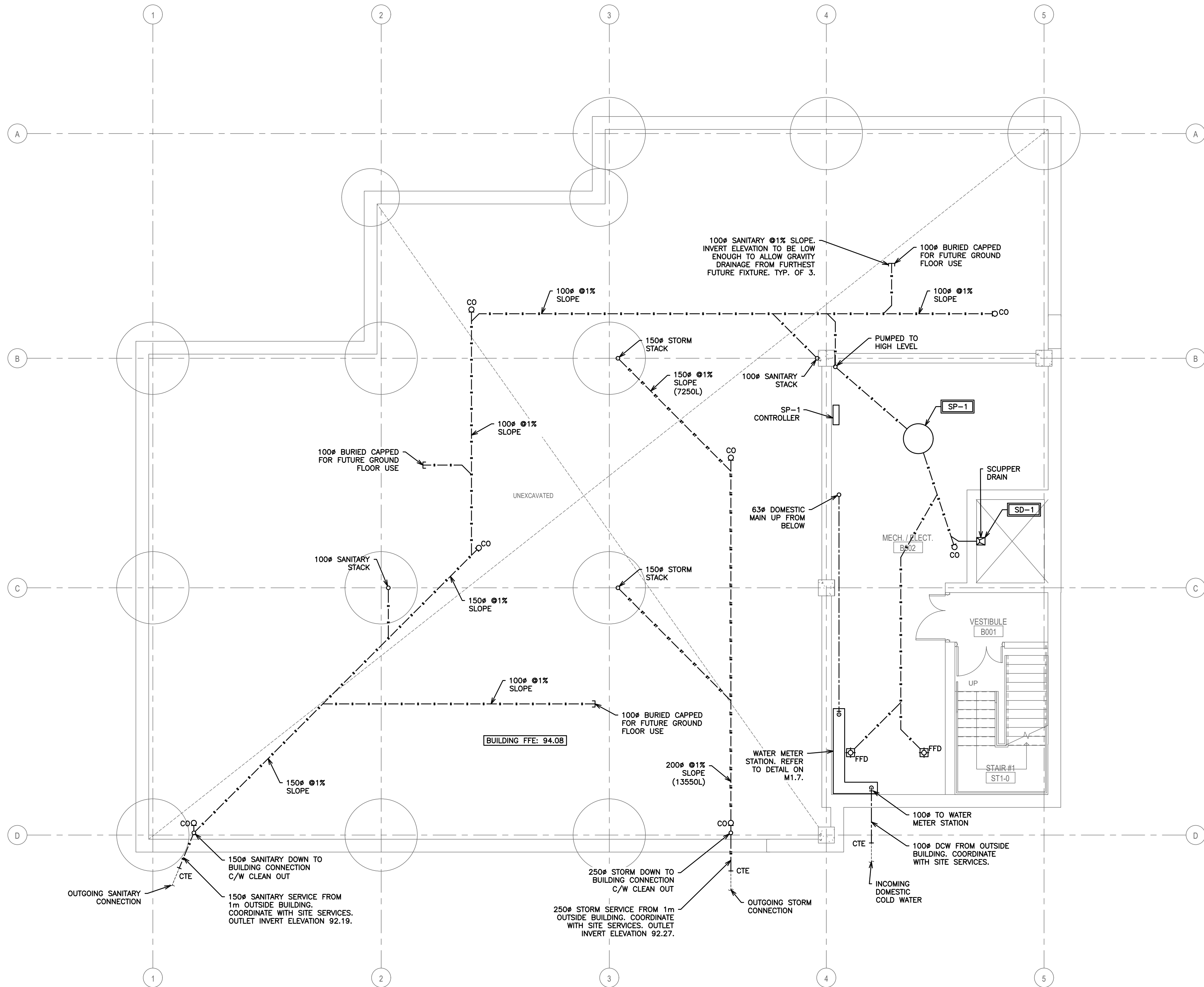




TRAP SEAL PRIMER REQUIREMENTS:

1. COMPLIANCE & TYPE: PROVIDE CSA-APPROVED ELECTRONIC OR PRESSURE-DROP TRAP SEAL PRIMERS FOR ALL FLOOR DRAINS, AREA DRAINS, AND HUB DRAINS SUBJECT TO INFREQUENT OR SEASONAL USE IN ACCORDANCE WITH OBC. ELECTRONIC MULTI-PORT PRIMERS ARE PREFERRED FOR REMOTE MECHANICAL, AND PARKING.
2. SPECIFICATIONS & COORDINATION: REFER TO PLUMBING FIXTURE SCHEDULE ON DRAWING M1.13 FOR DETAILED PRODUCT SPECIFICATIONS. CONTRACTOR SHALL COORDINATE EXACT RECESSED PANEL AND PIPING LOCATIONS ON SITE.
3. ACCESS & UTILITIES: ALL TRAP SEALER VALVES, ELECTRONIC PANELS, AND SOLENOIDS MUST REMAIN FULLY ACCESSIBLE FOR MAINTENANCE. CONTRACTOR TO PROVIDE ACCESS PANELS WHERE ENCLOSED IN WALLS OR CEILINGS. COORDINATE 120V ELECTRICAL CONNECTIONS FOR ALL ELECTRONIC MODELS WITH ELECTRICAL DIVISION.

PLUMBING CONSTRUCTION AND COORDINATION NOTES:

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2. PIPING SHOWN FOR SCHEMATIC AND SCOPE OF WORK PURPOSES IN GENERAL. LOCATION OF USE, COORDINATE EXACT ROUTING ON SITE AND WITH BEST PRACTICES.
3. ALL SANITARY AND STORM TO BE RUN AT A MINIMUM SLOPES. ALL HORIZONTAL SANITARY LINES EQUAL TO OR LESS THAN 75# TO BE RUN AT MINIMUM 2% SLOPE.
4. RUN ALL DOMESTIC AND SANITARY PIPING TIGHT TO UNDERSIDE OF SLAB
5. ALL PIPING SANITARY, STORM, AND DOMESTIC INCLUDING PEX PIPING BOTH EXPOSED AND CONCEALED SHALL ACCOMMODATE BOTH ACOUSTIC AND/OR INSULATION WRAP. CONTRACTOR TO COORDINATE. NO EXCEPTIONS.
6. COORDINATE SHARED SPACES WITH ELECTRICAL, GAS PIPING, HVAC DUCTWORK AND SPRINKLER PIPING.
7. COORDINATE ALL HOLES THROUGH SLAB AND MASONRY WALLS WITH GENERAL CONTRACTOR PRIOR TO COMMENCEMENT OF WORK.
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13. PROVIDE ISOLATION VALVES AT ALL HOT WATER TANKS AND ALL FIXTURES.
14. COORDINATE BURIED SANITARY LINES WITH STRUCTURAL FOOTINGS.
15. THE CONSULTANT RESERVES THE RIGHT TO MAKE REASONABLE CHANGES REQUIRED TO ACCOMMODATE CONDITIONS ARISING DURING THE PROGRESS OF THE WORK, AT NO EXTRA COST TO THE OWNER.

PLUMBING LEGEND

|           |                                                           |
|-----------|-----------------------------------------------------------|
| ----      | DOMESTIC COLD WATER (DCW)                                 |
| ----      | DOMESTIC HOT WATER (DHW)                                  |
| - - - - - | UNBURIED SANITARY DRAINAGE (US)                           |
| - - - - - | BURIED SANITARY DRAINAGE (S)                              |
| - - - - - | UNBURIED STORM DRAINAGE (UST)                             |
| - - - - - | BURIED STORM DRAINAGE (ST)                                |
| —○—○—○—   | PIPE UP, BRANCH DROPPING FROM TEE, PIPE DOWN              |
| —         | PIPE BREAK/CONTINUATION                                   |
| XD        | FLOOR (F), ROOF (R), HUB (H), FUNNEL (FF), AREA (A) DRAIN |
| ⋈         | BALL VALVE                                                |
| ⋈         | CHECK VALVE                                               |
| ⋈         | GLOBE VALVE                                               |
| ⋈         | PRESSURE REDUCING VALVE (PRV)                             |
| ⋈         | REDUCER                                                   |
| ⋈         | STRAINER                                                  |
| ⋈         | UNION                                                     |
| ⋈         | PRESSURE GAUGE WITH PETCOCK                               |
| —○—○—○—   | CLEAN OUT - EXPOSED                                       |
| —○—○—○—   | CLEAN OUT - IN FLOOR                                      |
| ○         | SANITARY TRAP                                             |
| WC-1      | EQUIPMENT/FIXTURE TAG                                     |

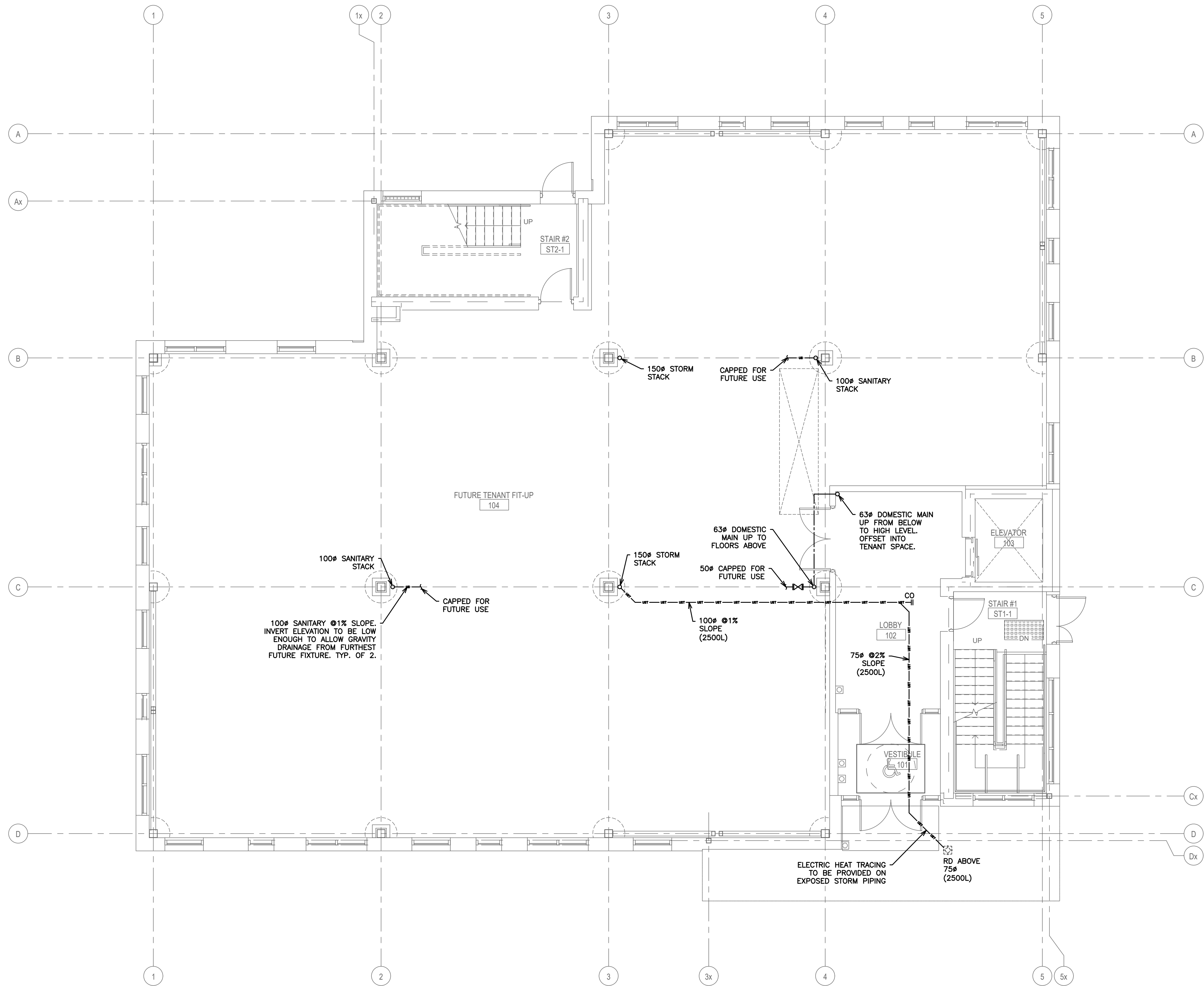
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|-----|-----------------------------|----------|
| 3   | ISSUED FOR PERMIT           | AUG 2026 |
| 2   | ISSUED FOR 90% COORDINATION | AUG 2026 |
| 1   | ISSUED FOR 50% COORDINATION | JUL 2026 |
| NO. | SUBMISSION                  | DATE     |

BOWMANVILLE HEALTH CLINIC  
222 KING STREET, BOWMANVILLE, ON  
**MECHANICAL PLUMBING  
BASEMENT LAYOUT**

**D.G. BIDDLE & ASSOCIATES**  
CONSULTING ENGINEERS & PLANNERS  
481 Taunton Rd W, Oshawa ON  
150 King St, Peterborough ON  
Phone: 905-578-8500  
info@dgbiddle.com  
dgbiddle.com

|  |              |         |
|--|--------------|---------|
|  | SCALE:       | 1:75    |
|  | DESIGNED BY: | B.C.A   |
|  | CHECKED BY:  | G.V.W.O |
|  | PROJECT NO.: | 125807  |
|  | DRAWING NO.: | M1.1    |

26/09/2026  
A:\STAFF\JOB FILES\125807\125807 222 KING STREET EAST - BOWMANVILLE HEALTH CT CLINIC EXPANSION\125807 DRAWINGS\125807 MECH\ELC\PHASE 2 - CT CLINIC\125807 PHASE 2 - M



- PLUMBING CONSTRUCTION AND COORDINATION NOTES:**
- TENDERING OF THESE DOCUMENTS IS DONE UNDER THE MUTUAL UNDERSTANDING THAT ALL CONTRACTORS ARE EXPERIENCED AND LICENSED IN THE WORKS BEING PROVIDED AND THAT ALL COMPONENTS OF A FULLY FUNCTIONING SYSTEM WILL BE INCLUDED WHETHER SHOWN OR NOT SHOWN BUT IMPLIED FOR A COMPLETE SYSTEM.
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| PLUMBING LEGEND |                                                           |
|-----------------|-----------------------------------------------------------|
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| ----            | DOMESTIC HOT WATER (DHW)                                  |
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| —○—             | PIPE UP, BRANCH DROPPING FROM TEE, PIPE DOWN              |
| —               | PIPE BREAK/CONTINUATION                                   |
| XD              | FLOOR (F), ROOF (R), HUB (H), FUNNEL (FF), AREA (A) DRAIN |
| ⋈               | BALL VALVE                                                |
| ⋈               | CHECK VALVE                                               |
| ⋈               | GLOBE VALVE                                               |
| ⋈               | PRESSURE REDUCING VALVE (PRV)                             |
| ⋈               | REDUCER                                                   |
| ⋈               | STRAINER                                                  |
| ⋈               | UNION                                                     |
| ⋈               | PRESSURE GAUGE WITH PETCOCK                               |
| —○—             | CLEAN OUT - EXPOSED                                       |
| —○—             | CLEAN OUT - IN FLOOR                                      |
| ⋈               | SANITARY TRAP                                             |
| WC-1            | EQUIPMENT/FIXTURE TAG                                     |

| NO. | SUBMISSION                  | DATE     |
|-----|-----------------------------|----------|
| 3   | ISSUED FOR PERMIT           | AUG 2026 |
| 2   | ISSUED FOR 90% COORDINATION | AUG 2026 |
| 1   | ISSUED FOR 50% COORDINATION | JUL 2026 |

BOWMANVILLE HEALTH CLINIC  
222 KING STREET, BOWMANVILLE, ON

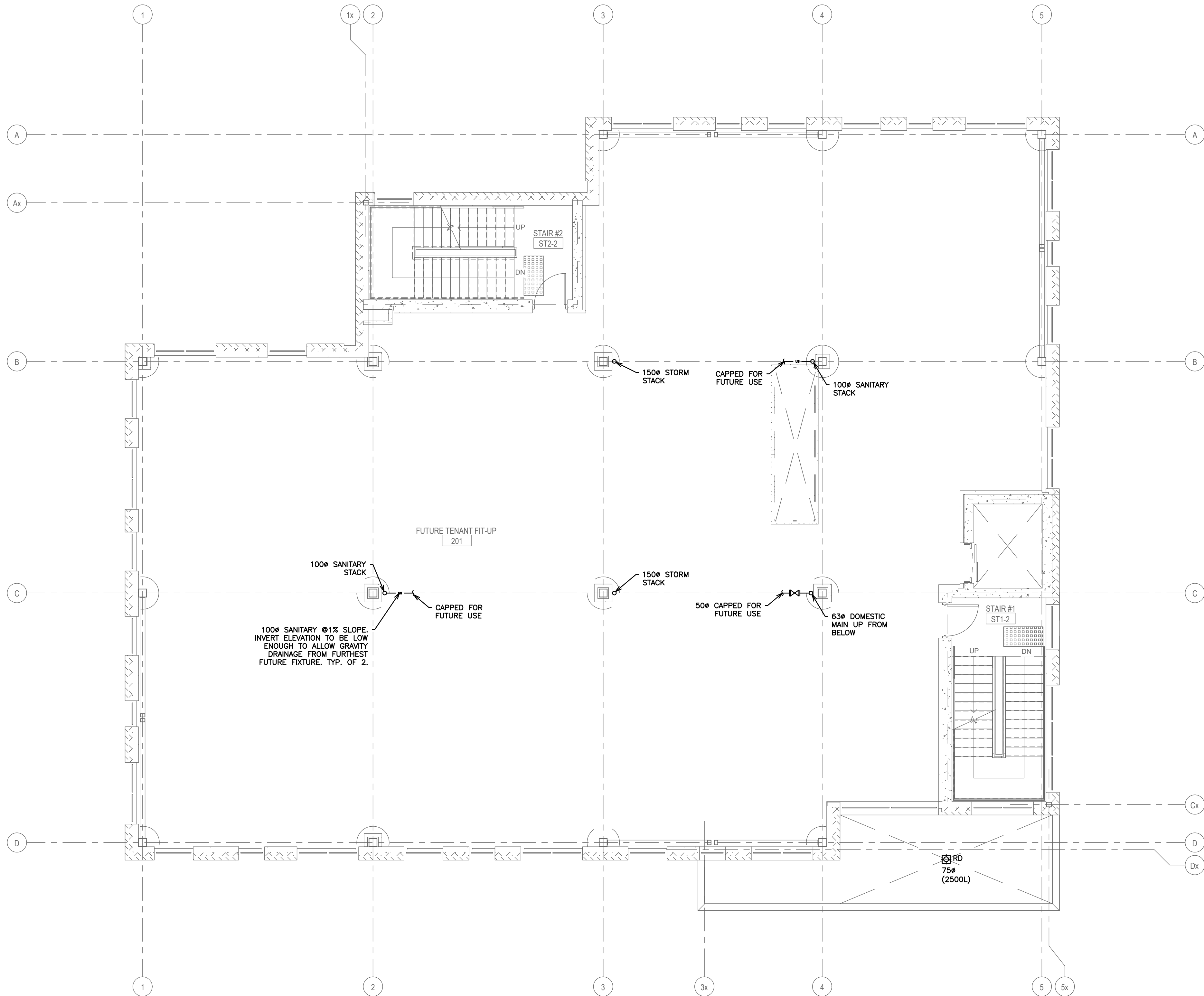
## MECHANICAL PLUMBING GROUND FLOOR

**D.G. BIDDLE & ASSOCIATES**  
CONSULTING ENGINEERS & PLANNERS

481 Taunton Rd W, Oshawa ON  
150 King St, Peterborough ON  
Phone: 905-578-8500  
info@dgbiddle.com  
dgbiddle.com

|  |              |         |
|--|--------------|---------|
|  | SCALE:       | 1:75    |
|  | DESIGNED BY: | B.C.A   |
|  | CHECKED BY:  | G.V.W.O |
|  | PROJECT NO.: | 125807  |
|  | DRAWING NO.: | M1.2    |

FOR INFORMATION ONLY- STRUCTURAL TENDER



**PLUMBING CONSTRUCTION AND COORDINATION NOTES:**

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| —○—S—D—   | PIPE UP, BRANCH DROPPING FROM TEE, PIPE DOWN              |
| —         | PIPE BREAK/CONTINUATION                                   |
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| ⋈         | BALL VALVE                                                |
| ⋈         | CHECK VALVE                                               |
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| ⋈         | REDUCER                                                   |
| ⋈         | STRAINER                                                  |
| ⋈         | UNION                                                     |
| ⋈         | PRESSURE GAUGE WITH PETCOCK                               |
| —○—       | CLEAN OUT - EXPOSED                                       |
| —○—       | CLEAN OUT - IN FLOOR                                      |
| ⋈         | SANITARY TRAP                                             |
| WC-1      | EQUIPMENT/FIXTURE TAG                                     |

|     |                             |          |
|-----|-----------------------------|----------|
| 3   | ISSUED FOR PERMIT           | AUG 2026 |
| 2   | ISSUED FOR 90% COORDINATION | AUG 2026 |
| 1   | ISSUED FOR 50% COORDINATION | JUL 2026 |
| NO. | SUBMISSION                  | DATE     |

