

CONSTRUCTION NOTES

GENERAL NOTES

1. CONFORM TO THE REQUIREMENTS OF THE 2012 ONTARIO BUILDING CODE (OBC) INCLUDING ALL THE LATEST STANDARDS REFERENCED THEREIN, AND ANY APPLICABLE ACTS OF AUTHORITY HAVING JURISDICTION. THE LATEST VERSION OF ALL STANDARDS AND CODES LISTED BELOW SHALL BE USED.
2. READ STRUCTURAL DRAWINGS IN CONJUNCTION WITH ALL OTHER SPECIFICATIONS AND CONTRACT DOCUMENTS.
3. WHERE DISCREPANCIES EXIST BETWEEN CONTRACT DOCUMENTS, INCLUDING DRAWINGS AND APPLICABLE CODES AND ACTS, THE MOST STRINGENT SHALL GOVERN. CONTRACTOR SHALL CHECK ALL DIMENSIONS ON WORKING DRAWINGS AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
4. THESE DESIGN DOCUMENTS ARE PREPARED SOLELY FOR THE USE BY THE PARTY WITH WHOM THE DESIGN PROFESSIONAL HAS ENTERED INTO A CONTRACT AND THERE ARE NO REPRESENTATIONS OF ANY KIND MADE BY THE DESIGN PROFESSIONAL, TO ANY PARTY WITH WHOM THE DESIGN PROFESSIONAL HAS NOT ENTERED INTO A CONTRACT.
5. THE USE OF THESE DRAWINGS IS LIMITED TO THAT IDENTIFIED IN THE REVISION COLUMN. DO NOT CONSTRUCT FROM THESE DRAWINGS UNLESS MARKED "ISSUED FOR CONSTRUCTION" BY MTE CONSULTANTS.
6. UNDER NO CIRCUMSTANCES ARE THESE DRAWINGS TO BE SCALED, INCLUDING FOR PREPARATION OF SHOP DRAWINGS, CONSTRUCTION LAYOUT, OR BIDDING PURPOSES. ERRORS MADE BY PERSONS SCALING THESE DRAWINGS SHALL NOT BE THE RESPONSIBILITY OF MTE CONSULTANTS.
7. SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS AND SIZES OF PITS, OPENINGS, BASES, HOUSE KEEPING PADS, SUMPS, TRENCHES, DEPRESSIONS, GROOVES, CURBS, CHAMFERS AND SLOPES NOT SHOWN ON STRUCTURAL DRAWINGS.
8. BEFORE PROCEEDING WITH WORK, THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIARIZED WITH ALL CHARACTERISTICS AFFECTING NEW AND EXISTING CONSTRUCTION. ANY CHANGES, ALTERATIONS OR REVISIONS MUST BE REPORTED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
9. SUBSTITUTIONS FROM SPECIFIED PRODUCTS AND MATERIALS MUST BE APPROVED IN WRITING BY THE ENGINEER PRIOR TO ORDERING OF MATERIALS. THE CONTRACTOR SHALL REIMBURSE ALL CONSULTANTS FOR ADDITIONAL COSTS INCURRED AS A RESULT OF REVIEWING ANY CHANGES MADE TO THE CONTRACT DOCUMENTS.
10. ALL WORK IS TO BE PERFORMED IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS - O.R.G. 213/91.
11. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO DESIGN ALL SHORING AND TEMPORARY BRACING AS PER O.R.G. 213/91 AND THE CONTRACTOR SHALL RETAIN AN ENGINEER AS REQUIRED.
12. THE CONTRACTOR SHALL RETAIN AN INDEPENDENT INSPECTION AND TESTING COMPANY TO ENSURE THAT ALL WORK IS DONE IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS. REQUIRED TESTING SHALL BE AS PER THE TESTING AND INSPECTION TABLE.
13. MTE CONSULTANTS WILL PROVIDE GENERAL REVIEW OF CONSTRUCTION IN ACCORDANCE WITH THE PERFORMANCE STANDARDS OF THE ASSOCIATION OF PROFESSIONAL ENGINEERS OF ONTARIO BY MEANS OF A RATIONAL SAMPLING PROCEDURE TO DETERMINE WHETHER THE CONSTRUCTION OF THAT WORK SHOWN ON THE MTE DRAWINGS IS IN GENERAL CONFORMITY WITH THE PLANS, SKETCHES, DRAWINGS, AND SPECIFICATIONS FORMING PART OF THE CONTRACT DOCUMENTS PREPARED BY "MTE". THE CONTRACTOR IS SOLELY RESPONSIBLE FOR QUALITY CONTROL AND THE PERFORMANCE OF THE WORK IN ACCORDANCE WITH THE CONTRACT. "MTE" SHALL NOT BE RESPONSIBLE FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUB-CONTRACTOR, OR ANY OTHER PERSON PERFORMING ANY OF THE WORK OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
14. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER OF CONSTRUCTION PROGRESS SO THE ENGINEER CAN COMPLETE GENERAL REVIEWS. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A CONSTRUCTION SCHEDULE PRIOR TO STARTING THE WORK. GENERALLY, REVIEWS BY THE ENGINEER WILL BE REQUIRED FOR REBAR PRIOR TO CONCRETE PLACEMENT, FOOTING AND FOUNDATIONS PRIOR TO BACKFILLING, AND ABOVE GRADE FRAMING PRIOR TO INSTALLATION OF INTERIOR FINISHES.

TESTING AND INSPECTION

1. THE FOLLOWING ITEMS REQUIRE TESTING OR INSPECTION BY A CERTIFIED INDEPENDENT TESTING OR INSPECTION AGENCY UNLESS NOTED OTHERWISE. THE AGENCY SHALL SEND COPIES OF ALL STRUCTURAL TESTING AND INSPECTION REPORTS TO THE ENGINEER FOR REVIEW.

REQUIRED SUBMITTALS	COMMENTS
REINFORCING STEEL PLACEMENT	INSPECT FINAL PLACEMENT
STRUCTURAL STEEL WELDING	INSPECT ALL FIELD WELDS
MORTAR CUBES	
COLD FORMED STEEL	

CONCRETE AND REINFORCING

1. ALL CONCRETE WORK TO CONFORM TO THE LATEST REQUIREMENTS OF CSA STANDARDS A23.1, A23.2 & A23.3.
2. REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF CAN/CSA G30.18 GRADE 400R FOR REINFORCING STEEL AND BE DEFORMED HI-BOND HARD GRADE WITH MINIMUM YIELD STRENGTH OF Fy=400MPa.
3. WELDING OF REINFORCING STEEL SHALL NOT BE PERMITTED UNLESS SPECIFICALLY NOTED ON THE DRAWINGS. IF PERMITTED, GRADE 400U DEFORMED REINFORCING STEEL IS TO BE USED AND WELDING IN ACCORDANCE WITH CSA W186.
4. WELDED WIRE MESH AND WELDED WIRE FABRIC SHALL CONFORM TO THE REQUIREMENTS OF CAN/CSA G30.5 WITH A MINIMUM YIELD STRENGTH OF Fy = 450MPa. ALL WELDED WIRE PRODUCTS ARE TO BE SUPPLIED AS FLAT SHEETS AND SHALL BE LAPPED A MINIMUM OF 150mm (6") AT JOINTS (U.N.O.).
5. DETAILING AND PLACING OF ALL REINFORCING STEEL SHALL BE IN ACCORDANCE WITH THE REINFORCING STEEL INSTITUTE OF CANADA "MANUAL OF STANDARD PRACTICE".
6. ALL REINFORCING STEEL SHALL BE SHOP FABRICATED TO INCLUDE HOOKS AND BENDS AS REQUIRED.
7. ALL REINFORCING LAP SPLICES SHALL CONFORM TO THE LATEST CSA STANDARD A23.3 AND ALL BAR SPLICES SHALL BE CLASS "B" TENSION SPLICES (U.N.O.).
- 7.1. NO BAR SPLICES SHALL BE LESS THAN IN THE TABLE BELOW.
- 7.2. INCREASE HORIZONTAL SPlice LENGTHS IN THE TABLE BY 1.3 WHERE MORE THAN 300mm (12") OF FRESH CONCRETE IS CAST BELOW THE SPLICE.
- | BAR SIZE | TENSION SPlice (mm) |             |             | COMPRESSION SPlice (mm) |
|----------|---------------------|-------------|-------------|-------------------------|
|          | 25MPa CONC.         | 30MPa CONC. | 35MPa CONC. |                         |
| 10M      | 400 (16")           | 400 (16")   | 400 (16")   | 450 (18")               |
| 15M      | 600 (24")           | 600 (24")   | 600 (24")   | 650 (26")               |
| 20M      | 800 (32")           | 800 (32")   | 800 (32")   | 900 (36")               |
| 25M      | 1200 (48")          | 1100 (44")  | 1000 (40")  | 1300 (52")              |
| 30M      | 1400 (56")          | 1300 (52")  | 1200 (48")  | 1500 (60")              |
| 35M      | 1650 (66")          | 1500 (60")  | 1400 (56")  | 1800 (72")              |
8. ALL DOWEL EMBEDMENT SHALL MATCH THE ABOVE TENSION SPlice LENGTH, UNLESS NOTED OTHERWISE.
9. ALL HORIZONTAL BARS SHALL BE HOOKED 300mm (12") AROUND CORNERS.
10. ALL REINFORCING STEEL FABRICATION AND PLACEMENT DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW BEFORE FABRICATION.
11. PLACE REINFORCING BARS SYMMETRICALLY OVER SUPPORTS AND SYMMETRICALLY IN SPANS, UNLESS NOTED OTHERWISE.
12. REINFORCING BARS, DOWELS AND ANCHOR BOLTS SHALL BE SECURELY TIED IN PLACE SO AS TO MAINTAIN THEIR EXACT POSITION BEFORE AND DURING PLACEMENT OF CONCRETE. BAR SUPPORTS SHALL ONLY BE MADE OF PRECAST CONCRETE BLOCKS, PLASTIC OR WIRE.
13. ALL OIL, GREASE, MUD AND DEBRIS SHALL BE ENTIRELY REMOVED FROM THE REINFORCING STEEL AND ANCHOR BOLTS PRIOR TO THE PLACEMENT OF CONCRETE. REBAR SHALL BE STORED ON SITE IN A MANNER TO BE KEPT CLEAN AND FREE FROM DELETERIOUS MATERIALS.
14. CONFORM TO THE CONCRETE COVER REQUIREMENTS OF CSA A23.1 AND THE FOLLOWING, UNLESS NOTED OTHERWISE.
- 14.1. CONCRETE CAST AGAINST EARTH: 75mm (3")
- 14.2. PIERS AND WALL: 40mm (1½")
- 14.3. EXPOSED TO DE-ICING CHEMICALS: 60mm (2½")
- 14.4. INTERIOR SLABS AND BEAMS: 40mm (1½")
15. CONCRETE PROPERTIES:
- 15.1. ALL CONCRETE SHALL HAVE A 28 DAY MINIMUM COMPRESSIVE STRENGTH OF 20MPa UNLESS OTHERWISE SPECIFIED.
- 15.2. CONCRETE MIX DESIGN SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO USE AT JOB SITE.

USE	CSA CLASS	28 DAY COMP. STRENGTH (MPa)	MAX. W/C RATIO	AIR CONTENT (%)	MAX. AGGREGATE SIZE (mm)	SUMP (mm)
FOUNDATION/RETAINING WALLS	F-2	25	0.55	4-7	20	80 ±30

16. WHEN SUPER-PLASTICIZERS ARE USED, THE SLUMP MAY BE INCREASED BEYOND THE VALUES GIVEN, BUT SHALL BE BELOW THE POINT WHERE SEGREGATION WILL OCCUR. THE COST OF SUPER-PLASTICIZERS SHALL BE INCLUDED IN THE COST OF CONCRETE.
17. DO NOT ADD WATER TO CONCRETE UNLESS WRITTEN APPROVAL GIVEN BY THE ENGINEER. IF HIGHER SLUMP CONCRETE IS DESIRED, CONCRETE SUPPLIER SHALL DESIGN AND SUPPLY ACCORDINGLY.
18. HOT AND COLD WEATHER CONCRETING SHALL COMPLY WITH ALL REQUIREMENTS OF CSA STANDARD A23.1. CALCIUM CHLORIDE ADDITIVES WILL NOT BE PERMITTED.
19. ALL CONCRETE FORMWORK TOLERANCES AND SURFACE FINISHES SHALL COMPLY WITH CSA STANDARD A23.1 UNLESS NOTED OTHERWISE ON THE ARCHITECTURAL DRAWINGS.
20. ALL CONCRETE FORMS TO BE WET THOROUGHLY BEFORE POURING CONCRETE.
21. WATER CURING OF CONCRETE IS RECOMMENDED. CURE AND PROTECT ALL CONCRETE IN ACCORDANCE WITH CSA A23.1 SECTION 7.4.
22. ALL CONCRETE EXPOSED SLABS ON GRADE 150mm (6") THICK OR LESS SHALL BE MECHANICALLY VIBRATED SO AS TO COMPLETELY FILL THE FORM WITHOUT CAUSING UNDESIRABLE SEGREGATION. ANY DEFECTS IN THE HARDENED CONCRETE SHALL BE SATISFACTORILY REPAIRED OR SHALL BE REPLACED.
23. CONTROL JOINTS IN SLABS ON GRADE SHALL BE ¼ THE THICKNESS OF THE SLAB. SPACING OF CONTROL JOINTS IN CONCRETE SLABS-ON-GRADE SHALL NOT EXCEED THE GREATER OF 30 TIMES THE THICKNESS OF THE SLAB OR 4500mm (15'-0") UNLESS NOTED ON THE DRAWINGS.
24. WHERE STEEL BEARING PLATES ARE SHOWN ON THE DRAWINGS, THEY SHALL BE ANCHORED WITH A MINIMUM OF TWO 12mm DIA. x 450mm LONG + 50mm (½" DIA. x18" LONG + 2") HOOKED ANCHOR RODS WELDED TO THE PLATES AND EMBEDDED INTO THE CONCRETE.
25. CHECK ALL STRUCTURAL, ARCHITECTURAL, MECHANICAL, ELECTRICAL, CIVIL, LANDSCAPE AND ALL OTHER RELEVANT DRAWINGS FOR LOCATIONS AND SIZES OF BOLTS, SLEEVES AND OPENINGS.
26. SUPPLY AND SET ANCHOR BOLTS, SLEEVES, PIPE HANGERS, JOISTS AND OTHER INSERTS AND OPENINGS AS INDICATED OR SPECIFIED ELSEWHERE.
- 26.1. FOR BEAMS AND COLUMNS: NO SLEEVES, DUCTS, PIPES OR OTHER OPENINGS SHALL PASS VERTICALLY OR HORIZONTALLY EXCEPT WHERE EXPRESSLY DETAILED ON STRUCTURAL DRAWINGS OR WHERE APPROVED IN ADVANCE BY ENGINEER.
- 26.2. FOR SLABS AND WALLS: ALL SLEEVES AND OPENINGS GREATER THAN 100mm (4") IN ANY DIMENSION OR REQUIRING THE CUTTING OF ANY REINFORCEMENT, AND NOT INDICATED ON STRUCTURAL DRAWINGS, MUST BE APPROVED BY THE ENGINEER.
- 26.3. FOR MULTIPLE OPENINGS OR SLEEVES: IF WITHIN 600mm (24") OF EACH OTHER CONSULT ENGINEER FOR DIRECTION.
27. CAST IN ANCHOR BOLTS SHALL CONFORM TO THE LATEST CSA STANDARD G40.21 OR ASTM F1554 WITH A MINIMUM YIELD STRENGTH OF 250MPa AND SHALL BE SET TRUE AS TO LOCATION, ELEVATION AND PROJECTION TO THE FOLLOWING TOLERANCES:
- 27.1. ANCHOR BOLT LOCATION = +/- 3mm (⅛")
- 27.2. ANCHOR BOLT PROJECTION = +/- 6mm (¼").
28. UNLESS NOTED OTHERWISE ON DRAWINGS ALL REFERENCES TO EPOXY ARE FOR HILTI HIT-HY 200. FOLLOW MANUFACTURER'S RECOMMENDED INSTALLATION AND TRAINING OF INSTALLERS.

MASONRY

1. ALL MASONRY CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF CSA STANDARDS CAN/CSA-A370, CAN/CSA-A371 AND CSA S304.1.
2. ALL MASONRY UNITS OF CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF CSA STANDARDS CAN/CSA-A370, CAN/CSA-A371 AND CSA S304.1.
3. REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF CAN/CSA G30.18 GRADE 400R FOR REINFORCING STEEL AND BE DEFORMED HI-BOND HARD GRADE WITH MINIMUM YIELD STRENGTH OF Fy = 400MPa.
4. TYPE S MORTAR SHALL BE USED THROUGHOUT FOR LOAD BEARING BLOCK. TYPE N MORTAR SHALL BE USED FOR BRICK VENEER OR DECORATIVE NON-LOAD BEARING BLOCK.
- 4.1. MORTAR CUBE COMPRESSIVE STRENGTHS FROM ASTM C1017
- | MORTAR TYPE | JOB PREPARED | LAB PREPARED |
|-------------|--------------|--------------|
| S           | 8.5MPa       | 12.5MPa      |
| N           | 3.5MPa       | 5.0MPa       |
- 4.2. MORTAR MIX PROPORTIONS: MIX ACCORDING TO TABLE 3 OR 4 OF CSA A179. MORTAR MIX SHALL BE TESTED FOR STRENGTH AND APPROVED BY THE ENGINEER PRIOR TO USE ON THE JOB.
- 4.3. GROUT: WHERE CALLED FOR ON DRAWINGS SHALL CONFORM TO CAN/CSA A179 MINIMUM 28 DAY STRENGTH 20MPa.
5. ALL MASONRY WALLS SHALL BE HORIZONTALLY REINFORCED WITH NO.9 (3.7mm) CONTINUOUS JOINT REINFORCING AT EVERY SECOND COURSE, 400mm (16") USE STANDARD LADDER TYPE REINFORCING FOR GROUTED AND REINFORCED WALLS, TRUSS TYPE FOR UNREINFORCED WALLS.
- 5.1. ALL JOINT REINFORCEMENT SHALL BE HOT-DIPPED GALVANIZED.
- 5.2. REINFORCEMENT SHALL BE LAPPED A MINIMUM OF 300mm (12") AT ALL JOINTS.
- 5.3. PREFABRICATED CORNER AND TEE REINFORCEMENT SHALL BE USED AT ALL WALL INTERSECTIONS.
- 5.4. REINFORCEMENT SHALL BE INSTALLED IN THE FIRST AND SECOND BED JOINTS 200mm (8") APART, BELOW THE TOP OF WALLS.
- 5.5. REINFORCEMENT SHALL BE INSTALLED IN THE FIRST AND SECOND BED JOINTS 200mm (8") APART, IMMEDIATELY ABOVE LINTELS AND BELOW SILLS AND SHALL EXTEND 600mm (24") BEYOND THE JAMB.
- 5.6. REINFORCEMENT SHALL BE PLACED AS TO PROVIDE 16mm (¾") MORTAR COVER ON THE EXTERIOR FACE OF WALL AND 12mm (½") COVER ON THE INTERIOR FACE OF WALL.
6. ALL TIES FOR MASONRY VENEER SHALL BE DESIGNED AND SUPPLIED BY THE MASONRY CONTRACTOR IN ACCORDANCE WITH CSA STANDARDS S304.1 AND CAN/CSA-A370. ALL TIES TO STEEL STUDS ARE TO BE SIDE MOUNTED (FACE MOUNTED NOT ACCEPTABLE).
7. PROVIDE COLD WEATHER PROTECTION AS REQUIRED BY CAN/CSA-A371 "MASONRY CONSTRUCTION FOR BUILDINGS".
8. ALL BLOCK MASONRY UNITS SHALL BE CONSTRUCTED WITH FULL HEAD JOINTS, AND FULL BED JOINTS UNDER THE FULL BEARING AREAS OF THE FACE SHELLS, AND UNDER WEBS SURROUNDING THOSE CELLS TO BE FILLED WITH GROUT.
9. THE INTERSECTION OF ALL MASONRY WALLS SHALL BE TOOTHED OR CONTINUOUSLY REINFORCED WITH JOINT REINFORCEMENT.
10. PROVIDE A MINIMUM DEPTH OF 200mm (8") OF 100% SOLID MASONRY UNITS, OR FULLY GROUTED UNITS, FOR SLABS OR STEEL DECK BEARING ON MASONRY, UNLESS MORE IS SHOWN ON THE DRAWINGS.
11. ALL MASONRY BENEATH CONCENTRATED LOADS (SUCH AS BEAMS, LINTELS, AND JOISTS) SHALL HAVE VOIDS FILLED WITH 20MPa GROUT FOR A MINIMUM DEPTH OF 400mm (16") OR 3 TIMES THE LENGTH OF BEARING (WHICHEVER IS GREATER) AND PROJECTING A MINIMUM OF 200mm (8") ON THE LENGTH OF BEARING BEYOND EACH END OF BEARING (WHICHEVER IS GREATER), UNLESS OTHERWISE NOTED OR SHOWN.
12. WHERE STEEL BEARING PLATES ARE SHOWN ON THE DRAWINGS, THEY SHALL BE ANCHORED WITH A MINIMUM OF TWO 12mm DIA. x 450mm LONG + 50mm (½" DIA. x 18" LONG + 2") HOOKED ANCHOR RODS WELDED TO THE PLATES AND EMBEDDED INTO GROUT FILL AS NOTED ABOVE.
13. SEE PLANS AND SCHEDULES REGARDING JOINT SIZES FOR MASONRY WALLS AND VENEER. FOR ALL OPENINGS OR RECESSES IN MASONRY NOT SHOWN ON DRAWINGS GREATER THAN 300mm (12") AND UP TO 1200mm (4'-0"), INCLUDING THOSE FOR MECHANICAL OR ELECTRICAL SERVICES OR EQUIPMENT, PROVIDE ONE 18x89x6.4 (L3½x3½x½") ANGLE FOR EACH 100mm (4") THICKNESS OF WALL.
14. MAINTAIN SUPPORT OF MASONRY LINTELS FOR A MINIMUM OF SEVEN DAYS OR UNTIL SUFFICIENT STRENGTH IS GAINED TO SAFELY SUPPORT LOADS IMPOSED.
15. FULLY GROUT BLOCK CELLS AT PARAPETS.
16. ALL MASONRY WALLS SHALL BE ADEQUATELY BRACED DURING CONSTRUCTION UNTIL ADEQUATE DIAPHRAGM ACTION CAN BE DEVELOPED BY INSTALLED FLOOR AND ROOF STRUCTURAL COMPONENTS.
17. ALL NON-LOAD BEARING BLOCK WALLS SHALL BE BRACED TO THE STRUCTURE ABOVE AT A MAXIMUM SPACING OF 1800mm (6'-0") O.C.
18. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF MASONRY CONTROL JOINTS. SPACING OF CONTROL JOINTS IN ALL WALLS SHALL BE CONSTRUCTED AS PER PLAN, BUT SHALL NOT EXCEED 6000mm (20'-0") O.C. ALL REINFORCING TO BE DISCONTINUOUS AT CONTROL JOINTS. CONTROL JOINTS SHALL BE CAULKED WITH FOAM BACKER ROD AND SHALL NOT BE FILLED WITH MORTAR.
19. REINFORCED MASONRY:
- 19.1. CELLS TO BE REINFORCED SHALL BE KEPT CLEAN OF MORTAR.
- 19.2. GROUT FOR REINFORCED CELLS, BOND BEAMS, LINTELS AND CELLS CONTAINING DOWELS, ANCHOR BOLTS AND INSERTS.
- 19.3. PROVIDE MINIMUM 2-15M VERTICALS FULL HEIGHT AT ALL WALL ENDS, CORNERS, INTERSECTIONS AND OPENINGS UNLESS OTHERWISE NOTED ON DRAWINGS.
- 19.4. PROVIDE 1-15M VERTICAL FULL HEIGHT EACH SIDE OF CONTROL JOINTS.
- 19.5. DOWELS FROM FOUNDATIONS TO MATCH VERTICAL REINFORCEMENT IN WALL.
- 19.6. PROVIDE THE FOLLOWING LAPS FOR THE REINFORCEMENT INDICATED:
- 10M BARS = 450mm (18")
  - 15M BARS = 600mm (24")
  - 20M BARS = 900mm (36")
- EMBEDDED ITEMS ARE NOT TO INTERFERE WITH THE INTEGRITY OF THE MASONRY WALL OR LOCATION OF REINFORCEMENT. PROVIDE FULLY GROUTED LINTEL BEAM FOR CONDUITS AND PIPES RUNNING HORIZONTALLY WITHIN WALL.

