emd batimo
CONSTRUCTION PROMOTEUR ET GESTIONNAIRE IMMOBILIER

PROJECT:

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

PROJECT NO: **600401**

DATE: **2023-03-16**

ÉQUIPE LAURENCE INGÉNIERIE CIVILE

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 REVISION 9, LE 2023-03-16

D07-12-21-0153

18603

TECHNICAL AND GENERAL SPECIFICATIONS

1.0 GENERAL SPECIFICATIONS

All work shall conform with Ontario building code, latest edition as well as local regulation and bylaws.

Contractor to verify all dimensions and report any discrepancies to the engineer immediately to get design confirmation before proceeding with construction.

Refer to the City of Ottawa for regulations and standards (supersedes provincial standards).

Refer to Ontario Provincial Standards for Roads and Public Works - Volume 3 for details.

Ontario provincial standards for roads and public works must also be respected.

Work to be performed in accordance with the Occupational Health and Safety Act and Regulations for Construction Projects.

All materials shall meet all current applicable standards set by the American Water Works Association ("AWWA"), Canadian Standards Association ("CSA"), the American National Standards Institute ("ANSI") safety criteria standards, American Society for Testing and Materials (ASTM), NSF/14, NSF/60 and NSF/61.

The Contractor will get approval for all materials selection from the Civil Engineer prior to delivery to the site.

BUILDING OWNER: EMD BATIMO

CONSULTING CIVIL ENGINEER: ÉQUIPE LAURENCE INC.

2.0 GENERAL INFORMATIONS

2.1 UNDERGROUND SERVICES

The plans show certain underground installations for the sole purpose to highlight the existence of cables, pipelines and underground structures. In the sectors where work must be performed, the contractor is responsible to verify himself with the competent authorities the existence and actual location of all cables, pipelines and existing underground structures that may affect the works.

Before beginning excavations, the contractor must thus contact the Ontario One Call (www.on1call.com) , the municipal authorities and all other stake holders in order to identify on the field all existing underground structures whether they are shown on the plans or not.

He is responsible for damages to cables, pipelines and underground structures. No cost variation resulting from underground structures not shown or poorly located on the plans can be claimed against the building owner. Following the review of the plans and specifications, the contractor must notify the engineer of any error, omission or discrepancy noted by him before starting work.

2.2 EXISTING WATERMAIN AND SEWER CONDUITS

The location of the watermain and sewer pipes is approximate. The contractor must verify and validate the position and depth of the pipes by the means of meticulous excavations. Should discrepancies be observed, they must be provided to the engineer without delay in order that the required modifications are made to the construction plans. The contractor will have to coordinate with the city,the connecting works to the existing networks (watermain and sewers). No service interruption shall take place without the building owner's authorization or the relevant authorities.

2.3 PROTECTION AGAINST EROSION

As per ''Erosion and sediment control guideline for urbain construction''
In all areas of the building site where there is a risk of erosion, the ground must be stabilized.
Runoff water must be intercepted and routed to stabilized areas and this, throughout the construction period. The contractor must use the recognized methods to prevent the transport of sediments.

- Sediment barrier
- Mud mat
- Sedimentation pond
- Filtering berm and sediment trap
- Straw bale filter

Any intervention on the building site which may cause the transfer of sediments must be simultaneously accompanied by sediment capture measures.

2.4 DRAINING OF THE EXCAVATIONS

The contractor shall take all necessary precautions to prevent the penetration of surface waters and to evacuate surface, underground or sewer waters. Waste waters must be directed towards a combined sewer or a sanitary sewer and the surface and underground waters towards a storm sewer, a combined sewer or a ditch. In all cases, the diversion site must be submitted for approval.
The contractor must assume all required pumping and cleaning costs.

2.5 PAVEMENT PROTECTION

At all times, the movement of machinery and metal tracked vehicles is prohibited on paved surfaces unless plywood sheets with a 20mm normal thickness or rubber with a 12.5mm thickness are used in order to avoid damaging pavement. All repairs or complete replacements of pavement is the contractor's responsibility, who will have to pay all the costs.

2.6 CLEANING OF SITE

At the end of the construction works and as often as requested by the project superintendent, the contractor must clean and eliminate all construction generated debris and restore all construction affected areas. The cleaning of the construction site is included in the global market unit prices.

3.0 SITE GRADING

Surface topsoil layer stripping required.

Low-lying areas may be filled by utilising soil cut from higher ares and by importing suitable fill materials.

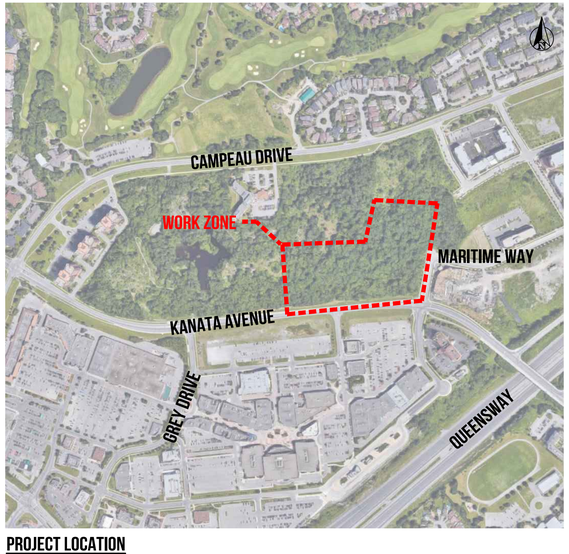
The approved subgrade may be raised to design subgrade level with approved compactable on-site soil, providing it is placed in maximum 300 mm thick lifts and each lift is compacted to at least 95% of the material's SPMDD. As an alternative to subexcavation, a woven geotextile separator, such as Terratrack 24-15, Amoco 2002, Mirafi 500XL or equivalent, may be placed over spongy areas prior to placing the Granular 'B' sub-base layer.

4.0 CONCRETE WORKS

All weather exposed concrete shall have 5 to 8% air entrainment or as otherwise specified in Tables 2 and 4 of CSA A23.1.

Concrete sidewalk as per OPSD 310.010. Foundation consist of 150 mm minimum of granular 'A' material. Sidewalk concrete thickness shall be 200 mm.

Concrete barrier curb as per OPSD 600.110. Foundation consist of 150 mm minimum ofgranular 'A' material.



PROJECT LOCATION
NO SCALE

CIVIL ENGINEERING LEGEND

- EXISTING BUILDING
- PROPOSED BUILDING
- BOTTOM OF EMBANKMENT
- TOP OF EMBANKMENT
- DITCH CENTER
- DITCH TO BE REMOVED
- DITCH CENTER WITH ROCK FILL PROTECTION
- EXISTING FENCE
- FENCE TO BE REMOVED
- PROPOSED FENCE
- SILT FENCE BARRIER
- ISOLATED WETLAND
- EXISTING TREE
- WOODED AREA
- WOODED AREA TO BE REMOVED
- OVERLAND FLOW ROUTE
- GUARDRAIL
- STONE RETAINING WALL
- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT
- EXISTING WATER SERVICE VALVE
- PROPOSED WATER SERVICE VALVE
- EXISTING WATER PIPE
- EXISTING WATER PIPE TO BE REMOVED
- PROPOSED WATER PIPE
- EXISTING DRINKING WATER SERVICE CONNECTION
- PROPOSED DRINKING WATER SERVICE CONNECTION
- EXISTING SANITARY SEWER AND MANHOLE
- PROPOSED SANITARY SEWER AND MANHOLE
- SANITARY SEWER AND MANHOLE TO BE REMOVED
- EXISTING STORM SEWER PIPE AND MANHOLE
- PROPOSED STORM SEWER PIPE AND MANHOLE
- STORM SEWER AND MANHOLE TO BE REMOVED
- CULVERT
- EXISTING CATCH BASIN OR MANHOLE-CATCH BASIN
- PROPOSED CATCH BASIN OR MANHOLE-CATCH BASIN
- STMHE-01 — EXISTING STORM SEWER MANHOLE
- STMH-01 — PROPOSED STORM SEWER MANHOLE
- SANMHE-01 — EXISTING SANITARY SEWER MANHOLE
- SANMH-01 — PROPOSED SANITARY SEWER MANHOLE
- LIGHTNING UNIT
- OVERHEAD WIRING AND GUY WIRE
- EXISTING GAS PIPELINE
- BELL CANADA UNDERGROUND CABLE
- UNDERGROUND ELECTRICAL WIRE
- PROPOSED ASPHALT SURFACE
- PROPOSED CONCRETE SIDEWALK/SLAB
- PAVER SIDEWALK
- PROPOSED GRASS SURFACE
- GRANULAR SURFACE
- PROPOSED TEMPORARY MUD MAT
- PROPOSED STONES SURFACE
- PROPOSED GRANITE STONES
- EXISTING ASPHALT SURFACE TO BE REMOVED
- EXISTING SURFACE TO BE REMOVED
- 26.300 — PROPOSED ELEVATION
- CB: 26.450 — PROPOSED ELEVATION OF CONCRETE CURB
- C: 26.450 — PROPOSED ELEVATION OF CONCRETE SLAB
- G: 26.650 — PROPOSED TOP ELEVATION OF GRASS
- S: 26.450 — PROPOSED TOP ELEVATION OF SIDEWALK
- TW: 26.450 — PROPOSED TOP ELEVATION OF RETAINING WALL
- BW: 26.450 — PROPOSED BOTTOM ELEVATION OF RETAINING WALL
- 25.30 — EXISTING ELEVATION OF SURFACE
- -3.00% — GRADING SLOPES
- NORTH

