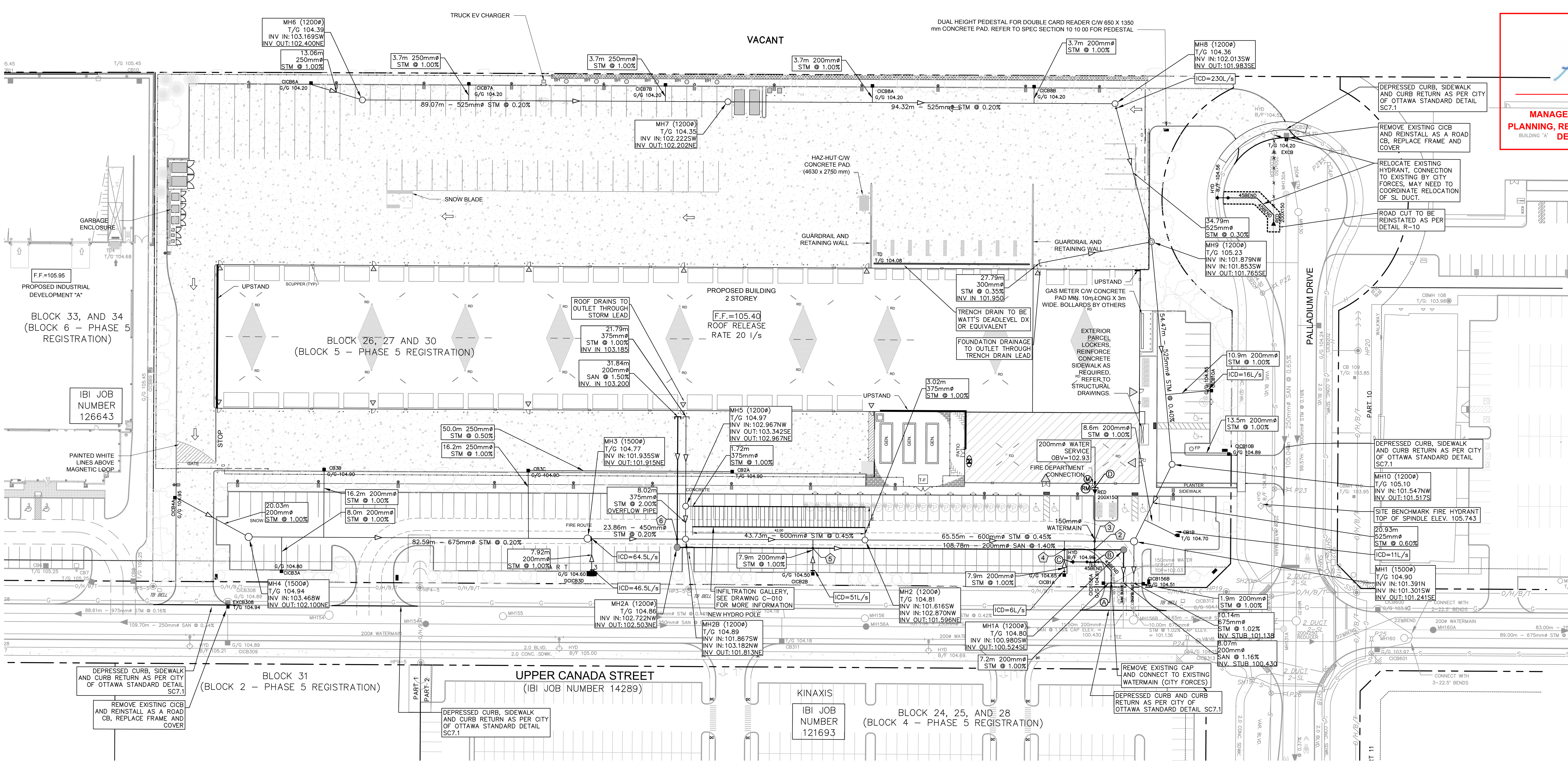

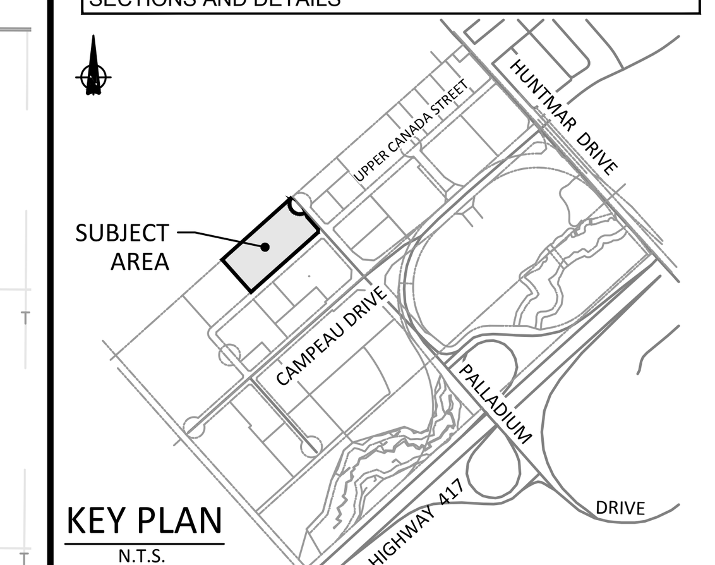

No.	REVISIONS	By	Date
14			
13			
12	ISSUED FOR SITE PLAN APPROVAL	S.E.L.	2023:12:12
11	REVISED AS PER NEW SITE PLAN	S.E.L.	2023:12:05
10	ISSUED FOR 100% SUBMISSION	S.E.L.	2023:12:01
9	REVISED AS PER CITY COMMENTS	S.E.L.	2023:11:13
8	ISSUED FOR BUILDING PERMIT	S.E.L.	2023:10:26
7	REVISED AS PER NEW SITE PLAN	S.E.L.	2023:09:29
6	REVISED AS PER NEW SITE PLAN	S.E.L.	2023:09:19
5	REVISED AS PER NEW SITE PLAN	S.E.L.	2023:06:21
4	ISSUED FOR 60% SUBMISSON	T.R.B.	2021:01:15
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

