

Date: March 24th, 2025

Project : Renovation and Addition Bytek Volkswagen

Attn: Brian K. Clark – Brian K. Clark Architects

Addendum #4

Mechanical:

1. Plans updated with service bay deleted to match the electrical.
2. Notes added for the gas meter to remain with the existing drive thru appliances to be removed. Gas to be connected to the new drive through heating and boiler. New gas connections for the new roof top units AC-2&3. Confirm gas heating requirements for replacement unit AC-1. Coordinate with Enbridge for increased load as required.
3. Notes on main garage to have the sanitary replaced as per the sewer inspection sketches and notes.
4. Existing water layout is concealed within the existing structure and is not known. The piping is all small dia (1/2" to 3/4") copper piping. Provide new piping and re-use existing piping as much as possible. No layout will be provided.
5. Duct dimensions for AC-3 added.
6. Duct dimensions and layout for AC-1 revised for new layout with unit changed to have a 6 ton cooling capacity.
7. Interference drawings with to be done by the contractor where obstructions may occur.
8. Wall box specification added with notes on drawings.
9. Exhaust fan EF-3 revised to a ceiling cabinet exhaust for lounge kitchen.
10. Exhaust fan EF-5 in new electrical room to have a fire damper on the discharge wall penetration. Provide new transfer grille through rated wall with fire damper.DT

If you have any questions please feel free to call.

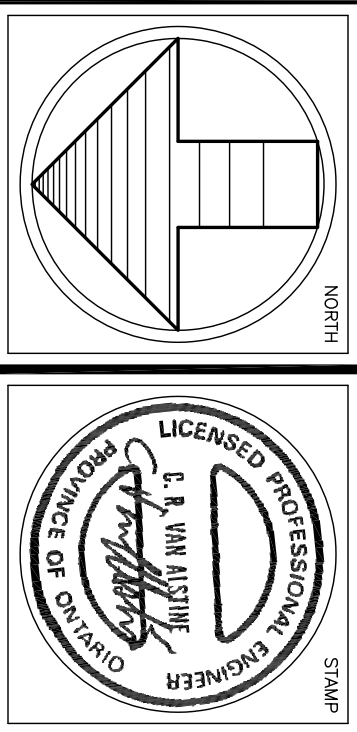
Yours truly,

Charles Van Alstine P.Eng.

Note:
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LEGEND	
	EXIST. SANITARY SEWER BELOW GRADE
	SANITARY SEWER BELOW GRADE
	SANITARY SEWER ABOVE GRADE
	VENT
	EXIST. STORM SEWER BELOW GRADE
	STORM SEWER BELOW GRADE
	EXIST. COLD WATER
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER RECIRC.
	FIRE MAIN
	GAS
	RISE UP
	RISE DOWN
	RISE OR DROP
	BRANCH TOP CONNECTION
	BRANCH BOTTOM CONNECTION
	UNION
	CLEAN OUT
	HUB DRAIN
	FLOOR DRAIN
	ROOF DRAIN
	NON-FREEZE WALL HYDRANT
	WATER METER
	GATE VALVE
	GLOBE VALVE
	CHECK VALVE
	PRESSURE REDUCING VALVE
	STRAINER
	FIRE DEPARTMENT STANDARD CONN.
	FIRE EXTINGUISHER
	THERMOSTAT
	HUMIDISTAT
	SUPPLY DUCT
	RETURN OR EXHAUST DUCT
	BALANCING DAMPER
	ACOUSTICALLY INSULATED DUCT
	THERMALLY INSULATED DUCT

5	REVISED TO MATCH ARCH.	MAR 24/25
4	REVISED PER ADDENDUM	NOV 28/24
3	ISSUED FOR PRICING	OCT 11/24
1	ISSUED FOR BUILDING PERMIT	OCT 18/23
0	PRELIMINARY REVIEW	APRIL 2022
NO.	REVISION/ISSUE	DATE



EVEREST
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CONSULTING ENGINEERS

