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Division of Pennoni

ENGINEERING REPORT

VOLUME 2

Princeton Nurseries

**Block 102, Lots 5 & 6, and Block 106, Lot 1
Plainsboro Township, Middlesex County, New Jersey**

Block 99, Lot 14.04

**South Brunswick Township, Middlesex County,
New Jersey**

A handwritten signature in black ink, appearing to read 'Chad Gaulrapp', is positioned above a horizontal line.

Chad Gaulrapp

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WRNUL23001

June 14, 2024

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POST-DEVELOPED
PROJECTED RAINFALL

Projected Post Dev Tc

Subsection: Time of Concentration Calculations

Label: DA1 Imp

Scenario: 100YR Projected

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.012 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.24 ft/s
Segment Time of Concentration	0.022 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	41.00 ft
Is Paved?	True
Slope	0.012 ft/ft
Average Velocity	2.23 ft/s
Segment Time of Concentration	0.005 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	182.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.016 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.043 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations

Label: DA1 Imp

Scenario: 100YR Projected

Time of Concentration Results

Segment #1: SCS Channel Flow	
Tc =	$R = Qa / Wp$ $V = (1.49 * (R^{0.49} * (S^{0.49} * (2/3)) * (S^{0.49} * 0.5))) / n$ $(Lf / V) / 3600$
Where:	R= Hydraulic radius Aq= Flow area, square feet Wp= Wetted perimeter, feet V= Velocity, ft/sec Sf= Slope, ft/ft n= Manning's n Tc= Time of concentration, hours Lf= Flow length, feet

SCS TR-55 Shallow Concentration Flow

Tc =	Unpaved surface: $V = 16.1345 * (Sf^{0.5})$ Paved Surface: $V = 20.3282 * (Sf^{0.5})$
Where:	$(Lf / V) / 3600$ V= Velocity, ft/sec Sf= Slope, ft/ft Tc= Time of concentration, hours Lf= Flow length, feet

SCS TR-55 Sheet Flow

Tc =	$(0.007 * ((n * Lf)^{0.8})) / ((P^{0.5}) * (Sf^{0.4}))$
Where:	Tc= Time of concentration, hours n= Manning's n Lf= Flow length, feet P= 24hr Rain depth, inches Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA1 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.012 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.24 ft/s
Segment Time of Concentration	0.022 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	41.00 ft
Is Paved?	True
Slope	0.012 ft/ft
Average Velocity	2.23 ft/s
Segment Time of Concentration	0.005 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	182.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.016 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.043 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA1 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Channel Flow

Tc =
$$R = Qa / Wp$$
$$V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$$

$$(Lf / V) / 3600$$

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
$$V = 16.1345 * (Sf**0.5)$$

Paved Surface:
$$V = 20.3282 * (Sf**0.5)$$

Where:
$$(Lf / V) / 3600$$

V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

SCS TR-55 Sheet Flow

Tc =
$$(0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))$$

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 24hr Rain depth, inches
Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA1 Perv Basin
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results	
Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.240
Slope	0.330 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.40 ft/s
Segment Time of Concentration	0.070 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.070 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA1 Perv Basin
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc =
$$R = Qa / Wp$$
$$V = (1.49 * (R^{.48} * (2/3)) * (S^{.48} * 0.5)) / n$$
$$(Lf / V) / 3600$$

Where:

R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
S= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA10 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.015 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.35 ft/s
Segment Time of Concentration	0.021 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	149.00 ft
Is Paved?	True
Slope	0.025 ft/ft
Average Velocity	3.21 ft/s
Segment Time of Concentration	0.013 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.033 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA10 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$

 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (Sf**0.5)$

Paved Surface:
 $V = 20.3282 * (Sf**0.5)$

 $(Lf / V) / 3600$
Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA10 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.015 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.35 ft/s
Segment Time of Concentration	0.021 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	149.00 ft
Is Paved?	True
Slope	0.025 ft/ft
Average Velocity	3.21 ft/s
Segment Time of Concentration	0.013 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.033 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA10 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$

 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (Sf**0.5)$

Paved Surface:
 $V = 20.3282 * (Sf**0.5)$

 $(Lf / V) / 3600$
Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA11 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	15.00 ft
Manning's n	0.240
Slope	0.130 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.19 ft/s
Segment Time of Concentration	0.022 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	271.00 ft
Is Paved?	True
Slope	0.045 ft/ft
Average Velocity	4.31 ft/s
Segment Time of Concentration	0.017 hours
Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	131.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.011 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.051 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA11 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R^{0.48} * (2/3)) * (S^{0.48} * 0.5)) / n$
 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (S^{0.5})$
Paved Surface:
 $V = 20.3282 * (S^{0.5})$
 $(Lf / V) / 3600$
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Where:

SCS TR-55 Sheet Flow

Tc = $(0.007 * ((n * Lf)^{0.8})) / ((P^{0.5}) * (S^{0.48} * 0.4))$
Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 24hr Rain depth, inches
Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA11 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	15.00 ft
Manning's n	0.240
Slope	0.130 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.19 ft/s
Segment Time of Concentration	0.022 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	271.00 ft
Is Paved?	True
Slope	0.045 ft/ft
Average Velocity	4.31 ft/s
Segment Time of Concentration	0.017 hours
Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	131.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.011 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.051 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA11 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R^{.48} * (2/3)) * (S^{.48} * 0.5)) / n$
 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (S^{.48} * 0.5)$
Paved Surface:
 $V = 20.3282 * (S^{.48} * 0.5)$

Where:
 $(Lf / V) / 3600$
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = $(0.007 * ((n * Lf)^{.48} * 0.8)) / ((P^{.48} * 0.5) * (S^{.48} * 0.4))$
Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA12A Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	10.00 ft
Manning's n	0.011
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.96 ft/s
Segment Time of Concentration	0.003 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	120.00 ft
Is Paved?	False
Slope	0.025 ft/ft
Average Velocity	2.55 ft/s
Segment Time of Concentration	0.013 hours
Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	685.00 ft
Manning's n	0.015
Slope	0.006 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.42 ft/s
Segment Time of Concentration	0.056 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.072 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA12A Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R^{.48} * (2/3)) * (S^{.48} * 0.5)) / n$
 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (S^{.48} * 0.5)$
Paved Surface:
 $V = 20.3282 * (S^{.48} * 0.5)$

Where:
 $(Lf / V) / 3600$
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = $(0.007 * ((n * Lf)^{.48} * 0.8)) / ((P^{.48} * 0.5) * (S^{.48} * 0.4))$
Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA12A Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.240
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.13 ft/s
Segment Time of Concentration	0.215 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	30.00 ft
Is Paved?	False
Slope	0.025 ft/ft
Average Velocity	2.55 ft/s
Segment Time of Concentration	0.003 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	685.00 ft
Manning's n	0.015
Slope	0.006 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.42 ft/s
Segment Time of Concentration	0.056 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.274 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA12A Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R^{.66} * (2/3)) * (S^{.48} * 0.5)) / n$
 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (S^{.48} * 0.5)$
Paved Surface:
 $V = 20.3282 * (S^{.48} * 0.5)$

Where:
 $(Lf / V) / 3600$
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = $(0.007 * ((n * Lf)^{.48} * 0.8)) / ((P^{.48} * 0.5) * (S^{.48} * 0.4))$
Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 24hr Rain depth, inches
Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA13 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.014 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.30 ft/s
Segment Time of Concentration	0.021 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	54.00 ft
Is Paved?	True
Slope	0.014 ft/ft
Average Velocity	2.36 ft/s
Segment Time of Concentration	0.006 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.028 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA13 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$

 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (Sf**0.5)$

Paved Surface:
 $V = 20.3282 * (Sf**0.5)$

 $(Lf / V) / 3600$
Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA13 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.014 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.30 ft/s
Segment Time of Concentration	0.021 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	54.00 ft
Is Paved?	True
Slope	0.014 ft/ft
Average Velocity	2.36 ft/s
Segment Time of Concentration	0.006 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.028 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA13 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$

 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (Sf**0.5)$

Paved Surface:
 $V = 20.3282 * (Sf**0.5)$

 $(Lf / V) / 3600$
Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA14 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.014 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.30 ft/s
Segment Time of Concentration	0.021 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	111.00 ft
Is Paved?	True
Slope	0.014 ft/ft
Average Velocity	2.36 ft/s
Segment Time of Concentration	0.013 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.034 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA14 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$

 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (Sf**0.5)$

Paved Surface:
 $V = 20.3282 * (Sf**0.5)$

 $(Lf / V) / 3600$
Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA14 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.014 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.30 ft/s
Segment Time of Concentration	0.021 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	111.00 ft
Is Paved?	True
Slope	0.014 ft/ft
Average Velocity	2.36 ft/s
Segment Time of Concentration	0.013 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.034 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA14 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$

 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (Sf**0.5)$

Paved Surface:
 $V = 20.3282 * (Sf**0.5)$

 $(Lf / V) / 3600$
Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA15 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	24.00 ft
Manning's n	0.011
Slope	0.033 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.39 ft/s
Segment Time of Concentration	0.005 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	286.00 ft
Is Paved?	True
Slope	0.024 ft/ft
Average Velocity	3.15 ft/s
Segment Time of Concentration	0.025 hours
Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	104.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.04 ft/s
Segment Time of Concentration	0.010 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.040 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA15 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$
 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (Sf**0.5)$
Paved Surface:
 $V = 20.3282 * (Sf**0.5)$

Where:
 $(Lf / V) / 3600$
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = $(0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))$
Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA15 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	24.00 ft
Manning's n	0.011
Slope	0.033 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.39 ft/s
Segment Time of Concentration	0.005 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	286.00 ft
Is Paved?	True
Slope	0.024 ft/ft
Average Velocity	3.15 ft/s
Segment Time of Concentration	0.025 hours
Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	104.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.04 ft/s
Segment Time of Concentration	0.010 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.040 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA15 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$
 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (Sf**0.5)$
Paved Surface:
 $V = 20.3282 * (Sf**0.5)$

Where:
 $(Lf / V) / 3600$
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = $(0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))$
Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 24hr Rain depth, inches
Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA16 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results	
Segment #1: TR-55 Sheet Flow	
Hydraulic Length	20.00 ft
Manning's n	0.011
Slope	0.030 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.29 ft/s
Segment Time of Concentration	0.004 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	235.00 ft
Is Paved?	True
Slope	0.013 ft/ft
Average Velocity	2.32 ft/s
Segment Time of Concentration	0.028 hours
Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	156.00 ft
Manning's n	0.015
Slope	0.008 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.92 ft/s
Segment Time of Concentration	0.011 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.044 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA16 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R^{0.49} * (S^{0.49} * (2/3))) * (S^{0.49} * 0.5))) / n$
 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (Sf^{0.5})$
Paved Surface:
 $V = 20.3282 * (Sf^{0.5})$

Where:
 $(Lf / V) / 3600$
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

SCS TR-55 Sheet Flow

Tc = $(0.007 * ((n * Lf)^{0.8})) / ((P^{0.5}) * (Sf^{0.4}))$
Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 24hr Rain depth, inches
Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA16 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	67.00 ft
Manning's n	0.240
Slope	0.110 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.24 ft/s
Segment Time of Concentration	0.079 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	235.00 ft
Is Paved?	True
Slope	0.013 ft/ft
Average Velocity	2.32 ft/s
Segment Time of Concentration	0.028 hours
Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	156.00 ft
Manning's n	0.015
Slope	0.008 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.92 ft/s
Segment Time of Concentration	0.011 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.118 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA16 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R^{**}(2/3)) * (S^{**}0.5)) / n$
 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (S^{**}0.5)$
Paved Surface:
 $V = 20.3282 * (S^{**}0.5)$

Where:
 $(Lf / V) / 3600$
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = $(0.007 * ((n * Lf)^{**}0.8)) / ((P^{**}0.5) * (S^{**}0.4))$
Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 24hr Rain depth, inches
Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA17 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.015 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.35 ft/s
Segment Time of Concentration	0.021 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	63.00 ft
Is Paved?	True
Slope	0.015 ft/ft
Average Velocity	2.49 ft/s
Segment Time of Concentration	0.007 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.028 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA17 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc =
$$R = Qa / Wp$$
$$V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$$
$$(Lf / V) / 3600$$

Where:

R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
$$\text{Unpaved surface:}$$
$$V = 16.1345 * (Sf**0.5)$$
$$\text{Paved Surface:}$$
$$V = 20.3282 * (Sf**0.5)$$
$$(Lf / V) / 3600$$

Where:

V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA17 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	17.00 ft
Manning's n	0.240
Slope	0.030 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.11 ft/s
Segment Time of Concentration	0.044 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	263.00 ft
Is Paved?	True
Slope	0.015 ft/ft
Average Velocity	2.49 ft/s
Segment Time of Concentration	0.029 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.074 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA17 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$

 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (Sf**0.5)$

Paved Surface:
 $V = 20.3282 * (Sf**0.5)$

 $(Lf / V) / 3600$
Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA18 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	50.00 ft
Manning's n	0.240
Slope	0.040 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.15 ft/s
Segment Time of Concentration	0.094 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	149.00 ft
Is Paved?	True
Slope	0.010 ft/ft
Average Velocity	2.03 ft/s
Segment Time of Concentration	0.020 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	292.00 ft
Manning's n	0.015
Slope	0.027 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	7.44 ft/s
Segment Time of Concentration	0.011 hours

Segment #4: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	32.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.003 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.128 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA18 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Channel Flow

Tc =
$$R = Qa / Wp$$
$$V = (1.49 * (R^{0.49} * (S^{0.49} * (2/3))) * (S^{0.49} * 0.5)) / n$$

$$(Lf / V) / 3600$$

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
$$V = 16.1345 * (S^{0.49} * 0.5)$$

Paved Surface:
$$V = 20.3282 * (S^{0.49} * 0.5)$$

Where:
$$(Lf / V) / 3600$$

V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

SCS TR-55 Sheet Flow

Tc =
Where:
$$(0.007 * ((n * Lf)^{0.8})) / ((P^{0.5} * 0.5) * (S^{0.49} * 0.4))$$

Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2Yr, 24hr Rain depth, inches
Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA18 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	50.00 ft
Manning's n	0.240
Slope	0.040 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.15 ft/s
Segment Time of Concentration	0.094 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	149.00 ft
Is Paved?	True
Slope	0.010 ft/ft
Average Velocity	2.03 ft/s
Segment Time of Concentration	0.020 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	292.00 ft
Manning's n	0.015
Slope	0.027 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	7.44 ft/s
Segment Time of Concentration	0.011 hours

Segment #4: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	32.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.003 hours

Time of Concentration (Composite)

Time of Concentration (Composite)	0.128 hours
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Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA18 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc =
$$R = Qa / Wp$$
$$V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$$

$$(Lf / V) / 3600$$

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (Sf**0.5)$
Paved Surface:
 $V = 20.3282 * (Sf**0.5)$

Where:
 $(Lf / V) / 3600$
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc =
Where:
$$(0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))$$

Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2Yr, 24hr Rain depth, inches
Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA19 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	26.00 ft
Manning's n	0.240
Slope	0.016 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.09 ft/s
Segment Time of Concentration	0.080 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	224.00 ft
Is Paved?	True
Slope	0.028 ft/ft
Average Velocity	3.40 ft/s
Segment Time of Concentration	0.018 hours
Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	6.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.001 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.099 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA19 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc =
$$R = Qa / Wp$$
$$V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$$

$$(Lf / V) / 3600$$

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (Sf**0.5)$
Paved Surface:
 $V = 20.3282 * (Sf**0.5)$

Where:
 $(Lf / V) / 3600$
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc =
$$(0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))$$

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 24hr Rain depth, inches
Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA19 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	26.00 ft
Manning's n	0.240
Slope	0.016 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.09 ft/s
Segment Time of Concentration	0.080 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	224.00 ft
Is Paved?	True
Slope	0.028 ft/ft
Average Velocity	3.40 ft/s
Segment Time of Concentration	0.018 hours
Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	6.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.001 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.099 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA19 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R^{0.49} * (S^{0.49} * (2/3))) * (S^{0.49} * 0.5))) / n$
 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (Sf^{0.5})$
Paved Surface:
 $V = 20.3282 * (Sf^{0.5})$

Where:
 $(Lf / V) / 3600$
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

SCS TR-55 Sheet Flow

Tc = $(0.007 * ((n * Lf)^{0.8})) / ((P^{0.5}) * (Sf^{0.4}))$
Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 24hr Rain depth, inches
Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA2 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.013 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.28 ft/s
Segment Time of Concentration	0.022 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	70.00 ft
Is Paved?	True
Slope	0.013 ft/ft
Average Velocity	2.32 ft/s
Segment Time of Concentration	0.008 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.030 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA2 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc =
$$R = Qa / Wp$$
$$V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$$

$$(Lf / V) / 3600$$

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
$$V = 16.1345 * (Sf**0.5)$$

Paved Surface:
$$V = 20.3282 * (Sf**0.5)$$

$$(Lf / V) / 3600$$

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA2 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	10.00 ft
Manning's n	0.240
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.08 ft/s
Segment Time of Concentration	0.034 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	170.00 ft
Is Paved?	True
Slope	0.013 ft/ft
Average Velocity	2.32 ft/s
Segment Time of Concentration	0.020 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.055 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA2 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$

 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (Sf**0.5)$

Paved Surface:
 $V = 20.3282 * (Sf**0.5)$

 $(Lf / V) / 3600$
Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA20 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	20.00 ft
Manning's n	0.011
Slope	0.025 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.20 ft/s
Segment Time of Concentration	0.005 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	208.00 ft
Is Paved?	True
Slope	0.012 ft/ft
Average Velocity	2.23 ft/s
Segment Time of Concentration	0.026 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	85.00 ft
Manning's n	0.015
Slope	0.047 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	9.81 ft/s
Segment Time of Concentration	0.002 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.033 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA20 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc =
$$R = Qa / Wp$$
$$V = (1.49 * (R^{.48} * (2/3)) * (S^{.48} * 0.5)) / n$$

$$(Lf / V) / 3600$$

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
$$V = 16.1345 * (S^{.48} * 0.5)$$

Paved Surface:
$$V = 20.3282 * (S^{.48} * 0.5)$$

Where:
$$(Lf / V) / 3600$$

V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc =
Where:
$$(0.007 * ((n * Lf)^{.48} * 0.8)) / ((P^{.48} * 0.5) * (S^{.48} * 0.4))$$

Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 24hr Rain depth, inches
Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA20 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	20.00 ft
Manning's n	0.011
Slope	0.030 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.29 ft/s
Segment Time of Concentration	0.004 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	208.00 ft
Is Paved?	True
Slope	0.012 ft/ft
Average Velocity	2.23 ft/s
Segment Time of Concentration	0.026 hours
Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	85.00 ft
Manning's n	0.015
Slope	0.047 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	9.81 ft/s
Segment Time of Concentration	0.002 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.033 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA20 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$
 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (Sf**0.5)$
Paved Surface:
 $V = 20.3282 * (Sf**0.5)$

Where:
 $(Lf / V) / 3600$
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = $(0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))$
Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 24hr Rain depth, inches
Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA21 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	58.00 ft
Manning's n	0.240
Slope	0.170 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.27 ft/s
Segment Time of Concentration	0.059 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	149.00 ft
Is Paved?	True
Slope	0.010 ft/ft
Average Velocity	2.03 ft/s
Segment Time of Concentration	0.020 hours
Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	40.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.003 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.083 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA21 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R^{.48} * (2/3)) * (S^{.48} * 0.5)) / n$
 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (S^{.48} * 0.5)$
Paved Surface:
 $V = 20.3282 * (S^{.48} * 0.5)$

Where:
 $(Lf / V) / 3600$
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = $(0.007 * ((n * Lf)^{.48} * 0.8)) / ((P^{.48} * 0.5) * (S^{.48} * 0.4))$
Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 24hr Rain depth, inches
Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA21 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	58.00 ft
Manning's n	0.240
Slope	0.170 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.27 ft/s
Segment Time of Concentration	0.059 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	149.00 ft
Is Paved?	True
Slope	0.010 ft/ft
Average Velocity	2.03 ft/s
Segment Time of Concentration	0.020 hours
Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	30.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.003 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.082 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA21 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R^{.48} * (2/3)) * (S^{.48} * 0.5)) / n$
 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (Sf^{.58} * 0.5)$
Paved Surface:
 $V = 20.3282 * (Sf^{.58} * 0.5)$

Where:
 $(Lf / V) / 3600$
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = $(0.007 * ((n * Lf)^{.48} * 0.8)) / ((P^{.48} * 0.5) * (Sf^{.48} * 0.4))$
Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA22 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.033 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.86 ft/s
Segment Time of Concentration	0.015 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	45.00 ft
Is Paved?	True
Slope	0.033 ft/ft
Average Velocity	3.69 ft/s
Segment Time of Concentration	0.003 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	41.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.004 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.022 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA22 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc =
$$R = Qa / Wp$$
$$V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$$

$$(Lf / V) / 3600$$

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (Sf**0.5)$
Paved Surface:
 $V = 20.3282 * (Sf**0.5)$

Where:
 $(Lf / V) / 3600$
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc =
$$(0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))$$

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 24hr Rain depth, inches
Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA22 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	51.00 ft
Manning's n	0.011
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.33 ft/s
Segment Time of Concentration	0.011 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	53.00 ft
Is Paved?	False
Slope	0.020 ft/ft
Average Velocity	2.28 ft/s
Segment Time of Concentration	0.006 hours

Segment #3: TR-55 Shallow Concentrated Flow	
Hydraulic Length	35.00 ft
Is Paved?	True
Slope	0.028 ft/ft
Average Velocity	3.40 ft/s
Segment Time of Concentration	0.003 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.020 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA22 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$

(Lf / V) / 3600
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (Sf**0.5)$

Paved Surface:
 $V = 20.3282 * (Sf**0.5)$

(Lf / V) / 3600
Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA25 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.034 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.88 ft/s
Segment Time of Concentration	0.015 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	29.00 ft
Is Paved?	True
Slope	0.034 ft/ft
Average Velocity	3.75 ft/s
Segment Time of Concentration	0.002 hours
Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	920.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.080 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.097 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA25 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$
 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (Sf**0.5)$
Paved Surface:
 $V = 20.3282 * (Sf**0.5)$

Where:
 $(Lf / V) / 3600$
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = $(0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))$
Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 24hr Rain depth, inches
Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA25 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.034 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.88 ft/s
Segment Time of Concentration	0.015 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	29.00 ft
Is Paved?	True
Slope	0.034 ft/ft
Average Velocity	3.75 ft/s
Segment Time of Concentration	0.002 hours
Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	920.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.080 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.097 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA25 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc =
$$R = Qa / Wp$$
$$V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$$

$$(Lf / V) / 3600$$

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (Sf**0.5)$
Paved Surface:
 $V = 20.3282 * (Sf**0.5)$

Where:
 $(Lf / V) / 3600$
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc =
$$(0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))$$

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 24hr Rain depth, inches
Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA26 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.015 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.35 ft/s
Segment Time of Concentration	0.021 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	315.00 ft
Is Paved?	True
Slope	0.015 ft/ft
Average Velocity	2.49 ft/s
Segment Time of Concentration	0.035 hours
Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	195.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.017 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.073 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA26 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc =
$$R = Qa / Wp$$
$$V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$$

$$(Lf / V) / 3600$$

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
$$V = 16.1345 * (Sf**0.5)$$

Paved Surface:
$$V = 20.3282 * (Sf**0.5)$$

Where:
$$(Lf / V) / 3600$$

V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc =
$$(0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))$$

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 24hr Rain depth, inches
Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA26 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.015 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.35 ft/s
Segment Time of Concentration	0.021 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	315.00 ft
Is Paved?	True
Slope	0.015 ft/ft
Average Velocity	2.49 ft/s
Segment Time of Concentration	0.035 hours
Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	195.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.017 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.073 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA26 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc =
$$R = Qa / Wp$$
$$V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$$

$$(Lf / V) / 3600$$

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (Sf**0.5)$
Paved Surface:
 $V = 20.3282 * (Sf**0.5)$

Where:
 $(Lf / V) / 3600$
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc =
$$(0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))$$

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA28 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.012 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.24 ft/s
Segment Time of Concentration	0.022 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	111.00 ft
Is Paved?	True
Slope	0.012 ft/ft
Average Velocity	2.23 ft/s
Segment Time of Concentration	0.014 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.036 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA28 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$

 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (Sf**0.5)$

Paved Surface:
 $V = 20.3282 * (Sf**0.5)$

 $(Lf / V) / 3600$
Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA28 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	83.00 ft
Manning's n	0.240
Slope	0.015 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.11 ft/s
Segment Time of Concentration	0.208 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	228.00 ft
Is Paved?	True
Slope	0.013 ft/ft
Average Velocity	2.32 ft/s
Segment Time of Concentration	0.027 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.236 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA28 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$

 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (Sf**0.5)$

Paved Surface:
 $V = 20.3282 * (Sf**0.5)$

 $(Lf / V) / 3600$
Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA30 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results	
Segment #1: TR-55 Sheet Flow	
Hydraulic Length	25.00 ft
Manning's n	0.011
Slope	0.048 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.63 ft/s
Segment Time of Concentration	0.004 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	194.00 ft
Is Paved?	True
Slope	0.012 ft/ft
Average Velocity	2.23 ft/s
Segment Time of Concentration	0.024 hours
Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	54.00 ft
Manning's n	0.015
Slope	0.007 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.79 ft/s
Segment Time of Concentration	0.004 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.032 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA30 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R^{.48} * (2/3)) * (S^{.48} * 0.5)) / n$
 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (S^{.48} * 0.5)$
Paved Surface:
 $V = 20.3282 * (S^{.48} * 0.5)$

Where:
 $(Lf / V) / 3600$
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

SCS TR-55 Sheet Flow

Tc = $(0.007 * ((n * Lf)^{.48} * 0.8)) / ((P^{.48} * 0.5) * (S^{.48} * 0.4))$
Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 24hr Rain depth, inches
Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA30 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	55.00 ft
Manning's n	0.240
Slope	0.050 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.17 ft/s
Segment Time of Concentration	0.093 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	194.00 ft
Is Paved?	True
Slope	0.012 ft/ft
Average Velocity	2.23 ft/s
Segment Time of Concentration	0.024 hours
Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	54.00 ft
Manning's n	0.015
Slope	0.007 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.79 ft/s
Segment Time of Concentration	0.004 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.121 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA30 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc =
 $R = Qa / Wp$
 $V = (1.49 * (R^{.66} * (2/3)) * (S^{.48} * 0.5)) / n$
 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (S^{.48} * 0.5)$
Paved Surface:
 $V = 20.3282 * (S^{.48} * 0.5)$

Where:
 $(Lf / V) / 3600$
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc =
Where:
 $(0.007 * ((n * Lf)^{.48} * 0.8)) / ((P^{.48} * 0.5) * (S^{.48} * 0.4))$
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 24hr Rain depth, inches
Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA31 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results	
Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.022 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.58 ft/s
Segment Time of Concentration	0.018 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	295.00 ft
Is Paved?	True
Slope	0.034 ft/ft
Average Velocity	3.75 ft/s
Segment Time of Concentration	0.022 hours
Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	93.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.008 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.048 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA31 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$
 $(Lf / V) / 3600$

Where:

R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =

Unpaved surface:
 $V = 16.1345 * (Sf**0.5)$

Paved Surface:
 $V = 20.3282 * (Sf**0.5)$

Where:

$(Lf / V) / 3600$
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = $(0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))$

Where:

Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 24hr Rain depth, inches
Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA31 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	15.00 ft
Manning's n	0.240
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.09 ft/s
Segment Time of Concentration	0.047 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	379.00 ft
Is Paved?	True
Slope	0.034 ft/ft
Average Velocity	3.75 ft/s
Segment Time of Concentration	0.028 hours
Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	93.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.008 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.083 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA31 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$
 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (Sf**0.5)$
Paved Surface:
 $V = 20.3282 * (Sf**0.5)$

Where:
 $(Lf / V) / 3600$
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = $(0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))$
Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 24hr Rain depth, inches
Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA32 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.026 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.69 ft/s
Segment Time of Concentration	0.016 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	42.00 ft
Is Paved?	True
Slope	0.026 ft/ft
Average Velocity	3.28 ft/s
Segment Time of Concentration	0.004 hours
Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	126.00 ft
Manning's n	0.015
Slope	0.006 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.51 ft/s
Segment Time of Concentration	0.010 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.030 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA32 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R^{0.49} * (2/3)) * (S^{0.49} * 0.5)) / n$
 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (S^{0.5})$
Paved Surface:
 $V = 20.3282 * (S^{0.5})$
 $(Lf / V) / 3600$

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = $(0.007 * ((n * Lf)^{0.8})) / ((P^{0.5}) * (S^{0.49} * 0.4))$
Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 24hr Rain depth, inches
Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA32 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.026 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.69 ft/s
Segment Time of Concentration	0.016 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	42.00 ft
Is Paved?	True
Slope	0.026 ft/ft
Average Velocity	3.28 ft/s
Segment Time of Concentration	0.004 hours
Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	126.00 ft
Manning's n	0.015
Slope	0.006 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.51 ft/s
Segment Time of Concentration	0.010 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.030 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA32 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$
 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (Sf**0.5)$
Paved Surface:
 $V = 20.3282 * (Sf**0.5)$

Where:
 $(Lf / V) / 3600$
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = $(0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))$
Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 24hr Rain depth, inches
Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA33 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.012 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.24 ft/s
Segment Time of Concentration	0.022 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	81.00 ft
Is Paved?	True
Slope	0.012 ft/ft
Average Velocity	2.23 ft/s
Segment Time of Concentration	0.010 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.033 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA33 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc =
$$R = Qa / Wp$$
$$V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$$

$$(Lf / V) / 3600$$

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
$$V = 16.1345 * (Sf**0.5)$$

Paved Surface:
$$V = 20.3282 * (Sf**0.5)$$

$$(Lf / V) / 3600$$

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA33 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.012 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.24 ft/s
Segment Time of Concentration	0.022 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	81.00 ft
Is Paved?	True
Slope	0.012 ft/ft
Average Velocity	2.23 ft/s
Segment Time of Concentration	0.010 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.033 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA33 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$

 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (Sf**0.5)$

Paved Surface:
 $V = 20.3282 * (Sf**0.5)$

 $(Lf / V) / 3600$
Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA34 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.011 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.20 ft/s
Segment Time of Concentration	0.023 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	109.00 ft
Is Paved?	True
Slope	0.011 ft/ft
Average Velocity	2.13 ft/s
Segment Time of Concentration	0.014 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.037 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA34 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc =
$$R = Qa / Wp$$
$$V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$$

$$(Lf / V) / 3600$$

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
$$V = 16.1345 * (Sf**0.5)$$

Paved Surface:
$$V = 20.3282 * (Sf**0.5)$$

$$(Lf / V) / 3600$$

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA34 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.011 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.20 ft/s
Segment Time of Concentration	0.023 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	109.00 ft
Is Paved?	True
Slope	0.011 ft/ft
Average Velocity	2.13 ft/s
Segment Time of Concentration	0.014 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.037 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA34 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$

 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (Sf**0.5)$

Paved Surface:
 $V = 20.3282 * (Sf**0.5)$

 $(Lf / V) / 3600$
Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA35 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results	
Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.012 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.24 ft/s
Segment Time of Concentration	0.022 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	100.00 ft
Is Paved?	True
Slope	0.012 ft/ft
Average Velocity	2.23 ft/s
Segment Time of Concentration	0.012 hours
Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	121.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.010 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.045 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA35 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R^{.48} * (2/3)) * (S^{.48} * 0.5)) / n$
 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (S^{.48} * 0.5)$
Paved Surface:
 $V = 20.3282 * (S^{.48} * 0.5)$
 $(Lf / V) / 3600$
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Where:

==== SCS TR-55 Sheet Flow

Tc = $(0.007 * ((n * Lf)^{.48} * 0.8)) / ((P^{.48} * 0.5) * (S^{.48} * 0.4))$
Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 24hr Rain depth, inches
Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA35 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	45.00 ft
Manning's n	0.240
Slope	0.050 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.16 ft/s
Segment Time of Concentration	0.079 hours

Time of Concentration (Composite)

Time of Concentration (Composite)	0.079 hours
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Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA35 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Channel Flow

Tc =
$$R = Qa / Wp$$
$$V = (1.49 * (R^{.48} * (2/3)) * (S^{.48} * 0.55)) / n$$
$$(Lf / V) / 3600$$

Where:

R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
S= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA36 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.035 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.90 ft/s
Segment Time of Concentration	0.015 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	145.00 ft
Is Paved?	True
Slope	0.035 ft/ft
Average Velocity	3.80 ft/s
Segment Time of Concentration	0.011 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.025 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA36 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$

 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (Sf**0.5)$

Paved Surface:
 $V = 20.3282 * (Sf**0.5)$

 $(Lf / V) / 3600$
Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA36 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.015
Slope	0.035 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.48 ft/s
Segment Time of Concentration	0.019 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	145.00 ft
Is Paved?	True
Slope	0.035 ft/ft
Average Velocity	3.80 ft/s
Segment Time of Concentration	0.011 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.029 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA36 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$

 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (Sf**0.5)$

Paved Surface:
 $V = 20.3282 * (Sf**0.5)$

 $(Lf / V) / 3600$
Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA37 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.52 ft/s
Segment Time of Concentration	0.018 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	145.00 ft
Is Paved?	True
Slope	0.023 ft/ft
Average Velocity	3.10 ft/s
Segment Time of Concentration	0.013 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.031 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA37 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$

 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (Sf**0.5)$

Paved Surface:
 $V = 20.3282 * (Sf**0.5)$

 $(Lf / V) / 3600$
Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA37 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	31.00 ft
Manning's n	0.240
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.10 ft/s
Segment Time of Concentration	0.084 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	223.00 ft
Is Paved?	True
Slope	0.023 ft/ft
Average Velocity	3.10 ft/s
Segment Time of Concentration	0.020 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.104 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA37 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$

 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (Sf**0.5)$

Paved Surface:
 $V = 20.3282 * (Sf**0.5)$

 $(Lf / V) / 3600$
Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA4 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.055 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	2.28 ft/s
Segment Time of Concentration	0.012 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	50.00 ft
Is Paved?	True
Slope	0.055 ft/ft
Average Velocity	4.77 ft/s
Segment Time of Concentration	0.003 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.020 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA4 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$

 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (Sf**0.5)$

Paved Surface:
 $V = 20.3282 * (Sf**0.5)$

 $(Lf / V) / 3600$
Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA4 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.055 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	2.28 ft/s
Segment Time of Concentration	0.012 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	50.00 ft
Is Paved?	True
Slope	0.055 ft/ft
Average Velocity	4.77 ft/s
Segment Time of Concentration	0.003 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.020 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA4 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc =
$$R = Qa / Wp$$
$$V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$$

$$(Lf / V) / 3600$$

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
$$V = 16.1345 * (Sf**0.5)$$

Unpaved surface:
$$V = 20.3282 * (Sf**0.5)$$

Paved Surface:
$$(Lf / V) / 3600$$

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA41 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	88.00 ft
Manning's n	0.011
Slope	0.040 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.95 ft/s
Segment Time of Concentration	0.013 hours

Time of Concentration (Composite)

Time of Concentration (Composite)	0.020 hours
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Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA41 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

=== SCS Channel Flow

Tc =
$$R = Qa / Wp$$
$$V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$$
$$(Lf / V) / 3600$$

Where:

R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA41 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	88.00 ft
Manning's n	0.011
Slope	0.040 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.95 ft/s
Segment Time of Concentration	0.013 hours

Time of Concentration (Composite)

Time of Concentration (Composite)	0.020 hours
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Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA41 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

=== SCS Channel Flow

Tc =
$$R = Qa / Wp$$
$$V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$$
$$(Lf / V) / 3600$$

Where:

R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA42 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.033 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.86 ft/s
Segment Time of Concentration	0.015 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	150.00 ft
Is Paved?	True
Slope	0.033 ft/ft
Average Velocity	3.69 ft/s
Segment Time of Concentration	0.011 hours
Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	46.00 ft
Manning's n	0.015
Slope	0.018 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	6.07 ft/s
Segment Time of Concentration	0.002 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.028 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA42 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R^{0.49} * (2/3)) * (S^{0.49} * 0.5)) / n$
 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (S^{0.5})$
Paved Surface:
 $V = 20.3282 * (S^{0.5})$
 $(Lf / V) / 3600$

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = $(0.007 * ((n * Lf)^{0.8})) / ((P^{0.5}) * (S^{0.49} * 0.4))$
Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 24hr Rain depth, inches
Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA42 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.033 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.86 ft/s
Segment Time of Concentration	0.015 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	150.00 ft
Is Paved?	True
Slope	0.033 ft/ft
Average Velocity	3.69 ft/s
Segment Time of Concentration	0.011 hours
Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	46.00 ft
Manning's n	0.015
Slope	0.018 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	6.07 ft/s
Segment Time of Concentration	0.002 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.028 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA42 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc =
$$R = Qa / Wp$$
$$V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$$

$$(Lf / V) / 3600$$

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (Sf**0.5)$
Paved Surface:
 $V = 20.3282 * (Sf**0.5)$

Where:
 $(Lf / V) / 3600$
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc =
$$(0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))$$

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 24hr Rain depth, inches
Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA43 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	54.00 ft
Manning's n	0.011
Slope	0.010 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.02 ft/s
Segment Time of Concentration	0.015 hours

Time of Concentration (Composite)

Time of Concentration (Composite)	0.020 hours
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Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA43 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

=== SCS Channel Flow

Tc =
$$R = Qa / Wp$$
$$V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$$
$$(Lf / V) / 3600$$

Where:

R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA43 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	50.00 ft
Manning's n	0.240
Slope	0.045 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.16 ft/s
Segment Time of Concentration	0.089 hours

Time of Concentration (Composite)

Time of Concentration (Composite)	0.089 hours
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Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA43 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

=== SCS Channel Flow

Tc =
$$R = Qa / Wp$$
$$V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$$
$$(Lf / V) / 3600$$

Where:

R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA44 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	60.00 ft
Manning's n	0.011
Slope	0.012 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.12 ft/s
Segment Time of Concentration	0.015 hours

Segment #2: TR-55 Channel Flow

Flow Area	1.2 ft²
Hydraulic Length	72.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.006 hours

Time of Concentration (Composite)

Time of Concentration (Composite)	0.021 hours
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Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA44 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc =
$$R = Qa / Wp$$
$$V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$$
$$(Lf / V) / 3600$$

Where:

R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc =
$$(0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))$$

Where:

Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 24hr Rain depth, inches
Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA44 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	60.00 ft
Manning's n	0.011
Slope	0.012 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.12 ft/s
Segment Time of Concentration	0.015 hours

Segment #2: TR-55 Channel Flow

Flow Area	1.2 ft²
Hydraulic Length	72.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.006 hours

Time of Concentration (Composite)

Time of Concentration (Composite)	0.021 hours
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Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA44 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc =
$$R = Qa / Wp$$
$$V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$$
$$(Lf / V) / 3600$$

Where:

R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc =
$$(0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))$$

Where:

Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 24hr Rain depth, inches
Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA45 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	55.00 ft
Manning's n	0.015
Slope	0.022 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.09 ft/s
Segment Time of Concentration	0.014 hours

Segment #2: TR-55 Channel Flow

Flow Area	1.2 ft²
Hydraulic Length	437.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.038 hours

Segment #3: TR-55 Channel Flow

Flow Area	1.8 ft²
Hydraulic Length	49.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	4.70 ft
Average Velocity	3.70 ft/s
Segment Time of Concentration	0.004 hours

Segment #4: TR-55 Channel Flow

Flow Area	3.1 ft²
Hydraulic Length	129.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	6.30 ft
Average Velocity	4.38 ft/s
Segment Time of Concentration	0.008 hours

Segment #5: TR-55 Channel Flow

Flow Area	7.1 ft²
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Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA45 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Segment #5: TR-55 Channel Flow

Hydraulic Length	162.00 ft
Manning's n	0.015
Slope	0.003 ft/ft
Wetted Perimeter	9.40 ft
Average Velocity	4.51 ft/s
Segment Time of Concentration	0.010 hours

Time of Concentration (Composite)

Time of Concentration (Composite)	0.074 hours
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Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA45 Imp
Scenario: 100YR Projected
Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Channel Flow

Tc =
$$R = Qa / Wp$$
$$V = (1.49 * (R^{.66} * (2/3))) * (S^{.66} * 0.5)) / n$$

Where:

- R= Hydraulic radius
- Aq= Flow area, square feet
- Wp= Wetted perimeter, feet
- V= Velocity, ft/sec
- Sf= Slope, ft/ft
- n= Manning's n
- Tc= Time of concentration, hours
- Lf= Flow length, feet

SCS TR-55 Sheet Flow

Tc =
$$(0.007 * ((n * L)^{.48} * 0.8)) / ((P^{.48} * 0.5) * (S^{.48} * 0.4))$$

Where:

- Tc= Time of concentration, hours
- n= Manning's n
- Lf= Flow length, feet
- P= 24hr Rain depth, inches
- Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA45 Perv
Scenario: 100YR Projected
Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	16.00 ft
Manning's n	0.240
Slope	0.059 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.14 ft/s
Segment Time of Concentration	0.032 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	42.00 ft
Is Paved?	True
Slope	0.020 ft/ft
Average Velocity	2.87 ft/s
Segment Time of Concentration	0.004 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	437.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.038 hours

Segment #4: TR-55 Channel Flow	
Flow Area	1.8 ft²
Hydraulic Length	49.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	4.70 ft
Average Velocity	3.70 ft/s
Segment Time of Concentration	0.004 hours

Segment #5: TR-55 Channel Flow	
Flow Area	3.1 ft²
Hydraulic Length	129.00 ft
Manning's n	0.015

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA45 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Segment #6: TR-55 Channel Flow	
Slope	0.005 ft/ft
Wetted Perimeter	6.30 ft
Average Velocity	4.38 ft/s
Segment Time of Concentration	0.008 hours

Segment #6: TR-55 Channel Flow	
Flow Area	7.1 ft²
Hydraulic Length	162.00 ft
Manning's n	0.015
Slope	0.003 ft/ft
Wetted Perimeter	9.40 ft
Average Velocity	4.51 ft/s
Segment Time of Concentration	0.010 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.096 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA45 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc =
$$V = (1.49 * (R^{.667} * (2/3)) * (S^{.485} * 0.5)) / n$$

$$(L_f / V) / 3600$$

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
$$V = 16.1345 * (S^{.485} * 0.5)$$

Paved Surface:
$$V = 20.3282 * (S^{.485} * 0.5)$$

Where:
$$(L_f / V) / 3600$$

V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc =
$$(0.007 * ((n * L_f)^{.485}) / ((P^{.485} * 0.5) * (S^{.485} * 0.4)))$$

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 24hr Rain depth, inches
Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA46 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results	
Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.025 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.66 ft/s
Segment Time of Concentration	0.017 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	92.00 ft
Is Paved?	True
Slope	0.025 ft/ft
Average Velocity	3.21 ft/s
Segment Time of Concentration	0.008 hours
Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	58.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.005 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.030 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA46 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$
 $(Lf / V) / 3600$

Where:

R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =

Unpaved surface:
 $V = 16.1345 * (Sf**0.5)$

Paved Surface:
 $V = 20.3282 * (Sf**0.5)$

Where:

$(Lf / V) / 3600$
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = $(0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))$

Where:

Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 24hr Rain depth, inches
Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA46 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results	
Segment #1: TR-55 Sheet Flow	
Hydraulic Length	43.00 ft
Manning's n	0.240
Slope	0.040 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.14 ft/s
Segment Time of Concentration	0.084 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	136.00 ft
Is Paved?	True
Slope	0.025 ft/ft
Average Velocity	3.21 ft/s
Segment Time of Concentration	0.012 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	58.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.005 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.100 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA46 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R^{.667} * (2/3)) * (S^{.667} * 0.5)) / n$
 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (S^{.667} * 0.5)$
Paved Surface:
 $V = 20.3282 * (S^{.667} * 0.5)$

Where:
 $(Lf / V) / 3600$
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = $(0.007 * ((n * Lf)^{.667} * 0.8)) / ((P^{.667} * 0.5) * (S^{.667} * 0.4))$
Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 24hr Rain depth, inches
Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA47 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.019 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.49 ft/s
Segment Time of Concentration	0.019 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	189.00 ft
Is Paved?	True
Slope	0.014 ft/ft
Average Velocity	2.41 ft/s
Segment Time of Concentration	0.022 hours
Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	211.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.018 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.059 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA47 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc =
$$R = Qa / Wp$$
$$V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$$

$$(Lf / V) / 3600$$

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (Sf**0.5)$
Paved Surface:
 $V = 20.3282 * (Sf**0.5)$

Where:
 $(Lf / V) / 3600$
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc =
$$(0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))$$

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 24hr Rain depth, inches
Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA47- Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.240
Slope	0.024 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.14 ft/s
Segment Time of Concentration	0.200 hours

Segment #2: TR-55 Shallow Concentrated Flow

Hydraulic Length	189.00 ft
Is Paved?	True
Slope	0.014 ft/ft
Average Velocity	2.44 ft/s
Segment Time of Concentration	0.022 hours

Segment #3: TR-55 Channel Flow

Flow Area	1.2 ft²
Hydraulic Length	211.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.23 ft/s
Segment Time of Concentration	0.018 hours

Time of Concentration (Composite)

