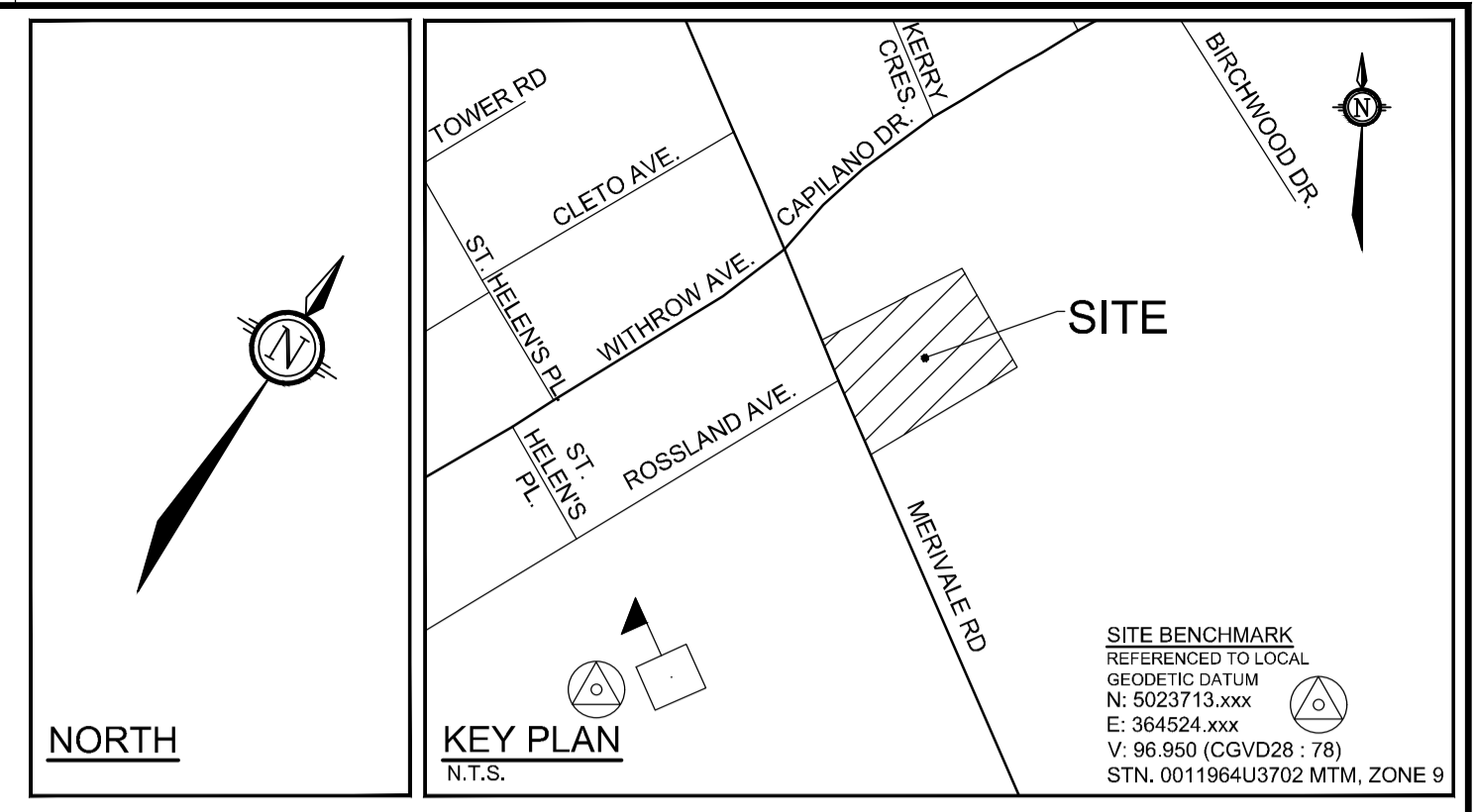


Allison Hamlin

**ALLISON HAMLIN
MANAGER (A), DEVELOPMENT REVIEW WEST
PLANNING, REAL ESTATE & ECONOMIC DEVELOPMENT
DEPARTMENT, CITY OF OTTAWA**

