
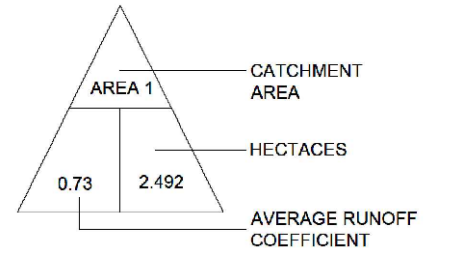
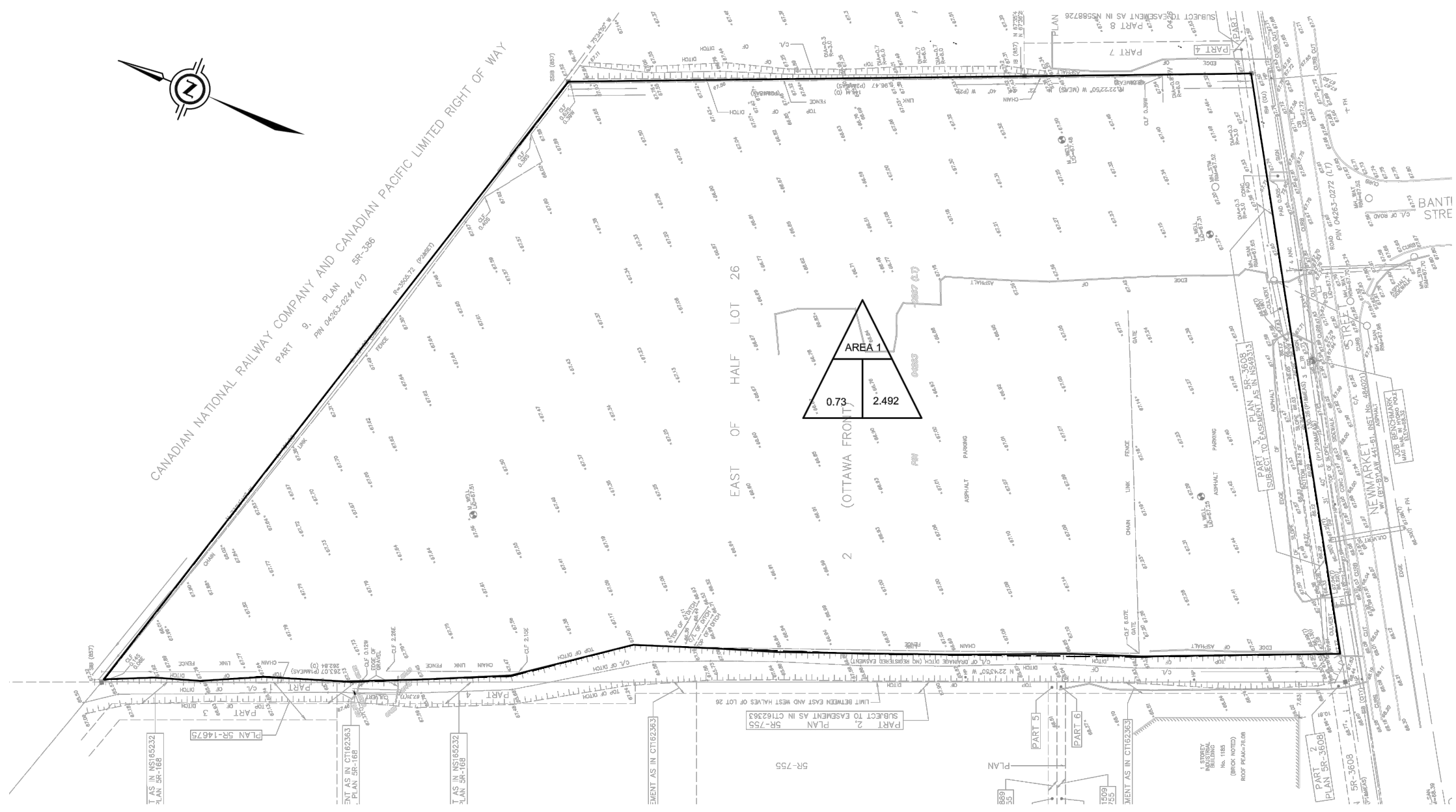
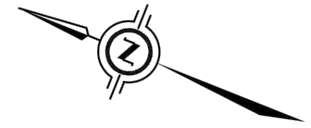




Photo by Google map

Legend

 - Property limit



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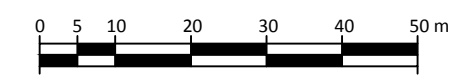
Project  
**1195 NEWMARKET STREET**

Property located at 1195 NEWMARKET STREET  
 OTTAWA, ONTARIO

Client  
**OTTAWA**

Prepared :	P. Fhima Eng.	O/Ref.:	18551
Drawing :	H.Sun	File name :	D07-12-21-0114
Verified :	P. Fhima Eng.	Date :	10-25-2021
Accepted :	P. Fhima Eng.	Scale :	1 : 1000

