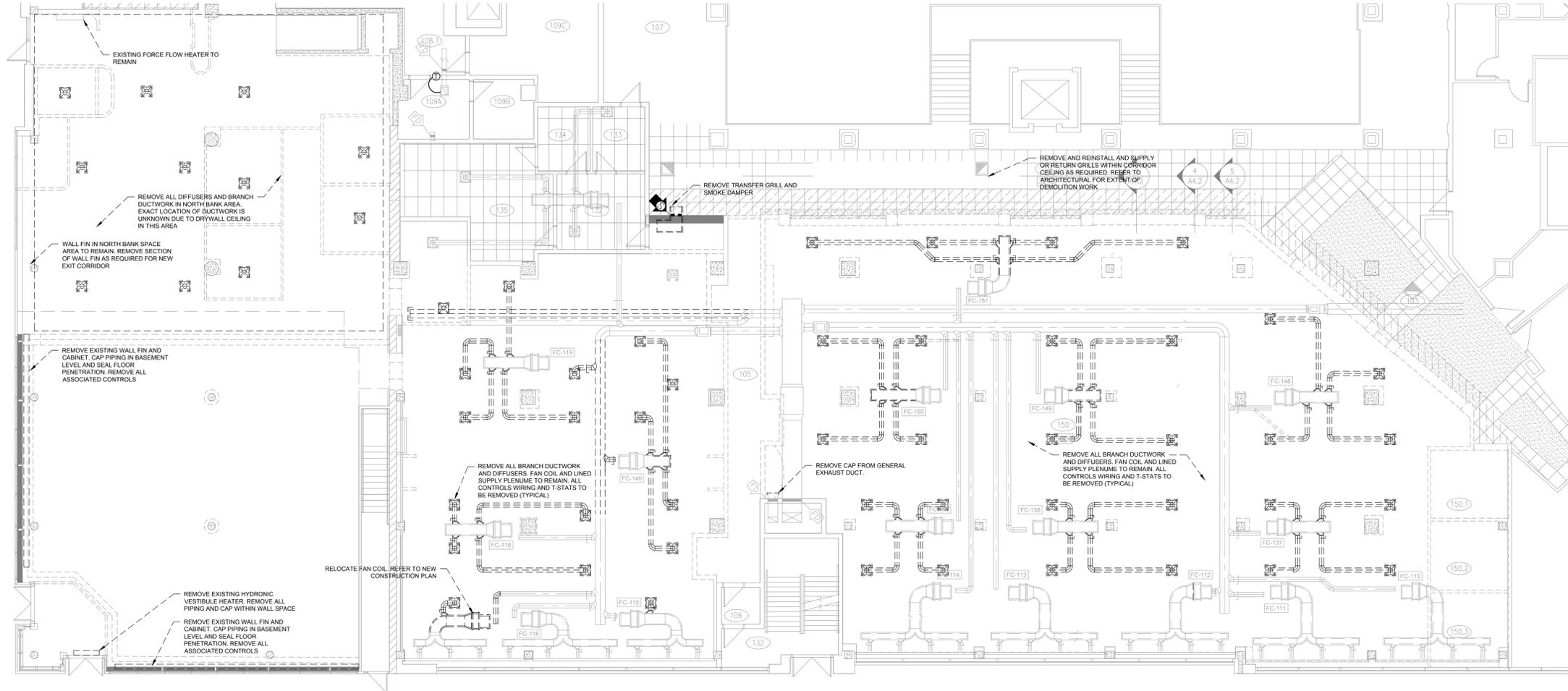
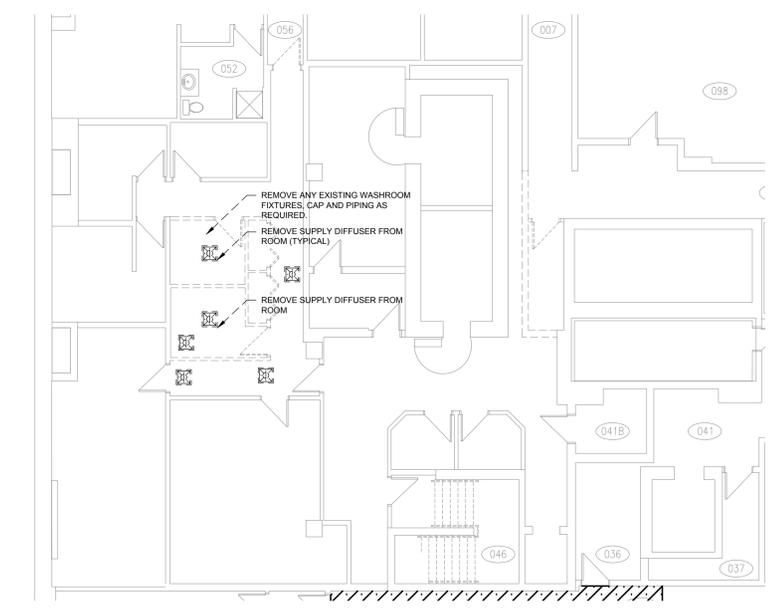


- GENERAL DEMOLITION NOTES:**
1. REMOVE ALL EXISTING SQUARE PLAQUE DIFFUSERS AS SHOWN.
 2. ALL EXISTING LINEAR SLOT DIFFUSERS TO BE REMOVED AND RE-INSTALLED IN NEW CEILING GRID. EXISTING CONTINUOUS SLOT TO BE REUSED.
 3. TEMPORARILY REMOVE TRANSFER DUCTS OUT OF SPACE WITHIN SMOKE SEPARATION. SMOKE DAMPERS TO BE REMOVED AND RE-INSTALLED.
 4. ALL EXISTING FAN COILS TO REMAIN. EXISTING INTERNALLY LINED SUPPLY PLENUM TO ALSO REMAIN. RELOCATE FAN COILS AS SHOWN.
 5. REMOVE ALL EXISTING WALL HEATING FIN IN SOUTH BANK SPACE. REMOVE ALL CONTROLS AND CONTROL'S WIRING. CAP HYDRONIC PIPING IN BASEMENT. SEAL PENETRATIONS IN FLOOR SLAB.



