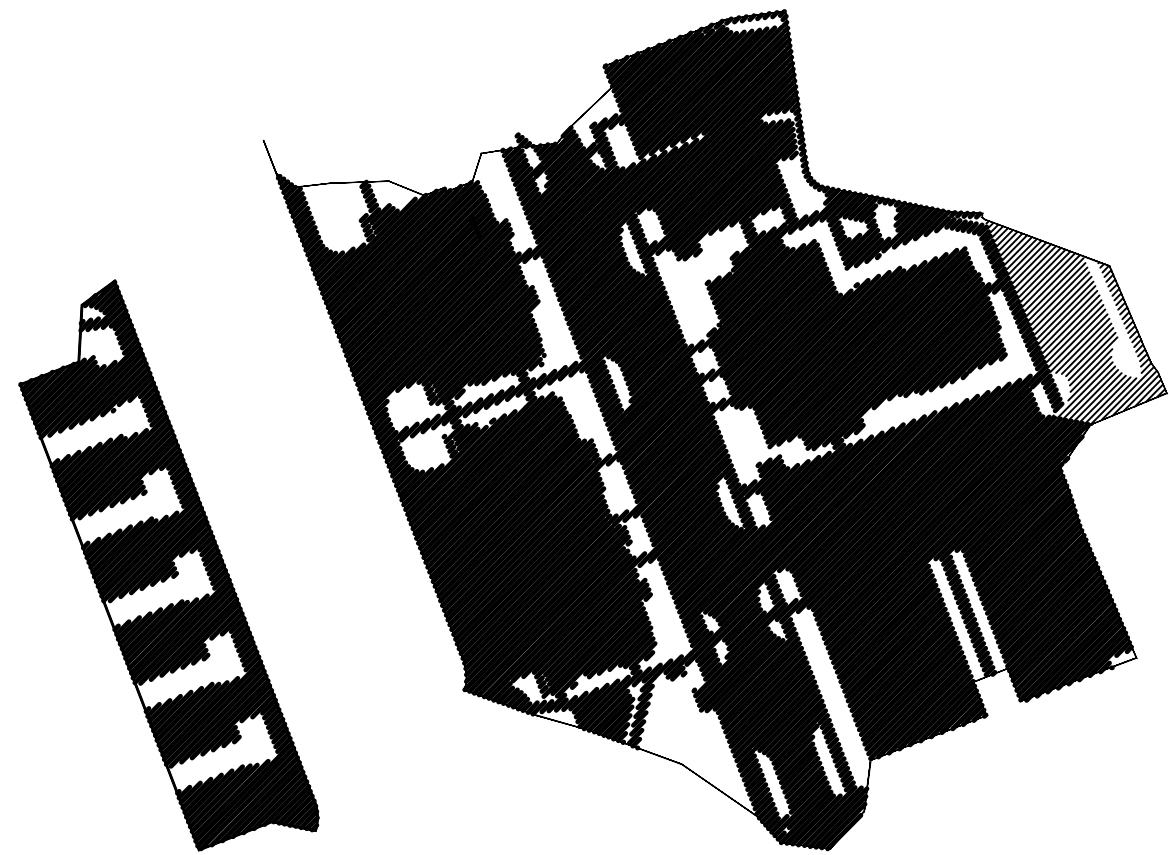


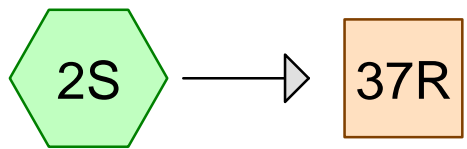
DA TO CB #1
AREA = 0.59 AC
IMPERVIOUS = 0.50 AC



DA TO CB #3
AREA = 0.43 AC
IMPERVIOUS = 0.35

DA TO CB #4
AREA = 2.82 AC
IMPERVIOUS = 2.40 AC

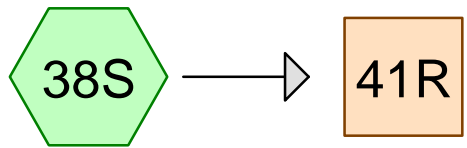
DA TO CB #2
AREA = 1.37 AC
IMPERVIOUS = 1.10 AC



