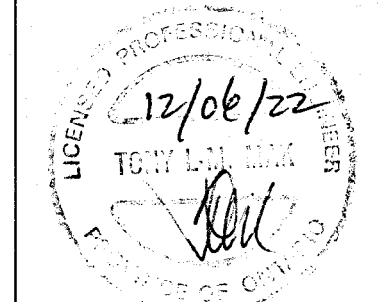


- LEGEND**
- 72.20 PROPOSED ELEVATION
  - x 71.90 EXISTING ELEVATION
  - F.F. PROPOSED TOP OF MAIN FLOOR ELEVATION
  - T.O.F. PROPOSED TOP OF CONCRETE FOUNDATION ELEVATION
  - U.S.F. PROPOSED UNDERSIDE OF CONCRETE FOOTING ELEVATION
  - D/W PROPOSED DRIVEWAY
  - - - EXISTING COMBINED SEWER
  - - - EXISTING WATERMAIN
  - - - PROPOSED 150mm PVC SANITARY LATERAL SERVICE @ 1% (MIN.) SLOPE
  - - - PROPOSED 150mm PVC STORM LATERAL SERVICE @ 1% (MIN.) SLOPE
  - - - PROPOSED 100mm WATER SERVICE (PVC CL 150 DR-18)
  - WH-S EXISTING COMBINED MANHOLE
  - CB EXISTING CATCH BASIN
  - WV EXISTING WATER VALVE
  - FH EXISTING FIRE HYDRANT
  - UP EXISTING UTILITY POLE
  - OHW EXISTING OVERHEAD WIRES
  - V&VB PROPOSED VALVE AND VALVE BOX (V&VB)
  - PROPOSED GENERAL DIRECTION OF LOT GRADING AND SURFACE FLOW
  - RD#1 PROPOSED ROOF DOWNSPOUT LOCATION
  - SC PROPOSED ROOF SCUPPER LOCATION
  - PROPOSED HIGH RIDGE LINE