1 MAIN FLOOR - HVAC DEMOLITION PLAN
M1.1 1:100



2 BASEMENT - HVAC DEMOLITION PLAN
M1.1 1:100

HVAC SYMBOLS

SYMBOL	DESCRIPTION
	NEW DUCT
	EXISTING DUCT
	EXISTING DUCT REMOVED
	EXISTING EQUIPMENT REMOVED
	SUPPLY AIR DIFFUSER
	SUPPLY AIR LINEAR SLOT DIFFUSER
	RETURN AIR GRILLE
	EXHAUST/RETURN AIR GRILLE
	SUPPLY AIR REGISTER/GRILLE
	ACOUSTICALLY LINED DUCT
	FLEXIBLE DUCT (SIZE TO MATCH DIFFUSER NECK SIZE) - 10' LONG MAXIMUM OR AS SPECIFIED (WHICHEVER IS SHORTER)
	RECTANGULAR ELBOW WITH AIR TURNING VANES
	CONTROL WIRING
	THERMOSTAT / TEMPERATURE SENSOR
	HUMIDISTAT / HUMIDITY SENSOR
	ROUND DUCT TAKE-OFF FROM ROUND DUCT
	RECTANGULAR DUCT TAKE-OFF FROM RECTANGULAR DUCT
	ROUND DUCT/PIPE FROM BELOW
	OUTDOOR AIR OR SUPPLY AIR DUCT UP
	OUTDOOR AIR OR SUPPLY AIR DUCT DOWN
	OUTDOOR AIR OR SUPPLY AIR DUCT FROM BELOW
	RETURN AIR DUCT UP
	RETURN AIR DUCT DOWN
	RETURN AIR DUCT FROM BELOW
	EXHAUST AIR DUCT UP
	EXHAUST AIR DUCT DOWN
	EXHAUST AIR DUCT FROM BELOW
	EXHAUST AIR GRILLE
	BALANCING DAMPER (VOLUME)



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Client/Client: PUBLIC SERVICES AND PROCUREMENT CANADA

PUBLIC SERVICES AND PROCUREMENT CANADA

Projet/Titre du projet
1783 HAMILTON STREET
REGINA, SASKATCHEWAN

ESDC - PPT REGINA AMALGAMATION

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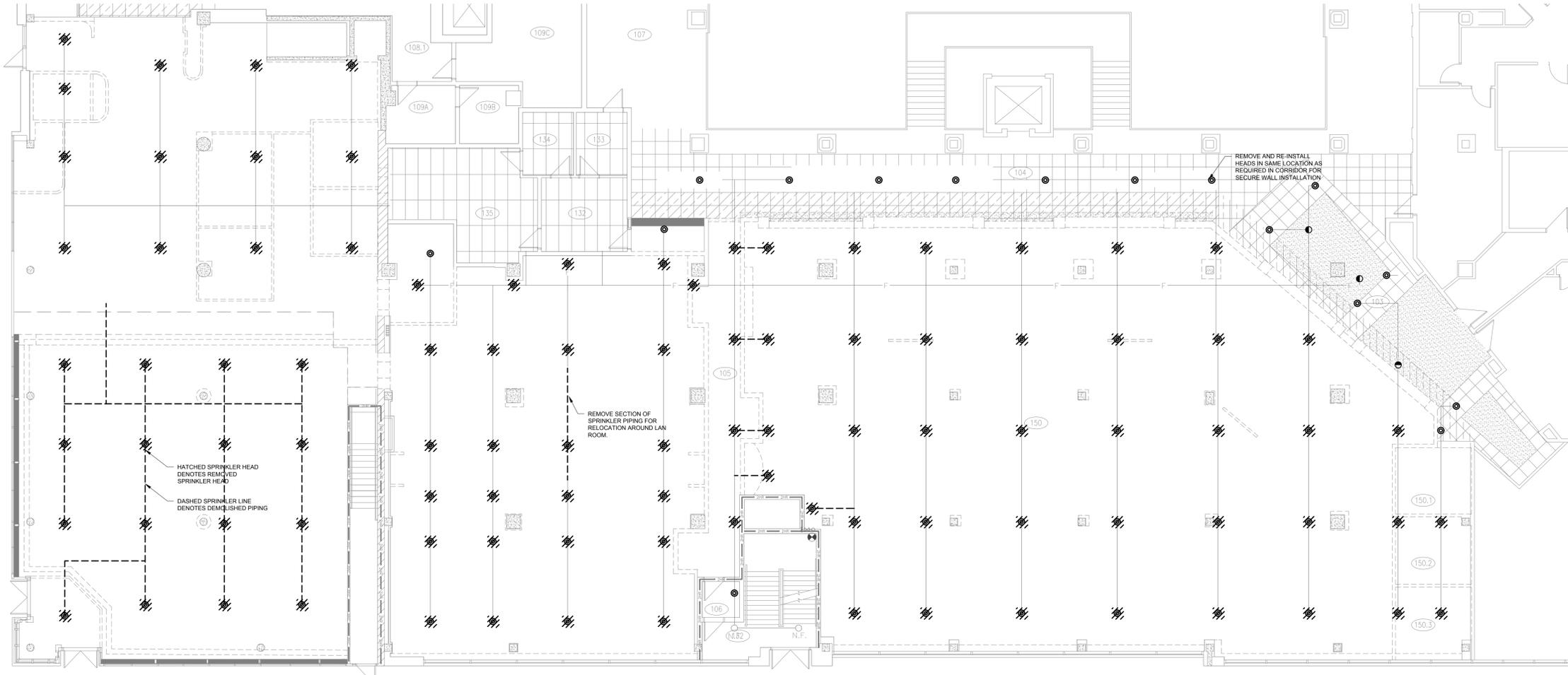
Drawing Title/Titre du dessin
HVAC DEMOLITION PLAN