APPROVED
By Allison Hamlin at 4:16 pm, Sep 15, 2023



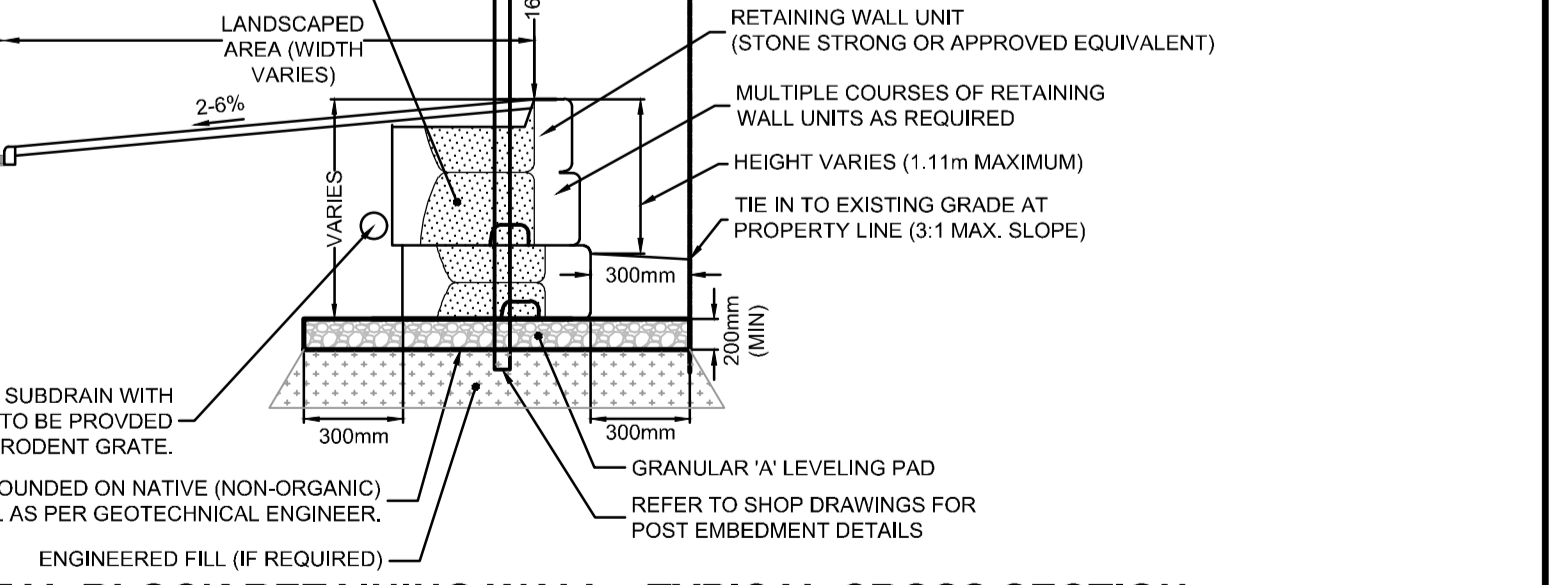
SOURCE REFERENCE:
TOPOGRAPHIC PLAN OF SURVEY OF PART OF LOT 16 REGISTERED PLAN 353 AND PART OF LOT 34 CONCESSION A (RIDEAU FRONT), PREPARED BY FARLEY, SMITH & DENIS SURVEYING LTD. 2021 ON OCTOBER 1st, 2021

TOPOGRAPHIC INFORMATION:
HORIZONTAL DATUM: NAD 83 (ORIGINAL), MTM - ZONE 9
VERTICAL DATUM: CGVD 1928-1978
1. CITY OF OTTAWA 1:1000 MAPPING
2. FARLEY, SMITH & DENIS SURVEYING LTD'S TOPOGRAPHIC PLAN OF SURVEY