Drawing title	Figure
<b>PRE-DEVELOPMENT CATCHMENT AREA PLAN</b>	<b>1</b>



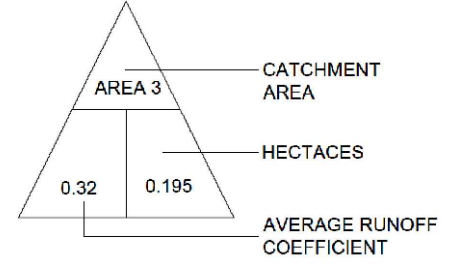
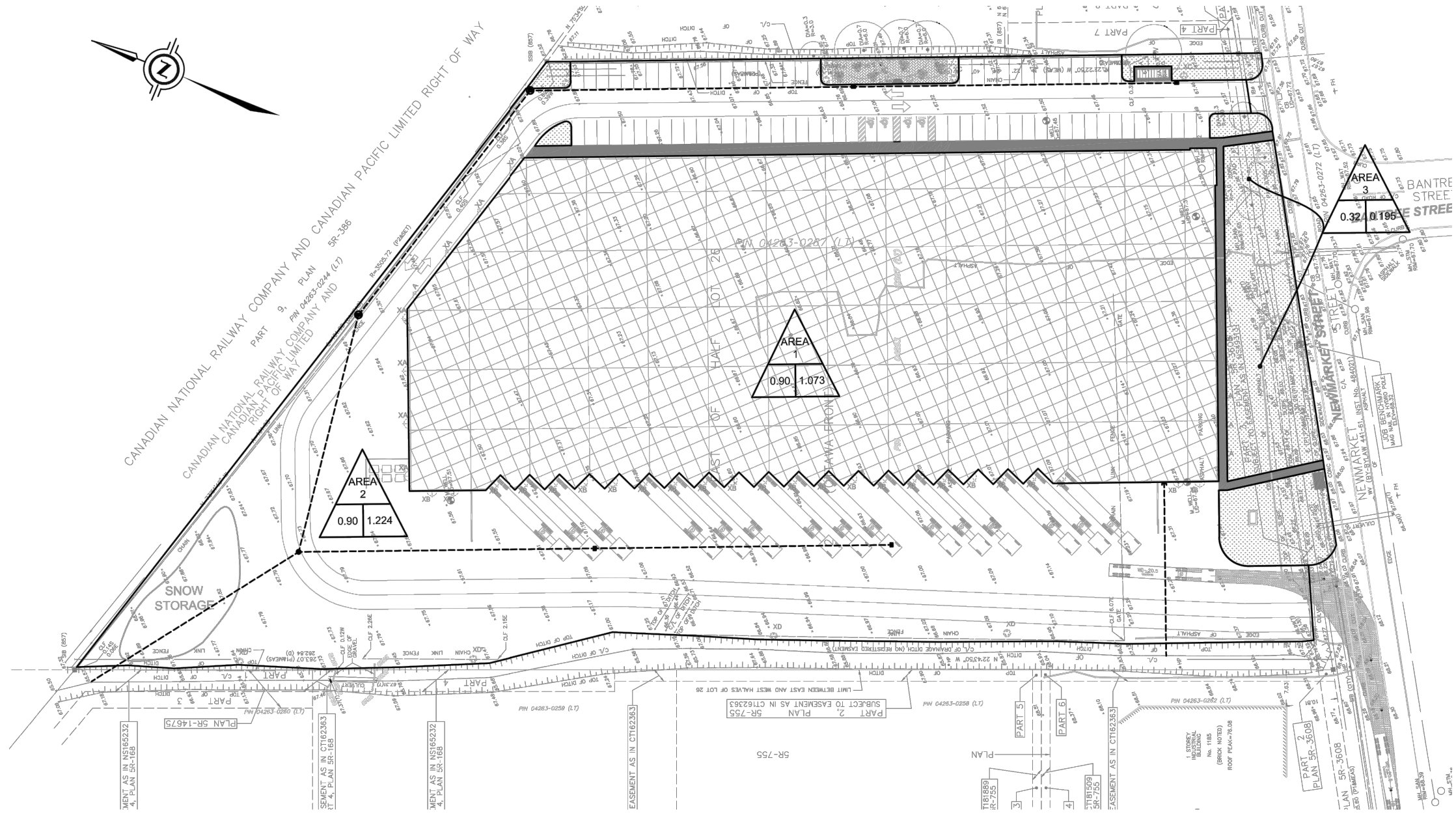
**PRE-DEVELOPMENT CATCHMENT AREA PLAN**



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— — — — — Property limit



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Drawing title  
**PRE-DEVELOPMENT CATCHMENT AREA PLAN**

Figure  
**2**

**POST DEVELOPMENT CATCHMENTS AREA PLAN**

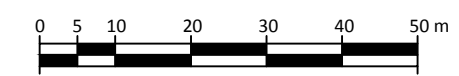









Photo by Google map

Legend

-  - Property limit
-  - CLEAR STONE
-  - HEAVY-DUTY SILT FENCE



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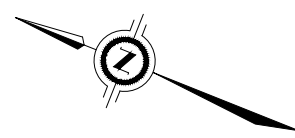
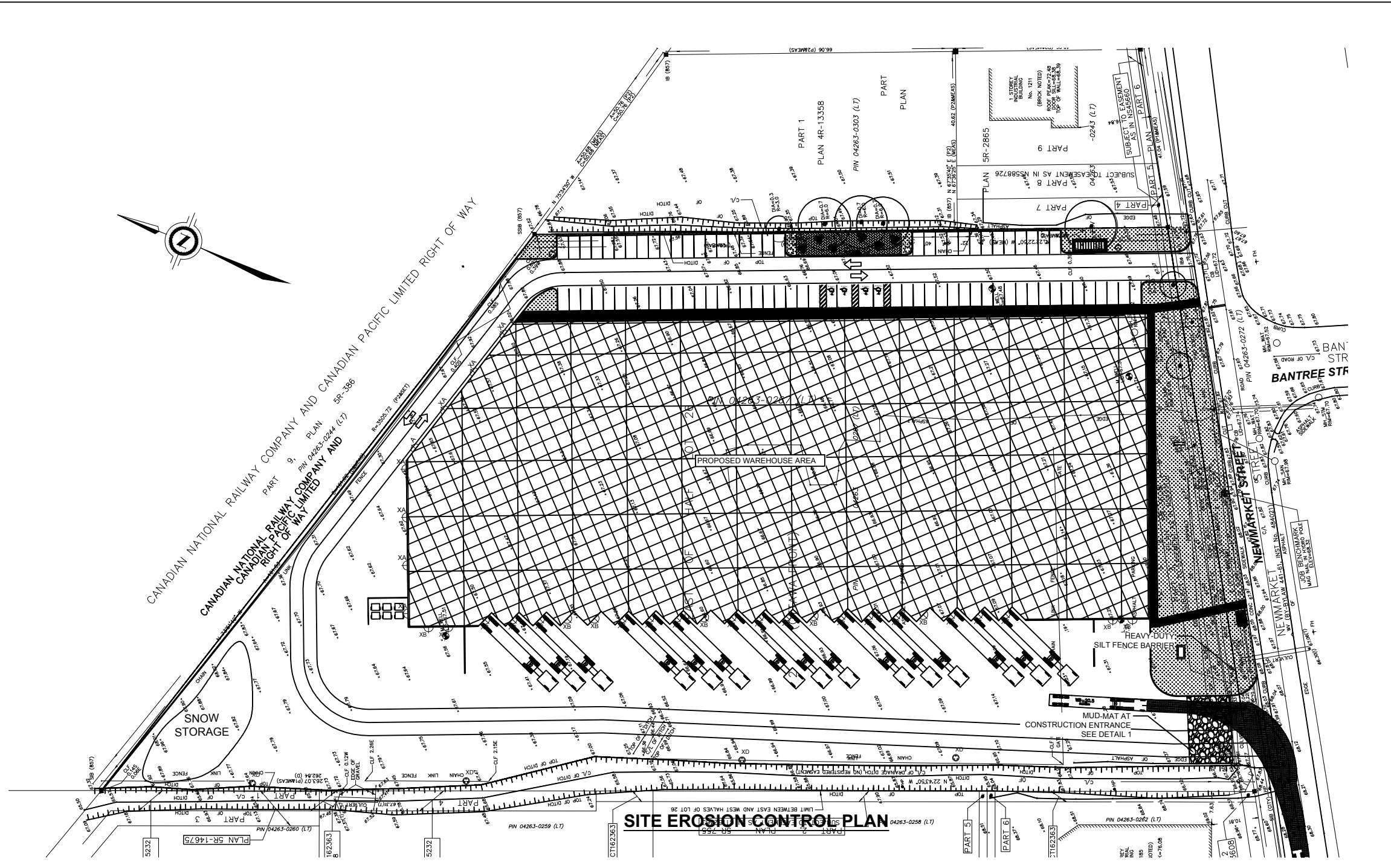
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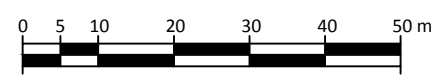
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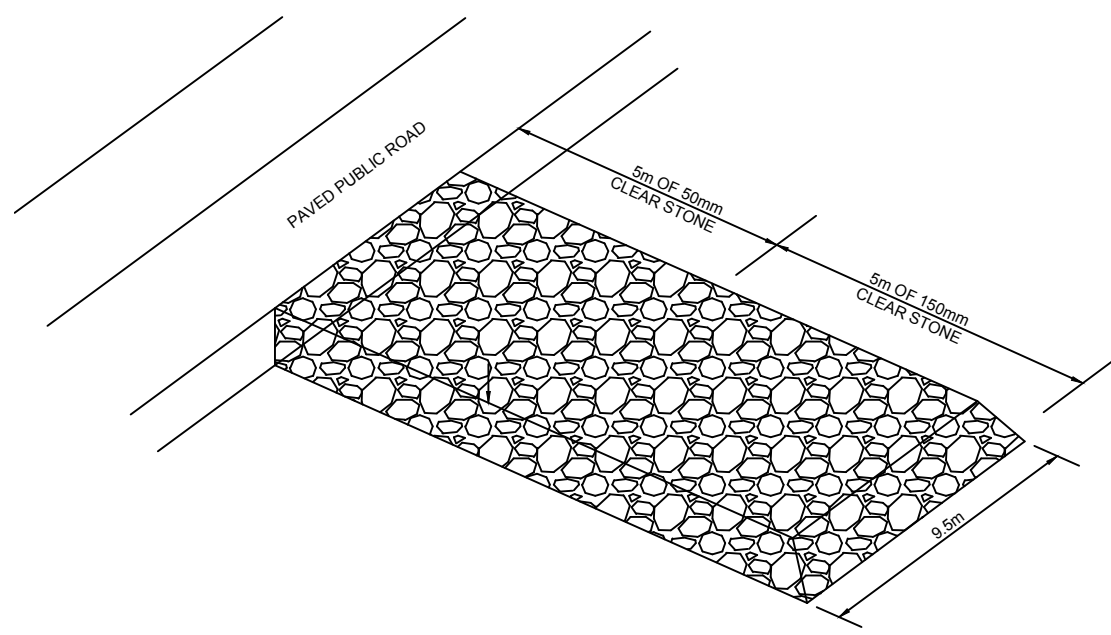
Drawing title	Figure
<b>SITE EROSION CONTROL PLAN</b>	<b>3</b>



