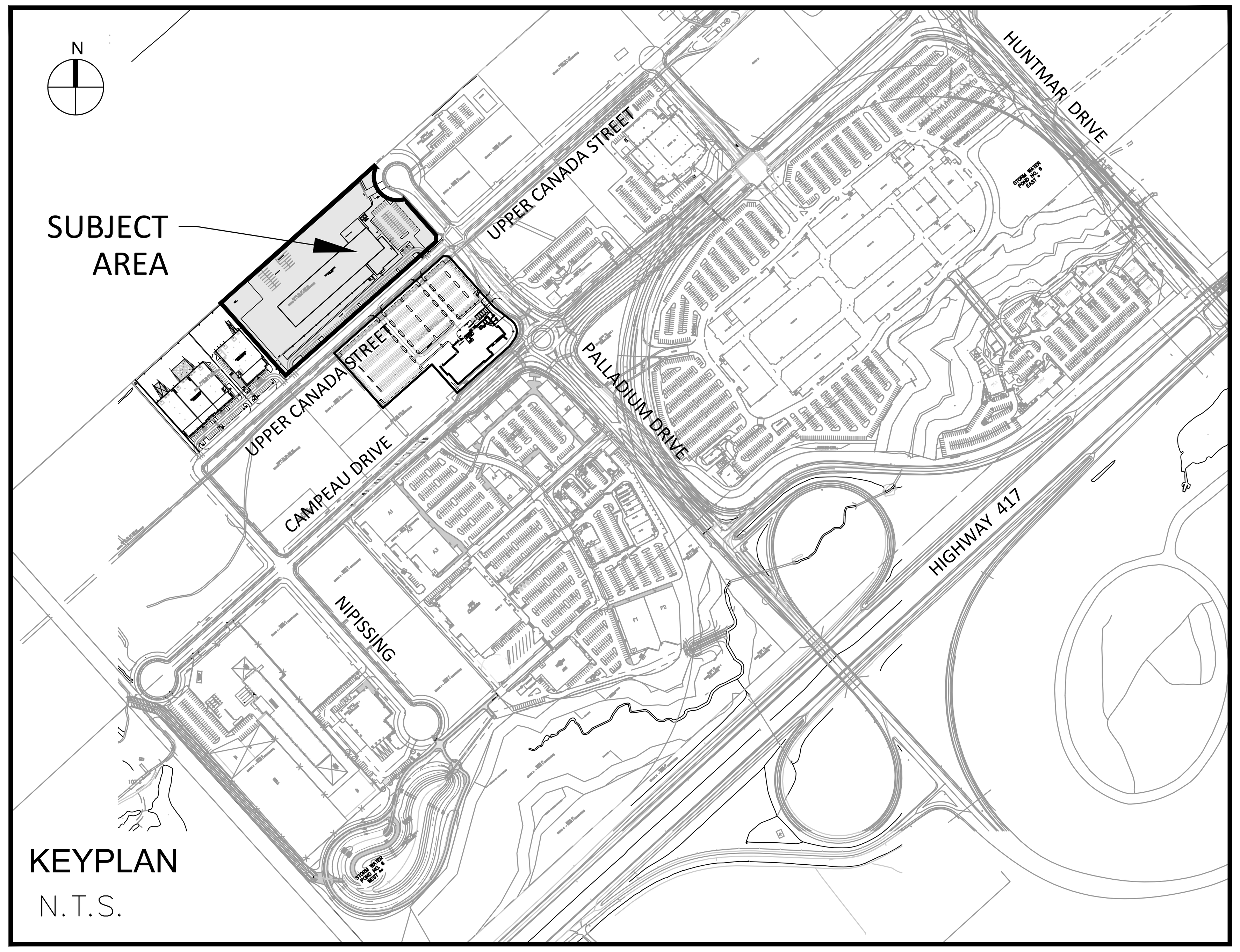
DISTRIBUTION KANATA

1400 UPPER CANADA STREET



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Sheet List Table

Sheet Number	Sheet Title	Sheet Description
C-000	COVER	
C-001	SITE SERVICING PLAN	
C-010	GENERAL NOTES LEGEND AND CB DATA TABLE	
C-200	SITE GRADING PLAN	
C-201	EXISTING CONDITIONS	
C-400	SANITARY DRAINAGE AREA PLAN	
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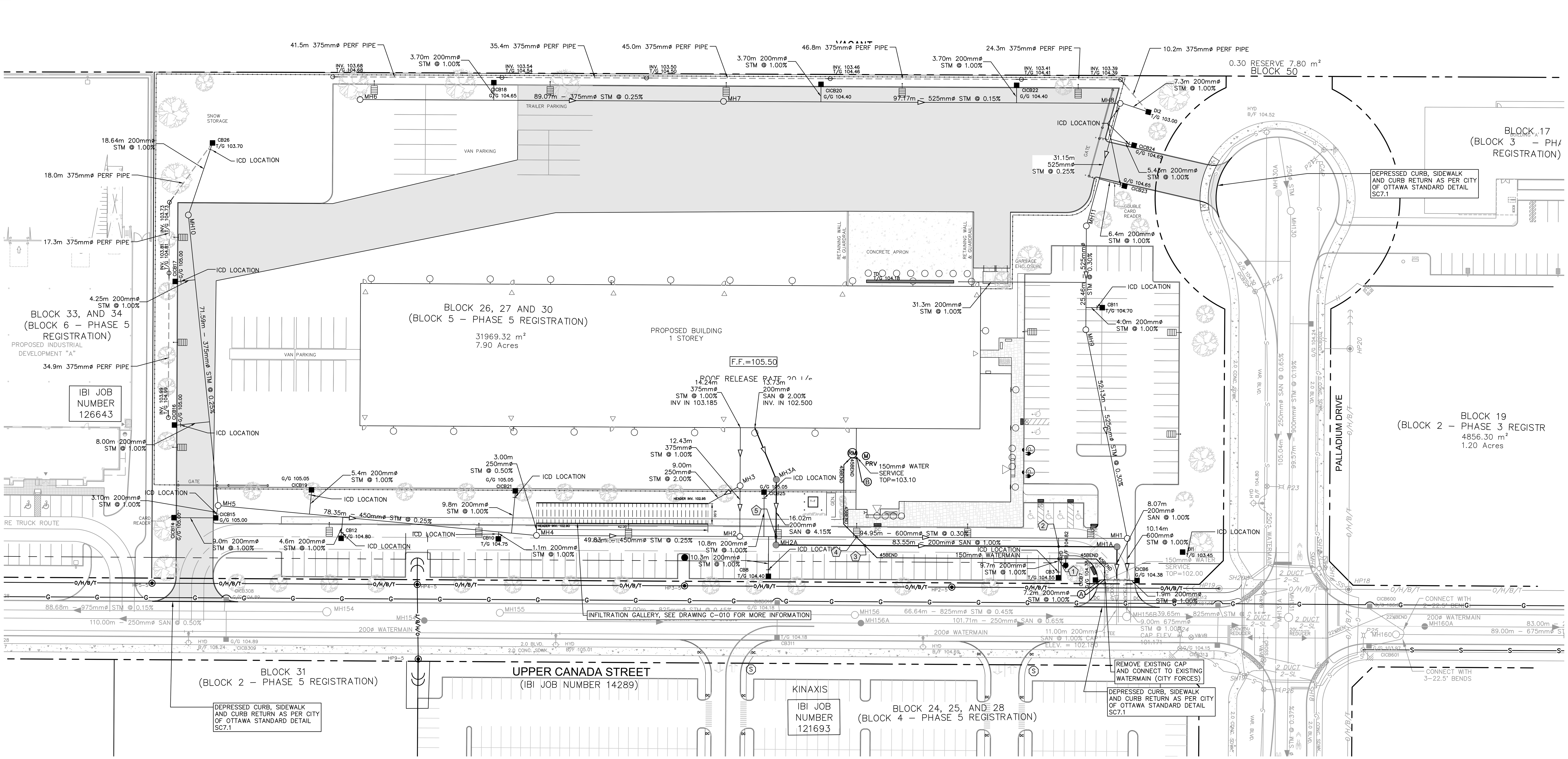
C-600	PONDING PLAN	
C-900	EROSION AND SEDIMENTATION CONTROL PLAN	

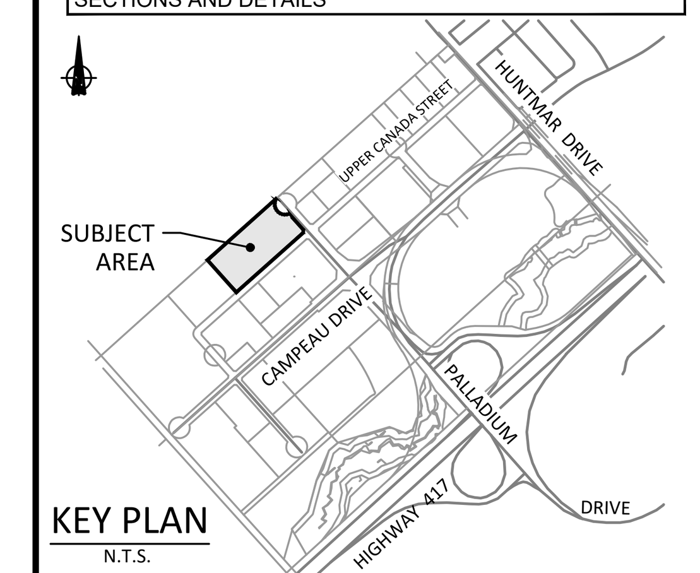
TAGGART REALTY MANAGEMENT

CONTRACT NO. 123987

REVISED AS PER CITY COMMENTS - 2020-12-18
CITY FILE No. D07-12-20-0125 CITY PLAN No. 18260



SEE 010, FOR NOTES, LEGEND, CB TABLE, STREET SECTIONS AND DETAILS



KEY PLAN
N.T.S.

CATCH BASIN DATA TABLE											
STRUCTURE ID	AREA ID	STRUCTURE	COVER	ELEVATION			OUTLET PIPE		HEAD	FLOW	ICD TYPE
				TOP OF GRATE	INVERT		DIAMETER (mm)	TYPE			
					INLET	OUTLET					
CICB25	CICB25	OPSD 705.010	S22 & S23	**105.05**		103.550	200	PVC DR-35	1.85	40.0	Tempest HF
CICB21	CICB21	OPSD 705.010	S22 & S23	**105.05**		103.550	200	PVC DR-35	1.85	50.0	Tempest HF
CICB19	CICB19	OPSD 705.010	S22 & S23	**105.05**		103.550	200	PVC DR-35	1.85	20.0	Tempest HF
CICB15	CICB 14 15	OPSD 705.010	S22 & S23	**105.00**	103.410	103.400	200	PVC DR-35	1.90	6.0	Tempest Vortex
CICB14	CICB 14 15	OPSD 705.010	S22 & S23	**105.00**		103.500	200	PVC DR-35			
CICB16	CICB16	OPSD 705.010	S22 & S23	**105.00**		103.500	200	PVC DR-35	1.85	6.0	Tempest Vortex
CICB17	CICB17	OPSD 705.010	S22 & S23	**105.00**		103.500	200	PVC DR-35	1.85	6.0	Tempest Vortex
CB12	CB12	OPSD 705.010	S19	**104.80**		103.300	200	PVC DR-35	1.90	20.0	Tempest HF
CB10	CB10	OPSD 705.010	S19	**104.75**		103.250	200	PVC DR-35	1.90	20.0	Tempest HF
CB11	CB11	OPSD 705.010	S19	**104.70**		103.200	200	PVC DR-35	2.00	33.0	Tempest HF
CICB18	CICB18	OPSD 705.010	S22 & S23	**104.65**		103.150	200	PVC DR-35			
CICB24	CICB24	OPSD 705.010	S22 & S23	**104.65**		103.150	200	PVC DR-35	1.80	6.0	Tempest Vortex
CICB23	CICB23	OPSD 705.010	S22 & S23	**104.65**		103.150	200	PVC DR-35	1.80	6.0	Tempest Vortex
CB3	CB3	OPSD 705.010	S19	**104.55**		103.050	200	PVC DR-35	1.80	65.0	Tempest HF
CICB20	CICB20	OPSD 705.010	S22 & S23	**104.40**		102.900	200	PVC DR-35			
CB8	CB8	OPSD 705.010	S19	**104.40**		102.900	200	PVC DR-35	1.85	105.0	Tempest HF
CICB22	CICB22	OPSD 705.010	S22 & S23	**104.40**		102.900	200	PVC DR-35			
CICB6	CICB 6 7	OPSD 705.010	S22 & S23	**104.38**		102.880	200	PVC DR-35			
CICB7	CICB 6 7	OPSD 705.010	S22 & S23	**104.38**		102.880	200	PVC DR-35			
CB26	L1	OPSD 705.010	S19	**103.70**	102.700	102.700	200	PVC DR-35	2.15	6.0	Tempest Vortex
DI1	L3	OPSD 705.010	S19	**103.45**		101.950	200	PVC DR-35	2.70	6.0	Tempest Vortex
DI2	L2	OPSD 705.010	S19	**103.00**		101.500	200	PVC DR-35			
MH8	L2	OPSD701.010	Closed	**104.71**		101.657	525	CONC 100D	3.52	36.0	Tempest HF

