Appendix B - Model Input Data

Infiltration Calculations

Percolation rates from USDA Suffolk County Soil Survey.
Soil found at site are:

Carver and Plymouth Sands (CpA, CpC and CpE)
Surface Percolation = 1.0 min / in => 0.0014 cfs
Subsurface Percolation = 0.8 min / in => 0.0017 cfs

Haven Loam (HaA, and HaB)
Surface Percolation = 20.9 min / in => 0.00006 cfs
Subsurface Percolation = 0.1 min / in => 0.0139 cfs

Plymouth Loamy Sand (PlA, PlB and PlC)
Surface Percolation = 5.9 min / in => 0.000235 cfs
Subsurface Percolation = 0.2 min / in => 0.0069 cfs

Riverhead Sandy Loam (RdA and RdB)
Surface Percolation = 29.0 min / in => 0.00005 cfs
Subsurface Percolation = 0.1 min / in => 0.0139 cfs

Sudbury Sandy Loam (no soil percolation presented in the Soil Survey)

To determine the infiltration an effective leaching area is assumed:
Leaching Pools (LP): The bottom of the leaching pool is assumed to be the leaching area.

A 12' Dia. Leaching pool has a bottom area of 100.8 sf

Surface Ponding infiltration is not considered in either pre or post-development conditions.

Pre-Development
No surface or sub-surface infiltration occurs.

Post-Development

DRA PB – (Soil CpC)
(16) 12' dia. LP x 100.8 sf x 0.0017 cfs / sf = 2.74 cfs

DRA PC – (Soil PlB)
(1) 12' dia. LP x 100.8 sf x 0.0069 cfs / sf = 0.70 cfs

DRA PD – (Soil RdB)
(1) 12' dia. LP x 100.8 sf x 0.0139 cfs / sf = 1.40 cfs

DRA PE – (Soil RdB)
(1) 12’ dia. LP x 100.8 sf x 0.0139 cfs / sf = 1.40 cfs

DRA PF – (Soil PlC)
(1) 12’ dia. LP x 100.8 sf x 0.0069 cfs = 0.70 cfs

DRA PH – (Soil CuB assume surrounding CpE)

DRA PI – (Soil CpE)
(1) 12’ dia. LP x 100.8 sf x 0.0017 cfs = 0.17 cfs

DRA PW – (Soil RdB)
(2) 12’ dia. LP x 100.8 sf x 0.0139 cfs / sf = 14.01 cfs

DRA PAL – (Soil CpC)
(5) 12’ dia. LP x 100.8 x 0.0017 cfs = 0.86 cfs

DRA PAO – (Soil CpC)
(14) 12’ dia. LP x 100.8 x 0.0017 cfs = 2.40 cfs

DRA PAW – (Soils PlA)
(10) 12’ dia. LP x 100.8 sf x 0.0069 cfs = 6.96 cfs

Pre-Development Input Data

TC Data

PRE-DEVELOPMENT - THE HILLS

Subsection: Time of Concentration Calculations
Label: DAE-A

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	250.00 ft
Manning's n	0.400
Slope	0.050 ft/ft
2 Year 24 Hour Depth	3.5 in
Average Velocity	0.14 ft/s
Segment Time of Concentration	0.494 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	888.00 ft
Is Paved?	False
Slope	0.030 ft/ft
Average Velocity	2.79 ft/s
Segment Time of Concentration	0.089 hours

Segment #3: TR-55 Shallow Concentrated Flow	
Hydraulic Length	775.00 ft
Is Paved?	False
Slope	0.016 ft/ft
Average Velocity	2.04 ft/s
Segment Time of Concentration	0.105 hours

Segment #4: TR-55 Shallow Concentrated Flow	
Hydraulic Length	1,522.00 ft
Is Paved?	False
Slope	0.016 ft/ft
Average Velocity	2.04 ft/s
Segment Time of Concentration	0.207 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.895 hours

PRE-DEVELOPMENT - THE HILLS

Subsection: Time of Concentration Calculations
Label: DAE-B

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	250.00 ft
Manning's n	0.400
Slope	0.050 ft/ft
2 Year 24 Hour Depth	3.5 in
Average Velocity	0.14 ft/s
Segment Time of Concentration	0.494 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	300.00 ft
Is Paved?	False
Slope	0.026 ft/ft
Average Velocity	2.60 ft/s
Segment Time of Concentration	0.032 hours

Segment #3: TR-55 Shallow Concentrated Flow	
Hydraulic Length	5,297.00 ft
Is Paved?	False
Slope	0.010 ft/ft
Average Velocity	1.61 ft/s
Segment Time of Concentration	0.912 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	1.438 hours

PRE-DEVELOPMENT - THE HILLS

Subsection: Time of Concentration Calculations
Label: DAE-C

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	250.00 ft
Manning's n	0.400
Slope	0.052 ft/ft
2 Year 24 Hour Depth	3.5 in
Average Velocity	0.14 ft/s
Segment Time of Concentration	0.486 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	770.00 ft
Is Paved?	False
Slope	0.054 ft/ft
Average Velocity	3.75 ft/s
Segment Time of Concentration	0.057 hours

Segment #3: TR-55 Shallow Concentrated Flow	
Hydraulic Length	547.00 ft
Is Paved?	False
Slope	0.033 ft/ft
Average Velocity	2.93 ft/s
Segment Time of Concentration	0.052 hours

Segment #4: TR-55 Shallow Concentrated Flow	
Hydraulic Length	1,145.00 ft
Is Paved?	False
Slope	0.044 ft/ft
Average Velocity	3.38 ft/s
Segment Time of Concentration	0.094 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.689 hours

PRE-DEVELOPMENT - THE HILLS

Subsection: Time of Concentration Calculations
Label: DAE-D

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	250.00 ft
Manning's n	0.011
Slope	0.016 ft/ft
2 Year 24 Hour Depth	3.5 in
Average Velocity	1.58 ft/s
Segment Time of Concentration	0.044 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	209.00 ft
Is Paved?	False
Slope	0.076 ft/ft
Average Velocity	4.45 ft/s
Segment Time of Concentration	0.013 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.057 hours

PRE-DEVELOPMENT - THE HILLS

Subsection: Time of Concentration Calculations
Label: DAE-E

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	107.00 ft
Manning's n	0.400
Slope	0.106 ft/ft
2 Year 24 Hour Depth	3.5 in
Average Velocity	0.16 ft/s
Segment Time of Concentration	0.185 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	204.00 ft
Is Paved?	False
Slope	0.029 ft/ft
Average Velocity	2.75 ft/s
Segment Time of Concentration	0.021 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.206 hours

PRE-DEVELOPMENT - THE HILLS

Subsection: Time of Concentration Calculations
Label: DAE-F

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	250.00 ft
Manning's n	0.400
Slope	0.028 ft/ft
2 Year 24 Hour Depth	3.5 in
Average Velocity	0.11 ft/s
Segment Time of Concentration	0.623 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	302.00 ft
Is Paved?	False
Slope	0.061 ft/ft
Average Velocity	3.98 ft/s
Segment Time of Concentration	0.021 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.644 hours

PRE-DEVELOPMENT - THE HILLS

Subsection: Time of Concentration Calculations
Label: DAE-G

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	250.00 ft
Manning's n	0.400
Slope	0.080 ft/ft
2 Year 24 Hour Depth	3.5 in
Average Velocity	0.17 ft/s
Segment Time of Concentration	0.409 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	198.00 ft
Is Paved?	False
Slope	0.111 ft/ft
Average Velocity	5.38 ft/s
Segment Time of Concentration	0.010 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.419 hours

PRE-DEVELOPMENT - THE HILLS

Subsection: Time of Concentration Calculations
Label: DAE-H

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	250.00 ft
Manning's n	0.400
Slope	0.056 ft/ft
2 Year 24 Hour Depth	3.5 in
Average Velocity	0.15 ft/s
Segment Time of Concentration	0.472 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	247.00 ft
Is Paved?	False
Slope	0.065 ft/ft
Average Velocity	4.11 ft/s
Segment Time of Concentration	0.017 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.489 hours

PRE-DEVELOPMENT - THE HILLS

Subsection: Time of Concentration Calculations
Label: DAE-I

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	250.00 ft
Manning's n	0.400
Slope	0.003 ft/ft
2 Year 24 Hour Depth	3.5 in
Average Velocity	0.04 ft/s
Segment Time of Concentration	1.636 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	1,171.00 ft
Is Paved?	False
Slope	0.022 ft/ft
Average Velocity	2.39 ft/s
Segment Time of Concentration	0.136 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	1.772 hours

PRE-DEVELOPMENT - THE HILLS

Subsection: Time of Concentration Calculations
Label: DAE-J

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	250.00 ft
Manning's n	0.400
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.5 in
Average Velocity	0.10 ft/s
Segment Time of Concentration	0.712 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	1,392.00 ft
Is Paved?	False
Slope	0.032 ft/ft
Average Velocity	2.89 ft/s
Segment Time of Concentration	0.134 hours

Segment #3: TR-55 Shallow Concentrated Flow	
Hydraulic Length	356.00 ft
Is Paved?	False
Slope	0.042 ft/ft
Average Velocity	3.31 ft/s
Segment Time of Concentration	0.030 hours

Segment #4: TR-55 Shallow Concentrated Flow	
Hydraulic Length	3,023.00 ft
Is Paved?	False
Slope	0.015 ft/ft
Average Velocity	1.98 ft/s
Segment Time of Concentration	0.425 hours

Segment #5: TR-55 Shallow Concentrated Flow	
Hydraulic Length	1,025.00 ft
Is Paved?	False
Slope	0.012 ft/ft
Average Velocity	1.77 ft/s
Segment Time of Concentration	0.161 hours

Time of Concentration (Composite)

Subsection: Time of Concentration Calculations
Label: DAE-J

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration (Composite)	
Time of Concentration (Composite)	1.462 hours

PRE-DEVELOPMENT - THE HILLS

Subsection: Time of Concentration Calculations
Label: DAE-K

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	250.00 ft
Manning's n	0.060
Slope	0.044 ft/ft
2 Year 24 Hour Depth	3.5 in
Average Velocity	0.61 ft/s
Segment Time of Concentration	0.114 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	1,395.00 ft
Is Paved?	False
Slope	0.033 ft/ft
Average Velocity	2.93 ft/s
Segment Time of Concentration	0.132 hours

Segment #3: TR-55 Shallow Concentrated Flow	
Hydraulic Length	1,656.00 ft
Is Paved?	False
Slope	0.017 ft/ft
Average Velocity	2.10 ft/s
Segment Time of Concentration	0.219 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.465 hours

PRE-DEVELOPMENT - THE HILLS

Subsection: Time of Concentration Calculations
Label: DAE-L

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	162.00 ft
Manning's n	0.400
Slope	0.179 ft/ft
2 Year 24 Hour Depth	3.5 in
Average Velocity	0.21 ft/s
Segment Time of Concentration	0.209 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.209 hours

PRE-DEVELOPMENT - THE HILLS

Subsection: Time of Concentration Calculations
Label: DAE-M

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	250.00 ft
Manning's n	0.240
Slope	0.004 ft/ft
2 Year 24 Hour Depth	3.5 in
Average Velocity	0.08 ft/s
Segment Time of Concentration	0.901 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	702.00 ft
Is Paved?	False
Slope	0.011 ft/ft
Average Velocity	1.69 ft/s
Segment Time of Concentration	0.115 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	1.016 hours

PRE-DEVELOPMENT - THE HILLS

Subsection: Time of Concentration Calculations
Label: DAE-N

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	250.00 ft
Manning's n	0.240
Slope	0.013 ft/ft
2 Year 24 Hour Depth	3.5 in
Average Velocity	0.12 ft/s
Segment Time of Concentration	0.562 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	1,695.00 ft
Is Paved?	False
Slope	0.007 ft/ft
Average Velocity	1.35 ft/s
Segment Time of Concentration	0.349 hours

Segment #3: TR-55 Shallow Concentrated Flow	
Hydraulic Length	605.00 ft
Is Paved?	False
Slope	0.013 ft/ft
Average Velocity	1.84 ft/s
Segment Time of Concentration	0.091 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	1.002 hours

PRE-DEVELOPMENT - THE HILLS

Subsection: Time of Concentration Calculations
Label: DAE-O

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	250.00 ft
Manning's n	0.400
Slope	0.005 ft/ft
2 Year 24 Hour Depth	3.5 in
Average Velocity	0.06 ft/s
Segment Time of Concentration	1.240 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	244.00 ft
Is Paved?	False
Slope	0.005 ft/ft
Average Velocity	1.14 ft/s
Segment Time of Concentration	0.059 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	1.300 hours

CN Data

PRE-DEVELOPMENT - THE HILLS

Subsection: Runoff CN-Area
Label: DAE-A

Return Event: 100 years
Storm Event: 100 YEAR

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Woods - good - Soil A	30.000	138.760	0.0	0.0	30.000
Sand	20.000	20.630	0.0	0.0	20.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	159.390	(N/A)	(N/A)	28.706

PRE-DEVELOPMENT - THE HILLS

Subsection: Runoff CN-Area
Label: DAE-B

Return Event: 100 years
Storm Event: 100 YEAR

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious Areas - Paved parking lots, roofs, driveways, Streets and roads - Soil A	98.000	5.060	0.0	0.0	98.000
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil A	39.000	24.810	0.0	0.0	39.000
Woods - good - Soil A	30.000	2.390	0.0	0.0	30.000
Impervious Areas - Dirt (w/ right-of-way) - Soil A	72.000	3.270	0.0	0.0	72.000
Row crops - Straight row (SR), good - Soil A	67.000	76.050	0.0	0.0	67.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	111.580	(N/A)	(N/A)	61.534

PRE-DEVELOPMENT - THE HILLS

Subsection: Runoff CN-Area
Label: DAE-C

Return Event: 100 years
Storm Event: 100 YEAR

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Woods - good - Soil A	30.000	50.300	0.0	0.0	30.000
Sand	20.000	8.400	0.0	0.0	20.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	58.700	(N/A)	(N/A)	28.569