Project No./No. du projet R.060346	Sheet/Feuille M1.1 1 OF 6	Revision no./ La Révision no. 0
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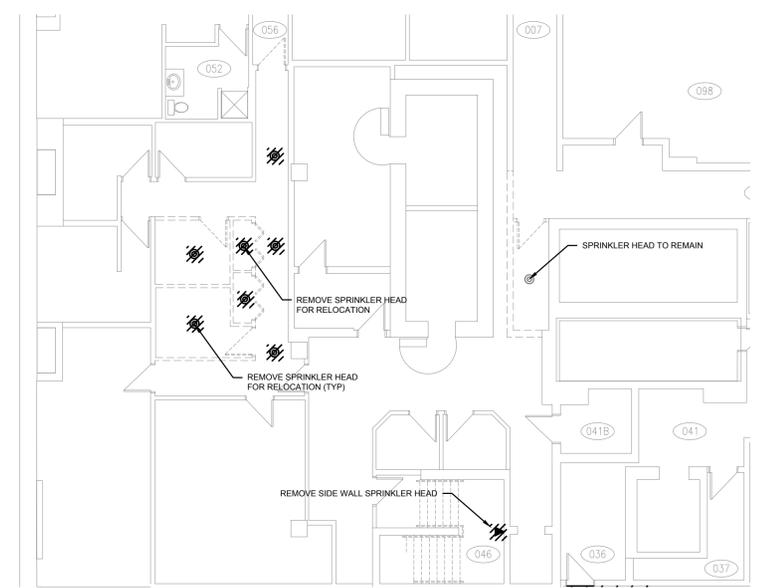
FIRE PROTECTION SYMBOLS

SYMBOL	DESCRIPTION
—	EXISTING PIPING
- - -	EXISTING PIPING REMOVED
— SPR —	NEW SPRINKLER PIPING
○	UPRIGHT SPRINKLER HEAD
⊙	CONCEALED SPRINKLER HEAD
◀	SIDEWALL SPRINKLER HEAD
☼	RECESSED FIRE EXTINGUISHER CABINET (w/ FIRE EXTINGUISHER)

GENERAL FIRE PROTECTION DEMOLITION NOTES:
 1. REMOVE ALL HEADS AS SHOWN. SPRINKLER MAINS TO REMAIN
 2. REMOVE ALL FIRE EXTINGUISHERS AND SUPPORTING BRACKETS
 3. REMOVE SPRINKLER HEADS IN CORRIDOR AS REQUIRED FOR SECURE WALL MODIFICATIONS. RE-INSTALL HEADS IN ORIGINAL LOCATION



1 MAIN FLOOR - FIRE PROTECTION DEMOLITION PLAN
 M1.2 1:100



2 BASEMENT - FIRE PROTECTION DEMOLITION PLAN
 M1.1 1:100



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PWDC Project Manager/Administrateur de Projets TPDC:
 JEAN-PHILIPPE BLOUIN

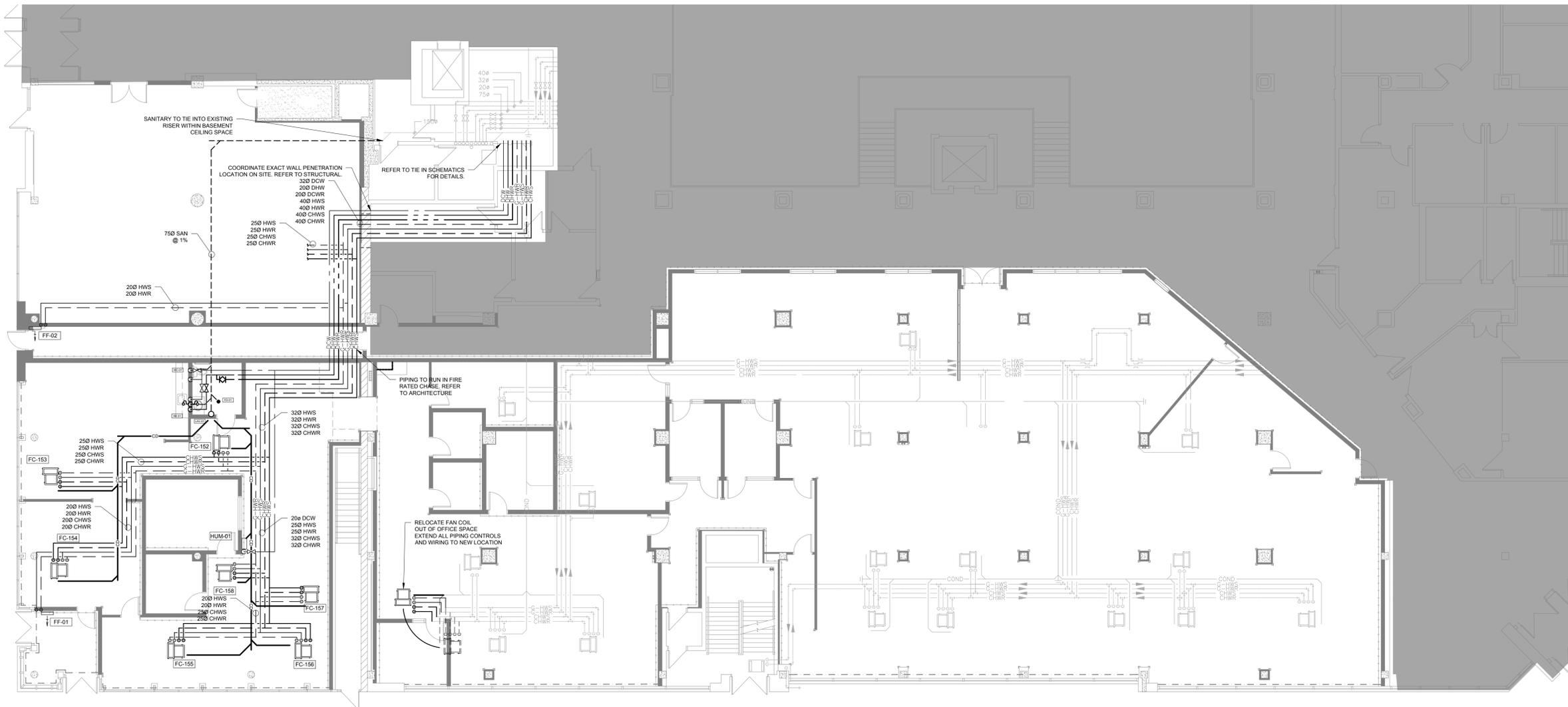
PWDC Architectural and Engineering Resources Manager/Responsable Architectural et de Services d'Ingénierie, TPDC:

Client/Client:
 PUBLIC SERVICES AND PROCUREMENT CANADA

Drawing Title/Titre du dessin:
**MAIN FLOOR
 FIRE PROTECTION DEMOLITION**

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
R.060346	M1.2 2 OF 6	0

- GENERAL PLUMBING & HYDRONIC NOTES:**
- REFER TO PIPE SECTION DETAIL FOR PIPE RUN ORIENTATION.
 - REFER TO FAN COIL CONNECTION DETAIL FOR ALL REQUIRED VALVING.
 - NEW SANITARY LINE TO BE ROUTED THROUGH BASEMENT. ENSURE MINIMUM SLOPE OF 1% IS MET.
 - PROVIDE ISOLATION VALVES ON ALL PLUMBING FIXTURES.
 - PROVIDE 250 VALVED AND CAPPED HEATING AND CHILLED WATER LINES WITHIN CEILING SPACE OF NORTH BANK AREA.
 - ALL CONDENSATE LINES TO DRAIN BY GRAVITY TO CENTRAL DRAINAGE POINT. SLOPE CONDENSATE LINES AT A MINIMUM OF 1%.
 - FORCE FLOWS TO BE SEMI-RECESSED. REFER TO ARCHITECTURE FOR FORCE FLOW RECESSED INTO SECURE WALL.



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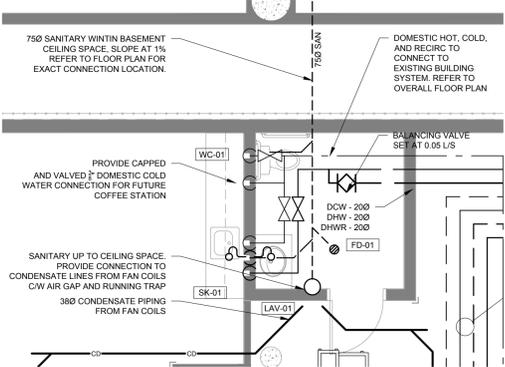
Projet, Architectural and Engineering Business Manager/
Responsable Architectural et de Structure d'Ingénierie, TPSSC

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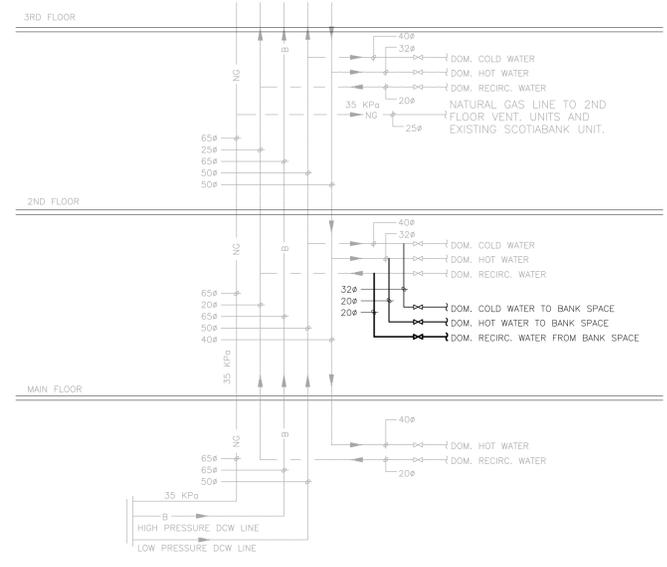
Drawing Title/Titre du dessin
**HEATING & CHILLED WATER SYSTEM
PLUMBING
TIE-IN SCHEMATICS**

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R.060346	M2.1	0
	3 OF 6	

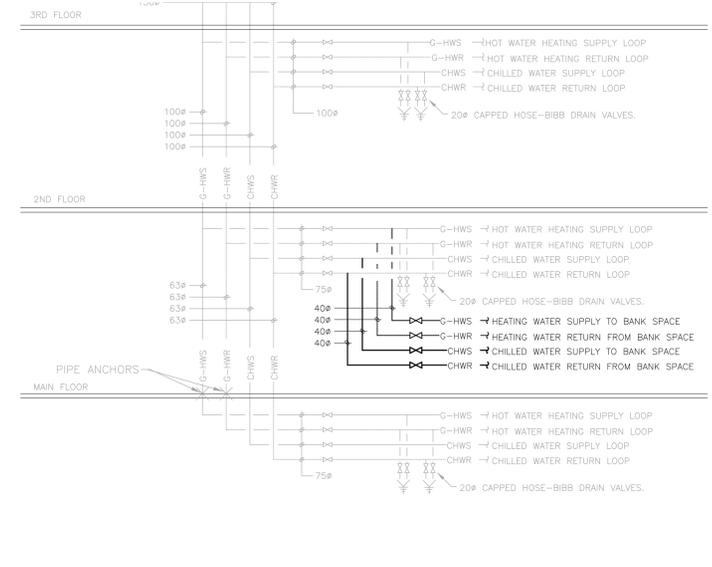
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M2.1 1:100



