

By Derrick Moodie at 12:08 pm, Feb 28, 2019

DERRICK MOODIE
MANAGER

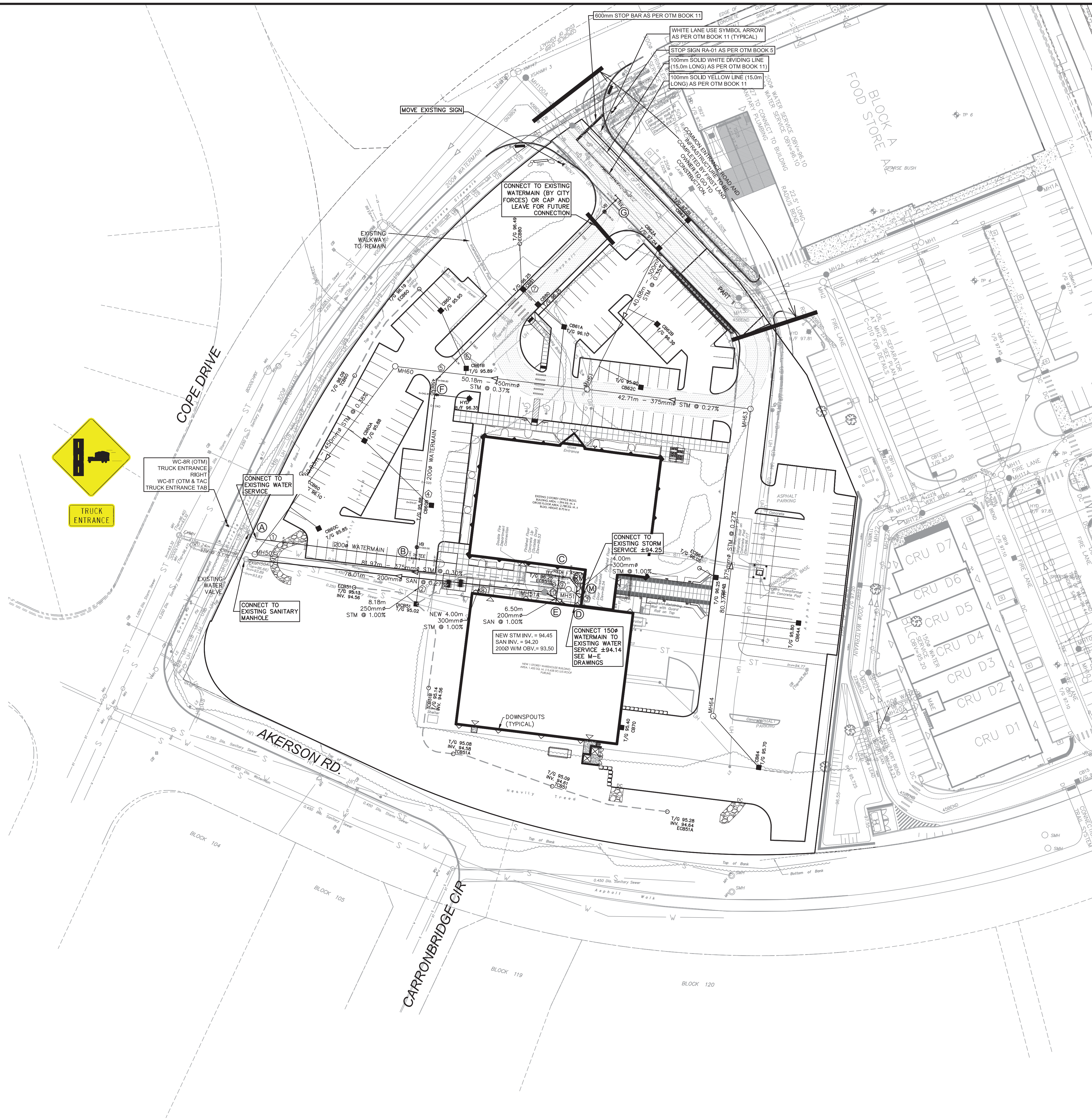
**PLANNING, INFRASTRUCTURE & ECONOMIC
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA**

SANITARY SEWER STRUCTURE TABLE				
NAME	RIM ELEV.	INVERT IN	INVERT OUT	DESCRIPTION
EXMH50A	96.16	<i>E93.890</i>	<i>W93.830</i>	EXISTING MANHOLE
MH51A	96.29	SE94.135	W94.101	1200 DIA. OPSD 701.010

STORM SEWER STRUCTURE TABLE				
NAME	RIM ELEV.	INVERT IN	INVERT OUT	DESCRIPTION
EXMH	96.40	EG3.550		1200 DIA. OPSD 701.010
MH50	96.03	NE93.700 EG3.775	W93.625	1200 DIA. OPSD 701.010
MH51	96.28	SE94.210	W94.021	1200 DIA. OPSD 701.010
MH60	96.13	EG3.991	SW93.931	1200 DIA. OPSD 701.010
MH61	96.11	NE94.327 EG4.251	W94.177	1200 DIA. OPSD 701.010 C/W TEMPEST MHF ICD 25L/s @ 1.67 HEAD
MH63	96.62	S94.427	W94.366	1200 DIA. OPSD 701.010 C/W TEMPEST MHF ICD 44L/s @ 1.44 HEAD
MH64	95.96	SE94.730	NA.644	1200 DIA. OPSD 701.010

WATERMAIN SCHEDULE					
	STATION	DESCRIPTION	FINISHED GRADE	TOP OF WATERMAIN	AS-BUILT WATERMAIN
A	+0+00.00	CONNECT TO EXISTING	95.88	93.40	
B	+0+041.60	TEE 200#	96.09	93.69	
C	+0+079.10	TEE 200#	96.30	93.55	
	+0+080.50	200#-150# RED	96.30	93.60	
	+0+081.90	150# 45' BEND	96.30	93.65	
	+0+084.90	150# 45' BEND	96.31	93.70	
D	+0+090.00	BUILDING CONNECTION	96.35	93.75	
C	+0+000.00	TEE 200#	96.30	93.55	
E	+0+007.20	BUILDING CONNECTION	96.35	93.50	
B	+0+000.00	TEE	96.09	93.69	
	+0+003.00	V&B	96.04	93.64	
F	+0+043.00	150# HYDRANT	96.15	93.50	
	+0+043.90	45' BEND	96.07	93.53	
	+0+105.60	V&B	97.17	94.77	
G	+0+110.60	TEE	97.38	94.98	