PRE-DEVELOPMENT - THE HILLS

Subsection: Runoff CN-Area
Label: DAE-D

Return Event: 100 years
Storm Event: 100 YEAR

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Woods - good - Soil A	30.000	2.840	0.0	0.0	30.000
Sand	20.000	0.670	0.0	0.0	20.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	3.510	(N/A)	(N/A)	28.091

PRE-DEVELOPMENT - THE HILLS

Subsection: Runoff CN-Area
Label: DAE-E

Return Event: 100 years
Storm Event: 100 YEAR

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Woods - good - Soil A	30.000	3.060	0.0	0.0	30.000
Sand	20.000	0.150	0.0	0.0	20.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	3.210	(N/A)	(N/A)	29.533

PRE-DEVELOPMENT - THE HILLS

Subsection: Runoff CN-Area
Label: DAE-F

Return Event: 100 years
Storm Event: 100 YEAR

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Woods - good - Soil A	30.000	6.360	0.0	0.0	30.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	6.360	(N/A)	(N/A)	30.000

PRE-DEVELOPMENT - THE HILLS

Subsection: Runoff CN-Area
Label: DAE-G

Return Event: 100 years
Storm Event: 100 YEAR

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Woods - good - Soil A	30.000	3.410	0.0	0.0	30.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	3.410	(N/A)	(N/A)	30.000

PRE-DEVELOPMENT - THE HILLS

Subsection: Runoff CN-Area
Label: DAE-H

Return Event: 100 years
Storm Event: 100 YEAR

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Woods - good - Soil A	30.000	4.420	0.0	0.0	30.000
Sand	20.000	0.430	0.0	0.0	20.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	4.850	(N/A)	(N/A)	29.113

PRE-DEVELOPMENT - THE HILLS

Subsection: Runoff CN-Area
Label: DAE-I

Return Event: 100 years
Storm Event: 100 YEAR

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious Areas - Paved parking lots, roofs, driveways, Streets and roads - Soil A	98.000	2.930	0.0	0.0	98.000
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil A	39.000	0.290	0.0	0.0	39.000
Woods - good - Soil A	30.000	23.800	0.0	0.0	30.000
Sand	20.000	4.670	0.0	0.0	20.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	31.690	(N/A)	(N/A)	34.896

PRE-DEVELOPMENT - THE HILLS

Subsection: Runoff CN-Area
Label: DAE-J

Return Event: 100 years
Storm Event: 100 YEAR

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious Areas - Paved parking lots, roofs, driveways, Streets and roads - Soil A	98.000	1.480	0.0	0.0	98.000
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil A	39.000	1.650	0.0	0.0	39.000
Woods - good - Soil A	30.000	67.580	0.0	0.0	30.000
Impervious Areas - Dirt (w/ right-of-way) - Soil A	72.000	1.700	0.0	0.0	72.000
Row crops - Straight row (SR), good - Soil A	67.000	81.660	0.0	0.0	67.000
Sand	20.000	21.460	0.0	0.0	20.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	175.530	(N/A)	(N/A)	47.055

PRE-DEVELOPMENT - THE HILLS

Subsection: Runoff CN-Area
Label: DAE-K

Return Event: 100 years
Storm Event: 100 YEAR

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious Areas - Paved parking lots, roofs, driveways, Streets and roads - Soil A	98.000	0.420	0.0	0.0	98.000
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil A	39.000	0.300	0.0	0.0	39.000
Woods - good - Soil A	30.000	95.860	0.0	0.0	30.000
Sand	20.000	18.070	0.0	0.0	20.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	114.650	(N/A)	(N/A)	28.697

PRE-DEVELOPMENT - THE HILLS

Subsection: Runoff CN-Area
Label: DAE-L

Return Event: 100 years
Storm Event: 100 YEAR

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Woods - good - Soil A	30.000	3.090	0.0	0.0	30.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	3.090	(N/A)	(N/A)	30.000

PRE-DEVELOPMENT - THE HILLS

Subsection: Runoff CN-Area
Label: DAE-M

Return Event: 100 years
Storm Event: 100 YEAR

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil A	39.000	0.620	0.0	0.0	39.000
Woods - good - Soil A	30.000	0.250	0.0	0.0	30.000
Impervious Areas - Dirt (w/ right-of-way) - Soil A	72.000	0.180	0.0	0.0	72.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	1.050	(N/A)	(N/A)	42.514

PRE-DEVELOPMENT - THE HILLS

Subsection: Runoff CN-Area
Label: DAE-N

Return Event: 100 years
Storm Event: 100 YEAR

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious Areas - Paved parking lots, roofs, driveways, Streets and roads - Soil A	98.000	6.380	0.0	0.0	98.000
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil A	39.000	26.800	0.0	0.0	39.000
Woods - good - Soil A	30.000	42.680	0.0	0.0	30.000
Impervious Areas - Dirt (w/ right-of-way) - Soil A	72.000	0.680	0.0	0.0	72.000
Row crops - Straight row (SR), good - Soil A	67.000	10.320	0.0	0.0	67.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	86.860	(N/A)	(N/A)	42.496

PRE-DEVELOPMENT - THE HILLS

Subsection: Runoff CN-Area
Label: DAE-O

Return Event: 100 years
Storm Event: 100 YEAR

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Woods - good - Soil A	30.000	15.810	0.0	0.0	30.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	15.810	(N/A)	(N/A)	30.000

Storage Data

PRE-DEVELOPMENT - THE HILLS

Subsection: Elevation-Area Volume Curve
Label: DRA EC

Return Event: 100 years
Storm Event: 100 YEAR

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ac-ft)	Volume (Total) (ac-ft)
156.00	0.0	0.010	0.000	0.000	0.000
158.00	0.0	0.110	0.153	0.102	0.102
160.00	0.0	0.270	0.552	0.368	0.470
160.50	0.0	0.280	0.825	0.137	0.608

PRE-DEVELOPMENT - THE HILLS

Subsection: Elevation-Area Volume Curve
Label: DRA ED

Return Event: 100 years
Storm Event: 100 YEAR

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ac-ft)	Volume (Total) (ac-ft)
208.00	0.0	0.040	0.000	0.000	0.000
210.00	0.0	0.140	0.255	0.170	0.170
212.00	0.0	0.420	0.802	0.535	0.705
212.50	0.0	0.430	1.275	0.212	0.917

PRE-DEVELOPMENT - THE HILLS

Subsection: Elevation-Area Volume Curve
Label: DRA EE

Return Event: 100 years
Storm Event: 100 YEAR

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ac-ft)	Volume (Total) (ac-ft)
208.00	0.0	0.040	0.000	0.000	0.000
210.00	0.0	0.140	0.255	0.170	0.170
212.00	0.0	0.260	0.591	0.394	0.564
214.00	0.0	0.410	0.996	0.664	1.228
214.50	0.0	0.420	1.245	0.207	1.436

PRE-DEVELOPMENT - THE HILLS

Subsection: Elevation-Area Volume Curve
Label: DRA EF

Return Event: 100 years
Storm Event: 100 YEAR

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ac-ft)	Volume (Total) (ac-ft)
182.00	0.0	0.010	0.000	0.000	0.000
184.00	0.0	0.090	0.130	0.087	0.087
186.00	0.0	0.220	0.451	0.300	0.387
188.00	0.0	0.370	0.875	0.584	0.971
188.50	0.0	0.380	1.125	0.187	1.158

PRE-DEVELOPMENT - THE HILLS

Subsection: Elevation-Area Volume Curve
Label: DRA EG

Return Event: 100 years
Storm Event: 100 YEAR

Elevation (ft)	Planimeter (ft^2)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ac-ft)	Volume (Total) (ac-ft)
142.00	0.0	0.010	0.000	0.000	0.000
144.00	0.0	0.020	0.044	0.029	0.029
146.00	0.0	0.070	0.127	0.085	0.114
148.00	0.0	0.160	0.336	0.224	0.338
150.00	0.0	0.310	0.693	0.462	0.800
152.00	0.0	0.550	1.273	0.849	1.649
152.50	0.0	0.560	1.665	0.278	1.926

PRE-DEVELOPMENT - THE HILLS

Subsection: Elevation-Area Volume Curve
Label: DRA EH

Return Event: 100 years
Storm Event: 100 YEAR

Elevation (ft)	Planimeter (ft^2)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ac-ft)	Volume (Total) (ac-ft)
176.00	0.0	0.010	0.000	0.000	0.000
178.00	0.0	0.060	0.094	0.063	0.063
180.00	0.0	0.140	0.292	0.194	0.257
182.00	0.0	0.280	0.618	0.412	0.669
184.00	0.0	0.440	1.071	0.714	1.383
184.50	0.0	0.450	1.335	0.222	1.606

PRE-DEVELOPMENT - THE HILLS

Subsection: Elevation-Area Volume Curve
Label: DRA EI

Return Event: 100 years
Storm Event: 100 YEAR

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ac-ft)	Volume (Total) (ac-ft)
22.00	0.0	0.010	0.000	0.000	0.000
24.00	0.0	0.030	0.057	0.038	0.038
26.00	0.0	0.140	0.235	0.157	0.195
27.00	0.0	0.280	0.618	0.206	0.401
27.50	0.0	0.290	0.855	0.142	0.543
28.00	0.0	0.290	0.870	0.145	0.688

PRE-DEVELOPMENT - THE HILLS

Subsection: Elevation-Area Volume Curve
Label: DRA EK

Return Event: 100 years
Storm Event: 100 YEAR

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ac-ft)	Volume (Total) (ac-ft)
34.00	0.0	0.170	0.000	0.000	0.000
36.00	0.0	0.830	1.376	0.917	0.917
36.50	0.0	0.840	2.505	0.417	1.335
37.00	0.0	0.840	2.520	0.420	1.755

PRE-DEVELOPMENT - THE HILLS

Subsection: Elevation-Area Volume Curve
Label: DRA EL

Return Event: 100 years
Storm Event: 100 YEAR

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ac-ft)	Volume (Total) (ac-ft)
140.00	0.0	0.065	0.000	0.000	0.000
142.00	0.0	0.185	0.360	0.240	0.240
144.00	0.0	0.317	0.744	0.496	0.736
146.00	0.0	0.462	1.162	0.774	1.510
148.00	0.0	0.627	1.627	1.085	2.595
150.00	0.0	0.823	2.168	1.446	4.041
152.00	0.0	1.056	2.811	1.874	5.915

Outlet Data

Subsection: Outlet Input Data
Label: OUT EC

Return Event: 100 years
Storm Event: 100 YEAR

Requested Pond Water Surface Elevations	
Minimum (Headwater)	156.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	160.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	Weir - 1	Forward	TW	160.00	160.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

Subsection: Outlet Input Data
Label: OUT EC

Return Event: 100 years
Storm Event: 100 YEAR

Structure ID: Weir - 1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	160.00 ft
Weir Length	5.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

Subsection: Outlet Input Data
Label: OUT ED

Return Event: 100 years
Storm Event: 100 YEAR

Requested Pond Water Surface Elevations	
Minimum (Headwater)	208.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	212.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	Weir - 1	Forward	TW	212.00	212.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

Subsection: Outlet Input Data
Label: OUT ED

Return Event: 100 years
Storm Event: 100 YEAR

Structure ID: Weir - 1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	212.00 ft
Weir Length	5.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

Subsection: Outlet Input Data
Label: OUT EE

Return Event: 100 years
Storm Event: 100 YEAR

Requested Pond Water Surface Elevations	
Minimum (Headwater)	208.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	214.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	Weir - 1	Forward	TW	214.00	214.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

Subsection: Outlet Input Data
Label: OUT EE

Return Event: 100 years
Storm Event: 100 YEAR

Structure ID: Weir - 1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	214.00 ft
Weir Length	5.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

Subsection: Outlet Input Data
Label: OUT EF

Return Event: 100 years
Storm Event: 100 YEAR

Requested Pond Water Surface Elevations	
Minimum (Headwater)	182.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	188.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	Weir - 1	Forward	TW	188.00	188.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

Subsection: Outlet Input Data
Label: OUT EF

Return Event: 100 years
Storm Event: 100 YEAR

Structure ID: Weir - 1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	188.00 ft
Weir Length	5.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

Subsection: Outlet Input Data
Label: OUT EG

Return Event: 100 years
Storm Event: 100 YEAR

Requested Pond Water Surface Elevations	
Minimum (Headwater)	142.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	152.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	Weir - 1	Forward	TW	152.00	152.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

Subsection: Outlet Input Data
Label: OUT EG

Return Event: 100 years
Storm Event: 100 YEAR

Structure ID: Weir - 1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	152.00 ft
Weir Length	5.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

Subsection: Outlet Input Data
Label: OUT EH

Return Event: 100 years
Storm Event: 100 YEAR

Requested Pond Water Surface Elevations	
Minimum (Headwater)	176.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	184.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	Weir - 1	Forward	TW	184.00	184.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

Subsection: Outlet Input Data
Label: OUT EH

Return Event: 100 years
Storm Event: 100 YEAR

Structure ID: Weir - 1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	184.00 ft
Weir Length	5.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

Subsection: Outlet Input Data
Label: OUT EI

Return Event: 100 years
Storm Event: 100 YEAR

Requested Pond Water Surface Elevations	
Minimum (Headwater)	22.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	28.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	Weir - 1	Forward	TW	27.00	28.00
Tailwater Settings	Tailwater			(N/A)	(N/A)

Subsection: Outlet Input Data
Label: OUT EI

Return Event: 100 years
Storm Event: 100 YEAR

Structure ID: Weir - 1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	27.00 ft
Weir Length	80.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

Subsection: Outlet Input Data
Label: OUT EK

Return Event: 100 years
Storm Event: 100 YEAR

Requested Pond Water Surface Elevations	
Minimum (Headwater)	34.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	37.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	Weir - 1	Forward	TW	36.00	37.00
Tailwater Settings	Tailwater			(N/A)	(N/A)

Subsection: Outlet Input Data
Label: OUT EK

Return Event: 100 years
Storm Event: 100 YEAR

Structure ID: Weir - 1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	36.00 ft
Weir Length	75.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

Subsection: Outlet Input Data
Label: OUT EL

Return Event: 100 years
Storm Event: 100 YEAR

Requested Pond Water Surface Elevations	
Minimum (Headwater)	140.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	152.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	Weir - 1	Forward	TW	150.00	152.00
Tailwater Settings	Tailwater			(N/A)	(N/A)

