

Washroom and Kitchen Renewal at Susanna Moodie Elementary School

376 Avonlough Road, Belleville, Ontario

LIST OF DRAWINGS

ARCHITECTURAL

- A000 OBC MATRIX, KEY PLAN AND DRAWING LIST
- A201 GROUND & SECOND FLOOR PLAN & LIFE SAFETY
- A202 PART GROUND FLOOR DEMOLITION PLAN
- A203 PART GROUND FLOOR PLAN
- A204 PART GROUND FLOOR REFLECTED CEILING PLAN
- A401 SECTION & INTERIOR ELEVATIONS
- A901 SCHEDULES & MILLWORK DETAILS

STRUCTURAL

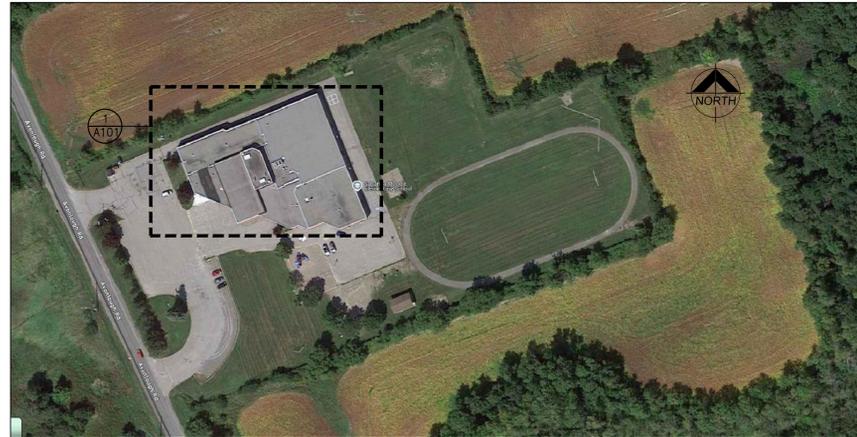
- S101 GENERAL NOTES AND KEY PLAN
- S102 TYPICAL DETAILS
- S201 PART GROUND FLOOR DEMOLITION PLAN AND PART FOUNDATION PLAN
- S202 PART GROUND FLOOR PLAN AND SECTIONS
- S203 SECTION

MECHANICAL

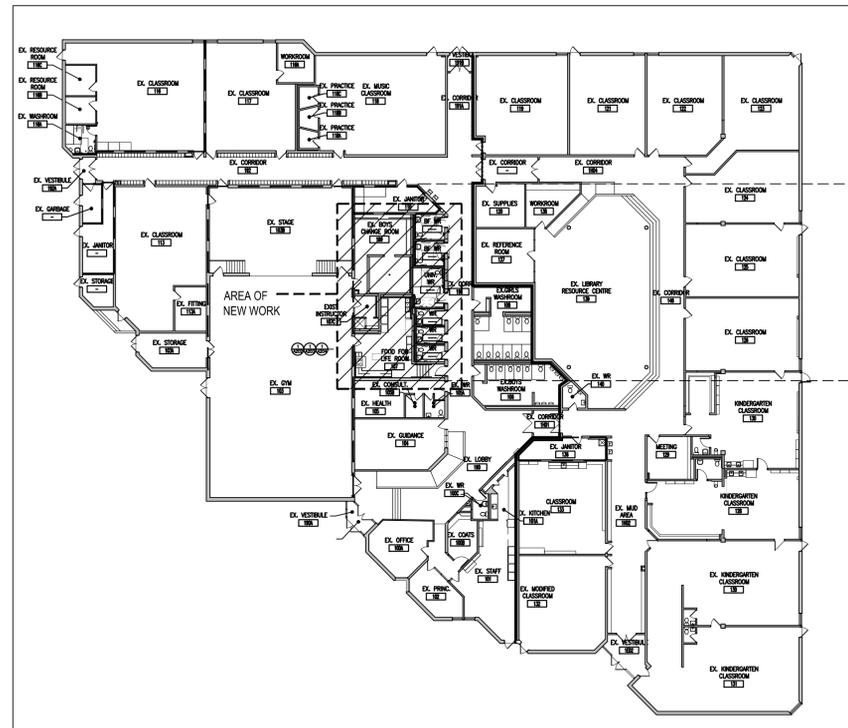
- M-1.1 MECHANICAL SPECIFICATIONS I
- M-1.2 MECHANICAL SPECIFICATIONS II
- M-1.3 MECHANICAL LEGEND
- M-1.4 MECHANICAL SCHEDULES AND DETAILS I
- M-1.5 MECHANICAL SCHEDULES AND DETAILS II
- M-2.1 PART GROUND FLOOR PLAN - HVAC DEMOLITION
- M-2.2 PART GROUND FLOOR PLAN - HVAC NEW
- M-2.3 PART MECHANICAL ROOM - HVAC NEW
- M-2.4 PART FLOOR NEW PLAN - HVAC
- M-3.1 PART GROUND FLOOR PLAN - PLUMBING DEMOLITION
- M-3.2 PART GROUND FLOOR PLAN - DRAINAGE DEMOLITION
- M-3.3 PART GROUND FLOOR PLAN - PLUMBING NEW
- M-3.4 PART GROUND FLOOR PLAN - DRAINAGE NEW

ELECTRICAL

- E-1 ELECTRICAL SPEC., LEGEND, DRAWING LIST AND DETAILS
- E-2 ELECTRICAL VICINITY PLANS, AND RISER DIAGRAM
- E-3 LIGHTING PLAN ELECTRICAL
- E-4 POWER & SYSTEMS PLAN ELECTRICAL
- E-5 DEMOLITION PLAN ELECTRICAL



1 A000 SITE KEY PLAN
N.T.S.



2 A000 EX. SCHOOL PLAN
N.T.S.

ROOM NO. & NAME:	AREA M2	BASED ON:	OCCUPANT LOAD:
100A - Ex. Office	26	9.3 m2/person	3
100B - Vice Principal Office		Design of Space	1
101 - Ex. Principal Office		Design of Space	1
102 - Staff	45	9.3 m2/person	4
104 - Guidance	41	9.3 m2/person	4
105 - Health		Design of Space	1
105B - Ex. Consultant		Design of Space	1
107C - Instructor Office		Design of Space	1
110 - Janitor		Design of Space	1
113 - Classroom		Design of Space	30
114 - Janitor		Design of Space	1
116 - Development Classroom		Design of Space	12
117 - Science Classroom		Design of Space	30
118 - Music Classroom		Design of Space	30
119 - Classroom		Design of Space	30
121 - Classroom		Design of Space	30
122 - Classroom		Design of Space	30
123 - Classroom		Design of Space	30
124 - Classroom		Design of Space	30
125 - Classroom		Design of Space	30
126 - Classroom		Design of Space	30
127 - Kindergarten		Design of Space	30
128 - Kindergarten		Design of Space	30
129 - Meeting Room	18	9.3 m2/person	2
130 - Kindergarten		Design of Space	30
131 - Kindergarten		Design of Space	30
132 - Classroom		Design of Space	30
133 - Classroom		Design of Space	30
137 - Reference Room	29	9.3 m2/person	4
138 - Workroom	13	9.3 m2/person	1
5 New Portable Classrooms		Design of Space	5 x 30= 150
TOTAL OCCUPANT LOAD			668

Ontario Building Code Data Matrix Part 11 - Renovation of Existing Building		OBC Reference
11.00 Building Code Version:	O_Reg. 163/24 Last Amendment: O_Reg. 447/24	
11.01 Project Type:	<input type="checkbox"/> Addition <input type="checkbox"/> Change of use <input checked="" type="checkbox"/> Renovation <input type="checkbox"/> Addition and Renovation	[A] 1.3.3.B 3.9 "PORTABLE CLASSROOMS"
11.02 Major Occupancy Classification:	Description: Elementary School Portable Classrooms Occupancy Use: Portable classrooms A2-Assembly	3.1.2.1.(1), 2.1.4.1.(1) 10.1.1.2. and 11.2.1. 3.9
11.03 Superimposed Major Occupancies:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	11.2.3.2.2.5 to 3.2.2.8 and 2.2.1
11.04 Building Area (m ²):	Description: EXISTING SCHOOL-PART 1 (EAST) 1752, EXISTING SCHOOL-PART 2 (WEST) 1793, 5 PORTABLES (5x74m ²) 370. Total: 3545. Existing: 1752, 1793, 370. New: -, -, 370. Total: 1752, 1793, 3915.	[A] 1.4.1.2. 11.2 and 11.3 3.9
11.05 Building Height:	1 Storeys above grade +15.0 (m) Above grade, Storeys below grade Portables only.	[A] 1.4.1.2. 3.2.1.1, 2.2.2.2 and 11.3
11.06 Number of streets/ fire fighter access:	1 street(s)	3.2.2.10, 3.2.5, 2.2.4.1 and 11.3 3.9.3.4
11.07 Building Size:	<input checked="" type="checkbox"/> Small <input type="checkbox"/> Medium <input type="checkbox"/> Large <input type="checkbox"/> > Large (PORTABLES ONLY)	11.2.1.1 and 11.2.1.1.B-N.
11.08 Existing Building Classification:	Change in Major Occupancy: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not Applicable (no change of major occupancy) Construction Index: 4 Hazard Index: 3 Importance Category: <input type="checkbox"/> Low <input checked="" type="checkbox"/> Normal <input type="checkbox"/> High <input type="checkbox"/> Post-disaster	10.1.1.2, 11.2.1.1 11.2.1.1A 11.1.2.1.18 to N, 4.1.2.(3), 2.3.1 & 5.2.2.1(2)
11.09 Renovation Type:	<input checked="" type="checkbox"/> Basic Renovation <input type="checkbox"/> Extensive Renovation	11.3.3.1 & 11.3.3.2
11.10 Occupant Load:	Floor Level/ Area: EX SCHOOL + 5 PORTABLES. Occupancy Type: classroom. Based On: 668. Occup. Load (persons): 668.	3.1.17, 2.1.2.2 and 11.4.2.2.
11.11 Plumbing Fixture Requirements:	Ratio: Male/Female = 50:50 Except as noted otherwise Floor level/ Area: 668. Occupant Load: 668. OBC Reference: 3.7.4.3.(14). WC's Required: 36. WC's Provided: 36. M=12, F=13.	3.7.4, 11.3.4, 11.3.5, 11.4.2.4 & 11.4.2.5 N/A 3.9.3.8
11.11 Plumbing Fixture Requirements: cont.	Floor level/ Area (Repeated): 668. B.F. WC's Required: 3. B.F. WC's Provided: 4. Universal Washrooms Required: 1. Universal Washrooms Provided: 1.	Tables 3.8.2.3.A and 3.8.2.3.B N/A 3.9.3.8
11.12 Barrier-free Design:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Explanation: Barrier-free Entrances: Number EXIST. Explanation:	11.3.1.2, 11.3.2, 11.3.3.2 3.9.3.9
11.13 Reduction in Performance Level:	Structural: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes By increase in occupant load: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes By change of major occupancy: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Plumbing: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Sewage - system: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Extension of buildings of combustible construction: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	11.4.2.1 11.4.2.2 11.4.2.3 11.4.2.4 11.4.2.5 11.4.2.6 11.4.2.6
11.14 Compensating Construction:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Structural: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes By increase in occupant load: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes By change of major occupancy: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Plumbing: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Sewage - system: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Extension of buildings of Combustible Construction: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	11.4.2.1 11.4.2.2 11.4.2.3 11.4.2.4 11.4.2.5 11.4.2.6 11.4.2.7
11.15 Compliance Alternatives Proposed:	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	11.5.1.
11.16 Alternative Solutions:	N/A	[A] 1.2.1.1, and [C]2.1
11.17 Notes:		3.9

WASHROOM CALCULATIONS	
668 / 2 = 334 Females & 334 Male	
Female Fixtures 334 people/ 26 fix/person = 13 required	
Male Fixtures 334 people/ 30 fix/person = 12 required	
FIXTURES PROVIDED	
Male Fixtures - 12	
Female Fixtures - 10	
Staff and Single Use Shared - 5	
Kindergarten Shared - 4	
Barrier Free - 4	
Universal - 1	
Total Provided - 36	

DO NOT SCALE THE DRAWINGS.
CHECK AND VERIFY ALL DIMENSIONS AT THE SITE.
ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF THE CONSULTANT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS IN PART OR WHOLE WITHOUT THE PERMISSION OF THE CONSULTANT IS FORBIDDEN.
DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION UNTIL SIGNED AND SEALED BY THE CONSULTANT.



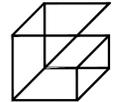
NO.	ISSUES/ REVISIONS	DATE	BY
1	ISSUED FOR PERMIT & TENDER	MAR. 12 2026	BBA

CONSULTANTS

ARCHITECTURAL/STRUCTURAL:

BBA
BARRY BRYAN ASSOCIATES
Architects Project Managers Engineers
250 Water Street
Suite 201
Whitby Ontario L1N 0G5
Tel: (905) 666-5252
Fax: (905) 666-5256
email: bba@bbareceng.com

MECHANICAL:



Giallonardo
Engineering Inc.
220-4550 Highway 7
Woodbridge, ON
L4L 4V7
(905) 265-1052
info@giallonardoeng.com
www.giallonardoeng.com

ELECTRICAL:

DYNAMIC DESIGNS AND ENGINEERING INC.
111 Hodgson Ave. Kettleby, Ontario L7B 0C7
Tel. (905) 841-7278
dymeng@rogers.com



PROJECT:
SUSANNA MOODIE
PUBLIC SCHOOL
WASHROOM RENOVATION

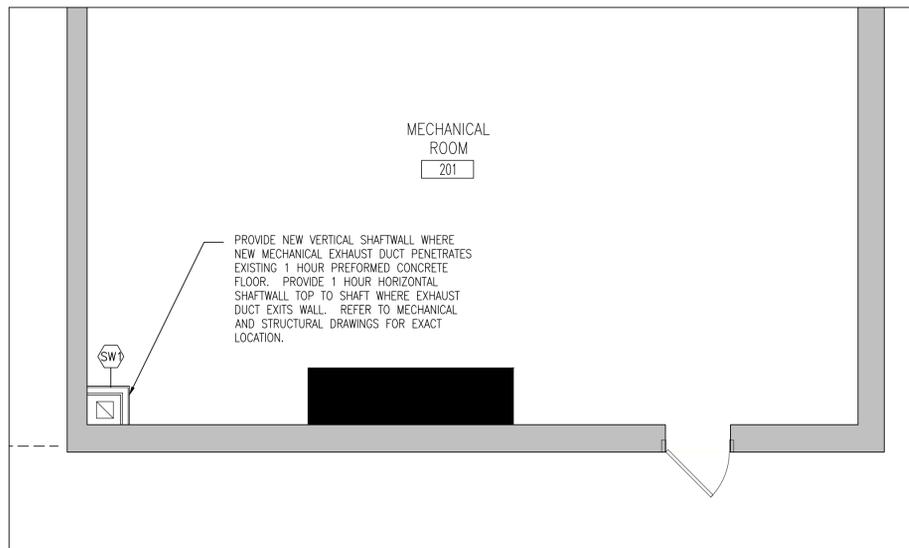
376 AVONLOUGH ROAD
BELLEVILLE, ONTARIO
HASTINGS & PRINCE EDWARD DISTRICT SCHOOL BOARD

