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**PROJECT:**

**LIB KANATA  
KANATA AVENUE AND MARITIME WAY  
CITY OF OTTAWA, ONTARIO**

**PROJECT NO:**

**600401**

**DATE:**

**2023-06-14**

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160, boulevard de l'Hôpital, Gatineau (Québec) J8T 8J1  
T 819 303 2700  
info@equipelaurence.ca | equipelaurence.ca

**LIB KANATA - KANATA AVENUE AND MARITIME WAY  
PROJET 600401 - PLANS ÉMIS FOR SITE PLAN APPLICATION RÉVISION 10, LE 2023-06-14**

D07-12-21-0163





EXISTING POWER DUCT BANK, WATERMAN, STORM SEWER AND SANITARY SEWER FROM OTTAWA COORDINATING COMMITTEE CENTRAL REGISTRY AND CITY OF KANATA DEPARTMENT OF ENGINEERING

SURVEY AND LOTS INFORMATION PROVIDED BY FARLEY, SMITH & DENNIS SURVEYING LTD. DATE: SEPTEMBER 13 2021 FILE NO.: 139-21 PLANIMETRIC REFERENCE SYSTEM: MTM NAD 83 ZONE 9 ALTIMETRIC REFERENCE SYSTEM: CGVD28 HT2.0

SITE PLAN PREPARED BY ROSSMANN ARCHITECTURE DATE: FEBRUARY 16 2023 PROJECT: 21019

*Allison Hamlin*

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



**NOTE:**  
THE EXISTING AND PROPOSED SUBMISSION WILL HAVE TO BE VALIDATED BY THE SURVEYOR/GEODEMETER ON FILE.

**UNLESS OTHERWISE STATED, ALL PROPOSED ELEVATIONS SHOWN ON PLAN REPRESENT THE ELEVATION OF THE PAVEMENT SURFACE /PROJECTED TERRAIN. ADD 0.15m TO SEE THE ELEVATION OF THE SIDEWALK OR ADJACENT**

**THE CONTRACTOR MUST NOTIFY ÉQUIPE LAURENCE, THE CONSULTANT, IF HE NOTICES ANY DISCREPANCIES BETWEEN THE INFORMATION PRESENTED ON THE PLANS AND THE MEASUREMENTS TAKEN ON SITE SO THAT ADJUSTMENTS CAN BE MADE. WHEN APPLICABLE, HE MUST ALSO VERIFY THE ELEVATIONS OF EXISTING SEWERS BEFORE STARTING CONSTRUCTION AND MUST PROVIDE THE INFORMATION TO THE CONSULTANT.**

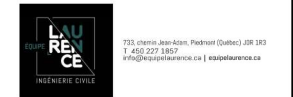
**ADDITIONAL LEGEND**

- 36.30% X PROPOSED ELEVATION
- 36.40% X PROPOSED ELEVATION OF CONCRETE CURB
- 36.45% X PROPOSED ELEVATION OF CONCRETE SLAB
- 36.46% X PROPOSED TOP ELEVATION OF GRASS
- 36.46% X PROPOSED TOP ELEVATION OF SIDEWALK
- 36.46% X PROPOSED TOP ELEVATION OF RETAINING WALL
- 36.46% X PROPOSED BOTTOM ELEVATION OF RETAINING WALL
- 36.50 EXISTING ELEVATION OF SURFACE
- 36.50 ELEVATION OF FUTURE ROADWAY BY OTHER
- 3.00% GRADING SLOPES NORTH

NO	DESCRIPTION	BY	DATE
1	FOR SITE PLAN APPLICATION REVISION 10	B.B.	2023-09-14
2	FOR ADJUDICATION CO1	B.B.	2023-09-18
D	ISSUED FOR CONSTRUCTION REV. 00	B.B.	2023-09-17
J	FOR SITE PLAN APPLICATION REVISION 9	B.B.	2023-09-15
I	FOR SITE PLAN APPLICATION REVISION 8	B.B.	2023-09-08
G	FOR SITE PLAN APPLICATION REVISION 7	B.B.	2023-09-02
H	FOR SITE PLAN APPLICATION REVISION 6	A.L.	2022-09-16
F	FOR SITE PLAN APPLICATION REVISION 5	A.L.	2022-07-13
E	FOR SITE PLAN APPLICATION REVISION 4	A.L.	2022-07-07
D	FOR SITE PLAN APPLICATION REVISION 3	A.L.	2022-06-23
C	FOR SITE PLAN APPLICATION REVISION 2	A.L.	2022-12-07
B	FOR SITE PLAN APPLICATION REVISION 1	A.L.	2021-09-24
A	FOR SITE PLAN APPLICATION	A.L.	2021-09-17