PROJECT

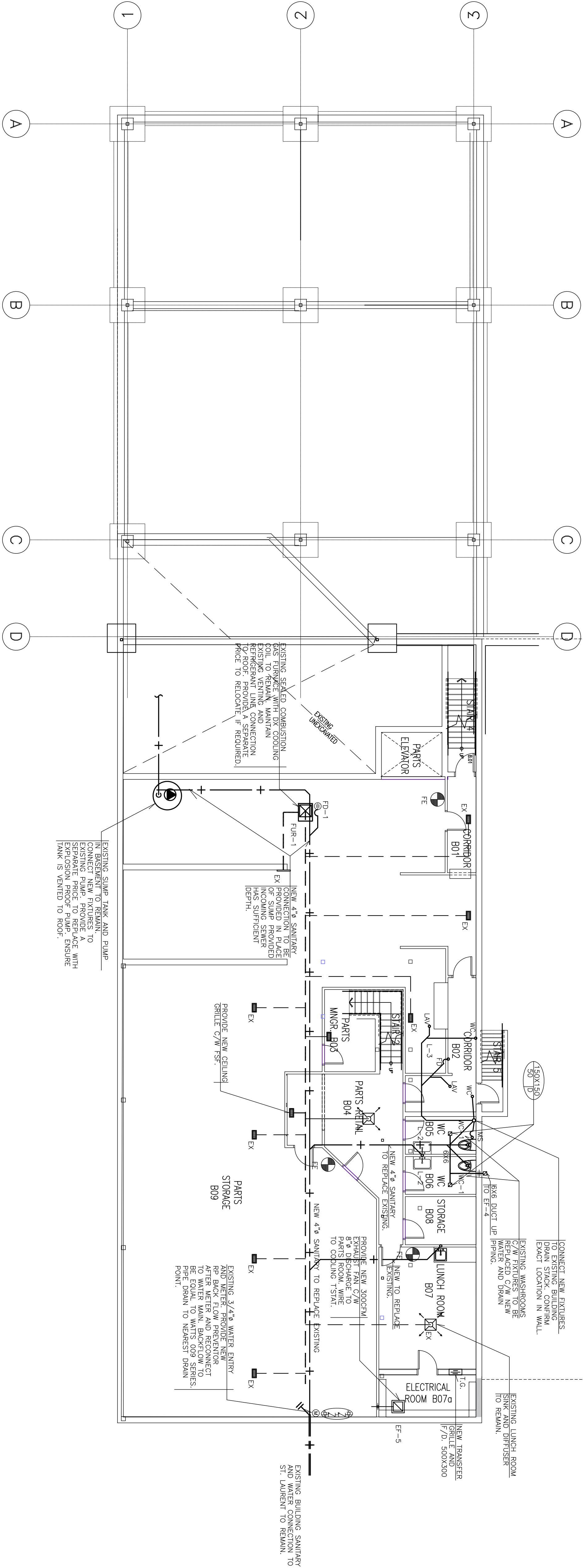
Bytek Volkswagen
1325 St Laurent Blvd,
Renovation

OTTAWA — ONTARIO

SCALE	1:100	DRAWN BY	C.V.A.
ISSUED		CHECKED BY	G.L.
DATE	MARCH 2023	PROJECT NO.	

DRAWING NUMBER	REV. NO.
M-1	OF 5

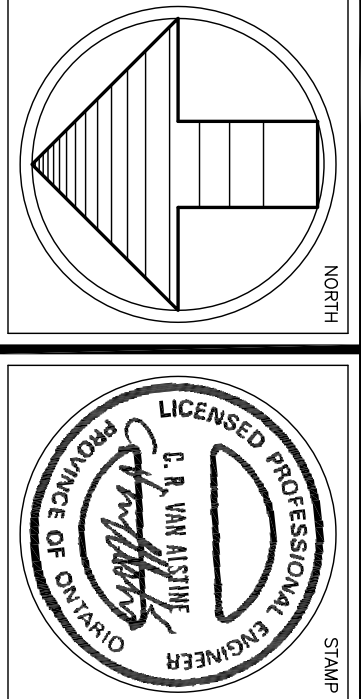
TITLE
BASEMENT PLAN



EXISTING SUMP TANK AND PUMP
CONNECT NEW PIPES TO
EXISTING SUMP TANK AND PUMP.
EXPLOSION PROOF PUMP- ENSURE
TANK IS VENTED TO ROOF.

