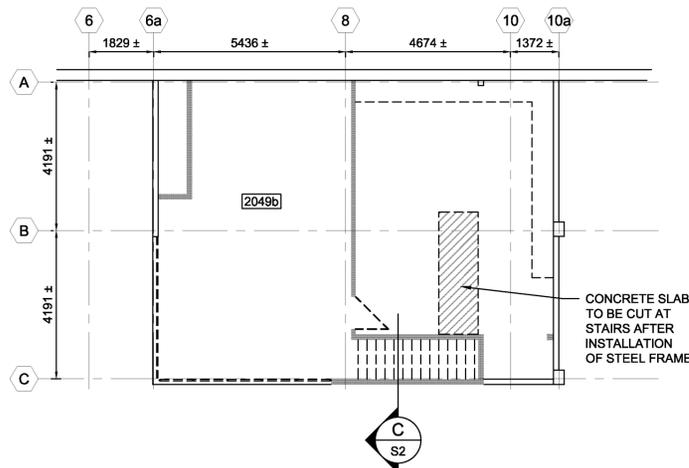


1 DEMOLITION LEVEL 2 FLOOR PLAN
SCALE: 1:100

NOTE:
 - FOR NEW MASONRY WALL LOCATION REFER TO ARCHITECTURAL DRAWINGS.
 - FOR NEW STAIR OPENING DIMENSIONS REFER TO ARCHITECTURAL DRAWINGS.
 - NO REBAR SHALL BE CUT FOR NEW OPENINGS FOR PIPING AND CONDUIT IN THE MEZZANINE SLAB, AND LEVEL 2 FLOOR SLAB.



2 DEMOLITION MEZZANINE PLAN
SCALE: 1:100

DEMOLITION LEGEND:

- EXISTING WALL TO REMAIN
- EXISTING WALL TO BE REMOVED

GENERAL NOTES:

1. WORK AND MATERIALS TO CONFORM TO REQUIREMENTS OF NATIONAL BUILDING CODE OF CANADA, 2015.
2. WORK TO BE CARRIED IN ACCORDANCE WITH NOVA SCOTIA OCCUPATIONAL HEALTH AND SAFETY REGULATIONS.
3. STRUCTURAL DESIGN WORK TO BE PERFORMED IN ACCORDANCE WITH FOLLOWING CODES AND STANDARDS: NATIONAL BUILDING CODE OF CANADA 2015, CSA STANDARD A23.3-14 (CONCRETE), CSA STANDARD CAN/CSA-S16-14 (STRUCTURAL STEEL), CSA STANDARD S304.1-04 (MASONRY).
4. VERIFY DIMENSIONS, ELEVATIONS AND ALIGNMENT OF NEW AND EXISTING WORK AND SUBMIT ANY INCONSISTENCIES AND ALTERATIONS TO THE WORK FOR REVIEW PRIOR TO COMMENCING CONSTRUCTION.
5. COORDINATE WORK ON THESE DRAWINGS WITH ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND REPORT ANY INCONSISTENCIES TO THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
6. CONTRACTOR TO ASSUME FULL RESPONSIBILITY OF STRUCTURES DURING DEMOLITION AND ERECTION. CONTRACTOR TO PROVIDE ADEQUATE TEMPORARY BRACING SYSTEM AND SUPPORT TO MAINTAIN STRUCTURAL SAFETY, PLUMB AND IN TRUE ALIGNMENT UNTIL COMPLETION OF WORK.

