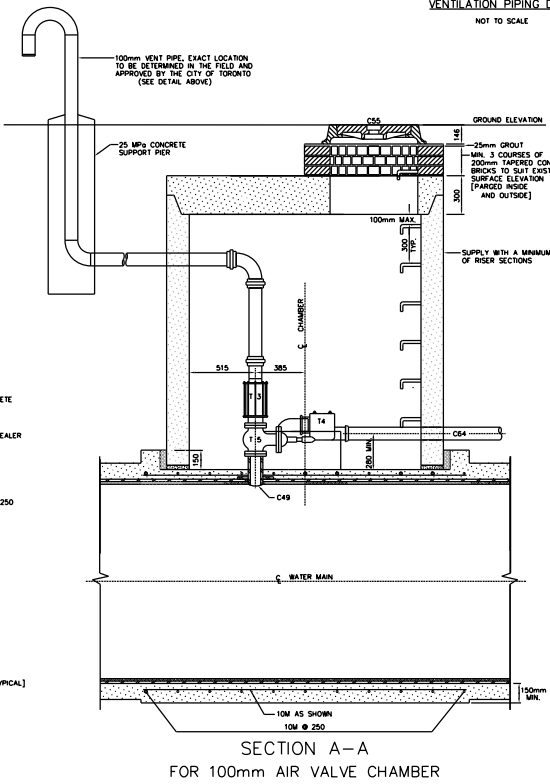
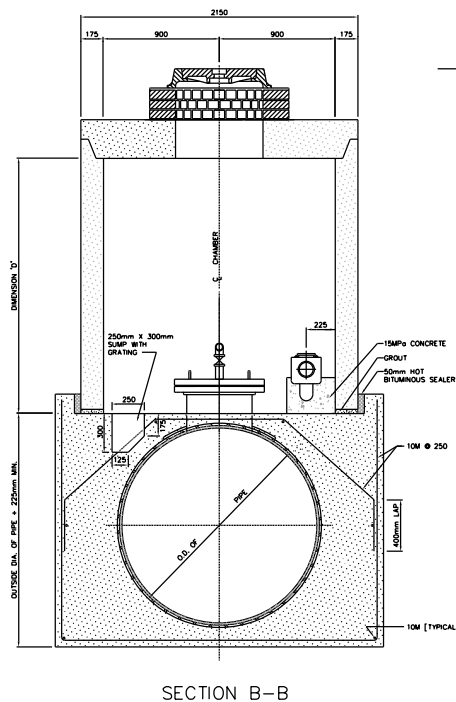
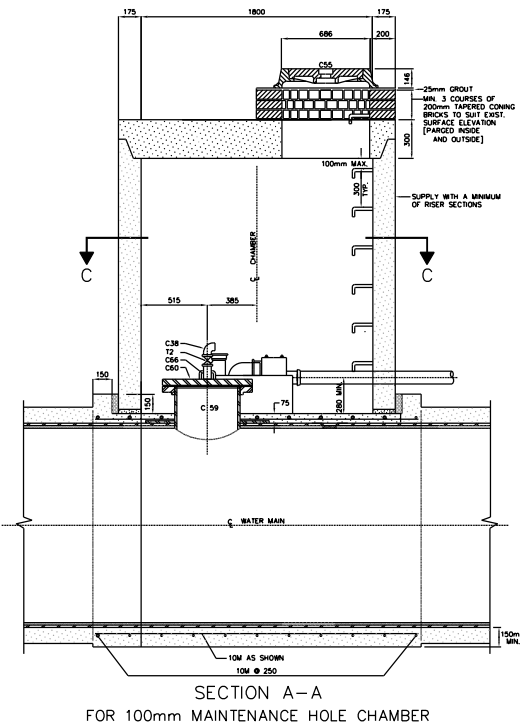


- NOTES
- 1 PRECAST MAINTENANCE HOLE A.S.T.M. C-478-72 (REINFORCED) RUBBER GASKET JOINTS.
 - 2 PROVIDE SUMP PIT WITH GRATING IN ALL CHAMBERS AND SLOPE CHAMBER FLOOR TO SUMP 10mm PER METRE.
 - 3 DRAIN CONNECTION TO SEWERS TO BE MADE BY THE CONTRACTOR, UNLESS OTHERWISE STATED IN THE GENERAL SPECIFICATIONS.
 - 4 FOR CHAMBERS UNDER 2 METRES IN DEPTH, STANDARD STEPS MAY REPLACE THE LADDER.
 - 5 STANDARD STEPS IN THE CHIMNEY TO BE OF THE REMOVABLE TYPE, AND NOT TO PROJECT MORE THAN 125mm BEYOND WALL.
 - 6 CHAMBERS DEEPER THAN 4 METRES FROM SURFACE TO FLOOR, ONE OR MORE SAFETY GRATING SHALL BE INSTALLED. FOR GRATING DETAIL, SEE DWG. NO. _____
 - 7 ALL ALUMINUM SURFACES CONTACTING CONCRETE TO RECEIVE ONE COAT OF BITUMINOUS PAINT.
 - 8 BACKFILLING TO BE BROUGHT UP EVENLY IN 300mm LAYERS AROUND CHAMBER.
 - 9 SET BOTTOM SECTION OF CHAMBER ON 13mm STEEL SHIMS LEVEL AS REQUIRED AND COMPLETELY FILL VOID WITH APPROVED NON-SHRINK GROUT.
 - 10 ALL JOINTS TO BE MORTARED ON OUTSIDE AND INSIDE.
 - 11 PRIOR TO PLACING PRE-CAST ROOF SLAB ON CHAMBER THE FABRICATED MAINTENANCE HOLE COVER (C60) SHALL BE LOWERED INTO THE CHAMBER AND BE STORED AND PROTECTED UNTILL ITS INSTALLATION AFTER COMPLETION OF CEMENT MORTAR LINING.