Time of Concentration (Composite)	0.240 hours
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Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA47- Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc =
$$R = Qa / Wp$$
$$V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$$

$$(Lf / V) / 3600$$

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
$$V = 16.1345 * (Sf**0.5)$$

Paved Surface:
$$V = 20.3282 * (Sf**0.5)$$

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc =
$$(0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))$$

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 24hr Rain depth, inches
Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA48 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	25.00 ft
Manning's n	0.240
Slope	0.030 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.11 ft/s
Segment Time of Concentration	0.060 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	117.00 ft
Is Paved?	True
Slope	0.015 ft/ft
Average Velocity	2.49 ft/s
Segment Time of Concentration	0.013 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.073 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA48 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$

 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (Sf**0.5)$

Paved Surface:
 $V = 20.3282 * (Sf**0.5)$

 $(Lf / V) / 3600$
Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA48 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	25.00 ft
Manning's n	0.240
Slope	0.030 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.11 ft/s
Segment Time of Concentration	0.060 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	117.00 ft
Is Paved?	True
Slope	0.015 ft/ft
Average Velocity	2.49 ft/s
Segment Time of Concentration	0.013 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.073 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA48 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc =
$$R = Qa / Wp$$
$$V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$$

$$(Lf / V) / 3600$$

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
$$V = 16.1345 * (Sf**0.5)$$

Unpaved surface:
$$V = 20.3282 * (Sf**0.5)$$

Paved Surface:
$$V = 20.3282 * (Sf**0.5)$$

$$(Lf / V) / 3600$$

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA49 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.013 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.28 ft/s
Segment Time of Concentration	0.022 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	175.00 ft
Is Paved?	True
Slope	0.013 ft/ft
Average Velocity	2.32 ft/s
Segment Time of Concentration	0.021 hours
Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	27.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.002 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.045 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA49 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$
 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (Sf**0.5)$
Paved Surface:
 $V = 20.3282 * (Sf**0.5)$

Where:
 $(Lf / V) / 3600$
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = $(0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))$
Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 24hr Rain depth, inches
Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA49 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.013 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.28 ft/s
Segment Time of Concentration	0.022 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	175.00 ft
Is Paved?	True
Slope	0.013 ft/ft
Average Velocity	2.32 ft/s
Segment Time of Concentration	0.021 hours
Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	27.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.002 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.045 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA49 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$
 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (Sf**0.5)$
Paved Surface:
 $V = 20.3282 * (Sf**0.5)$

Where:
 $(Lf / V) / 3600$
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

SCS TR-55 Sheet Flow

Tc = $(0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))$
Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 24hr Rain depth, inches
Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA5 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results	
Segment #1: TR-55 Sheet Flow	
Hydraulic Length	30.00 ft
Manning's n	0.011
Slope	0.033 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.46 ft/s
Segment Time of Concentration	0.006 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	147.00 ft
Is Paved?	True
Slope	0.040 ft/ft
Average Velocity	4.07 ft/s
Segment Time of Concentration	0.010 hours
Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	25.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.002 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.020 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA5 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R^{.48} * (2/3)) * (S^{.48} * 0.5)) / n$
 $(Lf / V) / 3600$

Where:

R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =

Unpaved surface:
 $V = 16.1345 * (S^{.48} * 0.5)$

Paved Surface:
 $V = 20.3282 * (S^{.48} * 0.5)$

Where:

$(Lf / V) / 3600$
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = $(0.007 * ((n * Lf)^{.48} * 0.8)) / ((P^{.48} * 0.5) * (S^{.48} * 0.4))$

Where:

Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 24hr Rain depth, inches
Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA5 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	30.00 ft
Manning's n	0.011
Slope	0.033 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.46 ft/s
Segment Time of Concentration	0.006 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	147.00 ft
Is Paved?	True
Slope	0.040 ft/ft
Average Velocity	4.07 ft/s
Segment Time of Concentration	0.010 hours
Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	25.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.002 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.020 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA5 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$
 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (Sf**0.5)$
Paved Surface:
 $V = 20.3282 * (Sf**0.5)$

Where:
 $(Lf / V) / 3600$
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = $(0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))$
Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 24hr Rain depth, inches
Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA50 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results	
Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.040 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	2.00 ft/s
Segment Time of Concentration	0.014 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	121.00 ft
Is Paved?	True
Slope	0.024 ft/ft
Average Velocity	3.15 ft/s
Segment Time of Concentration	0.011 hours
Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	140.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.012 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.037 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA50 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R^{0.49} * (S^{0.49} * (2/3))) * (S^{0.49} * 0.5)) / n$
 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (S^{0.49} * 0.5)$
Paved Surface:
 $V = 20.3282 * (S^{0.49} * 0.5)$

Where:
 $(Lf / V) / 3600$
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

SCS TR-55 Sheet Flow

Tc = $(0.007 * ((n * Lf)^{0.8})) / ((P^{0.5} * 0.5) * (S^{0.49} * 0.4))$
Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 24hr Rain depth, inches
Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA50 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	42.00 ft
Manning's n	0.240
Slope	0.024 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.12 ft/s
Segment Time of Concentration	0.100 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	131.00 ft
Is Paved?	True
Slope	0.025 ft/ft
Average Velocity	3.21 ft/s
Segment Time of Concentration	0.011 hours
Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	140.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.012 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.124 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA50 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$
 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (Sf**0.5)$
Paved Surface:
 $V = 20.3282 * (Sf**0.5)$

Where:
 $(Lf / V) / 3600$
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = $(0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))$
Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 24hr Rain depth, inches
Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA51 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.010 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.15 ft/s
Segment Time of Concentration	0.024 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	198.00 ft
Is Paved?	True
Slope	0.010 ft/ft
Average Velocity	2.03 ft/s
Segment Time of Concentration	0.027 hours
Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	45.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.004 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.055 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA51 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc =
 $R = Qa / Wp$
 $V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$
 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (Sf**0.5)$
Paved Surface:
 $V = 20.3282 * (Sf**0.5)$

Where:
 $(Lf / V) / 3600$
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc =
 $(0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))$
Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 24hr Rain depth, inches
Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA51 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	63.00 ft
Manning's n	0.240
Slope	0.050 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.17 ft/s
Segment Time of Concentration	0.103 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	206.00 ft
Is Paved?	True
Slope	0.010 ft/ft
Average Velocity	2.03 ft/s
Segment Time of Concentration	0.028 hours
Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	45.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.004 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.135 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA51 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$

 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (Sf**0.5)$
Paved Surface:
 $V = 20.3282 * (Sf**0.5)$

Where:
 $(Lf / V) / 3600$
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = $(0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))$
Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 24hr Rain depth, inches
Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA52 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.028 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.74 ft/s
Segment Time of Concentration	0.016 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	48.00 ft
Is Paved?	True
Slope	0.028 ft/ft
Average Velocity	3.40 ft/s
Segment Time of Concentration	0.004 hours
Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	156.00 ft
Manning's n	0.015
Slope	0.008 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.92 ft/s
Segment Time of Concentration	0.011 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.031 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA52 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc =
$$R = Qa / Wp$$
$$V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$$

$$(Lf / V) / 3600$$

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (Sf**0.5)$
Paved Surface:
 $V = 20.3282 * (Sf**0.5)$

Where:
 $(Lf / V) / 3600$
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc =
$$(0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))$$

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 24hr Rain depth, inches
Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA52 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	36.00 ft
Manning's n	0.240
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.11 ft/s
Segment Time of Concentration	0.095 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	132.00 ft
Is Paved?	True
Slope	0.030 ft/ft
Average Velocity	3.52 ft/s
Segment Time of Concentration	0.010 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	156.00 ft
Manning's n	0.015
Slope	0.008 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.92 ft/s
Segment Time of Concentration	0.011 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.117 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA52 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R^{0.49} * (S^{0.49} * (2/3))) * (S^{0.49} * 0.5))) / n$
 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (Sf^{0.5})$
Paved Surface:
 $V = 20.3282 * (Sf^{0.5})$

Where:
 $(Lf / V) / 3600$
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = $(0.007 * ((n * Lf)^{0.8})) / ((P^{0.5}) * (Sf^{0.4}))$
Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 24hr Rain depth, inches
Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA53 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.030 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.79 ft/s
Segment Time of Concentration	0.016 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	55.00 ft
Is Paved?	True
Slope	0.030 ft/ft
Average Velocity	3.52 ft/s
Segment Time of Concentration	0.004 hours
Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	118.00 ft
Manning's n	0.015
Slope	0.004 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	2.86 ft/s
Segment Time of Concentration	0.011 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.031 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA53 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R^{.48} * (2/3)) * (S^{.48} * 0.5)) / n$
 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (S^{.48} * 0.5)$
Paved Surface:
 $V = 20.3282 * (S^{.48} * 0.5)$

Where:
 $(Lf / V) / 3600$
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

SCS TR-55 Sheet Flow

Tc = $(0.007 * ((n * Lf)^{.48} * 0.8)) / ((P^{.48} * 0.5) * (S^{.48} * 0.4))$
Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 24hr Rain depth, inches
Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA53 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	35.00 ft
Manning's n	0.240
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.10 ft/s
Segment Time of Concentration	0.093 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	130.00 ft
Is Paved?	True
Slope	0.030 ft/ft
Average Velocity	3.52 ft/s
Segment Time of Concentration	0.010 hours
Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	118.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.010 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.114 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA53 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$
 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (Sf**0.5)$
Paved Surface:
 $V = 20.3282 * (Sf**0.5)$

Where:
 $(Lf / V) / 3600$
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = $(0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))$
Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 24hr Rain depth, inches
Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA54 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.015 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.35 ft/s
Segment Time of Concentration	0.021 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	122.00 ft
Is Paved?	True
Slope	0.015 ft/ft
Average Velocity	2.49 ft/s
Segment Time of Concentration	0.014 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.034 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA54 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc =
$$R = Qa / Wp$$
$$V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$$
$$(Lf / V) / 3600$$

Where:

R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =

Unpaved surface:
 $V = 16.1345 * (Sf**0.5)$

Paved Surface:
 $V = 20.3282 * (Sf**0.5)$

Where:

$(Lf / V) / 3600$
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA54 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.015 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.35 ft/s
Segment Time of Concentration	0.021 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	122.00 ft
Is Paved?	True
Slope	0.015 ft/ft
Average Velocity	2.49 ft/s
Segment Time of Concentration	0.014 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.034 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA54 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$

 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (Sf**0.5)$
Paved Surface:
 $V = 20.3282 * (Sf**0.5)$

Where:
 $(Lf / V) / 3600$
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA55 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	30.00 ft
Manning's n	0.011
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.19 ft/s
Segment Time of Concentration	0.007 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	73.00 ft
Is Paved?	True
Slope	0.020 ft/ft
Average Velocity	2.87 ft/s
Segment Time of Concentration	0.007 hours
Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	123.00 ft
Manning's n	0.015
Slope	0.020 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	6.40 ft/s
Segment Time of Concentration	0.005 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.020 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA55 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R^{.48} * (2/3)) * (S^{.48} * 0.5)) / n$
 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (S^{.48} * 0.5)$
Paved Surface:
 $V = 20.3282 * (S^{.48} * 0.5)$

Where:
 $(Lf / V) / 3600$
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

SCS TR-55 Sheet Flow

Tc = $(0.007 * ((n * Lf)^{.48} * 0.8)) / ((P^{.48} * 0.5) * (S^{.48} * 0.4))$
Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 24hr Rain depth, inches
Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations

Label: DA55 Perv

Scenario: 100YR Projected

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	30.00 ft
Manning's n	0.240
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.10 ft/s
Segment Time of Concentration	0.082 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	73.00 ft
Is Paved?	True
Slope	0.020 ft/ft
Average Velocity	2.87 ft/s
Segment Time of Concentration	0.007 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	123.00 ft
Manning's n	0.015
Slope	0.020 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	6.40 ft/s
Segment Time of Concentration	0.005 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.095 hours

Return Event: 100 years

Storm Event: 100yr Projected NOAA D

Projected Post Dev Tc

Subsection: Time of Concentration Calculations

Label: DA55 Perv

Scenario: 100YR Projected

Time of Concentration Results

Segment #1: SCS Channel Flow	
Tc =	$R = Qa / Wp$ $V = (1.49 * (R^{.48} * (2/3)) * (S^{.48} * 0.5)) / n$ $(Lf / V) / 3600$
Where:	R= Hydraulic radius Aq= Flow area, square feet Wp= Wetted perimeter, feet V= Velocity, ft/sec Sf= Slope, ft/ft n= Manning's n Tc= Time of concentration, hours Lf= Flow length, feet

SCS TR-55 Shallow Concentration Flow

Tc =	Unpaved surface: $V = 16.1345 * (S^{.48} * 0.5)$ Paved Surface: $V = 20.3282 * (S^{.48} * 0.5)$
Where:	$(Lf / V) / 3600$ V= Velocity, ft/sec Sf= Slope, ft/ft Tc= Time of concentration, hours Lf= Flow length, feet

SCS TR-55 Sheet Flow

Tc =	$(0.007 * ((n * Lf)^{.48} * 0.8)) / ((P^{.48} * 0.5) * (S^{.48} * 0.4))$
Where:	Tc= Time of concentration, hours n= Manning's n Lf= Flow length, feet P= 2yr, 24hr Rain depth, inches Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA56 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	10.00 ft
Manning's n	0.011
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.96 ft/s
Segment Time of Concentration	0.003 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	181.00 ft
Is Paved?	True
Slope	0.010 ft/ft
Average Velocity	2.03 ft/s
Segment Time of Concentration	0.025 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	10.00 ft
Manning's n	0.015
Slope	0.006 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.51 ft/s
Segment Time of Concentration	0.001 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.028 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA56 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc =
$$R = Qa / Wp$$
$$V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$$

$$(Lf / V) / 3600$$

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
$$V = 16.1345 * (Sf**0.5)$$

Paved Surface:
$$V = 20.3282 * (Sf**0.5)$$

Where:
$$(Lf / V) / 3600$$

V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc =
Where:
$$(0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))$$

Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 24hr Rain depth, inches
Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA56 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	10.00 ft
Manning's n	0.240
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.08 ft/s
Segment Time of Concentration	0.034 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	181.00 ft
Is Paved?	True
Slope	0.010 ft/ft
Average Velocity	2.03 ft/s
Segment Time of Concentration	0.025 hours
Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	10.00 ft
Manning's n	0.015
Slope	0.006 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.51 ft/s
Segment Time of Concentration	0.001 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.060 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA56 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R^{0.49} * (S^{0.49} * (2/3))) * (S^{0.49} * 0.5))) / n$
 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (Sf^{0.5})$
Paved Surface:
 $V = 20.3282 * (Sf^{0.5})$

Where:
 $(Lf / V) / 3600$
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = $(0.007 * ((n * Lf)^{0.8})) / ((P^{0.5}) * (Sf^{0.4}))$
Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 24hr Rain depth, inches
Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA57 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	47.00 ft
Manning's n	0.011
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.31 ft/s
Segment Time of Concentration	0.010 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	63.00 ft
Is Paved?	True
Slope	0.023 ft/ft
Average Velocity	3.08 ft/s
Segment Time of Concentration	0.006 hours
Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	10.00 ft
Manning's n	0.015
Slope	0.006 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.51 ft/s
Segment Time of Concentration	0.001 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.020 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA57 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$
 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (Sf**0.5)$
Paved Surface:
 $V = 20.3282 * (Sf**0.5)$

Where:
 $(Lf / V) / 3600$
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = $(0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))$
Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 24hr Rain depth, inches
Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA57 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	47.00 ft
Manning's n	0.011
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.31 ft/s
Segment Time of Concentration	0.010 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	63.00 ft
Is Paved?	True
Slope	0.023 ft/ft
Average Velocity	3.08 ft/s
Segment Time of Concentration	0.006 hours
Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	10.00 ft
Manning's n	0.015
Slope	0.006 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.51 ft/s
Segment Time of Concentration	0.001 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.020 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA57 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$
 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (Sf**0.5)$
Paved Surface:
 $V = 20.3282 * (Sf**0.5)$

Where:
 $(Lf / V) / 3600$
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = $(0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))$
Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 24hr Rain depth, inches
Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA58 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.52 ft/s
Segment Time of Concentration	0.018 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	80.00 ft
Is Paved?	True
Slope	0.017 ft/ft
Average Velocity	2.65 ft/s
Segment Time of Concentration	0.008 hours
Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	241.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.021 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.048 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA58 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R^{.48} * (2/3)) * (S^{.48} * 0.5)) / n$
 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (S^{.48} * 0.5)$
Paved Surface:
 $V = 20.3282 * (S^{.48} * 0.5)$

Where:
 $(Lf / V) / 3600$
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = $(0.007 * ((n * Lf)^{.48} * 0.8)) / ((P^{.48} * 0.5) * (S^{.48} * 0.4))$
Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 24hr Rain depth, inches
Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA58 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	80.00 ft
Manning's n	0.240
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.12 ft/s
Segment Time of Concentration	0.180 hours

Time of Concentration (Composite)

Time of Concentration (Composite)	0.180 hours
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Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA58 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc =
$$R = Qa / Wp$$
$$V = (1.49 * (R**(2/3)) * (S**(-0.5))) / n$$
$$(Lf / V) / 3600$$

Where:

R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
S= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA59 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.014 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.32 ft/s
Segment Time of Concentration	0.021 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	250.00 ft
Is Paved?	True
Slope	0.014 ft/ft
Average Velocity	2.41 ft/s
Segment Time of Concentration	0.029 hours
Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	55.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.005 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.055 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA59 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R^{0.49} * (2/3)) * (S^{0.49} * 0.5)) / n$
 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (S^{0.5})$
Paved Surface:
 $V = 20.3282 * (S^{0.5})$
 $(Lf / V) / 3600$

Where:

V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

SCS TR-55 Sheet Flow

Tc = $(0.007 * ((n * Lf)^{0.8})) / ((P^{0.5}) * (S^{0.49} * 0.4))$
Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 24hr Rain depth, inches
Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA59 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.240
Slope	0.010 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.10 ft/s
Segment Time of Concentration	0.284 hours

Time of Concentration (Composite)

Time of Concentration (Composite)	0.284 hours
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Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA59 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc =
$$R = Qa / Wp$$
$$V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$$
$$(Lf / V) / 3600$$

Where:

R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

Projected Post Dev Tc

Subsection: Time of Concentration Calculations

Label: DA6 Imp

Scenario: 100YR Projected

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	35.00 ft
Manning's n	0.240
Slope	0.050 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.15 ft/s
Segment Time of Concentration	0.064 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	68.00 ft
Is Paved?	True
Slope	0.045 ft/ft
Average Velocity	4.31 ft/s
Segment Time of Concentration	0.004 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	60.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.005 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.074 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations

Label: DA6 Imp

Scenario: 100YR Projected

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R^{.48} * (2/3)) * (S^{.48} * 0.5)) / n$
 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (S^{.48} * 0.5)$
Paved Surface:
 $V = 20.3282 * (S^{.48} * 0.5)$

Where:
 $(Lf / V) / 3600$
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = $(0.007 * ((n * Lf)^{.48} * 0.8)) / ((P^{.48} * 0.5) * (S^{.48} * 0.4))$
Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 24hr Rain depth, inches
Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations

Label: DA6 Perv

Scenario: 100YR Projected

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	35.00 ft
Manning's n	0.240
Slope	0.050 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.15 ft/s
Segment Time of Concentration	0.064 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	68.00 ft
Is Paved?	True
Slope	0.045 ft/ft
Average Velocity	4.31 ft/s
Segment Time of Concentration	0.004 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	60.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.005 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.074 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations

Label: DA6 Perv

Scenario: 100YR Projected

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R^{.66} * (2/3)) * (S^{.48} * 0.5)) / n$
 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (S^{.48} * 0.5)$
Paved Surface:
 $V = 20.3282 * (S^{.48} * 0.5)$

Where:
 $(Lf / V) / 3600$
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = $(0.007 * ((n * Lf)^{.48} * 0.8)) / ((P^{.48} * 0.5) * (S^{.48} * 0.4))$
Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 24hr Rain depth, inches
Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA60 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	47.00 ft
Manning's n	0.011
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.31 ft/s
Segment Time of Concentration	0.010 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	74.00 ft
Is Paved?	True
Slope	0.019 ft/ft
Average Velocity	2.80 ft/s
Segment Time of Concentration	0.007 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.020 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA60 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc =
$$R = Qa / Wp$$
$$V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$$

$$(Lf / V) / 3600$$

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
$$V = 16.1345 * (Sf**0.5)$$

Unpaved surface:
$$V = 20.3282 * (Sf**0.5)$$

Paved Surface:
$$(Lf / V) / 3600$$

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA60 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	47.00 ft
Manning's n	0.011
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.31 ft/s
Segment Time of Concentration	0.010 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	74.00 ft
Is Paved?	True
Slope	0.019 ft/ft
Average Velocity	2.80 ft/s
Segment Time of Concentration	0.007 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.020 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA60 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$

 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (Sf**0.5)$

Paved Surface:
 $V = 20.3282 * (Sf**0.5)$

 $(Lf / V) / 3600$
Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA61 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.023 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.61 ft/s
Segment Time of Concentration	0.017 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	128.00 ft
Is Paved?	True
Slope	0.018 ft/ft
Average Velocity	2.73 ft/s
Segment Time of Concentration	0.013 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.030 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA61 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$

 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (Sf**0.5)$

Paved Surface:
 $V = 20.3282 * (Sf**0.5)$

 $(Lf / V) / 3600$
Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA61 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.023 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.61 ft/s
Segment Time of Concentration	0.017 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	128.00 ft
Is Paved?	True
Slope	0.018 ft/ft
Average Velocity	2.73 ft/s
Segment Time of Concentration	0.013 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.030 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA61 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$

 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (Sf**0.5)$

Paved Surface:
 $V = 20.3282 * (Sf**0.5)$

 $(Lf / V) / 3600$
Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA62 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.037 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.94 ft/s
Segment Time of Concentration	0.014 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	109.00 ft
Is Paved?	True
Slope	0.026 ft/ft
Average Velocity	3.28 ft/s
Segment Time of Concentration	0.009 hours
Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	68.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.006 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.029 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA62 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$
 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (Sf**0.5)$
Paved Surface:
 $V = 20.3282 * (Sf**0.5)$

Where:
 $(Lf / V) / 3600$
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

SCS TR-55 Sheet Flow

Tc = $(0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))$
Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 24hr Rain depth, inches
Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA62 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.037 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.94 ft/s
Segment Time of Concentration	0.014 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	109.00 ft
Is Paved?	True
Slope	0.026 ft/ft
Average Velocity	3.28 ft/s
Segment Time of Concentration	0.009 hours
Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	68.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.006 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.029 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA62 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$
 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (Sf**0.5)$
Paved Surface:
 $V = 20.3282 * (Sf**0.5)$

Where:
 $(Lf / V) / 3600$
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = $(0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))$
Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 24hr Rain depth, inches
Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA63 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.013 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.26 ft/s
Segment Time of Concentration	0.022 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	115.00 ft
Is Paved?	True
Slope	0.036 ft/ft
Average Velocity	3.86 ft/s
Segment Time of Concentration	0.008 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.030 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA63 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc =
$$R = Qa / Wp$$
$$V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$$

$$(Lf / V) / 3600$$

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
$$V = 16.1345 * (Sf**0.5)$$

Unpaved surface:
$$V = 20.3282 * (Sf**0.5)$$

Paved Surface:
$$(Lf / V) / 3600$$

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA7 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.015 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.35 ft/s
Segment Time of Concentration	0.021 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	266.00 ft
Is Paved?	True
Slope	0.015 ft/ft
Average Velocity	2.49 ft/s
Segment Time of Concentration	0.030 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.050 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA7 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$

 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (Sf**0.5)$

Paved Surface:
 $V = 20.3282 * (Sf**0.5)$

 $(Lf / V) / 3600$
Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA7 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.015 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.35 ft/s
Segment Time of Concentration	0.021 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	266.00 ft
Is Paved?	True
Slope	0.015 ft/ft
Average Velocity	2.49 ft/s
Segment Time of Concentration	0.030 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.050 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA7 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$

 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (Sf**0.5)$
Paved Surface:
 $V = 20.3282 * (Sf**0.5)$

Where:
 $(Lf / V) / 3600$
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA9 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	22.00 ft
Manning's n	0.011
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.12 ft/s
Segment Time of Concentration	0.005 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	174.00 ft
Is Paved?	True
Slope	0.013 ft/ft
Average Velocity	2.32 ft/s
Segment Time of Concentration	0.021 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.026 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA9 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$

 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (Sf**0.5)$

Paved Surface:
 $V = 20.3282 * (Sf**0.5)$

 $(Lf / V) / 3600$
Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA9 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	33.00 ft
Manning's n	0.240
Slope	0.016 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.09 ft/s
Segment Time of Concentration	0.097 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	182.00 ft
Is Paved?	True
Slope	0.013 ft/ft
Average Velocity	2.27 ft/s
Segment Time of Concentration	0.022 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.119 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: DA9 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc =
$$R = Qa / Wp$$
$$V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$$

$$(Lf / V) / 3600$$

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
$$Unpaved surface:$$
$$V = 16.1345 * (Sf**0.5)$$

$$Paved Surface:$$
$$V = 20.3282 * (Sf**0.5)$$

Where:
$$(Lf / V) / 3600$$

V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: EDA3 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	70.00 ft
Manning's n	0.240
Slope	0.330 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.37 ft/s
Segment Time of Concentration	0.053 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	428.00 ft
Is Paved?	False
Slope	0.039 ft/ft
Average Velocity	3.19 ft/s
Segment Time of Concentration	0.037 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.090 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: EDA3 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc =
$$R = Qa / Wp$$
$$V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$$
$$(Lf / V) / 3600$$

Where:

R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =

Unpaved surface:
 $V = 16.1345 * (Sf**0.5)$

Paved Surface:
 $V = 20.3282 * (Sf**0.5)$

$$(Lf / V) / 3600$$

Where:

V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: Ex DA-6 Perv (S Brunswick)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.240
Slope	0.040 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.17 ft/s
Segment Time of Concentration	0.163 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	217.00 ft
Is Paved?	False
Slope	0.050 ft/ft
Average Velocity	3.61 ft/s
Segment Time of Concentration	0.017 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.180 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: Ex DA-6 Perv (S Brunswick)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc = $R = Qa / Wp$
 $V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$

 $(Lf / V) / 3600$
Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
 $V = 16.1345 * (Sf**0.5)$

Paved Surface:
 $V = 20.3282 * (Sf**0.5)$

 $(Lf / V) / 3600$
Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: Future Imp Road-Basin 6 (S Brunswick)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results	
Segment #1: TR-55 Sheet Flow	
Hydraulic Length	50.00 ft
Manning's n	0.011
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.32 ft/s
Segment Time of Concentration	0.011 hours
Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	225.00 ft
Is Paved?	False
Slope	0.050 ft/ft
Average Velocity	3.61 ft/s
Segment Time of Concentration	0.017 hours
Time of Concentration (Composite)	
Time of Concentration (Composite)	0.028 hours

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: Future Imp Road-Basin 6 (S Brunswick)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc =
$$R = Qa / Wp$$
$$V = (1.49 * (R**(2/3)) * (Sf**0.5)) / n$$

Where:
$$(Lf / V) / 3600$$

R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =

Unpaved surface:
$$V = 16.1345 * (Sf**0.5)$$

Paved Surface:
$$V = 20.3282 * (Sf**0.5)$$

$$(Lf / V) / 3600$$

V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: PDA-6 Imp (Plainsboro)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.52 ft/s
Segment Time of Concentration	0.018 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	553.00 ft
Is Paved?	True
Slope	0.020 ft/ft
Average Velocity	2.87 ft/s
Segment Time of Concentration	0.053 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft ²
Hydraulic Length	941.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.082 hours

Segment #4: TR-55 Channel Flow	
Flow Area	1.8 ft ²
Hydraulic Length	385.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	4.70 ft
Average Velocity	3.70 ft/s
Segment Time of Concentration	0.029 hours

Segment #5: TR-55 Channel Flow	
Flow Area	3.1 ft ²
Hydraulic Length	695.00 ft
Manning's n	0.015

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: PDA-6 Imp (Plainsboro)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Segment #5: TR-55 Channel Flow

Slope	0.005 ft/ft
Wetted Perimeter	6.30 ft
Average Velocity	4.38 ft/s
Segment Time of Concentration	0.044 hours

Segment #6: TR-55 Channel Flow

Flow Area	7.1 ft ²
Hydraulic Length	490.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	9.40 ft
Average Velocity	5.83 ft/s
Segment Time of Concentration	0.023 hours

Time of Concentration (Composite)

Time of Concentration (Composite)	0.250 hours
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Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: PDA-6 Imp (Plainsboro)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc =
$$R = Qa / Wp$$
$$V = (1.49 * (R^{.48} * (2/3)) * (S^{.48} * 0.5)) / n$$

$$(Lf / V) / 3600$$

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
$$V = 16.1345 * (S^{.48} * 0.5)$$

Paved Surface:
$$V = 20.3282 * (S^{.48} * 0.5)$$

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc =
$$(0.007 * ((n * Lf)^{.48} * 0.8)) / ((P^{.48} * 0.5) * (S^{.48} * 0.4))$$

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: PDA8 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.010 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.15 ft/s
Segment Time of Concentration	0.024 hours

Time of Concentration (Composite)

Time of Concentration (Composite)	0.024 hours
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Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: PDA8 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc =
$$R = Qa / Wp$$
$$V = (1.49 * (R^{.66} * (2/3))) * (S^{.66} * 0.5)) / n$$

Where:

$$(Lf / V) / 3600$$

R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
S= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: PDA8 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	10.00 ft
Manning's n	0.240
Slope	0.300 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.24 ft/s
Segment Time of Concentration	0.012 hours

Time of Concentration (Composite)

Time of Concentration (Composite)	0.020 hours
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Projected Post Dev Tc

Subsection: Time of Concentration Calculations
Label: PDA8 Perv
Scenario: 100YR Projected
Return Event: 100 years
Storm Event: 100yr Projected NOAA D

==== SCS Channel Flow

Tc =
$$R = Qa / Wp$$
$$V = (1.49 * (R**(2/3)) * (Sf**(0.5))) / n$$

Where:

- R= Hydraulic radius
- Aq= Flow area, square feet
- Wp= Wetted perimeter, feet
- V= Velocity, ft/sec
- Sf= Slope, ft/ft
- n= Manning's n
- Tc= Time of concentration, hours
- L= Flow length, feet

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA1 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.043 hours
Area (User Defined)	0.540 acres

Computational Time Increment	0.006 hours
Time to Peak (Computed)	12.096 hours
Flow (Peak, Computed)	2.17 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	2.17 ft ³ /s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.540 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.6 in
Runoff Volume (Pervious)	0.160 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.160 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.043 hours
Computational Time Increment	0.006 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA1 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	14.12 ft ³ /s
Unit peak time, Tp	0.029 hours
Unit receding limb, Tr	0.116 hours
Total unit time, Tb	0.144 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA1 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.043 hours	
Area (User Defined)	0.540 acres	

Computational Time	
Increment	0.006 hours
Time to Peak (Computed)	12.096 hours
Flow (Peak, Computed)	3.48 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	3.47 ft ³ /s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.540 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.8 in
Runoff Volume (Pervious)	0.263 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.263 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.043 hours
Computational Time Increment	0.006 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA1 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	14.12 ft ³ /s
Unit peak time, Tp	0.029 hours
Unit receding limb, Tr	0.116 hours
Total unit time, Tb	0.144 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA1 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.043 hours
Area (User Defined)	0.540 acres

Computational Time Increment	0.006 hours
Time to Peak (Computed)	12.096 hours
Flow (Peak, Computed)	6.47 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	6.47 ft ³ /s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.540 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.1 in
Runoff Volume (Pervious)	0.500 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.500 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.043 hours
Computational Time Increment	0.006 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA1 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	14.12 ft ³ /s
Unit peak time, Tp	0.029 hours
Unit receding limb, Tr	0.116 hours
Total unit time, Tb	0.144 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA1 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.043 hours
Area (User Defined)	0.840 acres

Computational Time Increment	0.006 hours
Time to Peak (Computed)	12.102 hours
Flow (Peak, Computed)	1.11 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	1.10 ft ³ /s

Drainage Area	
SCS CN (Composite)	66.000
Area (User Defined)	0.840 acres
Maximum Retention (Pervious)	5.2 in
Maximum Retention (Pervious, 20 percent)	1.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	0.072 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.072 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.043 hours
Computational Time Increment	0.006 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA1 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	21.96 ft ³ /s
Unit peak time, Tp	0.029 hours
Unit receding limb, Tr	0.116 hours
Total unit time, Tb	0.144 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA1 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	
10yr Projected NOAA D	
Return Event	10 years
Duration	48,000 hours
Depth	6.2 in
Time of Concentration (Composite)	0.043 hours
Area (User Defined)	0.840 acres

Computational Time	
Increment	0.006 hours
Time to Peak (Computed)	12.102 hours
Flow (Peak, Computed)	2.89 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	2.88 ft³/s

Drainage Area	
SCS CN (Composite)	66.000
Area (User Defined)	0.840 acres
Maximum Retention (Pervious)	5.2 in
Maximum Retention (Pervious, 20 percent)	1.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.6 in
Runoff Volume (Pervious)	0.181 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.181 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.043 hours
Computational Time Increment	0.006 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA1 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	21.96 ft³/s
Unit peak time, Tp	0.029 hours
Unit receding limb, Tr	0.116 hours
Total unit time, Tb	0.144 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA1 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.043 hours
Area (User Defined)	0.840 acres

Computational Time Increment	0.006 hours
Time to Peak (Computed)	12.102 hours
Flow (Peak, Computed)	7.61 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	7.60 ft³/s

Drainage Area	
SCS CN (Composite)	66.000
Area (User Defined)	0.840 acres
Maximum Retention (Pervious)	5.2 in
Maximum Retention (Pervious, 20 percent)	1.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	7.0 in
Runoff Volume (Pervious)	0.489 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.489 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.043 hours
Computational Time Increment	0.006 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA1 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	21.96 ft³/s
Unit peak time, Tp	0.029 hours
Unit receding limb, Tr	0.116 hours
Total unit time, Tb	0.144 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA1 Perv Basin
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.070 hours
Area (User Defined)	0.270 acres

Computational Time Increment	0.009 hours
Time to Peak (Computed)	12.112 hours
Flow (Peak, Computed)	0.36 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.35 ft³/s

Drainage Area	
SCS CN (Composite)	67.000
Area (User Defined)	0.270 acres
Maximum Retention (Pervious)	4.9 in
Maximum Retention (Pervious, 20 percent)	1.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.1 in
Runoff Volume (Pervious)	0.024 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.024 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.070 hours
Computational Time Increment	0.009 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA1 Perv Basin
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	4.36 ft³/s
Unit peak time, Tp	0.047 hours
Unit receding limb, Tr	0.187 hours
Total unit time, Tb	0.234 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA1 Perv Basin
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	
10yr Projected NOAA D	
Return Event	10 years
Duration	48,000 hours
Depth	6.2 in
Time of Concentration (Composite)	0.070 hours
Area (User Defined)	0.270 acres

Computational Time Increment	0.009 hours
Time to Peak (Computed)	12.112 hours
Flow (Peak, Computed)	0.91 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.90 ft³/s

Drainage Area	
SCS CN (Composite)	67.000
Area (User Defined)	0.270 acres
Maximum Retention (Pervious)	4.9 in
Maximum Retention (Pervious, 20 percent)	1.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.7 in
Runoff Volume (Pervious)	0.060 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.060 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.070 hours
Computational Time Increment	0.009 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA1 Perv Basin
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, T _r /T _p	1.670
Unit peak, q _p	4.36 ft³/s
Unit peak time, T _p	0.047 hours
Unit receding limb, T _r	0.187 hours
Total unit time, T _b	0.234 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA1 Perv Basin
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event		100yr Projected NOAA D
Return Event		100 years
Duration		48,000 hours
Depth		11.5 in
Time of Concentration (Composite)		0.070 hours
Area (User Defined)		0.270 acres

Computational Time	
Increment	0.009 hours
Time to Peak (Computed)	12.112 hours
Flow (Peak, Computed)	2.39 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	2.38 ft ³ /s

Drainage Area	
SCS CN (Composite)	67.000
Area (User Defined)	0.270 acres
Maximum Retention (Pervious)	4.9 in
Maximum Retention (Pervious, 20 percent)	1.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	7.1 in
Runoff Volume (Pervious)	0.161 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.160 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.070 hours
Computational Time Increment	0.009 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA1 Perv Basin
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	4.36 ft ³ /s
Unit peak time, Tp	0.047 hours
Unit receding limb, Tr	0.187 hours
Total unit time, Tb	0.234 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA10 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.033 hours
Area (User Defined)	0.790 acres

Computational Time Increment	0.004 hours
Time to Peak (Computed)	12.100 hours
Flow (Peak, Computed)	3.22 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	3.22 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.790 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.7 in
Runoff Volume (Pervious)	0.241 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.241 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.033 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA10 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	26.80 ft³/s
Unit peak time, Tp	0.022 hours
Unit receding limb, Tr	0.089 hours
Total unit time, Tb	0.111 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA10 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.033 hours	
Area (User Defined)	0.790 acres	

Computational Time	
Increment	0.004 hours
Time to Peak (Computed)	12.100 hours
Flow (Peak, Computed)	5.13 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	5.13 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.790 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.0 in
Runoff Volume (Pervious)	0.392 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.392 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.033 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA10 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	26.80 ft³/s
Unit peak time, Tp	0.022 hours
Unit receding limb, Tr	0.089 hours
Total unit time, Tb	0.111 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA10 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.033 hours
Area (User Defined)	0.790 acres

Computational Time Increment	0.004 hours
Time to Peak (Computed)	12.100 hours
Flow (Peak, Computed)	9.52 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	9.52 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.790 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.2 in
Runoff Volume (Pervious)	0.739 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.739 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.033 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA10 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	26.80 ft³/s
Unit peak time, Tp	0.022 hours
Unit receding limb, Tr	0.089 hours
Total unit time, Tb	0.111 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA10 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.033 hours
Area (User Defined)	0.240 acres

Computational Time Increment	0.004 hours
Time to Peak (Computed)	12.104 hours
Flow (Peak, Computed)	0.23 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.23 ft ³ /s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.240 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	0.015 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.015 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.033 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA10 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	8.14 ft ³ /s
Unit peak time, Tp	0.022 hours
Unit receding limb, Tr	0.089 hours
Total unit time, Tb	0.111 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA10 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.033 hours	
Area (User Defined)	0.240 acres	

Computational Time	
Increment	0.004 hours
Time to Peak (Computed)	12.100 hours
Flow (Peak, Computed)	0.69 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.69 ft ³ /s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.240 acres
Maximum Retention (Previous)	6.4 in
Maximum Retention (Previous, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Previous)	2.1 in
Runoff Volume (Previous)	0.043 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.043 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.033 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA10 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, T _r /T _p	1.670
Unit peak, q _p	8.14 ft ³ /s
Unit peak time, T _p	0.022 hours
Unit receding limb, T _r	0.089 hours
Total unit time, T _b	0.111 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA10 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.033 hours
Area (User Defined)	0.240 acres

Computational Time	
Increment	0.004 hours
Time to Peak (Computed)	12.100 hours
Flow (Peak, Computed)	2.00 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	2.00 ft ³ /s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.240 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	0.125 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.125 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.033 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA10 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	8.14 ft ³ /s
Unit peak time, Tp	0.022 hours
Unit receding limb, Tr	0.089 hours
Total unit time, Tb	0.111 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA11 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event		2yr Projected NOAA D
Return Event	2 years	
Duration	48,000 hours	
Depth	3.9 in	
Time of Concentration (Composite)	0.051 hours	
Area (User Defined)	0.610 acres	

Computational Time		0.007 hours
Increment	12.101 hours	
Time to Peak (Computed)	2.41 ft³/s	
Flow (Peak, Computed)	0.050 hours	
Output Increment	12.100 hours	
Time to Flow (Peak Interpolated Output)	2.40 ft³/s	
Flow (Peak Interpolated Output)		

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.610 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.4 in
Runoff Volume (Pervious)	0.175 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.175 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.051 hours
Computational Time Increment	0.007 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA11 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	13.51 ft³/s
Unit peak time, Tp	0.034 hours
Unit receding limb, Tr	0.136 hours
Total unit time, Tb	0.171 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA11 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.051 hours	
Area (User Defined)	0.610 acres	

Computational Time	
Increment	0.007 hours
Time to Peak (Computed)	12.101 hours
Flow (Peak, Computed)	3.88 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	3.88 ft ³ /s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.610 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.7 in
Runoff Volume (Pervious)	0.291 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.291 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.051 hours
Computational Time Increment	0.007 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA11 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, T _r /T _p	1.670
Unit peak, q _p	13.51 ft ³ /s
Unit peak time, T _p	0.034 hours
Unit receding limb, T _r	0.136 hours
Total unit time, T _b	0.171 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA11 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.051 hours
Area (User Defined)	0.610 acres

Computational Time Increment	0.007 hours
Time to Peak (Computed)	12.101 hours
Flow (Peak, Computed)	7.26 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	7.25 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.610 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.0 in
Runoff Volume (Pervious)	0.558 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.558 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.051 hours
Computational Time Increment	0.007 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA11 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	13.51 ft³/s
Unit peak time, Tp	0.034 hours
Unit receding limb, Tr	0.136 hours
Total unit time, Tb	0.171 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA11 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.051 hours
Area (User Defined)	0.180 acres

Computational Time Increment	0.007 hours
Time to Peak (Computed)	12.108 hours
Flow (Peak, Computed)	0.16 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.16 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.180 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	0.011 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.011 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.051 hours
Computational Time Increment	0.007 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA11 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.99 ft³/s
Unit peak time, Tp	0.034 hours
Unit receding limb, Tr	0.136 hours
Total unit time, Tb	0.171 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA11 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.051 hours	
Area (User Defined)	0.180 acres	

Computational Time		0.007 hours
Increment	12.108 hours	
Time to Peak (Computed)	0.50 ft³/s	
Flow (Peak, Computed)	0.050 hours	
Output Increment	12.100 hours	
Time to Flow (Peak Interpolated Output)	0.50 ft³/s	
Flow (Peak Interpolated Output)		

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.180 acres
Maximum Retention (Previous)	6.4 in
Maximum Retention (Previous, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Previous)	2.1 in
Runoff Volume (Previous)	0.032 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.032 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.051 hours
Computational Time Increment	0.007 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA11 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters		1.670
Receding/Rising, Tr/Tp	Unit peak, qp	3.99 ft³/s
Unit peak time, Tp	Unit receding limb, Tr	0.034 hours
Unit receding limb, Tr	Total unit time, Tb	0.136 hours
Total unit time, Tb		0.171 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA11 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.051 hours
Area (User Defined)	0.180 acres

Computational Time	
Increment	0.007 hours
Time to Peak (Computed)	12.101 hours
Flow (Peak, Computed)	1.47 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	1.46 ft ³ /s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.180 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	0.094 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.094 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.051 hours
Computational Time Increment	0.007 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA11 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.99 ft ³ /s
Unit peak time, Tp	0.034 hours
Unit receding limb, Tr	0.136 hours
Total unit time, Tb	0.171 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA12A Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event		2yr Projected NOAA D
Return Event	2 years	
Duration	48,000 hours	
Depth	3.9 in	
Time of Concentration (Composite)	0.072 hours	
Area (User Defined)	0.360 acres	

Computational Time	
Increment	0.010 hours
Time to Peak (Computed)	12.101 hours
Flow (Peak, Computed)	1.41 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	1.41 ft ³ /s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.360 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.7 in
Runoff Volume (Pervious)	0.110 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.110 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.072 hours
Computational Time Increment	0.010 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA12A Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	5.69 ft ³ /s
Unit peak time, Tp	0.048 hours
Unit receding limb, Tr	0.191 hours
Total unit time, Tb	0.239 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA12A Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	
10yr Projected NOAA D	
Return Event	10 years
Duration	48,000 hours
Depth	6.2 in
Time of Concentration (Composite)	0.072 hours
Area (User Defined)	0.360 acres

Computational Time	
Increment	0.010 hours
Time to Peak (Computed)	12.101 hours
Flow (Peak, Computed)	2.25 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	2.24 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.360 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.0 in
Runoff Volume (Pervious)	0.179 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.179 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.072 hours
Computational Time Increment	0.010 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA12A Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, T _r /T _p	1.670
Unit peak, q _p	5.69 ft³/s
Unit peak time, T _p	0.048 hours
Unit receding limb, T _r	0.191 hours
Total unit time, T _b	0.239 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA12A Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.072 hours
Area (User Defined)	0.360 acres

Computational Time Increment	0.010 hours
Time to Peak (Computed)	12.101 hours
Flow (Peak, Computed)	4.18 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	4.17 ft ³ /s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.360 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.2 in
Runoff Volume (Pervious)	0.337 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.337 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.072 hours
Computational Time Increment	0.010 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA12A Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	5.69 ft ³ /s
Unit peak time, Tp	0.048 hours
Unit receding limb, Tr	0.191 hours
Total unit time, Tb	0.239 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA12A Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.274 hours
Area (User Defined)	2.260 acres

Computational Time Increment	0.037 hours
Time to Peak (Computed)	12.255 hours
Flow (Peak, Computed)	1.26 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.250 hours
Flow (Peak Interpolated Output)	1.26 ft ³ /s

