SEMINARY

DRAINAGE REPORT

Date: **10-09-2024**

Located in: **Bryant, Arkansas**

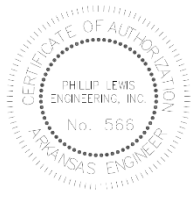
Prepared for:
City of Bryant, Arkansas

Prepared by:

PHILLIP LEWIS ENGINEERING
Structural + Civil Consultants
23620 Interstate 30 | Bryant, AR
PH: 501-350-9840

CERTIFICATION

I hereby state that this Final Drainage has been prepared by me or under my supervision and meets the standard of care and expertise which is usual and customary in this community of professional engineers. The analysis has been prepared utilizing procedures and practices by the City of Bryant and within the standard accepted practices.



DATE: 10-09-2024

Phillip A. Lewis, PE.

PROJECT LOCATION MAP

DESCRIPTION OF PROPERTY

The proposed project is for the consruction of a new Seminary located along Highway 5. The proposed development is a 20,000 sq. ft. building, public road and parking lot.

The intent of this drainage analysis is to adequately size the storm sewer system and summarize pre and post runoff conditions.

The existing ground coverage for the entire development drainage basin consists of and natural vegetation (2%-7% slope), hydrologic soil group B/C.

According to FEMA Flood Insurance Rate Map, Panel 05125C0240E, this property lies within Zone X, areas determined to be outside the 0.2% annual chance floodplain. A copy of the map can be found in the appendix.

DRAINAGE CRITERIA

In accordance with the requirements of the City of Bryant, the proposed developments drainage plan and this drainage report were developed with the criteria established in the Bryant Stormwater Management & Drainage Manual provided on cityofbryant.com.

All drainage calculations were performed using HydroCAD software to determine and analyze the changes in stormrunoff volume, flow rates, and design the outlet release structure. Hydraflow Express software was used to appropriately design and size all storm sewer inlets, pipes and channels.

Calculations were performed using the Rational Method, using NOAA rainfall data, and the pipe and intlet structure sizes were determined by the 25-year storm event.

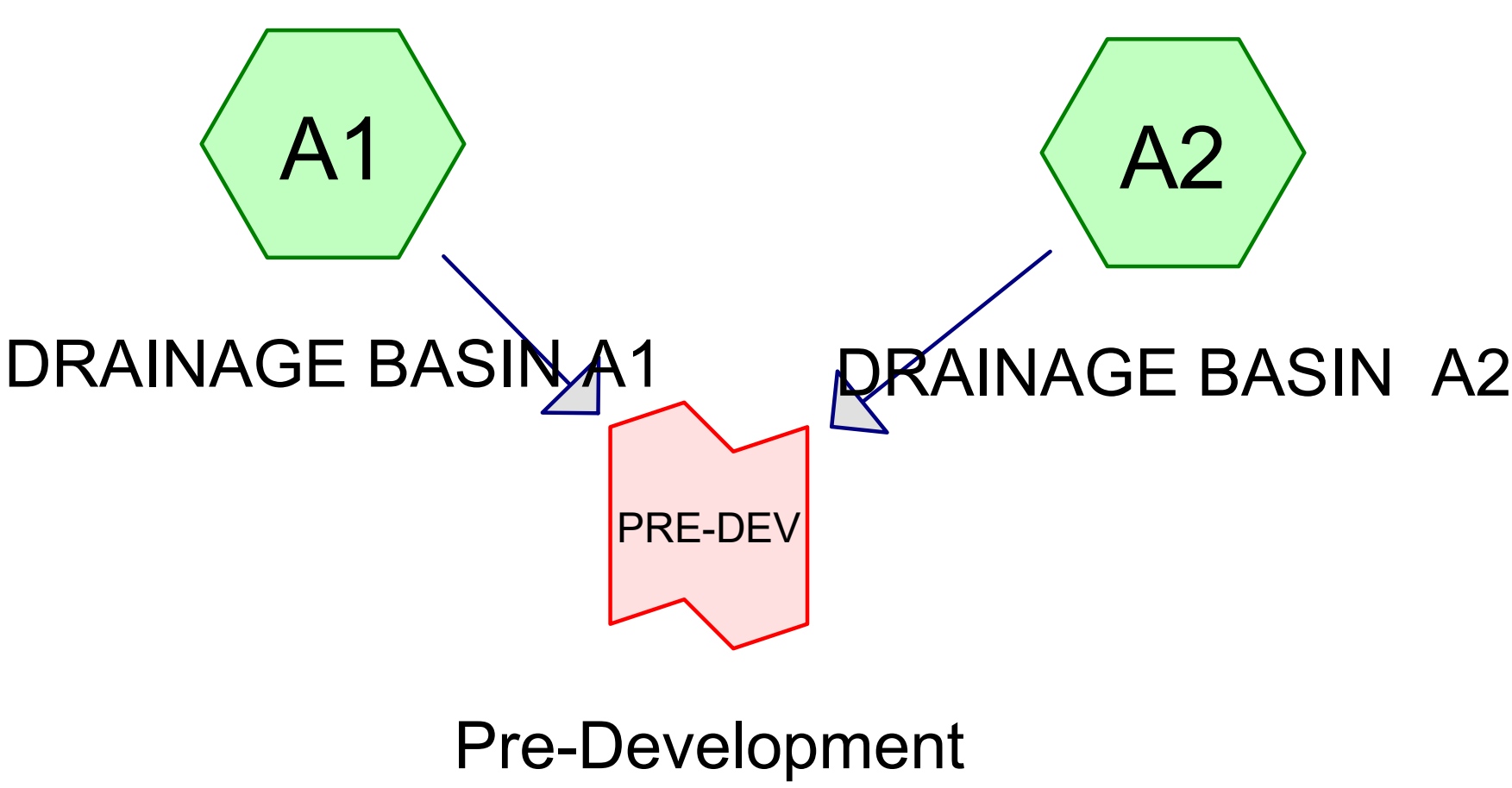
PROPOSED DRAINAGE SYSTEM

This develompent is designed to capture the majority of runoff within the public road and parking lot curb and gutter. The storm sewer system will consist of with “Nyloplast” area inlets and standard concrete curb inlets. These inlets were sized based on there independent drainage basin flow rate and the slope that the inlets will be placed at.

Overall Pre-development and Post-development runoff/discharge rates are compared below:

Storm Event	Pre-development Discharge (cfs)	Post-development Discharge (cfs)
2-yr	9.45	12.34
5-yr	11.27	14.72
10-yr	12.73	16.63
25-yr	14.61	19.08
100-yr	17.44	22.78

PRE DEVELOPMENT HYDROGRAPHS



Pre-Development

Subcat Reach Pond Link

Routing Diagram for Seminary Drainage
Prepared by Phillip Lewis Engineering, Printed 10/9/2024

Summary for Subcatchment A1: DRAINAGE BASIN A1

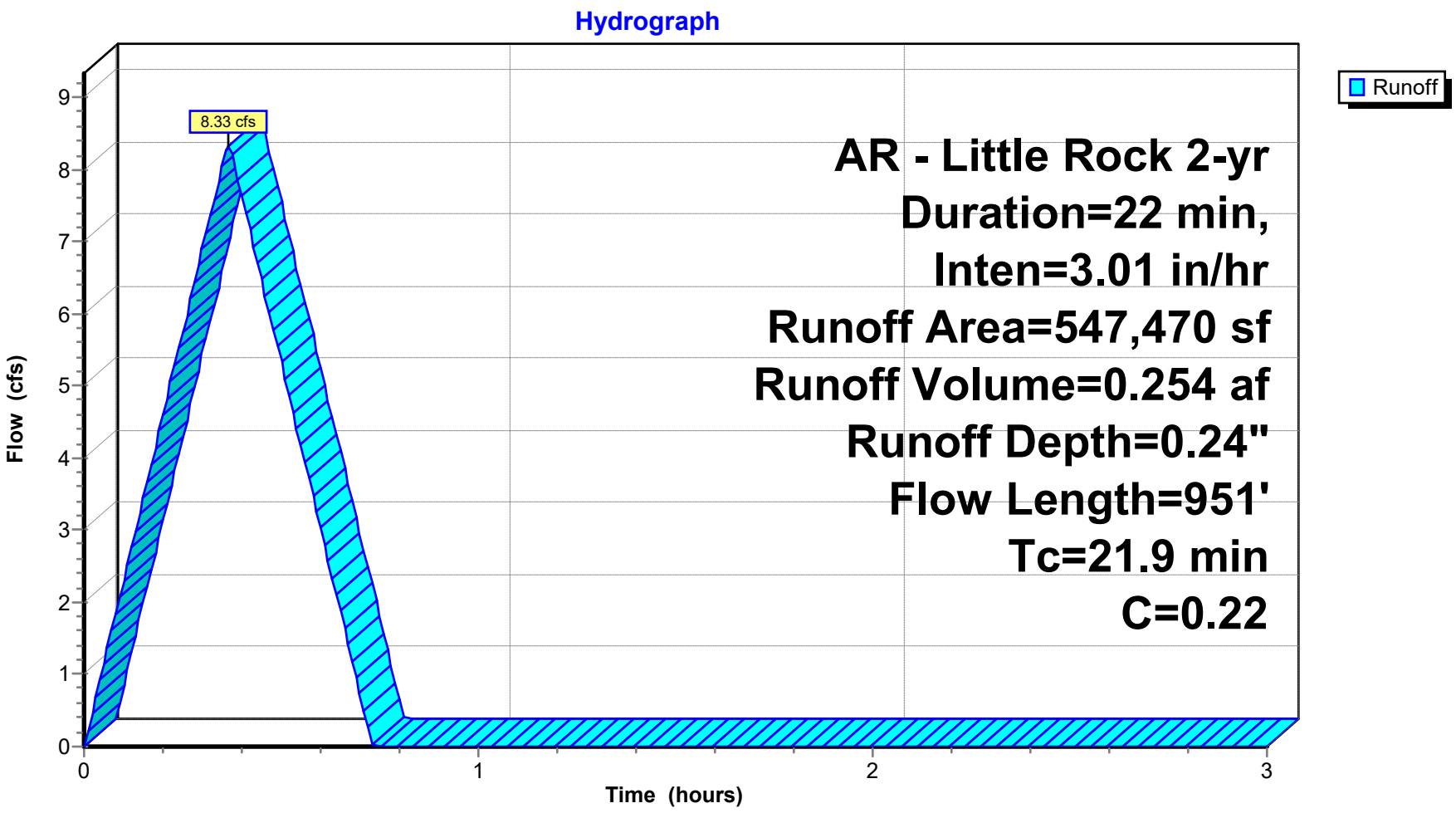
Runoff = 8.33 cfs @ 0.37 hrs, Volume= 0.254 af, Depth= 0.24"
Routed to Link PRE-DEV : Pre-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 2-yr Duration=22 min, Inten=3.01 in/hr

Area (sf)	C	Description
547,470	0.22	Sandy Soil 2-7% per manual (undeveloped)
547,470		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.2	96	0.0840	0.16		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 4.20"
0.7	76	0.0710	1.87		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.7	76	0.0660	1.80		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.4	47	0.0660	1.80		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.3	28	0.0640	1.77		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.2	25	0.0590	1.70		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.8	80	0.0580	1.69		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.2	107	0.0430	1.45		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.7	42	0.0180	0.94		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.7	49	0.0300	1.21		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
2.5	158	0.0220	1.04		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.1	67	0.0200	0.99		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.1	45	0.0100	0.70		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.3	55	0.0100	0.70		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
21.9	951	Total			

Subcatchment A1: DRAINAGE BASIN A1



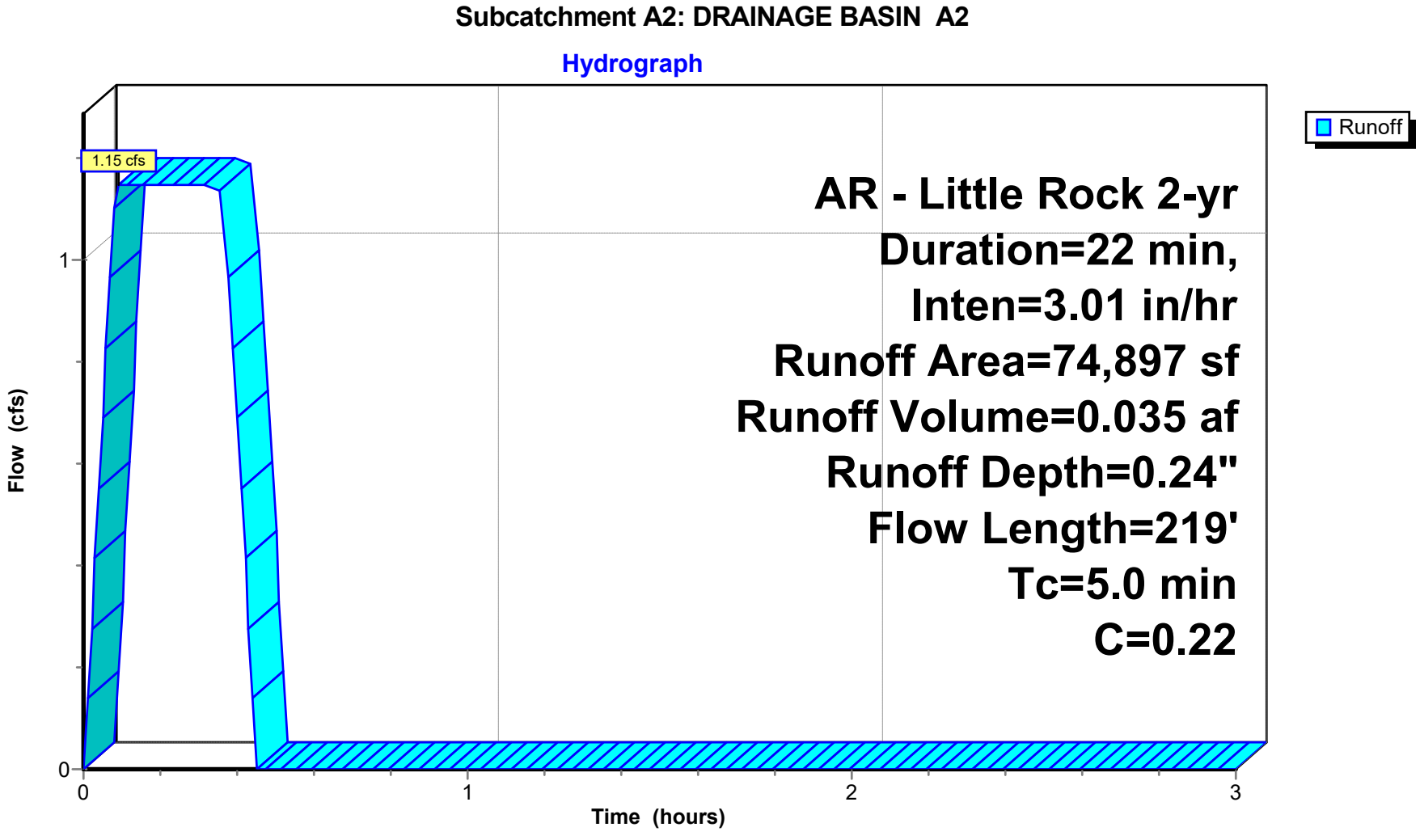
Summary for Subcatchment A2: DRAINAGE BASIN A2

Runoff = 1.15 cfs @ 0.09 hrs, Volume= 0.035 af, Depth= 0.24"
Routed to Link PRE-DEV : Pre-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 2-yr Duration=22 min, Inten=3.01 in/hr

Area (sf)	C	Description
74,897	0.22	2-7% Sandy per LR Manual
74,897		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.2	12	0.0330	1.27		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.9	144	0.0310	1.23		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.3	18	0.0200	0.99		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.6	45	0.0340	1.29		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
2.0					**Direct Entry, min adjustment**
5.0	219	Total			



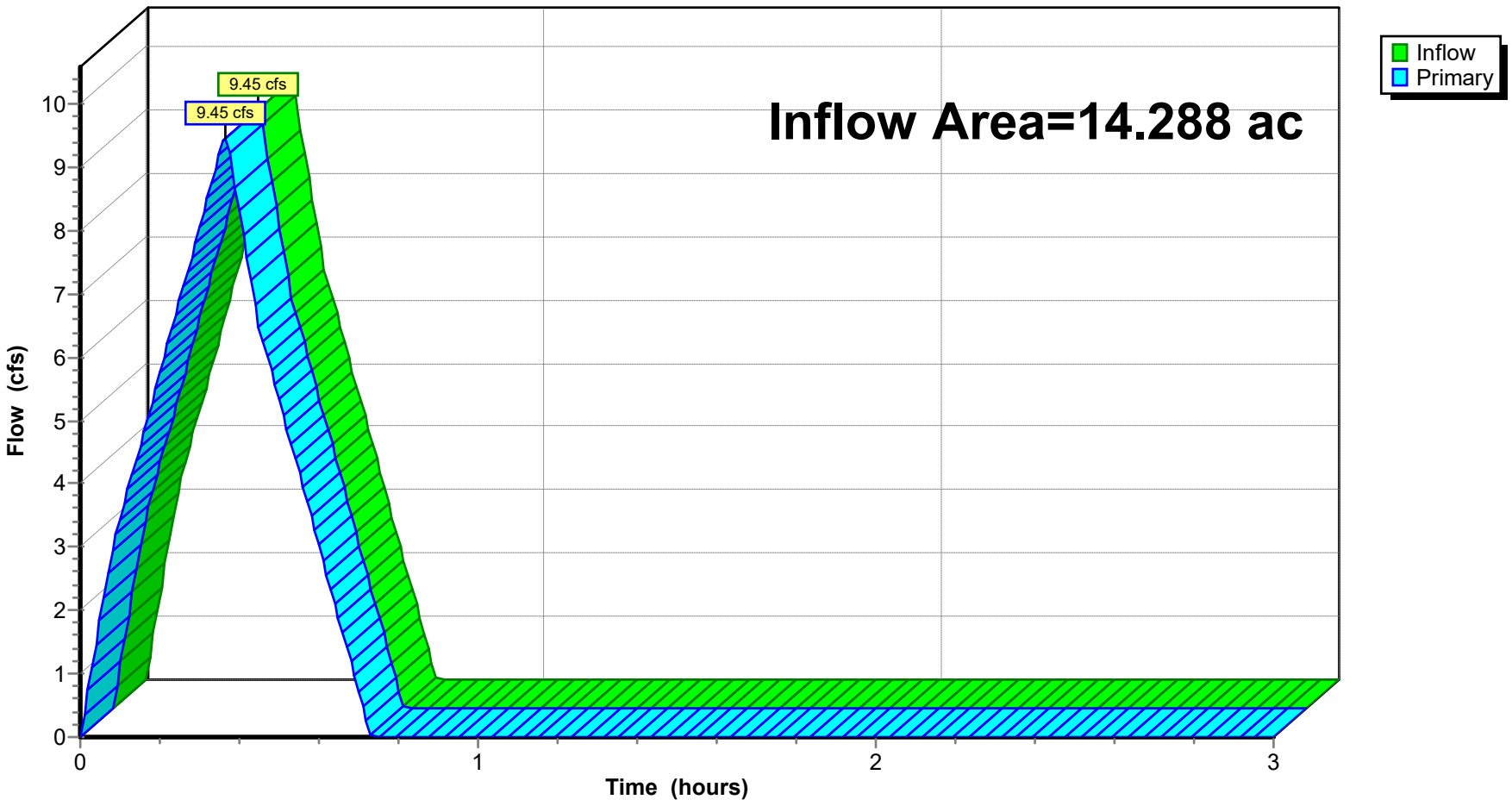
Summary for Link PRE-DEV: Pre-Development

Inflow Area = 14.288 ac, 0.00% Impervious, Inflow Depth = 0.24" for 2-yr event
Inflow = 9.45 cfs @ 0.36 hrs, Volume= 0.289 af
Primary = 9.45 cfs @ 0.36 hrs, Volume= 0.289 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Link PRE-DEV: Pre-Development

Hydrograph



Summary for Subcatchment A1: DRAINAGE BASIN A1

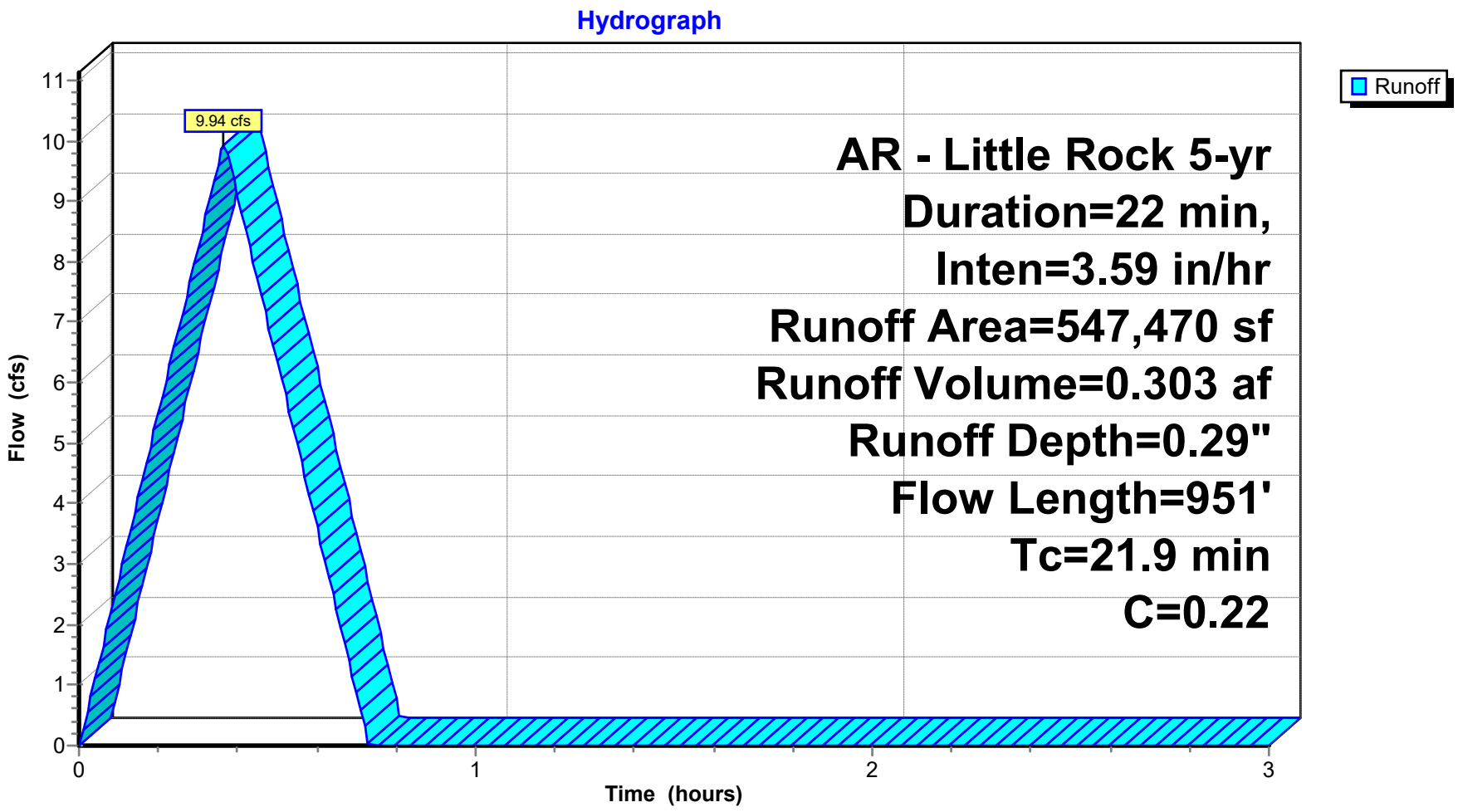
Runoff = 9.94 cfs @ 0.37 hrs, Volume= 0.303 af, Depth= 0.29"
Routed to Link PRE-DEV : Pre-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 5-yr Duration=22 min, Inten=3.59 in/hr

Area (sf)	C	Description
547,470	0.22	Sandy Soil 2-7% per manual (undeveloped)
547,470		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.2	96	0.0840	0.16		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 4.20"
0.7	76	0.0710	1.87		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.7	76	0.0660	1.80		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.4	47	0.0660	1.80		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.3	28	0.0640	1.77		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.2	25	0.0590	1.70		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.8	80	0.0580	1.69		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.2	107	0.0430	1.45		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.7	42	0.0180	0.94		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.7	49	0.0300	1.21		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
2.5	158	0.0220	1.04		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.1	67	0.0200	0.99		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.1	45	0.0100	0.70		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.3	55	0.0100	0.70		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
21.9	951	Total			

Subcatchment A1: DRAINAGE BASIN A1



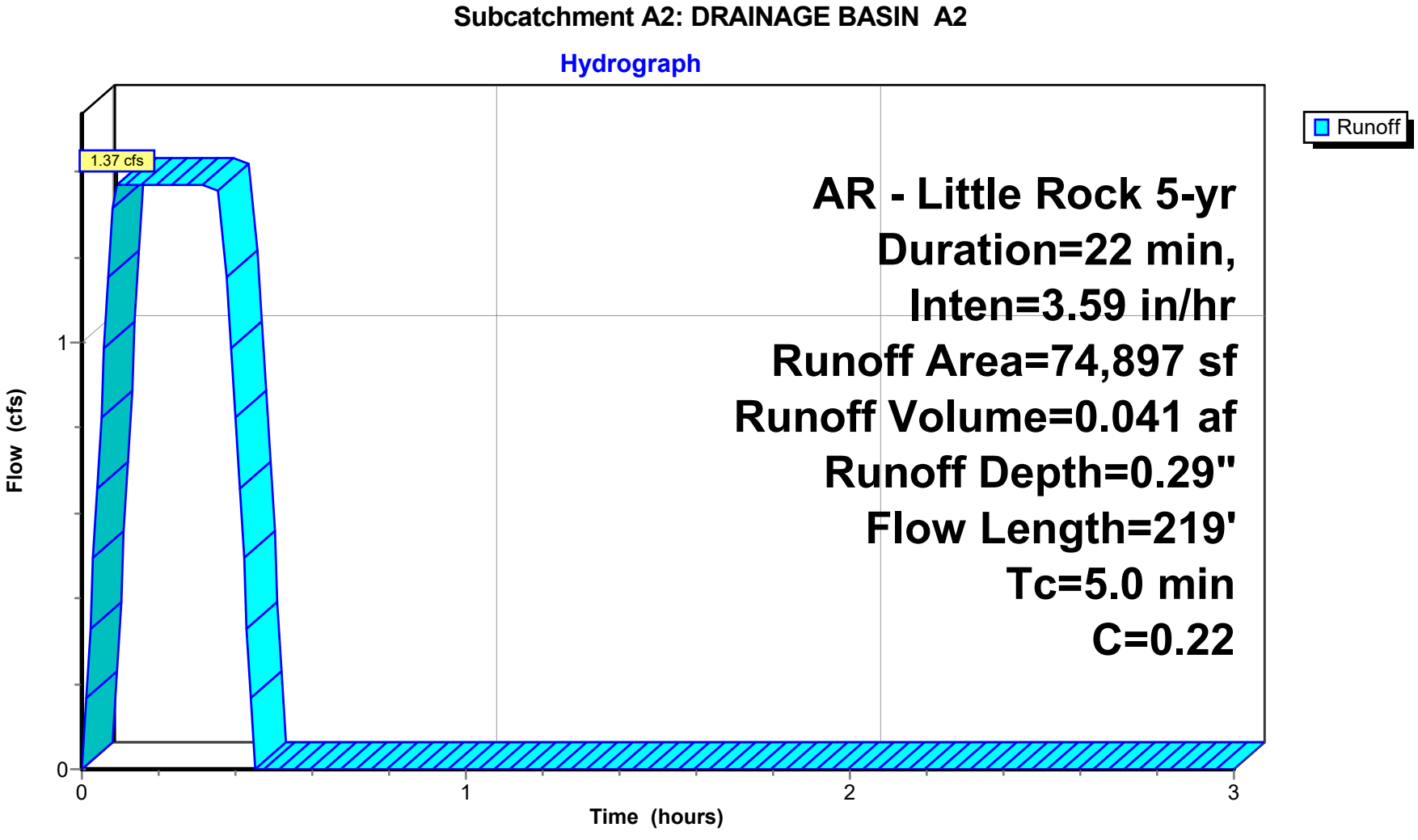
Summary for Subcatchment A2: DRAINAGE BASIN A2

Runoff = 1.37 cfs @ 0.09 hrs, Volume= 0.041 af, Depth= 0.29"
Routed to Link PRE-DEV : Pre-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 5-yr Duration=22 min, Inten=3.59 in/hr

Area (sf)	C	Description
74,897	0.22	2-7% Sandy per LR Manual
74,897		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.2	12	0.0330	1.27		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.9	144	0.0310	1.23		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.3	18	0.0200	0.99		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.6	45	0.0340	1.29		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
2.0					**Direct Entry, min adjustment**
5.0	219	Total			



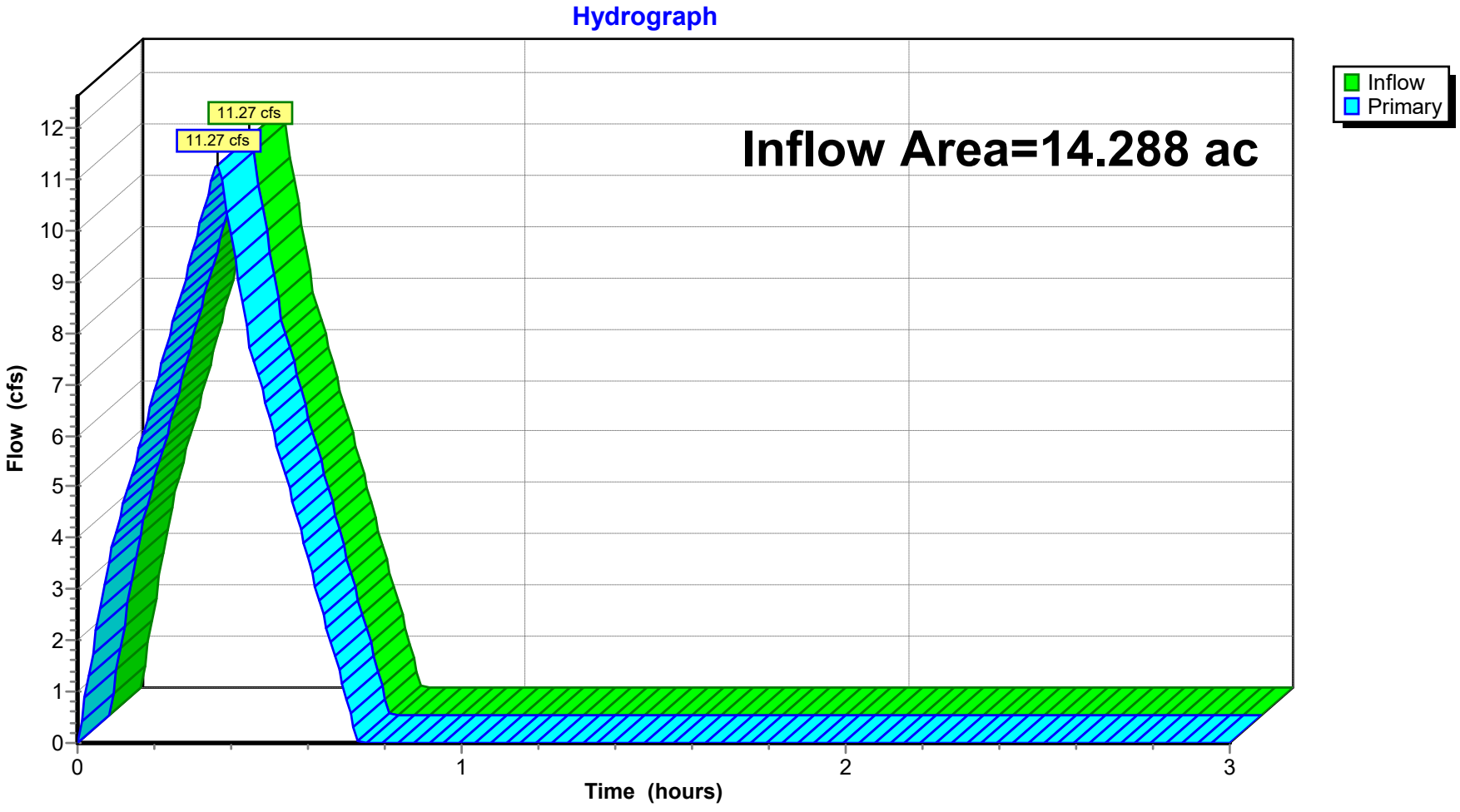
Summary for Link PRE-DEV: Pre-Development

Inflow Area = 14.288 ac, 0.00% Impervious, Inflow Depth = 0.29" for 5-yr event
Inflow = 11.27 cfs @ 0.36 hrs, Volume= 0.345 af
Primary = 11.27 cfs @ 0.36 hrs, Volume= 0.345 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Link PRE-DEV: Pre-Development

Hydrograph



Summary for Subcatchment A1: DRAINAGE BASIN A1

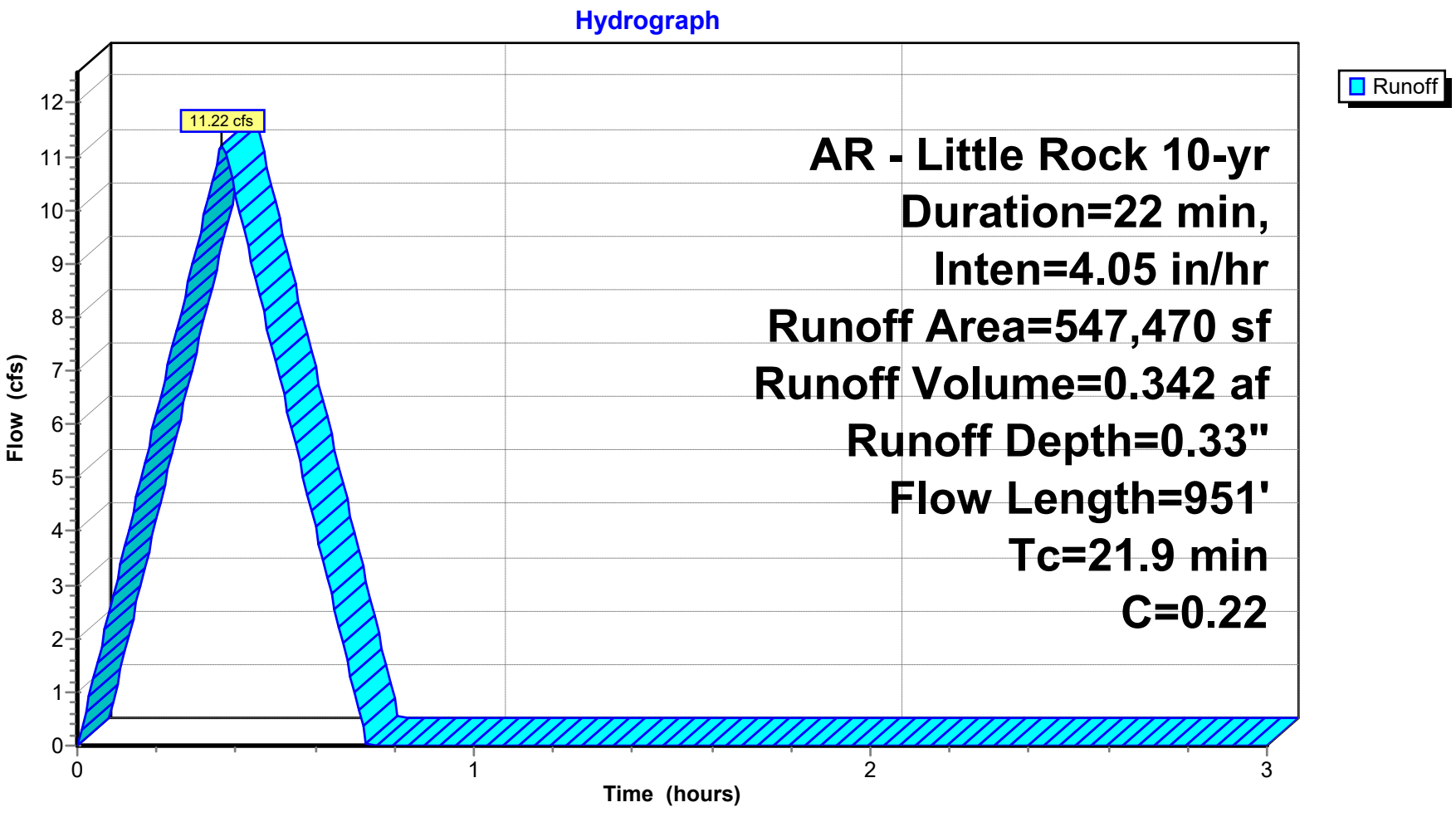
Runoff = 11.22 cfs @ 0.37 hrs, Volume= 0.342 af, Depth= 0.33"
Routed to Link PRE-DEV : Pre-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 10-yr Duration=22 min, Inten=4.05 in/hr

Area (sf)	C	Description
547,470	0.22	Sandy Soil 2-7% per manual (undeveloped)
547,470		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.2	96	0.0840	0.16		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 4.20"
0.7	76	0.0710	1.87		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.7	76	0.0660	1.80		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.4	47	0.0660	1.80		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.3	28	0.0640	1.77		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.2	25	0.0590	1.70		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.8	80	0.0580	1.69		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.2	107	0.0430	1.45		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.7	42	0.0180	0.94		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.7	49	0.0300	1.21		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
2.5	158	0.0220	1.04		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.1	67	0.0200	0.99		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.1	45	0.0100	0.70		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.3	55	0.0100	0.70		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
21.9	951	Total			

Subcatchment A1: DRAINAGE BASIN A1



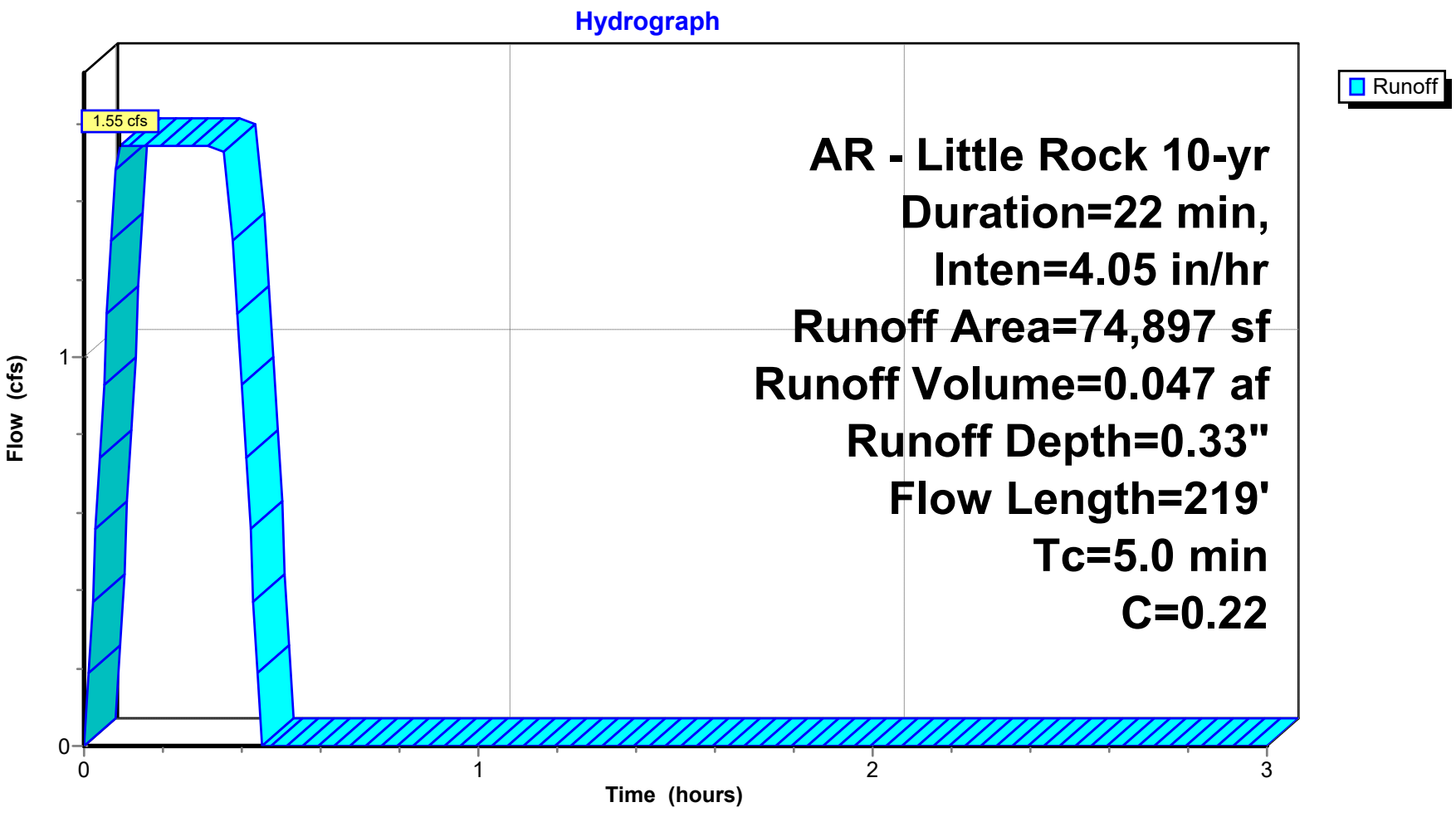
Summary for Subcatchment A2: DRAINAGE BASIN A2

Runoff = 1.55 cfs @ 0.09 hrs, Volume= 0.047 af, Depth= 0.33"
Routed to Link PRE-DEV : Pre-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 10-yr Duration=22 min, Inten=4.05 in/hr

Area (sf)	C	Description
74,897	0.22	2-7% Sandy per LR Manual
74,897		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.2	12	0.0330	1.27		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.9	144	0.0310	1.23		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.3	18	0.0200	0.99		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.6	45	0.0340	1.29		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
2.0					**Direct Entry, min adjustment**
5.0	219	Total			



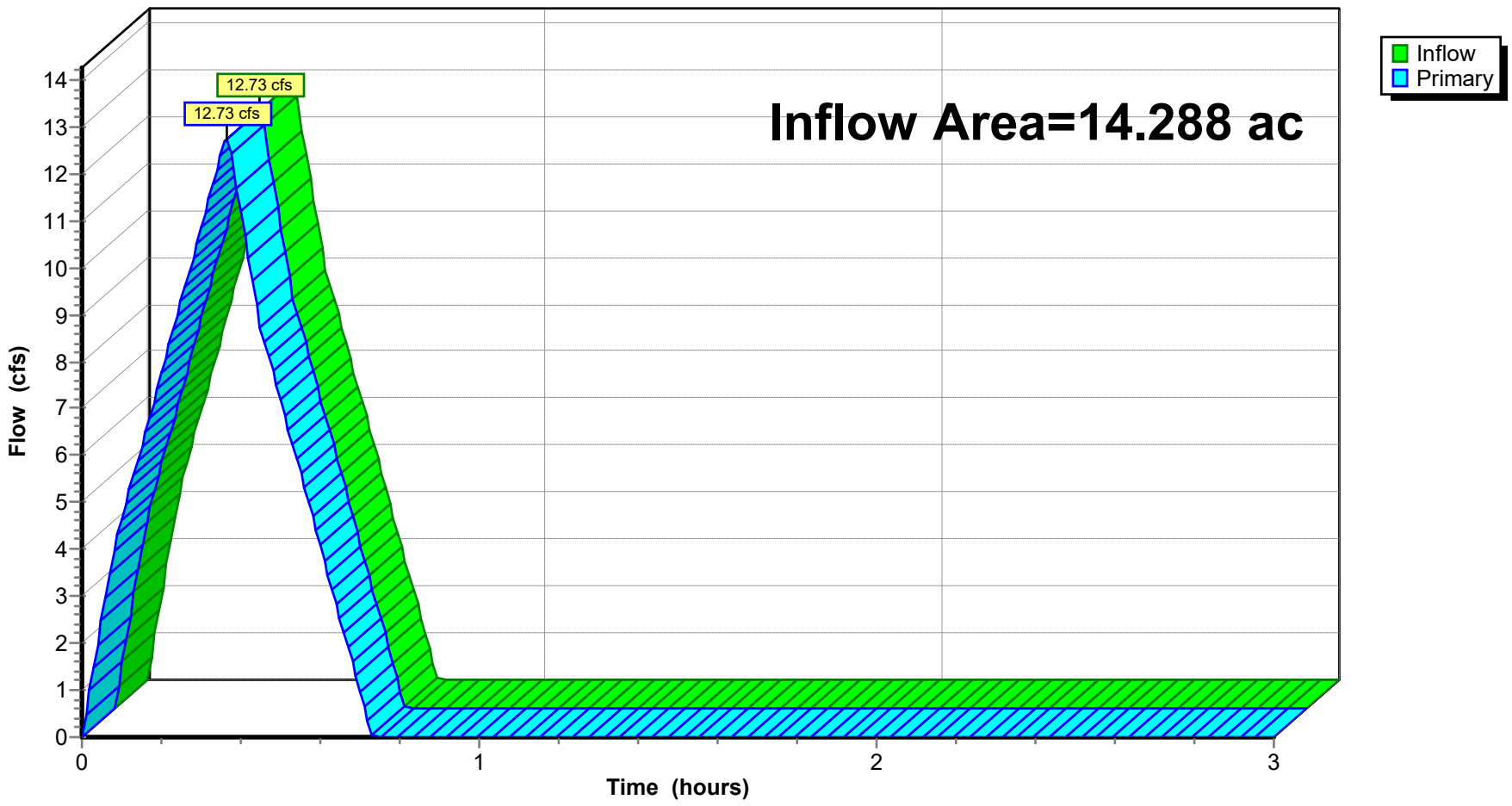
Summary for Link PRE-DEV: Pre-Development

Inflow Area = 14.288 ac, 0.00% Impervious, Inflow Depth = 0.33" for 10-yr event
Inflow = 12.73 cfs @ 0.36 hrs, Volume= 0.389 af
Primary = 12.73 cfs @ 0.36 hrs, Volume= 0.389 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Link PRE-DEV: Pre-Development

Hydrograph



Summary for Subcatchment A1: DRAINAGE BASIN A1

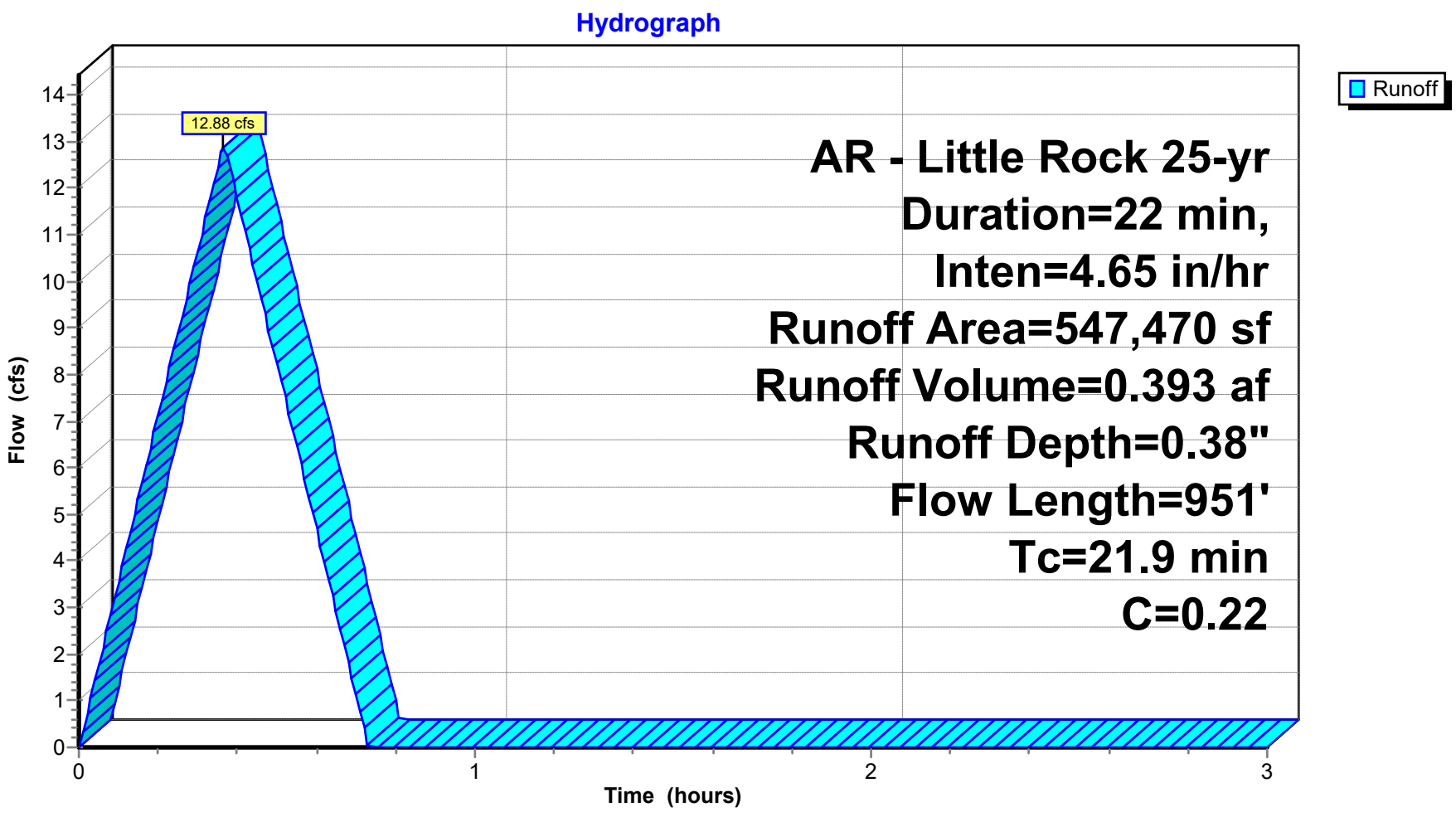
Runoff = 12.88 cfs @ 0.37 hrs, Volume= 0.393 af, Depth= 0.38"
Routed to Link PRE-DEV : Pre-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 25-yr Duration=22 min, Inten=4.65 in/hr

Area (sf)	C	Description
547,470	0.22	Sandy Soil 2-7% per manual (undeveloped)
547,470		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.2	96	0.0840	0.16		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 4.20"
0.7	76	0.0710	1.87		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.7	76	0.0660	1.80		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.4	47	0.0660	1.80		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.3	28	0.0640	1.77		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.2	25	0.0590	1.70		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.8	80	0.0580	1.69		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.2	107	0.0430	1.45		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.7	42	0.0180	0.94		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.7	49	0.0300	1.21		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
2.5	158	0.0220	1.04		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.1	67	0.0200	0.99		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.1	45	0.0100	0.70		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.3	55	0.0100	0.70		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
21.9	951	Total			

Subcatchment A1: DRAINAGE BASIN A1



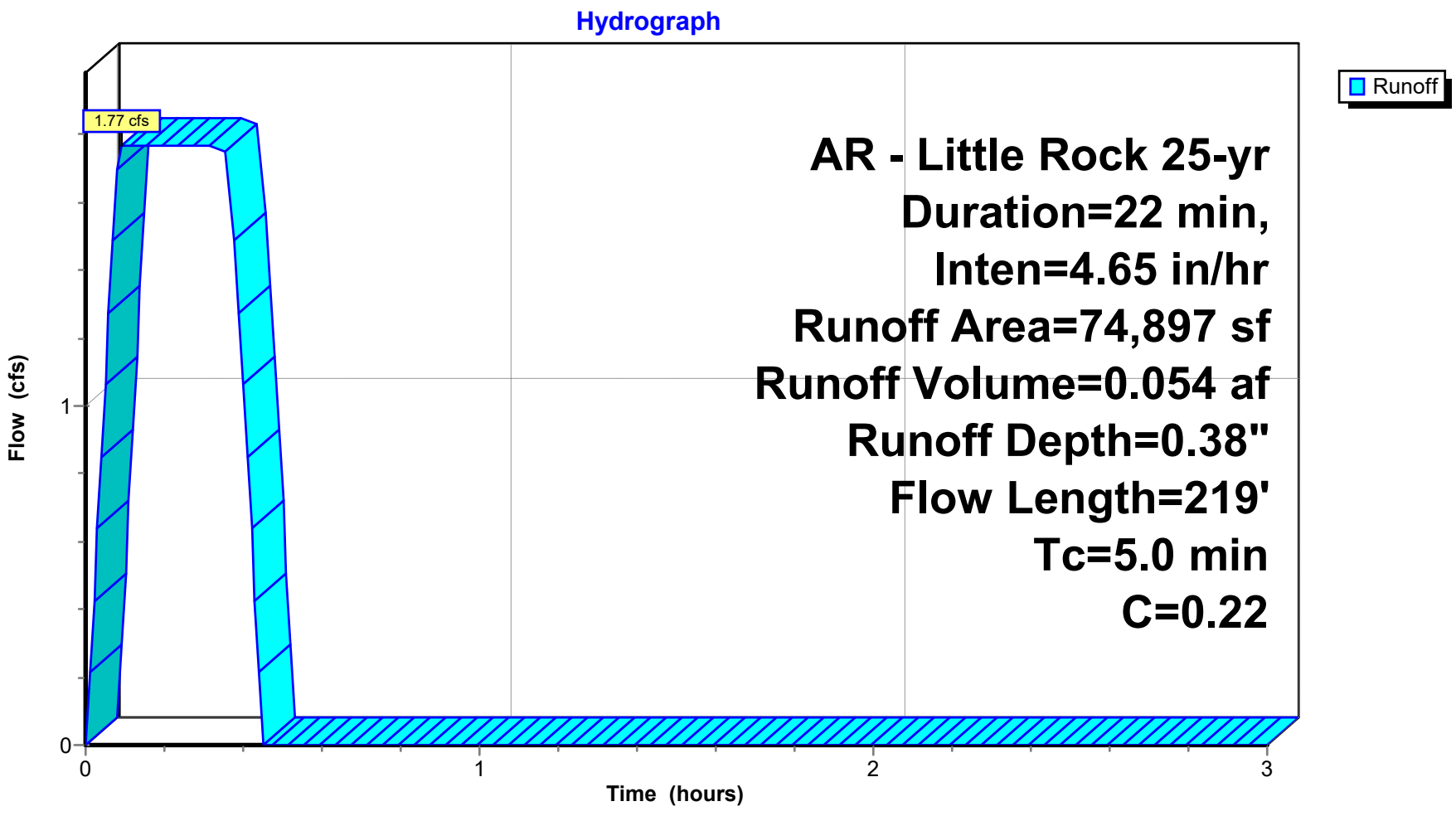
Summary for Subcatchment A2: DRAINAGE BASIN A2

Runoff = 1.77 cfs @ 0.09 hrs, Volume= 0.054 af, Depth= 0.38"
Routed to Link PRE-DEV : Pre-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 25-yr Duration=22 min, Inten=4.65 in/hr

Area (sf)	C	Description
74,897	0.22	2-7% Sandy per LR Manual
74,897		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.2	12	0.0330	1.27		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.9	144	0.0310	1.23		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.3	18	0.0200	0.99		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.6	45	0.0340	1.29		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
2.0					**Direct Entry, min adjustment**
5.0	219	Total			



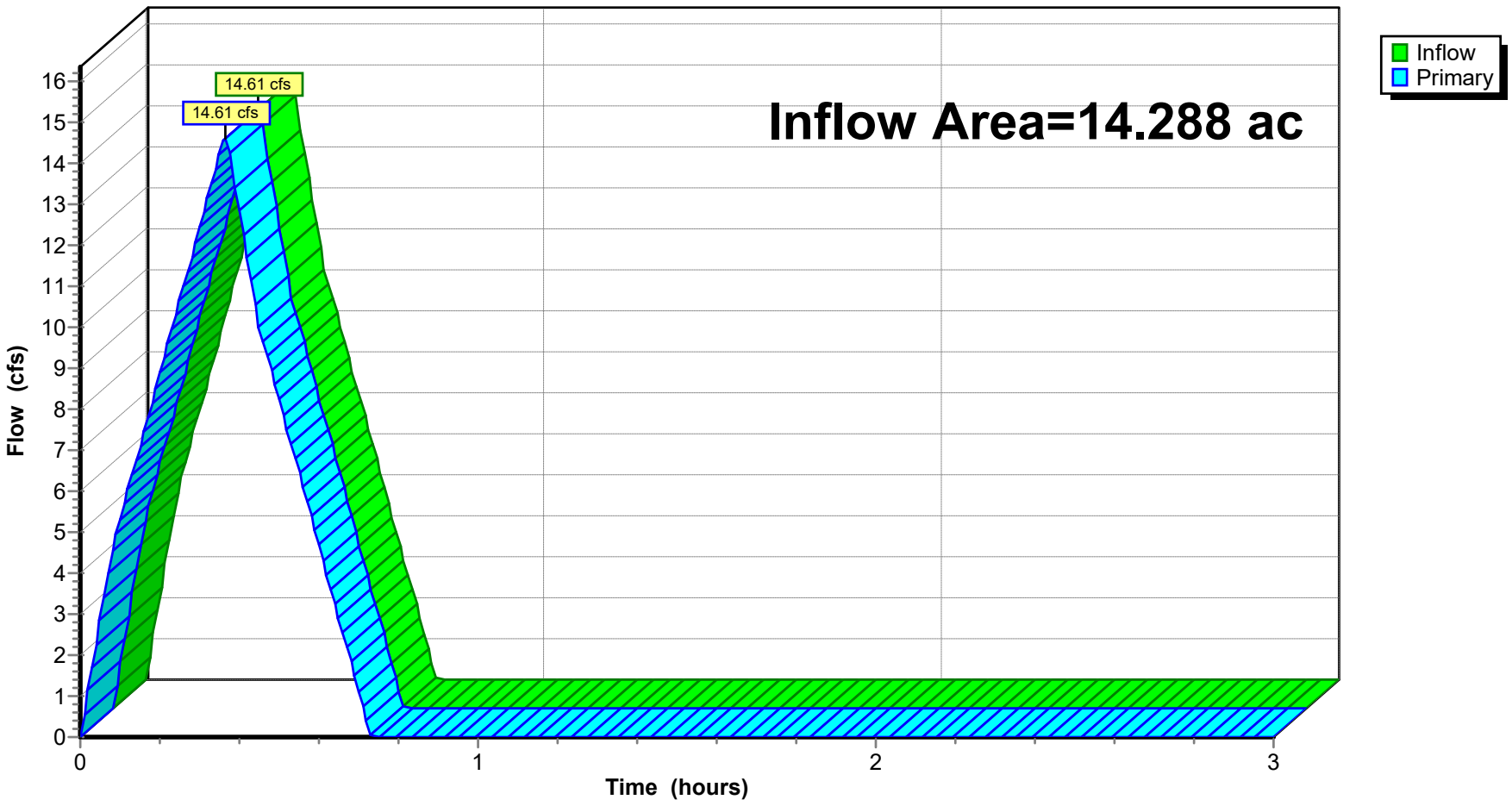
Summary for Link PRE-DEV: Pre-Development

Inflow Area = 14.288 ac, 0.00% Impervious, Inflow Depth = 0.38" for 25-yr event
Inflow = 14.61 cfs @ 0.36 hrs, Volume= 0.447 af
Primary = 14.61 cfs @ 0.36 hrs, Volume= 0.447 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Link PRE-DEV: Pre-Development

Hydrograph



Summary for Subcatchment A1: DRAINAGE BASIN A1

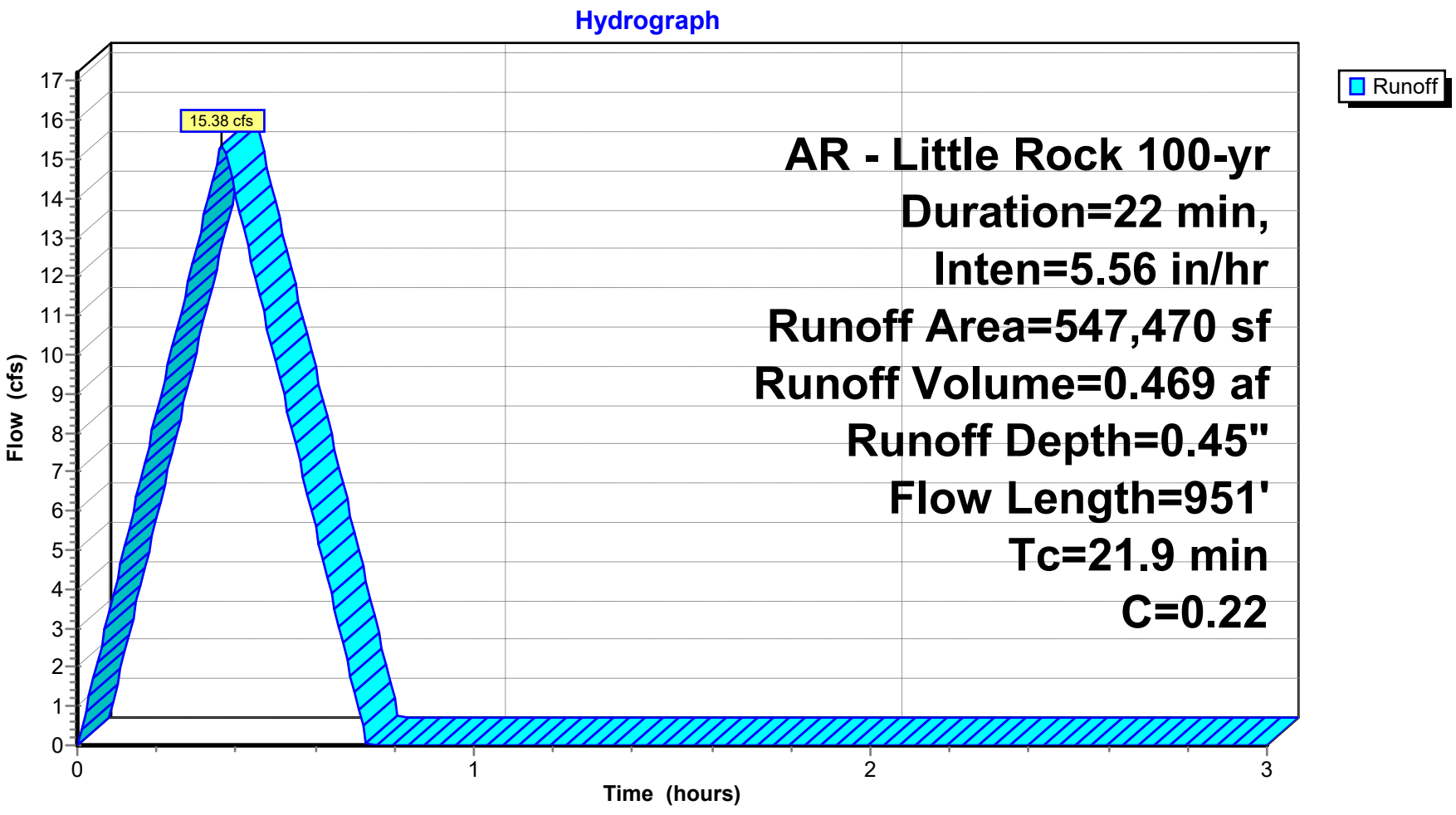
Runoff = 15.38 cfs @ 0.37 hrs, Volume= 0.469 af, Depth= 0.45"
Routed to Link PRE-DEV : Pre-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 100-yr Duration=22 min, Inten=5.56 in/hr

Area (sf)	C	Description
547,470	0.22	Sandy Soil 2-7% per manual (undeveloped)
547,470		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.2	96	0.0840	0.16		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 4.20"
0.7	76	0.0710	1.87		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.7	76	0.0660	1.80		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.4	47	0.0660	1.80		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.3	28	0.0640	1.77		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.2	25	0.0590	1.70		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.8	80	0.0580	1.69		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.2	107	0.0430	1.45		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.7	42	0.0180	0.94		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.7	49	0.0300	1.21		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
2.5	158	0.0220	1.04		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.1	67	0.0200	0.99		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.1	45	0.0100	0.70		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.3	55	0.0100	0.70		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
21.9	951	Total			

Subcatchment A1: DRAINAGE BASIN A1



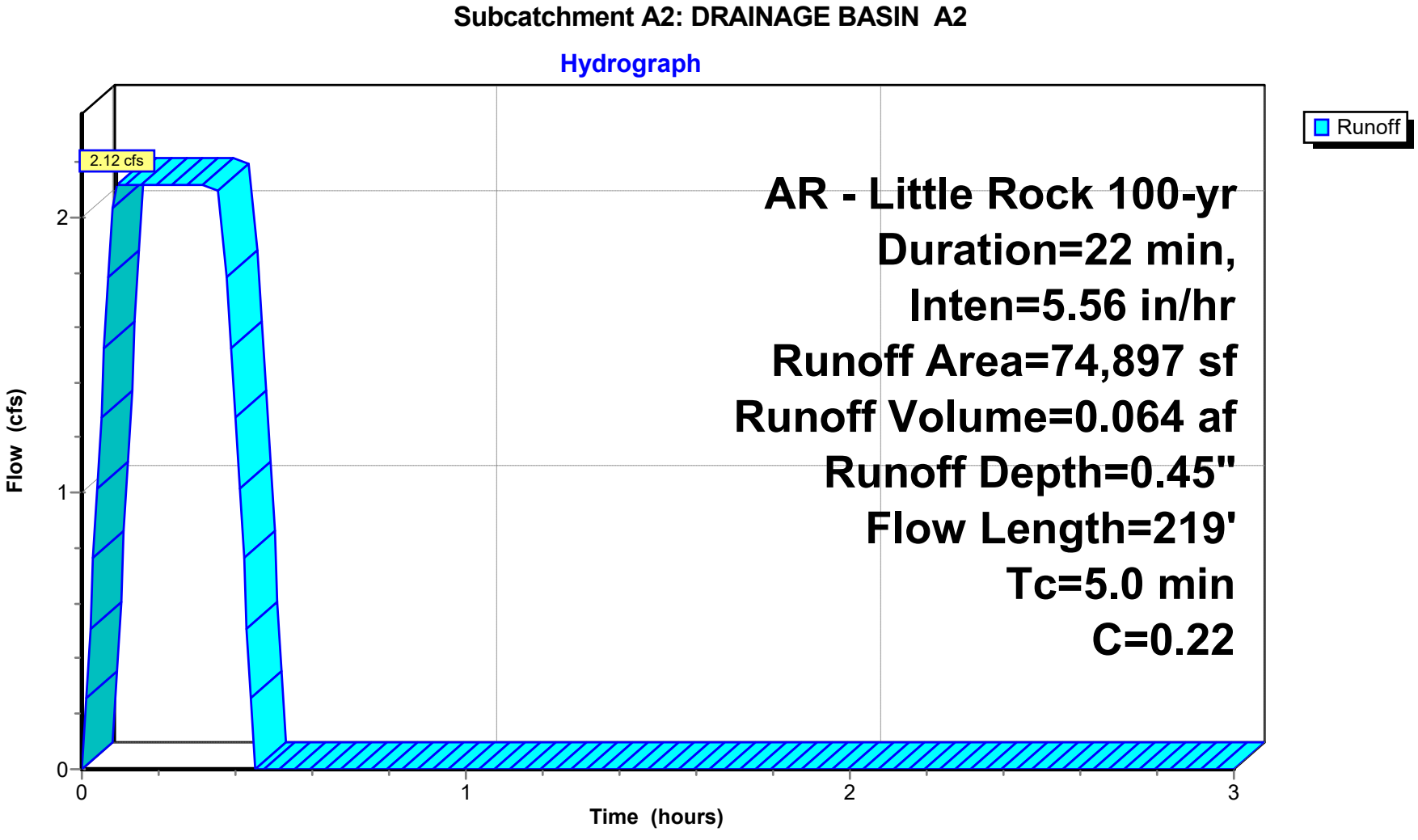
Summary for Subcatchment A2: DRAINAGE BASIN A2

Runoff = 2.12 cfs @ 0.09 hrs, Volume= 0.064 af, Depth= 0.45"
Routed to Link PRE-DEV : Pre-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 100-yr Duration=22 min, Inten=5.56 in/hr

Area (sf)	C	Description
74,897	0.22	2-7% Sandy per LR Manual
74,897		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.2	12	0.0330	1.27		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.9	144	0.0310	1.23		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.3	18	0.0200	0.99		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.6	45	0.0340	1.29		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
2.0					**Direct Entry, min adjustment**
5.0	219	Total			



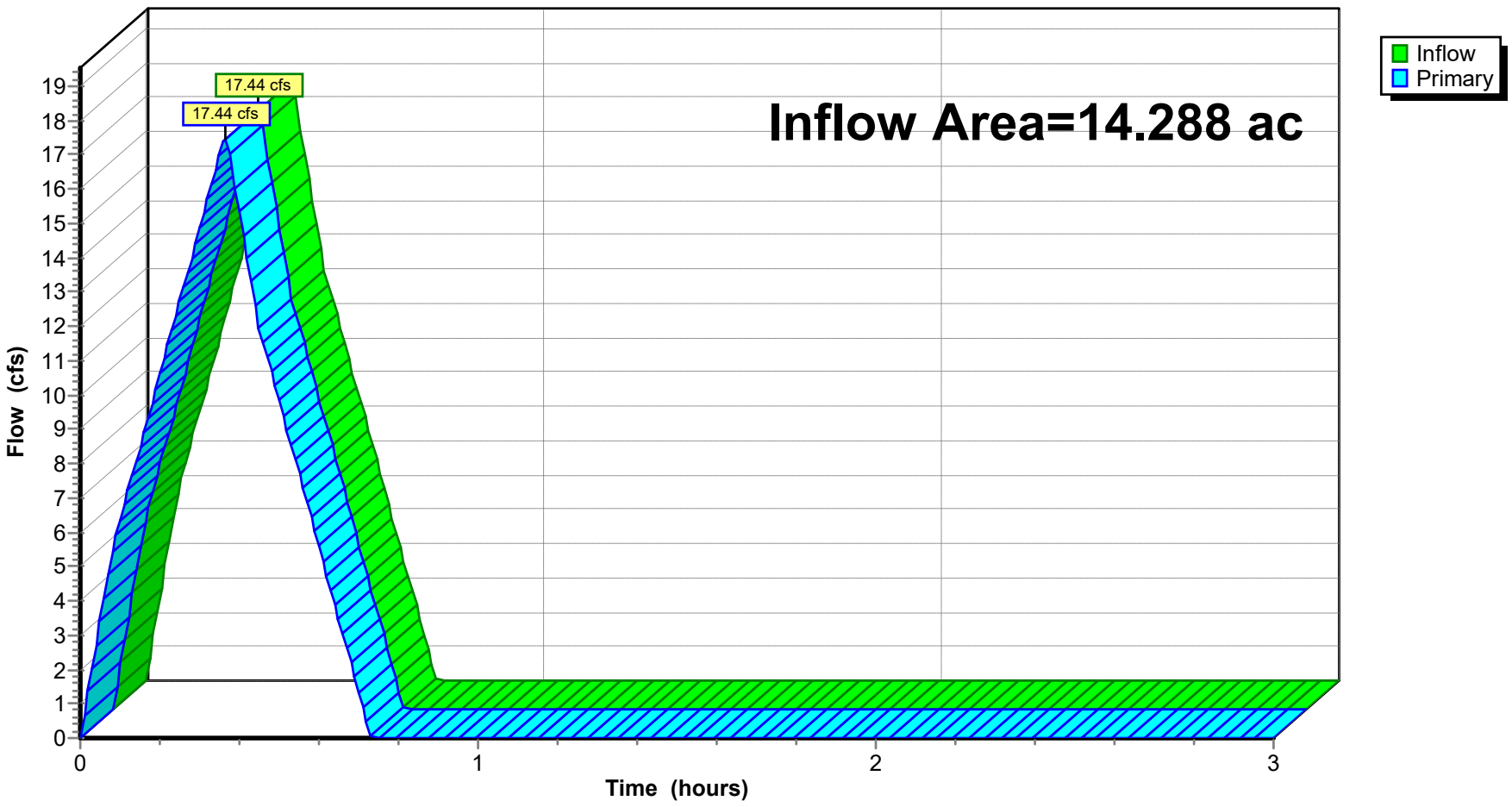
Summary for Link PRE-DEV: Pre-Development

Inflow Area = 14.288 ac, 0.00% Impervious, Inflow Depth = 0.45" for 100-yr event
Inflow = 17.44 cfs @ 0.36 hrs, Volume= 0.533 af
Primary = 17.44 cfs @ 0.36 hrs, Volume= 0.533 af, Atten= 0%, Lag= 0.0 min

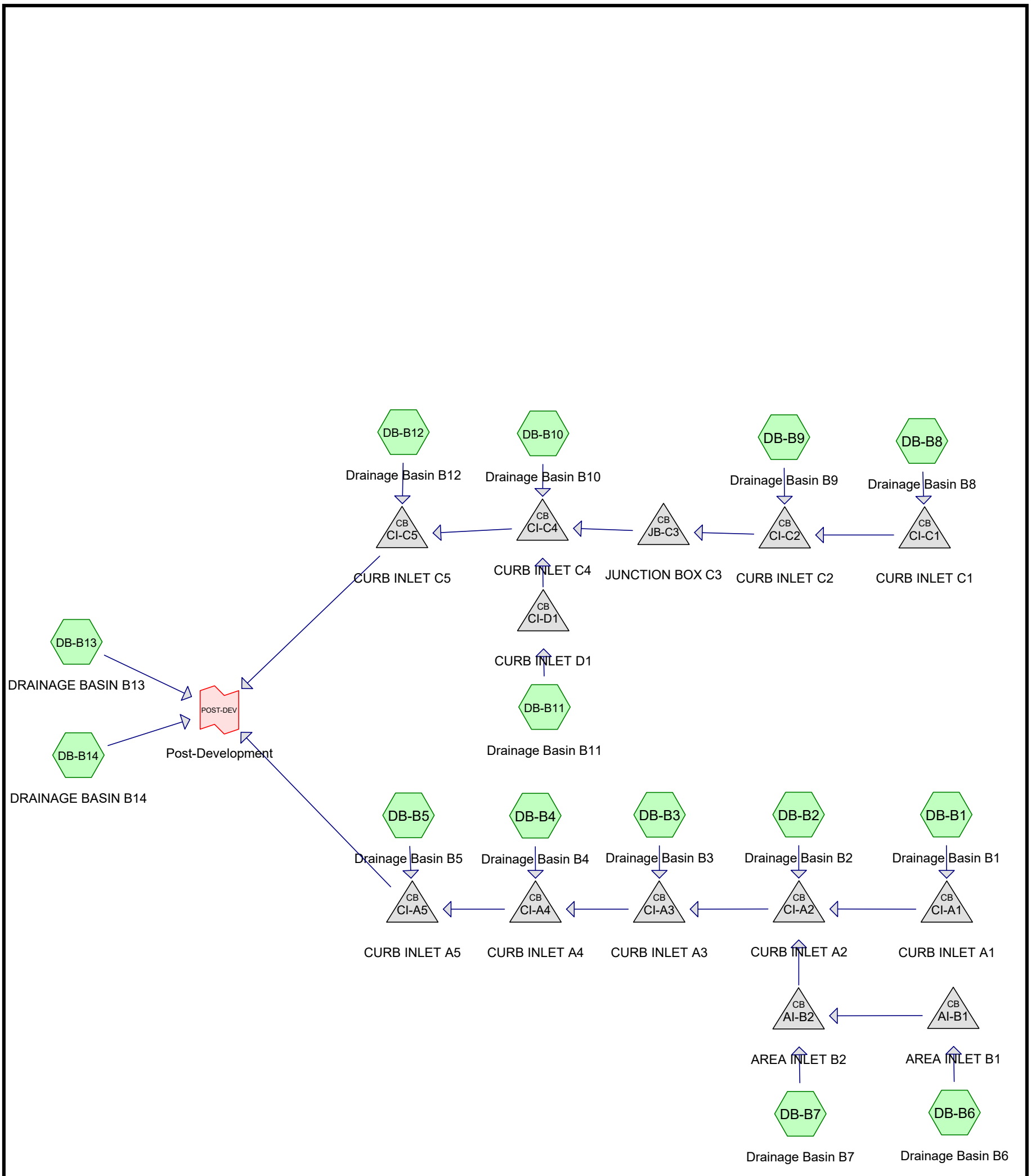
Primary outflow = Inflow, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Link PRE-DEV: Pre-Development

Hydrograph



POST DEVELOPMENT HYDROGRAPHS



Routing Diagram for Seminary Drainage

Prepared by Phillip Lewis Engineering, Printed 10/9/2024

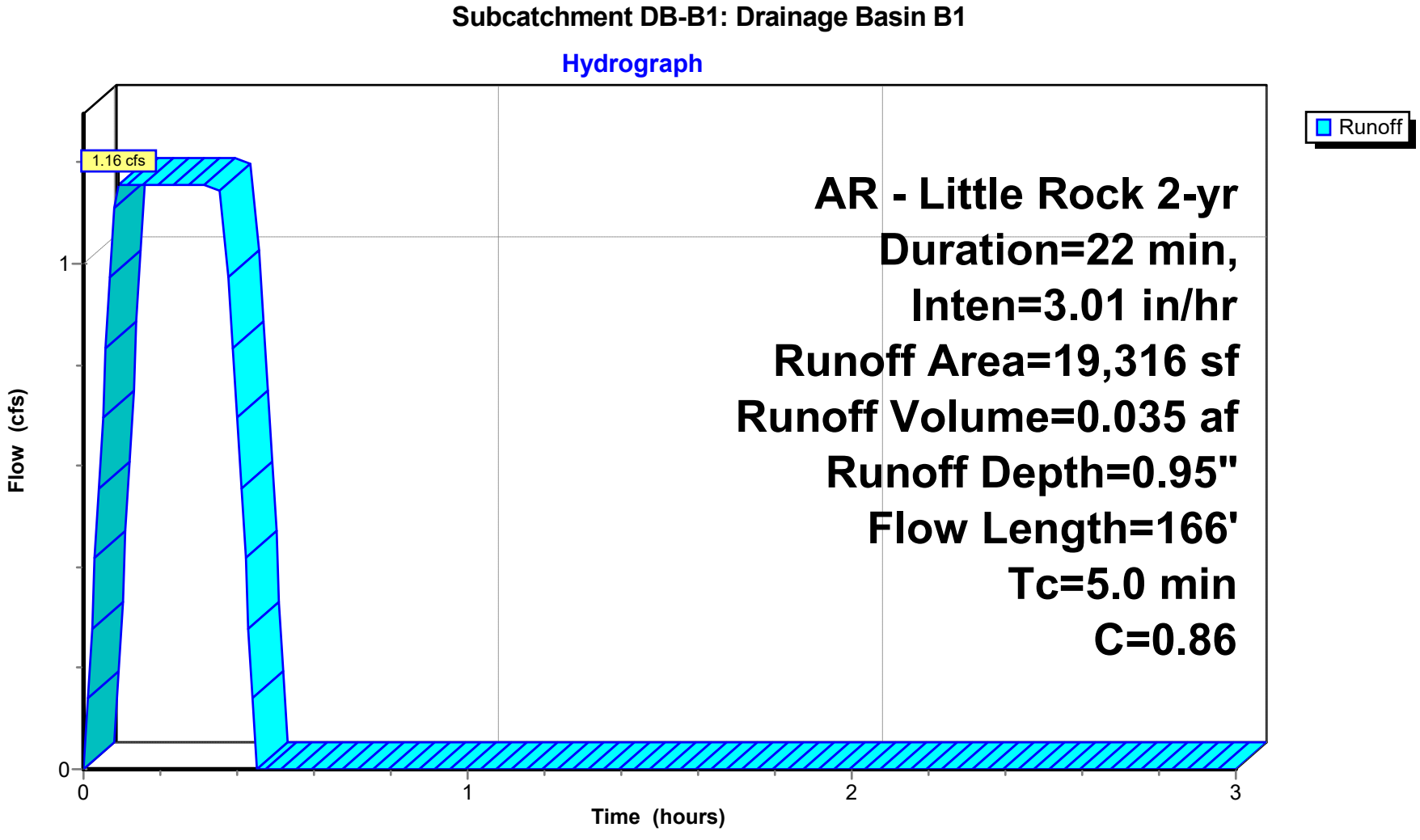
Summary for Subcatchment DB-B1: Drainage Basin B1

Runoff = 1.16 cfs @ 0.09 hrs, Volume= 0.035 af, Depth= 0.95"
Routed to Pond CI-A1 : CURB INLET A1

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 2-yr Duration=22 min, Inten=3.01 in/hr

Area (sf)	C	Description
1,941	0.30	Sandy Soil 2-7% per manual
17,375	0.92	Paved Areas
19,316	0.86	Weighted Average
19,316		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.5	33	0.0200	0.16		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
0.6	67	0.0350	1.82		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.5	66	0.0100	2.03		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
0.4					**Direct Entry, Minimum Adjustment**
5.0	166	Total			



Summary for Subcatchment DB-B10: Drainage Basin B10

Runoff = 0.21 cfs @ 0.09 hrs, Volume= 0.006 af, Depth= 0.85"
Routed to Pond CI-C4 : CURB INLET C4

