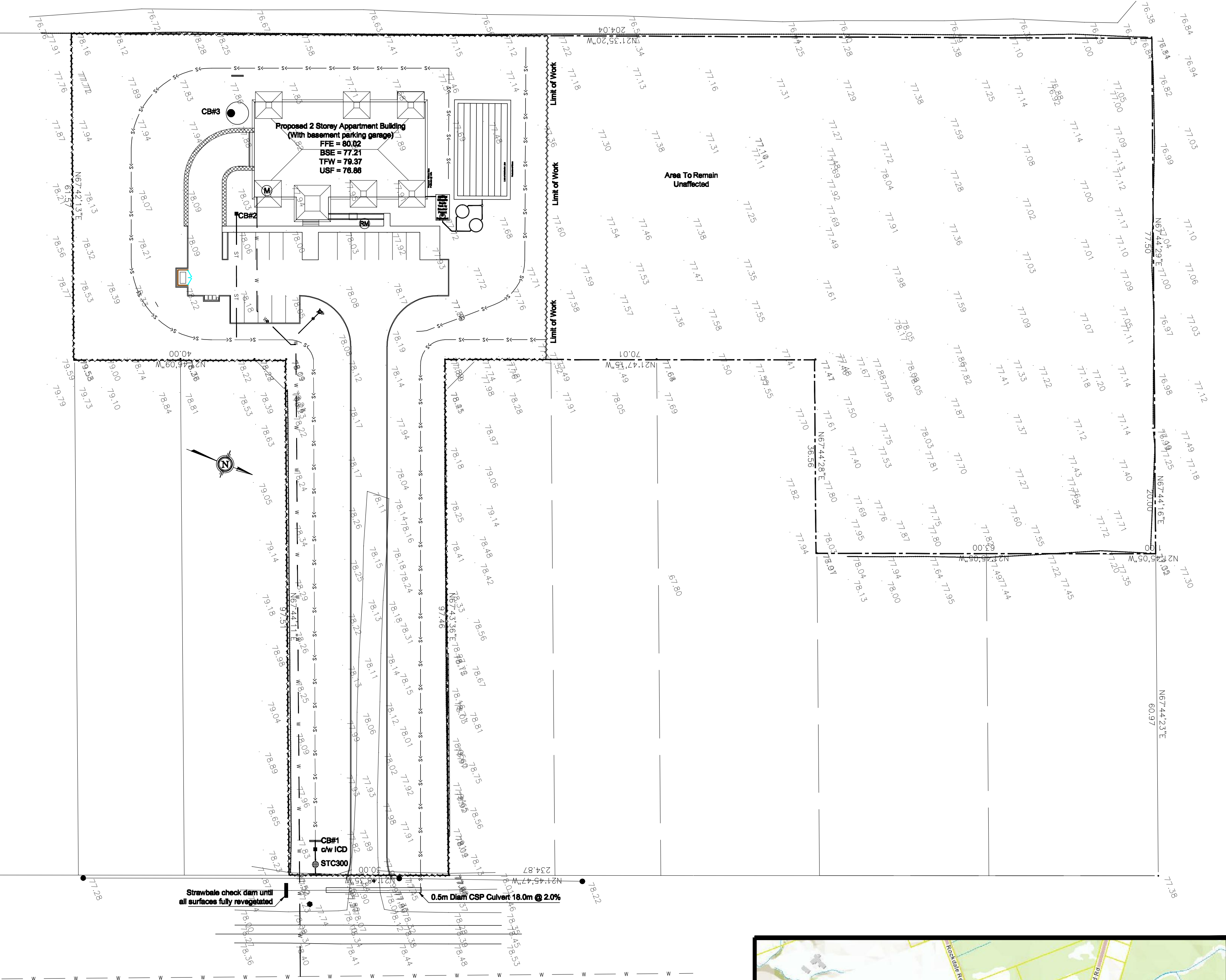


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LEGEND:

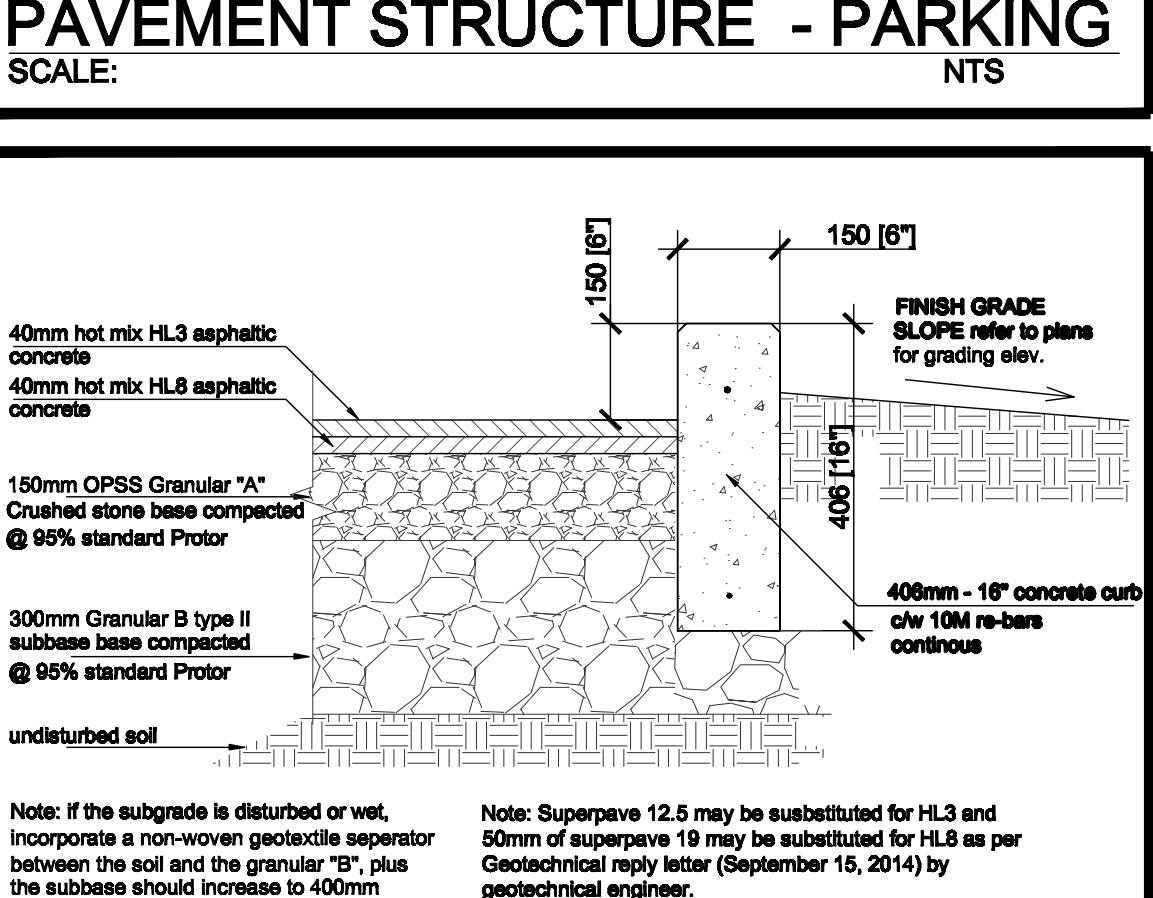
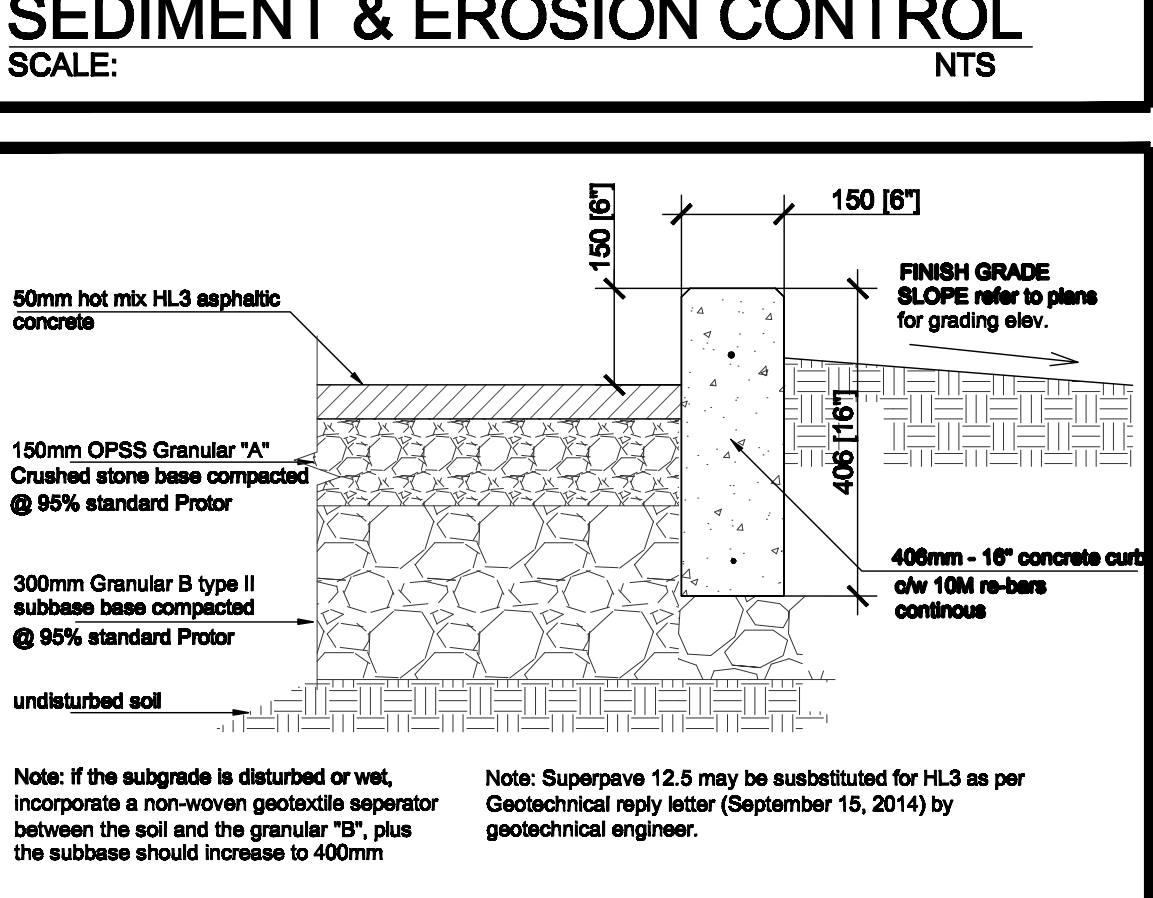
- S — S — PROPOSED SANITARY
- ST — ST — PROPOSED STORM
- W — W — EXISTING WATERMAIN
- W — W — PROPOSED WATERMAIN
- S — S — PROPOSED SWALE
- ~ ~ ~ ~ ~ SEDIMENT & EROSION PROTECTION FENCE
- — — — — 250mm PERFORATED SUB-DRAIN
- — — — — PROPERTY LINE
- — — — — 100 YEAR PONDING
- — — — — 5 YEAR PONDING
- — — — — PROPOSED CURB
- — — — — RETAINING WALL
- — — — — TOP OF SLOPE
- — — — — BOTTOM OF SLOPE
- ➔ MAJOR OVERLAND FLOW ROUTE
- 70.40 x PROPOSED GRADE
- 70.40 x OR 70.40 x EXISTING GRADE
- ⊗ CURB STOP
- ⊙ WATER METER
- ⊙ REMOTE WATER METER
- EXISTING CATCH BASIN MAN HOLE
- PROPOSED CATCH BASIN MAN HOLE
- EXISTING CATCH BASIN
- PROPOSED CATCH BASIN
- ⊕ FH FIRE HYDRANT
- 50:1 (2% SLOPE) Refer to plan
- 2.0% slope DIRECTION OF SLOPE



GENERAL VIEW

SCALE: 1:500

- ### SEDIMENT & EROSION CONTROL
- SCALE: NTS
- SILT FENCE MUST BE AS PER DETAIL OPSD 213.110 & SHOWN BESIDE AND MUST BE INSTALLED BEFORE COMMENCEMENT OF CONSTRUCTION AND IN ACCORDANCE WITH THE TOE-IN-DETAIL. SILT FENCE CAN BE REMOVED AFTER LANDSCAPING IS COMPLETE. SEDIMENTS MUST BE CLEARED AWAY WHEN THEY REACH HALF THE HEIGHT OF THE FENCE.
 - DO NOT CLEAR ENTIRE SITE OF VEGETATION, ONLY AREAS THAT REQUIRE MODIFICATIONS. REVEGETATE EXPOSED AREAS WHEN GRADING IS COMPLETE.
 - POST SPACING MUST NOT EXCEED 1.8m.
 - POSTS MUST BE DRIVEN AT LEAST 35cm INTO THE GROUND.
 - THE BACKFILLED ANCHOR TRENCH MUST BE AT LEAST 15cm DEEP.
 - THE BACKFILL MUST BE COMPACTED.
 - THE SILT FENCE MUST BE SECURELY FASTENED TO THE POST.
 - IT IS THE RESPONSIBILITY OF THE CONTRACTOR FOR INSTALLATION, INSPECTION, MAINTENANCE AND REMOVAL OF THE SEDIMENT AND EROSION CONTROL.
 - A DAILY CHECK ON THE MEMBRANE AND THE CATCH BASIN AS TO BE DONE, THEREFORE MAKING SURE THE MEMBRANE IS NOT COLLAPSED.
 - THE SEDIMENT AND EROSION CONTROL SHOULD BE CONSIDERED A "LIVING DOCUMENT" THAT MAY NEED TO BE CHANGED OR ADAPTED DURING THE LIFE OF THE PROJECT TO BE EFFECTIVE.
 - THE OWNER AGREES TO PREPARE AND IMPLEMENT AN EROSION AND SEDIMENT CONTROL PLAN TO THE SATISFACTION OF CITY OF OTTAWA, APPROPRIATE TO THE SITE CONDITIONS, PRIOR TO UNDERTAKING ANY SITE ALTERATIONS (FILLING, GRADING, REMOVAL OF VEGETATION, ETC.) AND DURING ALL PHASES OF SITE PREPARATION AND CONSTRUCTION IN ACCORDANCE WITH THE CURRENT BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL SUCH AS BUT NOT LIMITED TO INSTALLING FILTER CLOTHS ACROSS MANHOLES/CATCH BASIN LIDS TO PREVENT SEDIMENT FROM ENTERING STRUCTURES AND INSTALL AND MAINTAIN A LIGHT DUTY SILT FENCE BARRIER AS REQUIRED.



PAVEMENT STRUCTURE - HEAVY

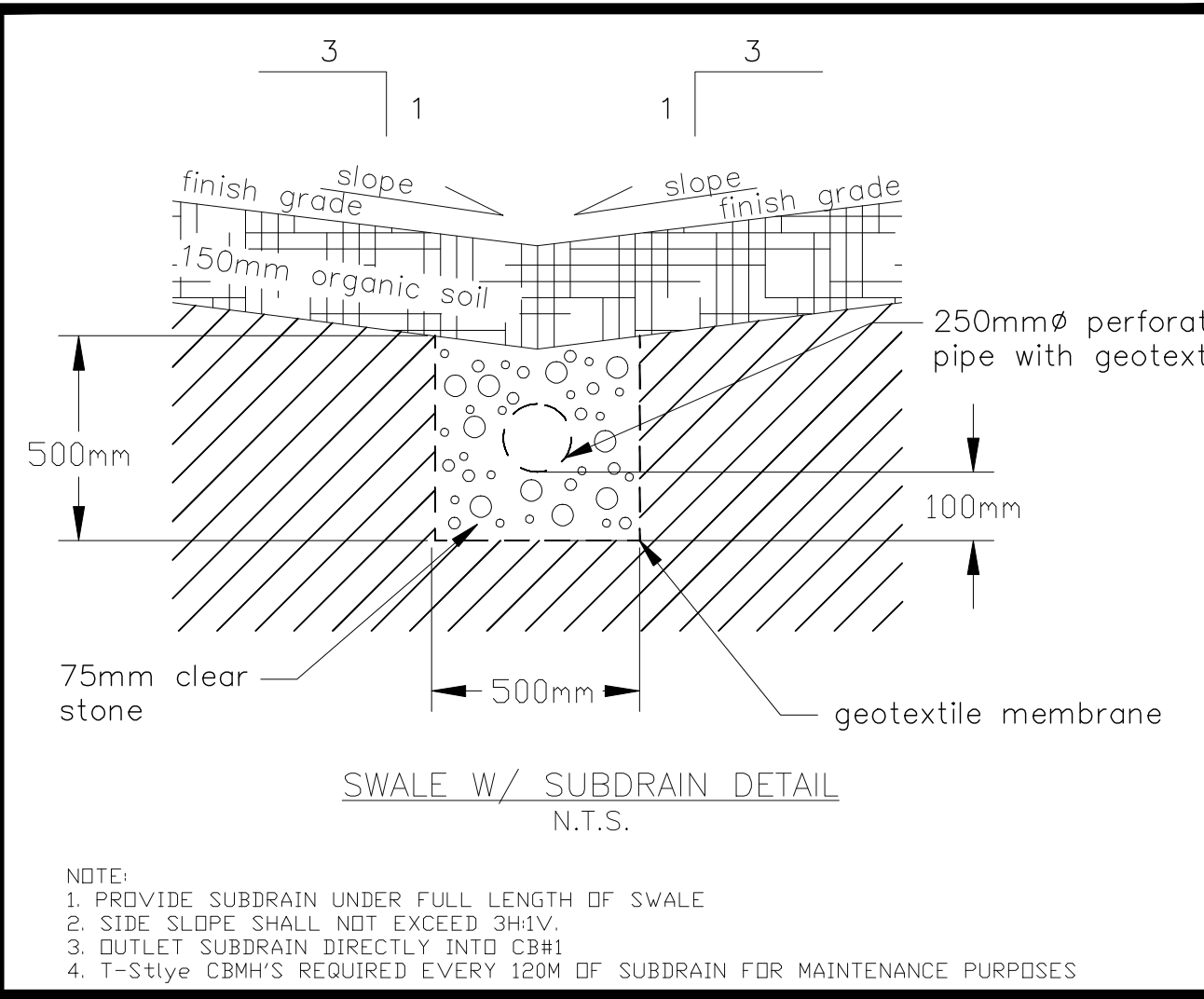
SCALE: NTS

STORM MAN-HOLES SCHEDULES

PROPOSED CBMH#1 #1.20m	PROPOSED MH#3 #3.60m
EL. COV. 77.98	EL. COV. 79.08
N. INV. 76.73	N. INV. 76.46
W. INV. 77.30	W. INV. 77.85
E. INV. 77.27	E. INV. 77.85
Filter control device @ outlet	Filter control device @ outlet
PEX Type E Monitoring Manhole	PEX Type E Monitoring Manhole
PROPOSED CB#2 0.8m x 0.6m	PROPOSED STC#300 #1.20m
EL. COV. 78.82	EL. COV. 77.98
W. INV. 77.60	W. INV. 77.26
E. INV. 77.60	E. INV. 77.18

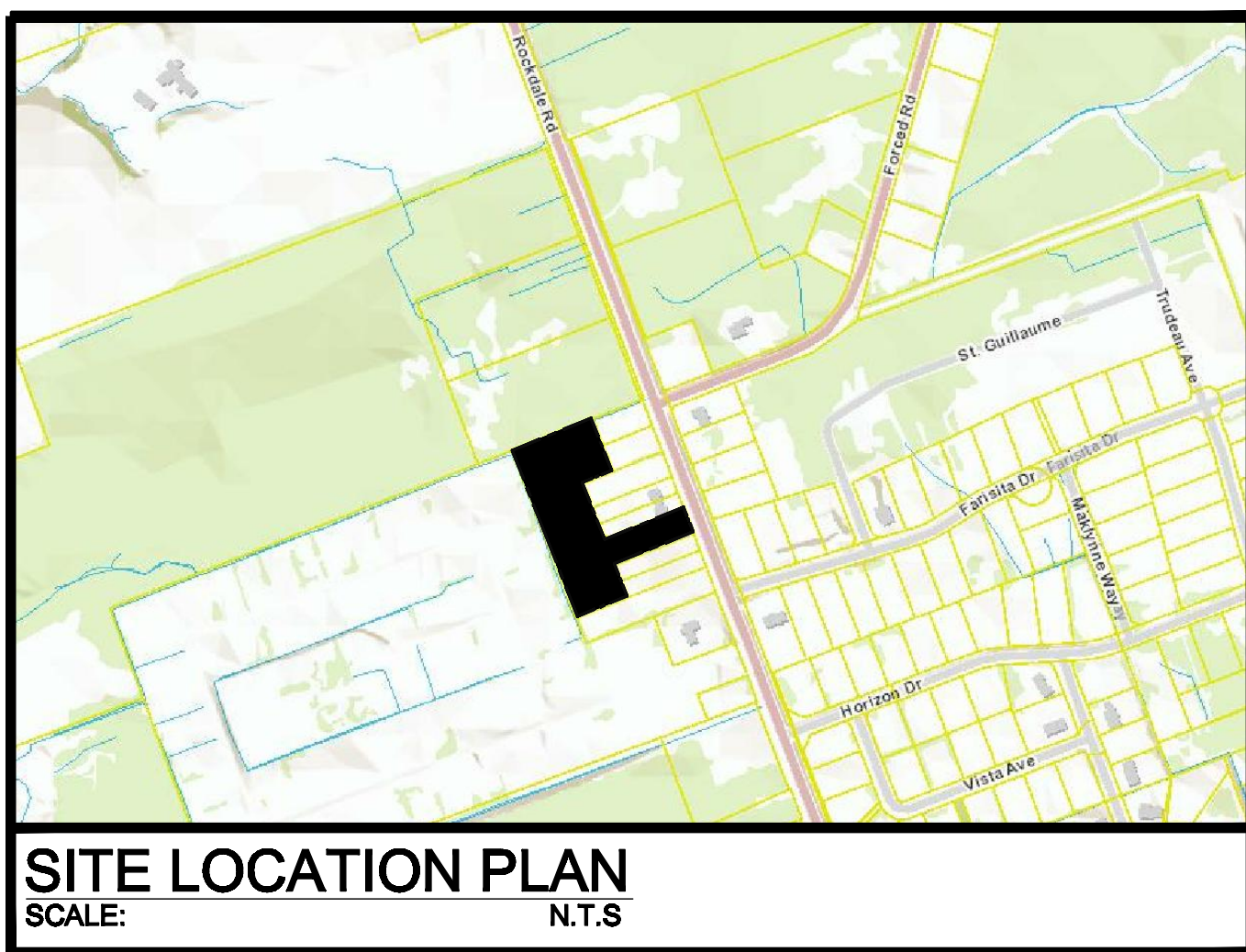
WATER SERVICE PROFILE FOR 5574 ROCKDALE ROAD

CHAINAGE(m)	LOCATION	FIN. GRADE	TOP OF PIPE	FROST COVER(m)	COMMENTS
0.000	CITY SERVICES	78.20	75.80	2.40	200MM DIA. PRIVATE MAIN
9.712	EDGE OF ASPHALT	78.31	75.80	2.51	
10.000	0+10	78.31	75.80	2.51	
16.277	CL OF DITCH	77.23	74.80	2.43	
19.171	CURB STOP	77.75	75.30	2.45	
20.000	0+20	77.75	75.30	2.45	
30.000	0+30	77.68	75.30	2.38	
40.000	0+40	77.71	75.30	2.41	
50.000	0+50	77.79	75.30	2.49	
60.000	0+60	77.90	75.30	2.60	
70.000	0+70	77.92	75.30	2.62	
80.000	0+80	77.96	75.30	2.62	
90.000	0+90	77.98	75.30	2.66	
100.000	1+00	77.92	75.30	2.68	
110.000	1+10	77.92	75.30	2.62	
119.436	HYDRANT TEE	77.48	75.08	2.40	200X50X200 TEE
120.000	1+20	77.48	75.08	2.40	
120.436	BEND	77.48	75.08	2.40	
126.529	SHUT-OFF VALVE	78.70	76.00	2.70	
127.232	EDGE OF ASPHALT	78.55	76.00	2.55	
129.438	BEND	78.55	76.00	2.55	
130.000	1+30	78.57	76.00	2.57	
140.000	1+40	78.57	76.00	2.57	
143.689	EDGE OF ASPHALT	78.76	76.00	2.76	
144.889	START OF GRASS	78.93	76.40	2.53	
150.000	1+50	78.90	76.40	2.50	
150.355	AT BUILDING	79.22	76.40	2.82	



SWALE DETAIL

SCALE: NTS



SITE LOCATION PLAN

SCALE: N.T.S.

SITE SERVICING NOTES

- Elevations shown on plans are geodetic in meters and taken from topographical survey drawing by Arpentage Dutrisac Surveying Inc. July 2013.
- Project T.B.M. (Temporary Benchmark): Nail in Utility Pole on East side of Rockdale Road Elev. = 78.39.
- All water works to respect requirements of the City of Ottawa and to conform to the latest revision of Standard Tendering Documents as prepared by city.
- All catch basin manholes and sewers work to be constructed as per the requirements of the City of Ottawa.
- Pipes sizes shall be as shown on drawing.
- Pipes material to be as follows:
 - storm sewer - PVC SDR28
 - watermain - PVC DR15
 - sanitary sewer - SDR 35
 - sub-drain - flexible perforated heavy duty polyethylene pipe c/w polyester sock filter by BIG'O' or equivalent.
- All water services shall have 2.4 m frost cover minimum.
- Existing services and utilities shown on this drawing are taken from best available records but are not complete. Contractor is required to check in field for location and all elevation of pipes and check with utility companies before digging or ordering any material. Advise engineer of any discrepancies for recommendations and directions, prior to ordering any materials or starting any work.
- Geotechnical Report, perform by Moray Associates Ltd. (report# 013300, written September 2013), forms part of our specifications and requirements. Contractor must be fully cognizant of its content and respect its recommendations.
- Stormwater Management Report by A. Dagenais and Assoc. Consulting and Forensics engineers and Architects, forms part of our specifications and requirements. The contractor must be fully cognizant of its content and respect its recommendations.
- All plumbing and electrical work to be coordinated with civil engineering.
- Notify engineer for inspection prior to backfilling or covering any pipes or appurtenances.
- Contractor to respect grading around building to be 0.15m minimum below top of foundation or any siding or finish wall material.
- All works for private approach including any temporary construction access to the site lane shall be constructed in accordance with requirements of the City of Ottawa standards.
- Contractor to prevent erosion and sedimentation damages by installing geosocks under cover of existing down stream catch basins and also take necessary measures to prevent erosion and sediment deposit on adjacent property. Provide straw wall with pickets & geotextile at perimeter of property.
- All pipe bedding to be as per the City of Ottawa requirements and as specified in geotechnical report.
- Contractor to obtain clearance certificate from all agencies, authorities and utility company prior to making any excavation. Provide copy of clearance certificate to engineer prior to start of construction.
- CB#1 is to be as per OPSD 705.010. MH#2 is to be as per OPSD 701.015 complete with transition slab, 1200mm diameter riser and 1200mm diameter precast flat cap.
- All catch basin manholes shall be cleaned and empty annually for the purpose of capturing sediment.
- Refer to site/landscape plan by A. Dagenais & Assoc. for details requirements and site data.
- Location of street water is approximate and contractor to verify the exact distance and elevation.
- Contractor to perform all testing verification, cleaning and preparation as per the requirements of the City of Ottawa before final approval.
- Major overland flow is @ on an elevation of 77.75 m.
- Asphalt details and road foundation, as well as parking foundation should be as per details on SS1.
- Proposed grade elevations to match existing elevations at property line or as per plan.
- All proposed grades greater than 7% are proposed average grades. Contractor to use construct slope using terracing.

#5	Revised Per City Comments	January 13, 2015
#4	Revised Per City Comments	September 17, 2014
#3	Revised Per City Comments	April 15, 2014
#2	Coordination with Enviro. Engineer	November 11, 2013
#1	Issued For Client Review	October 22, 2013
No.	Revision	Date

A. Dagenais & Assoc. Inc.
 CONSULTING ENGINEERS & ARCHITECT
 INGENIEURS CONSEILS ET ARCHITECTE

931, Notre Dame, P.O. Box 180
 Embarras, Ontario, K0A 1W0
 (613) 693-0700

12 Unit Apartment Building
 Rollin Development
 5574 Rockdale Road, Vars, Ontario
 General View, Notes & Details
 Drawn by: M.J.
 Checked by: A.F.D.
 Date: September 2013
 Scale: As shown
 Folder #: 013-286

Stamp: LICENSED PROFESSIONAL ENGINEER
 A. DAGENAIS
 13/01/15
 PROVINCE OF ONTARIO

Page number: **SS1**
 of 2
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