

Stormwater Management Report

Vessel Multi-Family Development

51 Kreiger Lane
Glastonbury, CT 06033

October 31, 2022

Prepared for:
Vessel Technologies, Inc.
46 West 55th Street
New York, NY 10019

Prepared by:
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1. INTRODUCTION

The project is located at 51 Kreiger Lane in Glastonbury, Connecticut (hereinafter referred to as the "Site") and is identified as Lot N0002 on Tax Assessor's Map E6, Street 3790. The Site is located on the north side of Kreiger Lane, approximately 500 feet east of the intersection of Kreiger Lane and Oak Street. The Site consists of 0.93 acres of undeveloped, vacant meadow with approximately 207 linear feet of frontage along Kreiger Lane (see Figure 1 – Site Location Map). The Site is located in the Planned Commerce 'PC' Zoning District and abutting properties generally consist of commercial and industrial uses.

The existing topography on site is gentle with contours ranging from elevation 110 along the northern property line, to elevation 105 along Kreiger Lane to the south. Per NRCS soil mapping, the underlying soil on the site mostly consists of Hartford Sandy Loam (Hydrologic Soil Group B). The Site is not located within a Flood Hazard Zone or an NDDDB critical area.

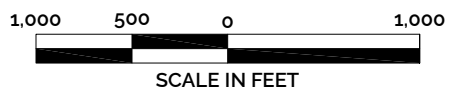
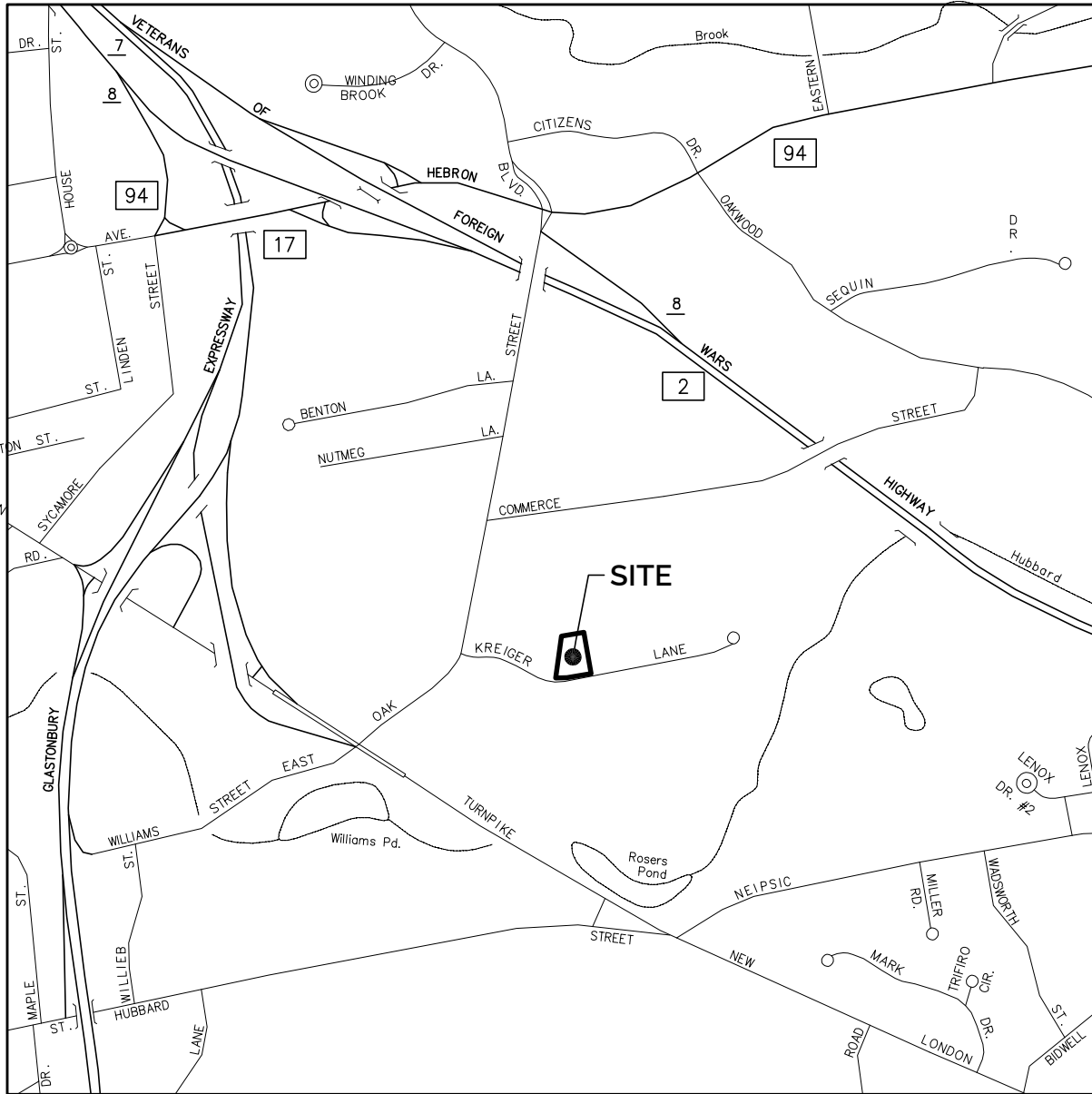
The proposed development consists of the construction of a new four-story 8,592 square foot multi-family residential building, consisting of 48 one-bedroom units. Site improvements will include a new two-way access drives from Kreiger Lane, a new 55 vehicle parking lot, new utility connections, new landscaping improvements, and a new stormwater management system. The proposed development will comply with Connecticut General Statute 8-30g for an affordable housing development.

This report presents the basis of the project hydrologic and hydraulic analysis of the site, the design for the new site drainage systems, and Best Management Practices (BMPs) incorporated into the site design to manage and treat stormwater runoff in accordance with the 2004 CT DEEP Stormwater Quality Manual (SQM) and the Town of Glastonbury Zoning Regulations.

2. PURPOSE OF REPORT

This report presents the basis of design for stormwater management including drainage and stormwater treatment. The report demonstrates that the development:

- Does not substantially increase peak rates of runoff from watersheds encompassing the new buildings and parking areas.
- Does not degrade the quality of receiving groundwater, waterbodies, or watercourses.
- Complies with the 2004 CT DEEP SQM and the Town of Glastonbury Stormwater Management Standards.



PROJECT NO. 2022-0011	SCALE: 1"=1,000'
DRAWN BY: SMM	DATE: 10/31/2022
CHECKED BY: SMM	DATE: 10/31/2022
SHEET NUMBER: 1 OF 1	
DRAWING: FIGURE 1	

**STORMWATER REPORT -
SITE LOCATION MAP**

VESSEL MULTI-FAMILY HOUSING
51 KREIGER LANE, GLASTONBURY, CT 06033

VESSEL TECHNOLOGIES, INC.
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3. BASIS OF DESIGN

The layout, grading and drainage design for the project are shown on the Site Development Plans. The basis of the grading and drainage design is as follows:

1. Rainfall data is from the National Weather Service NOAA Atlas 14, Volume 10, Version 3.
2. Drainage systems are designed to meet the greatest extent practical water quality and peak rate of runoff goals established in the CT DEEP SQM.
3. Stormwater treatment Best Management Practices (BMPs) are designed to remove pollutants, such as nutrients, solids, metals, pathogens, pesticides and hydrocarbons from stormwater runoff and to reduce temperatures of runoff from paved surfaces during hot weather.
4. Pretreatment of runoff for the removal of sediments, oil and grease will be accomplished using deep sump catch basins and outlet hoods.
5. BMPs for this project include two separate underground infiltration/detention systems with isolator rows designed to infiltrate the runoff generated from the proposed building rooftop, and the proposed parking lot..

4. HYDROLOGIC AND HYDRAULIC METHODS

The methods described in Urban Hydrology for Small Watersheds, 2nd Edition, (Technical Release Number 55 [TR-55]) from the Natural Resources Conservation Service formerly the Soil Conservation Service – [SCS], 1986) were used to calculate stormwater peak-flow generated from pre- and post-development conditions. These methods, which are incorporated into the HydroCAD computer software program, use well documented procedures to calculate stormwater runoff volume, peak-flow rate of discharge, hydrographs and storage volumes required for floodwater reservoirs in small watersheds. The method uses the SCS Runoff Curve Number method to estimate runoff volume, calculates times of concentration, produces tabular hydrographs and estimates basin storage capacity. Output data from all computer analysis and design are provided in the Technical Appendix.

This report presents the basis of the hydrologic and hydraulic analysis and design of the stormwater management including drainage and stormwater treatment systems completed in accordance with the Connecticut Department of Transportation Drainage Manual (Drainage Manual). The report also presents a Stormwater Management Plan prepared in accordance, to the greatest extent practical, with the 2004 CT DEEP SQM. Times of concentration applicable to the pre- and post-development were developed using the NRCS-velocity method. A minimum time of concentration of 5 minutes was used for paved surfaces and 10 minutes for vegetated areas.

5. STORMWATER MANAGEMENT

The existing site is vacant, undeveloped meadow. Site improvements will increase impervious areas, resulting in rate and volume increases of stormwater runoff from the Site. Hydrologic

analyses of pre- and post-development conditions were completed to assess these increases and to design mitigation measures for water quality and to reduce post-development discharges.

5.1 Existing Condition Drainage Areas and Analysis Points

The existing drainage pattern for the site in the vicinity of the proposed improvements is characterized by three drainage areas as shown on Figure 2 – Drainage Area Map, and described as follows:

- **DA1:** Approximately 0.48 acres of meadow and roadway that drains to Kreiger Lane and the eastern property line.
- **DA2:** Approximately 0.48 acres of meadow that drains to the western property line.
- **DA3:** Approximately 0.08 acres of meadow and roadway that drains to the existing catch basin in Kreiger Lane.
- **Drainage Analysis Point 1:** The drainage analysis point is the edge of the eastern property line and to the portion of Kreiger Lane in front of the eastern portion of the Site.
- **Drainage Analysis Point 2:** The drainage analysis point is the edge of the western property line.
- **Drainage Analysis Point 3:** The drainage analysis point is to the existing catch basin located along the western edge of the property within Kreiger Lane.

5.2 Proposed Condition Drainage Areas

The proposed development results in the modification of the drainage areas along with changes in impervious coverage (building rooftop, pavement surfaces and concrete surfaces). These conditions are shown on Figure 2 – Drainage Area Map, and described as follows:

- **DA1:** Approximately 0.19 acres of lawn and roadway that drains to Kreiger Lane and the eastern property line.
- **DA2:** Approximately 0.06 acres of lawn that drains to the western property line.
- **DA3:** For analysis purposes the proposed condition DA3 was subdivided into 3 subareas.
 - **DA3A:** Approximately 0.20 acres of new building rooftop that drains to an ADS Stormtech SC-740 underground infiltration system.
 - **DA3B:** Approximately 0.52 acres of pavement, concrete and lawn that drains to an ADS Stormtech SC-740 underground infiltration system.
 - **DA3C:** Approximately 0.08 acres of pavement and lawn that drains to the existing catch basin in Kreiger Lane

Modeling results for the existing and proposed conditions drainage areas are provided in Figure 3 – Stormwater Runoff Summary, and the hydrologic and hydraulic modeling parameters are provided in the HydroCAD printouts (Technical Appendix).

5.3 **Proposed Condition Stormwater Management BMPs**

For the post-development conditions, the intent of the proposed stormwater management improvements is to route stormwater runoff from the impervious surfaces through the proposed stormwater BMPs to provide water quality treatment, peak rate reduction, and promote groundwater recharge through infiltration. Two separate Stormwater Management Areas are included in the design and are described below:

- **Stormwater Management Area A:** ADS Stormtech SC-740 Underground Infiltration System – The stormwater runoff generated from the proposed building rooftop (DA3A) will be collected and discharge into the proposed infiltration system. The proposed ADS Stormtech SC-740 infiltration system will treat stormwater runoff through filtration using one isolator row sized to treat in excess of the Water Quality Flow (WQF) and infiltrate up to the 100-year storm event. Isolator rows are a row of chambers wrapped in filter fabric which allow for sediment settling as stormwater fills the chamber and flows through the filter fabric and into the other chambers. The SC-740 chambers are connected to an outlet control structure which provides an outlet for discharge in case of emergency.
- **Stormwater Management Area B:** ADS Stormtech SC-740 Underground Infiltration System – Two catch basins within the parking area collect and direct surface runoff to the proposed infiltration system. The proposed ADS Stormtech SC-740 infiltration system will treat stormwater runoff through filtration using one isolator row sized to treat in excess of the Water Quality Flow (WQF) and infiltrate up to the 100-year storm event. The SC-740 chambers are connected to an outlet control structure which provides an outlet for discharge in case of emergency.

The Water Quality Volume & Water Quality Flow Calculations for Stormwater Management Areas A and B are included in the Technical Appendix. A summary of the stage and storage volume for Stormwater Management Areas A and B is included in Figure 4 – Stage-Storage Summaries.

5.4 **Storm Drain System Outlet Locations**

Emergency overflow from Stormwater Management Areas A and B are collected in the same conveyance system, as shown on the Grading & Drainage Plan. A 12" HDPE outlet pipe is proposed as the outlet from the Outlet Control Structure, which will discharge to the existing catch basin in Kreiger Lane.

PEAK RATE OF RUNOFF (CFS) SUMMARY

STORM FREQUENCY	ANALYSIS POINT #1 - EASTERN PROPERTY LINE			ANALYSIS POINT #2 - WESTERN PROPERTY LINE		
	EXISTING	PROPOSED	CHANGE	EXISTING	PROPOSED	CHANGE
WQV	0.00	0.00	---	0.00	0.00	---
2 YEAR	0.00	0.01	+0.01	0.00	0.00	---
10 YEAR	0.07	0.12	+0.05	0.01	0.00	-0.01
25 YEAR	0.19	0.25	+0.06	0.08	0.01	-0.07
100 YEAR	0.56	0.48	-0.08	0.33	0.05	-0.28

STORM FREQUENCY	ANALYSIS POINT #3 - KREIGER LANE CATCH BASIN			TOTAL SITE DISCHARGE		
	EXISTING	PROPOSED	CHANGE	EXISTING	PROPOSED	CHANGE
WQV	0.00	0.00	---	0.00	0.00	---
2 YEAR	0.03	0.11	+0.08	0.03	0.11	+0.08
10 YEAR	0.13	0.25	+0.12	0.14	0.37	+0.23
25 YEAR	0.21	0.35	+0.14	0.37	0.59	+0.22
100 YEAR	0.34	0.49	+0.15	1.11	1.01	-0.10

RUNOFF VOLUME (CF) SUMMARY

STORM FREQUENCY	ANALYSIS POINT #1 - EASTERN PROPERTY LINE			ANALYSIS POINT #2 - WESTERN PROPERTY LINE		
	EXISTING	PROPOSED	CHANGE	EXISTING	PROPOSED	CHANGE
WQV	0	0	---	0	0	---
2 YEAR	42	104	+62	0	0	---
10 YEAR	634	514	-120	312	40	-272
25 YEAR	1,282	878	-404	778	101	-677
100 YEAR	2,591	1,551	-1,040	1,814	235	-1,579

STORM FREQUENCY	ANALYSIS POINT #3 - KREIGER LANE CATCH BASIN			TOTAL SITE DISCHARGE		
	EXISTING	PROPOSED	CHANGE	EXISTING	PROPOSED	CHANGE
WQV	0	17	+17	0	17	+17
2 YEAR	145	350	+205	186	453	+267
10 YEAR	434	758	+324	1,380	1,312	-68
25 YEAR	657	1,036	+379	2,717	2,014	-703
100 YEAR	1,038	1,531	+493	5,443	3,317	-2,126

PROJECT NO. 2022-0011	SCALE: N.T.S.	STORMWATER REPORT - STORMWATER RUNOFF SUMMARY VESSEL MULTI-FAMILY HOUSING 51 KREIGER LANE, GLASTONBURY, CT 06033 VESSEL TECHNOLOGIES, INC. 46 WEST 55TH STREET, NEW YORK, NY 10019	H+H ENGINEERING ASSOCIATES 232 Greenmanville Avenue Suite 201 Mystic, CT 06355 860-980-8008 (O); 413-579-4488 (M) www.hh-engineers.com
DRAWN BY: SMM	DATE: 10/31/2022		
CHECKED BY: SMM	DATE: 10/31/2022		
SHEET NUMBER:	1 OF 1		
DRAWING: FIGURE 3			

**STORMWATER MANAGEMENT AREA 'A'
ADS STORMTECH SC-740 INFILTRATION SYSTEM**

STORM FREQUENCY	WATER SURFACE ELEVATION (FT.)	STORAGE VOLUME (CF)
WQV	99.82	5
2 YEAR	100.32	145
10 YEAR	100.93	458
25 YEAR	101.46	717
100 YEAR	102.52	1,158

ADS STORMTECH SC-740 INFILTRATION SYSTEM ELEVATIONS:

TOP OF STONE ELEV. = 103.3
TOP OF CHAMBER ELEV. = 102.8
BOTTOM OF CHAMBER ELEV. = 100.3
BOTTOM OF STONE ELEV. = 99.8

OUTLET CONTROL STRUCTURE ELEVATIONS:
TOP OF FRAME (MANHOLE COVER) ELEV. = 107.2
RECTANGULAR WEIR INV. ELEV. = 102.6
12" INV. OUT ELEV. = 101.3

EXFILTRATION RATE = 20.0 IN/HR

**STORMWATER MANAGEMENT AREA 'B'
ADS STORMTECH SC-740 INFILTRATION SYSTEM**

STORM FREQUENCY	WATER SURFACE ELEVATION (FT.)	STORAGE VOLUME (CF)
WQV	99.81	7
2 YEAR	100.25	291
10 YEAR	100.92	1,118
25 YEAR	101.49	1,822
100 YEAR	102.65	2,990

ADS STORMTECH SC-740 INFILTRATION SYSTEM ELEVATIONS:

TOP OF STONE ELEV. = 103.3
TOP OF CHAMBER ELEV. = 102.8
BOTTOM OF CHAMBER ELEV. = 100.3
BOTTOM OF STONE ELEV. = 99.8

OUTLET CONTROL STRUCTURE ELEVATIONS:
TOP OF FRAME (MANHOLE COVER) ELEV. = 107.2
RECTANGULAR WEIR INV. ELEV. = 102.6
12" INV. OUT ELEV. = 101.3

EXFILTRATION RATE = 20.0 IN/HR

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SHEET NUMBER:	1 OF 1
DRAWING: FIGURE 4	

**STORMWATER REPORT -
STORMWATER TREATMENT PRACTICES
STAGE-STORAGE SUMMARIES**

VESSEL MULTI-FAMILY HOUSING
51 KREIGER LANE, GLASTONBURY, CT 06033
VESSEL TECHNOLOGIES, INC.
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6. SOURCE CONTROL AND POLLUTION PREVENTION MAINTENANCE AND OPERATION

Source control and pollution prevention practices for this project are intended to eliminate the generation of pollutants at their source, reduce the types and concentration of pollutants in stormwater runoff and to assure that the BMPs continue to function to remove oil and grease and TSS. The site property managers will be responsible for maintaining the stormwater management system and the goal of this section is to inform managers about system operations.

The following maintenance and operation measures are recommended for source control.

Parking Lots

The access drive and parking areas shall be swept once per year, preferably after the end of the winter sanding season.

Landscaping

Normal landscaping maintenance shall consist of pruning, mulching, planting, mowing lawns, raking leaves, etc. Use of fertilizers and pesticides will be controlled and limited to minimal amounts necessary for healthy landscape maintenance.

Trees will be fertilized no more than once in the spring with an organic fertilizer. Shrubs and lawn will be fertilized with an organic slow-release fertilizer each spring. Liming of lawn areas to control pH will also be done in the spring if soil testing indicates that it is necessary.

Pesticides will only be used as a control method when a problem has been clearly identified and other natural control methods are not successful. All pesticide applications shall be by licensed applicators, where necessary.

Trash Collection

Trash receptacles service the facility, and a dumpster exists on-site. The pickup of trash will occur on a regular basis and all trash will be disposed of legally off-site.

Outdoor Storage

There will be no outdoor storage of hazardous chemicals, fertilizer, pesticides, or herbicides anywhere on site.

Snow Removal & Storage

Snow shall be shoveled and plowed from sidewalk and parking areas as soon as practical during and after winter storms and deposited in snow storage areas on the site or removed.

Catch Basins and Manholes

A Connecticut-Licensed hauler shall pump the sumps of onsite catch basins and manholes and shall dispose of the sand legally. Road sand may be reused for winter sanding but may not be

stored on-site. As part of the hauling contract, the hauler shall notify the property owner in writing where the material is being disposed.

For the first three years each catch basin and manhole shall be inspected every four months, with one inspection occurring during the month of April. Any debris occurring within one foot from the bottom of each sump shall be removed by Vacuum "Vactor" type of maintenance equipment. After the first three years the inspection schedule may be adjusted to meet actual operating conditions, however, one inspection shall always be conducted in April.

Stormtech underground infiltration systems and Isolator Rows

The Isolator rows shall be cleaned at the end of construction once the contributing areas are fully stabilized. For the first year of operation following construction, the chamber rows shall be inspected once every 6 months.

After the first year of operation, the chambers shall be inspected a minimum of once per year. If upon visual inspection it is found that sediment has accumulated, a stadia rod should be inserted to determine the depth of the sediment. When the average depth of accumulation exceeds 3", a clean-out should be performed and properly disposed off-site. Clean-out should be accomplished using a Jetvac process.

A detailed maintenance logbook shall be kept on-site for the units by the property owner/manager. Information is to include, but not be limited to, the date of inspection, record of sediment depth, general observations, and date of cleaning performed.

Maintenance of all Stormtech systems should follow all manufacturers' recommendations.

7. CONCLUSION

The new stormwater management improvements were designed in accordance with the 2004 CT DEEP SQM and Glastonbury regulations. BMPs were incorporated in the site design to treat in excess of the WQV/WQF, infiltrate the runoff from the new building rooftop and new parking lot up to the 100-year storm event.

Technical Appendices for Stormwater Management Report

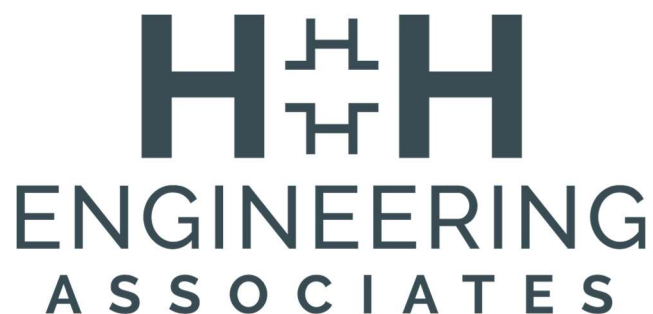
Vessel Multi-Family Development

51 Kreiger Lane
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**Appendix A –
Water Quality Volume
and Water Quality Flow
Calculations**

WQV & WQF CALCULATIONS - STORMWATER MANAGEMENT AREA 'A'

Project: 51 Kreiger Lane, Glastonbury
Client: Vessel Technologies, Inc.

Calculated By
SMM

Date
10/31/2022

Water Quality Volume (WQV)

0.20 ac	A = Area draining to the practice
0.20 ac	A _i = Impervious area draining to the practice
1.00 decimal	I = Percent impervious area draining to the practice, in decimal form
0.95 unitless	R _V = Runoff coefficient = 0.05 + (0.9 x I)
0.19 ac-in	WQV = I" x R _V x A
690 cf	WQV conversion (ac-in x 43,560 sf/ac x 1ft/12")

Water Quality Flow (WQF)

1.00 inches	P = amount of rainfall.
0.95 inches	Q = Water Quality Depth. Q=WQV/A
100 unitless	CN = unit peak discharge curve number. CN=1000/(10+5P+10Q-10*[Q ² +1.25*Q*P] ^{0.5})
0.0 inches	S = potential maximum retention. S = (1000/CN) - 10
0.009 inches	Ia = initial abstraction. Ia=0.2S
5.0 minutes	T _c = Time of Concentration
650.0 cfs/mi ² /in	qu is the unit peak discharge. Obtain this value from TR-55 exhibits 4-II and 4-III
0.193 cfs	WQF = qu x WQV. Conversion: to convert "cfs/mi ² /in * ac-in" to "cfs" multiply by 1mi ² /640ac

Design Stormwater Management Area 'A'

Notes: **ADS Stormtech SC-740 Infiltration System**
 ADS Stormtech SC-740 Isolator Row Sizing:
 One isolator row is provided.
 Treated flow rate = 0.26 CFS / unit X 8 units = 2.08 CFS
 Treated flow rate > WQF
 (Inflow rate from 100-year storm event = 1.54 CFS)
 qu obtained from exhibit 4-III for NRCS type III rainfall distribution



WQV & WQF CALCULATIONS - STORMWATER MANAGEMENT AREA 'B'

Project: 51 Kreiger Lane, Glastonbury
Client: Vessel Technologies, Inc.

Calculated By **Date**
 SMM 10/31/2022

Water Quality Volume (WQV)

- 0.52 ac A = Area draining to the practice
- 0.46 ac A_i = Impervious area draining to the practice
- 0.90 decimal I = Percent impervious area draining to the practice, in decimal form
- 0.86 unitless R_v = Runoff coefficient = 0.05 + (0.9 x I)
- 0.44 ac-in WQV = I" x R_v x A
- 1,606 cf WQV conversion (ac-in x 43,560 sf/ac x 1ft/12")

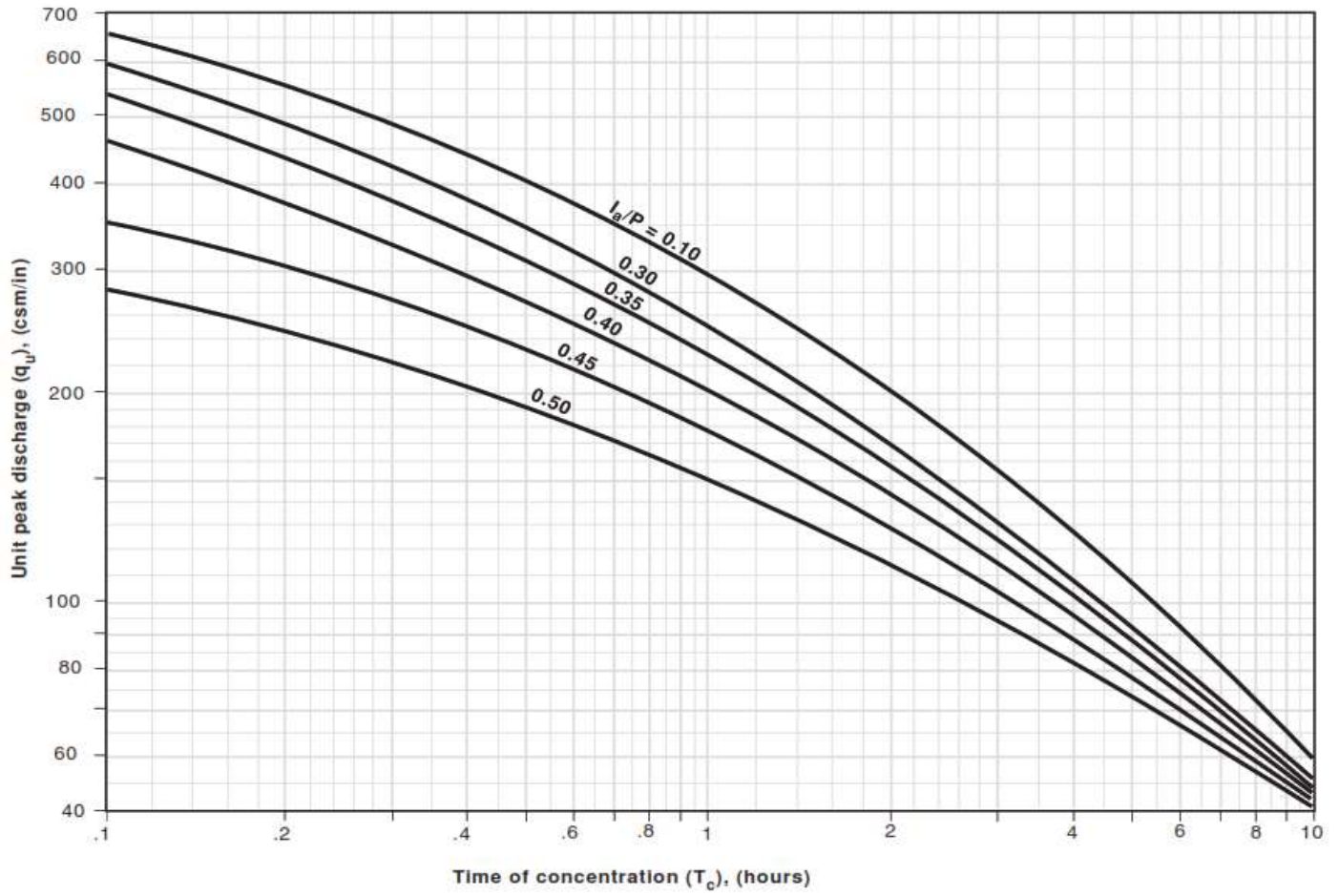
Water Quality Flow (WQF)

- 1.00 inches P = amount of rainfall.
- 0.86 inches Q = Water Quality Depth. Q=WQV/A
- 99 unitless CN = unit peak discharge curve number. CN=1000/(10+5P+10Q-10*[Q²+1.25*Q*P]^{0.5})
- 0.1 inches S = potential maximum retention. S = (1000/CN) - 10
- 0.027 inches I_a = initial abstraction. I_a=0.2S
- 5.0 minutes T_c = Time of Concentration
- 650.0 cfs/mi²/in q_u is the unit peak discharge. Obtain this value from TR-55 exhibits 4-II and 4-III
- 0.449 cfs/mi²/in WQF = q_u x WQV. Conversion: to convert "cfs/mi²/in * ac-in" to "cfs" multiply by 1mi²/640ac

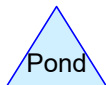
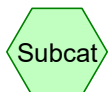
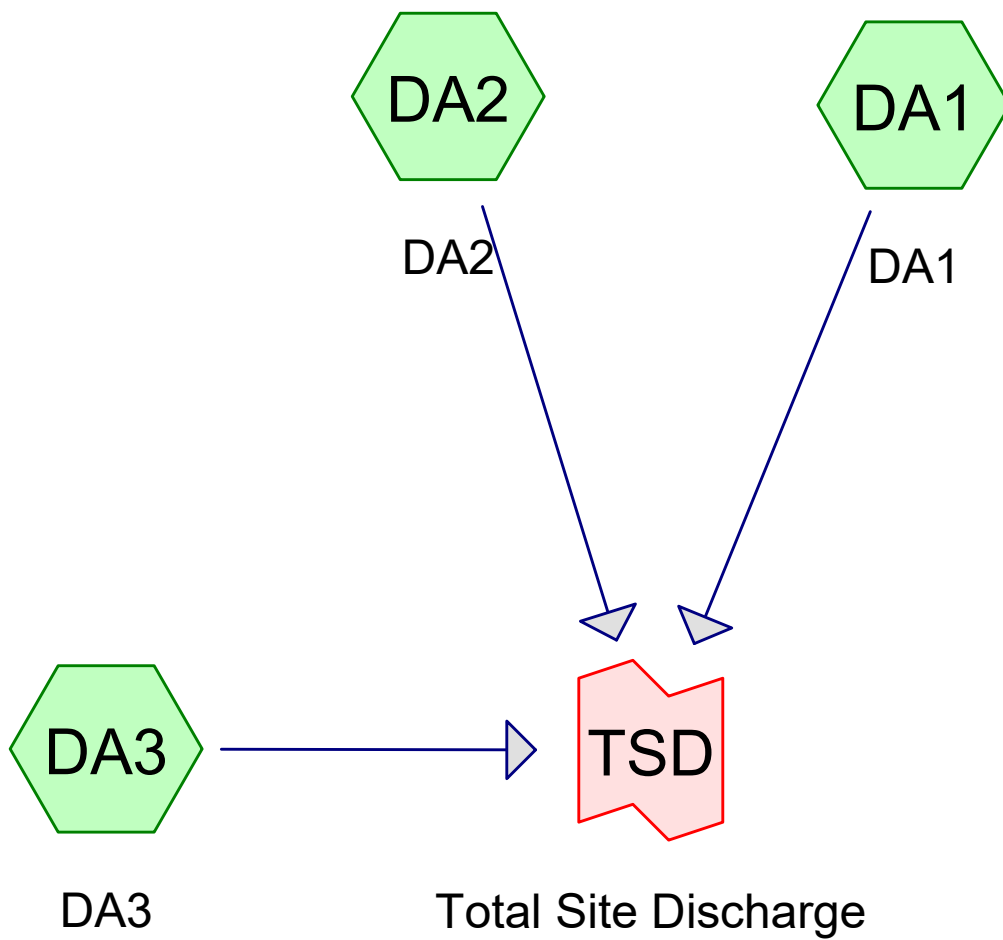
Design Notes: **Stormwater Management Area 'B'**
ADS Stormtech SC-740 Infiltration System
 ADS Stormtech SC-740 Isolator Row Sizing:
 One isolator row is provided.
 Treated flow rate = 0.26 CFS / unit X 6 units = 1.56 CFS
 Treated flow rate > WQF
 (Inflow rate from 2-year storm event = 1.39 CFS)
 q_u obtained from exhibit 4-III for NRCS type III rainfall distribution



Exhibit 4-III Unit peak discharge (q_u) for NRCS (SCS) type III rainfall distribution



**Appendix B –
Pre-Development
HydroCAD Report**



pre development

Prepared by HH Engineering Assoc

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Page 2

Rainfall Events Listing (selected events)

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC
1	WQV	Type III 24-hr		Default	24.00	1	1.00	2
2	2-Year	Type III 24-hr		Default	24.00	1	3.11	2
3	10-Year	Type III 24-hr		Default	24.00	1	4.89	2
4	25-Year	Type III 24-hr		Default	24.00	1	6.00	2
5	100-Year	Type III 24-hr		Default	24.00	1	7.71	2

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Area Listing (all nodes)

Area (sq-ft)	CN	Description (subcatchment-numbers)
42,338	39	Pasture/grassland/range, Good, HSG A (DA1, DA2, DA3)
1,455	98	Paved roads w/curbs & sewers HSG C (DA3)
1,652	98	Paved roads w/curbs & sewers, HSG A (DA1)
45,445	43	TOTAL AREA

pre development

Soil Listing (all nodes)

Area (sq-ft)	Soil Group	Subcatchment Numbers
43,990	HSG A	DA1, DA2, DA3
0	HSG B	
1,455	HSG C	DA3
0	HSG D	
0	Other	
45,445		TOTAL AREA

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Ground Covers (all nodes)

HSG-A (sq-ft)	HSG-B (sq-ft)	HSG-C (sq-ft)	HSG-D (sq-ft)	Other (sq-ft)	Total (sq-ft)	Ground Cover
42,338	0	0	0	0	42,338	Pasture/grassland/range, Good
1,652	0	1,455	0	0	3,107	Paved roads w/curbs & sewers
43,990	0	1,455	0	0	45,445	TOTAL AREA

pre development

Type III 24-hr WQV Rainfall=1.00"

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Time span=0.00-72.00 hrs, dt=0.02 hrs, 3601 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind method - Pond routing by Stor-Ind method

Subcatchment DA1: DA1

Runoff Area=20,855 sf 7.92% Impervious Runoff Depth=0.00"
Flow Length=215' Tc=12.4 min CN=44 Runoff=0.00 cfs 0 cf

Subcatchment DA2: DA2

Runoff Area=20,970 sf 0.00% Impervious Runoff Depth=0.00"
Flow Length=189' Tc=8.3 min CN=39 Runoff=0.00 cfs 0 cf

Subcatchment DA3: DA3

Runoff Area=3,620 sf 40.19% Impervious Runoff Depth=0.00"
Flow Length=113' Tc=4.4 min CN=63 Runoff=0.00 cfs 0 cf

Link TSD: Total Site Discharge

Inflow=0.00 cfs 0 cf
Primary=0.00 cfs 0 cf

Total Runoff Area = 45,445 sf Runoff Volume = 0 cf Average Runoff Depth = 0.00"
93.16% Pervious = 42,338 sf 6.84% Impervious = 3,107 sf

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Type III 24-hr WQV Rainfall=1.00"

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Summary for Subcatchment DA1: DA1

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"

Routed to Link TSD : Total Site Discharge

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

Type III 24-hr WQV Rainfall=1.00"

Area (sf)	CN	Description
19,203	39	Pasture/grassland/range, Good, HSG A
1,652	98	Paved roads w/curbs & sewers, HSG A
20,855	44	Weighted Average
19,203		92.08% Pervious Area
1,652		7.92% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	100	0.0105	0.15		Sheet Flow, Sheetflow Range n= 0.130 P2= 3.43"
0.8	50	0.0220	1.04		Shallow Concentrated Flow, shallow Short Grass Pasture Kv= 7.0 fps
0.7	65	0.0059	1.56		Shallow Concentrated Flow, Shallow Paved Kv= 20.3 fps
12.4	215	Total			

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Type III 24-hr WQV Rainfall=1.00"

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Summary for Subcatchment DA2: DA2

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"

Routed to Link TSD : Total Site Discharge

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

Type III 24-hr WQV Rainfall=1.00"

Area (sf)	CN	Description
20,970	39	Pasture/grassland/range, Good, HSG A
20,970		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	100	0.0294	0.23		Sheet Flow, Sheet Flow Range n= 0.130 P2= 3.43"
1.1	89	0.0378	1.36		Shallow Concentrated Flow, Shallow Short Grass Pasture Kv= 7.0 fps
8.3	189	Total			

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Type III 24-hr WQV Rainfall=1.00"

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Summary for Subcatchment DA3: DA3

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"

Routed to Link TSD : Total Site Discharge

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

Type III 24-hr WQV Rainfall=1.00"

Area (sf)	CN	Description
2,165	39	Pasture/grassland/range, Good, HSG A
1,455	98	Paved roads w/curbs & sewers HSG C
3,620	63	Weighted Average
2,165		59.81% Pervious Area
1,455		40.19% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.9	38	0.0263	0.16		Sheet Flow, Sheet
					Grass: Short n= 0.150 P2= 3.43"
0.5	75	0.0134	2.35		Shallow Concentrated Flow, Shallow
					Paved Kv= 20.3 fps
4.4	113	Total			

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Type III 24-hr WQV Rainfall=1.00"

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Summary for Link TSD: Total Site Discharge

Inflow Area = 45,445 sf, 6.84% Impervious, Inflow Depth = 0.00" for WQV event
Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

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Type III 24-hr 2-Year Rainfall=3.11"

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Time span=0.00-72.00 hrs, dt=0.02 hrs, 3601 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind method - Pond routing by Stor-Ind method

Subcatchment DA1: DA1

Runoff Area=20,855 sf 7.92% Impervious Runoff Depth=0.02"
Flow Length=215' Tc=12.4 min CN=44 Runoff=0.00 cfs 42 cf

Subcatchment DA2: DA2

Runoff Area=20,970 sf 0.00% Impervious Runoff Depth=0.00"
Flow Length=189' Tc=8.3 min CN=39 Runoff=0.00 cfs 0 cf

Subcatchment DA3: DA3

Runoff Area=3,620 sf 40.19% Impervious Runoff Depth=0.48"
Flow Length=113' Tc=4.4 min CN=63 Runoff=0.03 cfs 145 cf

Link TSD: Total Site Discharge

Inflow=0.03 cfs 186 cf
Primary=0.03 cfs 186 cf

Total Runoff Area = 45,445 sf Runoff Volume = 186 cf Average Runoff Depth = 0.05"
93.16% Pervious = 42,338 sf 6.84% Impervious = 3,107 sf

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Type III 24-hr 2-Year Rainfall=3.11"

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Summary for Subcatchment DA1: DA1

Runoff = 0.00 cfs @ 17.10 hrs, Volume= 42 cf, Depth= 0.02"

Routed to Link TSD : Total Site Discharge

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Type III 24-hr 2-Year Rainfall=3.11"

Area (sf)	CN	Description
19,203	39	Pasture/grassland/range, Good, HSG A
1,652	98	Paved roads w/curbs & sewers, HSG A
20,855	44	Weighted Average
19,203		92.08% Pervious Area
1,652		7.92% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	100	0.0105	0.15		Sheet Flow, Sheetflow Range n= 0.130 P2= 3.43"
0.8	50	0.0220	1.04		Shallow Concentrated Flow, shallow Short Grass Pasture Kv= 7.0 fps
0.7	65	0.0059	1.56		Shallow Concentrated Flow, Shallow Paved Kv= 20.3 fps
12.4	215	Total			

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Type III 24-hr 2-Year Rainfall=3.11"

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Summary for Subcatchment DA2: DA2

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"

Routed to Link TSD : Total Site Discharge

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

Type III 24-hr 2-Year Rainfall=3.11"

Area (sf)	CN	Description
20,970	39	Pasture/grassland/range, Good, HSG A
20,970		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	100	0.0294	0.23		Sheet Flow, Sheet Flow Range n= 0.130 P2= 3.43"
1.1	89	0.0378	1.36		Shallow Concentrated Flow, Shallow Short Grass Pasture Kv= 7.0 fps
8.3	189	Total			

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Type III 24-hr 2-Year Rainfall=3.11"

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Summary for Subcatchment DA3: DA3

Runoff = 0.03 cfs @ 12.09 hrs, Volume= 145 cf, Depth= 0.48"

Routed to Link TSD : Total Site Discharge

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Type III 24-hr 2-Year Rainfall=3.11"

Area (sf)	CN	Description
2,165	39	Pasture/grassland/range, Good, HSG A
1,455	98	Paved roads w/curbs & sewers HSG C
3,620	63	Weighted Average
2,165		59.81% Pervious Area
1,455		40.19% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.9	38	0.0263	0.16		Sheet Flow, Sheet Grass: Short n= 0.150 P2= 3.43"
0.5	75	0.0134	2.35		Shallow Concentrated Flow, Shallow Paved Kv= 20.3 fps
4.4	113	Total			

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Type III 24-hr 2-Year Rainfall=3.11"

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Summary for Link TSD: Total Site Discharge

Inflow Area = 45,445 sf, 6.84% Impervious, Inflow Depth = 0.05" for 2-Year event
Inflow = 0.03 cfs @ 12.09 hrs, Volume= 186 cf
Primary = 0.03 cfs @ 12.09 hrs, Volume= 186 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

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Type III 24-hr 10-Year Rainfall=4.89"

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Time span=0.00-72.00 hrs, dt=0.02 hrs, 3601 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind method - Pond routing by Stor-Ind method

Subcatchment DA1: DA1

Runoff Area=20,855 sf 7.92% Impervious Runoff Depth=0.36"
Flow Length=215' Tc=12.4 min CN=44 Runoff=0.07 cfs 634 cf

Subcatchment DA2: DA2

Runoff Area=20,970 sf 0.00% Impervious Runoff Depth=0.18"
Flow Length=189' Tc=8.3 min CN=39 Runoff=0.01 cfs 312 cf

Subcatchment DA3: DA3

Runoff Area=3,620 sf 40.19% Impervious Runoff Depth=1.44"
Flow Length=113' Tc=4.4 min CN=63 Runoff=0.14 cfs 434 cf

Link TSD: Total Site Discharge

Inflow=0.14 cfs 1,380 cf
Primary=0.14 cfs 1,380 cf

Total Runoff Area = 45,445 sf Runoff Volume = 1,380 cf Average Runoff Depth = 0.36"
93.16% Pervious = 42,338 sf 6.84% Impervious = 3,107 sf

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Type III 24-hr 10-Year Rainfall=4.89"

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Summary for Subcatchment DA1: DA1

Runoff = 0.07 cfs @ 12.44 hrs, Volume= 634 cf, Depth= 0.36"

Routed to Link TSD : Total Site Discharge

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
 Type III 24-hr 10-Year Rainfall=4.89"

Area (sf)	CN	Description
19,203	39	Pasture/grassland/range, Good, HSG A
1,652	98	Paved roads w/curbs & sewers, HSG A
20,855	44	Weighted Average
19,203		92.08% Pervious Area
1,652		7.92% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	100	0.0105	0.15		Sheet Flow, Sheetflow Range n= 0.130 P2= 3.43"
0.8	50	0.0220	1.04		Shallow Concentrated Flow, shallow Short Grass Pasture Kv= 7.0 fps
0.7	65	0.0059	1.56		Shallow Concentrated Flow, Shallow Paved Kv= 20.3 fps
12.4	215	Total			

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Type III 24-hr 10-Year Rainfall=4.89"

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Summary for Subcatchment DA2: DA2

Runoff = 0.01 cfs @ 12.54 hrs, Volume= 312 cf, Depth= 0.18"

Routed to Link TSD : Total Site Discharge

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

Type III 24-hr 10-Year Rainfall=4.89"

Area (sf)	CN	Description
20,970	39	Pasture/grassland/range, Good, HSG A
20,970		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	100	0.0294	0.23		Sheet Flow, Sheet Flow Range n= 0.130 P2= 3.43"
1.1	89	0.0378	1.36		Shallow Concentrated Flow, Shallow Short Grass Pasture Kv= 7.0 fps
8.3	189	Total			

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Type III 24-hr 10-Year Rainfall=4.89"

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Summary for Subcatchment DA3: DA3

Runoff = 0.14 cfs @ 12.08 hrs, Volume= 434 cf, Depth= 1.44"

Routed to Link TSD : Total Site Discharge

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
 Type III 24-hr 10-Year Rainfall=4.89"