MAINTENANCE HOLE CHAMBER

MARK No.	SUPPLIED BY CONTRACTOR	MARK No.	SUPPLIED BY CONTRACTOR
C38	1-50mm GALVANIZED STREET ELBOW	C49	1-100mm FABRICATED NOZZLE
C39	1-FABRICATED MANHOLE FRAME	C61	16-M16 x 75mm BOLTS & NUTS
C50	1-FABRICATED MANHOLE COVER	C61	CNCH ANCHORS WITH M16 DIA. S.S. BOLT & NUT
C61	20-M30 x 125mm S.S. BOLTS & NUTS	C62	2-100mm GASKETS [FULL FACE, ONE PIECE]
C61	16-M16 x 75mm S.S. BOLTS & NUTS	C63	1-100mm RUNNING TRAP WITH CLEANOUT & COVER
C61	CNCH ANCHORS WITH M16 DIA. S.S. BOLT & NUT	C64	1-100mm SCL PIPING
C62	1-MANHOLE GASKET [FULL FACE, ONE PIECE]	C65	1-SUMP FRAME & GRATING [ALUMINUM]
C63	1-100mm TRAP WITH CLEANOUT & COVER	C68	STANDARD ALUMINUM STEPS OR LADDERS
C64	1-100mm SCL PIPING	C39	1-13mm MALE INLET SINK FAUCET, ROUGH BRASS WITH HOSE END, EMCO #3710 OR EQUIVALENT
C65	STANDARD ALUMINUM STEPS OR LADDERS	C55	1-CAST IRON SQUARE FRAME WITH CIRCULAR COVER AND PLUG FOR VALVE CHAMBERS AS PER OPS-402.010
C66	1-50mm x 100mm LG. HEAVY DUTY BRASS NIPPLE, THREADED, TAPERED ENDS		
C55	1-CAST IRON SQUARE FRAME WITH CIRCULAR COVER AND PLUG FOR VALVE CHAMBERS AS PER OPS-402.010		

MARK No.	SUPPLIED BY CITY OF TORONTO	MARK No.	SUPPLIED BY CITY OF TORONTO
T2	1-50mm GATE VALVE [SCREWED]	T3	1-100mm VENT-D-MAT SERIES RBX AIR RELEASE VALVE [FLANGED] OR EQUIVALENT
T4	1-100mm BACKWATER CHECK VALVE	T4	1-100mm BACKWATER CHECK VALVE
		T5	1-100mm GATE VALVE [FLANGED]

• SUPPLY ONLY IF REQUIRED

MAINTENANCE HOLE CHAMBER (M.H.) CHAMBER

CHAMBER No.	CHAMBER	SURFACE ELEV.	WATERMAIN ELEV.	DIFFERENCE IN METRES	'D' DIA.	DRAIN TO BE INSTALLED	DIRECTION OF DRAIN OUTLET	COVER LOCATION	FOR LOCATION REFER TO PLAN No.

100 mm AIR VALVE CHAMBER

CHAMBER No.	CHAMBER	SURFACE ELEV.	WATERMAIN ELEV.	DIFFERENCE IN METRES	'D' DIA.	DRAIN TO BE INSTALLED	DIRECTION OF DRAIN OUTLET	COVER LOCATION	FOR LOCATION REFER TO PLAN No.



Toronto Engineering & Construction Services

Title
Subfile1
Subfile2

No.	DATE	REVISIONS	INITIAL	SIGNED

GENERAL MANAGER, TORONTO WATER	DIRECTOR, Design and Construction Linear Underground Infrastructure
EXECUTIVE DIRECTOR, Engineering & Construction Services	MANAGER, Design and Construction Linear Underground Infrastructure

DESIGN				DRAWN				CHECKED				CONTRACT No. X-X			
SCALE				SCALE				DRAWING NUMBER				T-1110.07-4			
DATE				DATE				DRAWING NUMBER				T-1110.07-4			

SHEET X OF X