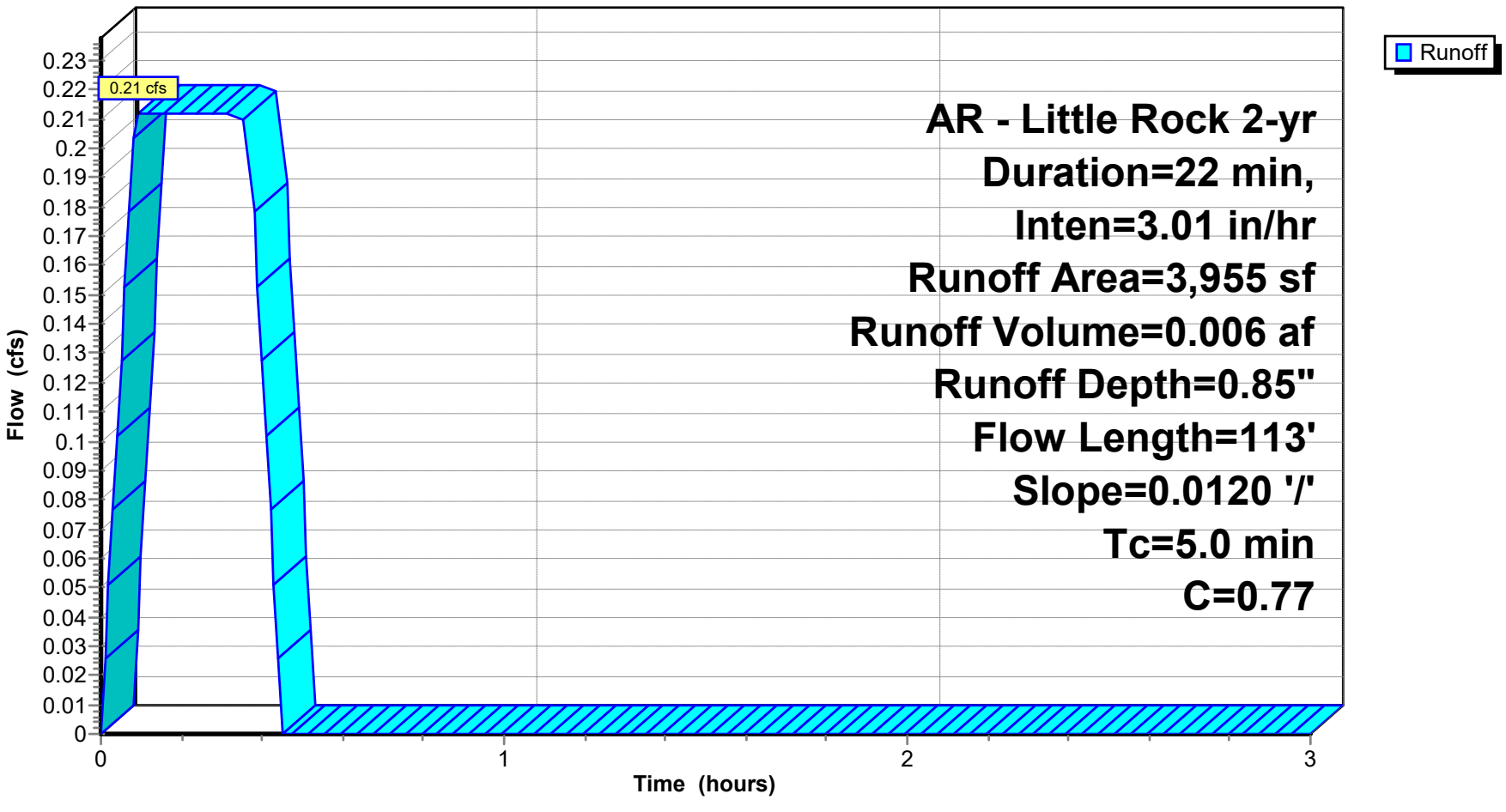
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 2-yr Duration=22 min, Inten=3.01 in/hr

Area (sf)	C	Description
959	0.30	Sandy Soil 2-7% per manual
2,996	0.92	Paved Areas
3,955	0.77	Weighted Average
3,955		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.4	113	0.0120	1.32		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
3.6					**Direct Entry, Minimum Adjustment**
5.0	113	Total			

Subcatchment DB-B10: Drainage Basin B10

Hydrograph



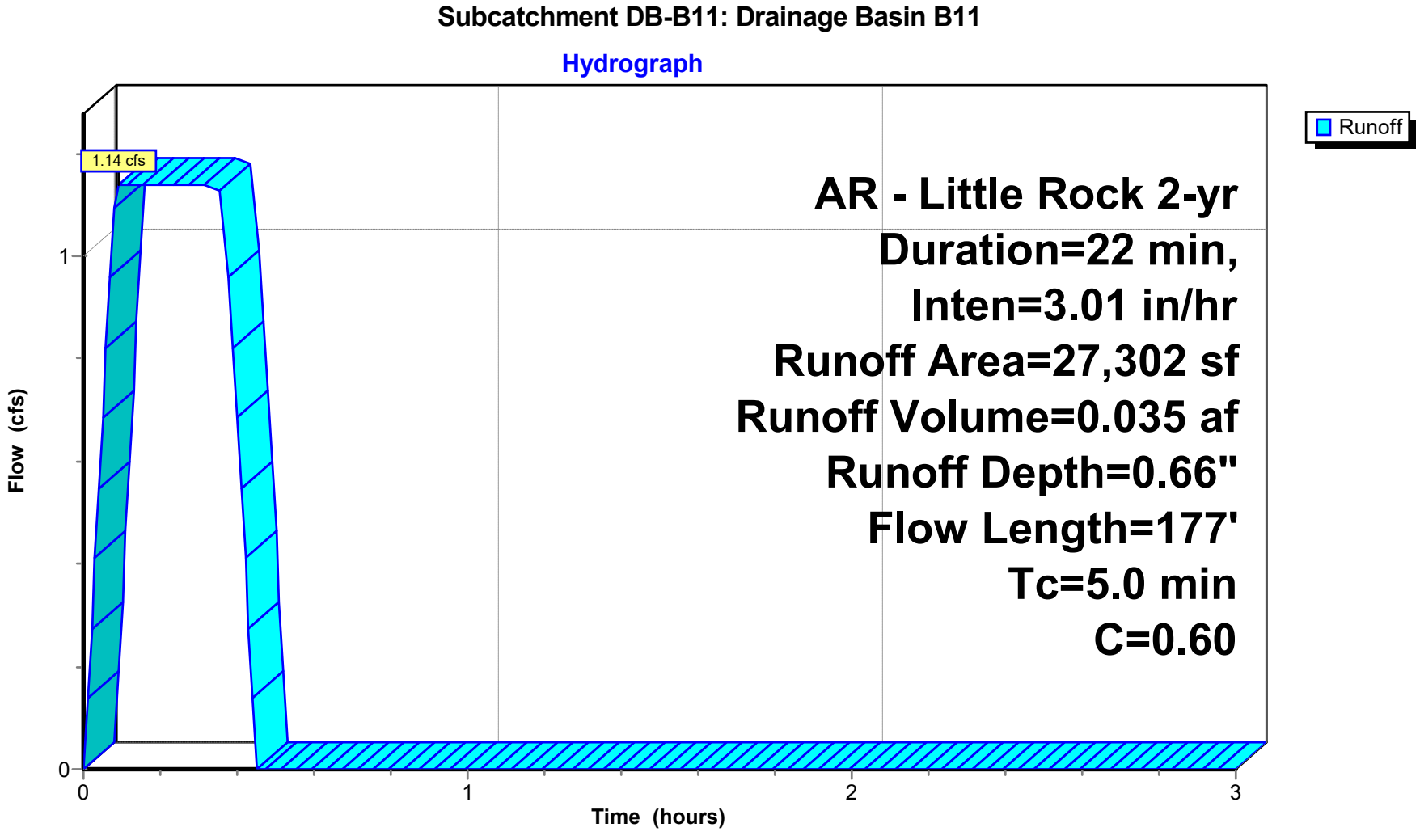
Summary for Subcatchment DB-B11: Drainage Basin B11

Runoff = 1.14 cfs @ 0.09 hrs, Volume= 0.035 af, Depth= 0.66"
Routed to Pond CI-D1 : CURB INLET D1

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 2-yr Duration=22 min, Inten=3.01 in/hr

Area (sf)	C	Description
15,547	0.35	Sandy Soil 2-7% per manual
11,755	0.92	Paved Areas
27,302	0.60	Weighted Average
27,302		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.2	65	0.3300	4.44		**Sheet Flow, Roof** Smooth surfaces n= 0.011 P2= 4.20"
0.2	69	0.1750	6.27		**Shallow Concentrated Flow, Greenspace** Grassed Waterway Kv= 15.0 fps
0.2	43	0.0500	4.54		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
4.4					**Direct Entry, Minimum Adjustment**
5.0	177	Total			



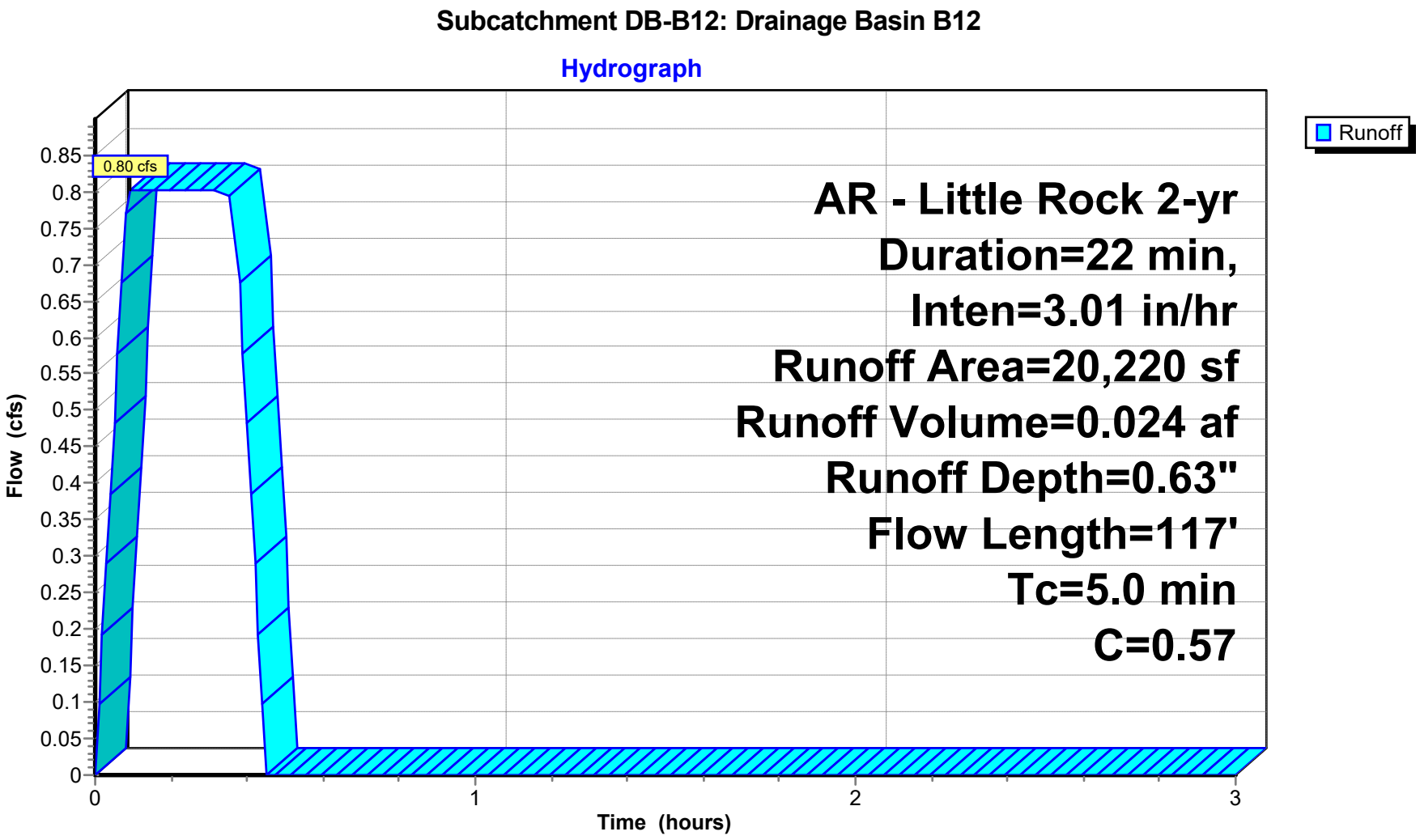
Summary for Subcatchment DB-B12: Drainage Basin B12

Runoff = 0.80 cfs @ 0.09 hrs, Volume= 0.024 af, Depth= 0.63"
Routed to Pond CI-C5 : CURB INLET C5

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 2-yr Duration=22 min, Inten=3.01 in/hr

Area (sf)	C	Description
11,502	0.30	Sandy Soil 2-7% per manual
8,718	0.92	Paved Areas
20,220	0.57	Weighted Average
20,220		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.0	26	0.0500	0.21		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
1.5	38	0.2360	0.43		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
1.1	28	0.2390	0.41		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
0.4	25	0.0180	1.15		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
5.0	117	Total			



Summary for Subcatchment DB-B13: DRAINAGE BASIN B13

Runoff = 3.75 cfs @ 0.37 hrs, Volume= 0.115 af, Depth= 0.15"
Routed to Link POST-DEV : Post-Development

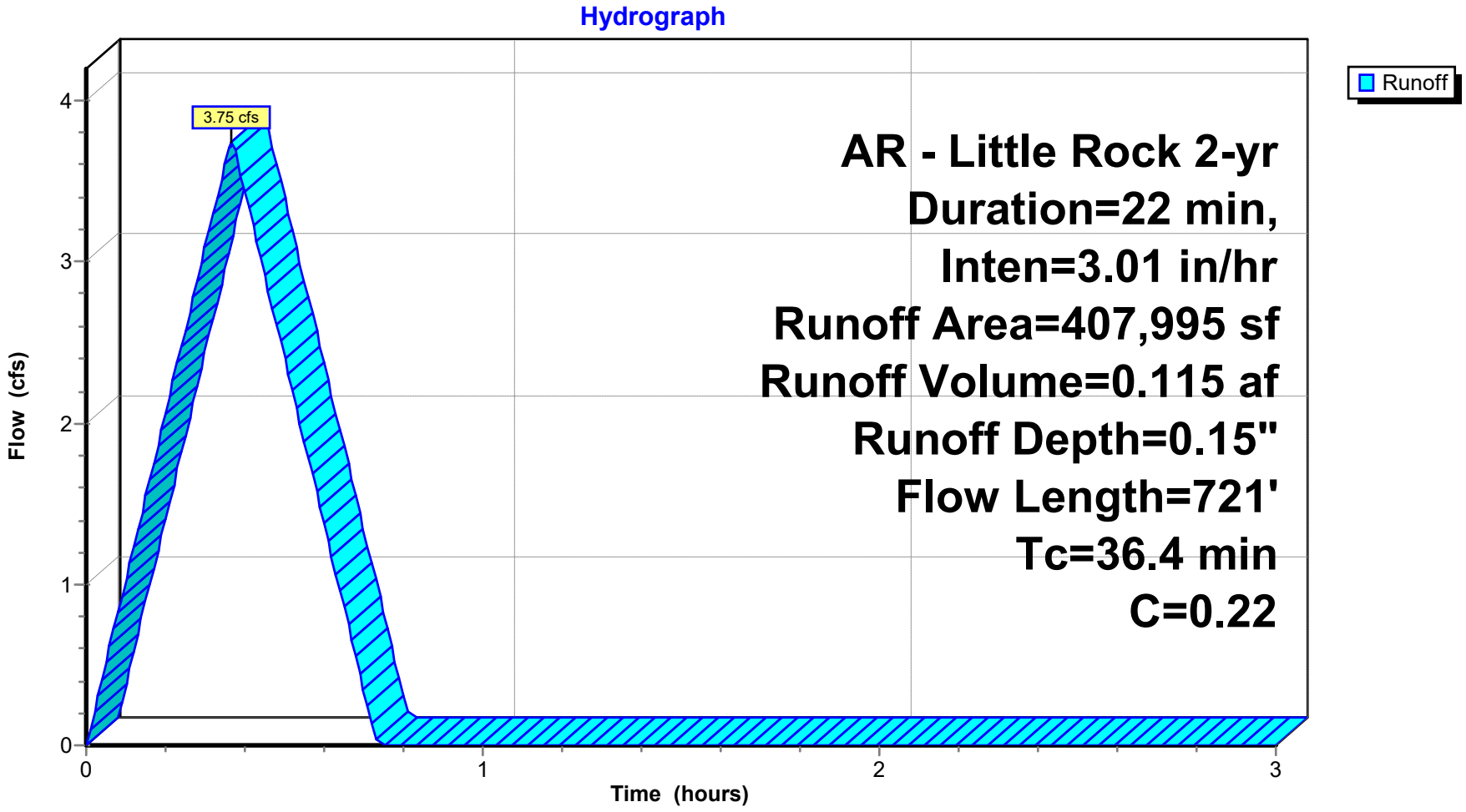
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 2-yr Duration=22 min, Inten=3.01 in/hr

Area (sf)	C	Description
407,995	0.22	Sandy Soil 2-7% Per Manual
407,995		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.5	67	0.6600	0.73		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
1.2	46	0.5900	0.65		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
3.2	147	0.5100	0.77		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
1.8	63	0.3800	0.58		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
8.5	70	0.0100	0.14		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
4.8	163	0.2200	0.56		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
2.4	65	0.2000	0.45		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
6.3	48	0.0100	0.13		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
6.7	52	0.0100	0.13		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
36.4	721	Total			

Subcatchment DB-B13: DRAINAGE BASIN B13

Hydrograph



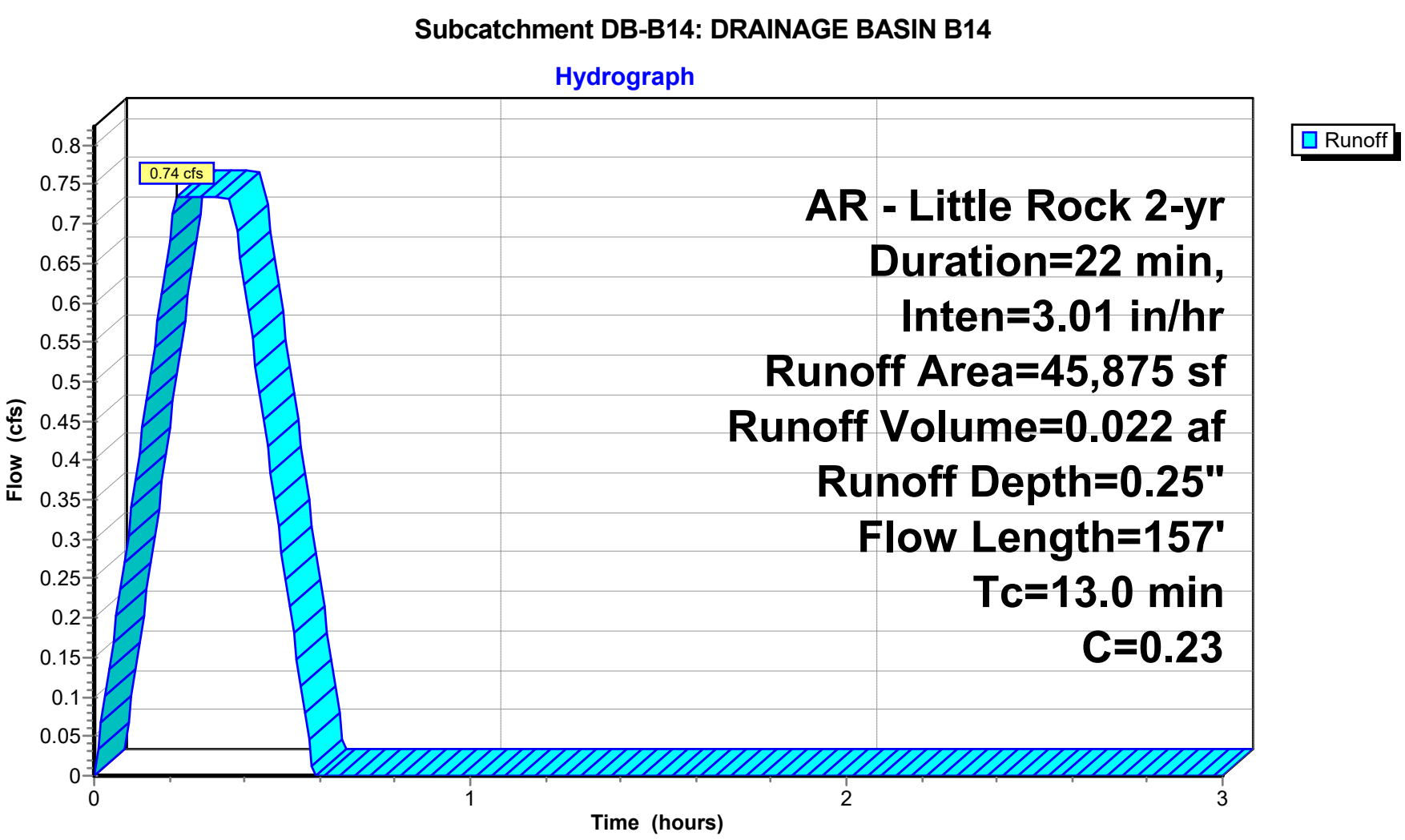
Summary for Subcatchment DB-B14: DRAINAGE BASIN B14

Runoff = 0.74 cfs @ 0.22 hrs, Volume= 0.022 af, Depth= 0.25"
Routed to Link POST-DEV : Post-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 2-yr Duration=22 min, Inten=3.01 in/hr

Area (sf)	C	Description
45,016	0.22	Sandy Soil 2-7% Per Manual
859	0.92	Paved Areas
45,875	0.23	Weighted Average
45,875		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.5	15	0.0100	0.10		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
5.2	78	0.0420	0.25		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
2.8	38	0.0480	0.23		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
2.5	26	0.0280	0.17		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
13.0	157	Total			



Summary for Subcatchment DB-B2: Drainage Basin B2

Runoff = 1.13 cfs @ 0.15 hrs, Volume= 0.034 af, Depth= 0.71"
Routed to Pond CI-A2 : CURB INLET A2

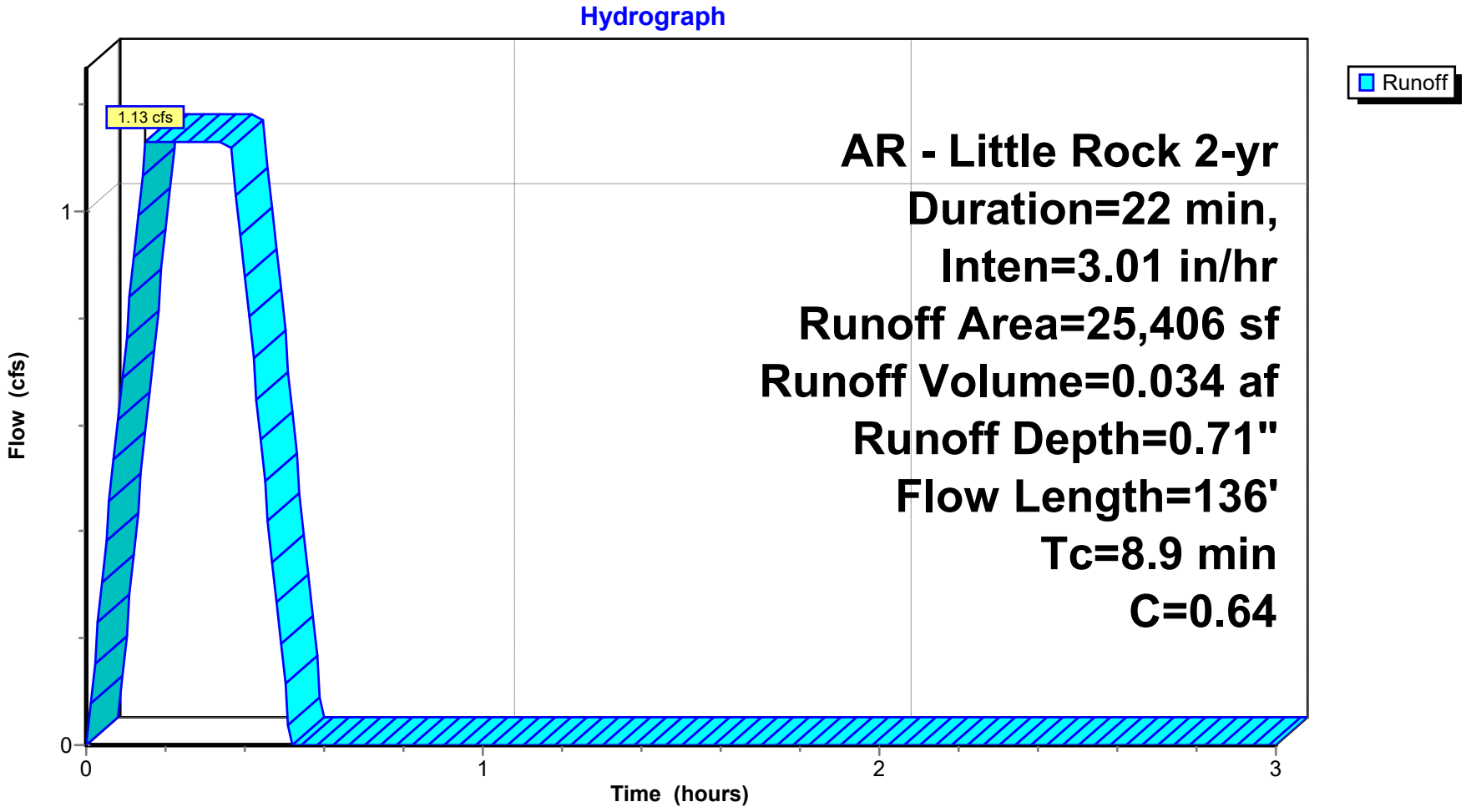
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 2-yr Duration=22 min, Inten=3.01 in/hr

Area (sf)	C	Description
11,388	0.30	Sandy Soil 2-7% per manual
14,018	0.92	Paved Areas
25,406	0.64	Weighted Average
25,406		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	57	0.0100	0.13		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
0.8	19	0.2480	0.38		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
0.2	14	0.0150	0.95		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.3	34	0.0600	1.97		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.2	12	0.0350	1.29		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.2					**Direct Entry, Minimum Adjustment**
8.9	136	Total			

Subcatchment DB-B2: Drainage Basin B2

Hydrograph



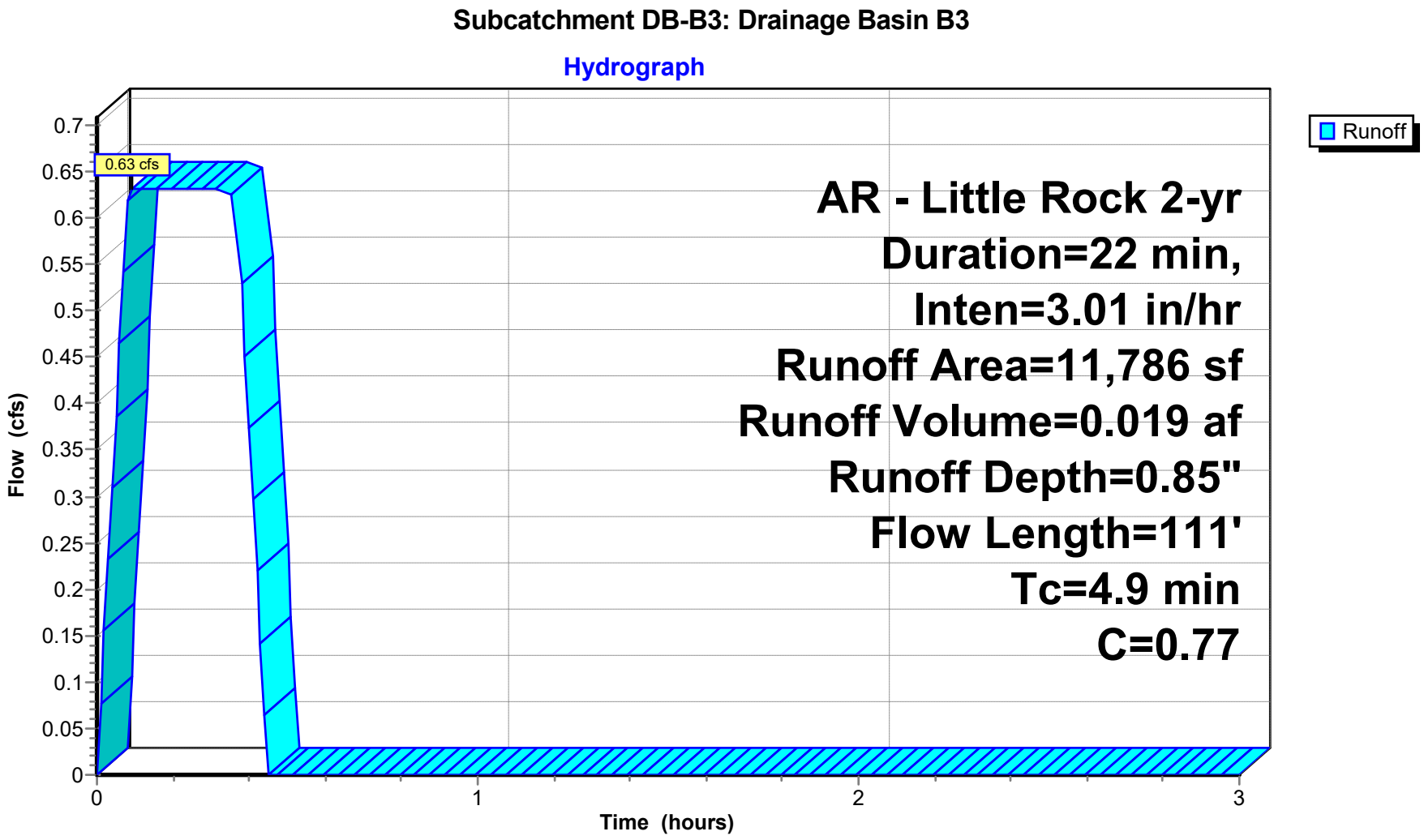
Summary for Subcatchment DB-B3: Drainage Basin B3

Runoff = 0.63 cfs @ 0.09 hrs, Volume= 0.019 af, Depth= 0.85"
Routed to Pond CI-A3 : CURB INLET A3

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 2-yr Duration=22 min, Inten=3.01 in/hr

Area (sf)	C	Description
2,920	0.30	Sandy Soil 2-7% per manual
8,866	0.92	Paved Areas
11,786	0.77	Weighted Average
11,786		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	19	0.2500	0.38		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
0.2	16	0.0290	1.27		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.6	38	0.0100	0.98		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.3	38	0.0100	2.03		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
3.0					**Direct Entry, Minimum Adjustment**
4.9	111	Total			



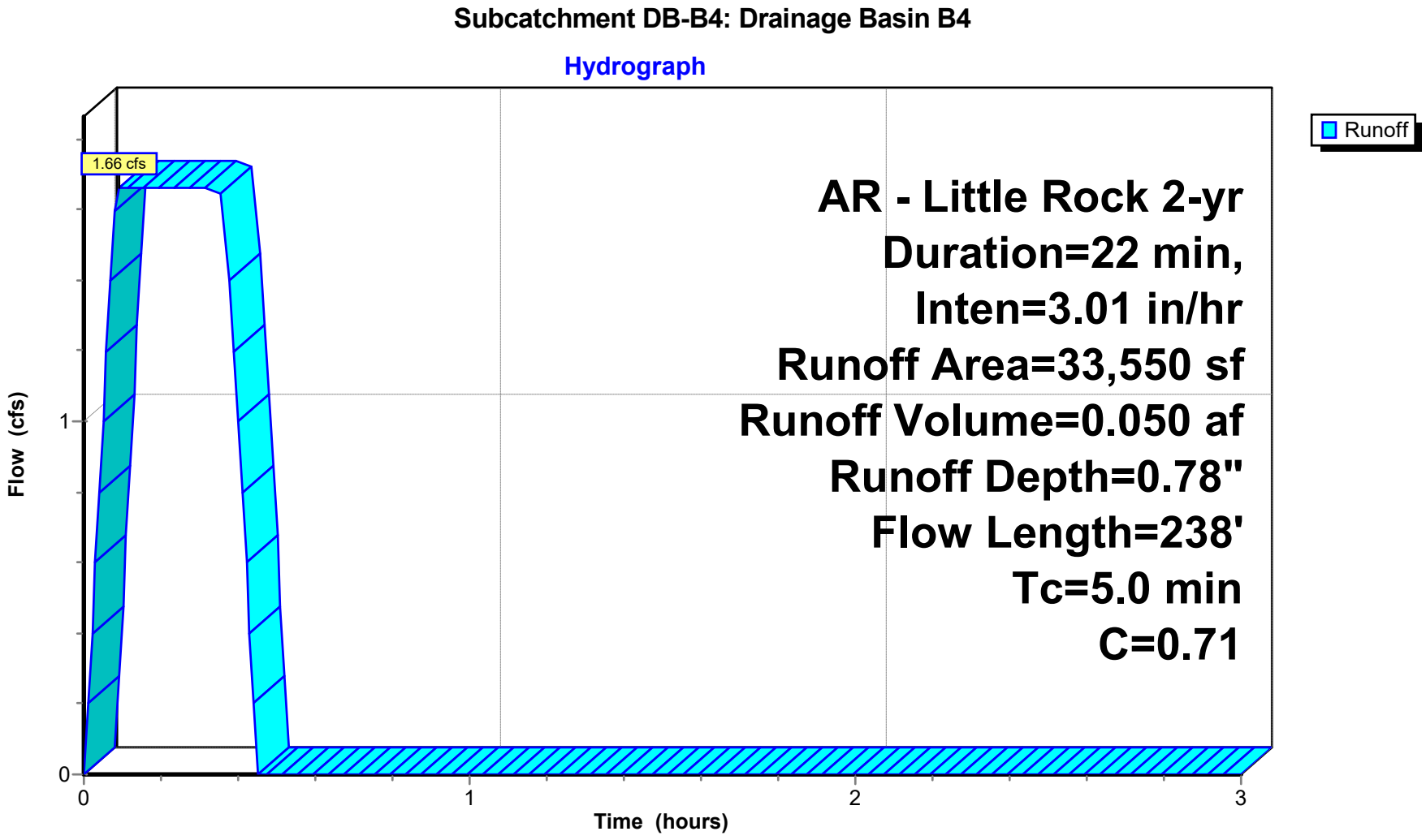
Summary for Subcatchment DB-B4: Drainage Basin B4

Runoff = 1.66 cfs @ 0.09 hrs, Volume= 0.050 af, Depth= 0.78"
Routed to Pond CI-A4 : CURB INLET A4

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 2-yr Duration=22 min, Inten=3.01 in/hr

Area (sf)	C	Description
11,568	0.30	Sandy Soil 2-7% per manual
21,982	0.92	Paved Areas
33,550	0.71	Weighted Average
33,550		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.4	48	0.0530	2.01		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.3	25	0.0310	1.42		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.6	14	0.0020	0.42		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.9	66	0.0130	1.22		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.4	59	0.0120	2.22		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
0.5	19	0.0010	0.64		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
0.0	7	0.0700	5.37		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
1.9					**Direct Entry, Minimum Adjustment**
5.0	238	Total			



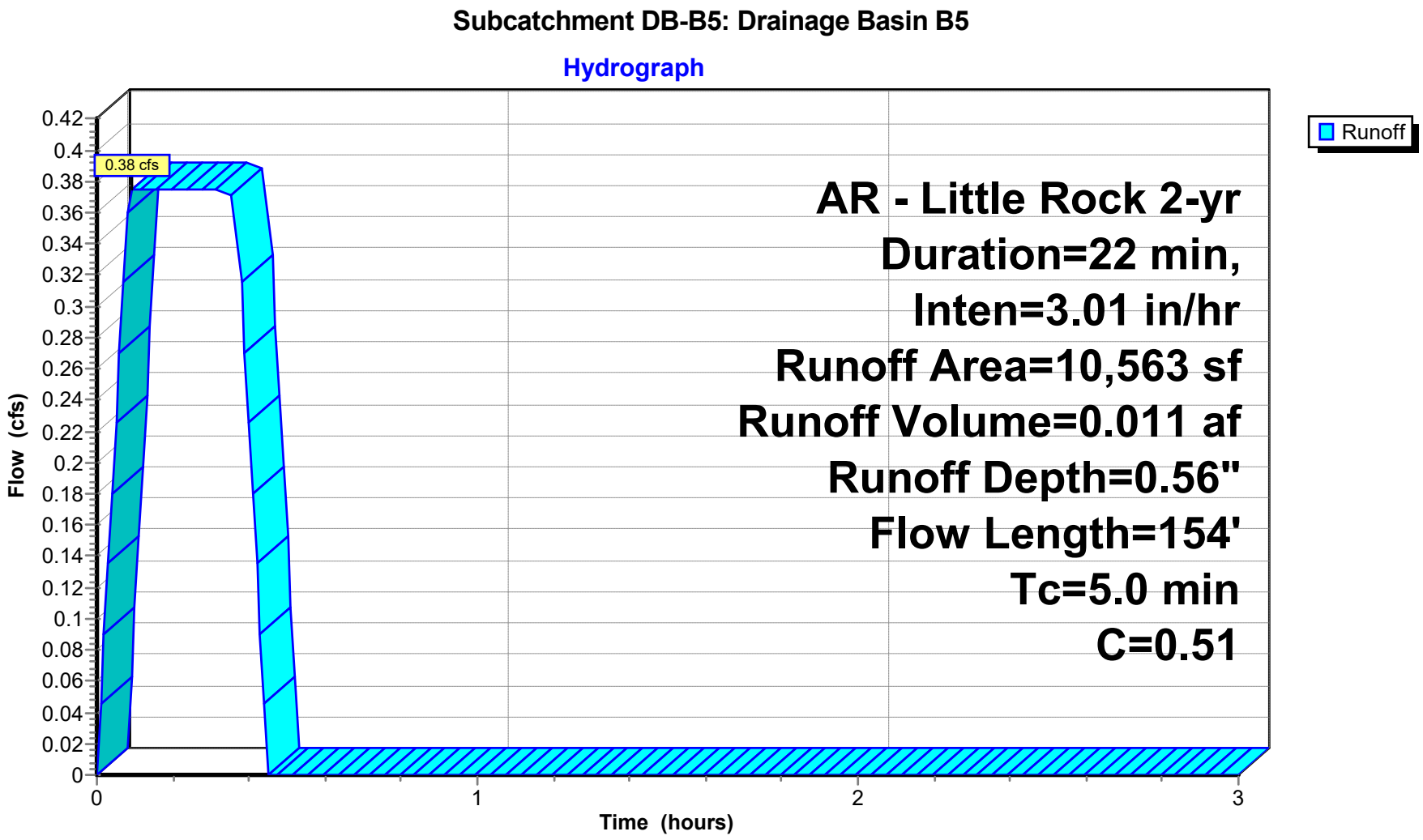
Summary for Subcatchment DB-B5: Drainage Basin B5

Runoff = 0.38 cfs @ 0.09 hrs, Volume= 0.011 af, Depth= 0.56"
Routed to Pond CI-A5 : CURB INLET A5

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 2-yr Duration=22 min, Inten=3.01 in/hr

Area (sf)	C	Description
6,980	0.30	Sandy Soil 2-7% per manual
3,583	0.92	Paved Areas
10,563	0.51	Weighted Average
10,563		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.2	19	0.0920	0.26		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
1.9	39	0.1260	0.34		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
0.5	66	0.0540	2.16		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.1	30	0.0500	4.54		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
1.3					**Direct Entry, Minimum Adjustment**
5.0	154	Total			



Summary for Subcatchment DB-B6: Drainage Basin B6

Runoff = 0.12 cfs @ 0.09 hrs, Volume= 0.004 af, Depth= 1.01"
Routed to Pond AI-B1 : AREA INLET B1

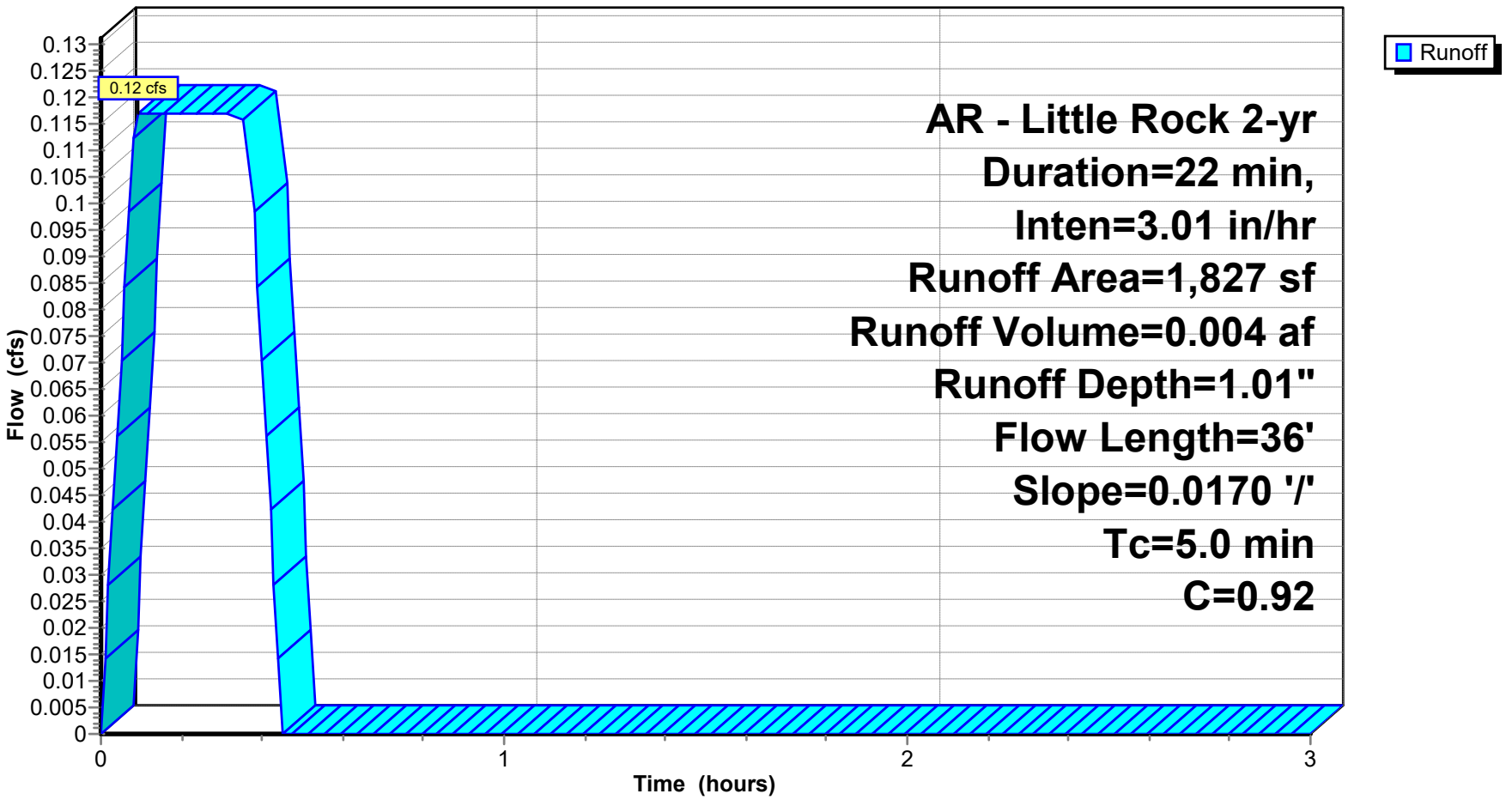
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 2-yr Duration=22 min, Inten=3.01 in/hr

Area (sf)	C	Description
0	0.30	Sandy Soil 2-7% per manual
1,827	0.92	Paved Areas
1,827	0.92	Weighted Average
1,827		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.5	36	0.0170	1.20		**Sheet Flow, Concrete** Smooth surfaces n= 0.011 P2= 4.20"
4.5					**Direct Entry, Minimum Adjustment**
5.0	36	Total			

Subcatchment DB-B6: Drainage Basin B6

Hydrograph



Summary for Subcatchment DB-B7: Drainage Basin B7

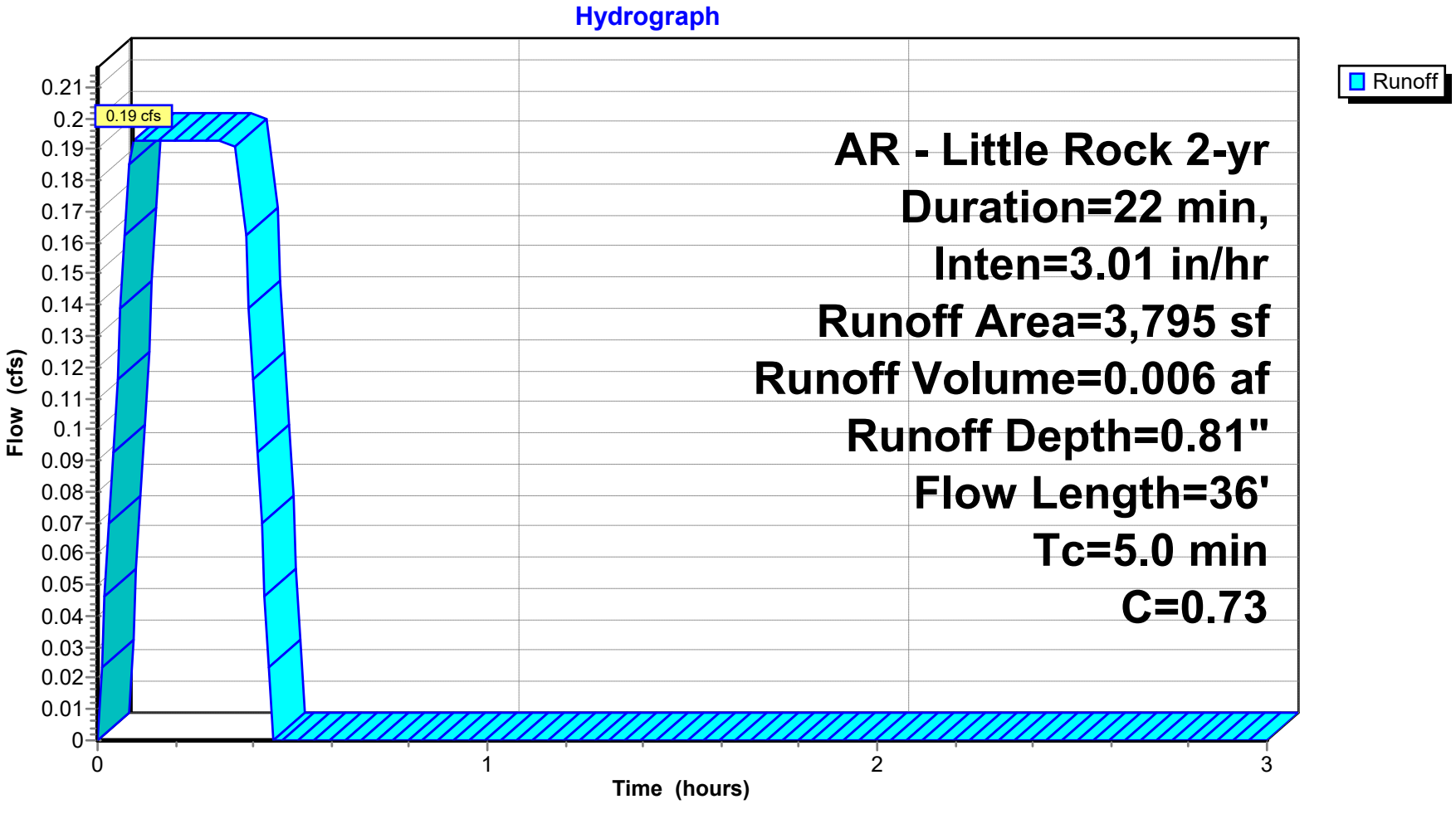
Runoff = 0.19 cfs @ 0.09 hrs, Volume= 0.006 af, Depth= 0.81"
Routed to Pond AI-B2 : AREA INLET B2

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 2-yr Duration=22 min, Inten=3.01 in/hr

Area (sf)	C	Description
1,158	0.30	Sandy Soil 2-7% per manual
2,637	0.92	Paved Areas
3,795	0.73	Weighted Average
3,795		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	24	0.0020	0.47		**Sheet Flow, Concrete** Smooth surfaces n= 0.011 P2= 4.20"
0.2	12	0.0160	0.94		**Sheet Flow, Concrete** Smooth surfaces n= 0.011 P2= 4.20"
4.0					**Direct Entry, Minimum Adjustment**
5.0	36	Total			

Subcatchment DB-B7: Drainage Basin B7



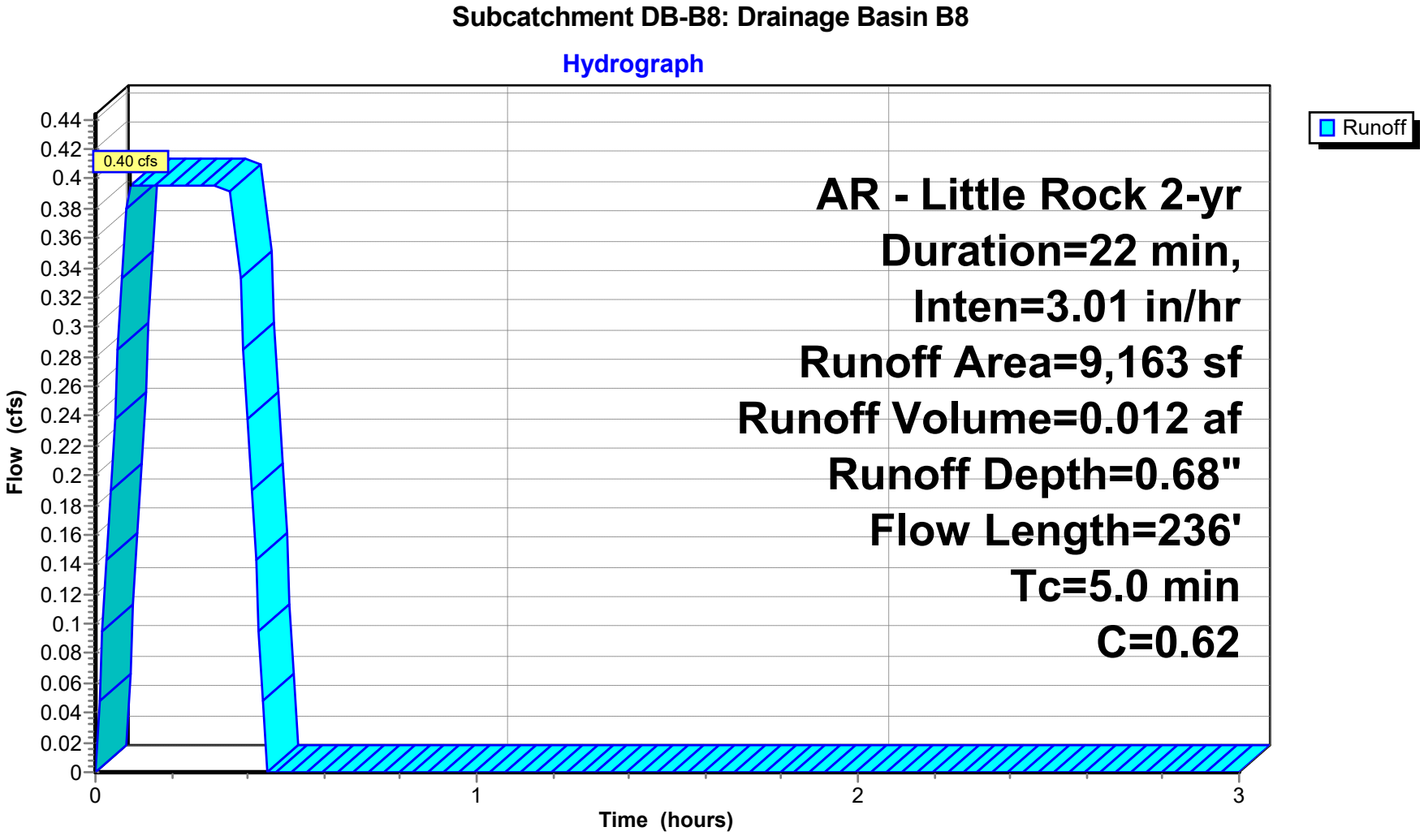
Summary for Subcatchment DB-B8: Drainage Basin B8

Runoff = 0.40 cfs @ 0.09 hrs, Volume= 0.012 af, Depth= 0.68"
Routed to Pond CI-C1 : CURB INLET C1

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 2-yr Duration=22 min, Inten=3.01 in/hr

Area (sf)	C	Description
4,431	0.30	Sadny Soil 2-7% per manual
4,732	0.92	Paved Areas
9,163	0.62	Weighted Average
9,163		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.4	33	0.0210	1.29		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.6	91	0.0620	2.43		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.8	112	0.0490	2.31		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
3.2					**Direct Entry, Minimum Adjustment**
5.0	236	Total			



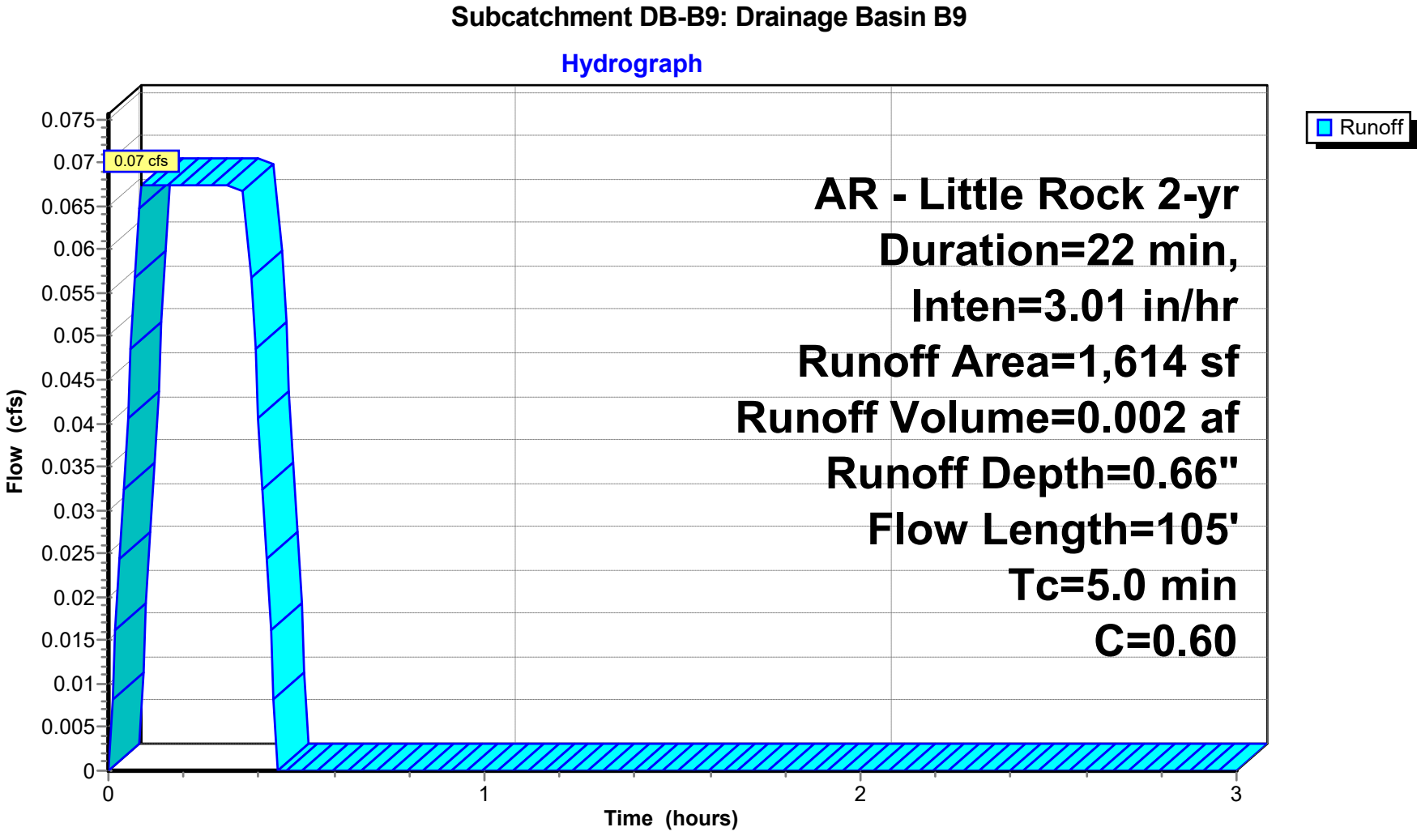
Summary for Subcatchment DB-B9: Drainage Basin B9

Runoff = 0.07 cfs @ 0.09 hrs, Volume= 0.002 af, Depth= 0.66"
Routed to Pond CI-C2 : CURB INLET C2

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 2-yr Duration=22 min, Inten=3.01 in/hr

Area (sf)	C	Description
826	0.30	Sandy Soil 2-7% per manual
788	0.92	Paved Areas
1,614	0.60	Weighted Average
1,614		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.0	62	0.0100	1.09		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.0	8	0.0230	3.08		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
0.2	35	0.0140	2.40		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
3.8					**Direct Entry, Minimum Adjustment**
5.0	105	Total			



Summary for Pond AI-B1: AREA INLET B1

Inflow Area = 0.042 ac, 0.00% Impervious, Inflow Depth = 1.01" for 2-yr event
Inflow = 0.12 cfs @ 0.09 hrs, Volume= 0.004 af
Outflow = 0.12 cfs @ 0.10 hrs, Volume= 0.004 af, Atten= 0%, Lag= 0.6 min
Primary = 0.12 cfs @ 0.10 hrs, Volume= 0.004 af
Routed to Pond AI-B2 : AREA INLET B2

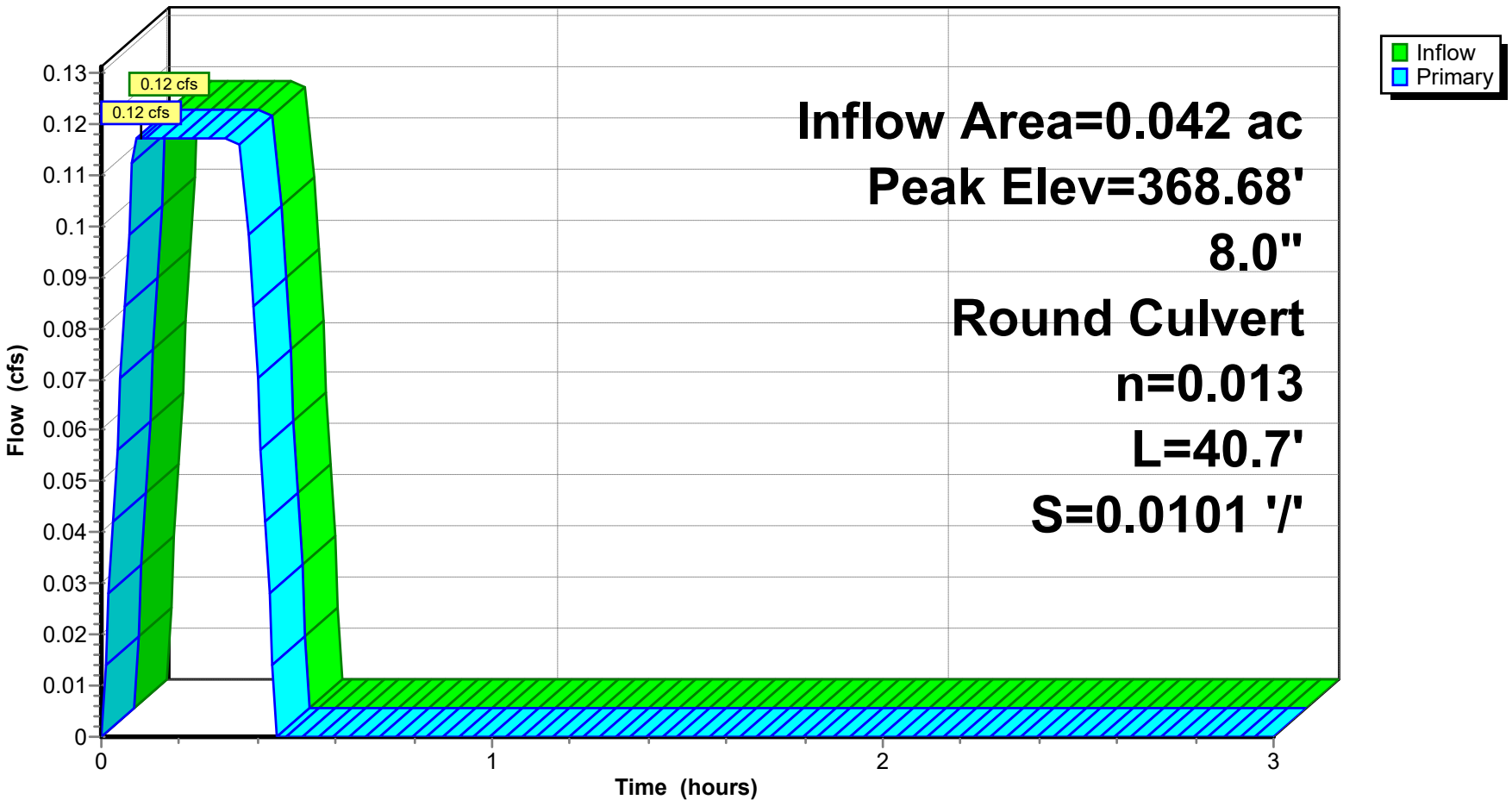
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 368.68' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	368.49'	**8.0" Round HDPE 8"** L= 40.7' Ke= 0.100 Inlet / Outlet Invert= 368.49' / 368.08' S= 0.0101 '/' Cc= 0.900 n= 0.013, Flow Area= 0.35 sf

Primary OutFlow Max=0.12 cfs @ 0.10 hrs HW=368.68' (Free Discharge)
1=HDPE 8" (Barrel Controls 0.12 cfs @ 2.14 fps)

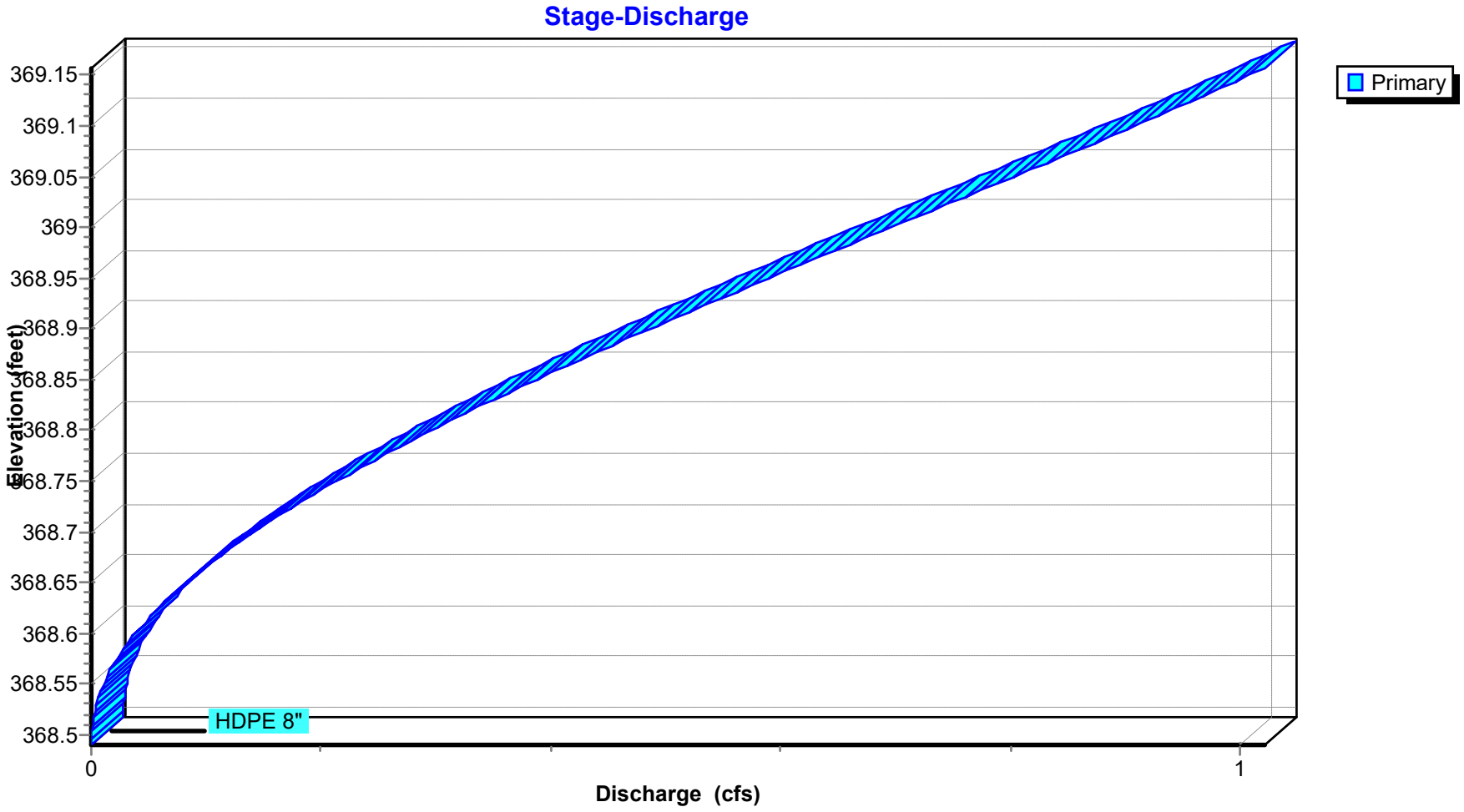
Pond AI-B1: AREA INLET B1

Hydrograph



Pond AI-B1: AREA INLET B1

Stage-Discharge



Stage-Area-Storage for Pond AI-B1: AREA INLET B1

Elevation (feet)	Storage (acre-feet)
368.49	**0.000**
368.50	0.000
368.51	0.000
368.52	0.000
368.53	0.000
368.54	0.000
368.55	0.000
368.56	0.000
368.57	0.000
368.58	0.000
368.59	0.000
368.60	0.000
368.61	0.000
368.62	0.000
368.63	0.000
368.64	0.000
368.65	0.000
368.66	0.000
368.67	0.000
368.68	0.000
368.69	0.000
368.70	0.000
368.71	0.000
368.72	0.000
368.73	0.000
368.74	0.000
368.75	0.000
368.76	0.000
368.77	0.000
368.78	0.000
368.79	0.000
368.80	0.000
368.81	0.000
368.82	0.000
368.83	0.000
368.84	0.000
368.85	0.000
368.86	0.000
368.87	0.000
368.88	0.000
368.89	0.000
368.90	0.000
368.91	0.000
368.92	0.000
368.93	0.000
368.94	0.000
368.95	0.000
368.96	0.000
368.97	0.000
368.98	0.000
368.99	0.000
369.00	0.000
369.01	0.000
369.02	0.000
369.03	0.000
369.04	0.000
369.05	0.000
369.06	0.000
369.07	0.000
369.08	0.000
369.09	0.000
369.10	0.000
369.11	0.000
369.12	0.000
369.13	0.000
369.14	0.000
369.15	0.000
369.16	0.000

Summary for Pond AI-B2: AREA INLET B2

Inflow Area = 0.129 ac, 0.00% Impervious, Inflow Depth = 0.87" for 2-yr event
Inflow = 0.31 cfs @ 0.10 hrs, Volume= 0.009 af
Outflow = 0.31 cfs @ 0.09 hrs, Volume= 0.009 af, Atten= 0%, Lag= 0.0 min
Primary = 0.31 cfs @ 0.09 hrs, Volume= 0.009 af
Routed to Pond CI-A2 : CURB INLET A2

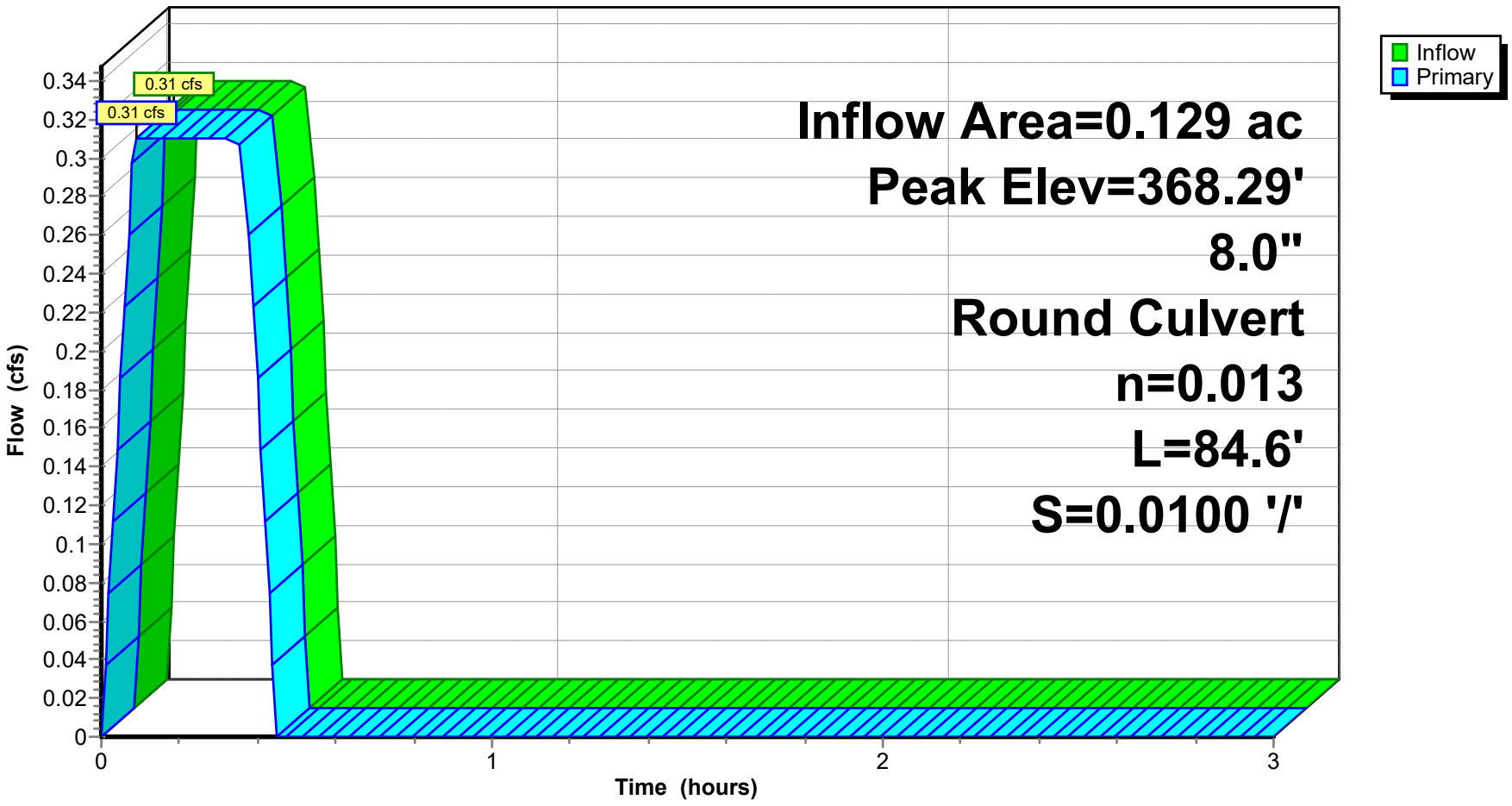
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 368.29' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	367.98'	**8.0" Round HDPE** L= 84.6' Ke= 0.100 Inlet / Outlet Invert= 367.98' / 367.13' S= 0.0100 '/' Cc= 0.900 n= 0.013, Flow Area= 0.35 sf

Primary OutFlow Max=0.31 cfs @ 0.09 hrs HW=368.29' (Free Discharge)
1=HDPE (Barrel Controls 0.31 cfs @ 2.83 fps)

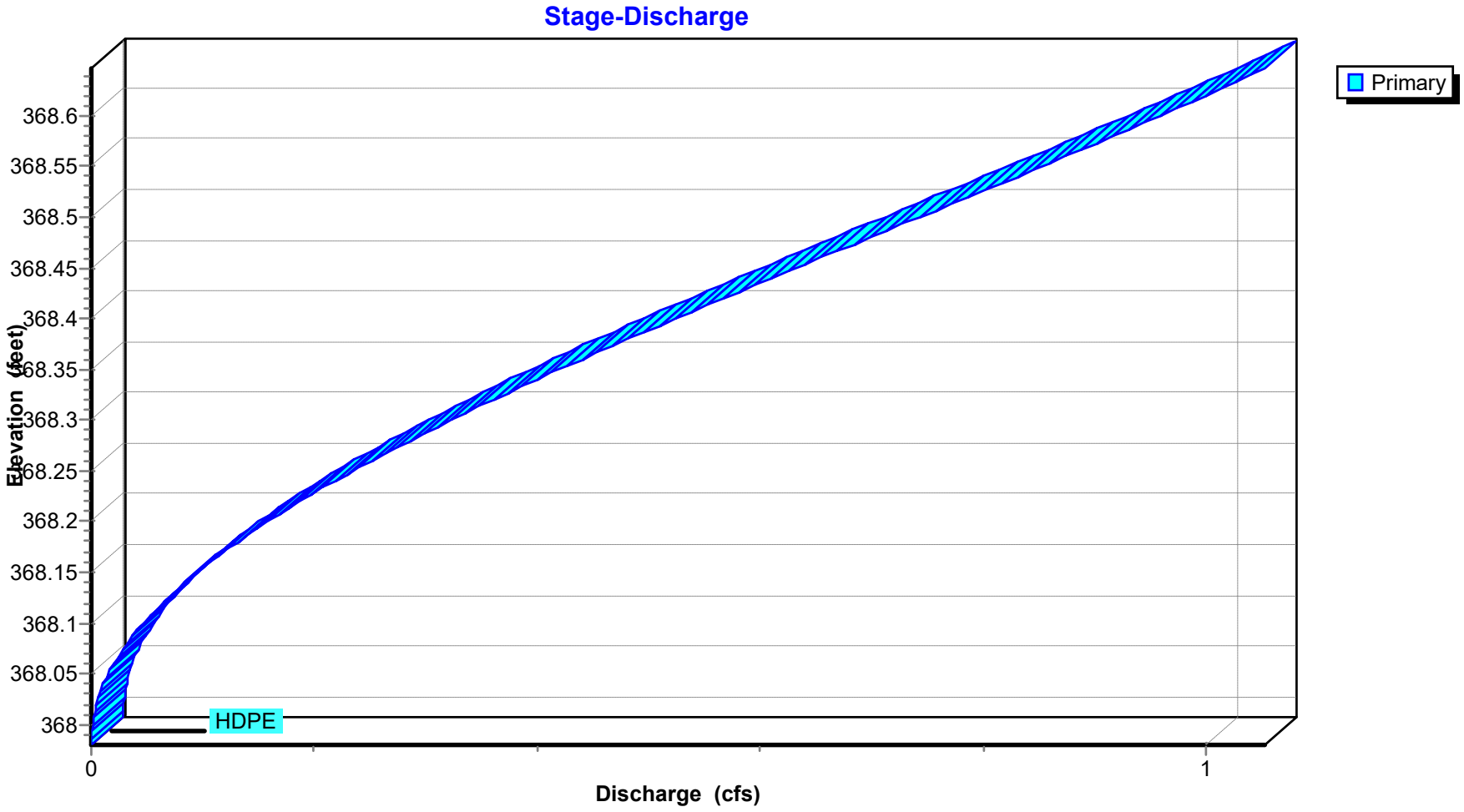
Pond AI-B2: AREA INLET B2

Hydrograph



Pond AI-B2: AREA INLET B2

Stage-Discharge



Stage-Area-Storage for Pond AI-B2: AREA INLET B2

Elevation (feet)	Storage (acre-feet)
367.98	**0.000**
367.99	0.000
368.00	0.000
368.01	0.000
368.02	0.000
368.03	0.000
368.04	0.000
368.05	0.000
368.06	0.000
368.07	0.000
368.08	0.000
368.09	0.000
368.10	0.000
368.11	0.000
368.12	0.000
368.13	0.000
368.14	0.000
368.15	0.000
368.16	0.000
368.17	0.000
368.18	0.000
368.19	0.000
368.20	0.000
368.21	0.000
368.22	0.000
368.23	0.000
368.24	0.000
368.25	0.000
368.26	0.000
368.27	0.000
368.28	0.000
368.29	0.000
368.30	0.000
368.31	0.000
368.32	0.000
368.33	0.000
368.34	0.000
368.35	0.000
368.36	0.000
368.37	0.000
368.38	0.000
368.39	0.000
368.40	0.000
368.41	0.000
368.42	0.000
368.43	0.000
368.44	0.000
368.45	0.000
368.46	0.000
368.47	0.000
368.48	0.000
368.49	0.000
368.50	0.000
368.51	0.000
368.52	0.000
368.53	0.000
368.54	0.000
368.55	0.000
368.56	0.000
368.57	0.000
368.58	0.000
368.59	0.000
368.60	0.000
368.61	0.000
368.62	0.000
368.63	0.000
368.64	0.000
368.65	0.000

Summary for Pond CI-A1: CURB INLET A1

Inflow Area = 0.443 ac, 0.00% Impervious, Inflow Depth = 0.95" for 2-yr event
Inflow = 1.16 cfs @ 0.09 hrs, Volume= 0.035 af
Outflow = 1.16 cfs @ 0.10 hrs, Volume= 0.035 af, Atten= 0%, Lag= 0.6 min
Primary = 1.16 cfs @ 0.10 hrs, Volume= 0.035 af
Routed to Pond CI-A2 : CURB INLET A2

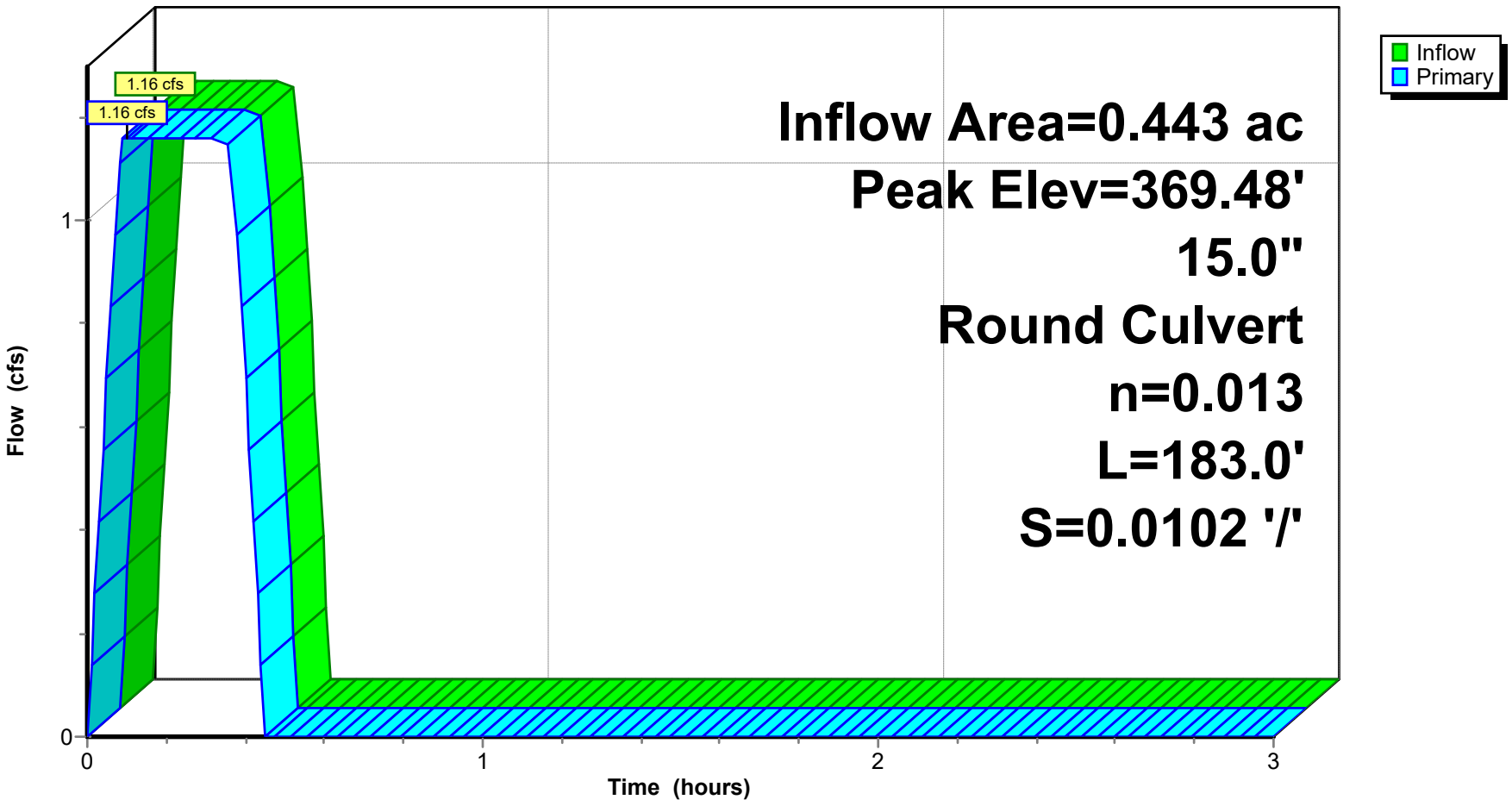
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 369.48' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	369.00'	**15.0" Round RCP_Round 15"** L= 183.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 369.00' / 367.13' S= 0.0102 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.23 sf