Area (sf)	CN	Description
2,165	39	Pasture/grassland/range, Good, HSG A
1,455	98	Paved roads w/curbs & sewers HSG C
3,620	63	Weighted Average
2,165		59.81% Pervious Area
1,455		40.19% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.9	38	0.0263	0.16		Sheet Flow, Sheet Grass: Short n= 0.150 P2= 3.43"
0.5	75	0.0134	2.35		Shallow Concentrated Flow, Shallow Paved Kv= 20.3 fps
4.4	113	Total			

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Type III 24-hr 10-Year Rainfall=4.89"

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Summary for Link TSD: Total Site Discharge

Inflow Area = 45,445 sf, 6.84% Impervious, Inflow Depth = 0.36" for 10-Year event
Inflow = 0.14 cfs @ 12.08 hrs, Volume= 1,380 cf
Primary = 0.14 cfs @ 12.08 hrs, Volume= 1,380 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

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Type III 24-hr 25-Year Rainfall=6.00"

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Time span=0.00-72.00 hrs, dt=0.02 hrs, 3601 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind method - Pond routing by Stor-Ind method

Subcatchment DA1: DA1

Runoff Area=20,855 sf 7.92% Impervious Runoff Depth=0.74"
Flow Length=215' Tc=12.4 min CN=44 Runoff=0.19 cfs 1,282 cf

Subcatchment DA2: DA2

Runoff Area=20,970 sf 0.00% Impervious Runoff Depth=0.45"
Flow Length=189' Tc=8.3 min CN=39 Runoff=0.08 cfs 778 cf

Subcatchment DA3: DA3

Runoff Area=3,620 sf 40.19% Impervious Runoff Depth=2.18"
Flow Length=113' Tc=4.4 min CN=63 Runoff=0.22 cfs 657 cf

Link TSD: Total Site Discharge

Inflow=0.36 cfs 2,717 cf
Primary=0.36 cfs 2,717 cf

**Total Runoff Area = 45,445 sf Runoff Volume = 2,717 cf Average Runoff Depth = 0.72"
93.16% Pervious = 42,338 sf 6.84% Impervious = 3,107 sf**

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Type III 24-hr 25-Year Rainfall=6.00"

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Summary for Subcatchment DA1: DA1

Runoff = 0.19 cfs @ 12.27 hrs, Volume= 1,282 cf, Depth= 0.74"

Routed to Link TSD : Total Site Discharge

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Type III 24-hr 25-Year Rainfall=6.00"

Area (sf)	CN	Description
19,203	39	Pasture/grassland/range, Good, HSG A
1,652	98	Paved roads w/curbs & sewers, HSG A
20,855	44	Weighted Average
19,203		92.08% Pervious Area
1,652		7.92% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	100	0.0105	0.15		Sheet Flow, Sheetflow Range n= 0.130 P2= 3.43"
0.8	50	0.0220	1.04		Shallow Concentrated Flow, shallow Short Grass Pasture Kv= 7.0 fps
0.7	65	0.0059	1.56		Shallow Concentrated Flow, Shallow Paved Kv= 20.3 fps
12.4	215	Total			

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Type III 24-hr 25-Year Rainfall=6.00"

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Summary for Subcatchment DA2: DA2

Runoff = 0.08 cfs @ 12.38 hrs, Volume= 778 cf, Depth= 0.45"

Routed to Link TSD : Total Site Discharge

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

Type III 24-hr 25-Year Rainfall=6.00"

Area (sf)	CN	Description
20,970	39	Pasture/grassland/range, Good, HSG A
20,970		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	100	0.0294	0.23		Sheet Flow, Sheet Flow Range n= 0.130 P2= 3.43"
1.1	89	0.0378	1.36		Shallow Concentrated Flow, Shallow Short Grass Pasture Kv= 7.0 fps
8.3	189	Total			

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Type III 24-hr 25-Year Rainfall=6.00"

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Summary for Subcatchment DA3: DA3

Runoff = 0.22 cfs @ 12.07 hrs, Volume= 657 cf, Depth= 2.18"

Routed to Link TSD : Total Site Discharge

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Type III 24-hr 25-Year Rainfall=6.00"

Area (sf)	CN	Description
2,165	39	Pasture/grassland/range, Good, HSG A
1,455	98	Paved roads w/curbs & sewers HSG C
3,620	63	Weighted Average
2,165		59.81% Pervious Area
1,455		40.19% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.9	38	0.0263	0.16		Sheet Flow, Sheet
					Grass: Short n= 0.150 P2= 3.43"
0.5	75	0.0134	2.35		Shallow Concentrated Flow, Shallow
					Paved Kv= 20.3 fps
4.4	113	Total			

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Type III 24-hr 25-Year Rainfall=6.00"

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Summary for Link TSD: Total Site Discharge

Inflow Area = 45,445 sf, 6.84% Impervious, Inflow Depth = 0.72" for 25-Year event
Inflow = 0.36 cfs @ 12.27 hrs, Volume= 2,717 cf
Primary = 0.36 cfs @ 12.27 hrs, Volume= 2,717 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

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Type III 24-hr 100-Year Rainfall=7.71"

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Time span=0.00-72.00 hrs, dt=0.02 hrs, 3601 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind method - Pond routing by Stor-Ind method

Subcatchment DA1: DA1

Runoff Area=20,855 sf 7.92% Impervious Runoff Depth=1.49"
Flow Length=215' Tc=12.4 min CN=44 Runoff=0.53 cfs 2,591 cf

Subcatchment DA2: DA2

Runoff Area=20,970 sf 0.00% Impervious Runoff Depth=1.04"
Flow Length=189' Tc=8.3 min CN=39 Runoff=0.32 cfs 1,814 cf

Subcatchment DA3: DA3

Runoff Area=3,620 sf 40.19% Impervious Runoff Depth=3.44"
Flow Length=113' Tc=4.4 min CN=63 Runoff=0.35 cfs 1,038 cf

Link TSD: Total Site Discharge

Inflow=1.04 cfs 5,443 cf
Primary=1.04 cfs 5,443 cf

**Total Runoff Area = 45,445 sf Runoff Volume = 5,443 cf Average Runoff Depth = 1.44"
93.16% Pervious = 42,338 sf 6.84% Impervious = 3,107 sf**

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Type III 24-hr 100-Year Rainfall=7.71"

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Summary for Subcatchment DA1: DA1

Runoff = 0.53 cfs @ 12.21 hrs, Volume= 2,591 cf, Depth= 1.49"

Routed to Link TSD : Total Site Discharge

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
 Type III 24-hr 100-Year Rainfall=7.71"

Area (sf)	CN	Description
19,203	39	Pasture/grassland/range, Good, HSG A
1,652	98	Paved roads w/curbs & sewers, HSG A
20,855	44	Weighted Average
19,203		92.08% Pervious Area
1,652		7.92% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	100	0.0105	0.15		Sheet Flow, Sheetflow Range n= 0.130 P2= 3.43"
0.8	50	0.0220	1.04		Shallow Concentrated Flow, shallow Short Grass Pasture Kv= 7.0 fps
0.7	65	0.0059	1.56		Shallow Concentrated Flow, Shallow Paved Kv= 20.3 fps
12.4	215	Total			

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Type III 24-hr 100-Year Rainfall=7.71"

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Summary for Subcatchment DA2: DA2

Runoff = 0.32 cfs @ 12.16 hrs, Volume= 1,814 cf, Depth= 1.04"

Routed to Link TSD : Total Site Discharge

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

Type III 24-hr 100-Year Rainfall=7.71"

Area (sf)	CN	Description
20,970	39	Pasture/grassland/range, Good, HSG A
20,970		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	100	0.0294	0.23		Sheet Flow, Sheet Flow Range n= 0.130 P2= 3.43"
1.1	89	0.0378	1.36		Shallow Concentrated Flow, Shallow Short Grass Pasture Kv= 7.0 fps
8.3	189	Total			

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Type III 24-hr 100-Year Rainfall=7.71"

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Summary for Subcatchment DA3: DA3

Runoff = 0.35 cfs @ 12.07 hrs, Volume= 1,038 cf, Depth= 3.44"

Routed to Link TSD : Total Site Discharge

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

Type III 24-hr 100-Year Rainfall=7.71"

Area (sf)	CN	Description
2,165	39	Pasture/grassland/range, Good, HSG A
1,455	98	Paved roads w/curbs & sewers HSG C
3,620	63	Weighted Average
2,165		59.81% Pervious Area
1,455		40.19% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.9	38	0.0263	0.16		Sheet Flow, Sheet
					Grass: Short n= 0.150 P2= 3.43"
0.5	75	0.0134	2.35		Shallow Concentrated Flow, Shallow
					Paved Kv= 20.3 fps
4.4	113	Total			

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Type III 24-hr 100-Year Rainfall=7.71"

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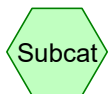
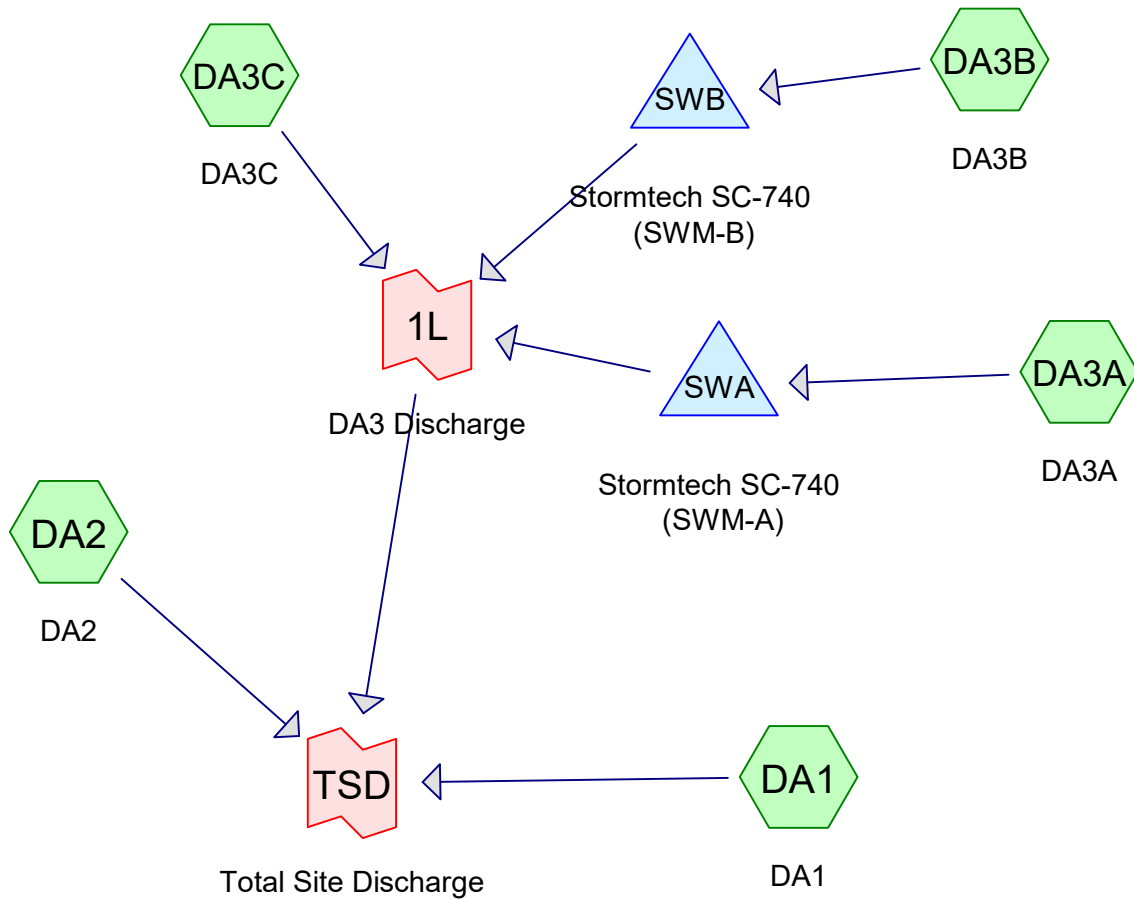
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Summary for Link TSD: Total Site Discharge

Inflow Area = 45,445 sf, 6.84% Impervious, Inflow Depth = 1.44" for 100-Year event
Inflow = 1.04 cfs @ 12.17 hrs, Volume= 5,443 cf
Primary = 1.04 cfs @ 12.17 hrs, Volume= 5,443 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

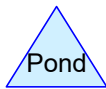
**Appendix C –
Post-Development
HydroCAD Report**



Subcat



Reach



Pond



Link

Routing Diagram for post development

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Rainfall Events Listing (selected events)

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC
1	WQV	Type III 24-hr		Default	24.00	1	1.00	2
2	2-Year	Type III 24-hr		Default	24.00	1	3.11	2
3	10-Year	Type III 24-hr		Default	24.00	1	4.89	2
4	25-Year	Type III 24-hr		Default	24.00	1	6.00	2
5	100-Year	Type III 24-hr		Default	24.00	1	7.71	2

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Area Listing (all nodes)

Area (sq-ft)	CN	Description (subcatchment-numbers)
12,523	39	>75% Grass cover, Good, HSG A (DA1, DA2, DA3B, DA3C)
20,185	98	Paved parking, HSG A (DA3B)
4,184	98	Paved roads w/curbs & sewers, HSG A (DA1, DA3C)
8,592	98	Roofs, HSG A (DA3A)
45,484	82	TOTAL AREA

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Soil Listing (all nodes)

Area (sq-ft)	Soil Group	Subcatchment Numbers
45,484	HSG A	DA1, DA2, DA3A, DA3B, DA3C
0	HSG B	
0	HSG C	
0	HSG D	
0	Other	
45,484		TOTAL AREA

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Ground Covers (all nodes)

HSG-A (sq-ft)	HSG-B (sq-ft)	HSG-C (sq-ft)	HSG-D (sq-ft)	Other (sq-ft)	Total (sq-ft)	Ground Cover
12,523	0	0	0	0	12,523	>75% Grass cover, Good
20,185	0	0	0	0	20,185	Paved parking
4,184	0	0	0	0	4,184	Paved roads w/curbs & sewers
8,592	0	0	0	0	8,592	Roofs
45,484	0	0	0	0	45,484	TOTAL AREA

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Pipe Listing (all nodes)

Line#	Node Number	In-Invert (feet)	Out-Invert (feet)	Length (feet)	Slope (ft/ft)	n	Width (inches)	Diam/Height (inches)	Inside-Fill (inches)
1	SWA	101.30	100.90	63.0	0.0063	0.012	0.0	12.0	0.0
2	SWB	101.30	100.90	63.0	0.0063	0.012	0.0	12.0	0.0

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Type III 24-hr WQV Rainfall=1.00"

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Time span=0.00-72.00 hrs, dt=0.02 hrs, 3601 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind method - Pond routing by Stor-Ind method

Subcatchment DA1: DA1 Runoff Area=8,173 sf 22.75% Impervious Runoff Depth=0.00"
Tc=5.0 min CN=52 Runoff=0.00 cfs 0 cf

Subcatchment DA2: DA2 Runoff Area=2,711 sf 0.00% Impervious Runoff Depth=0.00"
Tc=5.0 min CN=39 Runoff=0.00 cfs 0 cf

Subcatchment DA3A: DA3A Runoff Area=8,592 sf 100.00% Impervious Runoff Depth=0.79"
Tc=5.0 min CN=98 Runoff=0.18 cfs 566 cf

Subcatchment DA3B: DA3B Runoff Area=22,535 sf 89.57% Impervious Runoff Depth=0.40"
Tc=5.0 min CN=92 Runoff=0.25 cfs 756 cf

Subcatchment DA3C: DA3C Runoff Area=3,473 sf 66.95% Impervious Runoff Depth=0.06"
Tc=5.0 min CN=78 Runoff=0.00 cfs 17 cf

Pond SWA: Stormtech SC-740 (SWM-A) Peak Elev=99.82' Storage=5 cf Inflow=0.18 cfs 566 cf
Discarded=0.18 cfs 566 cf Primary=0.00 cfs 0 cf Outflow=0.18 cfs 566 cf

Pond SWB: Stormtech SC-740 (SWM-B) Peak Elev=99.81' Storage=7 cf Inflow=0.25 cfs 756 cf
Discarded=0.25 cfs 756 cf Primary=0.00 cfs 0 cf Outflow=0.25 cfs 756 cf

Link 1L: DA3 Discharge Inflow=0.00 cfs 17 cf
Primary=0.00 cfs 17 cf

Link TSD: Total Site Discharge Inflow=0.00 cfs 17 cf
Primary=0.00 cfs 17 cf

Total Runoff Area = 45,484 sf Runoff Volume = 1,339 cf Average Runoff Depth = 0.35"
27.53% Pervious = 12,523 sf 72.47% Impervious = 32,961 sf

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Type III 24-hr WQV Rainfall=1.00"

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Summary for Subcatchment DA1: DA1

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"

Routed to Link TSD : Total Site Discharge

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

Type III 24-hr WQV Rainfall=1.00"

Area (sf)	CN	Description
1,859	98	Paved roads w/curbs & sewers, HSG A
6,314	39	>75% Grass cover, Good, HSG A
8,173	52	Weighted Average
6,314		77.25% Pervious Area
1,859		22.75% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry, DIRECT

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Summary for Subcatchment DA2: DA2

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"

Routed to Link TSD : Total Site Discharge

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

Type III 24-hr WQV Rainfall=1.00"

Area (sf)	CN	Description
2,711	39	>75% Grass cover, Good, HSG A
2,711		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry, DIRECT

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Type III 24-hr WQV Rainfall=1.00"

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Summary for Subcatchment DA3A: DA3A

Runoff = 0.18 cfs @ 12.07 hrs, Volume= 566 cf, Depth= 0.79"

Routed to Pond SWA : Stormtech SC-740 (SWM-A)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

Type III 24-hr WQV Rainfall=1.00"

Area (sf)	CN	Description
8,592	98	Roofs, HSG A
8,592		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry, DIRECT

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Type III 24-hr WQV Rainfall=1.00"

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Summary for Subcatchment DA3B: DA3B

Runoff = 0.25 cfs @ 12.08 hrs, Volume= 756 cf, Depth= 0.40"

Routed to Pond SWB : Stormtech SC-740 (SWM-B)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

Type III 24-hr WQV Rainfall=1.00"

Area (sf)	CN	Description
20,185	98	Paved parking, HSG A
2,350	39	>75% Grass cover, Good, HSG A
22,535	92	Weighted Average
2,350		10.43% Pervious Area
20,185		89.57% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry, DIRECT

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Type III 24-hr WQV Rainfall=1.00"

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Summary for Subcatchment DA3C: DA3C

Runoff = 0.00 cfs @ 12.38 hrs, Volume= 17 cf, Depth= 0.06"

Routed to Link 1L : DA3 Discharge

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

Type III 24-hr WQV Rainfall=1.00"

Area (sf)	CN	Description
2,325	98	Paved roads w/curbs & sewers, HSG A
1,148	39	>75% Grass cover, Good, HSG A
3,473	78	Weighted Average
1,148		33.05% Pervious Area
2,325		66.95% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry, DIRECT

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Type III 24-hr WQV Rainfall=1.00"

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Summary for Pond SWA: Stormtech SC-740 (SWM-A)

Inflow Area = 8,592 sf, 100.00% Impervious, Inflow Depth = 0.79" for WQV event
 Inflow = 0.18 cfs @ 12.07 hrs, Volume= 566 cf
 Outflow = 0.18 cfs @ 12.08 hrs, Volume= 566 cf, Atten= 1%, Lag= 0.5 min
 Discarded = 0.18 cfs @ 12.08 hrs, Volume= 566 cf
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
 Routed to Link 1L : DA3 Discharge

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
 Peak Elev= 99.82' @ 12.08 hrs Surf.Area= 666 sf Storage= 5 cf

Plug-Flow detention time= 0.5 min calculated for 566 cf (100% of inflow)
 Center-of-Mass det. time= 0.5 min (787.4 - 786.9)

Volume	Invert	Avail.Storage	Storage Description
#1A	99.80'	639 cf	11.00'W x 60.58'L x 3.50'H Field A 2,332 cf Overall - 735 cf Embedded = 1,597 cf x 40.0% Voids
#2A	100.30'	735 cf	ADS_StormTech SC-740 +Cap x 16 Inside #1 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap 16 Chambers in 2 Rows
		1,374 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Primary	101.30'	12.0" Round Outlet Pipe L= 63.0' CPP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 101.30' / 100.90' S= 0.0063 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf
#2	Device 1	102.60'	4.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#3	Discarded	99.80'	20.000 in/hr Exfiltration over Surface area

Discarded OutFlow Max=0.31 cfs @ 12.08 hrs HW=99.82' (Free Discharge)
 ↑**3=Exfiltration** (Exfiltration Controls 0.31 cfs)

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=99.80' (Free Discharge)
 ↑**1=Outlet Pipe** (Controls 0.00 cfs)
 ↑**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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Type III 24-hr WQV Rainfall=1.00"

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Pond SWA: Stormtech SC-740 (SWM-A) - Chamber Wizard Field A

Chamber Model = ADS_StormTech SC-740 +Cap (ADS StormTech® SC-740 with cap length)

Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf

Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap

51.0" Wide + 6.0" Spacing = 57.0" C-C Row Spacing

8 Chambers/Row x 7.12' Long +0.81' Cap Length x 2 = 58.58' Row Length +12.0" End Stone x 2 = 60.58' Base Length

2 Rows x 51.0" Wide + 6.0" Spacing x 1 + 12.0" Side Stone x 2 = 11.00' Base Width

6.0" Stone Base + 30.0" Chamber Height + 6.0" Stone Cover = 3.50' Field Height

16 Chambers x 45.9 cf = 735.0 cf Chamber Storage

2,332.2 cf Field - 735.0 cf Chambers = 1,597.2 cf Stone x 40.0% Voids = 638.9 cf Stone Storage

Chamber Storage + Stone Storage = 1,373.9 cf = 0.032 af

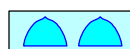
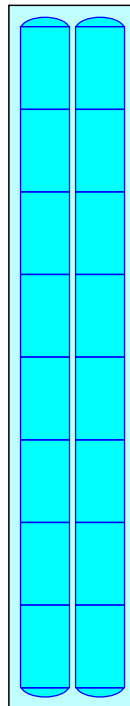
Overall Storage Efficiency = 58.9%

Overall System Size = 60.58' x 11.00' x 3.50'

16 Chambers

86.4 cy Field

59.2 cy Stone



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Stage-Discharge for Pond SWA: Stormtech SC-740 (SWM-A)

Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)	Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)
99.80	0.00	0.00	0.00	100.32	0.31	0.31	0.00
99.81	0.31	0.31	0.00	100.33	0.31	0.31	0.00
99.82	0.31	0.31	0.00	100.34	0.31	0.31	0.00
99.83	0.31	0.31	0.00	100.35	0.31	0.31	0.00
99.84	0.31	0.31	0.00	100.36	0.31	0.31	0.00
99.85	0.31	0.31	0.00	100.37	0.31	0.31	0.00
99.86	0.31	0.31	0.00	100.38	0.31	0.31	0.00
99.87	0.31	0.31	0.00	100.39	0.31	0.31	0.00
99.88	0.31	0.31	0.00	100.40	0.31	0.31	0.00
99.89	0.31	0.31	0.00	100.41	0.31	0.31	0.00
99.90	0.31	0.31	0.00	100.42	0.31	0.31	0.00
99.91	0.31	0.31	0.00	100.43	0.31	0.31	0.00
99.92	0.31	0.31	0.00	100.44	0.31	0.31	0.00
99.93	0.31	0.31	0.00	100.45	0.31	0.31	0.00
99.94	0.31	0.31	0.00	100.46	0.31	0.31	0.00
99.95	0.31	0.31	0.00	100.47	0.31	0.31	0.00
99.96	0.31	0.31	0.00	100.48	0.31	0.31	0.00
99.97	0.31	0.31	0.00	100.49	0.31	0.31	0.00
99.98	0.31	0.31	0.00	100.50	0.31	0.31	0.00
99.99	0.31	0.31	0.00	100.51	0.31	0.31	0.00
100.00	0.31	0.31	0.00	100.52	0.31	0.31	0.00
100.01	0.31	0.31	0.00	100.53	0.31	0.31	0.00
100.02	0.31	0.31	0.00	100.54	0.31	0.31	0.00
100.03	0.31	0.31	0.00	100.55	0.31	0.31	0.00
100.04	0.31	0.31	0.00	100.56	0.31	0.31	0.00
100.05	0.31	0.31	0.00	100.57	0.31	0.31	0.00
100.06	0.31	0.31	0.00	100.58	0.31	0.31	0.00
100.07	0.31	0.31	0.00	100.59	0.31	0.31	0.00
100.08	0.31	0.31	0.00	100.60	0.31	0.31	0.00
100.09	0.31	0.31	0.00	100.61	0.31	0.31	0.00
100.10	0.31	0.31	0.00	100.62	0.31	0.31	0.00
100.11	0.31	0.31	0.00	100.63	0.31	0.31	0.00
100.12	0.31	0.31	0.00	100.64	0.31	0.31	0.00
100.13	0.31	0.31	0.00	100.65	0.31	0.31	0.00
100.14	0.31	0.31	0.00	100.66	0.31	0.31	0.00
100.15	0.31	0.31	0.00	100.67	0.31	0.31	0.00
100.16	0.31	0.31	0.00	100.68	0.31	0.31	0.00
100.17	0.31	0.31	0.00	100.69	0.31	0.31	0.00
100.18	0.31	0.31	0.00	100.70	0.31	0.31	0.00
100.19	0.31	0.31	0.00	100.71	0.31	0.31	0.00
100.20	0.31	0.31	0.00	100.72	0.31	0.31	0.00
100.21	0.31	0.31	0.00	100.73	0.31	0.31	0.00
100.22	0.31	0.31	0.00	100.74	0.31	0.31	0.00
100.23	0.31	0.31	0.00	100.75	0.31	0.31	0.00
100.24	0.31	0.31	0.00	100.76	0.31	0.31	0.00
100.25	0.31	0.31	0.00	100.77	0.31	0.31	0.00
100.26	0.31	0.31	0.00	100.78	0.31	0.31	0.00
100.27	0.31	0.31	0.00	100.79	0.31	0.31	0.00
100.28	0.31	0.31	0.00	100.80	0.31	0.31	0.00
100.29	0.31	0.31	0.00	100.81	0.31	0.31	0.00
100.30	0.31	0.31	0.00	100.82	0.31	0.31	0.00
100.31	0.31	0.31	0.00	100.83	0.31	0.31	0.00

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Type III 24-hr WQV Rainfall=1.00"

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Stage-Discharge for Pond SWA: Stormtech SC-740 (SWM-A) (continued)

Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)	Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)
100.84	0.31	0.31	0.00	101.36	0.31	0.31	0.00
100.85	0.31	0.31	0.00	101.37	0.31	0.31	0.00
100.86	0.31	0.31	0.00	101.38	0.31	0.31	0.00
100.87	0.31	0.31	0.00	101.39	0.31	0.31	0.00
100.88	0.31	0.31	0.00	101.40	0.31	0.31	0.00
100.89	0.31	0.31	0.00	101.41	0.31	0.31	0.00
100.90	0.31	0.31	0.00	101.42	0.31	0.31	0.00
100.91	0.31	0.31	0.00	101.43	0.31	0.31	0.00
100.92	0.31	0.31	0.00	101.44	0.31	0.31	0.00
100.93	0.31	0.31	0.00	101.45	0.31	0.31	0.00
100.94	0.31	0.31	0.00	101.46	0.31	0.31	0.00
100.95	0.31	0.31	0.00	101.47	0.31	0.31	0.00
100.96	0.31	0.31	0.00	101.48	0.31	0.31	0.00
100.97	0.31	0.31	0.00	101.49	0.31	0.31	0.00
100.98	0.31	0.31	0.00	101.50	0.31	0.31	0.00
100.99	0.31	0.31	0.00	101.51	0.31	0.31	0.00
101.00	0.31	0.31	0.00	101.52	0.31	0.31	0.00
101.01	0.31	0.31	0.00	101.53	0.31	0.31	0.00
101.02	0.31	0.31	0.00	101.54	0.31	0.31	0.00
101.03	0.31	0.31	0.00	101.55	0.31	0.31	0.00
101.04	0.31	0.31	0.00	101.56	0.31	0.31	0.00
101.05	0.31	0.31	0.00	101.57	0.31	0.31	0.00
101.06	0.31	0.31	0.00	101.58	0.31	0.31	0.00
101.07	0.31	0.31	0.00	101.59	0.31	0.31	0.00
101.08	0.31	0.31	0.00	101.60	0.31	0.31	0.00
101.09	0.31	0.31	0.00	101.61	0.31	0.31	0.00
101.10	0.31	0.31	0.00	101.62	0.31	0.31	0.00
101.11	0.31	0.31	0.00	101.63	0.31	0.31	0.00
101.12	0.31	0.31	0.00	101.64	0.31	0.31	0.00
101.13	0.31	0.31	0.00	101.65	0.31	0.31	0.00
101.14	0.31	0.31	0.00	101.66	0.31	0.31	0.00
101.15	0.31	0.31	0.00	101.67	0.31	0.31	0.00
101.16	0.31	0.31	0.00	101.68	0.31	0.31	0.00
101.17	0.31	0.31	0.00	101.69	0.31	0.31	0.00
101.18	0.31	0.31	0.00	101.70	0.31	0.31	0.00
101.19	0.31	0.31	0.00	101.71	0.31	0.31	0.00
101.20	0.31	0.31	0.00	101.72	0.31	0.31	0.00
101.21	0.31	0.31	0.00	101.73	0.31	0.31	0.00
101.22	0.31	0.31	0.00	101.74	0.31	0.31	0.00
101.23	0.31	0.31	0.00	101.75	0.31	0.31	0.00
101.24	0.31	0.31	0.00	101.76	0.31	0.31	0.00
101.25	0.31	0.31	0.00	101.77	0.31	0.31	0.00
101.26	0.31	0.31	0.00	101.78	0.31	0.31	0.00
101.27	0.31	0.31	0.00	101.79	0.31	0.31	0.00
101.28	0.31	0.31	0.00	101.80	0.31	0.31	0.00
101.29	0.31	0.31	0.00	101.81	0.31	0.31	0.00
101.30	0.31	0.31	0.00	101.82	0.31	0.31	0.00
101.31	0.31	0.31	0.00	101.83	0.31	0.31	0.00
101.32	0.31	0.31	0.00	101.84	0.31	0.31	0.00
101.33	0.31	0.31	0.00	101.85	0.31	0.31	0.00
101.34	0.31	0.31	0.00	101.86	0.31	0.31	0.00
101.35	0.31	0.31	0.00	101.87	0.31	0.31	0.00

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Stage-Discharge for Pond SWA: Stormtech SC-740 (SWM-A) (continued)

Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)	Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)
101.88	0.31	0.31	0.00	102.40	0.31	0.31	0.00
101.89	0.31	0.31	0.00	102.41	0.31	0.31	0.00
101.90	0.31	0.31	0.00	102.42	0.31	0.31	0.00
101.91	0.31	0.31	0.00	102.43	0.31	0.31	0.00
101.92	0.31	0.31	0.00	102.44	0.31	0.31	0.00
101.93	0.31	0.31	0.00	102.45	0.31	0.31	0.00
101.94	0.31	0.31	0.00	102.46	0.31	0.31	0.00
101.95	0.31	0.31	0.00	102.47	0.31	0.31	0.00
101.96	0.31	0.31	0.00	102.48	0.31	0.31	0.00
101.97	0.31	0.31	0.00	102.49	0.31	0.31	0.00
101.98	0.31	0.31	0.00	102.50	0.31	0.31	0.00
101.99	0.31	0.31	0.00	102.51	0.31	0.31	0.00
102.00	0.31	0.31	0.00	102.52	0.31	0.31	0.00
102.01	0.31	0.31	0.00	102.53	0.31	0.31	0.00
102.02	0.31	0.31	0.00	102.54	0.31	0.31	0.00
102.03	0.31	0.31	0.00	102.55	0.31	0.31	0.00
102.04	0.31	0.31	0.00	102.56	0.31	0.31	0.00
102.05	0.31	0.31	0.00	102.57	0.31	0.31	0.00
102.06	0.31	0.31	0.00	102.58	0.31	0.31	0.00
102.07	0.31	0.31	0.00	102.59	0.31	0.31	0.00
102.08	0.31	0.31	0.00	102.60	0.31	0.31	0.00
102.09	0.31	0.31	0.00	102.61	0.32	0.31	0.01
102.10	0.31	0.31	0.00	102.62	0.34	0.31	0.03
102.11	0.31	0.31	0.00	102.63	0.37	0.31	0.06
102.12	0.31	0.31	0.00	102.64	0.40	0.31	0.09
102.13	0.31	0.31	0.00	102.65	0.43	0.31	0.13
102.14	0.31	0.31	0.00	102.66	0.47	0.31	0.16
102.15	0.31	0.31	0.00	102.67	0.52	0.31	0.21
102.16	0.31	0.31	0.00	102.68	0.56	0.31	0.25
102.17	0.31	0.31	0.00	102.69	0.61	0.31	0.30
102.18	0.31	0.31	0.00	102.70	0.66	0.31	0.35
102.19	0.31	0.31	0.00	102.71	0.72	0.31	0.41
102.20	0.31	0.31	0.00	102.72	0.77	0.31	0.47
102.21	0.31	0.31	0.00	102.73	0.83	0.31	0.52
102.22	0.31	0.31	0.00	102.74	0.90	0.31	0.59
102.23	0.31	0.31	0.00	102.75	0.96	0.31	0.65
102.24	0.31	0.31	0.00	102.76	1.03	0.31	0.72
102.25	0.31	0.31	0.00	102.77	1.09	0.31	0.79
102.26	0.31	0.31	0.00	102.78	1.16	0.31	0.86
102.27	0.31	0.31	0.00	102.79	1.24	0.31	0.93
102.28	0.31	0.31	0.00	102.80	1.31	0.31	1.00
102.29	0.31	0.31	0.00	102.81	1.39	0.31	1.08
102.30	0.31	0.31	0.00	102.82	1.47	0.31	1.16
102.31	0.31	0.31	0.00	102.83	1.55	0.31	1.24
102.32	0.31	0.31	0.00	102.84	1.64	0.31	1.33
102.33	0.31	0.31	0.00	102.85	1.72	0.31	1.41
102.34	0.31	0.31	0.00	102.86	1.81	0.31	1.50
102.35	0.31	0.31	0.00	102.87	1.90	0.31	1.59
102.36	0.31	0.31	0.00	102.88	2.00	0.31	1.69
102.37	0.31	0.31	0.00	102.89	2.09	0.31	1.78
102.38	0.31	0.31	0.00	102.90	2.19	0.31	1.88
102.39	0.31	0.31	0.00	102.91	2.29	0.31	1.98

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Stage-Discharge for Pond SWA: Stormtech SC-740 (SWM-A) (continued)

Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)
102.92	2.39	0.31	2.08
102.93	2.49	0.31	2.18
102.94	2.60	0.31	2.29
102.95	2.70	0.31	2.39
102.96	2.81	0.31	2.50
102.97	2.92	0.31	2.61
102.98	3.03	0.31	2.72
102.99	3.15	0.31	2.84
103.00	3.26	0.31	2.95
103.01	3.38	0.31	3.07
103.02	3.51	0.31	3.20
103.03	3.63	0.31	3.32
103.04	3.75	0.31	3.45
103.05	3.88	0.31	3.57
103.06	4.01	0.31	3.70
103.07	4.13	0.31	3.82
103.08	4.14	0.31	3.84
103.09	4.16	0.31	3.85
103.10	4.18	0.31	3.87
103.11	4.19	0.31	3.88
103.12	4.21	0.31	3.90
103.13	4.23	0.31	3.92
103.14	4.24	0.31	3.93
103.15	4.26	0.31	3.95
103.16	4.27	0.31	3.96
103.17	4.29	0.31	3.98
103.18	4.30	0.31	4.00
103.19	4.32	0.31	4.01
103.20	4.33	0.31	4.03
103.21	4.35	0.31	4.04
103.22	4.37	0.31	4.06
103.23	4.38	0.31	4.07
103.24	4.40	0.31	4.09
103.25	4.41	0.31	4.10
103.26	4.43	0.31	4.12
103.27	4.44	0.31	4.13
103.28	4.46	0.31	4.15
103.29	4.47	0.31	4.16
103.30	4.49	0.31	4.18

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Stage-Area-Storage for Pond SWA: Stormtech SC-740 (SWM-A)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
99.80	666	0	100.32	666	144
99.81	666	3	100.33	666	149
99.82	666	5	100.34	666	154
99.83	666	8	100.35	666	159
99.84	666	11	100.36	666	165
99.85	666	13	100.37	666	170
99.86	666	16	100.38	666	175
99.87	666	19	100.39	666	180
99.88	666	21	100.40	666	185
99.89	666	24	100.41	666	191
99.90	666	27	100.42	666	196
99.91	666	29	100.43	666	201
99.92	666	32	100.44	666	206
99.93	666	35	100.45	666	211
99.94	666	37	100.46	666	216
99.95	666	40	100.47	666	222
99.96	666	43	100.48	666	227
99.97	666	45	100.49	666	232
99.98	666	48	100.50	666	237
99.99	666	51	100.51	666	242
100.00	666	53	100.52	666	248
100.01	666	56	100.53	666	253
100.02	666	59	100.54	666	258
100.03	666	61	100.55	666	263
100.04	666	64	100.56	666	268
100.05	666	67	100.57	666	273
100.06	666	69	100.58	666	279
100.07	666	72	100.59	666	284
100.08	666	75	100.60	666	289
100.09	666	77	100.61	666	294
100.10	666	80	100.62	666	299
100.11	666	83	100.63	666	304
100.12	666	85	100.64	666	309
100.13	666	88	100.65	666	315
100.14	666	91	100.66	666	320
100.15	666	93	100.67	666	325
100.16	666	96	100.68	666	330
100.17	666	99	100.69	666	335
100.18	666	101	100.70	666	340
100.19	666	104	100.71	666	345
100.20	666	107	100.72	666	350
100.21	666	109	100.73	666	355
100.22	666	112	100.74	666	361
100.23	666	115	100.75	666	366
100.24	666	117	100.76	666	371
100.25	666	120	100.77	666	376
100.26	666	123	100.78	666	381
100.27	666	125	100.79	666	386
100.28	666	128	100.80	666	391
100.29	666	131	100.81	666	396
100.30	666	133	100.82	666	401
100.31	666	138	100.83	666	406

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Stage-Area-Storage for Pond SWA: Stormtech SC-740 (SWM-A) (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
100.84	666	411	101.36	666	668
100.85	666	416	101.37	666	672
100.86	666	421	101.38	666	677
100.87	666	426	101.39	666	682
100.88	666	431	101.40	666	687
100.89	666	437	101.41	666	692
100.90	666	442	101.42	666	696
100.91	666	447	101.43	666	701
100.92	666	452	101.44	666	706
100.93	666	457	101.45	666	710
100.94	666	462	101.46	666	715
100.95	666	467	101.47	666	720
100.96	666	472	101.48	666	725
100.97	666	477	101.49	666	729
100.98	666	482	101.50	666	734
100.99	666	487	101.51	666	739
101.00	666	492	101.52	666	743
101.01	666	497	101.53	666	748
101.02	666	502	101.54	666	753
101.03	666	507	101.55	666	757
101.04	666	512	101.56	666	762
101.05	666	516	101.57	666	767
101.06	666	521	101.58	666	771
101.07	666	526	101.59	666	776
101.08	666	531	101.60	666	781
101.09	666	536	101.61	666	785
101.10	666	541	101.62	666	790
101.11	666	546	101.63	666	794
101.12	666	551	101.64	666	799
101.13	666	556	101.65	666	804
101.14	666	561	101.66	666	808
101.15	666	566	101.67	666	813
101.16	666	571	101.68	666	817
101.17	666	576	101.69	666	822
101.18	666	581	101.70	666	826
101.19	666	585	101.71	666	831
101.20	666	590	101.72	666	835
101.21	666	595	101.73	666	840
101.22	666	600	101.74	666	844
101.23	666	605	101.75	666	849
101.24	666	610	101.76	666	853
101.25	666	615	101.77	666	858
101.26	666	619	101.78	666	862
101.27	666	624	101.79	666	867
101.28	666	629	101.80	666	871
101.29	666	634	101.81	666	876
101.30	666	639	101.82	666	880
101.31	666	644	101.83	666	885
101.32	666	648	101.84	666	889
101.33	666	653	101.85	666	893
101.34	666	658	101.86	666	898
101.35	666	663	101.87	666	902

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Stage-Area-Storage for Pond SWA: Stormtech SC-740 (SWM-A) (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
101.88	666	907	102.40	666	1,117
101.89	666	911	102.41	666	1,121
101.90	666	915	102.42	666	1,124
101.91	666	920	102.43	666	1,128
101.92	666	924	102.44	666	1,132
101.93	666	928	102.45	666	1,135
101.94	666	933	102.46	666	1,139
101.95	666	937	102.47	666	1,142
101.96	666	941	102.48	666	1,146
101.97	666	946	102.49	666	1,149
101.98	666	950	102.50	666	1,152
101.99	666	954	102.51	666	1,156
102.00	666	958	102.52	666	1,159
102.01	666	963	102.53	666	1,162
102.02	666	967	102.54	666	1,165
102.03	666	971	102.55	666	1,169
102.04	666	975	102.56	666	1,172
102.05	666	979	102.57	666	1,175
102.06	666	984	102.58	666	1,178
102.07	666	988	102.59	666	1,181
102.08	666	992	102.60	666	1,184
102.09	666	996	102.61	666	1,187
102.10	666	1,000	102.62	666	1,190
102.11	666	1,004	102.63	666	1,193
102.12	666	1,008	102.64	666	1,196
102.13	666	1,012	102.65	666	1,199
102.14	666	1,016	102.66	666	1,202
102.15	666	1,021	102.67	666	1,205
102.16	666	1,025	102.68	666	1,208
102.17	666	1,029	102.69	666	1,210
102.18	666	1,033	102.70	666	1,213
102.19	666	1,037	102.71	666	1,216
102.20	666	1,041	102.72	666	1,219
102.21	666	1,045	102.73	666	1,222
102.22	666	1,049	102.74	666	1,224
102.23	666	1,053	102.75	666	1,227
102.24	666	1,056	102.76	666	1,230
102.25	666	1,060	102.77	666	1,233
102.26	666	1,064	102.78	666	1,235
102.27	666	1,068	102.79	666	1,238
102.28	666	1,072	102.80	666	1,241
102.29	666	1,076	102.81	666	1,243
102.30	666	1,080	102.82	666	1,246
102.31	666	1,084	102.83	666	1,249
102.32	666	1,087	102.84	666	1,251
102.33	666	1,091	102.85	666	1,254
102.34	666	1,095	102.86	666	1,257
102.35	666	1,099	102.87	666	1,259
102.36	666	1,102	102.88	666	1,262
102.37	666	1,106	102.89	666	1,265
102.38	666	1,110	102.90	666	1,267
102.39	666	1,114	102.91	666	1,270

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Stage-Area-Storage for Pond SWA: Stormtech SC-740 (SWM-A) (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
102.92	666	1,273
102.93	666	1,275
102.94	666	1,278
102.95	666	1,281
102.96	666	1,283
102.97	666	1,286
102.98	666	1,289
102.99	666	1,291
103.00	666	1,294
103.01	666	1,297
103.02	666	1,299
103.03	666	1,302
103.04	666	1,305
103.05	666	1,307
103.06	666	1,310
103.07	666	1,313
103.08	666	1,315
103.09	666	1,318
103.10	666	1,321
103.11	666	1,323
103.12	666	1,326
103.13	666	1,329
103.14	666	1,331
103.15	666	1,334
103.16	666	1,337
103.17	666	1,339
103.18	666	1,342
103.19	666	1,345
103.20	666	1,347
103.21	666	1,350
103.22	666	1,353
103.23	666	1,355
103.24	666	1,358
103.25	666	1,361
103.26	666	1,363
103.27	666	1,366
103.28	666	1,369
103.29	666	1,371
103.30	666	1,374

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Summary for Pond SWB: Stormtech SC-740 (SWM-B)

Inflow Area = 22,535 sf, 89.57% Impervious, Inflow Depth = 0.40" for WQV event
 Inflow = 0.25 cfs @ 12.08 hrs, Volume= 756 cf
 Outflow = 0.25 cfs @ 12.09 hrs, Volume= 756 cf, Atten= 1%, Lag= 0.5 min
 Discarded = 0.25 cfs @ 12.09 hrs, Volume= 756 cf
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
 Routed to Link 1L : DA3 Discharge

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
 Peak Elev= 99.81' @ 12.09 hrs Surf.Area= 1,610 sf Storage= 7 cf

Plug-Flow detention time= 0.5 min calculated for 756 cf (100% of inflow)
 Center-of-Mass det. time= 0.5 min (848.0 - 847.5)

Volume	Invert	Avail.Storage	Storage Description
#1A	99.80'	1,482 cf	34.75'W x 46.34'L x 3.50'H Field A 5,636 cf Overall - 1,929 cf Embedded = 3,706 cf x 40.0% Voids
#2A	100.30'	1,929 cf	ADS_StormTech SC-740 +Cap x 42 Inside #1 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap 42 Chambers in 7 Rows
		3,412 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Primary	101.30'	12.0" Round Outlet Pipe L= 63.0' CPP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 101.30' / 100.90' S= 0.0063 '/ Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf
#2	Device 1	102.60'	4.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#3	Discarded	99.80'	20.000 in/hr Exfiltration over Surface area