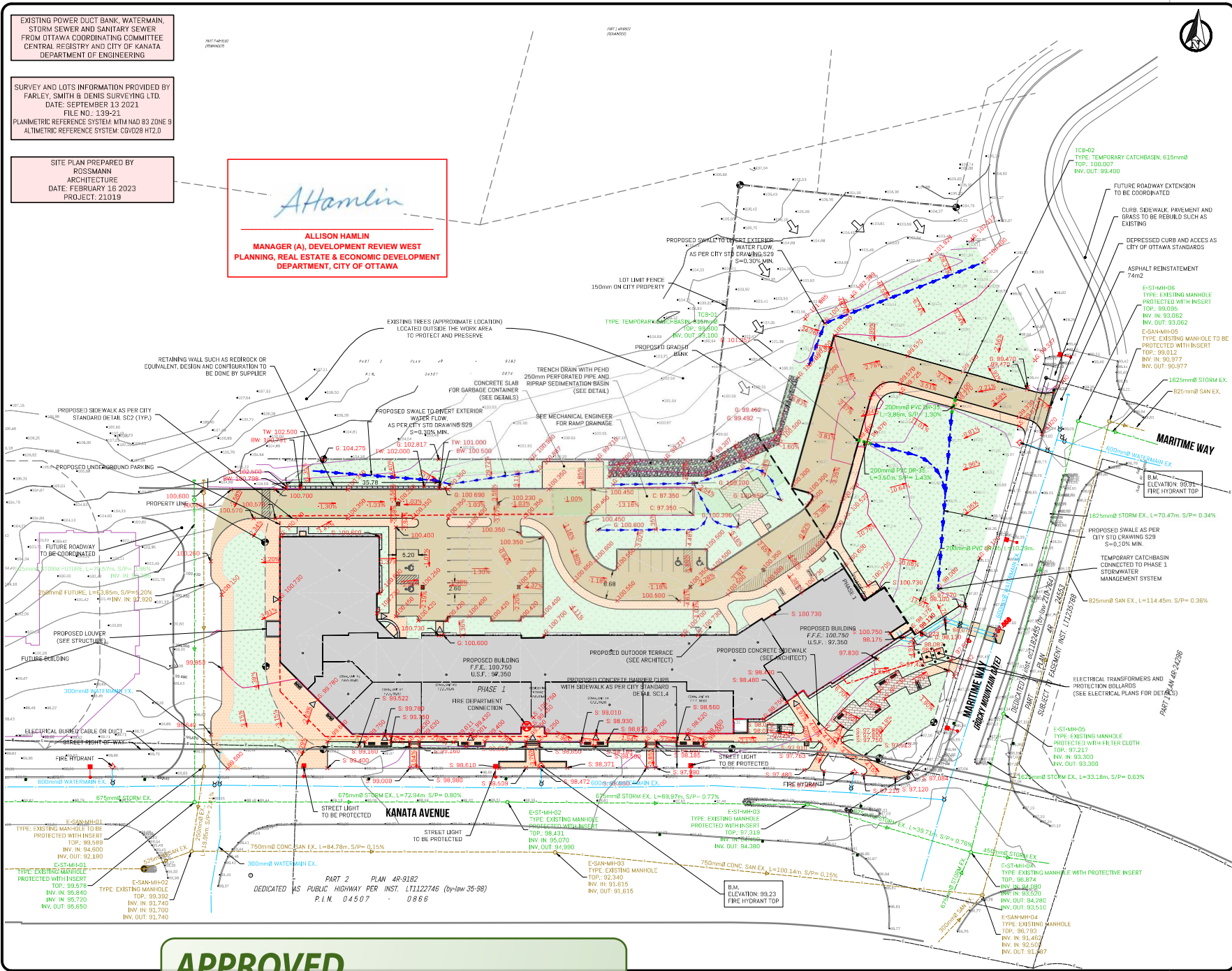
**LIB KANATA  
KANATA AVENUE AND MARITIME WAY  
CITY OF OTTAWA, ONTARIO**



**SITE GRADING AND DRAINAGE PLAN  
PHASE 1**



B. BRAY, Ing., P. Eng. / P. Licencia CPE	C-203A.dwg
DESIGN	2023-09-15
DATE	2023-09-15
DATE	2023-09-15
B. BRAY, Ing., P. Eng.	600401
PROJECT NO.	C-203A
APPROVED	PLAN NO.



**APPROVED**  
By Allison Hamlin at 4:58 pm, Feb 07, 2024

\\s01\proj\000072\plan\CC-203A.dwg, 2023-05-14 9:08:19 AM, bbray

007-12-21-0163

EXISTING POWER DUCT BANK, WATERMAN, STORM SEWER AND SANITARY SEWER FROM OTTAWA COORDINATING COMMITTEE CENTRAL REGISTRY AND CITY OF KANATA DEPARTMENT OF ENGINEERING

SURVEY AND LOTS INFORMATION PROVIDED BY FARLEY, SMITH & DENNIS SURVEYING LTD. DATE: SEPTEMBER 13 2021 FILE NO.: 139-21 PLANIMETRIC REFERENCE SYSTEM: MTM NAD 83 ZONE 9 ALTIMETRIC REFERENCE SYSTEM: CGVD2011

SITE PLAN PREPARED BY ROSSMANN ARCHITECTURE DATE: FEBRUARY 16 2023 PROJECT: 21019

*All Hamlin*

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



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**ADDITIONAL LEGEND**

- 26.50% X PROPOSED ELEVATION
- 26.50% X PROPOSED ELEVATION OF CONCRETE CURB
- 26.50% X PROPOSED ELEVATION OF CONCRETE SLAB
- 26.50% X PROPOSED TOP ELEVATION OF GRASS
- 26.50% X PROPOSED TOP ELEVATION OF SIDEWALK
- 26.50% X PROPOSED TOP ELEVATION OF RETAINING WALL
- 26.50% X PROPOSED BOTTOM ELEVATION OF RETAINING WALL
- 26.50% X EXISTING ELEVATION OF SURFACE
- 26.50% X ELEVATION OF FUTURE ROADWAY BY OTHER
- 26.50% X GRADING SLOPES
- 26.50% X NORTH