STRUCTURAL STEEL

1. ALL STRUCTURAL STEEL AND CONNECTIONS SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST CSA STANDARD S16.
2. STRUCTURAL STEEL SHALL CONFORM TO CAN/CSA-G40.20 FOR GENERAL REQUIREMENTS, AND CAN/CSA-G40.21 FOR QUALITY.
- 2.1. GRADE 350W CLASS C FOR H.S.S.
- 2.2. GRADE 350W FOR W SHAPES, S SHAPES, AND TEES.
- 2.3. ALL OTHER MISCELLANEOUS METAL SHALL BE MINIMUM GRADE 300W (U.N.O.)
3. BOLTED CONNECTIONS SHALL USE MINIMUM 19mm (¾") DIAMETER ASTM A325 BOLTS, ALL BOLTS, NUTS AND WASHERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A325 EXCEPT THAT ANCHOR BOLTS SHALL BE FABRICATED FROM STEEL ROD CONFORMING TO CSA STANDARD G40.21 OR ASTM F1554 WITH A MINIMUM YIELD STRENGTH OF 250MPa.
4. STEEL COATINGS - UNLESS NOTED OTHERWISE ALL STRUCTURAL STEEL SHALL BE CLEANED AND PREPARED TO A MINIMUM LEVEL OF SSPC SP-3 AND IN ACCORDANCE WITH CSA STANDARD S16:
- 4.1. ALL INTERIOR STEEL THAT IS TO BE PROTECTED BY A SPRAY APPLIED GEMENTITIOUS FIRE PROOFING SHALL BE CLEANED AND REMAIN UNCOATED STEEL.
- 4.2. ALL OTHER INTERIOR STRUCTURAL STEEL SHALL BE SHOP PRIMER PAINTED AS PER CSA/CAN-S-16.
- 4.3. ALL STEEL EXPOSED TO WEATHER IS TO BE HOT DIP GALVANIZED IN ACCORDANCE TO CAN/CSA-G164. TOUCH UP OF WELDS, CUTS OR SCRATCHES TO GALVANIZING SHALL BE DONE WITH A MINIMUM OF 3 COATS OF ZINC RICH PAINT.
5. WELDING OF STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF CSA STANDARD W59 AND SHALL BE UNDERTAKEN BY A FABRICATOR AND ERECTOR FULLY APPROVED BY THE CANADIAN WELDING BUREAU TO THE REQUIREMENTS OF CSA STANDARD W47, DIVISION 1 AND DIVISION 2. FABRICATOR TO SUPPLY CERTIFICATION OF FUSION WELDING, AND WELDING MAY ONLY BE CARRIED OUT IN ACCORDANCE WITH OWNER'S SAFETY REGULATIONS REGARDING WELDING.
6. FABRICATOR SHALL DESIGN CONNECTIONS AND THE LIKE IN ACCORDANCE WITH THE OBC FOR THE FORCES SHOWN ON THE DRAWINGS. WHERE FORCES ARE NOT TAKEN ON THE DRAWINGS, BEAM REACTIONS SHALL BE TAKEN AS ONE-HALF OF THE TOTAL UNIFORMLY DISTRIBUTED FACTORED LOADS NOTED ON THE BEAM LOAD TABLES OF PART FIVE OF CISC'S HANDBOOK OF STEEL CONSTRUCTION, LATEST EDITION, PROVIDED NO POINT LOADS ACT ON THE BEAM. ALL WELDS SHALL BE 5mm (¾") MIN. FILLET. ALL BOLTS SHALL BE MIN. M20 (¾") DIAMETER AND PROVIDE MIN. (2) BOLTS PER CONNECTION.
7. SHOP DRAWINGS OF STRUCTURAL STEEL SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW BEFORE FABRICATION.

COLD FORM STEEL FRAMING [BY FABRICATOR]

1. DESIGN COLD FORMED STEEL FRAMING IN CONFORMANCE WITH THE REQUIREMENTS OF CSA S136.
2. DESIGN ALL COLD FORMED STEEL FRAMING MEMBERS FOR THE GRAVITY AND LATERAL LOADINGS INDICATED ON THE DRAWINGS AND IN ACCORDANCE WITH THE OBC.
3. CONFORM TO THE DEFLECTION REQUIREMENTS OF CSA S304.1 FOR STUDS SUPPORTING MASONRY VENEER.
4. SHOP DRAWINGS FOR ALL COLD FORMED STRUCTURAL STEEL FRAMING INCLUDING CONNECTION, BRACING AND BRIDGING DETAILS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW BEFORE FABRICATION.
5. SHOP DRAWINGS FOR ALL COLD FORMED STRUCTURAL STEEL FRAMING SHALL SHOW BOTH DESIGN AND INSTALLATION REQUIREMENTS. RETAIN A LICENSED PROFESSIONAL ENGINEER OF THE PROVINCE OF ONTARIO TO PREPARE, SEAL AND SIGN ALL SHOP DRAWINGS; AND TO PERFORM FIELD REVIEW.
6. STEEL SHALL MEET THE REQUIREMENTS OF ASTM A653 STANDARD SPECIFICATION FOR STEEL SHEET, ZINC COATED (GALVANIZED) BY THE HOT-DIP PROCESS. STRUCTURAL (PHYSICAL) QUALITY. STEEL STUDS 18 ga. AND LIGHTER SHALL HAVE MINIMUM YIELD STRENGTH OF 230MPa (33ksi). HEAVIER STUDS SHALL HAVE MINIMUM YIELD STRENGTH OF 345MPa (50ksi).

DEMOLITION

1. CONTRACTOR SHALL PROTECT THE EXISTING 1913 HERITAGE DESIGNATED RUMPEL FELT BUILDING FROM DAMAGE AND VIBRATIONS, AS WELL AS RESPECT AND FULFILL ALL REQUIREMENTS REGARDING THE DISPOSAL OF CONTAMINATED SOIL AND GROUNDWATER, BEING AWARE OF HAZARDOUS MATERIALS AS PER THE DESIGNATED SUBSTANCE ASSESSMENT REPORT, AND NOT UNDERMINING EXISTING FOUNDATIONS TO REMAIN.
2. CONTRACTOR TO ENSURE CONTINUOUS SECURITY OF THE BUILDING UNTIL TURN OVER TO THE REGION AND ENSURE HEALTH AND SAFETY CONSIDERATIONS OF ALL WORKERS.
- 2.1. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN SAFE ACCESS TO PEDESTRIAN AND VEHICLE TRAFFIC. IF UTILITY SERVICES MUST BE INTERRUPTED, THE CONTRACTOR SHALL COORDINATE THAT SHUTDOWN AT LEAST ONE WEEK IN ADVANCE WITH OWNER'S REPRESENTATIVE AND REGULATORY AUTHORITY. LANE REDUCTIONS ARE NOT PERMITTED ON VICTORIA STREET DURING MORNING AND EVENING WEEKDAY RUSH HOURS.
3. CONTRACTOR TO MAINTAIN SAFE ACCESS TO THE EXISTING ADJACENT PUBLICLY ACCESSIBLE AREAS SURROUNDING THE SITE, INCLUDING PEDESTRIAN WALKWAYS, SIDEWALKS AND VEHICULAR ACCESS TO ROADWAYS.
4. EROSION CONTROL SHALL BE IN PLACE PRIOR TO ANY SOIL DISTURBANCE, INCLUDING PAVEMENT REMOVAL.
5. ALL FOUNDATIONS, SLABS, STRUCTURAL STEEL, MASONRY, SIDEWALKS, RETAINING WALLS, CURBS, APPARATUS, ETC., WITHIN THE DESIGNATED DEMOLITION LINES SHALL BE DEMOLISHED AND REMOVED. ALL EXISTING UTILITIES, PAVEMENT, CURBS, STRUCTURES OR OTHER IMPROVEMENTS MUST BE REMOVED WITHIN PROPOSED DEMOLITION FOOTPRINT.
6. ALL SIDEWALKS, SLABS, FOUNDATIONS AND MISCELLANEOUS DEMOLITION SHALL BE SPOILED OFF-SITE UNLESS OTHERWISE DIRECTED BY THE OWNER'S REPRESENTATIVE. NO BURNING OF DEBRIS SHALL BE ALLOWED. REPRESENTATIVE NO GARBAGE, ORGANICS OR OTHER DEBRIS IS ALLOWED AS FILL. FILL PLACED IN LIFTS GREATER THAN 600mm (2'-0") BELOW SUB-GRADE SHALL NOT EXCEED 1500mm (6") IN ANY DIMENSION. FILL PLACED IN LIFTS FROM 600mm (2'-0") BELOW SUB-GRADE TO SUB-GRADE SHALL NOT EXCEED 50mm (2") ANY DIMENSION.
7. THE CONTRACTOR SHALL BE PERMITTED TO SALVAGE ANY EQUIPMENT OR MATERIALS THEY DEEM FEASIBLE FOR THAT PURPOSE. OWNER IS ALLOWED FIRST RIGHT OF REFUSAL. ALL SALVAGED MATERIAL OR ITEMS SHALL BE REMOVED FROM THE SITE IMMEDIATELY UPON REMOVAL OTHERWISE DIRECTED BY THE OWNER'S REPRESENTATIVE. NO SUCH MATERIALS SHALL BE STORED ON THE SITE. ABSOLUTELY NO SALES OF SALVAGED MATERIAL SHALL BE ALLOWED ON THE PROJECT SITE. ANY SALVAGED MATERIAL MUST BE REMOVED AND TRANSPORTED IN A LEGAL MANNER.
8. ALL EXISTING ON-SITE UTILITIES SHALL REMAIN UNLESS DESIGNATED FOR REMOVAL OR SHOULD INTERFERE WITH PROJECT CONSTRUCTION, CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES TO REMAIN. ALL UTILITIES WITHIN THE BUILDING FOOTPRINT WILL BE REMOVED UNLESS OTHERWISE NOTED.
9. MANHOLES, CATCH BASINS, CLEAN OUTS, VALVE BOXES, FRAMES, COVERS AND GRATES REMAIN IN USE SHALL BE PROTECTED AND ADJUSTED TO FINAL GRADES.
10. ALL UTILITIES SHOWN TO BE REMOVED SHALL BE DISPOSED OF OFF-SITE IN A LEGAL MANNER.
11. REMOVE EXISTING UTILITIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE PROPER REMOVAL INCLUDING SAFE SEQUENCING OF REMOVAL FOR ALL UTILITIES. CONTRACTOR SHALL COORDINATE UTILITY REMOVALS WITH UTILITY PROVIDERS AND WITH CITY OF KITCHENER AND ANY APPLICABLE GOVERNING AUTHORITIES. MAINTAIN POSITIVE DRAINAGE AT ALL TIMES. DRAINAGE CONTROLS ARE REQUIRED. NO OFF SITE DRAINAGE IS PERMITTED. REFER TO MTE'S SOIL AND GROUNDWATER MANAGEMENT PLAN AND ADD NOTES TO COVER THAT INFORMATION.
12. FOR ALL UTILITY LINES AND STRUCTURES DESIGNATED TO BE REMOVED, PLACE AND COMPACT STRUCTURAL BACKFILL WITHIN TRENCH IN LIFTS OF MAXIMUM DEPTH OF 12" COMPACTED TO 98% SPMOD. ANY PAVEMENT STRUCTURES THAT ARE REMOVED AS PART OF THE UTILITY REMOVALS/CAPPING SHALL BE REPLACED AND RESTORED TO MATCH EXISTING ADJACENT PAVEMENT STRUCTURES.
13. CONTRACTOR IS RESPONSIBLE TO VERIFY GRADES AND UTILITIES SHOWN ON EXISTING CONDITIONS PLAN PRIOR TO START OF ANY WORK. ANY AND ALL DISCREPANCIES ARE TO BE DOCUMENTED AND SUBMITTED TO THE OWNER'S REPRESENTATIVE AND THE CONSULTANT AT THE TIME OF DISCOVERY.
14. CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK WITH APPROPRIATE UTILITY COMPANIES PRIOR TO STARTING WORK.
15. A PHASE II ESA HAS ALREADY BEEN CONDUCTED, AS WELL AS A DESIGNATED SUBSTANCE SURVEY. CONTRACTOR SHALL READ THESE REPORTS AND COMPLY WITH ALL APPLICABLE REGULATIONS. THE BUILDINGS HAVE DESIGNATED SUBSTANCES, AND THE SITE HAS CONTAMINATED SOIL AND GROUNDWATER.
16. ALL DEBRIS AND SOILS, DERIVED FROM THE CONTRACTOR'S OPERATIONS, FOUND IN THE PUBLIC RIGHT-OF-WAY OR CAUSING NUISANCE TO OPERATIONS, SHALL BE CLEANED AND REMOVED ON A DAILY BASIS OR WHEN NOTIFIED BY THE AUTHORITY HAVING JURISDICTION OR THE OWNER'S REPRESENTATIVE.

DRAWING LIST	
NO.	NAME
A1.0	CONSTRUCTION NOTES
A2.0	WORK PLAN
A2.1	DEMOLITION/REMIADIATION FLOOR PLAN ONE
A2.2	DEMOLITION/REMIADIATION FLOOR PLAN TWO
A2.3	DEMOLITION/REMIADIATION FLOOR PLAN THREE
A2.4	DEMOLITION/REMIADIATION ROOF PLAN
A3.1	ELEVATIONS
A3.2	ELEVATIONS
A4.0	DEMOLITION/REMIADIATION DETAILS
A5.0	PHOTO DETAILS
S2.1	DEMOLITION/REMIADIATION FOUNDATION PLAN
S2.2	DEMOLITION/REMIADIATION FLOOR TWO FRAMING PLAN
S2.3	DEMOLITION/REMIADIATION FLOOR THREE FRAMING PLAN
S2.4	DEMOLITION/REMIADIATION ROOF FRAMING PLAN
S3.1	DEMOLITION and STABILIZATION FLOOR TWO FRAMING PLAN
S3.2	DEMOLITION and STABILIZATION FLOOR THREE FRAMING PLAN
S3.3	DEMOLITION and STABILIZATION ROOF FRAMING PLAN
C1.1	EXISTING CONDITIONS PLAN
C2.1	DEMOLITION and EROSION & SEDIMENT CONTROL PLAN
C2.2	POST DEMOLITION PLAN

NOTE TO CONTRACTOR :

DO NOT SCALE DRAWINGS.

CONTRACTORS MUST CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.

THE OWNER/ARCHITECT/CONTRACTOR IS ADVISED THAT M.T.E. CONSULTANTS INC. CANNOT CERTIFY ANY COMPONENT OF THE SITE WORKS NOT INSPECTED DURING CONSTRUCTION. THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO NOTIFY M.T.E. CONSULTANTS INC. PRIOR TO COMMENCEMENT OF CONSTRUCTION TO ARRANGE FOR INSPECTION.

ISSUED FOR  
HERITAGE REVIEW  
SECOND DRAFT  
APR 08, 2025

HERITAGE REVIEW - SECOND DRAFT	4	APR 08/25
DRAFT REVIEW SET	3	MAR 04/25
DRAFT REVIEW SET	2	FEB 28/25
DRAFT REVIEW SET	1	NOV 08/24



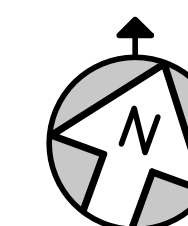
Engineers, Scientists, Surveyors

519-743-6500

CLIENT		REGIONAL MUNICIPALITY OF WATERLOO	
PROJECT		RUMPEL FELT DEMOLITION	
DRAWING		KITCHENER, ON	
CONSTRUCTION NOTES			
Project Manager		Date	SEPTEMBER 2024
PAS		Project No.	33223-301
Design By		Drawing No.	A1.0
PAS			
Drawn By			
STD			
Scale			
NTS			

CONTRACTOR SHALL READ AND COMPLY WITH THE HERITAGE CONSERVATION PLAN (HCP) AND THE RISK MANAGEMENT PLAN (RMP) SUBMITTED TO THE CITY OF KITCHENER.

- RISK MANAGEMENT PLAN**
- THE DEMOLITION AND STABILIZATION PLAN HAS BEEN DEVELOPED WITH THE INTENT TO MINIMIZE VIBRATION AND OTHER CONSTRUCTION ACTIVITIES TO THE PROPERTY DURING DEMOLITION. THE MITIGATION MEANS ARE NOTED BELOW.
- IF REQUIRED, EARTH RETENTION SHORING SHALL BE DESIGN USING DRILLED OR AUGURED PILES SUCH THAT PILE DRIVING IS NOT REQUIRED FOR THE REMOVAL OF THE FOUNDATIONS OF THE BUILDING ADDITIONS.
  - IF REQUIRED, TEMPORARY BUILDING SHORING SHALL UTILIZE HELICAL SCREW PILES SUCH THAT PILE DRIVING IS NOT REQUIRED.
  - NO VIBRATORY EQUIPMENT SHALL BE USED ON SITE.
  - THE CONTRACTOR SHALL REGULARLY MONITOR THE REMAINING FAÇADE DURING DEMOLITION TO ENSURE NO DEGRADATION OF THE FAÇADE IS OCCURRING.
  - CONTINUOUS VIBRATION MONITORING OF THE 1913 BUILDING WILL BE IMPLEMENTED BY THE CONTRACTOR AND THE HERITAGE PROFESSIONAL SHALL REGULARLY VISIT THE SITE DURING DEMOLITION TO REVIEW THE FAÇADE OF THE 1913 BUILDING FOR ANY IMPACT, SHIFTING OR NEW DETEIORATION.
  - IF DAMAGE TO THE HERITAGE RESOURCE DOES OCCUR DURING DEMOLITION, WORK IN THAT AREA OF THE STRUCTURE SHALL IMMEDIATELY BE STOPPED. THE HERITAGE PROFESSIONAL SHALL BE CALLED IN TO REVIEW THE DAMAGE AND DEVELOP A RESTORATION PLAN. WORK SHALL NOT CONTINUE IN THAT AREA UNTIL THE CONTRACTOR HAS ASSESSED THE CAUSE FOR THE DAMAGE AND DEVELOPED UPDATED PROCEDURES TO PREVENT IT FROM HAPPENING FURTHER.
  - SALVAGED BRICKS SHALL BE REMOVED AND CLEANED BY HAND PROCESSES TO PREVENT DAMAGE. BRICKS SHALL BE STORED ON PALLETS, PROTECTIVELY WRAPPED AND STORED IN A SAFE LOCATION.



THE OWNER/ARCHITECT/CONTRACTOR IS ADVISED THAT M.T.E. CONSULTANTS INC. CANNOT CERTIFY ANY COMPONENT OF THE SITE WORKS NOT INSPECTED DURING CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO NOTIFY M.T.E. CONSULTANTS INC. PRIOR TO COMMENCEMENT OF CONSTRUCTION TO ARRANGE FOR INSPECTION.