NOTES:

1. ALL ELEVATIONS AND STATIONS ARE IN METERS. DIMENSIONS ARE IN MILLIMETERS.
2. THIS SET OF DRAWINGS IS FOR THE PURPOSE OF THE SITE EROSION CONTROL.
3. FOR THE INFORMATION OF THE SITE PLAN, TOPOGRAPHIC, PROPERTY BOUNDARY, AND SET BACK PLEASE REFER TO THE RELEVANT DOCUMENTS FROM THE CLIENT.
4. ALL SEDIMENT AND SILTATION CONTROL MEASURES SHALL BE IMPLEMENTED BY CONTRACTOR PRIOR TO THE COMMENCEMENT OF SITE GRADING WORKS, TO THE SATISFACTION OF THE CITY OF OTTAWA.
5. IF CONSTRUCTION IS INTERRUPTED FOR MORE THAN 30 DAYS, STRIPED AND BARE AREAS SHALL BE STABILIZED BY SEEDING.
6. SEDIMENT CONTROL DEVICES SHALL BE INSPECTED AFTER EACH SIGNIFICANT RAINFALL AND/OR WEEKS.
7. SEDIMENT CONTROL MEASURES SHALL BE REPAIRED, OR REPLACED AS NECESSARY, OR AS REQUIRED BY THE CITY OF OTTAWA.
8. THE CONTRACTOR SHALL CONSTRUCT AN ACCESS DRIVEWAY TO THE SATISFACTION OF THE CITY OF OTTAWA.
9. THE MUNICIPAL ROAD MUST BE KEPT CLEAN OF MUD AND DIRT AS REQUIRED BY THE CITY OF OTTAWA.
10. A SILT FENCE AS PER THE CITY OF OTTAWA ENGINEERING STANDARD MUST BE INSTALLED AROUND THE PERIMETER OF THE PROPERTY.
12. ALL OVERLAND DRAINAGE WILL BE GUIDED INTO DRY POND FOR SEDIMENTATION AND THEN DISCHARGE INTO THE DITCH DURING THE CONSTRUCTION.
11. ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH OPSS AND OPSD REQUIREMENTS AND TO THE REQUIREMENTS OF THE CITY OF OTTAWA.

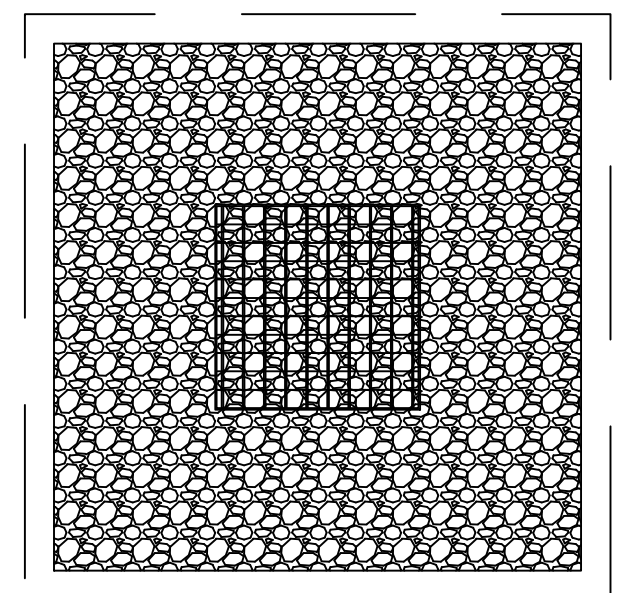




\*TEMPORARY ACCESS MUD-MAT. CLEAR STONE MUD-MAT TO BE MAINTAINED DURING THE CONSTRUCTION.

