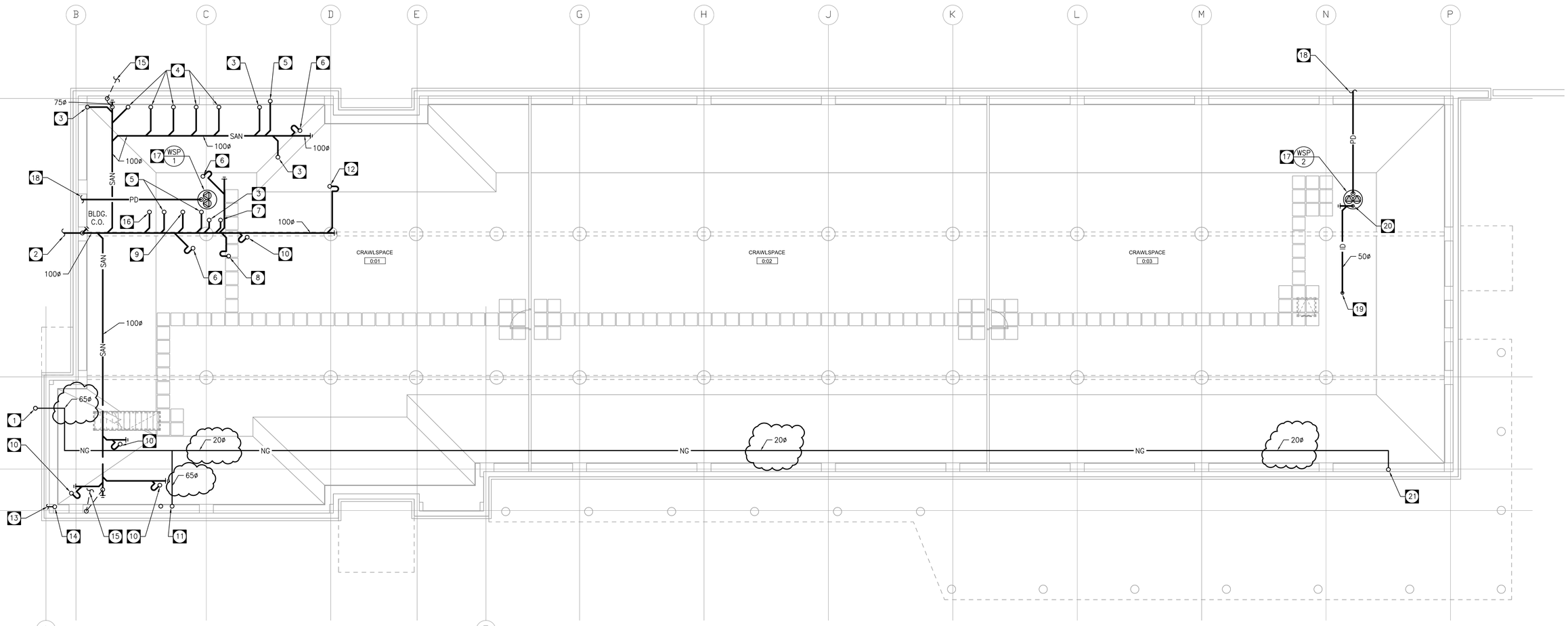

CRAWLSPACE PLAN
SCALE: 1:100

GENERAL NOTES:

1. BIDDERS 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 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 A PRE-TENDER SITE INSPECTION.
2. THE LOCATION, ROUTING & ELEVATION OF ALL NEW AND EXISTING SERVICES & UTILITIES AS SHOWN ON THE DRAWINGS ARE TO BE CONSIDERED AS APPROXIMATIONS ONLY. VERIFY EXACT LOCATIONS, ROUTINGS & ELEVATIONS OF ALL SERVICES PRIOR TO COMMENCING WORK, & ASSUME RESPONSIBILITY FOR LAYING OUT ALL WORK. THE CONTRACTOR SHALL RETAIN RESPONSIBILITY FOR ANY DAMAGE TO EXISTING SERVICES & UTILITIES.
3. MECHANICAL CONTRACTOR SHALL VERIFY EXACT LOCATIONS, CONNECTIONS, SIZES, INVERTS, ETC. PRIOR TO TENDER CLOSE AND COMMENCEMENT OF WORK.
4. FOR SANITARY PIPE 100MMø (4"ø) AND UP, THE PIPE IS TO SLOPE 1% UNLESS OTHERWISE NOTED. FOR SANITARY PIPE LESS THAN 100MMø (4"ø) THE PIPE SHALL SLOPE @ 2%. IF LOW FLOW TOILETS (LESS THAN 6L/FLUSH) ARE INSTALLED WITHIN THIS FACILITY, ALL PIPING CARRYING SANITARY WASTE FROM A TOILET TO THE BUILDING CLEAN OUT & DISCHARGE LOCATION SHALL SLOPE AT A MINIMUM 2%.
5. MECHANICAL CONTRACTOR TO ENSURE THAT CLEANOUTS ARE ACCESSIBLE.
6. MECHANICAL CONTRACTOR SHALL REFER TO ARCHITECTURAL, STRUCTURAL, ELECTRICAL DRAWINGS, EQUIPMENT SUPPLIER SHOP DRAWINGS, ETC. FOR EXACT LOCATIONS OF ALL FIXTURES, EQUIPMENT, ETC.
7. ALL PLUMBING INSTALLATIONS, ETC. SHALL BE PERFORMED IN ACCORDANCE WITH ALL CODES, REGULATIONS & AUTHORITIES HAVING JURISDICTION.
8. ALL VENT PIPING TO BE INSTALLED AS PER CODE.
9. SHUTOFF VALVES & PARTITION STOPS TO BE INSTALLED ON ALL LINES SERVING FIXTURES & EQUIPMENT.
10. MECHANICAL CONTRACTOR TO PROVIDE 'ROUGH-IN' FOR OWNER SUPPLIED EQUIPMENT. FINAL CONNECTION TO BE BY OWNER, UNLESS NOTED OTHERWISE.
11. THE DRAWINGS INDICATE APPROXIMATE LOCATION OF SOME EXISTING MECHANICAL SERVICES ALLOWED FOR ALL NECESSARY RELOCATION OF SERVICES TO ACCOMMODATE THE NEW WORK.
12. COORDINATE PLUMBING WITH DUCT RUNS, HYDRONIC PIPING, & ALL OTHER TRADES.
13. PROVIDE ISOLATION VALVES AT BASE OF EACH RISER & AT EACH FIXTURE.
14. DOMESTIC WATER RUN OUTS SHALL BE 13mm (1/2") UNLESS NOTED OTHERWISE.
15. THE MECHANICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL REQUIRED TRAP PRIMERS, AS PER CODE.

