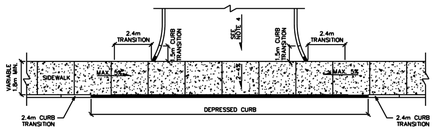
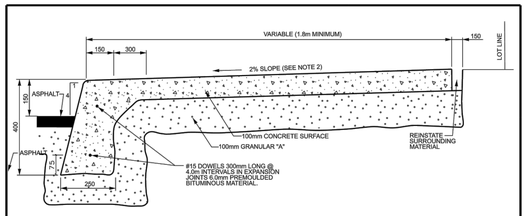
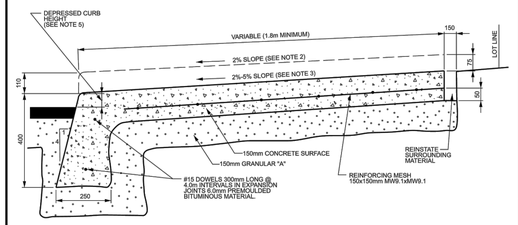


CURB RETURN AT A PRIVATE ENTRANCE ENTRANCE – UNSIGNALIZED INTERSECTION

Ottawa	CURB RETURN ENTRANCES - UNCONTROLLED INTERSECTIONS	DATE:	MARCH 2007
		REV. DATE:	MARCH 2021
		DWG. No.:	SC7.1



TYPICAL SIDEWALK SECTION

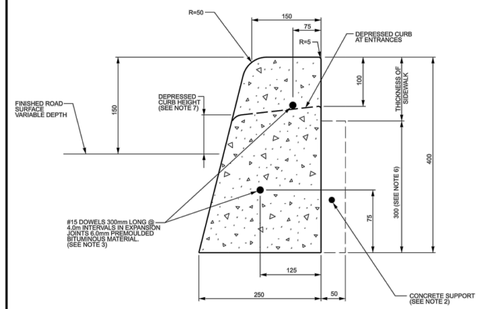


SECTION AT PRIVATE ENTRANCE AND PEDESTRIAN RAMPS

NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
2. THE MAXIMUM SLOPE IS NOT TO EXCEED 2%.
3. FOR CURB RAMPS, SLOPE OF 2% TO 5%, MAXIMUM 8%..
4. EXPANSION AND DUMMY JOINTS AS PER SC5.
5. DEPRESSED CURB HEIGHT - FOR PEDESTRIAN CURB RAMPS 0 TO 6 mm AND FOR PRIVATE ENTRANCES 0 TO 13 mm.

N.T.S.

Ottawa	MONOLITHIC CONCRETE CURB AND SIDEWALK	DATE:	MAY 2001
		REV. DATE:	MAY 2021
		DWG. No.:	SC2

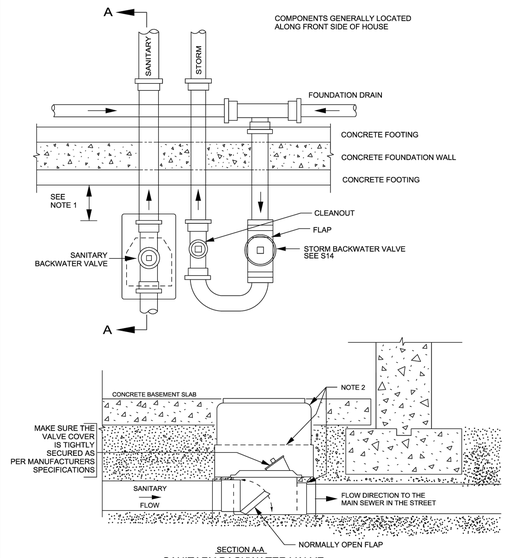


CONCRETE BARRIER CURB

NOTES:
1. THE FULL CURB DEPTH SHALL BE CARRIED THROUGH THE DEPRESSED ACCESS CROSSING.
2. A CONCRETE SUPPORT IS REQUIRED WHEN BUILT ADJACENT TO THE SIDEWALK.
3. IF AN EXTRUSION CURBING MACHINE IS USED, THE EXPANSION BITUMINOUS MATERIAL AND THE #15 DOWELS ARE TO BE PLACED AT THE END OF THE EXTRUSION.
4. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
5. DUMMY JOINTS SHALL BE 25mm DEEP, FRONT, BACK AND TOP OF SECTION AT 4m SPACING OR MATCH JOINTING WHERE SIDEWALK IS ADJACENT.
6. FOR DEPRESSED CURB AT ENTRANCES USE 250.
7. DEPRESSED CURB HEIGHT - FOR PEDESTRIAN CURB RAMPS 0 TO 6 mm AND FOR PRIVATE ENTRANCES 0 TO 13mm.

