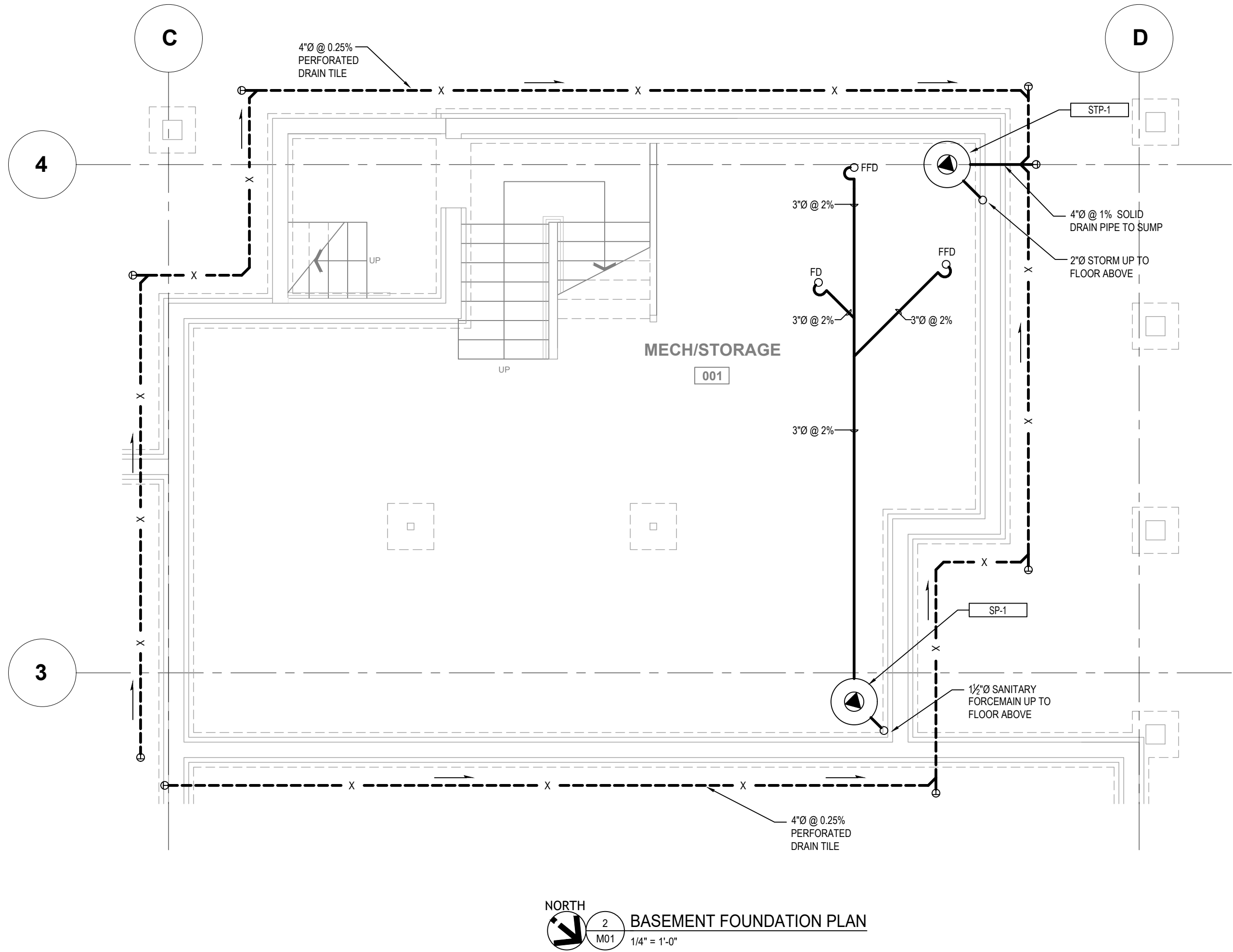
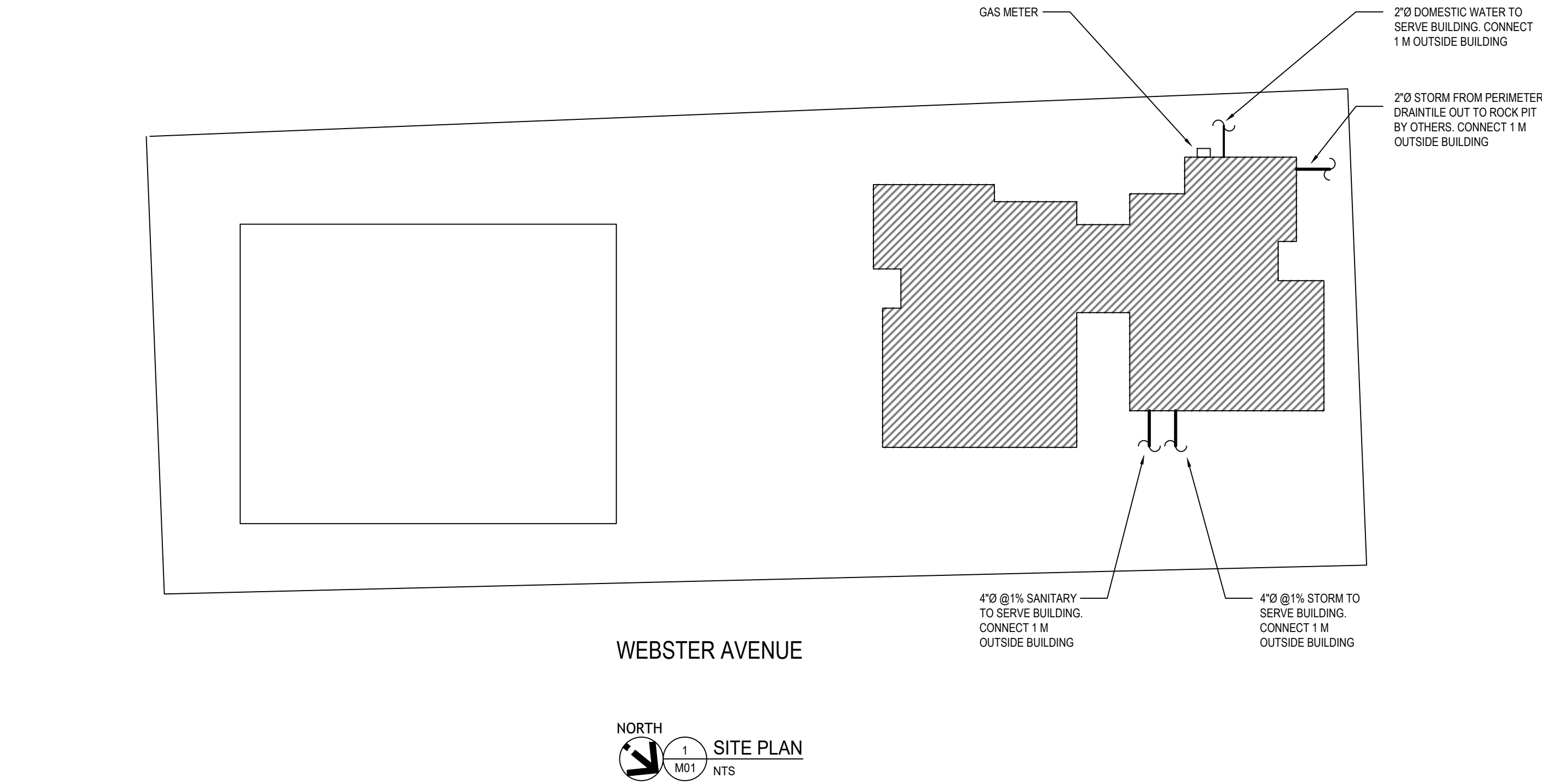