REINFORCED CONCRETE NOTES:

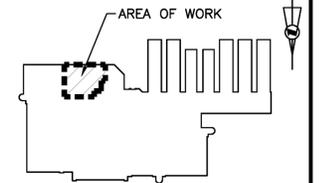
1. STRUCTURAL CONCRETE MATERIALS, TESTING AND WORKMANSHIP TO CONFORM TO CSA STANDARD A23.3-14.
2. STRUCTURAL CONCRETE PROVIDER TO SUBMIT MIX DESIGNS FOR RECORD TO DEPARTMENTAL REPRESENTATIVE.
3. REINFORCING STEEL TO BE DEFORMED NEW BILLET STEEL CONFORMING TO CSA G30.18-2009 GRADE 400.
4. WELDED STEEL WIRE FABRIC TO CONFORM TO CSA STANDARD ASTM A185/A185M. PROVIDE IN FLAT SHEETS ONLY, IF IT IS APPLICABLE.
5. UNLESS NOTED OTHERWISE REINFORCING STEEL TO HAVE A MINIMUM CLEAR CONCRETE COVER AS FOLLOWS:
 - a. CONCRETE AGAINST FILL PERMANENTLY EXPOSED TO EARTH - 75mm
 - b. CONCRETE AGAINST FORMS EXPOSED TO EARTH - 40mm
 - c. SLABS AND WALLS 20M AND SMALLER - 20mm
 - d. SLABS AND WALLS 25M - 25mm
6. UNLESS NOTED OTHERWISE REINFORCING STEEL TO BE SPICED AS FOLLOWS:
 - a. SPLICES TO BE TENSION LAP SPLICES, CLASS "B" U.N.O.
 - b. NO MORE THAN 50% OF REINFORCING TO BE SPICED AT ANY GIVEN LOCATION.
7. HOOKED BARS TO BE STANDARD HOOK U.N.O. HOOKS AND BENDS TO BE IN ACCORDANCE WITH R.S.I.C. MANUAL OF STANDARD PRACTICE U.N.O.
8. REINFORCING STEEL, EMBEDDED PARTS, ANCHOR BOLTS, DOWELS ETC. TO BE SECURED IN POSITION PRIOR TO PLACING CONCRETE AND HELD RIGIDLY DURING PLACEMENT OF CONCRETE.
9. ALL REINFORCING STEEL TO BE DETAILED, FABRICATED, PLACED AND SUPPORTED IN ACCORDANCE WITH REINFORCING STEEL MANUAL OF STANDARD PRACTICE BY REINFORCING STEEL INSTITUTE OF CANADA 2014, AND CSA-A23.3-14.
10. REINFORCING STEEL TO BE REVIEWED BY DEPARTMENTAL REPRESENTATIVE PRIOR TO CLOSING FORMS.
11. ALL CORNERS AND INTERSECTIONS TO HAVE CORNER BARS, SAME SIZE AND SPACING AS MAIN BARS. PROVIDE TENSION LAP WITH MAIN BARS.
12. SUBMIT REINFORCING STEEL SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION.
13. CONTRACTOR IS RESPONSIBLE FOR DESIGN OF FORMWORK TO CAN/CSA-S269.3-M92 (R2013) AND FALSEWORK TO 2269.1-1975 (R2003).
14. AT LEAST ONE SLUMP TEST AND ONE AIR ENTRAINMENT TEST SHALL BE TAKEN WITH EACH COMPRESSIVE STRENGTH TEST.
15. NO ADMIXTURES SHALL BE USED WITHOUT PRIOR APPROVAL FROM DEPARTMENT REPRESENTATIVE.
16. CONCRETE MIX DESIGN SHALL BE SUBMITTED FOR REVIEW.
17. CURING, PROTECTION AND FINISHING OF CONCRETE SHALL CONFORM TO CSA-A23.1-09.
18. FORM SHALL NOT BE REMOVED BEFORE THE CONCRETE HAS SET AND REACHED 70% OF ITS DESIGN STRENGTH, AND AFTER THE FOLLOWING WAIT PERIODS:
 - A. FOOTINGS 3 DAYS
 - B. -CONCRETE SLAB 28 DAYS
19. ALL CONCRETE SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
 - MIX 1 FOR FOOTINGS, AND SLAB ON GRADE, SLAB:
 - CSA EXPOSURE CLASS: N
 - MAX w/cm RATIO: 0.50 AND AS PER CAN/CSA A23.1/A23.2
 - MIN COMPRESSIVE STRENGTH AT 28 DAYS: 30 MPa
 - AIR CONTENT: MAX 3% FOR CONCRETE INVOLVING HARDENER AS PER FLOOR HARDENER MANUFACTURER. NOT REQUIRED FOR SLAB ON GRADE IN OFFICE/SUPPORT AREAS, 4-7% OTHERWISE.
 - NOMINAL COARSE AGGREGATE SIZE: 20mm
 - CEMENT TYPE: GU, (WITH FLYASH AS INDICATED)
 - SLUMP: TO CAN/CSA A23.1/A23.2-09, NOT TO EXCEED 80mm**
 - TYPE F FLYASH REPLACEMENT BY MASS OF TOTAL CEMENTITIOUS MATERIAL: 15% FOR CONCRETE INVOLVING HARDENER*, 15% MIN, 25% MAX OTHERWISE.
 - MIN CEMENT CONTENT (INCLUDING FLYASH): 335 kg/m³
 - *COORDINATE WITH FLOOR HARDENER MANUFACTURER FOR COMPATIBILITY.
 - **READ IN CONJUNCTION WITH SPECIFICATION FOR ADDITIONAL REQUIREMENTS REGARDING MIX DESIGN, SLUMP AND ADMIXTURES.
20. CONCRETE SHALL HAVE A UNIT WEIGHT OF 2350 kg/m³.

