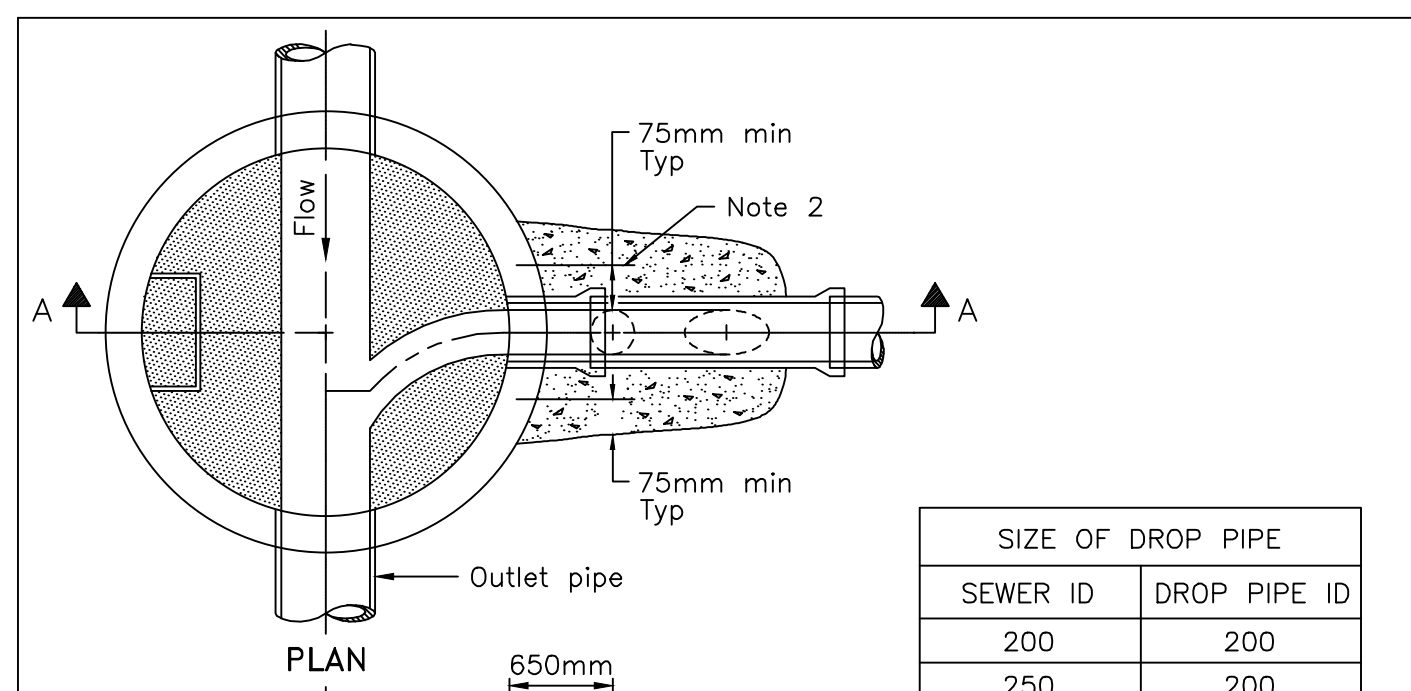


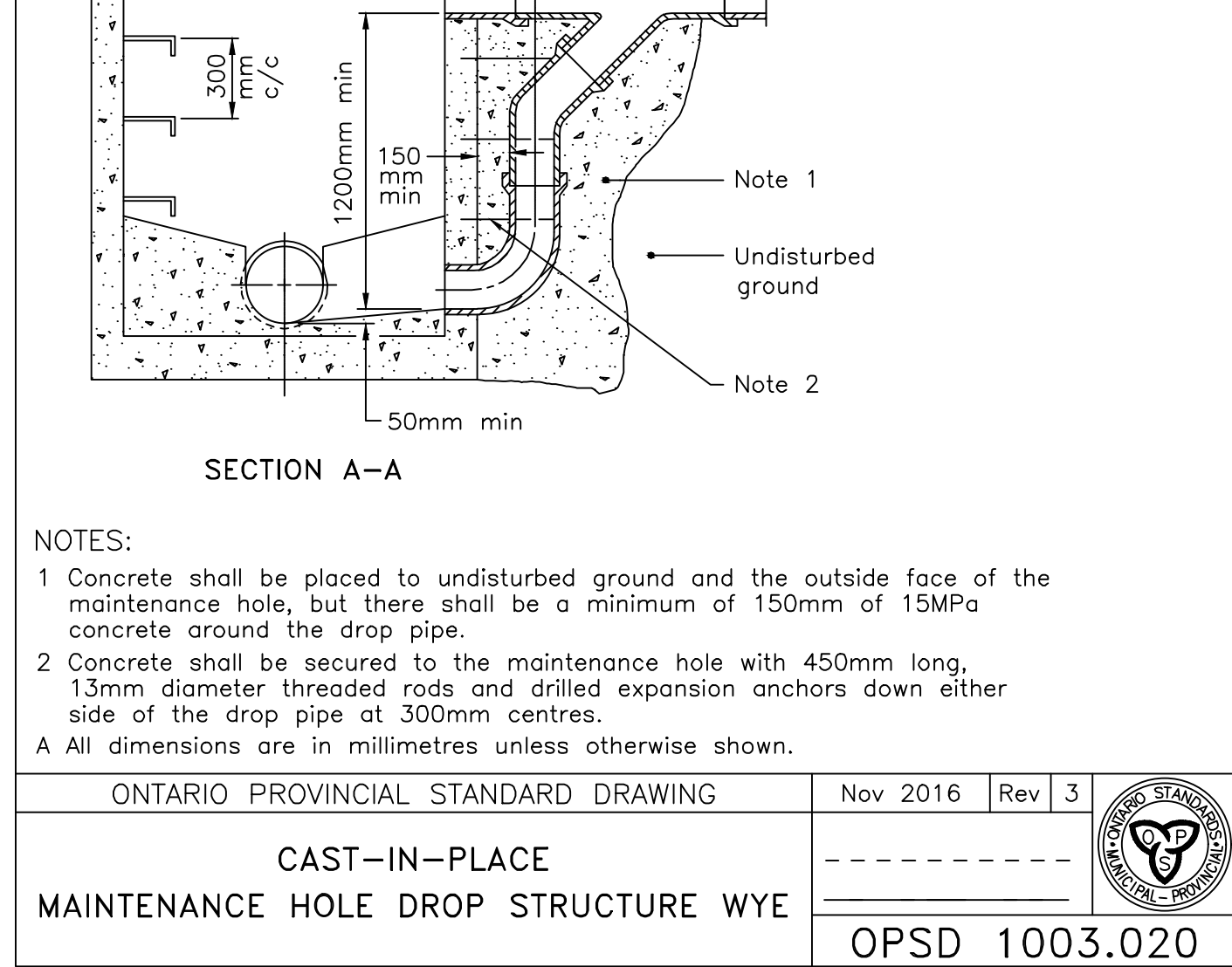
**CATCH BASIN - ELBOW FOR REAR YARD, DITCHED PIPE AND LANDSCAPING APPLICATIONS**

DATE: MARCH 2007  
REV. DATE: MARCH 2019  
DWG. No.: S31



**MAINTENANCE HOLE DROP STRUCTURE WYE**

ONTARIO PROVINCIAL STANDARD DRAWING  
Nov 2016 Rev 3  
CAST-IN-PLACE  
OPSD 1003.020



LOCATION	STATION	FINISHED GRADE	TOP OF PIPE	COVER
A-400 X 150 TEE	0+100.00	63.72	61.32	2.40
11.25' BEND	0+104.19	63.77	61.37	2.40
DMA CHAMBER	0+109.35	63.75	61.35	2.40
45' BEND	0+133.67	63.57	61.17	2.40
45' BEND	0+134.32	63.56	61.16	2.40
WATER ENTRY	0+136.10	63.60	61.20	2.40
B-400 X 150 TEE	0+200.00	63.80	61.40	2.40
VALVE	0+201.00	63.79	61.39	2.40
HYDRANT	0+205.00	63.70	61.30	2.40

LOCATION	DESCRIPTION	SEPARATION
1	PROP. 250mmØ STM SERVICE INV 58.21 EX. 300mmØ STM SERVICE OBY 57.90 PROP. 250mmØ STM SERVICE INV 58.20 EX. 135mmØ SAN SERVICE OBY 57.82 PROP. 250mmØ STM SERVICE INV 57.75 EX. 250mmØ SAN MAIN OBY 55.77 PROP. 250mmØ SUBDRAIN INV 58.43 EX. 250mmØ SAN MAIN OBY 55.32	0.31
2		0.38
3		1.98
4		3.11