Drainage Area	
SCS CN (Composite)	62,000
Area (User Defined)	2.260 acres
Maximum Retention (Pervious)	6.1 in
Maximum Retention (Pervious, 20 percent)	1.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	0.153 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.153 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.274 hours
Computational Time Increment	0.037 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA12A Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	9.33 ft ³ /s
Unit peak time, Tp	0.183 hours
Unit receding limb, Tr	0.732 hours
Total unit time, Tb	0.915 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA12A Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.274 hours	
Area (User Defined)	2.260 acres	
Computational Time Increment	0.037 hours	
Time to Peak (Computed)	12.219 hours	
Flow (Peak, Computed)	4.03 ft³/s	
Output Increment	0.050 hours	
Time to Flow (Peak Interpolated Output)	12.250 hours	
Flow (Peak Interpolated Output)	3.95 ft³/s	
Drainage Area		
SCS CN (Composite)	62,000	
Area (User Defined)	2.260 acres	
Maximum Retention (Pervious)	6.1 in	
Maximum Retention (Pervious, 20 percent)	1.2 in	
Cumulative Runoff		
Cumulative Runoff Depth (Pervious)	2.2 in	
Runoff Volume (Pervious)	0.418 ac-ft	
Hydrograph Volume (Area under Hydrograph curve)		
Volume	0.418 ac-ft	
SCS Unit Hydrograph Parameters		
Time of Concentration (Composite)	0.274 hours	
Computational Time Increment	0.037 hours	
Unit Hydrograph Shape Factor	483.432	
K Factor	0.749	

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA12A Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters		1.670
Receding/Rising, Tr/Tp		
Unit peak, qp	9.33 ft³/s	
Unit peak time, Tp	0.183 hours	
Unit receding limb, Tr	0.732 hours	
Total unit time, Tb	0.915 hours	

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA12A Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event		100yr Projected NOAA D
Return Event	100 years	
Duration	48,000 hours	
Depth	11.5 in	
Time of Concentration (Composite)	0.274 hours	
Area (User Defined)	2.260 acres	

Computational Time		0.037 hours
Increment	12.219 hours	
Time to Peak (Computed)	12.00 ft ³ /s	
Flow (Peak, Computed)	0.050 hours	
Output Increment	12.200 hours	
Time to Flow (Peak Interpolated Output)	11.86 ft ³ /s	
Flow (Peak Interpolated Output)		

Drainage Area		
SCS CN (Composite)	62,000	
Area (User Defined)	2.260 acres	
Maximum Retention (Pervious)	6.1 in	
Maximum Retention (Pervious, 20 percent)	1.2 in	

Cumulative Runoff		
Cumulative Runoff Depth (Pervious)	6.4 in	
Runoff Volume (Pervious)	1.207 ac-ft	

Hydrograph Volume (Area under Hydrograph curve)		
Volume	1.207 ac-ft	

SCS Unit Hydrograph Parameters		
Time of Concentration (Composite)	0.274 hours	
Computational Time Increment	0.037 hours	
Unit Hydrograph Shape Factor	483.432	
K Factor	0.749	

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA12A Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters		
Receding/Rising, Tr/Tp	1.670	
Unit peak, qp	9.33 ft ³ /s	
Unit peak time, Tp	0.183 hours	
Unit receding limb, Tr	0.732 hours	
Total unit time, Tb	0.915 hours	

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA13 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event		2yr Projected NOAA D
Return Event	2 years	
Duration	48,000 hours	
Depth	3.9 in	
Time of Concentration (Composite)	0.028 hours	
Area (User Defined)	0.340 acres	

Computational Time		0.004 hours
Increment	12,098 hours	
Time to Peak (Computed)	1.34 ft³/s	
Flow (Peak, Computed)	0.050 hours	
Output Increment	12,100 hours	
Time to Flow (Peak Interpolated Output)	1.34 ft³/s	
Flow (Peak Interpolated Output)		

Drainage Area	
SCS CN (Composite)	95,000
Area (User Defined)	0.340 acres
Maximum Retention (Pervious)	0.5 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.3 in
Runoff Volume (Pervious)	0.094 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.094 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.028 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA13 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	13.88 ft³/s
Unit peak time, Tp	0.019 hours
Unit receding limb, Tr	0.074 hours
Total unit time, Tb	0.093 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA13 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.028 hours	
Area (User Defined)	0.340 acres	

Computational Time	
Increment	0.004 hours
Time to Peak (Computed)	12.098 hours
Flow (Peak, Computed)	2.17 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	2.17 ft ³ /s

Drainage Area	
SCS CN (Composite)	95.000
Area (User Defined)	0.340 acres
Maximum Retention (Pervious)	0.5 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.6 in
Runoff Volume (Pervious)	0.159 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.159 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.028 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA13 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, T _r /T _p	1.670
Unit peak, q _p	13.88 ft ³ /s
Unit peak time, T _p	0.019 hours
Unit receding limb, T _r	0.074 hours
Total unit time, T _b	0.093 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA13 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.028 hours
Area (User Defined)	0.340 acres

Computational Time Increment	0.004 hours
Time to Peak (Computed)	12.098 hours
Flow (Peak, Computed)	4.08 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	4.07 ft³/s

Drainage Area	
SCS CN (Composite)	95.000
Area (User Defined)	0.340 acres
Maximum Retention (Pervious)	0.5 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	10.9 in
Runoff Volume (Pervious)	0.308 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.308 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.028 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA13 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	13.88 ft³/s
Unit peak time, Tp	0.019 hours
Unit receding limb, Tr	0.074 hours
Total unit time, Tb	0.093 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA13 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.028 hours
Area (User Defined)	0.040 acres

Computational Time	
Increment	0.004 hours
Time to Peak (Computed)	12.102 hours
Flow (Peak, Computed)	0.04 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.04 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.040 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	0.003 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.003 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.028 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA13 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.63 ft³/s
Unit peak time, Tp	0.019 hours
Unit receding limb, Tr	0.074 hours
Total unit time, Tb	0.093 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA13 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.028 hours	
Area (User Defined)	0.040 acres	

Computational Time	
Increment	0.004 hours
Time to Peak (Computed)	12.102 hours
Flow (Peak, Computed)	0.12 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.12 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.040 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	0.007 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.007 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.028 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA13 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.63 ft³/s
Unit peak time, Tp	0.019 hours
Unit receding limb, Tr	0.074 hours
Total unit time, Tb	0.093 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA13 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.028 hours
Area (User Defined)	0.040 acres

Computational Time Increment	0.004 hours
Time to Peak (Computed)	12.098 hours
Flow (Peak, Computed)	0.33 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.33 ft ³ /s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.040 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	0.021 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.021 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.028 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA13 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.63 ft ³ /s
Unit peak time, Tp	0.019 hours
Unit receding limb, Tr	0.074 hours
Total unit time, Tb	0.093 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA14 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.034 hours
Area (User Defined)	0.330 acres

Computational Time Increment	0.005 hours
Time to Peak (Computed)	12.098 hours
Flow (Peak, Computed)	1.32 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	1.31 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.330 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.4 in
Runoff Volume (Pervious)	0.095 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.095 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.034 hours
Computational Time Increment	0.005 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA14 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	10.85 ft³/s
Unit peak time, Tp	0.023 hours
Unit receding limb, Tr	0.092 hours
Total unit time, Tb	0.115 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA14 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.034 hours	
Area (User Defined)	0.330 acres	

Computational Time	
Increment	0.005 hours
Time to Peak (Computed)	12.098 hours
Flow (Peak, Computed)	2.12 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	2.12 ft ³ /s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.330 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.7 in
Runoff Volume (Pervious)	0.157 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.157 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.034 hours
Computational Time Increment	0.005 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA14 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, T _r /T _p	1.670
Unit peak, q _p	10.85 ft ³ /s
Unit peak time, T _p	0.023 hours
Unit receding limb, T _r	0.092 hours
Total unit time, T _b	0.115 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA14 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.034 hours
Area (User Defined)	0.330 acres

Computational Time Increment	0.005 hours
Time to Peak (Computed)	12.098 hours
Flow (Peak, Computed)	3.97 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	3.96 ft ³ /s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.330 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.0 in
Runoff Volume (Pervious)	0.302 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.302 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.034 hours
Computational Time Increment	0.005 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA14 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	10.85 ft ³ /s
Unit peak time, Tp	0.023 hours
Unit receding limb, Tr	0.092 hours
Total unit time, Tb	0.115 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA14 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event		2yr Projected NOAA D
Return Event	2 years	
Duration	48,000 hours	
Depth	3.9 in	
Time of Concentration (Composite)	0.034 hours	
Area (User Defined)	0.070 acres	

Computational Time		0.005 hours
Increment	12.103 hours	
Time to Peak (Computed)	0.07 ft³/s	
Flow (Peak, Computed)	0.050 hours	
Output Increment	12.100 hours	
Time to Flow (Peak Interpolated Output)	0.07 ft³/s	
Flow (Peak Interpolated Output)		

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.070 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	0.004 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.004 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.034 hours
Computational Time Increment	0.005 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA14 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	2.30 ft³/s
Unit peak time, Tp	0.023 hours
Unit receding limb, Tr	0.092 hours
Total unit time, Tb	0.115 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA14 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.034 hours	
Area (User Defined)	0.070 acres	

Computational Time	
Increment	0.005 hours
Time to Peak (Computed)	12.103 hours
Flow (Peak, Computed)	0.20 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.20 ft ³ /s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.070 acres
Maximum Retention (Previous)	6.4 in
Maximum Retention (Previous, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Previous)	2.1 in
Runoff Volume (Previous)	0.012 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.012 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.034 hours
Computational Time Increment	0.005 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA14 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	2.30 ft ³ /s
Unit peak time, Tp	0.023 hours
Unit receding limb, Tr	0.092 hours
Total unit time, Tb	0.115 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA14 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.034 hours
Area (User Defined)	0.070 acres

Computational Time	
Increment	0.005 hours
Time to Peak (Computed)	12.098 hours
Flow (Peak, Computed)	0.58 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.58 ft ³ /s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.070 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	0.037 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.037 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.034 hours
Computational Time Increment	0.005 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA14 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	2.30 ft ³ /s
Unit peak time, Tp	0.023 hours
Unit receding limb, Tr	0.092 hours
Total unit time, Tb	0.115 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA15 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

2yr Projected NOAA D	
Storm Event	2 years
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.040 hours
Area (User Defined)	0.840 acres

Computational Time Increment	0.005 hours
Time to Peak (Computed)	12.098 hours
Flow (Peak, Computed)	3.41 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	3.41 ft ³ /s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.840 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.7 in
Runoff Volume (Pervious)	0.257 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.257 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.040 hours
Computational Time Increment	0.005 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA15 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	24.08 ft ³ /s
Unit peak time, Tp	0.026 hours
Unit receding limb, Tr	0.105 hours
Total unit time, Tb	0.132 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA15 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.040 hours	
Area (User Defined)	0.840 acres	

Computational Time	
Increment	0.005 hours
Time to Peak (Computed)	12.098 hours
Flow (Peak, Computed)	5.44 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	5.43 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.840 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.0 in
Runoff Volume (Pervious)	0.417 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.417 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.040 hours
Computational Time Increment	0.005 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA15 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	24.08 ft³/s
Unit peak time, Tp	0.026 hours
Unit receding limb, Tr	0.105 hours
Total unit time, Tb	0.132 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA15 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.040 hours
Area (User Defined)	0.840 acres

Computational Time Increment	0.005 hours
Time to Peak (Computed)	12.098 hours
Flow (Peak, Computed)	10.11 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	10.09 ft ³ /s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.840 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.2 in
Runoff Volume (Pervious)	0.786 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.786 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.040 hours
Computational Time Increment	0.005 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA15 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	24.08 ft ³ /s
Unit peak time, Tp	0.026 hours
Unit receding limb, Tr	0.105 hours
Total unit time, Tb	0.132 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA15 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.040 hours
Area (User Defined)	0.820 acres

Computational Time Increment	0.005 hours
Time to Peak (Computed)	12.103 hours
Flow (Peak, Computed)	0.76 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.75 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.820 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	0.052 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.052 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.040 hours
Computational Time Increment	0.005 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA15 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	23.51 ft³/s
Unit peak time, Tp	0.026 hours
Unit receding limb, Tr	0.105 hours
Total unit time, Tb	0.132 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA15 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.040 hours	
Area (User Defined)	0.820 acres	

Computational Time	
Increment	0.005 hours
Time to Peak (Computed)	12.103 hours
Flow (Peak, Computed)	2.33 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	2.33 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.820 acres
Maximum Retention (Previous)	6.4 in
Maximum Retention (Previous, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Previous)	2.1 in
Runoff Volume (Previous)	0.146 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.146 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.040 hours
Computational Time Increment	0.005 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA15 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	23.51 ft³/s
Unit peak time, Tp	0.026 hours
Unit receding limb, Tr	0.105 hours
Total unit time, Tb	0.132 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA15 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.040 hours
Area (User Defined)	0.820 acres

Computational Time Increment	0.005 hours
Time to Peak (Computed)	12.098 hours
Flow (Peak, Computed)	6.77 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	6.77 ft ³ /s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.820 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	0.428 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.428 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.040 hours
Computational Time Increment	0.005 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA15 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	23.51 ft ³ /s
Unit peak time, Tp	0.026 hours
Unit receding limb, Tr	0.105 hours
Total unit time, Tb	0.132 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA16 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.044 hours
Area (User Defined)	1,480 acres

Computational Time Increment	0.006 hours
Time to Peak (Computed)	12.095 hours
Flow (Peak, Computed)	5.94 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	5.94 ft³/s

Drainage Area	
SCS CN (Composite)	97,000
Area (User Defined)	1,480 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.6 in
Runoff Volume (Pervious)	0.438 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.438 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.044 hours
Computational Time Increment	0.006 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA16 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	38.54 ft³/s
Unit peak time, Tp	0.029 hours
Unit receding limb, Tr	0.116 hours
Total unit time, Tb	0.145 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA16 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.044 hours	
Area (User Defined)	1,480 acres	

Computational Time	
Increment	0.006 hours
Time to Peak (Computed)	12.095 hours
Flow (Peak, Computed)	9.52 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	9.52 ft ³ /s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	1,480 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.8 in
Runoff Volume (Pervious)	0.719 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.720 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.044 hours
Computational Time Increment	0.006 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA16 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, T _r /T _p	1.670
Unit peak, q _p	38.54 ft ³ /s
Unit peak time, T _p	0.029 hours
Unit receding limb, T _r	0.116 hours
Total unit time, T _b	0.145 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA16 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.044 hours
Area (User Defined)	1,480 acres

Computational Time Increment	0.006 hours
Time to Peak (Computed)	12.095 hours
Flow (Peak, Computed)	17.74 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	17.73 ft ³ /s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	1,480 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.1 in
Runoff Volume (Pervious)	1,370 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,370 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.044 hours
Computational Time Increment	0.006 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA16 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	38.54 ft ³ /s
Unit peak time, Tp	0.029 hours
Unit receding limb, Tr	0.116 hours
Total unit time, Tb	0.145 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA16 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.118 hours
Area (User Defined)	0.870 acres

Computational Time Increment	0.016 hours
Time to Peak (Computed)	12.145 hours
Flow (Peak, Computed)	0.63 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.150 hours
Flow (Peak Interpolated Output)	0.62 ft ³ /s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.870 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	0.055 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.055 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.118 hours
Computational Time Increment	0.016 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA16 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	8.33 ft ³ /s
Unit peak time, Tp	0.079 hours
Unit receding limb, Tr	0.315 hours
Total unit time, Tb	0.394 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA16 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.118 hours	
Area (User Defined)	0.870 acres	
Computational Time Increment	0.016 hours	
Time to Peak (Computed)	12.129 hours	
Flow (Peak, Computed)	2.06 ft³/s	
Output Increment	0.050 hours	
Time to Flow (Peak Interpolated Output)	12.150 hours	
Flow (Peak Interpolated Output)	1.97 ft³/s	

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.870 acres
Maximum Retention (Previous)	6.4 in
Maximum Retention (Previous, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Previous)	2.1 in
Runoff Volume (Previous)	0.155 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.155 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.118 hours
Computational Time Increment	0.016 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA16 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	8.33 ft³/s
Unit peak time, Tp	0.079 hours
Unit receding limb, Tr	0.315 hours
Total unit time, Tb	0.394 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA16 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.118 hours
Area (User Defined)	0.870 acres

Computational Time Increment	0.016 hours
Time to Peak (Computed)	12.129 hours
Flow (Peak, Computed)	6.17 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.150 hours
Flow (Peak Interpolated Output)	5.83 ft ³ /s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.870 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	0.454 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.454 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.118 hours
Computational Time Increment	0.016 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA16 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	8.33 ft ³ /s
Unit peak time, Tp	0.079 hours
Unit receding limb, Tr	0.315 hours
Total unit time, Tb	0.394 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA17 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event		2yr Projected NOAA D
Return Event	2 years	
Duration	48,000 hours	
Depth	3.9 in	
Time of Concentration (Composite)	0.028 hours	
Area (User Defined)	0.850 acres	

Computational Time		0.004 hours
Increment	12,097 hours	
Time to Peak (Computed)	3.39 ft³/s	
Flow (Peak, Computed)	0.050 hours	
Output Increment	12,100 hours	
Time to Flow (Peak Interpolated Output)	3.39 ft³/s	
Flow (Peak Interpolated Output)		

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.850 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.4 in
Runoff Volume (Pervious)	0.244 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.244 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.028 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA17 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	34.96 ft³/s
Unit peak time, Tp	0.018 hours
Unit receding limb, Tr	0.073 hours
Total unit time, Tb	0.092 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA17 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.028 hours	
Area (User Defined)	0.850 acres	

Computational Time	
Increment	0.004 hours
Time to Peak (Computed)	12.097 hours
Flow (Peak, Computed)	5.47 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	5.46 ft ³ /s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.850 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.7 in
Runoff Volume (Pervious)	0.405 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.405 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.028 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA17 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, T _r /T _p	1.670
Unit peak, q _p	34.96 ft ³ /s
Unit peak time, T _p	0.018 hours
Unit receding limb, T _r	0.073 hours
Total unit time, T _b	0.092 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA17 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.028 hours
Area (User Defined)	0.850 acres

Computational Time Increment	0.004 hours
Time to Peak (Computed)	12.097 hours
Flow (Peak, Computed)	10.22 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	10.20 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.850 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.0 in
Runoff Volume (Pervious)	0.778 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.778 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.028 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA17 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	34.96 ft³/s
Unit peak time, Tp	0.018 hours
Unit receding limb, Tr	0.073 hours
Total unit time, Tb	0.092 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA17 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event		2yr Projected NOAA D
Return Event	2 years	
Duration	48,000 hours	
Depth	3.9 in	
Time of Concentration (Composite)	0.074 hours	
Area (User Defined)	0.120 acres	

Computational Time	
Increment	0.010 hours
Time to Peak (Computed)	12.121 hours
Flow (Peak, Computed)	0.10 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.10 ft ³ /s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.120 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	0.008 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.008 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.074 hours
Computational Time Increment	0.010 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA17 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.84 ft ³ /s
Unit peak time, Tp	0.049 hours
Unit receding limb, Tr	0.197 hours
Total unit time, Tb	0.246 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA17 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.074 hours	
Area (User Defined)	0.120 acres	

Computational Time	
Increment	0.010 hours
Time to Peak (Computed)	12.111 hours
Flow (Peak, Computed)	0.32 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.31 ft ³ /s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.120 acres
Maximum Retention (Previous)	6.4 in
Maximum Retention (Previous, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Previous)	2.1 in
Runoff Volume (Previous)	0.021 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.021 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.074 hours
Computational Time Increment	0.010 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA17 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, T _r /T _p	1.670
Unit peak, q _p	1.84 ft ³ /s
Unit peak time, T _p	0.049 hours
Unit receding limb, T _r	0.197 hours
Total unit time, T _b	0.246 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA17 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.074 hours
Area (User Defined)	0.120 acres

Computational Time Increment	0.010 hours
Time to Peak (Computed)	12.111 hours
Flow (Peak, Computed)	0.94 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.93 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.120 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	0.063 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.063 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.074 hours
Computational Time Increment	0.010 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA17 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.84 ft³/s
Unit peak time, Tp	0.049 hours
Unit receding limb, Tr	0.197 hours
Total unit time, Tb	0.246 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA18 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.128 hours
Area (User Defined)	0.780 acres

Computational Time Increment	0.017 hours
Time to Peak (Computed)	12.134 hours
Flow (Peak, Computed)	2.71 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.150 hours
Flow (Peak Interpolated Output)	2.61 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.780 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.6 in
Runoff Volume (Pervious)	0.231 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.231 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.128 hours
Computational Time Increment	0.017 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA18 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	6.91 ft³/s
Unit peak time, Tp	0.085 hours
Unit receding limb, Tr	0.341 hours
Total unit time, Tb	0.426 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA18 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.128 hours	
Area (User Defined)	0.780 acres	

Computational Time	
Increment	0.017 hours
Time to Peak (Computed)	12.134 hours
Flow (Peak, Computed)	4.35 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.150 hours
Flow (Peak Interpolated Output)	4.18 ft ³ /s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.780 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.8 in
Runoff Volume (Pervious)	0.379 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.379 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.128 hours
Computational Time Increment	0.017 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA18 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, T _r /T _p	1.670
Unit peak, q _p	6.91 ft ³ /s
Unit peak time, T _p	0.085 hours
Unit receding limb, T _r	0.341 hours
Total unit time, T _b	0.426 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA18 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.128 hours
Area (User Defined)	0.780 acres

Computational Time Increment	0.017 hours
Time to Peak (Computed)	12.134 hours
Flow (Peak, Computed)	8.11 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.150 hours
Flow (Peak Interpolated Output)	7.78 ft ³ /s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.780 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.1 in
Runoff Volume (Pervious)	0.722 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.722 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.128 hours
Computational Time Increment	0.017 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA18 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	6.91 ft ³ /s
Unit peak time, Tp	0.085 hours
Unit receding limb, Tr	0.341 hours
Total unit time, Tb	0.426 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA18 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.128 hours
Area (User Defined)	0.370 acres

Computational Time	
Increment	0.017 hours
Time to Peak (Computed)	12.134 hours
Flow (Peak, Computed)	0.26 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.150 hours
Flow (Peak Interpolated Output)	0.26 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.370 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	0.024 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.024 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.128 hours
Computational Time Increment	0.017 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA18 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.28 ft³/s
Unit peak time, Tp	0.085 hours
Unit receding limb, Tr	0.341 hours
Total unit time, Tb	0.426 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA18 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.128 hours	
Area (User Defined)	0.370 acres	

Computational Time	
Increment	0.017 hours
Time to Peak (Computed)	12.134 hours
Flow (Peak, Computed)	0.86 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.150 hours
Flow (Peak Interpolated Output)	0.84 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.370 acres
Maximum Retention (Previous)	6.4 in
Maximum Retention (Previous, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Previous)	2.1 in
Runoff Volume (Previous)	0.066 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.066 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.128 hours
Computational Time Increment	0.017 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA18 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.28 ft³/s
Unit peak time, Tp	0.085 hours
Unit receding limb, Tr	0.341 hours
Total unit time, Tb	0.426 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA18 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.128 hours
Area (User Defined)	0.370 acres

Computational Time Increment	0.017 hours
Time to Peak (Computed)	12.134 hours
Flow (Peak, Computed)	2.57 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.150 hours
Flow (Peak Interpolated Output)	2.49 ft ³ /s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.370 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	0.193 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.193 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.128 hours
Computational Time Increment	0.017 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA18 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.28 ft ³ /s
Unit peak time, Tp	0.085 hours
Unit receding limb, Tr	0.341 hours
Total unit time, Tb	0.426 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA19 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48.000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.099 hours
Area (User Defined)	0.350 acres

Computational Time Increment	0.013 hours
Time to Peak (Computed)	12.117 hours
Flow (Peak, Computed)	1.27 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	1.24 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.350 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.4 in
Runoff Volume (Pervious)	0.100 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.100 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.099 hours
Computational Time Increment	0.013 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA19 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	4.01 ft³/s
Unit peak time, Tp	0.066 hours
Unit receding limb, Tr	0.264 hours
Total unit time, Tb	0.330 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA19 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.099 hours	
Area (User Defined)	0.350 acres	

Computational Time	
Increment	0.013 hours
Time to Peak (Computed)	12.117 hours
Flow (Peak, Computed)	2.06 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	2.01 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.350 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.7 in
Runoff Volume (Pervious)	0.167 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.167 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.099 hours
Computational Time Increment	0.013 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA19 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	4.01 ft³/s
Unit peak time, Tp	0.066 hours
Unit receding limb, Tr	0.264 hours
Total unit time, Tb	0.330 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA19 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.099 hours
Area (User Defined)	0.350 acres

Computational Time Increment	0.013 hours
Time to Peak (Computed)	12.117 hours
Flow (Peak, Computed)	3.85 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	3.77 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.350 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.0 in
Runoff Volume (Pervious)	0.320 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.320 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.099 hours
Computational Time Increment	0.013 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA19 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	4.01 ft³/s
Unit peak time, Tp	0.066 hours
Unit receding limb, Tr	0.264 hours
Total unit time, Tb	0.330 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA19 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.099 hours
Area (User Defined)	0.100 acres

Computational Time Increment	0.013 hours
Time to Peak (Computed)	12.130 hours
Flow (Peak, Computed)	0.08 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.150 hours
Flow (Peak Interpolated Output)	0.07 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.100 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	0.006 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.006 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.099 hours
Computational Time Increment	0.013 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA19 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.14 ft³/s
Unit peak time, Tp	0.066 hours
Unit receding limb, Tr	0.264 hours
Total unit time, Tb	0.330 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA19 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.099 hours	
Area (User Defined)	0.100 acres	

Computational Time		0.013 hours
Increment	12.117 hours	
Time to Peak (Computed)	0.25 ft³/s	
Flow (Peak, Computed)	0.050 hours	
Output Increment	12.100 hours	
Time to Flow (Peak Interpolated Output)	0.23 ft³/s	
Flow (Peak Interpolated Output)		

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.100 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	0.018 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.018 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.099 hours
Computational Time Increment	0.013 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA19 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.14 ft³/s
Unit peak time, Tp	0.066 hours
Unit receding limb, Tr	0.264 hours
Total unit time, Tb	0.330 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA19 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.099 hours
Area (User Defined)	0.100 acres

Computational Time Increment	0.013 hours
Time to Peak (Computed)	12.117 hours
Flow (Peak, Computed)	0.74 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.71 ft ³ /s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.100 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	0.052 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.052 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.099 hours
Computational Time Increment	0.013 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA19 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.14 ft ³ /s
Unit peak time, Tp	0.066 hours
Unit receding limb, Tr	0.264 hours
Total unit time, Tb	0.330 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA2 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

2yr Projected NOAA D	
Storm Event	2 years
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.030 hours
Area (User Defined)	0.840 acres

Computational Time Increment	0.004 hours
Time to Peak (Computed)	12.097 hours
Flow (Peak, Computed)	3.39 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	3.39 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.840 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.6 in
Runoff Volume (Pervious)	0.249 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.249 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.030 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA2 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	31.60 ft³/s
Unit peak time, Tp	0.020 hours
Unit receding limb, Tr	0.080 hours
Total unit time, Tb	0.100 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA2 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.030 hours	
Area (User Defined)	0.840 acres	

Computational Time		0.004 hours
Increment	12,097 hours	
Time to Peak (Computed)	5.43 ft³/s	
Flow (Peak, Computed)	0.050 hours	
Output Increment	12,100 hours	
Time to Flow (Peak Interpolated Output)	5.43 ft³/s	
Flow (Peak Interpolated Output)		

Drainage Area		
SCS CN (Composite)	97,000	
Area (User Defined)	0.840 acres	
Maximum Retention (Pervious)	0.3 in	
Maximum Retention (Pervious, 20 percent)	0.1 in	

Cumulative Runoff		
Cumulative Runoff Depth (Pervious)	5.8 in	
Runoff Volume (Pervious)	0.408 ac-ft	

Hydrograph Volume (Area under Hydrograph curve)		
Volume	0.408 ac-ft	

SCS Unit Hydrograph Parameters		
Time of Concentration (Composite)	0.030 hours	
Computational Time Increment	0.004 hours	
Unit Hydrograph Shape Factor	483.432	
K Factor	0.749	

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA2 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters		
Receding/Rising, Tr/Tp	1.670	
Unit peak, qp	31.60 ft³/s	
Unit peak time, Tp	0.020 hours	
Unit receding limb, Tr	0.080 hours	
Total unit time, Tb	0.100 hours	

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA2 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.030 hours
Area (User Defined)	0.840 acres

Computational Time Increment	0.004 hours
Time to Peak (Computed)	12.097 hours
Flow (Peak, Computed)	10.12 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	10.10 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.840 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.1 in
Runoff Volume (Pervious)	0.777 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.777 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.030 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA2 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	31.60 ft³/s
Unit peak time, Tp	0.020 hours
Unit receding limb, Tr	0.080 hours
Total unit time, Tb	0.100 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA2 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event		2yr Projected NOAA D
Return Event	2 years	
Duration	48,000 hours	
Depth	3.9 in	
Time of Concentration (Composite)	0.055 hours	
Area (User Defined)	0.920 acres	

Computational Time		0.007 hours
Increment	12.110 hours	
Time to Peak (Computed)	0.89 ft³/s	
Flow (Peak, Computed)	0.050 hours	
Output Increment	12.100 hours	
Time to Flow (Peak Interpolated Output)	0.87 ft³/s	
Flow (Peak Interpolated Output)		

Drainage Area	
SCS CN (Composite)	62.000
Area (User Defined)	0.920 acres
Maximum Retention (Pervious)	6.1 in
Maximum Retention (Pervious, 20 percent)	1.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	0.062 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.062 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.055 hours
Computational Time Increment	0.007 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA2 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	19.12 ft³/s
Unit peak time, Tp	0.036 hours
Unit receding limb, Tr	0.145 hours
Total unit time, Tb	0.182 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA2 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.055 hours	
Area (User Defined)	0.920 acres	

Computational Time	
Increment	0.007 hours
Time to Peak (Computed)	12.103 hours
Flow (Peak, Computed)	2.65 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	2.64 ft³/s

Drainage Area	
SCS CN (Composite)	62.000
Area (User Defined)	0.920 acres
Maximum Retention (Previous)	6.1 in
Maximum Retention (Previous, 20 percent)	1.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Previous)	2.2 in
Runoff Volume (Previous)	0.170 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.170 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.055 hours
Computational Time Increment	0.007 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA2 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	19.12 ft³/s
Unit peak time, Tp	0.036 hours
Unit receding limb, Tr	0.145 hours
Total unit time, Tb	0.182 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA2 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.055 hours
Area (User Defined)	0.920 acres

Computational Time Increment	0.007 hours
Time to Peak (Computed)	12.103 hours
Flow (Peak, Computed)	7.61 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	7.59 ft³/s

Drainage Area	
SCS CN (Composite)	62.000
Area (User Defined)	0.920 acres
Maximum Retention (Pervious)	6.1 in
Maximum Retention (Pervious, 20 percent)	1.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.4 in
Runoff Volume (Pervious)	0.491 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.491 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.055 hours
Computational Time Increment	0.007 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA2 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	19.12 ft³/s
Unit peak time, Tp	0.036 hours
Unit receding limb, Tr	0.145 hours
Total unit time, Tb	0.182 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA20 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event		2yr Projected NOAA D
Return Event	2 years	
Duration	48,000 hours	
Depth	3.9 in	
Time of Concentration (Composite)	0.033 hours	
Area (User Defined)	0.690 acres	

Computational Time		0.004 hours
Increment	12,097 hours	
Time to Peak (Computed)	2.78 ft³/s	
Flow (Peak, Computed)	0.050 hours	
Output Increment	12,100 hours	
Time to Flow (Peak Interpolated Output)	2.78 ft³/s	
Flow (Peak Interpolated Output)		

Drainage Area		
SCS CN (Composite)	97,000	
Area (User Defined)	0.690 acres	
Maximum Retention (Pervious)	0.3 in	
Maximum Retention (Pervious, 20 percent)	0.1 in	

Cumulative Runoff		
Cumulative Runoff Depth (Pervious)	3.6 in	
Runoff Volume (Pervious)	0.204 ac-ft	

Hydrograph Volume (Area under Hydrograph curve)		
Volume	0.204 ac-ft	

SCS Unit Hydrograph Parameters		
Time of Concentration (Composite)	0.033 hours	
Computational Time Increment	0.004 hours	
Unit Hydrograph Shape Factor	483.432	
K Factor	0.749	

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA20 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters		
Receding/Rising, Tr/Tp	1.670	
Unit peak, qp	23.71 ft³/s	
Unit peak time, Tp	0.022 hours	
Unit receding limb, Tr	0.088 hours	
Total unit time, Tb	0.110 hours	

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA20 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.033 hours	
Area (User Defined)	0.690 acres	

Computational Time	
Increment	0.004 hours
Time to Peak (Computed)	12.097 hours
Flow (Peak, Computed)	4.46 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	4.45 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.690 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.8 in
Runoff Volume (Pervious)	0.335 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.335 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.033 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA20 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	23.71 ft³/s
Unit peak time, Tp	0.022 hours
Unit receding limb, Tr	0.088 hours
Total unit time, Tb	0.110 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA20 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.033 hours
Area (User Defined)	0.690 acres

Computational Time Increment	0.004 hours
Time to Peak (Computed)	12.097 hours
Flow (Peak, Computed)	8.31 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	8.29 ft ³ /s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.690 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.1 in
Runoff Volume (Pervious)	0.639 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.639 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.033 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA20 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	23.71 ft ³ /s
Unit peak time, Tp	0.022 hours
Unit receding limb, Tr	0.088 hours
Total unit time, Tb	0.110 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA20 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.033 hours
Area (User Defined)	0.400 acres

Computational Time Increment	0.004 hours
Time to Peak (Computed)	12.104 hours
Flow (Peak, Computed)	0.38 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.38 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.400 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	0.025 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.025 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.033 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA20 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	13.88 ft³/s
Unit peak time, Tp	0.022 hours
Unit receding limb, Tr	0.087 hours
Total unit time, Tb	0.109 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA20 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.033 hours	
Area (User Defined)	0.400 acres	

Computational Time	
Increment	0.004 hours
Time to Peak (Computed)	12.100 hours
Flow (Peak, Computed)	1.15 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	1.15 ft ³ /s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.400 acres
Maximum Retention (Previous)	6.4 in
Maximum Retention (Previous, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Previous)	2.1 in
Runoff Volume (Previous)	0.071 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.071 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.033 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA20 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	13.88 ft ³ /s
Unit peak time, Tp	0.022 hours
Unit receding limb, Tr	0.087 hours
Total unit time, Tb	0.109 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA20 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.033 hours
Area (User Defined)	0.400 acres

Computational Time Increment	0.004 hours
Time to Peak (Computed)	12.100 hours
Flow (Peak, Computed)	3.33 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	3.33 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.400 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	0.209 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.209 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.033 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA20 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	13.88 ft³/s
Unit peak time, Tp	0.022 hours
Unit receding limb, Tr	0.087 hours
Total unit time, Tb	0.109 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA21 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event		2yr Projected NOAA D
Return Event	2 years	
Duration	48,000 hours	
Depth	3.9 in	
Time of Concentration (Composite)	0.083 hours	
Area (User Defined)	0.520 acres	

Computational Time		0.011 hours
Increment	12.111 hours	
Time to Peak (Computed)	1.96 ft³/s	
Flow (Peak, Computed)	0.050 hours	
Output Increment	12.100 hours	
Time to Flow (Peak Interpolated Output)	1.94 ft³/s	
Flow (Peak Interpolated Output)		

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.520 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.4 in
Runoff Volume (Pervious)	0.149 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.149 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.083 hours
Computational Time Increment	0.011 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA21 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	7.10 ft³/s
Unit peak time, Tp	0.055 hours
Unit receding limb, Tr	0.221 hours
Total unit time, Tb	0.277 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA21 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.083 hours	
Area (User Defined)	0.520 acres	

Computational Time		0.011 hours
Increment	12.111 hours	
Time to Peak (Computed)	3.16 ft³/s	
Flow (Peak, Computed)	0.050 hours	
Output Increment	12.100 hours	
Time to Flow (Peak Interpolated Output)	3.14 ft³/s	
Flow (Peak Interpolated Output)		

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.520 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.7 in
Runoff Volume (Pervious)	0.248 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.248 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.083 hours
Computational Time Increment	0.011 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA21 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	7.10 ft³/s
Unit peak time, Tp	0.055 hours
Unit receding limb, Tr	0.221 hours
Total unit time, Tb	0.277 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA21 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.083 hours
Area (User Defined)	0.520 acres

Computational Time Increment	0.011 hours
Time to Peak (Computed)	12.111 hours
Flow (Peak, Computed)	5.91 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	5.87 ft ³ /s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.520 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.0 in
Runoff Volume (Pervious)	0.476 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.476 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.083 hours
Computational Time Increment	0.011 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA21 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	7.10 ft ³ /s
Unit peak time, Tp	0.055 hours
Unit receding limb, Tr	0.221 hours
Total unit time, Tb	0.277 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA21 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.082 hours
Area (User Defined)	0.230 acres

Computational Time	
Increment	0.011 hours
Time to Peak (Computed)	12.116 hours
Flow (Peak, Computed)	0.19 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.18 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.230 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	0.015 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.015 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.082 hours
Computational Time Increment	0.011 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA21 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.17 ft³/s
Unit peak time, Tp	0.055 hours
Unit receding limb, Tr	0.219 hours
Total unit time, Tb	0.274 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA21 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.082 hours	
Area (User Defined)	0.230 acres	

Computational Time		0.011 hours
Increment	12.116 hours	
Time to Peak (Computed)	0.60 ft³/s	
Flow (Peak, Computed)	0.050 hours	
Output Increment	12.100 hours	
Time to Flow (Peak Interpolated Output)	0.58 ft³/s	
Flow (Peak Interpolated Output)		

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.230 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	0.041 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.041 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.082 hours
Computational Time Increment	0.011 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA21 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters		1.670
Receding/Rising, Tr/Tp	3.17 ft³/s	
Unit peak, qp	0.055 hours	
Unit peak time, Tp	0.219 hours	
Unit receding limb, Tr	0.274 hours	
Total unit time, Tb		

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA21 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.082 hours
Area (User Defined)	0.230 acres

Computational Time Increment	0.011 hours
Time to Peak (Computed)	12.116 hours
Flow (Peak, Computed)	1.76 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	1.73 ft ³ /s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.230 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	0.120 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.120 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.082 hours
Computational Time Increment	0.011 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA21 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.17 ft ³ /s
Unit peak time, Tp	0.055 hours
Unit receding limb, Tr	0.219 hours
Total unit time, Tb	0.274 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA22 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event		2yr Projected NOAA D
Return Event	2 years	
Duration	48,000 hours	
Depth	3.9 in	
Time of Concentration (Composite)	0.022 hours	
Area (User Defined)	0.830 acres	

Computational Time	
Increment	0.003 hours
Time to Peak (Computed)	12.100 hours
Flow (Peak, Computed)	3.31 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	3.31 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.830 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.4 in
Runoff Volume (Pervious)	0.238 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.238 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.022 hours
Computational Time Increment	0.003 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA22 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	42.91 ft³/s
Unit peak time, Tp	0.015 hours
Unit receding limb, Tr	0.058 hours
Total unit time, Tb	0.073 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA22 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.022 hours	
Area (User Defined)	0.830 acres	

Computational Time	
Increment	0.003 hours
Time to Peak (Computed)	12.100 hours
Flow (Peak, Computed)	5.34 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	5.34 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.830 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.7 in
Runoff Volume (Pervious)	0.395 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.396 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.022 hours
Computational Time Increment	0.003 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA22 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	42.91 ft³/s
Unit peak time, Tp	0.015 hours
Unit receding limb, Tr	0.058 hours
Total unit time, Tb	0.073 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA22 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.022 hours
Area (User Defined)	0.830 acres

Computational Time Increment	0.003 hours
Time to Peak (Computed)	12.100 hours
Flow (Peak, Computed)	9.98 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	9.97 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.830 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.0 in
Runoff Volume (Pervious)	0.760 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.760 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.022 hours
Computational Time Increment	0.003 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA22 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	42.91 ft³/s
Unit peak time, Tp	0.015 hours
Unit receding limb, Tr	0.058 hours
Total unit time, Tb	0.073 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA22 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event		2yr Projected NOAA D
Return Event	2 years	
Duration	48,000 hours	
Depth	3.9 in	
Time of Concentration (Composite)	0.020 hours	
Area (User Defined)	0.450 acres	

Computational Time		0.003 hours
Increment	12.101 hours	
Time to Peak (Computed)	0.51 ft³/s	
Flow (Peak, Computed)	0.050 hours	
Output Increment	12.100 hours	
Time to Flow (Peak Interpolated Output)	0.51 ft³/s	
Flow (Peak Interpolated Output)		

Drainage Area	
SCS CN (Composite)	63.000
Area (User Defined)	0.450 acres
Maximum Retention (Pervious)	5.9 in
Maximum Retention (Pervious, 20 percent)	1.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.9 in
Runoff Volume (Pervious)	0.032 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.033 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.020 hours
Computational Time Increment	0.003 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA22 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	25.49 ft³/s
Unit peak time, Tp	0.013 hours
Unit receding limb, Tr	0.053 hours
Total unit time, Tb	0.067 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA22 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.020 hours	
Area (User Defined)	0.450 acres	

Computational Time	
Increment	0.003 hours
Time to Peak (Computed)	12.099 hours
Flow (Peak, Computed)	1.43 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	1.43 ft ³ /s

Drainage Area	
SCS CN (Composite)	63.000
Area (User Defined)	0.450 acres
Maximum Retention (Pervious)	5.9 in
Maximum Retention (Pervious, 20 percent)	1.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.3 in
Runoff Volume (Pervious)	0.087 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.087 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.020 hours
Computational Time Increment	0.003 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA22 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	25.49 ft ³ /s
Unit peak time, Tp	0.013 hours
Unit receding limb, Tr	0.053 hours
Total unit time, Tb	0.067 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA22 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.020 hours
Area (User Defined)	0.450 acres

Computational Time Increment	0.003 hours
Time to Peak (Computed)	12.099 hours
Flow (Peak, Computed)	3.93 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	3.93 ft³/s

Drainage Area	
SCS CN (Composite)	63.000
Area (User Defined)	0.450 acres
Maximum Retention (Pervious)	5.9 in
Maximum Retention (Pervious, 20 percent)	1.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.6 in
Runoff Volume (Pervious)	0.246 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.247 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.020 hours
Computational Time Increment	0.003 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA22 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	25.49 ft³/s
Unit peak time, Tp	0.013 hours
Unit receding limb, Tr	0.053 hours
Total unit time, Tb	0.067 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA25 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.097 hours
Area (User Defined)	1.930 acres

Computational Time Increment	0.013 hours
Time to Peak (Computed)	12.116 hours
Flow (Peak, Computed)	7.06 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	6.92 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	1.930 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.4 in
Runoff Volume (Pervious)	0.553 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.553 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.097 hours
Computational Time Increment	0.013 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA25 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	22.60 ft³/s
Unit peak time, Tp	0.065 hours
Unit receding limb, Tr	0.258 hours
Total unit time, Tb	0.323 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA25 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.097 hours	
Area (User Defined)	1.930 acres	

Computational Time	
Increment	0.013 hours
Time to Peak (Computed)	12.116 hours
Flow (Peak, Computed)	11.41 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	11.18 ft ³ /s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	1.930 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.7 in
Runoff Volume (Pervious)	0.919 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.919 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.097 hours
Computational Time Increment	0.013 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA25 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	22.60 ft ³ /s
Unit peak time, Tp	0.065 hours
Unit receding limb, Tr	0.258 hours
Total unit time, Tb	0.323 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA25 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.097 hours
Area (User Defined)	1.930 acres

Computational Time Increment	0.013 hours
Time to Peak (Computed)	12.116 hours
Flow (Peak, Computed)	21.34 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	20.93 ft ³ /s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	1.930 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.0 in
Runoff Volume (Pervious)	1.767 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1.767 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.097 hours
Computational Time Increment	0.013 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA25 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	22.60 ft ³ /s
Unit peak time, Tp	0.065 hours
Unit receding limb, Tr	0.258 hours
Total unit time, Tb	0.323 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA25 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.097 hours
Area (User Defined)	1,480 acres

Computational Time Increment	0.013 hours
Time to Peak (Computed)	12.129 hours
Flow (Peak, Computed)	1.15 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.150 hours
Flow (Peak Interpolated Output)	1.06 ft ³ /s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	1,480 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	0.094 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.094 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.097 hours
Computational Time Increment	0.013 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA25 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	17.33 ft ³ /s
Unit peak time, Tp	0.065 hours
Unit receding limb, Tr	0.258 hours
Total unit time, Tb	0.323 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA25 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.097 hours	
Area (User Defined)	1,480 acres	
Computational Time Increment	0.013 hours	
Time to Peak (Computed)	12.116 hours	
Flow (Peak, Computed)	3.68 ft ³ /s	
Output Increment	0.050 hours	
Time to Flow (Peak Interpolated Output)	12.100 hours	
Flow (Peak Interpolated Output)	3.51 ft ³ /s	

