

### **GENERAL NOTES:**

- 1. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE CURRENT "OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS". THE GENERAL CONTRACTOR SHALL BE DEEMED TO BE THE CONSTRUCTOR AS DEFINED IN THE ACT.
- 2. ALL TEMPORARY TRAFFIC CONTROL AND SIGNAGE DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH CURRENT ONTARIO
- TRAFFIC MANUAL BOOK 7: TEMPORARY CONDITIONS FIELD EDITION. 3. ALL THE CONSTRUCTION WORK FOR THIS PROJECT SHALL COMPLY WITH THE STANDARD DRAWINGS AND SPECIFICATIONS OF THE CITY, THE REGION AND THE ONTARIO PROVINCIAL STANDARDS AND
- SPECIFICATIONS. 4. THE CONTRACTOR IS ADVISED THAT WORKS BY OTHERS MAY BE ONGOING DURING THE PERIOD OF THIS CONTRACT. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH ALL OTHER CONTRACTORS

AND PREVENT CONSTRUCTION CONFLICTS.

- 5. THE INFORMATION SHOWN FOR EXISTING UTILITIES WAS PROVIDED BY OTHERS. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL UTILITIES DURING CONSTRUCTION. ALL EXISTING UTILITIES MUST BE LOCATED AND VERIFIED BY EACH UTILITY PRIOR TO COMMENCEMENT OF WORK. ANY VARIANCE IS TO BE IMMEDIATELY REPORTED TO THE ENGINEER. LOST TIME DUE TO FAILURE OF THE CONTRACTOR TO CONFIRM UTILITY LOCATIONS AND NOTIFY THE ENGINEER OF CONFLICTS PRIOR TO CONSTRUCTION WILL BE AT THE CONTRACTORS EXPENSE.
- 5. PRIOR TO COMMENCING ANY WORK WITHIN THE MUNICIPAL RIGHT OF WAY, THE CONTRACTOR OR DEVELOPER OR CONSULTANT WILL OBTAIN ALL NECESSARY ROAD OCCUPANCY PERMITS FROM THE CITY'S RIGHT-OF-WAY MANAGEMENT UNIT. ROAD OCCUPANCY/ACCESS PERMIT MUST BE OBTAINED 48 HOURS PRIOR TO COMMENCING ANY WORKS WITHIN THE MUNICIPAL ROAD ALLOW.
- 6. ALL WORK TO BE DESIGNED AND COMPLETED AS PER OPSS, OPSD, AND
- 7. NO ALTERATIONS TO EXISTING BOUNDARY ELEVATIONS OR ADJACENT LANDS SHALL BE UNDERTAKEN UNLESS WRITTEN AGREEMENT WITH THE ADJACENT PROPERTY OWNER IS OBTAINED AND SUBMITTED IN A FORMAT ACCEPTABLE TO THE CITY.

#### SITE GRADING:

- 1. ALL DISTURBED GRASSED AREAS SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER WITH SOD ON MIN 100mm TOPSOIL. THE RELOCATION OF TREES AND SHRUBS SHALL BE SUBJECT TO APPROVAL BY THE PROJECT LANDSCAPE ARCHITECT OR ENGINEER.
- 2. ALL GRANULAR BASE AND SUB-BASE MATERIALS SHALL BE GRADED AND COMPACTED TO 98% STANDARD PROCTOR DENSITY, FREE OF DEPRESSIONS AS PER THE GEOTECHNICAL REPORT.
- 3. THE PAVEMENT STRUCTURE SHALL BE CONSTRUCTED BASED ON SPECIFICATIONS AS PER THE GEOTECHNICAL REPORT
- 4. TRENCH BACKFILL WITHIN THE RIGHT OF WAY SHALL BE UNSHRINKABLE FILL AND SHALL EXTEND TO THE BASE OF ASPHALT. LANDSCAPED AREA
- MAY BE EXEMPTED. 5. ALL WORK SHALL BE SUBJECT TO THE CONDITIONS AND REQUIREMENTS OF CITY ROAD OCCUPANCY PERMIT.
- 6. INSPECTIONS: ALL WORK ON THE MUNICIPAL RIGHT OF WAY AND EASEMENTS TO BE INSPECTED BY THE MUNICIPALITY PRIOR TO BACKFILLING ALL WORK RELATING TO WATERMAINS AND SEWERS TO BE
- INSPECTED BY THE MUNICIPALITY WHEN REQUIRED BY THE MUNICIPALITY. 7. EMBANKMENTS TO BE SLOPED AT MAX. 3:1, UNLESS OTHERWISE 8. ALL PAVEMENT MARKING, LINE PAINTING, DIRECTIONAL LINES/ARROWS ETC. SHALL BE PLACED IN ACCORDANCE WITH THE ARCHITECTURAL SITE PLAN OR THE OWNER'S TRAFFIC ENGINEERING CONSULTANT'S DRAWINGS.
- MINIMUM OF TWO COATS OF ORGANIC SOLVENT BASED PAINT IN ACCORDANCE WITH OPSS 1712. 9. THE CONTRACTOR SHALL PROVIDE TO THE ENGINEER 1 (ONE) SET OF AS CONSTRUCTED SITE SERVICING, GRADING, AND SITE ELECTRICAL