- NOTES**
- EXISTING SERVICES AND UTILITIES SHOWN ON THIS DRAWING WERE TAKEN FROM THE BEST AVAILABLE RECORDS BUT ARE NOT COMPLETE. CONTRACTOR IS REQUESTED TO CHECK IN THE FIELD FOR LOCATION AND ELEVATION OF PIPES, UNDERGROUND STRUCTURES, ETC. AND CHECK WITH AUTHORITIES AND UTILITIES TO HIS SATISFACTION BEFORE DIGGING.
  - CONTRACTOR IS ADVISED TO COLLECT INFORMATION ON SOIL CONDITIONS AS DEEMED NECESSARY. REFER ALSO TO THE SITE GEOTECHNICAL INVESTIGATION REPORT PREPARED BY THE OWNER'S GEOTECHNICAL CONSULTANTS KOLLARD ASSOCIATES - ENTITLED "GEOTECHNICAL INVESTIGATION, PROPOSED 4-STORY RESIDENTIAL APARTMENT BUILDING" (PROJ. No. Z20214 DATED APRIL 8, 2022).
  - EXISTING BUILDING AND STRUCTURE LOCATION, TOPOGRAPHICAL INFORMATION ON THIS DRAWING, GEODETIC SITE BENCHMARK, SEWER INVERT, SEWER LOCATION AND MANHOLE LOCATIONS, ETC. SHOWN ON THIS PLAN WERE PROVIDED BY ANNIS O'SULLIVAN VOLLEBEKK LTD. (JOB No. 21327-21 COMPLETED MARCH 25, 2021) AND RECEIVED ON APRIL 27, 2022. SANITARY AND STORM SEWER INVERT INFORMATION ALONG CAMBRIDGE STREET NORTH CAN ALSO BE REFERENCED FROM THE CITY'S PLAN AND PROFILE DRAWING ENTITLED CAMBRIDGE STREET - RAYMOND STREET TO STA. 130.00 PLAN No. 3335 SHEET 3 OF 24 DATED JANUARY, 2003 PREPARED BY THE CITY OF OTTAWA. THE CONTRACTOR SHALL FIELD SURVEY AND VERIFY THIS INFORMATION TO HIS OR HER SATISFACTION PRIOR TO CONSTRUCTION. T.L. MAK ENGINEERING CONSULTANTS LTD. DOES NOT TAKE ANY RESPONSIBILITY FOR THE SURVEY INFORMATION SHOWN HEREIN. THE CONTRACTOR IS ADVISED TO OBTAIN AND REVIEW TO HIS SATISFACTION THIS SURVEY/TOPOGRAPHICAL PLAN PRIOR TO CONSTRUCTION.
  - SITE LAYOUT AND DETAILS FOR GRADING AND SWM DESIGN WERE PROVIDED BY THE OWNER'S BUILDING DESIGNER "MIRCO DESIGN INC." AS DETAILED ON THEIR SITE PLAN (DWG. No. S1.1 DATED FEBRUARY, 2021) RECEIVED ON APRIL 27, 2022 AND UPDATED ON DECEMBER 6, 2022. PROPOSED ELEVATIONS PLAN (DWG. No. A1.2 DATED DECEMBER 2021) RECEIVED ON MAY 6, 2022 WAS USED TO ESTABLISH THE F.F., T.O.F., TOP OF BASEMENT SLAB AND U.S.F. ELEVATIONS. BUILDING ELEVATION WERE UPDATED PER HOUSE DESIGNER'S E-MAIL OF JULY 13, 2022 AND AUGUST 8, 2022.
  - ALL GRADES SHOWN ARE GEODETIC AND METRIC (SEE ANNIS O'SULLIVAN VOLLEBEKK LTD'S TOPOGRAPHICAL PLAN).
  - PIPE SIZES SHOWN ON THIS PLAN ARE METRIC.
  - THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY EQUIPMENT, LABOUR AND MATERIALS RELATING TO ALL CIVIL WORKS REQUIRED FOR THIS SITE AND BY THE CITY OF OTTAWA TO CONNECT INTO THE WATERMAIN.
  - ALL GRADING SHALL BE DONE TO THE SATISFACTION OF THE CITY OF OTTAWA.
  - CONNECTION OF THE 100mm WATER SERVICE TO THE EXISTING 200mm WATERMAIN ON CAMBRIDGE STREET NORTH SHALL BE BY THE CITY OF OTTAWA AND EXCAVATION, BACKFILLING AND REINSTATEMENT SHALL BE CARRIED OUT BY THE CONTRACTOR. ALL WATERWORKS TO BE CONSTRUCTED TO CITY OF OTTAWA WATER ENGINEERING STANDARDS AND SPECIFICATIONS.
  - CONSTRUCT ALL WATERMAIN, WATER SERVICES, SANITARY AND STORM SEWER SYSTEMS IN ACCORDANCE WITH CITY OF OTTAWA'S LATEST REVISED STANDARD OTHERWISE AS PER DPSS REQUIREMENT AND DONE TO THE SATISFACTION OF THE CITY.
  - BEDDING AND HAUNCHING MATERIAL FOR SEWER INSTALLATIONS TO BE GRANULAR "A" INSTALLED AND COMPACTED AS PER CITY STANDARD DETAIL DWG. No. S6 AND S7.
  - STORM AND SANITARY LATERALS (150mm) SHALL BE PVC DR-28 OR EQUIVALENT. SEWER CONNECTION DETAILS PER CITY DETAIL S11.1 FOR FLEXIBLE PIPES AND S11 FOR RIGID PIPES.