CATCHBASIN DATA TABLE

STRUCTURE ID	STORM AREA ID	STRUCTURE	FRAME & COVER	ELEVATION			OUTLET PIPE		INLET CONTROL DEVICE	
				TOP OF GRATE	INVERT		DIAMETER	TYPE	RESTRICTED FLOW	ICD TYPE
					INLET	OUTLET	(mm)		(l/s)	
CICB6A	MH6	OPSD 705.010	S22 & S23	104.20		102.80	250	PVC DR35		
CICB7A	MH6	OPSD 705.010	S22 & S23	104.20		102.80	250	PVC DR35		
CICB7B	MH6	OPSD 705.010	S22 & S23	104.20		102.80	250	PVC DR35		
CICB8A	MH7	OPSD 705.010	S22 & S23	104.20		102.80	200	PVC DR35		
CICB8B	MH7	OPSD 705.010	S22 & S23	104.20		102.80	200	PVC DR35		
CICB10A	MH9	OPSD 705.010	S22 & S23	104.85		103.45	200	PVC DR35	16.00	IPEX LMF
CICB10B	MH9	OPSD 705.010	S22 & S23	104.89		103.49	200	PVC DR35		
CB1B	MH10	OPSD 705.010	S19	104.70		103.30	200	PVC DR35	11.00	IPEX LMF
CICB4A	MH4	OPSD 705.010	S22 & S23	104.95		103.55	200	PVC DR35		
CICB3A	MH4	OPSD 705.010	S22 & S23	104.80		103.40	200	PVC DR35		
CB3B	MH4	OPSD 705.010	S19	104.90		103.70	200	PVC DR35		
CB3C	MH4	OPSD 705.010	S19	104.90	103.45	103.40	250	PVC DR35		
DCICB3D	MH3	OPSD 705.010	S22 & S23	104.60		103.20	200	PVC DR35	46.50	IPEX MHF
CB2A	MH4	OPSD 705.010	S19	104.90		103.50	250	PVC DR35		
CICB2B	MH2B	OPSD 705.010	S22 & S23	104.50		103.10	200	PVC DR35	51.00	IPEX MHF
CICB1A	MH2B	OPSD 705.010	S22 & S23	104.65		103.25	200	PVC DR35	6.00	IPEX LMF
CICB156A	MH4	OPSD 705.010	S22 & S23	104.56		103.16	200	PVC DR35		
CICB156B	MH4	OPSD 705.010	S22 & S23	104.51		103.11	200	PVC DR35		

CROSSING SCHEDULE

2	150mmØ WATERMAIN OVER 200mmØ SANITARY SEWER - CLEARANCE 0.983m
3	150mmØ WATERMAIN OVER 600mmØ STORM SEWER - CLEARANCE 0.409m
4	200mmØ STORM SEWER OVER 200mmØ SANITARY SEWER - CLEARANCE 1.797m
5	200mmØ STORM SEWER OVER 200mmØ SANITARY SEWER - CLEARANCE 0.789m
6	200mmØ SANITARY OVER 450mmØ STORM SEWER - CLEARANCE 0.412m

STRM STRUCTURE TABLE

NAME	RIM ELEV.	INVERT IN	INVERT IN AS–BUILT	INVERT OUT	INVERT OUT AS–BUILT	DESCRIPTION
MH1	104.90	N101.391 SW101.301		SE101.241		1500mmø OPSD–701.011
MH2	104.81	SW101.616 NW102.870		NE101.596		1200mmø OPSD–701.010
MH2B	104.89	SW101.867 NW103.182		NE101.813		1200mmø OPSD–701.010
MH3	104.77	SW101.935		NE101.915		1500mmø OPSD–701.011
MH4	104.94	W103.468		NE102.100		1500mmø OPSD–701.011
MH5	104.97	NW102.967		SE103.342 NE102.967		1200mmø OPSD–701.010
MH6	104.39	SW103.169		NE102.400		1200mmø OPSD–701.010
MH7	104.35	SW102.222		NE102.202		1200mmø OPSD–701.010
MH8	104.36	SW102.013		SE101.983		1200mmø OPSD–701.010
MH9	105.23	NW101.879 SW101.853		SE101.765		1200mmø OPSD–701.010
MH10	105.10	NW101.547		S101.517		1200mmø OPSD–701.010
STM BLKHD	104.53	NW101.138				675mmø BULKHEAD

WATERMAIN SCHEDULE

	Station	Description	Finished Grade	Top of Watermain	Watermain Cover	As Built Watermain
A	0+000.00	REMOVE EXISTING CAP AND CONNECT	104.56	102.03	2.53	
	0+003.00	45 BEND	104.66	102.26	2.40	
	0+005.91	45 BEND	104.74	102.34	2.40	
B	0+007.93	150mm TEE	104.89	102.49	2.40	
	0+009.75	HYRANT VALVE	104.88	102.48	2.40	
C	0+013.40	HYDRANT TEE	104.89	102.49	2.40	
B	0+000.00	-	104.89	102.49	2.40	
	0+010.00	-	105.02	102.62	2.40	
	0+017.25	150mm x 200mm REDUCER	105.31	102.91	2.40	
D	0+018.15	200mm SERVICE CONNECTION	105.33	102.93	2.40	

REVISED 2023-10-26

SAN STRUCTURE TABLE

NAME	RIM ELEV.	INVERT IN	INVERT IN AS–BUILT	INVERT OUT	INVERT OUT AS–BUILT	DESCRIPTION
MH1A	104.80	SW100.980		SE100.524		1200mmø OPSD–701.010
MH2A	104.86	NW102.722		NE102.503		1200mmø OPSD–701.010
SAN BLKHD	104.54	NW100.430				200MMø CAP

TAGGART REALTY MANAGEMENT

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Project Title
Purolator
DISTRIBUTION KANATA
1400 UPPER CANADA STREET,

LICENSED PROFESSIONAL ENGINEER
S. E. LABADIE
100214983
2023/12/12
PROVINCE OF ONTARIO

Drawing Title
SITE SERVICING PLAN

Scale 1:500

Design	Date
S.E.L.	AUG . 2020
Drawn	**Checked**
S.E.L./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

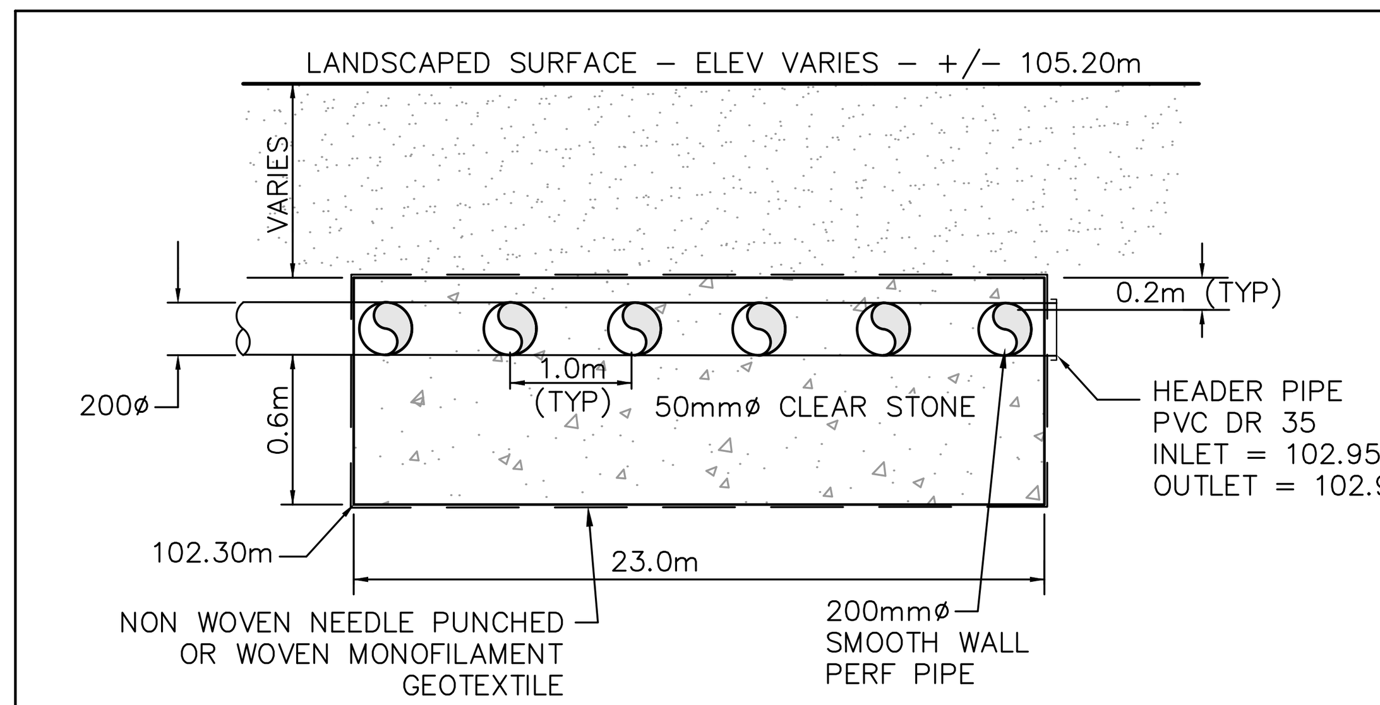
- LIMIT OF CONSTRUCTION
- PHASING LINE
- BARRIER CURB
- MOUNTABLE CURB
- DEPRESSED BARRIER CURB
- CONCRETE SIDEWALK
- TACTILE WALKING SURFACE INDICATOR
- ASPHALT SIDEWALK / PATHWAY
- BUS STOP CONCRETE / ASPHALT
- LIGHT DUTY ASPHALT
- RIGID CONCRETE APRONS

