

Drop Structures for Maintenance Holes

NOTE: 1. THE INITIALS OR MARK OF THE MANUFACTURER AND YEAR ARE TO BE DISTINCTLY CAST IN RAISED LETTERS ON BOTH FRAME AND COVER.

NOTE: 2. THE COVER IS TO HAVE "STORM" OR "DANGER" DISTINCTLY CAST IN RAISED LETTERS AS REQUIRED.

NOTE: 3. THE COVER IS TO HAVE "DANGER" DISTINCTLY CAST IN RAISED LETTERS.

NOTE: 4. WATER TIGHT FRAME AND COVER TO BE SUPPLIED COMPLETE WITH STAINLESS STEEL BOLTS AND RUBBER GASKETS.

DROP PIPE DIA. (mm)	TYPE "A" DIA. (mm)	TYPE "B" DIA. (mm)	MIN. VELOCITY (m/s)
100	150	150	1.42
125	175	175	1.58
150	200	200	1.75
175	225	225	1.92
200	250	250	2.10
225	275	275	2.28
250	300	300	2.46
275	325	325	2.64
300	350	350	2.83
325	375	375	3.02
350	400	400	3.21
375	425	425	3.40
400	450	450	3.59
425	475	475	3.78
450	500	500	3.97
475	525	525	4.16
500	550	550	4.35
525	575	575	4.54
550	600	600	4.73
575	625	625	4.92
600	650	650	5.11
625	675	675	5.30
650	700	700	5.49
675	725	725	5.68
700	750	750	5.87

City of Pickering Engineering Services Department
 P. NEUMAN
 S. A. VOKES
 JANUARY 1993
 P-110

Maintenance Hole Frame and Closed Cover

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NOTE: 4. WATER TIGHT FRAME AND COVER TO BE SUPPLIED COMPLETE WITH STAINLESS STEEL BOLTS AND RUBBER GASKETS.

City of Pickering Engineering Services Department
 P. NEUMAN
 S. A. VOKES
 APRIL 2011
 P-120

Watertight Maintenance Hole Frame with Bolt Down Cover

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City of Pickering Engineering Services Department
 P. NEUMAN
 S. A. VOKES
 APRIL 2011
 P-121

Beehive Catch Basin Frame & Cover

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City of Pickering Engineering Services Department
 P. NEUMAN
 S. A. VOKES
 JANUARY 1993
 P-215

Driveway Section

NOTE: 1. MATERIAL DEPTHS FOR RESIDENTIAL DRIVEWAYS MAY NEED TO BE INCREASED WHERE SOIL CONDITIONS WARRANT OR WHERE MATCHING EXISTING CONDITIONS.

NOTE: 2. COMMERCIAL/INDUSTRIAL/MULTI-UNIT RESIDENTIAL - MATERIAL DEPTHS SHALL CONFORM TO SDLS REPORT RECOMMENDATIONS TO MEET DESIGN REQUIREMENTS FOR EXPECTED TRAFFIC VOLUME & VEHICULAR TYPE USE IF FOUND TO BE ABOVE THE MINIMUM STANDARD.

DRIVEWAY MATERIAL	EXCAVATION (mm)	GRANULAR 'B' (mm)	GRANULAR 'A' (mm)	BASE MATERIAL (mm)	SURFACE MATERIAL (mm)
ASPHALT	200	150	50 (H/L)		
ASPHALT	700	450	150 (H/L)	50 (H/L)	50 (H/L)

City of Pickering Engineering Services Department
 P. NEUMAN
 S. A. VOKES
 JULY 2019
 P-607

Type "C" Bedding for Concrete Pipe

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SEIVE SIZE	% PASSING
75	10
100	20
150	40
200	60
250	75
300	85
375	95
475	98
600	99
750	100

City of Pickering Engineering Services Department
 P. NEUMAN
 S. A. VOKES
 JANUARY 1993
 P-400

Type "P" Bedding for P.V.C. & H.D.P.E. Pipe

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City of Pickering Engineering Services Department
 P. NEUMAN
 S. A. VOKES
 JANUARY 1993
 P-401

