STORM WATER MANAGEMENT REPORT

CuraLeaf Proposed Building Expansion 34 Hopmeadow Street Simsbury, CT

Prepared For:

CURALEAF

Prepared By:

F. A. Hesketh & Associates, Inc. 3 Creamery Brook East Granby, CT 06026



FAHA #21126

August 27, 2021



1. Introduction

This storm water management report has been prepared to demonstrate that the storm water management practices for the proposed development meet the design goals and requirements of the Town of Simsbury Stormwater and Zoning Regulations, attain the goal of the CT DEEP 2004 Stormwater Quality Manual (SWQM), follow sound engineering practices and protect adjacent land owners from adverse storm water impacts.

There are no changes to the existing storm drainage system serving the site. The only increase in impervious coverage is a portion of the building expansion, approximately 35,000 s.f.. The roof drainage system for the building expansion will be directed to a new underground infiltration system which has the capacity to hold up the volume generated up to the 25-year storm.

Project Description

The proposed development site is comprised of approximately 18 +/- acres of a 25.84 +/- acre property identified as Adjusted Parcel 1C on the property survey, located on the east side of Hopmeadow Street - Route 10. The development site is currently a portion of a larger Master Plan PAD which is at this time a combination of three different entities: the Curaleaf Facility, the Aspen Green Apartment development and the recently approved Self-Storage project.

The proposal includes the demolition of an existing elevated outdoor loading platform and the construction of a one-story building 41,168 s.f expansion to the main Curaleaf facility. There will be no changes to the existing on-site storm drainage system.

3. Hydrologic Analysis

The design of the stormwater management system for the proposed development is aimed at mitigating total peak rate of runoff and promoting stormwater water quality through use of infiltrator units. The design goal is to meet the requirements of the Simsbury Stormwater regulations including the incorporation of Low Impact Design (LID) strategies and Best Management Practices (BMP). Taking advantage of the underlying sandy soils and implementing onsite retention and infiltration is a design scheme that meets both the LID and BMP goals.

In accordance with CT DOT protocol, rainfall intensity data for the project area is taken from NOAA Atlas 14 data off the NOAA website. A copy of the NOAA rainfall data and the Rainfall Intensity Curve is presented in Attachment 1.

Surficial Soil mapping indicates that existing soil types are Merrimac (34A) fine sandy loam. This soil types fall under Hydrologic Group A meaning a well drained soil with high potential to support infiltration. For the recently approved abutting

self-storage facility, test pits were conducted in May 2021 to determine the feasibility of utilizing infiltration systems given the underlying soils. Based on the test results, it was determined that the infiltrator system would drain in less than 6 hours, meaning 4 complete cycles per 24-hour storm event. The noted report is included in Attachment 2.

Rational Method Runoff Coefficients used for the various land-use types are based on the following values:

• C=0.90 for impervious areas (i.e. rooftop)

The proposed infiltrator system will be comprised of 72 Stormtech SC-740 chamber units as depicted on Sheets GR-1 and SD-3. The total storage capacity of the system would be 5,393 c.f. See Attachment 3.

Sizing calculations for 25-year design storm:

I = 6.69 in. (24-hour event)

Roof Area = 41,168 s.f.

C = 0.9

Q = (6.69/12) X 41,168 X 0.9 = 20,656 c.f.

Required System Capacity = 20,656/4 (cycles per 24 hour.) = 5,164 c.f.

Calculations for Water Quality Volume (WQV) following CTDEEP methodology indicates the recommended WQV is 3,245 c.f. which is easily met by the proposed chamber design during the first cycle.

4. Summary

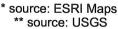
The analysis indicates that the proposed stormwater management system meets the design goals of incorporating Water Quality, LID and BMP practices outlined in the town stormwater regulations and CTDEEP requirements and ensures that there will be no negative impact to abutting properties for the design storm event.

Attachment 1

NOAA Rainfall Data And Rainfall Intensity Curve



NOAA Atlas 14, Volume 10, Version 3 Location name: Weatogue, Connecticut, USA* Latitude: 41.8261°, Longitude: -72.8248° **Elevation: 195.19 ft****



POINT PRECIPITATION FREQUENCY ESTIMATES

Sanja Perica, Sandra Pavlovic, Michael St. Laurent, Carl Trypaluk, Dale Unruh, Orlan Wilhite NOAA, National Weather Service, Silver Spring, Maryland

PF tabular | PF graphical | Maps & aerials

PF tabular

PDS-	5-based point precipitation frequency estimates with 90% confidence						
Duration				Average	recurrence	interval (y	ears)
Daration	1	2	5	10	25	50	100
5-min	0.350 (0.269-0.450)	0.419 (0.322-0.540)	0.532 (0.408-0.689)	0.626 (0.477-0.817)	0.756 (0.559-1.03)	0.853 (0.619-1.19)	0.955 (0.674-1.39)
10-min	0.495 (0.381-0.638)	0.594 (0.456-0.765)	0.755 (0.579-0.977)	0.888 (0.677-1.16)	1.07 (0.791-1.46)	1.21 (0.877-1.69)	1.35 (0.955-1.96)
15-min	0.583 (0.448-0.751)	0.698 (0.536-0.901)	0.887 (0.679-1.15)	1.04 (0.795-1.36)	1.26 (0.931-1.72)	1.42 (1.03-1.99)	1.59 (1.12-2.31)
30-min	0.788 (0.606-1.02)	0.947 (0.727-1.22)	1.21 (0.923-1.56)	1.42 (1.08-1.85)	1.72 (1.27-2.34)	1.94 (1.41-2.71)	2.17 (1.53-3.15)
60-min	0.994 (0.765-1.28)	1.20 (0.918-1.54)	1.52 (1.17-1.97)	1.80 (1.37-2.34)	2.17 (1.61-2.96)	2.46 (1.78-3.43)	2.75 (1.94-3.99)
2-hr	1.28 (0.994-1.64)	1.54 (1.19-1.97)	1.95 (1.51-2.51)	2.30 (1.76-2.98)	2.78 (2.07-3.78)	3.13 (2.29-4.36)	3.51 (2.51-5.11)
3-hr	1.48 (1.15-1.89)	1.78 (1.38-2.27)	2.26 (1.75-2.90)	2.66 (2.05-3.43)	3.22 (2.41-4.37)	3.63 (2.67-5.05)	4.07 (2.92-5.93)
6-hr	1.86 (1.46-2.36)	2.26 (1.77-2.86)	2.90 (2.26-3.69)	3.44 (2.66-4.40)	4.17 (3.15-5.64)	4.71 (3.49-6.55)	5.30 (3.85-7.73)
12-hr	2.29 (1.81-2.88)	2.82 (2.22-3.55)	3.69 (2.89-4.66)	4.41 (3.44-5.61)	5.39 (4.10-7.27)	6.12 (4.57-8.48)	6.92 (5.05-10.1)
24-hr	2.68 (2.13-3.35)	3.36 (2.67-4.21)	4.49 (3.54-5.63)	5.41 (4.25-6.84)	6.69 (5.12-9.00)	7.63 (5.74-10.6)	8.67 (6.40-12.6)
2-day	3.00 (2.40-3.72)	3.84 (3.06-4.77)	5.21 (4.15-6.50)	6.35 (5.02-7.98)	7.92 (6.12-10.6)	9.06 (6.88-12.5)	10.3 (7.73-15.2)
3-day	3.26 (2.62-4.03)	4.19 (3.36-5.18)	5.70 (4.55-7.09)	6.96 (5.53-8.71)	8.69 (6.74-11.6)	9.94 (7.59-13.7)	11.4 (8.53-16.6)
4-day	3.51 (2.82-4.32)	4.50 (3.61-5.55)	6.11 (4.90-7.57)	7.46 (5.93-9.30)	9.30 (7.23-12.4)	10.6 (8.14-14.7)	12.1 (9.14-17.7)
7-day	4.19	5.31	7.13	8.64	10.7	12.2	13.9

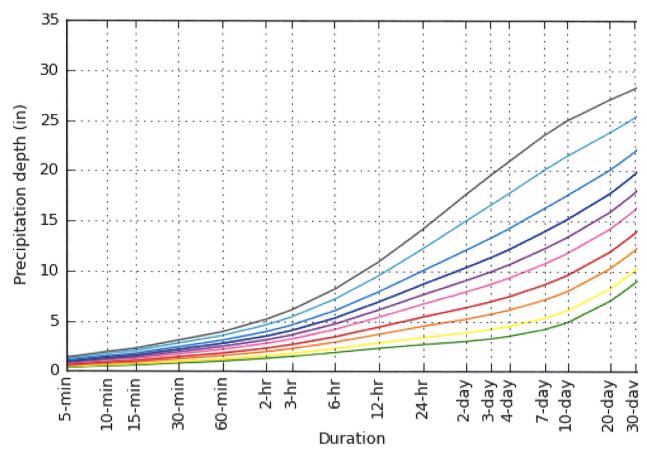
	(3.39-5.14)	(4.29-6.51)	(5.74-8.78)	(6.91-10.7)	(8.36-14.2)	(9.38-16.7)	(10.5-20.2)
10-day	4.88 (3.97-5.96)	6.06 (4.91-7.40)	7.97 (6.45-9.79)	9.57 (7.68-11.8)	11.8 (9.19-15.5)	13.3 (10.3-18.2)	15.1 (11.4-21.8)
20-day	7.05 (5.76-8.54)	8.27 (6.76-10.0)	10.3 (8.36-12.5)	11.9 (9.65-14.6)	14.2 (11.1-18.5)	15.9 (12.2-21.3)	17.7 (13.3-25.0)
30-day	8.87 (7.28-10.7)	10.1 (8.29-12.2)	12.1 (9.92-14.7)	13.8 (11.2-16.9)	16.1 (12.7-20.8)	17.8 (13.7-23.7)	19.7 (14.7-27.4)
45-day	11.1 (9.17-13.4)	12.4 (10.2-14.9)	14.5 (11.9-17.5)	16.2 (13.2-19.7)	18.6 (14.6-23.7)	20.4 (15.7-26.7)	22.3 (16.5-30.4)
60-day	13.0 (10.8-15.6)	14.3 (11.8-17.2)	16.5 (13.6-19.9)	18.3 (15.0-22.2)	20.8 (16.3-26.3)	22.7 (17.4-29.5)	24.6 (18.1-33.1)

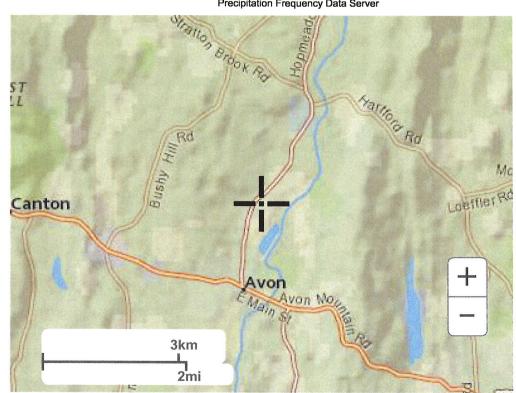
¹ Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (P Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probable estimates (for a given duration and average recurrence interval) will be greater than the upper bound (or less than upper bounds are not checked against probable maximum precipitation (PMP) estimates and may be higher than Please refer to NOAA Atlas 14 document for more information.

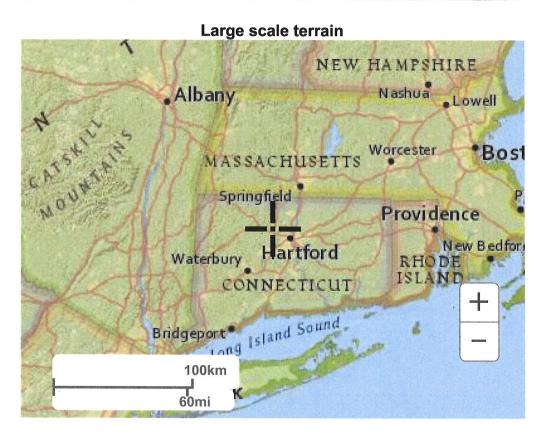
Back to Top

PF graphical

PDS-based depth-duration-frequency (DDF) curves Latitude: 41.8261°, Longitude: -72.8248°







Large scale map

Attachment 2

Surficial Soils Map And On-site Soil Types



MAP LEGEND

Very Stony Spot Stony Spot Spoil Area Wet Spot Other W 8 \$ 0 Soil Map Unit Polygons Area of Interest (AOI) Soil Map Unit Points Soil Map Unit Lines Area of Interest (AOI) Soils

	Special Line F	
)	ţ	

-eatures



Special Point Features

Blowout

Borrow Pit

Clay Spot



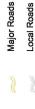




Streams and Canals



Closed Depression



Gravelly Spot

Gravel Pit





Marsh or swamp

Lava Flow

Landfill

Miscellaneous Water Mine or Quarry

Perennial Water 0

Rock Outcrop

Saline Spot

Sandy Spot

Severely Eroded Spot 0

Slide or Slip Sinkhole

Sodic Spot

The soil surveys that comprise your AOI were mapped at

MAP INFORMATION

contrasting soils that could have been shown at a more detailed misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of Enlargement of maps beyond the scale of mapping can cause Warning: Soil Map may not be valid at this scale.

Please rely on the bar scale on each map sheet for map measurements. Source of Map: Natural Resources Conservation Service Coordinate System: Web Mercator (EPSG:3857) Web Soil Survey URL:

Maps from the Web Soil Survey are based on the Web Mercator distance and area. A projection that preserves area, such as the projection, which preserves direction and shape but distorts Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required. This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Survey Area Data: Version 20, Jun 9, 2020 State of Connecticut Soil Survey Area:

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger. Date(s) aerial images were photographed: Jul 15, 2019—Aug 29, 2019

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

USDA

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
34A	Merrimac fine sandy loam, 0 to 3 percent slopes	1.6	9.7%
38A	Hinckley loamy sand, 0 to 3 percent slopes	0.7	4.3%
306	Udorthents-Urban land complex	14.3	86.0%
Totals for Area of Interest		16.6	100.0%

Hesketh



Civil & Traffic Engineers • Surveyors • Planners • Landscape Architects

F. A. Hesketh & Associates, Inc.

F. A. HESKETH & ASSOCIATES, INC.

3 Creamery Brook East Granby, CT 06026 (860) 653-8000 (860) 844-8600(Fax) email: ghesketh@fahesketh.com

MEMORANDUM

To:

Jeff Shea, P.E.

Date: May 3, 2021

From:

Guy Hesketh, P.E.

Subject:

Response to Engineering Comments Talcott Mountain Self Storage

Our File:

21126

Please find a copy of Sheet GR-1 (revised May 3, 2021) that depicts locations and data related to test pits and in-situ infiltration testing done as a follow-up to Comment 2 of your April 27, 2012 review memorandum. Also attached are calculations and data related to insitu infiltration testing, as well as our conclusions as to the suitability of proposed infiltration systems depicted on the plans.

On Monday May 3, five test pits were conducted at the subject site. The test pits were conducted with a mini-excavator by advancing holes to 7 feet below existing grade. The soil profile was logged for each test pit, following the protocol used for the conduct of test pits under CT DOH guidelines for septic field evaluations. The locations of the test pits and soil profile logs are depicted on Sheet GR-1 (revised May 3, 2021), attached. Two locations were selected in the area of the proposed Water Quality/Infiltration basin (TP-1 and TP-2), and two in the area of proposed underground infiltration chamber systems (TP-3 and Tp-4). An additional test pit (TP-5) was conducted in the area of the proposed berm.

PVC standpipes were installed in the four of the test pits, TP-1, TP-2, TP-3 and TP-4. The pipes consist of ten-foot long, 4-inch diameter solid pipe. Following excavation of the pits, the pipe was placed by pushing the pipe into the bottom of pipe pushed into the sand at the bottom of the excavation, and the excavation was backfilled as the pipes were maintained as plumb as possible. The amount of pipe exposed at the natural ground surface was measured (noted as stick-up) on the soil profile logs. Subtracting the stick-up

Jeff Shea April 30, 2021 Page 2

MEMORANDUM

length from the ten-foot pipe length indicates the depth below grade for the bottom of the pipe. In all case, the bottom of the pipe was placed below the proposed depth of the infiltration galleys or bottom elevation of the water quality/infiltration basin and in soils that is characteristic of the soil profile below the infiltration structures.

Following backfilling of the test pits, water was poured in the pipe until water overflowed the top of the pipe, and time was noted as the "pre-soak" time. After the water dropped to below the natural ground surface, the pipes were re-filled and the rate of decent was noted and logged. The drop in inches at time intervals was measured for each standpipe and the data summarized on a spreadsheet. The steady-state drop rate as water neared the bottom of the pipe was calculated to determine the average infiltration rate. Collected data and analysis is provide in the attached spreadsheets. A summary of the data is also included in the attached Table 1.

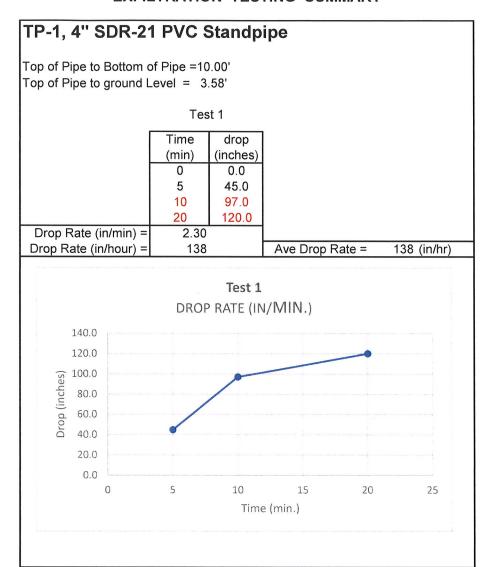
The data indicated the following:

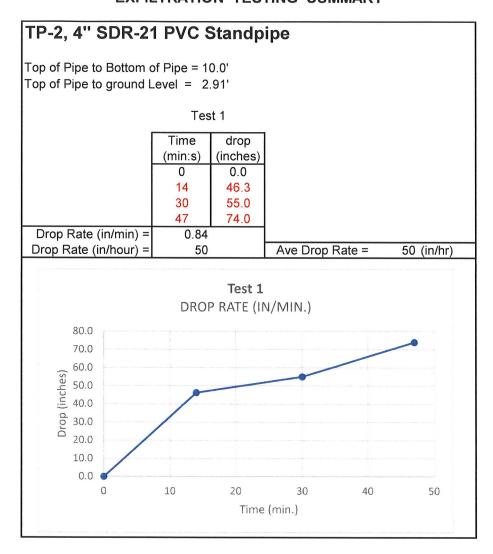
- Subsurface soils are sands and gravels and are suitable soil types for the infiltration systems proposed.
- The groundwater table is located significantly below the bottom of the proposed Water Quality/Infiltration basin and proposed infiltration galley systems. There would be no reduction in the volumetric capacity of the basins or storage systems due to the presence of high groundwater conditions.
- The subsurface soils have sufficient permeability to provide for complete evacuation of the infiltration basin and underground storage systems within a few hours after termination of a precipitation event. Assuming the long-term infiltration rate was 25% of the slowest measured infiltration rate (27 in/hr), which would be 6.75 in/hr. The infiltration galley systems would completely drain in (36 inches) / (6.75 in/hr.) = 5.33 hours. And the Water Quality/Infiltration Basin in (36 inches/6.75 in/hr. = 5.33 hours. These calculated times indicate complete infiltration in much less than the 48-to 72-hr period recommended by the SWQM.

Simsbury Self Storage

Table 1Stand Pipe and Infiltration Data

						Star	Standpipe	
Tort Dir	Ground	Depth of	Depth of El. of bottom Groundwater	Groundwater	Bottom of Basin or Chamber	S+irk-110	Bottom of	Infiltration
ID ID		(feet)	(feet)	(feet)	Elevation (feet)	(feet)	(feet)	(in/hr)
TP-1	193.5	7.0	186.5	186.5	190.0	3.6	187.1	138
TP-2	194.3	7.0	187.3	187.3	190.0	2.9	187.2	50
TP-3	194.0	7.0	187.0	188.7	192.0	4.6	188.6	34
TP-4	196.5	7.0	189.5	189.5	192.5	3.2	189.7	27
TP-5	195.7	7.0	188.7	188.7 NA	NA	NA	NA	NA



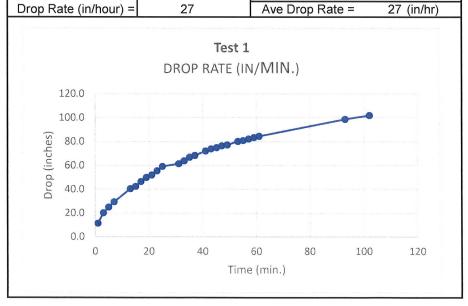


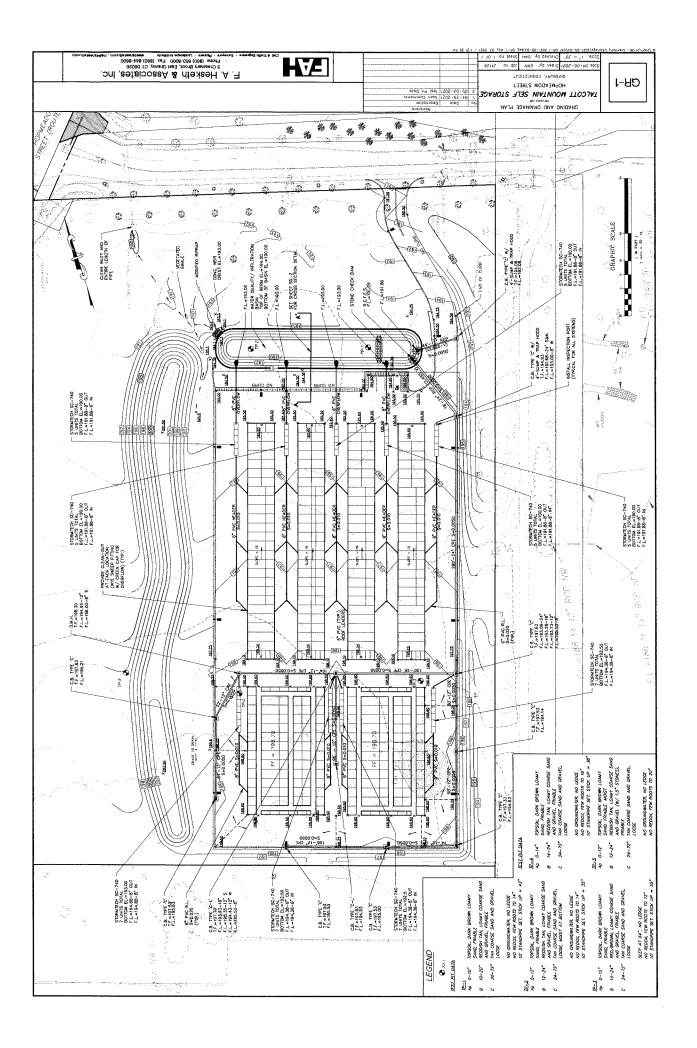
TP-3, 4" SDR-21 PVC Standpipe Top of Pipe to Bottom of Pipe =10.00' Top of Pipe to ground Level = 4.66' Test 1 Time drop (inches) (min) 0 0.0 1 5.5 3 9.0 5 11.3 7 15.0 9 17.5 11 19.8 13 22.5 15 24.0 17 26.3 19 27.3 21 29.8 23 31.0 25 32.5 27 34.3 29 35.8 31 37.0 33 38.5 35 40.0 37 41.3 39 42.0 41 44.5 45 48.5 63 55.8 73 64.5 Drop Rate (in/min) = 0.63 Drop Rate (in/hour) = 38 Ave Drop Rate = 38 (in/hr) Test 1 DROP RATE (IN/MIN.) 40.0 35.0 Orope 30.0 prob 25.0 prob 20.0 prob 15.0 prob 10.0 30.0 10.0 5.0 0.0 5 10 15 20 25 30 35 Time (min.)

TP-4, 4" SDR-21 PVC Standpipe Top of Pipe to Bottom of Pipe =10.00' Top of Pipe to ground Level = 3.2'

Test 1

	Time	drop		
	(min)	(inches)		
	1	11.5		
	3	20.3		
	3 5 7	25.0		
	7	29.5		
	13	40.5		
	15	42.5		
	17	46.5		
	19	50.0		
	21	52.0		
	23	55.5		
	25	59.3		
	31	61.5		
	33	64.0		
	35	67.0		
	37	68.5		
	41	72.3		
	43	74.0		
	45	75.0		
	47	76.5		
	49	77.3		
	53	80.3		
	55	81.0		
	57	82.3		
	59	83.5		
	61	84.5		
	93	98.8		
	102	102.0		
Drop Rate (in/min) =				
Drop Rate (in/hour) =	27		Ave Drop Rate =	27 (in/hr)





Attachment 3

Hydrologic Calculations Water Quality Volume Calculations

CURALEAF - 34 Hopmeadow Simsbury, Connecticut

U.G. Infiltration System

8/25/2021

Stage-Storage Relationship

Number of SC-740 Chambers = 72

Minimum-recommended Water Quality Volume = 3,245 CU FT

WQV Provided whithin chamber system at beneath elevation 194.00: Storage vol.@ el. 195.00 = **5,393 CU FT**

72 Chambers Provided: Total Storage = 5,393 CU FT

Elevation	U.G. Chamber Storage Volume per LF (CU FT)	Chamber System Length (FT)	Incremental Storage Volume (CU FT)	Cumulative Storage Volume (CU FT)
	Stormceptor Units ***			
191.50	0.000	512	0	0
192.00	0.950	512	487	487
192.50	2.044	512	1048	1534
193.00	1.956	512	1002	2537
193.50	1.821	512	933	3470
194.00	1.612	512	826	4296
194.50	1.192	512	611	4906
195.00	0.950	512	487	5393

Storage per Cha (CU F	mber
	0
	6.76
	21.31
	35.23
	48.19
	59.66
	68.14
	74.9

^{*} see cut sheet for volumetric capacity of unit and stone fill

Water Quality Volume Size Calculations 34 Hopmeadow, Simsbury, Connecticut

August 25, 2021

Minimum-Recommended Water Quality Volume (WQV)

Watershed	Total Area (Ac) A	Impervious Area (Ac)	Impervious (%) I	Runoff (R)	Min. Rec. WQV Min. Rec. WQV (ac-ft)	Min. Rec. WQV (Cu.Ft.)
PR-NORTH-DET	0.94	0.94	100.0	0.9500	0.07449	3,245

 $MQV = \frac{(1")(R)(A)}{12}$

WQV = water quality volume (ac-ft)

R = volumetric runoff coefficient 0.05+0.009(I) I = percent impervious cover

A= Site area (acres)





STORMTECH SC-740 CHAMBER

Designed to meet the most stringent industry performance standards for superior structural integrity while providing designers with a cost-effective method to save valuable land and protect water resources. The StormTech system is designed primarily to be used under parking lots, thus maximizing land usage for private (commercial) and public applications. StormTech chambers can also be used in conjunction with Green Infrastructure, thus enhancing the performance and extending the service life of these practices.

STORMTECH SC-740 CHAMBER

(not to scale)

Nominal Chamber Specifications

Size (LxWxH)

85.4" x 51" x 30"

2,170 mm x 1,295 mm x 762 mm

Chamber Storage

45.9 ft3 (1.30 m3)

Min. Installed Storage*

74.9 ft3 (2.12 m3)

Weight

74.0 lbs (33.6 kg)

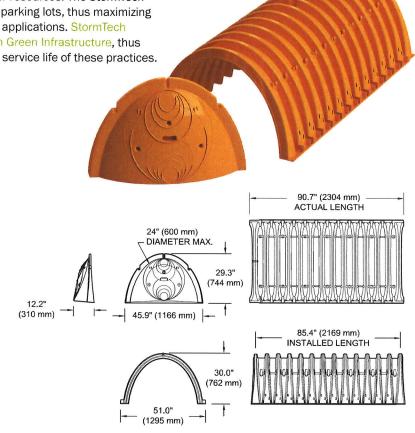
Shipping

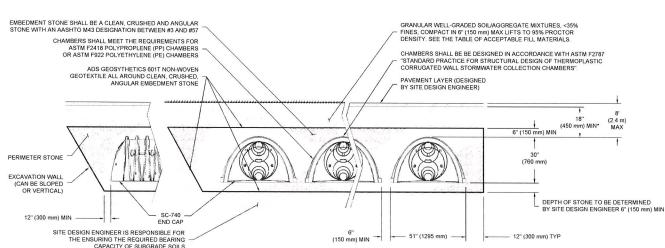
30 chambers/pallet

60 end caps/pallet

12 pallets/truck

*Assumes 6" (150 mm) stone above, below and between chambers and 40% stone porosity.









SC-740 CUMULATIVE STORAGE VOLUMES PER CHAMBER

Assumes 40% Stone Porosity. Calculations are Based Upon a 6" (150 mm) Stone Base Under Chambers.

a 6 (150 mm) 5to	ne base or	idei ona	mbers.
Depth of Water in	Cumulative		Total System Cumulative
System Inches (mm)	Storage f	t³ (m³)	Storage ft ³ (m ³)
42 (1067)	A 45	5.90 (1.300)	74.90 (2.121)
41 (1041)		5.90 (1.300)	73.77 (2.089)
40 (1016)		5.90 (1.300)	72.64 (2.057)
39 (991)		5.90 (1.300)	71.52 (2.025)
38 (965)	45	5.90 (1.300)	70.39 (1.993)
37 (940)		5.90 (1.300)	69.26 (1.961)
36 (914)	45	5.90 (1.300)	68.14 (1.929)
35 (889)	45	5.85 (1.298)	66.98 (1.897)
34 (864)	45	5.69 (1.294)	65.75 (1.862)
33 (838)	45	5.41 (1.286)	64.46 (1.825)
32 (813)	44	1.81 (1.269)	62.97 (1.783)
31 (787)	44	1.01 (1.246)	61.36 (1.737)
30 (762)	43	3.06 (1.219)	59.66 (1.689)
29 (737)	4	1.98 (1.189)	57.89 (1.639)
28 (711)	41	0.80 (1.155)	56.05 (1.587)
27 (686)	3:	9.54 (1.120)	54.17 (1.534)
26 (660)	3	8.18 (1.081)	52.23 (1.479)
25 (635)	30	6.74 (1.040)	50.23 (1.422)
24 (610)	35	5.22 (0.977)	48.19 (1.365)
23 (584)	33	3.64 (0.953)	46.11 (1.306)
22 (559)	31	.99 (0.906)	44.00 (1.246)
21 (533)	30).29 (0.858)	1.85 (1.185)
20 (508)	28	3.54 (0.808)	39.67 (1.123)
19 (483)	26	6.74 (0.757)	37.47 (1.061)
18 (457)	24	1.89 (0.705)	35.23 (0.997)
17 (432)	23	3.00 (0.651)	32.96 (0.939)
16 (406)	21	.06 (0.596)	30.68 (0.869)
15 (381)	19	9.09 (0.541)	28.36 (0.803)
14 (356)	17	7.08 (0.484)	26.03 (0.737)
13 (330)	15	5.04 (0.426)	23.68 (0.670)
12 (305)	12	.97 (0.367)	21.31 (0.608)
11 (279)	10).87 (0.309)	18.92 (0.535)
10 (254)	{	3.74 (0.247)	16.51 (0.468)
9 (229)	(6.58 (0.186)	14.09 (0.399)
8 (203)		4.41 (0.125)	11.66 (0.330)
7 (178)	2	2.21 (0.063)	9.21 (0.264)
6 (152)		0 (0)	6.76 (0.191)
5 (127)		0 (0)	5.63 (0.160)
4 (102)	Stone	0 (0)	4.51 (0.128)
3 (76)	Foundation	0 (0)	3.38 (0.096)
2 (51)	different materials and account that and the second	0 (0)	2.25 (0.064)
1 (25)	¥	0 (0)	1.13 (0.032)

Note: Add 1.13 ft 3 (0.032 m 3) of storage for each additional inch (25 mm) of stone foundation.

STORAGE VOLUME PER CHAMBER FT3 (M3)

	Bare Chamber		hamber and S Idation Depth	
	Storage ft³ (m³)	6 (150)	12 (300)	18 (450)
SC-740 Chamber	45.9 (1.3)	74.9 (2.1)	81.7 (2.3)	88.4 (2.5)

Note: Assumes 6" (150 mm) stone above chambers, 6" (150 mm) row spacing and 40% stone porosity.

AMOUNT OF STONE PER CHAMBER

ENCLICH TONC (d-3)	Stor	ne Foundation D	epth
ENGLISH TONS (yds ³)	6"	12"	16"
SC-740	3.8 (2.8)	4.6 (3.3)	5.5 (3.9)
METRIC KILOGRAMS (m³)	150 mm	300 mm	450 mm
SC-740	3,450 (2.1)	4,170 (2.5)	4,490 (3.0)

Note: Assumes 6" (150 mm) of stone above and between chambers.

VOLUME EXCAVATION PER CHAMBER YD3 (M3)

Late 1	Stone Foundation Depth		
	6 (150)	12 (300)	18 (450)
SC-740	5.5 (4.2)	6.2 (4.7)	6.8 (5.2)

Note: Assumes 6" (150 mm) of row separation and 18" (450 mm) of cover. The volume of excavation will vary as depth of cover increases.



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