LIST OF PLANS

REV	DESCRIPTION	BY	DATE
J	FOR SITE PLAN APPLICATION REVISION 9	B.B.	2023-03-16
I	FOR SITE PLAN APPLICATION REVISION 8	B.B.	2023-03-08
H	FOR SITE PLAN APPLICATION REVISION 7	B.B.	2023-02-02
G	FOR SITE PLAN APPLICATION REVISION 6	A.L.	2022-09-16
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
C	FOR SITE PLAN APPLICATION REVISION 2	A.L.	2021-10-07
B	FOR SITE PLAN APPLICATION REVISION 1	A.L.	2021-09-24
A	FOR SITE PLAN APPLICATION	A.L.	2021-09-17

CLIENT: emd batimo CONSTRUCTION — PROMOTEUR ET GESTIONNAIRE IMMOBILIER

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

ÉQUIPE LAURENCE INGÉNIERIE CIVILE
733, chemin Jean-Adam, Piedmont (Québec) J0R 1R3
T 450 227 1857
info@equipelaurence.ca | equipelaurence.ca

LICENSED PROFESSIONAL ENGINEER
B. BRAY
100568973
PROVINCE OF ONTARIO
2023-03-17

TITLE:
TECHNICAL AND GENERAL SPECIFICATIONS, LEGEND AND NOTES
LOCATION

SCALE: NO SCALE

B. BRAY, ing. P. Eng / F. Lacroix CPI	C-201.dwg
DESIGN	DRAWING
J.QUESNEL	2021-09-15
DRAWN	DATE
B. BRAY, ing. P. Eng.	600401 C-201
APPROVED	PROJECT NO PLAN NO

D07-12-21-0153

EROSION AND SEDIMENT CONTROL

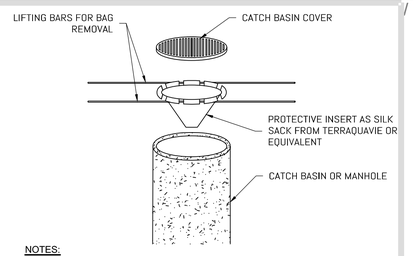
PRE-CONSTRUCTION
PRIOR TO ANY REMOVAL OF SOIL AND CONSTRUCTION.
- INSTALL SILT FENCE (GEOTEXTILE) AS NOTED
- INSTALL PROTECTIVE INSERT OVER ALL EXISTING MANHOLES, CATCHBASINS ADJACENT AND IN CONSTRUCTION ZONE AS SILK SACK FROM TERRAQUAVIE OR EQUIVALENT. SEE DETAIL
- CONTROL MEASURES TO BE INSPECTED ONCE INSTALLED.
- CONSTRUCTION OF MUD MATS, SEE CONTRACTOR FOR LOCATION.

CONSTRUCTION
- MINIMIZE THE EXTENT OF DISTURBED AREAS.
- PROTECT DISTURBED AREAS OF RUNOFF.
- PROVIDE COVER (I.E. MULCH) IF DISTURBED AREAS WILL NOT BE REINSTATED WITHIN A REASONABLE PERIOD OF TIME.
- INSPECT SILT FENCE REGULARLY DURING CONSTRUCTION. CLEAN AND REPAIR, AS REQUIRED.
- CONTROL DUST DURING CONSTRUCTION.

AFTER CONSTRUCTION
- PROVIDE PERMANENT COVER TO DISTURBED AREAS (I.E. TOPSOIL AND SEED)
- REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL ITEMS (SILT FENCE AND FILTER CLOTHS) ONCE DISTURBED AREAS HAVE BEEN REINSTATED.

INSPECTIONS
- EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSPECTED UPON COMPLETION.
- CONTROL MEASURES ARE TO BE INSPECTED WEEKLY.

CONTRACTOR TO BE RESPONSIBLE FOR INSTALLATION, INSPECTIONS AND MAINTENANCE OF ALL SEDIMENT AND EROSION CONTROL MEASURES.



NOTES:
- TO BE USED DURING THE CONSTRUCTION PERIOD
- TO BE INSPECTED EVERY 3 WEEKS AND AFTER EVERY MAJOR RAIN EVENT
- TO BE INSTALLED BY MANUFACTURER'S RECOMMANDATIONS

PROTECTIVE INSERT FOR CATCHBASINS AND MANHOLES

PART 1 4R-9802 (REMAINDER)

SILT FENCE BARRIER AS PER OPSD 219.110 AND OTTAWA CITY STANDARDS (TYP.) (SEE DETAILS)

250mmØ FUTURE, L=63.85m, S/P=5.20%
INV. IN: 97.920

525mmØ STORM FUTURE, L=78.57m, S/P=0.96%
INV. IN: 96.336

EXISTING TREES (APPROXIMATE LOCATION) LOCATED OUTSIDE THE WORK AREA TO PROTECT AND PRESERVE

PROPERTY LINE

TREE REMOVAL LIMIT

E-SAN-MH-01
TYPE: EXISTING MANHOLE TO BE PROTECTED WITH INSERT
TOP.: 99.589
INV. IN: 94.600
INV. OUT: 92.180

300mmØ WATERMAIN EX.

STREET RIGHT-OF-WAY

ELECTRICAL BURIED CABLE OR DUCT, TO BE PROTECTED

STREET LIGHT TO BE PROTECTED

B.M.
ELEVATION: 99.23
FIRE HYDRANT TOP.

PHASE 1

PHASE 2

EXISTING TREES (APPROXIMATE LOCATION) LOCATED INSIDE THE WORK AREA TO REMOVE AND DISPOSE

PROPOSED BUILDING

CONCRETE CURB REMOVAL (TYP.)

FUTURE ROADWAY EXTENSION TO BE COORDINATED

EXISTING MANHOLE HYDRO OTTAWA

EXISTING CATCHBASIN TO BE PROTECTED WITH INSERT

B.M.
ELEVATION: 99.91
FIRE HYDRANT TOP

E-ST-MH-06
TYPE: EXISTING MANHOLE PROTECTED WITH INSERT
TOP.: 99.095
INV. IN: 93.062
INV. OUT: 93.062

E-SAN-MH-05
TYPE: EXISTING MANHOLE TO PROTECTED WITH INSERT
TOP.: 99.012
INV. IN: 90.977
INV. OUT: 90.977

1625mmØ STORM EX.

825mmØ SAN EX.

MARITIME WAY

600mmØ WATERMAIN EX.

ROAD CUT AS PER CITY STANDARD DETAIL R10

825mmØ SAN EX., L=114.45m. S/P= 0.36%
1625mmØ STORM EX., L=70.47m. S/P= 0.34%

ROAD CUT AS PER CITY STANDARD DETAIL R10

MARITIME WAY (ROCKY MOUNTAIN GATED)

DEDICATED by inst. no. LT1362455 (by-law 210-264)

PART 1 PLAN 4R - 24553

SUBJECT TO EASEMENT INST. LT1235798

PART 1 PLAN 4R-24236

STREET LIGHT

FIRE HYDRANT

E-ST-MH-05
TYPE: EXISTING MANHOLE PROTECTED WITH FILTER CLOTH
TOP.: 97.217
INV. IN: 93.300
INV. OUT: 93.300

1625mmØ STORM EX., L=33.18m. S/P= 0.63%

600mmØ WATERMAIN EX.

675mmØ STORM EX.

675mmØ STORM EX., L=72.94m. S/P= 0.80%

675mmØ STORM EX., L=69.97m. S/P= 0.77%

675mmØ STORM EX., L=39.71m. S/P= 0.76%

KANATA AVENUE

PART 2 PLAN 4R-9182
DEDICATED AS PUBLIC HIGHWAY PER INST. LT1122746 (by-law 35-98)
P.I.N. 04507 - 0866

EXISTING CATCHBASIN TO BE PROTECTED WITH INSERT

EXISTING CATCHBASIN TO BE PROTECTED WITH INSERT

750mmØ CONC. SAN EX., L=84.78m. S/P= 0.15%

750mmØ CONC. SAN EX., L=100.14m. S/P= 0.15%

E-ST-MH-01
TYPE: EXISTING MANHOLE PROTECTED WITH INSERT
TOP.: 99.578
INV. IN: 95.840
INV. IN: 95.720
INV. OUT: 95.650

E-SAN-MH-02
TYPE: EXISTING MANHOLE
TOP.: 99.392
INV. IN: 91.740
INV. IN: 91.700
INV. OUT: 91.740

250mmØ EX., L=119.95m. S/P= 2.14%

525mmØ SAN EX.