Discarded OutFlow Max=0.75 cfs @ 12.09 hrs HW=99.81' (Free Discharge)
 ↑**3=Exfiltration** (Exfiltration Controls 0.75 cfs)

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=99.80' (Free Discharge)
 ↑**1=Outlet Pipe** (Controls 0.00 cfs)
 ↑**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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Pond SWB: Stormtech SC-740 (SWM-B) - Chamber Wizard Field A

Chamber Model = ADS_StormTech SC-740 +Cap (ADS StormTech® SC-740 with cap length)

Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf

Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap

51.0" Wide + 6.0" Spacing = 57.0" C-C Row Spacing

6 Chambers/Row x 7.12' Long +0.81' Cap Length x 2 = 44.34' Row Length +12.0" End Stone x 2 = 46.34' Base Length

7 Rows x 51.0" Wide + 6.0" Spacing x 6 + 12.0" Side Stone x 2 = 34.75' Base Width

6.0" Stone Base + 30.0" Chamber Height + 6.0" Stone Cover = 3.50' Field Height

42 Chambers x 45.9 cf = 1,929.5 cf Chamber Storage

5,635.7 cf Field - 1,929.5 cf Chambers = 3,706.2 cf Stone x 40.0% Voids = 1,482.5 cf Stone Storage

Chamber Storage + Stone Storage = 3,412.0 cf = 0.078 af

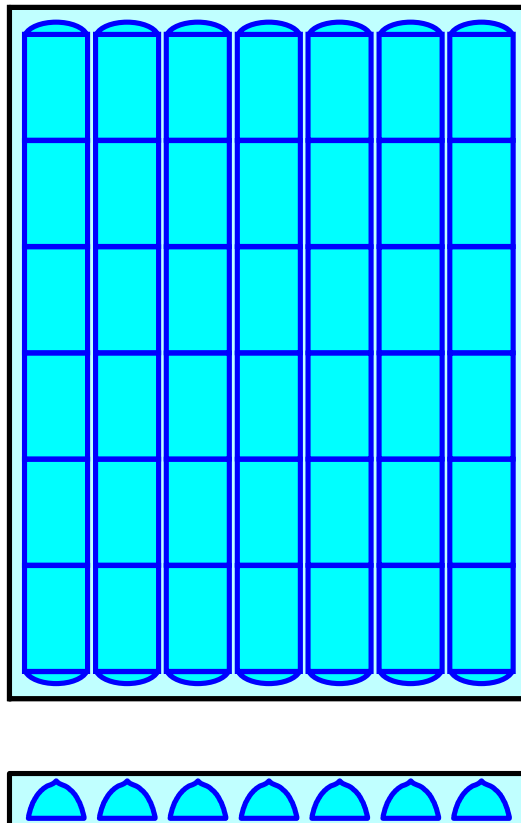
Overall Storage Efficiency = 60.5%

Overall System Size = 46.34' x 34.75' x 3.50'

42 Chambers

208.7 cy Field

137.3 cy Stone



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Stage-Discharge for Pond SWB: Stormtech SC-740 (SWM-B)

Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)	Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)
99.80	0.00	0.00	0.00	100.32	0.75	0.75	0.00
99.81	0.75	0.75	0.00	100.33	0.75	0.75	0.00
99.82	0.75	0.75	0.00	100.34	0.75	0.75	0.00
99.83	0.75	0.75	0.00	100.35	0.75	0.75	0.00
99.84	0.75	0.75	0.00	100.36	0.75	0.75	0.00
99.85	0.75	0.75	0.00	100.37	0.75	0.75	0.00
99.86	0.75	0.75	0.00	100.38	0.75	0.75	0.00
99.87	0.75	0.75	0.00	100.39	0.75	0.75	0.00
99.88	0.75	0.75	0.00	100.40	0.75	0.75	0.00
99.89	0.75	0.75	0.00	100.41	0.75	0.75	0.00
99.90	0.75	0.75	0.00	100.42	0.75	0.75	0.00
99.91	0.75	0.75	0.00	100.43	0.75	0.75	0.00
99.92	0.75	0.75	0.00	100.44	0.75	0.75	0.00
99.93	0.75	0.75	0.00	100.45	0.75	0.75	0.00
99.94	0.75	0.75	0.00	100.46	0.75	0.75	0.00
99.95	0.75	0.75	0.00	100.47	0.75	0.75	0.00
99.96	0.75	0.75	0.00	100.48	0.75	0.75	0.00
99.97	0.75	0.75	0.00	100.49	0.75	0.75	0.00
99.98	0.75	0.75	0.00	100.50	0.75	0.75	0.00
99.99	0.75	0.75	0.00	100.51	0.75	0.75	0.00
100.00	0.75	0.75	0.00	100.52	0.75	0.75	0.00
100.01	0.75	0.75	0.00	100.53	0.75	0.75	0.00
100.02	0.75	0.75	0.00	100.54	0.75	0.75	0.00
100.03	0.75	0.75	0.00	100.55	0.75	0.75	0.00
100.04	0.75	0.75	0.00	100.56	0.75	0.75	0.00
100.05	0.75	0.75	0.00	100.57	0.75	0.75	0.00
100.06	0.75	0.75	0.00	100.58	0.75	0.75	0.00
100.07	0.75	0.75	0.00	100.59	0.75	0.75	0.00
100.08	0.75	0.75	0.00	100.60	0.75	0.75	0.00
100.09	0.75	0.75	0.00	100.61	0.75	0.75	0.00
100.10	0.75	0.75	0.00	100.62	0.75	0.75	0.00
100.11	0.75	0.75	0.00	100.63	0.75	0.75	0.00
100.12	0.75	0.75	0.00	100.64	0.75	0.75	0.00
100.13	0.75	0.75	0.00	100.65	0.75	0.75	0.00
100.14	0.75	0.75	0.00	100.66	0.75	0.75	0.00
100.15	0.75	0.75	0.00	100.67	0.75	0.75	0.00
100.16	0.75	0.75	0.00	100.68	0.75	0.75	0.00
100.17	0.75	0.75	0.00	100.69	0.75	0.75	0.00
100.18	0.75	0.75	0.00	100.70	0.75	0.75	0.00
100.19	0.75	0.75	0.00	100.71	0.75	0.75	0.00
100.20	0.75	0.75	0.00	100.72	0.75	0.75	0.00
100.21	0.75	0.75	0.00	100.73	0.75	0.75	0.00
100.22	0.75	0.75	0.00	100.74	0.75	0.75	0.00
100.23	0.75	0.75	0.00	100.75	0.75	0.75	0.00
100.24	0.75	0.75	0.00	100.76	0.75	0.75	0.00
100.25	0.75	0.75	0.00	100.77	0.75	0.75	0.00
100.26	0.75	0.75	0.00	100.78	0.75	0.75	0.00
100.27	0.75	0.75	0.00	100.79	0.75	0.75	0.00
100.28	0.75	0.75	0.00	100.80	0.75	0.75	0.00
100.29	0.75	0.75	0.00	100.81	0.75	0.75	0.00
100.30	0.75	0.75	0.00	100.82	0.75	0.75	0.00
100.31	0.75	0.75	0.00	100.83	0.75	0.75	0.00

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Stage-Discharge for Pond SWB: Stormtech SC-740 (SWM-B) (continued)

Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)	Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)
100.84	0.75	0.75	0.00	101.36	0.75	0.75	0.00
100.85	0.75	0.75	0.00	101.37	0.75	0.75	0.00
100.86	0.75	0.75	0.00	101.38	0.75	0.75	0.00
100.87	0.75	0.75	0.00	101.39	0.75	0.75	0.00
100.88	0.75	0.75	0.00	101.40	0.75	0.75	0.00
100.89	0.75	0.75	0.00	101.41	0.75	0.75	0.00
100.90	0.75	0.75	0.00	101.42	0.75	0.75	0.00
100.91	0.75	0.75	0.00	101.43	0.75	0.75	0.00
100.92	0.75	0.75	0.00	101.44	0.75	0.75	0.00
100.93	0.75	0.75	0.00	101.45	0.75	0.75	0.00
100.94	0.75	0.75	0.00	101.46	0.75	0.75	0.00
100.95	0.75	0.75	0.00	101.47	0.75	0.75	0.00
100.96	0.75	0.75	0.00	101.48	0.75	0.75	0.00
100.97	0.75	0.75	0.00	101.49	0.75	0.75	0.00
100.98	0.75	0.75	0.00	101.50	0.75	0.75	0.00
100.99	0.75	0.75	0.00	101.51	0.75	0.75	0.00
101.00	0.75	0.75	0.00	101.52	0.75	0.75	0.00
101.01	0.75	0.75	0.00	101.53	0.75	0.75	0.00
101.02	0.75	0.75	0.00	101.54	0.75	0.75	0.00
101.03	0.75	0.75	0.00	101.55	0.75	0.75	0.00
101.04	0.75	0.75	0.00	101.56	0.75	0.75	0.00
101.05	0.75	0.75	0.00	101.57	0.75	0.75	0.00
101.06	0.75	0.75	0.00	101.58	0.75	0.75	0.00
101.07	0.75	0.75	0.00	101.59	0.75	0.75	0.00
101.08	0.75	0.75	0.00	101.60	0.75	0.75	0.00
101.09	0.75	0.75	0.00	101.61	0.75	0.75	0.00
101.10	0.75	0.75	0.00	101.62	0.75	0.75	0.00
101.11	0.75	0.75	0.00	101.63	0.75	0.75	0.00
101.12	0.75	0.75	0.00	101.64	0.75	0.75	0.00
101.13	0.75	0.75	0.00	101.65	0.75	0.75	0.00
101.14	0.75	0.75	0.00	101.66	0.75	0.75	0.00
101.15	0.75	0.75	0.00	101.67	0.75	0.75	0.00
101.16	0.75	0.75	0.00	101.68	0.75	0.75	0.00
101.17	0.75	0.75	0.00	101.69	0.75	0.75	0.00
101.18	0.75	0.75	0.00	101.70	0.75	0.75	0.00
101.19	0.75	0.75	0.00	101.71	0.75	0.75	0.00
101.20	0.75	0.75	0.00	101.72	0.75	0.75	0.00
101.21	0.75	0.75	0.00	101.73	0.75	0.75	0.00
101.22	0.75	0.75	0.00	101.74	0.75	0.75	0.00
101.23	0.75	0.75	0.00	101.75	0.75	0.75	0.00
101.24	0.75	0.75	0.00	101.76	0.75	0.75	0.00
101.25	0.75	0.75	0.00	101.77	0.75	0.75	0.00
101.26	0.75	0.75	0.00	101.78	0.75	0.75	0.00
101.27	0.75	0.75	0.00	101.79	0.75	0.75	0.00
101.28	0.75	0.75	0.00	101.80	0.75	0.75	0.00
101.29	0.75	0.75	0.00	101.81	0.75	0.75	0.00
101.30	0.75	0.75	0.00	101.82	0.75	0.75	0.00
101.31	0.75	0.75	0.00	101.83	0.75	0.75	0.00
101.32	0.75	0.75	0.00	101.84	0.75	0.75	0.00
101.33	0.75	0.75	0.00	101.85	0.75	0.75	0.00
101.34	0.75	0.75	0.00	101.86	0.75	0.75	0.00
101.35	0.75	0.75	0.00	101.87	0.75	0.75	0.00

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Stage-Discharge for Pond SWB: Stormtech SC-740 (SWM-B) (continued)

Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)	Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)
101.88	0.75	0.75	0.00	102.40	0.75	0.75	0.00
101.89	0.75	0.75	0.00	102.41	0.75	0.75	0.00
101.90	0.75	0.75	0.00	102.42	0.75	0.75	0.00
101.91	0.75	0.75	0.00	102.43	0.75	0.75	0.00
101.92	0.75	0.75	0.00	102.44	0.75	0.75	0.00
101.93	0.75	0.75	0.00	102.45	0.75	0.75	0.00
101.94	0.75	0.75	0.00	102.46	0.75	0.75	0.00
101.95	0.75	0.75	0.00	102.47	0.75	0.75	0.00
101.96	0.75	0.75	0.00	102.48	0.75	0.75	0.00
101.97	0.75	0.75	0.00	102.49	0.75	0.75	0.00
101.98	0.75	0.75	0.00	102.50	0.75	0.75	0.00
101.99	0.75	0.75	0.00	102.51	0.75	0.75	0.00
102.00	0.75	0.75	0.00	102.52	0.75	0.75	0.00
102.01	0.75	0.75	0.00	102.53	0.75	0.75	0.00
102.02	0.75	0.75	0.00	102.54	0.75	0.75	0.00
102.03	0.75	0.75	0.00	102.55	0.75	0.75	0.00
102.04	0.75	0.75	0.00	102.56	0.75	0.75	0.00
102.05	0.75	0.75	0.00	102.57	0.75	0.75	0.00
102.06	0.75	0.75	0.00	102.58	0.75	0.75	0.00
102.07	0.75	0.75	0.00	102.59	0.75	0.75	0.00
102.08	0.75	0.75	0.00	102.60	0.75	0.75	0.00
102.09	0.75	0.75	0.00	102.61	0.76	0.75	0.01
102.10	0.75	0.75	0.00	102.62	0.78	0.75	0.03
102.11	0.75	0.75	0.00	102.63	0.80	0.75	0.06
102.12	0.75	0.75	0.00	102.64	0.84	0.75	0.09
102.13	0.75	0.75	0.00	102.65	0.87	0.75	0.13
102.14	0.75	0.75	0.00	102.66	0.91	0.75	0.16
102.15	0.75	0.75	0.00	102.67	0.95	0.75	0.21
102.16	0.75	0.75	0.00	102.68	1.00	0.75	0.25
102.17	0.75	0.75	0.00	102.69	1.05	0.75	0.30
102.18	0.75	0.75	0.00	102.70	1.10	0.75	0.35
102.19	0.75	0.75	0.00	102.71	1.15	0.75	0.41
102.20	0.75	0.75	0.00	102.72	1.21	0.75	0.47
102.21	0.75	0.75	0.00	102.73	1.27	0.75	0.52
102.22	0.75	0.75	0.00	102.74	1.33	0.75	0.59
102.23	0.75	0.75	0.00	102.75	1.40	0.75	0.65
102.24	0.75	0.75	0.00	102.76	1.46	0.75	0.72
102.25	0.75	0.75	0.00	102.77	1.53	0.75	0.79
102.26	0.75	0.75	0.00	102.78	1.60	0.75	0.86
102.27	0.75	0.75	0.00	102.79	1.67	0.75	0.93
102.28	0.75	0.75	0.00	102.80	1.75	0.75	1.00
102.29	0.75	0.75	0.00	102.81	1.83	0.75	1.08
102.30	0.75	0.75	0.00	102.82	1.91	0.75	1.16
102.31	0.75	0.75	0.00	102.83	1.99	0.75	1.24
102.32	0.75	0.75	0.00	102.84	2.07	0.75	1.33
102.33	0.75	0.75	0.00	102.85	2.16	0.75	1.41
102.34	0.75	0.75	0.00	102.86	2.25	0.75	1.50
102.35	0.75	0.75	0.00	102.87	2.34	0.75	1.59
102.36	0.75	0.75	0.00	102.88	2.43	0.75	1.69
102.37	0.75	0.75	0.00	102.89	2.53	0.75	1.78
102.38	0.75	0.75	0.00	102.90	2.63	0.75	1.88
102.39	0.75	0.75	0.00	102.91	2.72	0.75	1.98

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Stage-Discharge for Pond SWB: Stormtech SC-740 (SWM-B) (continued)

Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)
102.92	2.83	0.75	2.08
102.93	2.93	0.75	2.18
102.94	3.03	0.75	2.29
102.95	3.14	0.75	2.39
102.96	3.25	0.75	2.50
102.97	3.36	0.75	2.61
102.98	3.47	0.75	2.72
102.99	3.58	0.75	2.84
103.00	3.70	0.75	2.95
103.01	3.82	0.75	3.07
103.02	3.94	0.75	3.20
103.03	4.07	0.75	3.32
103.04	4.19	0.75	3.45
103.05	4.32	0.75	3.57
103.06	4.45	0.75	3.70
103.07	4.57	0.75	3.82
103.08	4.58	0.75	3.84
103.09	4.60	0.75	3.85
103.10	4.61	0.75	3.87
103.11	4.63	0.75	3.88
103.12	4.65	0.75	3.90
103.13	4.66	0.75	3.92
103.14	4.68	0.75	3.93
103.15	4.69	0.75	3.95
103.16	4.71	0.75	3.96
103.17	4.73	0.75	3.98
103.18	4.74	0.75	4.00
103.19	4.76	0.75	4.01
103.20	4.77	0.75	4.03
103.21	4.79	0.75	4.04
103.22	4.80	0.75	4.06
103.23	4.82	0.75	4.07
103.24	4.83	0.75	4.09
103.25	4.85	0.75	4.10
103.26	4.86	0.75	4.12
103.27	4.88	0.75	4.13
103.28	4.89	0.75	4.15
103.29	4.91	0.75	4.16
103.30	4.92	0.75	4.18

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Stage-Area-Storage for Pond SWB: Stormtech SC-740 (SWM-B)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
99.80	1,610	0	100.32	1,610	348
99.81	1,610	6	100.33	1,610	361
99.82	1,610	13	100.34	1,610	374
99.83	1,610	19	100.35	1,610	388
99.84	1,610	26	100.36	1,610	401
99.85	1,610	32	100.37	1,610	414
99.86	1,610	39	100.38	1,610	427
99.87	1,610	45	100.39	1,610	440
99.88	1,610	52	100.40	1,610	453
99.89	1,610	58	100.41	1,610	466
99.90	1,610	64	100.42	1,610	479
99.91	1,610	71	100.43	1,610	492
99.92	1,610	77	100.44	1,610	505
99.93	1,610	84	100.45	1,610	519
99.94	1,610	90	100.46	1,610	532
99.95	1,610	97	100.47	1,610	545
99.96	1,610	103	100.48	1,610	558
99.97	1,610	109	100.49	1,610	571
99.98	1,610	116	100.50	1,610	584
99.99	1,610	122	100.51	1,610	597
100.00	1,610	129	100.52	1,610	610
100.01	1,610	135	100.53	1,610	623
100.02	1,610	142	100.54	1,610	636
100.03	1,610	148	100.55	1,610	649
100.04	1,610	155	100.56	1,610	662
100.05	1,610	161	100.57	1,610	675
100.06	1,610	167	100.58	1,610	688
100.07	1,610	174	100.59	1,610	701
100.08	1,610	180	100.60	1,610	714
100.09	1,610	187	100.61	1,610	727
100.10	1,610	193	100.62	1,610	740
100.11	1,610	200	100.63	1,610	753
100.12	1,610	206	100.64	1,610	765
100.13	1,610	213	100.65	1,610	778
100.14	1,610	219	100.66	1,610	791
100.15	1,610	225	100.67	1,610	804
100.16	1,610	232	100.68	1,610	817
100.17	1,610	238	100.69	1,610	830
100.18	1,610	245	100.70	1,610	843
100.19	1,610	251	100.71	1,610	856
100.20	1,610	258	100.72	1,610	869
100.21	1,610	264	100.73	1,610	881
100.22	1,610	271	100.74	1,610	894
100.23	1,610	277	100.75	1,610	907
100.24	1,610	283	100.76	1,610	920
100.25	1,610	290	100.77	1,610	933
100.26	1,610	296	100.78	1,610	945
100.27	1,610	303	100.79	1,610	958
100.28	1,610	309	100.80	1,610	971
100.29	1,610	316	100.81	1,610	984
100.30	1,610	322	100.82	1,610	996
100.31	1,610	335	100.83	1,610	1,009

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Stage-Area-Storage for Pond SWB: Stormtech SC-740 (SWM-B) (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
100.84	1,610	1,022	101.36	1,610	1,666
100.85	1,610	1,035	101.37	1,610	1,678
100.86	1,610	1,047	101.38	1,610	1,690
100.87	1,610	1,060	101.39	1,610	1,702
100.88	1,610	1,073	101.40	1,610	1,714
100.89	1,610	1,085	101.41	1,610	1,726
100.90	1,610	1,098	101.42	1,610	1,738
100.91	1,610	1,111	101.43	1,610	1,750
100.92	1,610	1,123	101.44	1,610	1,761
100.93	1,610	1,136	101.45	1,610	1,773
100.94	1,610	1,148	101.46	1,610	1,785
100.95	1,610	1,161	101.47	1,610	1,797
100.96	1,610	1,174	101.48	1,610	1,809
100.97	1,610	1,186	101.49	1,610	1,821
100.98	1,610	1,199	101.50	1,610	1,832
100.99	1,610	1,211	101.51	1,610	1,844
101.00	1,610	1,224	101.52	1,610	1,856
101.01	1,610	1,236	101.53	1,610	1,867
101.02	1,610	1,249	101.54	1,610	1,879
101.03	1,610	1,261	101.55	1,610	1,891
101.04	1,610	1,274	101.56	1,610	1,902
101.05	1,610	1,286	101.57	1,610	1,914
101.06	1,610	1,299	101.58	1,610	1,926
101.07	1,610	1,311	101.59	1,610	1,937
101.08	1,610	1,324	101.60	1,610	1,949
101.09	1,610	1,336	101.61	1,610	1,960
101.10	1,610	1,348	101.62	1,610	1,972
101.11	1,610	1,361	101.63	1,610	1,983
101.12	1,610	1,373	101.64	1,610	1,995
101.13	1,610	1,386	101.65	1,610	2,006
101.14	1,610	1,398	101.66	1,610	2,018
101.15	1,610	1,410	101.67	1,610	2,029
101.16	1,610	1,423	101.68	1,610	2,041
101.17	1,610	1,435	101.69	1,610	2,052
101.18	1,610	1,447	101.70	1,610	2,064
101.19	1,610	1,459	101.71	1,610	2,075
101.20	1,610	1,472	101.72	1,610	2,086
101.21	1,610	1,484	101.73	1,610	2,097
101.22	1,610	1,496	101.74	1,610	2,109
101.23	1,610	1,508	101.75	1,610	2,120
101.24	1,610	1,521	101.76	1,610	2,131
101.25	1,610	1,533	101.77	1,610	2,142
101.26	1,610	1,545	101.78	1,610	2,154
101.27	1,610	1,557	101.79	1,610	2,165
101.28	1,610	1,569	101.80	1,610	2,176
101.29	1,610	1,581	101.81	1,610	2,187
101.30	1,610	1,594	101.82	1,610	2,198
101.31	1,610	1,606	101.83	1,610	2,209
101.32	1,610	1,618	101.84	1,610	2,220
101.33	1,610	1,630	101.85	1,610	2,231
101.34	1,610	1,642	101.86	1,610	2,242
101.35	1,610	1,654	101.87	1,610	2,253

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Stage-Area-Storage for Pond SWB: Stormtech SC-740 (SWM-B) (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
101.88	1,610	2,264	102.40	1,610	2,788
101.89	1,610	2,275	102.41	1,610	2,797
101.90	1,610	2,286	102.42	1,610	2,806
101.91	1,610	2,297	102.43	1,610	2,815
101.92	1,610	2,308	102.44	1,610	2,824
101.93	1,610	2,319	102.45	1,610	2,832
101.94	1,610	2,329	102.46	1,610	2,841
101.95	1,610	2,340	102.47	1,610	2,850
101.96	1,610	2,351	102.48	1,610	2,858
101.97	1,610	2,362	102.49	1,610	2,866
101.98	1,610	2,372	102.50	1,610	2,875
101.99	1,610	2,383	102.51	1,610	2,883
102.00	1,610	2,393	102.52	1,610	2,891
102.01	1,610	2,404	102.53	1,610	2,899
102.02	1,610	2,415	102.54	1,610	2,907
102.03	1,610	2,425	102.55	1,610	2,915
102.04	1,610	2,435	102.56	1,610	2,923
102.05	1,610	2,446	102.57	1,610	2,930
102.06	1,610	2,456	102.58	1,610	2,938
102.07	1,610	2,467	102.59	1,610	2,945
102.08	1,610	2,477	102.60	1,610	2,953
102.09	1,610	2,487	102.61	1,610	2,960
102.10	1,610	2,498	102.62	1,610	2,967
102.11	1,610	2,508	102.63	1,610	2,975
102.12	1,610	2,518	102.64	1,610	2,982
102.13	1,610	2,528	102.65	1,610	2,989
102.14	1,610	2,538	102.66	1,610	2,996
102.15	1,610	2,548	102.67	1,610	3,003
102.16	1,610	2,558	102.68	1,610	3,010
102.17	1,610	2,568	102.69	1,610	3,017
102.18	1,610	2,578	102.70	1,610	3,023
102.19	1,610	2,588	102.71	1,610	3,030
102.20	1,610	2,598	102.72	1,610	3,037
102.21	1,610	2,608	102.73	1,610	3,044
102.22	1,610	2,618	102.74	1,610	3,051
102.23	1,610	2,628	102.75	1,610	3,057
102.24	1,610	2,638	102.76	1,610	3,064
102.25	1,610	2,647	102.77	1,610	3,070
102.26	1,610	2,657	102.78	1,610	3,077
102.27	1,610	2,667	102.79	1,610	3,083
102.28	1,610	2,676	102.80	1,610	3,090
102.29	1,610	2,686	102.81	1,610	3,096
102.30	1,610	2,695	102.82	1,610	3,103
102.31	1,610	2,705	102.83	1,610	3,109
102.32	1,610	2,714	102.84	1,610	3,116
102.33	1,610	2,724	102.85	1,610	3,122
102.34	1,610	2,733	102.86	1,610	3,129
102.35	1,610	2,742	102.87	1,610	3,135
102.36	1,610	2,752	102.88	1,610	3,141
102.37	1,610	2,761	102.89	1,610	3,148
102.38	1,610	2,770	102.90	1,610	3,154
102.39	1,610	2,779	102.91	1,610	3,161

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Type III 24-hr WQV Rainfall=1.00"

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Stage-Area-Storage for Pond SWB: Stormtech SC-740 (SWM-B) (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
102.92	1,610	3,167
102.93	1,610	3,174
102.94	1,610	3,180
102.95	1,610	3,187
102.96	1,610	3,193
102.97	1,610	3,199
102.98	1,610	3,206
102.99	1,610	3,212
103.00	1,610	3,219
103.01	1,610	3,225
103.02	1,610	3,232
103.03	1,610	3,238
103.04	1,610	3,245
103.05	1,610	3,251
103.06	1,610	3,257
103.07	1,610	3,264
103.08	1,610	3,270
103.09	1,610	3,277
103.10	1,610	3,283
103.11	1,610	3,290
103.12	1,610	3,296
103.13	1,610	3,302
103.14	1,610	3,309
103.15	1,610	3,315
103.16	1,610	3,322
103.17	1,610	3,328
103.18	1,610	3,335
103.19	1,610	3,341
103.20	1,610	3,348
103.21	1,610	3,354
103.22	1,610	3,360
103.23	1,610	3,367
103.24	1,610	3,373
103.25	1,610	3,380
103.26	1,610	3,386
103.27	1,610	3,393
103.28	1,610	3,399
103.29	1,610	3,406
103.30	1,610	3,412

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Type III 24-hr WQV Rainfall=1.00"

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Summary for Link 1L: DA3 Discharge

Inflow Area = 34,600 sf, 89.89% Impervious, Inflow Depth = 0.01" for WQV event
Inflow = 0.00 cfs @ 12.38 hrs, Volume= 17 cf
Primary = 0.00 cfs @ 12.38 hrs, Volume= 17 cf, Atten= 0%, Lag= 0.0 min
Routed to Link TSD : Total Site Discharge

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

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Type III 24-hr WQV Rainfall=1.00"

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Summary for Link TSD: Total Site Discharge

Inflow Area = 45,484 sf, 72.47% Impervious, Inflow Depth = 0.00" for WQV event
Inflow = 0.00 cfs @ 12.38 hrs, Volume= 17 cf
Primary = 0.00 cfs @ 12.38 hrs, Volume= 17 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

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Type III 24-hr 2-Year Rainfall=3.11"

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Time span=0.00-72.00 hrs, dt=0.02 hrs, 3601 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind method - Pond routing by Stor-Ind method

Subcatchment DA1: DA1 Runoff Area=8,173 sf 22.75% Impervious Runoff Depth=0.15"
Tc=5.0 min CN=52 Runoff=0.01 cfs 104 cf

Subcatchment DA2: DA2 Runoff Area=2,711 sf 0.00% Impervious Runoff Depth=0.00"
Tc=5.0 min CN=39 Runoff=0.00 cfs 0 cf

Subcatchment DA3A: DA3A Runoff Area=8,592 sf 100.00% Impervious Runoff Depth=2.88"
Tc=5.0 min CN=98 Runoff=0.61 cfs 2,061 cf

Subcatchment DA3B: DA3B Runoff Area=22,535 sf 89.57% Impervious Runoff Depth=2.27"
Tc=5.0 min CN=92 Runoff=1.39 cfs 4,254 cf

Subcatchment DA3C: DA3C Runoff Area=3,473 sf 66.95% Impervious Runoff Depth=1.21"
Tc=5.0 min CN=78 Runoff=0.11 cfs 350 cf

Pond SWA: Stormtech SC-740 (SWM-A) Peak Elev=100.32' Storage=145 cf Inflow=0.61 cfs 2,061 cf
Discarded=0.31 cfs 2,061 cf Primary=0.00 cfs 0 cf Outflow=0.31 cfs 2,061 cf

Pond SWB: Stormtech SC-740 (SWM-B) Peak Elev=100.25' Storage=291 cf Inflow=1.39 cfs 4,254 cf
Discarded=0.75 cfs 4,254 cf Primary=0.00 cfs 0 cf Outflow=0.75 cfs 4,254 cf

Link 1L: DA3 Discharge Inflow=0.11 cfs 350 cf
Primary=0.11 cfs 350 cf

Link TSD: Total Site Discharge Inflow=0.11 cfs 453 cf
Primary=0.11 cfs 453 cf

Total Runoff Area = 45,484 sf Runoff Volume = 6,768 cf Average Runoff Depth = 1.79"
27.53% Pervious = 12,523 sf 72.47% Impervious = 32,961 sf

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Type III 24-hr 2-Year Rainfall=3.11"

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Summary for Subcatchment DA1: DA1

Runoff = 0.01 cfs @ 12.41 hrs, Volume= 104 cf, Depth= 0.15"

Routed to Link TSD : Total Site Discharge

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

Type III 24-hr 2-Year Rainfall=3.11"

Area (sf)	CN	Description
1,859	98	Paved roads w/curbs & sewers, HSG A
6,314	39	>75% Grass cover, Good, HSG A
8,173	52	Weighted Average
6,314		77.25% Pervious Area
1,859		22.75% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry, DIRECT

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Type III 24-hr 2-Year Rainfall=3.11"

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Summary for Subcatchment DA2: DA2

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"

Routed to Link TSD : Total Site Discharge

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

Type III 24-hr 2-Year Rainfall=3.11"

Area (sf)	CN	Description
2,711	39	>75% Grass cover, Good, HSG A
2,711		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry, DIRECT

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Type III 24-hr 2-Year Rainfall=3.11"

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Summary for Subcatchment DA3A: DA3A

Runoff = 0.61 cfs @ 12.07 hrs, Volume= 2,061 cf, Depth= 2.88"

Routed to Pond SWA : Stormtech SC-740 (SWM-A)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

Type III 24-hr 2-Year Rainfall=3.11"

Area (sf)	CN	Description
8,592	98	Roofs, HSG A
8,592		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry, DIRECT

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Type III 24-hr 2-Year Rainfall=3.11"

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Summary for Subcatchment DA3B: DA3B

Runoff = 1.39 cfs @ 12.07 hrs, Volume= 4,254 cf, Depth= 2.27"

Routed to Pond SWB : Stormtech SC-740 (SWM-B)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

Type III 24-hr 2-Year Rainfall=3.11"

Area (sf)	CN	Description
20,185	98	Paved parking, HSG A
2,350	39	>75% Grass cover, Good, HSG A
22,535	92	Weighted Average
2,350		10.43% Pervious Area
20,185		89.57% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry, DIRECT

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Type III 24-hr 2-Year Rainfall=3.11"

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Summary for Subcatchment DA3C: DA3C

Runoff = 0.11 cfs @ 12.08 hrs, Volume= 350 cf, Depth= 1.21"

Routed to Link 1L : DA3 Discharge

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

Type III 24-hr 2-Year Rainfall=3.11"

Area (sf)	CN	Description
2,325	98	Paved roads w/curbs & sewers, HSG A
1,148	39	>75% Grass cover, Good, HSG A
3,473	78	Weighted Average
1,148		33.05% Pervious Area
2,325		66.95% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry, DIRECT

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Type III 24-hr 2-Year Rainfall=3.11"

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Summary for Pond SWA: Stormtech SC-740 (SWM-A)

Inflow Area = 8,592 sf, 100.00% Impervious, Inflow Depth = 2.88" for 2-Year event
 Inflow = 0.61 cfs @ 12.07 hrs, Volume= 2,061 cf
 Outflow = 0.31 cfs @ 11.98 hrs, Volume= 2,061 cf, Atten= 50%, Lag= 0.0 min
 Discarded = 0.31 cfs @ 11.98 hrs, Volume= 2,061 cf
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
 Routed to Link 1L : DA3 Discharge

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
 Peak Elev= 100.32' @ 12.20 hrs Surf.Area= 666 sf Storage= 145 cf

Plug-Flow detention time= 1.8 min calculated for 2,060 cf (100% of inflow)
 Center-of-Mass det. time= 1.8 min (757.9 - 756.1)

Volume	Invert	Avail.Storage	Storage Description
#1A	99.80'	639 cf	11.00'W x 60.58'L x 3.50'H Field A 2,332 cf Overall - 735 cf Embedded = 1,597 cf x 40.0% Voids
#2A	100.30'	735 cf	ADS_StormTech SC-740 +Cap x 16 Inside #1 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap 16 Chambers in 2 Rows
		1,374 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Primary	101.30'	12.0" Round Outlet Pipe L= 63.0' CPP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 101.30' / 100.90' S= 0.0063 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf
#2	Device 1	102.60'	4.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#3	Discarded	99.80'	20.000 in/hr Exfiltration over Surface area

Discarded OutFlow Max=0.31 cfs @ 11.98 hrs HW=99.84' (Free Discharge)
 ↑**3=Exfiltration** (Exfiltration Controls 0.31 cfs)

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=99.80' (Free Discharge)
 ↑**1=Outlet Pipe** (Controls 0.00 cfs)
 ↑**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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Type III 24-hr 2-Year Rainfall=3.11"

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Pond SWA: Stormtech SC-740 (SWM-A) - Chamber Wizard Field A

Chamber Model = ADS_StormTech SC-740 +Cap (ADS StormTech® SC-740 with cap length)

Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf

Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap

51.0" Wide + 6.0" Spacing = 57.0" C-C Row Spacing

8 Chambers/Row x 7.12' Long +0.81' Cap Length x 2 = 58.58' Row Length +12.0" End Stone x 2 = 60.58' Base Length

2 Rows x 51.0" Wide + 6.0" Spacing x 1 + 12.0" Side Stone x 2 = 11.00' Base Width

6.0" Stone Base + 30.0" Chamber Height + 6.0" Stone Cover = 3.50' Field Height

16 Chambers x 45.9 cf = 735.0 cf Chamber Storage

2,332.2 cf Field - 735.0 cf Chambers = 1,597.2 cf Stone x 40.0% Voids = 638.9 cf Stone Storage

Chamber Storage + Stone Storage = 1,373.9 cf = 0.032 af

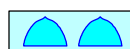
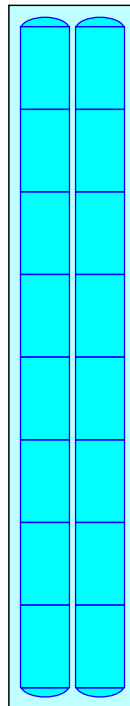
Overall Storage Efficiency = 58.9%

Overall System Size = 60.58' x 11.00' x 3.50'

16 Chambers

86.4 cy Field

59.2 cy Stone



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Type III 24-hr 2-Year Rainfall=3.11"

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Stage-Discharge for Pond SWA: Stormtech SC-740 (SWM-A)

Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)	Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)
99.80	0.00	0.00	0.00	100.32	0.31	0.31	0.00
99.81	0.31	0.31	0.00	100.33	0.31	0.31	0.00
99.82	0.31	0.31	0.00	100.34	0.31	0.31	0.00
99.83	0.31	0.31	0.00	100.35	0.31	0.31	0.00
99.84	0.31	0.31	0.00	100.36	0.31	0.31	0.00
99.85	0.31	0.31	0.00	100.37	0.31	0.31	0.00
99.86	0.31	0.31	0.00	100.38	0.31	0.31	0.00
99.87	0.31	0.31	0.00	100.39	0.31	0.31	0.00
99.88	0.31	0.31	0.00	100.40	0.31	0.31	0.00
99.89	0.31	0.31	0.00	100.41	0.31	0.31	0.00
99.90	0.31	0.31	0.00	100.42	0.31	0.31	0.00
99.91	0.31	0.31	0.00	100.43	0.31	0.31	0.00
99.92	0.31	0.31	0.00	100.44	0.31	0.31	0.00
99.93	0.31	0.31	0.00	100.45	0.31	0.31	0.00
99.94	0.31	0.31	0.00	100.46	0.31	0.31	0.00
99.95	0.31	0.31	0.00	100.47	0.31	0.31	0.00
99.96	0.31	0.31	0.00	100.48	0.31	0.31	0.00
99.97	0.31	0.31	0.00	100.49	0.31	0.31	0.00
99.98	0.31	0.31	0.00	100.50	0.31	0.31	0.00
99.99	0.31	0.31	0.00	100.51	0.31	0.31	0.00
100.00	0.31	0.31	0.00	100.52	0.31	0.31	0.00
100.01	0.31	0.31	0.00	100.53	0.31	0.31	0.00
100.02	0.31	0.31	0.00	100.54	0.31	0.31	0.00
100.03	0.31	0.31	0.00	100.55	0.31	0.31	0.00
100.04	0.31	0.31	0.00	100.56	0.31	0.31	0.00
100.05	0.31	0.31	0.00	100.57	0.31	0.31	0.00
100.06	0.31	0.31	0.00	100.58	0.31	0.31	0.00
100.07	0.31	0.31	0.00	100.59	0.31	0.31	0.00
100.08	0.31	0.31	0.00	100.60	0.31	0.31	0.00
100.09	0.31	0.31	0.00	100.61	0.31	0.31	0.00
100.10	0.31	0.31	0.00	100.62	0.31	0.31	0.00
100.11	0.31	0.31	0.00	100.63	0.31	0.31	0.00
100.12	0.31	0.31	0.00	100.64	0.31	0.31	0.00
100.13	0.31	0.31	0.00	100.65	0.31	0.31	0.00
100.14	0.31	0.31	0.00	100.66	0.31	0.31	0.00
100.15	0.31	0.31	0.00	100.67	0.31	0.31	0.00
100.16	0.31	0.31	0.00	100.68	0.31	0.31	0.00
100.17	0.31	0.31	0.00	100.69	0.31	0.31	0.00
100.18	0.31	0.31	0.00	100.70	0.31	0.31	0.00
100.19	0.31	0.31	0.00	100.71	0.31	0.31	0.00
100.20	0.31	0.31	0.00	100.72	0.31	0.31	0.00
100.21	0.31	0.31	0.00	100.73	0.31	0.31	0.00
100.22	0.31	0.31	0.00	100.74	0.31	0.31	0.00
100.23	0.31	0.31	0.00	100.75	0.31	0.31	0.00
100.24	0.31	0.31	0.00	100.76	0.31	0.31	0.00
100.25	0.31	0.31	0.00	100.77	0.31	0.31	0.00
100.26	0.31	0.31	0.00	100.78	0.31	0.31	0.00
100.27	0.31	0.31	0.00	100.79	0.31	0.31	0.00
100.28	0.31	0.31	0.00	100.80	0.31	0.31	0.00
100.29	0.31	0.31	0.00	100.81	0.31	0.31	0.00
100.30	0.31	0.31	0.00	100.82	0.31	0.31	0.00
100.31	0.31	0.31	0.00	100.83	0.31	0.31	0.00

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Stage-Discharge for Pond SWA: Stormtech SC-740 (SWM-A) (continued)

Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)	Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)
100.84	0.31	0.31	0.00	101.36	0.31	0.31	0.00
100.85	0.31	0.31	0.00	101.37	0.31	0.31	0.00
100.86	0.31	0.31	0.00	101.38	0.31	0.31	0.00
100.87	0.31	0.31	0.00	101.39	0.31	0.31	0.00
100.88	0.31	0.31	0.00	101.40	0.31	0.31	0.00
100.89	0.31	0.31	0.00	101.41	0.31	0.31	0.00
100.90	0.31	0.31	0.00	101.42	0.31	0.31	0.00
100.91	0.31	0.31	0.00	101.43	0.31	0.31	0.00
100.92	0.31	0.31	0.00	101.44	0.31	0.31	0.00
100.93	0.31	0.31	0.00	101.45	0.31	0.31	0.00
100.94	0.31	0.31	0.00	101.46	0.31	0.31	0.00
100.95	0.31	0.31	0.00	101.47	0.31	0.31	0.00
100.96	0.31	0.31	0.00	101.48	0.31	0.31	0.00
100.97	0.31	0.31	0.00	101.49	0.31	0.31	0.00
100.98	0.31	0.31	0.00	101.50	0.31	0.31	0.00
100.99	0.31	0.31	0.00	101.51	0.31	0.31	0.00
101.00	0.31	0.31	0.00	101.52	0.31	0.31	0.00
101.01	0.31	0.31	0.00	101.53	0.31	0.31	0.00
101.02	0.31	0.31	0.00	101.54	0.31	0.31	0.00
101.03	0.31	0.31	0.00	101.55	0.31	0.31	0.00
101.04	0.31	0.31	0.00	101.56	0.31	0.31	0.00
101.05	0.31	0.31	0.00	101.57	0.31	0.31	0.00
101.06	0.31	0.31	0.00	101.58	0.31	0.31	0.00
101.07	0.31	0.31	0.00	101.59	0.31	0.31	0.00
101.08	0.31	0.31	0.00	101.60	0.31	0.31	0.00
101.09	0.31	0.31	0.00	101.61	0.31	0.31	0.00
101.10	0.31	0.31	0.00	101.62	0.31	0.31	0.00
101.11	0.31	0.31	0.00	101.63	0.31	0.31	0.00
101.12	0.31	0.31	0.00	101.64	0.31	0.31	0.00
101.13	0.31	0.31	0.00	101.65	0.31	0.31	0.00
101.14	0.31	0.31	0.00	101.66	0.31	0.31	0.00
101.15	0.31	0.31	0.00	101.67	0.31	0.31	0.00
101.16	0.31	0.31	0.00	101.68	0.31	0.31	0.00
101.17	0.31	0.31	0.00	101.69	0.31	0.31	0.00
101.18	0.31	0.31	0.00	101.70	0.31	0.31	0.00
101.19	0.31	0.31	0.00	101.71	0.31	0.31	0.00
101.20	0.31	0.31	0.00	101.72	0.31	0.31	0.00
101.21	0.31	0.31	0.00	101.73	0.31	0.31	0.00
101.22	0.31	0.31	0.00	101.74	0.31	0.31	0.00
101.23	0.31	0.31	0.00	101.75	0.31	0.31	0.00
101.24	0.31	0.31	0.00	101.76	0.31	0.31	0.00
101.25	0.31	0.31	0.00	101.77	0.31	0.31	0.00
101.26	0.31	0.31	0.00	101.78	0.31	0.31	0.00
101.27	0.31	0.31	0.00	101.79	0.31	0.31	0.00
101.28	0.31	0.31	0.00	101.80	0.31	0.31	0.00
101.29	0.31	0.31	0.00	101.81	0.31	0.31	0.00
101.30	0.31	0.31	0.00	101.82	0.31	0.31	0.00
101.31	0.31	0.31	0.00	101.83	0.31	0.31	0.00
101.32	0.31	0.31	0.00	101.84	0.31	0.31	0.00
101.33	0.31	0.31	0.00	101.85	0.31	0.31	0.00
101.34	0.31	0.31	0.00	101.86	0.31	0.31	0.00
101.35	0.31	0.31	0.00	101.87	0.31	0.31	0.00

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Stage-Discharge for Pond SWA: Stormtech SC-740 (SWM-A) (continued)

Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)	Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)
101.88	0.31	0.31	0.00	102.40	0.31	0.31	0.00
101.89	0.31	0.31	0.00	102.41	0.31	0.31	0.00
101.90	0.31	0.31	0.00	102.42	0.31	0.31	0.00
101.91	0.31	0.31	0.00	102.43	0.31	0.31	0.00
101.92	0.31	0.31	0.00	102.44	0.31	0.31	0.00
101.93	0.31	0.31	0.00	102.45	0.31	0.31	0.00
101.94	0.31	0.31	0.00	102.46	0.31	0.31	0.00
101.95	0.31	0.31	0.00	102.47	0.31	0.31	0.00
101.96	0.31	0.31	0.00	102.48	0.31	0.31	0.00
101.97	0.31	0.31	0.00	102.49	0.31	0.31	0.00
101.98	0.31	0.31	0.00	102.50	0.31	0.31	0.00
101.99	0.31	0.31	0.00	102.51	0.31	0.31	0.00
102.00	0.31	0.31	0.00	102.52	0.31	0.31	0.00
102.01	0.31	0.31	0.00	102.53	0.31	0.31	0.00
102.02	0.31	0.31	0.00	102.54	0.31	0.31	0.00
102.03	0.31	0.31	0.00	102.55	0.31	0.31	0.00
102.04	0.31	0.31	0.00	102.56	0.31	0.31	0.00
102.05	0.31	0.31	0.00	102.57	0.31	0.31	0.00
102.06	0.31	0.31	0.00	102.58	0.31	0.31	0.00
102.07	0.31	0.31	0.00	102.59	0.31	0.31	0.00
102.08	0.31	0.31	0.00	102.60	0.31	0.31	0.00
102.09	0.31	0.31	0.00	102.61	0.32	0.31	0.01
102.10	0.31	0.31	0.00	102.62	0.34	0.31	0.03
102.11	0.31	0.31	0.00	102.63	0.37	0.31	0.06
102.12	0.31	0.31	0.00	102.64	0.40	0.31	0.09
102.13	0.31	0.31	0.00	102.65	0.43	0.31	0.13
102.14	0.31	0.31	0.00	102.66	0.47	0.31	0.16
102.15	0.31	0.31	0.00	102.67	0.52	0.31	0.21
102.16	0.31	0.31	0.00	102.68	0.56	0.31	0.25
102.17	0.31	0.31	0.00	102.69	0.61	0.31	0.30
102.18	0.31	0.31	0.00	102.70	0.66	0.31	0.35
102.19	0.31	0.31	0.00	102.71	0.72	0.31	0.41
102.20	0.31	0.31	0.00	102.72	0.77	0.31	0.47
102.21	0.31	0.31	0.00	102.73	0.83	0.31	0.52
102.22	0.31	0.31	0.00	102.74	0.90	0.31	0.59
102.23	0.31	0.31	0.00	102.75	0.96	0.31	0.65
102.24	0.31	0.31	0.00	102.76	1.03	0.31	0.72
102.25	0.31	0.31	0.00	102.77	1.09	0.31	0.79
102.26	0.31	0.31	0.00	102.78	1.16	0.31	0.86
102.27	0.31	0.31	0.00	102.79	1.24	0.31	0.93
102.28	0.31	0.31	0.00	102.80	1.31	0.31	1.00
102.29	0.31	0.31	0.00	102.81	1.39	0.31	1.08
102.30	0.31	0.31	0.00	102.82	1.47	0.31	1.16
102.31	0.31	0.31	0.00	102.83	1.55	0.31	1.24
102.32	0.31	0.31	0.00	102.84	1.64	0.31	1.33
102.33	0.31	0.31	0.00	102.85	1.72	0.31	1.41
102.34	0.31	0.31	0.00	102.86	1.81	0.31	1.50
102.35	0.31	0.31	0.00	102.87	1.90	0.31	1.59
102.36	0.31	0.31	0.00	102.88	2.00	0.31	1.69
102.37	0.31	0.31	0.00	102.89	2.09	0.31	1.78
102.38	0.31	0.31	0.00	102.90	2.19	0.31	1.88
102.39	0.31	0.31	0.00	102.91	2.29	0.31	1.98

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Stage-Discharge for Pond SWA: Stormtech SC-740 (SWM-A) (continued)

Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)
102.92	2.39	0.31	2.08
102.93	2.49	0.31	2.18
102.94	2.60	0.31	2.29
102.95	2.70	0.31	2.39
102.96	2.81	0.31	2.50
102.97	2.92	0.31	2.61
102.98	3.03	0.31	2.72
102.99	3.15	0.31	2.84
103.00	3.26	0.31	2.95
103.01	3.38	0.31	3.07
103.02	3.51	0.31	3.20
103.03	3.63	0.31	3.32
103.04	3.75	0.31	3.45
103.05	3.88	0.31	3.57
103.06	4.01	0.31	3.70
103.07	4.13	0.31	3.82
103.08	4.14	0.31	3.84
103.09	4.16	0.31	3.85
103.10	4.18	0.31	3.87
103.11	4.19	0.31	3.88
103.12	4.21	0.31	3.90
103.13	4.23	0.31	3.92
103.14	4.24	0.31	3.93
103.15	4.26	0.31	3.95
103.16	4.27	0.31	3.96
103.17	4.29	0.31	3.98
103.18	4.30	0.31	4.00
103.19	4.32	0.31	4.01
103.20	4.33	0.31	4.03
103.21	4.35	0.31	4.04
103.22	4.37	0.31	4.06
103.23	4.38	0.31	4.07
103.24	4.40	0.31	4.09
103.25	4.41	0.31	4.10
103.26	4.43	0.31	4.12
103.27	4.44	0.31	4.13
103.28	4.46	0.31	4.15
103.29	4.47	0.31	4.16
103.30	4.49	0.31	4.18

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Stage-Area-Storage for Pond SWA: Stormtech SC-740 (SWM-A)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
99.80	666	0	100.32	666	144
99.81	666	3	100.33	666	149
99.82	666	5	100.34	666	154
99.83	666	8	100.35	666	159
99.84	666	11	100.36	666	165
99.85	666	13	100.37	666	170
99.86	666	16	100.38	666	175
99.87	666	19	100.39	666	180
99.88	666	21	100.40	666	185
99.89	666	24	100.41	666	191
99.90	666	27	100.42	666	196
99.91	666	29	100.43	666	201
99.92	666	32	100.44	666	206
99.93	666	35	100.45	666	211
99.94	666	37	100.46	666	216
99.95	666	40	100.47	666	222
99.96	666	43	100.48	666	227
99.97	666	45	100.49	666	232
99.98	666	48	100.50	666	237
99.99	666	51	100.51	666	242
100.00	666	53	100.52	666	248
100.01	666	56	100.53	666	253
100.02	666	59	100.54	666	258
100.03	666	61	100.55	666	263
100.04	666	64	100.56	666	268
100.05	666	67	100.57	666	273
100.06	666	69	100.58	666	279
100.07	666	72	100.59	666	284
100.08	666	75	100.60	666	289
100.09	666	77	100.61	666	294
100.10	666	80	100.62	666	299
100.11	666	83	100.63	666	304
100.12	666	85	100.64	666	309
100.13	666	88	100.65	666	315
100.14	666	91	100.66	666	320
100.15	666	93	100.67	666	325
100.16	666	96	100.68	666	330
100.17	666	99	100.69	666	335
100.18	666	101	100.70	666	340
100.19	666	104	100.71	666	345
100.20	666	107	100.72	666	350
100.21	666	109	100.73	666	355
100.22	666	112	100.74	666	361
100.23	666	115	100.75	666	366
100.24	666	117	100.76	666	371
100.25	666	120	100.77	666	376
100.26	666	123	100.78	666	381
100.27	666	125	100.79	666	386
100.28	666	128	100.80	666	391
100.29	666	131	100.81	666	396
100.30	666	133	100.82	666	401
100.31	666	138	100.83	666	406

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Stage-Area-Storage for Pond SWA: Stormtech SC-740 (SWM-A) (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
100.84	666	411	101.36	666	668
100.85	666	416	101.37	666	672
100.86	666	421	101.38	666	677
100.87	666	426	101.39	666	682
100.88	666	431	101.40	666	687
100.89	666	437	101.41	666	692
100.90	666	442	101.42	666	696
100.91	666	447	101.43	666	701
100.92	666	452	101.44	666	706
100.93	666	457	101.45	666	710
100.94	666	462	101.46	666	715
100.95	666	467	101.47	666	720
100.96	666	472	101.48	666	725
100.97	666	477	101.49	666	729
100.98	666	482	101.50	666	734
100.99	666	487	101.51	666	739
101.00	666	492	101.52	666	743
101.01	666	497	101.53	666	748
101.02	666	502	101.54	666	753
101.03	666	507	101.55	666	757
101.04	666	512	101.56	666	762
101.05	666	516	101.57	666	767
101.06	666	521	101.58	666	771
101.07	666	526	101.59	666	776
101.08	666	531	101.60	666	781
101.09	666	536	101.61	666	785
101.10	666	541	101.62	666	790
101.11	666	546	101.63	666	794
101.12	666	551	101.64	666	799
101.13	666	556	101.65	666	804
101.14	666	561	101.66	666	808
101.15	666	566	101.67	666	813
101.16	666	571	101.68	666	817
101.17	666	576	101.69	666	822
101.18	666	581	101.70	666	826
101.19	666	585	101.71	666	831
101.20	666	590	101.72	666	835
101.21	666	595	101.73	666	840
101.22	666	600	101.74	666	844
101.23	666	605	101.75	666	849
101.24	666	610	101.76	666	853
101.25	666	615	101.77	666	858
101.26	666	619	101.78	666	862
101.27	666	624	101.79	666	867
101.28	666	629	101.80	666	871
101.29	666	634	101.81	666	876
101.30	666	639	101.82	666	880
101.31	666	644	101.83	666	885
101.32	666	648	101.84	666	889
101.33	666	653	101.85	666	893
101.34	666	658	101.86	666	898
101.35	666	663	101.87	666	902

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Stage-Area-Storage for Pond SWA: Stormtech SC-740 (SWM-A) (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
101.88	666	907	102.40	666	1,117
101.89	666	911	102.41	666	1,121
101.90	666	915	102.42	666	1,124
101.91	666	920	102.43	666	1,128
101.92	666	924	102.44	666	1,132
101.93	666	928	102.45	666	1,135
101.94	666	933	102.46	666	1,139
101.95	666	937	102.47	666	1,142
101.96	666	941	102.48	666	1,146
101.97	666	946	102.49	666	1,149
101.98	666	950	102.50	666	1,152
101.99	666	954	102.51	666	1,156
102.00	666	958	102.52	666	1,159
102.01	666	963	102.53	666	1,162
102.02	666	967	102.54	666	1,165
102.03	666	971	102.55	666	1,169
102.04	666	975	102.56	666	1,172
102.05	666	979	102.57	666	1,175
102.06	666	984	102.58	666	1,178
102.07	666	988	102.59	666	1,181
102.08	666	992	102.60	666	1,184
102.09	666	996	102.61	666	1,187
102.10	666	1,000	102.62	666	1,190
102.11	666	1,004	102.63	666	1,193
102.12	666	1,008	102.64	666	1,196
102.13	666	1,012	102.65	666	1,199
102.14	666	1,016	102.66	666	1,202
102.15	666	1,021	102.67	666	1,205
102.16	666	1,025	102.68	666	1,208
102.17	666	1,029	102.69	666	1,210
102.18	666	1,033	102.70	666	1,213
102.19	666	1,037	102.71	666	1,216
102.20	666	1,041	102.72	666	1,219
102.21	666	1,045	102.73	666	1,222
102.22	666	1,049	102.74	666	1,224
102.23	666	1,053	102.75	666	1,227
102.24	666	1,056	102.76	666	1,230
102.25	666	1,060	102.77	666	1,233
102.26	666	1,064	102.78	666	1,235
102.27	666	1,068	102.79	666	1,238
102.28	666	1,072	102.80	666	1,241
102.29	666	1,076	102.81	666	1,243
102.30	666	1,080	102.82	666	1,246
102.31	666	1,084	102.83	666	1,249
102.32	666	1,087	102.84	666	1,251
102.33	666	1,091	102.85	666	1,254
102.34	666	1,095	102.86	666	1,257
102.35	666	1,099	102.87	666	1,259
102.36	666	1,102	102.88	666	1,262
102.37	666	1,106	102.89	666	1,265
102.38	666	1,110	102.90	666	1,267
102.39	666	1,114	102.91	666	1,270

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Stage-Area-Storage for Pond SWA: Stormtech SC-740 (SWM-A) (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
102.92	666	1,273
102.93	666	1,275
102.94	666	1,278
102.95	666	1,281
102.96	666	1,283
102.97	666	1,286
102.98	666	1,289
102.99	666	1,291
103.00	666	1,294
103.01	666	1,297
103.02	666	1,299
103.03	666	1,302
103.04	666	1,305
103.05	666	1,307
103.06	666	1,310
103.07	666	1,313
103.08	666	1,315
103.09	666	1,318
103.10	666	1,321
103.11	666	1,323
103.12	666	1,326
103.13	666	1,329
103.14	666	1,331
103.15	666	1,334
103.16	666	1,337
103.17	666	1,339
103.18	666	1,342
103.19	666	1,345
103.20	666	1,347
103.21	666	1,350
103.22	666	1,353
103.23	666	1,355
103.24	666	1,358
103.25	666	1,361
103.26	666	1,363
103.27	666	1,366
103.28	666	1,369
103.29	666	1,371
103.30	666	1,374

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Summary for Pond SWB: Stormtech SC-740 (SWM-B)

Inflow Area = 22,535 sf, 89.57% Impervious, Inflow Depth = 2.27" for 2-Year event
 Inflow = 1.39 cfs @ 12.07 hrs, Volume= 4,254 cf
 Outflow = 0.75 cfs @ 12.00 hrs, Volume= 4,254 cf, Atten= 46%, Lag= 0.0 min
 Discarded = 0.75 cfs @ 12.00 hrs, Volume= 4,254 cf
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
 Routed to Link 1L : DA3 Discharge

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
 Peak Elev= 100.25' @ 12.19 hrs Surf.Area= 1,610 sf Storage= 291 cf

Plug-Flow detention time= 1.6 min calculated for 4,253 cf (100% of inflow)
 Center-of-Mass det. time= 1.6 min (799.5 - 797.9)

Volume	Invert	Avail.Storage	Storage Description
#1A	99.80'	1,482 cf	34.75'W x 46.34'L x 3.50'H Field A 5,636 cf Overall - 1,929 cf Embedded = 3,706 cf x 40.0% Voids
#2A	100.30'	1,929 cf	ADS_StormTech SC-740 +Cap x 42 Inside #1 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap 42 Chambers in 7 Rows
		3,412 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Primary	101.30'	12.0" Round Outlet Pipe L= 63.0' CPP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 101.30' / 100.90' S= 0.0063 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf
#2	Device 1	102.60'	4.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#3	Discarded	99.80'	20.000 in/hr Exfiltration over Surface area

Discarded OutFlow Max=0.75 cfs @ 12.00 hrs HW=99.85' (Free Discharge)
 ↑**3=Exfiltration** (Exfiltration Controls 0.75 cfs)

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=99.80' (Free Discharge)
 ↑**1=Outlet Pipe** (Controls 0.00 cfs)
 ↑**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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Pond SWB: Stormtech SC-740 (SWM-B) - Chamber Wizard Field A

Chamber Model = ADS_StormTech SC-740 +Cap (ADS StormTech® SC-740 with cap length)

Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf

Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap

51.0" Wide + 6.0" Spacing = 57.0" C-C Row Spacing

6 Chambers/Row x 7.12' Long +0.81' Cap Length x 2 = 44.34' Row Length +12.0" End Stone x 2 = 46.34' Base Length

7 Rows x 51.0" Wide + 6.0" Spacing x 6 + 12.0" Side Stone x 2 = 34.75' Base Width

6.0" Stone Base + 30.0" Chamber Height + 6.0" Stone Cover = 3.50' Field Height

42 Chambers x 45.9 cf = 1,929.5 cf Chamber Storage

5,635.7 cf Field - 1,929.5 cf Chambers = 3,706.2 cf Stone x 40.0% Voids = 1,482.5 cf Stone Storage

Chamber Storage + Stone Storage = 3,412.0 cf = 0.078 af

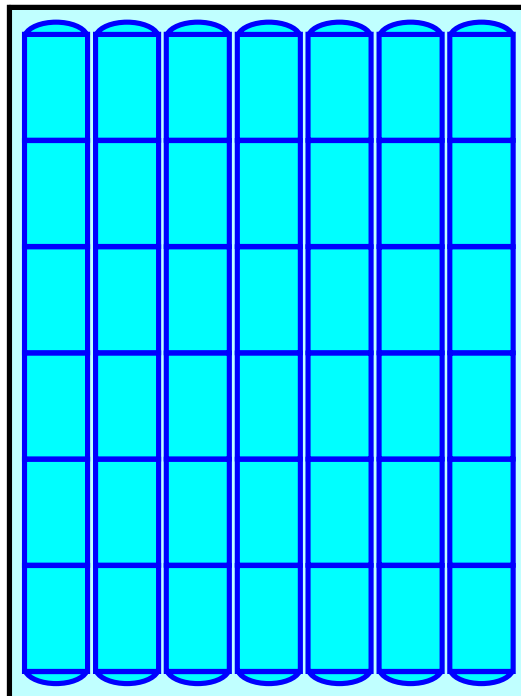
Overall Storage Efficiency = 60.5%

Overall System Size = 46.34' x 34.75' x 3.50'

42 Chambers

208.7 cy Field

137.3 cy Stone



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Stage-Discharge for Pond SWB: Stormtech SC-740 (SWM-B)

Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)	Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)
99.80	0.00	0.00	0.00	100.32	0.75	0.75	0.00
99.81	0.75	0.75	0.00	100.33	0.75	0.75	0.00
99.82	0.75	0.75	0.00	100.34	0.75	0.75	0.00
99.83	0.75	0.75	0.00	100.35	0.75	0.75	0.00
99.84	0.75	0.75	0.00	100.36	0.75	0.75	0.00
99.85	0.75	0.75	0.00	100.37	0.75	0.75	0.00
99.86	0.75	0.75	0.00	100.38	0.75	0.75	0.00
99.87	0.75	0.75	0.00	100.39	0.75	0.75	0.00
99.88	0.75	0.75	0.00	100.40	0.75	0.75	0.00
99.89	0.75	0.75	0.00	100.41	0.75	0.75	0.00
99.90	0.75	0.75	0.00	100.42	0.75	0.75	0.00
99.91	0.75	0.75	0.00	100.43	0.75	0.75	0.00
99.92	0.75	0.75	0.00	100.44	0.75	0.75	0.00
99.93	0.75	0.75	0.00	100.45	0.75	0.75	0.00
99.94	0.75	0.75	0.00	100.46	0.75	0.75	0.00
99.95	0.75	0.75	0.00	100.47	0.75	0.75	0.00
99.96	0.75	0.75	0.00	100.48	0.75	0.75	0.00
99.97	0.75	0.75	0.00	100.49	0.75	0.75	0.00
99.98	0.75	0.75	0.00	100.50	0.75	0.75	0.00
99.99	0.75	0.75	0.00	100.51	0.75	0.75	0.00
100.00	0.75	0.75	0.00	100.52	0.75	0.75	0.00
100.01	0.75	0.75	0.00	100.53	0.75	0.75	0.00
100.02	0.75	0.75	0.00	100.54	0.75	0.75	0.00
100.03	0.75	0.75	0.00	100.55	0.75	0.75	0.00
100.04	0.75	0.75	0.00	100.56	0.75	0.75	0.00
100.05	0.75	0.75	0.00	100.57	0.75	0.75	0.00
100.06	0.75	0.75	0.00	100.58	0.75	0.75	0.00
100.07	0.75	0.75	0.00	100.59	0.75	0.75	0.00
100.08	0.75	0.75	0.00	100.60	0.75	0.75	0.00
100.09	0.75	0.75	0.00	100.61	0.75	0.75	0.00
100.10	0.75	0.75	0.00	100.62	0.75	0.75	0.00
100.11	0.75	0.75	0.00	100.63	0.75	0.75	0.00
100.12	0.75	0.75	0.00	100.64	0.75	0.75	0.00
100.13	0.75	0.75	0.00	100.65	0.75	0.75	0.00
100.14	0.75	0.75	0.00	100.66	0.75	0.75	0.00
100.15	0.75	0.75	0.00	100.67	0.75	0.75	0.00
100.16	0.75	0.75	0.00	100.68	0.75	0.75	0.00
100.17	0.75	0.75	0.00	100.69	0.75	0.75	0.00
100.18	0.75	0.75	0.00	100.70	0.75	0.75	0.00
100.19	0.75	0.75	0.00	100.71	0.75	0.75	0.00
100.20	0.75	0.75	0.00	100.72	0.75	0.75	0.00
100.21	0.75	0.75	0.00	100.73	0.75	0.75	0.00
100.22	0.75	0.75	0.00	100.74	0.75	0.75	0.00
100.23	0.75	0.75	0.00	100.75	0.75	0.75	0.00
100.24	0.75	0.75	0.00	100.76	0.75	0.75	0.00
100.25	0.75	0.75	0.00	100.77	0.75	0.75	0.00
100.26	0.75	0.75	0.00	100.78	0.75	0.75	0.00
100.27	0.75	0.75	0.00	100.79	0.75	0.75	0.00
100.28	0.75	0.75	0.00	100.80	0.75	0.75	0.00
100.29	0.75	0.75	0.00	100.81	0.75	0.75	0.00
100.30	0.75	0.75	0.00	100.82	0.75	0.75	0.00
100.31	0.75	0.75	0.00	100.83	0.75	0.75	0.00

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Stage-Discharge for Pond SWB: Stormtech SC-740 (SWM-B) (continued)

Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)	Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)
100.84	0.75	0.75	0.00	101.36	0.75	0.75	0.00
100.85	0.75	0.75	0.00	101.37	0.75	0.75	0.00
100.86	0.75	0.75	0.00	101.38	0.75	0.75	0.00
100.87	0.75	0.75	0.00	101.39	0.75	0.75	0.00
100.88	0.75	0.75	0.00	101.40	0.75	0.75	0.00
100.89	0.75	0.75	0.00	101.41	0.75	0.75	0.00
100.90	0.75	0.75	0.00	101.42	0.75	0.75	0.00
100.91	0.75	0.75	0.00	101.43	0.75	0.75	0.00
100.92	0.75	0.75	0.00	101.44	0.75	0.75	0.00
100.93	0.75	0.75	0.00	101.45	0.75	0.75	0.00
100.94	0.75	0.75	0.00	101.46	0.75	0.75	0.00
100.95	0.75	0.75	0.00	101.47	0.75	0.75	0.00
100.96	0.75	0.75	0.00	101.48	0.75	0.75	0.00
100.97	0.75	0.75	0.00	101.49	0.75	0.75	0.00
100.98	0.75	0.75	0.00	101.50	0.75	0.75	0.00
100.99	0.75	0.75	0.00	101.51	0.75	0.75	0.00
101.00	0.75	0.75	0.00	101.52	0.75	0.75	0.00
101.01	0.75	0.75	0.00	101.53	0.75	0.75	0.00
101.02	0.75	0.75	0.00	101.54	0.75	0.75	0.00
101.03	0.75	0.75	0.00	101.55	0.75	0.75	0.00
101.04	0.75	0.75	0.00	101.56	0.75	0.75	0.00
101.05	0.75	0.75	0.00	101.57	0.75	0.75	0.00
101.06	0.75	0.75	0.00	101.58	0.75	0.75	0.00
101.07	0.75	0.75	0.00	101.59	0.75	0.75	0.00
101.08	0.75	0.75	0.00	101.60	0.75	0.75	0.00
101.09	0.75	0.75	0.00	101.61	0.75	0.75	0.00
101.10	0.75	0.75	0.00	101.62	0.75	0.75	0.00
101.11	0.75	0.75	0.00	101.63	0.75	0.75	0.00
101.12	0.75	0.75	0.00	101.64	0.75	0.75	0.00
101.13	0.75	0.75	0.00	101.65	0.75	0.75	0.00
101.14	0.75	0.75	0.00	101.66	0.75	0.75	0.00
101.15	0.75	0.75	0.00	101.67	0.75	0.75	0.00
101.16	0.75	0.75	0.00	101.68	0.75	0.75	0.00
101.17	0.75	0.75	0.00	101.69	0.75	0.75	0.00
101.18	0.75	0.75	0.00	101.70	0.75	0.75	0.00
101.19	0.75	0.75	0.00	101.71	0.75	0.75	0.00
101.20	0.75	0.75	0.00	101.72	0.75	0.75	0.00
101.21	0.75	0.75	0.00	101.73	0.75	0.75	0.00
101.22	0.75	0.75	0.00	101.74	0.75	0.75	0.00
101.23	0.75	0.75	0.00	101.75	0.75	0.75	0.00
101.24	0.75	0.75	0.00	101.76	0.75	0.75	0.00
101.25	0.75	0.75	0.00	101.77	0.75	0.75	0.00
101.26	0.75	0.75	0.00	101.78	0.75	0.75	0.00
101.27	0.75	0.75	0.00	101.79	0.75	0.75	0.00
101.28	0.75	0.75	0.00	101.80	0.75	0.75	0.00
101.29	0.75	0.75	0.00	101.81	0.75	0.75	0.00
101.30	0.75	0.75	0.00	101.82	0.75	0.75	0.00
101.31	0.75	0.75	0.00	101.83	0.75	0.75	0.00
101.32	0.75	0.75	0.00	101.84	0.75	0.75	0.00
101.33	0.75	0.75	0.00	101.85	0.75	0.75	0.00
101.34	0.75	0.75	0.00	101.86	0.75	0.75	0.00
101.35	0.75	0.75	0.00	101.87	0.75	0.75	0.00

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Stage-Discharge for Pond SWB: Stormtech SC-740 (SWM-B) (continued)

Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)	Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)
101.88	0.75	0.75	0.00	102.40	0.75	0.75	0.00
101.89	0.75	0.75	0.00	102.41	0.75	0.75	0.00
101.90	0.75	0.75	0.00	102.42	0.75	0.75	0.00
101.91	0.75	0.75	0.00	102.43	0.75	0.75	0.00
101.92	0.75	0.75	0.00	102.44	0.75	0.75	0.00
101.93	0.75	0.75	0.00	102.45	0.75	0.75	0.00
101.94	0.75	0.75	0.00	102.46	0.75	0.75	0.00
101.95	0.75	0.75	0.00	102.47	0.75	0.75	0.00
101.96	0.75	0.75	0.00	102.48	0.75	0.75	0.00
101.97	0.75	0.75	0.00	102.49	0.75	0.75	0.00
101.98	0.75	0.75	0.00	102.50	0.75	0.75	0.00
101.99	0.75	0.75	0.00	102.51	0.75	0.75	0.00
102.00	0.75	0.75	0.00	102.52	0.75	0.75	0.00
102.01	0.75	0.75	0.00	102.53	0.75	0.75	0.00
102.02	0.75	0.75	0.00	102.54	0.75	0.75	0.00
102.03	0.75	0.75	0.00	102.55	0.75	0.75	0.00
102.04	0.75	0.75	0.00	102.56	0.75	0.75	0.00
102.05	0.75	0.75	0.00	102.57	0.75	0.75	0.00
102.06	0.75	0.75	0.00	102.58	0.75	0.75	0.00
102.07	0.75	0.75	0.00	102.59	0.75	0.75	0.00
102.08	0.75	0.75	0.00	102.60	0.75	0.75	0.00
102.09	0.75	0.75	0.00	102.61	0.76	0.75	0.01
102.10	0.75	0.75	0.00	102.62	0.78	0.75	0.03
102.11	0.75	0.75	0.00	102.63	0.80	0.75	0.06
102.12	0.75	0.75	0.00	102.64	0.84	0.75	0.09
102.13	0.75	0.75	0.00	102.65	0.87	0.75	0.13
102.14	0.75	0.75	0.00	102.66	0.91	0.75	0.16
102.15	0.75	0.75	0.00	102.67	0.95	0.75	0.21
102.16	0.75	0.75	0.00	102.68	1.00	0.75	0.25
102.17	0.75	0.75	0.00	102.69	1.05	0.75	0.30
102.18	0.75	0.75	0.00	102.70	1.10	0.75	0.35
102.19	0.75	0.75	0.00	102.71	1.15	0.75	0.41
102.20	0.75	0.75	0.00	102.72	1.21	0.75	0.47
102.21	0.75	0.75	0.00	102.73	1.27	0.75	0.52
102.22	0.75	0.75	0.00	102.74	1.33	0.75	0.59
102.23	0.75	0.75	0.00	102.75	1.40	0.75	0.65
102.24	0.75	0.75	0.00	102.76	1.46	0.75	0.72
102.25	0.75	0.75	0.00	102.77	1.53	0.75	0.79
102.26	0.75	0.75	0.00	102.78	1.60	0.75	0.86
102.27	0.75	0.75	0.00	102.79	1.67	0.75	0.93
102.28	0.75	0.75	0.00	102.80	1.75	0.75	1.00
102.29	0.75	0.75	0.00	102.81	1.83	0.75	1.08
102.30	0.75	0.75	0.00	102.82	1.91	0.75	1.16
102.31	0.75	0.75	0.00	102.83	1.99	0.75	1.24
102.32	0.75	0.75	0.00	102.84	2.07	0.75	1.33
102.33	0.75	0.75	0.00	102.85	2.16	0.75	1.41
102.34	0.75	0.75	0.00	102.86	2.25	0.75	1.50
102.35	0.75	0.75	0.00	102.87	2.34	0.75	1.59
102.36	0.75	0.75	0.00	102.88	2.43	0.75	1.69
102.37	0.75	0.75	0.00	102.89	2.53	0.75	1.78
102.38	0.75	0.75	0.00	102.90	2.63	0.75	1.88
102.39	0.75	0.75	0.00	102.91	2.72	0.75	1.98

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Stage-Discharge for Pond SWB: Stormtech SC-740 (SWM-B) (continued)

Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)
102.92	2.83	0.75	2.08
102.93	2.93	0.75	2.18
102.94	3.03	0.75	2.29
102.95	3.14	0.75	2.39
102.96	3.25	0.75	2.50
102.97	3.36	0.75	2.61
102.98	3.47	0.75	2.72
102.99	3.58	0.75	2.84
103.00	3.70	0.75	2.95
103.01	3.82	0.75	3.07
103.02	3.94	0.75	3.20
103.03	4.07	0.75	3.32
103.04	4.19	0.75	3.45
103.05	4.32	0.75	3.57
103.06	4.45	0.75	3.70
103.07	4.57	0.75	3.82
103.08	4.58	0.75	3.84
103.09	4.60	0.75	3.85
103.10	4.61	0.75	3.87
103.11	4.63	0.75	3.88
103.12	4.65	0.75	3.90
103.13	4.66	0.75	3.92
103.14	4.68	0.75	3.93
103.15	4.69	0.75	3.95
103.16	4.71	0.75	3.96
103.17	4.73	0.75	3.98
103.18	4.74	0.75	4.00
103.19	4.76	0.75	4.01
103.20	4.77	0.75	4.03
103.21	4.79	0.75	4.04
103.22	4.80	0.75	4.06
103.23	4.82	0.75	4.07
103.24	4.83	0.75	4.09
103.25	4.85	0.75	4.10
103.26	4.86	0.75	4.12
103.27	4.88	0.75	4.13
103.28	4.89	0.75	4.15
103.29	4.91	0.75	4.16
103.30	4.92	0.75	4.18

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Stage-Area-Storage for Pond SWB: Stormtech SC-740 (SWM-B)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
99.80	1,610	0	100.32	1,610	348
99.81	1,610	6	100.33	1,610	361
99.82	1,610	13	100.34	1,610	374
99.83	1,610	19	100.35	1,610	388
99.84	1,610	26	100.36	1,610	401
99.85	1,610	32	100.37	1,610	414
99.86	1,610	39	100.38	1,610	427
99.87	1,610	45	100.39	1,610	440
99.88	1,610	52	100.40	1,610	453
99.89	1,610	58	100.41	1,610	466
99.90	1,610	64	100.42	1,610	479
99.91	1,610	71	100.43	1,610	492
99.92	1,610	77	100.44	1,610	505
99.93	1,610	84	100.45	1,610	519
99.94	1,610	90	100.46	1,610	532
99.95	1,610	97	100.47	1,610	545
99.96	1,610	103	100.48	1,610	558
99.97	1,610	109	100.49	1,610	571
99.98	1,610	116	100.50	1,610	584
99.99	1,610	122	100.51	1,610	597
100.00	1,610	129	100.52	1,610	610
100.01	1,610	135	100.53	1,610	623
100.02	1,610	142	100.54	1,610	636
100.03	1,610	148	100.55	1,610	649
100.04	1,610	155	100.56	1,610	662
100.05	1,610	161	100.57	1,610	675
100.06	1,610	167	100.58	1,610	688
100.07	1,610	174	100.59	1,610	701
100.08	1,610	180	100.60	1,610	714
100.09	1,610	187	100.61	1,610	727
100.10	1,610	193	100.62	1,610	740
100.11	1,610	200	100.63	1,610	753
100.12	1,610	206	100.64	1,610	765
100.13	1,610	213	100.65	1,610	778
100.14	1,610	219	100.66	1,610	791
100.15	1,610	225	100.67	1,610	804
100.16	1,610	232	100.68	1,610	817
100.17	1,610	238	100.69	1,610	830
100.18	1,610	245	100.70	1,610	843
100.19	1,610	251	100.71	1,610	856
100.20	1,610	258	100.72	1,610	869
100.21	1,610	264	100.73	1,610	881
100.22	1,610	271	100.74	1,610	894
100.23	1,610	277	100.75	1,610	907
100.24	1,610	283	100.76	1,610	920
100.25	1,610	290	100.77	1,610	933
100.26	1,610	296	100.78	1,610	945
100.27	1,610	303	100.79	1,610	958
100.28	1,610	309	100.80	1,610	971
100.29	1,610	316	100.81	1,610	984
100.30	1,610	322	100.82	1,610	996
100.31	1,610	335	100.83	1,610	1,009

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Stage-Area-Storage for Pond SWB: Stormtech SC-740 (SWM-B) (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
100.84	1,610	1,022	101.36	1,610	1,666
100.85	1,610	1,035	101.37	1,610	1,678
100.86	1,610	1,047	101.38	1,610	1,690
100.87	1,610	1,060	101.39	1,610	1,702
100.88	1,610	1,073	101.40	1,610	1,714
100.89	1,610	1,085	101.41	1,610	1,726
100.90	1,610	1,098	101.42	1,610	1,738
100.91	1,610	1,111	101.43	1,610	1,750
100.92	1,610	1,123	101.44	1,610	1,761
100.93	1,610	1,136	101.45	1,610	1,773
100.94	1,610	1,148	101.46	1,610	1,785
100.95	1,610	1,161	101.47	1,610	1,797
100.96	1,610	1,174	101.48	1,610	1,809
100.97	1,610	1,186	101.49	1,610	1,821
100.98	1,610	1,199	101.50	1,610	1,832
100.99	1,610	1,211	101.51	1,610	1,844
101.00	1,610	1,224	101.52	1,610	1,856
101.01	1,610	1,236	101.53	1,610	1,867
101.02	1,610	1,249	101.54	1,610	1,879
101.03	1,610	1,261	101.55	1,610	1,891
101.04	1,610	1,274	101.56	1,610	1,902
101.05	1,610	1,286	101.57	1,610	1,914
101.06	1,610	1,299	101.58	1,610	1,926
101.07	1,610	1,311	101.59	1,610	1,937
101.08	1,610	1,324	101.60	1,610	1,949
101.09	1,610	1,336	101.61	1,610	1,960
101.10	1,610	1,348	101.62	1,610	1,972
101.11	1,610	1,361	101.63	1,610	1,983
101.12	1,610	1,373	101.64	1,610	1,995
101.13	1,610	1,386	101.65	1,610	2,006
101.14	1,610	1,398	101.66	1,610	2,018
101.15	1,610	1,410	101.67	1,610	2,029
101.16	1,610	1,423	101.68	1,610	2,041
101.17	1,610	1,435	101.69	1,610	2,052
101.18	1,610	1,447	101.70	1,610	2,064
101.19	1,610	1,459	101.71	1,610	2,075
101.20	1,610	1,472	101.72	1,610	2,086
101.21	1,610	1,484	101.73	1,610	2,097
101.22	1,610	1,496	101.74	1,610	2,109
101.23	1,610	1,508	101.75	1,610	2,120
101.24	1,610	1,521	101.76	1,610	2,131
101.25	1,610	1,533	101.77	1,610	2,142
101.26	1,610	1,545	101.78	1,610	2,154
101.27	1,610	1,557	101.79	1,610	2,165
101.28	1,610	1,569	101.80	1,610	2,176
101.29	1,610	1,581	101.81	1,610	2,187
101.30	1,610	1,594	101.82	1,610	2,198
101.31	1,610	1,606	101.83	1,610	2,209
101.32	1,610	1,618	101.84	1,610	2,220
101.33	1,610	1,630	101.85	1,610	2,231
101.34	1,610	1,642	101.86	1,610	2,242
101.35	1,610	1,654	101.87	1,610	2,253

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Stage-Area-Storage for Pond SWB: Stormtech SC-740 (SWM-B) (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
101.88	1,610	2,264	102.40	1,610	2,788
101.89	1,610	2,275	102.41	1,610	2,797
101.90	1,610	2,286	102.42	1,610	2,806
101.91	1,610	2,297	102.43	1,610	2,815
101.92	1,610	2,308	102.44	1,610	2,824
101.93	1,610	2,319	102.45	1,610	2,832
101.94	1,610	2,329	102.46	1,610	2,841
101.95	1,610	2,340	102.47	1,610	2,850
101.96	1,610	2,351	102.48	1,610	2,858
101.97	1,610	2,362	102.49	1,610	2,866
101.98	1,610	2,372	102.50	1,610	2,875
101.99	1,610	2,383	102.51	1,610	2,883
102.00	1,610	2,393	102.52	1,610	2,891
102.01	1,610	2,404	102.53	1,610	2,899
102.02	1,610	2,415	102.54	1,610	2,907
102.03	1,610	2,425	102.55	1,610	2,915
102.04	1,610	2,435	102.56	1,610	2,923
102.05	1,610	2,446	102.57	1,610	2,930
102.06	1,610	2,456	102.58	1,610	2,938
102.07	1,610	2,467	102.59	1,610	2,945
102.08	1,610	2,477	102.60	1,610	2,953
102.09	1,610	2,487	102.61	1,610	2,960
102.10	1,610	2,498	102.62	1,610	2,967
102.11	1,610	2,508	102.63	1,610	2,975
102.12	1,610	2,518	102.64	1,610	2,982
102.13	1,610	2,528	102.65	1,610	2,989
102.14	1,610	2,538	102.66	1,610	2,996
102.15	1,610	2,548	102.67	1,610	3,003
102.16	1,610	2,558	102.68	1,610	3,010
102.17	1,610	2,568	102.69	1,610	3,017
102.18	1,610	2,578	102.70	1,610	3,023
102.19	1,610	2,588	102.71	1,610	3,030
102.20	1,610	2,598	102.72	1,610	3,037
102.21	1,610	2,608	102.73	1,610	3,044
102.22	1,610	2,618	102.74	1,610	3,051
102.23	1,610	2,628	102.75	1,610	3,057
102.24	1,610	2,638	102.76	1,610	3,064
102.25	1,610	2,647	102.77	1,610	3,070
102.26	1,610	2,657	102.78	1,610	3,077
102.27	1,610	2,667	102.79	1,610	3,083
102.28	1,610	2,676	102.80	1,610	3,090
102.29	1,610	2,686	102.81	1,610	3,096
102.30	1,610	2,695	102.82	1,610	3,103
102.31	1,610	2,705	102.83	1,610	3,109
102.32	1,610	2,714	102.84	1,610	3,116
102.33	1,610	2,724	102.85	1,610	3,122
102.34	1,610	2,733	102.86	1,610	3,129
102.35	1,610	2,742	102.87	1,610	3,135
102.36	1,610	2,752	102.88	1,610	3,141
102.37	1,610	2,761	102.89	1,610	3,148
102.38	1,610	2,770	102.90	1,610	3,154
102.39	1,610	2,779	102.91	1,610	3,161

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Stage-Area-Storage for Pond SWB: Stormtech SC-740 (SWM-B) (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
102.92	1,610	3,167
102.93	1,610	3,174
102.94	1,610	3,180
102.95	1,610	3,187
102.96	1,610	3,193
102.97	1,610	3,199
102.98	1,610	3,206
102.99	1,610	3,212
103.00	1,610	3,219
103.01	1,610	3,225
103.02	1,610	3,232
103.03	1,610	3,238
103.04	1,610	3,245
103.05	1,610	3,251
103.06	1,610	3,257
103.07	1,610	3,264
103.08	1,610	3,270
103.09	1,610	3,277
103.10	1,610	3,283
103.11	1,610	3,290
103.12	1,610	3,296
103.13	1,610	3,302
103.14	1,610	3,309
103.15	1,610	3,315
103.16	1,610	3,322
103.17	1,610	3,328
103.18	1,610	3,335
103.19	1,610	3,341
103.20	1,610	3,348
103.21	1,610	3,354
103.22	1,610	3,360
103.23	1,610	3,367
103.24	1,610	3,373
103.25	1,610	3,380
103.26	1,610	3,386
103.27	1,610	3,393
103.28	1,610	3,399
103.29	1,610	3,406
103.30	1,610	3,412

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Summary for Link 1L: DA3 Discharge

Inflow Area = 34,600 sf, 89.89% Impervious, Inflow Depth = 0.12" for 2-Year event
Inflow = 0.11 cfs @ 12.08 hrs, Volume= 350 cf
Primary = 0.11 cfs @ 12.08 hrs, Volume= 350 cf, Atten= 0%, Lag= 0.0 min
Routed to Link TSD : Total Site Discharge

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

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Summary for Link TSD: Total Site Discharge

Inflow Area = 45,484 sf, 72.47% Impervious, Inflow Depth = 0.12" for 2-Year event
Inflow = 0.11 cfs @ 12.08 hrs, Volume= 453 cf
Primary = 0.11 cfs @ 12.08 hrs, Volume= 453 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

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Type III 24-hr 10-Year Rainfall=4.89"

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Time span=0.00-72.00 hrs, dt=0.02 hrs, 3601 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind method - Pond routing by Stor-Ind method

Subcatchment DA1: DA1 Runoff Area=8,173 sf 22.75% Impervious Runoff Depth=0.75"
Tc=5.0 min CN=52 Runoff=0.12 cfs 514 cf

Subcatchment DA2: DA2 Runoff Area=2,711 sf 0.00% Impervious Runoff Depth=0.18"
Tc=5.0 min CN=39 Runoff=0.00 cfs 40 cf

Subcatchment DA3A: DA3A Runoff Area=8,592 sf 100.00% Impervious Runoff Depth=4.65"
Tc=5.0 min CN=98 Runoff=0.97 cfs 3,332 cf

Subcatchment DA3B: DA3B Runoff Area=22,535 sf 89.57% Impervious Runoff Depth=3.98"
Tc=5.0 min CN=92 Runoff=2.37 cfs 7,478 cf

Subcatchment DA3C: DA3C Runoff Area=3,473 sf 66.95% Impervious Runoff Depth=2.62"
Tc=5.0 min CN=78 Runoff=0.25 cfs 758 cf

Pond SWA: Stormtech SC-740 (SWM-A) Peak Elev=100.93' Storage=458 cf Inflow=0.97 cfs 3,332 cf
Discarded=0.31 cfs 3,332 cf Primary=0.00 cfs 0 cf Outflow=0.31 cfs 3,332 cf

Pond SWB: Stormtech SC-740 (SWM-B) Peak Elev=100.92' Storage=1,118 cf Inflow=2.37 cfs 7,478 cf
Discarded=0.75 cfs 7,478 cf Primary=0.00 cfs 0 cf Outflow=0.75 cfs 7,478 cf

Link 1L: DA3 Discharge Inflow=0.25 cfs 758 cf
Primary=0.25 cfs 758 cf

Link TSD: Total Site Discharge Inflow=0.37 cfs 1,312 cf
Primary=0.37 cfs 1,312 cf

Total Runoff Area = 45,484 sf Runoff Volume = 12,122 cf Average Runoff Depth = 3.20"
27.53% Pervious = 12,523 sf 72.47% Impervious = 32,961 sf

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Type III 24-hr 10-Year Rainfall=4.89"

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Summary for Subcatchment DA1: DA1

Runoff = 0.12 cfs @ 12.10 hrs, Volume= 514 cf, Depth= 0.75"

Routed to Link TSD : Total Site Discharge

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

Type III 24-hr 10-Year Rainfall=4.89"

Area (sf)	CN	Description
1,859	98	Paved roads w/curbs & sewers, HSG A
6,314	39	>75% Grass cover, Good, HSG A
8,173	52	Weighted Average
6,314		77.25% Pervious Area
1,859		22.75% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry, DIRECT

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Summary for Subcatchment DA2: DA2

Runoff = 0.00 cfs @ 12.48 hrs, Volume= 40 cf, Depth= 0.18"

Routed to Link TSD : Total Site Discharge

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

Type III 24-hr 10-Year Rainfall=4.89"

Area (sf)	CN	Description
2,711	39	>75% Grass cover, Good, HSG A
2,711		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry, DIRECT

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Summary for Subcatchment DA3A: DA3A

Runoff = 0.97 cfs @ 12.07 hrs, Volume= 3,332 cf, Depth= 4.65"

Routed to Pond SWA : Stormtech SC-740 (SWM-A)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

Type III 24-hr 10-Year Rainfall=4.89"

Area (sf)	CN	Description
8,592	98	Roofs, HSG A
8,592		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry, DIRECT

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Type III 24-hr 10-Year Rainfall=4.89"

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Summary for Subcatchment DA3B: DA3B

Runoff = 2.37 cfs @ 12.07 hrs, Volume= 7,478 cf, Depth= 3.98"

Routed to Pond SWB : Stormtech SC-740 (SWM-B)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

Type III 24-hr 10-Year Rainfall=4.89"

Area (sf)	CN	Description
20,185	98	Paved parking, HSG A
2,350	39	>75% Grass cover, Good, HSG A
22,535	92	Weighted Average
2,350		10.43% Pervious Area
20,185		89.57% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry, DIRECT

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Summary for Subcatchment DA3C: DA3C

Runoff = 0.25 cfs @ 12.08 hrs, Volume= 758 cf, Depth= 2.62"

