

Project No: 135636

HRY HAT THE PORT OF THE PORT O

## TOWN OF CALEDON REGION OF PEEL

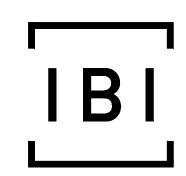
# 12304 HEART LAKE ROAD PHASE 2

NOT FOR CONSTRUCTION

2022-04-22- ISSUED FOR SPA SUBMISSION

## BROCCOLINI

BROCCOLINI 2680 SKYMARK AVENUE SUITE 800 MISSISAUGA ON L4W 5L6 CANADA tel 416 242 7772 broccolini.com



IBI GROUP 8133 WARDEN AVENUE UNIT 300 MARKHAM ON L6G 1B3 CANADA tel 905 763 2322 ibigroup.com

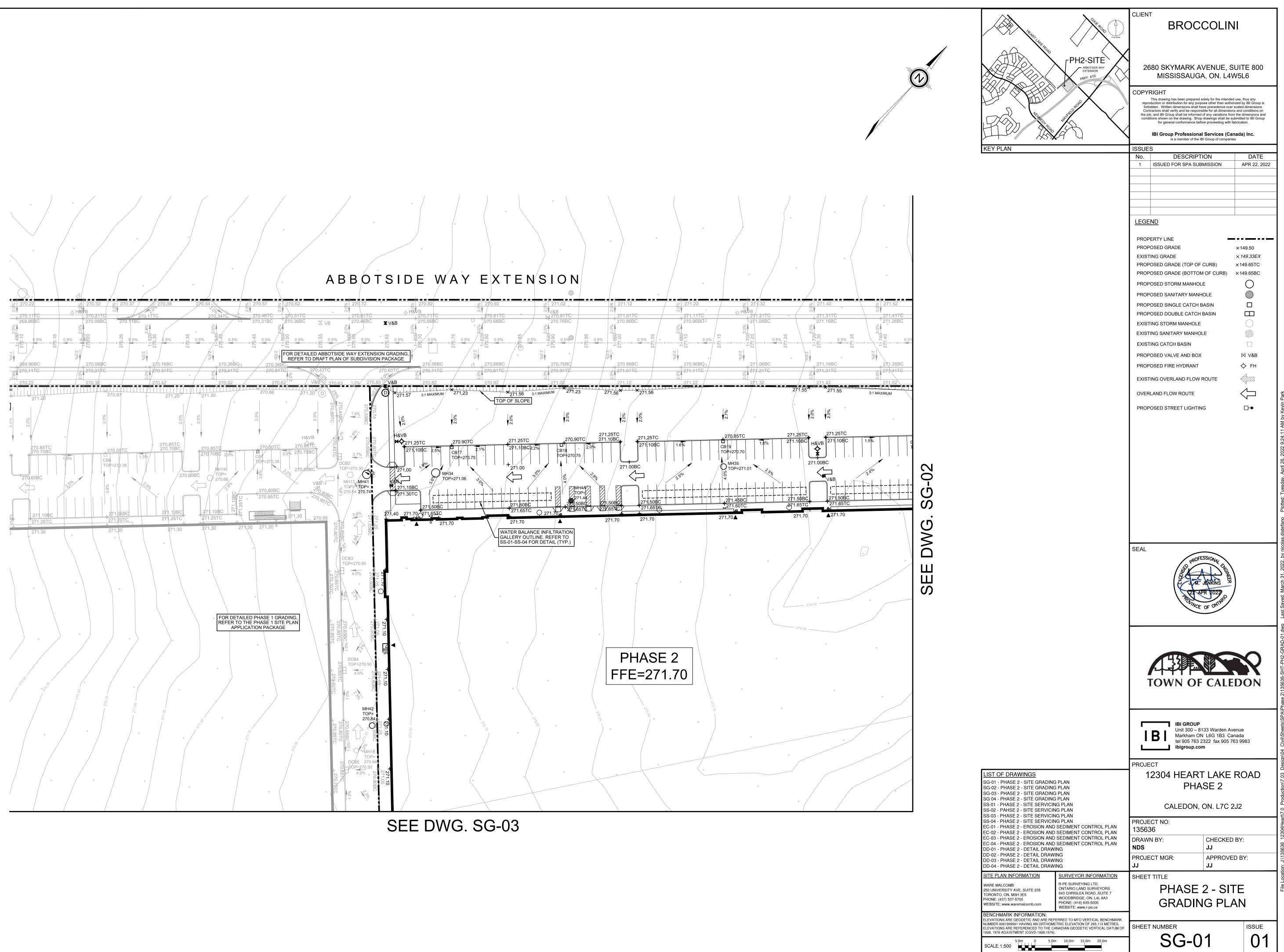


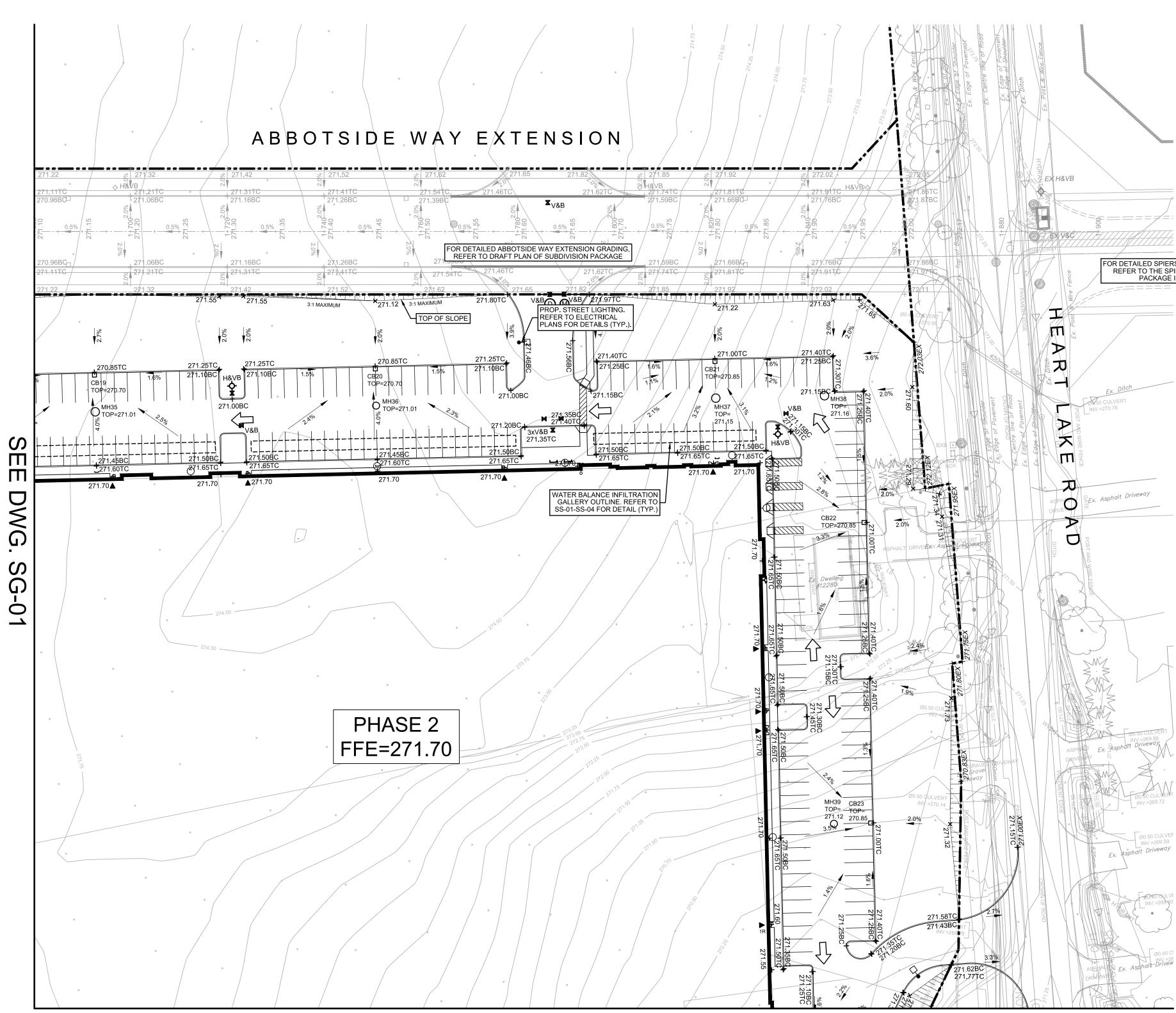
June 14, 2022

## **DESCRIPTION:**

6.53 ha INDUSTRIAL SITE FRONTING THE PROPOSED ABBOTSIDE WAY EXTENSION. PACKAGE INCLUDES, GRADING AND SERVICING DETAILS FOR THE SUBJECT SITE.

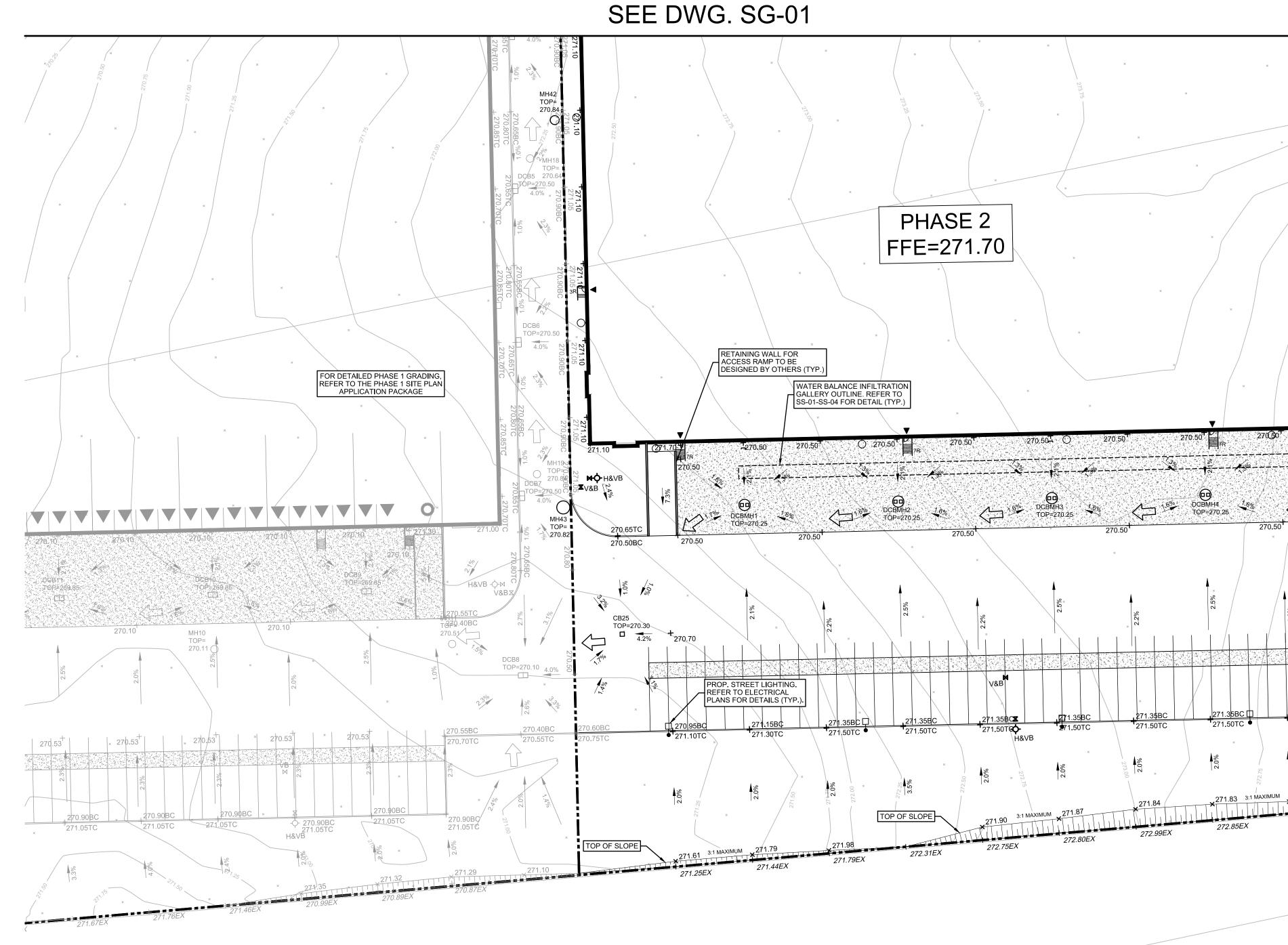
No:	SHEET	DESCRIPTIONS
1	135636-SG-01	PHASE 2 - SITE GRADING PLAN
2	135636-SG-02	PHASE 2 - SITE GRADING PLAN
3	135636-SG-03	PHASE 2 - SITE GRADING PLAN
4	135636-SG-04	PHASE 2 - SITE GRADING PLAN
5	135636-SS-01	PHASE 2 - SITE SERVICING PLAN
6	135636-SS-02	PHASE 2 - SITE SERVICING PLAN
7	135636-SS-03	PHASE 2 - SITE SERVICING PLAN
8	135636-SS-04	PHASE 2 - SITE SERVICING PLAN
9	135636-EC-01	PHASE 2 - EROSION AND SEDIMENT CONTROL PLAN
10	135636-EC-02	PHASE 2- EROSION AND SEDIMENT CONTROL PLAN
11	135636-EC-03	PHASE 2 - EROSION AND SEDIMENT CONTROL PLAN
12	135636-EC-04	PHASE 2 - EROSION AND SEDIMENT CONTROL PLAN
13	135636-DD-01	PHASE 2 - GENERAL NOTES AND DETAILS
14	135636-DD-02	PHASE 2 - GENERAL NOTES AND DETAILS
15	135636-DD-03	PHASE 2 - GENERAL NOTES AND DETAILS
16	135636-DD-04	PHASE 2 - GENERAL NOTES AND DETAILS



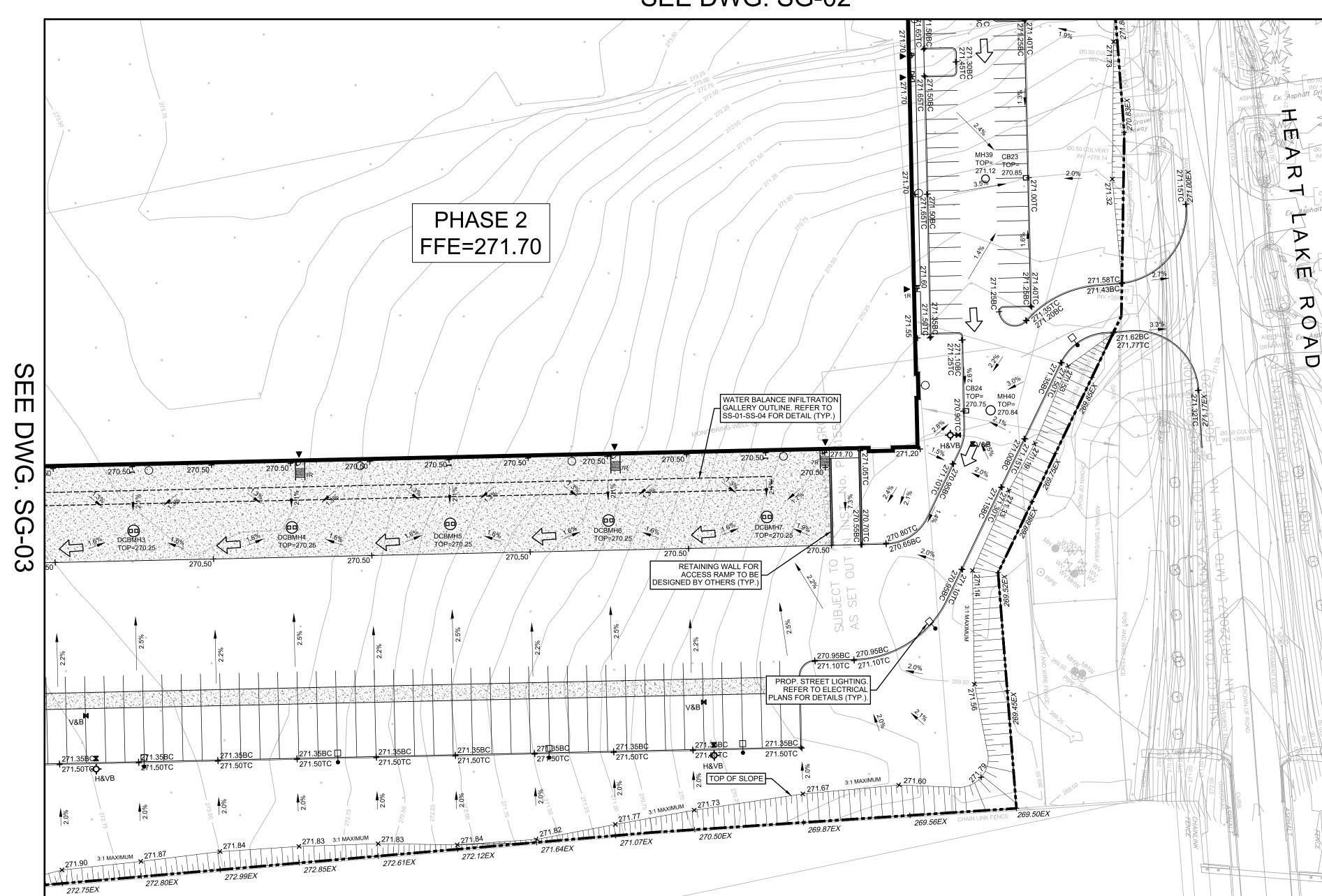


## SEE DWG. SG-04

	The approximation of the appro	Porto Tree North	CLIEN	BROCC	OLINI	
		PH2-SITE ABBOTSIDE WAY EXTENSION HWY. 410	26 COPY	80 SKYMARK AVI MISSISSAUGA, RIGHT		
			repro forb Con the jo	This drawing has been prepared sole duction or distribution for any purpose idden. Written dimensions shall have tractors shall verify and be responsible b, and IBI Group shall be informed of a tions shown on the drawing. Shop dra for general conformance before <b>IBI Group Professional S</b> is a member of the IBI G	other than authorized precedence over scale e for all dimensions and any variations from the awings shall be submitt proceeding with fabrica	by IBI Group is d dimensions. conditions on dimensions and ed to IBI Group tion.
	KEY PLAN		ISSUE No. 1	S DESCRIPTIO ISSUED FOR SPA SUBMI		DATE APR 22, 2022
I.			LEGE			
- 2 -			PROP EXIST PROP PROP	ERTY LINE OSED GRADE ING GRADE OSED GRADE (TOP OF CL OSED GRADE (BOTTOM C OSED STORM MANHOLE	x f JRB) ×1	49.50 <i>49.33EX</i> 49.65TC 49.65BC
RS GIFFEN SANITARY EXTENSIONS INFORMATION, PIERS GIFFEN SANITARY EXTENSION DRAWING INCLUDED UNDER A SEPARATE COVE.			PROP PROP PROP	OSED STORM MANHOLE OSED SANITARY MANHOI OSED SINGLE CATCH BA OSED DOUBLE CATCH BA	SIN	
-			EXIST PROP PROP	ING SANITARY MANHOLE ING CATCH BASIN OSED VALVE AND BOX OSED FIRE HYDRANT	-	□ >> V&B \$- FH
-			OVER	ING OVERLAND FLOW RC	<	Ŀ•
-						
			SEAL	PROFESS	SIONAL	
~				CO ADD	SIONAL EROMETER NIKINS PO22 FONTA	
						\$
F				COWN OF	CALED	ON
				Markham ON I	3 Warden Avenu L6G 1B3 Canada 22 fax 905 763 9	а
	LIST OF DRAWINGS SG-01 - PHASE 2 - SITE GRADING PL SG-02 - PHASE 2 - SITE GRADING PL SG-03 - PHASE 2 - SITE GRADING PL SG 04 - PHASE 2 - SITE GRADING PL	AN AN AN	PROJE 1	2304 HEART PHAS	SE 2	
-	SS-01 - PHASE 2 - SITE SERVICING P SS-02 - PAHSE 2 - SITE SERVICING P SS-03 - PHASE 2 - SITE SERVICING P SS-04 - PHASE 2 - SITE SERVICING P EC-01 - PHASE 2 - EROSION AND SEI EC-02 - PHASE 2 - EROSION AND SEI EC-03 - PHASE 2 - EROSION AND SEI EC-04 - PHASE 2 - EROSION AND SEI DD-01 - PHASE 2 - DETAIL DRAWING	LAN LAN LAN DIMENT CONTROL PLAN DIMENT CONTROL PLAN DIMENT CONTROL PLAN	PROJE 13563 DRAW NDS	N BY:	N. L7C 2J2 CHECKED BY	
	DD-02 - PHASE 2 - DETAIL DRAWING         DD-03 - PHASE 2 - DETAIL DRAWING         DD-04 - PHASE 2 - DETAIL DRAWING         SITE PLAN INFORMATION         WARE MALCOMB         250 UNIVERSITY AVE, SUITE 235         TORONTO, ON. M5H 3E5	RVEYOR INFORMATION E SURVEYING LTD. TARIO LAND SURVEYORS CHRISLEA ROAD, SUITE 7 OODBRIDGE, ON. L4L 8A3	PROJE JJ SHEET	PHASE 2		
	WEBSITE:       www.waremalcomb.com       PH         WEBSITE:       www.waremalcomb.com       WE         BENCHMARK INFORMATION:       ELEVATIONS ARE GEODETIC AND ARE REFERENCED TO THOMETRIC       ELEVATIONS ARE REFERENCED TO THE CANADI         1928, 1978 ADJUSTMENT (CGVD-1928:1978).       5.0m       0       5.0m	DNE: (416) 635-5000 BSITE: www.r-pe.ca D TO MTO VERTICAL BENCHMARK ELEVATION OF 265.112 METRES.	SHEET	GRADING		ISSUE
	SCALE: 1:500				-	