300mmØ WATERMAIN EX.

E-ST-MH-02
TYPE: EXISTING MANHOLE PROTECTED WITH INSERT
TOP.: 98.431
INV. IN: 95.070
INV. OUT: 94.990

E-SAN-MH-03
TYPE: EXISTING MANHOLE
TOP.: 92.340
INV. IN: 91.615
INV. OUT: 91.615

E-ST-MH-03
TYPE: EXISTING MANHOLE PROTECTED WITH INSERT
TOP.: 97.319
INV. IN: 94.460
INV. OUT: 94.380

675mmØ STORM EX.

300mmØ SAN EX.

EXISTING CATCHBASIN TO BE PROTECTED WITH FILTER CLOTH

450mmØ STORM EX.

E-ST-MH-04
TYPE: EXISTING MANHOLE WITH PROTECTIVE INSERT
TOP.: 96.874
INV. IN: 94.080
INV. IN: 93.520
INV. OUT: 94.280
INV. OUT: 93.510

E-SAN-MH-04
TYPE: EXISTING MANHOLE
TOP.: 96.793
INV. IN: 91.462
INV. IN: 92.500
INV. OUT: 91.387

NOTE:

THE EXISTING AND PROPOSED SUBDIVISION WILL HAVE TO BE VALIDATED BY THE SURVEYOR-GEOMETER ON FILE.

SURVEY AND LOTS INFORMATION PROVIDED BY
FARLEY, SMITH & DENIS 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: SEPTEMBER 15 2022
PROJECT: 21019

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

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.

REV	DESCRIPTION	BY	DATE
J	FOR SITE PLAN APPLICATION REVISION 9	B.B.	2023-03-16
I	FOR SITE PLAN APPLICATION REVISION 8	B.B.	2023-03-08
H	FOR SITE PLAN APPLICATION REVISION 7	B.B.	2023-02-02
G	FOR SITE PLAN APPLICATION REVISION 6	A.L.	2022-09-16
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
C	FOR SITE PLAN APPLICATION REVISION 2	A.L.	2021-10-07
B	FOR SITE PLAN APPLICATION REVISION 1	A.L.	2021-09-24
A	FOR SITE PLAN APPLICATION	A.L.	2021-09-17

CLIENT: emd latimo CONSTRUCTION PROMOTEUR ET GESTIONNAIRE IMMOBILIER

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

ÉQUIPE LAURENCE INGÉNIERIE CIVILE
733, chemin Jean-Adam, Piedmont (Québec) J0R 1R3
T. 450 227 1857
info@equipelaurence.ca | equipelaurence.ca

LICENSED PROFESSIONAL ENGINEER
B. BRAY
100568973
PROVINCE OF ONTARIO
2023-03-17

TITLE:
PLAN VIEW
EXISTING ITEMS, DEMOLITION AND EROSION AND SEDIMENT CONTROL PLAN

SCALE: Horizontal 1:400 (0, 4, 8, 20 m)

B. BRAY, ing. P. Eng / F. Lacroix CPI | C-202.dwg
DESIGN: J.QUESNEL | DRAWING: 2021-09-15
DRAWN: B. BRAY, ing. P. Eng. | DATE: 600401
APPROVED | PROJECT NO | PLAN NO: C-202

D07-12-21-0153

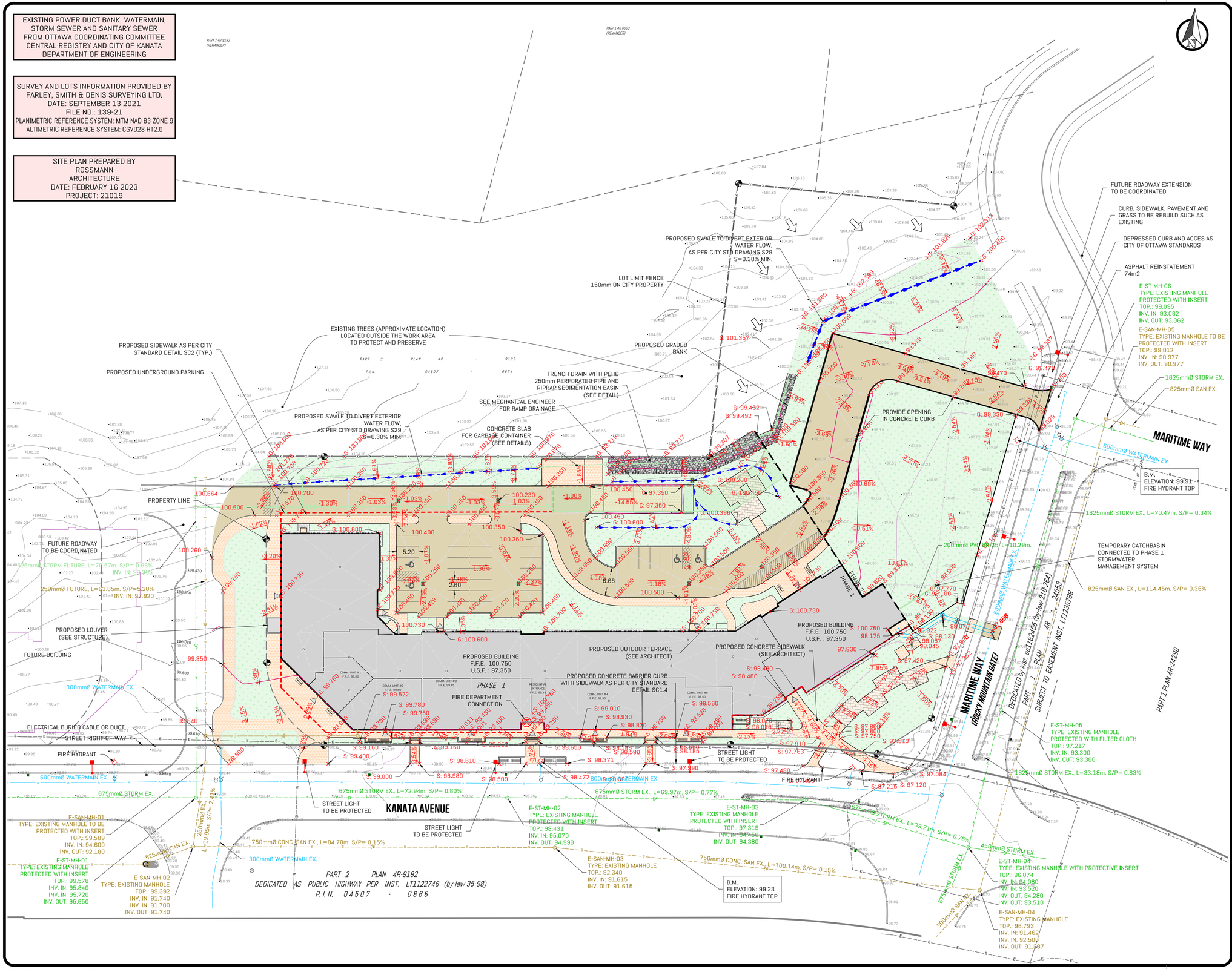
18603

F:\EQL PROJETS\6004015_Plans\C-202.dwg, 2023-03-17 7:22:35 PM, bbray

EXISTING POWER DUCT BANK, WATERMAIN, 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 & DENIS 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



NOTE:

THE EXISTING AND PROPOSED SUBDIVISION WILL HAVE TO BE VALIDATED BY THE SURVEYOR-GEOMETER 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

26.300 ×	PROPOSED ELEVATION
CB: 26.450 ×	PROPOSED ELEVATION OF CONCRETE CURB
C: 26.450 ×	PROPOSED ELEVATION OF CONCRETE SLAB
G: 26.650 ×	PROPOSED TOP ELEVATION OF GRASS
S: 26.450 ×	PROPOSED TOP ELEVATION OF SIDEWALK
TW: 26.450 ×	PROPOSED TOP ELEVATION OF RETAINING WALL
BW: 26.450 ×	PROPOSED BOTTOM ELEVATION OF RETAINING WALL
.25.30	EXISTING ELEVATION OF SURFACE
×25.30	ELEVATION OF FUTUR ROADWAY BY OTHER
-3.00%	GRADING SLOPES
	NORTH

REV	DESCRIPTION	BY	DATE
J	FOR SITE PLAN APPLICATION REVISION 9	B.B.	2023-03-16
I	FOR SITE PLAN APPLICATION REVISION 8	B.B.	2023-03-08
H	FOR SITE PLAN APPLICATION REVISION 7	B.B.	2023-02-02
G	FOR SITE PLAN APPLICATION REVISION 6	A.L.	2022-09-16
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
C	FOR SITE PLAN APPLICATION REVISION 2	A.L.	2021-10-07
B	FOR SITE PLAN APPLICATION REVISION 1	A.L.	2021-09-24
A	FOR SITE PLAN APPLICATION	A.L.	2021-09-17

