

Regional Municipality of Halton



Water and Wastewater Standard Drawings

Revision Information Sheet

March 2026 - RH Drawings - Version 5 To 8
 (*V6 & V7 skipped to align with LDM Version #)

Superseded/Cancelled		Revised/New		Remarks
RH Old	Revision	RH new	Revision	
100.010	January 2014 Rev. 1			Shrub Planting Removed See Regional Road Landscaping Guidelines and Specifications
100.020	January 2014 Rev. 1			Deciduous Tree Planting – Bare Root Removed See Regional Road Landscaping Guidelines and Specifications
100.030	January 2014 Rev. 1			Deciduous Tree Planting – 40–60mm Caliper Removed See Regional Road Landscaping Guidelines and Specifications
100.040	January 2014 Rev. 1			Deciduous Tree Planting – 70mm & Larger Caliper Removed See Regional Road Landscaping Guidelines and Specifications
100.050	January 2014 Rev. 1			Coniferous Tree Planting – 1.25m Height and Smaller Removed See Regional Road Landscaping Guidelines and Specifications
100.060	January 2014 Rev. 1			Coniferous Tree Planting – 1.50m Height and Larger Removed See Regional Road Landscaping Guidelines and Specifications
		304.010	October 2025 Rev. 0	Plan View Wastewater Lateral Layout (Typical) New Drawing added
		304.020	October 2025 Rev. 0	Wastewater Service Connection Separation to Basement Slab Elevation New Drawing added
		304.030	October 2025 Rev. 0	Wastewater Laterals in Areas where the Depth of the Sewer Main Obvert exceeds 4.5m from the Road Centreline Elevation New Drawing added
402.020	March 2019 Rev. 3	402.020	November 2024 Rev. 4	New requirement for a Flanged Coupling Adapter at the restrained joint. <i>A Flanged Coupling Adapter gives:</i> <ul style="list-style-type: none"> • more precise restraint of the joint • standardized flange interface • potentially easier installation and replacement

402.060	March 2019 Rev. 0	402.060	November 2024 Rev. 1	Adds that the restrained joint must now include a Flanged Coupling Adapter (FCA)
402.070	July 2019 Rev. 0	402.070	November 2024 Rev. 1	Adds the flanged coupling adapter requirement, no changes to chamber dimensions or technical requirements.
402.080	July 2019 Rev. 0	402.080	November 2024 Rev. 1	Adds the flanged coupling adapter requirement, no changes to chamber dimensions or technical requirements.
2000.010	January 2014 Rev. 1			Velocity and Discharge for 200mm to 375mm Circular Pipe – Sheet 1 of 10 Removed
2000.020	January 2014 Rev. 1			Velocity and Discharge for 200mm to 375mm Circular Pipe – Sheet 2 of 10 Removed
2000.030	January 2014 Rev. 1			Velocity and Discharge for 450mm to 750mm Circular Pipe – Sheet 3 of 10 Removed
2000.040	January 2014 Rev. 1			Velocity and Discharge for 450mm to 750mm Circular Pipe – Sheet 4 of 10 Removed
2000.050	January 2014 Rev. 1			Velocity and Discharge for 825mm to 1200mm Circular Pipe – Sheet 5 of 10 Removed
2000.060	January 2014 Rev. 1			Velocity and Discharge for 825mm to 1200mm Circular Pipe – Sheet 6 of 10 Removed
2000.070	January 2014 Rev. 1			Velocity and Discharge for 1350mm to 1950mm Circular Pipe – Sheet 7 of 10 Removed
2000.080	January 2014 Rev. 1			Velocity and Discharge for 1350mm to 1950mm Circular Pipe – Sheet 8 of 10 Removed
2000.090	January 2014 Rev. 1			Velocity and Discharge for 2100mm to 2400mm Circular Pipe – Sheet 9 of 10 Removed
2000.10	January 2014 Rev. 1			Velocity and Discharge for 2100mm to 2400mm Circular Pipe – Sheet 10 of 10 Removed
2002.010	January 2014 Rev. 1			Peaking Factors for Wastewater Main (Harmon Formula) Removed
2003.010	January 2014 Rev. 1			Values of Hydraulic Elements of Circular Section for Various Depths of Flow Removed
2004.010	January 2014 Rev. 1			Vitrified Clay Pipe – Class Requirements Removed