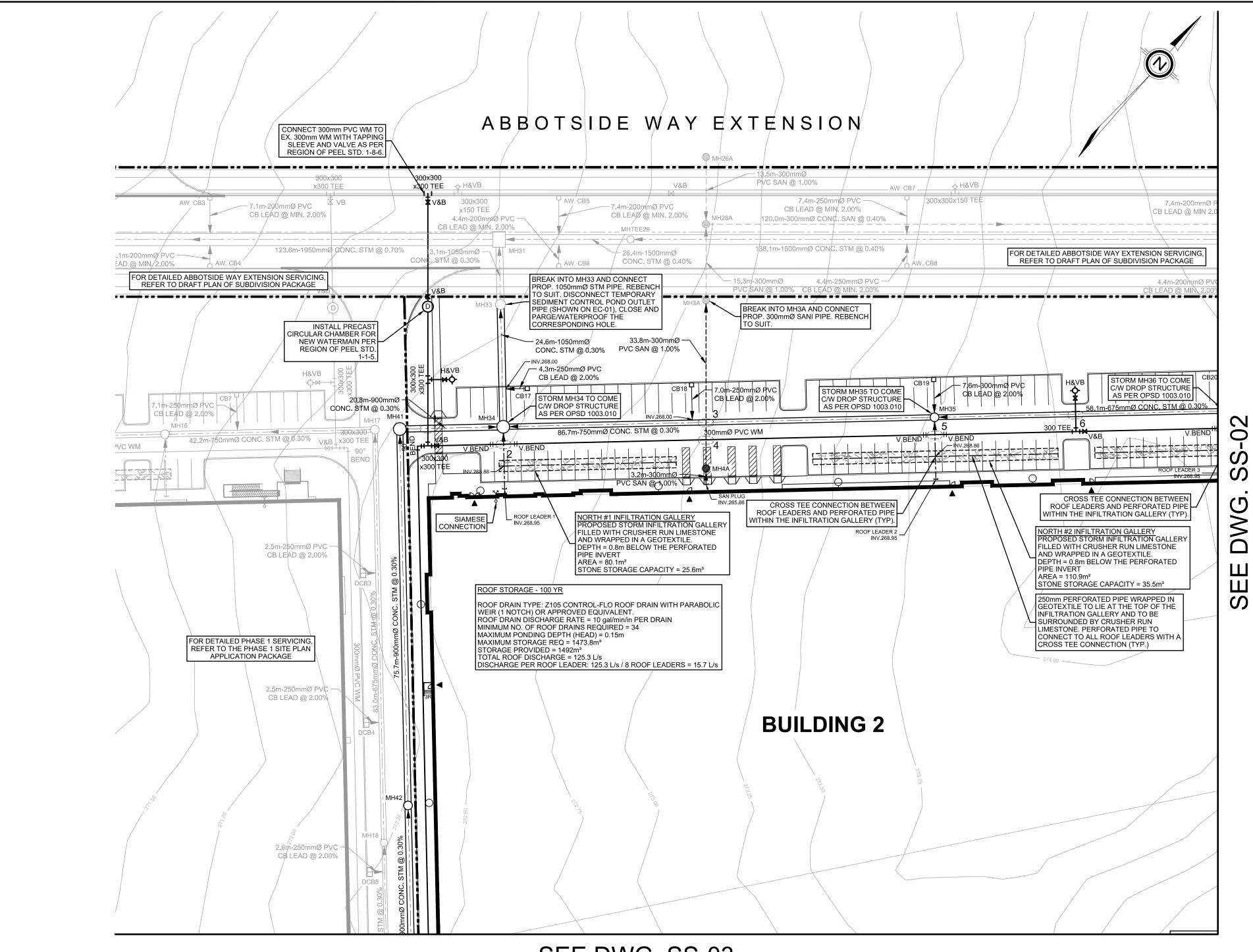


		Vortes C		]
	KEY PLAN	PH2-SITE ABBOTSIDE WAY EXTENSION HWY, 410 HWY, 410	2680 SKYMARK AVENUE, SI MISSISSAUGA, ON. L4W COPYRIGHT Mississission of the second state of the second sta	UITE 800 V5L6 use, thus any zed by IBI Group is icaled dimensions. and conditions on the dimensions and mitted to IBI Group brication.
SEE DWG. SG-04	LIST OF DRAWINGS SG-01 - PHASE 2 - SITE GRADING F SG-02 - PHASE 2 - SITE GRADING F SG-03 - PHASE 2 - SITE GRADING F SG-03 - PHASE 2 - SITE GRADING F SG-03 - PHASE 2 - SITE SERVICING SG-04 - PHASE 2 - SITE SERVICING SG-03 - PHASE 2 - SITE SERVICING SG-04 - PHASE 2 - SITE SERVICING SG-05 - PHASE 2 - SITE SERVICING SG-04 - PHASE 2 - DETAIL DRAWIN DD-04 - PHASE 2 - DETAIL DRAWIN SITE PLAN INFORMATION WARE MALCOMB	PLAN PLAN PLAN PLAN PLAN PLAN PLAN EDIMENT CONTROL PLAN EDIMENT CONTROL PLAN EDIMENT CONTROL PLAN EDIMENT CONTROL PLAN G G G G G SURVEYOR INFORMATION R-PE SURVEYING LTD. DNTARIO LAND SURVEYORS	No.       DESCRIPTION         1       ISSUED FOR SPA SUBMISSION         1       ISSUE SUBMISSION         1	enue hada 3 9983 ROAD J2 BY: D BY:
	TORONTO, ON. M5H 3E5 PHONE: (437) 537-5700 WEBSITE: www.waremalcomb.com BENCHMARK INFORMATION: ELEVATIONS ARE GEODETIC AND ARE REFER NUMBER 0081999991 HAVING AN ORTHOMETF ELEVATIONS ARE REFERENCED TO THE CANA 1928, 1978 ADJUSTMENT (CGVD-1928:1978).	RIC ELEVATION OF 265.112 METRES.	GRADING PLA Sheet NUMBER SG-03	



SEE DWG. SG-02

	TRANK AND	Core North	CLIEN	BROCCO	DLINI	
		PH2-SITE ABBOTSIDE WAY EXTENSION HWNY. 410		680 SKYMARK AVEN MISSISSAUGA, C		
			Con the jo	This drawing has been prepared solely for duction or distribution for any purpose oth idden. Written dimensions shall have pre- tractors shall verify and be responsible for , and IBI Group shall be informed of any i tions shown on the drawing. Shop drawin for general conformance before pro- IBI Group Professional Serv is a member of the IBI Group	er than authorized cedence over scale all dimensions and variations from the gs shall be submit ceeding with fabrica vices (Canad	I by IBI Group is ed dimensions. d conditions on e dimensions and tted to IBI Group ation.
	KEY PLAN		ISSUE No.		p or companies	DATE
			1	ISSUED FOR SPA SUBMISS	SION	APR 22, 2022
Ex. Dwelling			<u>LEGE</u>			
			PROF	ERTY LINE OSED GRADE		149.50
veway			PROF	ING GRADE OSED GRADE (TOP OF CURI	B) ×1	<i>149.33EX</i> 149.65TC
				OSED GRADE (BOTTOM OF	CURB) X1	149.65BC
50 CULVERT =269.72				OSED SANITARY MANHOLE		
				OSED SINGLE CATCH BASIN OSED DOUBLE CATCH BASI		
1.50 CULVERT V.=269.59 Driveway				ING STORM MANHOLE		
			EXIST	ING CATCH BASIN		
0710 OULVERT				OSED VALVE AND BOX OSED FIRE HYDRANT		⊠ V&B -∲- FH
				ING OVERLAND FLOW ROUT		
			OVER	LAND FLOW ROUTE		$\langle \neg$
00.40 CULVERT INV=269.48 Jk-Driveway			PROF	OSED STREET LIGHTING		⊡-●
LINV.=269.32						
			SEAL	SPROFESSION SPROFESSION SPROFESSION J.M. JENR PROFINICE OF C	CHGINEER INS 022	
				BI BI BI BI BI BI BI BI BI BI BI BI BI B	Varden Avenu 3 1B3 Canad	Je Ja
	LIST OF DRAWINGS SG-01 - PHASE 2 - SITE GRADING SG-02 - PHASE 2 - SITE GRADING SG-03 - PHASE 2 - SITE GRADING SG-03 - PHASE 2 - SITE GRADING SG-04 - PHASE 2 - SITE GRADING SS-01 - PHASE 2 - SITE GRADING SS-01 - PHASE 2 - SITE SERVICING SS-01 - PHASE 2 - SITE SERVICING SS-01 - PHASE 2 - SITE SERVICING	PLAN PLAN PLAN & PLAN	PROJE	BI BI BI BI BI BI BI BI BI BI BI BI BI B	Varden Avenu a 1B3 Canad fax 905 763 S AKE R 2 2	ue da 99983
	SG-01 - PHASE 2 - SITE GRADING SG-02 - PHASE 2 - SITE GRADING SG-03 - PHASE 2 - SITE GRADING SG 04 - PHASE 2 - SITE GRADING SS-01 - PHASE 2 - SITE SERVICING SS-02 - PAHSE 2 - SITE SERVICING SS-03 - PHASE 2 - SITE SERVICING SS-04 - PHASE 2 - SITE SERVICING EC-01 - PHASE 2 - SITE SERVICING EC-02 - PHASE 2 - EROSION AND S EC-03 - PHASE 2 - EROSION AND S EC-04 - PHASE 2 - EROSION AND S EC-04 - PHASE 2 - EROSION AND S EC-04 - PHASE 2 - DETAIL DRAWIN DD-02 - PHASE 2 - DETAIL DRAWIN	PLAN PLAN PLAN A PLAN A PLAN A PLAN BEDIMENT CONTROL PLAN BEDIMENT CONTROL PLAN BEDIMENT CONTROL PLAN BEDIMENT CONTROL PLAN BEDIMENT CONTROL PLAN	PROJE 13563 DRAW NDS	BI BI BI BI BI BI BI BI BI BI	ALED	ue da 99983 OAD 2 Y:
	SG-01 - PHASE 2 - SITE GRADING SG-02 - PHASE 2 - SITE GRADING SG-03 - PHASE 2 - SITE GRADING SG 04 - PHASE 2 - SITE GRADING SS-01 - PHASE 2 - SITE GRADING SS-02 - PAHSE 2 - SITE SERVICING SS-03 - PHASE 2 - SITE SERVICING SS-04 - PHASE 2 - SITE SERVICING EC-01 - PHASE 2 - SITE SERVICING EC-02 - PHASE 2 - EROSION AND S EC-03 - PHASE 2 - EROSION AND S EC-04 - PHASE 2 - EROSION AND S EC-04 - PHASE 2 - EROSION AND S EC-04 - PHASE 2 - DETAIL DRAWIN DD-02 - PHASE 2 - DETAIL DRAWIN DD-03 - PHASE 2 - DETAIL DRAWIN DD-04 - PHASE 2 - DETAIL DRAWIN	PLAN PLAN PLAN A PLAN A PLAN A PLAN BEDIMENT CONTROL PLAN BEDIMENT CONTROL PLAN BEDIMENT CONTROL PLAN BEDIMENT CONTROL PLAN BEDIMENT CONTROL PLAN IG	PROJE 1356 DRAW NDS PROJE JJ	BI BI BI BI BI CT NO: 36 N BY: CT MGR: PHASE 2	ALED	ue da 99983 OAD 2 Y: BY:
	SG-01 - PHASE 2 - SITE GRADING SG-02 - PHASE 2 - SITE GRADING SG-03 - PHASE 2 - SITE GRADING SG 04 - PHASE 2 - SITE GRADING SS-01 - PHASE 2 - SITE SERVICING SS-02 - PAHSE 2 - SITE SERVICING SS-03 - PHASE 2 - SITE SERVICING SS-04 - PHASE 2 - SITE SERVICING EC-01 - PHASE 2 - EROSION AND S EC-02 - PHASE 2 - EROSION AND S EC-03 - PHASE 2 - EROSION AND S EC-04 - PHASE 2 - EROSION AND S DD-01 - PHASE 2 - DETAIL DRAWIN DD-02 - PHASE 2 - DETAIL DRAWIN DD-03 - PHASE 2 - DETAIL DRAWIN DD-04 - PHASE 2 - DETAIL DRAWIN DD-04 - PHASE 2 - DETAIL DRAWIN DD-04 - PHASE 2 - DETAIL DRAWIN DD-05 - PHASE 2 - DETAIL DRAWIN DD-04 - PHASE 2 - DETAIL DRAWIN DD-05 - PHASE 2 - DETAIL DRAWIN DD-06 - PHASE 2 - DETAIL DRAWIN DD-07 - PHASE 2 - DETAIL DRAWIN DD-08 - PHASE 2 - DETAIL DRAWIN DD-09 - PHASE 2 - DETAIL DRAWIN	PLAN PLON PLON	PROJE 1356 DRAW NDS PROJE JJ	BI BI BI BI BI BI BI BI BI BI	ALED	ue da 99983 OAD 2 Y: BY:



SEE DWG. SS-03



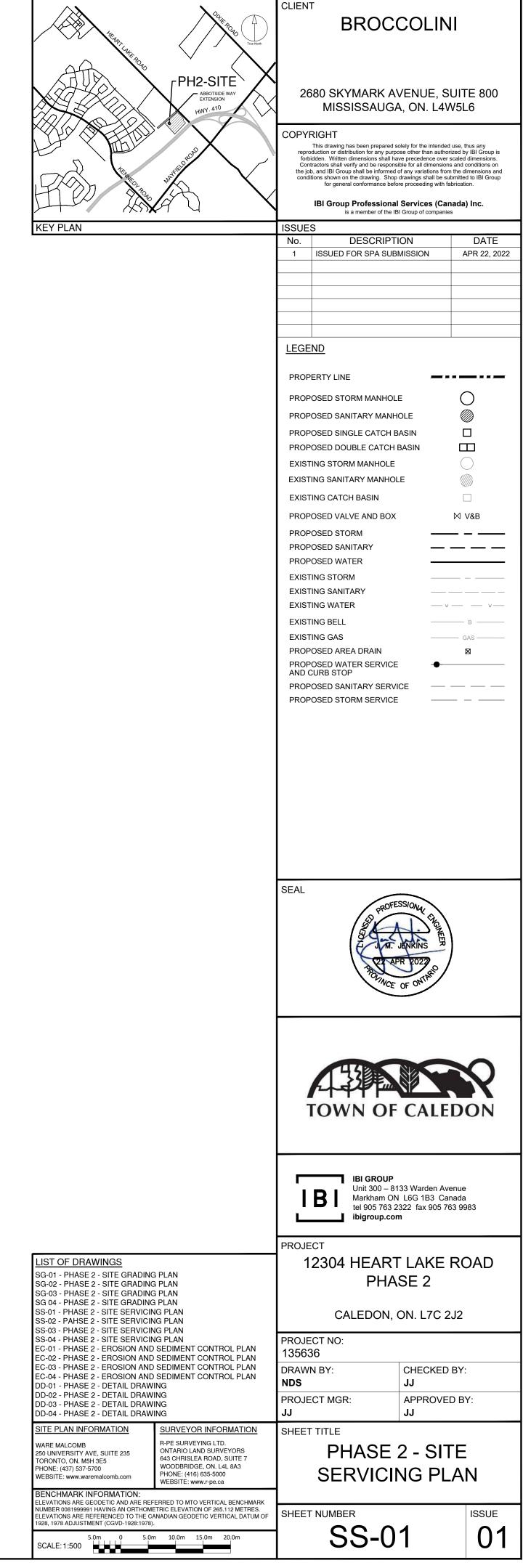
		STOP	MSEWER		
			RE INVENTOR	RY	
мн #	MH DIAMETER	MH OPSD	FRAME OPSD	TOP ELEV.	INVERTS
DCBMH1	1800mmø	OPSD 701.012	400.010 x2	270.25	NE 267.44 (825mmØ) NW 268.57 (250mmØ) SW 267.36 (900mmØ)
DCBMH2	1800mmø	OPSD 701.012	400.010 x2	270.25	NE 267.55 (825mmØ) SW 267.53 (825mmØ)
DCBMH3	1800mmø	OPSD 701.012	400.010 x2	270.25	NE 267.71 (750mmØ) NW 268.57 (250mmØ) SW 267.64 (825mmØ)
DCBMH4	1800mmø	OPSD 701.012	400.010	270.25	NE 267.88 (675mmØ) SW 267.80 (750mmØ)
DCBMH5	1800mmø	OPSD 701.012	400.010 x2	270.25	NE 268.04 (600mmØ) NW 268.57 (250mmØ) SW 267.97 (675mmØ)
DCBMH6	1800mmø	OPSD 701.012	400.010 x2	270.25	NE 268.21 (525mmØ) SW 268.13 (600mmØ)
DCBMH7	1500mmø	OPSD 701.012	400.010 x2	270.25	NW 268.57 (250mmØ) SW 268.30 (525mmØ)
MH31	3000mm x 2400mm	AS PER MANUFACTURER	401.010	270.68	NE 266.28 (1500mmØ) SE 266.28 (1050mmØ) SW 265.83 (1950mmØ)
MH33	1800mmø	OPSD 701.012	401.010	271.37	SE 266.34 (1050mmØ) NW 266.32 (1050mmØ)
MH34	2400mmø	OPSD 701.013	401.010	271.06	NE 266.71 (750mmØ) SE 268.70 (250mmØ) SW 266.56 (900mmØ) SE 267.26 (200mmØ)DR NW 266.41 (1050mmØ)
MH35	1500mmø	OPSD 701.011	401.010	271.01	NE 267.05 (675mmØ) NW 268.00 (300mmØ) SE 268.70 (250mmØ) SE 267.52 (200mmØ)DF SW 266.97 (750mmØ)
MH36	1200mmø	OPSD 701.010	401.010	271.01	NE 267.30 (600mmØ) SE 268.70 (250mmØ) NW 268.00 (300mmØ) SE 267.70 (200mmØ)DF SW 267.22 (675mmØ)
MH37	1200mmø	OPSD 701.010	401.010	271.15	NE 267.58 (525mmØ) SE 268.70 (250mmØ) NW 268.00 (250mmØ) SE 267.91 (200mmØ)DF SW 267.51 (600mmØ)
MH38	1500mmø	OPSD 701.011	401.010	271.16	SE 267.73 (525mmØ) SW 267.65 (525mmØ)
MH39	1200mmø	OPSD 701.010	401.010	271.12	SE 268.22 (300mmØ) NE 268.22 (300mmØ) NW 267.99 (525mmØ)
MH40	1200mmø	OPSD 701.010	401.010	270.84	SW 268.44 (250mmØ) NW 268.35 (300mmØ)
MH41	2400mmø	OPSD 701.013	401.010	270.74	SE 266.70 (900mmØ) NE 266.62 (900mmØ)
MH42	1500mmø	OPSD 701.011	401.010	270.84	SE 266.95 (900mmØ) NW 266.93 (900mmØ)
MH43	2400mmø	OPSD 701.013	401.010	270.82	NE 267.26 (900mmØ) NW 267.18 (900mmØ)

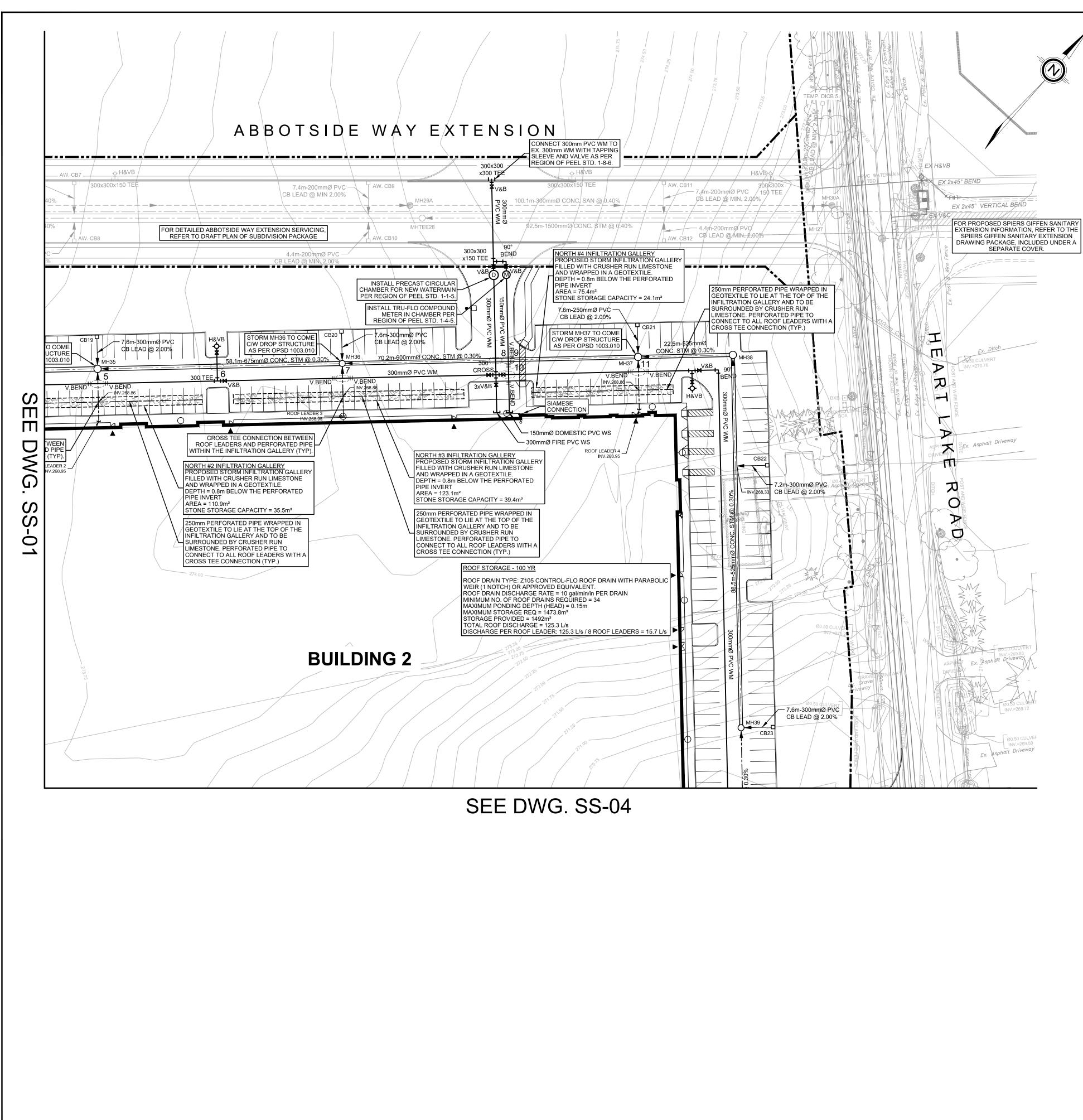
SANITARY SEWER STRUCTURE INVENTORY						
мн #	MH DIAMETER	MH OPSD	FRAME OPSD	TOP ELEV.	INVERTS	
MH3A	1200mmø	OPSD 701.010	401.010	271.27	SE 265.46 (300mmØ) NW 265.43 (300mmØ)	
MH4A	1200mmø	OPSD 701.010	401.010	271.44	SE 265.82 (300mmØ) NW 265.80 (300mmØ)	
MH28A	1200mmø	OPSD 701.010	401.010	270.90	NW 265.28 (300mmØ) SE 265.27 (300mmØ) NE 265.18 (300mmØ)	