**BOWMANVILLE HEALTH CLINIC**  
222 KING STREET, BOWMANVILLE, ON

**MECHANICAL PLUMBING**  
**SECOND FLOOR**

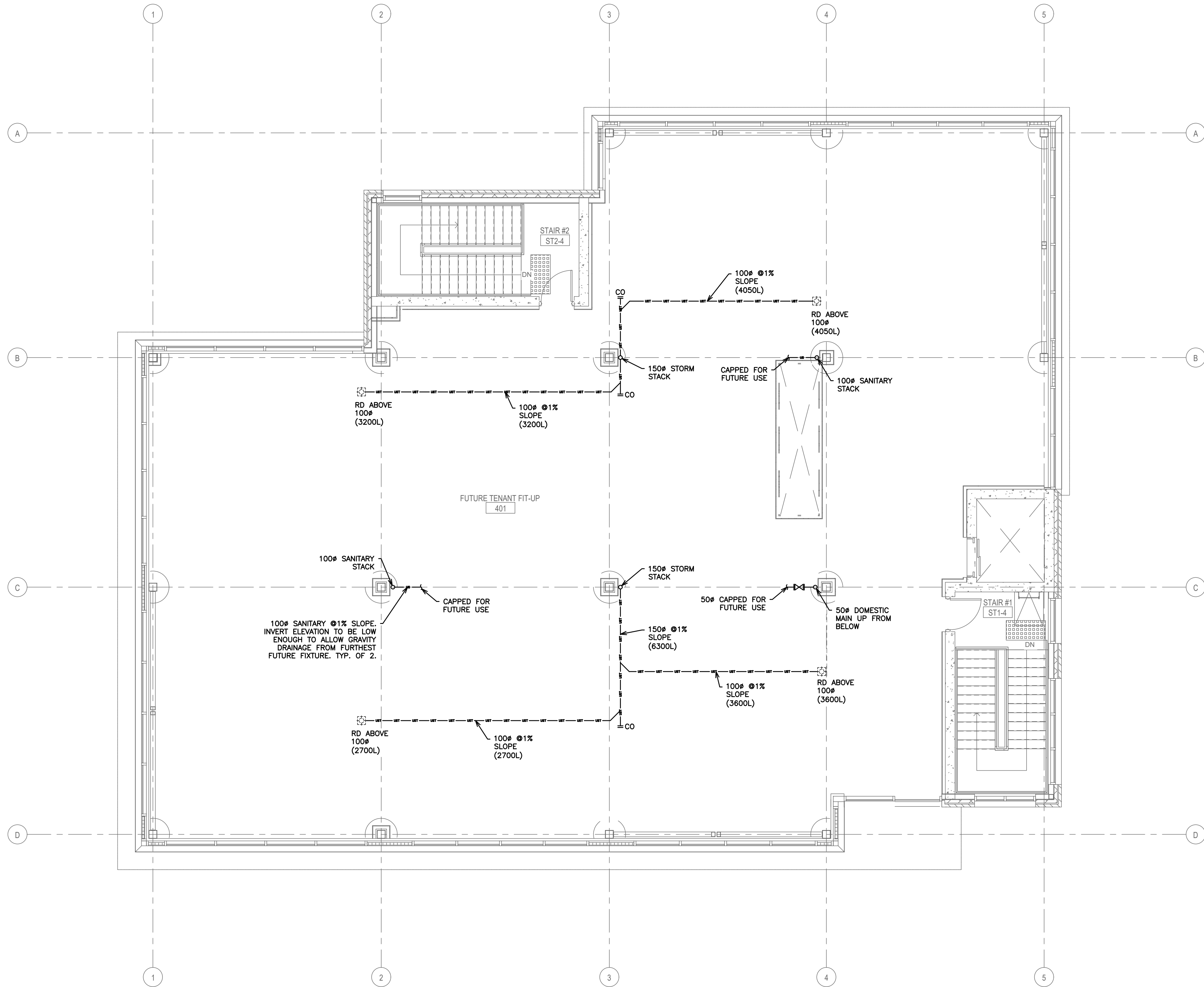
**D.G. BIDDLE & ASSOCIATES**  
CONSULTING ENGINEERS & PLANNERS

481 Taunton Rd W, Oshawa ON  
150 King St, Peterborough ON  
Phone: 905-578-8500  
info@dgbiddle.com  
dgbiddle.com

|  |              |         |
|--|--------------|---------|
|  | SCALE:       | 1:75    |
|  | DESIGNED BY: | B.C.A   |
|  | CHECKED BY:  | G.V.W.O |
|  | PROJECT NO.: | 125807  |
|  | DRAWING NO.: | M1.3    |



26/09/2026  
A:\STAFF\JOB FILES\125807\125807 222 KING STREET EAST - BOWMANVILLE HEALTH CT CLINIC EXPANSION\125807 MECHANICAL\125807 PHASE 2 - M  
DRAWINGS\125807 MECHANICAL\125807 PHASE 2 - M



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|           |                                                           |
|-----------|-----------------------------------------------------------|
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| —○—○—○—   | PIPE UP, BRANCH DROPPING FROM TEE, PIPE DOWN              |
| —         | PIPE BREAK/CONTINUATION                                   |
| XD        | FLOOR (F), ROOF (R), HUB (H), FUNNEL (FF), AREA (A) DRAIN |
| ⌵         | BALL VALVE                                                |
| ⌵         | CHECK VALVE                                               |
| ⌵         | GLOBE VALVE                                               |
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| ⌵         | REDUCER                                                   |
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| —○—○—○—   | CLEAN OUT - EXPOSED                                       |
| —○—○—○—   | CLEAN OUT - IN FLOOR                                      |
| ⌵         | SANITARY TRAP                                             |
| WC-1      | EQUIPMENT/FIXTURE TAG                                     |

|     |                             |          |
|-----|-----------------------------|----------|
| 3   | ISSUED FOR PERMIT           | AUG 2026 |
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BOWMANVILLE HEALTH CLINIC  
222 KING STREET, BOWMANVILLE, ON

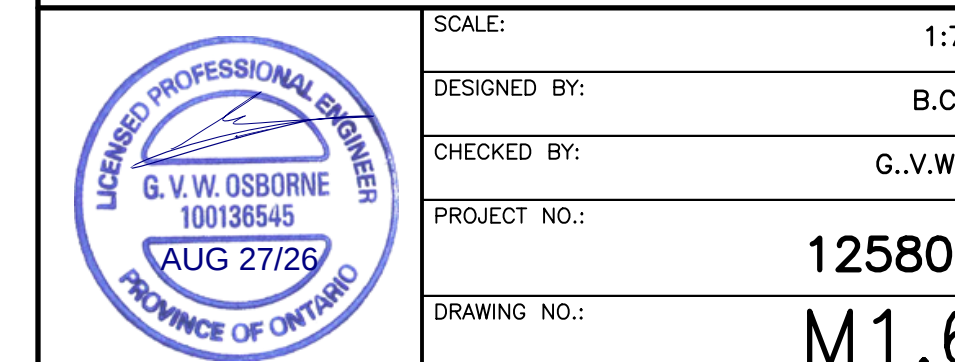
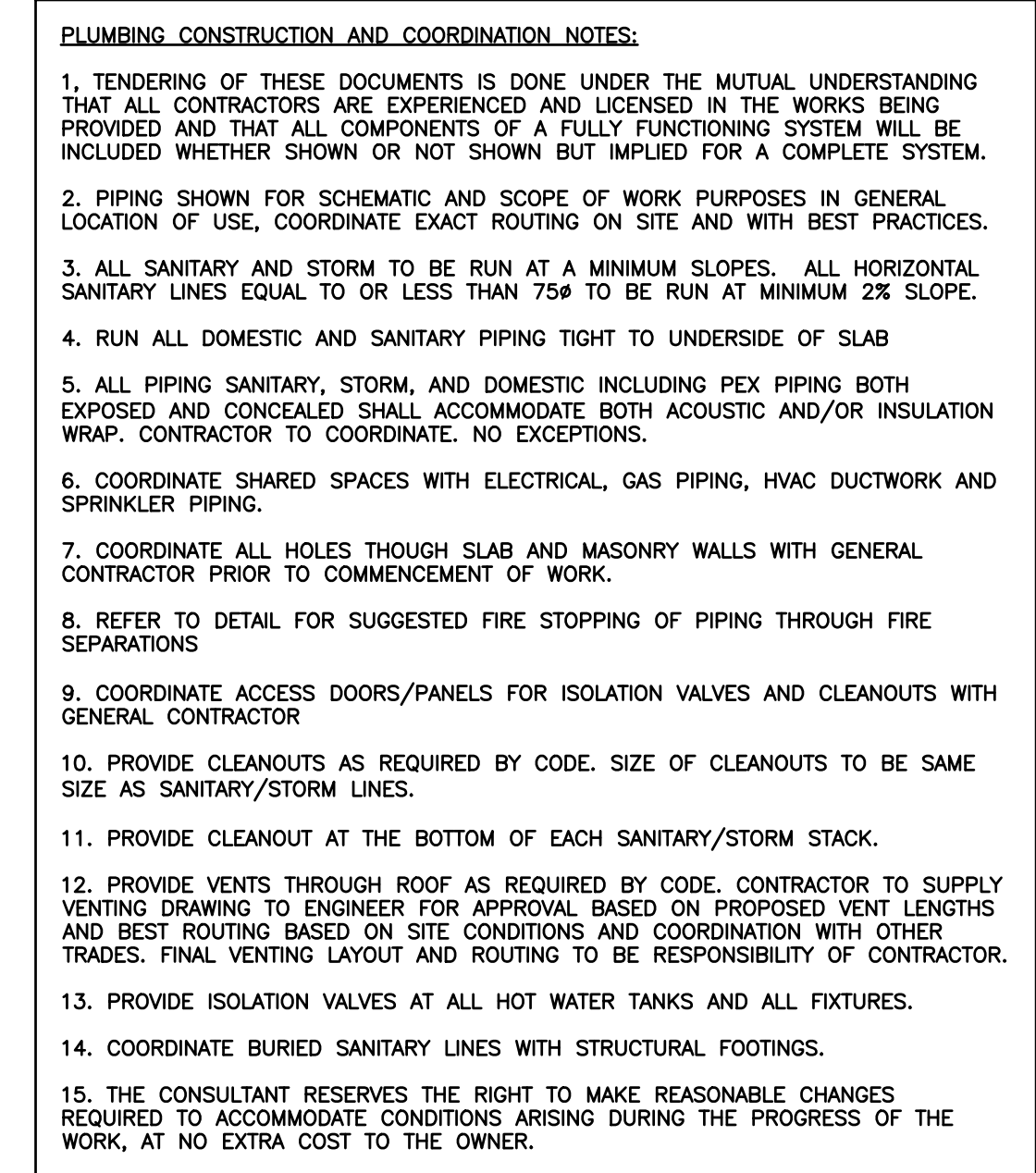
**MECHANICAL PLUMBING  
FOURTH FLOOR**

**D.G. BIDDLE & ASSOCIATES**  
CONSULTING ENGINEERS & PLANNERS

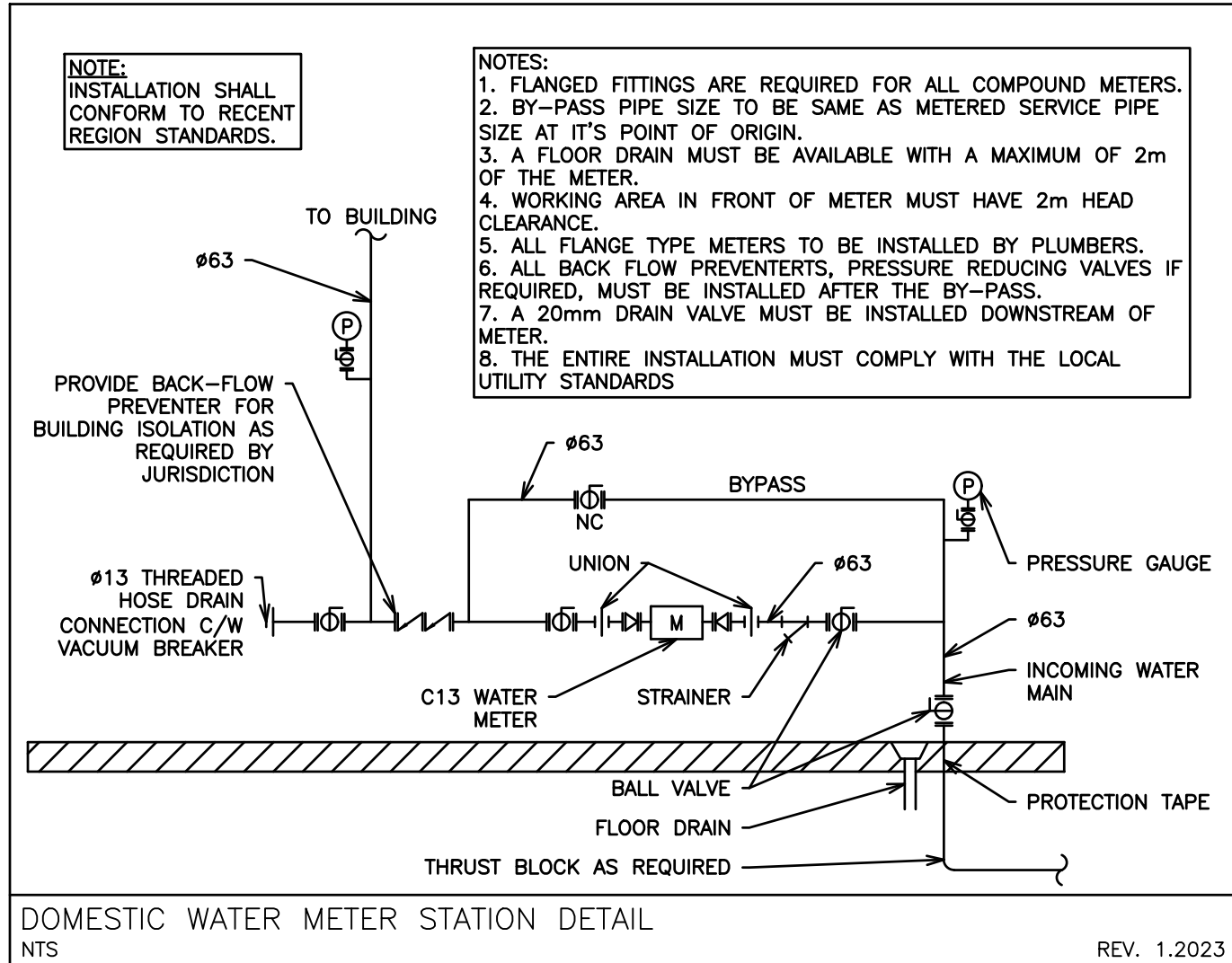
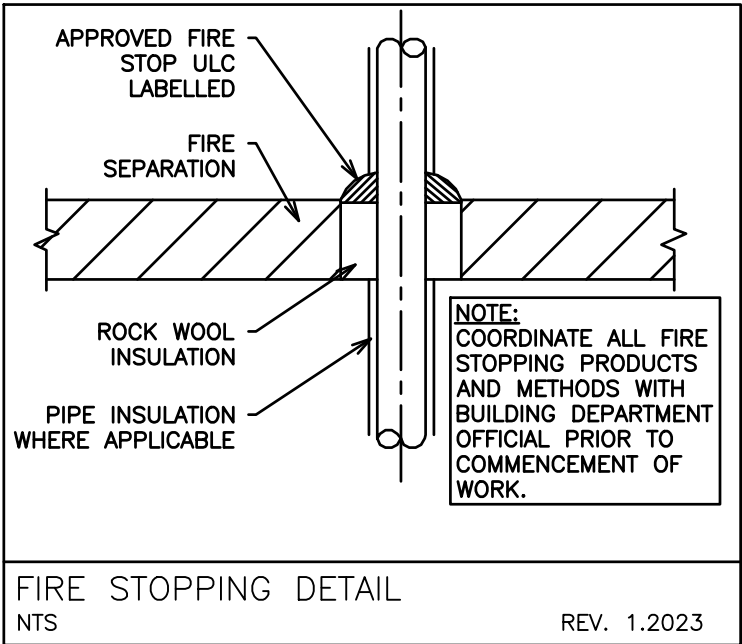
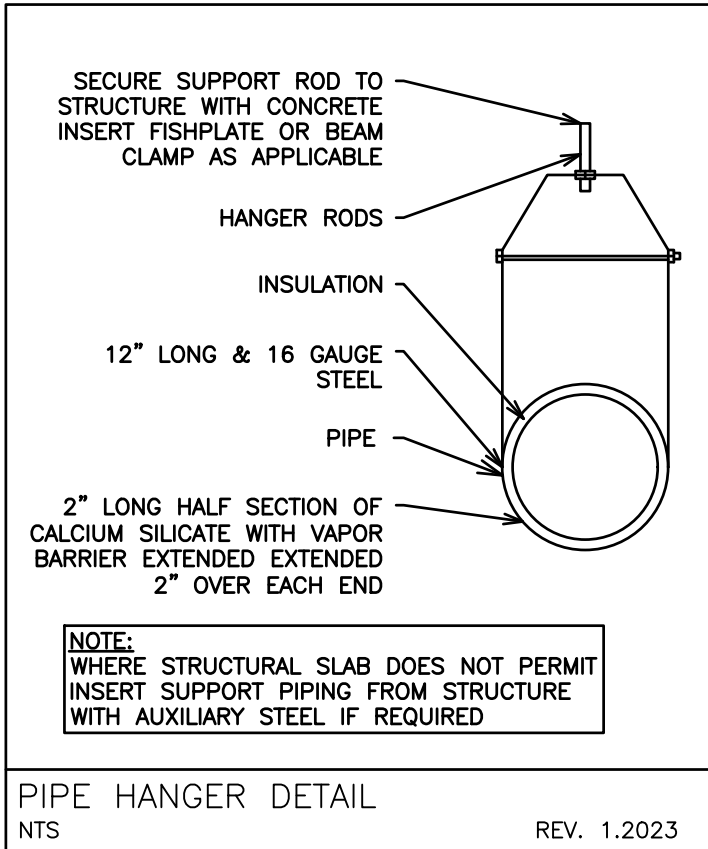
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|  | SCALE:       | 1:75    |
|  | DESIGNED BY: | B.C.A   |
|  | CHECKED BY:  | G.V.W.O |
|  | PROJECT NO.: | 125807  |
|  | DRAWING NO.: | M1.5    |

