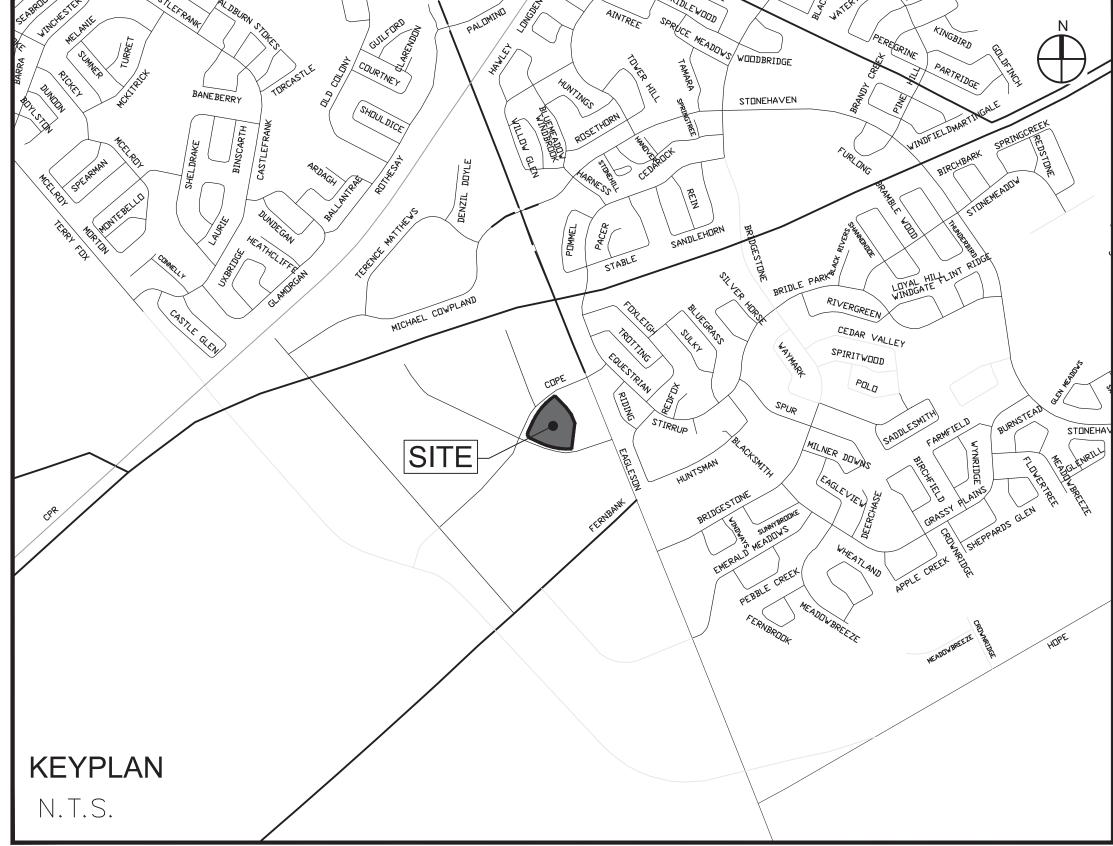
DEVELOPM	REVIEWED BY ENT REVIEW SERVICES BRANCH	
Signed		
Date	2018	
Plan Number		