- LEGEND**
- 97.00 PROPOSED ELEVATION
 - 96.50 EXISTING ELEVATION
 - 97.00(TW) PROPOSED TOP OF WALL ELEVATION
 - 97.00(BW) PROPOSED ELEVATION AT FRONT FACE OF RETAINING WALL (TO MATCH EXISTING GRADE)
 - EXISTING CONTOUR AND ELEVATION
 - TERRACE TO EXISTING (3:1 MAX)
 - PROPOSED RETAINING WALL, COMPLETE WITH GUARDRAIL
 - PROPOSED GRADING TIE-IN LIMITS
 - PROPOSED BERM LIMITS
 - PROPOSED SANITARY MAINTENANCE HOLE
 - PROPOSED STORM MAINTENANCE HOLE
 - PROPOSED CATCHBASIN
 - PROPOSED CATCHBASIN MAINTENANCE HOLE
 - PROPOSED LANDSCAPE TYPE CATCHBASIN
 - PROPOSED VALVE & VALVE BOX LOCATION
 - PROPOSED HYDRANT WITH TOP OF FLANGE ELEVATION
 - DEPRESSED CURB

- GRADING AND PAVEMENT NOTES:**
- ALL TOPSOIL, ORGANIC OR DELETERIOUS MATERIAL MUST BE ENTIRELY REMOVED FROM BENEATH THE PROPOSED HARD SURFACE (i.e. PAVEMENT, CURB, SIDEWALK, ETC.) AREAS AS DIRECTED BY THE SITE ENGINEER OR GEOTECHNICAL ENGINEER.
 - EXPOSED SUBGRADES IN PROPOSED PAVED AREAS SHOULD BE HEAVILY PROOF ROLLED WITH A LARGE (10 TON) VIBRATORY STEEL DRUM ROLLER UNDER DRY CONDITIONS AND INSPECTED BY THE GEOTECHNICAL ENGINEER PRIOR TO THE PLACEMENT OF GRANULARS.
 - ANY SOFT AREAS EVIDENT FROM THE PROOF ROLLING SHOULD BE SUB-EXCAVATED AND REPLACED WITH SUITABLE MATERIAL THAT IS FROST COMPATIBLE WITH THE EXISTING SOILS AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
 - THE GRANULAR BASE SHOULD BE PLACED IN MAXIMUM 300mm LIFTS AND COMPACTED TO AT LEAST 98% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY VALUE. ANY ADDITIONAL GRANULAR FILL USED BELOW THE PROPOSED PAVEMENT SHOULD BE PLACED IN MAXIMUM 300mm LIFTS AND COMPACTED TO AT LEAST 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY VALUE.
 - ROADWAY SUBGRADE TO BE INSPECTED BY THE GEOTECHNICAL ENGINEER AT THE TIME OF CONSTRUCTION TO REVIEW IF A WOVEN GEOTEXTILE IS REQUIRED BELOW THE GRANULAR MATERIALS, AND TO CONFIRM THE DEPTH AND COMPACTION OF GRANULAR 'B'.
 - PRIOR TO PLACEMENT OF WEAR COURSE ASPHALT, THE CONTRACTOR SHALL ADJUST ALL STRUCTURES TO FINAL GRADE PER CITY OF OTTAWA STANDARDS.
 - MINIMUM OF 2% GRADE FOR ALL GRASSED AREAS UNLESS OTHERWISE NOTED.
 - MAXIMUM TERRACING GRADE TO BE 3:1 UNLESS OTHERWISE NOTED.
 - ALL GRADES BY CURBS ARE EDGE OF PAVEMENT GRADES UNLESS OTHERWISE INDICATED.
 - ALL CURBS SHALL BE BARRIER CURB UNLESS OTHERWISE NOTED AND CONSTRUCTED PER CITY OF OTTAWA STANDARD (SC1.1).
 - ALL SIDEWALKS ARE TO HAVE 2% CROSSFALL UNLESS OTHERWISE NOTED. CROSSFALL IS TO BE DIRECTED AWAY FROM BUILDINGS AND PROPERTY LINES UNLESS OTHERWISE NOTED.
 - BARRIER FREE CURB RAMP TO BE PROVIDED AS PER CITY OF OTTAWA STANDARD (SC6).
 - REFER TO LANDSCAPE PLAN FOR PLANTING AND OTHER LANDSCAPE FEATURE DETAILS.
 - CONTRACTOR TO SUBMIT SHOP DRAWINGS OF ALL TWSIS TO THE CONSULTANT.
 - ALL RETAINING WALLS TO BE DESIGNED BY STRUCTURAL ENGINEER. ANY RETAINING WALL WITH EXPOSED FACE >0.6m WILL REQUIRE A GUARDRAIL AS PER OBC. TYPICAL CROSS SECTION OF RETAINING WALL PROVIDED FOR REFERENCE. TYPE OF WALL AND RAILING TO BE CONFIRMED DURING BUILDING PERMIT PROCESS. CONTRACTOR TO PROVIDE STAMPED STRUCTURAL DRAWING FOR APPROVED RETAINING WALL AND RAILING.

