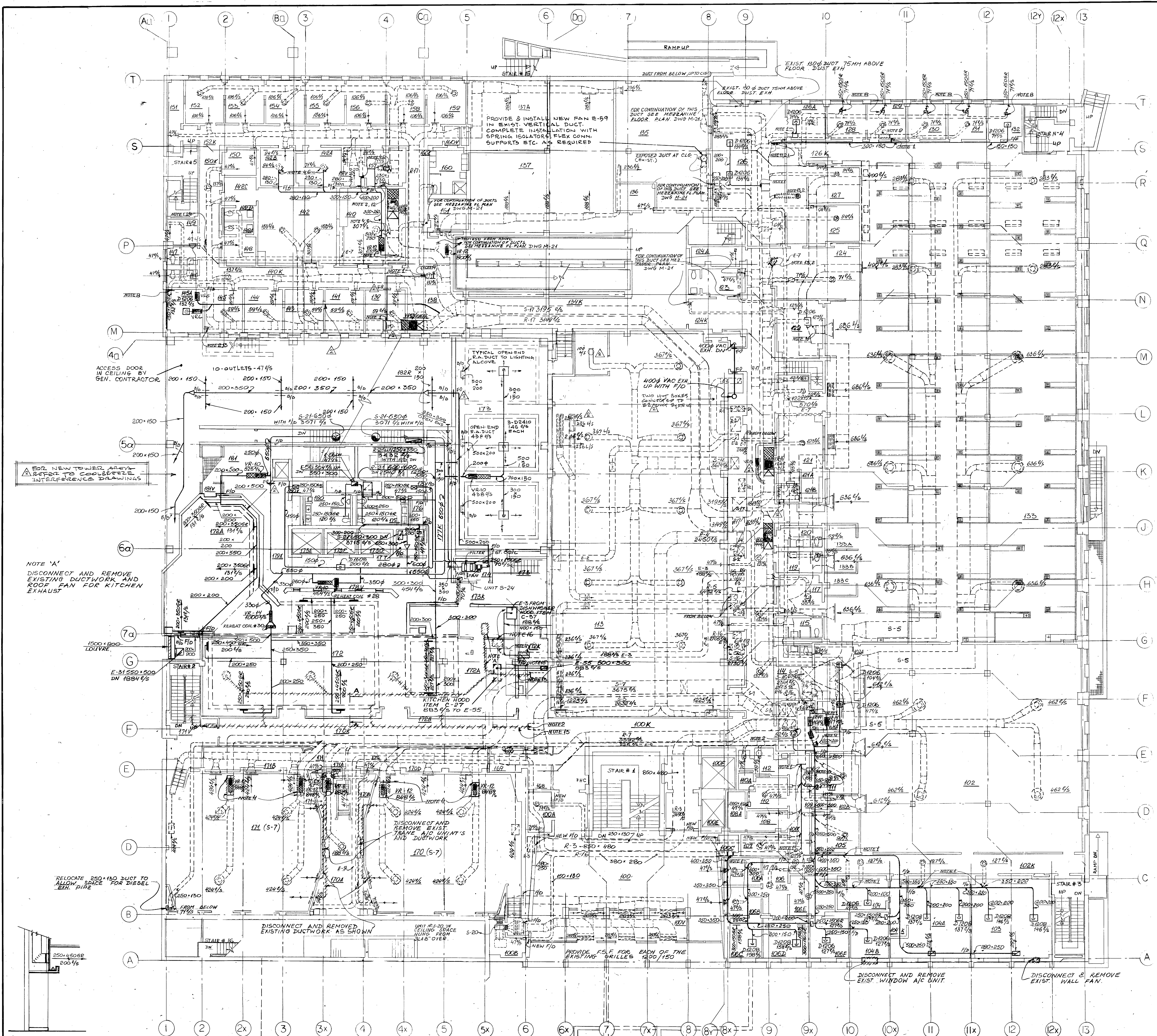
CHECKED: JPK

SCALE: 1"=100'

DATE: AUG 19 1982

CONTRACTOR: SHALL CHECK AND VERIFY ALL DIMENSIONS





METRIC
in English units shown in parentheses where appropriate

NOTES
1. CONNECT NEW DUCT WORK TO EXIST. DUCT WORK AS SHOWN.
2. CAP OFF EXIST. DUCT WORK AS SHOWN.
3. DISCONNECT & REMOVE EXIST. SUP. DIFFUSER & CAP OFF DUCT OPENING.
4. DISCONNECT & REMOVE PART OF EXIST. DUCT WORK & RECONNECT NEW DUCTWORK AS SHOWN.
5. DISCONNECT & REMOVE DUCT FROM BELOW, EXTEND DUCT TO NEW DUCT RISER LOCATION.
6. DISCONNECT, REMOVE EXIST. PART OF DUCTWORK WITH DIFFUSER, CAP OFF DUCT WORK & REUSE EXIST. DIFFUSER AS SHOWN.
7. DISCONNECT, REMOVE EXIST. PART OF DUCTWORK WITH DIFFUSER, CONNECT NEW DUCTWORK & REUSE EXIST. DIFFUSER AS SHOWN.
8. DISCONNECT & REMOVE EXIST. GRILLE & RECONNECT NEW GRILLE AS SHOWN.
9. CAP OFF & REMOVE EXIST. PART OF DUCTWORK WITH GRILLE & REUSE EXIST. GRILLE AS SHOWN.
10. DISCONNECT, REMOVE EXIST. PART OF DUCTWORK WITH GRILLE & REUSE EXIST. GRILLE AS SHOWN.
11. DISCONNECT, REMOVE EXIST. SUP. DIFFUSER & RECONNECT NEW DIFFUSER AS SHOWN.
12. ABANDON DUCT LEAVE IN CEILING SPACE.
13. DISCONNECT, REMOVE EXIST. PART OF DUCTWORK WITH DIFFUSER & REUSE EXIST. DIFFUSER AS SHOWN.
14. DISCONNECT EXIST. PART OF DUCTWORK WITH DIFFUSER, CAP OFF DUCTWORK & REUSE EXIST. DIFFUSER AS SHOWN.
15. FIRE PROOF ENCLOSURE BY GENERAL CONTRACTOR.
16. DISCONNECT AND RELOCATE EXISTING DISH-WASHER HOOD AS SHOWN.

GENERAL NOTE
ALL DUCTWORK PASSING THROUGH ROOM 100 WILL BE ENCLOSED WITH DRYWALL BY GENERAL CONTRACTOR FOR 1 HR FIRE RATING.

LEGEND
--- EXISTING DUCT
--- NEW DUCT
○ EXISTING DIFFUSER
○ NEW DIFFUSER
--- VELOCITY REGULATOR
--- DUCT WORK
--- LUMINAIRE AIR SUPPLY DIFFUSER WITH FLEX. DUCT
--- LUMINAIRE AIR RETURN
--- RETURN AIR GRILLE
--- EXISTING DUCTWORK REMOVED

REVISION	DATE	BY
1	JUNE 28, 84	S.H.
2	AUG 19, 84	S.H.

NO.	REVISION	DATE	BY
1	ISSUED FOR TENDER & PERMIT	AUG 19, 84	S.H.

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ADDITIONS & ALTERATIONS
FACULTY OF DENTISTRY
UNIVERSITY OF TORONTO

PROJECT: 1ST FLOOR PLAN
TITLE: VENTILATION

DRAWN: S.G. 7781
CHECKED: CRK
SCALE: 1:100
DATE: AUG 19, 84
CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS

M-17

SECTION A-A
(TYPICAL LOCATION FOR SUPPLY GRILLES IN CAFETERIA)

METRIC

NOTES

1. CONNECT NEW DUCTWORK TO EXIST. DUCT WORK AS SHOWN.
2. CAP OFF EXIST. DUCT WORK AS SHOWN.
3. DISCONNECT & REMOVE EXIST. SUP. DIFFUSER & CAP OFF DUCT WORK AS SHOWN.
4. DISCONNECT & REMOVE PART OF EXIST. DUCT WORK & RECONNECT NEW DUCT WORK AS SHOWN.
5. DISCONNECT & REMOVE PART OF EXIST. DUCT WORK & RECONNECT NEW DUCT WORK AS SHOWN.
6. DISCONNECT & REMOVE EXIST. PART OF DUCT WORK WITH DIFFUSER & REUSE EXIST. DUCT WORK AS SHOWN.
7. DISCONNECT & REMOVE EXIST. PART OF DUCT WORK WITH DIFFUSER & REUSE EXIST. DUCT WORK AS SHOWN.
8. DISCONNECT & REMOVE EXIST. PART OF DUCT WORK WITH DIFFUSER & REUSE EXIST. DUCT WORK AS SHOWN.
9. CAP OFF & REMOVE EXIST. PART OF DUCT WORK AS SHOWN.
10. DISCONNECT & REMOVE EXIST. PART OF DUCT WORK WITH GRILLE & REUSE EXIST. GRILLE AS SHOWN.
11. DISCONNECT & REMOVE EXIST. SUP. DIFFUSER & RECONNECT NEW DIFFUSER AS SHOWN.
12. DISCONNECT & REMOVE EXIST. PART OF DUCT WORK & REUSE EXIST. DUCT WORK AS SHOWN.
13. DISCONNECT & REMOVE EXIST. PART OF DUCT WORK WITH GRILLE & REUSE EXIST. GRILLE AS SHOWN.
14. DISCONNECT & REMOVE EXIST. PART OF DUCT WORK WITH GRILLE & REUSE EXIST. GRILLE AS SHOWN.
15. DISCONNECT & REMOVE EXIST. PART OF DUCT WORK WITH GRILLE & REUSE EXIST. GRILLE AS SHOWN.
16. FIRE PROOF ENCLOSURE BY GENERAL CONTRACTOR FOR 1 HR. FIRE RATING.
17. DISCONNECT AND REMOVE EXISTING A/C UNIT AND DUCTWORK.

GENERAL NOTE

ALL DUCTWORK PASSING THROUGH ROOM 2005 WILL BE ENCLOSED WITH DRYWALL BY GENERAL CONTRACTOR FOR 1 HR. FIRE RATING.

LEGEND

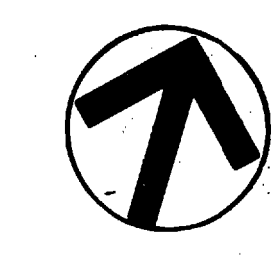
- EXISTING DUCT
- NEW DUCT
- EXISTING DIFFUSER
- NEW DIFFUSER
- VELOCITY REGULATOR WITH ACOUSTIC LINED DUCTWORK
- LUMINAIRE AIR SUPPLY DIFFUSER WITH FLEX DUCT
- LUMINAIRE AIR RETURN
- RETURN AIR GRILLE
- EXISTING DUCT REMOVED

REVISED AS SHOWN JUNE 85 SW

1. HAD FOR TENDER PERMIT NOV. 82

NO. REVISION DATE BY

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ARCHITECTS - PLANNING CONSULTANTS

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ADDITIONS & ALTERATIONS
FACULTY OF DENTISTRY
UNIVERSITY OF TORONTO

2ND FLOOR PLAN

VENTILATION

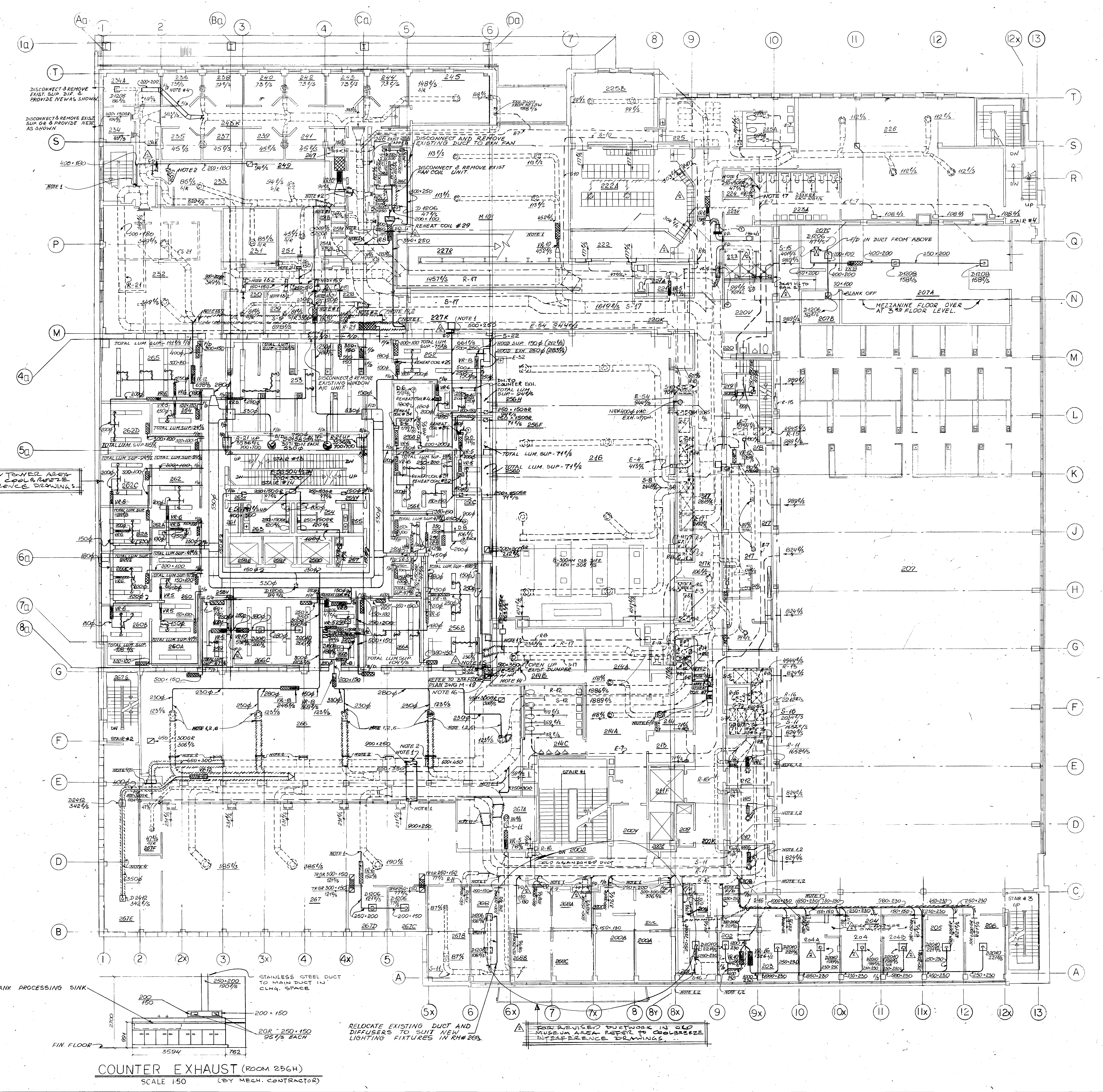
TITLE SG 7781

DRAWN C.R.K. 1:100

CHECKED M-18

DATE AUG 19/82

CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS



COUNTER EXHAUST (ROOM 256H)
SCALE 1:50 (BY MECH. CONTRACTOR)

METRIC

NOTE 6

1. CONNECT NEW DUCT WORK TO EXIST. DUCT WORK AS SHOWN.
2. CAP-OFF EXIST. DUCT WORK AS SHOWN.
3. REUSE EXIST. 175 & 200+ DIFF. FROM RM. NO. 366 & NO. 368.
4. DISCONNECT & REMOVE PART OF EXIST. DUCT WORK & REPLACE WITH VR14 AND NEW DUCT WORK AS SHOWN.
5. REUSE EXIST. 175 & DIFF. FROM RM. NO. 366.
6. CONNECT NEW 750x200 DUCT TO EXIST. 500x350 RISER. DISCONNECT EXIST. RISER FEEDING DOWN IN THE SHAFT.
7. CONNECT NEW 500x300 DUCT TO EXIST. 500x300 RISER. DISCONNECT EXIST. RISER FEEDING DOWN IN THE SHAFT.
8. CONNECT NEW DUCT WORK TO EXIST. RISERS IN THE SHAFT AS SHOWN.
9. DISCONNECT AND REMOVE PART OF EXISTING DUCTWORK AS SHOWN.
10. FIRE PROOF ENCLOSURE BY GENERAL CONTRACTOR.