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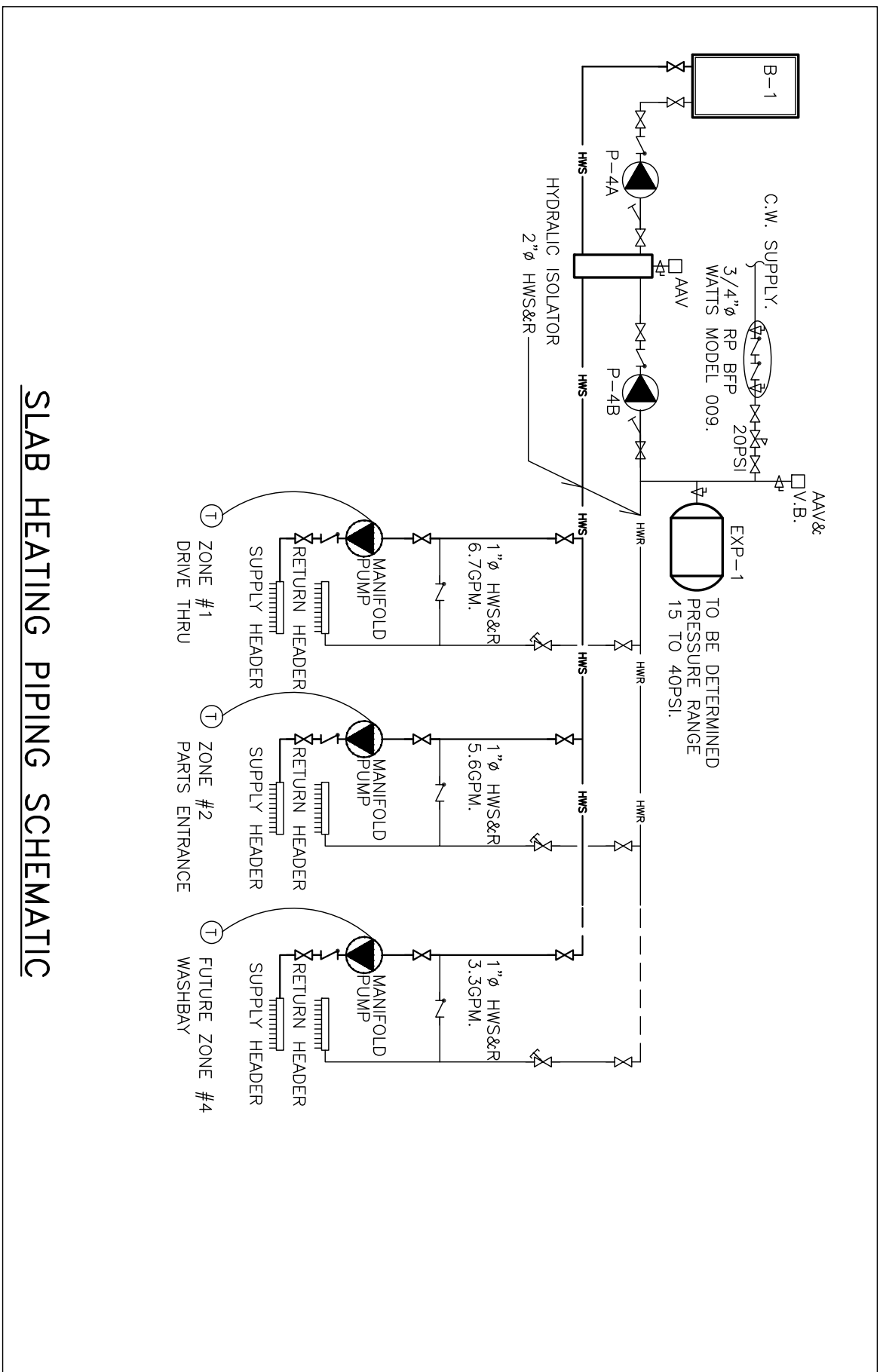
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