CLIENT: emd batimo CONSTRUCTION PROMOTEUR ET GESTIONNAIRE IMMOBILIER

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

ÉQUIPE LAURENCE INGÉNIERIE CIVILE
733, chemin Jean-Adam, Piedmont (Québec) J0R 1R3
T 450 227 1857
info@equipelaurence.ca | equipelaurence.ca

LICENSED PROFESSIONAL ENGINEER
B. BRAY
100568973
PROVINCE OF ONTARIO
2023-03-17

TITLE:
SITE GRADING AND DRAINAGE PLAN
PHASE 1

SCALE: Horizontal 1:400 (0, 4, 8, 20 m)

B. BRAY, ing. P. Eng / F. Lacroix CPI	C-203A.dwg
DESIGN	DRAWING
J.QUESNEL	2021-09-15
DRAWN	DATE
B. BRAY, ing. P. Eng.	600401 C-203A
APPROVED	PROJECT NO PLAN NO

D07-12-21-0153

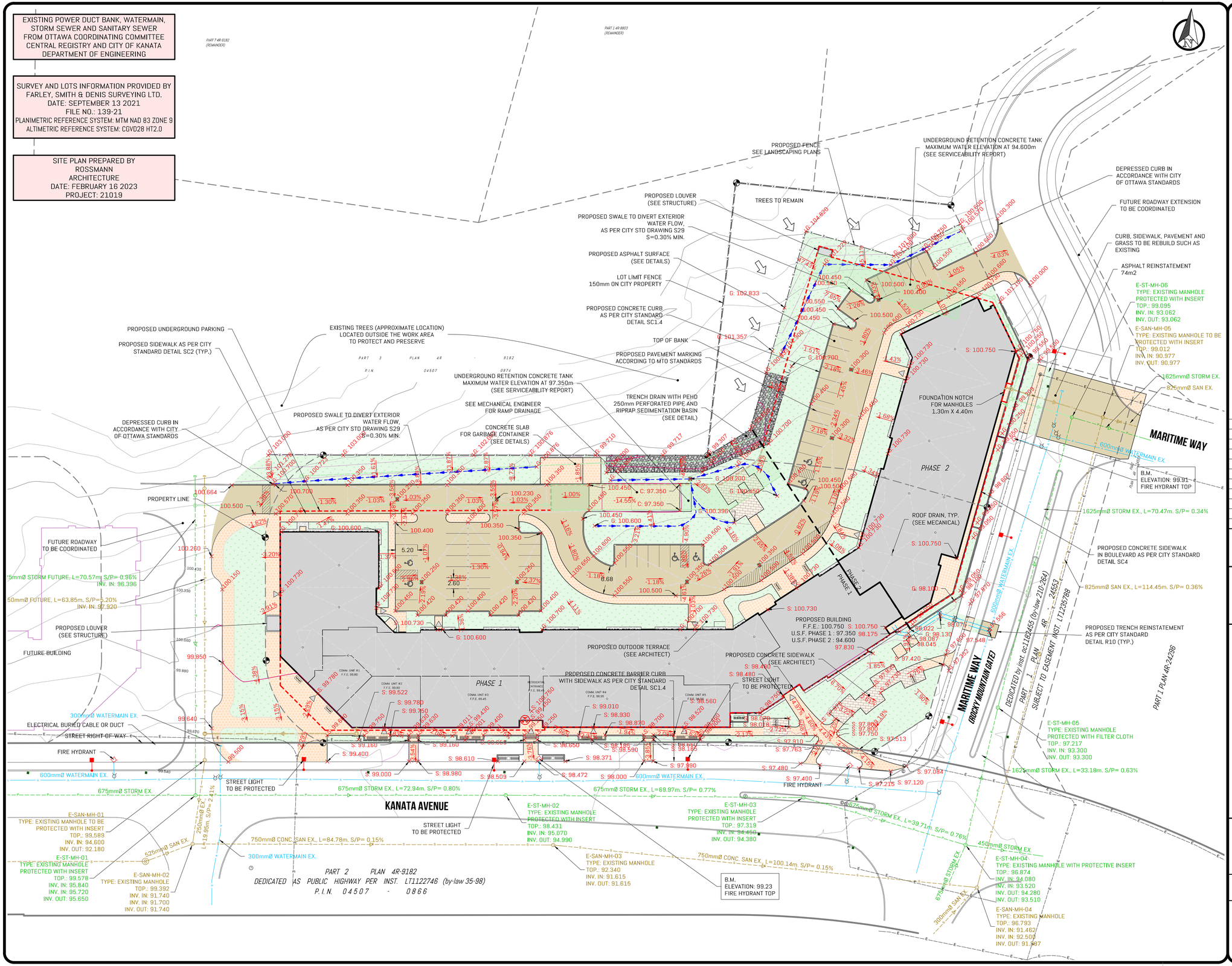
18603

F:\EQL PROJETS\600401\5_Plans\C-203A.dwg, 2023-03-17 7:22:53 PM, bbray

EXISTING POWER DUCT BANK, WATERMAIN, 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 & DENIS 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



NOTE:

THE EXISTING AND PROPOSED SUBDIVISION WILL HAVE TO BE VALIDATED BY THE SURVEYOR-GEOMETER 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

26.300 ×	PROPOSED ELEVATION
CB: 26.450 ×	PROPOSED ELEVATION OF CONCRETE CURB
C: 26.450 ×	PROPOSED ELEVATION OF CONCRETE SLAB
G: 26.650 ×	PROPOSED TOP ELEVATION OF GRASS
S: 26.450 ×	PROPOSED TOP ELEVATION OF SIDEWALK
TW: 26.450 ×	PROPOSED TOP ELEVATION OF RETAINING WALL
BW: 26.450 ×	PROPOSED BOTTOM ELEVATION OF RETAINING WALL
25.30	EXISTING ELEVATION OF SURFACE
×25.30	ELEVATION OF FUTUR ROADWAY BY OTHER
-3.00%	GRADING SLOPES
	NORTH

REV	DESCRIPTION	BY	DATE
J	FOR SITE PLAN APPLICATION REVISION 9	B.B.	2023-03-16
I	FOR SITE PLAN APPLICATION REVISION 8	B.B.	2023-03-08
H	FOR SITE PLAN APPLICATION REVISION 7	B.B.	2023-02-02
G	FOR SITE PLAN APPLICATION REVISION 6	A.L.	2022-09-16
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
C	FOR SITE PLAN APPLICATION REVISION 2	A.L.	2021-10-07
B	FOR SITE PLAN APPLICATION REVISION 1	A.L.	2021-09-24
A	FOR SITE PLAN APPLICATION	A.L.	2021-09-17

CLIENT: emd batimo CONSTRUCTION PROMOTEUR ET GESTIONNAIRE IMMOBILIER

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

ÉQUIPE LAURENCE INGÉNIERIE CIVILE
733, chemin Jean-Adam, Piedmont (Québec) J0R 1R3
T 450 227 1857
info@equipelaurence.ca | equipelaurence.ca

LICENSED PROFESSIONAL ENGINEER
B. BRAY
100568973
PROVINCE OF ONTARIO
2023-03-17

TITLE:
SITE GRADING AND DRAINAGE PLAN
PHASE 1 AND 2

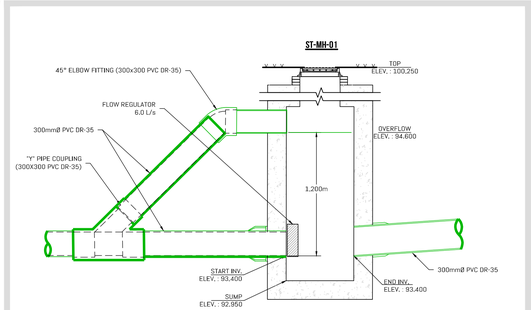
SCALE: Horizontal 1:400 (0, 4, 8, 20 m)

B. BRAY, ing. P. Eng / F. Lacroix CPI	C-203B.dwg
DESIGN: J.QUESNEL	DRAWING: 2021-09-15
DRAWN: B. BRAY, ing. P. Eng.	DATE: 600401
APPROVED	PROJECT NO: C-203B
PLAN NO	

D07-12-21-0153

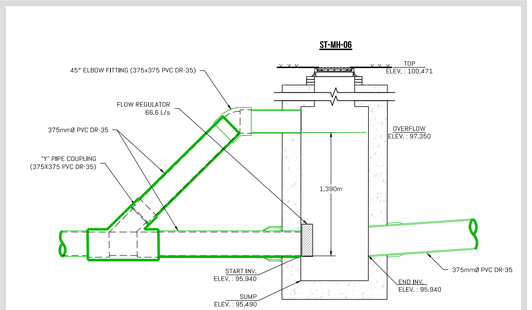
18603

F:\EQL PROJETS\6004015_Plans\C-203B.dwg, 2023-03-17 7:23:16 PM, bbray



ST-MH-01 OVERFLOW DETAIL

SCALE : NONE



ST-MH-06 OVERFLOW DETAIL

SCALE : NONE

STORMWATER MANAGEMENT NOTES:

REFER TO "STORMWATER MANAGEMENT REPORT" PREPARED BY ÉQUIPE LAURENCE INC.