**DETAIL 1 - MUD MAT DETAIL**

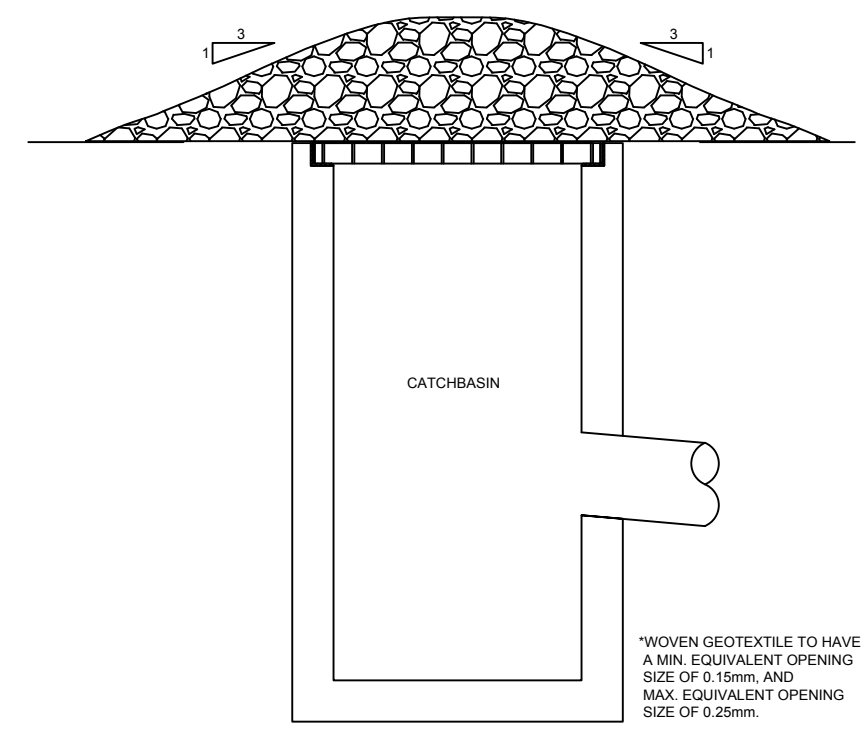
N.T.S.



\*WOVEN GEOTEXTILE TO HAVE A MIN. EQUIVALENT OPENING SIZE OF 0.15mm, AND MAX. EQUIVALENT OPENING SIZE OF 0.25mm.

**DETAIL 2 - SITE CATCHBASIN SEDIMENT BARRIER (PLAN)**

N.T.S.



\*WOVEN GEOTEXTILE TO HAVE A MIN. EQUIVALENT OPENING SIZE OF 0.15mm, AND MAX. EQUIVALENT OPENING SIZE OF 0.25mm.

**DETAIL 2 - SITE CATCHBASIN SEDIMENT BARRIER (SECTION)**

N.T.S.

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Photo by Google map

**Legend**

- - Property limit
- CLEAR STONE
- HEAVY-DUTY SILT FENCE



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Project  
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Client  
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Drawing :	H.Sun	File name :	D07-12-21-0114
Verified :	P. Fhima Eng.	Date :	10-25-2021
Accepted :	P. Fhima Eng.	Scale :	NTS

Drawing title	Figure
<b>SITE EROSION CONTROL DETAILS</b>	<b>4</b>





Photo by Google map

- Legend**
- - Property limit
  - MINOR STORM FLOW OVERLAND DIRECTION
  - ⇄ MAJOR STORM OVERLAND FLOW DIRECTION
  - GRADING CONTROL POINT AND ELEVATION
  - PROPOSED CATCHBASIN
  - PROPOSED OIL/GRIT SEPARATOR
  - PROPOSED MAINTENANCE HOLE AND CATCHBASIN



- NOTES:**
1. ALL ELEVATIONS and STATIONS ARE IN METERS. DIMENSIONS ARE IN MILLIMETERS.
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  3. FOR THE INFORMATION OF THE SITE PLAN, TOPOGRAPHIC, PROPERTY BOUNDARY, AND SET BACK PLEASE REFER TO THE RELEVANT DOCUMENTS FROM THE CLIENT.
  4. LOADING DOCK HEIGHTS ARE 48".
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Project  
**1195 NEWMARKET STREET**

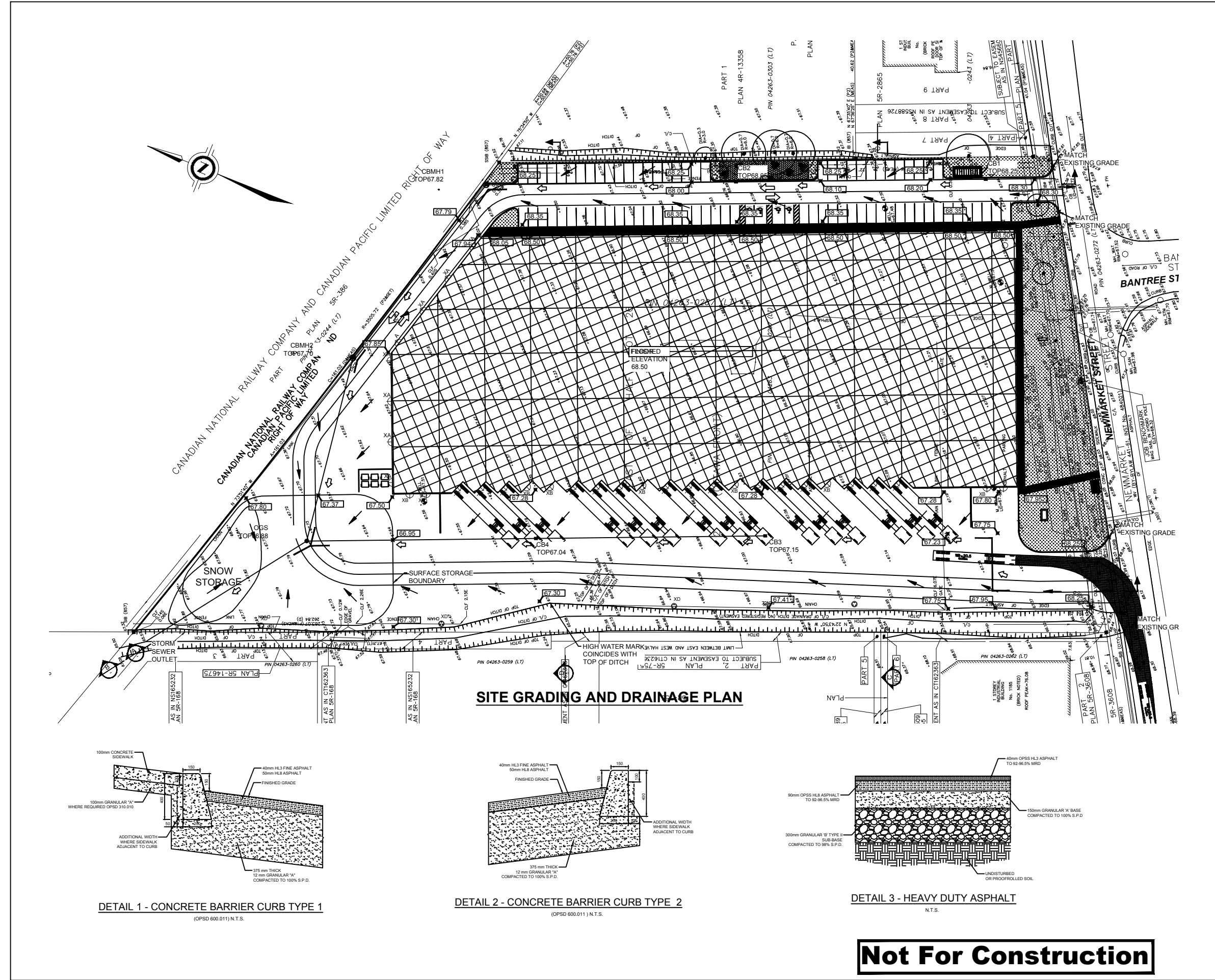
Property located at 1195 NEWMARKET STREET  
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Client  
**OTTAWA**