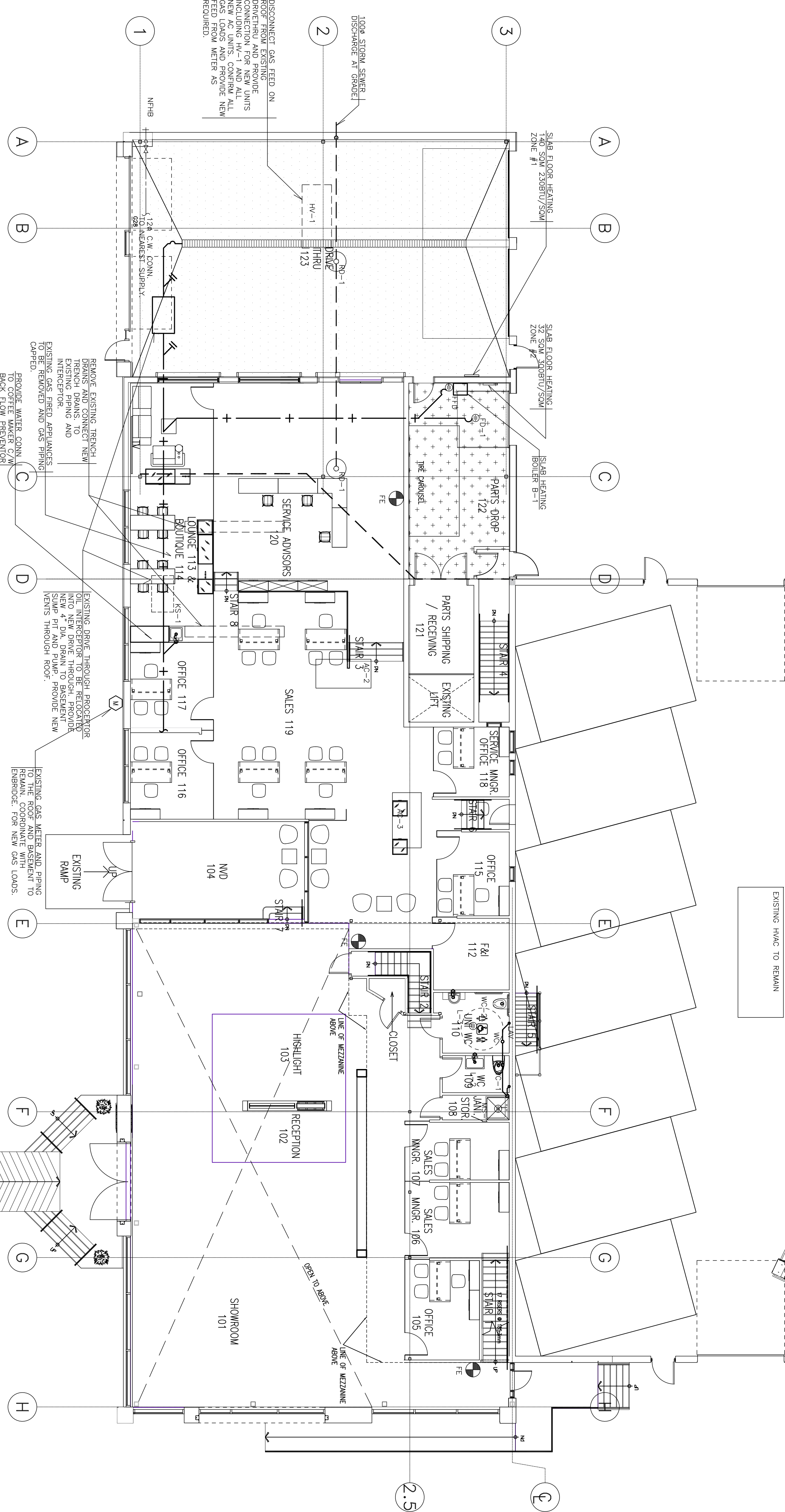
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DRAWING NUMBER	REV. NO.
M-2 OF 5	