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	1,480 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	0.263 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.263 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.097 hours
Computational Time Increment	0.013 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA25 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	17.33 ft ³ /s
Unit peak time, Tp	0.065 hours
Unit receding limb, Tr	0.258 hours
Total unit time, Tb	0.323 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA25 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.097 hours
Area (User Defined)	1,480 acres

Computational Time Increment	0.013 hours
Time to Peak (Computed)	12.116 hours
Flow (Peak, Computed)	11.01 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	10.65 ft ³ /s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	1,480 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	0.772 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.772 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.097 hours
Computational Time Increment	0.013 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA25 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	17.33 ft ³ /s
Unit peak time, Tp	0.065 hours
Unit receding limb, Tr	0.258 hours
Total unit time, Tb	0.323 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA26 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

2yr Projected NOAA D	
Storm Event	2 years
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.073 hours
Area (User Defined)	1,590 acres

Computational Time Increment	0.010 hours
Time to Peak (Computed)	12.108 hours
Flow (Peak, Computed)	6.23 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	6.20 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	1,590 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.7 in
Runoff Volume (Pervious)	0.486 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.486 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.073 hours
Computational Time Increment	0.010 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA26 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	24.82 ft³/s
Unit peak time, Tp	0.048 hours
Unit receding limb, Tr	0.194 hours
Total unit time, Tb	0.242 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA26 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.073 hours	
Area (User Defined)	1,590 acres	

Computational Time	
Increment	0.010 hours
Time to Peak (Computed)	12.108 hours
Flow (Peak, Computed)	9.93 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	9.89 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	1,590 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.0 in
Runoff Volume (Pervious)	0.789 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.789 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.073 hours
Computational Time Increment	0.010 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA26 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	24.82 ft³/s
Unit peak time, Tp	0.048 hours
Unit receding limb, Tr	0.194 hours
Total unit time, Tb	0.242 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA26 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.073 hours
Area (User Defined)	1,590 acres

Computational Time Increment	0.010 hours
Time to Peak (Computed)	12.108 hours
Flow (Peak, Computed)	18.44 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	18.38 ft ³ /s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	1,590 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.2 in
Runoff Volume (Pervious)	1,488 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,488 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.073 hours
Computational Time Increment	0.010 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA26 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	24.82 ft ³ /s
Unit peak time, Tp	0.048 hours
Unit receding limb, Tr	0.194 hours
Total unit time, Tb	0.242 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA26 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event		2yr Projected NOAA D
Return Event	2 years	
Duration	48,000 hours	
Depth	3.9 in	
Time of Concentration (Composite)	0.073 hours	
Area (User Defined)	0.110 acres	

Computational Time	
Increment	0.010 hours
Time to Peak (Computed)	12.117 hours
Flow (Peak, Computed)	0.09 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.09 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.110 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	0.007 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.007 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.073 hours
Computational Time Increment	0.010 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA26 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.72 ft³/s
Unit peak time, Tp	0.048 hours
Unit receding limb, Tr	0.194 hours
Total unit time, Tb	0.242 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA26 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	
10yr Projected NOAA D	
Return Event	10 years
Duration	48,000 hours
Depth	6.2 in
Time of Concentration (Composite)	0.073 hours
Area (User Defined)	0.110 acres

Computational Time	
Increment	0.010 hours
Time to Peak (Computed)	12.108 hours
Flow (Peak, Computed)	0.29 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.29 ft ³ /s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.110 acres
Maximum Retention (Previous)	6.4 in
Maximum Retention (Previous, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Previous)	2.1 in
Runoff Volume (Previous)	0.020 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.020 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.073 hours
Computational Time Increment	0.010 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA26 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, T _r /T _p	1.670
Unit peak, q _p	1.72 ft ³ /s
Unit peak time, T _p	0.048 hours
Unit receding limb, T _r	0.194 hours
Total unit time, T _b	0.242 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA26 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.073 hours
Area (User Defined)	0.110 acres

Computational Time Increment	0.010 hours
Time to Peak (Computed)	12.108 hours
Flow (Peak, Computed)	0.86 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.85 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.110 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	0.057 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.057 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.073 hours
Computational Time Increment	0.010 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA26 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.72 ft³/s
Unit peak time, Tp	0.048 hours
Unit receding limb, Tr	0.194 hours
Total unit time, Tb	0.242 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA27
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event		2yr Projected NOAA D
Return Event	2 years	
Duration	48,000 hours	
Depth	3.9 in	
Time of Concentration (Composite)	0.020 hours	
Area (User Defined)	0.770 acres	

Computational Time		0.003 hours
Increment	12,099 hours	
Time to Peak (Computed)	3.14 ft³/s	
Flow (Peak, Computed)	0.050 hours	
Output Increment	12,100 hours	
Time to Flow (Peak Interpolated Output)	3.13 ft³/s	
Flow (Peak Interpolated Output)		

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.770 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.7 in
Runoff Volume (Pervious)	0.235 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.235 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.020 hours
Computational Time Increment	0.003 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA27
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	43.62 ft³/s
Unit peak time, Tp	0.013 hours
Unit receding limb, Tr	0.053 hours
Total unit time, Tb	0.067 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DAZ7
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.020 hours	
Area (User Defined)	0.770 acres	

Computational Time		0.003 hours
Increment	12,099 hours	
Time to Peak (Computed)	5.00 ft³/s	
Flow (Peak, Computed)	0.050 hours	
Output Increment	12,100 hours	
Time to Flow (Peak Interpolated Output)	4.99 ft³/s	
Flow (Peak Interpolated Output)		

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.770 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.0 in
Runoff Volume (Pervious)	0.382 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.382 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.020 hours
Computational Time Increment	0.003 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DAZ7
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	43.62 ft³/s
Unit peak time, Tp	0.013 hours
Unit receding limb, Tr	0.053 hours
Total unit time, Tb	0.067 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA27
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.020 hours
Area (User Defined)	0.770 acres

Computational Time Increment	0.003 hours
Time to Peak (Computed)	12.099 hours
Flow (Peak, Computed)	9.29 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.050 hours
Flow (Peak Interpolated Output)	9.27 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.770 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.2 in
Runoff Volume (Pervious)	0.721 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.721 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.020 hours
Computational Time Increment	0.003 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA27
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	43.62 ft³/s
Unit peak time, Tp	0.013 hours
Unit receding limb, Tr	0.053 hours
Total unit time, Tb	0.067 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA28 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.036 hours
Area (User Defined)	0.900 acres

Computational Time Increment	0.005 hours
Time to Peak (Computed)	12.100 hours
Flow (Peak, Computed)	3.63 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	3.63 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.900 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.6 in
Runoff Volume (Pervious)	0.266 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.266 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.036 hours
Computational Time Increment	0.005 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA28 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	28.10 ft³/s
Unit peak time, Tp	0.024 hours
Unit receding limb, Tr	0.097 hours
Total unit time, Tb	0.121 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA28 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.036 hours	
Area (User Defined)	0.900 acres	

Computational Time	
Increment	0.005 hours
Time to Peak (Computed)	12.100 hours
Flow (Peak, Computed)	5.82 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	5.82 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.900 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.8 in
Runoff Volume (Pervious)	0.438 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.438 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.036 hours
Computational Time Increment	0.005 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA28 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	28.10 ft³/s
Unit peak time, Tp	0.024 hours
Unit receding limb, Tr	0.097 hours
Total unit time, Tb	0.121 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA28 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.036 hours
Area (User Defined)	0.900 acres

Computational Time Increment	0.005 hours
Time to Peak (Computed)	12.100 hours
Flow (Peak, Computed)	10.83 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	10.83 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.900 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.1 in
Runoff Volume (Pervious)	0.833 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.833 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.036 hours
Computational Time Increment	0.005 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA28 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	28.10 ft³/s
Unit peak time, Tp	0.024 hours
Unit receding limb, Tr	0.097 hours
Total unit time, Tb	0.121 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA28 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.236 hours
Area (User Defined)	0.810 acres

Computational Time Increment	0.031 hours
Time to Peak (Computed)	12.218 hours
Flow (Peak, Computed)	0.44 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.200 hours
Flow (Peak Interpolated Output)	0.44 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.810 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	0.051 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.051 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.236 hours
Computational Time Increment	0.031 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA28 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.90 ft³/s
Unit peak time, Tp	0.157 hours
Unit receding limb, Tr	0.628 hours
Total unit time, Tb	0.785 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA28 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	
10yr Projected NOAA D	
Return Event	10 years
Duration	48,000 hours
Depth	6.2 in
Time of Concentration (Composite)	0.236 hours
Area (User Defined)	0.810 acres

Computational Time Increment	0.031 hours
Time to Peak (Computed)	12.186 hours
Flow (Peak, Computed)	1.47 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.200 hours
Flow (Peak Interpolated Output)	1.46 ft ³ /s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.810 acres
Maximum Retention (Previous)	6.4 in
Maximum Retention (Previous, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Previous)	2.1 in
Runoff Volume (Previous)	0.144 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.144 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.236 hours
Computational Time Increment	0.031 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA28 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.90 ft ³ /s
Unit peak time, Tp	0.157 hours
Unit receding limb, Tr	0.628 hours
Total unit time, Tb	0.785 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA28 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.236 hours
Area (User Defined)	0.810 acres

Computational Time Increment	0.031 hours
Time to Peak (Computed)	12.186 hours
Flow (Peak, Computed)	4.49 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.200 hours
Flow (Peak Interpolated Output)	4.44 ft ³ /s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.810 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	0.423 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.423 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.236 hours
Computational Time Increment	0.031 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA28 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.90 ft ³ /s
Unit peak time, Tp	0.157 hours
Unit receding limb, Tr	0.628 hours
Total unit time, Tb	0.785 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA29 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event		2yr Projected NOAA D
Return Event	2 years	
Duration	48,000 hours	
Depth	3.9 in	
Time of Concentration (Composite)	0.040 hours	
Area (User Defined)	1.030 acres	

Computational Time		0.005 hours
Increment	12,096 hours	
Time to Peak (Computed)	4.14 ft³/s	
Flow (Peak, Computed)	0.050 hours	
Output Increment	12,100 hours	
Time to Flow (Peak Interpolated Output)	4.14 ft³/s	
Flow (Peak Interpolated Output)		

Drainage Area		
SCS CN (Composite)	97,000	
Area (User Defined)	1.030 acres	
Maximum Retention (Pervious)	0.3 in	
Maximum Retention (Pervious, 20 percent)	0.1 in	

Cumulative Runoff		
Cumulative Runoff Depth (Pervious)	3.6 in	
Runoff Volume (Pervious)	0.305 ac-ft	

Hydrograph Volume (Area under Hydrograph curve)		
Volume	0.305 ac-ft	

SCS Unit Hydrograph Parameters		
Time of Concentration (Composite)	0.040 hours	
Computational Time Increment	0.005 hours	
Unit Hydrograph Shape Factor	483.432	
K Factor	0.749	

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA29 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters		
Receding/Rising, Tr/Tp	1.670	
Unit peak, qp	29.18 ft³/s	
Unit peak time, Tp	0.027 hours	
Unit receding limb, Tr	0.107 hours	
Total unit time, Tb	0.133 hours	

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA29 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.040 hours	
Area (User Defined)	1.030 acres	

Computational Time	
Increment	0.005 hours
Time to Peak (Computed)	12.096 hours
Flow (Peak, Computed)	6.64 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	6.64 ft ³ /s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	1.030 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.8 in
Runoff Volume (Pervious)	0.501 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.501 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.040 hours
Computational Time Increment	0.005 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA29 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, T _r /T _p	1.670
Unit peak, q _p	29.18 ft ³ /s
Unit peak time, T _p	0.027 hours
Unit receding limb, T _r	0.107 hours
Total unit time, T _b	0.133 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA29 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.040 hours
Area (User Defined)	1.030 acres

Computational Time Increment	0.005 hours
Time to Peak (Computed)	12.096 hours
Flow (Peak, Computed)	12.37 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	12.36 ft ³ /s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	1.030 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.1 in
Runoff Volume (Pervious)	0.953 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.953 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.040 hours
Computational Time Increment	0.005 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA29 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	29.18 ft ³ /s
Unit peak time, Tp	0.027 hours
Unit receding limb, Tr	0.107 hours
Total unit time, Tb	0.133 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA29 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.080 hours
Area (User Defined)	0.210 acres

Computational Time Increment	0.011 hours
Time to Peak (Computed)	12.117 hours
Flow (Peak, Computed)	0.17 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.16 ft ³ /s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.210 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	0.013 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.013 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.080 hours
Computational Time Increment	0.011 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA29 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	2.97 ft ³ /s
Unit peak time, Tp	0.053 hours
Unit receding limb, Tr	0.213 hours
Total unit time, Tb	0.267 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA29 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.080 hours	
Area (User Defined)	0.210 acres	

Computational Time	
Increment	0.011 hours
Time to Peak (Computed)	12.117 hours
Flow (Peak, Computed)	0.55 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.53 ft ³ /s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.210 acres
Maximum Retention (Previous)	6.4 in
Maximum Retention (Previous, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Previous)	2.1 in
Runoff Volume (Previous)	0.037 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.037 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.080 hours
Computational Time Increment	0.011 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA29 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	2.97 ft ³ /s
Unit peak time, Tp	0.053 hours
Unit receding limb, Tr	0.213 hours
Total unit time, Tb	0.267 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA29 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.080 hours
Area (User Defined)	0.210 acres

Computational Time	
Increment	0.011 hours
Time to Peak (Computed)	12.107 hours
Flow (Peak, Computed)	1.62 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	1.60 ft ³ /s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.210 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	0.110 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.110 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.080 hours
Computational Time Increment	0.011 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA29 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	2.97 ft ³ /s
Unit peak time, Tp	0.053 hours
Unit receding limb, Tr	0.213 hours
Total unit time, Tb	0.267 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA30 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.032 hours
Area (User Defined)	1.380 acres

Computational Time Increment	0.004 hours
Time to Peak (Computed)	12.100 hours
Flow (Peak, Computed)	5.50 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	5.50 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	1.380 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.4 in
Runoff Volume (Pervious)	0.396 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.396 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.032 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA30 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	48.24 ft³/s
Unit peak time, Tp	0.022 hours
Unit receding limb, Tr	0.086 hours
Total unit time, Tb	0.108 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA30 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.032 hours	
Area (User Defined)	1.380 acres	

Computational Time	
Increment	0.004 hours
Time to Peak (Computed)	12.096 hours
Flow (Peak, Computed)	8.88 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	8.88 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	1.380 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.7 in
Runoff Volume (Pervious)	0.657 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.658 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.032 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA30 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	48.24 ft³/s
Unit peak time, Tp	0.022 hours
Unit receding limb, Tr	0.086 hours
Total unit time, Tb	0.108 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA30 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.032 hours
Area (User Defined)	1.380 acres

Computational Time Increment	0.004 hours
Time to Peak (Computed)	12.096 hours
Flow (Peak, Computed)	16.59 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	16.59 ft ³ /s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	1.380 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.0 in
Runoff Volume (Pervious)	1.263 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1.263 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.032 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA30 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	48.24 ft ³ /s
Unit peak time, Tp	0.022 hours
Unit receding limb, Tr	0.086 hours
Total unit time, Tb	0.108 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA30 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.121 hours
Area (User Defined)	1.710 acres

Computational Time Increment	0.016 hours
Time to Peak (Computed)	12.137 hours
Flow (Peak, Computed)	1.97 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.150 hours
Flow (Peak Interpolated Output)	1.91 ft³/s

Drainage Area	
SCS CN (Composite)	67,000
Area (User Defined)	1.710 acres
Maximum Retention (Pervious)	4.9 in
Maximum Retention (Pervious, 20 percent)	1.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.1 in
Runoff Volume (Pervious)	0.154 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.154 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.121 hours
Computational Time Increment	0.016 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA30 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	16.05 ft³/s
Unit peak time, Tp	0.080 hours
Unit receding limb, Tr	0.322 hours
Total unit time, Tb	0.402 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA30 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.121 hours	
Area (User Defined)	1.710 acres	

Computational Time		0.016 hours
Increment	12.137 hours	
Time to Peak (Computed)	5.11 ft³/s	
Flow (Peak, Computed)	0.050 hours	
Output Increment	12.150 hours	
Time to Flow (Peak Interpolated Output)	4.93 ft³/s	
Flow (Peak Interpolated Output)		

Drainage Area	
SCS CN (Composite)	67,000
Area (User Defined)	1.710 acres
Maximum Retention (Pervious)	4.9 in
Maximum Retention (Pervious, 20 percent)	1.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.7 in
Runoff Volume (Pervious)	0.381 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.381 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.121 hours
Computational Time Increment	0.016 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA30 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	16.05 ft³/s
Unit peak time, Tp	0.080 hours
Unit receding limb, Tr	0.322 hours
Total unit time, Tb	0.402 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA30 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.121 hours
Area (User Defined)	1.710 acres

Computational Time Increment	0.016 hours
Time to Peak (Computed)	12.121 hours
Flow (Peak, Computed)	13.50 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.150 hours
Flow (Peak Interpolated Output)	12.90 ft ³ /s

Drainage Area	
SCS CN (Composite)	67.000
Area (User Defined)	1.710 acres
Maximum Retention (Pervious)	4.9 in
Maximum Retention (Pervious, 20 percent)	1.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	7.1 in
Runoff Volume (Pervious)	1.017 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1.017 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.121 hours
Computational Time Increment	0.016 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA30 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	16.05 ft ³ /s
Unit peak time, Tp	0.080 hours
Unit receding limb, Tr	0.322 hours
Total unit time, Tb	0.402 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA31 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.048 hours
Area (User Defined)	0.580 acres

Computational Time	
Increment	0.006 hours
Time to Peak (Computed)	12.100 hours
Flow (Peak, Computed)	2.32 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	2.32 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.580 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.6 in
Runoff Volume (Pervious)	0.172 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.172 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.048 hours
Computational Time Increment	0.006 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA31 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	13.82 ft³/s
Unit peak time, Tp	0.032 hours
Unit receding limb, Tr	0.127 hours
Total unit time, Tb	0.158 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA31 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.048 hours	
Area (User Defined)	0.580 acres	

Computational Time	
Increment	0.006 hours
Time to Peak (Computed)	12.100 hours
Flow (Peak, Computed)	3.73 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	3.73 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.580 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.8 in
Runoff Volume (Pervious)	0.282 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.282 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.048 hours
Computational Time Increment	0.006 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA31 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	13.82 ft³/s
Unit peak time, Tp	0.032 hours
Unit receding limb, Tr	0.127 hours
Total unit time, Tb	0.158 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA31 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.048 hours
Area (User Defined)	0.580 acres

Computational Time Increment	0.006 hours
Time to Peak (Computed)	12.100 hours
Flow (Peak, Computed)	6.94 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	6.94 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.580 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.1 in
Runoff Volume (Pervious)	0.537 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.537 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.048 hours
Computational Time Increment	0.006 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA31 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	13.82 ft³/s
Unit peak time, Tp	0.032 hours
Unit receding limb, Tr	0.127 hours
Total unit time, Tb	0.158 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA31 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.083 hours
Area (User Defined)	0.270 acres

Computational Time Increment	0.011 hours
Time to Peak (Computed)	12.107 hours
Flow (Peak, Computed)	1.04 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	1.03 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.270 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.7 in
Runoff Volume (Pervious)	0.082 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.082 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.083 hours
Computational Time Increment	0.011 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA31 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.67 ft³/s
Unit peak time, Tp	0.056 hours
Unit receding limb, Tr	0.222 hours
Total unit time, Tb	0.278 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA31 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.083 hours	
Area (User Defined)	0.270 acres	

Computational Time		0.011 hours
Increment	12.107 hours	
Time to Peak (Computed)	1.65 ft³/s	
Flow (Peak, Computed)	0.050 hours	
Output Increment	12.100 hours	
Time to Flow (Peak Interpolated Output)	1.64 ft³/s	
Flow (Peak Interpolated Output)		

Drainage Area		
SCS CN (Composite)	98.000	
Area (User Defined)	0.270 acres	
Maximum Retention (Previous)	0.2 in	
Maximum Retention (Previous, 20 percent)	0.0 in	

Cumulative Runoff		
Cumulative Runoff Depth (Previous)	6.0 in	
Runoff Volume (Previous)	0.134 ac-ft	

Hydrograph Volume (Area under Hydrograph curve)		
Volume	0.134 ac-ft	

SCS Unit Hydrograph Parameters		
Time of Concentration (Composite)	0.083 hours	
Computational Time Increment	0.011 hours	
Unit Hydrograph Shape Factor	483.432	
K Factor	0.749	

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA31 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters		
Receding/Rising, Tr/Tp	1.670	
Unit peak, qp	3.67 ft³/s	
Unit peak time, Tp	0.056 hours	
Unit receding limb, Tr	0.222 hours	
Total unit time, Tb	0.278 hours	

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA31 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.083 hours
Area (User Defined)	0.270 acres

Computational Time Increment	0.011 hours
Time to Peak (Computed)	12.107 hours
Flow (Peak, Computed)	3.07 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	3.04 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.270 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.2 in
Runoff Volume (Pervious)	0.253 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.253 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.083 hours
Computational Time Increment	0.011 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA31 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.67 ft³/s
Unit peak time, Tp	0.056 hours
Unit receding limb, Tr	0.222 hours
Total unit time, Tb	0.278 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA32 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.030 hours
Area (User Defined)	2.280 acres

Computational Time Increment	0.004 hours
Time to Peak (Computed)	12.100 hours
Flow (Peak, Computed)	9.21 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	9.20 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	2.280 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.6 in
Runoff Volume (Pervious)	0.675 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.675 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.030 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA32 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	86.08 ft³/s
Unit peak time, Tp	0.020 hours
Unit receding limb, Tr	0.080 hours
Total unit time, Tb	0.100 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA32 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.030 hours	
Area (User Defined)	2.280 acres	

Computational Time	
Increment	0.004 hours
Time to Peak (Computed)	12.100 hours
Flow (Peak, Computed)	14.75 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	14.75 ft ³ /s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	2.280 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.8 in
Runoff Volume (Pervious)	1.108 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1.109 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.030 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA32 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	86.08 ft ³ /s
Unit peak time, Tp	0.020 hours
Unit receding limb, Tr	0.080 hours
Total unit time, Tb	0.100 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA32 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.030 hours
Area (User Defined)	2.280 acres

Computational Time Increment	0.004 hours
Time to Peak (Computed)	12.100 hours
Flow (Peak, Computed)	27.46 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	27.46 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	2.280 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.1 in
Runoff Volume (Pervious)	2.110 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	2.110 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.030 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA32 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	86.08 ft³/s
Unit peak time, Tp	0.020 hours
Unit receding limb, Tr	0.080 hours
Total unit time, Tb	0.100 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA32 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.030 hours
Area (User Defined)	0.220 acres

Computational Time	
Increment	0.004 hours
Time to Peak (Computed)	12.104 hours
Flow (Peak, Computed)	0.21 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.21 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.220 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	0.014 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.014 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.030 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA32 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	8.31 ft³/s
Unit peak time, Tp	0.020 hours
Unit receding limb, Tr	0.080 hours
Total unit time, Tb	0.100 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA32 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.030 hours	
Area (User Defined)	0.220 acres	

Computational Time	
Increment	0.004 hours
Time to Peak (Computed)	12.100 hours
Flow (Peak, Computed)	0.64 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.64 ft ³ /s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.220 acres
Maximum Retention (Previous)	6.4 in
Maximum Retention (Previous, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Previous)	2.1 in
Runoff Volume (Previous)	0.039 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.039 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.030 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA32 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	8.31 ft ³ /s
Unit peak time, Tp	0.020 hours
Unit receding limb, Tr	0.080 hours
Total unit time, Tb	0.100 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA32 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.030 hours
Area (User Defined)	0.220 acres

Computational Time	
Increment	0.004 hours
Time to Peak (Computed)	12.100 hours
Flow (Peak, Computed)	1.84 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	1.84 ft ³ /s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.220 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	0.115 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.115 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.030 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA32 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	8.31 ft ³ /s
Unit peak time, Tp	0.020 hours
Unit receding limb, Tr	0.080 hours
Total unit time, Tb	0.100 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA33 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.033 hours
Area (User Defined)	0.340 acres

Computational Time	
Increment	0.004 hours
Time to Peak (Computed)	12.097 hours
Flow (Peak, Computed)	1.38 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	1.38 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.340 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.7 in
Runoff Volume (Pervious)	0.104 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.104 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.033 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA33 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	11.84 ft³/s
Unit peak time, Tp	0.022 hours
Unit receding limb, Tr	0.087 hours
Total unit time, Tb	0.108 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA33 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.033 hours	
Area (User Defined)	0.340 acres	

Computational Time	
Increment	0.004 hours
Time to Peak (Computed)	12.097 hours
Flow (Peak, Computed)	2.21 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	2.20 ft ³ /s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.340 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.0 in
Runoff Volume (Pervious)	0.169 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.169 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.033 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA33 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	11.84 ft ³ /s
Unit peak time, Tp	0.022 hours
Unit receding limb, Tr	0.087 hours
Total unit time, Tb	0.108 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA33 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.033 hours
Area (User Defined)	0.340 acres

Computational Time	
Increment	0.004 hours
Time to Peak (Computed)	12.097 hours
Flow (Peak, Computed)	4.10 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	4.09 ft ³ /s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.340 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.2 in
Runoff Volume (Pervious)	0.318 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.318 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.033 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA33 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	11.84 ft ³ /s
Unit peak time, Tp	0.022 hours
Unit receding limb, Tr	0.087 hours
Total unit time, Tb	0.108 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA33 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.033 hours
Area (User Defined)	0.090 acres

Computational Time Increment	0.004 hours
Time to Peak (Computed)	12.102 hours
Flow (Peak, Computed)	0.09 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.08 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.090 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	0.006 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.006 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.033 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA33 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.13 ft³/s
Unit peak time, Tp	0.022 hours
Unit receding limb, Tr	0.087 hours
Total unit time, Tb	0.108 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA33 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.033 hours	
Area (User Defined)	0.090 acres	

Computational Time	
Increment	0.004 hours
Time to Peak (Computed)	12.102 hours
Flow (Peak, Computed)	0.26 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.26 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.090 acres
Maximum Retention (Previous)	6.4 in
Maximum Retention (Previous, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Previous)	2.1 in
Runoff Volume (Previous)	0.016 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.016 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.033 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA33 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.13 ft³/s
Unit peak time, Tp	0.022 hours
Unit receding limb, Tr	0.087 hours
Total unit time, Tb	0.108 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA33 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.033 hours
Area (User Defined)	0.090 acres

Computational Time Increment	0.004 hours
Time to Peak (Computed)	12.102 hours
Flow (Peak, Computed)	0.75 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.75 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.090 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	0.047 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.047 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.033 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA33 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.13 ft³/s
Unit peak time, Tp	0.022 hours
Unit receding limb, Tr	0.087 hours
Total unit time, Tb	0.108 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA34 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event		2yr Projected NOAA D
Return Event	2 years	
Duration	48,000 hours	
Depth	3.9 in	
Time of Concentration (Composite)	0.037 hours	
Area (User Defined)	0.350 acres	

Computational Time		0.005 hours
Increment	12,099 hours	
Time to Peak (Computed)	1.41 ft³/s	
Flow (Peak, Computed)	0.050 hours	
Output Increment	12,100 hours	
Time to Flow (Peak Interpolated Output)	1.41 ft³/s	
Flow (Peak Interpolated Output)		

Drainage Area		
SCS CN (Composite)	97,000	
Area (User Defined)	0.350 acres	
Maximum Retention (Pervious)	0.3 in	
Maximum Retention (Pervious, 20 percent)	0.1 in	

Cumulative Runoff		
Cumulative Runoff Depth (Pervious)	3.6 in	
Runoff Volume (Pervious)	0.104 ac-ft	

Hydrograph Volume (Area under Hydrograph curve)		
Volume	0.104 ac-ft	

SCS Unit Hydrograph Parameters		
Time of Concentration (Composite)	0.037 hours	
Computational Time Increment	0.005 hours	
Unit Hydrograph Shape Factor	483.432	
K Factor	0.749	

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA34 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters		
Receding/Rising, Tr/Tp	1.670	
Unit peak, qp	10.59 ft³/s	
Unit peak time, Tp	0.025 hours	
Unit receding limb, Tr	0.100 hours	
Total unit time, Tb	0.125 hours	

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA34 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.037 hours	
Area (User Defined)	0.350 acres	

Computational Time	
Increment	0.005 hours
Time to Peak (Computed)	12.099 hours
Flow (Peak, Computed)	2.26 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	2.26 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.350 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.8 in
Runoff Volume (Pervious)	0.170 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.170 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.037 hours
Computational Time Increment	0.005 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA34 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	10.59 ft³/s
Unit peak time, Tp	0.025 hours
Unit receding limb, Tr	0.100 hours
Total unit time, Tb	0.125 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA34 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.037 hours
Area (User Defined)	0.350 acres

Computational Time Increment	0.005 hours
Time to Peak (Computed)	12.099 hours
Flow (Peak, Computed)	4.21 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	4.20 ft ³ /s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.350 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.1 in
Runoff Volume (Pervious)	0.324 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.324 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.037 hours
Computational Time Increment	0.005 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA34 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	10.59 ft ³ /s
Unit peak time, Tp	0.025 hours
Unit receding limb, Tr	0.100 hours
Total unit time, Tb	0.125 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA34 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.037 hours
Area (User Defined)	0.130 acres

Computational Time	
Increment	0.005 hours
Time to Peak (Computed)	12.104 hours
Flow (Peak, Computed)	0.12 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.12 ft ³ /s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.130 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	0.008 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.008 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.037 hours
Computational Time Increment	0.005 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA34 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.93 ft ³ /s
Unit peak time, Tp	0.025 hours
Unit receding limb, Tr	0.100 hours
Total unit time, Tb	0.125 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA34 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	
10yr Projected NOAA D	
Return Event	10 years
Duration	48,000 hours
Depth	6.2 in
Time of Concentration (Composite)	0.037 hours
Area (User Defined)	0.130 acres

Computational Time	
Increment	0.005 hours
Time to Peak (Computed)	12.104 hours
Flow (Peak, Computed)	0.37 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.37 ft ³ /s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.130 acres
Maximum Retention (Previous)	6.4 in
Maximum Retention (Previous, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Previous)	2.1 in
Runoff Volume (Previous)	0.023 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.023 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.037 hours
Computational Time Increment	0.005 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA34 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.93 ft ³ /s
Unit peak time, Tp	0.025 hours
Unit receding limb, Tr	0.100 hours
Total unit time, Tb	0.125 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA34 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.037 hours
Area (User Defined)	0.130 acres

Computational Time Increment	0.005 hours
Time to Peak (Computed)	12.099 hours
Flow (Peak, Computed)	1.08 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	1.08 ft ³ /s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.130 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	0.068 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.068 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.037 hours
Computational Time Increment	0.005 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA34 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.93 ft ³ /s
Unit peak time, Tp	0.025 hours
Unit receding limb, Tr	0.100 hours
Total unit time, Tb	0.125 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA35 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.045 hours
Area (User Defined)	0.200 acres

Computational Time Increment	0.006 hours
Time to Peak (Computed)	12.098 hours
Flow (Peak, Computed)	0.81 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.81 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.200 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.7 in
Runoff Volume (Pervious)	0.061 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.061 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.045 hours
Computational Time Increment	0.006 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA35 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	4.99 ft³/s
Unit peak time, Tp	0.030 hours
Unit receding limb, Tr	0.121 hours
Total unit time, Tb	0.151 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA35 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.045 hours	
Area (User Defined)	0.200 acres	

Computational Time	
Increment	0.006 hours
Time to Peak (Computed)	12.098 hours
Flow (Peak, Computed)	1.29 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	1.29 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.200 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.0 in
Runoff Volume (Pervious)	0.099 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.099 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.045 hours
Computational Time Increment	0.006 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA35 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	4.99 ft³/s
Unit peak time, Tp	0.030 hours
Unit receding limb, Tr	0.121 hours
Total unit time, Tb	0.151 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA35 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.045 hours
Area (User Defined)	0.200 acres

Computational Time Increment	0.006 hours
Time to Peak (Computed)	12.098 hours
Flow (Peak, Computed)	2.40 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	2.39 ft ³ /s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.200 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.2 in
Runoff Volume (Pervious)	0.187 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.187 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.045 hours
Computational Time Increment	0.006 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA35 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	4.99 ft ³ /s
Unit peak time, Tp	0.030 hours
Unit receding limb, Tr	0.121 hours
Total unit time, Tb	0.151 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA35 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.079 hours
Area (User Defined)	0.780 acres

Computational Time Increment	0.011 hours
Time to Peak (Computed)	12.120 hours
Flow (Peak, Computed)	0.64 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.61 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.780 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	0.050 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.050 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.079 hours
Computational Time Increment	0.011 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA35 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	11.21 ft³/s
Unit peak time, Tp	0.053 hours
Unit receding limb, Tr	0.210 hours
Total unit time, Tb	0.263 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA35 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.079 hours	
Area (User Defined)	0.780 acres	

Computational Time		0.011 hours
Increment	12,120 hours	
Time to Peak (Computed)	2.03 ft³/s	
Flow (Peak, Computed)	0.050 hours	
Output Increment	12,100 hours	
Time to Flow (Peak Interpolated Output)	1.99 ft³/s	
Flow (Peak Interpolated Output)		

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.780 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	0.139 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.139 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.079 hours
Computational Time Increment	0.011 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA35 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	11.21 ft³/s
Unit peak time, Tp	0.053 hours
Unit receding limb, Tr	0.210 hours
Total unit time, Tb	0.263 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA35 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.079 hours
Area (User Defined)	0.780 acres

Computational Time Increment	0.011 hours
Time to Peak (Computed)	12.109 hours
Flow (Peak, Computed)	6.04 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	5.95 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.780 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	0.407 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.407 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.079 hours
Computational Time Increment	0.011 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA35 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	11.21 ft³/s
Unit peak time, Tp	0.053 hours
Unit receding limb, Tr	0.210 hours
Total unit time, Tb	0.263 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA36 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.025 hours
Area (User Defined)	0.510 acres

Computational Time Increment	0.003 hours
Time to Peak (Computed)	12.100 hours
Flow (Peak, Computed)	2.08 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	2.08 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.510 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.7 in
Runoff Volume (Pervious)	0.156 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.156 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.025 hours
Computational Time Increment	0.003 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA36 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	22.92 ft³/s
Unit peak time, Tp	0.017 hours
Unit receding limb, Tr	0.067 hours
Total unit time, Tb	0.084 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA36 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.025 hours	
Area (User Defined)	0.510 acres	

Computational Time	
Increment	0.003 hours
Time to Peak (Computed)	12.100 hours
Flow (Peak, Computed)	3.31 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	3.31 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.510 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.0 in
Runoff Volume (Pervious)	0.253 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.253 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.025 hours
Computational Time Increment	0.003 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA36 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	22.92 ft³/s
Unit peak time, Tp	0.017 hours
Unit receding limb, Tr	0.067 hours
Total unit time, Tb	0.084 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA36 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.025 hours
Area (User Defined)	0.510 acres

Computational Time Increment	0.003 hours
Time to Peak (Computed)	12.100 hours
Flow (Peak, Computed)	6.15 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	6.14 ft ³ /s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.510 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.2 in
Runoff Volume (Pervious)	0.477 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.477 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.025 hours
Computational Time Increment	0.003 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA36 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	22.92 ft ³ /s
Unit peak time, Tp	0.017 hours
Unit receding limb, Tr	0.067 hours
Total unit time, Tb	0.084 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA36 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event		2yr Projected NOAA D
Return Event	2 years	
Duration	48,000 hours	
Depth	3.9 in	
Time of Concentration (Composite)	0.029 hours	
Area (User Defined)	0.760 acres	

Computational Time		0.004 hours
Increment	12.101 hours	
Time to Peak (Computed)	1.16 ft³/s	
Flow (Peak, Computed)	0.050 hours	
Output Increment	12.100 hours	
Time to Flow (Peak Interpolated Output)	1.16 ft³/s	
Flow (Peak Interpolated Output)		

Drainage Area	
SCS CN (Composite)	68.000
Area (User Defined)	0.760 acres
Maximum Retention (Pervious)	4.7 in
Maximum Retention (Pervious, 20 percent)	0.9 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.1 in
Runoff Volume (Pervious)	0.072 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.073 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.029 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA36 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	29.36 ft³/s
Unit peak time, Tp	0.020 hours
Unit receding limb, Tr	0.078 hours
Total unit time, Tb	0.098 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA36 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.029 hours	
Area (User Defined)	0.760 acres	

Computational Time	
Increment	0.004 hours
Time to Peak (Computed)	12.101 hours
Flow (Peak, Computed)	2.85 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	2.85 ft ³ /s

Drainage Area	
SCS CN (Composite)	68.000
Area (User Defined)	0.760 acres
Maximum Retention (Pervious)	4.7 in
Maximum Retention (Pervious, 20 percent)	0.9 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.8 in
Runoff Volume (Pervious)	0.175 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.176 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.029 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA36 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	29.36 ft ³ /s
Unit peak time, Tp	0.020 hours
Unit receding limb, Tr	0.078 hours
Total unit time, Tb	0.098 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA36 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.029 hours
Area (User Defined)	0.760 acres

Computational Time Increment	0.004 hours
Time to Peak (Computed)	12.101 hours
Flow (Peak, Computed)	7.20 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	7.20 ft ³ /s

Drainage Area	
SCS CN (Composite)	68.000
Area (User Defined)	0.760 acres
Maximum Retention (Pervious)	4.7 in
Maximum Retention (Pervious, 20 percent)	0.9 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	7.3 in
Runoff Volume (Pervious)	0.461 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.461 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.029 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA36 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	29.36 ft ³ /s
Unit peak time, Tp	0.020 hours
Unit receding limb, Tr	0.078 hours
Total unit time, Tb	0.098 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA37 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.031 hours
Area (User Defined)	0.350 acres

Computational Time	
Increment	0.004 hours
Time to Peak (Computed)	12.096 hours
Flow (Peak, Computed)	1.41 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	1.41 ft ³ /s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.350 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.6 in
Runoff Volume (Pervious)	0.104 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.104 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.031 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA37 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	12.68 ft ³ /s
Unit peak time, Tp	0.021 hours
Unit receding limb, Tr	0.083 hours
Total unit time, Tb	0.104 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA37 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.031 hours	
Area (User Defined)	0.350 acres	

Computational Time	
Increment	0.004 hours
Time to Peak (Computed)	12.096 hours
Flow (Peak, Computed)	2.26 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	2.26 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.350 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.8 in
Runoff Volume (Pervious)	0.170 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.170 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.031 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA37 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	12.68 ft³/s
Unit peak time, Tp	0.021 hours
Unit receding limb, Tr	0.083 hours
Total unit time, Tb	0.104 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA37 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.031 hours
Area (User Defined)	0.350 acres

Computational Time Increment	0.004 hours
Time to Peak (Computed)	12.096 hours
Flow (Peak, Computed)	4.22 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	4.21 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.350 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.1 in
Runoff Volume (Pervious)	0.324 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.324 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.031 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA37 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	12.68 ft³/s
Unit peak time, Tp	0.021 hours
Unit receding limb, Tr	0.083 hours
Total unit time, Tb	0.104 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA37 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.104 hours
Area (User Defined)	0.180 acres

Computational Time Increment	0.014 hours
Time to Peak (Computed)	12.136 hours
Flow (Peak, Computed)	0.14 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.150 hours
Flow (Peak Interpolated Output)	0.13 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.180 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	0.011 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.011 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.104 hours
Computational Time Increment	0.014 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA37 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.95 ft³/s
Unit peak time, Tp	0.070 hours
Unit receding limb, Tr	0.278 hours
Total unit time, Tb	0.348 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA37 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.104 hours	
Area (User Defined)	0.180 acres	

Computational Time	
Increment	0.014 hours
Time to Peak (Computed)	12.122 hours
Flow (Peak, Computed)	0.44 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.41 ft ³ /s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.180 acres
Maximum Retention (Previous)	6.4 in
Maximum Retention (Previous, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Previous)	2.1 in
Runoff Volume (Previous)	0.032 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.032 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.104 hours
Computational Time Increment	0.014 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA37 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, T _r /T _p	1.670
Unit peak, q _p	1.95 ft ³ /s
Unit peak time, T _p	0.070 hours
Unit receding limb, T _r	0.278 hours
Total unit time, T _b	0.348 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA37 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.104 hours
Area (User Defined)	0.180 acres

Computational Time Increment	0.014 hours
Time to Peak (Computed)	12.122 hours
Flow (Peak, Computed)	1.31 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	1.26 ft ³ /s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.180 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	0.094 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.094 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.104 hours
Computational Time Increment	0.014 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA37 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.95 ft ³ /s
Unit peak time, Tp	0.070 hours
Unit receding limb, Tr	0.278 hours
Total unit time, Tb	0.348 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA4 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.020 hours
Area (User Defined)	0.860 acres

Computational Time Increment	0.003 hours
Time to Peak (Computed)	12.099 hours
Flow (Peak, Computed)	3.43 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	3.43 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.860 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.4 in
Runoff Volume (Pervious)	0.247 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.247 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.020 hours
Computational Time Increment	0.003 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA4 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	48.72 ft³/s
Unit peak time, Tp	0.013 hours
Unit receding limb, Tr	0.053 hours
Total unit time, Tb	0.067 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA4 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.020 hours	
Area (User Defined)	0.860 acres	

Computational Time	
Increment	0.003 hours
Time to Peak (Computed)	12.099 hours
Flow (Peak, Computed)	5.54 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	5.52 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.860 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.7 in
Runoff Volume (Pervious)	0.410 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.410 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.020 hours
Computational Time Increment	0.003 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA4 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	48.72 ft³/s
Unit peak time, Tp	0.013 hours
Unit receding limb, Tr	0.053 hours
Total unit time, Tb	0.067 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA4 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.020 hours
Area (User Defined)	0.860 acres

Computational Time Increment	0.003 hours
Time to Peak (Computed)	12.099 hours
Flow (Peak, Computed)	10.34 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	10.32 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.860 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.0 in
Runoff Volume (Pervious)	0.787 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.787 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.020 hours
Computational Time Increment	0.003 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA4 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	48.72 ft³/s
Unit peak time, Tp	0.013 hours
Unit receding limb, Tr	0.053 hours
Total unit time, Tb	0.067 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA4 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.020 hours
Area (User Defined)	0.150 acres

Computational Time Increment	0.003 hours
Time to Peak (Computed)	12.101 hours
Flow (Peak, Computed)	0.15 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.15 ft ³ /s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.150 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	0.010 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.010 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.020 hours
Computational Time Increment	0.003 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA4 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	8.50 ft ³ /s
Unit peak time, Tp	0.013 hours
Unit receding limb, Tr	0.053 hours
Total unit time, Tb	0.067 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA4 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.020 hours	
Area (User Defined)	0.150 acres	

Computational Time		0.003 hours
Increment	12,099 hours	
Time to Peak (Computed)	0.44 ft³/s	
Flow (Peak, Computed)	0.050 hours	
Output Increment	12,100 hours	
Time to Flow (Peak Interpolated Output)	0.44 ft³/s	
Flow (Peak Interpolated Output)		

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.150 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	0.027 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.027 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.020 hours
Computational Time Increment	0.003 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA4 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters		1.670
Receding/Rising, Tr/Tp	Unit peak, qp	8.50 ft³/s
Unit peak time, Tp	Unit receding limb, Tr	0.013 hours
Unit receding limb, Tr	Total unit time, Tb	0.053 hours
Total unit time, Tb		0.067 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA4 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.020 hours
Area (User Defined)	0.150 acres

Computational Time Increment	0.003 hours
Time to Peak (Computed)	12.099 hours
Flow (Peak, Computed)	1.26 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	1.26 ft ³ /s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.150 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	0.078 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.079 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.020 hours
Computational Time Increment	0.003 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA4 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	8.50 ft ³ /s
Unit peak time, Tp	0.013 hours
Unit receding limb, Tr	0.053 hours
Total unit time, Tb	0.067 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA41 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.020 hours
Area (User Defined)	0.170 acres

Computational Time Increment	0.003 hours
Time to Peak (Computed)	12.099 hours
Flow (Peak, Computed)	0.68 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.68 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.170 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.4 in
Runoff Volume (Pervious)	0.049 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.049 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.020 hours
Computational Time Increment	0.003 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA41 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	9.63 ft³/s
Unit peak time, Tp	0.013 hours
Unit receding limb, Tr	0.053 hours
Total unit time, Tb	0.067 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA41 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.020 hours	
Area (User Defined)	0.170 acres	

Computational Time		0.003 hours
Increment	12,099 hours	
Time to Peak (Computed)	1.09 ft³/s	
Flow (Peak, Computed)	0.050 hours	
Output Increment	12,100 hours	
Time to Flow (Peak Interpolated Output)	1.09 ft³/s	
Flow (Peak Interpolated Output)		