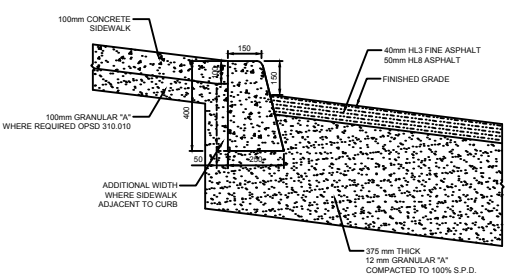
Prepared : P. Fhima Eng. O/Ref.: 18551  
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 Accepted : P. Fhima Eng. Scale : NTS

Drawing title  
**SITE GRADING AND DRAINAGE** Figure  
**5**

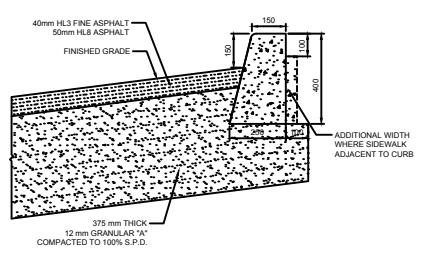
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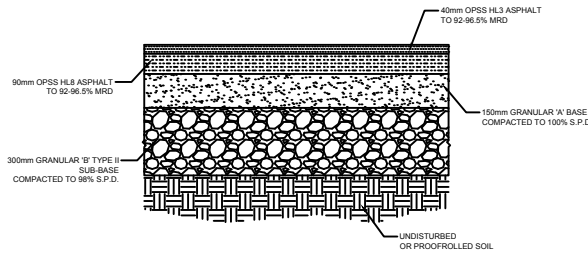
**SITE GRADING AND DRAINAGE PLAN**



**DETAIL 1 - CONCRETE BARRIER CURB TYPE 1**  
 (OPSD 600.011) N.T.S.



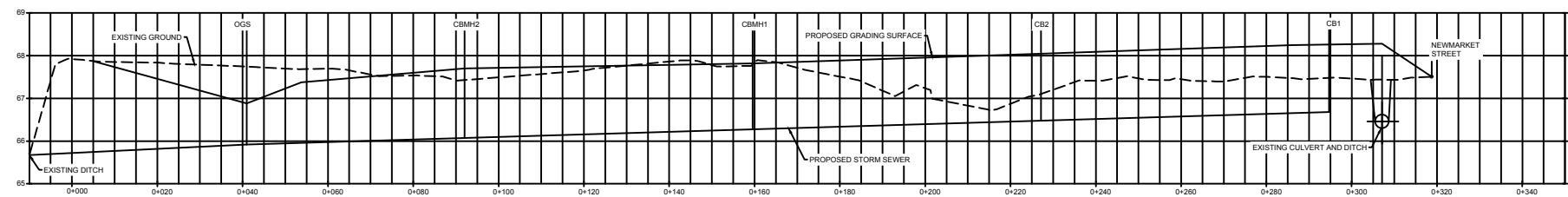
**DETAIL 2 - CONCRETE BARRIER CURB TYPE 2**  
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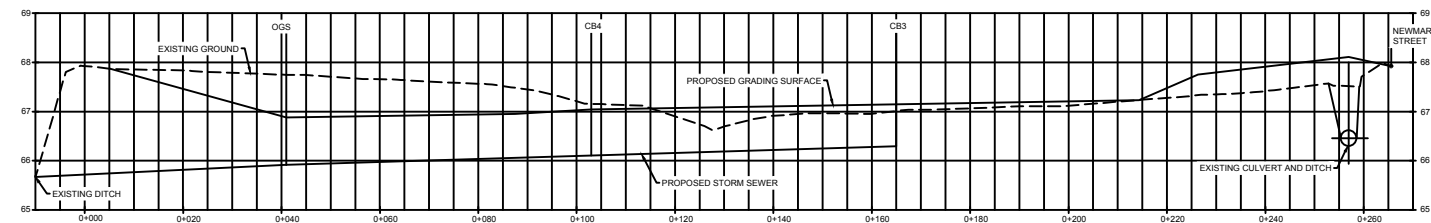
**DETAIL 3 - HEAVY DUTY ASPHALT**  
 N.T.S.



