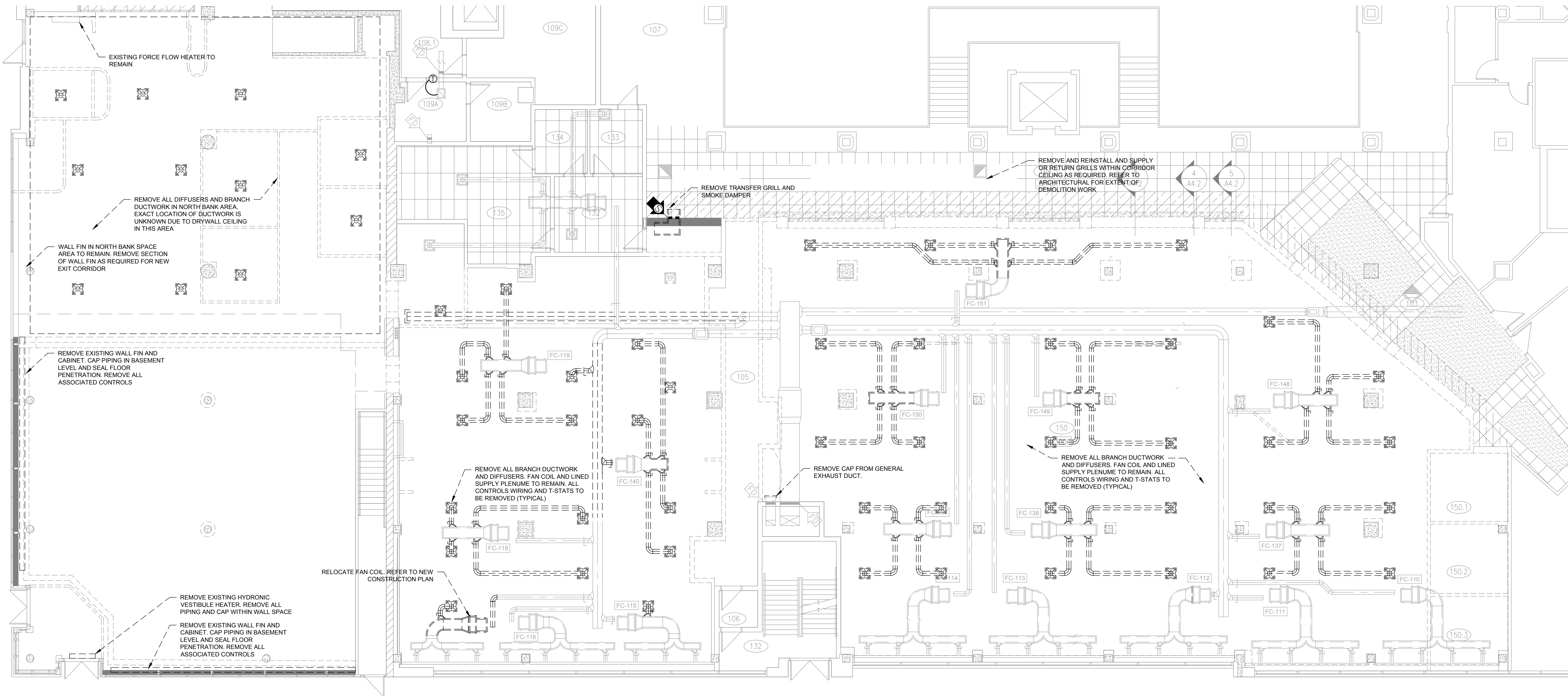
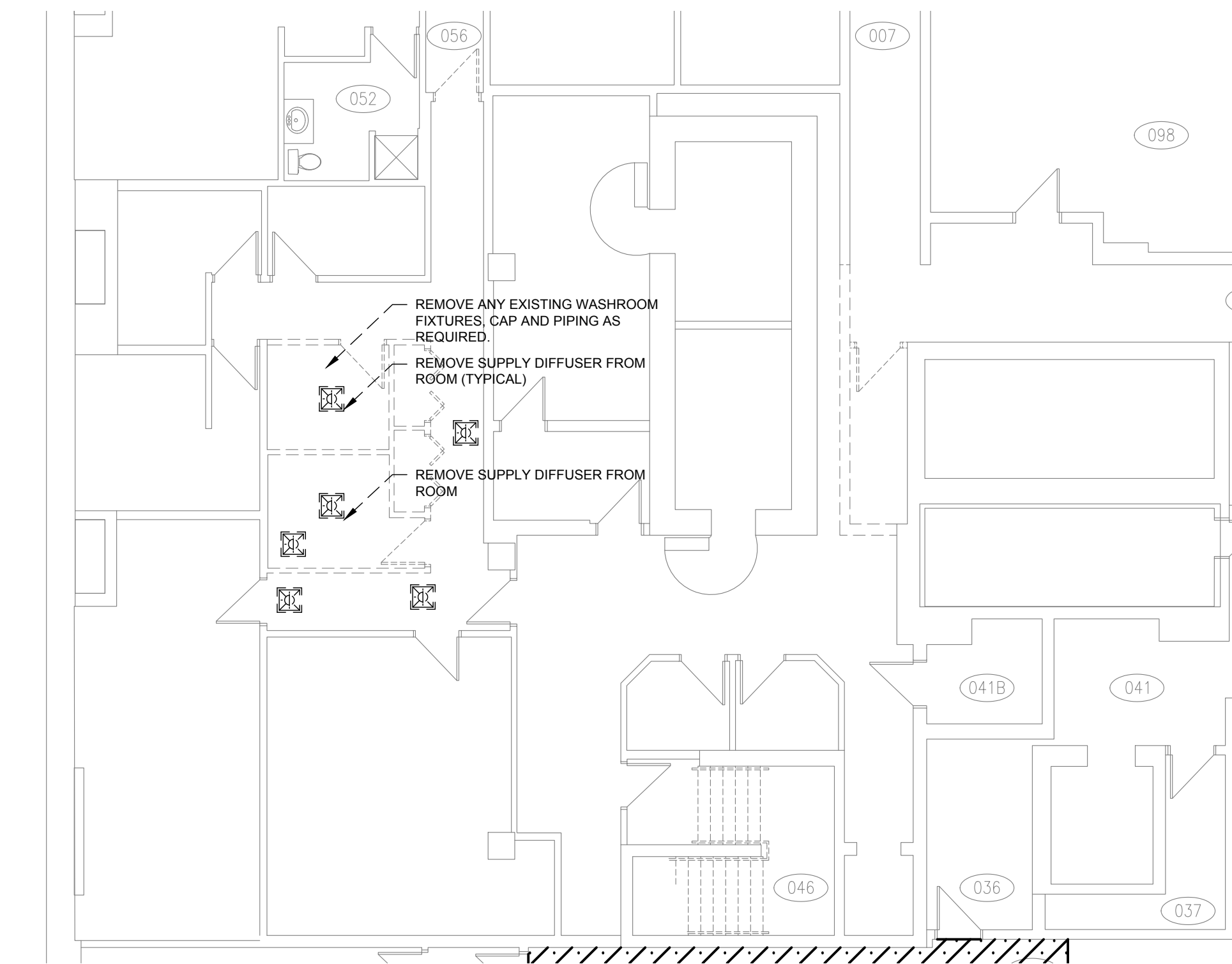


