

DRAWING LIST AND GENERAL NOTES

MECHANICAL DRAWING LIST

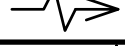
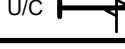
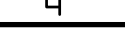
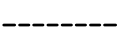
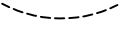
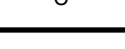
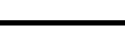
M0.01	DRAWING LIST, LEGEND & GENERAL NOTES	N.T.S
M1.01	LEVEL 1 WASHROOM HVAC PLANS	1:75
M1.02	LEVEL 1 HVAC PLAN	1:75
M1.03	LEVEL 2 HVAC PLAN	1:75
M1.04	ROOF HVAC PLAN	1:75
M1.05	LEVEL 1 HVAC DEMO PLAN	1:75
M5.01	LEVEL 1 WASHROOM FIRE PROTECTION PLANS	1:75
M5.02	LEVEL 1 FIRE PROTECTION PLAN	1:75
M5.03	LEVEL 2 FIRE PROTECTION PLAN	1:75
M5.04	LEVEL 1 FIRE PROTECTION DEMO PLAN	1:75
P1.01	LEVEL 1 WASHROOM PLUMBING PLANS	1:75
P1.02	LEVEL 1 PLUMBING PLAN	1:75
P1.03	LEVEL 2 PLUMBING PLAN	1:75
P1.04	LEVEL 1 PLUMBING DEMO PLAN	1:75
M6.01	MECHANICAL SCHEDULES	N.T.S
M6.02	VRF SCHEMATIC	N.T.S
M6.03	MECHANICAL DETAILS	N.T.S

GENERAL MECHANICAL NOTES:

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS.
2. DO NOT SCALE DRAWINGS. LOCATIONS OF ITEMS ARE APPROXIMATE AND ARE INTENDED TO BE USED FOR COORDINATION. EXACT LOCATIONS ARE DEPENDANT UPON SITE CONDITIONS. REVIEW ANY REVISIONS WITH CONSULTANT.
3. ALL EXISTING EQUIPMENT TO REMAIN SHALL BE INSPECTED AND TESTED FOR PROPER OPERATIONS.

MECHANICAL LEGEND

NOT ALL SYMBOLS SHOWN ON THIS LEGEND ARE NECESSARILY USED ON THIS PROJECT.

	SUPPLY DUCT UP		CHILLED WATER SUPPLY
	RETURN DUCT UP		CHILLED WATER RETURN
	EXHAUST DUCT UP		NEW COLD WATER LINE
	RETURN AIR FLOW ARROW		EXISTING COLD WATER LINE
	UNDERCUT		NEW HOT WATER LINE
	SUPPLY AIR DIFFUSER		EXISTING HOT WATER LINE
	RETURN AIR GRILLE		NEW SANITARY LINE (ABOVE FLOOR)
	EXHAUST AIR GRILLE		EXISTING SANITARY LINE (ABOVE FLOOR)
	SIDE WALL GRILLE		NEW SANITARY LINE (BELOW FLOOR OR BURIED)
	LINEAR DIFFUSER		EXISTING SANITARY LINE (BELOW FLOOR OR BURIED)
	SPIN-ON CONNECTION C/W BALANCING DAMPER		CLEANOUT PLUG
	EXISTING DUCTWORK		TRAP
	SQUARE TO ROUND TRANSITION		GATE VALVE
	EXTERNAL INSULATION DUCTWORK		BALL VALVE
	TRANSFER AIR DUCT		ELBOW, UP
	BALANCING DAMPER		ELBOW, DOWN
	BACKDRAFT DAMPER		SEMI-RECESSED SPRINKLER
	SMOKE DAMPER / FIRE DAMPER		CONCEALED SPRINKLER
	EXISTING DUCTWORK (SINGLE LINE)		UPRIGHT SPRINKLER
	NEW FLEXIBLE DUCTWORK		DRY SPRINKLER HEAD
	EXISTING FLEXIBLE DUCTWORK		EXISTING SPRINKLER
	NEW THERMOSTAT		EXISTING FIRE HOSE CABINET
	NEW THERMOSTAT		NEW FIRE HOSE CABINET
	EXISTING THERMOSTAT		EXISTING FIRE EXTINGUISHER
	NEW THERMOSTAT CONTROL LINE		NEW FIRE EXTINGUISHER
	CAP		FIRE SUPPLY
	CONDENSATE		REMOVED OR RELOCATED
	NEW REFRIGERANT LIQUID LINE		DEMOLISHED EQUIPMENT
	NEW REFRIGERANT SUCTION LINE		CONNECT TO EXISTING



VPCH OFFICE EXPANSION

155 QUEEN ST NORTH
HAMILTON, ONTARIO



25 Main Street West
Hamilton, Ontario
L8P 1H1 Canada
T: 905-522-0220



MCW Consultants Ltd.
207 Queen's Quay West, Suite 615, Toronto, ON, M5J 1A7
E-Mail: mcw_tor@mcw.com www.mcw.com
Tel: 416-598-2920 Fax: 416-598-5394
Toronto Vancouver Winnipeg Moncton Ottawa Halifax
Dauphin Kelowna Trail Saint John

04	Issued for Tender	2023.09.08
03	Issued for Building Permit	2023.04.21
02	Issued for Review	2023.03.03
01	Issued for Review	2022.11.23
No.:	Issues / Revisions	YYYY.MM.DD

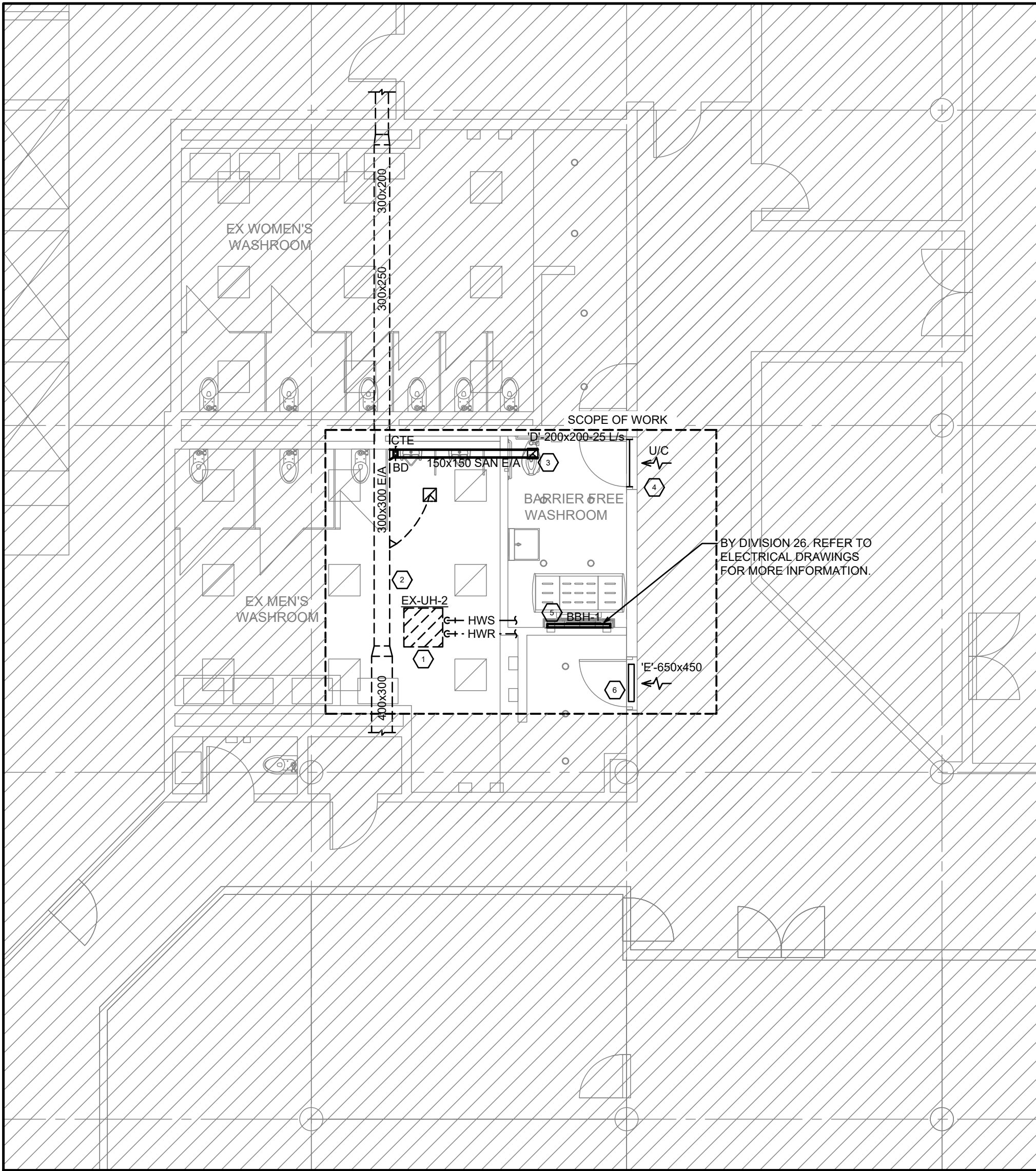
Drawing Title:

DRAWING LIST,
LEGEND,
& GENERAL NOTES

Issue Date:	2023.06.23
Drawn By: MF/VS	Checked By: AB
Project No.: 21424	Drawing Scale: 1:75

Drawing No.:

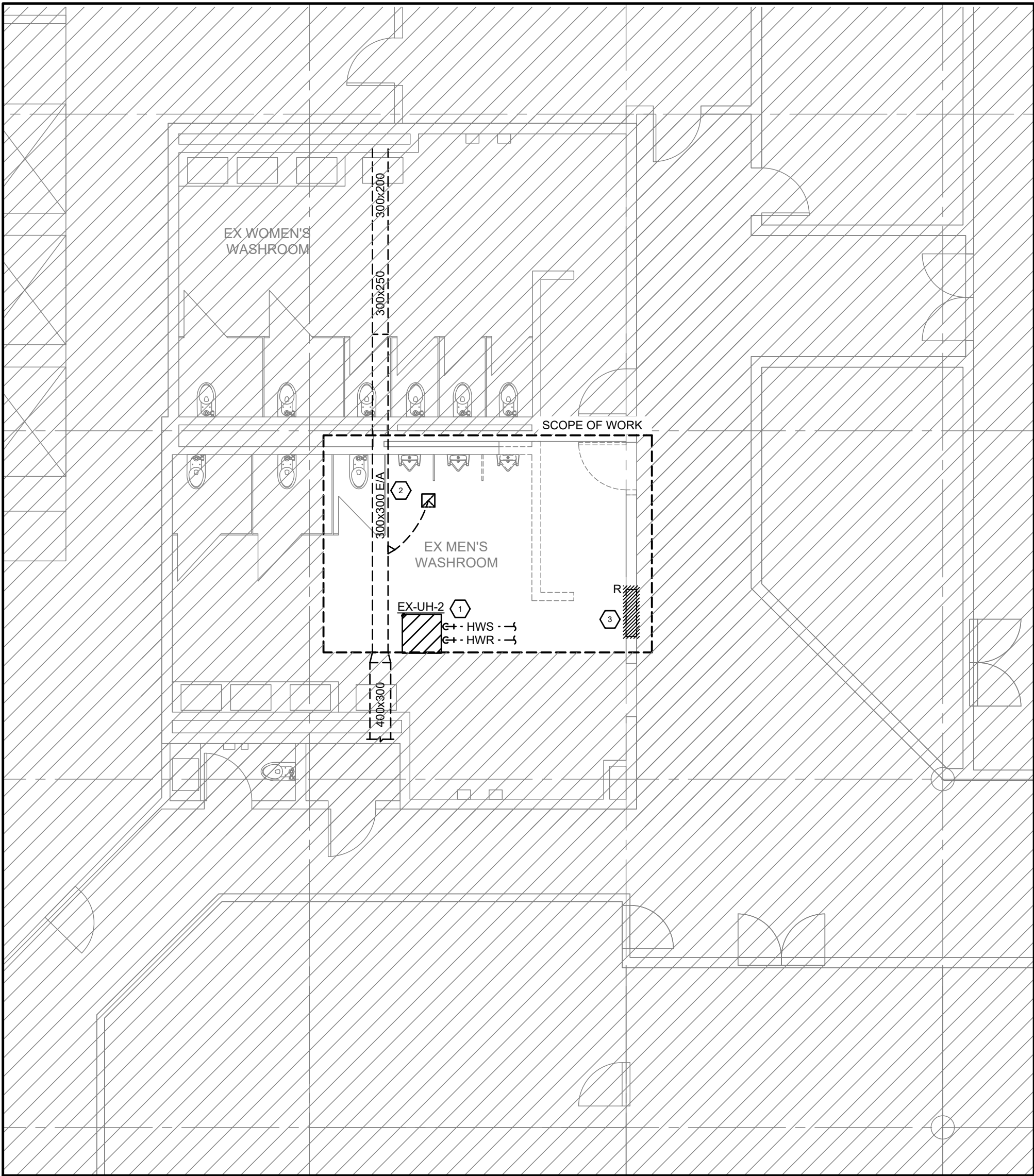
M0.01



1 LEVEL 1 WASHROOM HVAC PLAN
1:75

HVAC CONSTRUCTION NOTES:

- EXISTING HOT WATER UNIT HEATER AND ASSOCIATED HOT WATER PIPING TO REMAIN. TYPICAL FOR 2.
- EXISTING EXHAUST DUCT MAIN TO REMAIN.
- PROVIDE NEW EXHAUST AIR GRILLE AS INDICATED. CONNECT NEW EXHAUST DUCTWORK TO EXISTING MAIN DUCT WITHIN THE WASHROOM C/W BALANCING DAMPER. BALANCE EXHAUST AIR FLOW TO VALUE INDICATED.
- 3/4" DOOR UNDERCUT. BY OTHERS.
- PROVIDE ELECTRIC BASEBOARD HEATER AS INDICATED. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- PROVIDE DOOR GRILLE AS INDICATED TO NEW DOOR SERVING EXISTING WASHROOM.



2 LEVEL 1 WASHROOM HVAC DEMOLITION PLAN
1:75

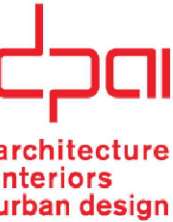
HVAC DEMOLITION NOTES:

- EXISTING HOT WATER UNIT HEATER & HOT WATER PIPING TO REMAIN.
- EXISTING EXHAUST DUCT MAIN TO REMAIN.
- EXISTING TRANSFER AIR GRILLE TO BE DEMOLISHED. INFILL EXISTING WALL OPENING AND MAKE GOOD.