DRAWING:
OBC MATRIX, KEY PLAN
AND DRAWING LIST

DESIGN BY: BBA
DRAWN BY: BBA
CHECKED BY: RS
DATE: 2026-03-02
SCALE: AS SHOWN
PROJECT NO: 25030
DRAWING NO: A000



25030 A000

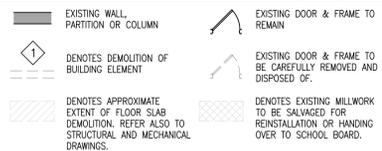


2 PART SECOND FLOOR MECHANICAL PLAN - NEW
A202 1:40

TYPICAL DEMOLITION NOTES

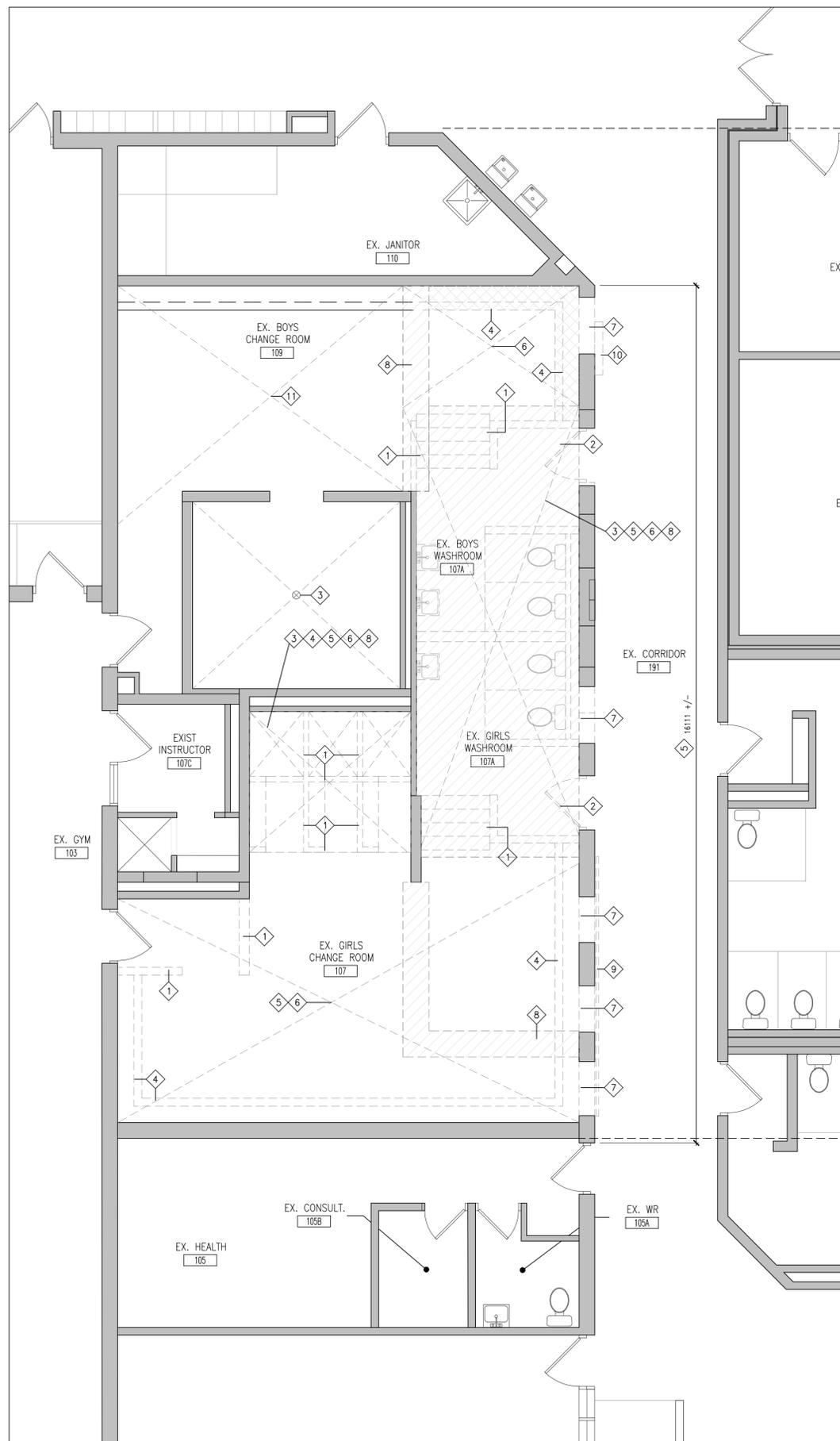
1. SITE VERIFY ALL DIMENSIONS AND CONDITIONS. REPORT DISCREPANCIES TO THE CONSULTANTS.
2. ALL WORK TO BE IN ACCORDANCE WITH THE ONTARIO BUILDING CODE.
3. COMPLY WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT REGULATIONS FOR CONSTRUCTION PROJECTS.
4. PROVIDE PROTECTION IN LOCATIONS APPROVED BY THE OWNER AND CONSULTANT SO AS NOT TO DAMAGE EXISTING STRUCTURE, LANDSCAPE OR PART THEREOF.
5. COMPLETE ALL DEMOLITION WORK NECESSARY TO COMPLETE THE RENOVATIONS AS SHOWN AND AS REQUIRED. DEMOLITION OF BUILDING ELEMENTS INCLUDES BUT NOT LIMITED TO COMPLETE REMOVAL OF ALL ASSOCIATED FIXTURES, FITTINGS, HARDWARE, FASTENERS, EQUIPMENT AND ACCESSORIES UNLESS NOTED OTHERWISE.
6. ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DEMOLITION DRAWINGS ARE COMPLEMENTARY AND SHALL BE READ TOGETHER.
7. PROVIDE ALL SHORING AS REQUIRED. SHORING SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER.
8. NOTIFY CONSULTANT OF LOAD BEARING MEMBERS OR ASSEMBLIES IDENTIFIED OR DISCOVERED DURING WORK AND NOT INDICATED ON DRAWINGS. DO NOT PROCEED WITH REMOVALS WITHOUT PRIOR REVIEW BY THE CONSULTANT.
9. PROVIDE TEMPORARY SUPPORT OF PIPES, DUCTS AND ELECTRICAL CHASES AS REQUIRED FOR SAFE REMOVAL. EXISTING AND PROPOSED SUPPORTS ARE TO BE REVIEWED BY THE CONSULTANT PRIOR TO THE REMOVAL OF ANY COMPONENTS WHICH MAY FALL OR CAUSE OTHERS TO FALL.
10. MAINTAIN ALL WORK AREAS AND ALL STORAGE AREAS CLEAN AND ORDERLY AT ALL TIMES INCLUDING EXISTING AREAS THAT REMAIN IN OPERATION DURING CONSTRUCTION. DUST CONTROL MEASURES ARE TO BE IN PLACE AT ALL TIMES AND NOISY WORK SHALL BE COORDINATED AROUND PROGRAM EVENTS.
11. REMOVAL OF EXISTING FLOOR FINISHES IS TO INCLUDE COMPLETE REMOVAL OF BASE AND ALL MORTAR AND ADHESIVES AND PREPARATION OF EXISTING SUBSTRATES TO RECEIVE NEW FLOORING, SATISFACTORY TO THE MANUFACTURER OF NEW FLOOR FINISHES. ALLOW FOR EXCESSIVE LEVELING OF SLABS.
12. DEMOLITION INCLUDES ALL ASSOCIATED MECHANICAL AND ELECTRICAL SERVICES, EQUIPMENT, FITTINGS, FIXTURES, HANGERS, BRACKETS, TRIM AND ACCESSORIES AS REQUIRED TO COMPLETE THE WORK.
13. SAWCUT, BREAK OUT AND MAKE GOOD (MATCH EXISTING U.N.O.) ALL EXISTING FLOOR SLABS WHERE REQUIRED TO INSTALL NEW UNDERGROUND PLUMBING AND OTHER BURIED SERVICES AS INDICATED AND AS REQUIRED ON MECHANICAL AND ELECTRICAL DRAWINGS.
14. REMOVAL OF DOORS AND FRAMES IS TO INCLUDE REMOVAL OF ALL HARDWARE.
15. REMOVE ALL PROTRUSIONS IN FLOOR SLAB AND GRIND DOWN TO FLOOR LEVEL.
16. CLEAN, PATCH / REPAIR ALL EXISTING SURFACES TO REMAIN TO RECEIVE NEW FINISHES. ALLOW FOR REMOVAL OR SCARIFICATION OF EXISTING PAINT FINISH ON WALLS THAT ARE TO RECEIVE NEW WALL TILE FINISH. REMOVE ALL MORTAR, ADHESIVES AND RUST AS REQUIRED TO PREPARE EXISTING SUBSTRATES TO RECEIVE NEW PAINT FINISHES.
17. DISCONNECT AND CAP OFF ALL SERVICES PRIOR TO DEMOLITION.
18. DISPOSE OF MATERIALS OFF SITE.
19. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING STRUCTURE OR FINISHES SHOWN TO REMAIN AND REPAIR /REPLACE SAME TO THE SATISFACTION OF THE OWNER AND CONSULTANT.
20. BUILDING TO BE SECURED BY THE G.C. AT ALL TIMES.
21. REFER TO "DESIGNATED SUBSTANCES SURVEY-PRE-RENOVATION, ECOLE ELEMENTAIRE JEANNE-LAJOIE, 150 CARNFORTH ROAD, TORONTO, ONTARIO" DATED MARCH 24 2025, AND "ASBESTOS ABATEMENT SPECIFICATIONS, ECOLE ELEMENTAIRE JEANNE-LAJOIE, 150 CARNFORTH ROAD, TORONTO, ONTARIO" DATED MARCH 2025, PREPARED BY ARCADIS PROFESSIONAL SERVICES (CANADA) INC. DESIGNATED SUBSTANCES AND HAZARDOUS MATERIALS REMOVALS SHALL COMPLY WITH CURRENT LEGISLATION.
22. PATCH, REPAIR & MAKE GOOD ALL SURFACES AFFECTED BY THE WORK, INCLUDING BUT NOT LIMITED TO WALL, PATCHING, PAINTING, MILLWORKS, FLOORING AND CEILING.

DEMOLITION LEGEND



DEMOLITION NOTES

1. REMOVE EXISTING MASONRY WALL AS REQUIRED FOR NEW WORK. PATCH, REPAIR AND MAKE GOOD AFFECTED SURFACES AS REQUIRED FOR NEW WORK (SHORE STRUCTURE AS REQUIRED). WHERE WALLS ARE REMOVED IN AREAS OF EXISTING TERRAZZO FLOOR FINISH: REMOVE TERRAZZO FLOOR FINISH IN NEAR LINEAR SECTIONS. INFILL SECTION WITH NEW CONCRETE AND POLISH.
2. REMOVE AND DISPOSE INTERIOR DOORS & FRAMES. PATCH, REPAIR AND MAKE GOOD ALL SURFACES AS REQUIRED FOR NEW FINISHES.
3. REMOVE AND DISPOSE OF EXISTING PLUMBING FIXTURES. PATCH, REPAIR & MAKE GOOD ALL SURFACES FOR NEW WORK.
4. REMOVE AND EXISTING WOOD BENCHES AND OVERHEAD CUBBIE MILLWORK SHOWN DASHED. KEEP MILLWORK IN SAFE LOCATION AS INDICATED BY HPEDSB REPRESENTATIVE. REINSTALL PART OF EXISTING BENCHES, STEEL SUPPORTS AND OVERHEAD CUBBIES IN NEW LOCATION AS SHOWN IN NEW WORK. ANY MILLWORK LEFT THAT HPEDSB DOES NOT WANT TO BE DISPOSED. PATCH, REPAIR & MAKE GOOD ALL SURFACES.
5. REMOVE AND DISPOSE OF EXISTING CT WALL BASE. PREPARE WALL AS REQUIRED FOR NEW FINISHES.
6. REMOVE AND DISPOSE OF EXISTING GYPSUM CEILING AND ASSOCIATED SUPPORT SYSTEM IN ITS ENTIRETY INCLUDING LIGHTS, DIFFUSERS, GRILLES AND OTHER ELECTRICAL OR FIRE ALARM DEVICES. REFER ALSO TO MECHANICAL AND ELECTRICAL DRAWINGS.
7. SAWCUT OPENING, REMOVE AND DISPOSE OF EXISTING MASONRY FOR NEW OPENING. SHORE STRUCTURE AS REQUIRED. PATCH, REPAIR & MAKE GOOD AS REQUIRED FOR NEW WORK.
8. REMOVE AND DISPOSE OF EXISTING TERRAZZO FLOOR FINISH IN THIS AREA. PREPARE FLOOR IN THIS AREA FOR NEW POLISHED CONCRETE FINISH.
9. REMOVE EXISTING TACK BOARDS AND REINSTALL IN NEW LOCATION AS DETERMINED BY OWNER. PATCH AND MAKE GOOD EXISTING WALL FINISHES.
10. REMOVE EXISTING MECHANICAL RADIATOR. PATCH AND MAKE GOOD AS REQUIRED FOR NEW WORK.
11. PATCH AND MAKE GOOD EXISTING GYPSUM BOARD CEILING AS REQUIRED FOR NEW MECHANICAL AND ELECTRICAL WORK. EXISTING ACCESS PANELS TO CEILING TO BE MAINTAINED.



1 PART DEMOLITION PLAN
A202 1:50

DO NOT SCALE THE DRAWINGS.
CHECK AND VERIFY ALL DIMENSIONS AT THE SITE.
ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF THE CONSULTANT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS IN PART OR WHOLE WITHOUT THE PERMISSION OF THE CONSULTANT IS FORBIDDEN.
DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION UNTIL SIGNED AND SEALED BY THE CONSULTANT.



NO.	ISSUES/ REVISIONS	DATE	BY
1	ISSUED FOR PERMIT & TENDER	MAR. 12 2026	BBA



PROJECT:
SUSANNA MOODIE
PUBLIC SCHOOL
WASHROOM RENOVATION

376 AVONLOUGH ROAD
BELLEVILLE, ONTARIO
HASTINGS & PRINCE EDWARD DISTRICT SCHOOL BOARD

DRAWING:
PART GROUND FLOOR
DEMOLITION PLAN & PART
MECH. ROOM NEW WORK

DESIGN BY: BBA
DRAWN BY: BBA
CHECKED BY: BBA
DATE: JAN. 2026
SCALE: AS NOTED

SEAL:
ONTARIO ASSOCIATION
OF
ARCHITECTS
RHONDA SUKUMARAN
LICENCE
7851

PROJECT NO: 25030
DRAWING NO: A202

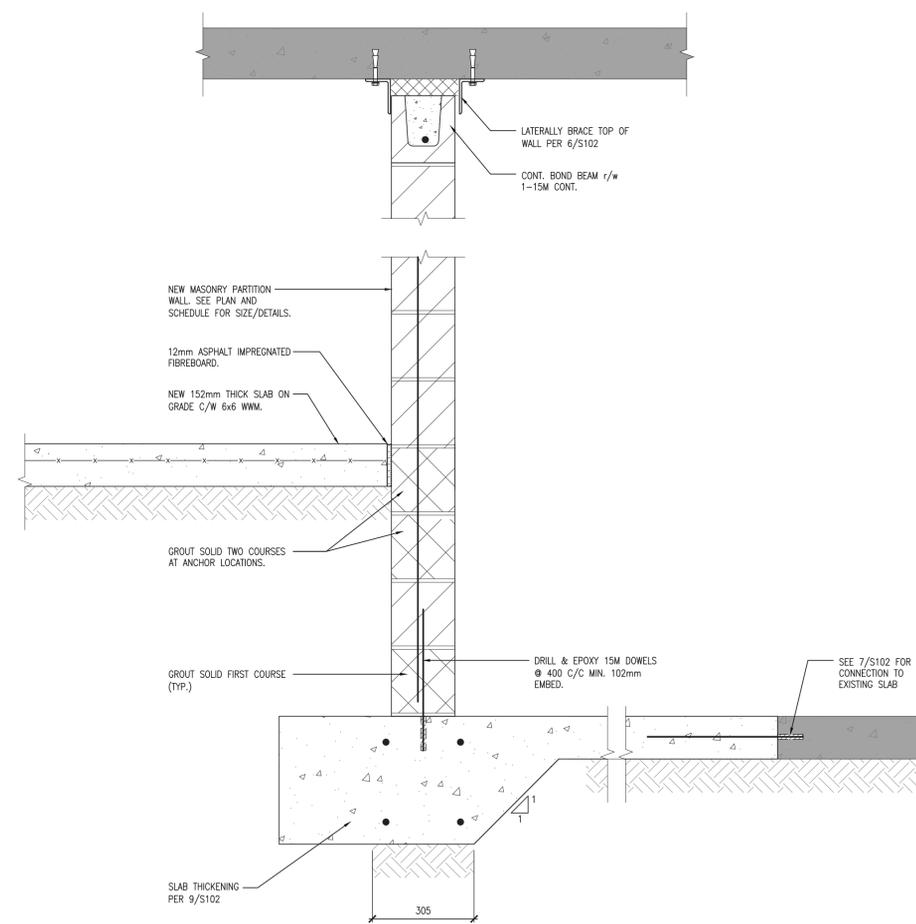
DO NOT SCALE THE DRAWINGS.
CHECK AND VERIFY ALL DIMENSIONS AT THE SITE.

ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF THE CONSULTANT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS IN PART OR WHOLE WITHOUT THE PERMISSION OF THE CONSULTANT IS FORBIDDEN.

DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION UNTIL SIGNED AND SEALED BY THE CONSULTANT.



NO.	ISSUES/ REVISIONS	DATE	BY
1	ISSUED FOR PERMIT/TENDER	MAR. 11 2026	BBA



1 SECTION
S203
1:10

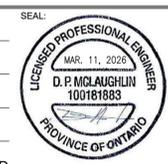


PROJECT:
SUSANNA MOODIE
PUBLIC SCHOOL
WASHROOM RENOVATION

376 AVONLOUGH ROAD
BELLEVILLE, ONTARIO
HASTINGS & PRINCE EDWARD DISTRICT SCHOOL BOARD

DRAWING:
SECTION

DESIGN BY: SJ
DRAWN BY: LS
CHECKED BY: SJ
DATE: 26-02-17
SCALE: AS NOTED

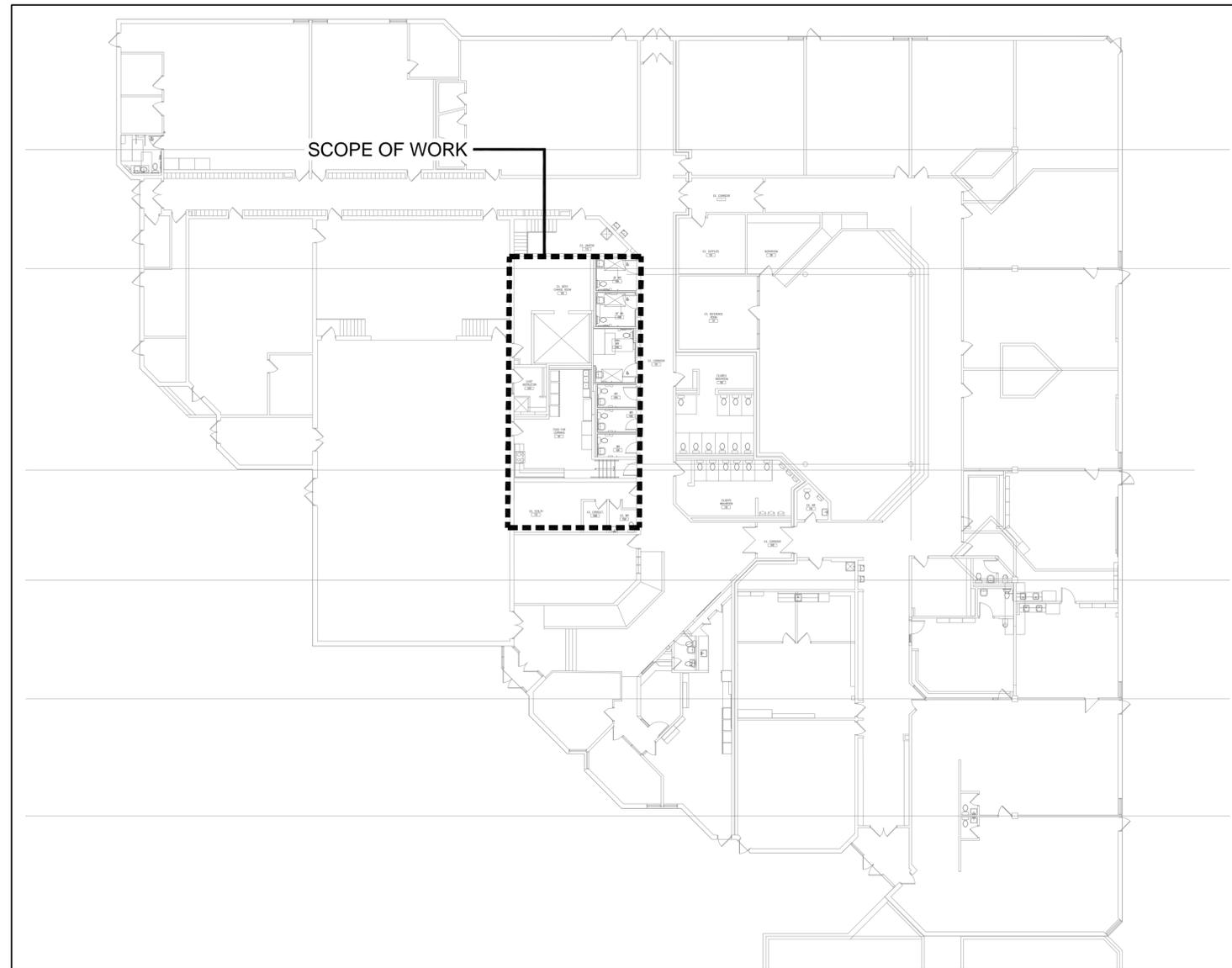


PROJECT NO: **25030**
DRAWING NO: **S203**

SUSANNA MOODIE PUBLIC SCHOOL WASHROOM RENOVATION

376 AVONLOUGH ROAD
BELLEVILLE, ON

MECHANICAL DRAWINGS



1
M-0
KEYPLAN
NTS

DRAWING LIST	
DWG. NO.	DRAWING NAME
M-0	TITLE SHEET
M-1.1	MECHANICAL SPECIFICATIONS I
M-1.2	MECHANICAL SPECIFICATIONS II
M-1.3	MECHANICAL LEGEND
M-1.4	MECHANICAL SCHEDULES AND DETAILS
M-1.5	MECHANICAL DETAILS II
M-1.6	MECHANICAL DETAILS III
M-2.1	PART GROUND FLOOR PLAN - HVAC DEMOLITION
M-2.2	PART GROUND FLOOR PLAN - HYDRONICS DEMOLITION
M-2.3	PART GROUND FLOOR PLAN - HVAC NEW
M-2.4	PART MECHANICAL ROOM - HVAC NEW
M-2.5	PART GROUND FLOOR PLAN - HYDRONICS NEW
M-3.1	PART GROUND FLOOR PLAN - PLUMBING DEMOLITION
M-3.2	PART GROUND FLOOR PLAN - DRAINAGE DEMOLITION
M-3.3	PART GROUND FLOOR PLAN - PLUMBING NEW
M-3.4	PART GROUND FLOOR PLAN - DRAINAGE NEW

DO NOT SCALE THE DRAWINGS.
CHECK AND VERIFY ALL DIMENSIONS AT THE SITE.
ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF THE CONSULTANT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS IN PART OR WHOLE WITHOUT THE PERMISSION OF THE CONSULTANT IS FORBIDDEN.
DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION UNTIL SIGNED AND SEALED BY THE CONSULTANT.