- GENERAL DEMOLITION NOTES:**
1. REMOVE ALL EXISTING SQUARE PLAQUE DIFFUSERS AS SHOWN.
 2. ALL EXISTING LINEAR SLOT DIFFUSERS TO BE REMOVED AND RE-INSTALLED IN NEW CEILING GRID. EXISTING CONTINUOUS SLOT TO BE REUSED.
 3. TEMPORARILY REMOVE TRANSFER DUCTS OUT OF SPACE WITHIN SMOKE SEPARATION. SMOKE DAMPERS TO BE REMOVED AND 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 CONTROLS 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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Revision/Revisions	Description/Descriptions	Date/Date
1		
0	ISSUED FOR TENDER	2021/03/17

**PUBLIC SERVICES AND
PROCUREMENT CANADA**

Projet/Titre du projet
1783 HAMILTON STREET
REGINA, SASKATCHEWAN

**ESDC - PPT REGINA
AMALGAMATION**

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Client/client
PUBLIC SERVICES AND PROCUREMENT CANADA

Drawing title/Titre du dessin
HVAC DEMOLITION PLAN

Project No./No. du projet
R.060346

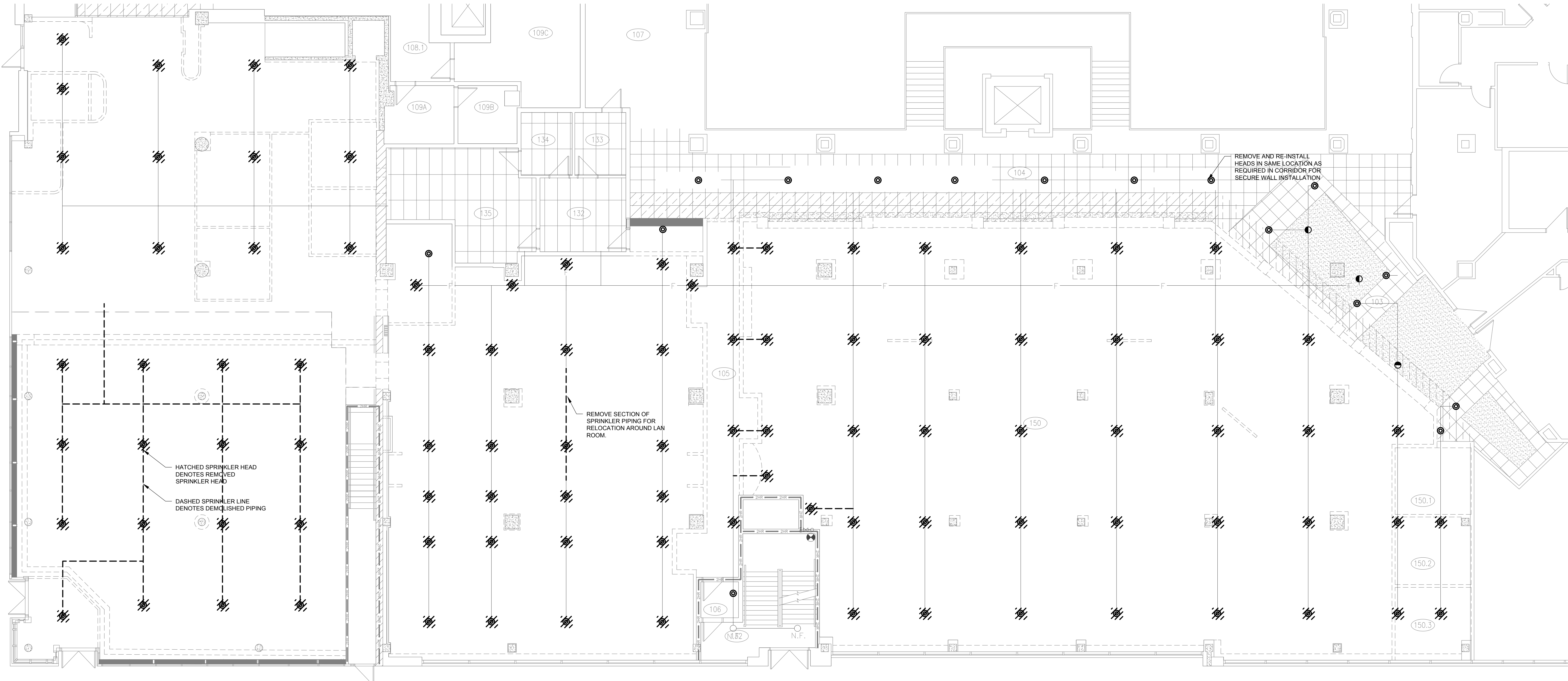
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1 OF 6

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La révision
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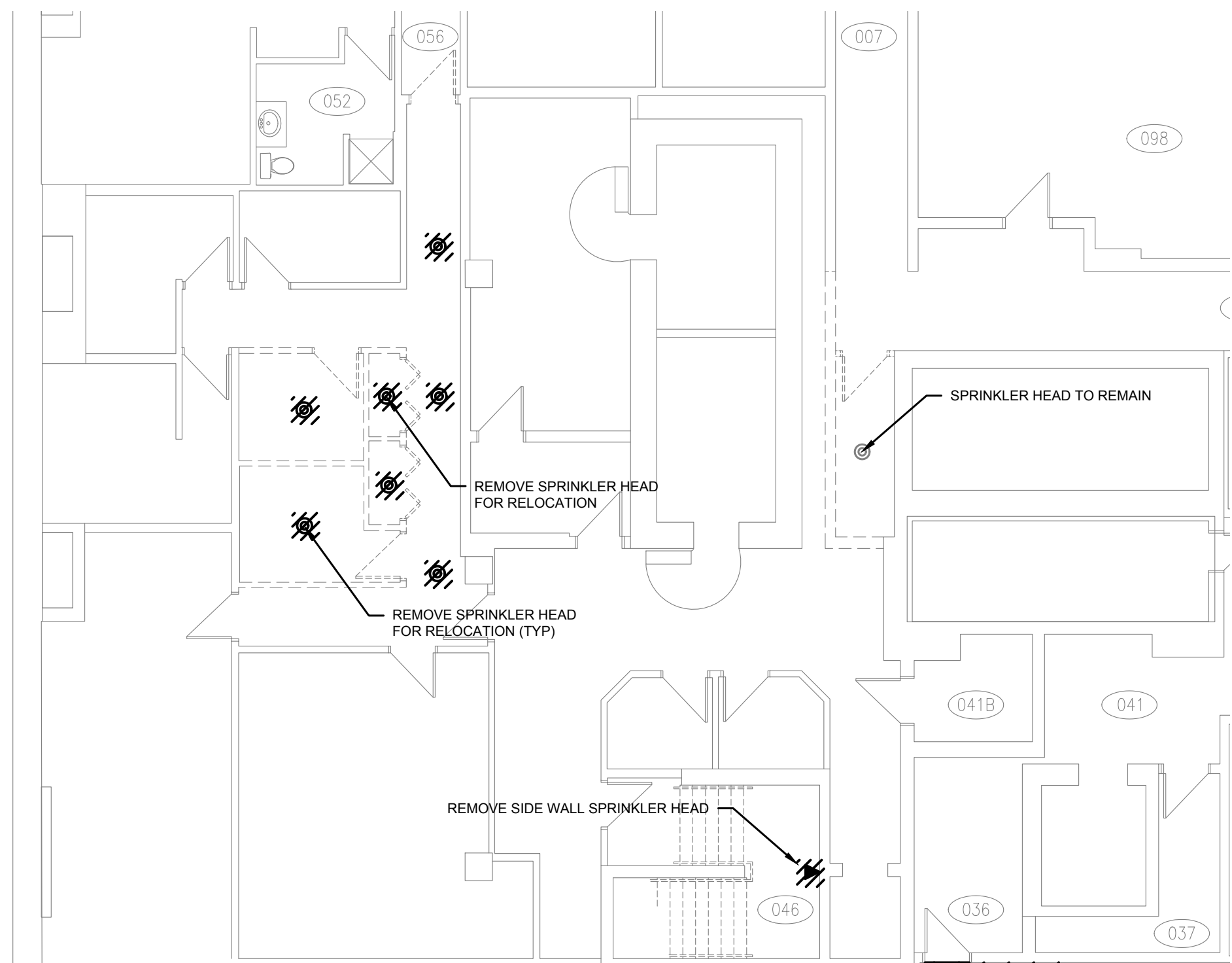
FIRE PROTECTION SYMBOLS

