

Drainage Diagram for Ditch @ Sta 814+00 - 820+00 using Reach
 Prepared by {enter your company name here}, Printed 7/8/2008
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Ditch @ Sta 814+00 - 820+00 using Reach

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Area Listing (all nodes)

Area (sq-ft)	CN	Description (subcatchment-numbers)
124,277	58	Woods/grass comb., Good, HSG B (Area -2,Area -3,Area -4,Area -5,Area-1)
47,524	92	Paved roads w/open ditches, 50% imp, HSG C (Area -2,Area -3,Area -4,Area-1)
27,225	98	Paved roads w/curbs & sewers (Area -5)
199,026		TOTAL AREA

Ditch @ Sta 814+00 - 820+00 using Reach

Type II 24-hr 10-yr Rainfall=5.50"

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Summary for Subcatchment Area -2: Sta. 815+00 to Sta. 816+00

Runoff = 2.18 cfs @ 12.12 hrs, Volume= 7,100 cf, Depth= 2.08"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-32.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-yr Rainfall=5.50"

Area (ac)	CN	Description
0.217	92	Paved roads w/open ditches, 50% imp, HSG C
0.725	58	Woods/grass comb., Good, HSG B
0.942	66	Weighted Average

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.1	193	0.1000	0.17		Sheet Flow, OVERLAND FLOW Woods: Light underbrush n= 0.400 P2= 3.20"

Summary for Subcatchment Area -3: Sta. 816+00 to Sta. 817+00

Runoff = 2.62 cfs @ 11.96 hrs, Volume= 5,109 cf, Depth= 2.41"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-32.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-yr Rainfall=5.50"

Area (ac)	CN	Description
0.198	92	Paved roads w/open ditches, 50% imp, HSG C
0.385	58	Woods/grass comb., Good, HSG B
0.583	70	Weighted Average

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

Summary for Subcatchment Area -4: Sta. 817+00 to Sta. 818+00

Runoff = 1.58 cfs @ 12.11 hrs, Volume= 5,039 cf, Depth= 2.59"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-32.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-yr Rainfall=5.50"

Area (ac)	CN	Description
0.218	92	Paved roads w/open ditches, 50% imp, HSG C
0.318	58	Woods/grass comb., Good, HSG B
0.536	72	Weighted Average

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.1	212	0.1200	0.18		Sheet Flow, OVERLAND FLOW Woods: Light underbrush n= 0.400 P2= 3.20"

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Type II 24-hr 10-yr Rainfall=5.50"

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Summary for Subcatchment Area -5: Sta. 818+00 to Sta. 822+00

Runoff = 5.04 cfs @ 12.11 hrs, Volume= 16,055 cf, Depth= 2.68"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-32.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-yr Rainfall=5.50"

Area (ac)	CN	Description
0.625	98	Paved roads w/curbs & sewers
1.026	58	Woods/grass comb., Good, HSG B
1.651	73	Weighted Average

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.1	212	0.1200	0.18		Sheet Flow, OVERLAND FLOW Woods: Light underbrush n= 0.400 P2= 3.20"

Summary for Subcatchment Area-1: Sta. 814+00 to Sta. 815+00

Runoff = 2.74 cfs @ 12.13 hrs, Volume= 9,186 cf, Depth= 2.95"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-32.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-yr Rainfall=5.50"

Area (ac)	CN	Description
0.458	92	Paved roads w/open ditches, 50% imp, HSG C
0.399	58	Woods/grass comb., Good, HSG B
0.857	76	Weighted Average

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.9	188	0.0850	0.16		Sheet Flow, OVERLAND FLOW Woods: Light underbrush n= 0.400 P2= 3.20"
1.1	302	0.0215	4.43	13.29	Channel Flow, DITCH Area= 3.0 sf Perim= 6.3' r= 0.48' n= 0.030
21.0	490	Total			