FOR INFORMATION ONLY- STRUCTURAL TENDER

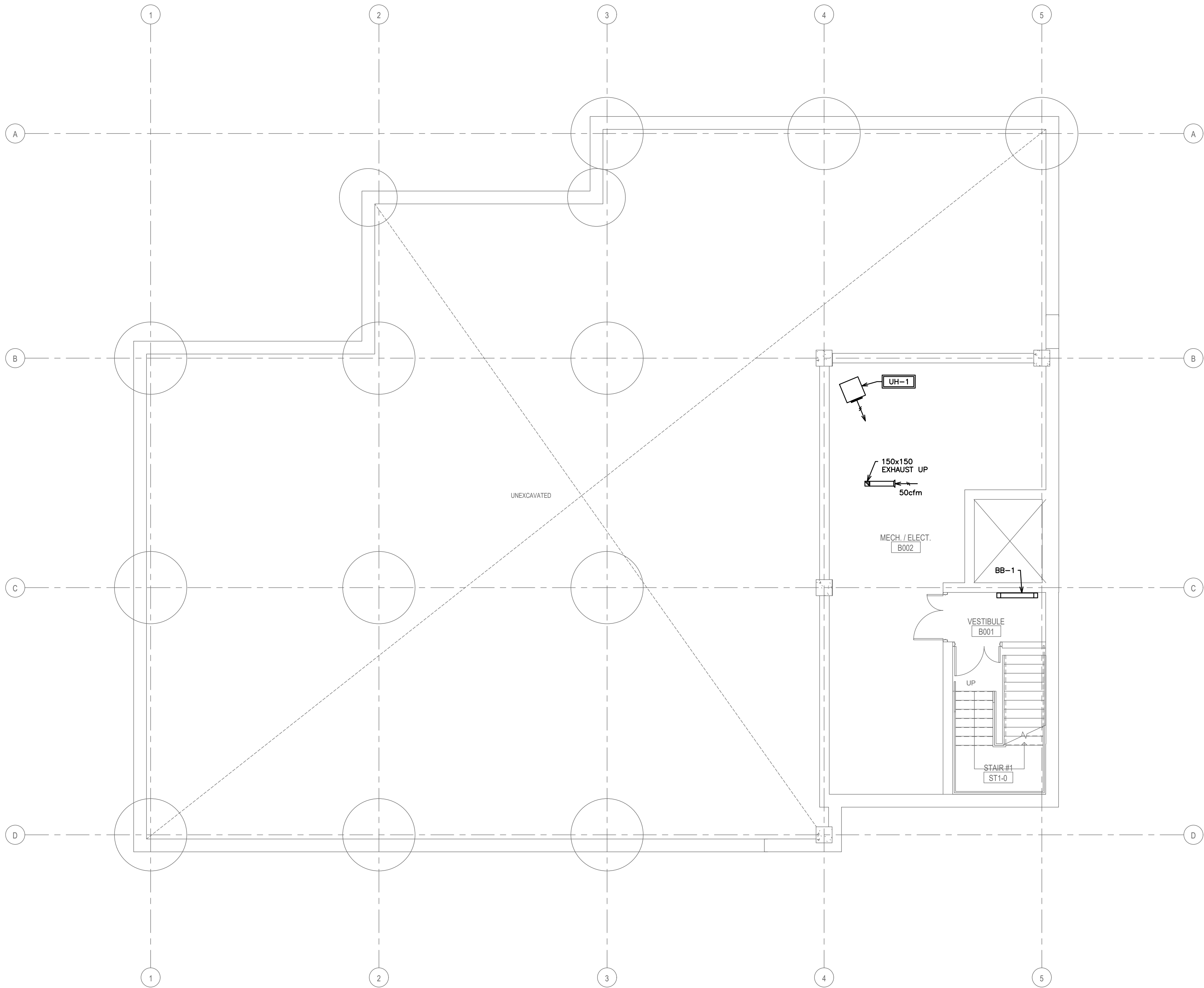


| SANITARY PUMP SCHEDULE (DUPLEX)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |               |                       |        |     |          |            |                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------------|--------|-----|----------|------------|-----------------------------|
| TAG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | MANUFACTURER  | MODEL                 | FLOW   | HP  | PRESSURE | ELECTRICAL | PUMP CHAMBER                |
| SP-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | LIBERTY PUMPS | EPS125B03<br>XFL51M-3 | 40 GPM | 1/2 | 22 FEET  | 115/1ph    | 30"x____"h FIBERGLASS BASIN |
| <b>GENERAL EQUIPMENT NOTES &amp; SCHEDULE SUMMARY:</b><br>1. CONTRACTOR TO VERIFY ALL DIMENSIONS AND ELECTRICAL COMPATIBILITY PRIOR TO SUBMITTING SHOP DRAWINGS.<br>2. SUBMERSIBLE PUMPS (QTY: 2): MODEL XFL51M-3 EXPLOSION-PROOF SUBMERSIBLE PUMPS, 0.5 HP, 115V, 1-PHASE. NOMINAL PERFORMANCE: 108 GPM @ 38' TDH. PROVIDE 35' POWER CORD AND LOOSE (2) K001515 CAPACITOR KITS.<br>3. CONTROL PANEL (QTY: 1): MODEL ISD24LC2=3-5 NEMA 4X INTRINSICALLY SAFE DUPLEX ALTERNATING CONTROL PANEL. PROVIDE WITH INTEGRAL SEAL-FAIL CIRCUITRY, AUXILIARY CONTACTS, AND INTEGRAL AUDIO/VISUAL HIGH-LEVEL ALARM BEACON.<br>4. PUMP BASIN & COVER (QTY: 1 SYSTEM): 30" DIA. X ____" H FIBERGLASS BASIN COMPLETE WITH FIBERGLASS ANTI-FLOATATION FLANGE, 2" SIDE DISCHARGE, AND 2" FEMALE THREADED PVC DISCHARGE COUPLING. PROVIDE WITH MATCHING 30" STEEL BLANK COVER.<br>5. LIFT PRODUCTIVITY / GUIDE RAILS (QTY: 2 SYSTEMS): MODEL GR22NS-FL GUIDE RAIL ASSEMBLIES COMPLETE WITH 1-1/4" STAINLESS STEEL UPPER/LOWER STEADY-REST RAILS AND STAINLESS STEEL LIFTING CHAINS SIZED FOR BASIN DEPTH.<br>6. INLET CONNECTIONS (QTY: 1): (1) 4" UNMOUNTED INLET HUB TO BE FIELD-INSTALLED BY CONTRACTOR AT ELEVATION INDICATED ON CIVIL/PLUMBING PROFILES.<br>7. INTERNAL PLUMBING & VALVING (QTY: 1 LOT): PROVIDE ALL INTERNAL DISCHARGE VALVING AND APPURTENANCES INCLUDING PVC BALL VALVES, PVC CHECK VALVES, FLOAT BRACKET, AND IN-BASIN SCH 80 PVC DISCHARGE PIPING.<br>8. ELECTRICAL PENETRATIONS (QTY: 2): PROVIDE 2" ELECTRICAL COUPLINGS FOR CONDUIT ENTRY CONNECTIONS INTO BASIN WALLS. ALL PENETRATIONS TO BE SEALED GASTIGHT PER CODE REQUIREMENTS. |               |                       |        |     |          |            |                             |



| PLUMBING NOTES |                                                                                                                                                                                                                                                                                                                                   |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. GENERAL     |                                                                                                                                                                                                                                                                                                                                   |
| 1.1.           | FOR CONTINUATION OF SITE SERVICES REFER TO SITE SERVICE DRAWING BY OTHERS. CO-ORDINATE EXACT LOCATION AND INVERTS OF SERVICES.                                                                                                                                                                                                    |
| 1.2.           | PROVIDE CLEANOUTS AND TRAP PRIMING FOR SANITARY AS REQUIRED BY O.B.C. AND LOCAL AUTHORITIES. CLEANOUTS SIZE TO BE SAME AS SANITARY LINES.                                                                                                                                                                                         |
| 1.3.           | PROVIDE COMPLETE PLUMBING VENT SYSTEM AS REQUIRED BY O.B.C. AND LOCAL AUTHORITIES, INCLUDING MIN. 75# VENT AT UPSTREAM END(S) OF SANITARY BUILDING DRAIN.                                                                                                                                                                         |
| 1.4.           | ISOLATION VALVES TO BE PROVIDED AT ALL FIXTURES AND HOT WATER TANK.                                                                                                                                                                                                                                                               |
| 1.5.           | PIPE INSULATION TO BE 25mm FOR ALL NEW AND/OR EFFECTED DOMESTIC PIPING. IN EXPOSED AREAS PROVIDE CANVAS WRAP OVER INSULATION.                                                                                                                                                                                                     |
| 2. MATERIALS   |                                                                                                                                                                                                                                                                                                                                   |
| 2.1.           | ALL PVC OR ABS TYPE PIPING TO BE USED ABOVE GROUND SHALL COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS AND SHALL BE CONFIRMED TO BE ACCEPTABLE BY THE AUTHORITY HAVING JURISDICTION. IF ACCEPTABLE AND USED, IT SHALL BE PROVIDED WITH U.L.C. LISTED AND APPROVED FIRE STOP DEVICE AT ALL PENETRATIONS OF ANY FIRE SEPARATION. |
| 2.2.           | ALL ABOVE GROUND DOMESTIC PIPING SHALL BE TYPE "I" COPPER.                                                                                                                                                                                                                                                                        |
| 2.3.           | ALL BURIED DOMESTIC PIPING SHALL BE TYPE "K" COPPER.                                                                                                                                                                                                                                                                              |
| 2.4.           | ALL ABOVE GROUND DRAINAGE PIPING SHALL BE CAST IRON "M" PIPE.                                                                                                                                                                                                                                                                     |
| 2.5.           | ALL BURIED DRAINAGE PIPING SHALL BE DR26 PVC WITH CLASS P BEDDING.                                                                                                                                                                                                                                                                |

| GENERAL REQUIREMENTS FOR MECHANICAL WORK  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. SCOPE OF WORK                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 1.1.                                      | CONFORM TO THE APPLICABLE PROVISIONS OF THE GENERAL CONDITIONS OF THE CONTRACT.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 1.2.                                      | THE GENERAL MECHANICAL SPECIFICATIONS SHALL APPLY TO AND BE PART OF EACH OF THE SECTIONS COVERING THE MECHANICAL TRADES WORK.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 1.3.                                      | COMPLY WITH THE REQUIREMENTS OF THE CURRENT EDITION OF THE O.B.C., ALL OTHER APPLICABLE CODES, REGULATIONS, BY-LAWS AND OFFICIAL STANDARDS AND INTERPRETATIONS OF THE AUTHORITIES HAVING JURISDICTION. THESE CODES AND STANDARDS CONSTITUTE AN INTEGRAL PART OF THESE SPECIFICATIONS. IN CASE OF CONFLICT, THE CODES TAKE PRECEDENCE OVER THE CONTRACT DOCUMENTS.                                                                                                                                                                                                                                                                                                                       |
| 2. EXAMINATION OF SITE AND INFORMATION    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 2.1.                                      | EACH SUBCONTRACTOR, BEFORE PRICING, SHALL EXAMINE THE SITE, THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND THEY SHALL FAMILIARIZE THEMSELVES WITH THE BUILDING CONSTRUCTION AND FINISH IN ORDER THAT THEIR TENDER MAY INCLUDE EVERYTHING NECESSARY FOR THE PROPER COMPLETION OF THE WORK.                                                                                                                                                                                                                                                                                                                                                                       |
| 3. RELATIONSHIP TO OTHER TRADES           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 3.1.                                      | THIS SUBCONTRACTOR SHALL CONFER WITH ALL OTHER CONTRACTORS INSTALLING EQUIPMENT, PIPING, OTHER WORK, FOUNDATIONS, ETC., WHICH MAY AFFECT THEIR INSTALLATION, AND THEY SHALL ARRANGE THEIR EQUIPMENT, PIPING, ETC., IN PROPER RELATION WITH OTHER APPARATUS, AND WITH THE BUILDING CONSTRUCTION. THIS SUBCONTRACTOR SHALL ALSO CONFIRM THE ELECTRICAL CHARACTERISTICS OF THE PROJECT AND ORDER EQUIPMENT ACCORDINGLY.                                                                                                                                                                                                                                                                    |
| 3.2.                                      | SPECIAL CARE SHALL BE TAKEN IN THE INSTALLATION OF ALL WORK, TO SEE THAT THEY ALL COME WITHIN THE LIMITS ESTABLISHED BY THE FINISH LINES OF ALL WALLS, FLOORS, CEILINGS, ETC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 3.3.                                      | THIS SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR AND OTHER SUBCONTRACTORS WHO ARE CONCERNED, OF ALL OPENINGS, FOUNDATION WORK, HANGERS, INSERTS, ANCHORS, OR OTHER PROVISIONS NECESSARY IN THEIR WORK FOR THE INSTALLATION OF THE SUBCONTRACTORS WORK, AND THEY SHALL FURNISH ALL INFORMATION AND NECESSARY MATERIALS IN AMPLE TIME SO THAT PROPER PROVISIONS CAN BE MADE FOR SAME, AND SHALL SUPPLY AND CORRECTLY AND ACCURATELY PLACE ALL INSERTS, SLEEVES, ANCHORS, ETC.                                                                                                                                                                                                               |
| 3.4.                                      | FAILURE TO COMPLY WITH THESE REQUIREMENTS ON THE PART OF THIS SUBCONTRACTOR WILL RENDER THEM RESPONSIBLE FOR THE COST OF CUTTING OPENINGS, INSTALLING HANGERS AND OTHER PROVISIONS AT A LATER DATE, AND THE SUBSEQUENT PATCHING, ETC., THEREBY REQUIRED.                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 3.5.                                      | NO CUTTING SHALL BE DONE WITHOUT PERMISSION. ALL SUCH WORK SHALL BE DONE BY TRADES-PERSONS SKILLED IN AND CERTIFIED FOR THIS PARTICULAR TRADE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 3.6.                                      | EACH SUBCONTRACTOR IS TO BE AN EXPERT IN THEIR TRADE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 4. REQUIREMENTS OF INSPECTION DEPARTMENTS |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 4.1.                                      | ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH ALL LAWS AND REGULATIONS OF ALL AUTHORITIES HAVING JURISDICTION IN EACH CASE, PARTICULARLY ALL AFFECTED DEPARTMENTS OF THE MUNICIPALITY AND PROVINCE. ELECTRICAL EQUIPMENT SUPPLIED MUST CONFORM TO THE REGULATIONS OF CSA AND THE LOCAL UTILITY. ANYTHING NECESSARY TO MAKE THE WORK COMPLY WITH THESE REQUIREMENTS SHALL BE PROVIDED BY THIS SUBCONTRACTOR WITHOUT ADDITIONAL COST TO THE OWNERS IF IT REASONABLY COULD HAVE BEEN FORESEEN WHEN TENDERING.                                                                                                                                                                             |
| 4.2.                                      | EACH SUBCONTRACTOR SHALL PREPARE DRAWINGS IN ADDITION TO ENGINEER'S DRAWINGS AS MAY BE REQUIRED BY VARIOUS INSPECTION DEPARTMENTS HAVING JURISDICTION, AND OBTAIN THEIR APPROVAL BEFORE PROCEEDING WITH THE WORK.                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 4.3.                                      | IN THE EVENT THAT THE INSPECTION DEPARTMENT'S REQUEST DEVIATES FROM THE ENGINEER'S LAYOUT, THE SUBCONTRACTOR SHALL CONSULT ENGINEER BEFORE PROCEEDING WITH THE SAME. IT SHALL BE NOTED THAT ENGINEER'S DRAWINGS ARE GENERALLY ACCEPTABLE TO INSPECTION DEPARTMENTS AND MINOR SUPPLEMENTS NEED ONLY BE MADE BY SUBCONTRACTORS.                                                                                                                                                                                                                                                                                                                                                           |
| 5. CERTIFICATES, PERMITS, FEES            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 5.1.                                      | SUBCONTRACTORS SHALL GIVE ALL NECESSARY NOTICES, OBTAIN ALL REQUIRED PERMITS AND PAY ALL FEES INCLUDING PAYMENT TO STORM, SANITARY, WATER AND GAS IN ORDER THAT THE WORK HEREIN SPECIFIED MAY BE CARRIED OUT AND THEY SHALL FURNISH ANY CERTIFICATES NEEDED AS EVIDENCE THAT THE WORK INSTALLED CONFORMS WITH THE LAWS AND REGULATIONS OF THE MUNICIPALITY AND PROVINCE.                                                                                                                                                                                                                                                                                                                |
| 6. GUARANTEE                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 6.1.                                      | THIS SUBCONTRACTOR SHALL GUARANTEE ALL MATERIAL AND WORKMANSHIP USED IN THE WORK TO BE IN STRICT ACCORDANCE WITH THE BEST QUALITY AND TYPE OBTAINABLE TO GIVE FIRST-CLASS CONSTRUCTION AND PROPER EFFICIENT OPERATION, AND FREE FROM ANY DEFECTS. ANY SUCH DEFECTS WHICH MAY APPEAR IN ANY OF THE WORK WITHIN ONE YEAR AFTER WRITTEN ACCEPTANCE OF THEIR WORK, SHALL BE REPAIRED AND RE-DOED WITHOUT ADDITIONAL EXPENSE TO THE OWNER. WHERE SUCH DEFECTS OCCUR, THIS SUBCONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL COSTS INCURRED IN MAKING THE DEFECTIVE WORK GOOD. THIS SHALL NOT OBSOLETE ANY LONGER WARRANTIES ON SPECIFIC ITEMS OF EQUIPMENT.                                    |
| 6.2.                                      | ALL INJURIES TO ADJACENT WORK, PARTICULARLY PLASTER, WOOD FINISHES OR OTHER MATERIALS, OR DAMAGE TO OTHER EQUIPMENT, CAUSED BY SUCH DEFECTS OF THIS SUBCONTRACTOR'S WORK OR BY SUBSEQUENT REPLACEMENT AND REPAIR, SHALL BE MADE GOOD AT THE EXPENSE OF THIS SUBCONTRACTOR. ALL REPAIR WORK SHALL BE DONE BY TRADES RESPONSIBLE FOR THE ORIGINAL WORK.                                                                                                                                                                                                                                                                                                                                   |
| 7. DRAWINGS                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 7.1.                                      | THE DRAWINGS SHOW THE APPROXIMATE LOCATION FOR SPECIAL APPARATUS AND THE MATERIALS THROUGHOUT THE BUILDING. THE ARRANGEMENT SHOWN ON THE DRAWING IS MORE OR LESS DIAGRAMMATIC AND AS SUCH APPROXIMATE ONLY, AND MAY BE ALTERED, AS APPROVED BY THE ENGINEER, TO MEET REQUIREMENTS OF THE APPARATUS, ETC., AND OF THE BUILDING. EACH SUBCONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL MEASUREMENTS FOR THEIR WORK THROUGHOUT, AND THEY SHALL ARRANGE THEIR PIPING, WIRING AND APPARATUS TO CONFORM TO THE ARCHITECTURAL AND STRUCTURAL DETAILS IN A SATISFACTORY MANNER AND SHALL CO-OPERATE WITH OTHER CONTRACTORS TO ENSURE THAT WORK SHALL MEET ALL REQUIREMENTS OF DIVERSE CONTRACTS. |
| 7.2.                                      | ITEMS SHOWN ON THE DRAWINGS BUT NOT SPECIFIED OR SPECIFIED BUT NOT SHOWN SHALL BE INCLUDED.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 7.3.                                      | ITEMS OBVIOUSLY REQUIRED TO PROVIDE A COMPLETE WORKING SYSTEM BUT NOT SPECIFIED NOR SHOWN SHALL BE INCLUDED.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 8. RESPONSIBILITY AND                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |



NOTES:

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| HVAC LEGEND |                                                                                       |
|-------------|---------------------------------------------------------------------------------------|
|             | SUPPLY, RETURN AIR DUCT UP (RECT)                                                     |
|             | SUPPLY, RETURN AIR DUCT DOWN (RECT)                                                   |
|             | SUPPLY, RETURN AIR DUCT UP (ROUND)                                                    |
|             | SUPPLY, RETURN AIR DUCT DOWN (ROUND)                                                  |
|             | EXISTING HVAC TO REMAIN                                                               |
|             | EXISTING HVAC TO BE REMOVED                                                           |
|             | SUPPLY, RETURN, EXHAUST AIR GRILLE                                                    |
|             | SIDE WALL GRILLE                                                                      |
|             | A- GRILLE/DIFFUSER TYPE<br>B- DIFFUSER NECK SIZE/GRILLE SIZE<br>C- AIR QUANTITY (CFM) |
|             | SENSOR AND ASSOCIATED CONTROL WIRING                                                  |
|             | EQUIPMENT/FIXTURE TAG                                                                 |
|             | BALANCE DAMPER                                                                        |
|             | DIRECTION OF AIR FLOW                                                                 |
|             | DOOR GRILLE                                                                           |
|             | TURNING VANES                                                                         |
|             | THERMOSTAT<br>EQUAL TO HONEYWELL TB8220U: 7-DAY<br>PROGRAMMABLE C/W AUTO CHANGEOVER   |
|             | TIME CLOCK                                                                            |
|             | ACOUSTIC LINED DUCT                                                                   |
|             | FIRE DAMPER                                                                           |
|             | GAS LINE                                                                              |
|             | GAS METER                                                                             |
|             | PIPE UP, PIPE DOWN                                                                    |
|             | SHUTOFF VALVE                                                                         |
|             | UNION                                                                                 |
|             | PIPE BREAK/CONTINUATION                                                               |

|     |                             |          |
|-----|-----------------------------|----------|
| 3   | ISSUED FOR PERMIT           | AUG 2026 |
| 2   | ISSUED FOR 90% COORDINATION | AUG 2026 |
| 1   | ISSUED FOR 50% COORDINATION | JUL 2026 |
| NO. | SUBMISSION                  | DATE     |