VPCH OFFICE EXPANSION

155 QUEEN ST NORTH
HAMILTON, ONTARIO



25 Main Street West
Hamilton, Ontario
L8P 1H1 Canada
T: 905-522-0220



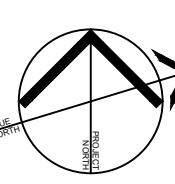
207 Queen's Quay West, Suite 615, Toronto, ON, M5J 1A7
E-Mail: mcw_tor@mcw.com www.mcw.com
Tel: 416-598-2920 Fax: 416-598-5394
Toronto Vancouver Winnipeg Moncton Ottawa Halifax
Dauphin Kelowna Trail Saint John

04	Issued for Tender	2023.09.08
03	Issued for Building Permit	2023.04.21
02	Issued for Review	2023.03.03
01	Issued for Review	2022.11.23
No.:	Issues / Revisions	YYYY.MM.DD

Drawing Title:

**LEVEL 1
WASHROOM
HVAC PLANS**

Issue Date:	2023.06.23
Drawn By: MF/VS	Checked By: AB
Project No.: 21424	Drawing Scale: 1:75



Drawing No.:

M1.01



VPCH OFFICE EXPANSION

155 QUEEN ST NORTH
HAMILTON, ONTARIO



25 Main Street West
Hamilton, Ontario
L8P 1H1 Canada
T: 905-522-0220

Seals:



MCW Consultants Ltd.
207 Queen's Quay West, Suite 615, Toronto, ON, M5J 1A7
E-Mail: mcw_tor@mcw.com www.mcw.com
Tel: 416-598-2920 Fax: 416-598-5394
Toronto Vancouver Winnipeg Moncton Ottawa Halifax
Dauphin Kelowna Trail Saint John

04	Issued for Tender	2023.09.08
03	Issued for Building Permit	2023.04.21
02	Issued for Review	2023.03.03
01	Issued for Review	2022.11.23

No.: Issues / Revisions YYYY.MM.DD

Drawing Title:

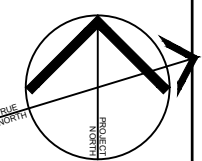
LEVEL 1
HVAC PLAN

Issue Date: 2023.06.23

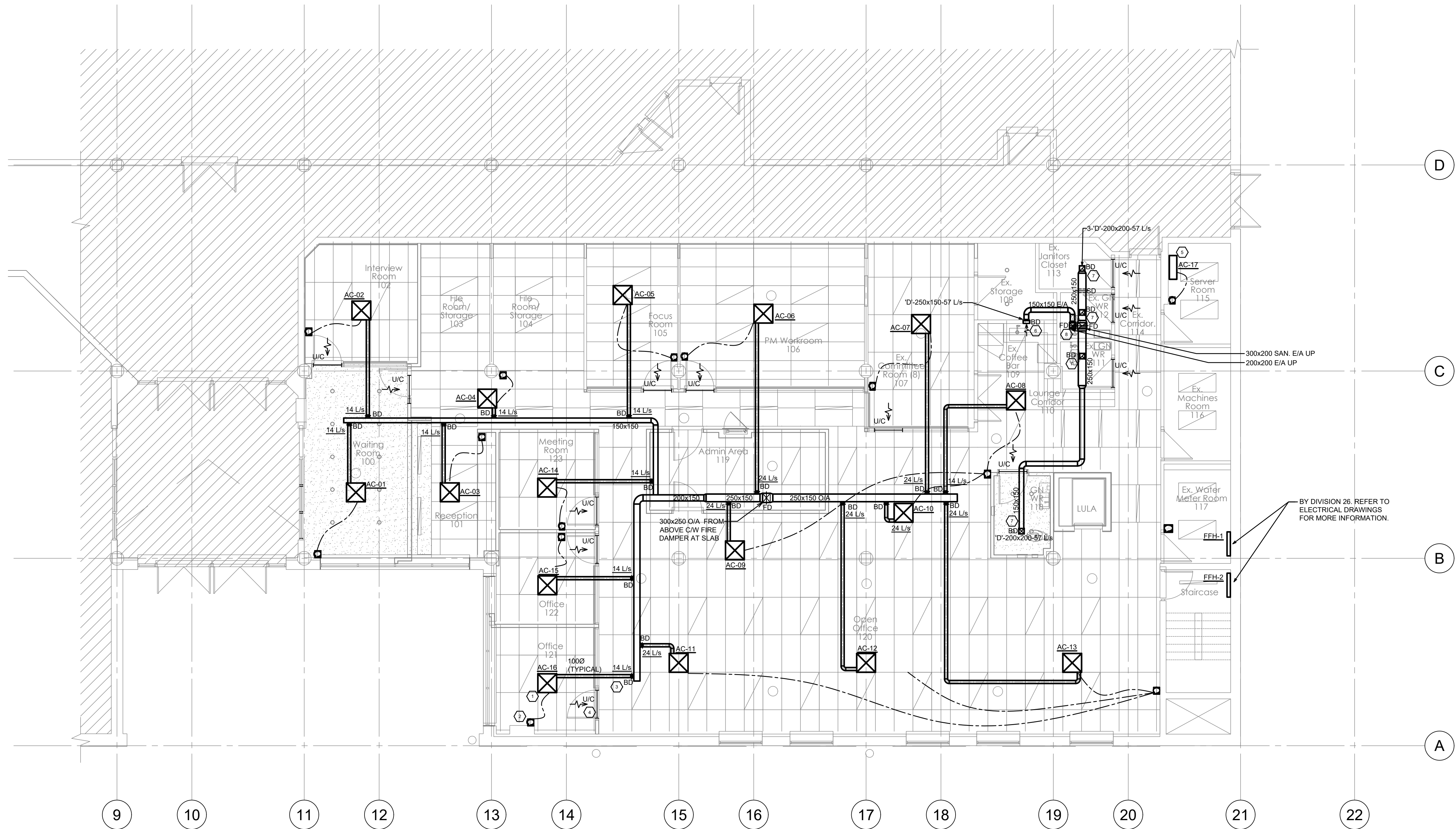
Drawn By: MF/VS Checked By: AB

Project No.: 21424 Drawing Scale: 1:75

Drawing No.:



M1.02



HVAC CONSTRUCTION NOTES:

- PROVIDE CEILING RECESSED 4-WAY CASSETTE AC UNIT AS INDICATED ON PLANS. REFER TO MECHANICAL SCHEDULES AND MANUFACTURER INSTALLATION INSTRUCTIONS FOR MORE INFORMATION. TYPICAL.
- PROVIDE THERMOSTAT AS INDICATED ON PLANS TO INTEGRATE WITH NEW AC UNITS. REFER TO MANUFACTURER INSTALLATION INSTRUCTIONS FOR MORE INFORMATION. TYPICAL.
- PROVIDE NEW 100Ø ROUND DUCT CONNECTION C/W BALANCING DAMPER TO EACH AC UNIT FROM NEW FRESH AIR DUCTWORK SERVING SPACE. REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS FOR MORE INFORMATION ON CONNECTING FRESH AIR DUCT TO AC UNIT. BALANCE FRESH AIR DUCT TO AIR FLOW VALUE INDICATED. TYPICAL.
- 3/4" UNDERCUT, BY OTHERS. TYPICAL.
- PROVIDE WALL MOUNTED AC UNIT AS INDICATED. REFER TO MECHANICAL SCHEDULES FOR MORE INFORMATION. TYPICAL OF 2.
- PROVIDE NEW EXHAUST GRILLE WITHIN EXISTING SERVERY AND GENERAL EXHAUST DUCTWORK C/W BALANCING DAMPER. BALANCE AIR FLOW TO VALUE INDICATED.
- PROVIDE NEW EXHAUST GRILLE C/W DUCTWORK AND BALANCING DAMPER TO SERVE WASHROOMS/JAN. CLOSET. BALANCE AIR FLOW TO VALUE INDICATED. AIR TERMINALS SERVING WASHROOM TO BE C/W BALANCING DAMPER AT GRILLE FACE.
- GENERAL EXHAUST / SANITARY EXHAUST DUCTWORK UP TO ABOVE C/W FIRE DAMPER AT FLOOR SLAB.
- PROVIDE REFRIGERANT PIPING TO SERVE ALL AC UNITS. REFER TO VRF PIPING SCHEMATIC ON DWG. M6.02 FOR MORE INFORMATION. EXACT LOCATION OF REFRIGERANT RISERS TO BE SITE VERIFIED.



VPCH OFFICE EXPANSION

155 QUEEN ST NORTH
HAMILTON, ONTARIO



25 Main Street West
Hamilton, Ontario
L8P 1H1 Canada
T: 905-522-0220

Seals:



MCW Consultants Ltd.
207 Queen's Quay West, Suite 615, Toronto, ON, M5J 1A7
E-Mail: mcw_tor@mcw.com www.mcw.com
Tel: 416-598-2920 Fax: 416-598-5394
Toronto Vancouver Winnipeg Moncton Ottawa Halifax
Dauphin Kelowna Trail Saint John

04	Issued for Tender	2023.09.08
03	Issued for Building Permit	2023.04.21
02	Issued for Review	2023.03.03
01	Issued for Review	2022.11.23

No.: Issues / Revisions YYYY.MM.DD

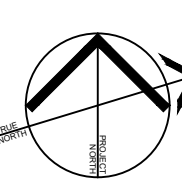
Drawing Title:

LEVEL 2
HVAC PLAN

Issue Date: 2023.06.23

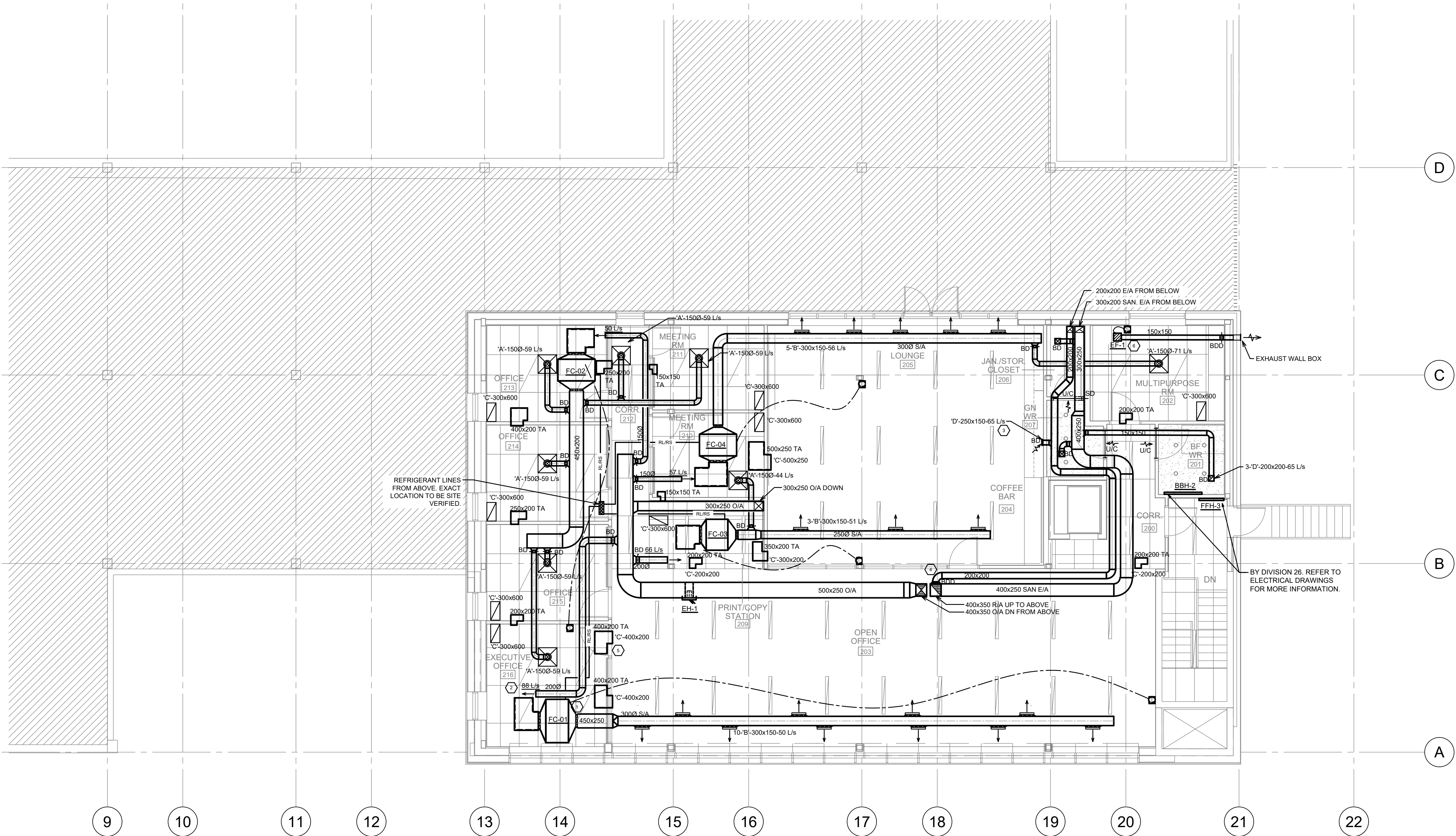
Drawn By: MF/VS Checked By: AB

Project No.: 21424 Drawing Scale: 1:75



Drawing No.:

M1.03



HVAC CONSTRUCTION NOTES:

- 1 PROVIDE HORIZONTAL CONCEALED FAN COIL UNIT AS INDICATED. PROVIDE 25mm ACOUSTIC INSULATION ON FANCOIL RETURN AIR DUCT. REFER TO MECHANICAL SCHEDULES, SPECIFICATIONS AND MANUFACTURER INSTALLATION INSTRUCTIONS FOR MORE INFORMATION. REFER TO VRF SCHEMATIC FOR REFRIGERANT PIPING LAYOUT. TYPICAL.
- 2 PROVIDE FRESH AIR DUCTWORK BRANCH TO SERVE FAN COIL UNIT C/W BALANCING DAMPER. BALANCE FRESH AIR FLOW TO VALUE INDICATED. FRESH AIR DUCT BRANCH TO BE OPEN ENDED C/W MESH. TYPICAL.
- 3 GENERAL EXHAUST DUCT FROM BELOW. PROVIDE E/A GRILLE AT HIGH LEVEL TO SERVE SECOND FLOOR SERVARY.
- 4 FRESH AIR DUCTWORK DOWN FROM AND RETURN AIR DUCTWORK UP TO ROOFTOP ERV. PROVIDE BACKDRAFT DAMPER AS INDICATED ON GENERAL EXHAUST DUCTWORK BEFORE COMBINING WITH SANITARY EXHAUST DUCTWORK AND CONNECTING TO ERV RETURN AIR DUCT.
- 5 PROVIDE ACOUSTICALLY LINED TRANSFER AIR DUCT ABOVE CEILING AS INDICATED. TYPICAL.
- 6 PROVIDE CABINET EXHAUST FAN EF-1 OUTSIDE SHOWER CUBICLE AS INDICATED. CABINET FAN INTERLOCKED WITH SWITCH. PROVIDE EXHAUST DUCTWORK AS INDICATED TO OUTSIDE C/W WALL BOX AND BACKDRAFT DAMPER.



VPCH OFFICE EXPANSION

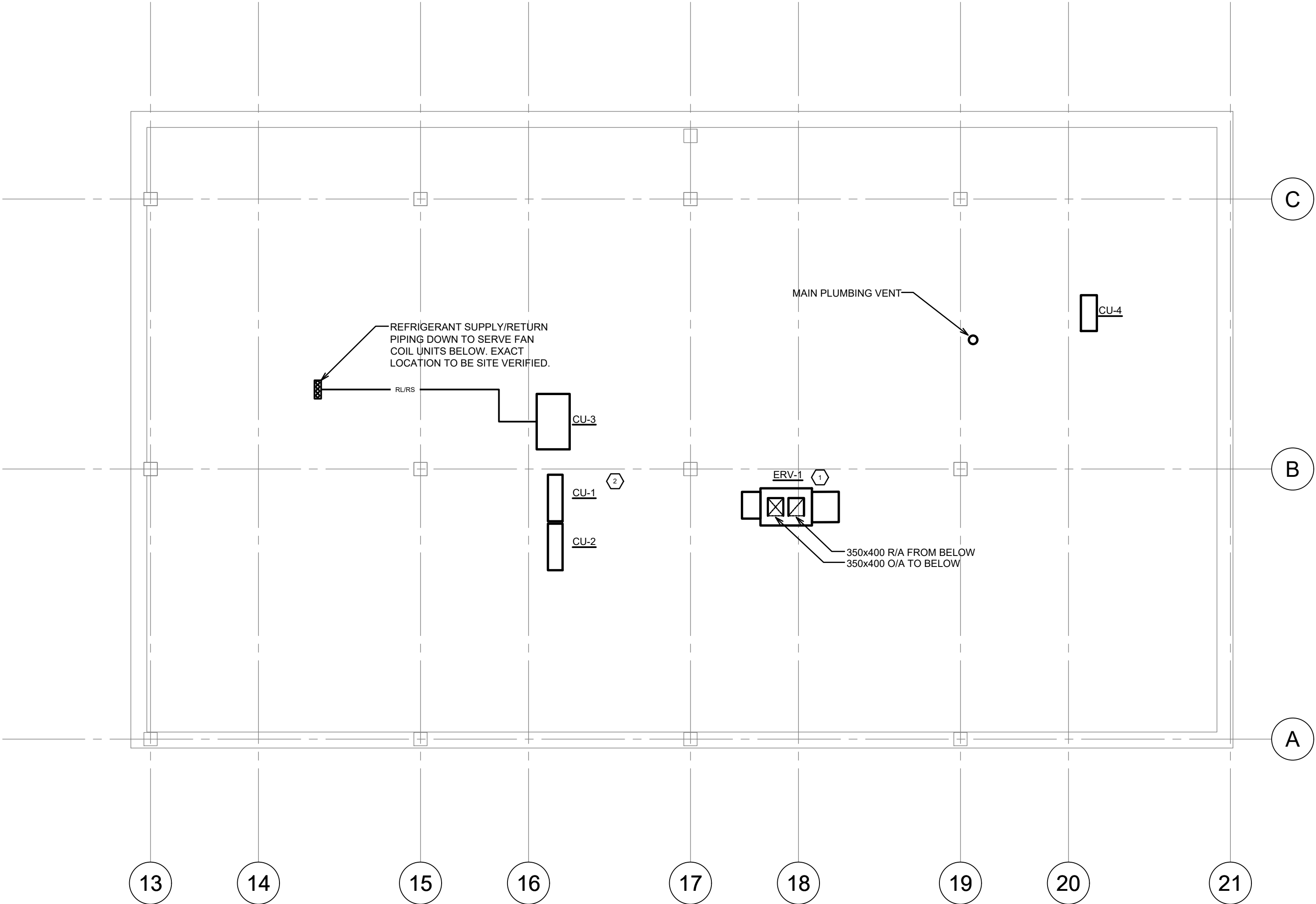
155 QUEEN ST NORTH
HAMILTON, ONTARIO



25 Main Street West
Hamilton, Ontario
L8P 1H1 Canada
T: 905-522-0220



MCW Consultants Ltd.
207 Queen's Quay West, Suite 615, Toronto, ON, M5J 1A7
E-Mail: mcw_tor@mcw.com www.mcw.com
Tel: 416-598-2920 Fax: 416-598-5394
Toronto Vancouver Winnipeg Moncton Ottawa Halifax
Dauphin Kelowna Trail Saint John



HVAC CONSTRUCTION NOTES:

- ① PROVIDE ROOFTOP ERV UNIT ERV-1 AS INDICATED C/W ROOF CURB. REFER TO MECHANICAL SCHEDULES, SPECIFICATIONS AND MANUFACTURER INSTALLATION INSTRUCTIONS FOR MORE INFORMATION. CONTRACTOR TO SEAL DUCT ROOF PENETRATIONS.
- ② PROVIDE ROOFTOP AIR COOLED CONDENSING UNITS CU-1/CU-2/CU-3/CU-4/CU-5 AS INDICATED C/W ROOF SUPPORTS. REFER TO MECHANICAL SCHEDULES, SPECIFICATIONS AND MANUFACTURER INSTALLATION INSTRUCTIONS FOR MORE INFORMATION. CONTRACTOR TO SEAL ALL PIPE PENETRATIONS THROUGH ROOF. EXACT LOCATIONS TO BE SITE VERIFIED.