HERITAGE REVIEW – SECOND DRAFT	4	APR 08/25
DRAFT REVIEW SET	3	MAR 04/25
DRAFT REVIEW SET	2	FEB 28/25
DRAFT REVIEW SET	1	NOV 08/24



519-743-6500

CLIENT  
REGIONAL MUNICIPALITY  
OF WATERLOO

PROJECT

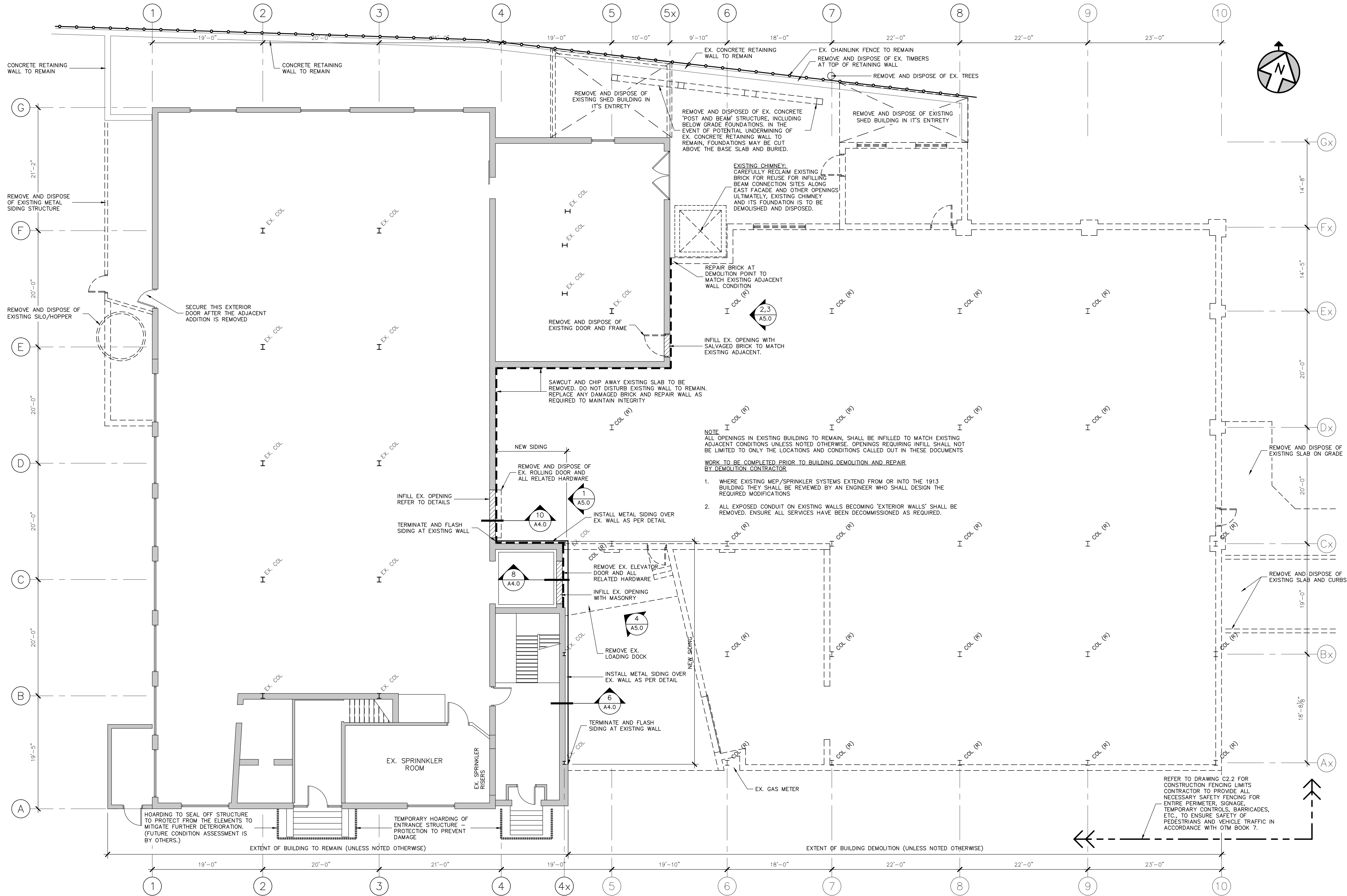
RUMPEL FELT  
DEMOLITION

KITCHENER, ON

DRAWING

WORK PLAN

Project Manager	PAS	Date	SEPTEMBER 202
Design By	PAS	Project No.	33223-301
Drawn By	STD	Drawing No.	<b>A2.0</b>
Scale	1/8"=1'-0"		



FLOOR ONE

1/8"=1'-0"

NOTE TO CONTRACTOR :

DO NOT SCALE DRAWINGS.  
CONTRACTORS MUST CHECK AND VERIFY ALL DIMENSIONS  
AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE  
PROCEEDING WITH THE WORK.

THE OWNER/ARCHITECT/CONTRACTOR IS ADVISED THAT  
M.T.E. CONSULTANTS INC. CANNOT CERTIFY ANY COMPONENT  
OF THE SITE WORKS NOT INSPECTED DURING CONSTRUCTION.  
IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO  
NOTIFY M.T.E. CONSULTANTS INC. PRIOR TO COMMENCEMENT  
OF CONSTRUCTION TO ARRANGE FOR INSPECTION.

ISSUED FOR  
HERITAGE REVIEW  
SECOND DRAFT  
APR 08, 2025

HERITAGE REVIEW - SECOND DRAFT	4	APR 08/25
DRAFT REVIEW SET	3	MAR 04/25
DRAFT REVIEW SET	2	FEB 28/25
DRAFT REVIEW SET	1	NOV 08/24



Engineers, Scientists, Surveyors

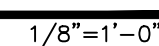
519-743-6500

CLIENT  
REGIONAL MUNICIPALITY  
OF WATERLOO

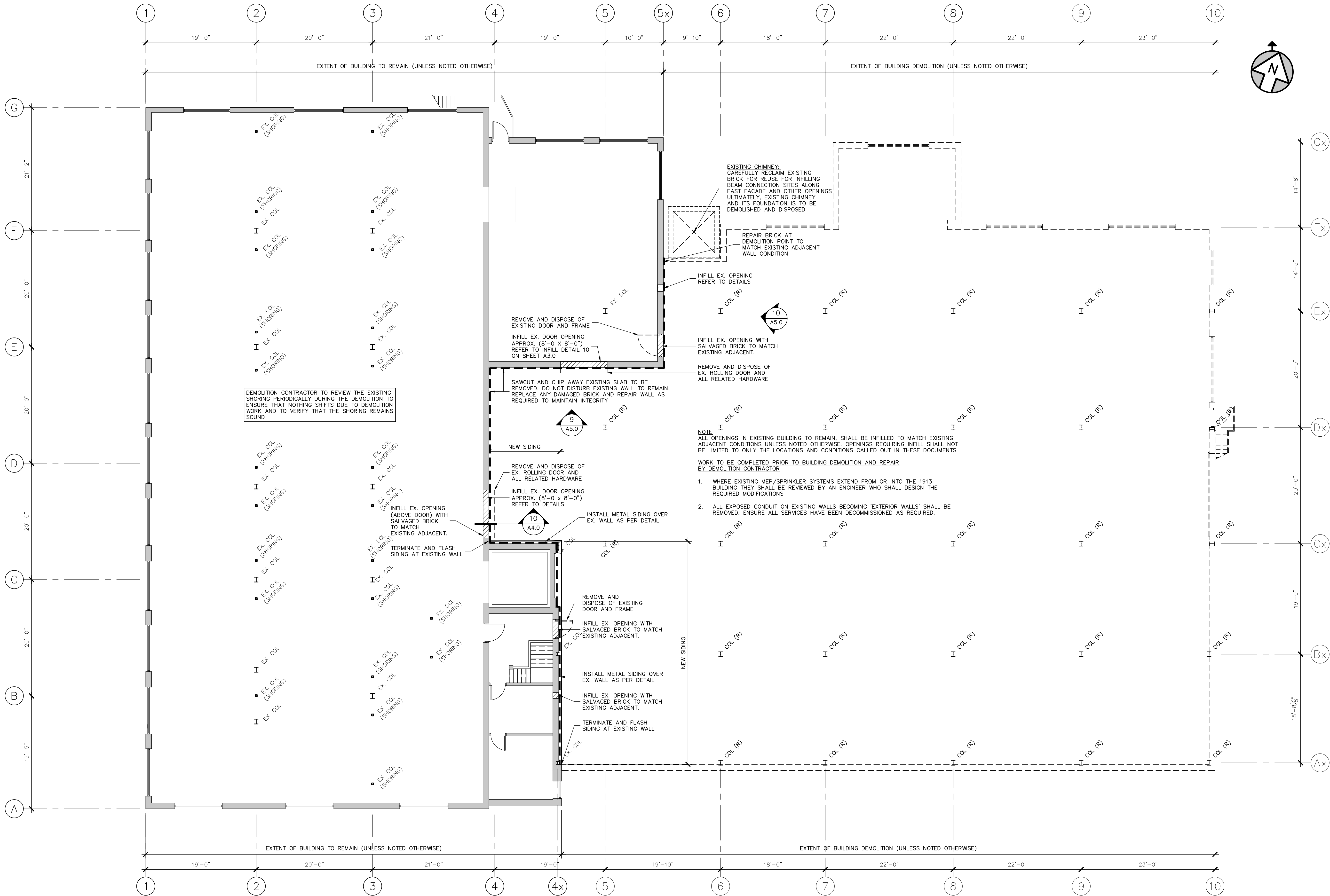
PROJECT  
RUMPEL FELT  
DEMOLITION  
KITCHENER, ONT.

DRAWING  
DEMOLITION / REMEDIATION  
FLOOR ONE PLAN

Project Manager	PAS	Date	SEPTEMBER 2024
Design By	PAS	Project No.	33223-301
Drawn By	STD	Drawing No.	A2.1
Scale	1/8"=1'-0"		



Project Manager	PAS	Date	SEPTEMBER 2024
Design By	PAS	Project No.	33223-301
Drawn By	STD	Drawing No.	A2.2
Scale	1/8"=1'-0"		



FLOOR THREE

1/8"=1'-0"

NOTE TO CONTRACTOR :  
DO NOT SCALE DRAWINGS.  
CONTRACTORS MUST CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.  
  
THE OWNER/ARCHITECT/CONTRACTOR IS ADVISED THAT M.T.E. CONSULTANTS INC. CANNOT CERTIFY ANY COMPONENT OF THE SITE WORKS NOT INSPECTED DURING CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO NOTIFY M.T.E. CONSULTANTS INC. PRIOR TO COMMENCEMENT OF CONSTRUCTION TO ARRANGE FOR INSPECTION.

ISSUED FOR  
HERITAGE REVIEW  
SECOND DRAFT  
APR 08, 2025

HERITAGE REVIEW - SECOND DRAFT	4	APR 08/25
DRAFT REVIEW SET	3	MAR 04/25
DRAFT REVIEW SET	2	FEB 28/25
DRAFT REVIEW SET	1	NOV 08/24



Engineers, Scientists, Surveyors

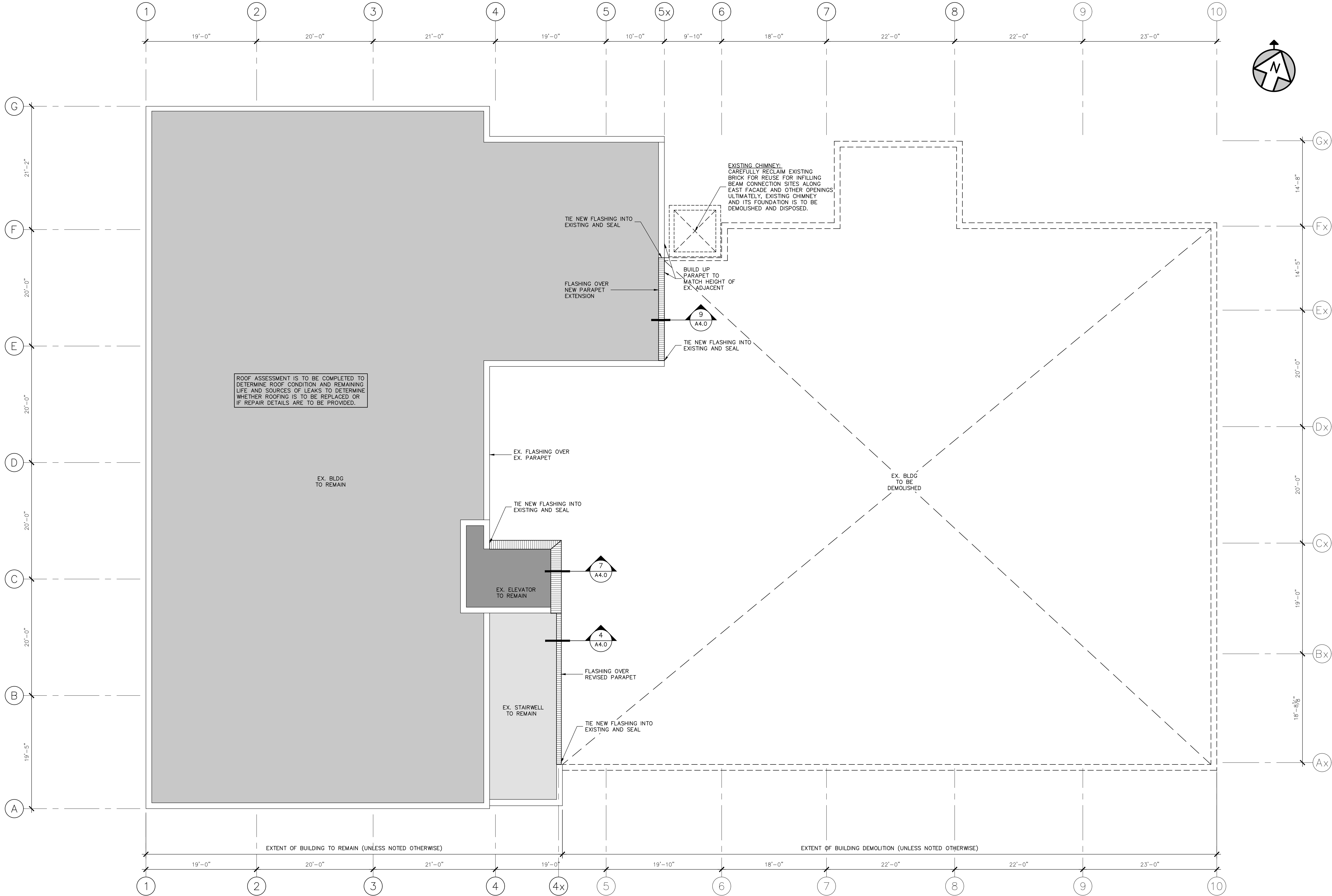
519-743-6500

CLIENT  
REGIONAL MUNICIPALITY  
OF WATERLOO

PROJECT  
RUMPEL FELT  
DEMOLITION  
KITCHENER, ONT.

DRAWING  
DEMOLITION / REMEDIATION  
FLOOR THREE PLAN

Project Manager	PAS	Date	SEPTEMBER 2024
Design By	PAS	Project No.	33223-301
Drawn By	STD	Drawing No.	A2.3
Scale	1/8"=1'-0"		



NOTE TO CONTRACTOR :  
DO NOT SCALE DRAWINGS.  
CONTRACTORS MUST CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.

THE OWNER/ARCHITECT/CONTRACTOR IS ADVISED THAT M.T.E. CONSULTANTS INC. CANNOT CERTIFY ANY COMPONENT OF THE SITE WORKS NOT INSPECTED DURING CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO NOTIFY M.T.E. CONSULTANTS INC. PRIOR TO COMMENCEMENT OF CONSTRUCTION TO ARRANGE FOR INSPECTION.

ISSUED FOR  
HERITAGE REVIEW  
SECOND DRAFT  
APR 08, 2025

HERITAGE REVIEW - SECOND DRAFT	4	APR 08/25
DRAFT REVIEW SET	3	MAR 04/25
DRAFT REVIEW SET	2	FEB 28/25
DRAFT REVIEW SET	1	NOV 08/24



Engineers, Scientists, Surveyors

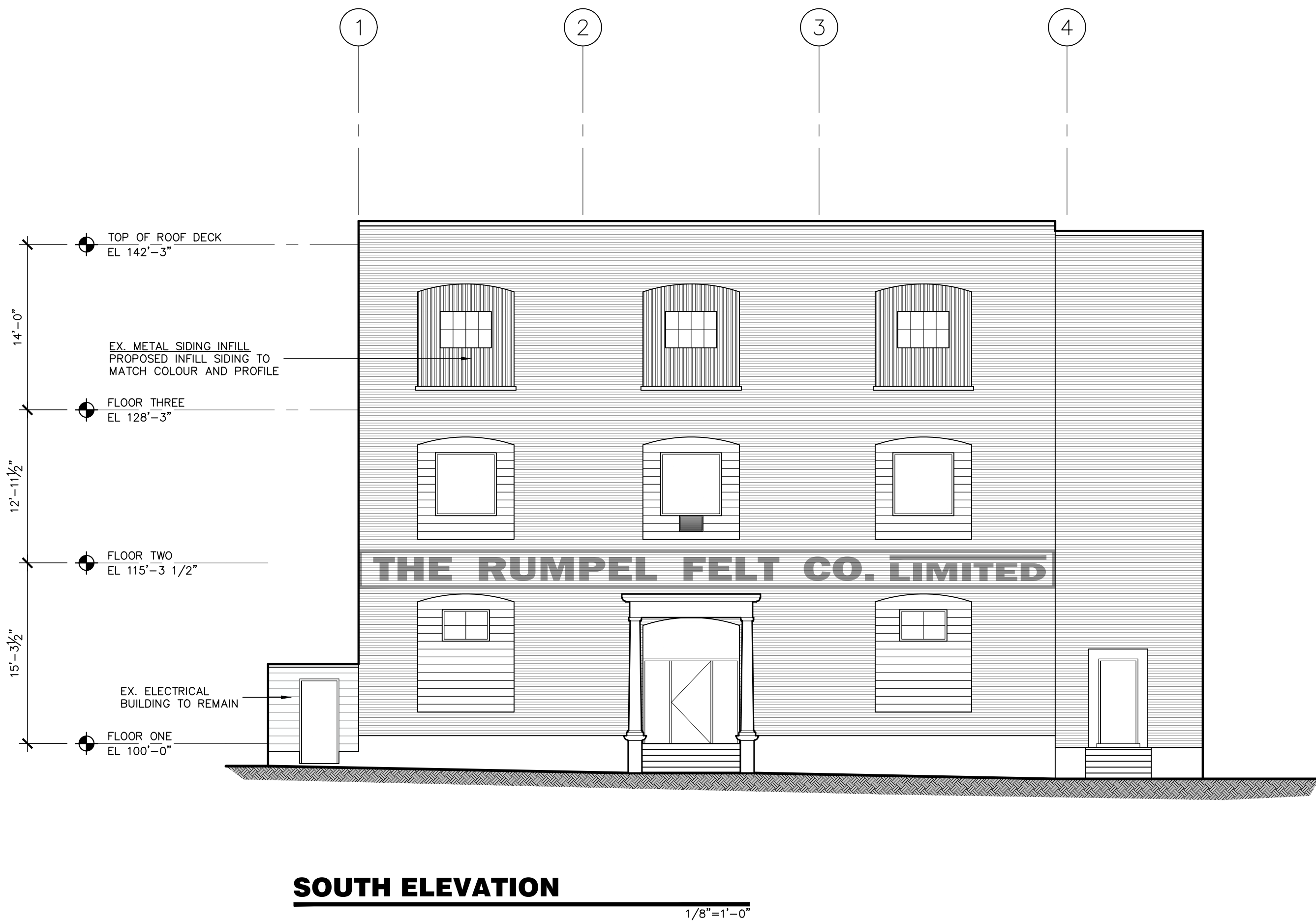
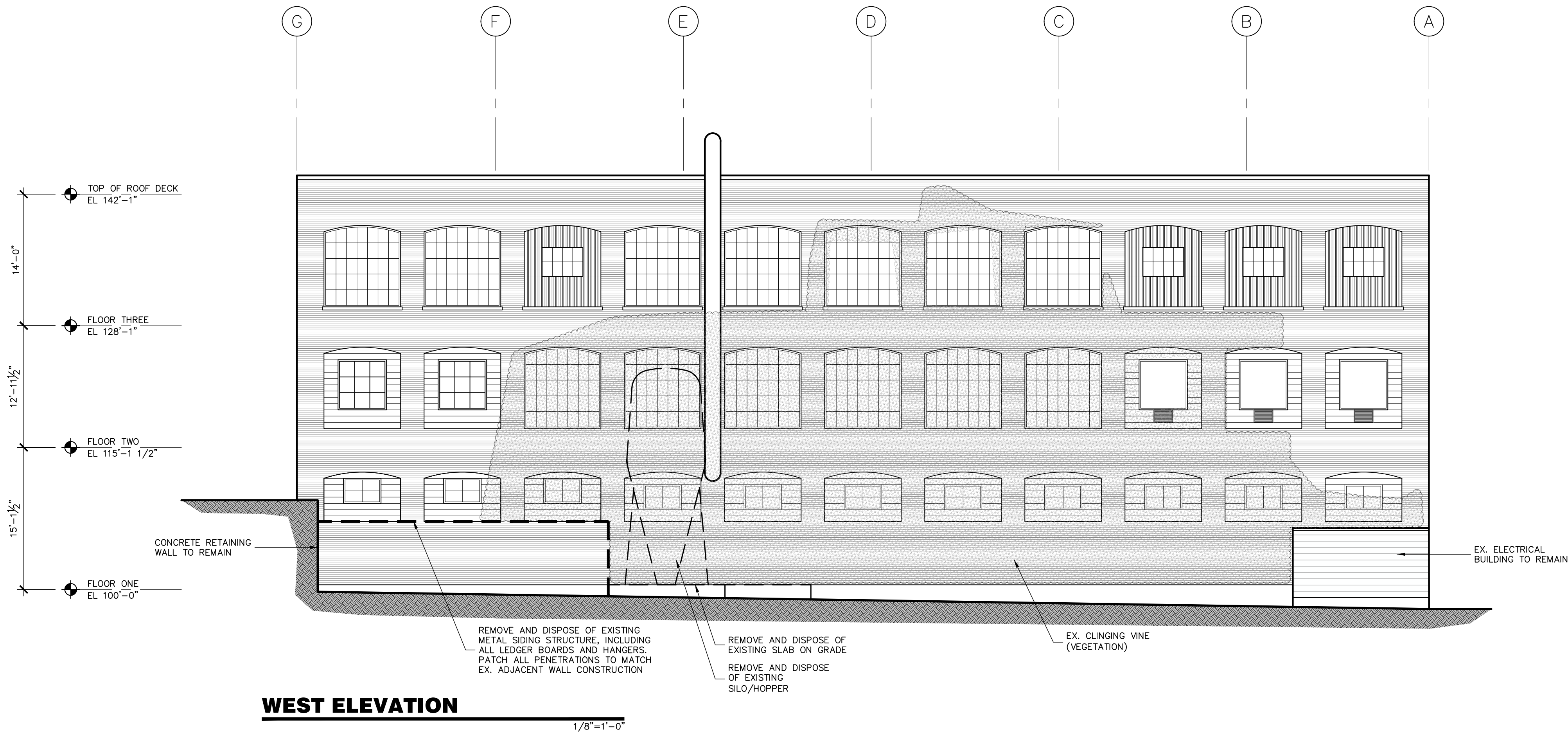
519-743-6500

CLIENT  
REGIONAL MUNICIPALITY  
OF WATERLOO

PROJECT  
RUMPEL FELT  
DEMOLITION  
KITCHENER, ONT.