BOWMANVILLE HEALTH CLINIC  
222 KING STREET, BOWMANVILLE, ON

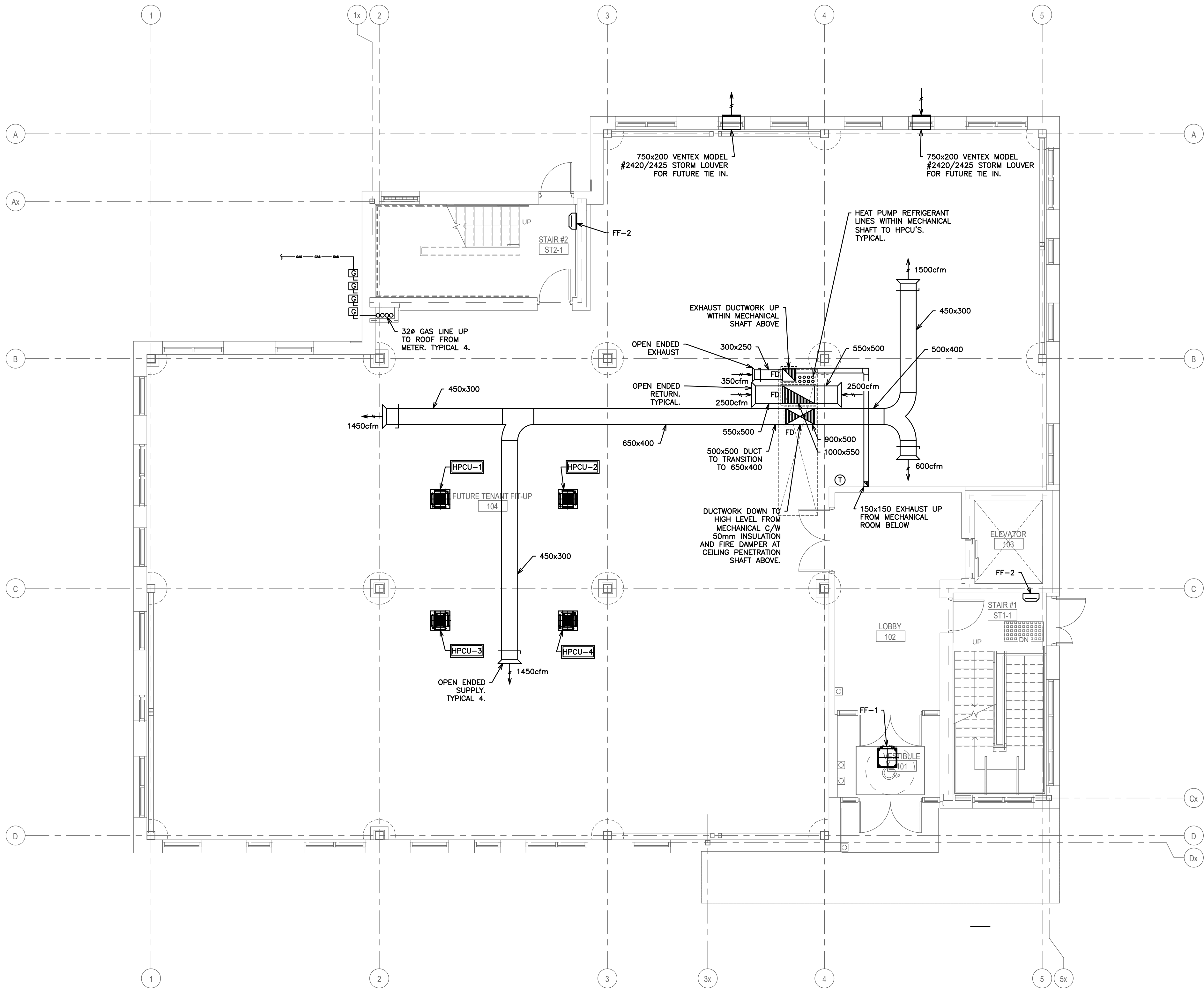
## MECHANICAL HVAC BASEMENT LAYOUT



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|                                                                                       |              |          |
|---------------------------------------------------------------------------------------|--------------|----------|
|  | SCALE:       | 1:75     |
|                                                                                       | DESIGNED BY: | B.C.A    |
|                                                                                       | CHECKED BY:  | G..V.W.O |
|                                                                                       | PROJECT NO.: | 125807   |
|                                                                                       | DRAWING NO.: | M2.1     |



NOTES:

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| HVAC LEGEND |                                                                                       |
|-------------|---------------------------------------------------------------------------------------|
|             | SUPPLY, RETURN AIR DUCT UP (RECT)                                                     |
|             | SUPPLY, RETURN AIR DUCT DOWN (RECT)                                                   |
|             | SUPPLY, RETURN AIR DUCT UP (ROUND)                                                    |
|             | SUPPLY, RETURN AIR DUCT DOWN (ROUND)                                                  |
|             | EXISTING HVAC TO REMAIN                                                               |
|             | EXISTING HVAC TO BE REMOVED                                                           |
|             | SUPPLY, RETURN, EXHAUST AIR GRILLE                                                    |
|             | SIDE WALL GRILLE                                                                      |
|             | A- GRILLE/DIFFUSER TYPE<br>B- DIFFUSER NECK SIZE/GRILLE SIZE<br>C- AIR QUANTITY (CFM) |
|             | SENSOR AND ASSOCIATED CONTROL WIRING                                                  |
|             | EQUIPMENT/FIXTURE TAG                                                                 |
|             | BALANCE DAMPER                                                                        |
|             | DIRECTION OF AIR FLOW                                                                 |
|             | DOOR GRILLE                                                                           |
|             | TURNING VANES                                                                         |
|             | THERMOSTAT<br>EQUAL TO HONEYWELL TB8220U: 7-DAY<br>PROGRAMMABLE C/W AUTO CHANGEOVER   |
|             | TIME CLOCK                                                                            |
|             | ACOUSTIC LINED DUCT                                                                   |
|             | FIRE DAMPER                                                                           |
|             | GAS LINE                                                                              |
|             | GAS METER                                                                             |
|             | PIPE UP, PIPE DOWN                                                                    |
|             | SHUTOFF VALVE                                                                         |
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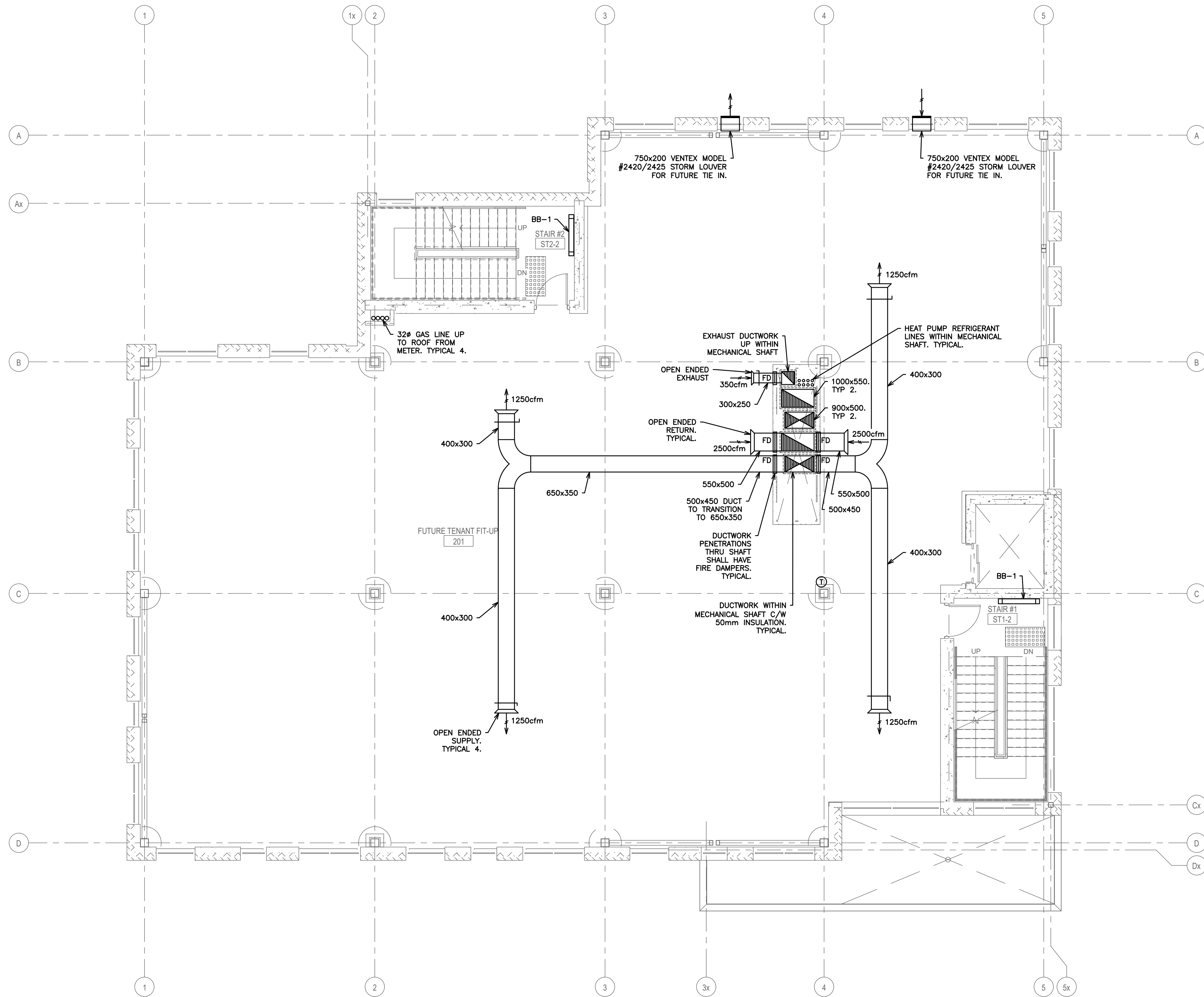
BOWMANVILLE HEALTH CLINIC  
222 KING STREET, BOWMANVILLE, ON

## MECHANICAL HVAC GROUND FLOOR

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|              |         |
|--------------|---------|
| SCALE:       | 1:75    |
| DESIGNED BY: | B.C.A   |
| CHECKED BY:  | G.V.W.O |
| PROJECT NO.: | 125807  |
| DRAWING NO.: | M2.2    |



NOTES:

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| HVAC LEGEND |                                                                                     |
|-------------|-------------------------------------------------------------------------------------|
|             | SUPPLY, RETURN AIR DUCT UP (RECT)                                                   |
|             | SUPPLY, RETURN AIR DUCT DOWN (RECT)                                                 |
|             | SUPPLY, RETURN AIR DUCT UP (ROUND)                                                  |
|             | SUPPLY, RETURN AIR DUCT DOWN (ROUND)                                                |
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|             | EXISTING HVAC TO BE REMOVED                                                         |
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|             | SIDE WALL GRILLE                                                                    |
|             | SENSOR AND ASSOCIATED CONTROL WIRING                                                |
|             | EQUIPMENT/FIXTURE TAG                                                               |
|             | BALANCE DAMPER                                                                      |
|             | DIRECTION OF AIR FLOW                                                               |
|             | DOOR GRILLE                                                                         |
|             | TURNING VANES                                                                       |
|             | THERMOSTAT<br>EQUAL TO HONEYWELL TB8220U: 7-DAY<br>PROGRAMMABLE C/W AUTO CHANGEOVER |
|             | TIME CLOCK                                                                          |
|             | ACOUSTIC LINED DUCT                                                                 |
|             | FIRE DAMPER                                                                         |
|             | GAS LINE                                                                            |
|             | GAS METER                                                                           |
|             | PIPE UP, PIPE DOWN                                                                  |
|             | SHUTOFF VALVE                                                                       |
|             | UNION                                                                               |
|             | PIPE BREAK/CONTINUATION                                                             |

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BOWMANVILLE HEALTH CLINIC  
222 KING STREET, BOWMANVILLE, ON

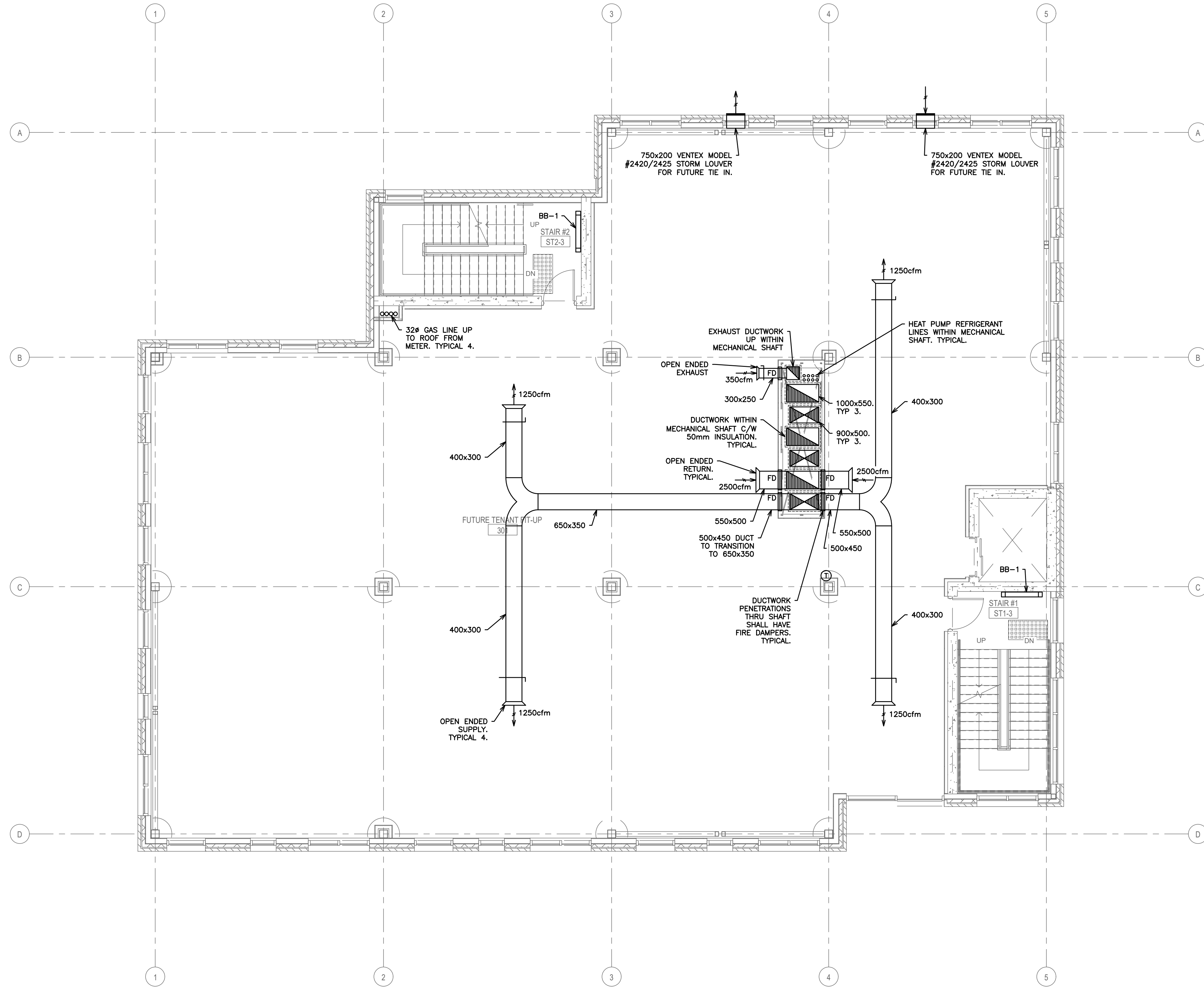
## MECHANICAL HVAC SECOND FLOOR

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|              |         |
|--------------|---------|
| SCALE:       | 1:75    |
| DESIGNED BY: | B.C.A   |
| CHECKED BY:  | G.V.W.O |
| PROJECT NO.: | 125807  |
| DRAWING NO.: | M2.3    |



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| HVAC LEGEND |                                                                                       |
|-------------|---------------------------------------------------------------------------------------|
|             | SUPPLY, RETURN AIR DUCT UP (RECT)                                                     |
|             | SUPPLY, RETURN AIR DUCT DOWN (RECT)                                                   |
|             | SUPPLY, RETURN AIR DUCT UP (ROUND)                                                    |
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|             | EQUIPMENT/FIXTURE TAG                                                                 |
|             | BALANCE DAMPER                                                                        |
|             | DIRECTION OF AIR FLOW                                                                 |
|             | DOOR GRILLE                                                                           |
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|             | TIME CLOCK                                                                            |
|             | ACOUSTIC LINED DUCT                                                                   |
|             | FIRE DAMPER                                                                           |
|             | GAS LINE                                                                              |
|             | GAS METER                                                                             |
|             | PIPE UP, PIPE DOWN                                                                    |
|             | SHUTOFF VALVE                                                                         |
|             | UNION                                                                                 |
|             | PIPE BREAK/CONTINUATION                                                               |

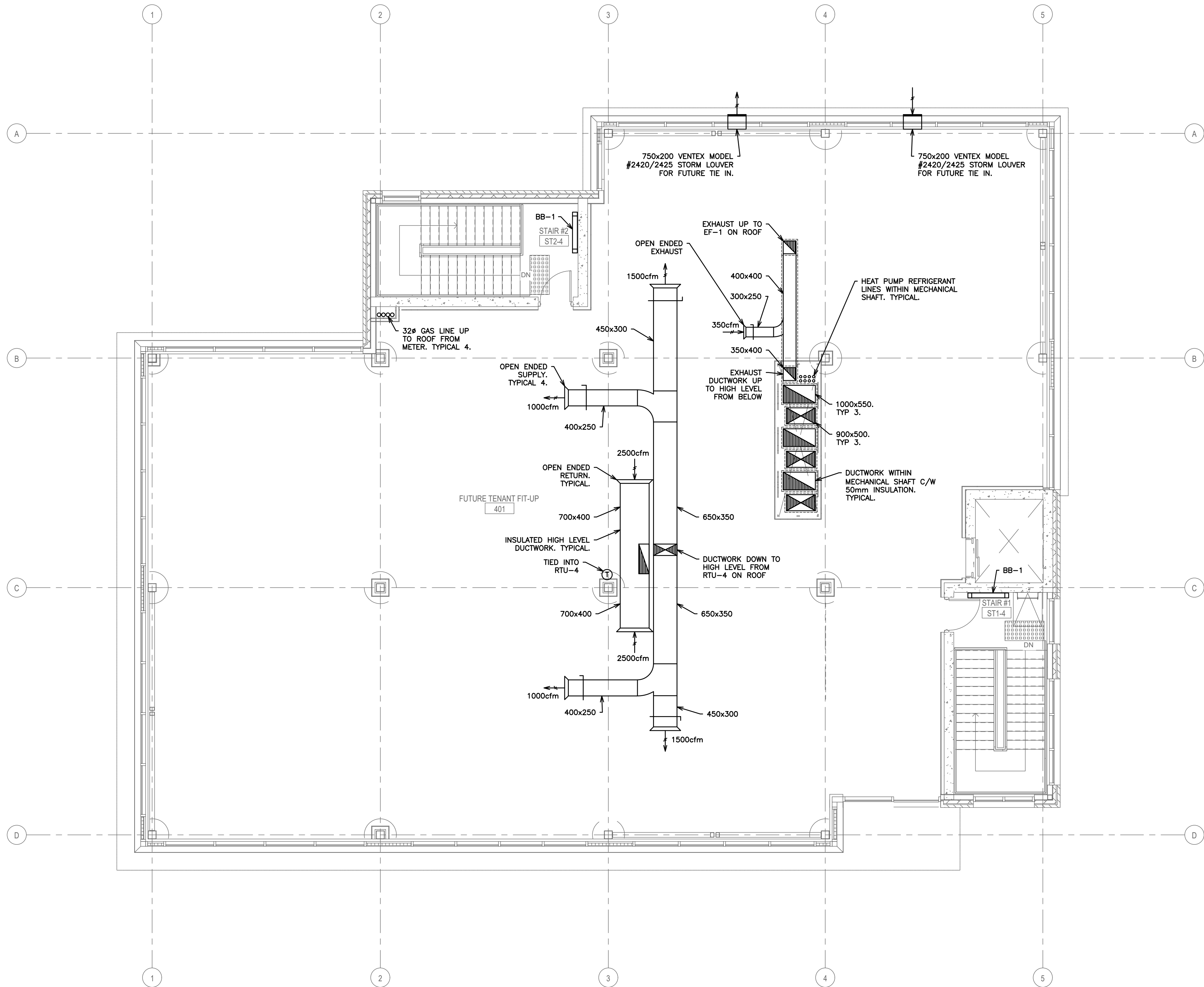
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| 3   | ISSUED FOR PERMIT           | AUG 2026 |
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BOWMANVILLE HEALTH CLINIC  
222 KING STREET, BOWMANVILLE, ON

## MECHANICAL HVAC THIRD FLOOR

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|  | SCALE:       | 1:75    |
|  | DESIGNED BY: | B.C.A   |
|  | CHECKED BY:  | G.V.W.O |
|  | PROJECT NO.: | 125807  |
|  | DRAWING NO.: | M2.4    |



NOTES:

- TENDERING OF THESE DOCUMENTS IS DONE UNDER THE MUTUAL UNDERSTANDING THAT ALL CONTRACTORS ARE EXPERIENCED AND LICENSED IN THE WORKS BEING PROVIDED AND THAT ALL COMPONENTS OF A FULLY FUNCTIONING SYSTEM WILL BE INCLUDED WHETHER SHOWN OR NOT SHOWN BUT IMPLIED FOR A COMPLETE SYSTEM.
- ALL DETAILS SHOWN ARE SCHEMATIC BY NATURE AND ARE TO BE USED FOR SCOPE OF WORK PURPOSES ONLY. COORDINATE WITH ALL TRADES AND MANUFACTURERS BEST PRACTICES AND DIRECTIONS.
- COORDINATE ALL ADDITIONAL PROVISIONS INCLUDING, BUT NOT LIMITED TO: COMBUSTION AIR AND VENTILATION AIR WITH GENERAL CONTRACTOR DURING TENDER PERIOD.