N.T.S.

Ottawa	CONCRETE BARRIER CURB FOR GRANULAR BASE PAVEMENT (MODIFIED OPSD-600.110)	DATE:	JANUARY 2003
		REV. DATE:	MARCH 2021
		DWG. No.:	SC1.1

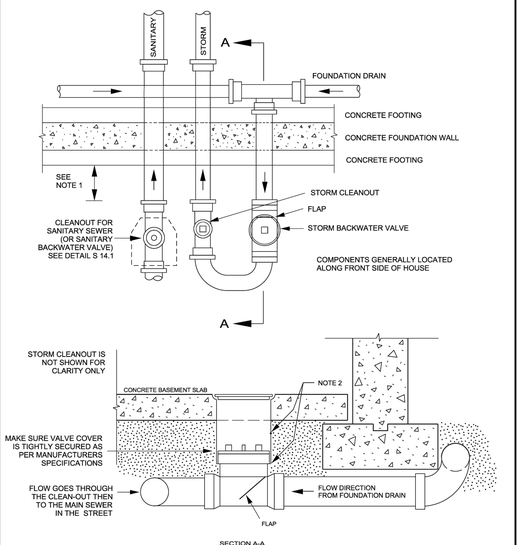


SECTION A-A
SANITARY BACKWATER VALVE

NOTES:
1. BACKWATER VALVE, CLEAN-OUTS AND ANY OTHER FITTINGS MUST BE INSTALLED A MINIMUM OF 300mm INSIDE OF THE BASEMENT FOOTING. THIS IS TO ENSURE THERE IS SUFFICIENT ROOM TO REPLACE THESE COMPONENTS IN THE FUTURE WITHOUT HAVING TO DAMAGE THE FOOTING/WALL DURING THE PROCESS
2. JOINTS BETWEEN THE ACCESS BOX SECTIONS AND THE ACCESS BOX AND THE BACKWATER VALVE AND THE FLOOR SLAB SHALL BE SEALED.

N.T.S.

Ottawa	SANITARY BACKWATER VALVE INSTALLATION TYPE 1	DATE:	MARCH 2010
		REV. DATE:	MARCH 2011
		DWG. No.:	S14.1



STORM BACKWATER VALVE

NOTES:
1. BACKWATER VALVE, CLEAN-OUTS AND ANY OTHER FITTINGS MUST BE INSTALLED A MINIMUM OF 300mm INSIDE OF THE BASEMENT FOOTING. THIS IS TO ENSURE THERE IS SUFFICIENT ROOM TO REPLACE THESE COMPONENTS IN THE FUTURE WITHOUT HAVING TO DAMAGE THE FOOTING/WALL DURING THE PROCESS
2. JOINTS BETWEEN THE SLEEVE AND THE BACKWATER VALVE AND THE FLOOR SHALL BE WATERTIGHT.

N.T.S.

Ottawa	FOUNDATION DRAIN BACKWATER VALVE INSTALLATION	DATE:	DEC. 2002
		REV. DATE:	MARCH 2011
		DWG. No.:	S14

ES-WD-DeadLevel-D

Engineering Specification

Job Name _____ Contractor _____

Job Location _____ Approval _____

Engineer _____ Contractor's P.O. No. _____

Approval _____ Representative _____

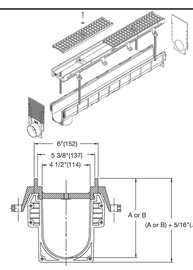
Tag _____

Dead Level® D

Pre-Sloped Polypropylene Trench Drain System with Ductile Iron Frame

Specification

Watts Dead Level® D Pre-Sloped Trench Drain System with 6"(152) wide x 48"(1219) long (standard) ductile iron frame, UV stabilized talc-filled polypropylene channels with integral 4"(102) no hub bottom or end outlet(s). System shall be frame-anchored, with (specify) grating to suit DIN Class (specify) load rating. System to include frame connectors, grate lockdowns, and construction covers. Installation to be performed in accordance with manufacturer's installation instructions.