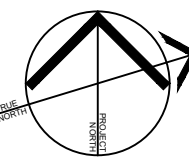
04	Issued for Tender	2023.09.08
03	Issued for Building Permit	2023.04.21
02	Issued for Review	2023.03.03
01	Issued for Review	2022.11.23
No.:	Issues / Revisions	YYYY.MM.DD

Drawing Title:

ROOF
HVAC PLAN

Issue Date:	2023.06.23
Drawn By: MF/VS	Checked By: AB
Project No.: 21424	Drawing Scale: 1:75

Drawing No.:



M1.04



VPCH OFFICE EXPANSION

155 QUEEN ST NORTH
HAMILTON, ONTARIO



25 Main Street West
Hamilton, Ontario
L8P 1H1 Canada
T: 905-522-0220



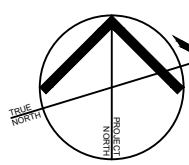
MCW Consultants Ltd.
207 Queen's Quay West, Suite 615, Toronto, ON, M5J 1A7
E-Mail: mcw_tor@mcw.com www.mcw.com
Tel: 416-598-2920 Fax: 416-598-5394
Toronto Vancouver Winnipeg Moncton Ottawa Halifax
Dauphin Kelowna Trail Saint John

04	Issued for Tender	2023.09.08
03	Issued for Building Permit	2023.04.21
02	Issued for Review	2023.03.03
01	Issued for Review	2022.11.23
No.:	Issues / Revisions	YYYY.MM.DD

Drawing Title:

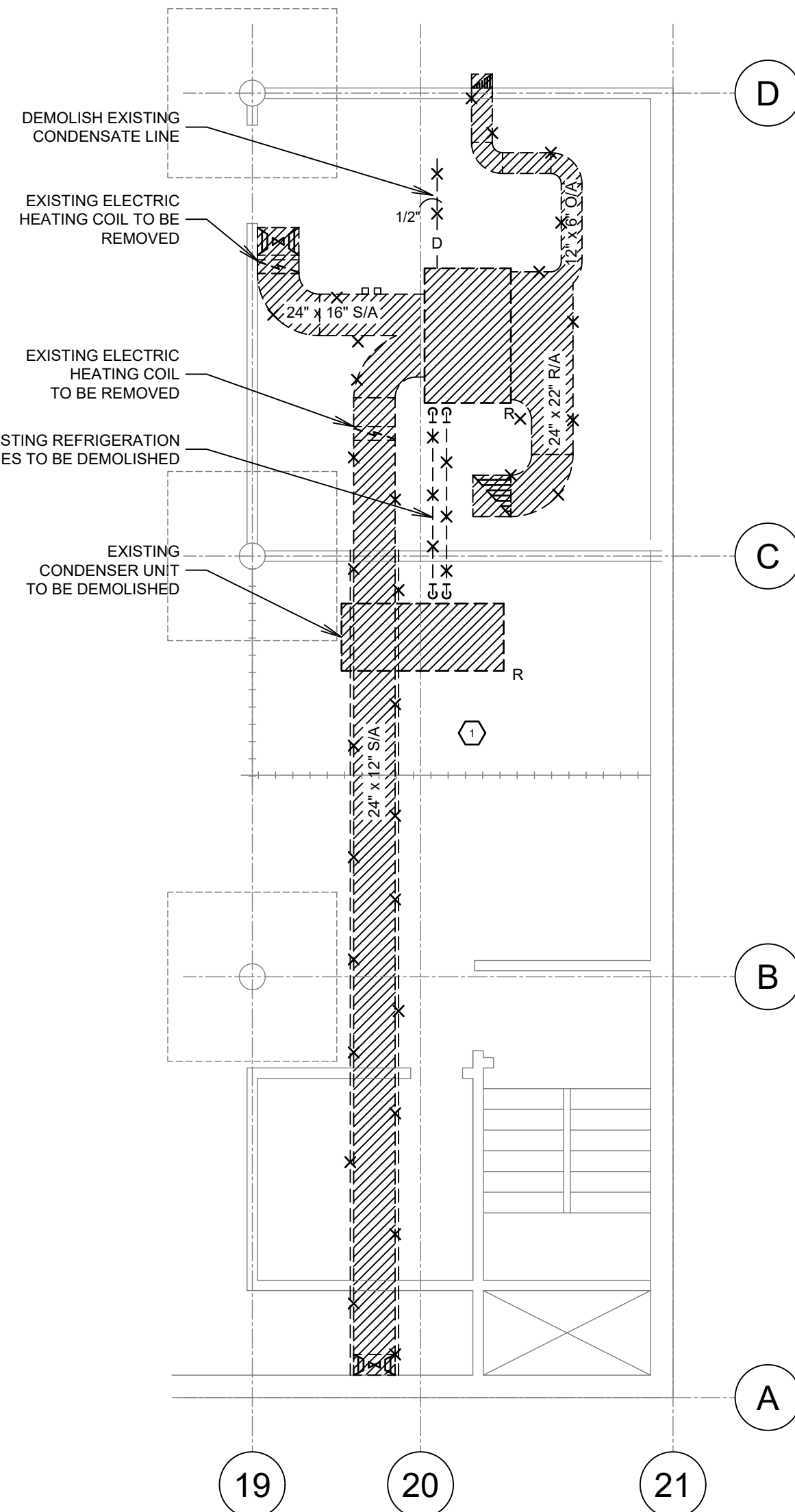
LEVEL 1
HVAC DEMO PLAN

Issue Date: 2023.06.23
Drawn By: MF/VS Checked By: AB
Project No.: 21424 Drawing Scale: 1:75



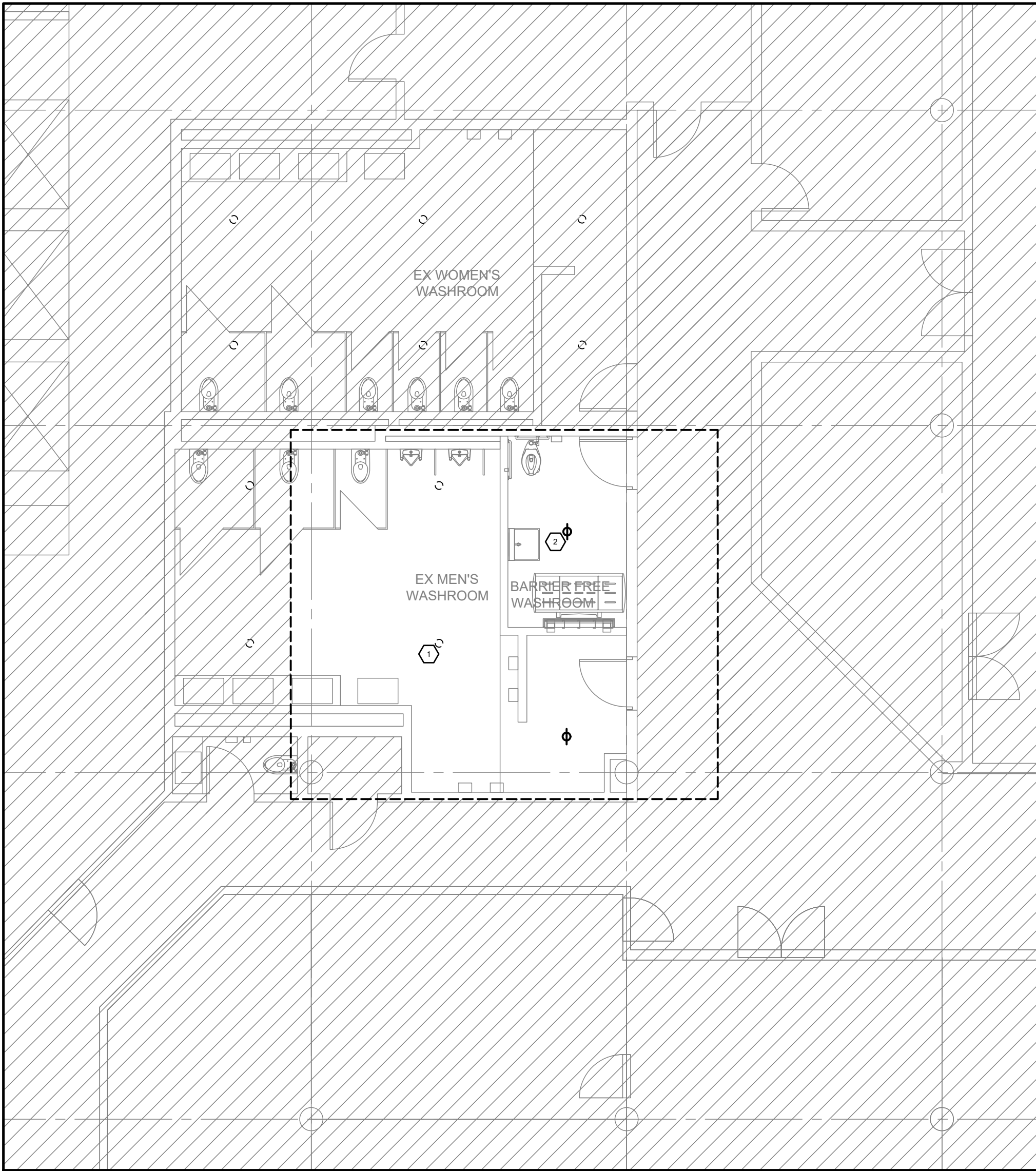
Drawing No.:

M1.05



HVAC DEMOLITION NOTES:

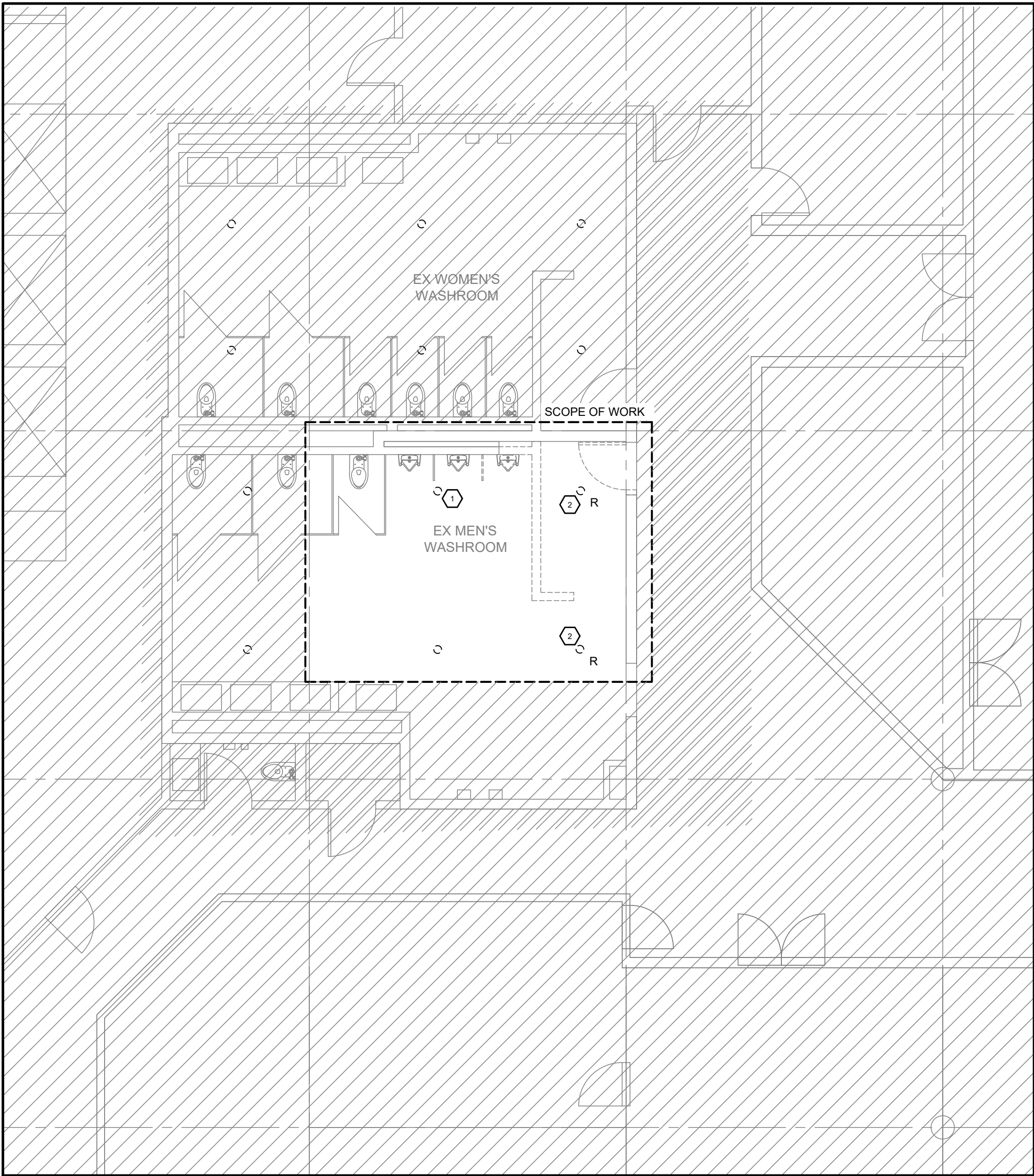
- DEMOLISH AND REMOVE ALL EXISTING MECHANICAL EQUIPMENT, DUCTWORK, AIR TERMINALS, WIRING, CONTROLS, ETC. SERVING EXISTING OFFICE UNLESS OTHERWISE NOTED.
- DEMOLISH EXISTING EXTERIOR LOUVER AND MAKE GOOD EXTERIOR WALL.



1 LEVEL 1 WASHROOM FIRE PROTECTION PLAN
1:75

FIRE PROTECTION CONSTRUCTION NOTES:

- 1 EXISTING SPRINKLER TO REMAIN. TYPICAL.
- 2 PROVIDE NEW CONCEALED SPRINKLER IN DRYWALL CEILING AS INDICATED. TYPICAL FOR 2.



2 LEVEL 1 WASHROOM FIRE PROTECTION DEMOLITION PLAN
1:75

FIRE PROTECTION DEMOLITION NOTES:

- 1 EXISTING SPRINKLER HEAD TO REMAIN. TYPICAL.
- 2 EXISTING SPRINKLER HEAD TO BE DEMOLISHED. TYPICAL FOR 2.