CROSSING SCHEDULE	
①	450# STM 0.27m CLEARANCE OVER 200# WM.
②	200# CB LEAD 0.17m CLEARANCE OVER 200# SAN
③	150# WM 0.50m CLEARANCE UNDER 300 STM.
④	200# CB LEAD 1.02m CLEARANCE OVER 200# WM.
⑤	450# STM 0.50m CLEARANCE OVER 200# WM.
⑥	200# CB LEAD 0.69m CLEARANCE OVER 200# WM.
⑦	200# CB LEAD 0.64m CLEARANCE OVER 200# WM.
⑧	300# STM 0.18m CLEARANCE OVER 200# WM.
⑨	375# STM 0.5m CLEARANCE OVER 200# WM.
⑩	200# SAN 0.5m CLEARANCE OVER 200# WM.



REVIEWED BY
DEVELOPMENT REVIEW SERVICES BRANCH

Signed _____

Date 2018

Plan Number _____

NOTE : ALL SNOW TO BE REMOVED FROM SITE.
TEMPORARY ONSITE STOCKPILING LOCATION
PER ARCH PLAN.



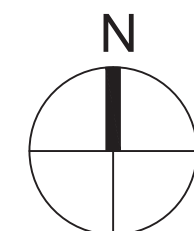
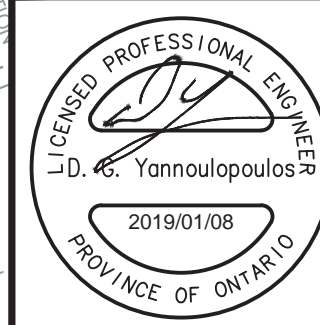
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5	PAVEMENT MARKINGS AT INTERSECTION	DGY	2019:02:01
4	REVISED FOR CITY COMMENTS	DGY	2019:02:01
3	REVISED WATERMAIN	DGY	2019:01:01
2	REVISED PER NEW SITE PLAN	DGY	2018:12:11
1	ISSUED FOR CITY APPROVAL	DGY	2018:09:11
No.	REVISIONS	By	Date

CCR PROCESS PRODUCTS



Project Title	
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CCR WAREHOUSE ADDITION
& OFFICE RENOVATION
20 COPE DRIVE, KANATA, ONTARIO