RH Drawings Version 5 to Version 6

Superseded/Cancelled		Revised/New		Remarks
RH Old	Revision	RH new	Revision	
200.040	0	200.040	1	<p>“HEAVY DUTY SILT FENCE”</p> <ul style="list-style-type: none"> - Removed ‘Barrier’ from title - Connection at ‘steel’ changed to Connection at ‘T-post’ - Remove mm from ‘150 MIN’ and ‘300 MIN’ on Key-in drawing - Change ‘Typ’ to ‘(Typical)’ - Edit description of Connection at T-Post Drawing to ‘ Plastic locking tie wrap or wire equivalent’
301.01	1	301.01	2	<p>“PRECAST CATCHBASIN WITHOUT SUMP”</p> <ul style="list-style-type: none"> - On Section A-A change description ‘Kor ‘N Seal’ to ‘Pipe-to-manhole flexible connector’ grout or approved equivalent
303.01	2	303.01	3	<p>“INTERNAL DRUP STRUDCTURE FOR MANHOLES special consideration only”</p> <ul style="list-style-type: none"> - On drawing, change all ‘minimum’ to ‘min.’ - Note 10: Change ‘The Region of Halton’ to ‘Halton Region’ - Move see note 4 from the top of the drawing to the bottom near the outlet pipe - Put ‘See Detail’ in brackets - In Clamp Detail, change ‘16x75 MM’ to ‘16 – 75mm’ and ‘6x40 MM’ to ‘6 – 40mm’
401.010	0	401.010	1	<p>“SWABBING PORT CHAMBER DETAIL”</p> <ul style="list-style-type: none"> - Edits to notes 1, 2, 8, 9, - Add notes 4, 10, 12 - Add note 10 ‘Petrolatum coating on all fittings and bolts’ - On Plan Diagram: <ul style="list-style-type: none"> o Remove ‘Alum. Steps refer OPSD 405.020’ and ‘Adjustment units see note 4’ o On Plan Diagram, add ‘Manhole’ frame and cover per OPSD 401.010 - Updates to Section A-A diagram

Superseded/Cancelled		Revised/New		Remarks
RH Old	Revision	RH new	Revision	
402.010	0			<p>“PRECAST VALVE CHAMBER FOR THREE VALVES 150 MM TO 200 MM”</p> <p>- DELETED</p>
402.020	2	402.020	3	<p>“PRECAST VALVE CHAMBERS FOR MAXIMUM 4 VALVES 150mm TO 300mm”</p> <ul style="list-style-type: none"> - Add Note 4,11, 13 - Revisions to notes 8, 9 - Add dimensions 300 x 300 on the sump hole in Plan Diagram - Remove ‘Alum. steps refer OPSD 405.020’ from Top View Diagram - On Section A-A Diagram: <ul style="list-style-type: none"> ○ Move dimensions 1700 min and 300 min inside the chamber ○ Add 600 min length measurement ○ Change ‘min 100 mm of 20 mm’ crushed clear stone to ‘150mm of 19mm’ ○ Add ‘2% sloped floor directed to sump hole’ at base ○ Added valve box - On Section B-B Diagram: <ul style="list-style-type: none"> ○ Add ‘Waterproof Joints (note 13)’ ○ Add diagram of alum steps – add note beside them ‘alum. steps refer to OPSD 405.020’ ○ Replace ‘Conc. blocking (typical)’ with ‘Adjustable valve support system’ ○ Remove 1700 min height dimension
402.030	0			<p>“ZONE ISOLATING VALVE CHAMBER 150mm TO 200mm”</p> <p>- DELETED</p>
402.040	2			<p>“ZONE ISOLATING VALVE CHAMBER 300mm & LARGER”</p> <p>- DELETED</p>
402.050	1			<p>“PRECAST VALVE CHAMBERS FOR MAXIMUM 3 VALVES 150mm TO 300mm AND MULTI UNIT SERVICE”</p> <p>- DELETED</p>
		402.060	0	<p>“PRECAST VALVE CHAMBER FOR SINGLE VALVE 150 mm TO 400 mm”</p> <p>- New drawing</p>