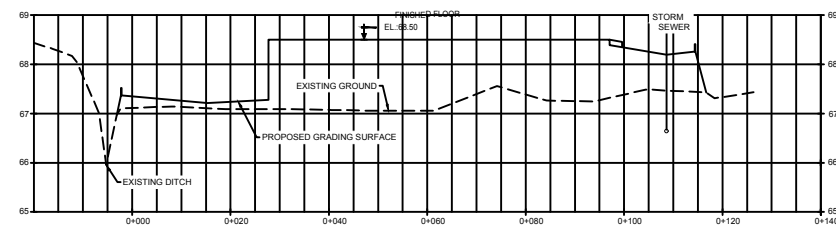
Photo by Google map



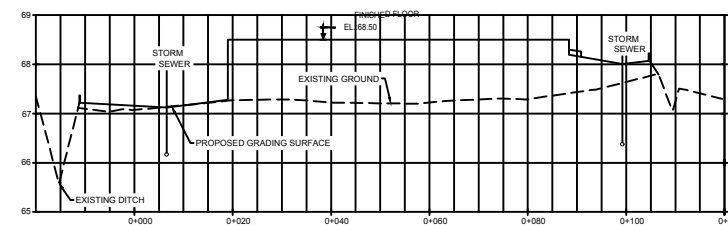
SECTION A - A  
H1:500, V1:50



SECTION B - B  
H1:500, V1:50



SECTION C - C  
H1:500, V1:50



SECTION D - D  
H1:500, V1:50

- Legend
- - Property limit
  - MINOR STORM FLOW OVERLAND DIRECTION
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  - GRADING CONTROL POINT AND ELEVATION
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- NOTES:
- ALL ELEVATIONS AND STATIONS ARE IN METERS. DIMENSIONS ARE IN MILLIMETERS.
  - THIS SET OF DRAWINGS IS FOR THE PURPOSE OF THE SITE GRADING.
  - FOR THE INFORMATION OF THE SITE PLAN, TOPOGRAPHIC, PROPERTY BOUNDARY, AND SET BACK PLEASE REFER TO THE RELEVANT DOCUMENTS FROM THE CLIENT.
  - LOADING DOCK HEIGHTS ARE 48".
  - ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH OPSS AND OPSD REQUIREMENTS AND TO THE REQUIREMENTS OF THE CITY OF OTTAWA.

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Project  
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Accepted :	P. Fhima Eng.	Scale :	NTS

Drawing title	Figure
<b>SITE GRADING AND DRAINAGE</b>	<b>6</b>

**Not For Construction**





Photo by Google map

- Legend
- - Property limit
  - STM — PROPOSED STORM SEWER LINE
  - SAN — PROPOSED SANITARY SEWER LINE
  - WAT — PROPOSED WATERMAIN LINE
  - CB1 PROPOSED CATCHBASIN
  - OGS PROPOSED OIL/GRIT SEPARATOR
  - CBMH1 PROPOSED MAINTENANCE HOLE AND CATCHBASIN
  - ⊕ PROPOSED WATERMAIN VALVE
  - SANITARY MH



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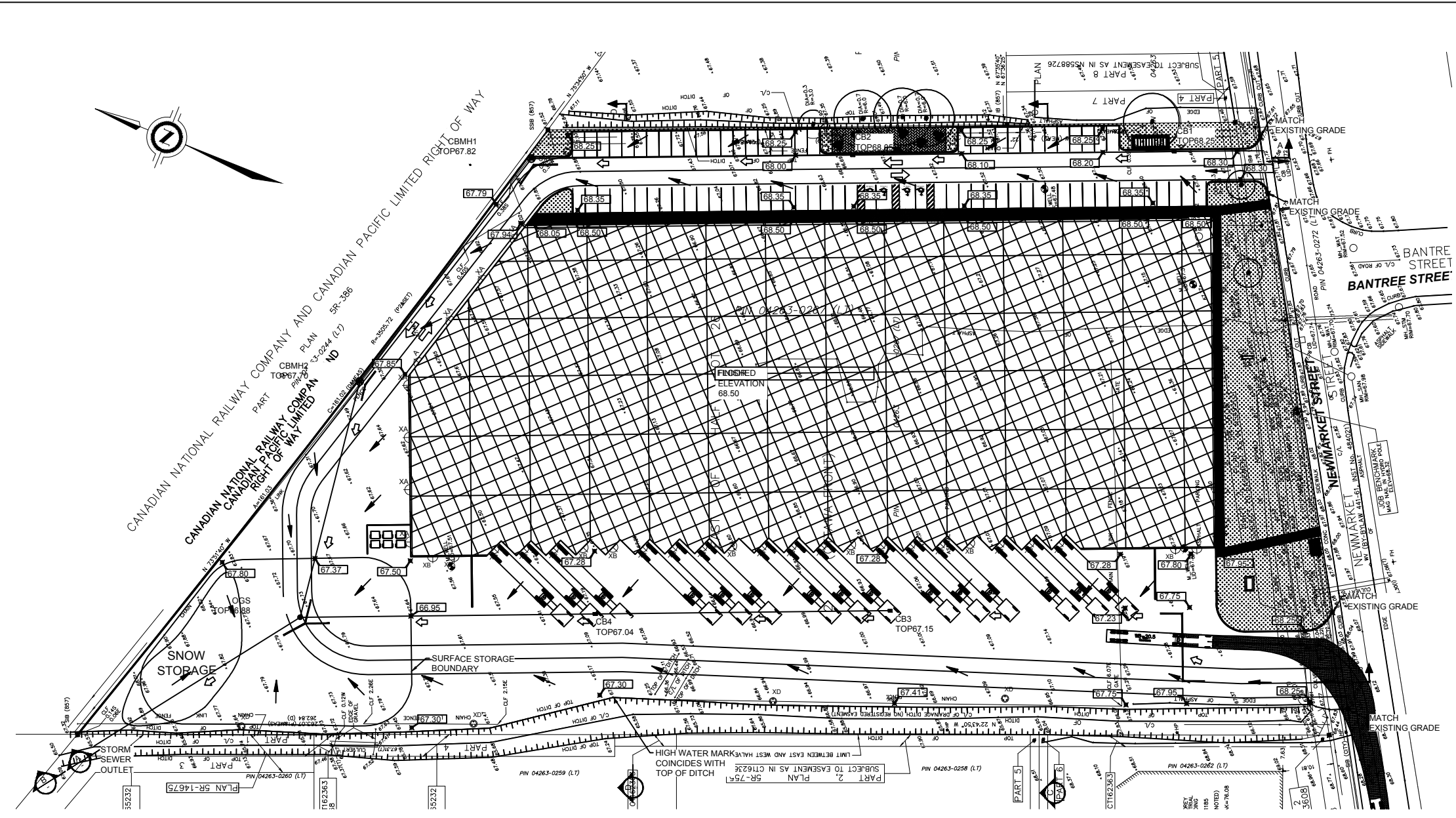
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Drawing title  
**SITE SERVICING PLAN** Figure  
**7**



**SITE SERVICING PLAN**

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  - ALL ELEVATIONS AND DIMENSIONS SHOWN ARE IN METERS, UNLESS NOTED OTHERWISE.
  - THE CONTRACTOR SHALL OBTAIN APPROVED SERVICE CONNECTION PERMITS FROM THE CITY OF OTTAWA BEFORE CONNECTING TO EXISTING SEWER, OR WATER MAIN.
  - THE CONTRACTOR SHALL NOT OPERATE EXISTING MUNICIPAL WATER SYSTEM VALVES. WATER MAIN FLUSHING, DISINFECTING AND TESTING PLAN TO BE SUBMITTED TO, AND APPROVED BY THE CITY OF NIAGARA FALLS PRIOR TO THE PERFORMANCE OF WORK. VALVES CAN ONLY BE OPERATED BY THE CITY OF NIAGARA FALLS OPERATIONAL STAFF. THE CITY REQUIRES A MINIMUM OF 48 HOURS WRITTEN NOTICE PRIOR TO ALL WORKS.
  - PROVIDE APPROPRIATE SHORING FOR TRENCH EXCAVATION IN ACCORDANCE WITH THE LATEST REVISION OF THE OHSA GUIDELINE FOR CONSTRUCTION PROJECTS.
  - MINIMUM HORIZONTAL SEPARATION BETWEEN WATER MAINS AND SEWERS SHALL BE 2.5m. MINIMUM VERTICAL CLEARANCE BETWEEN SEWERS AND WATER MAINS WHICH CROSS IS 500mm.
  - THE CONTRACTOR SHALL ENSURE ALL NEW MANHOLES / CATCHBASINS / VALVES AND ANY OTHER APPURTENANCE WITHIN THE CONSTRUCTION AREA, TO MATCH FINISHED GRADE, AS REQUIRED.
  - NEW MAINTENANCE HOLES TO CONFORM TO OPSD 701.010 - 701.015 AS APPROPRIATE, WITH TYPICAL MAINTENANCE HOLE BENCHING AS PER OPSD 701.021.
  - NEW CATCH BASINS TO BE PER OPSD 705.010 WITH GRATES TO OPSD 400.020.
  - ALL EXISTING AND PROPOSED DOWNSPOUTS SHALL DISCHARGE ONTO SPLASH PADS AT GRADE LEVEL WITH FLOWS DIRECTED AWAY FROM THE BUILDING FOUNDATIONS WITHOUT EROSION OR INCONVENIENCE TO OTHERS.
  - ALL SEWER PIPES AND WATERMAIN CONNECTION HAVE TO BE INSULATED BECAUSE OF FROST REQUIREMENT.
  - ROOFTOP STORAGE TO BE PROVIDED FOR STORMWATER MANAGEMENT CONTROL FOR THE 100 YEAR STORM EVENT. PROVIDE 1% ROOF SLOPE AND MAX. 150mm DEPTH AT THE DRAIN FOR THE ROOF STORAGE. THE DISCHARGE AND CONNECTION SYSTEM WILL REFER TO MECHANICAL DESIGN DOCUMENTS.
  - ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH OPSS AND OPSD REQUIREMENTS AND TO THE REQUIREMENTS OF THE CITY OF OTTAWA.

**Not For Construction**



Photo by Google map

Legend

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- SANITARY MH



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Project

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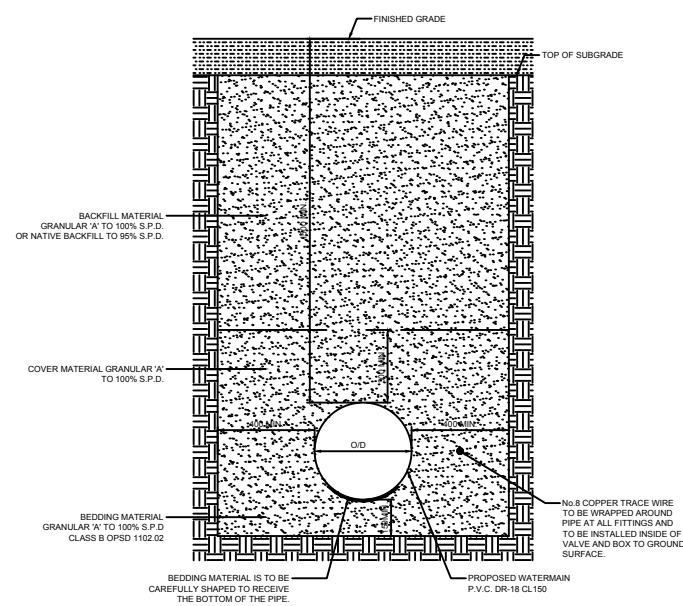
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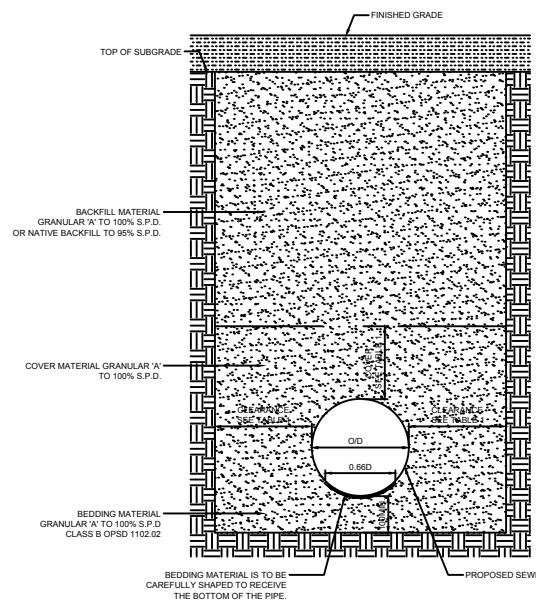
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**SITE SERVICING DETAILS**

Figure  
**8**



**DETAIL 1 - TYPICAL WATERMAIN CROSS-SECTION**

N.T.S.

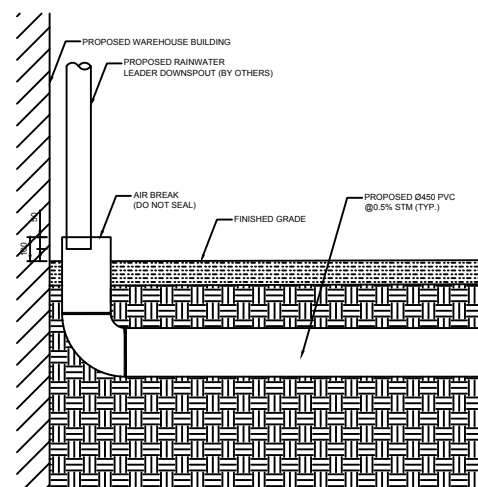


**DETAIL 2 - TYPICAL SEWER CROSS-SECTION**

N.T.S.