STRUCTURAL STEEL NOTES:

1. STEEL SECTIONS ARE INDICATED IN S.I. SYSTEM OF UNITS.
 2. STRUCTURAL STEEL MATERIALS, FABRICATION AND ERECTION TO CONFORM TO:
 - a) CAN/CSA-G40.21 GRADE 350W FOR ROLLED SECTIONS PLATES AND FOR HSS SECTIONS - CLASS C. HSS TO ASTM A500 NOT PERMITTED.
 - b) CAN/CSA G40.21 GRADE 300W FOR ANCHOR BOLTS.
 - c) ASTM-A325-09a FOR CONNECTION BOLTS.
 - d) CSA W48-06 SERIES FOR WELDING ELECTRODES.
 3. FABRICATE AND ERECT STRUCTURAL STEEL IN ACCORDANCE WITH CAN/CSA-S16-14 AND G40.21-04.
 4. WELDING DESIGN AND PRACTICE IN ACCORDANCE WITH CSA W59-03.
 5. CONNECTIONS SHALL BE DESIGNED, AND CALCULATIONS AND DRAWINGS STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF NOVA SCOTIA.
 6. BEAM CONNECTIONS SHALL BE SYMMETRICAL. PROVIDE NO LESS THAN 2 BOLTS IN ANY CONNECTION. SINGLE ANGLE BEAM CONNECTIONS NOT PERMITTED.
 7. WELDED CONNECTIONS SHALL BE MADE NO LESS THAN 5mm FILLED WELD. WELDS SHALL BE CONTINUOUS.
 8. FIELD WELDED CONNECTIONS SHALL BE INSPECTED VISUALLY AND BY MAGNETIC PARTIAL TESTING BY AN INDEPENDANT INSPECTION COMPANY ENGAGED BY ENGINEER.
 9. ALL BASE PLATES SHALL BE GROUTED SOLID WITH NO-SHRINK GROUT. REFER TO BASE PLATE AND ANCHOR ROD SCHEDULE FOR THICKNESS.
 10. ALL BEAM TO COLUMN AND BEAM TO BEAM CONNECTIONS TO E DESIGNED FOR 50 PERCENT SHEAR CAPACITY OF BEAM, UNLESS NOTED OTHERWISE.
 11. SUBMIT SHOP DRAWINGS TO BE SEALED BY A PROFESSIONAL ENGINEER LICENSED IN PROVINCE OF NOVA SCOTIA.
- FORMWORK NOTES:**
1. DESIGN, CONSTRUCT AND REMOVE FORMWORK, FRAMING SUPPORTS AND BRACING TO CONFORM TO THE REQUIREMENTS SPECIFIED IN CAN/CSA A23.1-09 AND CAN/CSA S269.1075 (R2003) TO PROVIDE FINISHED POURED CONCRETE SURFACES WITH SPECIFIED TOLERANCES.
 2. INSTALL ITEMS SUPPLIED BY OTHERS SUCH AS INSERTS, ANCHOR BOLTS, MISCELLANEOUS FRAMES, METAL FLASHING REGLETS, HOLES, SLEEVES, LADDER RUNGS AND ANCHOR SLOTS.
 3. FORM REMOVAL TIMES SHALL BE IN ACCORDANCE WITH CAN/CSA A23.1-09 AND ACI SP4-05. INCREASE TIMES FOR EFFECTS OF SUPPLEMENTARY CEMENTING MATERIALS. AS MINIMUM, FORM REMOVAL TIMES SHALL NOT BE LESS THAN THE FOLLOWING:
 - A. FOOTINGS: 3 DAYS
 - B. SUSPENDED SLABS/BEAMS: 28 DAYS