NO.	ISSUES/ REVISIONS	DATE	BY
1	ISSUED FOR REVIEW	2026-03-04	G.G.
2	ISSUED FOR PERMIT AND TENDER	2026-03-11	G.G.



This drawing is the property of GALLONARDO ENGINEERING INC.
This drawing shall be read in conjunction with the architectural, structural, electrical and all other consultant's drawings prior to proceeding with the work. Do not scale the drawings.
The contractor is to verify and accept responsibility for all dimensions and conditions on site and must notify GALLONARDO ENGINEERING INC. of any variations from the drawings.



PROJECT:
SUSANNA MOODIE
PUBLIC SCHOOL
WASHROOM RENOVATION

376 AVONLOUGH ROAD
BELLEVILLE, ONTARIO
HASTINGS & PRINCE EDWARD DISTRICT SCHOOL BOARD

DRAWING:
TITLE SHEET

DESIGN BY: JH
DRAWN BY: RC
CHECKED BY: JH
DATE: JAN. 2026
SCALE: AS SHOWN



PROJECT NO: 25030
DRAWING NO: M-0

PLUMBING SPECIFICATIONS
<p>1. PROVIDE PLUMBING SYSTEMS AS PER DRAWINGS, SPECIFICATIONS, THE LATEST EDITION OF THE ONTARIO BUILDING CODE, MUNICIPAL BY-LAWS AND THE AUTHORITY HAVING JURISDICTION. THE TERM "SYSTEMS" REFERS TO ALL PIPING, FITTINGS, SUPPORTS, CURBS, ACCESSORIES, ETC.</p> <p>2. ALL ITEMS REQUIRED FOR PLUMBING SYSTEMS SHALL BE CSA APPROVED UNLESS OTHERWISE NOTED.</p> <p>3. <u>CLEANING, FLUSHING AND DISINFECTING OF DOMESTIC WATER PIPING</u></p> <p>3.1. FOLLOW PROCEDURES AS OUTLINED IN THE LATEST EDITION OF STANDARD AWMA C651. ENSURE THAT THE METHODS COMPLY WITH LOCAL BY-LAWS.</p> <p>3.2. PREVENT CONTAMINATING MATERIAL FROM ENTERING THE SYSTEM DURING STORAGE, CONSTRUCTION AND REPAIR.</p> <p>3.3. REMOVE AND FLUSH ALL FOREIGN MATTER THAT HAS ENTERED THE PIPING.</p> <p>3.4. PROTECT THE EXISTING DISTRIBUTION SYSTEM FROM BACKFLOW DUE TO HYDROSTATIC PRESSURE AND DISINFECTION PROCEDURES.</p> <p>3.5. CHLORINATE RESIDUAL CONTAMINATION THAT MAY REMAIN AND FLUSH THE CHLORINATED WATER WHEN COMPLETE. FOLLOWING THIS, DETERMINE THE BACTERIOLOGICAL QUALITY OF THE WATER BY LABORATORY TESTING. CONNECT THE WATER SYSTEM ONLY WHEN TEST RESULTS INDICATE AN APPROVED AND DISINFECTED SYSTEM.</p> <p>4. <u>PIPING INSULATION</u></p> <p>4.1. PROVIDE PIPING INSULATION FOR PLUMBING SYSTEMS AS FOLLOWS:</p> <ul style="list-style-type: none"> - DCW: TYPE 'A', FOR ALL PIPE SIZES 1" THICK - DHW(R): TYPE 'A', UP TO 2" - 1" THICK, 2-1/2" AND UP - 1-1/2" THICK - CD (HORIZONTAL): TYPE 'A', 1/2" THROUGHOUT <p>4.2. <u>TYPE 'A':</u> JOHNS MANVILLE MICRO-LOK FIBER GLASS PIPE INSULATION COMPLETE WITH JACKET AND VAPOUR RETARDER. CONNECT SECTIONS OF INSULATION WITH BUTT STRIPS SUPPLIED BY THE INSULATION MANUFACTURER.</p> <p>4.3. FOR EXPOSED PIPING INSTALLED INDOORS AND/OR IN MECHANICAL ROOMS, RECOVER INSULATION WITH HEAVY-GAUGE PVC FITTINGS, COVER AND JACKETING EQUAL TO JOHNS MANVILLE ZESTON 300 SERIES.</p> <p>4.4. PROVIDE INSULATION ON PIPES GOING THROUGH FIRE RATED FLOORS AND WALLS AND FIT TIGHT TO THE FIRE STOP MATERIAL.</p> <p>4.5. HEATING WATER PIPING SHALL HAVE GLASS FIBRE PIPE INSULATION.</p> <p>5. MAKE ALL PIPING AND ELECTRICAL CONNECTION TO PUMPS AND MOTOR ASSEMBLIES AS SPECIFIED. REFER TO PUMP SCHEDULE (WHERE APPLICABLE).</p> <p>6. <u>PIPING MATERIALS (SEE BELOW FOR MATERIALS SPECIFICATIONS)</u></p> <p>6.1. <u>DCW AND DHW(R)</u></p> <p>6.1.1. ABOVE GROUND: TYPE 1</p> <p>6.1.2. UNDERGROUND: TYPE 2</p> <p>6.2. <u>SANITARY & STORM DRAINAGE PIPING</u></p> <p>6.2.1. ABOVE GROUND: TYPE 3, TYPE 4, TYPE 6 (WHERE PERMITTED)</p> <p>6.2.2. UNDERGROUND: TYPE 4 (2" MIN.), TYPE 5, TYPE 7</p> <p>6.3. <u>VENT PIPING</u></p> <p>6.3.1. ABOVE GROUND: TYPE 3, TYPE 4, TYPE 6 (WHERE PERMITTED)</p> <p>6.3.2. UNDERGROUND: TYPE 4, TYPE 5, TYPE 7</p> <p><u>TYPE 1:</u> TYPE L HARD DRAWN COPPER TUBING WITH WROUGHT COPPER FITTINGS AND LEAD-FREE SOLDER, CONTAINING LESS THAN .02 PERCENT LEAD, CONFORMING TO ASTM B32.</p> <p><u>TYPE 2:</u> TYPE K SOFT ANNEALED COPPER TUBING WITH NO JOINTS.</p> <p><u>TYPE 3:</u> TYPE DW COPPER TUBE AND FITTINGS WITH 95:5 TINANTIMONY SOLDER JOINTS.</p> <p><u>TYPE 4:</u> CAST IRON PIPING AND FITTINGS COMPLYING WITH CAN/CSA-B70. FOR MECHANICAL JOINTS ABOVE GRADE, USE NEOPRENE OR BUTYL RUBBER COMPRESSION GASKETS TO CAN/CSA-B70 WITH STAINLESS STEEL CLAMPS. FOR MECHANICAL JOINTS BELOW GRADE, USE MESSON HEAVYWEIGHT COUPLINGS FOR HUB AND SPIGOT CONNECTIONS, PROVIDE NEOPRENE GASKET TO CAN/CSA-B70 AND COLD CAULKING COMPOUNDS. DO NOT USE HUB AND SPIGOT FOR ABOVE GROUND APPLICATIONS.</p> <p><u>TYPE 5:</u> IPEX RING-TITE PVC SDR 35 SEWER PIPE IN COMPLIANCE WITH CSA B182.2 AND CSA B182.7. LATERALS WILL BE IPEX RING-TITE PVC SDR 28 IN COMPLIANCE WITH CSA B182.2.</p> <p><u>TYPE 6:</u> IPEX XFR PIPING AND FITTINGS COMPLYING WITH CSA B181.2, SCHEDULE 40 WITH A FLAME SPREAD RATING OF NOT GREATER THAN 25 AND A SMOKE DEVELOPED CLASSIFICATION OF LESS THAN 50.</p> <p><u>TYPE 7:</u> ROYAL ABS-DW PIPING AND FITTINGS CERTIFIED TO CSA B181.1.</p> <p>7. <u>VALVES</u></p> <p>7.1. PROVIDE ASTM DOMESTIC WATER VALVES TO THE FOLLOWING KITZ FIGURE NUMBERS:</p> <p>7.1.1. <u>GATE VALVES</u></p> <p>7.1.1.1. 2" AND SMALLER: SOLDERED, 1400 kPa [200psi] W.O.G. FIG. 44</p> <p>7.1.1.2. 2-1/2" AND LARGER: FLANGED, 1400 kPa [200psi] W.O.G. FIG. 44</p> <p>7.1.2. <u>GLOBE VALVES</u></p> <p>7.1.1.1. 2" AND SMALLER: SOLDERED, 2070 kPa [300 psi], W.O.G. FIG. 10 WITH SUITABLE COMPOSITION DISC.</p> <p>7.1.1.2. 2-1/2" AND LARGER: FLANGED, 1400 kPa [200 psi], W.O.G. FIG. 76</p> <p>7.1.2. <u>STANDARD CHECK VALVES</u></p> <p>7.1.1.1. 2" AND SMALLER: SOLDERED, 2070 kPa [300 psi], W.O.G. FIG. 23</p> <p>7.1.1.2. 2-1/2" AND LARGER: FLANGED, 1400 kPa [200 psi], W.O.G. FIG. 78</p> <p>7.1.2. <u>BALL VALVES</u></p> <p>7.1.1.1. 2" AND SMALLER: BALL VALVES MAY BE PROVIDED AS A SUBSTITUTE FOR GATE AND GLOBE VALVES. PROVIDE BALL VALVES WITH BRASS OR BRONZE BODY, CHROME PLATED SOLID BALL, PTFE SEATS AND SEALS AND FULL PORT, KITZ FIG. 59</p> <p>7.2. PROVIDE ISOLATION VALVES FOR DOMESTIC HOT AND COLD WATER SYSTEMS AT MAIN PIPING, BRANCH PIPING AND AT FIXTURES AND EQUIPMENT.</p> <p>8. VERIFY ALL SITE CONDITIONS AFTER CONTRACT AWARD TO ENSURE THAT PIPING INVERTS ARE SUFFICIENT FOR THE RUNS SHOWN ON MECHANICAL DRAWINGS. REPORT DISCREPANCIES TO ENGINEER IMMEDIATELY.</p> <p>9. CARRY OUT TESTING ON ALL SYSTEMS INCLUDING SANITARY DRAINAGE SYSTEMS, STORM DRAINAGE SYSTEMS AND DOMESTIC WATER SYSTEMS AS PER PART 7.3.6 OF THE ONTARIO BUILDING CODE AND THE AUTHORITIES HAVING JURISDICTION. TESTS MAY INCLUDE, BUT ARE NOT LIMITED TO, A WATER TEST, BACKFLOW TEST, PRESSURE TEST, BALL TEST AND FINAL TEST.</p> <p>10. MAKE PROVISIONS FOR MAINTAINING THE SEAL OF ALL HUB DRAINS, FLOOR DRAINS, ETC. IN ACCORDANCE WITH THE ONTARIO BUILDING CODE. WHERE MECHANICAL OR ELECTRICAL DEVICES ARE USED, THE MINIMUM TUBING SIZE SHALL BE 3/8".</p> <p>11. PROVIDE FIRESTOPPING AT ALL FIRE-RATED WALL AND FLOOR ASSEMBLIES AS PER THE "GENERAL SPECIFICATIONS".</p> <p>12. COORDINATE EXACT LOCATIONS OF ALL PLUMBING FIXTURES WITH ALL TRADES AND ARCHITECTURAL/INTERIOR DESIGN DRAWINGS. DO NOT SCALE MECHANICAL DRAWINGS.</p> <p>13. WHERE PLUMBING FIXTURES ARE SPECIFIED, THE CONTRACTOR SHALL PROVIDE ALL ACCESSORIES AND APPURTENANCES TO PROVIDE A FULL AND COMPLETE INSTALLATION OF THE RESPECTIVE FIXTURE. THIS MAY INCLUDE, BUT IS NOT LIMITED TO, STOP VALVES, RISER PIPING, ESCUTCHEON PLATES, ETC.</p> <p>14. PROVIDE VENTING SYSTEMS IN ACCORDANCE WITH PART 7 OF THE ONTARIO BUILDING CODE.</p>

PLUMBING SPECIFICATIONS
<p>15. A BURIED WATER SERVICE PIPE SHALL BE SEPARATED FROM THE BUILDING DRAIN, BUILDING SEWER OR A PRIVATE SEWAGE DISPOSAL SYSTEM, BY NOT LESS THAN 2440 MM.</p> <p>15.1. A WATER SERVICE PIPE MAY BE CLOSER THAN 2440 MM OR BE PLACED IN THE SAME TRENCH WITH THE BUILDING DRAIN OR BUILDING SEWER IF:</p> <p>15.1.1. THE BOTTOM OF THE WATER SERVICE PIPE AT ALL POINTS IS AT LEAST 500 MM ABOVE THE TOP OF THE BUILDING DRAIN OR BUILDING SEWER, AND WHEN IN A COMMON TRENCH WITH THE BUILDING DRAIN OR BUILDING SEWER, THE WATER SERVICE PIPE IS PLACED ON A SHELF AT ONE SIDE OF THE COMMON TRENCH.</p> <p>15.1.2. THE WATER SERVICE PIPE IS CONSTRUCTED OF A SINGLE RUN OF PIPE WITH NO JOINTS OR FITTINGS BETWEEN THE STREET LINE OR SOURCE OF SUPPLY ON THE PROPERTY AND THE INSIDE FACE OF THE BUILDING, OR</p> <p>15.1.3. THE BUILDING DRAIN OR BUILDING SEWER IS CONSTRUCTED OF PIPING WHICH IS PRESSURE TESTED IN ACCORDANCE WITH SUBSECTION 7.3.7, AT 345 KPA.</p>

HYDRONIC SYSTEMS SPECIFICATIONS
<p>1. <u>PRODUCTS</u></p> <p>1.1. <u>PIPE</u></p> <p>1.1.1. PROVIDE SCHEDULE 40 (NPS) STEEL PIPE CONFORMING TO ASTM-A53/A53M, GRADE B</p> <p>1.2. <u>PIPE JOINTS</u></p> <p>1.2.1. FOR NPS 2" AND SMALLER, USE SCREWED FITTING WITH PTFE TAPE OR LEAD-FREE PIPE DOPE.</p> <p>1.2.2. FOR NPS 2-1/2" AND OVER: WELDED FITTINGS AND FLANGES TO CAN/CSA-W48.</p> <p>1.2.3. ROLL GROOVED: RIGID COUPLINGS TO CSA B242.</p> <p>1.2.4. FLANGES: PLAIN ASME B16.1, RAISED FACE, SLIP-ON OR WELD NECK TO ASME B16.5.</p> <p>1.2.5. ORIFICE FLANGES: SLIP-ON RAISED FACE, 2100 kPa.</p> <p>1.2.6. FLANGE GASKETS TO AWMA C111</p> <p>1.2.7. PIPE THREAD SHALL BE TAPERED.</p> <p>1.2.8. BOLTS AND NUTS TO ASME B18.2.1 AND ASME B18.2.2.</p> <p>1.2.9. ROLL GROOVED COUPLING GASKETS: NPS 2" TO 8", TYPE EHP, EPDM HIGH PERFORMANCE, -40°C TO 120°C FOR CONTINUOUS OPERATION.</p> <p>1.3. <u>FITTINGS</u></p> <p>1.3.1. SCREWED FITTINGS SHALL BE MALLEABLE IRON CONFORMING TO ASME B16.3, CLASS 150.</p> <p>1.3.2. PIPE FLANGES AND FLANGED FITTINGS:</p> <p>1.3.2.1. CAST IRON TO ASME B16.1, CLASS 125</p> <p>1.3.2.2. STEEL TO ASME B16.5</p> <p>1.3.3. BUTT-WELDED FITTINGS, STEEL, TO ASME B16.9.</p> <p>1.3.4. UNIONS SHALL BE MALLEABLE IRON CONFORMING TO ASTM-A47/A47M AND ASME B16.3.</p> <p>1.3.5. FITTINGS FOR ROLL GROOVED PIPING, MALLEABLE IRON TO ASTM-A47/A47M, DUCTILE IRON TO ASTM-A536.</p> <p>1.4. <u>VALVES</u></p> <p>1.4.1. <u>CONNECTIONS:</u></p> <p>1.4.1.1. NPS 2" AND SMALLER: SCREWED ENDS.</p> <p>1.4.1.2. NPS 2-1/2" AND LARGER: FLANGED OR GROOVED ENDS.</p> <p>1.4.2. <u>GATE VALVES</u> TO MSS-SP-70 AND MSS-SP-80 FOR ISOLATING EQUIPMENT, CONTROL VALVES, ETC.</p> <p>1.4.2.1. NPS 2" AND SMALLER: BRONZE, CLASS 125 RISING STEM, SOLID WEDGE DISC.</p> <p>1.4.2.2. NPS 2-1/2" AND OVER: CAST IRON, RISING STEM, SOLID WEDGE DISC, LEAD FREE BRONZE TRIM.</p> <p>1.4.3. <u>BUTTERFLY VALVES</u> TO MSS-SP-67 FOR ISOLATING CELLS OR SECTIONS OF MULTIPLE COMPONENT EQUIPMENT. FOR NPS 2-1/2" AND OVER: LUG TYPE OR GROOVED ENDS.</p> <p>1.4.4. <u>GLOBE VALVES</u> TO MSS-SP-80 AND 85 FOR THROTTLING, FLOW CONTROL AND EMERGENCY BYPASS.</p> <p>1.4.4.1. NPS 2" AND SMALLER: BRONZE, WITH PLUG DISC.</p> <p>1.4.4.2. NPS 2-1/2" AND OVER: CAST IRON, COMPOSITION BRONZE DISC AND BRONZE TRIM.</p> <p>1.4.5. <u>BALANCING FOR TAB</u></p> <p>1.4.5.1. NPS 2" AND SMALLER: COPPER ALLOY BODY THREADED, 2.1 MPa RATING, GLOBE STYLE, SELF SEALING MEASURING PORTS FOR TEMPERATURE AND PRESSURE PROBES, LOCKING TAMPER PROOF SETTING, WITH PLUG DISC. COMBINATION BALANCING VALVE, STRAINER AND DRAIN BALL VALVE MAY ALSO BE USED IN LIEU OF STANDARD VALVE.</p> <p>1.4.5.2. NPS 2-1/2" AND OVER: DUCTILE IRON BODY, FLANGED OR GROOVED CONNECTIONS, 1700 kPa RATING MINIMUM, GLOBE STYLE, SELF-SEALING MEASUREMENT PARTS FOR TEMPERATURE OR PRESSURE PROBES, LOCKING TAMPER PROOF SETTING.</p> <p>1.4.6. <u>DRAIN VALVES:</u> BRONZE, GATE, CLASS 125 NON-RISING STEM, SOLID WEDGE DISC.</p> <p>1.4.7. <u>SWING CHECK VALVES</u> TO MSS-SP-71</p> <p>1.4.7.1. NPS 2" AND SMALLER: BRONZE, CLASS 125 SWING WITH COMPOSITION DISC.</p> <p>1.4.7.2. NPS 2-1/2" AND OVER: CAST IRON, FLANGED OR GROOVED ENDS.</p> <p>1.4.8. <u>BALL VALVES:</u> FOR NPS 2" AND SMALLER, USE SCREWED END BALL VALVES CONSTRUCTED OF CAST HIGH TENSILE BRONZE CONFORMING TO ASTM-B16 OR ASTM-B62. SCREWED ENDS SHALL CONFORM TO ANSI-B1.20.1 WITH HEX SHOULDERS. BALL SHALL BE REPLACEABLE AND CONSTRUCTED OF EITHER STAINLESS STEEL OR HARD CHROME.</p> <p>2. <u>INSTALLATION OF PIPEWORK</u></p> <p>2.1. <u>EXECUTION</u></p> <p>2.1.1. MAKE ALL CONNECTIONS TO EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.</p> <p>2.1.2. PROVIDE VALVES AND UNIONS AT CONNECTION FOR MAINTENANCE/REPLACEMENT PURPOSES.</p> <p>2.1.3. PROVIDE DRAINS AT SYSTEM LOW POINTS, EQUIPMENT AND ISOLATING SECTIONS. INSTALL NPS 3/4" GATE OR GLOBE VALVE WITH HOSE END MALE THREAD, CAP AND CHAIN.</p> <p>2.1.4. PROVIDE AUTOMATIC AIR VENTS AT SYSTEM HIGH POINTS COMPLETE WITH ISOLATING VALVE.</p> <p>2.2. <u>CLEARANCES:</u> PROVIDE THE REQUIRED CLEARANCES AROUND EQUIPMENT, PIPING, SYSTEMS, ETC. TO RENDER THE NECESSARY SPACE REQUIREMENTS FOR SERVICE, INSPECTION, OPERATION, REPLACEMENT AND MAINTENANCE. REFER TO ALL MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR REQUIRED AND RECOMMENDED CLEARANCES.</p> <p>2.3. <u>DIELECTRIC FITTINGS:</u> WHERE DISSIMILAR METALS ARE JOINED, PROVIDE DIELECTRIC ISOLATING FITTINGS (COMPLETE WITH THERMOPLASTIC LINER), UNIONS OR BRONZE VALVES.</p> <p>2.4. <u>PIPEWORK INSTALLATION</u></p> <p>2.4.1. SCREWED FITTING CONNECTIONS SHALL BE COMPLETE WITH PIPE DOPE OR TEFLON TAPE.</p> <p>2.4.2. PROTECT ALL SYSTEM OPENINGS DURING CONSTRUCTION TO PREVENT THE ENTRY OF FOREIGN MATERIAL.</p> <p>2.4.3. INSTALL ALL PIPING, EQUIPMENT, ETC. TO BE PARALLEL OR PERPENDICULAR WITH BUILDING LINES.</p> <p>2.4.4. PROPERLY REAM AND REMOVE SCALE AND FOREIGN MATERIAL PRIOR TO ASSEMBLY.</p>