	CATCHBASIN STRUCTURE INVENTORY							
СВ #	CB STD.	FRAME OPSD	TOP ELEV.	11				
CB17	OPSD 705.010	400.010	270.75	268.0				
CB18	OPSD 705.010	400.010	270.75	268.1				
CB19	OPSD 705.010	400.010	270.70	268.1				
CB20	OPSD 705.010	400.010	270.70	268.1				
CB21	OPSD 705.010	400.010	270.85	268.1				
CB22	OPSD 705.010	400.010	270.85	268.4				
CB23	OSPD 705.010	400.010	270.85	268.3				
CB24	OPSD 705.010	400.010	270.75	268.5				
CB25	OPSD 705.010	400.010	270.30	268.6				

PI	PE CROSSING		PIPE CROSSING SYMBOL	
1.	01111 0211 201100	STM INV. 268.77 WM OBV. 268.27 SEPERATION = 0.50m		SAN OBV. 266.00
4.	WM INV. 269.11 SAN OBV. 266.00 SEPERATION = 3.11m	STM INV. 268.77 WM OBV. 268.27 SEPERATION = 0.50m	6.	STM OBV. 267.81
7.	STM INV. 268.77 WM OBV. 268.27 SEPERATION = 0.50m	 WM INV. 269.10 STM OBV. 268.00 SEPERATION = 1.10m		WM INV. 269.17 STM OBV. 268.01 SEPERATION = 1.16m
10.	150 WM OBV. 268.65	STM INV. 268.77 WM OBV. 268.27 SEPERATION = 0.50m		STM CB INV. 268.53 WM OBV. 268.03 SEPERATION = 0.50m
13.	WM INV. 268.95 STM OBV. 268.16 SEPERATION = 0.79m			

INVERTS	
09 (250mmØ)	
14 (250mmØ)	
15 (300mmØ)	
15 (300mmØ)	
15 (250mmØ)	
47 (300mmØ)	
37 (300mmØ)	
53 (250mmØ)	
68 (300mmØ)	



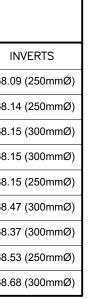


STORM SEWER STRUCTURE INVENTORY							
мн #	MH DIAMETER	MH OPSD	FRAME OPSD	TOP ELEV.	INVERTS		
DCBMH1	1800mmø	OPSD 701.012	400.010 x2	270.25	NE 267.44 (825mmØ) NW 268.57 (250mmØ) SW 267.36 (900mmØ)		
DCBMH2	1800mmø	OPSD 701.012	400.010 x2	270.25	NE 267.55 (825mmØ) SW 267.53 (825mmØ)		
DCBMH3	1800mmø	OPSD 701.012	400.010 x2	270.25	NE 267.71 (750mmØ) NW 268.57 (250mmØ) SW 267.64 (825mmØ)		
DCBMH4	1800mmø	OPSD 701.012	400.010	270.25	NE 267.88 (675mmØ) SW 267.80 (750mmØ)		
DCBMH5	1800mmø	OPSD 701.012	400.010 x2	270.25	NE 268.04 (600mmØ) NW 268.57 (250mmØ) SW 267.97 (675mmØ)		
DCBMH6	1800mmø	OPSD 701.012	400.010 x2	270.25	NE 268.21 (525mmØ) SW 268.13 (600mmØ)		
DCBMH7	1500mmø	OPSD 701.012	400.010 x2	270.25	NW 268.57 (250mmØ) SW 268.30 (525mmØ)		
MH31	3000mm x 2400mm	AS PER MANUFACTURER	401.010	270.68	NE 266.28 (1500mmØ) SE 266.28 (1050mmØ) SW 265.83 (1950mmØ)		
MH33	1800mmø	OPSD 701.012	401.010	271.37	SE 266.34 (1050mmØ) NW 266.32 (1050mmØ)		
MH34	2400mmø	OPSD 701.013	401.010	271.06	NE 266.71 (750mmØ) SE 268.70 (250mmØ) SW 266.56 (900mmØ) SE 267.26 (200mmØ)DR NW 266.41 (1050mmØ)		
MH35	1500mmø	OPSD 701.011	401.010	271.01	NE 267.05 (675mmØ) NW 268.00 (300mmØ) SE 268.70 (250mmØ) SE 267.52 (200mmØ)DR SW 266.97 (750mmØ)		
MH36	1200mmø	OPSD 701.010	401.010	271.01	NE 267.30 (600mmØ) SE 268.70 (250mmØ) NW 268.00 (300mmØ) SE 267.70 (200mmØ)DR SW 267.22 (675mmØ)		
MH37	1200mmø	OPSD 701.010	401.010	271.15	NE 267.58 (525mmØ) SE 268.70 (250mmØ) NW 268.00 (250mmØ) SE 267.91 (200mmØ)DR SW 267.51 (600mmØ)		
MH38	1500mmø	OPSD 701.011	401.010	271.16	SE 267.73 (525mmØ) SW 267.65 (525mmØ)		
МН39	1200mmø	OPSD 701.010	401.010	271.12	SE 268.22 (300mmØ) NE 268.22 (300mmØ) NW 267.99 (525mmØ)		
MH40	1200mmø	OPSD 701.010	401.010	270.84	SW 268.44 (250mmØ) NW 268.35 (300mmØ)		
MH41	2400mmø	OPSD 701.013	401.010	270.74	SE 266.70 (900mmØ) NE 266.62 (900mmØ)		
MH42	1500mmø	OPSD 701.011	401.010	270.84	SE 266.95 (900mmØ) NW 266.93 (900mmØ)		
MH43	2400mmø	OPSD 701.013	401.010	270.82	NE 267.26 (900mmØ) NW 267.18 (900mmØ)		

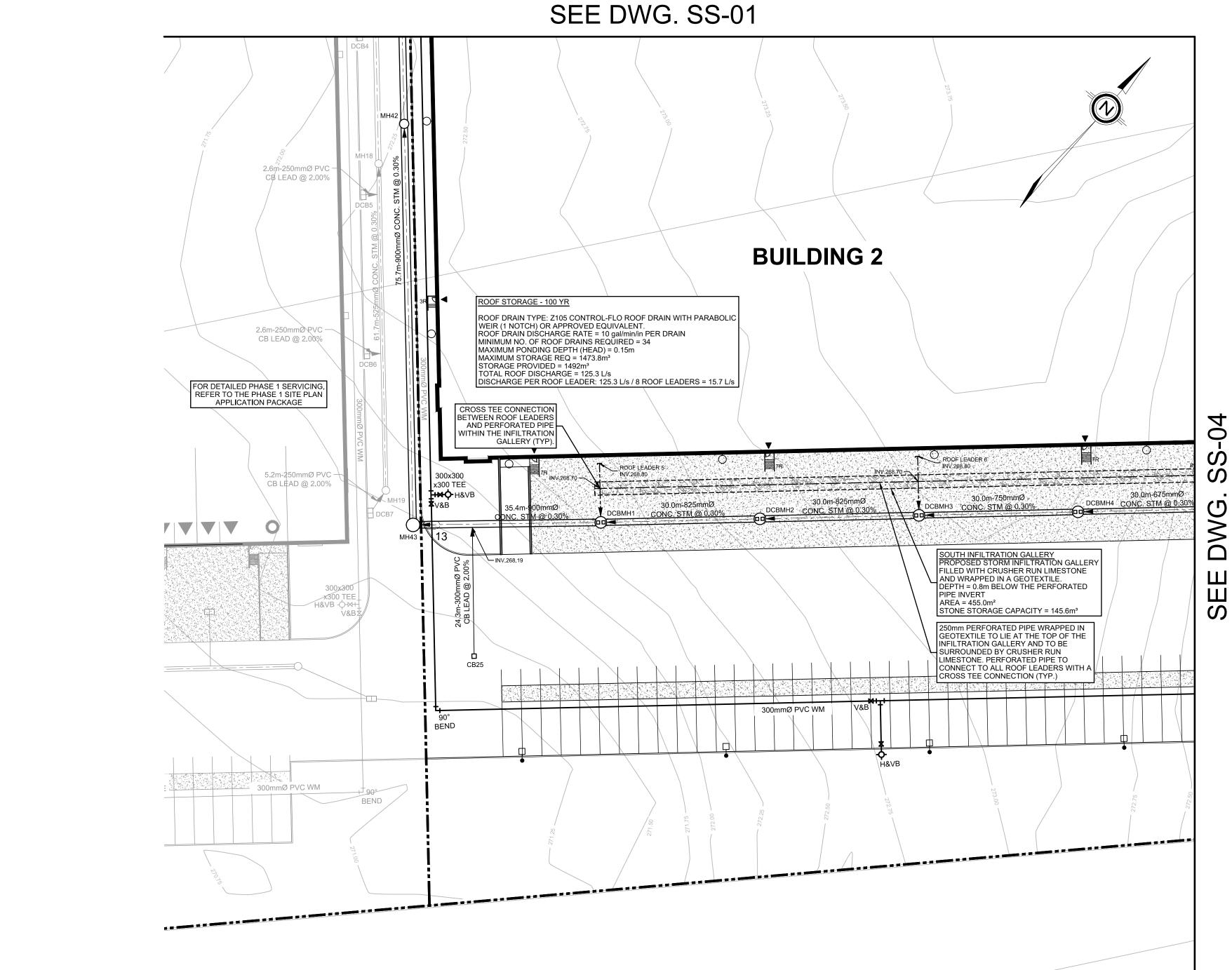
SANITARY SEWER STRUCTURE INVENTORY						
мн #	MH DIAMETER	MH OPSD	FRAME OPSD	TOP ELEV.	INVERTS	
мнза	1200mmø	OPSD 701.010	401.010	271.27	SE 265.46 (300mmØ) NW 265.43 (300mmØ)	
MH4A	1200mmø	OPSD 701.010	401.010	271.44	SE 265.82 (300mmØ) NW 265.80 (300mmØ)	
MH28A	1200mmø	OPSD 701.010	401.010	270.90	NW 265.28 (300mmØ) SE 265.27 (300mmØ) NE 265.18 (300mmØ)	

CATCHBASIN STRUCTURE INVENTORY							
CB #	CB STD.	FRAME OPSD	TOP ELEV.	11			
CB17	OPSD 705.010	400.010	270.75	268.0			
CB18	OPSD 705.010	400.010	270.75	268.1			
CB19	OPSD 705.010	400.010	270.70	268.1			
CB20	OPSD 705.010	400.010	270.70	268.1			
CB21	OPSD 705.010	400.010	270.85	268.1			
CB22	OPSD 705.010	400.010	270.85	268.4			
CB23	OSPD 705.010	400.010	270.85	268.3			
CB24	OPSD 705.010	400.010	270.75	268.5			
CB25	OPSD 705.010	400.010	270.30	268.6			

PIPE CROSSING INFORMATION     PIPE CROSSING SYMBOL					
1.	STM OBV. 267.50		STM INV. 268.77 WM OBV. 268.27 SEPERATION = 0.50m		SAN OBV. 266.00
4.			STM INV. 268.77 WM OBV. 268.27 SEPERATION = 0.50m		STM OBV. 267.81
7.	WM OBV. 268.27		WM INV. 269.10 STM OBV. 268.00 SEPERATION = 1.10m		STM OBV. 268.01
10.	150 WM OBV. 268.65		STM INV. 268.77 WM OBV. 268.27 SEPERATION = 0.50m		. STM CB INV. 268.53 WM OBV. 268.03 SEPERATION = 0.50m
13.	WM INV. 268.95 STM OBV. 268.16 SEPERATION = 0.79m				



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	PH2-SITE ABBOTSIDE WAY EXTENSION HWY 410	26	80 SKYMARK A MISSISSAUG	AVENUE, SUI 6A, ON. L4W5	
	W <sup>a</sup> t <sup>th</sup> Depart	forb Con the jo	This drawing has been prepared duction or distribution for any pur idden. Written dimensions shall tractors shall verify and be respo- b, and IBI Group shall be informe tions shown on the drawing. Sho for general conformance be	pose other than authorized I have precedence over scale nsible for all dimensions and d of any variations from the op drawings shall be submitte fore proceeding with fabrica al Services (Canada	by IBI Group is d dimensions. conditions on dimensions and ed to IBI Group tion.
KEY PLAN		ISSUE	is a member of the	IBI Group of companies	,
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		PROJE	B I Markham O tel 905 763 ibigroup.co	3133 Warden Avenue N L6G 1B3 Canada 2322 fax 905 763 9	a
LIST OF DRAWINGS SG-01 - PHASE 2 - SITE GRADING SG-02 - PHASE 2 - SITE GRADING SG-03 - PHASE 2 - SITE GRADING SG 04 - PHASE 2 - SITE GRADING SS-01 - PHASE 2 - SITE SERVICIN	G PLAN G PLAN G PLAN NG PLAN	•	2304 HEAR PHA	T LAKE RO ASE 2 ON. L7C 2J2	
SS-02 - PAHSE 2 - SITE SERVICIN SS-03 - PHASE 2 - SITE SERVICIN SS-04 - PHASE 2 - SITE SERVICIN	NG PLAN NG PLAN		CT NO:		
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DD-03 - PHASE 2 - DETAIL DRAW DD-04 - PHASE 2 - DETAIL DRAW	/ING /ING	JJ		JJ	ı.
SITE PLAN INFORMATION VARE MALCOMB 50 UNIVERSITY AVE, SUITE 235 "ORONTO, ON. M5H 3E5 "HONE: (437) 537-5700 VEBSITE: www.waremalcomb.com	SURVEYOR INFORMATION R-PE SURVEYING LTD. ONTARIO LAND SURVEYORS 643 CHRISLEA ROAD, SUITE 7 WOODBRIDGE, ON. L4L 8A3 PHONE: (416) 635-5000 WEBSITE: www.r-pe.ca	SHEET	PHASE SERVICI	2 - SITE NG PLA	
BENCHMARK INFORMATION: ELEVATIONS ARE GEODETIC AND ARE REF NUMBER 0081999991 HAVING AN ORTHOM	ERRED TO MTO VERTICAL BENCHMARK				1
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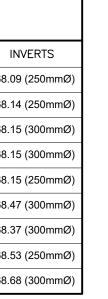
STORM SEWER STRUCTURE INVENTORY									
мн #	MH DIAMETER	MH OPSD	FRAME OPSD	TOP ELEV.	INVERTS				
DCBMH1	1800mmø	OPSD 701.012	400.010 x2	270.25	NE 267.44 (825mmØ) NW 268.57 (250mmØ) SW 267.36 (900mmØ)				
DCBMH2	1800mmø	OPSD 701.012	400.010 x2	270.25	NE 267.55 (825mmØ) SW 267.53 (825mmØ)				
DCBMH3	1800mmø	OPSD 701.012	400.010 x2	270.25	NE 267.71 (750mmØ) NW 268.57 (250mmØ) SW 267.64 (825mmØ)				
DCBMH4	1800mmø	OPSD 701.012	400.010	270.25	NE 267.88 (675mmØ) SW 267.80 (750mmØ)				
DCBMH5	1800mmø	OPSD 701.012	400.010 x2	270.25	NE 268.04 (600mmØ) NW 268.57 (250mmØ) SW 267.97 (675mmØ)				
DCBMH6	1800mmø	OPSD 701.012	400.010 x2	270.25	NE 268.21 (525mmØ) SW 268.13 (600mmØ)				
DCBMH7	1500mmø	OPSD 701.012	400.010 x2	270.25	NW 268.57 (250mmØ) SW 268.30 (525mmØ)				
MH31	3000mm x 2400mm	AS PER MANUFACTURER	401.010	270.68	NE 266.28 (1500mmØ) SE 266.28 (1050mmØ) SW 265.83 (1950mmØ)				
MH33	1800mmø	OPSD 701.012	401.010	271.37	SE 266.34 (1050mmØ) NW 266.32 (1050mmØ)				
MH34	2400mmø	OPSD 701.013	401.010	271.06	NE 266.71 (750mmØ) SE 268.70 (250mmØ) SW 266.56 (900mmØ) SE 267.26 (200mmØ)DF NW 266.41 (1050mmØ)				
MH35	1500mmø	OPSD 701.011	401.010	271.01	NE 267.05 (675mmØ) NW 268.00 (300mmØ) SE 268.70 (250mmØ) SE 267.52 (200mmØ)DF SW 266.97 (750mmØ)				
MH36	1200mmø	OPSD 701.010	401.010	271.01	NE 267.30 (600mmØ) SE 268.70 (250mmØ) NW 268.00 (300mmØ) SE 267.70 (200mmØ)DJ SW 267.22 (675mmØ)				
MH37	1200mmø	OPSD 701.010	401.010	271.15	NE 267.58 (525mmØ) SE 268.70 (250mmØ) NW 268.00 (250mmØ) SE 267.91 (200mmØ)DJ SW 267.51 (600mmØ)				
MH38	1500mmø	OPSD 701.011	401.010	271.16	SE 267.73 (525mmØ) SW 267.65 (525mmØ)				
MH39	1200mmø	OPSD 701.010	401.010	271.12	SE 268.22 (300mmØ) NE 268.22 (300mmØ) NW 267.99 (525mmØ)				
MH40	1200mmø	OPSD 701.010	401.010	270.84	SW 268.44 (250mmØ) NW 268.35 (300mmØ)				
MH41	2400mmø	OPSD 701.013	401.010	270.74	SE 266.70 (900mmØ) NE 266.62 (900mmØ)				
MH42	1500mmø	OPSD 701.011	401.010	270.84	SE 266.95 (900mmØ) NW 266.93 (900mmØ)				
MH43	2400mmø	OPSD 701.013	401.010	270.82	NE 267.26 (900mmØ) NW 267.18 (900mmØ)				

## SANITARY SEWER STRUCTURE INVENTO MH # MH DIAMETER MH OPSD FRAME OPSD MH3A 1200mmø OPSD 701.010 401.010 MH4A 1200mmø OPSD 701.010 401.010 MH28A 1200mmø OPSD 701.010 401.010

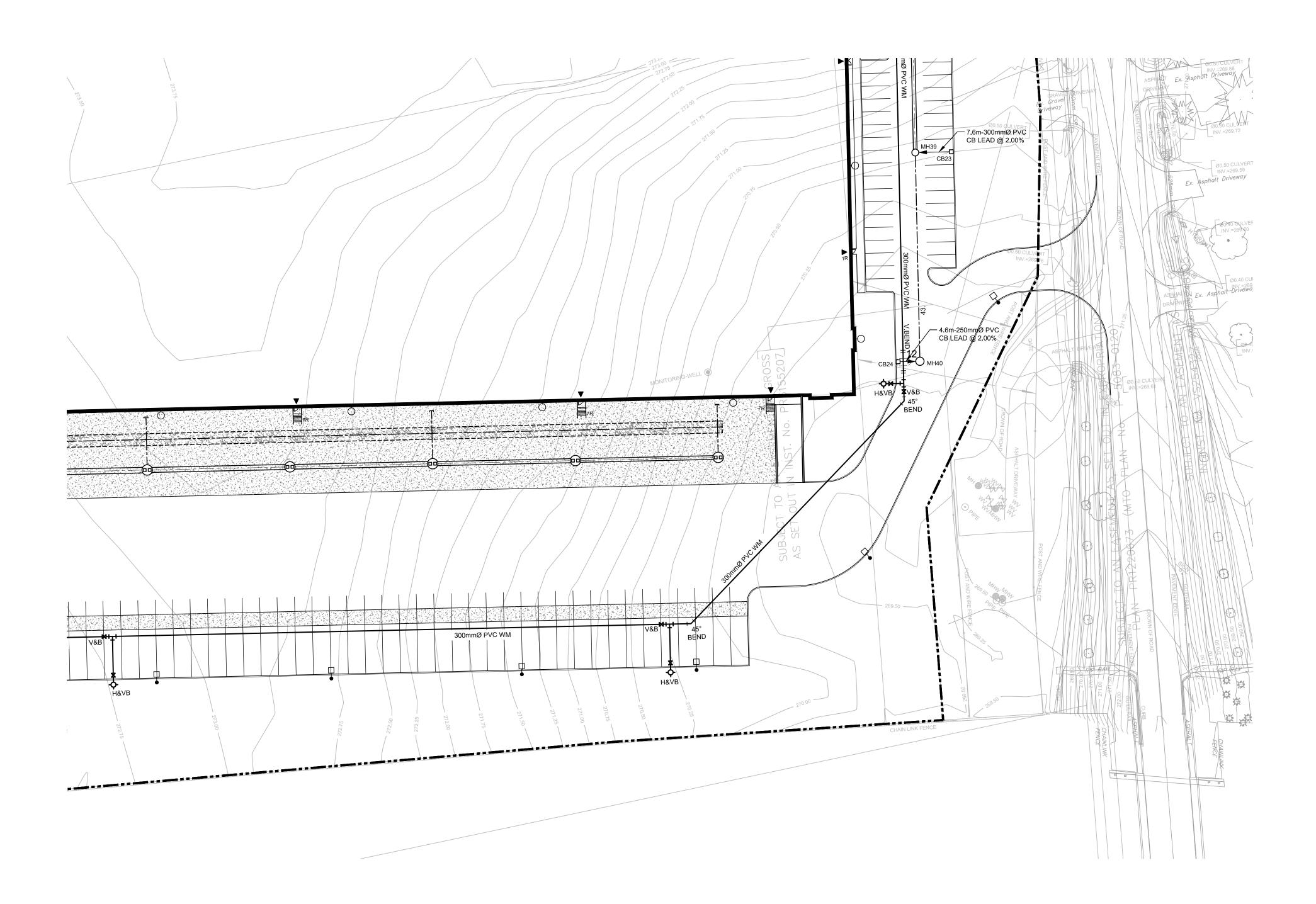
	CATCHBASIN STRUCTURE INVENTORY							
СВ #	CB STD.	FRAME OPSD	TOP ELEV.					
CB17	OPSD 705.010	400.010	270.75	268.0				
CB18	OPSD 705.010	400.010	270.75	268.1				
CB19	OPSD 705.010	400.010	270.70	268.1				
CB20	OPSD 705.010	400.010	270.70	268.7				
CB21	OPSD 705.010	400.010	270.85	268.1				
CB22	OPSD 705.010	400.010	270.85	268.4				
CB23	OSPD 705.010	400.010	270.85	268.3				
CB24	OPSD 705.010	400.010	270.75	268.				
CB25	OPSD 705.010	400.010	270.30	268.6				