Grate Options		
Suffix	Description	
-SK	Stainless Steel Brickslot	Class E ☐
-BR	Decorative Bronze	Class B ☐
-DI	Ductile Iron	Class F ☐
-DI-ADA	Ductile Iron ADA	Class F ☐
-GDI	Galvanized Ductile Iron	Class F ☐
-PP	Polypropylene	Class C ☐
-GP	Galvanized Perforated	Class A ☐
-GS	Galvanized Slotted	Class A ☐
-RGP	Reinforced Galvanized Perforated	Class E ☐
-RGS	Reinforced Galvanized Slotted	Class E ☐
-SP	Stainless Steel Perforated	Class A ☐
-SS	Stainless Steel Slotted	Class A ☐
-RSP	Reinforced Stainless Steel Perforated	Class E ☐
-RSS	Reinforced Stainless Steel Slotted	Class E ☐
-SCI	Solid Cast Iron	Class F ☐

Options		
Suffix	Description	
-BS	6"x24"x24" Catch Basin	☐
-B6T	6"x24"x24" Catch Basin w/Trash Basket	☐
-B24	24"x24"x24" Catch Basin (DI Grate Only)	☐
-B24T	24"x24"x24" Catch Basin w/Trash Basket (DI Grate Only)	☐
-FB	Bronze Frame Guard	☐
-FG	Galvanized Steel Frame Guard	☐
-FS	Stainless Steel Frame Guard	☐
-OS	Outlet Strainer	☐
-VP	Vandal Proof Grate Lockdowns	☐

Please refer to watts.com for BAA information on specific models.

Patent# US 7,967,523 B2

Watts product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Watts Technical Service. Watts reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Watts products previously or subsequently sold.