Subsection: Outlet Input Data
Label: OUT EL

Return Event: 100 years
Storm Event: 100 YEAR

Structure ID: Weir - 1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	150.00 ft
Weir Length	10.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

Post-Development Input Data

TC Data

POST-DEVELOPMENT - THE HILLS

Subsection: Time of Concentration Calculations
Label: DAP-A

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	250.00 ft
Manning's n	0.400
Slope	0.050 ft/ft
2 Year 24 Hour Depth	3.5 in
Average Velocity	0.14 ft/s
Segment Time of Concentration	0.494 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	300.00 ft
Is Paved?	False
Slope	0.026 ft/ft
Average Velocity	2.60 ft/s
Segment Time of Concentration	0.032 hours

Segment #3: TR-55 Shallow Concentrated Flow	
Hydraulic Length	5,297.00 ft
Is Paved?	False
Slope	0.010 ft/ft
Average Velocity	1.61 ft/s
Segment Time of Concentration	0.912 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	1.438 hours

POST-DEVELOPMENT - THE HILLS

Subsection: Time of Concentration Calculations
Label: DAP-AA

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	250.00 ft
Manning's n	0.240
Slope	0.056 ft/ft
2 Year 24 Hour Depth	3.5 in
Average Velocity	0.22 ft/s
Segment Time of Concentration	0.314 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	53.00 ft
Is Paved?	False
Slope	0.151 ft/ft
Average Velocity	6.27 ft/s
Segment Time of Concentration	0.002 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.316 hours

POST-DEVELOPMENT - THE HILLS

Subsection: Time of Concentration Calculations
Label: DAP-AB

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	237.00 ft
Manning's n	0.240
Slope	0.101 ft/ft
2 Year 24 Hour Depth	3.5 in
Average Velocity	0.28 ft/s
Segment Time of Concentration	0.237 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.237 hours

POST-DEVELOPMENT - THE HILLS

Subsection: Time of Concentration Calculations
Label: DAP-AC

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	250.00 ft
Manning's n	0.240
Slope	0.092 ft/ft
2 Year 24 Hour Depth	3.5 in
Average Velocity	0.27 ft/s
Segment Time of Concentration	0.257 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	477.00 ft
Is Paved?	False
Slope	0.048 ft/ft
Average Velocity	3.53 ft/s
Segment Time of Concentration	0.037 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.295 hours

POST-DEVELOPMENT - THE HILLS

Subsection: Time of Concentration Calculations
Label: DAP-AD

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	250.00 ft
Manning's n	0.240
Slope	0.064 ft/ft
2 Year 24 Hour Depth	3.5 in
Average Velocity	0.23 ft/s
Segment Time of Concentration	0.297 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	150.00 ft
Is Paved?	False
Slope	0.066 ft/ft
Average Velocity	4.15 ft/s
Segment Time of Concentration	0.010 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.307 hours

POST-DEVELOPMENT - THE HILLS

Subsection: Time of Concentration Calculations
Label: DAP-AE

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	190.00 ft
Manning's n	0.240
Slope	0.042 ft/ft
2 Year 24 Hour Depth	3.5 in
Average Velocity	0.19 ft/s
Segment Time of Concentration	0.282 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.282 hours

POST-DEVELOPMENT - THE HILLS

Subsection: Time of Concentration Calculations
Label: DAP-AF

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	250.00 ft
Manning's n	0.240
Slope	0.012 ft/ft
2 Year 24 Hour Depth	3.5 in
Average Velocity	0.12 ft/s
Segment Time of Concentration	0.581 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	395.00 ft
Is Paved?	True
Slope	0.010 ft/ft
Average Velocity	2.03 ft/s
Segment Time of Concentration	0.054 hours

Segment #3: TR-55 Shallow Concentrated Flow	
Hydraulic Length	395.00 ft
Is Paved?	True
Slope	0.010 ft/ft
Average Velocity	2.03 ft/s
Segment Time of Concentration	0.054 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.689 hours

POST-DEVELOPMENT - THE HILLS

Subsection: Time of Concentration Calculations
Label: DAP-AG

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	250.00 ft
Manning's n	0.400
Slope	0.036 ft/ft
2 Year 24 Hour Depth	3.5 in
Average Velocity	0.12 ft/s
Segment Time of Concentration	0.563 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	361.00 ft
Is Paved?	False
Slope	0.019 ft/ft
Average Velocity	2.22 ft/s
Segment Time of Concentration	0.045 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.608 hours

POST-DEVELOPMENT - THE HILLS

Subsection: Time of Concentration Calculations
Label: DAP-AH

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	250.00 ft
Manning's n	0.240
Slope	0.036 ft/ft
2 Year 24 Hour Depth	3.5 in
Average Velocity	0.19 ft/s
Segment Time of Concentration	0.374 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.374 hours

POST-DEVELOPMENT - THE HILLS

Subsection: Time of Concentration Calculations
Label: DAP-AI

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	250.00 ft
Manning's n	0.400
Slope	0.008 ft/ft
2 Year 24 Hour Depth	3.5 in
Average Velocity	0.07 ft/s
Segment Time of Concentration	1.028 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	547.00 ft
Is Paved?	False
Slope	0.016 ft/ft
Average Velocity	2.04 ft/s
Segment Time of Concentration	0.074 hours

Segment #3: TR-55 Shallow Concentrated Flow	
Hydraulic Length	212.00 ft
Is Paved?	True
Slope	0.051 ft/ft
Average Velocity	4.59 ft/s
Segment Time of Concentration	0.013 hours

Segment #4: TR-55 Shallow Concentrated Flow	
Hydraulic Length	345.00 ft
Is Paved?	False
Slope	0.011 ft/ft
Average Velocity	1.69 ft/s
Segment Time of Concentration	0.057 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	1.172 hours

POST-DEVELOPMENT - THE HILLS

Subsection: Time of Concentration Calculations
Label: DAP-AJ

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	250.00 ft
Manning's n	0.400
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.5 in
Average Velocity	0.10 ft/s
Segment Time of Concentration	0.712 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	572.00 ft
Is Paved?	False
Slope	0.019 ft/ft
Average Velocity	2.22 ft/s
Segment Time of Concentration	0.071 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.784 hours

POST-DEVELOPMENT - THE HILLS

Subsection: Time of Concentration Calculations
Label: DAP-AK

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	250.00 ft
Manning's n	0.011
Slope	0.010 ft/ft
2 Year 24 Hour Depth	3.5 in
Average Velocity	1.31 ft/s
Segment Time of Concentration	0.053 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.053 hours

POST-DEVELOPMENT - THE HILLS

Subsection: Time of Concentration Calculations
Label: DAP-AL

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	250.00 ft
Manning's n	0.400
Slope	0.010 ft/ft
2 Year 24 Hour Depth	3.5 in
Average Velocity	0.07 ft/s
Segment Time of Concentration	0.940 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	436.00 ft
Is Paved?	False
Slope	0.047 ft/ft
Average Velocity	3.50 ft/s
Segment Time of Concentration	0.035 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.974 hours

POST-DEVELOPMENT - THE HILLS

Subsection: Time of Concentration Calculations
Label: DAP-AM

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	250.00 ft
Manning's n	0.400
Slope	0.092 ft/ft
2 Year 24 Hour Depth	3.5 in
Average Velocity	0.18 ft/s
Segment Time of Concentration	0.387 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	180.00 ft
Is Paved?	False
Slope	0.072 ft/ft
Average Velocity	4.33 ft/s
Segment Time of Concentration	0.012 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.398 hours

POST-DEVELOPMENT - THE HILLS

Subsection: Time of Concentration Calculations
Label: DAP-AO

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	250.00 ft
Manning's n	0.400
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.5 in
Average Velocity	0.10 ft/s
Segment Time of Concentration	0.712 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	238.00 ft
Is Paved?	False
Slope	0.029 ft/ft
Average Velocity	2.75 ft/s
Segment Time of Concentration	0.024 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.736 hours

POST-DEVELOPMENT - THE HILLS

Subsection: Time of Concentration Calculations
Label: DAP-AP

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	180.00 ft
Manning's n	0.240
Slope	0.044 ft/ft
2 Year 24 Hour Depth	3.5 in
Average Velocity	0.19 ft/s
Segment Time of Concentration	0.266 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.266 hours

POST-DEVELOPMENT - THE HILLS

Subsection: Time of Concentration Calculations
Label: DAP-AQ

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	250.00 ft
Manning's n	0.240
Slope	0.028 ft/ft
2 Year 24 Hour Depth	3.5 in
Average Velocity	0.17 ft/s
Segment Time of Concentration	0.414 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	357.00 ft
Is Paved?	False
Slope	0.001 ft/ft
Average Velocity	0.51 ft/s
Segment Time of Concentration	0.194 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.608 hours

POST-DEVELOPMENT - THE HILLS

Subsection: Time of Concentration Calculations
Label: DAP-AR

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	250.00 ft
Manning's n	0.240
Slope	0.028 ft/ft
2 Year 24 Hour Depth	3.5 in
Average Velocity	0.17 ft/s
Segment Time of Concentration	0.414 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	50.00 ft
Is Paved?	False
Slope	0.040 ft/ft
Average Velocity	3.23 ft/s
Segment Time of Concentration	0.004 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.418 hours

POST-DEVELOPMENT - THE HILLS

Subsection: Time of Concentration Calculations
Label: DAP-AS

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	250.00 ft
Manning's n	0.400
Slope	0.016 ft/ft
2 Year 24 Hour Depth	3.5 in
Average Velocity	0.09 ft/s
Segment Time of Concentration	0.779 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	937.00 ft
Is Paved?	False
Slope	0.024 ft/ft
Average Velocity	2.50 ft/s
Segment Time of Concentration	0.104 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.883 hours

POST-DEVELOPMENT - THE HILLS

Subsection: Time of Concentration Calculations
Label: DAP-AT

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	250.00 ft
Manning's n	0.240
Slope	0.032 ft/ft
2 Year 24 Hour Depth	3.5 in
Average Velocity	0.18 ft/s
Segment Time of Concentration	0.392 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.392 hours

POST-DEVELOPMENT - THE HILLS

Subsection: Time of Concentration Calculations
Label: DAP-AU

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	250.00 ft
Manning's n	0.011
Slope	0.004 ft/ft
2 Year 24 Hour Depth	3.5 in
Average Velocity	0.91 ft/s
Segment Time of Concentration	0.077 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	702.00 ft
Is Paved?	True
Slope	0.011 ft/ft
Average Velocity	2.13 ft/s
Segment Time of Concentration	0.091 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.168 hours

POST-DEVELOPMENT - THE HILLS

Subsection: Time of Concentration Calculations
Label: DAP-AV

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	250.00 ft
Manning's n	0.240
Slope	0.013 ft/ft
2 Year 24 Hour Depth	3.5 in
Average Velocity	0.12 ft/s
Segment Time of Concentration	0.562 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	1,695.00 ft
Is Paved?	False
Slope	0.007 ft/ft
Average Velocity	1.35 ft/s
Segment Time of Concentration	0.349 hours

Segment #3: TR-55 Shallow Concentrated Flow	
Hydraulic Length	605.00 ft
Is Paved?	False
Slope	0.013 ft/ft
Average Velocity	1.84 ft/s
Segment Time of Concentration	0.091 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	1.002 hours

POST-DEVELOPMENT - THE HILLS

Subsection: Time of Concentration Calculations
Label: DAP-AW

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	250.00 ft
Manning's n	0.240
Slope	0.056 ft/ft
2 Year 24 Hour Depth	3.5 in
Average Velocity	0.22 ft/s
Segment Time of Concentration	0.314 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.314 hours

POST-DEVELOPMENT - THE HILLS

Subsection: Time of Concentration Calculations
Label: DAP-AX

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	250.00 ft
Manning's n	0.240
Slope	0.016 ft/ft
2 Year 24 Hour Depth	3.5 in
Average Velocity	0.13 ft/s
Segment Time of Concentration	0.518 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	338.00 ft
Is Paved?	False
Slope	0.011 ft/ft
Average Velocity	1.69 ft/s
Segment Time of Concentration	0.055 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.573 hours

POST-DEVELOPMENT - THE HILLS

Subsection: Time of Concentration Calculations
Label: DAP-B

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow		
Hydraulic Length	250.00	ft
Manning's n	0.400	
Slope	0.020	ft/ft
2 Year 24 Hour Depth	3.5	in
Average Velocity	0.10	ft/s
Segment Time of Concentration	0.712	hours

Segment #2: TR-55 Shallow Concentrated Flow		
Hydraulic Length	1,392.00	ft
Is Paved?	False	
Slope	0.032	ft/ft
Average Velocity	2.89	ft/s
Segment Time of Concentration	0.134	hours

Segment #3: TR-55 Shallow Concentrated Flow		
Hydraulic Length	356.00	ft
Is Paved?	False	
Slope	0.042	ft/ft
Average Velocity	3.31	ft/s
Segment Time of Concentration	0.030	hours

Segment #4: TR-55 Shallow Concentrated Flow		
Hydraulic Length	3,023.00	ft
Is Paved?	False	
Slope	0.015	ft/ft
Average Velocity	1.98	ft/s
Segment Time of Concentration	0.425	hours

Segment #5: TR-55 Shallow Concentrated Flow		
Hydraulic Length	908.00	ft
Is Paved?	False	
Slope	0.011	ft/ft
Average Velocity	1.69	ft/s
Segment Time of Concentration	0.149	hours

Time of Concentration (Composite)

Subsection: Time of Concentration Calculations
Label: DAP-B

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration (Composite)	
Time of Concentration (Composite)	1.450 hours

POST-DEVELOPMENT - THE HILLS

Subsection: Time of Concentration Calculations
Label: DAP-C

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	250.00 ft
Manning's n	0.400
Slope	0.044 ft/ft
2 Year 24 Hour Depth	3.5 in
Average Velocity	0.13 ft/s
Segment Time of Concentration	0.520 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	1,876.00 ft
Is Paved?	False
Slope	0.033 ft/ft
Average Velocity	2.91 ft/s
Segment Time of Concentration	0.179 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.699 hours

