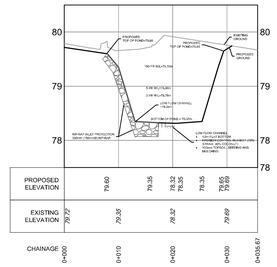
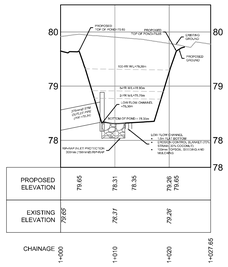


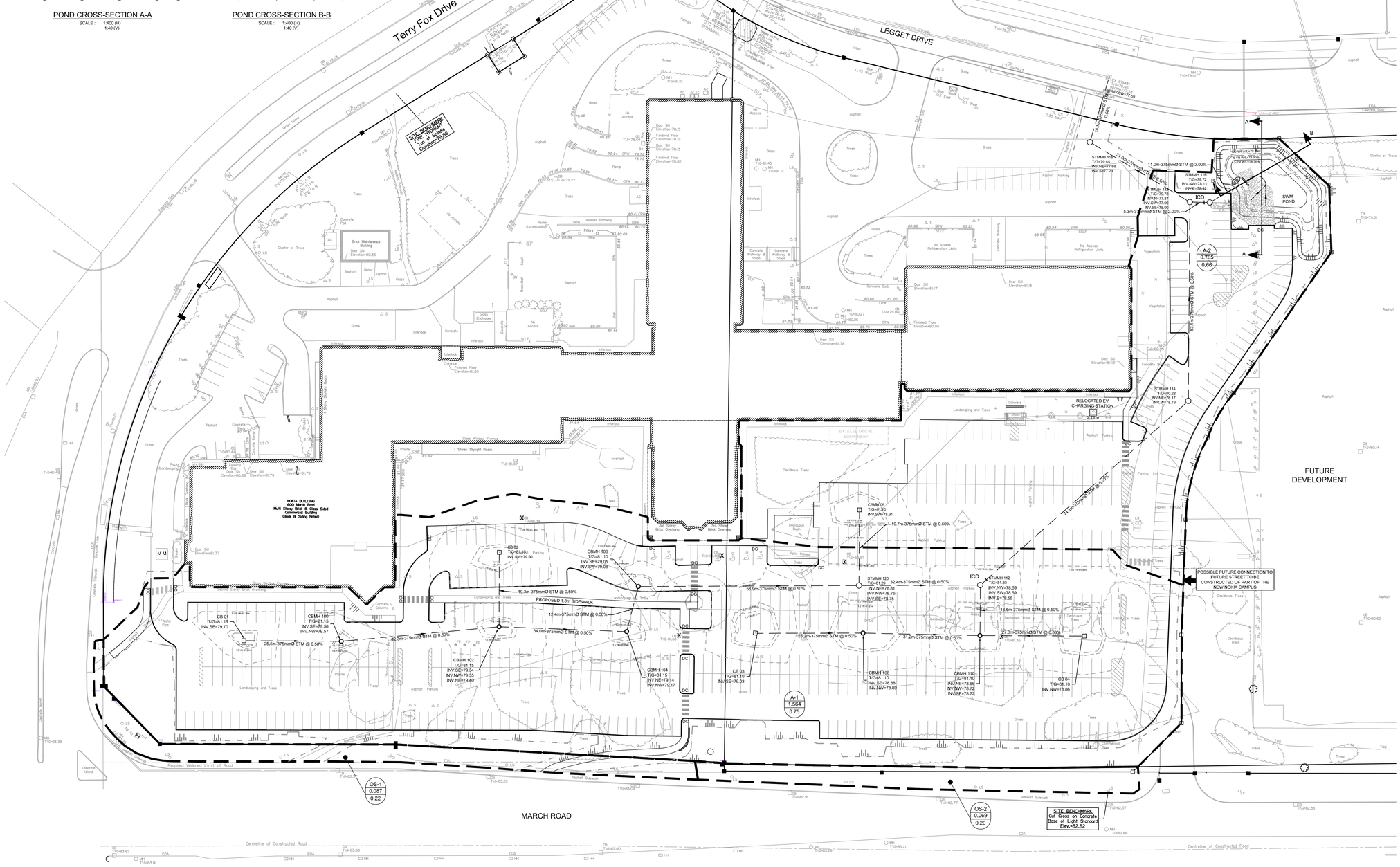
POND CROSS-SECTION A-A

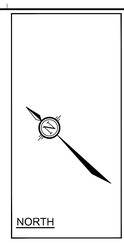
SCALE : 1:400 (H)
1:40 (V)

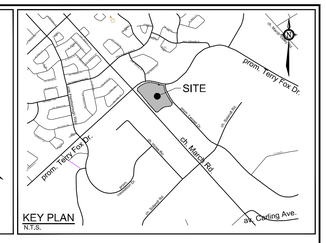


POND CROSS-SECTION B-B

SCALE : 1:400 (H)
1:40 (V)







KEY PLAN
N.T.S.