DRAWING  
DEMOLITION / REMEDIATION  
ROOF PLAN

Project Manager	PAS	Date	SEPTEMBER 2024
Design By	PAS	Project No.	33223-301
Drawn By	STD	Drawing No.	A2.4
Scale	1/8"=1'-0"		



NOTE TO CONTRACTOR :  
DO NOT SCALE DRAWINGS.  
CONTRACTORS MUST CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.  
  
THE OWNER/ARCHITECT/CONTRACTOR IS ADVISED THAT M.T.E. CONSULTANTS INC. CANNOT CERTIFY ANY COMPONENT OF THE SITE WORKS NOT INSPECTED DURING CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO NOTIFY M.T.E. CONSULTANTS INC. PRIOR TO COMMENCEMENT OF CONSTRUCTION TO ARRANGE FOR INSPECTION.

ISSUED FOR  
HERITAGE REVIEW  
SECOND DRAFT  
APR 08, 2025

HERITAGE REVIEW - SECOND DRAFT	4	APR 08/25
DRAFT REVIEW SET	3	MAR 04/25
DRAFT REVIEW SET	2	FEB 28/25
DRAFT REVIEW SET	1	NOV 08/24



Engineers, Scientists, Surveyors

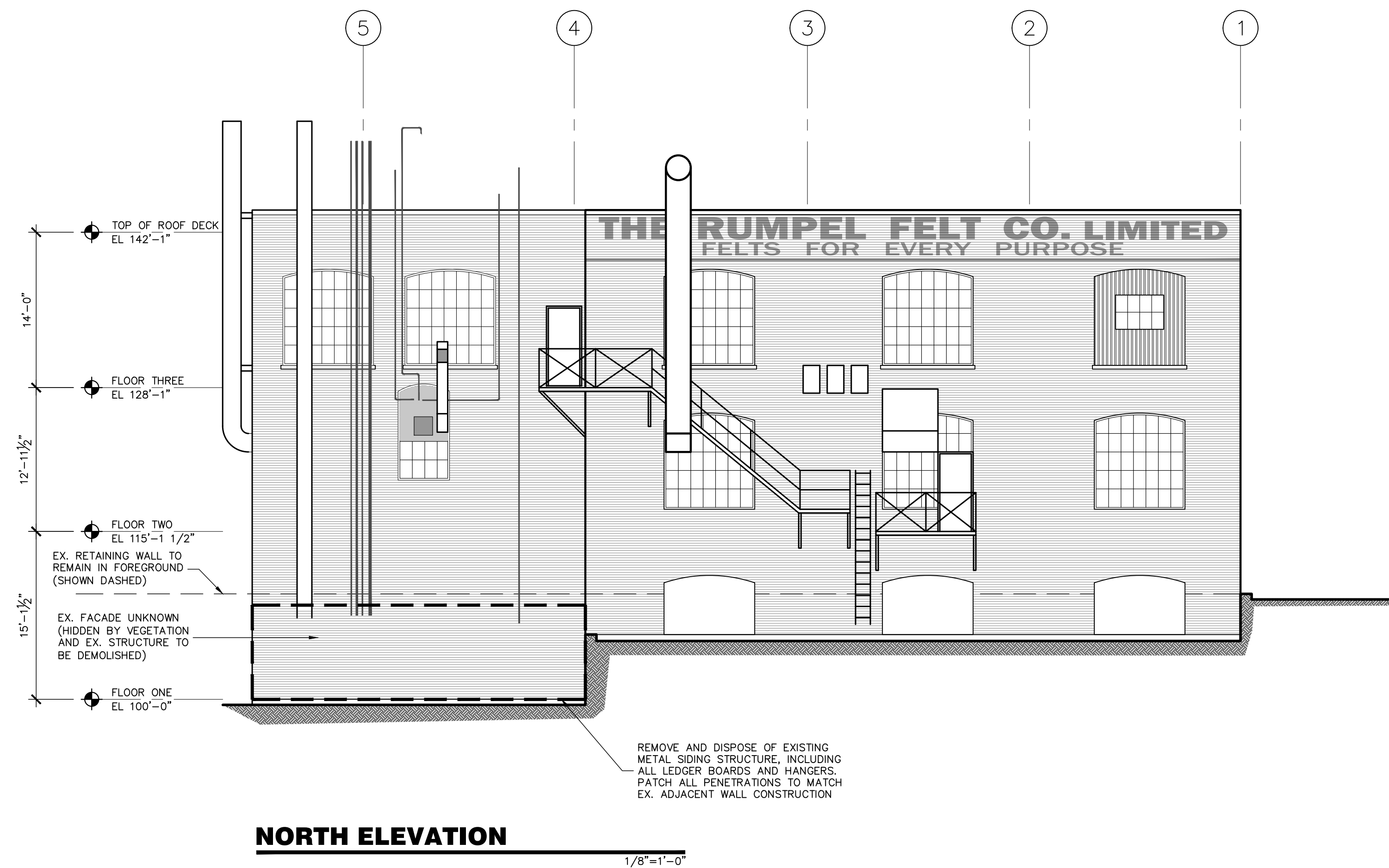
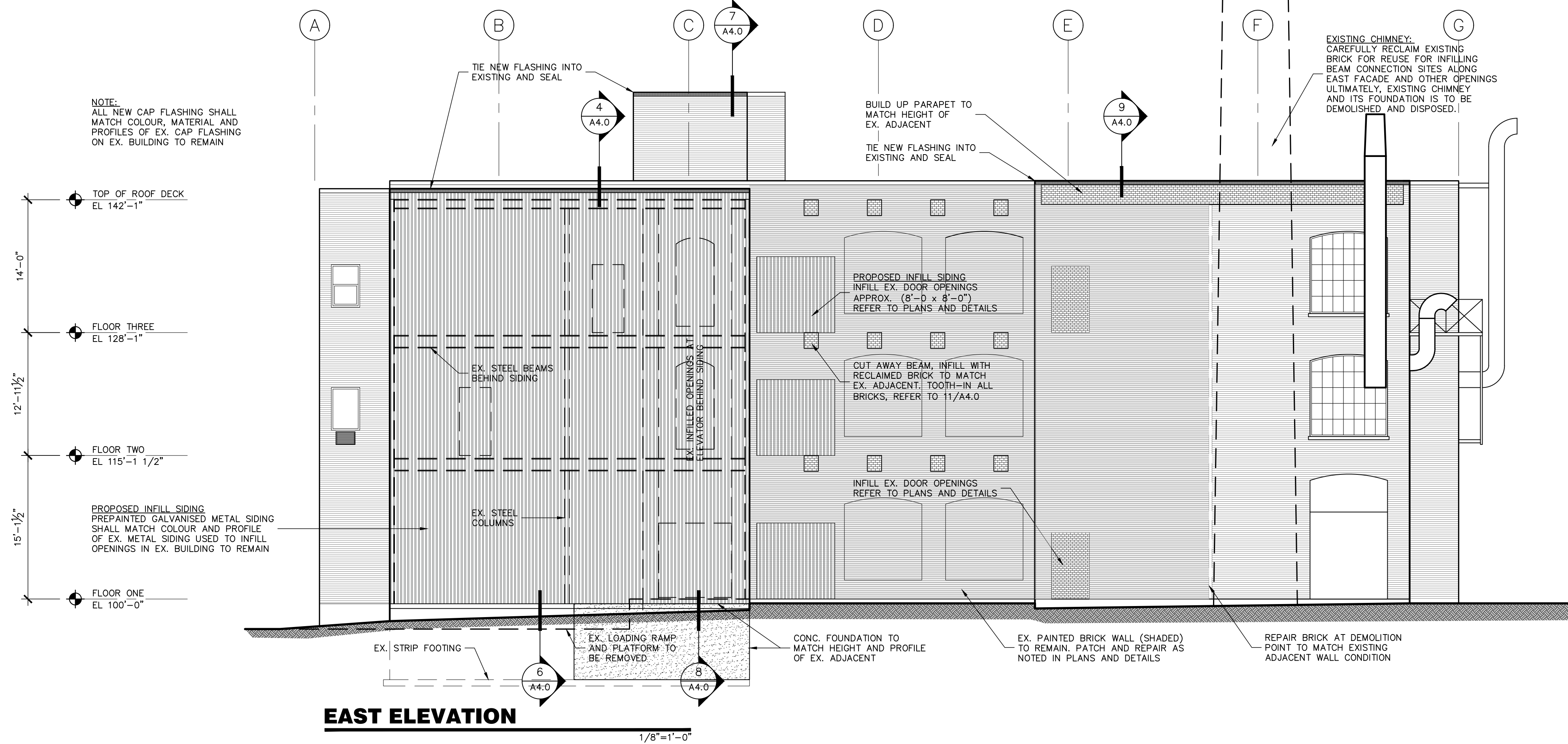
519-743-6500

CLIENT  
REGIONAL MUNICIPALITY  
OF WATERLOO

PROJECT  
RUMPEL FELT  
DEMOLITION  
KITCHENER, ONT.

DRAWING  
ELEVATIONS

Project Manager	PAS	Date	SEPTEMBER 2024
Design By	PAS	Project No.	33223-301
Drawn By	STD	Drawing No.	A3.1
Scale	1/8"=1'-0"		



NOTE TO CONTRACTOR :

DO NOT SCALE DRAWINGS.  
CONTRACTORS MUST CHECK AND VERIFY ALL DIMENSIONS  
AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE  
PROCEEDING WITH THE WORK.

THE OWNER/ARCHITECT/CONTRACTOR IS ADVISED THAT  
M.T.E. CONSULTANTS INC. CANNOT CERTIFY ANY COMPONENT  
OF THE SITE WORKS NOT INSPECTED DURING CONSTRUCTION.  
IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO  
NOTIFY M.T.E. CONSULTANTS INC. PRIOR TO COMMENCEMENT  
OF CONSTRUCTION TO ARRANGE FOR INSPECTION.

**ISSUED FOR  
HERITAGE REVIEW  
SECOND DRAFT  
APR 08, 2025**

HERITAGE REVIEW - SECOND DRAFT	4	APR 08/25
DRAFT REVIEW SET	3	MAR 04/25
DRAFT REVIEW SET	2	FEB 28/25
DRAFT REVIEW SET	1	NOV 08/24



Engineers, Scientists, Surveyors

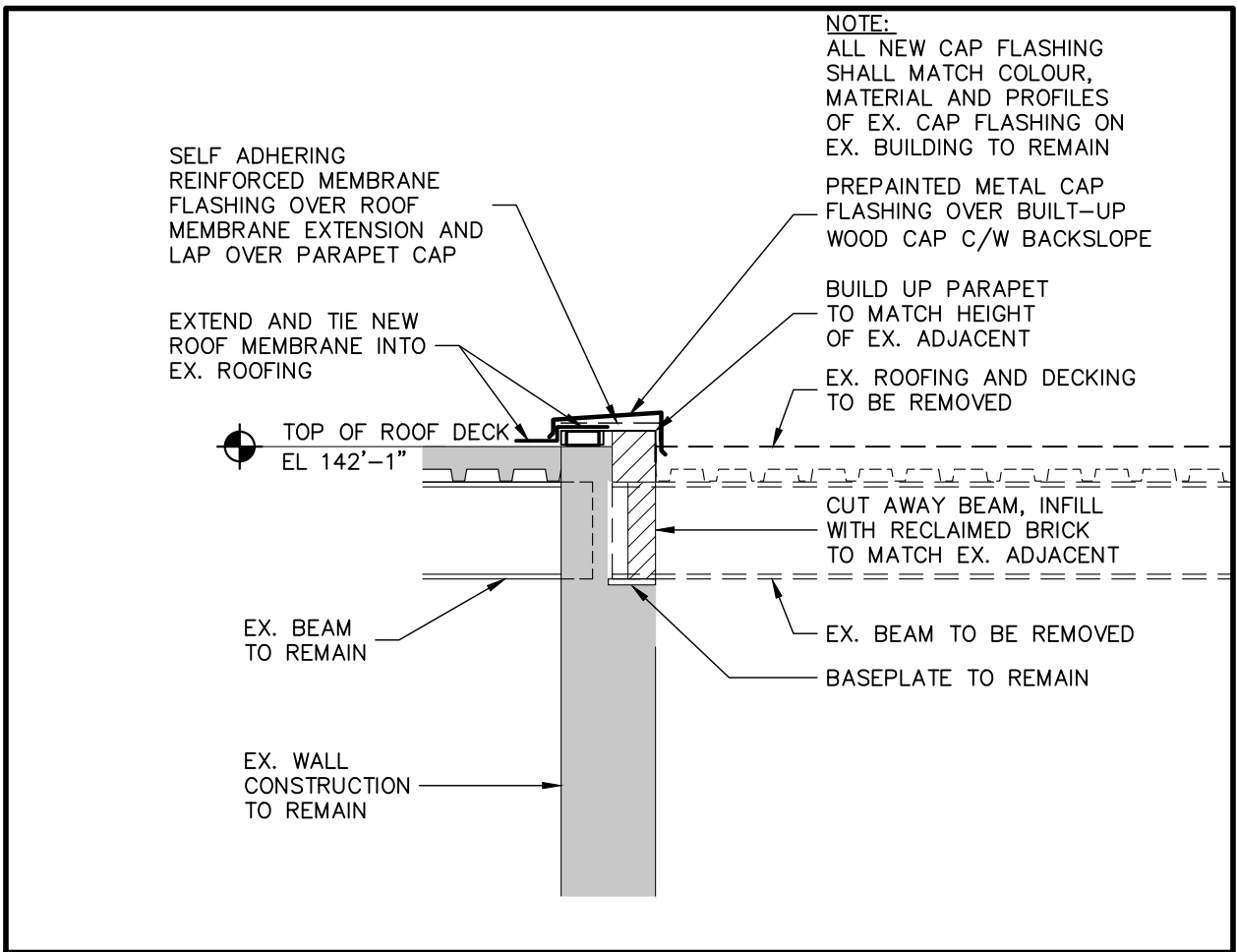
519-743-6500

CLIENT  
**REGIONAL MUNICIPALITY  
OF WATERLOO**

PROJECT  
**RUMPEL FELT  
DEMOLITION**  
KITCHENER, ONT.

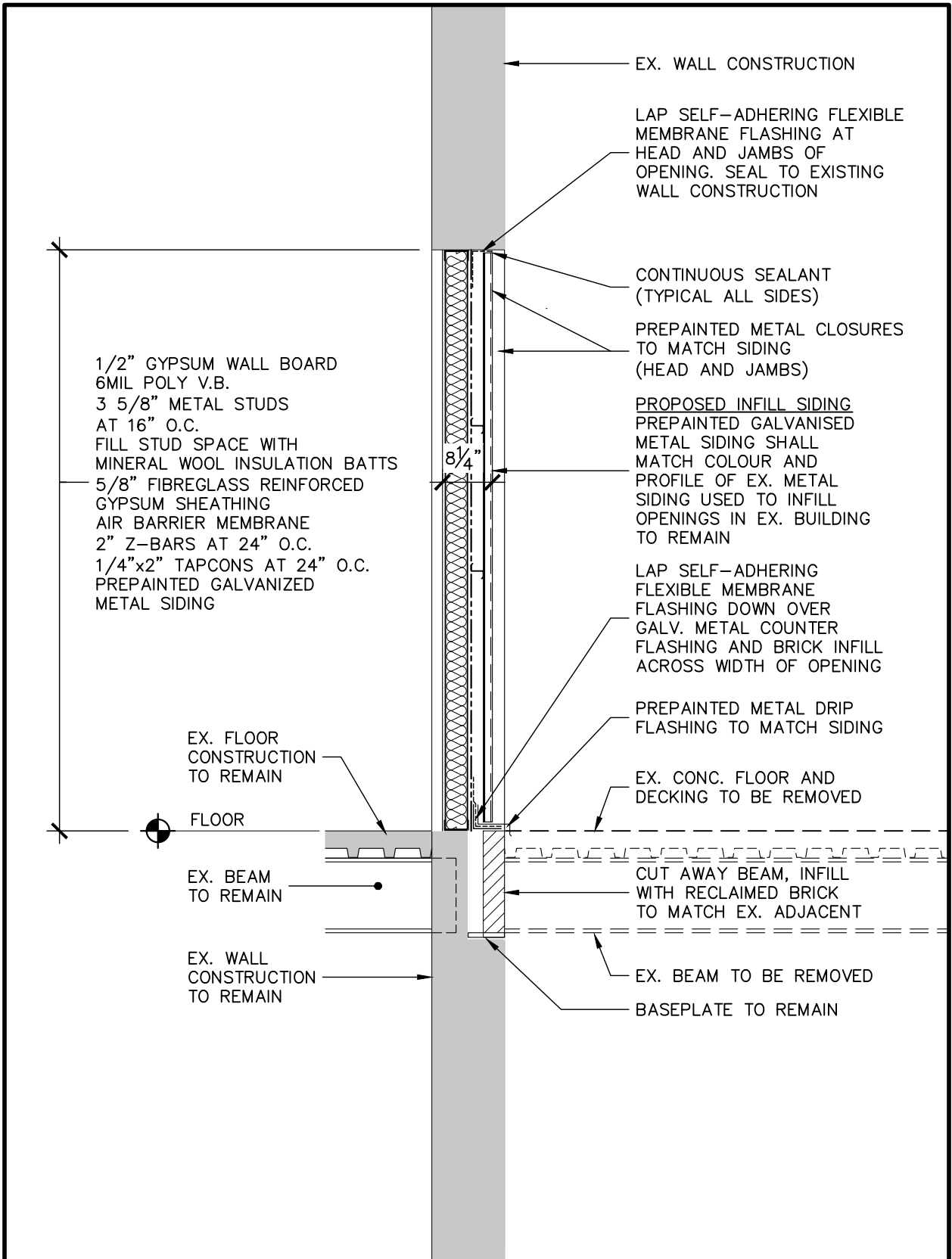
DRAWING  
**ELEVATIONS**

Project Manager	PAS	Date	SEPTEMBER 2024
Design By	PAS	Project No.	33223-301
Drawn By	STD	Drawing No.	<b>A3.2</b>
Scale	1/8"=1'-0"		



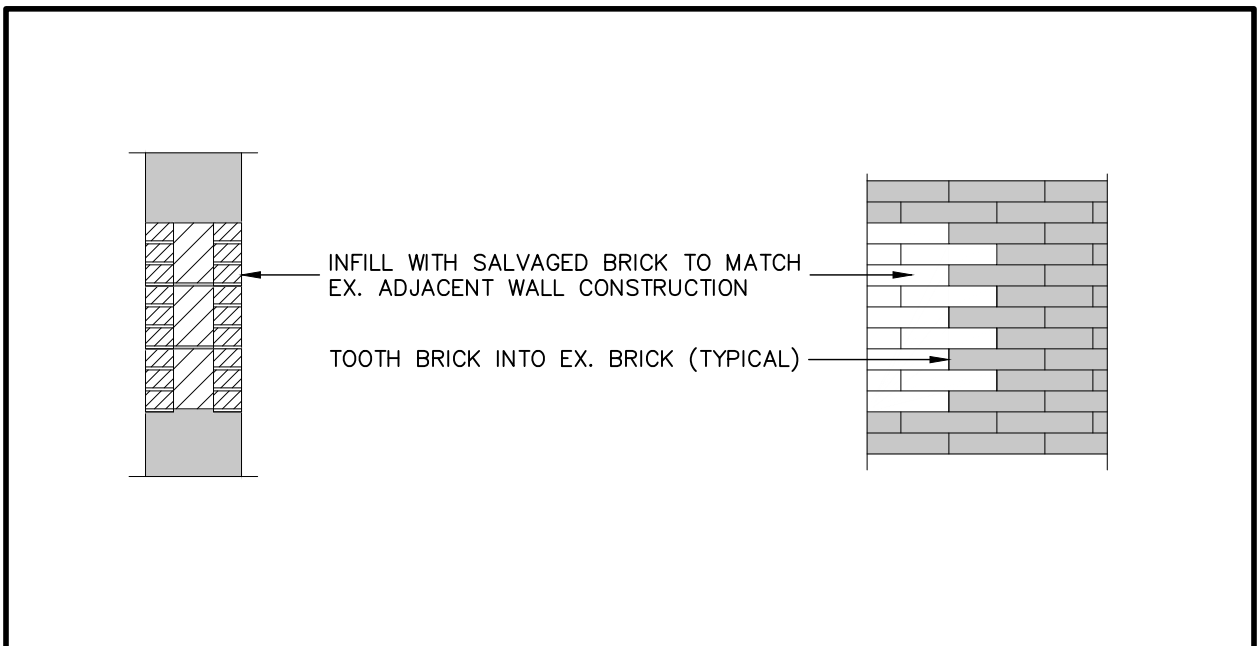
9  
A4.0  
DETAIL

1/2"=1'-0"



