

N.T.S. MH-S 1:40 73.78  
N.T.S. MH-ST 1:40 73.63

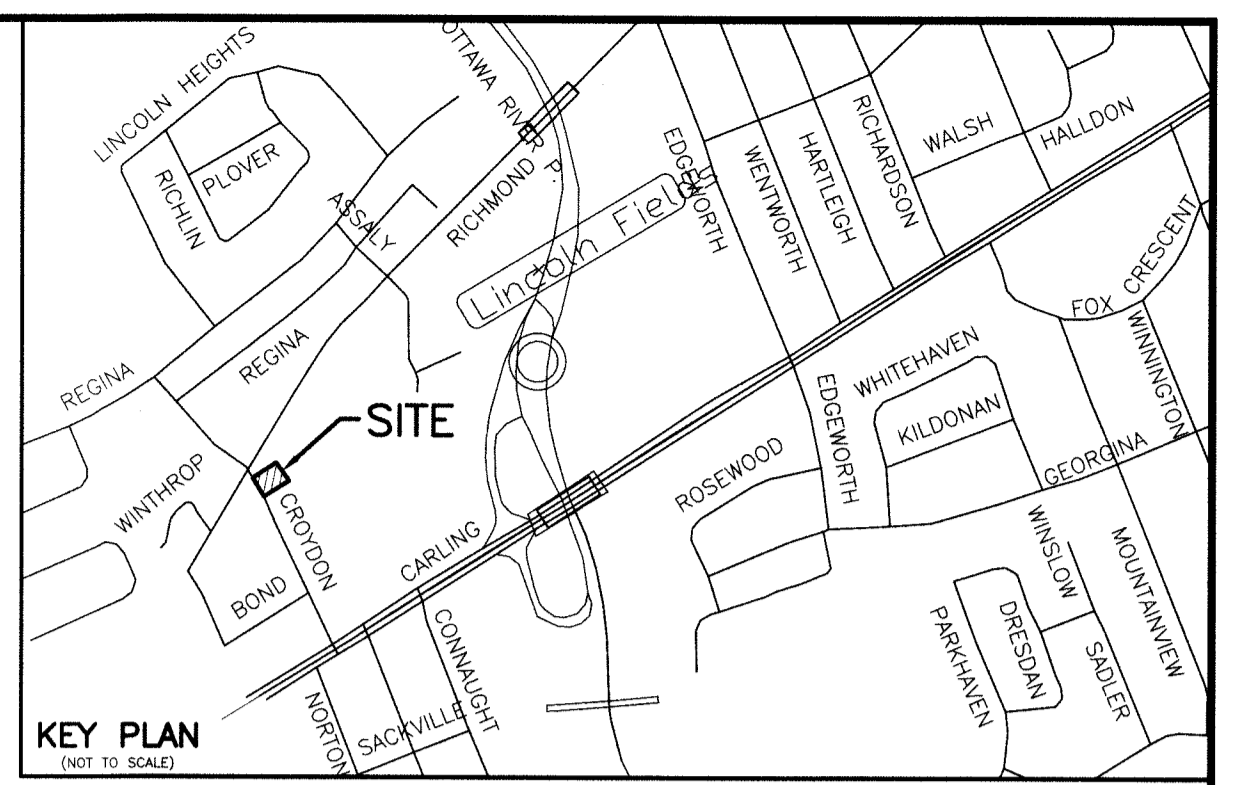
**SECTION A-A'**

50mm OF SUPERPAVE 12.5 ASPHALTIC CONCRETE
150mm OPSS GRAN. "A" (BASE)
300mm OPSS GRAN. "B" - TYPE II SUB-BASE OVER (50 OR 100mm MINUS CRUSHED STONE)
NON-WOVEN GEOTEXTILE FABRIC (4 oz/sy) SUCH AS TERRAFIX 270R OR APPROVED ALTERNATIVE