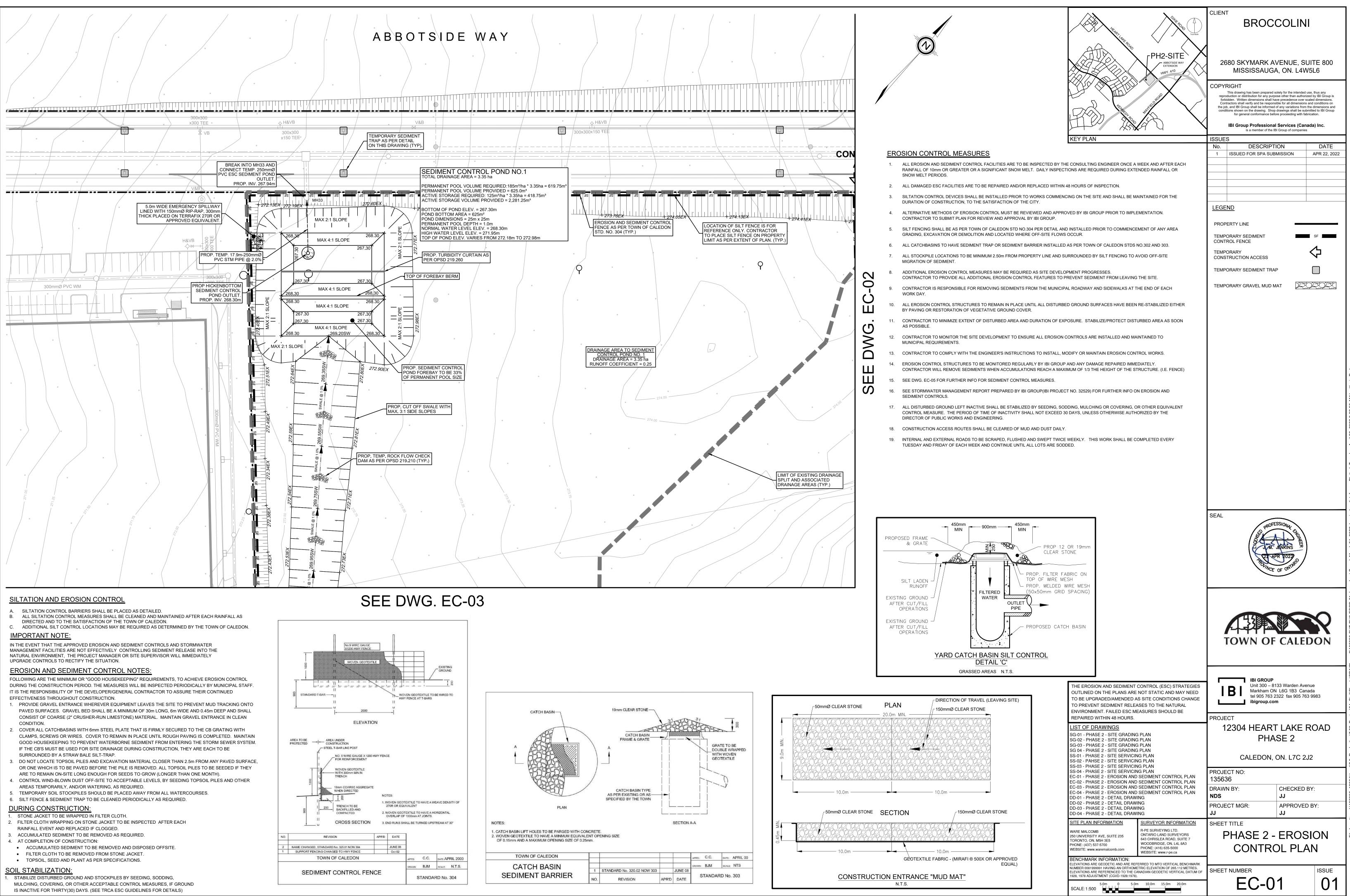
PI	PE CROSSING	PIPE CROSSING SYMBOL	
1.	WM INV. 268.73 STM OBV. 267.50 SEPERATION = 1.23m	WM OBV. 268.27	SAN OBV. 266.00
4.		STM INV. 268.77 WM OBV. 268.27 SEPERATION = 0.50m	STM OBV. 267.81
7.	WM OBV. 268.27	WM INV. 269.10 STM OBV. 268.00 SEPERATION = 1.10m	STM OBV. 268.01
10.	150 WM OBV. 268.65	STM INV. 268.77 WM OBV. 268.27 SEPERATION = 0.50m	 WM OBV. 268.03
13.	WM INV. 268.95 STM OBV. 268.16 SEPERATION = 0.79m		

INVERTS
SE 265.46 (300mmØ) NW 265.43 (300mmØ)
SE 265.82 (300mmØ) NW 265.80 (300mmØ)
NW 265.28 (300mmØ) SE 265.27 (300mmØ) NE 265.18 (300mmØ)

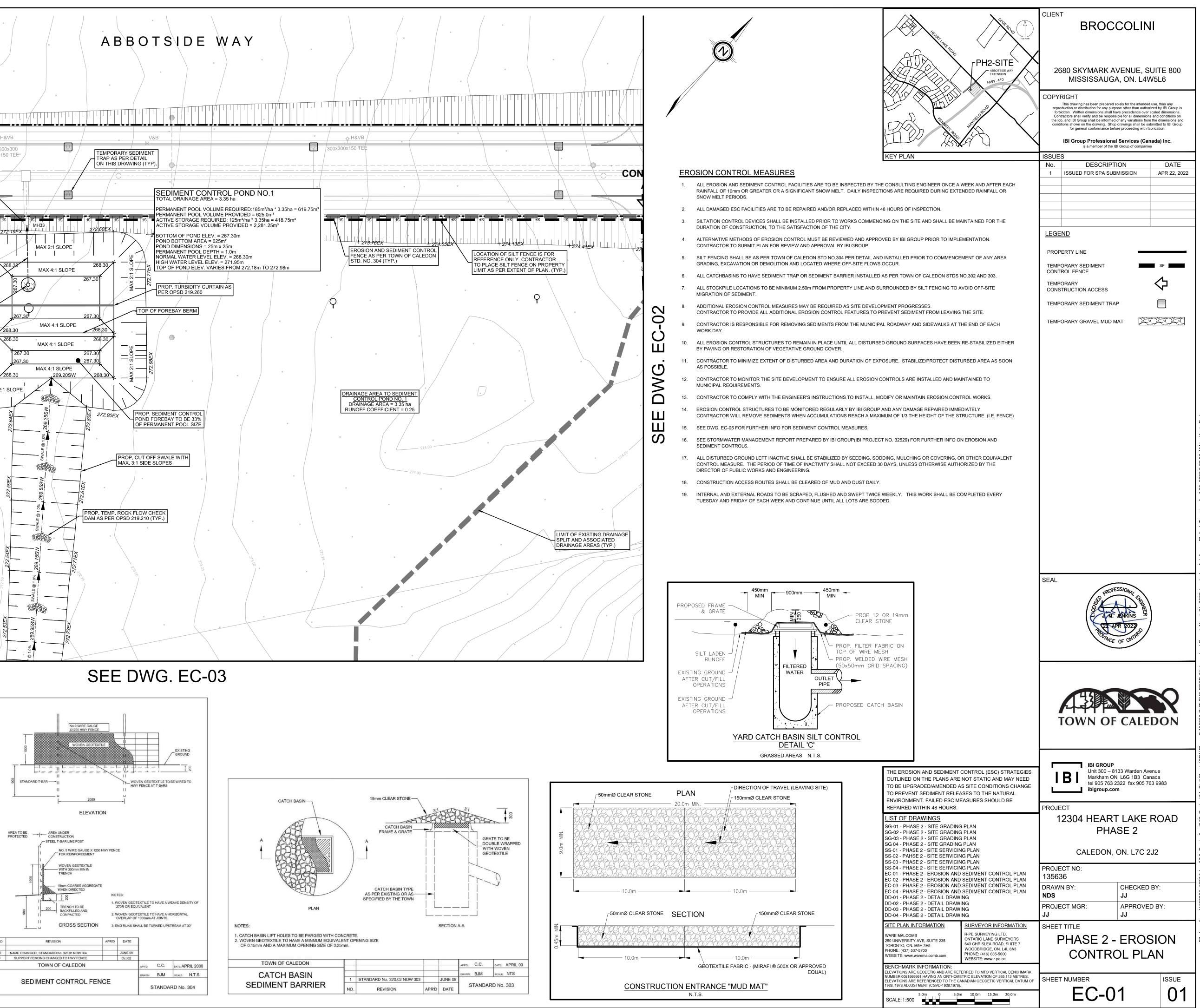


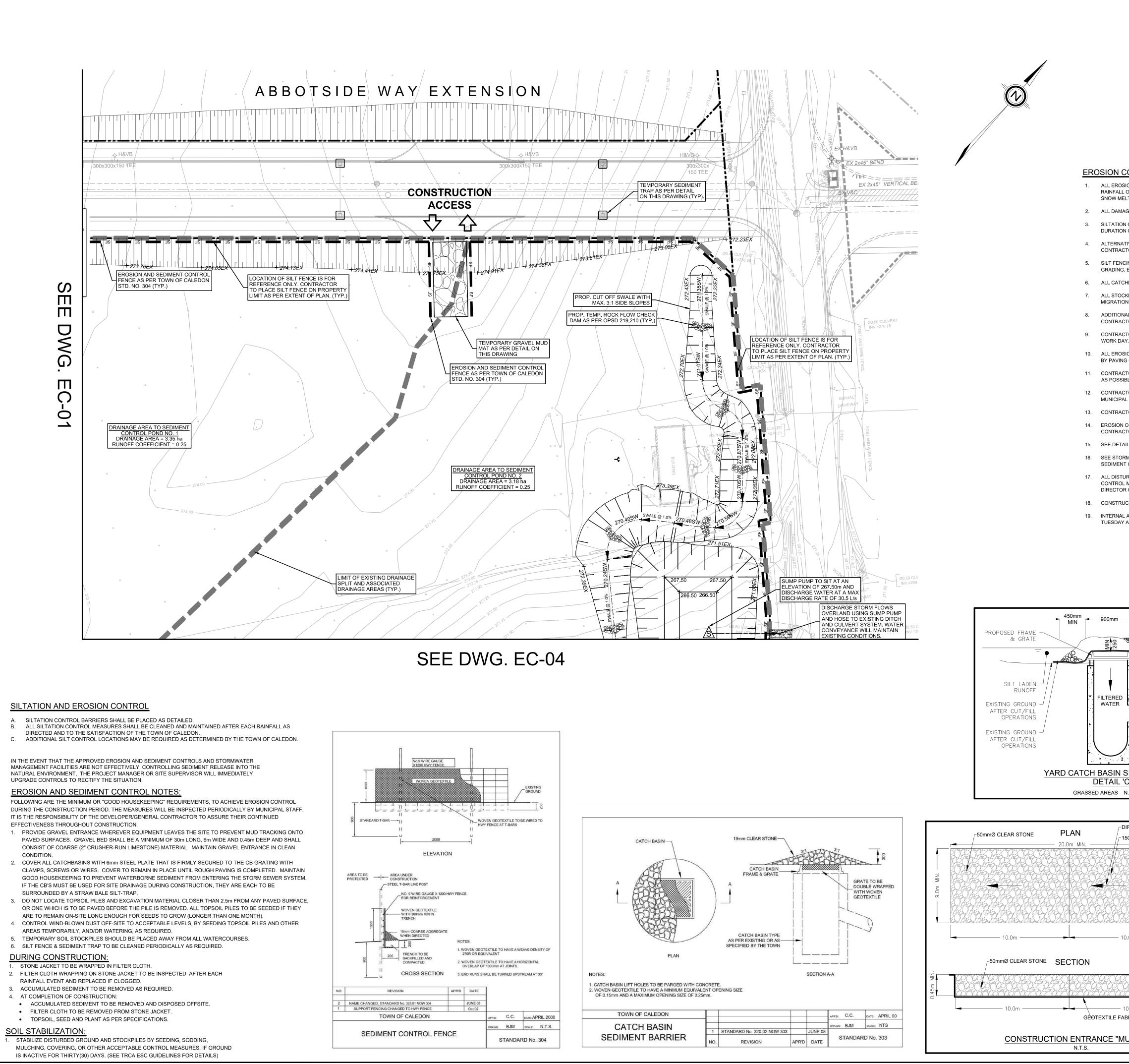
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	PH2-SITE ABBOTSIDE WAY EXTENSION HWY, 410	26	80 SKYMARK A MISSISSAUGA		
	Martin Constant	Con	RIGHT This drawing has been prepared s duction or distribution for any purp idden. Written dimensions shall ha ractors shall verify and be respons o, and IBI Group shall be informed	ose other than authorized b ave precedence over scaled sible for all dimensions and o	y IBI Group is I dimensions. conditions on
			tions shown on the drawing. Shop for general conformance befor IBI Group Professional	drawings shall be submitte pre proceeding with fabricati	d to IBI Group ion.
KEY PLAN		ISSUE No.	DESCRIPT		
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		PROP	OSED SINGLE CATCH E OSED DOUBLE CATCH	_	
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			B Markham ON tel 905 763 2 ibigroup.cor	133 Warden Avenue N L6G 1B3 Canada 2322 fax 905 763 99 m	I
LIST OF DRAWINGS SG-01 - PHASE 2 - SITE GRADING SG-02 - PHASE 2 - SITE GRADING SG-03 - PHASE 2 - SITE GRADING	G PLAN G PLAN	proje 1	2304 HEAR1	Γ LAKE RO SE 2	DAD
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WARE MALCOMB 250 UNIVERSITY AVE, SUITE 235 TORONTO, ON. M5H 3E5 PHONE: (437) 537-5700 WEBSITE: www.waremalcomb.com BENCHMARK INFORMATION:	R-PE SURVEYING LTD. ONTARIO LAND SURVEYORS 643 CHRISLEA ROAD, SUITE 7 WOODBRIDGE, ON. L4L 8A3 PHONE: (416) 635-5000 WEBSITE: www.r-pe.ca	SHEET	PHASE		
BENCHMARK INFORMATION: ELEVATIONS ARE GEODETIC AND ARE REF NUMBER 0081999991 HAVING AN ORTHOM ELEVATIONS ARE REFERENCED TO THE C 1928, 1978 ADJUSTMENT (CGVD-1928:1978)	ETRIC ELEVATION OF 265.112 METRES. ANADIAN GEODETIC VERTICAL DATUM OF	SHEET	NUMBER		ISSUE
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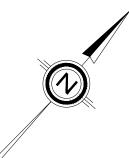


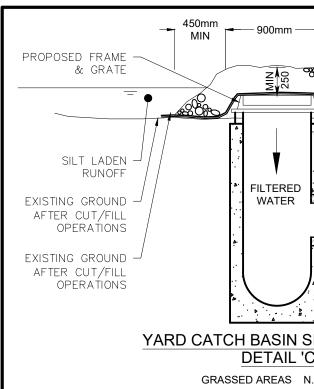




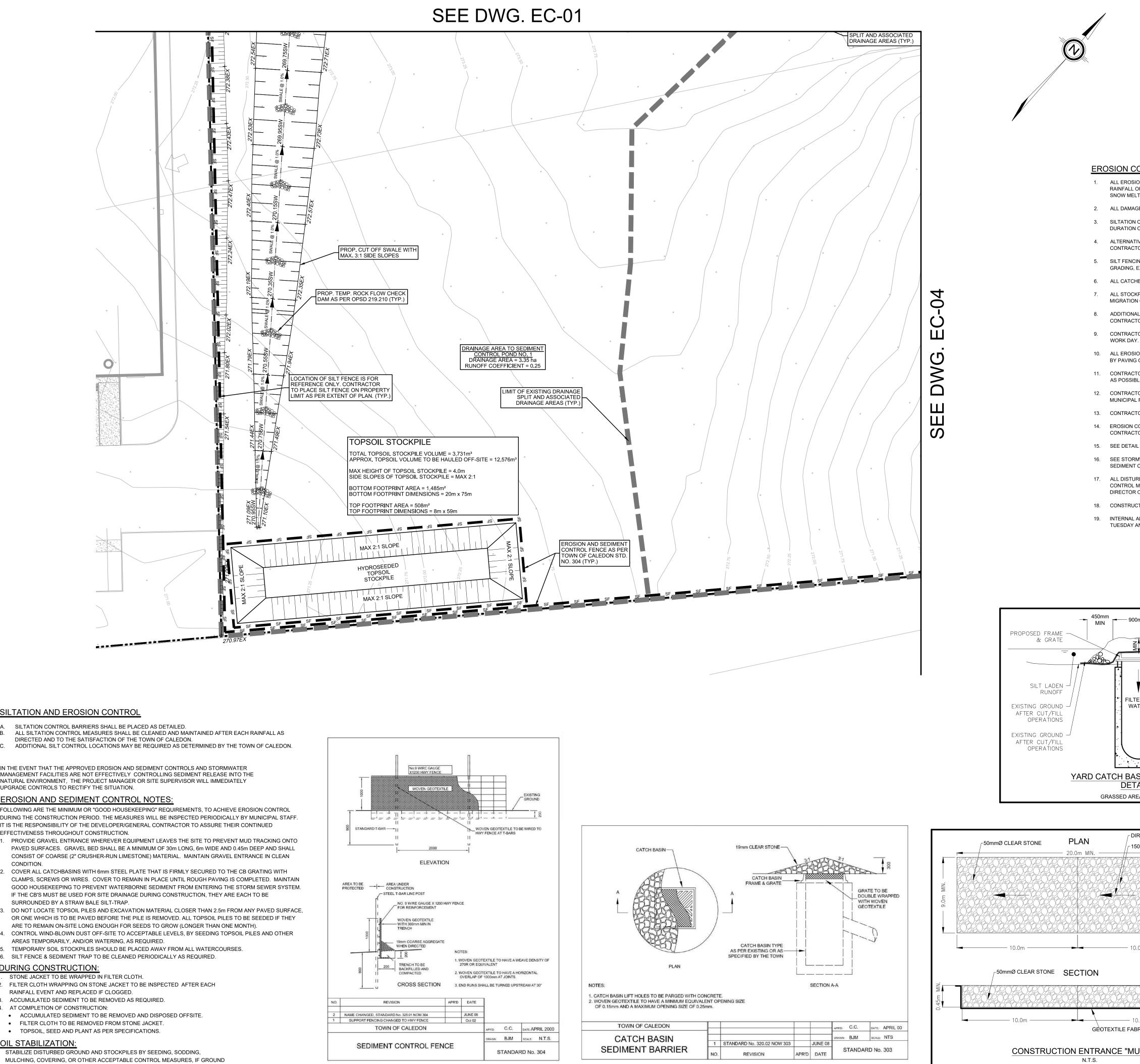








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		PH2-SITE	26	680 SKYMARK AVENUE, S	UITE 800
		EXTENSION HWYY, 410		MISSISSAUGA, ON. L4V	
	L'AN CARE		repr	RIGHT This drawing has been prepared solely for the intended oduction or distribution for any purpose other than author idden. Written dimensions shall have precedence over :	ized by IBI Group is
			Cor the ic	tractors shall verify and be responsible for all dimension: bb, and IBI Group shall be informed of any variations from litions shown on the drawing. Shop drawings shall be su for general conformance before proceeding with fa	s and conditions on the dimensions and
				IBI Group Professional Services (Car is a member of the IBI Group of companie	
	KEY PLAN		ISSUE No.	DESCRIPTION	DATE
CONTROL MEASURES SION AND SEDIMENT CONTROL FACILITIES ARE TO BE INSPECTE L OF 10mm OR GREATER OR A SIGNIFICANT SNOW MELT. DAILY I				ISSUED FOR SPA SUBMISSION	APR 22, 2022
AGED ESC FACILITIES ARE TO BE REPAIRED AND/OR REPLACED					
IN CONTROL DEVICES SHALL BE INSTALLED PRIOR TO WORKS CO IN OF CONSTRUCTION, TO THE SATISFACTION OF THE CITY.	DMMENCING ON THE SITE AND SHA	LL BE MAINTAINED FOR THE			
ATIVE METHODS OF EROSION CONTROL MUST BE REVIEWED AND CTOR TO SUBMIT PLAN FOR REVIEW AND APPROVAL BY IBI GROU		O IMPLEMENTATION.	LEGE		
CING SHALL BE AS PER TOWN OF CALEDON STD NO.304 PER DE 6, EXCAVATION OR DEMOLITION AND LOCATED WHERE OFF-SITE		IMENCEMENT OF ANY AREA	TEMF		SF _
CHBASINS TO HAVE SEDIMENT TRAP OR SEDIMENT BARRIER INS			TEMF	PORARY STRUCTION ACCESS	<b>\</b>
ON OF SEDIMENT.			TEMF	PORARY SEDIMENT TRAP	
CTOR TO PROVIDE ALL ADDITIONAL EROSION CONTROL FEATUR CTOR IS RESPONSIBLE FOR REMOVING SEDIMENTS FROM THE M AY.		-	TEMF	PORARY GRAVEL MUD MAT	77070
SION CONTROL STRUCTURES TO REMAIN IN PLACE UNTIL ALL DI IG OR RESTORATION OF VEGETATIVE GROUND COVER.	STURBED GROUND SURFACES HAV	'E BEEN RE-STABILIZED EITHER			
CTOR TO MINIMIZE EXTENT OF DISTURBED AREA AND DURATION IBLE.	I OF EXPOSURE. STABILIZE/PROTE	CT DISTURBED AREA AS SOON			
CTOR TO MONITOR THE SITE DEVELOPMENT TO ENSURE ALL ER AL REQUIREMENTS.	OSION CONTROLS ARE INSTALLED	AND MAINTAINED TO			
CTOR TO COMPLY WITH THE ENGINEER'S INSTRUCTIONS TO INS					
AIL PAGE FOR FURTHER INFO FOR SEDIMENT CONTROL MEASUF	A MAXIMUM OF 1/3 THE HEIGHT OF				
RMWATER MANAGEMENT REPORT PREPARED BY IBI GROUP(IBI I IT CONTROLS.	PROJECT NO. 32529) FOR FURTHER	INFO ON EROSION AND			
URBED GROUND LEFT INACTIVE SHALL BE STABILIZED BY SEEDI L MEASURE. THE PERIOD OF TIME OF INACTIVITY SHALL NOT EX R OF PUBLIC WORKS AND ENGINEERING.					
UCTION ACCESS ROUTES SHALL BE CLEARED OF MUD AND DUST	T DAILY.				
L AND EXTERNAL ROADS TO BE SCRAPED, FLUSHED AND SWEPT Y AND FRIDAY OF EACH WEEK AND CONTINUE UNTIL ALL LOTS AF		LL BE COMPLETED EVERY			
450mm			SEAL	PROFESSIONA	
MIN					
PROP 12 OR 19mm CLEAR STONE				2 JAM. JENKINS 5	)
PROP. FILTER FABRIC ON				ROLINCE OF ONTAGO	
TOP OF WIRE MESH PROP. WELDED WIRE MESH (50x50mm GRID SPACING)					
OUTLET PIPE					
PROPOSED CATCH BASIN					
				TOWN OF CALE	DON
SILT CONTROL 'C'					
N.T.S.				IBI GROUP Unit 300 – 8133 Warden Ave	anue
DIRECTION OF TRAVEL (LEAVING SITE)	THE EROSION AND SEDIMENT OUTLINED ON THE PLANS ARE TO BE UPGRADED/AMENDED A	NOT STATIC AND MAY NEED S SITE CONDITIONS CHANGE		B I Unit 300 – 8133 Warden Ave Markham ON L6G 1B3 Can tel 905 763 2322 fax 905 76 ibigroup.com	nada
150mmØ CLEAR STONE	TO PREVENT SEDIMENT RELEA ENVIRONMENT. FAILED ESC MI REPAIRED WITHIN 48 HOURS.		PROJE		
	LIST OF DRAWINGS SG-01 - PHASE 2 - SITE GRADING		1	2304 HEART LAKE	ROAD
	SG-02 - PHASE 2 - SITE GRADING SG-03 - PHASE 2 - SITE GRADING SG 04 - PHASE 2 - SITE GRADING SS-01 - PHASE 2 - SITE SERVICIN	à PLAN à PLAN		PHASE 2	10
	SS-01 - PHASE 2 - SITE SERVICIN SS-02 - PAHSE 2 - SITE SERVICIN SS-03 - PHASE 2 - SITE SERVICIN SS-04 - PHASE 2 - SITE SERVICIN	IG PLAN IG PLAN	PROJE	CALEDON, ON. L7C 2	JZ
	EC-01 - PHASE 2 - EROSION AND EC-02 - PHASE 2 - EROSION AND EC-03 - PHASE 2 - EROSION AND	SEDIMENT CONTROL PLAN SEDIMENT CONTROL PLAN SEDIMENT CONTROL PLAN	1356 DRAW	36	BY:
10.0m	EC-04 - PHASE 2 - EROSION AND DD-01 - PHASE 2 - DETAIL DRAW DD-02 - PHASE 2 - DETAIL DRAW DD-03 - PHASE 2 - DETAIL DRAW	ING ING	NDS	ECT MGR: APPROVE	
- 150mmØ CLEAR STONE	DD-03 - PHASE 2 - DETAIL DRAW DD-04 - PHASE 2 - DETAIL DRAW <u>SITE PLAN INFORMATION</u>		JJ		
	WARE MALCOMB 250 UNIVERSITY AVE, SUITE 235 TORONTO, ON. M5H 3E5	R-PE SURVEYING LTD. ONTARIO LAND SURVEYORS 643 CHRISLEA ROAD, SUITE 7 WOODBBIDGE ON 141 843		PHASE 2 - EROS	SION
10.0m	PHONE: (437) 537-5700 WEBSITE: www.waremalcomb.com BENCHMARK INFORMATION:	WOODBRIDGE, ON. L4L 8A3 PHONE: (416) 635-5000 WEBSITE: www.r-pe.ca		CONTROL PL/	AN
EQUAL)	BENCHWARK INFORMATION: ELEVATIONS ARE GEODETIC AND ARE REF NUMBER 0081999991 HAVING AN ORTHOME ELEVATIONS ARE REFERENCED TO THE C, 1928, 1978 ADJUSTMENT (CGVD-1928:1978)	TRIC ELEVATION OF 265.112 METRES.	SHEE		ISSUE
	5.0m 0 5.0r SCALE: 1:500	n 10.0m 15.0m 20.0m		EC-02	01



SILTATION AND EROSION CONTROL

- A. SILTATION CONTROL BARRIERS SHALL BE PLACED AS DETAILED.
- DIRECTED AND TO THE SATISFACTION OF THE TOWN OF CALEDON. C. ADDITIONAL SILT CONTROL LOCATIONS MAY BE REQUIRED AS DETERMINED BY THE TOWN OF CALEDON.

IN THE EVENT THAT THE APPROVED EROSION AND SEDIMENT CONTROLS AND STORMWATER MANAGEMENT FACILITIES ARE NOT EFFECTIVELY CONTROLLING SEDIMENT RELEASE INTO THE NATURAL ENVIRONMENT, THE PROJECT MANAGER OR SITE SUPERVISOR WILL IMMEDIATELY UPGRADE CONTROLS TO RECTIFY THE SITUATION.

## EROSION AND SEDIMENT CONTROL NOTES:

FOLLOWING ARE THE MINIMUM OR "GOOD HOUSEKEEPING" REQUIREMENTS, TO ACHIEVE EROSION CONTROL DURING THE CONSTRUCTION PERIOD. THE MEASURES WILL BE INSPECTED PERIODICALLY BY MUNICIPAL STAFF. IT IS THE RESPONSIBILITY OF THE DEVELOPER/GENERAL CONTRACTOR TO ASSURE THEIR CONTINUED

- EFFECTIVENESS THROUGHOUT CONSTRUCTION. 1. PROVIDE GRAVEL ENTRANCE WHEREVER EQUIPMENT LEAVES THE SITE TO PREVENT MUD TRACKING ONTO PAVED SURFACES. GRAVEL BED SHALL BE A MINIMUM OF 30m LONG, 6m WIDE AND 0.45m DEEP AND SHALL CONSIST OF COARSE (2" CRUSHER-RUN LIMESTONE) MATERIAL. MAINTAIN GRAVEL ENTRANCE IN CLEAN CONDITION.
- . COVER ALL CATCHBASINS WITH 6mm STEEL PLATE THAT IS FIRMLY SECURED TO THE CB GRATING WITH CLAMPS, SCREWS OR WIRES. COVER TO REMAIN IN PLACE UNTIL ROUGH PAVING IS COMPLETED. MAINTAIN GOOD HOUSEKEEPING TO PREVENT WATERBORNE SEDIMENT FROM ENTERING THE STORM SEWER SYSTEM. IF THE CB'S MUST BE USED FOR SITE DRAINAGE DURING CONSTRUCTION, THEY ARE EACH TO BE SURROUNDED BY A STRAW BALE SILT-TRAP.
- 3. DO NOT LOCATE TOPSOIL PILES AND EXCAVATION MATERIAL CLOSER THAN 2.5m FROM ANY PAVED SURFACE, OR ONE WHICH IS TO BE PAVED BEFORE THE PILE IS REMOVED. ALL TOPSOIL PILES TO BE SEEDED IF THEY ARE TO REMAIN ON-SITE LONG ENOUGH FOR SEEDS TO GROW (LONGER THAN ONE MONTH). 4. CONTROL WIND-BLOWN DUST OFF-SITE TO ACCEPTABLE LEVELS, BY SEEDING TOPSOIL PILES AND OTHER
- AREAS TEMPORARILY, AND/OR WATERING, AS REQUIRED.
- 6. SILT FENCE & SEDIMENT TRAP TO BE CLEANED PERIODICALLY AS REQUIRED.

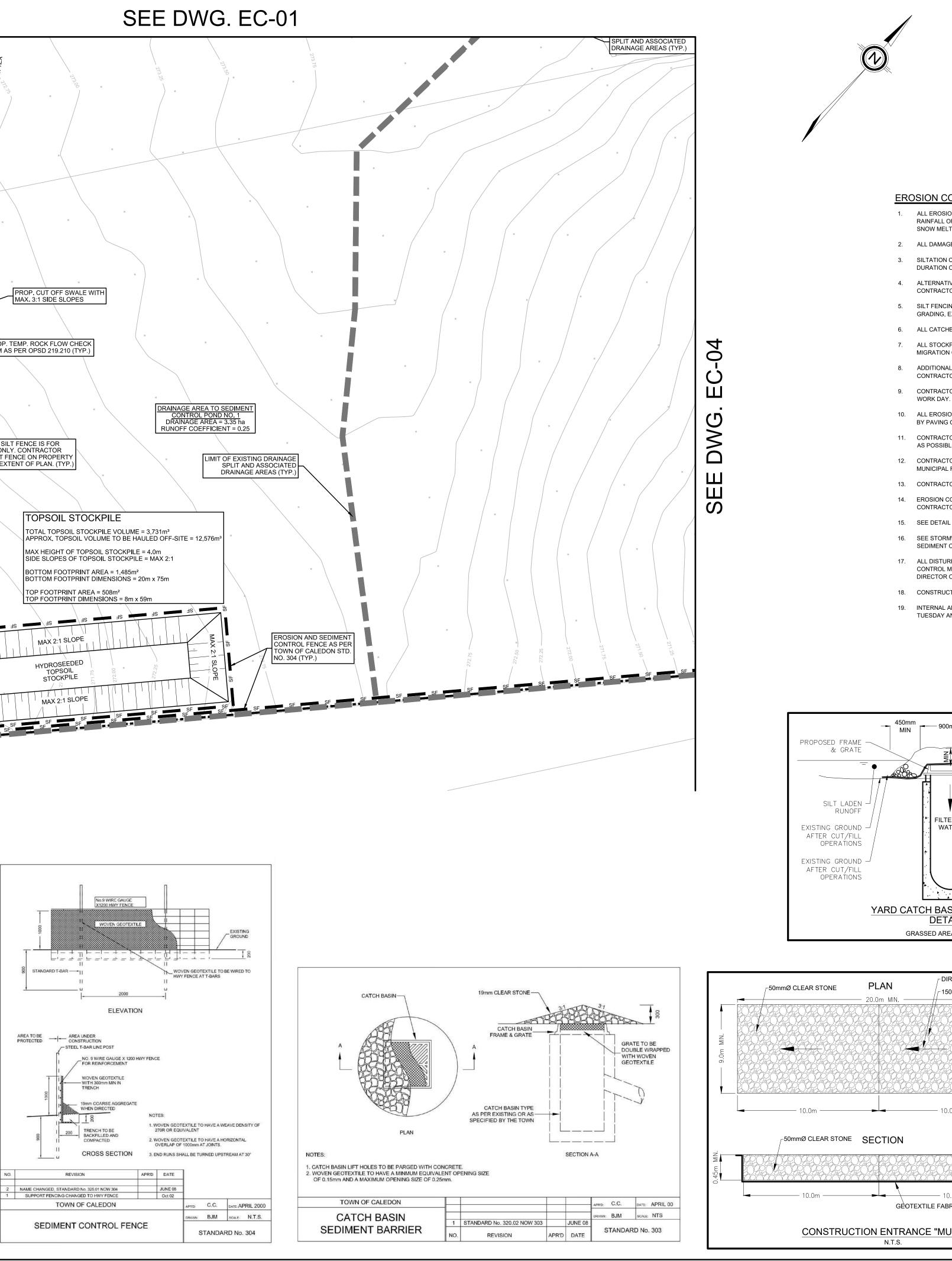
## DURING CONSTRUCTION:

STONE JACKET TO BE WRAPPED IN FILTER CLOTH. 2. FILTER CLOTH WRAPPING ON STONE JACKET TO BE INSPECTED AFTER EACH RAINFALL EVENT AND REPLACED IF CLOGGED.

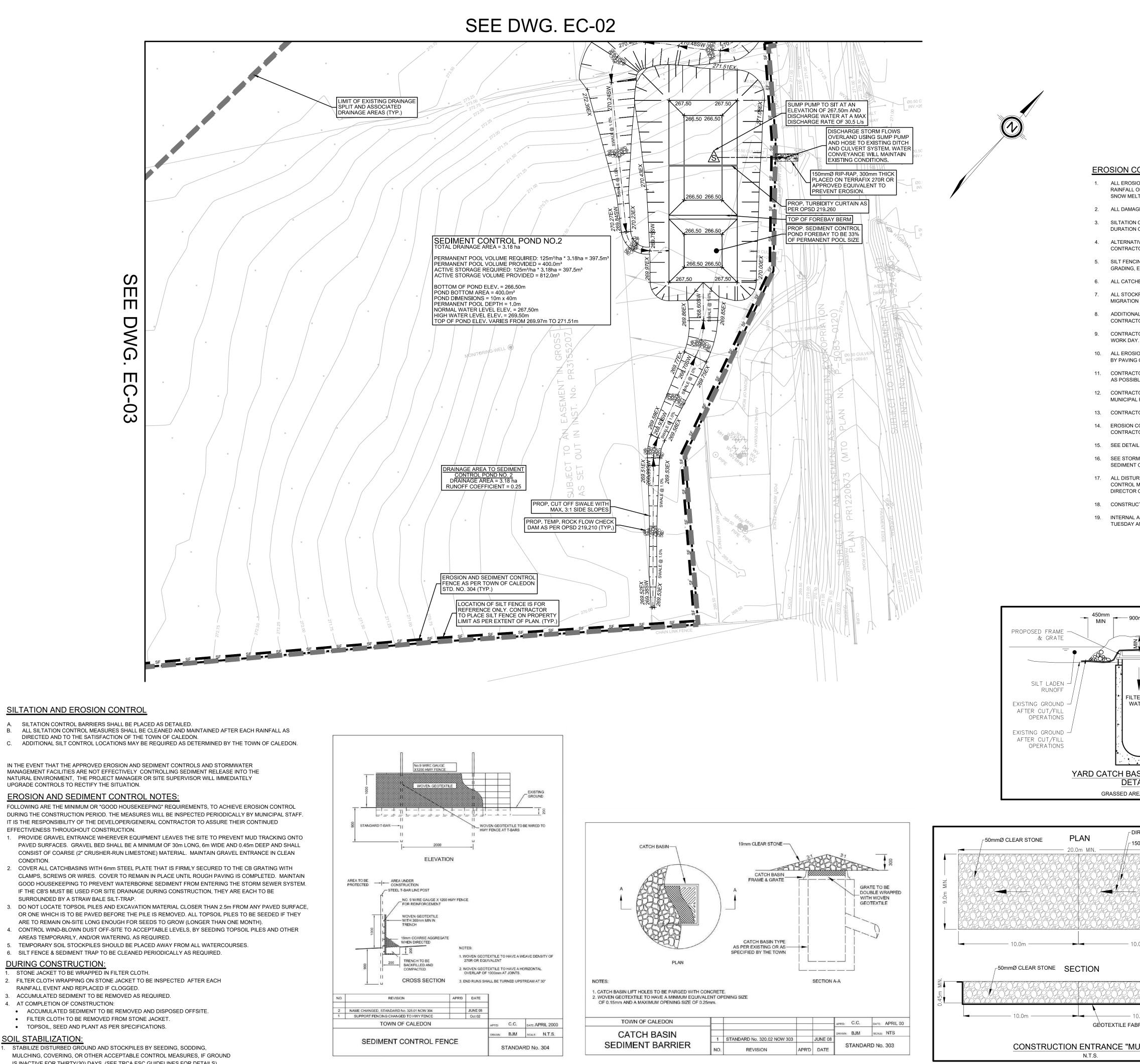
- ACCUMULATED SEDIMENT TO BE REMOVED AS REQUIRED.
- 4. AT COMPLETION OF CONSTRUCTION:
- ACCUMULATED SEDIMENT TO BE REMOVED AND DISPOSED OFFSITE.
- FILTER CLOTH TO BE REMOVED FROM STONE JACKET.

## SOIL STABILIZATION:

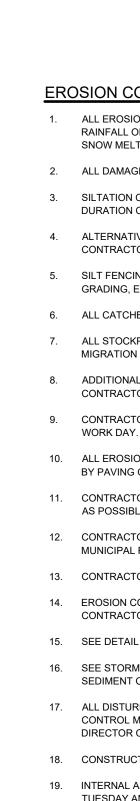
STABILIZE DISTURBED GROUND AND STOCKPILES BY SEEDING, SODDING, MULCHING, COVERING, OR OTHER ACCEPTABLE CONTROL MEASURES, IF GROUND IS INACTIVE FOR THIRTY(30) DAYS. (SEE TRCA ESC GUIDELINES FOR DETAILS)



		Port Report	CLIEN		COLINI	
		PH2-SITE ABBOTSIDE WAY EXTENSION HWY. 410	20	680 SKYMARK A MISSISSAUG		
				RIGHT This drawing has been prepared a oduction or distribution for any purp	solely for the intended us	e, thus any d by IBI Group is
			for Con the jo	bidden. Written dimensions shall h ntractors shall verify and be respon- bo, and IBI Group shall be informed ditions shown on the drawing. Shop for general conformance bef	ave precedence over sca sible for all dimensions ar of any variations from th o drawings shall be subm ore proceeding with fabric	led dimensions. nd conditions on e dimensions and itted to IBI Group cation.
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### GENERAL NOTES: ALL WORK INVOLVED IN THE CONSTRUCTION, RELOCATION, REPAIR OF MUNICIPAL SERVICES FOR THE PROJECT 1. GENERAL SHALL BE TO THE SATISFACTION OF THE TOWN. THE APPLICANT, APPLICANT'S REPRESENTATIVE, CONSULTANT, CONTRACTOR AND SUB CONTRACTORS ARE RESPONSIBLE TO ENSURE THAT THEIR DESIGN MATERIALS AND CONSTRUCTION PRACTICES CONFORM TO THE LATEST REGION, TOWN, MINISTRY OF ENVIRONMENT, TORONTO REGIONAL CONSERVATION AUTHORITY'S DEVELOPMENT STANDARDS, POLICIES, SPECIFICATIONS, MATERIALS, DESIGN CRITERIA AND GUIDELINES AS POSTED ON THEIR RESPECTIVE WEBSITES. IN THE ABSENSE OF REGION AND OR TOWN SPECIFICATIONS, THE ONTARIO PROVINCIAL STANDARD SPECIFICATIONS (OPSS) SHALL APPLY. ALL WORKS SHALL BE COMPLETED IN ACCORDANCE WITH THE "OCCUPATIONAL HEALTH AND SAFETY ACT". THE

GENERAL CONTRACTOR SHALL BE DEEMED TO BE THE CONSTRUCTOR AS DEEMED IN THE ACT.

THE LOCATION, DIMENSION AND ELEVATION OF ALL EXISTING SERVICES AND UTILITIES ARE TO BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION, BY THE CONTRACTOR, AT THEIR EXPENSE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RESTORATION AND THE REPAIR OF EXISTING UTILITIES DISTRUBED DURING CONSTRUCTION. ALL AREA'S BEYOND THE PLAN OF SUBDIVISION THAT ARE DISTURBED DURING CONSTRUCTION 3. FINAL ROADWAYS SHALL BE RESTORED TO THE SATISFACTION OF THE REGION OF PEEL AT THE CONTRACTOR'S EXPENSE.

- ALL DIMENSIONS ARE IN METERS UNLESS SPECIFIED OTHERWISE.
- ALL BOREHOLES SHOWN ON THE DRAWING ARE FOR INFORMATION ONLY. REFER TO THE GEOTECHNICAL REPORT. ALL SUPPORT OF ALL UTILITIES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE AUTHORITY HAVING 3.3. MANHOLES TO BE ADJUSTED TO MATCH FINAL LIFT OF ASPHALT.
- JURISDICTION INCLUDING THE DECOMMISSIONING AND RECOMMISSIONING OF THE EXISTING LIGHT STANDARDS ALONG EXISTING SPEIRS GIFFEN AVENUE. ALL BACKFILL FOR SEWERS, WATERMAINS AND UTILITIES ON THE ROAD ALLOWANCE MUST BE MECHANICALLY
- COMPACTED. FIRE ROUTE SIGNS AND 3-WAY FIRE HYDRANTS SHALL BE ESTABLISHED TO THE SATISFACTION OF THE TOWN
- FIRE DEPARTMENT AND AT THE EXPENSE OF THE OWNER. ). DRIVEWAY ENTRANCES AND DROP CURBS SHALL BE IN ACCORDANCE WITH THE TOWN OF CALEDON STANDARD DRAWING 402 AND THE MOST RECENT DRAWING STANDARD DRAWINGS FOR THIS PURPOSE (SEE SHEET 19).
- . BOULEVARD DRIVEWAY SLOPES SHOULD BE A MAXIMUM OF 6.0% AND A MINIMUM OF 2.0% WHEREVER POSSIBLE.
- 12. A MINIMUM CLEAR DISTANCE OF 1.5m IS REQUIRED BETWEEN THE EDGE OF THE DRIVEWAY AND A UTILITY STRUCTURE OR HYDRANT.
- . THE APPROVAL OF THIS PLAN DOES NOT EXEMPT THE OWNER'S BONDED CONTRACTOR FROM THE REQUIREMENTS TO OBTAIN THE VARIOUS PERMITS/APPROVALS NORMALLY REQUIRED TO COMPLETE A
- CONSTRUCTION PROJECT, SUCH AS, BUT NOT LIMITED TO THE FOLLOWING:: ROAD CUT PERMITS - SEWER PERMITS APPROACH APPROVAL PERMITS - RELOCATION OF SERVICES
- COMMITTEE OF ADJUSTMENT - ENCROACHMENT AGREEMENTS (IF REQUIRED)
- 4. 3 METER BY 3 METER VISIBILITY TRIANGLES IN WHICH THE MAXIMUM HEIGHT OF ANY OBJECTS OR MATURE VEGETATION IS NOT TO EXCEED A HEIGHT OF 0.60 METERS ABOVE THE CORRESPONDING PERPENDICULAR CENTERLINE ELEVATION OF THE ADJACENT STREET.
- 5. SILTATION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO WORKS COMMENCING ON THE SITE AND SHALL BE MAINTAINED FOR THE DURATION OF CONSTRUCTION, TO THE SATISFACTION OF THE TOWN. 16. THE SUB-GRADE SOILS EXPOSED AFTER EXCAVATION SHALL BE INSPECTED AND CERTIFIED BY A QUALIFIED
- REGISTERED PROFESSIONAL SOILS ENGINEER AND A COPY OF THE REPORT SHALL BE FORWARDED TO THE TOWN OF CALEDON BUILDING DIVISION. WHERE THE FOOTING WILL BE SITUATED ON FILL MATERIAL, THE FOOTINGS SHALL BE DESIGNED AND APPROVED BY QUALIFIED REGISTERED PROFESSIONAL ENGINEER.
- 7. ALL PROPOSED SEWERS, THROUGHOUT THEIR LENGTH FROM THE MAIN SEWER TO THE BUILDING OR PLACE TO BE DRAINED IS TO BE LAID, AS NEARLY AS PRACTICAL, IN A STRAIGHT LINE IN A TRENCH AT A RIGHT ANGLE TO THE MAIN SEWER.

## REGIONAL ROAD (DIXIE ROAD):

- ALL CONSTRUCTION SIGNAGE MUST CONFORM TO MTO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. ASPHALT PRESERVATIVE SEALER SUCH AS RE-CLIMATEA OR APPROVED EQUIVALENT SHALL BE APPLIED AFTER THE ONE-YEAR MAINTENANCE PERIOD FOR THE TOP COARSE ASPHALT.
- ALL TEMPORARY SIGNAGE AND TRAFFIC CONTROL MEASURES SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF ONTARIO TRAFFIC MANUAL, BOOK 7 TEMPORARY CONDITION.
- ACCESS TO EXISTING ENTRANCES AND SIDE STREETS SHALL BE MAINTAINED.
- WORK OPERATIONS THAT REQUIRE DIVERTING TRAFFIC TO ONE LANE SUBJECT TO TIME RESTRICTIONS AND/OR NIGHT TIME OPERATIONS AS SPECIFIED IN ROAD OCCUPANCY PERMIT.
- LOCATION OF EXISTING UTILITIES TO BE ESTABLISHED BY CONTRACTOR, ALL EXISTING UTILITY ELEVATIONS (SEWERS AND WATERMAIN) INCLUDING CENTRE LINE OF THE ROAD ELEVATIONS HAVE TO BE VERIFIED BY CONTRACTOR PRIOR TO COMMENCING ANY WORK ON SITE. ANY DISCREPANCIES SHALL BE REPORTED TO THE DESIGN ENGINEER AND THE REGION IMMEDIATELY.
- THE CONTRACTOR(S) SHALL BE SOLELY RESPONSIBLE FOR LOCATING, SUPPORTING AND PROTECTING ALL UNDERGROUND AND OVERHEAD UTILITIES AND STRUCTURES EXISTING AT THE TIME OF CONSTRUCTION IN THE AREA OF HIS WORK, WHETHER SHOWN ON THE PLANS OR NOT, AND FOR ALL REPAIRS AND CONSEQUENCES RESULTING FROM DAMAGE TO SAME.
- THE CONTRACTOR(S) SHALL BE SOLELY RESPONSIBLE TO GIVE 72 HOURS WRITTEN NOTICE TO UTILITY AUTHORITY PRIOR TO CROSSING SUCH UTILITIES FOR THE PURPOSE OF INSPECTION. THIS INSPECTION WILL BE FOR THE DURATION OF CONSTRUCTION WITH THE CONTRACTOR RESPONSIBLE FOR ALL COSTS ARISING FROM SUCH INSPECTIONS.
- THE CONTRACTOR SHALL NOTIFY IN ADVANCE, AS REQUIRED, THE APPROPRIATE AUTHORITY HAVING JURISDICTION FOR THE ROAD PRIOR TO COMMENCING ANY WORK AND SHALL ACQUIRE AND SATISFY THE REQUIREMENTS OF APPROPRIATE PERMITS (FEES, INSPECTIONS, SIGNAGE, TRAFFIC, MAINTENANCE, DIVERSION, ETC.)
- ALL EXISTING PAVEMENTS, CURBS, SIDEWALKS, AND BOULEVARDS AND OTHER AREAS DISTURBED BY THE WORK. TO BE REINSTATED EQUAL OR BETTER TO EXISTING AND TO THE SATISFACTION OF APPLICABLE AUTHORITY HAVING JURISDICTION OVER THE ROAD ALLOWANCE. EXISTING PAVEMENTS AND CURBS TO BE SAW-CUT TO PROVIDE A SMOOTH JOINT.

## ROADWORKS:

- 1.1. CONSTRUCTION OF ROADWAYS & RELATED WORKS SHALL BE IN ACCORDANCE WITH TOWN OF CALEDON STANDARDS AND SPECIFICATIONS (LATEST EDITION).
- 1.2. FOLLOWING THE INSTALLATION OF SEWERS, ALL ROADWAYS SHALL BE ROUCH GRADED TO A SUBGRADE FOR THE INSTALLATION OF WATERMAINS AND UTILITIES.
- 2. CATCH BASINS
- NOTED. 2.2. SINGLE / DOUBLE STREET CATCH BASINS AS PER OPSD 705.010 / 705.020 RESPECTIVELY WITH G TRAPS. STREET CB GRATES AS PER OPSD 400.100

- 3.1. ROAD DESIGN TO ADHERE TO TOWN OF CALEDON STANDARD No: 211 (SEE DETAIL SEE DETAIL, S 16) FOR A 26.0m INDUSTRIAL COLLECTOR (14.5m ROADWAY, 13.9m PAVEMENT).
- 3.2. MANHOLES AND CATCH BASINS SHALL BE INSTALLED FLUSH WITH THE BINDER COURSE ASPHAL (HL8)
- 4.1. CONCRETE CURB AND GUTTER AS PER OPSD 600.040 (SEE SHEET 20), Min. 30 MPa STRENGTH. J mm KEY IS REQUIRED FOR ALL LOCATIONS.
- 4.2. 1.5m WIDE CONCRETE SIDEWALK AS PER OPSD 310.010 (SEE SHEET 20) (125mm THICKNESS. Min. MPa STRENGTH WITH GRANULAR 'A' BASE AS REQUIRED TO PROVIDE A LEVELING COURSE FOR CONCRETE. AT DRIVEWAYS, CONCRETE DEPTH TO BE Min. 175mm.
- 4.3. WHEELCHAIR RAMPS REQUIRED AT ALL INTERSECTIONS AS PER OPSD 310.030 (SEE SHEET 20).
- 4.4. WHEELCHAIR ACCESS SHALL BE PROVIDED AT ALL DRIVEWAY INTERSECTIONS.
- 4.5. ASPHALT RAMPING SHALL BE PLACED TO SUIT THE WHEELCHAIR RAMPS IF SURFACE COURSE ASPHALT IS NOT INSTALLED AT THE SAME TIME. THESE RAMPS ARE TO BE REMOVED JUST PRIC PLACEMENT OF SURFACE COURSE ASHPALT.

## 5. ROAD SUBDRAINS

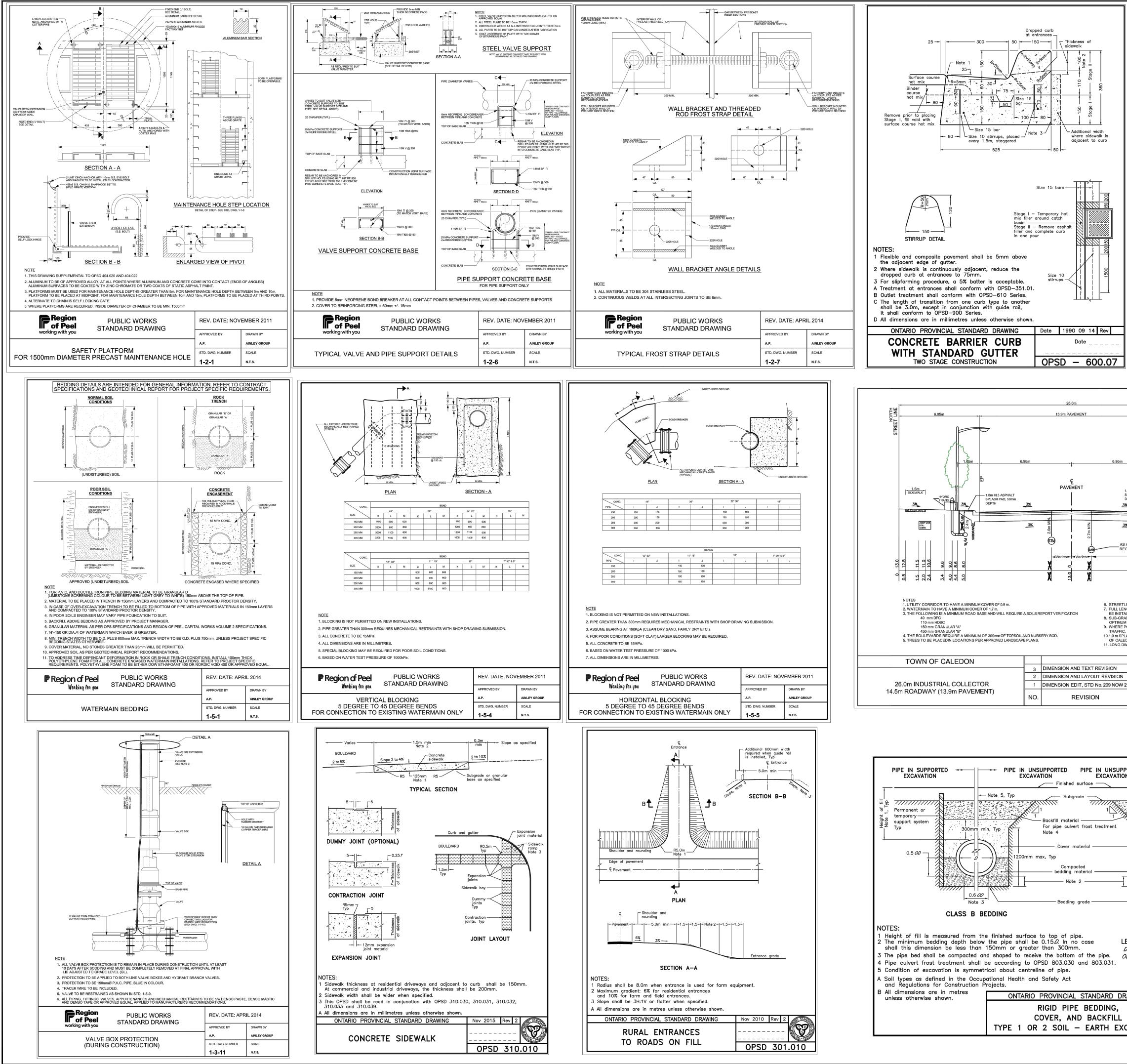
## COMPACTION REQUIREMENTS

- 1. ALL COMPACTION REQUIREMENTS TO MEET THE REQUIREMENTS AS OUTLINED IN THE GEOTECHNIC REPORT
- 2. ALL BEDDING AND BACKFILL MATERIAL, ROAD SUB-GRADES AND GENERALLY ALL MATERIALS USED LOT GRADING AND FILL SECTIONS, ETC., SHALL BE COMPACTED TO MIN. 95% SPMDD, WHILE THE UP ZONE (WITHIN 1.2m OF THE DESIGN SUBGRADE) SHOULD BE COMPACTED TO A MINIMUM OF 98% SPI
- THE PAVEMENT SUBGRADE SHOULD BE PROOF-ROLLED WITH A HEAVY RUBBER TIRE VEHICLE (SUCH A GRADER) AND ANY LOOSE, SOFT, WET OR UNSTABLE AREAS SHOULD BE SUB-EXCAVATED, AND BACKFILLED WITH CLEAN EARTH FILL MATERIAL PLACED IN 150mm LIFTS (OR LESS) AND COMPACTED A MINIMUM OF 100% SPMDD.
- 4. APSHALT MATERIALS SHALL BE ROLLED AND COMPACTED AS PER OPSS 310. 5. THE GRANULAR AND ASPHALT PAVEMENT MATERIALS AND THEIR PLACEMENT SHOULD CONFORM T
- OPSS FORMS 310, 501, 1010, AND 1150 AND THE TOWN / REGION SPECIFICATIONS.
- 6. FOR ALL SEWERS AND WATERMAINS IN FILL SECTIONS, THE COMPACTION SHALL BE CERTIFIED BY A GEOTECHNICAL ENGINEER PRIOR TO LAYING OF PIPE.
- WHERE DEWATERING MEASURES ARE TO BE IMPLEMENTED IN SECTIONS OF SEWER INSTALLATION, CLAY PLUGS SHOULD BE INSTALLED WITHIN GRANULAR BEDDING AND THE GRANULAR ZONES OF BACKFILL MATERIAL TO HELP PREVENT MIGRATION OF GROUND WATER ALONG THE RELATIVELY FRE DRAINING BEDDING MATERIAL.
- 8. CLAY PLUGS SHOULD BE PLACED IN TRENCHES AT 50m INTERVALS (OR LESS) ALONG THE FULL LEN OF THE WATER TRENCH, WHERE THE INVERT OF THE TRENCH IS BELOW THE WATER TABLE. THE PL SHOULD BE AT LEAST 1.0m THICK (MEASURED ALONG THE PIPE) AND SHOULD SHOULD COMPLETELY REPLACE THE BEDDING AND RELATIVELY PERVIOUS BACKFILL. THE CLAY PLUGS MUST BE COMPAC TO A MINIMUM OF 95% SPMDD.

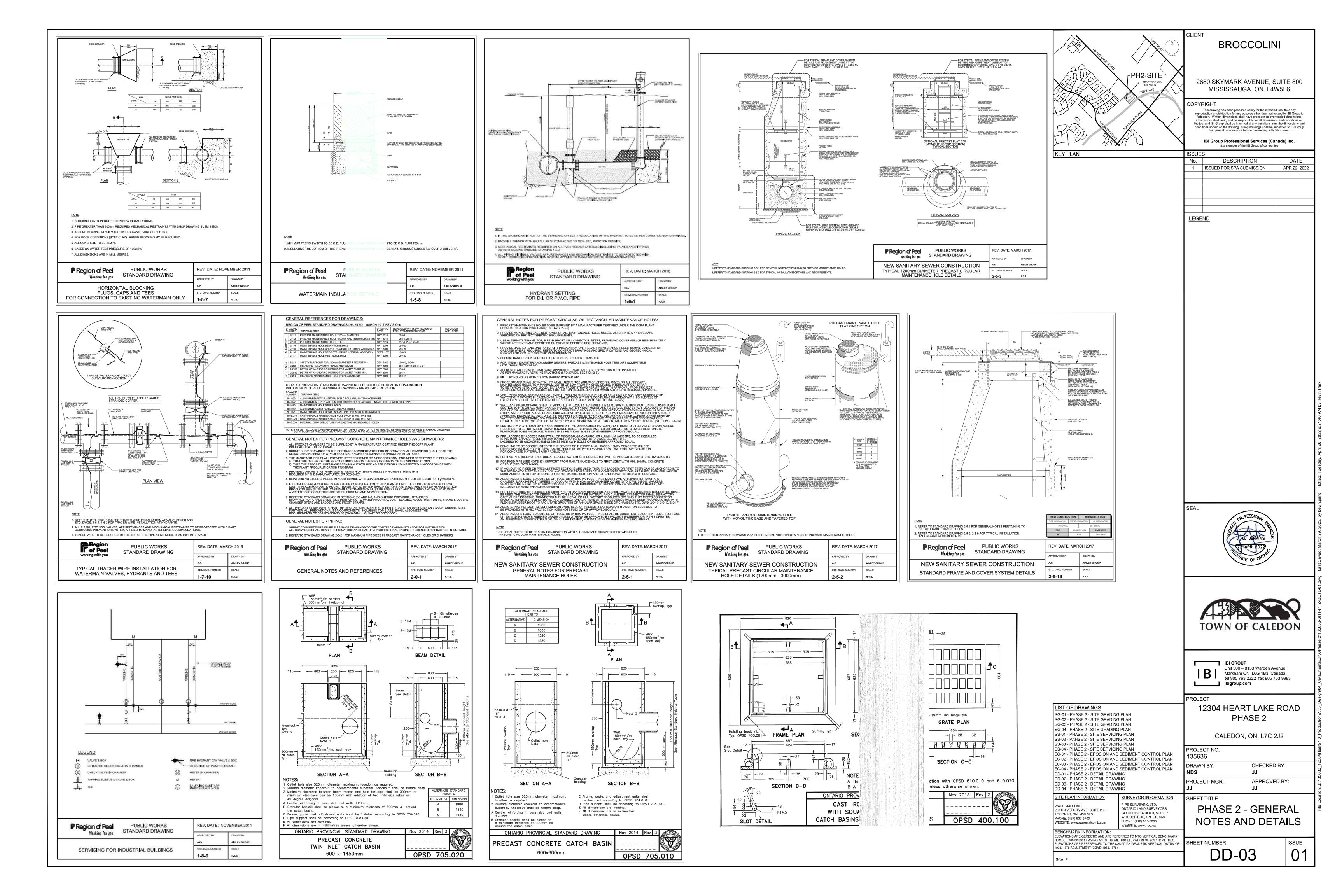
_	ROADWORKS:	WAT	TERMAINS:	7.	SADDLE. DIRECT TAPPING IS NOT ALLOWED TO PVC WATERMAINS. TRACER WIRE TO BE	<u>STO</u>	RM SEWERS:
	CONSTRUCTION OF ROADWAYS & RELATED WORKS SHALL BE IN ACCORDANCE WITH TOWN OF	1. <u>G</u>	ENERAL		INSTALLED AS PER STD. DWG. 1-7-1.	1.	GENERAL
	CALEDON STANDARDS AND SPECIFICATIONS (LATEST EDITION). 1.2. FOLLOWING THE INSTALLATION OF SEWERS, ALL ROADWAYS SHALL BE ROUCH GRADED TO A	1.1.	CONSTRUCTION OF WATERMAINS AND PRIVATE SERVICES SHALL BE IN ACCORDANCE WITH THE REGION OF PEEL PUBLIC WORKS DESIGN, SPECIFICATIONS AND PROCEDURES MANUAL (LATEST EDITION) AND MINISTRY OF ENVIRONMENT (MOE) GUIDELINES (LATEST EDITION).		HYDRANTS         1.       FIRE HYDRANTS TO BE INSTALLED AS PER REGION STD. DWG 1-6-1 (SEE SHEET 17) AND 1-6-2 WITH FLANGE SET BETWEEN 50mm AND 150mm ABOVE FINISHED GRADE.	1.1.	STORM SEWER TO BE REQUIREMENTS AND
	SUBGRADE FOR THE INSTALLATION OF WATERMAINS AND UTILITIES. 2. <u>CATCH BASINS</u>	1.2.	TWU STRANDED COPPER, LIGHT COLOURED PLASTIC COATED TRACER WIRE MUST BE INSTALLED WITH AND ALONG THE PIPE AND BROUGHT TO THE SURFACE AT EACH VALVE	8.	<ol> <li>ALL HYDRANTS SHALL HAVE 150mm BRANCH VALVES AND BOXES. HYDRANT BRANCH TEES FROM BE AS PER STD. DWG. 1-6-1 (SEE SHEET 17) AND 1-6-2.</li> </ol>	1.2. 1.3.	STORM SEWERS SHA RADIUS PIPE SHALL E LARGER PROVIDED T
	2.1. CATCH BASIN CONNECTIONS TO BE 250mm DIA. PVC PIPE, CSA 182.2, SDR-35 UNLESS OTHERWISE NOTED.	1.3.	BOX/CHAMBER AND HYDRANT (AROUND PORT). TRACER WIRE IS TO BE ATTACHED TO THE PIPE AND OUTSIDE OF EACH VALVE BOX BY MEANS OF TAPE. ALL FITTINGS SHALL BE RESTRAINED WHERE REQUIRED BY THE DESIGN OR BY THE REGION.	8.	3. ALL HYDRANTS SHALL HAVE MINIMUM 1.2m MINIMUM HORIZONTAL CLEARANCE FROM ALL UTILITIES AND STRUCTURES MEASURED FROM THE NEAREST POINT OF THE STRUCTURE. HYDRANTS NEAR DRIVEWAYS SHALL BE LOCATED A MINIMUM OF 1.25m CLEAR FROM THE	1.4.	END OF THE RADIAL S
ı	<ul> <li>2.2. SINGLE / DOUBLE STREET CATCH BASINS AS PER OPSD 705.010 / 705.020 RESPECTIVELY WITH GOSS TRAPS. STREET CB GRATES AS PER OPSD 400.100</li> <li>3. FINAL ROADWAYS</li> </ul>	1.4.		8.	<ul> <li>PROJECTED GARAGE OR EDGE OF DRIVEWAY, WHICHEVER IS GREATER.</li> <li>4. THE HYDRANT SAFETY BREAKAWAY FLANGE MUST BE LOCATED 50mm TO 150mm ABOVE THE FINISHED GRADE AND FIELD ADJUSTED IF REQUIRED.</li> </ul>	1.5.	DOWNSTREAM WILL E DEFORMATION GAUG MAINTENANCE AND A
•	<ul> <li>ROAD DESIGN TO ADHERE TO TOWN OF CALEDON STANDARD No: 211 (SEE DETAIL SEE DETAIL, SHE</li> <li>16) FOR A 26.0m INDUSTRIAL COLLECTOR (14.5m ROADWAY, 13.9m PAVEMENT).</li> </ul>	ET 1.5.	CATHODIC PROTECTION IS REQUIRED ON ALL METALLIC FITTINGS, VALVES AND JOINT RESTRAINTS MUST BE WRAPPED END TO END WITH AN APPROVED CORROSION PROTECTION SYSTEM THAT INCLUDES PETROLATUM PRIMER (PASTE), PETROLATUM MOULDING, AND LOW	4	THRUST BLOCKS		COMPLETE AS PART ( SEWERS WILL BE FLU
	3.2. MANHOLES AND CATCH BASINS SHALL BE INSTALLED FLUSH WITH THE BINDER COURSE ASPHALT (HL8).	1.6.	TEMPERATURE PETROLATUM TAPE. ALL SYSTEM COMPONENTS ARE TO BE EITHER TO THE REGION OF PEEL STANDARDS OR	10	<ol> <li>THRUST BLOCKING OF WATERMAIN TO BE INSTALLED AS PER STD. 1-5-4 (SEE SHEET 16), 1-5-5 (SEE SHEET 16), AND 1-5-7 (SEE SHEET 17).</li> <li>AIR VALVES AND DRAIN VALVES</li> </ol>	1.6.	MAINTENANCE HOLE TO BASE COURSE AS ASPHALT IS PLACED.
G	<ul><li>3.3. MANHOLES TO BE ADJUSTED TO MATCH FINAL LIFT OF ASPHALT.</li><li>4. <u>SIDEWALKS</u></li></ul>	1.7.	ONTARIO PROVINCIAL STANDARD DRAWING (OPSD). WHERE A REGION STANDARD EXISTS, IT SHALL BE USED IN PLACE OF THE OPSD STANDARD. ALL LIVE TAPPING AND OPERATION OF EXISTING REGIONAL WATER VALVES SHALL BE		0.1. FOR WATERMAINS 400mm DIAMETER AND LARGER, PROVISION FOR AIR RELEASE AND DRAINAGE IS REQUIRED AT THE HIGH AND LOW POINTS RESPECTIVELY. THIS PROVISION	1.7. 1.8.	ALL CONNECTIONS TO OR APPROVED FACTO
	4.1. CONCRETE CURB AND GUTTER AS PER OPSD 600.040 (SEE SHEET 20), Min. 30 MPa STRENGTH. A 50 mm KEY IS REQUIRED FOR ALL LOCATIONS.	1.0	ARRANGED THROUGH THE REGIONAL INSPECTOR ASSIGNED OR BY CONTACTING THE WATER DIVISION.	11.	MAY BE INCORPORATED WITH THE LINE VALVE CHAMBER OR IN SEPERATE CHAMBERS. REFER TO STD. DWG 1-3-5 (AIR VALVE) BEDDING	1.0.	ALL PIPE HANDLING II MANUFACTURERS IN THE MAXIMUM ALLOW
	4.2. 1.5m WIDE CONCRETE SIDEWALK AS PER OPSD 310.010 (SEE SHEET 20) (125mm THICKNESS, Min. 30 MPa STRENGTH WITH GRANULAR 'A' BASE AS REQUIRED TO PROVIDE A LEVELING COURSE FOR THE CONCRETE. AT DRIVEWAYS, CONCRETE DEPTH TO BE Min. 175mm.	1.8.	THE NEW WATERMAIN MUST BE ISOLATED FROM THE EXISTING WATERMAIN TO MAINTAIN PRESSURE IN THE NEW MAIN DURING INSTALLATION OF SERVICES. PROPER SIZE BY-PASS WITH THE APPROVED DIFFERENTIAL BACKFLOW PREVENTER TO BE INSTALLED AROUND THE CLOSED OPERATING VALVE.	11	<ul> <li>.1. BEDDING FOR WATERMAINS SHALL BE PER REGION STD. DWG. 1-5-1 (SEE SHEET 16) AND 1-5-2.</li> </ul>	1.10.	BE 4.0m/sec AND THE STORM SEWERS TO H STANDARD DRAWING
	<ul><li>4.3. WHEELCHAIR RAMPS REQUIRED AT ALL INTERSECTIONS AS PER OPSD 310.030 (SEE SHEET 20).</li><li>4.4. WHEELCHAIR ACCESS SHALL BE PROVIDED AT ALL DRIVEWAY INTERSECTIONS.</li></ul>	1.9.	ANY JOINT DEFLECTION SHALL BE 50% OF MANUFACTURER'S SPECIFICATIONS. PIPER BARREL DEFLECTION IS PROHIBITED WHEN USING PVC PIPE.		TARY SEWERS:	2.	STANDARD DRAWING
	4.5. ASPHALT RAMPING SHALL BE PLACED TO SUIT THE WHEELCHAIR RAMPS IF SURFACE COURSE		DCATIONS	<u>-</u> 1.1.	ALL SYSTEM COMPONENTS ARE TO BE EITHER TO THE REGION OF PEEL STANDARDS OR	2.1.	
	ASPHALT IS NOT INSTALLED AT THE SAME TIME. THESE RAMPS ARE TO BE REMOVED JUST PRIOR T PLACEMENT OF SURFACE COURSE ASHPALT. 5. ROAD SUBDRAINS	0 2.1.	MINIMUM HORIZONTAL SEPARATION BETWEEN SEWERS AND WATERMAINS SHALL BE IN ACCORDANCE WITH TOWN OF CALEDON STANDARD No. 211 (SEE DETAIL, SHEET 16) AND HAVE A MINIMUM HORIZONTAL SEPERATION OF 2.5m, AS PER THE REGION OF PEEL.		ONTARIO PROVINCIAL STANDARD DRAWING (OPSD). WHERE A REGION STANDARD EXISTS, IT SHALL BE USED IN PLACE OF THE OPSD STANDARD.	2.2.	C.S.A. STANDARD A 2 THE STORM SEWERS STANDARD INDUSTRI
	<ul> <li>5.1. 100mm FILTER WRAPPED CORRUGATED SLOTTED P.E. PLASTIC PIPE SUBDRAINS TO BE INSTALLED CONTINUOUSLY BELOW THE CURB AND GUTTER AND CONNECTED TO THE CB'S. AS PER TOWN OF CALEDON STANDARD NO. STANDARD NUMERIA (10)</li> </ul>		VERTICAL CLEARANCE BETWEEN SEWERS AND WATERMAINS THAT CROSS TO BE 500mm BETWEEN THE OUTSIDE OF THE WATERMAIN AND OUTSIDE OF THE SEWER AS PER MOE DESIGN CRITERIA.	1.2. 1.3.	SANITARY SEWERS IN FILL SECTIONS, THE COMPACTION SHALL BE CERTIFIED BY A GEOTECHNICAL ENGINEER PRIOR TO LAYING OF PIPE. PROPOSED SANITARY MAINLINE SEWER'S SHALL BE REINFORCED CONCRETE, CSA 257.2,		DETAIL, SHEET 16). T THE CENTER LINE OF
	CALEDON STANDARD №. 219 (SEE STANDARD SHEET 19).	2.2.	THE MINIMUM LATERAL DISTANCE BETWEEN WATER SERVICES AND OTHER UTILITIES SHALL BE 1.2m.	1.4.	140-D. FLOW VELOCITIES SHALL BE DETERMINED IN ACCORDANCE WITH GUIDELINES OUTLINED IN	3. 3.1.	<u>DEPTH</u> MINIMUM HORIZONTA BE 2.5m. VERTICAL C
	COMPACTION REQUIREMENTS	3. <u>D</u>	ALL WATER SERVICES TO BE INSTALLED WITH A MINIMUM OF 2.4m COVER.	1.5.	THE REGION OF PEEL PUBLIC WORKS DESIGN CRITERIA MANUAL. DEFORMATION GAUGE TEST (PIG) IS REQUIRED ON ALL PIPE WORKS PRIOR TO MAINTENANCE		CROSS TO BE 500mm OF THE SEWER. THE
	<ol> <li>ALL COMPACTION REQUIREMENTS TO MEET THE REQUIREMENTS AS OUTLINED IN THE GEOTECHNICAL REPORT.</li> <li>ALL BEDDING AND BACKFILL MATERIAL, ROAD SUB-GRADES AND GENERALLY ALL MATERIALS USED FOR</li> </ol>	3.2.	REFER TO STD DWG 1-5-8 FOR INSULATION REQUIREMENTS.		AND ACCEPTANCE. ALL PIPE WORKS SHALL HAVE A VIDEO TAPING COMPLETE AS PART OF THE PRELIMINARY AND ASSUMPTION INSPECTIONS.		POINT OF CROSSING AND AS FAR AS POSS POSSIBLE.
	LOT GRADING AND FILL SECTIONS, ETC., SHALL BE COMPACTED TO MIN. 95% SPMDD, WHILE THE UPPER ZONE (WITHIN 1.2m OF THE DESIGN SUBGRADE) SHOULD BE COMPACTED TO A MINIMUM OF 98% SPMDD	1 0	ROSSINGS	2. <u>N</u>	IAINTENANCE HOLES	4.	PIPE CLASSIFICATION, BE
	3. THE PAVEMENT SUBGRADE SHOULD BE PROOF-ROLLED WITH A HEAVY RUBBER TIRE VEHICLE (SUCH AS A GRADER) AND ANY LOOSE, SOFT, WET OR UNSTABLE AREAS SHOULD BE SUB-EXCAVATED, AND	4.1.	WHERE WATERMAINS CROSS UNDER A CREEK, THE MINIMUM COVER OVER THE WATERMAIN BELOW THE CREEK BOTTOM SHALL BE AS PER MUNICIPAL CLASS ENVIRONMENTAL		FRAME AND COVERS SHALL BE AS PER REGION STD. DWG. 2-5-13 (SEE SHEET 17).	4.1.	ALL STORM SEWER P CANADIAN STANDARI
)	BACKFILLED WITH CLEAN EARTH FILL MATERIAL PLACED IN 150mm LIFTS (OR LESS) AND COMPACTED TO A MINIMUM OF 100% SPMDD. 4. APSHALT MATERIALS SHALL BE ROLLED AND COMPACTED AS PER OPSS 310.	)	ASSESSMENT AND CONSERVATION AUTHORITIES REQUIREMENTS. GENERALLY, WHERE WATERMAINS CROSS OVER UTILITIES, A 0.3m MINIMUM CLEARANCE SHALL BE PROVIDED. WHERE WATERMAINS CROSS UNDER UTILITIES, THE MINIMUM CLEARANCE SHALL BE 0.5m.	2.2.	DROP MAINTENANCE HOLES SHALL BE PROVIDED WHERE THE DIFFERENCE IN INVERT ELEVATION IS GREATER THAN 0.90m. THE DROP PIPE SHALL BE ONE SIZE SMALLER THEN THE SEWER LINE (MINIMUM 250mm). (SEE STANDARD 2-5-26, SHEET 18).	4.2.	GRANULAR BEDDING DRAINING SOIL, SUCH OR ITS EQUIVALENT A
	<ol> <li>APSHALT MATERIALS SHALL BE ROLLED AND COMPACTED AS PER OPSS 510.</li> <li>THE GRANULAR AND ASPHALT PAVEMENT MATERIALS AND THEIR PLACEMENT SHOULD CONFORM TO OPSS FORMS 310, 501, 1010, AND 1150 AND THE TOWN / REGION SPECIFICATIONS.</li> </ol>	4.2.	FOR A WATERMAIN CROSSING A SANITARY SEWER, WATERMAIN JOINTS ARE TO BE OFFSET A MINIMUM OF 2.5m HORIZONTALLY FROM THE CENTERLINE OF THE SANITARY SEWER.	2.3.	ALL MAINTENANCE HOLES SHALL CONFORM TO THE CURRENT MANUFACTURER'S APPROVED PRODUCTS LIST, SANITARY SEWER AND APPERTENANCES, REGION OF PEEL STANDARD DRAWING 2-5-3, 2-5-4 (REFER TO STANDARDS ON SHEET 17).	4.2.	
	<ol> <li>FOR ALL SEWERS AND WATERMAINS IN FILL SECTIONS, THE COMPACTION SHALL BE CERTIFIED BY A GEOTECHNICAL ENGINEER PRIOR TO LAYING OF PIPE.</li> </ol>	5. <u>0</u> 5.1.	"NO WATERMAIN SHALL BE LAID ON FILL UNTIL DENSITY TEST REPORTS HAVE BEEN SUBMITTED TO AND APPROVED BY THE CONSULTANT OR REGION. FILL SHALL BE PLACED	2.3.	WHERE DEPTH FROM INVERT TO TOP OF A MAINTENANCE HOLE EXCEEDS 5.0m, A SAFETY PLATFORM IS TO BE PROVIDED AS PER PEEL REGIONAL STANDARD 2-6-13 TO 2-6-15 (SEE STANDARD ON SHEET 18).	4.3.	FOR ALL SEWERS ANI BE CERTIFIED BY A G
	7. WHERE DEWATERING MEASURES ARE TO BE IMPLEMENTED IN SECTIONS OF SEWER INSTALLATION, CLAY PLUGS SHOULD BE INSTALLED WITHIN GRANULAR BEDDING AND THE GRANULAR ZONES OF BACKFILL MATERIAL TO HELP PREVENT MIGRATION OF GROUND WATER ALONG THE RELATIVELY FREE DRAINING BEDDING MATERIAL.		TO 0.6m MINIMUM ABOVE THE TOP OF WATERMAIN GRADES AND COMPACTED TO THE MINIMUM OF 100% STANDARD PROCTOR MAXIMUM DRY DENSITY (SPMDD) IN 0.3m LIFTS. TESTS SHALL BE TAKEN ALONG THE CENTERLINE OF THE PROPOSED WATERMAIN. ALL FITTINGS AND BRANCH VALVES IN FILL AREAS SHALL BE TIED WITH TIE RODS IN ADDITION TO	2.4.	MAXIMUM SPACING OF MAINTENANCE HOLES SHALL BE 120m FOR SANITARY SEWERS UP TO 600mm IN SIZE. FOR SANITARY SEWERS GREATER THAN 600mm IN SIZE, THE MAXIMUM SPACING SHALL BE 170m.	4.4.	STORM SEWERS SHA FOR RIGID PIPE OR O APPROVED OTHERWI
	<ol> <li>CLAY PLUGS SHOULD BE PLACED IN TRENCHES AT 50m INTERVALS (OR LESS) ALONG THE FULL LENGTH OF THE WATER TRENCH, WHERE THE INVERT OF THE TRENCH IS BELOW THE WATER TABLE. THE PLUG</li> </ol>		CONCRETE BLOCKING ACCORDING TO THE FOLLOWING:	3. <u>s</u>	SIZING	4.5.	PIPE MATERIAL TO BE STANDARD A247.2-198 AND 182.4 MAX.
	SHOULD BE AT LEAST 1.0m THICK (MEASURED ALONG THE PIPE) AND SHOULD SHOULD COMPLETELY REPLACE THE BEDDING AND RELATIVELY PERVIOUS BACKFILL. THE CLAY PLUGS MUST BE COMPACTED TO A MINIMUM OF 95% SPMDD.	)	CONCRETE THRUST BLOCKS SHALL BE INSTALLED AT ALL TEES, HORIZONTAL BENDS,	3.3. 3.4.	MAINLINE SANITARY SEWER PIPE SIZE SHALL BE MINIMUM 375mm DIAMETER. MINIMUM HORIZONTAL SEPARATION BETWEEN SANITARY SEWERS AND STORM SEWERS	4.6.	ALL PIPE BEDDING MI 807.010. NO FLEXIBLE
			HYDRANTS END OF MAINS AND CONNECTIONS 100mm TO 300mm DIAMETER AS PER REGIONAL STANDARDS. ALL 400mm DIAMETER WATERMAINS AND LARGER SHALL HAVE RESTAINED JOINTS. CALCULATIONS WILL BE REQUIRED FROM THE CONSULTANT TO DETERMINE THE M NUMBER OF JOINTS TO BE RESTRAINED BEYOND THE BEND.		SHALL BE 2.0m IF BOTH SEWERS ARE AT THE SAME RELATIVE ELEVATION. IF THE SEWER INVERTS VARY MORE THAN 1.0m, A MINIMUM HORIZONTAL SEPARATION OF 3.0m SHALL BE MAINTAINED.	4.7.	GREATER THAN 6m U SEWER BEDDING, CO 802.010 WITH GRANUI
			ALL THRUST BLOCK LOCATIONS, WHERE COMPACTED FILL RATHER THAN UNDISTURBED GROUND EXISTS BEHIND THE THRUST BLOCK, THE FOLLOWING ADDITIONAL PROCEDURE SHALL BE FOLLOWED:	3.5.	MINIMUM HORIZONTAL SEPARATION BETWEEN SEWERS AND WATERMAINS SHALL BE 2.5m. VERTICAL CLEARANCE BETWEEN SEWERS AND WATERMAINS THAT CROSS TO BE 500mm BETWEEN THE OUTSIDE OF THE WATERMAIN AND OUTSIDE OF THE SEWER. THE LENGTH OF WATER PIPE SHOULD BE CENTERED AT THE POINT OF CROSSING SUCH THAT JOINTS IN THE		HOWEVER SHOULD B AND BACKFILL SPECI MATERIAL AND EXCA
			ALL SEGMENTS OF THE FITTING AND THE WATERMAIN AT THE THRUST BLOCK LOCATION SHALL BE TIED USING APPROVED RESTRAINING DEVIES INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS (TIE RODS AND CLAMPS SHALL BE PROTECTED USING	ì	WATERMAIN WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE SEWER, CROSSING PERPENDICULAR IF POSSIBLE.	5.	MAINTENANCE HOLES
			CATHODIC PROTECTION AND CORROSION PREVENTION TAPE). IMPORTED GRANULAR FILL (OPS GRANULAR "B" OR EQUIVALENT) IS TO BE USED BEHIND THE	4. <u>C</u>	DEPTH THE OBVERT OF THE SANITARY SEWER SHALL BE A MINIMUM OF 2.5m BELOW THE CENTRELINE OF ROAD.	5.1.	MANHOLES MAY BE E DESIGNED AND CONS ONTARIO PROVINCIAI
			THRUST BLOCK AND FOR A MINIMUM DISTANCE OF 2m EACH SIDE OF THE THRUST BLOCK. THIS IMPORTED GRANULAR FILL SHALL BE COMPACTED TO A MINIMUM OS 100% STANDARD PROCTOR DENSITY. PRIOR TO CONSTURCTING THE THRUST BLOCKS, THE CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FOR BACKFILL FROM A LICENSDED GEOTECHNICAL	4.2.	IN ALL CASES, THE PROPOSED SANITARY SEWER SHALL BE INSTALLED AT SUFFICIENT DEPTH TO SERVICE LANDS EXTERNAL TO THE SITE AS DETERMINED BY THE REGION OF PEEL.	5.2.	MANHOLES SHALL BE MATERIAL, AT ALL PIP SELECTIONS AND AT
		6. <u>LI</u>	ENGINEER." <u>NE VALVES</u>	5. <u>C</u>	REEK CROSSINGS	5.3.	MAINTENANCE TO TH MAXIMUM SPACING O IN DIAMETER AND 150
		6.1.	ALL VALVE BOXES TO BE SET TO SURFACE GRADE.	5.1.	IN VALLEYS , THE SANITARY SEWER SHALL BE A MINIMUM 1.4m BELOW THE CREEK BOTTOM.	5.4.	MAINTENANCE HOLES 701.010 AND OPSD 70
		6.2.	CORROSION PROTECTION TAPE AND ZINC ANODE CAPS SHALL BE APPLIED TO ALL VALVES LOCATED WITHIN CHAMBERS. ALL VALVES 300mm AND SMALLER SHALL BE EQUIPPED WITH VALVE BOXES AND	5.2.	A PERMIT FROM THE TORONTO REGIONAL CONSERVATION AUTHORITY IS REQUIRED FOR A CREEK CROSSING.	5.5.	MANHOLE CHAMBER
		0.0.	RESTRAINED.	6. <u>s</u>	SPECIAL DESIGN CONSIDERATIONS SPECIAL CONSIDERATIONS FOR WATER TIGHT JOINTS IS TO BE APPLIED WHEN PIPE IS	5.6.	UPSTREAM SIDE OF T
		6.4.	A 12-GAUGE TWU STRANDED COPPER, LIGHT COLOURED PLASTIC COATED TRACER WIRE MUST BE INSTALLED WITH AND ALONG THE PIPE AND BROUGHT TO THE SURFACE AT EACH VALVE BOX/CHAMBER. TRACER WIRE IS TO BE ATTACHED TO THE PIPE OUTSIDE OF EACH VALVE BOX BY MEANS OF TAPE.	6.2.	BURIED TO A DEPTH WHERE SIGNIFICANT HYDROSTATIC PRESSURES ARE ANTICIPATED. WHERE SIGNIFICANT SECTIONS OF SANITARY SEWERS ARE PROVIDED WITH WATERTIGHT	5.7.	90 DEGREES PERPEN SAFETY GRATINGS SI THE MANHOLE EXCEE
		6.5.	TRACER WIRE IS TO BE LOOPED THROUGH A HOLE IN THE SIDE OF THE VALVE BOX AS PER STD DWG 1-3-11 (SEE DETAIL SHEET 20).		COVERS, EXTENDED VENTS WILL BE REQUIRED AT EVERY THIRD MAINTENANCE HOLE AS PER PEEL REGIONAL STANDARD DRAWING 2-5-22, SEE STANDARD, SHEET 18).	5.8.	GRATINGS SHALL NO
		6.6.	ALL VALVE BOXES AND HYDRANTS ARE TO BE PROTECTED DURING CONSTRUCTION.	7. <u>E</u> 7.1.	BEDDING AND COMPACTION ALL SANITARY SEWER BEDDING AS PER REGION STD. DWG. 2-3-1 (REFER TO STANDARD ON	5.9.	THAN THE OBVERT O
		6.7.	SUSCEPTIBLE TO FLOODING OR VANDALISM.	7.1.	GRANULAR BEDDING MATERIAL SHOULD CONSIST OF WELL GRADED, FREE DRAINING SOIL,		OUTLET PIPES EXCEE SHALL BE PLACED ON
			BE ABOVE REGIONAL FLOOD LINES AS DETERMINED BY THE APPROPRIATE CONSERVATION AUTHORITY.		SUCH AS OPSS GRANULAR 'A' OR 19mm CRUSHER RUN LIMESTONE OR ITS EQUIVALENT AS PER THE PERTINENT TOWN / REGION SPECIFICATIONS.	5.10.	PIPE ON THE VERTICA
			ERVICES WATERMAIN SERVICES ARE TO BE INSTALLED PERPENDICULAR TO THE PROPOSED	7.3.	THE BEDDING MATERIALS SHOULD BE PLACED IN 150mm LIFTS AND COMPACTED TO A MINIMUM OF 100% SPMDD, SEE REGION OF PEEL STANDARD 2-3-1 (REFER TO STANDARD ON SHEET 18).	5.11.	FROM THE FACE OF T
			WATERMAIN AND STRAIGHT INTO THE BUILDING.	8	ANITARY SERVICES	5.12.	CHANGE IN DII 0°
		1.2.	ALL SERVICES SHALL HAVE CURB STOPS AND BOXES INSTALLED AT THE STREET LINE, BE FLUSH WITH GRADE AND ACCESSIBLE AT ALL TIMES. REDUCING CURB STOPS SHALL NOT BE USED.	8.1.	IN INDUSTRIAL AREAS, THE MINIMUM SIZE OF SANITARY LATERALS SHALL BE 150mm, INSTALLED WITH A MINIMUM GRADE OF 1% AND A MAXIMUM GRADE OF 2%.		1° TO 45° TO
		7.3.	ALL WATER SERVICES SHALL HAVE THE SAME SIZE MAINSTOP AS THE SERVICE PIPE. MAINSTOPS ARE NOT REQUIRED ON WATER SERVICES OFF 50mm DIAMETER COPPER WATERMAINS.	8.2.	THE MINIMUM AND MAXIMUM COVER OF SANITARY LATERALS SHALL BE 2.00m AND 2.75m RESPECTIVELY, UNLESS CIRCUMSTANCES REQUIRE OTHERWISE.	6. 6.1.	<u>CATCH BASINS</u> CATCH BASINS MAY E
		7.4.		8.3. 8.4.	THE MAXIMUM DROP ACROSS A PROPERTY LINE SHALL BE 0.03m. A MAINTENANCE HOLE IS REQUIRED IF THE LATERAL DIAMETER IS EQUAL TO OR GREATER		AND CONSTRUCTED REQUIREMENTS.
		1.5.	50mm DIAMETER BLOW-OFFS ARE TO BE INSTALLED AT THE STREET LINE FOR ALL DEAD-ENDED LONG (GREATER THAN 10m) INDUSTRIAL WATER SERVICES, UNLESS OTHER METHODS ARE AVAILABLE FOR BLEEDING OFF, CHARGING AND FLUSHING OF THE SERVICE		THAN HALF THE DIAMETER OF THE MAIN SEWER LINE. EXCEPT FOR A 150mm DIAMETER PIPE CONNECTING TO A 250mm DIAMETER MAINLINE OR A 200mm DIAMETER PIPE CONNECTING TO	6.2.	ROADWAY CATCH BA 400.010. CATCH BASI