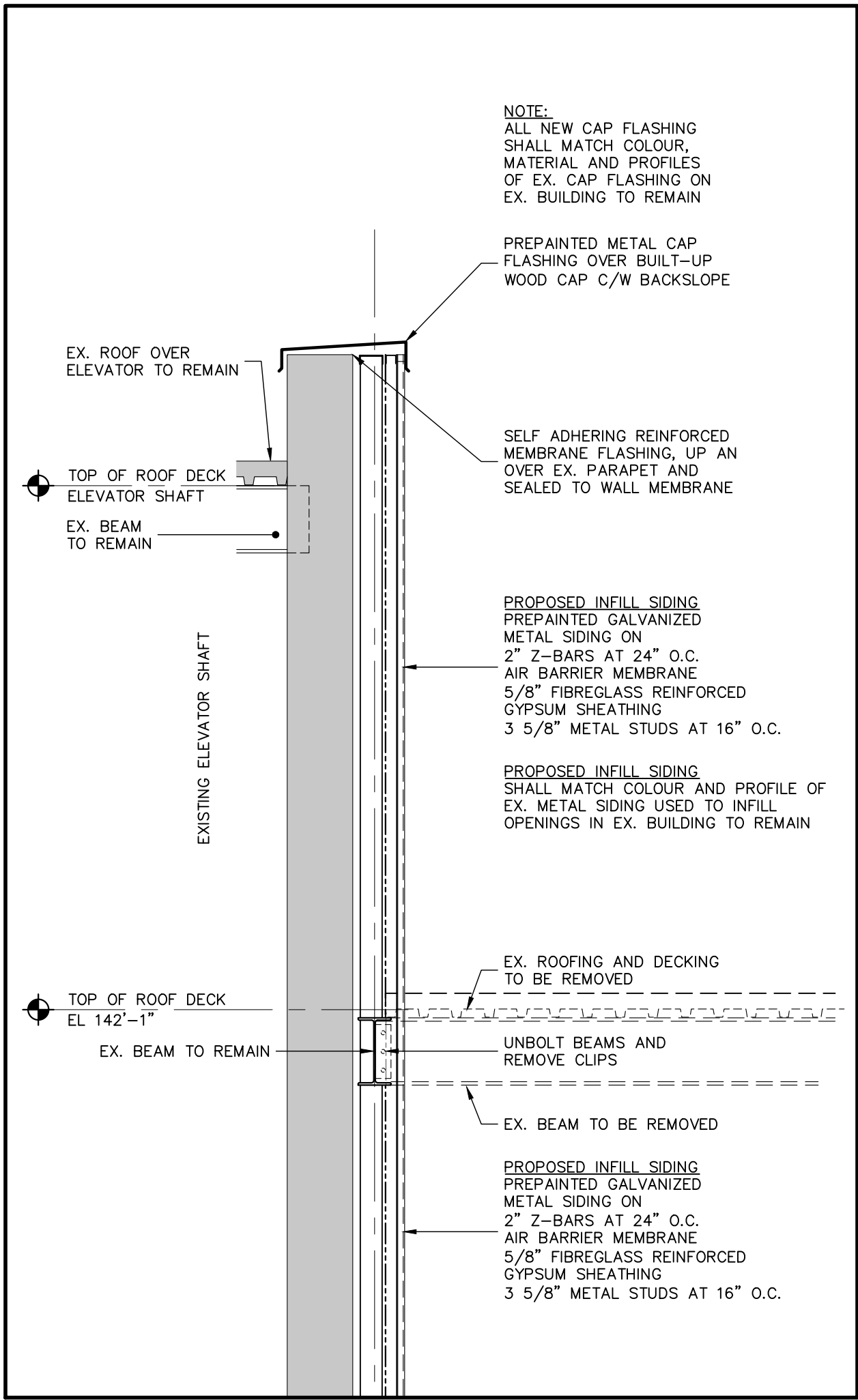
10  
A4.0  
DETAIL

1/2"=1'-0"



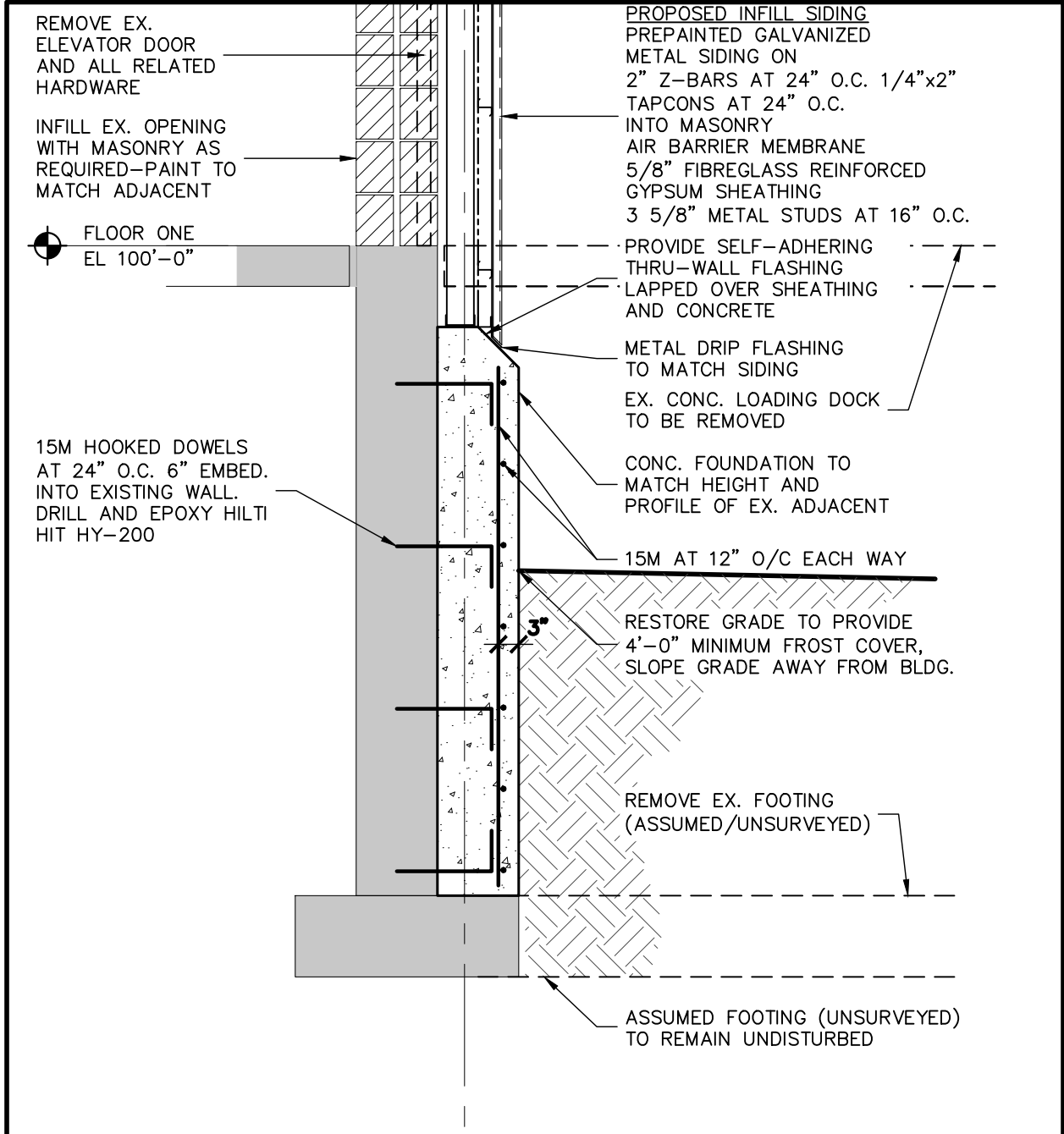
11  
A4.0  
DETAIL

1/2"=1'-0"



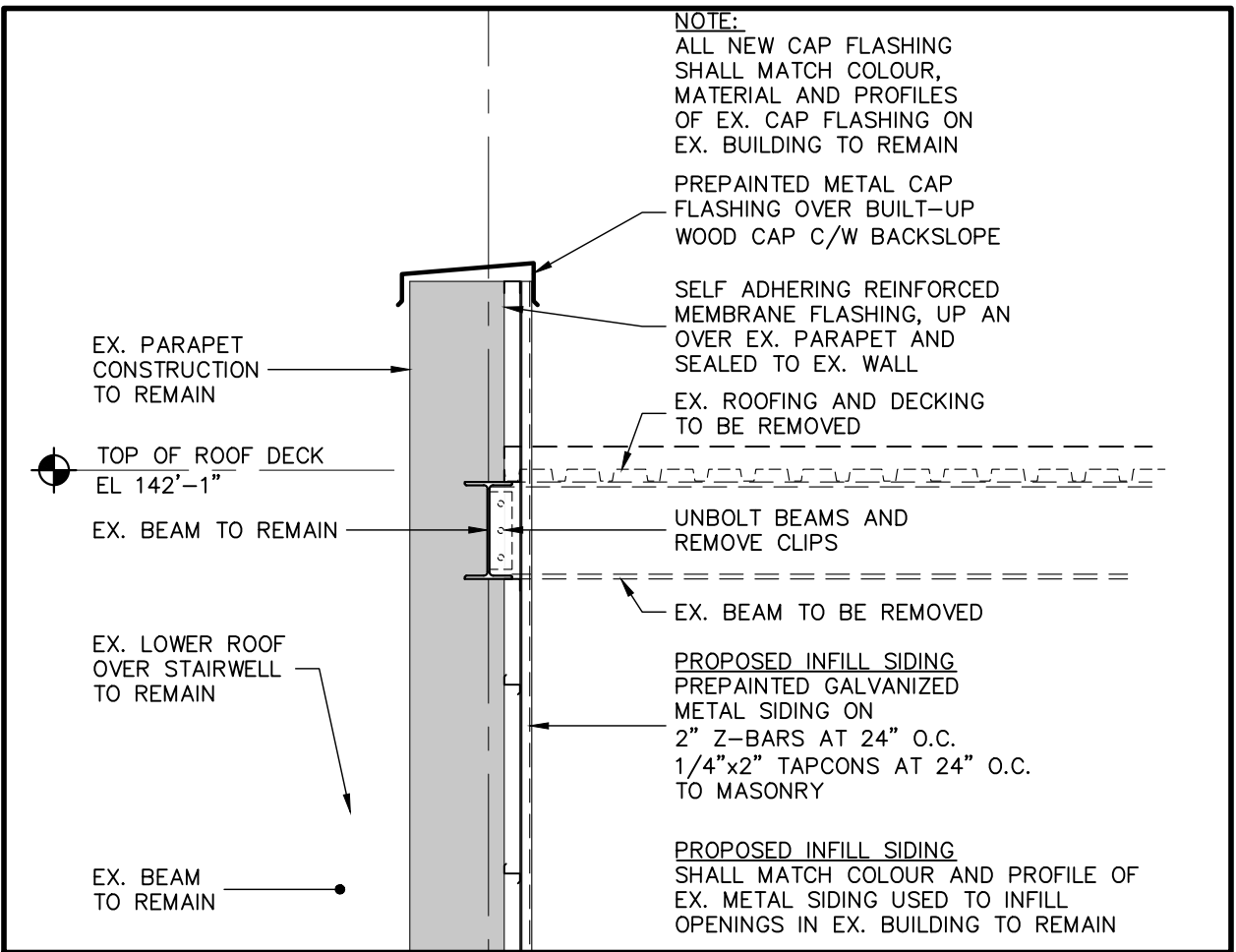
7  
A4.0  
DETAIL

1/2"=1'-0"



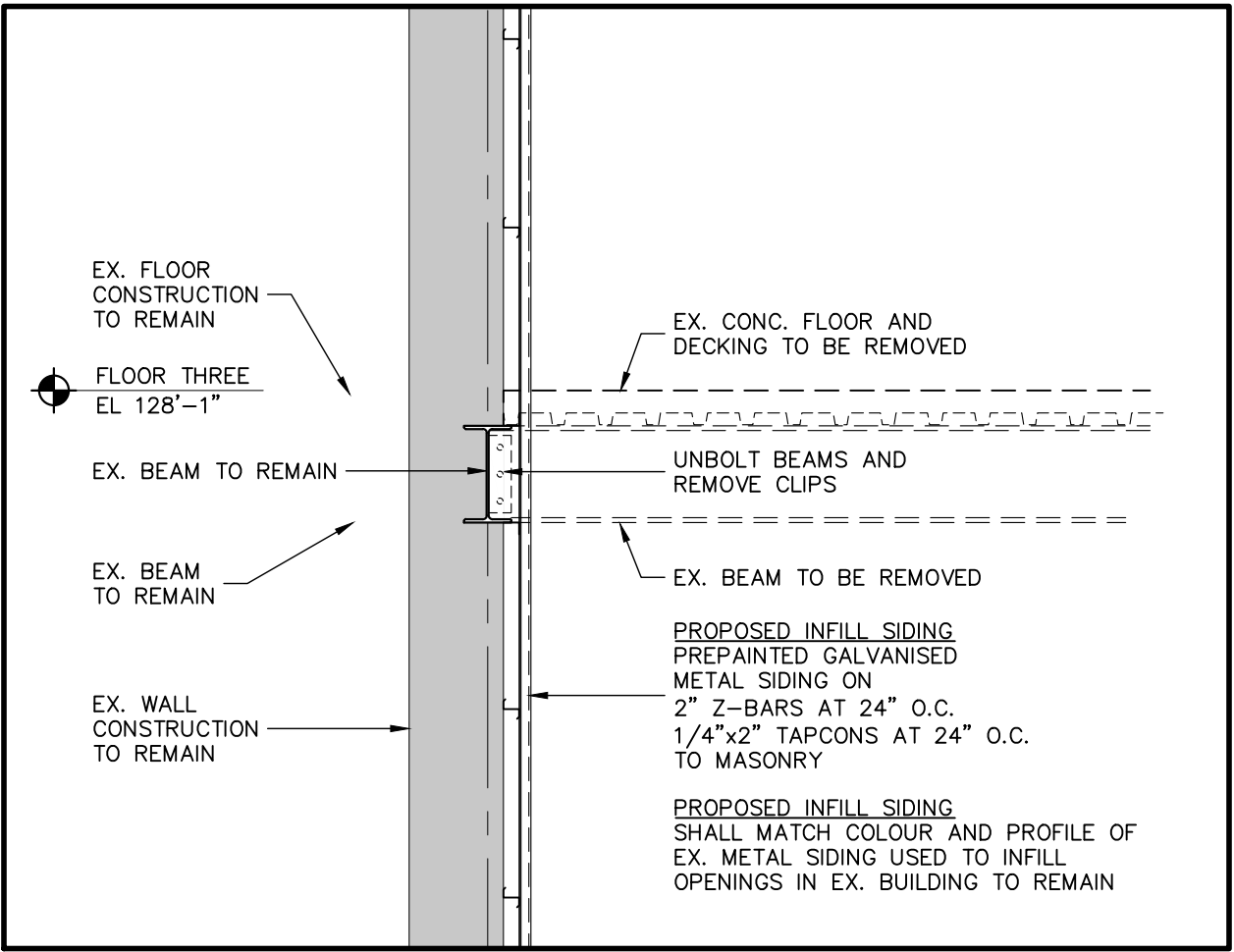
8  
A4.0  
DETAIL

1/2"=1'-0"



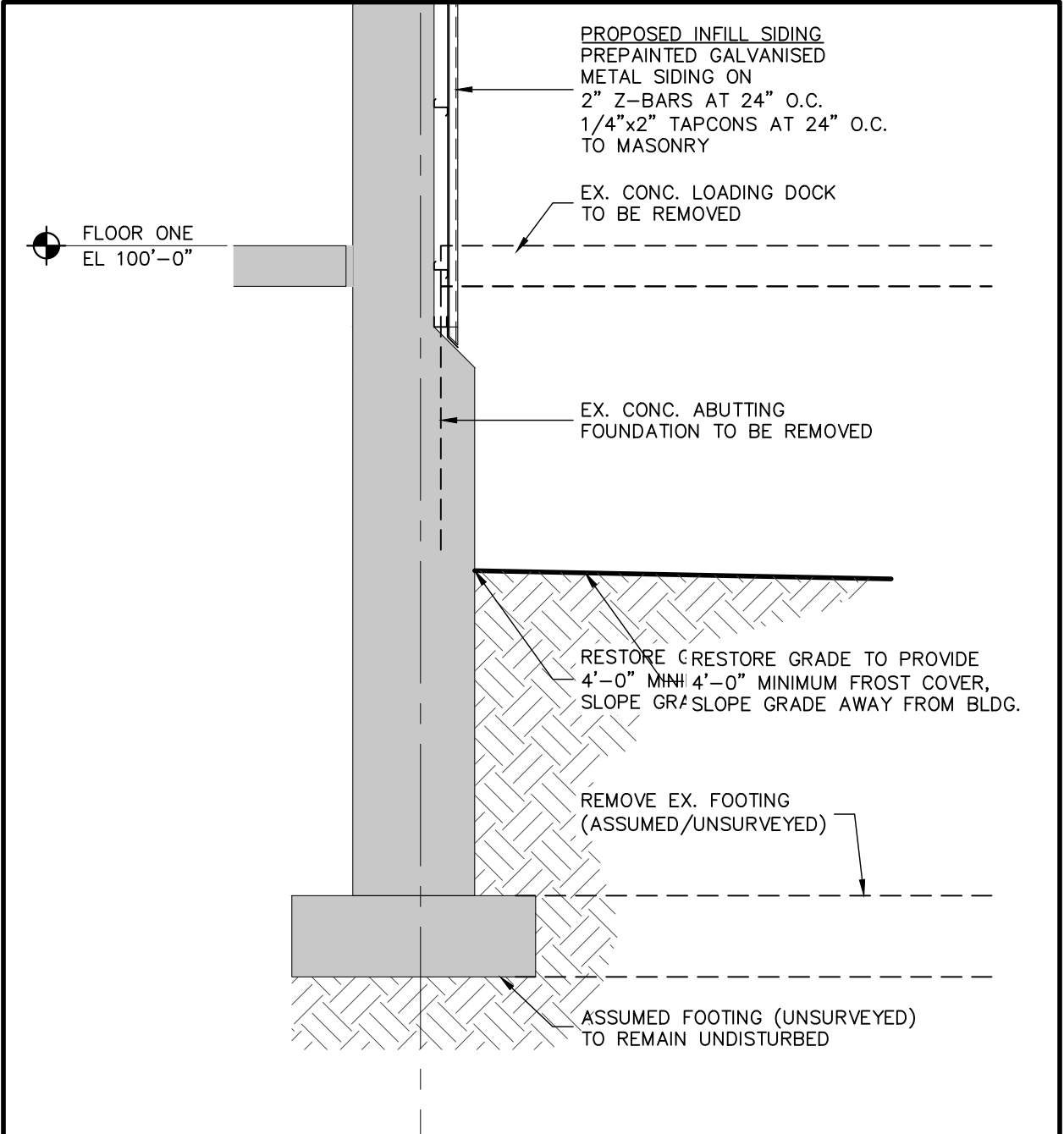
4  
A4.0  
DETAIL

1/2"=1'-0"