Superseded/Cancelled		Revised/New		Remarks
RH Old	Revision	RH new	Revision	
		402.070	0	“ZONE ISOLATING VALVE CHAMBER 150mm & LARGER” - New drawing
		402.080	0	“PRECAST VALVE CHAMBERS FOR MAXIMUM 3 VALVES 150mm TO 300mm” - New drawing
403.010	1	403.010	2	“1200mm PRECAST DRAIN CHAMBER” - Add Notes 4, 12, 15 - Revise Notes 1, 11, 13 - Add dimensions ‘300x300’ to Sump Hole on Plan Diagram - Add ‘fully restrained’ to flanged tee on For D.I. or P.V.C. Pipe Diagram - Section A-A Diagram: <ul style="list-style-type: none"> ○ Add ‘600 min.’ height at road make up ○ Add 1700 min. height ○ ‘150 mm max.’ changed to ‘200mm min. to 300mm max.’ ○ Change ‘Min. 100 mm of 20 mm crushed clear stone’ to ‘Min. 150mm of 19mm crushed clear stone’ ○ Remove ‘Sump hole 300 x 300’ note ○ Add ‘2% sloped floor directed to sump hole’ ○ Change ‘Conc. blocking (typical)’ to ‘Adjustable valve support system’ ○ Add ‘Waterproof joints (note 15)’
404.010	0	404.010	1	“PRECASE CHAMBER FOR COMBINATION AIR RELEASE/VACUUM BREAK VALVE” - Add Notes 3, 11 - Revisions to notes 1, 7, - Indicate ‘600 min.’ height at road make up - Add ‘Waterproof joints (note 11) - Add ‘2% sloped floor directed to sump hole’ - Change ‘Min. 100 mm of 20 mm crushed stone’ to ‘Min. 150mm of 19mm crushed clear stone’ - Change ‘Copper of PVC venting tube’ to ‘non-metallic flexible pipe (Halton for approval) or PVC venting tube’

Superseded/Cancelled		Revised/New		Remarks
RH Old	Revision	RH new	Revision	
404.011	0	404.011	1	<p>“TYPICAL LAYOUT COMBINATION AIR RELEASE/VACUUM BREAK VALVE”</p> <ul style="list-style-type: none"> - Add Notes 4, 6 - Revisions to Note 3 - On diagram, remove the lower ball valve (item 2), the threaded plug (item 3) and the spring return ball valve (item 4) <ul style="list-style-type: none"> o Diagram should now end after the first ball valve (item 2) and have the line connection (item 1) below - Remove Item 3 ‘Threaded plug’ from item list - Remove Item 4 ‘Threaded, stainless steel, spring return, 1000 WAG ball valve (or approved equal) with PTFE seals and seats (sample valve)’ from item list
404.012	0	404.012	1	<p>“100mm STAINLESS STEEL CHAMBER VENT”</p> <ul style="list-style-type: none"> - Revisions to notes 2, 3 - Add Notes 4, 6 - Edit Item Description 1: Replace ‘304 S.S.’ with ‘316 S.S.’ - Replace ‘Copper or PVC venting tube’ with ‘Non-metallic flexible pipe (Halton for approval) or PVC venting tube’
405.020	0	405.020	1	<p>“WALL BRACKET DETAIL FOR VALVE STEM EXTENSION”</p> <ul style="list-style-type: none"> - Edit Note 1 - In diagrams, edit all ‘Steel plates’ to ‘S.S. plates’ - End View edits: <ul style="list-style-type: none"> o ‘Female adapter cast iron to fit...’ changed to ‘Female adapter with locking screws to fit...’ o ‘10 mm dia. self locking pin’ changed to ‘10mm dia. S.S. locking bolt’
406.010	0	406.010	1	<p>“TRACER WIRE INSTALLATION IN VALVE CHAMBER, VALVE BOX AND SECONDARY VALVE BOX”</p> <ul style="list-style-type: none"> - No major changes. Has a new revision number.
		406.020	0	<p>“VALVE BOX INSTALLATIONS 100mm TO 300mm DIA. WATERMAINS”</p> <ul style="list-style-type: none"> - New drawing