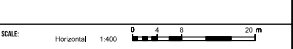
REV.	DESCRIPTION	BY	DATE
1	FOR SITE PLAN APPLICATION REVISION 10	B.B.	2023-09-14
2	FOR SITE PLAN APPLICATION REVISION 01	B.B.	2023-06-08
D	ISSUED FOR CONSTRUCTION REV. 00	B.B.	2023-05-17
J	FOR SITE PLAN APPLICATION REVISION 9	B.B.	2023-09-15
I	FOR SITE PLAN APPLICATION REVISION 8	B.B.	2023-09-03
H	FOR SITE PLAN APPLICATION REVISION 7	B.B.	2023-02-02
G	FOR SITE PLAN APPLICATION REVISION 6	A.L.	2022-09-16
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C	FOR SITE PLAN APPLICATION REVISION 2	A.L.	2022-12-07
B	FOR SITE PLAN APPLICATION REVISION 1	A.L.	2022-09-21
A	FOR SITE PLAN APPLICATION	A.L.	2022-09-17



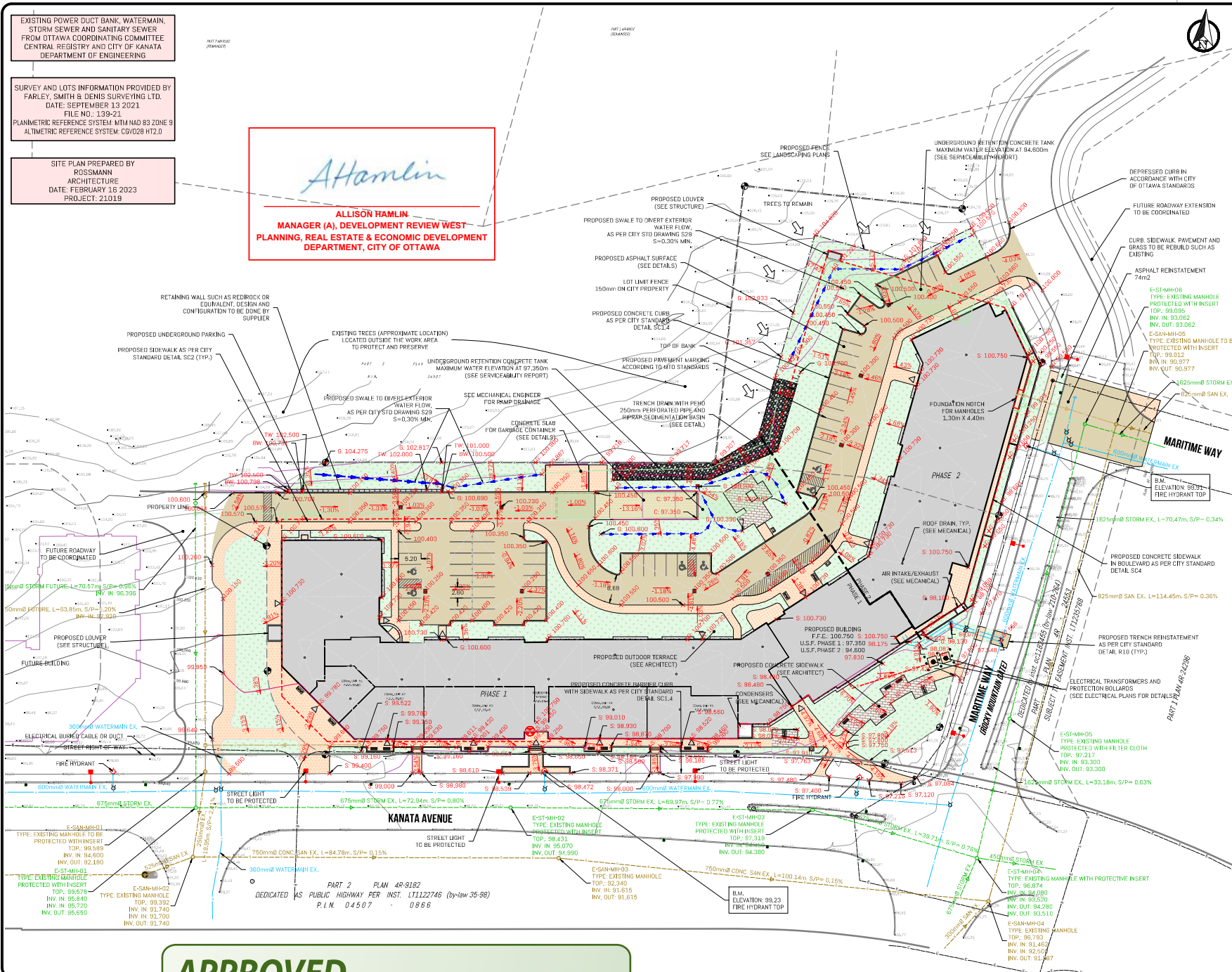
**CLIENT:**  
LIB KANATA  
KANATA AVENUE AND MARITIME WAY  
CITY OF OTTAWA, ONTARIO