Routed to Link 1L : DA3 Discharge

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

Type III 24-hr 10-Year Rainfall=4.89"

Area (sf)	CN	Description
2,325	98	Paved roads w/curbs & sewers, HSG A
1,148	39	>75% Grass cover, Good, HSG A
3,473	78	Weighted Average
1,148		33.05% Pervious Area
2,325		66.95% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry, DIRECT

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Summary for Pond SWA: Stormtech SC-740 (SWM-A)

Inflow Area = 8,592 sf, 100.00% Impervious, Inflow Depth = 4.65" for 10-Year event
 Inflow = 0.97 cfs @ 12.07 hrs, Volume= 3,332 cf
 Outflow = 0.31 cfs @ 11.82 hrs, Volume= 3,332 cf, Atten= 68%, Lag= 0.0 min
 Discarded = 0.31 cfs @ 11.82 hrs, Volume= 3,332 cf
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
 Routed to Link 1L : DA3 Discharge

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
 Peak Elev= 100.93' @ 12.35 hrs Surf.Area= 666 sf Storage= 458 cf

Plug-Flow detention time= 6.1 min calculated for 3,331 cf (100% of inflow)
 Center-of-Mass det. time= 6.1 min (753.6 - 747.5)

Volume	Invert	Avail.Storage	Storage Description
#1A	99.80'	639 cf	11.00'W x 60.58'L x 3.50'H Field A 2,332 cf Overall - 735 cf Embedded = 1,597 cf x 40.0% Voids
#2A	100.30'	735 cf	ADS_StormTech SC-740 +Cap x 16 Inside #1 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap 16 Chambers in 2 Rows
		1,374 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Primary	101.30'	12.0" Round Outlet Pipe L= 63.0' CPP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 101.30' / 100.90' S= 0.0063 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf
#2	Device 1	102.60'	4.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#3	Discarded	99.80'	20.000 in/hr Exfiltration over Surface area

Discarded OutFlow Max=0.31 cfs @ 11.82 hrs HW=99.84' (Free Discharge)
 ↑**3=Exfiltration** (Exfiltration Controls 0.31 cfs)

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=99.80' (Free Discharge)
 ↑**1=Outlet Pipe** (Controls 0.00 cfs)
 ↑**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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Type III 24-hr 10-Year Rainfall=4.89"

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Pond SWA: Stormtech SC-740 (SWM-A) - Chamber Wizard Field A

Chamber Model = ADS_StormTech SC-740 +Cap (ADS StormTech® SC-740 with cap length)

Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf

Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap

51.0" Wide + 6.0" Spacing = 57.0" C-C Row Spacing

8 Chambers/Row x 7.12' Long +0.81' Cap Length x 2 = 58.58' Row Length +12.0" End Stone x 2 = 60.58' Base Length

2 Rows x 51.0" Wide + 6.0" Spacing x 1 + 12.0" Side Stone x 2 = 11.00' Base Width

6.0" Stone Base + 30.0" Chamber Height + 6.0" Stone Cover = 3.50' Field Height

16 Chambers x 45.9 cf = 735.0 cf Chamber Storage

2,332.2 cf Field - 735.0 cf Chambers = 1,597.2 cf Stone x 40.0% Voids = 638.9 cf Stone Storage

Chamber Storage + Stone Storage = 1,373.9 cf = 0.032 af

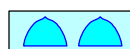
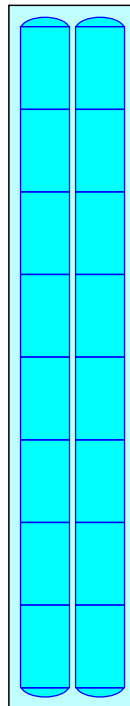
Overall Storage Efficiency = 58.9%

Overall System Size = 60.58' x 11.00' x 3.50'

16 Chambers

86.4 cy Field

59.2 cy Stone



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Stage-Discharge for Pond SWA: Stormtech SC-740 (SWM-A)

Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)	Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)
99.80	0.00	0.00	0.00	100.32	0.31	0.31	0.00
99.81	0.31	0.31	0.00	100.33	0.31	0.31	0.00
99.82	0.31	0.31	0.00	100.34	0.31	0.31	0.00
99.83	0.31	0.31	0.00	100.35	0.31	0.31	0.00
99.84	0.31	0.31	0.00	100.36	0.31	0.31	0.00
99.85	0.31	0.31	0.00	100.37	0.31	0.31	0.00
99.86	0.31	0.31	0.00	100.38	0.31	0.31	0.00
99.87	0.31	0.31	0.00	100.39	0.31	0.31	0.00
99.88	0.31	0.31	0.00	100.40	0.31	0.31	0.00
99.89	0.31	0.31	0.00	100.41	0.31	0.31	0.00
99.90	0.31	0.31	0.00	100.42	0.31	0.31	0.00
99.91	0.31	0.31	0.00	100.43	0.31	0.31	0.00
99.92	0.31	0.31	0.00	100.44	0.31	0.31	0.00
99.93	0.31	0.31	0.00	100.45	0.31	0.31	0.00
99.94	0.31	0.31	0.00	100.46	0.31	0.31	0.00
99.95	0.31	0.31	0.00	100.47	0.31	0.31	0.00
99.96	0.31	0.31	0.00	100.48	0.31	0.31	0.00
99.97	0.31	0.31	0.00	100.49	0.31	0.31	0.00
99.98	0.31	0.31	0.00	100.50	0.31	0.31	0.00
99.99	0.31	0.31	0.00	100.51	0.31	0.31	0.00
100.00	0.31	0.31	0.00	100.52	0.31	0.31	0.00
100.01	0.31	0.31	0.00	100.53	0.31	0.31	0.00
100.02	0.31	0.31	0.00	100.54	0.31	0.31	0.00
100.03	0.31	0.31	0.00	100.55	0.31	0.31	0.00
100.04	0.31	0.31	0.00	100.56	0.31	0.31	0.00
100.05	0.31	0.31	0.00	100.57	0.31	0.31	0.00
100.06	0.31	0.31	0.00	100.58	0.31	0.31	0.00
100.07	0.31	0.31	0.00	100.59	0.31	0.31	0.00
100.08	0.31	0.31	0.00	100.60	0.31	0.31	0.00
100.09	0.31	0.31	0.00	100.61	0.31	0.31	0.00
100.10	0.31	0.31	0.00	100.62	0.31	0.31	0.00
100.11	0.31	0.31	0.00	100.63	0.31	0.31	0.00
100.12	0.31	0.31	0.00	100.64	0.31	0.31	0.00
100.13	0.31	0.31	0.00	100.65	0.31	0.31	0.00
100.14	0.31	0.31	0.00	100.66	0.31	0.31	0.00
100.15	0.31	0.31	0.00	100.67	0.31	0.31	0.00
100.16	0.31	0.31	0.00	100.68	0.31	0.31	0.00
100.17	0.31	0.31	0.00	100.69	0.31	0.31	0.00
100.18	0.31	0.31	0.00	100.70	0.31	0.31	0.00
100.19	0.31	0.31	0.00	100.71	0.31	0.31	0.00
100.20	0.31	0.31	0.00	100.72	0.31	0.31	0.00
100.21	0.31	0.31	0.00	100.73	0.31	0.31	0.00
100.22	0.31	0.31	0.00	100.74	0.31	0.31	0.00
100.23	0.31	0.31	0.00	100.75	0.31	0.31	0.00
100.24	0.31	0.31	0.00	100.76	0.31	0.31	0.00
100.25	0.31	0.31	0.00	100.77	0.31	0.31	0.00
100.26	0.31	0.31	0.00	100.78	0.31	0.31	0.00
100.27	0.31	0.31	0.00	100.79	0.31	0.31	0.00
100.28	0.31	0.31	0.00	100.80	0.31	0.31	0.00
100.29	0.31	0.31	0.00	100.81	0.31	0.31	0.00
100.30	0.31	0.31	0.00	100.82	0.31	0.31	0.00
100.31	0.31	0.31	0.00	100.83	0.31	0.31	0.00

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Stage-Discharge for Pond SWA: Stormtech SC-740 (SWM-A) (continued)

Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)	Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)
100.84	0.31	0.31	0.00	101.36	0.31	0.31	0.00
100.85	0.31	0.31	0.00	101.37	0.31	0.31	0.00
100.86	0.31	0.31	0.00	101.38	0.31	0.31	0.00
100.87	0.31	0.31	0.00	101.39	0.31	0.31	0.00
100.88	0.31	0.31	0.00	101.40	0.31	0.31	0.00
100.89	0.31	0.31	0.00	101.41	0.31	0.31	0.00
100.90	0.31	0.31	0.00	101.42	0.31	0.31	0.00
100.91	0.31	0.31	0.00	101.43	0.31	0.31	0.00
100.92	0.31	0.31	0.00	101.44	0.31	0.31	0.00
100.93	0.31	0.31	0.00	101.45	0.31	0.31	0.00
100.94	0.31	0.31	0.00	101.46	0.31	0.31	0.00
100.95	0.31	0.31	0.00	101.47	0.31	0.31	0.00
100.96	0.31	0.31	0.00	101.48	0.31	0.31	0.00
100.97	0.31	0.31	0.00	101.49	0.31	0.31	0.00
100.98	0.31	0.31	0.00	101.50	0.31	0.31	0.00
100.99	0.31	0.31	0.00	101.51	0.31	0.31	0.00
101.00	0.31	0.31	0.00	101.52	0.31	0.31	0.00
101.01	0.31	0.31	0.00	101.53	0.31	0.31	0.00
101.02	0.31	0.31	0.00	101.54	0.31	0.31	0.00
101.03	0.31	0.31	0.00	101.55	0.31	0.31	0.00
101.04	0.31	0.31	0.00	101.56	0.31	0.31	0.00
101.05	0.31	0.31	0.00	101.57	0.31	0.31	0.00
101.06	0.31	0.31	0.00	101.58	0.31	0.31	0.00
101.07	0.31	0.31	0.00	101.59	0.31	0.31	0.00
101.08	0.31	0.31	0.00	101.60	0.31	0.31	0.00
101.09	0.31	0.31	0.00	101.61	0.31	0.31	0.00
101.10	0.31	0.31	0.00	101.62	0.31	0.31	0.00
101.11	0.31	0.31	0.00	101.63	0.31	0.31	0.00
101.12	0.31	0.31	0.00	101.64	0.31	0.31	0.00
101.13	0.31	0.31	0.00	101.65	0.31	0.31	0.00
101.14	0.31	0.31	0.00	101.66	0.31	0.31	0.00
101.15	0.31	0.31	0.00	101.67	0.31	0.31	0.00
101.16	0.31	0.31	0.00	101.68	0.31	0.31	0.00
101.17	0.31	0.31	0.00	101.69	0.31	0.31	0.00
101.18	0.31	0.31	0.00	101.70	0.31	0.31	0.00
101.19	0.31	0.31	0.00	101.71	0.31	0.31	0.00
101.20	0.31	0.31	0.00	101.72	0.31	0.31	0.00
101.21	0.31	0.31	0.00	101.73	0.31	0.31	0.00
101.22	0.31	0.31	0.00	101.74	0.31	0.31	0.00
101.23	0.31	0.31	0.00	101.75	0.31	0.31	0.00
101.24	0.31	0.31	0.00	101.76	0.31	0.31	0.00
101.25	0.31	0.31	0.00	101.77	0.31	0.31	0.00
101.26	0.31	0.31	0.00	101.78	0.31	0.31	0.00
101.27	0.31	0.31	0.00	101.79	0.31	0.31	0.00
101.28	0.31	0.31	0.00	101.80	0.31	0.31	0.00
101.29	0.31	0.31	0.00	101.81	0.31	0.31	0.00
101.30	0.31	0.31	0.00	101.82	0.31	0.31	0.00
101.31	0.31	0.31	0.00	101.83	0.31	0.31	0.00
101.32	0.31	0.31	0.00	101.84	0.31	0.31	0.00
101.33	0.31	0.31	0.00	101.85	0.31	0.31	0.00
101.34	0.31	0.31	0.00	101.86	0.31	0.31	0.00
101.35	0.31	0.31	0.00	101.87	0.31	0.31	0.00

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Type III 24-hr 10-Year Rainfall=4.89"

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Stage-Discharge for Pond SWA: Stormtech SC-740 (SWM-A) (continued)

Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)	Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)
101.88	0.31	0.31	0.00	102.40	0.31	0.31	0.00
101.89	0.31	0.31	0.00	102.41	0.31	0.31	0.00
101.90	0.31	0.31	0.00	102.42	0.31	0.31	0.00
101.91	0.31	0.31	0.00	102.43	0.31	0.31	0.00
101.92	0.31	0.31	0.00	102.44	0.31	0.31	0.00
101.93	0.31	0.31	0.00	102.45	0.31	0.31	0.00
101.94	0.31	0.31	0.00	102.46	0.31	0.31	0.00
101.95	0.31	0.31	0.00	102.47	0.31	0.31	0.00
101.96	0.31	0.31	0.00	102.48	0.31	0.31	0.00
101.97	0.31	0.31	0.00	102.49	0.31	0.31	0.00
101.98	0.31	0.31	0.00	102.50	0.31	0.31	0.00
101.99	0.31	0.31	0.00	102.51	0.31	0.31	0.00
102.00	0.31	0.31	0.00	102.52	0.31	0.31	0.00
102.01	0.31	0.31	0.00	102.53	0.31	0.31	0.00
102.02	0.31	0.31	0.00	102.54	0.31	0.31	0.00
102.03	0.31	0.31	0.00	102.55	0.31	0.31	0.00
102.04	0.31	0.31	0.00	102.56	0.31	0.31	0.00
102.05	0.31	0.31	0.00	102.57	0.31	0.31	0.00
102.06	0.31	0.31	0.00	102.58	0.31	0.31	0.00
102.07	0.31	0.31	0.00	102.59	0.31	0.31	0.00
102.08	0.31	0.31	0.00	102.60	0.31	0.31	0.00
102.09	0.31	0.31	0.00	102.61	0.32	0.31	0.01
102.10	0.31	0.31	0.00	102.62	0.34	0.31	0.03
102.11	0.31	0.31	0.00	102.63	0.37	0.31	0.06
102.12	0.31	0.31	0.00	102.64	0.40	0.31	0.09
102.13	0.31	0.31	0.00	102.65	0.43	0.31	0.13
102.14	0.31	0.31	0.00	102.66	0.47	0.31	0.16
102.15	0.31	0.31	0.00	102.67	0.52	0.31	0.21
102.16	0.31	0.31	0.00	102.68	0.56	0.31	0.25
102.17	0.31	0.31	0.00	102.69	0.61	0.31	0.30
102.18	0.31	0.31	0.00	102.70	0.66	0.31	0.35
102.19	0.31	0.31	0.00	102.71	0.72	0.31	0.41
102.20	0.31	0.31	0.00	102.72	0.77	0.31	0.47
102.21	0.31	0.31	0.00	102.73	0.83	0.31	0.52
102.22	0.31	0.31	0.00	102.74	0.90	0.31	0.59
102.23	0.31	0.31	0.00	102.75	0.96	0.31	0.65
102.24	0.31	0.31	0.00	102.76	1.03	0.31	0.72
102.25	0.31	0.31	0.00	102.77	1.09	0.31	0.79
102.26	0.31	0.31	0.00	102.78	1.16	0.31	0.86
102.27	0.31	0.31	0.00	102.79	1.24	0.31	0.93
102.28	0.31	0.31	0.00	102.80	1.31	0.31	1.00
102.29	0.31	0.31	0.00	102.81	1.39	0.31	1.08
102.30	0.31	0.31	0.00	102.82	1.47	0.31	1.16
102.31	0.31	0.31	0.00	102.83	1.55	0.31	1.24
102.32	0.31	0.31	0.00	102.84	1.64	0.31	1.33
102.33	0.31	0.31	0.00	102.85	1.72	0.31	1.41
102.34	0.31	0.31	0.00	102.86	1.81	0.31	1.50
102.35	0.31	0.31	0.00	102.87	1.90	0.31	1.59
102.36	0.31	0.31	0.00	102.88	2.00	0.31	1.69
102.37	0.31	0.31	0.00	102.89	2.09	0.31	1.78
102.38	0.31	0.31	0.00	102.90	2.19	0.31	1.88
102.39	0.31	0.31	0.00	102.91	2.29	0.31	1.98

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Type III 24-hr 10-Year Rainfall=4.89"

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Stage-Discharge for Pond SWA: Stormtech SC-740 (SWM-A) (continued)

Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)
102.92	2.39	0.31	2.08
102.93	2.49	0.31	2.18
102.94	2.60	0.31	2.29
102.95	2.70	0.31	2.39
102.96	2.81	0.31	2.50
102.97	2.92	0.31	2.61
102.98	3.03	0.31	2.72
102.99	3.15	0.31	2.84
103.00	3.26	0.31	2.95
103.01	3.38	0.31	3.07
103.02	3.51	0.31	3.20
103.03	3.63	0.31	3.32
103.04	3.75	0.31	3.45
103.05	3.88	0.31	3.57
103.06	4.01	0.31	3.70
103.07	4.13	0.31	3.82
103.08	4.14	0.31	3.84
103.09	4.16	0.31	3.85
103.10	4.18	0.31	3.87
103.11	4.19	0.31	3.88
103.12	4.21	0.31	3.90
103.13	4.23	0.31	3.92
103.14	4.24	0.31	3.93
103.15	4.26	0.31	3.95
103.16	4.27	0.31	3.96
103.17	4.29	0.31	3.98
103.18	4.30	0.31	4.00
103.19	4.32	0.31	4.01
103.20	4.33	0.31	4.03
103.21	4.35	0.31	4.04
103.22	4.37	0.31	4.06
103.23	4.38	0.31	4.07
103.24	4.40	0.31	4.09
103.25	4.41	0.31	4.10
103.26	4.43	0.31	4.12
103.27	4.44	0.31	4.13
103.28	4.46	0.31	4.15
103.29	4.47	0.31	4.16
103.30	4.49	0.31	4.18

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Stage-Area-Storage for Pond SWA: Stormtech SC-740 (SWM-A)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
99.80	666	0	100.32	666	144
99.81	666	3	100.33	666	149
99.82	666	5	100.34	666	154
99.83	666	8	100.35	666	159
99.84	666	11	100.36	666	165
99.85	666	13	100.37	666	170
99.86	666	16	100.38	666	175
99.87	666	19	100.39	666	180
99.88	666	21	100.40	666	185
99.89	666	24	100.41	666	191
99.90	666	27	100.42	666	196
99.91	666	29	100.43	666	201
99.92	666	32	100.44	666	206
99.93	666	35	100.45	666	211
99.94	666	37	100.46	666	216
99.95	666	40	100.47	666	222
99.96	666	43	100.48	666	227
99.97	666	45	100.49	666	232
99.98	666	48	100.50	666	237
99.99	666	51	100.51	666	242
100.00	666	53	100.52	666	248
100.01	666	56	100.53	666	253
100.02	666	59	100.54	666	258
100.03	666	61	100.55	666	263
100.04	666	64	100.56	666	268
100.05	666	67	100.57	666	273
100.06	666	69	100.58	666	279
100.07	666	72	100.59	666	284
100.08	666	75	100.60	666	289
100.09	666	77	100.61	666	294
100.10	666	80	100.62	666	299
100.11	666	83	100.63	666	304
100.12	666	85	100.64	666	309
100.13	666	88	100.65	666	315
100.14	666	91	100.66	666	320
100.15	666	93	100.67	666	325
100.16	666	96	100.68	666	330
100.17	666	99	100.69	666	335
100.18	666	101	100.70	666	340
100.19	666	104	100.71	666	345
100.20	666	107	100.72	666	350
100.21	666	109	100.73	666	355
100.22	666	112	100.74	666	361
100.23	666	115	100.75	666	366
100.24	666	117	100.76	666	371
100.25	666	120	100.77	666	376
100.26	666	123	100.78	666	381
100.27	666	125	100.79	666	386
100.28	666	128	100.80	666	391
100.29	666	131	100.81	666	396
100.30	666	133	100.82	666	401
100.31	666	138	100.83	666	406

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Stage-Area-Storage for Pond SWA: Stormtech SC-740 (SWM-A) (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
100.84	666	411	101.36	666	668
100.85	666	416	101.37	666	672
100.86	666	421	101.38	666	677
100.87	666	426	101.39	666	682
100.88	666	431	101.40	666	687
100.89	666	437	101.41	666	692
100.90	666	442	101.42	666	696
100.91	666	447	101.43	666	701
100.92	666	452	101.44	666	706
100.93	666	457	101.45	666	710
100.94	666	462	101.46	666	715
100.95	666	467	101.47	666	720
100.96	666	472	101.48	666	725
100.97	666	477	101.49	666	729
100.98	666	482	101.50	666	734
100.99	666	487	101.51	666	739
101.00	666	492	101.52	666	743
101.01	666	497	101.53	666	748
101.02	666	502	101.54	666	753
101.03	666	507	101.55	666	757
101.04	666	512	101.56	666	762
101.05	666	516	101.57	666	767
101.06	666	521	101.58	666	771
101.07	666	526	101.59	666	776
101.08	666	531	101.60	666	781
101.09	666	536	101.61	666	785
101.10	666	541	101.62	666	790
101.11	666	546	101.63	666	794
101.12	666	551	101.64	666	799
101.13	666	556	101.65	666	804
101.14	666	561	101.66	666	808
101.15	666	566	101.67	666	813
101.16	666	571	101.68	666	817
101.17	666	576	101.69	666	822
101.18	666	581	101.70	666	826
101.19	666	585	101.71	666	831
101.20	666	590	101.72	666	835
101.21	666	595	101.73	666	840
101.22	666	600	101.74	666	844
101.23	666	605	101.75	666	849
101.24	666	610	101.76	666	853
101.25	666	615	101.77	666	858
101.26	666	619	101.78	666	862
101.27	666	624	101.79	666	867
101.28	666	629	101.80	666	871
101.29	666	634	101.81	666	876
101.30	666	639	101.82	666	880
101.31	666	644	101.83	666	885
101.32	666	648	101.84	666	889
101.33	666	653	101.85	666	893
101.34	666	658	101.86	666	898
101.35	666	663	101.87	666	902

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Stage-Area-Storage for Pond SWA: Stormtech SC-740 (SWM-A) (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
101.88	666	907	102.40	666	1,117
101.89	666	911	102.41	666	1,121
101.90	666	915	102.42	666	1,124
101.91	666	920	102.43	666	1,128
101.92	666	924	102.44	666	1,132
101.93	666	928	102.45	666	1,135
101.94	666	933	102.46	666	1,139
101.95	666	937	102.47	666	1,142
101.96	666	941	102.48	666	1,146
101.97	666	946	102.49	666	1,149
101.98	666	950	102.50	666	1,152
101.99	666	954	102.51	666	1,156
102.00	666	958	102.52	666	1,159
102.01	666	963	102.53	666	1,162
102.02	666	967	102.54	666	1,165
102.03	666	971	102.55	666	1,169
102.04	666	975	102.56	666	1,172
102.05	666	979	102.57	666	1,175
102.06	666	984	102.58	666	1,178
102.07	666	988	102.59	666	1,181
102.08	666	992	102.60	666	1,184
102.09	666	996	102.61	666	1,187
102.10	666	1,000	102.62	666	1,190
102.11	666	1,004	102.63	666	1,193
102.12	666	1,008	102.64	666	1,196
102.13	666	1,012	102.65	666	1,199
102.14	666	1,016	102.66	666	1,202
102.15	666	1,021	102.67	666	1,205
102.16	666	1,025	102.68	666	1,208
102.17	666	1,029	102.69	666	1,210
102.18	666	1,033	102.70	666	1,213
102.19	666	1,037	102.71	666	1,216
102.20	666	1,041	102.72	666	1,219
102.21	666	1,045	102.73	666	1,222
102.22	666	1,049	102.74	666	1,224
102.23	666	1,053	102.75	666	1,227
102.24	666	1,056	102.76	666	1,230
102.25	666	1,060	102.77	666	1,233
102.26	666	1,064	102.78	666	1,235
102.27	666	1,068	102.79	666	1,238
102.28	666	1,072	102.80	666	1,241
102.29	666	1,076	102.81	666	1,243
102.30	666	1,080	102.82	666	1,246
102.31	666	1,084	102.83	666	1,249
102.32	666	1,087	102.84	666	1,251
102.33	666	1,091	102.85	666	1,254
102.34	666	1,095	102.86	666	1,257
102.35	666	1,099	102.87	666	1,259
102.36	666	1,102	102.88	666	1,262
102.37	666	1,106	102.89	666	1,265
102.38	666	1,110	102.90	666	1,267
102.39	666	1,114	102.91	666	1,270

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Stage-Area-Storage for Pond SWA: Stormtech SC-740 (SWM-A) (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
102.92	666	1,273
102.93	666	1,275
102.94	666	1,278
102.95	666	1,281
102.96	666	1,283
102.97	666	1,286
102.98	666	1,289
102.99	666	1,291
103.00	666	1,294
103.01	666	1,297
103.02	666	1,299
103.03	666	1,302
103.04	666	1,305
103.05	666	1,307
103.06	666	1,310
103.07	666	1,313
103.08	666	1,315
103.09	666	1,318
103.10	666	1,321
103.11	666	1,323
103.12	666	1,326
103.13	666	1,329
103.14	666	1,331
103.15	666	1,334
103.16	666	1,337
103.17	666	1,339
103.18	666	1,342
103.19	666	1,345
103.20	666	1,347
103.21	666	1,350
103.22	666	1,353
103.23	666	1,355
103.24	666	1,358
103.25	666	1,361
103.26	666	1,363
103.27	666	1,366
103.28	666	1,369
103.29	666	1,371
103.30	666	1,374

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Summary for Pond SWB: Stormtech SC-740 (SWM-B)

Inflow Area = 22,535 sf, 89.57% Impervious, Inflow Depth = 3.98" for 10-Year event
 Inflow = 2.37 cfs @ 12.07 hrs, Volume= 7,478 cf
 Outflow = 0.75 cfs @ 11.84 hrs, Volume= 7,478 cf, Atten= 69%, Lag= 0.0 min
 Discarded = 0.75 cfs @ 11.84 hrs, Volume= 7,478 cf
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
 Routed to Link 1L : DA3 Discharge

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
 Peak Elev= 100.92' @ 12.36 hrs Surf.Area= 1,610 sf Storage= 1,118 cf

Plug-Flow detention time= 6.7 min calculated for 7,476 cf (100% of inflow)
 Center-of-Mass det. time= 6.7 min (789.2 - 782.5)

Volume	Invert	Avail.Storage	Storage Description
#1A	99.80'	1,482 cf	34.75'W x 46.34'L x 3.50'H Field A 5,636 cf Overall - 1,929 cf Embedded = 3,706 cf x 40.0% Voids
#2A	100.30'	1,929 cf	ADS_StormTech SC-740 +Cap x 42 Inside #1 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap 42 Chambers in 7 Rows
		3,412 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Primary	101.30'	12.0" Round Outlet Pipe L= 63.0' CPP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 101.30' / 100.90' S= 0.0063 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf
#2	Device 1	102.60'	4.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#3	Discarded	99.80'	20.000 in/hr Exfiltration over Surface area

Discarded OutFlow Max=0.75 cfs @ 11.84 hrs HW=99.84' (Free Discharge)
 ↑**3=Exfiltration** (Exfiltration Controls 0.75 cfs)

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=99.80' (Free Discharge)
 ↑**1=Outlet Pipe** (Controls 0.00 cfs)
 ↑**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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Pond SWB: Stormtech SC-740 (SWM-B) - Chamber Wizard Field A

Chamber Model = ADS_StormTech SC-740 +Cap (ADS StormTech® SC-740 with cap length)

Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf

Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap

51.0" Wide + 6.0" Spacing = 57.0" C-C Row Spacing

6 Chambers/Row x 7.12' Long +0.81' Cap Length x 2 = 44.34' Row Length +12.0" End Stone x 2 = 46.34' Base Length

7 Rows x 51.0" Wide + 6.0" Spacing x 6 + 12.0" Side Stone x 2 = 34.75' Base Width

6.0" Stone Base + 30.0" Chamber Height + 6.0" Stone Cover = 3.50' Field Height

42 Chambers x 45.9 cf = 1,929.5 cf Chamber Storage

5,635.7 cf Field - 1,929.5 cf Chambers = 3,706.2 cf Stone x 40.0% Voids = 1,482.5 cf Stone Storage

Chamber Storage + Stone Storage = 3,412.0 cf = 0.078 af

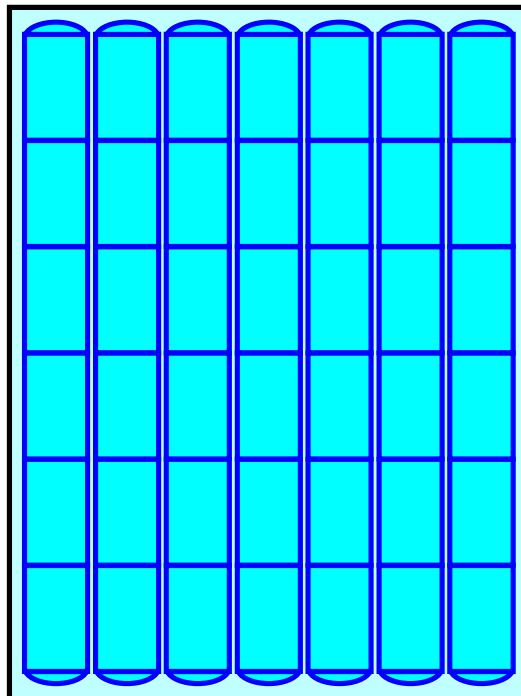
Overall Storage Efficiency = 60.5%

Overall System Size = 46.34' x 34.75' x 3.50'

42 Chambers

208.7 cy Field

137.3 cy Stone



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Stage-Discharge for Pond SWB: Stormtech SC-740 (SWM-B)

Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)	Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)
99.80	0.00	0.00	0.00	100.32	0.75	0.75	0.00
99.81	0.75	0.75	0.00	100.33	0.75	0.75	0.00
99.82	0.75	0.75	0.00	100.34	0.75	0.75	0.00
99.83	0.75	0.75	0.00	100.35	0.75	0.75	0.00
99.84	0.75	0.75	0.00	100.36	0.75	0.75	0.00
99.85	0.75	0.75	0.00	100.37	0.75	0.75	0.00
99.86	0.75	0.75	0.00	100.38	0.75	0.75	0.00
99.87	0.75	0.75	0.00	100.39	0.75	0.75	0.00
99.88	0.75	0.75	0.00	100.40	0.75	0.75	0.00
99.89	0.75	0.75	0.00	100.41	0.75	0.75	0.00
99.90	0.75	0.75	0.00	100.42	0.75	0.75	0.00
99.91	0.75	0.75	0.00	100.43	0.75	0.75	0.00
99.92	0.75	0.75	0.00	100.44	0.75	0.75	0.00
99.93	0.75	0.75	0.00	100.45	0.75	0.75	0.00
99.94	0.75	0.75	0.00	100.46	0.75	0.75	0.00
99.95	0.75	0.75	0.00	100.47	0.75	0.75	0.00
99.96	0.75	0.75	0.00	100.48	0.75	0.75	0.00
99.97	0.75	0.75	0.00	100.49	0.75	0.75	0.00
99.98	0.75	0.75	0.00	100.50	0.75	0.75	0.00
99.99	0.75	0.75	0.00	100.51	0.75	0.75	0.00
100.00	0.75	0.75	0.00	100.52	0.75	0.75	0.00
100.01	0.75	0.75	0.00	100.53	0.75	0.75	0.00
100.02	0.75	0.75	0.00	100.54	0.75	0.75	0.00
100.03	0.75	0.75	0.00	100.55	0.75	0.75	0.00
100.04	0.75	0.75	0.00	100.56	0.75	0.75	0.00
100.05	0.75	0.75	0.00	100.57	0.75	0.75	0.00
100.06	0.75	0.75	0.00	100.58	0.75	0.75	0.00
100.07	0.75	0.75	0.00	100.59	0.75	0.75	0.00
100.08	0.75	0.75	0.00	100.60	0.75	0.75	0.00
100.09	0.75	0.75	0.00	100.61	0.75	0.75	0.00
100.10	0.75	0.75	0.00	100.62	0.75	0.75	0.00
100.11	0.75	0.75	0.00	100.63	0.75	0.75	0.00
100.12	0.75	0.75	0.00	100.64	0.75	0.75	0.00
100.13	0.75	0.75	0.00	100.65	0.75	0.75	0.00
100.14	0.75	0.75	0.00	100.66	0.75	0.75	0.00
100.15	0.75	0.75	0.00	100.67	0.75	0.75	0.00
100.16	0.75	0.75	0.00	100.68	0.75	0.75	0.00
100.17	0.75	0.75	0.00	100.69	0.75	0.75	0.00
100.18	0.75	0.75	0.00	100.70	0.75	0.75	0.00
100.19	0.75	0.75	0.00	100.71	0.75	0.75	0.00
100.20	0.75	0.75	0.00	100.72	0.75	0.75	0.00
100.21	0.75	0.75	0.00	100.73	0.75	0.75	0.00
100.22	0.75	0.75	0.00	100.74	0.75	0.75	0.00
100.23	0.75	0.75	0.00	100.75	0.75	0.75	0.00
100.24	0.75	0.75	0.00	100.76	0.75	0.75	0.00
100.25	0.75	0.75	0.00	100.77	0.75	0.75	0.00
100.26	0.75	0.75	0.00	100.78	0.75	0.75	0.00
100.27	0.75	0.75	0.00	100.79	0.75	0.75	0.00
100.28	0.75	0.75	0.00	100.80	0.75	0.75	0.00
100.29	0.75	0.75	0.00	100.81	0.75	0.75	0.00
100.30	0.75	0.75	0.00	100.82	0.75	0.75	0.00
100.31	0.75	0.75	0.00	100.83	0.75	0.75	0.00

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Stage-Discharge for Pond SWB: Stormtech SC-740 (SWM-B) (continued)

Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)	Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)
100.84	0.75	0.75	0.00	101.36	0.75	0.75	0.00
100.85	0.75	0.75	0.00	101.37	0.75	0.75	0.00
100.86	0.75	0.75	0.00	101.38	0.75	0.75	0.00
100.87	0.75	0.75	0.00	101.39	0.75	0.75	0.00
100.88	0.75	0.75	0.00	101.40	0.75	0.75	0.00
100.89	0.75	0.75	0.00	101.41	0.75	0.75	0.00
100.90	0.75	0.75	0.00	101.42	0.75	0.75	0.00
100.91	0.75	0.75	0.00	101.43	0.75	0.75	0.00
100.92	0.75	0.75	0.00	101.44	0.75	0.75	0.00
100.93	0.75	0.75	0.00	101.45	0.75	0.75	0.00
100.94	0.75	0.75	0.00	101.46	0.75	0.75	0.00
100.95	0.75	0.75	0.00	101.47	0.75	0.75	0.00
100.96	0.75	0.75	0.00	101.48	0.75	0.75	0.00
100.97	0.75	0.75	0.00	101.49	0.75	0.75	0.00
100.98	0.75	0.75	0.00	101.50	0.75	0.75	0.00
100.99	0.75	0.75	0.00	101.51	0.75	0.75	0.00
101.00	0.75	0.75	0.00	101.52	0.75	0.75	0.00
101.01	0.75	0.75	0.00	101.53	0.75	0.75	0.00
101.02	0.75	0.75	0.00	101.54	0.75	0.75	0.00
101.03	0.75	0.75	0.00	101.55	0.75	0.75	0.00
101.04	0.75	0.75	0.00	101.56	0.75	0.75	0.00
101.05	0.75	0.75	0.00	101.57	0.75	0.75	0.00
101.06	0.75	0.75	0.00	101.58	0.75	0.75	0.00
101.07	0.75	0.75	0.00	101.59	0.75	0.75	0.00
101.08	0.75	0.75	0.00	101.60	0.75	0.75	0.00
101.09	0.75	0.75	0.00	101.61	0.75	0.75	0.00
101.10	0.75	0.75	0.00	101.62	0.75	0.75	0.00
101.11	0.75	0.75	0.00	101.63	0.75	0.75	0.00
101.12	0.75	0.75	0.00	101.64	0.75	0.75	0.00
101.13	0.75	0.75	0.00	101.65	0.75	0.75	0.00
101.14	0.75	0.75	0.00	101.66	0.75	0.75	0.00
101.15	0.75	0.75	0.00	101.67	0.75	0.75	0.00
101.16	0.75	0.75	0.00	101.68	0.75	0.75	0.00
101.17	0.75	0.75	0.00	101.69	0.75	0.75	0.00
101.18	0.75	0.75	0.00	101.70	0.75	0.75	0.00
101.19	0.75	0.75	0.00	101.71	0.75	0.75	0.00
101.20	0.75	0.75	0.00	101.72	0.75	0.75	0.00
101.21	0.75	0.75	0.00	101.73	0.75	0.75	0.00
101.22	0.75	0.75	0.00	101.74	0.75	0.75	0.00
101.23	0.75	0.75	0.00	101.75	0.75	0.75	0.00
101.24	0.75	0.75	0.00	101.76	0.75	0.75	0.00
101.25	0.75	0.75	0.00	101.77	0.75	0.75	0.00
101.26	0.75	0.75	0.00	101.78	0.75	0.75	0.00
101.27	0.75	0.75	0.00	101.79	0.75	0.75	0.00
101.28	0.75	0.75	0.00	101.80	0.75	0.75	0.00
101.29	0.75	0.75	0.00	101.81	0.75	0.75	0.00
101.30	0.75	0.75	0.00	101.82	0.75	0.75	0.00
101.31	0.75	0.75	0.00	101.83	0.75	0.75	0.00
101.32	0.75	0.75	0.00	101.84	0.75	0.75	0.00
101.33	0.75	0.75	0.00	101.85	0.75	0.75	0.00
101.34	0.75	0.75	0.00	101.86	0.75	0.75	0.00
101.35	0.75	0.75	0.00	101.87	0.75	0.75	0.00

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Stage-Discharge for Pond SWB: Stormtech SC-740 (SWM-B) (continued)

Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)	Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)
101.88	0.75	0.75	0.00	102.40	0.75	0.75	0.00
101.89	0.75	0.75	0.00	102.41	0.75	0.75	0.00
101.90	0.75	0.75	0.00	102.42	0.75	0.75	0.00
101.91	0.75	0.75	0.00	102.43	0.75	0.75	0.00
101.92	0.75	0.75	0.00	102.44	0.75	0.75	0.00
101.93	0.75	0.75	0.00	102.45	0.75	0.75	0.00
101.94	0.75	0.75	0.00	102.46	0.75	0.75	0.00
101.95	0.75	0.75	0.00	102.47	0.75	0.75	0.00
101.96	0.75	0.75	0.00	102.48	0.75	0.75	0.00
101.97	0.75	0.75	0.00	102.49	0.75	0.75	0.00
101.98	0.75	0.75	0.00	102.50	0.75	0.75	0.00
101.99	0.75	0.75	0.00	102.51	0.75	0.75	0.00
102.00	0.75	0.75	0.00	102.52	0.75	0.75	0.00
102.01	0.75	0.75	0.00	102.53	0.75	0.75	0.00
102.02	0.75	0.75	0.00	102.54	0.75	0.75	0.00
102.03	0.75	0.75	0.00	102.55	0.75	0.75	0.00
102.04	0.75	0.75	0.00	102.56	0.75	0.75	0.00
102.05	0.75	0.75	0.00	102.57	0.75	0.75	0.00
102.06	0.75	0.75	0.00	102.58	0.75	0.75	0.00
102.07	0.75	0.75	0.00	102.59	0.75	0.75	0.00
102.08	0.75	0.75	0.00	102.60	0.75	0.75	0.00
102.09	0.75	0.75	0.00	102.61	0.76	0.75	0.01
102.10	0.75	0.75	0.00	102.62	0.78	0.75	0.03
102.11	0.75	0.75	0.00	102.63	0.80	0.75	0.06
102.12	0.75	0.75	0.00	102.64	0.84	0.75	0.09
102.13	0.75	0.75	0.00	102.65	0.87	0.75	0.13
102.14	0.75	0.75	0.00	102.66	0.91	0.75	0.16
102.15	0.75	0.75	0.00	102.67	0.95	0.75	0.21
102.16	0.75	0.75	0.00	102.68	1.00	0.75	0.25
102.17	0.75	0.75	0.00	102.69	1.05	0.75	0.30
102.18	0.75	0.75	0.00	102.70	1.10	0.75	0.35
102.19	0.75	0.75	0.00	102.71	1.15	0.75	0.41
102.20	0.75	0.75	0.00	102.72	1.21	0.75	0.47
102.21	0.75	0.75	0.00	102.73	1.27	0.75	0.52
102.22	0.75	0.75	0.00	102.74	1.33	0.75	0.59
102.23	0.75	0.75	0.00	102.75	1.40	0.75	0.65
102.24	0.75	0.75	0.00	102.76	1.46	0.75	0.72
102.25	0.75	0.75	0.00	102.77	1.53	0.75	0.79
102.26	0.75	0.75	0.00	102.78	1.60	0.75	0.86
102.27	0.75	0.75	0.00	102.79	1.67	0.75	0.93
102.28	0.75	0.75	0.00	102.80	1.75	0.75	1.00
102.29	0.75	0.75	0.00	102.81	1.83	0.75	1.08
102.30	0.75	0.75	0.00	102.82	1.91	0.75	1.16
102.31	0.75	0.75	0.00	102.83	1.99	0.75	1.24
102.32	0.75	0.75	0.00	102.84	2.07	0.75	1.33
102.33	0.75	0.75	0.00	102.85	2.16	0.75	1.41
102.34	0.75	0.75	0.00	102.86	2.25	0.75	1.50
102.35	0.75	0.75	0.00	102.87	2.34	0.75	1.59
102.36	0.75	0.75	0.00	102.88	2.43	0.75	1.69
102.37	0.75	0.75	0.00	102.89	2.53	0.75	1.78
102.38	0.75	0.75	0.00	102.90	2.63	0.75	1.88
102.39	0.75	0.75	0.00	102.91	2.72	0.75	1.98

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Stage-Discharge for Pond SWB: Stormtech SC-740 (SWM-B) (continued)

Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)
102.92	2.83	0.75	2.08
102.93	2.93	0.75	2.18
102.94	3.03	0.75	2.29
102.95	3.14	0.75	2.39
102.96	3.25	0.75	2.50
102.97	3.36	0.75	2.61
102.98	3.47	0.75	2.72
102.99	3.58	0.75	2.84
103.00	3.70	0.75	2.95
103.01	3.82	0.75	3.07
103.02	3.94	0.75	3.20
103.03	4.07	0.75	3.32
103.04	4.19	0.75	3.45
103.05	4.32	0.75	3.57
103.06	4.45	0.75	3.70
103.07	4.57	0.75	3.82
103.08	4.58	0.75	3.84
103.09	4.60	0.75	3.85
103.10	4.61	0.75	3.87
103.11	4.63	0.75	3.88
103.12	4.65	0.75	3.90
103.13	4.66	0.75	3.92
103.14	4.68	0.75	3.93
103.15	4.69	0.75	3.95
103.16	4.71	0.75	3.96
103.17	4.73	0.75	3.98
103.18	4.74	0.75	4.00
103.19	4.76	0.75	4.01
103.20	4.77	0.75	4.03
103.21	4.79	0.75	4.04
103.22	4.80	0.75	4.06
103.23	4.82	0.75	4.07
103.24	4.83	0.75	4.09
103.25	4.85	0.75	4.10
103.26	4.86	0.75	4.12
103.27	4.88	0.75	4.13
103.28	4.89	0.75	4.15
103.29	4.91	0.75	4.16
103.30	4.92	0.75	4.18

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Stage-Area-Storage for Pond SWB: Stormtech SC-740 (SWM-B)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
99.80	1,610	0	100.32	1,610	348
99.81	1,610	6	100.33	1,610	361
99.82	1,610	13	100.34	1,610	374
99.83	1,610	19	100.35	1,610	388
99.84	1,610	26	100.36	1,610	401
99.85	1,610	32	100.37	1,610	414
99.86	1,610	39	100.38	1,610	427
99.87	1,610	45	100.39	1,610	440
99.88	1,610	52	100.40	1,610	453
99.89	1,610	58	100.41	1,610	466
99.90	1,610	64	100.42	1,610	479
99.91	1,610	71	100.43	1,610	492
99.92	1,610	77	100.44	1,610	505
99.93	1,610	84	100.45	1,610	519
99.94	1,610	90	100.46	1,610	532
99.95	1,610	97	100.47	1,610	545
99.96	1,610	103	100.48	1,610	558
99.97	1,610	109	100.49	1,610	571
99.98	1,610	116	100.50	1,610	584
99.99	1,610	122	100.51	1,610	597
100.00	1,610	129	100.52	1,610	610
100.01	1,610	135	100.53	1,610	623
100.02	1,610	142	100.54	1,610	636
100.03	1,610	148	100.55	1,610	649
100.04	1,610	155	100.56	1,610	662
100.05	1,610	161	100.57	1,610	675
100.06	1,610	167	100.58	1,610	688
100.07	1,610	174	100.59	1,610	701
100.08	1,610	180	100.60	1,610	714
100.09	1,610	187	100.61	1,610	727
100.10	1,610	193	100.62	1,610	740
100.11	1,610	200	100.63	1,610	753
100.12	1,610	206	100.64	1,610	765
100.13	1,610	213	100.65	1,610	778
100.14	1,610	219	100.66	1,610	791
100.15	1,610	225	100.67	1,610	804
100.16	1,610	232	100.68	1,610	817
100.17	1,610	238	100.69	1,610	830
100.18	1,610	245	100.70	1,610	843
100.19	1,610	251	100.71	1,610	856
100.20	1,610	258	100.72	1,610	869
100.21	1,610	264	100.73	1,610	881
100.22	1,610	271	100.74	1,610	894
100.23	1,610	277	100.75	1,610	907
100.24	1,610	283	100.76	1,610	920
100.25	1,610	290	100.77	1,610	933
100.26	1,610	296	100.78	1,610	945
100.27	1,610	303	100.79	1,610	958
100.28	1,610	309	100.80	1,610	971
100.29	1,610	316	100.81	1,610	984
100.30	1,610	322	100.82	1,610	996
100.31	1,610	335	100.83	1,610	1,009