#### DRAWINGS. **WATERMAINS:**

1. WATERMAIN SHALL BE POLYVINYL CHLORIDE (PVC) CLASS 150 DR-18 PIPE MANUFACTURED TO AWWA C900-89 AND CSA CAN3 B137.3-M1986 WITH

LINE PAINTING AND DIRECTIONAL SYMBOLS SHALL BE APPLIED WITH A

- GASKETED BELL END C/W #14 AWG SOLID COPPER TRACER WIRE. 2. WATERMAINS SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 300mm OVER AND 500mm UNDER SEWERS AND ALL OTHER UTILITIES WHEN CROSSING. ALL WATERMAINS AND SERVICES SHALL HAVE 1.80m MINIMUM
- 3. BEDDING FOR WATERMAINS SHALL BE AS PER OPSD 802.030. 4. COVER REQUIRED ON WATERMAIN IS 1.8m MINIMUM.
- 5. ALL WATERMAIN HORIZONTAL AND VERTICAL BENDS, JOINTS AND PLUGS TO BE MECHANICALLY RESTRAINED. THRUST BLOCKS/MECHANICAL RESTRAINERS MIJST RE INSTALLED ON ALL WATERMAIN RENDS TEES AND PLUGS AS PER LOCAL MUNICIPAL STANDARDS. 6. ALL WATERMAIN STUBS SHALL BE TERMINATED WITH A PLUG AND 50mm
- BLOW OFF UNLESS OTHERWISE NOTED. 7. HYDRANT AND VALVE TO BE AS PER OPSD 1105.010.
- 8. ALL HYDRANT FLANGE ELEVATIONS TO BE INSTALLED 0.15m ABOVE PROPOSED FINISHED GRADE AT HYDRANT. 9. BUILDING SERVICE VALVES TO BE 3.0m OFF THE FACE OF THE BUILDING
- UNLESS OTHERWISE NOTED AND MUST BE RESTRAINED A MINIMUM OF 12m BACK FROM STUB. 10. PROVISIONS FOR FLUSHING WATERMAINS MUST BE PROVIDED WITH A MINIMUM 50mm OUTLET FOR MAINS 100mm AND LARGER. FLUSHING POINTS MATCHING THE SIZE OF THE PIPE MUST BE PROVIDED AT THE END OF EACH COPPER MAIN. FIRE MAIN FLUSHING OUTLETS TO BE 100mm
- OR PIPED TO ALLOW THE WATER TO DRAIN. 11. ALL WATERMAINS SHALL BE HYDROSTATICALLY TESTED IN ACCORDANCE WITH LOCAL MUNICIPAL AND PROVINCIAL GUIDELINES UNLESS OTHERWISE DIRECTED. PROVISIONS FOR FLUSHING WATER LINE PRIOR TO TESTING, ETC. MUST BE PROVIDED.

DIAMETER MINIMUM OR A HYDRANT. FLUSHING POINTS MUST BE HOSED

- 12. ALL PROPOSED WATER PIPING MUST BE ISOLATED FROM EXISTING MAINS IN ORDER TO ALLOW INDEPENDENT PRESSURE TESTING AND
- 13. BOTH THE FIRE AND DOMESTIC WATER SERVICES MUST COMPLY WITH THE CURRENT BUILDING CODE ACT, THE CURRENT WATER SUPPLY BY-LAW, CHAPTER 851 AND CSA B-64 SERIES STANDARDS.

# **SANITARY & STORM SEWER:**

CHLORINATION.