MASONRY NOTES:

1. MASONRY DESIGN TO CSA S304.1-04.
2. MASONRY CONSTRUCTION TO CSA A371-04 (R2009)
3. MASONRY CONNECTIONS TO CSA A307-04 (R2009)
4. CONCRETE UNIT MASONRY: TYPE H/20/A/M CONFORMING TO CSA A165 SERIES-04 (2009).
5. MASONRY MORTAR TO CSA A179-04 (R2009). "MORTAR AND GROUT FOR UNIT MASONRY", TYPE "S" FOR LOAD BEARING AND NON-LOAD BEARING CONCRETE BLOCK WALLS.
6. REINFORCING STEEL: NEW DEFORMED REINFORCING BARS TO CSA C30.18-09, GRADE 400. JOINT REINFORCING STEEL: 3mm TRUSS TYP. HOT DIPPED GALVANIZED TO ASTM A82 AND ASTM A185 FOR WELD AND SHEAR STRENGTHS. LAP MINIMUM 150 AT SPLICES.
7. GROUT:
 - COURSE CONCRETE GROUT TO CSA A179-04 (R2009)
 - MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS: 20 MPa
 - MAXIMUM AGGREGATE SIZE: 10mm
 - SLUMP: 200-250mm
8. PROVIDE MINIMUM "CLASS B" TENSION LAP SPLICE IN ACCORDANCE WITH S304.1-04.
9. MORTAR JOINTS SHALL BE 10mm
10. HOLLOW MASONRY UNITS SHALL BE LAID WITH FULL HEAD AND BED JOINTS.
11. FILL ALL REINFORCED CORES WITH CONCRETE GROUT.
12. LATERALLY SUPPORT MASONRY WALLS AT TOP OF WALL AT 1200 O/C/ MAX. OR AS DETAILED ON DRAWINGS.
13. PROVIDE CLEANOUTS AND INSPECTIONS HOLES AT BOTTOM OF REINFORCED CORES WHERE POUR LIFT EXCEEDS 1200mm IN HEIGHT. MAXIMUM LIFT IN ONE POUR IS 2400mm.



KEY PLAN



O1	ISSUED FOR TENDER	01/25 2018
revisions		date
project		projct

**AAFC RESEARCH CENTRE MIRCO WINERY
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drawing no. du dessin

DEMOLITION LEVEL 2 FLOOR & MEZZANINE PLAN

designed AM	conçu
date 2018-01-25	
drawn JO	dessiné
date 2018-01-25	
approved J. ROSE	approuvé
date 2018-01-25	
Tender	Soumission

PWGSC Project Manager / Administrateur de projets TPSGC

project number / no. du projet
R.083308.001

drawing no. / no. du dessin

S1