SYMBOL	DESCRIPTION
	EXISTING PIPING
	EXISTING PIPING REMOVED
	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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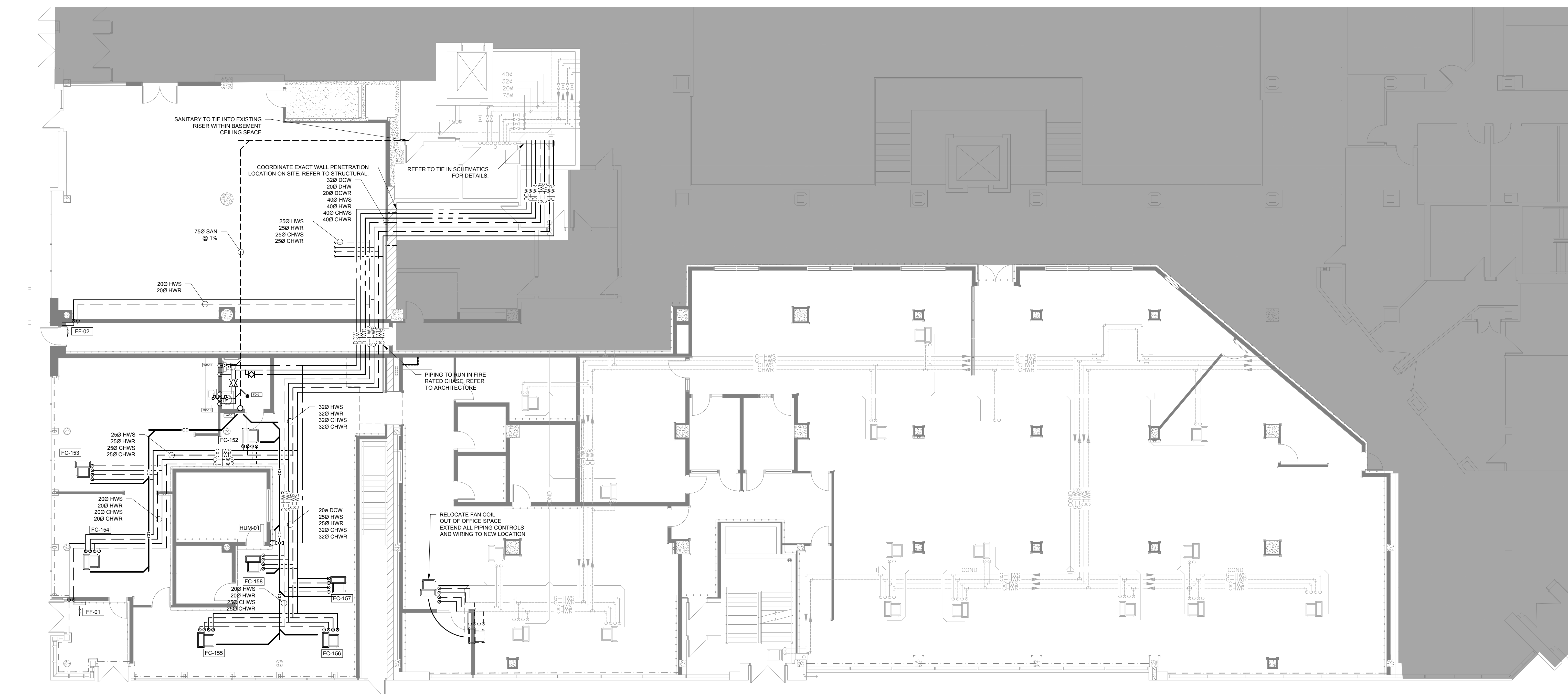
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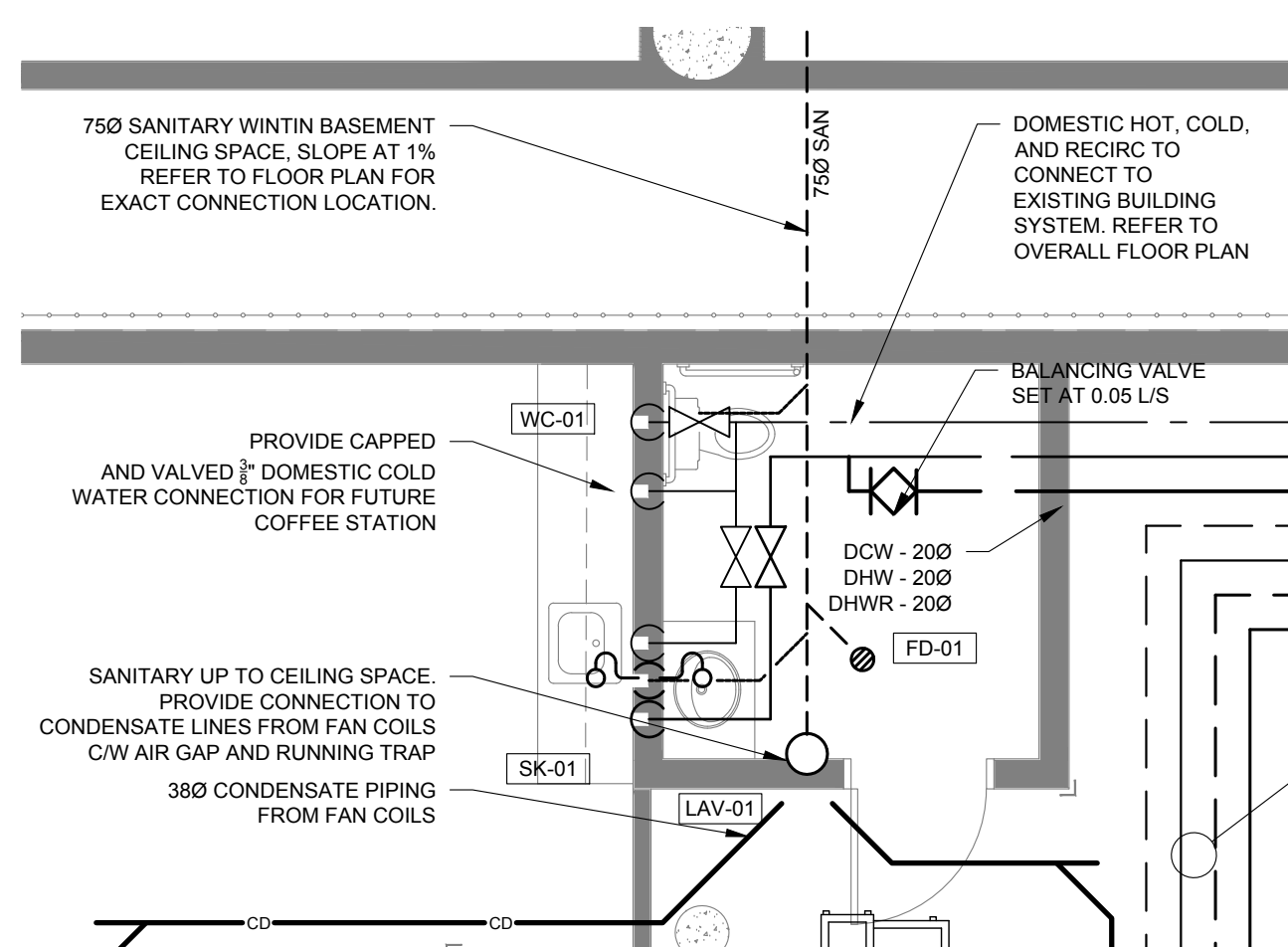
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MAIN FLOOR
FIRE PROTECTION DEMOLITION