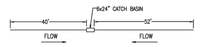
WATTS®

Dead Level® D Dimensional Data

Part #	Configuration	Length	Weight (lbs.)	Dim. A	Dim. B
DI-AA-N48	Neutral	48" (1219)	31	5-5/8" (143)	5-5/8" (143)
DI-1A	Sloped	48" (1219)	31	5-5/8" (143)	5-15/16" (151)
DI-2A	Sloped	48" (1219)	38	5-15/16" (151)	6-1/4" (159)
DI-3A	Sloped	48" (1219)	40	6-1/4" (159)	6-9/16" (167)
DI-4A	Sloped	48" (1219)	43	6-9/16" (167)	6-7/8" (175)
DI-5A	Sloped	48" (1219)	45	6-7/8" (175)	7-3/16" (183)
DI-AB-N12	Neutral	12" (305)	9	7-3/16" (183)	7-3/16" (183)
DI-AB-N24	Neutral	24" (610)	18	7-3/16" (183)	7-3/16" (183)
DI-AB-N36	Neutral	36" (914)	26	7-3/16" (183)	7-3/16" (183)
DI-AB-N48	Neutral	48" (1219)	32	7-3/16" (183)	7-3/16" (183)
DI-1B	Sloped	48" (1219)	32	7-3/16" (183)	7-1/2" (191)
DI-2B	Sloped	48" (1219)	39	7-1/2" (191)	7-13/16" (198)
DI-3B	Sloped	48" (1219)	41	7-13/16" (198)	8-1/8" (206)
DI-4B	Sloped	48" (1219)	44	8-1/8" (206)	8-7/16" (214)
DI-5B	Sloped	48" (1219)	46	8-7/16" (214)	8-3/4" (222)
DI-BC-N12	Neutral	12" (305)	9	8-3/4" (222)	8-3/4" (222)
DI-BC-N24	Neutral	24" (610)	18	8-3/4" (222)	8-3/4" (222)
DI-BC-N36	Neutral	36" (914)	26	8-3/4" (222)	8-3/4" (222)
DI-BC-N48	Neutral	48" (1219)	32	8-3/4" (222)	8-3/4" (222)
DI-1C	Sloped	48" (1219)	33	8-3/4" (222)	9-1/16" (230)
DI-2C	Sloped	48" (1219)	40	9-1/16" (230)	9-3/8" (238)
DI-3C	Sloped	48" (1219)	42	9-3/8" (238)	9-11/16" (246)
DI-4C	Sloped	48" (1219)	45	9-11/16" (246)	10" (254)
DI-5C	Sloped	48" (1219)	47	10" (254)	10-5/16" (262)
DI-CD-N12	Neutral	12" (305)	9	10-5/16" (262)	10-5/16" (262)
DI-CD-N24	Neutral	24" (610)	18	10-5/16" (262)	10-5/16" (262)
DI-CD-N36	Neutral	36" (914)	26	10-5/16" (262)	10-5/16" (262)
DI-CD-N48	Neutral	48" (1219)	32	10-5/16" (262)	10-5/16" (262)
DI-1D	Sloped	48" (1219)	34	10-5/16" (262)	10-5/8" (270)
DI-2D	Sloped	48" (1219)	41	10-5/8" (270)	10-15/16" (278)
DI-3D	Sloped	48" (1219)	43	10-15/16" (278)	11-1/4" (286)
DI-4D	Sloped	48" (1219)	46	11-1/4" (286)	11-9/16" (294)
DI-5D	Sloped	48" (1219)	48	11-9/16" (294)	11-7/8" (302)
DI-DE-N12	Neutral	12" (305)	10	11-7/8" (302)	11-7/8" (302)
DI-DE-N24	Neutral	24" (610)	19	11-7/8" (302)	11-7/8" (302)
DI-DE-N36	Neutral	36" (914)	27	11-7/8" (302)	11-7/8" (302)
DI-DE-N48	Neutral	48" (1219)	33	11-7/8" (302)	11-7/8" (302)
DI-1E	Sloped	48" (1219)	35	11-7/8" (302)	12-3/16" (310)
DI-2E	Sloped	48" (1219)	42	12-3/16" (310)	12-1/2" (318)
DI-3E	Sloped	48" (1219)	44	12-1/2" (318)	12-13/16" (325)
DI-4E	Sloped	48" (1219)	47	12-13/16" (325)	13-1/8" (333)
DI-5E	Sloped	48" (1219)	49	13-1/8" (333)	13-7/16" (341)

How to Configure & Order Dead Level® Trench System

1. Sketch General Layout
For each separate trench configuration show length(s), position of outlet(s), direction of flow(s), and position of catch basins (if required).



2. Specify Frame	**Ordering Code**
Ductile Iron	D or DX
Polypropylene	P

3. Specify Length in Feet	
(Do not include Catch Basins)	Numeric

4. Specify Outlet	
Straight Run End Outlet	EO
Straight Run Center Outlet	CO
Other Configuration	XO

5. Specify Grating	
Stainless Steel Brickslot	BK
Decorative Bronze*	BR
Ductile Iron	DI
ADA Ductile Iron	DI-ADA
Galvanized Ductile Iron	GDI
Galvanized Steel Slotted	GS
Galvanized Steel Perforated	GP
Stainless Steel Slotted	SS
Stainless Steel Perforated	SP
Reinforced Galvanized Steel Slotted	RGS
Reinforced Galvanized Steel Perforated	RGP
Reinforced Stainless Steel Slotted	RSS
Reinforced Stainless Steel Perforated	RSP
Polypropylene	PP

6. Specify Catch Basin	
(If Required)	
6x6x24" Catch Basin	B6
24x24x24" Catch Basin	B24

7. Specify Frame Guards	
(If Required)	
Galvanized Steel	FG
Stainless Steel	FS

8a. Configure Straight Run (EO or CO)
EX. P22-EO-RSS-B6-FS
P = Polypropylene
22 = Trench Length in Feet
EO = End Outlet
RSS = Reinforced Stainless Steel Slotted Grates
B6 = 6x24x24" Catch Basin
FS = Stainless Steel Frame Guard

8b. Configure Special Run (XO)
EX. D84-XO-DI-B24
D = Ductile Iron Frame
84 = Trench Length in Feet
XO = Other Configuration (Provide Sketch or Describe)
DI = Ductile Iron
B24 = 24x24x24" Catch Basin