**TABLE 1 - CLEARANCE AND COVER**

PIPE TYPE		CLEARANCE (mm)	COVER (mm)
RIGID PIPE INSIDE DIA. (mm)	900 OR LESS	300	300
	OVER 900	500	300
FLEXIBLE PIPE INSIDE DIA. (mm)	LESS THAN 600	300	400
	600 TO 1800	400	300+D/4



**DETAIL 3 - DOWNSPOUT CONNECTION**

N.T.S.

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- MINIMUM HORIZONTAL SEPARATION BETWEEN WATER MAINS AND SEWERS SHALL BE 2.5m. MINIMUM VERTICAL CLEARANCE BETWEEN SEWERS AND WATER MAINS WHICH CROSS IS 500mm.
- THE CONTRACTOR SHALL ENSURE ALL NEW MANHOLES / CATCHBASINS / VALVES AND ANY OTHER APPURTENANCE WITHIN THE CONSTRUCTION AREA, TO MATCH FINISHED GRADE, AS REQUIRED.
- NEW MAINTENANCE HOLES TO CONFORM TO OPSD 701.010 - 701.015 AS APPROPRIATE, WITH TYPICAL MAINTENANCE HOLE BENCHING AS PER OPSD 701.021.
- NEW CATCH BASINS TO BE PER OPSD 705.010 WITH GRATES TO OPSD 400.020.
- ALL EXISTING AND PROPOSED DOWNSPOUTS SHALL DISCHARGE ONTO SPLASH PADS AT GRADE LEVEL WITH FLOWS DIRECTED AWAY FROM THE BUILDING FOUNDATIONS WITHOUT EROSION OR INCONVENIENCE TO OTHERS.
- ALL SEWER PIPES AND WATERMAIN CONNECTION HAVE TO BE INSULATED BECAUSE OF FROST REQUIREMENT.
- ROOFTOP STORAGE TO BE PROVIDED FOR STORMWATER MANAGEMENT CONTROL FOR THE 100 YEAR STORM EVENT. PROVIDE 1% ROOF SLOPE AND MAX. 150mm DEPTH AT THE DRAIN FOR THE ROOF STORAGE. THE DISCHARGE AND CONNECTION SYSTEM WILL REFER TO MECHANICAL DESIGN DOCUMENTS.
- ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH OPSS AND OPSD REQUIREMENTS AND TO THE REQUIREMENTS OF THE CITY OF OTTAWA.

**Not For Construction**

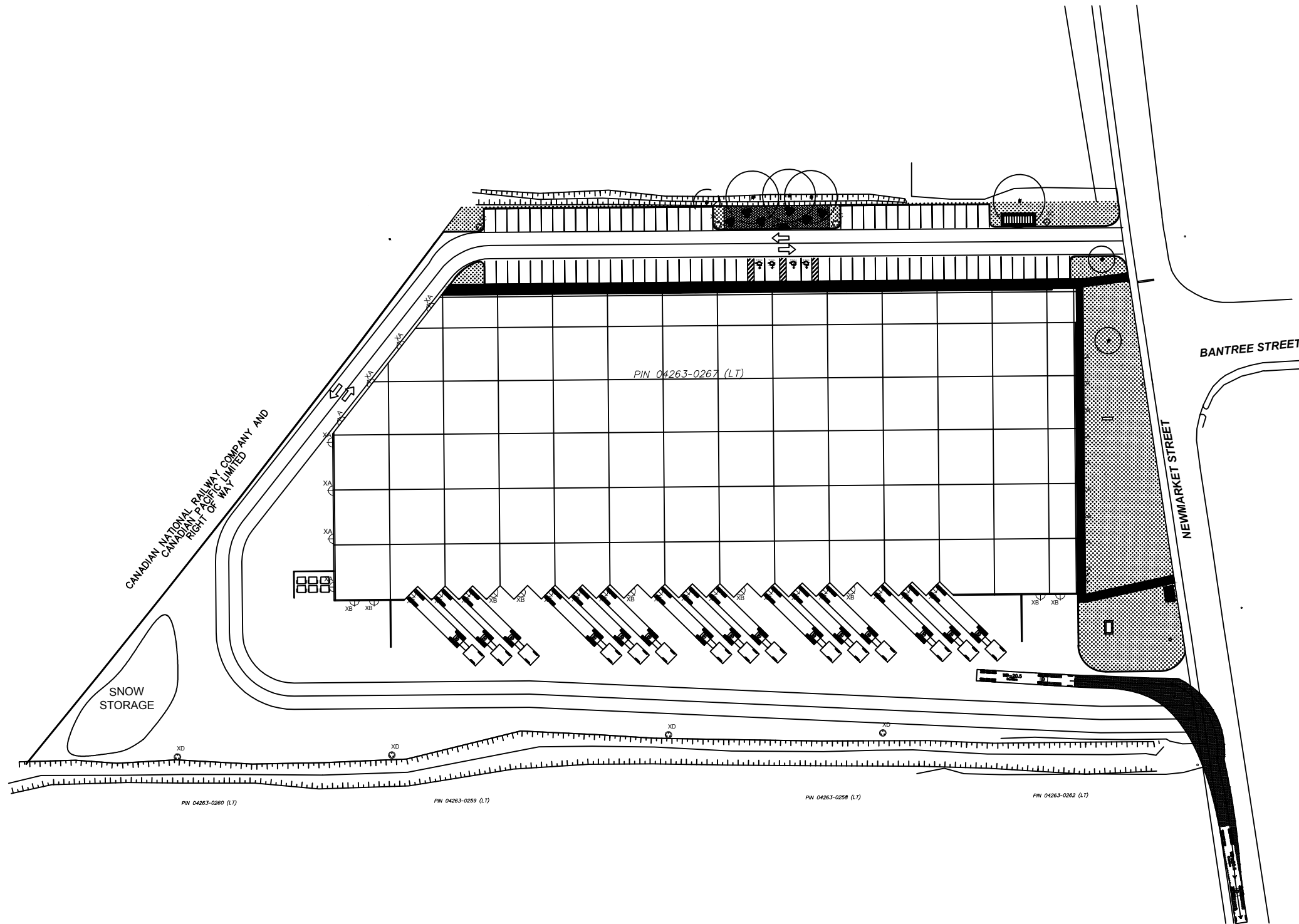




Photo by Google map

Legend

— Property limit



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Project  
**1195 NEWMARKET STREET**

Property located at 1195 NEWMARKET STREET  
 OTTAWA, ONTARIO

Client  
**OTTAWA**

Prepared :	P. Fhima Eng.	O/Ref.:	18551
Drawing :	H.Sun	File name :	D07-12-21-0114
Verified :	P. Fhima Eng.	Date :	10-25-2021
Accepted :	P. Fhima Eng.	Scale :	1 : 1000

Drawing title	Figure
<b>SITE PLAN</b>	<b>9</b>

