

**20747-PROP-DRAINAGE**

Type III 24-hr WQF Rainfall=1.50"

Prepared by {enter your company name here}

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**Summary for Reach 1R: Treatment Swale**

Inflow Area = 8.269 ac, 6.78% Impervious, Inflow Depth > 0.20" for WQF event  
 Inflow = 0.80 cfs @ 12.43 hrs, Volume= 0.135 af  
 Outflow = 0.54 cfs @ 13.31 hrs, Volume= 0.126 af, Atten= 32%, Lag= 52.4 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.02 hrs  
 Max. Velocity= 0.20 fps, Min. Travel Time= 28.7 min  
 Avg. Velocity = 0.13 fps, Avg. Travel Time= 45.0 min

Peak Storage= 932 cf @ 12.83 hrs  
 Average Depth at Peak Storage= 0.16' , Surface Width= 16.97'  
 Bank-Full Depth= 2.00' Flow Area= 44.0 sf, Capacity= 41.03 cfs

16.00' x 2.00' deep channel, n= 0.150  
 Side Slope Z-value= 3.0 '/' Top Width= 28.00'  
 Length= 350.0' Slope= 0.0050 '/'  
 Inlet Invert= 177.50', Outlet Invert= 175.75'