GROUND FLOOR
PLUMBING



SLAB HEATING PIPING SCHEMATIC



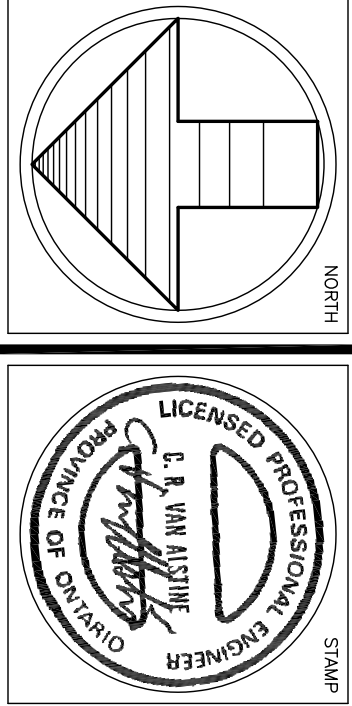
EXISTING HVAC TO REMAIN

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M-3 OF 5	

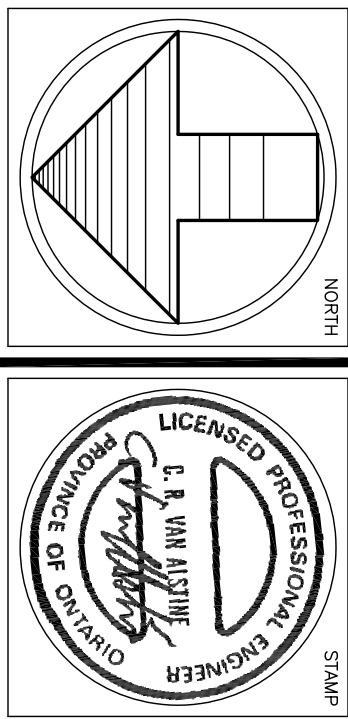
GROUND FLOOR
H.V.A.C.



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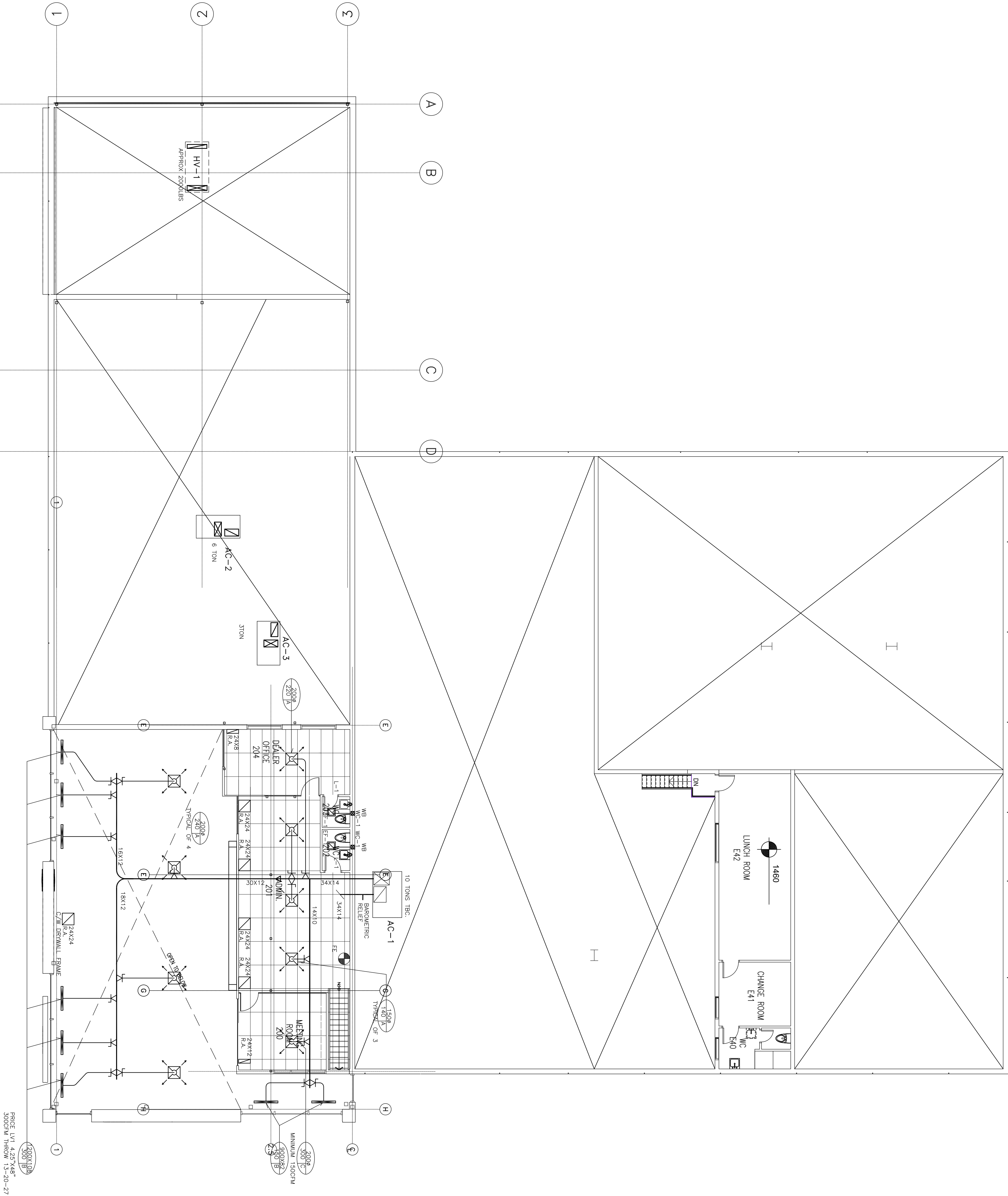
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M-4 OF 5	