# CCR WAREHOUSE ADDITION & OFFICE RENOVATION

20 COPE DRIVE, KANATA, ONTARIO



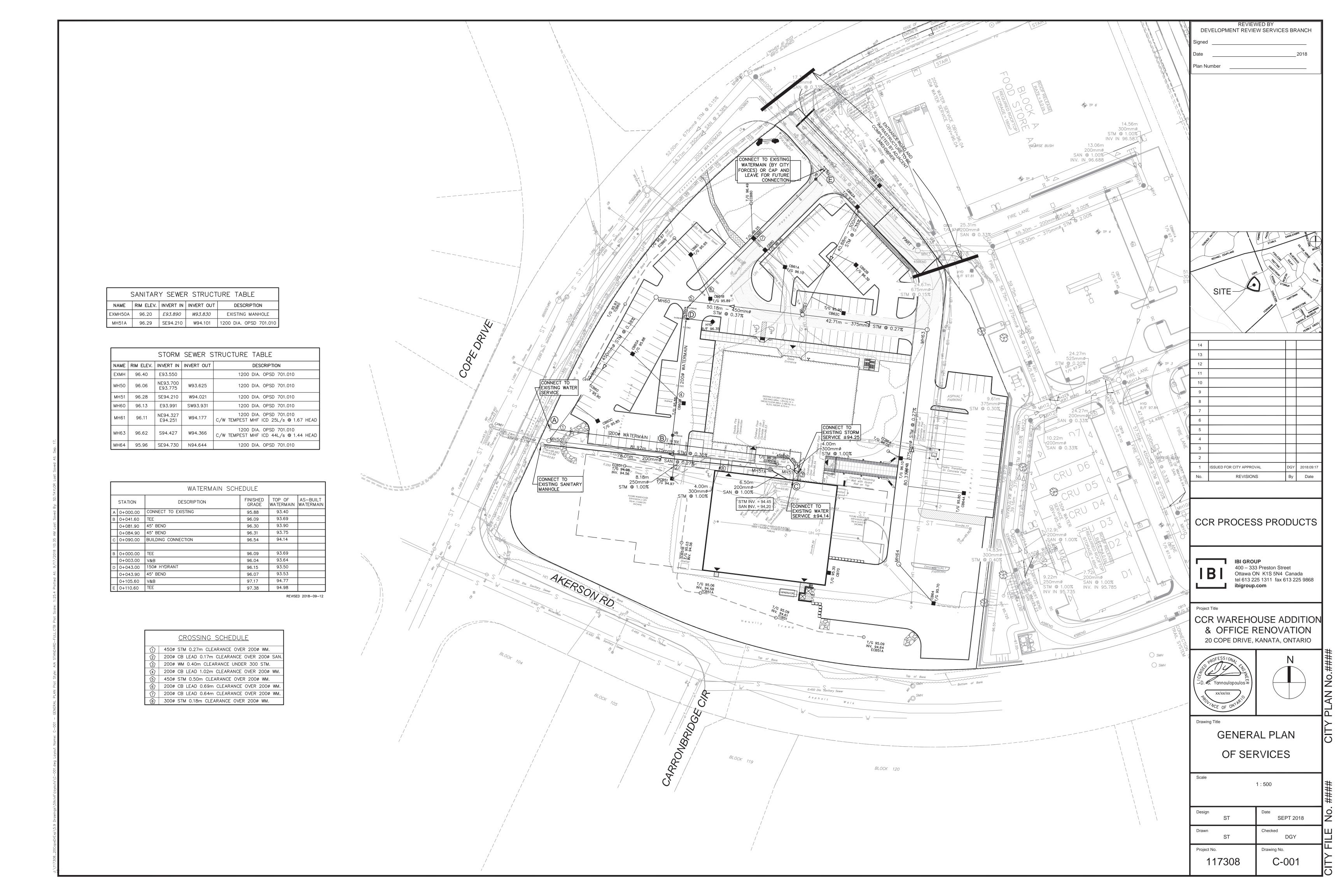
Sheet List Table					
Sheet Number	Sheet Title				
000	COVER				
C-001	GENERAL PLAN				
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## CCR PROCESS PRODUCT

**CONTRACT NO. 117308** 

KEYPLAN

ibigroup.com



### UTILITY LEGEND

	TRANSFORMER
	TRANSFORMER C/W CONCRETE WINGS
HSG	HYDRO SWITCHGEAR
НМН	HYDRO MANHOLE
	BELL PEDESTAL
GLB	BELL GRADE LEVEL BOX (I=600mm, w=1200mm, d=750mm) C/W 1.5 x 3.0m easeme
FC	BELL FIBER CABINET (I=1200mm, w=750mm, d=500mm)
CSP	BELL CENTRAL SPLITTING POINTS (I=1175mm, w=1200mm, d=500mm)
	ROGERS PEDESTAL
$\boxtimes$	ROGERS VAULT (I=1000mm, w=1000mm, d=1200mm) C/W 1m x 2m easement
⊅	STREET LIGHT
D	STREET LIGHT DISCONNECT
Ir	STREET LIGHT GROUNDING
—H/B/T/G/S———	JOINT UTILITY TRENCH
Н	HYDRO CABLE AND DUCTS
——В———	BELL CABLE
BB	BELL DUCTS
——т———	ROGERS CABLE
ТТ	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
地元 京都 200元 利用 (100元)	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
DC	CONCRETE SIDEWALK
000	- TACTILE WALKING SURFACE INDICATOR, DEPRESSED CURB
	ASPHALT SIDEWALK / PATHWAY
BU\$	BUS STOP CONCRETE / ASPHALT
	FIRE ROUTE
FIRE LANE	