| HVAC LEGEND |                                                                                       |
|-------------|---------------------------------------------------------------------------------------|
|             | SUPPLY, RETURN AIR DUCT UP (RECT)                                                     |
|             | SUPPLY, RETURN AIR DUCT DOWN (RECT)                                                   |
|             | SUPPLY, RETURN AIR DUCT UP (ROUND)                                                    |
|             | SUPPLY, RETURN AIR DUCT DOWN (ROUND)                                                  |
|             | EXISTING HVAC TO REMAIN                                                               |
|             | EXISTING HVAC TO BE REMOVED                                                           |
|             | SUPPLY, RETURN, EXHAUST AIR GRILLE                                                    |
|             | SIDE WALL GRILLE                                                                      |
|             | A- GRILLE/DIFFUSER TYPE<br>B- DIFFUSER NECK SIZE/GRILLE SIZE<br>C- AIR QUANTITY (CFM) |
|             | SENSOR AND ASSOCIATED CONTROL WIRING                                                  |
|             | EQUIPMENT/FIXTURE TAG                                                                 |
|             | BALANCE DAMPER                                                                        |
|             | DIRECTION OF AIR FLOW                                                                 |
|             | DOOR GRILLE                                                                           |
|             | TURNING VANES                                                                         |
|             | THERMOSTAT<br>EQUAL TO HONEYWELL TB8220U: 7-DAY<br>PROGRAMMABLE C/W AUTO CHANGEOVER   |
|             | TIME CLOCK                                                                            |
|             | ACOUSTIC LINED DUCT                                                                   |
|             | FIRE DAMPER                                                                           |
|             | GAS LINE                                                                              |
|             | GAS METER                                                                             |
|             | PIPE UP, PIPE DOWN                                                                    |
|             | SHUTOFF VALVE                                                                         |
|             | UNION                                                                                 |
|             | PIPE BREAK/CONTINUATION                                                               |

|     |                             |          |
|-----|-----------------------------|----------|
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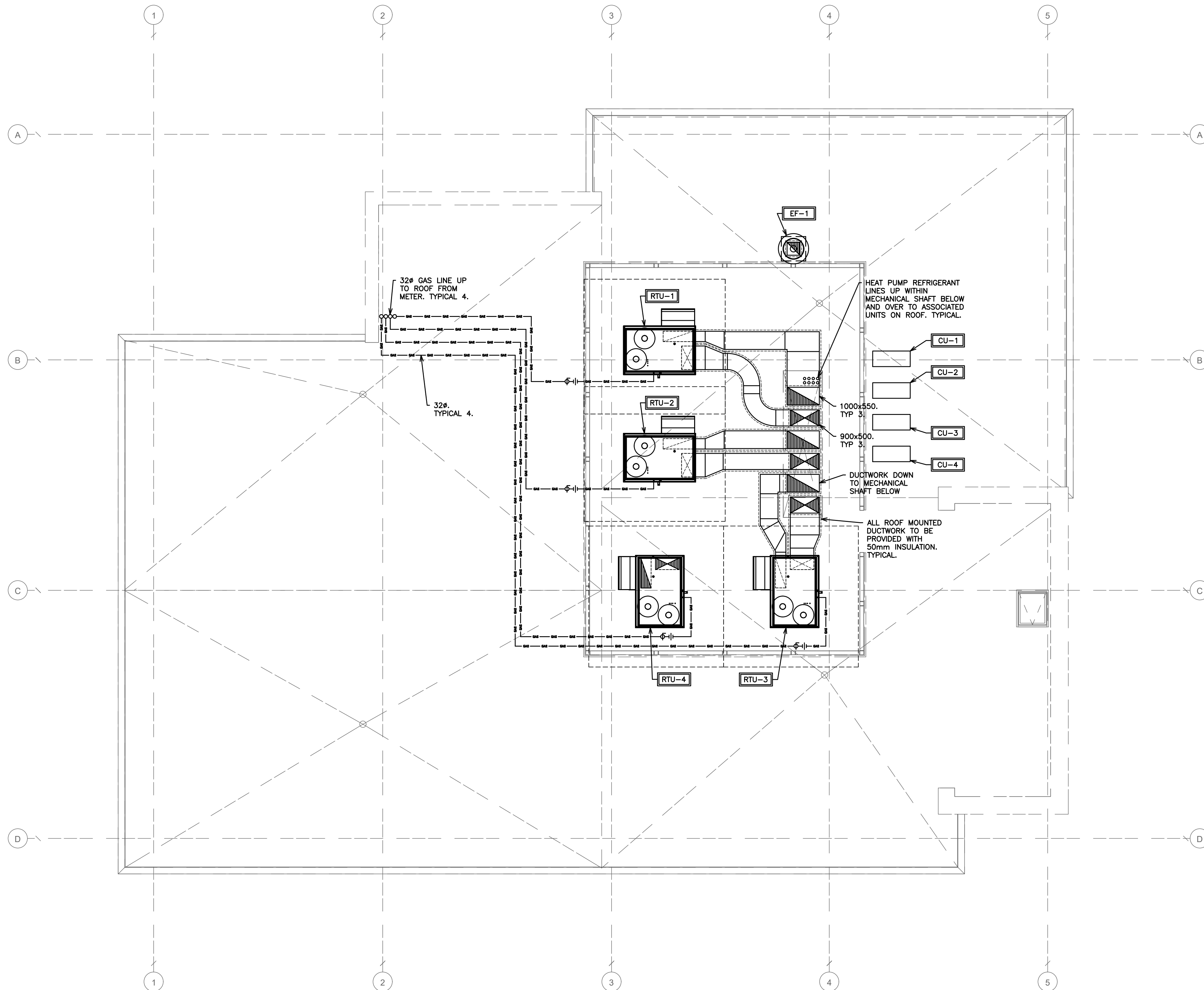
BOWMANVILLE HEALTH CLINIC  
222 KING STREET, BOWMANVILLE, ON

## MECHANICAL HVAC FOURTH FLOOR

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|                     |             |
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|                     | SCALE: 1:75 |
| DESIGNED BY: B.C.A  |             |
| CHECKED BY: G.V.W.O |             |
| PROJECT NO.: 125807 |             |
| DRAWING NO.: M2.5   |             |



- NOTES:
- TENDERING OF THESE DOCUMENTS IS DONE UNDER THE MUTUAL UNDERSTANDING THAT ALL CONTRACTORS ARE EXPERIENCED AND LICENSED IN THE WORKS BEING PROVIDED AND THAT ALL COMPONENTS OF A FULLY FUNCTIONING SYSTEM WILL BE INCLUDED WHETHER SHOWN OR NOT SHOWN BUT IMPLIED FOR A COMPLETE SYSTEM.
  - ALL DETAILS SHOWN ARE SCHEMATIC BY NATURE AND ARE TO BE USED FOR SCOPE OF WORK PURPOSES ONLY. COORDINATE WITH ALL TRADES AND MANUFACTURERS BEST PRACTICES AND DIRECTIONS.
  - COORDINATE ALL ADDITIONAL PROVISIONS INCLUDING, BUT NOT LIMITED TO, COMBUSTION AIR AND VENTILATION AIR WITH GENERAL CONTRACTOR DURING TENDER PERIOD.

| HVAC LEGEND |                                                                                       |
|-------------|---------------------------------------------------------------------------------------|
|             | SUPPLY, RETURN AIR DUCT UP (RECT)                                                     |
|             | SUPPLY, RETURN AIR DUCT DOWN (RECT)                                                   |
|             | SUPPLY, RETURN AIR DUCT UP (ROUND)                                                    |
|             | SUPPLY, RETURN AIR DUCT DOWN (ROUND)                                                  |
|             | EXISTING HVAC TO REMAIN                                                               |
|             | EXISTING HVAC TO BE REMOVED                                                           |
|             | SUPPLY, RETURN, EXHAUST AIR GRILLE                                                    |
|             | SIDE WALL GRILLE                                                                      |
|             | A- GRILLE/DIFFUSER TYPE<br>B- DIFFUSER NECK SIZE/GRILLE SIZE<br>C- AIR QUANTITY (CFM) |
|             | SENSOR AND ASSOCIATED CONTROL WIRING                                                  |
|             | EQUIPMENT/FIXTURE TAG                                                                 |
|             | BALANCE DAMPER                                                                        |
|             | DIRECTION OF AIR FLOW                                                                 |
|             | DOOR GRILLE                                                                           |
|             | TURNING VANES                                                                         |
|             | THERMOSTAT<br>EQUAL TO HONEYWELL TB8220U: 7-DAY<br>PROGRAMMABLE C/W AUTO CHANGEOVER   |
|             | TIME CLOCK                                                                            |
|             | ACOUSTIC LINED DUCT                                                                   |
|             | FIRE DAMPER                                                                           |
|             | GAS LINE                                                                              |
|             | GAS METER                                                                             |
|             | PIPE UP, PIPE DOWN                                                                    |
|             | SHUTOFF VALVE                                                                         |
|             | UNION                                                                                 |
|             | PIPE BREAK/CONTINUATION                                                               |

|     |                             |          |
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BOWMANVILLE HEALTH CLINIC  
222 KING STREET, BOWMANVILLE, ON

## MECHANICAL HVAC ROOF LAYOUT



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| SCALE:       | 1:75    |
| DESIGNED BY: | B.C.A   |
| CHECKED BY:  | G.V.W.O |
| PROJECT NO.: | 125807  |
| DRAWING NO.: | M2.6    |

HVAC NOTES

1. GENERAL
- 1.1. COORDINATE EXACT LOCATION OF GRILLES AND DIFFUSERS WITH REFLECTED CEILING PLAN OR LIGHTING PLAN IF AVAILABLE. LIGHTING LOCATIONS TAKE PRIORITY.
- 1.2. CONFIRM EXACT LOCATION OF THERMOSTATS/SENSORS WITH OWNER. MOUNT THERMOSTATS/SENSORS AT 4' ABOVE FINISHED FLOOR. ENSURE THERMOSTAT/SENSOR LOCATIONS WILL NOT BE AFFECTED BY DIRECT SUNLIGHT, COLD WALLS OR MILLWORK.
- 1.3. PROVIDE 4" FLEXIBLE CONNECTIONS AT ALL DUCT CONNECTIONS TO AIR HANDLING UNITS.
- 1.4. PROVIDE ACOUSTIC INSULATION IN FIRST 5' OF SUPPLY AND RETURN AIR DUCTS OFF AIR HANDLING UNITS AND AS INDICATED ON DRAWINGS.
- 1.5. PROVIDE EXTERNAL INSULATION ON ALL SUPPLY AIR DUCTS AND ON ALL EXHAUST DUCTS WITHIN 10' OF OUTSIDE WALLS AND ROOF.
- 1.6. BRANCH DUCTWORK TO DIFFUSERS TO BE SAME SIZE AS DIFFUSER NECK.
- 1.7. PROVIDE TURNING VANES IN ALL SQUARE ELBOWS FOR SUPPLY AIR DUCTS.
- 1.8. FLEXIBLE DUCT SHALL BE MAXIMUM 10' IN LENGTH AND SHALL BE SECURELY FASTENED TO DUCTS AND DIFFUSERS. PROVIDE HANGERS AND FLEXIBLE DUCTWORK WITHOUT SHARP 90'S, SAGGING, OR CRUSHING OF DUCT.
- 1.9. PROVIDE TRAP AT OUTLET OF DRAIN FOR ROOFTOP HVAC EQUIPMENT
- 1.10. PROVIDE FIRE STOPPING AROUND OPENINGS THROUGH FIRE SEPARATIONS.
2. FIRE DAMPERS
- 2.0. PROVIDE FIRE DAMPERS AT ALL FIRE SEPARATIONS. FIRE DAMPERS SHALL BE C/W LINKAGE OUT OF THE AIR STREAM. FIRE DAMPER
- RATING TO MATCH THE RATING OF THE SEPARATION CROSSED. INSTALLATION MUST CONFORM TO LATEST NFPA/CSA 90A SPECIFICATIONS. ONLY USE UL APPROVED EQUIPMENT. PROVIDE DUCT ACCESS DOORS AND BREAK AWAY FLANGES FOR ALL FIRE DAMPERS IN CONFORMANCE WITH CODE AND INSTALLATION INSTRUCTIONS.
3. TESTS AND BALANCING
- 3.1. BALANCING DAMPERS SHALL BE INSTALLED AT ALL TAKE-OFFS FROM BRANCH DUCTS, AND ALL BRANCH DUCT CONNECTIONS TO MAIN DUCTS. BALANCING DAMPERS SHALL BE MANUALLY OPERATED OPPOSED BLADE TYPE, SPLITTER TYPE OR BUTTERFLY TYPE, COMPLETE WITH LOCKING QUADRANT OPERATOR.
- 3.2. AIR TEST AND BALANCE SHALL BE PERFORMED BY AN INDEPENDENT AIR BALANCING COMPANY. THE AIR BALANCING COMPANY SHALL BE APPROVED BY THE ENGINEER.
- 3.3. SCOPE OF BALANCING WORK:
- 3.3.1. ALL LISTED AIR HANDLING SYSTEMS SHALL BE BALANCED TO WITHIN 5% OF THE NOTED DESIGN AIR VOLUMES AS PER PLANS AND SPECIFICATIONS.
- 3.3.2. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING THE HVAC SYSTEM FULLY OPERATIONAL TWO WEEKS BEFORE TURNOVER TO THE OWNER. THIS WILL INCLUDE THE REQUIREMENT TO INSTALL CLEAN FILTERS IN ALL RELATED HVAC EQUIPMENT BEFORE TIME OF AIR TESTING AND TO MAKE ALL AIR SYSTEMS FULLY OPERATIONAL.
4. MATERIALS
- 4.1. DUCTWORK
- 4.1.1. IN CONFORMANCE WITH SMACNA, ASHRAE, OBC, NFPA 90A
- 4.1.2. SHEET METAL SHALL BE BEST QUALITY LOCK FORMING GALVANIZED SHEET METAL, GALVANIZING SHALL BE TO ASTM A525 (590), HAVING A THICKNESS OF 0.054mm AND WEIGHING NOT LESS THAN 0.31kg/m<sup>2</sup> ON EACH SURFACE.
- 4.1.3. PROVIDE INSTRUMENTATION TEST PORTS IN DUCTS FOR PILOT TUBE INSERTION WITH CAM-ACTION HANDLE, MOULDED NEOPRENE GASKET AND EXPANSION PLUG, ZINC COATED STEEL CONSTRUCTION.
- 4.2. FLEXIBLE CONNECTIONS
- 4.2.1. PROVIDE FLEXIBLE CONNECTIONS AT AIR HANDLING UNITS WITH UL APPROVED FABRIC OF 6" MINIMUM WIDTH AND WEIGHING NOT LESS THAN 0.8136kg/m<sup>2</sup>.
- 4.3. INSULATION
- 4.3.1. PROVIDE 1" INTERNAL ACOUSTIC INSULATION ON:
- 4.3.1.1. THE FIRST 5' OFF SUPPLY AND RETURN DUCTS OFF ALL AIR HANDLING UNITS.
- 4.3.2. PROVIDE 1" EXTERNAL INSULATION ON:
- 4.3.2.1. ALL INDOOR & OUTDOOR REFRIGERATION PIPING
- 4.3.2.2. ALL SUPPLY AIR DUCTS WHICH ARE NOT LOCATED IN A RETURN AIR PLENUM.
- 4.3.2.3. EXHAUST DUCTS THROUGH ATTICS AND 10' BACK FROM WALL.
- 4.3.3. PROVIDE 2" EXTERNAL INSULATION ON:
- 4.3.3.1. ALL SUPPLY AND RETURN AIR DUCTS THROUGH ATTICS OR UN-INSULATED AREAS
5. CONTROL WIRING
- 5.1. ALL CONTROL WIRING SHALL BE RUN PARALLEL TO BUILDING LINES AND TIGHT TO ROOF DECK OR WALLS.
- 5.2. ALL CONCEALED INDOOR CONTROL WIRING SHALL BE RUN IN LVT.
- 5.3. ALL EXPOSED INDOOR CONTROL WIRING IN UNFINISHED AREAS, T-BAR CEILING SPACES, ATTICS AND CRAWL SPACES SHALL BE RUN IN EMT CONDUIT WITH FINAL CONNECTION IN BX TO EQUIPMENT/COMPONENTS.
- 5.4. ALL OUTDOOR CONTROL WIRING SHALL BE RUN IN LIQUIDTIGHT, AS25 (590), HAVING A THICKNESS OF 0.054mm AND WEIGHING NOT LESS THAN 0.31kg/m<sup>2</sup> ON EACH SURFACE.
- 5.5. FLEXIBLE CABLE MUST BE STRAPPED TO SUPPORT WITHIN 12" OF TERMINATION BOX OR EQUIPMENT.

MAKE-UP AIR UNIT SCHEDULE

| TAG   | LOCATION | MANUFACTURER | MODEL                                     | AIR FLOW | HEATING INPUT | COOLING    | FRESH AIR | VOLTAGE | OPERATING WEIGHT | CONTROLS AND ACCESSORIES                                                                                       |
|-------|----------|--------------|-------------------------------------------|----------|---------------|------------|-----------|---------|------------------|----------------------------------------------------------------------------------------------------------------|
| RTU-1 | ROOF     | CARRIER      | 48FEFM14A3A1-BB0A0 (HORIZONTAL DISCHARGE) | 5000 CFM | 250 MBH       | 156.71 MBH | 1000 CFM  | 575/3PH | 1364 lbs         | - LOW LEAK TEMP ECONOMIZERONE WITH BAROMETRIC RELIEF<br>- 24-inch TALL ROOF CURB<br>- COMFORT PRO PROGRAMMABLE |
| RTU-2 | ROOF     | CARRIER      | 48FEFM14A3A1-BB0A0 (HORIZONTAL DISCHARGE) | 5000 CFM | 250 MBH       | 156.71 MBH | 1000 CFM  | 575/3PH | 1364 lbs         | - LOW LEAK TEMP ECONOMIZERONE WITH BAROMETRIC RELIEF<br>- 24-inch TALL ROOF CURB<br>- COMFORT PRO PROGRAMMABLE |
| RTU-3 | ROOF     | CARRIER      | 48FEFM14A3A1-BB0A0 (HORIZONTAL DISCHARGE) | 5000 CFM | 250 MBH       | 156.71 MBH | 1000 CFM  | 575/3PH | 1364 lbs         | - LOW LEAK TEMP ECONOMIZERONE WITH BAROMETRIC RELIEF<br>- 24-inch TALL ROOF CURB<br>- COMFORT PRO PROGRAMMABLE |
| RTU-4 | ROOF     | CARRIER      | 48FEFM14A3A1-BB0A0 (HORIZONTAL DISCHARGE) | 5000 CFM | 250 MBH       | 156.71 MBH | 1000 CFM  | 575/3PH | 1364 lbs         | - LOW LEAK TEMP ECONOMIZERONE WITH BAROMETRIC RELIEF<br>- 24-inch TALL ROOF CURB<br>- COMFORT PRO PROGRAMMABLE |

HEAT PUMP UNIT SCHEDULE

| TAGS            | MANUFACTURER | MODELS                        | COOLING | HEATING | HEATING @-25C | ELECTRICAL | NOTES                 |
|-----------------|--------------|-------------------------------|---------|---------|---------------|------------|-----------------------|
| HPCU-1/<br>CU-1 | DAIKIN       | SLZ-KF15NA1 & SUZ-KA15NAHZ-TH | 15 MBH  | 20 MBH  | 6.5 MBH       | 208V/1PH   | ULTRA-LOW AMBIENT KIT |
| HPCU-2/<br>CU-2 | DAIKIN       | SLZ-KF15NA1 & SUZ-KA15NAHZ-TH | 15 MBH  | 20 MBH  | 6.5 MBH       | 208V/1PH   | ULTRA-LOW AMBIENT KIT |
| HPCU-3/<br>CU-3 | DAIKIN       | SLZ-KF15NA1 & SUZ-KA15NAHZ-TH | 15 MBH  | 20 MBH  | 6.5 MBH       | 208V/1PH   | ULTRA-LOW AMBIENT KIT |
| HPCU-4/<br>CU-4 | DAIKIN       | SLZ-KF15NA1 & SUZ-KA15NAHZ-TH | 15 MBH  | 20 MBH  | 6.5 MBH       | 208V/1PH   | ULTRA-LOW AMBIENT KIT |

EXHAUST FAN SCHEDULE

| TAG  | LOCATION | MANUFACTURER | MODEL         | AIR FLOW | MOUNTING | VOLTAGE | CONTROLS   |
|------|----------|--------------|---------------|----------|----------|---------|------------|
| EF-1 | ROOF     | GREENHECK    | GB-130-VG-1/2 | 1500 CFM | ROOF     | 208V    | TIME CLOCK |