NOTE:

THE EXISTING AND PROPOSED SUBDIVISION WILL HAVE TO BE VALIDATED BY THE SURVEYOR-GEOMETER ON FILE.

SURVEY AND LOTS INFORMATION PROVIDED BY
FARLEY, SMITH & DENIS 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

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

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.

REV	DESCRIPTION	BY	DATE
J	FOR SITE PLAN APPLICATION REVISION 9	B.B.	2023-03-16
I	FOR SITE PLAN APPLICATION REVISION 8	B.B.	2023-03-08
H	FOR SITE PLAN APPLICATION REVISION 7	B.B.	2023-02-02
G	FOR SITE PLAN APPLICATION REVISION 6	A.L.	2022-09-16
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
C	FOR SITE PLAN APPLICATION REVISION 2	A.L.	2021-10-07
B	FOR SITE PLAN APPLICATION REVISION 1	A.L.	2021-09-24
A	FOR SITE PLAN APPLICATION	A.L.	2021-09-17

CLIENT: emd batimo CONSTRUCTION PROMOTEUR ET GESTIONNAIRE IMMOBILIER

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

ÉQUIPE LAURENCE INGÉNIERIE CIVILE
733, chemin Jean-Adam, Piedmont (Québec) J0R 1R3
T 450 227 1857
info@equipelaurence.ca | equipelaurence.ca

LICENSED PROFESSIONAL ENGINEER
B. BRAY
100568973
PROVINCE OF ONTARIO
2023-03-17

TITLE:
SITE SERVICING PLAN
AND DRAINAGE AREA

SCALE: Horizontal 1:400 (0, 4, 8, 20 m)

B. BRAY, ing. P. Eng / F. Lacroix CPI — C-204.dwg
DESIGN — DRAWING
J.QUESNEL — 2021-09-15
DRAWN — DATE
B. BRAY, ing. P. Eng. — 600401 — C-204
APPROVED — PROJECT NO — PLAN NO

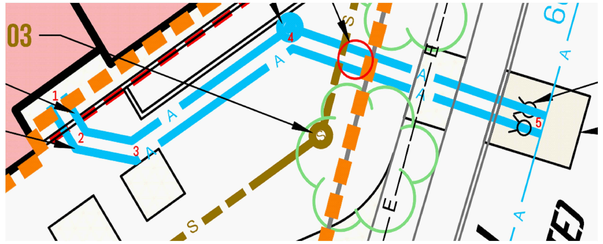
D07-12-21-0153

18603

F:\EQL PROJETS\600401\5_Plans\C-204.dwg, 2023-03-17 7:23:30 PM, bbray

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

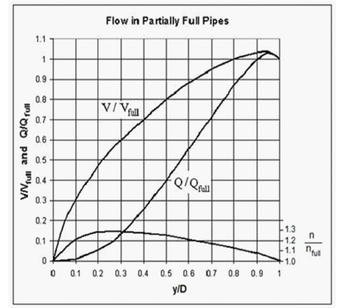


SANITARY PIPE ANALYSIS

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 - SANITARY SEWER

NAME	DETAILS	ELEVATIONS/INVERTS
SAN-MH-01	915mm	INV.IN: 95.190 INV. OUT: 95.130
SAN-MH-02	915mm	INV.IN: 95.010 INV.IN: 94.950 INV. OUT: 94.850
SAN-MH-03	915mm	INV.IN: 94.280 INV. OUT: 94.280

**Provide Benching as per OSDG 6.2.12*

CROSSING TABLE

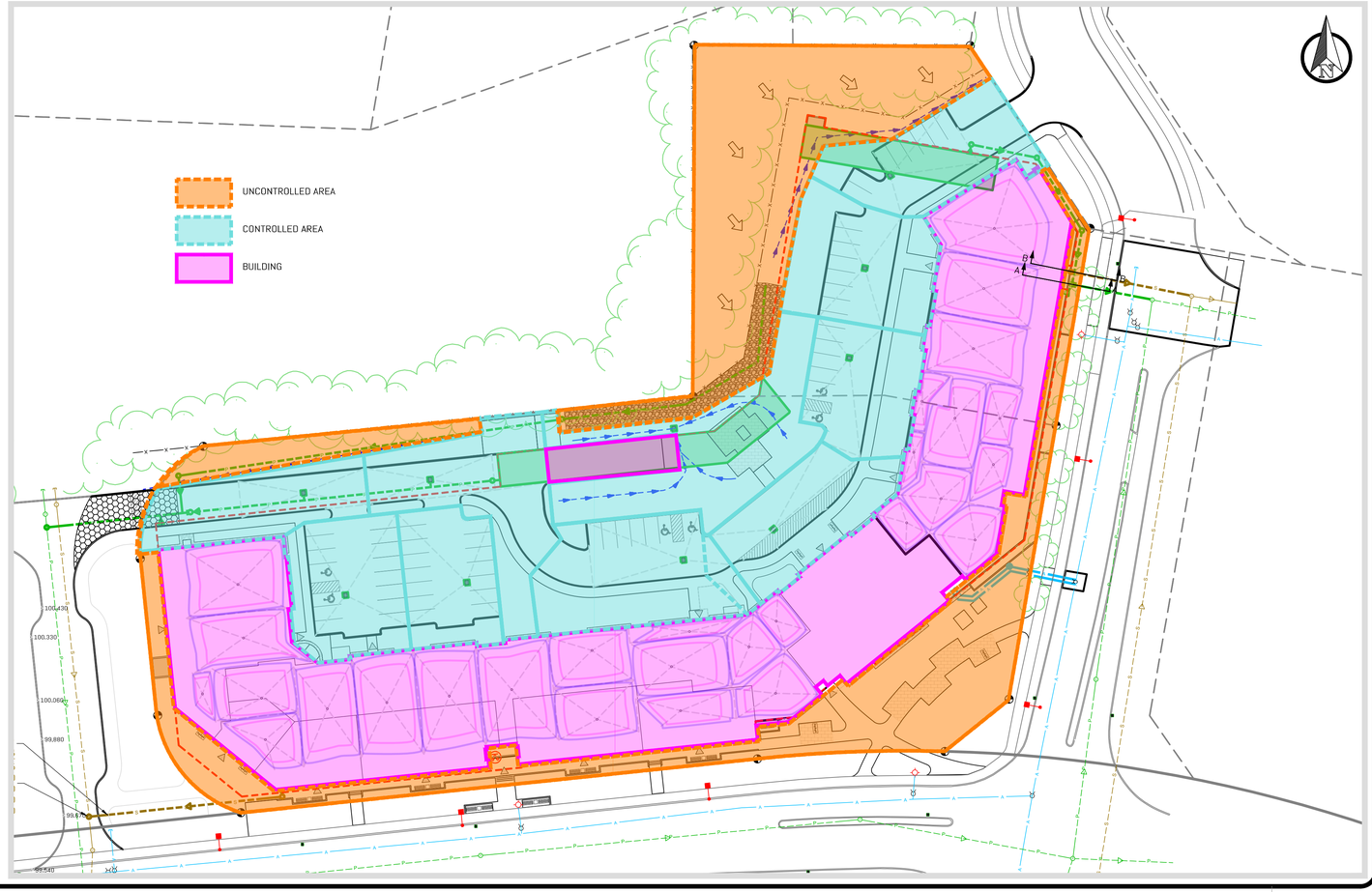
Pipe	Type	Invert (m)	Difference (m)
Stormwater pipe	300mm PVC	93.400	0.58
Sanitary pipe	250 mm PVC	94.280	

STRUCTURE TABLE - STORM SEWER

NAME	DETAILS	ELEVATIONS/INVERTS
ST-MH-01	1200mm FLOWRATE REGULATOR	INV.IN: 93.400 INV. OUT: 93.400 SUMP: 92.950
ST-MH-02	915mm	INV.IN: 93.460 INV. OUT: 93.460 SUMP: 93.460
ST-MH-03	915mm	INV.IN: 93.540 INV. OUT: 93.540 SUMP: 93.540
ST-MH-04	915mm	INV.IN: 93.590 INV. OUT: 93.590 SUMP: 93.590
ST-MH-05	915mm	INV.IN: 96.090 INV. OUT: 96.090 SUMP: 96.090
ST-MH-06	1200mm FLOWRATE REGULATOR	INV.IN: 95.9400 INV. OUT: 95.940 SUMP: 94.950
ST-MH-07	915mm	INV.IN: 95.900 INV. OUT: 95.900 SUMP: 95.900
ST-MH-08	915mm	INV.IN: 96.100 INV. OUT: 96.100 SUMP: 96.100
ST-MH-09	915mm	INV.IN: 99.100 INV. OUT: 98.500 SUMP: 98.500

