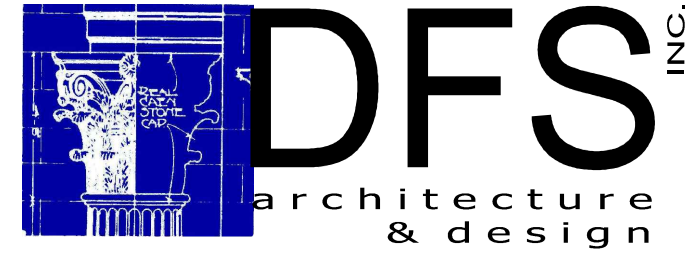


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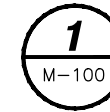


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GENERAL

NEW



DETAIL 1 ON DRAWING M-100

DEFINITIONS

FORESEE SUPPLY, INSTALL ET CONNECT

ABBREVIATIONS

- L/s LITERS BY SECOND
- SH-X TYPE "X" SHOWER
- WC-X TYPE "X" WATER CLOSET
- KS-X TYPE "X" KITCHEN SINK
- CM-X TYPE "X" COFFEE MACHINE
- LAV-X TYPE "X" LAVATORY
- JS-X TYPE "X" MOP SINK
- U-X TYPE "X" URINAL
- HWT-X TYPE "X" WATER HEATER
- AC-X TYPE "X" AIR CONDITIONING UNIT
- EF-X TYPE "X" EXHAUST FAN
- RTU-X TYPE "X" ROOFTOP UNIT
- COMP-X TYPE "X" COMPRESSOR

PIPING

- C— PIPING UP
- O— PIPING DOWN
- ◇— CONNECTION UNDERNEATH
-]— CAP
- Y— CUT ON PIPE
- DCW— DOMESTIC COLD WATER
- DHW— DOMESTIC HOT WATER
- DHR— RECIRCULATED DOMESTIC HOT WATER
- SDH— SANITARY DRAINAGE UNDER SLAB
- SAG— SANITARY DRAINAGE ABOVE GROUND
- ST— STORM DRAIN UNDER SLAB
- ST— STORM DRAIN ABOVE SLAB
- RL— LIQUID STATE REFRIGERANT
- RS— GAS STATE REFRIGERANT

PLUMBING

- P—TRAP
- ⊙FD FLOOR DRAIN
- NFHB NON-FREEZE HOSE BIB
- CO I— CLEAN OUT
- ⊙ FLOOR CLEANOUT

VENTILATION

- ▣ RETURN GRILLE
- 4-WAY SUPPLY DIFFUSER
- VAV-X VARIABLE AIR VOLUME BOX
- EXHAUST FAN
- SL— SILENCER
- SD— SMOKE DAMPER
- FD— FIRE DAMPER
- SB— SECURITY BARS

FIRE PROTECTION

- TT SIAMESE CONNECTIONS
- FE-X PORTABLE EXTINGUISHER WITH WALL BRACKET
- DI DOWNRIGHT SPRINKLER HEAD
- ⊗ UPRIGHT SPRINKLER HEAD
- ⊕ CORRECTIONAL FACILITY SPRINKLER HEAD

CONTROL

- ⊖ THERMOSTAT-ELECTRIC ROOM SENSOR
- OPPOSED BLADE MOTORISED DAMPER
- ~ CONTROL WIRING

MECHANICAL DRAWING LIST

- M000 DRAWINGS LIST AND LEGENDS
- M100 GROUND FLOOR - FIRE PROTECTION
- M200 GROUND FLOOR - PLUMBING
- M201 GROUND FLOOR - STORM DRAINAGE
- M300 GROUND FLOOR - HVAC
- M400 SCHEMATICS AND SCHEDULES
- M401 DETAILS
- M402 ROOF - MECHANICAL

plan-repère key plan

socebu stamp



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projet project

**BUILDING A
PROJECT**

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**DRAWINGS LIST
AND LEGENDS**

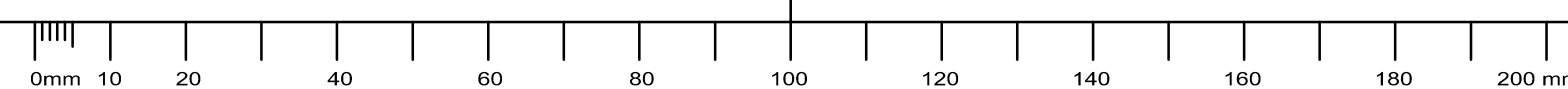
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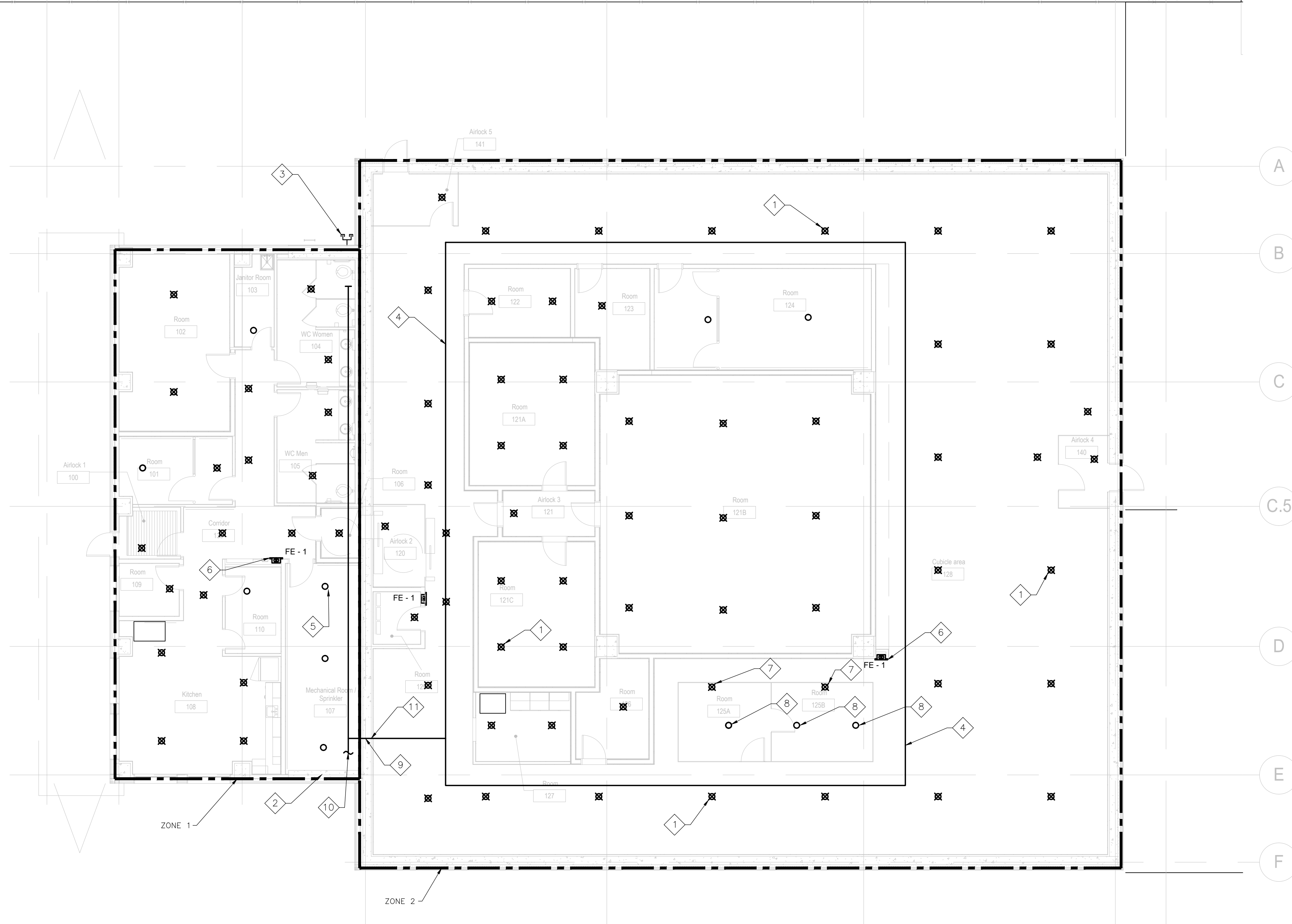
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1 FIRE PROTECTION
M100

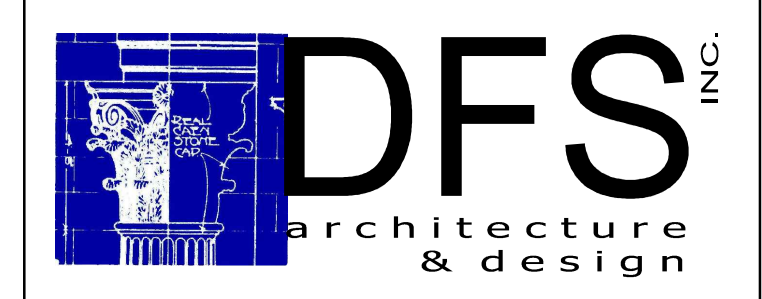
GENERAL NOTES

1. SPRINKLER SYSTEMS ARE TO BE INSTALLED IN ACCORDANCE WITH N.F.P.A. STANDARD 13 ORDINARY HAZARD.
2. HYDRAULICALLY DESIGN NEW SPRINKLER SYSTEM. ONLY LOCATIONS OF SPRINKLER MAINS SHOWN. PROVIDE ALL SPRINKLER PIPING AND HEADS AS REQUIRED TO MEET SPECIFICATIONS AND NFPA 14 INSTALLATION REQUIREMENTS.
3. ALL SPACES INSIDE GRID LINE 2 TO 5, A TO F ARE TO BE FED FROM THE CORE AREA. BRANCHES ARE NOT TO SERVE MORE THAN ONE INTERNAL CLOSED SPACE.
4. ALL PIPES CONNECTIONS ARE TO BE WELDED OR THREADED AS PER APPLICATION/CODE REQUIREMENTS.
3. ALL PENETRATIONS THROUGH GRID LINE 2 ARE TO BE GROUNDED. SEE ELECTRICAL DRAWINGS FOR GROUNDING DETAILS.
4. EXCEPT WHERE NOTED, KEEP ALL EQUIPMENT, PIPES, DUCTS ETC MIN 300 CLEAR OF PERIMETER WALLS AND WALL ALONG GRID LINE 2, EXCEPT AT PERPENDICULAR RUNS CROSSING THROUGH WALLS.
5. ALL PENETRATIONS ALONG GRID LINE 2 ARE TO HAVE DIELECTRIC BREAKS AND FOLLOW RF WALL PENETRATION DETAILS ON DRAWING M401. DIELECTRIC BREAKS MUST BE INSIDE GRID LINES 1 AND 2. DIELECTRIC BREAKS BETWEEN GRID 2 AND 5 ARE NOT PERMITTED.
6. CO-ORDINATE SPRINKLER PIPING WITH WORK OF ALL OTHER TRADES.
7. LOCATE SPRINKLER HEADS CENTER OF TILE +/- 150 mm FOR T-BAR CEILINGS, COORDINATE LOCATIONS WITH ARCHITECTURAL AND ELECTRICAL.
8. ALL SPRINKLER HEADS IN FINISHED SPACES ARE TO BE PENDANT HEADS, UNLESS OTHERWISE NOTED ON DRAWING.
9. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR BUILDING DETAILS.
10. LAYOUT, ROUTING AND LOCATIONS ARE INDICATIVE, CONTRACTOR IS TO VERIFY SITE CONDITIONS AND CO-ORDINATE INSTALLATION WITH ALL TRADES ON SITE.
11. PROVIDE WALL SLEEVES FOR ALL PIPING PENETRATIONS THROUGH WALL. CO-ORDINATE LOCATIONS WITH OTHER TRADES.
12. ALLOW FOR AN ADDITIONAL 10 SPRINKLER HEADS AROUND OBSTACLES CREATED BY EQUIPMENT AND DUCTWORK. VERIFY ALL DRAWINGS AND COORDINATE THE SPRINKLER LAYOUT WITH ALL TRADES. (TYPICAL.)
13. ALL PIPING MUST REMAIN 300 MM FROM EXTERIOR WALL OF SPACE 128.

REQUIREMENTS FOR PORTABLE FIRE EXTINGUISHERS APPROXIMATE BUILDING AREA. 1000 SQ.M - ORDINARY HAZARD, NFPA 10 CHAPTER 3 MINIMUM 14 'A' UNITS REQUIRED.
3A 10BC DRY CHEMICAL, 5.0 KG EXTINGUISHERS INSTALLED.

DRAWING NOTES

1. PENDANT RECESSED SPRINKLER HEAD IN FINISHED CEILING AREA. COORDINATE FINAL LOCATION WITH LIGHTING AND TEE BAR LAYOUT. (TYPICAL.)
2. WATER ENTRY ROOM. SEE DETAILS ON DRAWING M401.
3. SIAMESE CONNECTION. SEE DETAILS ON DRAWING M401
4. OUTLINE OF PREFERRED (SUGGESTED) LOCATION FOR SPRINKLER MAINS. CONTRACTOR TO PROVIDE SHOP DRAWINGS WITH PIPE LAYOUT FOR REVIEW. ALL SPACES INSIDE GRID LINE 2 TO 5, A TO F ARE TO BE FED FROM THE CORE AREA. BRANCHES ARE NOT TO SERVE MORE THAN ONE INTERNAL CLOSED SPACE. (TYPICAL.)
5. PROVIDE CAGES FOR SPRINKLER HEADS IN SPACE 107.
6. PROVIDE PORTABLE FIRE EXTINGUISHERS (FE-1) AND PORTABLE FIRE EXTINGUISHER. SEE SPECIFICATIONS FOR DETAILS.
7. SPRINKLERS ABOVE SPACES 125 AND 125B.
8. PROVIDE SPRINKLER PIPING ROUGH-IN FOR FUTURE SPRINKLERS. (PLACE T'S WITH CAP IN THE CEILING SPACE AT THE LOCATIONS INDICATED ON THE PLANS.
9. PROVIDE DIELECTRIC BREAKS ON ALL PENETRATIONS THROUGH THIS WALL (GRID LINE 2) TYPICAL. DIELECTRIC BREAKS MUST BE PROVIDED BETWEEN GRID LINE 1 AND 2 ONLY. THERE ARE TO BE NO DIELECTRIC BREAKS BETWEEN GRID 2 AND 5. SEE SPECIFIC PENETRATION CONSTRUCTION DETAILS ON DRAWING M401.
10. PROVIDE DOUBLE INTERLOCK PRE-ACTION SYSTEM AND ALL ASSOCIATED EQUIPMENT TO SERVE ZONE 1 AND 2. SEE DETAIL ON DRAWING M401 AND REFER TO SPECIFICATION.
11. PROVIDE HONEYCOMB WAVEGUIDE INSIDE OF PIPE. ALL PENETRATIONS THROUGH RF WALL AT GRID 2 TO BE AS PER PENETRATION DETAILS ON DRAWING M401 C/W DIELECTRIC BREAK. PROVIDE WAVEGUIDE FILTER AS REQUIRED.

