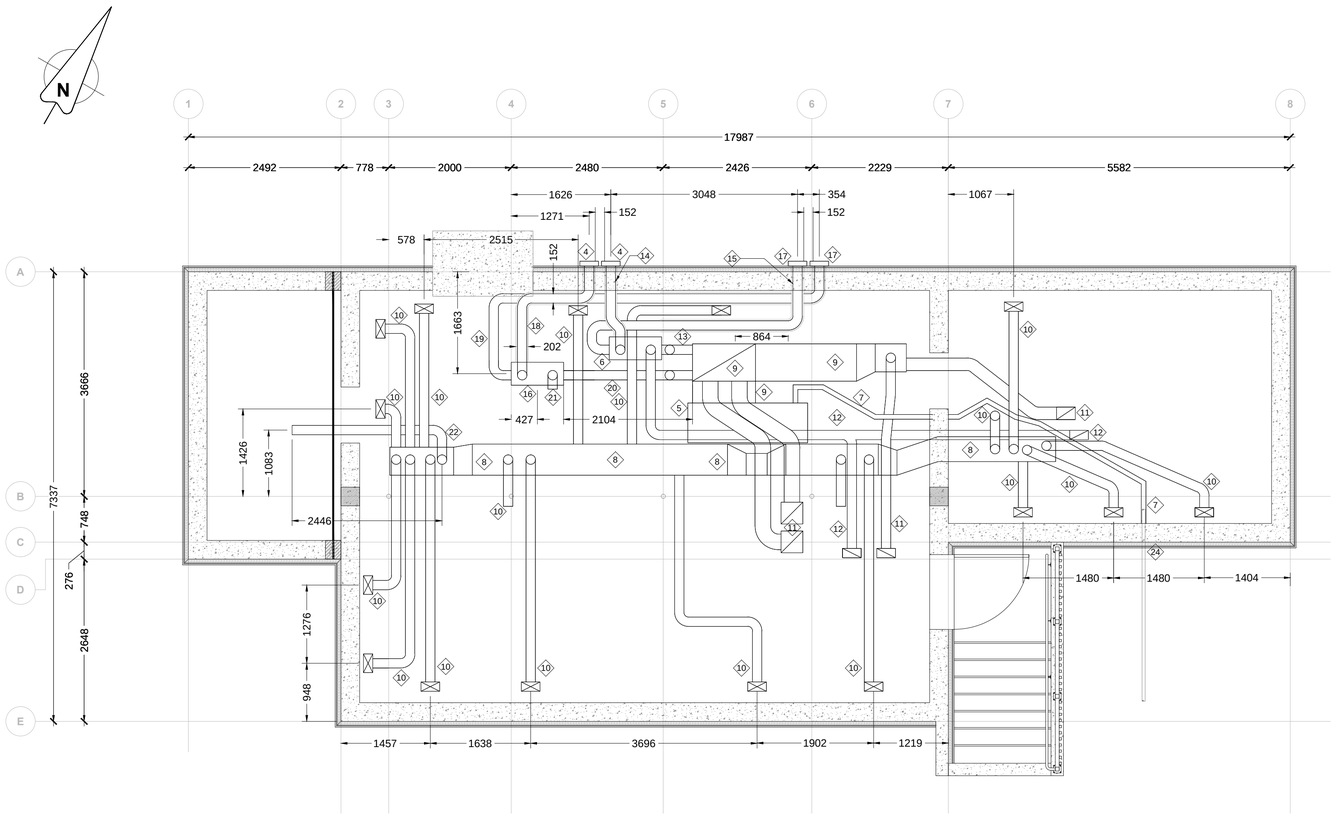
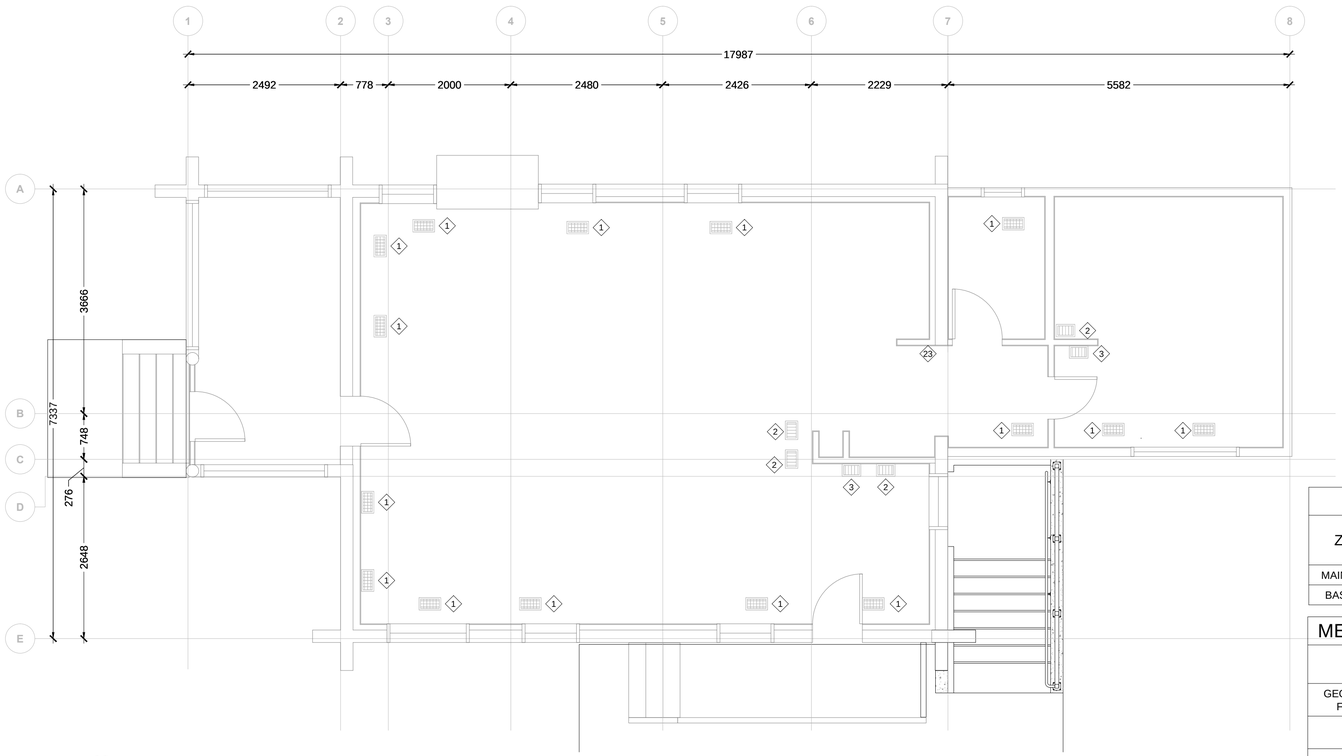