ELECTRIC UNIT HEATER SCHEDULE

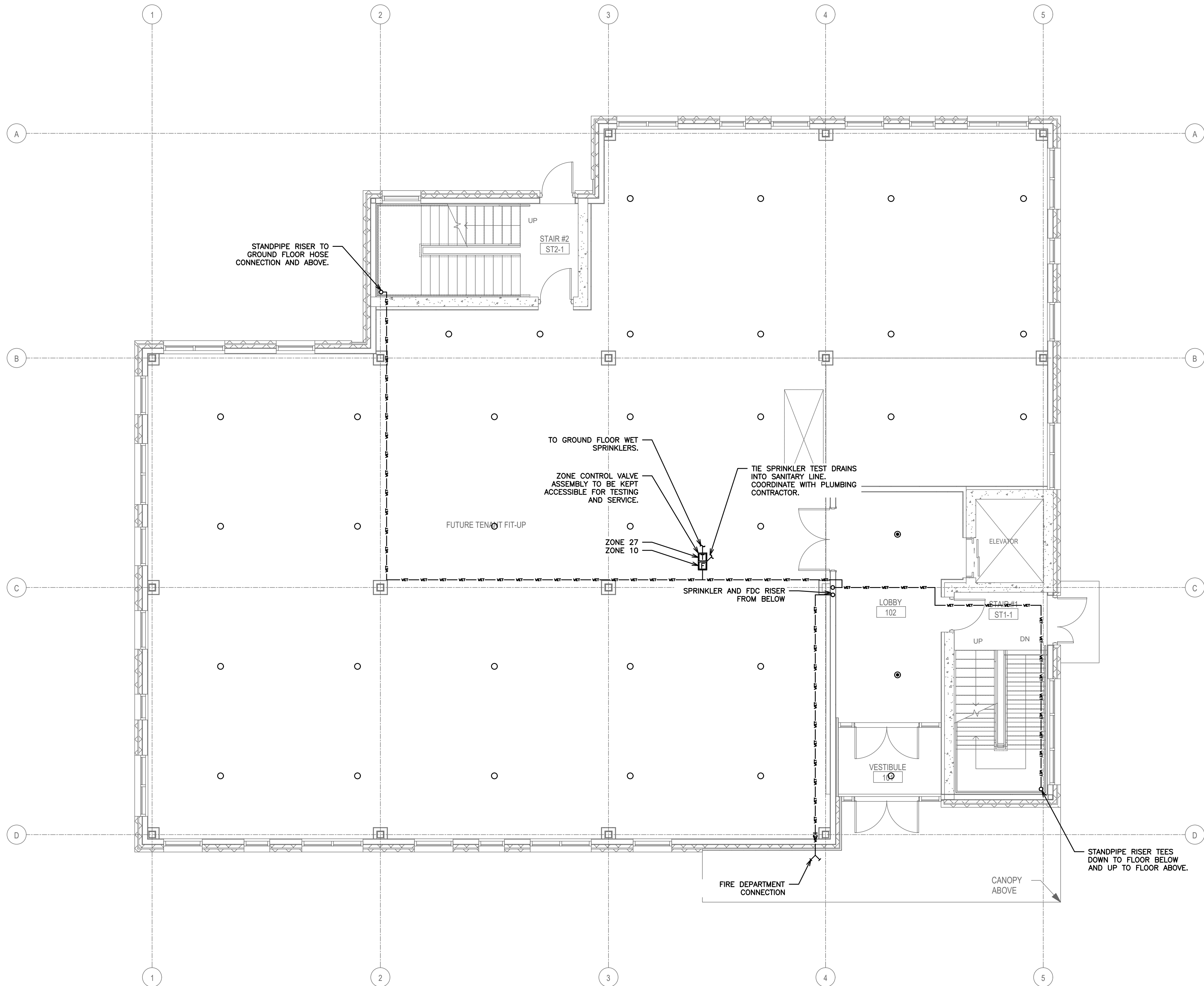
| TAG  | MANUFACTURER | MODEL | MOUNTING  | HEATING | VOLTAGE |
|------|--------------|-------|-----------|---------|---------|
| UH-1 | REZNOR       | EUH-7 | SUSPENDED | 7.5 kW  | 208V    |

GENERAL REQUIREMENTS FOR MECHANICAL WORK

1. SCOPE OF WORK
- 1.1. CONFORM TO THE APPLICABLE PROVISIONS OF THE GENERAL CONDITIONS OF THE CONTRACT.
- 1.2. THE GENERAL MECHANICAL SPECIFICATIONS SHALL APPLY TO AND BE PART OF EACH OF THE SECTIONS COVERING THE MECHANICAL TRADES WORK.
- 1.3. COMPLY WITH THE REQUIREMENTS OF THE CURRENT EDITION OF THE O.B.C., ALL OTHER APPLICABLE CODES, REGULATIONS, BY-LAWS AND OFFICIAL STANDARDS ACCORDING TO THE REQUIREMENTS AND INTERPRETATIONS OF THE AUTHORITIES HAVING JURISDICTION. THESE CODES AND STANDARDS CONSTITUTE AN INTEGRAL PART OF THESE SPECIFICATIONS. IN CASE OF CONFLICT, THE CODES TAKE PRECEDENCE OVER THE CONTRACT DOCUMENTS.
2. EXAMINATION OF SITE AND INFORMATION
- 2.1. EACH SUBCONTRACTOR, BEFORE PRICING, SHALL EXAMINE THE SITE, THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND THEY SHALL FAMILIARIZE THEMSELVES WITH THE BUILDING CONSTRUCTION AND FINISH IN ORDER THAT THEIR TENDER MAY INCLUDE EVERYTHING NECESSARY FOR THE PROPER COMPLETION OF THE WORK.
3. RELATIONSHIP TO OTHER TRADES
- 3.1. THIS SUBCONTRACTOR SHALL CONFER WITH ALL OTHER CONTRACTORS INSTALLING EQUIPMENT, PIPING, OTHER WORK, FOUNDATIONS, ETC., WHICH MAY AFFECT THEIR INSTALLATION, AND THEY SHALL ARRANGE THEIR EQUIPMENT, PIPING, ETC., IN PROPER RELATION WITH OTHER APPARATUS, AND WITH THE BUILDING CONSTRUCTION. THIS SUBCONTRACTOR SHALL ALSO CONFIRM THE ELECTRICAL CHARACTERISTICS OF THE PROJECT AND ORDER EQUIPMENT ACCORDINGLY.
- 3.2. SPECIAL CARE SHALL BE TAKEN IN THE INSTALLATION OF ALL WORK TO SEE THAT THEY ALL COME WITHIN THE LIMITS ESTABLISHED BY THE FINISH LINES OF ALL WALLS, FLOORS, CEILINGS, ETC.
- 3.3. THIS SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR AND OTHER SUBCONTRACTORS WHO ARE CONCERNED, OF ALL OPENINGS, FOUNDATION WORK, HANGERS, INSERTS, ANCHORS, OR OTHER PROVISIONS NECESSARY IN THEIR WORK FOR THE INSTALLATION OF THE SUBCONTRACTORS WORK, AND THEY SHALL FURNISH ALL INFORMATION AND NECESSARY MATERIALS IN AMPLE TIME SO THAT PROPER PROVISIONS CAN BE MADE FOR SAME, AND SHALL SUPPLY AND CORRECTLY AND
4. REQUIREMENTS OF INSPECTION DEPARTMENTS
- 4.1. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH ALL LAWS AND REGULATIONS OF ALL AUTHORITIES HAVING JURISDICTION IN EACH CASE, PARTICULARLY ALL AFFECTED DEPARTMENTS OF THE MUNICIPALITY AND PROVINCE. ELECTRICAL EQUIPMENT SUPPLIED MUST CONFORM TO THE REGULATIONS OF CSA AND THE LOCAL UTILITY. ANYTHING NECESSARY TO MAKE THE WORK COMPLY WITH THESE REQUIREMENTS SHALL BE PROVIDED BY THIS SUBCONTRACTOR WITHOUT ADDITIONAL COST TO THE OWNERS IF IT REASONABLY COULD HAVE BEEN FORESEEN WHEN TENDERING. EACH SUBCONTRACTOR SHALL PREPARE DRAWINGS IN ADDITION TO ENGINEER'S DRAWINGS AS MAY BE REQUIRED BY VARIOUS INSPECTION DEPARTMENTS HAVING JURISDICTION, AND OBTAIN THEIR APPROVAL BEFORE PROCEEDING WITH THE 7. WORK.
- 4.2. IN THE EVENT THAT THE INSPECTION DEPARTMENT'S REQUEST DEVIATES FROM THE ENGINEER'S LAYOUT, THE SUBCONTRACTOR SHALL CONSULT ENGINEER BEFORE PROCEEDING WITH THE SAME. IT SHALL BE NOTED THAT ENGINEER'S DRAWINGS ARE GENERALLY ACCEPTABLE TO INSPECTION DEPARTMENTS AND MINOR SUPPLEMENTS NEED ONLY BE MADE BY SUBCONTRACTORS.
5. CERTIFICATES, PERMITS, FEES
- 5.1. SUBCONTRACTORS SHALL GIVE ALL NECESSARY NOTICES, OBTAIN ALL REQUIRED PERMITS AND PAY ALL FEES INCLUDING PAYMENT FOR STREET CONNECTIONS TO STORM, SANITARY, WATER AND GAS IN ORDER THAT THE WORK HEREIN SPECIFIED MAY BE CARRIED OUT AND THEY SHALL FURNISH ANY CERTIFICATES NEEDED AS EVIDENCE THAT THE WORK
6. GUARANTEE
- 6.1. THIS SUBCONTRACTOR SHALL GUARANTEE ALL MATERIAL AND WORKMANSHIP USED IN THE WORK TO BE IN STRICT ACCORDANCE WITH THE SPECIFICATIONS, OF BEST QUALITY AND TYPE OBTAINABLE TO GIVE FIRST-CLASS CONSTRUCTION AND PROPER EFFICIENT OPERATION, AND FREE FROM ANY DEFECTS. ANY SUCH DEFECTS WHICH MAY



26/09/2026  
\\STAFF\JOB FILES\125807\125807 222 KING STREET EAST - BOWMANVILLE HEALTH CT CLINIC EXPANSION\125807 DRAWINGS\125807 MECHANICAL\PHASE 2 - M3  
26/09/2026



#### SPRINKLER INSTALLATION, COORDINATION & PLANS REVIEWER NOTES:

1. SPRINKLER HEAD LAYOUT SHOWN FOR SCHEMATIC PURPOSES ONLY. THE SPRINKLER CONTRACTOR IS REQUIRED TO DESIGN AND INSTALL A COMPLETE SPRINKLER SYSTEM IN CONFORMANCE WITH NFPA 13-2022 UNDER BASE CONTRACT.
2. DESIGN DRAWINGS TO INCLUDE ALL PIPING COMPLETE WITH SIZES, VALVES, ASSOCIATED COMPONENTS AND HYDRAULIC CALCULATIONS.
3. NO EXTRA TO BE PROVIDED FOR ADDITIONAL SPRINKLER HEAD REQUIREMENTS. SPRINKLER HEADS SHOWN FOR SCHEMATIC PURPOSES ONLY. THE SPRINKLER CONTRACTOR IS REQUIRED TO DESIGN AND INSTALL A COMPLETE SPRINKLER SYSTEM.
4. COORDINATE SHARED SPACES WITH GAS PIPING, HVAC DUCTWORK AND PLUMBING PIPING.
5. CLEARANCES TO BUILDING SERVICES/EQUIPMENT INCLUDING LIGHTING FIXTURES AND HVAC SYSTEMS SHALL BE IN CONFORMANCE WITH NFPA 13-2022 REQUIREMENTS.
6. REFER TO DETAIL FOR SUGGESTED FIRE STOPPING OF PIPING THROUGH FIRE SEPARATIONS.
7. TENDERING OF THESE DOCUMENTS IS DONE UNDER THE MUTUAL UNDERSTANDING THAT ALL CONTRACTORS ARE EXPERIENCED AND LICENSED IN THE WORKS BEING PROVIDED AND THAT ALL COMPONENTS OF A FULLY FUNCTIONING SYSTEM WILL BE INCLUDED WHETHER SHOWN OR NOT SHOWN BUT IMPLIED FOR A COMPLETE SYSTEM.
8. ALL DETAILS SHOWN ARE SCHEMATIC BY NATURE AND ARE TO BE USED FOR SCOPE OF WORK PURPOSES ONLY. COORDINATE WITH ALL TRADES AND MANUFACTURER'S BEST PRACTICES AND DIRECTIONS.
9. ALL VALVES TO BE SUPERVISED BY FIRE ALARM SYSTEM AND LABELED TO MATCH FIRE ALARM SYSTEM. CONTRACTOR IS RESPONSIBLE FOR FINAL COORDINATION OF ZONE NUMBERING WITH FIRE ALARM CONTRACTOR.
10. SPRINKLER SYSTEM HYDRAULIC CALCULATIONS AND FINAL LAYOUT IS TO BE PROVIDED IN THE SHOP DRAWING PHASE OF THE PROJECT. IT WILL BE CIRCULATED TO THE CITY AND ENGINEER OF RECORD FOR REVIEW AND APPROVAL.
11. FIRE HOSE STANDPIPE VALVES PROPOSED IN STAIRWELLS. FINAL SPRINKLER LAYOUT SHOP DRAWINGS BY CONTRACTOR SHALL ENSURE THEY ARE NOT POSITIONED IN APPROPRIATE LOCATION.
12. CONTRACTOR SHALL DETERMINE BEST ROUTING OF SPRINKLER PIPING BY COORDINATING WITH ALL DRAWINGS. COORDINATE WITH ALL OTHER TRADES ON SITE PRIOR TO INSTALLATION OF PIPING.
13. ALL REQUIRED CUTTING AND CORING BY SPRINKLER CONTRACTOR. ALL PATCHING BY GENERAL CONTRACTOR.

#### SPRINKLER LEGEND

|                   |                                                     |
|-------------------|-----------------------------------------------------|
| —WET—WET—WET—WET— | SPRINKLER LINE (WET)                                |
| —O—O—O—O—O—       | PIPE UP, BRANCH DROPPING FROM TEE, PIPE DOWN        |
| ●                 | SEMI-RECESSED PENDENT SPRINKLER HEAD C/W ESCUTCHEON |
| ○                 | UPRIGHT SPRINKLER HEAD                              |
| ▲                 | SIDEWALL SPRINKLER HEAD                             |

|     |                             |          |
|-----|-----------------------------|----------|
| 2.  | ISSUED FOR PERMIT           | AUG 2026 |
| 1.  | ISSUED FOR 90% COORDINATION | AUG 2026 |
| NO. | SUBMISSION                  | DATE     |

BOWMANVILLE HEALTH CLINIC  
222 KING STREET, BOWMANVILLE, ON

## FIRE PROTECTION GROUND FLOOR



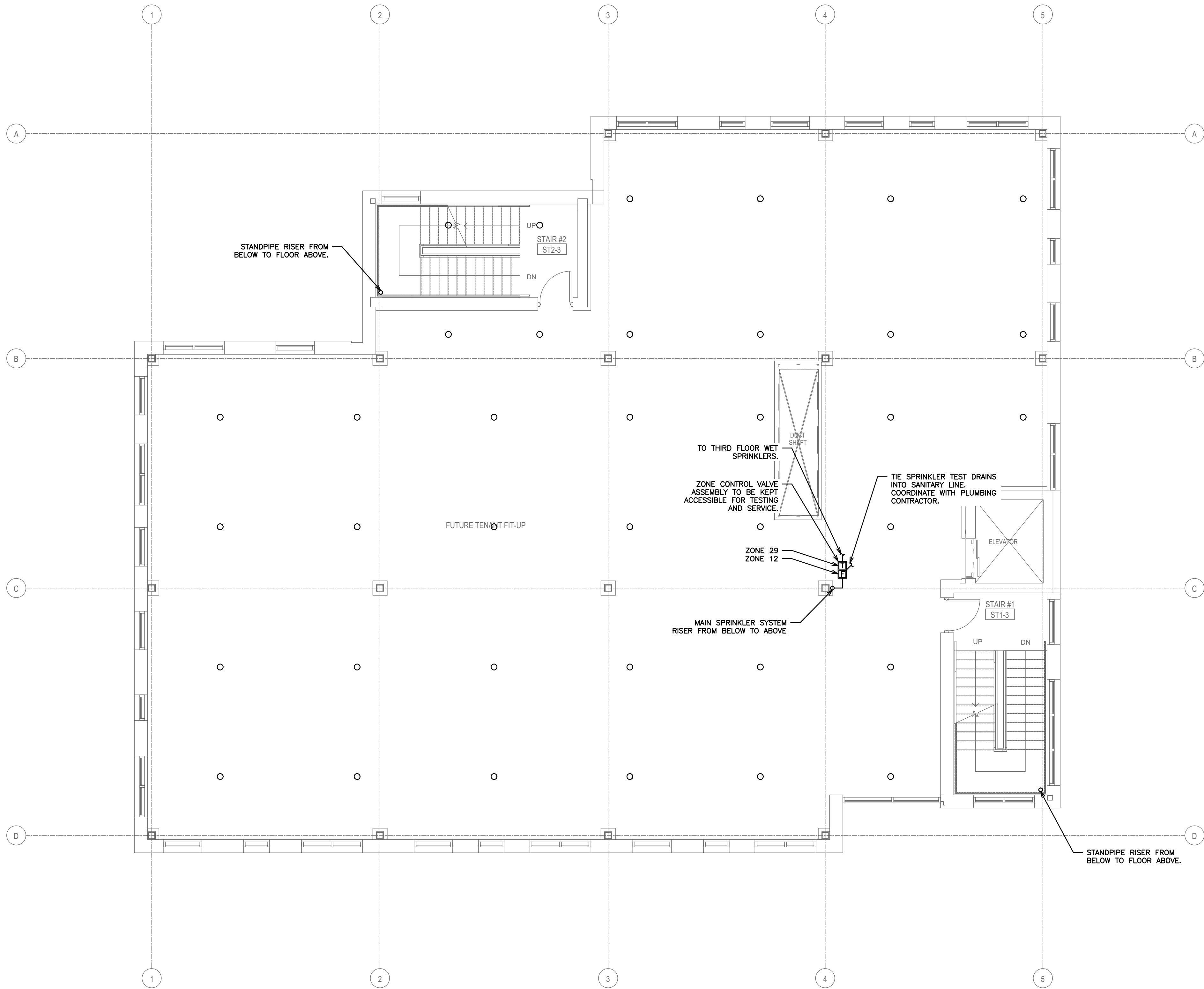
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|--------------|---------------|
| SCALE:       | 1:75          |
| DESIGNED BY: | C.S.J./A.L.P. |
| CHECKED BY:  | C.S.J.        |
| PROJECT NO.: | 125807        |
| DRAWING NO.: | M3.2          |

FOR INFORMATION ONLY- STRUCTURAL TENDER





#### SPRINKLER INSTALLATION, COORDINATION & PLANS REVIEWER NOTES:

1. SPRINKLER HEAD LAYOUT SHOWN FOR SCHEMATIC PURPOSES ONLY. THE SPRINKLER CONTRACTOR IS REQUIRED TO DESIGN AND INSTALL A COMPLETE SPRINKLER SYSTEM IN CONFORMANCE WITH NFPA 13-2022 UNDER BASE CONTRACT.
2. DESIGN DRAWINGS TO INCLUDE ALL PIPING COMPLETE WITH SIZES, VALVES, ASSOCIATED COMPONENTS AND HYDRAULIC CALCULATIONS.
3. NO EXTRA TO BE PROVIDED FOR ADDITIONAL SPRINKLER HEAD REQUIREMENTS. SPRINKLER HEADS SHOWN FOR SCHEMATIC PURPOSES ONLY. THE SPRINKLER CONTRACTOR IS REQUIRED TO DESIGN AND INSTALL A COMPLETE SPRINKLER SYSTEM.
4. COORDINATE SHARED SPACES WITH GAS PIPING, HVAC DUCTWORK AND PLUMBING PIPING.
5. CLEARANCES TO BUILDING SERVICES/EQUIPMENT INCLUDING LIGHTING FIXTURES AND HVAC SYSTEMS SHALL BE IN CONFORMANCE WITH NFPA 13-2022 REQUIREMENTS.
6. REFER TO DETAIL FOR SUGGESTED FIRE STOPPING OF PIPING THROUGH FIRE SEPARATIONS.
7. TENDERING OF THESE DOCUMENTS IS DONE UNDER THE MUTUAL UNDERSTANDING THAT ALL CONTRACTORS ARE EXPERIENCED AND LICENSED IN THE WORKS BEING PROVIDED AND THAT ALL COMPONENTS OF A FULLY FUNCTIONING SYSTEM WILL BE INCLUDED WHETHER SHOWN OR NOT SHOWN BUT IMPLIED FOR A COMPLETE SYSTEM.
8. ALL DETAILS SHOWN ARE SCHEMATIC BY NATURE AND ARE TO BE USED FOR SCOPE OF WORK PURPOSES ONLY. COORDINATE WITH ALL TRADES AND MANUFACTURER'S BEST PRACTICES AND DIRECTIONS.
9. ALL VALVES TO BE SUPERVISED BY FIRE ALARM SYSTEM AND LABELED TO MATCH FIRE ALARM SYSTEM. CONTRACTOR IS RESPONSIBLE FOR FINAL COORDINATION OF ZONE NUMBERING WITH FIRE ALARM CONTRACTOR.
10. SPRINKLER SYSTEM HYDRAULIC CALCULATIONS AND FINAL LAYOUT IS TO BE PROVIDED IN THE SHOP DRAWING PHASE OF THE PROJECT. IT WILL BE CIRCULATED TO THE CITY AND ENGINEER OF RECORD FOR REVIEW AND APPROVAL.
11. FIRE HOSE STANDPIPE VALVES PROPOSED IN STAIRWELLS. FINAL SPRINKLER LAYOUT SHOP DRAWINGS BY CONTRACTOR SHALL ENSURE THEY ARE NOT POSITIONED IN APPROPRIATE LOCATION.
12. CONTRACTOR SHALL DETERMINE BEST ROUTING OF SPRINKLER PIPING BY COORDINATING WITH ALL DRAWINGS. COORDINATE WITH ALL OTHER TRADES ON SITE PRIOR TO INSTALLATION OF PIPING.
13. ALL REQUIRED CUTTING AND CORING BY SPRINKLER CONTRACTOR. ALL PATCHING BY GENERAL CONTRACTOR.