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.170 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.7 in
Runoff Volume (Pervious)	0.081 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.081 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.020 hours
Computational Time Increment	0.003 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA41 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters		1.670
Receding/Rising, Tr/Tp	Unit peak, qp	9.63 ft³/s
Unit peak time, Tp	Unit receding limb, Tr	0.013 hours
Unit receding limb, Tr	Total unit time, Tb	0.053 hours
Total unit time, Tb		0.067 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA41 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.020 hours
Area (User Defined)	0.170 acres

Computational Time Increment	0.003 hours
Time to Peak (Computed)	12.099 hours
Flow (Peak, Computed)	2.04 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	2.04 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.170 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.0 in
Runoff Volume (Pervious)	0.156 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.156 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.020 hours
Computational Time Increment	0.003 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA41 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	9.63 ft³/s
Unit peak time, Tp	0.013 hours
Unit receding limb, Tr	0.053 hours
Total unit time, Tb	0.067 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA41 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.020 hours
Area (User Defined)	0.020 acres

Computational Time	
Increment	0.003 hours
Time to Peak (Computed)	12.101 hours
Flow (Peak, Computed)	0.02 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.02 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.020 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	0.001 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.001 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.020 hours
Computational Time Increment	0.003 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA41 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.13 ft³/s
Unit peak time, Tp	0.013 hours
Unit receding limb, Tr	0.053 hours
Total unit time, Tb	0.067 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA41 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.020 hours	
Area (User Defined)	0.020 acres	

Computational Time		0.003 hours
Increment	12,099 hours	
Time to Peak (Computed)	0.06 ft³/s	
Flow (Peak, Computed)	0.050 hours	
Output Increment	12,100 hours	
Time to Flow (Peak Interpolated Output)	0.06 ft³/s	
Flow (Peak Interpolated Output)		

Drainage Area		
SCS CN (Composite)	61.000	
Area (User Defined)	0.020 acres	
Maximum Retention (Pervious)	6.4 in	
Maximum Retention (Pervious, 20 percent)	1.3 in	

Cumulative Runoff		
Cumulative Runoff Depth (Pervious)	2.1 in	
Runoff Volume (Pervious)	0.004 ac-ft	

Hydrograph Volume (Area under Hydrograph curve)		
Volume	0.004 ac-ft	

SCS Unit Hydrograph Parameters		
Time of Concentration (Composite)	0.020 hours	
Computational Time Increment	0.003 hours	
Unit Hydrograph Shape Factor	483.432	
K Factor	0.749	

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA41 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters		1.670
Receding/Rising, Tr/Tp	1.13 ft³/s	
Unit peak, qp	0.013 hours	
Unit peak time, Tp	0.053 hours	
Unit receding limb, Tr	0.067 hours	
Total unit time, Tb		

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA41 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.020 hours
Area (User Defined)	0.020 acres

Computational Time Increment	0.003 hours
Time to Peak (Computed)	12.099 hours
Flow (Peak, Computed)	0.17 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.17 ft ³ /s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.020 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	0.010 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.010 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.020 hours
Computational Time Increment	0.003 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA41 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.13 ft ³ /s
Unit peak time, Tp	0.013 hours
Unit receding limb, Tr	0.053 hours
Total unit time, Tb	0.067 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA42 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event		2yr Projected NOAA D
Return Event	2 years	
Duration	48,000 hours	
Depth	3.9 in	
Time of Concentration (Composite)	0.028 hours	
Area (User Defined)	0.560 acres	

Computational Time		0.004 hours
Increment	12.100 hours	
Time to Peak (Computed)	2.17 ft³/s	
Flow (Peak, Computed)	0.050 hours	
Output Increment	12.100 hours	
Time to Flow (Peak Interpolated Output)	2.17 ft³/s	
Flow (Peak Interpolated Output)		

Drainage Area	
SCS CN (Composite)	94.000
Area (User Defined)	0.560 acres
Maximum Retention (Pervious)	0.6 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.2 in
Runoff Volume (Pervious)	0.151 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.151 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.028 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA42 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	22.37 ft³/s
Unit peak time, Tp	0.019 hours
Unit receding limb, Tr	0.076 hours
Total unit time, Tb	0.095 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA42 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.028 hours	
Area (User Defined)	0.560 acres	
Computational Time Increment	0.004 hours	
Time to Peak (Computed)	12.100 hours	
Flow (Peak, Computed)	3.55 ft³/s	
Output Increment	0.050 hours	
Time to Flow (Peak Interpolated Output)	12.100 hours	
Flow (Peak Interpolated Output)	3.55 ft³/s	

Drainage Area	
SCS CN (Composite)	94.000
Area (User Defined)	0.560 acres
Maximum Retention (Pervious)	0.6 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.5 in
Runoff Volume (Pervious)	0.256 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.256 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.028 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA42 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	22.37 ft³/s
Unit peak time, Tp	0.019 hours
Unit receding limb, Tr	0.076 hours
Total unit time, Tb	0.095 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA42 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.028 hours
Area (User Defined)	0.560 acres

Computational Time Increment	0.004 hours
Time to Peak (Computed)	12.100 hours
Flow (Peak, Computed)	6.70 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	6.70 ft³/s

Drainage Area	
SCS CN (Composite)	94.000
Area (User Defined)	0.560 acres
Maximum Retention (Pervious)	0.6 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	10.7 in
Runoff Volume (Pervious)	0.501 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.501 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.028 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA42 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	22.37 ft³/s
Unit peak time, Tp	0.019 hours
Unit receding limb, Tr	0.076 hours
Total unit time, Tb	0.095 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA42 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.028 hours
Area (User Defined)	0.220 acres

Computational Time	
Increment	0.004 hours
Time to Peak (Computed)	12.103 hours
Flow (Peak, Computed)	0.21 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.21 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.220 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	0.014 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.014 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.028 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA42 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	8.79 ft³/s
Unit peak time, Tp	0.019 hours
Unit receding limb, Tr	0.076 hours
Total unit time, Tb	0.095 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA42 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.028 hours	
Area (User Defined)	0.220 acres	

Computational Time	
Increment	0.004 hours
Time to Peak (Computed)	12.100 hours
Flow (Peak, Computed)	0.64 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.64 ft ³ /s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.220 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	0.039 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.039 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.028 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA42 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	8.79 ft ³ /s
Unit peak time, Tp	0.019 hours
Unit receding limb, Tr	0.076 hours
Total unit time, Tb	0.095 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA42 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.028 hours
Area (User Defined)	0.220 acres

Computational Time	
Increment	0.004 hours
Time to Peak (Computed)	12.100 hours
Flow (Peak, Computed)	1.84 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	1.84 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.220 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	0.115 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.115 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.028 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA42 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	8.79 ft³/s
Unit peak time, Tp	0.019 hours
Unit receding limb, Tr	0.076 hours
Total unit time, Tb	0.095 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA43 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.020 hours
Area (User Defined)	0.130 acres

Computational Time	
Increment	0.003 hours
Time to Peak (Computed)	12.099 hours
Flow (Peak, Computed)	0.53 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.53 ft ³ /s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.130 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.7 in
Runoff Volume (Pervious)	0.040 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.040 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.020 hours
Computational Time Increment	0.003 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA43 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	7.36 ft ³ /s
Unit peak time, Tp	0.013 hours
Unit receding limb, Tr	0.053 hours
Total unit time, Tb	0.067 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA43 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.020 hours	
Area (User Defined)	0.130 acres	

Computational Time	
Increment	0.003 hours
Time to Peak (Computed)	12.099 hours
Flow (Peak, Computed)	0.84 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.84 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.130 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.0 in
Runoff Volume (Pervious)	0.064 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.064 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.020 hours
Computational Time Increment	0.003 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA43 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	7.36 ft³/s
Unit peak time, Tp	0.013 hours
Unit receding limb, Tr	0.053 hours
Total unit time, Tb	0.067 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA43 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.020 hours
Area (User Defined)	0.130 acres

Computational Time	
Increment	0.003 hours
Time to Peak (Computed)	12.099 hours
Flow (Peak, Computed)	1.57 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.050 hours
Flow (Peak Interpolated Output)	1.56 ft ³ /s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.130 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.2 in
Runoff Volume (Pervious)	0.122 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.122 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.020 hours
Computational Time Increment	0.003 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA43 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	7.36 ft ³ /s
Unit peak time, Tp	0.013 hours
Unit receding limb, Tr	0.053 hours
Total unit time, Tb	0.067 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA43 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.089 hours
Area (User Defined)	0.160 acres

Computational Time Increment	0.012 hours
Time to Peak (Computed)	12.119 hours
Flow (Peak, Computed)	0.21 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.20 ft³/s

Drainage Area	
SCS CN (Composite)	68.000
Area (User Defined)	0.160 acres
Maximum Retention (Pervious)	4.7 in
Maximum Retention (Pervious, 20 percent)	0.9 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.1 in
Runoff Volume (Pervious)	0.015 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.015 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.089 hours
Computational Time Increment	0.012 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA43 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	2.03 ft³/s
Unit peak time, Tp	0.060 hours
Unit receding limb, Tr	0.239 hours
Total unit time, Tb	0.298 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA43 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	
10yr Projected NOAA D	
Return Event	10 years
Duration	48,000 hours
Depth	6.2 in
Time of Concentration (Composite)	0.089 hours
Area (User Defined)	0.160 acres

Computational Time Increment	0.012 hours
Time to Peak (Computed)	12.119 hours
Flow (Peak, Computed)	0.54 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.52 ft³/s

Drainage Area	
SCS CN (Composite)	68.000
Area (User Defined)	0.160 acres
Maximum Retention (Previous)	4.7 in
Maximum Retention (Previous, 20 percent)	0.9 in

Cumulative Runoff	
Cumulative Runoff Depth (Previous)	2.8 in
Runoff Volume (Previous)	0.037 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.037 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.089 hours
Computational Time Increment	0.012 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA43 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	2.03 ft³/s
Unit peak time, Tp	0.060 hours
Unit receding limb, Tr	0.239 hours
Total unit time, Tb	0.298 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA43 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.089 hours
Area (User Defined)	0.160 acres

Computational Time Increment	0.012 hours
Time to Peak (Computed)	12.119 hours
Flow (Peak, Computed)	1.38 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	1.36 ft ³ /s

Drainage Area	
SCS CN (Composite)	68.000
Area (User Defined)	0.160 acres
Maximum Retention (Pervious)	4.7 in
Maximum Retention (Pervious, 20 percent)	0.9 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	7.3 in
Runoff Volume (Pervious)	0.097 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.097 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.089 hours
Computational Time Increment	0.012 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA43 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	2.03 ft ³ /s
Unit peak time, Tp	0.060 hours
Unit receding limb, Tr	0.239 hours
Total unit time, Tb	0.298 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA44 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.021 hours
Area (User Defined)	0.210 acres

Computational Time Increment	0.003 hours
Time to Peak (Computed)	12.100 hours
Flow (Peak, Computed)	0.75 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.75 ft ³ /s

Drainage Area	
SCS CN (Composite)	90.000
Area (User Defined)	0.210 acres
Maximum Retention (Pervious)	1.1 in
Maximum Retention (Pervious, 20 percent)	0.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.8 in
Runoff Volume (Pervious)	0.049 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.049 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.021 hours
Computational Time Increment	0.003 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA44 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	11.25 ft ³ /s
Unit peak time, Tp	0.014 hours
Unit receding limb, Tr	0.056 hours
Total unit time, Tb	0.071 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA44 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.021 hours	
Area (User Defined)	0.210 acres	

Computational Time	
Increment	0.003 hours
Time to Peak (Computed)	12.097 hours
Flow (Peak, Computed)	1.28 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	1.28 ft³/s

Drainage Area	
SCS CN (Composite)	90.000
Area (User Defined)	0.210 acres
Maximum Retention (Pervious)	1.1 in
Maximum Retention (Pervious, 20 percent)	0.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.0 in
Runoff Volume (Pervious)	0.088 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.088 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.021 hours
Computational Time Increment	0.003 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA44 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	11.25 ft³/s
Unit peak time, Tp	0.014 hours
Unit receding limb, Tr	0.056 hours
Total unit time, Tb	0.071 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA44 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.021 hours
Area (User Defined)	0.210 acres

Computational Time	
Increment	0.003 hours
Time to Peak (Computed)	12.097 hours
Flow (Peak, Computed)	2.48 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	2.48 ft ³ /s

Drainage Area	
SCS CN (Composite)	90.000
Area (User Defined)	0.210 acres
Maximum Retention (Pervious)	1.1 in
Maximum Retention (Pervious, 20 percent)	0.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	10.2 in
Runoff Volume (Pervious)	0.179 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.179 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.021 hours
Computational Time Increment	0.003 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA44 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	11.25 ft ³ /s
Unit peak time, Tp	0.014 hours
Unit receding limb, Tr	0.056 hours
Total unit time, Tb	0.071 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA44 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event		2yr Projected NOAA D
Return Event	2 years	
Duration	48,000 hours	
Depth	3.9 in	
Time of Concentration (Composite)	0.021 hours	
Area (User Defined)	0.030 acres	
Computational Time Increment	0.003 hours	
Time to Peak (Computed)	12.100 hours	
Flow (Peak, Computed)	0.03 ft³/s	
Output Increment	0.050 hours	
Time to Flow (Peak Interpolated Output)	12.100 hours	
Flow (Peak Interpolated Output)	0.03 ft³/s	
Drainage Area		
SCS CN (Composite)	61.000	
Area (User Defined)	0.030 acres	
Maximum Retention (Pervious)	6.4 in	
Maximum Retention (Pervious, 20 percent)	1.3 in	
Cumulative Runoff		
Cumulative Runoff Depth (Pervious)	0.8 in	
Runoff Volume (Pervious)	0.002 ac-ft	
Hydrograph Volume (Area under Hydrograph curve)		
Volume	0.002 ac-ft	
SCS Unit Hydrograph Parameters		
Time of Concentration (Composite)	0.021 hours	
Computational Time Increment	0.003 hours	
Unit Hydrograph Shape Factor	483.432	
K Factor	0.749	

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA44 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.61 ft³/s
Unit peak time, Tp	0.014 hours
Unit receding limb, Tr	0.056 hours
Total unit time, Tb	0.071 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA44 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.021 hours	
Area (User Defined)	0.030 acres	

Computational Time	
Increment	0.003 hours
Time to Peak (Computed)	12.100 hours
Flow (Peak, Computed)	0.09 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.09 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.030 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	0.005 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.005 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.021 hours
Computational Time Increment	0.003 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA44 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, T _r /T _p	1.670
Unit peak, q _p	1.61 ft³/s
Unit peak time, T _p	0.014 hours
Unit receding limb, T _r	0.056 hours
Total unit time, T _b	0.071 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA44 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.021 hours
Area (User Defined)	0.030 acres

Computational Time Increment	0.003 hours
Time to Peak (Computed)	12.100 hours
Flow (Peak, Computed)	0.25 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.25 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.030 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	0.016 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.016 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.021 hours
Computational Time Increment	0.003 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA44 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.61 ft³/s
Unit peak time, Tp	0.014 hours
Unit receding limb, Tr	0.056 hours
Total unit time, Tb	0.071 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA45 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.074 hours
Area (User Defined)	1.810 acres

Computational Time Increment	0.010 hours
Time to Peak (Computed)	12.103 hours
Flow (Peak, Computed)	6.91 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	6.88 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	1.810 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.4 in
Runoff Volume (Pervious)	0.519 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.519 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.074 hours
Computational Time Increment	0.010 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA45 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	27.81 ft³/s
Unit peak time, Tp	0.049 hours
Unit receding limb, Tr	0.197 hours
Total unit time, Tb	0.246 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA45 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.074 hours	
Area (User Defined)	1.810 acres	

Computational Time	
Increment	0.010 hours
Time to Peak (Computed)	12.103 hours
Flow (Peak, Computed)	11.16 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	11.11 ft ³ /s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	1.810 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.7 in
Runoff Volume (Pervious)	0.862 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.862 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.074 hours
Computational Time Increment	0.010 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA45 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	27.81 ft ³ /s
Unit peak time, Tp	0.049 hours
Unit receding limb, Tr	0.197 hours
Total unit time, Tb	0.246 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA45 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.074 hours
Area (User Defined)	1.810 acres

Computational Time Increment	0.010 hours
Time to Peak (Computed)	12.103 hours
Flow (Peak, Computed)	20.86 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	20.78 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	1.810 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.0 in
Runoff Volume (Pervious)	1.657 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1.657 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.074 hours
Computational Time Increment	0.010 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA45 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	27.81 ft³/s
Unit peak time, Tp	0.049 hours
Unit receding limb, Tr	0.197 hours
Total unit time, Tb	0.246 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA45 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.096 hours
Area (User Defined)	0.690 acres

Computational Time Increment	0.013 hours
Time to Peak (Computed)	12.131 hours
Flow (Peak, Computed)	0.54 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.150 hours
Flow (Peak Interpolated Output)	0.49 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.690 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	0.044 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.044 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.096 hours
Computational Time Increment	0.013 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA45 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	8.14 ft³/s
Unit peak time, Tp	0.064 hours
Unit receding limb, Tr	0.256 hours
Total unit time, Tb	0.320 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA45 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	
10yr Projected NOAA D	
Return Event	10 years
Duration	48,000 hours
Depth	6.2 in
Time of Concentration (Composite)	0.096 hours
Area (User Defined)	0.690 acres

Computational Time Increment	0.013 hours
Time to Peak (Computed)	12.118 hours
Flow (Peak, Computed)	1.72 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	1.64 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.690 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	0.123 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.123 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.096 hours
Computational Time Increment	0.013 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA45 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, T _r /T _p	1.670
Unit peak, q _p	8.14 ft³/s
Unit peak time, T _p	0.064 hours
Unit receding limb, T _r	0.256 hours
Total unit time, T _b	0.320 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA45 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.096 hours
Area (User Defined)	0.690 acres
Computational Time	
Increment	0.013 hours
Time to Peak (Computed)	12.118 hours
Flow (Peak, Computed)	5.14 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	4.97 ft ³ /s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.690 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	0.360 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.360 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.096 hours
Computational Time Increment	0.013 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA45 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, T _r /T _p	1.670
Unit peak, q _p	8.14 ft ³ /s
Unit peak time, T _p	0.064 hours
Unit receding limb, T _r	0.256 hours
Total unit time, T _b	0.320 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA46 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.030 hours
Area (User Defined)	0.310 acres

Computational Time	
Increment	0.004 hours
Time to Peak (Computed)	12.100 hours
Flow (Peak, Computed)	1.25 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	1.25 ft ³ /s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.310 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.6 in
Runoff Volume (Pervious)	0.092 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.092 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.030 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA46 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	11.82 ft ³ /s
Unit peak time, Tp	0.020 hours
Unit receding limb, Tr	0.079 hours
Total unit time, Tb	0.099 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA46 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	
10yr Projected NOAA D	
Return Event	10 years
Duration	48,000 hours
Depth	6.2 in
Time of Concentration (Composite)	0.030 hours
Area (User Defined)	0.310 acres

Computational Time	
Increment	0.004 hours
Time to Peak (Computed)	12.100 hours
Flow (Peak, Computed)	2.01 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	2.00 ft³/s

Drainage Area	
SCS CN (Composite)	97,000
Area (User Defined)	0.310 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.8 in
Runoff Volume (Pervious)	0.151 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.151 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.030 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA46 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	11.82 ft³/s
Unit peak time, Tp	0.020 hours
Unit receding limb, Tr	0.079 hours
Total unit time, Tb	0.099 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA46 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.030 hours
Area (User Defined)	0.310 acres

Computational Time	
Increment	0.004 hours
Time to Peak (Computed)	12.100 hours
Flow (Peak, Computed)	3.73 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	3.73 ft ³ /s

Drainage Area	
SCS CN (Composite)	97,000
Area (User Defined)	0.310 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.1 in
Runoff Volume (Pervious)	0.287 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.287 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.030 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA46 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	11.82 ft ³ /s
Unit peak time, Tp	0.020 hours
Unit receding limb, Tr	0.079 hours
Total unit time, Tb	0.099 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA46 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.100 hours
Area (User Defined)	0.130 acres

Computational Time	
Increment	0.013 hours
Time to Peak (Computed)	12.132 hours
Flow (Peak, Computed)	0.10 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.150 hours
Flow (Peak Interpolated Output)	0.09 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.130 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	0.008 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.008 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.100 hours
Computational Time Increment	0.013 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA46 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.47 ft³/s
Unit peak time, Tp	0.067 hours
Unit receding limb, Tr	0.268 hours
Total unit time, Tb	0.334 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA46 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	
10yr Projected NOAA D	
Return Event	10 years
Duration	48,000 hours
Depth	6.2 in
Time of Concentration (Composite)	0.100 hours
Area (User Defined)	0.130 acres

Computational Time Increment	0.013 hours
Time to Peak (Computed)	12.119 hours
Flow (Peak, Computed)	0.32 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.30 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.130 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	0.023 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.023 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.100 hours
Computational Time Increment	0.013 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA46 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.47 ft³/s
Unit peak time, Tp	0.067 hours
Unit receding limb, Tr	0.268 hours
Total unit time, Tb	0.334 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA46 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.100 hours
Area (User Defined)	0.130 acres

Computational Time Increment	0.013 hours
Time to Peak (Computed)	12.119 hours
Flow (Peak, Computed)	0.96 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.92 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.130 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	0.068 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.068 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.100 hours
Computational Time Increment	0.013 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA46 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.47 ft³/s
Unit peak time, Tp	0.067 hours
Unit receding limb, Tr	0.268 hours
Total unit time, Tb	0.334 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA47 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.059 hours
Area (User Defined)	0.530 acres

Computational Time	
Increment	0.008 hours
Time to Peak (Computed)	12.099 hours
Flow (Peak, Computed)	2.10 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	2.10 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.530 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.6 in
Runoff Volume (Pervious)	0.157 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.157 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.059 hours
Computational Time Increment	0.008 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA47 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	10.21 ft³/s
Unit peak time, Tp	0.039 hours
Unit receding limb, Tr	0.157 hours
Total unit time, Tb	0.196 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA47 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.059 hours	
Area (User Defined)	0.530 acres	

Computational Time	
Increment	0.008 hours
Time to Peak (Computed)	12.099 hours
Flow (Peak, Computed)	3.36 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	3.36 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.530 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.8 in
Runoff Volume (Pervious)	0.258 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.258 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.059 hours
Computational Time Increment	0.008 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA47 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	10.21 ft³/s
Unit peak time, Tp	0.039 hours
Unit receding limb, Tr	0.157 hours
Total unit time, Tb	0.196 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA47 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.059 hours
Area (User Defined)	0.530 acres

Computational Time Increment	0.008 hours
Time to Peak (Computed)	12.099 hours
Flow (Peak, Computed)	6.26 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	6.26 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.530 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.1 in
Runoff Volume (Pervious)	0.491 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.491 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.059 hours
Computational Time Increment	0.008 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA47 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	10.21 ft³/s
Unit peak time, Tp	0.039 hours
Unit receding limb, Tr	0.157 hours
Total unit time, Tb	0.196 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA47- Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event		2yr Projected NOAA D
Return Event	2 years	
Duration	48,000 hours	
Depth	3.9 in	
Time of Concentration (Composite)	0.240 hours	
Area (User Defined)	0.300 acres	
Computational Time Increment	0.032 hours	
Time to Peak (Computed)	12.221 hours	
Flow (Peak, Computed)	0.16 ft³/s	
Output Increment	0.050 hours	
Time to Flow (Peak Interpolated Output)	12.200 hours	
Flow (Peak Interpolated Output)	0.16 ft³/s	

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.300 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	0.019 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.019 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.240 hours
Computational Time Increment	0.032 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA47- Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.42 ft³/s
Unit peak time, Tp	0.160 hours
Unit receding limb, Tr	0.640 hours
Total unit time, Tb	0.800 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA47- Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.240 hours	
Area (User Defined)	0.300 acres	
Computational Time Increment	0.032 hours	
Time to Peak (Computed)	12.189 hours	
Flow (Peak, Computed)	0.54 ft³/s	
Output Increment	0.050 hours	
Time to Flow (Peak Interpolated Output)	12.200 hours	
Flow (Peak Interpolated Output)	0.54 ft³/s	

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.300 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	0.053 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.053 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.240 hours
Computational Time Increment	0.032 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA47- Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, T _r /T _p	1.670
Unit peak, q _p	1.42 ft³/s
Unit peak time, T _p	0.160 hours
Unit receding limb, T _r	0.640 hours
Total unit time, T _b	0.800 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA47- Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.240 hours
Area (User Defined)	0.300 acres

Computational Time Increment	0.032 hours
Time to Peak (Computed)	12.189 hours
Flow (Peak, Computed)	1.65 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.200 hours
Flow (Peak Interpolated Output)	1.64 ft ³ /s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.300 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	0.157 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.157 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.240 hours
Computational Time Increment	0.032 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA47- Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.42 ft ³ /s
Unit peak time, Tp	0.160 hours
Unit receding limb, Tr	0.640 hours
Total unit time, Tb	0.800 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA48 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event		2yr Projected NOAA D
Return Event	2 years	
Duration	48,000 hours	
Depth	3.9 in	
Time of Concentration (Composite)	0.073 hours	
Area (User Defined)	0.210 acres	

Computational Time	
Increment	0.010 hours
Time to Peak (Computed)	12.110 hours
Flow (Peak, Computed)	0.80 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.80 ft ³ /s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.210 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.4 in
Runoff Volume (Pervious)	0.060 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.060 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.073 hours
Computational Time Increment	0.010 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA48 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.24 ft ³ /s
Unit peak time, Tp	0.049 hours
Unit receding limb, Tr	0.196 hours
Total unit time, Tb	0.245 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA48 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.073 hours	
Area (User Defined)	0.210 acres	

Computational Time	
Increment	0.010 hours
Time to Peak (Computed)	12.110 hours
Flow (Peak, Computed)	1.30 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	1.29 ft ³ /s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.210 acres
Maximum Retention (Previous)	0.4 in
Maximum Retention (Previous, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Previous)	5.7 in
Runoff Volume (Previous)	0.100 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.100 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.073 hours
Computational Time Increment	0.010 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA48 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, T _r /T _p	1.670
Unit peak, q _p	3.24 ft ³ /s
Unit peak time, T _p	0.049 hours
Unit receding limb, T _r	0.196 hours
Total unit time, T _b	0.245 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA48 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.073 hours
Area (User Defined)	0.210 acres

Computational Time	
Increment	0.010 hours
Time to Peak (Computed)	12.110 hours
Flow (Peak, Computed)	2.43 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	2.42 ft ³ /s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.210 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.0 in
Runoff Volume (Pervious)	0.192 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.192 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.073 hours
Computational Time Increment	0.010 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA48 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.24 ft ³ /s
Unit peak time, Tp	0.049 hours
Unit receding limb, Tr	0.196 hours
Total unit time, Tb	0.245 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA48 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.073 hours
Area (User Defined)	0.090 acres

Computational Time Increment	0.010 hours
Time to Peak (Computed)	12.120 hours
Flow (Peak, Computed)	0.08 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.07 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.090 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	0.006 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.006 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.073 hours
Computational Time Increment	0.010 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA48 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.39 ft³/s
Unit peak time, Tp	0.049 hours
Unit receding limb, Tr	0.196 hours
Total unit time, Tb	0.245 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA48 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	
10yr Projected NOAA D	
Return Event	10 years
Duration	48,000 hours
Depth	6.2 in
Time of Concentration (Composite)	0.073 hours
Area (User Defined)	0.090 acres

Computational Time Increment	0.010 hours
Time to Peak (Computed)	12.110 hours
Flow (Peak, Computed)	0.24 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.23 ft ³ /s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.090 acres
Maximum Retention (Previous)	6.4 in
Maximum Retention (Previous, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Previous)	2.1 in
Runoff Volume (Previous)	0.016 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.016 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.073 hours
Computational Time Increment	0.010 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA48 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, T _r /T _p	1.670
Unit peak, q _p	1.39 ft ³ /s
Unit peak time, T _p	0.049 hours
Unit receding limb, T _r	0.196 hours
Total unit time, T _b	0.245 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA48 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.073 hours
Area (User Defined)	0.090 acres
Computational Time	
Increment	0.010 hours
Time to Peak (Computed)	12.110 hours
Flow (Peak, Computed)	0.71 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.70 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.090 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	0.047 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.047 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.073 hours
Computational Time Increment	0.010 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA48 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.39 ft³/s
Unit peak time, Tp	0.049 hours
Unit receding limb, Tr	0.196 hours
Total unit time, Tb	0.245 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA49 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.045 hours
Area (User Defined)	0.300 acres

Computational Time Increment	0.006 hours
Time to Peak (Computed)	12.097 hours
Flow (Peak, Computed)	1.20 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	1.20 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.300 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.6 in
Runoff Volume (Pervious)	0.089 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.089 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.045 hours
Computational Time Increment	0.006 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA49 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	7.55 ft³/s
Unit peak time, Tp	0.030 hours
Unit receding limb, Tr	0.120 hours
Total unit time, Tb	0.150 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA49 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.045 hours	
Area (User Defined)	0.300 acres	

Computational Time		0.006 hours
Increment	12,097 hours	
Time to Peak (Computed)	1.93 ft³/s	
Flow (Peak, Computed)	0.050 hours	
Output Increment	12,100 hours	
Time to Flow (Peak Interpolated Output)	1.93 ft³/s	
Flow (Peak Interpolated Output)		

Drainage Area		
SCS CN (Composite)	97,000	
Area (User Defined)	0.300 acres	
Maximum Retention (Pervious)	0.3 in	
Maximum Retention (Pervious, 20 percent)	0.1 in	

Cumulative Runoff		
Cumulative Runoff Depth (Pervious)	5.8 in	
Runoff Volume (Pervious)	0.146 ac-ft	

Hydrograph Volume (Area under Hydrograph curve)		
Volume	0.146 ac-ft	

SCS Unit Hydrograph Parameters		
Time of Concentration (Composite)	0.045 hours	
Computational Time Increment	0.006 hours	
Unit Hydrograph Shape Factor	483.432	
K Factor	0.749	

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA49 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters		
Receding/Rising, Tr/Tp	1.670	
Unit peak, qp	7.55 ft³/s	
Unit peak time, Tp	0.030 hours	
Unit receding limb, Tr	0.120 hours	
Total unit time, Tb	0.150 hours	

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA49 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.045 hours
Area (User Defined)	0.300 acres

Computational Time Increment	0.006 hours
Time to Peak (Computed)	12.097 hours
Flow (Peak, Computed)	3.59 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	3.59 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.300 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.1 in
Runoff Volume (Pervious)	0.278 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.278 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.045 hours
Computational Time Increment	0.006 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA49 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	7.55 ft³/s
Unit peak time, Tp	0.030 hours
Unit receding limb, Tr	0.120 hours
Total unit time, Tb	0.150 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA49 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.045 hours
Area (User Defined)	0.180 acres

Computational Time Increment	0.006 hours
Time to Peak (Computed)	12.109 hours
Flow (Peak, Computed)	0.16 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.16 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.180 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	0.011 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.011 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.045 hours
Computational Time Increment	0.006 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA49 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	4.53 ft³/s
Unit peak time, Tp	0.030 hours
Unit receding limb, Tr	0.120 hours
Total unit time, Tb	0.150 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA49 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.045 hours	
Area (User Defined)	0.180 acres	

Computational Time	
Increment	0.006 hours
Time to Peak (Computed)	12.103 hours
Flow (Peak, Computed)	0.51 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.50 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.180 acres
Maximum Retention (Previous)	6.4 in
Maximum Retention (Previous, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Previous)	2.1 in
Runoff Volume (Previous)	0.032 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.032 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.045 hours
Computational Time Increment	0.006 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA49 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	4.53 ft³/s
Unit peak time, Tp	0.030 hours
Unit receding limb, Tr	0.120 hours
Total unit time, Tb	0.150 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA49 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.045 hours
Area (User Defined)	0.180 acres

Computational Time Increment	0.006 hours
Time to Peak (Computed)	12.103 hours
Flow (Peak, Computed)	1.48 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	1.48 ft ³ /s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.180 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	0.094 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.094 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.045 hours
Computational Time Increment	0.006 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA49 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	4.53 ft ³ /s
Unit peak time, Tp	0.030 hours
Unit receding limb, Tr	0.120 hours
Total unit time, Tb	0.150 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA5 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event		2yr Projected NOAA D
Return Event	2 years	
Duration	48,000 hours	
Depth	3.9 in	
Time of Concentration (Composite)	0.020 hours	
Area (User Defined)	0.380 acres	

Computational Time	
Increment	0.003 hours
Time to Peak (Computed)	12.099 hours
Flow (Peak, Computed)	1.52 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	1.51 ft ³ /s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.380 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.4 in
Runoff Volume (Pervious)	0.109 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.109 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.020 hours
Computational Time Increment	0.003 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA5 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	21.53 ft ³ /s
Unit peak time, Tp	0.013 hours
Unit receding limb, Tr	0.053 hours
Total unit time, Tb	0.067 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA5 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.020 hours	
Area (User Defined)	0.380 acres	

Computational Time	
Increment	0.003 hours
Time to Peak (Computed)	12.099 hours
Flow (Peak, Computed)	2.45 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	2.44 ft ³ /s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.380 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.7 in
Runoff Volume (Pervious)	0.181 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.181 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.020 hours
Computational Time Increment	0.003 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA5 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	21.53 ft ³ /s
Unit peak time, Tp	0.013 hours
Unit receding limb, Tr	0.053 hours
Total unit time, Tb	0.067 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA5 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.020 hours
Area (User Defined)	0.380 acres

Computational Time Increment	0.003 hours
Time to Peak (Computed)	12.099 hours
Flow (Peak, Computed)	4.57 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	4.56 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.380 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.0 in
Runoff Volume (Pervious)	0.348 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.348 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.020 hours
Computational Time Increment	0.003 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA5 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	21.53 ft³/s
Unit peak time, Tp	0.013 hours
Unit receding limb, Tr	0.053 hours
Total unit time, Tb	0.067 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA5 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.020 hours
Area (User Defined)	0.130 acres

Computational Time	
Increment	0.003 hours
Time to Peak (Computed)	12.101 hours
Flow (Peak, Computed)	0.13 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.13 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.130 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	0.008 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.008 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.020 hours
Computational Time Increment	0.003 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA5 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	7.36 ft³/s
Unit peak time, Tp	0.013 hours
Unit receding limb, Tr	0.053 hours
Total unit time, Tb	0.067 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA5 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.020 hours	
Area (User Defined)	0.130 acres	

Computational Time		0.003 hours
Increment	12,099 hours	
Time to Peak (Computed)	0.38 ft³/s	
Flow (Peak, Computed)	0.050 hours	
Output Increment	12,100 hours	
Time to Flow (Peak Interpolated Output)	0.38 ft³/s	
Flow (Peak Interpolated Output)		

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.130 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	0.023 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.023 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.020 hours
Computational Time Increment	0.003 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA5 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters		1.670
Receding/Rising, Tr/Tp	Unit peak, qp	7.36 ft³/s
Unit peak time, Tp	Unit receding limb, Tr	0.013 hours
Unit receding limb, Tr	Total unit time, Tb	0.053 hours
Total unit time, Tb		0.067 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA5 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.020 hours
Area (User Defined)	0.130 acres

Computational Time Increment	0.003 hours
Time to Peak (Computed)	12.099 hours
Flow (Peak, Computed)	1.09 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	1.09 ft ³ /s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.130 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	0.068 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.068 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.020 hours
Computational Time Increment	0.003 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA5 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	7.36 ft ³ /s
Unit peak time, Tp	0.013 hours
Unit receding limb, Tr	0.053 hours
Total unit time, Tb	0.067 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA50 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event		2yr Projected NOAA D
Return Event	2 years	
Duration	48,000 hours	
Depth	3.9 in	
Time of Concentration (Composite)	0.037 hours	
Area (User Defined)	0.360 acres	

Computational Time		0.005 hours
Increment	12,096 hours	
Time to Peak (Computed)	1.45 ft³/s	
Flow (Peak, Computed)	0.050 hours	
Output Increment	12,100 hours	
Time to Flow (Peak Interpolated Output)	1.45 ft³/s	
Flow (Peak Interpolated Output)		

Drainage Area		
SCS CN (Composite)	97,000	
Area (User Defined)	0.360 acres	
Maximum Retention (Pervious)	0.3 in	
Maximum Retention (Pervious, 20 percent)	0.1 in	

Cumulative Runoff		
Cumulative Runoff Depth (Pervious)	3.6 in	
Runoff Volume (Pervious)	0.107 ac-ft	

Hydrograph Volume (Area under Hydrograph curve)		
Volume	0.107 ac-ft	

SCS Unit Hydrograph Parameters		
Time of Concentration (Composite)	0.037 hours	
Computational Time Increment	0.005 hours	
Unit Hydrograph Shape Factor	483.432	
K Factor	0.749	

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA50 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters		
Receding/Rising, Tr/Tp	1.670	
Unit peak, qp	11.12 ft³/s	
Unit peak time, Tp	0.024 hours	
Unit receding limb, Tr	0.098 hours	
Total unit time, Tb	0.122 hours	

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA50 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.037 hours	
Area (User Defined)	0.360 acres	

Computational Time	
Increment	0.005 hours
Time to Peak (Computed)	12.096 hours
Flow (Peak, Computed)	2.32 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	2.32 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.360 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.8 in
Runoff Volume (Pervious)	0.175 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.175 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.037 hours
Computational Time Increment	0.005 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA50 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	11.12 ft³/s
Unit peak time, Tp	0.024 hours
Unit receding limb, Tr	0.098 hours
Total unit time, Tb	0.122 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA50 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.037 hours
Area (User Defined)	0.360 acres

Computational Time Increment	0.005 hours
Time to Peak (Computed)	12.096 hours
Flow (Peak, Computed)	4.33 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	4.33 ft ³ /s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.360 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.1 in
Runoff Volume (Pervious)	0.333 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.333 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.037 hours
Computational Time Increment	0.005 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA50 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	11.12 ft ³ /s
Unit peak time, Tp	0.024 hours
Unit receding limb, Tr	0.098 hours
Total unit time, Tb	0.122 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA50 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.124 hours
Area (User Defined)	0.120 acres

Computational Time Increment	0.016 hours
Time to Peak (Computed)	12.139 hours
Flow (Peak, Computed)	0.09 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.150 hours
Flow (Peak Interpolated Output)	0.08 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.120 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	0.008 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.008 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.124 hours
Computational Time Increment	0.016 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA50 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.10 ft³/s
Unit peak time, Tp	0.082 hours
Unit receding limb, Tr	0.329 hours
Total unit time, Tb	0.412 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA50 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.124 hours	
Area (User Defined)	0.120 acres	
Computational Time Increment	0.016 hours	
Time to Peak (Computed)	12.139 hours	
Flow (Peak, Computed)	0.28 ft ³ /s	
Output Increment	0.050 hours	
Time to Flow (Peak Interpolated Output)	12.150 hours	
Flow (Peak Interpolated Output)	0.27 ft ³ /s	

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.120 acres
Maximum Retention (Previous)	6.4 in
Maximum Retention (Previous, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Previous)	2.1 in
Runoff Volume (Previous)	0.021 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.021 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.124 hours
Computational Time Increment	0.016 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA50 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, T _r /T _p	1.670
Unit peak, q _p	1.10 ft ³ /s
Unit peak time, T _p	0.082 hours
Unit receding limb, T _r	0.329 hours
Total unit time, T _b	0.412 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA50 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.124 hours
Area (User Defined)	0.120 acres

Computational Time Increment	0.016 hours
Time to Peak (Computed)	12.122 hours
Flow (Peak, Computed)	0.83 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.150 hours
Flow (Peak Interpolated Output)	0.80 ft ³ /s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.120 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	0.063 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.063 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.124 hours
Computational Time Increment	0.016 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA50 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.10 ft ³ /s
Unit peak time, Tp	0.082 hours
Unit receding limb, Tr	0.329 hours
Total unit time, Tb	0.412 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA51 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event		2yr Projected NOAA D
Return Event	2 years	
Duration	48,000 hours	
Depth	3.9 in	
Time of Concentration (Composite)	0.055 hours	
Area (User Defined)	0.610 acres	

Computational Time		0.007 hours
Increment	12,099 hours	
Time to Peak (Computed)	2.45 ft³/s	
Flow (Peak, Computed)	0.050 hours	
Output Increment	12,100 hours	
Time to Flow (Peak Interpolated Output)	2.45 ft³/s	
Flow (Peak Interpolated Output)		

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.610 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.7 in
Runoff Volume (Pervious)	0.186 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.186 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.055 hours
Computational Time Increment	0.007 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA51 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	12.54 ft³/s
Unit peak time, Tp	0.037 hours
Unit receding limb, Tr	0.147 hours
Total unit time, Tb	0.184 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA51 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.055 hours	
Area (User Defined)	0.610 acres	

Computational Time	
Increment	0.007 hours
Time to Peak (Computed)	12.099 hours
Flow (Peak, Computed)	3.91 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	3.91 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.610 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.0 in
Runoff Volume (Pervious)	0.303 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.303 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.055 hours
Computational Time Increment	0.007 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA51 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, T _r /T _p	1.670
Unit peak, q _p	12.54 ft³/s
Unit peak time, T _p	0.037 hours
Unit receding limb, T _r	0.147 hours
Total unit time, T _b	0.184 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA51 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.055 hours
Area (User Defined)	0.610 acres

Computational Time Increment	0.007 hours
Time to Peak (Computed)	12.099 hours
Flow (Peak, Computed)	7.26 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	7.25 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.610 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.2 in
Runoff Volume (Pervious)	0.571 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.571 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.055 hours
Computational Time Increment	0.007 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA51 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	12.54 ft³/s
Unit peak time, Tp	0.037 hours
Unit receding limb, Tr	0.147 hours
Total unit time, Tb	0.184 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA51 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event		2yr Projected NOAA D
Return Event	2 years	
Duration	48,000 hours	
Depth	3.9 in	
Time of Concentration (Composite)	0.135 hours	
Area (User Defined)	1.010 acres	

Computational Time		0.018 hours
Increment	12.154 hours	
Time to Peak (Computed)	0.77 ft³/s	
Flow (Peak, Computed)	0.050 hours	
Output Increment	12.150 hours	
Time to Flow (Peak Interpolated Output)	0.77 ft³/s	
Flow (Peak Interpolated Output)		

Drainage Area	
SCS CN (Composite)	62,000
Area (User Defined)	1.010 acres
Maximum Retention (Pervious)	6.1 in
Maximum Retention (Pervious, 20 percent)	1.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	0.068 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.068 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.135 hours
Computational Time Increment	0.018 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA51 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters		1.670
Receding/Rising, Tr/Tp	Unit peak, qp	8.46 ft³/s
Unit peak time, Tp	Unit receding limb, Tr	0.090 hours
Unit receding limb, Tr	Total unit time, Tb	0.361 hours
Total unit time, Tb		0.451 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA51 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.135 hours	
Area (User Defined)	1.010 acres	

Computational Time	
Increment	0.018 hours
Time to Peak (Computed)	12.135 hours
Flow (Peak, Computed)	2.40 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.150 hours
Flow (Peak Interpolated Output)	2.37 ft ³ /s

Drainage Area	
SCS CN (Composite)	62,000
Area (User Defined)	1.010 acres
Maximum Retention (Previous)	6.1 in
Maximum Retention (Previous, 20 percent)	1.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Previous)	2.2 in
Runoff Volume (Previous)	0.187 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.187 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.135 hours
Computational Time Increment	0.018 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA51 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, T _r /T _p	1.670
Unit peak, q _p	8.46 ft ³ /s
Unit peak time, T _p	0.090 hours
Unit receding limb, T _r	0.361 hours
Total unit time, T _b	0.451 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA51 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.135 hours
Area (User Defined)	1.010 acres

Computational Time Increment	0.018 hours
Time to Peak (Computed)	12.135 hours
Flow (Peak, Computed)	7.05 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.150 hours
Flow (Peak Interpolated Output)	6.90 ft³/s

Drainage Area	
SCS CN (Composite)	62.000
Area (User Defined)	1.010 acres
Maximum Retention (Pervious)	6.1 in
Maximum Retention (Pervious, 20 percent)	1.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.4 in
Runoff Volume (Pervious)	0.539 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.540 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.135 hours
Computational Time Increment	0.018 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA51 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	8.46 ft³/s
Unit peak time, Tp	0.090 hours
Unit receding limb, Tr	0.361 hours
Total unit time, Tb	0.451 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA52 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event		2yr Projected NOAA D
Return Event	2 years	
Duration	48,000 hours	
Depth	3.9 in	
Time of Concentration (Composite)	0.031 hours	
Area (User Defined)	0.390 acres	

Computational Time		0.004 hours
Increment	12.100 hours	
Time to Peak (Computed)	1.57 ft³/s	
Flow (Peak, Computed)	0.050 hours	
Output Increment	12.100 hours	
Time to Flow (Peak Interpolated Output)	1.57 ft³/s	
Flow (Peak Interpolated Output)		

