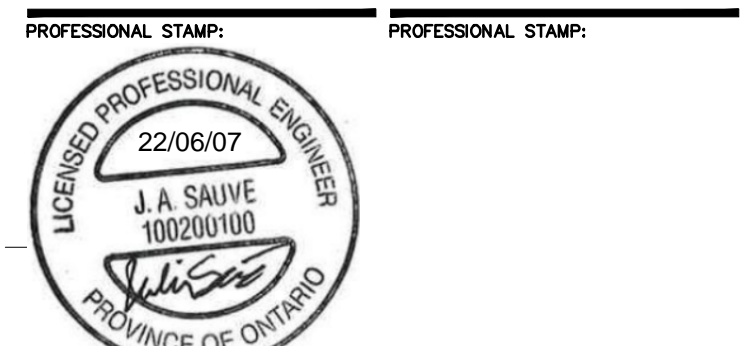


RECORD OF REVISIONS:

1	ISSUED FOR SITE PLAN CONTROL REV. 2	JUNE 7, 2022
2	ISSUED FOR SITE PLAN APPROVAL	DECEMBER 16, 2021

NUMBER: REVISION: DATE: (MM/DD/YYYY)

PRELIMINARY 33%
NOT FOR CONSTRUCTION



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CONSULTANT LOGO:

PROJECT TITLE:
- FASTFRATE OTTAWA WAREHOUSE AND DISTRIBUTION FACILITY
SCALE: NONE
SOMME ST. OTTAWA, ON

DETAILS

DRAWN BY: D.CANN DRAWING NUMBER:
DATE: J.SAUVE
REVIEWED BY: J.SAUVE **C017**
APPROVED BY:
PRINT DATE: REVISION NUMBER:
ISSUED DATE: NOVEMBER 26, 2021
CLIENT PROJECT #: PROJECT #:

A001083

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TABLE 1 - NUMBER OF RODS IN FRAME

PIPE DIA	No of RODS
450	1
525	2
600	3
675	4
750	5
825	6
900	7
975	8
1050	9
1200	10

TABLE 2 - NUMBER OF RODS IN FIXED UPPER FRAME

PIPE DIA	No of RODS
1350	1
1500	2
1650	3
1800	4
1950	5
2100	6
2250	7
2400	8

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2018 Rev 2
GRATING FOR CONCRETE ENDWALL
OPSD 804.050

SPLICE BOLT AND NUT

LOCATION	LENGTH
At posts	32
At structure anchor	36

ARRANGEMENT AT POST WOODEN POST SHOWN

NOTES:
1 Base metal thickness of rail shall be 2.67mm nominal and 2.44mm minimum.
2 Holes only in rail.
3 All dimensions subject to manufacturing tolerances unless otherwise indicated.
4 All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2010 Rev 2
GUIDE RAIL SYSTEM, STEEL BEAM RAIL COMPONENT
OPSD 912.101

POST BOLT AND HOLE

Note	Post Bolt Size and Type
1	16x460 BH
2	18 18x310 CoB

NOTES:
1 Washer shall not be installed at front face of rail. One bolt located at centre of steel beam guide rail.
A Wooden posts and offset blocks shall be 150x150mm. Tops to have 25mm chamfer.
B Steel beam guide rail mounting heights shall be as specified.
C This OPSD to be read in conjunction with OPSD 912.101 and 912.102.
D All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2010 Rev 2
GUIDE RAIL SYSTEM, STEEL BEAM WOODEN POST ASSEMBLY INSTALLATION - SINGLE RAIL
OPSD 912.140

LEGEND:
Ø - Inside diameter

NOTES:
1 Height of fill is measured from the finished surface to top of pipe.
2 The pipe bed shall be compacted and shaped to receive the bottom of the pipe.
3 Pipe culvert frost treatment shall be according to OPSD 803.030 and 803.031.
4 Condition of excavation is symmetrical about centreline of pipe.

CLEARANCE TABLE

Type	Inside Diameter mm	Clearance mm
TYPE 1 OR 2 SOIL	900 or less	300
	Over 900	500
TYPE 3 SOIL	900 or less	300
	Over 900	500
TYPE 4 SOIL	900 or less	300
	Over 900	500

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2014 Rev 3
FLEXIBLE PIPE EMBEDMENT AND BACKFILL EARTH EXCAVATION
OPSD 802.010

LEGEND:
S - Span of pipe arch

NOTES:
1 Height of fill is measured from the finished surface to top of pipe. Height of fill over pipe shall be according to OPSD 805.020.
2 For width 0.75S, granular material shall be uncompacted for its full depth and fine graded to shape of bottom of the pipe arch.
3 Pipe culvert frost treatment shall be according to OPSD 803.030 and 803.031.
4 Condition of excavation is symmetrical about centreline of pipe.

CLEARANCE TABLE

Pipe Span mm	Clearance mm
900 or less	300
Over 900	500

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2015 Rev 3
FLEXIBLE PIPE ARCH EMBEDMENT AND BACKFILL EARTH EXCAVATION
OPSD 802.020

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