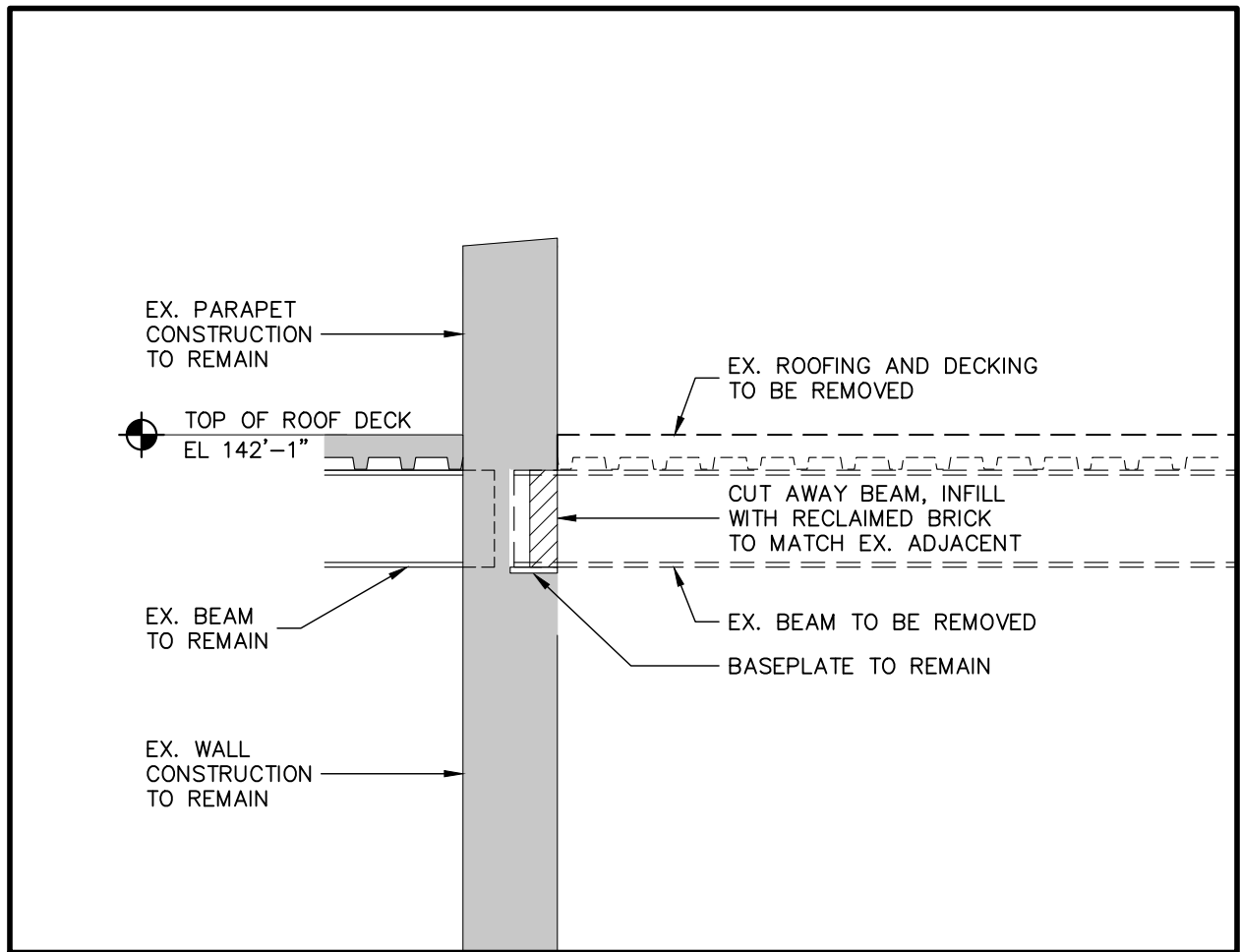
5  
A4.0  
DETAIL

1/2"=1'-0"



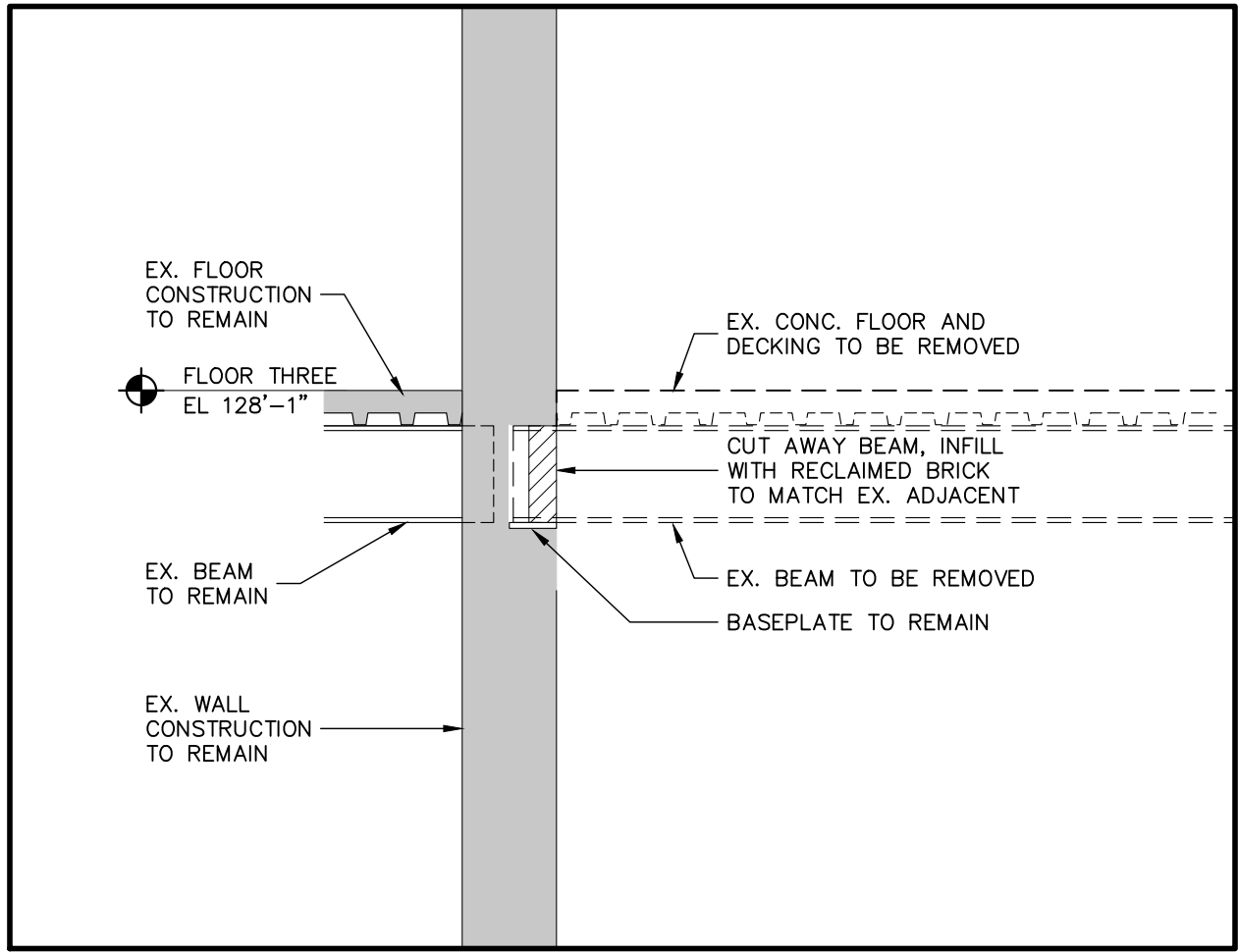
6  
A4.0  
DETAIL

1/2"=1'-0"



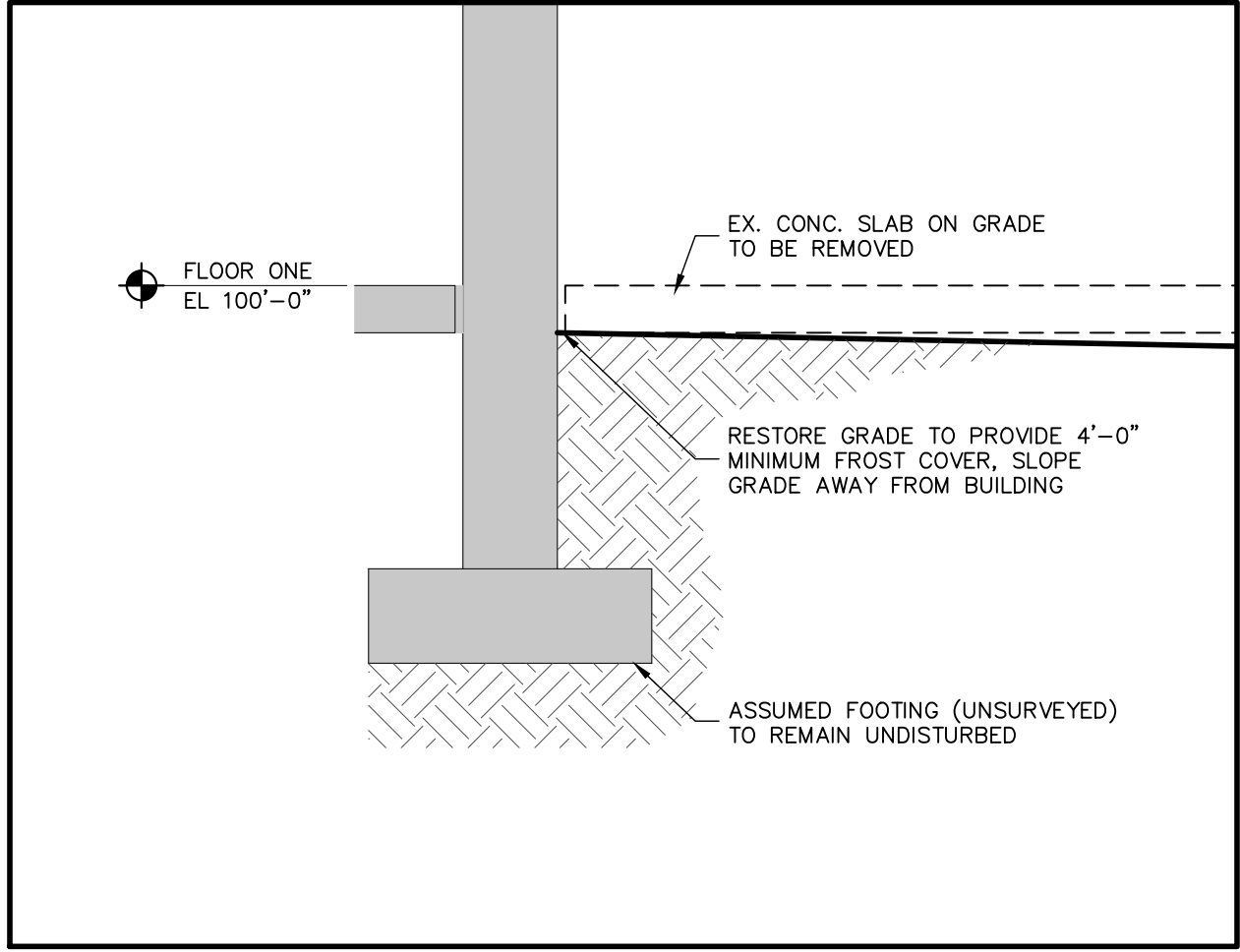
1  
A4.0  
DETAIL

1/2"=1'-0"



2  
A4.0  
DETAIL

1/2"=1'-0"



3  
A4.0  
DETAIL

1/2"=1'-0"

NOTE TO CONTRACTOR :

DO NOT SCALE DRAWINGS.  
CONTRACTORS MUST CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.  
ALL DRAWINGS REMAIN THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REPRODUCED OR REUSED WITHOUT THE ENGINEER'S WRITTEN PERMISSION.  
THE OWNER/ARCHITECT/CONTRACTOR IS ADVISED THAT M.T.E. CONSULTANTS INC. CANNOT CERTIFY ANY COMPONENT OF THE SITE WORKS NOT INSPECTED DURING CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO NOTIFY M.T.E. CONSULTANTS INC. PRIOR TO COMMENCEMENT OF CONSTRUCTION TO ARRANGE FOR INSPECTION.

ISSUED FOR  
HERITAGE REVIEW  
SECOND DRAFT  
APR 08, 2025

HERITAGE REVIEW - SECOND DRAFT	4	APR 08/25
DRAFT REVIEW SET	3	MAR 04/25
DRAFT REVIEW SET	2	FEB 28/25
DRAFT REVIEW SET	1	NOV 08/24



Engineers, Scientists, Surveyors

519-743-6500

CLIENT  
REGIONAL MUNICIPALITY  
OF WATERLOO

PROJECT  
RUMPEL FELT  
DEMOLITION  
KITCHENER, ONT.

DRAWING  
DEMOLITION / REMEDIATION  
DETAILS

Project Manager	PAS	Date	SEPTEMBER 2024
Design By	PAS	Project No.	33223-301
Drawn By	STD	Drawing No.	A4.0
Scale	AS NOTED		