DA-4



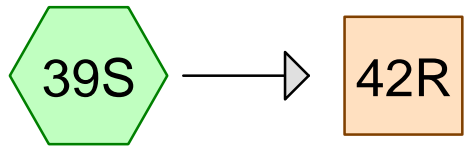
CB #4



DA-3



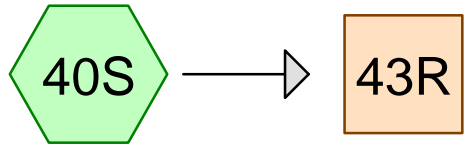
CB #3



DA-2



CB #2



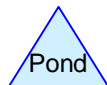
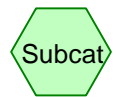
DA-1



CB #1



Gravel Wetland



Summary for Subcatchment 2S: DA-4

Runoff = 20.18 cfs @ 11.96 hrs, Volume= 1.072 af, Depth= 4.56"

Routed to Reach 37R : CB #4

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-120.00 hrs, dt= 0.01 hrs

Type II 24-hr 100 year Rainfall=5.08"

Area (ac)	CN	Description
0.420	80	>75% Grass cover, Good, HSG D
2.400	98	Paved parking, HSG D
2.820		Weighted Average
0.420	80	14.89% Pervious Area
2.400	98	85.11% Impervious Area

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

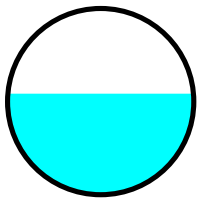
Summary for Reach 37R: CB #4

Inflow Area = 2.820 ac, 85.11% Impervious, Inflow Depth = 4.56" for 100 year event
Inflow = 20.18 cfs @ 11.96 hrs, Volume= 1.072 af
Outflow = 20.17 cfs @ 11.96 hrs, Volume= 1.072 af, Atten= 0%, Lag= 0.1 min
Routed to Reach 41R : CB #3

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.01 hrs
Max. Velocity= 7.42 fps, Min. Travel Time= 0.0 min
Avg. Velocity = 2.20 fps, Avg. Travel Time= 0.1 min

Peak Storage= 43 cf @ 11.96 hrs
Average Depth at Peak Storage= 1.36' , Surface Width= 2.49'
Bank-Full Depth= 2.50' Flow Area= 4.9 sf, Capacity= 35.27 cfs

30.0" Round Pipe
n= 0.010 PVC, smooth interior
Length= 16.0' Slope= 0.0044 '/'
Inlet Invert= 328.84', Outlet Invert= 328.77'



Summary for Subcatchment 38S: DA-3

Runoff = 3.24 cfs @ 11.93 hrs, Volume= 0.161 af, Depth= 4.49"

Routed to Reach 41R : CB #3

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-120.00 hrs, dt= 0.01 hrs

Type II 24-hr 100 year Rainfall=5.08"

Area (ac)	CN	Description
0.080	80	>75% Grass cover, Good, HSG D
0.350	98	Paved parking, HSG D
0.430		Weighted Average
0.080	80	18.60% Pervious Area
0.350	98	81.40% Impervious Area

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

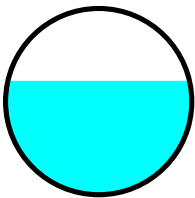
Summary for Reach 41R: CB #3

Inflow Area = 3.250 ac, 84.62% Impervious, Inflow Depth = 4.55" for 100 year event
 Inflow = 23.20 cfs @ 11.95 hrs, Volume= 1.233 af
 Outflow = 23.12 cfs @ 11.96 hrs, Volume= 1.233 af, Atten= 0%, Lag= 0.5 min
 Routed to Reach 42R : CB #2

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.01 hrs
 Max. Velocity= 7.38 fps, Min. Travel Time= 0.3 min
 Avg. Velocity = 2.20 fps, Avg. Travel Time= 1.0 min

Peak Storage= 396 cf @ 11.96 hrs
 Average Depth at Peak Storage= 1.53' , Surface Width= 2.44'
 Bank-Full Depth= 2.50' Flow Area= 4.9 sf, Capacity= 33.59 cfs