VPCH OFFICE EXPANSION

155 QUEEN ST NORTH
HAMILTON, ONTARIO



25 Main Street West
Hamilton, Ontario
L8P 1H1 Canada
T: 905-522-0220



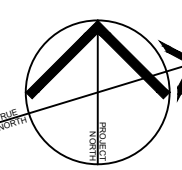
MCW Consultants Ltd.
207 Queen's Quay West, Suite 615, Toronto, ON, M5J 1A7
E-Mail: mcw_tor@mcw.com www.mcw.com
Tel: 416-598-2920 Fax: 416-598-5394
Toronto Vancouver Winnipeg Moncton Ottawa Halifax
Dauphin Kelowna Trail Saint John

04	Issued for Tender	2023.09.08
03	Issued for Building Permit	2023.04.21
02	Issued for Review	2023.03.03
01	Issued for Review	2022.11.23
No.:	Issues / Revisions	YYYY.MM.DD

Drawing Title:

**LEVEL 1
WASHROOM
FIRE PROTECTION PLANS**

Issue Date:	2023.06.23
Drawn By: MF/VS	Checked By: AB
Project No.: 21424	Drawing Scale: 1:75



Drawing No.:

M5.01



VPCH OFFICE EXPANSION

155 QUEEN ST NORTH
HAMILTON, ONTARIO



25 Main Street West
Hamilton, Ontario
L8P 1H1 Canada
T: 905-522-0220

Seals:

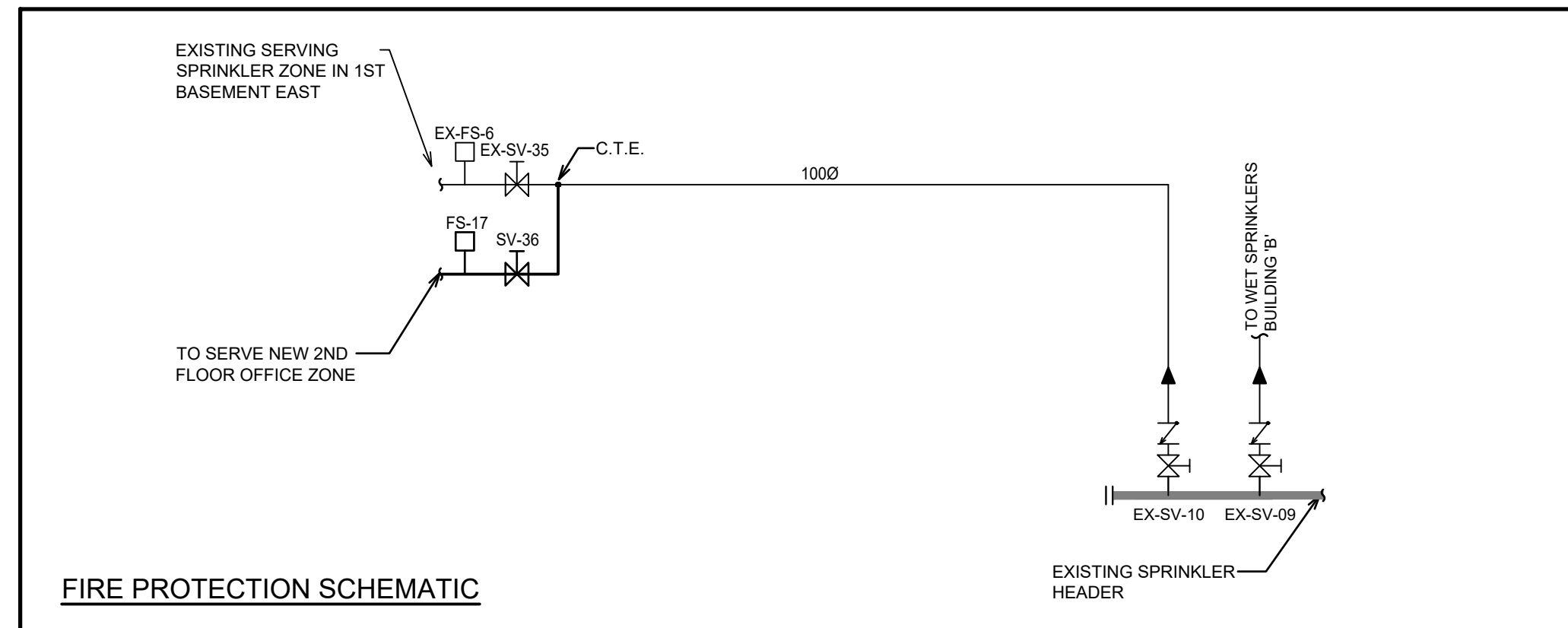


MCW Consultants Ltd.
207 Queen's Quay West, Suite 615, Toronto, ON, M5J 1A7
E-Mail: mcw_tor@mcw.com www.mcw.com
Tel: 416-598-2920 Fax: 416-598-5394
Toronto Vancouver Winnipeg Moncton Ottawa Halifax
Dauphin Kelowna Trail Saint John

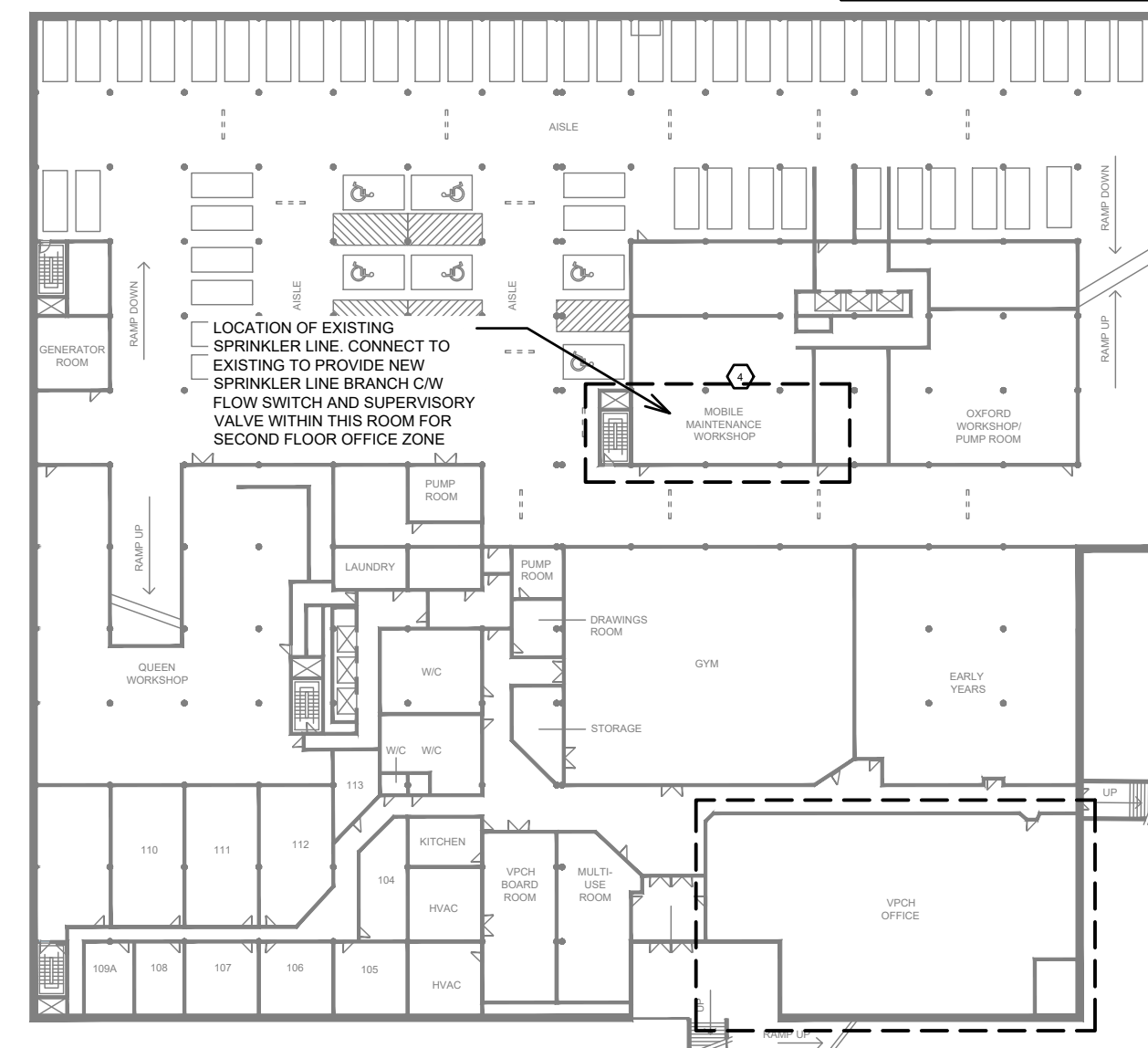


FIRE PROTECTION CONSTRUCTION NOTES:

- 1 PROVIDE FIRE HOSE CABINET AS INDICATED.
- 2 PROVIDE FIRE LINE TO SERVE FIRE HOSE CABINETS AS INDICATED. CONNECT TO EXISTING FIRE LINE IN CORRIDOR VIA PIPE FREEZE / HOT TAP.
- 3 PROVIDE CONCEALED SPRINKLER HEAD AS INDICATED, TYPICAL.
- 4 PROVIDE SPRINKLER BRANCH LINE TO SERVE SECOND FLOOR SPRINKLER ZONE. PROVIDE NEW FLOW SWITCH AND SUPERVISORY VALVE ON BRANCH LINE WHERE IT CONNECTS TO EXISTING SPRINKLER MAIN LINE. REFER TO SPRINKLER PIPING SCHEMATIC FOR MORE INFORMATION.
- 5 EXISTING SPRINKLER LINE. EXACT LOCATION TO BE SITE VERIFIED. EXISTING SPRINKLER PIPING TO BE MODIFIED AS REQUIRED TO SUIT NEW SPRINKLER LAYOUT AND MECHANICAL DESIGN.



LEVEL 1 KEYPLAN

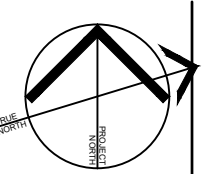


04	Issued for Tender	2023.09.08
03	Issued for Building Permit	2023.04.21
02	Issued for Review	2023.03.03
01	Issued for Review	2022.11.23
No.:	Issues / Revisions	YYYY.MM.DD

Drawing Title:

**LEVEL 1
FIRE PROTECTION PLAN**

Issue Date:	2023.06.23
Drawn By: MF/VS	Checked By: AB
Project No.: 21424	Drawing Scale: 1:75



M5.02



FIRE PROTECTION CONSTRUCTION NOTES:

- 1. PROVIDE FIRE HOSE CABINET AS INDICATED. CONNECT TO NEW FIRE LINE FROM BELOW. TYPICAL OF 2.
- 2. SPRINKLER LINE FROM BELOW TO SERVE LEVEL 2 OFFICE ZONE.
- 3. CONCEALED SPRINKLER HEAD IN T-BAR CEILING AREAS. TYPICAL.
- 4. UPRIGHT SPRINKLER HEAD IN OPEN CEILING AREAS. TYPICAL.



VPCH OFFICE EXPANSION

155 QUEEN ST NORTH
HAMILTON, ONTARIO



25 Main Street West
Hamilton, Ontario
L8P 1H1 Canada
T: 905-522-0220

Seals:



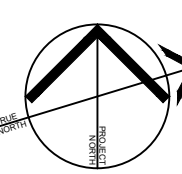
MCW Consultants Ltd.
207 Queen's Quay West, Suite 615, Toronto, ON, M5J 1A7
E-Mail: mcw_tor@mcw.com www.mcw.com
Tel: 416-598-2920 Fax: 416-598-5394
Toronto Vancouver Winnipeg Moncton Ottawa Halifax
Dauphin Kelowna Trail Saint John

04	Issued for Tender	2023.09.08
03	Issued for Building Permit	2023.04.21
02	Issued for Review	2023.03.03
01	Issued for Review	2022.11.23
No.:	Issues / Revisions	YYYY.MM.DD

Drawing Title:

**LEVEL 2
FIRE PROTECTION PLAN**

Issue Date:	2023.06.23
Drawn By: MF/VS	Checked By: AB
Project No.: 21424	Drawing Scale: 1:75



Drawing No.:

M5.03



VPCH OFFICE EXPANSION

155 QUEEN ST NORTH
HAMILTON, ONTARIO



25 Main Street West
Hamilton, Ontario
L8P 1H1 Canada
T: 905-522-0220

Seals:



MCW Consultants Ltd.
207 Queen's Quay West, Suite 615, Toronto, ON, M5J 1A7
E-Mail: mcw_tor@mcw.com www.mcw.com
Tel: 416-598-2920 Fax: 416-598-5394
Toronto Vancouver Winnipeg Moncton Ottawa Halifax
Dauphin Kelowna Trail Saint John

04	Issued for Tender	2023.09.08
03	Issued for Building Permit	2023.04.21
02	Issued for Review	2023.03.03
01	Issued for Review	2022.11.23
No.:	Issues / Revisions	YYYY.MM.DD

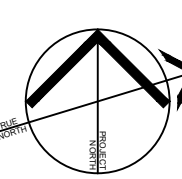
Drawing Title:

LEVEL 1
FIRE PROTECTION
DEMO PLAN

Issue Date: 2023.06.23

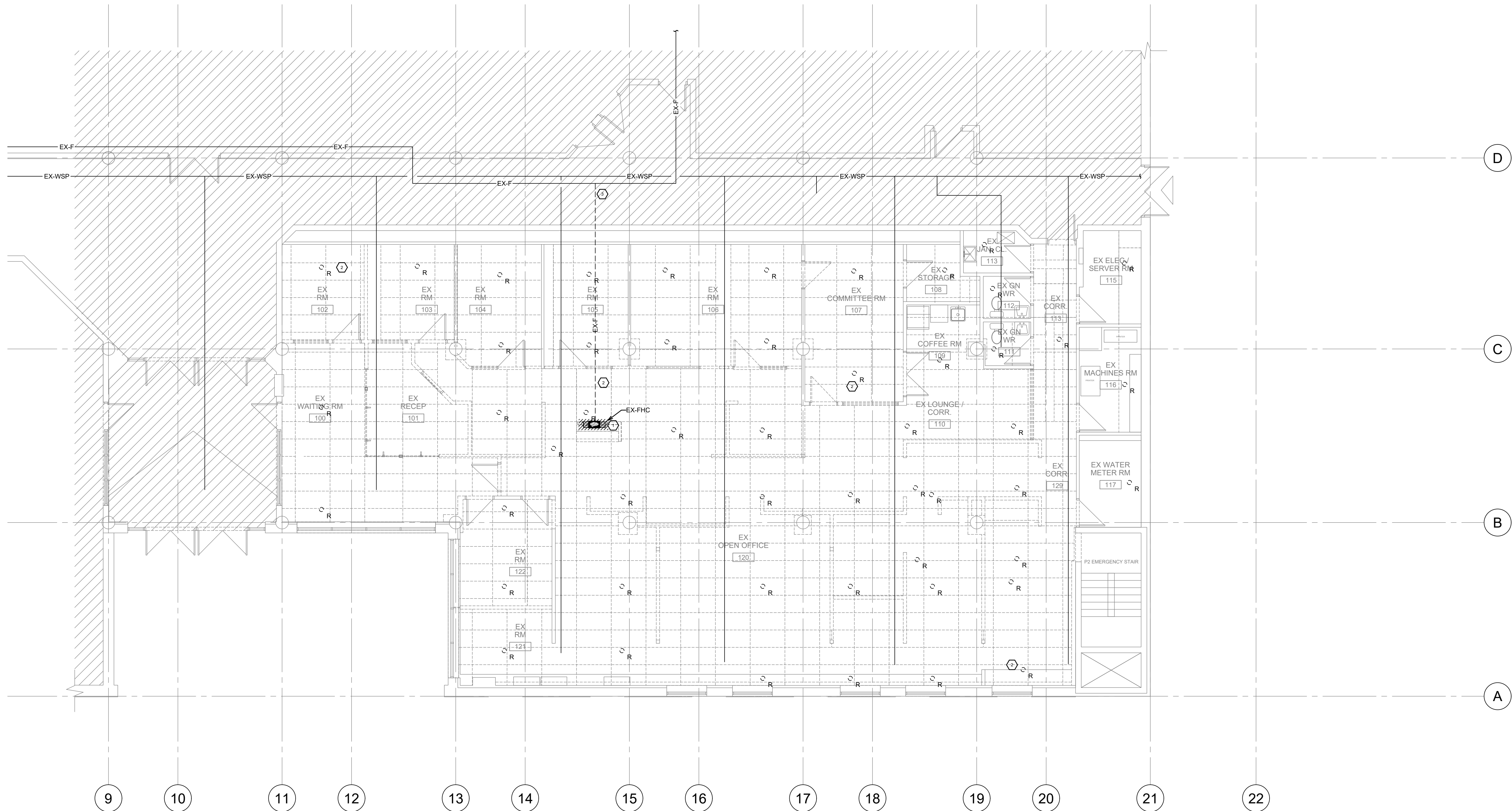
Drawn By: MF/VS Checked By: AB

Project No.: 21424 Drawing Scale: 1:75



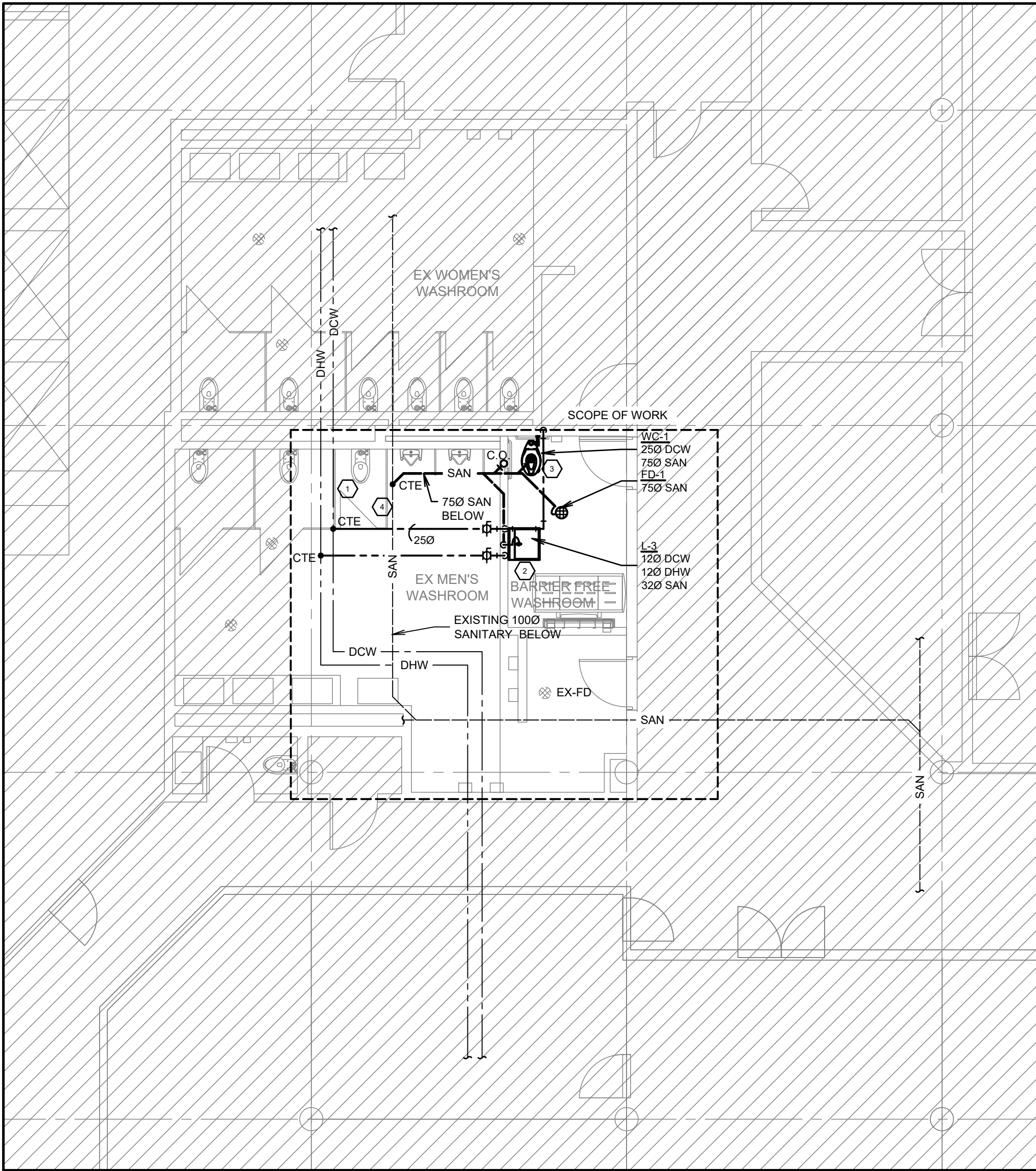
Drawing No.:

M5.04



FIRE PROTECTION DEMOLITION NOTES:

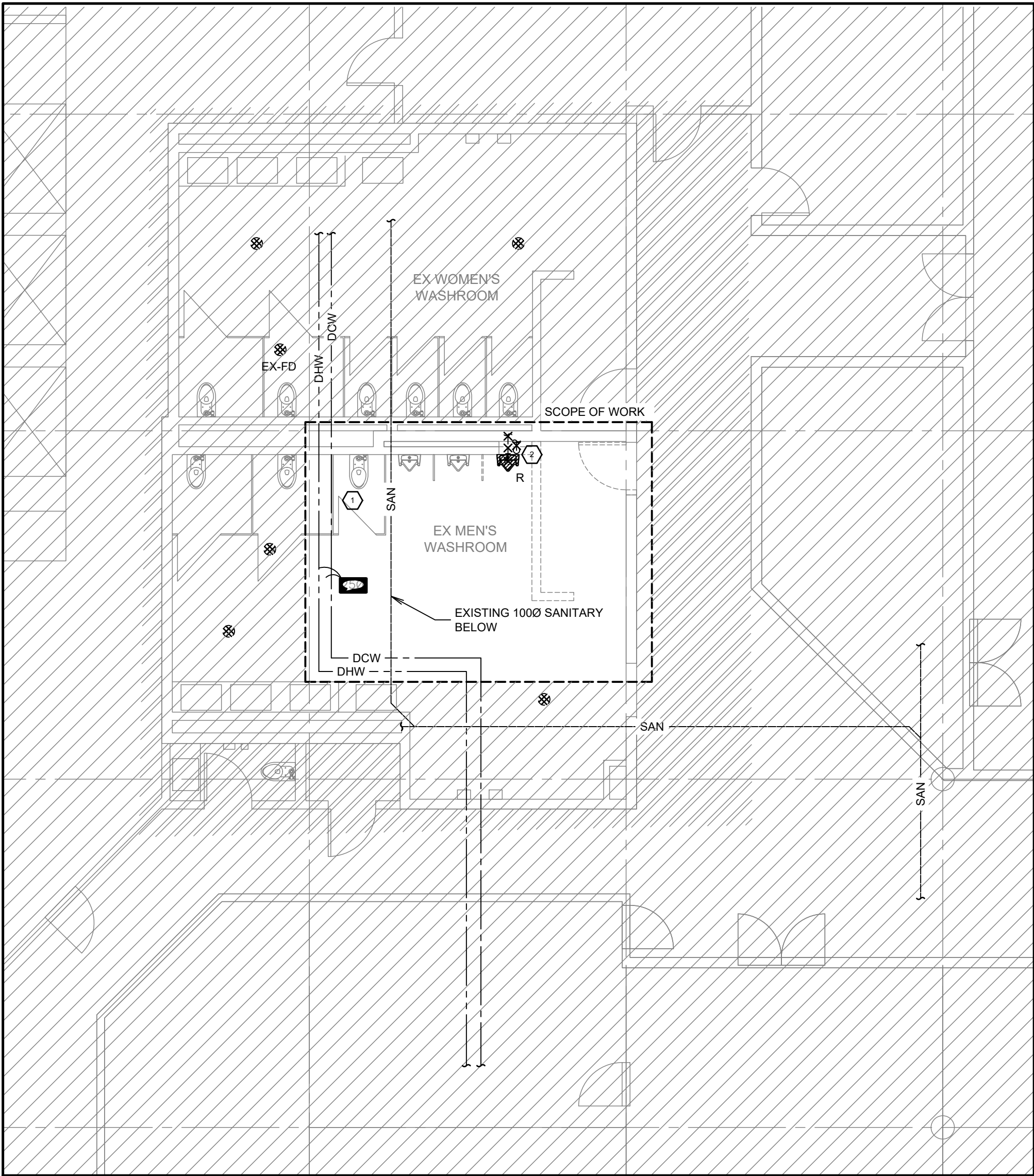
- ① EXISTING FIRE HOSE CABINET TO BE RELOCATED. IF NOT ABLE TO BE RELOCATED, DEMOLISH AND PROVIDE NEW. REFER TO NEW CONSTRUCTION PLAN FOR NEW LOCATION.
- ② EXISTING SPRINKLER HEAD TO BE DEMOLISHED. TYPICAL.
- ③ DEMOLISH EXISTING FIRE LINE AND CAP BACK TO MAIN LINE IN CORRIDOR AS INDICATED.



1 LEVEL 1 WASHROOM PLUMBING PLAN
1:75

PLUMBING CONSTRUCTION NOTES:

- EXISTING PLUMBING FIXTURE TO REMAIN. TYPICAL.
- PROVIDE NEW BARRIER FREE LAVATORY LAV-3 AS PER SPECIFICATIONS. PROVIDE NEW DOMESTIC HOT/COLD WATER PIPING TO SERVE LAVATORY. CONNECT TO EXISTING MAINS VIA HOT TAP/PIPE FREEZE. PROVIDE NEW SANITARY LINE TO CONNECT TO EXISTING SANITARY BELOW. PROVIDE VENTING AS PER OBC.
- PROVIDE NEW BARRIER FREE WATER CLOSET WC-2 AS PER SPECIFICATIONS. PROVIDE NEW DOMESTIC COLD WATER PIPING TO SERVE WATER CLOSET, CONNECT TO EXISTING MAINS VIA HOT TAP/PIPE FREEZE. PROVIDE NEW SANITARY LINE TO CONNECT TO EXISTING SANITARY. PROVIDE VENTING AS PER OBC.
- EXISTING SANITARY PIPING BELOW. EXACT LOCATION AND ROUTING TO BE SITE VERIFIED.
- CONTRACTOR TO EXCAVATE, BACKFILL AND REPAIR CONCRETE AS REQUIRED.



2 LEVEL 1 WASHROOM PLUMBING DEMOLITION PLAN
1:75

PLUMBING DEMOLITION NOTES:

- EXISTING PLUMBING FIXTURE TO REMAIN. TYPICAL.
- DEMOLISH AND REMOVE EXISTING URINAL. DEMOLISH AND CAP EXISTING DOMESTIC COLD WATER AND SANITARY PIPING BACK TO MAIN.



VPCH OFFICE EXPANSION

155 QUEEN ST NORTH
HAMILTON, ONTARIO



25 Main Street West
Hamilton, Ontario
L8P 1H1 Canada
T: 905-522-0220



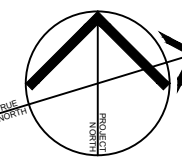
MCW Consultants Ltd.
207 Queen's Quay West, Suite 615, Toronto, ON, M5J 1A7
E-Mail: mcw_tor@mcw.com www.mcw.com
Tel: 416-598-2920 Fax: 416-598-5394
Toronto Vancouver Winnipeg Moncton Ottawa Halifax
Dauphin Kelowna Trail Saint John

04	Issued for Tender	2023.09.08
03	Issued for Building Permit	2023.04.21
02	Issued for Review	2023.03.03
01	Issued for Review	2022.11.23
No.:	Issues / Revisions	YYYY.MM.DD

Drawing Title:

**LEVEL 1
WASHROOM
PLUMBING PLANS**

Issue Date:	2023.06.23
Drawn By: MF/VS	Checked By: AB
Project No.: 21424	Drawing Scale: 1:75



P1.01



VPCH OFFICE EXPANSION

155 QUEEN ST NORTH
HAMILTON, ONTARIO

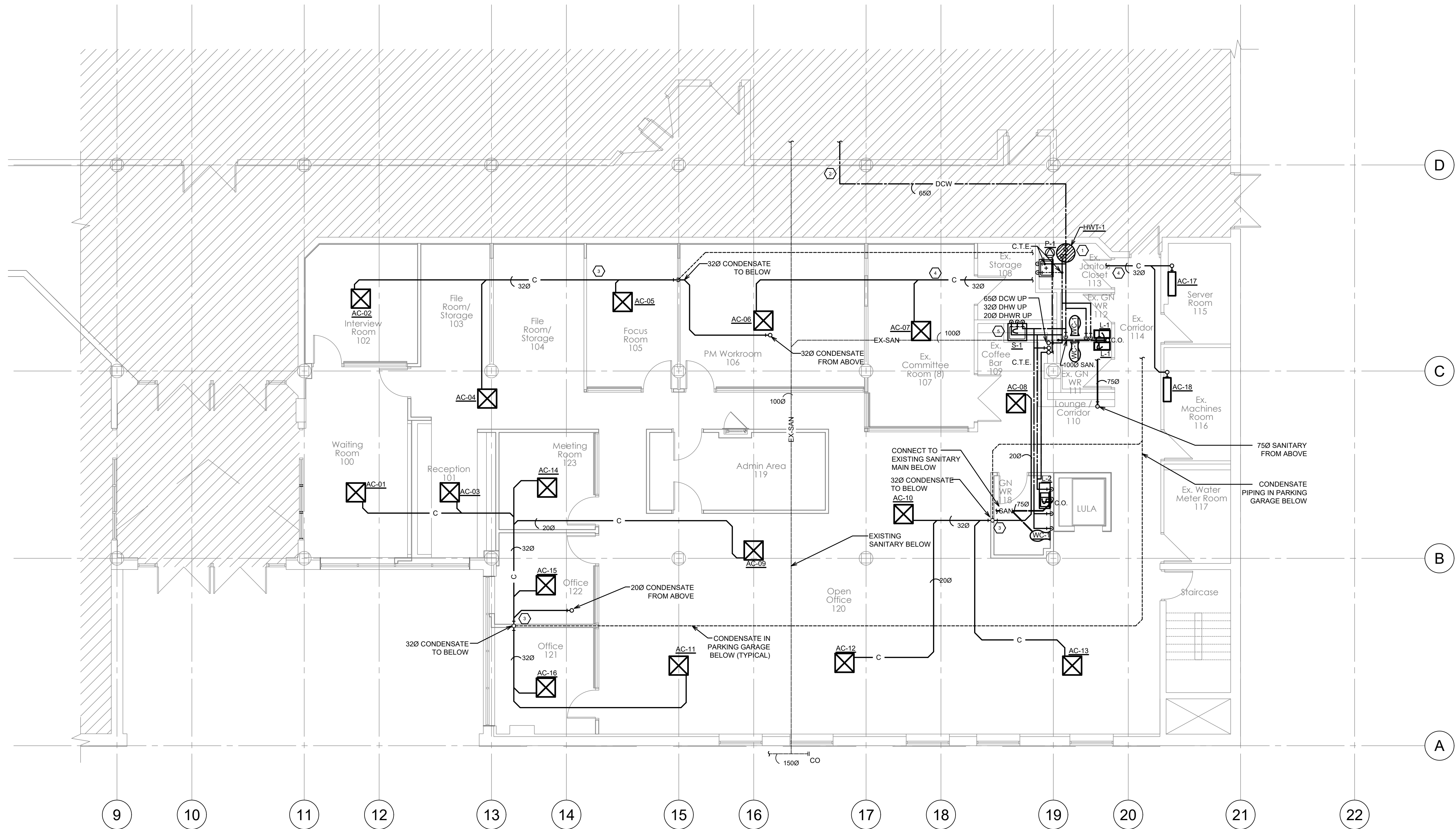


25 Main Street West
Hamilton, Ontario
L8P 1H1 Canada
T: 905-522-0220

Seals:

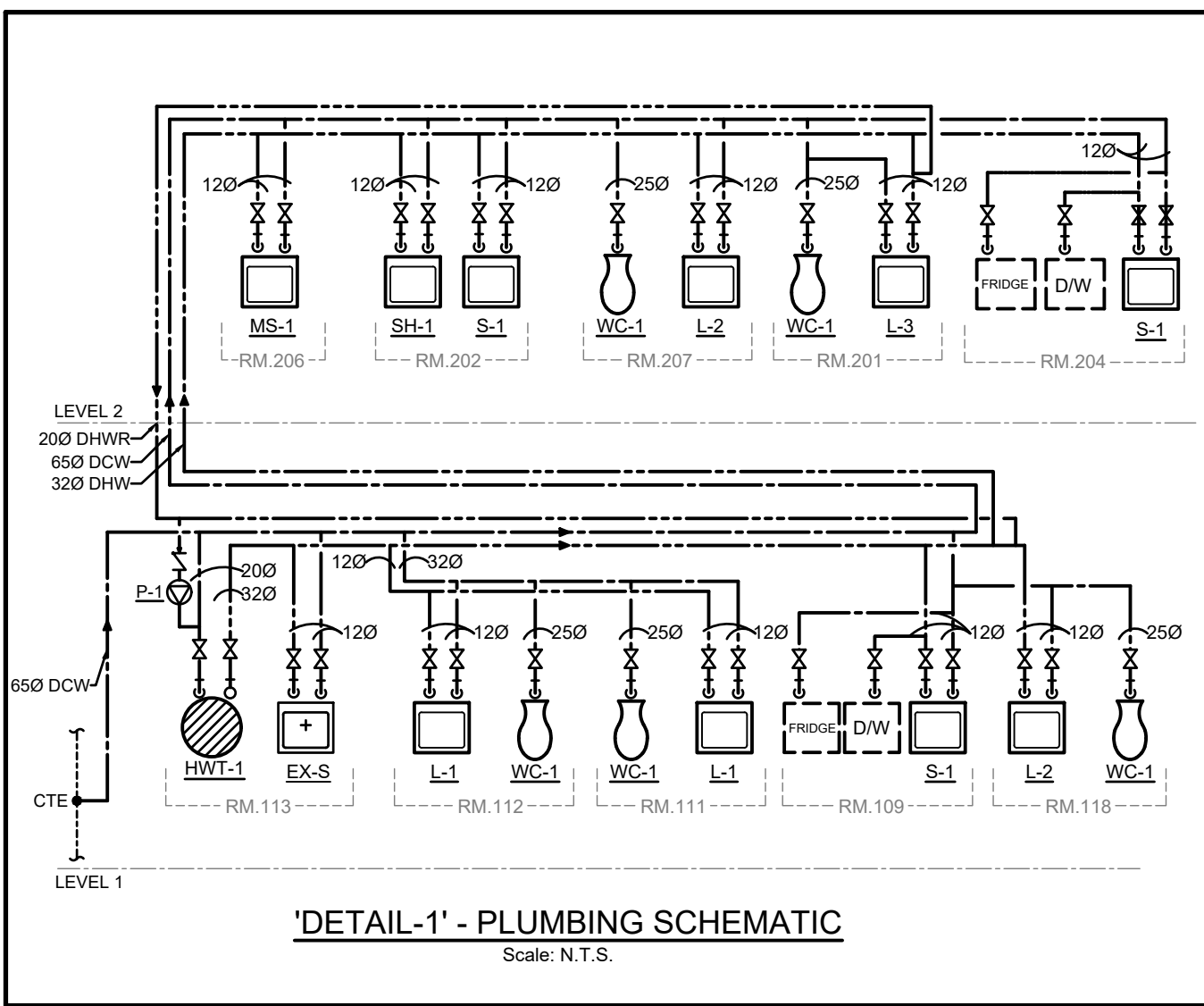


MCW Consultants Ltd.
207 Queen's Quay West, Suite 615, Toronto, ON, M5J 1A7
E-Mail: mcw_tor@mcw.com www.mcw.com
Tel: 416-598-2920 Fax: 416-598-5394
Toronto Vancouver Winnipeg Moncton Ottawa Halifax
Dauphin Kelowna Trail Saint John



