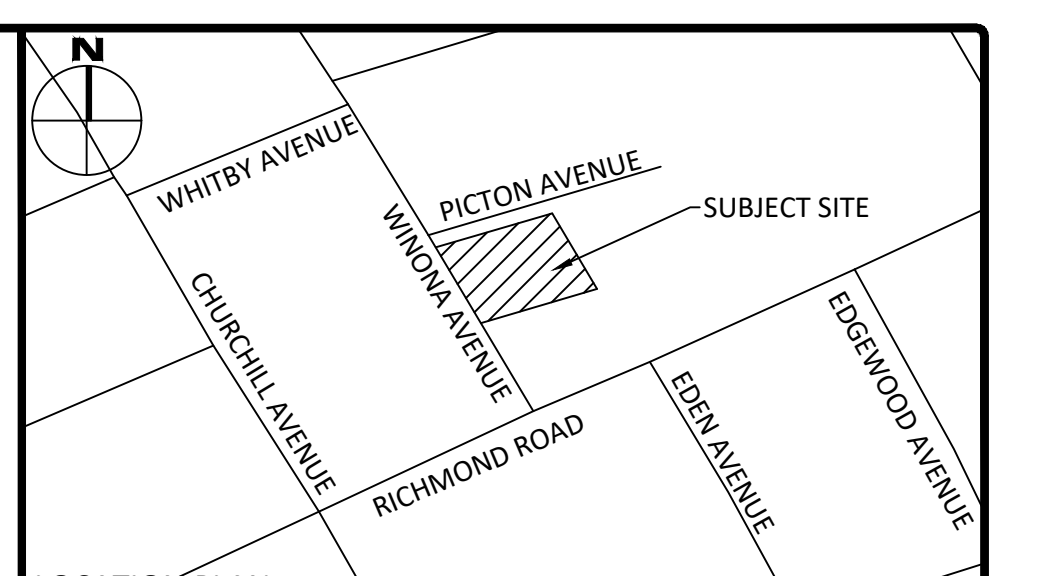


ROOF DRAIN (B1A)	
TYPE OF CONTROL DEVICE	WATTS DRAINAGE RD-100-A-ADJ (± OPEN)
NUMBER OF ROOF DRAINS	1
MAXIMUM DEPTH (m)	0.150
MAXIMUM STORAGE (m³)	7.62
STORAGE REQUIRED (m³)	5-YEAR 2.43 100-YR 5.82
STORAGE AVAILABLE (m³)	2.73 6.30
DEPTH OF FLOW (m)	0.105 0.140
FLOW PER ROOF DRAIN (L/s)	0.80 0.91
TOTAL FLOW	0.80 0.91

ROOF DRAIN (B1C)	
TYPE OF CONTROL DEVICE	WATTS DRAINAGE RD-100-A-ADJ (FULLY OPEN)
NUMBER OF ROOF DRAINS	1
MAXIMUM DEPTH (m)	0.150
MAXIMUM STORAGE (m³)	6.91
STORAGE REQUIRED (m³)	5-YEAR 3.24 100-YR 7.45
STORAGE AVAILABLE (m³)	3.51 6.91*
DEPTH OF FLOW (m)	0.115 0.150
FLOW PER ROOF DRAIN (L/s)	1.45 1.89
TOTAL FLOW	1.45 1.89

ROOF DRAIN (B1B)	
TYPE OF CONTROL DEVICE	WATTS DRAINAGE RD-100-A-ADJ (CLOSED)
NUMBER OF ROOF DRAINS	1
MAXIMUM DEPTH (m)	0.150
MAXIMUM STORAGE (m³)	7.02
STORAGE REQUIRED (m³)	5-YEAR 3.00 100-YR 6.92
STORAGE AVAILABLE (m³)	3.04 7.02
DEPTH OF FLOW (m)	0.110 0.150
FLOW PER ROOF DRAIN (L/s)	0.32 0.32
TOTAL FLOW	0.32 0.32

ROOF DRAIN (B1D)	
TYPE OF CONTROL DEVICE	WATTS DRAINAGE RD-100-A-ADJ (± OPEN)
NUMBER OF ROOF DRAINS	1
MAXIMUM DEPTH (m)	0.150
MAXIMUM STORAGE (m³)	7.64
STORAGE REQUIRED (m³)	5-YEAR 2.36 100-YR 6.18
STORAGE AVAILABLE (m³)	2.40 6.34
DEPTH OF FLOW (m)	0.100 0.140
FLOW PER ROOF DRAIN (L/s)	0.79 0.90
TOTAL FLOW	0.79 0.90