Summary for Reach 1R: Reach 1

Inflow Area = 37,331 sf, Inflow Depth = 2.95" for 10-yr event
 Inflow = 2.74 cfs @ 12.13 hrs, Volume= 9,186 cf
 Outflow = 2.70 cfs @ 12.16 hrs, Volume= 9,186 cf, Atten= 1%, Lag= 1.5 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-32.00 hrs, dt= 0.01 hrs / 3
 Max. Velocity= 2.84 fps, Min. Travel Time= 1.9 min
 Avg. Velocity = 1.10 fps, Avg. Travel Time= 4.9 min

Peak Storage= 310 cf @ 12.16 hrs, Average Depth at Peak Storage= 0.56'
 Bank-Full Depth= 1.00', Capacity at Bank-Full= 12.48 cfs

Ditch @ Sta 814+00 - 820+00 using Reach

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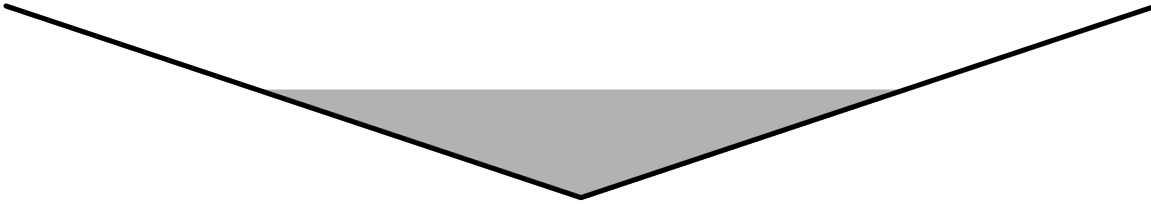
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Type II 24-hr 10-yr Rainfall=5.50"

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0.00' x 1.00' deep channel, n= 0.030
Side Slope Z-value= 3.0 ' ' Top Width= 6.00'
Length= 325.0' Slope= 0.0191 ' '
Inlet Invert= 356.00', Outlet Invert= 349.80'



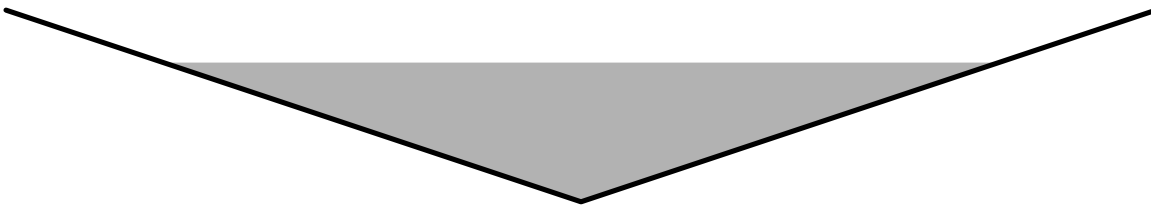
Summary for Reach 2R: (new Reach)

Inflow Area = 78,364 sf, Inflow Depth = 2.45" for 10-yr event
Inflow = 4.75 cfs @ 12.15 hrs, Volume= 15,980 cf
Outflow = 4.74 cfs @ 12.16 hrs, Volume= 15,980 cf, Atten= 0%, Lag= 0.6 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-32.00 hrs, dt= 0.01 hrs / 3
Max. Velocity= 3.00 fps, Min. Travel Time= 0.8 min
Avg. Velocity = 1.24 fps, Avg. Travel Time= 2.0 min

Peak Storage= 238 cf @ 12.16 hrs, Average Depth at Peak Storage= 0.73'
Bank-Full Depth= 1.00', Capacity at Bank-Full= 11.15 cfs

0.00' x 1.00' deep channel, n= 0.030
Side Slope Z-value= 3.0 ' ' Top Width= 6.00'
Length= 151.0' Slope= 0.0152 ' '
Inlet Invert= 349.80', Outlet Invert= 347.50'



Summary for Reach 3R: (new Reach)

[80] Warning: Exceeded Pond CD#2 by 1.04' @ 9.73 hrs (2.10 cfs 140,025 cf)