1 PROPOSED HVAC BASEMENT FLOOR PLAN

M1 1:50



2 PROPOSED HVAC MAIN FLOOR PLAN

M1 1:50

GENERAL DEMOLITION NOTES - HVAC:

1. ALL ITEMS SHOWN ARE BASED UPON INFORMATION GATHERED DURING SITE VISITS AND ARE SHOWN THE BEST OF OUR KNOWLEDGE.
2. DIMENSIONS ARE IN MM AND ARE TAKEN FROM GRID LINES AND FACE OF CONCRETE FOUNDATION.
3. GRID LINES ARE COINCIDENT WITH EXTERIOR FACE OF NEW CONCRETE FOUNDATION AND CENTERLINE OF EXISTING TELEPOST COLUMNS.
4. REFER TO STRUCTURAL, ARCHITECTURAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL NOTES AND DETAILS.

KEYNOTES:

1. RE-INSTALL EXISTING FLOOR SUPPLY GRILLE .
2. RE-INSTALL EXISTING RETURN GRILLE.
3. RE-INSTALL EXISTING FLOOR HRV RETURN GRILLE.
4. INSTALL NEW HRV FRESH AIR INTAKE LOUVER IN NEW ⌀200MM WALL OPENING. SEE ARCHITECTURAL DRAWINGS FOR COLOR.
5. RE-INSTALL EXISTING GEOTHERMAL FURNACE.
6. RE-INSTALL EXISTING LIFEBREATH HRV .
7. PROVIDE ADDITIONAL ANTIFREEZE FLUID IN EXISTING GEOTHERMAL GROUND LOOP TO REPLACE FLUID LOST DURING DEMOLITION WORK. ANTI FREEZE FLUID AS SPECIFIED BY GEOTHERMAL MANUFACTURER'S INSTRUCTIONS. RECONNECT GEOTHERMAL GROUND LOOPS TO FURNACE AND EXISTING THERMAL EXPANSION TANK TO EXISTING GEO THERMAL FURNACE.
8. RE -CONNECT MAIN SUPPLY PLENUM TO THE FURNACE.
9. RE -CONNECT MAIN EXHAUST PLENUM TO THE FURNACE.
10. RE-CONNECT EXISTING ⌀150MM BRANCH SUPPLY DUCT TO THE MAIN DUCT.
11. RE-CONNECT EXISTING BRANCH RETURN DUCT TO THE MAIN DUCT.
12. RE-CONNECT EXISTING HRV RETURN DUCT TO HRV.
13. RE-CONNECT EXISTING HRV SUPPLY AIR DUCT TO THE HRV AND TO THE RETURN DUCT OF THE FURNACE.
14. RE-CONNECT EXISTING FRESH AIR DUCT TO HRV FROM THE NEW WALL OPENING. PROVIDE 25MM INSULATION.
15. RE-CONNECT EXISTING EXHAUST AIR DUCT TO HRV TO THE NEW OPENING IN THE WALL WITH EXTENSION NEW DUCT. INSULATE FULL LENGTH OF DUCT WITH 25MM INSULATION.
16. NEW HRV TO BE INSTALLED AS PER MANUFACTURERS INSTRUCTIONS AND COORDINATE THE INSTALLATION TO FIT WITHIN THE SPACE ALLOWED BY ARCHITECTURAL AND STRUCTURAL CONDITIONS.
17. INSTALL NEW HRV EXHAUST AIR OUTLET LOUVER IN NEW ⌀200MM WALL OPENING.