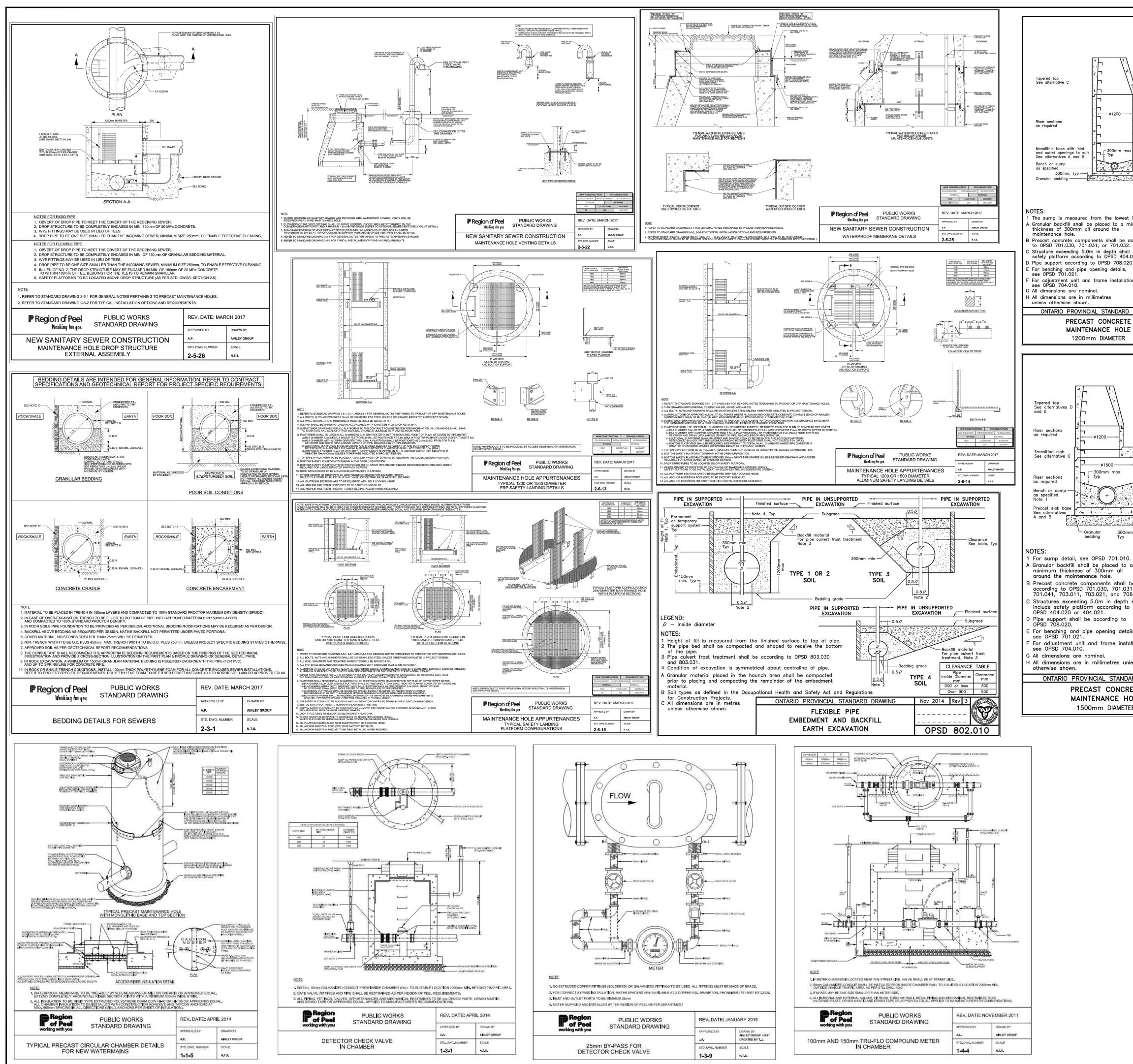
- DEAD-ENDED LONG (GREATER THAN 10m) INDUSTRIAL WATER SERVICES, UNLESS OTHER METHODS ARE AVAILABLE FOR BLEEDING OFF, CHARGING AND FLUSHING OF THE SERVICE
- FHAN HALF THE DIAMETER OF THE MAIN SEWER LINE. EXCEPT FOR A 150mm DIAMETER PIPE CONNECTING TO A 250mm DIAMETER MAINLINE OR A 200mm DIAMETER PIPE CONNECTING TO A 375mm MAINLINE.

STORM SEWERS:			BROCCOLINI
1.1.       STORM SEWER TO BE CONSTRUCTED IN ACCORDANCE WITH THE MOST REC         REQUIREMENTS AND SPECIFICATIONS OF THE TOWN OF CALEDON.			
<ol> <li>STORM SEWERS SHALL BE PROVIDED ON ALL ROADS WITH CURB AND GUTTE</li> <li>RADIUS PIPE SHALL BE ALLOWED FOR STORM SEWERS 975mm IN DIAMTER SEWERS 975mm IN DIAMTER SEWERS 975mm IN DIAMTER ALLOWED FOR STORM SEWERS 975mm IN DIAMTER ALLOWED FOR STORM SEWERS 975mm IN DIAMTER SEWERS 975mm IN DIAMTER ALLOWED 975mm IN DIAMTER 9757mm IN DIAMTER 97</li></ol>		PH2-SITE	2680 SKYMARK AVENUE, SUITE 800
<ul><li>LARGER PROVIDED THAT A MANHOLE IS LOCATED AT THE BEGINNING OR AT END OF THE RADIAL SECTION.</li><li>1.4. NO DECREASE OF PIPE SIZE FROM A LARGER UPSTREAM TO A SMALLER</li></ul>		HWY.410	MISSISSAUGA, ON. L4W5L6
<ul> <li>DOWNSTREAM WILL BE ALLOWED REGARDLESS OF THE INCREASE IN GRADE</li> <li>1.5. DEFORMATION GAUGE TEST (PIG) IS REQUIRED ON ALL PIPE WORKS PRIOR T MAINTENANCE AND ACCEPTANCE. ALL PIPE WORKS SHALL HAVE A VIDEO TA</li> </ul>	TO A THE	No the second	COPYRIGHT This drawing has been prepared solely for the intended use, thus any reproduction or distribution for any purpose other than authorized by IBI Group is forbidden. Written dimensions shall have precedence over scaled dimensions. Contractors field work up to prepare the for all dimensions and conditions on
<ul> <li>COMPLETE AS PART OF THE PRELIMINARY AND ASSUMPTION INSPECTIONS. SEWERS WILL BE FLUSHED PRIOR TO VIDEO INSPECTION.</li> <li>1.6. MAINTENANCE HOLE TOPS (FRAMES) AND CATCHBASIN (FRAMES) ARE TO BE</li> </ul>	ALL		Contractors shall verify and be responsible for all dimensions and conditions on the job, and IBI Group shall be informed of any variations from the dimensions and conditions shown on the drawing. Shop drawings shall be submitted to IBI Group for general conformance before proceeding with fabrication.
TO BASE COURSE ASPHALT AND THEN ADJUSTED FINAL GRADE WHEN THE T ASPHALT IS PLACED.	OP OF	AU X	IBI Group Professional Services (Canada) Inc. is a member of the IBI Group of companies
<ol> <li>ALL CONNECTIONS TO THE STORM MAIN SHALL BE MADE WITH A STORM MAN OR APPROVED FACTORY TEE CONNECTION AS PER OPSD 708.01 OR 708.03.</li> <li>ALL PIPE HANDLING INSTRUCTIONS MUST BE IN STRICT COMPLIANCE WITH</li> </ol>	NHOLE KEY PLAN		ISSUES No. DESCRIPTION DATE 1 ISSUED FOR SPA SUBMISSION APR 22, 2022
<ul> <li>MANUFACTURERS INSTALLATION GUIDES.</li> <li>1.9. THE MAXIMUM ALLOWABLE FLOW VELOCITY FOR CIRCULAR STORM SEWERS BE 4.0m/sec AND THE MINIMUM ALLOWABLE VELOCITY SHALL BE 0.75m/Sec.</li> </ul>	SHALL		
1.10. STORM SEWERS TO HAVE A MINIMUM COVER OF 2.0m AS PER TOWN OF CALE STANDARD DRAWING No: 211.	EDON		
<ol> <li><u>SIZING</u></li> <li>STORM SEWERS TO BE MINIMUM 300mm DIAMETER WITH JOINTS CONFORMIN</li> </ol>	NG TO		LEGEND
<ul><li>C.S.A. STANDARD A 257.3.</li><li>2.2. THE STORM SEWERS SHALL BE LOCATED AS SHOWN ON THE TOWN OF CALE</li></ul>	DON		
STANDARD INDUSTRIAL ROAD CROSS SECTION NO 211 (SEE STANDARD ON S DETAIL, SHEET 16). THE STANDARD LOCATION IS GENERALLY 1.5m METERS F THE CENTER LINE OF ROAD.			
<ol> <li><u>DEPTH</u></li> <li>3.1. MINIMUM HORIZONTAL SEPARATION BETWEEN SEWERS AND WATERMAINS S BE 2.5m. VERTICAL CLEARANCE BETWEEN SEWERS AND WATERMAINS THAT</li> </ol>			
CROSS TO BE 500mm BETWEEN THE OUTSIDE OF THE WATERMAIN AND OUTS OF THE SEWER. THE LENGTH OF WATER PIPE SHOULD BE CENTERED AT THE POINT OF CROSSING SUCH THAT JOINTS IN THE WATERMAIN WILL BE EQUIDI: AND AS FAR AS POSSIBLE FROM THE SEWER, CROSSING PERPENDICULAR IF	E STANT		
POSSIBLE.			
<ol> <li><u>PIPE CLASSIFICATION, BEDDING AND COMPACTION</u></li> <li>ALL STORM SEWER PIPES SHALL CONFORM TO THE REQUIREMENTS OF THE CANADIAN STANDARDS ASSOCIATIOIN (CSA).</li> </ol>			
4.2. GRANULAR BEDDING MATERIAL SHOULD CONSIST OF WELL GRADED, FREE DRAINING SOIL, SUCH AS OPSS GRANULAR 'A' OR 19mm CRUSHER RUN LIMES OR ITS EQUIVALENT AS PER THE PERTINENT TOWN / REGION SPECIFICATION			
4.2. THE BEDDING MATERIALS SHOULD BE PLACED IN 150mm LIFTS AND COMPAC TO A MINIMUM OF 95% SPMDD.	TED		
<ul> <li>4.3. FOR ALL SEWERS AND WATERMAINS IN FILL SECTIONS, THE COMPACTION SH BE CERTIFIED BY A GEOTECHNICAL ENGINEER PRIOR TO LAYING OF PIPE.</li> <li>4.4. STORM SEWERS SHALL BE CONSTRUCTED WITH BEDDING AS PER OPSD 802.</li> </ul>			
<ul> <li>FOR RIGID PIPE OR OPSD 802.010 WITH GRANULAR 'A' FOR FLEXIBLE PIPE UN APPROVED OTHERWISE BY THE DIRECTOR.</li> <li>4.5. PIPE MATERIAL TO BE REINFORCED CONCRETE SHALL BE CERTIFIED TO C.S.</li> </ul>	LESS		
STANDARD A247.2-1982, CLASS 65-D OR PVC CERTIFIED C.S.A. STANDARDS 18 AND 182.4 MAX.	82.2		
4.6. ALL PIPE BEDDING MUST CONFORM TO OPSD MAXIMUM COVER TABLE OPSD 807.010. NO FLEXIBLE PIPE SEWERS WILL BE INSTALLED WITH A DEPTH COVE GREATER THAN 6m UNLESS SPECIFICALLY APPROVED BY THE DIRECTOR.	R		
4.7. SEWER BEDDING, COVER AND BACKFILL FOR FLEXIBLE PIPE TO BE AS PER O 802.010 WITH GRANULAR "A" FOR BOTH THE BEDDING AND COVER. REFEREN HOWEVER SHOULD BE MADE TO THE OPSD STANDARDS FOR ALTERNATE BE AND BACKFILL SPECIFICATIONS AS DETERMINED BY THE PROPOSED PIPE	ICE		
MATERIAL AND EXCAVATION CONDITIONS. 5. MAINTENANCE HOLES			
5.1. MANHOLES MAY BE EITHER PRECAST OR POURED IN PLACE AND SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT ONTARIO PROVINCIAL STANDARD DRAWINGS SPECIFICATIONS.			
5.2. MANHOLES SHALL BE LOCATED AT EACH CHANGE IN ALIGNMENT, GRADE OR MATERIAL, AT ALL PIPE JUNCTIONS, AT THE BEGINNING AND END OF RADIUS SELECTIONS AND AT INTERVALS ALONG THE PIPE TO PERMIT ENTRY FOR			
<ul> <li>MAINTENANCE TO THE SEWER.</li> <li>5.3. MAXIMUM SPACING OF MANHOLES SHALL BE 120m FOR SEWERS 600mm OR L IN DIAMETER AND 150m FOR SEWERS 675mm OR GREATER IN DIAMETER.</li> </ul>	EASS		SEAL
<ol> <li>MAINTENANCE HOLES SHALL BE 1200mm DIA. AND 1500mm DIA. AS PER OPSD 701.010 AND OPSD 701.011 (RESPECTIVELY). (SEE OPSD'S SHEET 19).</li> </ol>			SP PROFESSIONAL EX
5.5. MANHOLE CHAMBER OPENINGS SHALL BE LOCATED ON THE SIDE OF THE MANHOLE PARALLEL TO THE FLOW FOR STRAIGHT RUN MANHOLES, OR ON T UPSTREAM SIDE OF THE MANHOLE AT ALL JUNCTIONS.	HE		JAN JENKINS
<ul><li>5.6. CHANGE IN DIRECTION OF FLOW IN ANY MANHOLES SHALL NOT BE GREATER</li><li>90 DEGREES PERPENDICULAR TO THE FLOW.</li></ul>			ROLINCE OF ONTR
5.7. SAFETY GRATINGS SHALL BE PROVIDED IN ALL MANHOLES WHEN THE DEPTH THE MANHOLE EXCEEDS 5.0m. THE MAXIMUM SPACING BETWEEN SAFETY GRATINGS SHALL NOT EXCEED 4.5m, AS PER OPSD 404.020, (SEE OPSD, SHEE			
<ul> <li>5.8. THE OBVERTS ON THE UPSTREAM SIDE OF THE MANHOLES SHALL NOT BE LO THAN THE OBVERT OF THE OUTLET PIPE.</li> <li>5.9. WHERE THE DIFFERENCE IN ELEVATION BETWEEN THE OBVERT OF THE INLE</li> </ul>			
OUTLET PIPES EXCEED 1.2m, A DROP PIPE AS INDICTATED ON OPSD 1003.010 SHALL BE PLACED ON THE INLET PIPE, (SEE OPSD, SHEET 18). 5.10. STORM SEWER MANHOLES SHALL BE BENCHED TO THE OBVERT OF THE OUT	)		
<ul><li>5.11. MANHOLES SHALL BE LOCATED, WHEREVER POSSIBLE, A MINIMUM OF 1.5m A</li></ul>			TOWN OF CALEDON
5.12. THE MINIMUM DROPS ACROSS MANHOLES SHALL BE AS FOLLOWS, CHANGE IN DIRECTION MINIMUM DROP (mm)			
0° 30 1° TO 45° 50 45° TO 90° 80			
<ul><li>6. <u>CATCH BASINS</u></li><li>6.1. CATCH BASINS MAY BE EITHER PRECAST OR POURED AND SHALL BE DESIGN</li></ul>	IED		IBI GROUP Unit 300 – 8133 Warden Avenue Markham ON L6G 1B3 Canada tel 905 763 2322 fax 905 763 9983
<ul><li>AND CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT OPSD AND OF REQUIREMENTS.</li><li>6.2. ROADWAY CATCH BASIN COVERS SHALL BE "BICYCLE PROOF" AS PER OPSD</li></ul>	PSS		ibigroup.com
400.010. CATCH BASINS WITH THE TRAVELLED PORTION OF A ROADWAY, SHA HAVE THE FRAME ELEVATION FLUSH WITH THE SURFACE OF THE BASE COUP ASPHALT. THE ADJUSTMENT AND SETTING OF THE FRAME AND COVER SHAL COMPLETED IN ACCORDANCE WITH THE DETAILS PROVIDED IN THE OPSD	RSE L BE LIST OF DRAWINGS		PROJECT 12304 HEART LAKE ROAD
<ul><li>6.3. CATCH BASINS SHALL BE AS PER OPSD 701.010 (SEE OPSD, SHEET 19).</li></ul>	SG-01 - PHASE 2 - SITE GRADING SG-02 - PHASE 2 - SITE GRADING SG-03 - PHASE 2 - SITE GRADING SG 04 - PHASE 2 - SITE GRADING	PLAN PLAN	PHASE 2
<ul><li>6.4. DUAL CATCH BASINS SHALL BE AS PER OPSD 705.020 (SEE OPSD, SHEET 19).</li><li>6.5. DITCH INLET CATCH SHALL BE AS PER OPSD 705.040 (SEE OPSD, SHEET 19).</li></ul>	SS-01 - PHASE 2 - SITE SERVICIN SS-02 - PAHSE 2 - SITE SERVICIN SS-03 - PHASE 2 - SITE SERVICIN	G PLAN G PLAN G PLAN	CALEDON, ON. L7C 2J2
6.6. ALL CATCH BASIN LATERALS SHALL BE PLACED AT 2% GRADE UNLESS OTHER NOTED. PIPE SIZE MINIMUM 250mm DIAMETER SINGLE, 300mm DIAMETER DOU		SEDIMENT CONTROL PLAN SEDIMENT CONTROL PLAN	PROJECT NO: 135636
6.7. MAXIMUM SPACING FOR CATCHBASINS SHALL BE AS FOLLOWS: ROAD GRADE @ 0.75% - 70 m ROAD GRADE @ 0.75% to 3.0% - 90 m ROAD GRADE GREATER THAN 3% - 70 m	EC-04 - PHASE 2 - EROSION AND DD-01 - PHASE 2 - DETAIL DRAWI DD-02 - PHASE 2 - DETAIL DRAWI	SEDIMENT CONTROL PLAN NG	DRAWN BY: CHECKED BY: NDS JJ PROJECT MCP: APPROVED BY:
	DD-03 - PHASE 2 - DETAIL DRAWI DD-04 - PHASE 2 - DETAIL DRAWI SITE PLAN INFORMATION	NG	PROJECT MGR: APPROVED BY: JJ JJ SHEET TITLE
	WARE MALCOMB 250 UNIVERSITY AVE, SUITE 235 TORONTO, ON. M5H 3E5	R-PE SURVEYING LTD. ONTARIO LAND SURVEYORS 643 CHRISLEA ROAD, SUITE 7	PHASE 2 - GENERAL
	PHONE: (437) 537-5700 WEBSITE: www.waremalcomb.com BENCHMARK INFORMATION:	WOODBRIDGE, ON. L4L 8A3 PHONE: (416) 635-5000 WEBSITE: www.r-pe.ca	NOTES AND DETAILS
	DEINCHIMARK INFORMATION: ELEVATIONS ARE GEODETIC AND ARE REFE NUMBER 0081999991 HAVING AN ORTHOME ELEVATIONS ARE REFERENCED TO THE CA 1928, 1978 ADJUSTMENT (CGVD-1928:1978).	RIC ELEVATION OF 265.112 METRES.	SHEET NUMBER ISSUE
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	KEY PLAN		ISSUES No.	DESCRIPTION ISSUED FOR SPA SUBMISSION	DATE APR 22, 2022
			LEGEN	D	
STREET LINE					
Let the second s					
1.0m HL3 ASPHALT					
SPLASH PAD, 50mm					
APPROVED BY					
4.4     8.6       3.4     9.6       2.0     11.0       0.5     12.5					
LIGHT FIXTURE PER APPROVED TOWN OF CALEDON STANDARD. NGTH MINIMUM 100 MM DIA.SUB-DRAINS C/W FILTERCLOTH SHALL ALLED, AS PER APPROVED TOWN STANDARD NO. 219. NDE SHALL BE COMPACTED TO A MINIMUM 95% OF S.P.D. AT M MOISTURE CONTENT. OSSIBLE MANHOLE LIDS TO BELOCATED OUT OF TIRE LANE OF			SEAL	PROFESSION 4	
ASH PAD TO BE PATTERNED CONCRETE AS PER APPROVED TOWN DON STANDARD NO. 218. MENSION OF TRANSFORMER TO BE PARALLEL TO STREETLINE.				J. M. JENKINS	1
JAN. 09     APR'D:     C.C.     DATE:     JUNE 08       JULY 08     DRAWN:     SCALE:     N.T.S.       211     JUNE 08     STANDARD No. 211	3			BOUNCE OF ONTHE	
APR'D DATE STANDARD No. 211					
			Т	OWN OF CALE	
PORTED PIPE IN SUPPORTED EXCAVATION					
				<b>IBI GROUP</b> Unit 300 – 8133 Warden Av Markham ON L6G 1B3 Ca tel 905 763 2322 fax 905 7	anada
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mm         mm           900 or less         300           Over 900         500	DD-04 - PHASE 2 - DETAIL DRAWING SITE PLAN INFORMATION WARE MALCOMB 250 UNIVERSITY AVE. SUITE 235	G SURVEYOR INFORMATION -PE SURVEYING LTD. INTARIO LAND SURVEYORS	JJ SHEET <sup>-</sup> P	JJ TITLE HASE 2 - GENE	-RAI
RAWING         Nov         2015         Rev         3	TORONTO, ON. M5H 3E5         6           PHONE: (437) 537-5700         V           WEBSITE: www.waremalcomb.com         P	43 CHRISLEA ROAD, SUITE 7 VOODBRIDGE, ON. L4L 8A3 HONE: (416) 635-5000 VEBSITE: www.r-pe.ca		DTES AND DE	
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		WARE MALCOMB 250 UNIVERSITY AVE, SUITE 235 TORONTO, ON. M5H 3E5 PHONE: (437) 537-5700 WEBSITE: www.waremalcomb.com	R-PE SURVEYING LTD. ONTARIO LAND SURVEYORS 643 CHRISLEA ROAD, SUITE 7 WOODBRIDGE, ON. L4L 8A3 PHONE: (416) 635-5000	PHAS	$E 2 - GENE S AND DE^{-1}$	ERAL
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