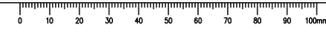
2 WASHROOM DETAIL
M2.1 1:50



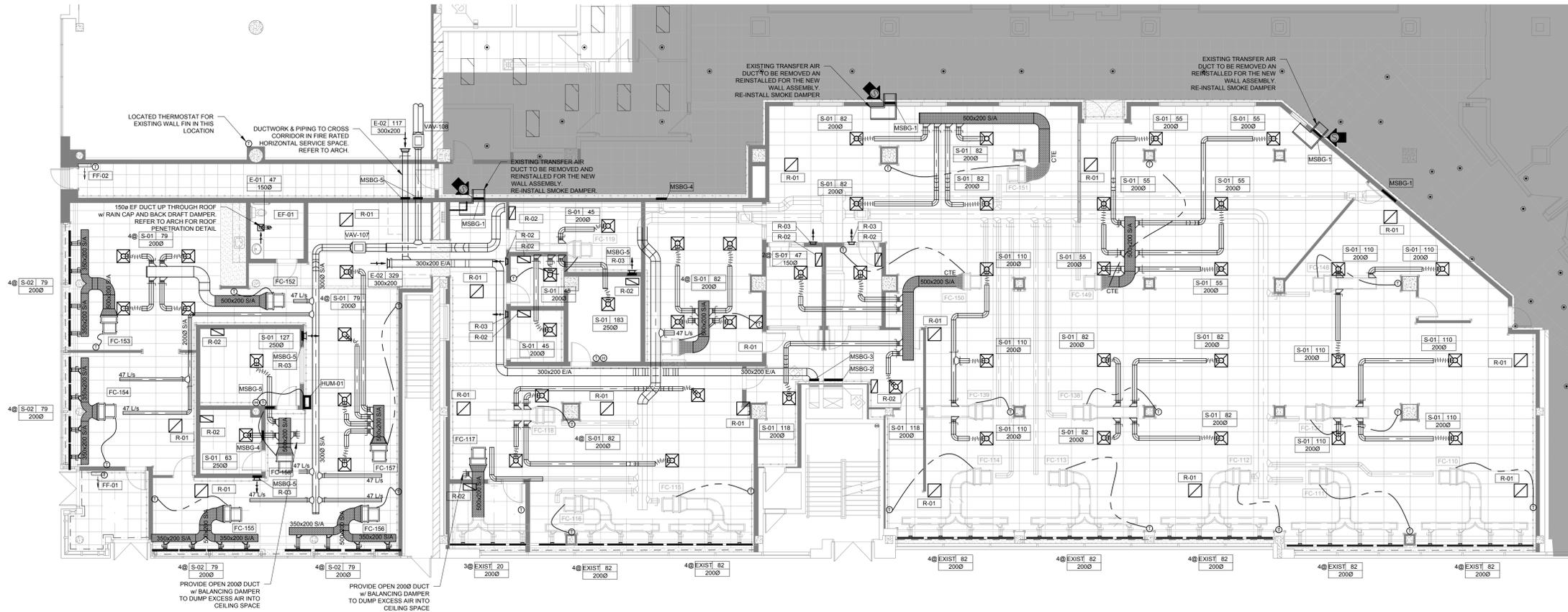
3 DOMESTIC WATER TIE IN SCHEMATIC
M2.1 1:50



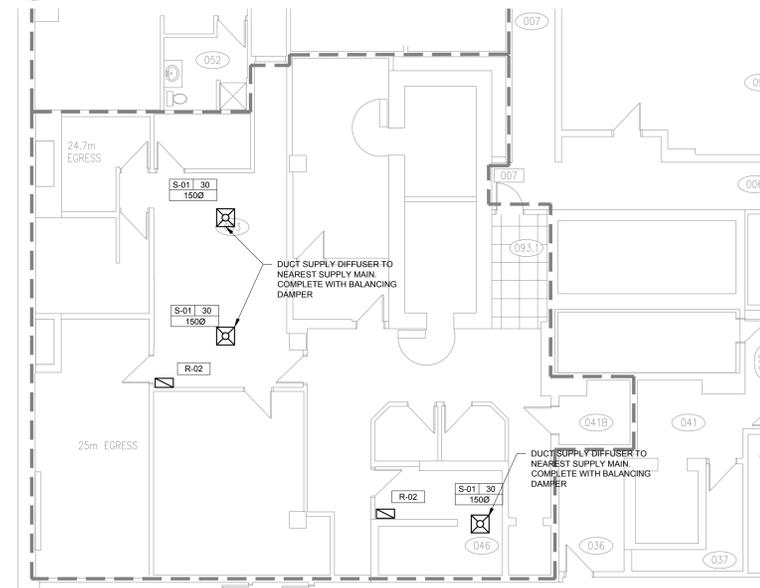
4 HEATING AND CHILLED GLYCOL TIE IN SCHEMATIC
M2.1 1:50



- GENERAL HVAC NOTES:**
- CROSS HATCHED DUCTS DENOTE ACOUSTICALLY LINED DUCTWORK.
 - PROVIDE BALANCING DAMPERS ON ALL BRANCH DUCTS AS CLOSE TO MAIN AS POSSIBLE.
 - MAX ALLOWABLE LENGTH OF FLEX DUCT SHALL NOT EXCEED 900mm PROVIDE HARD ELBOWS ON ALL DIFFUSERS.
 - BRANCH DUCTWORK SIZE TO MATCH DIFFUSER THROAT SIZE.
 - COORDINATE DIFFUSER AND GRILL LOCATIONS WITH ALL OTHER DISCIPLINES. NOTIFY CONSULTANT IF INTERFERENCE EXISTS.
 - CONTINUOUS LINIER SLOT DIFFUSER TO BE REINSTALLED.
 - ALL THERMOSTATS WITHIN PUBLIC AREAS TO BE COMPLETE WITH LOCKING COVER.
 - MSBG DENOTES SECURITY BAR GRILLES TO BE INSTALLED IN DUCTWORK. REFER TO SCHEDULE. COORDINATED EXACT SIZE PRIOR TO ORDERING.
 - REMOVE AND RE-INSTALL TRANSFER AIR GRILLES AS NOTED. REUSE SMOKE DAMPER. REFER TO ELECTRICAL FOR ELECTRICAL CONNECTION DETAILS.
 - TRANSFER AIR GRILLES TO BE LOCATED IN CEILING SPACE WITH ROOMS WITH FULL HEIGHT WALLS.
 - HUM-01 TO BE MOUNTED WITHIN CEILING SPACE ON FULL HEIGHT WALL. PROVIDE STEAM DISTRIBUTION TUBE FOR DUCT INSTALLATION. HUMIDIFIER CONDENSATE LINE TO TIE INTO FAN COIL CONDENSATE DRAIN LINE.