MEZZANINE PLANS



Mechanical Specifications

GENERAL

1. The general conditions and supplementary general conditions as indicated in the Architectural Specifications shall apply to Division 15.
2. Scope
Provide complete heating/cooling ventilating system plumbing and gas distribution as generally shown on drawings and described herein. Coordinate installation with the various trades.
Pay for and obtain all permits, inspections, fees and licenses as required by the authorities having jurisdiction. Submit drawings to the authorities as required.
All work shall conform to the latest code requirements of the Provincial Building Code, Energy Act, Fire Marshall's Act, Municipal bylaws and other authorities having jurisdiction.
The installation shall be in accordance with appropriate standards for the type of equipment and materials used. Manufacturers' instructions for installation outlined by the manufacturer. Drawings are to be read in conjunction with the aforementioned codes and standards with no exceptions.
Installation performed only by contractors licensed and familiar with these codes.
Furnish inspection certificates prior to final payment to show that all work complies with the applicable codes and with bylaws and regulations of all authorities having jurisdiction.
3. Drawings and Specifications
1. Project drawings and specifications are complementary to this contract. The drawings shall be read in conjunction with the specifications. The Engineer for a ruling in writing prior to tender. Addendum apply.
2. Drawings in part are diagrammatic and intended to convey the scope of work and general layout of mechanical systems. Do not scale drawings for quantities. All dimensions shall be taken from the drawings. The number, work and material of an incidental nature, necessary by implication to produce the finished jobs as specified, shall be supplied.
3. No deviations from the specifications or drawings will be allowed without written permission from the Engineer.
4. Certified Roughing Dimensions
Drawings for mechanical services shall be obtained from the equipment suppliers in advance of the building construction and shall form part of the contract drawings.
Prior to fabrication, field measure for conflict between structural members, lighting, sprinklers, piping, diffusers and ductwork. Report discrepancies to consultant.
5. Examination of Site
Submission of tender is deemed to be confirmation that the contractor has inspected the site and examined all contract documents. No extras will be considered for failure to comply with the above.
6. Shop Drawings
Submit five (5) copies of shop drawings for all mechanical system components. Shop drawings shall be submitted to the Engineer for approval. Each shop drawing shall indicate:
- Name of contractor
- Name of consultant
- Date of component and service for which it is used.
1. Overall Dimensions, roughing-in dimensions and clearance Dimensions.
2. Identified performance data indicating operating flows, pressures, air and fluid, operating weight, electrical characteristics and brake horsepower requirements.
3. Identification of material and type of finish.
4. Verification of space clearance, available voltages on site and the location of connections to the equipment shall be the full responsibility of the Contractor.
As Built Drawings
Show all revisions and alterations of the entire mechanical contract on one set of prints and submit to engineer prior to substantial completion of job. As built drawings are to be kept on site and updated weekly. No changes to the drawings shall be made without the written approval of the Engineer. Written authorization from the consultant. As built drawings to be transported onto reproducible media by the contractor before final completion of the project. The contractor shall be responsible for the maintenance of the construction close working procedures are to be maintained.
8. Equipment and Maintenance Manuals
Supply three (3) copies of maintenance and operation manuals for each piece of major equipment and components. The manuals shall include instructions for operation, maintenance, safety, and troubleshooting. The manuals shall be provided in hard copy and three-ring binders with an index, page and indexing tabs.
9. Hoisting and Rigging
In accordance with the construction schedule, provide for transportation and setting in place of equipment.
10. Concealment
Conceal all piping and ductwork in partitions, walls and between floor and ceiling. Provide access doors (for installation by others) at all locations. Concealment shall be in accordance with the drawings and specifications, and fire dampers, etc. in indicated areas of where shown.
11. Cutting and Patching
Cutting, drilling and patching required by the passage of pipes, and ductwork shall be the responsibility of the contractor. The contractor shall be responsible for the repair and patching of the general contract.
12. Pipe and Duct Slopes
Supply and locate all pipe and duct sleeves, generally fabricated from galvanized steel (1/4" thick) with a minimum of 1/2" slope. All pipe and duct sleeves shall be of sufficient diameter to accommodate insulation. During new construction coordinate all new openings with general trades.
13. Escalator Hoists
Provide where pipes run through walls, floors and ceilings in all finished areas.
14. Materials Specified
Materials and equipment described on the drawings are used to establish the minimum standards for the work. Where the manufacturer's trade names are used, the tender price shall be based upon those products. Contractor may list alternative materials and equipment, but they must be approved by the Engineer. Alternatives must be approved in writing by the consultant prior to tender. This applies to the two working days of tender closing.
15. Workmanship
Maintain on site a competent foreman to supervise the work for the duration of the contract. Coordinate and supervise installation of all mechanical services. The contractor shall be responsible for the installation of all mechanical services, including the installation of all equipment with other trades and ensure that all work and inspections are complete and equipment is functioning as designed.
16. Protection and Cleaning
Protect all materials and equipment supplied during construction until the building is formally accepted by the Owner.
Store materials and equipment delivered to the site in a safe dry location. After installation, protect all equipment and plumbing fixtures using shipping crates, cartons or tarpaulins.
After completion of the contract, remove all debris, and replace any damaged components. Clean equipment, lubricate fan and motor bearings and install new air filters.