**TITLE:**  
SITE GRADING AND DRAINAGE PLAN  
PHASE 1 AND 2



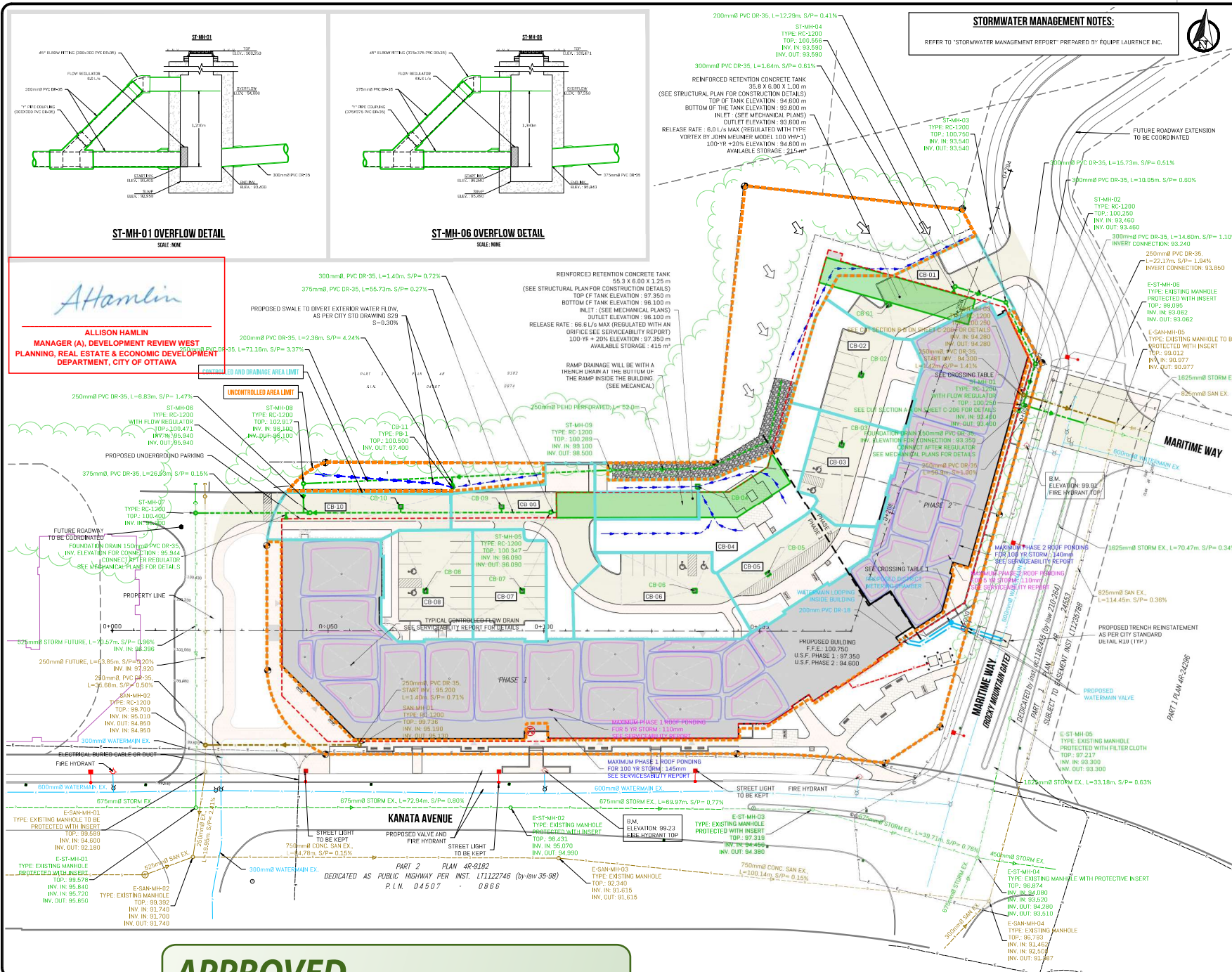
SCALE:	Horizontal 1:400	DATE:	C-203B.dwg
DESIGN:	B. BRAY, ing. P. Eng / F. Lacroix, CDP	DRAWING:	2023-09-15
DRAWN:	J.QUESNEL	DATE:	2023-09-15
APPROVED:	B. BRAY, ing. P. Eng.	PROJECT NO:	600401
		PLAN NO:	C-203B



**APPROVED**  
By Allison Hamlin at 4:58 pm, Feb 07, 2024

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007-12-21-0163



**NOTE:**  
THE EXISTING AND PROPOSED SUBDIVISION WILL HAVE TO BE VALIDATED BY THE SURVEYOR/GEOMETRIC ON FILE.

**SURVEY AND LOTS INFORMATION PROVIDED BY FARLEY, SMITH & DENNIS SURVEYING LTD.**  
DATE: SEPTEMBER 13 2021  
FILE NO.: 139-21  
PLANIMETRIC REFERENCE SYSTEM: MTM NAD 83 ZONE 9  
ALTIMETRIC REFERENCE SYSTEM: CGVD28 HT2.0

**SITE PLAN PREPARED BY**  
ROSSMANN ARCHITECTURES  
DATE: FEBRUARY 16 2023  
PROJECT: 21019

**EXISTING POWER DUCT BANK, WATERMAIN, STORM SEWER AND SANITARY SEWER FROM OTTAWA COORDINATING COMMITTEE CENTRE REGISTRY AND CITY OF KANATA DEPARTMENT OF ENGINEERING**