- Notes:**
- RETAINING WALL AND GUARDRAIL PRODUCT TYPES TO BE DETERMINED DURING BUILDING PERMIT PROCESS.
 - CONTRACTOR TO PROVIDE SHOP DRAWING STAMPED BY A LICENSED PROFESSIONAL ENGINEER FOR THE RETAINING WALL AND THE GUARDRAIL.
 - CONTRACTOR TO REFER TO SHOP DRAWINGS AND MANUFACTURER'S DETAILS FOR BACKFILL & INSTALLATION REQUIREMENTS.
 - GEOTECHNICAL ENGINEER REQUIRED TO REVIEW RETAINING WALL BASE AND SUBBASE REQUIREMENTS.

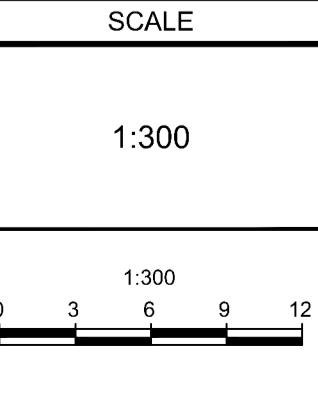


- PAVEMENT STRUCTURE:**
- ACCESS LANES
 - 40mm ASPHALT SP12.5
 - 50mm ASPHALT SP19.0
 - 150mm GRANULAR "A"
 - 450mm GRANULAR "B" TYPE II
 - 650mm TOTAL DEPTH
 - CAR ONLY PARKING AREAS
 - 50mm ASPHALT SP12.5
 - 150mm GRANULAR "A"
 - 300mm GRANULAR "B" TYPE II
 - 500mm TOTAL DEPTH

NOTE:
THE POSITION OF ALL POLE LINES, CONDUITS, WATERMANS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, DETERMINE THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND ASSUME ALL LIABILITY FOR DAMAGE TO THEM.



No.	REVISION	DATE	BY
7.	RE-ISSUED FOR SITE PLAN APPROVAL	AUG 14/23	TJM
6.	REVISED GRADES PER FORESTRY	AUG 9/23	TJM
5.	REVISED SOUTHWEST PROPERTY LINE GRADES	AUG 8/23	TJM
4.	REVISED CITY PROJECT NUMBER	JUL 14/23	TJM
3.	ISSUED FOR SITE PLAN APPROVAL - REVISED	MAY 12/23	TJM
2.	ISSUED FOR SITE PLAN APPROVAL	DEC 23/22	TJM
1.	ISSUED FOR COORDINATION	NOV 16/22	TJM



DESIGN JMR
CHECKED SAB
DRAWN JMR
CHECKED SAB
APPROVED TJM

LICENSED PROFESSIONAL ENGINEER
T. J. MCKAY
100195434
AUGUST 14, 2023
PROVINCE OF ONTARIO

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Website www.novatech-eng.com

LOCATION
CITY OF OTTAWA
1545A MERIVALE ROAD

DRAWING NAME
GRADING PLAN

PROJECT No. 122098-GR
REV 1
REV # 1
DRAWING No. 122098-GR

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