

SC-310 TECHNICAL SPECIFICATION

NTS

90.7" (2304 mm) ACTUAL LENGTH
85.4" (2169 mm) INSTALLED LENGTH
BUILD ROW IN THIS DIRECTION
START END
OVERLAP NEXT CHAMBER HERE (OVER SMALL CORRUGATION)

9.9" (251 mm)
15.6" (396 mm)
16.0" (406 mm)
34.0" (864 mm)

NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	34.0" X 16.0" X 85.4"	(864 mm X 406 mm X 2169 mm)
CHAMBER STORAGE	14.7 CUBIC FEET	(0.42 m ³)
MINIMUM INSTALLED STORAGE*	31.0 CUBIC FEET	(0.88 m ³)
WEIGHT	35.0 lbs	(15.9 kg)

*ASSUMES 6" (152 mm) ABOVE, BELOW, AND BETWEEN CHAMBERS

PRE-FAB STUB AT BOTTOM OF END CAP WITH FLAMP END WITH "BR"
PRE-FAB STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
PRE-FAB STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
PRE-CORED END CAPS END WITH "PC"

PART #	STUB	A	B	C
SC310EP067 / SC310EP067PC	6" (150 mm)	9.6" (244 mm)	5.8" (147 mm)	0.5" (13 mm)
SC310EP087 / SC310EP087PC	8" (200 mm)	11.9" (302 mm)	3.5" (89 mm)	---
SC310EP088 / SC310EP088PC	8" (200 mm)	---	---	0.6" (15 mm)
SC310EP107 / SC310EP107PC	10" (250 mm)	12.7" (323 mm)	1.4" (36 mm)	---
SC310EP108 / SC310EP108PC	10" (250 mm)	---	---	0.7" (18 mm)
SC310ECE2*	12" (300 mm)	13.5" (343 mm)	---	0.9" (23 mm)

ALL STUBS, EXCEPT FOR THE SC310ECE2 ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-852-2684.

* FOR THE SC310ECE2 THE 12" (300 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 0.25" (6 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

NOTE: ALL DIMENSIONS ARE NOMINAL.

StormTech Chamber System
4640 TRUMAN BLVD
HILLIARD, OH 43026
1-888-852-2684
WWW.STORMTECH.COM

1412 STITTSVILLE MAIN STREET
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DRAWN: HY
CHECKED: N/A
DATE: DRW, CHK

SHEET 5 OF 6

NYLOPLAST DRAIN BASIN

NTS

INTEGRATED DUCTILE IRON FRAME & GRATE/SOLID TO MATCH BASIN O.D.
18" (457 mm) MIN WIDTH
AASHTO H-20 CONCRETE SLAB 6" (152 mm) MIN THICKNESS
TRAFFIC LOADS: CONCRETE DIMENSIONS ARE FOR GUIDELINE PURPOSES ONLY. ACTUAL CONCRETE SLAB MUST BE DESIGNED GIVING CONSIDERATION FOR LOCAL SOIL CONDITIONS, TRAFFIC LOADING & OTHER APPLICABLE DESIGN FACTORS.
ADAPTER ANGLES VARIABLE 0°-360° ACCORDING TO PLANS
VARIABLE SUMP DEPTH ACCORDING TO PLANS
8" (152 mm) MIN ON 8-24" (200-600 mm)
10" (254 mm) MIN ON 30" (750 mm)
4" (102 mm) MIN ON 8-24" (200-600 mm)
6" (152 mm) MIN ON 30" (750 mm)
WATERTIGHT JOINT (CORRUGATED HDPE SHOWN)
BACKFILL MATERIAL BELOW AND TO SIDES OF STRUCTURE SHALL BE ASTM D3321 CLASS 1 OR 11 CRUSHED STONE OR GRAVEL AND BE PLACED UNIFORMLY IN 12" (305 mm) LIFTS AND COMPACTED TO MIN OF 90%
INVERT ACCORDING TO PLANS/TAKE OFF
12" (305 mm) MIN (FOR AASHTO H-20)
VARIOUS TYPES OF INLET AND OUTLET ADAPTERS AVAILABLE:
4-30" (100-750 mm) FOR CORRUGATED HDPE
WATERTIGHT JOINT (CORRUGATED HDPE SHOWN)