NAME	RIM ELEV.	INVERT IN	INVERT OUT	DESCRIPTION
MH1A	60.44	55.7636	N57.610	COVER TYPE A FRAME OPSD 401.010 STRUCT. OPSD 701.010

NAME	RIM ELEV.	INVERT IN	INVERT OUT	DESCRIPTION
CB1	60.37	E58.294	S58.250	STRUC. OPSD 705.010 FRAME: CITY 519 COVER: CITY 519
LSCB2	59.44		W58.440	PER CITY STANDARD S31
OGS3	60.40	SW57.963 WS58.514	E57.930	HYDRO-INTERNATIONAL FD-4HC (OR APPROVED EQUIVALENT)

**1 SITE SERVICING PLAN**  
1:250

**GENERAL NOTES**

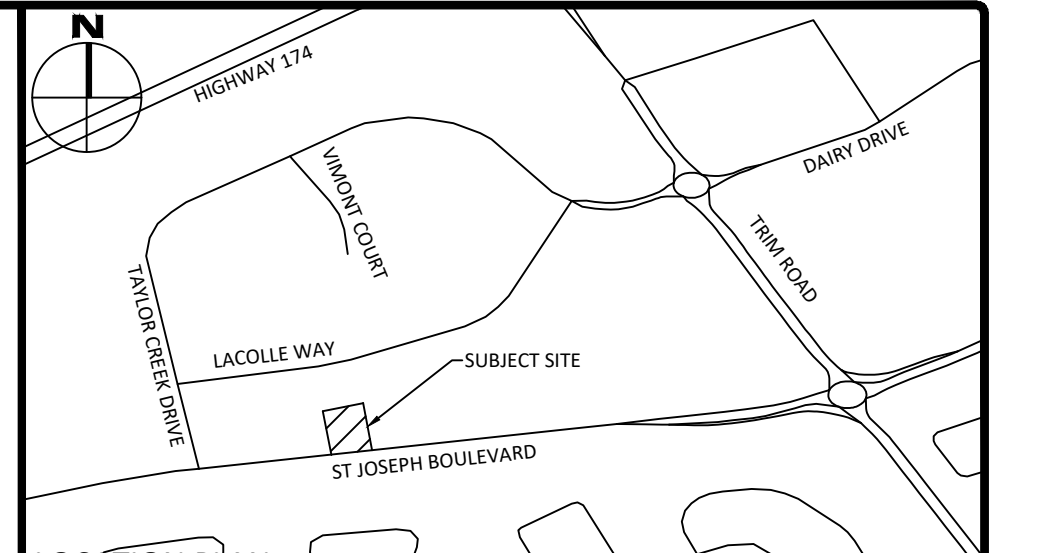
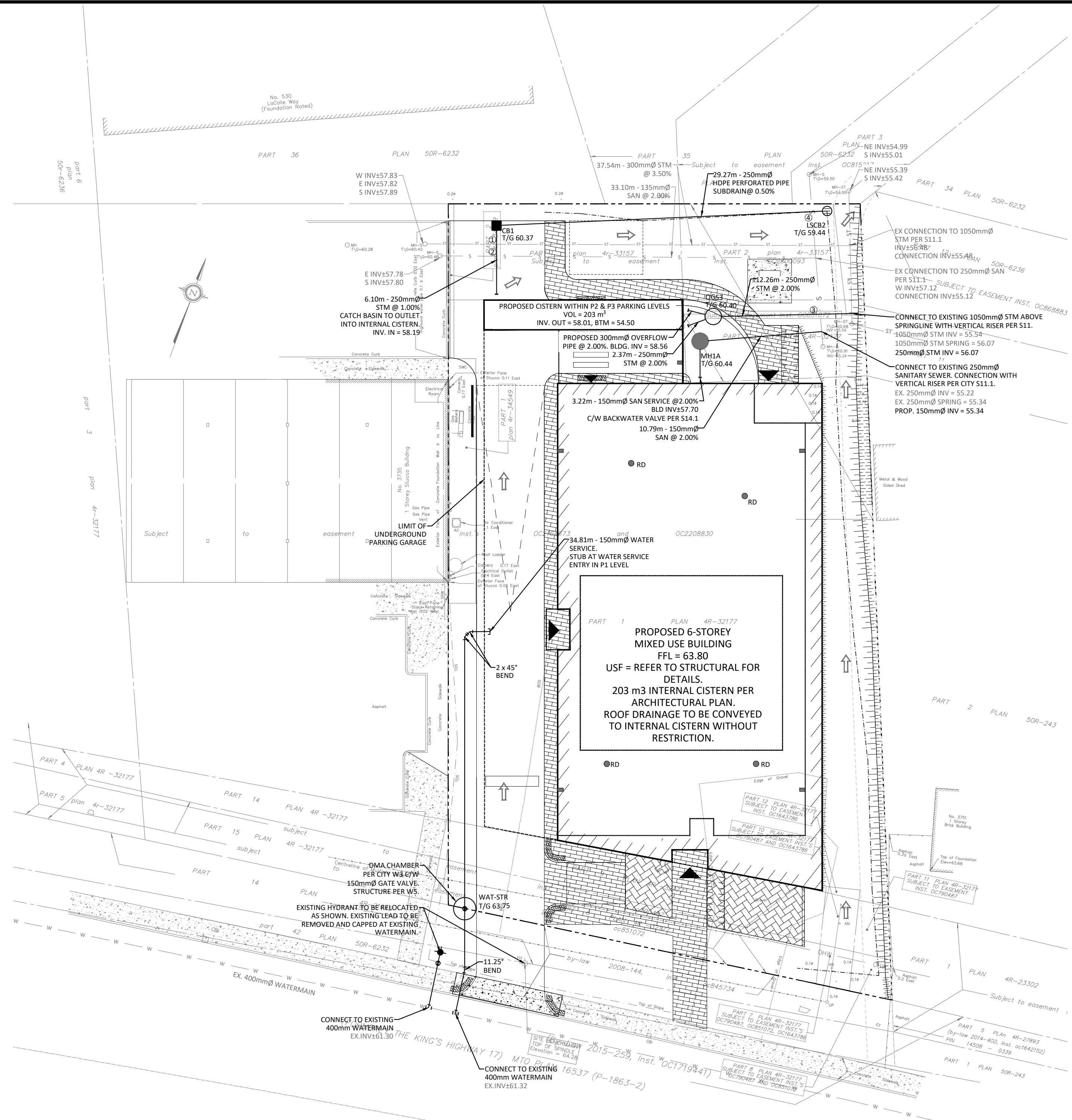
- THE ORIGINAL TOPOGRAPHY, GROUND ELEVATION AND SURVEY DATA SHOWN ARE SUPPLIED FOR INFORMATION PURPOSES ONLY, AND IMPLY NO GUARANTEE OF ACCURACY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL INFORMATION SHOWN.
- THIS PLAN IS NOT A CADASTRAL SURVEY SHOWING LEGAL PROPERTY BOUNDARIES AND EASEMENTS. THE PROPERTY BOUNDARIES SHOWN HEREON HAVE BEEN DERIVED FROM INFORMATION SUPPLIED BY (OR SHOWN ON) ANNS/O'SULLIVAN, VOLLEBEKK LTD. DRAWING E-2505-22, AND CANNOT BE RELIED UPON TO BE ACCURATE OR COMPLETE. THE PRECISE LOCATION OF THE CURRENT PROPERTY BOUNDARIES AND EASEMENTS CAN ONLY BE DETERMINED BY AN UP-TO-DATE LAND TITLES SEARCH AND A SUBSEQUENT CADASTRAL SURVEY PERFORMED AND CERTIFIED BY AN ONTARIO LAND SURVEYOR.
- THE CONTRACTOR IS TO OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY BEFORE COMMENCING CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL LAYOUT.
- THE CONTRACTOR IS TO DETERMINE THE EXACT LOCATION, SIZE, MATERIAL AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION. PROTECT AND ASSUME ALL RESPONSIBILITY FOR EXISTING UTILITIES WHETHER OR NOT SHOWN ON THESE DRAWINGS. IF THERE IS ANY DISCREPANCY THE CONTRACTOR IS TO NOTIFY THE ENGINEER PROMPTLY.
- RESTORE ALL TRENCHES AND SURFACES OF PUBLIC ROAD ALLOWANCES TO CONDITION EQUAL OR BETTER THAN ORIGINAL CONDITION AND TO THE SATISFACTION OF THE CITY AUTHORITIES.
- EXCAVATE AND DISPOSE OF ALL EXCESS EXCAVATED MATERIAL, SUCH AS ASPHALT, CURBING AND DEBRIS, OFF SITE AS DIRECTED BY THE ENGINEER AND THE CITY.
- TOPSOIL TO BE STRIPPED AND STOCKPILED FOR REHABILITATION. CLEAN FILL TO BE PLACED IN ALL AREAS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.
- ALL DISTURBED AREAS TO BE RESTORED TO ORIGINAL

**WATERMAIN NOTES**

- CONSTRUCT ALL WATERMANS AND APPURTENANCES IN ACCORDANCE WITH OPSD STANDARDS AND SPECIFICATIONS, AS WELL AS CITY STANDARDS.
- WATERMANS AND/OR WATER SERVICES ARE TO HAVE A MINIMUM COVER OF 2.4m. OTHERWISE THERMAL INSULATION IS REQUIRED AS PER CITY STANDARDS (IF AVAILABLE) OR OPSD 1109.030.
- IF THE WATERMAIN MUST BE DEFLECTED TO MEET ALIGNMENT, ENSURE THAT THE AMOUNT OF DEFLECTION IS EQUAL TO OR LESS THAN THAT WHICH IS RECOMMENDED BY THE MANUFACTURER.
- THERMAL INSULATION OF WATERMANS AT OPEN STRUCTURES AS PER CITY STANDARDS (IF AVAILABLE) OR OPSD 1109.030.
- VALVES TO BE OPERATED BY CITY STAFF ONLY.
- NO CONNECTION TO EXISTING WATER NETWORK SHALL BE COMPLETED UNTIL A WATER PERMIT IS OBTAINED FROM THE CITY. CITY TO BE PRESENT FOR WATERMAIN CONNECTION, CONNECTION, EXCAVATION, BACKFILLING AND REINSTATEMENT TO BE COMPLETED BY CONTRACTOR.
- IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ANY WATERMAIN CONNECTION(S) REQUIRED. THIS SHALL BE COMPLETED IN THE PRESENCE OF A DESIGNATED MUNICIPAL WATER OPERATOR AND THE SELECTED CONTRACTOR SHALL PROVE TO THE SATISFACTION OF THE CITY THAT THEY ARE COMPETENT TO PERFORM THE WORKS PRIOR TO INITIATING CONSTRUCTION.
- CONCRETE THRUST BLOCKS TO CONFORM TO OPSD 1103.010 AND OPSD 1103.020.
- ALL WATERMAIN TO BE CLASS 150 DR-18 OR APPROVED EQUIVALENT.
- ALL WATERMAIN TO BE EQUIPPED WITH TRACER WIRE.
- CONTRACTOR TO ENSURE ALL APPLICABLE OPS SPECIFICATIONS ARE FOLLOWED DURING CONSTRUCTION.
- ALL PROPOSED CURB TO BE CONCRETE BARRIER CURB UNLESS OTHERWISE SPECIFIED.
- THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE GEOTECHNICAL INVESTIGATION COMPLETED BY PATERSON GROUP, DATED AUGUST 10TH, 2018

**SEWER NOTES:**

- CONSTRUCT ALL SEWERS, CATCH BASINS, MANHOLES AND APPURTENANCES IN ACCORDANCE WITH OPSD STANDARDS AND SPECIFICATIONS, AS WELL AS CITY.
- SEWER TRENCHING AND BEDDING SHALL CONFORM TO OPSD 802.010 AND 802.013 UNLESS NOTED OTHERWISE.
- BEDDING SHALL BE A MINIMUM 150mm OF GRANULAR "A" COMPACTED TO MINIMUM 95% STANDARD PROCTOR DRY DENSITY. CLEAR STONE BEDDING SHALL NOT BE PERMITTED.
- SUB-BEDDING, IF REQUIRED SHALL CONSIST OF 450mm OF COMPACTED GRANULAR "B" TYPE 1.
- BACKFILL TO AT LEAST 300mm ABOVE TOP OF PIPE WITH GRANULAR "A" OR GRANULAR "B" TYPE 1.
- TO MINIMIZE DIFFERENTIAL FROST HEAVING, TRENCH BACKFILL (FROM PAVEMENT SUBGRADE TO 2.0 METRES BELOW FINISHED GRADE) SHALL MATCH EXISTING SOIL CONDITIONS.
- SANITARY SEWERS AND CONNECTIONS 150mmØ AND SMALLER TO BE PVC SDR-28.
- SEWERS AND CONNECTIONS 200mmØ AND LARGER TO BE PVC SDR-35. BEDDING TO BE TYPE "B" EXCEPT AT RISERS, UNLESS NOTED OTHERWISE.
- INSULATE ALL STORM AND SANITARY SEWERS/SERVICES THAT HAVE LESS THAN 2.0m OF COVER WITH THERMAL INSULATION AS PER OPSD 1109.030.
- SEWER CONNECTIONS ARE TO BE MADE ABOVE THE SPRINGLINE OF THE SEWERMAIN AS PER CITY OF OTTAWA STANDARD DRAWING S11.111.1 & S11.2.
- SEWER MAINS TO BE CLASS 150 DR-18 OR APPROVED EQUIVALENT.
- CONTRACTOR TO TELEVIEW (CCTV) ALL PROPOSED SEWERS ON SITE. OUTLET CONNECTION TO THE MAIN AND PIPES 150mmØ OR GREATER PRIOR TO BASE COURSE ASPHALT. UPON COMPLETION OF CONTRACT, THE CONTRACTOR IS RESPONSIBLE TO FLUSH AND CLEAN ALL SEWERS & APPURTENANCES.
- DYE TESTING IS TO BE COMPLETED ON SANITARY SERVICE TO CONFIRM PROPER CONNECTION TO SANITARY SEWER MAIN.

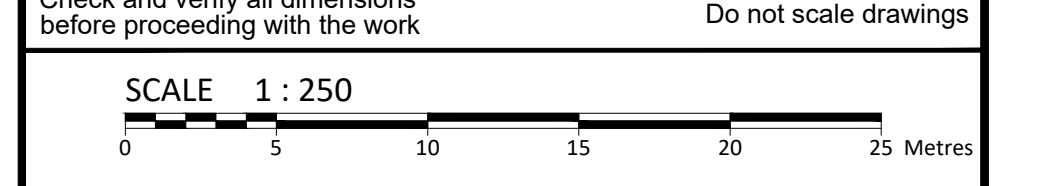


**LEGEND**

CONCRETE BARRIER CURB	LIMIT OF CONSTRUCTION
CONCRETE WALKWAY	DRAINAGE SWALE
PROPOSED ASPHALT	DRAINAGE DITCH
LSCB#	LANDSCAPING CATCHBASIN
CBM#	CATCHBASIN MANHOLE
CB#	CATCHBASIN
MH#A	SANITARY SEWER MANHOLE
HYD	FIRE HYDRANT
W	WATER VALVE
WM	WATER METER
RM	REMOTE WATER METER
95.50	SURFACE ELEVATION
95.50 (S)	SWALE ELEVATION
1/95.50	TOP OF WALL ELEVATION
9/94.25	BOTTOM OF WALL ELEVATION
←	OVERLAND FLOW ROUTE
~	SILT FENCE BARRIER
⊗	STRAW BALE CHECK DAM
⊙	MUD MAT

No.	Revisions	Date
3	RE-ISSUED FOR SITE PLAN CONTROL APPROVAL	FEB. 09, 2024
2	RE-ISSUED FOR SITE PLAN CONTROL APPROVAL	OCT. 06, 2023
1	ISSUED FOR REVIEW	MAY 12, 2023

Check and verify all dimensions before proceeding with the work. Do not scale drawings.



**McINTOSH PERRY**  
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Client: **CSV ARCHITECTS**  
190 O'CONNOR STREET, SUITE 100  
OTTAWA, ON K2P 2R3

Project: **MIXED USE BUILDING**  
3745 ST. JOSEPH BOULEVARD

Drawing Title: **SITE SERVICING PLAN**

Scale:	1:250	Project Number:	CCO-23-3287
Drawn By:	NV	Checked By:	AM
Designed By:	NV	Drawing Number:	C102

FILENAME: I:\Ottawa\01 Project - Proposals\2023\06\CCO-23-3287\_CSP\_Multi-Use Building\_3745 St. Joseph Blvd12 - Overview\CCO-23-3287 Presentation.dwg  
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FILE NO. D07-12-23-0059, PLAN NO. 18974