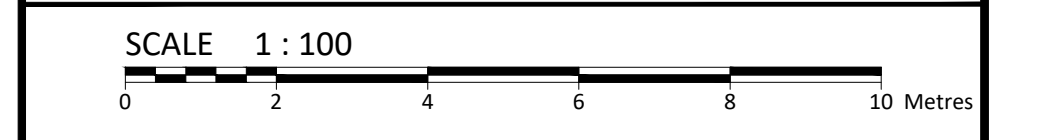
LEGEND

	CONCRETE BARRIER CURB		LIMIT OF CONSTRUCTION
	CONCRETE WALKWAY		DRAINAGE SWALE
	PROPOSED ASPHALT		DRAINAGE DITCH
	LANDSCAPING CATCHBASIN		SLOPING AT 3:1 UNLESS SPECIFIED
	CATCHBASIN MANHOLE		SURFACE ELEVATION
	SANITARY SEWER MANHOLE		SWALE ELEVATION
	FIRE HYDRANT		TOP OF WALL ELEVATION
	WATER VALVE		BOTTOM OF WALL ELEVATION
	WATER METER		OVERLAND FLOW ROUTE
	REMOTE WATER METER		SILT FENCE BARRIER
	5-YEAR PONDING LEVEL		STRAW BALE CHECK DAM
	100-YEAR PONDING LEVEL		MUD MAT
			THRUST BLOCK

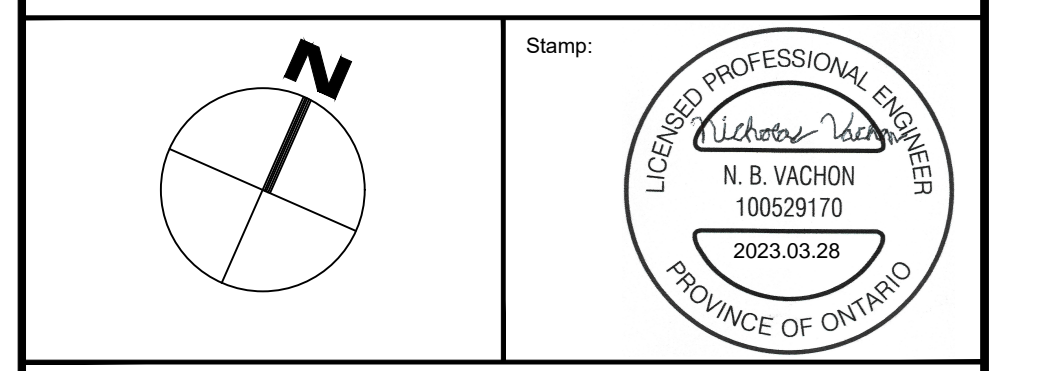
FOR REVIEW ONLY
NOT FOR CONSTRUCTION

No.	Revisions	Date
4	REVISED PER CITY COMMENTS	MAR. 28, 2023
3	REVISED PER CITY COMMENTS	FEB. 15, 2023
2	ISSUED FOR COORDINATION	FEB. 10, 2023
1	ISSUED FOR REVIEW	OCT. 13, 2022

Check and verify all dimensions before proceeding with the work. Do not scale drawings.



McINTOSH PERRY
115 Walgreen Road, RR3, Carp, ON K0A 1L0
Tel: 613-836-2184 Fax: 613-836-3742
www.mcintoshperry.com



Client: **CSV ARCHITECTS**
190 O'CONNOR STREET, SUITE 100
OTTAWA, ON K2P 2R3

Project: **MIXED USE BUILDING**
377/381 WINONA AVENUE

Drawing Title: **LOT GRADING & DRAINAGE PLAN**

Scale: 1:100	Project Number: CCO-23-1238
Drawn By: FV	Checked By: CIM
Designed By: NV	Drawing Number: C101

