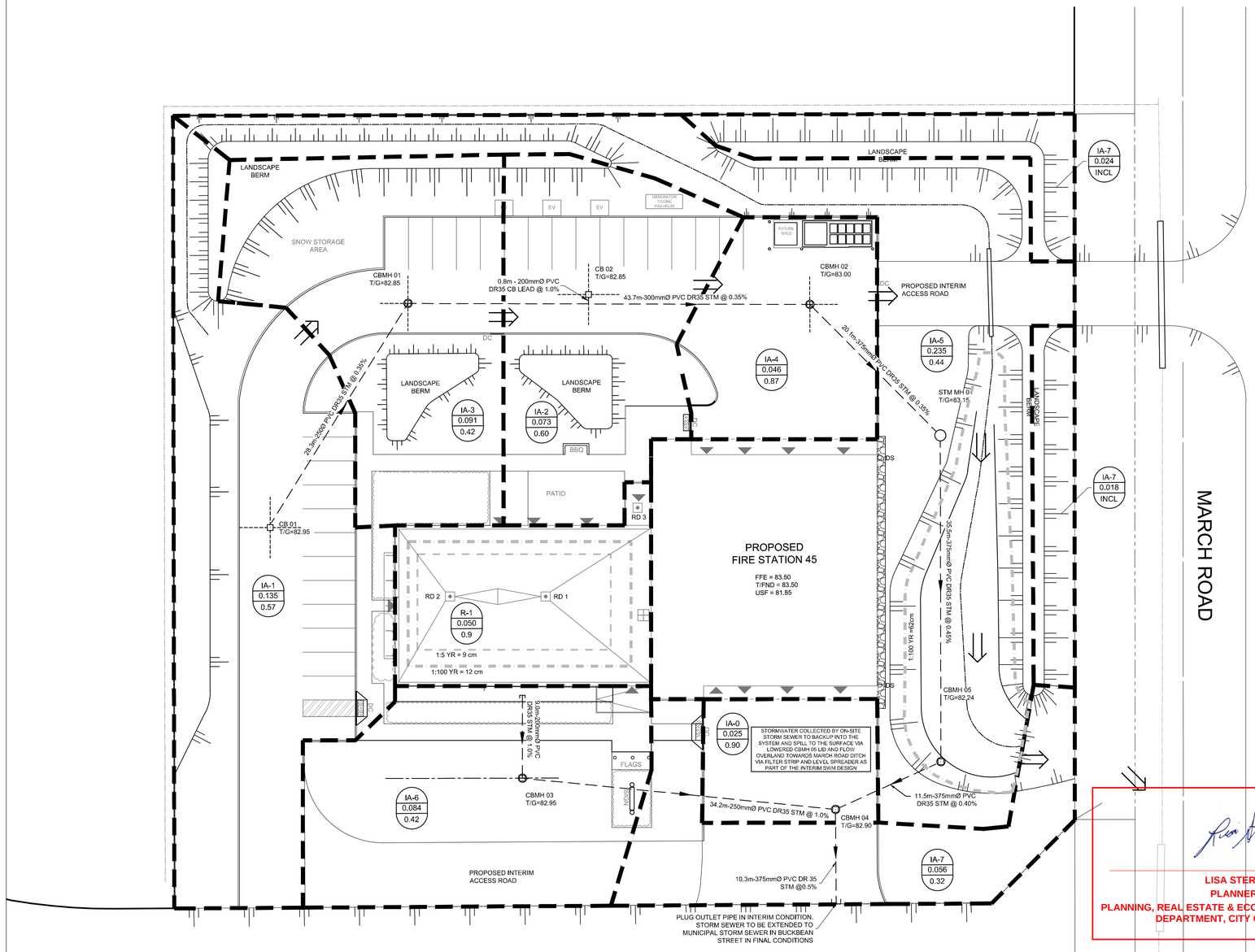
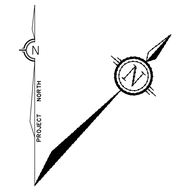
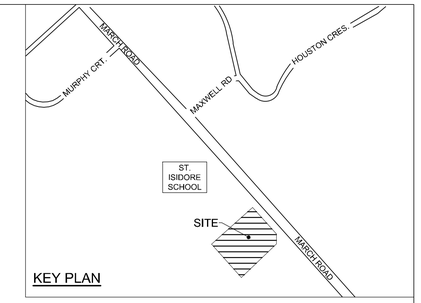
LEGEND