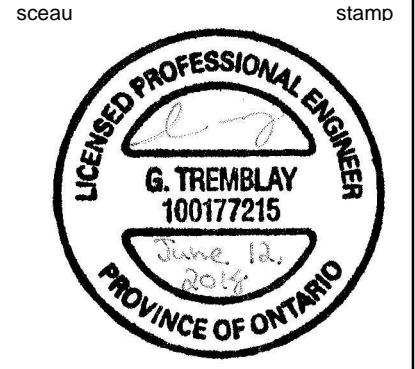


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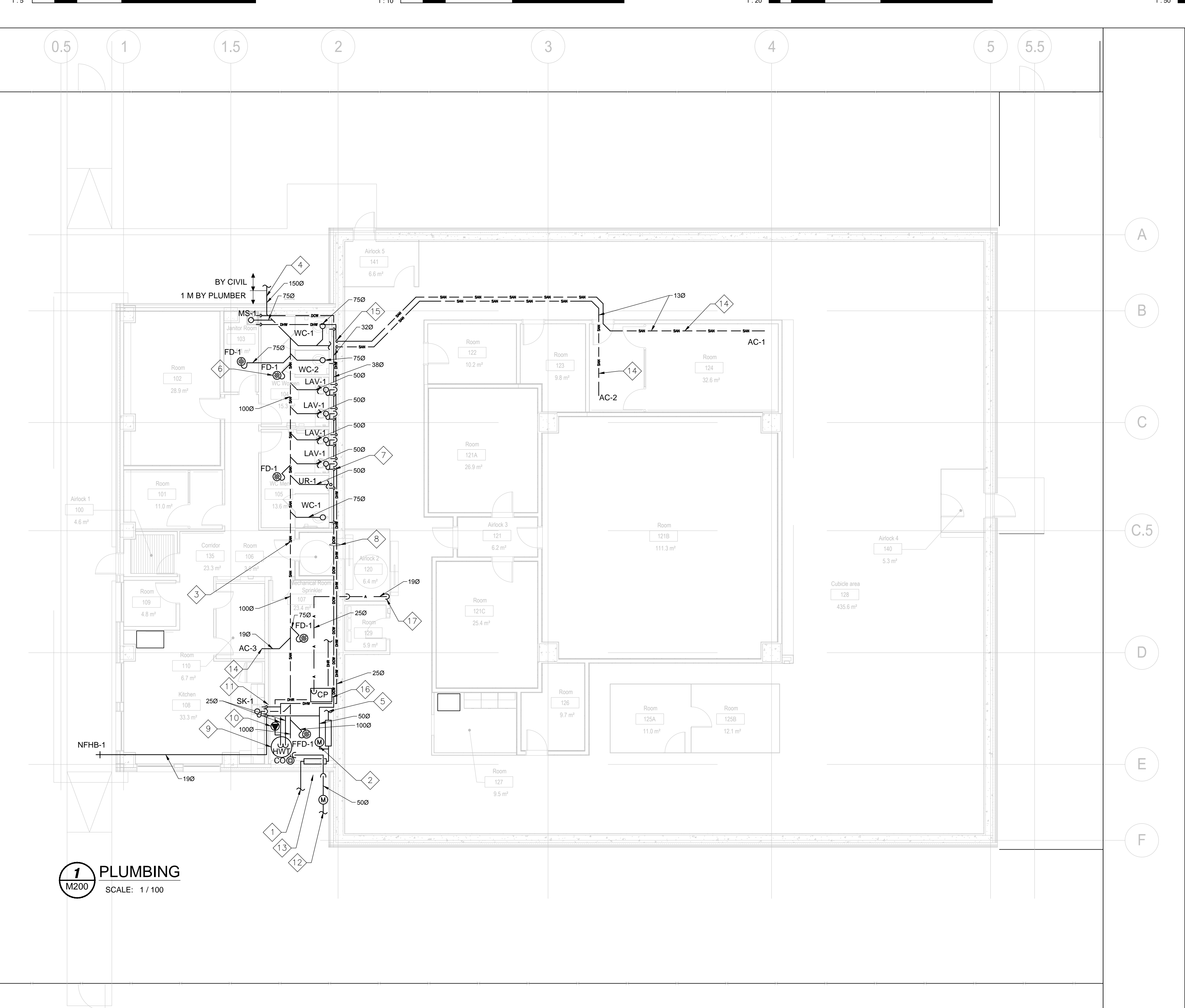
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BUILDING A PROJECT

dessin drawing
GROUND FLOOR FIRE PROTECTION

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1 PLUMBING
M200 SCALE: 1/100

TAG	D.C.W	D.H.W	SAN.	VENT	NOTES
LAV-1	13	13	32	31	BARRIER FREE LAVATORY
WC-1	19	-	75	38	WATER CLOSET
UR-1	19	-	38	32	BARRIER FREE URINAL
KS-1	13	13	38	32	KITCHEN SINK
CM	13	-	-	32	COFFEE MACHINE (MACHINE BY CLIENT)
MS-1	19	19	75	38	JANITOR MOP SINK
FD-1	TRAP SEAL PRIMER	-	75	38	FLOOR DRAIN
FFD-1	TRAP SEAL PRIMER	-	100	38	FUNNEL FLOOR DRAIN
NFHB-1	19	-	-	-	NON-FREEZE HOSE BIB

GENERAL NOTES

- ALL SPACES INSIDE GRID LINE 2 TO 5, A TO F ARE TO BE FED FROM THE CORE AREA. BRANCHES ARE NOT TO SERVE MORE THAN ONE INTERNAL CLOSED SPACE.
- ALL PIPES CONNECTIONS ARE TO BE WELDED OR THREADED AS PER APPLICATION/CODE REQUIREMENTS.
- ALL PENETRATIONS THROUGH GRID LINE 2 ARE TO BE GROUNDED, SEE ELECTRICAL DRAWINGS FOR GROUNDING DETAILS.
- EXCEPT WHERE NOTED, KEEP ALL EQUIPMENT, PIPES, DUCTS ETC MIN 300 CLEAR OF PERIMETER WALLS AND WALL ALONG GRID LINE 2, EXCEPT AT PERPENDICULAR RUNS CROSSING THROUGH WALLS.
- ALL PENETRATIONS ALONG GRID LINE 2 ARE TO HAVE DIELECTRIC BREAKS AND FOLLOW PENETRATION DETAILS ON DRAWING M401 FOR RF SHIELDING. DIELECTRIC BREAKS MUST BE INSIDE GRID LINES 1 AND 2. DIELECTRIC BREAKS BETWEEN GRID 2 AND 5 ARE NOT PERMITTED.
- COORDINATE PIPING LAYOUT WITH WORK OF ALL OTHER TRADES.
- REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR BUILDING DETAILS.
- LAYOUT, ROUTING AND LOCATIONS ARE INDICATIVE, CONTRACTOR IS TO VERIFY SITE CONDITIONS AND CO-ORDINATE INSTALLATION WITH ALL TRADES ON SITE.
- PROVIDE WALL SLEEVES FOR ALL PIPING PENETRATIONS THROUGH WALL. CO-ORDINATION LOCATION WITH OTHER TRADES.
- EXACT LOCATIONS AND INSTALLATION OF WALL HYDRANTS ARE TO BE CO-ORDINATED ON SITE AND APPROVED BY ENGINEER.
- PROVIDE BALL SHUT-OFF VALVES FOR ALL PLUMBING EQUIPMENT.
- REFER TO THE ARCHITECTURAL DRAWINGS FOR CEILING FINISH AND STRUCTURE. HIDE THE WATER PIPES IN THE STRUCTURE OF THE WALLS OR ABOVE THE CEILING. PIPES SHOULD NOT BE VISIBLE. (TYPICAL.)
- FOR DRAWING CLARITY PLUMBING VENT PIPING AND ACCESSORIES ARE NOT SHOWN. INSTALLATION OF VENT PIPE AND PLUMBING DEVICES MUST COMPLY WITH THE REQUIREMENTS OF THE CODE.
- REFER TO SCHEMATIC DIAGRAM FOR MORE DETAILS.
- PROVIDE CLEANOUTS AT EVERY CHANGE OF DIRECTION AND MINIMUM EVERY 15 METERS OF PIPE LENGTH FOR SANITARY DRAIN SYSTEM.
- PROVIDE PROPER CONSTRUCTION METHODS AND PRODUCTS TO ENSURE STC LEVELS INDICATED ON ARCHITECTURAL PLANS ARE ACHIEVED. COORDINATION ALL WORK WITH RESPECTIVE TRADES TO ENSURE STC RATINGS ARE RESPECTED.
- CLEANOUTS NOT SHOWN FOR CLARITY OF DRAWINGS. CONTRACTOR TO PROVIDE CLEANOUTS AS REQUIRED BY CODE.
- ALL PIPING MUST REMAIN 300 MM FROM EXTERIOR WALL OF SPACE 128.

DRAWING NOTES

- 2000 MM INCOMING WATER SERVICE. INCOMING WATER SERVICE. CO-ORDINATE LOCATION, AND PIPE INVERT WITH GENERAL CONTRACTOR. CONNECT TO THE FLANGED PIPE END INSIDE THE ROOM. PROVIDE PIPE TAKE-OFF FOR SPRINKLER SYSTEM. PROVIDE NEW PRESSURE REDUCER AND ANTI-SIPHON VALVE (TYPICAL) SEE 1/M400. CONTRACTOR TO PROVIDE BACKFLOW PREVENTER C/W EXPANSION TANK TO COMPLY WITH CSA B64.10-2017.
- INSTALL METER ACCORDING TO THE ENGINEER STANDARDS. PROVIDE CONDUIT AND WIRING FOR REMOTE READOUT STATION. FINAL LOCATION AS SITE DIRECTED.
- EXTEND SANITARY DRAIN PIPING AND CONNECT TO BUILDING'S MAIN DRAIN DISCHARGE PIPE. REVIEW SITE SERVICES DRAWINGS. CO-ORDINATE FINAL LOCATION, SIZE AND PIPE INVERT WITH GENERAL CONTRACTOR PRIOR TO PIPE INSTALLATION. (TYPICAL)
- APPROXIMATE CONNECTION TO MAIN SANITARY SEWER DRAIN PIPE. EXTEND SEWER PIPE 1.0m PASSED THE BUILDING WALLS. PROVIDE TRANSITION TO 200mm DIAMETER PIPE. COORDINATE FINAL LOCATION WITH GENERAL CONTRACTOR. (TYPICAL)
- TO SPRINKLER SYSTEM, REFER TO SCHEMATIC ON DRAWING M400.
- PROVIDE PRIMER LINE FOR EACH FLOOR DRAIN. (TYPICAL)
- PROVIDE TRAP SEAL PRIMER UNDER SINK AND EXTEND TUBING TO FLOOR DRAIN LOCATION OF TRAP SEAL PRIMERS IS SHOWN AS GENERAL INFORMATION ONLY. CONTRACTOR SHALL INSTALL TSP AT CLOSEST FIXTURE TO EACH FLOOR DRAIN. (TYPICAL)
- AS REQUIRED BY THE NATIONAL PLUMBING CODE 2005 PARAGRAPH 2.6.1.9 PROVIDE WATER HAMMER ARRESTORS ON HOT AND COLD WATER LINES SERVING GROUP OF PLUMBING FIXTURES. (12 LOCATIONS MINIMUM).
- NATURAL GAS HOT WATER HEATER.
- RECIRCULATION PUMP AND ACCESSORIES FOR DOMESTIC HOT WATER SYSTEM.
- PROVIDE ROUGH-INS FOR COFFEE MACHINE (MACHINE PROVIDED BY CLIENT).
- PROVIDE NEW NATURAL GAS FEED COMPLETE WITH NEW METER AT 7' W.C. COORDINATE WITH ENBRIDGE AND PAY ALL COSTS.
- GAS TO DOMESTIC HOT WATER HEATER AND UP TO ROOF FOR ROOFTOP UNITS.
- PUMPED CONDENSATE UNDER THE RAISED FLOOR INSTALLED ABOVE THE SLAB FROM AC-1 AND AC-2. PIPING TO BE CONTINUOUS RUN WITH NO JOINTS
- CONDENSATE PIPES FROM AC UNIT FFD'S TO MAIN SANITARY. PENETRATION THROUGH RF WALL AT GRID 2 TO BE AS PER PENETRATION DETAILS ON DRAWING M401 C/W DIELECTRIC BREAK. PROVIDE FILTER AS REQUIRED.
- PROVIDE NEW SHP COMPRESSOR COMPLETE WITH PRE-FILTER, HI TEMPERATURE REFRIGE DRYER, CANISTER, ELEMENT, VIBRATION PADS AND ALL ASSOCIATED SYSTEMS. SEE SCHEDULE FOR ADDITIONAL DETAILS.
- COMPRESSED AIR PIPING FOR SLIDING DOORS, ALL PENETRATIONS THROUGH RF WALL AT GRID 2 TO BE AS PER PENETRATION DETAILS ON DRAWING M401 C/W DIELECTRIC BREAK. PROVIDE FILTER AS REQUIRED.

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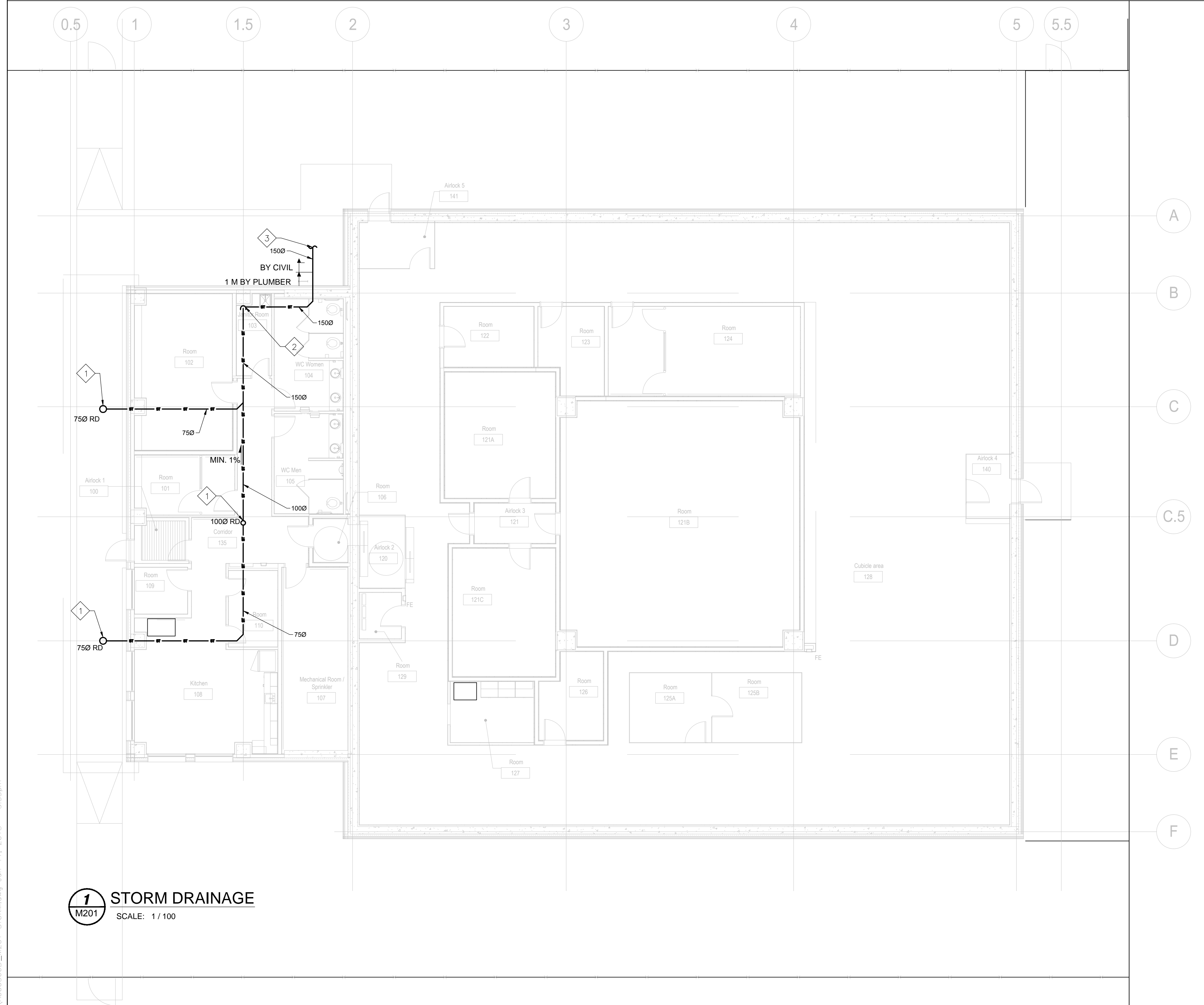
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BUILDING A PROJECT