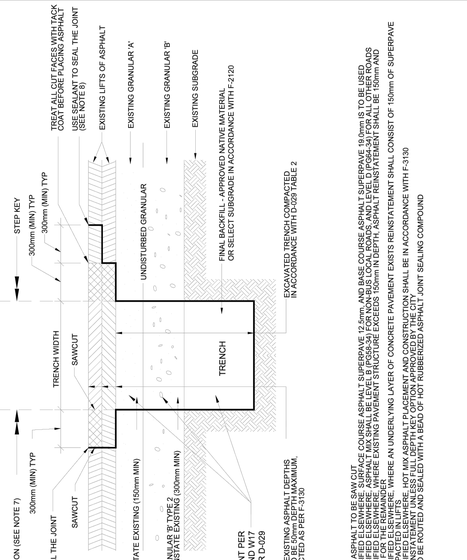
NOTICE

The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

WATTS®

USA: T: (800) 338-2581 • F: (828) 248-3929 • Watts.com
Canada: T: (888) 208-8927 • F: (888) 479-2897 • Watts.ca
Latin America: T: (52) 55-4122-0138 • Watts.com

ES-WD-DeadLevel-D 2108



NOTES:
1. ALL EXISTING ASPHALT TO BE SAW CUT
2. UNLESS SPECIFIED ELSEWHERE, SURFACE COURSE ASPHALT SUPERPAVE 12.5mm, AND BASE COURSE ASPHALT SUPERPAVE 19.0mm IS TO BE USED.
3. UNLESS SPECIFIED ELSEWHERE, WHERE EXISTING PAVEMENT STRUCTURE EXCEEDS 150mm IN DEPTH, ASPHALT REINSTATEMENT SHALL BE 150mm AND UNLESS SPECIFIED ELSEWHERE, WHERE EXISTING PAVEMENT STRUCTURE IS LESS THAN 150mM IN DEPTH, ASPHALT REINSTATEMENT SHALL CONSIST OF 150mm OF SUPERPAVE UNLESS SPECIFIED ELSEWHERE.
4. UNLESS SPECIFIED ELSEWHERE, WHERE AN UNDERLYING LAYER OF CONCRETE PAVEMENT EXISTS REINSTATEMENT SHALL CONSIST OF 150mm OF SUPERPAVE UNLESS SPECIFIED ELSEWHERE.
5. UNLESS SPECIFIED ELSEWHERE, HOT MIX ASPHALT PLACEMENT AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH F-3130
6. ALL JOINTS TO BE SEALED WITH A BEAD OF HOT RUBBERIZED ASPHALT JOINT SEALING COMPOUND
7. ALL EDGES TO BE ROUTED AND SEALED WITH A BEAD OF HOT RUBBERIZED ASPHALT JOINT SEALING COMPOUND

Ottawa	TITLE: STANDARD TRENCH REINSTATEMENT IN PAVED SURFACE	DATE:	MAY 2001
		REV:	MAR 2023
		DWG No:	R10

DISCLAIMER AND COPYRIGHT

CONTRACTOR MUST VERIFY ALL DIMENSIONS AND BE RESPONSIBLE FOR SAME. ANY DISCREPANCIES MUST BE REPORTED TO THE ENGINEER BEFORE COMMENCING WORK. DRAWINGS ARE NOT TO BE SCALED.

SURVEY

TOPOGRAPHIC SURVEY WAS COMPLETED BY ANNIS, O'SULLIVAN, VOLLEBEKK LTD. ONTARIO LAND SURVEYORS, DATED JULY 26, 2022. ELEVATIONS SHOWN AREA GEODETIC AND ARE REFERRED TO THE CGVD28 GEODETIC DATUM.

TBM: TOP OF CB GRATE LOCATED ON SOUTH SIDE OF SITE ENTRANCE, ELEVATION 87.69.

No.	REVISION DESCRIPTION	DATE
1.	ISSUED FOR SPA	JULY. 2023
2.	RE-ISSUED FOR SPA	MAY. 2024

ENGINEER STAMP

5497 MANOTICK MAIN ST.
CITY OF OTTAWA

TATHAM ENGINEERING

DETAILS

DESIGN: HY	FILE: 522679	DWG:	C502
DRAWN: HY	DATE: JULY 2023		
CHECK: GC	SCALE:		