### STANTEC GEOMATICS LTD. SURVEY LEGEND

HTRAN  WW WATER VALVE  TP  TEST PIT  GV  GAS VALVE  BULLARD  CATCH BASIN  VC  VALVE CHAMBER  STORM MANHOLE  FMH  FIBER OPTIC MANHOLE  SANITARY MANHOLE  DRAIN  WEIL  WATER WELL	INV  BPED  TS  BMH  HMH  HGUY  HGUY  HBP  HP  LS  HH  SN  BP  TCB  TL	TREELINE INVERT BELL PEDESTAL TRAFFIC SIGN BELL MANHOLE HYDRO MANHOLE TRAFFIC MANHOLE FIRE HYDRANT HYDRO GUY WIRE HYDRO POLE LIGHT STANDARD HYDRO LIGHT STANDARD HAND HOLE SIGN BELL POLE TRAFFIC CONTROL BOX TRAFFIC LIGHT CABLE PEDESTAL
GAS VALVE BLRD BOLLARD  CATCH BASIN VC VALVE CHAMBER STORM MANHOLE FMH FIBER OPTIC MANHOLE SANITARY MANHOLE DRN  DRN		
BLRD BOLLARD  CB CATCH BASIN  VC VALVE CHAMBER  STORM MANHOLE  FMH FIBER OPTIC MANHOLE  SMH SANITARY MANHOLE  DRAIN	→ TP	TEST PIT
	BLRD  CB VC STMH FMH SMH DRN	BOLLARD CATCH BASIN VALVE CHAMBER STORM MANHOLE FIBER OPTIC MANHOLE SANITARY MANHOLE DRAIN

### SEDVICING LECEND

SERVICING L	EGEND
	SANITARY MANHOLE
● MH119A	SANITARY MANHOLE C/W WATER TIGHT COVER
200mmø SAN	SANITARY SEWER
MH109	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
CB100 T/G 104.10	ICD LOCATION
■ RYCB T/G 104.35	REAR YARD CATCHBASIN IN ROAD CONNECTING STRUCTUR C/W SOLID GRATE
<del>−⊖ T</del> CB <del>−⊖ T</del> /G 104.35	REAR YARD "TEE" CATCHBASIN C/W TOP OF GRATE (300Ø)
ECB <sub>O</sub> — T/G 104.50	REAR YARD "END" CATCHBASIN C/W TOP OF GRATE (300Ø)
CCB T/G 104.35	REAR YARD "CUSTOM ANGLED" CATCHBASIN C/W TOP OF GRATE (450Ø)
WCB T/G 104.35	REAR YARD "THREE WAY" CATCHBASIN C/W TOP OF GRATE (450Ø)
	PERFORATED REAR YARD SUBDRAIN
300mmø CSP	CSP CULVERT
⊗ V&VB	VALVE AND VALVE BOX
® <sup>V&amp;VC</sup>	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
$\triangleleft$	SINGLE SERVICE LOCATION
	DOUBLE SERVICE LOCATION
BH 12 102.00	INFERRED BEDROCK (SEE GEOTECHNICAL REPORT)
HGL 101.79 S/T	100 YEAR STORM HYDRAULIC GRADE LINE AT MANHOLE
HGL 101.79	STRESS TEST STORM HYDRAULIC GRADE LINE AT MANHOLE
<u>_108                                    </u>	UNDERSIDE OF FOOTING ELEVATION (WITH LOT #)
***************************************	CLAY SEAL IN SEWER / WATERMAIN TRENCH

### **GRADING LEGEND**

$\rightarrow$ $\rightarrow$ $\rightarrow$	PROPOSED SWALE C/W FLOW DIRECTION
	PROPOSED DITCH C/W FLOW DIRECTION AND SLOPE
1.3%	SLOPE C/W FLOW DIRECTION
$\leftarrow$	OVERLAND FLOW ROUTE
× 104.62	PROPOSED SPOT GRADE
×104.40 (S)	PROPOSED SWALE GRADE
×104.50 (S)HP	PROPOSED SWALE HIGH POINT GRADE
104.60 103.59 ×	LOT CORNER GRADE C/W EXISTING GRADE
86.45 EX ×	TIE INTO EXISTING GRADE
96.79	FULL STATIC PONDING GRADE
	RETAINING WALL
105.30 T/W	TOP OF RETAINING WALL GRADE
بليليل	TERRACING 3:1 MAXIMUM UNLESS NOTED OTHERWISE
103.50 B/W <sup>×</sup>	PROPOSED BOTTOM OF RETAINING WALL GRADE
<b>®</b>	PRESSURE REDUCING VALVE
F.FL. 96.32 T.FND. 95.96 U.S.F. 93.36 RISERS 0 M.U.S.F.	FINISHED FLOOR ELEVATION TOP OF FOUNDATION ELEVATION UNDERSIDE OF FOOTING ELEVATION TOTAL NUMBER OF RISERS MINIMUM UNDERSIDE OF FOOTING
WU	WALKUP UNIT
WO	WALKOUT UNIT
NS	NON-STANDARD FOUNDATION (Frost cover not provided for standard unit)
BS	BACKSPLIT UNIT (1.5m frost cover on footings)
<u> </u>	NOISE FENCE LOCATION