NOTES

- 8-30" (200-750 mm) GRATES/SOLID COVERS SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
- 12-30" (300-750 mm) FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
- DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS
- DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE ADS & HANCOCK DUAL WALL & SDR 35 PVC
- FOR COMPLETE DESIGN AND PRODUCT INFORMATION: WWW.NYLOPLAST-US.COM
- TO ORDER CALL: 800-821-6710

A	PART #	GRATE/SOLID COVER OPTIONS
8" (200 mm)	2808AG	PEDESTRIAN LIGHT DUTY STANDARD LIGHT DUTY SOLID LIGHT DUTY
10" (250 mm)	2810AG	PEDESTRIAN LIGHT DUTY STANDARD LIGHT DUTY SOLID LIGHT DUTY
12" (300 mm)	2812AG	PEDESTRIAN AASHTO H-10 STANDARD AASHTO H-20 SOLID AASHTO H-20
15" (375 mm)	2815AG	PEDESTRIAN AASHTO H-10 STANDARD AASHTO H-20 SOLID AASHTO H-20
18" (450 mm)	2818AG	PEDESTRIAN AASHTO H-10 STANDARD AASHTO H-20 SOLID AASHTO H-20
24" (600 mm)	2824AG	PEDESTRIAN AASHTO H-10 STANDARD AASHTO H-20 SOLID AASHTO H-20
30" (750 mm)	2830AG	PEDESTRIAN AASHTO H-20 STANDARD AASHTO H-20 SOLID AASHTO H-20

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SHEET 6 OF 6

STANDARD DETAIL NOT FOR CONSTRUCTION

SECTION VIEW
1549 [61"]
282 [11"]
155 [6"]
280 [11"]
407 [16"]
1524 [60"]
1029 [40"]
1524 [60"]
1219 [48"]

PLAN VIEW (STANDARD)
PLAN VIEW (INLET TOP)

GENERAL NOTES:
1. MAXIMUM SURFACE LOADING RATE (SLR) INTO LOWER CHAMBER THROUGH DROP PIPE IS 1135 L/min/m² (27.9 gpm/m²) FOR STORMCEPTOR EF4 AND E35. L/min/m² (13.1 gpm/m²) FOR STORMCEPTOR EF04 (OIL CAPTURE CONFIGURATION). WEIR HEIGHT IS 150 mm (6 INCH) FOR E254. CAPACITY TO LIFT AND SET THE STRUCTURE (LIFTING CLUTCHES PROVIDED) OTHERWISE SPECIFIED.
2. STORMCEPTOR STRUCTURE INLET AND OUTLET PIPE SIZE AND ORIENTATION SHOWN FOR INFORMATIONAL PURPOSES ONLY.
3. UNLESS OTHERWISE NOTED, BYPASS INFRASTRUCTURE, SUCH AS ALL UPSTREAM DIVERSION STRUCTURES, CONNECTING STRUCTURES, OR PIPE CONDUITS CONNECTING TO COMPLETE THE STORMCEPTOR SYSTEM SHALL BE PROVIDED AND ADDRESSED SEPARATELY.
4. DRAWING FOR INFORMATION PURPOSES ONLY. REFER TO ENGINEERS SITE/UTILITY PLAN FOR STRUCTURE ORIENTATION.
5. NO PRODUCT SUBSTITUTIONS SHALL BE ACCEPTED UNLESS SUBMITTED 10 DAYS PRIOR TO PROJECT BID DATE, OR AS DIRECTED BY THE ENGINEER OF RECORD.