Primary OutFlow Max=1.16 cfs @ 0.10 hrs HW=369.48' (Free Discharge)
└**1=RCP_Round 15"** (Barrel Controls 1.16 cfs @ 3.90 fps)

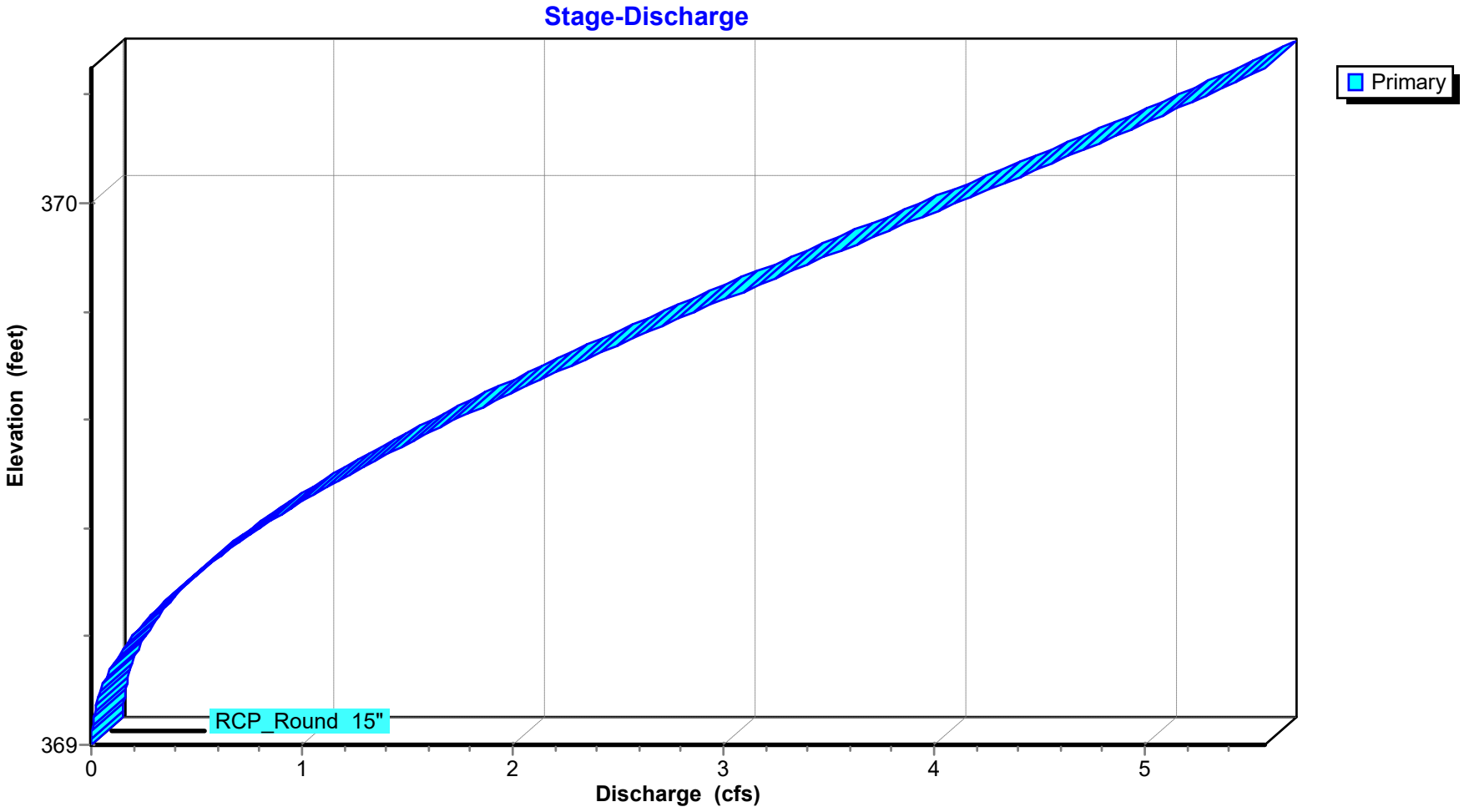
Pond CI-A1: CURB INLET A1

Hydrograph



Pond CI-A1: CURB INLET A1

Stage-Discharge



Stage-Area-Storage for Pond CI-A1: CURB INLET A1

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
369.00	**0.000**	369.92	0.000
369.01	0.000	369.93	0.000
369.02	0.000	369.94	0.000
369.03	0.000	369.95	0.000
369.04	0.000	369.96	0.000
369.05	0.000	369.97	0.000
369.06	0.000	369.98	0.000
369.07	0.000	369.99	0.000
369.08	0.000	370.00	0.000
369.09	0.000	370.01	0.000
369.10	0.000	370.02	0.000
369.11	0.000	370.03	0.000
369.12	0.000	370.04	0.000
369.13	0.000	370.05	0.000
369.14	0.000	370.06	0.000
369.15	0.000	370.07	0.000
369.16	0.000	370.08	0.000
369.17	0.000	370.09	0.000
369.18	0.000	370.10	0.000
369.19	0.000	370.11	0.000
369.20	0.000	370.12	0.000
369.21	0.000	370.13	0.000
369.22	0.000	370.14	0.000
369.23	0.000	370.15	0.000
369.24	0.000	370.16	0.000
369.25	0.000	370.17	0.000
369.26	0.000	370.18	0.000
369.27	0.000	370.19	0.000
369.28	0.000	370.20	0.000
369.29	0.000	370.21	0.000
369.30	0.000	370.22	0.000
369.31	0.000	370.23	0.000
369.32	0.000	370.24	0.000
369.33	0.000	370.25	0.000
369.34	0.000		
369.35	0.000		
369.36	0.000		
369.37	0.000		
369.38	0.000		
369.39	0.000		
369.40	0.000		
369.41	0.000		
369.42	0.000		
369.43	0.000		
369.44	0.000		
369.45	0.000		
369.46	0.000		
369.47	0.000		
369.48	0.000		
369.49	0.000		
369.50	0.000		
369.51	0.000		
369.52	0.000		
369.53	0.000		
369.54	0.000		
369.55	0.000		
369.56	0.000		
369.57	0.000		
369.58	0.000		
369.59	0.000		
369.60	0.000		
369.61	0.000		
369.62	0.000		
369.63	0.000		
369.64	0.000		
369.65	0.000		
369.66	0.000		
369.67	0.000		
369.68	0.000		
369.69	0.000		
369.70	0.000		
369.71	0.000		
369.72	0.000		
369.73	0.000		
369.74	0.000		
369.75	0.000		
369.76	0.000		
369.77	0.000		
369.78	0.000		
369.79	0.000		
369.80	0.000		
369.81	0.000		
369.82	0.000		
369.83	0.000		
369.84	0.000		
369.85	0.000		
369.86	0.000		
369.87	0.000		
369.88	0.000		
369.89	0.000		
369.90	0.000		
369.91	0.000		

Summary for Pond CI-A2: CURB INLET A2

Inflow Area = 1.156 ac, 0.00% Impervious, Inflow Depth = 0.82" for 2-yr event
Inflow = 2.60 cfs @ 0.16 hrs, Volume= 0.079 af
Outflow = 2.60 cfs @ 0.15 hrs, Volume= 0.079 af, Atten= 0%, Lag= 0.0 min
Primary = 2.60 cfs @ 0.15 hrs, Volume= 0.079 af
Routed to Pond CI-A3 : CURB INLET A3

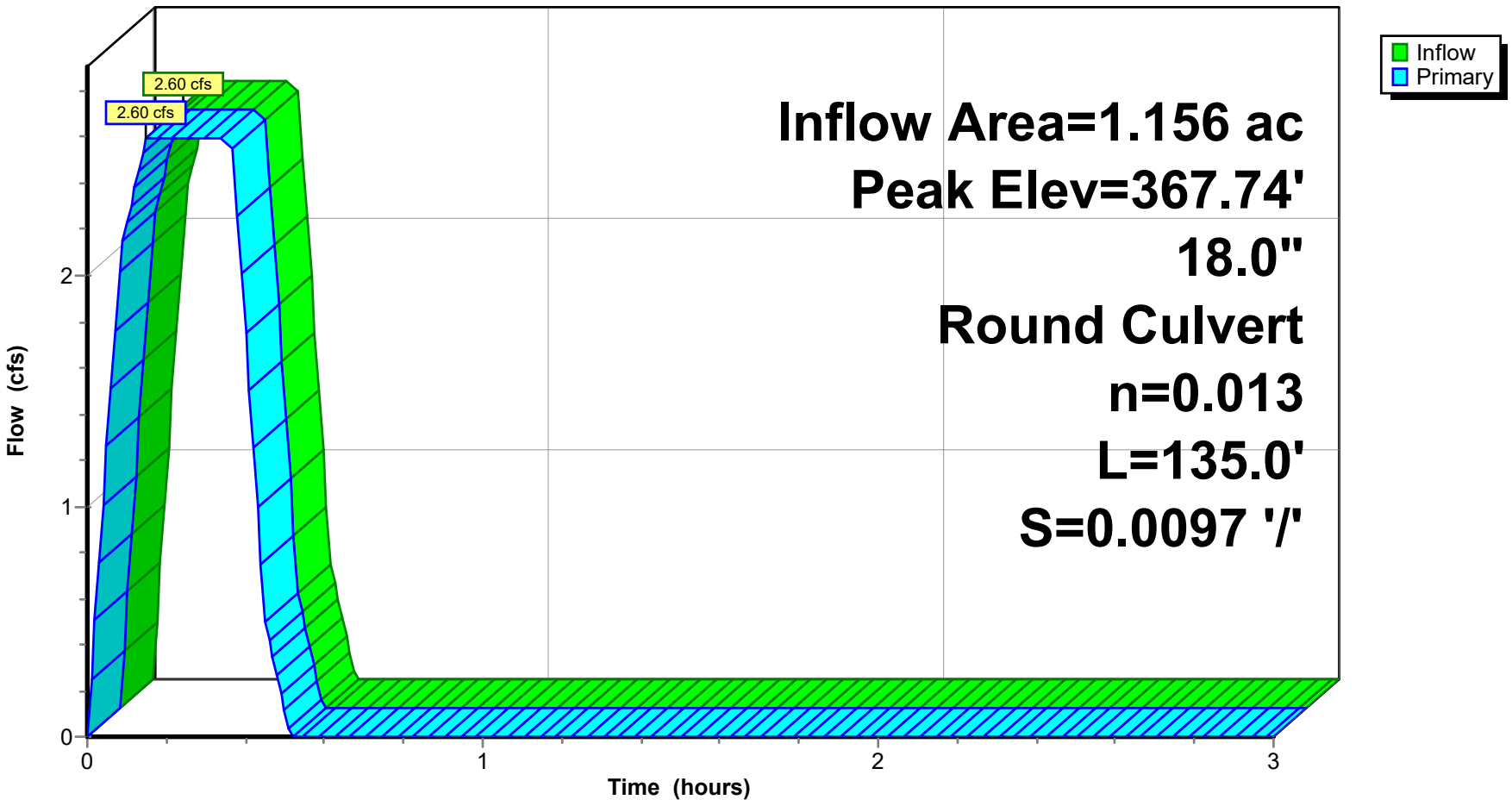
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 367.74' @ 0.15 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	367.03'	**18.0" Round RCP_Round 18"** L= 135.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 367.03' / 365.72' S= 0.0097 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.77 sf

Primary OutFlow Max=2.60 cfs @ 0.15 hrs HW=367.74' (Free Discharge)
1=RCP_Round 18" (Barrel Controls 2.60 cfs @ 4.61 fps)

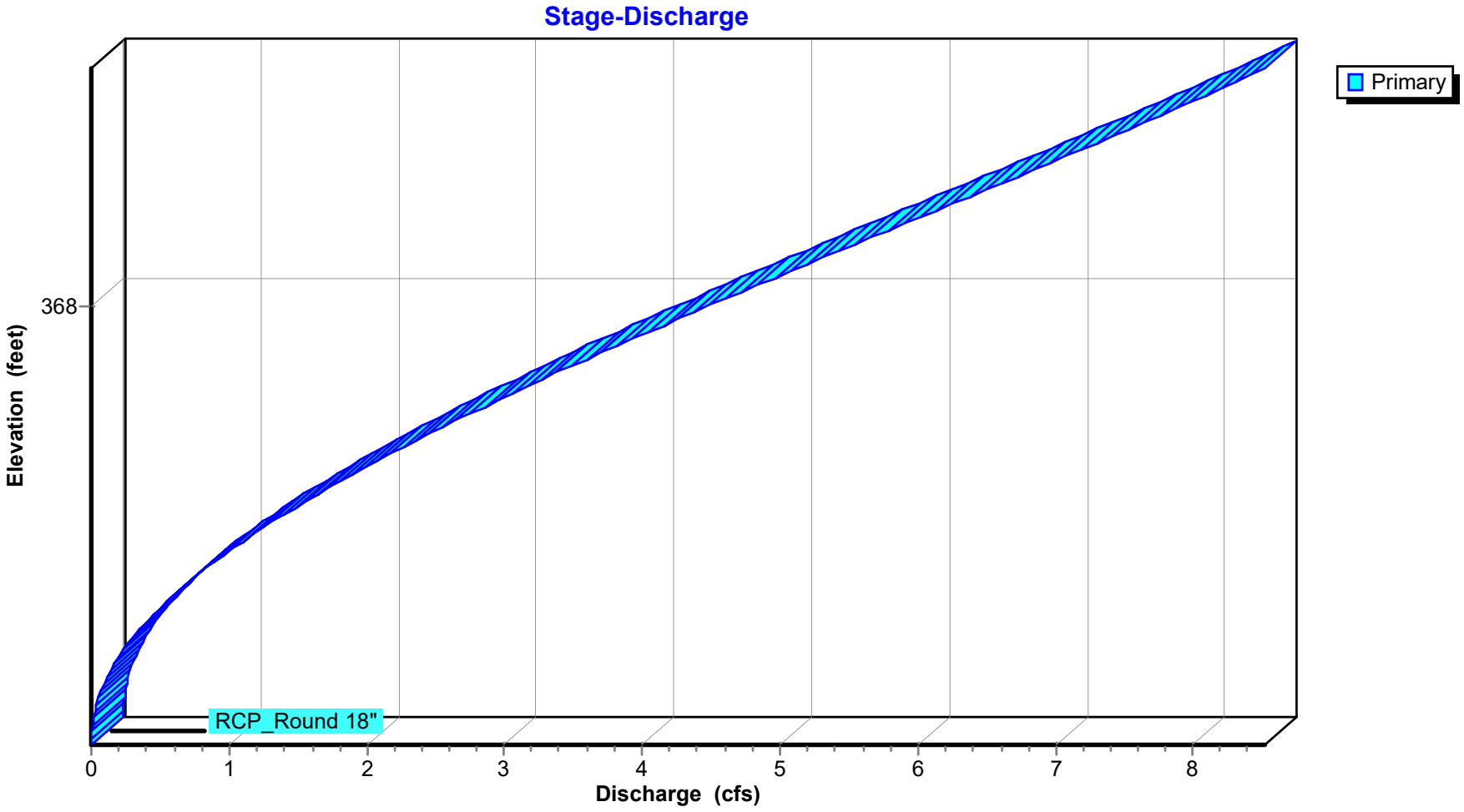
Pond CI-A2: CURB INLET A2

Hydrograph



Pond CI-A2: CURB INLET A2

Stage-Discharge



Stage-Area-Storage for Pond CI-A2: CURB INLET A2

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
367.03	**0.000**	367.95	0.000
367.04	0.000	367.96	0.000
367.05	0.000	367.97	0.000
367.06	0.000	367.98	0.000
367.07	0.000	367.99	0.000
367.08	0.000	368.00	0.000
367.09	0.000	368.01	0.000
367.10	0.000	368.02	0.000
367.11	0.000	368.03	0.000
367.12	0.000	368.04	0.000
367.13	0.000	368.05	0.000
367.14	0.000	368.06	0.000
367.15	0.000	368.07	0.000
367.16	0.000	368.08	0.000
367.17	0.000	368.09	0.000
367.18	0.000	368.10	0.000
367.19	0.000	368.11	0.000
367.20	0.000	368.12	0.000
367.21	0.000	368.13	0.000
367.22	0.000	368.14	0.000
367.23	0.000	368.15	0.000
367.24	0.000	368.16	0.000
367.25	0.000	368.17	0.000
367.26	0.000	368.18	0.000
367.27	0.000	368.19	0.000
367.28	0.000	368.20	0.000
367.29	0.000	368.21	0.000
367.30	0.000	368.22	0.000
367.31	0.000	368.23	0.000
367.32	0.000	368.24	0.000
367.33	0.000	368.25	0.000
367.34	0.000	368.26	0.000
367.35	0.000	368.27	0.000
367.36	0.000	368.28	0.000
367.37	0.000	368.29	0.000
367.38	0.000	368.30	0.000
367.39	0.000	368.31	0.000
367.40	0.000	368.32	0.000
367.41	0.000	368.33	0.000
367.42	0.000	368.34	0.000
367.43	0.000	368.35	0.000
367.44	0.000	368.36	0.000
367.45	0.000	368.37	0.000
367.46	0.000	368.38	0.000
367.47	0.000	368.39	0.000
367.48	0.000	368.40	0.000
367.49	0.000	368.41	0.000
367.50	0.000	368.42	0.000
367.51	0.000	368.43	0.000
367.52	0.000	368.44	0.000
367.53	0.000	368.45	0.000
367.54	0.000	368.46	0.000
367.55	0.000	368.47	0.000
367.56	0.000	368.48	0.000
367.57	0.000	368.49	0.000
367.58	0.000	368.50	0.000
367.59	0.000	368.51	0.000
367.60	0.000	368.52	0.000
367.61	0.000	368.53	0.000
367.62	0.000		
367.63	0.000		
367.64	0.000		
367.65	0.000		
367.66	0.000		
367.67	0.000		
367.68	0.000		
367.69	0.000		
367.70	0.000		
367.71	0.000		
367.72	0.000		
367.73	0.000		
367.74	0.000		
367.75	0.000		
367.76	0.000		
367.77	0.000		
367.78	0.000		
367.79	0.000		
367.80	0.000		
367.81	0.000		
367.82	0.000		
367.83	0.000		
367.84	0.000		
367.85	0.000		
367.86	0.000		
367.87	0.000		
367.88	0.000		
367.89	0.000		
367.90	0.000		
367.91	0.000		
367.92	0.000		
367.93	0.000		
367.94	0.000		

Summary for Pond CI-A3: CURB INLET A3

Inflow Area = 1.426 ac, 0.00% Impervious, Inflow Depth = 0.82" for 2-yr event
Inflow = 3.23 cfs @ 0.15 hrs, Volume= 0.098 af
Outflow = 3.23 cfs @ 0.16 hrs, Volume= 0.098 af, Atten= 0%, Lag= 0.6 min
Primary = 3.23 cfs @ 0.16 hrs, Volume= 0.098 af
Routed to Pond CI-A4 : CURB INLET A4

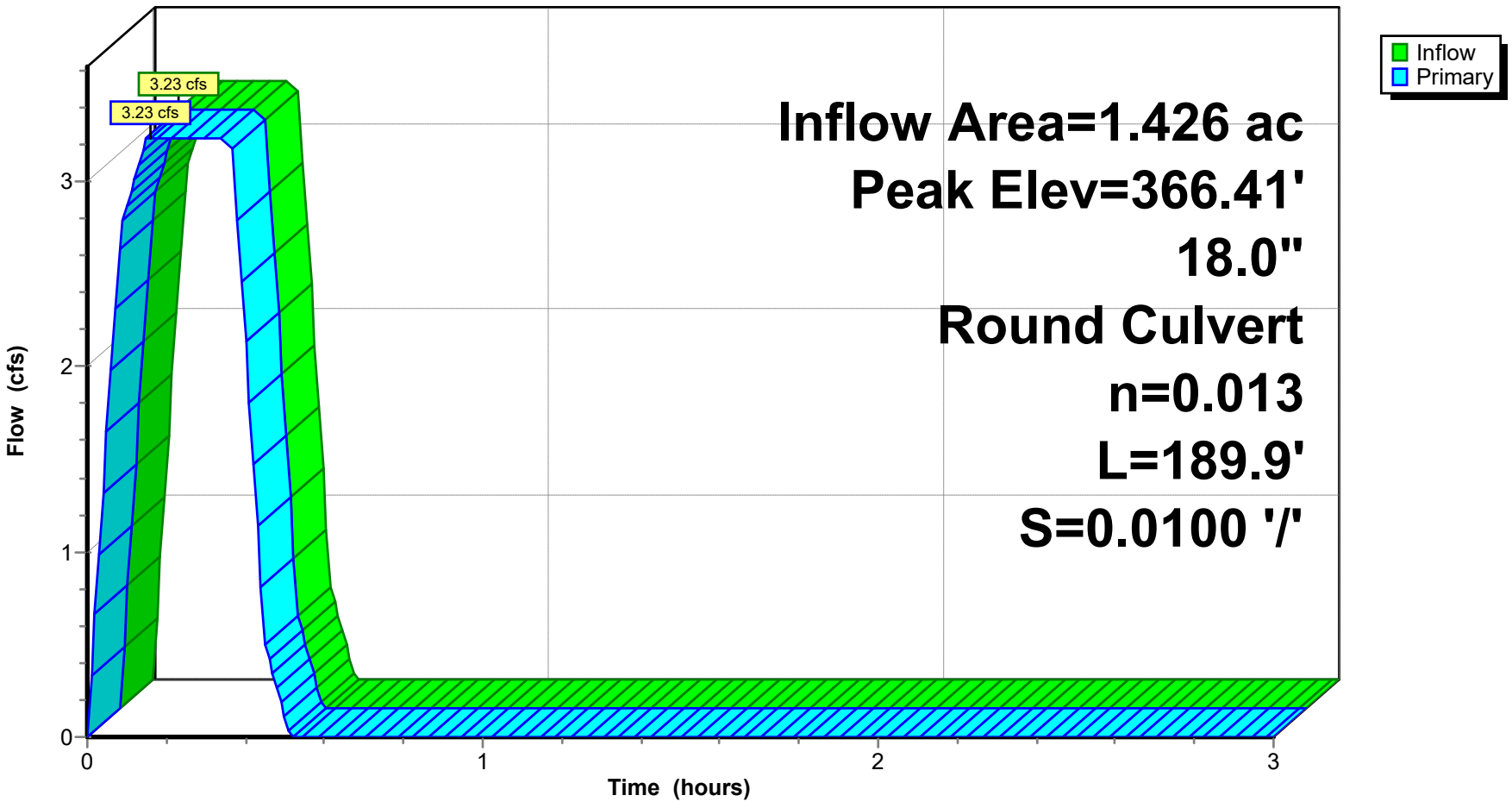
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 366.41' @ 0.15 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	365.62'	**18.0" Round RCP_Round 18"** L= 189.9' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 365.62' / 363.72' S= 0.0100 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.77 sf

Primary OutFlow Max=3.23 cfs @ 0.16 hrs HW=366.41' (Free Discharge)
1=RCP_Round 18" (Barrel Controls 3.23 cfs @ 4.99 fps)

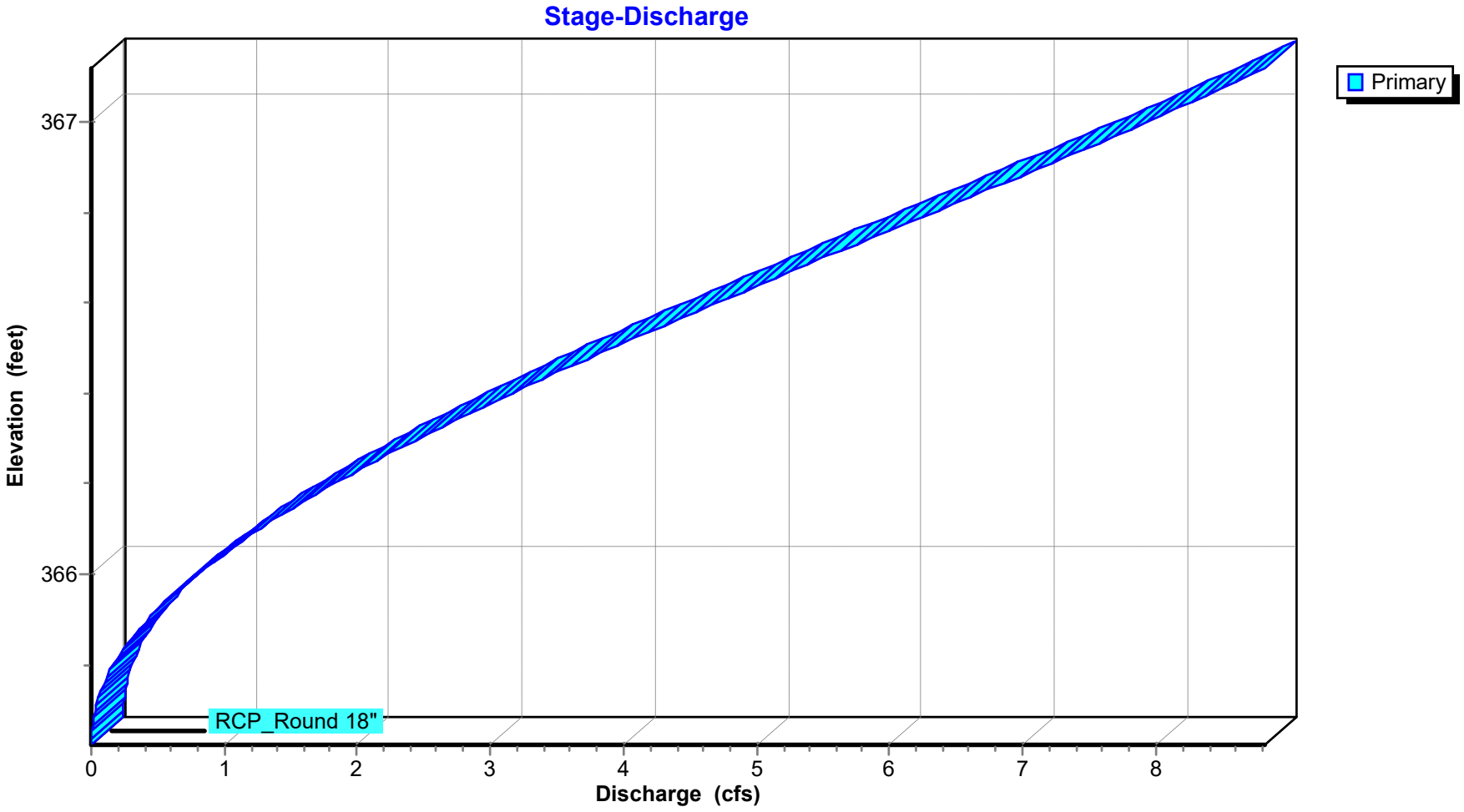
Pond CI-A3: CURB INLET A3

Hydrograph



Pond CI-A3: CURB INLET A3

Stage-Discharge



Stage-Area-Storage for Pond CI-A3: CURB INLET A3

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
365.62	**0.000**	366.54	0.000
365.63	0.000	366.55	0.000
365.64	0.000	366.56	0.000
365.65	0.000	366.57	0.000
365.66	0.000	366.58	0.000
365.67	0.000	366.59	0.000
365.68	0.000	366.60	0.000
365.69	0.000	366.61	0.000
365.70	0.000	366.62	0.000
365.71	0.000	366.63	0.000
365.72	0.000	366.64	0.000
365.73	0.000	366.65	0.000
365.74	0.000	366.66	0.000
365.75	0.000	366.67	0.000
365.76	0.000	366.68	0.000
365.77	0.000	366.69	0.000
365.78	0.000	366.70	0.000
365.79	0.000	366.71	0.000
365.80	0.000	366.72	0.000
365.81	0.000	366.73	0.000
365.82	0.000	366.74	0.000
365.83	0.000	366.75	0.000
365.84	0.000	366.76	0.000
365.85	0.000	366.77	0.000
365.86	0.000	366.78	0.000
365.87	0.000	366.79	0.000
365.88	0.000	366.80	0.000
365.89	0.000	366.81	0.000
365.90	0.000	366.82	0.000
365.91	0.000	366.83	0.000
365.92	0.000	366.84	0.000
365.93	0.000	366.85	0.000
365.94	0.000	366.86	0.000
365.95	0.000	366.87	0.000
365.96	0.000	366.88	0.000
365.97	0.000	366.89	0.000
365.98	0.000	366.90	0.000
365.99	0.000	366.91	0.000
366.00	0.000	366.92	0.000
366.01	0.000	366.93	0.000
366.02	0.000	366.94	0.000
366.03	0.000	366.95	0.000
366.04	0.000	366.96	0.000
366.05	0.000	366.97	0.000
366.06	0.000	366.98	0.000
366.07	0.000	366.99	0.000
366.08	0.000	367.00	0.000
366.09	0.000	367.01	0.000
366.10	0.000	367.02	0.000
366.11	0.000	367.03	0.000
366.12	0.000	367.04	0.000
366.13	0.000	367.05	0.000
366.14	0.000	367.06	0.000
366.15	0.000	367.07	0.000
366.16	0.000	367.08	0.000
366.17	0.000	367.09	0.000
366.18	0.000	367.10	0.000
366.19	0.000	367.11	0.000
366.20	0.000	367.12	0.000
366.21	0.000		
366.22	0.000		
366.23	0.000		
366.24	0.000		
366.25	0.000		
366.26	0.000		
366.27	0.000		
366.28	0.000		
366.29	0.000		
366.30	0.000		
366.31	0.000		
366.32	0.000		
366.33	0.000		
366.34	0.000		
366.35	0.000		
366.36	0.000		
366.37	0.000		
366.38	0.000		
366.39	0.000		
366.40	0.000		
366.41	0.000		
366.42	0.000		
366.43	0.000		
366.44	0.000		
366.45	0.000		
366.46	0.000		
366.47	0.000		
366.48	0.000		
366.49	0.000		
366.50	0.000		
366.51	0.000		
366.52	0.000		
366.53	0.000		

Summary for Pond CI-A4: CURB INLET A4

Inflow Area = 2.197 ac, 0.00% Impervious, Inflow Depth = 0.81" for 2-yr event
Inflow = 4.89 cfs @ 0.16 hrs, Volume= 0.148 af
Outflow = 4.89 cfs @ 0.18 hrs, Volume= 0.148 af, Atten= 0%, Lag= 1.2 min
Primary = 4.89 cfs @ 0.18 hrs, Volume= 0.148 af
Routed to Pond CI-A5 : CURB INLET A5

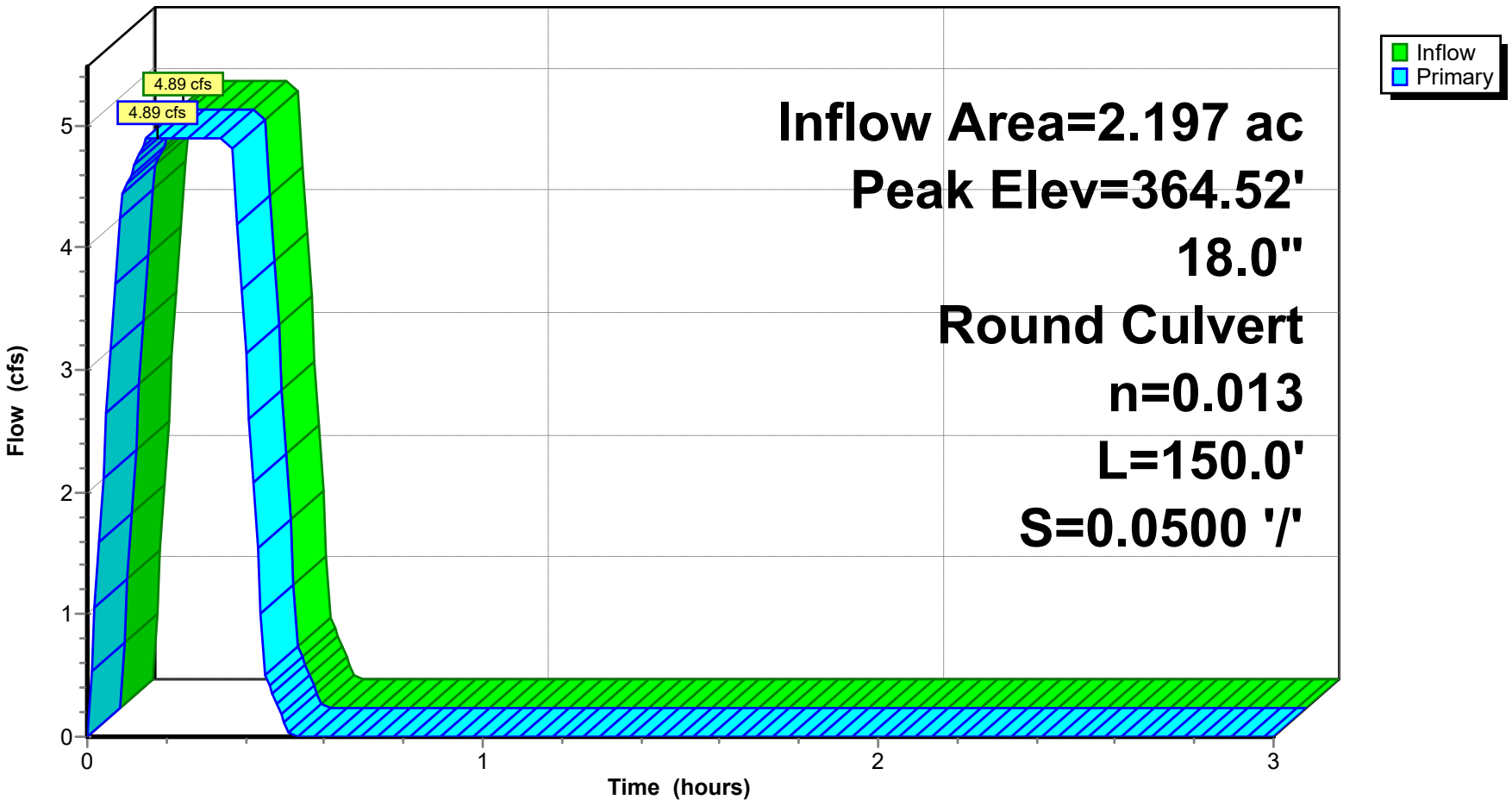
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 364.52' @ 0.15 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	363.62'	**18.0" Round RCP_Round 18"** L= 150.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 363.62' / 356.12' S= 0.0500 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.77 sf

Primary OutFlow Max=4.89 cfs @ 0.18 hrs HW=364.52' (Free Discharge)
1=RCP_Round 18" (Inlet Controls 4.89 cfs @ 4.41 fps)

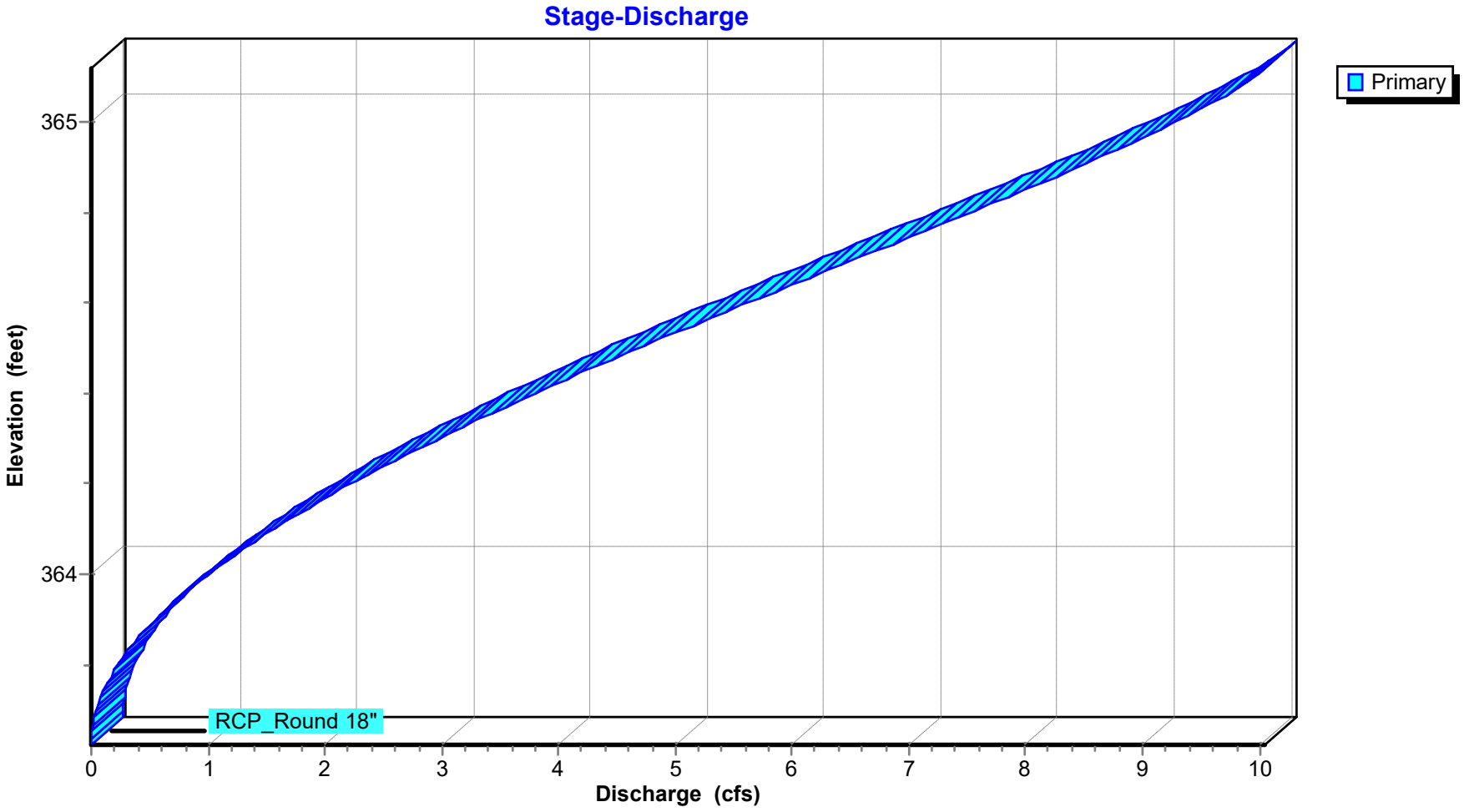
Pond CI-A4: CURB INLET A4

Hydrograph



Pond CI-A4: CURB INLET A4

Stage-Discharge



Stage-Area-Storage for Pond CI-A4: CURB INLET A4

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
363.62	**0.000**	364.54	0.000
363.63	0.000	364.55	0.000
363.64	0.000	364.56	0.000
363.65	0.000	364.57	0.000
363.66	0.000	364.58	0.000
363.67	0.000	364.59	0.000
363.68	0.000	364.60	0.000
363.69	0.000	364.61	0.000
363.70	0.000	364.62	0.000
363.71	0.000	364.63	0.000
363.72	0.000	364.64	0.000
363.73	0.000	364.65	0.000
363.74	0.000	364.66	0.000
363.75	0.000	364.67	0.000
363.76	0.000	364.68	0.000
363.77	0.000	364.69	0.000
363.78	0.000	364.70	0.000
363.79	0.000	364.71	0.000
363.80	0.000	364.72	0.000
363.81	0.000	364.73	0.000
363.82	0.000	364.74	0.000
363.83	0.000	364.75	0.000
363.84	0.000	364.76	0.000
363.85	0.000	364.77	0.000
363.86	0.000	364.78	0.000
363.87	0.000	364.79	0.000
363.88	0.000	364.80	0.000
363.89	0.000	364.81	0.000
363.90	0.000	364.82	0.000
363.91	0.000	364.83	0.000
363.92	0.000	364.84	0.000
363.93	0.000	364.85	0.000
363.94	0.000	364.86	0.000
363.95	0.000	364.87	0.000
363.96	0.000	364.88	0.000
363.97	0.000	364.89	0.000
363.98	0.000	364.90	0.000
363.99	0.000	364.91	0.000
364.00	0.000	364.92	0.000
364.01	0.000	364.93	0.000
364.02	0.000	364.94	0.000
364.03	0.000	364.95	0.000
364.04	0.000	364.96	0.000
364.05	0.000	364.97	0.000
364.06	0.000	364.98	0.000
364.07	0.000	364.99	0.000
364.08	0.000	365.00	0.000
364.09	0.000	365.01	0.000
364.10	0.000	365.02	0.000
364.11	0.000	365.03	0.000
364.12	0.000	365.04	0.000
364.13	0.000	365.05	0.000
364.14	0.000	365.06	0.000
364.15	0.000	365.07	0.000
364.16	0.000	365.08	0.000
364.17	0.000	365.09	0.000
364.18	0.000	365.10	0.000
364.19	0.000	365.11	0.000
364.20	0.000	365.12	0.000
364.21	0.000		
364.22	0.000		
364.23	0.000		
364.24	0.000		
364.25	0.000		
364.26	0.000		
364.27	0.000		
364.28	0.000		
364.29	0.000		
364.30	0.000		
364.31	0.000		
364.32	0.000		
364.33	0.000		
364.34	0.000		
364.35	0.000		
364.36	0.000		
364.37	0.000		
364.38	0.000		
364.39	0.000		
364.40	0.000		
364.41	0.000		
364.42	0.000		
364.43	0.000		
364.44	0.000		
364.45	0.000		
364.46	0.000		
364.47	0.000		
364.48	0.000		
364.49	0.000		
364.50	0.000		
364.51	0.000		
364.52	0.000		
364.53	0.000		

Summary for Pond CI-A5: CURB INLET A5

Inflow Area = 2.439 ac, 0.00% Impervious, Inflow Depth = 0.79" for 2-yr event
Inflow = 5.27 cfs @ 0.18 hrs, Volume= 0.160 af
Outflow = 5.27 cfs @ 0.22 hrs, Volume= 0.160 af, Atten= 0%, Lag= 2.4 min
Primary = 5.27 cfs @ 0.22 hrs, Volume= 0.160 af
Routed to Link POST-DEV : Post-Development

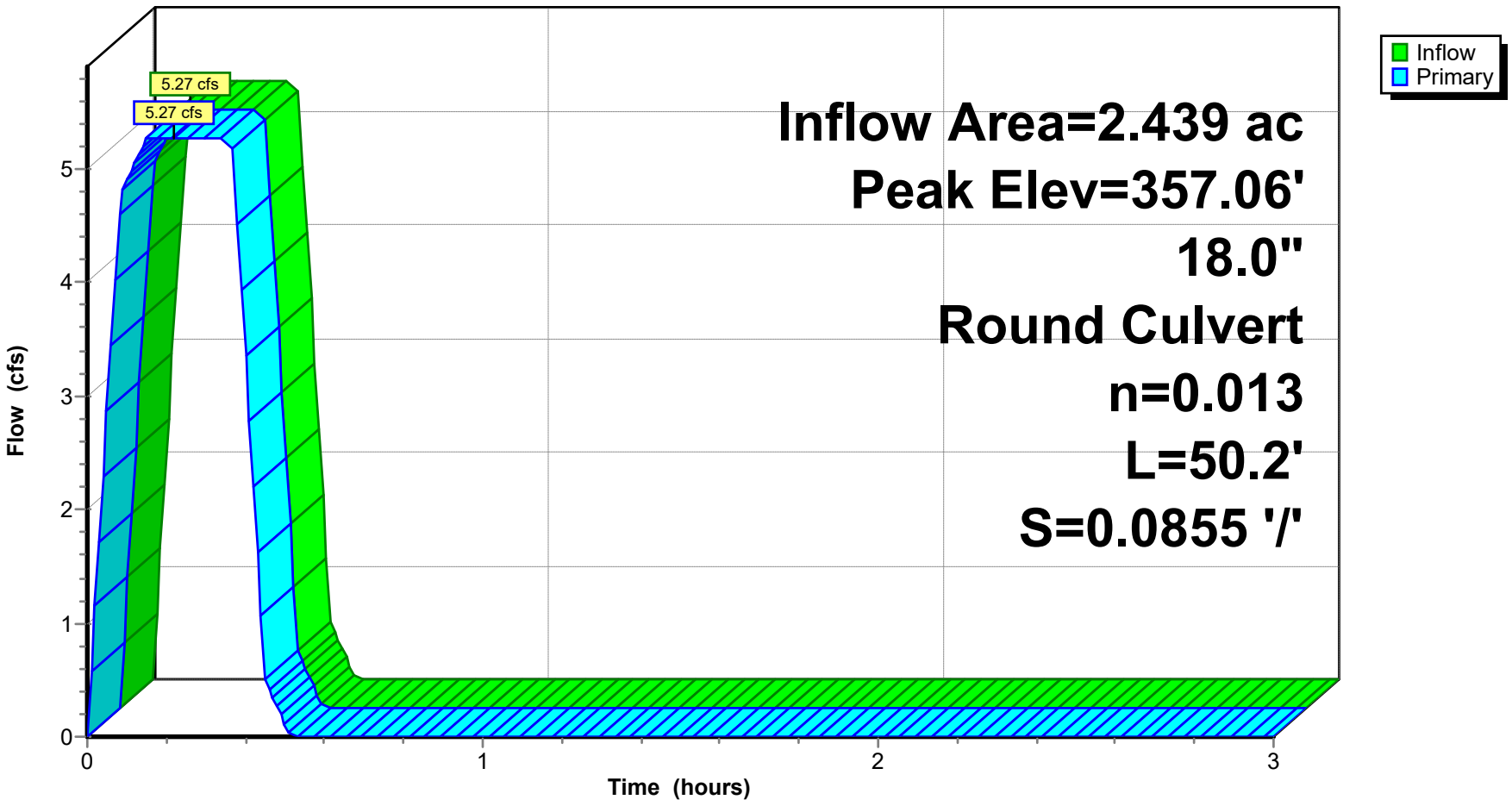
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 357.06' @ 0.15 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	356.12'	**18.0" Round RCP_Round 18** L= 50.2' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 356.12' / 351.83' S= 0.0855 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.77 sf

Primary OutFlow Max=5.27 cfs @ 0.22 hrs HW=357.06' (Free Discharge)
1=RCP_Round 18 (Inlet Controls 5.27 cfs @ 4.51 fps)

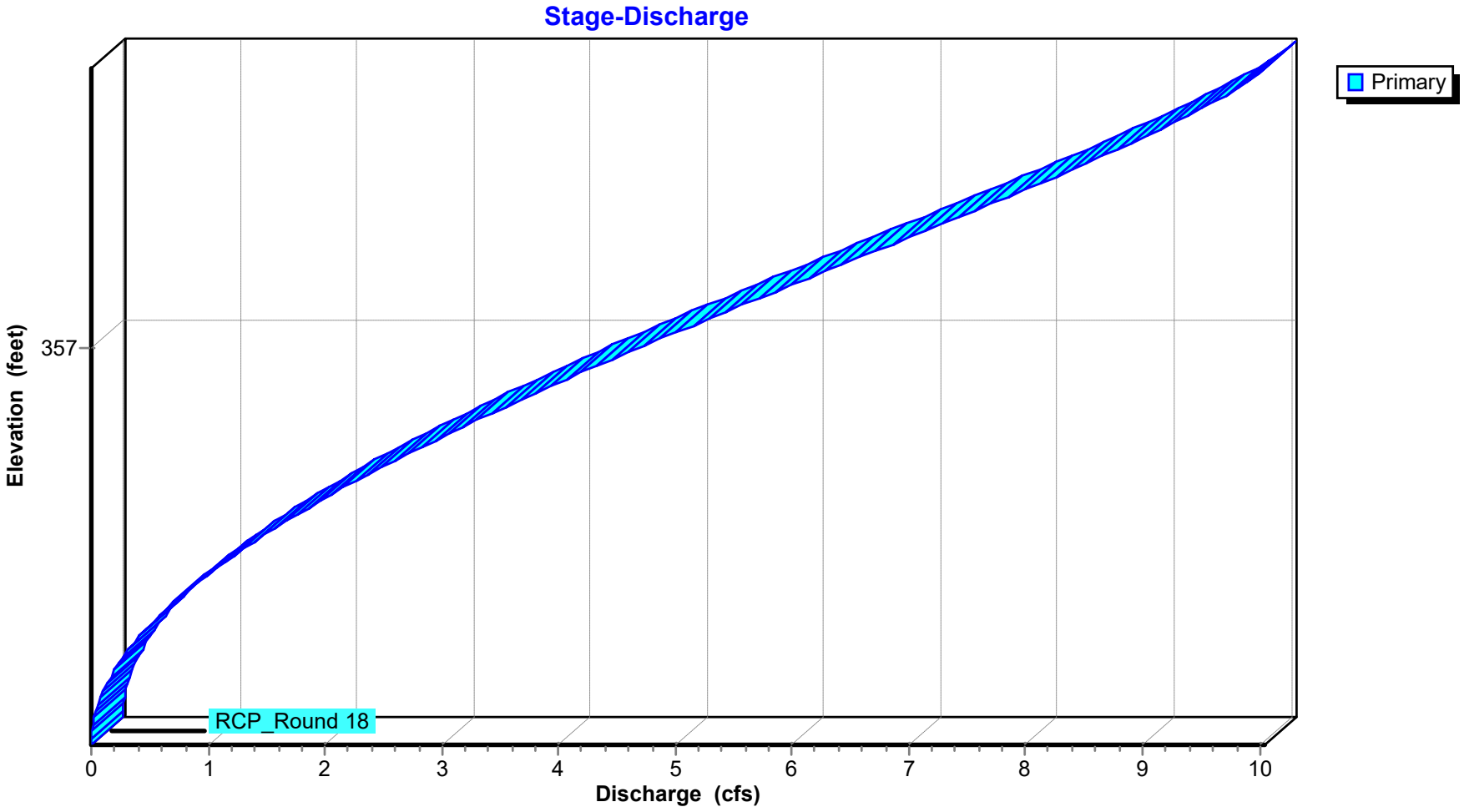
Pond CI-A5: CURB INLET A5

Hydrograph



Pond CI-A5: CURB INLET A5

Stage-Discharge



Stage-Area-Storage for Pond CI-A5: CURB INLET A5

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
356.12	**0.000**	357.04	0.000
356.13	0.000	357.05	0.000
356.14	0.000	357.06	0.000
356.15	0.000	357.07	0.000
356.16	0.000	357.08	0.000
356.17	0.000	357.09	0.000
356.18	0.000	357.10	0.000
356.19	0.000	357.11	0.000
356.20	0.000	357.12	0.000
356.21	0.000	357.13	0.000
356.22	0.000	357.14	0.000
356.23	0.000	357.15	0.000
356.24	0.000	357.16	0.000
356.25	0.000	357.17	0.000
356.26	0.000	357.18	0.000
356.27	0.000	357.19	0.000
356.28	0.000	357.20	0.000
356.29	0.000	357.21	0.000
356.30	0.000	357.22	0.000
356.31	0.000	357.23	0.000
356.32	0.000	357.24	0.000
356.33	0.000	357.25	0.000
356.34	0.000	357.26	0.000
356.35	0.000	357.27	0.000
356.36	0.000	357.28	0.000
356.37	0.000	357.29	0.000
356.38	0.000	357.30	0.000
356.39	0.000	357.31	0.000
356.40	0.000	357.32	0.000
356.41	0.000	357.33	0.000
356.42	0.000	357.34	0.000
356.43	0.000	357.35	0.000
356.44	0.000	357.36	0.000
356.45	0.000	357.37	0.000
356.46	0.000	357.38	0.000
356.47	0.000	357.39	0.000
356.48	0.000	357.40	0.000
356.49	0.000	357.41	0.000
356.50	0.000	357.42	0.000
356.51	0.000	357.43	0.000
356.52	0.000	357.44	0.000
356.53	0.000	357.45	0.000
356.54	0.000	357.46	0.000
356.55	0.000	357.47	0.000
356.56	0.000	357.48	0.000
356.57	0.000	357.49	0.000
356.58	0.000	357.50	0.000
356.59	0.000	357.51	0.000
356.60	0.000	357.52	0.000
356.61	0.000	357.53	0.000
356.62	0.000	357.54	0.000
356.63	0.000	357.55	0.000
356.64	0.000	357.56	0.000
356.65	0.000	357.57	0.000
356.66	0.000	357.58	0.000
356.67	0.000	357.59	0.000
356.68	0.000	357.60	0.000
356.69	0.000	357.61	0.000
356.70	0.000	357.62	0.000
356.71	0.000		
356.72	0.000		
356.73	0.000		
356.74	0.000		
356.75	0.000		
356.76	0.000		
356.77	0.000		
356.78	0.000		
356.79	0.000		
356.80	0.000		
356.81	0.000		
356.82	0.000		
356.83	0.000		
356.84	0.000		
356.85	0.000		
356.86	0.000		
356.87	0.000		
356.88	0.000		
356.89	0.000		
356.90	0.000		
356.91	0.000		
356.92	0.000		
356.93	0.000		
356.94	0.000		
356.95	0.000		
356.96	0.000		
356.97	0.000		
356.98	0.000		
356.99	0.000		
357.00	0.000		
357.01	0.000		
357.02	0.000		
357.03	0.000		

Summary for Pond CI-C1: CURB INLET C1

Inflow Area = 0.210 ac, 0.00% Impervious, Inflow Depth = 0.68" for 2-yr event
Inflow = 0.40 cfs @ 0.09 hrs, Volume= 0.012 af
Outflow = 0.40 cfs @ 0.10 hrs, Volume= 0.012 af, Atten= 0%, Lag= 0.6 min
Primary = 0.40 cfs @ 0.10 hrs, Volume= 0.012 af
Routed to Pond CI-C2 : CURB INLET C2

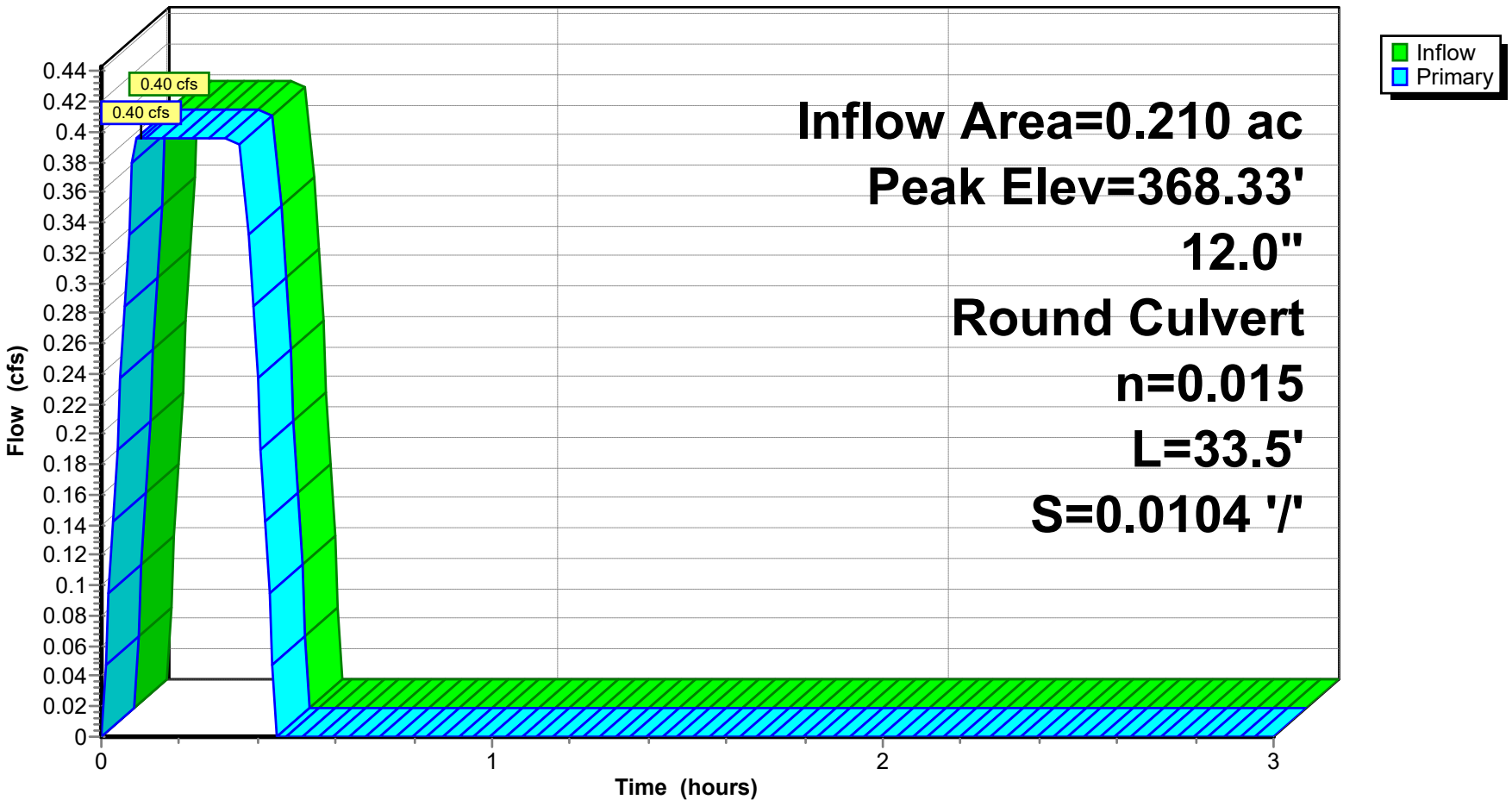
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 368.33' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	368.00'	**12.0" Round RCP_ROUND 12"** L= 33.5' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 368.00' / 367.65' S= 0.0104 '/' Cc= 0.900 n= 0.015 Concrete sewer w/manholes & inlets, Flow Area= 0.79 sf

Primary OutFlow Max=0.40 cfs @ 0.10 hrs HW=368.33' (Free Discharge)
1=RCP_ROUND 12" (Barrel Controls 0.40 cfs @ 2.64 fps)

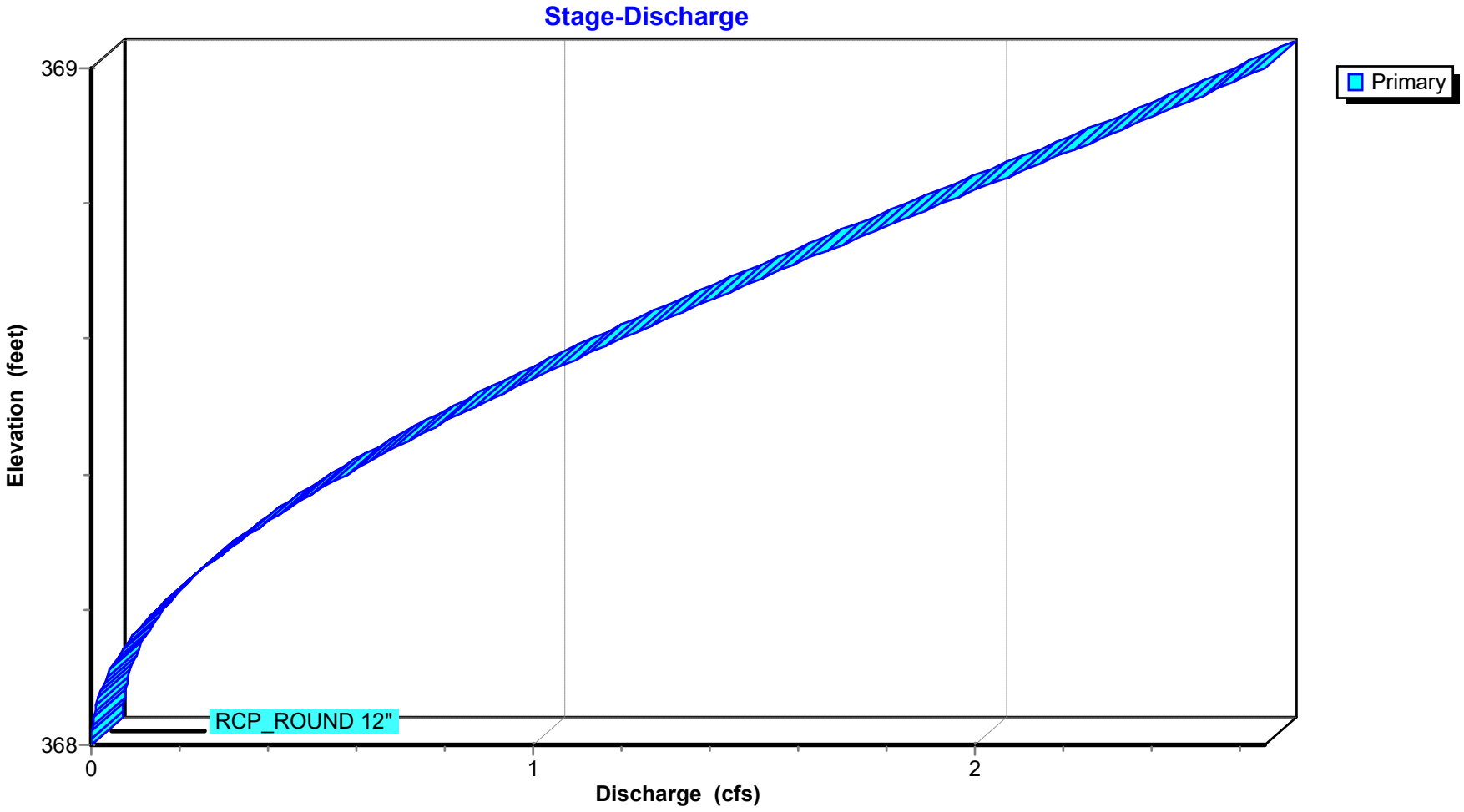
Pond CI-C1: CURB INLET C1

Hydrograph



Pond CI-C1: CURB INLET C1

Stage-Discharge



Stage-Area-Storage for Pond CI-C1: CURB INLET C1

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
368.00	**0.000**	368.92	0.000
368.01	0.000	368.93	0.000
368.02	0.000	368.94	0.000
368.03	0.000	368.95	0.000
368.04	0.000	368.96	0.000
368.05	0.000	368.97	0.000
368.06	0.000	368.98	0.000
368.07	0.000	368.99	0.000
368.08	0.000	369.00	0.000
368.09	0.000		
368.10	0.000		
368.11	0.000		
368.12	0.000		
368.13	0.000		
368.14	0.000		
368.15	0.000		
368.16	0.000		
368.17	0.000		
368.18	0.000		
368.19	0.000		
368.20	0.000		
368.21	0.000		
368.22	0.000		
368.23	0.000		
368.24	0.000		
368.25	0.000		
368.26	0.000		
368.27	0.000		
368.28	0.000		
368.29	0.000		
368.30	0.000		
368.31	0.000		
368.32	0.000		
368.33	0.000		
368.34	0.000		
368.35	0.000		
368.36	0.000		
368.37	0.000		
368.38	0.000		
368.39	0.000		
368.40	0.000		
368.41	0.000		
368.42	0.000		
368.43	0.000		
368.44	0.000		
368.45	0.000		
368.46	0.000		
368.47	0.000		
368.48	0.000		
368.49	0.000		
368.50	0.000		
368.51	0.000		
368.52	0.000		
368.53	0.000		
368.54	0.000		
368.55	0.000		
368.56	0.000		
368.57	0.000		
368.58	0.000		
368.59	0.000		
368.60	0.000		
368.61	0.000		
368.62	0.000		
368.63	0.000		
368.64	0.000		
368.65	0.000		
368.66	0.000		
368.67	0.000		
368.68	0.000		
368.69	0.000		
368.70	0.000		
368.71	0.000		
368.72	0.000		
368.73	0.000		
368.74	0.000		
368.75	0.000		
368.76	0.000		
368.77	0.000		
368.78	0.000		
368.79	0.000		
368.80	0.000		
368.81	0.000		
368.82	0.000		
368.83	0.000		
368.84	0.000		
368.85	0.000		
368.86	0.000		
368.87	0.000		
368.88	0.000		
368.89	0.000		
368.90	0.000		
368.91	0.000		

Summary for Pond CI-C2: CURB INLET C2

Inflow Area = 0.247 ac, 0.00% Impervious, Inflow Depth = 0.68" for 2-yr event
Inflow = 0.46 cfs @ 0.10 hrs, Volume= 0.014 af
Outflow = 0.46 cfs @ 0.10 hrs, Volume= 0.014 af, Atten= 0%, Lag= 0.0 min
Primary = 0.46 cfs @ 0.10 hrs, Volume= 0.014 af
Routed to Pond JB-C3 : JUNCTION BOX C3

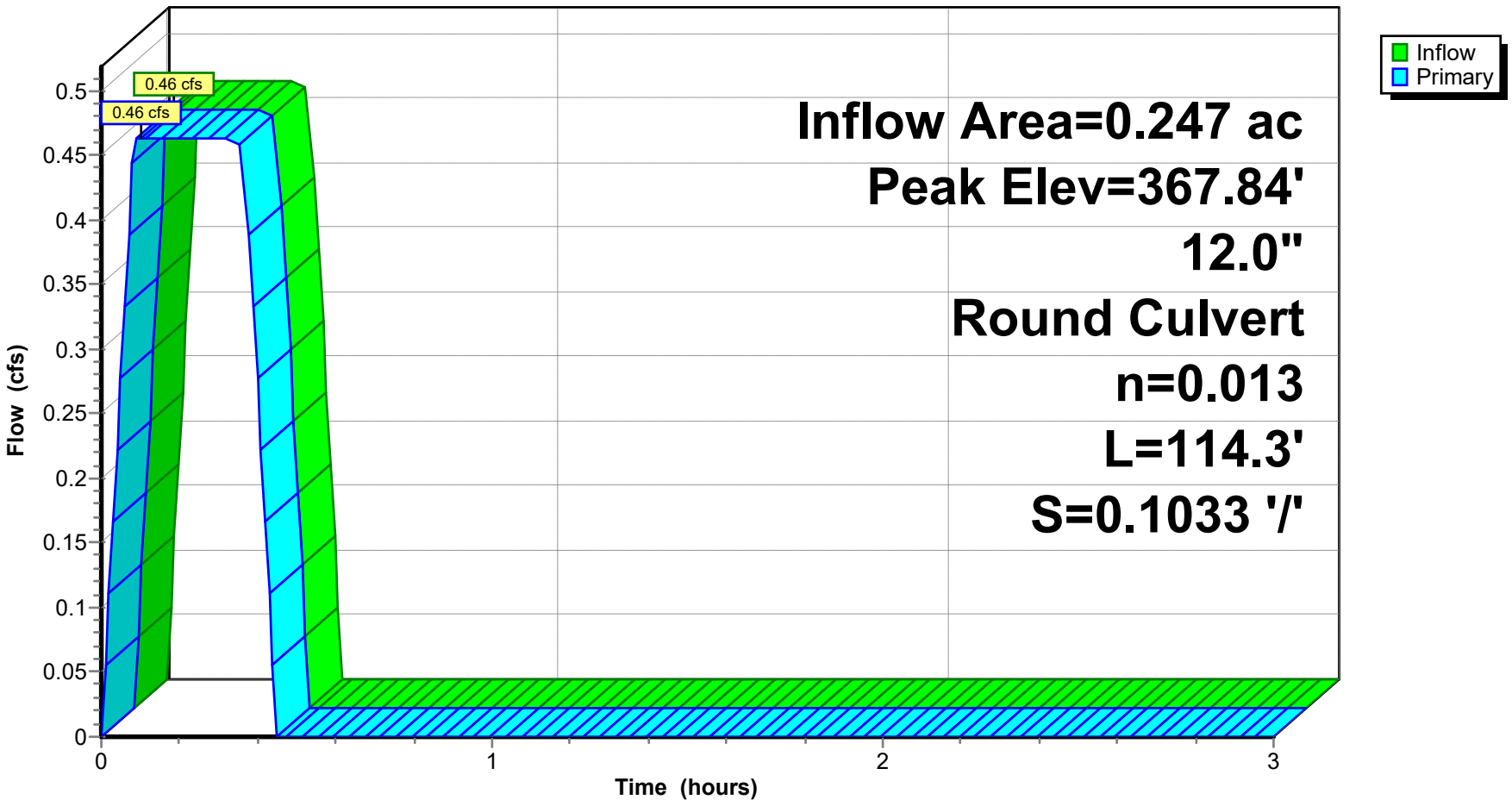
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 367.84' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	367.55'	**12.0" Round RCP_ROUND 12"** L= 114.3' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 367.55' / 355.74' S= 0.1033 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf

Primary OutFlow Max=0.46 cfs @ 0.10 hrs HW=367.84' (Free Discharge)
1=RCP_ROUND 12" (Inlet Controls 0.46 cfs @ 2.49 fps)

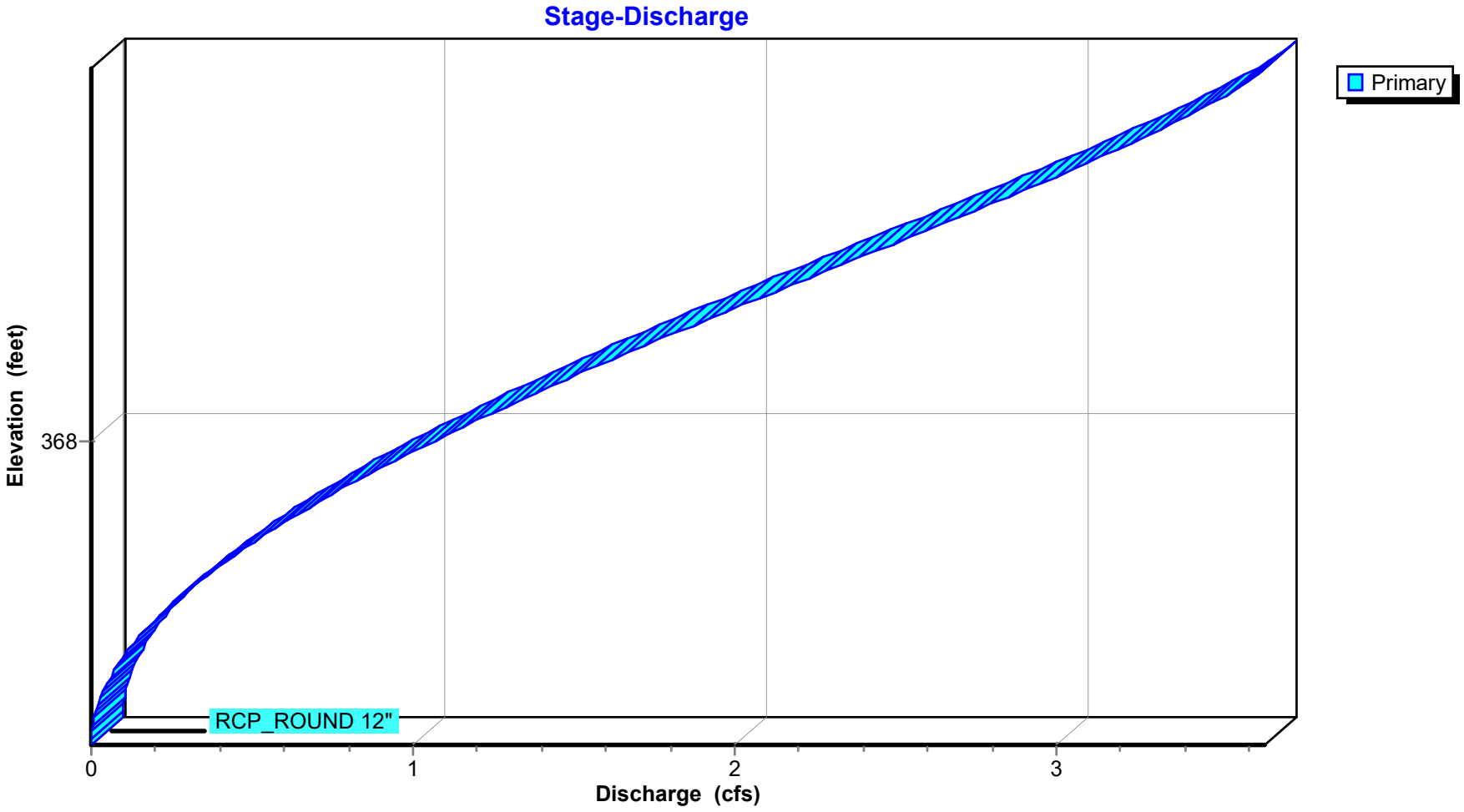
Pond CI-C2: CURB INLET C2

Hydrograph



Pond CI-C2: CURB INLET C2

Stage-Discharge



Stage-Area-Storage for Pond CI-C2: CURB INLET C2

Elevation (feet)	Storage (acre-feet)
367.55	**0.000**
367.56	0.000
367.57	0.000
367.58	0.000
367.59	0.000
367.60	0.000
367.61	0.000
367.62	0.000
367.63	0.000
367.64	0.000
367.65	0.000
367.66	0.000
367.67	0.000
367.68	0.000
367.69	0.000
367.70	0.000
367.71	0.000
367.72	0.000
367.73	0.000
367.74	0.000
367.75	0.000
367.76	0.000
367.77	0.000
367.78	0.000
367.79	0.000
367.80	0.000
367.81	0.000
367.82	0.000
367.83	0.000
367.84	0.000
367.85	0.000
367.86	0.000
367.87	0.000
367.88	0.000
367.89	0.000
367.90	0.000
367.91	0.000
367.92	0.000
367.93	0.000
367.94	0.000
367.95	0.000
367.96	0.000
367.97	0.000
367.98	0.000
367.99	0.000
368.00	0.000
368.01	0.000
368.02	0.000
368.03	0.000
368.04	0.000
368.05	0.000
368.06	0.000
368.07	0.000
368.08	0.000
368.09	0.000
368.10	0.000
368.11	0.000
368.12	0.000
368.13	0.000
368.14	0.000
368.15	0.000
368.16	0.000
368.17	0.000
368.18	0.000
368.19	0.000
368.20	0.000
368.21	0.000
368.22	0.000
368.23	0.000
368.24	0.000
368.25	0.000
368.26	0.000
368.27	0.000
368.28	0.000
368.29	0.000
368.30	0.000
368.31	0.000
368.32	0.000
368.33	0.000
368.34	0.000
368.35	0.000
368.36	0.000
368.37	0.000
368.38	0.000
368.39	0.000
368.40	0.000
368.41	0.000
368.42	0.000
368.43	0.000
368.44	0.000
368.45	0.000
368.46	0.000
368.47	0.000
368.48	0.000
368.49	0.000
368.50	0.000
368.51	0.000
368.52	0.000
368.53	0.000
368.54	0.000
368.55	0.000

Summary for Pond CI-C4: CURB INLET C4

Inflow Area = 0.965 ac, 0.00% Impervious, Inflow Depth = 0.68" for 2-yr event
Inflow = 1.82 cfs @ 0.10 hrs, Volume= 0.055 af
Outflow = 1.82 cfs @ 0.10 hrs, Volume= 0.055 af, Atten= 0%, Lag= 0.0 min
Primary = 1.82 cfs @ 0.10 hrs, Volume= 0.055 af
Routed to Pond CI-C5 : CURB INLET C5

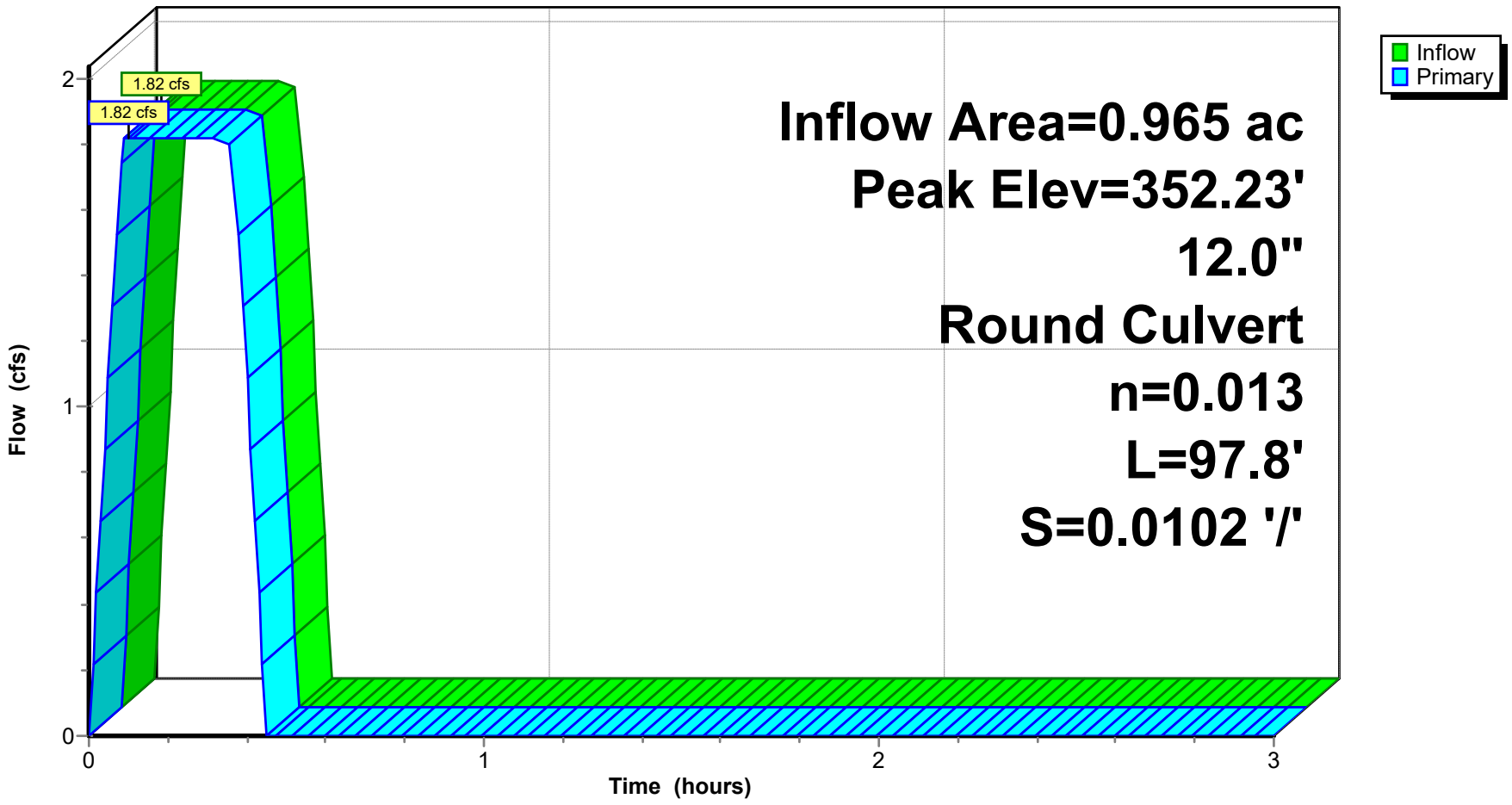
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 352.23' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	351.53'	**12.0" Round RCP_ROUND 12"** L= 97.8' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 351.53' / 350.53' S= 0.0102 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf

Primary OutFlow Max=1.82 cfs @ 0.10 hrs HW=352.23' (Free Discharge)
1=RCP_ROUND 12" (Barrel Controls 1.82 cfs @ 4.33 fps)