18. NEW ⌀150 MM HRV FRESH AIR DUCT. INSULATE FULL LENGTH OF DUCT WITH 25MM INSULATION.
19. NEW ⌀150 MM HRV EXHAUST AIR DUCT. INSULATE FULL LENGTH OF DUCT WITH 25MM INSULATION.
20. NEW ⌀150 MM HRV SUPPLY AIR DUCT TO CONNECT TO THE RETURN DUCT OF THE EXISTING GEO THERMAL FURNACE.
21. NEW ⌀150 MM HRV RETURN OPENING.
22. NEW ⌀150MM BRANCH SUPPLY DUCT FROM THE MAIN DUCT.
23. INSTALL NEW HRV CONTROLLER NEAR EXISTING THERMOSTAT AND EXISTING HRV CONTROLLER.
24. NEW OPENING FOR EXISTING GEOTHERMAL GROUND LOOP PIPING

LINE LEGEND	
SYMBOL	DESCRIPTION
———	NEW HVAC CONSTRUCTION

REQUIRED VENTILATION- ASHRAE 62.1-2010				
ZONE	AREA (SQ .M)	PEOPLE	OUT DOOR AIR REQUIRED (L/S)	SUPPLIED OUT DOOR AIR (L/S)
MAIN FLOOR	99.8	10	102	103
BASEMENT	59.3	-	18	29

HVAC LEGEND	
ITEM	DESCRIPTION
	SUPPLY AIR DUCT
	RETURN AIR DUCT
	FLOOR SUPPLY GRILLE
	FLOOR RETURN GRILLE

MECHANICAL EQUIPMENT SCHEDULE		
ITEM	QTY.	MODEL #
GEO THERMAL FURNACE	1	ENVISION NSH048A101CSR (EXISTING)
HRV-1	1	LIFEBREATH 155 MAX, 69 L/S@ 0.3 IN.WC (EXISTING)
HRV -2 (NEW)	1	155MAX HRV, 69 L/S@ 0.3 IN.WC. CSA CERTIFIED.

SAMSON ARCHITECTURE I ENGINEERING

Samson Engineering Inc.
162 - 10th Street,
Brandon, Manitoba R7A 4E6
Phone: (204) 727-0747
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Public Works and Government Services Canada
Travaux publics et Services gouvernementaux Canada
REAL PROPERTY SERVICES
Western Region
SERVICES IMMOBILIERS
Région de l'ouest

APEGM
Certificate of Authorization
Samson Engineering Inc.
No. 3050 Expiry: April 30, 2018

PROVINCE OF MANITOBA
S. JACOB
Member
41422
REGISTERED PROFESSIONAL ENGINEER

Revision	Description	Date
5		
4		
3		
2		
1	ISSUED FOR CONSTRUCTION	2018/04/10
0	ISSUED FOR REVIEW	2018/01/31

Client: client

PARKS CANADA AGENCY

135 WASAGAMING DR.

Project title / Projet:
WASAGAMING, MB
154 COLUMBINE ST.

FOUNDATION REPLACEMENT

Designed by / Conçu par: **DH**
Drawn by / Dessiné par: **DH**
Approved by / Approuvé par: **SJ**
PWGSC Project Manager / Administrateur de Projets TPSGC

Drawing title / Titre du dessin:
HVAC
BASEMENT & MAIN FLOOR PLAN

Project no./No. du projet	Drawing no./No. du dessin	Revision no.
PRO1272	M1 OF 4	0