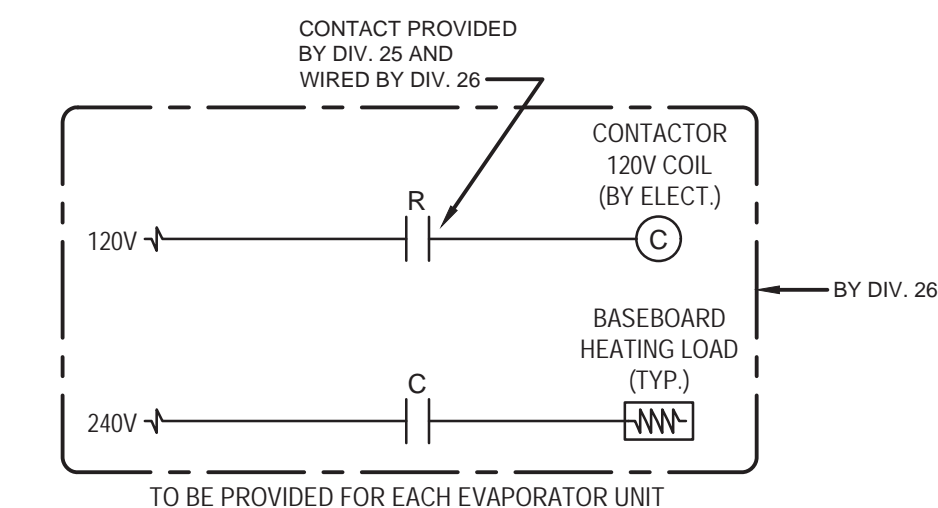
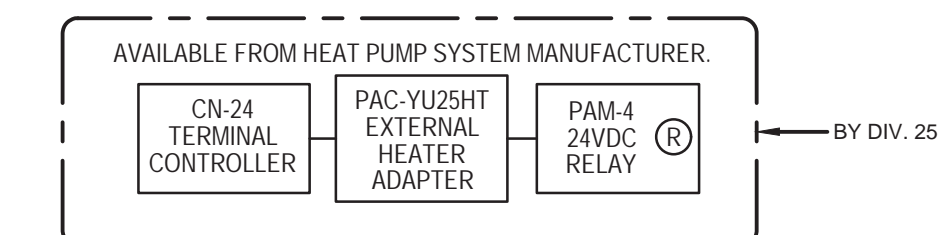




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HVAC SEQUENCE OF OPERATIONS

ROOM TEMPERATURE CONTROL:

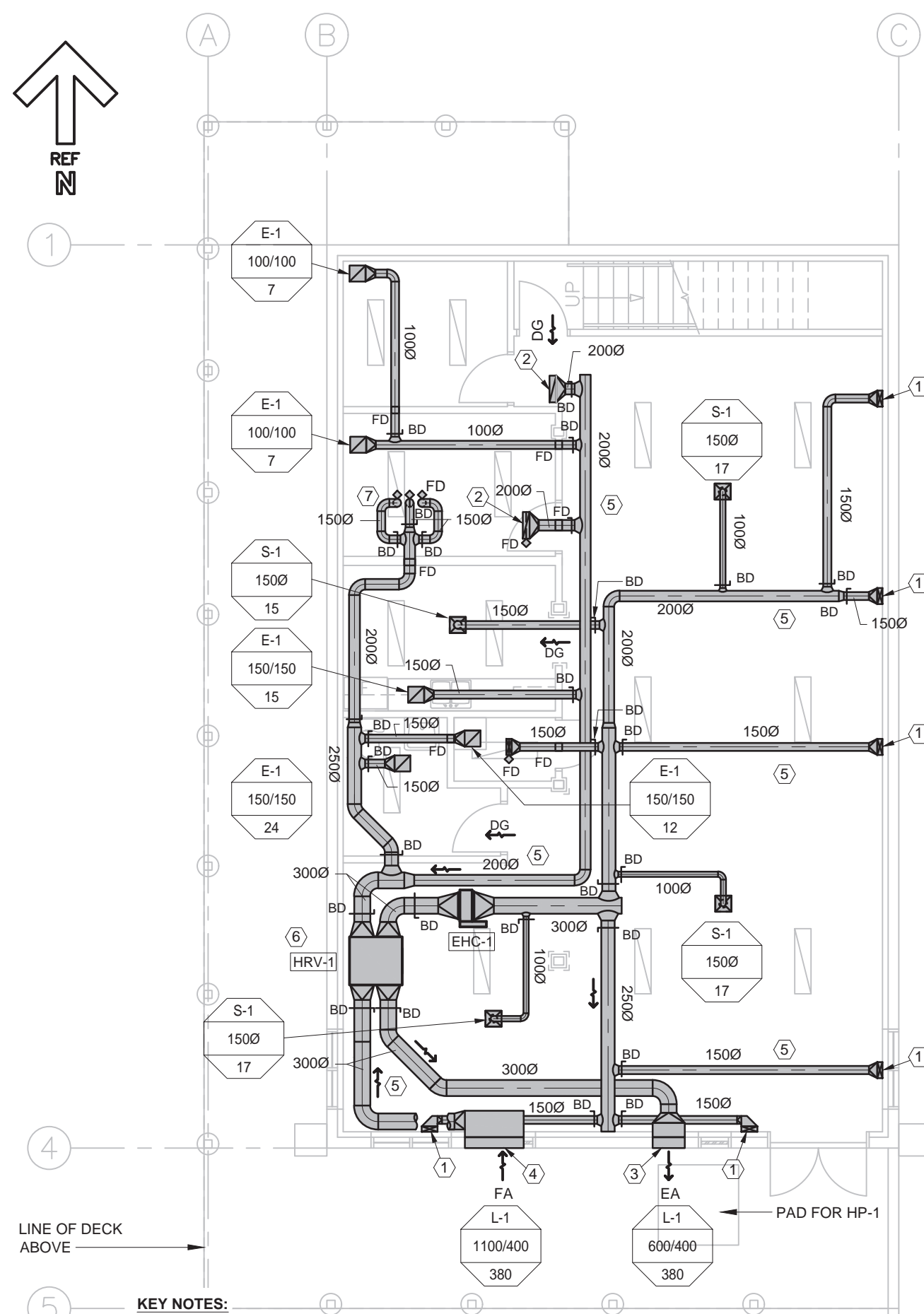
1. REFER TO SCHEMATIC ABOVE.
 2. CONTROLLERS IN EACH SPACE SHALL TAKE AN INPUT SIGNAL FROM A COMMON OUTDOOR AIR TEMPERATURE SENSOR (OAT).
 3. CONTROLLER SHALL BE C/W A USER-ADJUSTABLE SPACE TEMPERATURE SETPOINT.
 4. CONTROLLER SHALL BE PROGRAMMABLE TO ALLOW UNOCCUPIED SPACE TEMPERATURE SETBACK.
- ON A CALL FOR HEATING:
1. HEAT PUMP COMPRESSOR SHALL BE DE-ENERGIZED.
 2. ELECTRIC BASE BOARD HEATERS SHALL BE ENABLED TO MEET SETPOINT.

- IF OAT > -14°C:
1. HEAT PUMP SHALL BE ENERGIZED.
 2. IF TEMPERATURE OF ANY ONE OF THE FOUR SPACES SERVED BY THE HEAT PUMP SYSTEM DROPS TO 2°C BELOW SETPOINT:
- 2.1. HEAT PUMP SHALL BE DE-ENERGIZED
 - 2.2. ELECTRIC BASE BOARD HEATERS SHALL BE ENERGIZED TO MAINTAIN SPACE TEMPERATURE.

- ON A CALL FOR COOLING:
- IF OAT > 0°C:
1. HEAT PUMP SHALL BE ENERGIZED.

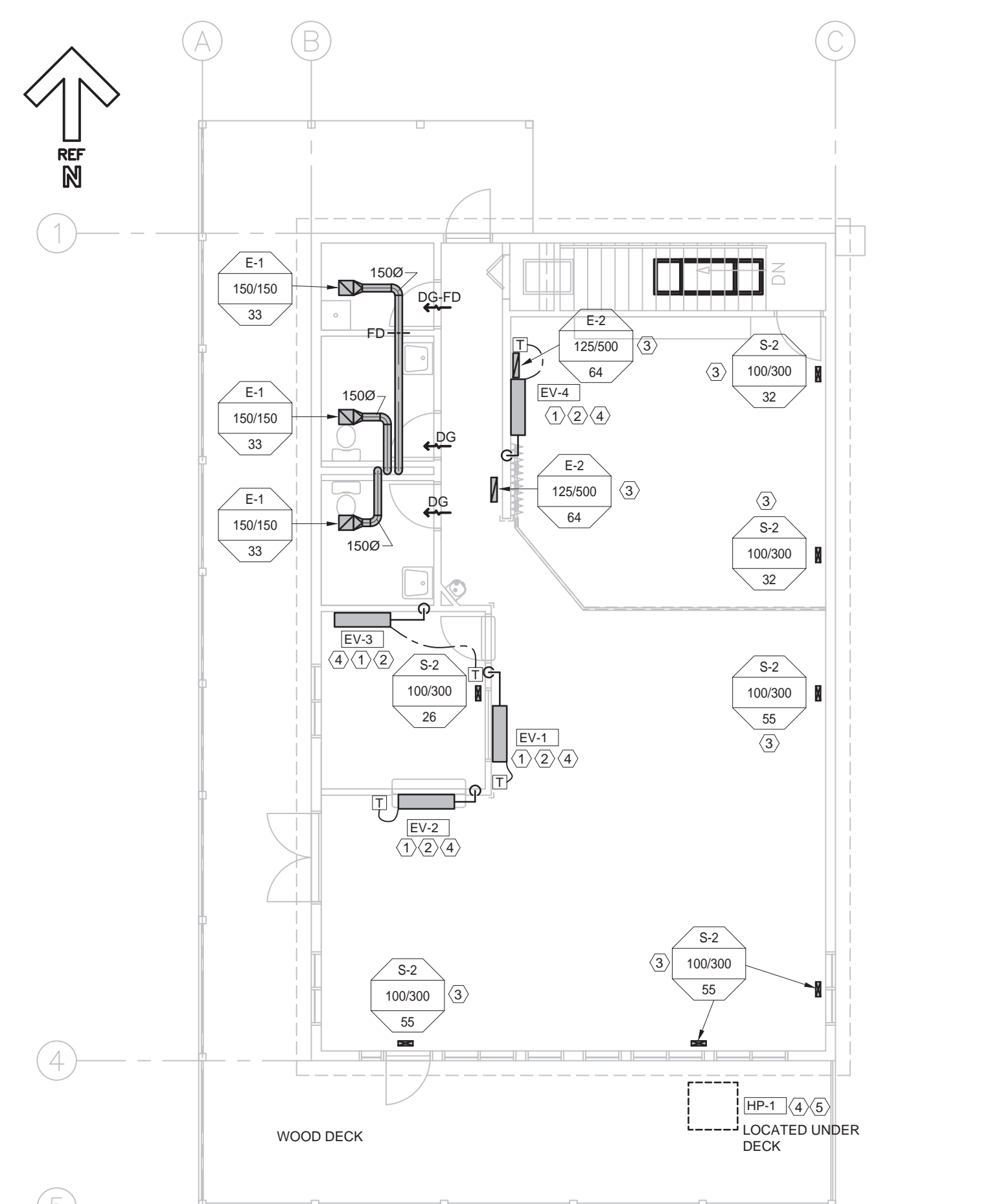
1 HEAT PUMP-ROOM CONTROL SCHEMATIC

M100



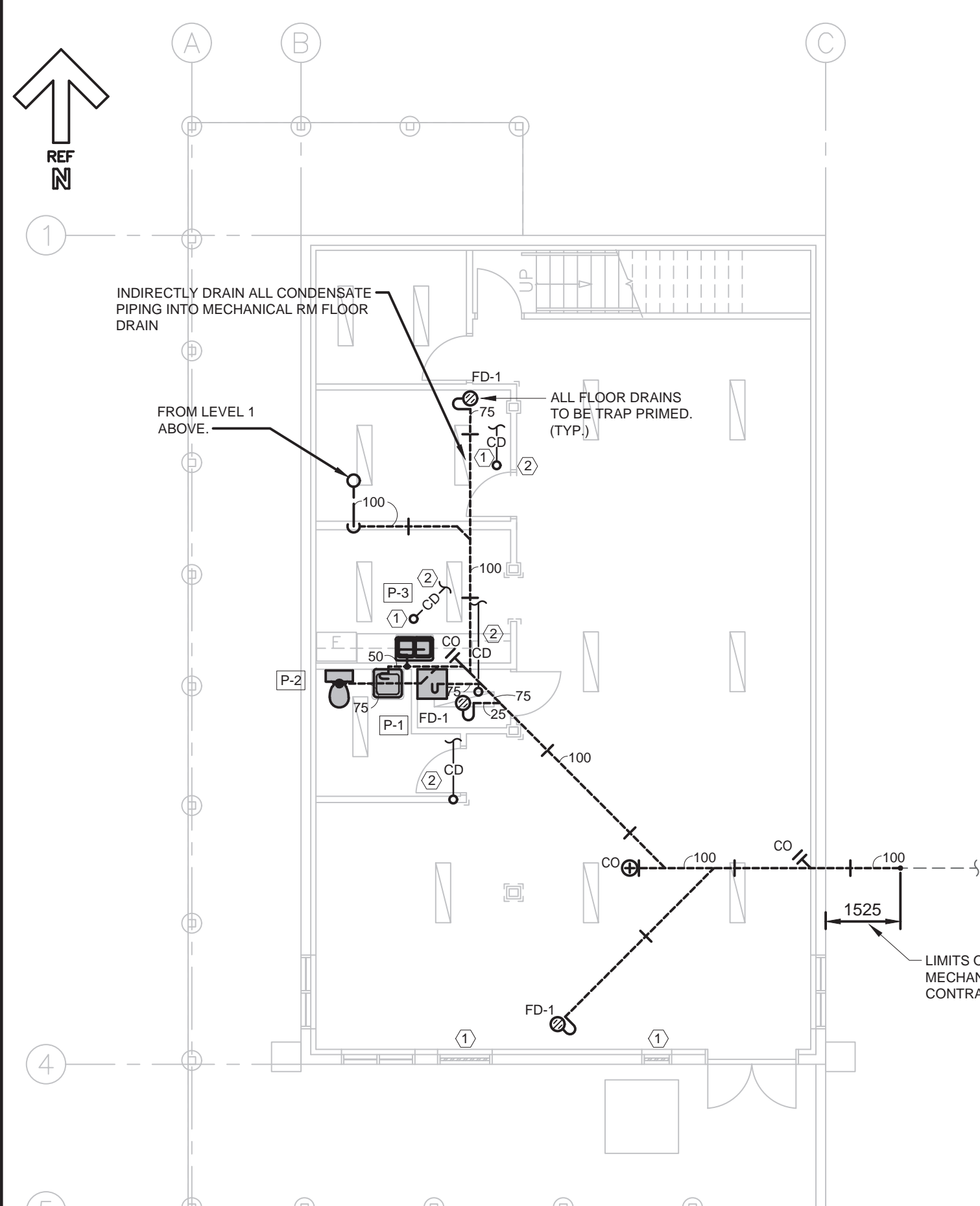
7 BASEMENT FLOOR PLAN - HVAC

M100



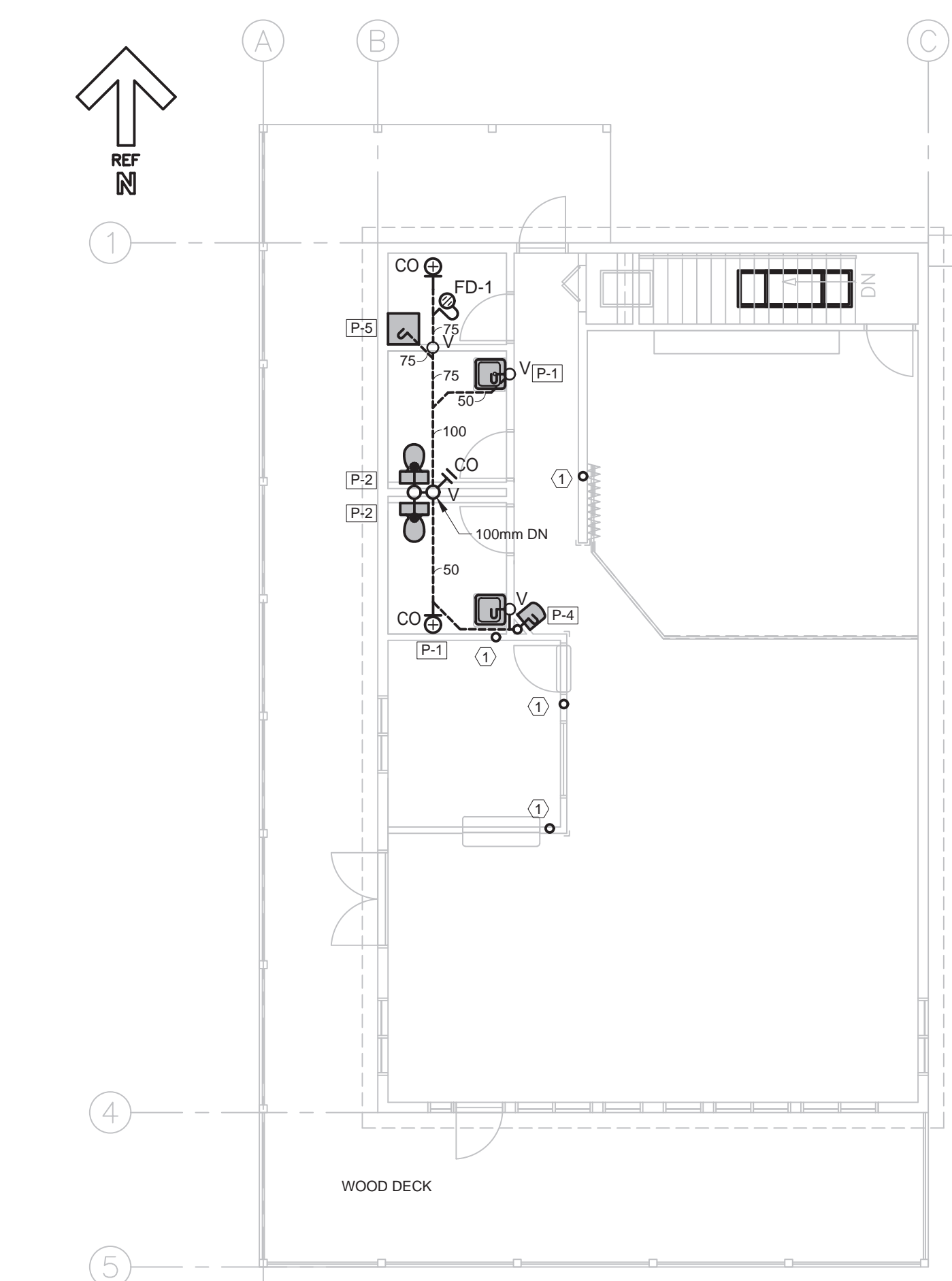
5 LEVEL 1 FLOOR PLAN - HVAC

M100