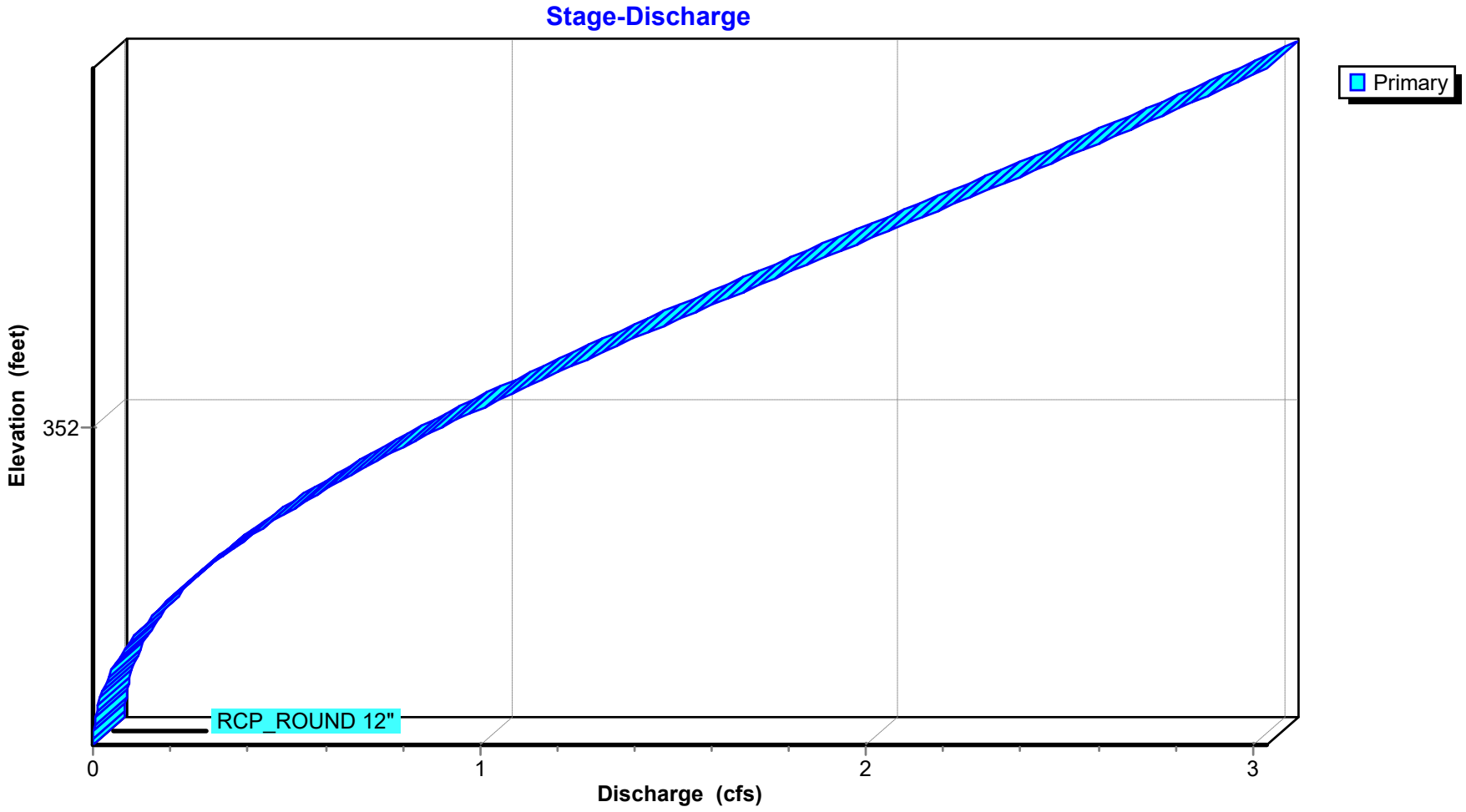
Pond CI-C4: CURB INLET C4

Hydrograph



Pond CI-C4: CURB INLET C4

Stage-Discharge



Stage-Area-Storage for Pond CI-C4: CURB INLET C4

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
351.53	**0.000**	352.45	0.000
351.54	0.000	352.46	0.000
351.55	0.000	352.47	0.000
351.56	0.000	352.48	0.000
351.57	0.000	352.49	0.000
351.58	0.000	352.50	0.000
351.59	0.000	352.51	0.000
351.60	0.000	352.52	0.000
351.61	0.000	352.53	0.000
351.62	0.000		
351.63	0.000		
351.64	0.000		
351.65	0.000		
351.66	0.000		
351.67	0.000		
351.68	0.000		
351.69	0.000		
351.70	0.000		
351.71	0.000		
351.72	0.000		
351.73	0.000		
351.74	0.000		
351.75	0.000		
351.76	0.000		
351.77	0.000		
351.78	0.000		
351.79	0.000		
351.80	0.000		
351.81	0.000		
351.82	0.000		
351.83	0.000		
351.84	0.000		
351.85	0.000		
351.86	0.000		
351.87	0.000		
351.88	0.000		
351.89	0.000		
351.90	0.000		
351.91	0.000		
351.92	0.000		
351.93	0.000		
351.94	0.000		
351.95	0.000		
351.96	0.000		
351.97	0.000		
351.98	0.000		
351.99	0.000		
352.00	0.000		
352.01	0.000		
352.02	0.000		
352.03	0.000		
352.04	0.000		
352.05	0.000		
352.06	0.000		
352.07	0.000		
352.08	0.000		
352.09	0.000		
352.10	0.000		
352.11	0.000		
352.12	0.000		
352.13	0.000		
352.14	0.000		
352.15	0.000		
352.16	0.000		
352.17	0.000		
352.18	0.000		
352.19	0.000		
352.20	0.000		
352.21	0.000		
352.22	0.000		
352.23	0.000		
352.24	0.000		
352.25	0.000		
352.26	0.000		
352.27	0.000		
352.28	0.000		
352.29	0.000		
352.30	0.000		
352.31	0.000		
352.32	0.000		
352.33	0.000		
352.34	0.000		
352.35	0.000		
352.36	0.000		
352.37	0.000		
352.38	0.000		
352.39	0.000		
352.40	0.000		
352.41	0.000		
352.42	0.000		
352.43	0.000		
352.44	0.000		

Summary for Pond CI-C5: CURB INLET C5

Inflow Area = 1.429 ac, 0.00% Impervious, Inflow Depth = 0.67" for 2-yr event
Inflow = 2.62 cfs @ 0.10 hrs, Volume= 0.079 af
Outflow = 2.62 cfs @ 0.10 hrs, Volume= 0.079 af, Atten= 0%, Lag= 0.0 min
Primary = 2.62 cfs @ 0.10 hrs, Volume= 0.079 af
Routed to Link POST-DEV : Post-Development

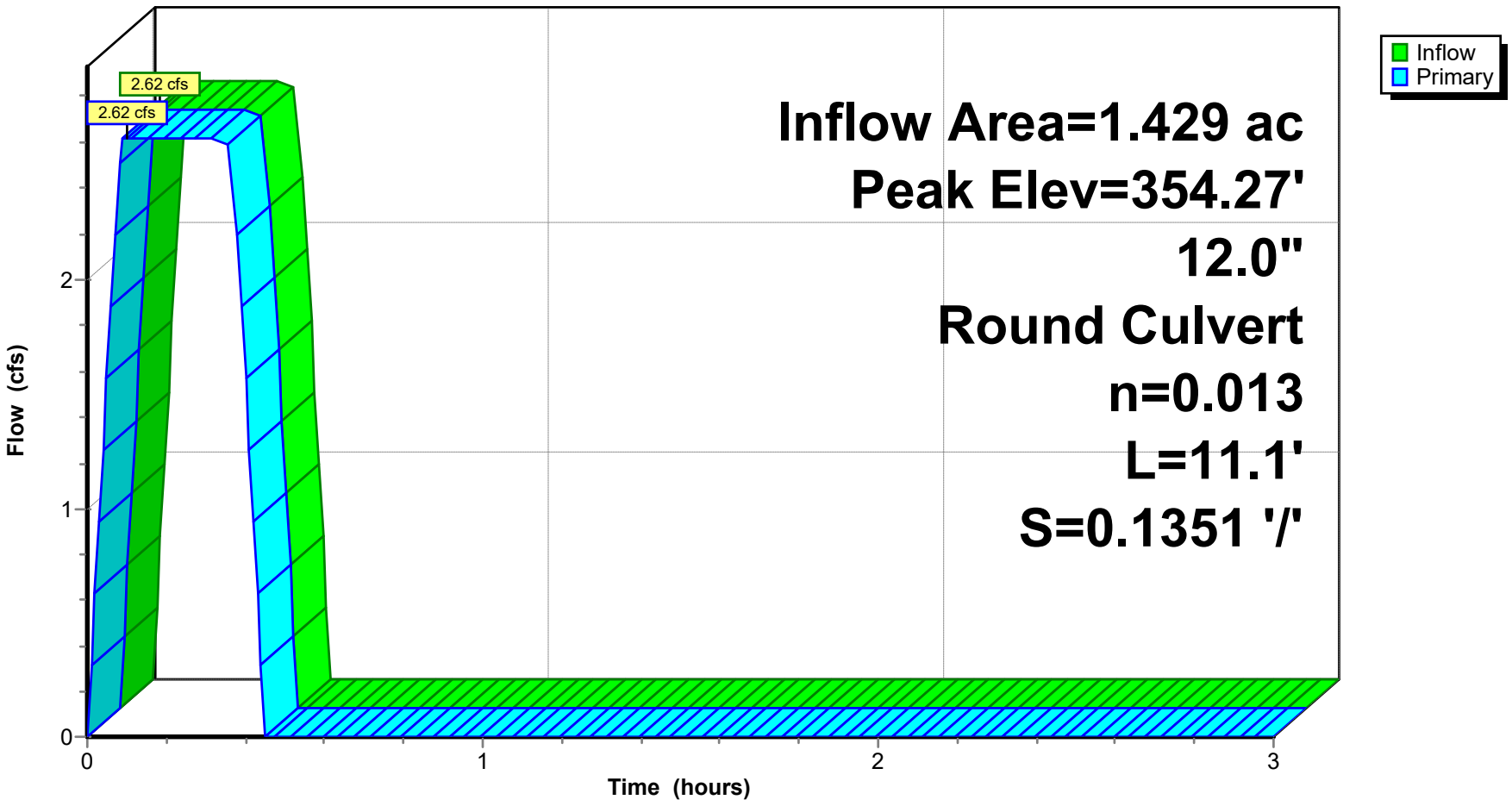
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 354.27' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	353.50'	**12.0" Round RCP_ROUND 12"** L= 11.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 353.50' / 352.00' S= 0.1351 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf

Primary OutFlow Max=2.62 cfs @ 0.10 hrs HW=354.27' (Free Discharge)
1=RCP_ROUND 12" (Inlet Controls 2.62 cfs @ 4.06 fps)

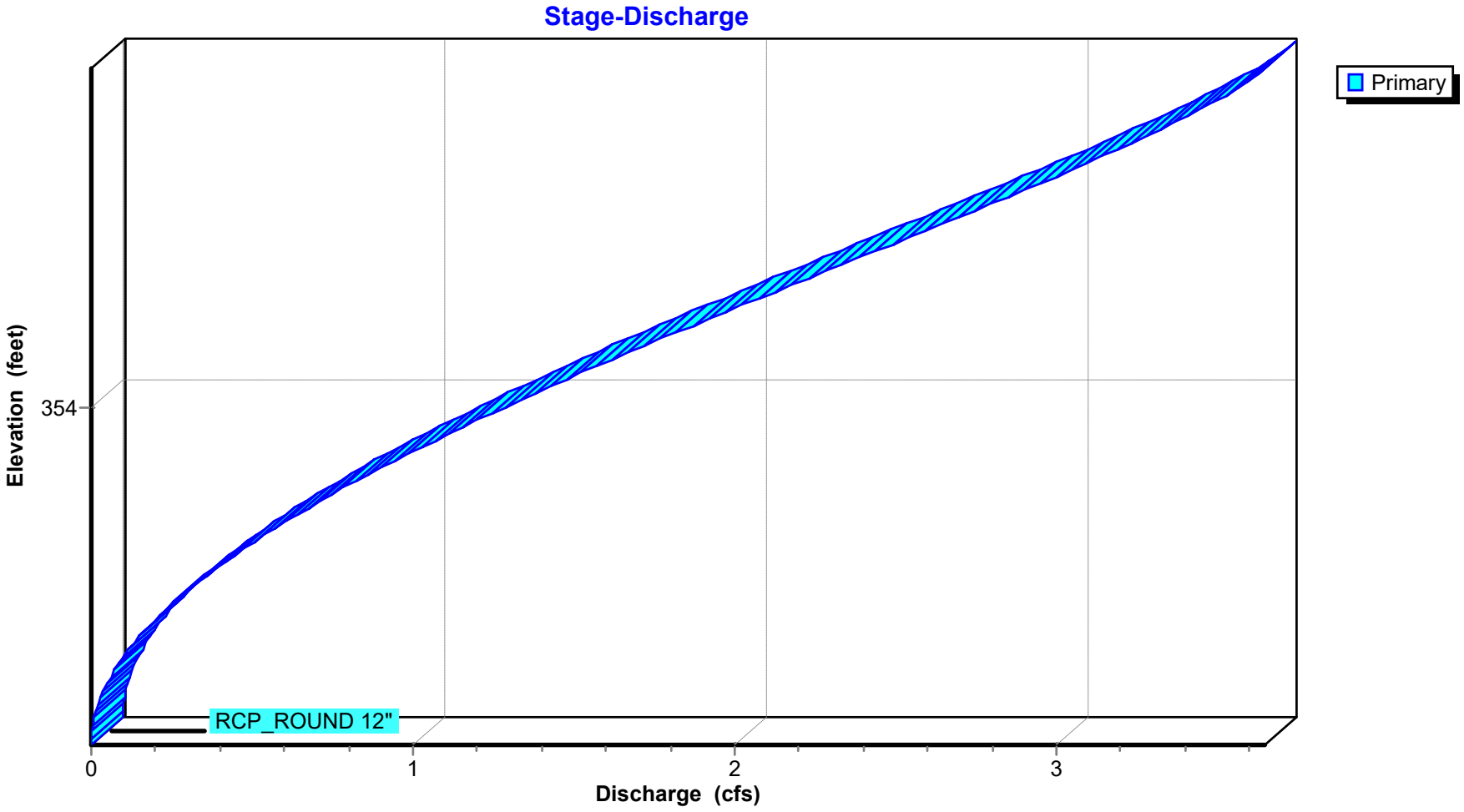
Pond CI-C5: CURB INLET C5

Hydrograph



Pond CI-C5: CURB INLET C5

Stage-Discharge



Stage-Area-Storage for Pond CI-C5: CURB INLET C5

Elevation (feet)	Storage (acre-feet)
353.50	**0.000**
353.51	0.000
353.52	0.000
353.53	0.000
353.54	0.000
353.55	0.000
353.56	0.000
353.57	0.000
353.58	0.000
353.59	0.000
353.60	0.000
353.61	0.000
353.62	0.000
353.63	0.000
353.64	0.000
353.65	0.000
353.66	0.000
353.67	0.000
353.68	0.000
353.69	0.000
353.70	0.000
353.71	0.000
353.72	0.000
353.73	0.000
353.74	0.000
353.75	0.000
353.76	0.000
353.77	0.000
353.78	0.000
353.79	0.000
353.80	0.000
353.81	0.000
353.82	0.000
353.83	0.000
353.84	0.000
353.85	0.000
353.86	0.000
353.87	0.000
353.88	0.000
353.89	0.000
353.90	0.000
353.91	0.000
353.92	0.000
353.93	0.000
353.94	0.000
353.95	0.000
353.96	0.000
353.97	0.000
353.98	0.000
353.99	0.000
354.00	0.000
354.01	0.000
354.02	0.000
354.03	0.000
354.04	0.000
354.05	0.000
354.06	0.000
354.07	0.000
354.08	0.000
354.09	0.000
354.10	0.000
354.11	0.000
354.12	0.000
354.13	0.000
354.14	0.000
354.15	0.000
354.16	0.000
354.17	0.000
354.18	0.000
354.19	0.000
354.20	0.000
354.21	0.000
354.22	0.000
354.23	0.000
354.24	0.000
354.25	0.000
354.26	0.000
354.27	0.000
354.28	0.000
354.29	0.000
354.30	0.000
354.31	0.000
354.32	0.000
354.33	0.000
354.34	0.000
354.35	0.000
354.36	0.000
354.37	0.000
354.38	0.000
354.39	0.000
354.40	0.000
354.41	0.000

Elevation (feet)	Storage (acre-feet)
354.42	0.000
354.43	0.000
354.44	0.000
354.45	0.000
354.46	0.000
354.47	0.000
354.48	0.000
354.49	0.000
354.50	0.000

Summary for Pond CI-D1: CURB INLET D1

Inflow Area = 0.627 ac, 0.00% Impervious, Inflow Depth = 0.66" for 2-yr event
Inflow = 1.14 cfs @ 0.09 hrs, Volume= 0.035 af
Outflow = 1.14 cfs @ 0.09 hrs, Volume= 0.035 af, Atten= 0%, Lag= 0.0 min
Primary = 1.14 cfs @ 0.09 hrs, Volume= 0.035 af
Routed to Pond CI-C4 : CURB INLET C4

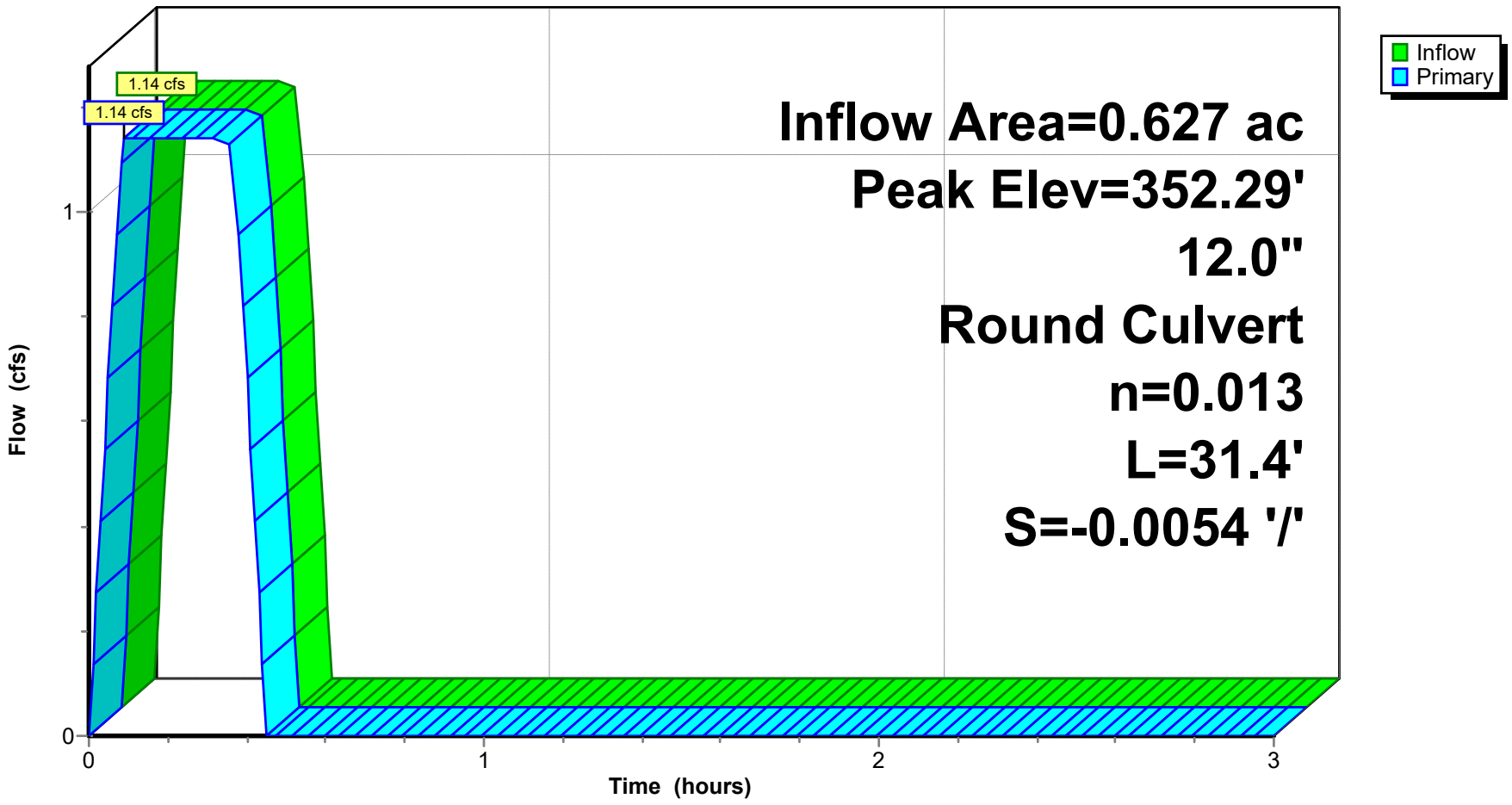
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 352.29' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	351.70'	**12.0" Round RCP_ROUND 12"** L= 31.4' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 351.53' / 351.70' S= -0.0054 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf

Primary OutFlow Max=1.14 cfs @ 0.09 hrs HW=352.29' (Free Discharge)
↑—**1=RCP_ROUND 12"** (Barrel Controls 1.14 cfs @ 2.48 fps)

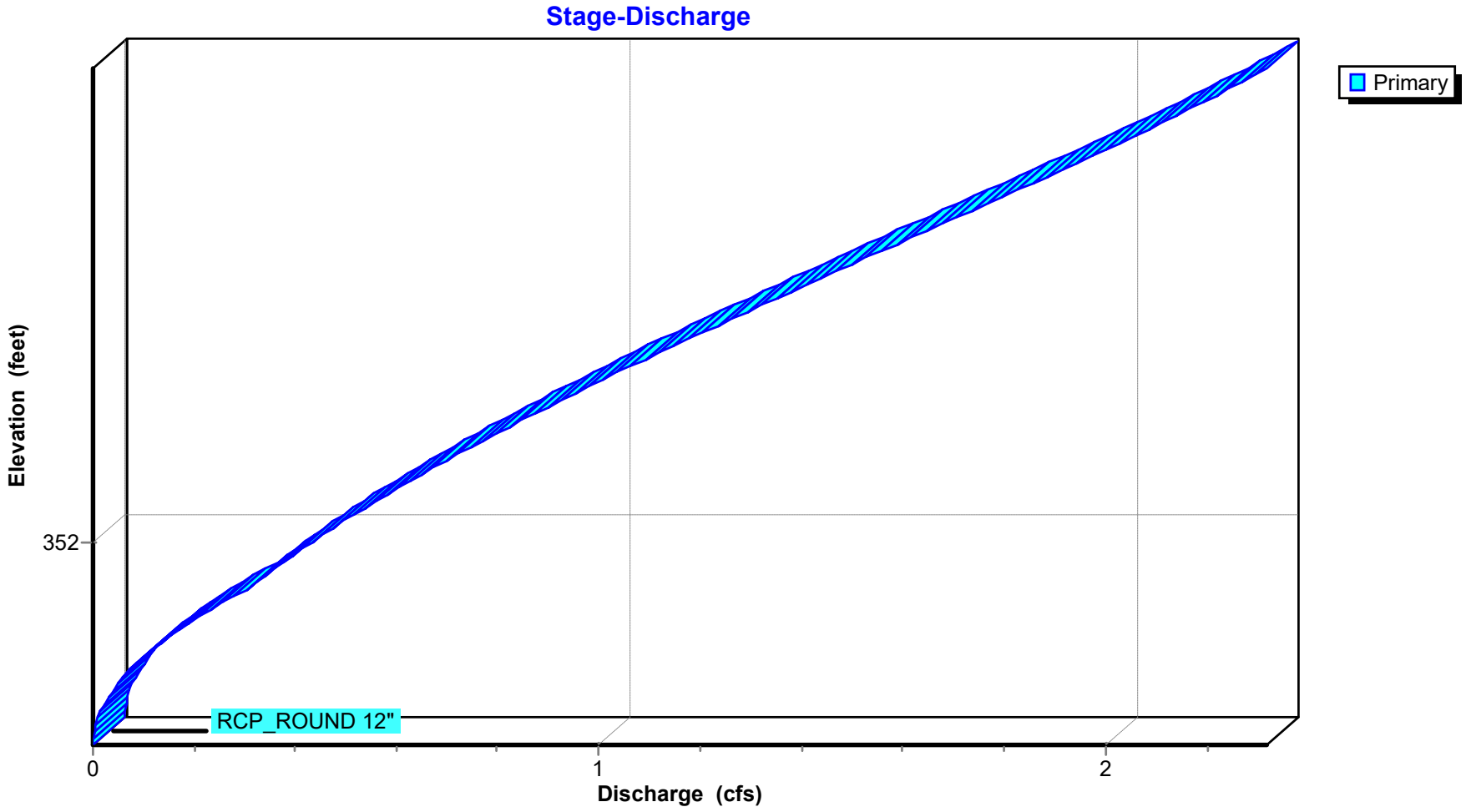
Pond CI-D1: CURB INLET D1

Hydrograph



Pond CI-D1: CURB INLET D1

Stage-Discharge



Stage-Area-Storage for Pond CI-D1: CURB INLET D1

Elevation (feet)	Storage (acre-feet)
351.70	**0.000**
351.71	0.000
351.72	0.000
351.73	0.000
351.74	0.000
351.75	0.000
351.76	0.000
351.77	0.000
351.78	0.000
351.79	0.000
351.80	0.000
351.81	0.000
351.82	0.000
351.83	0.000
351.84	0.000
351.85	0.000
351.86	0.000
351.87	0.000
351.88	0.000
351.89	0.000
351.90	0.000
351.91	0.000
351.92	0.000
351.93	0.000
351.94	0.000
351.95	0.000
351.96	0.000
351.97	0.000
351.98	0.000
351.99	0.000
352.00	0.000
352.01	0.000
352.02	0.000
352.03	0.000
352.04	0.000
352.05	0.000
352.06	0.000
352.07	0.000
352.08	0.000
352.09	0.000
352.10	0.000
352.11	0.000
352.12	0.000
352.13	0.000
352.14	0.000
352.15	0.000
352.16	0.000
352.17	0.000
352.18	0.000
352.19	0.000
352.20	0.000
352.21	0.000
352.22	0.000
352.23	0.000
352.24	0.000
352.25	0.000
352.26	0.000
352.27	0.000
352.28	0.000
352.29	0.000
352.30	0.000
352.31	0.000
352.32	0.000
352.33	0.000
352.34	0.000
352.35	0.000
352.36	0.000
352.37	0.000
352.38	0.000
352.39	0.000
352.40	0.000
352.41	0.000
352.42	0.000
352.43	0.000
352.44	0.000
352.45	0.000
352.46	0.000
352.47	0.000
352.48	0.000
352.49	0.000
352.50	0.000
352.51	0.000
352.52	0.000
352.53	0.000
352.54	0.000
352.55	0.000
352.56	0.000
352.57	0.000
352.58	0.000
352.59	0.000
352.60	0.000
352.61	0.000
352.62	0.000
352.63	0.000
352.64	0.000
352.65	0.000
352.66	0.000
352.67	0.000
352.68	0.000
352.69	0.000
352.70	0.000

Summary for Pond JB-C3: JUNCTION BOX C3

Inflow Area = 0.247 ac, 0.00% Impervious, Inflow Depth = 0.68" for 2-yr event
Inflow = 0.46 cfs @ 0.10 hrs, Volume= 0.014 af
Outflow = 0.46 cfs @ 0.10 hrs, Volume= 0.014 af, Atten= 0%, Lag= 0.0 min
Primary = 0.46 cfs @ 0.10 hrs, Volume= 0.014 af
Routed to Pond CI-C4 : CURB INLET C4

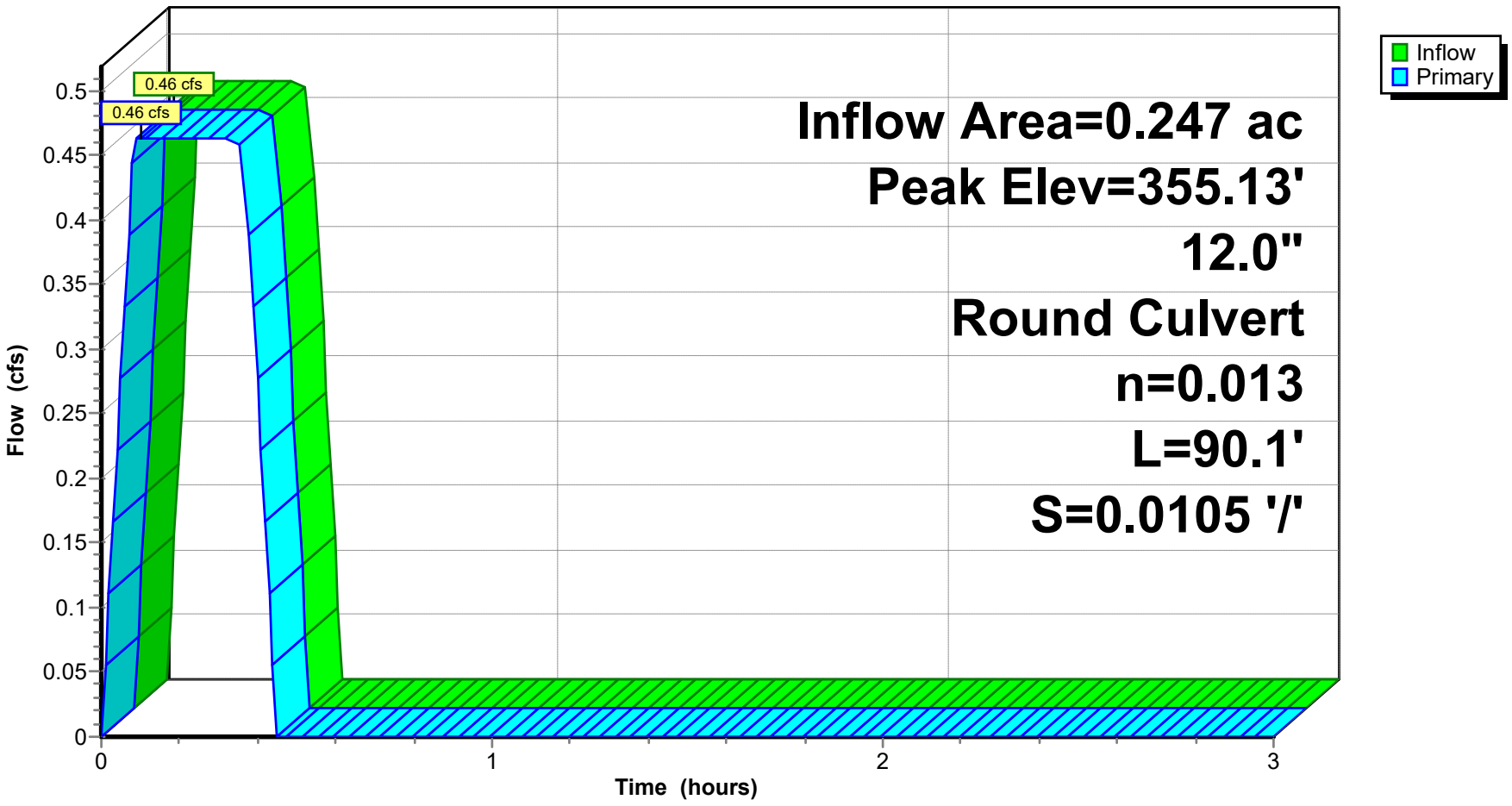
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 355.13' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	354.80'	**12.0" Round RCP_ROUND 12"** L= 90.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 354.80' / 353.85' S= 0.0105 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf

Primary OutFlow Max=0.46 cfs @ 0.10 hrs HW=355.13' (Free Discharge)
1=RCP_ROUND 12" (Barrel Controls 0.46 cfs @ 3.09 fps)

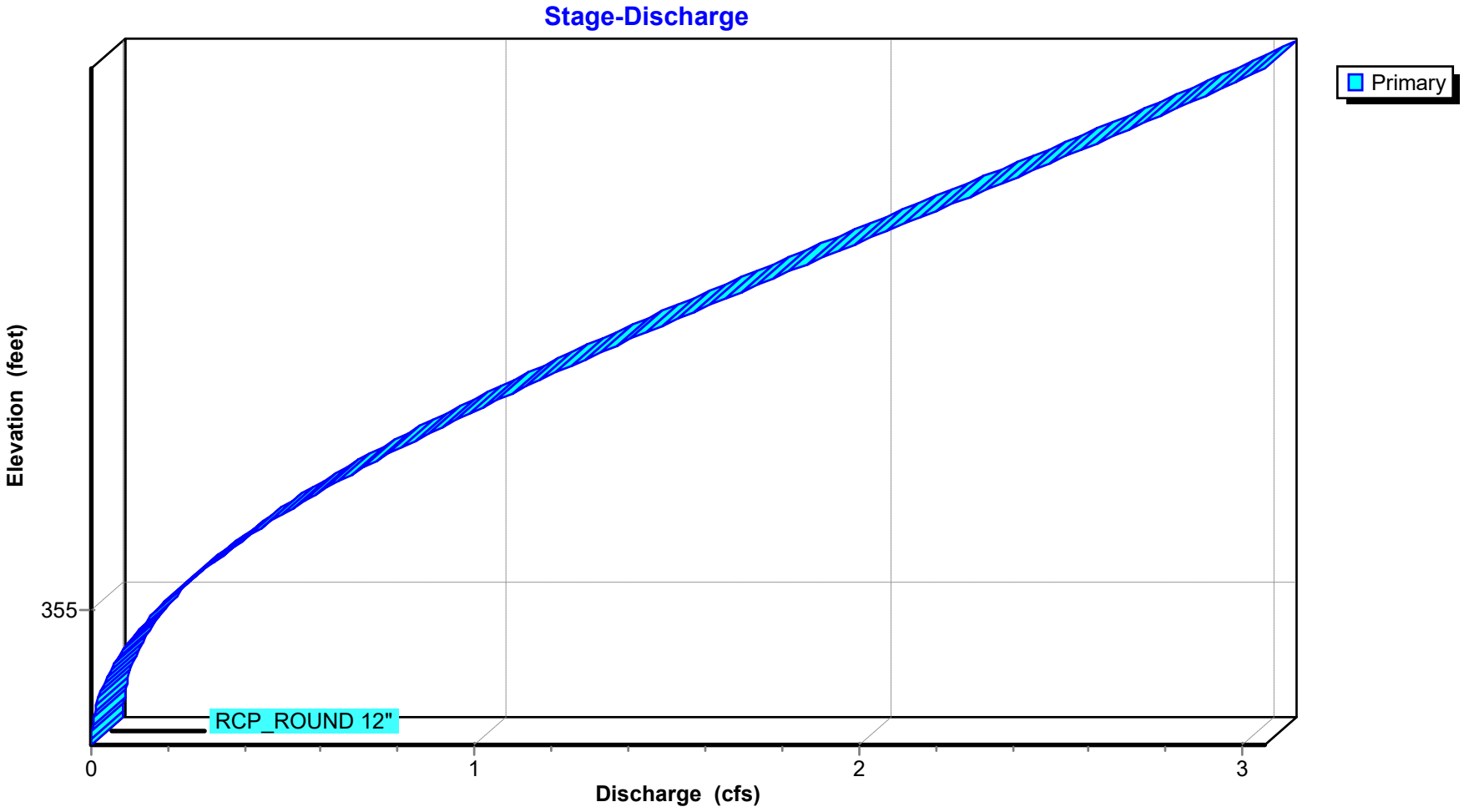
Pond JB-C3: JUNCTION BOX C3

Hydrograph



Pond JB-C3: JUNCTION BOX C3

Stage-Discharge



Stage-Area-Storage for Pond JB-C3: JUNCTION BOX C3

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
354.80	**0.000**	355.72	0.000
354.81	0.000	355.73	0.000
354.82	0.000	355.74	0.000
354.83	0.000	355.75	0.000
354.84	0.000	355.76	0.000
354.85	0.000	355.77	0.000
354.86	0.000	355.78	0.000
354.87	0.000	355.79	0.000
354.88	0.000	355.80	0.000
354.89	0.000		
354.90	0.000		
354.91	0.000		
354.92	0.000		
354.93	0.000		
354.94	0.000		
354.95	0.000		
354.96	0.000		
354.97	0.000		
354.98	0.000		
354.99	0.000		
355.00	0.000		
355.01	0.000		
355.02	0.000		
355.03	0.000		
355.04	0.000		
355.05	0.000		
355.06	0.000		
355.07	0.000		
355.08	0.000		
355.09	0.000		
355.10	0.000		
355.11	0.000		
355.12	0.000		
355.13	0.000		
355.14	0.000		
355.15	0.000		
355.16	0.000		
355.17	0.000		
355.18	0.000		
355.19	0.000		
355.20	0.000		
355.21	0.000		
355.22	0.000		
355.23	0.000		
355.24	0.000		
355.25	0.000		
355.26	0.000		
355.27	0.000		
355.28	0.000		
355.29	0.000		
355.30	0.000		
355.31	0.000		
355.32	0.000		
355.33	0.000		
355.34	0.000		
355.35	0.000		
355.36	0.000		
355.37	0.000		
355.38	0.000		
355.39	0.000		
355.40	0.000		
355.41	0.000		
355.42	0.000		
355.43	0.000		
355.44	0.000		
355.45	0.000		
355.46	0.000		
355.47	0.000		
355.48	0.000		
355.49	0.000		
355.50	0.000		
355.51	0.000		
355.52	0.000		
355.53	0.000		
355.54	0.000		
355.55	0.000		
355.56	0.000		
355.57	0.000		
355.58	0.000		
355.59	0.000		
355.60	0.000		
355.61	0.000		
355.62	0.000		
355.63	0.000		
355.64	0.000		
355.65	0.000		
355.66	0.000		
355.67	0.000		
355.68	0.000		
355.69	0.000		
355.70	0.000		
355.71	0.000		

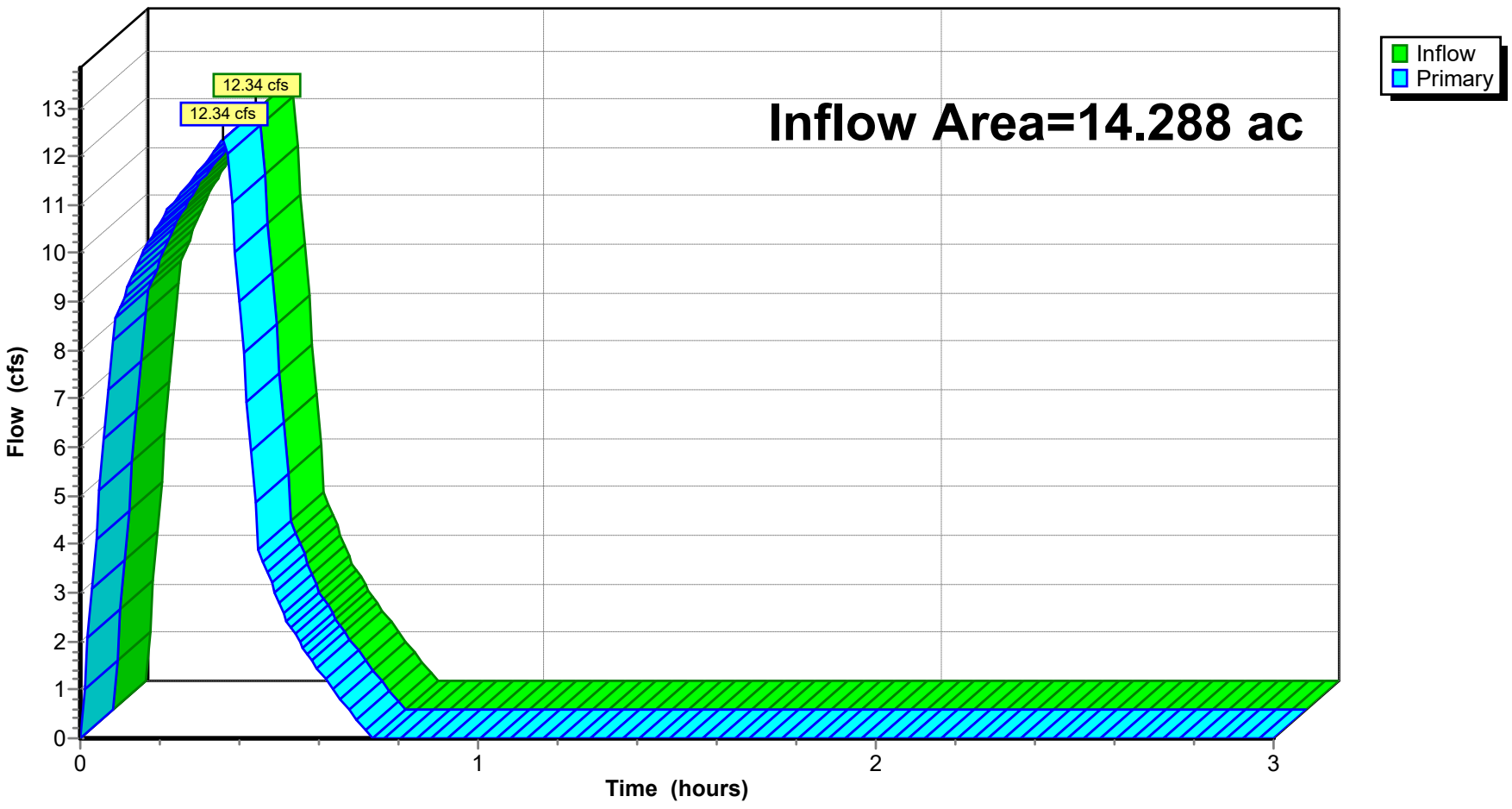
Summary for Link POST-DEV: Post-Development

Inflow Area = 14.288 ac, 0.00% Impervious, Inflow Depth = 0.32" for 2-yr event
Inflow = 12.34 cfs @ 0.36 hrs, Volume= 0.376 af
Primary = 12.34 cfs @ 0.36 hrs, Volume= 0.376 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Link POST-DEV: Post-Development

Hydrograph



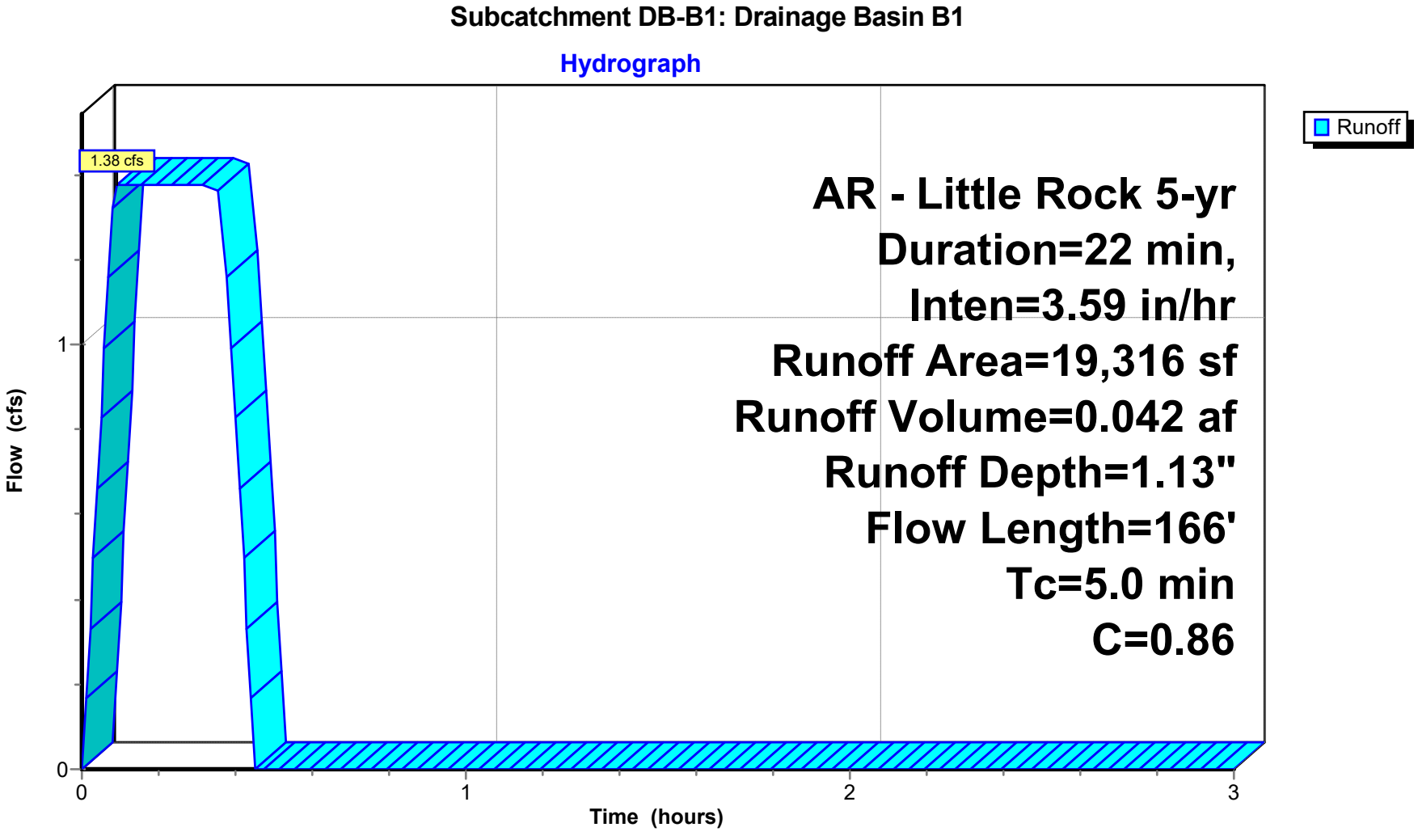
Summary for Subcatchment DB-B1: Drainage Basin B1

Runoff = 1.38 cfs @ 0.09 hrs, Volume= 0.042 af, Depth= 1.13"
Routed to Pond CI-A1 : CURB INLET A1

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 5-yr Duration=22 min, Inten=3.59 in/hr

Area (sf)	C	Description
1,941	0.30	Sandy Soil 2-7% per manual
17,375	0.92	Paved Areas
19,316	0.86	Weighted Average
19,316		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.5	33	0.0200	0.16		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
0.6	67	0.0350	1.82		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.5	66	0.0100	2.03		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
0.4					**Direct Entry, Minimum Adjustment**
5.0	166	Total			



Summary for Subcatchment DB-B10: Drainage Basin B10

Runoff = 0.25 cfs @ 0.09 hrs, Volume= 0.008 af, Depth= 1.01"
Routed to Pond CI-C4 : CURB INLET C4

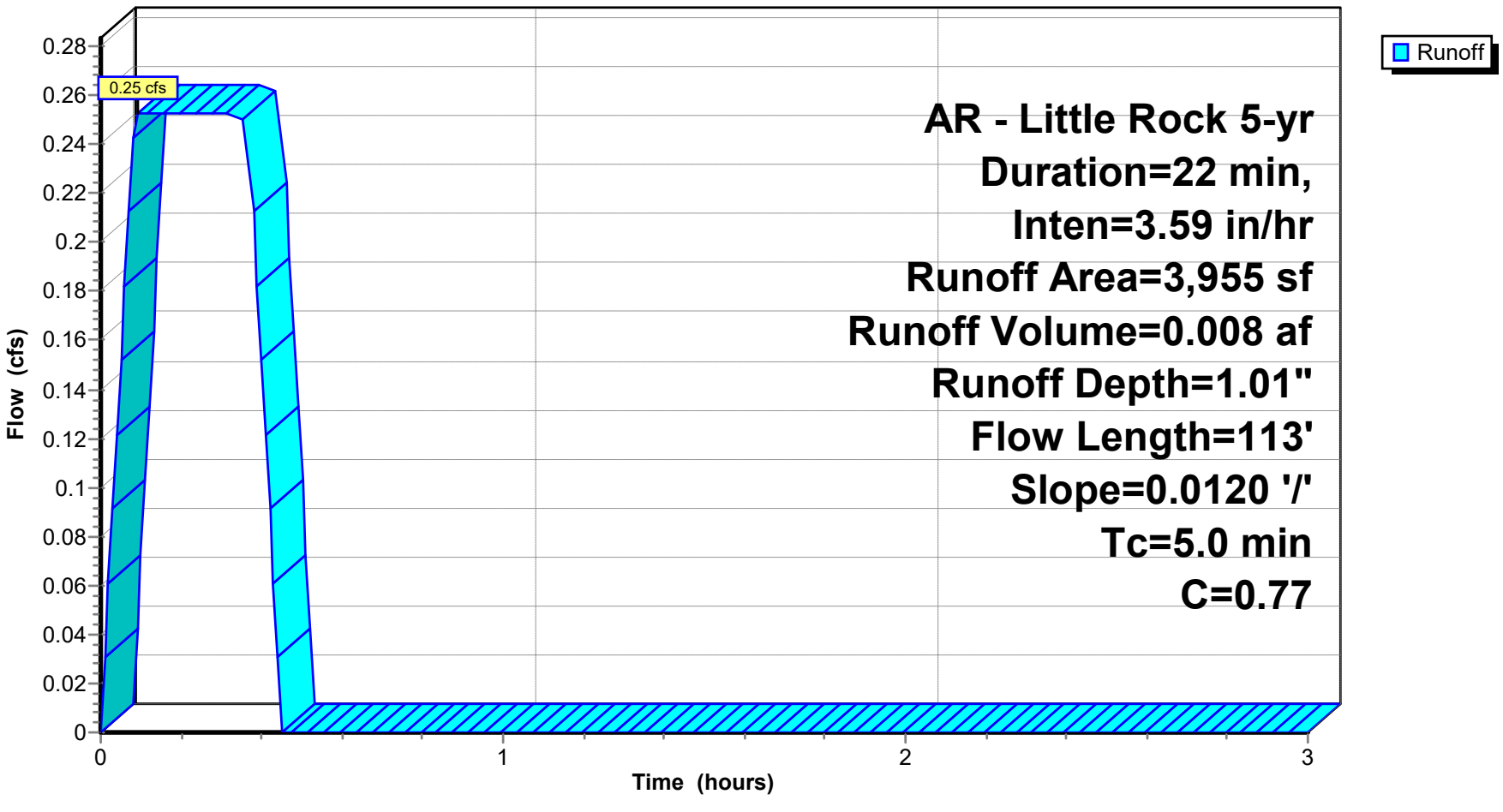
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 5-yr Duration=22 min, Inten=3.59 in/hr

Area (sf)	C	Description
959	0.30	Sandy Soil 2-7% per manual
2,996	0.92	Paved Areas
3,955	0.77	Weighted Average
3,955		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.4	113	0.0120	1.32		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
3.6					**Direct Entry, Minimum Adjustment**
5.0	113	Total			

Subcatchment DB-B10: Drainage Basin B10

Hydrograph



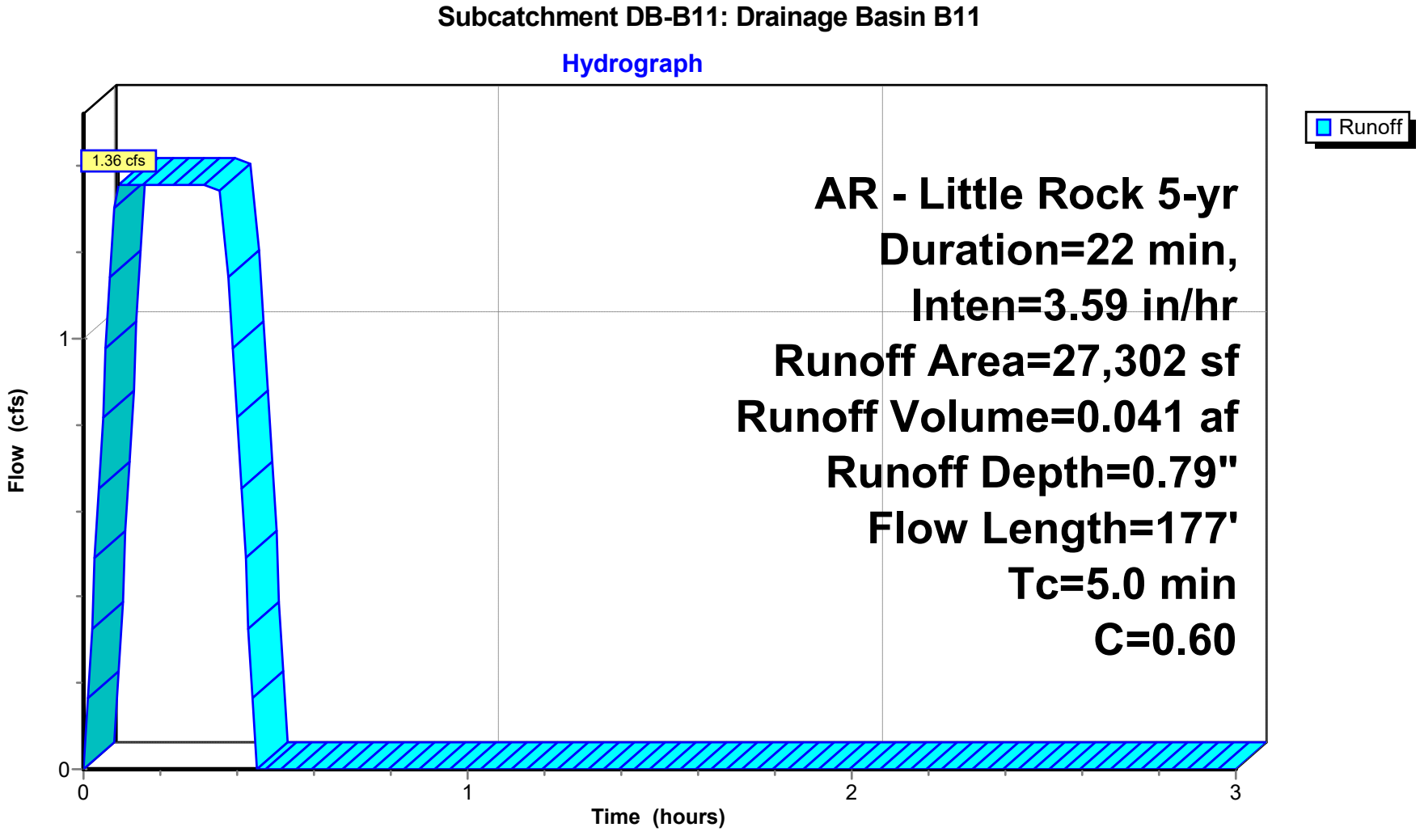
Summary for Subcatchment DB-B11: Drainage Basin B11

Runoff = 1.36 cfs @ 0.09 hrs, Volume= 0.041 af, Depth= 0.79"
Routed to Pond CI-D1 : CURB INLET D1

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 5-yr Duration=22 min, Inten=3.59 in/hr

Area (sf)	C	Description
15,547	0.35	Sandy Soil 2-7% per manual
11,755	0.92	Paved Areas
27,302	0.60	Weighted Average
27,302		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.2	65	0.3300	4.44		**Sheet Flow, Roof** Smooth surfaces n= 0.011 P2= 4.20"
0.2	69	0.1750	6.27		**Shallow Concentrated Flow, Greenspace** Grassed Waterway Kv= 15.0 fps
0.2	43	0.0500	4.54		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
4.4					**Direct Entry, Minimum Adjustment**
5.0	177	Total			



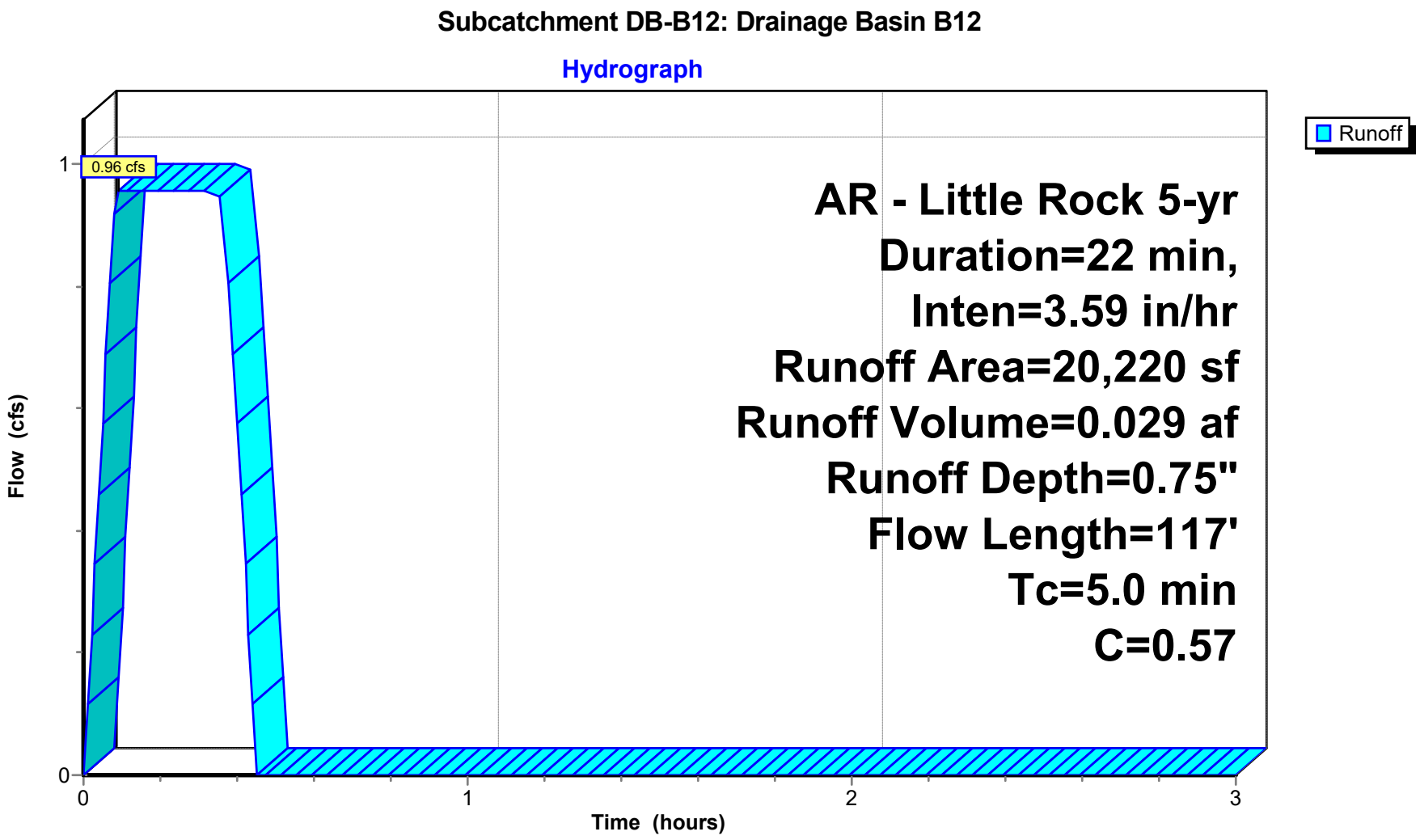
Summary for Subcatchment DB-B12: Drainage Basin B12

Runoff = 0.96 cfs @ 0.09 hrs, Volume= 0.029 af, Depth= 0.75"
Routed to Pond CI-C5 : CURB INLET C5

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 5-yr Duration=22 min, Inten=3.59 in/hr

Area (sf)	C	Description
11,502	0.30	Sandy Soil 2-7% per manual
8,718	0.92	Paved Areas
20,220	0.57	Weighted Average
20,220		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.0	26	0.0500	0.21		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
1.5	38	0.2360	0.43		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
1.1	28	0.2390	0.41		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
0.4	25	0.0180	1.15		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
5.0	117	Total			



Summary for Subcatchment DB-B13: DRAINAGE BASIN B13

Runoff = 4.47 cfs @ 0.37 hrs, Volume= 0.137 af, Depth= 0.17"
Routed to Link POST-DEV : Post-Development

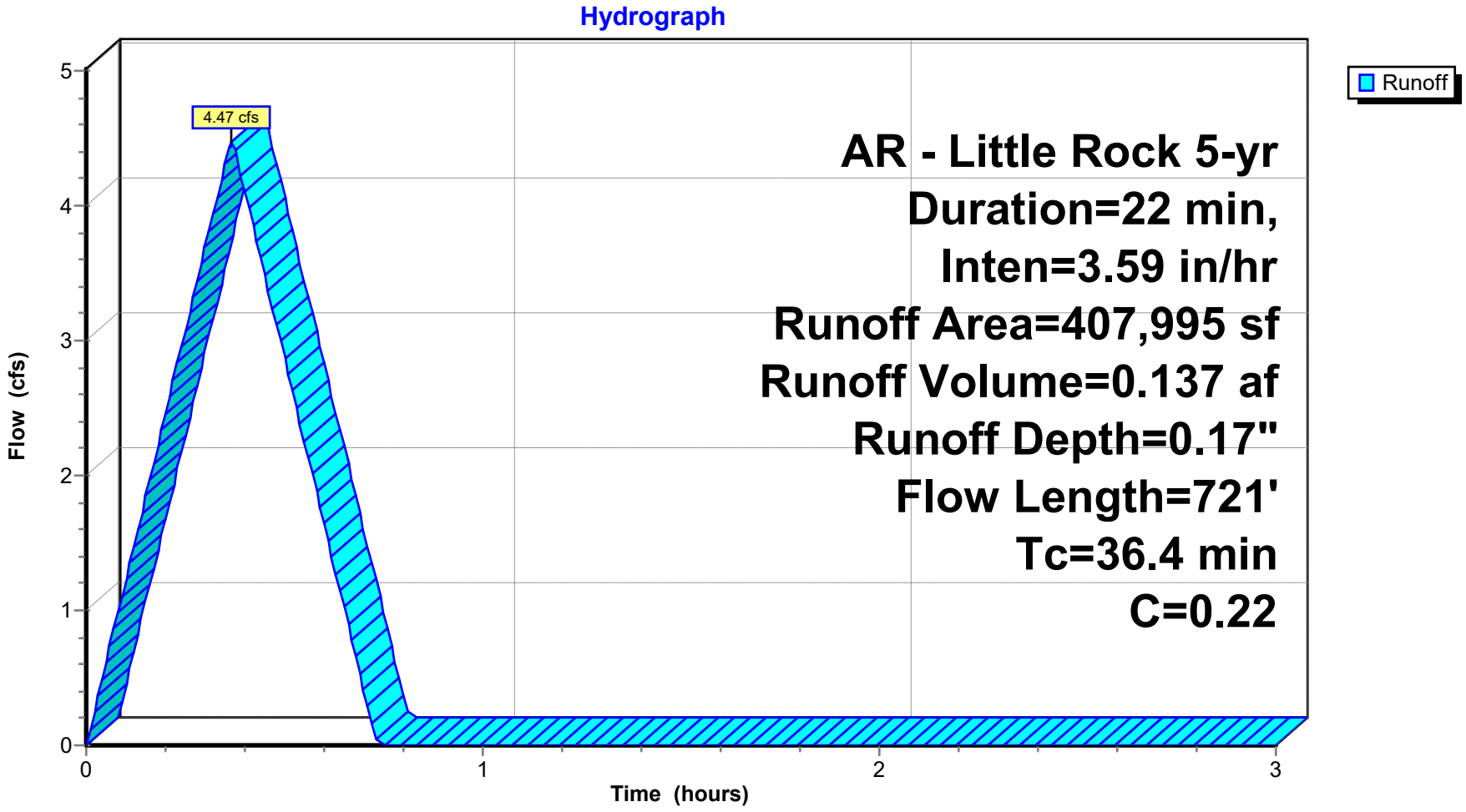
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 5-yr Duration=22 min, Inten=3.59 in/hr

Area (sf)	C	Description
407,995	0.22	Sandy Soil 2-7% Per Manual
407,995		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.5	67	0.6600	0.73		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
1.2	46	0.5900	0.65		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
3.2	147	0.5100	0.77		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
1.8	63	0.3800	0.58		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
8.5	70	0.0100	0.14		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
4.8	163	0.2200	0.56		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
2.4	65	0.2000	0.45		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
6.3	48	0.0100	0.13		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
6.7	52	0.0100	0.13		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
36.4	721	Total			

Subcatchment DB-B13: DRAINAGE BASIN B13

Hydrograph



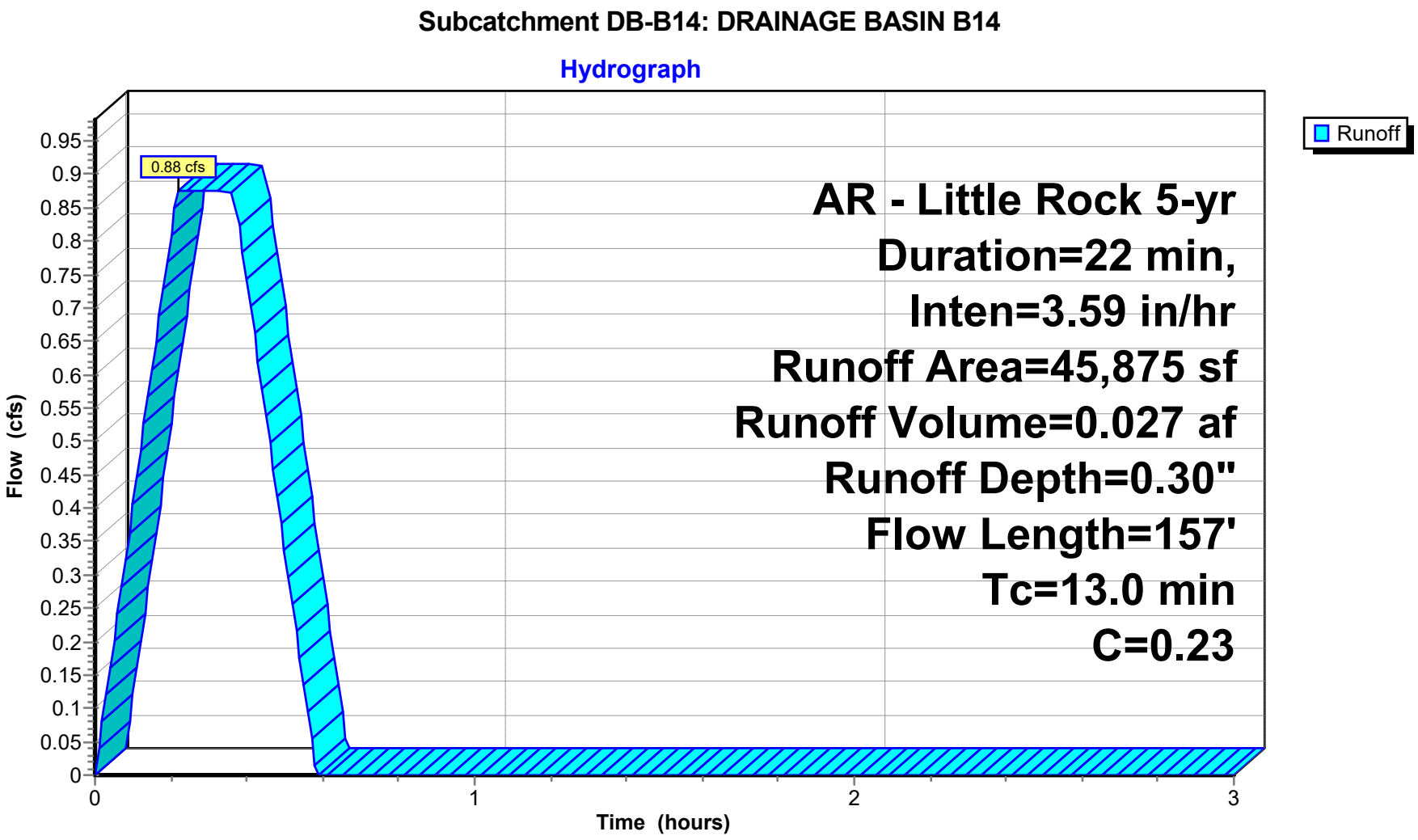
Summary for Subcatchment DB-B14: DRAINAGE BASIN B14

Runoff = 0.88 cfs @ 0.22 hrs, Volume= 0.027 af, Depth= 0.30"
Routed to Link POST-DEV : Post-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 5-yr Duration=22 min, Inten=3.59 in/hr

Area (sf)	C	Description
45,016	0.22	Sandy Soil 2-7% Per Manual
859	0.92	Paved Areas
45,875	0.23	Weighted Average
45,875		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.5	15	0.0100	0.10		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
5.2	78	0.0420	0.25		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
2.8	38	0.0480	0.23		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
2.5	26	0.0280	0.17		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
13.0	157	Total			



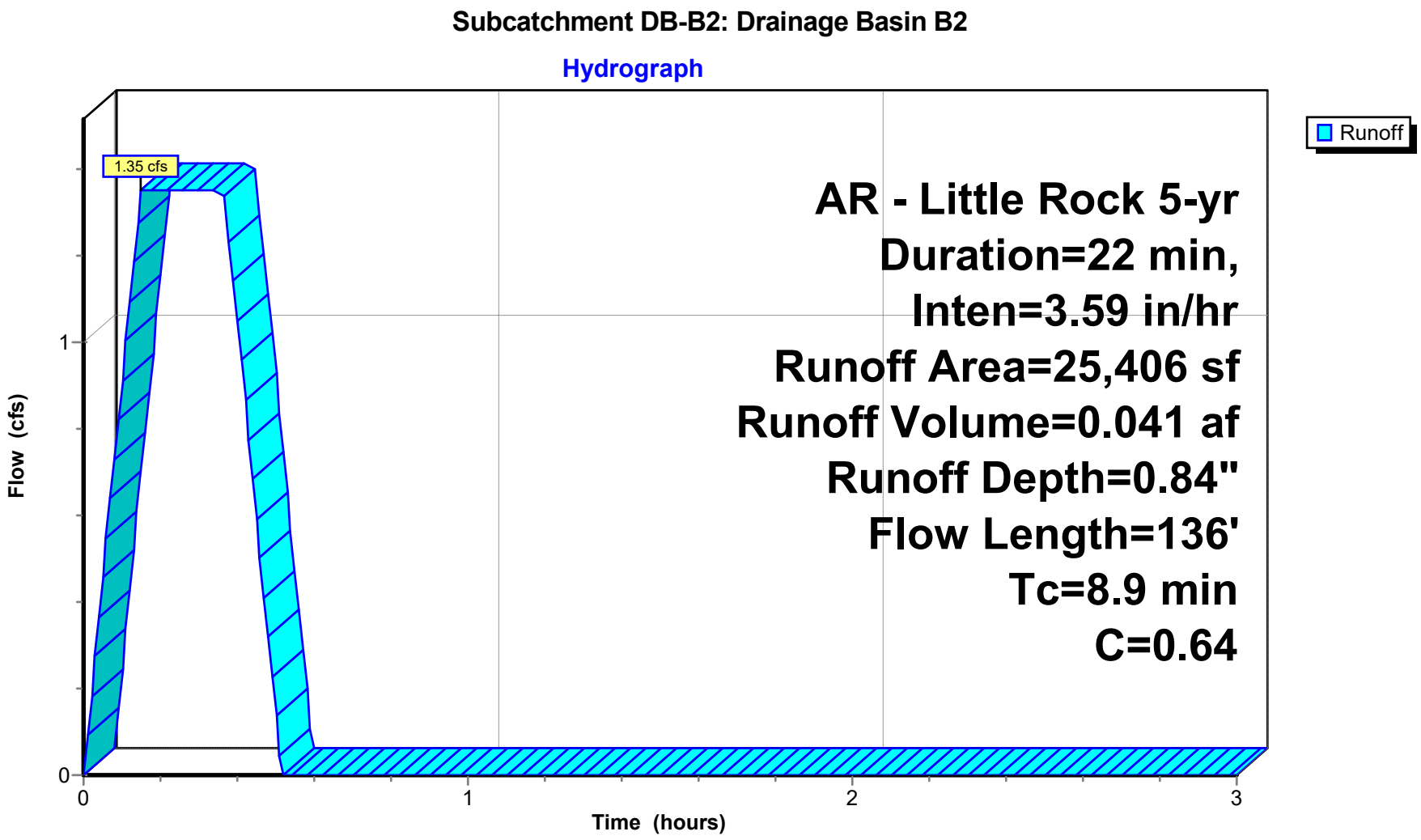
Summary for Subcatchment DB-B2: Drainage Basin B2

Runoff = 1.35 cfs @ 0.15 hrs, Volume= 0.041 af, Depth= 0.84"
Routed to Pond CI-A2 : CURB INLET A2

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 5-yr Duration=22 min, Inten=3.59 in/hr

Area (sf)	C	Description
11,388	0.30	Sandy Soil 2-7% per manual
14,018	0.92	Paved Areas
25,406	0.64	Weighted Average
25,406		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	57	0.0100	0.13		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
0.8	19	0.2480	0.38		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
0.2	14	0.0150	0.95		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.3	34	0.0600	1.97		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.2	12	0.0350	1.29		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.2					**Direct Entry, Minimum Adjustment**
8.9	136	Total			



Summary for Subcatchment DB-B3: Drainage Basin B3

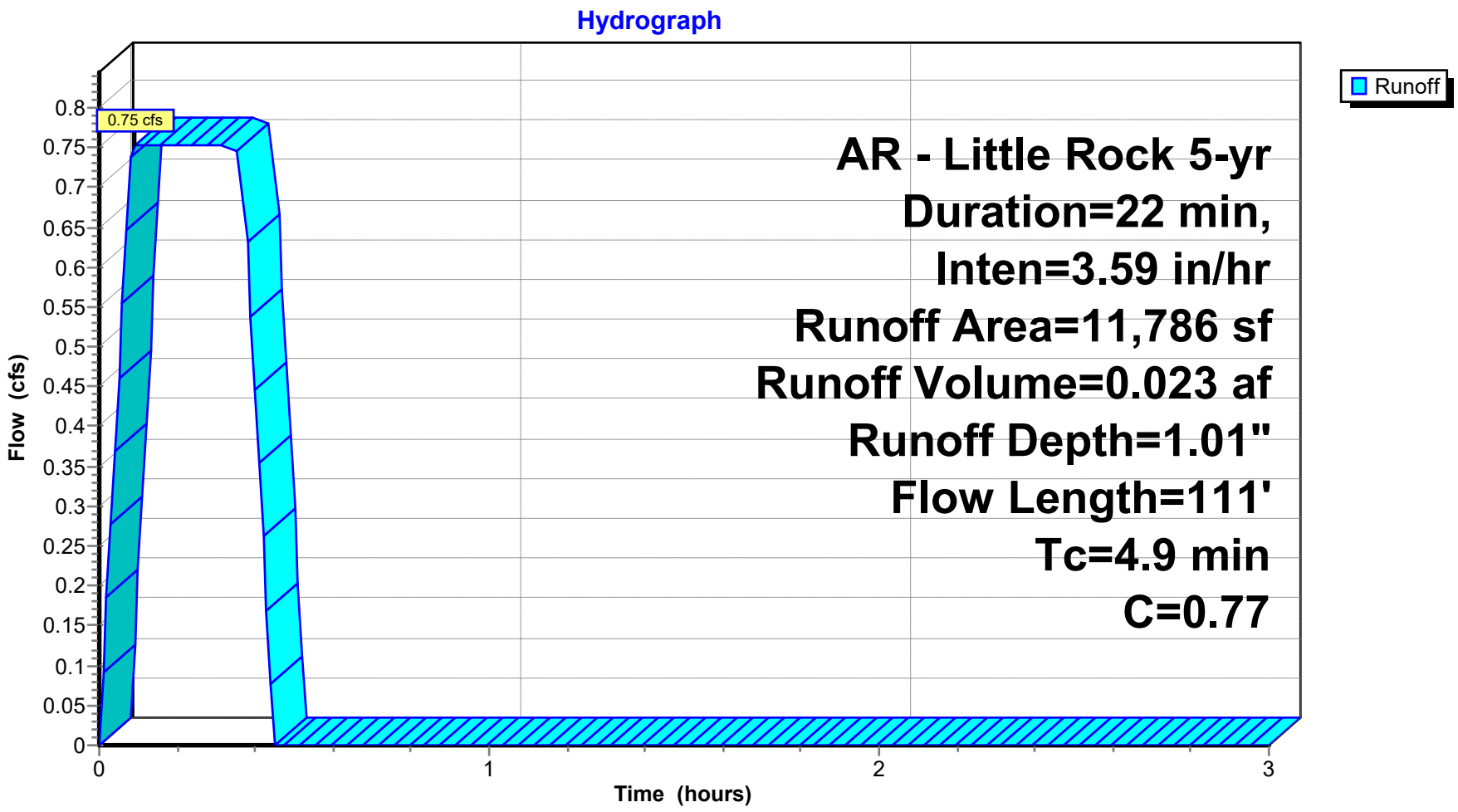
Runoff = 0.75 cfs @ 0.09 hrs, Volume= 0.023 af, Depth= 1.01"
Routed to Pond CI-A3 : CURB INLET A3

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 5-yr Duration=22 min, Inten=3.59 in/hr

Area (sf)	C	Description
2,920	0.30	Sandy Soil 2-7% per manual
8,866	0.92	Paved Areas
11,786	0.77	Weighted Average
11,786		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	19	0.2500	0.38		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
0.2	16	0.0290	1.27		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.6	38	0.0100	0.98		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.3	38	0.0100	2.03		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
3.0					**Direct Entry, Minimum Adjustment**
4.9	111	Total			

Subcatchment DB-B3: Drainage Basin B3



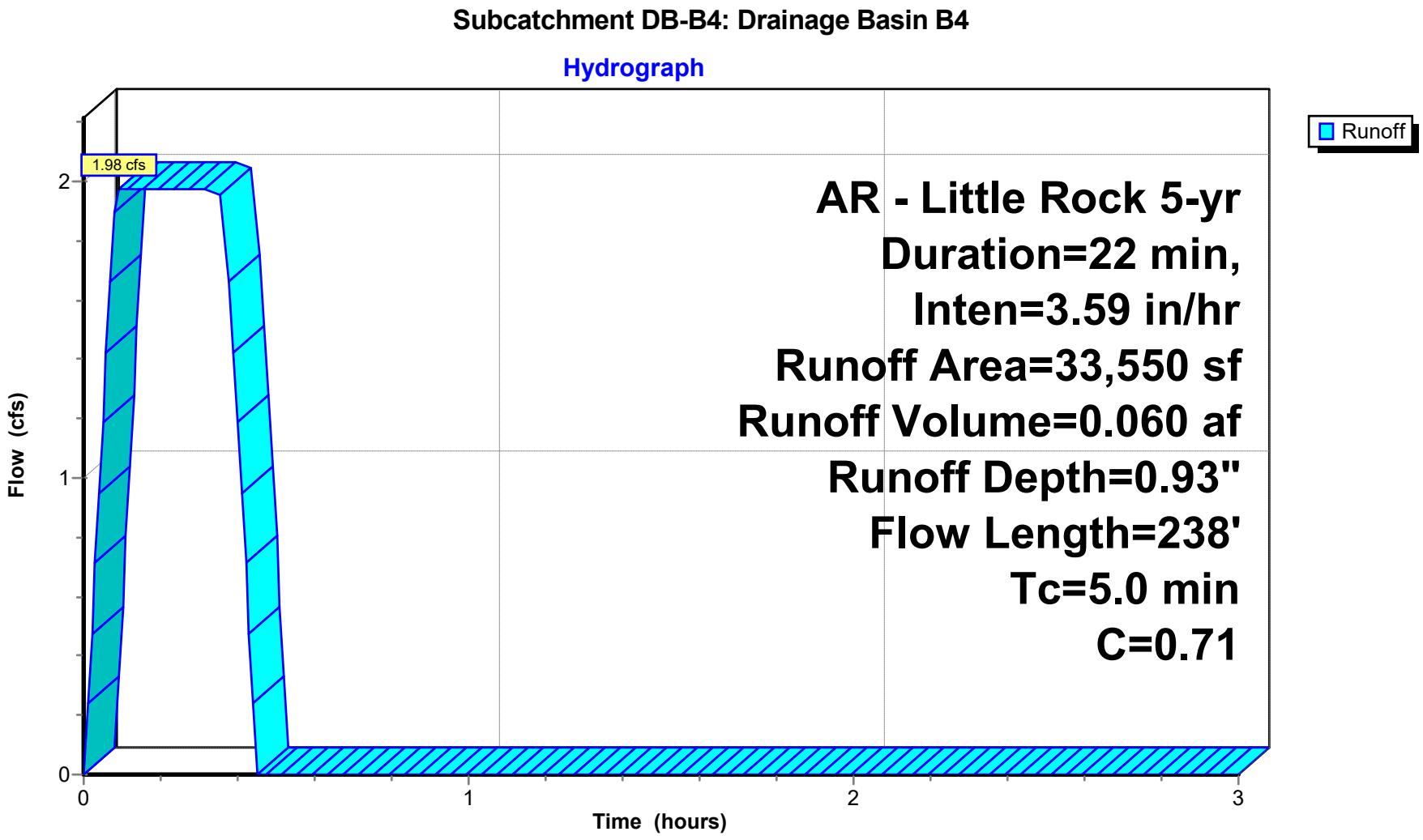
Summary for Subcatchment DB-B4: Drainage Basin B4

Runoff = 1.98 cfs @ 0.09 hrs, Volume= 0.060 af, Depth= 0.93"
Routed to Pond CI-A4 : CURB INLET A4

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 5-yr Duration=22 min, Inten=3.59 in/hr

Area (sf)	C	Description
11,568	0.30	Sandy Soil 2-7% per manual
21,982	0.92	Paved Areas
33,550	0.71	Weighted Average
33,550		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.4	48	0.0530	2.01		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.3	25	0.0310	1.42		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.6	14	0.0020	0.42		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.9	66	0.0130	1.22		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.4	59	0.0120	2.22		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
0.5	19	0.0010	0.64		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
0.0	7	0.0700	5.37		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
1.9					**Direct Entry, Minimum Adjustment**
5.0	238	Total			



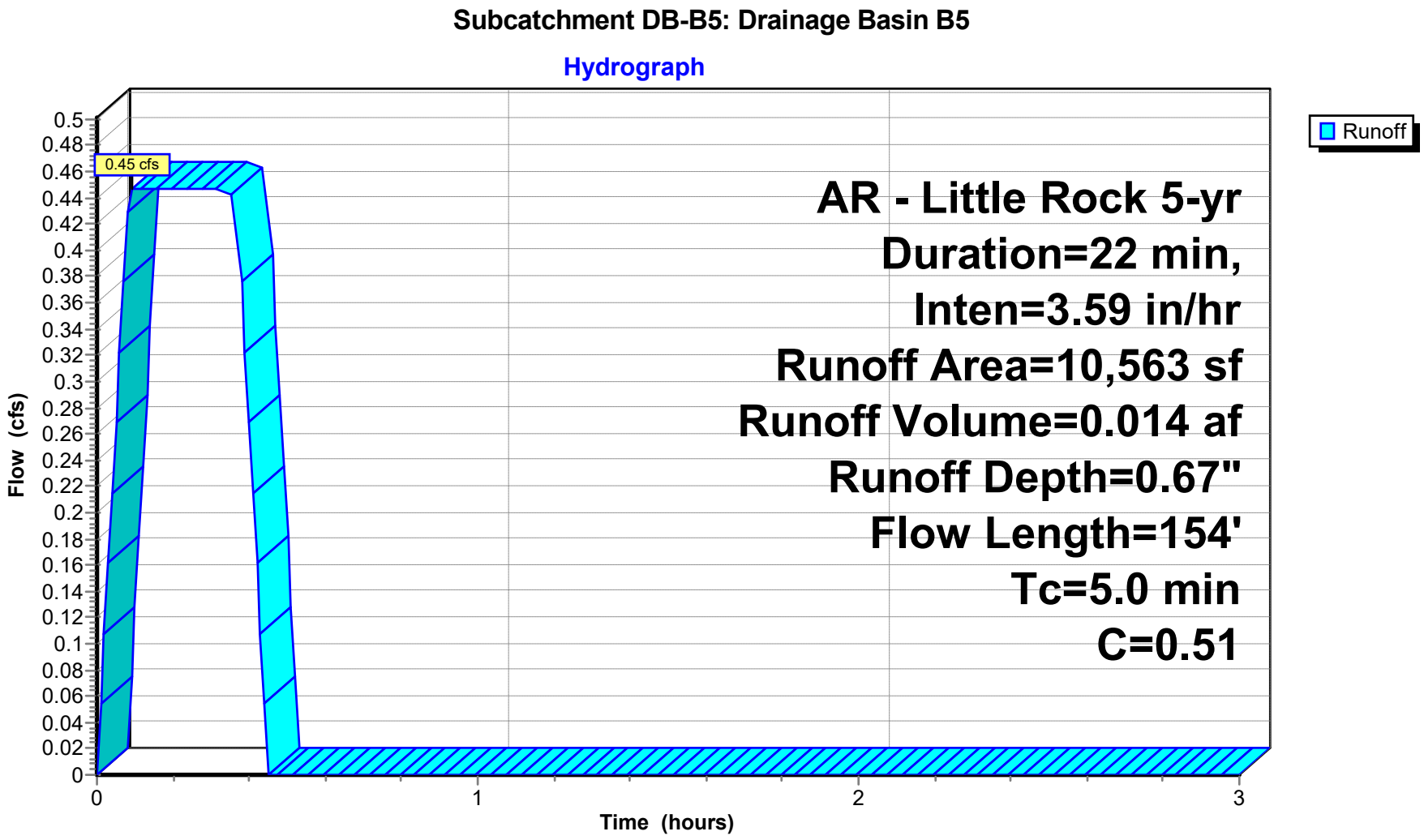
Summary for Subcatchment DB-B5: Drainage Basin B5

Runoff = 0.45 cfs @ 0.09 hrs, Volume= 0.014 af, Depth= 0.67"
Routed to Pond CI-A5 : CURB INLET A5

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 5-yr Duration=22 min, Inten=3.59 in/hr

Area (sf)	C	Description
6,980	0.30	Sandy Soil 2-7% per manual
3,583	0.92	Paved Areas
10,563	0.51	Weighted Average
10,563		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.2	19	0.0920	0.26		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
1.9	39	0.1260	0.34		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
0.5	66	0.0540	2.16		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.1	30	0.0500	4.54		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
1.3					**Direct Entry, Minimum Adjustment**
5.0	154	Total			



Summary for Subcatchment DB-B6: Drainage Basin B6

Runoff = 0.14 cfs @ 0.09 hrs, Volume= 0.004 af, Depth= 1.21"
Routed to Pond AI-B1 : AREA INLET B1

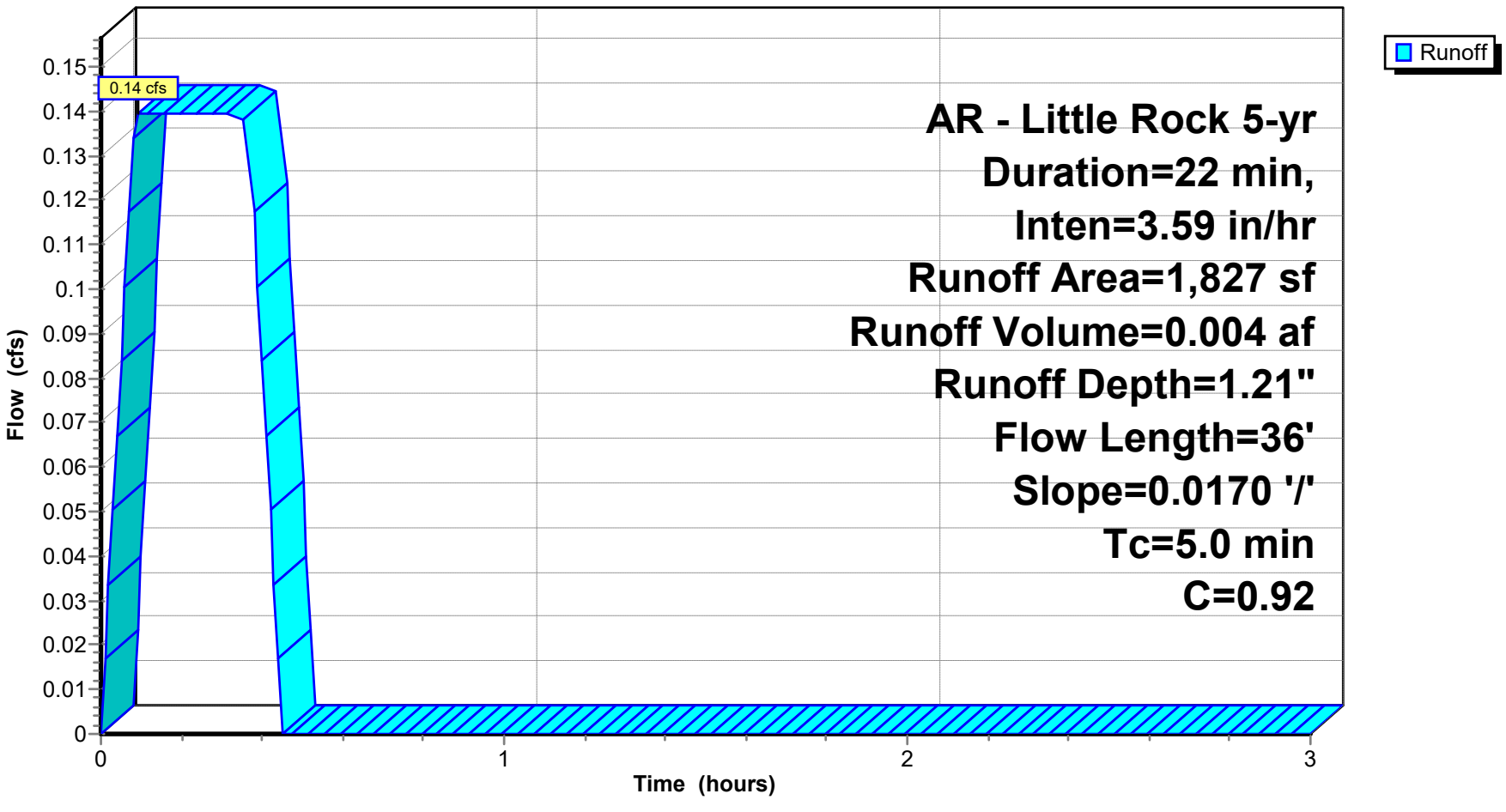
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 5-yr Duration=22 min, Inten=3.59 in/hr

Area (sf)	C	Description
0	0.30	Sandy Soil 2-7% per manual
1,827	0.92	Paved Areas
1,827	0.92	Weighted Average
1,827		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.5	36	0.0170	1.20		**Sheet Flow, Concrete** Smooth surfaces n= 0.011 P2= 4.20"
4.5					**Direct Entry, Minimum Adjustment**
5.0	36	Total			

Subcatchment DB-B6: Drainage Basin B6

Hydrograph



Summary for Subcatchment DB-B7: Drainage Basin B7

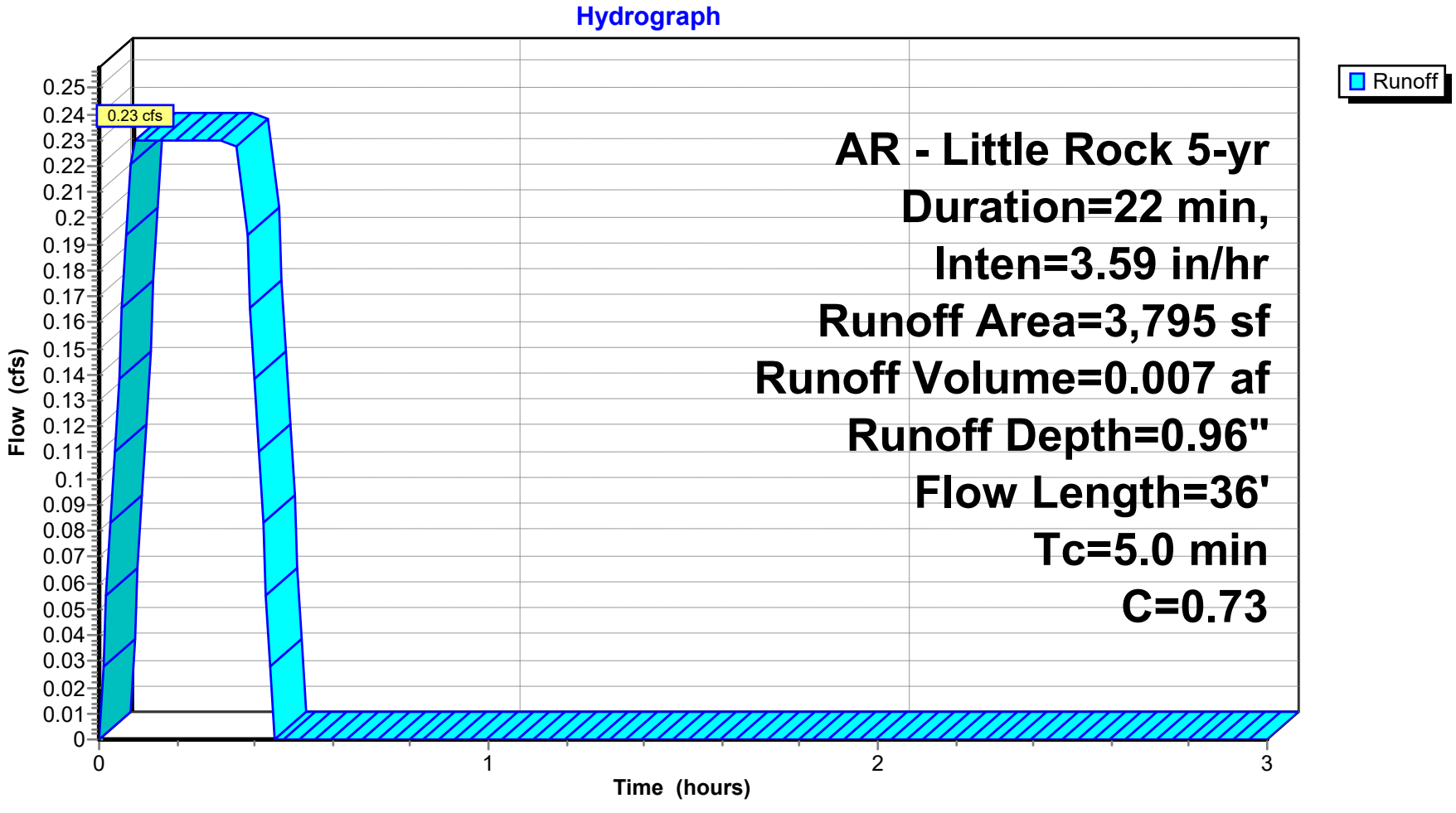
Runoff = 0.23 cfs @ 0.09 hrs, Volume= 0.007 af, Depth= 0.96"
Routed to Pond AI-B2 : AREA INLET B2

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 5-yr Duration=22 min, Inten=3.59 in/hr

Area (sf)	C	Description
1,158	0.30	Sandy Soil 2-7% per manual
2,637	0.92	Paved Areas
3,795	0.73	Weighted Average
3,795		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	24	0.0020	0.47		**Sheet Flow, Concrete** Smooth surfaces n= 0.011 P2= 4.20"
0.2	12	0.0160	0.94		**Sheet Flow, Concrete** Smooth surfaces n= 0.011 P2= 4.20"
4.0					**Direct Entry, Minimum Adjustment**
5.0	36	Total			

Subcatchment DB-B7: Drainage Basin B7



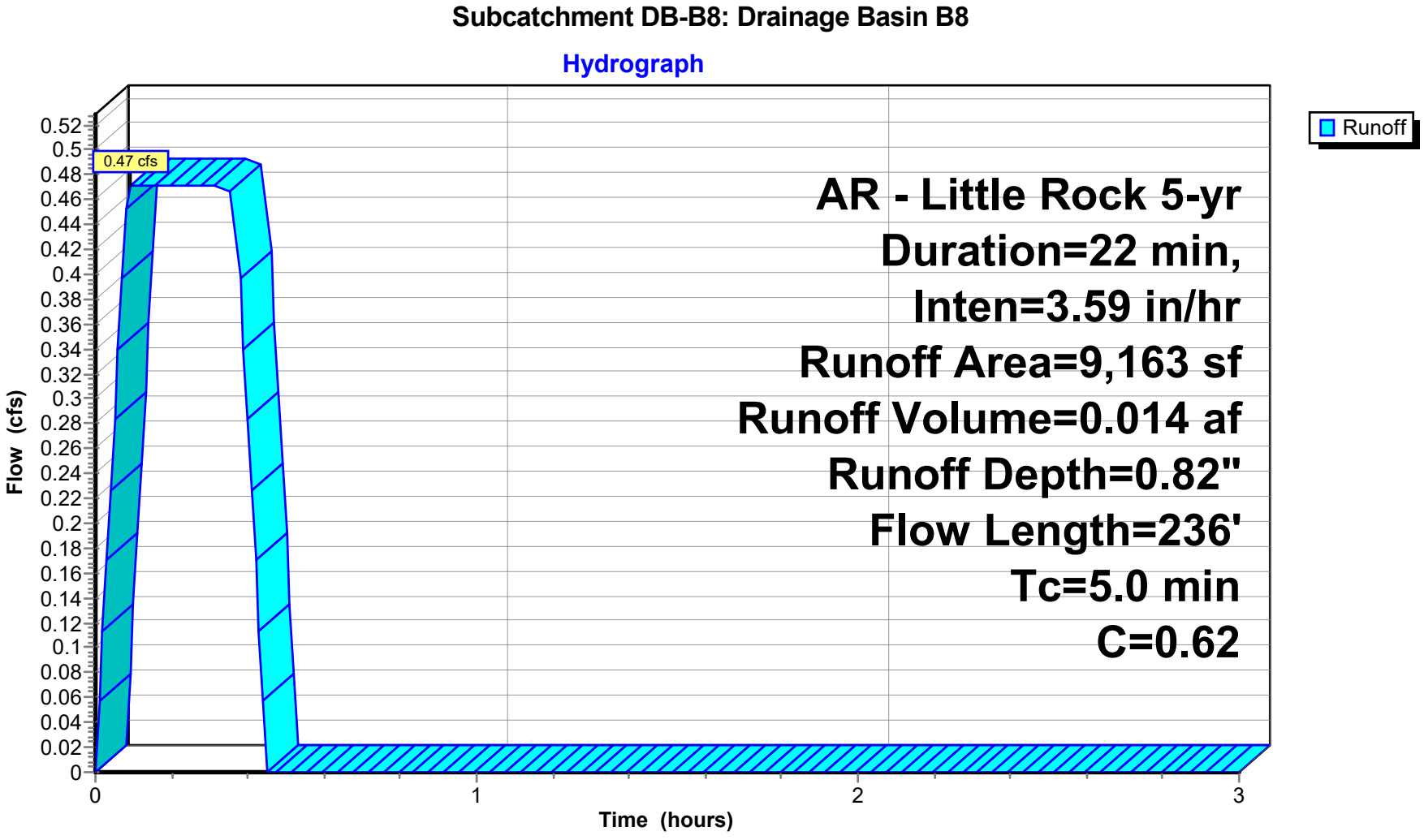
Summary for Subcatchment DB-B8: Drainage Basin B8

Runoff = 0.47 cfs @ 0.09 hrs, Volume= 0.014 af, Depth= 0.82"
Routed to Pond CI-C1 : CURB INLET C1

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 5-yr Duration=22 min, Inten=3.59 in/hr

Area (sf)	C	Description
4,431	0.30	Sadny Soil 2-7% per manual
4,732	0.92	Paved Areas
9,163	0.62	Weighted Average
9,163		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.4	33	0.0210	1.29		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.6	91	0.0620	2.43		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.8	112	0.0490	2.31		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
3.2					**Direct Entry, Minimum Adjustment**
5.0	236	Total			



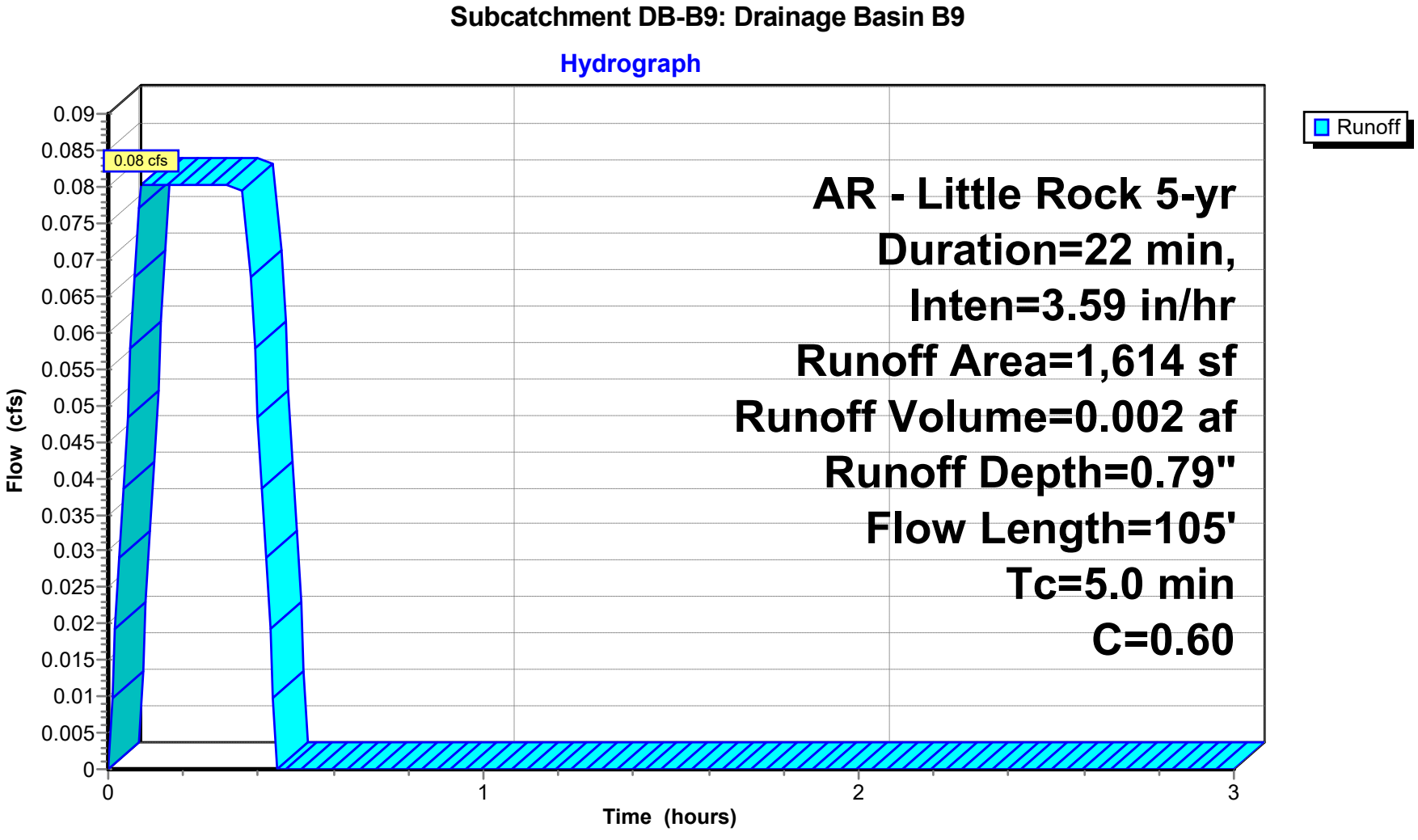
Summary for Subcatchment DB-B9: Drainage Basin B9

Runoff = 0.08 cfs @ 0.09 hrs, Volume= 0.002 af, Depth= 0.79"
Routed to Pond CI-C2 : CURB INLET C2

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 5-yr Duration=22 min, Inten=3.59 in/hr

Area (sf)	C	Description
826	0.30	Sandy Soil 2-7% per manual
788	0.92	Paved Areas
1,614	0.60	Weighted Average
1,614		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.0	62	0.0100	1.09		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.0	8	0.0230	3.08		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
0.2	35	0.0140	2.40		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
3.8					**Direct Entry, Minimum Adjustment**
5.0	105	Total			



Summary for Pond AI-B1: AREA INLET B1

Inflow Area = 0.042 ac, 0.00% Impervious, Inflow Depth = 1.21" for 5-yr event
Inflow = 0.14 cfs @ 0.09 hrs, Volume= 0.004 af
Outflow = 0.14 cfs @ 0.09 hrs, Volume= 0.004 af, Atten= 0%, Lag= 0.0 min
Primary = 0.14 cfs @ 0.09 hrs, Volume= 0.004 af
Routed to Pond AI-B2 : AREA INLET B2

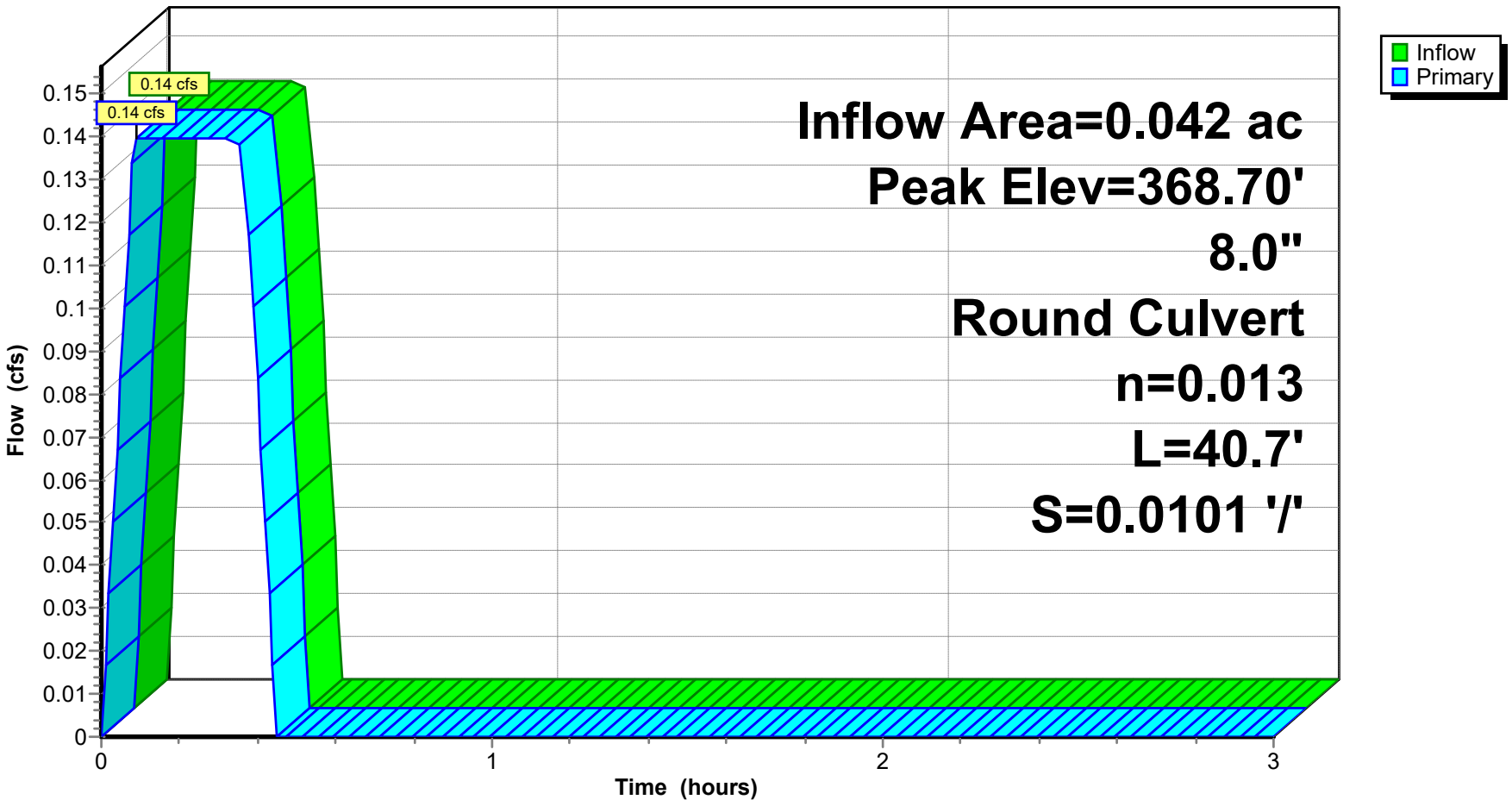
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 368.70' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	368.49'	**8.0" Round HDPE 8"** L= 40.7' Ke= 0.100 Inlet / Outlet Invert= 368.49' / 368.08' S= 0.0101 '/' Cc= 0.900 n= 0.013, Flow Area= 0.35 sf

Primary OutFlow Max=0.14 cfs @ 0.09 hrs HW=368.70' (Free Discharge)
1=HDPE 8" (Barrel Controls 0.14 cfs @ 2.24 fps)

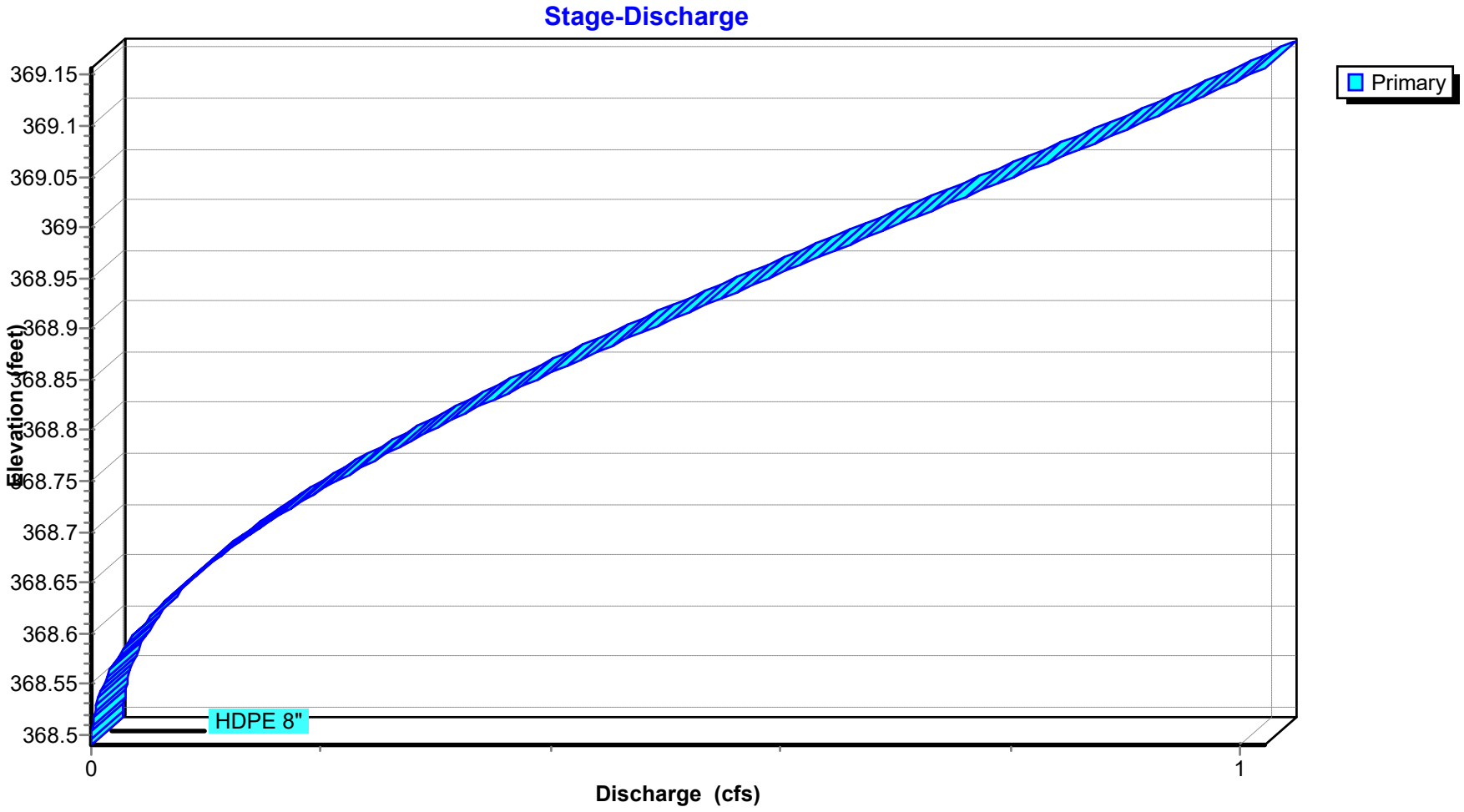
Pond AI-B1: AREA INLET B1

Hydrograph



Pond AI-B1: AREA INLET B1

Stage-Discharge



Stage-Area-Storage for Pond AI-B1: AREA INLET B1

Elevation (feet)	Storage (acre-feet)
368.49	**0.000**
368.50	0.000
368.51	0.000
368.52	0.000
368.53	0.000
368.54	0.000
368.55	0.000
368.56	0.000
368.57	0.000
368.58	0.000
368.59	0.000
368.60	0.000
368.61	0.000
368.62	0.000
368.63	0.000
368.64	0.000
368.65	0.000
368.66	0.000
368.67	0.000
368.68	0.000
368.69	0.000
368.70	0.000
368.71	0.000
368.72	0.000
368.73	0.000
368.74	0.000
368.75	0.000
368.76	0.000
368.77	0.000
368.78	0.000
368.79	0.000
368.80	0.000
368.81	0.000
368.82	0.000
368.83	0.000
368.84	0.000
368.85	0.000
368.86	0.000
368.87	0.000
368.88	0.000
368.89	0.000
368.90	0.000
368.91	0.000
368.92	0.000
368.93	0.000
368.94	0.000
368.95	0.000
368.96	0.000
368.97	0.000
368.98	0.000
368.99	0.000
369.00	0.000
369.01	0.000
369.02	0.000
369.03	0.000
369.04	0.000
369.05	0.000
369.06	0.000
369.07	0.000
369.08	0.000
369.09	0.000
369.10	0.000
369.11	0.000
369.12	0.000
369.13	0.000
369.14	0.000
369.15	0.000
369.16	0.000

Summary for Pond AI-B2: AREA INLET B2

Inflow Area = 0.129 ac, 0.00% Impervious, Inflow Depth = 1.04" for 5-yr event
Inflow = 0.37 cfs @ 0.09 hrs, Volume= 0.011 af
Outflow = 0.37 cfs @ 0.10 hrs, Volume= 0.011 af, Atten= 0%, Lag= 0.6 min
Primary = 0.37 cfs @ 0.10 hrs, Volume= 0.011 af
Routed to Pond CI-A2 : CURB INLET A2

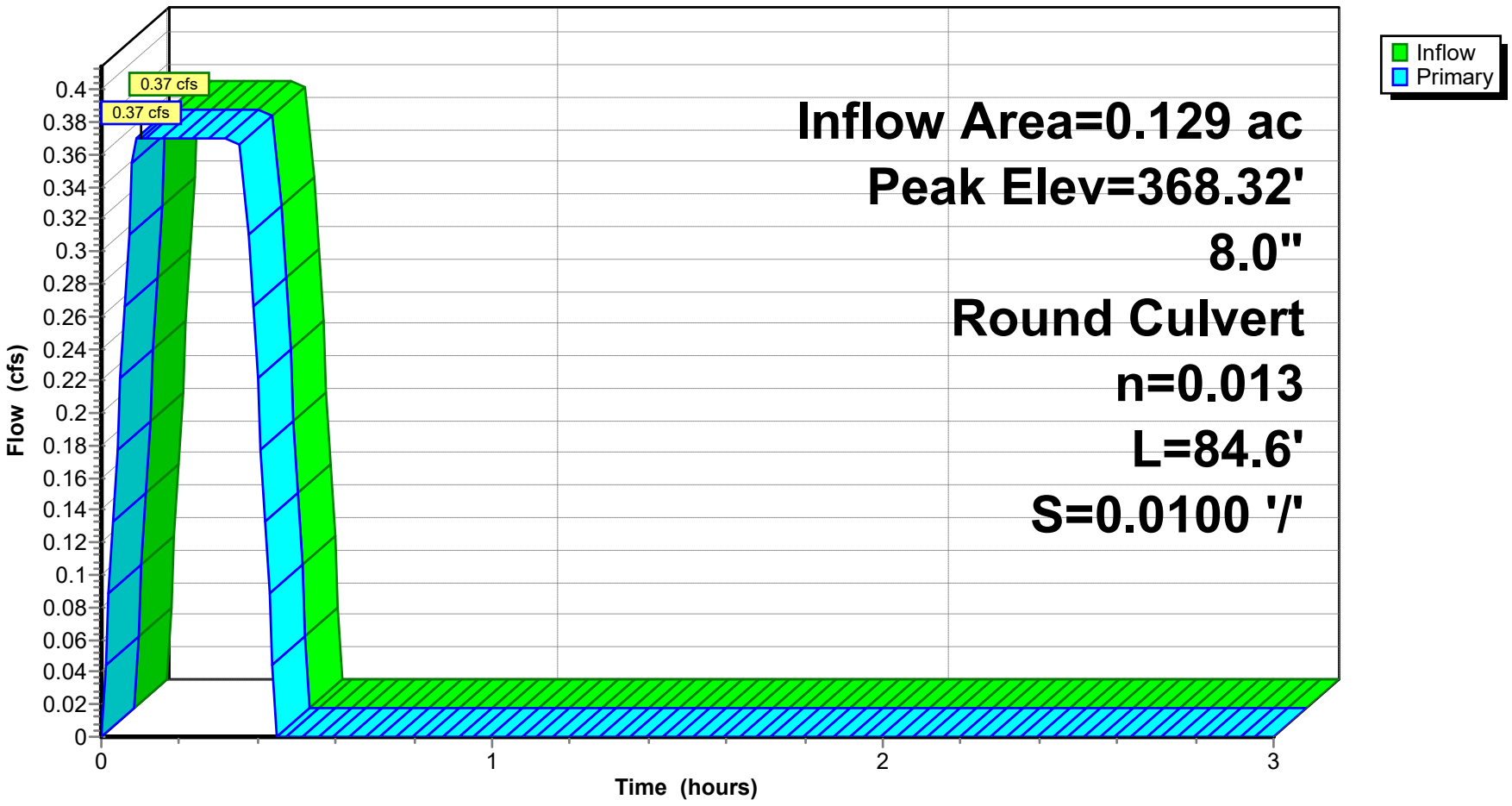
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 368.32' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	367.98'	**8.0" Round HDPE** L= 84.6' Ke= 0.100 Inlet / Outlet Invert= 367.98' / 367.13' S= 0.0100 '/' Cc= 0.900 n= 0.013, Flow Area= 0.35 sf

Primary OutFlow Max=0.37 cfs @ 0.10 hrs HW=368.32' (Free Discharge)
↑—**1=HDPE** (Barrel Controls 0.37 cfs @ 2.96 fps)

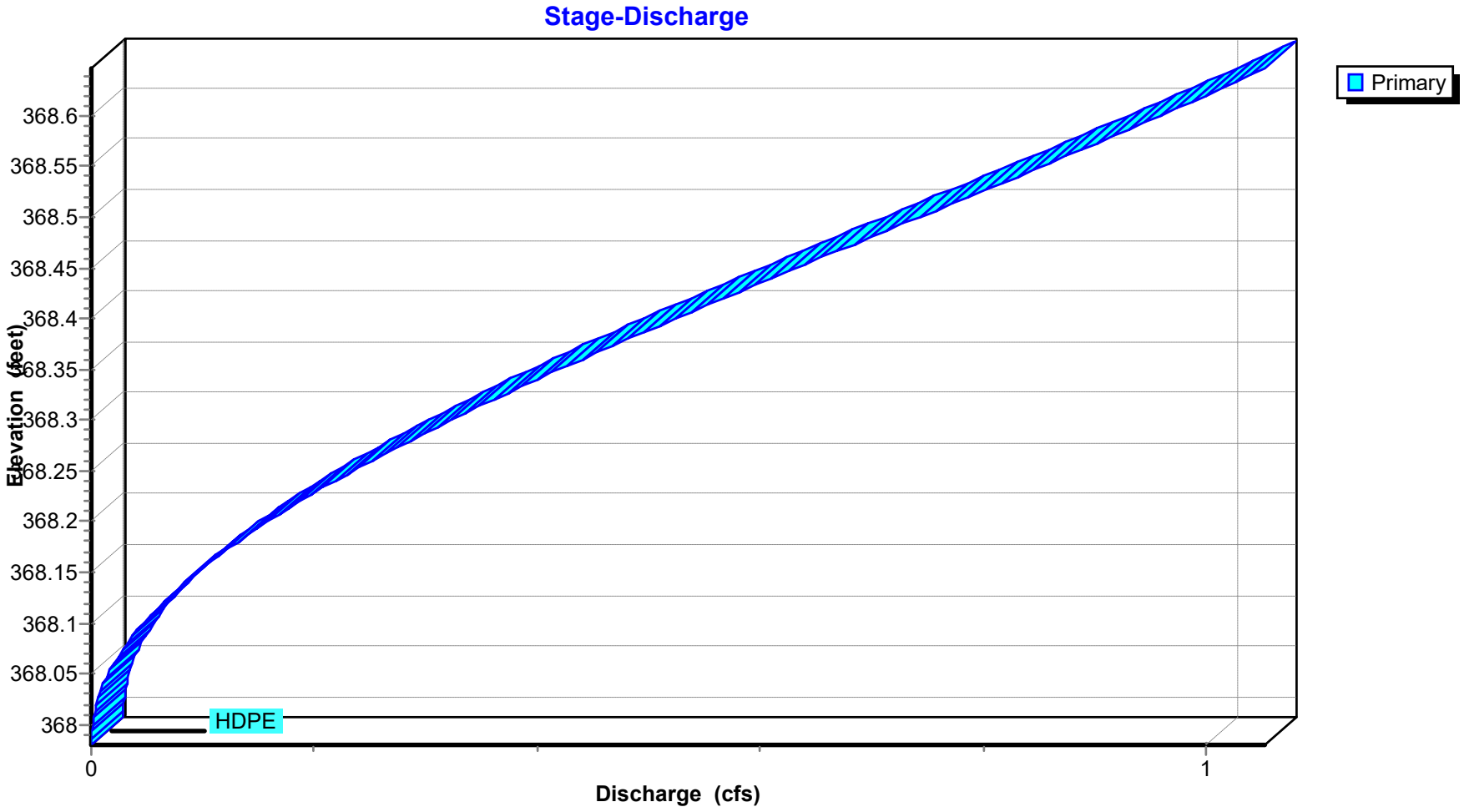
Pond AI-B2: AREA INLET B2

Hydrograph



Pond AI-B2: AREA INLET B2

Stage-Discharge



Stage-Area-Storage for Pond AI-B2: AREA INLET B2

Elevation (feet)	Storage (acre-feet)
367.98	**0.000**
367.99	0.000
368.00	0.000
368.01	0.000
368.02	0.000
368.03	0.000
368.04	0.000
368.05	0.000
368.06	0.000
368.07	0.000
368.08	0.000
368.09	0.000
368.10	0.000
368.11	0.000
368.12	0.000
368.13	0.000
368.14	0.000
368.15	0.000
368.16	0.000
368.17	0.000
368.18	0.000
368.19	0.000
368.20	0.000
368.21	0.000
368.22	0.000
368.23	0.000
368.24	0.000
368.25	0.000
368.26	0.000
368.27	0.000
368.28	0.000
368.29	0.000
368.30	0.000
368.31	0.000
368.32	0.000
368.33	0.000
368.34	0.000
368.35	0.000
368.36	0.000
368.37	0.000
368.38	0.000
368.39	0.000
368.40	0.000
368.41	0.000
368.42	0.000
368.43	0.000
368.44	0.000
368.45	0.000
368.46	0.000
368.47	0.000
368.48	0.000
368.49	0.000
368.50	0.000
368.51	0.000
368.52	0.000
368.53	0.000
368.54	0.000
368.55	0.000
368.56	0.000
368.57	0.000
368.58	0.000
368.59	0.000
368.60	0.000
368.61	0.000
368.62	0.000
368.63	0.000
368.64	0.000
368.65	0.000

Summary for Pond CI-A1: CURB INLET A1

Inflow Area = 0.443 ac, 0.00% Impervious, Inflow Depth = 1.13" for 5-yr event
Inflow = 1.38 cfs @ 0.09 hrs, Volume= 0.042 af
Outflow = 1.38 cfs @ 0.09 hrs, Volume= 0.042 af, Atten= 0%, Lag= 0.0 min
Primary = 1.38 cfs @ 0.09 hrs, Volume= 0.042 af
Routed to Pond CI-A2 : CURB INLET A2

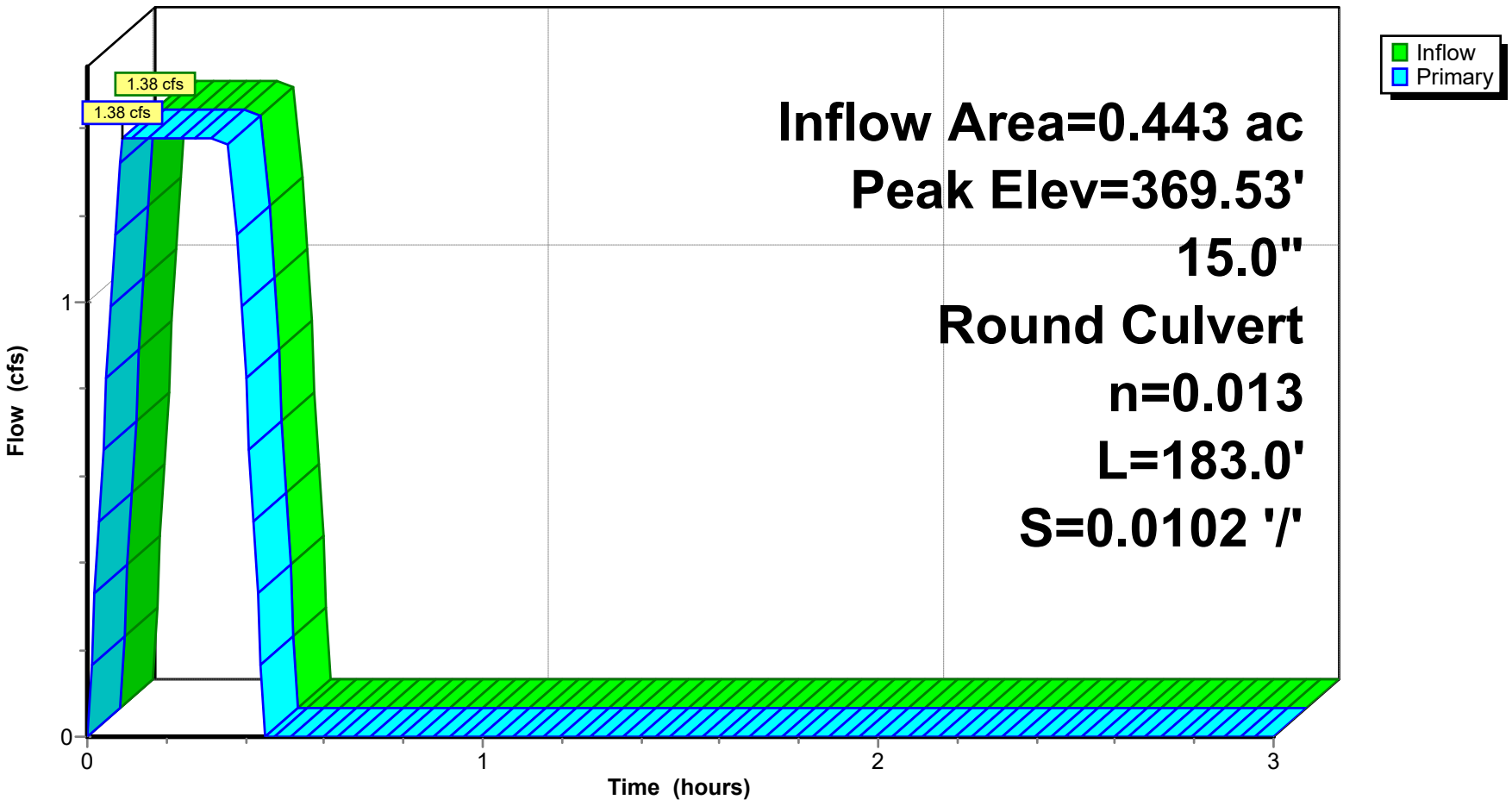
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 369.53' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	369.00'	**15.0" Round RCP_Round 15"** L= 183.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 369.00' / 367.13' S= 0.0102 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.23 sf

Primary OutFlow Max=1.38 cfs @ 0.09 hrs HW=369.53' (Free Discharge)
└**1=RCP_Round 15"** (Barrel Controls 1.38 cfs @ 4.09 fps)

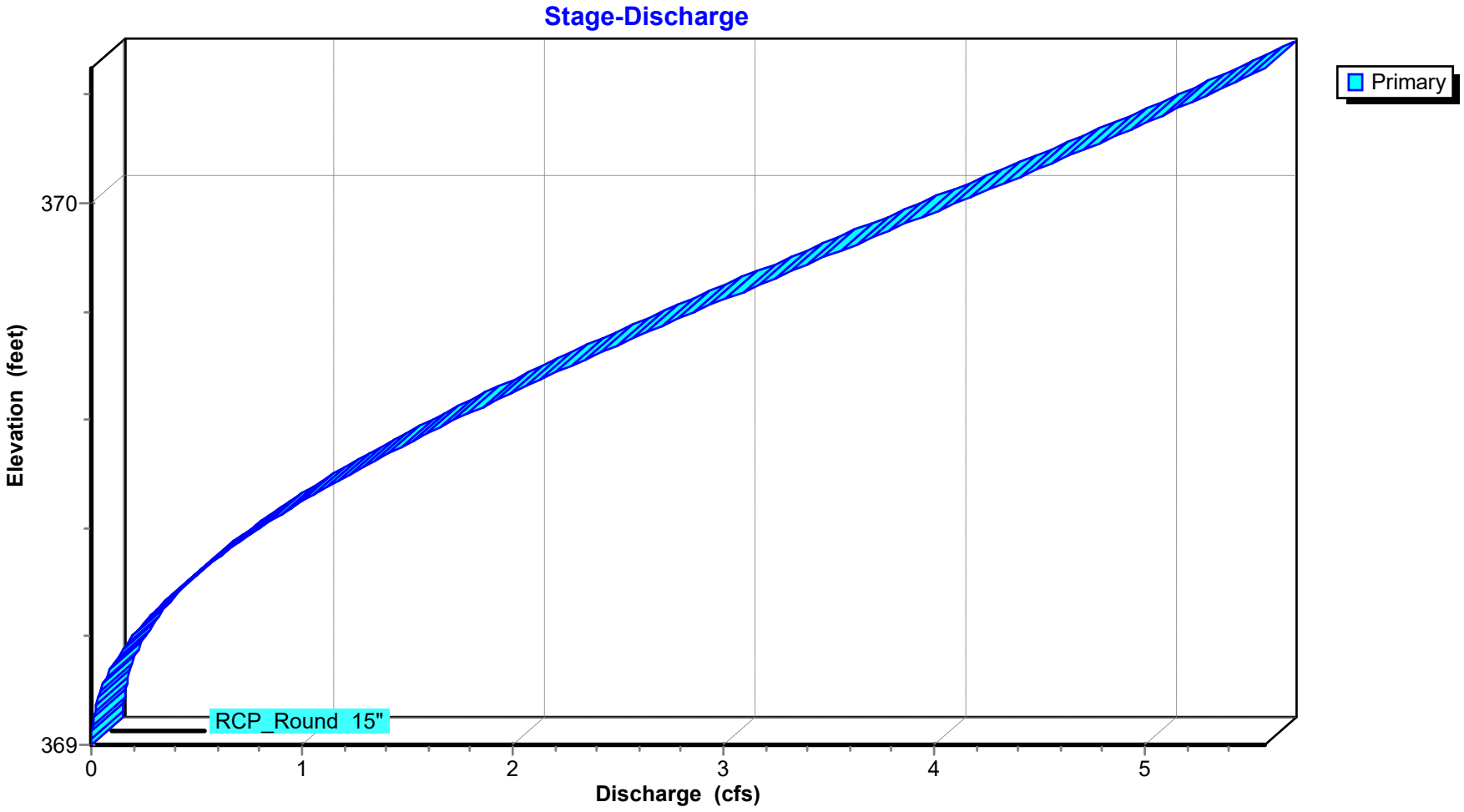
Pond CI-A1: CURB INLET A1

Hydrograph



Pond CI-A1: CURB INLET A1

Stage-Discharge



Stage-Area-Storage for Pond CI-A1: CURB INLET A1

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
369.00	**0.000**	369.92	0.000
369.01	0.000	369.93	0.000
369.02	0.000	369.94	0.000
369.03	0.000	369.95	0.000
369.04	0.000	369.96	0.000
369.05	0.000	369.97	0.000
369.06	0.000	369.98	0.000
369.07	0.000	369.99	0.000
369.08	0.000	370.00	0.000
369.09	0.000	370.01	0.000
369.10	0.000	370.02	0.000
369.11	0.000	370.03	0.000
369.12	0.000	370.04	0.000
369.13	0.000	370.05	0.000
369.14	0.000	370.06	0.000
369.15	0.000	370.07	0.000
369.16	0.000	370.08	0.000
369.17	0.000	370.09	0.000
369.18	0.000	370.10	0.000
369.19	0.000	370.11	0.000
369.20	0.000	370.12	0.000
369.21	0.000	370.13	0.000
369.22	0.000	370.14	0.000
369.23	0.000	370.15	0.000
369.24	0.000	370.16	0.000
369.25	0.000	370.17	0.000
369.26	0.000	370.18	0.000
369.27	0.000	370.19	0.000
369.28	0.000	370.20	0.000
369.29	0.000	370.21	0.000
369.30	0.000	370.22	0.000
369.31	0.000	370.23	0.000
369.32	0.000	370.24	0.000
369.33	0.000	370.25	0.000
369.34	0.000		
369.35	0.000		
369.36	0.000		
369.37	0.000		
369.38	0.000		
369.39	0.000		
369.40	0.000		
369.41	0.000		
369.42	0.000		
369.43	0.000		
369.44	0.000		
369.45	0.000		
369.46	0.000		
369.47	0.000		
369.48	0.000		
369.49	0.000		
369.50	0.000		
369.51	0.000		
369.52	0.000		
369.53	0.000		
369.54	0.000		
369.55	0.000		
369.56	0.000		
369.57	0.000		
369.58	0.000		
369.59	0.000		
369.60	0.000		
369.61	0.000		
369.62	0.000		
369.63	0.000		
369.64	0.000		
369.65	0.000		
369.66	0.000		
369.67	0.000		
369.68	0.000		
369.69	0.000		
369.70	0.000		
369.71	0.000		
369.72	0.000		
369.73	0.000		
369.74	0.000		
369.75	0.000		
369.76	0.000		
369.77	0.000		
369.78	0.000		
369.79	0.000		
369.80	0.000		
369.81	0.000		
369.82	0.000		
369.83	0.000		
369.84	0.000		
369.85	0.000		
369.86	0.000		
369.87	0.000		
369.88	0.000		
369.89	0.000		
369.90	0.000		
369.91	0.000		

Summary for Pond CI-A2: CURB INLET A2

Inflow Area = 1.156 ac, 0.00% Impervious, Inflow Depth = 0.98" for 5-yr event
Inflow = 3.10 cfs @ 0.15 hrs, Volume= 0.094 af
Outflow = 3.10 cfs @ 0.16 hrs, Volume= 0.094 af, Atten= 0%, Lag= 0.6 min
Primary = 3.10 cfs @ 0.16 hrs, Volume= 0.094 af
Routed to Pond CI-A3 : CURB INLET A3

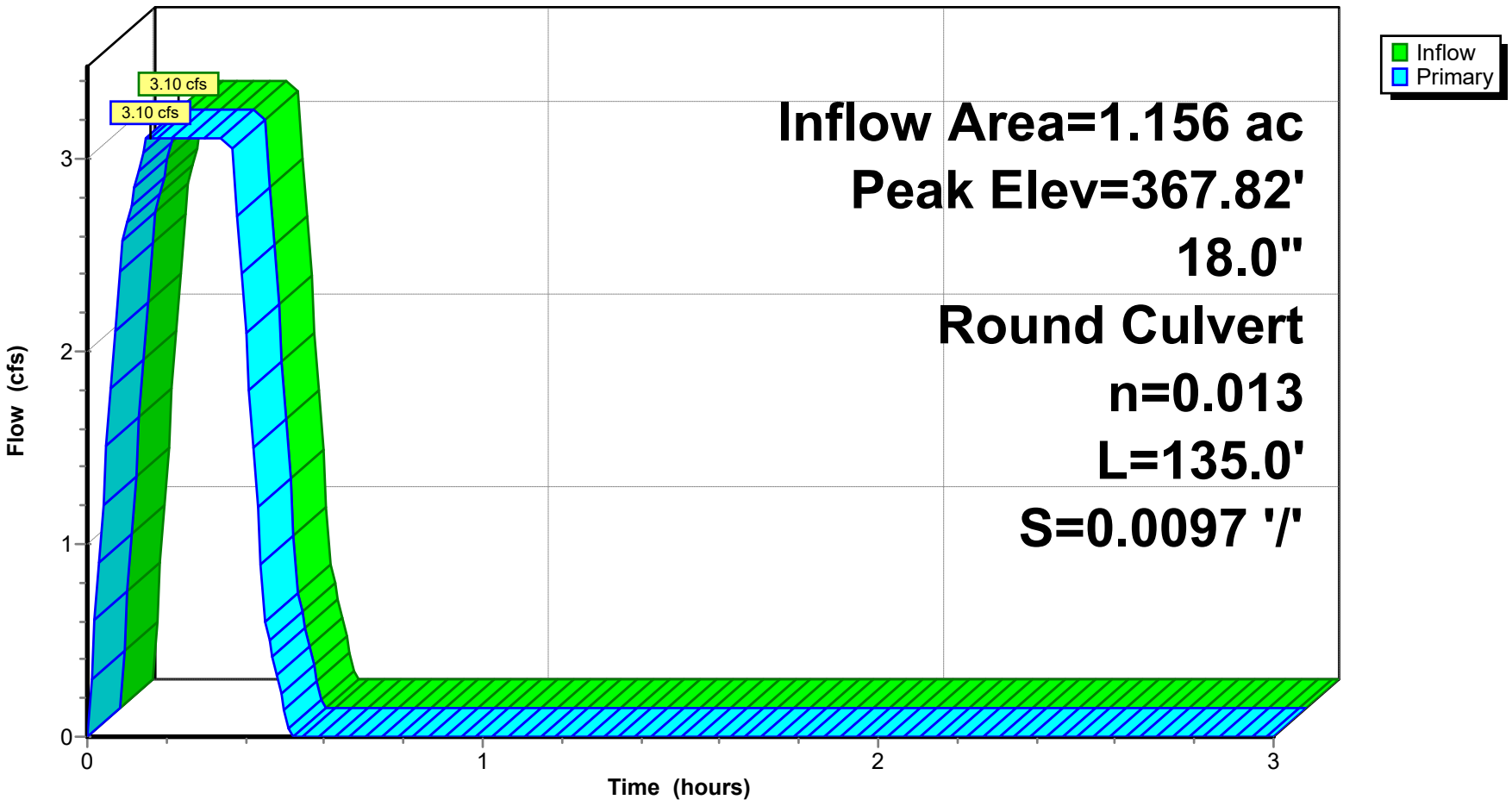
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 367.82' @ 0.15 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	367.03'	**18.0" Round RCP_Round 18"** L= 135.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 367.03' / 365.72' S= 0.0097 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.77 sf

Primary OutFlow Max=3.10 cfs @ 0.16 hrs HW=367.82' (Free Discharge)
1=RCP_Round 18" (Barrel Controls 3.10 cfs @ 4.81 fps)

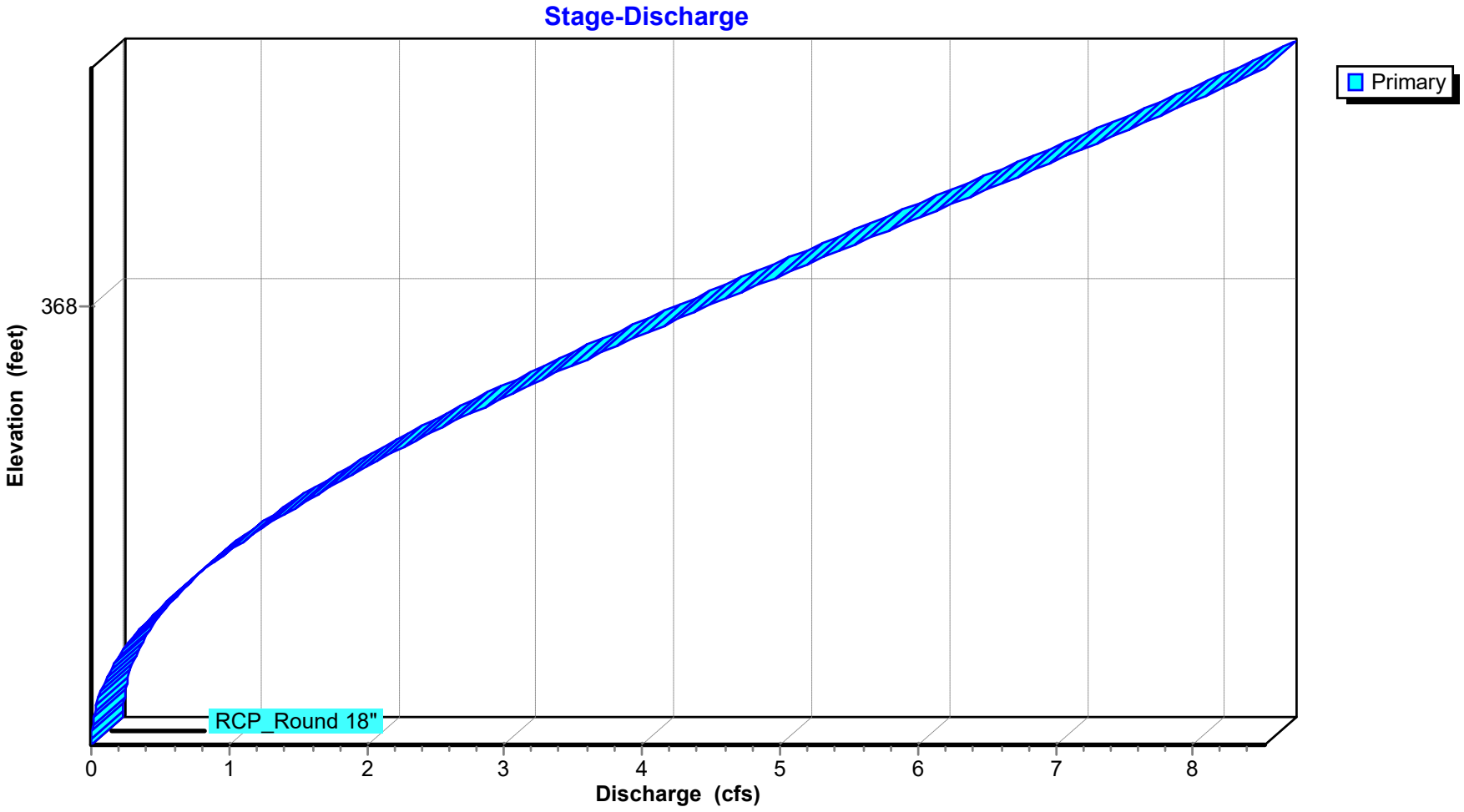
Pond CI-A2: CURB INLET A2

Hydrograph



Pond CI-A2: CURB INLET A2

Stage-Discharge



Stage-Area-Storage for Pond CI-A2: CURB INLET A2

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
367.03	**0.000**	367.95	0.000
367.04	0.000	367.96	0.000
367.05	0.000	367.97	0.000
367.06	0.000	367.98	0.000
367.07	0.000	367.99	0.000
367.08	0.000	368.00	0.000
367.09	0.000	368.01	0.000
367.10	0.000	368.02	0.000
367.11	0.000	368.03	0.000
367.12	0.000	368.04	0.000
367.13	0.000	368.05	0.000
367.14	0.000	368.06	0.000
367.15	0.000	368.07	0.000
367.16	0.000	368.08	0.000
367.17	0.000	368.09	0.000
367.18	0.000	368.10	0.000
367.19	0.000	368.11	0.000
367.20	0.000	368.12	0.000
367.21	0.000	368.13	0.000
367.22	0.000	368.14	0.000
367.23	0.000	368.15	0.000
367.24	0.000	368.16	0.000
367.25	0.000	368.17	0.000
367.26	0.000	368.18	0.000
367.27	0.000	368.19	0.000
367.28	0.000	368.20	0.000
367.29	0.000	368.21	0.000
367.30	0.000	368.22	0.000
367.31	0.000	368.23	0.000
367.32	0.000	368.24	0.000
367.33	0.000	368.25	0.000
367.34	0.000	368.26	0.000
367.35	0.000	368.27	0.000
367.36	0.000	368.28	0.000
367.37	0.000	368.29	0.000
367.38	0.000	368.30	0.000
367.39	0.000	368.31	0.000
367.40	0.000	368.32	0.000
367.41	0.000	368.33	0.000
367.42	0.000	368.34	0.000
367.43	0.000	368.35	0.000
367.44	0.000	368.36	0.000
367.45	0.000	368.37	0.000
367.46	0.000	368.38	0.000
367.47	0.000	368.39	0.000
367.48	0.000	368.40	0.000
367.49	0.000	368.41	0.000
367.50	0.000	368.42	0.000
367.51	0.000	368.43	0.000
367.52	0.000	368.44	0.000
367.53	0.000	368.45	0.000
367.54	0.000	368.46	0.000
367.55	0.000	368.47	0.000
367.56	0.000	368.48	0.000
367.57	0.000	368.49	0.000
367.58	0.000	368.50	0.000
367.59	0.000	368.51	0.000
367.60	0.000	368.52	0.000
367.61	0.000	368.53	0.000
367.62	0.000		
367.63	0.000		
367.64	0.000		
367.65	0.000		
367.66	0.000		
367.67	0.000		
367.68	0.000		
367.69	0.000		
367.70	0.000		
367.71	0.000		
367.72	0.000		
367.73	0.000		
367.74	0.000		
367.75	0.000		
367.76	0.000		
367.77	0.000		
367.78	0.000		
367.79	0.000		
367.80	0.000		
367.81	0.000		
367.82	0.000		
367.83	0.000		
367.84	0.000		
367.85	0.000		
367.86	0.000		
367.87	0.000		
367.88	0.000		
367.89	0.000		
367.90	0.000		
367.91	0.000		
367.92	0.000		
367.93	0.000		
367.94	0.000		

Summary for Pond CI-A3: CURB INLET A3

Inflow Area = 1.426 ac, 0.00% Impervious, Inflow Depth = 0.98" for 5-yr event
Inflow = 3.85 cfs @ 0.16 hrs, Volume= 0.117 af
Outflow = 3.85 cfs @ 0.16 hrs, Volume= 0.117 af, Atten= 0%, Lag= 0.0 min
Primary = 3.85 cfs @ 0.16 hrs, Volume= 0.117 af
Routed to Pond CI-A4 : CURB INLET A4

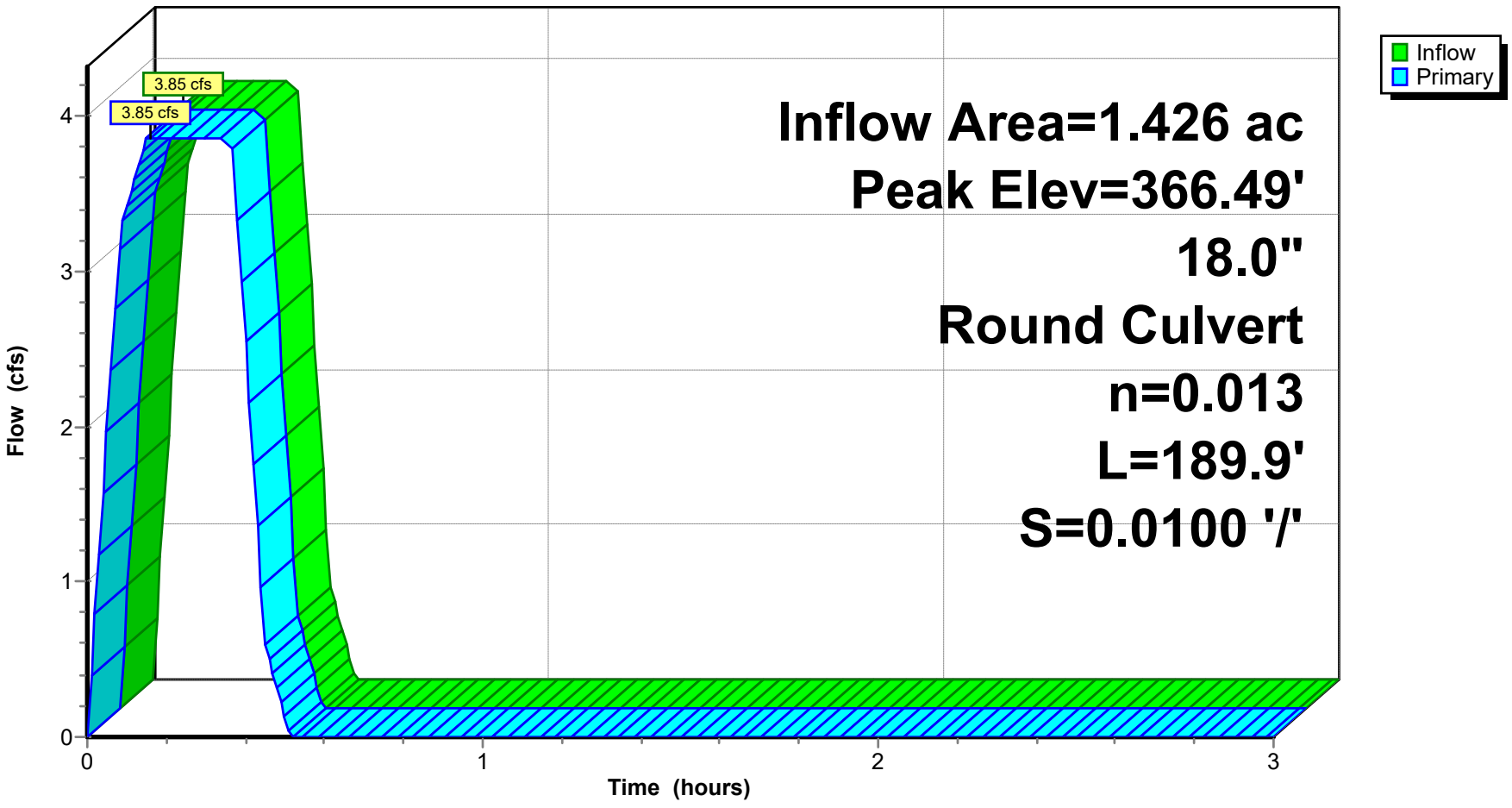
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 366.49' @ 0.15 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	365.62'	**18.0" Round RCP_Round 18"** L= 189.9' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 365.62' / 363.72' S= 0.0100 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.77 sf

Primary OutFlow Max=3.85 cfs @ 0.16 hrs HW=366.49' (Free Discharge)
1=RCP_Round 18" (Barrel Controls 3.85 cfs @ 5.21 fps)

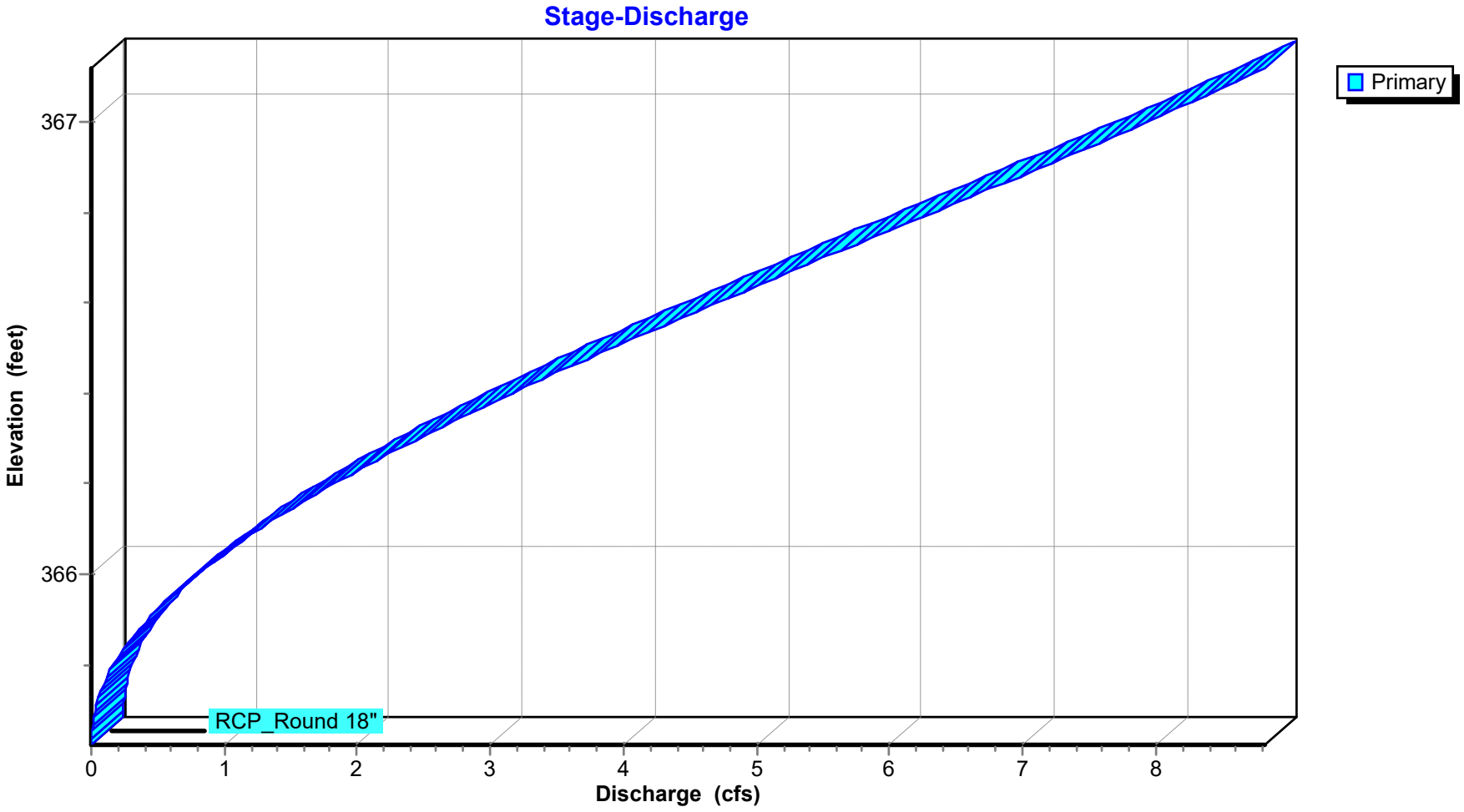
Pond CI-A3: CURB INLET A3

Hydrograph



Pond CI-A3: CURB INLET A3

Stage-Discharge



Stage-Area-Storage for Pond CI-A3: CURB INLET A3

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
365.62	**0.000**	366.54	0.000
365.63	0.000	366.55	0.000
365.64	0.000	366.56	0.000
365.65	0.000	366.57	0.000
365.66	0.000	366.58	0.000
365.67	0.000	366.59	0.000
365.68	0.000	366.60	0.000
365.69	0.000	366.61	0.000
365.70	0.000	366.62	0.000
365.71	0.000	366.63	0.000
365.72	0.000	366.64	0.000
365.73	0.000	366.65	0.000
365.74	0.000	366.66	0.000
365.75	0.000	366.67	0.000
365.76	0.000	366.68	0.000
365.77	0.000	366.69	0.000
365.78	0.000	366.70	0.000
365.79	0.000	366.71	0.000
365.80	0.000	366.72	0.000
365.81	0.000	366.73	0.000
365.82	0.000	366.74	0.000
365.83	0.000	366.75	0.000
365.84	0.000	366.76	0.000
365.85	0.000	366.77	0.000
365.86	0.000	366.78	0.000
365.87	0.000	366.79	0.000
365.88	0.000	366.80	0.000
365.89	0.000	366.81	0.000
365.90	0.000	366.82	0.000
365.91	0.000	366.83	0.000
365.92	0.000	366.84	0.000
365.93	0.000	366.85	0.000
365.94	0.000	366.86	0.000
365.95	0.000	366.87	0.000
365.96	0.000	366.88	0.000
365.97	0.000	366.89	0.000
365.98	0.000	366.90	0.000
365.99	0.000	366.91	0.000
366.00	0.000	366.92	0.000
366.01	0.000	366.93	0.000
366.02	0.000	366.94	0.000
366.03	0.000	366.95	0.000
366.04	0.000	366.96	0.000
366.05	0.000	366.97	0.000
366.06	0.000	366.98	0.000
366.07	0.000	366.99	0.000
366.08	0.000	367.00	0.000
366.09	0.000	367.01	0.000
366.10	0.000	367.02	0.000
366.11	0.000	367.03	0.000
366.12	0.000	367.04	0.000
366.13	0.000	367.05	0.000
366.14	0.000	367.06	0.000
366.15	0.000	367.07	0.000
366.16	0.000	367.08	0.000
366.17	0.000	367.09	0.000
366.18	0.000	367.10	0.000
366.19	0.000	367.11	0.000
366.20	0.000	367.12	0.000
366.21	0.000		
366.22	0.000		
366.23	0.000		
366.24	0.000		
366.25	0.000		
366.26	0.000		
366.27	0.000		
366.28	0.000		
366.29	0.000		
366.30	0.000		
366.31	0.000		
366.32	0.000		
366.33	0.000		
366.34	0.000		
366.35	0.000		
366.36	0.000		
366.37	0.000		
366.38	0.000		
366.39	0.000		
366.40	0.000		
366.41	0.000		
366.42	0.000		
366.43	0.000		
366.44	0.000		
366.45	0.000		
366.46	0.000		
366.47	0.000		
366.48	0.000		
366.49	0.000		
366.50	0.000		
366.51	0.000		
366.52	0.000		
366.53	0.000		

Summary for Pond CI-A4: CURB INLET A4

Inflow Area = 2.197 ac, 0.00% Impervious, Inflow Depth = 0.97" for 5-yr event
Inflow = 5.83 cfs @ 0.16 hrs, Volume= 0.177 af
Outflow = 5.83 cfs @ 0.15 hrs, Volume= 0.177 af, Atten= 0%, Lag= 0.0 min
Primary = 5.83 cfs @ 0.15 hrs, Volume= 0.177 af
Routed to Pond CI-A5 : CURB INLET A5

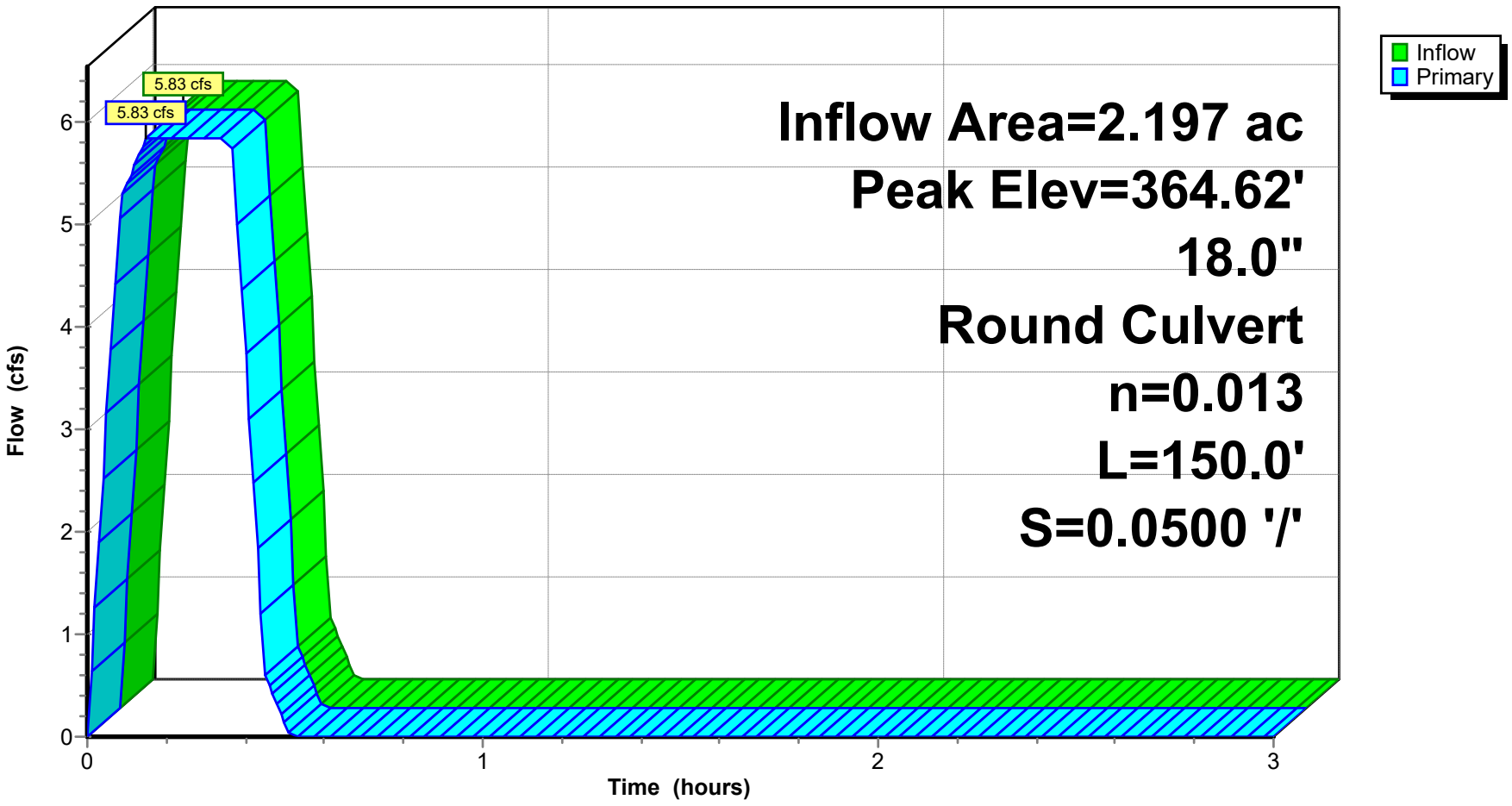
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 364.62' @ 0.15 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	363.62'	**18.0" Round RCP_Round 18"** L= 150.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 363.62' / 356.12' S= 0.0500 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.77 sf

Primary OutFlow Max=5.83 cfs @ 0.15 hrs HW=364.62' (Free Discharge)
1=RCP_Round 18" (Inlet Controls 5.83 cfs @ 4.65 fps)