BUILDING SITE INFORMATION			
420 WEBSTER AVENUE, QUESNEL, BC			
BUILDING WATER SERVICE			
PIPING SIZED USING AVERAGE PRESSURE LOSS METHOD			
DESCRIPTION	FIXTURE UNITS	USGPM	LITRES/SECOND
DOMESTIC WATER	61.6	32.48	2.05
TOTAL WATER SERVICE	61.6	32.48	2.05
BUILDING SANITARY LOAD			
DESCRIPTION	FIXTURE UNITS		
BUILDING	61		
TOTAL SANITARY SERVICE	61		
BUILDING STORM LOAD			
(BASED ON 10MM/15MIN RAINFALL INTENSITY)			
DESCRIPTION	AREA (m²)	LITRES	
BUILDING	282	2,820	
SITE	-	-	
TOTAL STORM SERVICE	282	2,820	

BUILDING GAS LOAD	
DESCRIPTION	BTU/H
FURNACE, FLUR-1	110,000
FURNACE, FLUR-2	88,000
HOT WATER TANK, HWT-1	125,000
TOTAL GAS SERVICE	323,000
LENGTH OF PIPE	40 FT
GAS PRESSURE IN BUILDING	2 PSI
BUILDING ENERGY - MECHANICAL	
HVAC DESIGN	
ENERGY STANDARD/CODE	ASHRAE 90.1-2016
COMPLIANCE PATH	PRESCRIPTIVE
DESIGN METHOD	MANDATORY PROVISIONS & PRESCRIPTIVE
IN ACCORDANCE WITH	SECTION 6
CLIMATE ZONE	5
VENTILATION	ASHRAE 62.1-2001 (EXCEPT ADDENDUM N)
GENERAL NOTES:	
1. INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE BRITISH COLUMBIA BUILDING CODE 2018, BRITISH COLUMBIA PLUMBING CODE 2018, LOCAL BUILDING BYLAWS, MUNICIPAL GUIDELINES AND REQUIREMENTS WHERE APPLICABLE.	
2. MECHANICAL SERVICES ARE SCHEMATIC REPRESENTATION ONLY. MECHANICAL CONTRACTOR SHALL FIELD MEASURE ALL MATERIAL PRIOR TO INSTALLATION. PROVIDE OFFSETS WHERE NECESSARY TO AVOID CONFLICT WITH STRUCTURAL AND ALL OTHER TRADES.	

KEYPLAN:

3	2022-06-17	ISSUED FOR BP / TENDER	MW
2	2021-07-19	ISSUED FOR ELEC COORDINATION	MW
1	2021-07-16	ISSUED FOR REVIEW	MW
No.	DATE	DESCRIPTION	BY

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SEAL:



CLIENT:

PROJECT:
**QUESNEL & DISTRICT
DAYCARE SOCIETY**

420 WEBSTER AVENUE
QUESNEL, BC

DRAWING NAME:
FOUNDATION PLAN

PROJECT NUMBER:
21424-T

DRAWN BY: GPJUS
DESIGNED BY: MW
APPROVED BY: MW
SCALE: AS NOTED

DRAWING:

M01

SYMBOL SCHEDULE

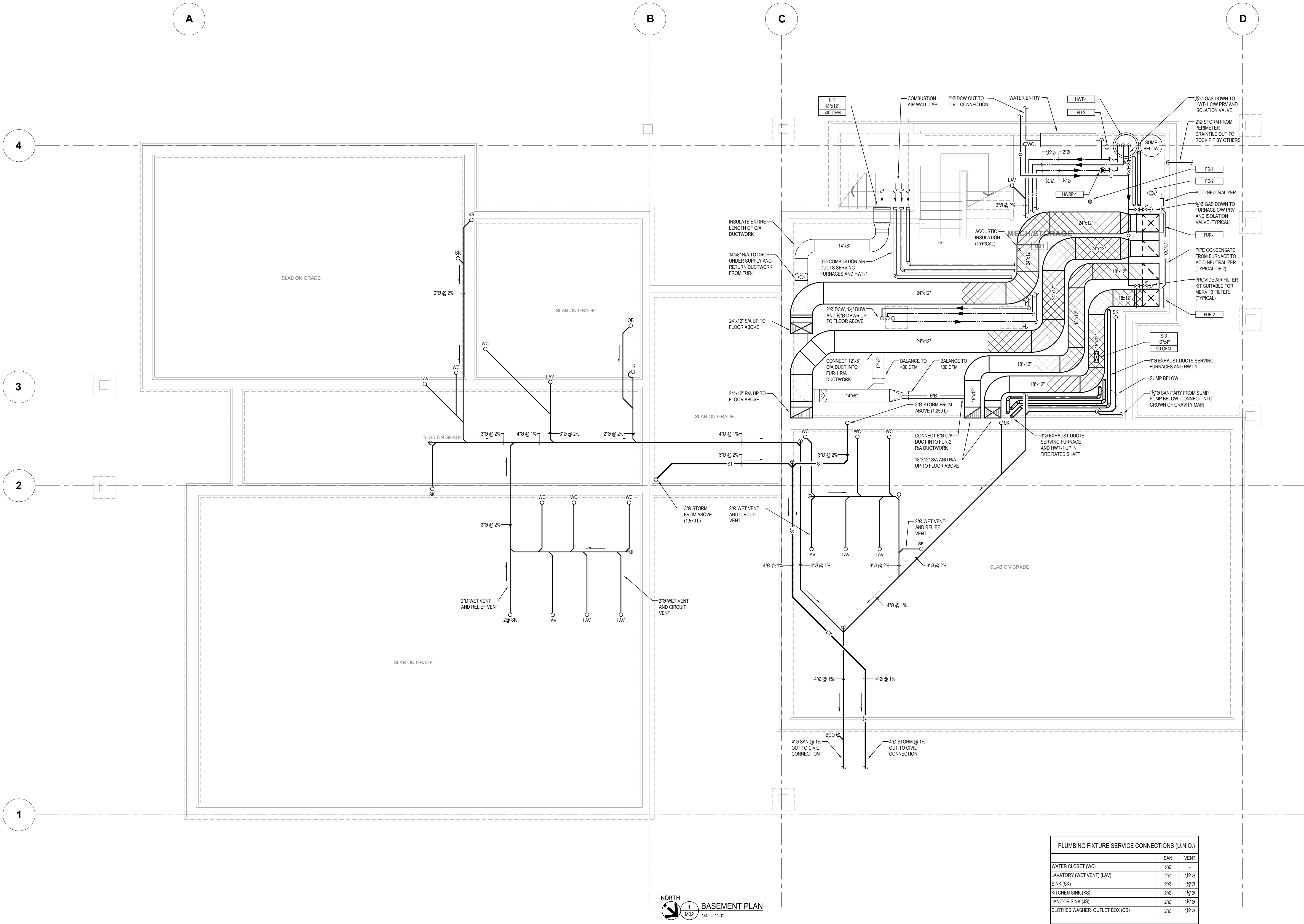
NEW

	SUPPLY OR OUTDOOR AIR DUCT UP
	SUPPLY OR OUTDOOR AIR DUCT DOWN
	RETURN AIR DUCT UP
	RETURN AIR DUCT DOWN
	EXHAUST AIR DUCT UP
	EXHAUST AIR DUCT DOWN
	OUTSIDE AIR DUCT UP
	OUTSIDE AIR DUCT DOWN
	TURNING VANES
	ACOUSTIC INSULATION
	BALANCING DAMPER
	BACK DRAFT DAMPER
	OPPOSED BLADE DAMPER
	ACCESS PANEL
	DUCT OR PIPE CAP-OFF
	SUPPLY AIR DIFFUSER
	SUPPLY AIR GRILLE
	EXHAUST AIR GRILLE
	RETURN AIR GRILLE
	DOMESTIC COLD WATER (DOW)
	DOMESTIC HOT WATER (DHW)
	DOMESTIC HOT WATER RECIRC. (DHWR)
	SANITARY VENT
	SANITARY SEWER
	STORM SEWER
	RADON
	PIPE CLEAN-OUT
	PIPE CLEAN-OUT TO GRADE
	DRAIN TILE
	NATURAL GAS
	DIRECTION OF FLOW
	SLOPE PIPE OR DUCT
	PIPE DROP
	PIPE RISE
	PIPE TEE DOWN
	PIPE TEE UP
	PIPE UNION
	PIPE REDUCER
	GATE VALVE (NORMALLY OPEN)
	GATE VALVE (NORMALLY CLOSED)