LEGEND

- RETURN AIR GRILLE
- LUMINAIRE AIR SUPPLY DIFFUSER WITH FLEX DUCT
- EXIST. DUCT
- NEW DUCT
- EXIST. DIFFUSER
- EXIST. DIFF. REUSED
- VELOCITY REGULATOR WITH ACOUSTIC LINED DUCT WORK
- SILENCER WITH DUCTWORK FOR RET. AIR
- NEW DIFFUSER
- LUMINAIRE AIR RETURN COPPER DUCT

GENERAL NOTES

1. REMOVAL OF PART EXISTING DUCT WORK ETC. SEE DWG. M-12
2. LIGHTING FIXTURES NOT USED FOR AIR DISTRIBUTION IN ROOMS SHALL BE PROVIDED WITH BLANK-OFF COVER PLATES OVER SLOTS SUPPLIED BY DIV. 16. INSTALLER BY DIV. 16 IN THE FOLLOWING ROOMS: 352E, 352, 354D, 354, 354A, 355, 356A, 356B, 361, 347, 348A, 348B, 348A, 348, 350, 350A, 353, 346

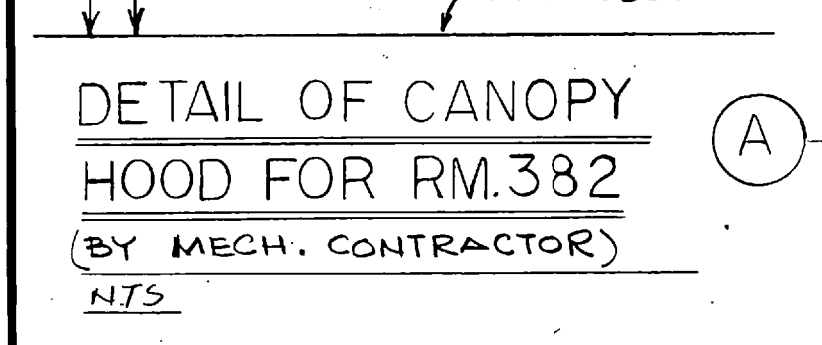
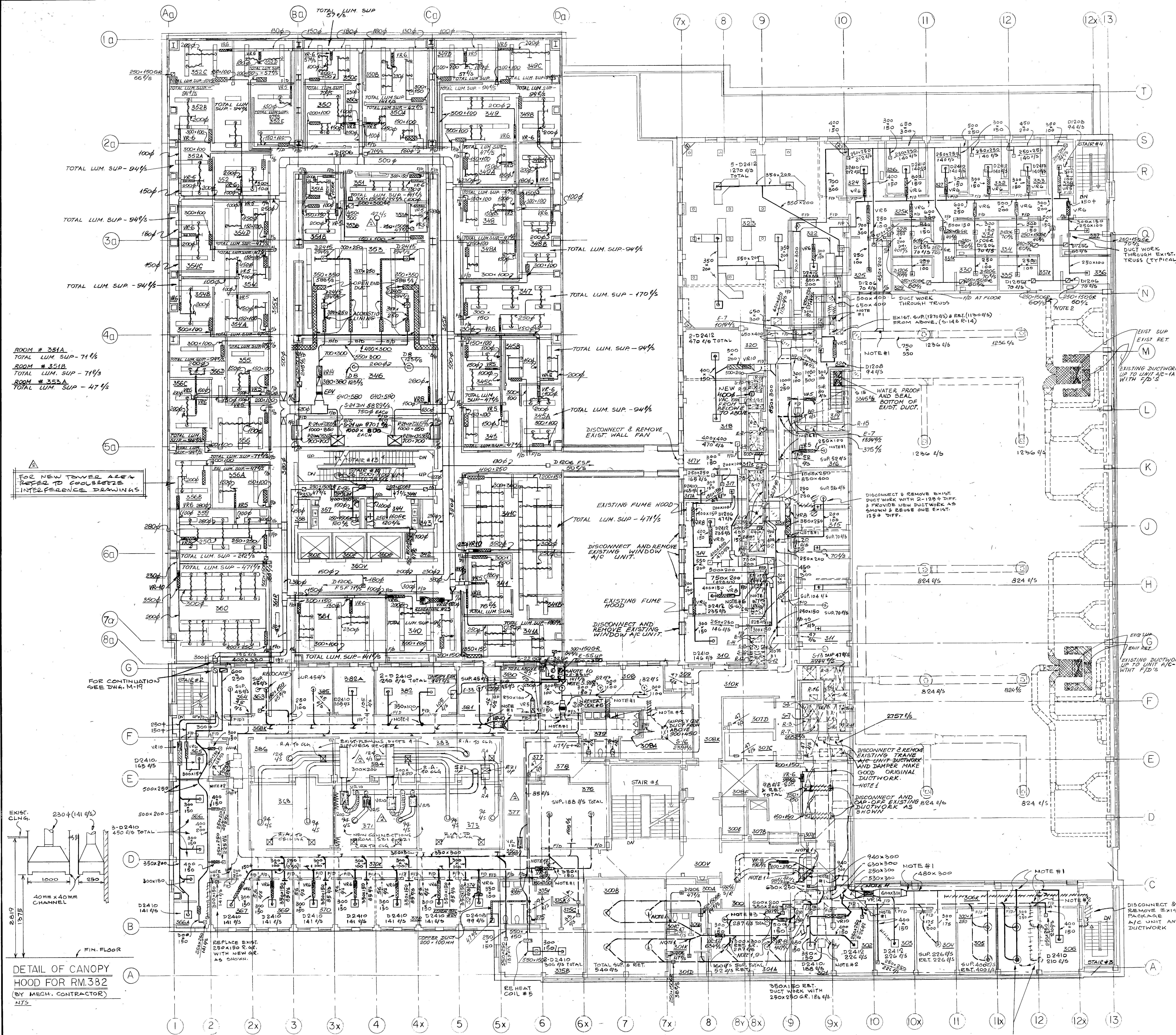
REVISION AS-BUILT JUNE 05 SW
1. HAD FOR TENDER & PERMIT JULY 1982

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Consulting Engineers
MARKHAM, ONTARIO





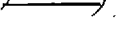









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ARCHITECTS - PLANNING CONSULTANTS

1127 LESLIE STREET DON MILLS, ONTARIO
ADDITIONS & ALTERATIONS
FACULTY OF DENTISTRY
UNIVERSITY OF TORONTO
3RD FLOOR PLAN
VENTILATION
DRAWN: S.G. & S.C.
CHECKED: S.G.
SCALE: 1:100
DATE: AUG. 19/82
M-19
CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS



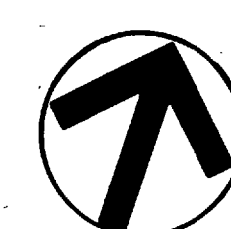
DETAIL OF CANOPY HOOD FOR RM. 382
(BY MECH. CONTRACTOR)
NTS

- LEGEND

-  OR  EXIST. DUCT
 OR  NEW DUCT
 OR  EXIST. DIFFUSER
 NEW DIFFUSER
 VELOCITY REGULATOR
 WITH ACOUSTIC LINED
 DUCT WORK
 SILENCER WITH
 DUCT WORK FOR RET. AIR
 LUMINAIRE AIR
 SUPPLY DIFFUSER
 WITH FLEX DUCT
 LUMINAIRE AIR RETURN
 RETURN AIR GRILLE

2	REVISED AS-BUILT	JUNE 85	5th
1	UNRECORDED AT TULSA	AUG 10 83	

R.P. ALLSOP AND ASSOCIATES (1971) LTD
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MARKHAM ONTARIO



ALLWARD & GOUINLOCK
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ADDITIONS & ALTERATIONS
FACULTY OF DENTISTRY
UNIVERSITY OF TORONTO

4TH. FLOOR PLAN VENTILATION

TITLE **VENTILATION**
DRAWN **S.G. & S.C.** M

DRAWN 0.4.7.0.2 COM 778
CHECKED PK

SCALE 1:100

DATE AUG. 19/82 DWG 11

CONTRACTOR SHALL CHECK AND VERIFY ALL

SCALE 1:50

NOTE 'A' - 50x38 S.S. BUSHING BRAZED TO DUCT WITH 38x19 BUSHING AND 19 S.S. NIPPLE ARRANGE PIPING SO THAT PLASTIC PIPE CAN BE REMOVED.

NOTE 'B' - 19 POLYPROPYLENE PIPE FOR ENTIRE LENGTH OF DUCT WITH 1mm ϕ HOLES AT 150 C.C. ON 45° ANGLE.

NOTE 'C' - AIR & WATER TIGHT ACCESS DOOR.

DETAIL OF PERCHLORIC EXHAUST
FOR ROOM 454A

NT

EXISTING AIR CONDITIONING

EXISTING AIR CONDITIONING

NOTE
NEW R-3 DUCT IS EXISTING
S-3 DUCT CONVERTED TO
RETURN DUCT.

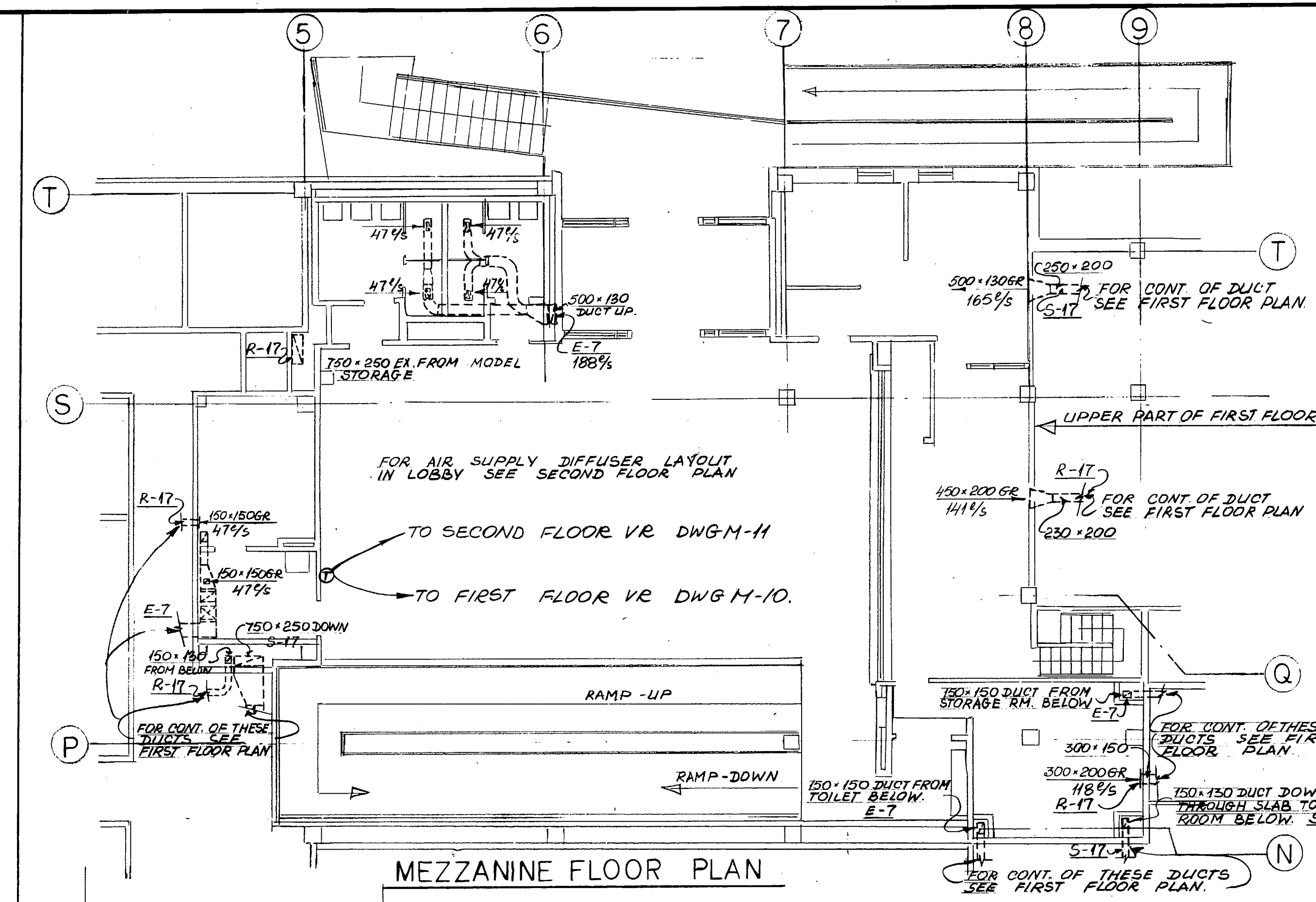
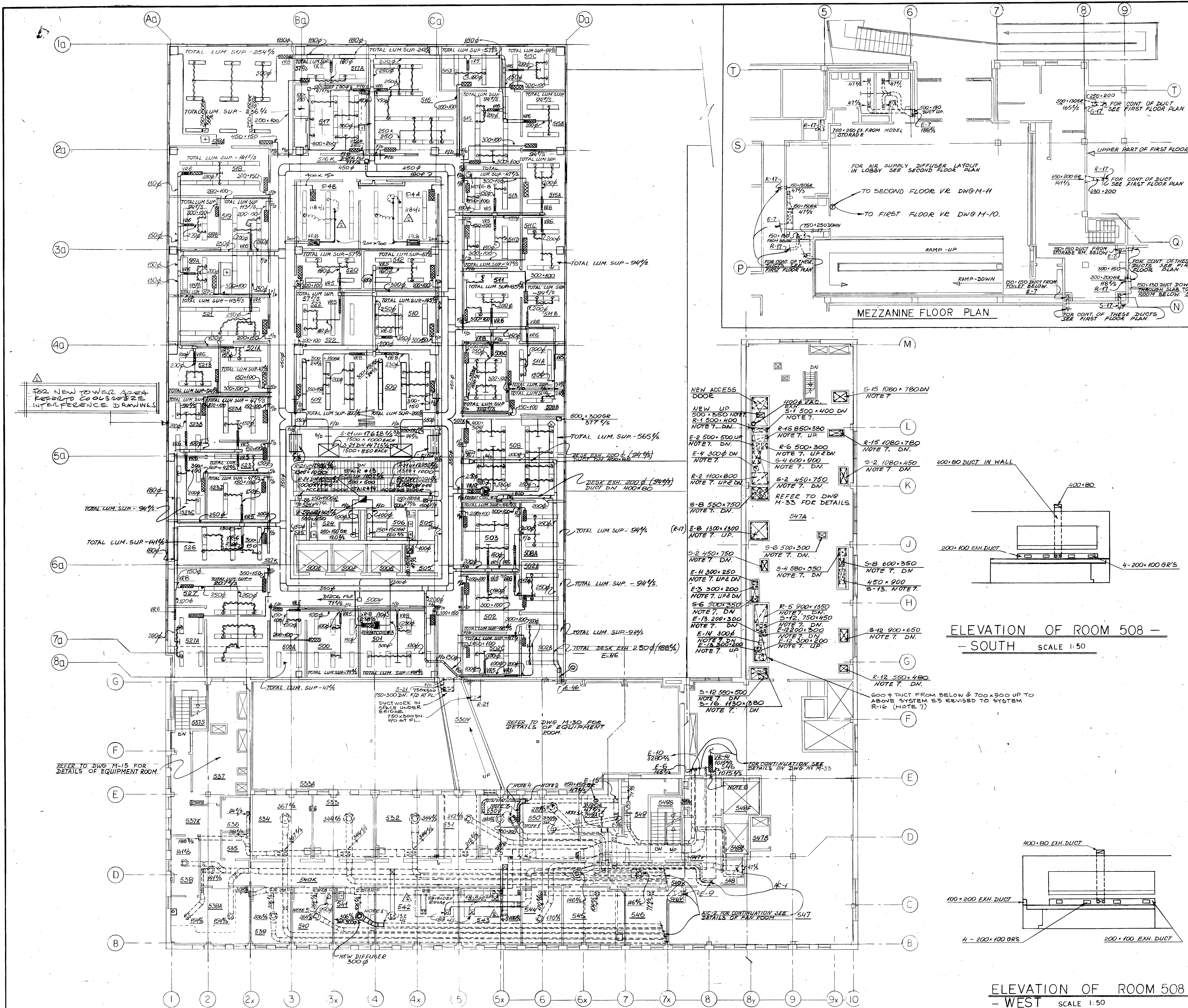
BAFFLE DETAIL N.T.S.

CANOPY EXHAUST RM#459

CANOPY EXHAUST RM#468A

CANOPY EXHAUST RM#468

NOTE
ALL CANOPIES
BY MECH. CONTRACTOR



METRIC All dimensions are in millimeters unless otherwise noted.

NOTES

1. CONNECT NEW DUCT WORK TO EXISTING DUCT WORK AS SHOWN.
2. CAP-OFF EXISTING DUCT WORK AS SHOWN.
3. DISCONNECT & REMOVE EXISTING PART OF DUCT WORK WITH DIFFUSER & RECONNECT NEW DUCT WORK WITH EXISTING DIFFUSER AS SHOWN.
4. DISCONNECT & REMOVE PART OF EXISTING DUCT WORK AS SHOWN.
5. FUME EXHAUST DUCT FROM BELOW 2 UP THROUGH ROOF WITH FID AT FLOOR.
6. DISCONNECT & REMOVE EXISTING PART OF DUCT WORK & RECONNECT NEW DUCT WORK AS SHOWN.
7. PROVIDE FIRE DAMPER IN EACH DUCT AT FLOOR LEVEL. REMOVE SECTION OF DUCT SO THAT FIRE PROOFING OF OPENING CAN BE CARRIED OUT BY THE GENERAL CONTRACTOR. INSTALL DUCTWORK AFTER FIRE PROOFING IS COMPLETED.
8. 2300 EXHAUST DUCT FROM FLOOR BELOW WITH FID AT FL. UP THROUGH ROOF TO EXHAUST FAN E-36 ON ROOF OVER.

LEGEND

- EXISTING DUCT
- NEW DUCT
- EXISTING DIFFUSER
- NEW GRILLE RETURN AIR
- VELOCITY REGULATOR WITH ACOUSTIC LINED DUCT WORK
- LUMINAIRE AIR SUPPLY DIFFUSER WITH FLEX DUCT
- LUMINAIRE AIR RETURN