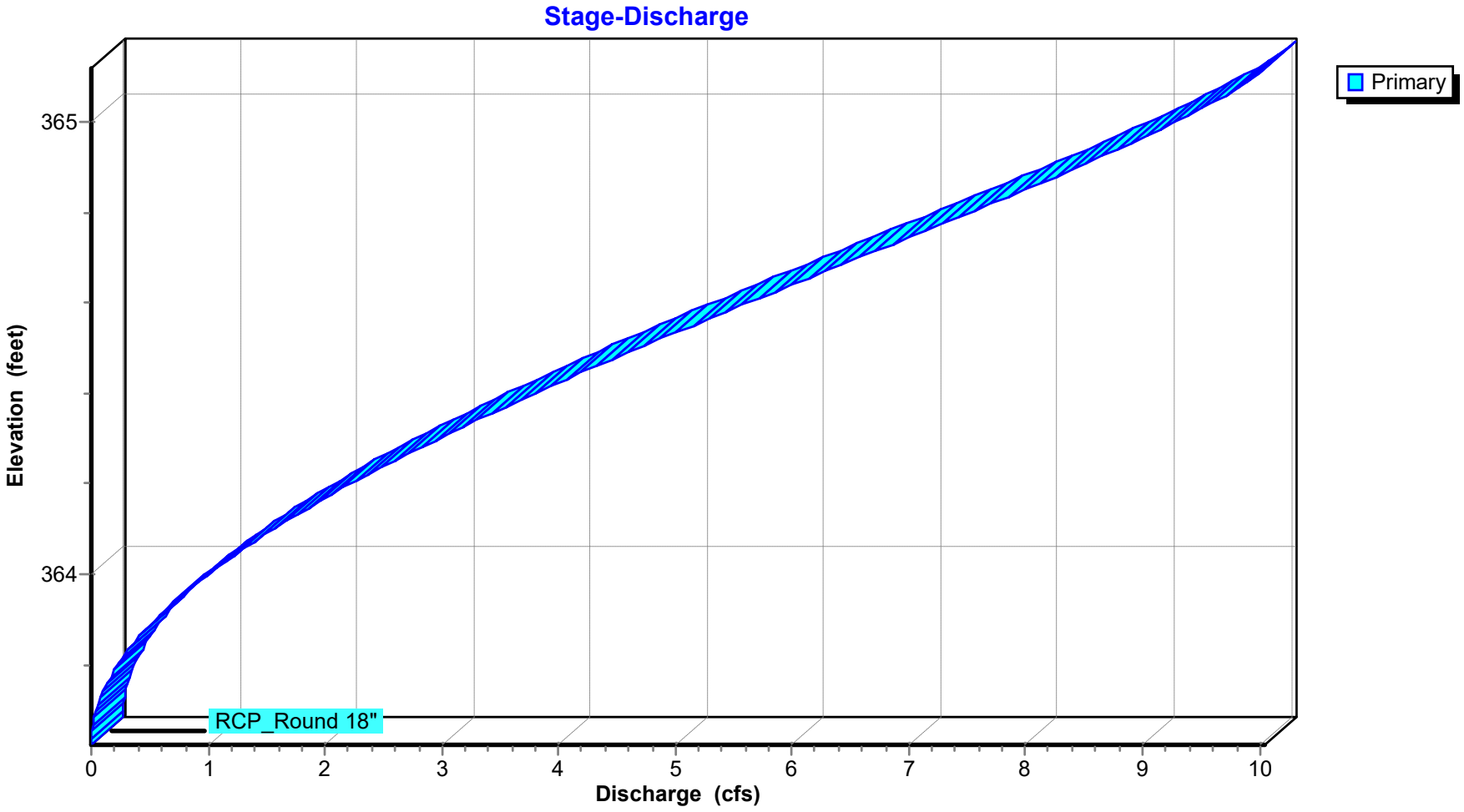
Pond CI-A4: CURB INLET A4

Hydrograph



Pond CI-A4: CURB INLET A4

Stage-Discharge



Stage-Area-Storage for Pond CI-A4: CURB INLET A4

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
363.62	**0.000**	364.54	0.000
363.63	0.000	364.55	0.000
363.64	0.000	364.56	0.000
363.65	0.000	364.57	0.000
363.66	0.000	364.58	0.000
363.67	0.000	364.59	0.000
363.68	0.000	364.60	0.000
363.69	0.000	364.61	0.000
363.70	0.000	364.62	0.000
363.71	0.000	364.63	0.000
363.72	0.000	364.64	0.000
363.73	0.000	364.65	0.000
363.74	0.000	364.66	0.000
363.75	0.000	364.67	0.000
363.76	0.000	364.68	0.000
363.77	0.000	364.69	0.000
363.78	0.000	364.70	0.000
363.79	0.000	364.71	0.000
363.80	0.000	364.72	0.000
363.81	0.000	364.73	0.000
363.82	0.000	364.74	0.000
363.83	0.000	364.75	0.000
363.84	0.000	364.76	0.000
363.85	0.000	364.77	0.000
363.86	0.000	364.78	0.000
363.87	0.000	364.79	0.000
363.88	0.000	364.80	0.000
363.89	0.000	364.81	0.000
363.90	0.000	364.82	0.000
363.91	0.000	364.83	0.000
363.92	0.000	364.84	0.000
363.93	0.000	364.85	0.000
363.94	0.000	364.86	0.000
363.95	0.000	364.87	0.000
363.96	0.000	364.88	0.000
363.97	0.000	364.89	0.000
363.98	0.000	364.90	0.000
363.99	0.000	364.91	0.000
364.00	0.000	364.92	0.000
364.01	0.000	364.93	0.000
364.02	0.000	364.94	0.000
364.03	0.000	364.95	0.000
364.04	0.000	364.96	0.000
364.05	0.000	364.97	0.000
364.06	0.000	364.98	0.000
364.07	0.000	364.99	0.000
364.08	0.000	365.00	0.000
364.09	0.000	365.01	0.000
364.10	0.000	365.02	0.000
364.11	0.000	365.03	0.000
364.12	0.000	365.04	0.000
364.13	0.000	365.05	0.000
364.14	0.000	365.06	0.000
364.15	0.000	365.07	0.000
364.16	0.000	365.08	0.000
364.17	0.000	365.09	0.000
364.18	0.000	365.10	0.000
364.19	0.000	365.11	0.000
364.20	0.000	365.12	0.000
364.21	0.000		
364.22	0.000		
364.23	0.000		
364.24	0.000		
364.25	0.000		
364.26	0.000		
364.27	0.000		
364.28	0.000		
364.29	0.000		
364.30	0.000		
364.31	0.000		
364.32	0.000		
364.33	0.000		
364.34	0.000		
364.35	0.000		
364.36	0.000		
364.37	0.000		
364.38	0.000		
364.39	0.000		
364.40	0.000		
364.41	0.000		
364.42	0.000		
364.43	0.000		
364.44	0.000		
364.45	0.000		
364.46	0.000		
364.47	0.000		
364.48	0.000		
364.49	0.000		
364.50	0.000		
364.51	0.000		
364.52	0.000		
364.53	0.000		

Summary for Pond CI-A5: CURB INLET A5

Inflow Area = 2.439 ac, 0.00% Impervious, Inflow Depth = 0.94" for 5-yr event
Inflow = 6.28 cfs @ 0.15 hrs, Volume= 0.190 af
Outflow = 6.28 cfs @ 0.16 hrs, Volume= 0.190 af, Atten= 0%, Lag= 0.6 min
Primary = 6.28 cfs @ 0.16 hrs, Volume= 0.190 af
Routed to Link POST-DEV : Post-Development

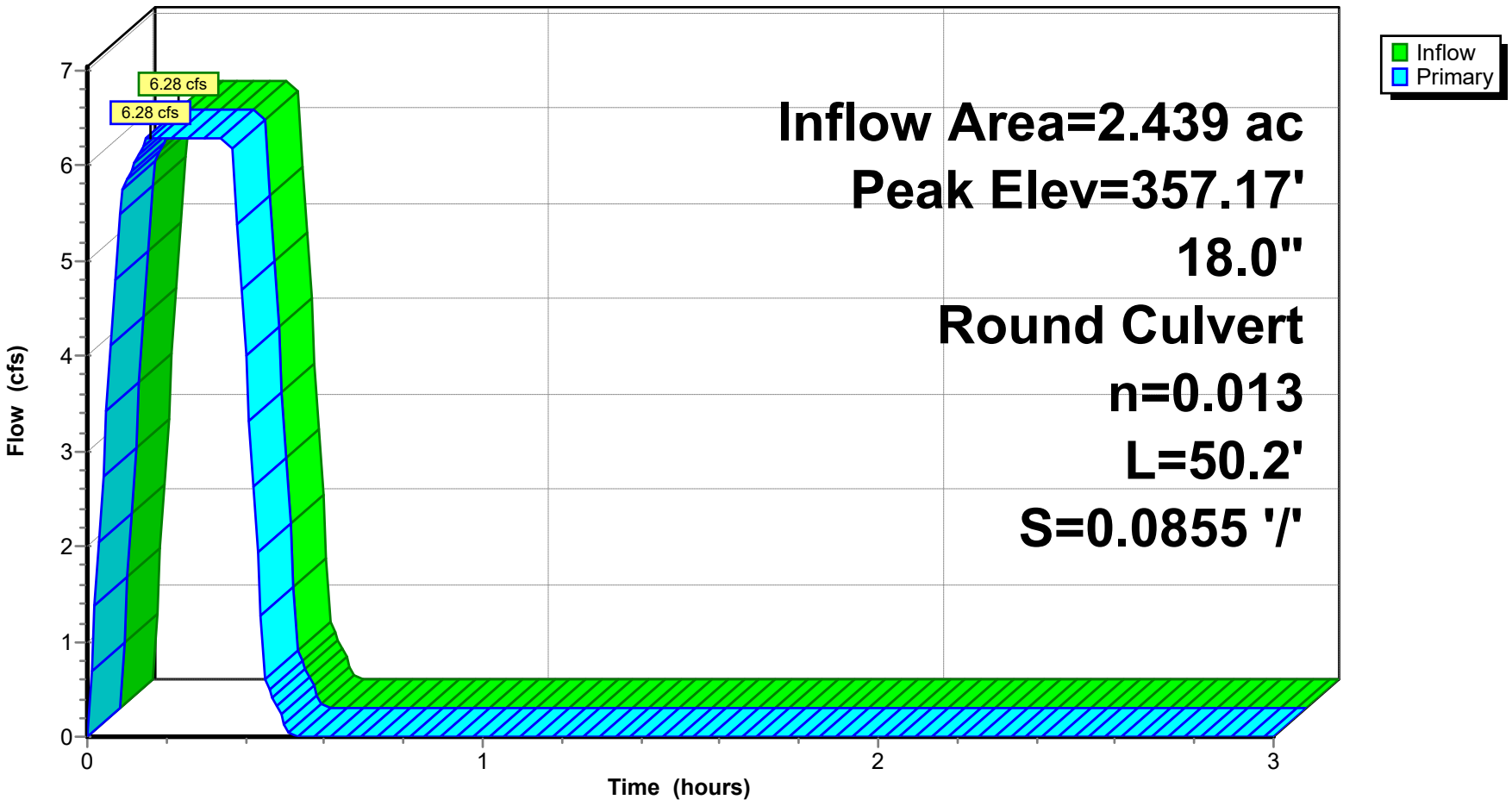
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 357.17' @ 0.15 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	356.12'	**18.0" Round RCP_Round 18** L= 50.2' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 356.12' / 351.83' S= 0.0855 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.77 sf

Primary OutFlow Max=6.28 cfs @ 0.16 hrs HW=357.17' (Free Discharge)
└**1=RCP_Round 18** (Inlet Controls 6.28 cfs @ 4.76 fps)

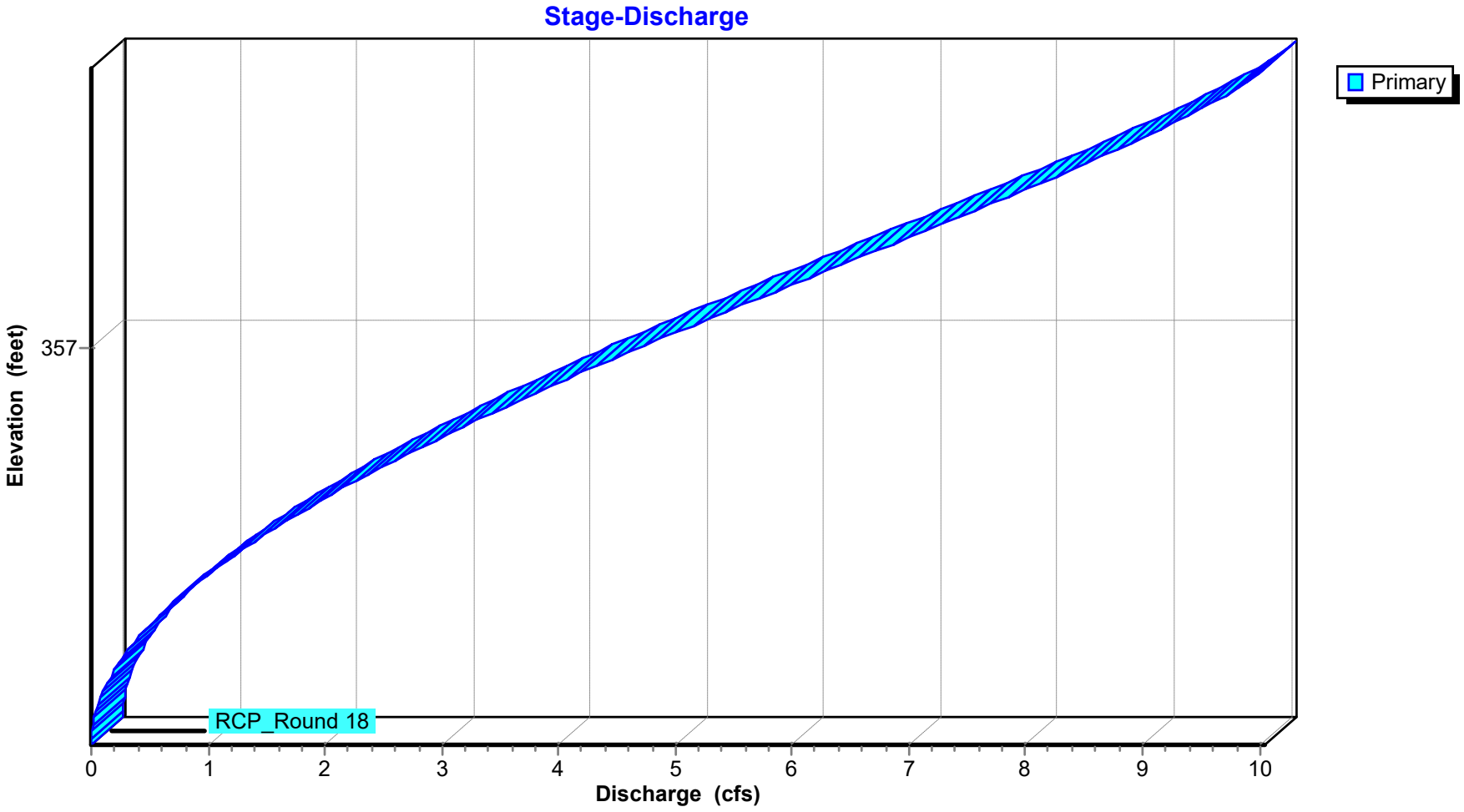
Pond CI-A5: CURB INLET A5

Hydrograph



Pond CI-A5: CURB INLET A5

Stage-Discharge



Stage-Area-Storage for Pond CI-A5: CURB INLET A5

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
356.12	**0.000**	357.04	0.000
356.13	0.000	357.05	0.000
356.14	0.000	357.06	0.000
356.15	0.000	357.07	0.000
356.16	0.000	357.08	0.000
356.17	0.000	357.09	0.000
356.18	0.000	357.10	0.000
356.19	0.000	357.11	0.000
356.20	0.000	357.12	0.000
356.21	0.000	357.13	0.000
356.22	0.000	357.14	0.000
356.23	0.000	357.15	0.000
356.24	0.000	357.16	0.000
356.25	0.000	357.17	0.000
356.26	0.000	357.18	0.000
356.27	0.000	357.19	0.000
356.28	0.000	357.20	0.000
356.29	0.000	357.21	0.000
356.30	0.000	357.22	0.000
356.31	0.000	357.23	0.000
356.32	0.000	357.24	0.000
356.33	0.000	357.25	0.000
356.34	0.000	357.26	0.000
356.35	0.000	357.27	0.000
356.36	0.000	357.28	0.000
356.37	0.000	357.29	0.000
356.38	0.000	357.30	0.000
356.39	0.000	357.31	0.000
356.40	0.000	357.32	0.000
356.41	0.000	357.33	0.000
356.42	0.000	357.34	0.000
356.43	0.000	357.35	0.000
356.44	0.000	357.36	0.000
356.45	0.000	357.37	0.000
356.46	0.000	357.38	0.000
356.47	0.000	357.39	0.000
356.48	0.000	357.40	0.000
356.49	0.000	357.41	0.000
356.50	0.000	357.42	0.000
356.51	0.000	357.43	0.000
356.52	0.000	357.44	0.000
356.53	0.000	357.45	0.000
356.54	0.000	357.46	0.000
356.55	0.000	357.47	0.000
356.56	0.000	357.48	0.000
356.57	0.000	357.49	0.000
356.58	0.000	357.50	0.000
356.59	0.000	357.51	0.000
356.60	0.000	357.52	0.000
356.61	0.000	357.53	0.000
356.62	0.000	357.54	0.000
356.63	0.000	357.55	0.000
356.64	0.000	357.56	0.000
356.65	0.000	357.57	0.000
356.66	0.000	357.58	0.000
356.67	0.000	357.59	0.000
356.68	0.000	357.60	0.000
356.69	0.000	357.61	0.000
356.70	0.000	357.62	0.000
356.71	0.000		
356.72	0.000		
356.73	0.000		
356.74	0.000		
356.75	0.000		
356.76	0.000		
356.77	0.000		
356.78	0.000		
356.79	0.000		
356.80	0.000		
356.81	0.000		
356.82	0.000		
356.83	0.000		
356.84	0.000		
356.85	0.000		
356.86	0.000		
356.87	0.000		
356.88	0.000		
356.89	0.000		
356.90	0.000		
356.91	0.000		
356.92	0.000		
356.93	0.000		
356.94	0.000		
356.95	0.000		
356.96	0.000		
356.97	0.000		
356.98	0.000		
356.99	0.000		
357.00	0.000		
357.01	0.000		
357.02	0.000		
357.03	0.000		

Summary for Pond CI-C1: CURB INLET C1

Inflow Area = 0.210 ac, 0.00% Impervious, Inflow Depth = 0.82" for 5-yr event
Inflow = 0.47 cfs @ 0.09 hrs, Volume= 0.014 af
Outflow = 0.47 cfs @ 0.10 hrs, Volume= 0.014 af, Atten= 0%, Lag= 0.6 min
Primary = 0.47 cfs @ 0.10 hrs, Volume= 0.014 af
Routed to Pond CI-C2 : CURB INLET C2

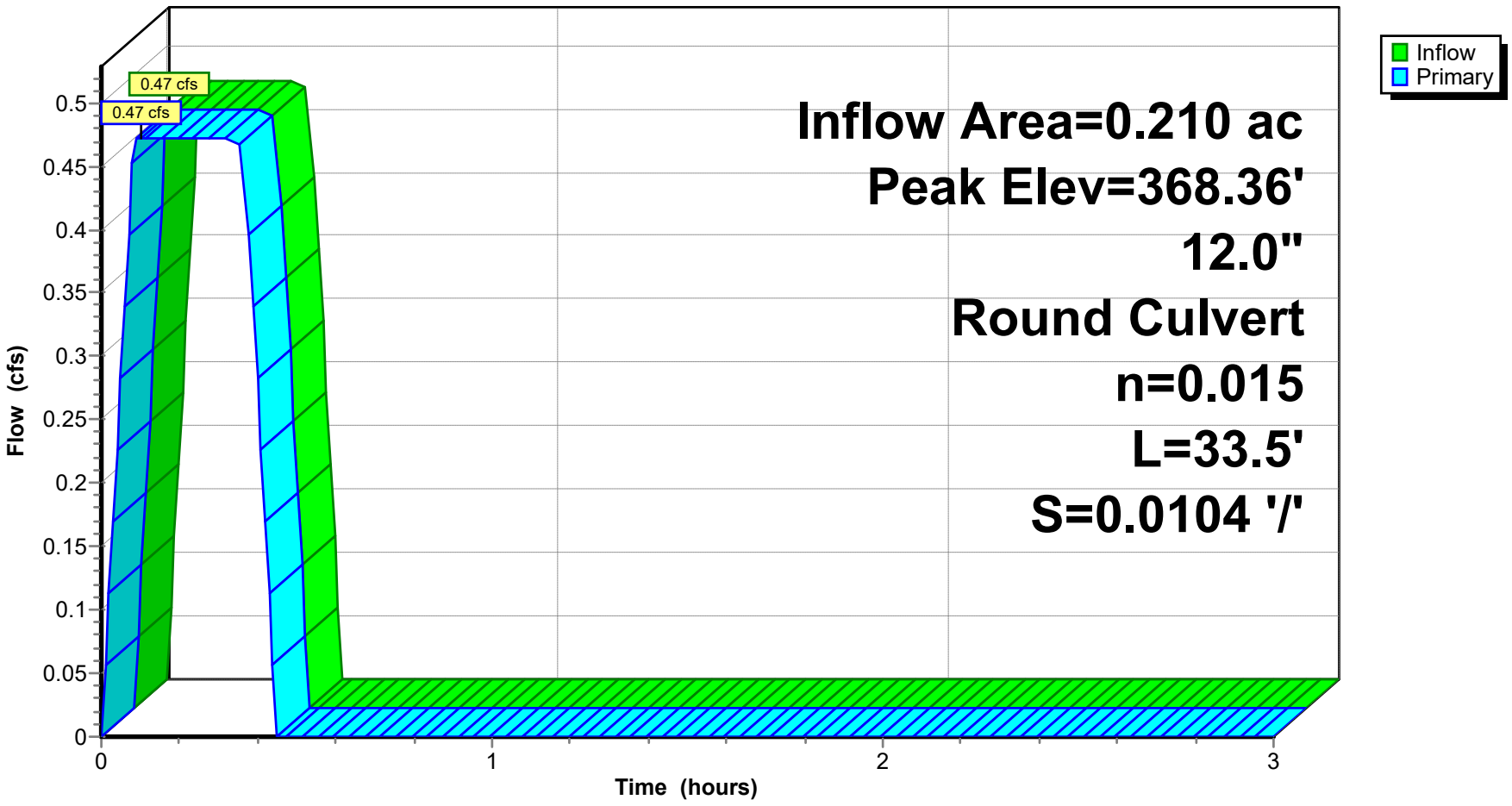
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 368.36' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	368.00'	**12.0" Round RCP_ROUND 12"** L= 33.5' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 368.00' / 367.65' S= 0.0104 '/' Cc= 0.900 n= 0.015 Concrete sewer w/manholes & inlets, Flow Area= 0.79 sf

Primary OutFlow Max=0.47 cfs @ 0.10 hrs HW=368.36' (Free Discharge)
1=RCP_ROUND 12" (Barrel Controls 0.47 cfs @ 2.76 fps)

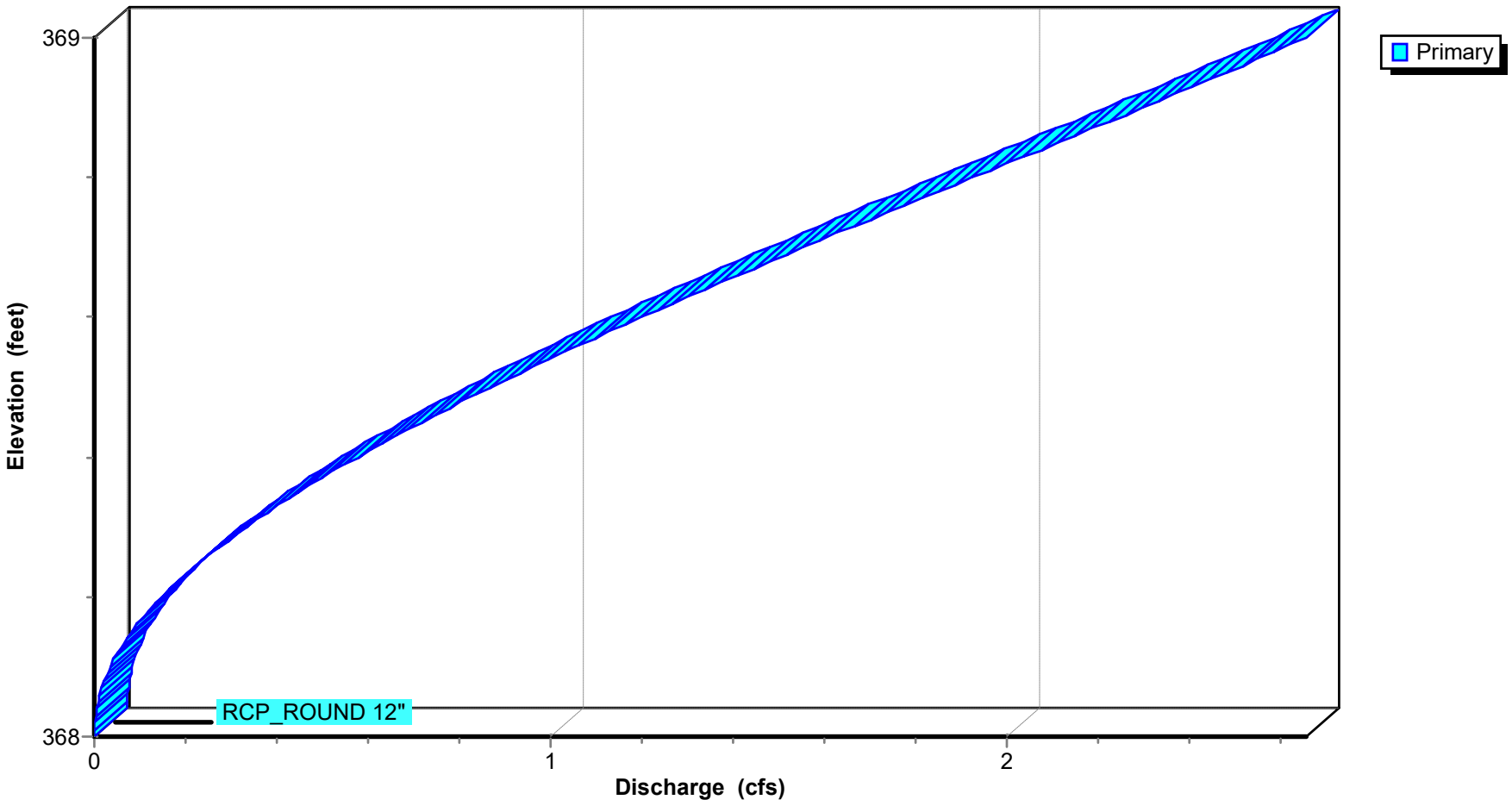
Pond CI-C1: CURB INLET C1

Hydrograph



Pond CI-C1: CURB INLET C1

Stage-Discharge



Stage-Area-Storage for Pond CI-C1: CURB INLET C1

Elevation (feet)	Storage (acre-feet)
368.00	**0.000**
368.01	0.000
368.02	0.000
368.03	0.000
368.04	0.000
368.05	0.000
368.06	0.000
368.07	0.000
368.08	0.000
368.09	0.000
368.10	0.000
368.11	0.000
368.12	0.000
368.13	0.000
368.14	0.000
368.15	0.000
368.16	0.000
368.17	0.000
368.18	0.000
368.19	0.000
368.20	0.000
368.21	0.000
368.22	0.000
368.23	0.000
368.24	0.000
368.25	0.000
368.26	0.000
368.27	0.000
368.28	0.000
368.29	0.000
368.30	0.000
368.31	0.000
368.32	0.000
368.33	0.000
368.34	0.000
368.35	0.000
368.36	0.000
368.37	0.000
368.38	0.000
368.39	0.000
368.40	0.000
368.41	0.000
368.42	0.000
368.43	0.000
368.44	0.000
368.45	0.000
368.46	0.000
368.47	0.000
368.48	0.000
368.49	0.000
368.50	0.000
368.51	0.000
368.52	0.000
368.53	0.000
368.54	0.000
368.55	0.000
368.56	0.000
368.57	0.000
368.58	0.000
368.59	0.000
368.60	0.000
368.61	0.000
368.62	0.000
368.63	0.000
368.64	0.000
368.65	0.000
368.66	0.000
368.67	0.000
368.68	0.000
368.69	0.000
368.70	0.000
368.71	0.000
368.72	0.000
368.73	0.000
368.74	0.000
368.75	0.000
368.76	0.000
368.77	0.000
368.78	0.000
368.79	0.000
368.80	0.000
368.81	0.000
368.82	0.000
368.83	0.000
368.84	0.000
368.85	0.000
368.86	0.000
368.87	0.000
368.88	0.000
368.89	0.000
368.90	0.000
368.91	0.000
368.92	0.000
368.93	0.000
368.94	0.000
368.95	0.000
368.96	0.000
368.97	0.000
368.98	0.000
368.99	0.000
369.00	0.000

Summary for Pond CI-C2: CURB INLET C2

Inflow Area = 0.247 ac, 0.00% Impervious, Inflow Depth = 0.81" for 5-yr event
Inflow = 0.55 cfs @ 0.10 hrs, Volume= 0.017 af
Outflow = 0.55 cfs @ 0.09 hrs, Volume= 0.017 af, Atten= 0%, Lag= 0.0 min
Primary = 0.55 cfs @ 0.09 hrs, Volume= 0.017 af
Routed to Pond JB-C3 : JUNCTION BOX C3

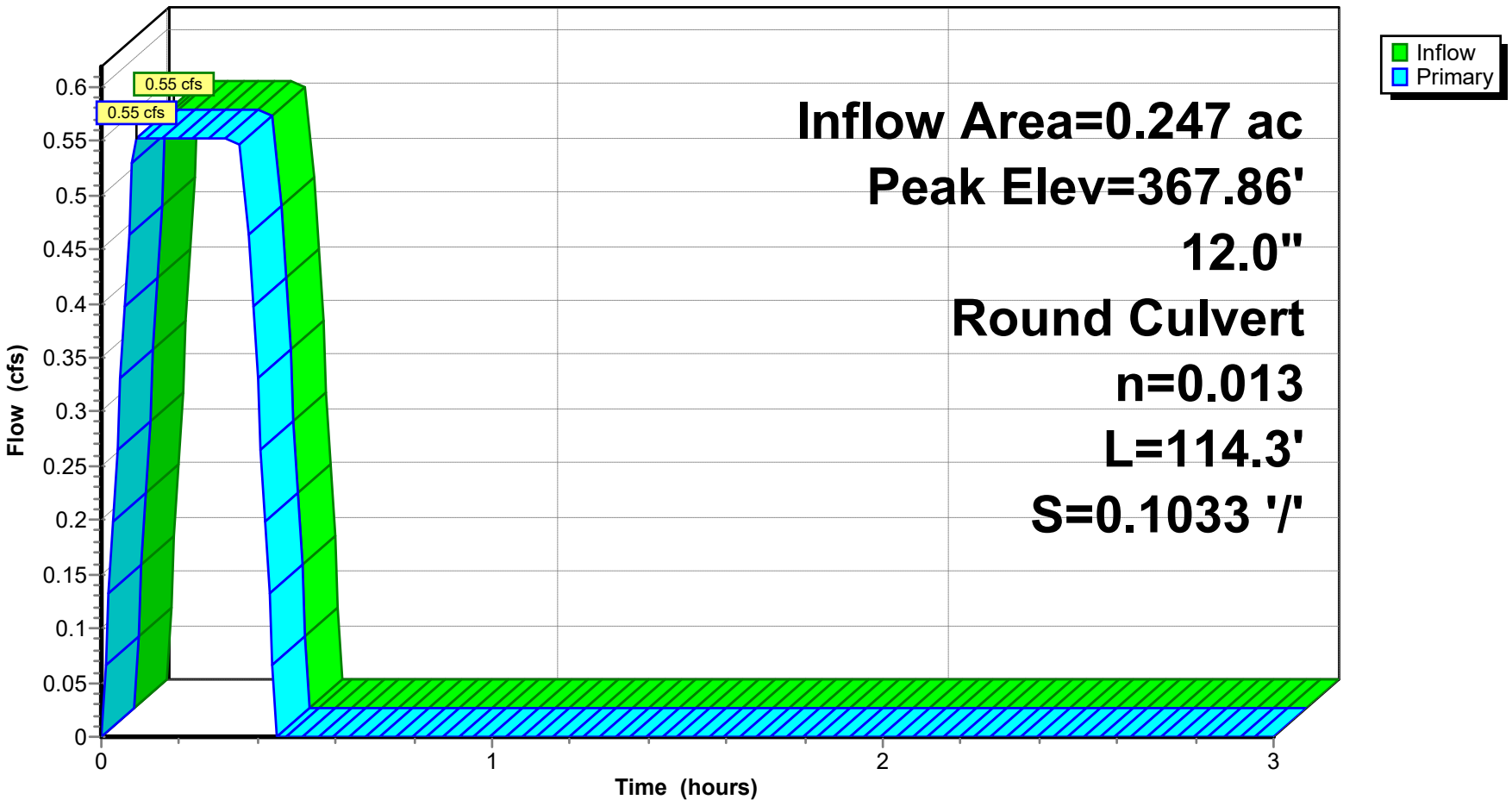
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 367.86' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	367.55'	**12.0" Round RCP_ROUND 12"** L= 114.3' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 367.55' / 355.74' S= 0.1033 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf

Primary OutFlow Max=0.55 cfs @ 0.09 hrs HW=367.86' (Free Discharge)
1=RCP_ROUND 12" (Inlet Controls 0.55 cfs @ 2.61 fps)

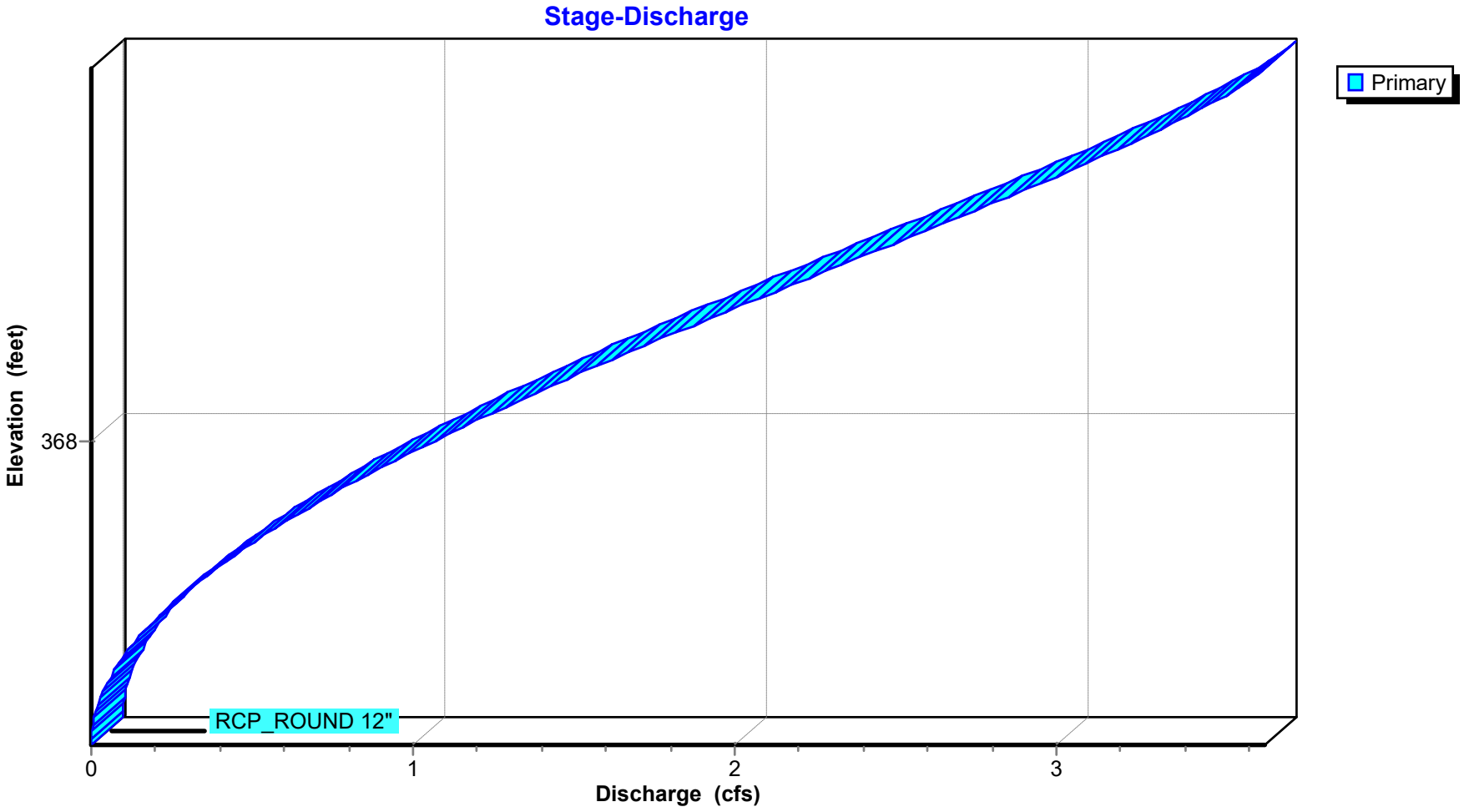
Pond CI-C2: CURB INLET C2

Hydrograph



Pond CI-C2: CURB INLET C2

Stage-Discharge



Stage-Area-Storage for Pond CI-C2: CURB INLET C2

Elevation (feet)	Storage (acre-feet)
367.55	**0.000**
367.56	0.000
367.57	0.000
367.58	0.000
367.59	0.000
367.60	0.000
367.61	0.000
367.62	0.000
367.63	0.000
367.64	0.000
367.65	0.000
367.66	0.000
367.67	0.000
367.68	0.000
367.69	0.000
367.70	0.000
367.71	0.000
367.72	0.000
367.73	0.000
367.74	0.000
367.75	0.000
367.76	0.000
367.77	0.000
367.78	0.000
367.79	0.000
367.80	0.000
367.81	0.000
367.82	0.000
367.83	0.000
367.84	0.000
367.85	0.000
367.86	0.000
367.87	0.000
367.88	0.000
367.89	0.000
367.90	0.000
367.91	0.000
367.92	0.000
367.93	0.000
367.94	0.000
367.95	0.000
367.96	0.000
367.97	0.000
367.98	0.000
367.99	0.000
368.00	0.000
368.01	0.000
368.02	0.000
368.03	0.000
368.04	0.000
368.05	0.000
368.06	0.000
368.07	0.000
368.08	0.000
368.09	0.000
368.10	0.000
368.11	0.000
368.12	0.000
368.13	0.000
368.14	0.000
368.15	0.000
368.16	0.000
368.17	0.000
368.18	0.000
368.19	0.000
368.20	0.000
368.21	0.000
368.22	0.000
368.23	0.000
368.24	0.000
368.25	0.000
368.26	0.000
368.27	0.000
368.28	0.000
368.29	0.000
368.30	0.000
368.31	0.000
368.32	0.000
368.33	0.000
368.34	0.000
368.35	0.000
368.36	0.000
368.37	0.000
368.38	0.000
368.39	0.000
368.40	0.000
368.41	0.000
368.42	0.000
368.43	0.000
368.44	0.000
368.45	0.000
368.46	0.000
368.47	0.000
368.48	0.000
368.49	0.000
368.50	0.000
368.51	0.000
368.52	0.000
368.53	0.000
368.54	0.000
368.55	0.000

Summary for Pond CI-C4: CURB INLET C4

Inflow Area = 0.965 ac, 0.00% Impervious, Inflow Depth = 0.82" for 5-yr event
Inflow = 2.17 cfs @ 0.09 hrs, Volume= 0.066 af
Outflow = 2.17 cfs @ 0.09 hrs, Volume= 0.066 af, Atten= 0%, Lag= 0.0 min
Primary = 2.17 cfs @ 0.09 hrs, Volume= 0.066 af
Routed to Pond CI-C5 : CURB INLET C5

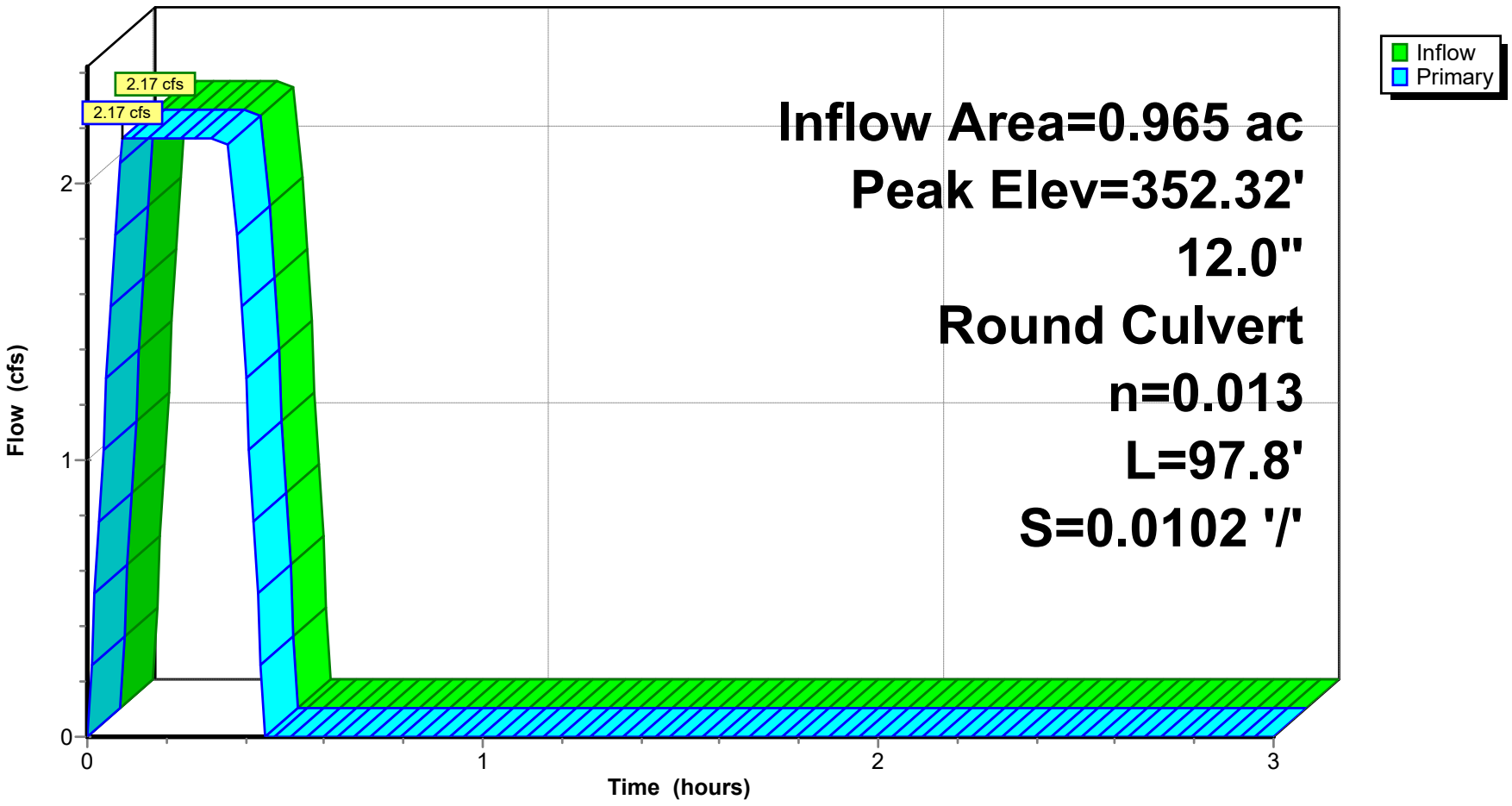
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 352.32' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	351.53'	**12.0" Round RCP_ROUND 12"** L= 97.8' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 351.53' / 350.53' S= 0.0102 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf

Primary OutFlow Max=2.17 cfs @ 0.09 hrs HW=352.32' (Free Discharge)
1=RCP_ROUND 12" (Barrel Controls 2.17 cfs @ 4.50 fps)

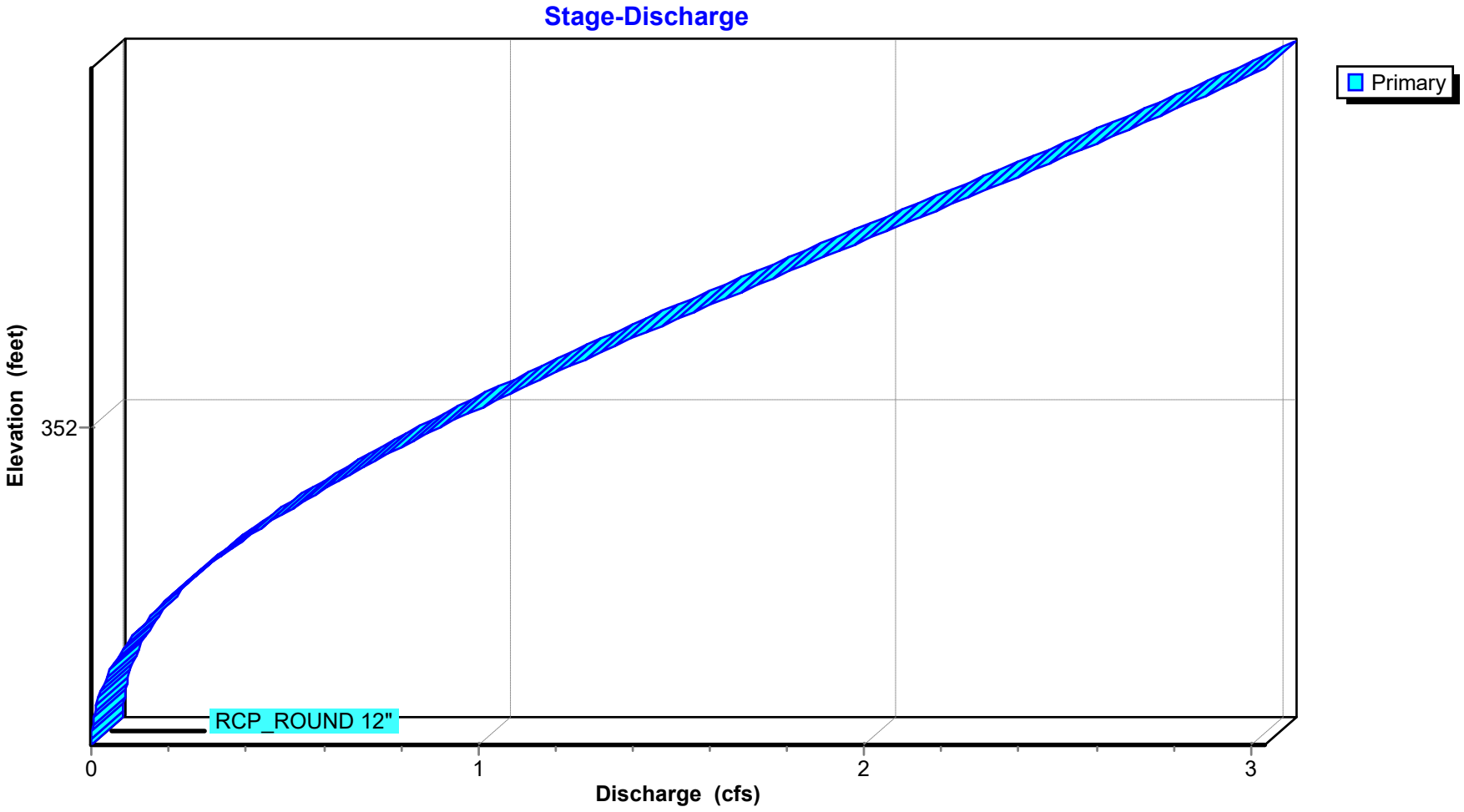
Pond CI-C4: CURB INLET C4

Hydrograph



Pond CI-C4: CURB INLET C4

Stage-Discharge



Stage-Area-Storage for Pond CI-C4: CURB INLET C4

Elevation (feet)	Storage (acre-feet)
351.53	**0.000**
351.54	0.000
351.55	0.000
351.56	0.000
351.57	0.000
351.58	0.000
351.59	0.000
351.60	0.000
351.61	0.000
351.62	0.000
351.63	0.000
351.64	0.000
351.65	0.000
351.66	0.000
351.67	0.000
351.68	0.000
351.69	0.000
351.70	0.000
351.71	0.000
351.72	0.000
351.73	0.000
351.74	0.000
351.75	0.000
351.76	0.000
351.77	0.000
351.78	0.000
351.79	0.000
351.80	0.000
351.81	0.000
351.82	0.000
351.83	0.000
351.84	0.000
351.85	0.000
351.86	0.000
351.87	0.000
351.88	0.000
351.89	0.000
351.90	0.000
351.91	0.000
351.92	0.000
351.93	0.000
351.94	0.000
351.95	0.000
351.96	0.000
351.97	0.000
351.98	0.000
351.99	0.000
352.00	0.000
352.01	0.000
352.02	0.000
352.03	0.000
352.04	0.000
352.05	0.000
352.06	0.000
352.07	0.000
352.08	0.000
352.09	0.000
352.10	0.000
352.11	0.000
352.12	0.000
352.13	0.000
352.14	0.000
352.15	0.000
352.16	0.000
352.17	0.000
352.18	0.000
352.19	0.000
352.20	0.000
352.21	0.000
352.22	0.000
352.23	0.000
352.24	0.000
352.25	0.000
352.26	0.000
352.27	0.000
352.28	0.000
352.29	0.000
352.30	0.000
352.31	0.000
352.32	0.000
352.33	0.000
352.34	0.000
352.35	0.000
352.36	0.000
352.37	0.000
352.38	0.000
352.39	0.000
352.40	0.000
352.41	0.000
352.42	0.000
352.43	0.000
352.44	0.000

Elevation (feet)	Storage (acre-feet)
352.45	0.000
352.46	0.000
352.47	0.000
352.48	0.000
352.49	0.000
352.50	0.000
352.51	0.000
352.52	0.000
352.53	0.000

Summary for Pond CI-C5: CURB INLET C5

Inflow Area = 1.429 ac, 0.00% Impervious, Inflow Depth = 0.79" for 5-yr event
Inflow = 3.12 cfs @ 0.09 hrs, Volume= 0.095 af
Outflow = 3.12 cfs @ 0.10 hrs, Volume= 0.095 af, Atten= 0%, Lag= 0.6 min
Primary = 3.12 cfs @ 0.10 hrs, Volume= 0.095 af
Routed to Link POST-DEV : Post-Development

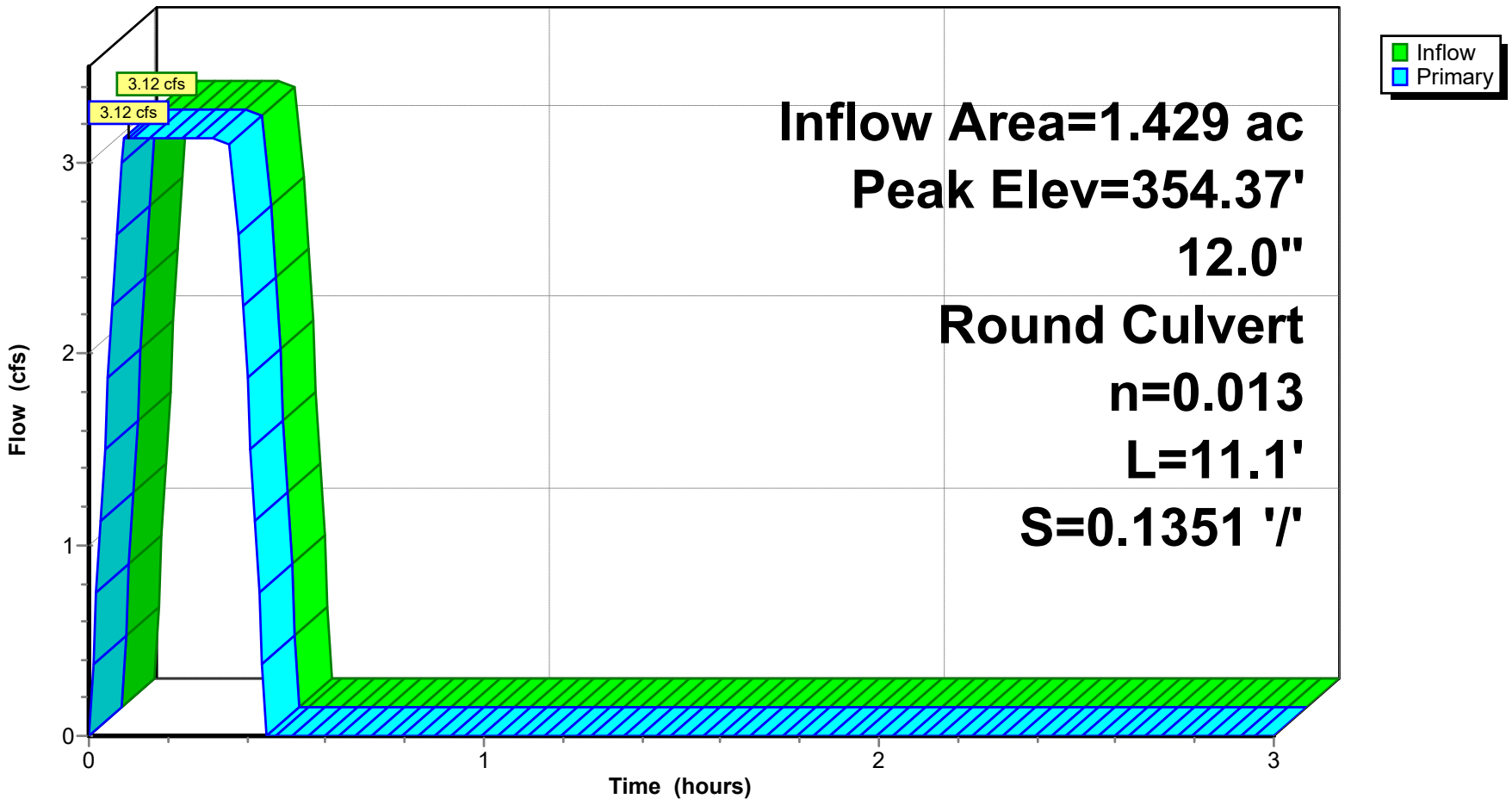
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 354.37' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	353.50'	**12.0" Round RCP_ROUND 12"** L= 11.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 353.50' / 352.00' S= 0.1351 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf

Primary OutFlow Max=3.12 cfs @ 0.10 hrs HW=354.37' (Free Discharge)
1=RCP_ROUND 12" (Inlet Controls 3.12 cfs @ 4.32 fps)

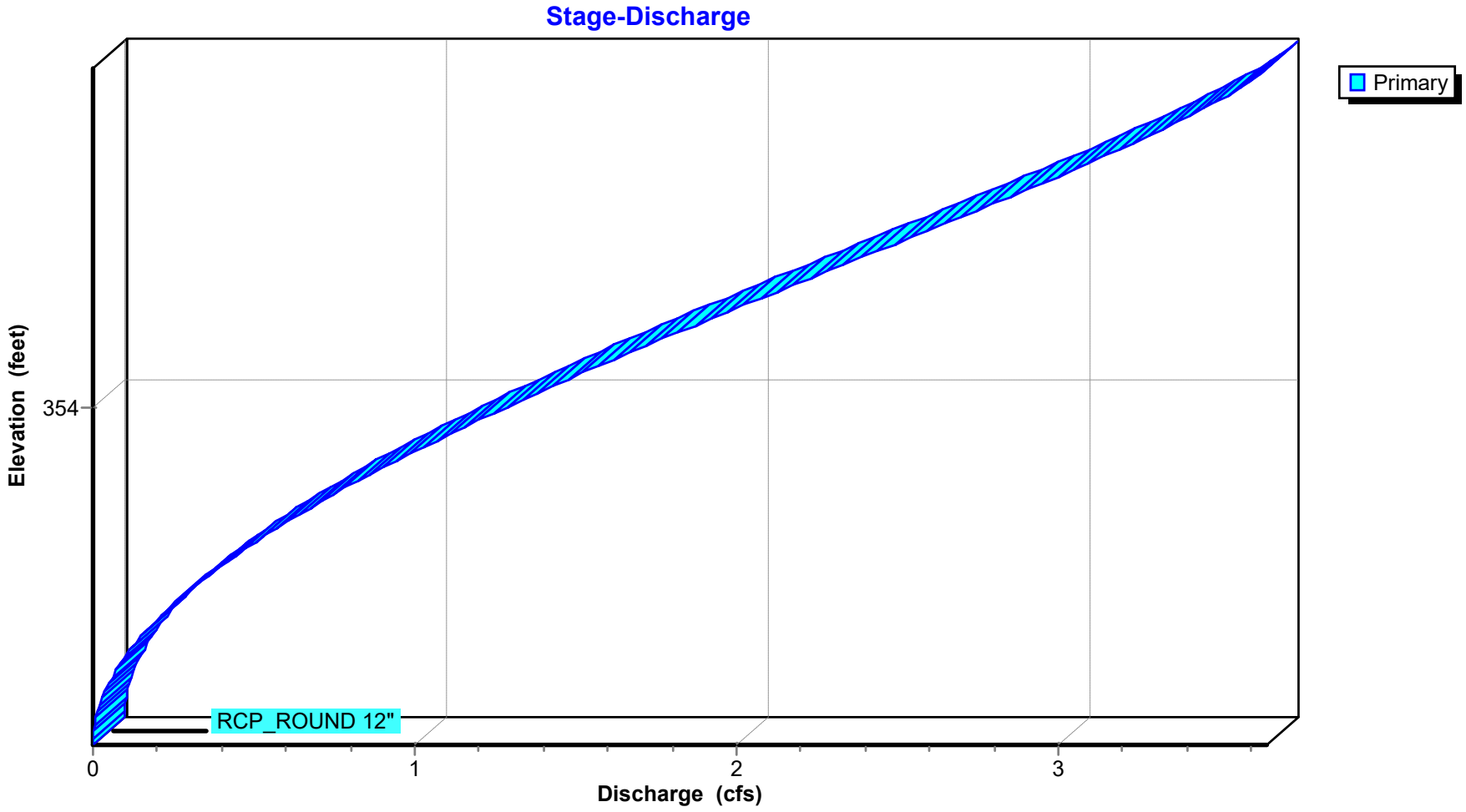
Pond CI-C5: CURB INLET C5

Hydrograph



Pond CI-C5: CURB INLET C5

Stage-Discharge



Stage-Area-Storage for Pond CI-C5: CURB INLET C5

Elevation (feet)	Storage (acre-feet)
353.50	**0.000**
353.51	0.000
353.52	0.000
353.53	0.000
353.54	0.000
353.55	0.000
353.56	0.000
353.57	0.000
353.58	0.000
353.59	0.000
353.60	0.000
353.61	0.000
353.62	0.000
353.63	0.000
353.64	0.000
353.65	0.000
353.66	0.000
353.67	0.000
353.68	0.000
353.69	0.000
353.70	0.000
353.71	0.000
353.72	0.000
353.73	0.000
353.74	0.000
353.75	0.000
353.76	0.000
353.77	0.000
353.78	0.000
353.79	0.000
353.80	0.000
353.81	0.000
353.82	0.000
353.83	0.000
353.84	0.000
353.85	0.000
353.86	0.000
353.87	0.000
353.88	0.000
353.89	0.000
353.90	0.000
353.91	0.000
353.92	0.000
353.93	0.000
353.94	0.000
353.95	0.000
353.96	0.000
353.97	0.000
353.98	0.000
353.99	0.000
354.00	0.000
354.01	0.000
354.02	0.000
354.03	0.000
354.04	0.000
354.05	0.000
354.06	0.000
354.07	0.000
354.08	0.000
354.09	0.000
354.10	0.000
354.11	0.000
354.12	0.000
354.13	0.000
354.14	0.000
354.15	0.000
354.16	0.000
354.17	0.000
354.18	0.000
354.19	0.000
354.20	0.000
354.21	0.000
354.22	0.000
354.23	0.000
354.24	0.000
354.25	0.000
354.26	0.000
354.27	0.000
354.28	0.000
354.29	0.000
354.30	0.000
354.31	0.000
354.32	0.000
354.33	0.000
354.34	0.000
354.35	0.000
354.36	0.000
354.37	0.000
354.38	0.000
354.39	0.000
354.40	0.000
354.41	0.000

Elevation (feet)	Storage (acre-feet)
354.42	0.000
354.43	0.000
354.44	0.000
354.45	0.000
354.46	0.000
354.47	0.000
354.48	0.000
354.49	0.000
354.50	0.000

Summary for Pond CI-D1: CURB INLET D1

Inflow Area = 0.627 ac, 0.00% Impervious, Inflow Depth = 0.79" for 5-yr event
Inflow = 1.36 cfs @ 0.09 hrs, Volume= 0.041 af
Outflow = 1.36 cfs @ 0.09 hrs, Volume= 0.041 af, Atten= 0%, Lag= 0.0 min
Primary = 1.36 cfs @ 0.09 hrs, Volume= 0.041 af
Routed to Pond CI-C4 : CURB INLET C4

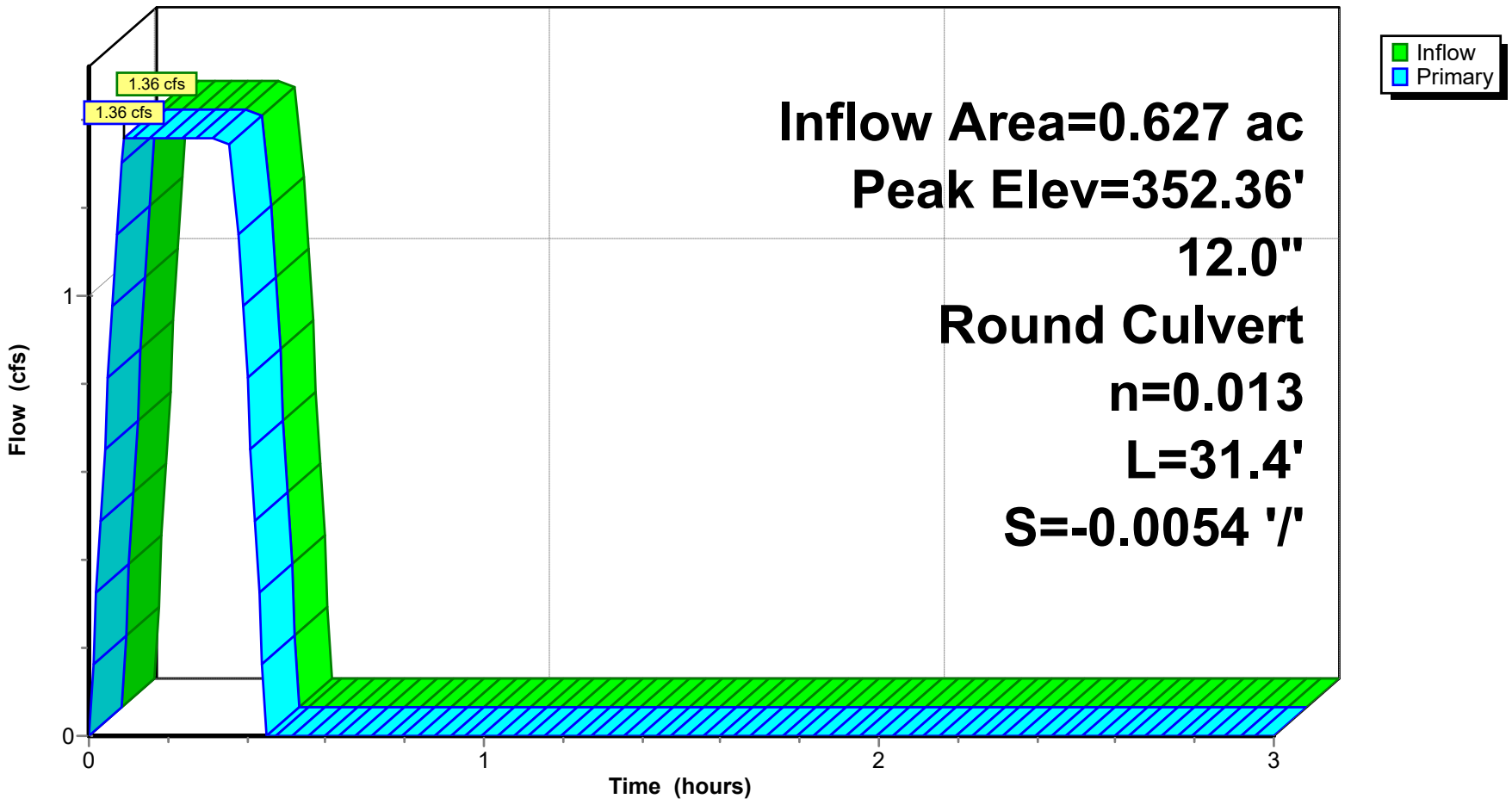
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 352.36' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	351.70'	**12.0" Round RCP_ROUND 12"** L= 31.4' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 351.53' / 351.70' S= -0.0054 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf

Primary OutFlow Max=1.36 cfs @ 0.09 hrs HW=352.36' (Free Discharge)
1=RCP_ROUND 12" (Barrel Controls 1.36 cfs @ 2.63 fps)

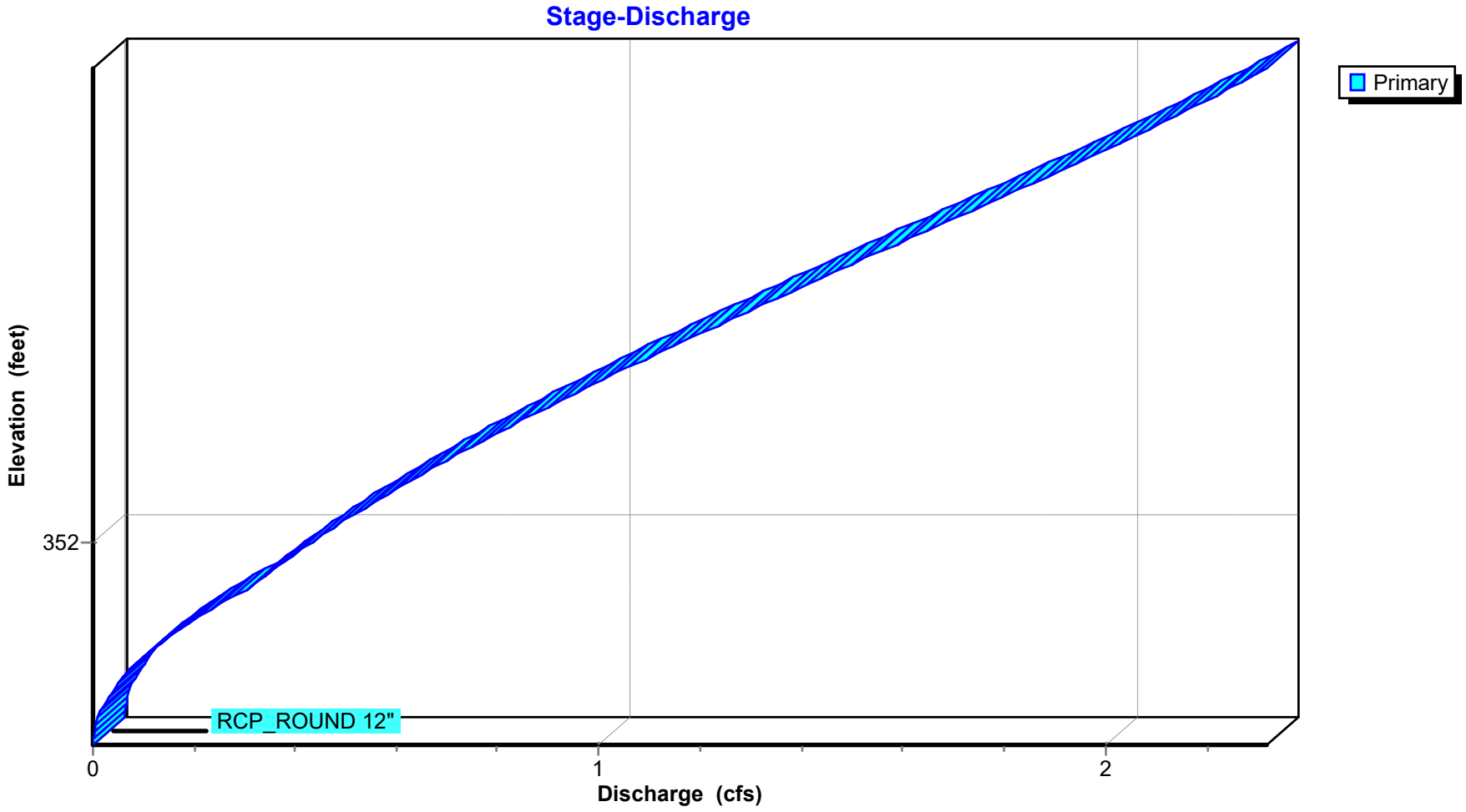
Pond CI-D1: CURB INLET D1

Hydrograph



Pond CI-D1: CURB INLET D1

Stage-Discharge



Stage-Area-Storage for Pond CI-D1: CURB INLET D1

Elevation (feet)	Storage (acre-feet)
351.70	**0.000**
351.71	0.000
351.72	0.000
351.73	0.000
351.74	0.000
351.75	0.000
351.76	0.000
351.77	0.000
351.78	0.000
351.79	0.000
351.80	0.000
351.81	0.000
351.82	0.000
351.83	0.000
351.84	0.000
351.85	0.000
351.86	0.000
351.87	0.000
351.88	0.000
351.89	0.000
351.90	0.000
351.91	0.000
351.92	0.000
351.93	0.000
351.94	0.000
351.95	0.000
351.96	0.000
351.97	0.000
351.98	0.000
351.99	0.000
352.00	0.000
352.01	0.000
352.02	0.000
352.03	0.000
352.04	0.000
352.05	0.000
352.06	0.000
352.07	0.000
352.08	0.000
352.09	0.000
352.10	0.000
352.11	0.000
352.12	0.000
352.13	0.000
352.14	0.000
352.15	0.000
352.16	0.000
352.17	0.000
352.18	0.000
352.19	0.000
352.20	0.000
352.21	0.000
352.22	0.000
352.23	0.000
352.24	0.000
352.25	0.000
352.26	0.000
352.27	0.000
352.28	0.000
352.29	0.000
352.30	0.000
352.31	0.000
352.32	0.000
352.33	0.000
352.34	0.000
352.35	0.000
352.36	0.000
352.37	0.000
352.38	0.000
352.39	0.000
352.40	0.000
352.41	0.000
352.42	0.000
352.43	0.000
352.44	0.000
352.45	0.000
352.46	0.000
352.47	0.000
352.48	0.000
352.49	0.000
352.50	0.000
352.51	0.000
352.52	0.000
352.53	0.000
352.54	0.000
352.55	0.000
352.56	0.000
352.57	0.000
352.58	0.000
352.59	0.000
352.60	0.000
352.61	0.000
352.62	0.000
352.63	0.000
352.64	0.000
352.65	0.000
352.66	0.000
352.67	0.000
352.68	0.000
352.69	0.000
352.70	0.000

Summary for Pond JB-C3: JUNCTION BOX C3

Inflow Area = 0.247 ac, 0.00% Impervious, Inflow Depth = 0.81" for 5-yr event
Inflow = 0.55 cfs @ 0.09 hrs, Volume= 0.017 af
Outflow = 0.55 cfs @ 0.09 hrs, Volume= 0.017 af, Atten= 0%, Lag= 0.0 min
Primary = 0.55 cfs @ 0.09 hrs, Volume= 0.017 af
Routed to Pond CI-C4 : CURB INLET C4

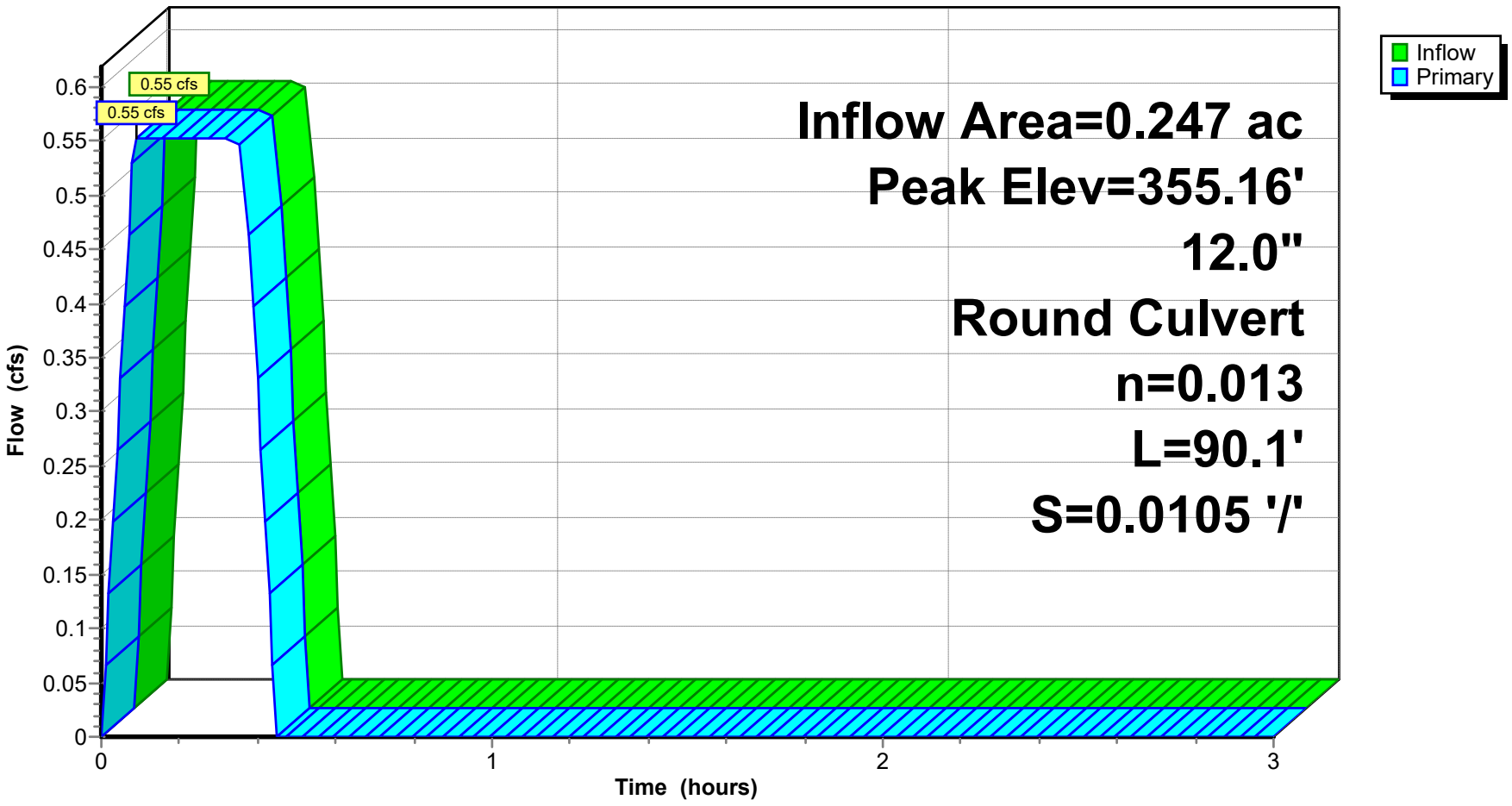
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 355.16' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	354.80'	**12.0" Round RCP_ROUND 12"** L= 90.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 354.80' / 353.85' S= 0.0105 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf

Primary OutFlow Max=0.55 cfs @ 0.09 hrs HW=355.16' (Free Discharge)
1=RCP_ROUND 12" (Barrel Controls 0.55 cfs @ 3.24 fps)

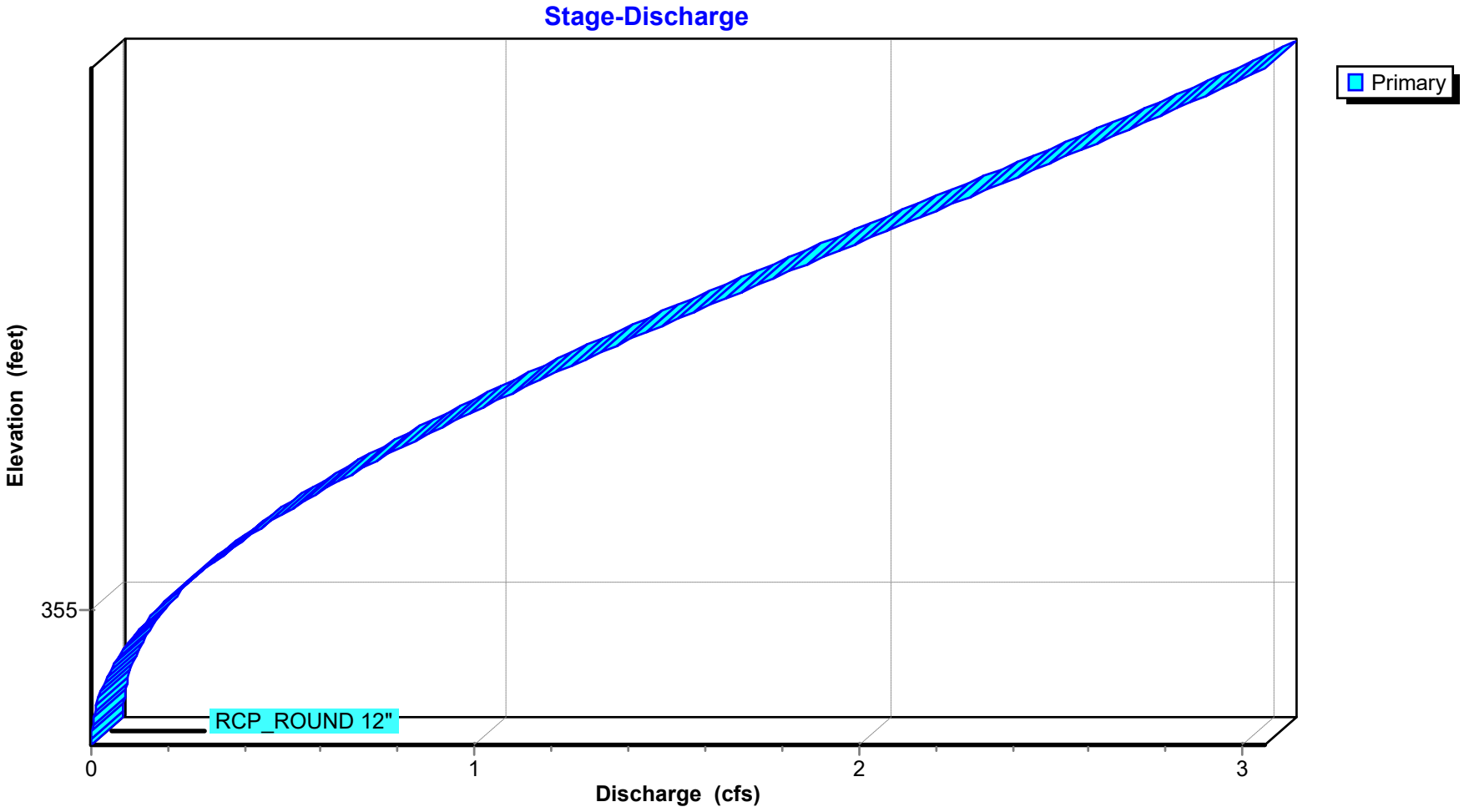
Pond JB-C3: JUNCTION BOX C3

Hydrograph



Pond JB-C3: JUNCTION BOX C3

Stage-Discharge



Stage-Area-Storage for Pond JB-C3: JUNCTION BOX C3

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
354.80	**0.000**	355.72	0.000
354.81	0.000	355.73	0.000
354.82	0.000	355.74	0.000
354.83	0.000	355.75	0.000
354.84	0.000	355.76	0.000
354.85	0.000	355.77	0.000
354.86	0.000	355.78	0.000
354.87	0.000	355.79	0.000
354.88	0.000	355.80	0.000
354.89	0.000		
354.90	0.000		
354.91	0.000		
354.92	0.000		
354.93	0.000		
354.94	0.000		
354.95	0.000		
354.96	0.000		
354.97	0.000		
354.98	0.000		
354.99	0.000		
355.00	0.000		
355.01	0.000		
355.02	0.000		
355.03	0.000		
355.04	0.000		
355.05	0.000		
355.06	0.000		
355.07	0.000		
355.08	0.000		
355.09	0.000		
355.10	0.000		
355.11	0.000		
355.12	0.000		
355.13	0.000		
355.14	0.000		
355.15	0.000		
355.16	0.000		
355.17	0.000		
355.18	0.000		
355.19	0.000		
355.20	0.000		
355.21	0.000		
355.22	0.000		
355.23	0.000		
355.24	0.000		
355.25	0.000		
355.26	0.000		
355.27	0.000		
355.28	0.000		
355.29	0.000		
355.30	0.000		
355.31	0.000		
355.32	0.000		
355.33	0.000		
355.34	0.000		
355.35	0.000		
355.36	0.000		
355.37	0.000		
355.38	0.000		
355.39	0.000		
355.40	0.000		
355.41	0.000		
355.42	0.000		
355.43	0.000		
355.44	0.000		
355.45	0.000		
355.46	0.000		
355.47	0.000		
355.48	0.000		
355.49	0.000		
355.50	0.000		
355.51	0.000		
355.52	0.000		
355.53	0.000		
355.54	0.000		
355.55	0.000		
355.56	0.000		
355.57	0.000		
355.58	0.000		
355.59	0.000		
355.60	0.000		
355.61	0.000		
355.62	0.000		
355.63	0.000		
355.64	0.000		
355.65	0.000		
355.66	0.000		
355.67	0.000		
355.68	0.000		
355.69	0.000		
355.70	0.000		
355.71	0.000		

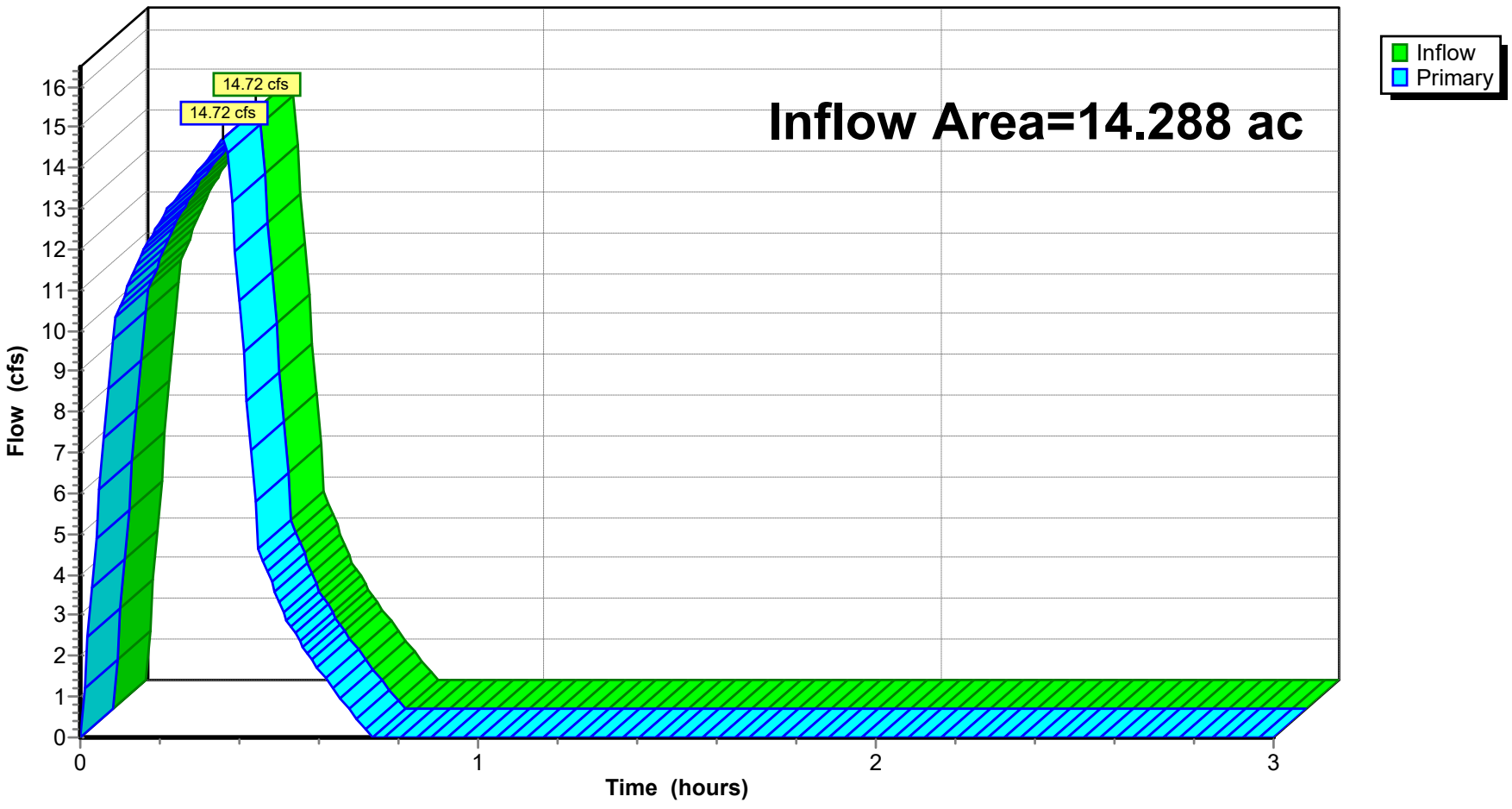
Summary for Link POST-DEV: Post-Development