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Stage-Area-Storage for Pond SWB: Stormtech SC-740 (SWM-B) (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
100.84	1,610	1,022	101.36	1,610	1,666
100.85	1,610	1,035	101.37	1,610	1,678
100.86	1,610	1,047	101.38	1,610	1,690
100.87	1,610	1,060	101.39	1,610	1,702
100.88	1,610	1,073	101.40	1,610	1,714
100.89	1,610	1,085	101.41	1,610	1,726
100.90	1,610	1,098	101.42	1,610	1,738
100.91	1,610	1,111	101.43	1,610	1,750
100.92	1,610	1,123	101.44	1,610	1,761
100.93	1,610	1,136	101.45	1,610	1,773
100.94	1,610	1,148	101.46	1,610	1,785
100.95	1,610	1,161	101.47	1,610	1,797
100.96	1,610	1,174	101.48	1,610	1,809
100.97	1,610	1,186	101.49	1,610	1,821
100.98	1,610	1,199	101.50	1,610	1,832
100.99	1,610	1,211	101.51	1,610	1,844
101.00	1,610	1,224	101.52	1,610	1,856
101.01	1,610	1,236	101.53	1,610	1,867
101.02	1,610	1,249	101.54	1,610	1,879
101.03	1,610	1,261	101.55	1,610	1,891
101.04	1,610	1,274	101.56	1,610	1,902
101.05	1,610	1,286	101.57	1,610	1,914
101.06	1,610	1,299	101.58	1,610	1,926
101.07	1,610	1,311	101.59	1,610	1,937
101.08	1,610	1,324	101.60	1,610	1,949
101.09	1,610	1,336	101.61	1,610	1,960
101.10	1,610	1,348	101.62	1,610	1,972
101.11	1,610	1,361	101.63	1,610	1,983
101.12	1,610	1,373	101.64	1,610	1,995
101.13	1,610	1,386	101.65	1,610	2,006
101.14	1,610	1,398	101.66	1,610	2,018
101.15	1,610	1,410	101.67	1,610	2,029
101.16	1,610	1,423	101.68	1,610	2,041
101.17	1,610	1,435	101.69	1,610	2,052
101.18	1,610	1,447	101.70	1,610	2,064
101.19	1,610	1,459	101.71	1,610	2,075
101.20	1,610	1,472	101.72	1,610	2,086
101.21	1,610	1,484	101.73	1,610	2,097
101.22	1,610	1,496	101.74	1,610	2,109
101.23	1,610	1,508	101.75	1,610	2,120
101.24	1,610	1,521	101.76	1,610	2,131
101.25	1,610	1,533	101.77	1,610	2,142
101.26	1,610	1,545	101.78	1,610	2,154
101.27	1,610	1,557	101.79	1,610	2,165
101.28	1,610	1,569	101.80	1,610	2,176
101.29	1,610	1,581	101.81	1,610	2,187
101.30	1,610	1,594	101.82	1,610	2,198
101.31	1,610	1,606	101.83	1,610	2,209
101.32	1,610	1,618	101.84	1,610	2,220
101.33	1,610	1,630	101.85	1,610	2,231
101.34	1,610	1,642	101.86	1,610	2,242
101.35	1,610	1,654	101.87	1,610	2,253

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Stage-Area-Storage for Pond SWB: Stormtech SC-740 (SWM-B) (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
101.88	1,610	2,264	102.40	1,610	2,788
101.89	1,610	2,275	102.41	1,610	2,797
101.90	1,610	2,286	102.42	1,610	2,806
101.91	1,610	2,297	102.43	1,610	2,815
101.92	1,610	2,308	102.44	1,610	2,824
101.93	1,610	2,319	102.45	1,610	2,832
101.94	1,610	2,329	102.46	1,610	2,841
101.95	1,610	2,340	102.47	1,610	2,850
101.96	1,610	2,351	102.48	1,610	2,858
101.97	1,610	2,362	102.49	1,610	2,866
101.98	1,610	2,372	102.50	1,610	2,875
101.99	1,610	2,383	102.51	1,610	2,883
102.00	1,610	2,393	102.52	1,610	2,891
102.01	1,610	2,404	102.53	1,610	2,899
102.02	1,610	2,415	102.54	1,610	2,907
102.03	1,610	2,425	102.55	1,610	2,915
102.04	1,610	2,435	102.56	1,610	2,923
102.05	1,610	2,446	102.57	1,610	2,930
102.06	1,610	2,456	102.58	1,610	2,938
102.07	1,610	2,467	102.59	1,610	2,945
102.08	1,610	2,477	102.60	1,610	2,953
102.09	1,610	2,487	102.61	1,610	2,960
102.10	1,610	2,498	102.62	1,610	2,967
102.11	1,610	2,508	102.63	1,610	2,975
102.12	1,610	2,518	102.64	1,610	2,982
102.13	1,610	2,528	102.65	1,610	2,989
102.14	1,610	2,538	102.66	1,610	2,996
102.15	1,610	2,548	102.67	1,610	3,003
102.16	1,610	2,558	102.68	1,610	3,010
102.17	1,610	2,568	102.69	1,610	3,017
102.18	1,610	2,578	102.70	1,610	3,023
102.19	1,610	2,588	102.71	1,610	3,030
102.20	1,610	2,598	102.72	1,610	3,037
102.21	1,610	2,608	102.73	1,610	3,044
102.22	1,610	2,618	102.74	1,610	3,051
102.23	1,610	2,628	102.75	1,610	3,057
102.24	1,610	2,638	102.76	1,610	3,064
102.25	1,610	2,647	102.77	1,610	3,070
102.26	1,610	2,657	102.78	1,610	3,077
102.27	1,610	2,667	102.79	1,610	3,083
102.28	1,610	2,676	102.80	1,610	3,090
102.29	1,610	2,686	102.81	1,610	3,096
102.30	1,610	2,695	102.82	1,610	3,103
102.31	1,610	2,705	102.83	1,610	3,109
102.32	1,610	2,714	102.84	1,610	3,116
102.33	1,610	2,724	102.85	1,610	3,122
102.34	1,610	2,733	102.86	1,610	3,129
102.35	1,610	2,742	102.87	1,610	3,135
102.36	1,610	2,752	102.88	1,610	3,141
102.37	1,610	2,761	102.89	1,610	3,148
102.38	1,610	2,770	102.90	1,610	3,154
102.39	1,610	2,779	102.91	1,610	3,161

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Stage-Area-Storage for Pond SWB: Stormtech SC-740 (SWM-B) (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
102.92	1,610	3,167
102.93	1,610	3,174
102.94	1,610	3,180
102.95	1,610	3,187
102.96	1,610	3,193
102.97	1,610	3,199
102.98	1,610	3,206
102.99	1,610	3,212
103.00	1,610	3,219
103.01	1,610	3,225
103.02	1,610	3,232
103.03	1,610	3,238
103.04	1,610	3,245
103.05	1,610	3,251
103.06	1,610	3,257
103.07	1,610	3,264
103.08	1,610	3,270
103.09	1,610	3,277
103.10	1,610	3,283
103.11	1,610	3,290
103.12	1,610	3,296
103.13	1,610	3,302
103.14	1,610	3,309
103.15	1,610	3,315
103.16	1,610	3,322
103.17	1,610	3,328
103.18	1,610	3,335
103.19	1,610	3,341
103.20	1,610	3,348
103.21	1,610	3,354
103.22	1,610	3,360
103.23	1,610	3,367
103.24	1,610	3,373
103.25	1,610	3,380
103.26	1,610	3,386
103.27	1,610	3,393
103.28	1,610	3,399
103.29	1,610	3,406
103.30	1,610	3,412

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Type III 24-hr 10-Year Rainfall=4.89"

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Summary for Link 1L: DA3 Discharge

Inflow Area = 34,600 sf, 89.89% Impervious, Inflow Depth = 0.26" for 10-Year event
Inflow = 0.25 cfs @ 12.08 hrs, Volume= 758 cf
Primary = 0.25 cfs @ 12.08 hrs, Volume= 758 cf, Atten= 0%, Lag= 0.0 min
Routed to Link TSD : Total Site Discharge

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

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Type III 24-hr 10-Year Rainfall=4.89"

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Summary for Link TSD: Total Site Discharge

Inflow Area = 45,484 sf, 72.47% Impervious, Inflow Depth = 0.35" for 10-Year event
Inflow = 0.37 cfs @ 12.08 hrs, Volume= 1,312 cf
Primary = 0.37 cfs @ 12.08 hrs, Volume= 1,312 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

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Type III 24-hr 25-Year Rainfall=6.00"

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Time span=0.00-72.00 hrs, dt=0.02 hrs, 3601 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind method - Pond routing by Stor-Ind method

Subcatchment DA1: DA1 Runoff Area=8,173 sf 22.75% Impervious Runoff Depth=1.29"
Tc=5.0 min CN=52 Runoff=0.25 cfs 878 cf

Subcatchment DA2: DA2 Runoff Area=2,711 sf 0.00% Impervious Runoff Depth=0.45"
Tc=5.0 min CN=39 Runoff=0.01 cfs 101 cf

Subcatchment DA3A: DA3A Runoff Area=8,592 sf 100.00% Impervious Runoff Depth=5.76"
Tc=5.0 min CN=98 Runoff=1.20 cfs 4,125 cf

Subcatchment DA3B: DA3B Runoff Area=22,535 sf 89.57% Impervious Runoff Depth=5.07"
Tc=5.0 min CN=92 Runoff=2.98 cfs 9,520 cf

Subcatchment DA3C: DA3C Runoff Area=3,473 sf 66.95% Impervious Runoff Depth=3.58"
Tc=5.0 min CN=78 Runoff=0.35 cfs 1,036 cf

Pond SWA: Stormtech SC-740 (SWM-A) Peak Elev=101.46' Storage=717 cf Inflow=1.20 cfs 4,125 cf
Discarded=0.31 cfs 4,125 cf Primary=0.00 cfs 0 cf Outflow=0.31 cfs 4,125 cf

Pond SWB: Stormtech SC-740 (SWM-B) Peak Elev=101.49' Storage=1,822 cf Inflow=2.98 cfs 9,520 cf
Discarded=0.75 cfs 9,520 cf Primary=0.00 cfs 0 cf Outflow=0.75 cfs 9,520 cf

Link 1L: DA3 Discharge Inflow=0.35 cfs 1,036 cf
Primary=0.35 cfs 1,036 cf

Link TSD: Total Site Discharge Inflow=0.59 cfs 2,014 cf
Primary=0.59 cfs 2,014 cf

Total Runoff Area = 45,484 sf Runoff Volume = 15,660 cf Average Runoff Depth = 4.13"
27.53% Pervious = 12,523 sf 72.47% Impervious = 32,961 sf

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Type III 24-hr 25-Year Rainfall=6.00"

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Summary for Subcatchment DA1: DA1

Runoff = 0.25 cfs @ 12.09 hrs, Volume= 878 cf, Depth= 1.29"

Routed to Link TSD : Total Site Discharge

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

Type III 24-hr 25-Year Rainfall=6.00"

Area (sf)	CN	Description
1,859	98	Paved roads w/curbs & sewers, HSG A
6,314	39	>75% Grass cover, Good, HSG A
8,173	52	Weighted Average
6,314		77.25% Pervious Area
1,859		22.75% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry, DIRECT

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Type III 24-hr 25-Year Rainfall=6.00"

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Summary for Subcatchment DA2: DA2

Runoff = 0.01 cfs @ 12.33 hrs, Volume= 101 cf, Depth= 0.45"

Routed to Link TSD : Total Site Discharge

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

Type III 24-hr 25-Year Rainfall=6.00"

Area (sf)	CN	Description
2,711	39	>75% Grass cover, Good, HSG A
2,711		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry, DIRECT

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Type III 24-hr 25-Year Rainfall=6.00"

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Summary for Subcatchment DA3A: DA3A

Runoff = 1.20 cfs @ 12.07 hrs, Volume= 4,125 cf, Depth= 5.76"

Routed to Pond SWA : Stormtech SC-740 (SWM-A)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

Type III 24-hr 25-Year Rainfall=6.00"

Area (sf)	CN	Description
8,592	98	Roofs, HSG A
8,592		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry, DIRECT

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Type III 24-hr 25-Year Rainfall=6.00"

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Summary for Subcatchment DA3B: DA3B

Runoff = 2.98 cfs @ 12.07 hrs, Volume= 9,520 cf, Depth= 5.07"

Routed to Pond SWB : Stormtech SC-740 (SWM-B)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

Type III 24-hr 25-Year Rainfall=6.00"

Area (sf)	CN	Description
20,185	98	Paved parking, HSG A
2,350	39	>75% Grass cover, Good, HSG A
22,535	92	Weighted Average
2,350		10.43% Pervious Area
20,185		89.57% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry, DIRECT

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Type III 24-hr 25-Year Rainfall=6.00"

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Summary for Subcatchment DA3C: DA3C

Runoff = 0.35 cfs @ 12.07 hrs, Volume= 1,036 cf, Depth= 3.58"

Routed to Link 1L : DA3 Discharge

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

Type III 24-hr 25-Year Rainfall=6.00"

Area (sf)	CN	Description
2,325	98	Paved roads w/curbs & sewers, HSG A
1,148	39	>75% Grass cover, Good, HSG A
3,473	78	Weighted Average
1,148		33.05% Pervious Area
2,325		66.95% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry, DIRECT

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Type III 24-hr 25-Year Rainfall=6.00"

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Summary for Pond SWA: Stormtech SC-740 (SWM-A)

Inflow Area = 8,592 sf, 100.00% Impervious, Inflow Depth = 5.76" for 25-Year event
 Inflow = 1.20 cfs @ 12.07 hrs, Volume= 4,125 cf
 Outflow = 0.31 cfs @ 11.76 hrs, Volume= 4,125 cf, Atten= 74%, Lag= 0.0 min
 Discarded = 0.31 cfs @ 11.76 hrs, Volume= 4,125 cf
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
 Routed to Link 1L : DA3 Discharge

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
 Peak Elev= 101.46' @ 12.42 hrs Surf.Area= 666 sf Storage= 717 cf

Plug-Flow detention time= 10.1 min calculated for 4,124 cf (100% of inflow)
 Center-of-Mass det. time= 10.1 min (754.3 - 744.2)

Volume	Invert	Avail.Storage	Storage Description
#1A	99.80'	639 cf	11.00'W x 60.58'L x 3.50'H Field A 2,332 cf Overall - 735 cf Embedded = 1,597 cf x 40.0% Voids
#2A	100.30'	735 cf	ADS_StormTech SC-740 +Cap x 16 Inside #1 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap 16 Chambers in 2 Rows
		1,374 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Primary	101.30'	12.0" Round Outlet Pipe L= 63.0' CPP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 101.30' / 100.90' S= 0.0063 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf
#2	Device 1	102.60'	4.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#3	Discarded	99.80'	20.000 in/hr Exfiltration over Surface area

Discarded OutFlow Max=0.31 cfs @ 11.76 hrs HW=99.84' (Free Discharge)
 ↑**3=Exfiltration** (Exfiltration Controls 0.31 cfs)

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=99.80' (Free Discharge)
 ↑**1=Outlet Pipe** (Controls 0.00 cfs)
 ↑**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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Pond SWA: Stormtech SC-740 (SWM-A) - Chamber Wizard Field A

Chamber Model = ADS_StormTech SC-740 +Cap (ADS StormTech® SC-740 with cap length)

Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf

Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap

51.0" Wide + 6.0" Spacing = 57.0" C-C Row Spacing

8 Chambers/Row x 7.12' Long +0.81' Cap Length x 2 = 58.58' Row Length +12.0" End Stone x 2 = 60.58' Base Length

2 Rows x 51.0" Wide + 6.0" Spacing x 1 + 12.0" Side Stone x 2 = 11.00' Base Width

6.0" Stone Base + 30.0" Chamber Height + 6.0" Stone Cover = 3.50' Field Height

16 Chambers x 45.9 cf = 735.0 cf Chamber Storage

2,332.2 cf Field - 735.0 cf Chambers = 1,597.2 cf Stone x 40.0% Voids = 638.9 cf Stone Storage

Chamber Storage + Stone Storage = 1,373.9 cf = 0.032 af

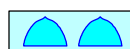
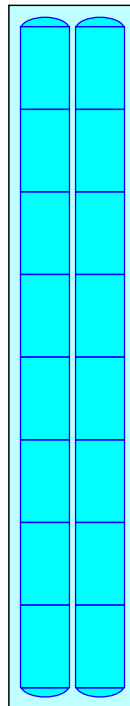
Overall Storage Efficiency = 58.9%

Overall System Size = 60.58' x 11.00' x 3.50'

16 Chambers

86.4 cy Field

59.2 cy Stone



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Stage-Discharge for Pond SWA: Stormtech SC-740 (SWM-A)

Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)	Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)
99.80	0.00	0.00	0.00	100.32	0.31	0.31	0.00
99.81	0.31	0.31	0.00	100.33	0.31	0.31	0.00
99.82	0.31	0.31	0.00	100.34	0.31	0.31	0.00
99.83	0.31	0.31	0.00	100.35	0.31	0.31	0.00
99.84	0.31	0.31	0.00	100.36	0.31	0.31	0.00
99.85	0.31	0.31	0.00	100.37	0.31	0.31	0.00
99.86	0.31	0.31	0.00	100.38	0.31	0.31	0.00
99.87	0.31	0.31	0.00	100.39	0.31	0.31	0.00
99.88	0.31	0.31	0.00	100.40	0.31	0.31	0.00
99.89	0.31	0.31	0.00	100.41	0.31	0.31	0.00
99.90	0.31	0.31	0.00	100.42	0.31	0.31	0.00
99.91	0.31	0.31	0.00	100.43	0.31	0.31	0.00
99.92	0.31	0.31	0.00	100.44	0.31	0.31	0.00
99.93	0.31	0.31	0.00	100.45	0.31	0.31	0.00
99.94	0.31	0.31	0.00	100.46	0.31	0.31	0.00
99.95	0.31	0.31	0.00	100.47	0.31	0.31	0.00
99.96	0.31	0.31	0.00	100.48	0.31	0.31	0.00
99.97	0.31	0.31	0.00	100.49	0.31	0.31	0.00
99.98	0.31	0.31	0.00	100.50	0.31	0.31	0.00
99.99	0.31	0.31	0.00	100.51	0.31	0.31	0.00
100.00	0.31	0.31	0.00	100.52	0.31	0.31	0.00
100.01	0.31	0.31	0.00	100.53	0.31	0.31	0.00
100.02	0.31	0.31	0.00	100.54	0.31	0.31	0.00
100.03	0.31	0.31	0.00	100.55	0.31	0.31	0.00
100.04	0.31	0.31	0.00	100.56	0.31	0.31	0.00
100.05	0.31	0.31	0.00	100.57	0.31	0.31	0.00
100.06	0.31	0.31	0.00	100.58	0.31	0.31	0.00
100.07	0.31	0.31	0.00	100.59	0.31	0.31	0.00
100.08	0.31	0.31	0.00	100.60	0.31	0.31	0.00
100.09	0.31	0.31	0.00	100.61	0.31	0.31	0.00
100.10	0.31	0.31	0.00	100.62	0.31	0.31	0.00
100.11	0.31	0.31	0.00	100.63	0.31	0.31	0.00
100.12	0.31	0.31	0.00	100.64	0.31	0.31	0.00
100.13	0.31	0.31	0.00	100.65	0.31	0.31	0.00
100.14	0.31	0.31	0.00	100.66	0.31	0.31	0.00
100.15	0.31	0.31	0.00	100.67	0.31	0.31	0.00
100.16	0.31	0.31	0.00	100.68	0.31	0.31	0.00
100.17	0.31	0.31	0.00	100.69	0.31	0.31	0.00
100.18	0.31	0.31	0.00	100.70	0.31	0.31	0.00
100.19	0.31	0.31	0.00	100.71	0.31	0.31	0.00
100.20	0.31	0.31	0.00	100.72	0.31	0.31	0.00
100.21	0.31	0.31	0.00	100.73	0.31	0.31	0.00
100.22	0.31	0.31	0.00	100.74	0.31	0.31	0.00
100.23	0.31	0.31	0.00	100.75	0.31	0.31	0.00
100.24	0.31	0.31	0.00	100.76	0.31	0.31	0.00
100.25	0.31	0.31	0.00	100.77	0.31	0.31	0.00
100.26	0.31	0.31	0.00	100.78	0.31	0.31	0.00
100.27	0.31	0.31	0.00	100.79	0.31	0.31	0.00
100.28	0.31	0.31	0.00	100.80	0.31	0.31	0.00
100.29	0.31	0.31	0.00	100.81	0.31	0.31	0.00
100.30	0.31	0.31	0.00	100.82	0.31	0.31	0.00
100.31	0.31	0.31	0.00	100.83	0.31	0.31	0.00

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Type III 24-hr 25-Year Rainfall=6.00"

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Stage-Discharge for Pond SWA: Stormtech SC-740 (SWM-A) (continued)

Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)	Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)
100.84	0.31	0.31	0.00	101.36	0.31	0.31	0.00
100.85	0.31	0.31	0.00	101.37	0.31	0.31	0.00
100.86	0.31	0.31	0.00	101.38	0.31	0.31	0.00
100.87	0.31	0.31	0.00	101.39	0.31	0.31	0.00
100.88	0.31	0.31	0.00	101.40	0.31	0.31	0.00
100.89	0.31	0.31	0.00	101.41	0.31	0.31	0.00
100.90	0.31	0.31	0.00	101.42	0.31	0.31	0.00
100.91	0.31	0.31	0.00	101.43	0.31	0.31	0.00
100.92	0.31	0.31	0.00	101.44	0.31	0.31	0.00
100.93	0.31	0.31	0.00	101.45	0.31	0.31	0.00
100.94	0.31	0.31	0.00	101.46	0.31	0.31	0.00
100.95	0.31	0.31	0.00	101.47	0.31	0.31	0.00
100.96	0.31	0.31	0.00	101.48	0.31	0.31	0.00
100.97	0.31	0.31	0.00	101.49	0.31	0.31	0.00
100.98	0.31	0.31	0.00	101.50	0.31	0.31	0.00
100.99	0.31	0.31	0.00	101.51	0.31	0.31	0.00
101.00	0.31	0.31	0.00	101.52	0.31	0.31	0.00
101.01	0.31	0.31	0.00	101.53	0.31	0.31	0.00
101.02	0.31	0.31	0.00	101.54	0.31	0.31	0.00
101.03	0.31	0.31	0.00	101.55	0.31	0.31	0.00
101.04	0.31	0.31	0.00	101.56	0.31	0.31	0.00
101.05	0.31	0.31	0.00	101.57	0.31	0.31	0.00
101.06	0.31	0.31	0.00	101.58	0.31	0.31	0.00
101.07	0.31	0.31	0.00	101.59	0.31	0.31	0.00
101.08	0.31	0.31	0.00	101.60	0.31	0.31	0.00
101.09	0.31	0.31	0.00	101.61	0.31	0.31	0.00
101.10	0.31	0.31	0.00	101.62	0.31	0.31	0.00
101.11	0.31	0.31	0.00	101.63	0.31	0.31	0.00
101.12	0.31	0.31	0.00	101.64	0.31	0.31	0.00
101.13	0.31	0.31	0.00	101.65	0.31	0.31	0.00
101.14	0.31	0.31	0.00	101.66	0.31	0.31	0.00
101.15	0.31	0.31	0.00	101.67	0.31	0.31	0.00
101.16	0.31	0.31	0.00	101.68	0.31	0.31	0.00
101.17	0.31	0.31	0.00	101.69	0.31	0.31	0.00
101.18	0.31	0.31	0.00	101.70	0.31	0.31	0.00
101.19	0.31	0.31	0.00	101.71	0.31	0.31	0.00
101.20	0.31	0.31	0.00	101.72	0.31	0.31	0.00
101.21	0.31	0.31	0.00	101.73	0.31	0.31	0.00
101.22	0.31	0.31	0.00	101.74	0.31	0.31	0.00
101.23	0.31	0.31	0.00	101.75	0.31	0.31	0.00
101.24	0.31	0.31	0.00	101.76	0.31	0.31	0.00
101.25	0.31	0.31	0.00	101.77	0.31	0.31	0.00
101.26	0.31	0.31	0.00	101.78	0.31	0.31	0.00
101.27	0.31	0.31	0.00	101.79	0.31	0.31	0.00
101.28	0.31	0.31	0.00	101.80	0.31	0.31	0.00
101.29	0.31	0.31	0.00	101.81	0.31	0.31	0.00
101.30	0.31	0.31	0.00	101.82	0.31	0.31	0.00
101.31	0.31	0.31	0.00	101.83	0.31	0.31	0.00
101.32	0.31	0.31	0.00	101.84	0.31	0.31	0.00
101.33	0.31	0.31	0.00	101.85	0.31	0.31	0.00
101.34	0.31	0.31	0.00	101.86	0.31	0.31	0.00
101.35	0.31	0.31	0.00	101.87	0.31	0.31	0.00

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Stage-Discharge for Pond SWA: Stormtech SC-740 (SWM-A) (continued)

Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)	Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)
101.88	0.31	0.31	0.00	102.40	0.31	0.31	0.00
101.89	0.31	0.31	0.00	102.41	0.31	0.31	0.00
101.90	0.31	0.31	0.00	102.42	0.31	0.31	0.00
101.91	0.31	0.31	0.00	102.43	0.31	0.31	0.00
101.92	0.31	0.31	0.00	102.44	0.31	0.31	0.00
101.93	0.31	0.31	0.00	102.45	0.31	0.31	0.00
101.94	0.31	0.31	0.00	102.46	0.31	0.31	0.00
101.95	0.31	0.31	0.00	102.47	0.31	0.31	0.00
101.96	0.31	0.31	0.00	102.48	0.31	0.31	0.00
101.97	0.31	0.31	0.00	102.49	0.31	0.31	0.00
101.98	0.31	0.31	0.00	102.50	0.31	0.31	0.00
101.99	0.31	0.31	0.00	102.51	0.31	0.31	0.00
102.00	0.31	0.31	0.00	102.52	0.31	0.31	0.00
102.01	0.31	0.31	0.00	102.53	0.31	0.31	0.00
102.02	0.31	0.31	0.00	102.54	0.31	0.31	0.00
102.03	0.31	0.31	0.00	102.55	0.31	0.31	0.00
102.04	0.31	0.31	0.00	102.56	0.31	0.31	0.00
102.05	0.31	0.31	0.00	102.57	0.31	0.31	0.00
102.06	0.31	0.31	0.00	102.58	0.31	0.31	0.00
102.07	0.31	0.31	0.00	102.59	0.31	0.31	0.00
102.08	0.31	0.31	0.00	102.60	0.31	0.31	0.00
102.09	0.31	0.31	0.00	102.61	0.32	0.31	0.01
102.10	0.31	0.31	0.00	102.62	0.34	0.31	0.03
102.11	0.31	0.31	0.00	102.63	0.37	0.31	0.06
102.12	0.31	0.31	0.00	102.64	0.40	0.31	0.09
102.13	0.31	0.31	0.00	102.65	0.43	0.31	0.13
102.14	0.31	0.31	0.00	102.66	0.47	0.31	0.16
102.15	0.31	0.31	0.00	102.67	0.52	0.31	0.21
102.16	0.31	0.31	0.00	102.68	0.56	0.31	0.25
102.17	0.31	0.31	0.00	102.69	0.61	0.31	0.30
102.18	0.31	0.31	0.00	102.70	0.66	0.31	0.35
102.19	0.31	0.31	0.00	102.71	0.72	0.31	0.41
102.20	0.31	0.31	0.00	102.72	0.77	0.31	0.47
102.21	0.31	0.31	0.00	102.73	0.83	0.31	0.52
102.22	0.31	0.31	0.00	102.74	0.90	0.31	0.59
102.23	0.31	0.31	0.00	102.75	0.96	0.31	0.65
102.24	0.31	0.31	0.00	102.76	1.03	0.31	0.72
102.25	0.31	0.31	0.00	102.77	1.09	0.31	0.79
102.26	0.31	0.31	0.00	102.78	1.16	0.31	0.86
102.27	0.31	0.31	0.00	102.79	1.24	0.31	0.93
102.28	0.31	0.31	0.00	102.80	1.31	0.31	1.00
102.29	0.31	0.31	0.00	102.81	1.39	0.31	1.08
102.30	0.31	0.31	0.00	102.82	1.47	0.31	1.16
102.31	0.31	0.31	0.00	102.83	1.55	0.31	1.24
102.32	0.31	0.31	0.00	102.84	1.64	0.31	1.33
102.33	0.31	0.31	0.00	102.85	1.72	0.31	1.41
102.34	0.31	0.31	0.00	102.86	1.81	0.31	1.50
102.35	0.31	0.31	0.00	102.87	1.90	0.31	1.59
102.36	0.31	0.31	0.00	102.88	2.00	0.31	1.69
102.37	0.31	0.31	0.00	102.89	2.09	0.31	1.78
102.38	0.31	0.31	0.00	102.90	2.19	0.31	1.88
102.39	0.31	0.31	0.00	102.91	2.29	0.31	1.98

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Stage-Discharge for Pond SWA: Stormtech SC-740 (SWM-A) (continued)

Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)
102.92	2.39	0.31	2.08
102.93	2.49	0.31	2.18
102.94	2.60	0.31	2.29
102.95	2.70	0.31	2.39
102.96	2.81	0.31	2.50
102.97	2.92	0.31	2.61
102.98	3.03	0.31	2.72
102.99	3.15	0.31	2.84
103.00	3.26	0.31	2.95
103.01	3.38	0.31	3.07
103.02	3.51	0.31	3.20
103.03	3.63	0.31	3.32
103.04	3.75	0.31	3.45
103.05	3.88	0.31	3.57
103.06	4.01	0.31	3.70
103.07	4.13	0.31	3.82
103.08	4.14	0.31	3.84
103.09	4.16	0.31	3.85
103.10	4.18	0.31	3.87
103.11	4.19	0.31	3.88
103.12	4.21	0.31	3.90
103.13	4.23	0.31	3.92
103.14	4.24	0.31	3.93
103.15	4.26	0.31	3.95
103.16	4.27	0.31	3.96
103.17	4.29	0.31	3.98
103.18	4.30	0.31	4.00
103.19	4.32	0.31	4.01
103.20	4.33	0.31	4.03
103.21	4.35	0.31	4.04
103.22	4.37	0.31	4.06
103.23	4.38	0.31	4.07
103.24	4.40	0.31	4.09
103.25	4.41	0.31	4.10
103.26	4.43	0.31	4.12
103.27	4.44	0.31	4.13
103.28	4.46	0.31	4.15
103.29	4.47	0.31	4.16
103.30	4.49	0.31	4.18

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Stage-Area-Storage for Pond SWA: Stormtech SC-740 (SWM-A)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
99.80	666	0	100.32	666	144
99.81	666	3	100.33	666	149
99.82	666	5	100.34	666	154
99.83	666	8	100.35	666	159
99.84	666	11	100.36	666	165
99.85	666	13	100.37	666	170
99.86	666	16	100.38	666	175
99.87	666	19	100.39	666	180
99.88	666	21	100.40	666	185
99.89	666	24	100.41	666	191
99.90	666	27	100.42	666	196
99.91	666	29	100.43	666	201
99.92	666	32	100.44	666	206
99.93	666	35	100.45	666	211
99.94	666	37	100.46	666	216
99.95	666	40	100.47	666	222
99.96	666	43	100.48	666	227
99.97	666	45	100.49	666	232
99.98	666	48	100.50	666	237
99.99	666	51	100.51	666	242
100.00	666	53	100.52	666	248
100.01	666	56	100.53	666	253
100.02	666	59	100.54	666	258
100.03	666	61	100.55	666	263
100.04	666	64	100.56	666	268
100.05	666	67	100.57	666	273
100.06	666	69	100.58	666	279
100.07	666	72	100.59	666	284
100.08	666	75	100.60	666	289
100.09	666	77	100.61	666	294
100.10	666	80	100.62	666	299
100.11	666	83	100.63	666	304
100.12	666	85	100.64	666	309
100.13	666	88	100.65	666	315
100.14	666	91	100.66	666	320
100.15	666	93	100.67	666	325
100.16	666	96	100.68	666	330
100.17	666	99	100.69	666	335
100.18	666	101	100.70	666	340
100.19	666	104	100.71	666	345
100.20	666	107	100.72	666	350
100.21	666	109	100.73	666	355
100.22	666	112	100.74	666	361
100.23	666	115	100.75	666	366
100.24	666	117	100.76	666	371
100.25	666	120	100.77	666	376
100.26	666	123	100.78	666	381
100.27	666	125	100.79	666	386
100.28	666	128	100.80	666	391
100.29	666	131	100.81	666	396
100.30	666	133	100.82	666	401
100.31	666	138	100.83	666	406

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Stage-Area-Storage for Pond SWA: Stormtech SC-740 (SWM-A) (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
100.84	666	411	101.36	666	668
100.85	666	416	101.37	666	672
100.86	666	421	101.38	666	677
100.87	666	426	101.39	666	682
100.88	666	431	101.40	666	687
100.89	666	437	101.41	666	692
100.90	666	442	101.42	666	696
100.91	666	447	101.43	666	701
100.92	666	452	101.44	666	706
100.93	666	457	101.45	666	710
100.94	666	462	101.46	666	715
100.95	666	467	101.47	666	720
100.96	666	472	101.48	666	725
100.97	666	477	101.49	666	729
100.98	666	482	101.50	666	734
100.99	666	487	101.51	666	739
101.00	666	492	101.52	666	743
101.01	666	497	101.53	666	748
101.02	666	502	101.54	666	753
101.03	666	507	101.55	666	757
101.04	666	512	101.56	666	762
101.05	666	516	101.57	666	767
101.06	666	521	101.58	666	771
101.07	666	526	101.59	666	776
101.08	666	531	101.60	666	781
101.09	666	536	101.61	666	785
101.10	666	541	101.62	666	790
101.11	666	546	101.63	666	794
101.12	666	551	101.64	666	799
101.13	666	556	101.65	666	804
101.14	666	561	101.66	666	808
101.15	666	566	101.67	666	813
101.16	666	571	101.68	666	817
101.17	666	576	101.69	666	822
101.18	666	581	101.70	666	826
101.19	666	585	101.71	666	831
101.20	666	590	101.72	666	835
101.21	666	595	101.73	666	840
101.22	666	600	101.74	666	844
101.23	666	605	101.75	666	849
101.24	666	610	101.76	666	853
101.25	666	615	101.77	666	858
101.26	666	619	101.78	666	862
101.27	666	624	101.79	666	867
101.28	666	629	101.80	666	871
101.29	666	634	101.81	666	876
101.30	666	639	101.82	666	880
101.31	666	644	101.83	666	885
101.32	666	648	101.84	666	889
101.33	666	653	101.85	666	893
101.34	666	658	101.86	666	898
101.35	666	663	101.87	666	902

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Stage-Area-Storage for Pond SWA: Stormtech SC-740 (SWM-A) (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
101.88	666	907	102.40	666	1,117
101.89	666	911	102.41	666	1,121
101.90	666	915	102.42	666	1,124
101.91	666	920	102.43	666	1,128
101.92	666	924	102.44	666	1,132
101.93	666	928	102.45	666	1,135
101.94	666	933	102.46	666	1,139
101.95	666	937	102.47	666	1,142
101.96	666	941	102.48	666	1,146
101.97	666	946	102.49	666	1,149
101.98	666	950	102.50	666	1,152
101.99	666	954	102.51	666	1,156
102.00	666	958	102.52	666	1,159
102.01	666	963	102.53	666	1,162
102.02	666	967	102.54	666	1,165
102.03	666	971	102.55	666	1,169
102.04	666	975	102.56	666	1,172
102.05	666	979	102.57	666	1,175
102.06	666	984	102.58	666	1,178
102.07	666	988	102.59	666	1,181
102.08	666	992	102.60	666	1,184
102.09	666	996	102.61	666	1,187
102.10	666	1,000	102.62	666	1,190
102.11	666	1,004	102.63	666	1,193
102.12	666	1,008	102.64	666	1,196
102.13	666	1,012	102.65	666	1,199
102.14	666	1,016	102.66	666	1,202
102.15	666	1,021	102.67	666	1,205
102.16	666	1,025	102.68	666	1,208
102.17	666	1,029	102.69	666	1,210
102.18	666	1,033	102.70	666	1,213
102.19	666	1,037	102.71	666	1,216
102.20	666	1,041	102.72	666	1,219
102.21	666	1,045	102.73	666	1,222
102.22	666	1,049	102.74	666	1,224
102.23	666	1,053	102.75	666	1,227
102.24	666	1,056	102.76	666	1,230
102.25	666	1,060	102.77	666	1,233
102.26	666	1,064	102.78	666	1,235
102.27	666	1,068	102.79	666	1,238
102.28	666	1,072	102.80	666	1,241
102.29	666	1,076	102.81	666	1,243
102.30	666	1,080	102.82	666	1,246
102.31	666	1,084	102.83	666	1,249
102.32	666	1,087	102.84	666	1,251
102.33	666	1,091	102.85	666	1,254
102.34	666	1,095	102.86	666	1,257
102.35	666	1,099	102.87	666	1,259
102.36	666	1,102	102.88	666	1,262
102.37	666	1,106	102.89	666	1,265
102.38	666	1,110	102.90	666	1,267
102.39	666	1,114	102.91	666	1,270

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Stage-Area-Storage for Pond SWA: Stormtech SC-740 (SWM-A) (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
102.92	666	1,273
102.93	666	1,275
102.94	666	1,278
102.95	666	1,281
102.96	666	1,283
102.97	666	1,286
102.98	666	1,289
102.99	666	1,291
103.00	666	1,294
103.01	666	1,297
103.02	666	1,299
103.03	666	1,302
103.04	666	1,305
103.05	666	1,307
103.06	666	1,310
103.07	666	1,313
103.08	666	1,315
103.09	666	1,318
103.10	666	1,321
103.11	666	1,323
103.12	666	1,326
103.13	666	1,329
103.14	666	1,331
103.15	666	1,334
103.16	666	1,337
103.17	666	1,339
103.18	666	1,342
103.19	666	1,345
103.20	666	1,347
103.21	666	1,350
103.22	666	1,353
103.23	666	1,355
103.24	666	1,358
103.25	666	1,361
103.26	666	1,363
103.27	666	1,366
103.28	666	1,369
103.29	666	1,371
103.30	666	1,374

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Summary for Pond SWB: Stormtech SC-740 (SWM-B)

Inflow Area = 22,535 sf, 89.57% Impervious, Inflow Depth = 5.07" for 25-Year event
 Inflow = 2.98 cfs @ 12.07 hrs, Volume= 9,520 cf
 Outflow = 0.75 cfs @ 11.76 hrs, Volume= 9,520 cf, Atten= 75%, Lag= 0.0 min
 Discarded = 0.75 cfs @ 11.76 hrs, Volume= 9,520 cf
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
 Routed to Link 1L : DA3 Discharge

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
 Peak Elev= 101.49' @ 12.43 hrs Surf.Area= 1,610 sf Storage= 1,822 cf

Plug-Flow detention time= 11.5 min calculated for 9,517 cf (100% of inflow)
 Center-of-Mass det. time= 11.5 min (787.7 - 776.2)

Volume	Invert	Avail.Storage	Storage Description
#1A	99.80'	1,482 cf	34.75'W x 46.34'L x 3.50'H Field A 5,636 cf Overall - 1,929 cf Embedded = 3,706 cf x 40.0% Voids
#2A	100.30'	1,929 cf	ADS_StormTech SC-740 +Cap x 42 Inside #1 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap 42 Chambers in 7 Rows
		3,412 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Primary	101.30'	12.0" Round Outlet Pipe L= 63.0' CPP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 101.30' / 100.90' S= 0.0063 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf
#2	Device 1	102.60'	4.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#3	Discarded	99.80'	20.000 in/hr Exfiltration over Surface area

Discarded OutFlow Max=0.75 cfs @ 11.76 hrs HW=99.84' (Free Discharge)
 ↑**3=Exfiltration** (Exfiltration Controls 0.75 cfs)

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=99.80' (Free Discharge)
 ↑**1=Outlet Pipe** (Controls 0.00 cfs)
 ↑**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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Pond SWB: Stormtech SC-740 (SWM-B) - Chamber Wizard Field A

Chamber Model = ADS_StormTech SC-740 +Cap (ADS StormTech® SC-740 with cap length)

Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf

Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap

51.0" Wide + 6.0" Spacing = 57.0" C-C Row Spacing

6 Chambers/Row x 7.12' Long +0.81' Cap Length x 2 = 44.34' Row Length +12.0" End Stone x 2 = 46.34' Base Length

7 Rows x 51.0" Wide + 6.0" Spacing x 6 + 12.0" Side Stone x 2 = 34.75' Base Width

6.0" Stone Base + 30.0" Chamber Height + 6.0" Stone Cover = 3.50' Field Height

42 Chambers x 45.9 cf = 1,929.5 cf Chamber Storage

5,635.7 cf Field - 1,929.5 cf Chambers = 3,706.2 cf Stone x 40.0% Voids = 1,482.5 cf Stone Storage

Chamber Storage + Stone Storage = 3,412.0 cf = 0.078 af

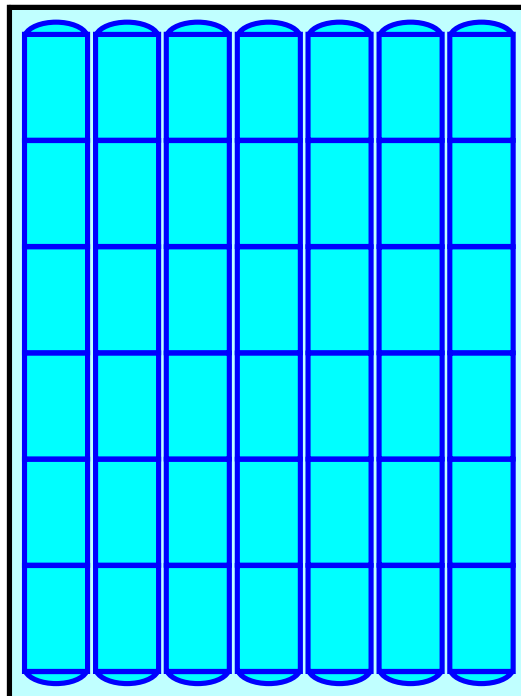
Overall Storage Efficiency = 60.5%

Overall System Size = 46.34' x 34.75' x 3.50'

42 Chambers

208.7 cy Field

137.3 cy Stone



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Stage-Discharge for Pond SWB: Stormtech SC-740 (SWM-B)

Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)	Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)
99.80	0.00	0.00	0.00	100.32	0.75	0.75	0.00
99.81	0.75	0.75	0.00	100.33	0.75	0.75	0.00
99.82	0.75	0.75	0.00	100.34	0.75	0.75	0.00
99.83	0.75	0.75	0.00	100.35	0.75	0.75	0.00
99.84	0.75	0.75	0.00	100.36	0.75	0.75	0.00
99.85	0.75	0.75	0.00	100.37	0.75	0.75	0.00
99.86	0.75	0.75	0.00	100.38	0.75	0.75	0.00
99.87	0.75	0.75	0.00	100.39	0.75	0.75	0.00
99.88	0.75	0.75	0.00	100.40	0.75	0.75	0.00
99.89	0.75	0.75	0.00	100.41	0.75	0.75	0.00
99.90	0.75	0.75	0.00	100.42	0.75	0.75	0.00
99.91	0.75	0.75	0.00	100.43	0.75	0.75	0.00
99.92	0.75	0.75	0.00	100.44	0.75	0.75	0.00
99.93	0.75	0.75	0.00	100.45	0.75	0.75	0.00
99.94	0.75	0.75	0.00	100.46	0.75	0.75	0.00
99.95	0.75	0.75	0.00	100.47	0.75	0.75	0.00
99.96	0.75	0.75	0.00	100.48	0.75	0.75	0.00
99.97	0.75	0.75	0.00	100.49	0.75	0.75	0.00
99.98	0.75	0.75	0.00	100.50	0.75	0.75	0.00
99.99	0.75	0.75	0.00	100.51	0.75	0.75	0.00
100.00	0.75	0.75	0.00	100.52	0.75	0.75	0.00
100.01	0.75	0.75	0.00	100.53	0.75	0.75	0.00
100.02	0.75	0.75	0.00	100.54	0.75	0.75	0.00
100.03	0.75	0.75	0.00	100.55	0.75	0.75	0.00
100.04	0.75	0.75	0.00	100.56	0.75	0.75	0.00
100.05	0.75	0.75	0.00	100.57	0.75	0.75	0.00
100.06	0.75	0.75	0.00	100.58	0.75	0.75	0.00
100.07	0.75	0.75	0.00	100.59	0.75	0.75	0.00
100.08	0.75	0.75	0.00	100.60	0.75	0.75	0.00
100.09	0.75	0.75	0.00	100.61	0.75	0.75	0.00
100.10	0.75	0.75	0.00	100.62	0.75	0.75	0.00
100.11	0.75	0.75	0.00	100.63	0.75	0.75	0.00
100.12	0.75	0.75	0.00	100.64	0.75	0.75	0.00
100.13	0.75	0.75	0.00	100.65	0.75	0.75	0.00
100.14	0.75	0.75	0.00	100.66	0.75	0.75	0.00
100.15	0.75	0.75	0.00	100.67	0.75	0.75	0.00
100.16	0.75	0.75	0.00	100.68	0.75	0.75	0.00
100.17	0.75	0.75	0.00	100.69	0.75	0.75	0.00
100.18	0.75	0.75	0.00	100.70	0.75	0.75	0.00
100.19	0.75	0.75	0.00	100.71	0.75	0.75	0.00
100.20	0.75	0.75	0.00	100.72	0.75	0.75	0.00
100.21	0.75	0.75	0.00	100.73	0.75	0.75	0.00
100.22	0.75	0.75	0.00	100.74	0.75	0.75	0.00
100.23	0.75	0.75	0.00	100.75	0.75	0.75	0.00
100.24	0.75	0.75	0.00	100.76	0.75	0.75	0.00
100.25	0.75	0.75	0.00	100.77	0.75	0.75	0.00
100.26	0.75	0.75	0.00	100.78	0.75	0.75	0.00
100.27	0.75	0.75	0.00	100.79	0.75	0.75	0.00
100.28	0.75	0.75	0.00	100.80	0.75	0.75	0.00
100.29	0.75	0.75	0.00	100.81	0.75	0.75	0.00
100.30	0.75	0.75	0.00	100.82	0.75	0.75	0.00
100.31	0.75	0.75	0.00	100.83	0.75	0.75	0.00