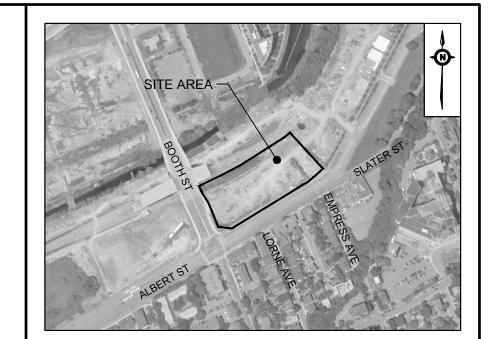
- 1. MANHOLES SHALL BE AS PER OPSD DIVISION 700 SERIES; FRAMES AND COVERS SHALL BE AS PER OPSD 401.010. SAFETY PLATFORMS TO BE
- INSTALLED WHERE DEPTH EXCEEDS 5.0m. 2. MAIN LINE PVC PIPE AS PER SDR-35 CSA B182.2-06 CERTIFIED ASTM D3034-04A, F679-03. SERVICE CONNECTION PVC PIPE TO BE AS PER
- SDR-28 CSA B 182.2-06 CERTIFIED ASTM D3034-04A. 3. SINGLE CATCHBASINS SHALL BE AS PER OPSD 705.010, WITH FRAMES AND COVERS AS PER OPSD 400.020. DOUBLE CATCHBASINS SHALL BE AS PER
- OPSD 705.020. 4. CONCRETE PIPE SEWER BEDDING SHALL BE CLASS 'B' AS PER OPSD 802.030, PVC PIPE SEWER BEDDING SHALL BE CLASS 'B' AS PER OPSD 802.030 TO TOP OF SEWER WITH A MINIMUM 300mm SAND COVER OVER
- PIPE NATIVE BACKFILL TO BE COMPACTED TO A MIN. 98% STANDARD PROCTOR DENSITY 5. ALL STORM SEWER PIPES UP TO 450mm DIA. SHALL BE PVC SDR-35 OR APPROVED EQUIVALENT. ALL STORM SEWER PIPES 525mm DIA. AND LARGER SHALL BE CONCRETE AND EQUAL TO C.S.A. SPECIFICATIONS
- A257.2 REINFORCED CLASSES AS SPECIFIED (65-D, 100-D, 140-D,) OR LATEST AMENDMENT UNLESS OTHERWISE SPECIFIED. 6. ALL SANITARY PVC SEWER PIPES SHALL BE SDR-35 EQUAL CSA SPECIFICATIONS B182.2-M1990 OR LATEST AMENDMENT UNLESS
- 7. SANITARY SERVICE CONNECTIONS SHALL BE SINGLE, 150mmØ MINIMUM,
- PVC CLASS DR 28 INSTALLED AT 2 % AND ANY COLOUR EXCEPT WHITE, FOR SINGLE RESIDENTIAL DWELLINGS. 8. SANITARY MAINTENANCE HOLE SHALL HAVE WATERTIGHT FRAME AND
- COVER IN PONDING AREAS AS PER OPSD 401.030 9. NON-REINFORCED CONCRETE PIPE 150mm TO 250mm SHALL BE AS PER CSA A257.1-03 CLASS 3. HEIGHT OF FILL TO BE VERIFIED USING OPSD TABLES 807.040. BEDDING FOR RIGID PIPE SHALL BE CLASS B AS PER OPSD
- 802.030, 802.031, 802.032 OR 802.033 10. BEDDING FOR RIGID PIPE SHALL BE CLASS B AS PER OPSD 802.030, 802.031, 802.032 OR 802.033
- 11. ALL MANHOLE AND CATCH BASIN EXCAVATIONS TO BE BACKFILLED WITH GRANULAR MATERIAL COMPACTED TO 98% STANDARD PROCTOR DENSITY. 12. ALL BLIND CONNECTIONS TO MATCH THE INVERT OF THE CATCH BASIN

LEAD TO THE SPRINGLINE OF THE STORM PIPE. OTHERWISE INSTALL THE

- CATCH BASIN LEAD AT A MAXIMUM 2.00% AND DROP INTO PIPE. 13. UNLESS OTHERWISE NOTED, CATCHBASIN LEADS SHALL BE 250mmØ AT MINIMUM 1.00% SLOPE.
- 14. THE CONTRACTOR IS TO PROVIDE CCTV CAMERA INSPECTIONS OF ALL SANITARY AND STORM SEWERS, INCLUDING PICTORIAL REPORT, TWO (2) CD COPIES AND ONE (1) VIDEO TAPE IN A FORMAT SATISFACTORY TO THE ENGINEER. ALL SEWERS ARE TO BE FLUSHED PRIOR TO CAMERA INSPECTION.