HYDRONIC SYSTEMS SPECIFICATIONS
<p>2.4.5. <u>VALVES</u></p> <p>2.4.5.1. INSTALL ALL VALVES IN ACCESSIBLE LOCATIONS FOR MAINTENANCE WITHOUT REMOVING ADJACENT PIPING.</p> <p>2.4.5.2. USE BALL OR BUTTERFLY VALVES AT BRANCH TAKE-OFFS FOR ISOLATING PURPOSES EXCEPT WHERE OTHERWISE SPECIFIED.</p> <p>2.4.5.3. INSTALL BUTTERFLY VALVES ON CHILLED WATER AND RELATED CONDENSER WATER SYSTEMS ONLY.</p> <p>2.4.5.4. INSTALL BALL VALVES FOR GLYCOL SERVICE.</p> <p>2.4.5.5. USE CHAIN OPERATORS ON VALVES NPS 2-1/2" AND LARGER WHERE INSTALLED MORE THAN 2400 MM ABOVE FLOOR IN MECHANICAL ROOMS.</p> <p>2.4.6. <u>CHECK VALVES</u></p> <p>2.4.6.1. INSTALL SILENT CHECK VALVES ON DISCHARGE OF PUMPS AND IN VERTICAL PIPES WITH DOWNWARD FLOW AND ELSEWHERE INDICATED.</p> <p>2.4.6.2. INSTALL SWING CHECK VALVES IN HORIZONTAL LINES ON DISCHARGE OF PUMPS AND ELSEWHERE AS INDICATED.</p> <p>2.4.7. WHERE PIPING PASSES THROUGH MASONRY, FIRE-RATED ASSEMBLIES, FOUNDATION WALLS, POURED WALLS, ETC., PROVIDE PIPE SLEEVES CONSTRUCTED OF SCHEDULE 40 BLACK STEEL PIPE. ALLOW FOR 0.25" OF CLEARANCE BETWEEN INSIDE OF SLEEVE AND OUTSIDE OF PIPE/INSULATION. SEAL WITH A FIRE RETARDANT AND WATERPROOF NON HARDENING MASTIC. WHERE SLEEVE IS INSTALLED IN A FIRE RATED ASSEMBLY, PROVIDE FIRESTOPPING CONFORMING TO ULC.</p> <p>2.4.8. PROVIDE ESCUTCHEON PLATES ON PIPING PASSING THROUGH FINISHED WALLS, FLOOR AND CEILINGS.</p> <p>2.4.9. PROPERLY FLUSH AND CLEAN SYSTEM AND REMOVE ALL FOREIGN MATTER PRIOR TO SYSTEM STARTUP. PREPARATORY TO ACCEPTANCE, CLEAN AND REFURBISH EQUIPMENT AND LEAVE IN OPERATING CONDITION, INCLUDING REPLACEMENT OF FILTERS IN PIPING SYSTEMS.</p> <p>2.4.10. PRESSURE TEST SYSTEM AND MONITOR FOR PRESSURE LOSS FOR A MINIMUM OF 4 HOURS, UNLESS OTHERWISE SPECIFIED.</p> <p>2.5. <u>HANGERS AND SUPPORTS</u></p> <p>2.5.1. UTILIZE PIPE HANGERS AND SUPPORTS CONSTRUCTED OF GALVANIZED STEEL.</p> <p>2.5.2. INSTALL HANGERS SO THAT RODS ARE VERTICAL. ENSURE LOAD EQUALIZATION WITH ROD ADJUSTMENT.</p> <p>2.5.3. FOR RISER CLAMPS, PROVIDE GALVANIZED BLACK CARBON STEEL, ULC LISTED OR FM APPROVED WHERE REQUIRED. BOLTS AND NUTS SHALL CONFORM TO ASTM-A307 AND ASTM-A563, RESPECTIVELY.</p> <p>2.5.4. FOR BASE-MOUNTED EQUIPMENT, PROVIDE CONCRETE HOUSE-KEEPING PADS 4" TALL AND 6" OF SPACE AROUND EQUIPMENT AND CHAMFERED EDGES.</p> <p>2.5.5. <u>HANGER SPACING</u></p> <p>2.5.5.1. PROVIDE HANGERS AT SPACING INDICATED BELOW AND AT EVERY JOINT AND CHANGE OF DIRECTION.</p> <p>2.5.5.2. PROVIDE HANGERS FOR VARIOUS PIPE SIZES AT THE FOLLOWING SPACING: 1-1/4" - 1.8 m, 1-1/2" - 2.4 m AND 2" - 2.7 m.</p> <p>2.6. <u>PIPING INSULATION</u></p> <p>2.6.1. PROVIDE PIPING INSULATION FOR THE HYDRONIC SYSTEMS AS FOLLOWS:</p> <p>2.6.1.1. HEATING WATER (HWS/HWR): TYPE 'A', UP TO 1" - 1" THICK, 1-1/4" AND LARGER - 1-1/2" THICK.</p> <p>2.6.1.2. CHILLED WATER (CHWS/CHWR): TYPE 'A', UP TO 1" - 1" THICK, 1-1/4" AND LARGER - 1-1/2" THICK. RECOVER WITH PVC JACKETING AS SPECIFIED BELOW.</p> <p>2.6.1.3. CONDENSER WATER (INDOOR CWS/CWR): NOT REQUIRED</p> <p>2.6.1.3. CONDENSER WATER (OUTDOOR, CWS/CWR): TYPE 'A', ALL SIZES - 1" THICK. RECOVER WITH PVC JACKETING AS SPECIFIED BELOW.</p> <p>2.6.2. TYPE 'A': JOHNS MANVILLE MICRO-LOK FIBRE GLASS PIPE INSULATION COMPLETE WITH JACKET AND VAPOUR RETARDER. CONNECT SECTIONS OF INSULATION WITH SELF-ADHESIVE BUTT STRIPS SUPPLIED BY THE INSULATION MANUFACTURER.</p> <p>2.6.3. FOR EXPOSED PIPING INSTALLED INDOORS AND/OR IN MECHANICAL ROOMS, RECOVER INSULATION WITH HEAVY-GAUGE PVC FITTINGS, COVER AND JACKETING EQUAL TO JOHNS MANVILLE ZESTON 300 SERIES.</p> <p>2.6.4. PROVIDE PRE-FORMED INSULATION FOR FITTINGS AND VALVES.</p> <p>3. <u>SYSTEM CHEMICAL TREATMENT</u></p> <p>3.1. PROVIDE SYSTEM CHEMICAL TREATMENT AFTER THE SYSTEM HAS BEEN CLEANED AND STARTED UP IN ACCORDANCE WITH THE MECHANICAL SPECIFICATIONS. THIS CONTRACTOR SHALL PAY FOR AND CONTRACT THE SERVICES OF THE BASE BUILDING CHEMICAL TREATMENT CONTRACTOR TO CARRY OUT THE CHEMICAL TREATMENT PROCESS.</p>

KITCHEN EXHAUST DUCTWORK
<p>KITCHEN AND GRILL HOOD (VENTILATOR) EXHAUST DUCTS:</p> <p>COMPLY WITH THE LATEST EDITION OF NFPA 96</p> <p>1. MATERIAL: 1.6MM (16 GAUGE) STEEL SHEET (BLACK IRON), ASTM A1011, OR 1.3MM (18 GAUGE) STAINLESS STEEL. USE STAINLESS STEEL FOR EXPOSED DUCT IN OCCUPIED AREAS. SEE OPTIONAL DUCT MATERIALS.</p> <p>2. CONSTRUCTION: LIQUID TIGHT WITH CONTINUOUS EXTERNAL WELD FOR ALL SEAMS AND JOINTS. WHERE DUCTS ARE NOT SELF DRAINING BACK TO THE EQUIPMENT, PROVIDE LOW POINT DRAIN POCKET WITH COPPER DRAIN PIPE TO SANITARY SEWER. PROVIDE ACCESS DOORS OR PANELS FOR DUCT CLEANING INSIDE OF HORIZONTAL DUCT AT DRAIN POCKETS, AT 6M (20FT) INTERVALS, AND AT EACH CHANGE OF DIRECTION.</p> <p>3. KITCHEN EXHAUST DUCTWORK SLOPE AS FOLLOWS:</p> <ul style="list-style-type: none"> - HORIZONTAL RUNS < 75FT @ 1/4" PER FT. - HORIZONTAL RUNS > 75FT @ 1" PER FT <p>4. ACCESS DOORS OR PANELS SHALL BE OF THE SAME MATERIAL AND THICKNESS OF THE DUCT WITH GASKETS AND SEALANTS THAT ARE RATED 815 DEGREES C (1500 DEGREES F) AND SHALL BE GREASE-TIGHT.</p> <p>FASTENERS, SUCH AS BOLTS, WELD STUDS, LATCHES, OR WING NUTS, USED TO SECURE THE ACCESS PANELS SHALL BE CARBON STEEL OR STAINLESS STEEL AND SHALL NOT PENETRATE THE DUCTWORK.</p> <p>LISTED GREASE DUCT ACCESS DOOR ASSEMBLIES (ACCESS PANELS) SHALL BE INSTALLED IN ACCORDANCE WITH THE TERMS OF THE LISTING AND MANUFACTURER'S INSTRUCTIONS.</p> <p>5. PROVIDE FIRE WRAP KITCHEN HOOD EXHAUST DUCTWORK FROM HOOD TO ECOLOGY UNIT ECU-1.</p> <p>DUCT WRAP SHALL BE 3M FIREMASTER DUCTWRAP CONSISTING OF TWO LAYERS OF 140MM [1-1/2"] THICK NON COMBUSTIBLE, FLEXIBLE FIREPROOF BLANKET FULLY ENCAPSULATED IN A FOIL SCRIM AND SUPPLIED IN ROLL FORM. THE WRAP MATERIAL SHALL BE APPLIED DIRECTLY ONTO THE INSTALLED DUCTWORK STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND THE ULC LISTING, DESIGN NO. FRD-3, GUIDE NO. 40 U21, FIRE RESISTANT DUCTS, AS TESTED TO ISO STANDARD 6944.</p> <p>6. KITCHEN EXHAUST DUCTWORK INSTALLATION CLEARANCES AS PER NFPA 96/2004</p> <p>0" CLEARANCES TO NON-COMBUSTIBLES 3" CLEARANCES TO LIMITED-COMBUSTIBLES 18" CLEARANCES TO COMBUSTIBLES, UNLESS PROTECTED</p>

DO NOT SCALE THE DRAWINGS.
CHECK AND VERIFY ALL DIMENSIONS AT THE SITE.

ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF THE CONSULTANT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS IN PART OR WHOLE WITHOUT THE PERMISSION OF THE CONSULTANT IS FORBIDDEN.

DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION UNTIL SIGNED AND SEALED BY THE CONSULTANT.



NO.	ISSUES/ REVISIONS	DATE	BY
1	ISSUED FOR REVIEW	2026-03-04	G.G.
2	ISSUED FOR PERMIT AND TENDER	2026-03-11	G.G.



Giallonardo —
Engineering Inc.
228-4558 Highway 7
Woodbridge, ON
L4L 4Y7
(905)265-1052
info@gei.ca | onard@gei.com
www.gei.onarddoing.com

This drawing is the property of
GIALLONARDO ENGINEERING INC.

This drawing shall be read in conjunction with the architectural, structural, electrical and all other consultant's drawings prior to proceeding with the work. Do not scale the drawings.

The contractor is to verify and accept responsibility for all dimensions and conditions on site and must notify GIALLONARDO ENGINEERING INC. of any variations from the drawings.



PROJECT:
SUSANNA MOODIE
PUBLIC SCHOOL
WASHROOM RENOVATION

376 AVONLOUGH ROAD
BELLEVILLE, ONTARIO
HASTINGS & PRINCE EDWARD DISTRICT SCHOOL BOARD

DRAWING:
MECHANICAL
SPECIFICATIONS II

DESIGN BY: JH	SCALE:
DRAWN BY: RC	AS SHOWN
CHECKED BY: JH	PROJECT NO:
DATE: JAN. 2026	DRAWING NO:
SCALE:	



25030 M-1.2

PLUMBING FIXTURE SCHEDULE						
TAG	FIXTURES				PIPE CONNECTION	
	SPECIFICATION				TRAP	VENT
WC1	FLOOR MOUNTED TOILET - VITREOUS CHINA - FOR FLUSHOMETER - MANUAL AMERICAN STANDARD 3451001.020 TOILET - MADERA FLOWISE, TOILET, FLOOR MOUNTED WITH FLOOR OUTLET, TOILET OPERATES IN THE RANGE OF 4.2 TO 6.0 LPF (1.1 - 1.6 GPF), VITREOUS CHINA, WHITE FINISH, EVERCLEAN ANTIMICROBIAL SURFACE, ELONGATED BOWL. GENTOCO 1500STSC00SFF-001 SEAT - OPEN FRONT TOILET SEAT WITHOUT COVER, FOR ELONGATED BOWL, WHITE POLYPROPYLENE PLASTIC, COLOR-MATCHED PLASTIC SELF-SUSTAINING CHECK HINGES WITH ONE SOLID METAL HINGE PIN AND BOLT. SLOAN REGAL 111-1.28-XO-YO FLUSH VALVE - REGAL MANUAL EXPOSED WATER CLOSET FLUSHOMETER, CONSTRUCTED FROM SEMI-RED BRASS, POLISHED CHROME FINISH, HIGH EFFICIENCY 4.8 LPF (1.28 GPF). PROVIDE TOILET FLANGE AND ALL OTHER ACCESSORIES REQUIRED FOR A FULL AND COMPLETE INSTALLATION.				75ø	38ø
WC2	FLOOR MOUNTED TOILET - VITREOUS CHINA - FOR FLUSHOMETER - MANUAL - BARRIER FREE AMERICAN STANDARD 3451001.020 TOILET - MADERA FLOWISE, TOILET, FLOOR MOUNTED WITH FLOOR OUTLET, TOILET OPERATES IN THE RANGE OF 4.2 TO 6.0 LPF (1.1 - 1.6 GPF), VITREOUS CHINA, WHITE FINISH, EVERCLEAN ANTIMICROBIAL SURFACE, ELONGATED BOWL. GENTOCO H1500STSC00-001 SEAT - OPEN FRONT ASSISTANCE 2" RAISED TOILET SEAT WITHOUT COVER, FOR ELONGATED BOWL, WHITE POLYPROPYLENE PLASTIC, WITHOUT FIRE RETARDANT ADDITIVE, RAISED COLOR-MATCHED PLASTIC CHECK HINGES WITH ONE SOLID METAL HINGE PIN AND BOLT. SLOAN REGAL 111-1.28-XO-YO FLUSH VALVE - REGAL MANUAL EXPOSED WATER CLOSET FLUSHOMETER, CONSTRUCTED FROM SEMI-RED BRASS, POLISHED CHROME FINISH, HIGH EFFICIENCY 4.8 LPF (1.28 GPF). FRANKIE COMMERCIAL CM-16104 BACKREST - WALL MOUNTING, BACK REST, SOLID CORE PLASTIC LAMINATE PANEL BACK, ANTIQUE WHITE. PROVIDE TOILET FLANGE AND ALL OTHER ACCESSORIES REQUIRED FOR A FULL AND COMPLETE INSTALLATION.				75ø	38ø
L1	WALL MOUNT BASIN - MANUAL FAUCET AMERICAN STANDARD 9134001EC.020 BASIN - DECORUM, WALL-HUNG LAVATORY, VITREOUS CHINA, EVERCLEAN ANTIMICROBIAL SURFACE, WHITE FINISH, CENTER HOLE ONLY. AMERICAN STANDARD 7075104.002 FAUCET - COLONY, MANUAL, SINGLE HANDLE, LAVATORY FAUCET, HOT LIMIT SAFETY STOP LAWLER 570-86820 MIXING VALVE - POINT OF USE, THERMOSTATIC MASTER WATER MIXING CONTROL VALVE, LEAD FREE BRASS BODY CONSTRUCTION, NICKEL PLATED FINISH, 1.9 - 30 LPM (0.5 - 8 GPM) RANGE FOR FLOWRATE, 11 LPM (3 GPM) TEMPERED FLOWRATE @ 5 PSI PRESSURE DROP, 4-7/8" (124 MM) HEIGHT, 3/8" MNPT (9.5 MM) INLET, 95-115 °F OUTLET WATER TEMPERATURE RANGE, 3/8" MNPT (9.5 MM) OUTLET, INTERNAL CHECKS, OFFERS CHOICE OF TEMPERATURE SETTINGS FROM 95° THROUGH 115 °F, 125 PSI MAX HYDROSTATIC PRESSURE, ±20% PRESSURE VARIATION, 7 GPM FLOWRATE @ 45 PSI. WATTS WCA-411 CARRIER - WCA-411/WCA-411-WC, LAVATORY CARRIER, FOR CONCEALED ARM CARRIER, ADJUSTABLE ARMS, EPOXY COATED CAST IRON. PROVIDE FIXTURE DRAIN, P-TRAP, HEAVY DUTY LOOSE KEY ANGLE STOPS, FLEXIBLE RISERS AND ALL OTHER ACCESSORIES REQUIRED FOR A FULL AND COMPLETE INSTALLATION.				32ø	32ø
L2	WALL MOUNT BASIN - MANUAL FAUCET - BARRIER FREE AMERICAN STANDARD 9134001EC.020 BASIN - DECORUM, WALL-HUNG LAVATORY, VITREOUS CHINA, EVERCLEAN ANTIMICROBIAL SURFACE, WHITE FINISH, CENTER HOLE ONLY. AMERICAN STANDARD 0059.020EC SHROUD/KNEE GUARD - VITREOUS CHINA KNEE CONTACT GUARD. AMERICAN STANDARD 7075104.002 FAUCET - COLONY, MANUAL, SINGLE HANDLE, LAVATORY FAUCET, HOT LIMIT SAFETY STOP LAWLER 570-86820 MIXING VALVE - POINT OF USE, THERMOSTATIC MASTER WATER MIXING CONTROL VALVE, LEAD FREE BRASS BODY CONSTRUCTION, NICKEL PLATED FINISH, 1.9 - 30 LPM (0.5 - 8 GPM) RANGE FOR FLOWRATE, 11 LPM (3 GPM) TEMPERED FLOWRATE @ 5 PSI PRESSURE DROP, 4-7/8" (124 MM) HEIGHT, 3/8" MNPT (9.5 MM) INLET, 95-115 °F OUTLET WATER TEMPERATURE RANGE, 3/8" MNPT (9.5 MM) OUTLET, INTERNAL CHECKS, OFFERS CHOICE OF TEMPERATURE SETTINGS FROM 95° THROUGH 115 °F, 125 PSI MAX HYDROSTATIC PRESSURE, ±20% PRESSURE VARIATION, 7 GPM FLOWRATE @ 45 PSI. WATTS WCA-411 CARRIER - WCA-411/WCA-411-WC, LAVATORY CARRIER, FOR CONCEALED ARM CARRIER, ADJUSTABLE ARMS, EPOXY COATED CAST IRON. PROVIDE FIXTURE DRAIN AND P-TRAP EQUAL TO MCGUIRE 155A AND MCGUIRE 8872C, HEAVY DUTY LOOSE KEY ANGLE STOPS, FLEXIBLE RISERS AND ALL OTHER ACCESSORIES REQUIRED FOR A FULL AND COMPLETE INSTALLATION.				32ø	32ø
FD	FLOOR DRAIN WATTS FD-100NH-C-AS-1 FLOOR DRAIN - EPOXY COATED CAST IRON, FLOOR DRAIN, ADJUSTABLE ROUND 6 MM (1/4") THICK TOP, NO-HUB OUTLET, 127 MM (5") DIAMETER NICKEL BRONZE STRAINER, ANCHOR FLANGE, TRAP PRIMER TAPPING, REVERSIBLE MEMBRANE CLAMP, COLLAR WITH PRIMARY AND SECONDARY WEEPHOLES, 52 CM ² (8 SQ. IN) FREE AREA.				75ø	38ø
TSP	FLOW ACTIVATED TRAP PRIMER PEP PRO1-500-DU-4 TRAP PRIMER - FLOW ACTIVATED TRAP PRIMER, C68020 LEAD FREE BRASS, 0.1 LPM (0.25 GPM), 1/2" FNPT (12 MM) INLET, 1/2" FIP (12 MM) OUTLET, NEOPERL CHECK VALVE, GREY PVC CHECK VALVE ADAPTER, STAINLESS STEEL SCREEN, COPPER BODY DISTRIBUTION UNIT WITH 4 - 3/8" FPT BRASS DISCHARGE FITTINGS AND 13 MM (1/2") MALE NPT COMPOSITE INLET.				-	-
S1	KITCHEN SINK - TRIPLE COMPARTMENT - MANUAL FAUCET FRANKIE COMMERCIAL RTL2454R-1-2 SINK - FLOOR MOUNTED, TRIPLE COMPARTMENT SINK, CONSTRUCTED FROM GRADE 18-10 16 GAUGE TYPE 304 STAINLESS STEEL, 203 MM (8") CENTERSET, WITH OVERALL DIMENSION, 1984 MM (78-1/8") LONG, 775 MM (30-1/2") WIDE, 1118 MM (44") HIGH. CHICAGO FAUCETS 631-GNRECBOP FAUCET - MANUAL, TWO HANDLES, SINK FAUCET. PROVIDE FIXTURE DRAIN, P-TRAP, HEAVY DUTY LOOSE KEY ANGLE STOPS, FLEXIBLE RISERS AND ALL OTHER ACCESSORIES REQUIRED FOR A FULL AND COMPLETE INSTALLATION.				32ø	32ø
GI-1	GREASE REMOVAL DEVICE WD-CSA-135-2 - RECESSED EPOXY COATED GREASE INTERCEPTOR, FLOW RATE 132 L/MIN (35 USGPM), INCLUDING : A REMOVABLE BAFFLE, EXTERIOR FLOW REGULATOR, NH (M3) INLET AN OUTLET. GREASE INTERCEPTOR DRAIN DOWN TIME: TRIPLE POT SINK = 81.5 GAL FLOW RATE THROUGH GREASE INTERCEPTOR: 120 SECOND DRAIN DOWN TIME = 0.75 * 81.5 GAL / 2 = 30.5 GPM SELECT GREASE INTERCEPTOR WITH A MINIMUM OF 30.5 GPM FLOW RATE.				2ø	1-1/2ø

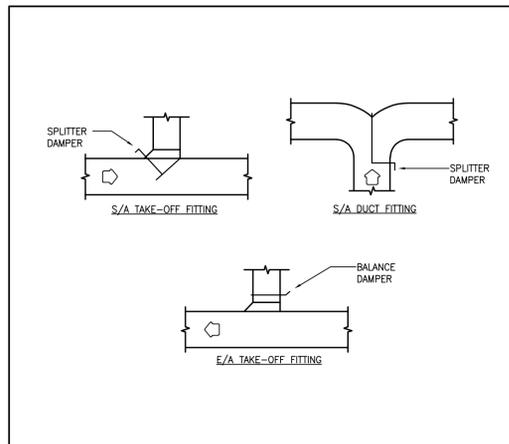
NOTES:
 1. REFER TO INTERIOR DESIGNER'S DRAWINGS FOR SPECIFICATIONS OF PLUMBING FIXTURES NOT LISTED ON MECHANICAL DRAWINGS.

DIFFUSER SCHEDULE				
TAG	MAKE/MODEL	FINISH	REMARKS	
A	EH PRICE MODEL 80 EGG CRATE GRILLE	-	1/2"x1/2"x1/2" ALUMINUM GRID CORE FOR DUCT MOUNTING C/W OPPOSED BLADE DAMPER. SIZE AS INDICATED ON DRAWINGS.	
B	EH PRICE MODEL RCD CONE S/A DIFFUSER	-	3-POSITION ADJUSTABLE FLOW. SET POSITION FOR VERTICAL DISCHARGE C/W BALANCING DAMPER AT DIFFUSER, OPTIONAL WIRE GUARD. SIZE AS INDICATED ON DRAWINGS.	
C	EH PRICE MODEL 80 EGG CRATE GRILLE	-	1/2"x1/2"x1/2" ALUMINUM GRID CORE, CORE ONLY FOR T-BAR CEILING INSTALLATION.	

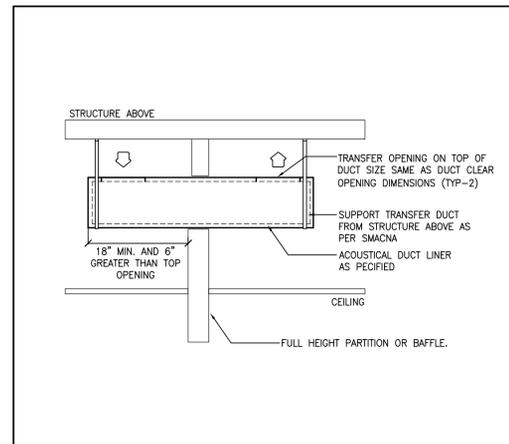
NOTES:
 1. SIZE ALL GRILLES, DIFFUSERS, ETC. AS PER MECHANICAL DRAWINGS.
 2. CONFIRM ALL FINISHES WITH ARCHITECT/INTERIOR DESIGNER.

KITCHEN FAN SCHEDULE														
TAG	MANU.	MODEL	LOCATION	SERVICE	CAP. (CFM [L/S])	ESP (IN.WG. [PA])	RPM	DRIVE	TYPE	MOTOR (HP [KW])	V/PH/Hz	STARTER	WEIGHT (LBS [KG])	REMARKS
KEF-1	CANARM HVAC	BI-10RM RM CCW	ROOF	EXHAUST	560 [264]	1.5 [373.3]	1922	BELT	UTILITY VENT SET	1.0 [0.75]	208/3/60	REMOTE PANEL	78 [35]	UTILITY VENT SET, CONTINUOUSLY WELDED 16 GAUGE HOUSING, 2" FAN HOUSING DRAIN, SELF ALIGNING PILLOW BLOCK BEARINGS, ROTATABLE HOUSING, MANUFACTURER PROVIDED V-CAP HOUSING.

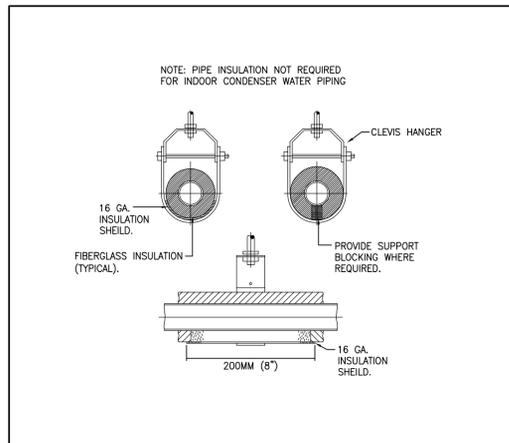
NOTES:
 1. ALL MOTORS, STARTERS, VFD'S, CONTACTORS, DISCONNECT SWITCHES AND CONTROL DEVICES SHALL BE PROVIDED BY DIV.23 AND INSTALLED BY DIV.26.
 2. ALL LOW VOLTAGE WIRING TO BE PROVIDED BY DIV.23.



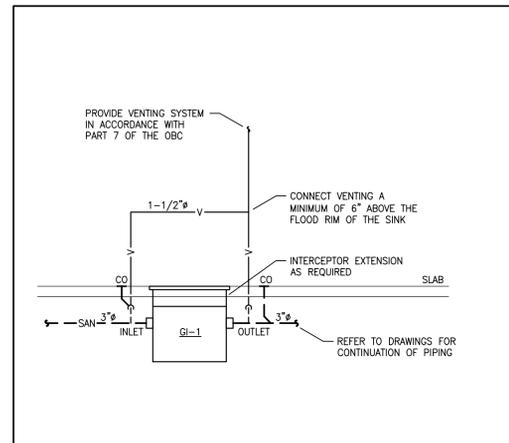
1 DUCTWORK FITTINGS DETAIL
 M-1.4 NTS



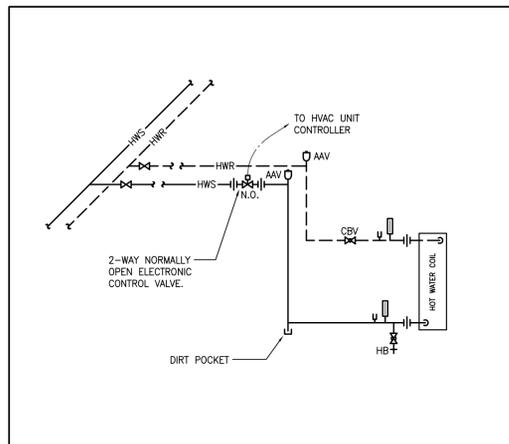
2 TRANSFER DUCTWORK DETAIL
 M-1.4 NTS



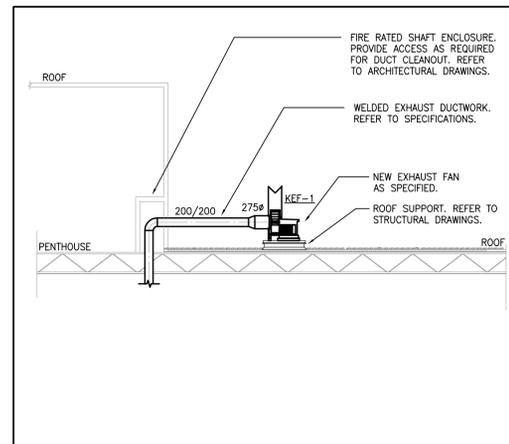
3 PIPE HANGER DETAIL
 M-1.4 NTS



4 GI-1 GREASE INTERCEPTOR DETAIL
 M-1.4 NTS



5 HOT WATER COIL CONNECTION DETAIL
 M-1.4 NTS



6 EXHAUST FAN ELEVATION DETAIL
 M-1.4 NTS

DO NOT SCALE THE DRAWINGS. CHECK AND VERIFY ALL DIMENSIONS AT THE SITE.

ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF THE CONSULTANT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS IN PART OR WHOLE WITHOUT THE PERMISSION OF THE CONSULTANT IS FORBIDDEN.

DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION UNTIL SIGNED AND SEALED BY THE CONSULTANT.



NO.	ISSUES/ REVISIONS	DATE	BY
1	ISSUED FOR REVIEW	2026-03-04	G.G.
2	ISSUED FOR PERMIT AND TENDER	2026-03-11	G.G.



Gallonardo Engineering Inc.
 228-4558 Highway 7
 144, 477
 Woodbridge, ON
 (905) 265-1052
 info@gei.ca | onardoeing.com
 www.gei.onardoeing.com

This drawing is the property of GALLONARDO ENGINEERING INC. This drawing shall be read in conjunction with the architectural, structural, electrical and all other consultant's drawings prior to proceeding with the work. Do not scale the drawings.

The contractor is to verify and accept responsibility for all dimensions and conditions on site and must notify GALLONARDO ENGINEERING INC. of any variations from the drawings.



PROJECT:
 SUSANNA MOODIE
 PUBLIC SCHOOL
 WASHROOM RENOVATION

376 AVONLOUGH ROAD
 BELLEVILLE, ONTARIO
 HASTINGS & PRINCE EDWARD DISTRICT SCHOOL BOARD

DRAWING:
 MECHANICAL
 SCHEDULES AND DETAILS I

DESIGN BY: JH
 DRAWN BY: RC
 CHECKED BY: JH
 DATE: JAN. 2026
 SCALE: AS SHOWN
 PROJECT NO: 25030
 DRAWING NO: M-1.4



25030 M-1.4

EXHAUST FAN BLOWER SECTION

FAN MODEL	A	B	C	D	E	F	G	H	K	L	N	O	P	S	T	V
BI-10RM	3.625"	8.375"	18.1875"	11.3125"	8.25"	27.75"	15.25"	21.3125"	3.1875"	17.5"	0.75"	11.0"	17.25"	11.625"	11.25"	N/A
BI-12RM	4.1875"	9.9375"	22.4375"	13.0625"	9.875"	33.3125"	20.1875"	29.125"	16.75"	20.5625"	1.0"	12.4375"	21.1875"	11.5"	14.75"	13.0625"
BI-13RM	4.9375"	10.75"	24.5"	14.375"	10.75"	34.25"	20.1875"	29.125"	16.75"	22.4375"	1.0"	14.375"	21.25"	11.5"	14.75"	14.0"
BI-15RM	4.9375"	11.75"	27.25"	15.8125"	12.75"	36.25"	20.1875"	29.125"	16.75"	24.875"	1.0"	15.875"	21.1875"	11.5"	14.75"	16.0"
BI-16RM	4.6075"	12.6875"	28.375"	17.5"	13.125"	36.625"	22.0"	30.9375"	16.75"	26.9375"	1.1875"	17.375"	21.25"	11.5"	14.75"	16.5"
BI-19RM	5.875"	13.8125"	33.1875"	19.375"	14.5"	38.25"	22.0"	30.9375"	16.75"	29.5625"	1.1875"	19.375"	21.5"	11.5"	14.75"	17.875"
BI-20RM	4.9375"	14.375"	34.4375"	21.1875"	15.5"	46.375"	28.0"	40.9375"	25.125"	32.1875"	1.1875"	21.25"	27.625"	14.5625"	22.75"	19.25"
BI-22RM	4.375"	16.375"	40.4375"	23.5625"	17.75"	48.375"	28.0"	40.9375"	25.125"	36.625"	1.1875"	23.625"	27.625"	14.5625"	22.75"	21.8125"
BI-24RM	4.9375"	17.9375"	44.6875"	26.125"	19.375"	51.3125"	32.125"	46.6875"	28.9375"	38.125"	1.4375"	26.0"	28.9375"	18.3125"	23.375"	23.375"
BI-27RM	51.5"	19.5"	49.0"	28.6875"	21.25"	53.125"	32.125"	46.6875"	28.9375"	42.8125"	1.4375"	28.625"	28.875"	18.3125"	24.375"	25.25"

MODEL	A	B	C	D
BI-10RM	11.8125"	8.75"	15.8125"	12.75"
BI-12RM	13.50"	10.375"	17.50"	14.375"
BI-13RM	14.875"	11.25"	18.875"	15.25"
BI-15RM	18.125"	13.625"	22.125"	17.625"
BI-16RM	18.125"	13.625"	22.125"	17.625"
BI-18RM	19.875"	15.00"	23.875"	19.00"
BI-20RM	21.6875"	16.25"	25.75"	20.25"
BI-22RM	24.125"	18.125"	28.125"	22.125"
BI-24RM	26.50"	19.875"	30.50"	23.875"
BI-27RM	29.125"	21.75"	33.125"	25.75"

Accessories and Features:

- 1."RM" Fan model for restaurant application, UL762 listed, AMCA certified, and NFPA 96 approved.
- 2.Motor 1.0 HP, (3.2 F.L.A.), 208V/3/60.
- 3.Belt drive with adjustable pulley.
- 4.Weatherproof unfused safety disconnect switch.
- 5.Access door.
- 6.V-shaped rain cap - prevents rain from entering unit.
- 7.Vibration isolators - Spring (outdoor).
- 8.Vented weather cover and 16 gauge or heavier housing with baked on textured green polyethylene powder coat finish.
- 9.Self aligning Pillow Block Bearings.
- 10.Rotatable housing for 8 different discharge positions.
- 11.All standard features plus meets NFPA guidelines.
12. Continuously welded 16 gauge housing, clean out door and 2" fan housing drain.

ITEM	QTY	MODEL	CAPACITY (CFM)	S.P. (in.w.g.)
KEF-1	1	BI-10RM	560	1.5"

RPM	BHP	HP	WEIGHT (Lbs)	SONES (dB)
1922	0.27	1.0	78	9.9

Consultant: Giallonardo Engineering Inc.

FAST KITCHEN HOODS

PROJECT: Susanna Moodie (Belleville, ON)

Customer:

DRAWING BY: Jaak W. SCALE: None DATE: Feb. 13, 2026 SHEET: 2 of 2

FAST KITCHEN EXHAUST HOOD

ITEM	QTY	DIMENSION	Collar	Capacity (CFM)	Weight (Lbs)	S.P.
H-1	1	42" x 78"	18" x 8" x 8"	560	130	0.14"

1a) Stainless steel 18G 430 #4 construction
2a) Exhaust collar (3" height)
5) Hanging Brackets

Consultant: Giallonardo Engineering Inc.

FAST KITCHEN HOODS

PROJECT: Susanna Moodie (Belleville, ON)

Customer:

DRAWING BY: Jaak W. SCALE: None DATE: Feb. 13, 2026 SHEET: 1 of 2

PLAN VIEW

FS-1: Fire suppression system
Model: ANSUL R-102, ULC 300
Capacity: 1.5 Gallons (3 flow points out of 5 flow points)
Size: Stainless steel cabinet 16-1/2"W x 23-1/2"H x 7-1/2"D
Complete with: Stainless steel piping, stainless steel cabinet, remote manual pull station, double micro-switch, class K portable extinguisher, cartridge & chemicals, final field hook-up not included.

1254.6 installed as per NFPA96 (pre-piped in the hood, final field hook up not included)

Consultant: Giallonardo Engineering Inc.

FAST KITCHEN HOODS

PROJECT: Susanna Moodie (Belleville, ON)

Customer:

DRAWING BY: SCALE: DATE: SHEET:

CLASS K WET CHEMICAL EXTINGUISHER SHALL BE INSTALLED 42"-48" ABOVE THE FINISHED FLOOR

1/2" EMT USED FOR DETECTION, AND PULL STATION

3/8" PIPING USED FOR DISTRIBUTION NETWORK

FS-1: FIRE SUPPRESSION SYSTEM

Nozzle Description	Flow Points	Quantity
Nozzle 1W	1	1
Nozzle 1F	1	-
Nozzle 1N	1	2
Nozzle 2W	2	-
Nozzle 230	2	-
Nozzle 245	2	-
Nozzle 260	2	-
Nozzle 3N	3	-

FS-1: Fire suppression system
Model: ANSUL R-102, ULC 300
Capacity: 1.5 Gallons (3 flow points out of 5 flow points)
Size: Stainless steel cabinet 16-1/2"W x 23-1/2"H x 7-1/2"D
Complete with: Stainless steel piping, stainless steel cabinet, remote manual pull station, double micro-switch, class K portable extinguisher, cartridge & chemicals, final field hook-up not included.

1254.6 installed as per NFPA96 (pre-piped in the hood, final field hook up not included)

Consultant: Giallonardo Engineering Inc.

FAST KITCHEN HOODS

PROJECT: Susanna Moodie (Belleville, ON)

Customer:

DRAWING BY: SCALE: DATE: SHEET:

DO NOT SCALE THE DRAWINGS.
CHECK AND VERIFY ALL DIMENSIONS AT THE SITE.
ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF THE CONSULTANT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS IN PART OR WHOLE WITHOUT THE PERMISSION OF THE CONSULTANT IS FORBIDDEN.
DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION UNTIL SIGNED AND SEALED BY THE CONSULTANT.



NO.	ISSUES/ REVISIONS	DATE	BY
1	ISSUED FOR REVIEW	2026-03-04	G.G.
2	ISSUED FOR PERMIT AND TENDER	2026-03-11	G.G.



Giallonardo Engineering Inc.
228-4558 Highway 7
Woodbridge, ON
L4L 4Y7
(905)265-1052
info@giallonardoeng.com
www.giallonardoeng.com

This drawing is the property of GIALLONARDO ENGINEERING INC.
This drawing shall be read in conjunction with the architectural, structural, electrical and all other consultant's drawings prior to proceeding with the work. Do not scale the drawings.

The contractor is to verify and accept responsibility for all dimensions and conditions on site and must notify GIALLONARDO ENGINEERING INC. of any variations from the drawings.



PROJECT: SUSANNA MOODIE PUBLIC SCHOOL WASHROOM RENOVATION

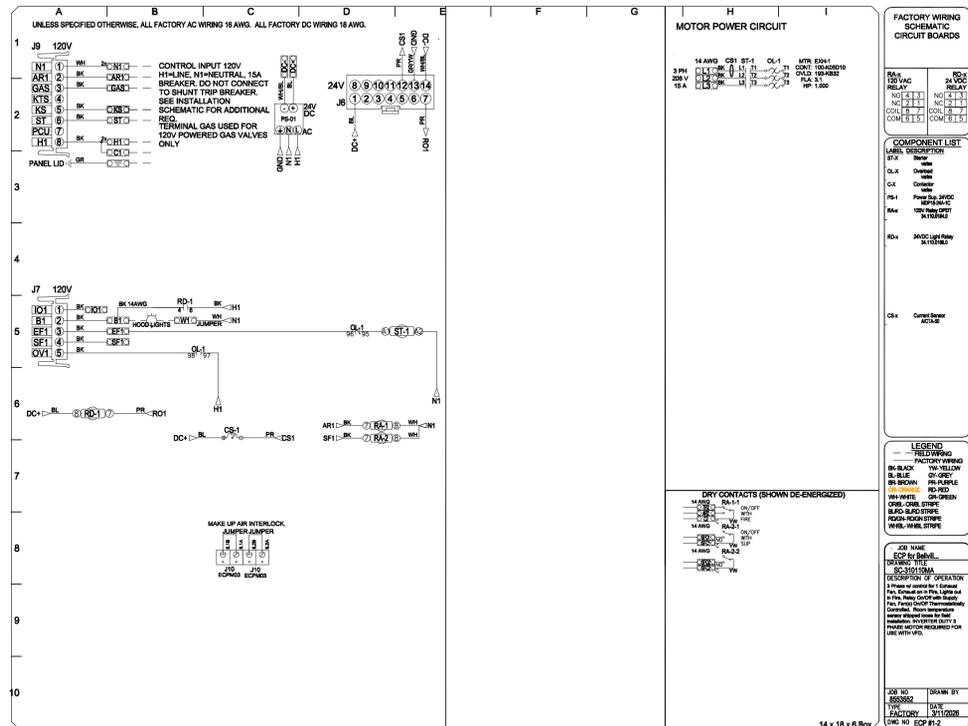
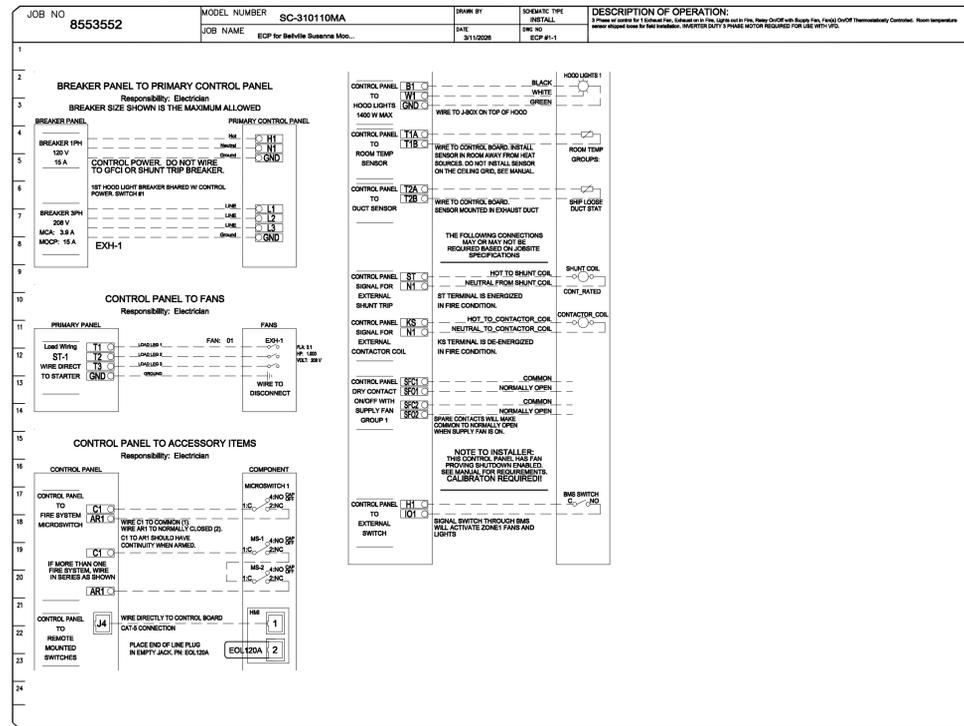
376 AVONLOUGH ROAD
BELLEVILLE, ONTARIO
HASTINGS & PRINCE EDWARD DISTRICT SCHOOL BOARD

DRAWING: MECHANICAL DETAILS II

DESIGN BY: JH SEAL:
DRAWN BY: RC
CHECKED BY: JH
DATE: JAN. 2026
SCALE: AS SHOWN



PROJECT NO: 25030 DRAWING NO: M-1.5



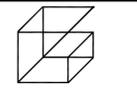
DO NOT SCALE THE DRAWINGS.
CHECK AND VERIFY ALL DIMENSIONS AT THE SITE.

ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF THE CONSULTANT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS IN PART OR WHOLE WITHOUT THE PERMISSION OF THE CONSULTANT IS FORBIDDEN.

DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION UNTIL SIGNED AND SEALED BY THE CONSULTANT.



NO.	ISSUES/ REVISIONS	DATE	BY
1	ISSUED FOR REVIEW	2026-03-04	G.G.
2	ISSUED FOR PERMIT AND TENDER	2026-03-11	G.G.



Giallonardo Engineering Inc.
228-4558 Highway 7
Woodbridge, ON
L4L 4Y7
(905) 265-1052
info@gei.onardoen.com
www.giallonardoeng.com

This drawing is the property of GALLONARDO ENGINEERING INC.

This drawing shall be read in conjunction with the architectural, structural, electrical and all other consultant's drawings prior to proceeding with the work. Do not scale the drawings.

The contractor is to verify and accept responsibility for all dimensions and conditions on site and must notify GALLONARDO ENGINEERING INC. of any variations from the drawings.



PROJECT:
SUSANNA MOODIE PUBLIC SCHOOL WASHROOM RENOVATION

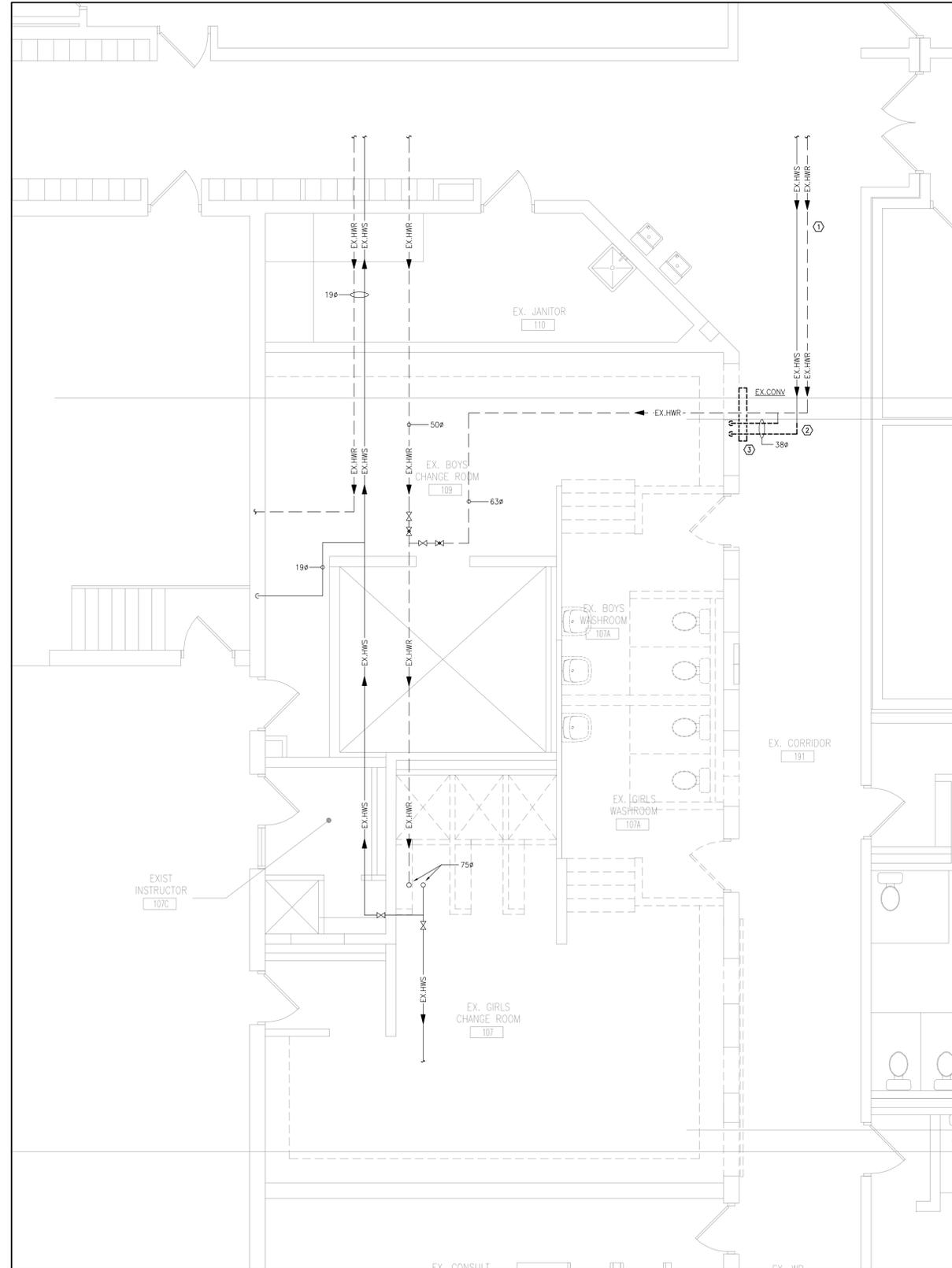
376 AVONLOUGH ROAD
BELLEVILLE, ONTARIO
HASTINGS & PRINCE EDWARD DISTRICT SCHOOL BOARD

DRAWING:
MECHANICAL DETAILS III

DESIGN BY: JH
DRAWN BY: RC
CHECKED BY: JH
DATE: JAN. 2026
SCALE: AS SHOWN



PROJECT NO: **25030**
DRAWING NO: **M-1.6**



1 M-2.2 PART GROUND FLOOR PLAN - HYDRONICS DEMOLITION

HVAC NOTES

- ① EXISTING HWS/HWR PIPING IN CEILING SPACE TO REMAIN (TYPICAL).
- ② EXISTING HWS/HWR PIPING TO BE REMOVED AND DISPOSED OF BACK TO WHERE SHOWN. CONTRACTOR TO CONFIRM EXACT LOCATION OF BRANCH LINE ON SITE (TYPICAL).
- ③ EXISTING WALL MOUNTED CONVECTOR UNIT TO BE REMOVED AND RETAINED FOR REINSTALLATION WHERE SHOWN ON NEW PLANS. CLEAN AND REFURBISH CONVECTOR UNIT PRIOR TO REINSTALLATION.

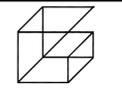
GENERAL HVAC NOTES

- 1. WHERE COMPONENTS ARE TO BE REUSED, THE CONTRACTOR SHALL CLEAN AND TEST THE COMPONENT TO ENSURE PROPER OPERATION. THE CONSULTANT SHALL BE NOTIFIED IN THE EVENT THERE IS A DEFICIENCY WITH THE COMPONENT.
- 2. PERFORM DEMOLITION WORK SO AS TO CAUSE MINIMAL DISTURBANCE TO OWNER AND/OR ADJACENT AREAS. MINIMIZE DUST AND NOISE AND PROVIDE TEMPORARY AIR FILTERS ON AIR HANDLING SYSTEMS AFFECTED BY THE AREA OF WORK. ALL COSTS ASSOCIATED WITH DAMAGES AS A RESULT OF THE MECHANICAL DEMOLITION SHALL BE COVERED BY DIV.23. MAINTAIN SAFETY STANDARDS AND PROVIDE ADEQUATE SIGNAGE FOR BOTH WORKERS AND OCCUPANTS.
- 3. THE MECHANICAL DRAWINGS DISPLAY A GENERAL DESIGN AND INSTALLATION. THEREFORE, IF REQUIRED, THE CONTRACTOR SHALL OBTAIN CLARIFICATION FROM THE CONSULTANT PRIOR TO INSTALLATION.
- 4. THESE DRAWINGS HAVE BEEN PREPARED FOR DIV.23 AND DO NOT ACCURATELY DISPLAY ALL ELECTRICAL, STRUCTURAL AND ARCHITECTURAL ELEMENTS. REFER TO OTHER DIVISION'S DRAWINGS FOR CLARIFICATION.
- 5. THIS CONTRACTOR SHALL VISIT THE SITE AND COMPLETELY INVESTIGATE AND UNDERSTAND THE EXISTING CONDITIONS AND THEIR RELATION TO THE DESIGN DRAWINGS/DOCUMENTS. NO CONSIDERATION WILL BE GIVEN TO THE CONTRACTOR FOR ANY HINDRANCES TO THE MECHANICAL INSTALLATION FROM SITE CONDITIONS WHICH EXISTED PRIOR TO TENDER SUBMISSION. AS SUCH AND WHERE REQUIRED, THE CONTRACTOR SHALL PROVIDE INTERFERENCE DRAWINGS AND SHALL SUBMIT THEM TO THE CONSULTANT FOR REVIEW.

DO NOT SCALE THE DRAWINGS. CHECK AND VERIFY ALL DIMENSIONS AT THE SITE.
 ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF THE CONSULTANT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS IN PART OR WHOLE WITHOUT THE PERMISSION OF THE CONSULTANT IS FORBIDDEN.
 DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION UNTIL SIGNED AND SEALED BY THE CONSULTANT.



NO.	ISSUES/ REVISIONS	DATE	BY
1	ISSUED FOR REVIEW	2026-03-04	G.G.
2	ISSUED FOR PERMIT AND TENDER	2026-03-11	G.G.



Gallonardo —
 Engineering Inc.
 228-4558 Highway 7
 Woodbridge, ON
 L4L 4Y7
 (905) 265-1052
 info@galtonardoeng.com
 www.galtonardoeng.com

This drawing is the property of GALLONARDO ENGINEERING INC.
 This drawing shall be read in conjunction with the architectural, structural, electrical and all other consultant's drawings prior to proceeding with the work. Do not scale the drawings.

The contractor is to verify and accept responsibility for all dimensions and conditions on site and must notify GALLONARDO ENGINEERING INC. of any variations from the drawings.



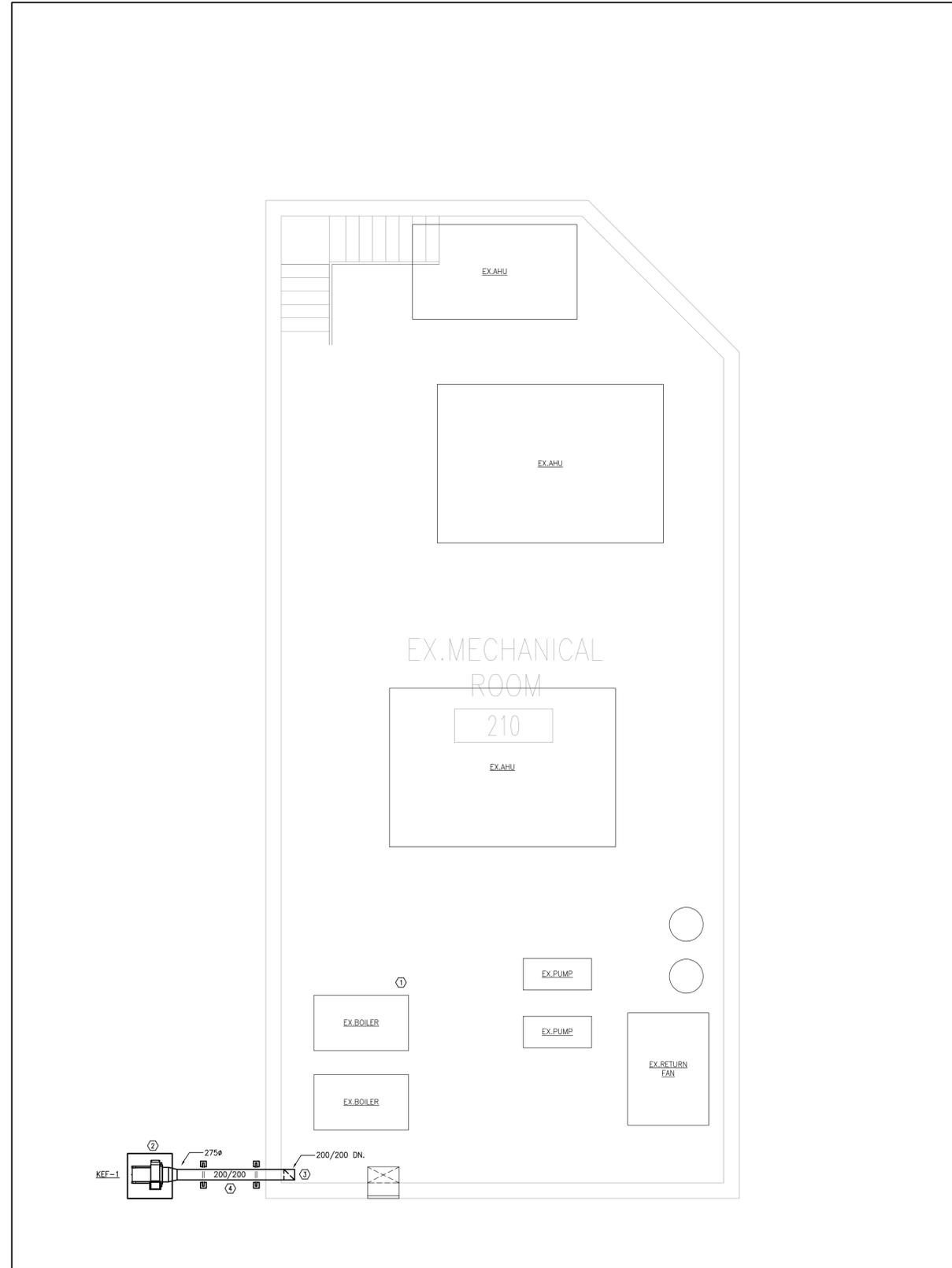
PROJECT:
 SUSANNA MOODIE
 PUBLIC SCHOOL
 WASHROOM RENOVATION

376 AVONLOUGH ROAD
 BELLEVILLE, ONTARIO
 HASTINGS & PRINCE EDWARD DISTRICT SCHOOL BOARD

DRAWING:
 PART GROUND FLOOR
 PLAN - HYDRONICS
 DEMOLITION

DESIGN BY: JH	SEAL:
DRAWN BY: RC	
CHECKED BY: JH	
DATE: JAN. 2026	
SCALE: AS SHOWN	

PROJECT NO: 25030
 DRAWING NO: M-2.2



1 M-2.4 PART MECHANICAL ROOM - HVAC NEW

HVAC NOTES

- ① EXISTING EQUIPMENT IN MECHANICAL ROOM TO REMAIN.
- ② NEW KITCHEN EXHAUST FAN AS SPECIFIED ON ROOF C/W NEW ROOF CURB AND VIBRATION ISOLATION. REFER TO SCHEDULES AND DETAILS. ENSURE MINIMUM 3.0m CLEARANCE FROM ADJACENT FRESH AIR INTAKES.
- ③ NEW DUCTWORK DOWN TO KITCHEN HOOD BELOW.
- ④ PROVIDE DUCTWORK SUPPORT EQUAL TO EATON DURA-BLOK B-LINE SERIES SUPPORT SYSTEM INCLUDING H-FRAME AND UNISTRUT SYSTEM C/W GALVANIZED STEEL SADDLES. SPACE SUPPORTS AT MIN. 6 FT. AND ENSURE BOTTOM OF DUCTWORK IS MIN. 24" ABOVE ROOF (TYPICAL).

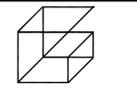
GENERAL HVAC NOTES

- 1. THE MECHANICAL DRAWINGS DISPLAY A GENERAL DESIGN AND INSTALLATION. THEREFORE, IF REQUIRED, THE CONTRACTOR SHALL OBTAIN CLARIFICATION FROM THE CONSULTANT PRIOR TO INSTALLATION.
- 2. THESE DRAWINGS HAVE BEEN PREPARED FOR DIV.23 AND DO NOT ACCURATELY DISPLAY ALL ELECTRICAL, STRUCTURAL AND ARCHITECTURAL ELEMENTS. REFER TO OTHER DIVISION'S DRAWINGS FOR CLARIFICATION.
- 3. THIS CONTRACTOR SHALL VISIT THE SITE AND COMPLETELY INVESTIGATE AND UNDERSTAND THE EXISTING CONDITIONS AND THEIR RELATION TO THE DESIGN DRAWINGS/DOCUMENTS. NO CONSIDERATION WILL BE GIVEN TO THE CONTRACTOR FOR ANY HINDRANCES TO THE MECHANICAL INSTALLATION FROM SITE CONDITIONS WHICH EXISTED PRIOR TO TENDER SUBMISSION. AS SUCH AND WHERE REQUIRED, THE CONTRACTOR SHALL PROVIDE INTERFERENCE DRAWINGS AND SHALL SUBMIT THEM TO THE CONSULTANT FOR REVIEW.

DO NOT SCALE THE DRAWINGS.
CHECK AND VERIFY ALL DIMENSIONS AT THE SITE.
ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF THE CONSULTANT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS IN PART OR WHOLE WITHOUT THE PERMISSION OF THE CONSULTANT IS FORBIDDEN.
DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION UNTIL SIGNED AND SEALED BY THE CONSULTANT.



NO.	ISSUES/ REVISIONS	DATE	BY
1	ISSUED FOR REVIEW	2026-03-04	G.G.
2	ISSUED FOR PERMIT AND TENDER	2026-03-11	G.G.



Giallonardo —
Engineering Inc.
228-4558 Highway 7
Woodbridge, ON
L4L 4Y7
(905) 265-1052
info@gi.alionardoeng.com
www.gialionardoeng.com

This drawing is the property of GALLONARDO ENGINEERING INC.
This drawing shall be read in conjunction with the architectural, structural, electrical and all other consultant's drawings prior to proceeding with the work. Do not scale the drawings.

The contractor is to verify and accept responsibility for all dimensions and conditions on site and must notify GALLONARDO ENGINEERING INC. of any variations from the drawings.



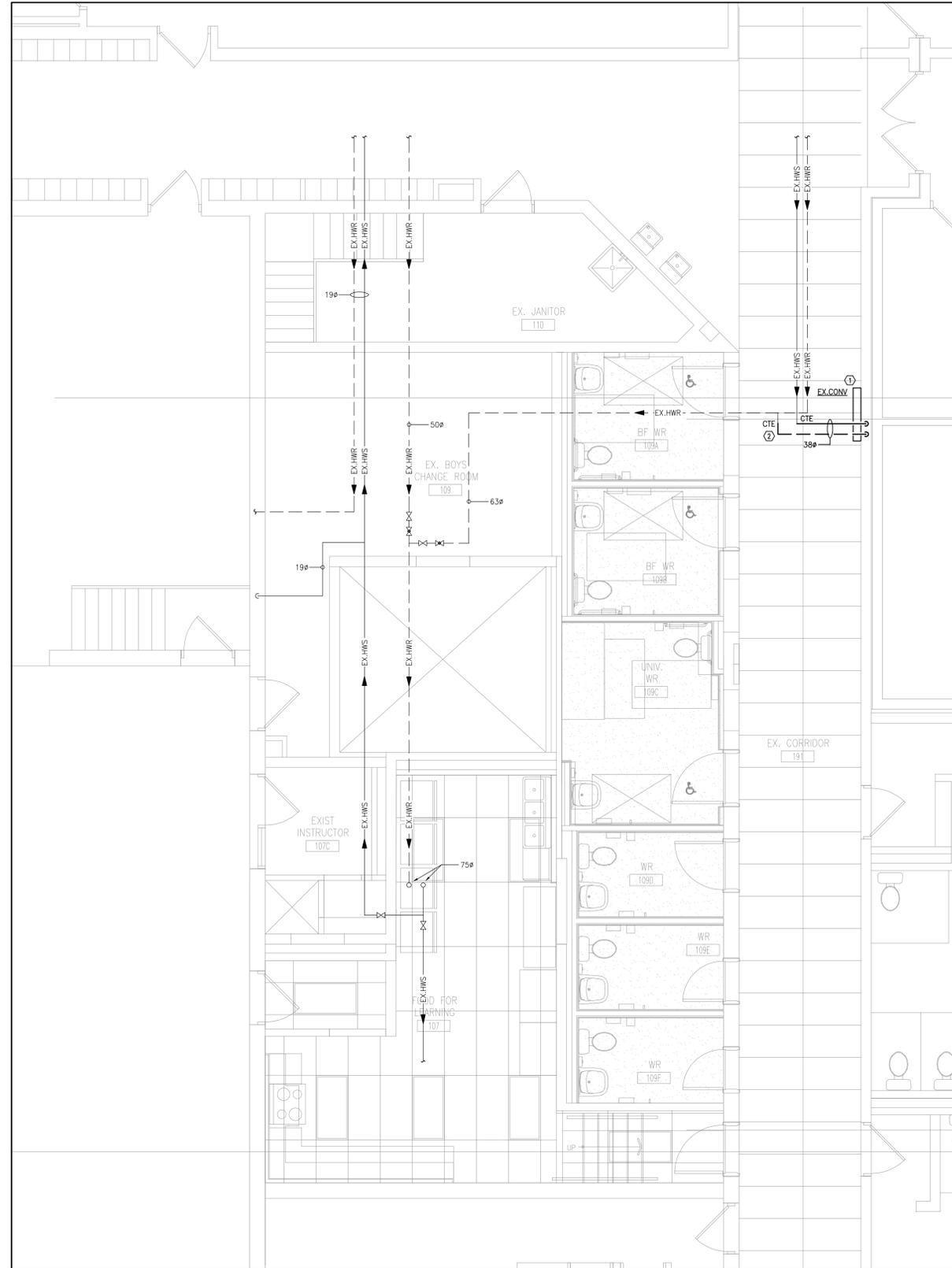
PROJECT:
SUSANNA MOODIE
PUBLIC SCHOOL
WASHROOM RENOVATION

376 AVONLOUGH ROAD
BELLEVILLE, ONTARIO
HASTINGS & PRINCE EDWARD DISTRICT SCHOOL BOARD

DRAWING:
PART MECHANICAL ROOM
- HVAC NEW

DESIGN BY: JH	SEAL:
DRAWN BY: RC	
CHECKED BY: JH	
DATE: JAN. 2026	
SCALE: AS SHOWN	

PROJECT NO: 25030
DRAWING NO: M-2.4



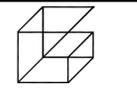
- HVAC NOTES**
- NEW LOCATION OF EXISTING CONNECTOR UNIT.
 - PROVIDE NEW HWS/HWR PIPING AS REQUIRED SERVING NEW CONNECTOR UNIT LOCATION. REFER TO DETAILS.
- GENERAL HVAC NOTES**
- THE MECHANICAL DRAWINGS DISPLAY A GENERAL DESIGN AND INSTALLATION. THEREFORE, IF REQUIRED, THE CONTRACTOR SHALL OBTAIN CLARIFICATION FROM THE CONSULTANT PRIOR TO INSTALLATION.
 - THESE DRAWINGS HAVE BEEN PREPARED FOR DIV.23 AND DO NOT ACCURATELY DISPLAY ALL ELECTRICAL, STRUCTURAL AND ARCHITECTURAL ELEMENTS. REFER TO OTHER DIVISION'S DRAWINGS FOR CLARIFICATION.
 - THIS CONTRACTOR SHALL VISIT THE SITE AND COMPLETELY INVESTIGATE AND UNDERSTAND THE EXISTING CONDITIONS AND THEIR RELATION TO THE DESIGN DRAWINGS/DOCUMENTS. NO CONSIDERATION WILL BE GIVEN TO THE CONTRACTOR FOR ANY HINDRANCES TO THE MECHANICAL INSTALLATION FROM SITE CONDITIONS WHICH EXISTED PRIOR TO TENDER SUBMISSION. AS SUCH AND WHERE REQUIRED, THE CONTRACTOR SHALL PROVIDE INTERFERENCE DRAWINGS AND SHALL SUBMIT THEM TO THE CONSULTANT FOR REVIEW.

1 M-2.5 PART GROUND FLOOR PLAN - HYDRONICS NEW

DO NOT SCALE THE DRAWINGS. CHECK AND VERIFY ALL DIMENSIONS AT THE SITE.
 ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF THE CONSULTANT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS IN PART OR WHOLE WITHOUT THE PERMISSION OF THE CONSULTANT IS FORBIDDEN.
 DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION UNTIL SIGNED AND SEALED BY THE CONSULTANT.



NO.	ISSUES/ REVISIONS	DATE	BY
1	ISSUED FOR REVIEW	2026-03-04	G.G.
2	ISSUED FOR PERMIT AND TENDER	2026-03-11	G.G.



Gallonardo — Engineering Inc.
 228-4558 Highway 7
 Woodbridge, ON
 L4L 4Y7
 (905) 265-1052
 info@galtonardoeng.com
 www.galtonardoeng.com

This drawing is the property of GALLONARDO ENGINEERING INC.
 This drawing shall be read in conjunction with the architectural, structural, electrical and all other consultant's drawings prior to proceeding with the work. Do not scale the drawings.
 The contractor is to verify and accept responsibility for all dimensions and conditions on site and must notify GALLONARDO ENGINEERING INC. of any variations from the drawings.



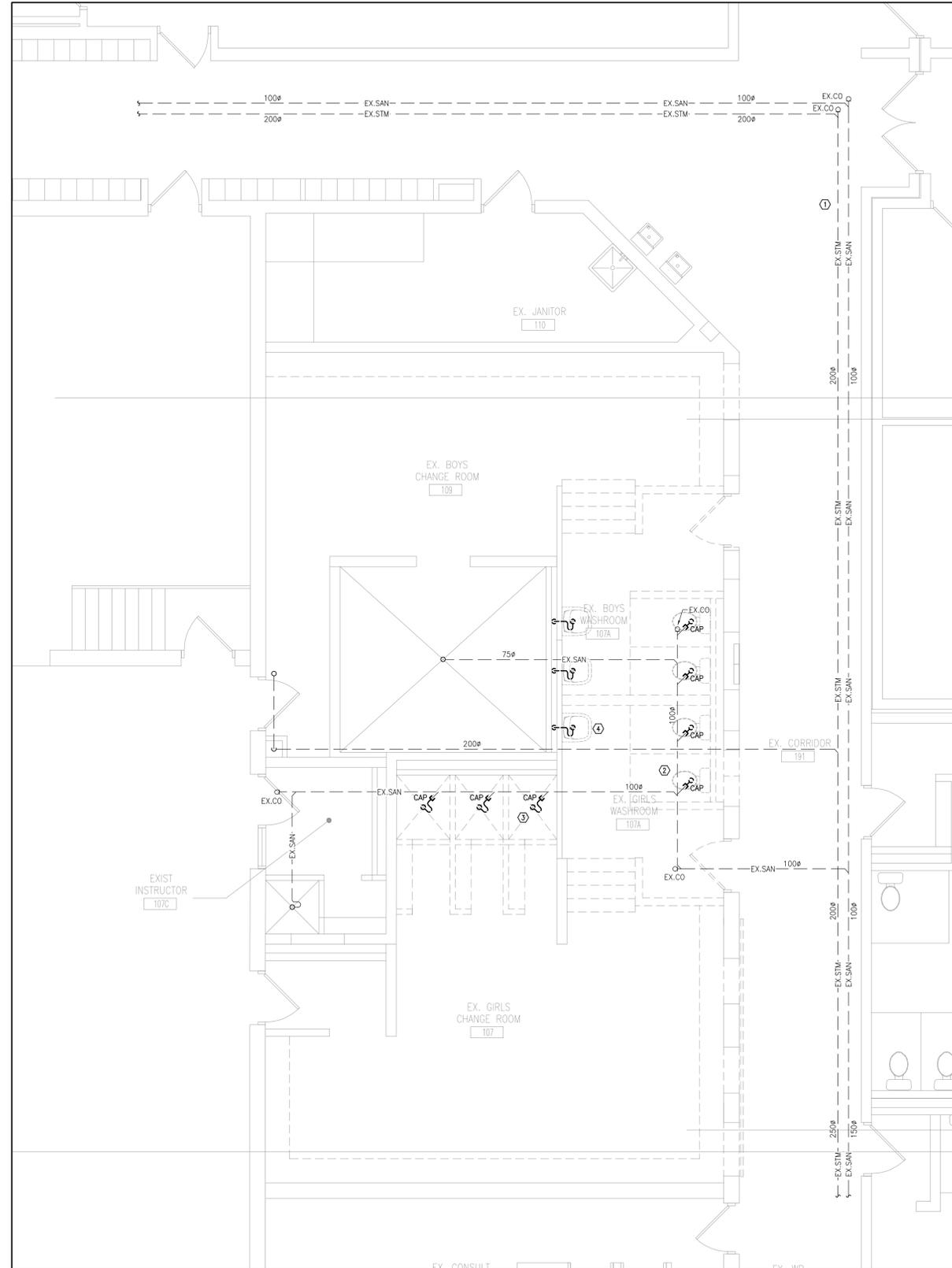
PROJECT:
 SUSANNA MOODIE
 PUBLIC SCHOOL
 WASHROOM RENOVATION

376 AVONLOUGH ROAD
 BELLEVILLE, ONTARIO
 HASTINGS & PRINCE EDWARD DISTRICT SCHOOL BOARD

DRAWING:
 PART GROUND FLOOR PLAN
 - HYDRONICS NEW

DESIGN BY: JH	SEAL:
DRAWN BY: RC	
CHECKED BY: JH	
DATE: JAN. 2026	
SCALE: AS SHOWN	

PROJECT NO: **25030** DRAWING NO: **M-2.5**



DRAINAGE DRAWING NOTES

- ① APPROXIMATE LOCATION OF EXISTING UNDERGROUND SANITARY AND STORM DRAINAGE PIPING. CONTRACTOR TO VERIFY EXACT LOCATION AND DIRECTION OF FLOW PRIOR TO START OF CONSTRUCTION. CONTRACTOR SHALL CARRY SERVICES FOR SCOPING OF EXISTING UNDERGROUND DRAINAGE PIPING IN THEIR BASE BID (TYPICAL).
- ② EXISTING WATER CLOSET TO BE REMOVED AND DISPOSED OF. CAP PIPING UNDERGROUND AS SHOWN. REMOVE VENT PIPING BACK TO MAIN IN CEILING SPACE AND CAP (TYPICAL).
- ③ EXISTING SHOWER DRAIN TO BE REMOVED AND DISPOSED OF. CAP PIPING UNDERGROUND AS SHOWN REMOVE VENT PIPING BACK TO MAIN IN CEILING SPACE AND CAP (TYPICAL).
- ④ EXISTING LAVATORY TO BE REMOVED AND DISPOSED OF. REMOVE PIPING IN WALL SPACE. REMOVE VENT PIPING BACK TO MAIN IN CEILING SPACE AND CAP (TYPICAL).