Bold font indicates CB's with ICD's

Revision: 2020-12-18

WATERMAIN SCHEDULE						
	Station	Description	Finished Grade	Top of Watermain	Watermain Cover	As Built Watermain
A	0+000.00	REMOVE EXISTING CAP AND CONNECT	104.39	102.00	2.39	
	0+003.00	45 BEND	104.46	102.06	2.40	
	0+006.00	45 BEND	104.50	102.10	2.40	
	0+025.00	-	104.77	102.37	2.40	
	0+059.75	45 BEND	105.09	102.69	2.40	
	0+071.39	45 BEND	105.27	102.87	2.40	
	0+085.91	45 BEND	105.33	102.93	2.40	
	0+088.24	45 BEND	105.45	103.05	2.40	
B	0+089.70	150mm SERVICE CONNECTION	105.50	103.10	2.40	

REVISED 2020-08-20

STRM STRUCTURE TABLE						
NAME	RIM ELEV.	INVERT IN	INVERT IN AS-BUILT	INVERT OUT	INVERT OUT AS-BUILT	DESCRIPTION
MH1	104.58	NW101.347 SW101.332		SE101.272		1200mmø OPSD-701.010
MH2	104.71	SW101.767 NW103.126		NE101.617		1200mmø OPSD-701.010
MH3	105.13	NW103.043		S103.168 SE103.250		1200mmø OPSD-701.010
MH4	104.86	SW101.952 NW102.885		NE101.892		1200mmø OPSD-701.010
MH5	105.24	NW102.223		NE102.148		1200mmø OPSD-701.010
MH6	104.98			NE102.212		1200mmø OPSD-701.010
MH7	104.67	SW101.989		NE101.803		1200mmø OPSD-701.010
MH8	104.71	SW101.657		SE101.657		1200mmø OPSD-701.010
MH9	104.82	NW101.503		SE101.503		1200mmø OPSD-701.010
MH10	105.28			SE102.402		1200mmø OPSD-701.010
MH11	105.08	NW101.579		SE101.579		1200mmø OPSD-701.010
STM BLKHD	104.38	NW101.171				675mmø BULKHEAD

SAN STRUCTURE TABLE						
NAME	RIM ELEV.	INVERT IN	INVERT IN AS-BUILT	INVERT OUT	INVERT OUT AS-BUILT	DESCRIPTION
MH1A	104.55	SW100.417		SE100.417		1200mmø OPSD-701.010
MH2A	104.64	NW101.253		NE101.253		1200mmø OPSD-701.010
MH3A	105.12	NW102.225		SE101.918		1200mmø OPSD-701.010
SAN BLKHD	104.38	NW100.337				200MMø CAP

No.	REVISIONS	By	Date
14			
13			
12			
11			
10			
9			
8			
7			
6			
5			
4			
3	REVISED AS PER CITY COMMENTS	T.R.B.	2020:12:18
2	ISSUED FOR 30% REVIEW	T.R.B.	2020:11:13
1	ISSUED FOR SPA	T.R.B.	2020:09:17

TAGGART REALTY MANAGEMENT

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Project Title
Purolator
DISTRIBUTION KANATA
1400 UPPER CANADA STREET,

LICENSED PROFESSIONAL ENGINEER
T. R. BRULE
2020/12/18
PROVINCE OF ONTARIO

N

Drawing Title
SITE SERVICING PLAN

Scale
1:500

Design	Date
J.B.	AUG . 2020
Drawn	Checked
J.B/D.P.S.	T.R.B.
Project No.	Drawing No.
123987	C-001

CITY FILE No. D07-12-20-0125 CITY PLAN No. 18260

UTILITY LEGEND

Symbol	Description
	TRANSFORMER
	TRANSFORMER C/W CONCRETE WINGS
HSG	HYDRO SWITCHGEAR
HMH	HYDRO MANHOLE
	BELL PEDESTAL
GLB	BELL GRADE LEVEL BOX (l=600mm, w=1200mm, d=750mm) C/W 1.5 x 3.0m easement
FC	BELL FIBER CABINET (l=1200mm, w=750mm, d=500mm)
CSP	BELL CENTRAL SPLITTING POINTS (l=1175mm, w=1200mm, d=500mm)
	ROGERS PEDESTAL
	ROGERS VAULT (l=1000mm, w=1000mm, d=1200mm) C/W 1m x 2m easement
P30	STREET LIGHT
D	STREET LIGHT DISCONNECT
	STREET LIGHT GROUNDING
H/B/T/G/S	JOINT UTILITY TRENCH
H	HYDRO CABLE AND DUCTS
B	BELL CABLE
BB	BELL DUCTS
T	ROGERS CABLE
TT	ROGERS DUCTS
G	GAS
S	STREET LIGHT CABLE
	UTILITY DROP LOCATIONS
10–DUCTS 6–H 4–T	CONCRETE ENCASED DUCT BANK C/W NUMBER OF DUCTS
CMB	COMMUNITY MAILBOX
	PROPOSED TREE LOCATION
	ROOT MANAGEMENT BARRIER

SEDIMENT EROSION LEGEND

- HEAVY DUTY SILT FENCE
- SNOW FENCE
- STRAW BALE CHECK DAM
- STRAW BALE CHECK DAM WITH FILTER CLOTH
- ROCK CHECK DAM
- SEDIMENT SACK PLACED UNDER EXISTING CB COVER
- TEMPORARY MUD MAT 0.15m THICK 50mm CLEAR STONE ON NON WOVEN FILTER CLOTH

GENERAL LEGEND

- LIMIT OF CONSTRUCTION
- PHASING LINE
- BARRIER CURB
- MOUNTABLE CURB
- DEPRESSED BARRIER CURB
- CONCRETE SIDEWALK
- TACTILE WALKING SURFACE INDICATOR
- ASPHALT SIDEWALK / PATHWAY
- BUS STOP CONCRETE / ASPHALT
- HEAVY DUTY ASPHALT

SERVICING LEGEND

Symbol	Description
MH118A	SANITARY MANHOLE
200mmø SAN	SANITARY SEWER
MH109 / MH118	STORM MANHOLE
825mmø STM	STORM SEWER - LESS THAN 900Ø
900mmø STM	STORM SEWER - 900Ø AND GREATER
200ø WATERMAIN	WATERMAIN
CB100 T/G 104.10	STREET CATCHBASIN C/W TOP OF GRATE
CICB101 G/G 104.25	CURB INLET CATCHBASIN C/W GUTTER GRADE
DCB100 T/G 104.10	DOUBLE CATCHBASIN C/W TOP OF GRATE
DCICB101 G/G 104.25	DITCH INLET CATCHBASIN C/W GUTTER GRADE
CBMH100 T/G 103.59	CATCHBASIN MANHOLE C/W TOP OF GRATE
CBMH101 T/G 103.59	DITCH INLET MANHOLE C/W TOP OF GRATE
MH109	ICD LOCATION
RYCB T/G 104.35	REAR YARD CATCHBASIN IN ROAD CONNECTING STRUCTURE C/W SOLID GRATE
T/G 104.35 INV 103.35	REAR YARD "TEE" CATCHBASIN (300Ø) C/W TOP OF GRATE AND INVERT OUT
T/G 104.50 INV 103.50	REAR YARD "END" CATCHBASIN (300Ø) C/W TOP OF GRATE AND INVERT OUT
T/G 104.35 INV 103.35	REAR YARD "CUSTOM ANGLED " CATCHBASIN (450Ø) C/W TOP OF GRATE AND INVERT OUT
T/G 104.35 INV 103.35	REAR YARD "THREE WAY" CATCHBASIN (450Ø) C/W TOP OF GRATE AND INVERT OUT
	PERFORATED REAR YARD SUBDRAIN
300mmø CSP	CSP CULVERT C/W DIAMETER
V&VB	VALVE AND VALVE BOX
V&VC	VALVE AND VALVE CHAMBER
HYD 104.35	FIRE HYDRANT C/W BOTTOM OF FLANGE ELEVATION
200ø WM RED 150ø WM	WATERMAIN REDUCER
2 VBENDS	VERTICAL BEND LOCATION

GRADING LEGEND

- PROPOSED SWALE C/W FLOW DIRECTION
- PROPOSED DITCH C/W FLOW DIRECTION AND SLOPE
- SLOPE C/W FLOW DIRECTION
- MAJOR OVERLAND FLOW ROUTE
- PROPOSED SPOT GRADE
- PROPOSED SWALE GRADE
- PROPOSED SWALE HIGH POINT GRADE
- LOT CORNER GRADE C/W EXISTING GRADE
- TIE INTO EXISTING GRADE
- FULL STATIC PONDING GRADE
- RETAINING WALL C/W TOP OF WALL AND GRASS GRADE
- TERRACING 3:1 MAXIMUM UNLESS NOTED OTHERWISE
- PRESSURE REDUCING VALVE

PAVEMENT STRUCTURE:

LIGHT DUTY - CAR PARK AREAS

50mm	- WEAR COURSE - HL-3 OR SUPERPAVE 12.5 ASPHALTIC CONCRETE
150mm	- BASE - OPSS GRANULAR "A" CRUSHED STONE
300mm	- SUBBASE - OPSS GRANULAR "B" TYPE II

HEAVY DUTY - TRUCK AREAS

40mm	- SUPERPAVE 12.5 ASPHALTIC CONCRETE
50mm	- SUPERPAVE 19.0 ASPHALTIC CONCRETE
150mm	- OPSS GRANULAR "A" CRUSHED STONE
450mm	- OPSS GRANULAR "B" TYPE II

DRAWING NOTES

1.0 GENERAL

1.1 CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.

1.2 DO NOT SCALE DRAWINGS.

1.3 CONTRACTOR TO REPORT ALL DISCOVERIES OF ERRORS, OMISSIONS OR DISCREPANCIES TO THE ARCHITECT OR DESIGN ENGINEER AS APPLICABLE.