TYPICAL ACCESS ROADWAY AND PARKING PAVEMENT STRUCTURE

**X-SECTIONAL DETAIL**  
NOT TO SCALE

NOTE: - PAVEMENT STRUCTURE SHOWN ON THIS PLAN SHALL BE VERIFIED BY THE OWNER'S SOILS ENGINEER PRIOR TO SUBGRADE EXCAVATION  
- ASPHALTIC CONCRETE (PG 58-34)  
- SEE NOTE #2 FOR PAVEMENT STRUCTURE DETAILS



AVENUE CROYDON  
P. I. N. 03963 - 0001

Local Benchmark  
2 Nails on Utility Pole  
Elevation=74.974

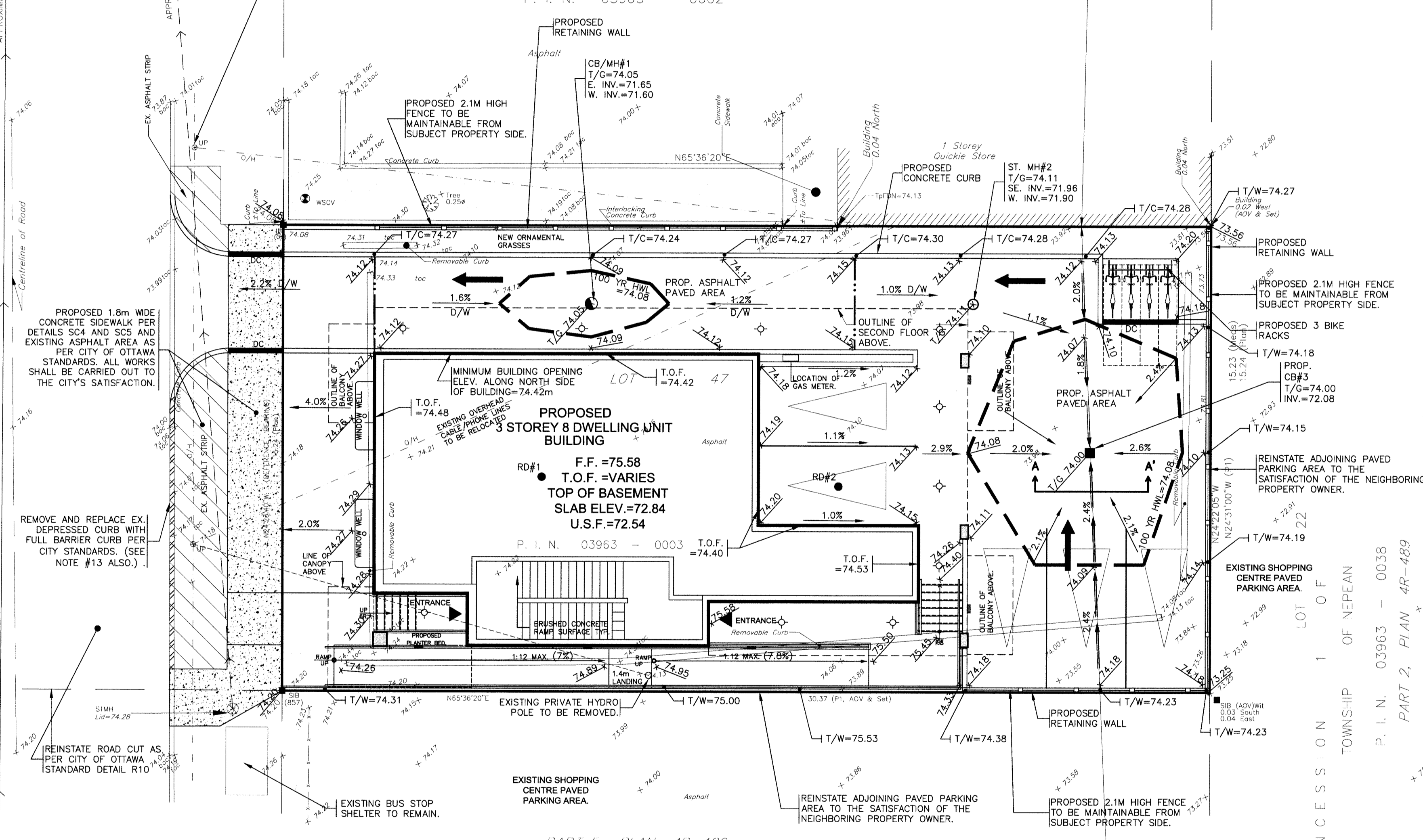
REGISTERED PLAN 311

**LEGEND**

- 74.12 PROPOSED ELEVATION
- x.73.99 EXISTING ELEVATION
- F.F. PROPOSED MAIN LEVEL SUBFLOOR ELEVATION
- T.O.F. PROPOSED TOP OF CONCRETE FOUNDATION ELEVATION
- U.S.F. PROPOSED UNDERSIDE OF CONCRETE FOOTING ELEVATION
- D/W PROPOSED DRIVEWAY
- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- EXISTING WATERMAIN
- EXISTING SANITARY MANHOLE
- EXISTING STORM MANHOLE
- EXISTING INLET CATCH BASIN
- EXISTING FIRE HYDRANT
- EXISTING WATER VALVE
- EXISTING UTILITY POLE
- EXISTING OVERHEAD WIRES
- PROPOSED V&V
- PROPOSED GENERAL DIRECTION OF LOT GRADING AND SURFACE WATER FLOW
- PROPOSED RETAINING WALL
- T/W PROPOSED TOP OF RETAINING WALL ELEVATION
- T/C PROPOSED TOP OF CURB ELEVATION
- PROPOSED ASPHALT SWALE
- PROPOSED CB/MH (CATCH BASIN/MANHOLE)
- PROPOSED STORM MANHOLE
- PROPOSED CATCH BASIN (600mmx600mm)
- PROPOSED HIGH RIDGE LINE
- PROPOSED OVERLAND FLOW ROUTE
- PROPOSED ROOF DOWNSPOUT LOCATION
- PROPOSED 100 YR HIGH WATER LEVEL = 74.08
- PROPOSED CONCRETE SPLASH PAD LOCATION
- PROPOSED EMERGENCY BACKUP PUMP(S) AND PIT LOCATION FOR HOUSE WEEPING TILE DRAINAGE
- PROPOSED CONCRETE SIDEWALK ON CITY ROW
- PROPOSED NEW BARRIER CONCRETE CURB