Project No./No. du projet	Sheet/Feuille	Revision no./ La révision no.
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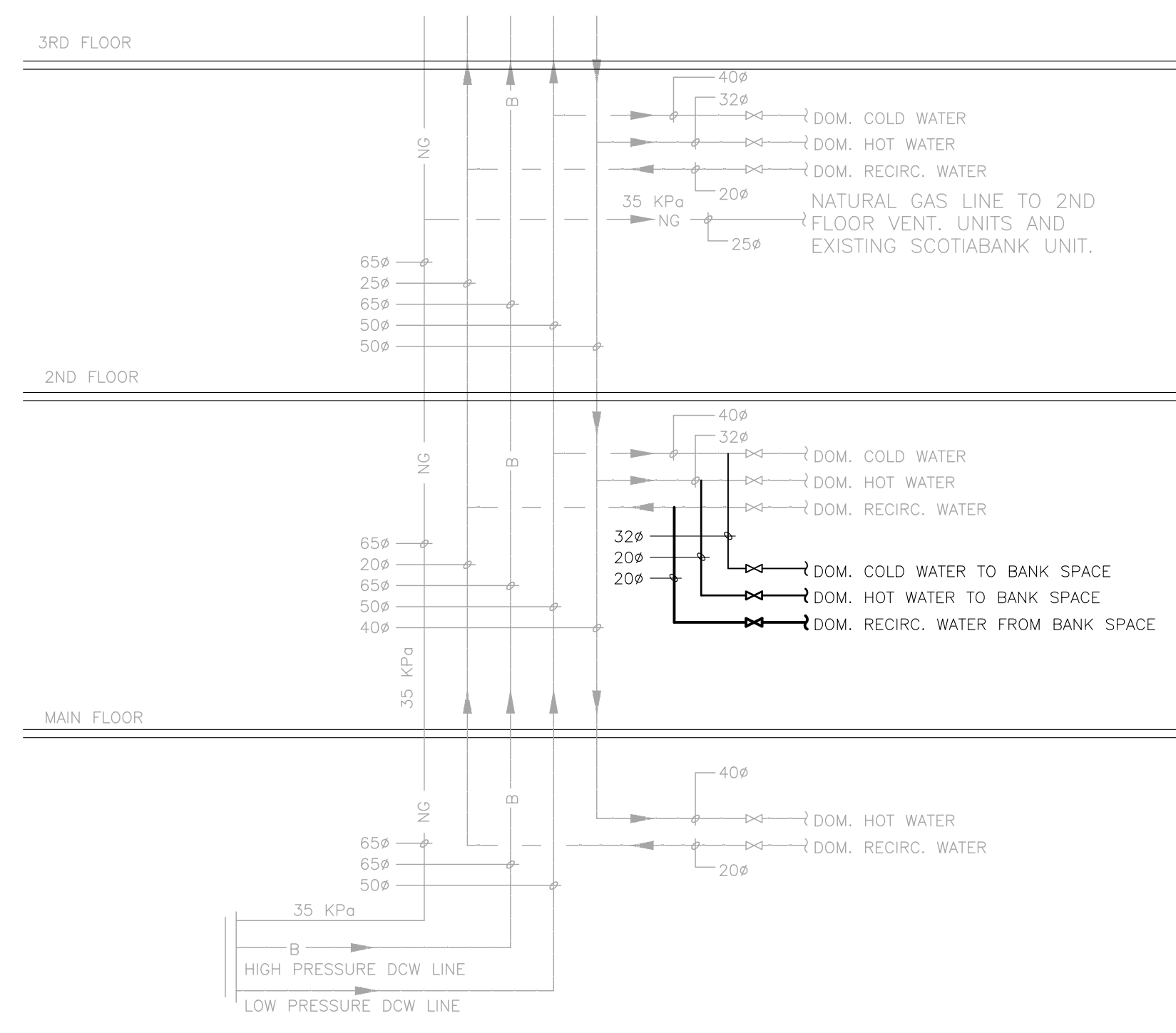
- GENERAL PLUMBING & HYDRONIC NOTES:**
1. REFER TO PIPE SECTION DETAIL FOR PIPE RUN ORIENTATION.
 2. REFER TO FAN COIL CONNECTION DETAIL FOR ALL REQUIRED VALVING.
 3. NEW SANITARY LINE TO BE ROUTED THROUGH BASEMENT. ENSURE MINIMUM SLOPE OF 1% IS MET.
 4. PROVIDE ISOLATION VALVES ON ALL PLUMBING FIXTURES.
 5. PROVIDE 250 VALVED AND CAPPED HEATING AND CHILLED WATER LINES WITHIN CEILING SPACE OF NORTH BANK AREA.
 6. ALL CONDENSATE LINES TO DRAIN BY GRAVITY TO CENTRAL DRAINAGE POINT.
 7. SLOPE CONDENSATE LINE TO MAINTAIN A MINIMUM OF 1%.
 8. FORCE FLOWS TO BE SEMI-RECIRCULATED. REFER TO ARCHITECTURE FOR FORCE FLOW RECESSED INTO SECURE WALL.



