



CRAWLSPACE PLAN
SCALE: 1:100

GENERAL NOTES:

- IT IS RECOMMENDED THAT THE BIDDERS EXAMINE THE SITE & EXISTING CONDITIONS THAT AFFECT 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 ENGINEER 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-TENDER 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. THE CONTRACTOR SHALL RETAIN RESPONSIBILITY FOR ANY DAMAGE TO EXISTING SERVICES AND UTILITIES.
- ALL ASPECTS OF THE INSTALLATION MUST COMPLY WITH THE MOST STRINGENT OF THE APPLICABLE BUILDING CODES, LOCAL REGULATIONS, BY-LAWS, & BUILDING GUIDELINES.
- PROVIDE ALL LABOR, MATERIALS, & EQUIPMENT NECESSARY TO COMPLETE THE WORK SHOWN ON DRAWINGS & AS SPECIFIED HEREIN.
- COORDINATE EXACT ROUTING OF DUCTWORK WITH PIPING, SITE CONDITIONS, ALL OTHER TRADES, ETC.
- COORDINATE EXACT LOCATION OF GRILLES AND DIFFUSERS ON SITE WITH THE ELECTRICAL SUBCONTRACTOR, CONTRACTOR, ARCHITECTURAL REFLECTED CEILING PLAN, LIGHTING LAYOUT, ETC. TO ENSURE THAT THERE ARE NO CONFLICTS DURING INSTALLATION.
- PROVIDE BALANCE DAMPERS AS SHOWN AND AS REQUIRED TO ALLOW PROPER BALANCING OF THE SYSTEMS. PROVIDE OPPOSED BLADE DAMPERS WITH THE DIFFUSER AND ADJUSTABLE FROM THE DIFFUSER FACE WHEN A DUCT MOUNTED BALANCE DAMPER WOULD NOT BE ACCESSIBLE.
- AN AABC CERTIFIED BALANCE CONTRACTOR SHALL BALANCE THE SYSTEM TO PROVIDE THE INDICATED AIR FLOWS.
- ALL DUCT DIMENSIONS DENOTE INTERNAL "FREE" AREA OF THE DUCT.

- ALL DUCTWORK, UNLESS OTHERWISE NOTED, PENETRATING THE BUILDING THERMAL ENVELOPE SHALL BE INSULATED FOR A MINIMUM DISTANCE OF 10'-0" BACK FROM THE BUILDING PENETRATION. INSULATION TO BE AS SPECIFIED IN MECHANICAL SPECIFICATIONS.
- REFER TO ARCHITECTURAL DRAWINGS AND PROVIDE FIRE DAMPERS IN ALL WALLS DENOTED AS FIRE SEPARATIONS WHETHER SHOWN ON THE MECHANICAL PLANS OR NOT.
- COORDINATE THE EXACT LOCATION OF ALL MECHANICAL EQUIPMENT, DUCT OPENINGS AND DUCT LOCATIONS WITH STRUCTURAL.
- PROVIDE SINGLE THICKNESS TURNING VANES WITH A TRAILING EDGE IN ALL "SQUARE ELBOWS". REFER TO MECHANICAL DETAILS FOR CONSTRUCTION.
- PROVIDE FLEXIBLE CONNECTIONS ON THE INLET AND OUTLET OF ALL FANS AND ON THE INLET AND OUTLET OF ALL EQUIPMENT WITH FANS INSIDE.
- DIFFUSER & REGISTER TAG:

QUANTITY	?
MODEL TYPE	-
FACE SIZE	?X?
AIR CAPACITY	-
NECK SIZE	?

DRAWING NOTES:

- 550x300 E/A DUCT UP TO MAIN FLOOR TIGHT TO CORNER OF JANITOR ROOM. COORDINATE FINAL INSTALLATION W/ ARCHITECT, INTERIOR DESIGNER, & ALL OTHER DISCIPLINES.
- 450ø TRANSFER AIR DUCT DOWN TO SERVE CRAWLSPACE FROM IF-1 IN MPR STORAGE ROOM ABOVE.

TOWER PROJECT NO. : 181335

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APEGM
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Tower Engineering Group
No. 4156 Expiry: April 30, 2020

PROVINCE DE MANITOBA
CHIMKO
Member
23356
REGISTERED PROFESSIONAL ENGINEER

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The contractor is to verify dimensions and data noted herein with conditions on the site and is held responsible for reporting any discrepancy to the architects for adjustment.

Bill and Helen Norrie Library

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Winnipeg

CRAWLSPACE - HVAC LAYOUT

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