Inflow Area = 103,760 sf, Inflow Depth = 2.98" for 10-yr event
Inflow = 4.94 cfs @ 12.19 hrs, Volume= 25,783 cf
Outflow = 4.93 cfs @ 12.20 hrs, Volume= 25,783 cf, Atten= 0%, Lag= 0.5 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-32.00 hrs, dt= 0.01 hrs / 3
Max. Velocity= 3.82 fps, Min. Travel Time= 0.6 min
Avg. Velocity = 1.74 fps, Avg. Travel Time= 1.4 min

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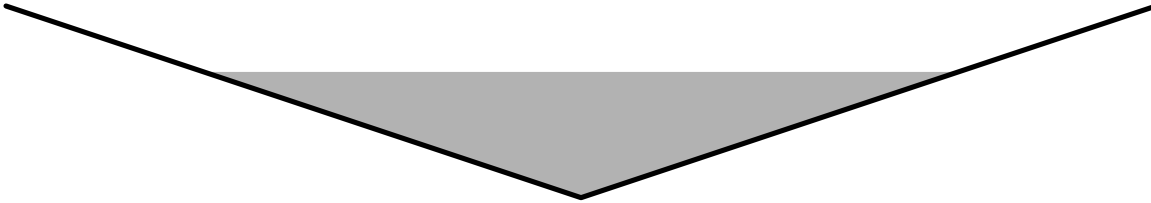
Type II 24-hr 10-yr Rainfall=5.50"

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Peak Storage= 183 cf @ 12.20 hrs, Average Depth at Peak Storage= 0.66'
Bank-Full Depth= 1.00', Capacity at Bank-Full= 15.17 cfs

0.00' x 1.00' deep channel, n= 0.030
Side Slope Z-value= 3.0 '/' Top Width= 6.00'
Length= 142.0' Slope= 0.0282 '/'
Inlet Invert= 348.50', Outlet Invert= 344.50'



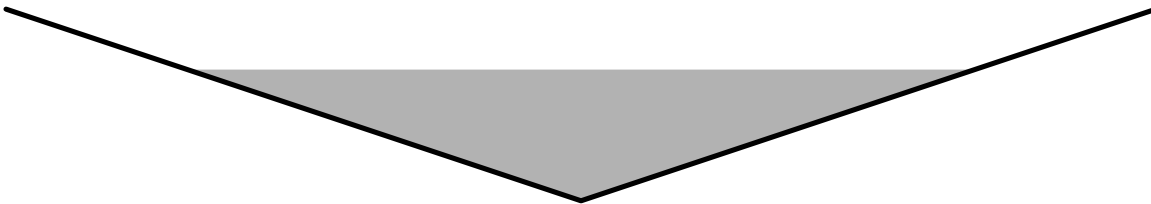
Summary for Reach 4R: (new Reach)

Inflow Area = 127,108 sf, Inflow Depth = 2.89" for 10-yr event
Inflow = 6.34 cfs @ 12.17 hrs, Volume= 30,576 cf
Outflow = 6.32 cfs @ 12.18 hrs, Volume= 30,576 cf, Atten= 0%, Lag= 0.5 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-32.00 hrs, dt= 0.01 hrs / 3
Max. Velocity= 4.51 fps, Min. Travel Time= 0.5 min
Avg. Velocity = 2.00 fps, Avg. Travel Time= 1.2 min

Peak Storage= 208 cf @ 12.18 hrs, Average Depth at Peak Storage= 0.68'
Bank-Full Depth= 1.00', Capacity at Bank-Full= 17.42 cfs

0.00' x 1.00' deep channel, n= 0.030
Side Slope Z-value= 3.0 '/' Top Width= 6.00'
Length= 148.0' Slope= 0.0372 '/'
Inlet Invert= 344.50', Outlet Invert= 339.00'



Summary for Reach 5R: (new Reach)

Inflow Area = 199,026 sf, Inflow Depth = 2.75" for 10-yr event
Inflow = 11.13 cfs @ 12.13 hrs, Volume= 45,532 cf
Outflow = 11.07 cfs @ 12.16 hrs, Volume= 45,532 cf, Atten= 1%, Lag= 1.4 min

