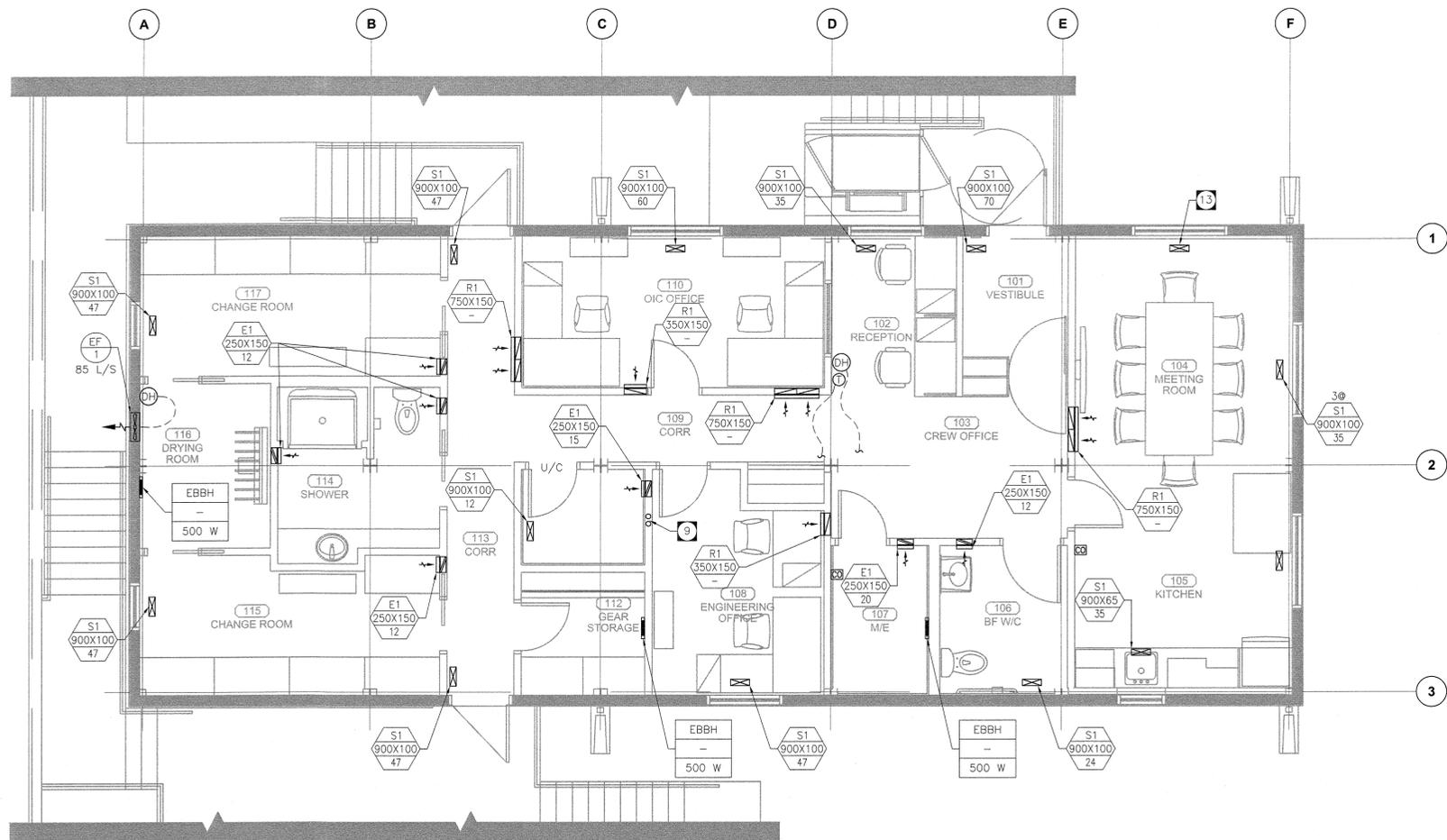


**CRAWLSPACE PLAN**  
SCALE: 1:50



**MAIN FLOOR PLAN**  
SCALE: 1:50

**GENERAL NOTES:**

- MECHANICAL CONTRACTOR MUST EXAMINE THE SITE & EXISTING CONDITIONS AFFECTING THE PROJECT. EXAMINE THE COMPLETE SET OF CONTRACT DOCUMENTS TO ENSURE THAT THE WORK CAN BE CARRIED OUT WITHOUT SIGNIFICANT CHANGES TO THE INTENT OF THE DOCUMENTS. NO FUTURE ALLOWANCE WILL BE MADE FOR CHANGES UNLESS THE CONTRACT ADMINISTRATOR HAS BEEN NOTIFIED IN WRITING OF ANY DISCREPANCIES OR INTERFERENCES, PRIOR TO THE CLOSE OF TENDERS. NO ALLOWANCE WILL BE MADE FOR ITEMS THAT SHOULD HAVE BEEN NOTED DURING PRE-BID SITE INSPECTION.
- THE LOCATION ROUTING & ELEVATION OF ALL NEW AND EXISTING SERVICES & UTILITIES AS SHOWN ON THE DRAWING ARE TO BE CONSIDERED AS APPROXIMATIONS ONLY. VERIFY EXACT LOCATIONS, ROUTINGS & ELEVATIONS OF ALL SERVICES PRIOR TO COMMENCING WORK, & ASSUME RESPONSIBILITY FOR ANY DAMAGE TO EXISTING SERVICES & UTILITIES.
- MECHANICAL CONTRACTOR SHALL VERIFY EXACT LOCATIONS, CONNECTIONS, SIZES, INVERTS, ETC. PRIOR TO BID CLOSE AND COMMENCEMENT OF WORK.
- MECHANICAL CONTRACTOR SHALL REFER TO ARCHITECTURAL, STRUCTURAL, ELECTRICAL DRAWINGS, EQUIPMENT SUPPLIER SHOP DRAWINGS, ETC. FOR EXACT LOCATIONS OF ALL FIXTURES, EQUIPMENT, ETC.
- ALL PLUMBING INSTALLATIONS, ETC. SHALL BE PERFORMED IN ACCORDANCE WITH ALL CODES, REGULATIONS & AUTHORITIES HAVING JURISDICTION.
- COORDINATE PLUMBING WITH DUCT RUNS, HYDRONIC PIPING, & ALL OTHER TRADES.
- HATCHED DUCTWORK INDICATES DUCTWORK THAT IS TO BE ACOUSTICALLY LINED. ALL DUCT DIMENSIONS DENOTE INTERNAL "OPEN" AREA ON THE DUCT.
- ALL DUCTWORK PENETRATING THE EXTERIOR WALLS & ROOF SHALL BE INSULATED FOR A MINIMUM DISTANCE OF 10'-0" (3048MM) BACK FROM THE BUILDING PENETRATION WITH 1" (25MM) THICK KNAUF FIBERGLAS DUCT WRAP INSULATION COMPLETE WITH FOIL-SKRIM-KRAFT (FSK) COVERING.
- COORDINATE THE EXACT LOCATIONS OF EQUIPMENT, AND DUCT OPENINGS WITH THE STRUCTURAL CONSULTANT.