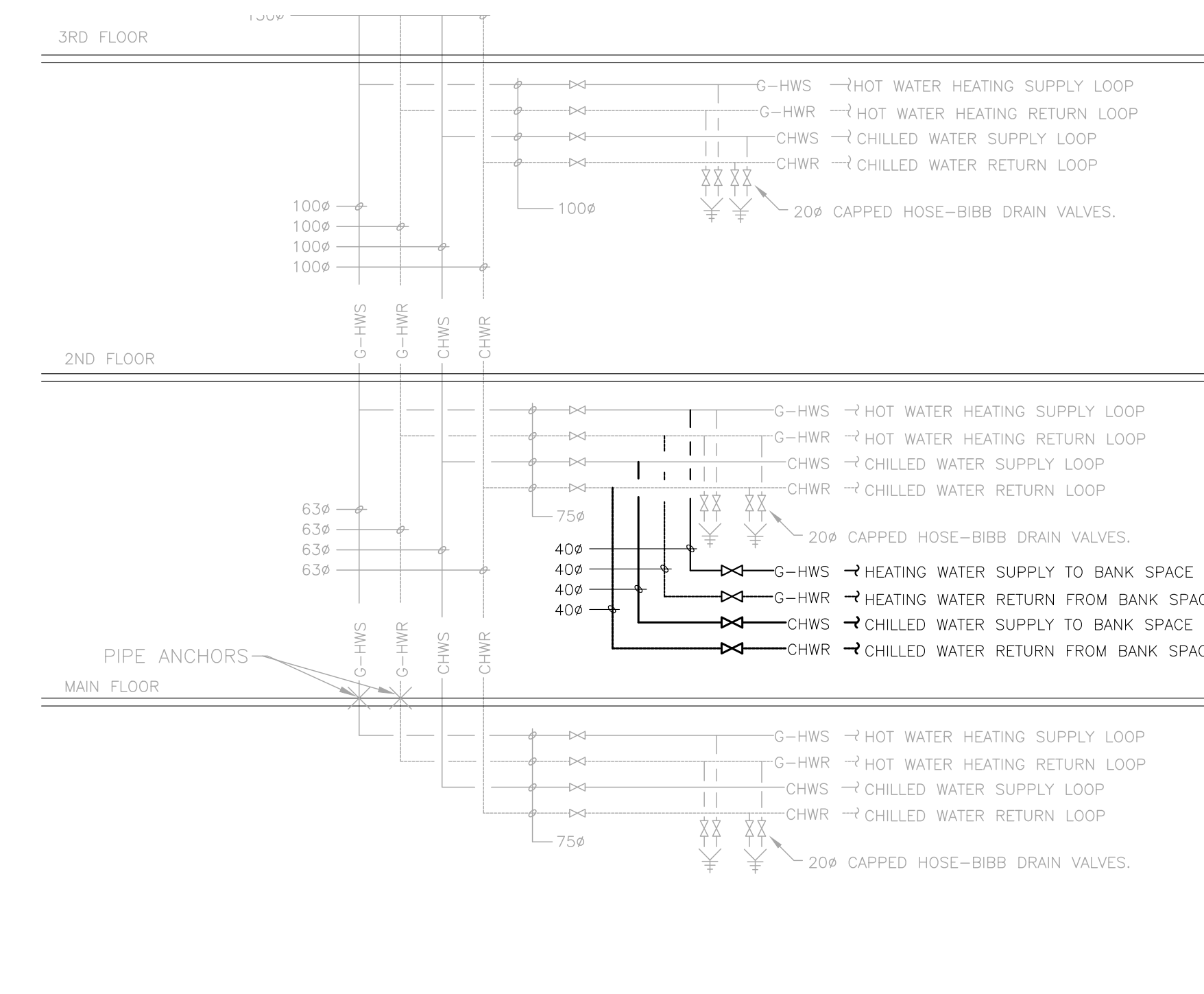
1 MAIN FLOOR - PLUMBING & HYDRONIC PLAN
M2.1 1:100



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



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Revision	
Client/other	

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HEATING & CHILLED WATER SYSTEM PLUMBING TIE-IN SCHEMATICS

Project No. /No. du projet:

R.060346

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M2.1

3 OF 6

Berkley, ca. /

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- 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 LOOKING 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



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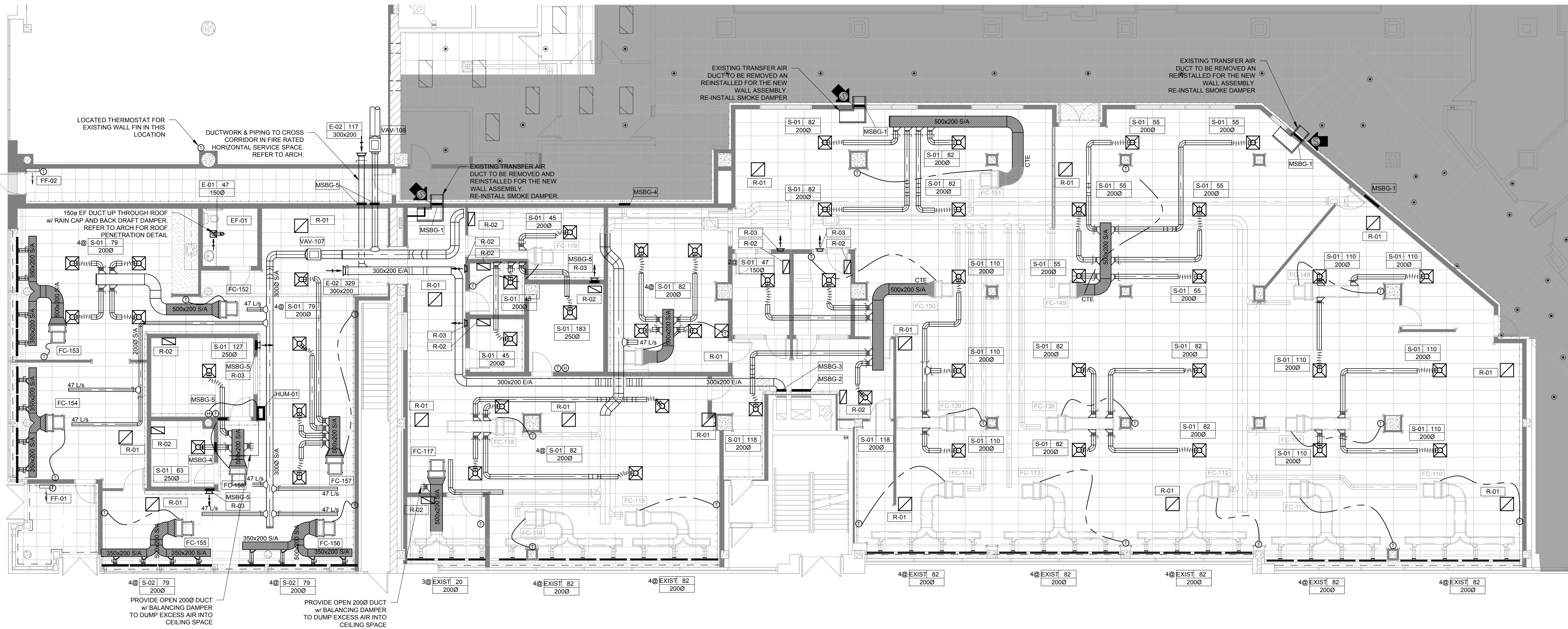
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MAIN FLOOR
HVAC NEW CONSTRUCTION PLAN