- GENERAL NOTES**
- THE ORIGINAL TOPOGRAPHY, GROUND ELEVATION AND SURVEY DATA SHOWN ARE SUPPLIED FOR INFORMATION PURPOSES ONLY, AND IMPLY NO GUARANTEE OF ACCURACY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL INFORMATION SHOWN.
 - THIS PLAN IS NOT A CADASTRAL SURVEY SHOWING LEGAL PROPERTY BOUNDARIES AND EASEMENTS. THE PROPERTY BOUNDARIES SHOWN HEREON HAVE BEEN DERIVED FROM INFORMATION SUPPLIED BY (OR SHOWN ON) ANNS, O'SULLIVAN, VOLLEBEK LTD. DRAWING 23018-22 AND CANNOT BE RELIED UPON TO BE ACCURATE OR COMPLETE. THE PRECISE LOCATION OF THE CURRENT PROPERTY BOUNDARIES AND EASEMENTS CAN ONLY BE DETERMINED BY AN UP-TO-DATE LAND TITLES SEARCH AND A SUBSEQUENT CADASTRAL SURVEY PERFORMED AND CERTIFIED BY AN ONTARIO LAND SURVEYOR.
 - DATUM: NAD 83 (76°30' WEST LONGITUDE) NAD-83 (ORIGINAL)
 - THE CONTRACTOR IS TO OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY BEFORE COMMENCING CONSTRUCTION.
 - THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITIES.
 - THE CONTRACTOR IS TO DETERMINE THE EXACT LOCATION, SIZE, MATERIAL AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION. PROTECT AND ASSUME ALL RESPONSIBILITY FOR EXISTING UTILITIES WHETHER OR NOT SHOWN ON THESE DRAWINGS. IF THERE IS ANY DISCREPANCY THE CONTRACTOR IS TO NOTIFY THE ENGINEER PROMPTLY.
 - RESTORE ALL TRENCHES AND SURFACES OF PUBLIC ROAD ALLOWANCES TO CONDITION EQUAL OR BETTER THAN ORIGINAL CONDITION AND TO THE SATISFACTION OF THE CITY AUTHORITIES.
 - EXCAVATE AND DISPOSE OF ALL EXCESS EXCAVATED MATERIAL, SUCH AS ASPHALT, CURBING AND DEBRIS, OFF SITE AS DIRECTED BY THE ENGINEER AND THE CITY.
 - TOPSOIL TO BE STRIPPED AND STOCKPILED FOR REHABILITATION. CLEAN FILL TO BE PLACED IN FILL AREAS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.
 - ALL DISTURBED AREAS TO BE RESTORED TO ORIGINAL CONDITION OR BETTER UNLESS OTHERWISE SPECIFIED.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL AND SAFETY MEASURES DURING THE CONSTRUCTION PERIOD, INCLUDING THE SUPPLY, INSTALLATION, AND REMOVAL OF ALL NECESSARY SIGNAGE, DELINEATORS, MARKERS AND BARRIERS.
 - DO NOT ALTER GRADING OF THE SITE WITHOUT PRIOR APPROVAL OF THE ENGINEER/CITY.
 - ALL ROADWAY, PARKING LOT, AND GRADING WORKS TO BE UNDERTAKEN IN ACCORDANCE WITH CITY STANDARDS AND SPECIFICATIONS. THE CONTRACTOR IS TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE BUILDING.
 - CONTACT THE CITY FOR INSPECTION OF ROUGH GRADING OF PARKING LOTS, ROADWAYS AND LANDSCAPED AREAS PRIOR TO PLACEMENT OF ASPHALT AND TOPSOIL. ALL DEFICIENCIES NOTED SHALL BE RECTIFIED TO THE CITY'S SATISFACTION PRIOR TO PLACEMENT OF ANY ASPHALT, TOPSOIL, SEED & MULCH AND/OR SOIL.
 - ALL DIMENSIONS AND INVERTS MUST BE VERIFIED PRIOR TO CONSTRUCTION. IF THERE IS ANY DISCREPANCY THE CONTRACTOR IS TO NOTIFY THE ENGINEER PROMPTLY.
 - ELECTRICAL, GAS, TELEPHONE AND TELEVISION SERVICE LOCATIONS ARE SUBJECT TO THE INDIVIDUAL AGENCY:
 - ELECTRICAL SERVICE - HYDRO ONE,
 - GAS SERVICE - ENBRIDGE,
 - TELEPHONE SERVICE - BELL CANADA,
 - TELEVISION SERVICE - ROGERS.
 - INSTALLATION TO BE IN ACCORDANCE WITH CURRENT CODES AND STANDARDS OF APPROVAL AGENCIES HYDRO ONE, BELL AND THE CITY.
 - CONTRACTOR TO ENSURE ALL APPLICABLE OPS SPECIFICATIONS ARE FOLLOWED DURING CONSTRUCTION.
 - ALL PROPOSED CURB TO BE CONCRETE BARRIER CURB UNLESS OTHERWISE SPECIFIED.
 - THIS PLAN MUST BE READ IN CONJUNCTION WITH THE GEOTECHNICAL INVESTIGATION COMPLETED BY PATERSON GROUP, DATED AUGUST 22, 2022.

DRAWING NO. CCO-23-1238-01, PROJECT: 377/381 WINONA AVENUE, DATE: 2023.03.28, DRAWN BY: FV, CHECKED BY: CIM, DESIGNED BY: NV, SCALE: 1:100, PROJECT NO: CCO-23-1238, DRAWING NO: CCO-23-1238-01, SHEET NO: 1 OF 1, PROJECT LOCATION: 377/381 WINONA AVENUE, OTTAWA, ONTARIO, PROJECT CLIENT: CSV ARCHITECTS, PROJECT TITLE: MIXED USE BUILDING, DRAWING TITLE: LOT GRADING & DRAINAGE PLAN, DRAWING NUMBER: C101, PROJECT NUMBER: CCO-23-1238, SCALE: 1:100, DATE: 2023.03.28, DRAWN BY: FV, CHECKED BY: CIM, DESIGNED BY: NV.

D07-12-22-0154