Superseded/Cancelled		Revised/New		Remarks
RH Old	Revision	RH new	Revision	
		406.030	0	“FORCEMAIN TRACER WIRE INSTALLATION IN PRECASE HANDWELL WITH COVER” - New drawing
407.010	0	407.010	1	“HYDRANT INSTALLAION FOR RURAL ROAD SECTION” - Edit Note 2 - Replace all ‘Typ.’ With ‘(typical)’ throughout the diagram - ‘Clear stone bedding’ is replaced with ‘Granular A Bedding’ - ‘Clear stone 300 min. typ.’ changed to ‘Granular A 300 min. (Typical)’ - Replace description ‘Clear stone with filter cloth around valve and drain hole typ.’ to ‘Heavy duty filter cloth around clear stone, valve and drain hole (typical).’
408.010	0			“WATERMAIN AND WATER SERVICE INSULATION DETAIL: SITE SPECIFIC – APPROVED BY OWNERS REPRESENTATIVE (FORM 1)” - DELETED
		408.020	0	“WATERMAIN AND WATER SERVICE INSULATION DETAIL: SPECIAL CONSIDERATION ONLY” - New
		408.030	0	“WATERMAIN AND WATER SERVICE INSULATION DETAIL: SPECIAL CONSIDERATION ONLY” - New
409.01	1	409.010	2	“WATER SERVICE AND FIRE SERVICE CONNECTION INSTALLATIONS” - No major changes
		410.010	1	“PRV CONCRETE CHAMBER GENERAL NOTES AND PROCESS FLOW DIAGRAM” - New drawing - Minor Notes Update
		410.011	2	“PRV CONCRETE CHAMBER LAYOUT FOR 200mm OR LESS HIGH FLOW LINE AND 100mm OR LESS LOW FLOW LINE” - New drawing - Minor notes update

Superseded/Cancelled		Revised/New		Remarks
RH Old	Revision	RH new	Revision	
		410.012	2	“PRV CONCRETE CHAMBER LAYOUT FOR 200mm to 400mm HIGH FLOW LINE AND 150mm OR LESS LOW FLOW LINE” - New drawing - Minor notes update
		410.013	2	“PRV CONCRETE CHAMBER LAYOUT FOR 200mm to 400mm HIGH FLOW LINE AND 200mm TO 250mm LOW FLOW LINE” - New drawing - Minor notes update
		410.020	0	“PRV STEEL STATION GENERAL NOTES AND PROCESS FLOW DIAGRAM” - New drawing
		410.021	0	“PRV STEEL STATION LAYOUT FOR 200mm OR LESS HIGH FLOW LINE AND 100mm OR LESS LOW FLOW LINE” - New drawing
		410.022	0	“PRV STEEL STATION LAYOUT FOR 200mm TO 400mm HIGH FLOW LINE AND 250mm OR LESS LOW FLOW LINE” - New drawing
		411.010	0	“TYPICAL 50mm WATERMAIN ON CUL-DE-SAC” - New drawing
		411.020	0	“AUTOMATIC FLUSHING STATION DETAIL” - New drawing
		412.010	0	“BORING AND JACKING DETAIL FOR STEEL CASING ONLY” - New drawing
		413.010	0	“SERVICE MAIN LAYOUT SCHEMATIC” - New drawing
2001.01	5	2001.01	6	“SANITARY SEWER DESIGN SHEET”

Revision change from version 4.0 to version 5.0 of the manual is format only. All content changes take place between version 3.01 and 4.0