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Stage-Discharge for Pond SWB: Stormtech SC-740 (SWM-B) (continued)

Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)	Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)
100.84	0.75	0.75	0.00	101.36	0.75	0.75	0.00
100.85	0.75	0.75	0.00	101.37	0.75	0.75	0.00
100.86	0.75	0.75	0.00	101.38	0.75	0.75	0.00
100.87	0.75	0.75	0.00	101.39	0.75	0.75	0.00
100.88	0.75	0.75	0.00	101.40	0.75	0.75	0.00
100.89	0.75	0.75	0.00	101.41	0.75	0.75	0.00
100.90	0.75	0.75	0.00	101.42	0.75	0.75	0.00
100.91	0.75	0.75	0.00	101.43	0.75	0.75	0.00
100.92	0.75	0.75	0.00	101.44	0.75	0.75	0.00
100.93	0.75	0.75	0.00	101.45	0.75	0.75	0.00
100.94	0.75	0.75	0.00	101.46	0.75	0.75	0.00
100.95	0.75	0.75	0.00	101.47	0.75	0.75	0.00
100.96	0.75	0.75	0.00	101.48	0.75	0.75	0.00
100.97	0.75	0.75	0.00	101.49	0.75	0.75	0.00
100.98	0.75	0.75	0.00	101.50	0.75	0.75	0.00
100.99	0.75	0.75	0.00	101.51	0.75	0.75	0.00
101.00	0.75	0.75	0.00	101.52	0.75	0.75	0.00
101.01	0.75	0.75	0.00	101.53	0.75	0.75	0.00
101.02	0.75	0.75	0.00	101.54	0.75	0.75	0.00
101.03	0.75	0.75	0.00	101.55	0.75	0.75	0.00
101.04	0.75	0.75	0.00	101.56	0.75	0.75	0.00
101.05	0.75	0.75	0.00	101.57	0.75	0.75	0.00
101.06	0.75	0.75	0.00	101.58	0.75	0.75	0.00
101.07	0.75	0.75	0.00	101.59	0.75	0.75	0.00
101.08	0.75	0.75	0.00	101.60	0.75	0.75	0.00
101.09	0.75	0.75	0.00	101.61	0.75	0.75	0.00
101.10	0.75	0.75	0.00	101.62	0.75	0.75	0.00
101.11	0.75	0.75	0.00	101.63	0.75	0.75	0.00
101.12	0.75	0.75	0.00	101.64	0.75	0.75	0.00
101.13	0.75	0.75	0.00	101.65	0.75	0.75	0.00
101.14	0.75	0.75	0.00	101.66	0.75	0.75	0.00
101.15	0.75	0.75	0.00	101.67	0.75	0.75	0.00
101.16	0.75	0.75	0.00	101.68	0.75	0.75	0.00
101.17	0.75	0.75	0.00	101.69	0.75	0.75	0.00
101.18	0.75	0.75	0.00	101.70	0.75	0.75	0.00
101.19	0.75	0.75	0.00	101.71	0.75	0.75	0.00
101.20	0.75	0.75	0.00	101.72	0.75	0.75	0.00
101.21	0.75	0.75	0.00	101.73	0.75	0.75	0.00
101.22	0.75	0.75	0.00	101.74	0.75	0.75	0.00
101.23	0.75	0.75	0.00	101.75	0.75	0.75	0.00
101.24	0.75	0.75	0.00	101.76	0.75	0.75	0.00
101.25	0.75	0.75	0.00	101.77	0.75	0.75	0.00
101.26	0.75	0.75	0.00	101.78	0.75	0.75	0.00
101.27	0.75	0.75	0.00	101.79	0.75	0.75	0.00
101.28	0.75	0.75	0.00	101.80	0.75	0.75	0.00
101.29	0.75	0.75	0.00	101.81	0.75	0.75	0.00
101.30	0.75	0.75	0.00	101.82	0.75	0.75	0.00
101.31	0.75	0.75	0.00	101.83	0.75	0.75	0.00
101.32	0.75	0.75	0.00	101.84	0.75	0.75	0.00
101.33	0.75	0.75	0.00	101.85	0.75	0.75	0.00
101.34	0.75	0.75	0.00	101.86	0.75	0.75	0.00
101.35	0.75	0.75	0.00	101.87	0.75	0.75	0.00

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Stage-Discharge for Pond SWB: Stormtech SC-740 (SWM-B) (continued)

Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)	Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)
101.88	0.75	0.75	0.00	102.40	0.75	0.75	0.00
101.89	0.75	0.75	0.00	102.41	0.75	0.75	0.00
101.90	0.75	0.75	0.00	102.42	0.75	0.75	0.00
101.91	0.75	0.75	0.00	102.43	0.75	0.75	0.00
101.92	0.75	0.75	0.00	102.44	0.75	0.75	0.00
101.93	0.75	0.75	0.00	102.45	0.75	0.75	0.00
101.94	0.75	0.75	0.00	102.46	0.75	0.75	0.00
101.95	0.75	0.75	0.00	102.47	0.75	0.75	0.00
101.96	0.75	0.75	0.00	102.48	0.75	0.75	0.00
101.97	0.75	0.75	0.00	102.49	0.75	0.75	0.00
101.98	0.75	0.75	0.00	102.50	0.75	0.75	0.00
101.99	0.75	0.75	0.00	102.51	0.75	0.75	0.00
102.00	0.75	0.75	0.00	102.52	0.75	0.75	0.00
102.01	0.75	0.75	0.00	102.53	0.75	0.75	0.00
102.02	0.75	0.75	0.00	102.54	0.75	0.75	0.00
102.03	0.75	0.75	0.00	102.55	0.75	0.75	0.00
102.04	0.75	0.75	0.00	102.56	0.75	0.75	0.00
102.05	0.75	0.75	0.00	102.57	0.75	0.75	0.00
102.06	0.75	0.75	0.00	102.58	0.75	0.75	0.00
102.07	0.75	0.75	0.00	102.59	0.75	0.75	0.00
102.08	0.75	0.75	0.00	102.60	0.75	0.75	0.00
102.09	0.75	0.75	0.00	102.61	0.76	0.75	0.01
102.10	0.75	0.75	0.00	102.62	0.78	0.75	0.03
102.11	0.75	0.75	0.00	102.63	0.80	0.75	0.06
102.12	0.75	0.75	0.00	102.64	0.84	0.75	0.09
102.13	0.75	0.75	0.00	102.65	0.87	0.75	0.13
102.14	0.75	0.75	0.00	102.66	0.91	0.75	0.16
102.15	0.75	0.75	0.00	102.67	0.95	0.75	0.21
102.16	0.75	0.75	0.00	102.68	1.00	0.75	0.25
102.17	0.75	0.75	0.00	102.69	1.05	0.75	0.30
102.18	0.75	0.75	0.00	102.70	1.10	0.75	0.35
102.19	0.75	0.75	0.00	102.71	1.15	0.75	0.41
102.20	0.75	0.75	0.00	102.72	1.21	0.75	0.47
102.21	0.75	0.75	0.00	102.73	1.27	0.75	0.52
102.22	0.75	0.75	0.00	102.74	1.33	0.75	0.59
102.23	0.75	0.75	0.00	102.75	1.40	0.75	0.65
102.24	0.75	0.75	0.00	102.76	1.46	0.75	0.72
102.25	0.75	0.75	0.00	102.77	1.53	0.75	0.79
102.26	0.75	0.75	0.00	102.78	1.60	0.75	0.86
102.27	0.75	0.75	0.00	102.79	1.67	0.75	0.93
102.28	0.75	0.75	0.00	102.80	1.75	0.75	1.00
102.29	0.75	0.75	0.00	102.81	1.83	0.75	1.08
102.30	0.75	0.75	0.00	102.82	1.91	0.75	1.16
102.31	0.75	0.75	0.00	102.83	1.99	0.75	1.24
102.32	0.75	0.75	0.00	102.84	2.07	0.75	1.33
102.33	0.75	0.75	0.00	102.85	2.16	0.75	1.41
102.34	0.75	0.75	0.00	102.86	2.25	0.75	1.50
102.35	0.75	0.75	0.00	102.87	2.34	0.75	1.59
102.36	0.75	0.75	0.00	102.88	2.43	0.75	1.69
102.37	0.75	0.75	0.00	102.89	2.53	0.75	1.78
102.38	0.75	0.75	0.00	102.90	2.63	0.75	1.88
102.39	0.75	0.75	0.00	102.91	2.72	0.75	1.98

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Stage-Discharge for Pond SWB: Stormtech SC-740 (SWM-B) (continued)

Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)
102.92	2.83	0.75	2.08
102.93	2.93	0.75	2.18
102.94	3.03	0.75	2.29
102.95	3.14	0.75	2.39
102.96	3.25	0.75	2.50
102.97	3.36	0.75	2.61
102.98	3.47	0.75	2.72
102.99	3.58	0.75	2.84
103.00	3.70	0.75	2.95
103.01	3.82	0.75	3.07
103.02	3.94	0.75	3.20
103.03	4.07	0.75	3.32
103.04	4.19	0.75	3.45
103.05	4.32	0.75	3.57
103.06	4.45	0.75	3.70
103.07	4.57	0.75	3.82
103.08	4.58	0.75	3.84
103.09	4.60	0.75	3.85
103.10	4.61	0.75	3.87
103.11	4.63	0.75	3.88
103.12	4.65	0.75	3.90
103.13	4.66	0.75	3.92
103.14	4.68	0.75	3.93
103.15	4.69	0.75	3.95
103.16	4.71	0.75	3.96
103.17	4.73	0.75	3.98
103.18	4.74	0.75	4.00
103.19	4.76	0.75	4.01
103.20	4.77	0.75	4.03
103.21	4.79	0.75	4.04
103.22	4.80	0.75	4.06
103.23	4.82	0.75	4.07
103.24	4.83	0.75	4.09
103.25	4.85	0.75	4.10
103.26	4.86	0.75	4.12
103.27	4.88	0.75	4.13
103.28	4.89	0.75	4.15
103.29	4.91	0.75	4.16
103.30	4.92	0.75	4.18

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Stage-Area-Storage for Pond SWB: Stormtech SC-740 (SWM-B)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
99.80	1,610	0	100.32	1,610	348
99.81	1,610	6	100.33	1,610	361
99.82	1,610	13	100.34	1,610	374
99.83	1,610	19	100.35	1,610	388
99.84	1,610	26	100.36	1,610	401
99.85	1,610	32	100.37	1,610	414
99.86	1,610	39	100.38	1,610	427
99.87	1,610	45	100.39	1,610	440
99.88	1,610	52	100.40	1,610	453
99.89	1,610	58	100.41	1,610	466
99.90	1,610	64	100.42	1,610	479
99.91	1,610	71	100.43	1,610	492
99.92	1,610	77	100.44	1,610	505
99.93	1,610	84	100.45	1,610	519
99.94	1,610	90	100.46	1,610	532
99.95	1,610	97	100.47	1,610	545
99.96	1,610	103	100.48	1,610	558
99.97	1,610	109	100.49	1,610	571
99.98	1,610	116	100.50	1,610	584
99.99	1,610	122	100.51	1,610	597
100.00	1,610	129	100.52	1,610	610
100.01	1,610	135	100.53	1,610	623
100.02	1,610	142	100.54	1,610	636
100.03	1,610	148	100.55	1,610	649
100.04	1,610	155	100.56	1,610	662
100.05	1,610	161	100.57	1,610	675
100.06	1,610	167	100.58	1,610	688
100.07	1,610	174	100.59	1,610	701
100.08	1,610	180	100.60	1,610	714
100.09	1,610	187	100.61	1,610	727
100.10	1,610	193	100.62	1,610	740
100.11	1,610	200	100.63	1,610	753
100.12	1,610	206	100.64	1,610	765
100.13	1,610	213	100.65	1,610	778
100.14	1,610	219	100.66	1,610	791
100.15	1,610	225	100.67	1,610	804
100.16	1,610	232	100.68	1,610	817
100.17	1,610	238	100.69	1,610	830
100.18	1,610	245	100.70	1,610	843
100.19	1,610	251	100.71	1,610	856
100.20	1,610	258	100.72	1,610	869
100.21	1,610	264	100.73	1,610	881
100.22	1,610	271	100.74	1,610	894
100.23	1,610	277	100.75	1,610	907
100.24	1,610	283	100.76	1,610	920
100.25	1,610	290	100.77	1,610	933
100.26	1,610	296	100.78	1,610	945
100.27	1,610	303	100.79	1,610	958
100.28	1,610	309	100.80	1,610	971
100.29	1,610	316	100.81	1,610	984
100.30	1,610	322	100.82	1,610	996
100.31	1,610	335	100.83	1,610	1,009

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Stage-Area-Storage for Pond SWB: Stormtech SC-740 (SWM-B) (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
100.84	1,610	1,022	101.36	1,610	1,666
100.85	1,610	1,035	101.37	1,610	1,678
100.86	1,610	1,047	101.38	1,610	1,690
100.87	1,610	1,060	101.39	1,610	1,702
100.88	1,610	1,073	101.40	1,610	1,714
100.89	1,610	1,085	101.41	1,610	1,726
100.90	1,610	1,098	101.42	1,610	1,738
100.91	1,610	1,111	101.43	1,610	1,750
100.92	1,610	1,123	101.44	1,610	1,761
100.93	1,610	1,136	101.45	1,610	1,773
100.94	1,610	1,148	101.46	1,610	1,785
100.95	1,610	1,161	101.47	1,610	1,797
100.96	1,610	1,174	101.48	1,610	1,809
100.97	1,610	1,186	101.49	1,610	1,821
100.98	1,610	1,199	101.50	1,610	1,832
100.99	1,610	1,211	101.51	1,610	1,844
101.00	1,610	1,224	101.52	1,610	1,856
101.01	1,610	1,236	101.53	1,610	1,867
101.02	1,610	1,249	101.54	1,610	1,879
101.03	1,610	1,261	101.55	1,610	1,891
101.04	1,610	1,274	101.56	1,610	1,902
101.05	1,610	1,286	101.57	1,610	1,914
101.06	1,610	1,299	101.58	1,610	1,926
101.07	1,610	1,311	101.59	1,610	1,937
101.08	1,610	1,324	101.60	1,610	1,949
101.09	1,610	1,336	101.61	1,610	1,960
101.10	1,610	1,348	101.62	1,610	1,972
101.11	1,610	1,361	101.63	1,610	1,983
101.12	1,610	1,373	101.64	1,610	1,995
101.13	1,610	1,386	101.65	1,610	2,006
101.14	1,610	1,398	101.66	1,610	2,018
101.15	1,610	1,410	101.67	1,610	2,029
101.16	1,610	1,423	101.68	1,610	2,041
101.17	1,610	1,435	101.69	1,610	2,052
101.18	1,610	1,447	101.70	1,610	2,064
101.19	1,610	1,459	101.71	1,610	2,075
101.20	1,610	1,472	101.72	1,610	2,086
101.21	1,610	1,484	101.73	1,610	2,097
101.22	1,610	1,496	101.74	1,610	2,109
101.23	1,610	1,508	101.75	1,610	2,120
101.24	1,610	1,521	101.76	1,610	2,131
101.25	1,610	1,533	101.77	1,610	2,142
101.26	1,610	1,545	101.78	1,610	2,154
101.27	1,610	1,557	101.79	1,610	2,165
101.28	1,610	1,569	101.80	1,610	2,176
101.29	1,610	1,581	101.81	1,610	2,187
101.30	1,610	1,594	101.82	1,610	2,198
101.31	1,610	1,606	101.83	1,610	2,209
101.32	1,610	1,618	101.84	1,610	2,220
101.33	1,610	1,630	101.85	1,610	2,231
101.34	1,610	1,642	101.86	1,610	2,242
101.35	1,610	1,654	101.87	1,610	2,253

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Type III 24-hr 25-Year Rainfall=6.00"

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Stage-Area-Storage for Pond SWB: Stormtech SC-740 (SWM-B) (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
101.88	1,610	2,264	102.40	1,610	2,788
101.89	1,610	2,275	102.41	1,610	2,797
101.90	1,610	2,286	102.42	1,610	2,806
101.91	1,610	2,297	102.43	1,610	2,815
101.92	1,610	2,308	102.44	1,610	2,824
101.93	1,610	2,319	102.45	1,610	2,832
101.94	1,610	2,329	102.46	1,610	2,841
101.95	1,610	2,340	102.47	1,610	2,850
101.96	1,610	2,351	102.48	1,610	2,858
101.97	1,610	2,362	102.49	1,610	2,866
101.98	1,610	2,372	102.50	1,610	2,875
101.99	1,610	2,383	102.51	1,610	2,883
102.00	1,610	2,393	102.52	1,610	2,891
102.01	1,610	2,404	102.53	1,610	2,899
102.02	1,610	2,415	102.54	1,610	2,907
102.03	1,610	2,425	102.55	1,610	2,915
102.04	1,610	2,435	102.56	1,610	2,923
102.05	1,610	2,446	102.57	1,610	2,930
102.06	1,610	2,456	102.58	1,610	2,938
102.07	1,610	2,467	102.59	1,610	2,945
102.08	1,610	2,477	102.60	1,610	2,953
102.09	1,610	2,487	102.61	1,610	2,960
102.10	1,610	2,498	102.62	1,610	2,967
102.11	1,610	2,508	102.63	1,610	2,975
102.12	1,610	2,518	102.64	1,610	2,982
102.13	1,610	2,528	102.65	1,610	2,989
102.14	1,610	2,538	102.66	1,610	2,996
102.15	1,610	2,548	102.67	1,610	3,003
102.16	1,610	2,558	102.68	1,610	3,010
102.17	1,610	2,568	102.69	1,610	3,017
102.18	1,610	2,578	102.70	1,610	3,023
102.19	1,610	2,588	102.71	1,610	3,030
102.20	1,610	2,598	102.72	1,610	3,037
102.21	1,610	2,608	102.73	1,610	3,044
102.22	1,610	2,618	102.74	1,610	3,051
102.23	1,610	2,628	102.75	1,610	3,057
102.24	1,610	2,638	102.76	1,610	3,064
102.25	1,610	2,647	102.77	1,610	3,070
102.26	1,610	2,657	102.78	1,610	3,077
102.27	1,610	2,667	102.79	1,610	3,083
102.28	1,610	2,676	102.80	1,610	3,090
102.29	1,610	2,686	102.81	1,610	3,096
102.30	1,610	2,695	102.82	1,610	3,103
102.31	1,610	2,705	102.83	1,610	3,109
102.32	1,610	2,714	102.84	1,610	3,116
102.33	1,610	2,724	102.85	1,610	3,122
102.34	1,610	2,733	102.86	1,610	3,129
102.35	1,610	2,742	102.87	1,610	3,135
102.36	1,610	2,752	102.88	1,610	3,141
102.37	1,610	2,761	102.89	1,610	3,148
102.38	1,610	2,770	102.90	1,610	3,154
102.39	1,610	2,779	102.91	1,610	3,161

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Type III 24-hr 25-Year Rainfall=6.00"

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Stage-Area-Storage for Pond SWB: Stormtech SC-740 (SWM-B) (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
102.92	1,610	3,167
102.93	1,610	3,174
102.94	1,610	3,180
102.95	1,610	3,187
102.96	1,610	3,193
102.97	1,610	3,199
102.98	1,610	3,206
102.99	1,610	3,212
103.00	1,610	3,219
103.01	1,610	3,225
103.02	1,610	3,232
103.03	1,610	3,238
103.04	1,610	3,245
103.05	1,610	3,251
103.06	1,610	3,257
103.07	1,610	3,264
103.08	1,610	3,270
103.09	1,610	3,277
103.10	1,610	3,283
103.11	1,610	3,290
103.12	1,610	3,296
103.13	1,610	3,302
103.14	1,610	3,309
103.15	1,610	3,315
103.16	1,610	3,322
103.17	1,610	3,328
103.18	1,610	3,335
103.19	1,610	3,341
103.20	1,610	3,348
103.21	1,610	3,354
103.22	1,610	3,360
103.23	1,610	3,367
103.24	1,610	3,373
103.25	1,610	3,380
103.26	1,610	3,386
103.27	1,610	3,393
103.28	1,610	3,399
103.29	1,610	3,406
103.30	1,610	3,412

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Type III 24-hr 25-Year Rainfall=6.00"

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Summary for Link 1L: DA3 Discharge

Inflow Area = 34,600 sf, 89.89% Impervious, Inflow Depth = 0.36" for 25-Year event
Inflow = 0.35 cfs @ 12.07 hrs, Volume= 1,036 cf
Primary = 0.35 cfs @ 12.07 hrs, Volume= 1,036 cf, Atten= 0%, Lag= 0.0 min
Routed to Link TSD : Total Site Discharge

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

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Type III 24-hr 25-Year Rainfall=6.00"

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Summary for Link TSD: Total Site Discharge

Inflow Area = 45,484 sf, 72.47% Impervious, Inflow Depth = 0.53" for 25-Year event
Inflow = 0.59 cfs @ 12.08 hrs, Volume= 2,014 cf
Primary = 0.59 cfs @ 12.08 hrs, Volume= 2,014 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

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Type III 24-hr 100-Year Rainfall=7.71"

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Time span=0.00-72.00 hrs, dt=0.02 hrs, 3601 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind method - Pond routing by Stor-Ind method

Subcatchment DA1: DA1 Runoff Area=8,173 sf 22.75% Impervious Runoff Depth=2.28"
Tc=5.0 min CN=52 Runoff=0.48 cfs 1,551 cf

Subcatchment DA2: DA2 Runoff Area=2,711 sf 0.00% Impervious Runoff Depth=1.04"
Tc=5.0 min CN=39 Runoff=0.05 cfs 235 cf

Subcatchment DA3A: DA3A Runoff Area=8,592 sf 100.00% Impervious Runoff Depth=7.47"
Tc=5.0 min CN=98 Runoff=1.54 cfs 5,349 cf

Subcatchment DA3B: DA3B Runoff Area=22,535 sf 89.57% Impervious Runoff Depth=6.76"
Tc=5.0 min CN=92 Runoff=3.90 cfs 12,688 cf

Subcatchment DA3C: DA3C Runoff Area=3,473 sf 66.95% Impervious Runoff Depth=5.12"
Tc=5.0 min CN=78 Runoff=0.49 cfs 1,483 cf

Pond SWA: Stormtech SC-740 (SWM-A) Peak Elev=102.52' Storage=1,158 cf Inflow=1.54 cfs 5,349 cf
Discarded=0.31 cfs 5,349 cf Primary=0.00 cfs 0 cf Outflow=0.31 cfs 5,349 cf

Pond SWB: Stormtech SC-740 (SWM-B) Peak Elev=102.65' Storage=2,990 cf Inflow=3.90 cfs 12,688 cf
Discarded=0.75 cfs 12,640 cf Primary=0.14 cfs 48 cf Outflow=0.88 cfs 12,688 cf

Link 1L: DA3 Discharge Inflow=0.49 cfs 1,531 cf
Primary=0.49 cfs 1,531 cf

Link TSD: Total Site Discharge Inflow=1.01 cfs 3,317 cf
Primary=1.01 cfs 3,317 cf

Total Runoff Area = 45,484 sf Runoff Volume = 21,306 cf Average Runoff Depth = 5.62"
27.53% Pervious = 12,523 sf 72.47% Impervious = 32,961 sf

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Type III 24-hr 100-Year Rainfall=7.71"

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Summary for Subcatchment DA1: DA1

Runoff = 0.48 cfs @ 12.08 hrs, Volume= 1,551 cf, Depth= 2.28"

Routed to Link TSD : Total Site Discharge

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

Type III 24-hr 100-Year Rainfall=7.71"

Area (sf)	CN	Description
1,859	98	Paved roads w/curbs & sewers, HSG A
6,314	39	>75% Grass cover, Good, HSG A
8,173	52	Weighted Average
6,314		77.25% Pervious Area
1,859		22.75% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry, DIRECT

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Type III 24-hr 100-Year Rainfall=7.71"

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Summary for Subcatchment DA2: DA2

Runoff = 0.05 cfs @ 12.11 hrs, Volume= 235 cf, Depth= 1.04"
Routed to Link TSD : Total Site Discharge

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Type III 24-hr 100-Year Rainfall=7.71"

Area (sf)	CN	Description
2,711	39	>75% Grass cover, Good, HSG A
2,711		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry, DIRECT

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Type III 24-hr 100-Year Rainfall=7.71"

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Summary for Subcatchment DA3A: DA3A

Runoff = 1.54 cfs @ 12.07 hrs, Volume= 5,349 cf, Depth= 7.47"
Routed to Pond SWA : Stormtech SC-740 (SWM-A)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
Type III 24-hr 100-Year Rainfall=7.71"

Area (sf)	CN	Description
8,592	98	Roofs, HSG A
8,592		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry, DIRECT

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Type III 24-hr 100-Year Rainfall=7.71"

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Summary for Subcatchment DA3B: DA3B

Runoff = 3.90 cfs @ 12.07 hrs, Volume= 12,688 cf, Depth= 6.76"

Routed to Pond SWB : Stormtech SC-740 (SWM-B)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

Type III 24-hr 100-Year Rainfall=7.71"

Area (sf)	CN	Description
20,185	98	Paved parking, HSG A
2,350	39	>75% Grass cover, Good, HSG A
22,535	92	Weighted Average
2,350		10.43% Pervious Area
20,185		89.57% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry, DIRECT

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Type III 24-hr 100-Year Rainfall=7.71"

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Summary for Subcatchment DA3C: DA3C

Runoff = 0.49 cfs @ 12.07 hrs, Volume= 1,483 cf, Depth= 5.12"

Routed to Link 1L : DA3 Discharge

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

Type III 24-hr 100-Year Rainfall=7.71"

Area (sf)	CN	Description
2,325	98	Paved roads w/curbs & sewers, HSG A
1,148	39	>75% Grass cover, Good, HSG A
3,473	78	Weighted Average
1,148		33.05% Pervious Area
2,325		66.95% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry, DIRECT

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Type III 24-hr 100-Year Rainfall=7.71"

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Summary for Pond SWA: Stormtech SC-740 (SWM-A)

Inflow Area = 8,592 sf, 100.00% Impervious, Inflow Depth = 7.47" for 100-Year event
 Inflow = 1.54 cfs @ 12.07 hrs, Volume= 5,349 cf
 Outflow = 0.31 cfs @ 11.68 hrs, Volume= 5,349 cf, Atten= 80%, Lag= 0.0 min
 Discarded = 0.31 cfs @ 11.68 hrs, Volume= 5,349 cf
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
 Routed to Link 1L : DA3 Discharge

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
 Peak Elev= 102.52' @ 12.48 hrs Surf.Area= 666 sf Storage= 1,158 cf

Plug-Flow detention time= 17.8 min calculated for 5,347 cf (100% of inflow)
 Center-of-Mass det. time= 17.8 min (758.5 - 740.8)

Volume	Invert	Avail.Storage	Storage Description
#1A	99.80'	639 cf	11.00'W x 60.58'L x 3.50'H Field A 2,332 cf Overall - 735 cf Embedded = 1,597 cf x 40.0% Voids
#2A	100.30'	735 cf	ADS_StormTech SC-740 +Cap x 16 Inside #1 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap 16 Chambers in 2 Rows
		1,374 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Primary	101.30'	12.0" Round Outlet Pipe L= 63.0' CPP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 101.30' / 100.90' S= 0.0063 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf
#2	Device 1	102.60'	4.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#3	Discarded	99.80'	20.000 in/hr Exfiltration over Surface area

Discarded OutFlow Max=0.31 cfs @ 11.68 hrs HW=99.84' (Free Discharge)
 ↑**3=Exfiltration** (Exfiltration Controls 0.31 cfs)

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=99.80' (Free Discharge)
 ↑**1=Outlet Pipe** (Controls 0.00 cfs)
 ↑**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

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Type III 24-hr 100-Year Rainfall=7.71"

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Pond SWA: Stormtech SC-740 (SWM-A) - Chamber Wizard Field A

Chamber Model = ADS_StormTech SC-740 +Cap (ADS StormTech® SC-740 with cap length)

Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf

Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap

51.0" Wide + 6.0" Spacing = 57.0" C-C Row Spacing

8 Chambers/Row x 7.12' Long +0.81' Cap Length x 2 = 58.58' Row Length +12.0" End Stone x 2 = 60.58' Base Length

2 Rows x 51.0" Wide + 6.0" Spacing x 1 + 12.0" Side Stone x 2 = 11.00' Base Width

6.0" Stone Base + 30.0" Chamber Height + 6.0" Stone Cover = 3.50' Field Height

16 Chambers x 45.9 cf = 735.0 cf Chamber Storage

2,332.2 cf Field - 735.0 cf Chambers = 1,597.2 cf Stone x 40.0% Voids = 638.9 cf Stone Storage

Chamber Storage + Stone Storage = 1,373.9 cf = 0.032 af

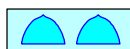
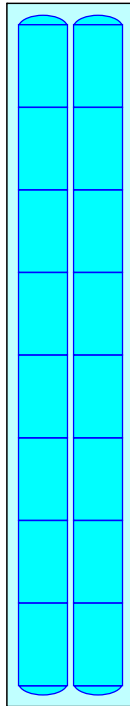
Overall Storage Efficiency = 58.9%

Overall System Size = 60.58' x 11.00' x 3.50'

16 Chambers

86.4 cy Field

59.2 cy Stone



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Type III 24-hr 100-Year Rainfall=7.71"

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Stage-Discharge for Pond SWA: Stormtech SC-740 (SWM-A)

Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)	Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)
99.80	0.00	0.00	0.00	100.32	0.31	0.31	0.00
99.81	0.31	0.31	0.00	100.33	0.31	0.31	0.00
99.82	0.31	0.31	0.00	100.34	0.31	0.31	0.00
99.83	0.31	0.31	0.00	100.35	0.31	0.31	0.00
99.84	0.31	0.31	0.00	100.36	0.31	0.31	0.00
99.85	0.31	0.31	0.00	100.37	0.31	0.31	0.00
99.86	0.31	0.31	0.00	100.38	0.31	0.31	0.00
99.87	0.31	0.31	0.00	100.39	0.31	0.31	0.00
99.88	0.31	0.31	0.00	100.40	0.31	0.31	0.00
99.89	0.31	0.31	0.00	100.41	0.31	0.31	0.00
99.90	0.31	0.31	0.00	100.42	0.31	0.31	0.00
99.91	0.31	0.31	0.00	100.43	0.31	0.31	0.00
99.92	0.31	0.31	0.00	100.44	0.31	0.31	0.00
99.93	0.31	0.31	0.00	100.45	0.31	0.31	0.00
99.94	0.31	0.31	0.00	100.46	0.31	0.31	0.00
99.95	0.31	0.31	0.00	100.47	0.31	0.31	0.00
99.96	0.31	0.31	0.00	100.48	0.31	0.31	0.00
99.97	0.31	0.31	0.00	100.49	0.31	0.31	0.00
99.98	0.31	0.31	0.00	100.50	0.31	0.31	0.00
99.99	0.31	0.31	0.00	100.51	0.31	0.31	0.00
100.00	0.31	0.31	0.00	100.52	0.31	0.31	0.00
100.01	0.31	0.31	0.00	100.53	0.31	0.31	0.00
100.02	0.31	0.31	0.00	100.54	0.31	0.31	0.00
100.03	0.31	0.31	0.00	100.55	0.31	0.31	0.00
100.04	0.31	0.31	0.00	100.56	0.31	0.31	0.00
100.05	0.31	0.31	0.00	100.57	0.31	0.31	0.00
100.06	0.31	0.31	0.00	100.58	0.31	0.31	0.00
100.07	0.31	0.31	0.00	100.59	0.31	0.31	0.00
100.08	0.31	0.31	0.00	100.60	0.31	0.31	0.00
100.09	0.31	0.31	0.00	100.61	0.31	0.31	0.00
100.10	0.31	0.31	0.00	100.62	0.31	0.31	0.00
100.11	0.31	0.31	0.00	100.63	0.31	0.31	0.00
100.12	0.31	0.31	0.00	100.64	0.31	0.31	0.00
100.13	0.31	0.31	0.00	100.65	0.31	0.31	0.00
100.14	0.31	0.31	0.00	100.66	0.31	0.31	0.00
100.15	0.31	0.31	0.00	100.67	0.31	0.31	0.00
100.16	0.31	0.31	0.00	100.68	0.31	0.31	0.00
100.17	0.31	0.31	0.00	100.69	0.31	0.31	0.00
100.18	0.31	0.31	0.00	100.70	0.31	0.31	0.00
100.19	0.31	0.31	0.00	100.71	0.31	0.31	0.00
100.20	0.31	0.31	0.00	100.72	0.31	0.31	0.00
100.21	0.31	0.31	0.00	100.73	0.31	0.31	0.00
100.22	0.31	0.31	0.00	100.74	0.31	0.31	0.00
100.23	0.31	0.31	0.00	100.75	0.31	0.31	0.00
100.24	0.31	0.31	0.00	100.76	0.31	0.31	0.00
100.25	0.31	0.31	0.00	100.77	0.31	0.31	0.00
100.26	0.31	0.31	0.00	100.78	0.31	0.31	0.00
100.27	0.31	0.31	0.00	100.79	0.31	0.31	0.00
100.28	0.31	0.31	0.00	100.80	0.31	0.31	0.00
100.29	0.31	0.31	0.00	100.81	0.31	0.31	0.00
100.30	0.31	0.31	0.00	100.82	0.31	0.31	0.00
100.31	0.31	0.31	0.00	100.83	0.31	0.31	0.00

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Stage-Discharge for Pond SWA: Stormtech SC-740 (SWM-A) (continued)

Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)	Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)
100.84	0.31	0.31	0.00	101.36	0.31	0.31	0.00
100.85	0.31	0.31	0.00	101.37	0.31	0.31	0.00
100.86	0.31	0.31	0.00	101.38	0.31	0.31	0.00
100.87	0.31	0.31	0.00	101.39	0.31	0.31	0.00
100.88	0.31	0.31	0.00	101.40	0.31	0.31	0.00
100.89	0.31	0.31	0.00	101.41	0.31	0.31	0.00
100.90	0.31	0.31	0.00	101.42	0.31	0.31	0.00
100.91	0.31	0.31	0.00	101.43	0.31	0.31	0.00
100.92	0.31	0.31	0.00	101.44	0.31	0.31	0.00
100.93	0.31	0.31	0.00	101.45	0.31	0.31	0.00
100.94	0.31	0.31	0.00	101.46	0.31	0.31	0.00
100.95	0.31	0.31	0.00	101.47	0.31	0.31	0.00
100.96	0.31	0.31	0.00	101.48	0.31	0.31	0.00
100.97	0.31	0.31	0.00	101.49	0.31	0.31	0.00
100.98	0.31	0.31	0.00	101.50	0.31	0.31	0.00
100.99	0.31	0.31	0.00	101.51	0.31	0.31	0.00
101.00	0.31	0.31	0.00	101.52	0.31	0.31	0.00
101.01	0.31	0.31	0.00	101.53	0.31	0.31	0.00
101.02	0.31	0.31	0.00	101.54	0.31	0.31	0.00
101.03	0.31	0.31	0.00	101.55	0.31	0.31	0.00
101.04	0.31	0.31	0.00	101.56	0.31	0.31	0.00
101.05	0.31	0.31	0.00	101.57	0.31	0.31	0.00
101.06	0.31	0.31	0.00	101.58	0.31	0.31	0.00
101.07	0.31	0.31	0.00	101.59	0.31	0.31	0.00
101.08	0.31	0.31	0.00	101.60	0.31	0.31	0.00
101.09	0.31	0.31	0.00	101.61	0.31	0.31	0.00
101.10	0.31	0.31	0.00	101.62	0.31	0.31	0.00
101.11	0.31	0.31	0.00	101.63	0.31	0.31	0.00
101.12	0.31	0.31	0.00	101.64	0.31	0.31	0.00
101.13	0.31	0.31	0.00	101.65	0.31	0.31	0.00
101.14	0.31	0.31	0.00	101.66	0.31	0.31	0.00
101.15	0.31	0.31	0.00	101.67	0.31	0.31	0.00
101.16	0.31	0.31	0.00	101.68	0.31	0.31	0.00
101.17	0.31	0.31	0.00	101.69	0.31	0.31	0.00
101.18	0.31	0.31	0.00	101.70	0.31	0.31	0.00
101.19	0.31	0.31	0.00	101.71	0.31	0.31	0.00
101.20	0.31	0.31	0.00	101.72	0.31	0.31	0.00
101.21	0.31	0.31	0.00	101.73	0.31	0.31	0.00
101.22	0.31	0.31	0.00	101.74	0.31	0.31	0.00
101.23	0.31	0.31	0.00	101.75	0.31	0.31	0.00
101.24	0.31	0.31	0.00	101.76	0.31	0.31	0.00
101.25	0.31	0.31	0.00	101.77	0.31	0.31	0.00
101.26	0.31	0.31	0.00	101.78	0.31	0.31	0.00
101.27	0.31	0.31	0.00	101.79	0.31	0.31	0.00
101.28	0.31	0.31	0.00	101.80	0.31	0.31	0.00
101.29	0.31	0.31	0.00	101.81	0.31	0.31	0.00
101.30	0.31	0.31	0.00	101.82	0.31	0.31	0.00
101.31	0.31	0.31	0.00	101.83	0.31	0.31	0.00
101.32	0.31	0.31	0.00	101.84	0.31	0.31	0.00
101.33	0.31	0.31	0.00	101.85	0.31	0.31	0.00
101.34	0.31	0.31	0.00	101.86	0.31	0.31	0.00
101.35	0.31	0.31	0.00	101.87	0.31	0.31	0.00

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Stage-Discharge for Pond SWA: Stormtech SC-740 (SWM-A) (continued)

Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)	Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)
101.88	0.31	0.31	0.00	102.40	0.31	0.31	0.00
101.89	0.31	0.31	0.00	102.41	0.31	0.31	0.00
101.90	0.31	0.31	0.00	102.42	0.31	0.31	0.00
101.91	0.31	0.31	0.00	102.43	0.31	0.31	0.00
101.92	0.31	0.31	0.00	102.44	0.31	0.31	0.00
101.93	0.31	0.31	0.00	102.45	0.31	0.31	0.00
101.94	0.31	0.31	0.00	102.46	0.31	0.31	0.00
101.95	0.31	0.31	0.00	102.47	0.31	0.31	0.00
101.96	0.31	0.31	0.00	102.48	0.31	0.31	0.00
101.97	0.31	0.31	0.00	102.49	0.31	0.31	0.00
101.98	0.31	0.31	0.00	102.50	0.31	0.31	0.00
101.99	0.31	0.31	0.00	102.51	0.31	0.31	0.00
102.00	0.31	0.31	0.00	102.52	0.31	0.31	0.00
102.01	0.31	0.31	0.00	102.53	0.31	0.31	0.00
102.02	0.31	0.31	0.00	102.54	0.31	0.31	0.00
102.03	0.31	0.31	0.00	102.55	0.31	0.31	0.00
102.04	0.31	0.31	0.00	102.56	0.31	0.31	0.00
102.05	0.31	0.31	0.00	102.57	0.31	0.31	0.00
102.06	0.31	0.31	0.00	102.58	0.31	0.31	0.00
102.07	0.31	0.31	0.00	102.59	0.31	0.31	0.00
102.08	0.31	0.31	0.00	102.60	0.31	0.31	0.00
102.09	0.31	0.31	0.00	102.61	0.32	0.31	0.01
102.10	0.31	0.31	0.00	102.62	0.34	0.31	0.03
102.11	0.31	0.31	0.00	102.63	0.37	0.31	0.06
102.12	0.31	0.31	0.00	102.64	0.40	0.31	0.09
102.13	0.31	0.31	0.00	102.65	0.43	0.31	0.13
102.14	0.31	0.31	0.00	102.66	0.47	0.31	0.16
102.15	0.31	0.31	0.00	102.67	0.52	0.31	0.21
102.16	0.31	0.31	0.00	102.68	0.56	0.31	0.25
102.17	0.31	0.31	0.00	102.69	0.61	0.31	0.30
102.18	0.31	0.31	0.00	102.70	0.66	0.31	0.35
102.19	0.31	0.31	0.00	102.71	0.72	0.31	0.41
102.20	0.31	0.31	0.00	102.72	0.77	0.31	0.47
102.21	0.31	0.31	0.00	102.73	0.83	0.31	0.52
102.22	0.31	0.31	0.00	102.74	0.90	0.31	0.59
102.23	0.31	0.31	0.00	102.75	0.96	0.31	0.65
102.24	0.31	0.31	0.00	102.76	1.03	0.31	0.72
102.25	0.31	0.31	0.00	102.77	1.09	0.31	0.79
102.26	0.31	0.31	0.00	102.78	1.16	0.31	0.86
102.27	0.31	0.31	0.00	102.79	1.24	0.31	0.93
102.28	0.31	0.31	0.00	102.80	1.31	0.31	1.00
102.29	0.31	0.31	0.00	102.81	1.39	0.31	1.08
102.30	0.31	0.31	0.00	102.82	1.47	0.31	1.16
102.31	0.31	0.31	0.00	102.83	1.55	0.31	1.24
102.32	0.31	0.31	0.00	102.84	1.64	0.31	1.33
102.33	0.31	0.31	0.00	102.85	1.72	0.31	1.41
102.34	0.31	0.31	0.00	102.86	1.81	0.31	1.50
102.35	0.31	0.31	0.00	102.87	1.90	0.31	1.59
102.36	0.31	0.31	0.00	102.88	2.00	0.31	1.69
102.37	0.31	0.31	0.00	102.89	2.09	0.31	1.78
102.38	0.31	0.31	0.00	102.90	2.19	0.31	1.88
102.39	0.31	0.31	0.00	102.91	2.29	0.31	1.98

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Stage-Discharge for Pond SWA: Stormtech SC-740 (SWM-A) (continued)

Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)
102.92	2.39	0.31	2.08
102.93	2.49	0.31	2.18
102.94	2.60	0.31	2.29
102.95	2.70	0.31	2.39
102.96	2.81	0.31	2.50
102.97	2.92	0.31	2.61
102.98	3.03	0.31	2.72
102.99	3.15	0.31	2.84
103.00	3.26	0.31	2.95
103.01	3.38	0.31	3.07
103.02	3.51	0.31	3.20
103.03	3.63	0.31	3.32
103.04	3.75	0.31	3.45
103.05	3.88	0.31	3.57
103.06	4.01	0.31	3.70
103.07	4.13	0.31	3.82
103.08	4.14	0.31	3.84
103.09	4.16	0.31	3.85
103.10	4.18	0.31	3.87
103.11	4.19	0.31	3.88
103.12	4.21	0.31	3.90
103.13	4.23	0.31	3.92
103.14	4.24	0.31	3.93
103.15	4.26	0.31	3.95
103.16	4.27	0.31	3.96
103.17	4.29	0.31	3.98
103.18	4.30	0.31	4.00
103.19	4.32	0.31	4.01
103.20	4.33	0.31	4.03
103.21	4.35	0.31	4.04
103.22	4.37	0.31	4.06
103.23	4.38	0.31	4.07
103.24	4.40	0.31	4.09
103.25	4.41	0.31	4.10
103.26	4.43	0.31	4.12
103.27	4.44	0.31	4.13
103.28	4.46	0.31	4.15
103.29	4.47	0.31	4.16
103.30	4.49	0.31	4.18