**DRAWING NOTES:**

- NEW GAS FURNACE TO BE MOUNTED IN HORIZONTAL POSITION AND SUSPENDED FROM STRUCTURE C/W VIBRATION ISOLATORS. PROVIDE FLEXIBLE CONNECTION AT S/A AND R/A PLENUM CONNECTIONS TO UNIT. PROVIDE ACOUSTIC INSULATION 10'-0" (3048MM) BACK FROM UNIT ON BOTH SUPPLY & RETURN DUCT PLENUMS WHERE APPLICABLE. CONNECT TO GAS LINE AS PER CODE. PROVIDE CONDENSATE DRAIN TO NEAREST SUITABLE DRAIN LINE. PROVIDE CONDENSATE PUMP IF REQUIRED.
- 175MM F/A TO R/A DUCT. FULLY INSULATE ALL F/A DUCTWORK AS PER MECHANICAL SPECIFICATIONS. PROVIDE DAMPER AND BALANCE TO 90 L/S.
- ELECTRIC UNIT HEATER TO BE SUPPLIED AND INSTALLED BY ELECTRICAL DIVISION WITH HEATING CAPACITY SHOWN. COORDINATE INSTALLATION WITH ELECTRICAL.
- OPEN ENDED S/A DUCT C/W BALANCING DAMPER. BALANCE TO 24 L/S.
- OPEN ENDED E/A DUCT C/W BALANCING DAMPER. BALANCE TO 24 L/S.
- NEW HRV SUSPENDED FROM STRUCTURE WITH VIBRATION ISOLATORS. PROVIDE FLEXIBLE CONNECTIONS TO UNIT. THERMALLY INSULATE O/A AND E/A DUCTS BACK FROM WALL CAPS TO UNIT. REFER TO DETAIL.
- NEW UNDERGROUND GAS LINE RISER AT APPROX. THIS LOCATION. COORDINATE WITH UTILITIES AND ARCHITECTURAL.
- 50MM PVC FOR FURNACE COMBUSTION AND EXHAUST UP THROUGH MAIN FLOOR WALL CAVITY. REFER TO DRAWING NOTE #9 FOR CONTINUATION.
- 50MM PVC FOR FURNACE COMBUSTION AND EXHAUST UP FROM CRAWL SPACE TO CONCENTRIC TERMINATION ON ROOF. C/W ROOF FLASHING AND THERMAL INSULATION BACK FROM ROOF PENETRATION TO CRAWL SPACE.
- PROVIDE GAS LINE TO TANKLESS WATER HEATERS. INSTALLATION TO BE AS PER CODE AND MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- PROVIDE GAS LINE ROUGH-IN C/W VALVE AND CAP FOR FUTURE BBQ. COORDINATE WITH OWNER.
- PROVIDE GAS LINE ROUGH-IN C/W VALVE AND CAP FOR FUTURE GAS APPLIANCE. COORDINATE WITH OWNER.
- OFFSET SUPPLY AIR BOOT IN CRAWLSPACE AS REQUIRED TO LOCATE REGISTER CLOSER TO EXTERIOR WALL. TYPICAL.

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**REAL PROPERTY SERVICES**  
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Certificate of Authorization  
**Tower Engineering Group**  
No. 4156 Expiry: April 30, 2018

PROVINCE OF MANITOBA  
**J. ABIUSI**  
1/7/07/24  
REGISTERED PROFESSIONAL ENGINEER

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4	RE-ISSUED FOR CONSTRUCTION	2017/07/26
3	ISSUED FOR CONSTRUCTION	2017/07/11
2	ISSUED FOR REVIEW	2017/07/07
1	ISSUED FOR REVIEW	2017/06/30
0	Design Completion	

**FISHERIES AND OCEANS CANADA**

Project title: **GIMLI, MB 17 HARBOUR LANE**

**GIMLI SEARCH & RESCUE STATION**

Designed by: JA  
Drawn by: LK  
Approved by: JA  
Project Manager: JA  
Drawing title: **MECHANICAL HVAC LAYOUT OFFICE**

Project no./No. du projet	Drawing no./No. du dessin	Revision no.
2016-39	M2.1	0

OF 7

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