1 MAIN FLOOR - HVAC CONSTRUCTION PLAN
M3.1 1:100



2 BASEMENT - HVAC CONSTRUCTION PLAN
M1.1 1:100

HVAC SYMBOLS

SYMBOL	DESCRIPTION
[Symbol]	NEW DUCT
[Symbol]	EXISTING DUCT
[Symbol]	EXISTING DUCT REMOVED
[Symbol]	EXISTING EQUIPMENT REMOVED
[Symbol]	SUPPLY AIR DIFFUSER
[Symbol]	SUPPLY AIR LINEAR SLOT DIFFUSER
[Symbol]	RETURN AIR GRILLE
[Symbol]	EXHAUST/RETURN AIR GRILLE
[Symbol]	SUPPLY AIR REGISTER/GRILLE
[Symbol]	ACOUSTICALLY LINED DUCT
[Symbol]	FLEXIBLE DUCT (SIZE TO MATCH DIFFUSER NECK SIZE) - 10' LONG MAXIMUM OR AS SPECIFIED (WHICHEVER IS SHORTER)
[Symbol]	RECTANGULAR ELBOW WITH AIR TURNING VANES
[Symbol]	CONTROL WIRING
[Symbol]	THERMOSTAT / TEMPERATURE SENSOR
[Symbol]	HUMIDISTAT / HUMIDITY SENSOR
[Symbol]	ROUND DUCT TAKE-OFF FROM ROUND DUCT
[Symbol]	RECTANGULAR DUCT TAKE-OFF FROM RECTANGULAR DUCT
[Symbol]	ROUND DUCT/PIPE FROM BELOW
[Symbol]	OUTDOOR AIR OR SUPPLY AIR DUCT UP
[Symbol]	OUTDOOR AIR OR SUPPLY AIR DUCT DOWN
[Symbol]	OUTDOOR AIR OR SUPPLY AIR DUCT FROM BELOW
[Symbol]	RETURN AIR DUCT UP
[Symbol]	RETURN AIR DUCT DOWN
[Symbol]	RETURN AIR DUCT FROM BELOW
[Symbol]	EXHAUST AIR DUCT UP
[Symbol]	EXHAUST AIR DUCT DOWN
[Symbol]	EXHAUST AIR DUCT FROM BELOW
[Symbol]	EXHAUST AIR GRILLE
[Symbol]	BALANCING DAMPER (VOLUME)



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 AMALGAMATION**

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Client/Client
 PUBLIC SERVICES AND PROCUREMENT CANADA

Drawing Title/Titre du dessin
**MAIN FLOOR
 HVAC NEW CONSTRUCTION PLAN**

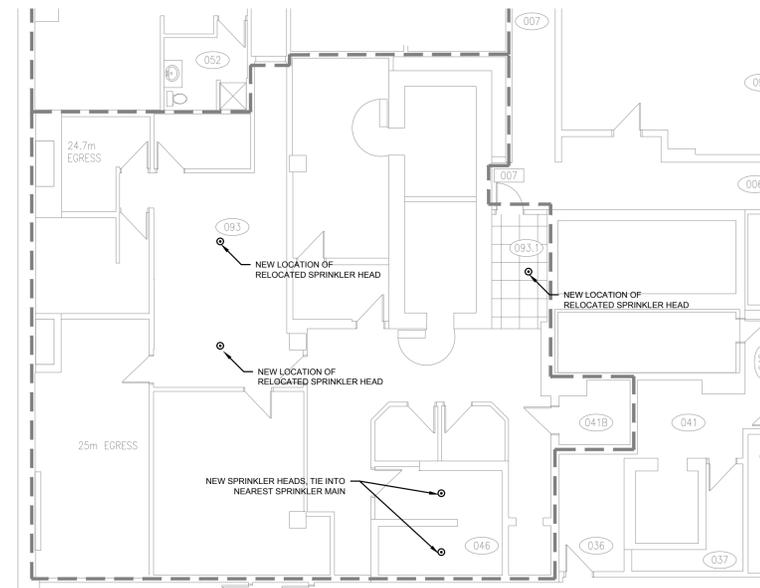
Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
R.060346	M3.1 4 OF 6	0

FIRE PROTECTION SYMBOLS

SYMBOL	DESCRIPTION
—	EXISTING PIPING
— SPR —	NEW SPRINKLER PIPING
○	UPRIGHT SPRINKLER HEAD
⊙	CONCEALED SPRINKLER HEAD
◄	SIDEWALL SPRINKLER HEAD
⊕	RECESSED FIRE EXTINGUISHER CABINET (w/ FIRE EXTINGUISHER)



1 MAIN FLOOR - FIRE PROTECTION PLAN
M4.1 1:100



2 BASEMENT - FIRE PROTECTION PLAN
M1.1 1:100



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Drawing title/Titre du dessin
MAIN FLOOR
FIRE PROTECTION PLAN