Drainage Area		
SCS CN (Composite)	97,000	
Area (User Defined)	0.390 acres	
Maximum Retention (Pervious)	0.3 in	
Maximum Retention (Pervious, 20 percent)	0.1 in	

Cumulative Runoff		
Cumulative Runoff Depth (Pervious)	3.6 in	
Runoff Volume (Pervious)	0.115 ac-ft	

Hydrograph Volume (Area under Hydrograph curve)		
Volume	0.115 ac-ft	

SCS Unit Hydrograph Parameters		
Time of Concentration (Composite)	0.031 hours	
Computational Time Increment	0.004 hours	
Unit Hydrograph Shape Factor	483.432	
K Factor	0.749	

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA52 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters		
Receding/Rising, Tr/Tp	1.670	
Unit peak, qp	14.27 ft³/s	
Unit peak time, Tp	0.021 hours	
Unit receding limb, Tr	0.083 hours	
Total unit time, Tb	0.103 hours	

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA52 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.031 hours	
Area (User Defined)	0.390 acres	

Computational Time	
Increment	0.004 hours
Time to Peak (Computed)	12.100 hours
Flow (Peak, Computed)	2.52 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	2.52 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.390 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.8 in
Runoff Volume (Pervious)	0.190 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.190 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.031 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA52 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	14.27 ft³/s
Unit peak time, Tp	0.021 hours
Unit receding limb, Tr	0.083 hours
Total unit time, Tb	0.103 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA52 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.031 hours
Area (User Defined)	0.390 acres

Computational Time Increment	0.004 hours
Time to Peak (Computed)	12.100 hours
Flow (Peak, Computed)	4.70 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	4.69 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.390 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.1 in
Runoff Volume (Pervious)	0.361 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.361 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.031 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA52 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	14.27 ft³/s
Unit peak time, Tp	0.021 hours
Unit receding limb, Tr	0.083 hours
Total unit time, Tb	0.103 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA52 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.117 hours
Area (User Defined)	0.390 acres

Computational Time Increment	0.016 hours
Time to Peak (Computed)	12.143 hours
Flow (Peak, Computed)	0.29 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.150 hours
Flow (Peak Interpolated Output)	0.28 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.390 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	0.025 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.025 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.117 hours
Computational Time Increment	0.016 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA52 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.79 ft³/s
Unit peak time, Tp	0.078 hours
Unit receding limb, Tr	0.311 hours
Total unit time, Tb	0.389 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA52 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.117 hours	
Area (User Defined)	0.390 acres	

Computational Time	
Increment	0.016 hours
Time to Peak (Computed)	12.127 hours
Flow (Peak, Computed)	0.93 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.150 hours
Flow (Peak Interpolated Output)	0.88 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.390 acres
Maximum Retention (Previous)	6.4 in
Maximum Retention (Previous, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Previous)	2.1 in
Runoff Volume (Previous)	0.069 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.069 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.117 hours
Computational Time Increment	0.016 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA52 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.79 ft³/s
Unit peak time, Tp	0.078 hours
Unit receding limb, Tr	0.311 hours
Total unit time, Tb	0.389 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA52 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.117 hours
Area (User Defined)	0.390 acres

Computational Time Increment	0.016 hours
Time to Peak (Computed)	12.127 hours
Flow (Peak, Computed)	2.77 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.150 hours
Flow (Peak Interpolated Output)	2.61 ft ³ /s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.390 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	0.204 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.204 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.117 hours
Computational Time Increment	0.016 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA52 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.79 ft ³ /s
Unit peak time, Tp	0.078 hours
Unit receding limb, Tr	0.311 hours
Total unit time, Tb	0.389 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA53 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.031 hours
Area (User Defined)	0.320 acres

Computational Time	
Increment	0.004 hours
Time to Peak (Computed)	12.097 hours
Flow (Peak, Computed)	1.28 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	1.27 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.320 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.4 in
Runoff Volume (Pervious)	0.092 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.092 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.031 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA53 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	11.57 ft³/s
Unit peak time, Tp	0.021 hours
Unit receding limb, Tr	0.084 hours
Total unit time, Tb	0.104 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA53 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.031 hours	
Area (User Defined)	0.320 acres	

Computational Time	
Increment	0.004 hours
Time to Peak (Computed)	12.097 hours
Flow (Peak, Computed)	2.06 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	2.05 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.320 acres
Maximum Retention (Previous)	0.4 in
Maximum Retention (Previous, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Previous)	5.7 in
Runoff Volume (Previous)	0.152 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.152 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.031 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA53 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	11.57 ft³/s
Unit peak time, Tp	0.021 hours
Unit receding limb, Tr	0.084 hours
Total unit time, Tb	0.104 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA53 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.031 hours
Area (User Defined)	0.320 acres

Computational Time	
Increment	0.004 hours
Time to Peak (Computed)	12.097 hours
Flow (Peak, Computed)	3.85 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	3.84 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.320 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.0 in
Runoff Volume (Pervious)	0.293 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.293 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.031 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA53 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	11.57 ft³/s
Unit peak time, Tp	0.021 hours
Unit receding limb, Tr	0.084 hours
Total unit time, Tb	0.104 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA53 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.114 hours
Area (User Defined)	0.370 acres

Computational Time	
Increment	0.015 hours
Time to Peak (Computed)	12.139 hours
Flow (Peak, Computed)	0.27 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.150 hours
Flow (Peak Interpolated Output)	0.27 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.370 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	0.024 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.024 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.114 hours
Computational Time Increment	0.015 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA53 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.69 ft³/s
Unit peak time, Tp	0.076 hours
Unit receding limb, Tr	0.303 hours
Total unit time, Tb	0.378 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA53 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	
10yr Projected NOAA D	
Return Event	10 years
Duration	48,000 hours
Depth	6.2 in
Time of Concentration (Composite)	0.114 hours
Area (User Defined)	0.370 acres

Computational Time Increment	0.015 hours
Time to Peak (Computed)	12.123 hours
Flow (Peak, Computed)	0.88 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.150 hours
Flow (Peak Interpolated Output)	0.84 ft ³ /s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.370 acres
Maximum Retention (Previous)	6.4 in
Maximum Retention (Previous, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Previous)	2.1 in
Runoff Volume (Previous)	0.066 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.066 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.114 hours
Computational Time Increment	0.015 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA53 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, T _r /T _p	1.670
Unit peak, q _p	3.69 ft ³ /s
Unit peak time, T _p	0.076 hours
Unit receding limb, T _r	0.303 hours
Total unit time, T _b	0.378 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA53 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.114 hours
Area (User Defined)	0.370 acres

Computational Time Increment	0.015 hours
Time to Peak (Computed)	12.123 hours
Flow (Peak, Computed)	2.65 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	2.49 ft ³ /s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.370 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	0.193 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.193 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.114 hours
Computational Time Increment	0.015 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA53 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.69 ft ³ /s
Unit peak time, Tp	0.076 hours
Unit receding limb, Tr	0.303 hours
Total unit time, Tb	0.378 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA54 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.034 hours
Area (User Defined)	0.310 acres

Computational Time	
Increment	0.005 hours
Time to Peak (Computed)	12.097 hours
Flow (Peak, Computed)	1.24 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	1.23 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.310 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.4 in
Runoff Volume (Pervious)	0.089 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.089 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.034 hours
Computational Time Increment	0.005 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA54 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	10.29 ft³/s
Unit peak time, Tp	0.023 hours
Unit receding limb, Tr	0.091 hours
Total unit time, Tb	0.114 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA54 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.034 hours	
Area (User Defined)	0.310 acres	

Computational Time	
Increment	0.005 hours
Time to Peak (Computed)	12.097 hours
Flow (Peak, Computed)	1.99 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	1.99 ft ³ /s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.310 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.7 in
Runoff Volume (Pervious)	0.148 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.148 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.034 hours
Computational Time Increment	0.005 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA54 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	10.29 ft ³ /s
Unit peak time, Tp	0.023 hours
Unit receding limb, Tr	0.091 hours
Total unit time, Tb	0.114 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA54 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.034 hours
Area (User Defined)	0.310 acres

Computational Time Increment	0.005 hours
Time to Peak (Computed)	12.097 hours
Flow (Peak, Computed)	3.73 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	3.72 ft ³ /s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.310 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.0 in
Runoff Volume (Pervious)	0.284 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.284 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.034 hours
Computational Time Increment	0.005 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA54 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	10.29 ft ³ /s
Unit peak time, Tp	0.023 hours
Unit receding limb, Tr	0.091 hours
Total unit time, Tb	0.114 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA54 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.034 hours
Area (User Defined)	0.100 acres

Computational Time Increment	0.005 hours
Time to Peak (Computed)	12.102 hours
Flow (Peak, Computed)	0.09 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.09 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.100 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	0.006 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.006 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.034 hours
Computational Time Increment	0.005 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA54 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.32 ft³/s
Unit peak time, Tp	0.023 hours
Unit receding limb, Tr	0.091 hours
Total unit time, Tb	0.114 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA54 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.034 hours	
Area (User Defined)	0.100 acres	

Computational Time		0.005 hours
Increment	12.102 hours	
Time to Peak (Computed)	0.29 ft³/s	
Flow (Peak, Computed)	0.050 hours	
Output Increment	12.100 hours	
Time to Flow (Peak Interpolated Output)	0.29 ft³/s	
Flow (Peak Interpolated Output)		

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.100 acres
Maximum Retention (Previous)	6.4 in
Maximum Retention (Previous, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Previous)	2.1 in
Runoff Volume (Previous)	0.018 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.018 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.034 hours
Computational Time Increment	0.005 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA54 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters		1.670
Receding/Rising, Tr/Tp	Unit peak, qp	3.32 ft³/s
Unit peak time, Tp	Unit receding limb, Tr	0.023 hours
Unit receding limb, Tr	Total unit time, Tb	0.091 hours
Total unit time, Tb		0.114 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA54 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.034 hours
Area (User Defined)	0.100 acres

Computational Time	
Increment	0.005 hours
Time to Peak (Computed)	12.102 hours
Flow (Peak, Computed)	0.83 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.83 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.100 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	0.052 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.052 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.034 hours
Computational Time Increment	0.005 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA54 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.32 ft³/s
Unit peak time, Tp	0.023 hours
Unit receding limb, Tr	0.091 hours
Total unit time, Tb	0.114 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA55 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event		2yr Projected NOAA D
Return Event	2 years	
Duration	48,000 hours	
Depth	3.9 in	
Time of Concentration (Composite)	0.020 hours	
Area (User Defined)	2.090 acres	

Computational Time		0.003 hours
Increment	12,099 hours	
Time to Peak (Computed)	8.51 ft³/s	
Flow (Peak, Computed)	0.050 hours	
Output Increment	12,100 hours	
Time to Flow (Peak Interpolated Output)	8.49 ft³/s	
Flow (Peak Interpolated Output)		

Drainage Area		
SCS CN (Composite)	98.000	
Area (User Defined)	2.090 acres	
Maximum Retention (Pervious)	0.2 in	
Maximum Retention (Pervious, 20 percent)	0.0 in	

Cumulative Runoff		
Cumulative Runoff Depth (Pervious)	3.7 in	
Runoff Volume (Pervious)	0.638 ac-ft	

Hydrograph Volume (Area under Hydrograph curve)		
Volume	0.638 ac-ft	

SCS Unit Hydrograph Parameters		
Time of Concentration (Composite)	0.020 hours	
Computational Time Increment	0.003 hours	
Unit Hydrograph Shape Factor	483.432	
K Factor	0.749	

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA55 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters		
Receding/Rising, Tr/Tp	1.670	
Unit peak, qp	118.40 ft³/s	
Unit peak time, Tp	0.013 hours	
Unit receding limb, Tr	0.053 hours	
Total unit time, Tb	0.067 hours	

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA55 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.020 hours	
Area (User Defined)	2.090 acres	

Computational Time		0.003 hours
Increment	12,099 hours	
Time to Peak (Computed)	13.57 ft³/s	
Flow (Peak, Computed)	0.050 hours	
Output Increment	12,100 hours	
Time to Flow (Peak Interpolated Output)	13.54 ft³/s	
Flow (Peak Interpolated Output)		

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	2.090 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.0 in
Runoff Volume (Pervious)	1.037 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1.037 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.020 hours
Computational Time Increment	0.003 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA55 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	118.40 ft³/s
Unit peak time, Tp	0.013 hours
Unit receding limb, Tr	0.053 hours
Total unit time, Tb	0.067 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA55 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.020 hours
Area (User Defined)	2.090 acres

Computational Time Increment	0.003 hours
Time to Peak (Computed)	12.099 hours
Flow (Peak, Computed)	25.20 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.050 hours
Flow (Peak Interpolated Output)	25.15 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	2.090 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.2 in
Runoff Volume (Pervious)	1.956 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1.956 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.020 hours
Computational Time Increment	0.003 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA55 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	118.40 ft³/s
Unit peak time, Tp	0.013 hours
Unit receding limb, Tr	0.053 hours
Total unit time, Tb	0.067 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA55 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.095 hours
Area (User Defined)	0.410 acres

Computational Time Increment	0.013 hours
Time to Peak (Computed)	12.124 hours
Flow (Peak, Computed)	0.51 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.48 ft³/s

Drainage Area	
SCS CN (Composite)	67.000
Area (User Defined)	0.410 acres
Maximum Retention (Pervious)	4.9 in
Maximum Retention (Pervious, 20 percent)	1.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.1 in
Runoff Volume (Pervious)	0.037 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.037 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.095 hours
Computational Time Increment	0.013 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA55 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	4.91 ft³/s
Unit peak time, Tp	0.063 hours
Unit receding limb, Tr	0.252 hours
Total unit time, Tb	0.315 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA55 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.095 hours	
Area (User Defined)	0.410 acres	

Computational Time	
Increment	0.013 hours
Time to Peak (Computed)	12.124 hours
Flow (Peak, Computed)	1.31 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	1.26 ft ³ /s

Drainage Area	
SCS CN (Composite)	67.000
Area (User Defined)	0.410 acres
Maximum Retention (Pervious)	4.9 in
Maximum Retention (Pervious, 20 percent)	1.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.7 in
Runoff Volume (Pervious)	0.091 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.091 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.095 hours
Computational Time Increment	0.013 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA55 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, T _r /T _p	1.670
Unit peak, q _p	4.91 ft ³ /s
Unit peak time, T _p	0.063 hours
Unit receding limb, T _r	0.252 hours
Total unit time, T _b	0.315 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA55 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event		100yr Projected NOAA D
Return Event		100 years
Duration		48,000 hours
Depth		11.5 in
Time of Concentration (Composite)		0.095 hours
Area (User Defined)		0.410 acres

Computational Time	
Increment	0.013 hours
Time to Peak (Computed)	12.111 hours
Flow (Peak, Computed)	3.45 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	3.36 ft ³ /s

Drainage Area	
SCS CN (Composite)	67.000
Area (User Defined)	0.410 acres
Maximum Retention (Pervious)	4.9 in
Maximum Retention (Pervious, 20 percent)	1.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	7.1 in
Runoff Volume (Pervious)	0.244 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.244 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.095 hours
Computational Time Increment	0.013 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA55 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	4.91 ft ³ /s
Unit peak time, Tp	0.063 hours
Unit receding limb, Tr	0.252 hours
Total unit time, Tb	0.315 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA56 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event		2yr Projected NOAA D
Return Event	2 years	
Duration	48,000 hours	
Depth	3.9 in	
Time of Concentration (Composite)	0.028 hours	
Area (User Defined)	2.080 acres	

Computational Time		0.004 hours
Increment	12,097 hours	
Time to Peak (Computed)	8.40 ft³/s	
Flow (Peak, Computed)	0.050 hours	
Output Increment	12,100 hours	
Time to Flow (Peak Interpolated Output)	8.38 ft³/s	
Flow (Peak Interpolated Output)		

Drainage Area	
SCS CN (Composite)	97,000
Area (User Defined)	2.080 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.6 in
Runoff Volume (Pervious)	0.616 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.616 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.028 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA56 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters		1.670
Receding/Rising, Tr/Tp	82.91 ft³/s	
Unit peak, qp	0.019 hours	
Unit peak time, Tp	0.076 hours	
Unit receding limb, Tr	0.095 hours	
Total unit time, Tb		

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA56 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.028 hours	
Area (User Defined)	2.080 acres	

Computational Time		0.004 hours
Increment	12,097 hours	
Time to Peak (Computed)	13.45 ft³/s	
Flow (Peak, Computed)	0.050 hours	
Output Increment	12,100 hours	
Time to Flow (Peak Interpolated Output)	13.43 ft³/s	
Flow (Peak Interpolated Output)		

Drainage Area		
SCS CN (Composite)	97,000	
Area (User Defined)	2.080 acres	
Maximum Retention (Pervious)	0.3 in	
Maximum Retention (Pervious, 20 percent)	0.1 in	

Cumulative Runoff		
Cumulative Runoff Depth (Pervious)	5.8 in	
Runoff Volume (Pervious)	1.011 ac-ft	

Hydrograph Volume (Area under Hydrograph curve)		
Volume	1.011 ac-ft	

SCS Unit Hydrograph Parameters		
Time of Concentration (Composite)	0.028 hours	
Computational Time Increment	0.004 hours	
Unit Hydrograph Shape Factor	483.432	
K Factor	0.749	

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA56 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters		1.670
Receding/Rising, Tr/Tp	82.91 ft³/s	
Unit peak, qp	0.019 hours	
Unit peak time, Tp	0.076 hours	
Unit receding limb, Tr	0.095 hours	
Total unit time, Tb		

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA56 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.028 hours
Area (User Defined)	2.080 acres

Computational Time Increment	0.004 hours
Time to Peak (Computed)	12.097 hours
Flow (Peak, Computed)	25.05 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	25.00 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	2.080 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.1 in
Runoff Volume (Pervious)	1.925 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1.925 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.028 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA56 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	82.91 ft³/s
Unit peak time, Tp	0.019 hours
Unit receding limb, Tr	0.076 hours
Total unit time, Tb	0.095 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA56 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.060 hours
Area (User Defined)	0.280 acres

Computational Time	
Increment	0.008 hours
Time to Peak (Computed)	12.109 hours
Flow (Peak, Computed)	0.25 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.24 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.280 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	0.018 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.018 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.060 hours
Computational Time Increment	0.008 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA56 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	5.32 ft³/s
Unit peak time, Tp	0.040 hours
Unit receding limb, Tr	0.159 hours
Total unit time, Tb	0.199 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA56 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.060 hours	
Area (User Defined)	0.280 acres	

Computational Time	
Increment	0.008 hours
Time to Peak (Computed)	12.109 hours
Flow (Peak, Computed)	0.77 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.76 ft ³ /s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.280 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	0.050 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.050 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.060 hours
Computational Time Increment	0.008 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA56 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, T _r /T _p	1.670
Unit peak, q _p	5.32 ft ³ /s
Unit peak time, T _p	0.040 hours
Unit receding limb, T _r	0.159 hours
Total unit time, T _b	0.199 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA56 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.060 hours
Area (User Defined)	0.280 acres

Computational Time Increment	0.008 hours
Time to Peak (Computed)	12.101 hours
Flow (Peak, Computed)	2.25 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	2.24 ft ³ /s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.280 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	0.146 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.146 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.060 hours
Computational Time Increment	0.008 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA56 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	5.32 ft ³ /s
Unit peak time, Tp	0.040 hours
Unit receding limb, Tr	0.159 hours
Total unit time, Tb	0.199 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA57 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event		2yr Projected NOAA D
Return Event	2 years	
Duration	48,000 hours	
Depth	3.9 in	
Time of Concentration (Composite)	0.020 hours	
Area (User Defined)	0.840 acres	

Computational Time		0.003 hours
Increment	12,099 hours	
Time to Peak (Computed)	3.39 ft³/s	
Flow (Peak, Computed)	0.050 hours	
Output Increment	12,100 hours	
Time to Flow (Peak Interpolated Output)	3.38 ft³/s	
Flow (Peak Interpolated Output)		

Drainage Area		
SCS CN (Composite)	97,000	
Area (User Defined)	0.840 acres	
Maximum Retention (Pervious)	0.3 in	
Maximum Retention (Pervious, 20 percent)	0.1 in	

Cumulative Runoff		
Cumulative Runoff Depth (Pervious)	3.6 in	
Runoff Volume (Pervious)	0.249 ac-ft	

Hydrograph Volume (Area under Hydrograph curve)		
Volume	0.249 ac-ft	

SCS Unit Hydrograph Parameters		
Time of Concentration (Composite)	0.020 hours	
Computational Time Increment	0.003 hours	
Unit Hydrograph Shape Factor	483.432	
K Factor	0.749	

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA57 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters		
Receding/Rising, Tr/Tp	1.670	
Unit peak, qp	47.59 ft³/s	
Unit peak time, Tp	0.013 hours	
Unit receding limb, Tr	0.053 hours	
Total unit time, Tb	0.067 hours	

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA57 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.020 hours	
Area (User Defined)	0.840 acres	

Computational Time	
Increment	0.003 hours
Time to Peak (Computed)	12.099 hours
Flow (Peak, Computed)	5.43 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	5.42 ft ³ /s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.840 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.8 in
Runoff Volume (Pervious)	0.408 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.408 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.020 hours
Computational Time Increment	0.003 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA57 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	47.59 ft ³ /s
Unit peak time, Tp	0.013 hours
Unit receding limb, Tr	0.053 hours
Total unit time, Tb	0.067 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA57 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.020 hours
Area (User Defined)	0.840 acres

Computational Time Increment	0.003 hours
Time to Peak (Computed)	12.099 hours
Flow (Peak, Computed)	10.12 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	10.09 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.840 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.1 in
Runoff Volume (Pervious)	0.777 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.778 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.020 hours
Computational Time Increment	0.003 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA57 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	47.59 ft³/s
Unit peak time, Tp	0.013 hours
Unit receding limb, Tr	0.053 hours
Total unit time, Tb	0.067 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA57 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.020 hours
Area (User Defined)	0.080 acres

Computational Time Increment	0.003 hours
Time to Peak (Computed)	12.101 hours
Flow (Peak, Computed)	0.08 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.08 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.080 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	0.005 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.005 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.020 hours
Computational Time Increment	0.003 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA57 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	4.53 ft³/s
Unit peak time, Tp	0.013 hours
Unit receding limb, Tr	0.053 hours
Total unit time, Tb	0.067 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA57 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.020 hours	
Area (User Defined)	0.080 acres	

Computational Time		0.003 hours
Increment	12,099 hours	
Time to Peak (Computed)	0.23 ft³/s	
Flow (Peak, Computed)	0.050 hours	
Output Increment	12,100 hours	
Time to Flow (Peak Interpolated Output)	0.23 ft³/s	
Flow (Peak Interpolated Output)		

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.080 acres
Maximum Retention (Previous)	6.4 in
Maximum Retention (Previous, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Previous)	2.1 in
Runoff Volume (Previous)	0.014 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.014 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.020 hours
Computational Time Increment	0.003 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA57 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	4.53 ft³/s
Unit peak time, Tp	0.013 hours
Unit receding limb, Tr	0.053 hours
Total unit time, Tb	0.067 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA57 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.020 hours
Area (User Defined)	0.080 acres

Computational Time Increment	0.003 hours
Time to Peak (Computed)	12.099 hours
Flow (Peak, Computed)	0.67 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.67 ft ³ /s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.080 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	0.042 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.042 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.020 hours
Computational Time Increment	0.003 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA57 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	4.53 ft ³ /s
Unit peak time, Tp	0.013 hours
Unit receding limb, Tr	0.053 hours
Total unit time, Tb	0.067 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA58 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.048 hours
Area (User Defined)	1.570 acres

Computational Time	
Increment	0.006 hours
Time to Peak (Computed)	12.100 hours
Flow (Peak, Computed)	6.29 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	6.29 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	1.570 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.6 in
Runoff Volume (Pervious)	0.465 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.465 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.048 hours
Computational Time Increment	0.006 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA58 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	37.38 ft³/s
Unit peak time, Tp	0.032 hours
Unit receding limb, Tr	0.127 hours
Total unit time, Tb	0.159 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA58 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.048 hours	
Area (User Defined)	1.570 acres	

Computational Time	
Increment	0.006 hours
Time to Peak (Computed)	12.100 hours
Flow (Peak, Computed)	10.09 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	10.09 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	1.570 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.8 in
Runoff Volume (Pervious)	0.763 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.763 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.048 hours
Computational Time Increment	0.006 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA58 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	37.38 ft³/s
Unit peak time, Tp	0.032 hours
Unit receding limb, Tr	0.127 hours
Total unit time, Tb	0.159 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA58 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.048 hours
Area (User Defined)	1.570 acres

Computational Time Increment	0.006 hours
Time to Peak (Computed)	12.100 hours
Flow (Peak, Computed)	18.79 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	18.79 ft ³ /s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	1.570 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.1 in
Runoff Volume (Pervious)	1.453 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1.453 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.048 hours
Computational Time Increment	0.006 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA58 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	37.38 ft ³ /s
Unit peak time, Tp	0.032 hours
Unit receding limb, Tr	0.127 hours
Total unit time, Tb	0.159 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA58 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.180 hours
Area (User Defined)	1.570 acres

Computational Time Increment	0.024 hours
Time to Peak (Computed)	12.159 hours
Flow (Peak, Computed)	1.76 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.150 hours
Flow (Peak Interpolated Output)	1.72 ft³/s

Drainage Area	
SCS CN (Composite)	69.000
Area (User Defined)	1.570 acres
Maximum Retention (Pervious)	4.5 in
Maximum Retention (Pervious, 20 percent)	0.9 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.2 in
Runoff Volume (Pervious)	0.157 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.157 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.180 hours
Computational Time Increment	0.024 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA58 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	9.87 ft³/s
Unit peak time, Tp	0.120 hours
Unit receding limb, Tr	0.481 hours
Total unit time, Tb	0.601 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA58 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.180 hours	
Area (User Defined)	1.570 acres	

Computational Time	
Increment	0.024 hours
Time to Peak (Computed)	12.159 hours
Flow (Peak, Computed)	4.40 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.150 hours
Flow (Peak Interpolated Output)	4.34 ft ³ /s

Drainage Area	
SCS CN (Composite)	69.000
Area (User Defined)	1.570 acres
Maximum Retention (Previous)	4.5 in
Maximum Retention (Previous, 20 percent)	0.9 in

Cumulative Runoff	
Cumulative Runoff Depth (Previous)	2.9 in
Runoff Volume (Previous)	0.374 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.374 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.180 hours
Computational Time Increment	0.024 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA58 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	9.87 ft ³ /s
Unit peak time, Tp	0.120 hours
Unit receding limb, Tr	0.481 hours
Total unit time, Tb	0.601 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA58 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.180 hours
Area (User Defined)	1.570 acres

Computational Time Increment	0.024 hours
Time to Peak (Computed)	12.159 hours
Flow (Peak, Computed)	11.32 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.150 hours
Flow (Peak Interpolated Output)	11.20 ft ³ /s

Drainage Area	
SCS CN (Composite)	69.000
Area (User Defined)	1.570 acres
Maximum Retention (Pervious)	4.5 in
Maximum Retention (Pervious, 20 percent)	0.9 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	7.4 in
Runoff Volume (Pervious)	0.971 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.970 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.180 hours
Computational Time Increment	0.024 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA58 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	9.87 ft ³ /s
Unit peak time, Tp	0.120 hours
Unit receding limb, Tr	0.481 hours
Total unit time, Tb	0.601 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA59 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.055 hours
Area (User Defined)	1.020 acres

Computational Time	
Increment	0.007 hours
Time to Peak (Computed)	12.097 hours
Flow (Peak, Computed)	4.09 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	4.09 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	1.020 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.7 in
Runoff Volume (Pervious)	0.312 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.312 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.055 hours
Computational Time Increment	0.007 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA59 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	21.16 ft³/s
Unit peak time, Tp	0.036 hours
Unit receding limb, Tr	0.146 hours
Total unit time, Tb	0.182 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA59 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.055 hours	
Area (User Defined)	1.020 acres	

Computational Time	
Increment	0.007 hours
Time to Peak (Computed)	12.097 hours
Flow (Peak, Computed)	6.53 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	6.52 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	1.020 acres
Maximum Retention (Previous)	0.2 in
Maximum Retention (Previous, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Previous)	6.0 in
Runoff Volume (Previous)	0.506 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.506 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.055 hours
Computational Time Increment	0.007 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA59 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	21.16 ft³/s
Unit peak time, Tp	0.036 hours
Unit receding limb, Tr	0.146 hours
Total unit time, Tb	0.182 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA59 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.055 hours
Area (User Defined)	1.020 acres

Computational Time Increment	0.007 hours
Time to Peak (Computed)	12.097 hours
Flow (Peak, Computed)	12.12 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	12.11 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	1.020 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.2 in
Runoff Volume (Pervious)	0.954 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.954 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.055 hours
Computational Time Increment	0.007 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA59 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	21.16 ft³/s
Unit peak time, Tp	0.036 hours
Unit receding limb, Tr	0.146 hours
Total unit time, Tb	0.182 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA59 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.284 hours
Area (User Defined)	1.840 acres

Computational Time Increment	0.038 hours
Time to Peak (Computed)	12.243 hours
Flow (Peak, Computed)	2.01 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.250 hours
Flow (Peak Interpolated Output)	1.99 ft ³ /s

Drainage Area	
SCS CN (Composite)	72.000
Area (User Defined)	1.840 acres
Maximum Retention (Pervious)	3.9 in
Maximum Retention (Pervious, 20 percent)	0.8 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.4 in
Runoff Volume (Pervious)	0.213 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.213 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.284 hours
Computational Time Increment	0.038 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA59 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	7.33 ft ³ /s
Unit peak time, Tp	0.190 hours
Unit receding limb, Tr	0.758 hours
Total unit time, Tb	0.948 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA59 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.284 hours	
Area (User Defined)	1.840 acres	

Computational Time		0.038 hours
Increment	12.205 hours	
Time to Peak (Computed)	4.70 ft³/s	
Flow (Peak, Computed)	0.050 hours	
Output Increment	12.200 hours	
Time to Flow (Peak Interpolated Output)	4.66 ft³/s	
Flow (Peak Interpolated Output)		

Drainage Area		
SCS CN (Composite)	72.000	
Area (User Defined)	1.840 acres	
Maximum Retention (Pervious)	3.9 in	
Maximum Retention (Pervious, 20 percent)	0.8 in	

Cumulative Runoff		
Cumulative Runoff Depth (Pervious)	3.1 in	
Runoff Volume (Pervious)	0.483 ac-ft	

Hydrograph Volume (Area under Hydrograph curve)		
Volume	0.483 ac-ft	

SCS Unit Hydrograph Parameters		
Time of Concentration (Composite)	0.284 hours	
Computational Time Increment	0.038 hours	
Unit Hydrograph Shape Factor	483.432	
K Factor	0.749	

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA59 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters		1.670
Receding/Rising, Tr/Tp	7.33 ft³/s	
Unit peak, qp	0.190 hours	
Unit peak time, Tp	0.758 hours	
Unit receding limb, Tr	0.948 hours	
Total unit time, Tb		

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA59 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.284 hours
Area (User Defined)	1.840 acres

Computational Time Increment	0.038 hours
Time to Peak (Computed)	12.205 hours
Flow (Peak, Computed)	11.59 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.200 hours
Flow (Peak Interpolated Output)	11.51 ft ³ /s

Drainage Area	
SCS CN (Composite)	72.000
Area (User Defined)	1.840 acres
Maximum Retention (Pervious)	3.9 in
Maximum Retention (Pervious, 20 percent)	0.8 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	7.8 in
Runoff Volume (Pervious)	1.202 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1.202 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.284 hours
Computational Time Increment	0.038 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA59 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	7.33 ft ³ /s
Unit peak time, Tp	0.190 hours
Unit receding limb, Tr	0.758 hours
Total unit time, Tb	0.948 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA6 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event		2yr Projected NOAA D
Return Event	2 years	
Duration	48,000 hours	
Depth	3.9 in	
Time of Concentration (Composite)	0.074 hours	
Area (User Defined)	0.490 acres	

Computational Time		0.010 hours
Increment	12.107 hours	
Time to Peak (Computed)	1.90 ft³/s	
Flow (Peak, Computed)	0.050 hours	
Output Increment	12.100 hours	
Time to Flow (Peak Interpolated Output)	1.89 ft³/s	
Flow (Peak Interpolated Output)		

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.490 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.6 in
Runoff Volume (Pervious)	0.145 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.145 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.074 hours
Computational Time Increment	0.010 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA6 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	7.50 ft³/s
Unit peak time, Tp	0.049 hours
Unit receding limb, Tr	0.198 hours
Total unit time, Tb	0.247 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA6 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.074 hours	
Area (User Defined)	0.490 acres	

Computational Time	
Increment	0.010 hours
Time to Peak (Computed)	12.107 hours
Flow (Peak, Computed)	3.04 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	3.02 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.490 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.8 in
Runoff Volume (Pervious)	0.238 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.238 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.074 hours
Computational Time Increment	0.010 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA6 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	7.50 ft³/s
Unit peak time, Tp	0.049 hours
Unit receding limb, Tr	0.198 hours
Total unit time, Tb	0.247 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA6 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.074 hours
Area (User Defined)	0.490 acres

Computational Time Increment	0.010 hours
Time to Peak (Computed)	12.107 hours
Flow (Peak, Computed)	5.66 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	5.63 ft ³ /s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.490 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.1 in
Runoff Volume (Pervious)	0.454 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.454 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.074 hours
Computational Time Increment	0.010 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA6 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	7.50 ft ³ /s
Unit peak time, Tp	0.049 hours
Unit receding limb, Tr	0.198 hours
Total unit time, Tb	0.247 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA6 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

2yr Projected NOAA D	
Storm Event	2 years
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.074 hours
Area (User Defined)	0.220 acres

Computational Time Increment	0.010 hours
Time to Peak (Computed)	12.117 hours
Flow (Peak, Computed)	0.18 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.18 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.220 acres
Maximum Retention (Previous)	6.4 in
Maximum Retention (Previous, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Previous)	0.8 in
Runoff Volume (Previous)	0.014 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.014 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.074 hours
Computational Time Increment	0.010 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA6 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.37 ft³/s
Unit peak time, Tp	0.049 hours
Unit receding limb, Tr	0.198 hours
Total unit time, Tb	0.247 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA6 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.074 hours	
Area (User Defined)	0.220 acres	

Computational Time	
Increment	0.010 hours
Time to Peak (Computed)	12.117 hours
Flow (Peak, Computed)	0.58 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.57 ft ³ /s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.220 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	0.039 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.039 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.074 hours
Computational Time Increment	0.010 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA6 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, T _r /T _p	1.670
Unit peak, q _p	3.37 ft ³ /s
Unit peak time, T _p	0.049 hours
Unit receding limb, T _r	0.198 hours
Total unit time, T _b	0.247 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA6 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.074 hours
Area (User Defined)	0.220 acres

Computational Time Increment	0.010 hours
Time to Peak (Computed)	12.107 hours
Flow (Peak, Computed)	1.72 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	1.70 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.220 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	0.115 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.115 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.074 hours
Computational Time Increment	0.010 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA6 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.37 ft³/s
Unit peak time, Tp	0.049 hours
Unit receding limb, Tr	0.198 hours
Total unit time, Tb	0.247 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA60 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event		2yr Projected NOAA D
Return Event	2 years	
Duration	48,000 hours	
Depth	3.9 in	
Time of Concentration (Composite)	0.020 hours	
Area (User Defined)	1.320 acres	

Computational Time		0.003 hours
Increment	12,099 hours	
Time to Peak (Computed)	5.33 ft³/s	
Flow (Peak, Computed)	0.050 hours	
Output Increment	12,100 hours	
Time to Flow (Peak Interpolated Output)	5.32 ft³/s	
Flow (Peak Interpolated Output)		

Drainage Area		
SCS CN (Composite)	97,000	
Area (User Defined)	1.320 acres	
Maximum Retention (Pervious)	0.3 in	
Maximum Retention (Pervious, 20 percent)	0.1 in	

Cumulative Runoff		
Cumulative Runoff Depth (Pervious)	3.6 in	
Runoff Volume (Pervious)	0.391 ac-ft	

Hydrograph Volume (Area under Hydrograph curve)		
Volume	0.391 ac-ft	

SCS Unit Hydrograph Parameters		
Time of Concentration (Composite)	0.020 hours	
Computational Time Increment	0.003 hours	
Unit Hydrograph Shape Factor	483.432	
K Factor	0.749	

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA60 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters		1.670
Receding/Rising, Tr/Tp	74.78 ft³/s	
Unit peak, qp	0.013 hours	
Unit peak time, Tp	0.053 hours	
Unit receding limb, Tr	0.067 hours	
Total unit time, Tb		

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA60 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.020 hours	
Area (User Defined)	1.320 acres	

Computational Time	
Increment	0.003 hours
Time to Peak (Computed)	12.099 hours
Flow (Peak, Computed)	8.54 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	8.52 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	1.320 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.8 in
Runoff Volume (Pervious)	0.642 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.642 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.020 hours
Computational Time Increment	0.003 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA60 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	74.78 ft³/s
Unit peak time, Tp	0.013 hours
Unit receding limb, Tr	0.053 hours
Total unit time, Tb	0.067 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA60 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.020 hours
Area (User Defined)	1.320 acres

Computational Time Increment	0.003 hours
Time to Peak (Computed)	12.099 hours
Flow (Peak, Computed)	15.90 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	15.86 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	1.320 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.1 in
Runoff Volume (Pervious)	1.222 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1.222 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.020 hours
Computational Time Increment	0.003 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA60 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	74.78 ft³/s
Unit peak time, Tp	0.013 hours
Unit receding limb, Tr	0.053 hours
Total unit time, Tb	0.067 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA60 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.020 hours
Area (User Defined)	0.230 acres

Computational Time	
Increment	0.003 hours
Time to Peak (Computed)	12.101 hours
Flow (Peak, Computed)	0.22 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.22 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.230 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	0.015 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.015 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.020 hours
Computational Time Increment	0.003 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA60 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	13.03 ft³/s
Unit peak time, Tp	0.013 hours
Unit receding limb, Tr	0.053 hours
Total unit time, Tb	0.067 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA60 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.020 hours	
Area (User Defined)	0.230 acres	

Computational Time	
Increment	0.003 hours
Time to Peak (Computed)	12.099 hours
Flow (Peak, Computed)	0.67 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.67 ft ³ /s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.230 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	0.041 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.041 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.020 hours
Computational Time Increment	0.003 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA60 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	13.03 ft ³ /s
Unit peak time, Tp	0.013 hours
Unit receding limb, Tr	0.053 hours
Total unit time, Tb	0.067 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA60 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.020 hours
Area (User Defined)	0.230 acres

Computational Time Increment	0.003 hours
Time to Peak (Computed)	12.099 hours
Flow (Peak, Computed)	1.93 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	1.93 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.230 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	0.120 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.120 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.020 hours
Computational Time Increment	0.003 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA60 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	13.03 ft³/s
Unit peak time, Tp	0.013 hours
Unit receding limb, Tr	0.053 hours
Total unit time, Tb	0.067 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA61 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event		2yr Projected NOAA D
Return Event	2 years	
Duration	48,000 hours	
Depth	3.9 in	
Time of Concentration (Composite)	0.030 hours	
Area (User Defined)	0.520 acres	

Computational Time		0.004 hours
Increment	12,097 hours	
Time to Peak (Computed)	2.12 ft³/s	
Flow (Peak, Computed)	0.050 hours	
Output Increment	12,100 hours	
Time to Flow (Peak Interpolated Output)	2.11 ft³/s	
Flow (Peak Interpolated Output)		

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.520 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.7 in
Runoff Volume (Pervious)	0.159 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.159 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.030 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA61 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	19.42 ft³/s
Unit peak time, Tp	0.020 hours
Unit receding limb, Tr	0.081 hours
Total unit time, Tb	0.101 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA61 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.030 hours	
Area (User Defined)	0.520 acres	

Computational Time	
Increment	0.004 hours
Time to Peak (Computed)	12.097 hours
Flow (Peak, Computed)	3.38 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	3.37 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.520 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.0 in
Runoff Volume (Pervious)	0.258 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.258 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.030 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA61 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	19.42 ft³/s
Unit peak time, Tp	0.020 hours
Unit receding limb, Tr	0.081 hours
Total unit time, Tb	0.101 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA61 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.030 hours
Area (User Defined)	0.520 acres

Computational Time Increment	0.004 hours
Time to Peak (Computed)	12.097 hours
Flow (Peak, Computed)	6.27 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	6.26 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.520 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.2 in
Runoff Volume (Pervious)	0.487 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.487 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.030 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA61 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	19.42 ft³/s
Unit peak time, Tp	0.020 hours
Unit receding limb, Tr	0.081 hours
Total unit time, Tb	0.101 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA61 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.030 hours
Area (User Defined)	0.060 acres

Computational Time Increment	0.004 hours
Time to Peak (Computed)	12.101 hours
Flow (Peak, Computed)	0.06 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.06 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.060 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	0.004 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.004 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.030 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA61 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	2.24 ft³/s
Unit peak time, Tp	0.020 hours
Unit receding limb, Tr	0.081 hours
Total unit time, Tb	0.101 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA61 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.030 hours	
Area (User Defined)	0.060 acres	

Computational Time	
Increment	0.004 hours
Time to Peak (Computed)	12.101 hours
Flow (Peak, Computed)	0.17 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.17 ft ³ /s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.060 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	0.011 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.011 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.030 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA61 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	2.24 ft ³ /s
Unit peak time, Tp	0.020 hours
Unit receding limb, Tr	0.081 hours
Total unit time, Tb	0.101 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA61 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.030 hours
Area (User Defined)	0.060 acres

Computational Time Increment	0.004 hours
Time to Peak (Computed)	12.101 hours
Flow (Peak, Computed)	0.50 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.50 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.060 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	0.031 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.031 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.030 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA61 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	2.24 ft³/s
Unit peak time, Tp	0.020 hours
Unit receding limb, Tr	0.081 hours
Total unit time, Tb	0.101 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA62 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event		2yr Projected NOAA D
Return Event	2 years	
Duration	48,000 hours	
Depth	3.9 in	
Time of Concentration (Composite)	0.029 hours	
Area (User Defined)	1,400 acres	

Computational Time		0.004 hours
Increment	12,098 hours	
Time to Peak (Computed)	5.70 ft³/s	
Flow (Peak, Computed)	0.050 hours	
Output Increment	12,100 hours	
Time to Flow (Peak Interpolated Output)	5.69 ft³/s	
Flow (Peak Interpolated Output)		

Drainage Area		
SCS CN (Composite)	98,000	
Area (User Defined)	1,400 acres	
Maximum Retention (Pervious)	0.2 in	
Maximum Retention (Pervious, 20 percent)	0.0 in	

Cumulative Runoff		
Cumulative Runoff Depth (Pervious)	3.7 in	
Runoff Volume (Pervious)	0.428 ac-ft	

Hydrograph Volume (Area under Hydrograph curve)		
Volume	0.428 ac-ft	

SCS Unit Hydrograph Parameters		
Time of Concentration (Composite)	0.029 hours	
Computational Time Increment	0.004 hours	
Unit Hydrograph Shape Factor	483.432	
K Factor	0.749	

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA62 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters		
Receding/Rising, Tr/Tp	1.670	
Unit peak, qp	53.88 ft³/s	
Unit peak time, Tp	0.020 hours	
Unit receding limb, Tr	0.079 hours	
Total unit time, Tb	0.098 hours	

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA62 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.029 hours	
Area (User Defined)	1,400 acres	

Computational Time		0.004 hours
Increment	12,098 hours	
Time to Peak (Computed)	9.09 ft³/s	
Flow (Peak, Computed)	0.050 hours	
Output Increment	12,100 hours	
Time to Flow (Peak Interpolated Output)	9.07 ft³/s	
Flow (Peak Interpolated Output)		

Drainage Area		
SCS CN (Composite)	98.000	
Area (User Defined)	1,400 acres	
Maximum Retention (Pervious)	0.2 in	
Maximum Retention (Pervious, 20 percent)	0.0 in	

Cumulative Runoff		
Cumulative Runoff Depth (Pervious)	6.0 in	
Runoff Volume (Pervious)	0.694 ac-ft	

Hydrograph Volume (Area under Hydrograph curve)		
Volume	0.694 ac-ft	

SCS Unit Hydrograph Parameters		
Time of Concentration (Composite)	0.029 hours	
Computational Time Increment	0.004 hours	
Unit Hydrograph Shape Factor	483.432	
K Factor	0.749	

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA62 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters		
Receding/Rising, Tr/Tp	1.670	
Unit peak, qp	53.88 ft³/s	
Unit peak time, Tp	0.020 hours	
Unit receding limb, Tr	0.079 hours	
Total unit time, Tb	0.098 hours	

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA62 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.029 hours
Area (User Defined)	1,400 acres