1.4 USE ONLY THE LATEST REVISED DRAWINGS OR THOSE THAT ARE MARKED "ISSUED FOR CONSTRUCTION".

1.5 ALL CONSTRUCTION SHALL COMPLY WITH CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS.

1.6 THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT DRAWINGS AND SPECIFICATIONS.

1.7 FOR LEGAL SURVEY INFORMATION REFER TO REGISTERED PLAN.

1.8 REFER TO SITE PLAN BY N45 ARCHITECTURE.

1.09 CONTRACTOR TO IMPLEMENT EROSION AND SEDIMENT CONTROL MEASURES AS IDENTIFIED IN THE EROSION AND SEDIMENT CONTROL PLAN TO THE SATISFACTION OF THE CITY OF OTTAWA, PRIOR TO UNDERTAKING ANY SITE ALTERATIONS (FILLING, GRADING, REMOVAL OF VEGETATION, ETC.). DURING ALL PHASES OF THE SITE PREPARATION AND CONSTRUCTION THE MEASURES ARE TO BE MAINTAINED TO THE SATISFACTION OF THE ENGINEER AND CITY OF OTTAWA IN ACCORDANCE WITH THE BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL. SHOULD ANY ADDITIONAL MEASURES BE REQUIRED TO ADDRESS FIELD CONDITIONS THEY SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER OR THE CITY OF OTTAWA. SUCH ADDITIONAL MEASURES MAY INCLUDE BUT NOT BE LIMITED TO INSTALLATION OF FILTER CLOTHS ACROSS MANHOLE AND CATCHBASIN LIDS TO PREVENT SEDIMENT FROM ENTERING THE STRUCTURE AND INSTALLATION AND MAINTENANCE OF A LIGHT DUTY SILT FENCE BARRIER AS REQUIRED.

1.10 ALL IRON WORK ELEVATIONS SHOWN ARE APPROXIMATE AND ARE SUBJECT TO MINOR ADJUSTMENTS AS DETERMINED BY THE ENGINEER.

1.11 ALL CONCRETE CURBS AND SIDEWALKS TO CONFORM TO O.P.S. AND CONSTRUCTED TO CITY STANDARDS. ALL ONSITE CURBS TO BE BARRIER TYPE, WITH DEPRESSIONS AS NOTED.

1.12 ALL CONCRETE SHALL BE "NORMAL PORTLAND CEMENT" IN ACCORDANCE WITH O.P.S.S. 1350 AND SHALL ACHIEVE A MINIMUM STRENGTH OF 30MPa AT 28 DAYS.

1.13 ALL CONSTRUCTION TRAFFIC TO ACCESS SITE FROM PALLADIUM DRIVE OR UPPER CANADA STREET.

1.14 FOR GEOTECHNICAL REPORT SEE GEOTECHNICAL INVESTIGATION PG4783-1 FEB 7, 2019 BY PATERSON GROUP.

1.15 CONTRACTOR TO PROTECT EXISTING INFRASTRUCTURE AND PROPERTY SUCH AS TREES, PARKING METERS, SIDEWALKS, CURBS, ASPHALT, AND STREET SIGNS FROM DAMAGE DURING CONSTRUCTION. CONTRACTOR TO PAY THE COST TO REINSTATE OR REPLACE ANY DAMAGED INFRASTRUCTURE OR PROPERTY TO THE SATISFACTION OF THE CITY.

1.16 THE POSITION OF POLE LINES, CONDUITS, WATERMAIN, SEWERS, AND OTHER UNDERGROUND AND ABOVEGROUND UTILITIES AND STRUCTURES ARE NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK THE CONTRACTOR SHALL INFORM ITSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES, SHALL PROTECT ALL UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

1.17 CONTRACTOR TO SUPPLY SUITABLE FILL MATERIAL WHERE REQUIRED TO ROUGH GRADE THE SITE. ALL IMPORTED FILL MATERIAL TO BE CERTIFIED AS ACCEPTABLE BY THE GEOTECHNICAL ENGINEER.

1.18 CONTRACTOR TO HAUL EXCESS MATERIAL OFFSITE AS NECESSARY TO GRADE SITE TO MEET THE PROPOSED GRADES. ALL EXCESS MATERIAL TO BE HAULED OFFSITE AND DISPOSED OF AT AN APPROVED DUMP SITE. SHOULD THE CONTRACTOR DISCOVER ANY HAZARDOUS MATERIAL, CONTRACTOR IS TO NOTIFY ENGINEER. ENGINEER TO DETERMINE APPROPRIATE DISPOSAL METHOD/LOCATION.

1.19 FILL MATERIAL WITHIN THE PARKING LOT AND BUILDING PAD AREAS, AND SUPPORTING BUILDING FOUNDATIONS SHALL BE COMPACTED TO 98% STANDARD MODIFIED PROCTOR DENSITY AND TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER.

1.20 ALL COMPACTION METHODS TO BE PERFORMED TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER TO INCLUDE BUT NOT BE LIMITED TO THE THICKNESS OF LIFTS, AND COMPACTION EQUIPMENT USED.

1.21 ALL DISTURBED BOULEVARDS TO BE REINSTATED WITH SOD ON 100mm TOPSOIL.

1.22 UTILITY DUCTS TO BE INSTALLED PRIOR TO ROAD BASE CONSTRUCTION.

1.23 CLAY DIKES TO BE INSTALLED WHERE INDICATED ON THE DRAWINGS OR AS APPROVED AND DIRECTED BY THE GEOTECHNICAL ENGINEER ALL IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS AND SPECIFICATIONS.

2.0 SANITARY

2.1 ALL SANITARY SEWER MAINS TO BE CSA CERTIFIED, BELL AND SPIGOT TYPE. ONLY FACTORY FITTINGS TO BE USED. SEWER TO BE INSTALLED AS PER OSPD 1005.01. SANITARY SEWER MATERIALS TO BE:
250mmØ AND SMALLER - PVC DR 35

2.2 ALL SANITARY MAINTENANCE HOLES TO BE 1.2m DIAMETER AS PER CITY OF OTTAWA STANDARDS COMPLETE WITH BENCHING, RUNGS, FRAME AND COVER, DROP PIPES AND LANDINGS WHERE NEEDED.

2.3 SANITARY MANHOLE COVERS TO BE CITY OF OTTAWA STD. S25 (MOD. OPSD. 401.020). SANITARY MANHOLE COVER TO BE CLOSED COVER TYPE, AS PER CITY STANDARD S24.

2.4 SANITARY SEWER LEAKAGE TEST AND CCTV INSPECTION SHALL BE COMPLETED AS PER CITY SPECIFICATIONS PRIOR TO INSTALLATION OF BASE COURSE ASPHALT.

2.5 ANY SANITARY SEWER WITH LESS THAN 2.0m COVER REQUIRES THERMAL INSULATION AS PER CITY OF OTTAWA STANDARD W22, OR AS APPROVED BY THE ENGINEER.

2.6 CONNECTION TO THE EXISTING SANITARY SEWER TO BE INCLUDED IN THE COST FOR SANITARY SEWER INSTALLATION. THIS INCLUDES REINSTATEMENT OF ROAD CUTS TO CITY STANDARDS.

3.0 STORM

3.1 ALL STORM SEWERS TO BE CSA CERTIFIED, BELL AND SPIGOT TYPE. ALL STORM SEWERS TO BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS. ONLY FACTORY FITTINGS TO BE USED. STORM SEWER MATERIALS TO BE : 375mmØ AND SMALLER - PVC DR 35, 450mmØ AND LARGER - CONC. CL. 100-D, 825mmØ AND LARGER - CONC. CL. 65-D

3.2 ALL STORM MAINTENANCE HOLES TO BE SIZED IN ACCORDANCE WITH THE PLANS AND AS PER CITY OF OTTAWA STANDARDS COMPLETE WITH BENCHING, RUNGS, DROP PIPES AND FRAME AND COVER.

3.3 STORM MH COVERS TO BE OPEN TYPE, AS PER CITY STANDARD S24, FRAMES TO BE PER CITY OF OTTAWA STD. S25. CONTRACTOR TO INSTALL FILTER FABRIC UNDER STORM MH COVER UNTIL SODDING IS COMPLETE.

3.4 STORM MAINTENANCE HOLES TO BE OPSD, SIZE AS SPECIFIED, TAPER TOP.

3.5 ALL CATCH BASINS TO BE AS PER OPSD 705.010, FRAME & FISH TYPE GRATE AS PER CITY OF OTTAWA STD. S19.1.

3.6 ANY STORM SEWER WITH LESS THAN 2.0M COVER REQUIRES THERMAL INSULATION AS PER CITY OF OTTAWA STANDARD W22, OR AS APPROVED BY THE ENGINEER.

3.7 CONNECTION TO THE EXISTING STORM SEWER TO BE INCLUDED IN THE COST FOR STORM SEWER INSTALLATION.

3.8 CONTRACTOR TO PROVIDE IPEX-TEMPEST HF ICD'S SHOP DRAWINGS, OR EQUIVALENT, FOR ENGINEERS REVIEW PRIOR TO ORDERING ICD'S.

4.0 WATER

4.1 ALL WATERMAINS TO BE PVC DR 18, WITH MINIMUM COVER OF 2.4M AND INSTALLED PER CITY OF OTTAWA STANDARDS. ALL DOMESTIC WATER SERVICES ARE TO BE 200MMØ.

4.2 THRUST BLOCKS TO BE INSTALLED AT ALL BENDS, TEES, AND CAPS ALL AS PER OPSD 1103.01 AND 1103.02.

4.3 CONTRACTOR TO CONDUCT PRESSURE AND LEAKAGE TESTING OF ALL WATERMAINS AND DISINFECT AND CHLORINATE ALL WATERMAINS TO THE SATISFACTION OF M.O.E. AND THE CITY OF OTTAWA.

4.4 TRACER WIRE TO BE INSTALLED ALONG THE FULL LENGTH OF WATERMAIN AND ATTACHED TO EACH MAIN STOP AS PER CITY OF OTTAWA STANDARDS.

4.5 ALL COMPONENTS OF THE WATER DISTRIBUTION SYSTEM SHALL BE CATHODICALLY PROTECTED AS PER CITY OF OTTAWA STANDARDS.

4.6 ALL VALVES & VALVE BOXES AND CHAMBERS, HYDRANTS, AND HYDRANT VALVES AND ASSEMBLIES SHALL BE INSTALLED AS PER CITY OF OTTAWA STANDARDS.

4.7 ANY WATERMAIN WITH LESS THAN 2.4M COVER REQUIRES THERMAL INSULATION AS PER CITY OF OTTAWA STANDARD W22, OR AS APPROVED BY THE ENGINEER.

4.8 CONTRACTOR IS RESPONSIBLE FOR ACQUIRING THE WATER PERMIT FROM THE CITY OF OTTAWA AND PAYMENT OF ANY FEES ASSOCIATED WITH SECURING THE WATER PERMIT. OWNER IS RESPONSIBLE FOR REIMBURSING THE CONTRACTOR FOR THE ACTUAL COST OF ACQUIRING THE WATER PERMIT.

4.9 CONNECTION TO EXISTING WATERMAIN TO BE INCLUDED IN THE COST FOR THE WATERMAIN INSTALLATION. THIS COST INCLUDES REINSTATEMENT OF ROAD CUTS TO CITY STANDARDS.

5.0 PARKING LOT AND WORK IN PUBLIC RIGHTS OF WAY

5.1 CONTRACTOR TO REINSTATE ROAD CUTS PER CITY OF OTTAWA STANDARD R-10.

5.2 THE CONTRACTOR SHALL PREPARE A TRAFFIC MANAGEMENT PLAN FOR REVIEW AND APPROVAL BY THE CITY OF OTTAWA. CONTRACTOR TO MAINTAIN TRAFFIC FLOW DURING THE ENTIRE CONSTRUCTION PERIOD. MAINTENANCE OF ROAD CUTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. PROVISION OF FLAGMEN, DETOURS AS NECESSARY, BARRICADES AND SIGNS TO THE FULL SATISFACTION OF THE ENGINEER AND ROAD AUTHORITY SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

5.3 CONTRACTOR TO PREPARE SUBGRADE, INCLUDING PROOFROLLING, TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER PRIOR TO THE COMMENCEMENT OF PLACEMENT OF GRANULAR B MATERIAL.