#### SPRINKLER LEGEND

|           |                                                     |
|-----------|-----------------------------------------------------|
| — — — — — | SPRINKLER LINE (WET)                                |
| — — — — — | PIPE UP, BRANCH DROPPING FROM TEE, PIPE DOWN        |
| ●         | SEMI-RECESSED PENDENT SPRINKLER HEAD C/W ESCUTCHEON |
| ○         | UPRIGHT SPRINKLER HEAD                              |
| ▲         | SIDEWALL SPRINKLER HEAD                             |

|     |                             |          |
|-----|-----------------------------|----------|
| 2.  | ISSUED FOR PERMIT           | AUG 2026 |
| 1.  | ISSUED FOR 90% COORDINATION | AUG 2026 |
| NO. | SUBMISSION                  | DATE     |

BOWMANVILLE HEALTH CLINIC  
222 KING STREET, BOWMANVILLE, ON

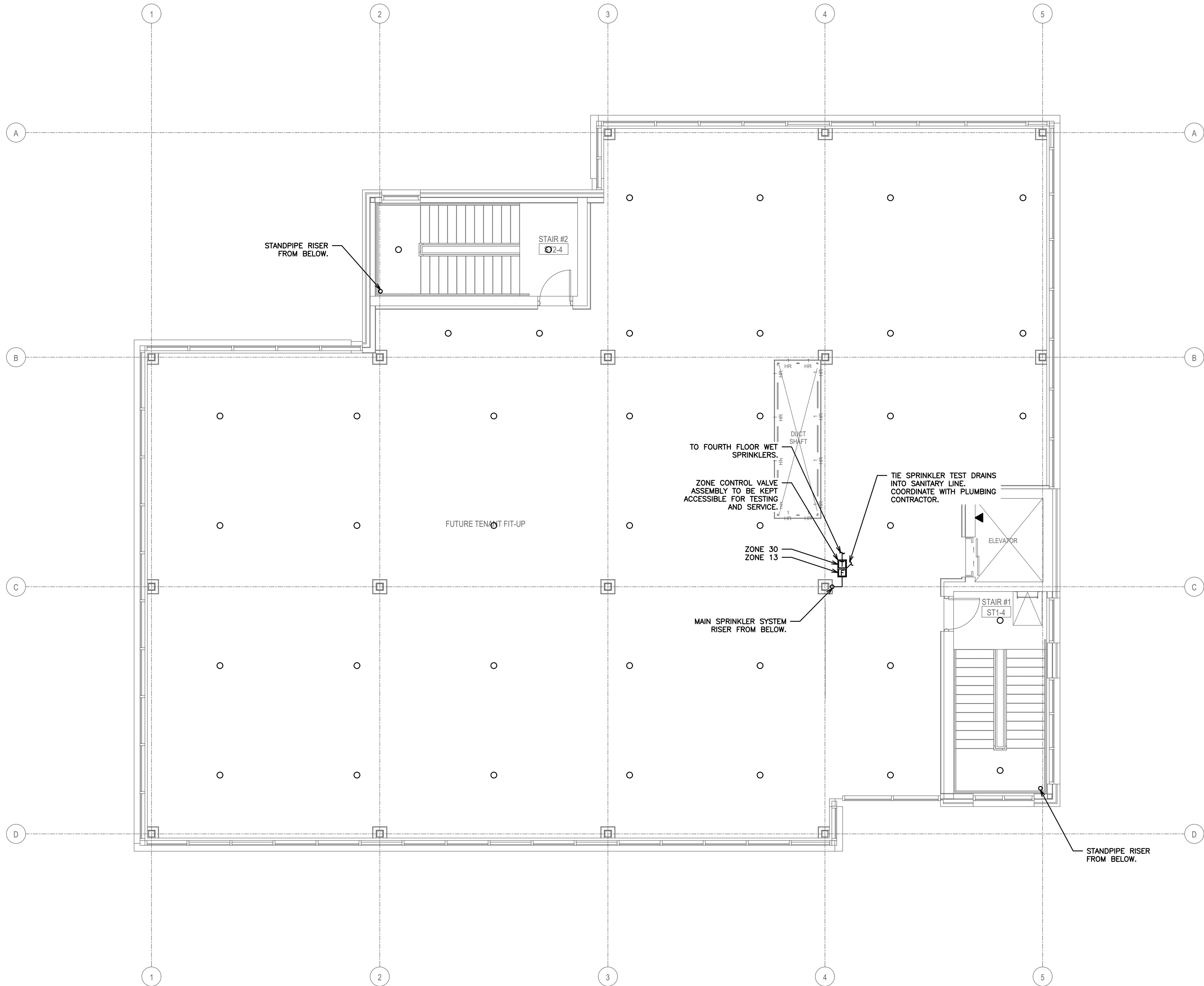
## FIRE PROTECTION 3RD FLOOR



481 Taunton Rd W, Oshawa ON  
150 King St, Peterborough ON  
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info@dgbiddle.com  
dgbiddle.com



|              |               |
|--------------|---------------|
| SCALE:       | 1:75          |
| DESIGNED BY: | C.S.J./A.L.P. |
| CHECKED BY:  | C.S.J.        |
| PROJECT NO.: | 125807        |
| DRAWING NO.: | M3.4          |



**SPRINKLER INSTALLATION, COORDINATION & PLANS REVIEWER NOTES:**

1. SPRINKLER HEAD LAYOUT SHOWN FOR SCHEMATIC PURPOSES ONLY. THE SPRINKLER CONTRACTOR IS REQUIRED TO DESIGN AND INSTALL A COMPLETE SPRINKLER SYSTEM IN CONFORMANCE WITH NFPA 13-2022 UNDER BASE CONTRACT.
2. DESIGN DRAWINGS TO INCLUDE ALL PIPING COMPLETE WITH SIZES, VALVES, ASSOCIATED COMPONENTS AND HYDRAULIC CALCULATIONS.
3. NO EXTRA TO BE PROVIDED FOR ADDITIONAL SPRINKLER HEAD REQUIREMENTS. SPRINKLER HEADS SHOWN FOR SCHEMATIC PURPOSES ONLY. THE SPRINKLER CONTRACTOR IS REQUIRED TO DESIGN AND INSTALL A COMPLETE SPRINKLER SYSTEM.
4. COORDINATE SHARED SPACES WITH GAS PIPING, HVAC DUCTWORK AND PLUMBING PIPING.
5. CLEARANCES TO BUILDING SERVICES/EQUIPMENT INCLUDING LIGHTING FIXTURES AND HVAC SYSTEMS SHALL BE IN CONFORMANCE WITH NFPA 13-2022 REQUIREMENTS.
6. REFER TO DETAIL FOR SUGGESTED FIRE STOPPING OF PIPING THROUGH FIRE SEPARATIONS.
7. TENDERING OF THESE DOCUMENTS IS DONE UNDER THE MUTUAL UNDERSTANDING THAT ALL CONTRACTORS ARE EXPERIENCED AND LICENSED IN THE WORKS BEING PROVIDED AND THAT ALL COMPONENTS OF A FULLY FUNCTIONING SYSTEM WILL BE INCLUDED WHETHER SHOWN OR NOT SHOWN BUT IMPLIED FOR A COMPLETE SYSTEM.
8. ALL DETAILS SHOWN ARE SCHEMATIC BY NATURE AND ARE TO BE USED FOR SCOPE OF WORK PURPOSES ONLY. COORDINATE WITH ALL TRADES AND MANUFACTURER'S BEST PRACTICES AND DIRECTIONS.
9. ALL VALVES TO BE SUPERVISED BY FIRE ALARM SYSTEM AND LABELED TO MATCH FIRE ALARM SYSTEM. CONTRACTOR IS RESPONSIBLE FOR FINAL COORDINATION OF ZONE NUMBERING WITH FIRE ALARM CONTRACTOR.
10. SPRINKLER SYSTEM HYDRAULIC CALCULATIONS AND FINAL LAYOUT IS TO BE PROVIDED IN THE SHOP DRAWING PHASE OF THE PROJECT. IT WILL BE CIRCULATED TO THE CITY AND ENGINEER OF RECORD FOR REVIEW AND APPROVAL.
11. FIRE HOSE STANDPIPE VALVES PROPOSED IN STAIRWELLS. FINAL SPRINKLER LAYOUT SHOP DRAWINGS BY CONTRACTOR SHALL ENSURE THEY ARE NOT POSITIONED IN APPROPRIATE LOCATION.
12. CONTRACTOR SHALL DETERMINE BEST ROUTING OF SPRINKLER PIPING BY COORDINATING WITH ALL DRAWINGS. COORDINATE WITH ALL OTHER TRADES ON SITE PRIOR TO INSTALLATION OF PIPING.
13. ALL REQUIRED CUTTING AND CORING BY SPRINKLER CONTRACTOR. ALL PATCHING BY GENERAL CONTRACTOR.

**SPRINKLER LEGEND**

|                   |                                                     |
|-------------------|-----------------------------------------------------|
| —WET—WET—WET—WET— | SPRINKLER LINE (WET)                                |
| —○—○—○—○—○—       | PIPE UP, BRANCH DROPPING FROM TEE, PIPE DOWN        |
| ⊙                 | SEMI-RECESSED PENDENT SPRINKLER HEAD C/W ESCUTCHEON |
| ○                 | UPRIGHT SPRINKLER HEAD                              |
| ▲                 | SIWALL SPRINKLER HEAD                               |

|     |                             |          |
|-----|-----------------------------|----------|
| 2.  | ISSUED FOR PERMIT           | AUG 2026 |
| 1.  | ISSUED FOR 90% COORDINATION | AUG 2026 |
| NO. | SUBMISSION                  | DATE     |

BOWMANVILLE HEALTH CLINIC  
222 KING STREET, BOWMANVILLE, ON

**FIRE PROTECTION  
4TH FLOOR**



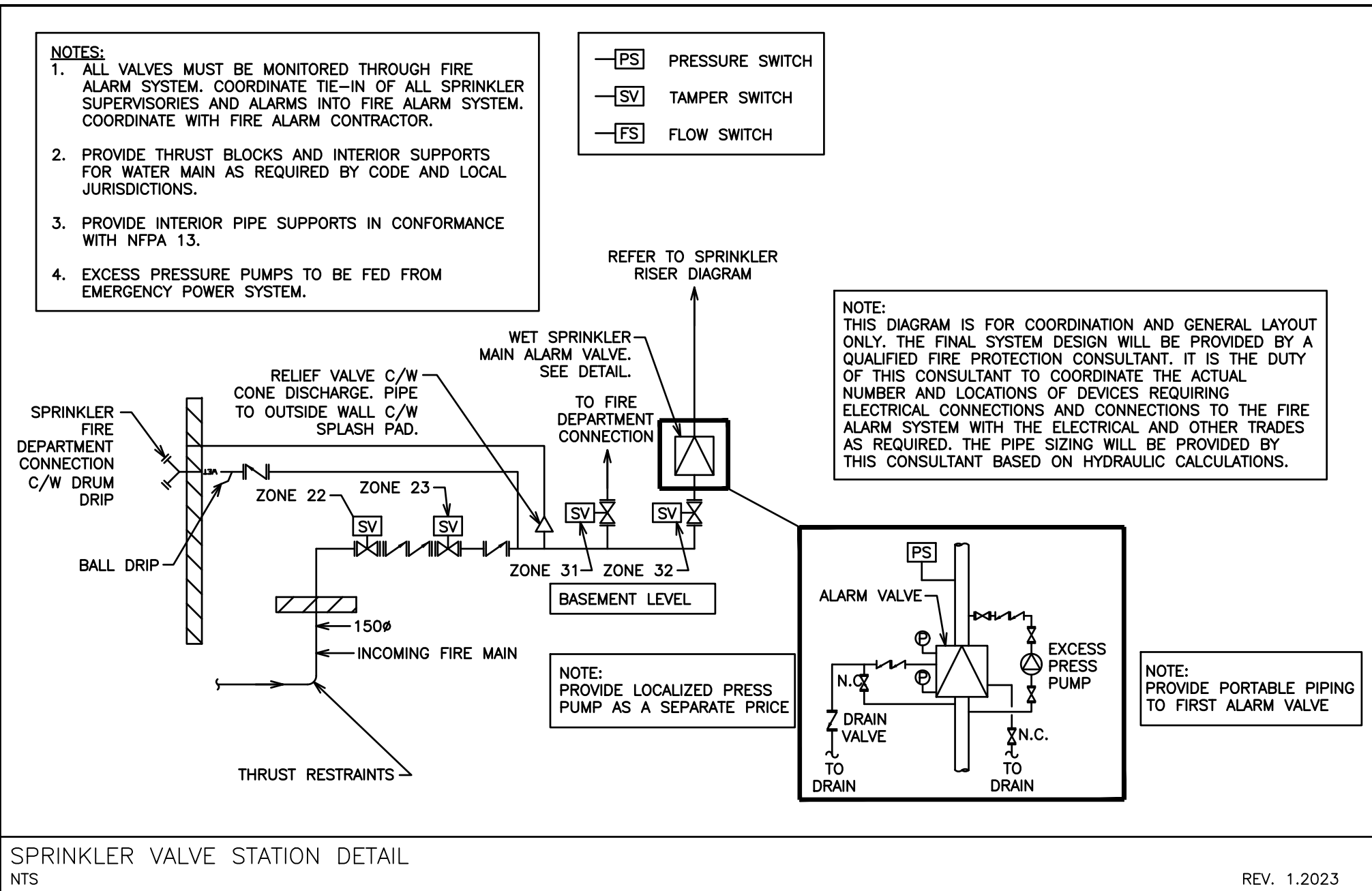
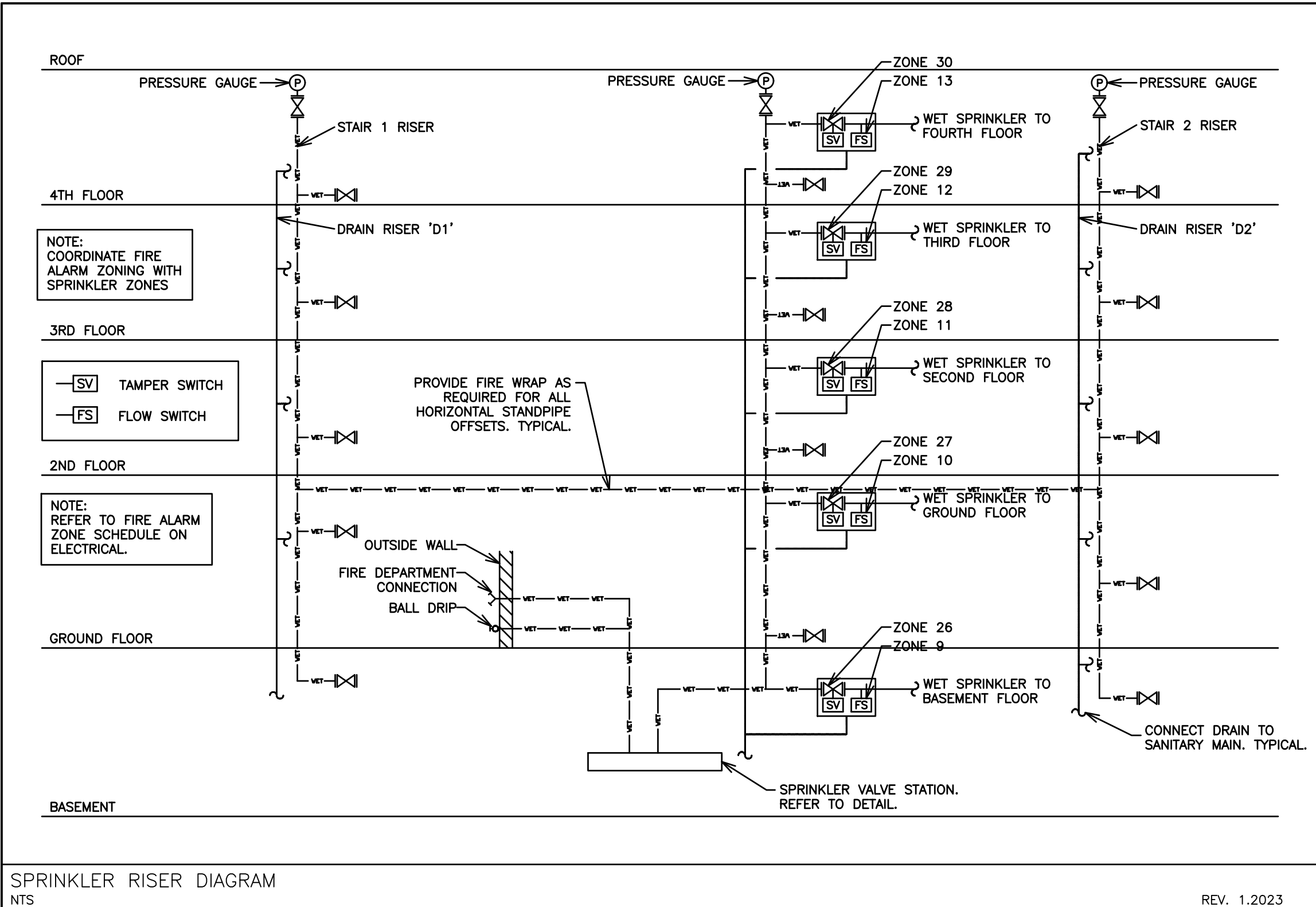
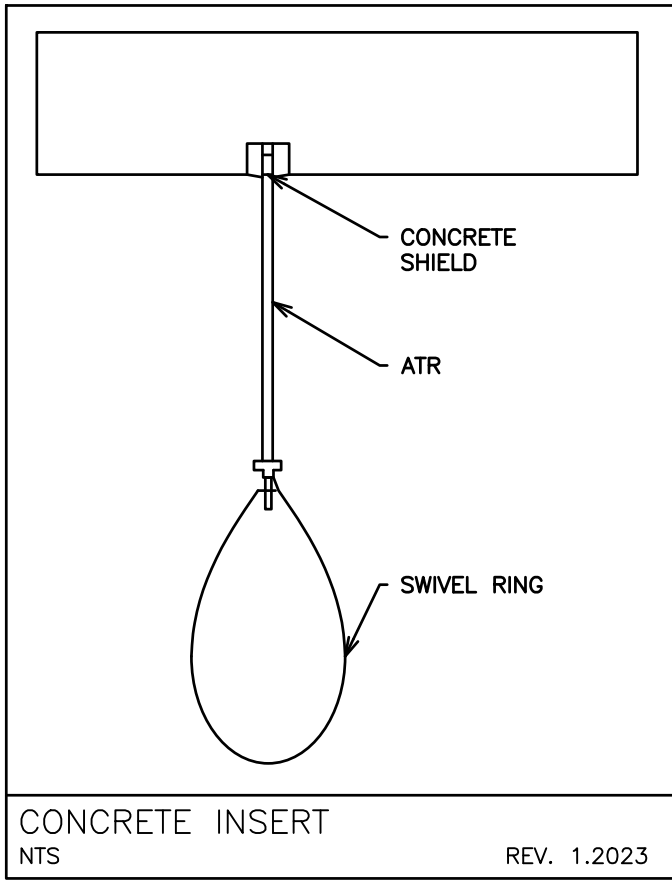
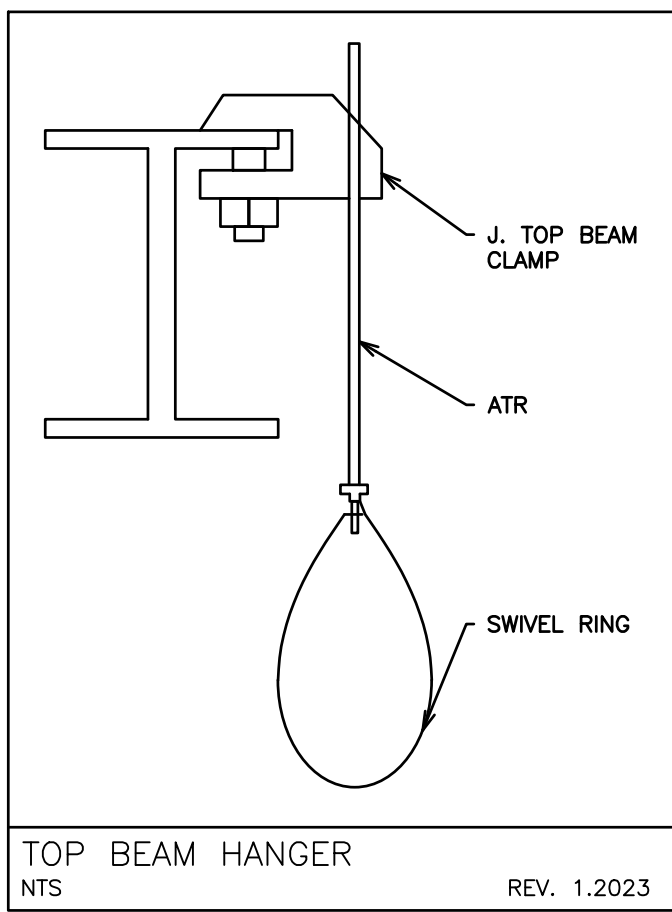
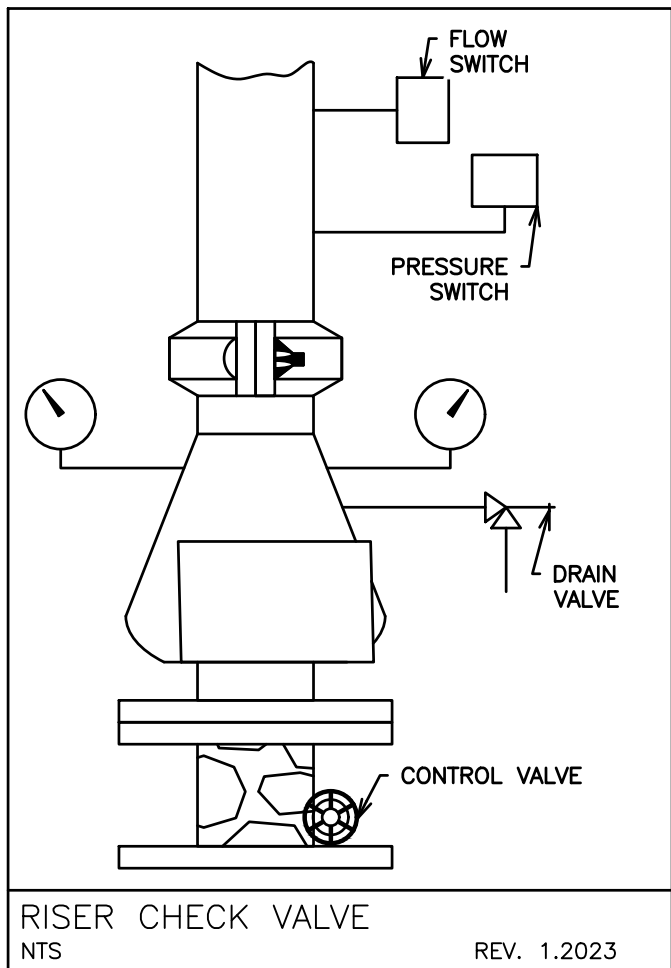
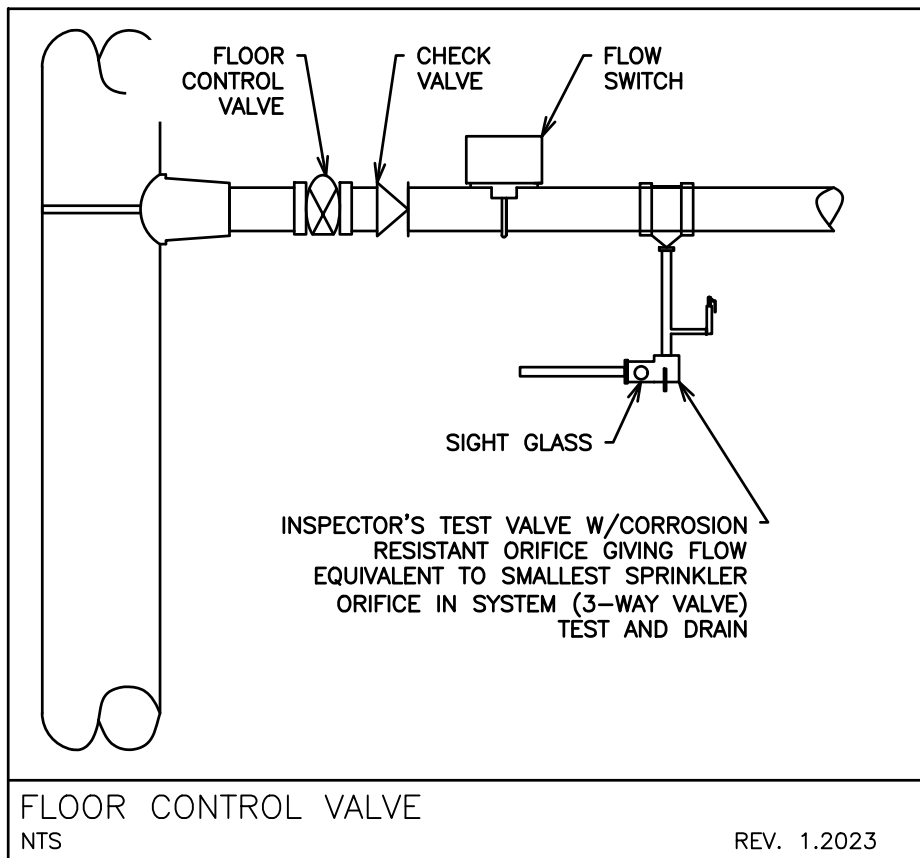
**D.G. BIDDLE  
& ASSOCIATES**  
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|---------------------------------------------------------------------------------------|--------------|---------------|
|  | SCALE:       | 1:75          |
|                                                                                       | DESIGNED BY: | C.S.J./A.L.P. |
|                                                                                       | CHECKED BY:  | C.S.J.        |
|                                                                                       | PROJECT NO.: | 125807        |
|                                                                                       | DRAWING NO.: | M3.5          |