15. THE CONTRACTOR SHALL CONTACT THE MUNICIPALITY AT LEAST 48

HOURS PRIOR TO CONNECTING TO THE EXISTING SANITARY& STORM 16. SERVICE CONNECTIONS AND UTILITY CUTS TO BE BACKFILLED WITH



ADDRESS: KEY PLAN 665 ALBERT STREET N.T.S. OTTAWA, ONTARIO SEE ABBREVIATIONS BELOW LEGEND

ELEVATIONS ARE GEODETIC, IN METRES, AND DERIVED FROM BENCHMARK: THE CAN-NET VRS NETWORK MONUMENT: OTTAWA ELEVATION=95.230

BEARINGS ARE GRID, DERIVED FROM THE CAN-NET VR NETWORK OBSERVATIONS ON NCC HORZ CONTROL MONUMENTS 19773035 & 19680191. CENTRAL MERIDIAN. 76°30' W LONGITUDE MTM ZONE 9

SITE PLAN:	KPMG, PERKINS & WILL

3111	L FLAIN.	IN WO, I ENNING & WILL		
SURVEY: STANTEC GEOMATICS LDT., 220324				
1		ISSUED FOR OPA / ZBA / SPA	220414	C.E
NO.		ISSUE	DATE	BY

## DRAWING NOTES | NOT FOR CONSTRUCTION

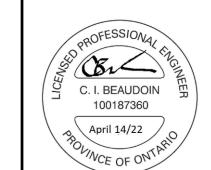
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OTHER DRAWINGS AND DOCUMENTS APPLICABLE TO THIS PROJECT.

THIS DRAWING IS NOT TO BE ISSUED FOR CONSTRUCTION UNTIL ALL REQUIRED PERMITS HAVE BEEN ISSUED. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, INVERTS

AND DATA ON SITE AND REPORT ANY DISCREPANCIES OR OMISSIONS TO TMIG 48 HOURS PRIOR TO ANY CONSTRUCTION. HDPE = HIGH DENSITY ABBREVIATIONS | TW = TOP OF WALL

POLYETHYLEN BW = BOTTOM OF WALL CONC = CONCRETE MH = MAINTENANCE PROP = PROPOSED SERVICING: HOLE EX = EXISTING STM = STORM CB = CATCH BASIN DCB = DOUBLE CATCH SAN = SANITARY **ELEVATIONS:** WAT = WATER TC = TOP OF CURB PVC = POLYVINYL AD = AREA DRAIN = BOTTOM OF CURB CHLORIDE TD = TRENCH DRAIN





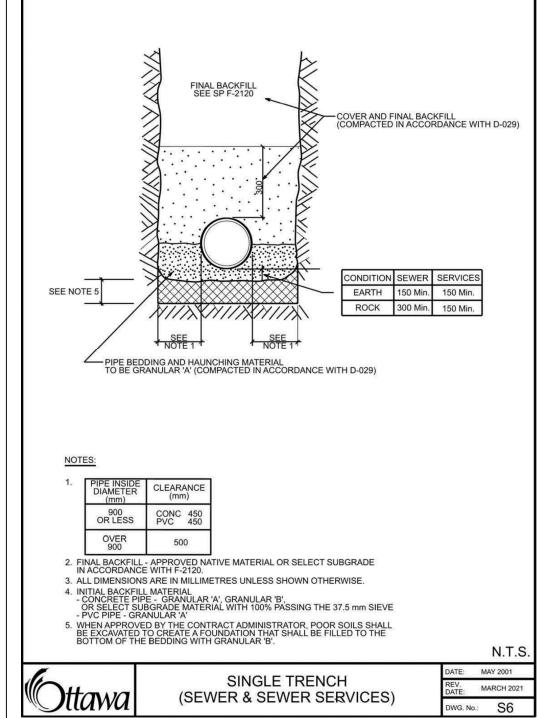
8800 DUFFERIN STREET

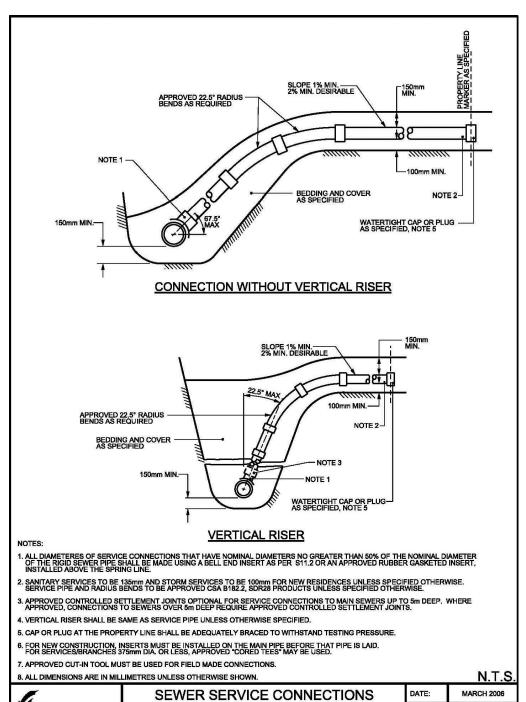
**DETAILS** 

LEBRETON LIBRARY PARCEL

DREAM

NTS SCALE: APRIL 2022 DRAWING # DRAWN BY: C.B. **D**1 DESIGNED BY: C.B. CHECKED BY: B.D.

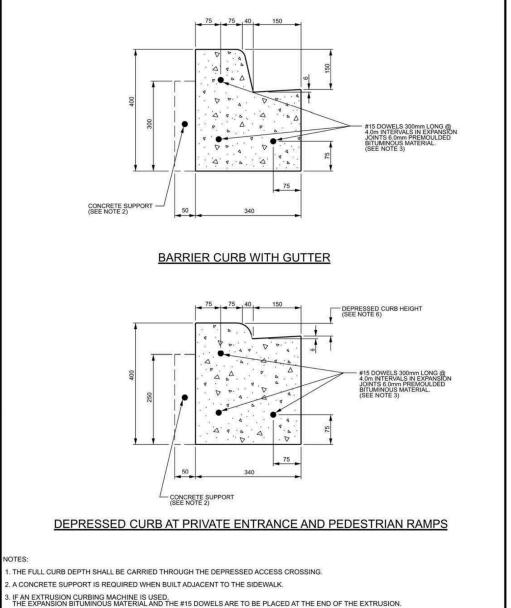




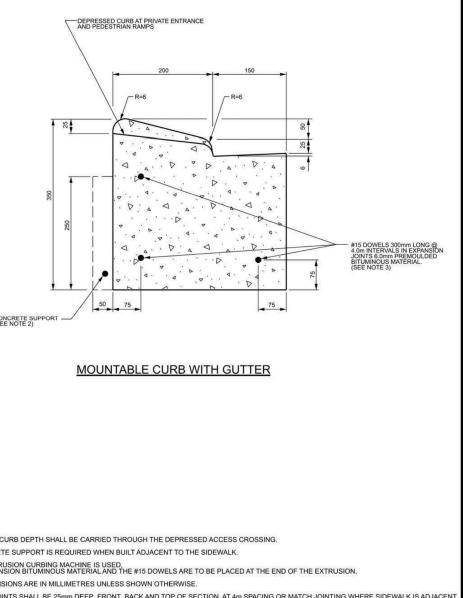
FOR RIGID MAIN SEWER PIPE

(MODIFIED OPSD-1006.010)

**MARCH 2014** 



FOR GRANULAR BASE PAVEMENT DWG. No.: SC1.2



FOR GRANULAR BASE PAVEMENT

SIZE OF DROP PIPE

Storm and Sanitary

Storm and Sanita

Storm and Sanita

Storm

Storm

Nov 2016 Rev 3

SEWER ID DROP PIPE ID APPLICATION

200

250

375

450

525

600

450

525

600

675

1 Concrete shall be placed to undisturbed ground and the outside face of the maintenance hole, but there shall be a minimum of 150mm of 15MPa

Concrete shall be secured to the maintenance hole with 450mm long,

13mm diameter threaded rods and drilled expansion anchors down either

SECTION A-A

side of the drop pipe at 300mm centres.

ONTARIO PROVINCIAL STANDARD DRAWING

CAST-IN-PLACE

concrete around the drop pipe.