**NOTES**

1. 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 AND CHECK WITH AUTHORITIES AND UTILITIES TO HIS SATISFACTION BEFORE DIGGING.
2. CONTRACTOR IS ADVISED TO COLLECT INFORMATION ON SOIL CONDITIONS AS DEEMED NECESSARY. REFER TO THE SITE GEOTECHNICAL INVESTIGATION REPORT PREPARED BY THE OWNER'S SOILS ENGINEER KOLLARIS ASSOCIATES (PROJECT No. 10061 DATED JANUARY 24, 2017). FOR DETAILS OF PAVEMENT STRUCTURE DETAILS, REFER TO PAGES No. 13 AND 14 OF THE GEOTECHNICAL REPORT.
3. SITING DETAILS FOR THE PROPOSED BUILDING WERE TAKEN FROM THE OWNER'S HOUSE DESIGNER'S (P-SQUARED CONCEPTS INC.) SITE PLAN (DWG. No. SP-01 DATED JULY 14, 2017 REV. 4 PROJECT No. 0205). FOR DETAILS OF THE MAIN LEVEL SUBFLOOR (F.F.), TOP OF FLOOR (T.O.F.), TOP OF BASEMENT SLAB ELEVATION AND UNDERSIDE OF FOOTING (U.S.F.) INFORMATION FOR THE VARIOUS ELEVATION LEVELS OF THE NEW BUILDING, REFER TO THE OWNER'S HOUSE DESIGNER'S EXTERIOR ELEVATIONS PLAN (PROJECT No. 0205 DWG. No. A-02 DATED APRIL 26, 2017 REV. 2).
4. EXISTING BUILDING AND STRUCTURE LOCATION, TOPOGRAPHICAL INFORMATION ON THIS DRAWING, GEODETIC SITE BENCHMARK, SEWER INVERT AND LOCATION ETC. SHOWN ON THIS PLAN WERE PROVIDED BY FARLEY, SMITH & DENIS SURVEYING LTD. (FILE No. 3-10 DATED SEPTEMBER 29, 2010 RECEIVED ON MAY 10, 2017). T.L. MAK ENGINEERING CONSULTANTS LTD. DOES NOT TAKE ANY RESPONSIBILITY FOR THE SURVEY INFORMATION SHOWN HERE. THE CONTRACTOR IS ADVISED TO OBTAIN AND REVIEW TO HIS SATISFACTION THIS SURVEY/TOPOGRAPHICAL PLAN PRIOR TO CONSTRUCTION. STORM AND SANITARY INVERT INFORMATION WAS TAKEN FROM AVAILABLE CITY OF OTTAWA PLAN AND PROFILE DRAWING CROYDON AVENUE - RICHMOND ROAD TO CARLING AVENUE PLAN No. K-28-1 DATED MAY 29/98 CITY FILE No. 1309.
5. ALL GRADES SHOWN ARE GEODETIC AND METRIC (SEE FARLEY, SMITH & DENIS SURVEYING LTD.'S TOPOGRAPHICAL PLAN).
6. 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.
7. ALL GRADING SHALL BE DONE TO THE SATISFACTION OF THE CITY OF OTTAWA.
8. STORMWATER MANAGEMENT NOTES
  - THE 5 YEAR HIGH WATER LEVEL IS ESTIMATED AT ELEVATION = 72.33m CONFINED IN THE UNDERGROUND STORM PIPE AND DRAINAGE STRUCTURES.
  - THE 100 YEAR HIGH WATER LEVEL IS ESTIMATED AT ELEVATION = 74.08m AT PARKING LOT.
  - SEE STORM DRAINAGE REPORT No. R-817-21 DATED JUNE 2017 ALSO FOR DETAILS.