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**LIB KANATA**  
KANATA AVENUE AND MARITIME WAY  
CITY OF OTTAWA, ONTARIO

**L.A. RENÉ INC.**  
722 Queen-Jacobson, Preston (Dorset) J8R 1R3  
1 450 227 1857  
info@laurence.ca | www.laurence.ca

**LICENSED PROFESSIONAL ENGINEER**  
B. BRAY  
1005689/3  
Brent Bray  
PROVINCE OF ONTARIO  
2023-06-14

**SITE SERVICING PLAN AND DRAINAGE AREA**

**SCALE:** Horizontal 1:400

**DATE:** 2023-09-15  
**DATE:** 2023-09-15  
**DATE:** 2023-09-15  
**DATE:** 2023-09-15

**DESIGN:** C-204.dwg  
**DRAWN:** J.DUCSNET  
**DATE:** 2023-09-15  
**DATE:** 2023-09-15  
**DATE:** 2023-09-15

**BY:** B. BRAY, ing., P. Eng.  
**PROJECT NO.:** 600401  
**PLAN NO.:** C-204

**APPROVED**  
By Allison Hamlin at 4:58 pm, Feb 07, 2024

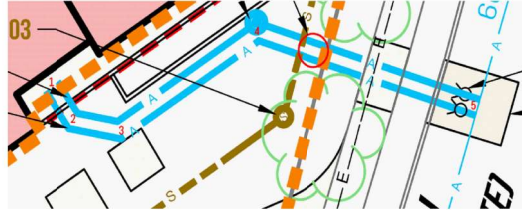
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**WATERMAIN PIPE ANALYSIS**

Location	Station Number (m)	Size (mm)	Type	obvert (m)	Ground Elevation (m)	soil cover (m)	type of fitting
1	0	200	PVC DR-18	96.200	100.750	4.550	angle
2	2.25	200	PVC DR-18	95.773	98.173	2.4	angle
3	5.12	200	PVC DR-18	95.700	98.100	2.4	angle
4	13.84	200	PVC DR-18	95.570	97.970	2.4	Metering chamber
5	25.93	200	PVC DR-18	95.152	97.552	2.4	Valves

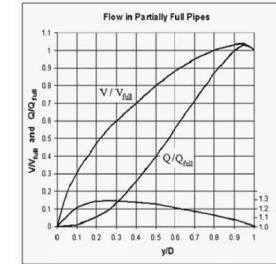
**SANITARY PIPE ANALYSIS**

Upstream Location	Downstream Location	Diameter (d)	Type	Upstream invert	Downstream invert	Length (m)	Slope (%)	Capacity (Qf) (L/s)	Velocity full (Vf) (m/s)	Flowrate (Q) (L/s)	Q/Qf	y/D	Velocity (m/s)
Building - Phase 1	SAN-MH-01	250	PVC DR-35	95.200	95.190	1.00	1.00	59.47	1.21	5.85	0.10	0.30	0.73
SAN-MH-01	SAN-MH-02	250	PVC DR-35	95.130	95.010	35.90	0.33	34.38	0.70	5.85	0.17	0.35	0.46
Building - Phase 2	SAN-MH-03	250	PVC DR-35	94.300	94.290	1.00	1.00	59.47	1.21	3.99	0.07	0.22	0.61
SAN-MH-03	E-SAN-MH-05	200	PVC DR-35	94.290	93.850	21.90	2.01	46.49	1.48	3.99	0.09	0.18	0.65



**STORMWATER PIPE ANALYSIS**

Upstream Location	Downstream Location	Diameter (d)	Type	Upstream invert	Downstream invert	Length (m)	Slope (%)	Capacity (Qf) (L/s)	Flowrate (Q) (L/s)	Q/Qf
Building Phase 1	ST-MH-05	375	PVC	96.100	96.090	1.1	0.91	167.17	66.6	0.40
ST-MH-05	ST-MH-06	375	PVC	96.090	95.935	59.13	0.26	89.77	66.6	0.74
ST-MH-06	ST-MH-07	375	PVC	95.935	95.900	18.35	0.19	76.57	66.6	0.87
Building Phase 2	ST-MH-04	300	PVC	93.600	93.590	1	1.00	96.70	6	0.06
ST-MH-04	ST-MH-03	300	PVC	93.590	93.540	11.7	0.43	63.22	6	0.09
ST-MH-03	ST-MH-02	300	PVC	93.540	93.460	14.58	0.55	71.63	6	0.08
ST-MH-02	ST-MH-01	300	PVC	93.460	93.400	11.08	0.54	71.16	6	0.08
ST-MH-01	E-ST-MH-06	300	PVC	93.400	93.243	15.72	1.00	96.70	6	0.06



**STRUCTURE TABLE - STORM SEWER**

NAME	DETAILS	ELEVATIONS/INVERTS
ST-MH-01	1200mm FLOWRATE REGULATOR	INV. IN: 93.400 INV. OUT: 93.400 SUMP: 92.950
ST-MH-02	1200mm	INV. IN: 93.460 INV. OUT: 93.460 SUMP: 93.460
ST-MH-03	1200mm	INV. IN: 93.540 INV. OUT: 93.540 SUMP: 93.540
ST-MH-04	1200mm	INV. IN: 93.590 INV. OUT: 93.590 SUMP: 93.590
ST-MH-05	1200mm	INV. IN: 96.090 INV. OUT: 96.090 SUMP: 96.090
ST-MH-06	1200mm FLOWRATE REGULATOR	INV. IN: 95.940 INV. OUT: 95.940 SUMP: 95.490
ST-MH-07	1200mm	INV. IN: 95.900 INV. OUT: 95.900 SUMP: 95.900
ST-MH-08	1200mm	INV. IN: 96.100 INV. OUT: 96.100 SUMP: 96.100
ST-MH-09	1200mm	INV. IN: 98.500 INV. OUT: 98.500 SUMP: 98.500

**STRUCTURE TABLE - SANITARY SEWER**

NAME	DETAILS	ELEVATIONS/INVERTS
SAN-MH-01	1200mm	INV. IN: 95.190 INV. OUT: 95.130
SAN-MH-02	1200mm	INV. IN: 95.010 INV. OUT: 94.850
SAN-MH-03	1200mm	INV. IN: 94.290 INV. OUT: 94.280

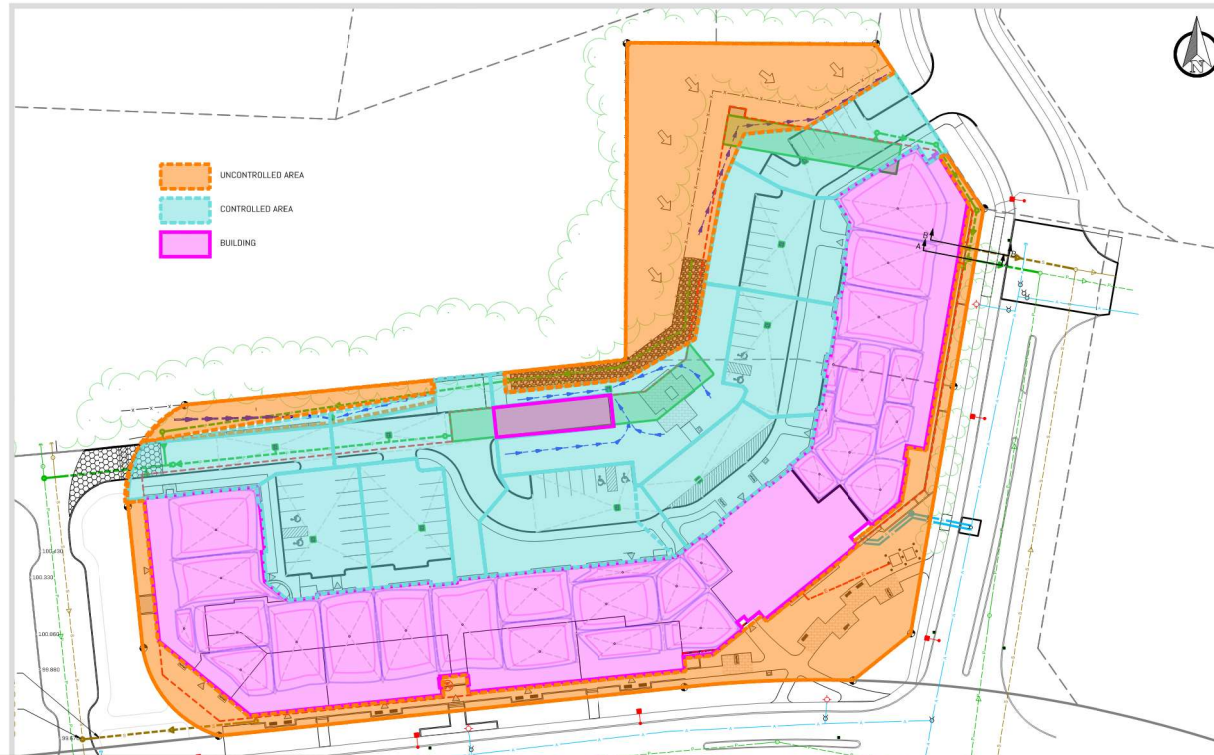
\*Provide Banching as per OSDG 6.2.1.2

**CROSSING TABLE**

Pipe	Type	Invert (m)	Difference (m)
Stormwater pipe	300mm PVC	93.400	0.58
Sanitary pipe	250 mm PVC	94.280	

**STRUCTURE TABLE - STORM SEWER**

NAME	DETAILS	ELEVATIONS/INVERTS	AREA (ha)	5-YR COEFFICIENT	100-YR COEFFICIENT
CB-01	SEE MECHANICAL	TOP: 100.400	0.0555	0.900	1.000
CB-02	SEE MECHANICAL	TOP: 100.300	0.0592	0.900	1.000
CB-03	SEE MECHANICAL	TOP: 100.300	0.0565	0.900	1.000
CB-04	Catch Basin 600mm	TOP: 100.200 INVERT: 96.150 SUMP: 95.850	0.0734	0.789	0.893
CB-05	SEE MECHANICAL	TOP: 100.350	0.0567	0.900	1.000
CB-06	SEE MECHANICAL	TOP: 100.350	0.0635	0.900	1.000
CB-07	SEE MECHANICAL	TOP: 100.250	0.0430	0.900	1.000
CB-08	SEE MECHANICAL	TOP: 100.250	0.0533	0.900	1.000
CB-09	Catch Basin 600mm	TOP: 100.230 INVERT: 96.070 SUMP: 95.760	0.0674	0.827	0.922
CB-10	Catch Basin 600mm	TOP: 100.230 INVERT: 96.010 SUMP: 95.710	0.0462	0.823	0.918
CB-11	Catch Basin 600mm	TOP: 100.500 INVERT: 97.400 SUMP: 97.100		uncontrolled runoff	



**APPROVED**  
By Allison Hamlin at 4:58 pm, Feb 07, 2024

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

REV	DESCRIPTION	BY	DATE
2	FOR SITE PLAN APPLICATION REVISION 10	B.B.	2023-06-14
1	FOR ADDENDUM C01	B.B.	2023-05-08
0	ISSUED FOR CONSTRUCTION REV. 00	B.B.	2023-03-17
J	FOR SITE PLAN APPLICATION REVISION 9	B.B.	2023-03-18
I	FOR SITE PLAN APPLICATION REVISION 8	B.B.	2023-03-08
H	FOR SITE PLAN APPLICATION REVISION 7	B.B.	2023-02-02

CLIENT: **emo batimo**  
PROJECT: LIB KANATA  
KANATA AVENUE AND MARITIME WAY  
CITY OF OTTAWA, ONTARIO

**LAURENCE**  
755, Sherbrooke Avenue, Westmount (Quebec), J8R 1K3  
T: 450 227 1857  
info@laurence.ca | www.laurence.ca

LICENSED PROFESSIONAL ENGINEER  
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100568973  
Benoit Bray  
PROVINCE OF ONTARIO  
2023-06-14

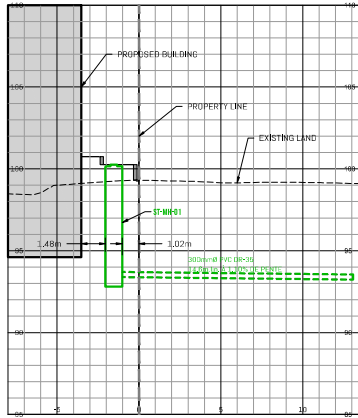
TITLE: SITE SERVICING PLAN  
AND DRAINAGE AREA

SCALE:	DATE:	PROJECT NO:	PLAN NO:
B. BRAY, ing. P. Eng. / F. Lacroix CPE	C-204.dwg		
DESIGN	2021-09-15		
J.QUESNEL			
DRAWN			
B. BRAY, ing. P. Eng.	600401	C-204A	
APPROVED			

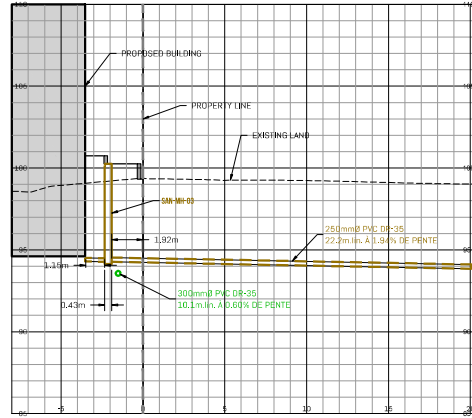
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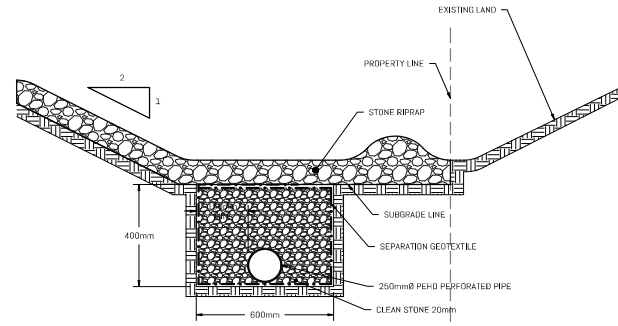




SECTION CUT A - A



SECTION CUT B - B



NOTES:  
END OF PERFORATED PIPE MUST BE CAPPED.

TRENCH DRAIN AND SEDIMENT BARRIER

*All Hamlin*

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

REV	DESCRIPTION	BY	DATE
2	FOR SITE PLAN APPLICATION REVISION 10	B.B.	2023-09-14
1	FOR ARBUDUEN CD3	B.B.	2023-05-03
0	ISSUED FOR CONSTRUCTION REV. 00	B.B.	2023-03-17
J	FOR SITE PLAN APPLICATION REVISION 9	B.B.	2023-03-13
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E	FOR SITE PLAN APPLICATION REVISION 4	A.L.	2022-07-07
D	FOR SITE PLAN APPLICATION REVISION 3	A.L.	2022-03-23



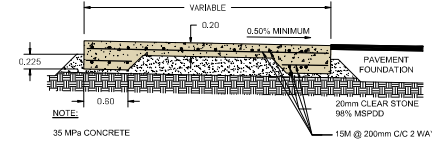
PROJECT:  
LIB KANATA  
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CITY OF OTTAWA, ONTARIO



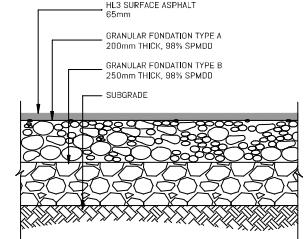
TITLE:  
STANDARD SECTIONS AND DETAILS II

SCALE:  
NO SCALE

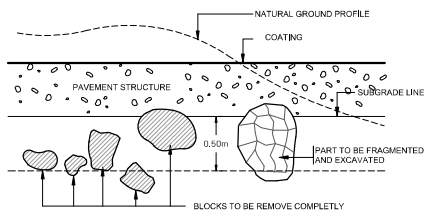
DESIGN	B. BRAY, ing., P. Eng. / F. Lucero, CPE	C-206.dwg
DRAWN	J.QUESNEL	2021-09-15
DATE		
APPROVED	B. BRAY, ing., P. Eng.	600401
PROJECT NO.		C-206
PLAN NO.		



REINFORCED CONCRETE SLAB FOR GARBAGE CONTAINERS

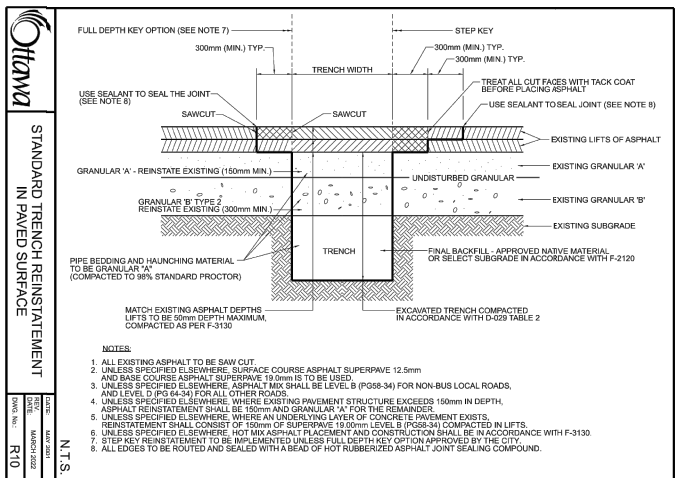


PARKING AND ACCESS  
FOUNDATION ASPHALT SURFACE  
(TO BE VERIFIED BY GEOTECHNICAL ENGINEER)



NOTES:  
- ALL BLOCKS OVER 250mm DIAMETER PRESENT IN THE FIRST 500 mm UNDER INFRASTRUCTURE LINE MUST BE REMOVED, FRAGMENTED AND EXCAVATED TO 500 mm DEPT.  
- AFTER REMOVING BLOCKS, THE EXCAVATIONS HAVE TO BE RAISED TO DESIGN SUBGRADE LEVELS WITH APPROVED COMPACTABLE ON SITE SOIL.  
- LIFTS OF 300mm THICK, COMPACTED AT 95% MSPDD  
- AS AN ALTERNATIVE TO SUBEXCAVATION, A WOVEN GEOTEXTILE SEPARATOR, SUCH AS TERRATRACK 24-15, AMOCO 2002, MIRAFI 800XL OR EQUIVALENT, MAY BE PLACED OVER SPONGY AREAS PRIOR TO PLACING THE GRANULAR 'B' SUB-BASE LAYER.

SUBGRADE PREPARATION DETAIL



STANDARD TRENCH REINSTATEMENT IN PAVED SURFACE

**APPROVED**  
By Allison Hamlin at 4:58 pm, Feb 07, 2024

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FIRE FLOW DEMAND = 16,000L  
 TOTAL FIRE FLOW CONTRIBUTION = 47,500L

150m FROM  
 BUILDING FOOTPRINT

75m FROM  
 BUILDING FOOTPRINT

BUILDING FOOTPRINT

- HYDRANTS ≤ 75m
- HYDRANTS > 75m & ≤ 150m
- HYDRANTS > 150m

**APPROVED**  
 By Allison Hamlin at 4:58 pm, Feb 07, 2024

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

REV	DESCRIPTION	BY	DATE
2	FOR SITE PLAN APPLICATION REVISION 10	S.B.	2023-09-14
1	FOR AGENDUM CD3	S.B.	2023-05-23
D	ISSUED FOR CONSTRUCTION REV. 00	S.B.	2023-03-17
J	FOR SITE PLAN APPLICATION REVISION 8	S.B.	2023-03-16
I	FOR SITE PLAN APPLICATION REVISION 8	S.B.	2023-03-08
H	FOR SITE PLAN APPLICATION REVISION 7	S.B.	2023-02-02
G	FOR SITE PLAN APPLICATION REVISION 6	A.L.	2022-10-16
F	FOR SITE PLAN APPLICATION REVISION 5	A.L.	2022-07-12
E	FOR SITE PLAN APPLICATION REVISION 4	A.L.	2022-07-07
D	FOR SITE PLAN APPLICATION REVISION 3	A.L.	2022-03-23



PROJECT:  
 LIB KANATA  
 KANATA AVENUE AND MARITIME WAY  
 CITY OF OTTAWA, ONTARIO

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TITLE:  
 FIRE HYDRANT COVERAGE MAP

SCALE: Horizontal 1:1000

B. BRAY, ing., P. Eng. / P. Licencé, C.P.I.	C-207.dwg
DESIGN	DATE
J. JOLIESNEL	2023-09-15
DRAWN	DATE
B. BRAY, ing., P. Eng.	600401
APPROVED	PROJECT NO. C-207
	PLAN NO.

D07-12-21-0163