

Stormwater Management Brief

2300 SPEERS ROAD

OAKVILLE

ONTARIO

Prepared by:

September 10, 2019

File: 18082



KARUGU CONSULTING INC.

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1.0 INTRODUCTION

Karugu Consulting Inc. was retained to complete a SWM brief for the commercial site located at 2300 Speers Road in Oakville, Ontario.

The purpose of this brief is to detail how the existing drainage patterns will be maintained following the implementation of the proposed berm.

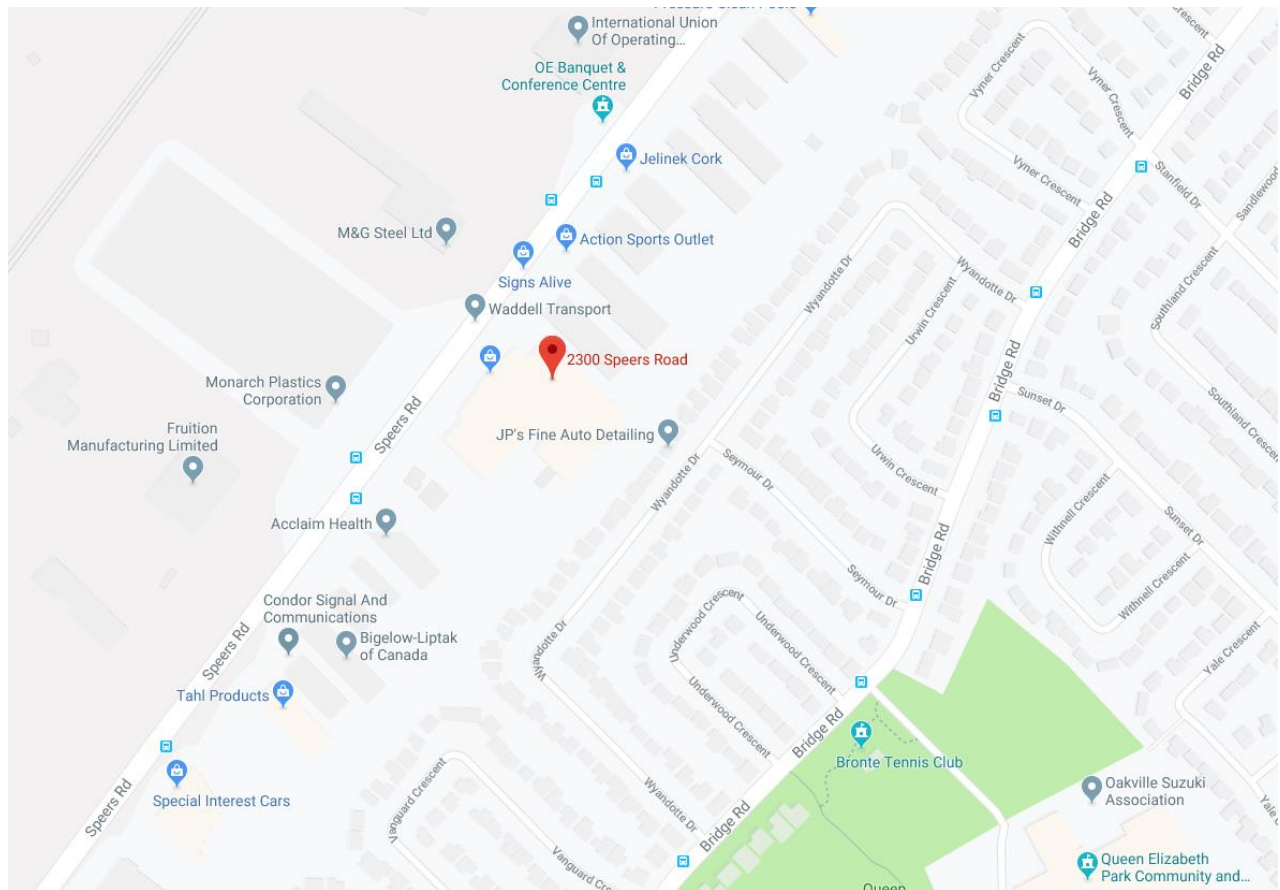


Figure 1: Location Map

2.0 EXISTING CONDITIONS

As shown on Figure 2, runoff on the site sheet flows south eastly and is intercepted by a swale running along the south east property line. The swale drains to an existing CB as shown on Figure 2. A 525mm diameter storm sewer connects this CB to the existing storm sewer system on Wyandotte Drive. Refer to Figure 2 in Appendix A for existing conditions.