9. PROPOSED TOP OF MAIN LEVEL SUBFLOOR, TOP OF FOUNDATION, TOP OF BASEMENT SLAB AND UNDERSIDE OF FOOTING ELEVATIONS SHALL BE REVIEWED AND APPROVED BY THE OWNERS AND P-SQUARED CONCEPTS INC. PRIOR TO CONSTRUCTION.
10. 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.
11. THIS GRADING DESIGN PLAN WAS PREPARED FOR THE OWNERS FOR BUILDING PERMIT ISSUANCE. ALL WORKS CONSTRUCTED BY THE CONTRACTOR SHALL MEET CITY OF OTTAWA'S CURRENT ENGINEERING STANDARDS AND PER CITY REQUIREMENTS. THIS GRADING PLAN SHALL NOT BE USED FOR BUILDING CONSTRUCTION LAYOUT PURPOSES. REFER TO THE HOUSE DESIGNER'S APPROVED SITE PLAN FOR EXACT DIMENSIONS REGARDING BUILDING LOCATION LAYOUT.
12. IF EXISTING GRADES ALONG ANY EXISTING ADJACENT PROPERTY LIMITS EXCEED THE PROPOSED GRADES ON THIS PROPERTY BY A HEIGHT DIFFERENTIAL THAT EXCEEDS TERRACING OF 3H TO 1V, THEN INSTALL A RETAINING WALL AS PER OWNER'S REQUIREMENTS.
13. CONCRETE BARRIER CURB AND DEPRESSED CURB DETAILS AS PER CITY OF OTTAWA STANDARDS (DWG. No. SC1 MARCH 2007 AND SC4 MARCH 2007) AND CONCRETE SIDEWALK CONSTRUCTION AND REINSTATEMENT SHALL BE DONE TO THE SATISFACTION OF THE CITY OF OTTAWA AND IN ACCORDANCE WITH THE LATEST REVISED CITY ENGINEERING STANDARDS.
14. CONCRETE SIDEWALK, DEPRESSED CURB AND DEPRESSED CONCRETE SIDEWALK DETAILS AS PER CITY OF OTTAWA STANDARDS (DWG. No. SC1 REV. DATE MARCH 2007, SC4 REV. DATE MARCH 2007 AND SC7.1 REV. DATE MARCH 2007). CONCRETE CURB AND CONCRETE SIDEWALK CONSTRUCTION AND REINSTATEMENT SHALL BE DONE TO THE SATISFACTION OF THE CITY OF OTTAWA AND IN ACCORDANCE WITH THE LATEST REVISED CITY ENGINEERING STANDARDS.
15. THE EXISTING CONCRETE CURB AND SIDEWALK ON CROYDON AVENUE IF DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE REINSTATED BY THE CONTRACTOR TO THE SATISFACTION OF THE CITY OF OTTAWA AND IN ACCORDANCE WITH THE LATEST REVISED CITY ENGINEERING STANDARDS.
16. THE CONTRACTOR, UPON COMPLETION OF THE NEW ENTRANCEWAY, SHALL RESTORE THE EXISTING CROYDON AVENUE ROADWAY BULWARK DISTURBED BY CONSTRUCTION WORKS ON THIS PROPERTY. ADDITIONALLY, THE ROADWAY GRADING SHALL BE RESTORED AND REGRADED TO DRAIN POSITIVELY TO EXISTING STORMWATER OUTLET AS REQUIRED BY THE CITY INSPECTOR.