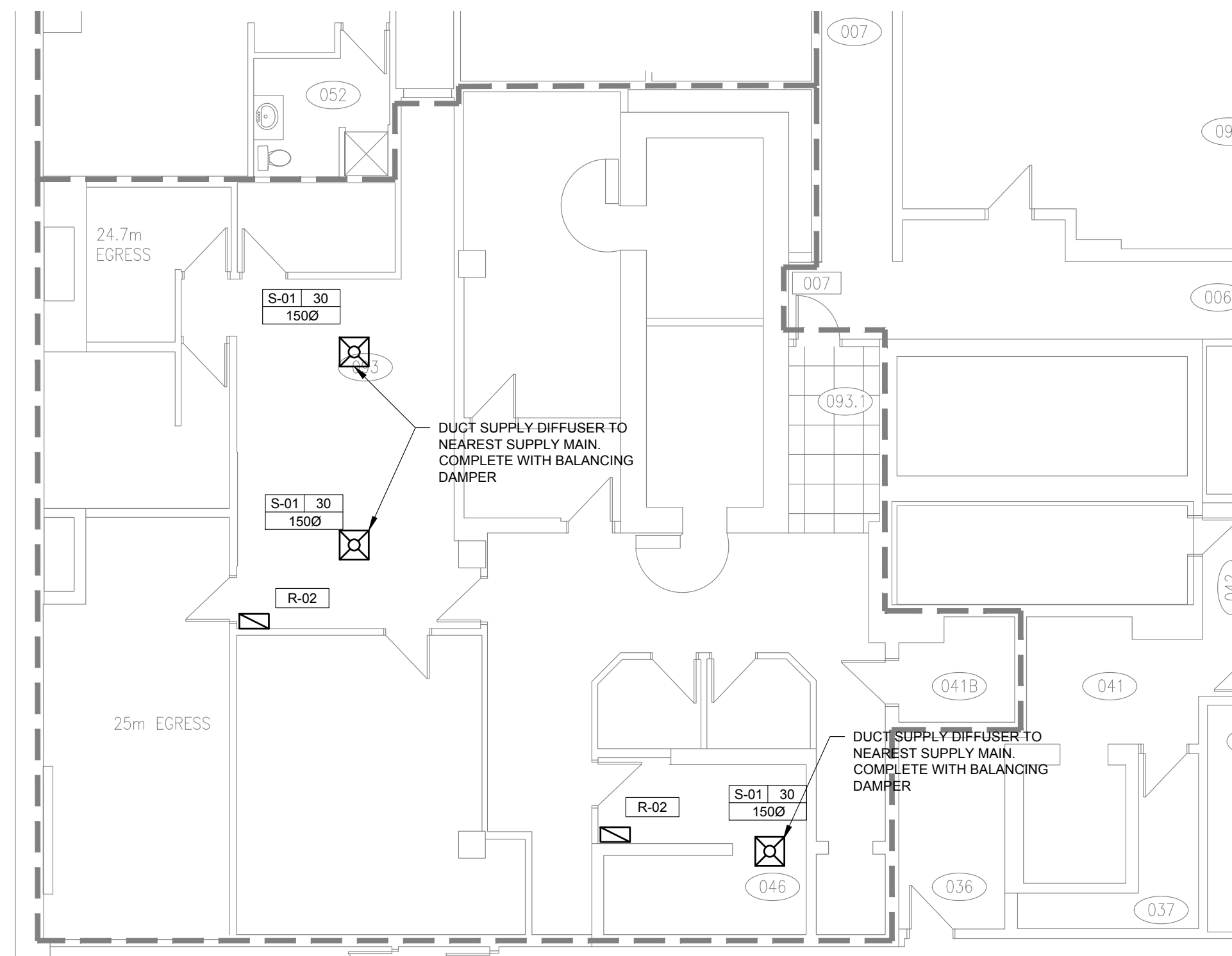
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1 MAIN FLOOR - HVAC CONSTRUCTION PLAN
M3.1 1:100



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

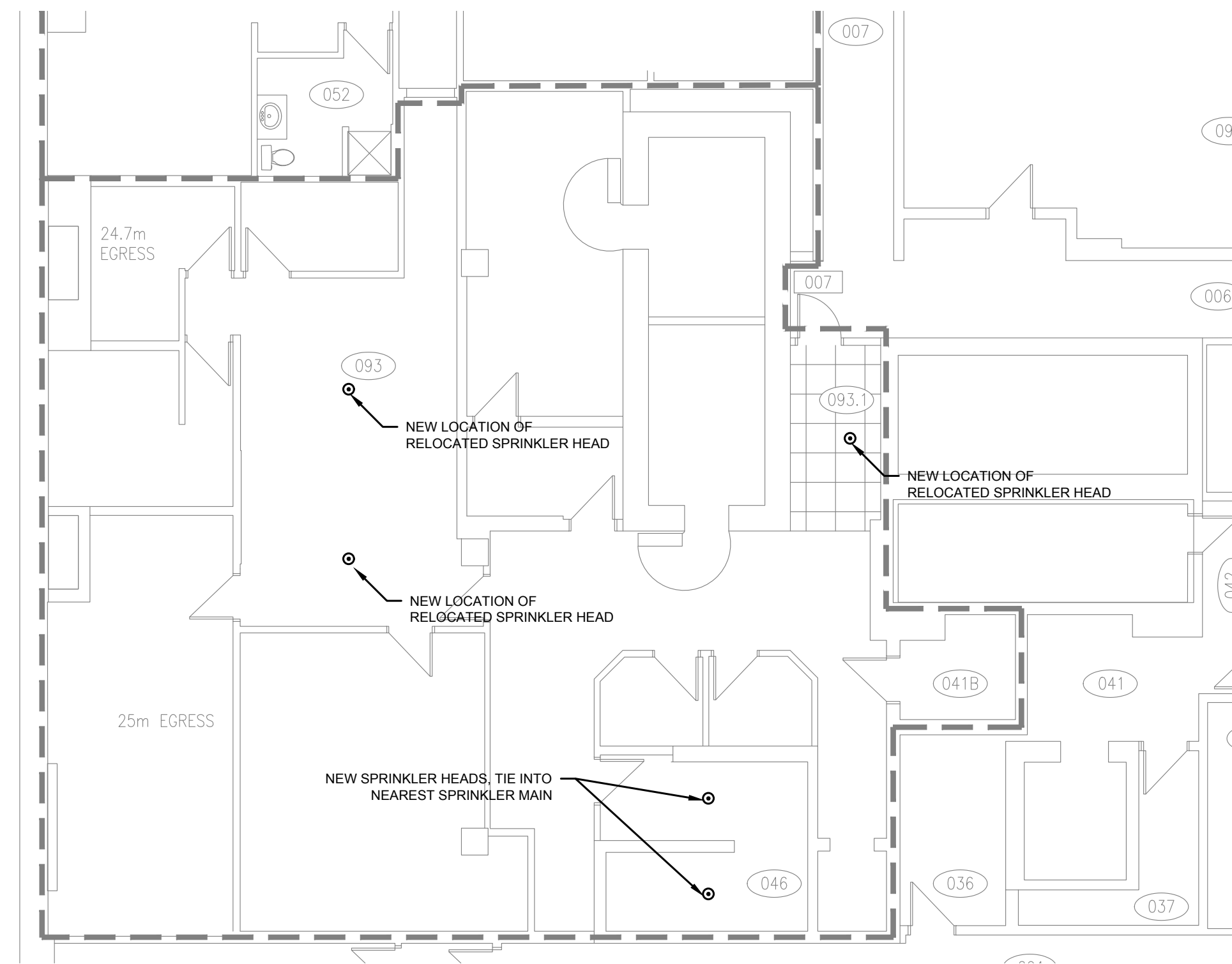
HVAC SYMBOLS

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)