5.4 FILL TO BE PLACED AND COMPACTED PER THE GEOTECHNICAL REPORT REQUIREMENTS.

5.5 CONTRACTOR TO SUPPLY, PLACE AND COMPACT GRANULAR B MATERIAL IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOETCHNICAL ENGINEER. CONTRACTOR TO PROVIDE ENGINEER WITH SAMPLES OF GRANULAR B MATERIAL FOR TESTING AND CERTIFICATION FROM THE GEOTECHNICAL ENGINEER THAT THE MATERIAL MEETS THE GRADATION REQUIREMENTS SPECIFIED IN THE GEOTECHNICAL REPORT.

5.6 GRANULAR A MATERIAL TO BE PLACED ONLY UPON APPROVAL BY THE GEOTECHNICAL ENGINEER OF GRANULAR B PLACEMENT.

5.7 CONTRACTOR TO SUPPLY, PLACE AND COMPACT GRANULAR A MATERIAL IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOETCHNICAL ENGINEER. CONTRACTOR TO PROVIDE ENGINEER WITH SAMPLES OF GRANULAR A MATERIAL FOR TESTING AND CERTIFICATION FROM THE GEOTECHNICAL ENGINEER THAT THE MATERIAL MEETS THE GRADATION REQUIREMENTS SPECIFIED IN THE GEOTECHNICAL REPORT.

5.8 ASPHALT MATERIAL TO BE PLACED ONLY UPON APPROVAL BY THE GEOTECHNICAL ENGINEER OF GRANULAR A PLACEMENT.

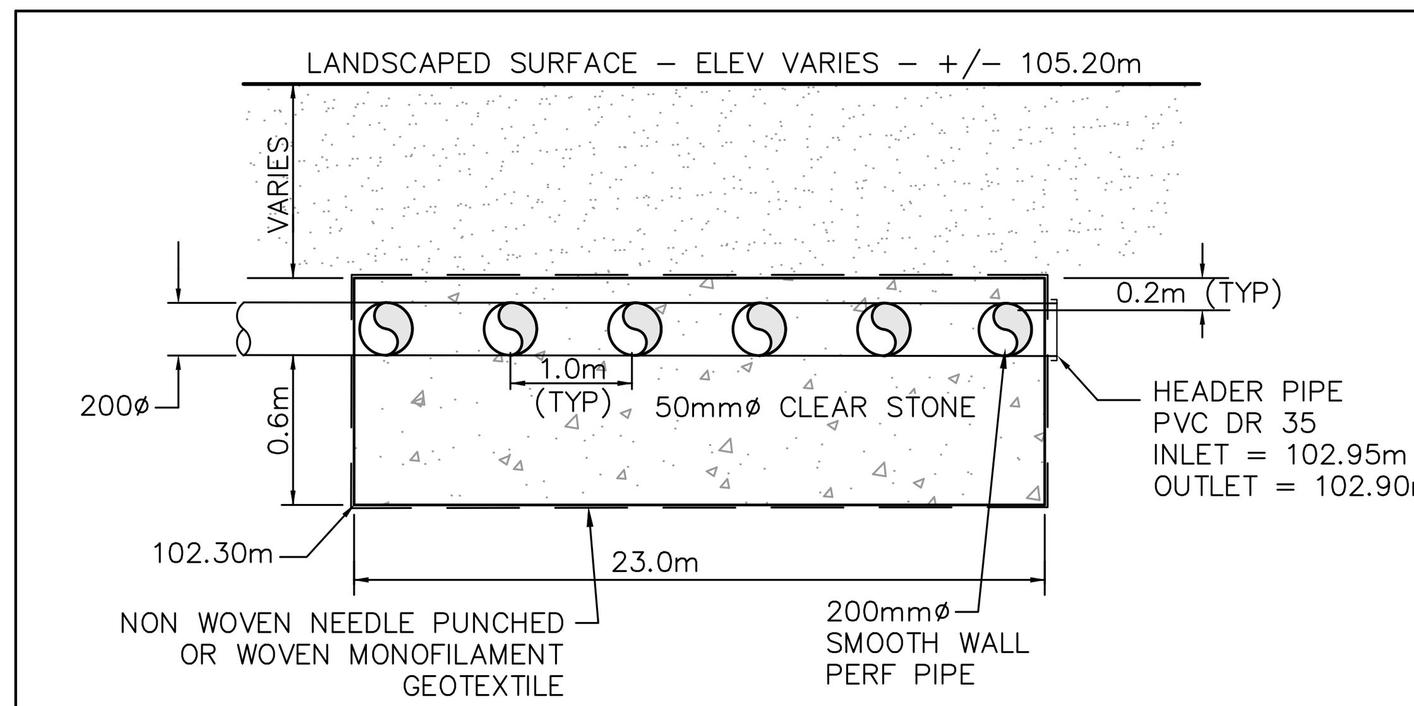
5.9 CONTRACTOR TO SUPPLY, PLACE AND COMPACT ASPHALT MATERIAL IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER. CONTRACTOR TO PROVIDE ENGINEER WITH SAMPLES OF ASPHALT MATERIAL FOR TESTING AND CERTIFICATION FROM THE GEOTECHNICAL ENGINEER THAT THE MATERIAL MEETS THE REQUIREMENTS SPECIFIED IN THE GEOTECHNICAL REPORT.

5.10 CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING LINE AND GRADE IN ACCORDANCE WITH THE PLANS, AND FOR PROVIDING THE ENGINEER WITH VERIFICATION PRIOR TO PLACEMENT.

5.11 DITCHES DISTURBED DURING CULVERT INSTALLATION AND GRADING OPERATIONS ARE TO BE REINSTATED TO THEIR ORIGINAL CONDITION AND FLOWLINE GRADES.

5.12 ALL EXCESS MATERIAL TO BE HAULED OFFSITE AND DISPOSED OF AT AN APPROVED DUMP SITE. SHOULD THE CONTRACTOR DISCOVER ANY HAZARDOUS MATERIAL, CONTRACTOR IS TO NOTIFY ENGINEER. ENGINEER TO DETERMINE APPROPRIATE DISPOSAL METHOD/LOCATION.

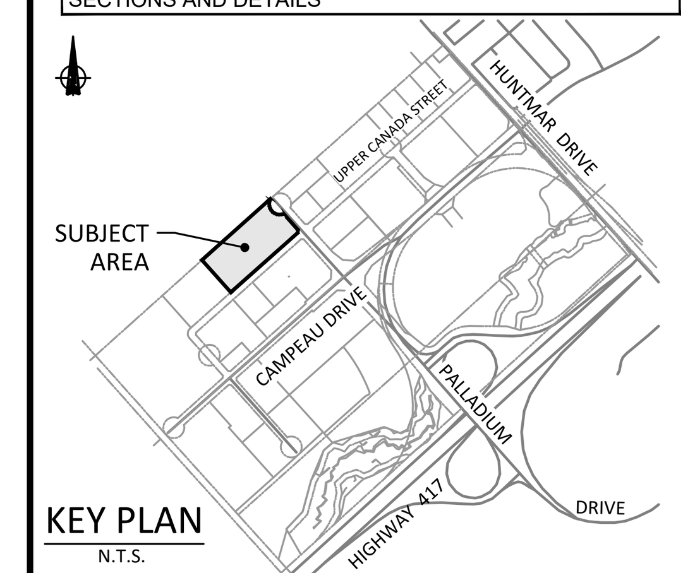
5.13 PAVEMENT STRUCTURE (MATERIAL TYPES AND THICKNESSES) FOR HEAVY DUTY AND LIGHT DUTY AREAS TO BE AS SPECIFIED IN THE GEOTECHNICAL REPORT AND SHOWN ON THE PLANS.



- SMEARING OF NATIVE MATERIAL AT THE INTERFACE WITH THE GALLERY FLOOR MUST BE AVOIDED AND/OR CORRECTED BY RAKING OR ROTO–TILLING
- COMPACTION OF THE GALLERY DURING CONSTRUCTION MUST BE MINIMIZED
- GALLERY SHOULD BE CONSTRUCTED AT THE END OF DEVELOPMENT CONSTRUCTION

INFILTRATION GALLERY SECTION
N.T.S.

SEE 010, FOR NOTES, LEGEND, CB TABLE, STREET SECTIONS AND DETAILS



KEY PLAN
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No.	REVISIONS	By	Date
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3	REVISED AS PER CITY COMMENTS	T.R.B.	2020:12:18
2	ISSUED FOR 30% REVIEW	T.R.B.	2020:11:13
1	ISSUED FOR SPA	T.R.B.	2020:09:17

TAGGART REALTY MANAGEMENT

IBI GROUP
400 – 333 Preston Street
Ottawa ON K1S 5N4 Canada
tel 613 225 1311 fax 613 225 9868
ibigroup.com

Project Title
Purolator
DISTRIBUTION KANATA
1400 UPPER CANADA STREET,

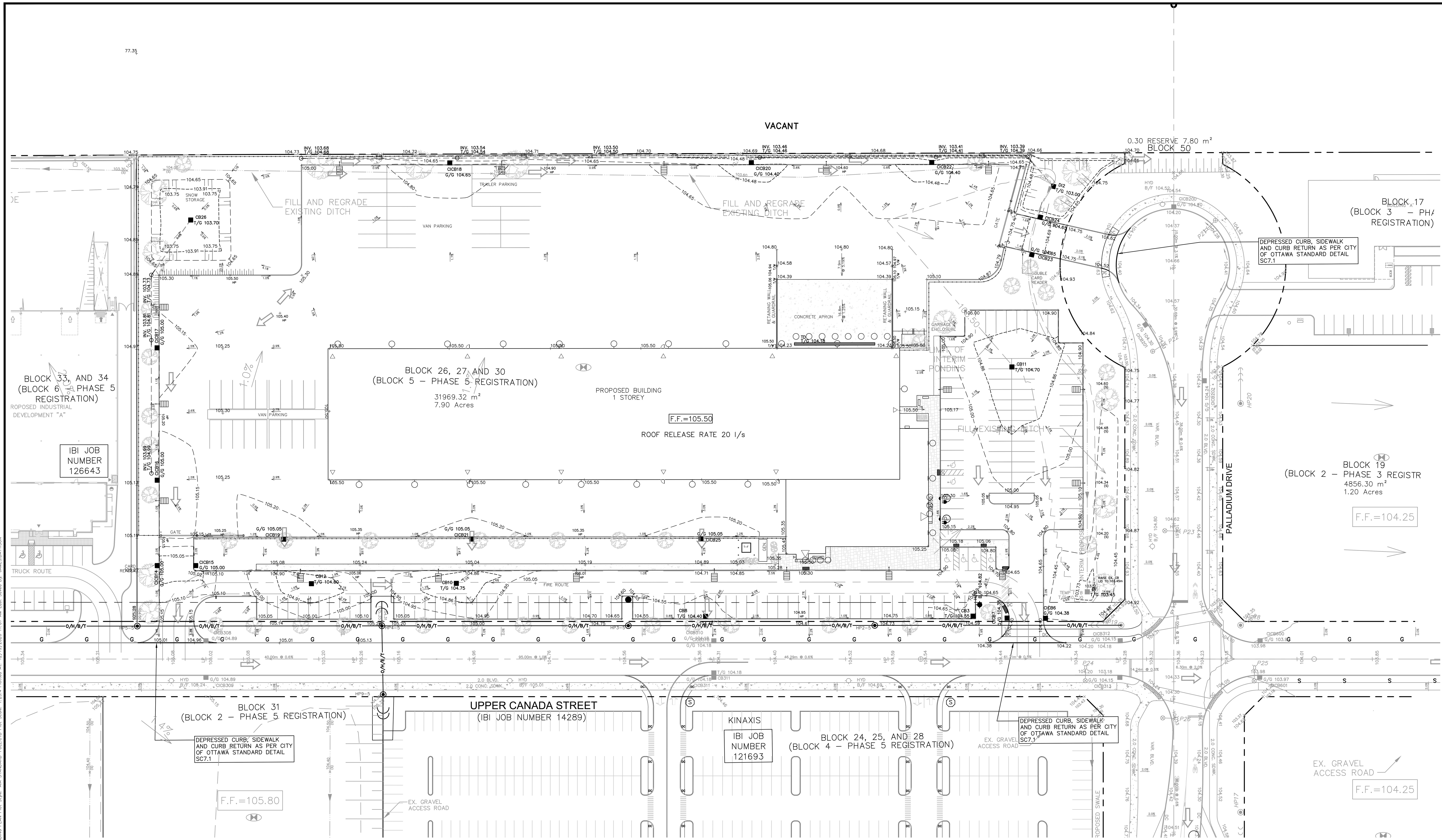
LICENSED PROFESSIONAL ENGINEER
T. R. BRULE
2020/12/18
PROVINCE OF ONTARIO

Drawing Title
GENERAL NOTES, LEGEND AND CB DATA TABLE

Scale: N.T.S.