INSTALLATION NOTES:
A. ANY SUB-BASE, BACKFILL, DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STRUCTURE (LIFTING CLUTCHES PROVIDED).
C. CONTRACTOR WILL INSTALL AND LEVEL THE STRUCTURE, SEALING THE JOINTS, LINE ENTRY AND EXIT POINTS (NON-SHRINK GROUT WITH APPROVED WATERSTOP OR FLEXIBLE BOOT).
D. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT THE DEVICE FROM CONSTRUCTION-RELATED EROSION RUNOFF.
E. DEVICE ACTIVATION, BY CONTRACTOR, SHALL OCCUR ONLY AFTER SITE HAS BEEN STABILIZED AND THE STORMCEPTOR UNIT IS CLEAN AND FREE OF DEBRIS.

SITE SPECIFIC DATA REQUIREMENTS

STORMCEPTOR MODEL	EF04
STRUCTURE ID	*
HYDROCARBON STORAGE REQ'D (L)	*
WATER QUALITY FLOW RATE (L/s)	*
PEAK FLOW RATE (L/s)	*
RETURN PERIOD OF PEAK FLOW (yrs)	*
DRAINAGE AREA (HA)	*
DRAINAGE AREA IMPERVIOSUENESS (%)	*

PIPE DATA: I.E. MATL. DIA. SLOPE % HGL

PIPE DATA	I.E.	MATL.	DIA.	SLOPE %	HGL
INLET #1	*	*	*	*	*
INLET #2	*	*	*	*	*
OUTLET	*	*	*	*	*

* PER ENGINEER OF RECORD

Stormceptor EF
SCALE: NTS

1412 STITTSVILLE MAIN STREET
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HYDRANT INSTALLATION

NOTES:
1. SEE DETAIL FOR HYDRANTS IN DITCH AREAS.
2. FOR WATERMAIN ABOVE AND UNDER LOCATE VALVE WITHIN 1.0m OF CENTERLINE. RETAINING/RESTRAINING DEVICES TO BE UTILIZED FOR WATERMAIN ABOVE AND UNDER. REST VALVE WITH FLANGED END SPECIFIC TO PLUMBING SIZE.
3. RETAINING/RESTRAINING DEVICES TO BE UTILIZED.
4. HYDRANT REMAINABLE FLANGE ELEVATION TO BE ESTABLISHED PRIOR TO INSTALLATION. REFER TO MH-184 AND F-4144.
5. SEE SPP-2020 FOR BACKFILL REQUIREMENTS IN THIS AREA.
6. SEE F-444 FOR HYDRANT LOCATION REQUIREMENTS.
7. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS SHOWN OTHERWISE.

Ottawa
DATE: MAY 2021
REV: MARCH 2018
DWG. NO.: W19

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.
TATHAM ENGINEERING LIMITED CLAIMS COPYRIGHT TO THIS DRAWING WHICH MAY NOT BE USED FOR ANY PURPOSE OTHER THAN THAT PROVIDED IN THE CONTRACT BETWEEN THE OWNER/CLIENT AND THE ENGINEER WITHOUT THE EXPRESS CONSENT OF TATHAM ENGINEERING LIMITED.

TOPOGRAPHIC SURVEY WAS COMPLETED BY FARLEY, SMITH & DENNIS SURVEYING LTD. ON JANUARY 11, 2022.
ELEVATIONS ARE DERIVED FROM ONTARIO CONTROL MONUMENT 0011968U118, HAVING A PUBLISHED ELEVATION OF 126.180m
TBM: CC ON THE SOUTHWEST CORNER OF THE HYDRO TRANSFORMER CONCRETE PAD. ELEV. 117.58

APPLICANT: ELITE PROPERTY DEVELOPMENTS INC.

No.	REVISION DESCRIPTION	DATE	ENGINEER STAMP
1.	ISSUED FOR SPA	JULY, 2024	
2.	RE-ISSUED FOR SPA	SEPT. 2024	
3.	RE-ISSUED FOR SPA	APR. 2025	
4.	RE-ISSUED FOR SPA	JUL. 2025	

1412 STITTSVILLE MAIN STREET
TOWNSHIP OF STITTSVILLE

TATHAM ENGINEERING

DESIGN: HY FILE: 524659 DWG: DET-3
DRAWN: HY DATE: SEPT 2024
CHECK: GC SCALE: