

RECORD OF REVISIONS

ISSUED FOR SITE PLAN CONTROL REV. 3	SEPTEMBER 29, 2022
ISSUED FOR 66% REVIEW	JULY 15, 2022
ISSUED FOR SITE PLAN CONTROL REV. 2	JUNE 7, 2022
ISSUED FOR SITE PLAN APPROVAL	DECEMBER 16, 2021

**LEGEND:**  
OD - Outside diameter of pipe

**NOTES:**  
A This OPSD to be read in conjunction with OPSD 3940.150.  
B If a steel grate is required, refer to OPSD 804.05.  
C Class of concrete: 30MPa.  
D Cover to reinforcing bars 70mm ± 20mm.  
E All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2017	Rev 2	
<b>CONCRETE HEADWALL</b> FOR PIPE LESS THAN 900mm DIAMETER	<b>OPSD 804.030</b>		

PIPE DIA	ENDWALL DIMENSIONS							
	A	B	C	D	E	F	G	H
600	1050	2400	2725	1400	300	75	1525	2350
675	1125	2400	2725	1475	300	75	1600	2425
750	1200	2400	2725	1550	300	75	1675	2500
825	1275	2400	2725	1625	300	75	1755	2575
900	1350	2400	2725	1700	300	75	1825	2650
975	1425	2400	2725	1775	375	150	1975	2725
1050	1500	3000	3400	1850	375	150	2050	3100
1200	1650	3000	3400	2000	375	150	2200	3250
1350	1800	3000	3400	2150	375	150	2350	3400
1500	1950	3000	3400	2300	375	150	2500	3550
1650	2100	3000	3400	2450	375	150	2650	3700
1800	2250	3000	3400	2600	375	150	2800	3850
2400	3000	3000	3400	3350	375	150	3550	4600

**NOTES:**  
A This OPSD to be read in conjunction with OPSD 3940.150.  
B Class of concrete: 30MPa.  
C Cover to reinforcing bars: 75mm ± 20mm.  
D Granular backfill to be placed to 300mm min thickness on all sides.  
E All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2017	Rev 1	
<b>CONCRETE HEADWALL</b> FOR SEWER OR CULVERT PIPE OUTLET	<b>OPSD 804.040</b>		

**NOTES:**  
1 The thickness of the rip-rap layer shall be at least 1.5 times the rip-rap mean diameter.  
A All dimensions are in millimetres unless otherwise shown.

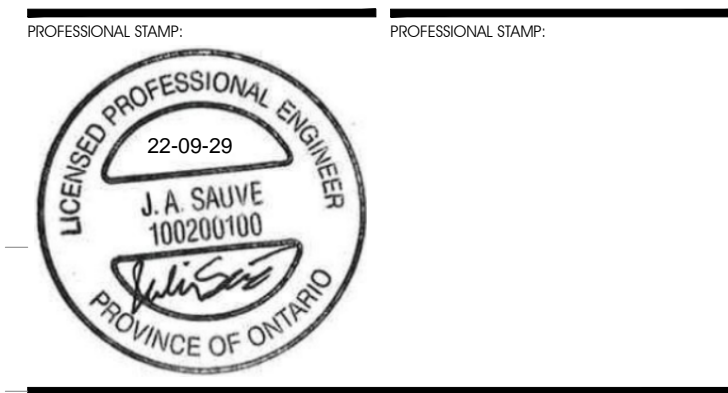
ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2018	Rev 3	
<b>GENERAL RIP-RAP LAYOUT</b> FOR SEWER AND CULVERT OUTLETS	<b>OPSD 810.010</b>		

**NOTES:**  
1 Walls shall be founded on undisturbed soil having a minimum bearing capacity at ultimate limit states of 200kPa for Type I and 300kPa for Type II and Type III.  
2 Excavation for toe walls shall be backfilled with free draining granular material.  
3 10mm preformed joint filler, Type A, non-extruding and resilient bituminous type as specified.  
4 Cold applied rubber asphalt joint sealing compound.  
5 Where specified, wall drains shall be installed as per OPSD 3190.100.  
6 150mm dia perforated pipe subdrain wrapped in geotextile.  
A Maximum height of slope above top of wall is 4m.  
B Concrete for toe walls shall be 30MPa.  
C All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2010	Rev 2	
<b>WALLS</b> RETAINING CONCRETE TOE WALL	<b>OPSD 3120.100</b>		

**APPROVED**  
By Adam Brown at 9:43 am, Feb 07, 2023

**ADAM BROWN**  
MANAGER, DEVELOPMENT REVIEW - RURAL  
PLANNING, REAL ESTATE & ECONOMIC DEVELOPMENT  
DEPARTMENT, CITY OF OTTAWA



PROJECT TITLE:  
**FASTFRATE OTTAWA WAREHOUSE AND DISTRIBUTION FACILITY**

SCALE: NONE

SCHMIE ST., OTTAWA, ON

**DETAILS**

DRAWN BY: D.CANN  
DATE: J.SAUVÉ  
APPROVED BY: J.SAUVÉ  
PROJECT DATE: NOVEMBER 26, 2021  
ISSUED DATE: NOVEMBER 26, 2021  
REVISION NUMBER:  
CLIENT PROJECT #: **A001083**  
PROJECT #:  
DRAWING NUMBER: **C018**

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