STRUCTURE TABLE - STORM SEWER

NAME	DETAILS	ELEVATIONS/ INVERTS	AREA (ha)	5-YR COEFICIENT	100-YR COEFICIENT
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	0.799	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



REV	DESCRIPTION	BY	DATE
J	FOR SITE PLAN APPLICATION REVISION 9	B.B.	2023-03-16
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: emd batimo CONSTRUCTION PROMOTEUR ET GESTIONNAIRE IMMOBILIER

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

ÉQUIPE LAURENCE INGÉNIERIE CIVILE
733, chemin Jean-Adam, Piedmont (Québec) J0R 1R3
T 450 227 1857
info@equipelaurence.ca | equipelaurence.ca

LICENSED PROFESSIONAL ENGINEER
B. BRAY
100568973
PROVINCE OF ONTARIO
2023-03-17

TITLE:
SITE SERVICING PLAN
AND DRAINAGE AREA

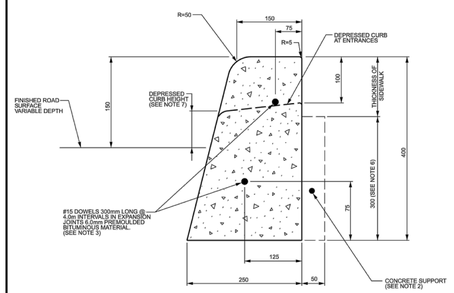
SCALE:

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

D07-12-21-0163

18603

F:\EQL PROJETS\600401\5_Plans\C-204.dwg, 2023-03-17 7:23:40 PM, bbray



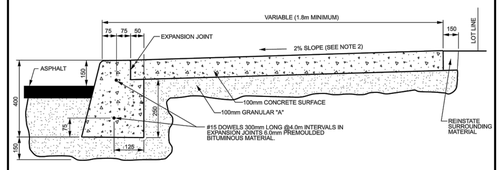
CONCRETE BARRIER CURB

NOTES:

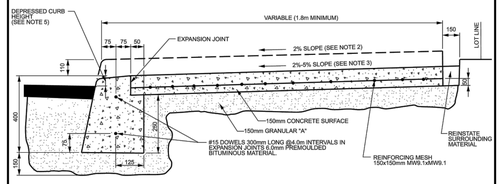
1. THE FULL CURB DEPTH SHALL BE CARRIED THROUGH THE DEPRESSED ACCESS CROSSING.
2. A CONCRETE SUPPORT IS REQUIRED WHEN BUILT ADJACENT TO THE SIDEWALK.
3. IF AN EXTRUSION CURBING MACHINE IS USED, THE EXPANSION BITUMINOUS MATERIAL AND THE #15 DOWELS ARE TO BE PLACED AT THE END OF THE EXTRUSION.
4. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
5. DUMMY JOINTS SHALL BE 25mm DEEP, FRONT, BACK AND TOP OF SECTION AT 4m SPACING OR MATCH JOINTING WHERE SIDEWALK IS ADJACENT.
6. FOR DEPRESSED CURB AT ENTRANCES USE 250.
7. DEPRESSED CURB HEIGHT - FOR PEDESTRIAN CURB RAMPS 0 TO 6 mm AND FOR PRIVATE ENTRANCES 0 TO 13mm.

N.T.S.

Ottawa	CONCRETE BARRIER CURB FOR GRANULAR BASE PAVEMENT (MODIFIED OPSD-600.110)	DATE:	JANUARY 2003
		REV. DATE:	MARCH 2021
		DWG. No.:	SC1.1



TYPICAL SIDEWALK SECTION



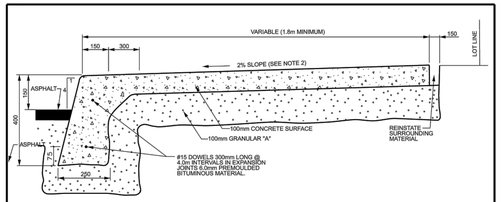
SECTION AT PRIVATE ENTRANCE AND PEDESTRIAN RAMPS

NOTES:

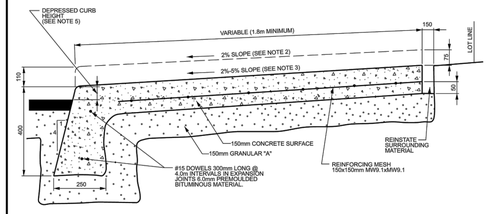
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
2. THE MAXIMUM SLOPE IS NOT TO EXCEED 2%.
3. FOR CURB RAMPS, SLOPE OF 2% TO 5%, MAXIMUM 8%..
4. EXPANSION AND DUMMY JOINTS AS PER SC5.
5. DEPRESSED CURB HEIGHT - FOR PEDESTRIAN CURB RAMPS 0 TO 6 mm AND FOR PRIVATE ENTRANCES 0 TO 13 mm.

N.T.S.

Ottawa	CONCRETE BARRIER CURB WITH SIDEWALK	DATE:	JANUARY 2003
		REV. DATE:	MAY 2021
		DWG. No.:	SC1.4



TYPICAL SIDEWALK SECTION



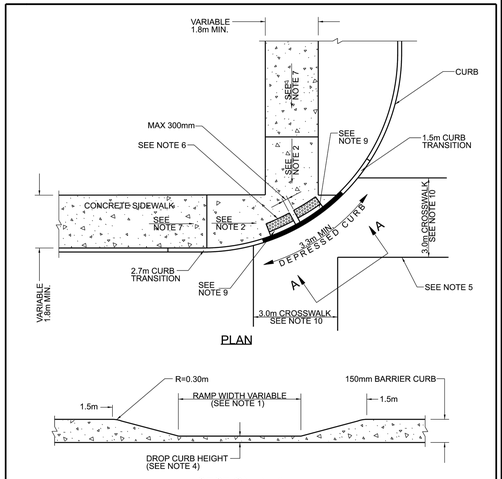
SECTION AT PRIVATE ENTRANCE AND PEDESTRIAN RAMPS

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
2. THE MAXIMUM SLOPE IS NOT TO EXCEED 2%.
3. FOR CURB RAMPS, SLOPE OF 2% TO 5%, MAXIMUM 8%..
4. EXPANSION AND DUMMY JOINTS AS PER SC5.
5. DEPRESSED CURB HEIGHT - FOR PEDESTRIAN CURB RAMPS 0 TO 6 mm AND FOR PRIVATE ENTRANCES 0 TO 13 mm.

N.T.S.

Ottawa	MONOLITHIC CONCRETE CURB AND SIDEWALK	DATE:	MAY 2001
		REV. DATE:	MAY 2021
		DWG. No.:	SC2



PLAN

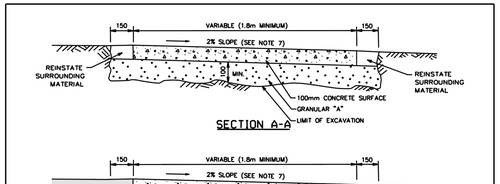
SECTION A - A

NOTES:

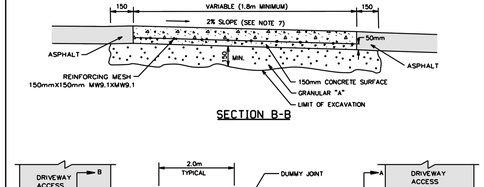
1. CURB RAMP WIDTH MATCH SIDEWALK WIDTH, BE A MINIMUM OF 1.5m WIDE.
2. FOR TRANSITION AREA, MAXIMUM SLOPE OF 2%.
3. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
4. DEPRESSED CURB HEIGHT SHALL BE 0 TO 6mm FOR PEDESTRIAN CURB RAMPS AND 0 TO 25mm FOR PRIVATE ENTRANCES, OR EQUAL HEIGHT OF CROSSWALK WHERE APPLICABLE.
5. SUBJECT TO AVOIDANCE OF MEDIANS, CROSSWALK LINES TO CENTRED ON THE CURB RAMP.
6. APPROVED 610 x WIDTH OF CURB RAMP (1500 MIN.) TACTILE WALKING SURFACE INDICATOR (TWSI), RADIUS TO MATCH CURB. DRAIN GROOVES ASPER SC7.
7. FOR CURB RAMPS SLOPE OF 2% TO 5% MAXIMUM 8%.
8. FOR RETROFIT APPLICATIONS ONLY.
9. 150 TO 200mm GAP. FOR MONOLITHIC SIDEWALK, TWSI SHALL BE 300 TO 350mm BACK FROM CURB FACE.
10. REFER TO R15 AND 15.1 FOR RAISED CROSSWALK AND R15.2 AT - GRADE CONCRETE CROSSWALK.