Computational Time Increment	0.004 hours
Time to Peak (Computed)	12.098 hours
Flow (Peak, Computed)	16.88 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	16.84 ft ³ /s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	1,400 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.2 in
Runoff Volume (Pervious)	1,310 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,310 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.029 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA62 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	53.88 ft ³ /s
Unit peak time, Tp	0.020 hours
Unit receding limb, Tr	0.079 hours
Total unit time, Tb	0.098 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA62 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event		2yr Projected NOAA D
Return Event	2 years	
Duration	48,000 hours	
Depth	3.9 in	
Time of Concentration (Composite)	0.029 hours	
Area (User Defined)	0.120 acres	

Computational Time		0.004 hours
Increment	12.102 hours	
Time to Peak (Computed)	0.11 ft³/s	
Flow (Peak, Computed)	0.050 hours	
Output Increment	12.100 hours	
Time to Flow (Peak Interpolated Output)	0.11 ft³/s	
Flow (Peak Interpolated Output)		

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.120 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	0.008 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.008 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.029 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA62 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	4.62 ft³/s
Unit peak time, Tp	0.020 hours
Unit receding limb, Tr	0.079 hours
Total unit time, Tb	0.098 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA62 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.029 hours	
Area (User Defined)	0.120 acres	

Computational Time	
Increment	0.004 hours
Time to Peak (Computed)	12.102 hours
Flow (Peak, Computed)	0.35 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.35 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.120 acres
Maximum Retention (Previous)	6.4 in
Maximum Retention (Previous, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Previous)	2.1 in
Runoff Volume (Previous)	0.021 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.021 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.029 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA62 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	4.62 ft³/s
Unit peak time, Tp	0.020 hours
Unit receding limb, Tr	0.079 hours
Total unit time, Tb	0.098 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA62 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.029 hours
Area (User Defined)	0.120 acres

Computational Time Increment	0.004 hours
Time to Peak (Computed)	12.098 hours
Flow (Peak, Computed)	1.00 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	1.00 ft ³ /s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.120 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	0.063 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.063 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.029 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA62 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	4.62 ft ³ /s
Unit peak time, Tp	0.020 hours
Unit receding limb, Tr	0.079 hours
Total unit time, Tb	0.098 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA63 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.030 hours
Area (User Defined)	1,000 acres

Computational Time Increment	0.004 hours
Time to Peak (Computed)	12.099 hours
Flow (Peak, Computed)	4.07 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	4.06 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	1,000 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.7 in
Runoff Volume (Pervious)	0.305 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.305 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.030 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA63 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	37.32 ft³/s
Unit peak time, Tp	0.020 hours
Unit receding limb, Tr	0.081 hours
Total unit time, Tb	0.101 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA63 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.030 hours	
Area (User Defined)	1,000 acres	

Computational Time	
Increment	0.004 hours
Time to Peak (Computed)	12.099 hours
Flow (Peak, Computed)	6.49 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	6.48 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	1,000 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.0 in
Runoff Volume (Pervious)	0.496 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.496 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.030 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA63 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	37.32 ft³/s
Unit peak time, Tp	0.020 hours
Unit receding limb, Tr	0.081 hours
Total unit time, Tb	0.101 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA63 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.030 hours
Area (User Defined)	1,000 acres

Computational Time Increment	0.004 hours
Time to Peak (Computed)	12.099 hours
Flow (Peak, Computed)	12.06 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	12.03 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	1,000 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.2 in
Runoff Volume (Pervious)	0.936 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.936 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.030 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA63 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	37.32 ft³/s
Unit peak time, Tp	0.020 hours
Unit receding limb, Tr	0.081 hours
Total unit time, Tb	0.101 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA7 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.050 hours
Area (User Defined)	0.400 acres

Computational Time Increment	0.007 hours
Time to Peak (Computed)	12.102 hours
Flow (Peak, Computed)	1.60 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	1.60 ft³/s

Drainage Area	
SCS CN (Composite)	97,000
Area (User Defined)	0.400 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.6 in
Runoff Volume (Pervious)	0.118 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.118 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.050 hours
Computational Time Increment	0.007 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA7 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	9.03 ft³/s
Unit peak time, Tp	0.033 hours
Unit receding limb, Tr	0.134 hours
Total unit time, Tb	0.167 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA7 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.050 hours	
Area (User Defined)	0.400 acres	

Computational Time		0.007 hours
Increment	12.102 hours	
Time to Peak (Computed)	2.56 ft³/s	
Flow (Peak, Computed)	0.050 hours	
Output Increment	12.100 hours	
Time to Flow (Peak Interpolated Output)	2.56 ft³/s	
Flow (Peak Interpolated Output)		

Drainage Area		
SCS CN (Composite)	97,000	
Area (User Defined)	0.400 acres	
Maximum Retention (Pervious)	0.3 in	
Maximum Retention (Pervious, 20 percent)	0.1 in	

Cumulative Runoff		
Cumulative Runoff Depth (Pervious)	5.8 in	
Runoff Volume (Pervious)	0.194 ac-ft	

Hydrograph Volume (Area under Hydrograph curve)		
Volume	0.194 ac-ft	

SCS Unit Hydrograph Parameters		
Time of Concentration (Composite)	0.050 hours	
Computational Time Increment	0.007 hours	
Unit Hydrograph Shape Factor	483.432	
K Factor	0.749	

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA7 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters		
Receding/Rising, Tr/Tp	1.670	
Unit peak, qp	9.03 ft³/s	
Unit peak time, Tp	0.033 hours	
Unit receding limb, Tr	0.134 hours	
Total unit time, Tb	0.167 hours	

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA7 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.050 hours
Area (User Defined)	0.400 acres

Computational Time Increment	0.007 hours
Time to Peak (Computed)	12.102 hours
Flow (Peak, Computed)	4.77 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	4.77 ft ³ /s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.400 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.1 in
Runoff Volume (Pervious)	0.370 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.370 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.050 hours
Computational Time Increment	0.007 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA7 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	9.03 ft ³ /s
Unit peak time, Tp	0.033 hours
Unit receding limb, Tr	0.134 hours
Total unit time, Tb	0.167 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA7 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.050 hours
Area (User Defined)	0.210 acres

Computational Time Increment	0.007 hours
Time to Peak (Computed)	12.109 hours
Flow (Peak, Computed)	0.19 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.19 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.210 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	0.013 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.013 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.050 hours
Computational Time Increment	0.007 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA7 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	4.74 ft³/s
Unit peak time, Tp	0.033 hours
Unit receding limb, Tr	0.134 hours
Total unit time, Tb	0.167 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA7 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.050 hours	
Area (User Defined)	0.210 acres	

Computational Time	
Increment	0.007 hours
Time to Peak (Computed)	12.102 hours
Flow (Peak, Computed)	0.58 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.58 ft ³ /s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.210 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	0.037 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.037 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.050 hours
Computational Time Increment	0.007 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA7 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	4.74 ft ³ /s
Unit peak time, Tp	0.033 hours
Unit receding limb, Tr	0.134 hours
Total unit time, Tb	0.167 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA7 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.050 hours
Area (User Defined)	0.210 acres

Computational Time	
Increment	0.007 hours
Time to Peak (Computed)	12.102 hours
Flow (Peak, Computed)	1.71 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	1.71 ft ³ /s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.210 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	0.110 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.110 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.050 hours
Computational Time Increment	0.007 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA7 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	4.74 ft ³ /s
Unit peak time, Tp	0.033 hours
Unit receding limb, Tr	0.134 hours
Total unit time, Tb	0.167 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA9 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event		2yr Projected NOAA D
Return Event	2 years	
Duration	48,000 hours	
Depth	3.9 in	
Time of Concentration (Composite)	0.026 hours	
Area (User Defined)	0.490 acres	

Computational Time		0.004 hours
Increment	12,098 hours	
Time to Peak (Computed)	1.96 ft³/s	
Flow (Peak, Computed)	0.050 hours	
Output Increment	12,100 hours	
Time to Flow (Peak Interpolated Output)	1.95 ft³/s	
Flow (Peak Interpolated Output)		

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.490 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.4 in
Runoff Volume (Pervious)	0.141 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.141 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.026 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA9 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	21.11 ft³/s
Unit peak time, Tp	0.018 hours
Unit receding limb, Tr	0.070 hours
Total unit time, Tb	0.088 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA9 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.026 hours	
Area (User Defined)	0.490 acres	

Computational Time	
Increment	0.004 hours
Time to Peak (Computed)	12.098 hours
Flow (Peak, Computed)	3.15 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	3.15 ft ³ /s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.490 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.7 in
Runoff Volume (Pervious)	0.233 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.233 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.026 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA9 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, T _r /T _p	1.670
Unit peak, q _p	21.11 ft ³ /s
Unit peak time, T _p	0.018 hours
Unit receding limb, T _r	0.070 hours
Total unit time, T _b	0.088 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA9 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.026 hours
Area (User Defined)	0.490 acres

Computational Time Increment	0.004 hours
Time to Peak (Computed)	12.098 hours
Flow (Peak, Computed)	5.89 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	5.88 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.490 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.0 in
Runoff Volume (Pervious)	0.449 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.449 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.026 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA9 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	21.11 ft³/s
Unit peak time, Tp	0.018 hours
Unit receding limb, Tr	0.070 hours
Total unit time, Tb	0.088 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA9 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.119 hours
Area (User Defined)	0.150 acres

Computational Time Increment	0.016 hours
Time to Peak (Computed)	12.134 hours
Flow (Peak, Computed)	0.11 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.150 hours
Flow (Peak Interpolated Output)	0.11 ft ³ /s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.150 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	0.010 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.010 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.119 hours
Computational Time Increment	0.016 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA9 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.42 ft ³ /s
Unit peak time, Tp	0.080 hours
Unit receding limb, Tr	0.318 hours
Total unit time, Tb	0.398 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA9 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.119 hours	
Area (User Defined)	0.150 acres	

Computational Time	
Increment	0.016 hours
Time to Peak (Computed)	12.134 hours
Flow (Peak, Computed)	0.35 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.150 hours
Flow (Peak Interpolated Output)	0.34 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.150 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	0.027 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.027 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.119 hours
Computational Time Increment	0.016 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA9 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.42 ft³/s
Unit peak time, Tp	0.080 hours
Unit receding limb, Tr	0.318 hours
Total unit time, Tb	0.398 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA9 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.119 hours
Area (User Defined)	0.150 acres

Computational Time Increment	0.016 hours
Time to Peak (Computed)	12.134 hours
Flow (Peak, Computed)	1.06 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.150 hours
Flow (Peak Interpolated Output)	1.01 ft ³ /s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.150 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	0.078 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.078 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.119 hours
Computational Time Increment	0.016 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: DA9 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.42 ft ³ /s
Unit peak time, Tp	0.080 hours
Unit receding limb, Tr	0.318 hours
Total unit time, Tb	0.398 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: EDA3 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event		2yr Projected NOAA D
Return Event	2 years	
Duration	48,000 hours	
Depth	3.9 in	
Time of Concentration (Composite)	0.090 hours	
Area (User Defined)	3.890 acres	

Computational Time		0.012 hours
Increment	12.119 hours	
Time to Peak (Computed)	3.37 ft³/s	
Flow (Peak, Computed)	0.050 hours	
Output Increment	12.100 hours	
Time to Flow (Peak Interpolated Output)	3.14 ft³/s	
Flow (Peak Interpolated Output)		

Drainage Area	
SCS CN (Composite)	62.000
Area (User Defined)	3.890 acres
Maximum Retention (Pervious)	6.1 in
Maximum Retention (Pervious, 20 percent)	1.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	0.263 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.263 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.090 hours
Computational Time Increment	0.012 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: EDA3 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	48.93 ft³/s
Unit peak time, Tp	0.060 hours
Unit receding limb, Tr	0.240 hours
Total unit time, Tb	0.300 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: EDA3 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.090 hours	
Area (User Defined)	3.890 acres	

Computational Time	
Increment	0.012 hours
Time to Peak (Computed)	12.119 hours
Flow (Peak, Computed)	10.33 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	9.93 ft³/s

Drainage Area	
SCS CN (Composite)	62.000
Area (User Defined)	3.890 acres
Maximum Retention (Pervious)	6.1 in
Maximum Retention (Pervious, 20 percent)	1.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.2 in
Runoff Volume (Pervious)	0.720 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.720 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.090 hours
Computational Time Increment	0.012 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: EDA3 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	48.93 ft³/s
Unit peak time, Tp	0.060 hours
Unit receding limb, Tr	0.240 hours
Total unit time, Tb	0.300 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: EDA3 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.090 hours
Area (User Defined)	3.890 acres
Computational Time	
Increment	0.012 hours
Time to Peak (Computed)	12.119 hours
Flow (Peak, Computed)	29.95 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	29.27 ft³/s

Drainage Area	
SCS CN (Composite)	62.000
Area (User Defined)	3.890 acres
Maximum Retention (Pervious)	6.1 in
Maximum Retention (Pervious, 20 percent)	1.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.4 in
Runoff Volume (Pervious)	2.078 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	2.078 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.090 hours
Computational Time Increment	0.012 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: EDA3 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	48.93 ft³/s
Unit peak time, Tp	0.060 hours
Unit receding limb, Tr	0.240 hours
Total unit time, Tb	0.300 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: Ex DA-6 Perv (S Brunswick)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event		2yr Projected NOAA D
Return Event	2 years	
Duration	48,000 hours	
Depth	3.9 in	
Time of Concentration (Composite)	0.180 hours	
Area (User Defined)	3.640 acres	

Computational Time		0.024 hours
Increment	12.191 hours	
Time to Peak (Computed)	1.62 ft³/s	
Flow (Peak, Computed)	0.050 hours	
Output Increment	12.200 hours	
Time to Flow (Peak Interpolated Output)	1.59 ft³/s	
Flow (Peak Interpolated Output)		

Drainage Area	
SCS CN (Composite)	58.000
Area (User Defined)	3.640 acres
Maximum Retention (Pervious)	7.2 in
Maximum Retention (Pervious, 20 percent)	1.4 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.6 in
Runoff Volume (Pervious)	0.188 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.188 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.180 hours
Computational Time Increment	0.024 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: Ex DA-6 Perv (S Brunswick)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	22.92 ft³/s
Unit peak time, Tp	0.120 hours
Unit receding limb, Tr	0.480 hours
Total unit time, Tb	0.600 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: Ex DA-6 Perv (S Brunswick)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.180 hours	
Area (User Defined)	3.640 acres	

Computational Time	
Increment	0.024 hours
Time to Peak (Computed)	12.167 hours
Flow (Peak, Computed)	6.39 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.150 hours
Flow (Peak Interpolated Output)	6.24 ft ³ /s

Drainage Area	
SCS CN (Composite)	58.000
Area (User Defined)	3.640 acres
Maximum Retention (Pervious)	7.2 in
Maximum Retention (Pervious, 20 percent)	1.4 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.9 in
Runoff Volume (Pervious)	0.569 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.569 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.180 hours
Computational Time Increment	0.024 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: Ex DA-6 Perv (S Brunswick)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	22.92 ft ³ /s
Unit peak time, Tp	0.120 hours
Unit receding limb, Tr	0.480 hours
Total unit time, Tb	0.600 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: Ex DA-6 Perv (S Brunswick)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.180 hours
Area (User Defined)	3.640 acres

Computational Time Increment	0.024 hours
Time to Peak (Computed)	12.167 hours
Flow (Peak, Computed)	20.83 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.150 hours
Flow (Peak Interpolated Output)	20.62 ft ³ /s

Drainage Area	
SCS CN (Composite)	58.000
Area (User Defined)	3.640 acres
Maximum Retention (Pervious)	7.2 in
Maximum Retention (Pervious, 20 percent)	1.4 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.8 in
Runoff Volume (Pervious)	1.765 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1.764 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.180 hours
Computational Time Increment	0.024 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: Ex DA-6 Perv (S Brunswick)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	22.92 ft ³ /s
Unit peak time, Tp	0.120 hours
Unit receding limb, Tr	0.480 hours
Total unit time, Tb	0.600 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: Future Imp Road-Basin 6 (S Brunswick)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event		2yr Projected NOAA D
Return Event	2 years	
Duration	48,000 hours	
Depth	3.9 in	
Time of Concentration (Composite)	0.028 hours	
Area (User Defined)	0.300 acres	

Computational Time		0.004 hours
Increment	12,097 hours	
Time to Peak (Computed)	1.22 ft³/s	
Flow (Peak, Computed)	0.050 hours	
Output Increment	12,100 hours	
Time to Flow (Peak Interpolated Output)	1.22 ft³/s	
Flow (Peak Interpolated Output)		

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.300 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.7 in
Runoff Volume (Pervious)	0.092 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.092 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.028 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: Future Imp Road-Basin 6 (S Brunswick)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	12.21 ft³/s
Unit peak time, Tp	0.019 hours
Unit receding limb, Tr	0.074 hours
Total unit time, Tb	0.093 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: Future Imp Road-Basin 6 (S Brunswick)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.028 hours	
Area (User Defined)	0.300 acres	

Computational Time	
Increment	0.004 hours
Time to Peak (Computed)	12.097 hours
Flow (Peak, Computed)	1.95 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	1.95 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.300 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.0 in
Runoff Volume (Pervious)	0.149 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.149 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.028 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: Future Imp Road-Basin 6 (S Brunswick)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	12.21 ft³/s
Unit peak time, Tp	0.019 hours
Unit receding limb, Tr	0.074 hours
Total unit time, Tb	0.093 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: Future Imp Road-Basin 6 (S Brunswick)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event		100yr Projected NOAA D
Return Event	100 years	
Duration	48,000 hours	
Depth	11.5 in	
Time of Concentration (Composite)	0.028 hours	
Area (User Defined)	0.300 acres	

Computational Time		0.004 hours
Increment	12,097 hours	
Time to Peak (Computed)	3.62 ft³/s	
Flow (Peak, Computed)	0.050 hours	
Output Increment	12,100 hours	
Time to Flow (Peak Interpolated Output)	3.61 ft³/s	
Flow (Peak Interpolated Output)		

Drainage Area		
SCS CN (Composite)	98.000	
Area (User Defined)	0.300 acres	
Maximum Retention (Pervious)	0.2 in	
Maximum Retention (Pervious, 20 percent)	0.0 in	

Cumulative Runoff		
Cumulative Runoff Depth (Pervious)	11.2 in	
Runoff Volume (Pervious)	0.281 ac-ft	

Hydrograph Volume (Area under Hydrograph curve)		
Volume	0.281 ac-ft	

SCS Unit Hydrograph Parameters		
Time of Concentration (Composite)	0.028 hours	
Computational Time Increment	0.004 hours	
Unit Hydrograph Shape Factor	483.432	
K Factor	0.749	

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: Future Imp Road-Basin 6 (S Brunswick)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters		
Receding/Rising, Tr/Tp	1.670	
Unit peak, qp	12.21 ft³/s	
Unit peak time, Tp	0.019 hours	
Unit receding limb, Tr	0.074 hours	
Total unit time, Tb	0.093 hours	

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: PDA-6 Imp (Plainsboro)
Scenario: 2YR Projected

Storm Event: 2yr Projected NOAA D
Return Event: 2 years

2yr Projected NOAA D	
Storm Event	2 years
Return Event	48,000 hours
Duration	3.9 in
Depth	0.250 hours
Time of Concentration (Composite)	12.760 acres

Computational Time Increment	0.033 hours
Time to Peak (Computed)	12.186 hours
Flow (Peak, Computed)	35.45 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.200 hours
Flow (Peak Interpolated Output)	35.11 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	12.760 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.7 in
Runoff Volume (Pervious)	3.897 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	3.897 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.250 hours
Computational Time Increment	0.033 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: PDA-6 Imp (Plainsboro)
Scenario: 2YR Projected

Storm Event: 2yr Projected NOAA D
Return Event: 2 years

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	57.90 ft³/s
Unit peak time, Tp	0.166 hours
Unit receding limb, Tr	0.666 hours
Total unit time, Tb	0.832 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: PDA-6 Imp (Plainsboro)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.250 hours	
Area (User Defined)	12,760 acres	

Computational Time		0.033 hours
Increment	12.186 hours	
Time to Peak (Computed)	56.58 ft³/s	
Flow (Peak, Computed)	0.050 hours	
Output Increment	12.200 hours	
Time to Flow (Peak Interpolated Output)	56.03 ft³/s	
Flow (Peak Interpolated Output)		

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	12,760 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.0 in
Runoff Volume (Pervious)	6.329 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	6.329 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.250 hours
Computational Time Increment	0.033 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: PDA-6 Imp (Plainsboro)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	57.90 ft³/s
Unit peak time, Tp	0.166 hours
Unit receding limb, Tr	0.666 hours
Total unit time, Tb	0.832 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: PDA-6 Imp (Plainsboro)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.250 hours
Area (User Defined)	12,760 acres

Computational Time Increment	0.033 hours
Time to Peak (Computed)	12.186 hours
Flow (Peak, Computed)	105.14 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.200 hours
Flow (Peak Interpolated Output)	104.11 ft ³ /s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	12,760 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.2 in
Runoff Volume (Pervious)	11,940 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	11,940 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.250 hours
Computational Time Increment	0.033 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: PDA-6 Imp (Plainsboro)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	57.90 ft ³ /s
Unit peak time, Tp	0.166 hours
Unit receding limb, Tr	0.666 hours
Total unit time, Tb	0.832 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: PDA-6 PER (Plainsboro)
Scenario: 2YR Projected

Storm Event: 2yr Projected NOAA D
Return Event: 2 years

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.250 hours
Area (User Defined)	1.310 acres

Computational Time	
Increment	0.033 hours
Time to Peak (Computed)	12.200 hours
Flow (Peak, Computed)	1.05 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.200 hours
Flow (Peak Interpolated Output)	1.05 ft ³ /s

Drainage Area	
SCS CN (Composite)	66.000
Area (User Defined)	1.310 acres
Maximum Retention (Pervious)	5.2 in
Maximum Retention (Pervious, 20 percent)	1.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	0.112 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.112 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.250 hours
Computational Time Increment	0.033 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: PDA-6 PER (Plainsboro)
Scenario: 2YR Projected

Storm Event: 2yr Projected NOAA D
Return Event: 2 years

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	5.94 ft ³ /s
Unit peak time, Tp	0.167 hours
Unit receding limb, Tr	0.667 hours
Total unit time, Tb	0.833 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: PDA-6 PER (Plainsboro)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.250 hours	
Area (User Defined)	1.310 acres	

Computational Time	
Increment	0.033 hours
Time to Peak (Computed)	12.200 hours
Flow (Peak, Computed)	2.90 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.200 hours
Flow (Peak Interpolated Output)	2.90 ft³/s

Drainage Area	
SCS CN (Composite)	66.000
Area (User Defined)	1.310 acres
Maximum Retention (Pervious)	5.2 in
Maximum Retention (Pervious, 20 percent)	1.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.6 in
Runoff Volume (Pervious)	0.282 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.282 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.250 hours
Computational Time Increment	0.033 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: PDA-6 PER (Plainsboro)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	5.94 ft³/s
Unit peak time, Tp	0.167 hours
Unit receding limb, Tr	0.667 hours
Total unit time, Tb	0.833 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: PDA-6 PER (Plainsboro)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event		100yr Projected NOAA D
Return Event		100 years
Duration		48,000 hours
Depth		11.5 in
Time of Concentration (Composite)		0.250 hours
Area (User Defined)		1.310 acres
Computational Time Increment		0.033 hours
Time to Peak (Computed)		12.200 hours
Flow (Peak, Computed)		7.91 ft³/s
Output Increment		0.050 hours
Time to Flow (Peak Interpolated Output)		12.200 hours
Flow (Peak Interpolated Output)		7.91 ft³/s

Drainage Area	
SCS CN (Composite)	66.000
Area (User Defined)	1.310 acres
Maximum Retention (Pervious)	5.2 in
Maximum Retention (Pervious, 20 percent)	1.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	7.0 in
Runoff Volume (Pervious)	0.763 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.763 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.250 hours
Computational Time Increment	0.033 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: PDA-6 PER (Plainsboro)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	5.94 ft³/s
Unit peak time, Tp	0.167 hours
Unit receding limb, Tr	0.667 hours
Total unit time, Tb	0.833 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: PDA8 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event		2yr Projected NOAA D
Return Event	2 years	
Duration	48,000 hours	
Depth	3.9 in	
Time of Concentration (Composite)	0.024 hours	
Area (User Defined)	0.380 acres	

Computational Time		0.003 hours
Increment	12,097 hours	
Time to Peak (Computed)	1.55 ft³/s	
Flow (Peak, Computed)	0.050 hours	
Output Increment	12,100 hours	
Time to Flow (Peak Interpolated Output)	1.55 ft³/s	
Flow (Peak Interpolated Output)		

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.380 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.7 in
Runoff Volume (Pervious)	0.116 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.116 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.024 hours
Computational Time Increment	0.003 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: PDA8 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	17.84 ft³/s
Unit peak time, Tp	0.016 hours
Unit receding limb, Tr	0.064 hours
Total unit time, Tb	0.080 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: PDA8 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.024 hours	
Area (User Defined)	0.380 acres	

Computational Time	
Increment	0.003 hours
Time to Peak (Computed)	12.097 hours
Flow (Peak, Computed)	2.47 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	2.46 ft ³ /s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.380 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.0 in
Runoff Volume (Pervious)	0.188 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.188 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.024 hours
Computational Time Increment	0.003 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: PDA8 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, T _r /T _p	1.670
Unit peak, q _p	17.84 ft ³ /s
Unit peak time, T _p	0.016 hours
Unit receding limb, T _r	0.064 hours
Total unit time, T _b	0.080 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: PDA8 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.024 hours
Area (User Defined)	0.380 acres

Computational Time Increment	0.003 hours
Time to Peak (Computed)	12.097 hours
Flow (Peak, Computed)	4.58 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	4.58 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.380 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.2 in
Runoff Volume (Pervious)	0.356 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.356 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.024 hours
Computational Time Increment	0.003 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: PDA8 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	17.84 ft³/s
Unit peak time, Tp	0.016 hours
Unit receding limb, Tr	0.064 hours
Total unit time, Tb	0.080 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: PDA8 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	
2yr Projected NOAA D	
Return Event	2 years
Duration	48,000 hours
Depth	3.9 in
Time of Concentration (Composite)	0.020 hours
Area (User Defined)	0.260 acres

Computational Time	
Increment	0.003 hours
Time to Peak (Computed)	12.101 hours
Flow (Peak, Computed)	0.25 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	0.25 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.260 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	0.017 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.017 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.020 hours
Computational Time Increment	0.003 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: PDA8 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	14.73 ft³/s
Unit peak time, Tp	0.013 hours
Unit receding limb, Tr	0.053 hours
Total unit time, Tb	0.067 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: PDA8 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event		10yr Projected NOAA D
Return Event	10 years	
Duration	48,000 hours	
Depth	6.2 in	
Time of Concentration (Composite)	0.020 hours	
Area (User Defined)	0.260 acres	

Computational Time		0.003 hours
Increment	12,099 hours	
Time to Peak (Computed)	0.76 ft³/s	
Flow (Peak, Computed)	0.050 hours	
Output Increment	12,100 hours	
Time to Flow (Peak Interpolated Output)	0.76 ft³/s	
Flow (Peak Interpolated Output)		

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.260 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	0.046 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.046 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.020 hours
Computational Time Increment	0.003 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: PDA8 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, T _r /T _p	1.670
Unit peak, q _p	14.73 ft³/s
Unit peak time, T _p	0.013 hours
Unit receding limb, T _r	0.053 hours
Total unit time, T _b	0.067 hours

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: PDA8 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

100yr Projected NOAA D	
Storm Event	100 years
Return Event	100 years
Duration	48,000 hours
Depth	11.5 in
Time of Concentration (Composite)	0.020 hours
Area (User Defined)	0.260 acres

Computational Time	
Increment	0.003 hours
Time to Peak (Computed)	12.099 hours
Flow (Peak, Computed)	2.18 ft ³ /s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	2.18 ft ³ /s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.260 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	0.136 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.136 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.020 hours
Computational Time Increment	0.003 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Projected Post Dev

Subsection: Unit Hydrograph Summary
Label: PDA8 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	14.73 ft ³ /s
Unit peak time, Tp	0.013 hours
Unit receding limb, Tr	0.053 hours
Total unit time, Tb	0.067 hours

Appendix C

POND VOLUMES

Basin Volumes

Subsection: Elevation-Area Volume Curve
Label: Bio1
Scenario: 100YR Projected
Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1+A2) (acres)	Volume (ft³)	Volume (Total) (ft³)
77.00	0.0	0.110	0.000	0.000	0.000
87.00	0.0	0.210	0.472	68,532.000	68,532.000
87.50	0.0	0.220	0.645	4,682.000	73,215.000

Basin Volumes

Subsection: Elevation-Area Volume Curve
Label: Bio12
Scenario: 100YR Projected
Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1+A2) (acres)	Volume (ft³)	Volume (Total) (ft³)
85.25	0.0	0.120	0.000	0.000	0.000
86.00	0.0	0.130	0.375	4,083.000	4,083.000
87.00	0.0	0.140	0.405	5,879.000	9,962.000
88.00	0.0	0.160	0.450	6,529.000	16,491.000
89.00	0.0	0.180	0.510	7,401.000	23,892.000
90.00	0.0	0.200	0.570	8,273.000	32,165.000

Basin Volumes

Subsection: Elevation-Area Volume Curve
Label: Bio25
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Elevation (ft)	Planimeter (ft ²)	Area (acres)	A1+A2+sqr (A1+A2) (acres)	Volume (ft ³)	Volume (Total) (ft ³)
100.00	0.0	0.310	0.000	0.000	0.000
101.00	0.0	0.350	0.989	14,366.000	14,366.000
102.00	0.0	0.390	1.109	16,109.000	30,475.000
103.00	0.0	0.430	1.230	17,853.000	48,328.000
104.00	0.0	0.480	1.364	19,810.000	68,138.000

Basin Volumes

Subsection: Elevation-Area Volume Curve
Label: Bio26
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Elevation (ft)	Planimeter (ft ²)	Area (acres)	A1+A2+sqr (A1+A2) (acres)	Volume (ft ³)	Volume (Total) (ft ³)
97.00	0.0	0.100	0.000	0.000	0.000
98.00	0.0	0.150	0.372	5,408.000	5,408.000
99.00	0.0	0.190	0.509	7,388.000	12,796.000
100.00	0.0	0.220	0.614	8,922.000	21,718.000

Basin Volumes

Subsection: Elevation-Area Volume Curve
Label: Bio28
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Elevation (ft)	Planimeter (ft ²)	Area (acres)	A1+A2+sq (A1+A2) (acres)	Volume (ft ³)	Volume (Total) (ft ³)
91.00	0.0	0.095	0.000	0.000	0.000
92.00	0.0	0.110	0.307	4,461.000	4,461.000
93.00	0.0	0.125	0.352	5,115.000	9,576.000
94.00	0.0	0.142	0.400	5,811.000	15,387.000
95.00	0.0	0.160	0.453	6,574.000	21,961.000

Basin Volumes

Subsection: Elevation-Area Volume Curve
Label: BIO29
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Elevation (ft)	Planimeter (ft ²)	Area (acres)	A1+A2+sq (A1+A2) (acres)	Volume (ft ³)	Volume (Total) (ft ³)
93.00	0.0	0.005	0.000	0.000	0.000
94.00	0.0	0.014	0.027	397.000	397.000
95.00	0.0	0.024	0.056	818.000	1,215.000
96.00	0.0	0.036	0.089	1,298.000	2,513.000

Basin Volumes

Subsection: Elevation-Area Volume Curve
Label: Bio35
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Elevation (ft)	Perimeter (ft²)	Area (acres)	A1+A2+sq (A1+A2) (acres)	Volume (ft³)	Volume (Total) (ft³)
103.40	0.0	0.090	0.000	0.000	0.000
104.00	0.0	0.110	0.299	2,609.000	2,609.000
105.00	0.0	0.130	0.360	5,221.000	7,830.000
106.00	0.0	0.160	0.434	6,305.000	14,135.000
107.00	0.0	0.190	0.524	7,614.000	21,749.000
108.00	0.0	0.220	0.614	8,922.000	30,671.000

Basin Volumes

Subsection: Elevation-Area Volume Curve
Label: Bio36
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Elevation (ft)	Perimeter (ft²)	Area (acres)	A1+A2+sq (A1+A2) (acres)	Volume (ft³)	Volume (Total) (ft³)
98.00	0.0	0.017	0.000	0.000	0.000
99.00	0.0	0.026	0.064	930.000	930.000
100.00	0.0	0.035	0.091	1,324.000	2,253.000
101.00	0.0	0.046	0.121	1,759.000	4,012.000
102.00	0.0	0.061	0.160	2,323.000	6,335.000

Basin Volumes

Subsection: Elevation-Area Volume Curve
Label: Bio45
Scenario: 100YR Projected
Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Elevation (ft)	Planimeter (ft ²)	Area (acres)	A1+A2+sqr (A1+A2) (acres)	Volume (ft ³)	Volume (Total) (ft ³)
96.50	0.0	0.280	0.000	0.000	0.000
97.00	0.0	0.300	0.870	6,315.000	6,315.000
98.00	0.0	0.330	0.945	13,716.000	20,031.000
99.00	0.0	0.370	1.049	15,238.000	35,269.000
100.00	0.0	0.410	1.169	16,981.000	52,250.000
101.00	0.0	0.450	1.290	18,724.000	70,974.000
101.50	0.0	0.500	1.424	10,341.000	81,315.000

Basin Volumes

Subsection: Elevation-Area Volume Curve
Label: Bio51
Scenario: 100YR Projected
Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Elevation (ft)	Planimeter (ft ²)	Area (acres)	A1+A2+sqr (A1+A2) (acres)	Volume (ft ³)	Volume (Total) (ft ³)
102.00	0.0	0.060	0.000	0.000	0.000
103.00	0.0	0.080	0.209	3,039.000	3,039.000
104.00	0.0	0.094	0.261	3,786.000	6,824.000
105.00	0.0	0.110	0.306	4,439.000	11,263.000
106.00	0.0	0.140	0.374	5,432.000	16,695.000
106.50	0.0	0.150	0.435	3,157.000	19,852.000

Basin Volumes

Subsection: Elevation-Area Volume Curve
Label: Bio52
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Elevation (ft)	Planimeter (ft ²)	Area (acres)	A1+A2+sq (A1+A2) (acres)	Volume (ft ³)	Volume (Total) (ft ³)
100.10	0.0	0.029	0.000	0.000	0.000
101.00	0.0	0.040	0.103	1,347.000	1,347.000
102.00	0.0	0.055	0.142	2,060.000	3,407.000
103.00	0.0	0.070	0.187	2,716.000	6,123.000
104.00	0.0	0.086	0.234	3,392.000	9,515.000
105.00	0.0	0.110	0.293	4,258.000	13,773.000

Basin Volumes

Subsection: Elevation-Area Volume Curve
Label: Bio53
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Elevation (ft)	Planimeter (ft ²)	Area (acres)	A1+A2+sq (A1+A2) (acres)	Volume (ft ³)	Volume (Total) (ft ³)
104.50	0.0	0.014	0.000	0.000	0.000
105.00	0.0	0.026	0.059	429.000	429.000
106.00	0.0	0.040	0.098	1,427.000	1,855.000
107.00	0.0	0.060	0.149	2,163.000	4,019.000
108.00	0.0	0.075	0.202	2,934.000	6,953.000
109.00	0.0	0.088	0.244	3,546.000	10,499.000

Basin Volumes

Subsection: Elevation-Area Volume Curve
Label: Bio58
Scenario: 100YR Projected

Storm Event: 100yr Projected NOAA D

Return Event: 100 years

Elevation (ft)	Perimeter (ft²)	Area (acres)	A1+A2+sq (A1+A2) (acres)	Volume (ft³)	Volume (Total) (ft³)
106.40	0.0	0.150	0.000	0.000	0.000
107.00	0.0	0.170	0.480	4,179.000	4,179.000
108.00	0.0	0.200	0.554	8,050.000	12,229.000
109.00	0.0	0.240	0.659	9,570.000	21,799.000
110.00	0.0	0.270	0.765	11,101.000	32,900.000
111.00	0.0	0.310	0.869	12,622.000	45,523.000

Basin Volumes

Subsection: Elevation-Area Volume Curve
Label: EX BASIN 6
Scenario: 100YR Projected

Storm Event: 100yr Projected NOAA D

Return Event: 100 years

Elevation (ft)	Perimeter (ft²)	Area (acres)	A1+A2+sq (A1+A2) (acres)	Volume (ft³)	Volume (Total) (ft³)
89.00	0.0	1.300	0.000	0.000	0.000
89.50	0.0	1.360	3.990	28,965.000	28,965.000
90.00	0.0	1.420	4.170	30,272.000	59,237.000
90.50	0.0	1.490	4.365	31,687.000	90,924.000
91.00	0.0	1.550	4.560	33,103.000	124,027.000
91.35	0.0	1.600	4.725	24,011.000	148,039.000
91.50	0.0	1.620	4.830	10,520.000	158,559.000
92.00	0.0	1.680	4.950	35,935.000	194,493.000
92.50	0.0	1.750	5.145	37,350.000	231,843.000
93.00	0.0	1.820	5.355	38,875.000	270,718.000
93.50	0.0	1.890	5.565	40,400.000	311,118.000
94.00	0.0	1.970	5.790	42,032.000	353,150.000
94.50	0.0	2.040	6.015	43,667.000	396,817.000
95.00	0.0	2.110	6.225	45,191.000	442,008.000

Basin Volumes

Subsection: Elevation-Area Volume Curve Return Event: 100 years
Label: Infil30 Storm Event: 100yr Projected NOAA D
Scenario: 100YR Projected

Elevation (ft)	Planimeter (ft ²)	Area (acres)	A1+A2+sqr (A1+A2) (acres)	Volume (ft ³)	Volume (Total) (ft ³)
91.40	0.0	0.450	0.000	0.000	0.000
92.00	0.0	0.710	1.725	15,030.000	15,030.000
93.00	0.0	0.760	2.205	32,010.000	47,041.000
94.00	0.0	0.810	2.355	34,189.000	81,230.000
95.00	0.0	0.860	2.505	36,367.000	117,597.000
96.00	0.0	0.910	2.655	38,545.000	156,142.000
96.50	0.0	0.940	2.775	20,146.000	176,288.000

Basin Volumes

Subsection: Elevation-Area Volume Curve Return Event: 100 years
Label: Infil8 Storm Event: 100yr Projected NOAA D
Scenario: 100YR Projected

Elevation (ft)	Planimeter (ft ²)	Area (acres)	A1+A2+sqr (A1+A2) (acres)	Volume (ft ³)	Volume (Total) (ft ³)
109.50	0.0	0.000	0.000	0.000	0.000
110.00	0.0	0.110	0.110	799.000	799.000
111.00	0.0	0.130	0.360	5,221.000	6,020.000
112.00	0.0	0.160	0.434	6,305.000	12,325.000

Basin Volumes

Subsection: Storage Chamber System
Label: UGB10
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber			
ID	176	Notes	Created on 02/10/2010. Please check with the manufacturer for the latest data.
Label	SC-740 Chamber		
Storage Chamber			
Effective Length	7.12 ft	Manufacturer	StormTech
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length

Curve	
Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09

Basin Volumes

Subsection: Storage Chamber System
Label: UGB10
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length

Curve	
Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
2.33	0.04
2.42	0.02
2.50	0.01

Storage Chamber

Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width
Storage Chamber (Pond)		
Chamber System Invert	106.00 ft	
Chamber System Rows	6	
Chambers per Row	14	
Chamber System Fill Void Space	40.0 %	
Chamber System Row Spacing	6.0 in	
Chamber System Side Fill	12.0 in	
Chamber System Fill Cover Depth	6.0 in	
Chamber System Fill Base Depth	6.0 in	
Chamber System Fill Side Slope	1.000 H:V	
Chamber System End Fill	12.0 in	
Chamber System Includes Header?	False	

Subsection: Storage Chamber System
Label: UGB11
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber

ID	Notes
215	Created on 02/10/2010. Please check with the manufacturer for the latest data.

Basin Volumes

Subsection: Storage Chamber System
Label: UGB11
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber			
Label	SC-310 Chamber		
Storage Chamber			
Effective Length Section Length Varies?	7.12 ft False	Manufacturer Default Spacing	StormTech 0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft ³ /ft)	
0.08	0.08	0.20
0.17	0.17	0.20
0.25	0.25	0.19
0.33	0.33	0.19
0.42	0.42	0.18
0.50	0.50	0.17
0.58	0.58	0.16
0.67	0.67	0.15
0.75	0.75	0.14
0.83	0.83	0.13
0.92	0.92	0.12
1.00	1.00	0.10
1.08	1.08	0.08
1.17	1.17	0.04
1.25	1.25	0.02
1.33	1.33	0.01

Storage Chamber

Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width
		2.83 ft

Storage Chamber (Pond)

Chamber System Invert	84.08 ft
Chamber System Rows	5
Chambers per Row	9
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in

Basin Volumes

Subsection: Storage Chamber System
Label: UGB11
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber (Pond)	
Chamber System Fill Cover Depth	6.0 in
Chamber System Fill Base Depth	12.0 in
Chamber System Fill Side Slope	1.000 H:V
Chamber System End Fill Chamber System Includes Header?	12.0 in False

Subsection: Storage Chamber System
Label: UGB13
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber

ID	176	Notes
Created on 02/10/2010. Please check with the manufacturer for the latest data.		

Label

SC-740
Chamber

Storage Chamber

Effective Length Section Length Varies?	7.12 ft False	Manufacturer Default Spacing	StormTech 0.50 ft
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Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft ³ /ft)	
0.08	0.08	0.31
0.17	0.17	0.31
0.25	0.25	0.31
0.33	0.33	0.30
0.42	0.42	0.30
0.50	0.50	0.30
0.58	0.58	0.29
0.67	0.67	0.29
0.75	0.75	0.28
0.83	0.83	0.28
0.92	0.92	0.27
1.00	1.00	0.27

Basin Volumes

Subsection: Storage Chamber System
Label: UGB13
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09
2.33	0.04
2.42	0.02
2.50	0.01

Storage Chamber

Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width
		4.25 ft

Storage Chamber (Pond)

Chamber System Invert	86.00 ft
Chamber System Rows	2
Chambers per Row	8
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover	6.0 in
Depth	6.0 in
Chamber System Fill Base	6.0 in
Chamber System Fill Side	1.000 H:V
Slope	12.0 in
Chamber System End Fill	

Basin Volumes

Subsection: Storage Chamber System
Label: UGB13
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber (Pond)

Chamber System Includes Header?	False
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Subsection: Storage Chamber System
Label: UGB14
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber

ID	176	Created on 02/10/2010. Please check with the manufacturer for the latest data.
Label	SC-740 Chamber	Notes

Storage Chamber

Effective Length	7.12 ft	Manufacturer Default Spacing	StormTech 0.50 ft
Section Length Varies?	False		

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21

Basin Volumes

Subsection: Storage Chamber System
Label: UGB14
Scenario: 100YR Projected
Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09
2.33	0.04
2.42	0.02
2.50	0.01

Storage Chamber	Incremental Volume Per Unit Length	Maximum Width
Storage Chamber Type		4.25 ft

Storage Chamber (Pond)	Incremental Volume Per Unit Length
Chamber System Invert	86.25 ft
Chamber System Rows	2
Chambers per Row	8
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover	6.0 in
Depth	6.0 in
Chamber System Fill Base	1.000 H:V
Depth	12.0 in
Chamber System Fill Side Slope	False
Chamber System End Fill	
Chamber System Includes Header?	

Subsection: Storage Chamber System
Label: UGB15
Scenario: 100YR Projected
Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Basin Volumes

Subsection: Storage Chamber System
Label: UGB15
Scenario: 100YR Projected
Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber

ID	Notes
176	Created on 02/10/2010. Please check with the manufacturer for the latest data.