	PROPOSED BARRIER CURB	SAN MH 01	PROPOSED SANITARY MANHOLE	T/FND	TOP OF FOUNDATION WALL ELEVATION	CBMH	EXISTING CATCHBASIN
DC	PROPOSED DEPRESSED CURB	STM MH 03	PROPOSED STORM MANHOLE	USF	UNDERSIDE OF FOOTING ELEVATION	CB	EXISTING CATCHBASIN MH
	DRAINAGE AREA LIMITS	HYD / VB	PROPOSED HYDRANT AND VALVE		BUILDING ENTRANCE / EXIT	EX UP	EXISTING UTILITY POLE C/W GUY WIRES
A-1 0.114 0.80	POST-DEVELOPMENT AREA ID	CBMH 01	PROPOSED CATCHBASIN MANHOLE		EXISTING CONCRETE CURB	1:5 YR / 1:100 YR	APPROXIMATE PONDING LIMITS
	POST-DEVELOPMENT DRAINAGE AREA (ha)	CB 02	PROPOSED CATCHBASIN	V&VB	EXISTING VALVE & VALVE BOX		
	1:5 YEAR WEIGHTED RUNOFF COEFICIENT		EMERGENCY OVERLAND FLOW ROUTE	SP	EXISTING SERVICE POST		
	MAXIMUM 3:1 SIDESLOPE		PROPOSED HYDRO TRANSFORMER	HYD	EXISTING HYDRANT		
83.50	PROPOSED TERRACE ELEVATION	FFE	FINISHED FLOOR ELEVATION				







KEY PLAN

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 GEOTECHNICAL INVESTIGATION REPORT (Ref.No.: PG5321-1, DATED JAN 20, 2021), PREPARED BY PATERSON GROUP INC., 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 DEVELOPMENT SERVICING STUDY AND STORMWATER MANAGEMENT REPORT(R-2022-090) 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).

PROPOSED SITE FLOWS & STORMWATER MANAGEMENT TABLE

DESIGN EVENT	PRE-DEVELOPMENT CONDITIONS	POST-DEVELOPMENT CONDITIONS - INTERIM CONDITIONS					
	ALLOWABLE RELEASE RATE (L/s)	IA-0 TO IA-6 CONTROLLED FLOW (L/s)	IA-7 DIRECT RUNOFF (L/s)	R-1 CONTROLLED FLOW (L/s)	TOTAL FLOW (L/s)	TOTAL REQUIRED STORAGE (m3)	REDUCTION IN FLOW (L/s or %)
1:2 YR	35.7	10.3	6.6	1.8	18.7	55.4	17.0 or 47%
1:5 YR	48.5	12.2	9.0	2.4	23.6	78.4	24.9 or 51&
1:100 YR	103.9	16.3	18.2	3.3	37.8	172.6	66.1 or 64%

PROPOSED ROOF DRAIN TABLE: AREA R-1 (RD1, RD2 AND RD3)

AREA ID *	ROOF DRAIN No. (WATTS MODEL)	ROOF DRAIN OPENING SETTING	1:5 YEAR RELEASE RATE	APPROX. 5-YR PONDING DEPTH	1:100 YEAR RELEASE RATE	APPROX. 100-YR PONDING DEPTH
R-1	RD 1 (RD-100-A-ADJ)	FULLY EXPOSED	1.07 L/s	9 cm	1.39 L/s	12 cm
R-1	RD 2 (RD-100-A-ADJ)	FULLY EXPOSED	1.07 L/s	9 cm	1.39 L/s	12 cm
R-1	RD 3 (RD-100-A-ADJ)	-	0.26 L/s	-	0.50 L/s	-

* REFER TO THE 'DEVELOPMENT SERVICING STUDY AND STORMWATER MANAGEMENT REPORT' (R-2022-090) PREPARED BY NOVATECH FOR DRAINAGE AREA IDENTIFIERS AND STORMWATER MANAGEMENT DETAILS.

LISA STERN
PLANNER
PLANNING, REAL ESTATE & ECONOMIC DEVELOPMENT DEPARTMENT, CITY OF OTTAWA

APPROVED
By Lisa Stern at 12:20 pm, Dec 21, 2022

Ottawa

PLANNING AND INFRASTRUCTURE PORTFOLIO
INFRASTRUCTURE SERVICES DEPARTMENT
DESIGN AND CONSTRUCTION - BUILDINGS & PARKS BRANCH

PORTEFEUILLE DE L'URBANISME ET DE L'INFRASTRUCTURE
DÉPARTEMENT DES SERVICES D'INFRASTRUCTURE
DIRECTION DE CONCEPTION ET DE CONSTRUCTION - IMMEUBLES ET DES PARCS

FOR / POUR
INFRASTRUCTURE SERVICES & COMMUNITY SUSTAINABILITY
INFRASTRUCTURE SERVICES
DESIGN & CONST. - BUILDINGS & PARKS

1:250
0 2 4 6 8 10

NOVATECH
Engineers, Planners & Landscape Architects
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Ottawa, Ontario, Canada K2M 1P6
Telephone (613) 254-9643
Facsimile (613) 254-5867
Website www.novatech-eng.com