Medium to High Density Residential, Commercial, and Industrial Driveway Access

WIDTH (M)	MEDIUM/HIGH DEN. RESIDENTIAL	COMMERCIAL	INDUSTRIAL
ONE WAY	6.0 (MIN.)	6.0-7.5	6.0-9.0
TWO WAY	6.0-12.0	7.5-12.0	9.0-12.0
RADIUS (R)	7.5-9.0	7.5-12.0	9.0-12.0

City of Pickering Engineering Services Department
 P. NEUMAN
 S. A. VOKES
 JULY 2019
 P-605

Typical Siltsack Construction - Type B

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City of Pickering Engineering Services Department
 P. NEUMAN
 S. A. VOKES
 JULY 2019
 P-605

Ontario Provincial Standard Drawing: Maintenance Hole Drop Structure Wye

NOTE: 1. CONCRETE SHALL BE PLACED TO UNDISTURBED GROUND AND THE OUTSIDE FACE OF THE MAINTENANCE HOLE, BUT THERE SHALL BE A MINIMUM OF 150mm OF 15MPa CONCRETE AROUND THE DROP PIPE.

NOTE: 2. CONCRETE SHALL BE SECURED TO THE MAINTENANCE HOLE WITH 450mm LONG, 13mm DIAMETER THREADED RODS AND DRILLED ANCHORS ONCH DOWN EITHER SIDE OF THE DROP PIPE AT 300mm CENTRES.

NOTE: 3. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SHOWN.

City of Pickering Engineering Services Department
 P. NEUMAN
 S. A. VOKES
 NOV 2016
 P-103.020

Precast Concrete Maintenance Hole

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City of Pickering Engineering Services Department
 P. NEUMAN
 S. A. VOKES
 NOV 2014
 P-701.010

Precast Concrete Catch Basin

ALTERNATE STANDARD HEIGHTS	DIMENSION
A	1880
B	1830
C	1520
D	1380

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City of Pickering Engineering Services Department
 P. NEUMAN
 S. A. VOKES
 NOV 2019
 P-705.010

Mud Mat for Temporary Construction Access

NOTE: 1. TEMPORARY "TRUCK ENTRANCE" SIGNS SHALL BE INSTALLED ON THE SHOULDER, 150m IN ADVANCE OF THE ACCESS, NOTE SEE DETAILS ON THE USE OF THESE SIGNS IN THE ONTARIO TRAFFIC MANUAL, BOOK 7. THE APPLICANT WILL BE RESPONSIBLE FOR THE COST OF OBTAINING, ERECTING AND MAINTAINING THESE SIGNS.

NOTE: 2. TEMPORARY CONSTRUCTION ACCESS SHALL BE REMOVED FROM THE ROAD ALLOWANCE AND ALL DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION.

City of Pickering Engineering Services Department
 P. NEUMAN
 S. A. VOKES
 OCTOBER 2007
 P-824.2

Silt Fence

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City of Pickering Engineering Services Department
 P. NEUMAN
 S. A. VOKES
 NOVEMBER 2019
 P-823.1

Standard Sidewalk

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City of Pickering Engineering Services Department
 P. NEUMAN
 S. A. VOKES
 MAY 2012
 P-610

REVISION BLOCK

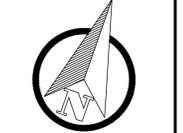
#	DATE	DESCRIPTION
1	04/14/23	ISSUED FOR SPA
2	12/04/25	ISSUED FOR SPA



KWA SITE DEVELOPMENT
 2455 Ashland Drive
 Burlington, ON L7L 7A9



NORTH ARROW



SURVEY AND BENCHMARK NOTE

EXISTING TOPOGRAPHIC INFORMATIONS SHOWN ON THIS PLAN ARE BASED ON J.D. BARNES LTD. DRAWING (REF. NO. 25-25-300-00), DATED AUGUST 20, 2005.

ELEVATIONS ARE GEODETIC AND ARE REFERRED TO CITY OF PICKERING VERTICAL.

METRIC SCALE
 N.T.S.

SITE DETAILS PLAN 1
 FIELDGATE COMMERCIAL
 TAUNTON RD/BURKHOLDER DR.
 PICKERING, ONTARIO

PROJECT NO. 2810 | DRAWN BY: BS | CHECKED BY: BJ