EPCOR PROVIDING MORE

v. 2.0

Bylaw 19627
EPCOR Drainage Services and Wastewater Treatment Bylaw Code of Practice

Flow Monitoring Point Installation & Maintenance Requirements

APPROVED:

Cindy Shepel, Director, Drainage Operations

April _____, 2022

This Code of Practice, adopted by EPCOR Water Services Inc., contains written requirements, standards, specifications, procedures, protocols or guidelines that form part of the Drainage Services Guidelines and are binding on all Customers pursuant to Bylaw 19627.

Schedule 2, s. 2.3(d)

1.0 Application

1.1 Pursuant to Bylaw 19627, the owner of a premises serviced by the sewerage system shall install and maintain an accessible flow monitoring point on each pipe leaving the property:

(a) when the pipe is new;

(b) when the premises is redeveloped; or

(d) when required to do so by EWSI.

Schedule 2, s. 4.3(a)

1.2 The owner of a premises shall ensure that EWSI has a safe and reasonable means of accessing the flow monitoring point.

Schedule 2, s. 4.3(c)

1.3 This does not apply to:

(a) residential properties discharging only wastewater from domestic sources; or

(b) minor redevelopments exempted by EWSI.

Schedule 2, s. 4.3(d)

1.4 All required flow monitoring points must be installed and maintained in accordance with this Code of Practice provided in the Drainage Services Guidelines established by EWSI.

Schedule 2, s. 4.3(b)

1.5 Nothing in this Code of Practice exempts a person from the requirements, penalties and/or liabilities within all applicable municipal, provincial, or federal legislation or standards.

2.0 Installation Requirements

2.1 An acceptable flow monitoring point is a standard manhole having a minimum 1200mm diameter. See ATTACHMENT A, reproduced from EPCOR Design and Construction Standards for the City of Edmonton – Volume 3 Drainage for technical drawings.

2.2 The collar and cover for the flow monitoring point shall not exceed 200 mm above or 100 mm below grade.

2.3 Flow monitoring points shall be installed within the property lines or boundaries from where the wastewater originates.

2.4 If space limitations will not allow the installation of a standard 1200mm flow monitoring point then alternative plans may be submitted to EWSI for consideration. These alternative plans may include a 900mm flow monitoring point or dipwell (standpipe) which is a vertical pipe that extends from a sewer pipe for purpose of obtaining a wastewater sample.

2.5 A dipwell (standpipe) must meet the following criteria:

(a) EWSI must be able to view the flow;

(b) it must have a minimum diameter of 150mm (6 inches);

(c) it must have a removable cap; and

(d) it must have a sheltered and tamper proof enclosure to accommodate both automated sampling and/or flow monitoring equipment.

3.0 Maintenance Requirements

3.1 The sewer pipe at the base of the flow monitoring point must be exposed (open) to the wastewater flow.

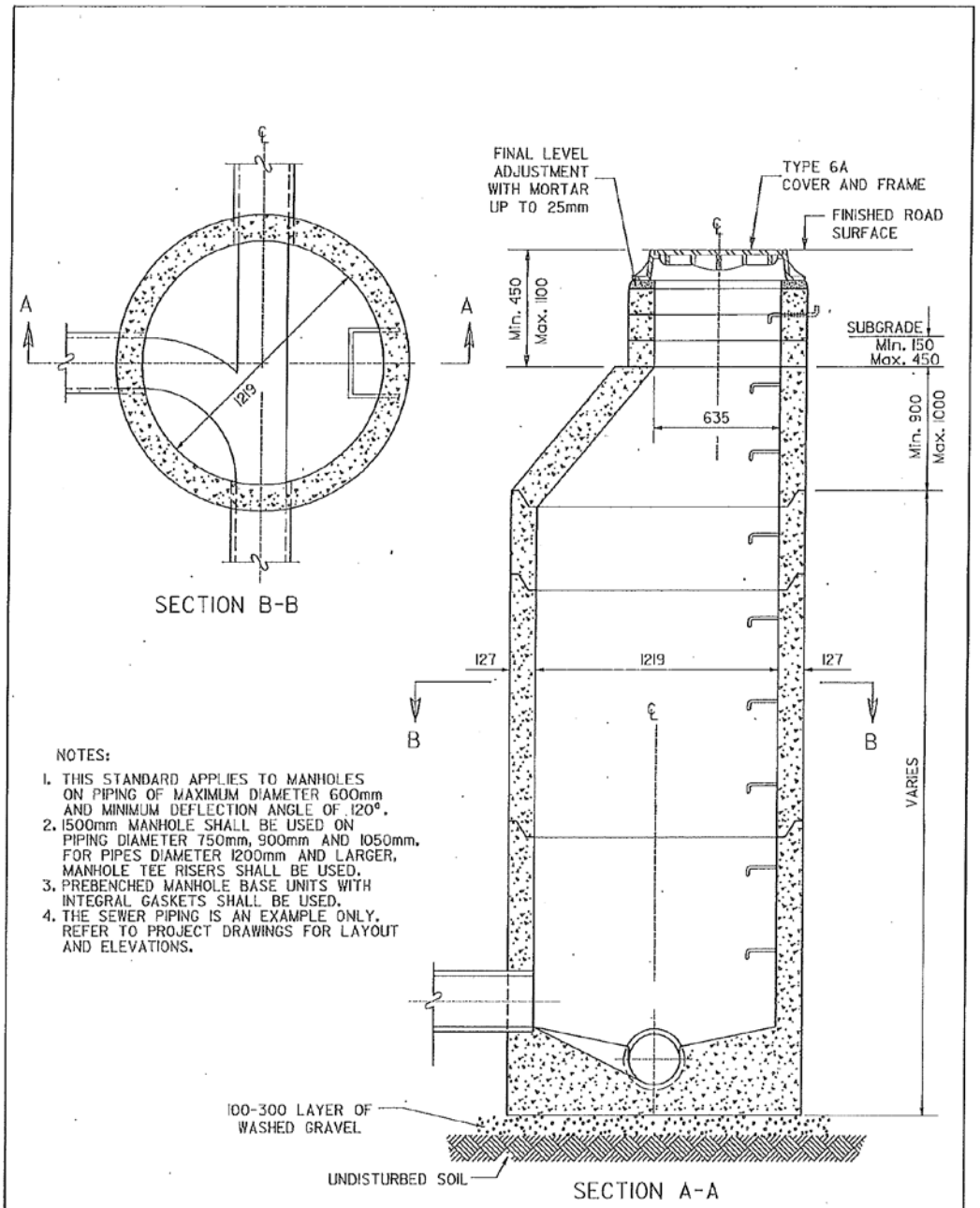
3.2 The flow monitoring point must be benched where the surface contouring at the base of a flow monitoring point will confine the flow of sewage to avoid the accumulation of deposits.

3.3 The flow monitoring point must be free of obstructions and prohibited wastes (as defined in Bylaw 19627, Schedule 2, Appendix A) at all times.

3.4 The manhole collars and covers must be aligned with the interior walls or cone at all times.

Intentional blank page

ATTACHMENT A

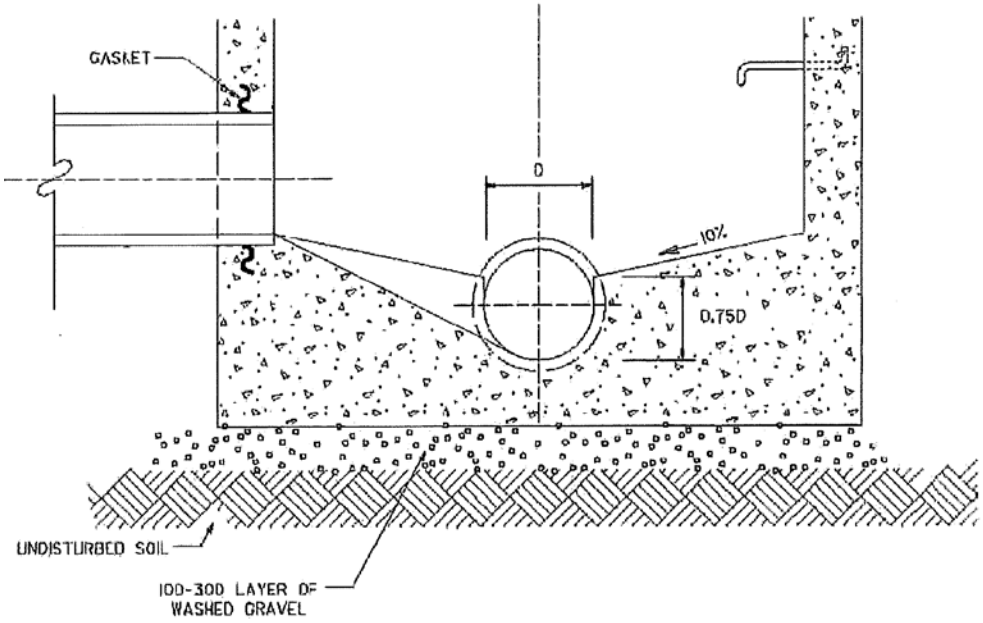


THE CITY OF Edmonton STANDARD DRAWING

STANDARD 1200 MANHOLE FOR PIPING UP TO 600mm DIAMETER WITH TYPE 6A COVER AND FRAME

Date Approved:	Drawn By:	Approved	Revision #	Drawing #
MAR-03-15	J.L			7013
Scale: NTS	Checked By: DJ			

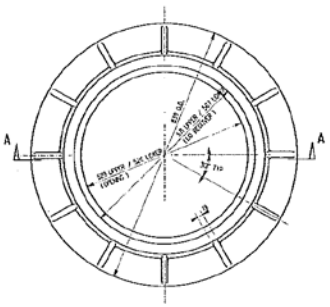
December 10, 2014 mfp: spec7013.dgn



THE CITY OF Edmonton
STANDARD DRAWING

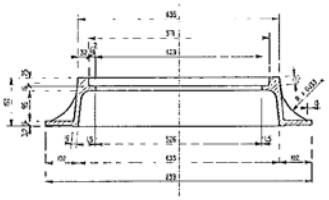
BENCHING DETAIL
FOR STANDARD 1200 MANHOLE

Date Approved: 98-11-16	Drawn By: J.L	Approved	Revision # 0	Drawing # 7020
Scale: NTS	Checked By: MJB			

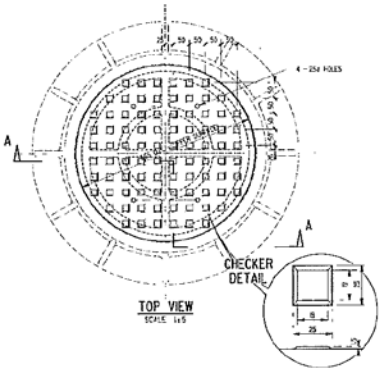


TOP VIEW
SCALE 1:5

No 6 STANDARD FRAME FOR MANHOLE AND ROUND CATCH BASIN TOP
(WEIGHT = 63kg)

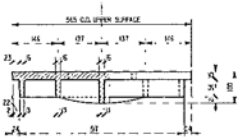


SECTION A-A
SCALE 1:5



TOP VIEW
SCALE 1:5

No 6A STANDARD MANHOLE COVER
(WEIGHT = 54.5kg)



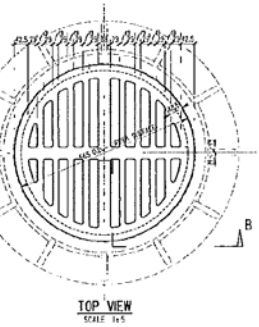
SECTION A-A
SCALE 1:5

TABLE 1 - MANUFACTURING TOLERANCES

1. NO ELEVATION SHALL BE ACCEPTABLE FOR ENGAGING WHICH ARE LESS THAN 0mm
2. ALL DIMENSIONS GREATER THAN 600mm SHALL CONFORM TO ±3mm TOLERANCE.

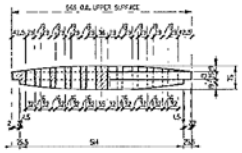
NOTE:

1. THIS DRAWING REPRESENTS DIMENSIONAL INFORMATION FOR PRODUCTS THAT HAVE BEEN PROVIDED FOR THE CITY HISTORICALLY. ALTERNATE DIMENSIONS AND DETAILS MAY BE PROPOSED, PROVIDING ALL ALTERNATIVE PRODUCTS AND COMPONENTS ARE FULLY INTERCHANGEABLE WITH THESE PRODUCTS, ALL MUST STATES PROVIDE THE SAME HYDRAULIC CAPACITY AS THESE PRODUCTS. BY PROVIDING THE SAME GENERAL LAYOUT, AND MEET WHERE THE HEIGHTS OF ALTERNATE PRODUCTS ARE WITHIN +/- 25 OF THOSE PRODUCTS AND THE PRODUCTS MEET THE PROOF LOAD TEST REQUIREMENTS FOR 10-20 LOADING AS OUTLINED IN AASHTO M306 LATEST EDITION.



TOP VIEW
SCALE 1:5

No 6B STANDARD ROUND CATCH BASIN TOP
(WEIGHT = 90kg)



SECTION B-B
SCALE 1:5

SPECIFICATIONS

1. MATERIAL SPECIFICATIONS:
   FRAME AND COVER - GREY CAST IRON TO CONFORM TO CLASS 35B ASTM AND LATEST EDITION.
2. CASTINGS SHALL BE PRODUCED TO THE DIMENSIONS SHOWN AND WITHIN THE TOLERANCES NOTED IN TABLE 1 - MANUFACTURING TOLERANCES.
3. COATED CASTINGS WILL NOT BE ACCEPTED.
4. CASTINGS SHALL BE MARKED WITH THE PROPER CONFIGURATION SYMBOLS WHICH WILL INCLUDE:
   a) SERIES DESIGNATION CITY OF EDMONTON STANDARD
   b) FOUNDRY IDENTIFICATION SYMBOL AND YEAR OF CASTING AND OTHER REQUIREMENTS AS PER AASHTO M306 STANDARD.
5. ALL CASTINGS WILL BE FREE OF DEFECTS, TRUE TO PATTERN AND FREE FROM CRACKS, GAS HOLES, BLANKS AND EXCESSIVE SHRINKAGE. SURFACES OF THE CASTING SHALL BE FREE FROM BURNT ON SAND AND SHALL BE REASONABLY SMOOTH.
6. MATING SURFACES SHALL BE MACHINED SUCH THAT CASTINGS SHALL NOT ROCK WHEN INSTALLED. THE MANUFACTURER SHALL TRIAL FIT THE CASTINGS AGAINST A TRIAL FRAME OR COVER.

STRUCTURAL DETAIL DRAWING NO. S-207

Edmonton
INFRASTRUCTURE SERVICES
DRAINAGE SERVICES

No. 6 STANDARD FRAME, COVER AND ROUND CATCH BASIN TOP
CONSTRUCTION DETAILS

LOCATION:

SURV. DRWG	AGRMT	PLAN FILE NO.	PROJECT NO.
-	-	-	-

DATE: MAY 02/07
SCALE: -
DRAWING NO.: 7043A 7043B
SHEET - OF -