ELEVATION OF ROOM 508 - SOUTH SCALE 1:50

ELEVATION OF ROOM 508 - WEST SCALE 1:50

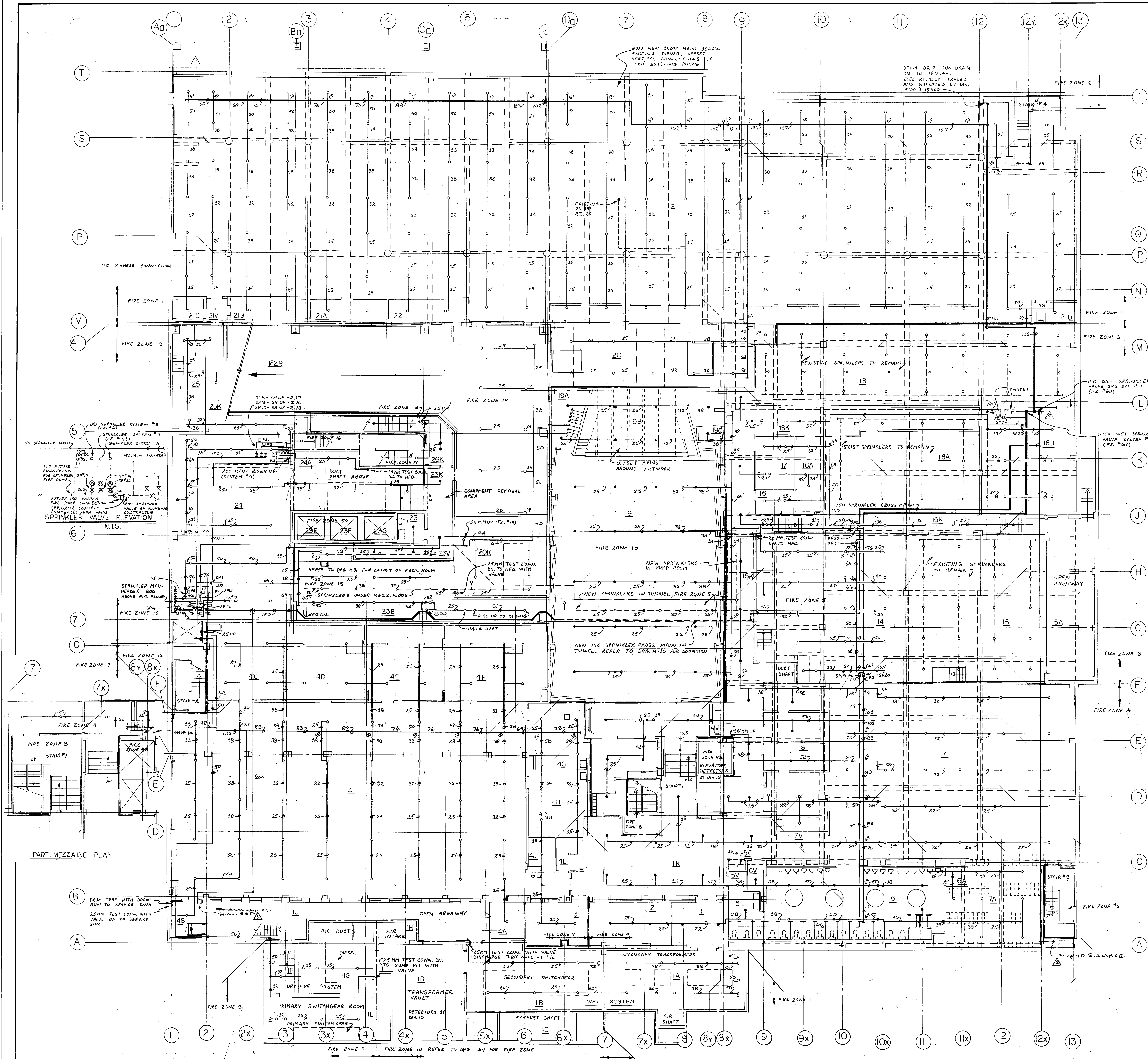
ALLWARD & GOUNLOCK ARCHITECTS - PLANNING CONSULTANTS

1127 LESLIE STREET DON MILLS ONTARIO

ADDITIONS & ALTERATIONS
FACULTY OF DENTISTRY
UNIVERSITY OF TORONTO

5TH FLOOR PLAN
VENTILATION

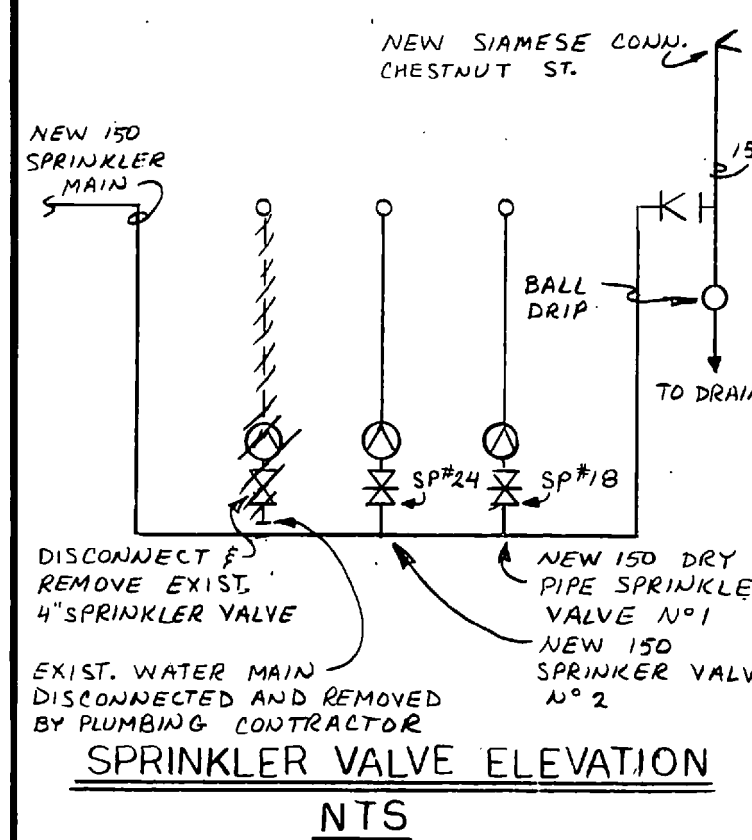
TITLE: S.G. 7781
CHECKED: F.K.
SCALE: 1:100
DATE: AUG. 19/82
CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS



METRIC all dimensions in millimeters unless otherwise noted

- NOTE**
1. MODIFY EXIST. PIPING, MAKE NEW CONNECTIONS TO NEW SPRINKLER VALVE
 2. SP = ELECTRIC SUPERVISED POINT
 3. FS = FLOW SWITCH
 4. STAIRS ARE PROVIDED WITH THERMAL DETECTORS
 5. CONTRACTOR SHALL ALLOW FOR ALL NECESSARY BENDS AND OFFSETS AROUND EXIST. & NEW EQUIPMENT

SPRAY HEADS = \bigcirc = 309
PENDANT HEADS = \bullet = 84
EXISTING HEADS = \bigcirc = 163



REFER TO STAN SMITH SPRINKLER DESIGN SERVICE LIMITED DRAWING SP-1 FOR HYDRAULIC DESIGN IN THIS AREA.

REVISED AS BUILT JUNE 85
1. HAD FOR PERMIT-TENDER NO. 53

NO. REVISION DATE BY
R.P. ALLSOP AND ASSOCIATES (P.L.L.) LTD.
Consulting Engineers
MARKHAM, ONTARIO
S. A. HUDSON
PROFESSIONAL ENGINEER
73-011
PROVINCE OF ONTARIO



ALLWARD & GOUNLOCK
ARCHITECTS - PLANNING CONSULTANTS

1127 LESLIE STREET DON MILLS, ONTARIO
ADDITIONS & ALTERATIONS
FACULTY OF DENTISTRY
UNIVERSITY OF TORONTO
PROJECT
BASEMENT FLOOR PLAN
SPRINKLER
TITLE
DRAWN W.D. 7781
CHECKED J.K. 8/82
SCALE 1:100
DATE AUG. 19/82 M-22
CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS

METRIC

all dimensions
unless otherwise noted
are in millimeters

NOTES

1. ISO RISER UP & DN. SYSTEM #4
2. 64 RISER UP & DN.
3. ALL SPRINKLERS TO BE PENDANT HEADS EXCEPT STAIRS #13 & 14 AND ROOMS 255 & 261 WHICH ARE UPRIGHT SPRAY HEADS

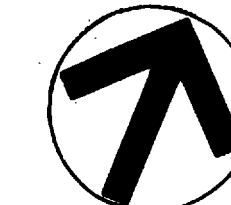
-PENDANT HEADS = 77
-SPRAY HEADS = 6

REFER TO STAN SMITH
SPRINKLER DESIGN SERVICES
LIMITED DRAWING SP-3
FOR HYDRAULIC DESIGN OF
THIS AREA.

REVISED AS BUILT JUNE 05/04
ISSUED FOR PERMIT-TENDER JUNE 15/02

NO. REVISION DATE BY

R.P. ALLSOP AND
ASSOCIATES (INC.) LTD.
Consulting Engineers
MARKHAM ONTARIO



ALLWARD & GOUINLOCK
ARCHITECTS - PLANNING CONSULTANTS

1127 LESLIE STREET DON MILLS, ONTARIO

ADDITIONS & ALTERATIONS
FACULTY OF DENTISTRY
UNIVERSITY OF TORONTO

PROJECT 2ND FLOOR PLAN

TITLE SPRINKLER

DRAWN W.D. 7781

CHECKED J.E.K.

SCALE 1:100

DATE AUG. 19/82 M-24

CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS

METRIC

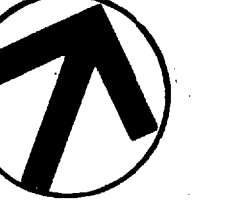
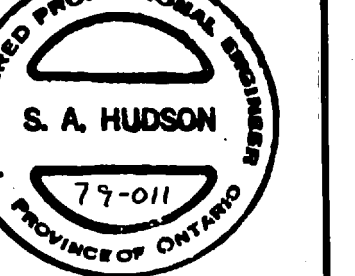
NOTES
1. 150 RISER UP & DN. SYSTEM #4
2. 64 RISER UP & DN.
3. ALL SPRINKLERS TO BE PENDANT
HEAD EXCEPT STAIRS AND ROOMS
444 & 444N WHICH ARE UPRIGHT
SPRAY HEADS

- PENDANT HEADS = 148
- SPRAY HEADS = 6

REFER TO SPAN SMITH
SPRINKLER DESIGN SERVICE
LIMITED DRAWING SP-5 FOR
HYDRAULIC DESIGN OF THE
AREA

REVISED AS BUILT JUNE 87 SW
1 WAIVED FOR PERMIT TENDER JULY 88

R. P. ALLSOP AND
ASSOCIATES (INC.) LTD.
Consulting Engineers
MARKHAM ONTARIO



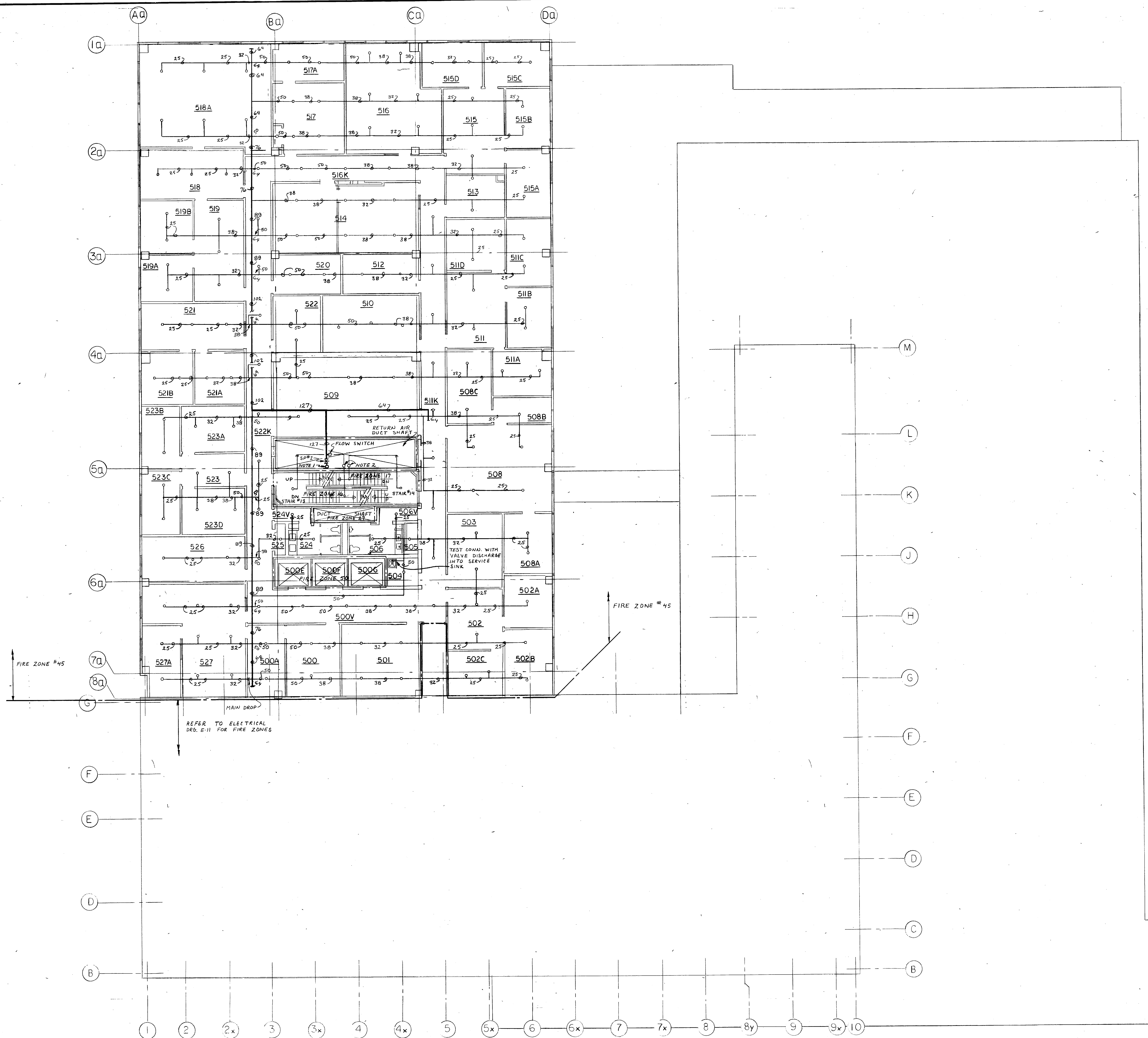
ALLWARD & GOUNLOCK
ARCHITECTS - PLANNING CONSULTANTS

1127 LESLIE STREET DON MILLS ONTARIO
ADDITIONS & ALTERATIONS
FACULTY OF DENTISTRY
UNIVERSITY OF TORONTO
PROJECT
4TH FLOOR PLAN
SPRINKLER
DRAWN W.D. 7781
CHECKED P.K.
SCALE 1:100
DATE Aug 19/82
M-26
CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS

dimensions
as otherwise noted
in millimeters

150 RISER UP & DN. SYSTEM #4
50 RISER UP WITH 64 RISER FROM
BELOW
ALL SPRINKLERS ARE PENDANT
HEAD EXCEPT STAIRS AND ROOM
505 & 525 WHICH ARE UPRIGHT
SPRAY HEADS

PENDANT HEAD = 159
SPRAY HEAD = 6

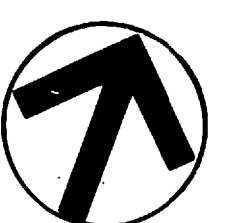


REF. TO STAN SMITH
SPRINKLER DESIGN SERVICE
LIMITED DRAWING SP-G FOR
HYDRAULIC DESIGN OF THIS
AREA

2	REVISED AS BUILT JUNE 85 SH
1	ISSUED FOR PERMIT + TENDER AUG 19 83

NO	REVISION	DATE	BY
----	----------	------	----

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1127 LESLIE STREET · DON MILLS ONTARIO

ADDITIONS & ALTERATIONS
FACULTY OF DENTISTRY
UNIVERSITY OF TORONTO

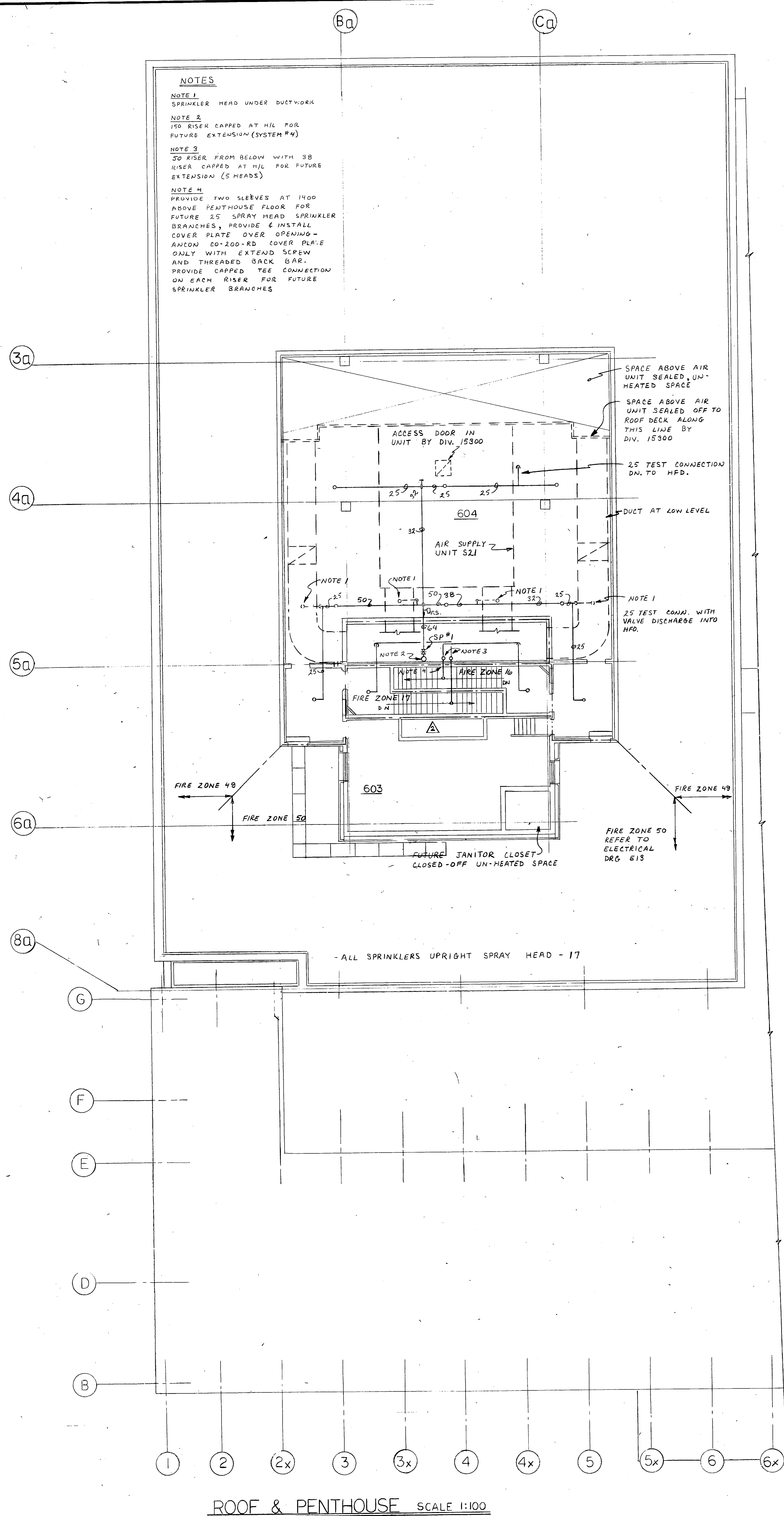
PROJECT: 5TH. FLOOR PLAN
TITLE: SPRINKLER