POST-DEVELOPMENT - THE HILLS

Subsection: Time of Concentration Calculations
Label: DAP-D

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	250.00 ft
Manning's n	0.400
Slope	0.096 ft/ft
2 Year 24 Hour Depth	3.5 in
Average Velocity	0.18 ft/s
Segment Time of Concentration	0.380 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	1,331.00 ft
Is Paved?	False
Slope	0.039 ft/ft
Average Velocity	3.19 ft/s
Segment Time of Concentration	0.116 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.496 hours

POST-DEVELOPMENT - THE HILLS

Subsection: Time of Concentration Calculations
Label: DAP-E

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	250.00 ft
Manning's n	0.400
Slope	0.100 ft/ft
2 Year 24 Hour Depth	3.5 in
Average Velocity	0.19 ft/s
Segment Time of Concentration	0.374 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	406.00 ft
Is Paved?	False
Slope	0.056 ft/ft
Average Velocity	3.82 ft/s
Segment Time of Concentration	0.030 hours

Segment #3: TR-55 Shallow Concentrated Flow	
Hydraulic Length	451.00 ft
Is Paved?	False
Slope	0.062 ft/ft
Average Velocity	4.02 ft/s
Segment Time of Concentration	0.031 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.435 hours

POST-DEVELOPMENT - THE HILLS

Subsection: Time of Concentration Calculations
Label: DAP-F

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	250.00 ft
Manning's n	0.400
Slope	0.040 ft/ft
2 Year 24 Hour Depth	3.5 in
Average Velocity	0.13 ft/s
Segment Time of Concentration	0.540 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	302.00 ft
Is Paved?	False
Slope	0.099 ft/ft
Average Velocity	5.08 ft/s
Segment Time of Concentration	0.017 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.556 hours

Subsection: Time of Concentration Calculations
Label: DAP-G

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	250.00 ft
Manning's n	0.400
Slope	0.048 ft/ft
2 Year 24 Hour Depth	3.5 in
Average Velocity	0.14 ft/s
Segment Time of Concentration	0.502 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	61.00 ft
Is Paved?	False
Slope	0.065 ft/ft
Average Velocity	4.11 ft/s
Segment Time of Concentration	0.004 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.506 hours

POST-DEVELOPMENT - THE HILLS

Subsection: Time of Concentration Calculations
Label: DAP-H

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	105.00 ft
Manning's n	0.400
Slope	0.019 ft/ft
2 Year 24 Hour Depth	3.5 in
Average Velocity	0.08 ft/s
Segment Time of Concentration	0.363 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	185.00 ft
Is Paved?	False
Slope	0.059 ft/ft
Average Velocity	3.92 ft/s
Segment Time of Concentration	0.013 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.376 hours

POST-DEVELOPMENT - THE HILLS

Subsection: Time of Concentration Calculations
Label: DAP-I

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	250.00 ft
Manning's n	0.400
Slope	0.036 ft/ft
2 Year 24 Hour Depth	3.5 in
Average Velocity	0.12 ft/s
Segment Time of Concentration	0.563 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	605.00 ft
Is Paved?	False
Slope	0.029 ft/ft
Average Velocity	2.75 ft/s
Segment Time of Concentration	0.061 hours

Segment #3: TR-55 Shallow Concentrated Flow	
Hydraulic Length	444.00 ft
Is Paved?	False
Slope	0.065 ft/ft
Average Velocity	4.11 ft/s
Segment Time of Concentration	0.030 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.654 hours

POST-DEVELOPMENT - THE HILLS

Subsection: Time of Concentration Calculations
Label: DAP-J

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	250.00 ft
Manning's n	0.400
Slope	0.036 ft/ft
2 Year 24 Hour Depth	3.5 in
Average Velocity	0.12 ft/s
Segment Time of Concentration	0.563 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	121.00 ft
Is Paved?	False
Slope	0.091 ft/ft
Average Velocity	4.87 ft/s
Segment Time of Concentration	0.007 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.570 hours

POST-DEVELOPMENT - THE HILLS

Subsection: Time of Concentration Calculations
Label: DAP-K

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	250.00 ft
Manning's n	0.400
Slope	0.048 ft/ft
2 Year 24 Hour Depth	3.5 in
Average Velocity	0.14 ft/s
Segment Time of Concentration	0.502 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	70.00 ft
Is Paved?	False
Slope	0.057 ft/ft
Average Velocity	3.85 ft/s
Segment Time of Concentration	0.005 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.507 hours

POST-DEVELOPMENT - THE HILLS

Subsection: Time of Concentration Calculations
Label: DAP-L

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	250.00 ft
Manning's n	0.400
Slope	0.056 ft/ft
2 Year 24 Hour Depth	3.5 in
Average Velocity	0.15 ft/s
Segment Time of Concentration	0.472 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	232.00 ft
Is Paved?	False
Slope	0.069 ft/ft
Average Velocity	4.24 ft/s
Segment Time of Concentration	0.015 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.487 hours

POST-DEVELOPMENT - THE HILLS

Subsection: Time of Concentration Calculations
Label: DAP-M

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	250.00 ft
Manning's n	0.400
Slope	0.030 ft/ft
2 Year 24 Hour Depth	3.5 in
Average Velocity	0.11 ft/s
Segment Time of Concentration	0.606 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	290.00 ft
Is Paved?	False
Slope	0.062 ft/ft
Average Velocity	4.02 ft/s
Segment Time of Concentration	0.020 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.626 hours

POST-DEVELOPMENT - THE HILLS

Subsection: Time of Concentration Calculations
Label: DAP-N

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	250.00 ft
Manning's n	0.400
Slope	0.132 ft/ft
2 Year 24 Hour Depth	3.5 in
Average Velocity	0.21 ft/s
Segment Time of Concentration	0.335 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	158.00 ft
Is Paved?	False
Slope	0.111 ft/ft
Average Velocity	5.38 ft/s
Segment Time of Concentration	0.008 hours

Segment #3: TR-55 Shallow Concentrated Flow	
Hydraulic Length	987.00 ft
Is Paved?	False
Slope	0.039 ft/ft
Average Velocity	3.19 ft/s
Segment Time of Concentration	0.086 hours

Segment #4: TR-55 Shallow Concentrated Flow	
Hydraulic Length	177.00 ft
Is Paved?	False
Slope	0.084 ft/ft
Average Velocity	4.68 ft/s
Segment Time of Concentration	0.011 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.440 hours

POST-DEVELOPMENT - THE HILLS

Subsection: Time of Concentration Calculations
Label: DAP-O

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	250.00 ft
Manning's n	0.400
Slope	0.100 ft/ft
2 Year 24 Hour Depth	3.5 in
Average Velocity	0.19 ft/s
Segment Time of Concentration	0.374 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	220.00 ft
Is Paved?	False
Slope	0.077 ft/ft
Average Velocity	4.48 ft/s
Segment Time of Concentration	0.014 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.388 hours

POST-DEVELOPMENT - THE HILLS

Subsection: Time of Concentration Calculations
Label: DAP-P

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	250.00 ft
Manning's n	0.400
Slope	0.056 ft/ft
2 Year 24 Hour Depth	3.5 in
Average Velocity	0.15 ft/s
Segment Time of Concentration	0.472 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	474.00 ft
Is Paved?	False
Slope	0.076 ft/ft
Average Velocity	4.45 ft/s
Segment Time of Concentration	0.030 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.501 hours

POST-DEVELOPMENT - THE HILLS

Subsection: Time of Concentration Calculations
Label: DAP-R

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	250.00 ft
Manning's n	0.240
Slope	0.052 ft/ft
2 Year 24 Hour Depth	3.5 in
Average Velocity	0.22 ft/s
Segment Time of Concentration	0.323 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	80.00 ft
Is Paved?	False
Slope	0.112 ft/ft
Average Velocity	5.40 ft/s
Segment Time of Concentration	0.004 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.327 hours

Subsection: Time of Concentration Calculations
Label: DAP-S

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	250.00 ft
Manning's n	0.400
Slope	0.052 ft/ft
2 Year 24 Hour Depth	3.5 in
Average Velocity	0.14 ft/s
Segment Time of Concentration	0.486 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	361.00 ft
Is Paved?	False
Slope	0.111 ft/ft
Average Velocity	5.38 ft/s
Segment Time of Concentration	0.019 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.505 hours

POST-DEVELOPMENT - THE HILLS

Subsection: Time of Concentration Calculations
Label: DAP-T

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.240
Slope	0.120 ft/ft
2 Year 24 Hour Depth	3.5 in
Average Velocity	0.25 ft/s
Segment Time of Concentration	0.111 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.111 hours

POST-DEVELOPMENT - THE HILLS

Subsection: Time of Concentration Calculations
Label: DAP-U

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	157.00 ft
Manning's n	0.400
Slope	0.165 ft/ft
2 Year 24 Hour Depth	3.5 in
Average Velocity	0.21 ft/s
Segment Time of Concentration	0.211 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	107.00 ft
Is Paved?	False
Slope	0.149 ft/ft
Average Velocity	6.23 ft/s
Segment Time of Concentration	0.005 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.216 hours

POST-DEVELOPMENT - THE HILLS

Subsection: Time of Concentration Calculations
Label: DAP-V

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	250.00 ft
Manning's n	0.400
Slope	0.052 ft/ft
2 Year 24 Hour Depth	3.5 in
Average Velocity	0.14 ft/s
Segment Time of Concentration	0.486 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	312.00 ft
Is Paved?	False
Slope	0.038 ft/ft
Average Velocity	3.15 ft/s
Segment Time of Concentration	0.028 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.514 hours

POST-DEVELOPMENT - THE HILLS

Subsection: Time of Concentration Calculations
Label: DAP-W

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	250.00 ft
Manning's n	0.240
Slope	0.080 ft/ft
2 Year 24 Hour Depth	3.5 in
Average Velocity	0.26 ft/s
Segment Time of Concentration	0.272 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	471.00 ft
Is Paved?	False
Slope	0.106 ft/ft
Average Velocity	5.25 ft/s
Segment Time of Concentration	0.025 hours

Segment #3: TR-55 Shallow Concentrated Flow	
Hydraulic Length	1,118.00 ft
Is Paved?	False
Slope	0.023 ft/ft
Average Velocity	2.45 ft/s
Segment Time of Concentration	0.127 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.424 hours

POST-DEVELOPMENT - THE HILLS

Subsection: Time of Concentration Calculations
Label: DAP-X

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	250.00 ft
Manning's n	0.400
Slope	0.076 ft/ft
2 Year 24 Hour Depth	3.5 in
Average Velocity	0.17 ft/s
Segment Time of Concentration	0.418 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	781.00 ft
Is Paved?	False
Slope	0.060 ft/ft
Average Velocity	3.95 ft/s
Segment Time of Concentration	0.055 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.472 hours

POST-DEVELOPMENT - THE HILLS

Subsection: Time of Concentration Calculations
Label: DAP-Y

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	240.00 ft
Manning's n	0.400
Slope	0.104 ft/ft
2 Year 24 Hour Depth	3.5 in
Average Velocity	0.19 ft/s
Segment Time of Concentration	0.357 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	1,713.00 ft
Is Paved?	False
Slope	0.021 ft/ft
Average Velocity	2.34 ft/s
Segment Time of Concentration	0.204 hours

Segment #3: TR-55 Shallow Concentrated Flow	
Hydraulic Length	339.00 ft
Is Paved?	False
Slope	0.032 ft/ft
Average Velocity	2.89 ft/s
Segment Time of Concentration	0.033 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.593 hours

POST-DEVELOPMENT - THE HILLS

Subsection: Time of Concentration Calculations
Label: DAP-Z

Return Event: 100 years
Storm Event: 100 YEAR

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	250.00 ft
Manning's n	0.240
Slope	0.072 ft/ft
2 Year 24 Hour Depth	3.5 in
Average Velocity	0.24 ft/s
Segment Time of Concentration	0.284 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	558.00 ft
Is Paved?	False
Slope	0.057 ft/ft
Average Velocity	3.85 ft/s
Segment Time of Concentration	0.040 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.324 hours

CN Data

POST-DEVELOPMENT - THE HILLS

Subsection: Runoff CN-Area
Label: DAP-A

Return Event: 100 years
Storm Event: 100 YEAR

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious Areas - Paved parking lots, roofs, driveways, Streets and roads - Soil A	98.000	5.060	0.0	0.0	98.000
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil A	39.000	24.810	0.0	0.0	39.000
Woods - good - Soil A	30.000	2.390	0.0	0.0	30.000
Impervious Areas - Dirt (w/ right-of-way) - Soil A	72.000	3.270	0.0	0.0	72.000
Row crops - Straight row (SR), good - Soil A	67.000	76.050	0.0	0.0	67.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	111.580	(N/A)	(N/A)	61.534

POST-DEVELOPMENT - THE HILLS

Subsection: Runoff CN-Area
Label: DAP-AA

Return Event: 100 years
Storm Event: 100 YEAR

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil A	39.000	0.910	0.0	0.0	39.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.910	(N/A)	(N/A)	39.000

POST-DEVELOPMENT - THE HILLS

Subsection: Runoff CN-Area
Label: DAP-AB

Return Event: 100 years
Storm Event: 100 YEAR

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil A	39.000	0.620	0.0	0.0	39.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.620	(N/A)	(N/A)	39.000

POST-DEVELOPMENT - THE HILLS

Subsection: Runoff CN-Area
Label: DAP-AC

Return Event: 100 years
Storm Event: 100 YEAR

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil A	39.000	3.850	0.0	0.0	39.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	3.850	(N/A)	(N/A)	39.000

POST-DEVELOPMENT - THE HILLS

Subsection: Runoff CN-Area
Label: DAP-AD

Return Event: 100 years
Storm Event: 100 YEAR

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil A	39.000	1.220	0.0	0.0	39.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	1.220	(N/A)	(N/A)	39.000

POST-DEVELOPMENT - THE HILLS

Subsection: Runoff CN-Area
Label: DAP-AE

Return Event: 100 years
Storm Event: 100 YEAR

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil A	39.000	0.770	0.0	0.0	39.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.770	(N/A)	(N/A)	39.000