- HANGING NOTES:**
- A. STEEL PIPE
1. THE DISTANCE BETWEEN HANGERS SHALL NOT EXCEED 12'-0" FOR 1" AND 1-1/4" PIPE AND 15'-0" FOR 1-1/2" AND LARGER PIPES.
  2. THE UNSUPPORTED LENGTH BETWEEN THE END SPRINKLER AND THE LAST HANGER ON THE LINE SHALL NOT BE GREATER 36" FOR 1" PIPE, 48" FOR 1-1/4" PIPE AND 60" FOR 1-1/2" OR LARGER PIPE. 3 1
  3. FOR UP TO AND INCLUDING 4" PIPE USE " ATR; FOR 6" PIPE USE " ATR. 8 2
- B. CPVC PIPE
1. THE DISTANCE BETWEEN HANGERS SHALL NOT EXCEED 8'-0" FOR 1" PIPE, 10'-0" FOR 1-1/4" TO 1-1/2" AND 12'-0" FOR 2" PIPE.

- SPRINKLER INSTALLATION COORDINATION & PLANS REVIEWER NOTES:**
1. SPRINKLER HEAD LAYOUT SHOWN FOR SCHEMATIC PURPOSES ONLY. THE SPRINKLER CONTRACTOR IS REQUIRED TO DESIGN AND INSTALL A COMPLETE SPRINKLER SYSTEM IN CONFORMANCE WITH NFPA 13-2022 UNDER BASE CONTRACT.
  2. DESIGN DRAWINGS TO INCLUDE ALL PIPING COMPLETE WITH SIZES, VALVES, ASSOCIATED COMPONENTS AND HYDRAULIC CALCULATIONS.
  3. NO EXTRA TO BE PROVIDED FOR ADDITIONAL SPRINKLER HEAD REQUIREMENTS. SPRINKLER HEADS SHOWN FOR SCHEMATIC PURPOSES ONLY. THE SPRINKLER CONTRACTOR IS REQUIRED TO DESIGN AND INSTALL A COMPLETE SPRINKLER SYSTEM.
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  11. FIRE HOSE STANDPIPE VALVES PROPOSED IN STAIRWELLS. FINAL SPRINKLER LAYOUT SHOP DRAWINGS BY CONTRACTOR SHALL ENSURE THEY ARE NOT POSITIONED IN APPROPRIATE LOCATION.
  12. CONTRACTOR SHALL DETERMINE BEST ROUTING OF SPRINKLER PIPING BY COORDINATING WITH ALL DRAWINGS. COORDINATE WITH ALL OTHER TRADES ON SITE PRIOR TO INSTALLATION OF PIPING.
  13. ALL REQUIRED CUTTING AND CORING BY SPRINKLER CONTRACTOR. ALL PATCHING BY GENERAL CONTRACTOR.



- GENERAL REQUIREMENTS FOR MECHANICAL WORK**
1. SCOPE OF WORK
  - 1.1. CONFORM TO THE APPLICABLE PROVISIONS OF THE GENERAL CONDITIONS OF THE CONTRACT.
  - 1.2. THE GENERAL MECHANICAL SPECIFICATIONS SHALL APPLY TO AND BE PART OF EACH OF THE SECTIONS COVERING THE MECHANICAL TRADES WORK.
  - 1.3. COMPLY WITH THE REQUIREMENTS OF THE CURRENT EDITION OF THE O.B.C., ALL OTHER APPLICABLE CODES, REGULATIONS, BY-LAWS AND OFFICIAL STANDARDS ACCORDING TO THE REQUIREMENTS AND INTERPRETATIONS OF THE AUTHORITIES HAVING JURISDICTION. THESE CODES AND STANDARDS CONSTITUTE AN INTEGRAL PART OF THESE SPECIFICATIONS. IN CASE OF CONFLICT, THE CODES TAKE PRECEDENCE OVER THE CONTRACT DOCUMENTS.
  2. EXAMINATION OF SITE AND INFORMATION
  - 2.1. EACH SUBCONTRACTOR, BEFORE PRICING, SHALL EXAMINE THE SITE, THE ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND THEY SHALL FAMILIARIZE THEMSELVES WITH THE BUILDING CONSTRUCTION AND FINISH IN ORDER THAT THEIR TENDER MAY INCLUDE EVERYTHING NECESSARY FOR THE PROPER COMPLETION OF THE WORK.
  3. RELATIONSHIP TO OTHER TRADES
  - 3.1. THIS SUBCONTRACTOR SHALL CONFER WITH ALL OTHER CONTRACTORS INSTALLING EQUIPMENT, PIPING, OTHER WORK, FOUNDATIONS, ETC., WHICH MAY AFFECT THEIR INSTALLATION, AND THEY SHALL ARRANGE THEIR EQUIPMENT, PIPING, ETC., IN PROPER RELATION WITH OTHER APPARATUS, AND WITH THE BUILDING CONSTRUCTION. THIS SUBCONTRACTOR SHALL ALSO CONFIRM THE ELECTRICAL CHARACTERISTICS OF THE PROJECT AND ORDER EQUIPMENT ACCORDINGLY.
  - 3.2. SPECIAL CARE SHALL BE TAKEN IN THE INSTALLATION OF ALL WORK, TO SEE THAT THEY ALL COME WITHIN THE LIMITS ESTABLISHED BY THE FINISH LINES OF ALL WALLS, FLOORS, CEILINGS, ETC.
  - 3.3. THIS SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR AND OTHER SUBCONTRACTORS WHO ARE CONCERNED, OF ALL OPENINGS, FOUNDATION WORK, ETC., OR OTHER PROVISIONS NECESSARY IN THEIR WORK FOR THE INSTALLATION OF THE SUBCONTRACTORS WORK, AND THEY SHALL FURNISH ALL INFORMATION AND NECESSARY MATERIALS IN AMPLE TIME SO THAT PROPER PROVISIONS CAN BE MADE FOR SAME, AND SHALL SUPPLY AND CORRECTLY PLACE ALL INSERTS, SLEEVES, ANCHORS, ETC.
  - 3.4. FAILURE TO COMPLY WITH THESE REQUIREMENTS ON THE PART OF THIS SUBCONTRACTOR WILL RENDER THEM RESPONSIBLE FOR THE COST OF CUTTING OPENINGS, INSTALLING HANGERS AND OTHER PROVISIONS AT A LATER DATE, AND THE SUBSEQUENT PATCHING, ETC., THEREBY REQUIRED.
  - 3.5. NO CUTTING SHALL BE DONE WITHOUT PERMISSION. ALL SUCH WORK SHALL BE DONE BY TRADES-PERSONS SKILLED IN AND CERTIFIED FOR THIS PARTICULAR TRADE.
  - 3.6. EACH SUBCONTRACTOR IS TO BE AN EXPERT IN THEIR TRADE.
  4. REQUIREMENTS OF INSPECTION DEPARTMENTS
  - 4.1. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH ALL LAWS AND REGULATIONS OF ALL AUTHORITIES HAVING JURISDICTION IN EACH CASE, PARTICULARLY ALL AFFECTED DEPARTMENTS OF THE MUNICIPALITY AND PROVINCE. ELECTRICAL EQUIPMENT SUPPLIED MUST CONFORM TO THE REGULATIONS OF CSA AND THE LOCAL UTILITY. ANYTHING NECESSARY TO MAKE THE WORK COMPLY WITH THESE REQUIREMENTS SHALL BE PROVIDED BY THIS SUBCONTRACTOR WITHOUT ADDITIONAL COST TO THE OWNERS IF IT REASONABLY COULD HAVE BEEN FORESEEN WHEN TENDERING.
  - 4.2. EACH SUBCONTRACTOR SHALL PREPARE DRAWINGS IN ADDITION TO ENGINEER'S DRAWINGS AS MAY BE REQUIRED BY VARIOUS INSPECTION DEPARTMENTS HAVING JURISDICTION, AND OBTAIN THEIR APPROVAL BEFORE PROCEEDING WITH THE WORK.
  - 4.3. IN THE EVENT THAT THE INSPECTION DEPARTMENT'S REQUEST DEVIATES FROM THE ENGINEER'S LAYOUT, THE SUBCONTRACTOR SHALL CONSULT ENGINEER BEFORE PROCEEDING WITH THE SAME. IT SHALL BE NOTED THAT ENGINEER'S DRAWINGS ARE GENERALLY ACCEPTABLE TO INSPECTION DEPARTMENTS AND MINOR SUPPLEMENTS NEED ONLY BE MADE BY SUBCONTRACTORS.
  5. CERTIFICATES, PERMITS, FEES
  - 5.1. SUBCONTRACTORS SHALL GIVE ALL NECESSARY NOTICES, OBTAIN ALL REQUIRED PERMITS AND PAY ALL FEES INCLUDING PAYMENT FOR STREET CONNECTIONS TO STORM, SANITARY, WATER AND GAS IN ORDER THAT THE WORK HEREIN SPECIFIED MAY BE CARRIED OUT AND THEY SHALL FURNISH ANY CERTIFICATES NEEDED AS EVIDENCE THAT THE WORK INSTALLED CONFORMS WITH THE LAWS AND REGULATIONS OF THE MUNICIPALITY AND PROVINCE.
  6. GUARANTEE
  - 6.1. THIS SUBCONTRACTOR SHALL GUARANTEE ALL MATERIAL AND WORKMANSHIP USED IN THE WORK TO BE IN STRICT ACCORDANCE WITH THE SPECIFICATIONS, OF BEST QUALITY AND TYPE OBTAINABLE TO GIVE FIRST-CLASS CONSTRUCTION AND PROPER EFFICIENT OPERATION, AND FREE FROM ANY DEFECTS, ANY SUCH DEFECTS WHICH MAY APPEAR IN THE WORK WITHIN ONE YEAR AFTER WRITTEN ACCEPTANCE OF THEIR WORK, SHALL BE REPAIRED AND REPLACED BY THIS SUBCONTRACTOR WITHOUT ADDITIONAL EXPENSE TO THE OWNER, WHERE SUCH DEFECTS OCCUR, THIS SUBCONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL COSTS INCURRED IN MAKING THE DEFECTIVE WORK GOOD. THIS SHALL NOT OBSOLETE ANY LONGER WARRANTIES ON SPECIFIC ITEMS OF EQUIPMENT.
  - 6.2. ALL INJURIES TO ADJACENT WORK, PARTICULARLY PLASTER, WOOD FINISHES OR OTHER MATERIALS, OR DAMAGE TO OTHER EQUIPMENT, CAUSED BY SUCH DEFECTS OF THIS SUBCONTRACTOR'S WORK OR BY SUBSEQUENT REPLACEMENT AND REPAIR, SHALL BE MADE GOOD AT THE EXPENSE OF THIS SUBCONTRACTOR. ALL REPAIR WORK SHALL BE DONE BY TRADES RESPONSIBLE FOR THE ORIGINAL WORK.
  7. DRAWINGS
  - 7.1. THE DRAWINGS SHOW THE APPROXIMATE LOCATION FOR SPECIAL APPARATUS AND THE MATERIALS THROUGHOUT THE BUILDING. THE ARRANGEMENT SHOWN ON THE DRAWING IS MORE OR LESS DIAGRAMMATIC AND AS SUCH APPROXIMATE ONLY, AND MAY BE ALTERED, AS APPROVED BY THE ENGINEER, TO MEET REQUIREMENTS OF THE APPARATUS, ETC., AND OF THE BUILDING. EACH SUBCONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL MEASUREMENTS FOR THEIR WORK THROUGHOUT, AND THEY SHALL ARRANGE THEIR PIPING, WIRING AND APPARATUS TO CONFORM TO THE ARCHITECTURAL AND STRUCTURAL DETAILS IN A SATISFACTORY MANNER AND SHALL CO-OPERATE WITH OTHER CONTRACTORS TO ENSURE THAT WORK SHALL MEET ALL REQUIREMENTS OF DIVERSE CONTRACTS.
  - 7.2. ITEMS SHOWN ON THE DRAWINGS BUT NOT SPECIFIED OR SPECIFIED BUT NOT SHOWN SHALL BE INCLUDED.
  - 7.3. ITEMS OBVIOUSLY REQUIRED TO PROVIDE A COMPLETE WORKING SYSTEM BUT NOT SPECIFIED NOR SHOWN SHALL BE INCLUDED.
  8. RESPONSIBILITY AND LIABILITY
  - 8.1. EACH SUBCONTRACTOR SHALL SUPERVISE THE LAYING OUT OF THEIR WORK AND SHALL ARRANGE IT IN CO-OPERATION WITH OTHER WHO MAY BE WORKING ON THE PREMISES WHILE THE WORK OF THIS CONTRACT IS IN PROGRESS. THEY SHALL PROTECT FINISHED AND UNFINISHED WORK OF THIS CONTRACT AND/OR WORK OF OTHERS ON THE PREMISES UNTIL THE COMPLETED WORK HAS BEEN ACCEPTED.
  - 8.2. THE SUBCONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR INCONSISTENCIES FOUND IN THE DRAWINGS OR SPECIFICATIONS BEFORE SUBMITTING THEIR TENDER. THEY SHALL ABIDE BY DECISIONS GIVEN TO THEM IN WRITING WITH REGARD TO SAME. EACH SUBCONTRACTOR IS CAUTIONED THAT THE WORK AS SHOWN IS INTENDED TO BE COMPLETE IN ALL RESPECTS AND THAT FAILURE ON THEIR PART TO NOTIFY THE ENGINEER OF ANY DISCREPANCIES WILL NOT RELIEVE THEM OF THE RESPONSIBILITY OF COMPLETING THE WORK AS INTENDED AT THE CONTRACT PRICE.
  9. CLEAN-UP
  - 9.1. DURING THE COURSE OF CONSTRUCTION, EACH SUBCONTRACTOR SHALL KEEP THEIR WORK TIDY AND NOT ALLOW AN ACCUMULATION OF DEBRIS RESULTING FROM THEIR WORK.
  - 9.2. UPON COMPLETION OF THEIR WORK THEY SHALL LEAVE THE PREMISES IN A BROOM-CLEAN CONDITION.
  10. PROTECTION
  - 10.1. SUBCONTRACTORS ARE TO PROTECT THEIR WORK FROM CONSTRUCTION DIRT OR DAMAGE FROM ANY CAUSE. SECURELY PLUG AND CAP ALL OPENINGS IN PIPE, EQUIPMENT AND FIXTURES TO PREVENT OBSTRUCTIONS.
  11. ELECTRICAL WIRING AND CONTROLS
  - 11.1. ALL POWER WIRING FOR MECHANICAL EQUIPMENT SHALL BE DONE BY THE ELECTRICAL DIVISION. THE MECHANICAL TRADE INVOLVED SHALL PROVIDE STARTERS, THERMOSTATS, VALVES, CONTROL TRANSFORMERS, RELAYS, ETC. ALL CONTROL WIRING SHALL BE DONE BY THE MECHANICAL CONTRACTOR, UNLESS OTHERWISE NOTED ELSEWHERE IN THIS SPECIFICATION.

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| 2.                                                                                                                      | ISSUED FOR PERMIT           | AUG 2026 |
| 1.                                                                                                                      | ISSUED FOR 90% COORDINATION | AUG 2026 |
| NO.                                                                                                                     | SUBMISSION                  | DATE     |
| BOWMANVILLE HEALTH CLINIC<br>222 KING STREET, BOWMANVILLE, ON                                                           |                             |          |
| FIRE PROTECTION<br>NOTES & DETAILS                                                                                      |                             |          |
| <br>481 Taunton Rd W, Oshawa ON<br>150 King St, Peterborough ON<br>Phone: 905-578-8500<br>info@dgbiddle.com<br>dgbiddle |                             |          |