3.0 PROPOSED CONDITIONS

It is proposed to extend asphalt area and to install a berm along the south east property line (See Figure 3). As shown on Figure 3, runoff upstream of the berm will sheet flow south easterly towards the berm and along the bottom of the berm to the proposed CB. A storm sewer from this CB connects the existing 525mm diameter sewer at the new CBMH proposed to replace the existing CB. The existing swale along the property line will remain and shall pick up runoff from the south east of the berm and direct it to the new CBMH. Refer to Figure 3 in Appendix A for proposed conditions

4.0 CONCLUSION

Based on the foregoing, it is confirmed that:

- i) Following the installation of the proposed berm, the resulting drainage pattern will be the same as existing conditions in that all runoff is directed the same place as in pre-berm installation scenario.

Karugu Consulting Inc.

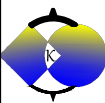


George Karugu, P.Eng.



APPENDIX A

FIGURES



**KARUGU
CONSULTING
INC.**

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SUITE 200
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LEGEND:

PROPERTY LINE

LIMIT OF CONSTRUCTION

PONDING LIMIT

PROPOSED DRAINAGE DIRECTION

EXISTING ELEVATION

PROPOSED ELEVATION

EXISTING SANITARY MANHOLE

PROPOSED SANITARY MANHOLE

EXISTING STORM MANHOLE

PROPOSED STORM MANHOLE

EXISTING SINGLE/DOUBLE CATCHBASIN

PROPOSED SINGLE/DOUBLE CATCHBASIN

PROPOSED CATCHBASIN MANHOLE

OVERLAND FLOW ROUTE

EXISTING HYDRANT & VALVE

PROPOSED SIAMESE CONNECTION

EXISTING VALVE BOX

PROPOSED VALVE BOX

PROPOSED VALVE CHAMBER

WATER METER TO BE INSTALLED IN

METER ROOM. PIPE LAYOUT AS

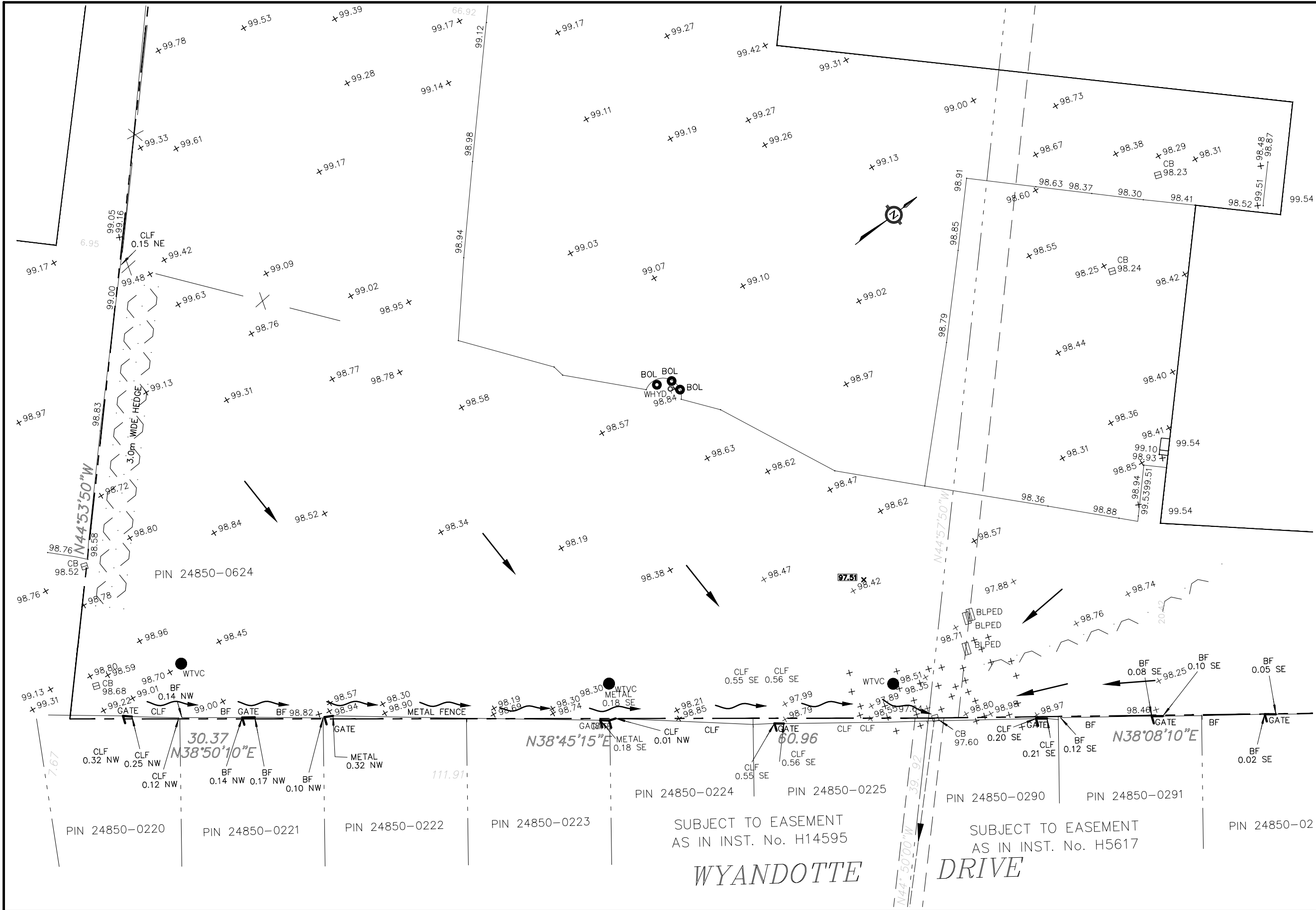
PER CITY STANDARDS.

DOUBLE CHECK VALVE ASSEMBLY

(BACKFLOW PREVENTER) TO BE

INSTALLED IN METER ROOM. DCVA

AS PER CITY STANDARDS.