FIRE PROTECTION SYMBOLS	
SYMBOL	DESCRIPTION
	EXISTING PIPING
	EXISTING PIPING REMOVED
	NEW SPRINKLER PIPING
	UPRIGHT SPRINKLER HEAD
	CONCEALED SPRINKLER HEAD
	SIDEWALL SPRINKLER HEAD
	RECESSED FIRE EXTINGUISHER CABINET (w/ FIRE EXTINGUISHER)

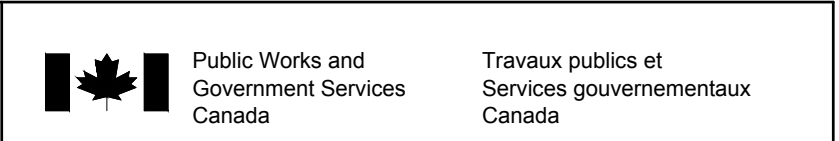


1 MAIN FLOOR - FIRE PROTECTION PLAN
M4.1 1:100



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






Public Works and
Government Services
Canada

Travaux publics et
Services gouvernementaux
Canada

REAL PROPERTY SERVICES
Western Region
SERVICES IMMOBILIERS
Région de l'ouest



Association of Professional Engineers & Geoscientists
of Saskatchewan
CERTIFICATE OF AUTHORIZATION
WSP Canada Inc.
Member Code: 14867
Discipline: Mechanical
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1783 HAMILTON STREET
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AMALGAMATION


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PUBLIC SERVICES AND PROCUREMENT CANADA
Drawing title/Titre du dessin
MAIN FLOOR
FIRE PROTECTION PLAN

Project No./No. du projet
R.060346

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M4.1
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La révision
no.
0

PWSC - B1 - 1000C707

201-08499-00 ESDC PPT Regina Amalgamation - Mechanical 

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)	EWI (°C)	LWT (°C)	FLUID TYPE	ELECTRICAL (FLA/V/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.	120V/1/60

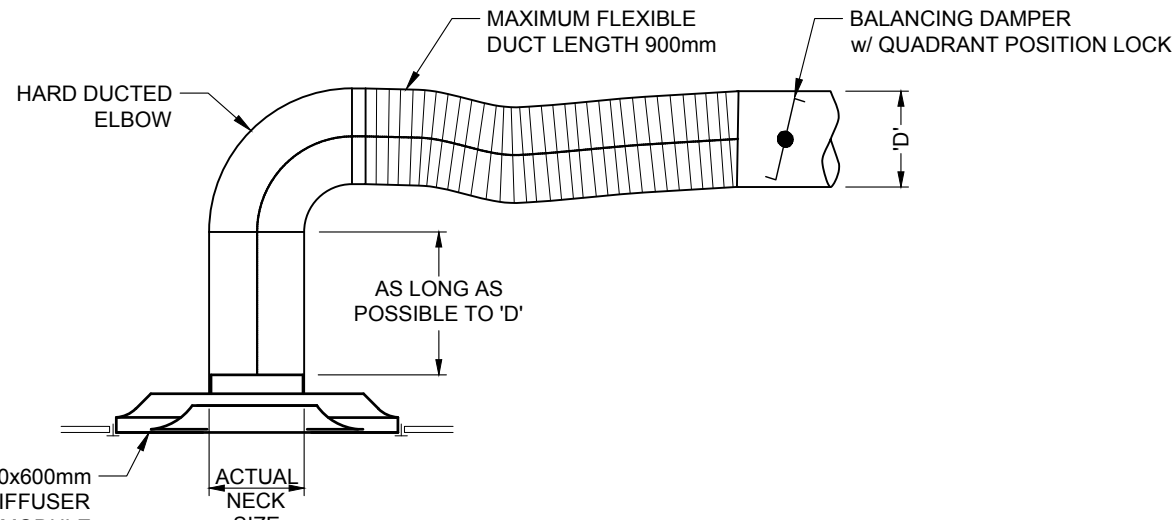
PROVIDE w/ BACK DRAFT DAMPER AND ROOF CAP

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

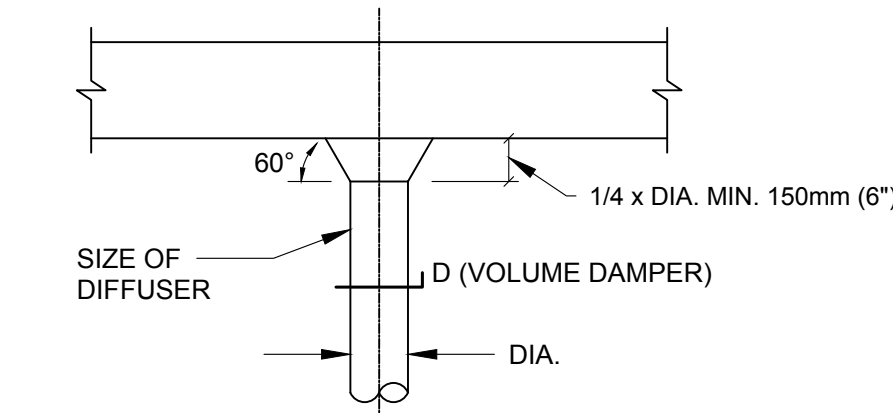
- COMPLETE w/ STEAM HOSE FOR IN-DUCT INSTALLATION
- DRAIN WATER AUTO TEMPERING
- TOUCH SCREEN CONTROL PANEL
- REMOTE HUMIDSTAT
- REPLACEABLE STEAM CYLINDERS
- MOUNTING RACK

TAG	FIXTURE	DCW SIZE	DHW SIZE	SANITARY SIZE	VENT SIZE	DESCRIPTION
WC-1	WATER CLOSET	120	-	750	400	FLOOR MOUNTED TOILET - VITREOUS CHINA- FLUSHOMETER - EXPOSED - NO TOUCH - HARDWIRED - American Standard #3461001.020, 'Madera Flowise 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. - Centroc #B205TS.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.
LAV-1	LAVATORY	120	120	320	320	COUNTER MOUNTED SELF-RIMMING / DROP-IN BASIN FAUCET BELOW DECK MECHANICAL WATER MIXING VALVE. - American Standard #9494.001.020 'Cadet Universal Access' Basin, White Finish, Self-rimming / Drop-in. - Sloan #SP-200, SP-200 Series, Electronic Faucet. - Sloan #SP-2, Plug-in Transformer. - Lawler #TMM-1070, Below Deck Mechanical Water Mixing Valve, Integral checks. - McGuire #155WC Offset Open Grid Drain. - McGuire #LFH1705V, polished brass Faucet Supplies. - McGuire #8872C, offset P-Trap. - McGuire #PCOWRAP* #PWQ2000WC Sanitary Covering. - Provide electrical duplex box with ground fault interrupter. - Provide tee, adaptors and flex. copper tubing to suit installation.
SK-1	SINK	120	120	400	400	COUNTER MOUNTED COUNTERTOP MOUNT SINK- SINGLE HANDLE FAUCETBELOW DECK MECHANICAL WATER MIXING VALVE. - Franke Commercial #BS6808-1/1, Countertop Mount Sink. - American Standard #4175100.002, 'Colony Soft', Single handle Faucet. - Lawler #TMM-1070, Below Deck Mechanical Water Mixing Valve, Integral checks. - McGuire #FBV170, polished brass Faucet Supplies. - McGuire #B912CB, P-Trap. - Provide tee, adaptors and flex. copper tubing to suit installation. - Provide tempered water to hot side of faucet.