POST-DEVELOPMENT - THE HILLS

Subsection: Runoff CN-Area
Label: DAP-AF

Return Event: 100 years
Storm Event: 100 YEAR

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious Areas - Paved parking lots, roofs, driveways, Streets and roads - Soil A	98.000	0.710	0.0	0.0	98.000
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil A	39.000	2.720	0.0	0.0	39.000
Woods - good - Soil A	30.000	0.780	0.0	0.0	30.000
Residential Districts - 1/4 acre - Soil A	61.000	5.280	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	9.490	(N/A)	(N/A)	54.915

POST-DEVELOPMENT - THE HILLS

Subsection: Runoff CN-Area
Label: DAP-AG

Return Event: 100 years
Storm Event: 100 YEAR

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil A	39.000	0.580	0.0	0.0	39.000
Woods - good - Soil A	30.000	0.860	0.0	0.0	30.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	1.440	(N/A)	(N/A)	33.625

POST-DEVELOPMENT - THE HILLS

Subsection: Runoff CN-Area
Label: DAP-AH

Return Event: 100 years
Storm Event: 100 YEAR

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil A	39.000	2.490	0.0	0.0	39.000
Woods - good - Soil A	30.000	2.850	0.0	0.0	30.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	5.340	(N/A)	(N/A)	34.197

POST-DEVELOPMENT - THE HILLS

Subsection: Runoff CN-Area
Label: DAP-AI

Return Event: 100 years
Storm Event: 100 YEAR

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious Areas - Paved parking lots, roofs, driveways, Streets and roads - Soil A	98.000	2.820	0.0	0.0	98.000
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil A	39.000	0.520	0.0	0.0	39.000
Woods - good - Soil A	30.000	18.210	0.0	0.0	30.000
Sand	20.000	4.980	0.0	0.0	20.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	26.530	(N/A)	(N/A)	35.527

POST-DEVELOPMENT - THE HILLS

Subsection: Runoff CN-Area
Label: DAP-AJ

Return Event: 100 years
Storm Event: 100 YEAR

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious Areas - Paved parking lots, roofs, driveways, Streets and roads - Soil A	98.000	0.670	0.0	0.0	98.000
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil A	39.000	0.290	0.0	0.0	39.000
Woods - good - Soil A	30.000	17.720	0.0	0.0	30.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	18.680	(N/A)	(N/A)	32.579

POST-DEVELOPMENT - THE HILLS

Subsection: Runoff CN-Area
Label: DAP-AK

Return Event: 100 years
Storm Event: 100 YEAR

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious Areas - Paved parking lots, roofs, driveways, Streets and roads - Soil A	98.000	1.080	0.0	0.0	98.000
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil A	39.000	0.480	0.0	0.0	39.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	1.560	(N/A)	(N/A)	79.846

POST-DEVELOPMENT - THE HILLS

Subsection: Runoff CN-Area
Label: DAP-AL

Return Event: 100 years
Storm Event: 100 YEAR

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil A	39.000	4.730	0.0	0.0	39.000
Woods - good - Soil A	30.000	5.800	0.0	0.0	30.000
Sand	20.000	0.730	0.0	0.0	20.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	11.260	(N/A)	(N/A)	33.132

POST-DEVELOPMENT - THE HILLS

Subsection: Runoff CN-Area
Label: DAP-AM

Return Event: 100 years
Storm Event: 100 YEAR

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Woods - good - Soil A	30.000	1.440	0.0	0.0	30.000
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil A	39.000	1.080	0.0	0.0	39.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	2.520	(N/A)	(N/A)	33.857

POST-DEVELOPMENT - THE HILLS

Subsection: Runoff CN-Area
Label: DAP-AO

Return Event: 100 years
Storm Event: 100 YEAR

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil A	39.000	3.340	0.0	0.0	39.000
Woods - good - Soil A	30.000	3.840	0.0	0.0	30.000
Residential Districts - 1/4 acre - Soil A	61.000	0.260	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	7.440	(N/A)	(N/A)	35.124

POST-DEVELOPMENT - THE HILLS

Subsection: Runoff CN-Area
Label: DAP-AP

Return Event: 100 years
Storm Event: 100 YEAR

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil A	39.000	1.090	0.0	0.0	39.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	1.090	(N/A)	(N/A)	39.000

POST-DEVELOPMENT - THE HILLS

Subsection: Runoff CN-Area
Label: DAP-AQ

Return Event: 100 years
Storm Event: 100 YEAR

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil A	39.000	3.010	0.0	0.0	39.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	3.010	(N/A)	(N/A)	39.000

POST-DEVELOPMENT - THE HILLS

Subsection: Runoff CN-Area
Label: DAP-AR

Return Event: 100 years
Storm Event: 100 YEAR

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil A	39.000	2.180	0.0	0.0	39.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	2.180	(N/A)	(N/A)	39.000

POST-DEVELOPMENT - THE HILLS

Subsection: Runoff CN-Area
Label: DAP-AS

Return Event: 100 years
Storm Event: 100 YEAR

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil A	39.000	2.950	0.0	0.0	39.000
Woods - good - Soil A	30.000	4.670	0.0	0.0	30.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	7.620	(N/A)	(N/A)	33.484

POST-DEVELOPMENT - THE HILLS

Subsection: Runoff CN-Area
Label: DAP-AT

Return Event: 100 years
Storm Event: 100 YEAR

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil A	39.000	0.620	0.0	0.0	39.000
Woods - good - Soil A	30.000	0.090	0.0	0.0	30.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.710	(N/A)	(N/A)	37.859

POST-DEVELOPMENT - THE HILLS

Subsection: Runoff CN-Area
Label: DAP-AU

Return Event: 100 years
Storm Event: 100 YEAR

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious Areas - Paved parking lots, roofs, driveways, Streets and roads - Soil A	98.000	0.940	0.0	0.0	98.000
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil A	39.000	0.110	0.0	0.0	39.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	1.050	(N/A)	(N/A)	91.819

POST-DEVELOPMENT - THE HILLS

Subsection: Runoff CN-Area
Label: DAP-AV

Return Event: 100 years
Storm Event: 100 YEAR

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious Areas - Paved parking lots, roofs, driveways, Streets and roads - Soil A	98.000	6.380	0.0	0.0	98.000
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil A	39.000	26.800	0.0	0.0	39.000
Woods - good - Soil A	30.000	42.680	0.0	0.0	30.000
Impervious Areas - Dirt (w/ right-of-way) - Soil A	72.000	0.680	0.0	0.0	72.000
Row crops - Straight row (SR), good - Soil A	67.000	10.320	0.0	0.0	67.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	86.860	(N/A)	(N/A)	42.496

POST-DEVELOPMENT - THE HILLS

Subsection: Runoff CN-Area
Label: DAP-AW

Return Event: 100 years
Storm Event: 100 YEAR

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil A	39.000	1.430	0.0	0.0	39.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	1.430	(N/A)	(N/A)	39.000

POST-DEVELOPMENT - THE HILLS

Subsection: Runoff CN-Area
Label: DAP-AX

Return Event: 100 years
Storm Event: 100 YEAR

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious Areas - Paved parking lots, roofs, driveways, Streets and roads - Soil A	98.000	1.980	0.0	0.0	98.000
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil A	39.000	0.230	0.0	0.0	39.000
Woods - good - Soil A	30.000	1.600	0.0	0.0	30.000
Sand	20.000	1.470	0.0	0.0	20.000
Residential Districts - 1/4 acre - Soil A	61.000	0.560	0.0	0.0	61.000
Residential Districts - 2 acre - Soil A	46.000	13.510	0.0	0.0	46.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	19.350	(N/A)	(N/A)	48.374

POST-DEVELOPMENT - THE HILLS

Subsection: Runoff CN-Area
Label: DAP-B

Return Event: 100 years
Storm Event: 100 YEAR

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious Areas - Paved parking lots, roofs, driveways, Streets and roads - Soil A	98.000	1.480	0.0	0.0	98.000
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil A	39.000	1.650	0.0	0.0	39.000
Woods - good - Soil A	30.000	67.580	0.0	0.0	30.000
Sand	20.000	21.460	0.0	0.0	20.000
Impervious Areas - Dirt (w/ right-of-way) - Soil A	72.000	1.700	0.0	0.0	72.000
Row crops - Straight row (SR), good - Soil A	67.000	81.660	0.0	0.0	67.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	175.530	(N/A)	(N/A)	47.055

POST-DEVELOPMENT - THE HILLS

Subsection: Runoff CN-Area
Label: DAP-C

Return Event: 100 years
Storm Event: 100 YEAR

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Woods - good - Soil A	30.000	17.630	0.0	0.0	30.000
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil A	39.000	0.330	0.0	0.0	39.000
Sand	20.000	0.440	0.0	0.0	20.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	18.400	(N/A)	(N/A)	29.922

Subsection: Runoff CN-Area
Label: DAP-D

Return Event: 100 years
Storm Event: 100 YEAR

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious Areas - Paved parking lots, roofs, driveways, Streets and roads - Soil A	98.000	0.080	0.0	0.0	98.000
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil A	39.000	4.280	0.0	0.0	39.000
Woods - good - Soil A	30.000	4.810	0.0	0.0	30.000
Sand	20.000	0.800	0.0	0.0	20.000
Residential Districts - 2 acre - Soil A	46.000	11.540	0.0	0.0	46.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	21.510	(N/A)	(N/A)	40.256

POST-DEVELOPMENT - THE HILLS

Subsection: Runoff CN-Area
Label: DAP-E

Return Event: 100 years
Storm Event: 100 YEAR

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil A	39.000	2.300	0.0	0.0	39.000
Woods - good - Soil A	30.000	0.120	0.0	0.0	30.000
Sand	20.000	0.310	0.0	0.0	20.000
Residential Districts - 2 acre - Soil A	46.000	3.900	0.0	0.0	46.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	6.630	(N/A)	(N/A)	42.066

POST-DEVELOPMENT - THE HILLS

Subsection: Runoff CN-Area
Label: DAP-F

Return Event: 100 years
Storm Event: 100 YEAR

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil A	39.000	5.460	0.0	0.0	39.000
Woods - good - Soil A	30.000	5.820	0.0	0.0	30.000
Sand	20.000	0.680	0.0	0.0	20.000
Residential Districts - 2 acre - Soil A	46.000	1.850	0.0	0.0	46.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	13.810	(N/A)	(N/A)	35.209

POST-DEVELOPMENT - THE HILLS

Subsection: Runoff CN-Area
Label: DAP-G

Return Event: 100 years
Storm Event: 100 YEAR

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Woods - good - Soil A	30.000	1.780	0.0	0.0	30.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	1.780	(N/A)	(N/A)	30.000

POST-DEVELOPMENT - THE HILLS

Subsection: Runoff CN-Area
Label: DAP-H

Return Event: 100 years
Storm Event: 100 YEAR

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil A	39.000	0.610	0.0	0.0	39.000
Sand	20.000	0.300	0.0	0.0	20.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.910	(N/A)	(N/A)	32.736

POST-DEVELOPMENT - THE HILLS

Subsection: Runoff CN-Area
Label: DAP-I

Return Event: 100 years
Storm Event: 100 YEAR

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil A	39.000	3.930	0.0	0.0	39.000
Woods - good - Soil A	30.000	8.580	0.0	0.0	30.000
Sand	20.000	1.130	0.0	0.0	20.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	13.640	(N/A)	(N/A)	31.765

POST-DEVELOPMENT - THE HILLS

Subsection: Runoff CN-Area
Label: DAP-J

Return Event: 100 years
Storm Event: 100 YEAR

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Woods - good - Soil A	30.000	2.680	0.0	0.0	30.000
Sand	20.000	0.850	0.0	0.0	20.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	3.530	(N/A)	(N/A)	27.592

POST-DEVELOPMENT - THE HILLS

Subsection: Runoff CN-Area
Label: DAP-K

Return Event: 100 years
Storm Event: 100 YEAR

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Woods - good - Soil A	30.000	3.210	0.0	0.0	30.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	3.210	(N/A)	(N/A)	30.000

POST-DEVELOPMENT - THE HILLS

Subsection: Runoff CN-Area
Label: DAP-L

Return Event: 100 years
Storm Event: 100 YEAR

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Woods - good - Soil A	30.000	4.600	0.0	0.0	30.000
Sand	20.000	0.260	0.0	0.0	20.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	4.860	(N/A)	(N/A)	29.465

POST-DEVELOPMENT - THE HILLS

Subsection: Runoff CN-Area
Label: DAP-M

Return Event: 100 years
Storm Event: 100 YEAR

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Woods - good - Soil A	30.000	6.360	0.0	0.0	30.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	6.360	(N/A)	(N/A)	30.000

POST-DEVELOPMENT - THE HILLS

Subsection: Runoff CN-Area
Label: DAP-N

Return Event: 100 years
Storm Event: 100 YEAR

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Woods - good - Soil A	30.000	52.220	0.0	0.0	30.000
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil A	39.000	6.800	0.0	0.0	39.000
Sand	20.000	1.040	0.0	0.0	20.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	60.060	(N/A)	(N/A)	30.846

Subsection: Runoff CN-Area
Label: DAP-O

Return Event: 100 years
Storm Event: 100 YEAR

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Woods - good - Soil A	30.000	3.330	0.0	0.0	30.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	3.330	(N/A)	(N/A)	30.000

POST-DEVELOPMENT - THE HILLS

Subsection: Runoff CN-Area
Label: DAP-P

Return Event: 100 years
Storm Event: 100 YEAR

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil A	39.000	1.130	0.0	0.0	39.000
Woods - good - Soil A	30.000	9.370	0.0	0.0	30.000
Sand	20.000	0.480	0.0	0.0	20.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	10.980	(N/A)	(N/A)	30.489

POST-DEVELOPMENT - THE HILLS

Subsection: Runoff CN-Area
Label: DAP-R

Return Event: 100 years
Storm Event: 100 YEAR

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil A	39.000	1.650	0.0	0.0	39.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	1.650	(N/A)	(N/A)	39.000