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GROUND FLOOR PLUMBING

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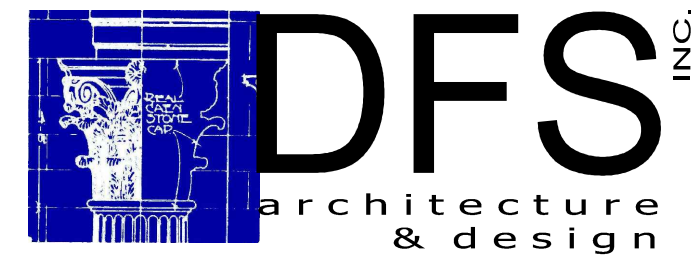


GENERAL NOTES

1. CO-ORDINATE PIPING LAYOUT WITH WORK OF ALL OTHER TRADES.
2. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR BUILDING DETAILS.
3. LAYOUT, ROUTING AND LOCATIONS ARE INDICATIVE, CONTRACTOR IS TO VERIFY SITE CONDITIONS AND CO-ORDINATE INSTALLATION WITH ALL TRADES ON SITE.
4. PROVIDE WALL SLEEVES FOR ALL PIPING PENETRATIONS THROUGH WALL. CO-ORDINATION LOCATION WITH OTHER TRADES.
5. REFER TO THE ARCHITECTURAL DRAWINGS FOR CEILING FINISH AND STRUCTURE. HIDE THE WATER PIPES IN THE STRUCTURE OF THE WALLS OR ABOVE THE CEILING. PIPES SHOULD NOT BE VISIBLE. (TYPICAL.)
6. CLEANOUTS NOT SHOWN FOR CLARITY OF DRAWINGS. CONTRACTOR TO PROVIDE CLEANOUTS AS REQUIRED BY CODE.

DRAWING NOTES

1. APPROXIMATE LOCATION OF ROOF DRAIN ON ROOF AND ROOF DRAIN OUTLET TO STORM SYSTEM. SEE ARCHITECTURAL DRAWINGS FOR INSTALLATION AND CONNECTION DETAILS. CONNECT RAIN WATER DRAIN PIPE TO THE ROOF DRAIN OUTLET. (TYPICAL.)
2. UNDERSLAB RAIN WATER LEADER.
3. APPROXIMATE CONNECTION TO MAIN STORM DRAIN DOWN TO UNDERSLAB. EXTEND BUILDING STORM LINE 1.0 M PASS BUILDING WALLS. PROVIDE TRANSITION TO 1500 mm PIPE. COORDINATE FINAL CONNECTION WITH GENERAL CONTRACTOR. (TYPICAL.)



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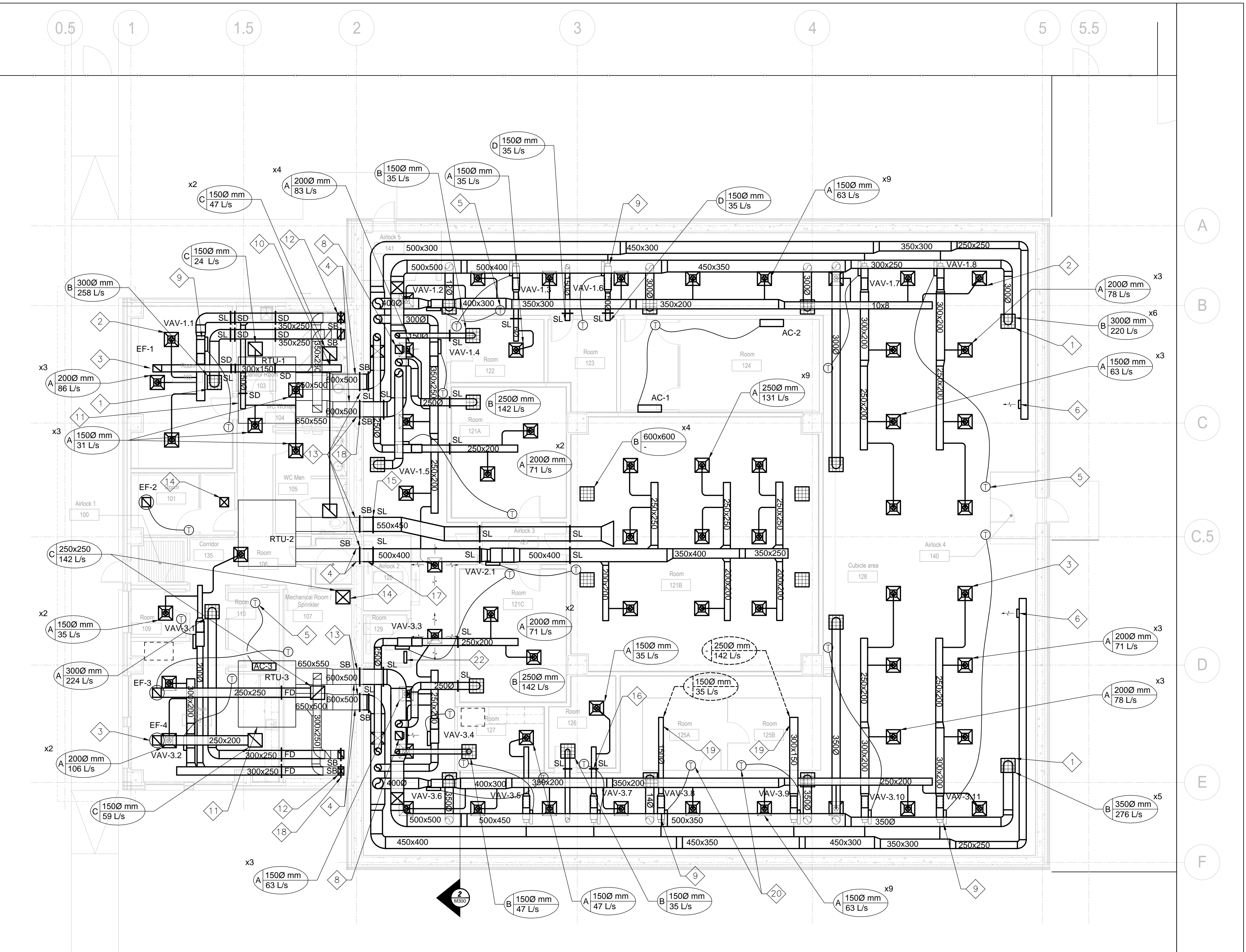
GROUND FLOOR STORM DRAINAGE

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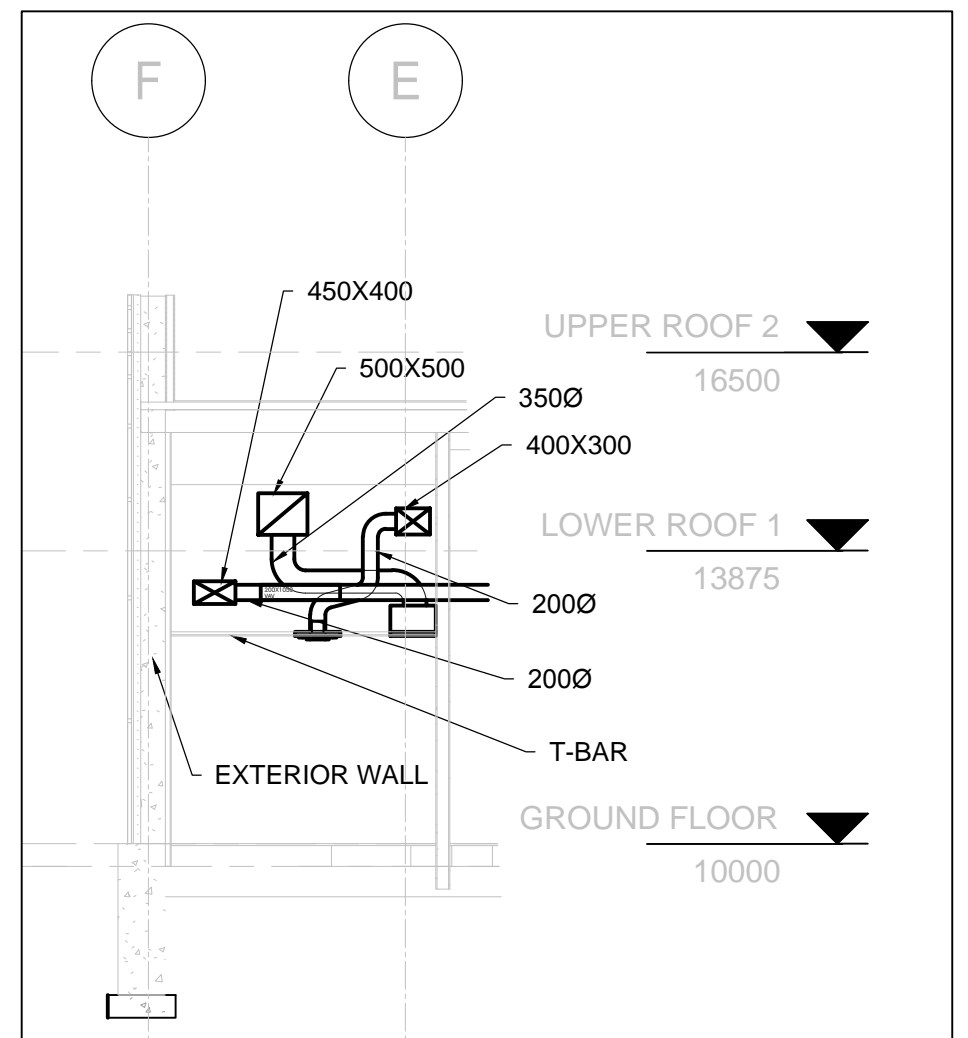
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M201

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1 HVAC
M300 SCALE: 1/100



2 PARTIAL SECTION
M300 SCALE: 1/100

GENERAL NOTES

- CO-ORDINATE PIPING LAYOUT WITH WORK OF ALL OTHER TRADES.
- REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR BUILDING DETAILS.
- LAYOUT, ROUTING AND LOCATIONS ARE INDICATIVE. CONTRACTOR IS TO VERIFY SITE CONDITIONS AND CO-ORDINATE INSTALLATION WITH ALL TRADES ON SITE.
- PROVIDE WALL SLEEVES FOR ALL DUCTWORK AND PIPING PENETRATIONS THROUGH WALL. CO-ORDINATION LOCATION WITH OTHER TRADES.
- PROVIDE ACOUSTIC LINING AND THERMAL INSULATION ON ALL SUPPLY AND RETURN MAINS, BRANCHES AND FLEX DUCTWORK.
- REVIEW ARCHITECTURAL DRAWINGS FOR CEILING, WINDOWS AND STRUCTURE TYPE AND ELEVATIONS. KEEP HVAC COMPONENTS CONCEALED AS MUCH AS POSSIBLE. PAY EXTRA ATTENTION TO WORKMANSHIP AND FINISHES OF ALL EXPOSED COMPONENTS. (TYPICAL)
- PROVIDE BALANCING DAMPERS ON ALL SUPPLY AND RETURN BRANCHES.
- ALL DUCTWORK PENETRATIONS THROUGH GRIDLINE 2 MUST INCLUDE SECURITY BARS DIELECTRIC BREAK, GROUND AND HONEYCOMB FITTING. SEE DETAILS ON DRAWING M401 FOR FURTHER INFORMATION. MUST HAVE 15 CM OF NONCONDUCTIVE SECTION LOCATED AT THE INTERIOR PERIMETER OF THE SECURE WALLED AREA.
- REFER TO SCHEMATIC FOR BALANCING INFORMATION.
- PROVIDE PROPER CONSTRUCTION METHODS AND PRODUCTS TO ENSURE STC LEVELS INDICATED ON ARCHITECTURAL PLANS ARE ACHIEVED. COORDINATION ALL WORK WITH RESPECTIVE TRADES TO ENSURE STC RATINGS ARE RESPECTED.
- ALL DUCTS PARALLEL TO THE EXTERIOR WALLS OF SPACE 128 MUST REMAIN 300 MM FROM THE EXTERIOR WALL.
- ALLOW FOR 10 ADDITIONAL DUCT OFFSETS.