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
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FAN COIL SCHEDULE															
TAG	S/A FLOW RATE (L/s)	S/A E.S.P. (Pa)	AIR FLOW (L/s)	HEATING COIL CAPACITY (kW)	HEATING EWT (°C)	HEATING LWT (°C)	HEATING FLUID TYPE	TOTAL COOLING (kW)	SENSIBLE COOLING (kW)	COOLING EWT (°C)	COOLING LWT (°C)	COOLING FLUID TYPE	MOTOR SPEED	ELECTRICAL (kW/VA/PH/Hz)	COMMENTS
FC-152	319	74	319	5.6	82	58	35% P.G.	4.35	4	6.6	15.1	WATER	MEDIUM	5.3 / 120 / 1 / 60	COMPLETE WITH: - RETURN AIR PLENUM w/ 25mm ACOUSTIC LINING, BOTTOM ACCESS, MERV 4 FILTER, INSULATED, SEALED GALVANIZED DRAIN PAN, GALVANIZED CABINET w/ ACOUSTIC LINING, NEOPRENE ISOLATORS, ECM MOTOR w/ THERMAL OVERLOAD PROTECTION
FC-153	319	74	319	5.6	82	58	35% P.G.	4.35	4	6.6	15.1	WATER	MEDIUM	5.3 / 120 / 1 / 60	
FC-154	319	74	319	5.6	82	58	35% P.G.	4.35	4	6.6	15.1	WATER	MEDIUM	5.3 / 120 / 1 / 60	
FC-155	319	74	319	5.6	82	58	35% P.G.	4.35	4	6.6	15.1	WATER	MEDIUM	5.3 / 120 / 1 / 60	
FC-156	319	74	319	5.6	82	58	35% P.G.	4.35	4	6.6	15.1	WATER	MEDIUM	5.3 / 120 / 1 / 60	
FC-157	319	74	319	5.6	82	58	35% P.G.	4.35	4	6.6	15.1	WATER	MEDIUM	5.3 / 120 / 1 / 60	
FC-158	319	74	319	5.6	82	58	35% P.G.	4.35	4	6.6	15.1	WATER	MEDIUM	5.3 / 120 / 1 / 60	

FORCE FLOW SCHEDULE									
TAG	EQUIPMENT TYPE	S/A FLOW RATE (L/s)	HEATING COIL FLOW (L/s)	HEATING COIL CAPACITY (kW)	EWT (°C)	LWT (°C)	FLUID TYPE	ELECTRICAL (FLAV/PH/Hz)	COMMENTS
FF-01	HYDRONIC FORCE FLOW HEATER	94	0.04	4	82	58	35% P.G.	1.9 / 120/1/60	SEMI-RECESSED PROVIDE w/ LOW VOLTAGE THERMOSTAT
FF-02	HYDRONIC FORCE FLOW HEATER	283	0.11	10.9	82	58	35% P.G.	1.9 / 120/1/60	SEMI-RECESSED PROVIDE w/ LOW VOLTAGE THERMOSTAT

FAN SCHEDULE						
TAG	FAN TYPE	AREA SERVED	FLOW RATE (L/s)	E.S.P. (Pa)	HORSEPOWER	ELECTRICAL (V/PH/Hz)
EF-1	CEILING MOUNTED FAN	SINGLE WASHROOM	47	74	FRAC.	120/1/60

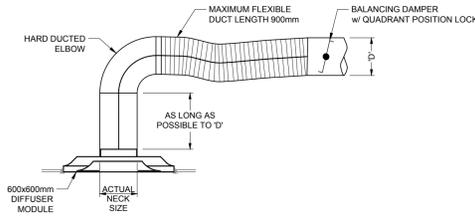
ELECTRIC HUMIDIFIER SCHEDULE				
TAG	AREA SERVED	CAPACITY (KG/HR)	INPUT KW	ELECTRICAL (V/PH/Hz)
HUM-01	PRINT ROOM	1 - 2	1.9	120/1/60

COMMENTS:
- COMPLETE w/ STEAM HOSE FOR IN-DUCT INSTALLATION
- DRAIN WATER AUTO TEMPERING
- TOUCH SCREEN CONTROL PANEL
- REMOTE HUMIDISTAT
- REPLACEABLE STEAM CYLINDERS
- MOUNTING RACK

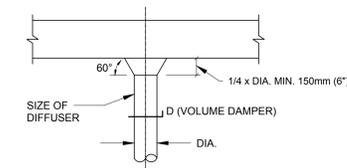
PLUMBING FIXTURE SCHEDULE					
TAG	FIXTURE	DCW SIZE	DHW SIZE	SANITARY SIZE	VENT SIZE
WC-1	WATER CLOSET	120	-	750	400
LAV-1	LAVATORY	120	120	320	320
SK-1	SINK	120	120	400	400