DRAWN W. D. COMM 7781

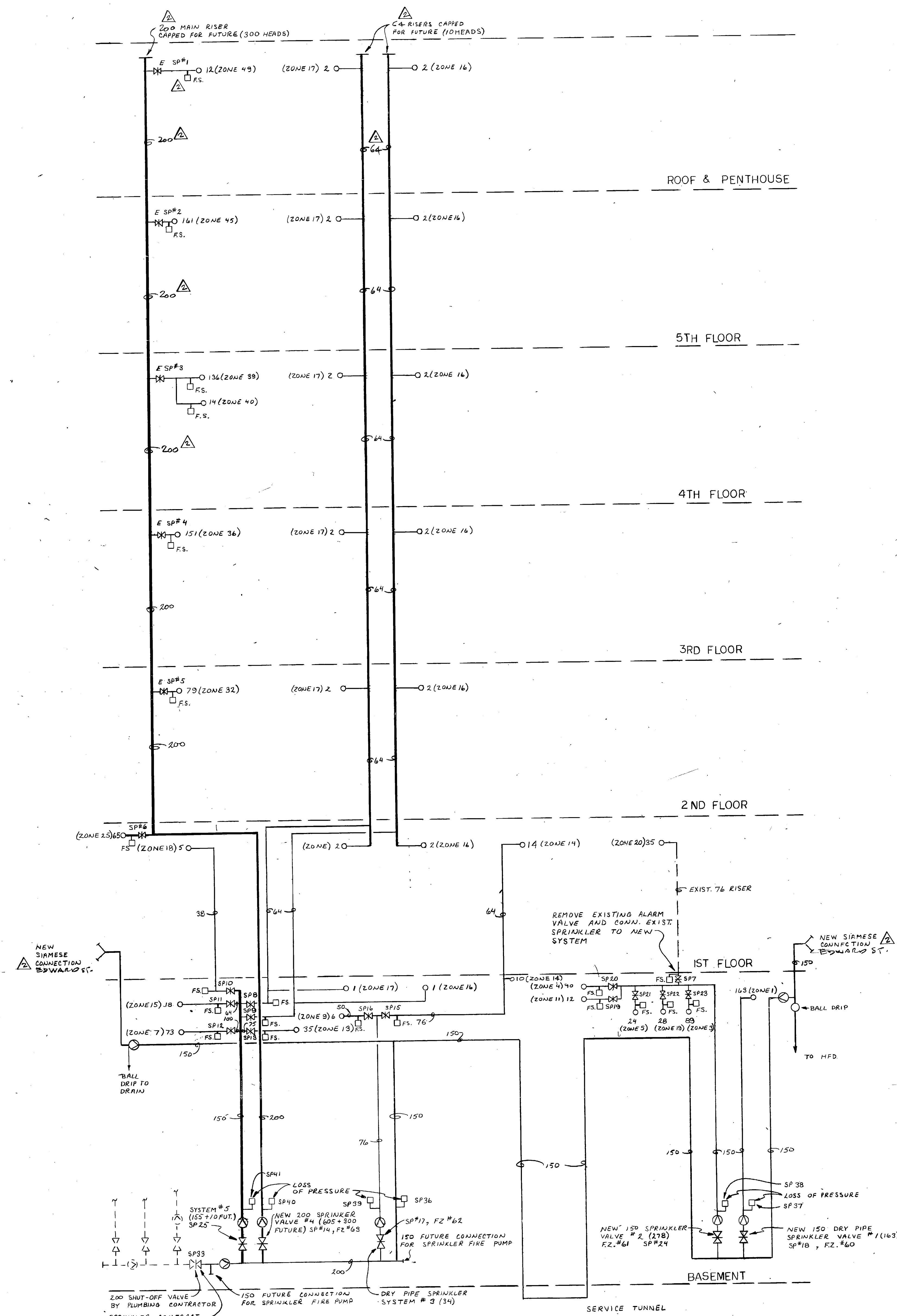
CHECKED 1-2
SCALE 1:100
1-12/83 WG NO **M-27**

DATE AUG 17/82

CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS



ROOF & PENTHOUSE SCALE 1:100



SPRINKLER RISER DIAGRAM NTS

METRIC

NOTES

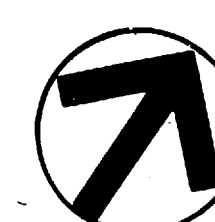
NOTES
FS. - FLOW SWITCH
SP - ELECTRIC SUPERVISED POINT
(VALVE / PRESS. SWITCH)

2. REFER TO STAN SMITH
SPRINKLER DESIGN SERVICES
LIMITED DRAWING SP-7 FOR
HYDRAULIC DESIGN OF THIS
AREA

2. FOR FINAL ZONE NUMBERS
REFER TO APPROVED FIRE
ALARM LOG.

2	REVISED AS BUILT	JUNE 85	SH	
1	ISSUED FOR PERMIT + TENDER	AUG 19 84		

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ASSOCIATES (1971) LTD.**
Consulting Engineers
MARKHAM ONTARIO



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ADDITIONS & ALTERATIONS
FACULTY OF DENTISTRY
UNIVERSITY OF TORONTO

PROJECT UNIVERSITY OF TORONTO
PENTHOUSE & RISER DIAGRAM
TITLE SPRINKLER

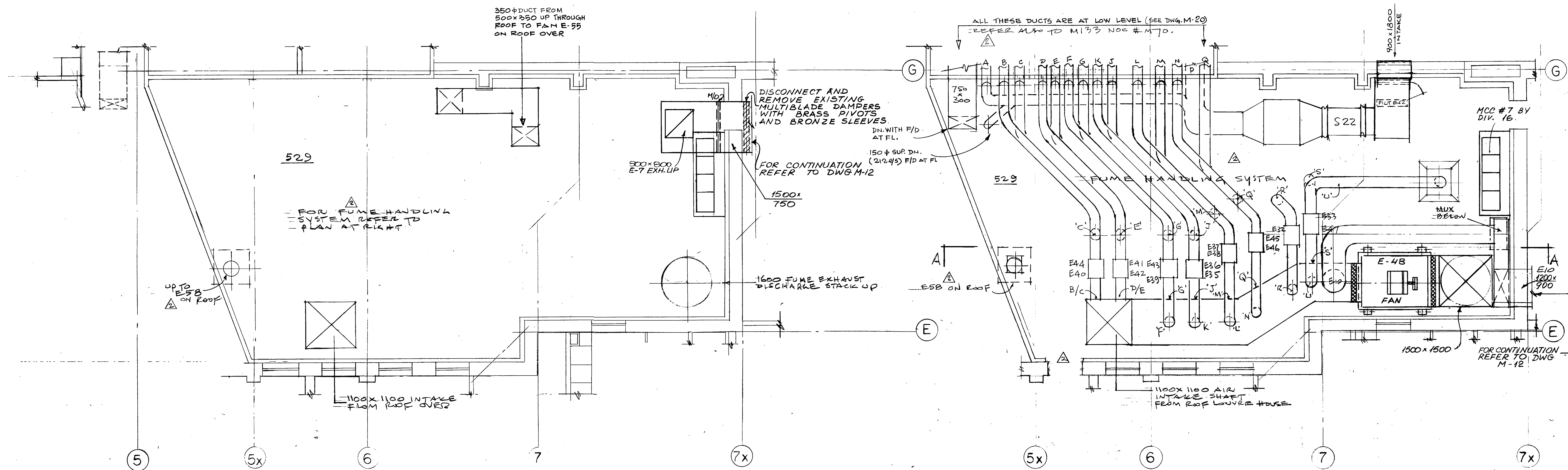
TITLE		
DRAWN	W.D.	COMM 7781
CHECKED	<i>JK</i>	

SCALE AS NOTED
DATE AUG. 19/82. DWG NO. M-28

CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS

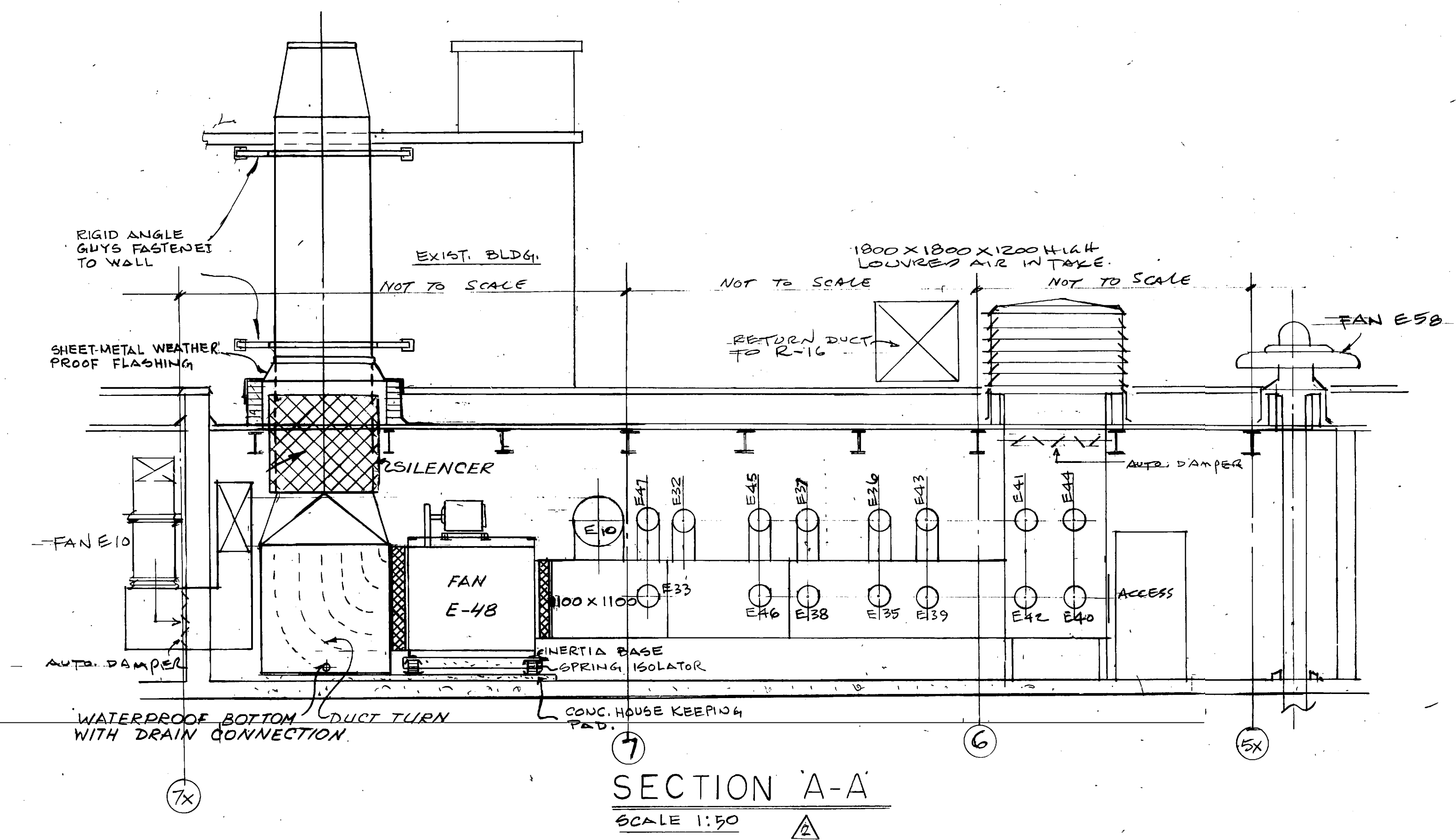
DUCT SCHEDULE		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
NO.	SIZE	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300
SERVICE		SUP. EXH.	EXH.	EXH.	EXH.	EXH.	EXH.	EXH.	EXH.	EXH.	EXH.	EXH.	EXH.	EXH.	EXH.	EXH.	EXH.	EXH.	EXH.	EXH.	EXH.	EXH.
UNIT OR FAN		1097	471	565	471	283	471	471	283	518	471	848	471	2166	188	283	141	377				
		E-22	E-44	E-40	E-41	E-42	E-43	E-39		E-35	E-36	E-37	E-38	E-49	E-22	E-46	E-32	E-33	E-47			

METRIC

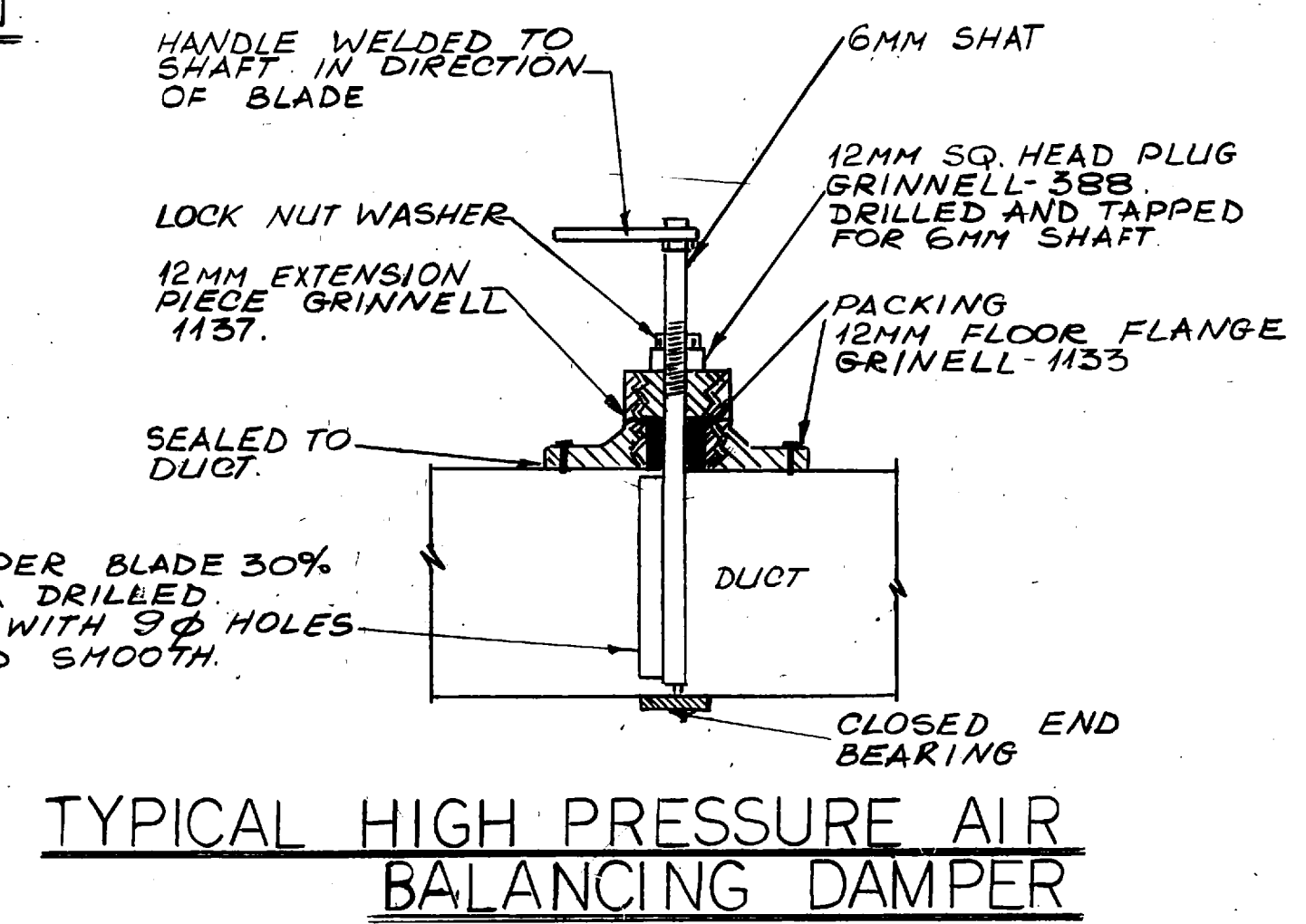


5TH FLOOR MECHANICAL ROOM #529
HIGH LEVEL PLAN
SCALE 1:50

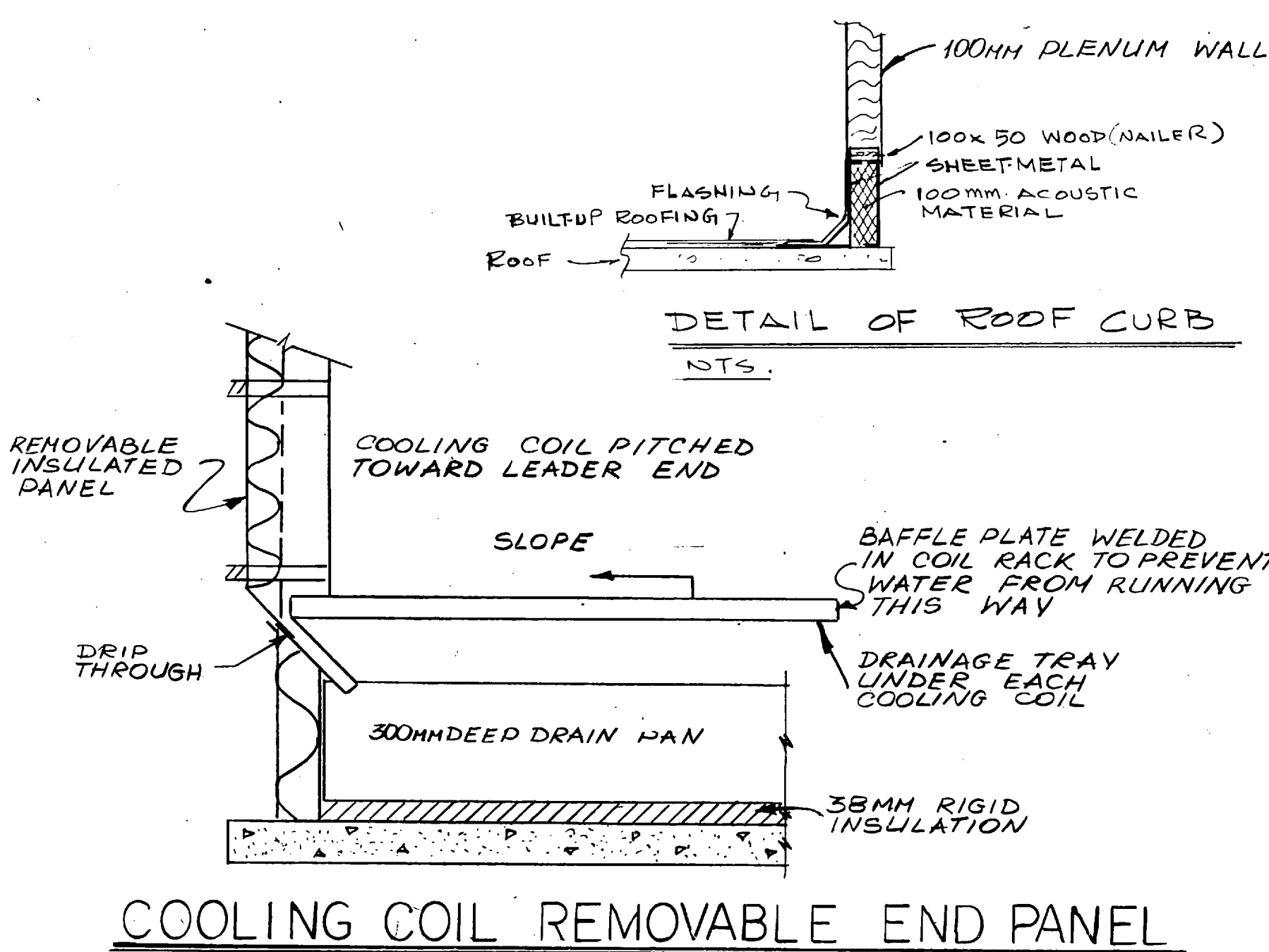
5TH FLOOR MECHANICAL ROOM #529
LOW LEVEL PLAN
SCALE 1:50



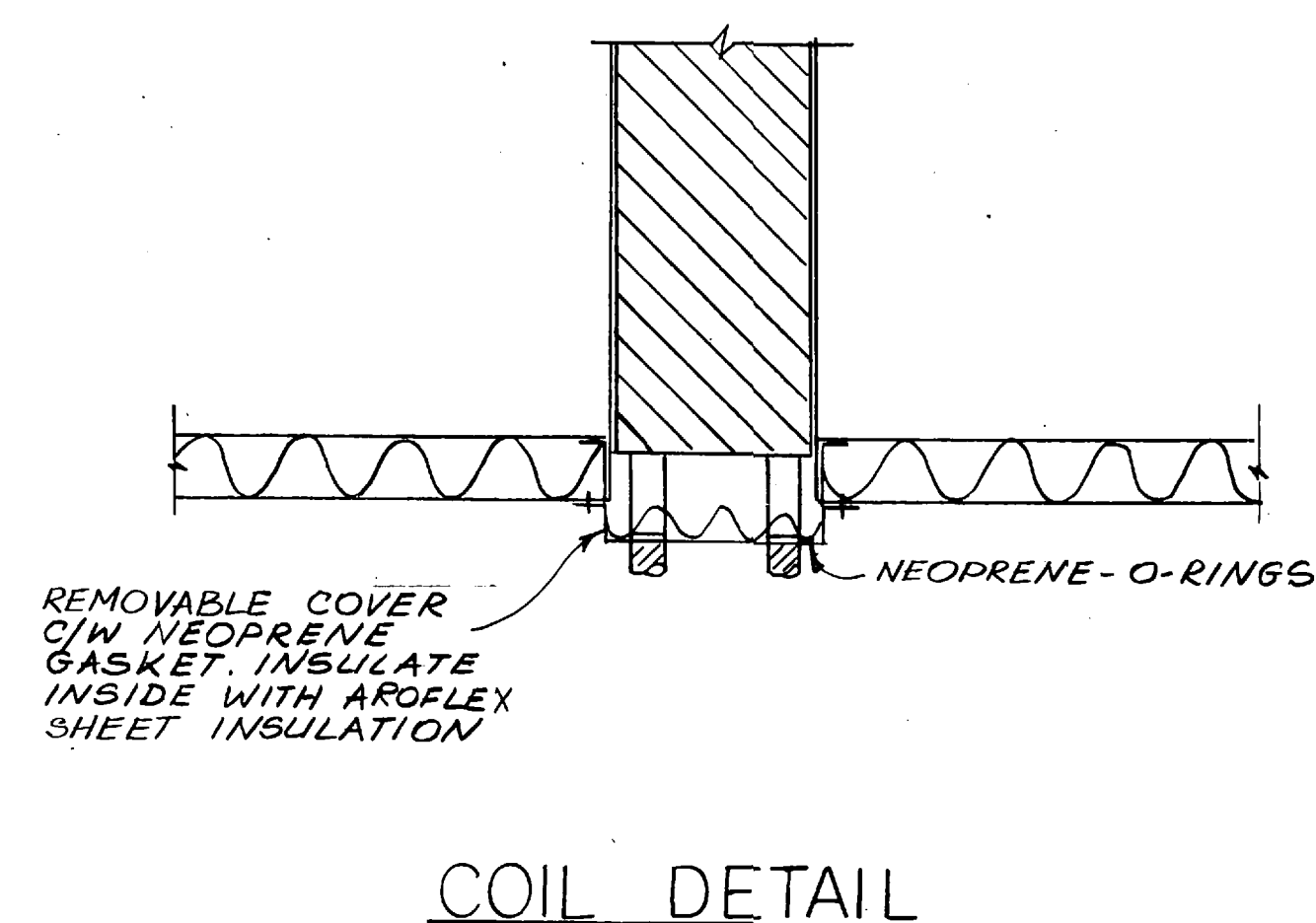
SECTION A-A
SCALE 1:50



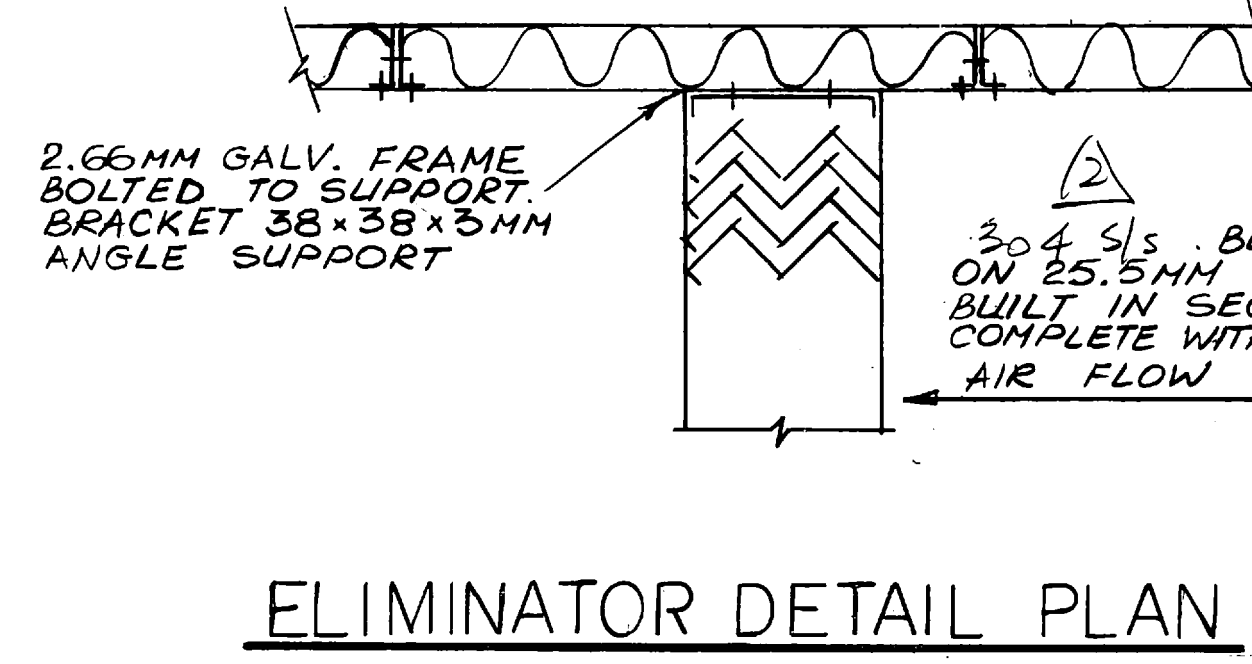
TYPICAL HIGH PRESSURE AIR
BALANCING DAMPER



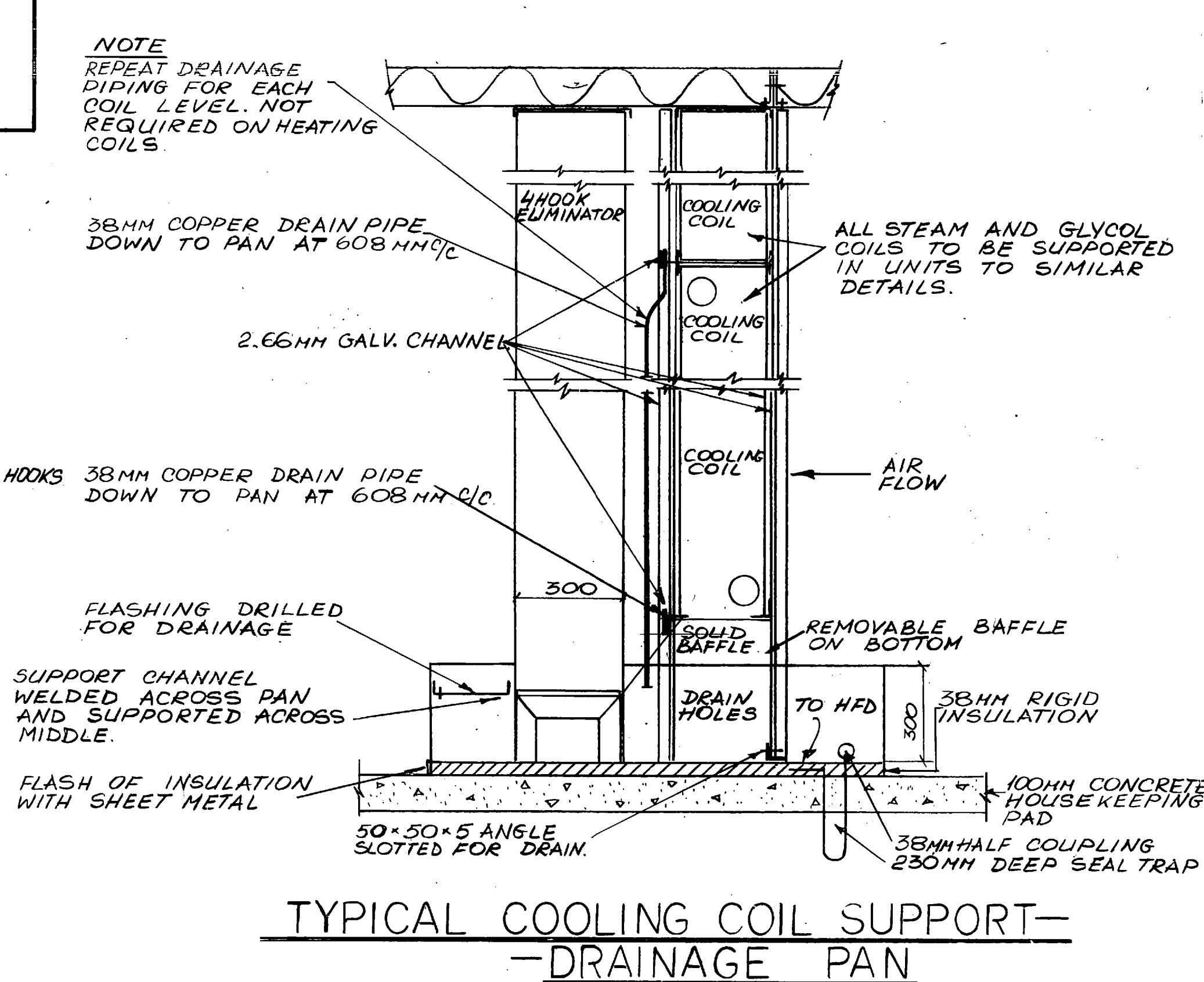
COOLING COIL REMOVABLE END PANEL



COIL DETAIL

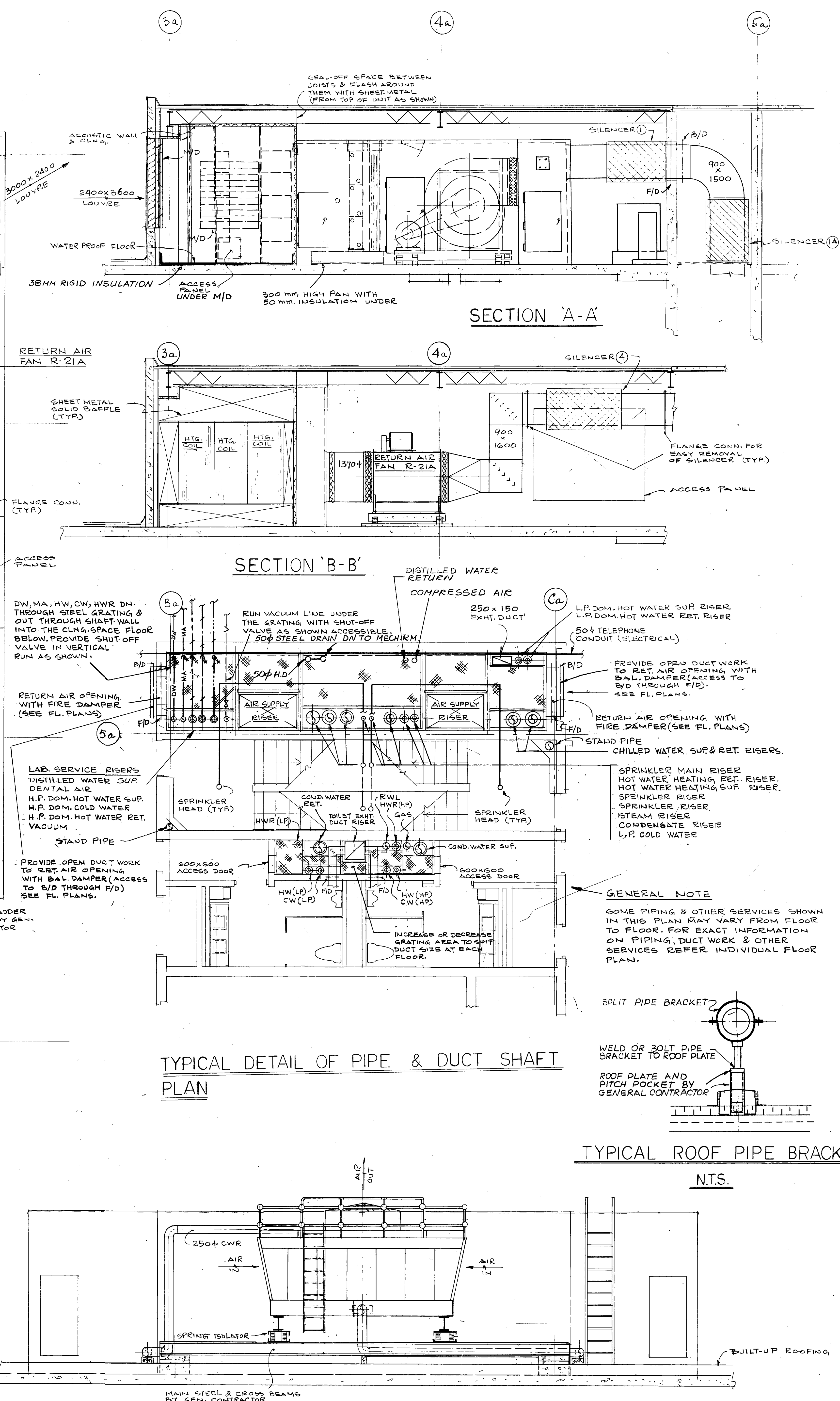


ELIMINATOR DETAIL PLAN



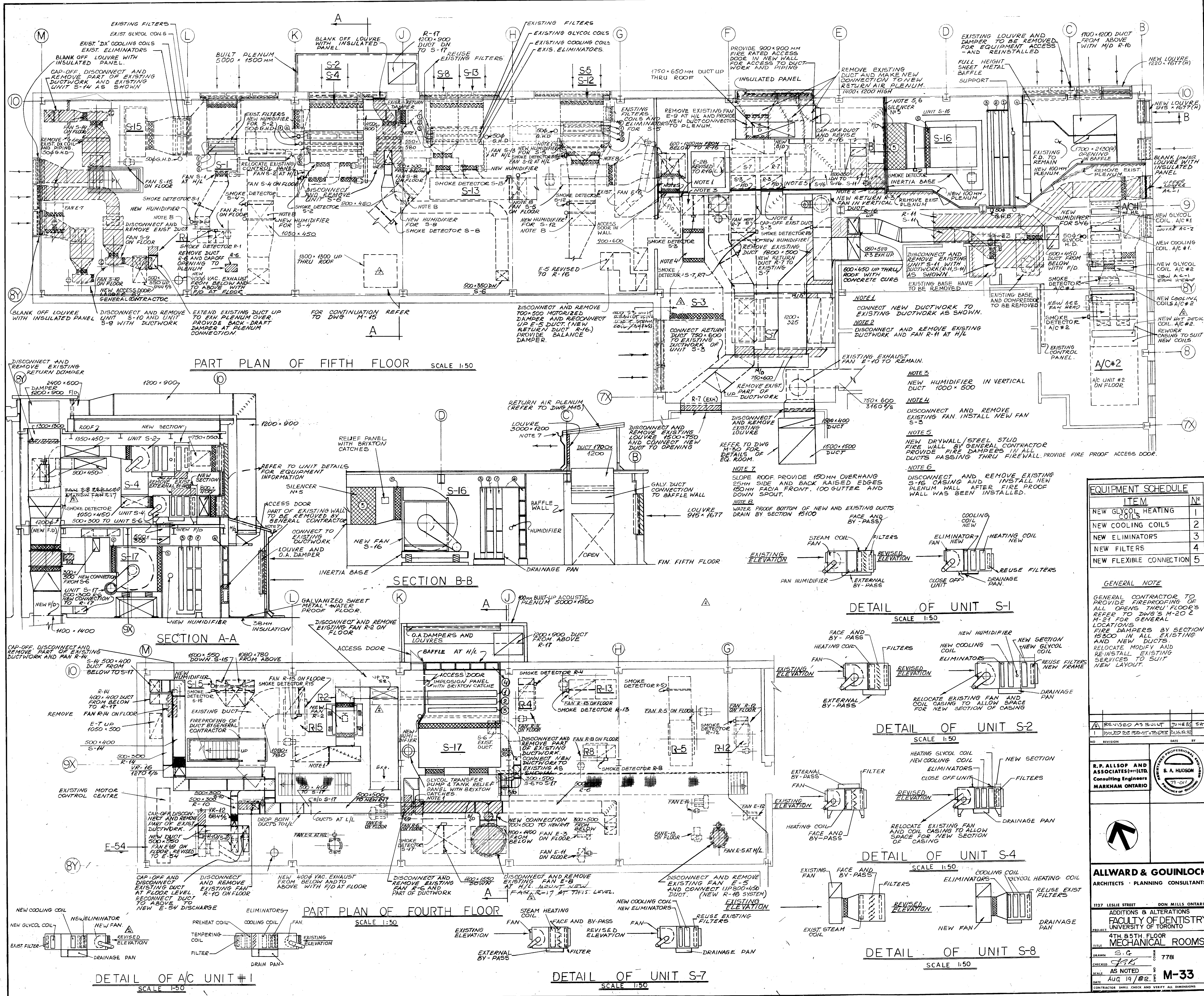
TYPICAL COOLING COIL SUPPORT-
DRAINAGE PAN

REVISED AS BUILT	JUNE 85	BY	
ISSUED FOR PERMIT	JUNE 85	DATE	
NO.	REVISION	DATE	BY
<p>R.P. ALLSOP AND ASSOCIATES (INC.) LTD. Consulting Engineers MARKHAM ONTARIO</p> <p>S. A. HUDSON REGISTERED PROFESSIONAL ENGINEER 75-011 PROVINCE OF ONTARIO</p>			
<p>ALLWARD & GOUINLOCK ARCHITECTS - PLANNING CONSULTANTS</p>			
<p>1127 LESLIE STREET DON MILLS ONTARIO</p>			
<p>ADDITIONS & ALTERATIONS FACULTY OF DENTISTRY UNIVERSITY OF TORONTO</p>			
<p>MECHANICAL ROOM</p>			
<p>SCALE: S.C. & S.C. 7781</p>			
<p>CHECKED: [Signature] AS NOTED</p>			
<p>DATE: AUG. 19/82 M-30</p>			
<p>CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS</p>			



ALLWARD & GOUINLOCK
ARCHITECTS • PLANNING CONSULTANTS

1127 LESLIE STREET		DON MILLS ONTARIO	
ADDITIONS & ALTERATIONS FACULTY OF DENTISTRY UNIVERSITY OF TORONTO 6TH. FLOOR PLAN MECHANICAL ROOM			
TITLE			
DRAWN	S.C.	COMM	7781
CHECKED	JRK		
SCALE	1:50		
DATE	Aug 19/82.		
CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS		DWG NO	M-32



EQUIPMENT SCHEDULE		
ITEM	No.	
NEW GLYCOL HEATING COILS	1	
NEW COOLING COILS	2	
NEW ELIMINATORS	3	
NEW FILTERS	4	
NEW FLEXIBLE CONNECTION	5	

GENERAL NOTE

GENERAL CONTRACTOR TO PROVIDE FIREPROOFING OF ALL OPENINGS THRU FLOOR'S REFER TO DWG'S M-20 & M-21 FOR GENERAL LOCATIONS. FIRE DAMPERS BY SECTION 15300 IN ALL EXISTING AND NEW DUCTS. RELOCATE EXISTING SERVICES TO SUIT NEW LAYOUT.

REVISED AS BUILT JUNE 83 SW
 1 ISSUED FOR PERMIT-RENDER DWG'S 82-01
 NO REVISION DATE BY

R.P. ALLSOP AND ASSOCIATES (1971) LTD.
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ALLWARD & GOUNLOCK
 ARCHITECTS - PLANNING CONSULTANTS

1127 LESLIE STREET DON MILLS ONTARIO
 ADDITIONS & ALTERATIONS
 FACULTY OF DENTISTRY
 UNIVERSITY OF TORONTO
 PROJECT
 4TH & 5TH FLOOR
 MECHANICAL ROOMS
 TITLE
 S.G. 778
 DRAWN
 CHECKED
 AS NOTED
 DATE
 AUG 19/82
 M-33
 CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS

NEW BUILDING

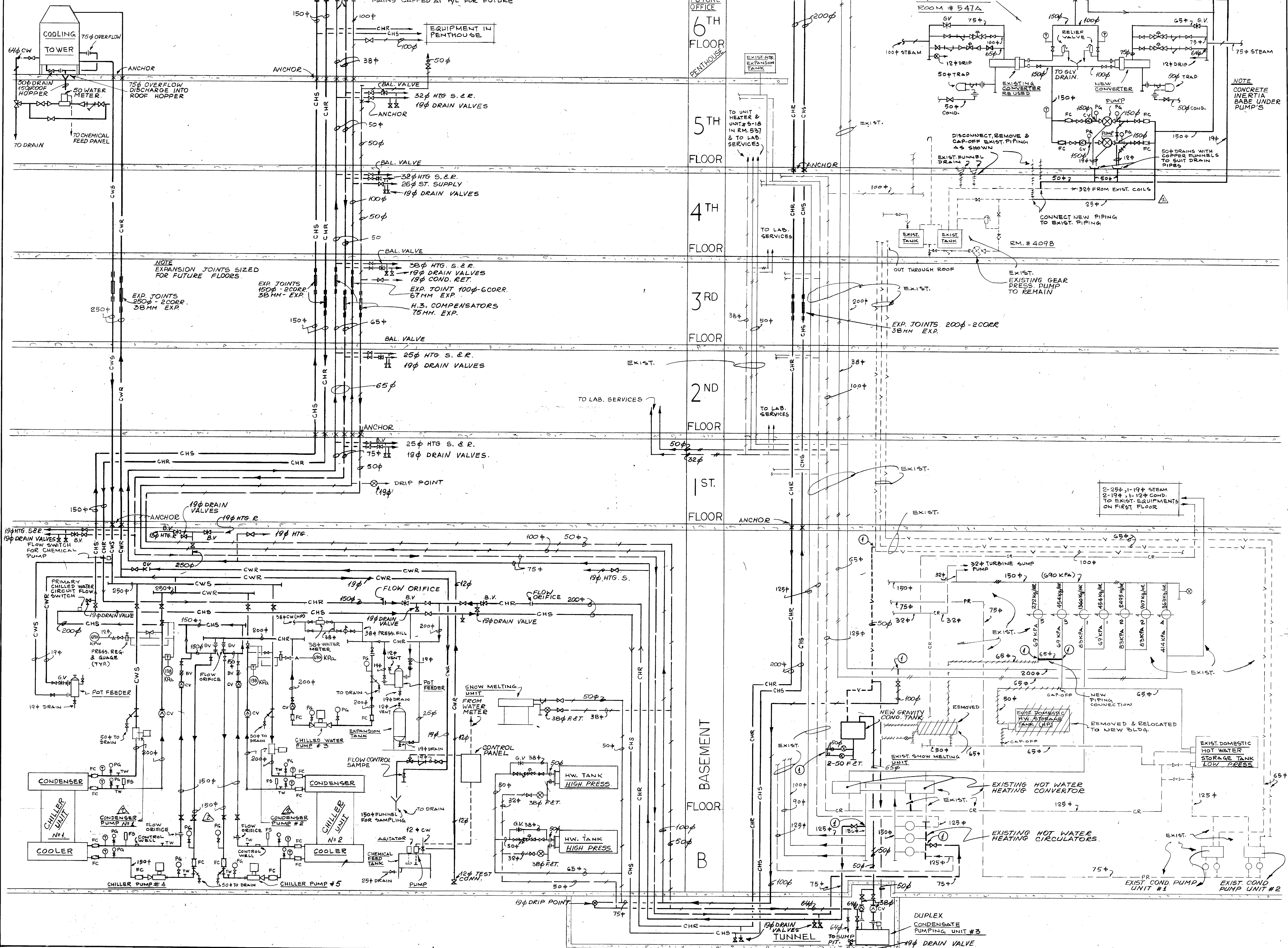
EXISTING BUILDING

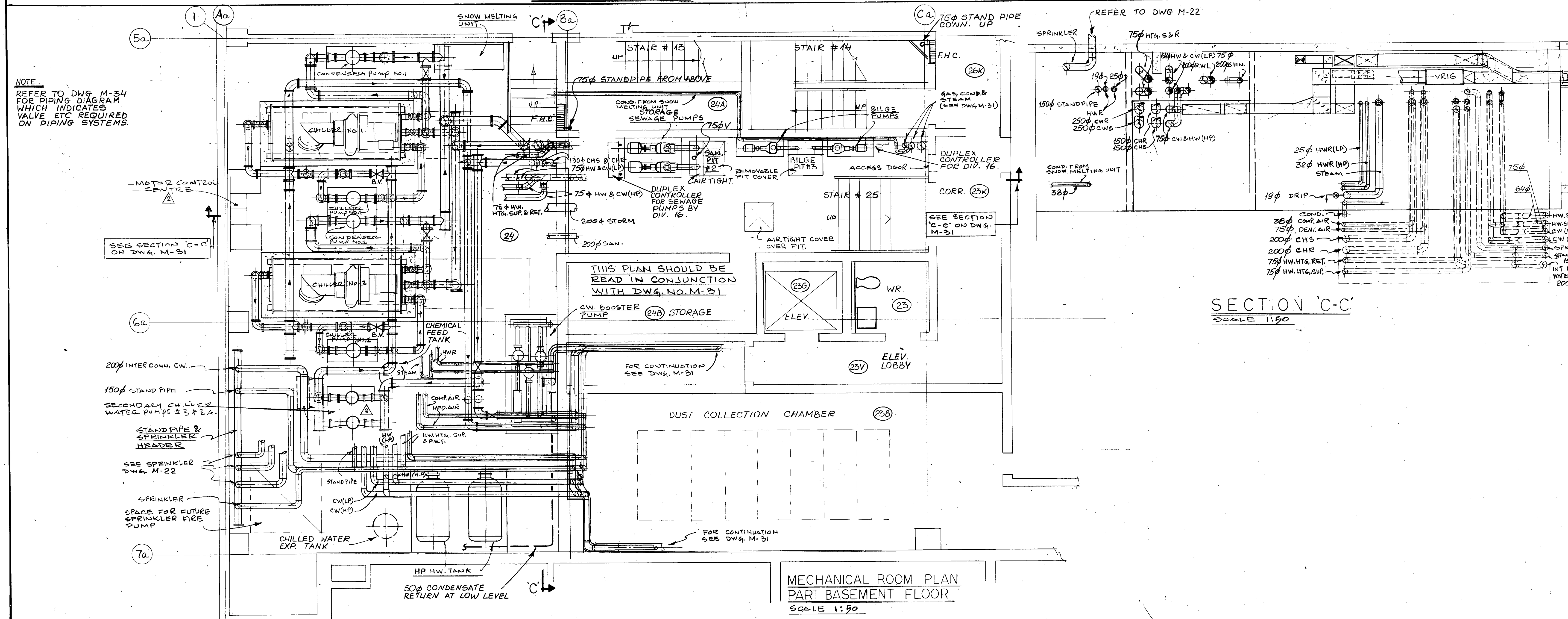
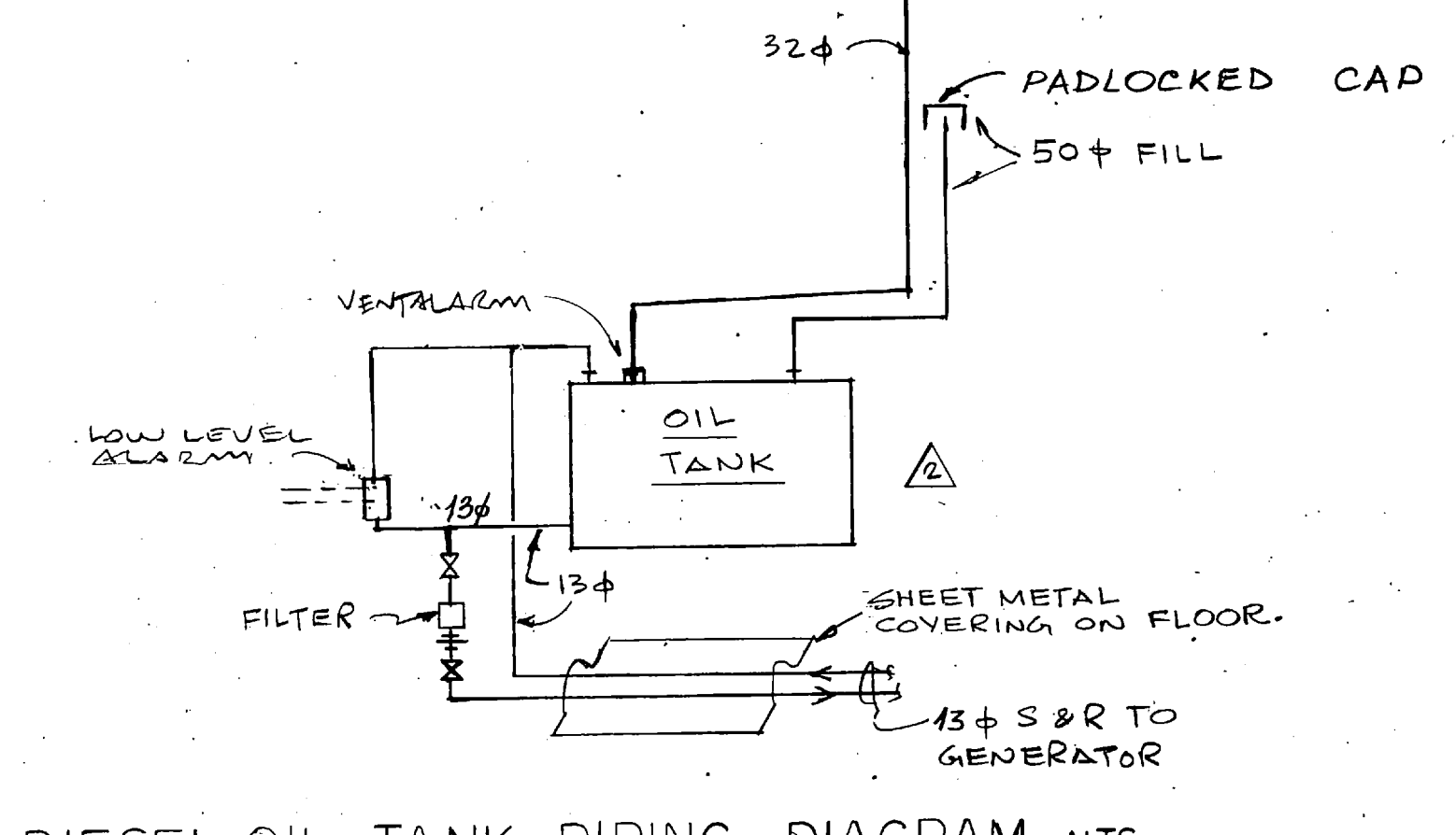
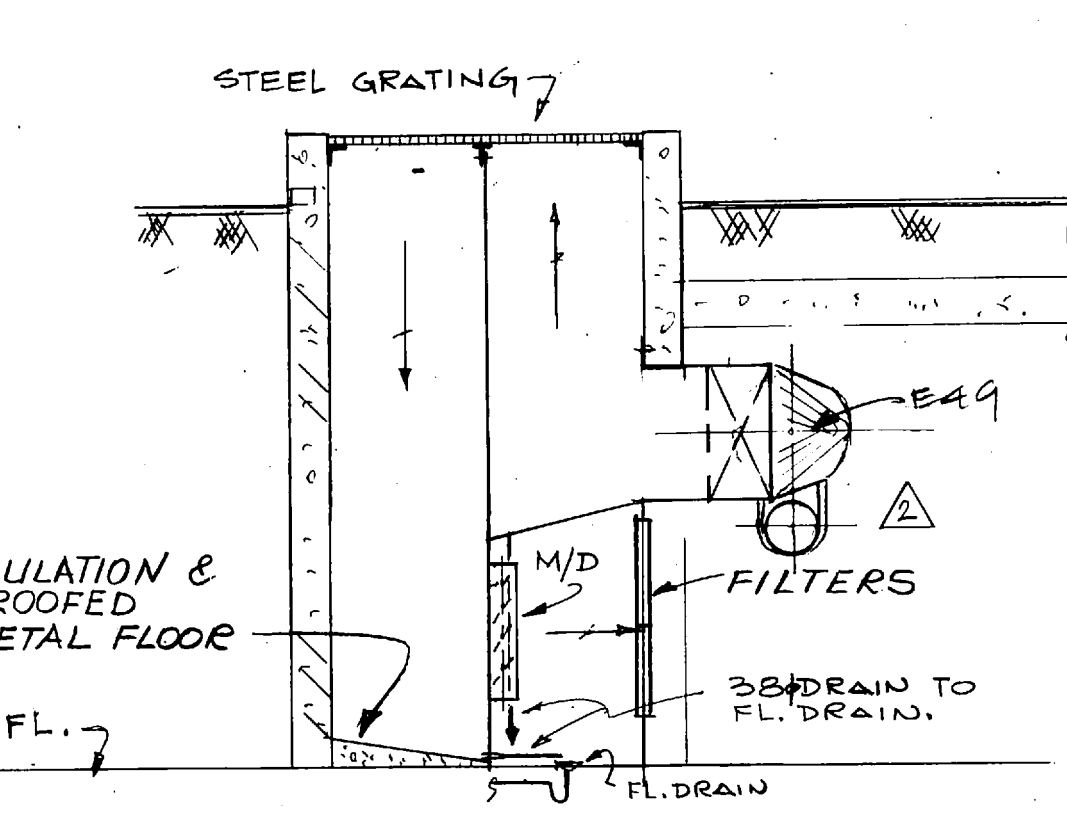
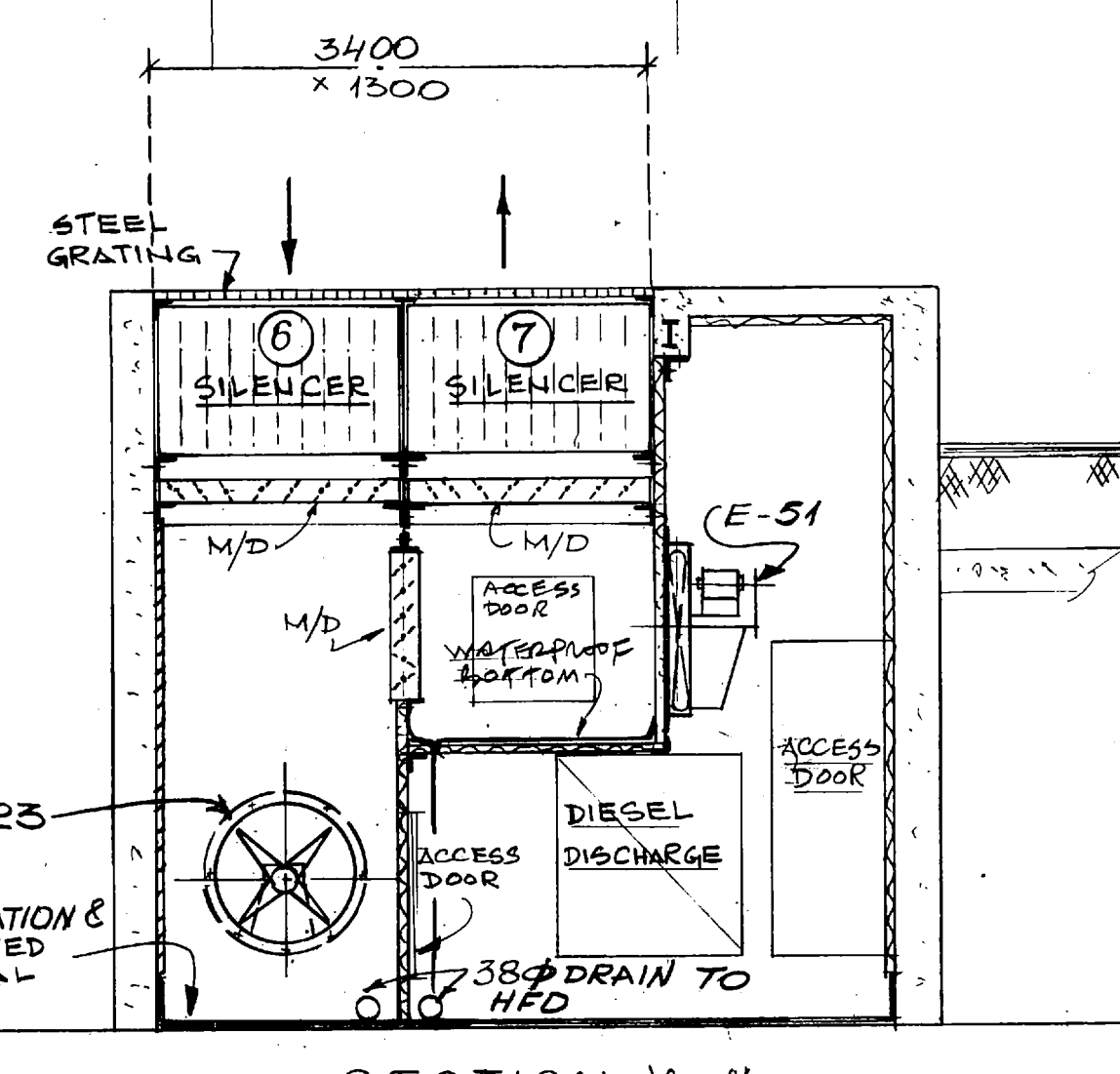
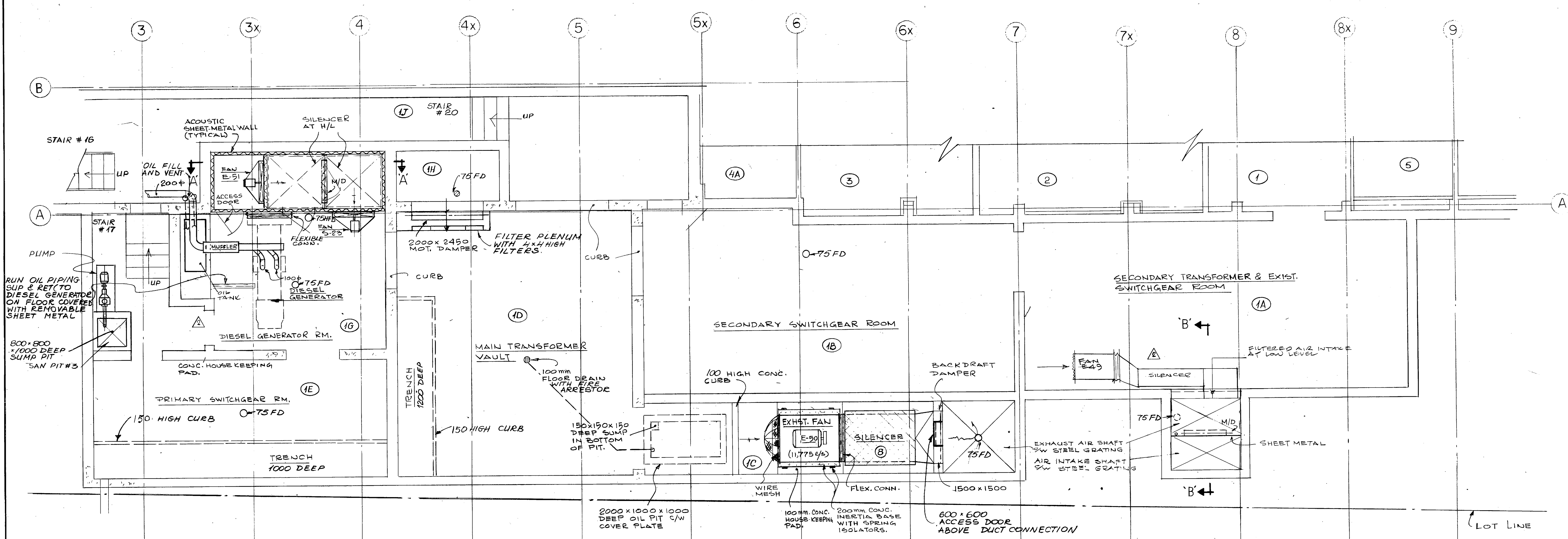
METRIC

LEGEND

- EXIST. PIPING
 ———— NEW PIPING
 — CWS — CONDENSER WATER SUPPLY
 — CWR — CONDENSER WATER RETURN
 — CHS — CHILLED WATER SUPPLY
 — CHR — CHILLED WATER RETURN
 ———— STEAM
 ———— CONDENSATE RET.
 ———— HOT WATER HEATING SUPPLY
 ———— HOT WATER HEATING RETURN
 — V — VALVE
 — V — CONTROL VALVE
 — T — THERMOMETER
 — PG — PRESSURE GAUGE
 — DP — DRIP POINT
 — U — UNION
 — FC — FLEXIBLE CONN.
 — C — CHECK VALVE
 — I — INCREASER OR REDUCER
 — S — STRAINER
 — FS — FLOW SWITCH
 — BV — BALANCE VALVE
 — TW — THERMOMETER WELL
 — GV — GLOBE VALVE

NOTE
① CONNECT NEW PIPING TO EXISTING PIPING

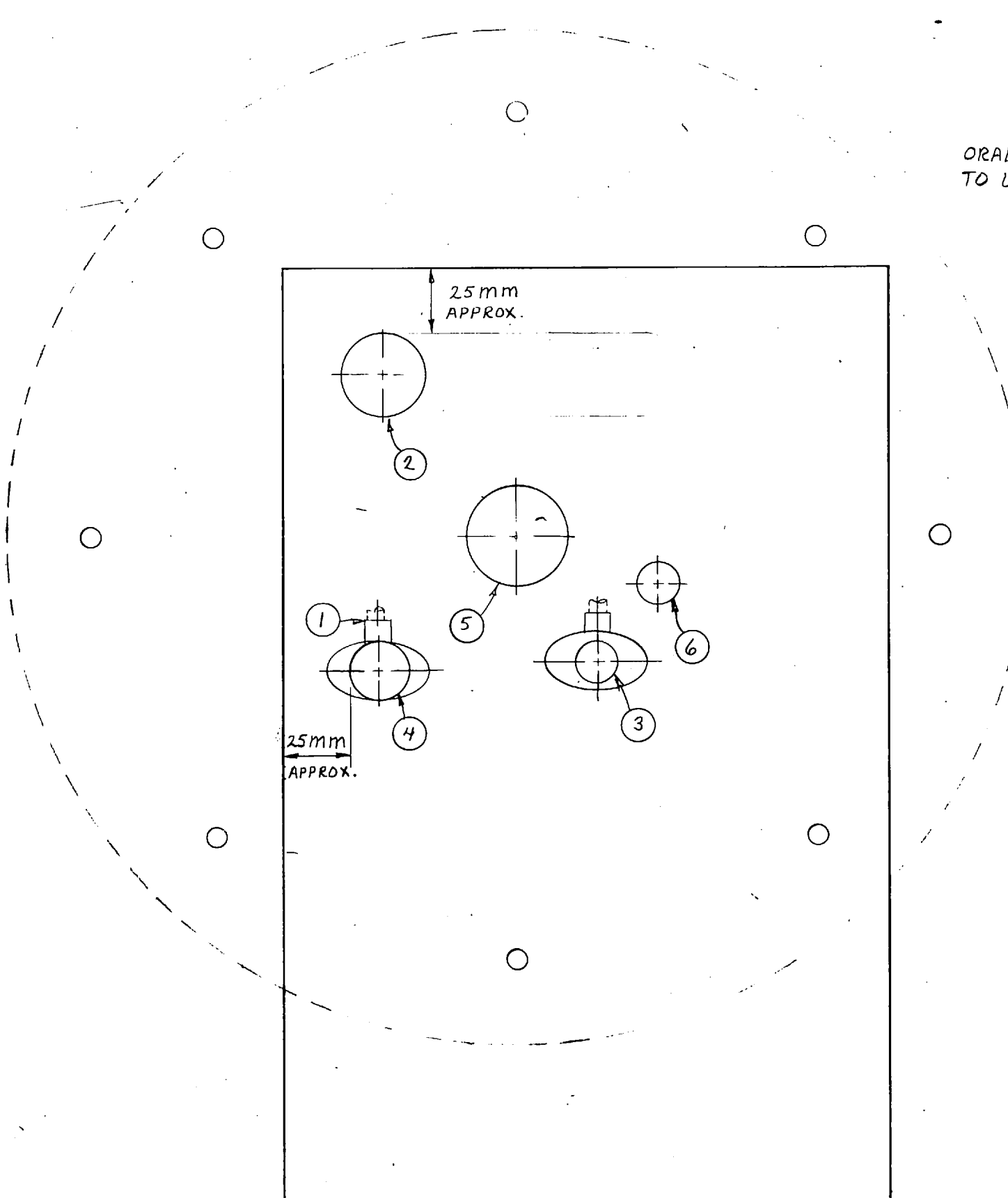




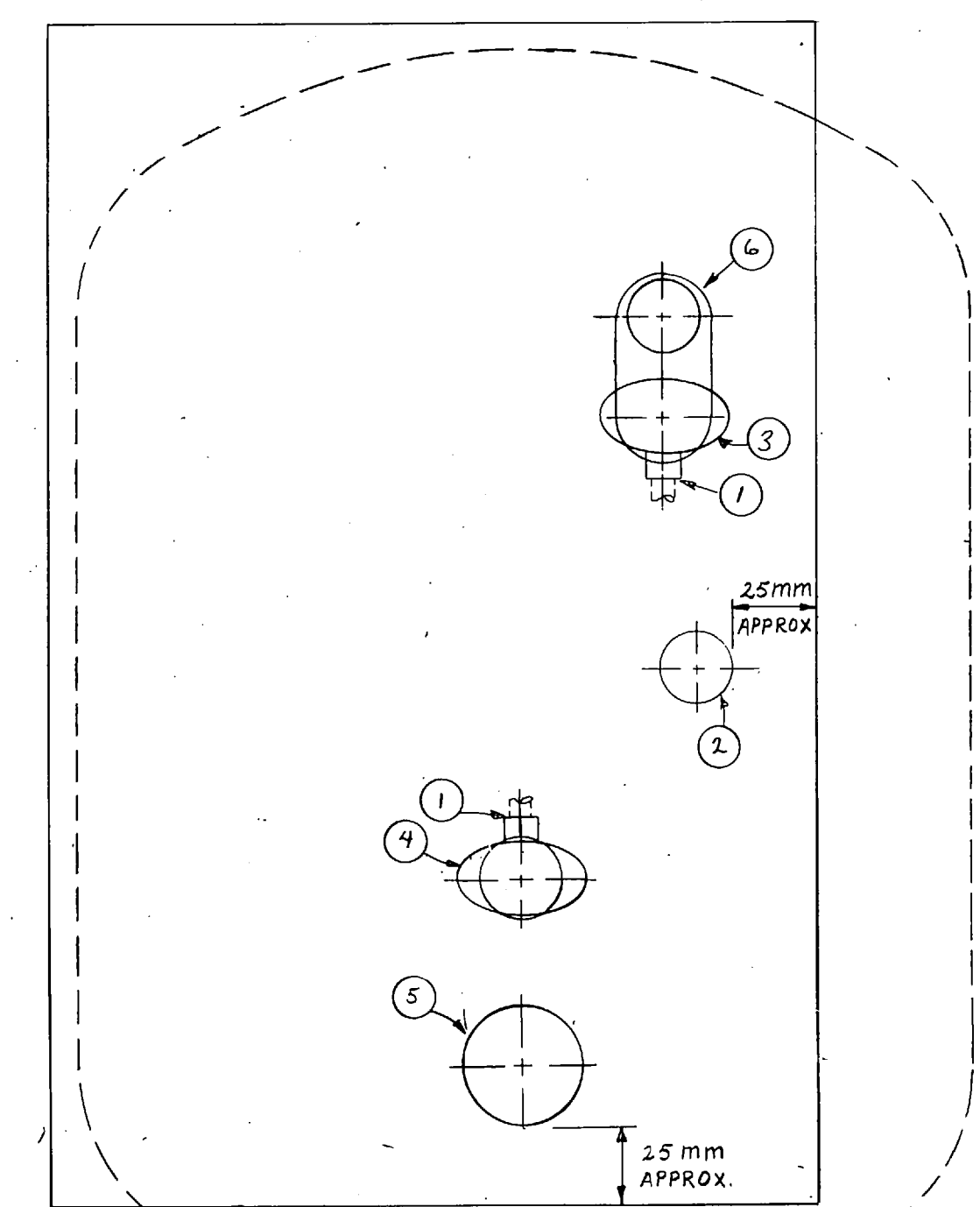
REVISED AS BUILT JUNE 88	
1	WATER RE-ENTRY + RE-ENTRY AUG 19 88
NO	REVISION
R.P. ALLSOP AND ASSOCIATES (INC.) LTD. Consulting Engineers MARKHAM, ONTARIO	
S. A. HUDSON 79-011 PROFESSIONAL ENGINEER PROVINCE OF ONTARIO	
ALLWARD & GOINLOCK ARCHITECTS - PLANNING CONSULTANTS	
1127 LESLIE STREET DON MILLS, ONTARIO	
ADDITIONS & ALTERATIONS FACULTY OF DENTISTRY UNIVERSITY OF TORONTO	
MECHANICAL DETAILS	
DRAWN S.C. CHECKED J.R.B. SCALE AS NOTED DATE AUG 19 88	7781 M-35 CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS

METRIC

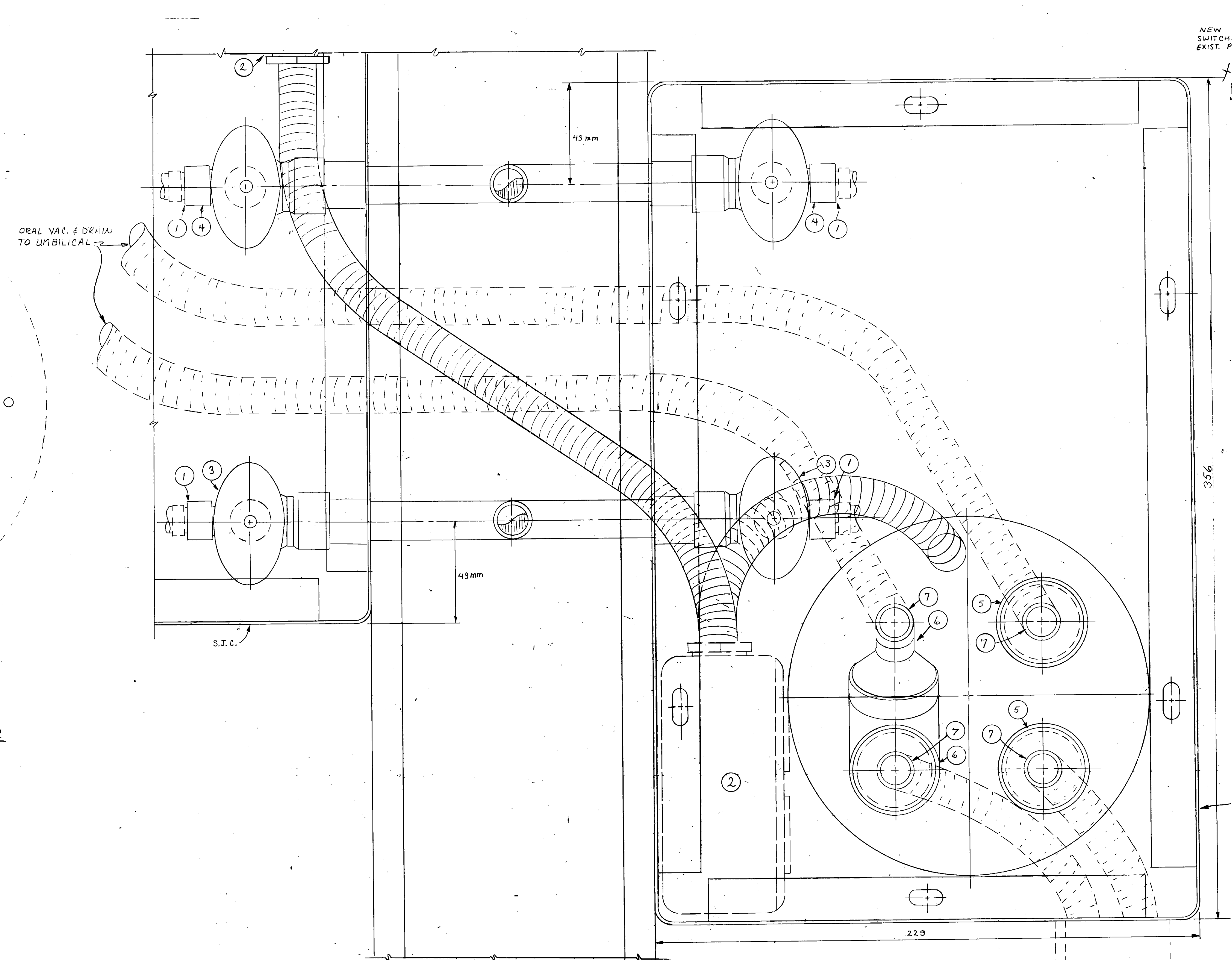
- NOTES**
1. TERMINATION POINT OF DIV. 15 CONTRACT
 2. CONDUIT FOR AIR, RECENT TO BE SUPPLIED BY DIV. 15. LOCATION TO BE DETERMINED ON SITE WITH SUPPLIER OF S.I.C.
 3. 1/2" AIR CONN. WITH VALVE BY DIV. 15
 4. 1/2" CW. CONN. WITH VALVE BY DIVISION 15
 5. 32# SAN. BELOW FLOOR REDUCED TO 1/2" & THEN TO 1/2"
 6. 1/2" OD COPPER PIPE FOR ORAL VAC. CONN. BY DIVISION 15
 7. TERMINATION POINT OF DIVISION 15 CONTRACT 25 mm BELOW FLOOR (1/2" CHAIR SUPPLY SHALL CONNECT TO 1/2" COPPER PIPE)