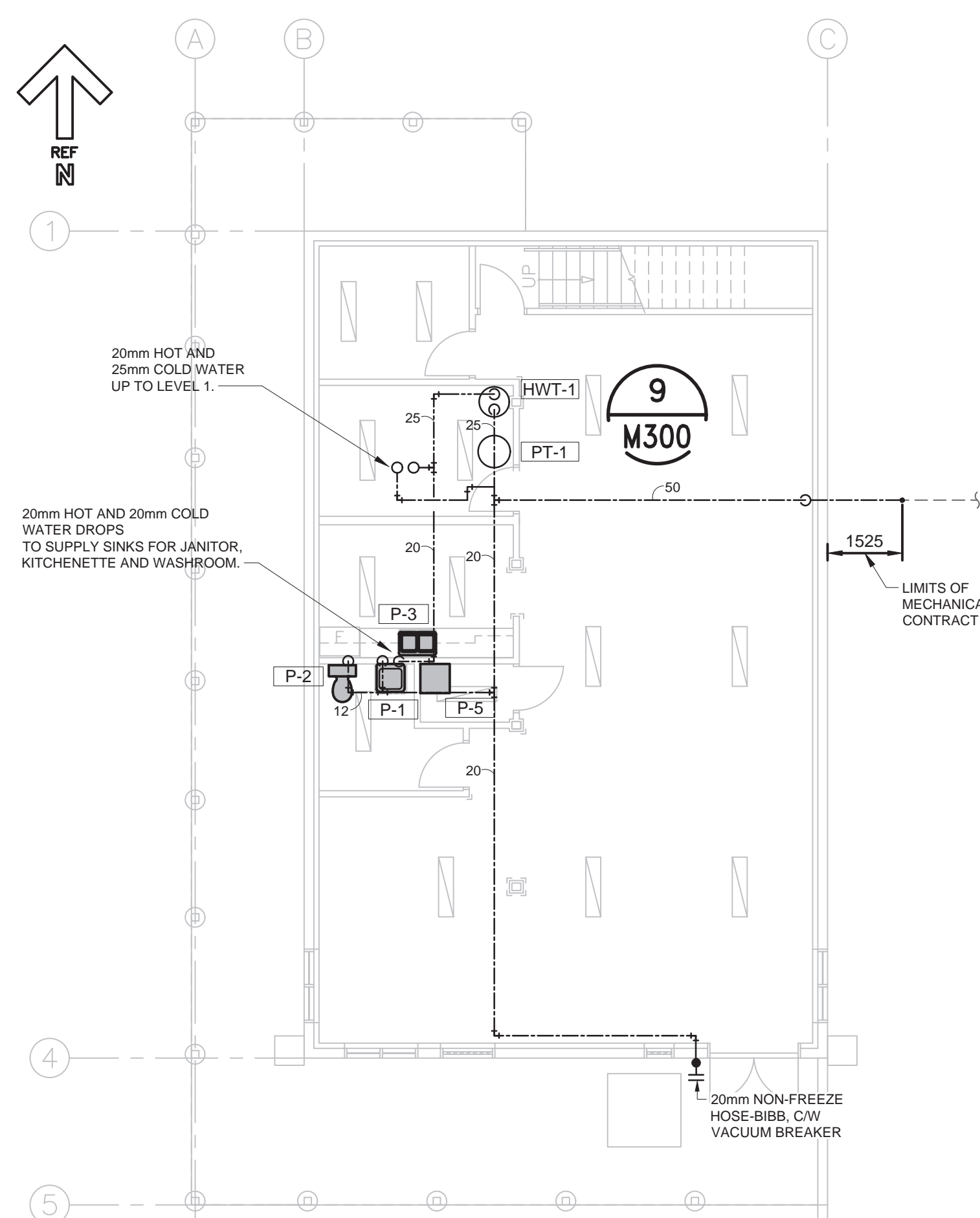
3 BASEMENT FLOOR PLAN - SANITARY AND VENTING

M100



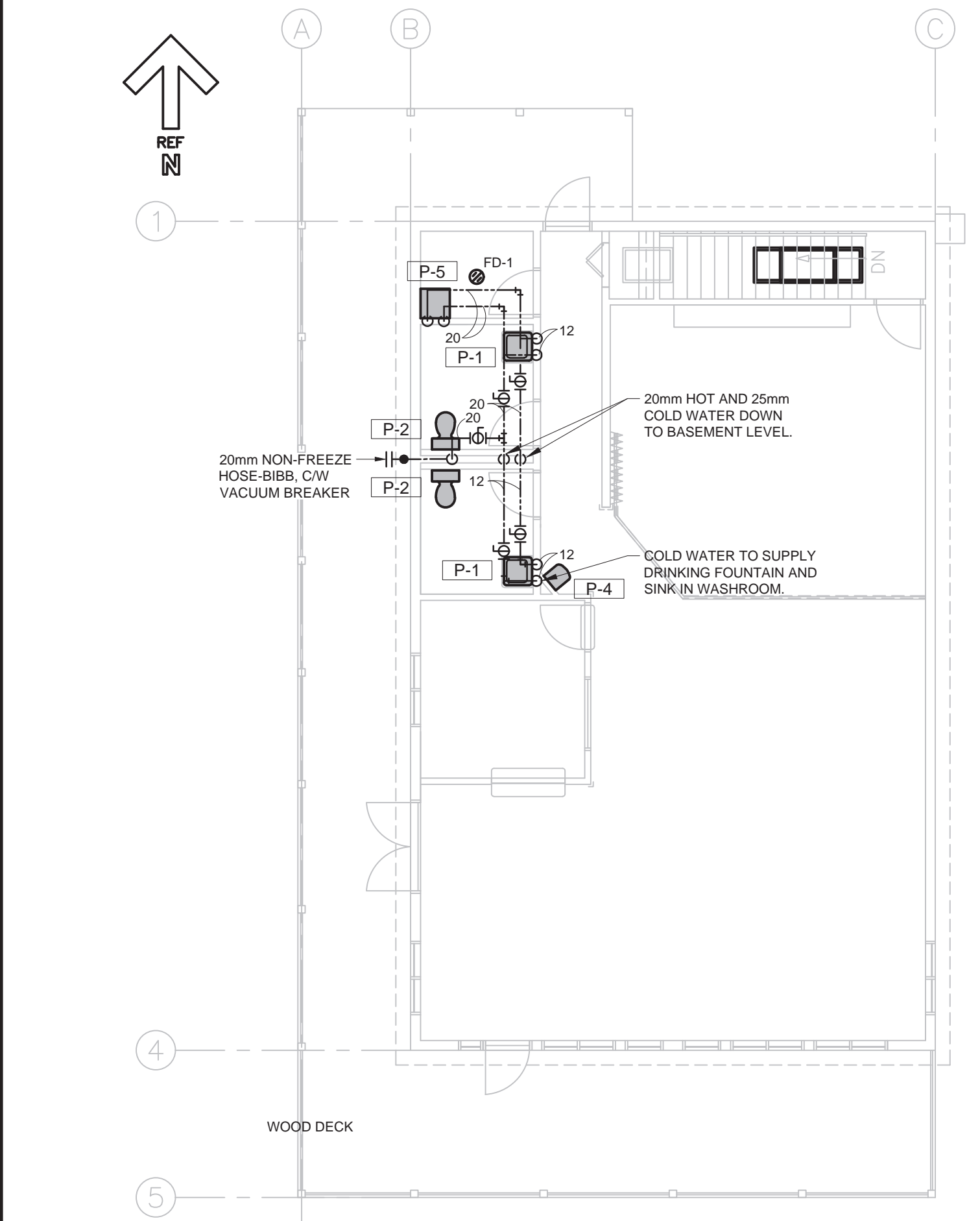
8 LEVEL 1 FLOOR PLAN - SANITARY AND VENTING

M100



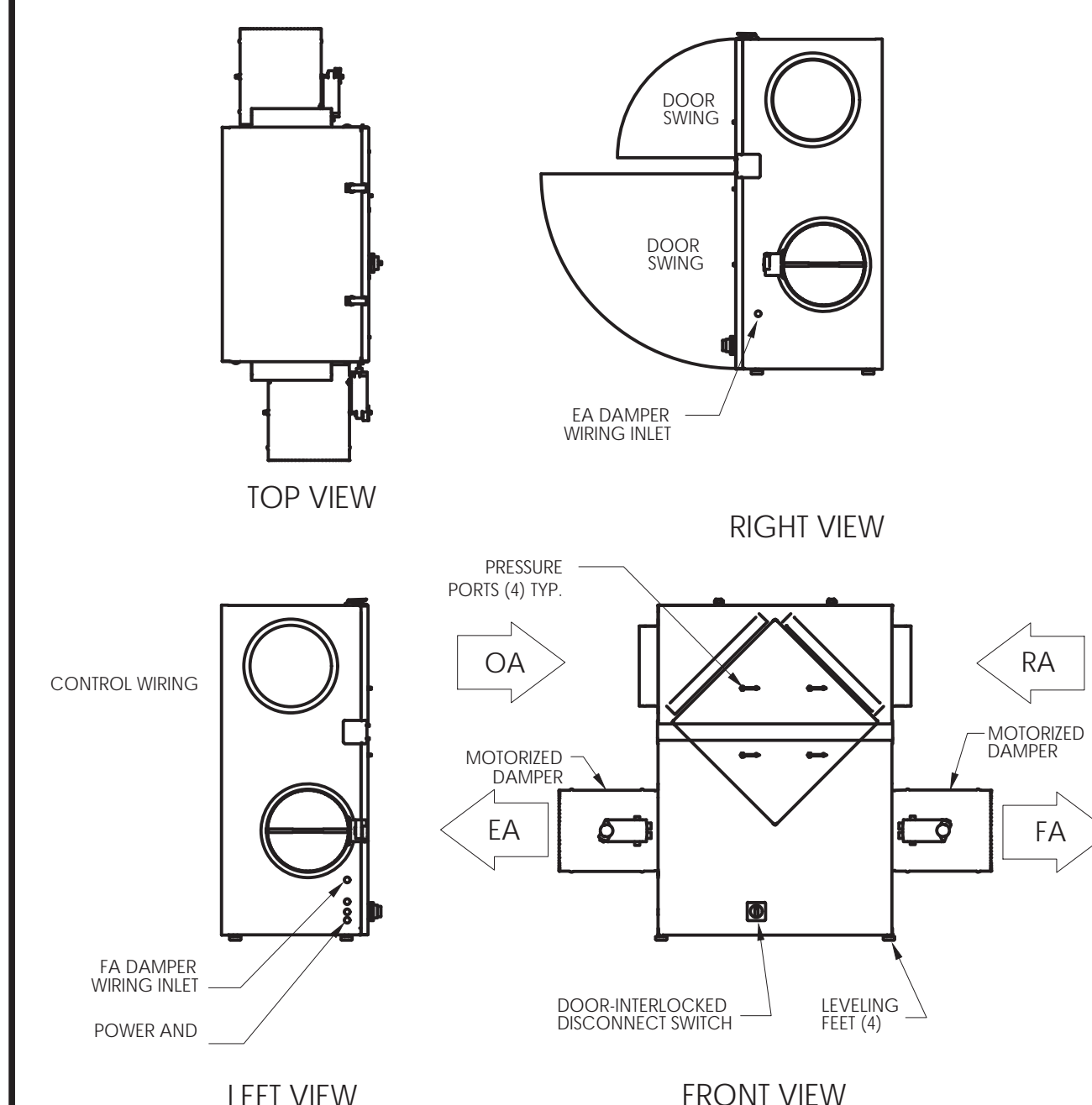
6 BASEMENT FLOOR PLAN - DOMESTIC WATER

M100



4 LEVEL 1 FLOOR PLAN - DOMESTIC WATER

M100



HVAC SEQUENCE OF OPERATIONS

- OCCUPIED TIMES:
1. HRV-1 SHALL BE OPERATIONAL AT ALL OCCUPIED TIMES (BASED ON SCHEDULE THROUGH HRV-1 ONBOARD CONTROLLER).
- IF OAT < 15°C:
1. ELECTRIC DUCT HEATER TO MODULATE TO DELIVER 22°C SUPPLY AIR TEMPERATURE.
- UNOCCUPIED TIMES:
1. HRV-1 SHALL BE DE-ENERGIZED DURING UNOCCUPIED TIMES
 2. OUTDOOR AIR AND EXHAUST AIR DAMPERS TO CLOSE. DAMPERS SHALL BE CONTROLLED BY HRV-1 ONBOARD CONTROLLER.

2 HRV-1 UNIT LAYOUT

M-100

N.T.S



0	ISSUED FOR TENDER	MAY 12 2017
revisions		date
project		project

INTERPRETIVE CENTER MARY'S POINT, NB

MECHANICAL FLOOR PLANS

designed	C. JESSEN	conçu
date	NOV. 2016	
drawn	B.C. ADAMS	dessiné
date	NOV. 2016	
approved		approuvé
date		
Tender		Soumission
PWGSC Project Manager	Administrateur de projets TPSGC	
project number	R.076495.001	no. du projet
drawing no.	M200	no. du dessin