NUMBER/ NUMÉRO	MILESTONE / ÉTAPE JALON	DATE: (Y/M/D) (A/M/J)	INITIALS INITIALES
1	ISSUED FOR SITE PLAN APPROVAL	22/12/09	FST

DESIGNED BY / TODKOU PAR: FST/DMM
CHECKED BY / VERIFIÉ PAR: FST
DRAWN BY / DESSINÉ PAR: DMM
SCALE / ÉCHELLE: 1:250

DETAIL NUMBER / DRAWING TITLE / SCALE / SHEET NUMBER: 1 / A1.1

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ARCHITECT / ARCHITECTE

CONSULTANT / EXPERT-CONSEIL

LICENSED PROFESSIONAL ENGINEER
F.S. THAUVETTE
100041399
DEC 09, 2022
PROVINCE OF ONTARIO

CONSULTANT / EXPERT-CONSEIL

CONSULTANT / EXPERT-CONSEIL

PROJECT / LOCATION / PROJET / ENDROIT

FIRE STATION 45

1075-A MARCH ROAD
OTTAWA, ONTARIO

DRAWING / DESSIN

STORMWATER MANAGEMENT PLAN
INTERIM CONDITIONS

BUSINESS ENTITY / NUMÉRO DE L'ENTITÉ
BUILDING NUMBER / NUMÉRO DU BÂTIMENT

SHEET NO. / FEUILLE No.
C3.0

CITY PROJECT NO. / NUMÉRO DE PROJET

CONS_PROJECT NO. / NUMÉRO DE PROJET
122089

D07-12-22-0090

PLAN #18766

LEGEND

	PROPOSED BARRIER CURB	SAN MH 01	PROPOSED SANITARY MANHOLE	T/FND	TOP OF FOUNDATION WALL ELEVATION	CBMH	EXISTING CATCHBASIN
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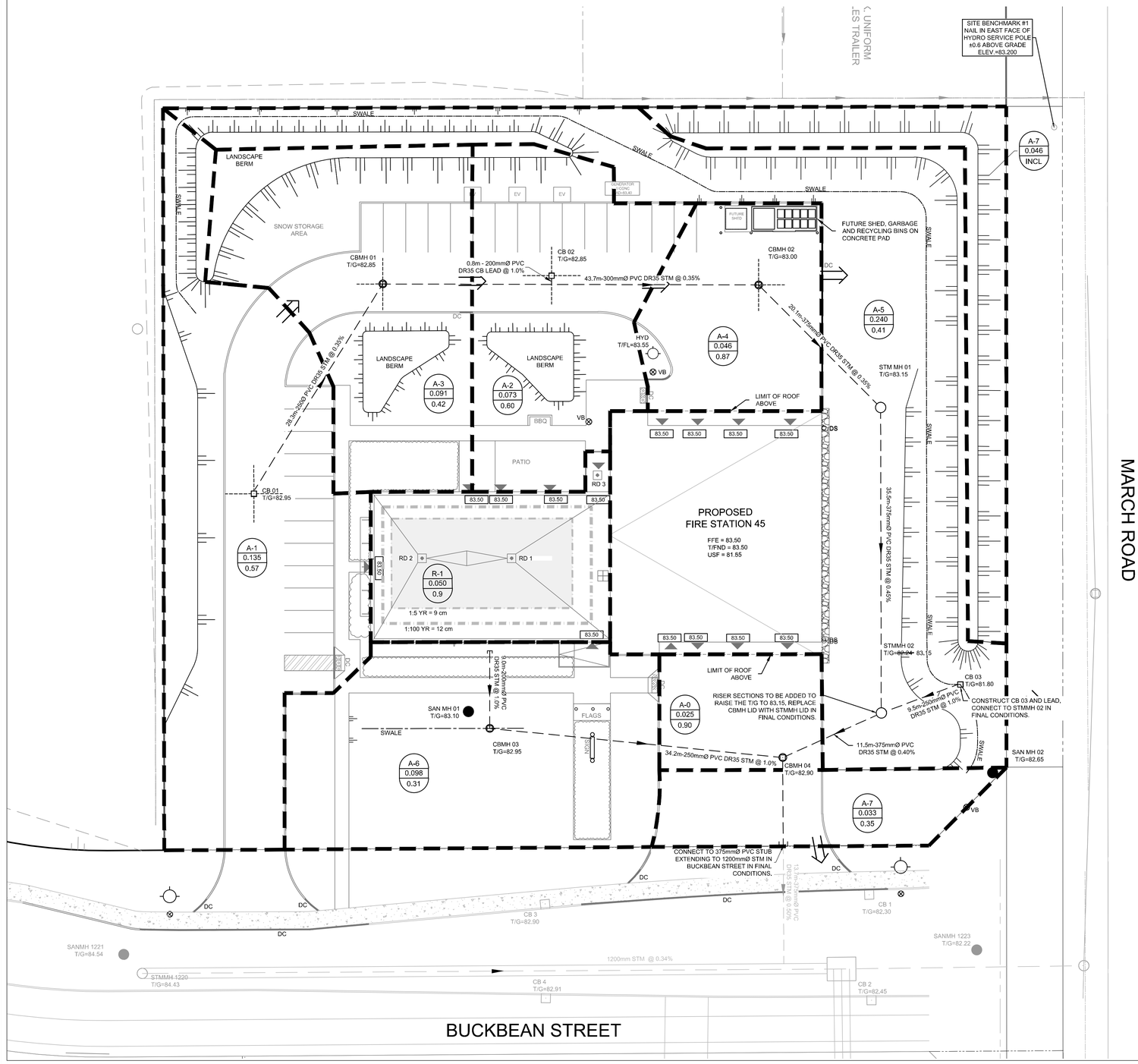