LEGEND

	PROPOSED BARRIER CURB		PROPOSED BUILDING ENTRANCE / EXIT
DC	PROPOSED DEPRESSED CURB		MAXIMUM 3:1 SIDESLOPE
	DRAINAGE AREA LIMITS	FFE	FINISHED FLOOR ELEVATION
1.2 YR / 1.5 YR / 1:100 YR	APPROXIMATE PONDING LIMITS	USF	UNDERSIDE OF FOOTING ELEVATION
A-2 / 0.129 / 0.82	POST-DEVELOPMENT AREA ID / POST-DEVELOPMENT DRAINAGE AREA (ha) / 1.5 YEAR WEIGHTED RUNOFF COEFICIENT	STM MH	EXISTING STORM MH & SEWER
CBMH	PROPOSED CATCHBASIN MANHOLE	CB	EXISTING CATCHBASIN C/W CATCHBASIN LEAD
CB	PROPOSED CATCHBASIN		EXISTING CONCRETE CURB
	PROPOSED STORM SEWER AND FLOW DIRECTION	VB/VB	EXISTING VALVE & VALVE BOX
ICD	PROPOSED INLET CONTROL DEVICE	SP	EXISTING SERVICE POST
	EMERGENCY OVERLAND FLOW ROUTE	HYD	EXISTING HYDRANT
		CBMH	EXISTING CATCHBASIN
		CB	EXISTING CATCHBASIN MH
		EX UP	EXISTING UTILITY POLE C/W GUY WIRES

GENERAL NOTES:

1. COORDINATE AND SCHEDULE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
2. DETERMINE THE EXACT LOCATION, SIZE, MATERIAL AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION. PROTECT AND ASSUME RESPONSIBILITY FOR ALL EXISTING UTILITIES WHETHER OR NOT SHOWN ON THIS DRAWING.
3. OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF OTTAWA BEFORE COMMENCING CONSTRUCTION.
4. BEFORE COMMENCING CONSTRUCTION OBTAIN AND PROVIDE PROOF OF COMPREHENSIVE, ALL RISK AND OPERATIONAL LIABILITY INSURANCE FOR $5,000,000.00. INSURANCE POLICY TO NAME OWNERS, ENGINEERS AND ARCHITECTS AS CO-INSURED.
5. COMPLETE ALL WORKS IN ACCORDANCE WITH THE MOST CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS USING THE CURRENT GUIDELINES, BYLAWS AND STANDARDS INCLUDING MATERIALS OF CONSTRUCTION, DISINFECTION AND ALL RELEVANT REFERENCES TO OPSS, OPSD & AWWA GUIDELINES - ALL CURRENT VERSIONS AND 'AS AMENDED.
6. RESTORE ALL DISTURBED AREAS ON-SITE AND OFF-SITE, INCLUDING TRENCHES AND SURFACES ON PUBLIC ROAD ALLOWANCES TO EXISTING CONDITIONS OR BETTER TO THE SATISFACTION OF THE CITY OF OTTAWA AND ENGINEER.
7. REMOVE FROM SITE ALL EXCESS EXCAVATED MATERIAL, ORGANIC MATERIAL AND DEBRIS UNLESS OTHERWISE INSTRUCTED BY ENGINEER. EXCAVATE AND REMOVE FROM SITE ANY CONTAMINATED MATERIAL. ALL CONTAMINATED MATERIAL SHALL BE DISPOSED OF AT A LICENSED LANDFILL FACILITY.
8. ALL ELEVATIONS ARE GEODETIC.
9. REFER TO THE GEOTECHNICAL INVESTIGATION AND HYDROGEOLOGICAL ASSESSMENT - 600 MARCH ROAD - (REPORT NO. 1206987(-REP-1-), PREPARED BY GHD ON JUNE 16, 2023, FOR SUBSURFACE CONDITIONS, CONSTRUCTION RECOMMENDATIONS, AND GEOTECHNICAL INSPECTION REQUIREMENTS. THE GEOTECHNICAL CONSULTANT IS TO REVIEW ON-SITE CONDITIONS AFTER EXCAVATION PRIOR TO PLACEMENT OF THE GRANULAR MATERIAL.
10. REFER TO ARCHITECT'S AND LANDSCAPE ARCHITECT'S DRAWINGS FOR BUILDING AND HARDSURFACE AREAS AND DIMENSIONS.
11. REFER TO THE STORMWATER MANAGEMENT REPORT (R-2023-143) PREPARED BY NOVATECH.
12. SAW CUT AND KEY GRIND ASPHALT AT ALL ROAD CUTS AND ASPHALT TIE IN POINTS AS PER CITY OF OTTAWA STANDARDS (R10).