### **ROADWAY STRUCTURE:**

### CAR PARKING AREA:(590mm)

NOISE FENCE GATE

- SURFACE COURSE ASPHALTIC CONCRETE HL-4 (OPSS 1150) - BINDER COURSE ASPHALTIC CONCRETE HL-8 (OPSS 1150) - BASE COURSE: GRANULAR "A" (OPSS 1010) 350mm - SUBBASE Course: GRANULAR "B" TYPE I (OPSS 1010)

### ACCESS LANES :(720mm)

- SURFACE COURSE ASPHALTIC CONCRETE HL-4 (OPSS 1150) - BINDER COURSE ASPHALTIC CONCRETE HL-8 (OPSS 1150) 150mm - BASE COURSE: GRANULAR "A" (OPSS 1010) - SUBBASE Course: GRANULAR "B" TYPE I (OPSS 1010)

PER PINCHIN LTD. REPORT

### DRAWING NOTES

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

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.

ARCHITECT OR DESIGN ENGINEER AS APPLICABLE.

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-100D, 825Ø AND LARGER CL-65D.

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.

Bold font indicates CB's with ICD's

3.3 STORM MH COVERS TO BE OPEN TYPE. AS PER CITY STANDARD \$24, 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.

3.6 150mm DIAMETER SOCK-WRAPPED PERFORATED PVC SUBDRAINS TO BE INSTALLED AT THE LIMIT OF THE HEAVY DUTY ROAD STRUCTURE WHERE IT MEETS THE LIGHT DUTY ROAD STRUCTURE AND AT ALL CB'S IN HEAVY DUTY ROADS AS IDENTIFIED ON PLAN. SUBDRAINS TO DISCHARGE TO CB'S AS SHOWN.

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

### 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 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 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

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 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.

I ISSUED FOR CITY APPROVAL **CCR PROCESS PRODUCTS** 

DEVELOPMENT REVIEW SERVICES BRANCH

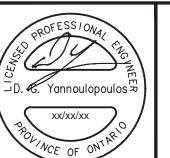
Plan Number



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Project Title

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



GENERAL NOTES,

N.T.S.

Revision: 2018-09-17

APR 2018 DGY Drawing No. 117308

	AREA ID	STRUCTURE	COVER	ELEVATION			OUTLET PIPE				
STRUCTURE				TOP OF	INVERT		DIAMETER	TVDE	HEAD	FLOW	ICD TYPE
ID				GRATE	INLET	OUTLET	(mm)	TYPE	(m)	(l/s)	
DICB51	BUSH	OPSD 705.030	3:1	94.97	94.540	94.420	250	PVC DR-35	0.72	10	TEMPEST MHF
CB60	CB60	OPSD 705.010	S19	95.95	94.600	94.550	250	PVC DR-35			
CB60A	CB60A	OPSD 705.010	<b>S19</b>	95.88	94.250	94.120	250	PVC DR-35	1.86	20	TEMPEST MHF
CB60B	CB60B	OPSD 705.010	S19	95.88		94.500	200	PVC DR-35			
CB60C	CB60C	OPSD 705.010	<b>S19</b>	95.85		94.450	200	PVC DR-35	1.45	10	TEMPEST MHF
CB61A	CB61A	OPSD 705.010	<b>S19</b>	96.10	94.640	94.520	250	PVC DR-35	1.56	30	TEMPEST MHF
CB61B	CB61B	OPSD 705.010	<b>S19</b>	95.89	94.410	94.290	250	PVC DR-35	1.74	10	TEMPEST MHF
CB62	CB62	OPSD 705.010	S19	97.01		95.610	200	PVC DR-35			
CB62A	CB62A	OPSD 705.010	S19	97.01	95.410	94.470	300	PVC DR-35			
CB62B	CB62B	OPSD 705.010	S19	96.30		94.900	200	PVC DR-35			
CB62C	CB62C	OPSD 705.010	S19	95.90		94.500	200	PVC DR-35			
CB64	CB64	OPSD 705.010	S19	95.70		94.910	200	PVC DR-35			
CB64A	CB64A	OPSD 705.010	S19	95.80		94.950	200	PVC DR-35			
CB64B	CB64B	OPSD 705.010	S19	96.10	94.850	94.750	250	PVC DR-35			
CB70	CB70	OPSD 705.010	S19	95.30		94.840	200	CONNECT TO	FOUNDAT	ION DRAIN	
CB80	CB80	OPSD 705.010	S19	96.25	94.790	94.740	250	PVC DR-35			
CB81	CB81	OPSD 705.010	S19	96.25	94.874	94.850	200	PVC DR-35			