PLUMBING CONSTRUCTION NOTES:

- 1 PROVIDE NEW HOT WATER TANK 'HWT-1' WITHIN EXISTING JANITORS CLOSET. HOT WATER TANK TO BE INSTALLED CW Drip Pan, Expansion Tank and Re-circulation Pump. REFER TO MECHANICAL SCHEDULES, SPECIFICATIONS AND MANUFACTURERS INSTALLATION INSTRUCTIONS FOR MORE INFORMATION.
- 2 PROVIDE NEW 650 DOMESTIC COLD WATER LINE TO SERVE OFFICE SPACE. CONNECT TO EXISTING DCW MAIN FROM EXISTING WASHROOMS OUTSIDE THE OFFICE SPACE. COLD FREEZE / HOT TAP PIPE FOR CONNECTION TO EXISTING PIPING. PROVIDE ISOLATION VALVE ON NEW DCW PIPING TO OFFICE.
- 3 CONDENSATE PIPING FROM AC UNITS SLOPED AT 2%. CONDENSATE PIPING TO GO DOWN TO PARKING AREA BELOW AS INDICATED AND RUN TO EXISTING MECHANICAL ROOM IN FLOOR BELOW. TERMINATE CONDENSATE INDIRECTLY AT FLOOR DRAIN IN EXISTING MECHANICAL ROOM BELOW.
- 4 CONDENSATE PIPING FROM AC UNITS SLOPED AT 2%. RUN CONDENSATE TO EXISTING JANITORS CLOSET AND TERMINATE INDIRECTLY AT JANITORS MOP SINK.
- 5 PROVIDE WATER CONNECTIONS FOR FRIDGE / DISHWASHER AS PER MANUFACTURER INSTALLATION INSTRUCTIONS. REFER TO PLUMBING SCHEMATIC FOR MORE INFORMATION.
- 6 CONTRACTOR TO PROVIDE VENTING AS PER OBC REQUIREMENTS.

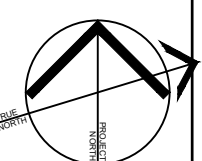


04	Issued for Tender	2023.09.08
03	Issued for Building Permit	2023.04.21
02	Issued for Review	2023.03.03
01	Issued for Review	2022.11.23
No.:	Issues / Revisions	YYYY.MM.DD

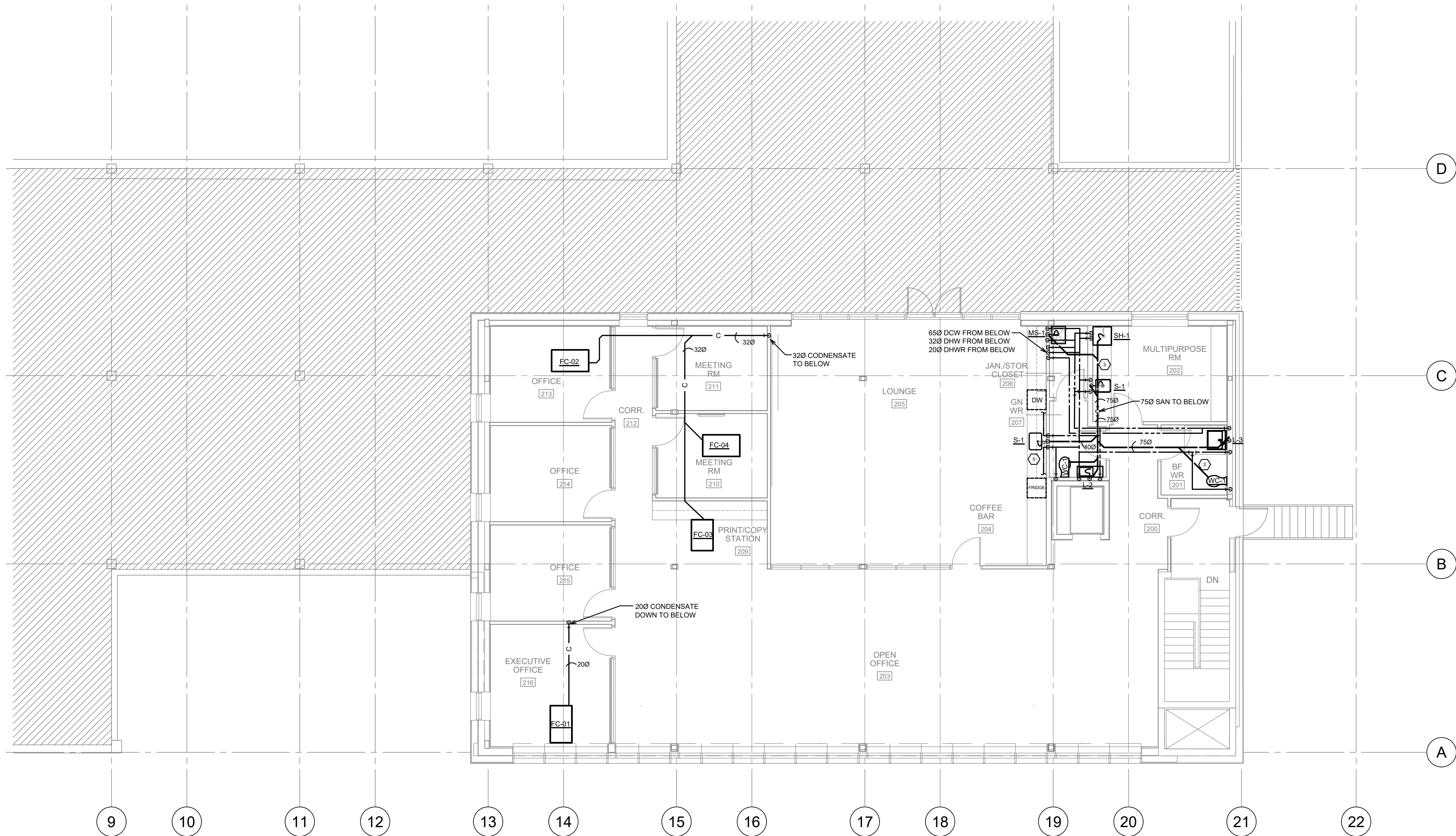
Drawing Title:

**LEVEL 1
PLUMBING PLAN**

Issue Date:	2023.06.23
Drawn By: MF/VS	Checked By: AB
Project No.: 21424	Drawing Scale: 1:75



P1.02



PLUMBING CONSTRUCTION NOTES:

- 1 REFER TO PLUMBING SCHEMATIC ON P1.02 FOR PIPE SIZES AND ROUTING INFORMATION.
- 2 PROVIDE VENTING FOR ALL FIXTURES AS PER OBC REQUIREMENTS.
- 3 RUN SANITARY DRAINAGE AS INDICATED WITHIN NEW SUB-FLOOR ON LEVEL 2. REFER TO STRUCTURAL PACKAGE FOR MORE INFORMATION.
- 4 CONDENSATE PIPING FROM AC UNITS ON LEVEL 2 AS INDICATED, SLOPED AT 2%.
- 5 PROVIDE WATER LINES TO SERVE DISHWASHER / FRIDGE. REFER TO MANUFACTURER INSTALLATION INSTRUCTIONS & PLUMBING SCHEMATIC ON P1.02.



VPCH OFFICE EXPANSION

155 QUEEN ST NORTH
HAMILTON, ONTARIO



25 Main Street West
Hamilton, Ontario
L8P 1H1 Canada
T: 905-522-0220



MCW Consultants Ltd.
207 Queen's Quay West, Suite 615, Toronto, ON, M5J 1A7
E-Mail: mcw_tor@mcw.com www.mcw.com
Tel: 416-598-2920 Fax: 416-598-5394
Toronto Vancouver Winnipeg Moncton Ottawa Halifax
Dauphin Kelowna Trail Saint John

04	Issued for Tender	2023.09.08
03	Issued for Building Permit	2023.04.21
02	Issued for Review	2023.03.03
01	Issued for Review	2022.11.23
No.:	Issues / Revisions	YYYY.MM.DD

Drawing Title:

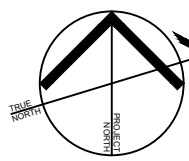
**LEVEL 2
PLUMBING PLAN**

Issue Date: 2023.06.23

Drawn By: MF/VS Checked By: AB

Project No.: 21424 Drawing Scale: 1:75

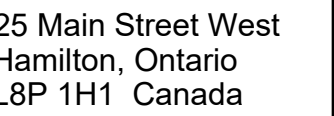
Drawing No.:



P1.03



155 QUEEN ST NORTH
HAMILTON, ONTARIO



: 905-522-0220

Seals:



207 Queen's Quay West, Suite 615, Toronto, ON, M5J 1A7
E-Mail: mcw_tor@mcw.com www.mcw.com
Tel: 416-598-2920 Fax: 416-598-5394
Toronto Vancouver Winnipeg Moncton Ottawa Halifax
Dauphin Kelowna Trail Saint John

Drawing Title:

LEVEL 1 PLUMBING DEMO PLAN

Issue Date: 2023 06 23

Drawn By.: MF/VS Checked By: AB

Project No.: 21424 Drawing Scale: 1 : 75

Drawing No.:



ENERGY RECOVERY VENTILATOR SCHEDULE

TAG	DESCRIPTION	LOCATION	SERVING	SUPPLY AIR		EXH. AIR		FAN SPEED (RPM)	E.A.T. (°C)		HEAT RECOVERY EFFECTIVENESS	MANUFACTURER	MODEL	MOTOR SIZE		POWER SUPPLY					REMARKS:	NOTES:
				AIRFLOW (L/s)	E.S.P. (Pa)	AIRFLOW (L/s)	E.S.P. (Pa)		WINTER	SUMMER				kW	HP	FLA	MCA	MOP	VOLTS	PHASE		
									DB	DB/WB												
ERV-1	ENERGY RECOVERY UNIT	ROOF	OFFICE	566	70	566	70	1475	-19	31 / 23	68.8	RENEUAIRE	HE1.5JRTV	-	2	6.5	14.6	20	120	1	C/W MERV 13 FILTER UNLESS OTHERWISE INDICATED. PROVIDE TIME OF DAY CONTROLLER, CO2 SENSOR, PROVIDE ROOF CURB, MOTORIZED EA & OA DAMPERS, ELECTRIC HEATER, ECM FAN MOTORS.	1. REFER TO SECTIONS 23 72 00 AND 23 74 20.

ELECTRIC DUCT HEATER SCHEDULE

TAG	MANUFACTURER	MODEL	DIMENSIONS (WxH) [mm]	PRESSURE DROP (Pa)	POWER (kW)	VOLT / PH / HZ	STAGES	MOUNTING	CONTROLS	REMARKS:	NOTES:
EH-1	RENEUAIRE	EK SERIES	500 x 250	20	5	208 / 1 / 60	1	SLIP-IN DUCT MOUNTED	STAGED ON/OFF		1. REFER TO SPECIFICATIONS 23 74 20

DOMESTIC HOT WATER HEATER SCHEDULE

TAG	LOCATION	POWER (KW)	OPERATING PRESSURE MAX. (KPA)	TANK DIMENSIONS (HEIGHT / DIA.) [mm]	TANK CAPACITY (LITRES)	MANUFACTURER	MODEL	ELECTRICAL			NOTES:
								VOLTS	PHASE	HZ	
HWT-1	EX. JAN CLOSET (113)	4.5	1034	1240 / 560	182	GSW	G650SDE-45X	208	1	60	1. C/W DRIP PAN 2. C/W AMTROL ST-5C-DD 2 GAL. EXPANSION TANK 3. REFER TO SPECIFICATIONS 22 30 05

PUMP SCHEDULE

TAG	LOCATION	WATER FLOW (L/S)	HEAD (M)	RPM	MANUFACTURER	MODEL	MCA	MOTOR SIZE (KW)	ELECTRICAL			NOTES:
									VOLTS	PHASE	HZ	
P-1	EX. JANITORS CLOSET (113)	0.063	0.91	-	ARMSTRONG	ASTRO 220SSU050S-T	0.29	0.033	120	1	60	1. REFER TO SPECIFICATIONS 22 10 10

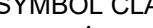
INDOOR AC UNIT SCHEDULE

TAG	SERVING	OUTDOOR UNIT	SUPPLY AIR (L/s)	ESP (Pa)	COOLING (kW)	HEATING (kW)	RATED COOLING CONDITIONS E.A.T. (DB/WB)	MANUFACTURER	MODEL NUMBER	MOTOR SIZE (KW)	MCA	POWER SUPPLY			NOTES:
												VOLTS	PHASE	HZ	
AC-01	100 - WAITING RM.	CU-1	132	0	2.34	2.64	31°C / 23°C	MITSUBISHI	PLFY-P08NFMU-E	0.05	0.28	208	1	60	1. C/W PAR-40MAAU THERMOSTAT AND ASSOCIATED CONTROLS 2. C/W MERV 8 FILTER 3. REFER TO SPECIFICATIONS 23 74 11
AC-02	102 - INTERVIEW RM.	CU-1	125	0	1.46	1.64	31°C / 23°C	MITSUBISHI	PLFY-P05NFMU-E	0.05	0.24	208	1	60	
AC-03	101 - RECEPTION	CU-1	125	0	1.46	1.64	31°C / 23°C	MITSUBISHI	PLFY-P05NFMU-E	0.05	0.24	208	1	60	
AC-04	103/104 - FILE RM.	CU-1	125	0	1.46	1.64	31°C / 23°C	MITSUBISHI	PLFY-P05NFMU-E	0.05	0.24	208	1	60	
AC-05	105 - FOCUS RM.	CU-1	125	0	1.46	1.64	31°C / 23°C	MITSUBISHI	PLFY-P05NFMU-E	0.05	0.24	208	1	60	
AC-06	106 - PM WORKROOM	CU-1	132	0	2.34	2.64	31°C / 23°C	MITSUBISHI	PLFY-P08NFMU-E	0.05	0.28	208	1	60	
AC-07	107 - COMMITTEE RM.	CU-1	125	0	1.46	1.64	31°C / 23°C	MITSUBISHI	PLFY-P05NFMU-E	0.05	0.24	208	1	60	
AC-08	109 - COFFEE BAR	CU-2	132	0	2.34	2.64	31°C / 23°C	MITSUBISHI	PLFY-P08NFMU-E	0.05	0.28	208	1	60	
AC-09	120 - OPEN OFFICE	CU-2	125	0	1.46	1.64	31°C / 23°C	MITSUBISHI	PLFY-P05NFMU-E	0.05	0.24	208	1	60	
AC-10	120 - OPEN OFFICE	CU-2	125	0	1.46	1.64	31°C / 23°C	MITSUBISHI	PLFY-P05NFMU-E	0.05	0.24	208	1	60	
AC-11	120 - OPEN OFFICE	CU-2	125	0	1.46	1.64	31°C / 23°C	MITSUBISHI	PLFY-P05NFMU-E	0.05	0.24	208	1	60	
AC-12	120 - OPEN OFFICE	CU-2	125	0	1.46	1.64	31°C / 23°C	MITSUBISHI	PLFY-P05NFMU-E	0.05	0.24	208	1	60	
AC-13	120 - OPEN OFFICE	CU-2	125	0	1.46	1.64	31°C / 23°C	MITSUBISHI	PLFY-P05NFMU-E	0.05	0.24	208	1	60	
AC-14	123 - MEETING RM.	CU-2	125	0	1.46	1.64	31°C / 23°C	MITSUBISHI	PLFY-P05NFMU-E	0.05	0.24	208	1	60	
AC-15	122 - OFFICE	CU-2	125	0	1.46	1.64	31°C / 23°C	MITSUBISHI	PLFY-P05NFMU-E	0.05	0.24	208	1	60	
AC-16	121 - OFFICE	CU-2	125	0	1.46	1.64	31°C / 23°C	MITSUBISHI	PLFY-P05NFMU-E	0.05	0.24	208	1	60	
AC-17	115 - SERVER RM.	CU-4	146	0	5.27	-	31°C / 23°C	MITSUBISHI	PKA-A18LA-TH	-	1	208	1	60	
FC-01	203 - OPEN OFFICE	CU-3	508	70	10.54	11.71	31°C / 23°C	MITSUBISHI	PEFY-P36NMAU-E4	-	4.25	208	1	60	
FC-02	PERIMETER OFFICES	CU-3	350	70	7.03	7.91	31°C / 23°C	MITSUBISHI	PEFY-P24NMAU-E4	-	2.88	208	1	60	
FC-03	INTERIOR	CU-3	200	70	4.39	4.97	31°C / 23°C	MITSUBISHI	PEFY-P15NMAU-E4	-	2.88	208	1	60	
FC-04	205 - LOUNGE	CU-3	350	70	7.9	8.78	31°C / 23°C	MITSUBISHI	PEFY-P27NMAU-E4	-	2.88	208	1	60	

AIR COOLED CONDENSER SCHEDULE

TAG	COOLING (kW)	HEATING (kW)	REFRIGERANT	MANUFACTURER	MODEL	MCA	ELECTRICAL			NOTES:
							VOLTS	PHASE	HZ	
CU-1	10.6	12.3	R410A	MITSUBISHI	PUMY-HP36NKMU1	36	208	1	60	1. REFER TO SPECIFICATIONS 23 74 11 2. C/W CONTROLLER AND CONTROL WIRING
CU-2	14.1	15.8	R410A	MITSUBISHI	PUMY-HP48NKMU1	36	208	1	60	
CU-3	28.1	31.7	R410A	MITSUBISHI	PURY-HP96TNU-A	44	208	3	60	
CU-4	5.27	-	R410A	MITSUBISHI	PUY-A18NKA7	11	208	1	60	

REGISTERS, GRILLES & DIFFUSERS SCHEDULE

SYMBOL CLARIFICATION  C-250mmØ-380 C-UNIT REFERENCE 250mmØ-UNIT SIZE 380-AIR QUANTITY L/s					
REFERENCE	FUNCTION	STYLE	MODEL NUMBER	MOUNTING	REMARKS:
A	SUPPLY AIR	SQUARE CONE	SCD/31/3C/B12	T-BAR	REFER TO PLAN FOR NECK SIZE AND CEILING TYPE, APPLICATION WHITE COLOUR
B	SUPPLY AIR	LOUVERED FACE	520D/F/LA/B12	DUCT	REFER TO PLAN FOR GRILLE SIZE, APPLICATION WHITE COLOUR. C/W SDF FRAME FOR DUCT MOUNTING.
C	RETURN AIR / TRANSFER AIR	LOUVERED FACE	530D/F/LA/B12	T-BAR / WALL	REFER TO PLAN FOR SIZE, APPLICATION WHITE COLOUR
D	EXHAUST AIR	EGG CRATE	80/F/A/B12	DRYWALL / WALL	REFER TO PLAN FOR GRILLE SIZE, APPLICATION WHITE COLOUR. C/W VCS3 DAMPER AT GRILLE FACE.
E	TRANSFER AIR	LOUVERED FACE	ATG1/BF/B15	DOOR	REFER TO PLAN FOR GRILLE SIZE, APPLICATION WHITE COLOUR

FAN SCHEDULE

TAG	LOCATION	MOUNTING	SUPPLY AIR (L/S)	E.S.P (KPa)	MOTOR (KW)	RPM	MANUFACTURER	MODEL	ELECTRICAL				NOTES:
									AMPS	VOLTS	PHASE	HZ	
EF-1	MULTI-PURPOSE RM. (202)	CABINET	47.19	0.05	0.030	1050	REVERSOMATIC	QK-130E	0.25	120	1	60	1. REFER TO SPECIFICATIONS 23 34 00 2. INTERLOCKED WITH SWITCH



VPCH OFFICE EXPANSION

155 QUEEN ST NORTH
HAMILTON, ONTARIO



25 Main Street West
Hamilton, Ontario
L8P 1H1 Canada
T: 905-522-0220

Seals:



MCW Consultants Ltd.
207 Queen's Quay West, Suite 615, Toronto, ON, M5J 1A7
E-Mail: mcw_tor@mcw.com www.mcw.com
Tel: 416-598-2920 Fax: 416-598-5394
Toronto Vancouver Winnipeg Moncton Ottawa Halifax
Dauphin Kelowna Trail Saint John

04	Issued for Tender	2023.09.08
03	Issued for Building Permit	2023.04.21
02	Issued for Review	2023.03.03
01	Issued for Review	2022.11.23
No.:	Issues / Revisions	YYYY.MM.DD

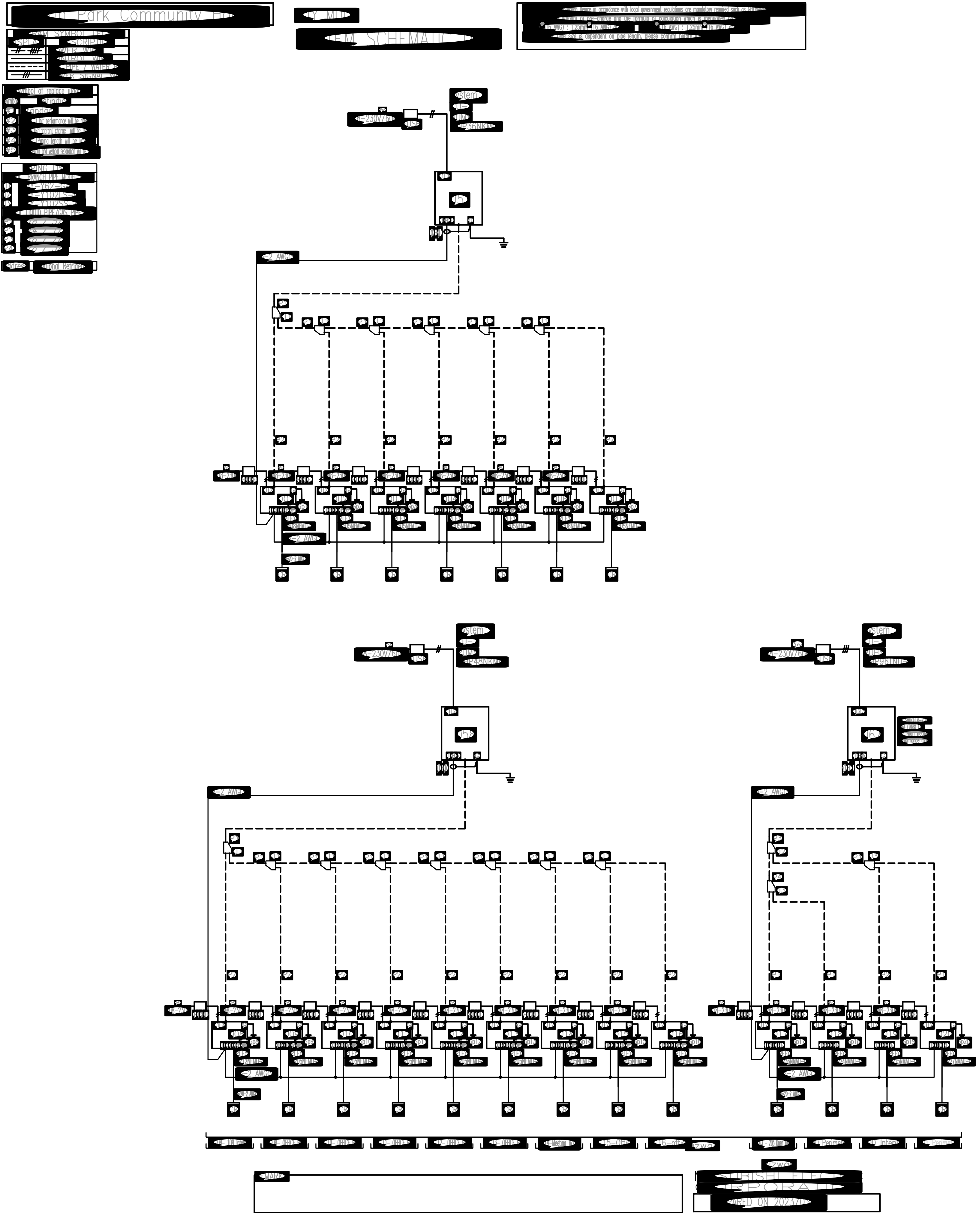
Drawing Title:

MECHANICAL SCHEDULES

Issue Date:	2023.06.23
Drawn By: MF/VS	Checked By: AB
Project No.: 21424	Drawing Scale: N.T.S.

Drawing No.:

M6.01



VPCH OFFICE EXPANSION

155 QUEEN ST NORTH
HAMILTON, ONTARIO



25 Main Street West
Hamilton, Ontario
L8P 1H1 Canada
T: 905-522-0220

Seals:

MCW *Consultants Ltd.*
207 Queen's Quay West, Suite 615, Toronto, ON, M5J 1A7
E-Mail: mcw_tor@mcw.com www.mcw.com
Tel: 416-598-2920 Fax: 416-598-5394
Toronto Vancouver Winnipeg Moncton Ottawa Halifax
Dauphin Kelowna Trail Saint John

04	Issued for Tender	2023.09.08
03	Issued for Building Permit	2023.04.21
02	Issued for Review	2023.03.03
01	Issued for Review	2022.11.23
No.:	Issues / Revisions	YYYY.MM.DD

Drawing Title:

VRF SCHEMATIC

Issue Date:	2023.06.23
Drawn By: MF/VS	Checked By: AB
Project No.: 21424	Drawing Scale: N.T.S.

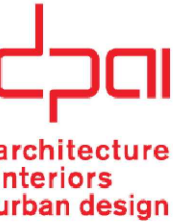
Drawing No.:

M6.02



VPCH OFFICE EXPANSION

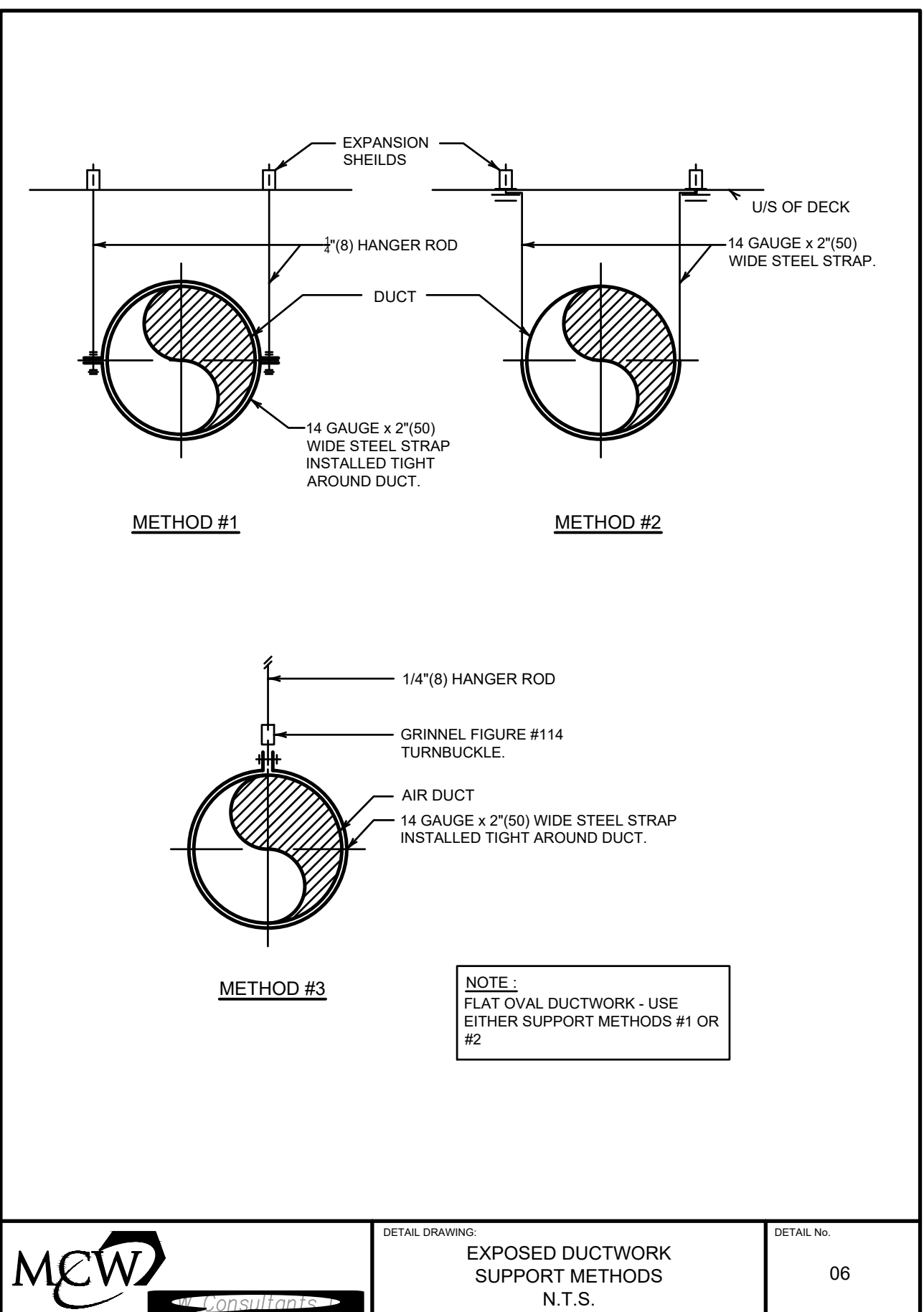
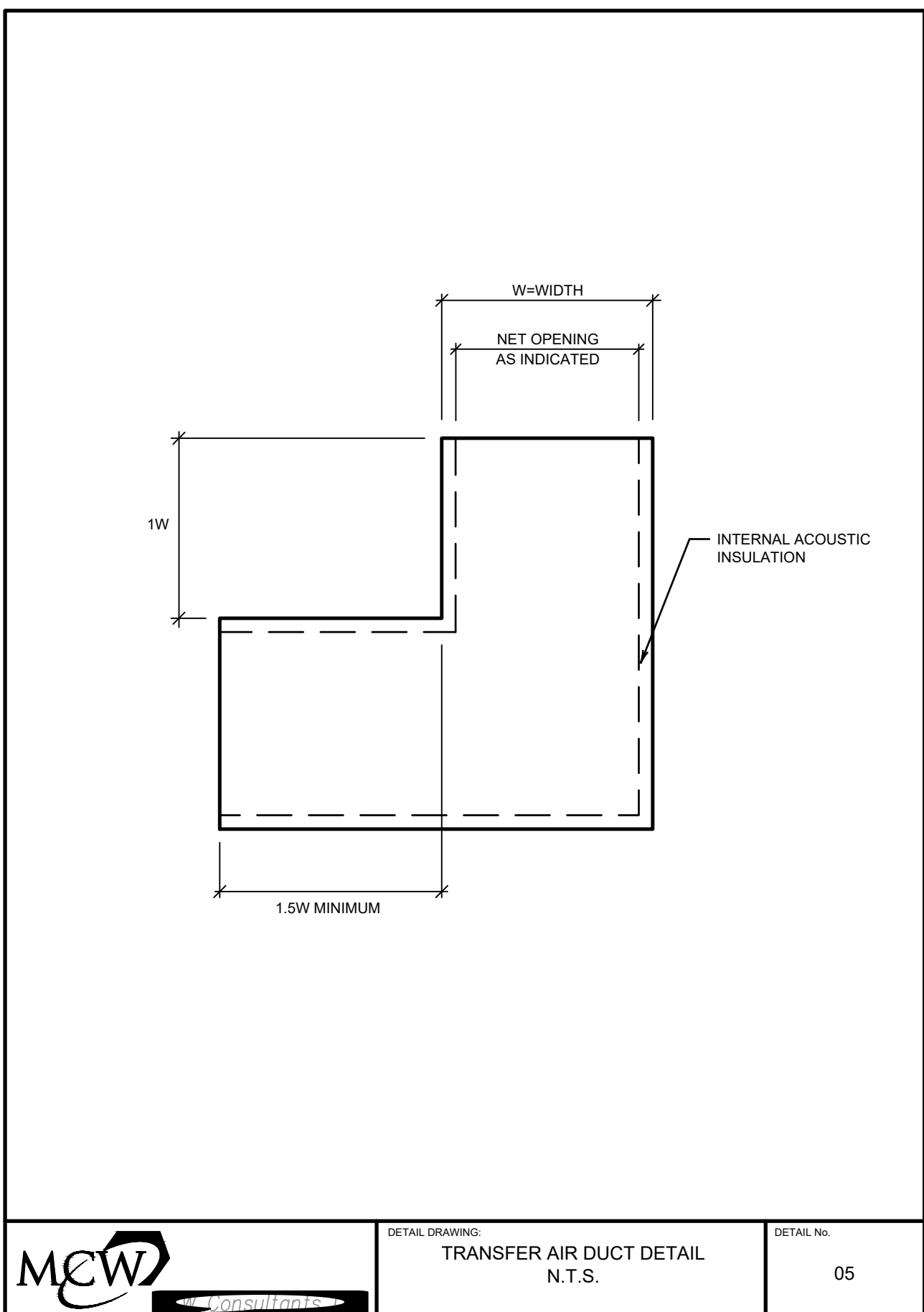
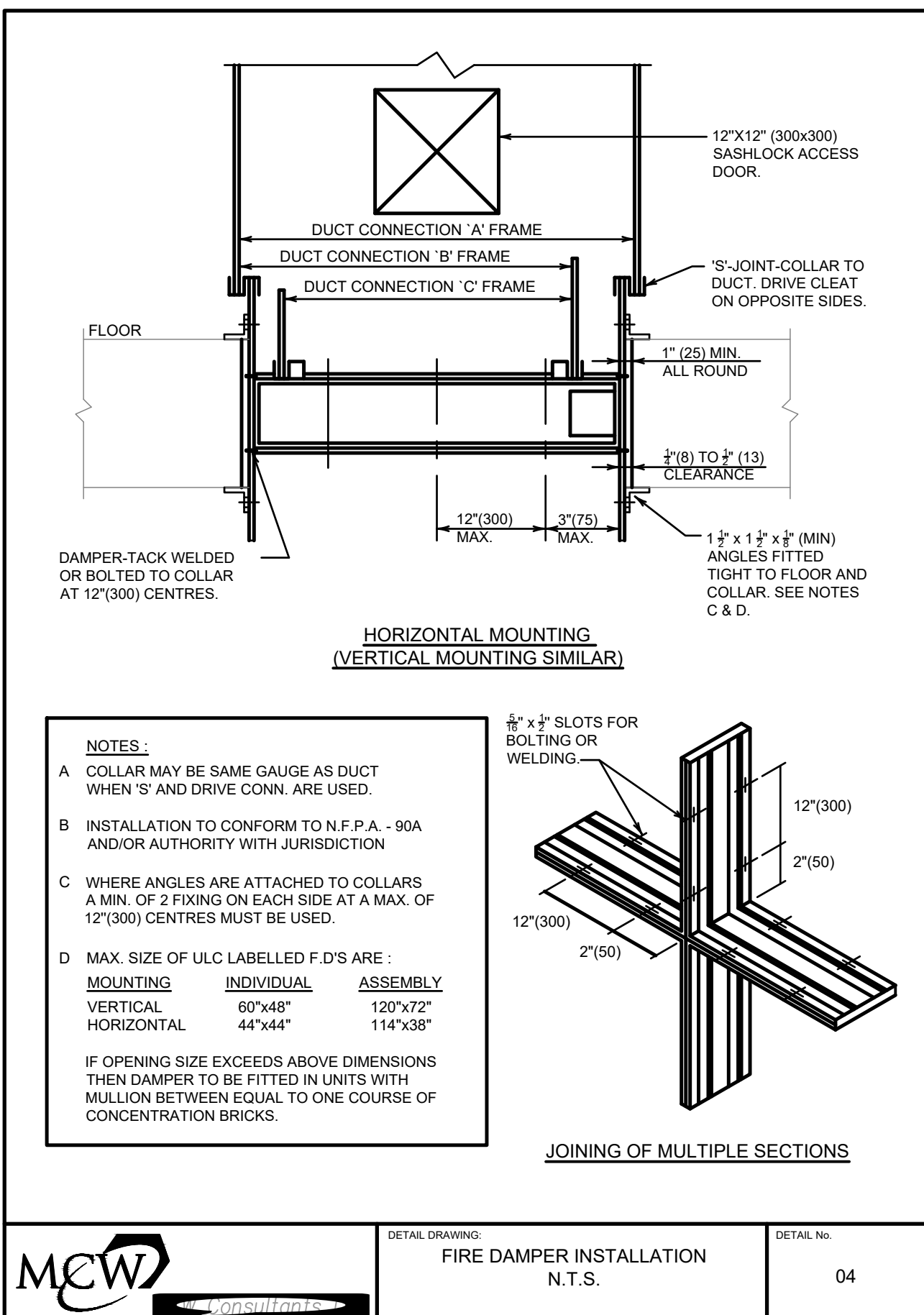
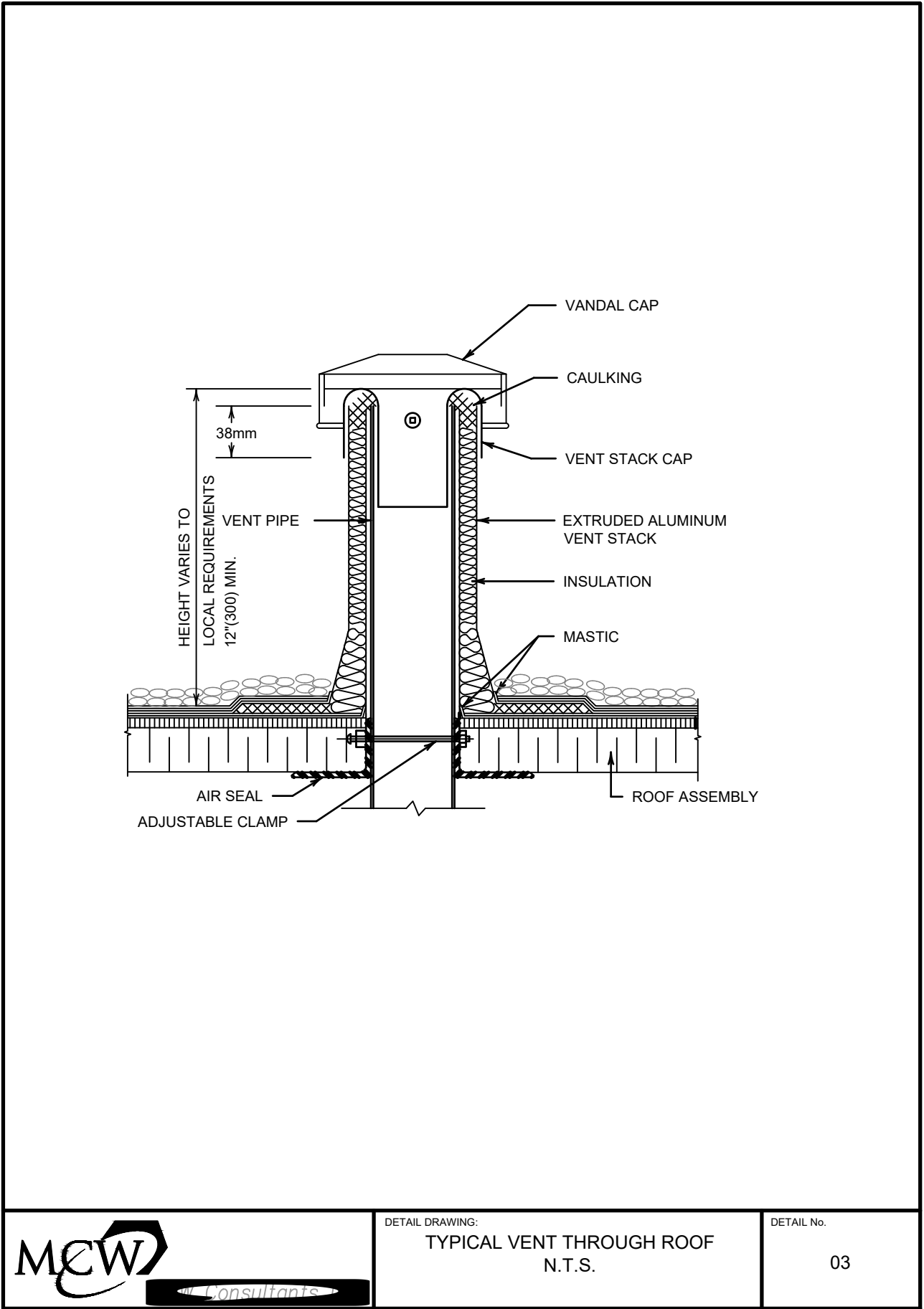
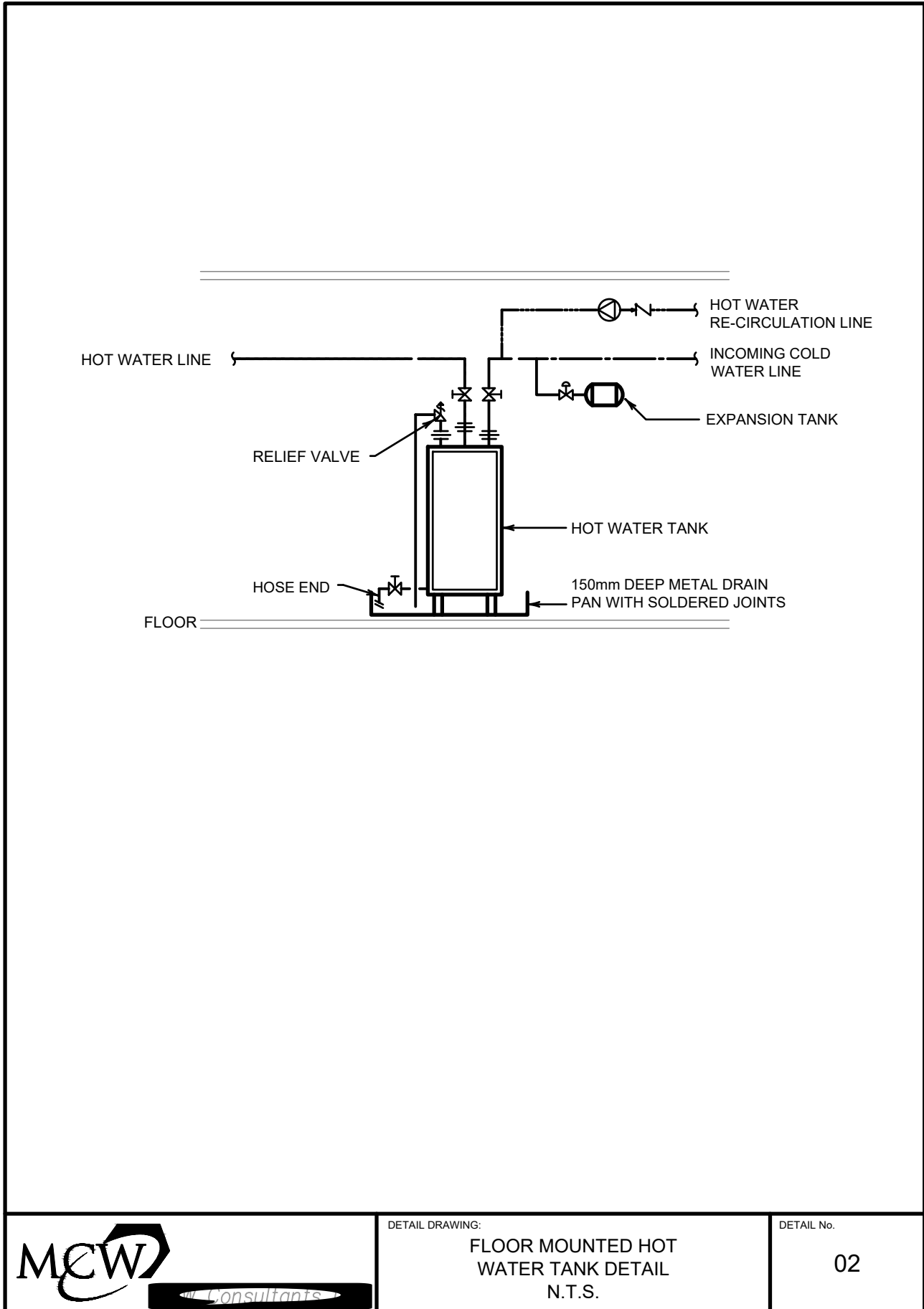
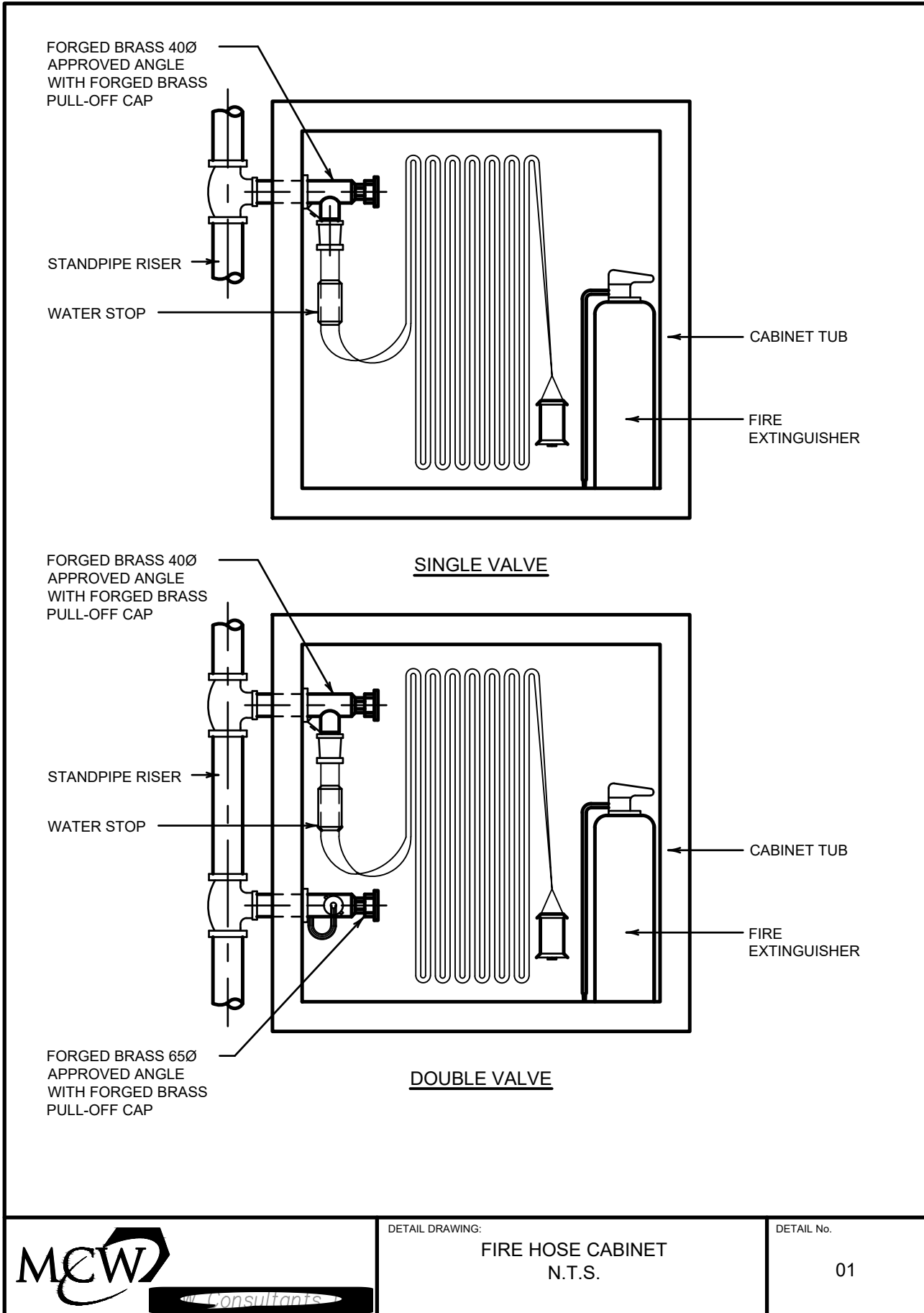
155 QUEEN ST NORTH
HAMILTON, ONTARIO



25 Main Street West
Hamilton, Ontario
L8P 1H1 Canada
T: 905-522-0220



MCW Consultants Ltd.
207 Queen's Quay West, Suite 615, Toronto, ON, M5J 1A7
E-Mail: mcw_tor@mcw.com www.mcw.com
Tel: 416-598-2920 Fax: 416-598-5394
Toronto Vancouver Winnipeg Moncton Ottawa Halifax
Dauphin Kelowna Trail Saint John



04	Issued for Tender	2023.09.08
03	Issued for Building Permit	2023.04.21
02	Issued for Review	2023.03.03
01	Issued for Review	2022.11.23

No.: Issues / Revisions YYYY.MM.DD

Drawing Title:

MECHANICAL DETAILS

Issue Date: 2023.06.23
Drawn By: MF/VS Checked By: AB
Project No.: 21424 Drawing Scale: N.T.S.

Drawing No.:

M6.03