POST-DEVELOPMENT - THE HILLS

Subsection: Runoff CN-Area
Label: DAP-S

Return Event: 100 years
Storm Event: 100 YEAR

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil A	39.000	2.340	0.0	0.0	39.000
Woods - good - Soil A	30.000	2.280	0.0	0.0	30.000
Sand	20.000	0.610	0.0	0.0	20.000
Residential Districts - 2 acre - Soil A	46.000	3.540	0.0	0.0	46.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	8.770	(N/A)	(N/A)	38.164

POST-DEVELOPMENT - THE HILLS

Subsection: Runoff CN-Area
Label: DAP-T

Return Event: 100 years
Storm Event: 100 YEAR

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Woods - good - Soil A	30.000	0.480	0.0	0.0	30.000
Residential Districts - 2 acre - Soil A	46.000	1.740	0.0	0.0	46.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	2.220	(N/A)	(N/A)	42.541

POST-DEVELOPMENT - THE HILLS

Subsection: Runoff CN-Area
Label: DAP-U

Return Event: 100 years
Storm Event: 100 YEAR

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil A	39.000	1.210	0.0	0.0	39.000
Woods - good - Soil A	30.000	0.560	0.0	0.0	30.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	1.770	(N/A)	(N/A)	36.153

POST-DEVELOPMENT - THE HILLS

Subsection: Runoff CN-Area
Label: DAP-V

Return Event: 100 years
Storm Event: 100 YEAR

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil A	39.000	4.080	0.0	0.0	39.000
Woods - good - Soil A	30.000	2.130	0.0	0.0	30.000
Sand	20.000	1.660	0.0	0.0	20.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	7.870	(N/A)	(N/A)	32.557

POST-DEVELOPMENT - THE HILLS

Subsection: Runoff CN-Area
Label: DAP-W

Return Event: 100 years
Storm Event: 100 YEAR

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious Areas - Paved parking lots, roofs, driveways, Streets and roads - Soil A	98.000	3.510	0.0	0.0	98.000
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil A	39.000	9.490	0.0	0.0	39.000
Woods - good - Soil A	30.000	4.290	0.0	0.0	30.000
Residential Districts - 1/4 acre - Soil A	61.000	7.660	0.0	0.0	61.000
Residential Districts - 2 acre - Soil A	46.000	5.010	0.0	0.0	46.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	29.960	(N/A)	(N/A)	51.419

POST-DEVELOPMENT - THE HILLS

Subsection: Runoff CN-Area
Label: DAP-X

Return Event: 100 years
Storm Event: 100 YEAR

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious Areas - Paved parking lots, roofs, driveways, Streets and roads - Soil A	98.000	1.320	0.0	0.0	98.000
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil A	39.000	4.780	0.0	0.0	39.000
Woods - good - Soil A	30.000	3.390	0.0	0.0	30.000
Sand	20.000	2.420	0.0	0.0	20.000
Residential Districts - 1/4 acre - Soil A	61.000	0.830	0.0	0.0	61.000
Residential Districts - 2 acre - Soil A	46.000	1.610	0.0	0.0	46.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	14.350	(N/A)	(N/A)	41.155

POST-DEVELOPMENT - THE HILLS

Subsection: Runoff CN-Area
Label: DAP-Y

Return Event: 100 years
Storm Event: 100 YEAR

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious Areas - Paved parking lots, roofs, driveways, Streets and roads - Soil A	98.000	5.510	0.0	0.0	98.000
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil A	39.000	7.130	0.0	0.0	39.000
Woods - good - Soil A	30.000	9.980	0.0	0.0	30.000
Sand	20.000	4.080	0.0	0.0	20.000
Residential Districts - 1/4 acre - Soil A	61.000	7.360	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	34.060	(N/A)	(N/A)	48.385

POST-DEVELOPMENT - THE HILLS

Subsection: Runoff CN-Area
Label: DAP-Z

Return Event: 100 years
Storm Event: 100 YEAR

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil A	39.000	5.500	0.0	0.0	39.000
Woods - good - Soil A	30.000	1.730	0.0	0.0	30.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	7.230	(N/A)	(N/A)	36.846

Storage Data

POST-DEVELOPMENT - THE HILLS

Subsection: Elevation-Area Volume Curve
Label: DRA AX

Return Event: 100 years
Storm Event: 100 YEAR

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ac-ft)	Volume (Total) (ac-ft)
-115.00	0.0	0.009	0.000	0.000	0.000
0.00	0.0	0.009	0.028	1.058	1.058
0.50	0.0	0.009	0.028	0.005	1.063

POST-DEVELOPMENT - THE HILLS

Subsection: Elevation-Area Volume Curve
Label: DRA PAA

Return Event: 100 years
Storm Event: 100 YEAR

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ac-ft)	Volume (Total) (ac-ft)
-2.00	0.0	0.070	0.000	0.000	0.000
0.00	0.0	0.070	0.210	0.140	0.140
0.50	0.0	0.070	0.210	0.035	0.175

Subsection: Elevation-Area Volume Curve
Label: DRA PAB

Return Event: 100 years
Storm Event: 100 YEAR

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ac-ft)	Volume (Total) (ac-ft)
-2.00	0.0	0.140	0.000	0.000	0.000
0.00	0.0	0.140	0.420	0.280	0.280
0.50	0.0	0.140	0.420	0.070	0.350

POST-DEVELOPMENT - THE HILLS

Subsection: Elevation-Area Volume Curve
Label: DRA PAC

Return Event: 100 years
Storm Event: 100 YEAR

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ac-ft)	Volume (Total) (ac-ft)
-2.00	0.0	0.445	0.000	0.000	0.000
0.00	0.0	0.445	1.335	0.890	0.890
0.50	0.0	0.445	1.335	0.222	1.113

POST-DEVELOPMENT - THE HILLS

Subsection: Elevation-Area Volume Curve
Label: DRA PAD

Return Event: 100 years
Storm Event: 100 YEAR

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ac-ft)	Volume (Total) (ac-ft)
-2.00	0.0	0.185	0.000	0.000	0.000
0.00	0.0	0.185	0.555	0.370	0.370
0.50	0.0	0.185	0.555	0.092	0.463

POST-DEVELOPMENT - THE HILLS

Subsection: Elevation-Area Volume Curve
Label: DRA PAE

Return Event: 100 years
Storm Event: 100 YEAR

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ac-ft)	Volume (Total) (ac-ft)
-3.00	0.0	0.150	0.000	0.000	0.000
0.00	0.0	0.150	0.450	0.450	0.450
0.50	0.0	0.150	0.450	0.075	0.525

POST-DEVELOPMENT - THE HILLS

Subsection: Elevation-Area Volume Curve
Label: DRA PAF

Return Event: 100 years
Storm Event: 100 YEAR

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ac-ft)	Volume (Total) (ac-ft)
-3.00	0.0	0.557	0.000	0.000	0.000
0.00	0.0	0.557	1.671	1.671	1.671
0.50	0.0	0.557	1.671	0.278	1.949

POST-DEVELOPMENT - THE HILLS

Subsection: Elevation-Area Volume Curve
Label: DRA PAG

Return Event: 100 years
Storm Event: 100 YEAR

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ac-ft)	Volume (Total) (ac-ft)
-1.00	0.0	0.070	0.000	0.000	0.000
0.00	0.0	0.070	0.210	0.070	0.070
0.50	0.0	0.070	0.210	0.035	0.105

POST-DEVELOPMENT - THE HILLS

Subsection: Elevation-Area Volume Curve
Label: DRA PAH

Return Event: 100 years
Storm Event: 100 YEAR

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ac-ft)	Volume (Total) (ac-ft)
-3.00	0.0	0.443	0.000	0.000	0.000
0.00	0.0	0.443	1.329	1.329	1.329
0.50	0.0	0.443	1.329	0.222	1.551

POST-DEVELOPMENT - THE HILLS

Subsection: Elevation-Area Volume Curve
Label: DRA PAI

Return Event: 100 years
Storm Event: 100 YEAR

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ac-ft)	Volume (Total) (ac-ft)
22.00	0.0	0.010	0.000	0.000	0.000
24.00	0.0	0.030	0.057	0.038	0.038
26.00	0.0	0.140	0.235	0.157	0.195
27.00	0.0	0.280	0.618	0.206	0.401
27.50	0.0	0.290	0.855	0.142	0.543

POST-DEVELOPMENT - THE HILLS

Subsection: Elevation-Area Volume Curve
Label: DRA PAJ

Return Event: 100 years
Storm Event: 100 YEAR

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ac-ft)	Volume (Total) (ac-ft)
34.00	0.0	0.170	0.000	0.000	0.000
36.00	0.0	0.830	1.376	0.917	0.917
36.50	0.0	0.840	2.505	0.417	1.335

POST-DEVELOPMENT - THE HILLS

Subsection: Elevation-Area Volume Curve
Label: DRA PAL

Return Event: 100 years
Storm Event: 100 YEAR

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ac-ft)	Volume (Total) (ac-ft)
21.00	0.0	0.000	0.000	0.000	0.000
22.00	0.0	0.075	0.075	0.025	0.025
24.00	0.0	0.226	0.431	0.287	0.312
26.00	0.0	0.584	1.173	0.782	1.095

POST-DEVELOPMENT - THE HILLS

Subsection: Elevation-Area Volume Curve
Label: DRA PAM

Return Event: 100 years
Storm Event: 100 YEAR

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ac-ft)	Volume (Total) (ac-ft)
-2.00	0.0	0.230	0.000	0.000	0.000
0.00	0.0	0.230	0.690	0.460	0.460
0.50	0.0	0.230	0.690	0.115	0.575

POST-DEVELOPMENT - THE HILLS

Subsection: Elevation-Area Volume Curve
Label: DRA PAO

Return Event: 100 years
Storm Event: 100 YEAR

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ac-ft)	Volume (Total) (ac-ft)
20.00	0.0	0.234	0.000	0.000	0.000
22.00	0.0	0.338	0.853	0.569	0.569
23.00	0.0	0.440	1.164	0.388	0.957

POST-DEVELOPMENT - THE HILLS

Subsection: Elevation-Area Volume Curve
Label: DRA PAP

Return Event: 100 years
Storm Event: 100 YEAR

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ac-ft)	Volume (Total) (ac-ft)
-3.00	0.0	0.187	0.000	0.000	0.000
0.00	0.0	0.187	0.561	0.561	0.561
0.50	0.0	0.187	0.561	0.094	0.654

POST-DEVELOPMENT - THE HILLS

Subsection: Elevation-Area Volume Curve
Label: DRA PAQ

Return Event: 100 years
Storm Event: 100 YEAR

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ac-ft)	Volume (Total) (ac-ft)
-3.00	0.0	0.277	0.000	0.000	0.000
0.00	0.0	0.277	0.831	0.831	0.831
0.50	0.0	0.277	0.831	0.138	0.969

POST-DEVELOPMENT - THE HILLS

Subsection: Elevation-Area Volume Curve
Label: DRA PAR

Return Event: 100 years
Storm Event: 100 YEAR

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ac-ft)	Volume (Total) (ac-ft)
-3.00	0.0	0.567	0.000	0.000	0.000
0.00	0.0	0.567	1.701	1.701	1.701
0.50	0.0	0.567	1.701	0.283	1.985

POST-DEVELOPMENT - THE HILLS

Subsection: Elevation-Area Volume Curve
Label: DRA PAS

Return Event: 100 years
Storm Event: 100 YEAR

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ac-ft)	Volume (Total) (ac-ft)
-3.00	0.0	0.243	0.000	0.000	0.000
0.00	0.0	0.243	0.729	0.729	0.729
1.00	0.0	0.243	0.729	0.243	0.972

POST-DEVELOPMENT - THE HILLS

Subsection: Elevation-Area Volume Curve
Label: DRA PAW

Return Event: 100 years
Storm Event: 100 YEAR

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ac-ft)	Volume (Total) (ac-ft)
17.00	0.0	0.000	0.000	0.000	0.000
18.00	0.0	0.270	0.270	0.090	0.090
20.00	0.0	0.390	0.984	0.656	0.746
21.00	0.0	0.530	1.375	0.458	1.205
21.50	0.0	0.540	1.605	0.267	1.472

POST-DEVELOPMENT - THE HILLS

Subsection: Elevation-Area Volume Curve
Label: DRA PB

Return Event: 100 years
Storm Event: 100 YEAR

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ac-ft)	Volume (Total) (ac-ft)
-3.00	0.0	0.350	0.000	0.000	0.000
0.00	0.0	0.350	1.050	1.050	1.050
0.50	0.0	0.350	1.050	0.175	1.225

POST-DEVELOPMENT - THE HILLS

Subsection: Elevation-Area Volume Curve
Label: DRA PC

Return Event: 100 years
Storm Event: 100 YEAR

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ac-ft)	Volume (Total) (ac-ft)
-2.00	0.0	0.380	0.000	0.000	0.000
0.00	0.0	0.380	1.140	0.760	0.760
0.50	0.0	0.380	1.140	0.190	0.950

POST-DEVELOPMENT - THE HILLS

Subsection: Elevation-Area Volume Curve
Label: DRA PD

Return Event: 100 years
Storm Event: 100 YEAR

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ac-ft)	Volume (Total) (ac-ft)
-3.00	0.0	0.400	0.000	0.000	0.000
0.00	0.0	0.400	1.200	1.200	1.200
0.50	0.0	0.400	1.200	0.200	1.400

Subsection: Elevation-Area Volume Curve
Label: DRA PE

Return Event: 100 years
Storm Event: 100 YEAR

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ac-ft)	Volume (Total) (ac-ft)
-1.00	0.0	0.160	0.000	0.000	0.000
0.00	0.0	0.160	0.480	0.160	0.160
0.50	0.0	0.160	0.480	0.080	0.240

POST-DEVELOPMENT - THE HILLS

Subsection: Elevation-Area Volume Curve
Label: DRA PF

Return Event: 100 years
Storm Event: 100 YEAR

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ac-ft)	Volume (Total) (ac-ft)
-2.00	0.0	0.345	0.000	0.000	0.000
0.00	0.0	0.345	1.035	0.690	0.690
0.50	0.0	0.345	1.035	0.172	0.863