N.T.S.

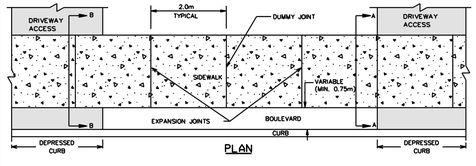
Ottawa	PEDESTRIAN CURB RAMP AT INTERSECTION WITH BOULEVARD AND ADJACENT SIDEWALK	DATE:	MARCH 2007
		REV. DATE:	MARCH 2022
		DWG. No.:	SC7.2



SECTION A-A



SECTION B-B

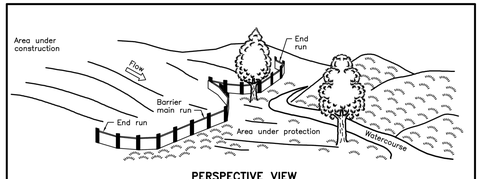


PLAN

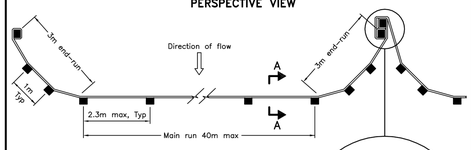
NOTES:

1. CONCRETE AND GRANULAR "A" IS TO BE INCREASED TO 150mm AT THE ENTRANCE AND 150x150mm MW9.1 x MW9.1 REINFORCING MESH IS TO BE PLACED MID DEPTH WITHIN DRIVEWAY ACCESS.
2. TRANSVERSE EXPANSION JOINTS ARE REQUIRED AT THE ENDS, THE MIDPOINT, AT INTERVALS OF 4m MAXIMUM, AND ALSO TO ISOLATE OBSTRUCTIONS FROM SIDEWALK, HYDRANTS, POLES, BUILDINGS, ETC.
3. WHEN THE OVERALL SIDEWALK WIDTH EXCEEDS 2.5m, A LONGITUDINAL CONSTRUCTION JOINT SHALL BE CREATED AT ITS MIDPOINT.
4. EDGES AND JOINTS ARE TO BE FINISHED WITH A 75mm EDGING TOOL.
5. ALL CONCRETE SIDEWALKS ARE TO HAVE A BROOM FINISH UNLESS OTHERWISE SPECIFIED.
6. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
7. THE MAXIMUM SLOPE IS NOT TO EXCEED 2%.
8. INSTALL DUMMY TRANSVERSE JOINTS AS REQUIRED SO THERE IS A MAXIMUM SPACING OF 2m BETWEEN ALL JOINTS.
9. SIDEWALK NOT TO BE DEPRESSED ACROSS DRIVEWAY ACCESSES.
10. EXPANSION AND DUMMY JOINTS AS PER SC5

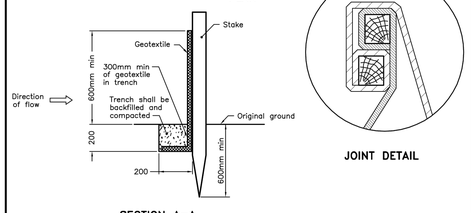
Ottawa	TYPICAL CONCRETE SIDEWALK IN BOULEVARD	DATE:	MAY 2001
		REV. DATE:	MARCH 2016
		DWG. No.:	SC4



PERSPECTIVE VIEW



PLAN



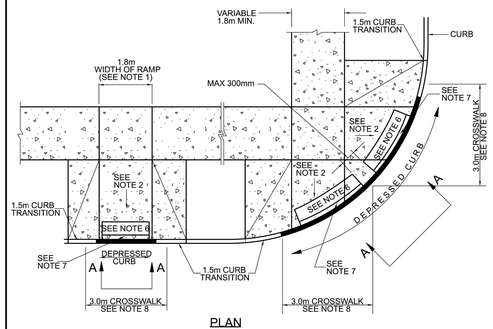
SECTION A–A

JOINT DETAIL

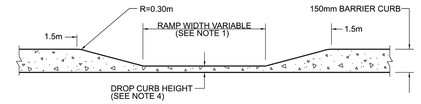
NOTE:
A All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING		Nov 2015	Rev 2
LIGHT–DUTY SILT FENCE BARRIER			
		OPSD 219.110	

FOR CURB RAMP APPLICATION FOR DEPRESSED CORNER APPLICATION



PLAN



SECTION A - A

NOTES:

1. CURB RAMP WIDTH MATCH SIDEWALK WIDTH, BE A MINIMUM OF 1.5m WIDE.
2. FOR CURB RAMPS SLOPE OF 2% TO 5% MAXIMUM 8%.
3. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
4. DEPRESSED CURB HEIGHT SHALL BE 0 TO 6mm FOR PEDESTRIAN CURB RAMPS AND 0 TO 25mm FOR PRIVATE ENTRANCES, OR EQUAL HEIGHT OF CROSSWALK WHERE APPLICABLE.
5. SUBJECT TO AVOIDANCE OF MEDIANS, CROSSWALK LINES TO CENTRED ON THE CURB RAMP.
6. APPROVED 610 x WIDTH OF CURB RAMP (1500 MIN.) TACTILE WALKING SURFACE INDICATOR (TWSI), RADIUS TO MATCH CURB. ALL TWSI'S SHALL HAVE 6mm WIDE AND 6mm DEEP DRAIN GROOVES AT CORNERS BETWEEN TWSI AND CURB. PANEL JOINTS MAY BE ADAPTED FOR USE IF TOUCHING. TOP OF TWSI SHALL BE ALIGNED AND LEVEL WITH ADJACENT SURFACE.
7. 150 TO 200 GAP FOR MONOLITHIC SIDEWALK, TWSI SHALL BE 300 TO 350mm BACK FROM CURB SURFACE.
8. REFER TO R15 AND R15.1 FOR RAISED CROSSWALK AND R15.2 AT - GRADE CONCRETE CROSSWALK.

N.T.S.

Ottawa	PEDESTRIAN CURB RAMP WITH BOULEVARD	DATE:	MAY 2001
		REV. DATE:	MARCH 2022
		DWG. No.:	SC7

REV	DESCRIPTION	BY	DATE
J	FOR SITE PLAN APPLICATION REVISION 9	B.B.	2023-03-16
I	FOR SITE PLAN APPLICATION REVISION 8	B.B.	2023-03-08
H	FOR SITE PLAN APPLICATION REVISION 7	B.B.	2023-02-02
G	FOR SITE PLAN APPLICATION REVISION 6	A.L.	2022-09-16
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
C	FOR SITE PLAN APPLICATION REVISION 2	A.L.	2021-10-07
B	FOR SITE PLAN APPLICATION REVISION 1	A.L.	2021-09-24
A	FOR SITE PLAN APPLICATION	A.L.	2021-09-17

CLIENT:
emd batimo CONSTRUCTION PROMOTEUR ET GESTIONNAIRE IMMOBILIER

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

ÉQUIPE LAURENCE INGÉNIERIE CIVILE
733, chemin Jean-Adam, Piedmont (Québec) J0R 1R3
T 450 227 1857
info@equipelaurence.ca | equipelaurence.ca

LICENSED PROFESSIONAL ENGINEER
B. BRAY
100568973
PROVINCE OF ONTARIO
2023-03-17

TITLE:
STANDARD SECTIONS AND DETAILS

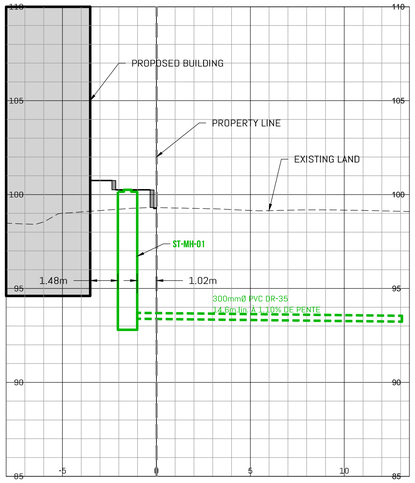
SCALE:
NO SCALE

B. BRAY, ing. P. Eng / F. Lacroix CPI		C-205.dwg	
DESIGN		DRAWING	
J.QUESNEL		2021-09-15	
DRAWN		DATE	
B. BRAY, ing. P. Eng.		600401	C-205
APPROVED		PROJECT NO	PLAN NO