SYMBOL SCHEDULE

NEW

	CHECK VALVE
	BALANCING VALVE
	PRESSURE REDUCING VALVE
	STRAINER
	RELIEF VALVE
	BACKFLOW PREVENTOR
	TEMPERATURE GAUGE
	PRESSURE GAUGE
	PUMP
	OPEN DRAIN
	FLOOR DRAIN
	FUNNEL FLOOR DRAIN
	ROOF DRAIN
	THERMOSTAT
	ELECTRIC SWITCH
	GRILLE TYPE
	NECK / GRILLE SIZE
	AIR VOLUME
	EQUIPMENT / FIXTURE TYPE
	GENERAL NOTE
	KEYED NOTE
	DRAWING REVISION
	DETAIL NUMBER
	DRAWING NUMBER
	SECTION NUMBER
	DRAWING NUMBER
	UNDER-CUT DOOR
	SUPPLY AIR
	RETURN AIR
	OUTDOOR AIR
	EXHAUST AIR
	TRANSFER AIR
	MANHOLE
	CATCH BASIN
	RAIN WATER LEADER
	WET VENT
	TAMPER SWITCH
	NOT IN CONTRACT
	NOT TO SCALE
	COMPLETE WITH



3	2022-06-17	ISSUED FOR BP / TENDER	MW
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1	2021-07-16	ISSUED FOR REVIEW	MW
No.	DATE	DESCRIPTION	BY

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SEAL:



PERMIT TO PRACTICE #1000700

CLIENT:

PROJECT:

QUESNEL & DISTRICT
DAYCARE SOCIETY

420 WEBSTER AVENUE
QUESNEL, BC

DRAWING NAME:

MAIN FLOOR PLUMBING PLAN

PROJECT NUMBER:

21424-T

DRAWN BY:

GRJS

DESIGNED BY:

MW

APPROVED BY:

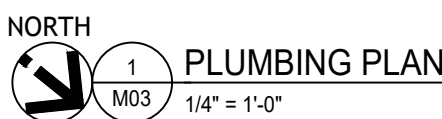
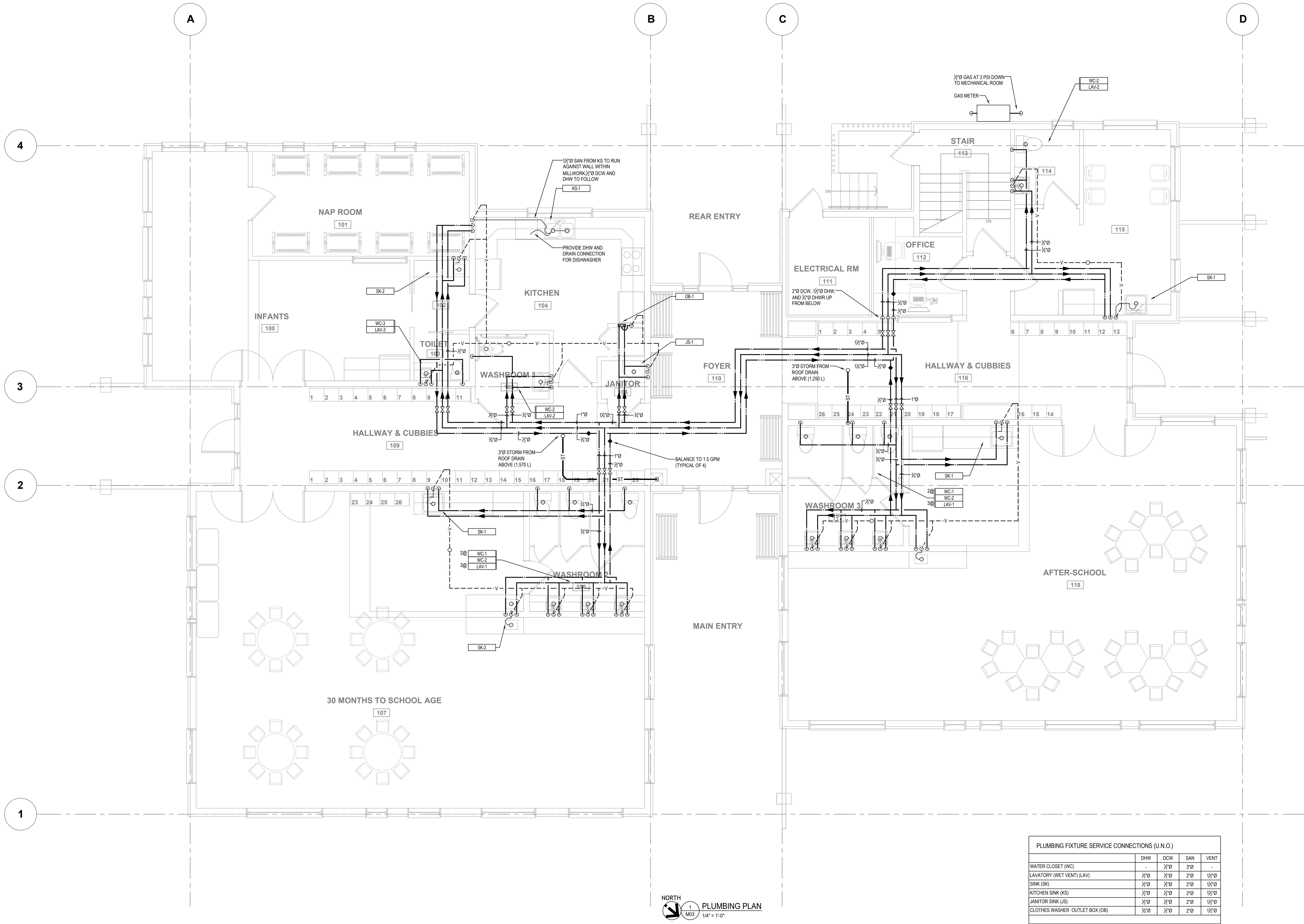
MW

SCALE:

AS NOTED

DRAWING:

M03



PLUMBING FIXTURE SERVICE CONNECTIONS (U.N.O.)				
	DHW	DCW	SAN	VENT
WATER CLOSET (WC)	-	1/2"	3"	-
LAVATORY (WET VENT) (LAV)	1/2"	1/2"	2"	1 1/2"
SINK (SK)	1/2"	1/2"	2"	1 1/2"
KITCHEN SINK (KS)	1/2"	1/2"	2"	1 1/2"
JANITOR SINK (JS)	1/2"	1/2"	2"	1 1/2"
CLOTHES WASHER OUTLET BOX (OB)	3/4"	1/2"	2"	1 1/2"

3	2022-06-17	ISSUED FOR BP / TENDER	MW
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1	2021-07-16	ISSUED FOR REVIEW	MW
No.	DATE	DESCRIPTION	BY

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SEAL:



PERMIT TO PRACTICE #1000700

CLIENT:

PROJECT:

QUESNEL & DISTRICT
DAYCARE SOCIETY

420 WEBSTER AVENUE
QUESNEL, BC

DRAWING NAME:

MAIN FLOOR HVAC PLAN

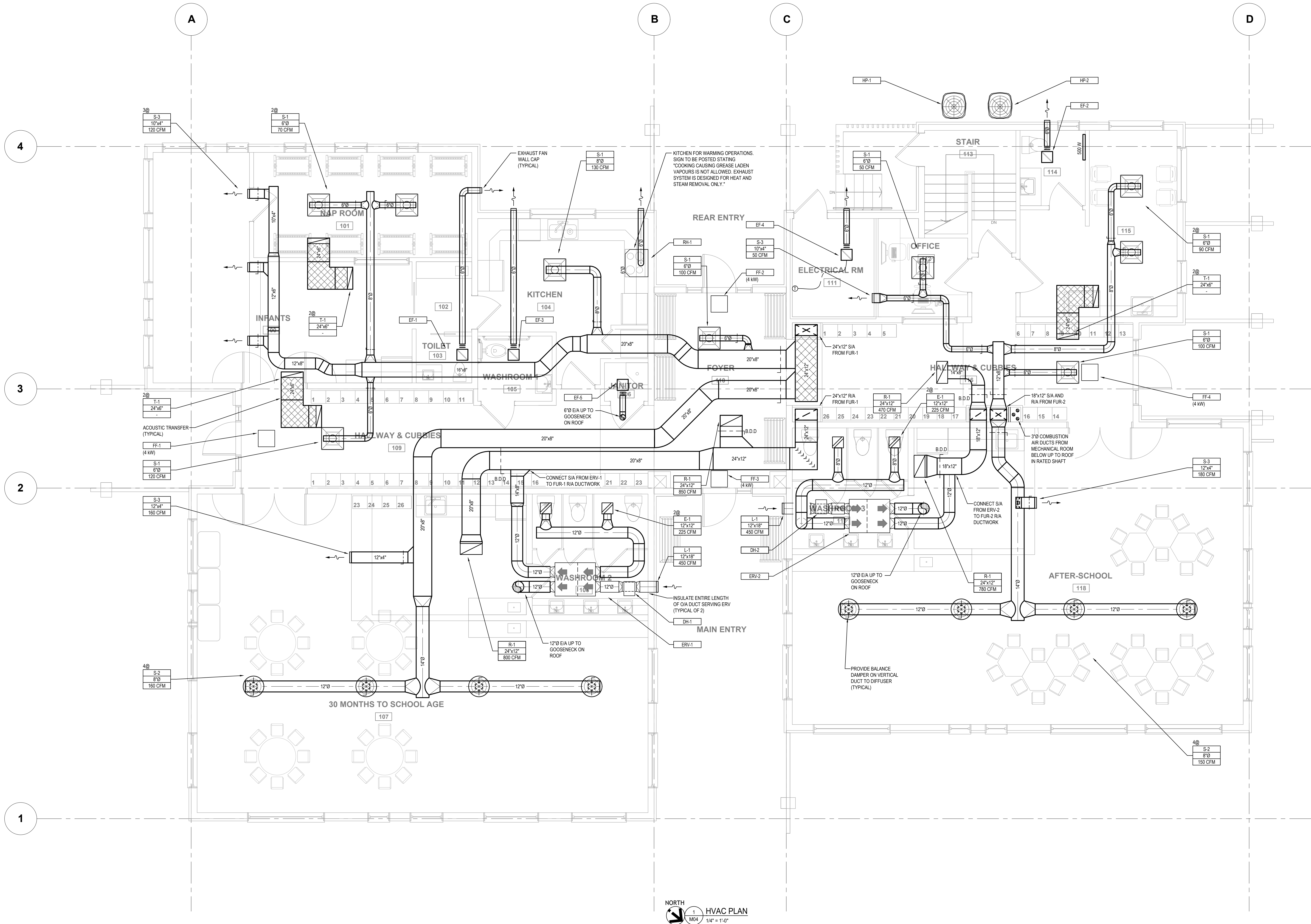
PROJECT NUMBER:

21424-T

DRAWN BY: GPJ/S
DESIGNED BY: MW
APPROVED BY: MW
SCALE: AS NOTED

DRAWING:

M04



3	2022-06-17	ISSUED FOR BP / TENDER	MW
2	2021-07-19	ISSUED FOR ELEC COORDINATION	MW
1	2021-07-16	ISSUED FOR REVIEW	MW
No.	DATE	DESCRIPTION	BY

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SEAL:



CLIENT:

PROJECT:

QUESNEL & DISTRICT
DAYCARE SOCIETY

420 WEBSTER AVENUE
QUESNEL, BC

DRAWING NAME:

ROOF PLAN

PROJECT NUMBER:

21424-T

DRAWN BY:

GP/JS

DESIGNED BY:

MW

APPROVED BY:

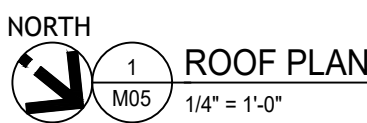
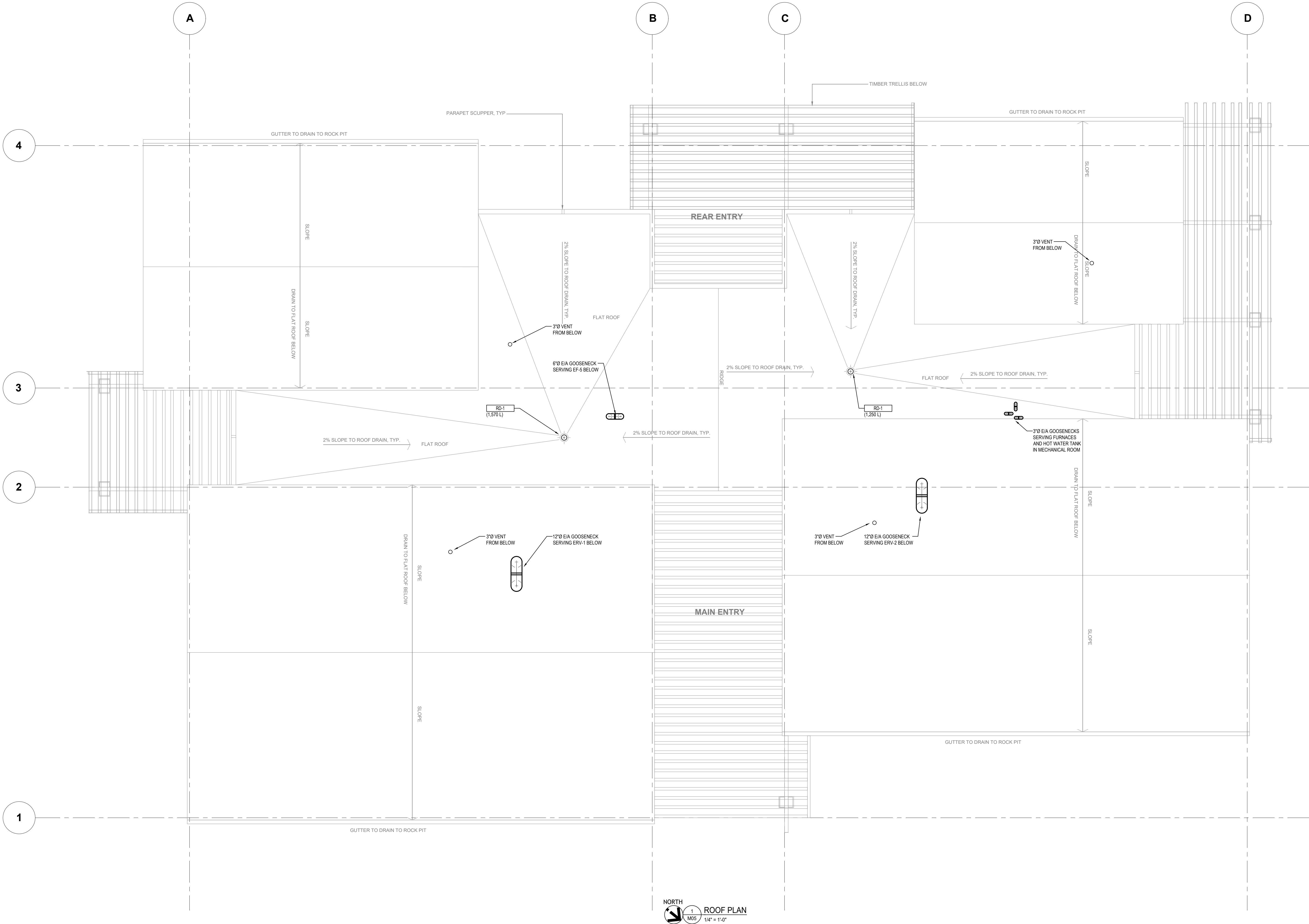
MW

SCALE:

AS NOTED

DRAWING:

M05



3	2022-06-17	ISSUED FOR BP / TENDER	MW
2	2021-07-19	ISSUED FOR ELEC COORDINATION	MW
1	2021-07-16	ISSUED FOR REVIEW	MW
No.	DATE	DESCRIPTION	BY

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SEAL:



PERMIT TO PRACTICE #1000700

CLIENT:

PROJECT:

QUESNEL & DISTRICT
DAYCARE SOCIETY

420 WEBSTER AVENUE
QUESNEL, BC

DRAWING NAME:

MECHANICAL DETAILS

PROJECT NUMBER:

21424-T

DRAWN BY:

GPJUS

DESIGNED BY:

MW

APPROVED BY:

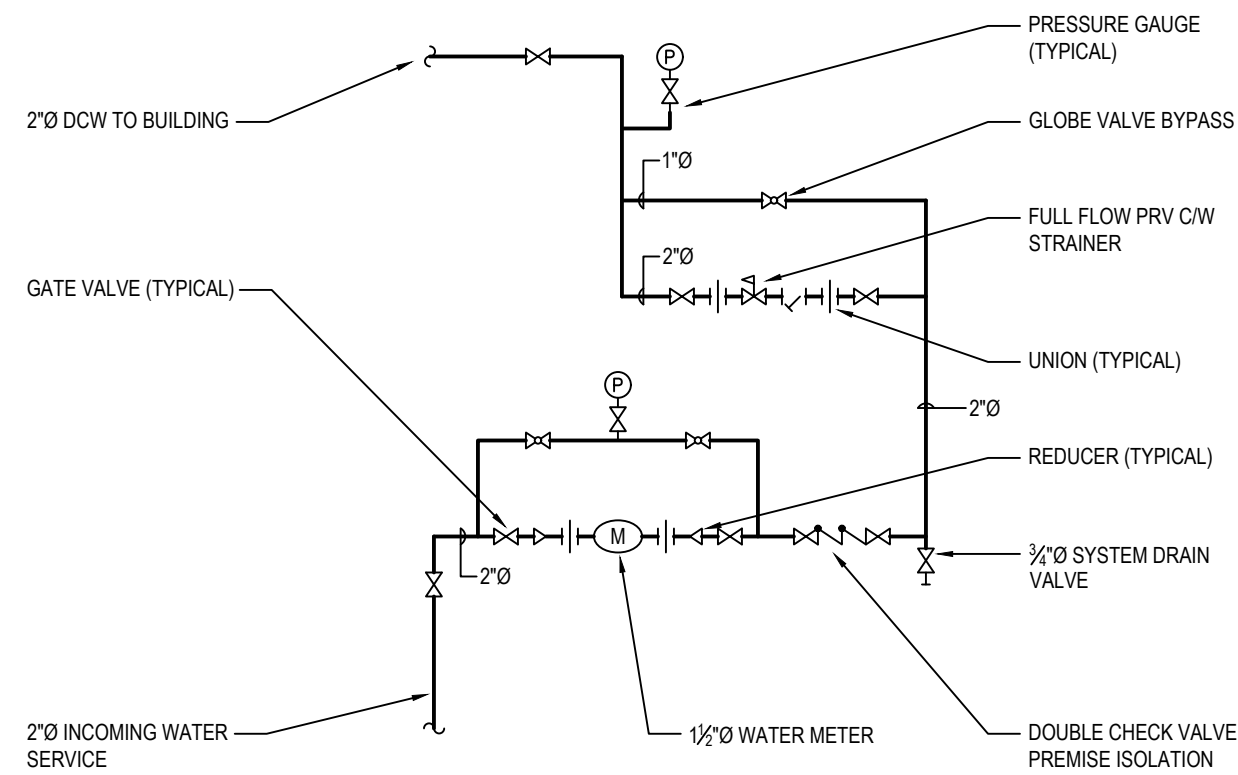
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SCALE:

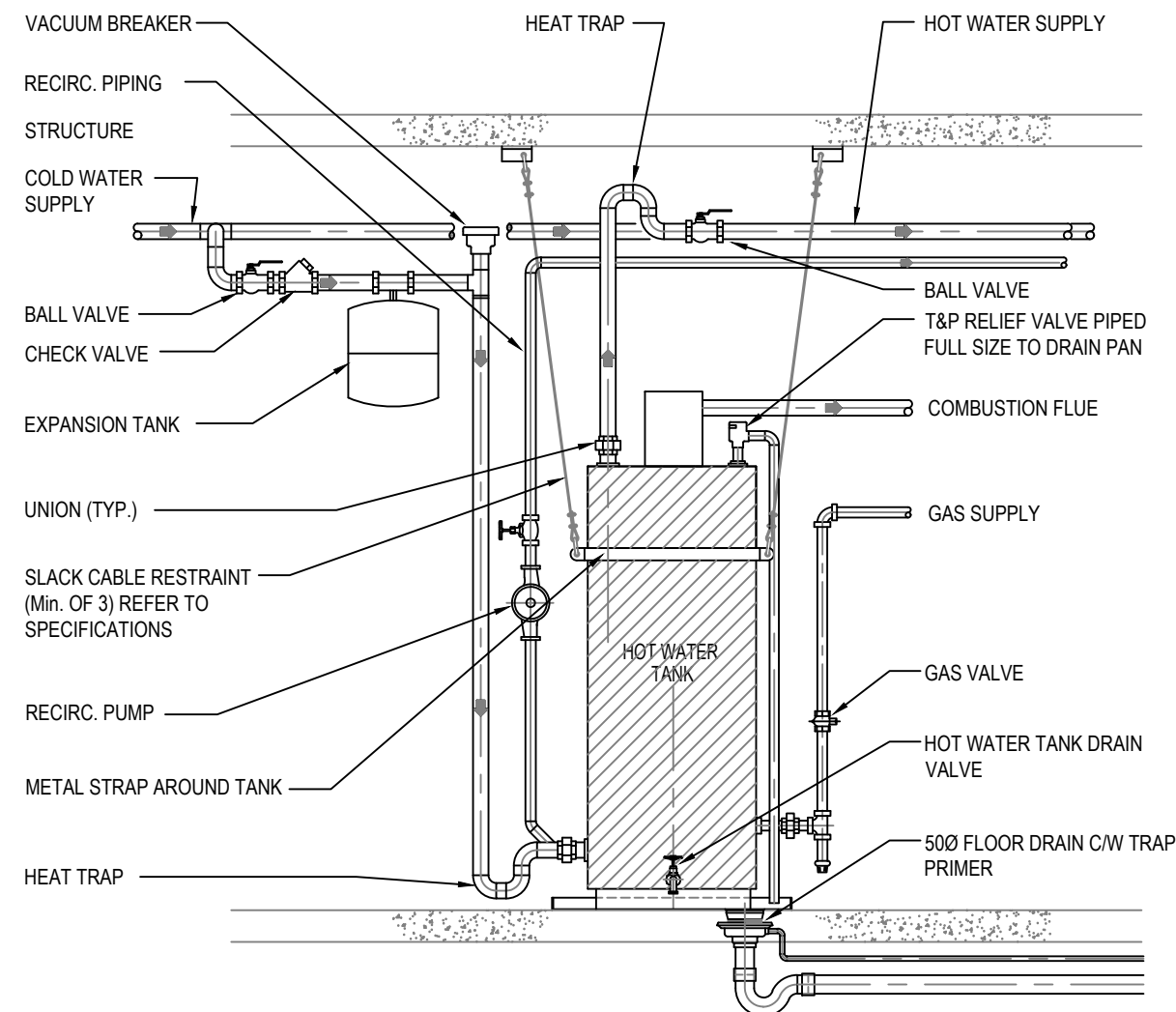
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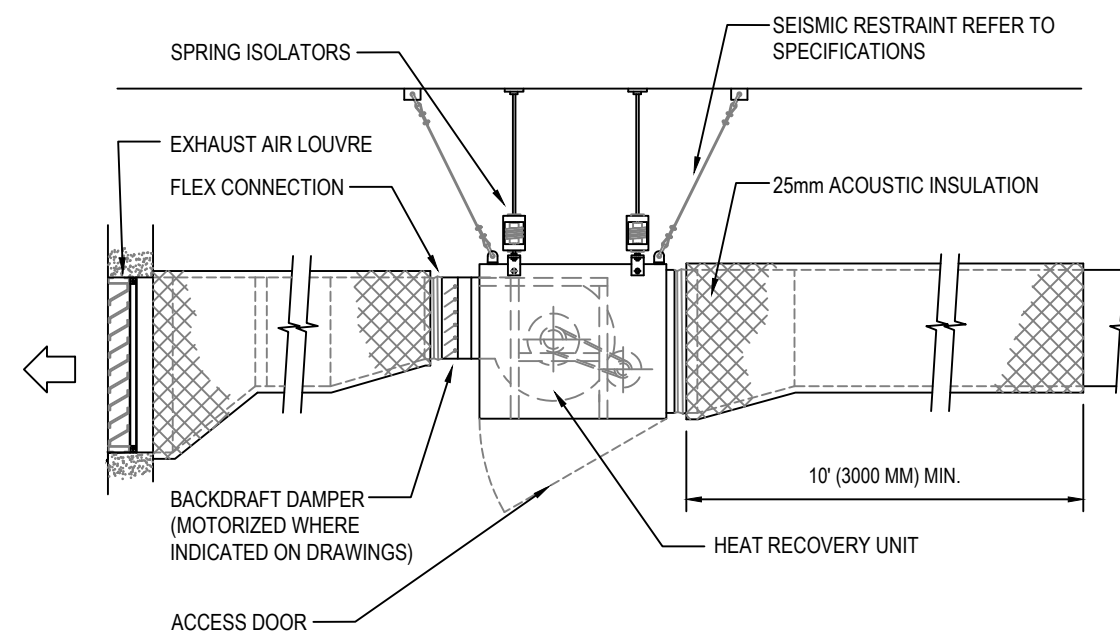
M06



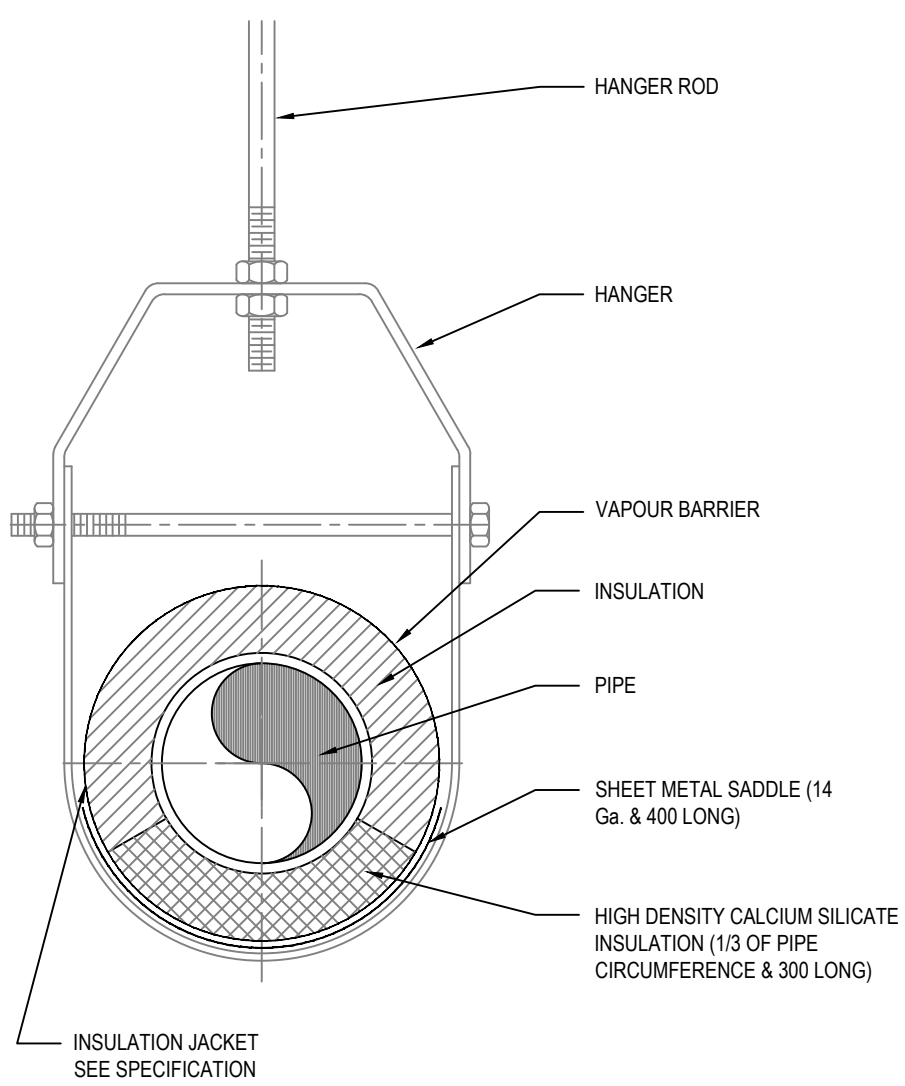
1 WATER ENTRY DETAIL
M06 N.T.S.



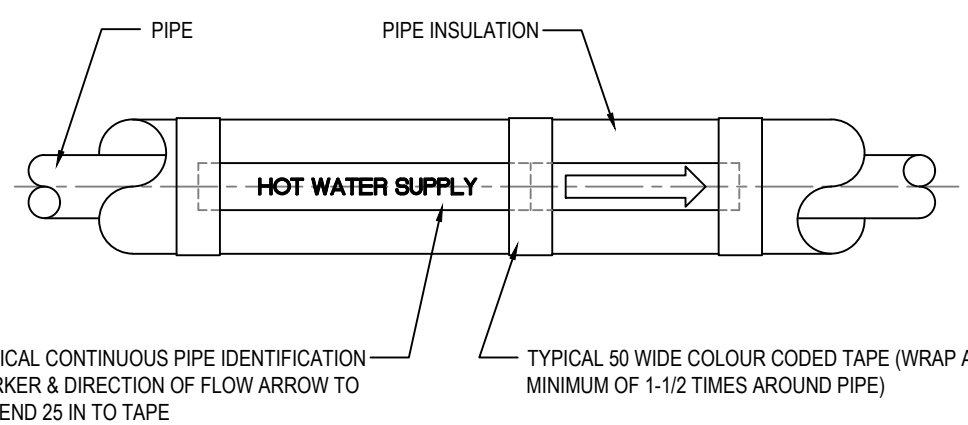
2 DOMESTIC HOT WATER TANK DETAIL
M06 N.T.S.



3 HRV DETAIL
M06 N.T.S.

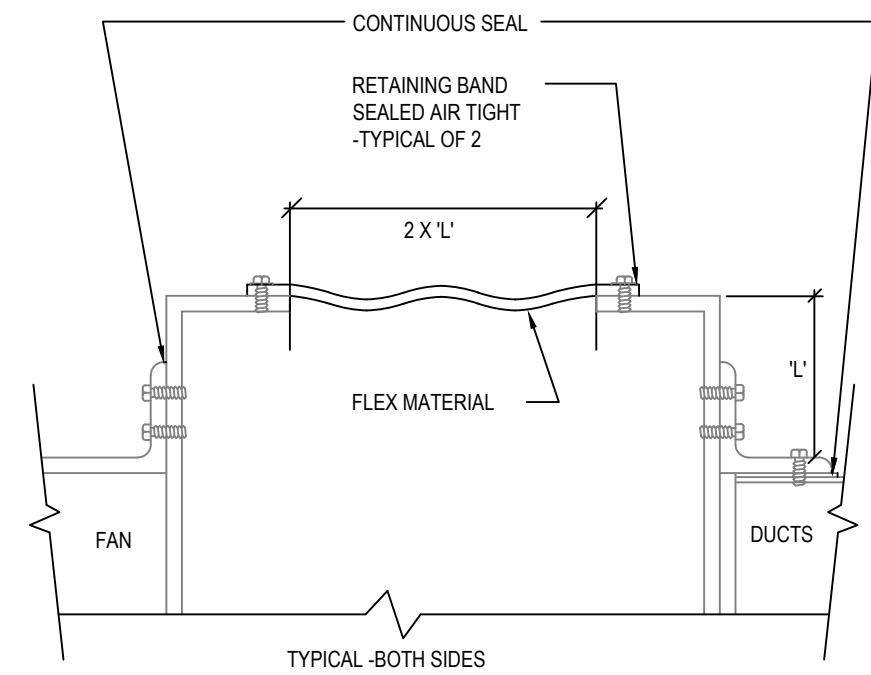


4 INSULATED PIPE HANGER DETAIL
M06 N.T.S.



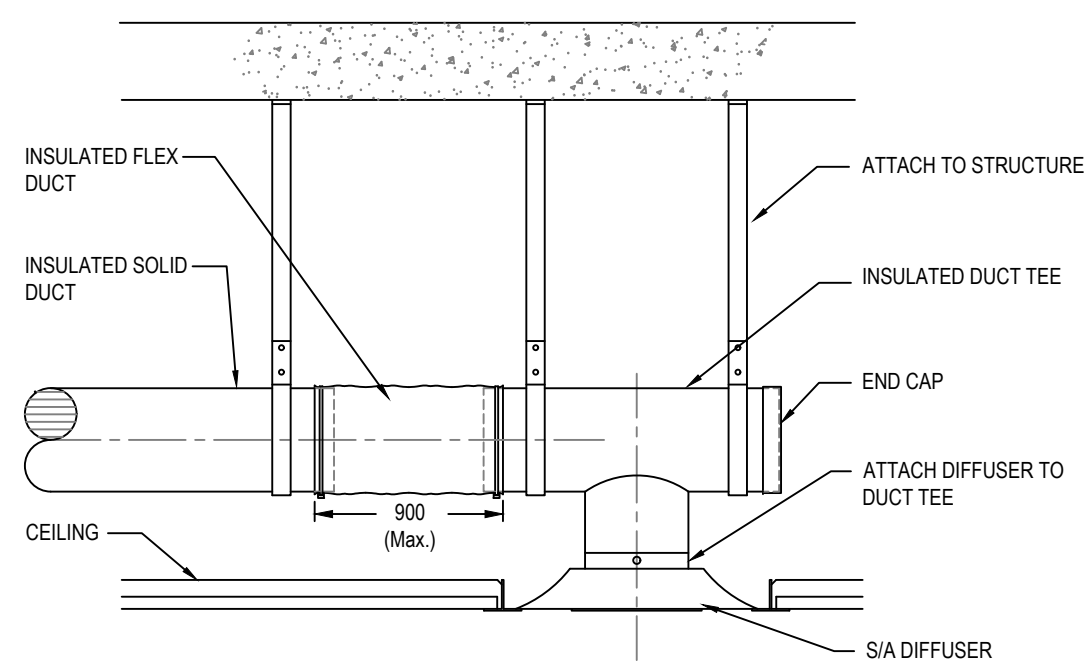
NOTES
APPLY A CONTINUOUS COATING OF CONTACT CEMENT TO THE LABEL TO ENSURE PERMANENT ADHESION
REFER TO SPECIFICATION FOR COLOUR CODING OF SERVICES
INSTALL AT 15000 INTERVALS (MAXIMUM) AND AT EACH CHANGE DIRECTION.

5 PIPE IDENTIFICATION DETAIL
M06 N.T.S.

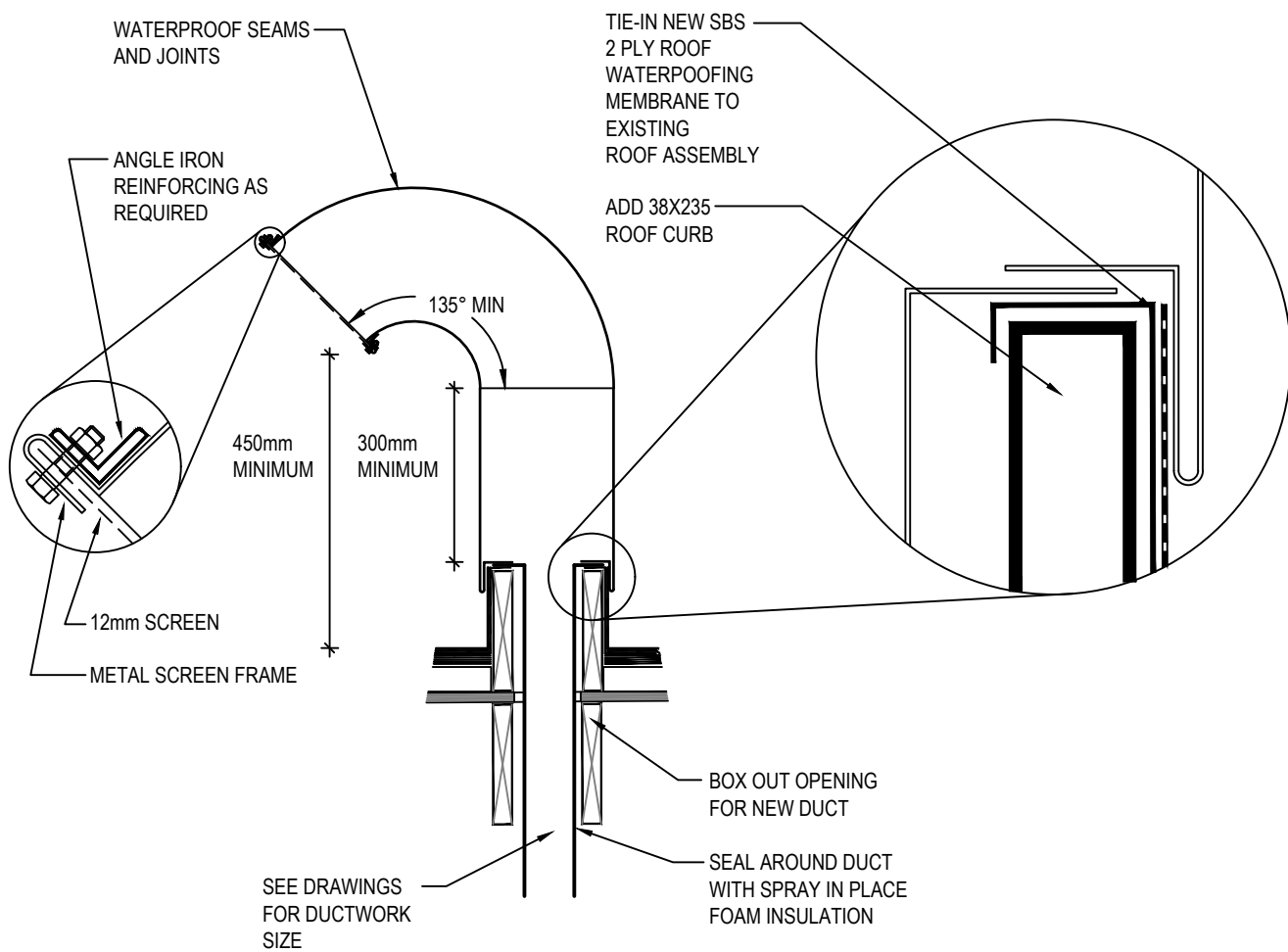


6 FLEXIBLE FAN/DUCT CONNECTION
M06 N.T.S.

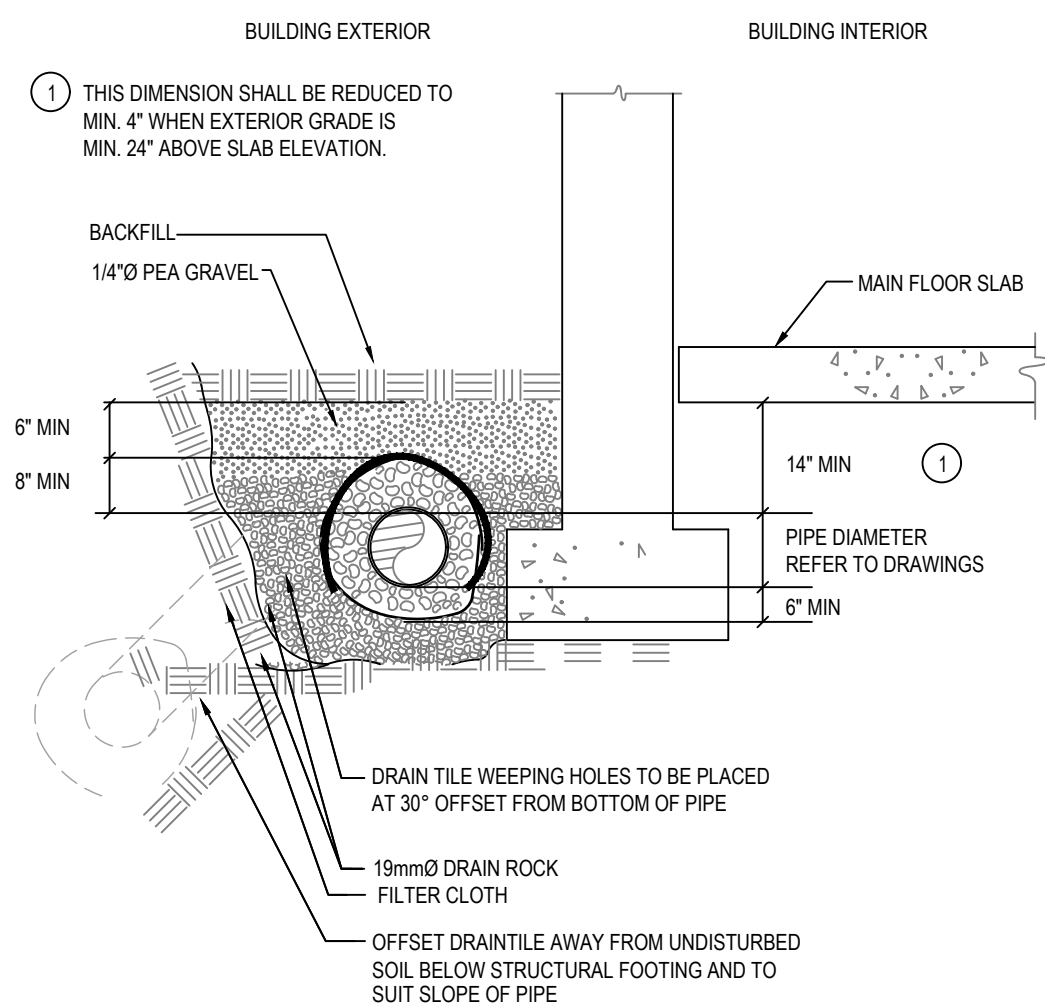
NOTE: SEISMIC RESTRAINTS AS PER SPECIFICATIONS



7 SUPPLY AIR DIFFUSER DETAIL
M06 N.T.S.



8 GOOSE NECK DETAIL
M06 N.T.S.



9 PERIMETER DRAIN TILE
M06 N.T.S.

MOTOR LIST																		
ABBREVIATIONS:			STARTERS:			PILOT DEVICES:												
M=Mechanical DIV 15			VSD=Variable speed drive			F=Float Switch												
E=Electrical DIV 16			MG=Magnetic starter (HOA)			T=Thermostat												
B.A.S. = Building Automation System			MN=Manual starter			P=Pressure Switch												
C.C.F.=Firefighters Central Control Facility			INT=Integral Starter			C=Time Clock												
EMERG. PWR.=Emergency Power						I=Interlock												
						S=Manual Switch												
						ET=Electronic Thermostat												
						FA=Fire Alarm												
						O=Other												
						GS= Gas Sensor												
						B = Building Automation System												
SPECIAL INSTRUCTIONS																		
1.All starters to be magnetic H.O.A. unless otherwise specified																		
2.A terminal section shall be provided with all MCC's																		
& wired in accordance with standard detail drawing																		
UNIT No	UNIT DESCRIPTION	LOCATION or ROOM NUMBER		PH	CV	LOAD	STARTER		DISCONN		PILOT DEVICE		REMARKS					
ERV-1	Heat Recovery Unit	Preschool WR	120	1	60	MCA 9	15 MOCP 0.6 HP	Y	U	N	I	Y		U	N	I		
ERV-2	Heat Recovery Unit	Afterschool WR	120	1	60	MCA 9	15 MOCP 0.6 HP	P	P	S	R	P		P	S	R		
DH-1	Duct Heater	Preschool WR	240	1	60	3.5 kW		E	P	T	E	E		P	T	E		
DH-2	Duct Heater	Afterschool WR	240	1	60	3.5 kW		L	A	D	L	A		D	L	A	D	
								I	L	I	L	I		L	I	L		
								D	E	L	E	L		E	L	E		
								E	E	D	E	D		E				
								D	D									
HWT-1	Domestic Hot Water Tank	Mechanical	120	1	60	5 A												
HWRP-1	Hot Water Recirc Pump	Mechanical Room	120	1	60	1/6 HP	2.15 A	INT	M	M	E	E		E	E	E		
EF-1	Exhaust Fan	Infant WR	120	1	60	80 W		MN	E	E	E	E		E	E	E		
EF-2	Exhaust Fan	Staff WR	120	1	60	80 W		MN	E	E	E	E		E	E	E		
EF-3	Exhaust Fan	Accessible WR	120	1	60	80 W		MN	E	E	E	E		E	E	E		
EF-4	Exhaust Fan	Electrical Room	120	1	60	80 W		MN	E	E	E	E		E	E	E		
EF-5	Exhaust Fan	Janitor Room	120	1	60	80 W		MN	E	E	E	E		E	E	E		
RH-1	Rangefood	Kitchen	120	1	60	1.9 A												
FUR-1	Furnace	Mechanical	120	1	60	FLA 10.9	MOCP 15	INT	M	E	E	E		E	T	M	E	E
FUR-2	Furnace	Mechanical	120	1	60	FLA 8.4	MOCP 15	INT	M	E	E	E		E	T	M	E	E
HP-1	Heat Pump Unit	Outside on Pad	240	1	60	MCA 25.8, MOCP 40, FLA 21.1		INT	M	M	E	E		E	T	M	E	E
HP-2	Heat Pump Unit	Outside on Pad	240	1	60	MCA 20.9, MOCP 35, FLA 17.3		INT	M	M	E	E		E	T	M	E	E
SP-1	Sump Pump	Mechanical Room	120	1	60	1/2 HP	8.0 A	INT	M	M	E	E		E	F	M	E	E
STP-1	Storm Sump Pump	Mechanical Room	120	1	60	1/2 HP	8.0 A	INT	M	M	E	E		E	F	M	E	E
FF-1"	Force Flow Heater	SE Entrance Ceiling				4 kW												
FF-2"	Force Flow Heater	SW Entrance Ceiling				4 kW												
FF-3"	Force Flow Heater	NE Entrance Ceiling				4 kW												
FF-4"	Force Flow Heater	NW Entrance Ceiling				4 kW												
Additional Instructions:																		
* Equipment supplied by Div. 16.																		