DRAWING NOTES:

1. 65ø NATURAL GAS LINE DOWN FROM GAS METER AT GRADE.
2. MAIN SAN PIPE TO SITE WASTE WATER SEWER SERVICE LINE. REFER TO SITE PLAN & CIVIL FOR CONTINUATION.
3. 75ø SAN PIPE DROP FROM WC-2 AT MAIN FLOOR WASHROOM.
4. 75ø SAN PIPE DROP FROM WC-1 AT MAIN FLOOR WASHROOM.
5. 38ø SAN PIPE DROP FROM LAV-1 AT MAIN FLOOR WASHROOM.
6. 75ø SAN PIPE DROP FROM FD-1 AT MAIN FLOOR ALL OTHER TRADES.
7. 50ø SAN PIPE DROP FROM SK-2 AT MAIN FLOOR JANITOR ROOM.
8. 38ø SAN PIPE DROP FROM SH-1 AT MAIN FLOOR STAFF UTR.
9. 38ø SAN PIPE DROP FROM MAIN FLOOR LAV-1 AT WASHROOM & LAV-2 AT STAFF UTR.
10. 100ø SAN PIPE DROP FROM FD-2 AT MAIN FLOOR MECHANICAL ROOM & JANITOR ROOM.
11. 65ø NATURAL GAS LINE UP TO MECHANICAL ROOM TO SERVE BOILERS B-1 & B-2.
12. 50ø SAN PIPE DROP FROM DF-1 AT MAIN FLOOR DRINKING FOUNTAIN AREA.
13. INCOMING MAIN DCW. REFER TO SITE PLAN FOR CONTINUATION. INCOMING MAIN DCW FROM SITE WATER MAIN SERVICE LINE. REFER TO SITE PLAN & CIVIL FOR CONTINUATION.
14. INCOMING MAIN DCW UP TO WATER METER AT MAIN FLOOR MECHANICAL ROOM.
15. PLUMBING VENT PIPE UP TO MAINFLOOR.
16. 38ø SAN PIPE DROP FROM LAV-1 AT MAIN FLOOR WASHROOM & SK-1 AT STAFF ROOM.
17. WEEPING TILE SUMP PUMP CONTROL PANEL AND LOCAL ALARM TO BE INSTALLED IN MAIN FLOOR MECHANICAL ROOM 1:07.
18. WEEPING TILE SUMP PUMP DISCHARGE UP TO DISCHARGE ONTO SPLASH PAD @ GRADE SUPPLIED BY OTHERS.
19. CONDENSATE DRAIN LINE DOWN FROM MAIN FLOOR.
20. CONDENSATE DRAIN LINE TO DROP DOWN TO INDIRECTLY DRAIN TO WEEPING TILE PIT APPROXIMATELY AS SHOWN.
21. 20ø NATURAL GAS LINE UP TO MAIN FLOOR TO SERVE FIRE PLACE.

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

PROVINCE OF MANITOBA — JAMES A. CHIMKO — Member 23356 — 2019-08-12 — REGISTERED PROFESSIONAL ENGINEER

Winnipeg

Bill and Helen Norrie Library

Project No.: 2017-082
Tender No.: 542-2019
Address: 15 Poseidon Bay, Winnipeg, MB.

PLUMBING LAYOUT - CRAWLSPACE

Comm. No.: 1847

Sheet: **M1.0R1**

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