POST-DEVELOPMENT - THE HILLS

Subsection: Elevation-Area Volume Curve
Label: DRA PH

Return Event: 100 years
Storm Event: 100 YEAR

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ac-ft)	Volume (Total) (ac-ft)
-1.00	0.0	0.190	0.000	0.000	0.000
0.00	0.0	0.190	0.570	0.190	0.190
0.50	0.0	0.190	0.570	0.095	0.285

POST-DEVELOPMENT - THE HILLS

Subsection: Elevation-Area Volume Curve
Label: DRA PI

Return Event: 100 years
Storm Event: 100 YEAR

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ac-ft)	Volume (Total) (ac-ft)
-1.00	0.0	0.350	0.000	0.000	0.000
0.00	0.0	0.350	1.050	0.350	0.350
0.50	0.0	0.350	1.050	0.175	0.525

POST-DEVELOPMENT - THE HILLS

Subsection: Elevation-Area Volume Curve
Label: DRA PJ

Return Event: 100 years
Storm Event: 100 YEAR

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ac-ft)	Volume (Total) (ac-ft)
208.00	0.0	0.040	0.000	0.000	0.000
210.00	0.0	0.140	0.255	0.170	0.170
212.00	0.0	0.420	0.802	0.535	0.705
212.50	0.0	0.430	1.275	0.212	0.917

POST-DEVELOPMENT - THE HILLS

Subsection: Elevation-Area Volume Curve
Label: DRA PK

Return Event: 100 years
Storm Event: 100 YEAR

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ac-ft)	Volume (Total) (ac-ft)
208.00	0.0	0.040	0.000	0.000	0.000
210.00	0.0	0.140	0.255	0.170	0.170
212.00	0.0	0.260	0.591	0.394	0.564
214.00	0.0	0.410	0.996	0.664	1.228
214.50	0.0	0.420	1.245	0.207	1.436

POST-DEVELOPMENT - THE HILLS

Subsection: Elevation-Area Volume Curve
Label: DRA PL

Return Event: 100 years
Storm Event: 100 YEAR

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ac-ft)	Volume (Total) (ac-ft)
176.00	0.0	0.010	0.000	0.000	0.000
178.00	0.0	0.060	0.094	0.063	0.063
180.00	0.0	0.140	0.292	0.194	0.257
182.00	0.0	0.280	0.618	0.412	0.669
184.00	0.0	0.440	1.071	0.714	1.383
184.50	0.0	0.450	1.335	0.222	1.606

POST-DEVELOPMENT - THE HILLS

Subsection: Elevation-Area Volume Curve
Label: DRA PM

Return Event: 100 years
Storm Event: 100 YEAR

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ac-ft)	Volume (Total) (ac-ft)
182.00	0.0	0.010	0.000	0.000	0.000
184.00	0.0	0.090	0.130	0.087	0.087
186.00	0.0	0.220	0.451	0.300	0.387
188.00	0.0	0.370	0.875	0.584	0.971
188.50	0.0	0.380	1.125	0.187	1.158

POST-DEVELOPMENT - THE HILLS

Subsection: Elevation-Area Volume Curve
Label: DRA PN

Return Event: 100 years
Storm Event: 100 YEAR

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ac-ft)	Volume (Total) (ac-ft)
-3.00	0.0	0.347	0.000	0.000	0.000
0.00	0.0	0.347	1.041	1.041	1.041
0.50	0.0	0.347	1.041	0.174	1.215

POST-DEVELOPMENT - THE HILLS

Subsection: Elevation-Area Volume Curve
Label: DRA PO

Return Event: 100 years
Storm Event: 100 YEAR

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ac-ft)	Volume (Total) (ac-ft)
-2.00	0.0	0.310	0.000	0.000	0.000
0.00	0.0	0.310	0.930	0.620	0.620
0.50	0.0	0.310	0.930	0.155	0.775

POST-DEVELOPMENT - THE HILLS

Subsection: Elevation-Area Volume Curve
Label: DRA PP

Return Event: 100 years
Storm Event: 100 YEAR

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ac-ft)	Volume (Total) (ac-ft)
-2.00	0.0	0.310	0.000	0.000	0.000
0.00	0.0	0.310	0.930	0.620	0.620
0.50	0.0	0.310	0.930	0.155	0.775

POST-DEVELOPMENT - THE HILLS

Subsection: Elevation-Area Volume Curve
Label: DRA PR

Return Event: 100 years
Storm Event: 100 YEAR

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ac-ft)	Volume (Total) (ac-ft)
-2.00	0.0	0.095	0.000	0.000	0.000
0.00	0.0	0.095	0.285	0.190	0.190
0.50	0.0	0.095	0.285	0.047	0.238

Subsection: Elevation-Area Volume Curve
Label: DRA PS

Return Event: 100 years
Storm Event: 100 YEAR

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ac-ft)	Volume (Total) (ac-ft)
-3.00	0.0	0.360	0.000	0.000	0.000
0.00	0.0	0.360	1.080	1.080	1.080
0.50	0.0	0.360	1.080	0.180	1.260

POST-DEVELOPMENT - THE HILLS

Subsection: Elevation-Area Volume Curve
Label: DRA PT

Return Event: 100 years
Storm Event: 100 YEAR

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ac-ft)	Volume (Total) (ac-ft)
140.00	0.0	0.065	0.000	0.000	0.000
142.00	0.0	0.185	0.360	0.240	0.240
144.00	0.0	0.317	0.744	0.496	0.736
146.00	0.0	0.462	1.162	0.774	1.510
148.00	0.0	0.627	1.627	1.085	2.595
150.00	0.0	0.823	2.168	1.446	4.041
152.00	0.0	1.056	2.811	1.874	5.915

POST-DEVELOPMENT - THE HILLS

Subsection: Elevation-Area Volume Curve
Label: DRA PU

Return Event: 100 years
Storm Event: 100 YEAR

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ac-ft)	Volume (Total) (ac-ft)
-2.00	0.0	0.110	0.000	0.000	0.000
0.00	0.0	0.110	0.330	0.220	0.220
0.50	0.0	0.110	0.330	0.055	0.275

POST-DEVELOPMENT - THE HILLS

Subsection: Elevation-Area Volume Curve
Label: DRA PV

Return Event: 100 years
Storm Event: 100 YEAR

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ac-ft)	Volume (Total) (ac-ft)
-3.00	0.0	0.257	0.000	0.000	0.000
0.00	0.0	0.257	0.771	0.771	0.771
0.50	0.0	0.257	0.771	0.128	0.899

POST-DEVELOPMENT - THE HILLS

Subsection: Elevation-Area Volume Curve
Label: DRA PW

Return Event: 100 years
Storm Event: 100 YEAR

Elevation (ft)	Planimeter (ft^2)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ac-ft)	Volume (Total) (ac-ft)
-260.00	0.0	0.002	0.000	0.000	0.000
-4.50	0.0	0.002	0.007	0.590	0.590
-4.00	0.0	0.643	0.684	0.114	0.704
0.00	0.0	0.643	1.929	2.572	3.276
0.50	0.0	0.643	1.929	0.322	3.598

POST-DEVELOPMENT - THE HILLS

Subsection: Elevation-Area Volume Curve
Label: DRA PX

Return Event: 100 years
Storm Event: 100 YEAR

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ac-ft)	Volume (Total) (ac-ft)
-2.00	0.0	1.080	0.000	0.000	0.000
0.00	0.0	1.080	3.240	2.160	2.160
0.50	0.0	1.080	3.240	0.540	2.700

POST-DEVELOPMENT - THE HILLS

Subsection: Elevation-Area Volume Curve
Label: DRA PY

Return Event: 100 years
Storm Event: 100 YEAR

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ac-ft)	Volume (Total) (ac-ft)
-2.00	0.0	3.985	0.000	0.000	0.000
0.00	0.0	3.985	11.955	7.970	7.970
0.50	0.0	3.985	11.955	1.992	9.963

POST-DEVELOPMENT - THE HILLS

Subsection: Elevation-Area Volume Curve
Label: DRA PZ

Return Event: 100 years
Storm Event: 100 YEAR

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ac-ft)	Volume (Total) (ac-ft)
-2.00	0.0	0.400	0.000	0.000	0.000
0.00	0.0	0.400	1.200	0.800	0.800
0.50	0.0	0.400	1.200	0.200	1.000

Outlet Data

Subsection: Outlet Input Data
Label: OUT PAA

Return Event: 100 years
Storm Event: 100 YEAR

Requested Pond Water Surface Elevations	
Minimum (Headwater)	-2.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	0.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	Weir - 1	Forward	TW	0.00	0.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

Subsection: Outlet Input Data
Label: OUT PAA

Return Event: 100 years
Storm Event: 100 YEAR

Structure ID: Weir - 1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	0.00 ft
Weir Length	10.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft^3/s
Flow Tolerance (Maximum)	10.000 ft^3/s

Subsection: Outlet Input Data
Label: OUT PAB

Return Event: 100 years
Storm Event: 100 YEAR

Requested Pond Water Surface Elevations	
Minimum (Headwater)	-2.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	0.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	Weir - 1	Forward	TW	0.00	0.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

Subsection: Outlet Input Data
Label: OUT PAB

Return Event: 100 years
Storm Event: 100 YEAR

Structure ID: Weir - 1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	0.00 ft
Weir Length	10.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

Subsection: Outlet Input Data
Label: OUT PAC

Return Event: 100 years
Storm Event: 100 YEAR

Requested Pond Water Surface Elevations	
Minimum (Headwater)	-2.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	0.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	Weir - 1	Forward	TW	0.00	0.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

Subsection: Outlet Input Data
Label: OUT PAC

Return Event: 100 years
Storm Event: 100 YEAR

Structure ID: Weir - 1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	0.00 ft
Weir Length	10.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

Subsection: Outlet Input Data
Label: OUT PAD

Return Event: 100 years
Storm Event: 100 YEAR

Requested Pond Water Surface Elevations	
Minimum (Headwater)	-2.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	0.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	Weir - 1	Forward	TW	0.00	0.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

Subsection: Outlet Input Data
Label: OUT PAD

Return Event: 100 years
Storm Event: 100 YEAR

Structure ID: Weir - 1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	0.00 ft
Weir Length	10.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

Subsection: Outlet Input Data
Label: OUT PAE

Return Event: 100 years
Storm Event: 100 YEAR

Requested Pond Water Surface Elevations	
Minimum (Headwater)	-3.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	0.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	Weir - 1	Forward	TW	0.00	0.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

Subsection: Outlet Input Data
Label: OUT PAE

Return Event: 100 years
Storm Event: 100 YEAR

Structure ID: Weir - 1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	0.00 ft
Weir Length	10.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft^3/s
Flow Tolerance (Maximum)	10.000 ft^3/s

Subsection: Outlet Input Data
Label: OUT PAF

Return Event: 100 years
Storm Event: 100 YEAR

Requested Pond Water Surface Elevations	
Minimum (Headwater)	-3.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	0.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	Weir - 1	Forward	TW	0.00	0.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

Subsection: Outlet Input Data
Label: OUT PAF

Return Event: 100 years
Storm Event: 100 YEAR

Structure ID: Weir - 1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	0.00 ft
Weir Length	10.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft^3/s
Flow Tolerance (Maximum)	10.000 ft^3/s

Subsection: Outlet Input Data
Label: OUT PAG

Return Event: 100 years
Storm Event: 100 YEAR

Requested Pond Water Surface Elevations	
Minimum (Headwater)	-1.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	0.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	Weir - 1	Forward	TW	0.00	0.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

Subsection: Outlet Input Data
Label: OUT PAG

Return Event: 100 years
Storm Event: 100 YEAR

Structure ID: Weir - 1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	0.00 ft
Weir Length	10.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

Subsection: Outlet Input Data
Label: OUT PAH

Return Event: 100 years
Storm Event: 100 YEAR

Requested Pond Water Surface Elevations	
Minimum (Headwater)	-3.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	0.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	Weir - 1	Forward	TW	0.00	0.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

Subsection: Outlet Input Data
Label: OUT PAH

Return Event: 100 years
Storm Event: 100 YEAR

Structure ID: Weir - 1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	0.00 ft
Weir Length	10.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

Subsection: Outlet Input Data
Label: OUT PAI

Return Event: 100 years
Storm Event: 100 YEAR

Requested Pond Water Surface Elevations	
Minimum (Headwater)	22.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	27.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	Weir - 1	Forward	TW	27.00	27.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

Subsection: Outlet Input Data
Label: OUT PAI

Return Event: 100 years
Storm Event: 100 YEAR

Structure ID: Weir - 1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	27.00 ft
Weir Length	175.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

Subsection: Outlet Input Data
Label: OUT PAJ

Return Event: 100 years
Storm Event: 100 YEAR

Requested Pond Water Surface Elevations	
Minimum (Headwater)	34.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	36.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	Weir - 1	Forward	TW	36.00	36.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

Subsection: Outlet Input Data
Label: OUT PAJ

Return Event: 100 years
Storm Event: 100 YEAR

Structure ID: Weir - 1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	36.00 ft
Weir Length	170.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

Subsection: Outlet Input Data
Label: OUT PAL

Return Event: 100 years
Storm Event: 100 YEAR

Requested Pond Water Surface Elevations	
Minimum (Headwater)	21.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	26.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	Weir - 1	Forward	TW	24.00	26.00
Tailwater Settings	Tailwater			(N/A)	(N/A)

Subsection: Outlet Input Data
Label: OUT PAL

Return Event: 100 years
Storm Event: 100 YEAR

Structure ID: Weir - 1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	24.00 ft
Weir Length	24.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

Subsection: Outlet Input Data
Label: OUT PAM

Return Event: 100 years
Storm Event: 100 YEAR

Requested Pond Water Surface Elevations	
Minimum (Headwater)	-2.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	0.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	Weir - 1	Forward	TW	0.00	0.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

Subsection: Outlet Input Data
Label: OUT PAM

Return Event: 100 years
Storm Event: 100 YEAR

Structure ID: Weir - 1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	0.00 ft
Weir Length	10.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

Subsection: Outlet Input Data
Label: OUT PAO

Return Event: 100 years
Storm Event: 100 YEAR

Requested Pond Water Surface Elevations	
Minimum (Headwater)	20.00 ft
Increment (Headwater)	0.05 ft
Maximum (Headwater)	23.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	Weir - 1	Forward	TW	22.50	23.00
Tailwater Settings	Tailwater			(N/A)	(N/A)