17. ASPHALT DRIVEWAY PAVEMENT STRUCTURES SHALL MEET THE MINIMUM REQUIREMENTS AS SET OUT AS PER THE OWNER'S SOILS ENGINEER AND APPROVED BY THE CITY AND THIS STRUCTURE MUST ALSO BE APPROVED BY THE OWNER'S SOILS ENGINEER ON SITE PRIOR TO CONSTRUCTION BY THE CONTRACTOR. SITE SOILS ENGINEER SHALL APPROVE ALL ROAD SUBGRADE FROST TAPERING AND TRANSITION WORKS PRIOR TO GRANULAR PLACEMENT.
18. WHERE FROST COVER FROM UNDERSIDE OF BUILDING CONCRETE FOOTING TO PROPOSED FINISHED GROUND ELEVATION IS LESS THAN 1.5m, IT IS RECOMMENDED THAT INSULATION (50mm THICK) MINIMUM BE INSTALLED AT THE BUILDING FOOTING AND FOUNDATION TO PROVIDE SUFFICIENT FROST COVER FOR THE FOUNDATION STRUCTURES. THE FOOTINGS WILL NEED TO BE REVIEWED FOR INSULATION BY THE OWNER'S SOILS ENGINEER. EXACT INSULATION REQUIREMENTS SHALL BE AS PER HOUSE DESIGNER'S INSULATION DETAILS AS SHOWN ON THEIR ARCHITECTURAL DRAWINGS AND CONFIRMED BY THE OWNER'S SITE SOILS ENGINEER.
19. NO EXCESS DRAINAGE, DURING AND AFTER CONSTRUCTION, WILL BE DIRECTED TOWARDS THE NEIGHBORS' PROPERTIES.
20. ALL TREES ON THE RIGHT-OF-WAY ARE TO BE MAINTAINED BEFORE AND AFTER CONSTRUCTION AND ALL TREES WITHIN THE PROPERTY SHALL BE PROTECTED AS PER THE 'MUNICIPAL TREES AND NATURAL AREAS PROTECTION BY-LAWS' AND THE 'URBAN TREES CONSERVATION BY-LAW' AS AMENDED FROM TIME TO TIME.
21. THERE WILL BE NO ALTERATION TO THE EXISTING GRADE AND DRAINAGE PATTERN ON THE PROPERTY LINES.
22. THE RETAINING WALL TO BE CONSTRUCTED AND MATERIAL TYPE SHALL BE SPECIFIED BY THE OWNER'S HOUSE DESIGNER AND/OR HIS STRUCTURAL ENGINEER. ANY RETAINING WALLS BUILT ON THIS LOT EXCEEDING 1.0m IN HEIGHT FROM PROPOSED FINISHED GROUND ELEVATION WILL BE REQUIRED TO BE PREPARED AND CERTIFIED BY THE OWNER'S STRUCTURAL ENGINEER AND APPROVED BY THE CITY PRIOR TO CONSTRUCTION.
23. THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES TO PROVIDE PROTECTION OF THE RECEIVING STORM SEWER DURING CONSTRUCTION ACTIVITIES. THESE PRACTICES ARE REQUIRED TO ENSURE NO SEDIMENT AND/OR ASSOCIATED POLLUTANTS ARE RELEASED TO THE RECEIVING WATERCOURSE. THESE PRACTICES INCLUDE INSTALLATION OF SEDIMENT BARRIERS ON ALL CATCH BASIN AND MAINTENANCE HOLES AND A SILT FENCE BARRIER (AS PER OPSD 216.110 AND ASSOCIATED SPECIFICATIONS) ALONG THE PROPERTY LIMITS OF THE PROPOSED DEVELOPMENT AND ALL OTHER AREAS THAT SHEET DRAIN OFF SITE. MAINTENANCE HOLE SEDIMENT BARRIERS TO BE AMOCO 4555 NONWOVEN GEOTEXTILE OR APPROVED EQUIVALENT.
24. REFER TO DWG. No. 817-21, S-1 FOR SITE SERVING DETAILS.



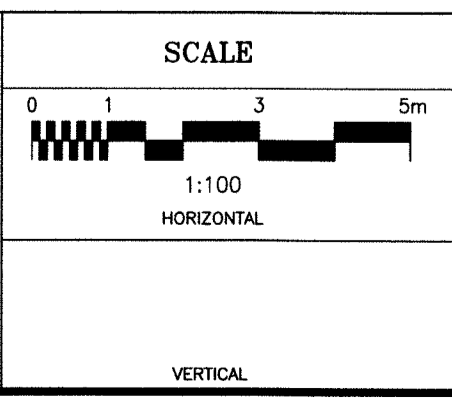
PART 5, PLAN 4R-489  
LOT 46  
P. I. N. 03963 - 0004

REGISTERED PLAN 348

APPROVED  REFUSED

THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_\_

DERRICK MOODIE  
MANAGER, DEVELOPMENT REVIEW - WEST  
PLANNING, INFRASTRUCTURE & ECONOMIC  
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA

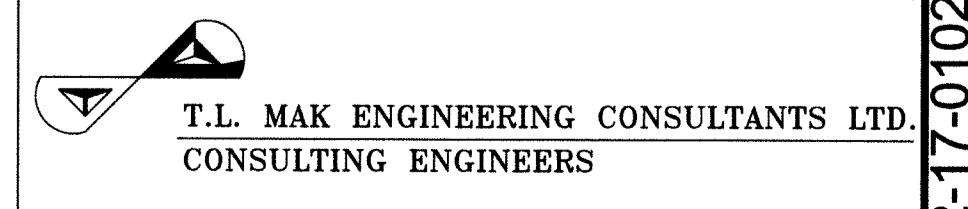


DESIGN	T.L.M.
CHECKED	T.L.M.
DRAWN BY	G.U.
CHECKED	T.L.M.
APPROVED	T.L.M.

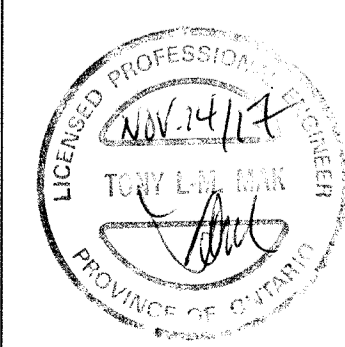
PROJECT  
351 CROYDON AVE  
LOT 47  
REGISTERED PLAN 348  
CITY OF OTTAWA

DRAWING TITLE  
PROPOSED SITE GRADING PLAN

PROJECT No. 817-21  
DATE MAY 2017  
DRAWING No. G-1



NO.	REVISION	DATE	BY
3	AS PER CITY'S REVIEW COMMENTS OF SEPTEMBER 15, 2017	11/09/17	TLM
2	REVISIONS AS PER LATEST REVISED SITE PLAN OF JULY 14, 2017	07/20/17	TLM
1	REVISIONS AS PER OWNER'S BUILDING DESIGNER'S COMMENTS OF JUNE 13, 2017 AND JUNE 21, 2017	06/22/17	TLM



D07-12-17-0102

PLAN # 17488