Inflow Area = 14.288 ac, 0.00% Impervious, Inflow Depth = 0.38" for 5-yr event
Inflow = 14.72 cfs @ 0.36 hrs, Volume= 0.448 af
Primary = 14.72 cfs @ 0.36 hrs, Volume= 0.448 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Link POST-DEV: Post-Development

Hydrograph



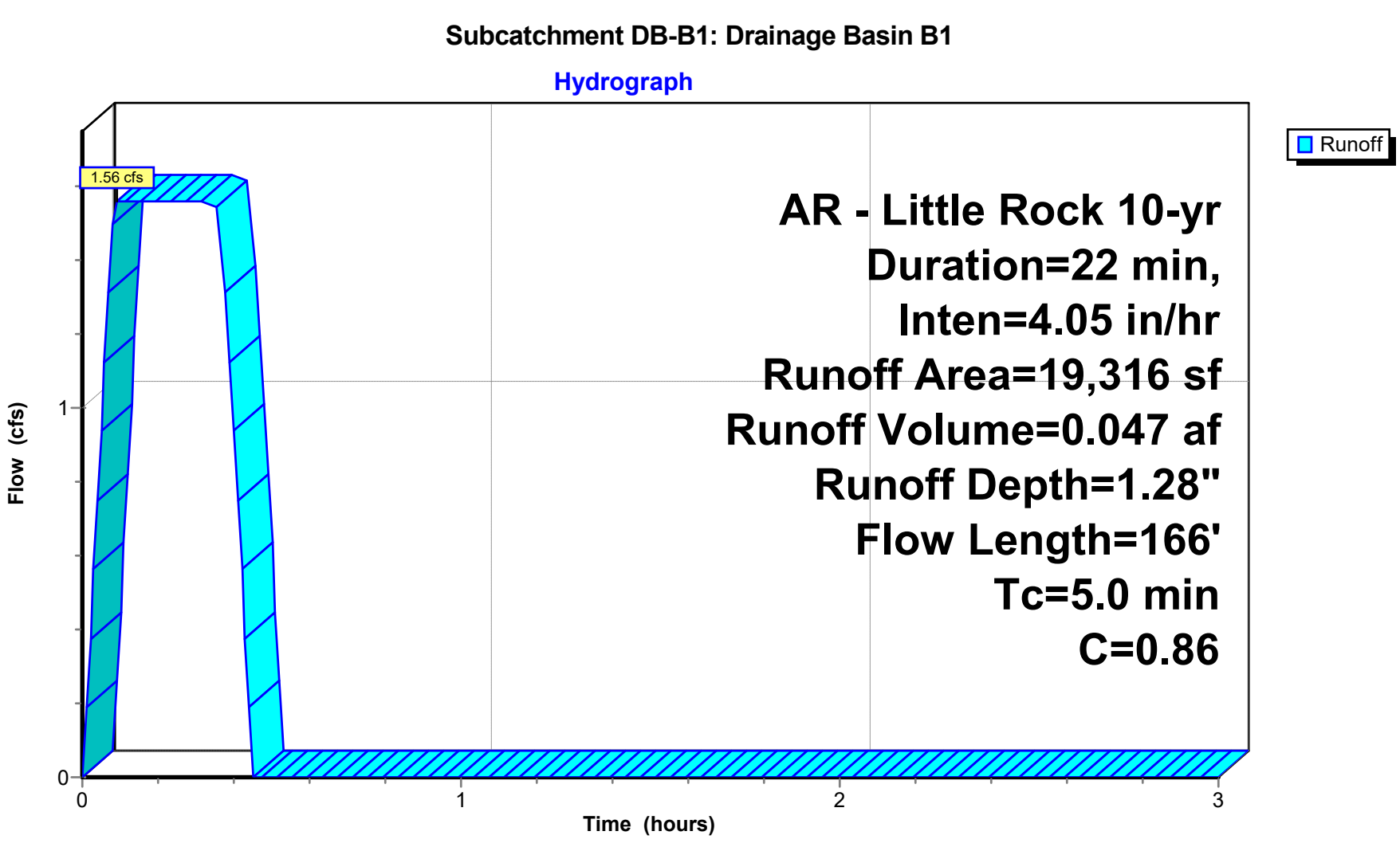
Summary for Subcatchment DB-B1: Drainage Basin B1

Runoff = 1.56 cfs @ 0.09 hrs, Volume= 0.047 af, Depth= 1.28"
Routed to Pond CI-A1 : CURB INLET A1

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 10-yr Duration=22 min, Inten=4.05 in/hr

Area (sf)	C	Description
1,941	0.30	Sandy Soil 2-7% per manual
17,375	0.92	Paved Areas
19,316	0.86	Weighted Average
19,316		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.5	33	0.0200	0.16		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
0.6	67	0.0350	1.82		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.5	66	0.0100	2.03		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
0.4					**Direct Entry, Minimum Adjustment**
5.0	166	Total			



Summary for Subcatchment DB-B10: Drainage Basin B10

Runoff = 0.29 cfs @ 0.09 hrs, Volume= 0.009 af, Depth= 1.14"
Routed to Pond CI-C4 : CURB INLET C4

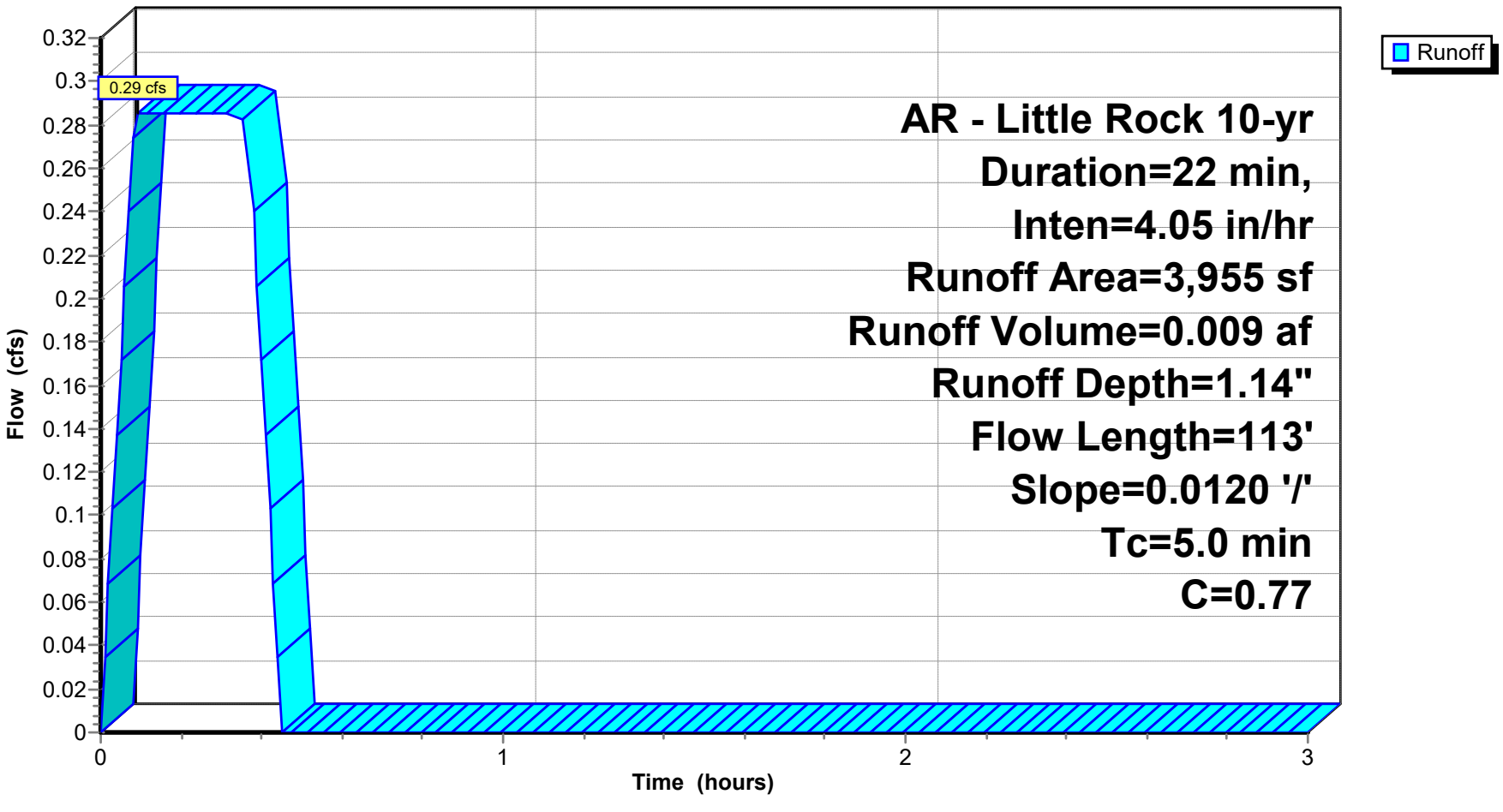
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 10-yr Duration=22 min, Inten=4.05 in/hr

Area (sf)	C	Description
959	0.30	Sandy Soil 2-7% per manual
2,996	0.92	Paved Areas
3,955	0.77	Weighted Average
3,955		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.4	113	0.0120	1.32		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
3.6					**Direct Entry, Minimum Adjustment**
5.0	113	Total			

Subcatchment DB-B10: Drainage Basin B10

Hydrograph



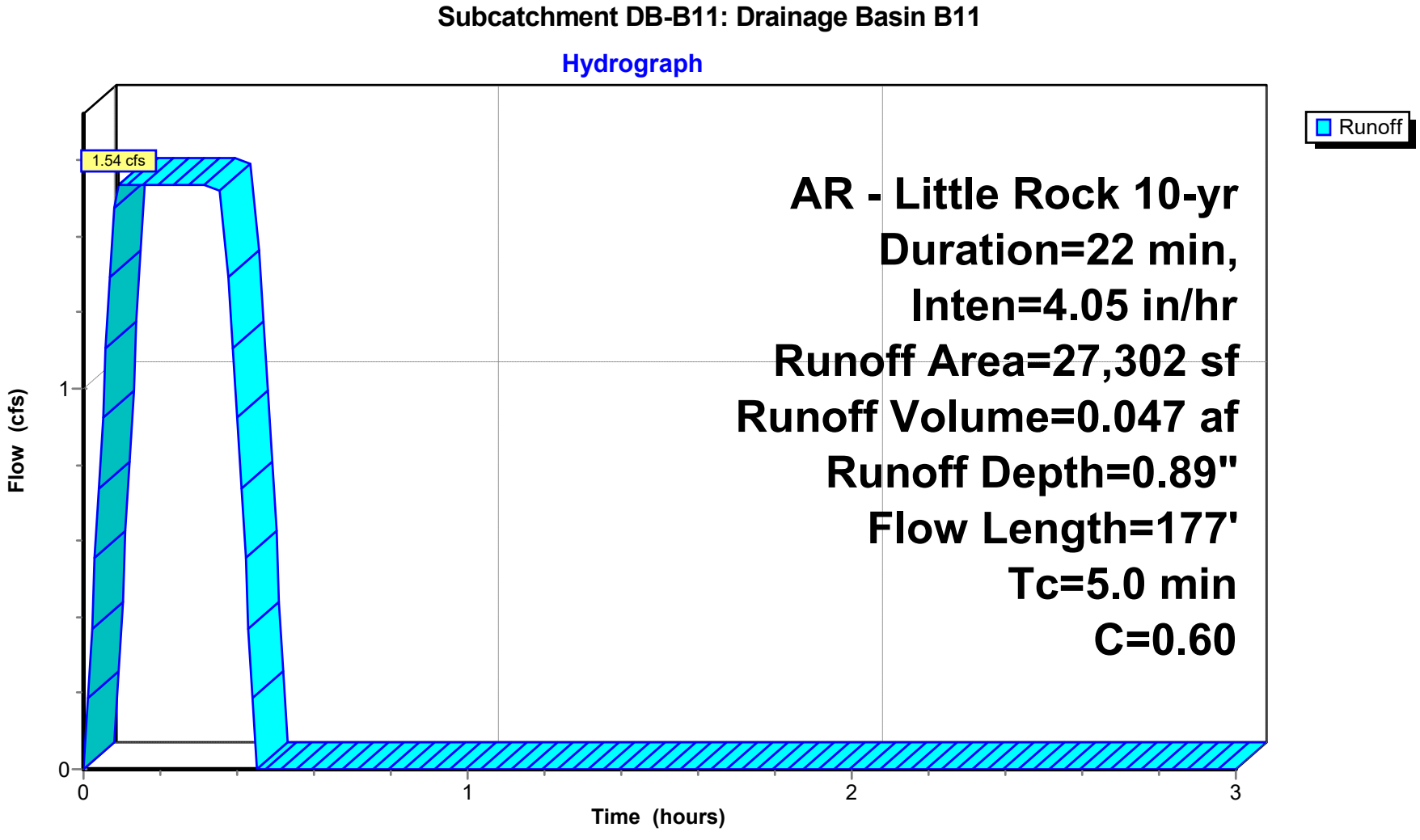
Summary for Subcatchment DB-B11: Drainage Basin B11

Runoff = 1.54 cfs @ 0.09 hrs, Volume= 0.047 af, Depth= 0.89"
Routed to Pond CI-D1 : CURB INLET D1

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 10-yr Duration=22 min, Inten=4.05 in/hr

Area (sf)	C	Description
15,547	0.35	Sandy Soil 2-7% per manual
11,755	0.92	Paved Areas
27,302	0.60	Weighted Average
27,302		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.2	65	0.3300	4.44		**Sheet Flow, Roof** Smooth surfaces n= 0.011 P2= 4.20"
0.2	69	0.1750	6.27		**Shallow Concentrated Flow, Greenspace** Grassed Waterway Kv= 15.0 fps
0.2	43	0.0500	4.54		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
4.4					**Direct Entry, Minimum Adjustment**
5.0	177	Total			



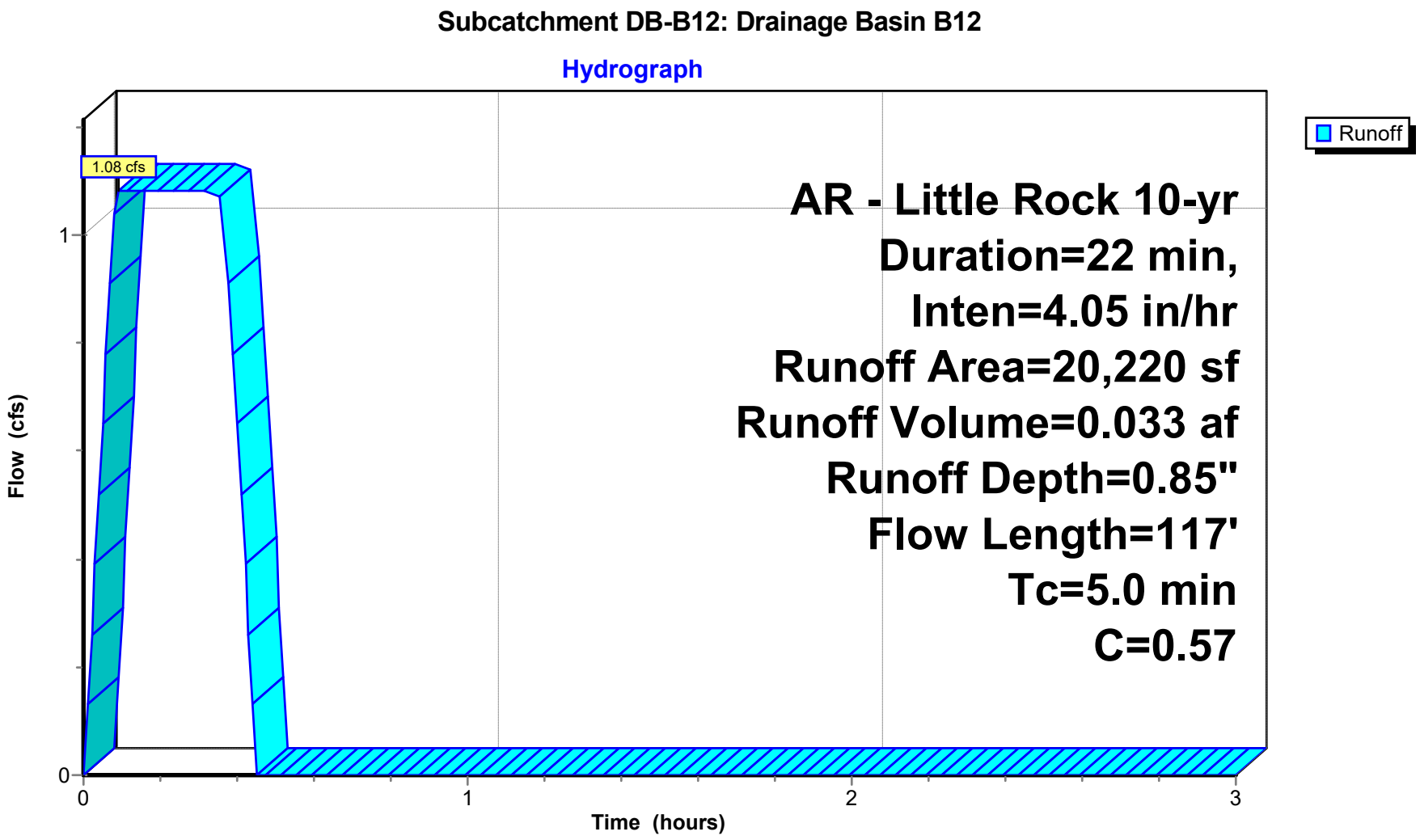
Summary for Subcatchment DB-B12: Drainage Basin B12

Runoff = 1.08 cfs @ 0.09 hrs, Volume= 0.033 af, Depth= 0.85"
Routed to Pond CI-C5 : CURB INLET C5

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 10-yr Duration=22 min, Inten=4.05 in/hr

Area (sf)	C	Description
11,502	0.30	Sandy Soil 2-7% per manual
8,718	0.92	Paved Areas
20,220	0.57	Weighted Average
20,220		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.0	26	0.0500	0.21		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
1.5	38	0.2360	0.43		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
1.1	28	0.2390	0.41		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
0.4	25	0.0180	1.15		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
5.0	117	Total			



Summary for Subcatchment DB-B13: DRAINAGE BASIN B13

Runoff = 5.05 cfs @ 0.37 hrs, Volume= 0.154 af, Depth= 0.20"
Routed to Link POST-DEV : Post-Development

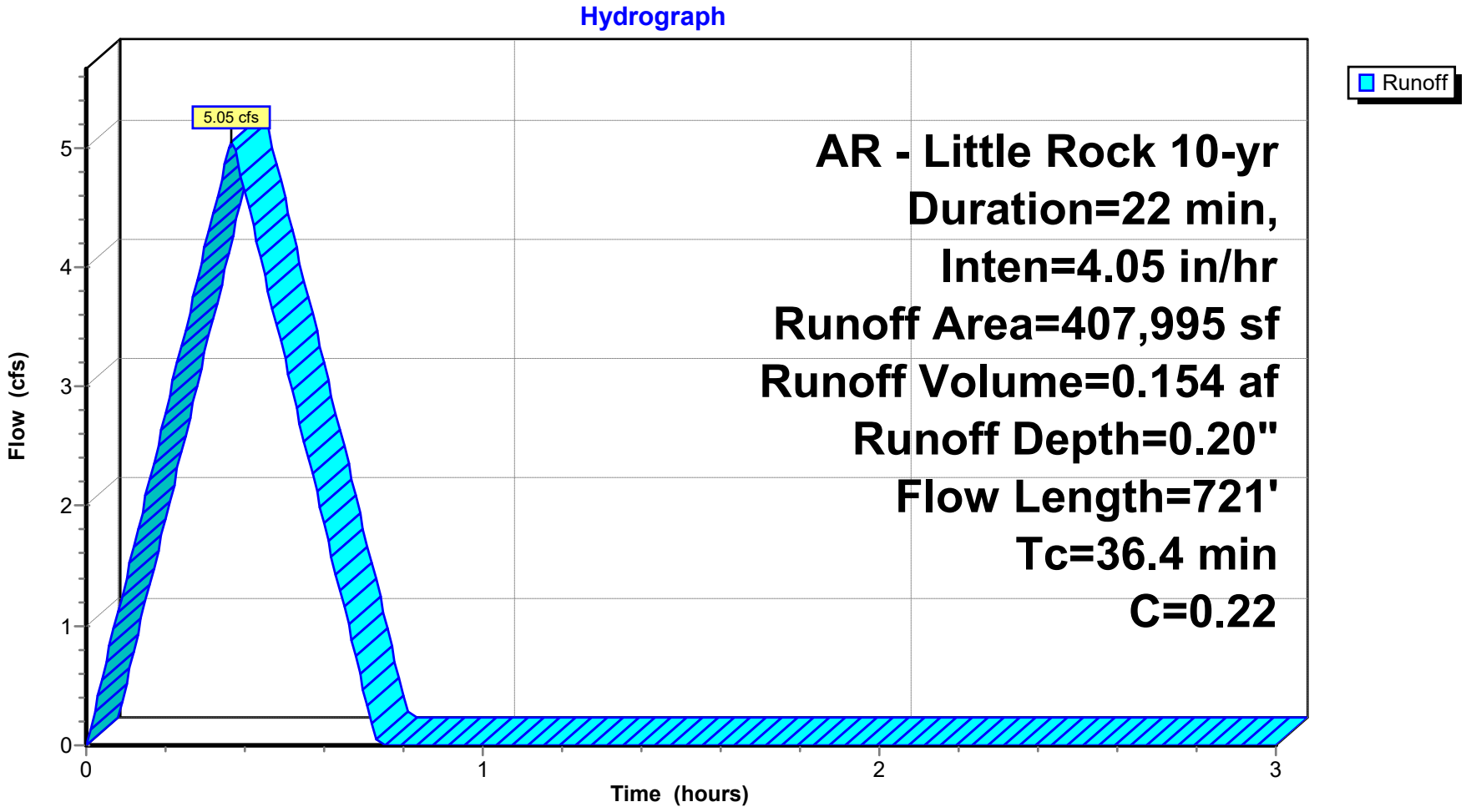
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 10-yr Duration=22 min, Inten=4.05 in/hr

Area (sf)	C	Description
407,995	0.22	Sandy Soil 2-7% Per Manual
407,995		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.5	67	0.6600	0.73		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
1.2	46	0.5900	0.65		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
3.2	147	0.5100	0.77		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
1.8	63	0.3800	0.58		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
8.5	70	0.0100	0.14		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
4.8	163	0.2200	0.56		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
2.4	65	0.2000	0.45		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
6.3	48	0.0100	0.13		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
6.7	52	0.0100	0.13		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
36.4	721	Total			

Subcatchment DB-B13: DRAINAGE BASIN B13

Hydrograph



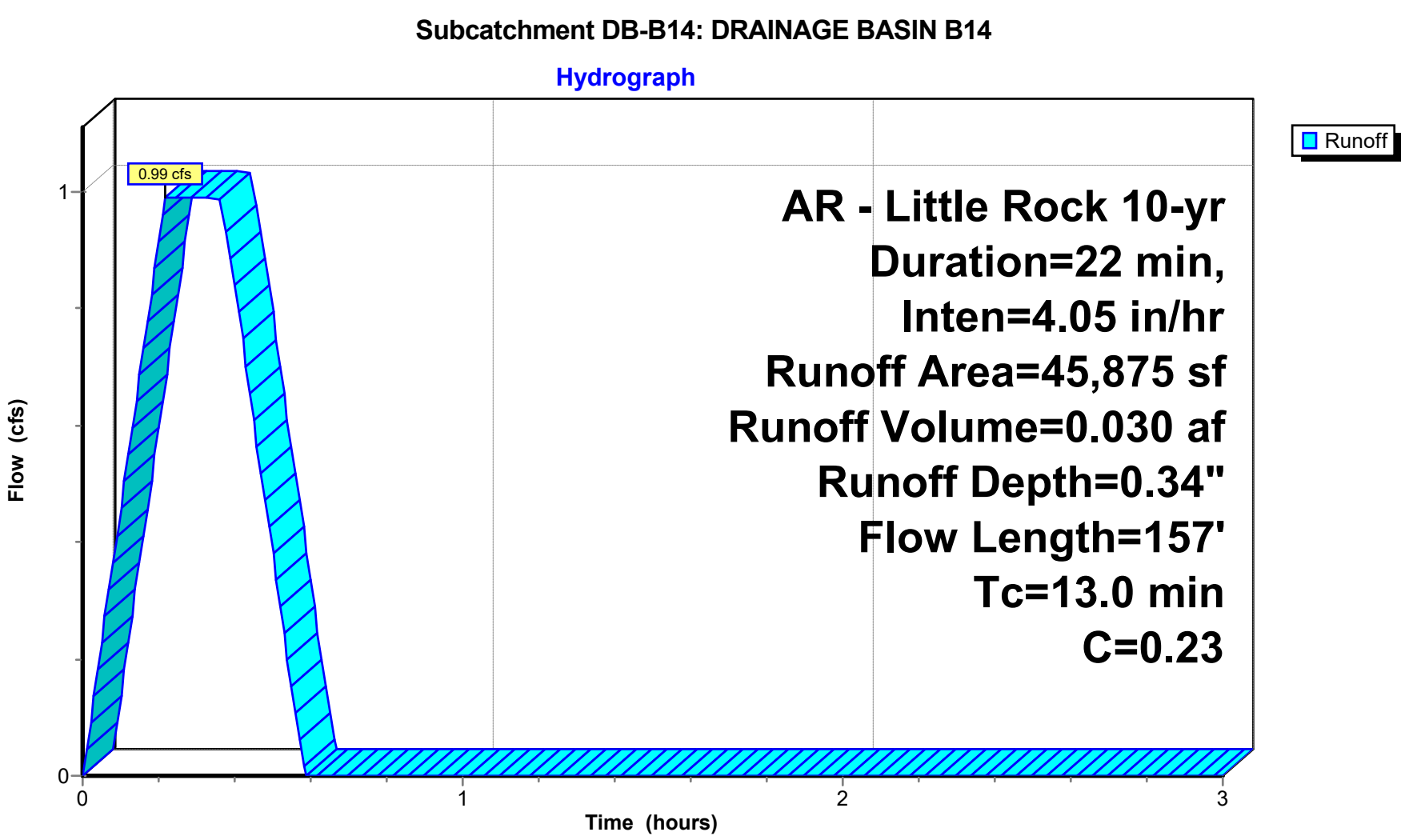
Summary for Subcatchment DB-B14: DRAINAGE BASIN B14

Runoff = 0.99 cfs @ 0.22 hrs, Volume= 0.030 af, Depth= 0.34"
Routed to Link POST-DEV : Post-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 10-yr Duration=22 min, Inten=4.05 in/hr

Area (sf)	C	Description
45,016	0.22	Sandy Soil 2-7% Per Manual
859	0.92	Paved Areas
45,875	0.23	Weighted Average
45,875		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.5	15	0.0100	0.10		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
5.2	78	0.0420	0.25		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
2.8	38	0.0480	0.23		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
2.5	26	0.0280	0.17		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
13.0	157	Total			



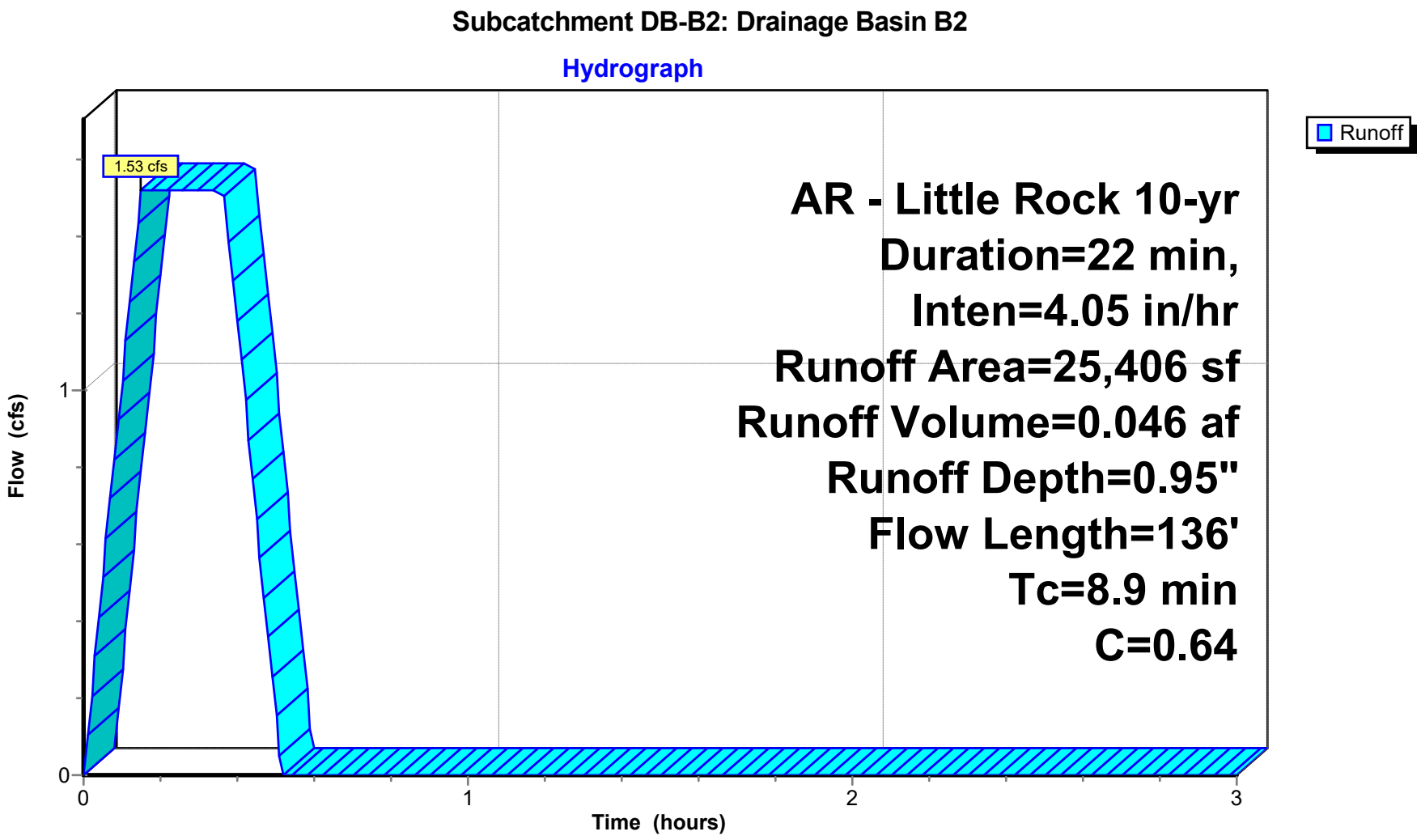
Summary for Subcatchment DB-B2: Drainage Basin B2

Runoff = 1.53 cfs @ 0.15 hrs, Volume= 0.046 af, Depth= 0.95"
Routed to Pond CI-A2 : CURB INLET A2

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 10-yr Duration=22 min, Inten=4.05 in/hr

Area (sf)	C	Description
11,388	0.30	Sandy Soil 2-7% per manual
14,018	0.92	Paved Areas
25,406	0.64	Weighted Average
25,406		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	57	0.0100	0.13		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
0.8	19	0.2480	0.38		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
0.2	14	0.0150	0.95		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.3	34	0.0600	1.97		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.2	12	0.0350	1.29		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.2					**Direct Entry, Minimum Adjustment**
8.9	136	Total			



Summary for Subcatchment DB-B3: Drainage Basin B3

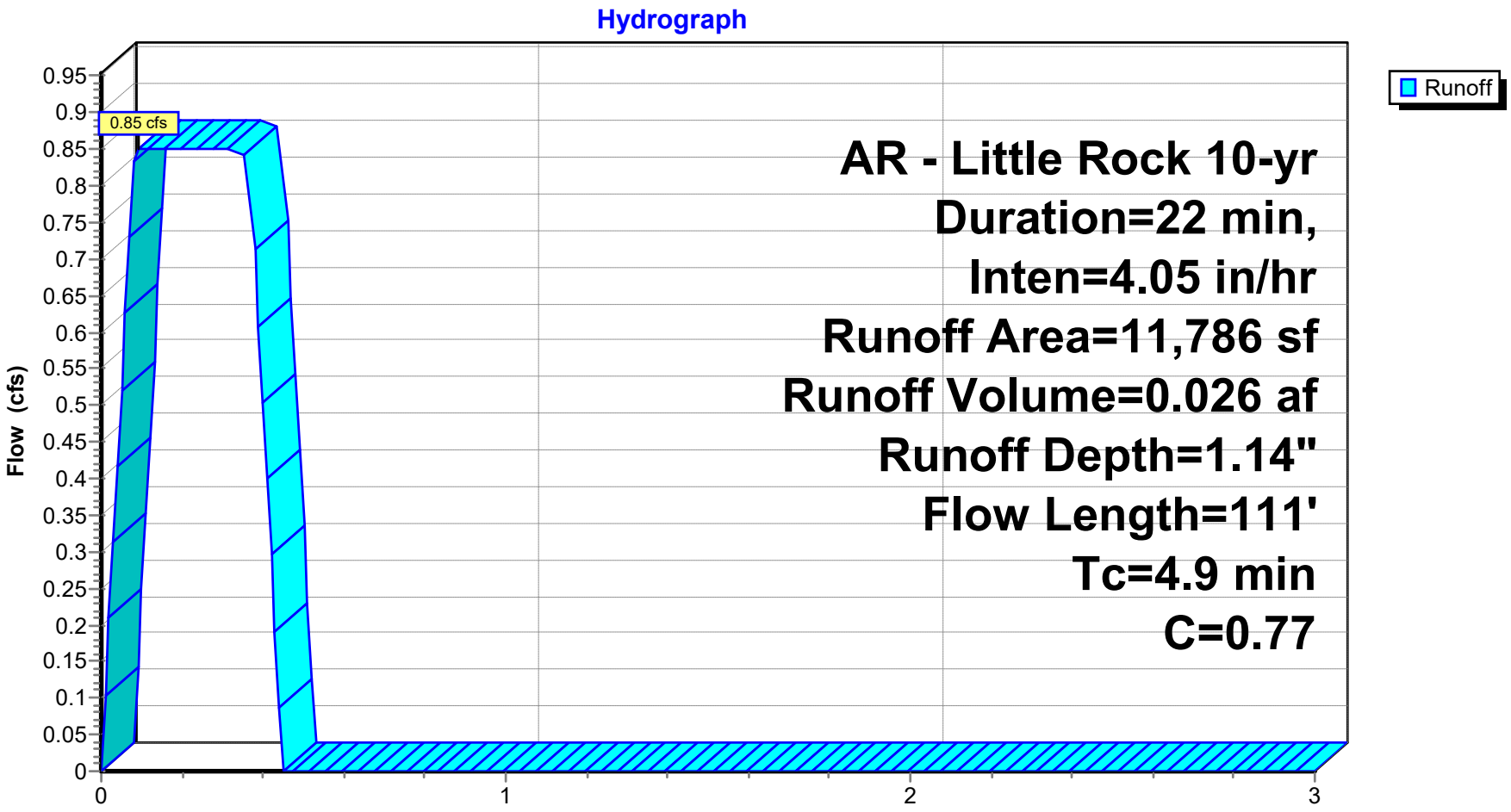
Runoff = 0.85 cfs @ 0.09 hrs, Volume= 0.026 af, Depth= 1.14"
Routed to Pond CI-A3 : CURB INLET A3

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 10-yr Duration=22 min, Inten=4.05 in/hr

Area (sf)	C	Description
2,920	0.30	Sandy Soil 2-7% per manual
8,866	0.92	Paved Areas
11,786	0.77	Weighted Average
11,786		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	19	0.2500	0.38		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
0.2	16	0.0290	1.27		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.6	38	0.0100	0.98		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.3	38	0.0100	2.03		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
3.0					**Direct Entry, Minimum Adjustment**
4.9	111	Total			

Subcatchment DB-B3: Drainage Basin B3



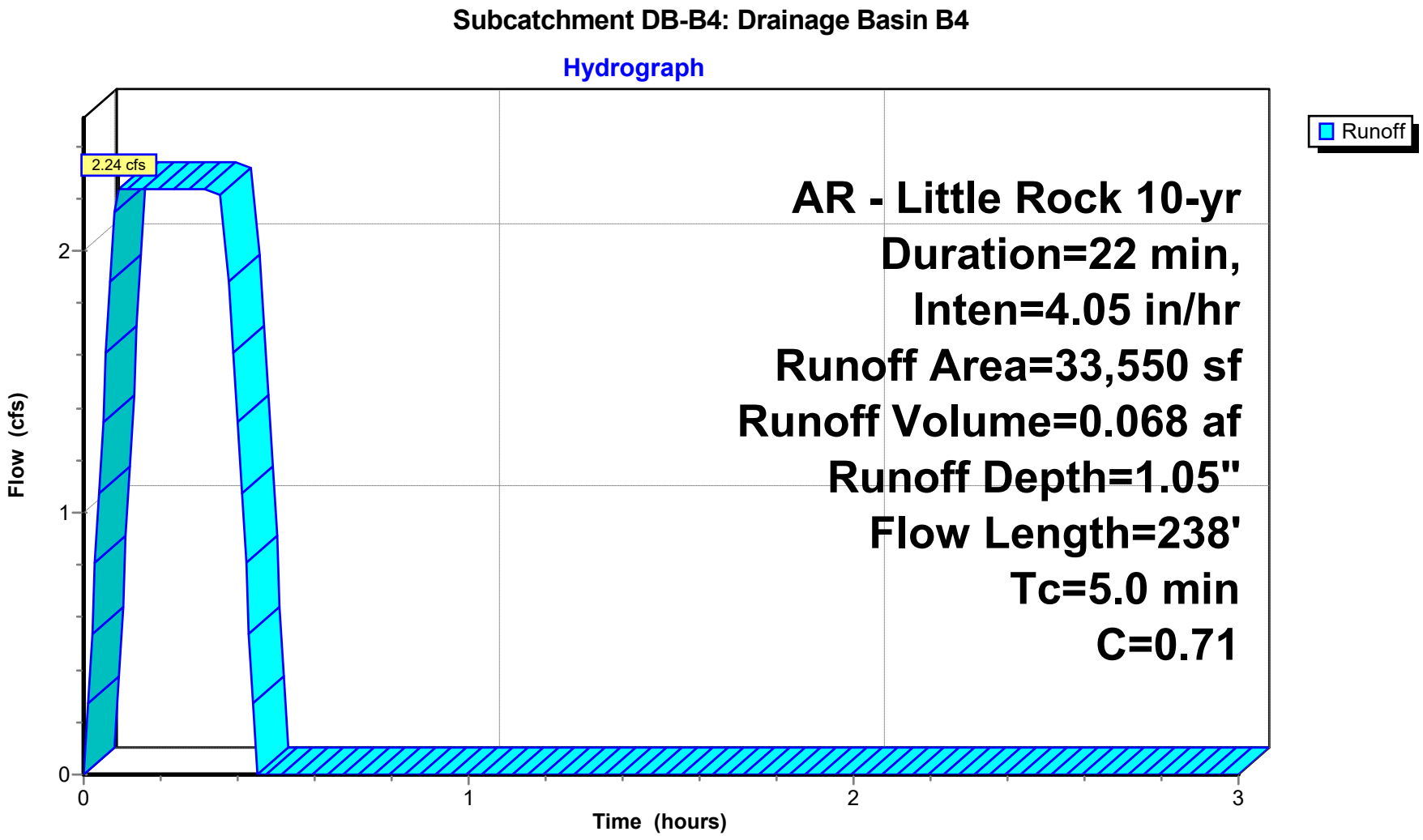
Summary for Subcatchment DB-B4: Drainage Basin B4

Runoff = 2.24 cfs @ 0.09 hrs, Volume= 0.068 af, Depth= 1.05"
Routed to Pond CI-A4 : CURB INLET A4

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 10-yr Duration=22 min, Inten=4.05 in/hr

Area (sf)	C	Description
11,568	0.30	Sandy Soil 2-7% per manual
21,982	0.92	Paved Areas
33,550	0.71	Weighted Average
33,550		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.4	48	0.0530	2.01		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.3	25	0.0310	1.42		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.6	14	0.0020	0.42		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.9	66	0.0130	1.22		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.4	59	0.0120	2.22		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
0.5	19	0.0010	0.64		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
0.0	7	0.0700	5.37		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
1.9					**Direct Entry, Minimum Adjustment**
5.0	238	Total			



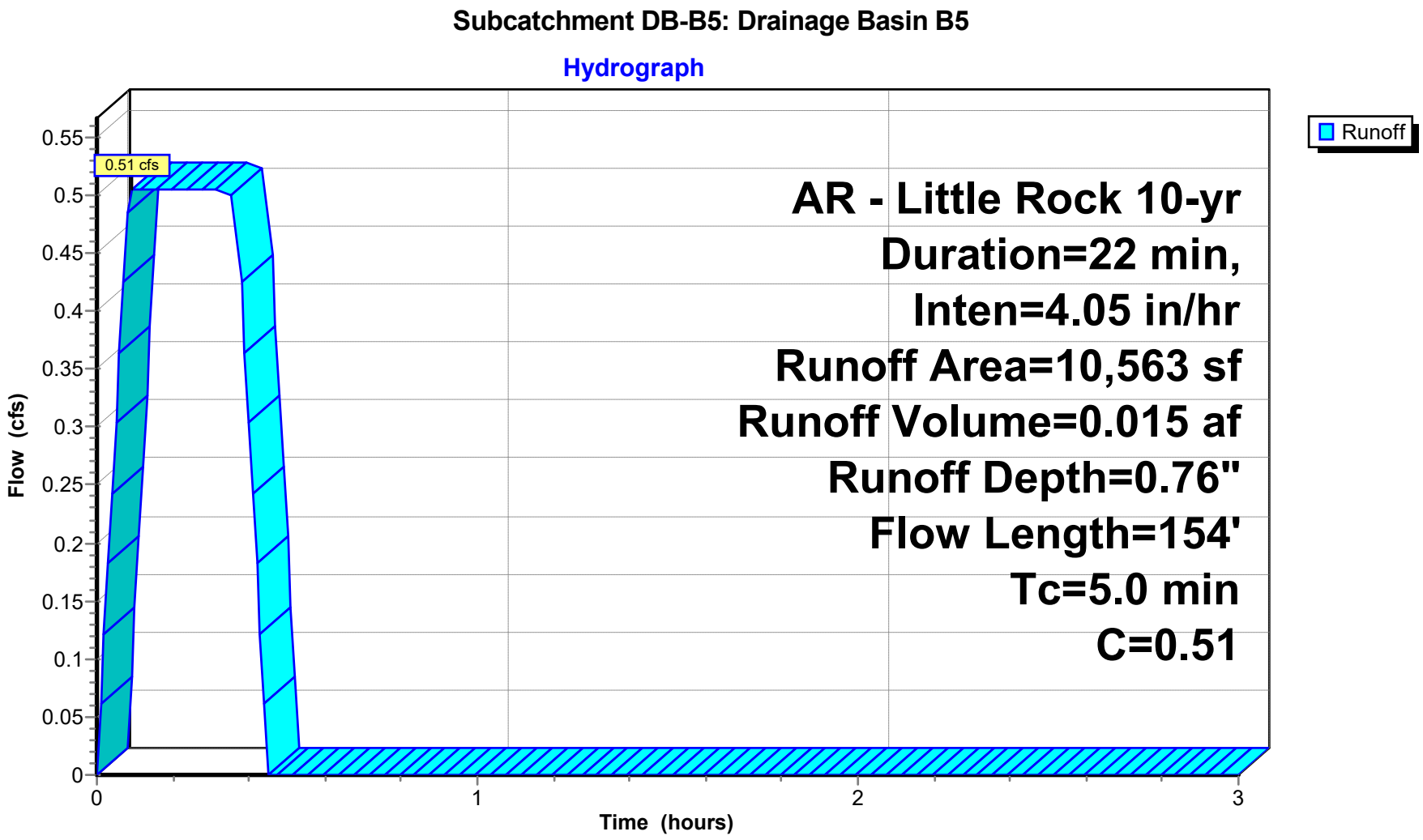
Summary for Subcatchment DB-B5: Drainage Basin B5

Runoff = 0.51 cfs @ 0.09 hrs, Volume= 0.015 af, Depth= 0.76"
Routed to Pond CI-A5 : CURB INLET A5

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 10-yr Duration=22 min, Inten=4.05 in/hr

Area (sf)	C	Description
6,980	0.30	Sandy Soil 2-7% per manual
3,583	0.92	Paved Areas
10,563	0.51	Weighted Average
10,563		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.2	19	0.0920	0.26		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
1.9	39	0.1260	0.34		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
0.5	66	0.0540	2.16		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.1	30	0.0500	4.54		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
1.3					**Direct Entry, Minimum Adjustment**
5.0	154	Total			



Summary for Subcatchment DB-B6: Drainage Basin B6

Runoff = 0.16 cfs @ 0.09 hrs, Volume= 0.005 af, Depth= 1.37"
Routed to Pond AI-B1 : AREA INLET B1

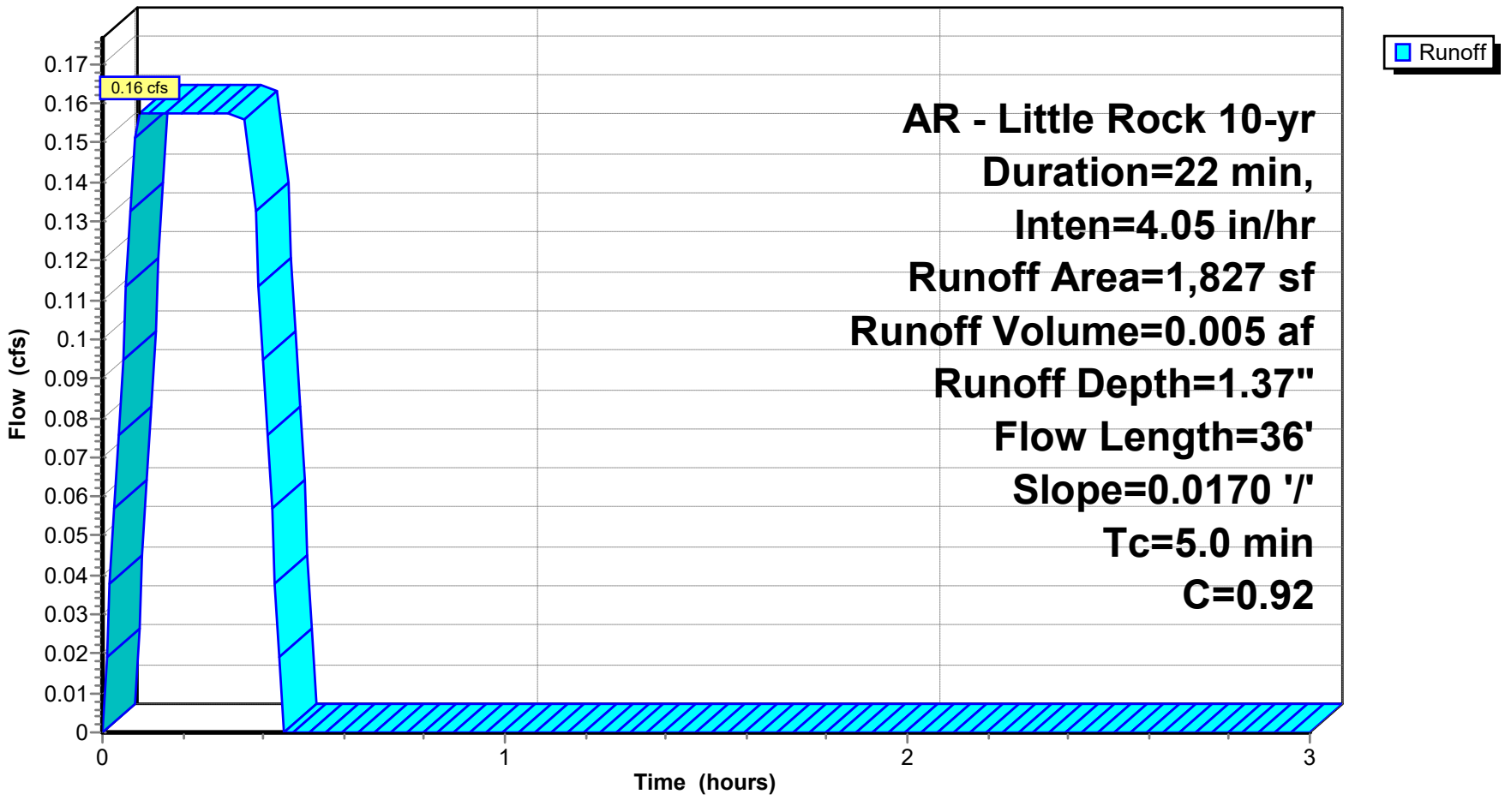
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 10-yr Duration=22 min, Inten=4.05 in/hr

Area (sf)	C	Description
0	0.30	Sandy Soil 2-7% per manual
1,827	0.92	Paved Areas
1,827	0.92	Weighted Average
1,827		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.5	36	0.0170	1.20		**Sheet Flow, Concrete** Smooth surfaces n= 0.011 P2= 4.20"
4.5					**Direct Entry, Minimum Adjustment**
5.0	36	Total			

Subcatchment DB-B6: Drainage Basin B6

Hydrograph



Summary for Subcatchment DB-B7: Drainage Basin B7

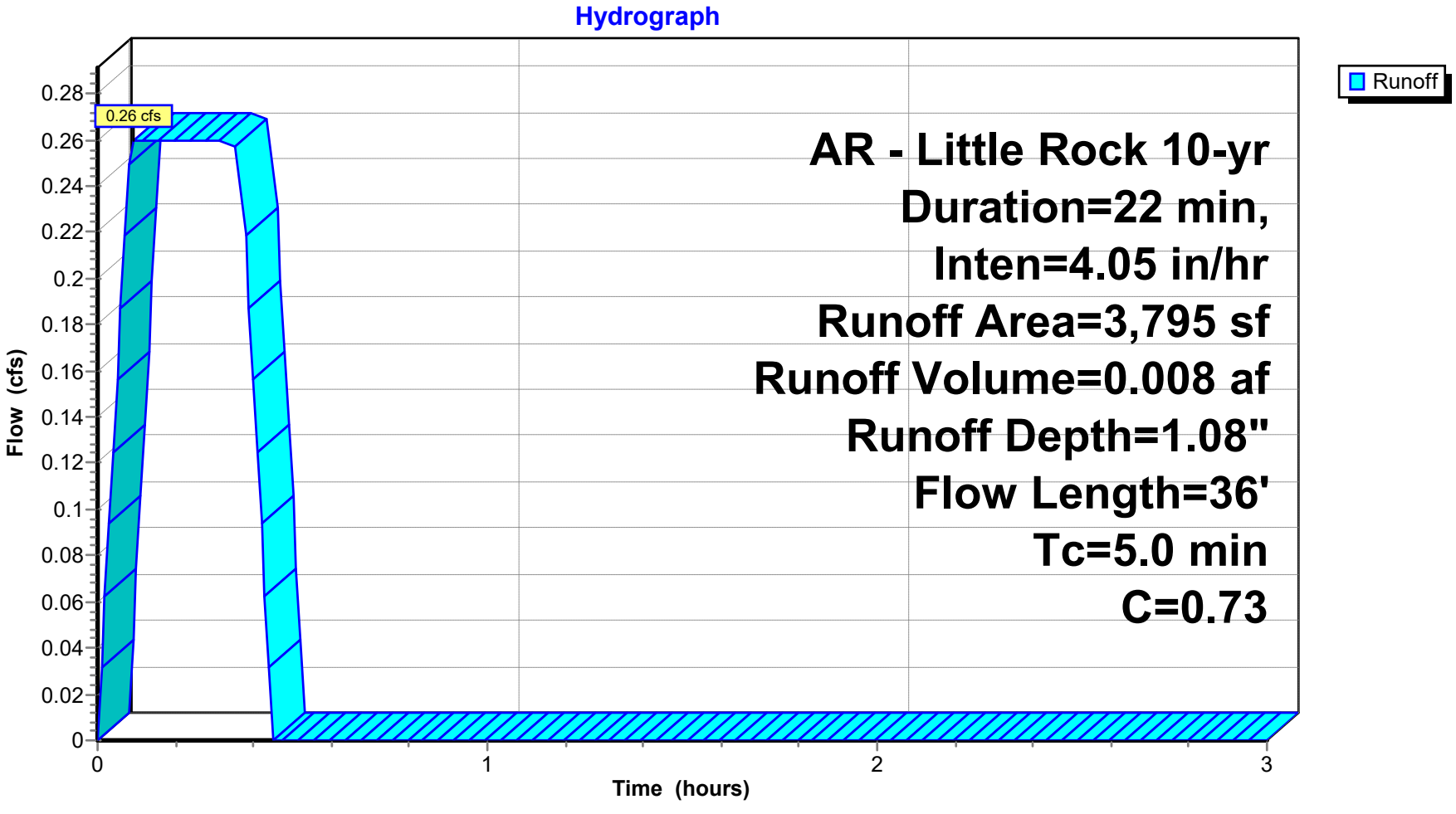
Runoff = 0.26 cfs @ 0.09 hrs, Volume= 0.008 af, Depth= 1.08"
Routed to Pond AI-B2 : AREA INLET B2

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 10-yr Duration=22 min, Inten=4.05 in/hr

Area (sf)	C	Description
1,158	0.30	Sandy Soil 2-7% per manual
2,637	0.92	Paved Areas
3,795	0.73	Weighted Average
3,795		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	24	0.0020	0.47		**Sheet Flow, Concrete** Smooth surfaces n= 0.011 P2= 4.20"
0.2	12	0.0160	0.94		**Sheet Flow, Concrete** Smooth surfaces n= 0.011 P2= 4.20"
4.0					**Direct Entry, Minimum Adjustment**
5.0	36	Total			

Subcatchment DB-B7: Drainage Basin B7



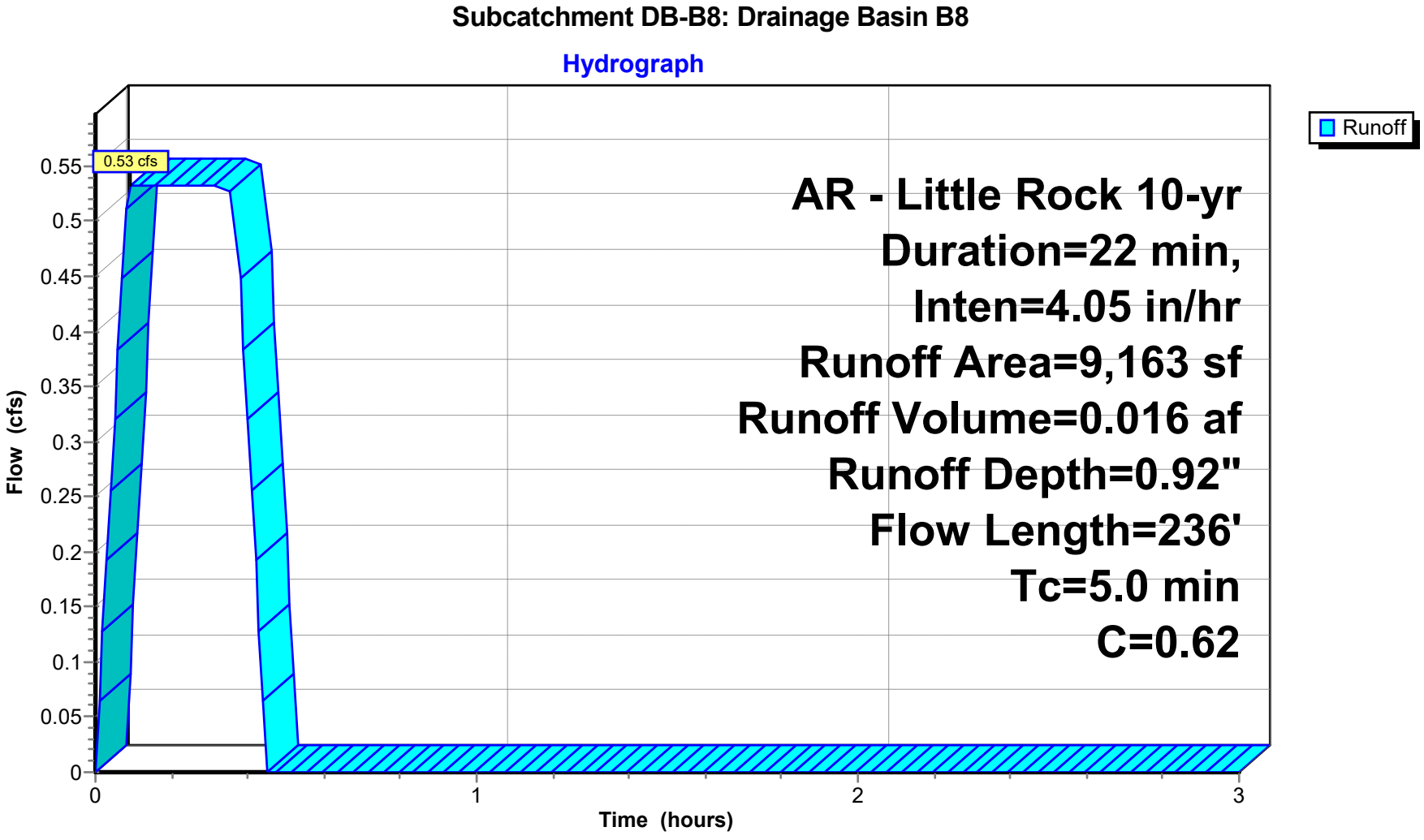
Summary for Subcatchment DB-B8: Drainage Basin B8

Runoff = 0.53 cfs @ 0.09 hrs, Volume= 0.016 af, Depth= 0.92"
Routed to Pond CI-C1 : CURB INLET C1

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 10-yr Duration=22 min, Inten=4.05 in/hr

Area (sf)	C	Description
4,431	0.30	Sadny Soil 2-7% per manual
4,732	0.92	Paved Areas
9,163	0.62	Weighted Average
9,163		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.4	33	0.0210	1.29		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.6	91	0.0620	2.43		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.8	112	0.0490	2.31		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
3.2					**Direct Entry, Minimum Adjustment**
5.0	236	Total			



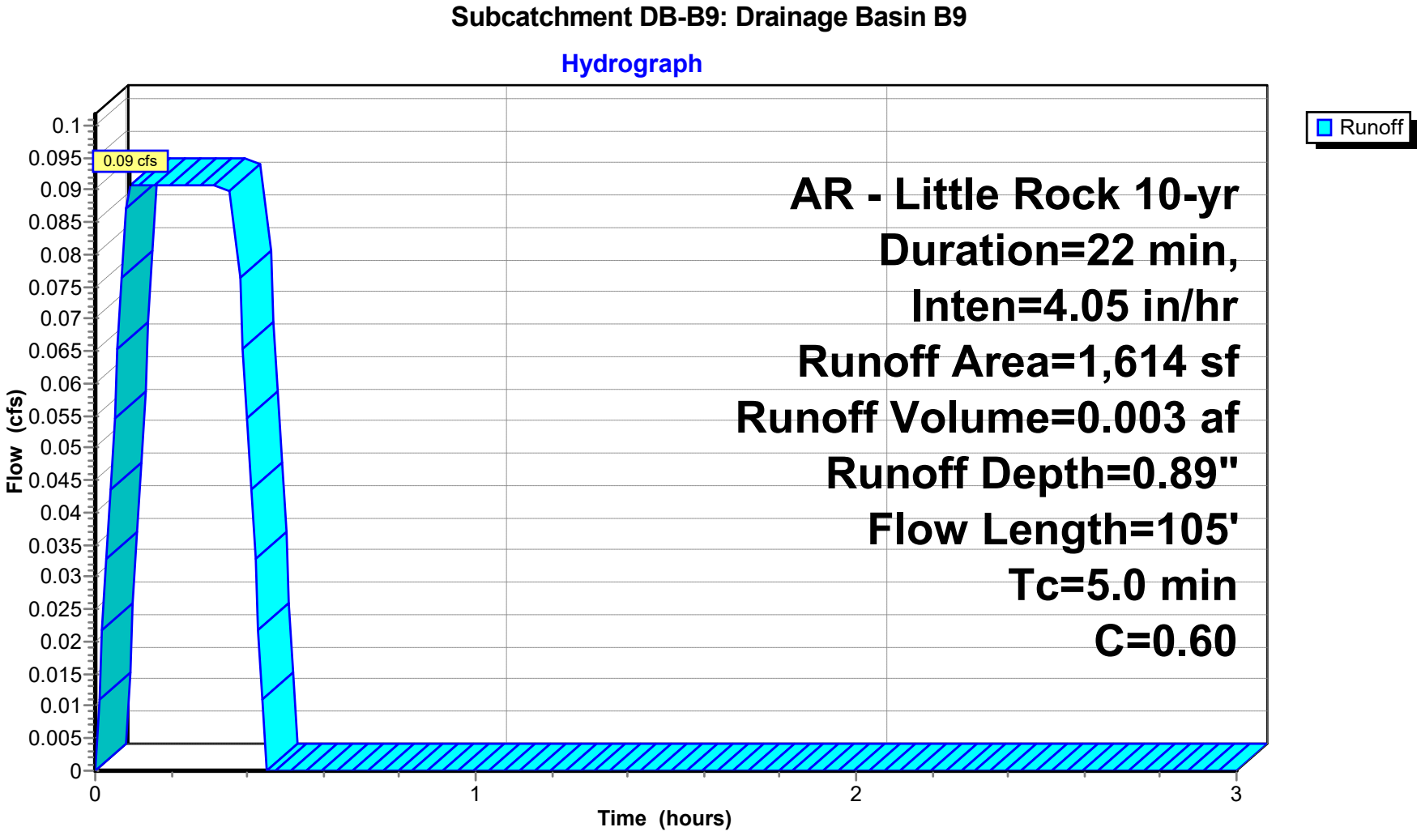
Summary for Subcatchment DB-B9: Drainage Basin B9

Runoff = 0.09 cfs @ 0.09 hrs, Volume= 0.003 af, Depth= 0.89"
Routed to Pond CI-C2 : CURB INLET C2

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 10-yr Duration=22 min, Inten=4.05 in/hr

Area (sf)	C	Description
826	0.30	Sandy Soil 2-7% per manual
788	0.92	Paved Areas
1,614	0.60	Weighted Average
1,614		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.0	62	0.0100	1.09		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.0	8	0.0230	3.08		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
0.2	35	0.0140	2.40		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
3.8					**Direct Entry, Minimum Adjustment**
5.0	105	Total			



Summary for Pond AI-B1: AREA INLET B1

Inflow Area = 0.042 ac, 0.00% Impervious, Inflow Depth = 1.37" for 10-yr event
Inflow = 0.16 cfs @ 0.09 hrs, Volume= 0.005 af
Outflow = 0.16 cfs @ 0.10 hrs, Volume= 0.005 af, Atten= 0%, Lag= 0.6 min
Primary = 0.16 cfs @ 0.10 hrs, Volume= 0.005 af
Routed to Pond AI-B2 : AREA INLET B2

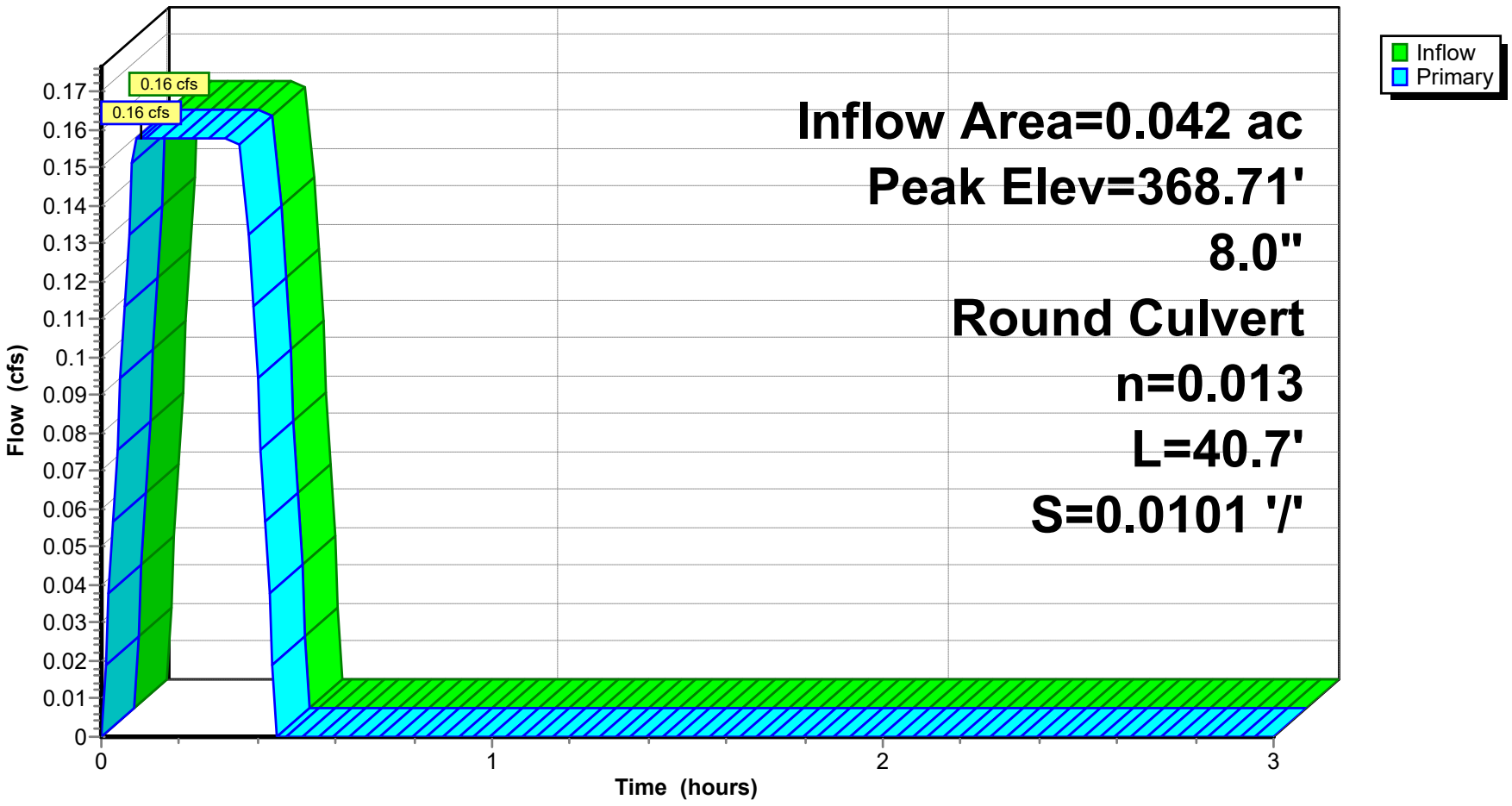
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 368.71' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	368.49'	**8.0" Round HDPE 8"** L= 40.7' Ke= 0.100 Inlet / Outlet Invert= 368.49' / 368.08' S= 0.0101 '/' Cc= 0.900 n= 0.013, Flow Area= 0.35 sf

Primary OutFlow Max=0.16 cfs @ 0.10 hrs HW=368.71' (Free Discharge)
1=HDPE 8" (Barrel Controls 0.16 cfs @ 2.32 fps)

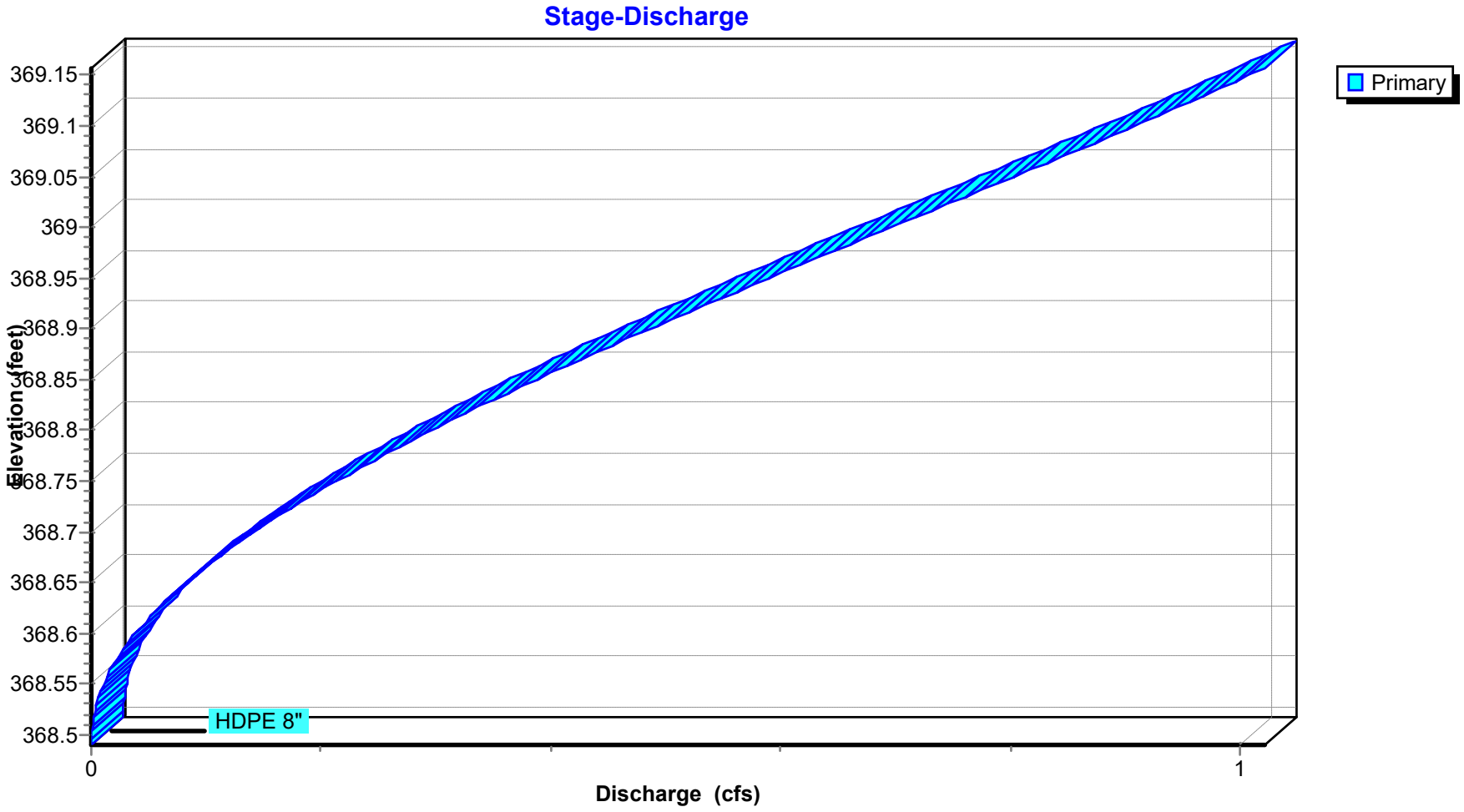
Pond AI-B1: AREA INLET B1

Hydrograph



Pond AI-B1: AREA INLET B1

Stage-Discharge



Stage-Area-Storage for Pond AI-B1: AREA INLET B1

Elevation (feet)	Storage (acre-feet)
368.49	**0.000**
368.50	0.000
368.51	0.000
368.52	0.000
368.53	0.000
368.54	0.000
368.55	0.000
368.56	0.000
368.57	0.000
368.58	0.000
368.59	0.000
368.60	0.000
368.61	0.000
368.62	0.000
368.63	0.000
368.64	0.000
368.65	0.000
368.66	0.000
368.67	0.000
368.68	0.000
368.69	0.000
368.70	0.000
368.71	0.000
368.72	0.000
368.73	0.000
368.74	0.000
368.75	0.000
368.76	0.000
368.77	0.000
368.78	0.000
368.79	0.000
368.80	0.000
368.81	0.000
368.82	0.000
368.83	0.000
368.84	0.000
368.85	0.000
368.86	0.000
368.87	0.000
368.88	0.000
368.89	0.000
368.90	0.000
368.91	0.000
368.92	0.000
368.93	0.000
368.94	0.000
368.95	0.000
368.96	0.000
368.97	0.000
368.98	0.000
368.99	0.000
369.00	0.000
369.01	0.000
369.02	0.000
369.03	0.000
369.04	0.000
369.05	0.000
369.06	0.000
369.07	0.000
369.08	0.000
369.09	0.000
369.10	0.000
369.11	0.000
369.12	0.000
369.13	0.000
369.14	0.000
369.15	0.000
369.16	0.000

Summary for Pond AI-B2: AREA INLET B2

Inflow Area = 0.129 ac, 0.00% Impervious, Inflow Depth = 1.18" for 10-yr event
Inflow = 0.42 cfs @ 0.10 hrs, Volume= 0.013 af
Outflow = 0.42 cfs @ 0.09 hrs, Volume= 0.013 af, Atten= 0%, Lag= 0.0 min
Primary = 0.42 cfs @ 0.09 hrs, Volume= 0.013 af
Routed to Pond CI-A2 : CURB INLET A2

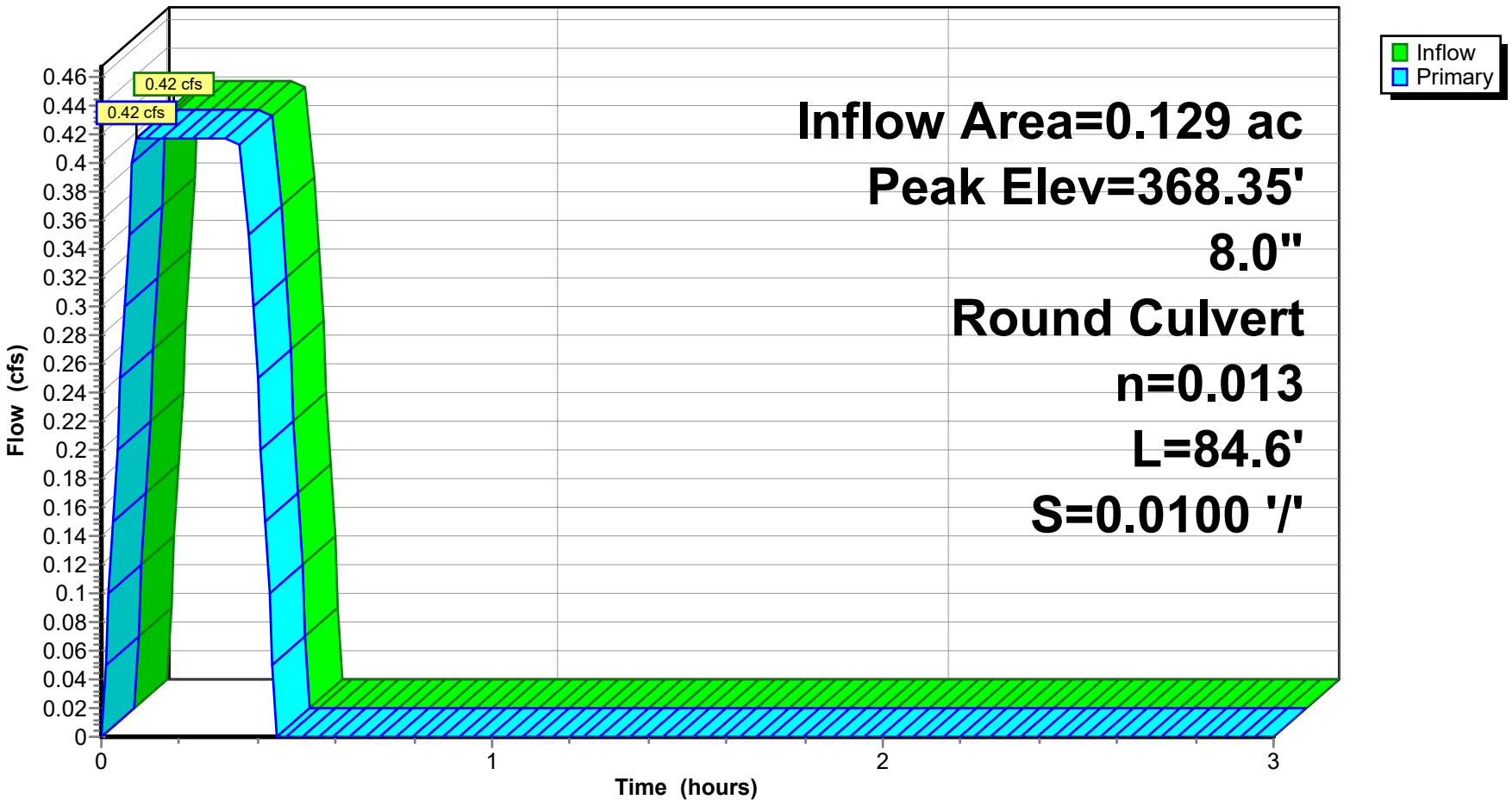
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 368.35' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	367.98'	**8.0" Round HDPE** L= 84.6' Ke= 0.100 Inlet / Outlet Invert= 367.98' / 367.13' S= 0.0100 '/' Cc= 0.900 n= 0.013, Flow Area= 0.35 sf

Primary OutFlow Max=0.42 cfs @ 0.09 hrs HW=368.35' (Free Discharge)
1=HDPE (Barrel Controls 0.42 cfs @ 3.05 fps)

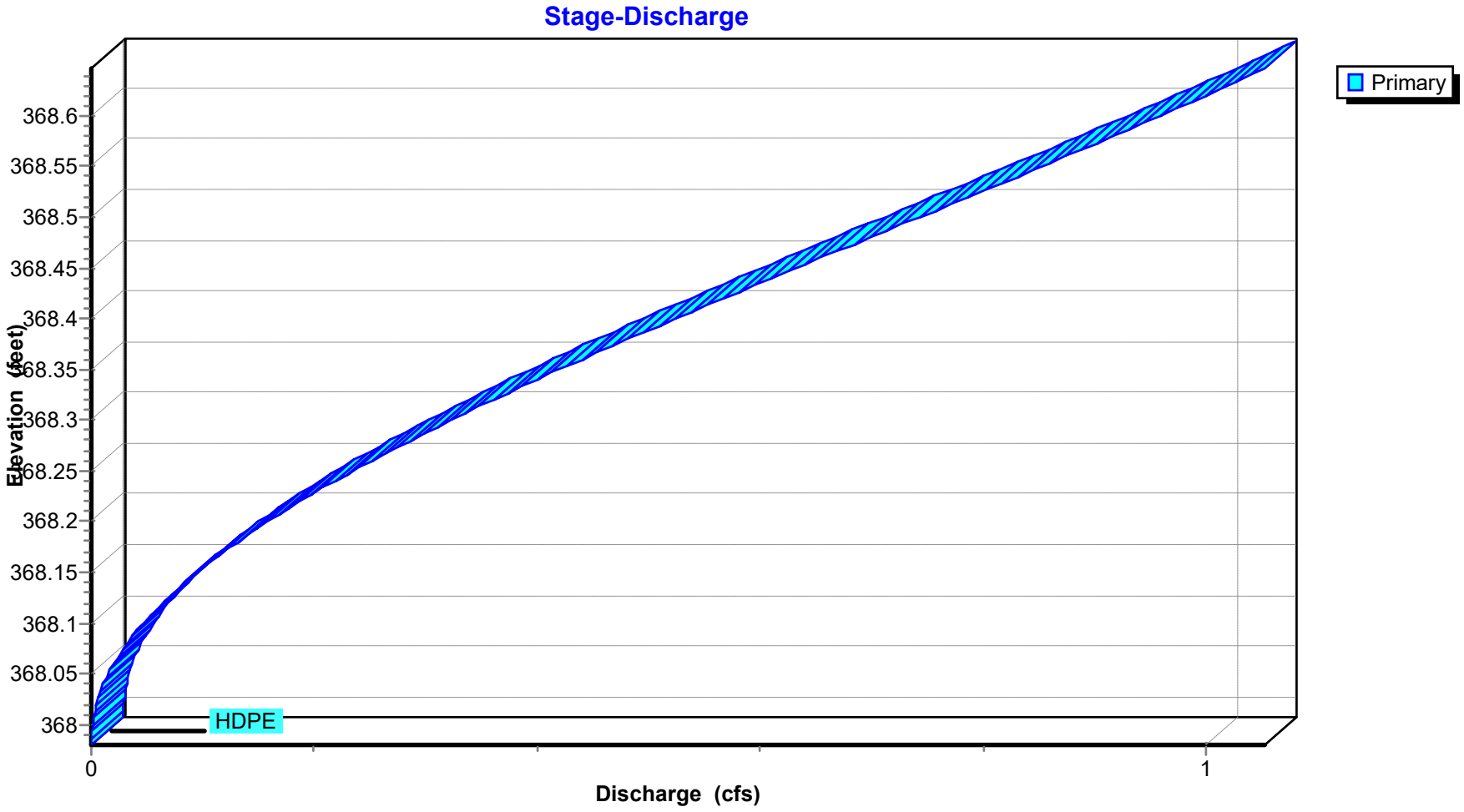
Pond AI-B2: AREA INLET B2

Hydrograph



Pond AI-B2: AREA INLET B2

Stage-Discharge



Stage-Area-Storage for Pond AI-B2: AREA INLET B2

Elevation (feet)	Storage (acre-feet)
367.98	**0.000**
367.99	0.000
368.00	0.000
368.01	0.000
368.02	0.000
368.03	0.000
368.04	0.000
368.05	0.000
368.06	0.000
368.07	0.000
368.08	0.000
368.09	0.000
368.10	0.000
368.11	0.000
368.12	0.000
368.13	0.000
368.14	0.000
368.15	0.000
368.16	0.000
368.17	0.000
368.18	0.000
368.19	0.000
368.20	0.000
368.21	0.000
368.22	0.000
368.23	0.000
368.24	0.000
368.25	0.000
368.26	0.000
368.27	0.000
368.28	0.000
368.29	0.000
368.30	0.000
368.31	0.000
368.32	0.000
368.33	0.000
368.34	0.000
368.35	0.000
368.36	0.000
368.37	0.000
368.38	0.000
368.39	0.000
368.40	0.000
368.41	0.000
368.42	0.000
368.43	0.000
368.44	0.000
368.45	0.000
368.46	0.000
368.47	0.000
368.48	0.000
368.49	0.000
368.50	0.000
368.51	0.000
368.52	0.000
368.53	0.000
368.54	0.000
368.55	0.000
368.56	0.000
368.57	0.000
368.58	0.000
368.59	0.000
368.60	0.000
368.61	0.000
368.62	0.000
368.63	0.000
368.64	0.000
368.65	0.000