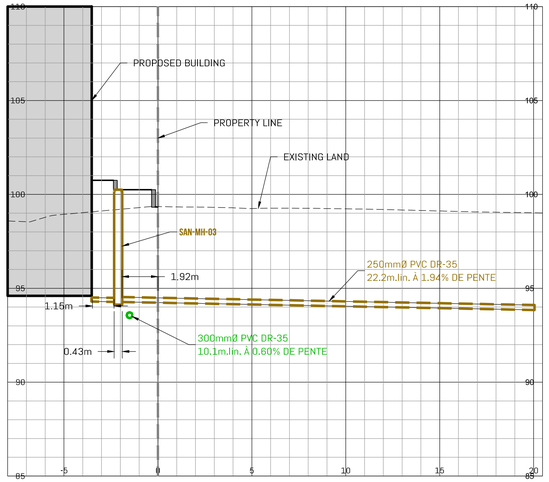
D07-12-21-0153

18603

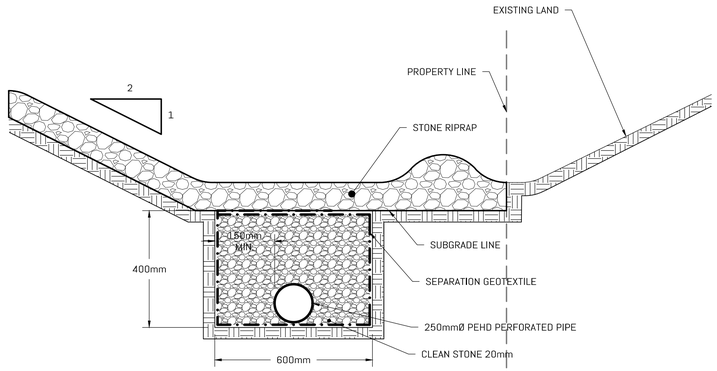
F:\EQL PROJETS\600401\5_Plans\C-205.dwg, 2023-03-17 7:24:08 PM, bbray



SECTION CUT A - A



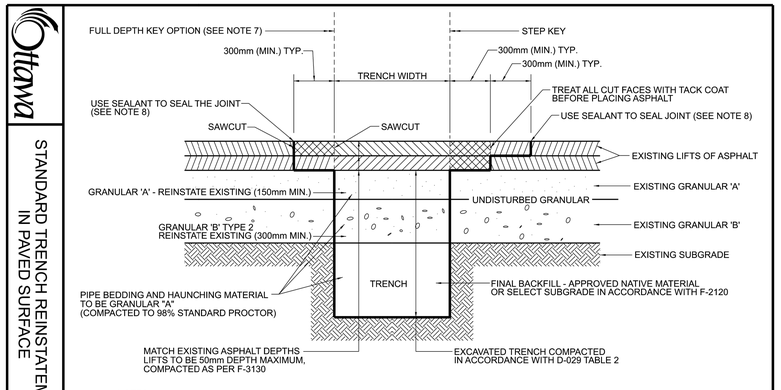
SECTION CUT B - B



NOTES:

END OF PERFORATED PIPE MUST BE CAPPED.

TRENCH DRAIN AND SEDIMENT BARRIER



NOTES:

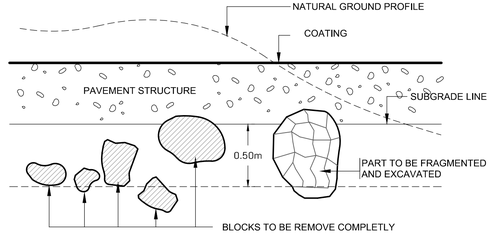
1. ALL EXISTING ASPHALT TO BE SAW CUT.
2. UNLESS SPECIFIED ELSEWHERE, SURFACE COURSE ASPHALT SUPERPAVE 12.5mm AND BASE COURSE ASPHALT SUPERPAVE 19.0mm IS TO BE USED.
3. UNLESS SPECIFIED ELSEWHERE, ASPHALT MIX SHALL BE LEVEL B (PG58-34) FOR NON-BUS LOCAL ROADS, AND LEVEL D (PG 64-34) FOR ALL OTHER ROADS.
4. UNLESS SPECIFIED ELSEWHERE, WHERE EXISTING PAVEMENT STRUCTURE EXCEEDS 150mm IN DEPTH, ASPHALT REINSTATEMENT SHALL BE 150mm AND GRANULAR "A" FOR THE REMAINDER.
5. UNLESS SPECIFIED ELSEWHERE, WHERE AN UNDERLYING LAYER OF CONCRETE PAVEMENT EXISTS, REINSTATEMENT SHALL CONSIST OF 150mm OF SUPERPAVE 19.00mm LEVEL B (PG58-34) COMPACTED IN LIFTS.
6. UNLESS SPECIFIED ELSEWHERE, HOT MIX ASPHALT PLACEMENT AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH F-3130.
7. STEP KEY REINSTATEMENT TO BE IMPLEMENTED UNLESS FULL DEPTH KEY OPTION APPROVED BY THE CITY.
8. ALL EDGES TO BE ROUTED AND SEALED WITH A BEAD OF HOT RUBBERIZED ASPHALT JOINT SEALING COMPOUND.

Ottawa

STANDARD TRENCH REINSTATEMENT IN PAVED SURFACE

DWG. No.:	R10	REVISED DATE:	MARCH 2022
		DATE:	MAY 2001

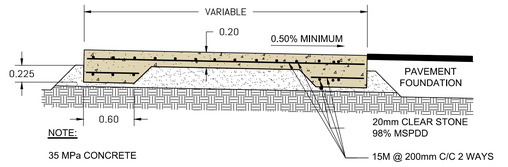
N.T.S.



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 BLOCS, 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 500XL OR EQUIVALENT, MAY BE PLACED OVER SPONGY AREAS PRIOR TO PLACING THE GRANULAR "B" SUB-BASE LAYER.

SUBGRADE PREPARATION DETAIL

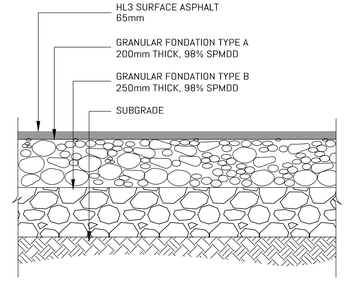


NOTE:

35 MPa CONCRETE

STATISTICAL STRENGTH TEST ANALYSIS TO CONFIRM THE STRENGTH LEVEL INCLUDING THE EXPECTED 7/28-DAY STRENGTH RATIO (AS PER CSA A23.1 CLAUSE 4.4.6.7)

REINFORCED CONCRETE SLAB FOR GARBAGE CONTAINERS



PARKING AND ACCESS FOUNDATION ASPHALT SURFACE

(TO BE VERIFIED BY GEOTECHNICAL ENGINEER)

REV	DESCRIPTION	BY	DATE
J	FOR SITE PLAN APPLICATION REVISION 9	B.B.	2023-03-16
I	FOR SITE PLAN APPLICATION REVISION 8	B.B.	2023-03-08
H	FOR SITE PLAN APPLICATION REVISION 7	B.B.	2023-02-02
G	FOR SITE PLAN APPLICATION REVISION 6	A.L.	2022-09-16
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

CLIENT:

emd batimo CONSTRUCTION PROMOTEUR ET GESTIONNAIRE IMMOBILIER

PROJECT:

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

ÉQUIPE LAURENCE INGÉNIERIE CIVILE

733, chemin Jean-Adam, Piedmont (Québec) J0R 1R3
T 450 227 1857
info@equipelaurence.ca | equipelaurence.ca

LICENSED PROFESSIONAL ENGINEER
B. BRAY
100568973
PROVINCE OF ONTARIO
2023-03-17

TITLE:

STANDARD SECTIONS AND DETAILS II

SCALE: NO SCALE

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

D07-12-21-0163

18603

F:\EQL PROJETS\600401\5_Plans\C-206.dwg, 2023-03-17 7:24:21 PM, bbray

REV	DESCRIPTION	BY	DATE
J	FOR SITE PLAN APPLICATION REVISION 9	B.B.	2023-03-16
I	FOR SITE PLAN APPLICATION REVISION 8	B.B.	2023-03-08
H	FOR SITE PLAN APPLICATION REVISION 7	B.B.	2023-02-02
G	FOR SITE PLAN APPLICATION REVISION 6	A.L.	2022-09-16
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

CLIENT:
emd batimo CONSTRUCTION PROMOTEUR ET GESTIONNAIRE IMMOBILIER

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

ÉQUIPE LAURENCE INGÉNIERIE CIVILE
733, chemin Jean-Adam, Piedmont (Québec) J0R 1R3
T 450 227 1857
info@equipelaurence.ca | equipelaurence.ca

LICENSED PROFESSIONAL ENGINEER
B. BRAY
100568973
PROVINCE OF ONTARIO
2023-03-17

TITLE:
FIRE HYDRANT COVERAGE MAP

SCALE: Horizontale 1:1000 (0, 10, 20, 50m)

B. BRAY, ing. P. Eng / F. Lacroix CPI	DESIGN	C-207.dwg	DRAWING
J.QUESNEL	DRAWN	2021-09-15	DATE
B. BRAY, ing. P. Eng.	APPROVED	600401	PROJECT NO
		C-207	PLAN NO

18603

DD7-12-21-0153

F:\EQL PROJETS\60040115_Plans\C-207.dwg, 2023-03-17 7:24:38 PM, bbray