  - ALL WATER SERVICES/MAINS SHALL HAVE 2.4m COVER (MIN.). THE 100mm WATER SERVICE SHALL BE PVC CL 150 DR-18. WATER SERVICE AND WATERMAIN TRENCH DETAILS AS PER CITY OF OTTAWA W17. THRUST BLOCK DETAILS AS PER CITY DETAIL W25.3 DATED MAY 2001. FITTINGS SHALL CONFORM TO APPROVED AWWA AND/OR CSA STANDARDS. CATHODIC PROTECTION FOR NEW WATERMAIN AND SERVICE AS PER CITY DETAIL W40 REV. DATE MARCH 2005.
  - IF WATER SERVICE IS LESS THAN 1.0m FROM SEWER, MANHOLE OR CATCHBASIN, CONTRACTOR IS REQUESTED TO INSULATE BETWEEN THEM WITH 50mm RIGID INSULATION (SEE CITY DETAIL DRAWING No. W23).
  - STORM MANAGEMENT NOTES**  
-REFER TO PROPOSED ROOFTOP STORMWATER MANAGEMENT PLAN (DWG. No. 821-155 SWM-1) FOR ROOF TOP 2 YEAR AND 100 YEAR HWL.  
-SEE STORM DRAINAGE REPORT No. R-821-155 DATED JULY 2022 ALSO FOR DETAILS.  
-CONTROLLED ROOF DRAIN (MAX) RELEASE FLOW RATE FOR EACH DRAIN SHALL BE 0.95 L/s OR 15.0 U.S. GAL/MIN. UNDER A HEADING OF 150mm.
  - ALL PROPOSED BUILDING SANITARY, STORM AND WATER SERVICES SHALL TERMINATE ±1.0m OUTSIDE THE FOUNDATION WALL AND CONNECTION TO PLUMBING BY OTHERS.
  - IT IS REQUIRED THAT A CITY APPROVED BACKWATER VALVE BE INSTALLED AT THE NEW 150mm DIA. (FOUNDATION DRAINS) STORM LATERAL SERVICE AND A FULL PORT BACKWATER VALVE BE INSTALLED FOR THE NEW SANITARY LATERAL SERVICE AS PER CITY DETAIL S14, S14.1, AND S14.2.
  - PRIOR TO CONCRETE FOOTING AND FOUNDATION POURING, THE OWNERS AND/OR CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THE SUBGRADE ON THIS LOT IS SUFFICIENT TO SUPPORT THE PROPOSED BUILDING.
  - FOR DEVELOPMENT OF THIS LOT, THE CONTRACTOR MUST FIRST CONSTRUCT THE UNDERGROUND SANITARY, STORM AND WATER SERVICES FROM THE SEWER AND WATERMAIN TO SERVICE THE ENTIRE PROPERTY PRIOR TO BUILDING FOUNDATION POURING. THE CONTRACTOR SHALL VERIFY SEWER DEPTHS TO ENSURE THAT SEWER LATERALS CAN ACHIEVE A SLOPE OF 1.0% (MIN.) AND STILL BE BELOW PROPOSED UNDERSIDE OF CONCRETE FOOTING ELEVATION. IF THIS IS FOUND NOT POSSIBLE, THE CONTRACTOR SHALL CONTACT THE OWNER TO REPORT THE FINDING IN ORDER TO ADJUST THE BUILDING FOUNDATION GRADES PRIOR TO CONCRETE POURING.
  - THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY EQUIPMENT, LABOUR AND MATERIALS RELATING TO THE CIVIL WORKS REQUIRED FOR INSTALLATION OF NEW SITE SERVICES. PROVINCIAL HEALTH AND SAFETY REGULATIONS MUST BE FOLLOWED DURING CONSTRUCTION.
  - IT IS THE RESPONSIBILITY OF THE SITE SERVICES CONTRACTOR TO OBTAIN AND CONSTRUCT THE WORKS TO MEET THE LATEST REVISIONS IN CURRENT CIRCULATION OF THE CITY OF OTTAWA'S ENGINEERING STANDARDS, OPSS AND DPSS STANDARDS, AND ONTARIO BUILDING/PLUMBING CODES. WHERE THE LATEST REVISION DIFFERS FROM THE REQUIREMENTS SET OUT IN THIS PLAN, THE CONTRACTOR SHALL PRICE THE WORKS TO MEET LATEST REVISED STANDARDS IN HIS PRICE BID FOR THIS PROJECT. THE CONTRACTOR SHALL INFORM THE ENGINEERS OF ANY CHANGES PRIOR TO COMMENCEMENT OF THE WORKS.
  - PROPOSED GROUND FLOOR, TOP OF CONCRETE FOUNDATION, TOP OF BASEMENT SLAB AND UNDERSIDE OF FOOTING ELEVATIONS SHALL BE REVIEWED AND APPROVED BY OWNER'S ARCHITECTS PRIOR TO CONSTRUCTION.

<b>SCALE</b>		DESIGN	T.L.M.	PROJECT	370 CAMBRIDGE STREET NORTH LOT 15 WEST CAMBRIDGE STREET NORTH SOUTH OF STONE BOUNDARY REGISTERED PLAN 33 CITY OF OTTAWA
0 1.25m 3.75m 6.25m		CHECKED	T.L.M.		
1:125 HORIZONTAL		DRAWN BY	P.M.	DRAWING TITLE	PROPOSED LOT GRADING PLAN
VERTICAL		CHECKED	T.L.M.		
		APPROVED	T.L.M.	PROJECT No.	821-155
				DATE	APRIL 2022
				DRAWING No.	G-1

2		REVISIONS AS PER HOUSE DESIGNER'S LATEST REVISED SITE PLAN AND LANDSCAPE PLAN PROVIDED ON DECEMBER 8, 2022	12/08/22	TLM
1		REVISIONS AS PER HOUSE DESIGNER'S LATEST REVISED SITE PLAN OF AUGUST 8, 2022	08/08/22	TLM
No.		REVISION	DATE	BY



REGISTERED