Subsection: Outlet Input Data
Label: OUT PAO

Return Event: 100 years
Storm Event: 100 YEAR

Structure ID: Weir - 1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	22.50 ft
Weir Length	190.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

Subsection: Outlet Input Data
Label: OUT PAP

Return Event: 100 years
Storm Event: 100 YEAR

Requested Pond Water Surface Elevations	
Minimum (Headwater)	-3.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	0.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	Weir - 1	Forward	TW	0.00	0.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

Subsection: Outlet Input Data
Label: OUT PAP

Return Event: 100 years
Storm Event: 100 YEAR

Structure ID: Weir - 1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	0.00 ft
Weir Length	10.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

Subsection: Outlet Input Data
Label: OUT PAQ

Return Event: 100 years
Storm Event: 100 YEAR

Requested Pond Water Surface Elevations	
Minimum (Headwater)	-3.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	0.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	Weir - 1	Forward	TW	0.00	0.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

Subsection: Outlet Input Data
Label: OUT PAQ

Return Event: 100 years
Storm Event: 100 YEAR

Structure ID: Weir - 1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	0.00 ft
Weir Length	10.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

Subsection: Outlet Input Data
Label: OUT PAR

Return Event: 100 years
Storm Event: 100 YEAR

Requested Pond Water Surface Elevations	
Minimum (Headwater)	-3.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	0.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	Weir - 1	Forward	TW	0.00	0.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

Subsection: Outlet Input Data
Label: OUT PAR

Return Event: 100 years
Storm Event: 100 YEAR

Structure ID: Weir - 1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	0.00 ft
Weir Length	10.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft^3/s
Flow Tolerance (Maximum)	10.000 ft^3/s

Subsection: Outlet Input Data
Label: OUT PAS

Return Event: 100 years
Storm Event: 100 YEAR

Requested Pond Water Surface Elevations	
Minimum (Headwater)	-3.00 ft
Increment (Headwater)	0.05 ft
Maximum (Headwater)	1.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	Weir - 1	Forward	TW	0.00	1.00
Tailwater Settings	Tailwater			(N/A)	(N/A)

Subsection: Outlet Input Data
Label: OUT PAS

Return Event: 100 years
Storm Event: 100 YEAR

Structure ID: Weir - 1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	0.00 ft
Weir Length	80.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft^3/s
Flow Tolerance (Maximum)	10.000 ft^3/s

Subsection: Outlet Input Data
Label: OUT PAW

Return Event: 100 years
Storm Event: 100 YEAR

Requested Pond Water Surface Elevations	
Minimum (Headwater)	17.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	21.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	Weir - 1	Forward	TW	20.00	21.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

Subsection: Outlet Input Data
Label: OUT PAW

Return Event: 100 years
Storm Event: 100 YEAR

Structure ID: Weir - 1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	20.00 ft
Weir Length	60.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

Subsection: Outlet Input Data
Label: OUT PAX

Return Event: 100 years
Storm Event: 100 YEAR

Requested Pond Water Surface Elevations	
Minimum (Headwater)	-115.00 ft
Increment (Headwater)	0.05 ft
Maximum (Headwater)	0.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	Weir - 1	Forward	TW	0.00	0.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

Subsection: Outlet Input Data
Label: OUT PAX

Return Event: 100 years
Storm Event: 100 YEAR

Structure ID: Weir - 1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	0.00 ft
Weir Length	30.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

Subsection: Outlet Input Data
Label: OUT PB

Return Event: 100 years
Storm Event: 100 YEAR

Requested Pond Water Surface Elevations	
Minimum (Headwater)	-3.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	0.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	Weir - 1	Forward	TW	0.00	0.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

Subsection: Outlet Input Data
Label: OUT PB

Return Event: 100 years
Storm Event: 100 YEAR

Structure ID: Weir - 1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	0.00 ft
Weir Length	160.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

Subsection: Outlet Input Data
Label: OUT PC

Return Event: 100 years
Storm Event: 100 YEAR

Requested Pond Water Surface Elevations	
Minimum (Headwater)	-2.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	0.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	Weir - 1	Forward	TW	0.00	0.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

Subsection: Outlet Input Data
Label: OUT PC

Return Event: 100 years
Storm Event: 100 YEAR

Structure ID: Weir - 1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	0.00 ft
Weir Length	10.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft^3/s
Flow Tolerance (Maximum)	10.000 ft^3/s

Subsection: Outlet Input Data
Label: OUT PD

Return Event: 100 years
Storm Event: 100 YEAR

Requested Pond Water Surface Elevations	
Minimum (Headwater)	-3.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	0.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	Weir - 1	Forward	TW	0.00	0.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

Subsection: Outlet Input Data
Label: OUT PD

Return Event: 100 years
Storm Event: 100 YEAR

Structure ID: Weir - 1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	0.00 ft
Weir Length	10.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

Subsection: Outlet Input Data
Label: OUT PE

Return Event: 100 years
Storm Event: 100 YEAR

Requested Pond Water Surface Elevations	
Minimum (Headwater)	-1.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	0.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	Weir - 1	Forward	TW	0.00	0.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

Subsection: Outlet Input Data
Label: OUT PE

Return Event: 100 years
Storm Event: 100 YEAR

Structure ID: Weir - 1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	0.00 ft
Weir Length	10.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

Subsection: Outlet Input Data
Label: OUT PF

Return Event: 100 years
Storm Event: 100 YEAR

Requested Pond Water Surface Elevations	
Minimum (Headwater)	-2.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	0.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	Weir - 1	Forward	TW	0.00	0.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

Subsection: Outlet Input Data
Label: OUT PF

Return Event: 100 years
Storm Event: 100 YEAR

Structure ID: Weir - 1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	0.00 ft
Weir Length	10.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

Subsection: Outlet Input Data
Label: OUT PH

Return Event: 100 years
Storm Event: 100 YEAR

Requested Pond Water Surface Elevations	
Minimum (Headwater)	-1.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	0.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	Weir - 1	Forward	TW	0.00	0.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

Subsection: Outlet Input Data
Label: OUT PH

Return Event: 100 years
Storm Event: 100 YEAR

Structure ID: Weir - 1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	0.00 ft
Weir Length	10.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

Subsection: Outlet Input Data
Label: OUT PI

Return Event: 100 years
Storm Event: 100 YEAR

Requested Pond Water Surface Elevations	
Minimum (Headwater)	-1.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	0.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	Weir - 1	Forward	TW	0.00	0.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

Subsection: Outlet Input Data
Label: OUT PI

Return Event: 100 years
Storm Event: 100 YEAR

Structure ID: Weir - 1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	0.00 ft
Weir Length	10.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

Subsection: Outlet Input Data
Label: OUT PJ

Return Event: 100 years
Storm Event: 100 YEAR

Requested Pond Water Surface Elevations	
Minimum (Headwater)	208.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	212.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	Weir - 1	Forward	TW	212.00	212.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

Subsection: Outlet Input Data
Label: OUT PJ

Return Event: 100 years
Storm Event: 100 YEAR

Structure ID: Weir - 1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	212.00 ft
Weir Length	10.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

Subsection: Outlet Input Data
Label: OUT PK

Return Event: 100 years
Storm Event: 100 YEAR

Requested Pond Water Surface Elevations	
Minimum (Headwater)	208.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	214.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	Weir - 1	Forward	TW	214.00	214.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

Subsection: Outlet Input Data
Label: OUT PK

Return Event: 100 years
Storm Event: 100 YEAR

Structure ID: Weir - 1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	214.00 ft
Weir Length	10.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

Subsection: Outlet Input Data
Label: OUT PL

Return Event: 100 years
Storm Event: 100 YEAR

Requested Pond Water Surface Elevations	
Minimum (Headwater)	176.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	184.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	Weir - 1	Forward	TW	184.00	184.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

Subsection: Outlet Input Data
Label: OUT PL

Return Event: 100 years
Storm Event: 100 YEAR

Structure ID: Weir - 1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	184.00 ft
Weir Length	10.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

Subsection: Outlet Input Data
Label: OUT PM

Return Event: 100 years
Storm Event: 100 YEAR

Requested Pond Water Surface Elevations	
Minimum (Headwater)	182.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	188.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	Weir - 1	Forward	TW	188.00	188.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

Subsection: Outlet Input Data
Label: OUT PM

Return Event: 100 years
Storm Event: 100 YEAR

Structure ID: Weir - 1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	188.00 ft
Weir Length	10.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

Subsection: Outlet Input Data
Label: OUT PN

Return Event: 100 years
Storm Event: 100 YEAR

Requested Pond Water Surface Elevations	
Minimum (Headwater)	-3.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	0.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	Weir - 1	Forward	TW	0.00	0.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

Subsection: Outlet Input Data
Label: OUT PN

Return Event: 100 years
Storm Event: 100 YEAR

Structure ID: Weir - 1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	0.00 ft
Weir Length	10.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

Subsection: Outlet Input Data
Label: OUT PO

Return Event: 100 years
Storm Event: 100 YEAR

Requested Pond Water Surface Elevations	
Minimum (Headwater)	-2.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	0.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	Weir - 1	Forward	TW	0.00	0.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

Subsection: Outlet Input Data
Label: OUT PO

Return Event: 100 years
Storm Event: 100 YEAR

Structure ID: Weir - 1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	0.00 ft
Weir Length	10.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft^3/s
Flow Tolerance (Maximum)	10.000 ft^3/s

Subsection: Outlet Input Data
Label: OUT PP

Return Event: 100 years
Storm Event: 100 YEAR

Requested Pond Water Surface Elevations	
Minimum (Headwater)	-2.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	0.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	Weir - 1	Forward	TW	0.00	0.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

Subsection: Outlet Input Data
Label: OUT PP

Return Event: 100 years
Storm Event: 100 YEAR

Structure ID: Weir - 1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	0.00 ft
Weir Length	10.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

Subsection: Outlet Input Data
Label: OUT PR

Return Event: 100 years
Storm Event: 100 YEAR

Requested Pond Water Surface Elevations	
Minimum (Headwater)	-2.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	0.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	Weir - 1	Forward	TW	0.00	0.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

Subsection: Outlet Input Data
Label: OUT PR

Return Event: 100 years
Storm Event: 100 YEAR

Structure ID: Weir - 1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	0.00 ft
Weir Length	10.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

Subsection: Outlet Input Data
Label: OUT PS

Return Event: 100 years
Storm Event: 100 YEAR

Requested Pond Water Surface Elevations	
Minimum (Headwater)	-3.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	0.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	Weir - 1	Forward	TW	0.00	0.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

Subsection: Outlet Input Data
Label: OUT PS

Return Event: 100 years
Storm Event: 100 YEAR

Structure ID: Weir - 1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	0.00 ft
Weir Length	10.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

Subsection: Outlet Input Data
Label: OUT PT

Return Event: 100 years
Storm Event: 100 YEAR

Requested Pond Water Surface Elevations	
Minimum (Headwater)	140.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	152.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	Weir - 1	Forward	TW	150.00	152.00
Tailwater Settings	Tailwater			(N/A)	(N/A)

Subsection: Outlet Input Data
Label: OUT PT

Return Event: 100 years
Storm Event: 100 YEAR

Structure ID: Weir - 1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	150.00 ft
Weir Length	10.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft^3/s
Flow Tolerance (Maximum)	10.000 ft^3/s

Subsection: Outlet Input Data
Label: OUT PU

Return Event: 100 years
Storm Event: 100 YEAR

Requested Pond Water Surface Elevations	
Minimum (Headwater)	-2.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	0.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	Weir - 1	Forward	TW	0.00	0.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

Subsection: Outlet Input Data
Label: OUT PU

Return Event: 100 years
Storm Event: 100 YEAR

Structure ID: Weir - 1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	0.00 ft
Weir Length	10.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

Subsection: Outlet Input Data
Label: OUT PV

Return Event: 100 years
Storm Event: 100 YEAR

Requested Pond Water Surface Elevations	
Minimum (Headwater)	-3.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	0.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	Weir - 1	Forward	TW	0.00	0.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

Subsection: Outlet Input Data
Label: OUT PV

Return Event: 100 years
Storm Event: 100 YEAR

Structure ID: Weir - 1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	0.00 ft
Weir Length	10.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

Subsection: Outlet Input Data
Label: OUT PW

Return Event: 100 years
Storm Event: 100 YEAR

Requested Pond Water Surface Elevations	
Minimum (Headwater)	-260.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	0.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	Weir - 1	Forward	TW	0.00	0.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

Subsection: Outlet Input Data
Label: OUT PW

Return Event: 100 years
Storm Event: 100 YEAR

Structure ID: Weir - 1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	0.00 ft
Weir Length	15.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

Subsection: Outlet Input Data
Label: OUT PX

Return Event: 100 years
Storm Event: 100 YEAR

Requested Pond Water Surface Elevations	
Minimum (Headwater)	-2.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	0.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	Weir - 1	Forward	TW	0.00	0.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

Subsection: Outlet Input Data
Label: OUT PX

Return Event: 100 years
Storm Event: 100 YEAR

Structure ID: Weir - 1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	0.00 ft
Weir Length	10.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

Subsection: Outlet Input Data
Label: OUT PY

Return Event: 100 years
Storm Event: 100 YEAR

Requested Pond Water Surface Elevations	
Minimum (Headwater)	-2.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	0.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	Weir - 1	Forward	TW	0.00	0.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

Subsection: Outlet Input Data
Label: OUT PY

Return Event: 100 years
Storm Event: 100 YEAR

Structure ID: Weir - 1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	0.00 ft
Weir Length	10.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

Subsection: Outlet Input Data
Label: OUT PZ

Return Event: 100 years
Storm Event: 100 YEAR

Requested Pond Water Surface Elevations	
Minimum (Headwater)	-2.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	0.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	Weir - 1	Forward	TW	0.00	0.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

Subsection: Outlet Input Data
Label: OUT PZ

Return Event: 100 years
Storm Event: 100 YEAR

Structure ID: Weir - 1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	0.00 ft
Weir Length	10.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s