HEATING, VENTILATING AND AIR CONDITIONING

17. Access Doors
Supply access doors for installation by others for all concealed valves, fire dampers, cocks, cleanouts, air vents, dampers, and any other equipment which requires maintenance or adjustment.
18. Scaffolding
Supply erect and remove all scaffolding necessary for the performance of the work.
19. Guarantee
The contractor shall furnish the Owner with a written guarantee for the satisfaction of all work and equipment installed under this contract and for the replacement of any equipment or material found to be defective or prove defective within a period of 12 months after final acceptance of the complete contract.
No certificate given, payment made or use of the equipment by the Owner shall be construed as acceptance of defective work or improper materials.
This general guarantee shall not act as a waiver to any specified guarantee that is greater than 12 months.
1. General
The plumbing and drainage drawings shall be in accordance with the Ontario Water Resources Commission Act and with Municipal and Provincial codes and by-laws having jurisdiction.
2. Reference Standards
1. Provide pipe fittings and valves to the following standards:
2. Valves: ANSI
3. Fittings: CSA B15
2. Drainage Regulation B15
3. Piping Installation
Arrange and install piping, appropriately as indicated from right angles on parallel lines with building walls. Slope piping to achieve proper drainage and air elimination. Provide drain valves on all low points of the piping system.
All piping shall be new, clean and free from cutting burrs and defects. Piping shall be installed in accordance with the following standards:
- For domestic water services use CS-5 solder or all pipe. Provide dielectric unions at all couplings of ferrous and non-ferrous pipe. All groups of fixtures shall have shock absorbers of the sealed manufactured type, sized to suit the number of fixtures served.
- Pipes, structures and hangers
- Auxiliary structural members shall be provided where piping or ducts must be suspended between joists and beams. Obtain approval from the Structural Engineer before installation.
- Isolate copper piping from hanger or other piping where electrolytic action can occur.
- The hangers supporting insulated piping shall fit around the outside of the insulation. Insulation shields shall be supplied and installed.
- Do NOT suspend one pipe from another. Support spading in accordance with ASHRAE and ASPE standards with vibration isolators to minimize vibration transmission and amplification.
Expansion
1. Provide expansion guides and loops to compensate for expansion and contraction of the pipework, based on a 150 degF temperature differential. Erect piping so that the weight does not fall upon the cast connections or supports.
5. Tealing of Piping
Fill all new water systems with water and hydrostatically test the a pressure of one and one-half times the working pressure and maintain such pressure for 24 hours. Should leaks appear during the tests, repair the defect, and re-test.
7. Piping Material Schedule
Service Material
1. All piping shall be new, clean and free from cutting burrs and defects. Piping shall be installed in accordance with the following standards:
- For domestic water services use CS-5 solder or all pipe. Provide dielectric unions at all couplings of ferrous and non-ferrous pipe. All groups of fixtures shall have shock absorbers of the sealed manufactured type, sized to suit the number of fixtures served.
- Pipes, structures and hangers
- Auxiliary structural members shall be provided where piping or ducts must be suspended between joists and beams. Obtain approval from the Structural Engineer before installation.
- Isolate copper piping from hanger or other piping where electrolytic action can occur.
- The hangers supporting insulated piping shall fit around the outside of the insulation. Insulation shields shall be supplied and installed.
- Do NOT suspend one pipe from another. Support spading in accordance with ASHRAE and ASPE standards with vibration isolators to minimize vibration transmission and amplification.
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1. Provide expansion guides and loops to compensate for expansion and contraction of the pipework, based on a 150 degF temperature differential. Erect piping so that the weight does not fall upon the cast connections or supports.
6. H & C/V
Copper type "L" or
to ASTM B88
Solder
Pumping Code
8. H & C/V
Copper type "L" or
to ASTM B88
Solder
Pumping Code
10. H & C/V
Copper type "L" or
to ASTM B88
Solder
Pumping Code
12. H & C/V
Copper type "L" or
to ASTM B88
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Copper type "L" or
to ASTM B88
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to ASTM B88
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Pumping Code
182. H & C/V
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to ASTM B88
Solder
Pumping Code
184. H & C/V
Copper type "L" or
to ASTM B88
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Pumping Code
186. H & C/V
Copper type "L" or
to ASTM B88