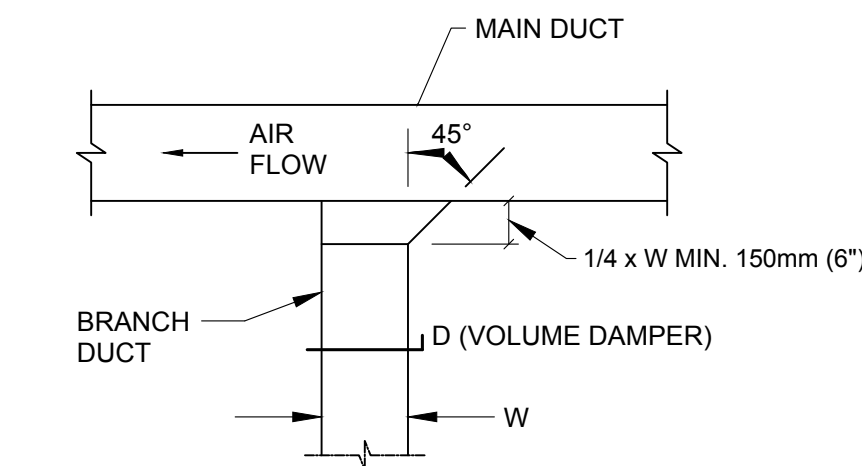
TAG	DIFFUSER TYPE	SIZE	MOUNTING TYPE	COLOUR	DESCRIPTION
S-01	SQUARE PLAQUE DIFFUSER	24"x24"	T-BAR LAY IN	B12	
S-02	LINEAR SLOT SUPPLY GRILL	60" 2 SLOT	T-BAR LAY IN	B12	
R-01	EGG CRATE RETURN GRILLE	24"x24"	T-BAR LAY IN	B12	
R-02	EGG CRATE RETURN GRILLE	12"x24"	T-BAR LAY IN	B12	
R-03	RETURN AIR SILENCER	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 GRILL 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 GRILL 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 GRILL 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 GRILL 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 GRILL FOR INLINE DUCT INSTALLATION. CONFIRM EXACT DUCT SIZE AND CONNECTION TYPE



1 CEILING DIFFUSER CONNECTION DETAIL
M5.1 NTS

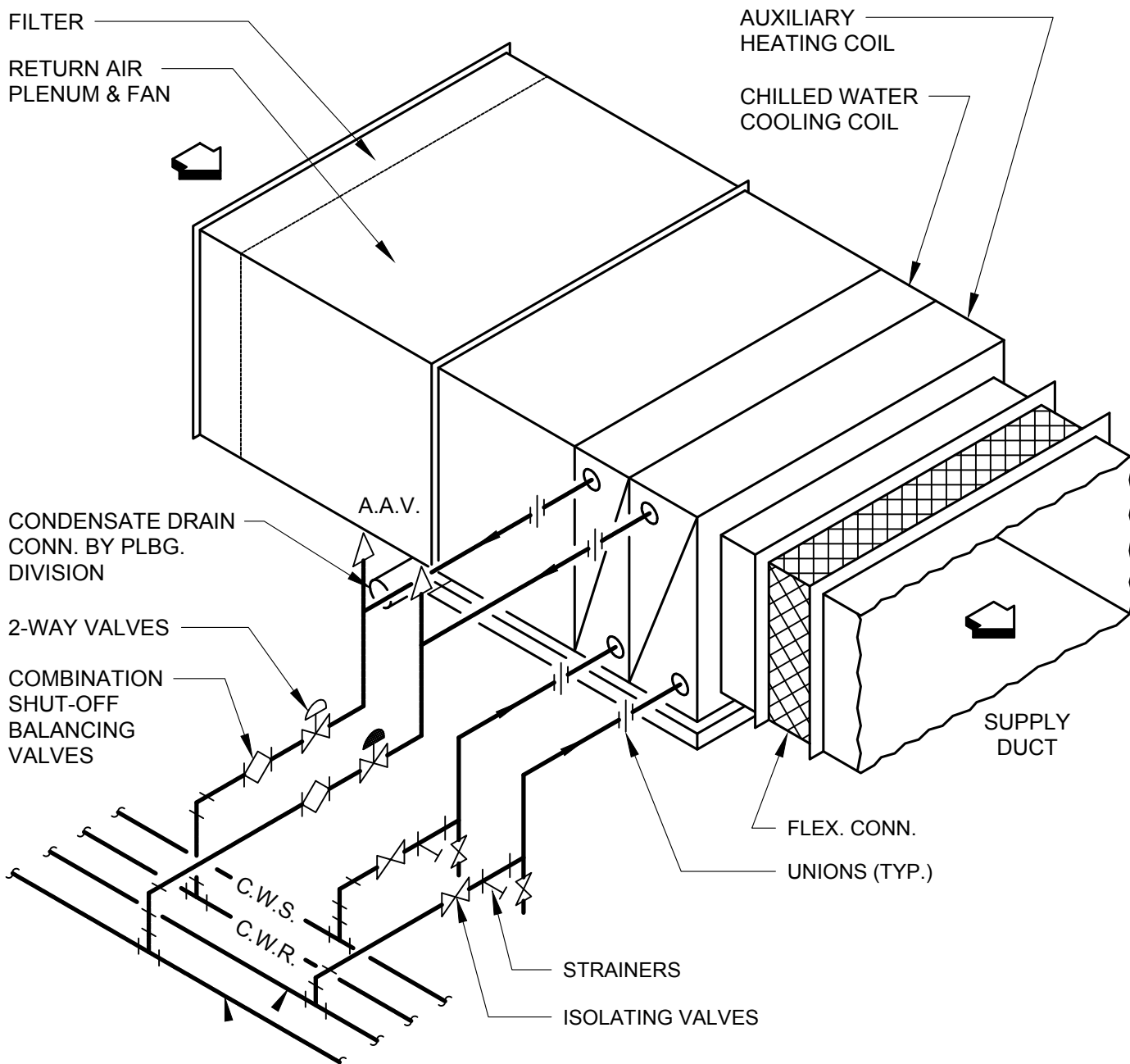


TYPICAL ROUND BRANCH DUCT TAKE-OFF
N.T.S.



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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**MECHANICAL DETAILS
EQUIPMENT SCHEDULES**