30.0" Round Pipe
 n= 0.010 PVC, smooth interior
 Length= 126.0' Slope= 0.0040 '/'
 Inlet Invert= 328.72', Outlet Invert= 328.22'



Summary for Subcatchment 39S: DA-2

Runoff = 10.30 cfs @ 11.93 hrs, Volume= 0.511 af, Depth= 4.47"

Routed to Reach 42R : CB #2

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-120.00 hrs, dt= 0.01 hrs

Type II 24-hr 100 year Rainfall=5.08"

Area (ac)	CN	Description
0.270	80	>75% Grass cover, Good, HSG D
1.100	98	Paved parking, HSG D
1.370		Weighted Average
0.270	80	19.71% Pervious Area
1.100	98	80.29% Impervious Area

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

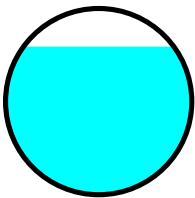
Summary for Reach 42R: CB #2

Inflow Area = 4.620 ac, 83.33% Impervious, Inflow Depth = 4.53" for 100 year event
Inflow = 32.76 cfs @ 11.95 hrs, Volume= 1.744 af
Outflow = 32.73 cfs @ 11.95 hrs, Volume= 1.744 af, Atten= 0%, Lag= 0.1 min
Routed to Reach 43R : CB #1

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.01 hrs
Max. Velocity= 7.83 fps, Min. Travel Time= 0.1 min
Avg. Velocity = 2.44 fps, Avg. Travel Time= 0.2 min

Peak Storage= 126 cf @ 11.95 hrs
Average Depth at Peak Storage= 1.99' , Surface Width= 2.02'
Bank-Full Depth= 2.50' Flow Area= 4.9 sf, Capacity= 33.72 cfs

30.0" Round Pipe
n= 0.010 PVC, smooth interior
Length= 30.0' Slope= 0.0040 '/'
Inlet Invert= 328.17', Outlet Invert= 328.05'



Summary for Subcatchment 40S: DA-1

Runoff = 4.49 cfs @ 11.93 hrs, Volume= 0.224 af, Depth= 4.56"

Routed to Reach 43R : CB #1

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-120.00 hrs, dt= 0.01 hrs

Type II 24-hr 100 year Rainfall=5.08"

Area (ac)	CN	Description
0.090	80	>75% Grass cover, Good, HSG D
0.500	98	Paved parking, HSG D
0.590		Weighted Average
0.090	80	15.25% Pervious Area
0.500	98	84.75% Impervious Area

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

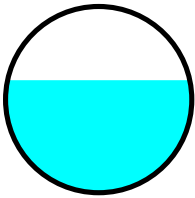
Summary for Reach 43R: CB #1

Inflow Area = 5.210 ac, 83.49% Impervious, Inflow Depth = 4.53" for 100 year event
 Inflow = 37.04 cfs @ 11.95 hrs, Volume= 1.968 af
 Outflow = 36.92 cfs @ 11.96 hrs, Volume= 1.968 af, Atten= 0%, Lag= 0.4 min
 Routed to Link 44L : Gravel Wetland

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.01 hrs
 Max. Velocity= 8.33 fps, Min. Travel Time= 0.3 min
 Avg. Velocity = 2.47 fps, Avg. Travel Time= 0.8 min

Peak Storage= 555 cf @ 11.95 hrs
 Average Depth at Peak Storage= 1.81' , Surface Width= 2.94'
 Bank-Full Depth= 3.00' Flow Area= 7.1 sf, Capacity= 54.84 cfs

36.0" Round Pipe
 n= 0.010 PVC, smooth interior
 Length= 125.0' Slope= 0.0040 '/'
 Inlet Invert= 328.00', Outlet Invert= 327.50'



Summary for Link 44L: Gravel Wetland

Inflow Area = 5.210 ac, 83.49% Impervious, Inflow Depth = 4.53" for 100 year event
Inflow = 36.92 cfs @ 11.96 hrs, Volume= 1.968 af
Primary = 36.92 cfs @ 11.96 hrs, Volume= 1.968 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.01 hrs