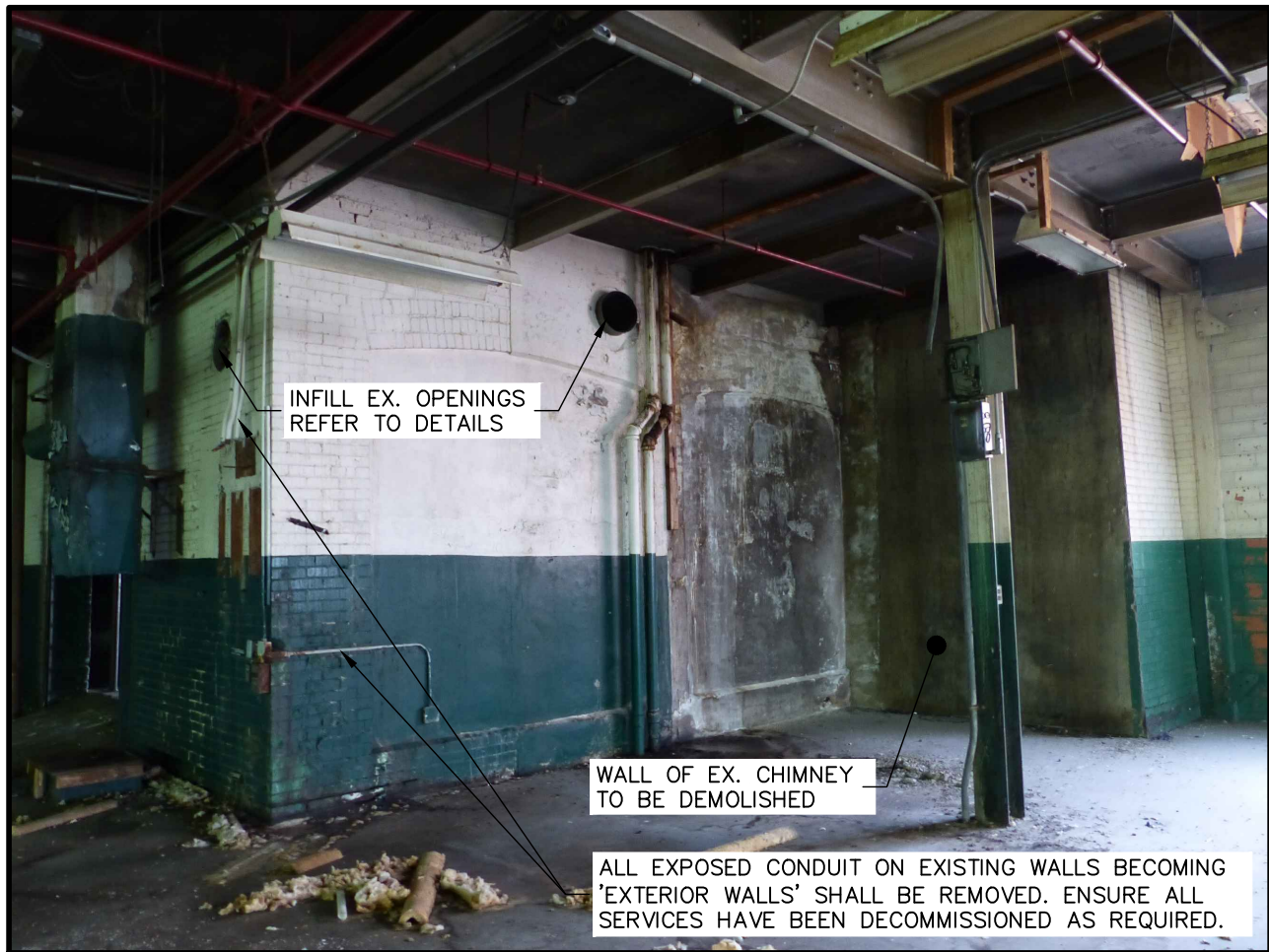
9 PHOTO  
A5.0 FLOOR THREE



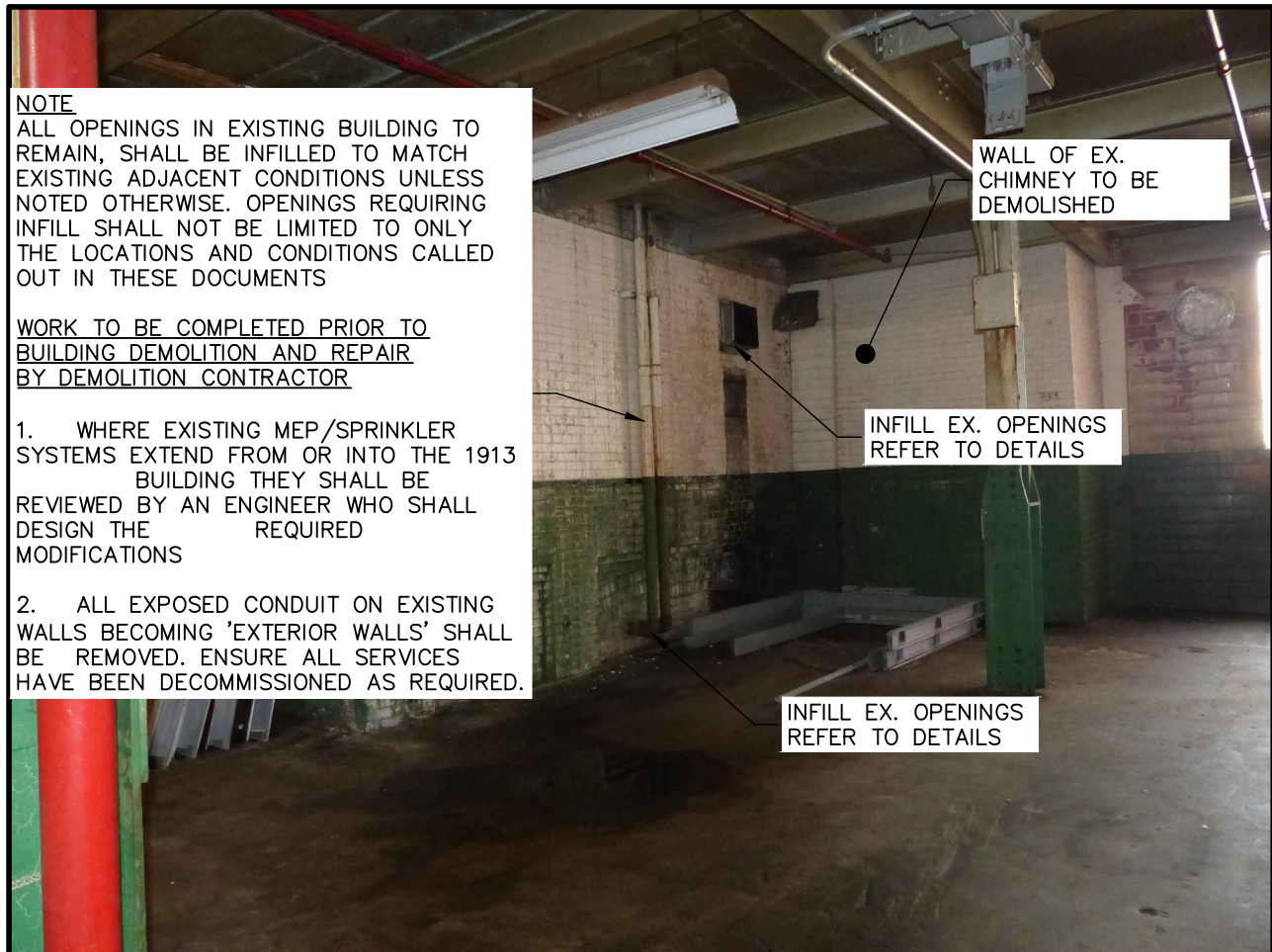
5 PHOTO  
A5.0 FLOOR TWO



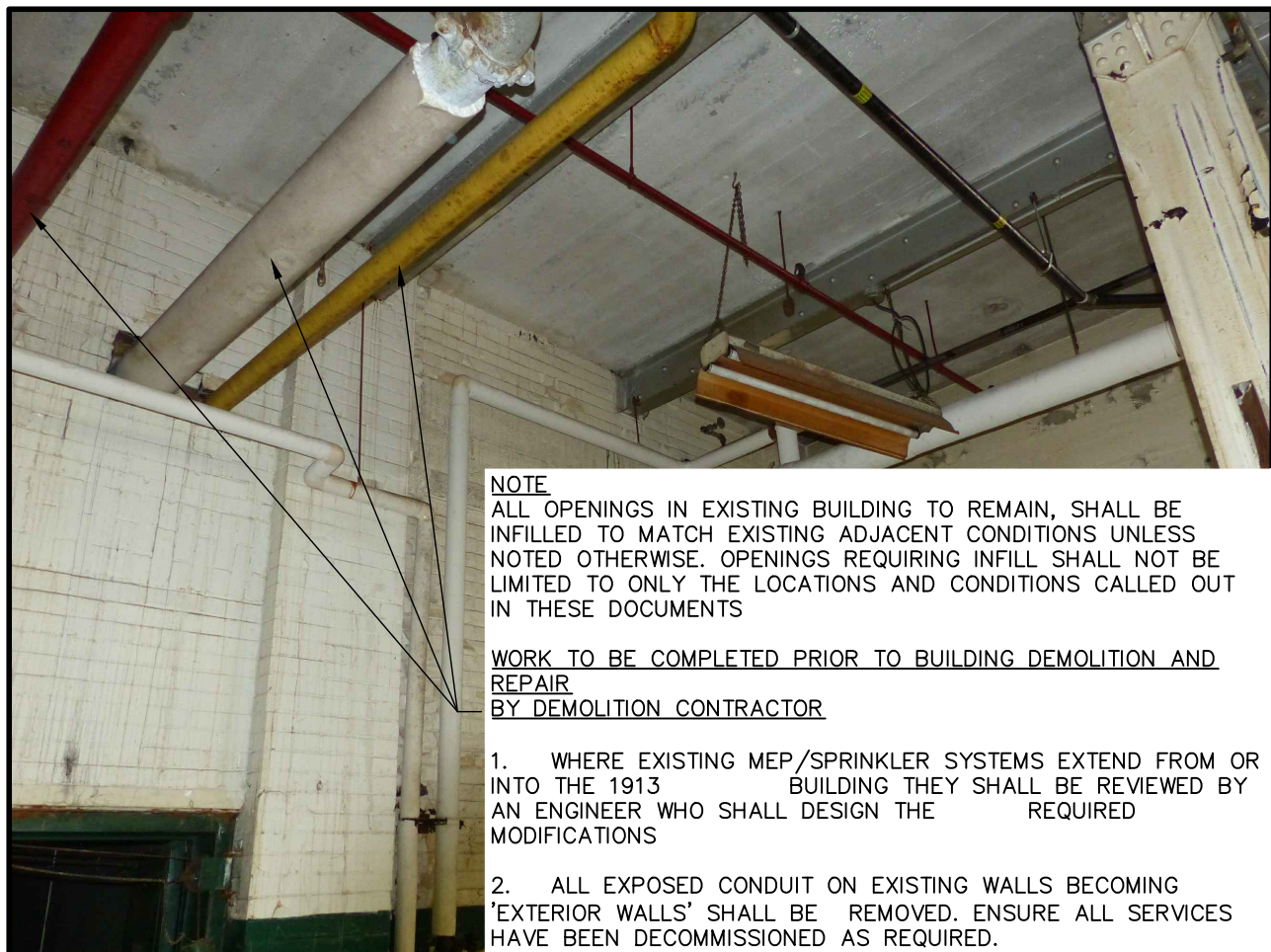
1 PHOTO  
A5.0 FLOOR ONE



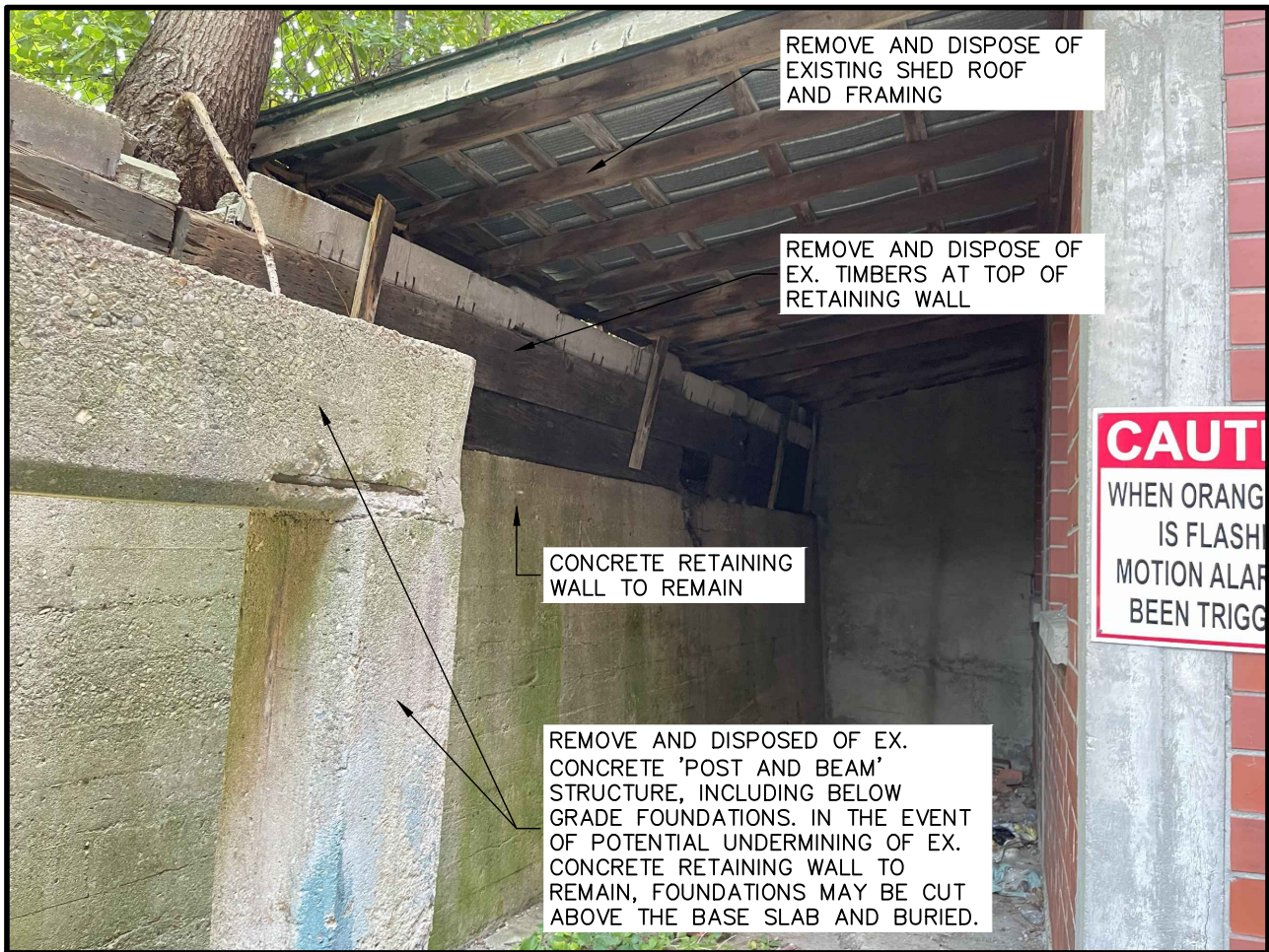
10 PHOTO  
A5.0 FLOOR THREE



6 PHOTO  
A5.0 FLOOR TWO



2 PHOTO  
A5.0 FLOOR ONE



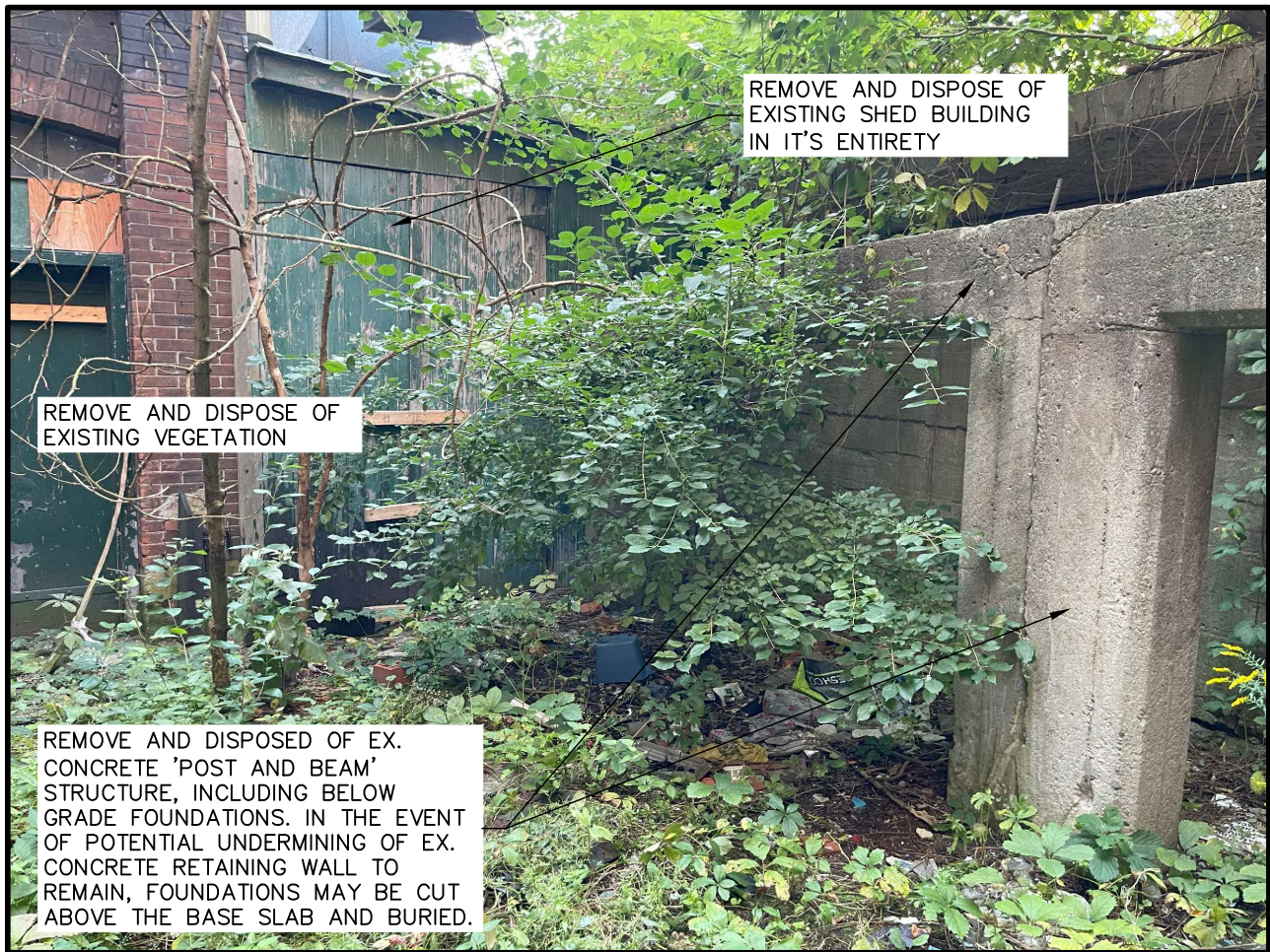
11 PHOTO  
A5.0 EXTERIOR



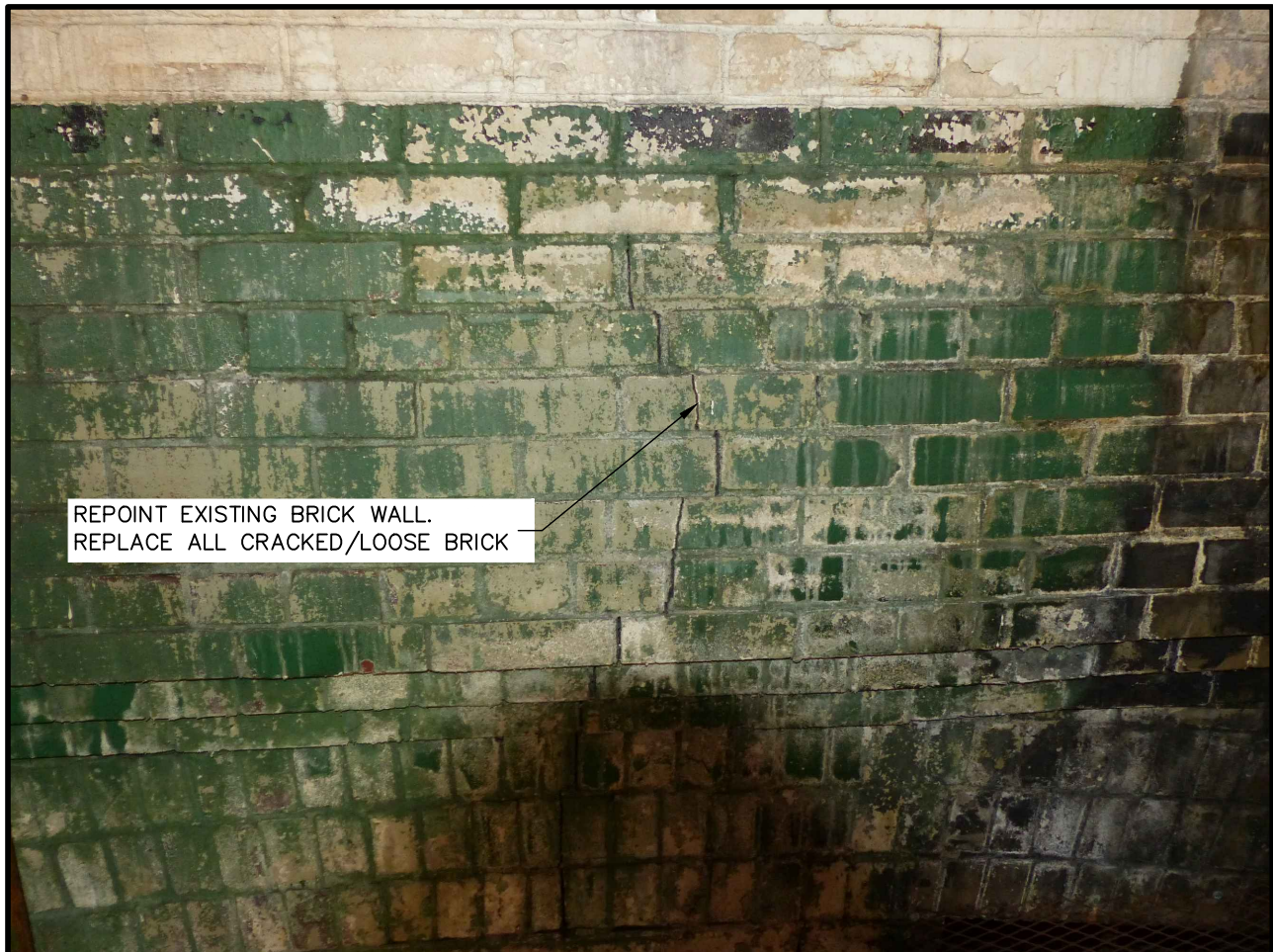
7 PHOTO  
A5.0 FLOOR TWO



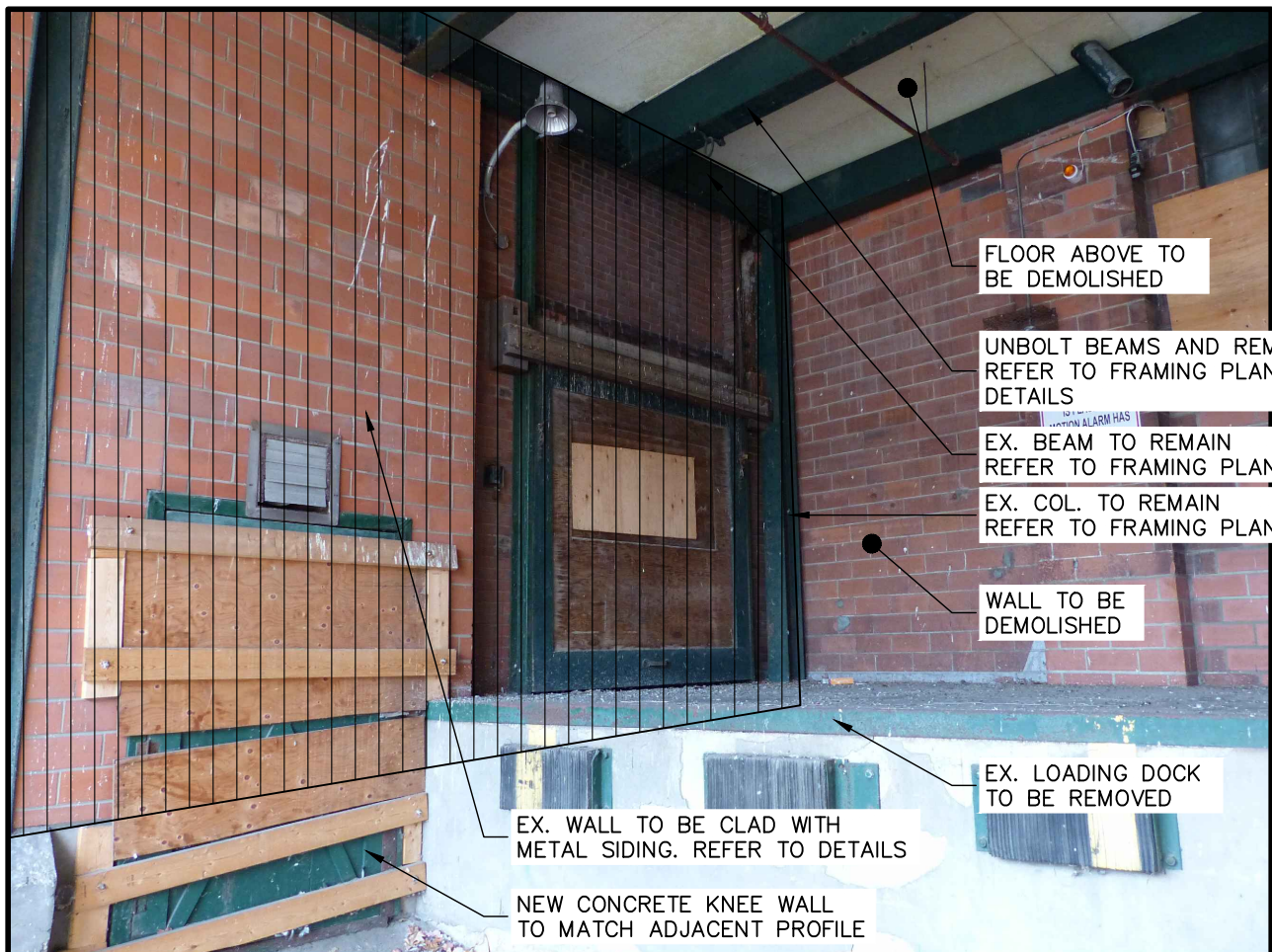
3 PHOTO  
A5.0 FLOOR ONE



12 PHOTO  
A5.0 EXTERIOR



8 PHOTO  
A5.0 FLOOR TWO



4 PHOTO  
A5.0 EX. LOADING DOCK

NOTE TO CONTRACTOR :  
DO NOT SCALE DRAWINGS.  
CONTRACTORS MUST CHECK AND VERIFY ALL DIMENSIONS  
AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE  
PROCEEDING WITH THE WORK.

THE OWNER/ARCHITECT/CONTRACTOR IS ADVISED THAT  
M.T.E. CONSULTANTS INC. CANNOT CERTIFY ANY COMPONENT  
OF THE SITE WORKS NOT INSPECTED DURING CONSTRUCTION.  
IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO  
NOTIFY M.T.E. CONSULTANTS INC. PRIOR TO COMMENCEMENT  
OF CONSTRUCTION TO ARRANGE FOR INSPECTION.

ISSUED FOR  
HERITAGE REVIEW  
SECOND DRAFT  
APR 08, 2025

HERITAGE REVIEW - SECOND DRAFT	4	APR 08/25
DRAFT REVIEW SET	3	MAR 04/25
DRAFT REVIEW SET	2	FEB 28/25
DRAFT REVIEW SET	1	NOV 08/24

**MTE**  
Engineers, Scientists, Surveyors  
519-743-6500

CLIENT  
REGIONAL MUNICIPALITY  
OF WATERLOO

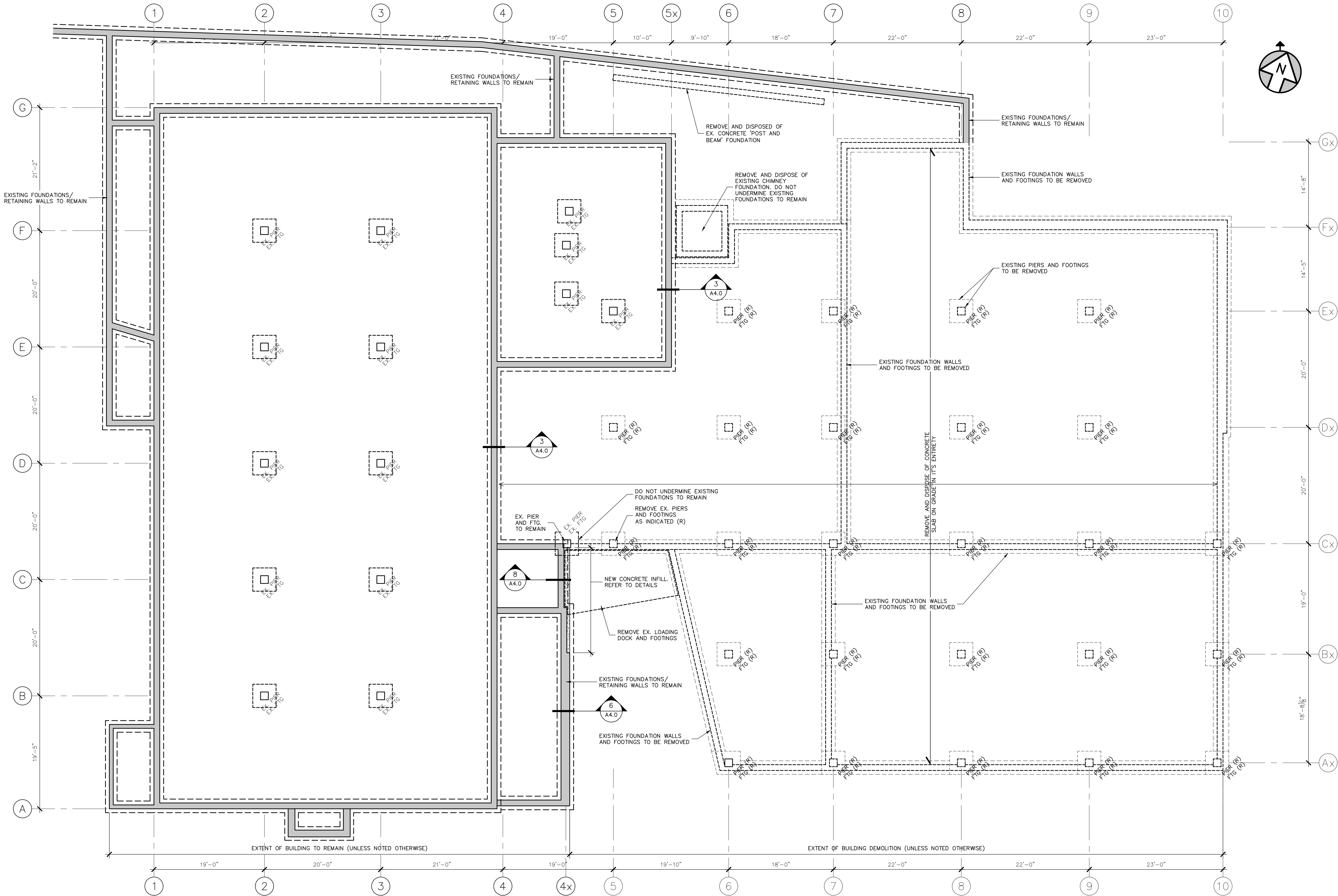
PROJECT  
RUMPEL FELT  
DEMOLITION  
KITCHENER, ONT.