BENCHMARK NOTES:

1. ELEVATIONS SHOWN ARE GEODETIC AND ARE REFERRED TO THE CGVD28 GEODETIC DATUM.
2. IT IS THE RESPONSIBILITY OF THE USER OF THIS INFORMATION TO VERIFY THAT THE JOB BENCHMARK HAS NOT BEEN ALTERED OR DISTURBED AND THAT IT'S RELATIVE ELEVATION AND DESCRIPTION AGREES WITH THE INFORMATION SHOWN ON THIS DRAWING.
3. BENCHMARK WAS PROVIDED ON SURVEYOR'S REAL PROPERTY REPORT PART 1, PLAN OF PART OF LOT 5, CONCESSION 2 (OTTAWA FRONT) GEOGRAPHIC TOWNSHIP OF GLOUCESTER, CITY OF OTTAWWA, SURVEYED BY ANNIS, O'SULLIVAN AND VOLEBEKK LTD.

INLET CONTROL DEVICE DATA TABLE: AREA A-1 (INCL. AREAS OS-1 & OS-2)

DESIGN EVENT	ICD TYPE (PLUG TYPE)	OUTLET STRUCTURE	DIAMETER OF OUTLET PIPE (mm)	PEAK DESIGN FLOW (L/s)	DESIGN HEAD (m)	WATER ELEVATION (m)	VOLUME (m^3)	AVAILABLE STORAGE
1.2 YR	167mm DIA. ORIFICE PLUG TYPE ICD	STMMH 112	375mmØ PVC	94.4	2.48	81.21	196.6	1001.1 m^3
1.5 YR				94.6	2.48	81.23	242.2	
1:100 YR				97.6	2.63	81.38	892.1	

INLET CONTROL DEVICE DATA TABLE: AREA A-2 (POND)

DESIGN EVENT	ICD TYPE (PLUG TYPE)	OUTLET STRUCTURE	DIAMETER OF OUTLET PIPE (mm)	PEAK DESIGN FLOW (L/s)	DESIGN HEAD (m)	WATER ELEVATION (m)	VOLUME (m^3)	AVAILABLE STORAGE
1.2 YR	118mm DIA. ORIFICE PLUG TYPE ICD	STMMH 118	375mmØ PVC	20.4	0.48	78.76	87.3	406.3 m^3
1.5 YR				23.3	0.60	78.90	124.1	
1:100 YR				30.1	1.00	79.30	268.7	

NOTE:
THE POSITION OF ALL POLE LINES, CONDUITS, WATERMAINS, 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.

OWNER INFORMATION
NOKIA c/o COLLIERS
181 BAY STREET, SUITE 1400
TORONTO, ONTARIO, M5J 2V1

ERIK CUNNINGTON
PHONE: (416) 920-0155
EMAIL: erik.cunnington@colliers.com

No.	REVISION	DATE	BY
2.	ISSUED FOR SPC APPROVAL	NOV 7/23	FST
1.	PRELIMINARY PLANS ISSUED TO CITY	OCT 02/23	FST

SCALE 1:400

DESIGN ZA
CHECKED FST
DRAWN ZA
CHECKED FST
APPROVED FST

FOR REVIEW ONLY

LICENSED PROFESSIONAL ENGINEER
F.S. THAUVETTE
100041399
November 7, 2023
PROVINCE OF ONTARIO

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Ottawa, Ontario, Canada K2M 1P6
Telephone (613) 254-9643
Facsimile (613) 254-5867
Website www.novatech-eng.com

LOCATION
CITY OF OTTAWA
600 MARCH ROAD - NOKIA PARKING LOT EXPANSION

DRAWING NAME
POST-DEVELOPMENT STORMWATER MANAGEMENT PLAN

PROJECT No. 121334
REV REV # 2
DRAWING No. 121334-SWM

PLANNED SIZE - 711(H)x432(V) MM