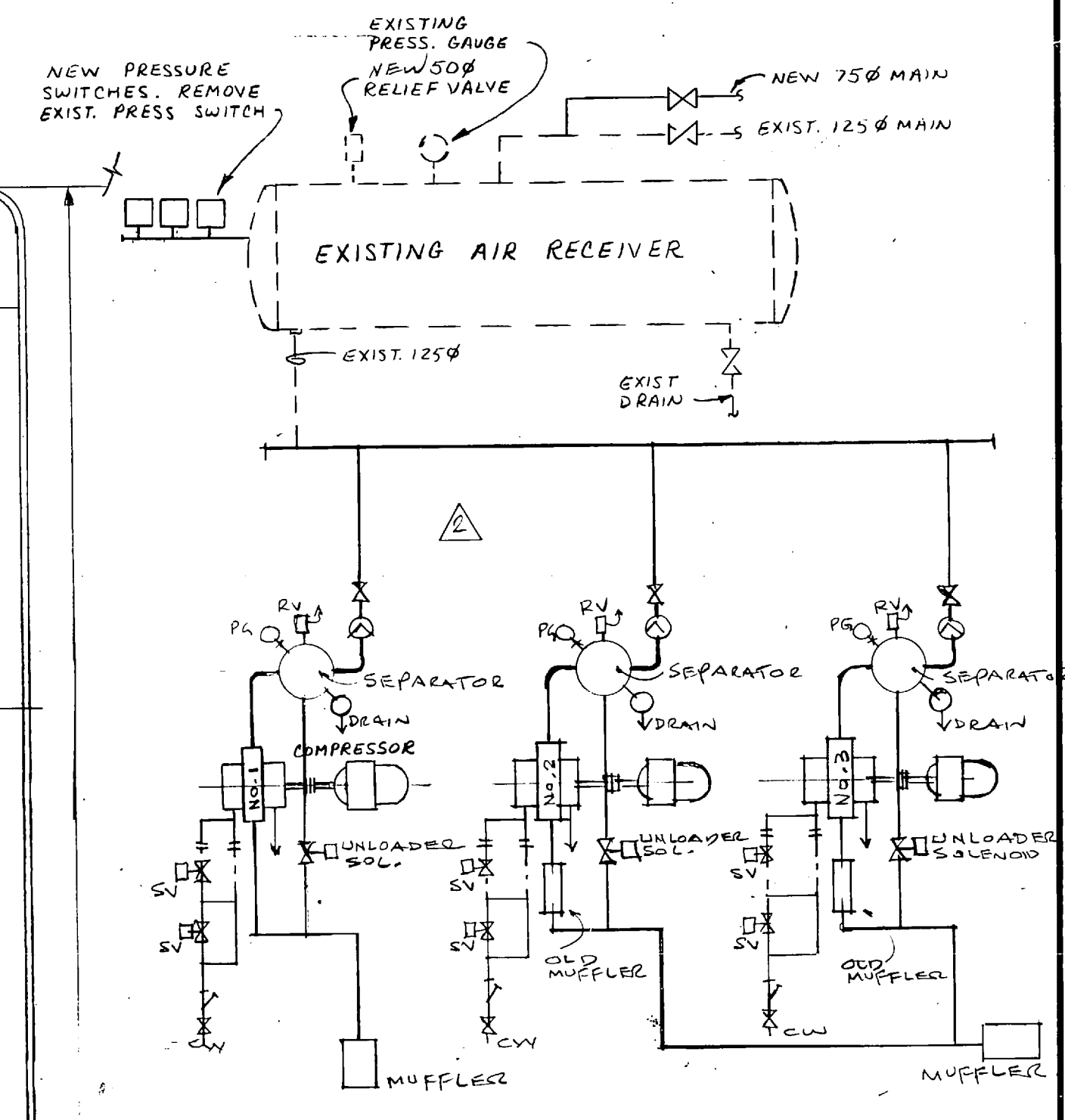
TYPICAL EXIST. SERVICE CENTRE PLAN SCALE 1:2
CLINIC TWO-ORAL DIAGNOSIS CLINIC



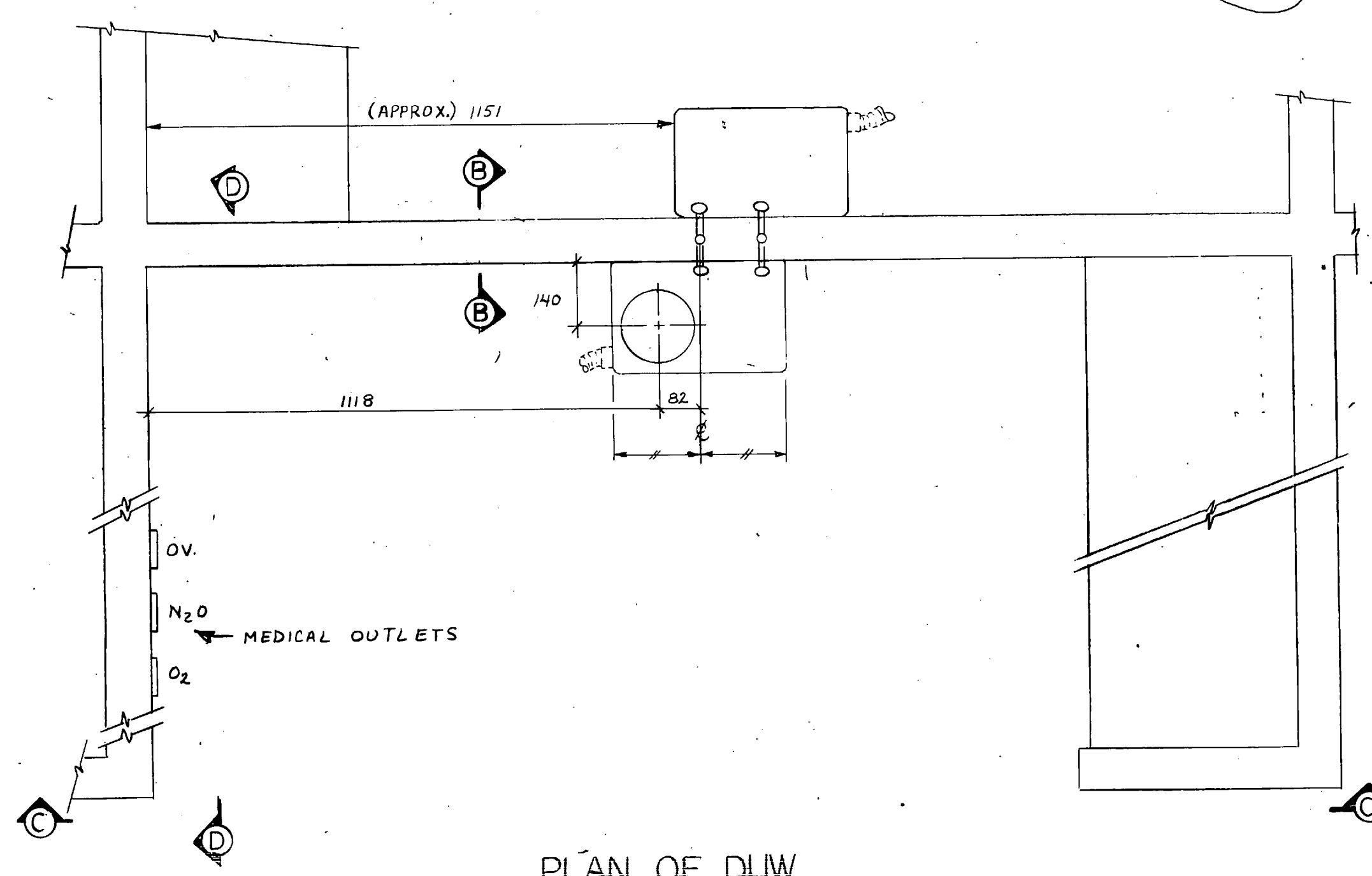
TYPICAL EXISTING SERVICE CENTRE SCALE 1:2
PAEDODONTIC CLINIC



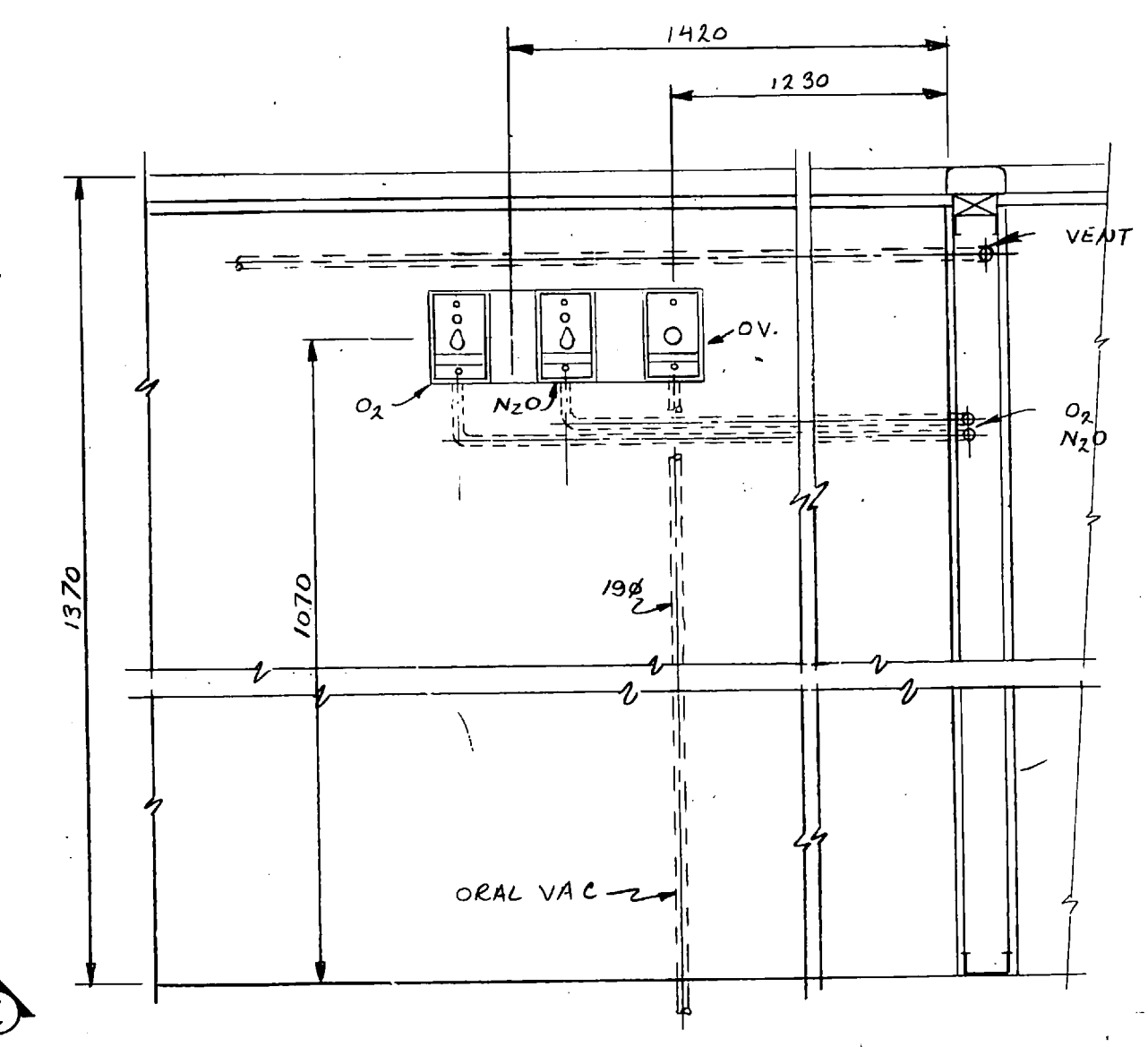
TYPICAL FLOOR MOUNTED STANDARD JUNCTION CENTRE PLAN SCALE 1:1



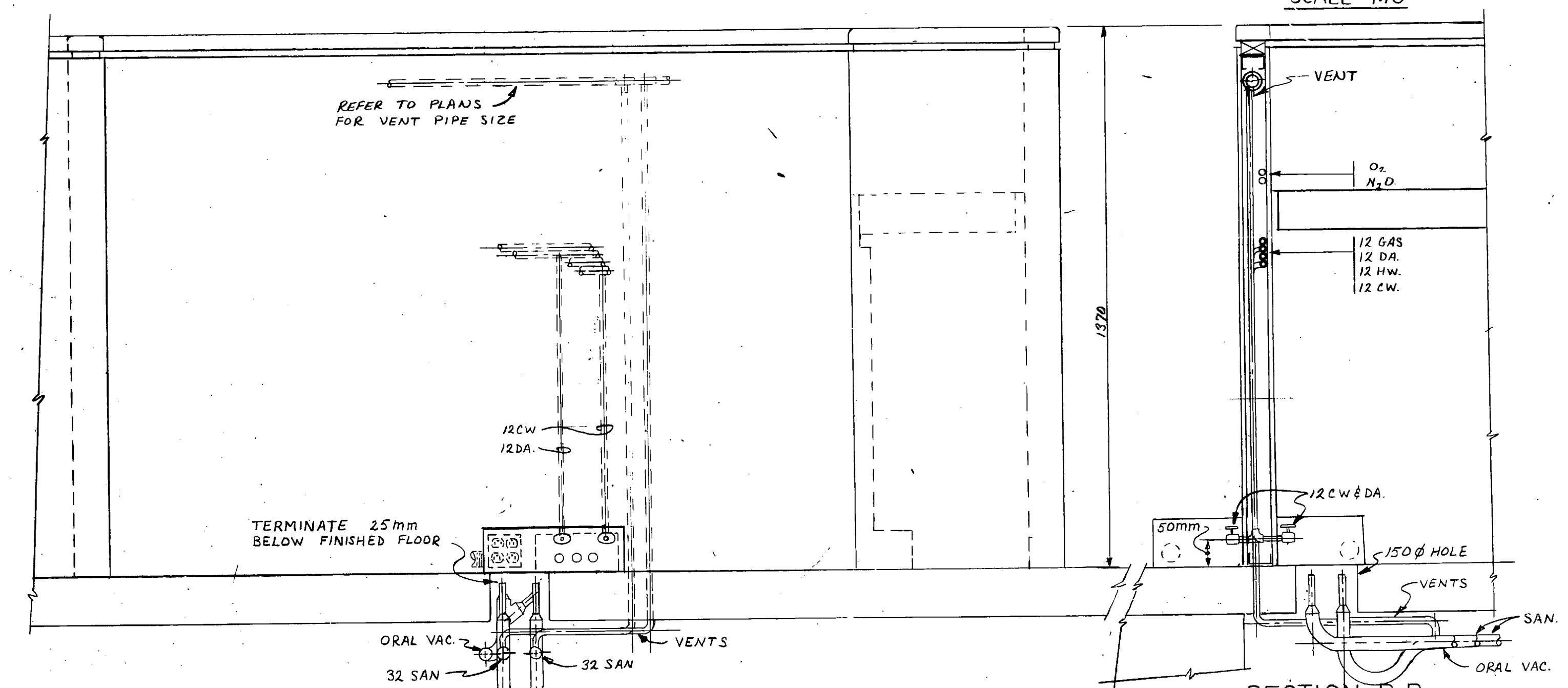
DENTAL COMPRESSED AIR PIPING DIAGRAM NTS



PLAN OF DUW SCALE 1:10

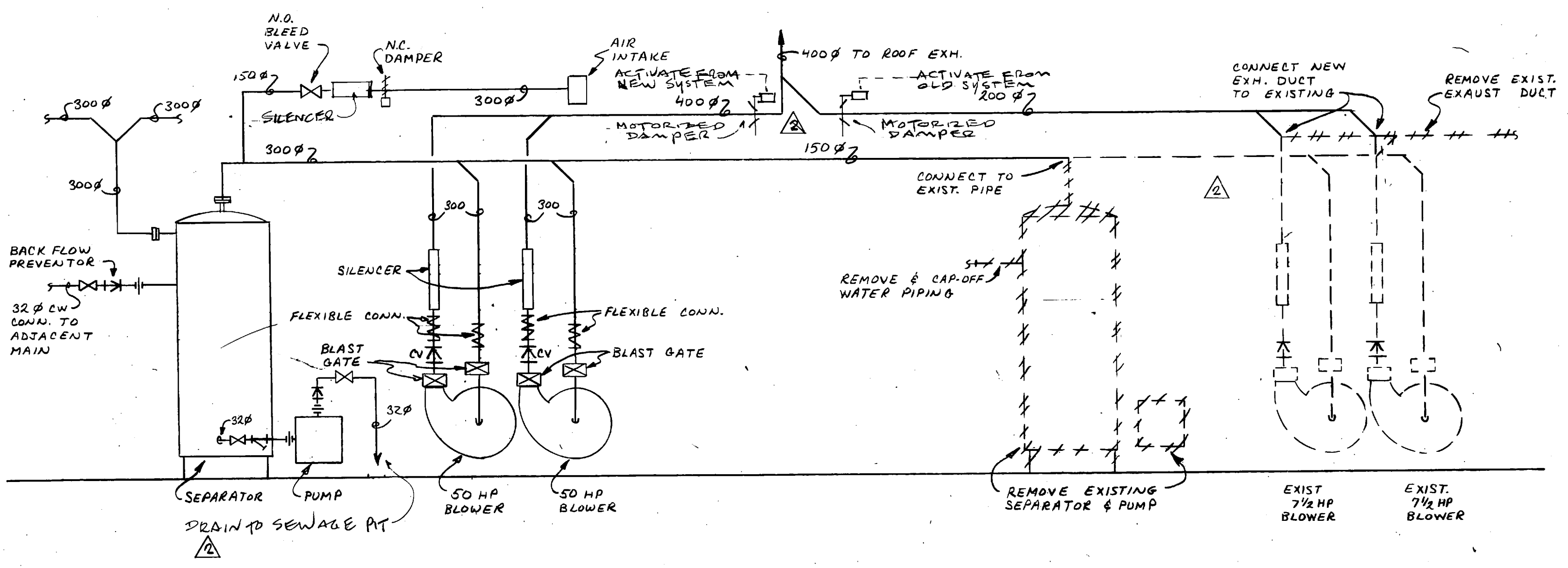


SECTION D-D MEDICAL OUTLETS SCALE 1:10



SECTION C-C-TYPICAL DENTAL CHAIR CUBICAL SCALE 1:10

SECTION B-B TYPICAL DU SCALE 1:10



PIPING DIAGRAM ORAL VACUUM SYSTEM NTS

REVISED AS BUILT	JUNE 85	SH
A	REVISION OF DM	HARIS WP
1	PROVED FOR TENDER & PERMIT	JULY 85
NO	REVISION	DATE BY

R.P. ALLSOP AND ASSOCIATES (1971) LTD.
Consulting Engineers
MARKHAM ONTARIO



ALLWARD & GOUNLOCK
ARCHITECTS - PLANNING CONSULTANTS

1127 LESLIE STREET DON MILLS ONTARIO
ADDITIONS & ALTERATIONS
FACULTY OF DENTISTRY
UNIVERSITY OF TORONTO

MECHANICAL DETAILS

DRAWN - W.D.
CHECKED - J.K.
SCALE - AS NOTED
DATE - AUG. 19/82
CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS

M-36A