DRAWING  
PHOTO DETAILS

Project Manager	PAS	Date	SEPTEMBER 2024
Design By	PAS	Project No.	33223-301
Drawn By	STD	Drawing No.	A5.0
Scale	AS NOTED		

MTE FILE NO.: 33223-301-S2.1  
###\33223\301\Structural\33223-301 PLANS.dwg

April 8, 2025 - 3:13 PM - Printed By: Steven Dietrich - 24x36 (Landscape)



FOUNDATION PLAN

1/8"=1'-0"

NOTE TO CONTRACTOR :

DO NOT SCALE DRAWINGS.  
CONTRACTORS MUST CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.

THE OWNER/ARCHITECT/CONTRACTOR IS ADVISED THAT M.T.E. CONSULTANTS INC. CANNOT CERTIFY ANY COMPONENT OF THE SITE WORKS NOT INSPECTED DURING CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO NOTIFY M.T.E. CONSULTANTS INC. PRIOR TO COMMENCEMENT OF CONSTRUCTION TO ARRANGE FOR INSPECTION.

ISSUED FOR  
HERITAGE REVIEW  
SECOND DRAFT  
APR 08, 2025

HERITAGE REVIEW - SECOND DRAFT	4	APR 08/25
DRAFT REVIEW SET	3	MAR 04/25
DRAFT REVIEW SET	2	FEB 28/25
DRAFT REVIEW SET	1	NOV 08/24



Engineers, Scientists, Surveyors

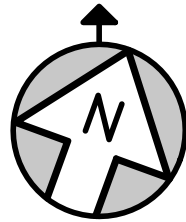
519-743-6500

CLIENT  
REGIONAL MUNICIPALITY  
OF WATERLOO

PROJECT  
RUMPEL FELT  
DEMOLITION  
KITCHENER, ONT.

DRAWING  
DEMOLITION / REMEDIATION  
FOUNDATION PLAN

Project Manager	PAS	Date	SEPTEMBER 2024
Design By	PAS	Project No.	33223-301
Drawn By	STD	Drawing No.	S2.1
Scale	1/8"=1'-0"		



**ISSUED FOR  
HERITAGE REVIEW  
SECOND DRAFT  
APR 08, 2025**



**MTE**  
Engineers, Scientists, Surveyors

519-743-6500

PROJECT

RUMPEL FELT  
DEMOLITION

KITCHENER, ONT.

DEMOLITION / REMEDIATION  
FLOOR TWO FRAMING PLAN

Project Manager	PAS	Date	SEPTEMBER 2024
Design By	PAS	Project No.	33223-301
Drawn By	STD	Drawing No.	<b>S2.2</b>
Scale	1/8"=1'-0"		



**ISSUED FOR  
HERITAGE REVIEW  
SECOND DRAFT  
APR 08, 2025**



**MTE**  
Engineers, Scientists, Surveyors

519-743-6500

CLIENT  
REGIONAL MUNICIPALITY  
OF WATERLOO

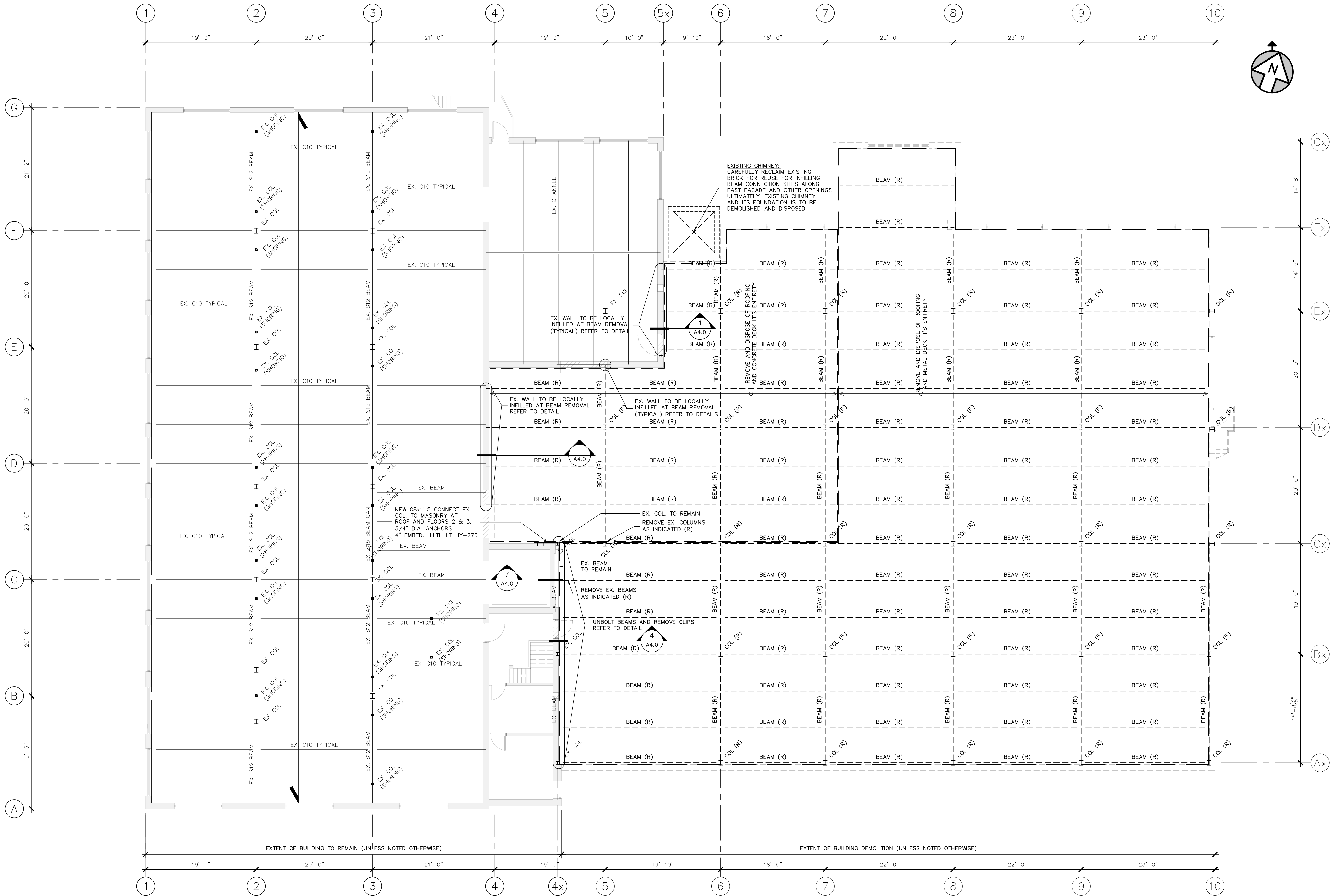
PROJECT

RUMPEL FELT  
DEMOLITION

KITCHENER, ONT.

DEMOLITION / REMEDIATION  
FLOOR THREE FRAMING PLAN

Project Manager	PAS	Date	SEPTEMBER 2024
Design By	PAS	Project No.	33223-301
Drawn By	STD	Drawing No.	<b>S2.3</b>
Scale	1/8"=1'-0"		



NOTE TO CONTRACTOR :  
DO NOT SCALE DRAWINGS.  
CONTRACTORS MUST CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.

THE OWNER/ARCHITECT/CONTRACTOR IS ADVISED THAT M.T.E. CONSULTANTS INC. CANNOT CERTIFY ANY COMPONENT OF THE SITE WORKS NOT INSPECTED DURING CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO NOTIFY M.T.E. CONSULTANTS INC. PRIOR TO COMMENCEMENT OF CONSTRUCTION TO ARRANGE FOR INSPECTION.

**ISSUED FOR  
HERITAGE REVIEW  
SECOND DRAFT  
APR 08, 2025**

HERITAGE REVIEW - SECOND DRAFT	4	APR 08/25
DRAFT REVIEW SET	3	MAR 04/25
DRAFT REVIEW SET	2	FEB 28/25
DRAFT REVIEW SET	1	NOV 08/24

**MTE**  
Engineers, Scientists, Surveyors  
519-743-6500

CLIENT  
REGIONAL MUNICIPALITY  
OF WATERLOO

PROJECT  
RUMPEL FELT  
DEMOLITION  
KITCHENER, ONT.

DRAWING  
DEMOLITION / REMEDIATION  
ROOF FRAMING PLAN

Project Manager	PAS	Date	SEPTEMBER 2024
Design By	PAS	Project No.	33223-301
Drawn By	STD	Drawing No.	<b>S2.4</b>
Scale	1/8"=1'-0"		



NOTE TO CONTRACTOR :  
DO NOT SCALE DRAWINGS.  
CONTRACTORS MUST CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.  
  
THE OWNER/ARCHITECT/CONTRACTOR IS ADVISED THAT M.T.E. CONSULTANTS INC. CANNOT CERTIFY ANY COMPONENT OF THE SITE WORKS NOT INSPECTED DURING CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO NOTIFY M.T.E. CONSULTANTS INC. PRIOR TO COMMENCEMENT OF CONSTRUCTION TO ARRANGE FOR INSPECTION.

- DEMOLITION SEQUENCE AND TEMPORARY SHORING/BRACING PLAN**
- CONTRACTOR'S ENGINEER TO DESIGN BUILDING BRACING TO SUPPORT THE PORTION OF BUILDING PROPOSED TO BE DEMOLISHED (I.E. THE 1942, 1962, 1968 ADDITIONS). DESIGNER TO CONSIDER ALL TEMPORARY CONDITIONS AS THE BUILDING IS PROGRESSIVELY DEMOLISHED GENERALLY FROM EAST TO WEST. BRACING SHOWN AND SEQUENCE IS ONE CONCEPT. CONTRACTOR IS TO PROVIDE ALL NECESSARY COUNTERWEIGHTS OR HELICAL PILES TO RESIST TENSION/COMPRESSION IF, OR AS, REQUIRED. PROVIDE P.E.N.G. SEALED DESIGN SHOP DRAWINGS OF BRACING AND DEMOLITION SEQUENCE FOR REVIEW AND APPROVAL BY MTE PRIOR TO INSTALLATION.
- SEQUENCE OF DEMOLITION IS PROPOSED AS FOLLOWS:
1. INSTALL TEMPORARY BUILDING BRACES AS SHOWN ON LEVELS 1, 2 AND 3 TO ROOF, COMPLETE WITH COUNTERWEIGHTS OR HELICALS AS REQUIRED. INSTALL PROTECTION HOARDING OF ENTRANCES AS INDICATED IN THE HIA REPORT.
  2. INSTALL VERTICAL SHORING OF FLOOR FRAMING AND SLAB OF LEVELS 2, 3 AND ROOF.
  3. DEMOLISH BUILDING BAY FROM LINES 10 TO 9.
  4. DEMOLISH BUILDING BAY FROM LINES 9 TO 8.
  5. REMOVE BUILDING BRACE ON LINE 8 AND DEMOLISH BUILDING BAY FROM LINES 8 TO 7.
  6. DEMOLISH BUILDING AREA BX6-AX7 AND FX6-EX7, WHILE MAINTAINING THE STRUCTURE IN THE SHADED AREA AND THREE BRACES ALL THREE LEVELS. CAREFULLY DISASSEMBLE BRICK FROM CHIMNEY AND RECLAIM SUFFICIENT BRICK FOR REPAIRS ON 1913 EAST WALL.
  7. CUT AND REMOVE PORTION OF BEAMS THAT FRAME INTO 1913 BUILDING EAST WALL, AS WELL AS CUTTING AND REMOVING PORTION OF FLOOR SLABS AND ROOF.
  8. REMOVE AND DISPOSED OF EX. CONCRETE 'POST AND BEAM' STRUCTURE, INCLUDING BELOW GRADE FOUNDATIONS, IN THE EVENT OF POTENTIAL UNDERMINING OF EX. CONCRETE RETAINING WALL TO REMAIN. FOUNDATIONS MAY BE CUT ABOVE THE BASE SLAB AND BURIED.
  9. DEMOLISH AND REMOVE PORTION OF BUILDING BETWEEN 1913 BUILDING AND THE SHADED BRACED PORTION.

**ISSUED FOR HERITAGE REVIEW SECOND DRAFT APR 08, 2025**

HERITAGE REVIEW - SECOND DRAFT	4	APR 08/25
DRAFT REVIEW SET	3	MAR 04/25
DRAFT REVIEW SET	2	FEB 28/25
DRAFT REVIEW SET	1	NOV 08/24



Engineers, Scientists, Surveyors

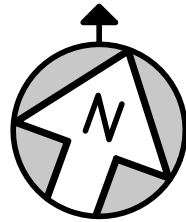
519-743-6500

CLIENT  
REGIONAL MUNICIPALITY OF WATERLOO

PROJECT  
RUMPEL FELT DEMOLITION  
KITCHENER, ONT.

DRAWING  
DEMOLITION and STABILIZATION FLOOR TWO FRAMING PLAN

Project Manager	PAS	Date	SEPTEMBER 2024
Design By	PAS	Project No.	33223-301
Drawn By	STD	Drawing No.	S3.1
Scale	1/8"=1'-0"		



NOTE TO CONTRACTOR :

DO NOT SCALE DRAWINGS.

CONTRACTORS MUST CHECK AND VERIFY ALL DIMENSIONS  
AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE  
PROCEEDING WITH THE WORK.

THE OWNER/ARCHITECT/CONTRACTOR IS ADVISED THAT  
M.T.E. CONSULTANTS INC. CANNOT CERTIFY ANY COMPONENT  
OF THE SITE WORKS NOT INSPECTED DURING CONSTRUCTION.  
IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO  
NOTIFY M.T.E. CONSULTANTS INC. PRIOR TO COMMENCEMENT  
OF CONSTRUCTION TO ARRANGE FOR INSPECTION.

CONTRACTOR'S ENGINEER TO DESIGN BUILDING BRACING TO SUPPORT THE PORTION OF BUILDING PROPOSED TO BE DEMOLISHED (I.E. THE 1942, 1962, 1968 ADDITIONS). DESIGNER TO CONSIDER ALL TEMPORARY CONDITIONS AS THE BUILDING IS PROGRESSIVELY DEMOLISHED GENERALLY FROM EAST TO WEST. BRACING SHOWN AND SEQUENCE IS ONE CONCEPT. CONTRACTOR IS TO PROVIDE ALL NECESSARY COUNTERWEIGHTS OR HELICAL PILES TO RESIST TENSION/COMPRESSION IF, OR AS, REQUIRED. PROVIDE P.ENG. SEALED DESIGN SHOP DRAWINGS OF BRACING AND DEMOLITION SEQUENCE FOR REVIEW AND APPROVAL BY MTE PRIOR TO INSTALLATION.

- SEQUENCE OF DEMOLITION IS PROPOSED AS FOLLOWS:
  1. INSTALL TEMPORARY BUILDING BRACES AS SHOWN ON LEVELS 1, 2 AND 3 TO ROOF, COMPLETE WITH COUNTERWEIGHTS OR HELICALS AS REQUIRED. INSTALL PROTECTION HOARDING OF ENTRANCES AS INDICATED IN THE IHA REPORT.
  2. INSTALL VERTICAL SHORING OF FLOOR FRAMING AND SLAB OF LEVELS 2, 3 AND ROOF.
  3. DEMOLISH BUILDING BAY FROM LINES 10 TO 9.
  4. DEMOLISH BUILDING BAY FROM LINES 9 TO 8.
  5. REMOVE BUILDING BRACE ON LINE 8 AND DEMOLISH BUILDING BAY FROM LINES 8 TO 7.
  6. DEMOLISH BUILDING AREA B6X-A7X AND F6X-E7X, WHILE MAINTAINING THE STRUCTURE IN THE SHADED AREA AND THREE BRACES ALL THREE LEVELS, CAREFULLY DISASSEMBLE BRICK FROM CHIMNEY AND RECLAIM BRICK FOR BRICK FOR REUSE ON 1912 EAST WALL.
  7. CUT AND REMOVE PORTION OF BEAMS THAT FRAME INTO 1913 BUILDING EAST WALL, AS WELL AS CUTTING AND REMOVING PORTION OF FLOOR SLABS AND ROOF.
  8. REMOVE AND DISPOSED OF EX. CONCRETE "POST AND BEAM" STRUCTURE, INCLUDING BELOW GRADE FOUNDATIONS. IN THE EVENT OF POTENTIAL UNDERMINING OF EX. CONCRETE RETAINING WALL TO REMAIN, FOUNDATIONS MAY BE CUT ABOVE THE BASE SLAB AND BURIED.
  9. DEMOLISH AND REMOVE PORTION OF BUILDING BETWEEN 1913 BUILDING AND THE SHADED BRACED PORTION.

**ISSUED FOR  
HERITAGE REVIEW  
SECOND DRAFT  
APR 08, 2025**

HERITAGE REVIEW -- SECOND DRAFT	4	APR 08/25
DRAFT REVIEW SET	3	MAR 04/25
DRAFT REVIEW SET	2	FEB 28/25
DRAFT REVIEW SET	1	NOV 08/24



Engineers, Scientists, Surveyors

519-743-6500

CLIENT  
REGIONAL MUNICIPALITY  
OF WATERLOO

PROJECT

RUMPEL FELT  
DEMOLITION

KITCHENER, ONT.

# DEMOLITION and STABILIZATION FLOOR THREE FRAMING PLAN

Project Manager PAS	Date SEPTEMBER 2024
Design By PAS	Project No. 33223-301
Drawn By STD	Drawing No. <b>S3.2</b>
Scale 1/8"=1'-0"	



NOTE TO CONTRACTOR :  
DO NOT SCALE DRAWINGS.  
CONTRACTORS MUST CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.

DEMOLITION SEQUENCE AND TEMPORARY SHORING/BRACING PLAN

CONTRACTOR'S ENGINEER TO DESIGN BUILDING BRACING TO SUPPORT THE PORTION OF BUILDING PROPOSED TO BE DEMOLISHED (I.E. THE 1942, 1962, 1968 ADDITIONS). DESIGNER TO CONSIDER ALL TEMPORARY CONDITIONS AS THE BUILDING IS PROGRESSIVELY DEMOLISHED GENERALLY FROM EAST TO WEST. BRACING SHOWN AND SEQUENCE IS ONE CONCEPT. CONTRACTOR IS TO PROVIDE ALL NECESSARY COUNTERWEIGHTS OR HELICAL PILES TO RESIST TENSION/COMPRESSION IF, OR AS, REQUIRED. PROVIDE P.E.N.G. SEALED DESIGN SHOP DRAWINGS OF BRACING AND DEMOLITION SEQUENCE FOR REVIEW AND APPROVAL BY MTE PRIOR TO INSTALLATION.

- SEQUENCE OF DEMOLITION IS PROPOSED AS FOLLOWS:
1. INSTALL TEMPORARY BUILDING BRACES AS SHOWN ON LEVELS 1, 2 AND 3 TO ROOF, COMPLETE WITH COUNTERWEIGHTS OR HELICALS AS REQUIRED. INSTALL PROTECTION HOARDING OF ENTRANCES AS INDICATED IN THE HIA REPORT.
  2. INSTALL VERTICAL SHORING OF FLOOR FRAMING AND SLAB OF LEVELS 2, 3 AND ROOF.
  3. DEMOLISH BUILDING BAY FROM LINES 10 TO 9.
  4. DEMOLISH BUILDING BAY FROM LINES 9 TO 8.
  5. REMOVE BUILDING BRACE ON LINE 8 AND DEMOLISH BUILDING BAY FROM LINES 8 TO 7.
  6. DEMOLISH BUILDING AREA Bx6-Ax7 AND Fx6-Ex7, WHILE MAINTAINING THE STRUCTURE IN THE SHADED AREA AND THREE BRACES ALL THREE LEVELS. CAREFULLY DISASSEMBLE BRICK FROM CHIMNEY AND RECLAIM SUFFICIENT BRICK FOR REPAIRS ON 1913 EAST WALL.
  7. CUT AND REMOVE PORTION OF BEAMS THAT FRAME INTO 1913 BUILDING EAST WALL, AS WELL AS CUTTING AND REMOVING PORTION OF FLOOR SLABS AND ROOF.
  8. REMOVE AND DISPOSED OF EX. CONCRETE 'POST AND BEAM' STRUCTURE, INCLUDING BELOW GRADE FOUNDATIONS, IN THE EVENT OF POTENTIAL UNDERMINING OF EX. CONCRETE RETAINING WALL TO REMAIN. FOUNDATIONS MAY BE CUT ABOVE THE BASE SLAB AND BURIED.
  9. DEMOLISH AND REMOVE PORTION OF BUILDING BETWEEN 1913 BUILDING AND THE SHADED BRACED PORTION.

ISSUED FOR  
HERITAGE REVIEW  
SECOND DRAFT  
APR 08, 2025

HERITAGE REVIEW - SECOND DRAFT	4	APR 08/25
DRAFT REVIEW SET	3	MAR 04/25
DRAFT REVIEW SET	2	FEB 28/25
DRAFT REVIEW SET	1	NOV 08/24



Engineers, Scientists, Surveyors

519-743-6500

CLIENT  
REGIONAL MUNICIPALITY  
OF WATERLOO

PROJECT  
RUMPEL FELT  
DEMOLITION  
KITCHENER, ONT.

DRAWING  
DEMOLITION and STABILIZATION  
ROOF FRAMING PLAN

Project Manager	PAS	Date	SEPTEMBER 2024
Design By	PAS	Project No.	33223-301
Drawn By	STD	Drawing No.	S3.3
Scale	1/8"=1'-0"		