Routing by Dyn-Stor-Ind method, Time Span= 1.00-32.00 hrs, dt= 0.01 hrs / 3
Max. Velocity= 5.12 fps, Min. Travel Time= 1.3 min
Avg. Velocity = 1.74 fps, Avg. Travel Time= 4.0 min

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Peak Storage= 894 cf @ 12.16 hrs, Average Depth at Peak Storage= 0.58'
 Bank-Full Depth= 1.00', Capacity at Bank-Full= 34.66 cfs

2.00' x 1.00' deep channel, n= 0.030
 Side Slope Z-value= 3.0 '/' Top Width= 8.00'
 Length= 414.0' Slope= 0.0386 '/'
 Inlet Invert= 339.00', Outlet Invert= 323.00'



‡

Summary for Pond CD#1: Check Dam 1

[62] Warning: Exceeded Reach 1R OUTLET depth by 0.60' @ 12.19 hrs

Inflow Area = 37,331 sf, Inflow Depth = 2.95" for 10-yr event
 Inflow = 2.70 cfs @ 12.16 hrs, Volume= 9,186 cf
 Outflow = 2.68 cfs @ 12.18 hrs, Volume= 9,186 cf, Atten= 1%, Lag= 1.2 min
 Discarded = 0.01 cfs @ 12.18 hrs, Volume= 307 cf
 Primary = 2.67 cfs @ 12.18 hrs, Volume= 8,879 cf

Routing by Dyn-Stor-Ind method, Time Span= 1.00-32.00 hrs, dt= 0.01 hrs / 3
 Peak Elev= 350.96' @ 12.18 hrs Surf.Area= 427 sf Storage= 237 cf

Plug-Flow detention time= 6.2 min calculated for 9,183 cf (100% of inflow)
 Center-of-Mass det. time= 6.3 min (847.9 - 841.6)

Volume	Invert	Avail.Storage	Storage Description
#1	349.80'	1,213 cf	Pond Volume (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
349.80	0	0	0
350.00	55	5	5
351.00	441	248	253
352.00	1,479	960	1,213

Device	Routing	Invert	Outlet Devices
#1	Primary	350.30'	2.0' long x 6.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.37 2.51 2.70 2.68 2.68 2.67 2.65 2.65 2.65 2.65 2.66 2.66 2.67 2.69 2.72 2.76 2.83
#2	Discarded	349.80'	1.000 in/hr Exfiltration over Surface area

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Discarded OutFlow Max=0.01 cfs @ 12.18 hrs HW=350.96' (Free Discharge)

↳ **2=Exfiltration** (Exfiltration Controls 0.01 cfs)

Primary OutFlow Max=2.67 cfs @ 12.18 hrs HW=350.96' TW=350.52' (Dynamic Tailwater)

↳ **1=Broad-Crested Rectangular Weir** (Weir Controls 2.67 cfs @ 2.02 fps)

Summary for Pond CD#2: Check Dam 2

[87] Warning: Oscillations may require Finer Routing or smaller dt

[62] Warning: Exceeded Reach 2R OUTLET depth by 1.14' @ 12.25 hrs

Inflow Area =	78,364 sf,	Inflow Depth =	2.45"	for	10-yr event
Inflow =	4.74 cfs @	12.16 hrs,	Volume=	15,980 cf	
Outflow =	4.60 cfs @	12.20 hrs,	Volume=	15,931 cf,	Atten= 3%, Lag= 2.2 min
Discarded =	0.03 cfs @	12.20 hrs,	Volume=	926 cf	
Primary =	4.57 cfs @	12.20 hrs,	Volume=	20,674 cf	

Routing by Dyn-Stor-Ind method, Time Span= 1.00-32.00 hrs, dt= 0.01 hrs / 3

Peak Elev= 349.35' @ 12.20 hrs Surf.Area= 1,408 sf Storage= 871 cf

Plug-Flow detention time= 19.4 min calculated for 15,931 cf (100% of inflow)