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Stage-Area-Storage for Pond SWA: Stormtech SC-740 (SWM-A)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
99.80	666	0	100.32	666	144
99.81	666	3	100.33	666	149
99.82	666	5	100.34	666	154
99.83	666	8	100.35	666	159
99.84	666	11	100.36	666	165
99.85	666	13	100.37	666	170
99.86	666	16	100.38	666	175
99.87	666	19	100.39	666	180
99.88	666	21	100.40	666	185
99.89	666	24	100.41	666	191
99.90	666	27	100.42	666	196
99.91	666	29	100.43	666	201
99.92	666	32	100.44	666	206
99.93	666	35	100.45	666	211
99.94	666	37	100.46	666	216
99.95	666	40	100.47	666	222
99.96	666	43	100.48	666	227
99.97	666	45	100.49	666	232
99.98	666	48	100.50	666	237
99.99	666	51	100.51	666	242
100.00	666	53	100.52	666	248
100.01	666	56	100.53	666	253
100.02	666	59	100.54	666	258
100.03	666	61	100.55	666	263
100.04	666	64	100.56	666	268
100.05	666	67	100.57	666	273
100.06	666	69	100.58	666	279
100.07	666	72	100.59	666	284
100.08	666	75	100.60	666	289
100.09	666	77	100.61	666	294
100.10	666	80	100.62	666	299
100.11	666	83	100.63	666	304
100.12	666	85	100.64	666	309
100.13	666	88	100.65	666	315
100.14	666	91	100.66	666	320
100.15	666	93	100.67	666	325
100.16	666	96	100.68	666	330
100.17	666	99	100.69	666	335
100.18	666	101	100.70	666	340
100.19	666	104	100.71	666	345
100.20	666	107	100.72	666	350
100.21	666	109	100.73	666	355
100.22	666	112	100.74	666	361
100.23	666	115	100.75	666	366
100.24	666	117	100.76	666	371
100.25	666	120	100.77	666	376
100.26	666	123	100.78	666	381
100.27	666	125	100.79	666	386
100.28	666	128	100.80	666	391
100.29	666	131	100.81	666	396
100.30	666	133	100.82	666	401
100.31	666	138	100.83	666	406

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Stage-Area-Storage for Pond SWA: Stormtech SC-740 (SWM-A) (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
100.84	666	411	101.36	666	668
100.85	666	416	101.37	666	672
100.86	666	421	101.38	666	677
100.87	666	426	101.39	666	682
100.88	666	431	101.40	666	687
100.89	666	437	101.41	666	692
100.90	666	442	101.42	666	696
100.91	666	447	101.43	666	701
100.92	666	452	101.44	666	706
100.93	666	457	101.45	666	710
100.94	666	462	101.46	666	715
100.95	666	467	101.47	666	720
100.96	666	472	101.48	666	725
100.97	666	477	101.49	666	729
100.98	666	482	101.50	666	734
100.99	666	487	101.51	666	739
101.00	666	492	101.52	666	743
101.01	666	497	101.53	666	748
101.02	666	502	101.54	666	753
101.03	666	507	101.55	666	757
101.04	666	512	101.56	666	762
101.05	666	516	101.57	666	767
101.06	666	521	101.58	666	771
101.07	666	526	101.59	666	776
101.08	666	531	101.60	666	781
101.09	666	536	101.61	666	785
101.10	666	541	101.62	666	790
101.11	666	546	101.63	666	794
101.12	666	551	101.64	666	799
101.13	666	556	101.65	666	804
101.14	666	561	101.66	666	808
101.15	666	566	101.67	666	813
101.16	666	571	101.68	666	817
101.17	666	576	101.69	666	822
101.18	666	581	101.70	666	826
101.19	666	585	101.71	666	831
101.20	666	590	101.72	666	835
101.21	666	595	101.73	666	840
101.22	666	600	101.74	666	844
101.23	666	605	101.75	666	849
101.24	666	610	101.76	666	853
101.25	666	615	101.77	666	858
101.26	666	619	101.78	666	862
101.27	666	624	101.79	666	867
101.28	666	629	101.80	666	871
101.29	666	634	101.81	666	876
101.30	666	639	101.82	666	880
101.31	666	644	101.83	666	885
101.32	666	648	101.84	666	889
101.33	666	653	101.85	666	893
101.34	666	658	101.86	666	898
101.35	666	663	101.87	666	902

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Stage-Area-Storage for Pond SWA: Stormtech SC-740 (SWM-A) (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
101.88	666	907	102.40	666	1,117
101.89	666	911	102.41	666	1,121
101.90	666	915	102.42	666	1,124
101.91	666	920	102.43	666	1,128
101.92	666	924	102.44	666	1,132
101.93	666	928	102.45	666	1,135
101.94	666	933	102.46	666	1,139
101.95	666	937	102.47	666	1,142
101.96	666	941	102.48	666	1,146
101.97	666	946	102.49	666	1,149
101.98	666	950	102.50	666	1,152
101.99	666	954	102.51	666	1,156
102.00	666	958	102.52	666	1,159
102.01	666	963	102.53	666	1,162
102.02	666	967	102.54	666	1,165
102.03	666	971	102.55	666	1,169
102.04	666	975	102.56	666	1,172
102.05	666	979	102.57	666	1,175
102.06	666	984	102.58	666	1,178
102.07	666	988	102.59	666	1,181
102.08	666	992	102.60	666	1,184
102.09	666	996	102.61	666	1,187
102.10	666	1,000	102.62	666	1,190
102.11	666	1,004	102.63	666	1,193
102.12	666	1,008	102.64	666	1,196
102.13	666	1,012	102.65	666	1,199
102.14	666	1,016	102.66	666	1,202
102.15	666	1,021	102.67	666	1,205
102.16	666	1,025	102.68	666	1,208
102.17	666	1,029	102.69	666	1,210
102.18	666	1,033	102.70	666	1,213
102.19	666	1,037	102.71	666	1,216
102.20	666	1,041	102.72	666	1,219
102.21	666	1,045	102.73	666	1,222
102.22	666	1,049	102.74	666	1,224
102.23	666	1,053	102.75	666	1,227
102.24	666	1,056	102.76	666	1,230
102.25	666	1,060	102.77	666	1,233
102.26	666	1,064	102.78	666	1,235
102.27	666	1,068	102.79	666	1,238
102.28	666	1,072	102.80	666	1,241
102.29	666	1,076	102.81	666	1,243
102.30	666	1,080	102.82	666	1,246
102.31	666	1,084	102.83	666	1,249
102.32	666	1,087	102.84	666	1,251
102.33	666	1,091	102.85	666	1,254
102.34	666	1,095	102.86	666	1,257
102.35	666	1,099	102.87	666	1,259
102.36	666	1,102	102.88	666	1,262
102.37	666	1,106	102.89	666	1,265
102.38	666	1,110	102.90	666	1,267
102.39	666	1,114	102.91	666	1,270

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Stage-Area-Storage for Pond SWA: Stormtech SC-740 (SWM-A) (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
102.92	666	1,273
102.93	666	1,275
102.94	666	1,278
102.95	666	1,281
102.96	666	1,283
102.97	666	1,286
102.98	666	1,289
102.99	666	1,291
103.00	666	1,294
103.01	666	1,297
103.02	666	1,299
103.03	666	1,302
103.04	666	1,305
103.05	666	1,307
103.06	666	1,310
103.07	666	1,313
103.08	666	1,315
103.09	666	1,318
103.10	666	1,321
103.11	666	1,323
103.12	666	1,326
103.13	666	1,329
103.14	666	1,331
103.15	666	1,334
103.16	666	1,337
103.17	666	1,339
103.18	666	1,342
103.19	666	1,345
103.20	666	1,347
103.21	666	1,350
103.22	666	1,353
103.23	666	1,355
103.24	666	1,358
103.25	666	1,361
103.26	666	1,363
103.27	666	1,366
103.28	666	1,369
103.29	666	1,371
103.30	666	1,374

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Summary for Pond SWB: Stormtech SC-740 (SWM-B)

Inflow Area = 22,535 sf, 89.57% Impervious, Inflow Depth = 6.76" for 100-Year event
 Inflow = 3.90 cfs @ 12.07 hrs, Volume= 12,688 cf
 Outflow = 0.88 cfs @ 12.46 hrs, Volume= 12,688 cf, Atten= 77%, Lag= 23.3 min
 Discarded = 0.75 cfs @ 11.68 hrs, Volume= 12,640 cf
 Primary = 0.14 cfs @ 12.46 hrs, Volume= 48 cf
 Routed to Link 1L : DA3 Discharge

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs
 Peak Elev= 102.65' @ 12.46 hrs Surf.Area= 1,610 sf Storage= 2,990 cf

Plug-Flow detention time= 20.4 min calculated for 12,685 cf (100% of inflow)
 Center-of-Mass det. time= 20.4 min (789.6 - 769.1)

Volume	Invert	Avail.Storage	Storage Description
#1A	99.80'	1,482 cf	34.75'W x 46.34'L x 3.50'H Field A 5,636 cf Overall - 1,929 cf Embedded = 3,706 cf x 40.0% Voids
#2A	100.30'	1,929 cf	ADS_StormTech SC-740 +Cap x 42 Inside #1 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap 42 Chambers in 7 Rows
		3,412 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Primary	101.30'	12.0" Round Outlet Pipe L= 63.0' CPP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 101.30' / 100.90' S= 0.0063 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf
#2	Device 1	102.60'	4.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#3	Discarded	99.80'	20.000 in/hr Exfiltration over Surface area

Discarded OutFlow Max=0.75 cfs @ 11.68 hrs HW=99.84' (Free Discharge)
 ↳3=Exfiltration (Exfiltration Controls 0.75 cfs)

Primary OutFlow Max=0.13 cfs @ 12.46 hrs HW=102.65' (Free Discharge)
 ↳1=Outlet Pipe (Passes 0.13 cfs of 3.06 cfs potential flow)
 ↳2=Broad-Crested Rectangular Weir (Weir Controls 0.13 cfs @ 0.64 fps)

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Type III 24-hr 100-Year Rainfall=7.71"

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Pond SWB: Stormtech SC-740 (SWM-B) - Chamber Wizard Field A

Chamber Model = ADS_StormTech SC-740 +Cap (ADS StormTech® SC-740 with cap length)

Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf

Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap

51.0" Wide + 6.0" Spacing = 57.0" C-C Row Spacing

6 Chambers/Row x 7.12' Long +0.81' Cap Length x 2 = 44.34' Row Length +12.0" End Stone x 2 = 46.34' Base Length

7 Rows x 51.0" Wide + 6.0" Spacing x 6 + 12.0" Side Stone x 2 = 34.75' Base Width

6.0" Stone Base + 30.0" Chamber Height + 6.0" Stone Cover = 3.50' Field Height

42 Chambers x 45.9 cf = 1,929.5 cf Chamber Storage

5,635.7 cf Field - 1,929.5 cf Chambers = 3,706.2 cf Stone x 40.0% Voids = 1,482.5 cf Stone Storage

Chamber Storage + Stone Storage = 3,412.0 cf = 0.078 af

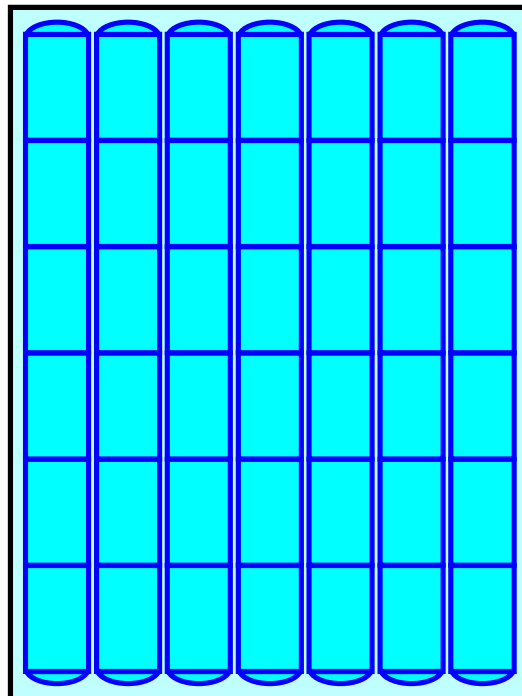
Overall Storage Efficiency = 60.5%

Overall System Size = 46.34' x 34.75' x 3.50'

42 Chambers

208.7 cy Field

137.3 cy Stone



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Stage-Discharge for Pond SWB: Stormtech SC-740 (SWM-B)

Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)	Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)
99.80	0.00	0.00	0.00	100.32	0.75	0.75	0.00
99.81	0.75	0.75	0.00	100.33	0.75	0.75	0.00
99.82	0.75	0.75	0.00	100.34	0.75	0.75	0.00
99.83	0.75	0.75	0.00	100.35	0.75	0.75	0.00
99.84	0.75	0.75	0.00	100.36	0.75	0.75	0.00
99.85	0.75	0.75	0.00	100.37	0.75	0.75	0.00
99.86	0.75	0.75	0.00	100.38	0.75	0.75	0.00
99.87	0.75	0.75	0.00	100.39	0.75	0.75	0.00
99.88	0.75	0.75	0.00	100.40	0.75	0.75	0.00
99.89	0.75	0.75	0.00	100.41	0.75	0.75	0.00
99.90	0.75	0.75	0.00	100.42	0.75	0.75	0.00
99.91	0.75	0.75	0.00	100.43	0.75	0.75	0.00
99.92	0.75	0.75	0.00	100.44	0.75	0.75	0.00
99.93	0.75	0.75	0.00	100.45	0.75	0.75	0.00
99.94	0.75	0.75	0.00	100.46	0.75	0.75	0.00
99.95	0.75	0.75	0.00	100.47	0.75	0.75	0.00
99.96	0.75	0.75	0.00	100.48	0.75	0.75	0.00
99.97	0.75	0.75	0.00	100.49	0.75	0.75	0.00
99.98	0.75	0.75	0.00	100.50	0.75	0.75	0.00
99.99	0.75	0.75	0.00	100.51	0.75	0.75	0.00
100.00	0.75	0.75	0.00	100.52	0.75	0.75	0.00
100.01	0.75	0.75	0.00	100.53	0.75	0.75	0.00
100.02	0.75	0.75	0.00	100.54	0.75	0.75	0.00
100.03	0.75	0.75	0.00	100.55	0.75	0.75	0.00
100.04	0.75	0.75	0.00	100.56	0.75	0.75	0.00
100.05	0.75	0.75	0.00	100.57	0.75	0.75	0.00
100.06	0.75	0.75	0.00	100.58	0.75	0.75	0.00
100.07	0.75	0.75	0.00	100.59	0.75	0.75	0.00
100.08	0.75	0.75	0.00	100.60	0.75	0.75	0.00
100.09	0.75	0.75	0.00	100.61	0.75	0.75	0.00
100.10	0.75	0.75	0.00	100.62	0.75	0.75	0.00
100.11	0.75	0.75	0.00	100.63	0.75	0.75	0.00
100.12	0.75	0.75	0.00	100.64	0.75	0.75	0.00
100.13	0.75	0.75	0.00	100.65	0.75	0.75	0.00
100.14	0.75	0.75	0.00	100.66	0.75	0.75	0.00
100.15	0.75	0.75	0.00	100.67	0.75	0.75	0.00
100.16	0.75	0.75	0.00	100.68	0.75	0.75	0.00
100.17	0.75	0.75	0.00	100.69	0.75	0.75	0.00
100.18	0.75	0.75	0.00	100.70	0.75	0.75	0.00
100.19	0.75	0.75	0.00	100.71	0.75	0.75	0.00
100.20	0.75	0.75	0.00	100.72	0.75	0.75	0.00
100.21	0.75	0.75	0.00	100.73	0.75	0.75	0.00
100.22	0.75	0.75	0.00	100.74	0.75	0.75	0.00
100.23	0.75	0.75	0.00	100.75	0.75	0.75	0.00
100.24	0.75	0.75	0.00	100.76	0.75	0.75	0.00
100.25	0.75	0.75	0.00	100.77	0.75	0.75	0.00
100.26	0.75	0.75	0.00	100.78	0.75	0.75	0.00
100.27	0.75	0.75	0.00	100.79	0.75	0.75	0.00
100.28	0.75	0.75	0.00	100.80	0.75	0.75	0.00
100.29	0.75	0.75	0.00	100.81	0.75	0.75	0.00
100.30	0.75	0.75	0.00	100.82	0.75	0.75	0.00
100.31	0.75	0.75	0.00	100.83	0.75	0.75	0.00

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Stage-Discharge for Pond SWB: Stormtech SC-740 (SWM-B) (continued)

Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)	Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)
100.84	0.75	0.75	0.00	101.36	0.75	0.75	0.00
100.85	0.75	0.75	0.00	101.37	0.75	0.75	0.00
100.86	0.75	0.75	0.00	101.38	0.75	0.75	0.00
100.87	0.75	0.75	0.00	101.39	0.75	0.75	0.00
100.88	0.75	0.75	0.00	101.40	0.75	0.75	0.00
100.89	0.75	0.75	0.00	101.41	0.75	0.75	0.00
100.90	0.75	0.75	0.00	101.42	0.75	0.75	0.00
100.91	0.75	0.75	0.00	101.43	0.75	0.75	0.00
100.92	0.75	0.75	0.00	101.44	0.75	0.75	0.00
100.93	0.75	0.75	0.00	101.45	0.75	0.75	0.00
100.94	0.75	0.75	0.00	101.46	0.75	0.75	0.00
100.95	0.75	0.75	0.00	101.47	0.75	0.75	0.00
100.96	0.75	0.75	0.00	101.48	0.75	0.75	0.00
100.97	0.75	0.75	0.00	101.49	0.75	0.75	0.00
100.98	0.75	0.75	0.00	101.50	0.75	0.75	0.00
100.99	0.75	0.75	0.00	101.51	0.75	0.75	0.00
101.00	0.75	0.75	0.00	101.52	0.75	0.75	0.00
101.01	0.75	0.75	0.00	101.53	0.75	0.75	0.00
101.02	0.75	0.75	0.00	101.54	0.75	0.75	0.00
101.03	0.75	0.75	0.00	101.55	0.75	0.75	0.00
101.04	0.75	0.75	0.00	101.56	0.75	0.75	0.00
101.05	0.75	0.75	0.00	101.57	0.75	0.75	0.00
101.06	0.75	0.75	0.00	101.58	0.75	0.75	0.00
101.07	0.75	0.75	0.00	101.59	0.75	0.75	0.00
101.08	0.75	0.75	0.00	101.60	0.75	0.75	0.00
101.09	0.75	0.75	0.00	101.61	0.75	0.75	0.00
101.10	0.75	0.75	0.00	101.62	0.75	0.75	0.00
101.11	0.75	0.75	0.00	101.63	0.75	0.75	0.00
101.12	0.75	0.75	0.00	101.64	0.75	0.75	0.00
101.13	0.75	0.75	0.00	101.65	0.75	0.75	0.00
101.14	0.75	0.75	0.00	101.66	0.75	0.75	0.00
101.15	0.75	0.75	0.00	101.67	0.75	0.75	0.00
101.16	0.75	0.75	0.00	101.68	0.75	0.75	0.00
101.17	0.75	0.75	0.00	101.69	0.75	0.75	0.00
101.18	0.75	0.75	0.00	101.70	0.75	0.75	0.00
101.19	0.75	0.75	0.00	101.71	0.75	0.75	0.00
101.20	0.75	0.75	0.00	101.72	0.75	0.75	0.00
101.21	0.75	0.75	0.00	101.73	0.75	0.75	0.00
101.22	0.75	0.75	0.00	101.74	0.75	0.75	0.00
101.23	0.75	0.75	0.00	101.75	0.75	0.75	0.00
101.24	0.75	0.75	0.00	101.76	0.75	0.75	0.00
101.25	0.75	0.75	0.00	101.77	0.75	0.75	0.00
101.26	0.75	0.75	0.00	101.78	0.75	0.75	0.00
101.27	0.75	0.75	0.00	101.79	0.75	0.75	0.00
101.28	0.75	0.75	0.00	101.80	0.75	0.75	0.00
101.29	0.75	0.75	0.00	101.81	0.75	0.75	0.00
101.30	0.75	0.75	0.00	101.82	0.75	0.75	0.00
101.31	0.75	0.75	0.00	101.83	0.75	0.75	0.00
101.32	0.75	0.75	0.00	101.84	0.75	0.75	0.00
101.33	0.75	0.75	0.00	101.85	0.75	0.75	0.00
101.34	0.75	0.75	0.00	101.86	0.75	0.75	0.00
101.35	0.75	0.75	0.00	101.87	0.75	0.75	0.00

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Stage-Discharge for Pond SWB: Stormtech SC-740 (SWM-B) (continued)

Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)	Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)
101.88	0.75	0.75	0.00	102.40	0.75	0.75	0.00
101.89	0.75	0.75	0.00	102.41	0.75	0.75	0.00
101.90	0.75	0.75	0.00	102.42	0.75	0.75	0.00
101.91	0.75	0.75	0.00	102.43	0.75	0.75	0.00
101.92	0.75	0.75	0.00	102.44	0.75	0.75	0.00
101.93	0.75	0.75	0.00	102.45	0.75	0.75	0.00
101.94	0.75	0.75	0.00	102.46	0.75	0.75	0.00
101.95	0.75	0.75	0.00	102.47	0.75	0.75	0.00
101.96	0.75	0.75	0.00	102.48	0.75	0.75	0.00
101.97	0.75	0.75	0.00	102.49	0.75	0.75	0.00
101.98	0.75	0.75	0.00	102.50	0.75	0.75	0.00
101.99	0.75	0.75	0.00	102.51	0.75	0.75	0.00
102.00	0.75	0.75	0.00	102.52	0.75	0.75	0.00
102.01	0.75	0.75	0.00	102.53	0.75	0.75	0.00
102.02	0.75	0.75	0.00	102.54	0.75	0.75	0.00
102.03	0.75	0.75	0.00	102.55	0.75	0.75	0.00
102.04	0.75	0.75	0.00	102.56	0.75	0.75	0.00
102.05	0.75	0.75	0.00	102.57	0.75	0.75	0.00
102.06	0.75	0.75	0.00	102.58	0.75	0.75	0.00
102.07	0.75	0.75	0.00	102.59	0.75	0.75	0.00
102.08	0.75	0.75	0.00	102.60	0.75	0.75	0.00
102.09	0.75	0.75	0.00	102.61	0.76	0.75	0.01
102.10	0.75	0.75	0.00	102.62	0.78	0.75	0.03
102.11	0.75	0.75	0.00	102.63	0.80	0.75	0.06
102.12	0.75	0.75	0.00	102.64	0.84	0.75	0.09
102.13	0.75	0.75	0.00	102.65	0.87	0.75	0.13
102.14	0.75	0.75	0.00	102.66	0.91	0.75	0.16
102.15	0.75	0.75	0.00	102.67	0.95	0.75	0.21
102.16	0.75	0.75	0.00	102.68	1.00	0.75	0.25
102.17	0.75	0.75	0.00	102.69	1.05	0.75	0.30
102.18	0.75	0.75	0.00	102.70	1.10	0.75	0.35
102.19	0.75	0.75	0.00	102.71	1.15	0.75	0.41
102.20	0.75	0.75	0.00	102.72	1.21	0.75	0.47
102.21	0.75	0.75	0.00	102.73	1.27	0.75	0.52
102.22	0.75	0.75	0.00	102.74	1.33	0.75	0.59
102.23	0.75	0.75	0.00	102.75	1.40	0.75	0.65
102.24	0.75	0.75	0.00	102.76	1.46	0.75	0.72
102.25	0.75	0.75	0.00	102.77	1.53	0.75	0.79
102.26	0.75	0.75	0.00	102.78	1.60	0.75	0.86
102.27	0.75	0.75	0.00	102.79	1.67	0.75	0.93
102.28	0.75	0.75	0.00	102.80	1.75	0.75	1.00
102.29	0.75	0.75	0.00	102.81	1.83	0.75	1.08
102.30	0.75	0.75	0.00	102.82	1.91	0.75	1.16
102.31	0.75	0.75	0.00	102.83	1.99	0.75	1.24
102.32	0.75	0.75	0.00	102.84	2.07	0.75	1.33
102.33	0.75	0.75	0.00	102.85	2.16	0.75	1.41
102.34	0.75	0.75	0.00	102.86	2.25	0.75	1.50
102.35	0.75	0.75	0.00	102.87	2.34	0.75	1.59
102.36	0.75	0.75	0.00	102.88	2.43	0.75	1.69
102.37	0.75	0.75	0.00	102.89	2.53	0.75	1.78
102.38	0.75	0.75	0.00	102.90	2.63	0.75	1.88
102.39	0.75	0.75	0.00	102.91	2.72	0.75	1.98

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Stage-Discharge for Pond SWB: Stormtech SC-740 (SWM-B) (continued)

Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)
102.92	2.83	0.75	2.08
102.93	2.93	0.75	2.18
102.94	3.03	0.75	2.29
102.95	3.14	0.75	2.39
102.96	3.25	0.75	2.50
102.97	3.36	0.75	2.61
102.98	3.47	0.75	2.72
102.99	3.58	0.75	2.84
103.00	3.70	0.75	2.95
103.01	3.82	0.75	3.07
103.02	3.94	0.75	3.20
103.03	4.07	0.75	3.32
103.04	4.19	0.75	3.45
103.05	4.32	0.75	3.57
103.06	4.45	0.75	3.70
103.07	4.57	0.75	3.82
103.08	4.58	0.75	3.84
103.09	4.60	0.75	3.85
103.10	4.61	0.75	3.87
103.11	4.63	0.75	3.88
103.12	4.65	0.75	3.90
103.13	4.66	0.75	3.92
103.14	4.68	0.75	3.93
103.15	4.69	0.75	3.95
103.16	4.71	0.75	3.96
103.17	4.73	0.75	3.98
103.18	4.74	0.75	4.00
103.19	4.76	0.75	4.01
103.20	4.77	0.75	4.03
103.21	4.79	0.75	4.04
103.22	4.80	0.75	4.06
103.23	4.82	0.75	4.07
103.24	4.83	0.75	4.09
103.25	4.85	0.75	4.10
103.26	4.86	0.75	4.12
103.27	4.88	0.75	4.13
103.28	4.89	0.75	4.15
103.29	4.91	0.75	4.16
103.30	4.92	0.75	4.18

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Type III 24-hr 100-Year Rainfall=7.71"

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Stage-Area-Storage for Pond SWB: Stormtech SC-740 (SWM-B)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
99.80	1,610	0	100.32	1,610	348
99.81	1,610	6	100.33	1,610	361
99.82	1,610	13	100.34	1,610	374
99.83	1,610	19	100.35	1,610	388
99.84	1,610	26	100.36	1,610	401
99.85	1,610	32	100.37	1,610	414
99.86	1,610	39	100.38	1,610	427
99.87	1,610	45	100.39	1,610	440
99.88	1,610	52	100.40	1,610	453
99.89	1,610	58	100.41	1,610	466
99.90	1,610	64	100.42	1,610	479
99.91	1,610	71	100.43	1,610	492
99.92	1,610	77	100.44	1,610	505
99.93	1,610	84	100.45	1,610	519
99.94	1,610	90	100.46	1,610	532
99.95	1,610	97	100.47	1,610	545
99.96	1,610	103	100.48	1,610	558
99.97	1,610	109	100.49	1,610	571
99.98	1,610	116	100.50	1,610	584
99.99	1,610	122	100.51	1,610	597
100.00	1,610	129	100.52	1,610	610
100.01	1,610	135	100.53	1,610	623
100.02	1,610	142	100.54	1,610	636
100.03	1,610	148	100.55	1,610	649
100.04	1,610	155	100.56	1,610	662
100.05	1,610	161	100.57	1,610	675
100.06	1,610	167	100.58	1,610	688
100.07	1,610	174	100.59	1,610	701
100.08	1,610	180	100.60	1,610	714
100.09	1,610	187	100.61	1,610	727
100.10	1,610	193	100.62	1,610	740
100.11	1,610	200	100.63	1,610	753
100.12	1,610	206	100.64	1,610	765
100.13	1,610	213	100.65	1,610	778
100.14	1,610	219	100.66	1,610	791
100.15	1,610	225	100.67	1,610	804
100.16	1,610	232	100.68	1,610	817
100.17	1,610	238	100.69	1,610	830
100.18	1,610	245	100.70	1,610	843
100.19	1,610	251	100.71	1,610	856
100.20	1,610	258	100.72	1,610	869
100.21	1,610	264	100.73	1,610	881
100.22	1,610	271	100.74	1,610	894
100.23	1,610	277	100.75	1,610	907
100.24	1,610	283	100.76	1,610	920
100.25	1,610	290	100.77	1,610	933
100.26	1,610	296	100.78	1,610	945
100.27	1,610	303	100.79	1,610	958
100.28	1,610	309	100.80	1,610	971
100.29	1,610	316	100.81	1,610	984
100.30	1,610	322	100.82	1,610	996
100.31	1,610	335	100.83	1,610	1,009

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Stage-Area-Storage for Pond SWB: Stormtech SC-740 (SWM-B) (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
100.84	1,610	1,022	101.36	1,610	1,666
100.85	1,610	1,035	101.37	1,610	1,678
100.86	1,610	1,047	101.38	1,610	1,690
100.87	1,610	1,060	101.39	1,610	1,702
100.88	1,610	1,073	101.40	1,610	1,714
100.89	1,610	1,085	101.41	1,610	1,726
100.90	1,610	1,098	101.42	1,610	1,738
100.91	1,610	1,111	101.43	1,610	1,750
100.92	1,610	1,123	101.44	1,610	1,761
100.93	1,610	1,136	101.45	1,610	1,773
100.94	1,610	1,148	101.46	1,610	1,785
100.95	1,610	1,161	101.47	1,610	1,797
100.96	1,610	1,174	101.48	1,610	1,809
100.97	1,610	1,186	101.49	1,610	1,821
100.98	1,610	1,199	101.50	1,610	1,832
100.99	1,610	1,211	101.51	1,610	1,844
101.00	1,610	1,224	101.52	1,610	1,856
101.01	1,610	1,236	101.53	1,610	1,867
101.02	1,610	1,249	101.54	1,610	1,879
101.03	1,610	1,261	101.55	1,610	1,891
101.04	1,610	1,274	101.56	1,610	1,902
101.05	1,610	1,286	101.57	1,610	1,914
101.06	1,610	1,299	101.58	1,610	1,926
101.07	1,610	1,311	101.59	1,610	1,937
101.08	1,610	1,324	101.60	1,610	1,949
101.09	1,610	1,336	101.61	1,610	1,960
101.10	1,610	1,348	101.62	1,610	1,972
101.11	1,610	1,361	101.63	1,610	1,983
101.12	1,610	1,373	101.64	1,610	1,995
101.13	1,610	1,386	101.65	1,610	2,006
101.14	1,610	1,398	101.66	1,610	2,018
101.15	1,610	1,410	101.67	1,610	2,029
101.16	1,610	1,423	101.68	1,610	2,041
101.17	1,610	1,435	101.69	1,610	2,052
101.18	1,610	1,447	101.70	1,610	2,064
101.19	1,610	1,459	101.71	1,610	2,075
101.20	1,610	1,472	101.72	1,610	2,086
101.21	1,610	1,484	101.73	1,610	2,097
101.22	1,610	1,496	101.74	1,610	2,109
101.23	1,610	1,508	101.75	1,610	2,120
101.24	1,610	1,521	101.76	1,610	2,131
101.25	1,610	1,533	101.77	1,610	2,142
101.26	1,610	1,545	101.78	1,610	2,154
101.27	1,610	1,557	101.79	1,610	2,165
101.28	1,610	1,569	101.80	1,610	2,176
101.29	1,610	1,581	101.81	1,610	2,187
101.30	1,610	1,594	101.82	1,610	2,198
101.31	1,610	1,606	101.83	1,610	2,209
101.32	1,610	1,618	101.84	1,610	2,220
101.33	1,610	1,630	101.85	1,610	2,231
101.34	1,610	1,642	101.86	1,610	2,242
101.35	1,610	1,654	101.87	1,610	2,253

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Type III 24-hr 100-Year Rainfall=7.71"

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Stage-Area-Storage for Pond SWB: Stormtech SC-740 (SWM-B) (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
101.88	1,610	2,264	102.40	1,610	2,788
101.89	1,610	2,275	102.41	1,610	2,797
101.90	1,610	2,286	102.42	1,610	2,806
101.91	1,610	2,297	102.43	1,610	2,815
101.92	1,610	2,308	102.44	1,610	2,824
101.93	1,610	2,319	102.45	1,610	2,832
101.94	1,610	2,329	102.46	1,610	2,841
101.95	1,610	2,340	102.47	1,610	2,850
101.96	1,610	2,351	102.48	1,610	2,858
101.97	1,610	2,362	102.49	1,610	2,866
101.98	1,610	2,372	102.50	1,610	2,875
101.99	1,610	2,383	102.51	1,610	2,883
102.00	1,610	2,393	102.52	1,610	2,891
102.01	1,610	2,404	102.53	1,610	2,899
102.02	1,610	2,415	102.54	1,610	2,907
102.03	1,610	2,425	102.55	1,610	2,915
102.04	1,610	2,435	102.56	1,610	2,923
102.05	1,610	2,446	102.57	1,610	2,930
102.06	1,610	2,456	102.58	1,610	2,938
102.07	1,610	2,467	102.59	1,610	2,945
102.08	1,610	2,477	102.60	1,610	2,953
102.09	1,610	2,487	102.61	1,610	2,960
102.10	1,610	2,498	102.62	1,610	2,967
102.11	1,610	2,508	102.63	1,610	2,975
102.12	1,610	2,518	102.64	1,610	2,982
102.13	1,610	2,528	102.65	1,610	2,989
102.14	1,610	2,538	102.66	1,610	2,996
102.15	1,610	2,548	102.67	1,610	3,003
102.16	1,610	2,558	102.68	1,610	3,010
102.17	1,610	2,568	102.69	1,610	3,017
102.18	1,610	2,578	102.70	1,610	3,023
102.19	1,610	2,588	102.71	1,610	3,030
102.20	1,610	2,598	102.72	1,610	3,037
102.21	1,610	2,608	102.73	1,610	3,044
102.22	1,610	2,618	102.74	1,610	3,051
102.23	1,610	2,628	102.75	1,610	3,057
102.24	1,610	2,638	102.76	1,610	3,064
102.25	1,610	2,647	102.77	1,610	3,070
102.26	1,610	2,657	102.78	1,610	3,077
102.27	1,610	2,667	102.79	1,610	3,083
102.28	1,610	2,676	102.80	1,610	3,090
102.29	1,610	2,686	102.81	1,610	3,096
102.30	1,610	2,695	102.82	1,610	3,103
102.31	1,610	2,705	102.83	1,610	3,109
102.32	1,610	2,714	102.84	1,610	3,116
102.33	1,610	2,724	102.85	1,610	3,122
102.34	1,610	2,733	102.86	1,610	3,129
102.35	1,610	2,742	102.87	1,610	3,135
102.36	1,610	2,752	102.88	1,610	3,141
102.37	1,610	2,761	102.89	1,610	3,148
102.38	1,610	2,770	102.90	1,610	3,154
102.39	1,610	2,779	102.91	1,610	3,161

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Stage-Area-Storage for Pond SWB: Stormtech SC-740 (SWM-B) (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
102.92	1,610	3,167
102.93	1,610	3,174
102.94	1,610	3,180
102.95	1,610	3,187
102.96	1,610	3,193
102.97	1,610	3,199
102.98	1,610	3,206
102.99	1,610	3,212
103.00	1,610	3,219
103.01	1,610	3,225
103.02	1,610	3,232
103.03	1,610	3,238
103.04	1,610	3,245
103.05	1,610	3,251
103.06	1,610	3,257
103.07	1,610	3,264
103.08	1,610	3,270
103.09	1,610	3,277
103.10	1,610	3,283
103.11	1,610	3,290
103.12	1,610	3,296
103.13	1,610	3,302
103.14	1,610	3,309
103.15	1,610	3,315
103.16	1,610	3,322
103.17	1,610	3,328
103.18	1,610	3,335
103.19	1,610	3,341
103.20	1,610	3,348
103.21	1,610	3,354
103.22	1,610	3,360
103.23	1,610	3,367
103.24	1,610	3,373
103.25	1,610	3,380
103.26	1,610	3,386
103.27	1,610	3,393
103.28	1,610	3,399
103.29	1,610	3,406
103.30	1,610	3,412

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Summary for Link 1L: DA3 Discharge

Inflow Area = 34,600 sf, 89.89% Impervious, Inflow Depth = 0.53" for 100-Year event
Inflow = 0.49 cfs @ 12.07 hrs, Volume= 1,531 cf
Primary = 0.49 cfs @ 12.07 hrs, Volume= 1,531 cf, Atten= 0%, Lag= 0.0 min
Routed to Link TSD : Total Site Discharge

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

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Summary for Link TSD: Total Site Discharge

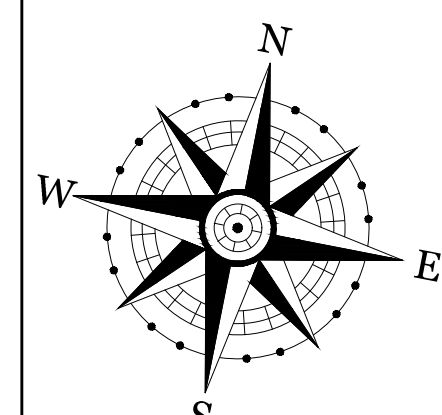
Inflow Area = 45,484 sf, 72.47% Impervious, Inflow Depth = 0.87" for 100-Year event
Inflow = 1.01 cfs @ 12.08 hrs, Volume= 3,317 cf
Primary = 1.01 cfs @ 12.08 hrs, Volume= 3,317 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.02 hrs

STAMP

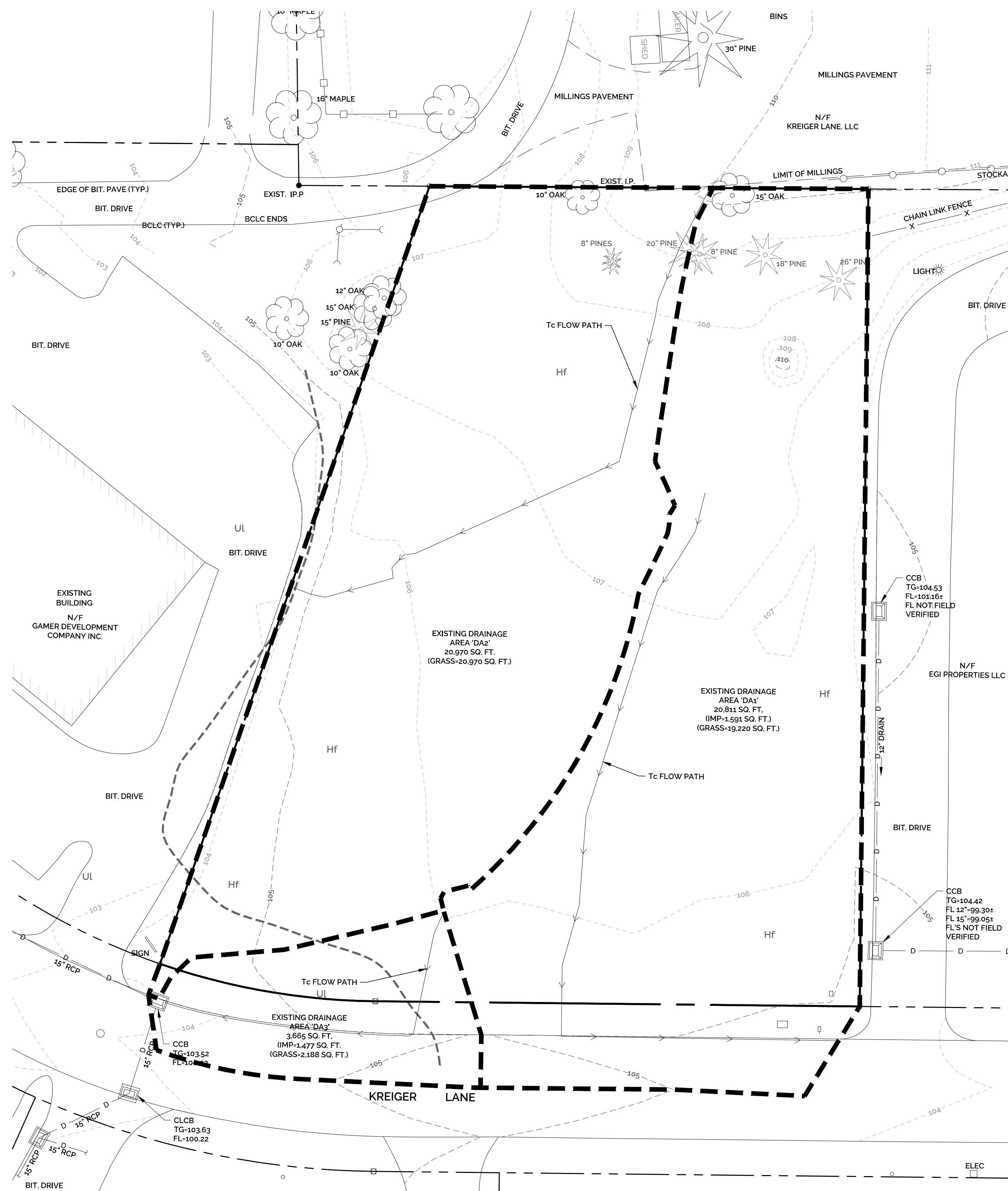
REV.	DESCRIPTION OF REVISION	DATE	APPR.

**PRE- AND POST-DEVELOPMENT
DRAINAGE AREA MAPS**
VESSEL MULTI-FAMILY HOUSING
PROPERTY ADDRESS
51 KREIGER LANE, GLASTONBURY, CT 06033
PREPARED FOR
VESSEL TECHNOLOGIES, INC.
46 WEST 55TH, NEW YORK, NY 10019

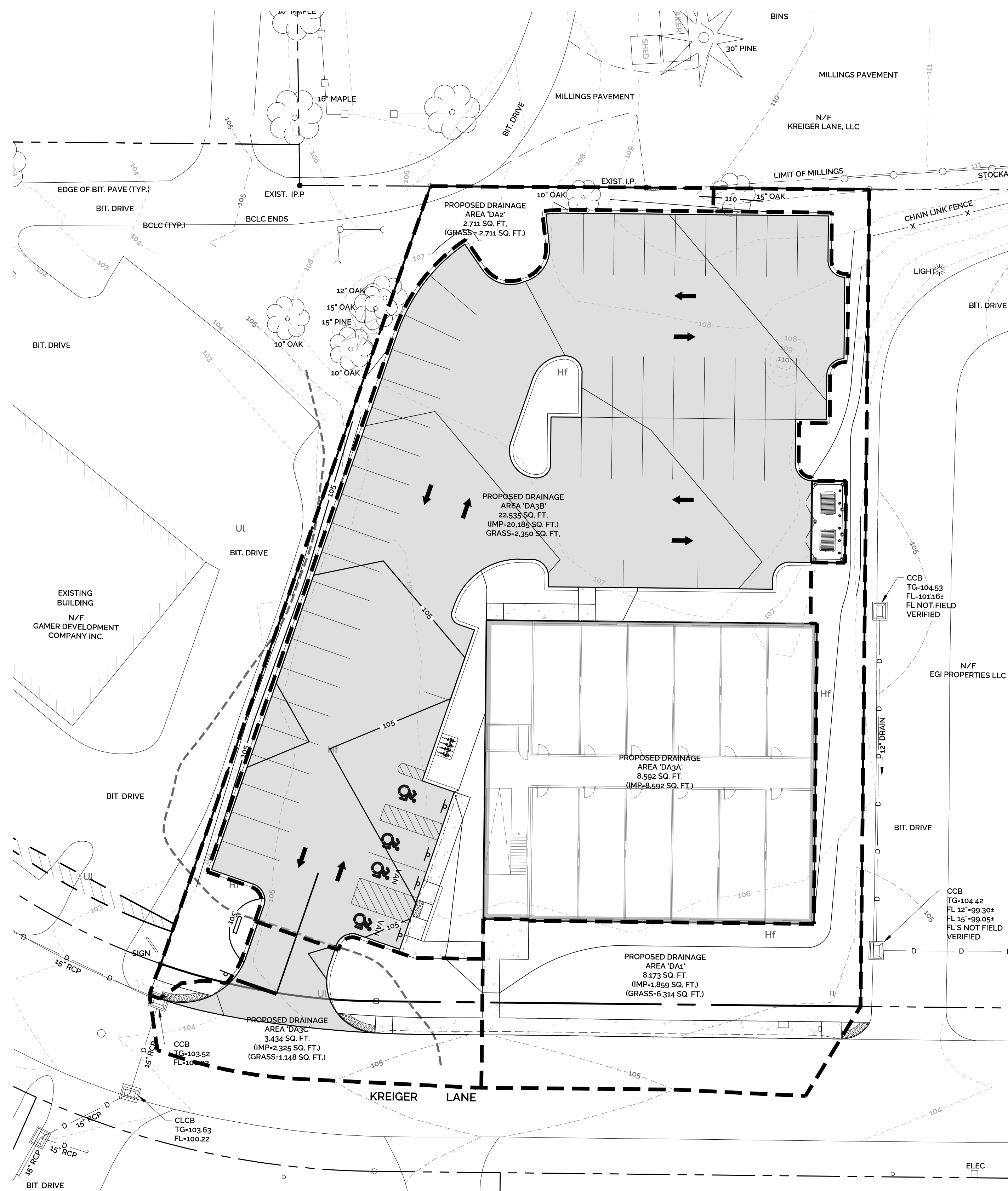


PROJECT NO.	SCALE
2022-0011	1" = 20'
DRAWN BY:	DATE
SMM	10/31/2022
CHECKED BY:	DATE
SMM	10/31/2022

DRAWING
FIGURE 2
SHEET NUMBER: 1 OF 1



PRE-DEVELOPMENT DRAINAGE AREA MAP
SCALE: 1" = 20'



POST-DEVELOPMENT DRAINAGE AREA MAP
SCALE: 1" = 20'