DRAWING NOTES

- PROVIDE 600x600 RETURN AIR GRILLE WITH ACOUSTICALLY LINED BOOTH. INSTALL GRILLE TO AVOID CONFLICT WITH OTHER SERVICES. TYPICAL. SEE SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL DETAIL.
- PROVIDE 600x600 SUPPLY AIR DIFFUSER. INSTALL GRILLE TO AVOID CONFLICT WITH OTHER SERVICES. (TYPICAL). SEE SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL DETAIL.
- PROVIDE NEW EXHAUST FAN ON ROOF COMPLETE WITH NEW DUCTWORK. CO-ORDINATE FINAL LOCATION WITH GENERAL CONTRACTOR. MAINTAIN MINIMUM DISTANCES FROM FRESH AIR INTAKES AS REQUIRED BY CODE.
- PROVIDE SECURITY BARS FOR DUCTWORK SEE DETAIL ON DRAWING M401 FOR MORE INFORMATION. (TYPICAL).
- PROVIDE PROGRAMMABLE THERMOSTATS AS SHOWN. CONNECT TO EQUIPMENT AND EMCS.
- 236 L/S SUPPLY AIR INSIDE CEILING SPACE.
- 236 L/S RETURN AIR INSIDE CEILING SPACE.
- PROVIDE SPLIT AC UNIT COMPLETE WITH REFRIGERATION PIPING FROM EVAPORATOR TO CONDENSER. SEE SCHEDULE FOR UNIT DETAILS. TYPICAL.
- PROVIDE VAV BOXES SEE SCHEDULE FOR BOX DETAILS. TYPICAL.
- ALL BRANCHES FOR EF-1 TO INCLUDE BACKDRAFT DAMPERS. TYPICAL.
- PROVIDE ROOFTOP UNITS ON ROOF COMPLETE WITH CUSTOM CURB FOR HORIZONTAL DISCHARGE. ROOFTOP UNIT TO HAVE SUPPLY AND RETURN FANS C/W VFD. ALL EXPOSED DUCTWORK ON ROOF TO BE INSULATED WITH WEATHER PROOF MATERIAL. SEE SCHEDULE SPECIFICATIONS FOR ADDITIONAL DETAILS.
- SUPPLY AND RETURN DUCTWORK THROUGH DOG HOUSE TO CEILING SPACE. TYPICAL. SEE ARCHITECTURAL FOR DOG HOUSE DETAILS.
- SUPPLY AND RETURN DUCTWORK THROUGH WALL INTO CEILING SPACE. ALL DUCTWORK PENETRATIONS THROUGH GRID 2 MUST INCLUDE SECURITY BARS DIELECTRIC BREAK AND WAVEGUIDE. SEE DETAILS FOR FURTHER INFORMATION. TYPICAL.
- AIR INTAKE FROM ROOM COMPLETE WITH MOTORIZED DAMPER TIED TO THERMOSTAT. PROVIDE PROPER WEATHER PROOFING AND GOOSENECK FITTING COMPLETE WITH BIRD SCREEN.
- PROVIDE SILENCERS THROUGH ACOUSTICALLY RATED BULKHEAD. SEE SCHEDULE FOR SILENCER DETAILS. (TYPICAL FOR ALL ROOFTOP UNIT DUCTWORK PENETRATIONS THROUGH WALL AT GRIDLINE 2). REFER TO ARCHITECTURAL DOCUMENTS FOR ADDITIONAL DETAILS ON BULKHEAD AND STC RATINGS. REFER TO ARCHITECTURAL DOCUMENTS FOR PENETRATION DETAILS FOR STC PARTITIONS. COORDINATE WORK WITH GENERAL TO ENSURE STC LEVEL IS ACHIEVED. TYPICAL.
- DUCTS PENETRATING THE WALL AT GRIDLINE 2 MUST HAVE INSPECTION PORTS LOCATED WITHIN SPACE 128.
- PROVIDE STEEL BARS AS PER DETAIL ON DRAWING M401. COORDINATE INSTALLATION WITH GENERAL AND MAINTAIN APPROPRIATE SOUND DAMPENING LEVELS AS PER WALL CONSTRUCTION REQUIREMENTS ON ARCHITECTURAL DOCUMENTS. TYPICAL.
- DUCTWORK TO BE CAPPED IN CEILING FOR FUTURE SPACE. FLOWS ARE SHOWN FOR INFORMATION.
- ENCLOSURE TO BE SUPPLIED WITH RETURN AIR GRILLE FOR EACH SPACE.
- CONTROL WIRING FOR THERMOSTAT TO BE CONVERTED/FILTERED ON BOTH SIDES. SEE ELECTRICAL DRAWINGS FOR TYPICAL FILTER DETAILS. CONTRACTOR TO SUPPLY SHOP DRAWINGS FOR REVIEW.
- SUGGESTED LOCATION OF ANCILLARY CONTROLS PANEL. ALL CONTROL POINTS FROM GRIDLINE 2 TO GRIDLINE 5 TO BE WIRED TO THIS PANEL. SIGNALS OUT OF THE PANEL ARE TO BE CONVERTED/FILTERED AND FED THROUGH THE WALL AT GRIDLINE 2 TO THE MAIN PANEL INSIDE THE MECHANICAL ROOM WHICH WILL BE FILTERED/CONVERTED BEFORE CONNECTING. SIMILARLY ALL FEEDS COMING FROM MAIN PANEL TO ANCILLARY PANEL ARE TO BE CONVERTED/FILTERED. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL DETAILS ON FILTERS/CONVERSIONS. MECHANICAL CONTRACTOR TO PROVIDE AND PAY FOR ALL COSTS OF WIRING THESE COMPONENTS.

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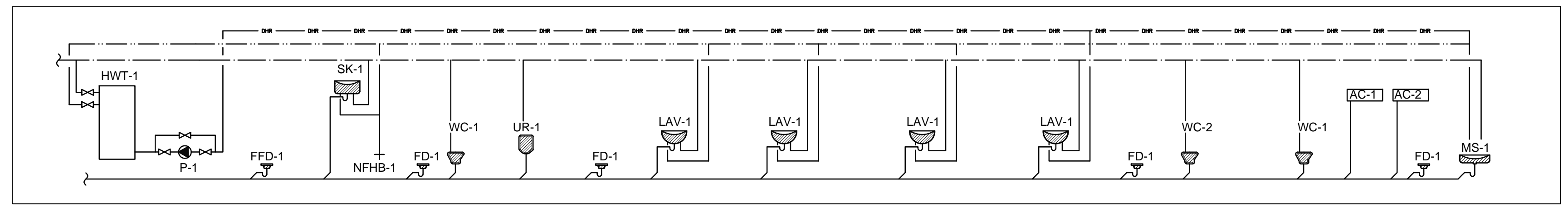
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projet project

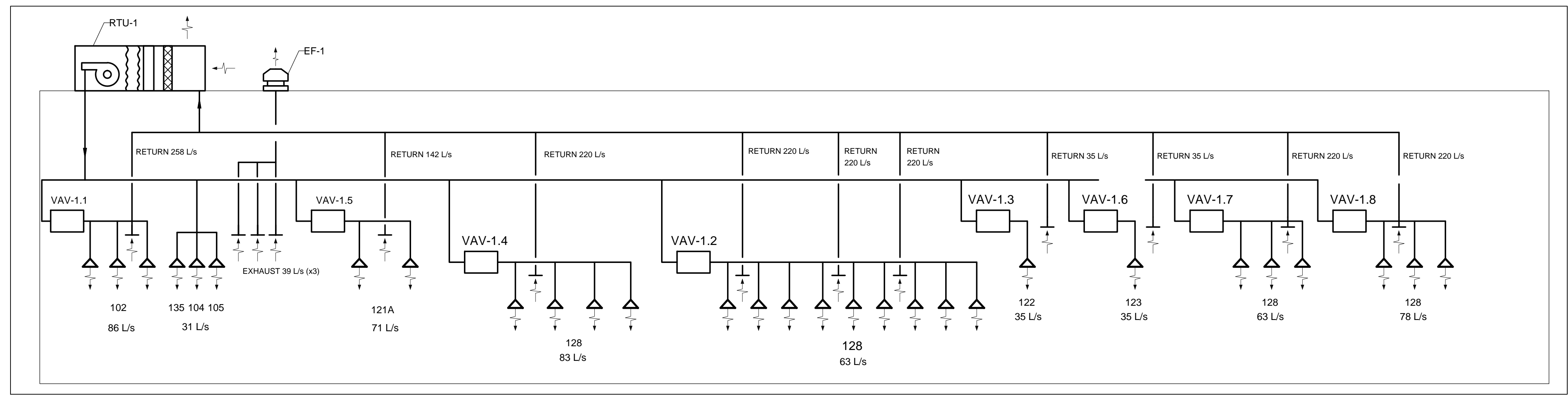
BUILDING A PROJECT

drawing		
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dessiné GT	drawn fichier DAO	CAD file
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M300		

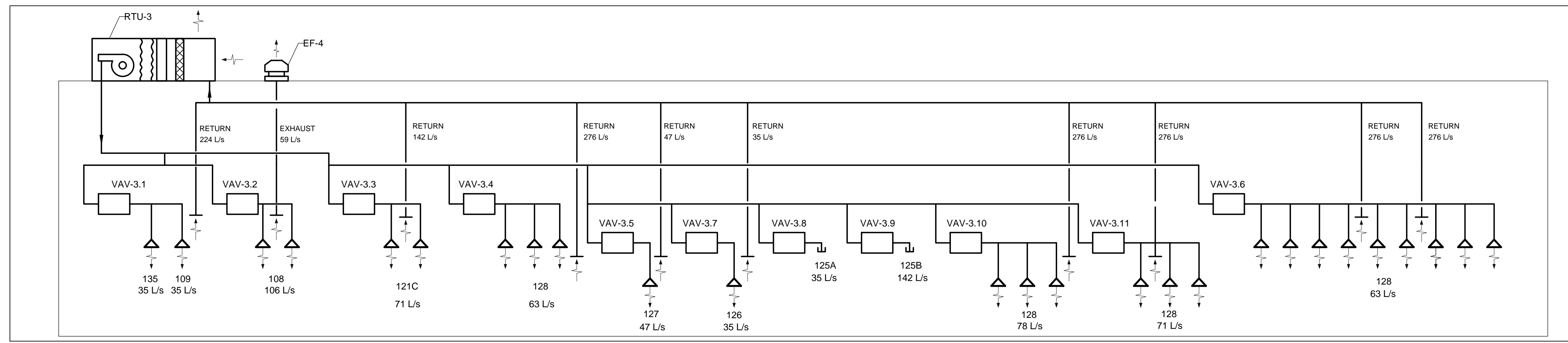
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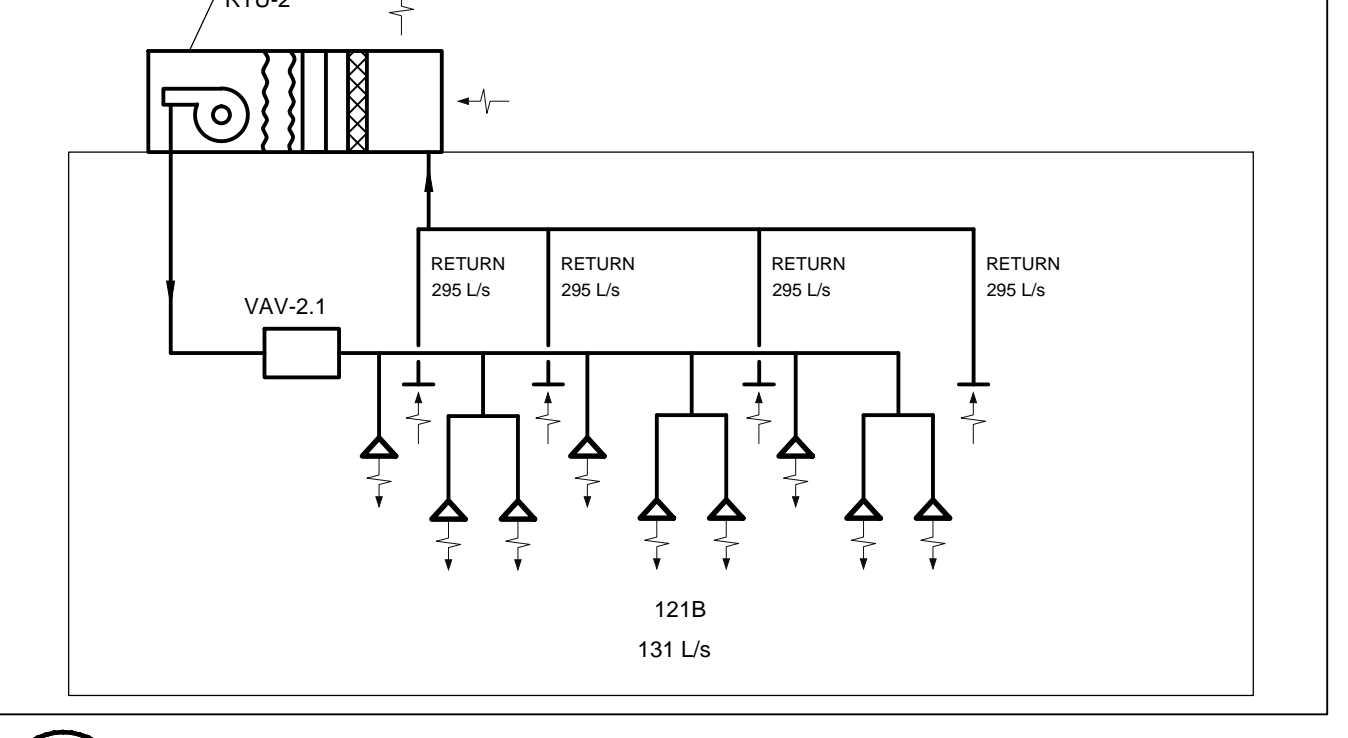
1 PLUMBING SCHEMATIC
SCALE: NTS



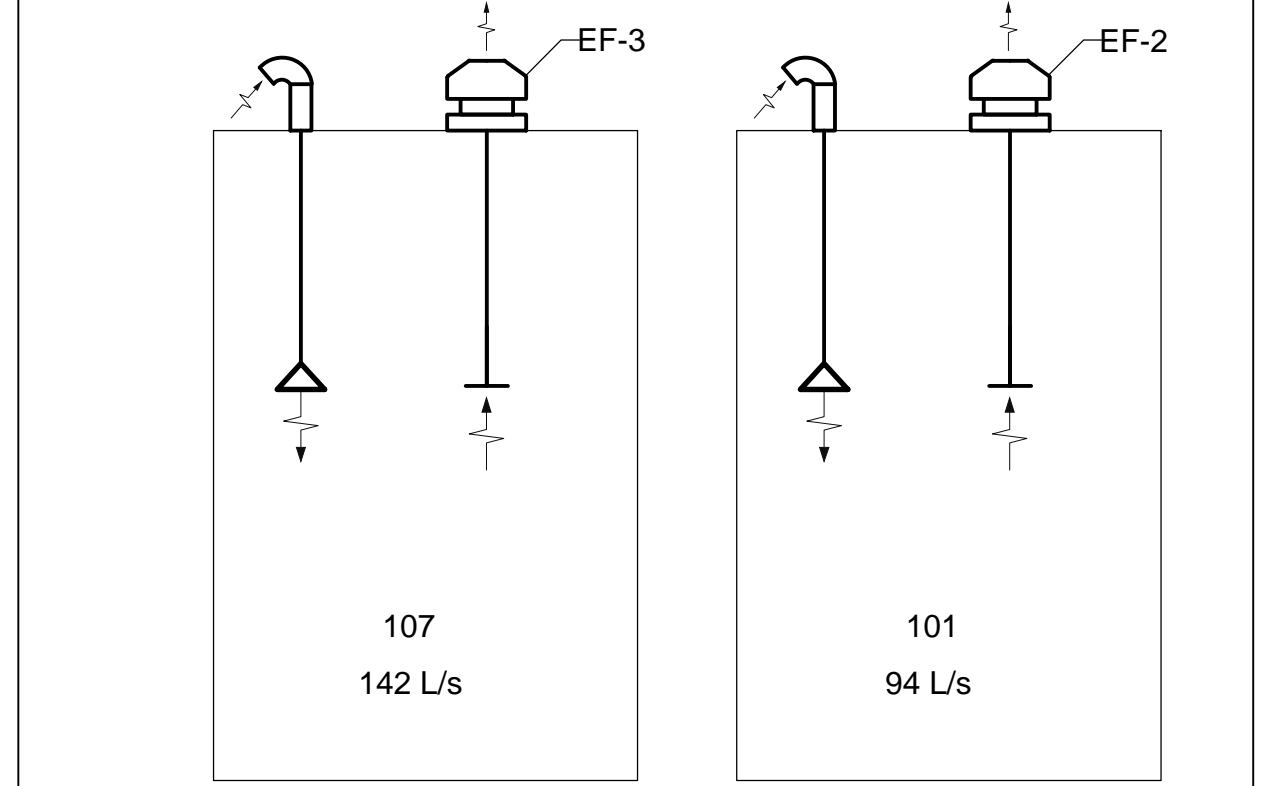
2 HVAC SCHEMATIC RTU-1
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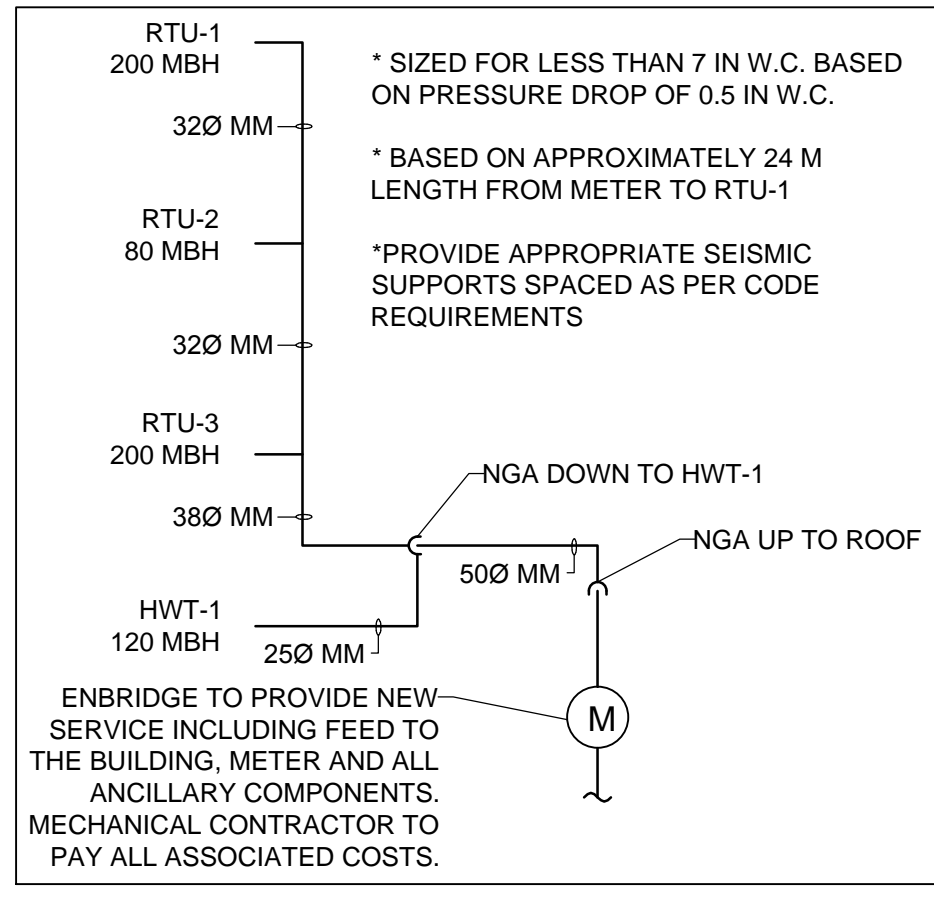
3 HVAC SCHEMATIC RTU-3
SCALE: NTS



4 HVAC SCHEMATIC RTU-2
SCALE: NTS



5 HVAC SCHEMATIC ROOM 117
SCALE: NTS



6 NATURAL GAS PIPING SCHEMATIC
SCALE: NTS

EVAPORATOR SCHEDULE										CONDENSER SCHEDULE				
TAG	LOCATION	FLOW L/S	MAX. COOLING CAPACITY (KW)	SEER	ELECTRICAL L	MCA	REFRIGERANT	NOTES	TAG	MCA	ELEC. SERVICE	SERVICE	NOTES	
AC-1 & AC-2 & AC-3	124 & 110	161-174-200	7	15.3	208/60/1	1	R-410A	3 4 CU-1.2.3 12.5	208/60/1	AC-1			1.2	

1. VARIABLE COMPRESSOR SPEED INVERTER TECHNOLOGY COMPLETE WITH ULTRA LOW CABINET COOLING KIT (OUTDOOR INTAKE AIR TEMP = -40°C). 115V CONDENSATE PUMP (15W) COMPLETE WITH ELECTRONIC WATER LEVEL SENSOR INSTALLED WITHIN AC.
2. UNIT TO BE INSTALLED ON ROOF AS PER MANUFACTURERS INSTRUCTION TO ACHIEVE PROPER OPERATION.
3. AC TO COME WITH MINI CONDENSATE PUMP (0.05 L/S @ 77.7 kPa) LOCATED WITHIN HOUSING. CONDENSATE TO BE CONNECTED TO SANITARY DRAIN ON 1 LENGTH OF PIPE.

EXHAUST FAN SCHEDULE									
TAG	FUNCTION	LOCATION	TYPE	FLOW L/s	EXT. STATIC PRESSURE Pa	MOTOR	ELECTRICAL	NOTES	
EF-1	ROOM 103, 104 & 105	ROOF	DIRECT DRIVE CENTRIFUGAL CABINET FAN	118	62	1/30 HP	115V/1/0/60HZ	C/W ROOF CURB, BDD, FAN MOUNTED SOLID STATE SPEED CONTROL, INTERLOCK WITH OCCUPANCY SENSOR WITH TIME DELAY	
EF-2	ROOM 101	ROOF	DIRECT DRIVE CENTRIFUGAL CABINET FAN	94	62	1/10 HP	115V/1/0/60HZ	C/W ROOF CURB, BDD, FAN MOUNTED SOLID STATE SPEED CONTROL, INTERLOCK WITH THERMOSTAT	
EF-3	ROOM 107	ROOF	DIRECT DRIVE CENTRIFUGAL CABINET FAN	142	62	1/10 HP	115V/1/0/60HZ	C/W ROOF CURB, BDD, FAN MOUNTED SOLID STATE SPEED CONTROL, INTERLOCK WITH THERMOSTAT	
EF-4	ROOM 108	ROOF	DIRECT DRIVE CENTRIFUGAL CABINET FAN	59	62	1/60 HP	115V/1/0/60HZ	C/W WALL CAP, BDD, TIED TO EMSC SCHEDULE	

ROOF TOP UNIT SCHEDULE																
TAG	SUPPLY AIR FAN			COOLING AT OA T 29 C			HEATING @ ΔT			ELECTRICAL			REFRIGERANT	APX WEIGHT	NOTES	MODEL (OR APPROVED EQUIVALENT)
	FLOW SA (L/s)	OA (L/s)	MOTOR	EXT. STATIC PRESSURE	CAP. TOTAL KW	SEER	KW	VOLTAGE	MCA	MOP						
RTU-1	2124	318	4 HP	500 Pa	36	12	46.9	575-3-60	19.3	25	R-410A	2857	1.2,3,4,5	DPS010A		
RTU-2	1180	177	1.3 HP	500 Pa	18	12.8	18.8	208-3-60	30.2	40	R-410A	1487	1.2,3,4,5	DPS005A		
RTU-3	2124	318	4 HP	500 Pa	36	12	46.9	575-3-60	19.3	25	R-410A	2857	1.2,3,4,5	DPS010A		

1. COMPLETE WITH CUSTOM FABRICATED ROOF CURB FOR HORIZONTAL DISCHARGE
2. COMPLETE RETURN AIR FAN AT 250 Pa ESP. SUPPLY AND RETURN AIR FANS TO BE COMPLETE WITH VFD'S
3. COMPLETE WITH ECONOMIZER
4. REVIEW ARCHITECTURAL DRAWINGS AND LOCATION ON SLOPED ROOF PROVIDE CURB ADAPTOR TO MAINTAIN UNIT LEVEL INSTALLATION
5. NATURAL GAS HEATING

VAV BOXES SCHEDULE				
TAG	SERVICES SPACE	FLOW	SIZE	NOTE
VAV-1.1	102	258	8	1
VAV-1.2	128	567	10	1
VAV-1.3	122	35	6	1
VAV-1.4	128	332	7	1
VAV-1.5	121A	142	6	1
VAV-1.6	123	35	6	1
VAV-1.7	128	189	6	1
VAV-1.8	128	234	7	1
VAV-2.1	121B	1179	12	1
VAV-3.1	109/135	70	6	1
VAV-3.2	108	212	6	1
VAV-3.3	121C	142	6	1
VAV-3.4	128	189	6	1
VAV-3.5	127	47	6	1
VAV-3.6	128	567	10	1
VAV-3.7	126	35	6	1
VAV-3.8	Future 125A	35	6	1
VAV-3.9	Future 125B	142	6	1
VAV-3.10	128	234	7	1
VAV-3.11	128	213	7	1

1. COMPLETE WITH ACTUATOR AND HEATING/COOLING WITH AUTOMATIC CHANGEOVER AND AUX HEAT CONTROL PACKAGE

PLUMBING ACCESSORIES LIST					
TAG	D.C.W	D.H.W	SAN.	VENT	NOTES
LAV-1	13	13	32	31	BARRIER FREE LAVATORY
WC-1	19	-	75	38	WATER CLOSET
UR-1	19	-	38	32	BARRIER FREE URINAL
KS-1	13	-	38	32	KITCHEN SINK
CM	13	-	32	32	COFFEE MACHINE (MACHINE BY CLIENT)
MS-1	19	19	100	38	JANITOR MOP SINK
FD-1	TRAP SEAL PRIMER	-	75	38	FLOOR DRAIN
FFD-1	TRAP SEAL PRIMER	-	75	38	FLOOR DRAIN FOR PRISONERS
NFHB-1	19	-	-	-	NON-FREEZE HOSE BIB

DIFFUSER SCHEDULE				
TAG	DESCRIPTION	SIZE	FLOW	MODEL (OR EQUIVALENT)
A	SQUARE CONE	AS SHOWN ON DRAWINGS	AS SHOWN ON DRAWINGS	E.H. PRICE SCD
B	SQUARE RETURN	AS SHOWN ON DRAWINGS	AS SHOWN ON DRAWINGS	E.H. PRICE 80

RECIRCULATION PUMP SCHEDULE									
TAG	DESCRIPTION	FLOW L/S	FLUID TEMP.	TR/MIN	PRESSURE Pa	FLUID	MOTOR (W)	ELECTRICAL	TYPE
P-1	HOT WATER RECIRCULATION	1	82	1800	6.1	HOT WATER	186	1201/60	IN LINE

COMPRESSOR SCHEDULE							
TAG	MODEL	CAPACITY	HP	PRESSURE	ELECTRICAL	FLA	NOTES
CP	TAPV-5052 OR APPROVED EQUIVALENT	303 L	3.7 KW (5 HP)	1034 Kpa	575/3/60	5.3	C/W DF65C CANISTER, DF65A ELEMENT, HTD18 DRYER, DF65C CANISTER, FD65P ELEMENT, UDH-6700-K4 VIBRATION PAD OR APPROVED EQUIVALENT

HOT WATER HEATER				
TAG	CAPACITY	INPUT	EFFICIENCY	MODEL (OR EQUIVALENT)
HWT-1	227 L	35 KW	95%	AOSMITH BTH-120

SILENCER SCHEDULE					
FLOW		SIZE		VELOCITY <500 FPM	
0 - 25 L/S	125 x 100 OR 125 DIA.	1000	2000	4000	
26 - 50 L/S	150 x 125 OR 150 DIA.	50	55	40	
51 - 70 L/S	128	28	45	51	55
71 - 100 L/S	250 x 150				
101 - 150 L/S	250 x 200 OR 250 DIA.				
151 - 200 L/S	300 x 200				

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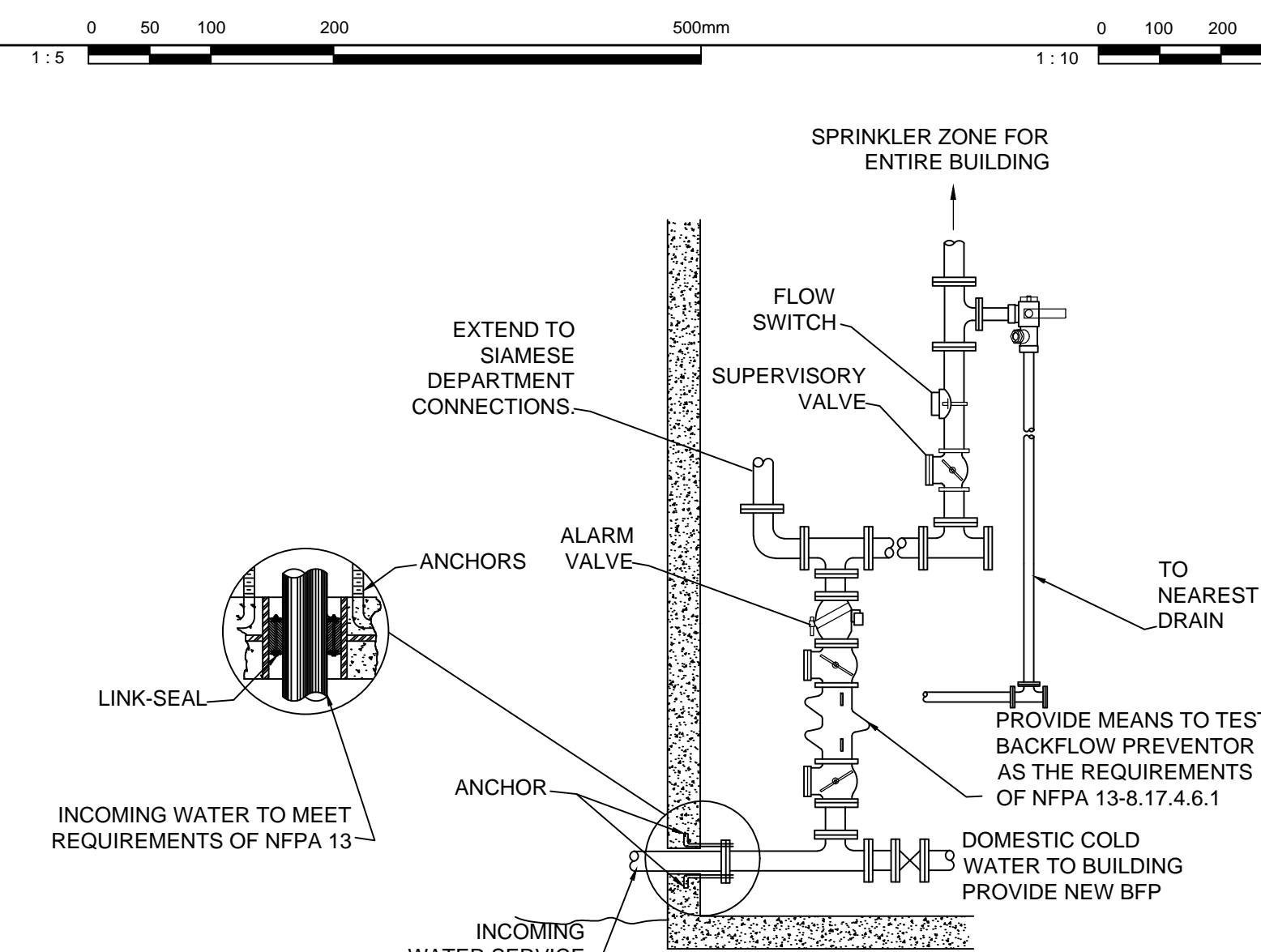
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projet **BUILDING A PROJECT**

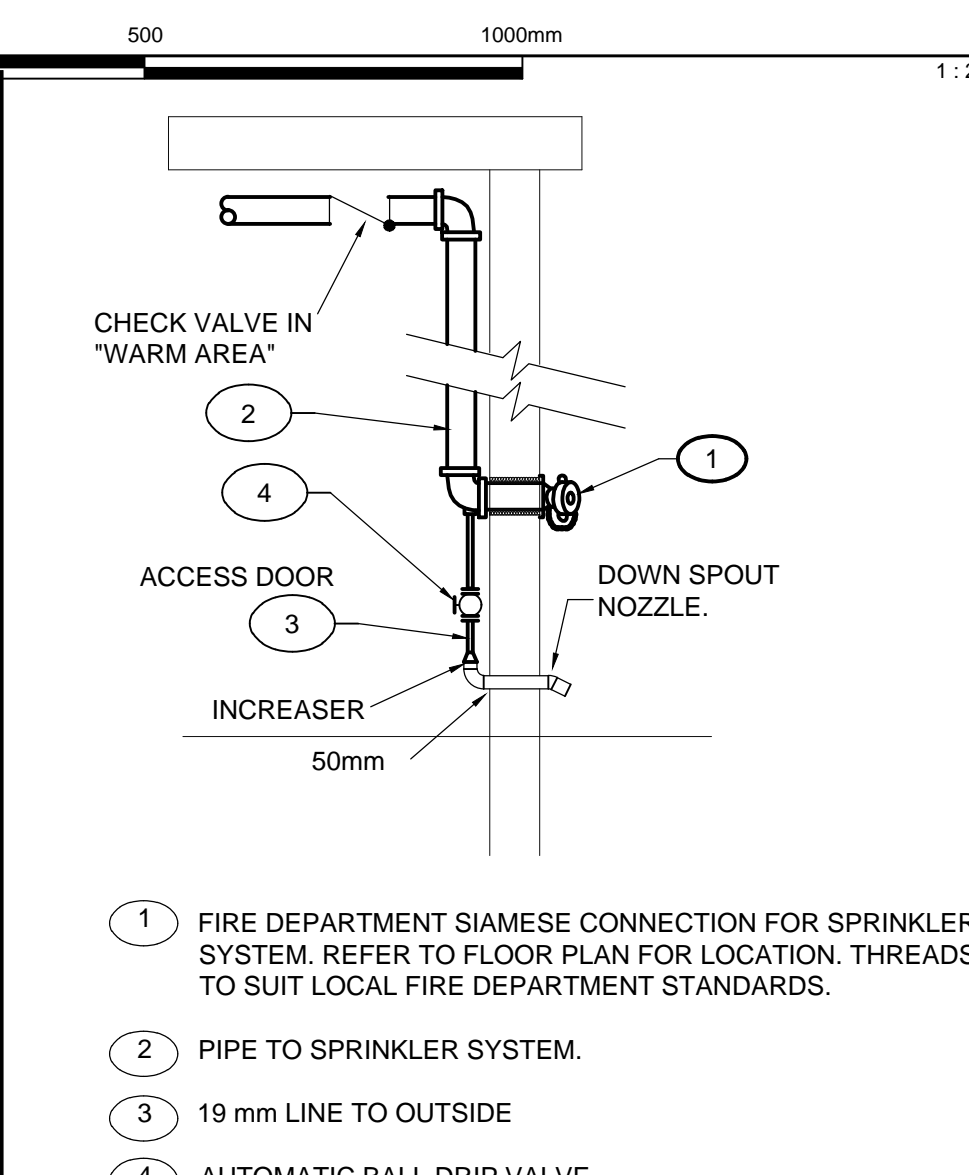
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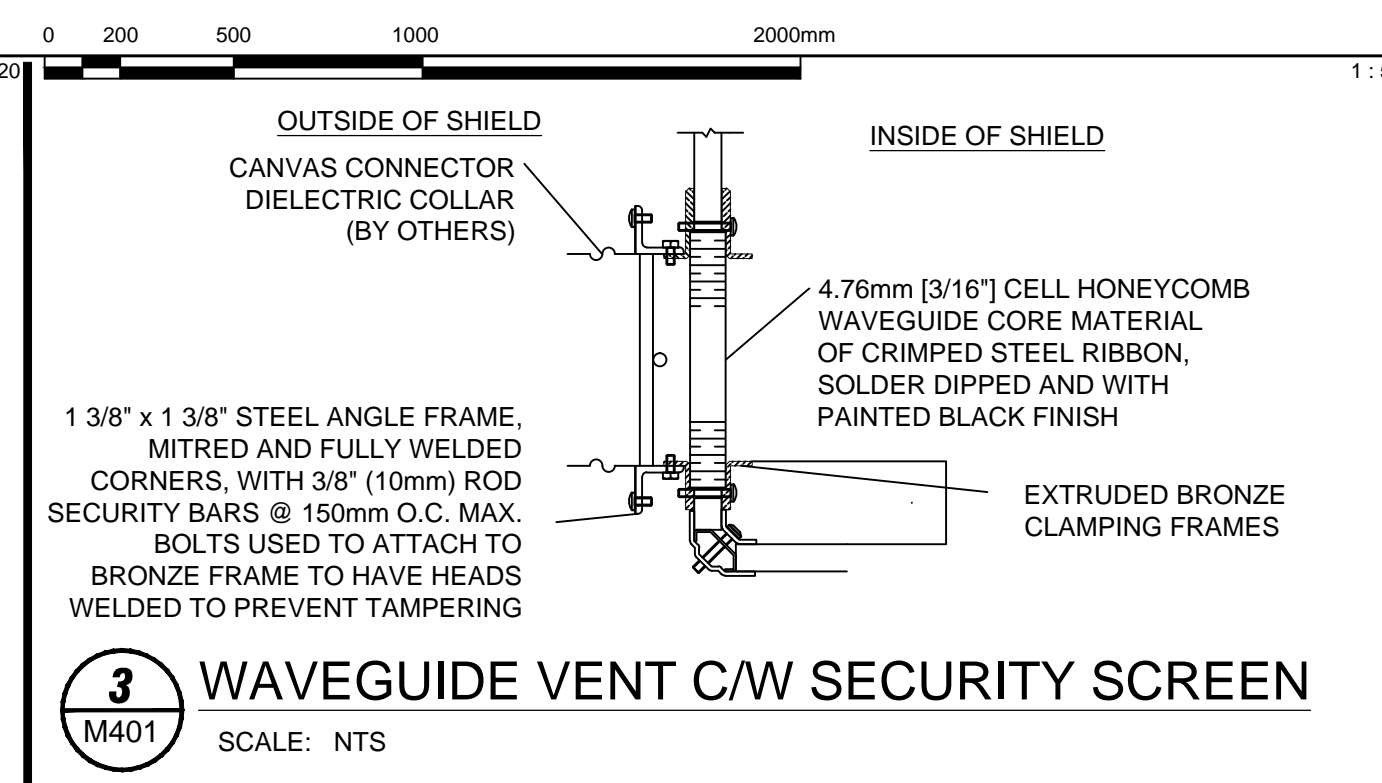
M400



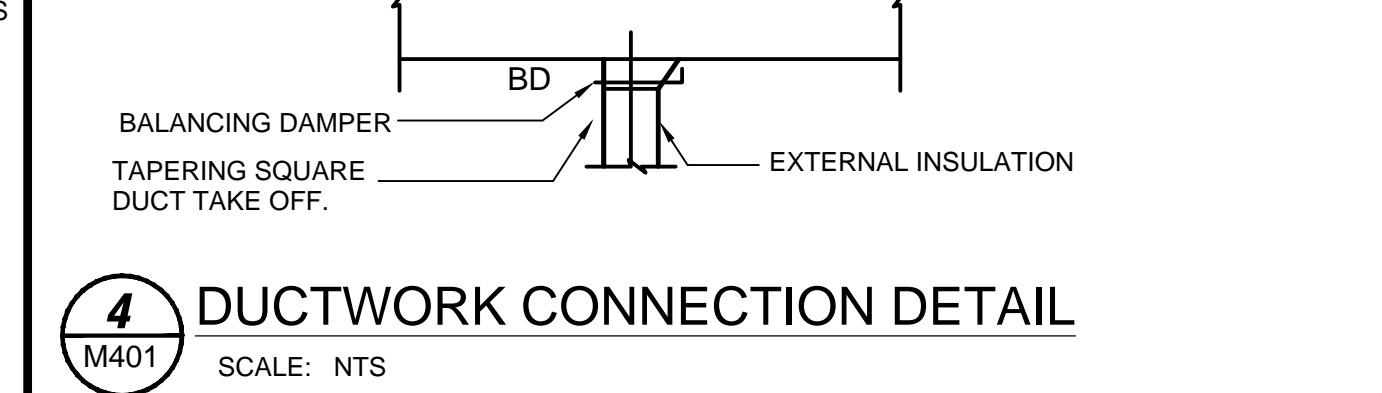
1 WATER ENTRY DETAIL
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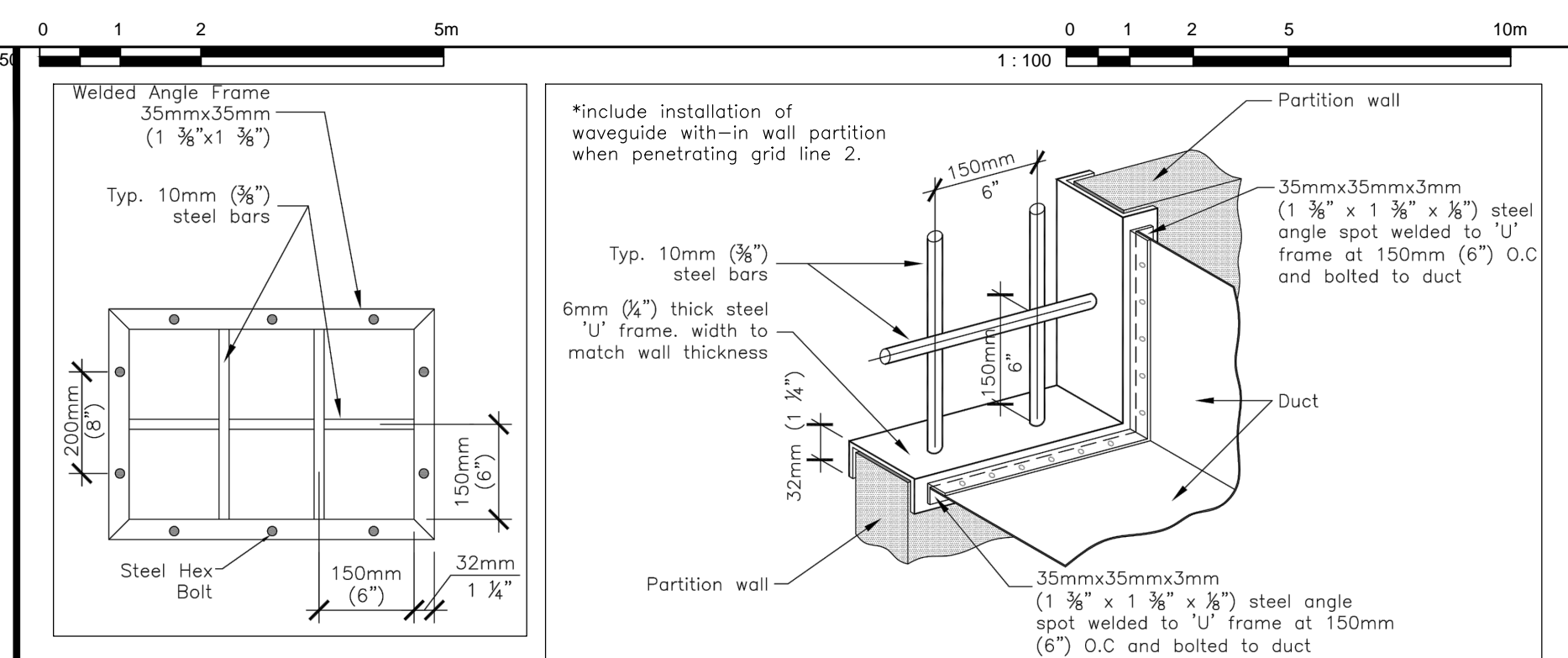
2 SIAMESE CONNECTION DETAIL
M401 SCALE: NTS



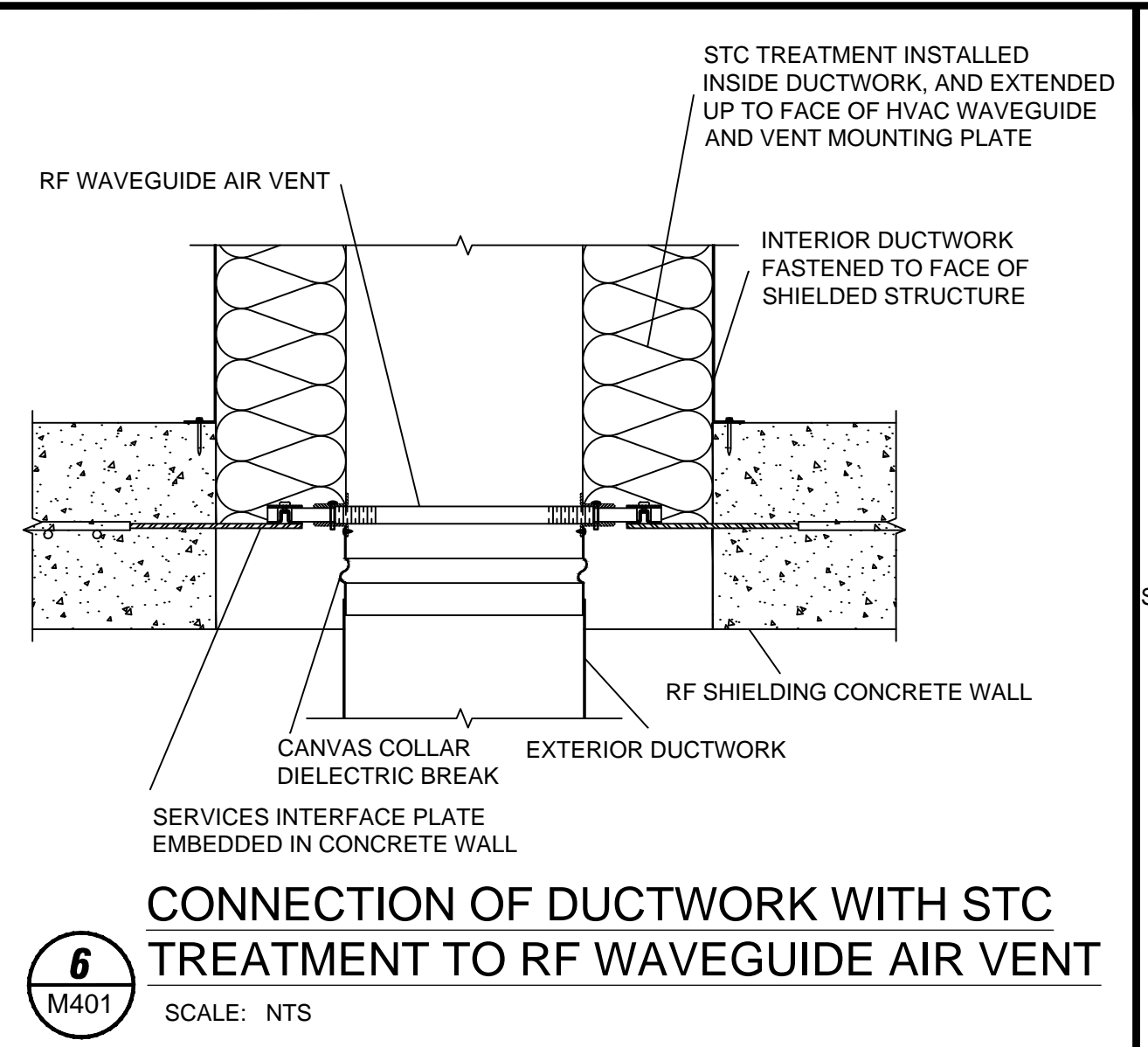
3 WAVEGUIDE VENT CW SECURITY SCREEN
M401 SCALE: NTS



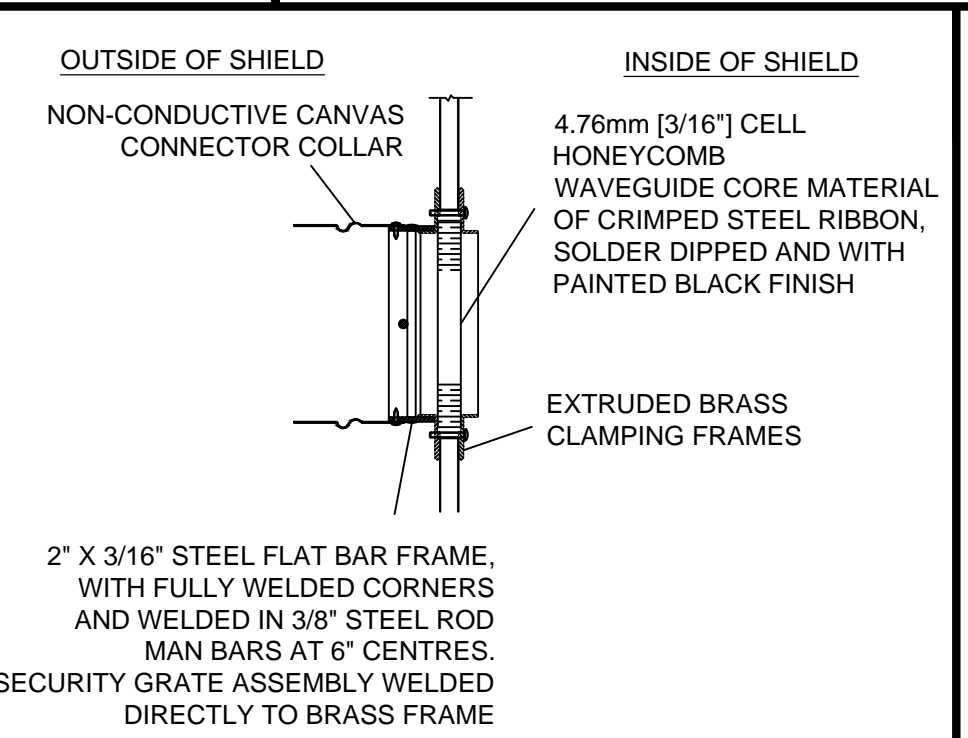
4 DUCTWORK CONNECTION DETAIL
M401 SCALE: NTS



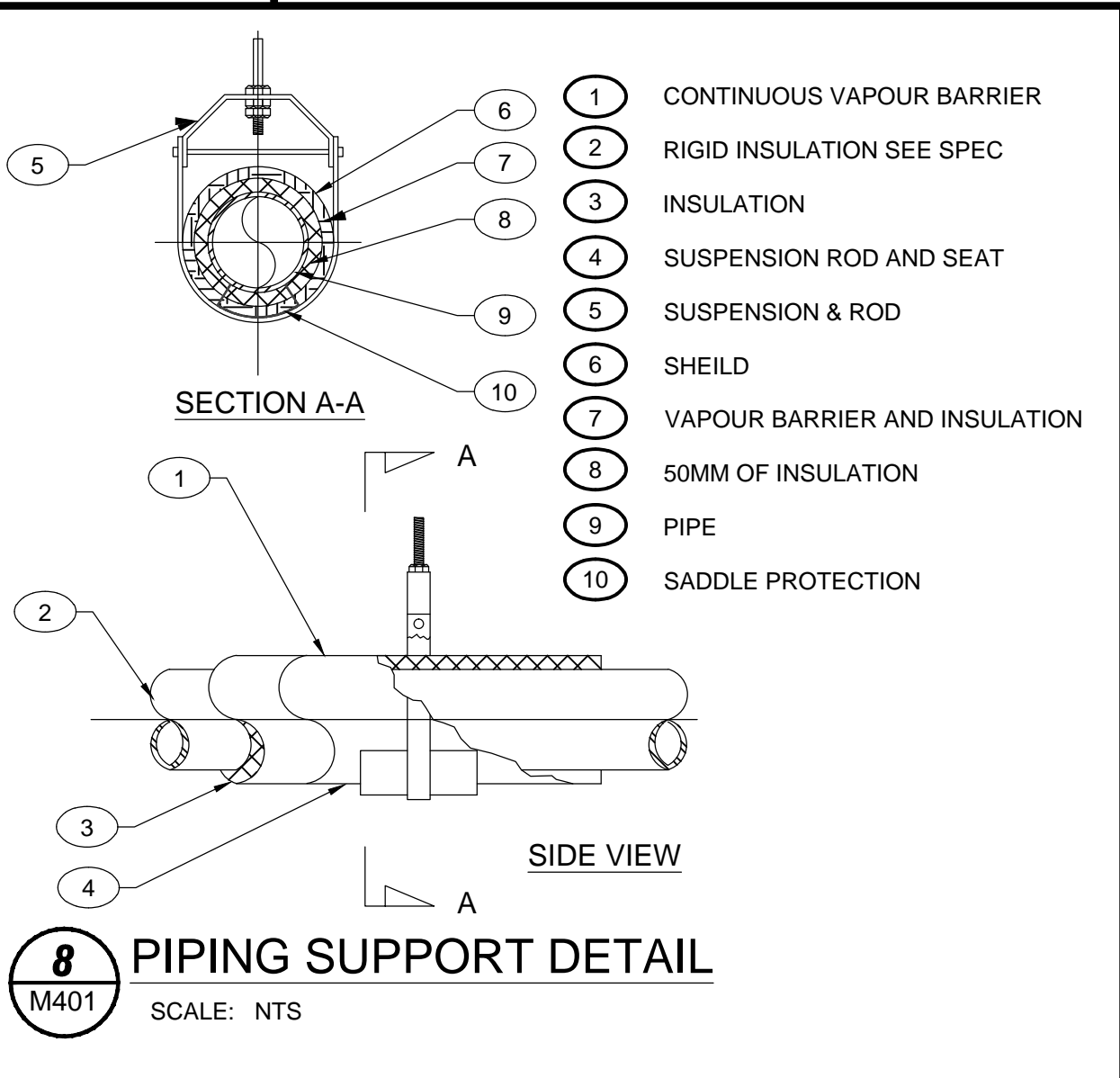
5 SECURITY BARS DETAIL
M401 SCALE: NTS



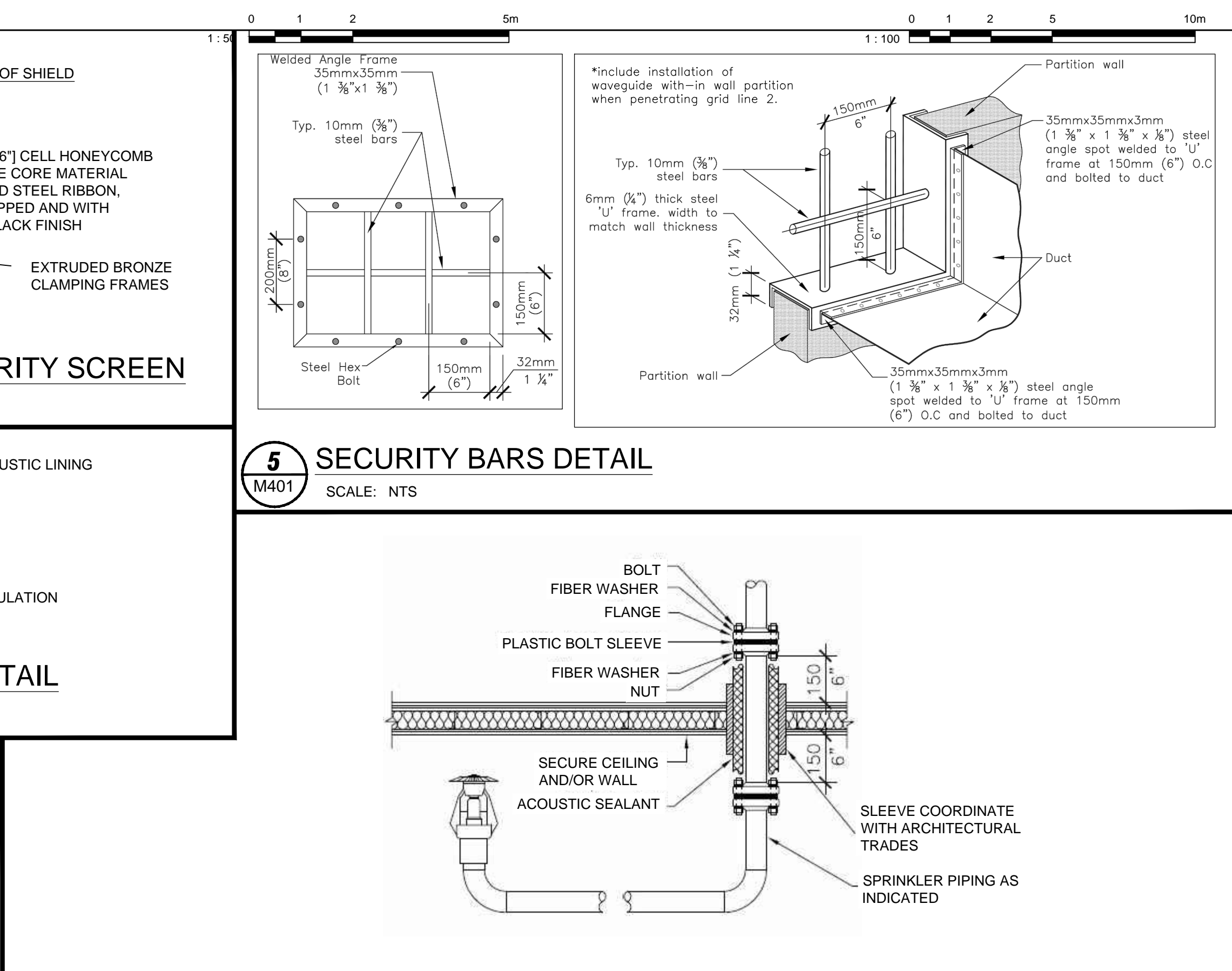
6 CONNECTION OF DUCTWORK WITH STC TREATMENT TO RF WAVEGUIDE AIR VENT
M401 SCALE: NTS



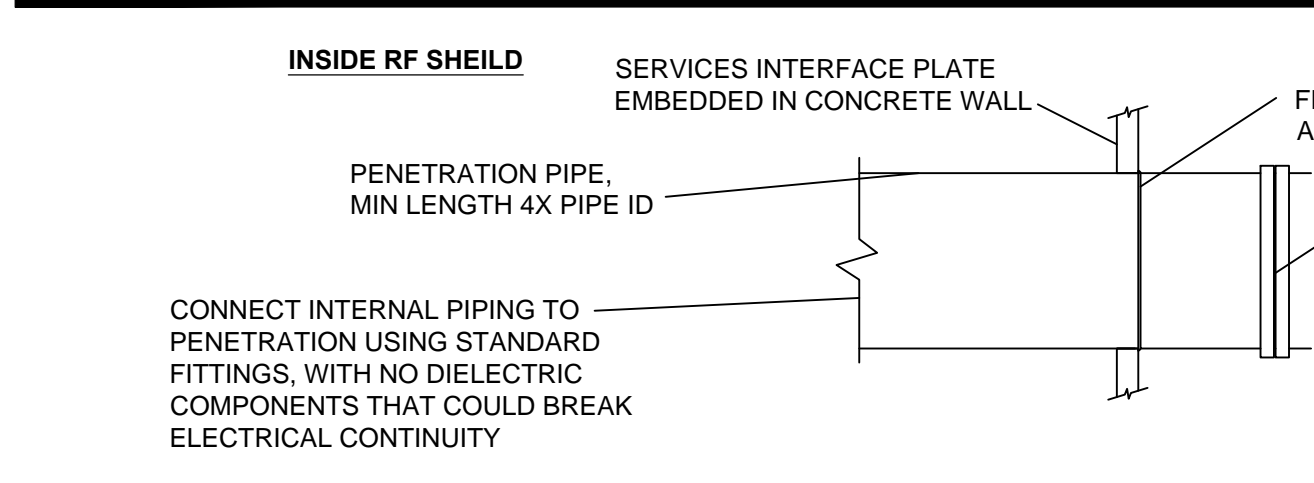
7 PIPING SUPPORT DETAIL
M401 SCALE: NTS



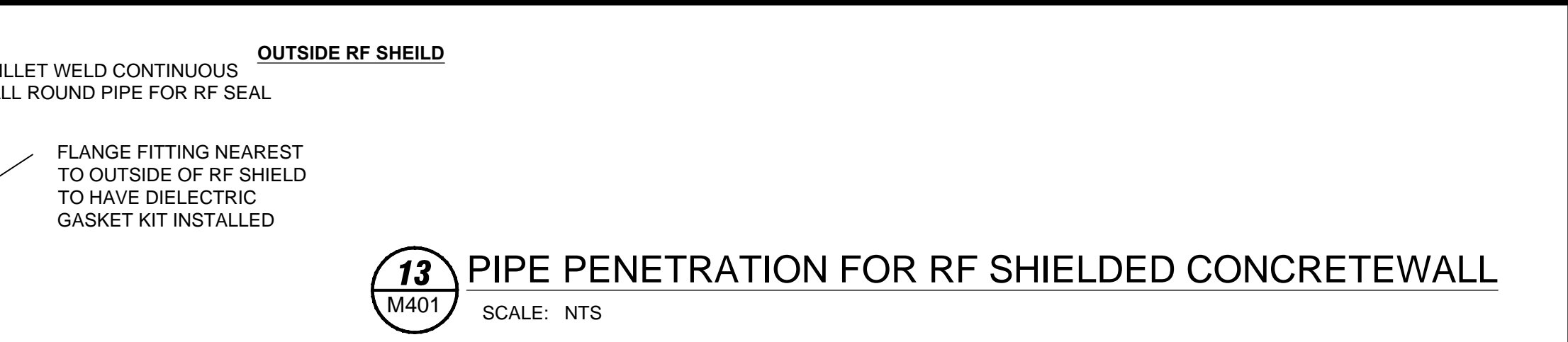
8 PIPING SUPPORT DETAIL
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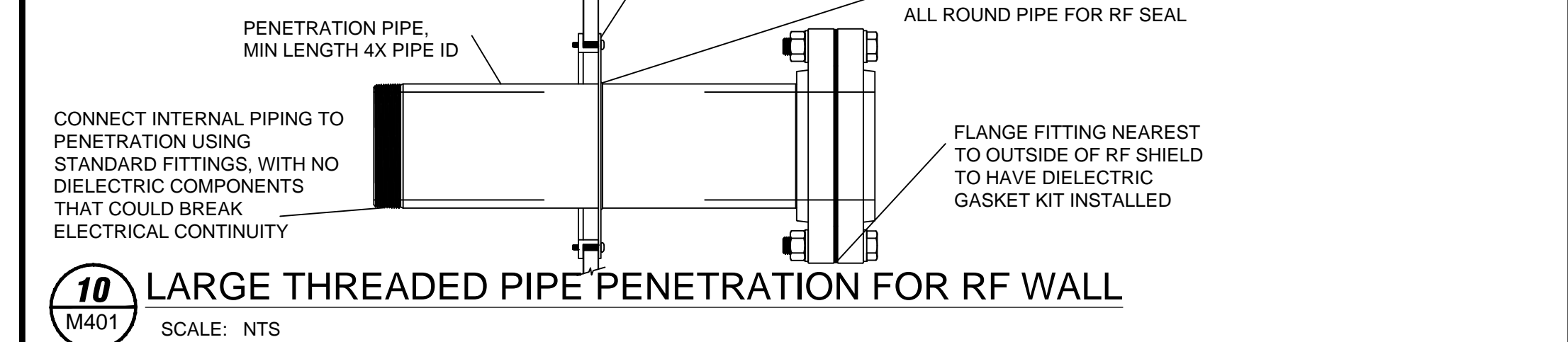
14 SPRINKLER PIPING PENETRATION AND SECURE CEILING/WALL
M401 SCALE: NTS



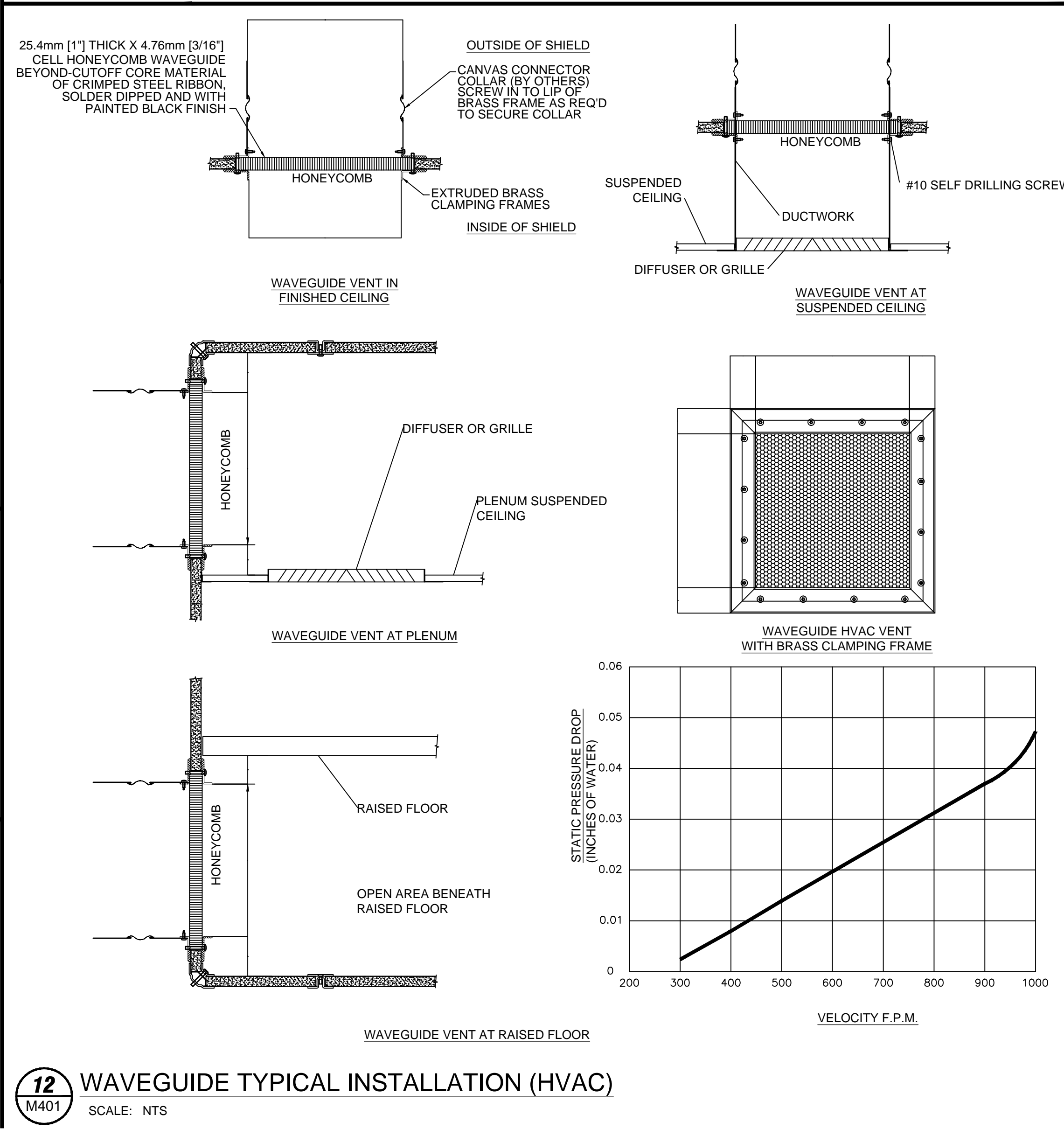
9 HOT WATER HEATER DETAIL
M401 SCALE: NTS



10 LARGE THREADED PIPE PENETRATION FOR RF WALL
M401 SCALE: NTS



11 LARGE SIZE WELDED PENETRATION FOR RF WALL
M401 SCALE: NTS



12 WAVEGUIDE TYPICAL INSTALLATION (HVAC)
M401 SCALE: NTS

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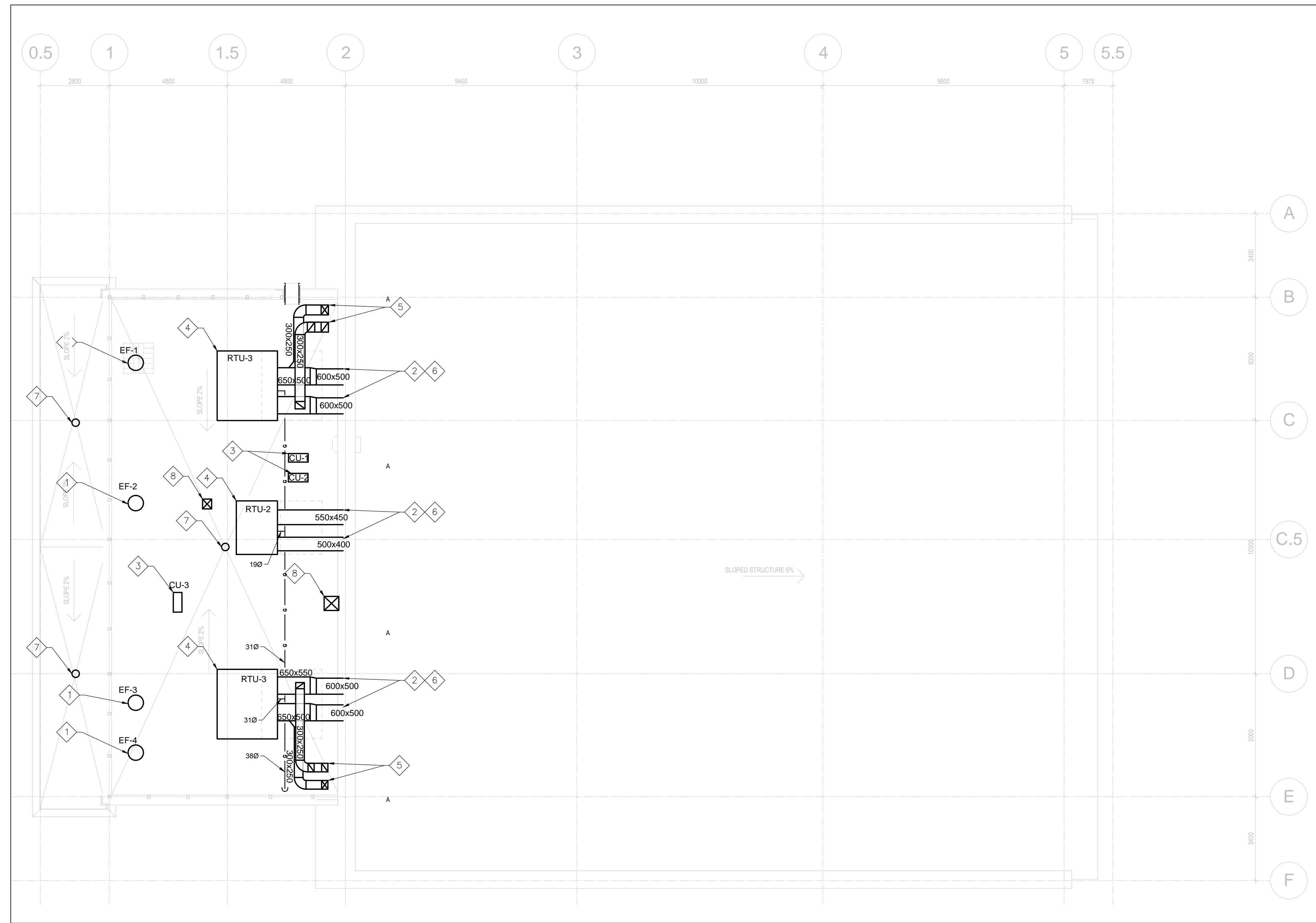
BUILDING A PROJECT

DETAILS

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dessiné	drawn	fichier DAO	CAD file
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approuvé	approved	dossier client	client file
GT		7207528	
échelle	scale	imprimé	plot date
no. page	sheet number	rev	

M401

Drawing name: C:\A\00566B_building\building_m401.dwg, 11 Jun 2018 3:59pm



1 ROOF - MECHANICAL
M402 SCALE: 1 / 100

GENERAL NOTES

1. CO-ORDINATE PIPING LAYOUT WITH WORK OF ALL OTHER TRADES.
2. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR BUILDING DETAILS.
3. LAYOUT, ROUTING AND LOCATIONS ARE INDICATIVE, CONTRACTOR IS TO VERIFY SITE CONDITIONS AND CO-ORDINATE INSTALLATION WITH ALL TRADES ON SITE.
4. PROVIDE WALL SLEEVES FOR ALL DUCTWORK AND PIPING PENETRATIONS THROUGH WALL. CO-ORDINATION LOCATION WITH OTHER TRADES.
5. PROVIDE ACOUSTIC LINING AND THERMAL INSULATION ON ALL SUPPLY AND RETURN MAINS, BRANCHES AND FLEX DUCTWORK.
6. REVIEW ARCHITECTURAL DRAWINGS FOR CEILING, WINDOWS AND STRUCTURE TYPE AND ELEVATIONS. KEEP HVAC COMPONENTS CONCEALED AS MUCH AS POSSIBLE. PAY EXTRA ATTENTION TO WORKMANSHIP AND FINISHES OF ALL EXPOSED COMPONENTS. (TYPICAL)
7. PROVIDE BALANCING DAMPERS ON ALL SUPPLY AND RETURN BRANCHES.
8. ALL DUCTWORK PENETRATIONS THROUGH GRID 2 MUST INCLUDE SECURITY BARS DIELECTRIC BREAK, GROUND AND HONEYCOMB FITTING. SEE DETAILS FOR FURTHER INFORMATION.
9. REFER TO SCHEMATIC FOR BALANCING INFORMATION.
10. PROVIDE PROPER CONSTRUCTION METHODS AND PRODUCTS TO ENSURE STC LEVELS INDICATED ON ARCHITECTURAL PLANS ARE ACHIEVED. COORDINATION ALL WORK WITH RESPECTIVE TRADES TO ENSURE STC RATINGS ARE RESPECTED.

DRAWING NOTES

1. PROVIDE NEW EXHAUST FANS ON ROOF COMPLETE WITH NEW DUCTWORK. MAINTAIN MINIMUM DISTANCES FROM FRESH AIR INTAKES AS REQUIRED BY CODE. COORDINATE EXACT LOCATION WITH GENERAL AND STRUCTURAL TRADES. NOTE THAT THERE WILL BE STRUCTURAL KICKERS ON THE ROOF AND THE FANS AND ASSOCIATED DUCTWORK BENEATH THE FANS ARE TO BE ADJUSTED TO AVOID INTERFERENCES WITH THE KICKERS.
2. PROVIDE SECURITY BARS FOR DUCTWORK SEE DETAIL ON DRAWING M401 FOR MORE INFORMATION. (TYPICAL).
3. PROVIDE SPLIT AC UNIT COMPLETE WITH REFRIGERATION PIPING FROM EVAPORATOR TO CONDENSER. SEE M400 FOR EVAPORATOR LOCATION AND M400&M401 FOR UNIT DETAILS. REFRIGERATION PIPING TO HAVE DIELECTRIC BREAK THROUGH WALL AT GRIDLINE 2 AND INSULATED PIPE PENETRATION. TYPICAL.
4. PROVIDE ROOFTOP UNITS ON ROOF COMPLETE WITH CUSTOM CURB FOR HORIZONTAL DISCHARGE. ROOFTOP UNIT TO HAVE SUPPLY AND RETURN FANS C/W VFD. ALL EXPOSED DUCTWORK ON ROOF TO BE INSULATED WITH WEATHER PROOF MATERIAL. SEE SCHEDULE SPECIFICATIONS FOR ADDITIONAL DETAILS.
5. SUPPLY AND RETURN DUCTWORK THROUGH DOG HOUSE TO CEILING SPACE. SEE DRAWING M400 FOR CONTINUATION. TYPICAL. SEE ARCHITECTURAL DRAWINGS FOR DOG HOUSE DETAILS. COORDINATE EXACT LOCATION OF PENETRATIONS WITH GENERAL AND STRUCTURAL TRADES. NOTE THAT THERE WILL BE STRUCTURAL KICKERS ON THE ROOF AND THE PENETRATIONS AND ASSOCIATED DUCTWORK BENEATH ARE TO BE ADJUSTED TO AVOID INTERFERENCES WITH THE KICKERS.
6. SUPPLY AND RETURN DUCTWORK THROUGH WALL INTO CEILING SPACE. ALL DUCTWORK PENETRATIONS THROUGH GRID 2 MUST INCLUDE SECURITY BARS DIELECTRIC BREAK AND WAVEGUIDE. SEE DRAWING M300 FOR CONTINUATION AND M400&M401 FOR SCHEMATIC AND DETAILS.
7. PROVIDE ROOF DRAIN. SEE STORM DRAWING 201 FOR DETAILS.
8. AIR INTAKE GOOSENECK, SEE DRAWING M400 FOR FURTHER DETAILS.

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scobau	stamo	
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dessin	drawing	
ROOF MECHANICAL		
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approuvé GT	approved dossier client 7207528	client file
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M402		

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