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

Symbol	Description
	PROPOSED SWALE C/W FLOW DIRECTION
0.5%	PROPOSED DITCH C/W FLOW DIRECTION AND SLOPE
	SLOPE C/W FLOW DIRECTION
	MAJOR OVERLAND FLOW ROUTE
104.62	PROPOSED SPOT GRADE
104.40	PROPOSED SWALE GRADE
104.50	PROPOSED SWALE HIGH POINT GRADE
104.60 103.59	LOT CORNER GRADE C/W EXISTING GRADE
86.45 EX	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



- 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.

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

1.13 CONTRACTOR TO FOLLOW LATEST GEOTECNICAL REPORT FOR RECOMMENDED PAVEMENT STUCTURE. TABLES SHOWN BELOW HAVE BEEN PULLED FROM GEOTECHNICAL INVESTIGATION PG4783-1 REV.4 DATED NOV. 7, 2023 BY PATERSON GROUP.

Table 3 - Recommended Pavement Structure - Car Only Parking Areas

Thickness (mm)	Material Description
50	**Wear Course** – HL-3 or Superpave 12.5 Asphaltic Concrete
150	**BASE** – OPSS Granular A Crushed Stone
300	**SUBBASE** – OPSS Granular B Type II
SUBGRADE – Either fill, in-situ soil, or OPSS Granular B Type I or II material over in-situ soil or fill material placed over in situ soil or fill.	

REFER LATEST GEOTECHNICAL REPORT AND STRUCTURAL DRAWINGS REGARDING RECOMMENDED RIGID PAVEMENT STRUCTURE FOR CONCRETE APRONS AND TRANSITION BETWEEN PAVEMENT STRUCTURE (ASPHALT SURFACE) AND RIGID PAVEMENT STRUCTURE (CONCRETE SURFACE)

1.14 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.

1.15 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.

1.16 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.

1.17 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.

1.18 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.

1.19 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.

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

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

1.22 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 STANI 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 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.

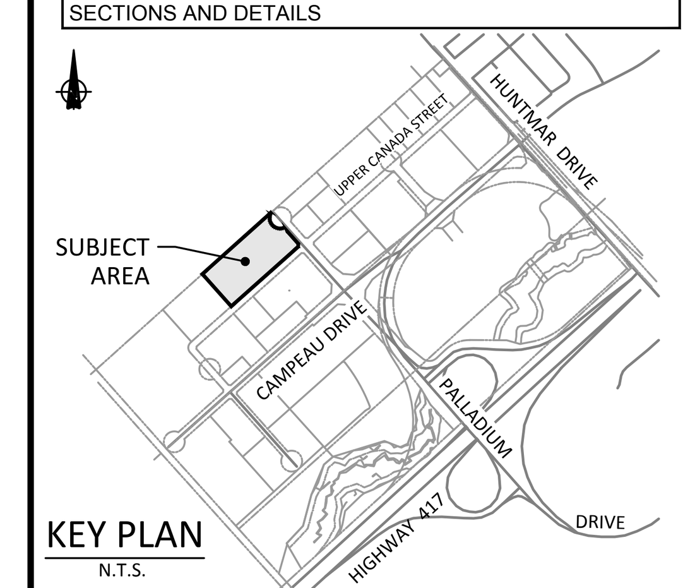
5.12 ALL EXCESS MATERIAL TO BE HAULED OFFSITE AND DISPOSED OF AT AN APPROVED DUMP SITE. SHOULD THE CONTRACTOR DISCOVER ANY HAZARDOUS MATERIAL, CONTRACTOR IS TO NOTIFY ENGINEER. ENGINEER TO DETERMINE APPROPRIATE DISPOSAL METHOD/LOCATION.

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.

AHamlin
ALLISON HAMLIN
MANAGER (A), DEVELOPMENT REVIEW WEST
PLANNING, REAL ESTATE & ECONOMIC DEVELOPMENT DEPARTMENT, CITY OF OTTAWA

APPROVED
By Allison Hamlin at 11:41 am, Jan 17, 2024

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



KEY PLAN
N.T.S.

No.	REVISIONS	By	Date
14			
13			
12	ISSUED FOR SITE PLAN APPROVAL	S.E.L.	2023:12:12
11	REVISED AS PER NEW SITE PLAN	S.E.L.	2023:12:05
10	ISSUED FOR 100% SUBMISSION	S.E.L.	2023:12:01
9	REVISED AS PER CITY COMMENTS	S.E.L.	2023:11:13
8	ISSUED FOR BUILDING PERMIT	S.E.L.	2023:10:26
7	REVISED AS PER NEW SITE PLAN	S.E.L.	2023:09:29
6	REVISED AS PER NEW SITE PLAN	S.E.L.	2023:09:19
5	REVISED AS PER NEW SITE PLAN	S.E.L.	2023:06:21
4	ISSUED FOR 60% SUBMISSON	T.R.B.	2021:01:15
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
S. E. LABADIE
100214983
2023/12/12
PROVINCE OF ONTARIO