Design	Date
J.B.	AUG . 2020
Drawn	**Checked**
J.B/D.P.S.	T.R.B.
Project No.	**Drawing No.**
123987	C-010

CITY PLAN No. 18260
CITY FILE No. D07-12-20-0125



NOTES:

1. SEE DETAIL DRAWING C-010 FOR ADDITIONAL DETAILS AND NOTES.
2. SITE BENCHMARK TO BE OBTAINED FROM LEGAL SURVEYOR STANTEC GEOMATICS.

No.	REVISIONS	By	Date
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1400 UPPER CANADA STREET, KANATA, ONTARIO

LICENSED PROFESSIONAL ENGINEER
T. R. BRULE
2020/12/18
PROVINCE OF ONTARIO

Drawing Title

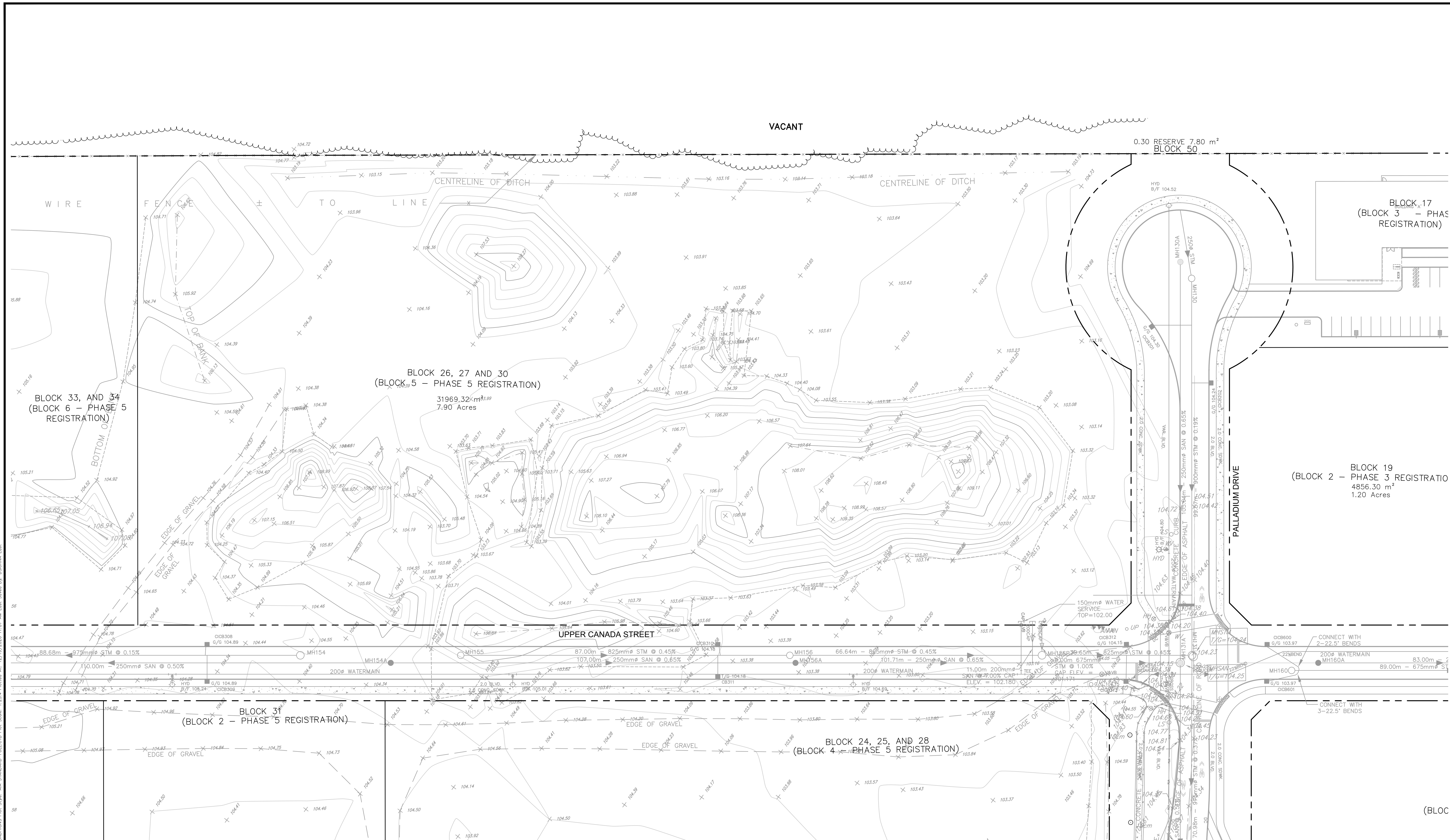
SITE GRADING PLAN

Scale 1:500

Design	Date
J.B.	AUG . 2020
Drawn	Checked
J.B/D.P.S.	T.R.B.
Project No.	Drawing No.
123987	C-200

CITY PLAN No. 18260

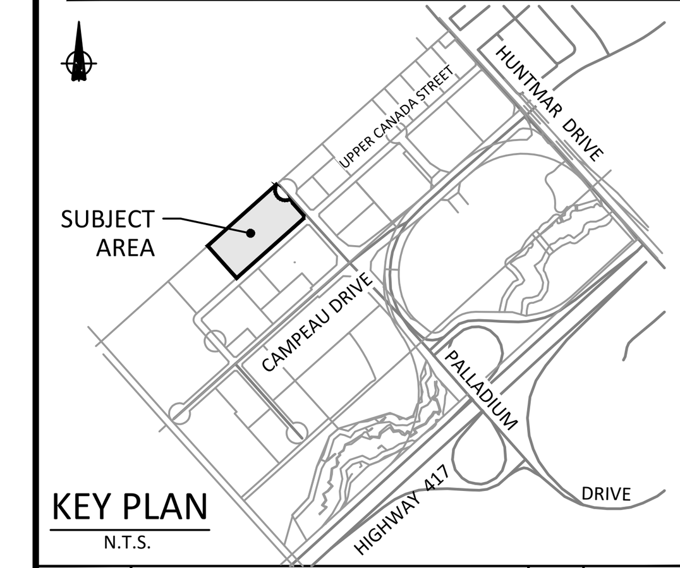
CITY FILE No. D07-12-20-0125



NOTES:

1. SEE DETAIL DRAWING C–010 FOR ADDITIONAL DETAILS AND NOTES.
2. SITE BENCHMARK TO BE OBTAINED FROM LEGAL SURVEYOR STANTEC GEOMATICS.

SEE 010, FOR NOTES, LEGEND, CB TABLE, STREET SECTIONS AND DETAILS



KEY PLAN
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1400 UPPER CANADA STREET,
KANATA, ONTARIO

LICENSED PROFESSIONAL ENGINEER
T. R. BRULE
2020/12/18
PROVINCE OF ONTARIO

N

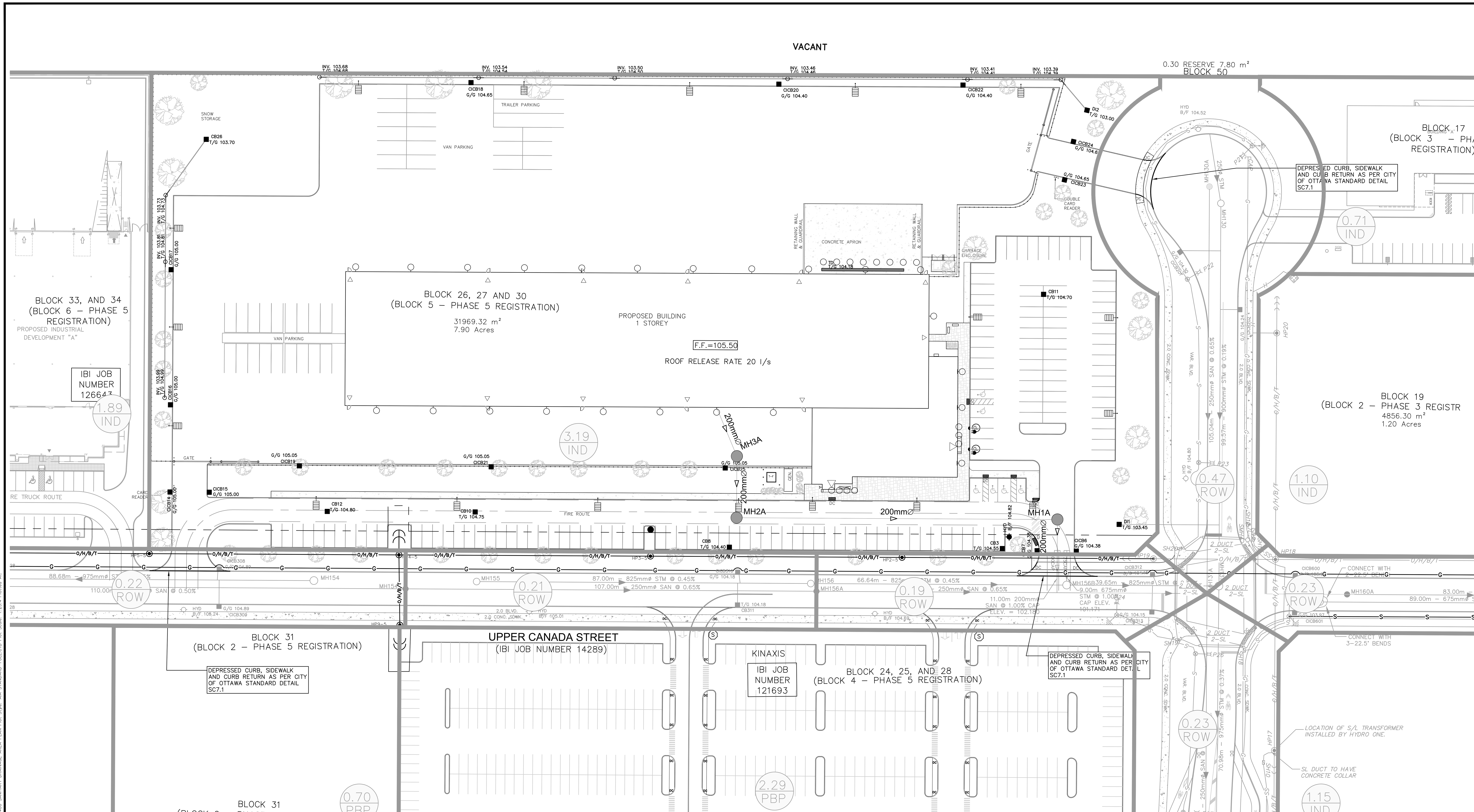
Drawing Title

EXISTING CONDITIONS

Scale
5 0 5 10
1:500

Design	Date
J.B.	AUG . 2020
Drawn	**Checked**
J.B/D.P.S.	T.R.B.
Project No.	**Drawing No.**
123987	C-201

CITY FILE No. D07-12-20-0125 CITY PLAN No. 18260



NOTES:

1. SEE DETAIL DRAWING C-010 FOR ADDITIONAL DETAILS AND NOTES.
2. SITE BENCHMARK TO BE OBTAINED FROM LEGAL SURVEYOR STANTEC GEOMATICS.

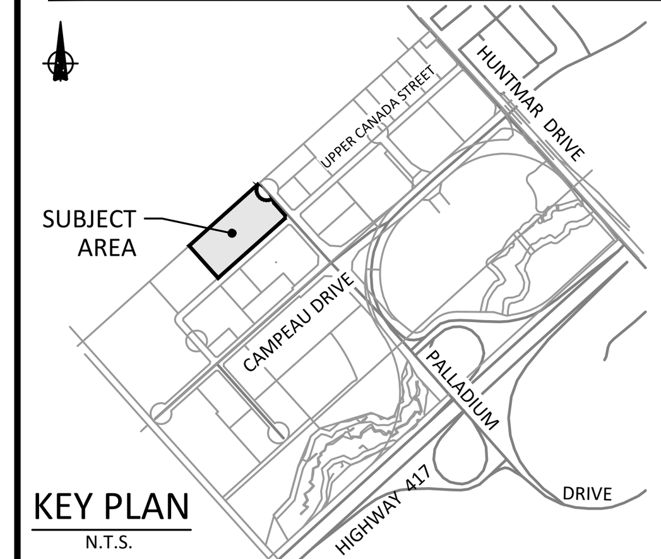
LEGEND :

- WH — AREA NUMBER
- 1.01 — RUNOFF COEFFICIENT
- 0.0 — AREA IN HECTARES
- 5.14 — AREA IN HECTARES
- PBP — LAND USE TYPE

PBP PRESTIGE BUSINESS PARK - 35 000 l/s/ha
IND LIGHT INDUSTRIAL - 35 000 l/s/ha
COM COMMERCIAL - 50 000 l/S/ha
ROW RIGHT OF WAY (INFILTRATION FLOW ONLY)

DRAINAGE AREA LIMITS
EXISTING DRAINAGE AREA LIMITS

SEE 010, FOR NOTES, LEGEND, CB TABLE, STREET SECTIONS AND DETAILS



KEY PLAN
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Project Title
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DISTRIBUTION KANATA
1400 UPPER CANADA STREET,

LICENSED PROFESSIONAL ENGINEER
T. R. BRULE
2020/12/18
PROVINCE OF ONTARIO

N

Drawing Title
SANITARY DRAINAGE AREA PLAN

Scale 1:500

Design	Date
J.B.	AUG . 2020
Drawn	Checked
J.B/D.P.S.	T.R.B.
Project No.	Drawing No.
123987	C-400

CITY PLAN No. 18260
CITY FILE No. D07-12-20-0125

J:\123987_KNWPurolator\7.0_Production\7.03_Design\04_Civil\Sheets\C-400 SANITARY DRAINAGE AREA PLAN.dwg Layout Name: C-400 SANITARY DRAINAGE AREA PLAN Plot Style: AIA STANDARD-FULL.CTB Plot Scale: 1:25.4 Plotted At:

JRE 6

VACANT

BLOCK 26, 27 AND 30
(BLOCK 5 – PHASE 5 REGISTRATION)
31969.32 m²
7.90 Acres

PROPOSED BUILDING
1 STOREY

F.F.=105.50

ROOF RELEASE RATE 20 l/s

BLOCK 33, AND 34
(BLOCK 6 – PHASE 5 REGISTRATION)
PROPOSED INDUSTRIAL
DEVELOPMENT "A"

IBI JOB NUMBER 126643

BLOCK 31
(BLOCK 2 – PHASE 5 REGISTRATION)

UPPER CANADA STREET
(IBI JOB NUMBER 14289)

KINAXIS
IBI JOB NUMBER 121693

BLOCK 24, 25, AND 28
(BLOCK 4 – PHASE 5 REGISTRATION)

BLOCK 19
(BLOCK 2 – PHASE 3 REGISTR
4856.30 m²
1.20 Acres

BLOCK 17
(BLOCK 3 – PHA
REGISTRATION)

0.30 RESERVE 7.80 m²
BLOCK 50

DEPRESSED CURB, SIDEWALK AND CURB RETURN AS PER CITY OF OTTAWA STANDARD DETAIL SC7.1

LOCATION OF S/L TRANSFORMER INSTALLED BY HYDRO ONE.

SL DUCT TO HAVE CONCRETE COLLAR

CONNECT WITH 2-22.5° BENDS

CONNECT WITH 3-22.5° BENDS

NOTES:

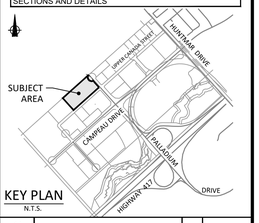
1. SEE DETAIL DRAWING C-010 FOR ADDITIONAL DETAILS AND NOTES.
2. SITE BENCHMARK TO BE OBTAINED FROM LEGAL SURVEYOR STANTEC GEOMATICS.

LEGEND :

- WH / 1.01 | 0.0 — AREA NUMBER / RUNOFF COEFFICIENT / AREA IN HECTARES
- WH / 1.01 | 0.0 — EXISTING AREA NUMBER / EXISTING AREA IN HECTARES / EXISTING RUNOFF COEFFICIENT
- Tc=11.70 AC=1.23 — ESTIMATED TIME OF CONCENTRATION IN MINUTES / PRODUCT OF AREA AND RUNOFF COEFFICIENT
- DRAINAGE AREA LIMITS
- EXISTING DRAINAGE AREA LIMITS
- EXISTING EMERGENCY OVERLAND FLOW

SEE 010, FOR NOTES, LEGEND, CB TABLE, STREET SECTIONS AND DETAILS

KEY PLAN
N.T.S.



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Project Title
PUROLATOR
DISTRIBUTION KANATA
1400 UPPER CANADA STREET,

LICENSED PROFESSIONAL ENGINEER
T. R. BRULE
2020/12/18
PROVINCE OF ONTARIO

Drawing Title
STORM DRAINAGE AREA PLAN

Scale
1:500

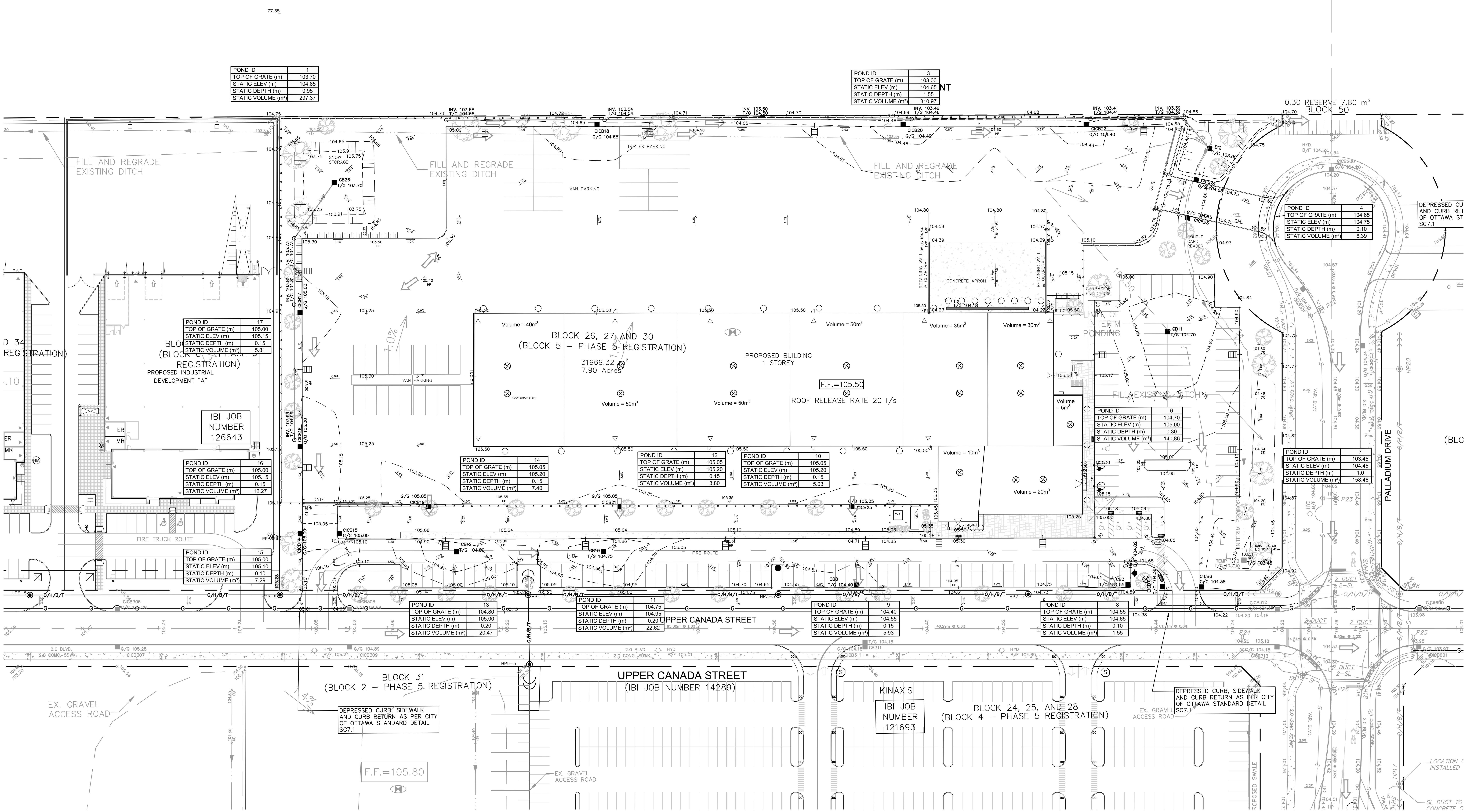
Design	Date
J.B.	AUG . 2020
Drawn: J.B/D.P.S.	Checked: T.R.B.
Project No. 123987	Drawing No. C-500

CITY PLAN No. 18260
CITY FILE No. D07-12-20-0125

S:\123987_KNP\Production\7.0_Production\7.03_Design\04_Civil\Sheets\C-500.dwg Layout Name: C-500 STORM DRAINAGE AREA PLAN Plot Style: AIA STANDARD-FULL.CTB Plot Scale: 1:25.4 Printed At: 12/18/2020 11:12 AM Last Saved By:

NOTES:

1. SEE DETAIL DRAWING C-010 FOR ADDITIONAL DETAILS AND NOTES.
2. SITE BENCHMARK TO BE OBTAINED FROM LEGAL SURVEYOR STANTEC GEOMATICS.



POND ID	1
TOP OF GRATE (m)	103.70
STATIC ELEV (m)	104.65
STATIC DEPTH (m)	0.95
STATIC VOLUME (m³)	297.37

POND ID	3
TOP OF GRATE (m)	103.00
STATIC ELEV (m)	104.65
STATIC DEPTH (m)	1.55
STATIC VOLUME (m³)	310.97

POND ID	4
TOP OF GRATE (m)	104.65
STATIC ELEV (m)	104.75
STATIC DEPTH (m)	0.10
STATIC VOLUME (m³)	6.39

POND ID	6
TOP OF GRATE (m)	104.70
STATIC ELEV (m)	105.00
STATIC DEPTH (m)	0.30
STATIC VOLUME (m³)	140.86

POND ID	7
TOP OF GRATE (m)	103.45
STATIC ELEV (m)	104.45
STATIC DEPTH (m)	1.0
STATIC VOLUME (m³)	158.46

POND ID	8
TOP OF GRATE (m)	104.55
STATIC ELEV (m)	104.65
STATIC DEPTH (m)	0.10
STATIC VOLUME (m³)	1.55

POND ID	9
TOP OF GRATE (m)	104.40
STATIC ELEV (m)	104.55
STATIC DEPTH (m)	0.15
STATIC VOLUME (m³)	5.93

POND ID	10
TOP OF GRATE (m)	105.05
STATIC ELEV (m)	105.20
STATIC DEPTH (m)	0.15
STATIC VOLUME (m³)	5.03

POND ID	11
TOP OF GRATE (m)	104.75
STATIC ELEV (m)	104.95
STATIC DEPTH (m)	0.20
STATIC VOLUME (m³)	22.62

POND ID	12
TOP OF GRATE (m)	105.05
STATIC ELEV (m)	105.20
STATIC DEPTH (m)	0.15
STATIC VOLUME (m³)	3.80

POND ID	13
TOP OF GRATE (m)	104.80
STATIC ELEV (m)	105.00
STATIC DEPTH (m)	0.20
STATIC VOLUME (m³)	20.47

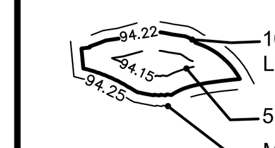
POND ID	14
TOP OF GRATE (m)	105.05
STATIC ELEV (m)	105.20
STATIC DEPTH (m)	0.15
STATIC VOLUME (m³)	7.40

POND ID	15
TOP OF GRATE (m)	105.00
STATIC ELEV (m)	105.10
STATIC DEPTH (m)	0.10
STATIC VOLUME (m³)	7.29

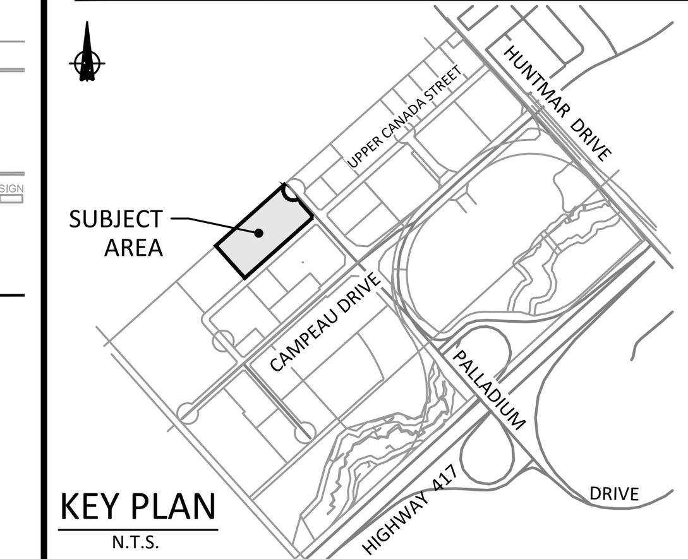
POND ID	16
TOP OF GRATE (m)	105.00
STATIC ELEV (m)	105.15
STATIC DEPTH (m)	0.15
STATIC VOLUME (m³)	12.27

POND ID	17
TOP OF GRATE (m)	105.00
STATIC ELEV (m)	105.15
STATIC DEPTH (m)	0.15
STATIC VOLUME (m³)	5.81

Roof Ponding Information
i. 16 flow control roof drains proposed
ii. All drains to be Watts RD100 with flow control or approved equivilant
iii. Maximum depth of storage 150mm
iv. Flow per drain to be maximum 1.25 litres/second, total flow from roof 20 litres/second
v. Scupper locations not yet established



SEE 010, FOR NOTES, LEGEND, CB TABLE, STREET SECTIONS AND DETAILS



KEY PLAN
N.T.S.

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DISTRIBUTION KANATA
1400 UPPER CANADA STREET, KANATA, ONTARIO

LICENSED PROFESSIONAL ENGINEER
T. R. BRULE
2020/12/18
PROVINCE OF ONTARIO

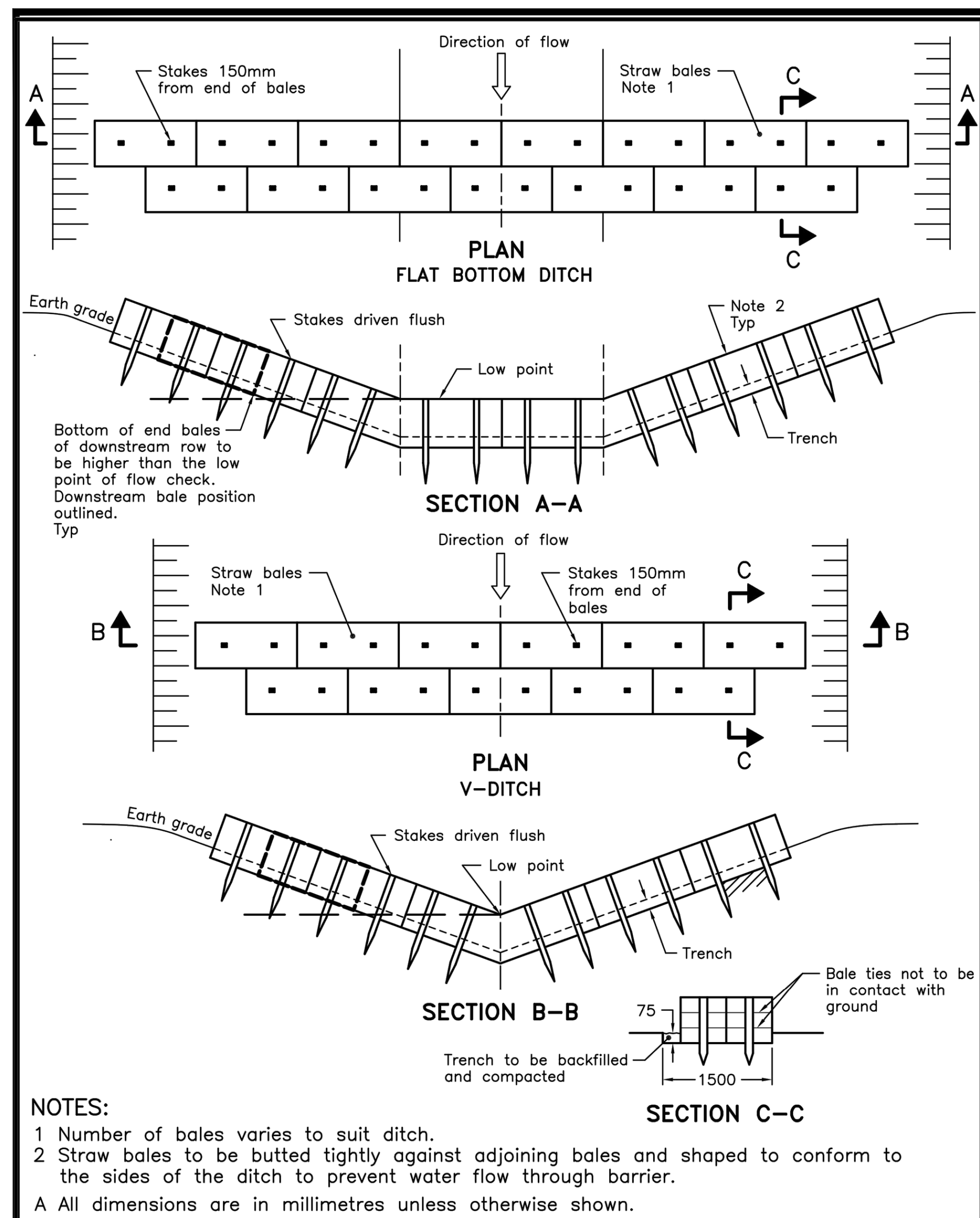
N

Drawing Title
PONDING PLAN

Scale
5 0 5 10
1:500

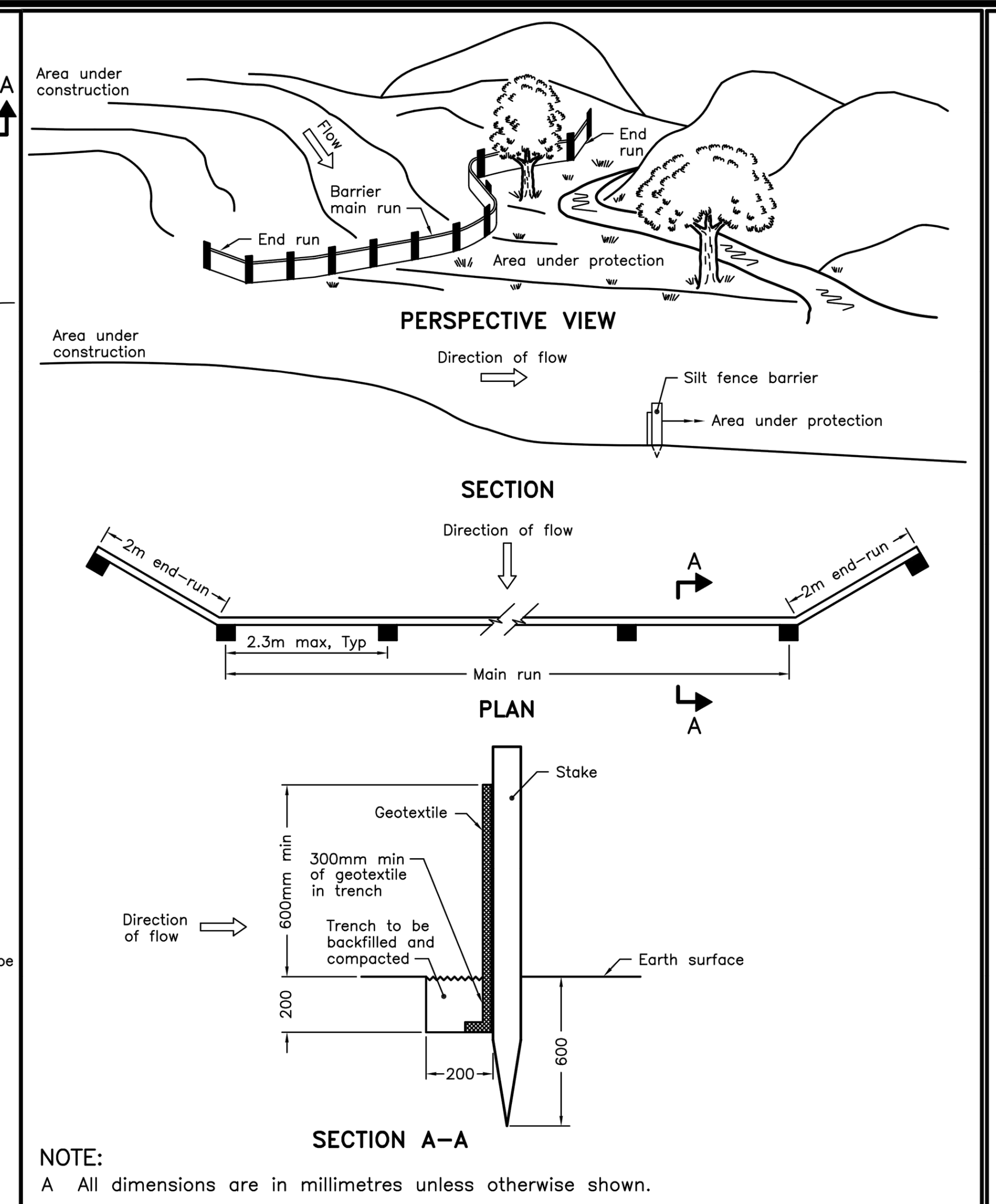
Design: J.B.	Date: AUG . 2020
Drawn: J.B/D.P.S.	Checked: T.R.B.
Project No.: 123987	Drawing No.: C-600

CITY FILE No. D07-12-20-0125 CITY PLAN No. 18260



NOTES:
1 Number of bales varies to suit ditch.
2 Straw bales to be butted tightly against adjoining bales and shaped to conform to the sides of the ditch to prevent water flow through barrier.
A All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2006	Rev 1
STRAW BALE FLOW CHECK DAM		OPSD 219.180



NOTE:
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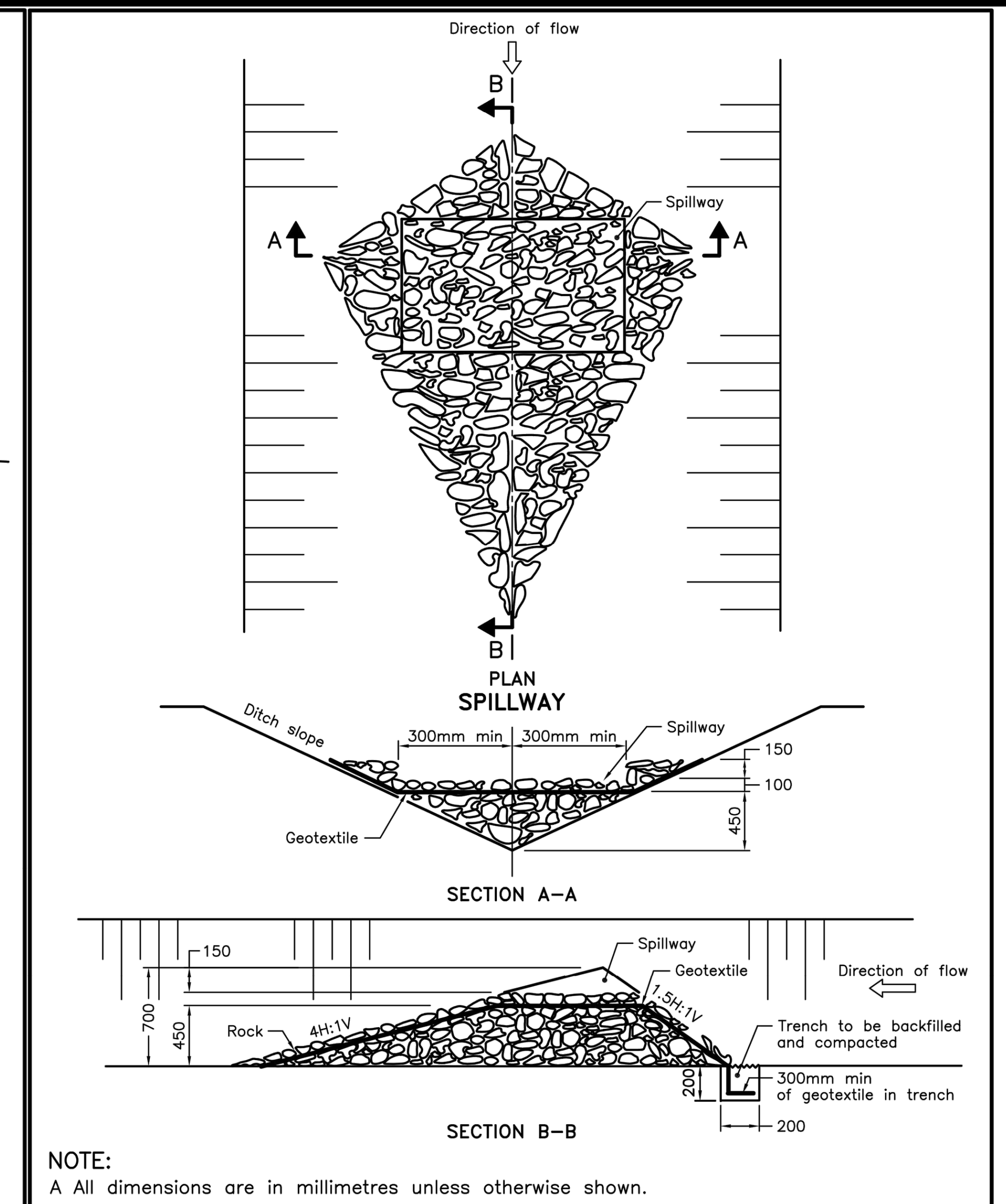
ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2006	Rev 1
LIGHT–DUTY SILT FENCE BARRIER		OPSD 219.110



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

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2006	Rev 1
ROCK FLOW CHECK DAM V–DITCH		OPSD 219.210

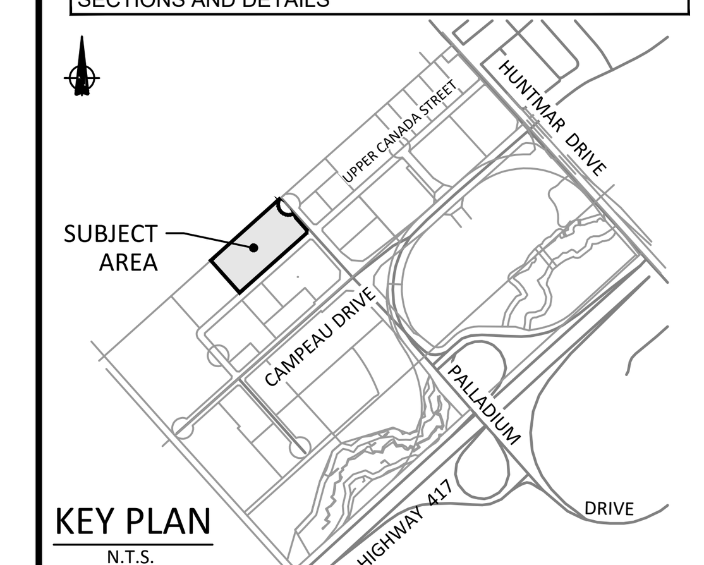
NOTES:

1. SILT FENCE TO BE ERECTED PRIOR TO EARTH WORKS BEING COMMENCED. SILT FENCE TO BE MAINTAINED UNTIL VEGETATION IS ESTABLISHED OR UNTIL START OF SUBSEQUENT PHASE.
2. STRAW BALE SEDIMENT TRAPS TO BE CONSTRUCTED IN EXISTING ROAD SIDE DITCHES. TRAPS TO REMAIN AND BE MAINTAINED UNTIL VEGETATION IS ESTABLISHED.
3. SILT SACK TO BE PLACED AND MAINTAINED UNDER COVER OF ALL CATCHBASINS. GEOTEXTILE SILT SACK IN STREET CBs TO REMAIN UNTIL ALL CURBS ARE CONSTRUCTED. GEOTEXTILE FABRIC IN RYCBs TO REMAIN UNTIL VEGETATION IS ESTABLISHED. ALL CATCHBASINS TO BE REGULARLY INSPECTED AND CLEANED, AS NECESSARY, UNTIL SOD AND CURBS ARE CONSTRUCTED.
4. CONTRACTOR TO PROVIDE DETAILS ON LOCATION(S) AND DESIGN OF DEWATERING TRAP(S) PRIOR TO COMMENCING WORK. CONTRACTOR ALSO RESPONSIBLE FOR MAINTAINING TRAP(S) AND ADJUSTING SIZE(S) IF DEEMED REQUIRED BY THE ENGINEER DURING CONSTRUCTION.
5. CONTRACTOR TO PROTECT EXISTING CATCHBASINS WITH FILTER CLOTH UNDER THE COVERS TO TRAP SEDIMENTATION. REFER TO IDENTIFIED STRUCTURES.

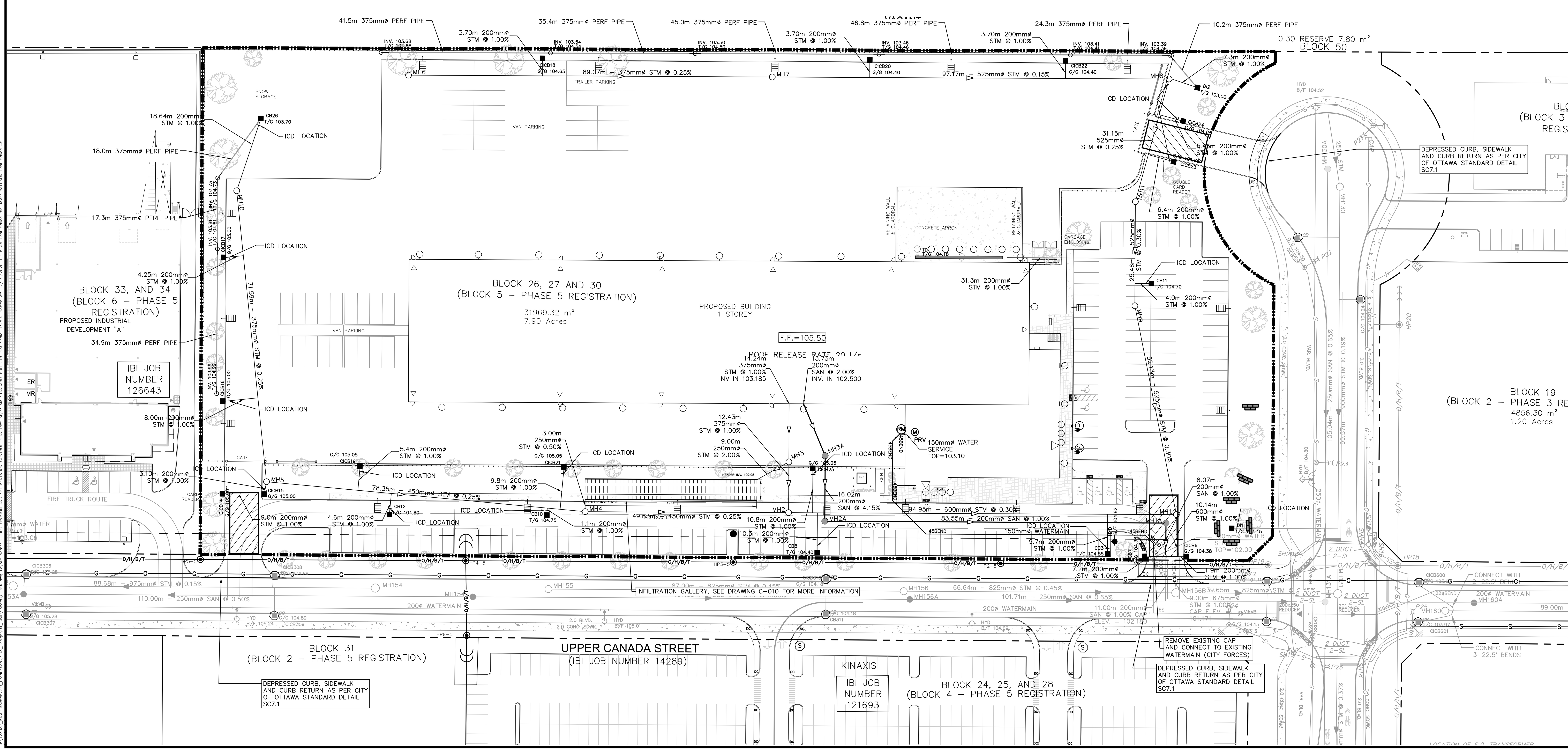
LEGEND :

- LIGHT DUTY SILT FENCE AS PER OPSD-219.110
- SNOW FENCE
- STRAW BALE CHECK DAM AS PER OPSD-219.180
- ROCK CHECK DAM AS PER OPSD-219.210
- SILT SACK PLACED UNDER EXISTING CB COVER
- TEMPORARY MUD MAT 0.15m THICK 50mm CLEAR STONE ON NON WOVEN FILTER CLOTH (15.0 × 7.0)

SEE 010, FOR NOTES, LEGEND, CB TABLE, STREET SECTIONS AND DETAILS



KEY PLAN
N.T.S.



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1400 UPPER CANADA STREET,

LICENSED PROFESSIONAL ENGINEER
T. R. BRULE
2020/12/18
PROVINCE OF ONTARIO

Drawing Title
EROSION AND SEDIMENTATION CONTROL PLAN

Scale	
Design: J.B.	Date: AUG . 2020
Drawn: J.B/D.P.S.	Checked: T.R.B.
Project No.: 123987	Drawing No.: C-900

CITY FILE No. D07-12-20-0125 CITY PLAN No. 18260