DESCRIPTION:
FLOOR MOUNTED TOILET - VITREOUS CHINA- FLUSHOMETER - EXPOSED - NO TOUCH - HARDWIRED
- American Standard #3461001.020, 'Masters Flow/Right Height Elongated', 419 mm high Toilet, Vitreous china, Floor Mounted, Operates in the range of 4.2 L to 6 L (1.1 US Gal to 1.6 US Gal) per flush, elongated bowl, Siphon jet flush action, Condensate channel, Toilet seat not included.
- Carlon #820TS.001, extra heavy duty Toilet Seat, Solid plastic, open front With cover & backrest.
- Sloan #Royal Optima 111-1.28 ES-S-CP, 'Royal Optima', polished chrome finish, Exposed Flushometer For Top Spud Toilet, 4.8 L (1.28 US Gal) factory set flow.
- Sloan #EL-154, Hardwired Transformer.
- Sloan TP Trap primer for top spud toilet flush valve activated during flush valve operation, provides a small amount of water to floor drain, only one needed per bathroom
- Provide Floor Flange, (Same material as the connecting pipe drain), with all brass bolts and with rubber gasket.
- Sensor to clear toilet seat cover
- Provide 4" (102 mm) square electrical box for mounting sensor plate.
- Will operate up to 10 'Optima' flush valve units.
COUNTER MOUNTED SELF-RIMMING / DROP-IN BASIN FAUCET BELOW DECK MECHANICAL WATER MIXING VALVE.
- American Standard #9494.001.020 'Cade' Universal Access' Basin, White Finish, Self-rimming / Drop-in.
- Sloan #SP-2300, SP-2300 Series, Electronic Faucet.
- Sloan #SPF-4, Plug-in Transformer.
- Lawler #TMM-1070, Below Deck Mechanical Water Mixing Valve, Integral checks.
- McGuire #155WC Offset Open Grid Drain.
- McGuire #LFH1708V, polished brass Faucet Supplies.
- McGuire #8872C, offset P-Trap.
- McGuire #PROWRAP #PW2000WC Sanitary Covering.
- Provide electrical duplex box with ground fault interrupter.
- Provide tee, adaptors and flex, copper tubing to suit installation.
COUNTER MOUNTED COUNTERTOP MOUNT SINK- SINGLE HANDLE FAUCETBELOW DECK MECHANICAL WATER MIXING VALVE
- Franke Commercial #LBS608-111, Countertop Mount Sink.
- American Standard #4175100.002, 'Colony Soft', Single handle Faucet.
- Lawler #TMM-1070, Below Deck Mechanical Water Mixing Valve, Integral checks.
- McGuire #LFV170, polished brass Faucet Supplies.
- McGuire #8912CB, P-Trap.
- Provide tee, adaptors and flex, copper tubing to suit installation.
- Provide tempered water to hot side of faucet.

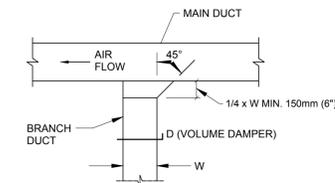
GRILL, DIFFUSER, & DUCT ACCESSORY SCHEDULE					
TAG	DIFFUSER TYPE	SIZE	MOUNTING TYPE	COLOUR	DESCRIPTION
S-01	SQUARE PLAQUE DIFFUSER	24"x24"	T-BAR LAY IN	B12	
S-02	LINEAR SLOT SUPPLY GRILL	60" x 2 SLOT	T-BAR LAY IN	B12	
R-01	EGG CRATE RETURN GRILLE	24"x24"	T-BAR LAY IN	B12	
R-02	EGG CRATE RETURN GRILLE	12"x24"	T-BAR LAY IN	B12	
R-03	RETURN AIR SILENCER	12"x12			TO BE MOUNTED WITHIN CEILING SPACE IN FULL HEIGHT WALLS FOR TRANSFER AIR TO ADJACENT SPACE.
E-01	SINGLE DEFLECTION EXHAUST GRILLE		DUCT MOUNT	B12	
E-02	DUCTED EGG CRATE EXHAUST GRILLE	300x300	DRYWALL CEILING MOUNT	B12	
MSBG-1	DUCT MOUNTED MAXIMUM SECURITY BAR GRILLE	500x400	DUCT MOUNT	-	MAXIMUM SECURITY BAR GRILLE FOR INLINE DUCT INSTALLATION. CONFIRM EXACT DUCT SIZE AND CONNECTION TYPE
MSBG-2	DUCT MOUNTED MAXIMUM SECURITY BAR GRILLE	900x500	DUCT MOUNT	-	MAXIMUM SECURITY BAR GRILLE FOR INLINE DUCT INSTALLATION. CONFIRM EXACT DUCT SIZE AND CONNECTION TYPE
MSBG-3	DUCT MOUNTED MAXIMUM SECURITY BAR GRILLE	350x200	DUCT MOUNT	-	MAXIMUM SECURITY BAR GRILLE FOR INLINE DUCT INSTALLATION. CONFIRM EXACT DUCT SIZE AND CONNECTION TYPE
MSBG-4	DUCT MOUNTED MAXIMUM SECURITY BAR GRILLE	200x200	DUCT MOUNT	-	MAXIMUM SECURITY BAR GRILLE FOR INLINE DUCT INSTALLATION. CONFIRM EXACT DUCT SIZE AND CONNECTION TYPE
MSBG-5	DUCT MOUNTED MAXIMUM SECURITY BAR GRILLE	250x250	DUCT MOUNT	-	MAXIMUM SECURITY BAR GRILLE FOR INLINE DUCT INSTALLATION. CONFIRM EXACT DUCT SIZE AND CONNECTION TYPE



1 CEILING DIFFUSER CONNECTION DETAIL
M5.1 NTS

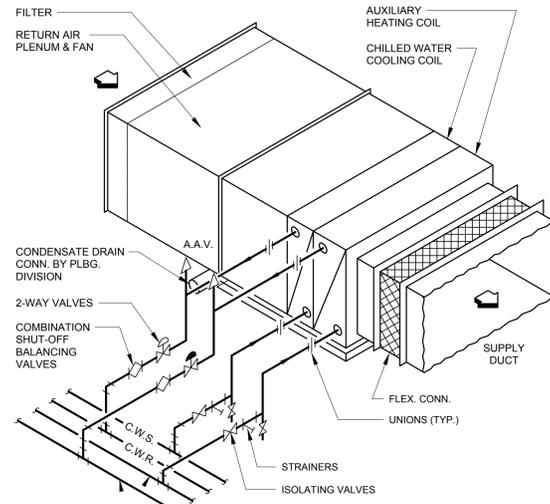


TYPICAL ROUND BRANCH DUCT TAKE-OFF
N.T.S.



TYP. RECTANGULAR BRANCH DUCT TAKE-OFF
N.T.S.

2 DUCT CONNECTION DETAIL
M5.1 NTS



3 4 PIPE FAN COIL CONNECTION DETAIL
M5.1 NTS



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Drawing Title/Titre du dessin
**MECHANICAL DETAILS
EQUIPMENT SCHEDULES**

Project No./No. du projet
R.060346

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La Révision
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