Solder
Pumping Code
188. H & C/V
Copper type "L" or
to ASTM B88
Solder
Pumping Code
190. H & C/V
Copper type "L" or
to ASTM B88
Solder
Pumping Code
192. H & C/V
Copper type "L" or
to ASTM B88
Solder
Pumping Code
194. H & C/V
Copper type "L" or
to ASTM B88
Solder
Pumping Code
196. H & C/V
Copper type "L" or
to ASTM B88
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Pumping Code
198. H & C/V
Copper type "L" or
to ASTM B88
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Pumping Code
200. H & C/V
Copper type "L" or
to ASTM B88
Solder
Pumping Code
202. H & C/V
Copper type "L" or
to ASTM B88
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Pumping Code
204. H & C/V
Copper type "L" or
to ASTM B88
Solder
Pumping Code
206. H & C/V
Copper type "L" or
to ASTM B88
Solder
Pumping Code
208. H & C/V
Copper type "L" or
to ASTM B88
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Pumping Code
210. H & C/V
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to ASTM B88
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Pumping Code
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Pumping Code
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to ASTM B88
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Pumping Code
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to ASTM B88
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Pumping Code
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to ASTM B88
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Pumping Code
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Pumping Code
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to ASTM B88
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Pumping Code
228. H & C/V
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to ASTM B88
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Pumping Code
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to ASTM B88
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Pumping Code
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to ASTM B88
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Pumping Code
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to ASTM B88
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Pumping Code
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to ASTM B88
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to ASTM B88
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to ASTM B88
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to ASTM B88
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to ASTM B88
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to ASTM B88
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to ASTM B88
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to ASTM B88
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to ASTM B88
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to ASTM B88
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to ASTM B88
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to ASTM B88
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to ASTM B88
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Pumping Code
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to ASTM B88
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Pumping Code
270. H & C/V
Copper type "L" or
to ASTM B88
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Pumping Code
272. H & C/V
Copper type "L" or
to ASTM B88
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Pumping Code
274. H & C/V
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to ASTM B88
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Pumping Code
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to ASTM B88
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Pumping Code
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to ASTM B88
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Pumping Code
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to ASTM B88
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to ASTM B88
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Pumping Code
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to ASTM B88
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Pumping Code
286. H & C/V
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to ASTM B88
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to ASTM B88
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to ASTM B88
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to ASTM B88
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to ASTM B88
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Pumping Code
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to ASTM B88
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Pumping Code
298. H & C/V
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to ASTM B88
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Pumping Code
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to ASTM B88
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Pumping Code
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