GENERAL NOTES

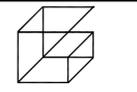
1. ALL EXISTING SERVICES SHOWN ARE A GENERAL REPRESENTATION ONLY OF ACTUAL ONSITE CONDITIONS. CONTRACTOR TO VERIFY EXACT LOCATION OF EXISTING SERVICES PRIOR TO CONSTRUCTION AND REPORT ALL DISCREPANCIES TO ENGINEER IN A TIMELY MANNER.
2. PROVIDE VENTING SYSTEMS IN ACCORDANCE WITH PART 7 OF THE NATIONAL PLUMBING CODE.
3. PROVIDE ADEQUATE ACCESS FOR ALL EQUIPMENT, VALVES, ETC. LOCATED BEHIND WALLS AND CEILINGS. REFER TO SPECIFICATIONS.
4. PROVIDE TRAP PRIMING AND ASSOCIATED EQUIPMENT AS SPECIFIED AND/OR REQUIRED. ENSURE THAT TRAP PRIMER MECHANISM IS INSTALLED IN AN ACCESSIBLE LOCATION.
5. PROVIDE APPROPRIATE MEANS FOR FIRESTOPPING FOR ALL PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES.
6. PATCH ALL FLOOR/WALL PENETRATIONS FROM REMOVED PIPING/EQUIPMENT TO BASE BUILDING STANDARDS.
7. UNLESS OTHERWISE NOTED, ALL VENT PIPING ASSOCIATED WITH REMOVED PLUMBING FIXTURES SHALL BE COMPLETELY REMOVED AND CAPPED AT MAIN.

1 M-3.2 PART GROUND FLOOR PLAN - DRAINAGE DEMOLITION

DO NOT SCALE THE DRAWINGS. CHECK AND VERIFY ALL DIMENSIONS AT THE SITE.
 ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF THE CONSULTANT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS IN PART OR WHOLE WITHOUT THE PERMISSION OF THE CONSULTANT IS FORBIDDEN.
 DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION UNTIL SIGNED AND SEALED BY THE CONSULTANT.



NO.	ISSUES/ REVISIONS	DATE	BY
1	ISSUED FOR REVIEW	2026-03-04	G.G.
2	ISSUED FOR PERMIT AND TENDER	2026-03-11	G.G.



**Gallonardo —
Engineering Inc.**
 228-4558 Highway 7
 Woodbridge, ON
 L4L 4Y7
 (905) 265-1052
 info@galionardoeng.com
 www.galionardoeng.com

This drawing is the property of GALLONARDO ENGINEERING INC.
 This drawing shall be read in conjunction with the architectural, structural, electrical and all other consultant's drawings prior to proceeding with the work. Do not scale the drawings.

The contractor is to verify and accept responsibility for all dimensions and conditions on site and must notify GALLONARDO ENGINEERING INC. of any variations from the drawings.



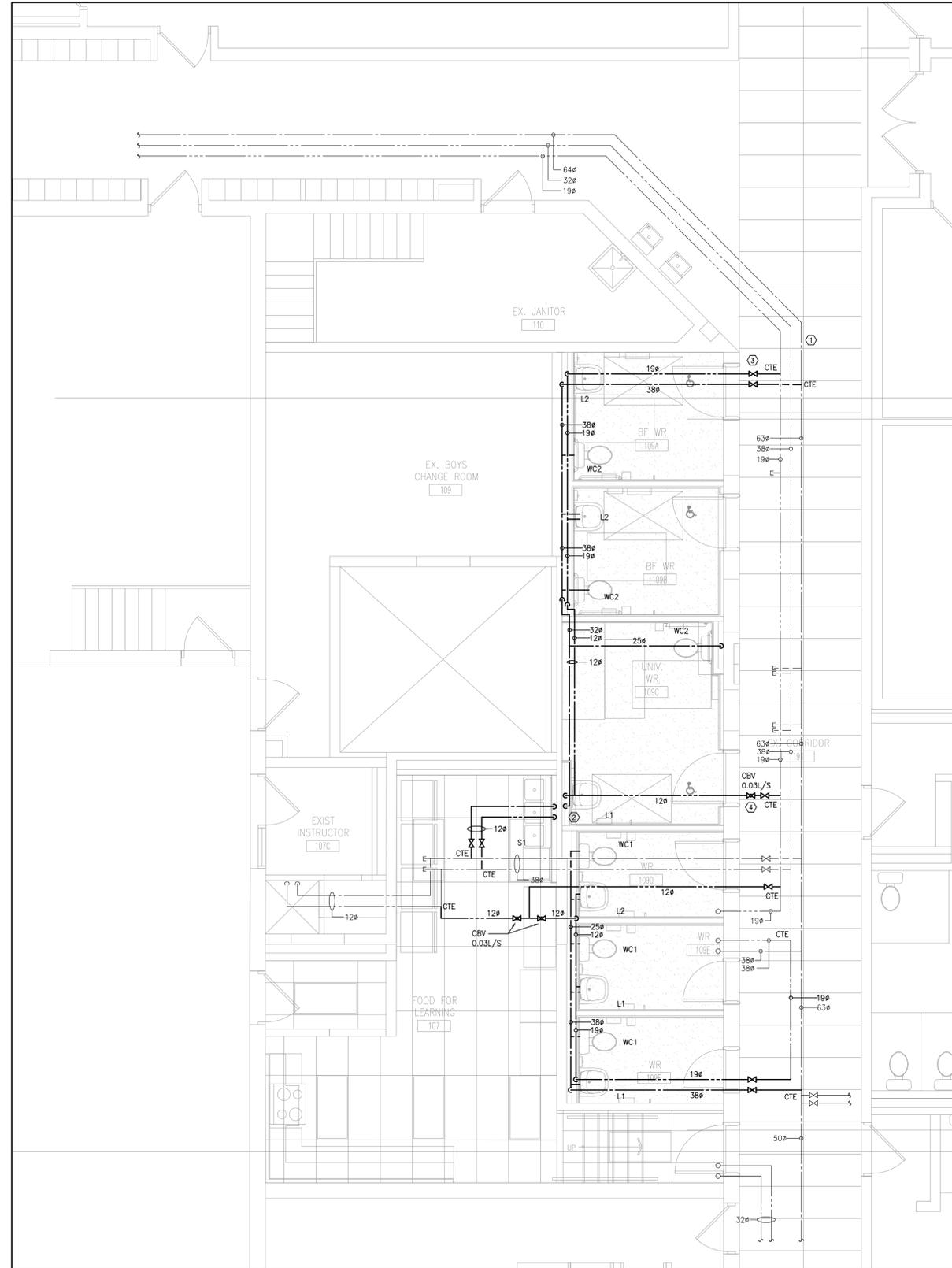
**PROJECT:
SUSANNA MOODIE
PUBLIC SCHOOL
WASHROOM RENOVATION**

376 AVONLOUGH ROAD
 BELLEVILLE, ONTARIO
 HASTINGS & PRINCE EDWARD DISTRICT SCHOOL BOARD

**DRAWING:
PART GROUND FLOOR
PLAN - DRAINAGE DEMOLITION**

DESIGN BY: JH	SEAL:
DRAWN BY: RC	
CHECKED BY: JH	
DATE: JAN. 2026	
SCALE: AS SHOWN	

PROJECT NO: **25030** DRAWING NO: **M-3.2**



PLUMBING DRAWING NOTES

- ① PROVIDE NEW DCW/DHW PIPING IN CEILING SPACE (TYPICAL).
- ② DROP NEW DCW/DHW DOWN IN PIPE CHASE TO SERVE NEW FIXTURE (TYPICAL).
- ③ PROVIDE NEW ISOLATION VALVE IN CEILING SPACE.
- ④ PROVIDE NEW DHWR PIPING IN CORRIDOR CEILING SPACE C/W CBV (TYPICAL).

GENERAL NOTES

- 1. ALL EXISTING SERVICES SHOWN ARE A GENERAL REPRESENTATION ONLY OF ACTUAL ONSITE CONDITIONS. CONTRACTOR TO VERIFY EXACT LOCATION OF EXISTING SERVICES PRIOR TO CONSTRUCTION AND REPORT ALL DISCREPANCIES TO ENGINEER IN A TIMELY MANNER.
- 2. PROVIDE VENTING SYSTEMS IN ACCORDANCE WITH PART 7 OF THE NATIONAL PLUMBING CODE.
- 3. PROVIDE ADEQUATE ACCESS FOR ALL EQUIPMENT, VALVES, ETC. LOCATED BEHIND WALLS AND CEILINGS. REFER TO SPECIFICATIONS.
- 4. PROVIDE TRAP PRIMING AND ASSOCIATED EQUIPMENT AS SPECIFIED AND/OR REQUIRED. ENSURE THAT TRAP PRIMER MECHANISM IS INSTALLED IN AN ACCESSIBLE LOCATION.
- 5. PROVIDE APPROPRIATE MEANS FOR FIRESTOPPING FOR ALL PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES.
- 6. PATCH ALL FLOOR/WALL PENETRATIONS FROM REMOVED PIPING/EQUIPMENT TO BASE BUILDING STANDARDS.
- 7. PROVIDE CEILING ACCESS PANELS AS REQUIRED FOR ALL EXISTING DOMESTIC WATER ISOLATIONS VALVE AS REQUIRED. MECHANICAL TRADES SHALL COORDINATE WITH GENERAL CONTRACTOR FOR ALL ACCESS PANEL LOCATIONS.

1 M-3.3 PART GROUND FLOOR PLAN - PLUMBING NEW

DO NOT SCALE THE DRAWINGS.
CHECK AND VERIFY ALL DIMENSIONS AT THE SITE.
ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF THE CONSULTANT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS IN PART OR WHOLE WITHOUT THE PERMISSION OF THE CONSULTANT IS FORBIDDEN.
DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION UNTIL SIGNED AND SEALED BY THE CONSULTANT.



NO.	ISSUES/ REVISIONS	DATE	BY
1	ISSUED FOR REVIEW	2026-03-04	G.G.
2	ISSUED FOR PERMIT AND TENDER	2026-03-11	G.G.



**Gallonardo —
Engineering Inc.**
228-4558 Highway 7
Woodbridge, ON
L4L 4Y7
(905) 265-1052
info@gallonardoeng.com
www.gallonardoeng.com

This drawing is the property of GALLONARDO ENGINEERING INC.
This drawing shall be read in conjunction with the architectural, structural, electrical and all other consultant's drawings prior to proceeding with the work. Do not scale the drawings.

The contractor is to verify and accept responsibility for all dimensions and conditions on site and must notify GALLONARDO ENGINEERING INC. of any variations from the drawings.



**PROJECT:
SUSANNA MOODIE
PUBLIC SCHOOL
WASHROOM RENOVATION**

376 AVONLOUGH ROAD
BELLEVILLE, ONTARIO
HASTINGS & PRINCE EDWARD DISTRICT SCHOOL BOARD

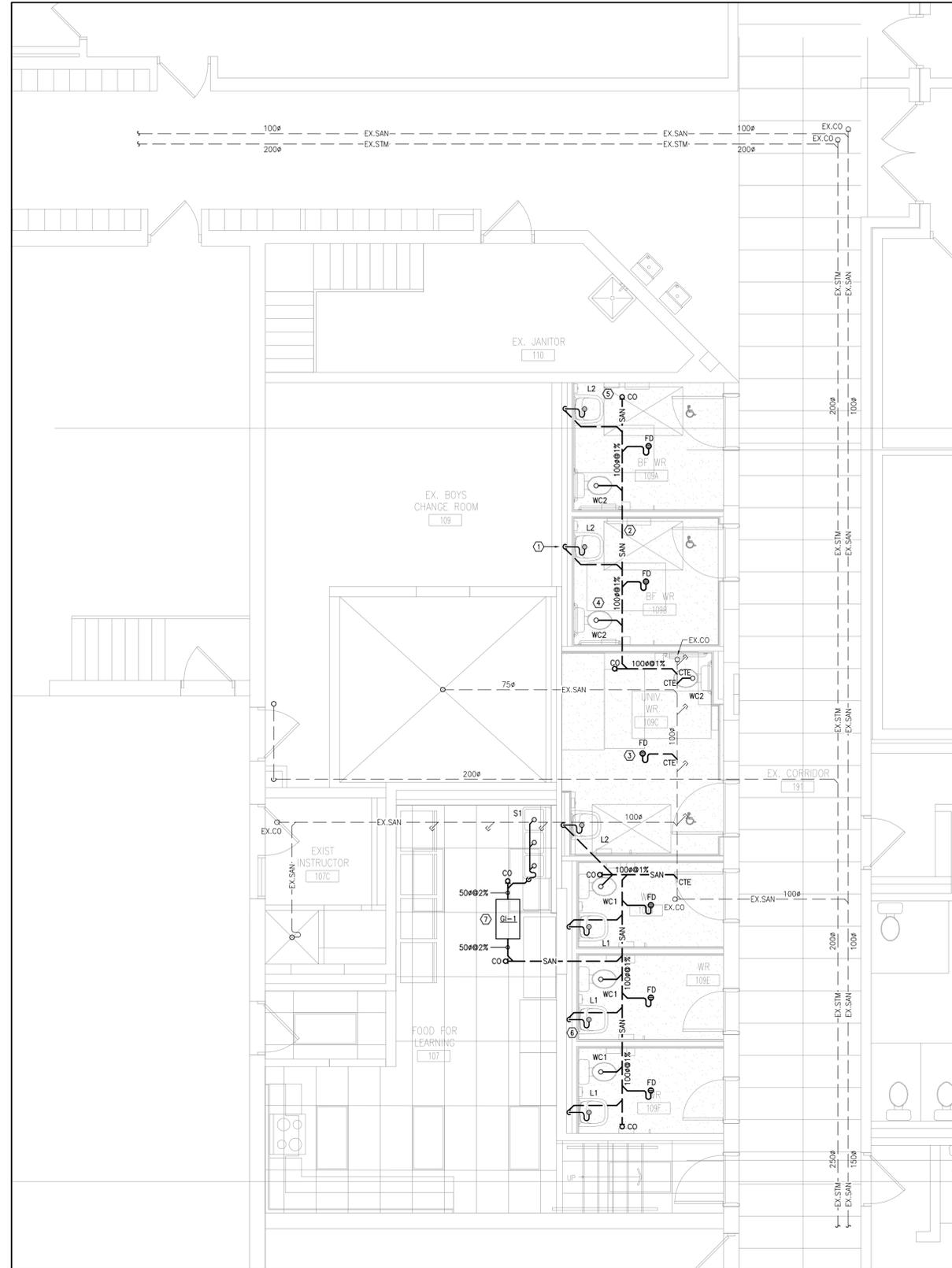
**DRAWING:
PART GROUND FLOOR
PLAN - PLUMBING NEW**

DESIGN BY: JH
DRAWN BY: RC
CHECKED BY: JH
DATE: JAN. 2026
SCALE: AS SHOWN



PROJECT NO: DRAWING NO:

25030 M-3.3



1 PART GROUND FLOOR PLAN - DRAINAGE NEW
M-3.4

DRAINAGE DRAWING NOTES

- ① PROVIDE NEW SANITARY DRAINAGE PIPING IN WALL CHASE (TYPICAL).
- ② PROVIDE NEW BURIED SANITARY PIPING AS SHOWN (TYPICAL).
- ③ PROVIDE NEW FLOOR DRAIN AS SPECIFIED. PROVIDE TRAP PRIMING AS REQUIRED TO SERVE ALL NEW FLOOR DRAINS. CONTRACTOR TO CONFIRM EXACT LOCATION OF TRAP SEAL PRIMING ON SITE (TYPICAL).
- ④ PROVIDE NEW WATER CLOSET AS SPECIFIED (TYPICAL).
- ⑤ PROVIDE NEW LAVATORY AS SPECIFIED (TYPICAL).
- ⑥ DISTRIBUTE VENT PIPING TO PLUMBING FIXTURES IN ACCORDANCE WITH THE ONTARIO BUILDING CODE (TYPICAL).
- ⑦ PROVIDE NEW GREASE INTERCEPTOR AS SPECIFIED INSTALLED RECESSED IN FLOOR. INSTALL UNIT IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

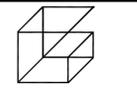
GENERAL NOTES

1. ALL EXISTING SERVICES SHOWN ARE A GENERAL REPRESENTATION ONLY OF ACTUAL ON-SITE CONDITIONS. CONTRACTOR TO VERIFY EXACT LOCATION OF EXISTING SERVICES PRIOR TO CONSTRUCTION AND REPORT ALL DISCREPANCIES TO ENGINEER IN A TIMELY MANNER.
2. PROVIDE VENTING SYSTEMS IN ACCORDANCE WITH PART 7 OF THE NATIONAL PLUMBING CODE.
3. PROVIDE ADEQUATE ACCESS FOR ALL EQUIPMENT, VALVES, ETC. LOCATED BEHIND WALLS AND CEILINGS. REFER TO SPECIFICATIONS.
4. PROVIDE TRAP PRIMING AND ASSOCIATED EQUIPMENT AS SPECIFIED AND/OR REQUIRED. ENSURE THAT TRAP PRIMER MECHANISM IS INSTALLED IN AN ACCESSIBLE LOCATION.
5. PROVIDE APPROPRIATE MEANS FOR FIRESTOPPING FOR ALL PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES.
6. PATCH ALL FLOOR/WALL PENETRATIONS FROM REMOVED PIPING/EQUIPMENT TO BASE BUILDING STANDARDS.

DO NOT SCALE THE DRAWINGS.
CHECK AND VERIFY ALL DIMENSIONS AT THE SITE.
ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF THE CONSULTANT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS IN PART OR WHOLE WITHOUT THE PERMISSION OF THE CONSULTANT IS FORBIDDEN.
DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION UNTIL SIGNED AND SEALED BY THE CONSULTANT.



NO.	ISSUES/ REVISIONS	DATE	BY
1	ISSUED FOR REVIEW	2026-03-04	G.G.
2	ISSUED FOR PERMIT AND TENDER	2026-03-11	G.G.



Gallardo —
Engineering Inc.
228-4558 Highway 7
Woodbridge, ON
L4L 4Y7
(905) 265-1052
info@galloenr.com
www.gallardoeng.com

This drawing is the property of GALLARDO ENGINEERING INC.
This drawing shall be read in conjunction with the architectural, structural, electrical and all other consultant's drawings prior to proceeding with the work. Do not scale the drawings.

The contractor is to verify and accept responsibility for all dimensions and conditions on site and must notify GALLARDO ENGINEERING INC. of any variations from the drawings.



PROJECT:
SUSANNA MOODIE
PUBLIC SCHOOL
WASHROOM RENOVATION

376 AVONLOUGH ROAD
BELLEVILLE, ONTARIO
HASTINGS & PRINCE EDWARD DISTRICT SCHOOL BOARD

DRAWING:
PART GROUND FLOOR
PLAN - DRAINAGE
NEW

DESIGN BY: JH
DRAWN BY: RC
CHECKED BY: JH
DATE: JAN. 2026
SCALE: AS SHOWN



PROJECT NO: 25030
DRAWING NO: M-3.4