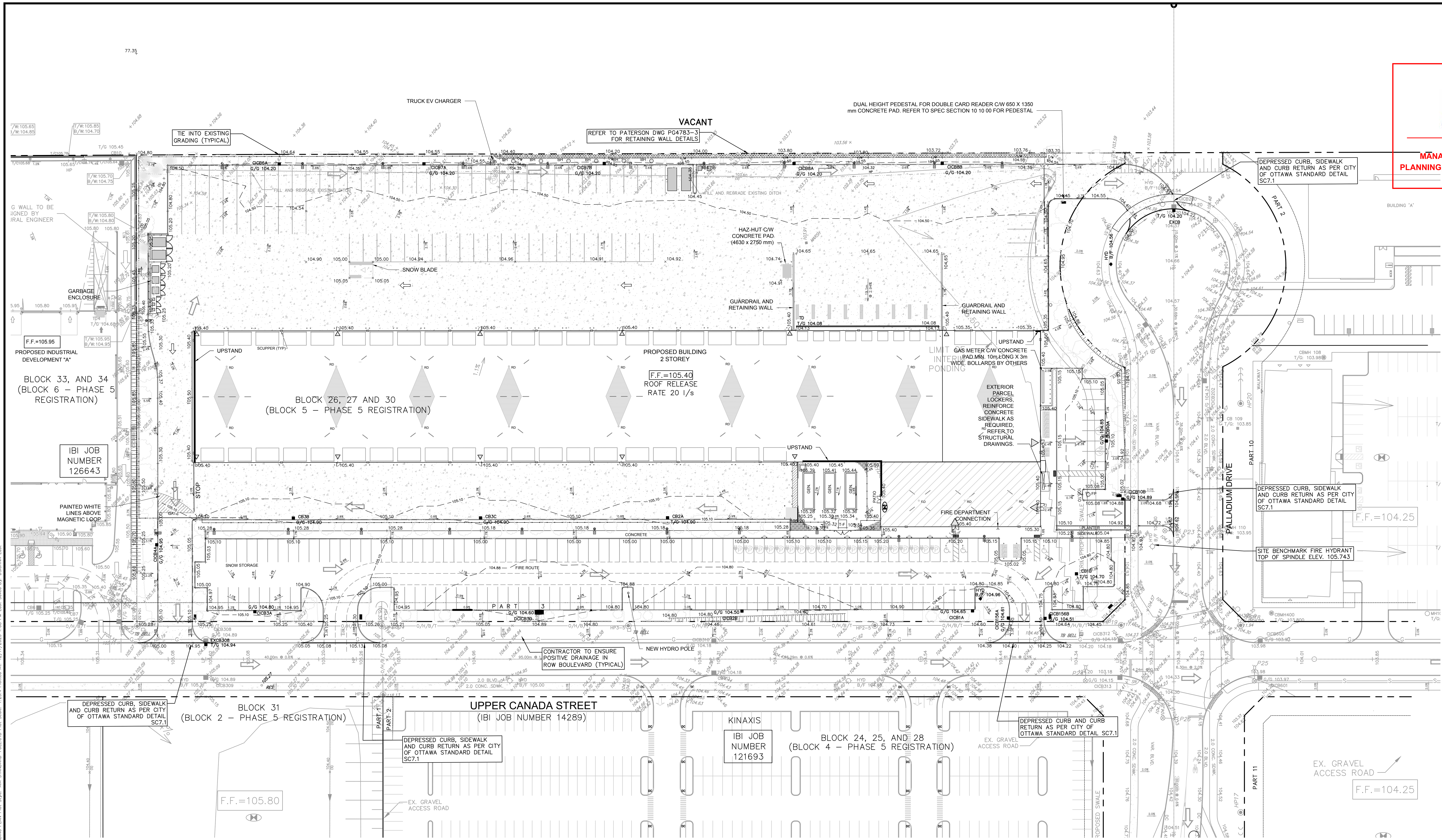
Drawing Title
GENERAL NOTES, LEGEND AND CB DATA TABLE

Scale: N.T.S.

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

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

J:\123987_KNMPurolator\7.0_Production\7.03_Design\04_Civil\Sheets\C-010.dwg Layout Name: C-010 GENERAL NOTES, LEGEND AND CB DATA TABLE Plotted At: 12/11/2023 12:06 PM Last Saved By: DSURNA Last Saved At: Dec. 5, 23



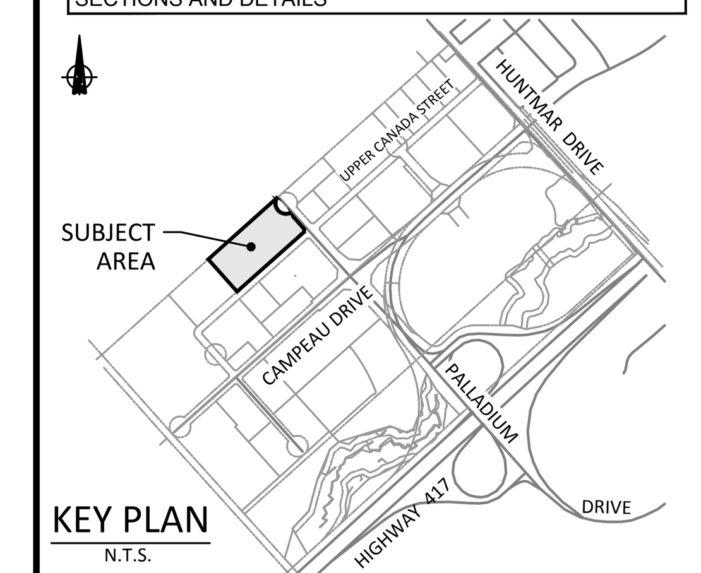
NOTES:

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

AHamlin
ALLISON HAMLIN
MANAGER (A), DEVELOPMENT REVIEW WEST
PLANNING, REAL ESTATE & ECONOMIC DEVELOPMENT DEPARTMENT, CITY OF OTTAWA

APPROVED
By Allison Hamlin at 11:41 am, Jan 17, 2024

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



KEY PLAN
N.T.S.

No.	REVISIONS	By	Date
14			
13			
12	ISSUED FOR SITE PLAN APPROVAL	S.E.L.	2023:12:12
11	REVISED AS PER NEW SITE PLAN	S.E.L.	2023:12:05
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TAGGART REALTY MANAGEMENT

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Project Title
Purolator
DISTRIBUTION KANATA
1400 UPPER CANADA STREET, KANATA, ONTARIO

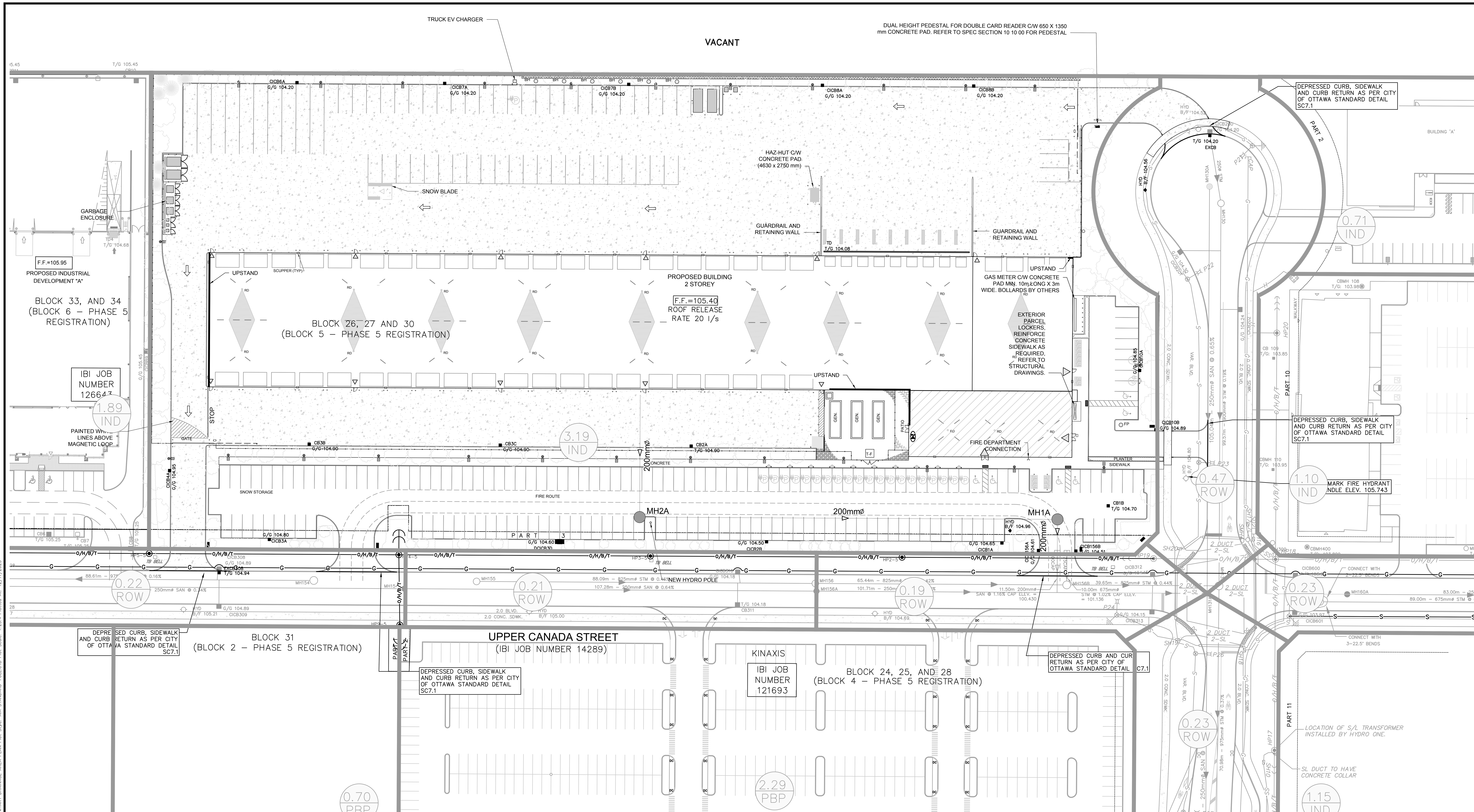
LICENSED PROFESSIONAL ENGINEER
S. E. LABADIE
100214983
2023/12/12
PROVINCE OF ONTARIO

Drawing Title
SITE GRADING PLAN

Scale
1:500

Design	Date
S.E.L.	AUG . 2020
Drawn	Checked
S.E.L./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.

LEGEND :

WH / 1.01 / 0.0 — AREA NUMBER; RUNOFF COEFFICIENT; AREA IN HECTARES

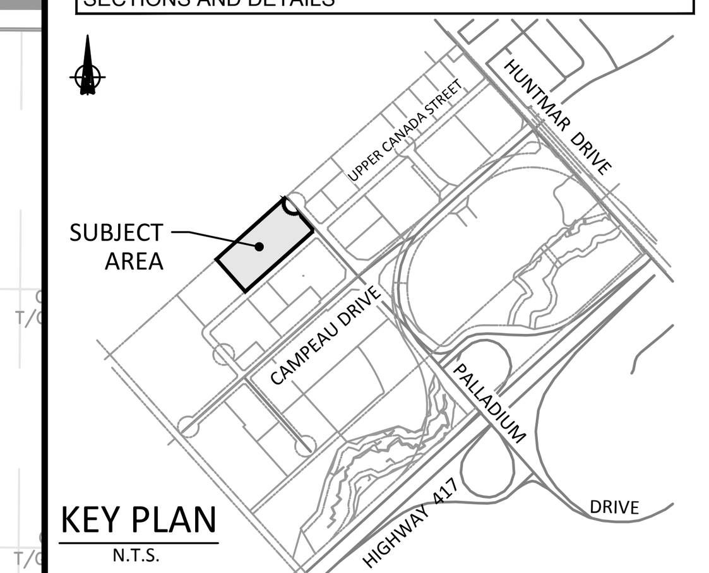
5.14 / PBP — AREA IN HECTARES; LAND USE TYPE

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



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1400 UPPER CANADA STREET,

LICENSED PROFESSIONAL ENGINEER
S. E. LABADIE
100214983
2023/12/12
PROVINCE OF ONTARIO

Drawing Title
SANITARY DRAINAGE AREA PLAN

Scale
1:500

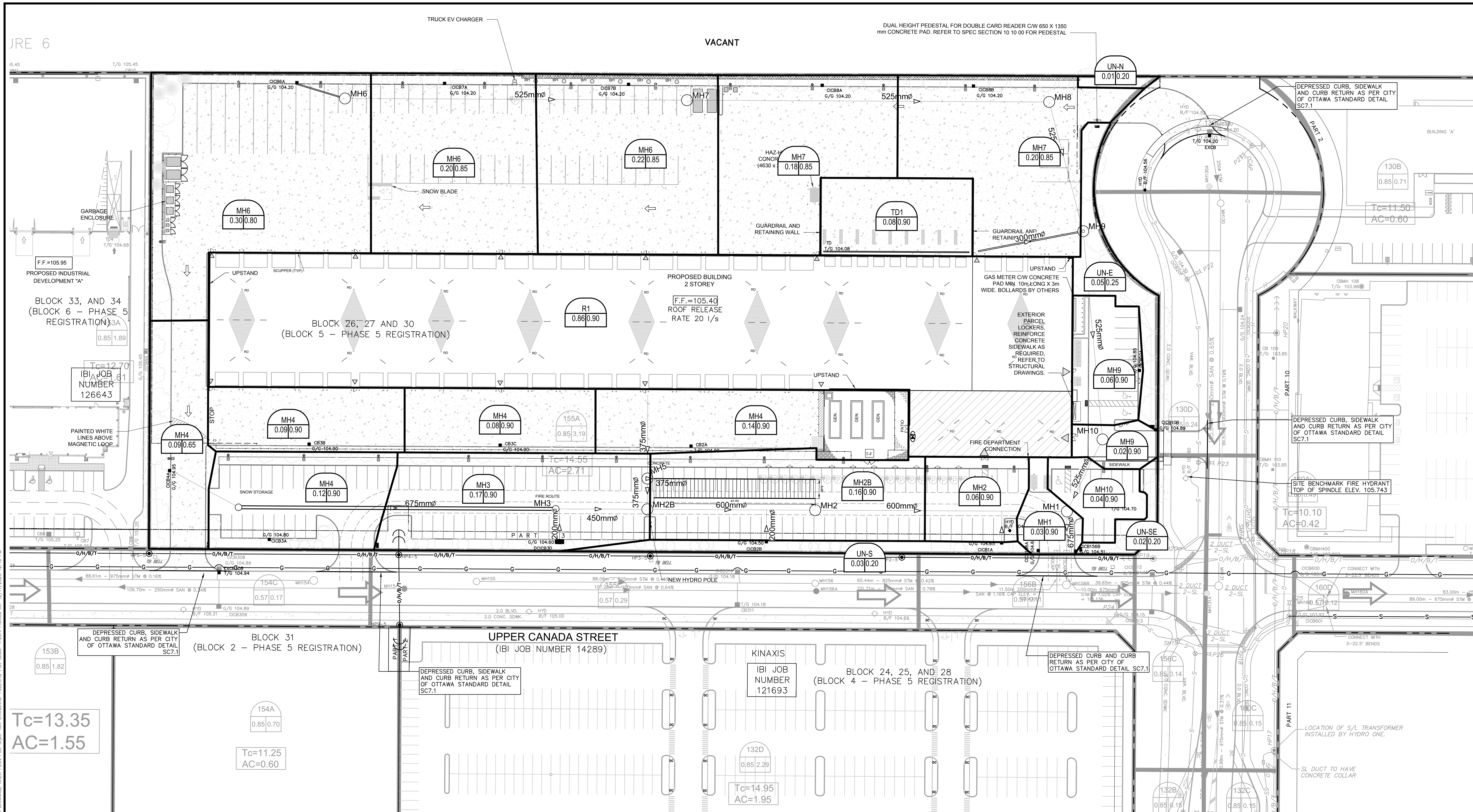
Design	Date
S.E.L.	AUG . 2020
Drawn	Checked
S.E.L./D.P.S.	T.R.B.
Project No.	Drawing No.
123987	C-400

CITY PLAN No. 18260

CITY FILE No. D07-12-20-0125

AHamlin
ALLISON HAMLIN
MANAGER (A), DEVELOPMENT REVIEW WEST
PLANNING, REAL ESTATE & ECONOMIC DEVELOPMENT DEPARTMENT, CITY OF OTTAWA

APPROVED
By Allison Hamlin at 11:41 am, Jan 17, 2024



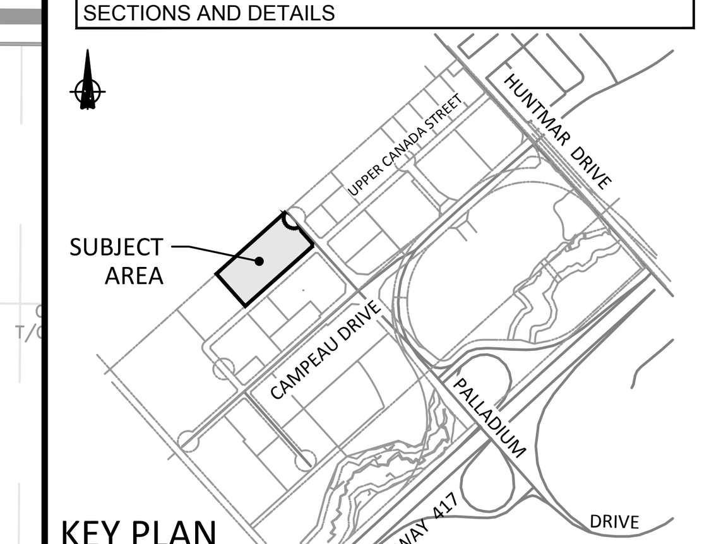
NOTES:

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

LEGEND :

- AREA NUMBER
- RUNOFF COEFFICIENT
- AREA IN HECTARES
- EXISTING AREA NUMBER
- EXISTING AREA IN HECTARES
- EXISTING RUNOFF COEFFICIENT
- Tc=11.70 — ESTIMATED TIME OF CONCENTRATION IN MINUTES
- AC=1.23 — 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



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Purolator
DISTRIBUTION KANATA
1400 UPPER CANADA STREET,

LICENSED PROFESSIONAL ENGINEER
S. E. LABADIE
100214983
2023/12/12
PROVINCE OF ONTARIO

Drawing Title
STORM DRAINAGE AREA PLAN

Scale
1:500

Design	Date
S.E.L.	AUG . 2020

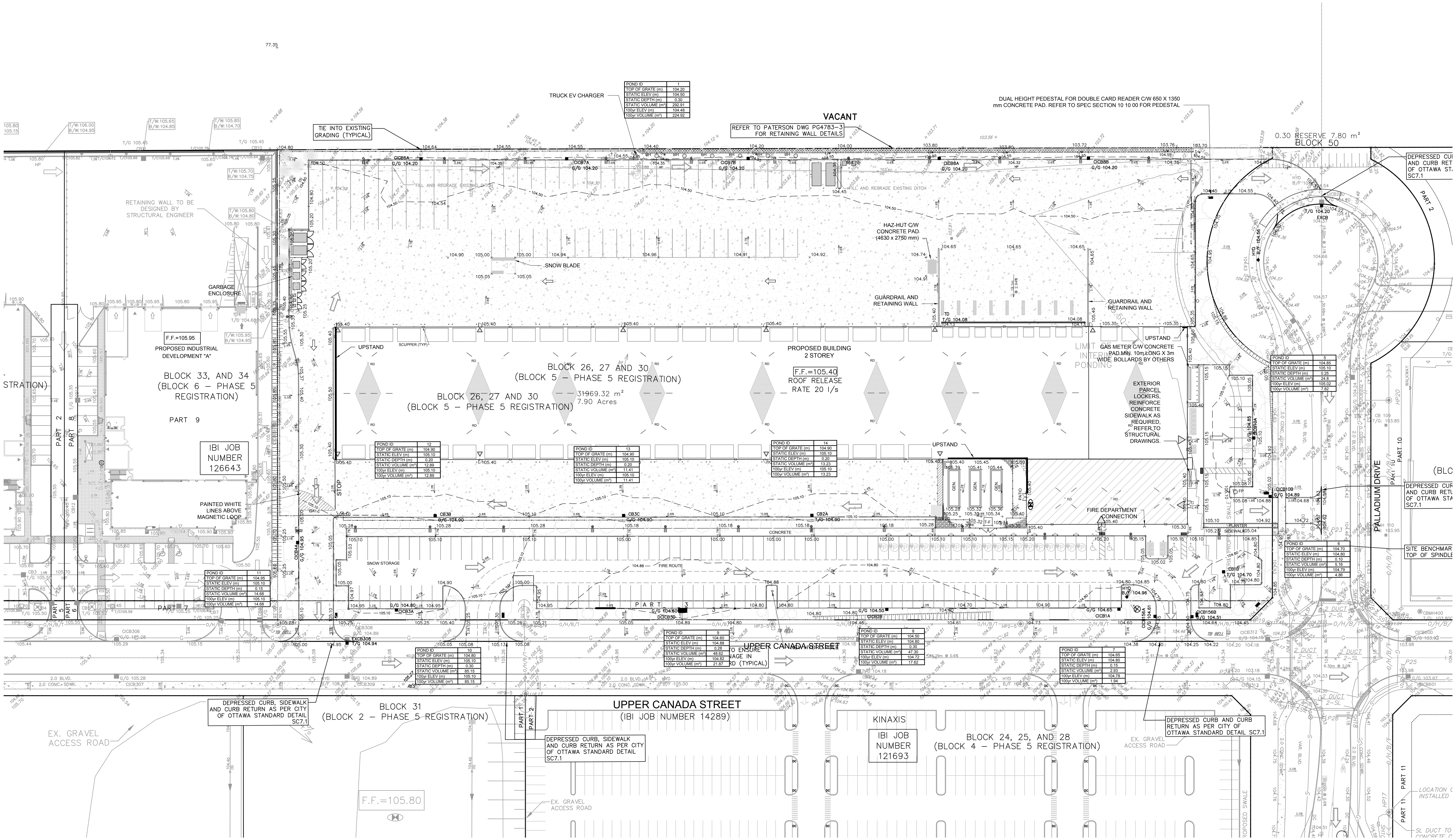
Drawn	Checked
S.E.L./D.P.S.	T.R.B.

Project No.	Drawing No.
123987	C-500

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

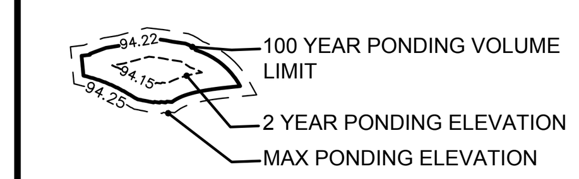
APPROVED
By Allison Hamlin at 11:41 am, Jan 17, 2024

AHamlin
ALLISON HAMLIN
MANAGER (A), DEVELOPMENT REVIEW WEST
PLANNING, REAL ESTATE & ECONOMIC DEVELOPMENT DEPARTMENT, CITY OF OTTAWA

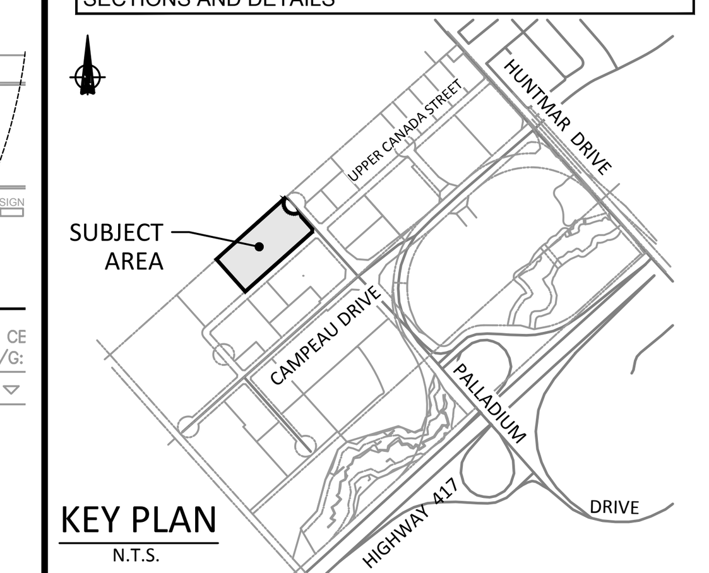


NOTES:

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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8	REVISED AS PER NEW SITE PLAN	S.E.L.	2023:09:29
7	REVISED AS PER NEW SITE PLAN	S.E.L.	2023:09:19
6	ADD 2 YR PONDING ELEVATIONS	S.E.L.	2023:09:01
5	REVISED AS PER NEW SITE PLAN	S.E.L.	2023:06:21
4	ISSUED FOR 60% SUBMISSION	T.R.B.	2021:01:15
3	REVISED AS PER CITY COMMENTS	T.R.B.	2020:12:18
2	ISSUED FOR 30% REVIEW	T.R.B.	2020:11:13
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TAGGART REALTY MANAGEMENT

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ibigroup.com

Project Title

Purolator
DISTRIBUTION KANATA
1400 UPPER CANADA STREET,
KANATA, ONTARIO

LICENSED PROFESSIONAL ENGINEER
S. E. LABADIE
100214983
2023/12/12
PROVINCE OF ONTARIO

Drawing Title

PONDING PLAN

Scale 1:500

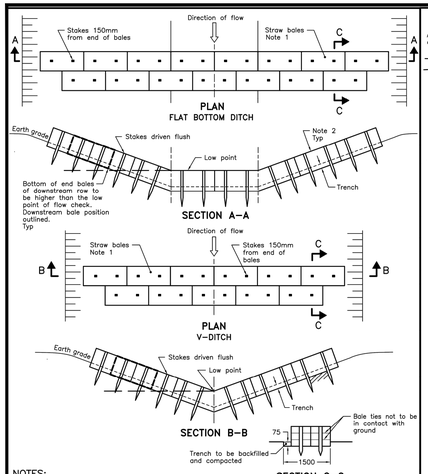
Design	S.E.L.	Date	AUG . 2020
Drawn	S.E.L./D.P.S.	Checked	T.R.B.
Project No.	123987	Drawing No.	C-600

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

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

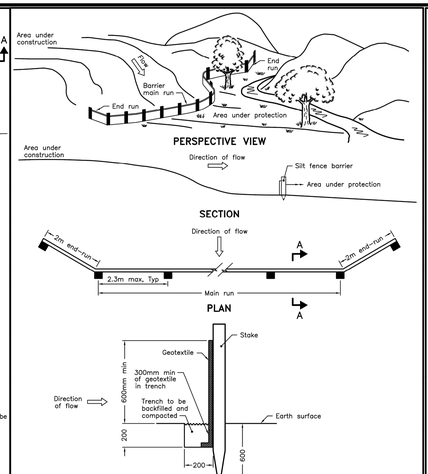
APPROVED
By Allison Hamlin at 11:42 am, Jan 17, 2024

AHamlin
ALLISON HAMLIN
MANAGER (A), DEVELOPMENT REVIEW WEST
PLANNING, REAL ESTATE & ECONOMIC DEVELOPMENT
DEPARTMENT, CITY OF OTTAWA



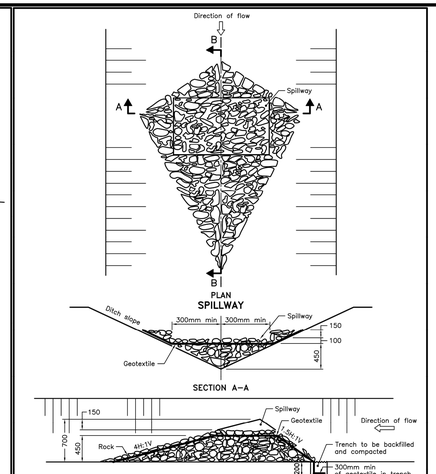
NOTES:
1 Number of bales varies to suit ditch.
2 Straw bales to be butted tightly against adjoining bales and shaped to conform to the sides of the ditch to prevent water flow through barrier.
A All dimensions are in millimetres unless otherwise shown.

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



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

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		

Allison Hamlin
ALLISON HAMLIN
MANAGER (A), DEVELOPMENT REVIEW WEST
PLANNING, REAL ESTATE & ECONOMIC DEVELOPMENT
DEPARTMENT, CITY OF OTTAWA

APPROVED
By Allison Hamlin at 11:42 am, Jan 17, 2024

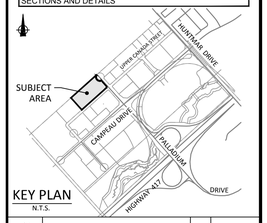
NOTES:

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 (7.0 × 15.0)

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



KEY PLAN
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LICENCED PROFESSIONAL ENGINEER
S. E. LABADIE
100214983
2023/12/12
PROVINCE OF ONTARIO

Drawing Title
EROSION AND SEDIMENTATION CONTROL PLAN

Scale

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

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

MH6 (1200ø) T/G 104.39 INV IN: 103.169SW INV OUT: 102.400NE
13.06m 250mmø STM @ 1.00%
3.7m 250mmø STM @ 1.00%
TRUCK EV CHARGER
VACANT
3.7m 200mmø STM @ 1.00%
DUAL HEIGHT PEDESTAL FOR DOUBLE CARD READER C/W 650 X 1350 mm CONCRETE PAD. REFER TO SPEC SECTION 10 10 00 FOR PEDESTAL
MH8 (1200ø) T/G 104.36 INV IN: 102.013SW INV OUT: 101.983SE
89.07m – 525mmø STM @ 0.20%
94.32m – 525mmø STM @ 0.20%
MH7 (1200ø) T/G 104.35 INV IN: 102.222SW INV OUT: 102.202NE
HAZ-HUT C/W CONCRETE PAD (4630 x 2750 mm)
SNOW BLADE
GARBAGE ENCLOSURE
GUARDRAIL AND RETAINING WALL
F.F.=105.95
PROPOSED INDUSTRIAL DEVELOPMENT "A"
BLOCK 33, AND 34 (BLOCK 6 – PHASE 5 REGISTRATION)
IBI JOB NUMBER 126643
UPSTAND
SCUPPER (TYP)
PROPOSED BUILDING 2 STOREY
F.F.=105.40
ROOF RELEASE RATE 20 l/s
BLOCK 26, 27 AND 30 (BLOCK 5 – PHASE 5 REGISTRATION)
ROOF DRAINS TO OUTLET THROUGH STORM LEAD
21.79m 375mmø STM @ 1.00% INV IN 103.185
31.84m 200mmø SAN @ 1.50% INV IN 103.200
27.79m 300mmø STM @ 0.35% INV IN 101.950
TRENCH DRAIN TO BE WATT'S DEADLEVEL DX OR EQUIVALENT
FOUNDATION DRAINAGE TO OUTLET THROUGH TRENCH DRAIN LEAD
GAS METER C/W CONCRETE PAD MIN. 10m LONG X 3m WIDE. BOLLARDS BY OTHERS
EXTERIOR PARCEL LOCKERS. REINFORCE CONCRETE SIDEWALK AS REQUIRED, REFER TO STRUCTURAL DRAWINGS.
54.47m – 525mmø STM @ 0.40%
3.02m 375mmø STM @ 1.00%
MH5 (1200ø) T/G 104.97 INV IN: 102.967NW INV OUT: 102.967NE
1.72m 375mmø STM @ 1.00%
50.0m 250mmø STM @ 0.50%
16.2m 250mmø STM @ 1.00%
MH3 (1500ø) T/G 104.77 INV IN: 101.935SW INV OUT: 101.915NE
8.6m 200mmø STM @ 1.00%
200mmø WATER SERVICE OBV=102.93
FIRE DEPARTMENT CONNECTION
8.02m 375mmø STM @ 2.00% OVERFLOW PIPE
20.03m 200mmø STM @ 1.00%
16.2m 200mmø STM @ 1.00%
8.0m 200mmø STM @ 1.00%
23.86m – 450mmø STM @ 0.20%
82.59m – 675mmø STM @ 0.20%
43.73m – 600mmø STM @ 0.45%
65.55m – 600mmø STM @ 0.45%
108.78m – 200mmø SAN @ 1.40%
150mmø WATERMAIN
7.92m 200mmø STM @ 1.00%
7.9m 200mmø STM @ 1.00%
ICD=64.5L/s
ICD=46.5L/s
ICD=51L/s
ICD=6L/s
INFILTRATION GALLERY, SEE DRAWING C-010 FOR MORE INFORMATION
NEW HYDRO POLE
MH2 (1200ø) T/G 104.81 INV IN: 101.616SW INV OUT: 101.596NE
MH2A (1200ø) T/G 104.86 INV IN: 102.722NW INV OUT: 102.503NE
MH2B (1200ø) T/G 104.89 INV IN: 101.867SW INV OUT: 101.182NW INV OUT: 101.813NE
MH1A (1200ø) T/G 104.80 INV IN: 100.980SW INV OUT: 100.524SE
7.2m 200mmø STM @ 1.00%
34.79m 525mmø STM @ 0.30%
MH9 (1200ø) T/G 105.23 INV IN: 101.879NW INV IN: 101.853SW INV OUT: 101.765SE
1.9m 200mmø STM @ 1.00%
1.5m 200mmø STM @ 1.00%
Q=16L/s
DEPRESSED CURB, SIDEWALK AND CURB RETURN AS PER CITY OF OTTAWA STANDARD DETAIL SC7.1
REMOVE EXISTING CICB AND REINSTALL AS A ROAD CB, REPLACE FRAME AND COVER
RELOCATE EXISTING HYDRANT, CONNECTION TO EXISTING BY CITY FORCES, MAY NEED TO COORDINATE RELOCATION OF SL DUCT.
ROAD CUT TO BE REINSTATED AS PER DETAIL R–10
MH10 (1200ø) T/G 105.10 INV IN: 101.547NW INV OUT: 101.517S
SITE BENCHMARK FIRE HYDRANT TOP OF SPINDLE ELEV: 105.743
20.93m 525mmø STM @ 0.60%
ICD=11L/s
MH1 (1500ø) T/G 104.90 INV IN: 101.391N INV IN: 101.301SW INV OUT: 101.241SE
8.14m 675mmø STM @ 1.02% INV STUB 101.138
8.47m 200mmø SAN @ 1.16% INV STUB 100.430
REMOVE EXISTING CAP AND CONNECT TO EXISTING WATERMAIN (CITY FORCES)
DEPRESSED CURB AND CURB RETURN AS PER CITY OF OTTAWA STANDARD DETAIL SC7.1
DEPRESSED CURB, SIDEWALK AND CURB RETURN AS PER CITY OF OTTAWA STANDARD DETAIL SC7.1
REMOVE EXISTING CICB AND REINSTALL AS A ROAD CB, REPLACE FRAME AND COVER
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)
PAINTED WHITE LINES ABOVE MAGNETIC LOOP
STOP
GATE
PART 1
PART 2
PART 10
PART 11
CB3B
CB3C
CB3A
CB2A
CB1B
CICB306
CICB308
CICB307
CICB309
CICB310
CICB311
CICB156
CICB88
CICB8A
CICB7A
CICB7B
CICB8A
CICB8B
CB1
CB7
CB8
CB9
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