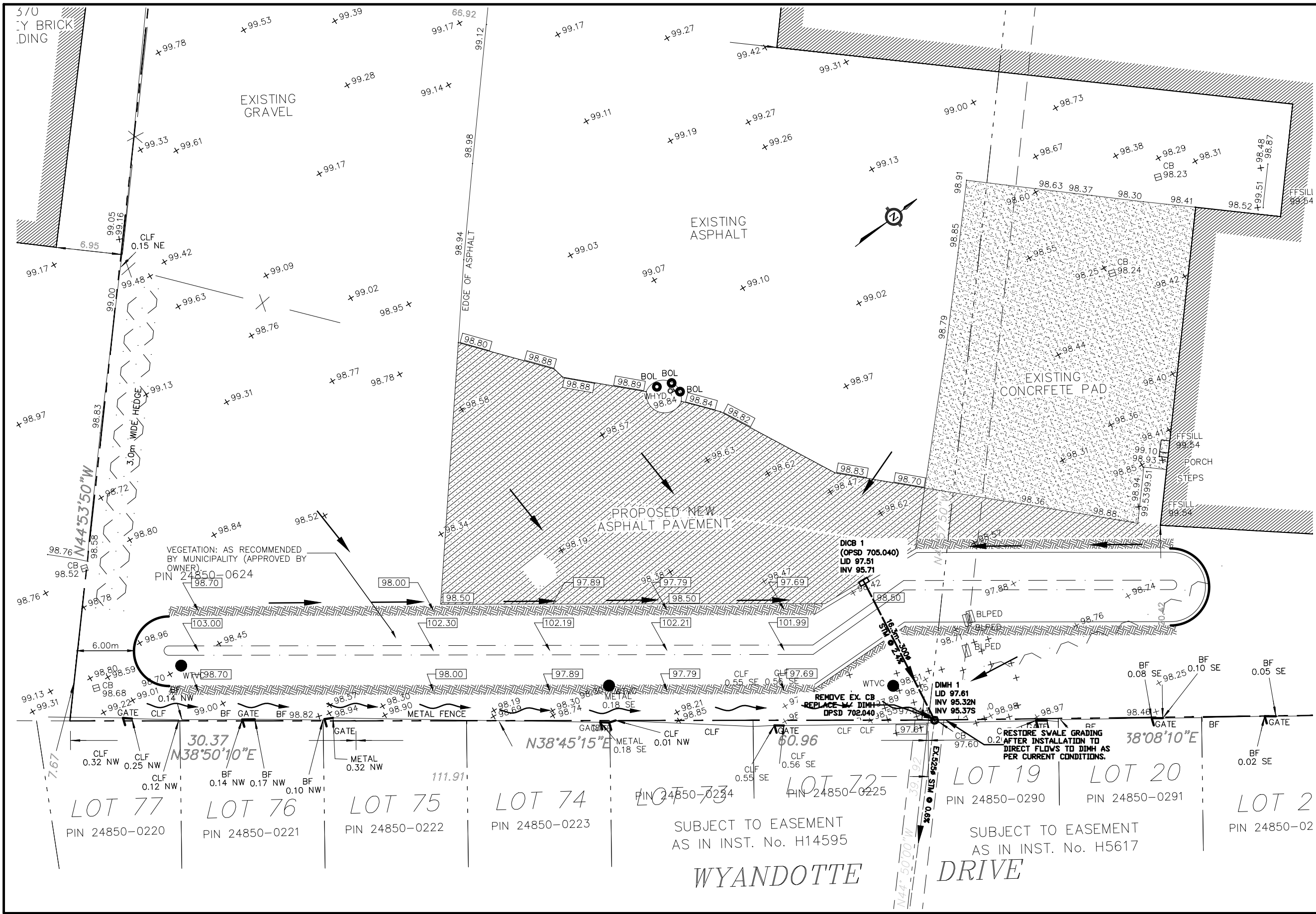
515476 ONTARIO LTD

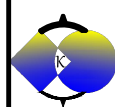
2300 SPEERS ROAD
OAKVILLE, ONTARIO

DRAWING NAME:

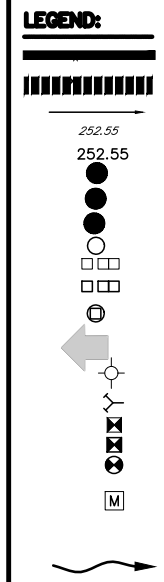
**SWM
PRE-BERM INSTALLATION**

DESIGNED BY:	GK	DATE: SEPT 10, 2019
DRAWN BY:	GK	
CHECKED BY:	GK	DWG. No.
SCALE:	NTS	FIG-2





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LEGEND:


PROPERTY LINE
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OVERLAND FLOW ROUTE
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EXISTING VALVE BOX
PROPOSED VALVE BOX
PROPOSED VALVE CHAMBER
WATER METER TO BE INSTALLED IN METER ROOM. PIPE LAYOUT AS PER CITY STANDARDS.
SWALE

515476 ONTARIO LTD		
2300 SPEERS ROAD OAKVILLE, ONTARIO		
DRAWING NAME:		
SWM POST BERM INSTALLATION		
DESIGNED BY:	GK	DATE: SEPT 10, 2019
DRAWN BY:	GK	
CHECKED BY:	GK	DWG. No.
SCALE:	NTS	FIG-3