Label	SC-740 Chamber
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Storage Chamber

Effective Length	7.12 ft	Manufacturer	StormTech
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09

Basin Volumes

Subsection: Storage Chamber System
Label: UGB15
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)	
2.33	2.33	0.04
2.42	2.42	0.02
2.50	2.50	0.01

Storage Chamber

Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width
		4.25 ft

Storage Chamber (Pond)

Chamber System Invert	92.00 ft
Chamber System Rows	14
Chambers per Row	14
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover	6.0 in
Depth	6.0 in
Chamber System Fill Base	6.0 in
Chamber System Fill Side Slope	1.000 H:V
Chamber System End Fill	12.0 in
Chamber System Includes Header?	False

Subsection: Storage Chamber System
Label: UGB16
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber

ID	502	Notes
Label	SC-800 Chamber	

Storage Chamber

Effective Length Section Length Varies?	7.12 ft	Manufacturer Default Spacing	0.50 ft
	False		

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Basin Volumes

Subsection: Storage Chamber System
Label: UGB16
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)	
0.08	0.08	0.31
0.17	0.17	0.31
0.25	0.25	0.31
0.33	0.33	0.30
0.42	0.42	0.30
0.50	0.50	0.30
0.58	0.58	0.29
0.67	0.67	0.29
0.75	0.75	0.28
0.83	0.83	0.28
0.92	0.92	0.27
1.00	1.00	0.27
1.08	1.08	0.26
1.17	1.17	0.25
1.25	1.25	0.25
1.33	1.33	0.24
1.42	1.42	0.23
1.50	1.50	0.22
1.58	1.58	0.21
1.67	1.67	0.20
1.75	1.75	0.19
1.83	1.83	0.18
1.92	1.92	0.17
2.00	2.00	0.15
2.08	2.08	0.13
2.17	2.17	0.11
2.25	2.25	0.09
2.33	2.33	0.05
2.42	2.42	0.04
2.72	2.72	0.01

Storage Chamber

Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width
		4.25 ft

Storage Chamber (Pond)

Chamber System Invert	94.00 ft
Chamber System Rows	20
Chambers per Row	14

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Basin Volumes

Subsection: Storage Chamber System
Label: UGB16
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber (Pond)	
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill Depth	12.0 in
Chamber System Fill Cover Depth	6.0 in
Chamber System Fill Base Depth	6.0 in
Chamber System Fill Side Slope	1.000 H:V
Chamber System End Fill Depth	12.0 in
Chamber System Includes Header?	False

Subsection: Storage Chamber System
Label: UGB17
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber	
ID	176
Created on 02/10/2010. Please check with the manufacturer for the latest data.	
Notes	
Label	SC-740 Chamber

Storage Chamber	
Effective Length Section Length Varies?	7.12 ft False
Manufacturer Default Spacing	StormTech 0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29

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Basin Volumes

Subsection: Storage Chamber System
Label: UGB17
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09
2.33	0.04
2.42	0.02
2.50	0.01

Storage Chamber

Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width

Storage Chamber (Pond)

Chamber System Invert	110.50 ft
Chamber System Rows	10
Chambers per Row	33
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill Depth	12.0 in
Chamber System Fill Cover Depth	6.0 in

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Basin Volumes

Subsection: Storage Chamber System
Label: UGB17
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber (Pond)	
Chamber System Fill Base	6.0 in
Depth	
Chamber System Fill Side	1.000 H:V
Slope	
Chamber System End Fill	12.0 in
Chamber System Includes Header?	False

Subsection: Storage Chamber System
Label: UGB18
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber	
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ID	Notes
176	Created on 02/10/2010. Please check with the manufacturer for the latest data.

Label	SC-740 Chamber
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Storage Chamber		
Effective Length	7.12 ft	Manufacturer
Section Length Varies?	False	Default Spacing
		StormTech
		0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25

Basin Volumes

Subsection: Storage Chamber System
Label: UGB18
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09
2.33	0.04
2.42	0.02
2.50	0.01

Storage Chamber		
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Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width
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Storage Chamber (Pond)

Chamber System Invert	94.00 ft
Chamber System Rows	3
Chambers per Row	9
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover Depth	6.0 in
Chamber System Fill Base Depth	6.0 in
Chamber System Fill Side Slope	1.000 H:V
Chamber System End Fill	12.0 in
Chamber System Includes Header?	False

Basin Volumes

Subsection: Storage Chamber System
Label: UGB19
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber			
ID	176	Notes	Created on 02/10/2010. Please check with the manufacturer for the latest data.
Label	SC-740 Chamber		
Storage Chamber			
Effective Length	7.12 ft	Manufacturer	StormTech
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length

Curve	
Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09

Basin Volumes

Subsection: Storage Chamber System
Label: UGB19
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length

Curve	
Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
2.33	0.04
2.42	0.02
2.50	0.01

Storage Chamber

Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width
Storage Chamber (Pond)		
Chamber System Invert	94.50 ft	
Chamber System Rows	3	
Chambers per Row	9	
Chamber System Fill Void Space	40.0 %	
Chamber System Row Spacing	6.0 in	
Chamber System Side Fill	12.0 in	
Chamber System Fill Cover Depth	6.0 in	
Chamber System Fill Base Depth	6.0 in	
Chamber System Fill Side Slope	1:000 H:V	
Chamber System End Fill	12.0 in	
Chamber System Includes Header?	False	

Subsection: Storage Chamber System
Label: UGB2
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber

ID	Notes
215	Created on 02/10/2010. Please check with the manufacturer for the latest data.

Basin Volumes

Subsection: Storage Chamber System
Label: UGB2
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber			
Label	SC-310 Chamber		
Storage Chamber			
Effective Length Section Length Varies?	7.12 ft False	Manufacturer Default Spacing	StormTech 0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft ³ /ft)	
0.08	0.17	0.20
0.17	0.25	0.19
0.25	0.33	0.19
0.33	0.42	0.18
0.42	0.50	0.17
0.50	0.58	0.16
0.58	0.67	0.15
0.67	0.75	0.14
0.75	0.83	0.13
0.83	0.92	0.12
0.92	1.00	0.10
1.00	1.08	0.08
1.08	1.17	0.04
1.17	1.25	0.02
1.25	1.33	0.01

Storage Chamber

Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width	2.83 ft
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Storage Chamber (Pond)

Chamber System Invert	85.25 ft
Chamber System Rows	4
Chambers per Row	34
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in

Basin Volumes

Subsection: Storage Chamber System
Label: UGB2
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber (Pond)			
Chamber System Fill Cover Depth	6.0 in		
Chamber System Fill Base Depth	6.0 in		
Chamber System Fill Side Slope	1.000 H:V		
Chamber System End Fill Chamber System Includes Header?	12.0 in False		

Subsection: Storage Chamber System

Label: UGB20
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber

ID	176	Notes	Created on 02/10/2010. Please check with the manufacturer for the latest data.
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Label

SC-740
Chamber

Storage Chamber

Effective Length Section Length Varies?	7.12 ft False	Manufacturer Default Spacing	StormTech 0.50 ft
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Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft ³ /ft)	
0.08	0.17	0.31
0.17	0.25	0.31
0.25	0.33	0.30
0.33	0.42	0.30
0.42	0.50	0.30
0.50	0.58	0.29
0.58	0.67	0.29
0.67	0.75	0.28
0.75	0.83	0.28
0.83	0.92	0.27
0.92	1.00	0.27

Basin Volumes

Subsection: Storage Chamber System
Label: UGB20
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09
2.33	0.04
2.42	0.02
2.50	0.01

Storage Chamber

Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width
		4.25 ft

Storage Chamber (Pond)

Chamber System Invert	97.10 ft
Chamber System Rows	5
Chambers per Row	29
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover	6.0 in
Depth	6.0 in
Chamber System Fill Base	6.0 in
Depth	1.000 H:V
Chamber System Fill Side Slope	12.0 in
Chamber System End Fill	

Basin Volumes

Subsection: Storage Chamber System
Label: UGB20
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber (Pond)

Chamber System Includes Header?	False
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Subsection: Storage Chamber System
Label: UGB21
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber

ID	176	Created on 02/10/2010. Please check with the manufacturer for the latest data.
Label	SC-740 Chamber	Notes

Storage Chamber

Effective Length	7.12 ft	Manufacturer Default Spacing	StormTech
Section Length Varies?	False		0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21

Basin Volumes

Subsection: Storage Chamber System
Label: UGB21
Scenario: 100YR Projected
Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09
2.33	0.04
2.42	0.02
2.50	0.01

Storage Chamber	Incremental Volume Per Unit Length	Maximum Width
Storage Chamber Type		4.25 ft

Storage Chamber (Pond)	Incremental Volume Per Unit Length
Chamber System Invert	98.00 ft
Chamber System Rows	3
Chambers per Row	6
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover	6.0 in
Depth	6.0 in
Chamber System Fill Base	1.000 H:V
Depth	12.0 in
Chamber System Fill Side Slope	False
Chamber System End Fill	
Chamber System Includes Header?	

Subsection: Storage Chamber System
Label: UGB22
Scenario: 100YR Projected
Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Basin Volumes

Subsection: Storage Chamber System
Label: UGB22
Scenario: 100YR Projected
Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber

ID	Notes
176	Created on 02/10/2010. Please check with the manufacturer for the latest data.

Label SC-740 Chamber

Storage Chamber

Effective Length	7.12 ft	Manufacturer	StormTech
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09

Basin Volumes

Subsection: Storage Chamber System
Label: UGB22
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)	
2.33	0.04	
2.42	0.02	
2.50	0.01	

Storage Chamber

Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width
		4.25 ft

Storage Chamber (Pond)

Chamber System Invert	107.00 ft
Chamber System Rows	10
Chambers per Row	29
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover	6.0 in
Depth	6.0 in
Chamber System Fill Base	6.0 in
Chamber System Fill Side Slope	0.000 H:V
Chamber System End Fill	12.0 in
Chamber System Includes Header?	False

Subsection: Storage Chamber System
Label: UGB27
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber

ID	Notes
176	Created on 02/10/2010. Please check with tile manufacturer for the latest data.

Basin Volumes

Subsection: Storage Chamber System
Label: UGB27
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber

Label	SC-740 Chamber
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Storage Chamber

Effective Length	7.12 ft	Manufacturer	StormTech
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09
2.33	0.04
2.42	0.02
2.50	0.01

Storage Chamber

Basin Volumes

Subsection: Storage Chamber System
Label: UGB27
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber		
Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width
4.25 ft		

Storage Chamber (Pond)

Chamber System Invert	99.00 ft
Chamber System Rows	4
Chambers per Row	15
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover Depth	6.0 in
Chamber System Fill Base Depth	6.0 in
Chamber System Fill Side Slope	1.000 H:V
Chamber System End Fill	12.0 in
Chamber System Includes Header?	False

Subsection: Pipe Volume
Label: UGB3
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Volume Results (Pipe)

Pipe Storage Upstream Invert	85.50 ft
Pipe Storage Downstream Invert	85.50 ft
Pipe Storage Length	225.00 ft
Pipe Storage Diameter	48.0 in
Pipe Storage Number of Barrels	3
Pipe Storage Slice Width	0.10 ft
Pipe Storage Vertical Increment	0.10 ft

Elevation (ft)	Perpendicular Downstream Depth (ft)	Perpendicular Downstream Area (ft²)	Wetted Length (ft)	Filled Length (ft)	Perpendicular Upstream Depth (ft)	Perpendicular Upstream Area (ft²)	Total Volume (ft³)
85.50	0.00	0.0	0.1	0.00	0.00	0.0	0.000
85.60	0.10	0.1	0.1	0.00	0.10	0.1	56.000

Basin Volumes

Subsection: Pipe Volume
Label: UGB3
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Elevation (ft)	Perpendicular Downstream Depth (ft)	Perpendicular Downstream Area (ft²)	Wetted Length (ft)	Filled Length (ft)	Perpendicular Upstream Depth (ft)	Perpendicular Upstream Area (ft²)	Total Volume (ft³)
85.70	0.20	0.2	225.00	0.00	0.20	0.2	159.000
85.80	0.30	0.4	225.00	0.00	0.30	0.4	289.000
85.90	0.40	0.7	225.00	0.00	0.40	0.7	441.000
86.00	0.50	0.9	225.00	0.00	0.50	0.9	612.000
86.10	0.60	1.2	225.00	0.00	0.60	1.2	798.000
86.20	0.70	1.5	225.00	0.00	0.70	1.5	997.000
86.30	0.80	1.8	225.00	0.00	0.80	1.8	1,208.000
86.40	0.90	2.1	225.00	0.00	0.90	2.1	1,429.000
86.50	1.00	2.5	225.00	0.00	1.00	2.5	1,658.000
86.60	1.10	2.8	225.00	0.00	1.10	2.8	1,896.000
86.70	1.20	3.2	225.00	0.00	1.20	3.2	2,140.000
86.80	1.30	3.5	225.00	0.00	1.30	3.5	2,390.000
86.90	1.40	3.9	225.00	0.00	1.40	3.9	2,646.000
87.00	1.50	4.3	225.00	0.00	1.50	4.3	2,905.000
87.10	1.60	4.7	225.00	0.00	1.60	4.7	3,168.000
87.20	1.70	5.1	225.00	0.00	1.70	5.1	3,434.000
87.30	1.80	5.5	225.00	0.00	1.80	5.5	3,702.000
87.40	1.90	5.9	225.00	0.00	1.90	5.9	3,971.000
87.50	2.00	6.3	225.00	0.00	2.00	6.3	4,241.000
87.60	2.10	6.7	225.00	0.00	2.10	6.7	4,511.000
87.70	2.20	7.1	225.00	0.00	2.20	7.1	4,780.000
87.80	2.30	7.5	225.00	0.00	2.30	7.5	5,048.000
87.90	2.40	7.9	225.00	0.00	2.40	7.9	5,314.000
88.00	2.50	8.3	225.00	0.00	2.50	8.3	5,577.000
88.10	2.60	8.6	225.00	0.00	2.60	8.6	5,837.000
88.20	2.70	9.0	225.00	0.00	2.70	9.0	6,092.000
88.30	2.80	9.4	225.00	0.00	2.80	9.4	6,342.000
88.40	2.90	9.8	225.00	0.00	2.90	9.8	6,586.000
88.50	3.00	10.1	225.00	0.00	3.00	10.1	6,824.000
88.60	3.10	10.5	225.00	0.00	3.10	10.5	7,054.000
88.70	3.20	10.8	225.00	0.00	3.20	10.8	7,275.000
88.80	3.30	11.1	225.00	0.00	3.30	11.1	7,485.000
88.90	3.40	11.4	225.00	0.00	3.40	11.4	7,684.000
89.00	3.50	11.7	225.00	0.00	3.50	11.7	7,870.000
89.10	3.60	11.9	225.00	0.00	3.60	11.9	8,041.000
89.20	3.70	12.1	225.00	0.00	3.70	12.1	8,193.000
89.30	3.80	12.3	225.00	0.00	3.80	12.3	8,324.000
89.40	3.90	12.5	225.00	0.00	3.90	12.5	8,426.000
89.50	4.00	12.6	225.00	225.00	4.00	12.6	8,482.000

Basin Volumes

Subsection: Volume Void Adjustments
Label: UGB3
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Volume Complete Filled With Material
(Adjust Volumes for Voids)

Void Space = 100.0 %			
Elevation (Headwater) (ft)	Volume (Total) (ft³)	Volume (Adjusted) (ft³)	
85.50	0.000	0.000	0.000
85.60	56.492	56.492	56.492
85.70	158.560	158.560	158.560
85.80	289.024	289.024	289.024
85.90	441.453	441.453	441.453
86.00	611.971	611.971	611.971
86.10	797.847	797.847	797.847
86.20	996.988	996.988	996.988
86.30	1,207.697	1,207.697	1,207.697
86.40	1,428.547	1,428.547	1,428.547
86.50	1,658.299	1,658.299	1,658.299
86.60	1,895.854	1,895.854	1,895.854
86.70	2,140.218	2,140.218	2,140.218
86.80	2,390.480	2,390.480	2,390.480
86.90	2,645.789	2,645.789	2,645.789
87.00	2,905.347	2,905.347	2,905.347
87.10	3,168.394	3,168.394	3,168.394
87.20	3,434.198	3,434.198	3,434.198
87.30	3,702.051	3,702.051	3,702.051
87.40	3,971.263	3,971.263	3,971.263
87.50	4,241.150	4,241.150	4,241.150
87.60	4,511.038	4,511.038	4,511.038
87.70	4,780.249	4,780.249	4,780.249
87.80	5,048.102	5,048.102	5,048.102
87.90	5,313.906	5,313.906	5,313.906
88.00	5,576.953	5,576.953	5,576.953
88.10	5,836.511	5,836.511	5,836.511
88.20	6,091.821	6,091.821	6,091.821
88.30	6,342.082	6,342.082	6,342.082
88.40	6,586.446	6,586.446	6,586.446
88.50	6,824.001	6,824.001	6,824.001
88.60	7,053.753	7,053.753	7,053.753
88.70	7,274.603	7,274.603	7,274.603
88.80	7,485.313	7,485.313	7,485.313
88.90	7,684.453	7,684.453	7,684.453
89.00	7,870.329	7,870.329	7,870.329
89.10	8,040.847	8,040.847	8,040.847
89.20	8,193.277	8,193.277	8,193.277
89.30	8,323.740	8,323.740	8,323.740
89.40	8,425.808	8,425.808	8,425.808

Basin Volumes

Subsection: Volume Void Adjustments
Label: UGB3
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Volume Complete Filled With Material
(Adjust Volumes for Voids)

Void Space = 100.0 %			
Elevation (Headwater) (ft)	Volume (Total) (ft³)	Volume (Adjusted) (ft³)	
89.50	8,482.300	8,482.300	8,482.300

Basin Volumes

Subsection: Storage Chamber System
Label: UGB31
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber			
ID	176	Notes	Created on 02/10/2010. Please check with the manufacturer for the latest data.
Label	SC-740 Chamber		
Storage Chamber			
Effective Length	7.12 ft	Manufacturer	StormTech
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length

Curve	
Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09

Basin Volumes

Subsection: Storage Chamber System
Label: UGB31
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length

Curve	
Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
2.33	0.04
2.42	0.02
2.50	0.01

Storage Chamber

Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width
4.25 ft		

Storage Chamber (Pond)

Chamber System Invert	92.60 ft
Chamber System Rows	6
Chambers per Row	15
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover Depth	6.0 in
Chamber System Fill Base Depth	6.0 in
Chamber System Fill Side Slope	1.000 H:V
Chamber System End Fill	12.0 in
Chamber System Includes Header?	False

Subsection: Storage Chamber System
Label: UGB32
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber

ID	Notes
176	Created on 02/10/2010. Please check with the manufacturer for the latest data.

Basin Volumes

Subsection: Storage Chamber System
Label: UGB32
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber			
Label	SC-740 Chamber		

Storage Chamber			
Effective Length Section Length Varies?	7.12 ft False	Manufacturer Default Spacing	StormTech 0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft ³ /ft)	
0.08	0.08	0.31
0.17	0.17	0.31
0.25	0.25	0.31
0.33	0.33	0.30
0.42	0.42	0.30
0.50	0.50	0.30
0.58	0.58	0.29
0.67	0.67	0.29
0.75	0.75	0.28
0.83	0.83	0.28
0.92	0.92	0.27
1.00	1.00	0.27
1.08	1.17	0.26
1.25	1.25	0.25
1.33	1.33	0.25
1.42	1.42	0.24
1.50	1.50	0.23
1.58	1.58	0.22
1.67	1.67	0.21
1.75	1.75	0.20
1.83	1.83	0.19
1.92	1.92	0.18
2.00	2.00	0.17
2.08	2.08	0.15
2.17	2.17	0.13
2.25	2.25	0.11
2.33	2.33	0.09
2.42	2.42	0.04
2.50	2.50	0.02
		0.01

Storage Chamber

Basin Volumes

Subsection: Storage Chamber System
Label: UGB32
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber			
Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width	4.25 ft

Storage Chamber (Pond)	
Chamber System Invert	109.75 ft
Chamber System Rows	10
Chambers per Row	29
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover Depth	6.0 in
Chamber System Fill Base Depth	6.0 in
Chamber System Fill Side Slope	1.000 H:V
Chamber System End Fill	12.0 in
Chamber System Includes Header?	False

Subsection: Storage Chamber System
Label: UGB33
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber	
ID	176

	Created on 02/10/2010. Please check with the manufacturer for the latest data.
Notes	

Label	SC-740 Chamber
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Storage Chamber			
Effective Length Section Length Varies?	7.12 ft False	Manufacturer Default Spacing	StormTech 0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Basin Volumes

Subsection: Storage Chamber System
Label: UGB33
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09
2.33	0.04
2.42	0.02
2.50	0.01

Storage Chamber		
Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width
		4.25 ft

Storage Chamber (Pond)		
Chamber System Invert	105.82 ft	
Chamber System Rows	4	
Chambers per Row	15	

Basin Volumes

Subsection: Storage Chamber System
Label: UGB33
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber (Pond)

Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill Depth	12.0 in
Chamber System Fill Cover Depth	6.0 in
Chamber System Fill Base Depth	6.0 in
Chamber System Fill Side Slope	1:000 H:V
Chamber System End Fill Depth	12.0 in
Chamber System Includes Header?	False

Subsection: Storage Chamber System
Label: UGB34
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber

ID	215	Created on 02/10/2010. Please check with the manufacturer for the latest data.
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Notes

Label	SC-310 Chamber
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Storage Chamber

Effective Length	7.12 ft	Manufacturer	StormTech
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.20
0.17	0.20
0.25	0.19
0.33	0.19
0.42	0.18
0.50	0.17
0.58	0.16

Basin Volumes

Subsection: Storage Chamber System
Label: UGB34
Scenario: 100YR Projected
Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.67	0.15
0.75	0.14
0.83	0.13
0.92	0.12
1.00	0.10
1.08	0.08
1.17	0.04
1.25	0.02
1.33	0.01

Storage Chamber

Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width
		2.83 ft

Storage Chamber (Pond)

Chamber System Invert	109.50 ft
Chamber System Rows	6
Chambers per Row	25
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover	6.0 in
Depth	6.0 in
Chamber System Fill Base Depth	1.000 H:V
Slope	12.0 in
Chamber System End Fill Chamber System Includes Header?	False

Subsection: Storage Chamber System
Label: UGB37
Scenario: 100YR Projected
Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber

Basin Volumes

Subsection: Storage Chamber System
Label: UGB37
Scenario: 100YR Projected
Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber

ID	176	Notes	Created on 02/10/2010. Please check with the manufacturer for the latest data.
Label	SC-740 Chamber		

Storage Chamber

Effective Length Section Length Varies?	7.12 ft False	Manufacturer Default Spacing	StormTech 0.50 ft
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Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09

Basin Volumes

Subsection: Storage Chamber System
Label: UGB37
Scenario: 100YR Projected
Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)	
2.33	0.04	
2.42	0.02	
2.50	0.01	

Storage Chamber

Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width
		4.25 ft

Storage Chamber (Pond)

Chamber System Invert	103.50 ft
Chamber System Rows	4
Chambers per Row	15
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover	6.0 in
Depth	6.0 in
Chamber System Fill Base	6.0 in
Chamber System Fill Side Slope	1.000 H:V
Chamber System End Fill	12.0 in
Chamber System Includes Header?	False

Subsection: Storage Chamber System
Label: UGB4
Scenario: 100YR Projected
Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber

ID	Notes
176	Created on 02/10/2010. Please check with tile manufacturer for the latest data.

Basin Volumes

Subsection: Storage Chamber System
Label: UGB4
Scenario: 100YR Projected
Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber

Label	SC-740 Chamber
Effective Length	7.12 ft
Section Length Varies?	False
Manufacturer Default Spacing	StormTech 0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09
2.33	0.04
2.42	0.02
2.50	0.01

Storage Chamber

Basin Volumes

Subsection: Storage Chamber System
Label: UGB4
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber

Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width	4.25 ft
Storage Chamber (Pond)			
Chamber System Invert	85.10 ft		
Chamber System Rows	8		
Chambers per Row	14		
Chamber System Fill Void Space	40.0 %		
Chamber System Row Spacing	6.0 in		
Chamber System Side Fill	12.0 in		
Chamber System Fill Cover	6.0 in		
Chamber System Fill Base	6.0 in		
Chamber System Fill Side Slope	1.000 H:V		
Chamber System End Fill	12.0 in		
Chamber System Includes Header?	False		

Subsection: Storage Chamber System
Label: UGB41
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber

ID	215	Created on 02/10/2010. Please check with the manufacturer for the latest data.
Label	SC-310 Chamber	

Storage Chamber		
Effective Length	7.12 ft	StormTech
Section Length Varies?	False	Manufacturer Default Spacing
		0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Basin Volumes

Subsection: Storage Chamber System
Label: UGB41
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.20
0.17	0.20
0.25	0.19
0.33	0.19
0.42	0.18
0.50	0.17
0.58	0.16
0.67	0.15
0.75	0.14
0.83	0.13
0.92	0.12
1.00	0.10
1.08	0.08
1.17	0.04
1.25	0.02
1.33	0.01

Storage Chamber

Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width	2.83 ft
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Storage Chamber (Pond)

Chamber System Invert	104.00 ft
Chamber System Rows	2
Chambers per Row	6
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover	6.0 in
Chamber System Fill Base	6.0 in
Chamber System Fill Side Slope	1.000 H:V
Chamber System End Fill	12.0 in
Chamber System Includes Header?	False

Basin Volumes

Subsection: Storage Chamber System
Label: UGB42
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber			
ID	176	Created on 02/10/2010. Please check with the manufacturer for the latest data.	
		Notes	
Label	SC-740 Chamber		
Storage Chamber			
Effective Length	7.12 ft	Manufacturer	StormTech
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09

Basin Volumes

Subsection: Storage Chamber System
Label: UGB42
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
2.33	0.04
2.42	0.02
2.50	0.01

Storage Chamber

Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width
		4.25 ft

Storage Chamber (Pond)

Chamber System Invert	95.00 ft
Chamber System Rows	4
Chambers per Row	13
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover Depth	6.0 in
Chamber System Fill Base Depth	6.0 in
Chamber System Fill Side Slope	1.000 H:V
Chamber System End Fill	12.0 in
Chamber System Includes Header?	False

Subsection: Storage Chamber System
Label: UGB43
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber

ID	176
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Notes

Basin Volumes

Subsection: Storage Chamber System
Label: UGB43
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber			
Label	SC-740 Chamber		

Storage Chamber			
Effective Length	7.12 ft	Manufacturer	StormTech
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft ³ /ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09
2.33	0.04
2.42	0.02
2.50	0.01

Storage Chamber

Basin Volumes

Subsection: Storage Chamber System
Label: UGB43
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber			
Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width	4.25 ft

Storage Chamber (Pond)	
Chamber System Invert	98.00 ft
Chamber System Rows	4
Chambers per Row	14
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover Depth	6.0 in
Chamber System Fill Base Depth	6.0 in
Chamber System Fill Side Slope	1.000 H:V
Chamber System End Fill	12.0 in
Chamber System Includes Header?	False

Subsection: Storage Chamber System
Label: UGB44
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber	
ID	176

	Created on 02/10/2010. Please check with the manufacturer for the latest data.
	Notes

Label	SC-740 Chamber
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Storage Chamber	
Effective Length	7.12 ft
Section Length Varies?	False
Manufacturer	StormTech
Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Basin Volumes

Subsection: Storage Chamber System
Label: UGB44
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09
2.33	0.04
2.42	0.02
2.50	0.01

Storage Chamber		
Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width
		4.25 ft

Storage Chamber (Pond)		
Chamber System Invert	101.00 ft	
Chamber System Rows	4	
Chambers per Row	14	

Basin Volumes

Subsection: Storage Chamber System
Label: UGB44
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber (Pond)

Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill Depth	12.0 in
Chamber System Fill Cover Depth	6.0 in
Chamber System Fill Base Depth	6.0 in
Chamber System Fill Side Slope	1.000 H:V
Chamber System End Fill Header?	12.0 in
Chamber System Includes Header?	False

Subsection: Storage Chamber System
Label: UGB46
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber

ID	176	Created on 02/10/2010. Please check with the manufacturer for the latest data.
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Notes

Label	SC-740 Chamber
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Storage Chamber

Effective Length	7.12 ft	Manufacturer	StormTech
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29

Basin Volumes

Subsection: Storage Chamber System
Label: UGB46
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09
2.33	0.04
2.42	0.02
2.50	0.01

Storage Chamber

Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width
		4.25 ft

Storage Chamber (Pond)

Chamber System Invert	103.00 ft
Chamber System Rows	2
Chambers per Row	7
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover	6.0 in
Depth	

Basin Volumes

Subsection: Storage Chamber System
Label: UGB46
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber (Pond)

Chamber System Fill Base Depth	6.0 in
Chamber System Fill Side Slope	1.000 H:V
Chamber System End Fill	12.0 in
Chamber System Includes Header?	False

Subsection: Storage Chamber System

Label: UGB47
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber

ID	176	Notes
Created on 02/10/2010. Please check with the manufacturer for the latest data.		

Label

SC-740 Chamber

Storage Chamber

Effective Length	7.12 ft	Manufacturer	StormTech
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25

Basin Volumes

Subsection: Storage Chamber System
Label: UGB47
Scenario: 100YR Projected
Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09
2.33	0.04
2.42	0.02
2.50	0.01

Storage Chamber	Incremental Volume Per Unit Length	Maximum Width
Storage Chamber Type		4.25 ft

Storage Chamber (Pond)	Incremental Volume Per Unit Length
Chamber System Invert	108.00 ft
Chamber System Rows	4
Chambers per Row	14
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover	6.0 in
Depth	6.0 in
Chamber System Fill Base	6.0 in
Chamber System Fill Side	1.000 H:V
Slope	12.0 in
Chamber System End Fill	False
Chamber System Includes Header?	

Basin Volumes

Subsection: Storage Chamber System
Label: UGB48
Scenario: 100YR Projected
Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber

ID	176	Notes
		Created on 02/10/2010. Please check with the manufacturer for the latest data.

Label	SC-740 Chamber
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Storage Chamber	
Effective Length	7.12 ft
Section Length Varies?	False
Manufacturer	StormTech
Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09

Basin Volumes

Subsection: Storage Chamber System
Label: UGB48
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)	
2.33	0.04	
2.42	0.02	
2.50	0.01	

Storage Chamber

Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width
		4.25 ft

Storage Chamber (Pond)

Chamber System Invert	100.90 ft
Chamber System Rows	3
Chambers per Row	4
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover	6.0 in
Depth	6.0 in
Chamber System Fill Base	6.0 in
Chamber System Fill Side Slope	1.000 H:V
Chamber System End Fill	12.0 in
Chamber System Includes Header?	False

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Subsection: Storage Chamber System
Label: UGB49
Scenario: 100YR Projected

Storage Chamber

ID	Notes
176	Created on 02/10/2010. Please check with tile manufacturer for the latest data.

Basin Volumes

Subsection: Storage Chamber System
Label: UGB49
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber

Label	SC-740 Chamber
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Storage Chamber

Effective Length	7.12 ft	Manufacturer	StormTech
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09
2.33	0.04
2.42	0.02
2.50	0.01

Storage Chamber

Basin Volumes

Subsection: Storage Chamber System
Label: UGB49
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber

Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width	4.25 ft
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Storage Chamber (Pond)	
Chamber System Invert	102.70 ft
Chamber System Rows	3
Chambers per Row	4
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover Depth	6.0 in
Chamber System Fill Base Depth	6.0 in
Chamber System Fill Side Slope	1.000 H:V
Chamber System End Fill	12.0 in
Chamber System Includes Header?	False

Subsection: Storage Chamber System
Label: UGB5
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber

ID	176	Created on 02/10/2010. Please check with the manufacturer for the latest data.
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Label

SC-740 Chamber

Storage Chamber

Effective Length Section Length Varies?	7.12 ft False	Manufacturer Default Spacing	StormTech 0.50 ft
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Depth-Incremental Volume Per Unit Length Curve

Basin Volumes

Subsection: Storage Chamber System
Label: UGB5
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09
2.33	0.04
2.42	0.02
2.50	0.01

Storage Chamber

Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width	4.25 ft
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Storage Chamber (Pond)

Chamber System Invert	94.00 ft
Chamber System Rows	4
Chambers per Row	7

Basin Volumes

Subsection: Storage Chamber System
Label: UGB5
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber (Pond)	
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill Depth	12.0 in
Chamber System Fill Base Depth	6.0 in
Chamber System Fill Side Slope	1.000 H:V
Chamber System End Fill Header?	12.0 in
Chamber System Includes Header?	False

Subsection: Storage Chamber System
Label: UGB50
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber	
ID	176
Notes	
Created on 02/10/2010. Please check with the manufacturer for the latest data.	
SC-740 Chamber	

Effective Length Section Length Varies?	7.12 ft False	Manufacturer Default Spacing	StormTech 0.50 ft
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Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29

PROJECTED POST Developed Park
Subarea.ppc
9/23/2024

Bentley Systems, Inc. Haestad Methods Solution Center
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Basin Volumes

Subsection: Storage Chamber System
Label: UGB50
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09
2.33	0.04
2.42	0.02
2.50	0.01

Storage Chamber

Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width
		4.25 ft

Storage Chamber (Pond)

Chamber System Invert	101.00 ft
Chamber System Rows	2
Chambers per Row	7
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover Depth	6.0 in

PROJECTED POST Developed Park
Subarea.ppc
9/23/2024

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Basin Volumes

Subsection: Storage Chamber System
Label: UGB50
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber (Pond)	
Chamber System Fill Base	6.0 in
Depth	
Chamber System Fill Side	1.000 H:V
Slope	
Chamber System End Fill	12.0 in
Chamber System Includes	False
Header?	

Subsection: Storage Chamber System
Label: UGB54
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber	
ID	215
Created on 02/10/2010. Please check with the manufacturer for the latest data.	
Notes	
Label	SC-310 Chamber
Storage Chamber	
Effective Length	7.12 ft
Section Length Varies?	False
Manufacturer	Default Spacing
StormTech	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.20
0.17	0.20
0.25	0.19
0.33	0.19
0.42	0.18
0.50	0.17
0.58	0.16
0.67	0.15
0.75	0.14
0.83	0.13
0.92	0.12
1.00	0.10
1.08	0.08
1.17	0.04

Basin Volumes

Subsection: Storage Chamber System
Label: UGB54
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length Curve	
Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
1.25	0.02
1.33	0.01

Storage Chamber	
Storage Chamber Type	Incremental Volume Per Unit Length
Maximum Width	
2.83 ft	

Storage Chamber (Pond)	
Chamber System Invert	99.00 ft
Chamber System Rows	3
Chambers per Row	7
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover Depth	6.0 in
Chamber System Fill Base	6.0 in
Chamber System Fill Side Slope	1.000 H:V
Chamber System End Fill	12.0 in
Chamber System Includes Header?	False

Subsection: Storage Chamber System
Label: UGB55
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber	
ID	176
Created on 02/10/2010. Please check with the manufacturer for the latest data.	
Notes	
Label	SC-740 Chamber

Basin Volumes

Subsection: Storage Chamber System
Label: UGB55
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber			
Effective Length	7.12 ft	Manufacturer	StormTech
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft ³ /ft)	
0.08	0.08	0.31
0.17	0.17	0.31
0.25	0.25	0.31
0.33	0.33	0.30
0.42	0.42	0.30
0.50	0.50	0.30
0.58	0.58	0.29
0.67	0.67	0.29
0.75	0.75	0.28
0.83	0.83	0.28
0.92	0.92	0.27
1.00	1.00	0.27
1.08	1.08	0.26
1.17	1.17	0.25
1.25	1.25	0.25
1.33	1.33	0.24
1.42	1.42	0.23
1.50	1.50	0.22
1.58	1.58	0.21
1.67	1.67	0.20
1.75	1.75	0.19
1.83	1.83	0.18
1.92	1.92	0.17
2.00	2.00	0.15
2.08	2.08	0.13
2.17	2.17	0.11
2.25	2.25	0.09
2.33	2.33	0.04
2.42	2.42	0.02
2.50	2.50	0.01

Storage Chamber		
Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width
		4.25 ft
Storage Chamber (Pond)		

Basin Volumes

Subsection: Storage Chamber System
Label: UGB55
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber (Pond)	
Chamber System Invert	106.00 ft
Chamber System Rows	20
Chambers per Row	20
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover Depth	6.0 in
Chamber System Fill Base Depth	6.0 in
Chamber System Fill Side Slope	1:000 H:V
Chamber System End Fill	12.0 in
Chamber System Includes Header?	False

Subsection: Storage Chamber System
Label: UGB56
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber	
ID	176
Created on 02/10/2010. Please check with the manufacturer for the latest data.	
Notes	
SC-740 Chamber	
Storage Chamber	
Effective Length	7.12 ft
Section Length Varies?	False
Manufacturer Default Spacing	StormTech 0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft ³ /ft)	
0.08	0.08	0.31
0.17	0.17	0.31
0.25	0.25	0.31

Basin Volumes

Subsection: Storage Chamber System
Label: UGB56
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09
2.33	0.04
2.42	0.02
2.50	0.01

Storage Chamber		
Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width
4.25 ft		

Storage Chamber (Pond)	
Chamber System Invert	110.00 ft
Chamber System Rows	27
Chambers per Row	23
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in

Basin Volumes

Subsection: Storage Chamber System
Label: UGB56
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber (Pond)	
Chamber System Side Fill	12.0 in
Chamber System Fill Cover Depth	6.0 in
Chamber System Fill Base Depth	6.0 in
Chamber System Fill Side Slope	1.000 H:V
Chamber System End Fill	12.0 in
Chamber System Includes Header?	False

Subsection: Storage Chamber System
Label: UGB57
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber		
ID	176	Created on 02/10/2010. Please check with the manufacturer for the latest data.
Notes		
SC-740 Chamber		
Storage Chamber		
Effective Length	7.12 ft	Manufacturer
Section Length Varies?	False	Default Spacing
		Storm Tech
		0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27

Basin Volumes

Subsection: Storage Chamber System
Label: UGB57
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09
2.33	0.04
2.42	0.02
2.50	0.01

Storage Chamber

Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width
		4.25 ft

Storage Chamber (Pond)

Chamber System Invert	1111.10 ft
Chamber System Rows	12
Chambers per Row	28
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover	6.0 in
Depth	
Chamber System Fill Base	6.0 in
Depth	
Chamber System Fill Side	1.000 H:V
Slope	

Basin Volumes

Subsection: Storage Chamber System
Label: UGB57
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber (Pond)

Chamber System End Fill	12.0 in
Chamber System Includes Header?	False

Subsection: Elevation vs. Volume Curve

Label: UGB59
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Elevation-Volume

Pond Elevation (ft)	Pond Volume (ft³)
104.00	0.000
104.50	8,977.000
107.12	50,781.000
107.62	52,221.000

Basin Volumes

Subsection: Storage Chamber System
Label: UGB6
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber			
ID	176	Notes	Created on 02/10/2010. Please check with the manufacturer for the latest data.
Label	SC-740 Chamber		
Storage Chamber			
Effective Length	7.12 ft	Manufacturer	StormTech
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length

Curve	
Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09

Basin Volumes

Subsection: Storage Chamber System
Label: UGB6
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length

Curve	
Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
2.33	0.04
2.42	0.02
2.50	0.01

Storage Chamber

Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width
4.25 ft		

Storage Chamber (Pond)

Chamber System Invert	94.00 ft
Chamber System Rows	4
Chambers per Row	7
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover Depth	6.0 in
Chamber System Fill Base Depth	6.0 in
Chamber System Fill Side Slope	1:000 H:V
Chamber System End Fill	12.0 in
Chamber System Includes Header?	False

Subsection: Storage Chamber System
Label: UGB60
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber

ID	Notes
176	Created on 02/10/2010. Please check with the manufacturer for the latest data.

Basin Volumes

Subsection: Storage Chamber System
Label: UGB60
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber			
Label	SC-740 Chamber		

Storage Chamber			
Effective Length	7.12 ft	Manufacturer	StormTech
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft ³ /ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09
2.33	0.04
2.42	0.02
2.50	0.01

Storage Chamber

Basin Volumes

Subsection: Storage Chamber System
Label: UGB60
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber			
Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width	4.25 ft

Storage Chamber (Pond)	
Chamber System Invert	111.10 ft
Chamber System Rows	12
Chambers per Row	28
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover Depth	6.0 in
Chamber System Fill Base Depth	6.0 in
Chamber System Fill Side Slope	1.000 H:V
Chamber System End Fill	12.0 in
Chamber System Includes Header?	False

Subsection: Storage Chamber System
Label: UGB61
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber	
ID	176

	Created on 02/10/2010. Please check with the manufacturer for the latest data.
Notes	

Label	SC-740 Chamber
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Storage Chamber			
Effective Length	7.12 ft	Manufacturer	StormTech
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Basin Volumes

Subsection: Storage Chamber System
Label: UGB61
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09
2.33	0.04
2.42	0.02
2.50	0.01

Storage Chamber		
Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width
		4.25 ft

Storage Chamber (Pond)		
Chamber System Invert	107.75 ft	
Chamber System Rows	4	
Chambers per Row	18	

Basin Volumes

Subsection: Storage Chamber System
Label: UGB61
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber (Pond)

Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill Depth	12.0 in
Chamber System Fill Cover Depth	6.0 in
Chamber System Fill Base Depth	6.0 in
Chamber System Fill Side Slope	1.000 H:V
Chamber System End Fill Depth	12.0 in
Chamber System Includes Header?	False

Subsection: Storage Chamber System
Label: UGB62
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber

ID	176
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Notes

Created on 02/10/2010. Please check with the manufacturer for the latest data.

Label	SC-740 Chamber
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Storage Chamber

Effective Length	7.12 ft	Manufacturer	StormTech
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29

Basin Volumes

Subsection: Storage Chamber System
Label: UGB62
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09
2.33	0.04
2.42	0.02
2.50	0.01

Storage Chamber

Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width
		4.25 ft

Storage Chamber (Pond)

Chamber System Invert	108.00 ft
Chamber System Rows	14
Chambers per Row	29
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover	6.0 in
Depth	

Basin Volumes

Subsection: Storage Chamber System
Label: UGB62
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber (Pond)

Chamber System Fill Base Depth	6.0 in
Chamber System Fill Side Slope	1.000 H:V
Chamber System End Fill	12.0 in
Chamber System Includes Header?	False

Subsection: Storage Chamber System

Label: UGB63
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber

ID	176	Notes
Created on 02/10/2010. Please check with the manufacturer for the latest data.		

Label

SC-740 Chamber

Storage Chamber

Effective Length	7.12 ft	Manufacturer	StormTech
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25

Basin Volumes

Subsection: Storage Chamber System
Label: UGB63
Scenario: 100YR Projected
Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length

Curve		
Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)	
1.25	0.25	
1.33	0.24	
1.42	0.23	
1.50	0.22	
1.58	0.21	
1.67	0.20	
1.75	0.19	
1.83	0.18	
1.92	0.17	
2.00	0.15	
2.08	0.13	
2.17	0.11	
2.25	0.09	
2.33	0.04	
2.42	0.02	
2.50	0.01	

Storage Chamber		
Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width
		4.25 ft

Storage Chamber (Pond)		
Chamber System Invert	104.00 ft	
Chamber System Rows	14	
Chambers per Row	14	
Chamber System Fill Void Space	40.0 %	
Chamber System Row Spacing	6.0 in	
Chamber System Side Fill	12.0 in	
Chamber System Fill Cover	6.0 in	
Depth	6.0 in	
Chamber System Fill Base	6.0 in	
Chamber System Fill Side	1.000 H:V	
Slope	12.0 in	
Chamber System End Fill		
Chamber System Includes Header?	False	

Basin Volumes

Subsection: Storage Chamber System
Label: UGB7
Scenario: 100YR Projected
Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber

ID	176	Notes
		Created on 02/10/2010. Please check with the manufacturer for the latest data.

Label	SC-740 Chamber
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Storage Chamber		
Effective Length	7.12 ft	Manufacturer
Section Length Varies?	False	Default Spacing
		StormTech
		0.50 ft

Depth-Incremental Volume Per Unit Length

Curve		
Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)	
0.08	0.31	
0.17	0.31	
0.25	0.31	
0.33	0.30	
0.42	0.30	
0.50	0.30	
0.58	0.29	
0.67	0.29	
0.75	0.28	
0.83	0.28	
0.92	0.27	
1.00	0.27	
1.08	0.26	
1.17	0.25	
1.25	0.25	
1.33	0.24	
1.42	0.23	
1.50	0.22	
1.58	0.21	
1.67	0.20	
1.75	0.19	
1.83	0.18	
1.92	0.17	
2.00	0.15	
2.08	0.13	
2.17	0.11	
2.25	0.09	

Basin Volumes

Subsection: Storage Chamber System
Label: UGB7
Scenario: 100YR Projected
Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)	
2.33	0.04	
2.42	0.02	
2.50	0.01	

Storage Chamber

Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width
		4.25 ft

Storage Chamber (Pond)

Chamber System Invert	99.00 ft
Chamber System Rows	8
Chambers per Row	7
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover	6.0 in
Depth	6.0 in
Chamber System Fill Base	6.0 in
Chamber System Fill Side Slope	1.000 H:V
Chamber System End Fill	12.0 in
Chamber System Includes Header?	False

Subsection: Storage Chamber System
Label: UGB9
Scenario: 100YR Projected
Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber

ID	Notes
176	Created on 02/10/2010. Please check with tile manufacturer for the latest data.

Basin Volumes

Subsection: Storage Chamber System
Label: UGB9
Scenario: 100YR Projected
Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber

Label	SC-740 Chamber
Effective Length	7.12 ft
Section Length Varies?	False
Manufacturer Default Spacing	StormTech 0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09
2.33	0.04
2.42	0.02
2.50	0.01

Storage Chamber

Basin Volumes

Subsection: Storage Chamber System

Label: UGB9

Scenario: 100YR Projected

Return Event: 100 years

Storm Event: 100yr Projected NOAA D

Storage Chamber		
Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width
Storage Chamber (Pond)		
Chamber System Invert	100.30 ft	
Chamber System Rows	4	
Chambers per Row	9	
Chamber System Fill Void Space	40.0 %	
Chamber System Row Spacing	6.0 in	
Chamber System Side Fill	12.0 in	
Chamber System Fill Cover Depth	6.0 in	
Chamber System Fill Base Depth	6.0 in	
Chamber System Fill Side Slope	1.000 H:V	
Chamber System End Fill	12.0 in	
Chamber System Includes Header?	False	