Center-of-Mass det. time= 17.5 min (868.2 - 850.7)

Volume	Invert	Avail.Storage	Storage Description
#1	347.50'	2,182 cf	Pond Volume (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
347.50	0	0	0
348.00	164	41	41
349.00	741	453	494
350.00	2,636	1,689	2,182

Device	Routing	Invert	Outlet Devices
#1	Primary	348.00'	2.0' long x 6.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.37 2.51 2.70 2.68 2.68 2.67 2.65 2.65 2.65 2.65 2.66 2.66 2.67 2.69 2.72 2.76 2.83
#2	Discarded	347.50'	1.000 in/hr Exfiltration over Surface area

Discarded OutFlow Max=0.03 cfs @ 12.20 hrs HW=349.35' (Free Discharge)

↳ **2=Exfiltration** (Exfiltration Controls 0.03 cfs)

Primary OutFlow Max=4.57 cfs @ 12.20 hrs HW=349.35' TW=349.16' (Dynamic Tailwater)

↳ **1=Broad-Crested Rectangular Weir** (Weir Controls 4.57 cfs @ 1.69 fps)

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Summary for Pond CD#3: Check Dam 3

- [93] Warning: Storage range exceeded by 0.97'
- [90] Warning: Qout>Qin may require Finer Routing or smaller dt
- [87] Warning: Oscillations may require Finer Routing or smaller dt
- [62] Warning: Exceeded Reach 3R OUTLET depth by 0.81' @ 12.19 hrs

Inflow Area = 103,760 sf, Inflow Depth = 2.98" for 10-yr event
 Inflow = 4.93 cfs @ 12.20 hrs, Volume= 25,783 cf
 Outflow = 4.94 cfs @ 12.21 hrs, Volume= 25,783 cf, Atten= 0%, Lag= 0.4 min
 Discarded = 0.00 cfs @ 10.79 hrs, Volume= 245 cf
 Primary = 4.94 cfs @ 12.21 hrs, Volume= 25,538 cf

Routing by Dyn-Stor-Ind method, Time Span= 1.00-32.00 hrs, dt= 0.01 hrs / 3
 Peak Elev= 345.97' @ 12.21 hrs Surf.Area= 154 sf Storage= 39 cf

Plug-Flow detention time= 1.6 min calculated for 25,783 cf (100% of inflow)
 Center-of-Mass det. time= 1.6 min (916.3 - 914.7)

Volume	Invert	Avail.Storage	Storage Description
#1	344.50'	39 cf	Pond Volume (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
344.50	0	0	0
345.00	154	39	39

Device	Routing	Invert	Outlet Devices
#1	Primary	345.00'	2.0' long x 6.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.37 2.51 2.70 2.68 2.68 2.67 2.65 2.65 2.65 2.65 2.66 2.66 2.67 2.69 2.72 2.76 2.83
#2	Discarded	344.50'	1.000 in/hr Exfiltration over Surface area

Discarded OutFlow Max=0.00 cfs @ 10.79 hrs HW=345.04' (Free Discharge)
 ↑**2=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=4.94 cfs @ 12.21 hrs HW=345.97' TW=345.18' (Dynamic Tailwater)
 ↑**1=Broad-Crested Rectangular Weir**(Weir Controls 4.94 cfs @ 2.55 fps)

Summary for Pond CD#4: Check Dam 4

- [93] Warning: Storage range exceeded by 0.12'
- [90] Warning: Qout>Qin may require Finer Routing or smaller dt
- [62] Warning: Exceeded Reach 4R OUTLET depth by 1.43' @ 12.17 hrs

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Type II 24-hr 10-yr Rainfall=5.50"

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Inflow Area = 127,108 sf, Inflow Depth = 2.89" for 10-yr event
 Inflow = 6.32 cfs @ 12.18 hrs, Volume= 30,576 cf
 Outflow = 6.34 cfs @ 12.17 hrs, Volume= 30,514 cf, Atten= 0%, Lag= 0.0 min
 Discarded = 0.04 cfs @ 12.09 hrs, Volume= 1,036 cf
 Primary = 6.30 cfs @ 12.17 hrs, Volume= 29,478 cf