Drawing Title

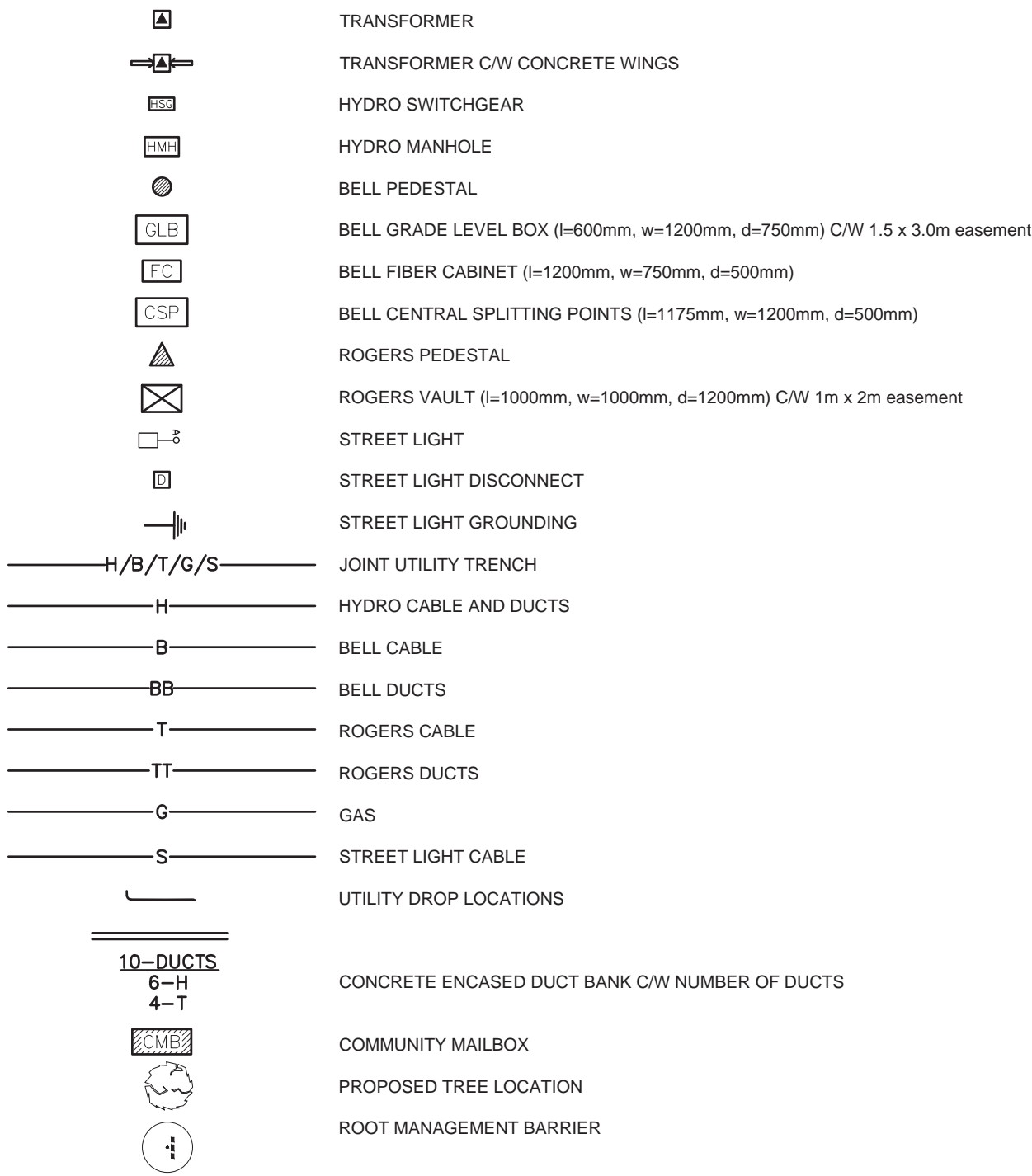
GENERAL PLAN
OF SERVICES

Scale 1 : 500

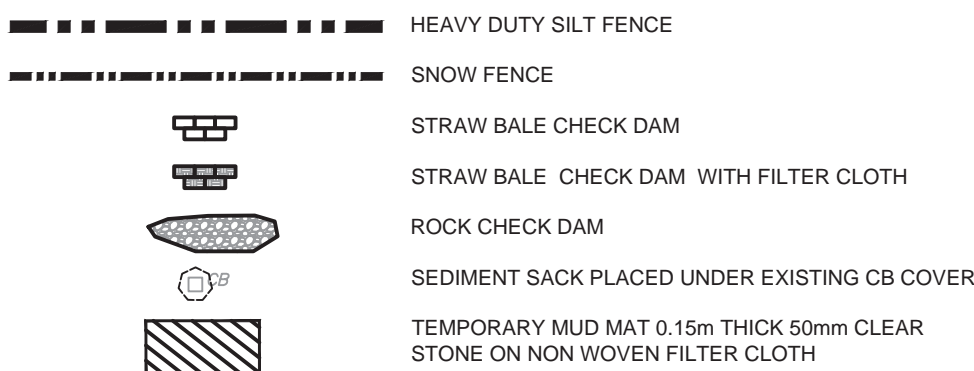
Design ST	Date SEPT 2018
Drawn ST	Checked DGY
Project No. 117308	Drawing No. C-001

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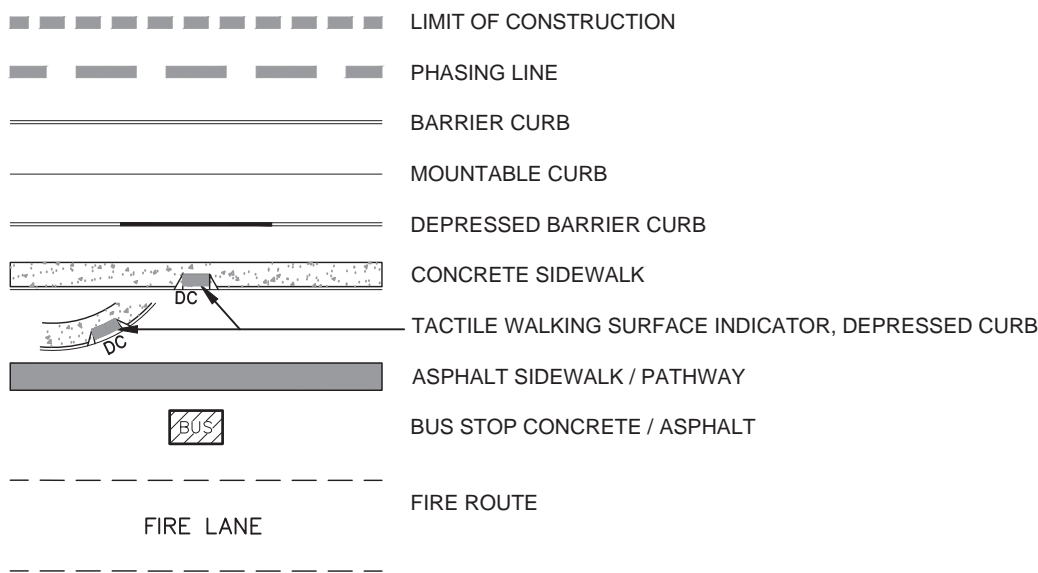
UTILITY LEGEND



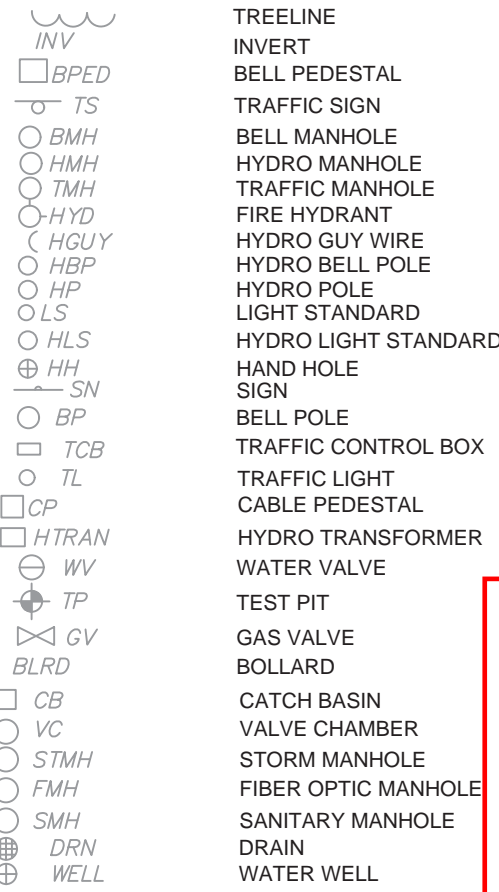
SEDIMENT EROSION LEGEND



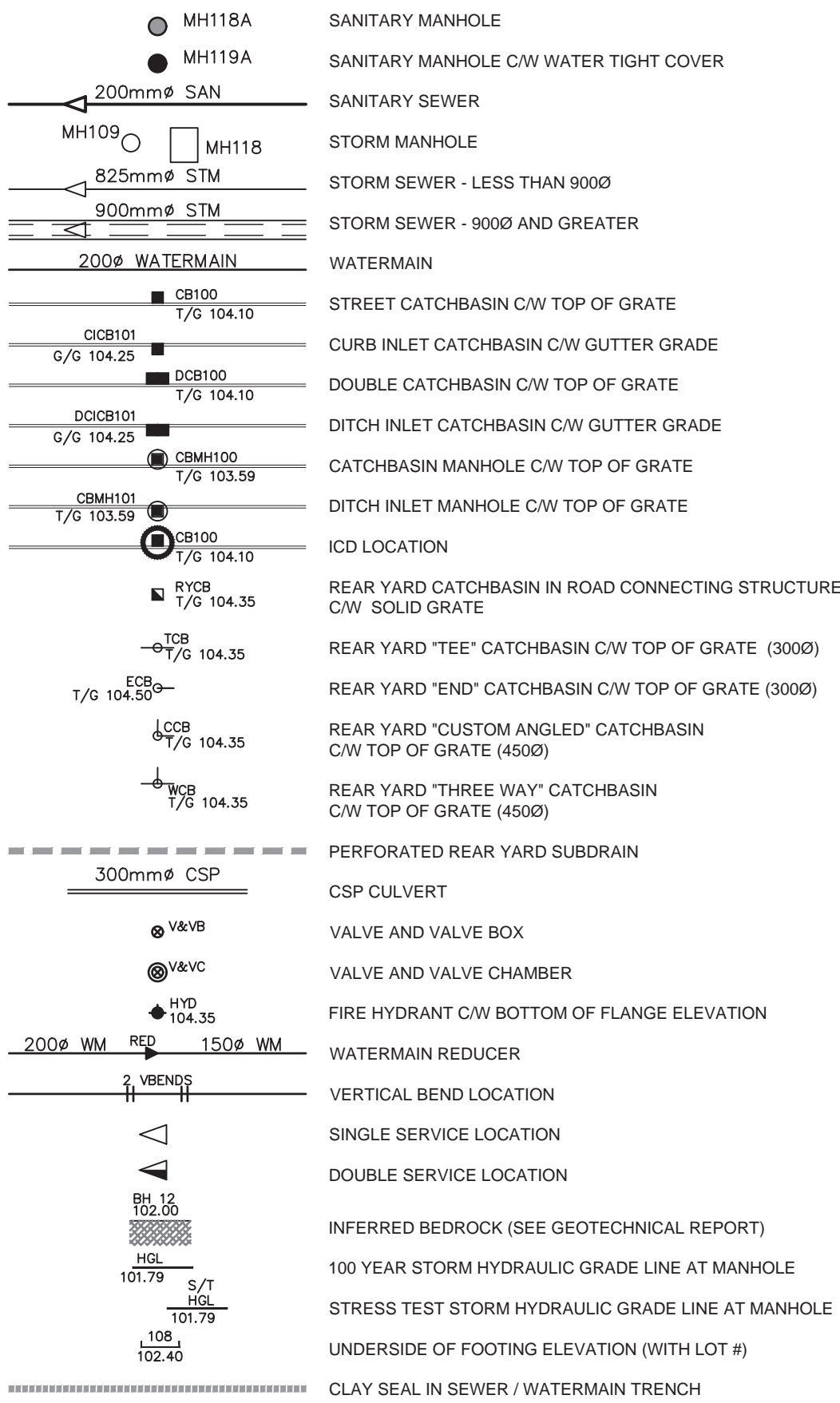
GENERAL LEGEND



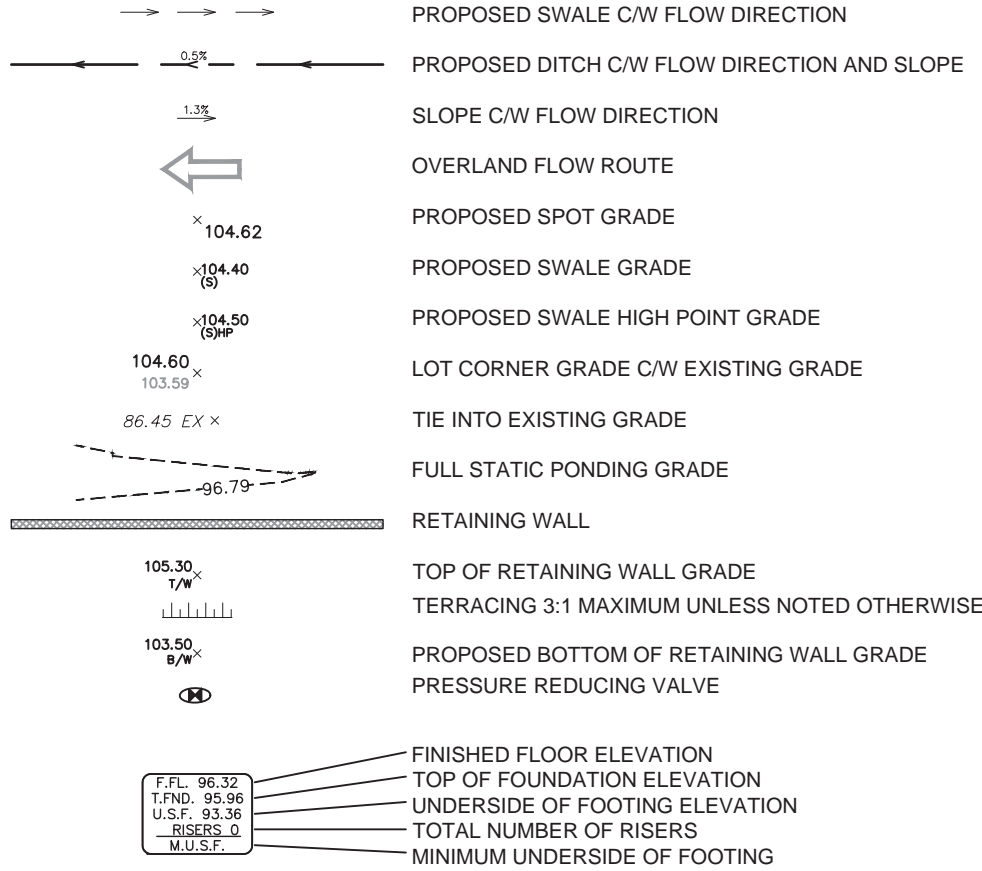
STANTEC GEOMATICS LTD. SURVEY LEGEND



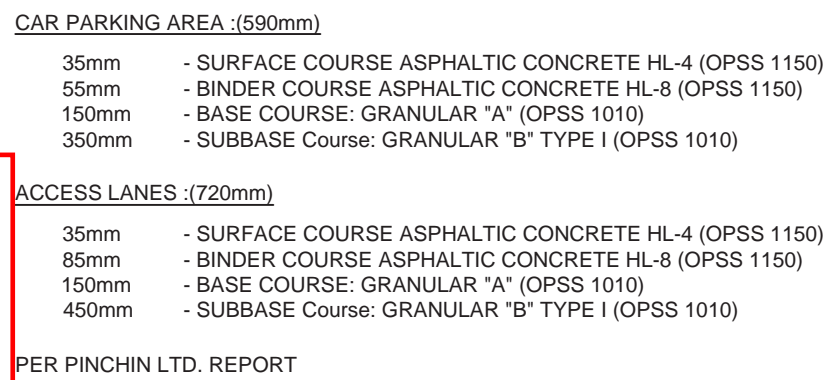
SERVICING LEGEND



GRADING LEGEND



ROADWAY STRUCTURE:



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 (DRAWING NO A0.1) BY A+ ARCHITECTURE INC.
- 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 COPE DRIVE.
- 1.14 FOR GEOTECHNICAL REPORT REFER TO PINCHIN LTD. REPORT .
- 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.
- 1.24 SNOW TO BE REMOVED OFF SITE.

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, 450Ø AND LARGER CL-1000, 825Ø AND LARGER CL-650.
- 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, 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 150mm Ø SOCK WRAPPED PERFORATED PVC SUBDRAINS TO BE INSTALLED AT ALL CB'S. SUBDRAINS TO BE 3m LONG (EACH SIDE ALONG CURB AND ALL FOUR SIDES ORTHOGONALLY OUT FOR ALL SUMP CB'S) AND DISCHARGE INTO CB.
- 3.7 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.
- 3.8 CONNECTION TO THE EXISTING STORM SEWER TO BE INCLUDED IN THE COST FOR STORM SEWER INSTALLATION. THIS INCLUDES REINSTATEMENT OF ROAD CUT TO CITY STANDARDS.
- 3.9 CONTRACTOR TO PROVIDE IPEX TEMPEST MHF ICD'S SHOP DRAWINGS, OR EQUIVALENT, FOR ENGINEERS REVIEW PRIOR TO ORDERING ICD'S.
- 3.10 ALL LEADS FOR CB'S CONNECTED TO MAIN SHALL BE 200mmØ PVC DR35 @ MIN 1% SLOPE UNLESS NOTED OTHERWISE.

4.0 WATER

- 4.1 ALL WATERMANS TO BE PVC DR 18, WITH MINIMUM COVER OF 2.4m AND INSTALLED PER CITY OF OTTAWA STANDARDS. ALL WATER SERVICES ARE TO BE AS NOTED.
- 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 WATERMANS AND DISINFECT AND CHLORINATE ALL WATERMANS 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

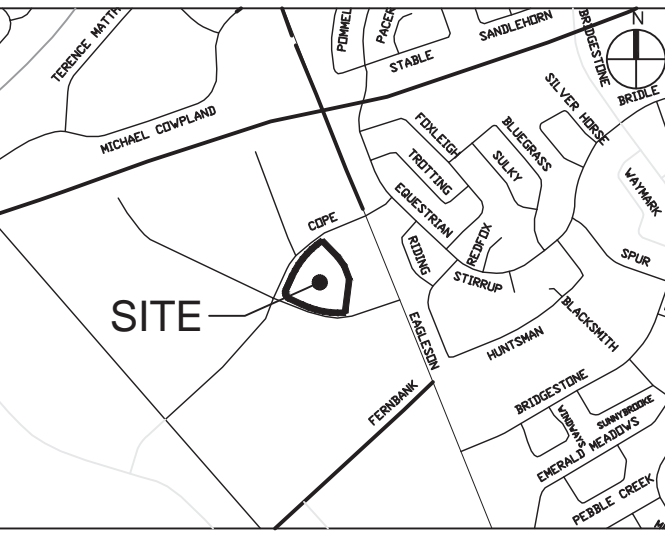
- 5.1 CONTRACTOR TO REINSTATE ROAD CUTS PER CITY OF OTTAWA STANDARD R-10.
- 5.2 THE CONTRACTOR SHALL PREPARE A TRAFFIC MANAGEMENT PLAN FOR REVIEW AND APPROVAL BY THE CITY OF OTTAWA. CONTRACTOR TO MAINTAIN TRAFFIC FLOW DURING THE ENTIRE CONSTRUCTION PERIOD. MAINTENANCE OF ROAD CUTS SHALL BE THE RESPONSIBILITY 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 GEOTECHNICAL 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 GEOTECHNICAL 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 THICKNESS) FOR HEAVY DUTY AND LIGHT DUTY AREAS TO BE AS SPECIFIED IN THE GEOTECHNICAL REPORT AND SHOWN ON THE PLANS.

REVIEWED BY
DEVELOPMENT REVIEW SERVICES BRANCH

Signed _____

Date _____ 2018

Plan Number _____



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4	REVISED FOR CITY COMMENTS	DGY	2019-02-01
3	REVISED WATERMAIN	DGY	2019-01-08
2	REVISED PER NEW SITE PLAN	DGY	2018-12-14
1	ISSUED FOR CITY APPROVAL	DGY	2018-09-17
No.	REVISIONS	By	Date

CCR PROCESS PRODUCTS



Project Title
**CCR WAREHOUSE ADDITION
& OFFICE RENOVATION**
20 COPE DRIVE, KANATA, ONTARIO



Drawing Title

**GENERAL NOTES,
LEGEND AND
CB DATA TABLE**

Scale
N.T.S.

Design
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Date
APR 2018

Drawn
ST
Checked
DGY

Project No.
117308
Drawing No.
010

Revision: 2018-09-17

APPROVED
By Derrick Moodie at 12:09 pm, Feb 28, 2019

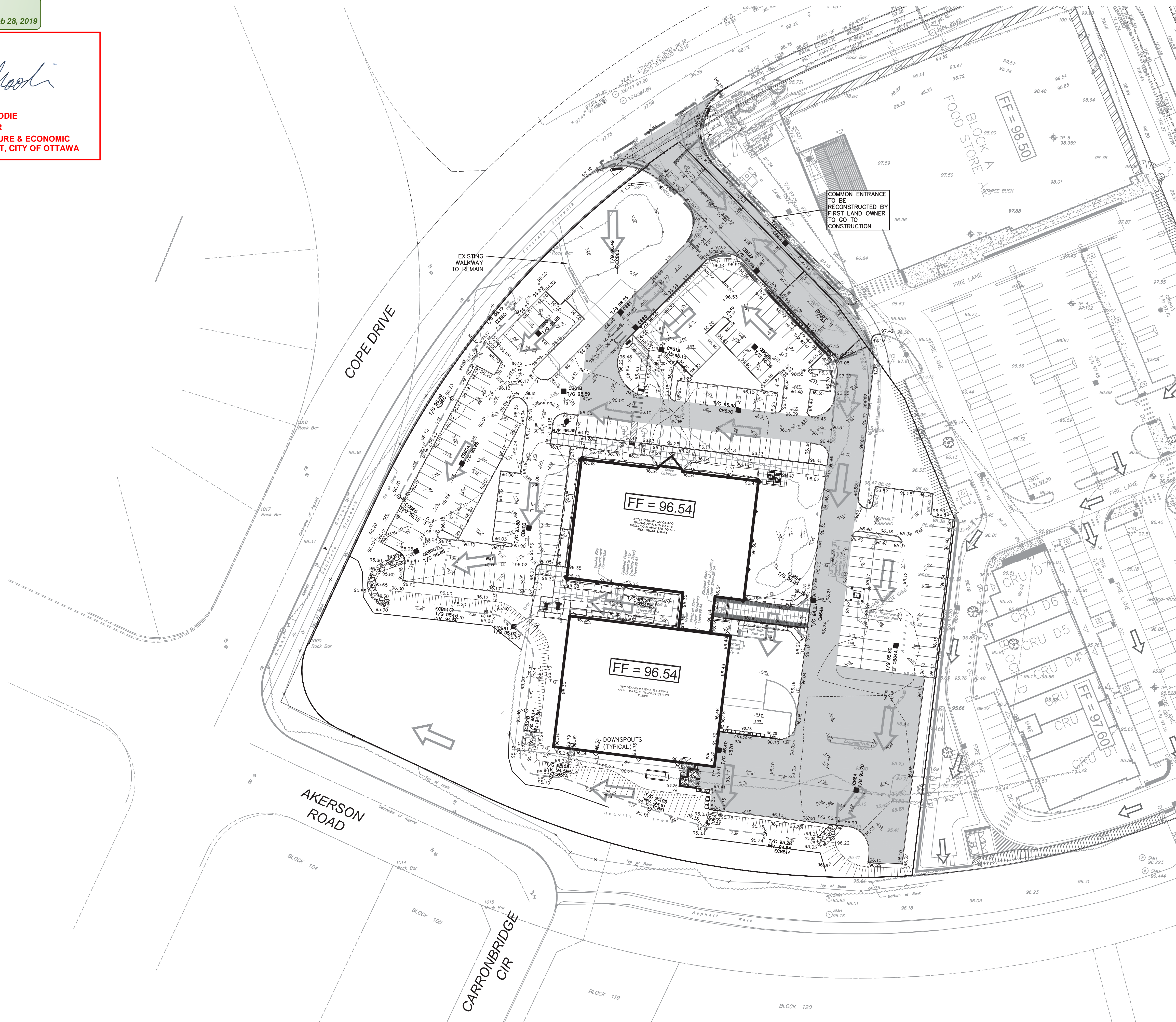
Derrick Moodie

**DERRICK MOODIE
MANAGER
PLANNING, INFRASTRUCTURE & ECONOMIC
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA**

By Derrick Moodie at 12:09 pm, Feb 28, 2019

DERRICK MOODIE
MANAGER

**PLANNING, INFRASTRUCTURE & ECONOMIC
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA**



REVIEWED BY
DEVELOPMENT REVIEW SERVICES BRANCH

Signed _____

Date _____ 2018

Plan Number _____

LEGEND

ACCESS LANES
(REFER TO 117308-010 FOR
ROADWAY STRUCTURE)

NOTE : ALL SNOW TO BE REMOVED FROM SITE.
TEMPORARY ONSITE STOCKPILING LOCATION
PER ARCH PLAN.



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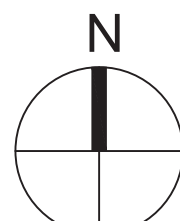
CCR PROCESS PRODUCTS



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

Project Title

CCR WAREHOUSE ADDITION
& OFFICE RENOVATION
20 COPE DRIVE, KANATA, ONTARIO



GRADING PLAN

Scale 1 : 500

Design ST

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ST	Date SEPT 2018
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Project No.

	Drawing No.
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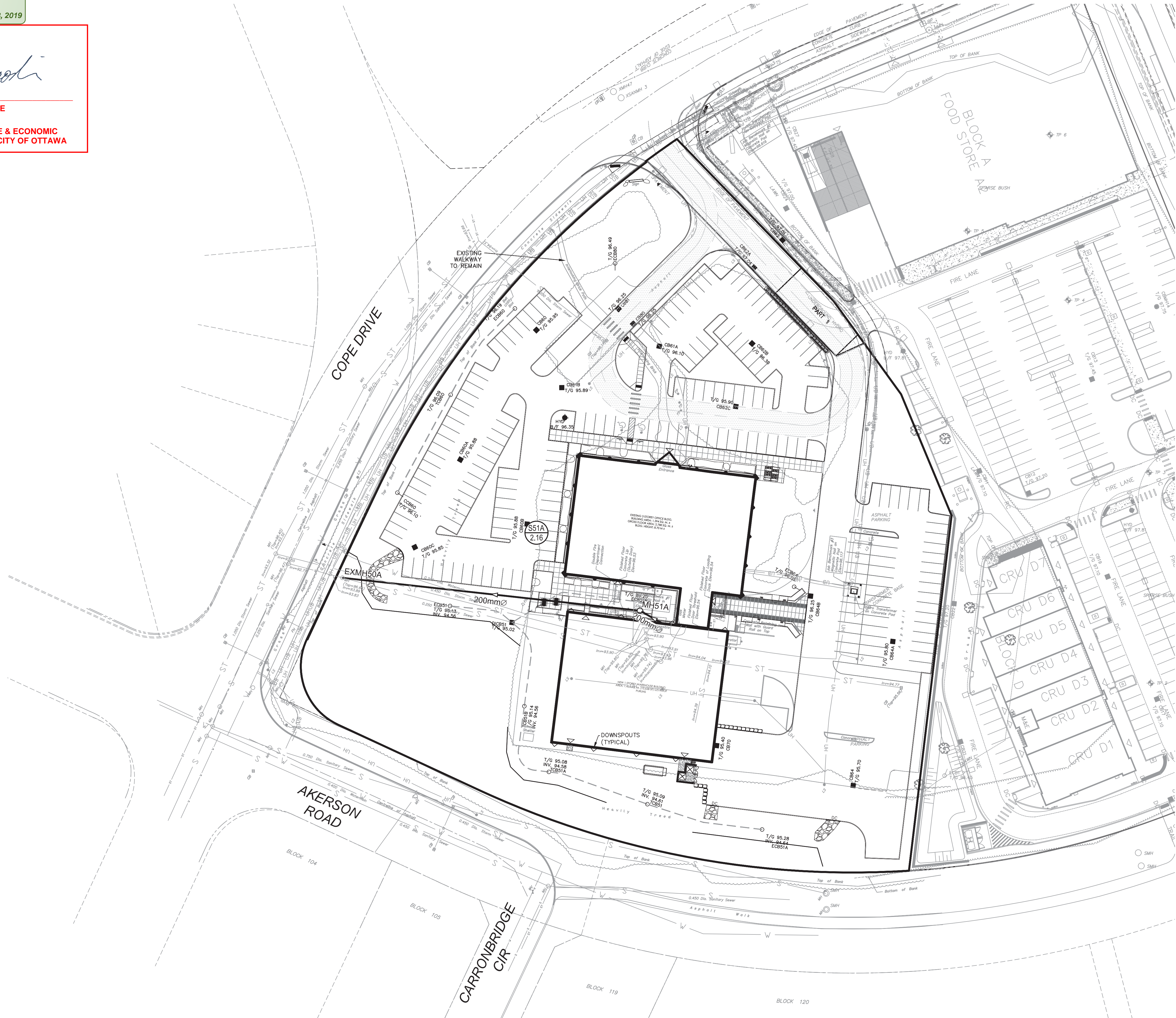
117308

C-200

APPROVED
By Derrick Moodie at 12:10 pm, Feb 28, 2019

Derrick Moodie

DERRICK MOODIE
MANAGER
PLANNING, INFRASTRUCTURE & ECONOMIC
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA



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Signed _____
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Plan Number _____

LEGEND :

- AREA NUMBER
- LAND USE
- AREA IN HECTARES
- AREA NUMBER
- AREA IN HECTARES
- AREA BOUNDARY

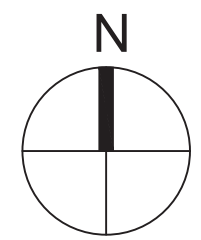
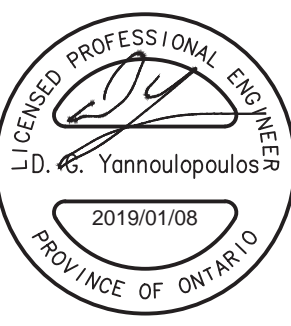


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No.	REVISIONS	By	Date

CCR PROCESS PRODUCTS

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

Project Title
**CCR WAREHOUSE ADDITION
& OFFICE RENOVATION**
20 COPE DRIVE, KANATA, ONTARIO



Drawing Title
**SANITARY DRAINAGE
AREA PLAN**

Scale
1 : 500

Design
ST
Date
SEPT 2018

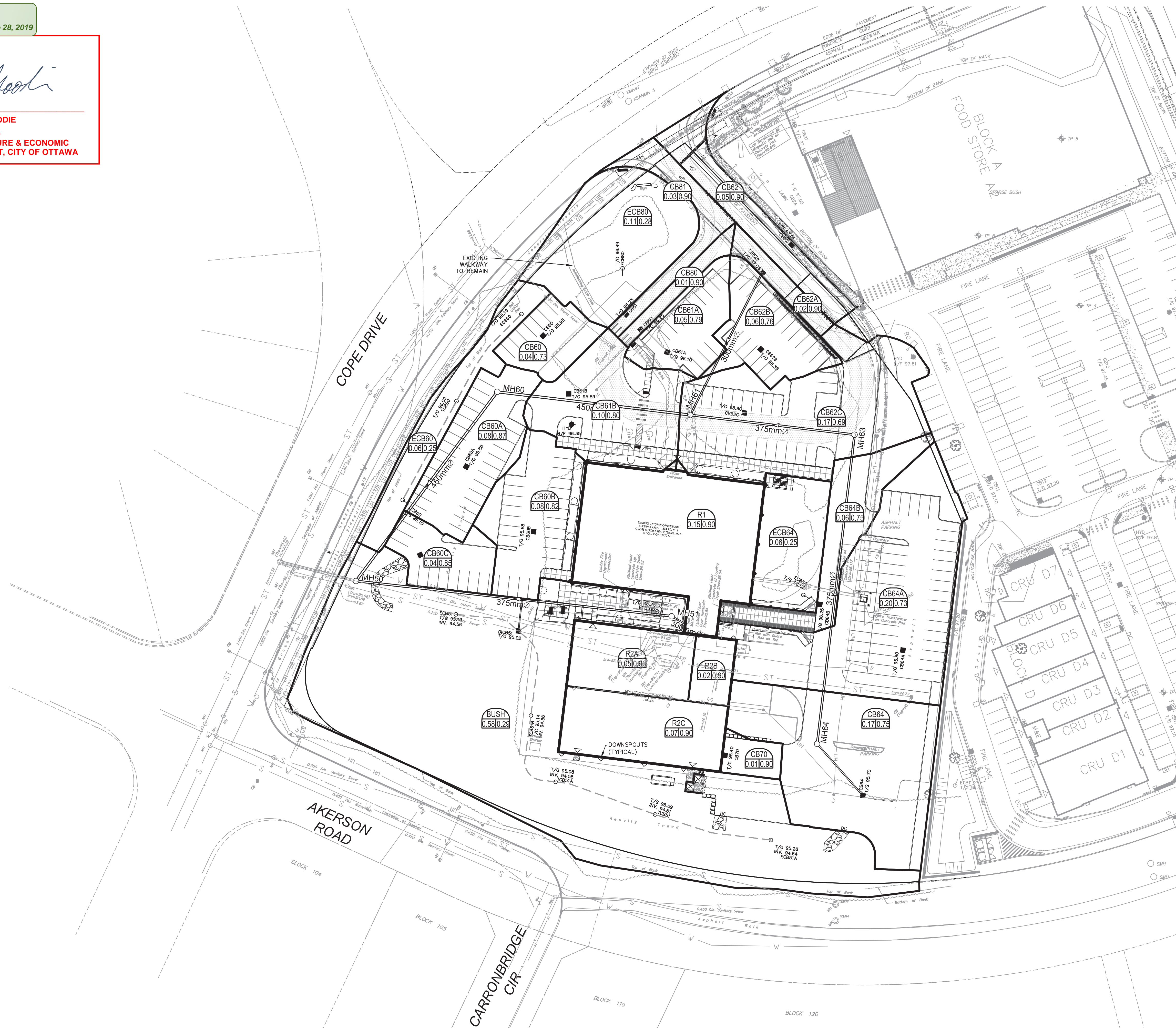
Drawn
ST
Checked
DGY

Project No.
117308
Drawing No.
C-400

By Derrick Moodie at 12:10 pm, Feb 28, 2019

DERRICK MOODIE
MANAGER

**PLANNING, INFRASTRUCTURE & ECONOMIC
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA**



	REVIEWED BY DEVELOPMENT REVIEW SERVICES BRANCH
--	---

Signed _____

Date _____ 2018

Plan Number _____

LEGEND :

Diagram illustrating the components of a CB64B label:

- AREA NUMBER (points to CB64B)
- RUN OFF COEFFICIENT (points to 0.06/0.75)
- AREA IN HECTARES (points to the label)
- AREA BOUNDARY (points to the thick line below)



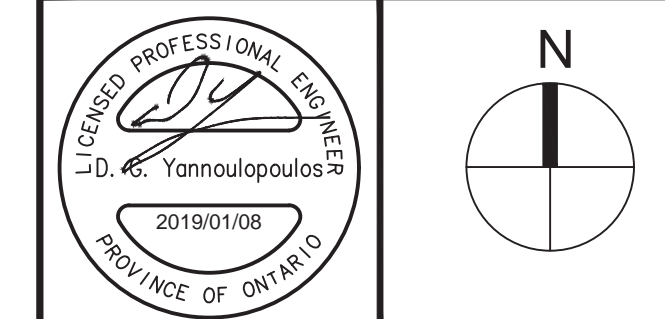
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13			
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10			
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8			
7			
6			
5			
4	REVISED FOR CITY COMMENTS	DGY	2019.08.10
3	REVISED WATERMAIN	DGY	2019.08.10
2	REVISED PER NEW SITE PLAN	DGY	2018.11.10
1	ISSUED FOR CITY APPROVAL	DGY	2018.08.10
No.	REVISIONS	By	Date

CCR PROCESS PRODUCTS



Project Title

CCR WAREHOUSE ADDITION
& OFFICE RENOVATION
20 COPE DRIVE, KANATA, ONTARIO



Drawing Title

STORM DRAINAGE AREA PLAN

Scale
1 : 500

Design ST	Date SEPT 2018
Drawn ST	Checked DGY
Project No. 117308	Drawing No. C-500

U:\17308_20CopsDrExp\5.9 Drawings\59encl\layouts\C-500.dwg Layout Name: STORM DRAINAGE AREA PLAN Plot Style: AIA STANDARD--FULL CTB Plot Scale: 1:25.4 Plotted At: 2/5/2019 10:42 AM Last Saved By: SD.TAYLOR Last Saved At: Feb.

CITY FILE No. D07-12-18-0144	CITY PLAN No. 14050
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APPROVED

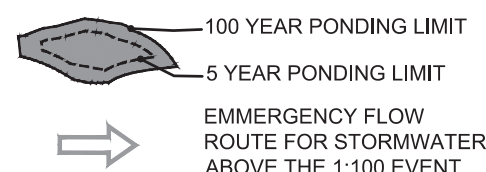
By Derrick Moodie at 12:10 pm, Feb 28, 2019

Derrick Moodie

DERRICK MOODIE
MANAGER

PLANNING, INFRASTRUCTURE & ECONOMIC
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA

LEGEND



P11C	POND AREA #
98.40	POND ELEVATION (m)
0.25	POND DEPTH (m)
25.45	POND VOLUME (m³)

REVIEWED BY
DEVELOPMENT REVIEW SERVICES BRANCH

Signed _____

Date _____ 2018

Plan Number _____

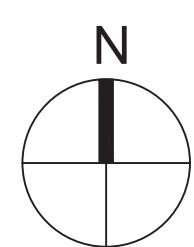


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4	REVISED FOR CITY COMMENTS	DGY	2019-02-01
3	REVISED WATERMAIN	DGY	2019-01-08
2	REVISED PER NEW SITE PLAN	DGY	2018-12-14
1	ISSUED FOR CITY APPROVAL	DGY	2018-09-17
No.	REVISIONS	By	Date

CCR PROCESS PRODUCTS

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Project Title
**CCR WAREHOUSE ADDITION
& OFFICE RENOVATION**
20 COPE DRIVE, KANATA, ONTARIO



PONDING
PLAN

Scale 1 : 500

Design ST Date SEPT 2018

Drawn ST Checked DGY

Project No. 117308 Drawing No. C-600