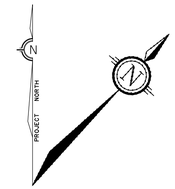

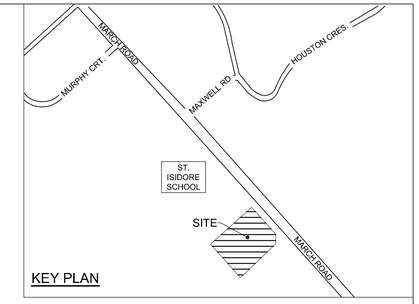

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DESIGN EVENT	PRE-DEVELOPMENT CONDITIONS	POST-DEVELOPMENT CONDITIONS				
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1:5 YR	221.9	101.8	8.1	2.4	112.3	109.6 or 49%
1:100 YR		119.6	16.2	3.3	219.1	2.8 or 1.2%

PROPOSED ROOF DRAIN TABLE: AREA R-1 (RD1, RD2 AND RD3)

AREA ID *	ROOF DRAIN No. (WATTS MODEL)	ROOF DRAIN OPENING SETTING	1:5 YEAR RELEASE RATE	APPROX. 5-YR PONDING DEPTH	1:100 YEAR RELEASE RATE	APPROX. 100-YR PONDING DEPTH
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LISA STERN
PLANNER
PLANNING, REAL ESTATE & ECONOMIC DEVELOPMENT DEPARTMENT, CITY OF OTTAWA

APPROVED
By Lisa Stern at 12:21 pm, Dec 21, 2022

Ottawa

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INFRASTRUCTURE SERVICES DEPARTMENT
DESIGN AND CONSTRUCTION - BUILDINGS & PARKS BRANCH

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FOR / POUR
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INFRASTRUCTURE SERVICES
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1:250
0 2 4 6 8 10

NOVATECH
Engineers, Planners & Landscape Architects
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Ottawa, Ontario, Canada K2M 1P6
Telephone (613) 254-9643
Facsimile (613) 254-5867
Website www.novatech-eng.com

NUMBER/ NUMÉRO	MILESTONE / FAIT SAILLANT	DATE: (Y/M/D) (A/M/J)	INITIALS INITIALES
5	ISSUED FOR SITE PLAN APPROVAL	22/12/09	FST
4	ISSUED FOR 99% REVIEW	22/06/29	FST
3	REVISED PER CITY COMMENTS	22/06/03	FST
2	ISSUED FOR 30% REVIEW	22/06/20	FST
1	ISSUED FOR SPC APPROVAL	22/05/20	FST

DESIGNED BY / CONCU PAR: FST/DMM	CHECKED BY / VÉRIFIÉ PAR: FST
DRAWN BY / DESSINÉ PAR: DMM	SCALE / ÉCHELLE: 1:250

DETAIL NUMBER / 1 / A1.1 / DRAWING TITLE / SCALE / SHEET NUMBER

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CONSULTANT / EXPERT-CONSEIL

LICENSED PROFESSIONAL ENGINEER
F.S. THAUVETTE
100041399
DEC 09, 2022
PROVINCE OF ONTARIO

CONSULTANT / EXPERT-CONSEIL

CONSULTANT / EXPERT-CONSEIL

PROJECT / LOCATION / PROJET / ENDROIT

FIRE STATION 45

1075-A MARCH ROAD
OTTAWA, ONTARIO

DRAWING / DESSIN

STORMWATER MANAGEMENT PLAN
FINAL CONDITIONS

BUSINESS ENTITY / NUMÉRO DE L'ENTITÉ
BUILDING NUMBER / NUMÉRO DU BÂTIMENT

CITY PROJECT NO. / NUMÉRO DE PROJET

CONS_PROJECT NO. / NUMÉRO DE PROJET: 122089

SHEET NO. / FEUILLE No.: **C3.1**

D07-12-22-0090

PLAN #18766