Routing by Dyn-Stor-Ind method, Time Span= 1.00-32.00 hrs, dt= 0.01 hrs / 3
 Peak Elev= 341.12' @ 12.17 hrs Surf.Area= 1,576 sf Storage= 1,245 cf

Plug-Flow detention time= 11.3 min calculated for 30,504 cf (100% of inflow)
 Center-of-Mass det. time= 10.1 min (913.6 - 903.5)

Volume	Invert	Avail.Storage	Storage Description
#1	339.00'	1,245 cf	Pond Volume (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
339.00	0	0	0
340.00	457	229	229
341.00	1,576	1,017	1,245

Device	Routing	Invert	Outlet Devices
#1	Primary	340.00'	2.0' long x 6.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.37 2.51 2.70 2.68 2.68 2.67 2.65 2.65 2.65 2.65 2.66 2.66 2.67 2.69 2.72 2.76 2.83
#2	Discarded	339.00'	1.000 in/hr Exfiltration over Surface area

Discarded OutFlow Max=0.04 cfs @ 12.09 hrs HW=341.06' (Free Discharge)
 ↑**2=Exfiltration** (Exfiltration Controls 0.04 cfs)

Primary OutFlow Max=6.30 cfs @ 12.17 hrs HW=341.12' TW=339.58' (Dynamic Tailwater)
 ↑**1=Broad-Crested Rectangular Weir**(Weir Controls 6.30 cfs @ 2.82 fps)

Summary for Pond Culvert: Culvert

[62] Warning: Exceeded Reach 5R OUTLET depth by 0.74' @ 12.20 hrs

Inflow Area = 199,026 sf, Inflow Depth = 2.75" for 10-yr event
 Inflow = 11.07 cfs @ 12.16 hrs, Volume= 45,532 cf
 Outflow = 10.92 cfs @ 12.18 hrs, Volume= 45,532 cf, Atten= 1%, Lag= 1.7 min
 Discarded = 0.03 cfs @ 12.18 hrs, Volume= 1,031 cf
 Primary = 10.89 cfs @ 12.18 hrs, Volume= 44,501 cf

Routing by Dyn-Stor-Ind method, Time Span= 1.00-32.00 hrs, dt= 0.01 hrs / 3
 Peak Elev= 324.32' @ 12.18 hrs Surf.Area= 1,457 sf Storage= 1,192 cf

Plug-Flow detention time= 3.9 min calculated for 45,532 cf (100% of inflow)
 Center-of-Mass det. time= 3.9 min (889.5 - 885.6)

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Volume	Invert	Avail.Storage	Storage Description
#1	323.00'	5,619 cf	Pond Volume (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
323.00	618	0	0
324.00	992	805	805
325.00	2,463	1,728	2,533
326.00	3,709	3,086	5,619

Device	Routing	Invert	Outlet Devices
#1	Primary	323.00'	36.0" x 32.0' long Culvert RCP, end-section conforming to fill, Ke= 0.500 Outlet Invert= 322.50' S= 0.0156 1/'' Cc= 0.900 n= 0.013
#2	Primary	340.25'	2.0' long x 6.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.37 2.51 2.70 2.68 2.68 2.67 2.65 2.65 2.65 2.65 2.66 2.66 2.67 2.69 2.72 2.76 2.83
#3	Discarded	323.00'	1.000 in/hr Exfiltration over Surface area

Discarded OutFlow Max=0.03 cfs @ 12.18 hrs HW=324.32' (Free Discharge)

↳ **3=Exfiltration** (Exfiltration Controls 0.03 cfs)

Primary OutFlow Max=10.88 cfs @ 12.18 hrs HW=324.32' (Free Discharge)

↳ **1=Culvert** (Barrel Controls 10.88 cfs @ 5.37 fps)

↳ **2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)