Summary for Pond CI-A1: CURB INLET A1

Inflow Area = 0.443 ac, 0.00% Impervious, Inflow Depth = 1.28" for 10-yr event
Inflow = 1.56 cfs @ 0.09 hrs, Volume= 0.047 af
Outflow = 1.56 cfs @ 0.09 hrs, Volume= 0.047 af, Atten= 0%, Lag= 0.0 min
Primary = 1.56 cfs @ 0.09 hrs, Volume= 0.047 af
Routed to Pond CI-A2 : CURB INLET A2

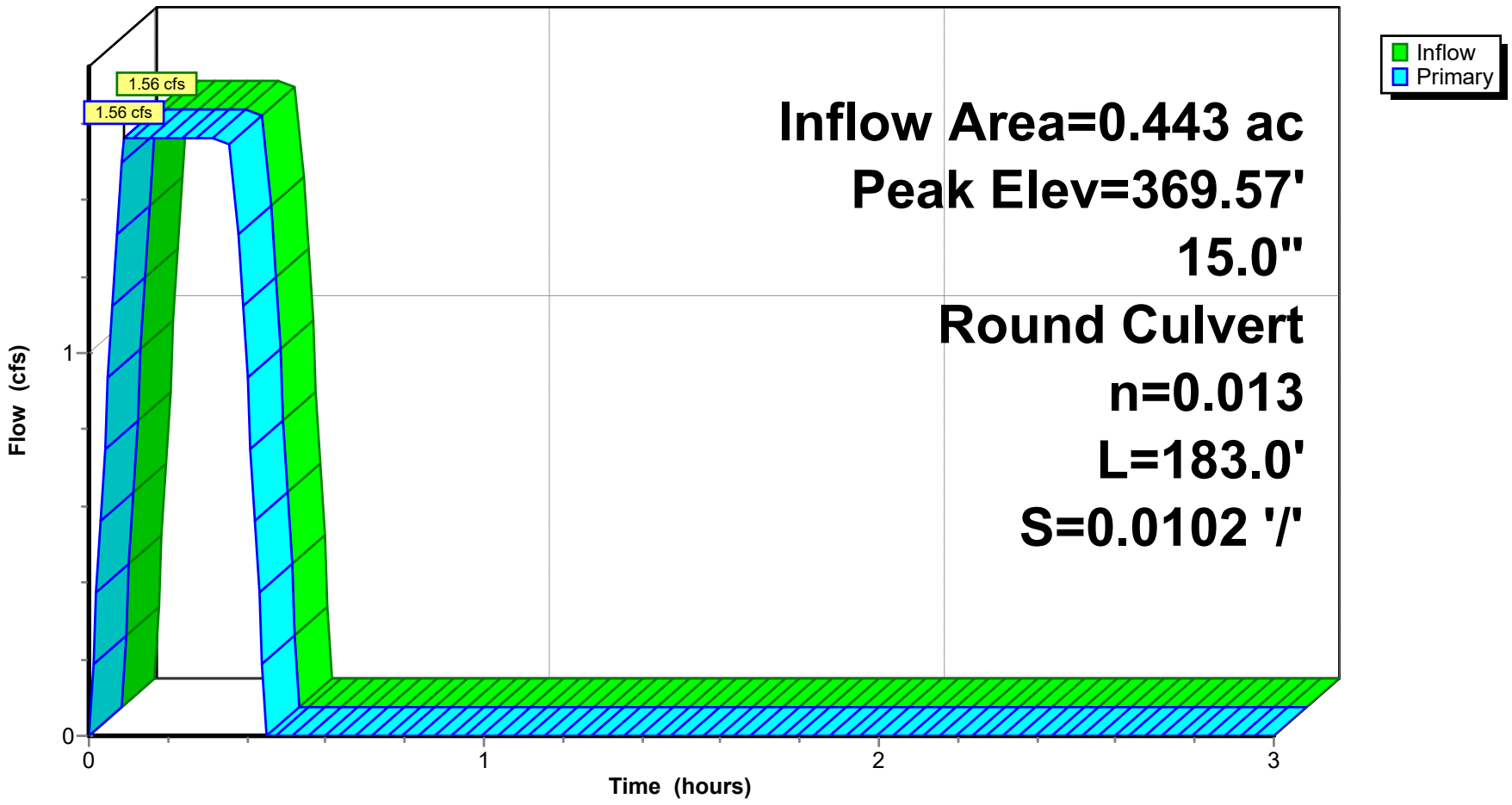
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 369.57' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	369.00'	**15.0" Round RCP_Round 15"** L= 183.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 369.00' / 367.13' S= 0.0102 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.23 sf

Primary OutFlow Max=1.56 cfs @ 0.09 hrs HW=369.57' (Free Discharge)
└**1=RCP_Round 15"** (Barrel Controls 1.56 cfs @ 4.22 fps)

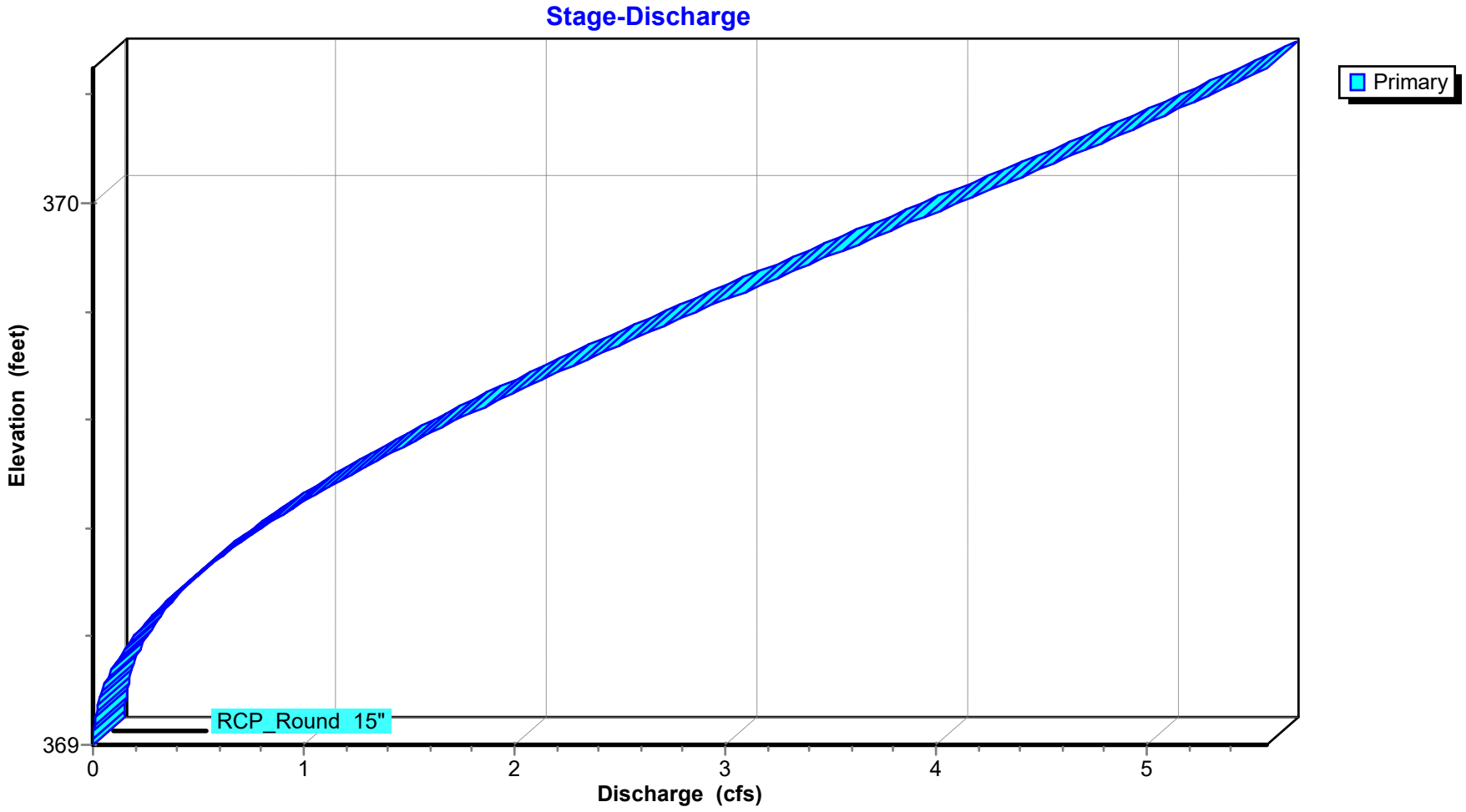
Pond CI-A1: CURB INLET A1

Hydrograph



Pond CI-A1: CURB INLET A1

Stage-Discharge



Stage-Area-Storage for Pond CI-A1: CURB INLET A1

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
369.00	**0.000**	369.92	0.000
369.01	0.000	369.93	0.000
369.02	0.000	369.94	0.000
369.03	0.000	369.95	0.000
369.04	0.000	369.96	0.000
369.05	0.000	369.97	0.000
369.06	0.000	369.98	0.000
369.07	0.000	369.99	0.000
369.08	0.000	370.00	0.000
369.09	0.000	370.01	0.000
369.10	0.000	370.02	0.000
369.11	0.000	370.03	0.000
369.12	0.000	370.04	0.000
369.13	0.000	370.05	0.000
369.14	0.000	370.06	0.000
369.15	0.000	370.07	0.000
369.16	0.000	370.08	0.000
369.17	0.000	370.09	0.000
369.18	0.000	370.10	0.000
369.19	0.000	370.11	0.000
369.20	0.000	370.12	0.000
369.21	0.000	370.13	0.000
369.22	0.000	370.14	0.000
369.23	0.000	370.15	0.000
369.24	0.000	370.16	0.000
369.25	0.000	370.17	0.000
369.26	0.000	370.18	0.000
369.27	0.000	370.19	0.000
369.28	0.000	370.20	0.000
369.29	0.000	370.21	0.000
369.30	0.000	370.22	0.000
369.31	0.000	370.23	0.000
369.32	0.000	370.24	0.000
369.33	0.000	370.25	0.000
369.34	0.000		
369.35	0.000		
369.36	0.000		
369.37	0.000		
369.38	0.000		
369.39	0.000		
369.40	0.000		
369.41	0.000		
369.42	0.000		
369.43	0.000		
369.44	0.000		
369.45	0.000		
369.46	0.000		
369.47	0.000		
369.48	0.000		
369.49	0.000		
369.50	0.000		
369.51	0.000		
369.52	0.000		
369.53	0.000		
369.54	0.000		
369.55	0.000		
369.56	0.000		
369.57	0.000		
369.58	0.000		
369.59	0.000		
369.60	0.000		
369.61	0.000		
369.62	0.000		
369.63	0.000		
369.64	0.000		
369.65	0.000		
369.66	0.000		
369.67	0.000		
369.68	0.000		
369.69	0.000		
369.70	0.000		
369.71	0.000		
369.72	0.000		
369.73	0.000		
369.74	0.000		
369.75	0.000		
369.76	0.000		
369.77	0.000		
369.78	0.000		
369.79	0.000		
369.80	0.000		
369.81	0.000		
369.82	0.000		
369.83	0.000		
369.84	0.000		
369.85	0.000		
369.86	0.000		
369.87	0.000		
369.88	0.000		
369.89	0.000		
369.90	0.000		
369.91	0.000		

Summary for Pond CI-A2: CURB INLET A2

Inflow Area = 1.156 ac, 0.00% Impervious, Inflow Depth = 1.10" for 10-yr event
Inflow = 3.50 cfs @ 0.15 hrs, Volume= 0.106 af
Outflow = 3.50 cfs @ 0.15 hrs, Volume= 0.106 af, Atten= 0%, Lag= 0.0 min
Primary = 3.50 cfs @ 0.15 hrs, Volume= 0.106 af
Routed to Pond CI-A3 : CURB INLET A3

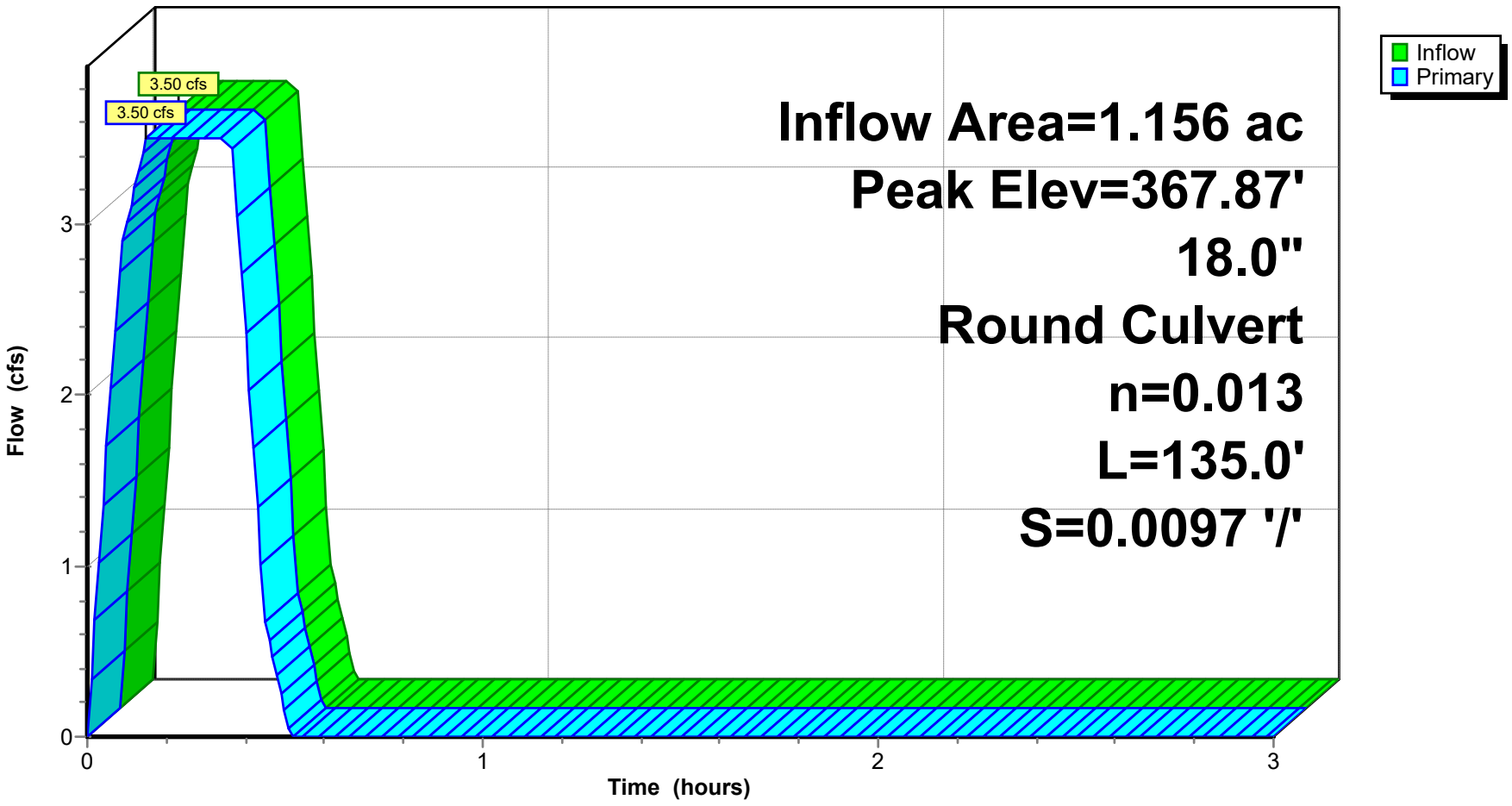
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 367.87' @ 0.15 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	367.03'	**18.0" Round RCP_Round 18"** L= 135.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 367.03' / 365.72' S= 0.0097 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.77 sf

Primary OutFlow Max=3.50 cfs @ 0.15 hrs HW=367.87' (Free Discharge)
1=RCP_Round 18" (Barrel Controls 3.50 cfs @ 4.96 fps)

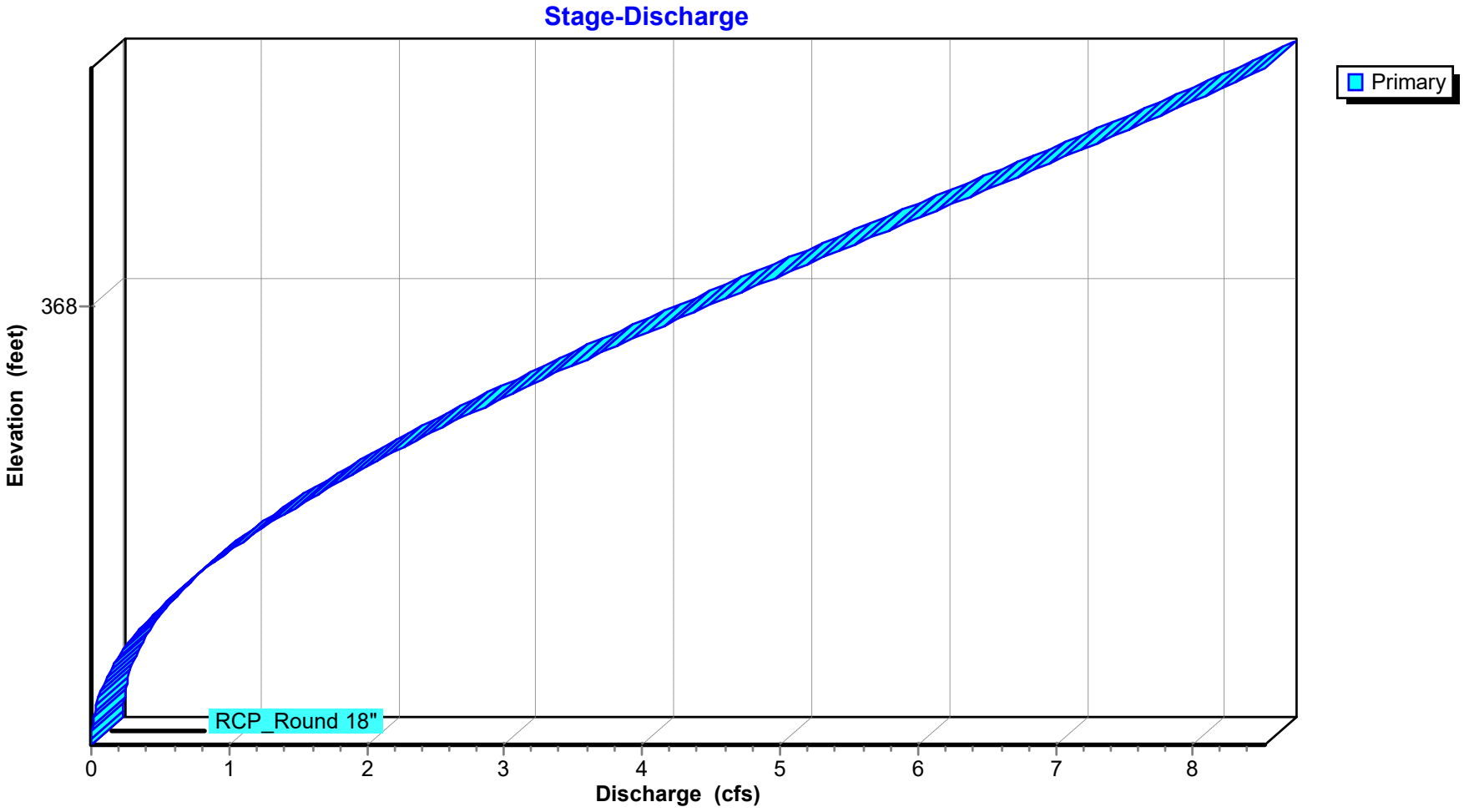
Pond CI-A2: CURB INLET A2

Hydrograph



Pond CI-A2: CURB INLET A2

Stage-Discharge



Stage-Area-Storage for Pond CI-A2: CURB INLET A2

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
367.03	**0.000**	367.95	0.000
367.04	0.000	367.96	0.000
367.05	0.000	367.97	0.000
367.06	0.000	367.98	0.000
367.07	0.000	367.99	0.000
367.08	0.000	368.00	0.000
367.09	0.000	368.01	0.000
367.10	0.000	368.02	0.000
367.11	0.000	368.03	0.000
367.12	0.000	368.04	0.000
367.13	0.000	368.05	0.000
367.14	0.000	368.06	0.000
367.15	0.000	368.07	0.000
367.16	0.000	368.08	0.000
367.17	0.000	368.09	0.000
367.18	0.000	368.10	0.000
367.19	0.000	368.11	0.000
367.20	0.000	368.12	0.000
367.21	0.000	368.13	0.000
367.22	0.000	368.14	0.000
367.23	0.000	368.15	0.000
367.24	0.000	368.16	0.000
367.25	0.000	368.17	0.000
367.26	0.000	368.18	0.000
367.27	0.000	368.19	0.000
367.28	0.000	368.20	0.000
367.29	0.000	368.21	0.000
367.30	0.000	368.22	0.000
367.31	0.000	368.23	0.000
367.32	0.000	368.24	0.000
367.33	0.000	368.25	0.000
367.34	0.000	368.26	0.000
367.35	0.000	368.27	0.000
367.36	0.000	368.28	0.000
367.37	0.000	368.29	0.000
367.38	0.000	368.30	0.000
367.39	0.000	368.31	0.000
367.40	0.000	368.32	0.000
367.41	0.000	368.33	0.000
367.42	0.000	368.34	0.000
367.43	0.000	368.35	0.000
367.44	0.000	368.36	0.000
367.45	0.000	368.37	0.000
367.46	0.000	368.38	0.000
367.47	0.000	368.39	0.000
367.48	0.000	368.40	0.000
367.49	0.000	368.41	0.000
367.50	0.000	368.42	0.000
367.51	0.000	368.43	0.000
367.52	0.000	368.44	0.000
367.53	0.000	368.45	0.000
367.54	0.000	368.46	0.000
367.55	0.000	368.47	0.000
367.56	0.000	368.48	0.000
367.57	0.000	368.49	0.000
367.58	0.000	368.50	0.000
367.59	0.000	368.51	0.000
367.60	0.000	368.52	0.000
367.61	0.000	368.53	0.000
367.62	0.000		
367.63	0.000		
367.64	0.000		
367.65	0.000		
367.66	0.000		
367.67	0.000		
367.68	0.000		
367.69	0.000		
367.70	0.000		
367.71	0.000		
367.72	0.000		
367.73	0.000		
367.74	0.000		
367.75	0.000		
367.76	0.000		
367.77	0.000		
367.78	0.000		
367.79	0.000		
367.80	0.000		
367.81	0.000		
367.82	0.000		
367.83	0.000		
367.84	0.000		
367.85	0.000		
367.86	0.000		
367.87	0.000		
367.88	0.000		
367.89	0.000		
367.90	0.000		
367.91	0.000		
367.92	0.000		
367.93	0.000		
367.94	0.000		

Summary for Pond CI-A3: CURB INLET A3

Inflow Area = 1.426 ac, 0.00% Impervious, Inflow Depth = 1.11" for 10-yr event
Inflow = 4.35 cfs @ 0.15 hrs, Volume= 0.132 af
Outflow = 4.35 cfs @ 0.15 hrs, Volume= 0.132 af, Atten= 0%, Lag= 0.0 min
Primary = 4.35 cfs @ 0.15 hrs, Volume= 0.132 af
Routed to Pond CI-A4 : CURB INLET A4

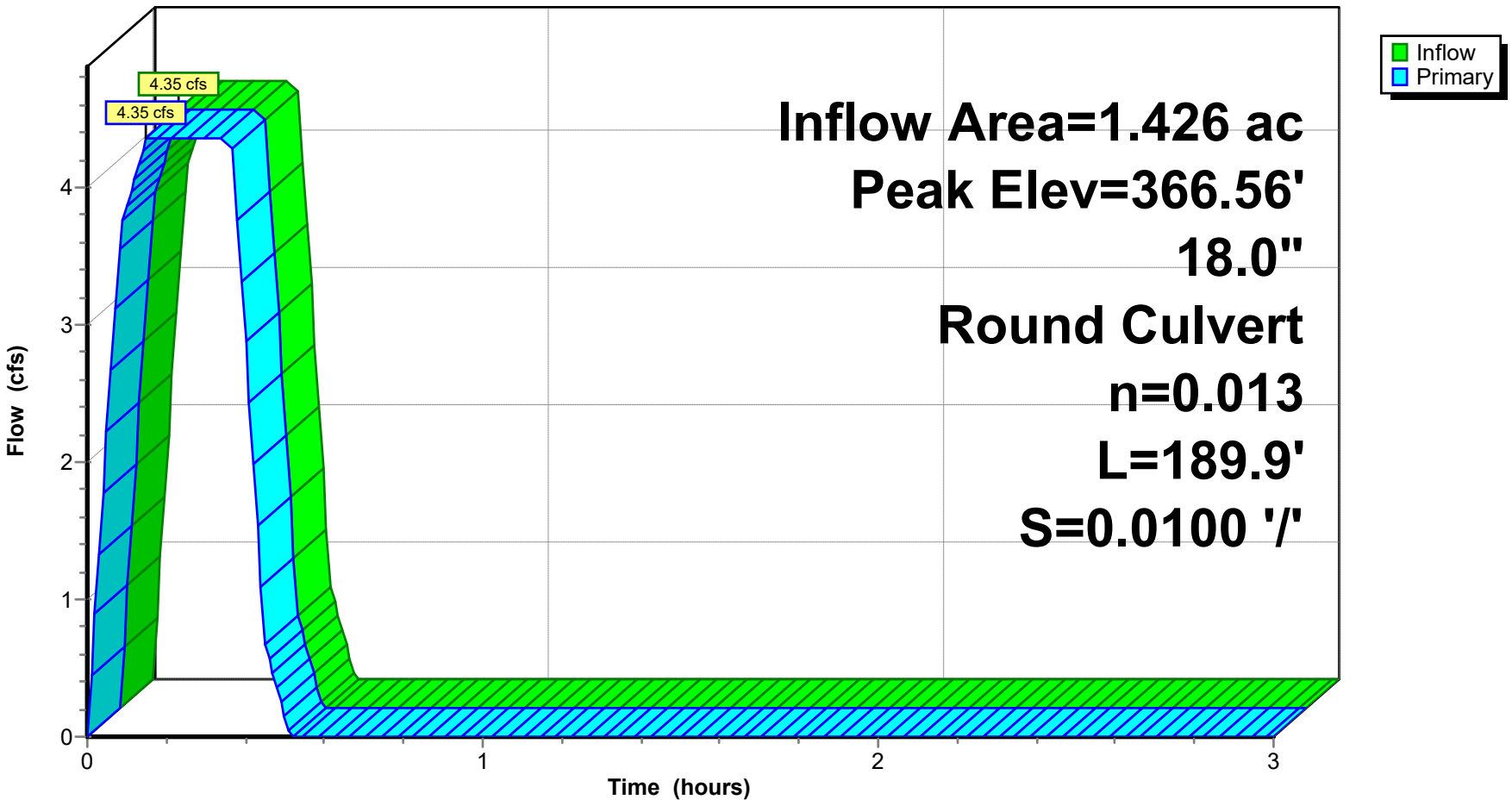
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 366.56' @ 0.15 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	365.62'	**18.0" Round RCP_Round 18"** L= 189.9' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 365.62' / 363.72' S= 0.0100 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.77 sf

Primary OutFlow Max=4.35 cfs @ 0.15 hrs HW=366.56' (Free Discharge)
1=RCP_Round 18" (Barrel Controls 4.35 cfs @ 5.36 fps)

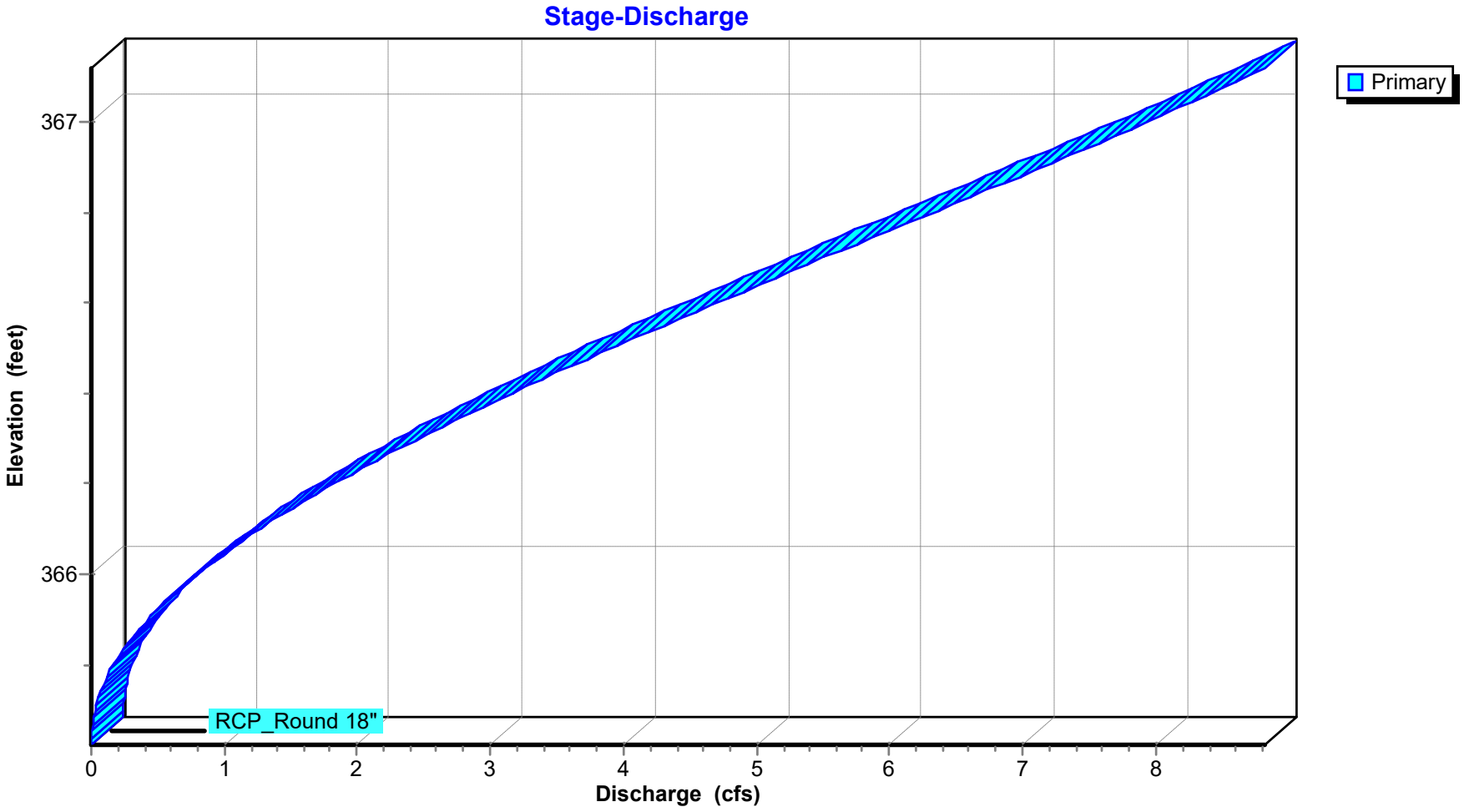
Pond CI-A3: CURB INLET A3

Hydrograph



Pond CI-A3: CURB INLET A3

Stage-Discharge



Stage-Area-Storage for Pond CI-A3: CURB INLET A3

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
365.62	**0.000**	366.54	0.000
365.63	0.000	366.55	0.000
365.64	0.000	366.56	0.000
365.65	0.000	366.57	0.000
365.66	0.000	366.58	0.000
365.67	0.000	366.59	0.000
365.68	0.000	366.60	0.000
365.69	0.000	366.61	0.000
365.70	0.000	366.62	0.000
365.71	0.000	366.63	0.000
365.72	0.000	366.64	0.000
365.73	0.000	366.65	0.000
365.74	0.000	366.66	0.000
365.75	0.000	366.67	0.000
365.76	0.000	366.68	0.000
365.77	0.000	366.69	0.000
365.78	0.000	366.70	0.000
365.79	0.000	366.71	0.000
365.80	0.000	366.72	0.000
365.81	0.000	366.73	0.000
365.82	0.000	366.74	0.000
365.83	0.000	366.75	0.000
365.84	0.000	366.76	0.000
365.85	0.000	366.77	0.000
365.86	0.000	366.78	0.000
365.87	0.000	366.79	0.000
365.88	0.000	366.80	0.000
365.89	0.000	366.81	0.000
365.90	0.000	366.82	0.000
365.91	0.000	366.83	0.000
365.92	0.000	366.84	0.000
365.93	0.000	366.85	0.000
365.94	0.000	366.86	0.000
365.95	0.000	366.87	0.000
365.96	0.000	366.88	0.000
365.97	0.000	366.89	0.000
365.98	0.000	366.90	0.000
365.99	0.000	366.91	0.000
366.00	0.000	366.92	0.000
366.01	0.000	366.93	0.000
366.02	0.000	366.94	0.000
366.03	0.000	366.95	0.000
366.04	0.000	366.96	0.000
366.05	0.000	366.97	0.000
366.06	0.000	366.98	0.000
366.07	0.000	366.99	0.000
366.08	0.000	367.00	0.000
366.09	0.000	367.01	0.000
366.10	0.000	367.02	0.000
366.11	0.000	367.03	0.000
366.12	0.000	367.04	0.000
366.13	0.000	367.05	0.000
366.14	0.000	367.06	0.000
366.15	0.000	367.07	0.000
366.16	0.000	367.08	0.000
366.17	0.000	367.09	0.000
366.18	0.000	367.10	0.000
366.19	0.000	367.11	0.000
366.20	0.000	367.12	0.000
366.21	0.000		
366.22	0.000		
366.23	0.000		
366.24	0.000		
366.25	0.000		
366.26	0.000		
366.27	0.000		
366.28	0.000		
366.29	0.000		
366.30	0.000		
366.31	0.000		
366.32	0.000		
366.33	0.000		
366.34	0.000		
366.35	0.000		
366.36	0.000		
366.37	0.000		
366.38	0.000		
366.39	0.000		
366.40	0.000		
366.41	0.000		
366.42	0.000		
366.43	0.000		
366.44	0.000		
366.45	0.000		
366.46	0.000		
366.47	0.000		
366.48	0.000		
366.49	0.000		
366.50	0.000		
366.51	0.000		
366.52	0.000		
366.53	0.000		

Summary for Pond CI-A4: CURB INLET A4

Inflow Area = 2.197 ac, 0.00% Impervious, Inflow Depth = 1.09" for 10-yr event
Inflow = 6.59 cfs @ 0.15 hrs, Volume= 0.200 af
Outflow = 6.59 cfs @ 0.16 hrs, Volume= 0.200 af, Atten= 0%, Lag= 0.6 min
Primary = 6.59 cfs @ 0.16 hrs, Volume= 0.200 af
Routed to Pond CI-A5 : CURB INLET A5

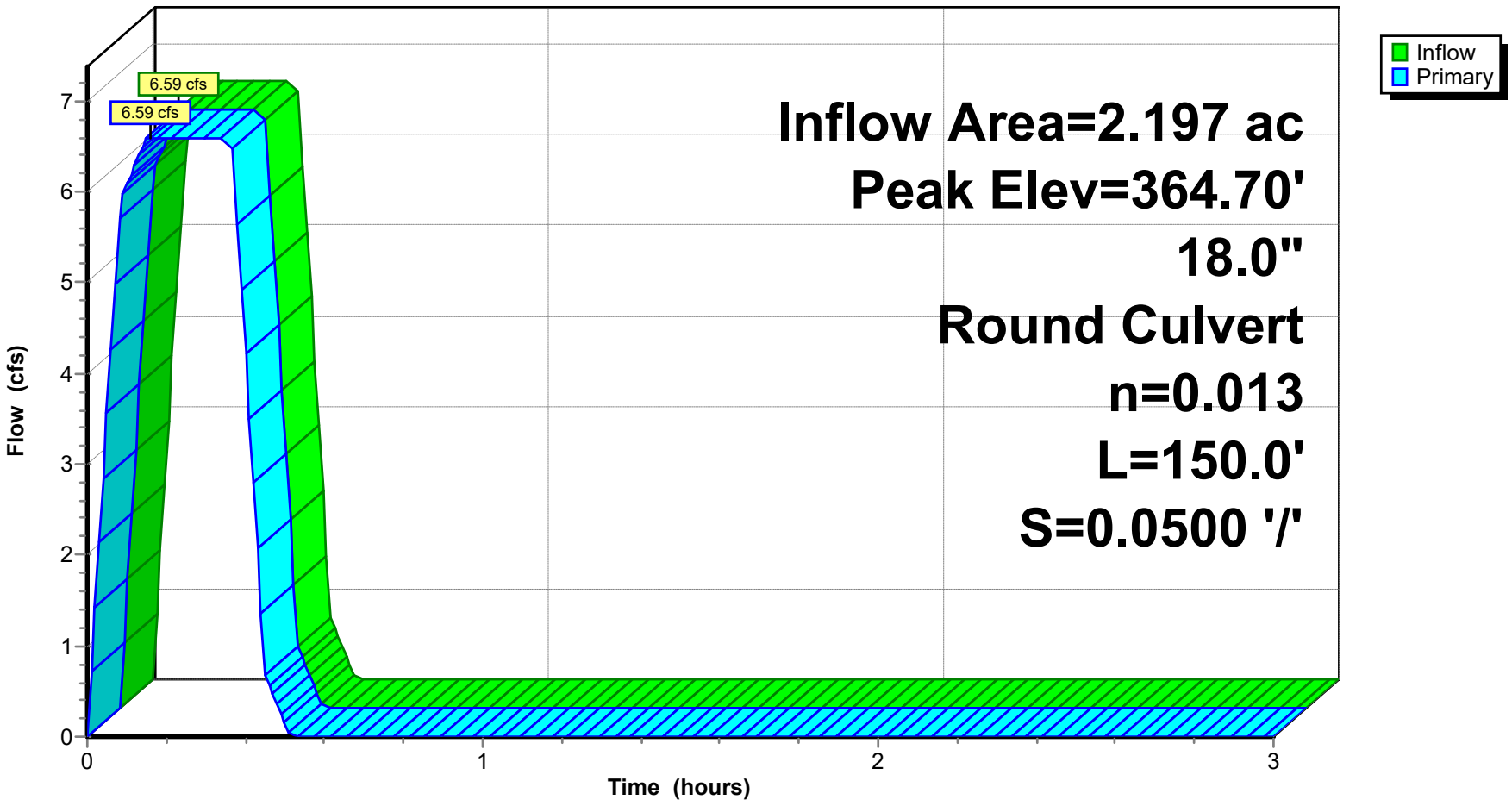
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 364.70' @ 0.15 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	363.62'	**18.0" Round RCP_Round 18"** L= 150.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 363.62' / 356.12' S= 0.0500 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.77 sf

Primary OutFlow Max=6.59 cfs @ 0.16 hrs HW=364.70' (Free Discharge)
1=RCP_Round 18" (Inlet Controls 6.59 cfs @ 4.83 fps)

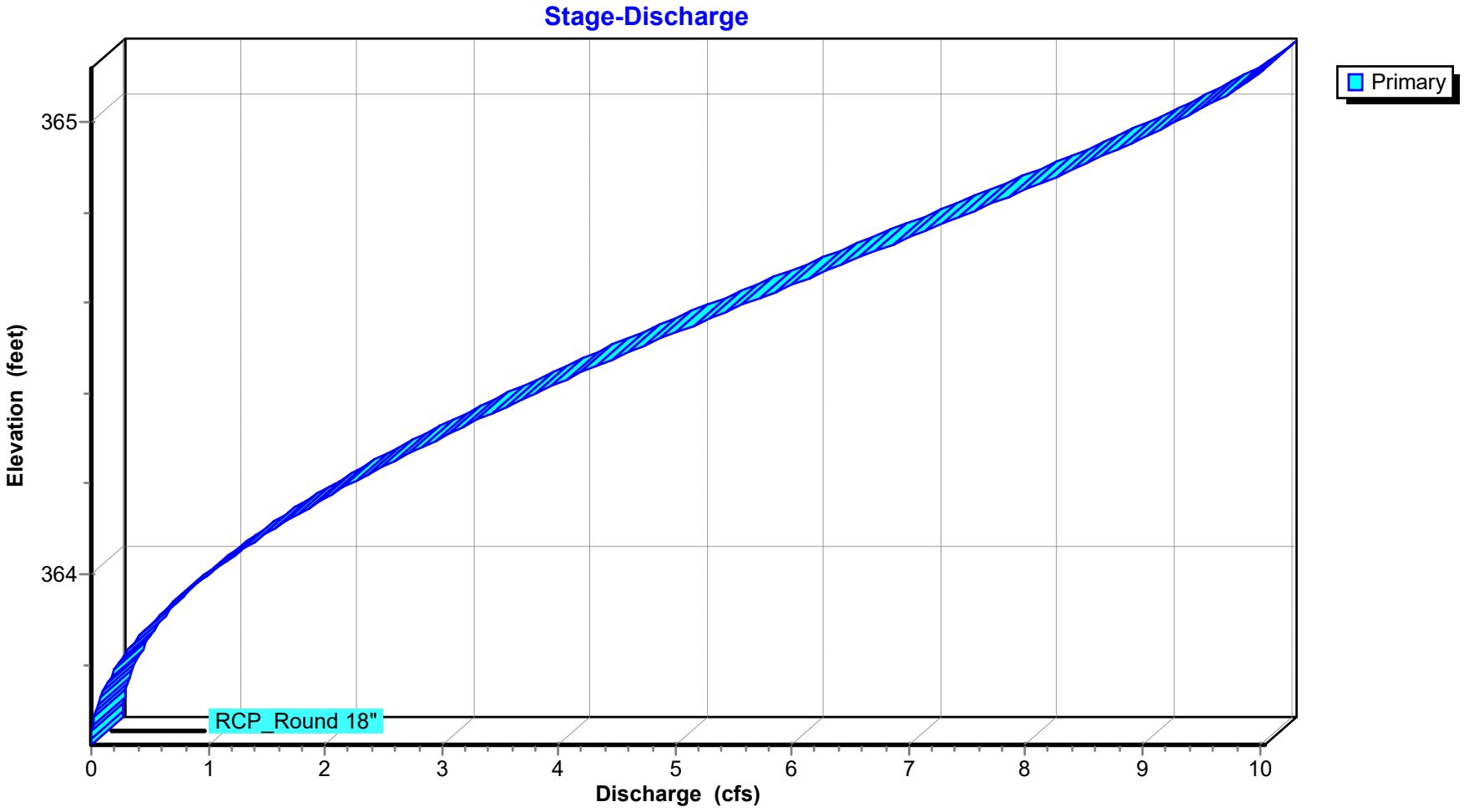
Pond CI-A4: CURB INLET A4

Hydrograph



Pond CI-A4: CURB INLET A4

Stage-Discharge



Stage-Area-Storage for Pond CI-A4: CURB INLET A4

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
363.62	**0.000**	364.54	0.000
363.63	0.000	364.55	0.000
363.64	0.000	364.56	0.000
363.65	0.000	364.57	0.000
363.66	0.000	364.58	0.000
363.67	0.000	364.59	0.000
363.68	0.000	364.60	0.000
363.69	0.000	364.61	0.000
363.70	0.000	364.62	0.000
363.71	0.000	364.63	0.000
363.72	0.000	364.64	0.000
363.73	0.000	364.65	0.000
363.74	0.000	364.66	0.000
363.75	0.000	364.67	0.000
363.76	0.000	364.68	0.000
363.77	0.000	364.69	0.000
363.78	0.000	364.70	0.000
363.79	0.000	364.71	0.000
363.80	0.000	364.72	0.000
363.81	0.000	364.73	0.000
363.82	0.000	364.74	0.000
363.83	0.000	364.75	0.000
363.84	0.000	364.76	0.000
363.85	0.000	364.77	0.000
363.86	0.000	364.78	0.000
363.87	0.000	364.79	0.000
363.88	0.000	364.80	0.000
363.89	0.000	364.81	0.000
363.90	0.000	364.82	0.000
363.91	0.000	364.83	0.000
363.92	0.000	364.84	0.000
363.93	0.000	364.85	0.000
363.94	0.000	364.86	0.000
363.95	0.000	364.87	0.000
363.96	0.000	364.88	0.000
363.97	0.000	364.89	0.000
363.98	0.000	364.90	0.000
363.99	0.000	364.91	0.000
364.00	0.000	364.92	0.000
364.01	0.000	364.93	0.000
364.02	0.000	364.94	0.000
364.03	0.000	364.95	0.000
364.04	0.000	364.96	0.000
364.05	0.000	364.97	0.000
364.06	0.000	364.98	0.000
364.07	0.000	364.99	0.000
364.08	0.000	365.00	0.000
364.09	0.000	365.01	0.000
364.10	0.000	365.02	0.000
364.11	0.000	365.03	0.000
364.12	0.000	365.04	0.000
364.13	0.000	365.05	0.000
364.14	0.000	365.06	0.000
364.15	0.000	365.07	0.000
364.16	0.000	365.08	0.000
364.17	0.000	365.09	0.000
364.18	0.000	365.10	0.000
364.19	0.000	365.11	0.000
364.20	0.000	365.12	0.000
364.21	0.000		
364.22	0.000		
364.23	0.000		
364.24	0.000		
364.25	0.000		
364.26	0.000		
364.27	0.000		
364.28	0.000		
364.29	0.000		
364.30	0.000		
364.31	0.000		
364.32	0.000		
364.33	0.000		
364.34	0.000		
364.35	0.000		
364.36	0.000		
364.37	0.000		
364.38	0.000		
364.39	0.000		
364.40	0.000		
364.41	0.000		
364.42	0.000		
364.43	0.000		
364.44	0.000		
364.45	0.000		
364.46	0.000		
364.47	0.000		
364.48	0.000		
364.49	0.000		
364.50	0.000		
364.51	0.000		
364.52	0.000		
364.53	0.000		

Summary for Pond CI-A5: CURB INLET A5

Inflow Area = 2.439 ac, 0.00% Impervious, Inflow Depth = 1.06" for 10-yr event
Inflow = 7.10 cfs @ 0.16 hrs, Volume= 0.215 af
Outflow = 7.10 cfs @ 0.18 hrs, Volume= 0.215 af, Atten= 0%, Lag= 1.2 min
Primary = 7.10 cfs @ 0.18 hrs, Volume= 0.215 af
Routed to Link POST-DEV : Post-Development

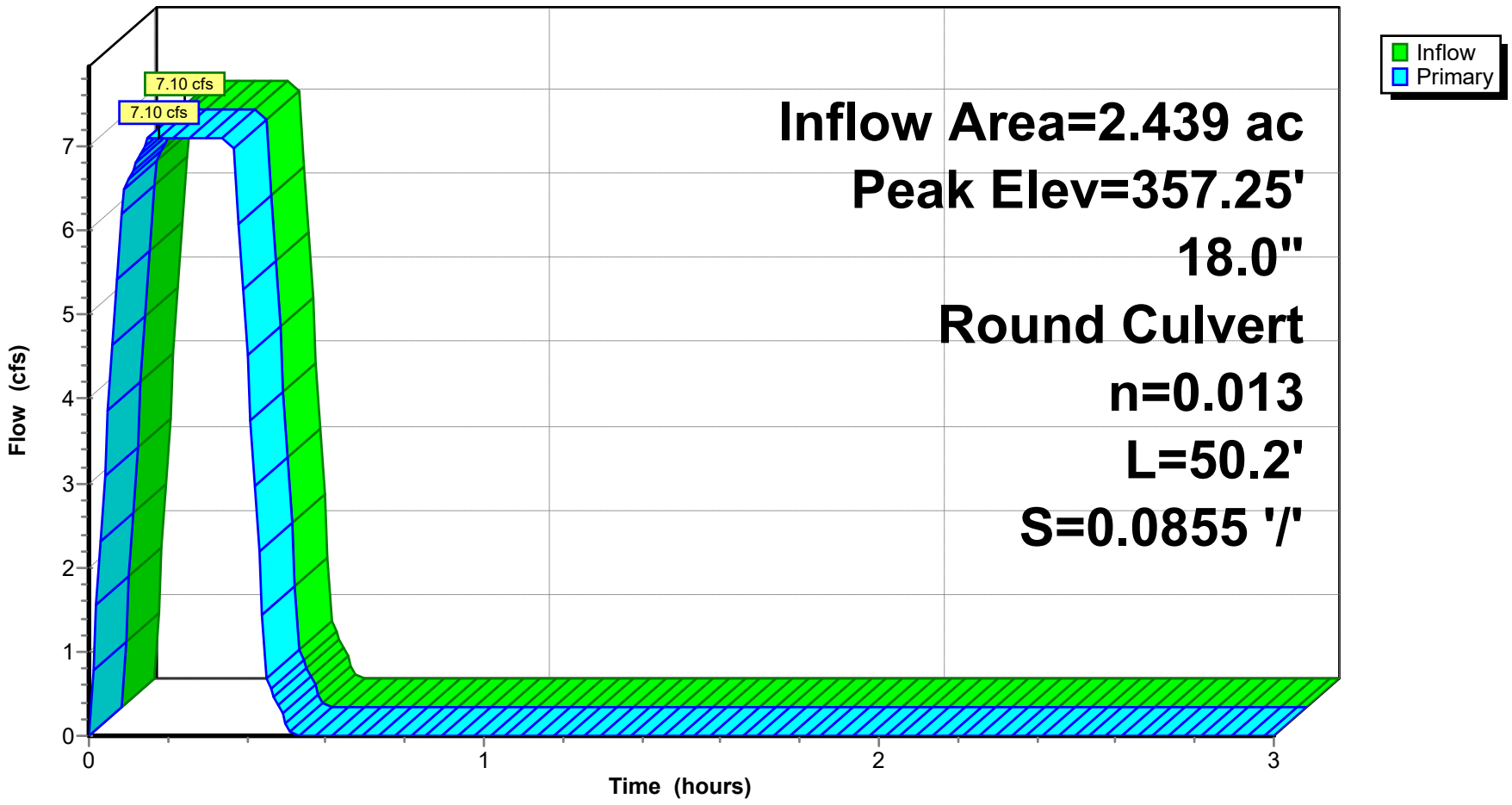
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 357.25' @ 0.15 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	356.12'	**18.0" Round RCP_Round 18** L= 50.2' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 356.12' / 351.83' S= 0.0855 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.77 sf

Primary OutFlow Max=7.10 cfs @ 0.18 hrs HW=357.25' (Free Discharge)
1=RCP_Round 18 (Inlet Controls 7.10 cfs @ 4.95 fps)

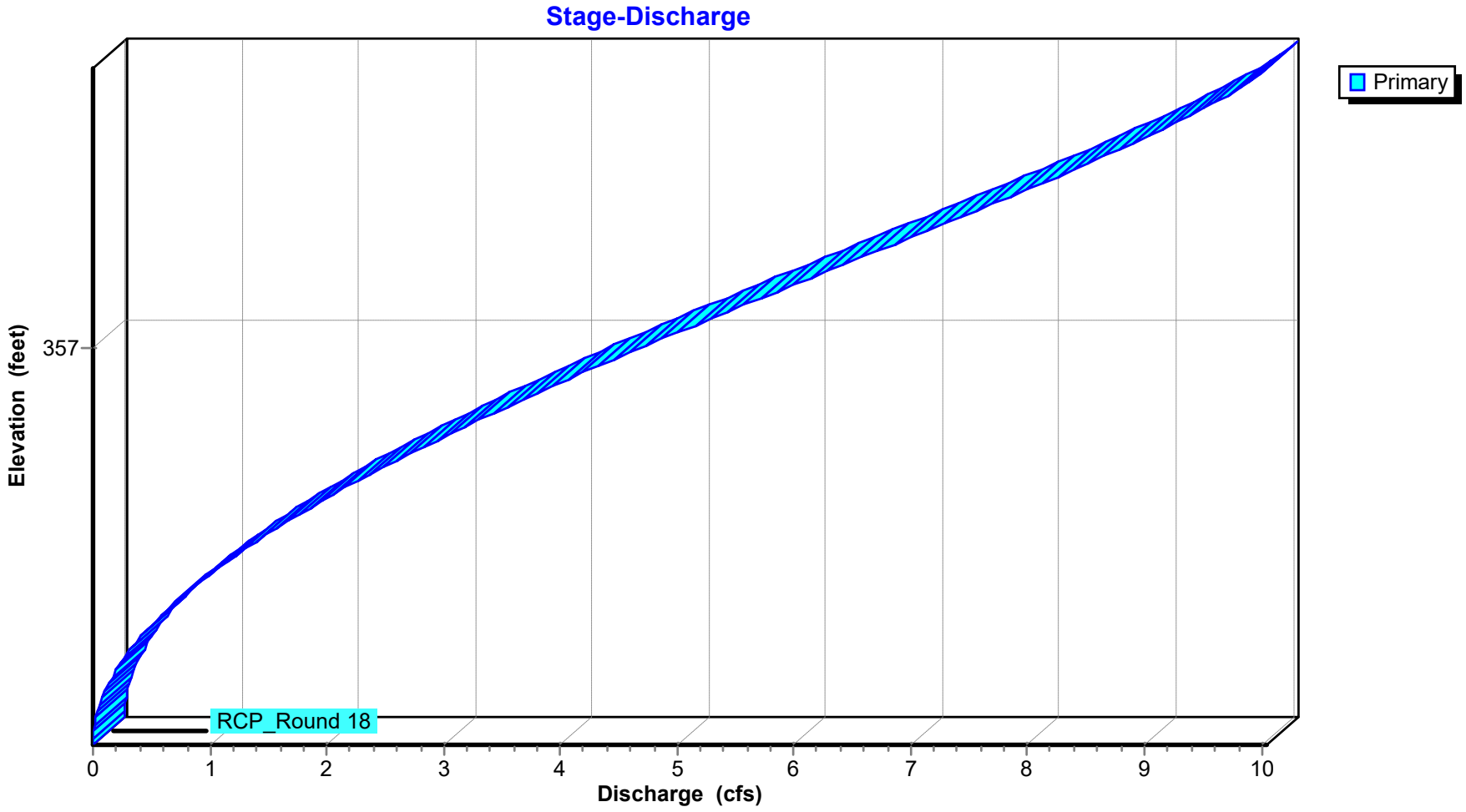
Pond CI-A5: CURB INLET A5

Hydrograph



Pond CI-A5: CURB INLET A5

Stage-Discharge



Stage-Area-Storage for Pond CI-A5: CURB INLET A5

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
356.12	**0.000**	357.04	0.000
356.13	0.000	357.05	0.000
356.14	0.000	357.06	0.000
356.15	0.000	357.07	0.000
356.16	0.000	357.08	0.000
356.17	0.000	357.09	0.000
356.18	0.000	357.10	0.000
356.19	0.000	357.11	0.000
356.20	0.000	357.12	0.000
356.21	0.000	357.13	0.000
356.22	0.000	357.14	0.000
356.23	0.000	357.15	0.000
356.24	0.000	357.16	0.000
356.25	0.000	357.17	0.000
356.26	0.000	357.18	0.000
356.27	0.000	357.19	0.000
356.28	0.000	357.20	0.000
356.29	0.000	357.21	0.000
356.30	0.000	357.22	0.000
356.31	0.000	357.23	0.000
356.32	0.000	357.24	0.000
356.33	0.000	357.25	0.000
356.34	0.000	357.26	0.000
356.35	0.000	357.27	0.000
356.36	0.000	357.28	0.000
356.37	0.000	357.29	0.000
356.38	0.000	357.30	0.000
356.39	0.000	357.31	0.000
356.40	0.000	357.32	0.000
356.41	0.000	357.33	0.000
356.42	0.000	357.34	0.000
356.43	0.000	357.35	0.000
356.44	0.000	357.36	0.000
356.45	0.000	357.37	0.000
356.46	0.000	357.38	0.000
356.47	0.000	357.39	0.000
356.48	0.000	357.40	0.000
356.49	0.000	357.41	0.000
356.50	0.000	357.42	0.000
356.51	0.000	357.43	0.000
356.52	0.000	357.44	0.000
356.53	0.000	357.45	0.000
356.54	0.000	357.46	0.000
356.55	0.000	357.47	0.000
356.56	0.000	357.48	0.000
356.57	0.000	357.49	0.000
356.58	0.000	357.50	0.000
356.59	0.000	357.51	0.000
356.60	0.000	357.52	0.000
356.61	0.000	357.53	0.000
356.62	0.000	357.54	0.000
356.63	0.000	357.55	0.000
356.64	0.000	357.56	0.000
356.65	0.000	357.57	0.000
356.66	0.000	357.58	0.000
356.67	0.000	357.59	0.000
356.68	0.000	357.60	0.000
356.69	0.000	357.61	0.000
356.70	0.000	357.62	0.000
356.71	0.000		
356.72	0.000		
356.73	0.000		
356.74	0.000		
356.75	0.000		
356.76	0.000		
356.77	0.000		
356.78	0.000		
356.79	0.000		
356.80	0.000		
356.81	0.000		
356.82	0.000		
356.83	0.000		
356.84	0.000		
356.85	0.000		
356.86	0.000		
356.87	0.000		
356.88	0.000		
356.89	0.000		
356.90	0.000		
356.91	0.000		
356.92	0.000		
356.93	0.000		
356.94	0.000		
356.95	0.000		
356.96	0.000		
356.97	0.000		
356.98	0.000		
356.99	0.000		
357.00	0.000		
357.01	0.000		
357.02	0.000		
357.03	0.000		

Summary for Pond CI-C1: CURB INLET C1

Inflow Area = 0.210 ac, 0.00% Impervious, Inflow Depth = 0.92" for 10-yr event
Inflow = 0.53 cfs @ 0.09 hrs, Volume= 0.016 af
Outflow = 0.53 cfs @ 0.10 hrs, Volume= 0.016 af, Atten= 0%, Lag= 0.6 min
Primary = 0.53 cfs @ 0.10 hrs, Volume= 0.016 af
Routed to Pond CI-C2 : CURB INLET C2

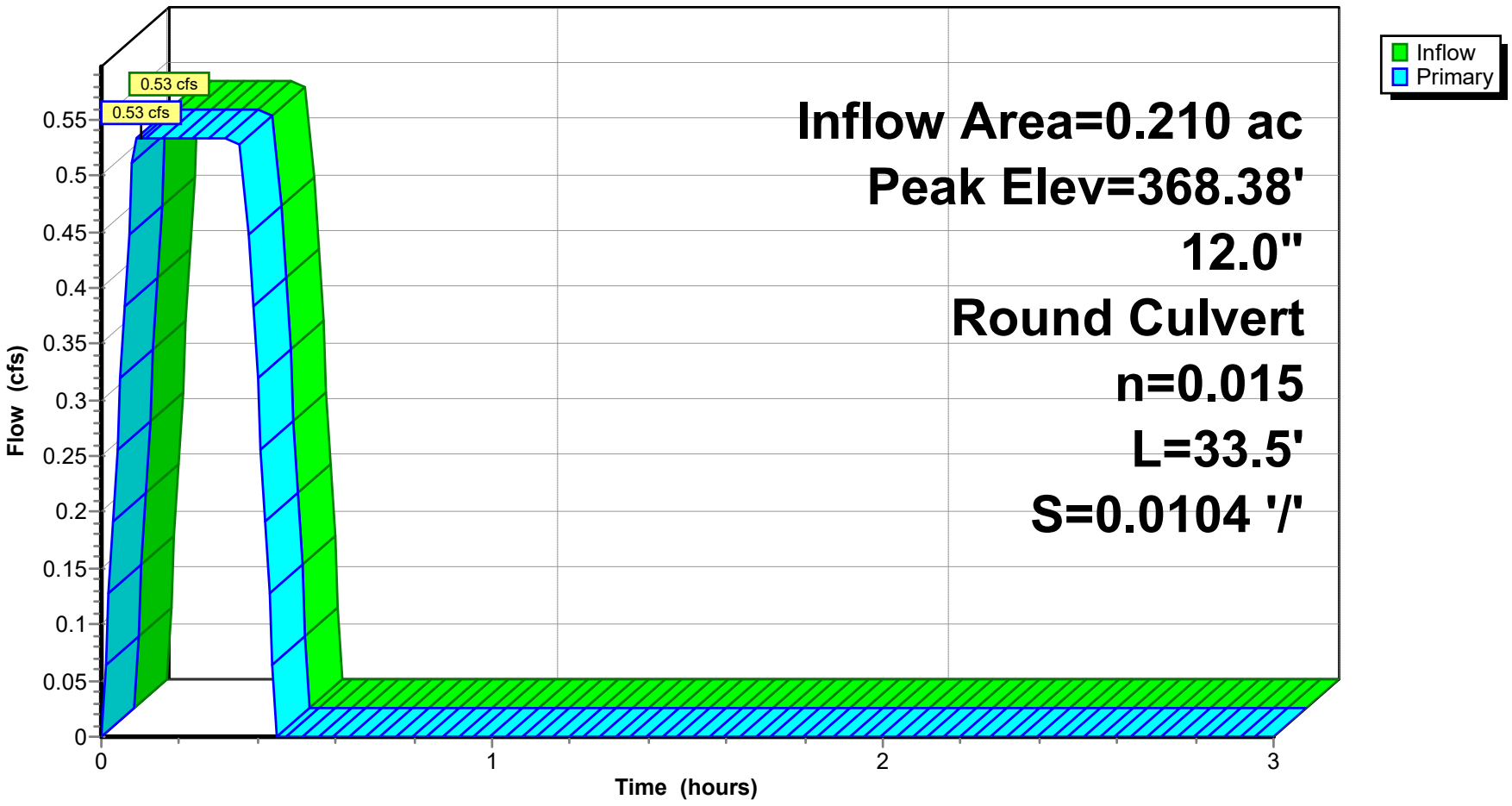
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 368.38' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	368.00'	**12.0" Round RCP_ROUND 12"** L= 33.5' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 368.00' / 367.65' S= 0.0104 '/' Cc= 0.900 n= 0.015 Concrete sewer w/manholes & inlets, Flow Area= 0.79 sf

Primary OutFlow Max=0.53 cfs @ 0.10 hrs HW=368.38' (Free Discharge)
└**1=RCP_ROUND 12"** (Barrel Controls 0.53 cfs @ 2.85 fps)

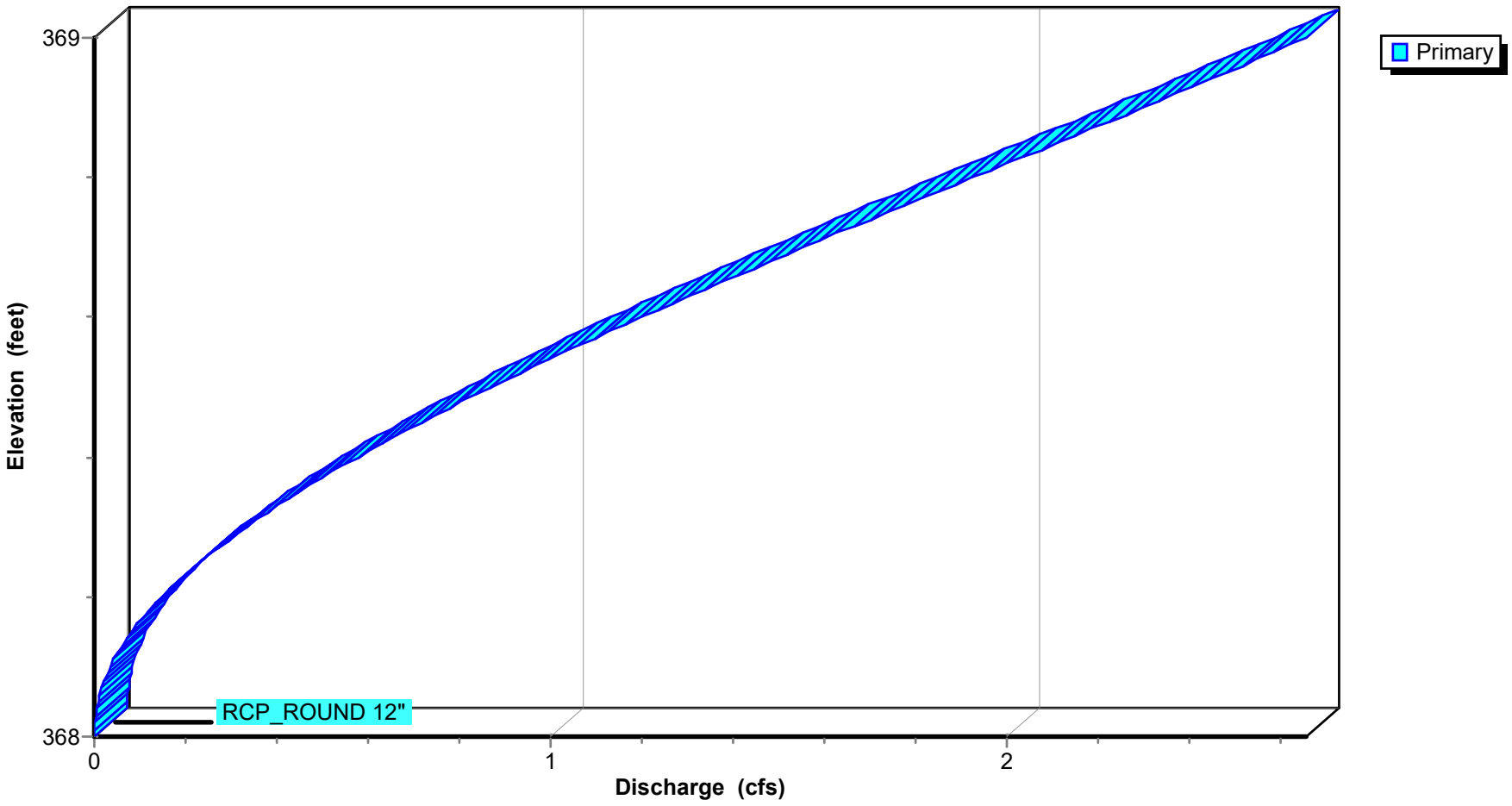
Pond CI-C1: CURB INLET C1

Hydrograph



Pond CI-C1: CURB INLET C1

Stage-Discharge



Stage-Area-Storage for Pond CI-C1: CURB INLET C1

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
368.00	**0.000**	368.92	0.000
368.01	0.000	368.93	0.000
368.02	0.000	368.94	0.000
368.03	0.000	368.95	0.000
368.04	0.000	368.96	0.000
368.05	0.000	368.97	0.000
368.06	0.000	368.98	0.000
368.07	0.000	368.99	0.000
368.08	0.000	369.00	0.000
368.09	0.000		
368.10	0.000		
368.11	0.000		
368.12	0.000		
368.13	0.000		
368.14	0.000		
368.15	0.000		
368.16	0.000		
368.17	0.000		
368.18	0.000		
368.19	0.000		
368.20	0.000		
368.21	0.000		
368.22	0.000		
368.23	0.000		
368.24	0.000		
368.25	0.000		
368.26	0.000		
368.27	0.000		
368.28	0.000		
368.29	0.000		
368.30	0.000		
368.31	0.000		
368.32	0.000		
368.33	0.000		
368.34	0.000		
368.35	0.000		
368.36	0.000		
368.37	0.000		
368.38	0.000		
368.39	0.000		
368.40	0.000		
368.41	0.000		
368.42	0.000		
368.43	0.000		
368.44	0.000		
368.45	0.000		
368.46	0.000		
368.47	0.000		
368.48	0.000		
368.49	0.000		
368.50	0.000		
368.51	0.000		
368.52	0.000		
368.53	0.000		
368.54	0.000		
368.55	0.000		
368.56	0.000		
368.57	0.000		
368.58	0.000		
368.59	0.000		
368.60	0.000		
368.61	0.000		
368.62	0.000		
368.63	0.000		
368.64	0.000		
368.65	0.000		
368.66	0.000		
368.67	0.000		
368.68	0.000		
368.69	0.000		
368.70	0.000		
368.71	0.000		
368.72	0.000		
368.73	0.000		
368.74	0.000		
368.75	0.000		
368.76	0.000		
368.77	0.000		
368.78	0.000		
368.79	0.000		
368.80	0.000		
368.81	0.000		
368.82	0.000		
368.83	0.000		
368.84	0.000		
368.85	0.000		
368.86	0.000		
368.87	0.000		
368.88	0.000		
368.89	0.000		
368.90	0.000		
368.91	0.000		

Summary for Pond CI-C2: CURB INLET C2

Inflow Area = 0.247 ac, 0.00% Impervious, Inflow Depth = 0.92" for 10-yr event
Inflow = 0.62 cfs @ 0.10 hrs, Volume= 0.019 af
Outflow = 0.62 cfs @ 0.09 hrs, Volume= 0.019 af, Atten= 0%, Lag= 0.0 min
Primary = 0.62 cfs @ 0.09 hrs, Volume= 0.019 af
Routed to Pond JB-C3 : JUNCTION BOX C3

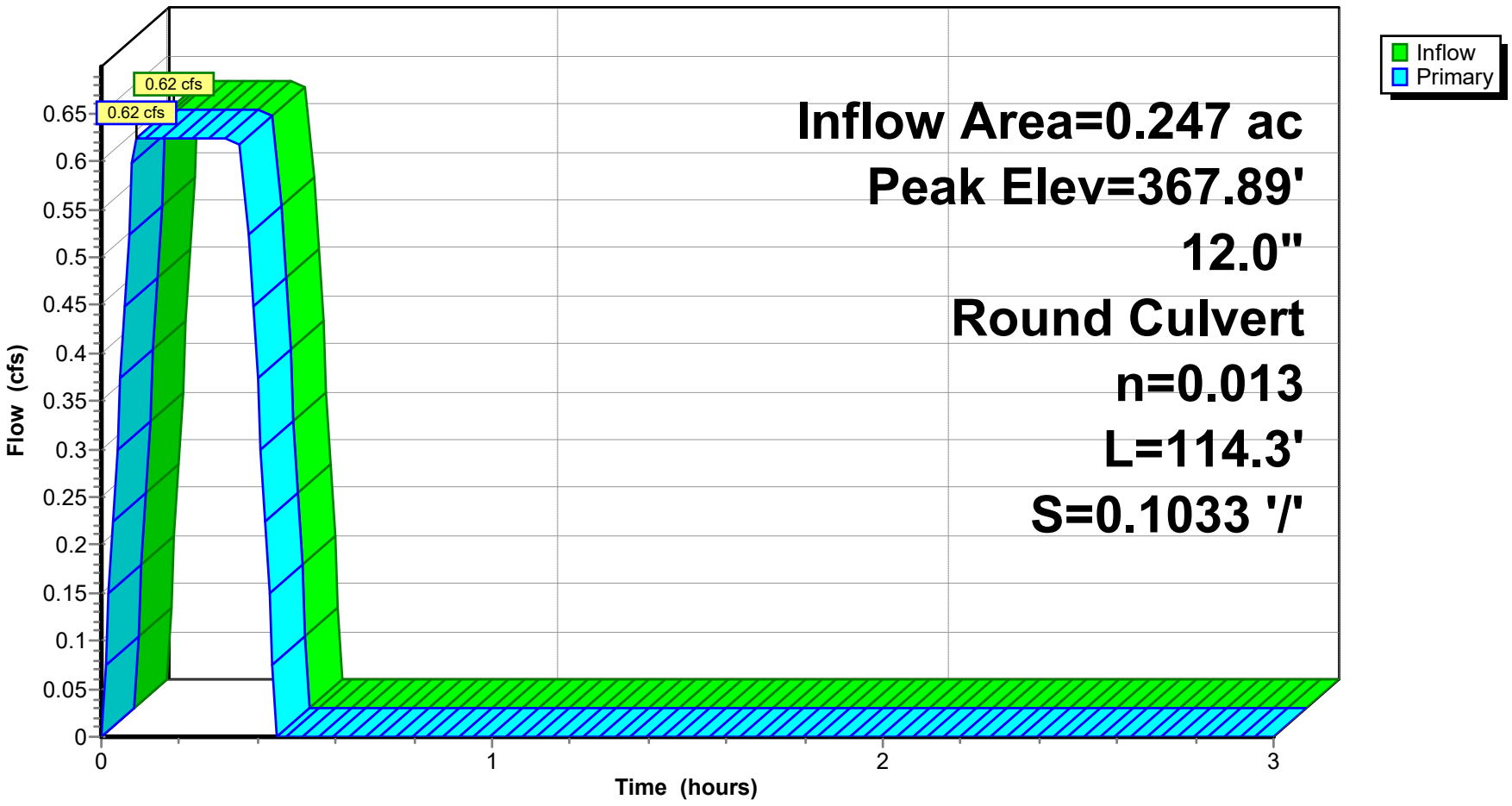
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 367.89' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	367.55'	**12.0" Round RCP_ROUND 12"** L= 114.3' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 367.55' / 355.74' S= 0.1033 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf

Primary OutFlow Max=0.62 cfs @ 0.09 hrs HW=367.89' (Free Discharge)
1=RCP_ROUND 12" (Inlet Controls 0.62 cfs @ 2.69 fps)

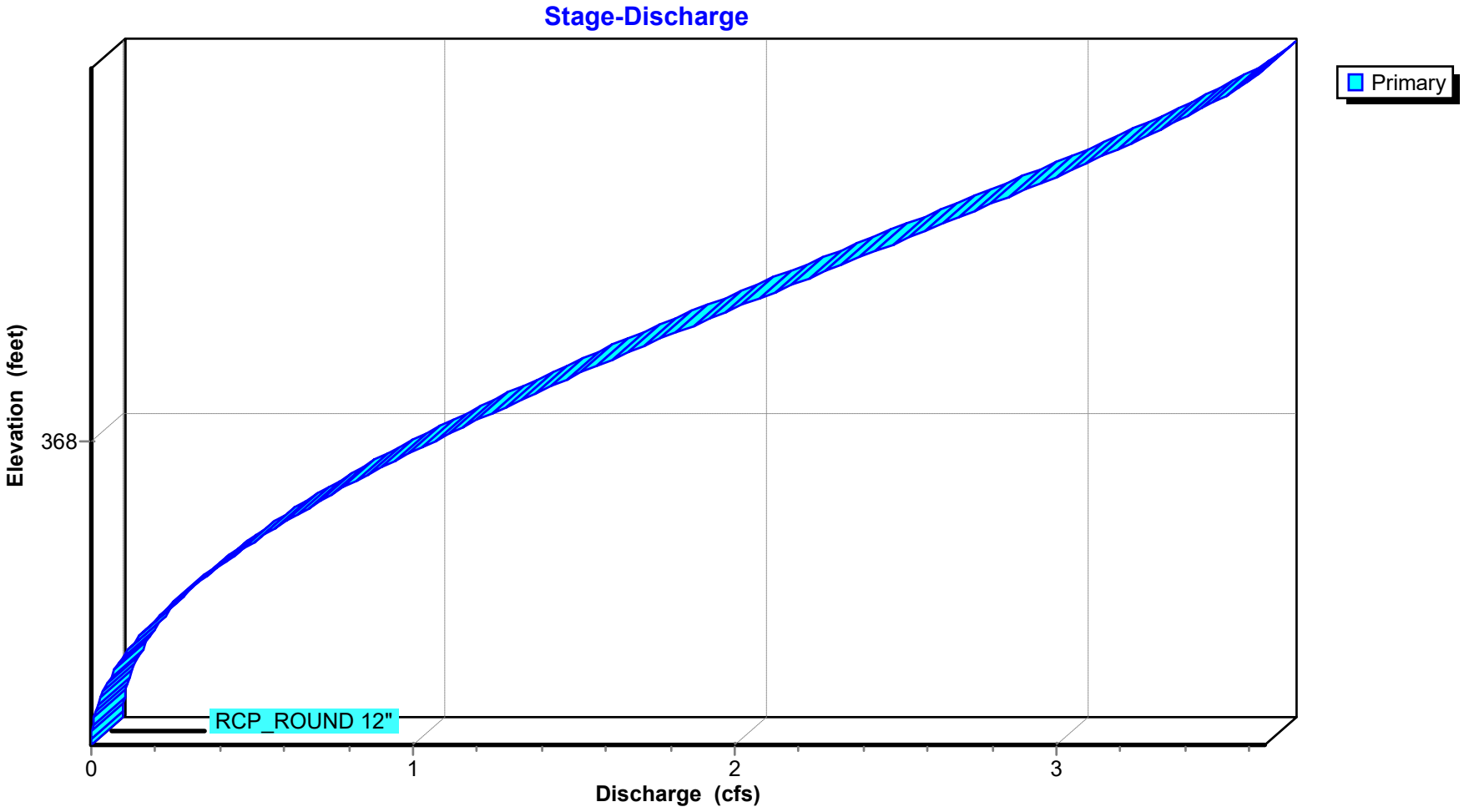
Pond CI-C2: CURB INLET C2

Hydrograph



Pond CI-C2: CURB INLET C2

Stage-Discharge



Stage-Area-Storage for Pond CI-C2: CURB INLET C2

Elevation (feet)	Storage (acre-feet)
367.55	**0.000**
367.56	0.000
367.57	0.000
367.58	0.000
367.59	0.000
367.60	0.000
367.61	0.000
367.62	0.000
367.63	0.000
367.64	0.000
367.65	0.000
367.66	0.000
367.67	0.000
367.68	0.000
367.69	0.000
367.70	0.000
367.71	0.000
367.72	0.000
367.73	0.000
367.74	0.000
367.75	0.000
367.76	0.000
367.77	0.000
367.78	0.000
367.79	0.000
367.80	0.000
367.81	0.000
367.82	0.000
367.83	0.000
367.84	0.000
367.85	0.000
367.86	0.000
367.87	0.000
367.88	0.000
367.89	0.000
367.90	0.000
367.91	0.000
367.92	0.000
367.93	0.000
367.94	0.000
367.95	0.000
367.96	0.000
367.97	0.000
367.98	0.000
367.99	0.000
368.00	0.000
368.01	0.000
368.02	0.000
368.03	0.000
368.04	0.000
368.05	0.000
368.06	0.000
368.07	0.000
368.08	0.000
368.09	0.000
368.10	0.000
368.11	0.000
368.12	0.000
368.13	0.000
368.14	0.000
368.15	0.000
368.16	0.000
368.17	0.000
368.18	0.000
368.19	0.000
368.20	0.000
368.21	0.000
368.22	0.000
368.23	0.000
368.24	0.000
368.25	0.000
368.26	0.000
368.27	0.000
368.28	0.000
368.29	0.000
368.30	0.000
368.31	0.000
368.32	0.000
368.33	0.000
368.34	0.000
368.35	0.000
368.36	0.000
368.37	0.000
368.38	0.000
368.39	0.000
368.40	0.000
368.41	0.000
368.42	0.000
368.43	0.000
368.44	0.000
368.45	0.000
368.46	0.000
368.47	0.000
368.48	0.000
368.49	0.000
368.50	0.000
368.51	0.000
368.52	0.000
368.53	0.000
368.54	0.000
368.55	0.000

Summary for Pond CI-C4: CURB INLET C4

Inflow Area = 0.965 ac, 0.00% Impervious, Inflow Depth = 0.92" for 10-yr event
Inflow = 2.45 cfs @ 0.10 hrs, Volume= 0.074 af
Outflow = 2.45 cfs @ 0.10 hrs, Volume= 0.074 af, Atten= 0%, Lag= 0.0 min
Primary = 2.45 cfs @ 0.10 hrs, Volume= 0.074 af
Routed to Pond CI-C5 : CURB INLET C5

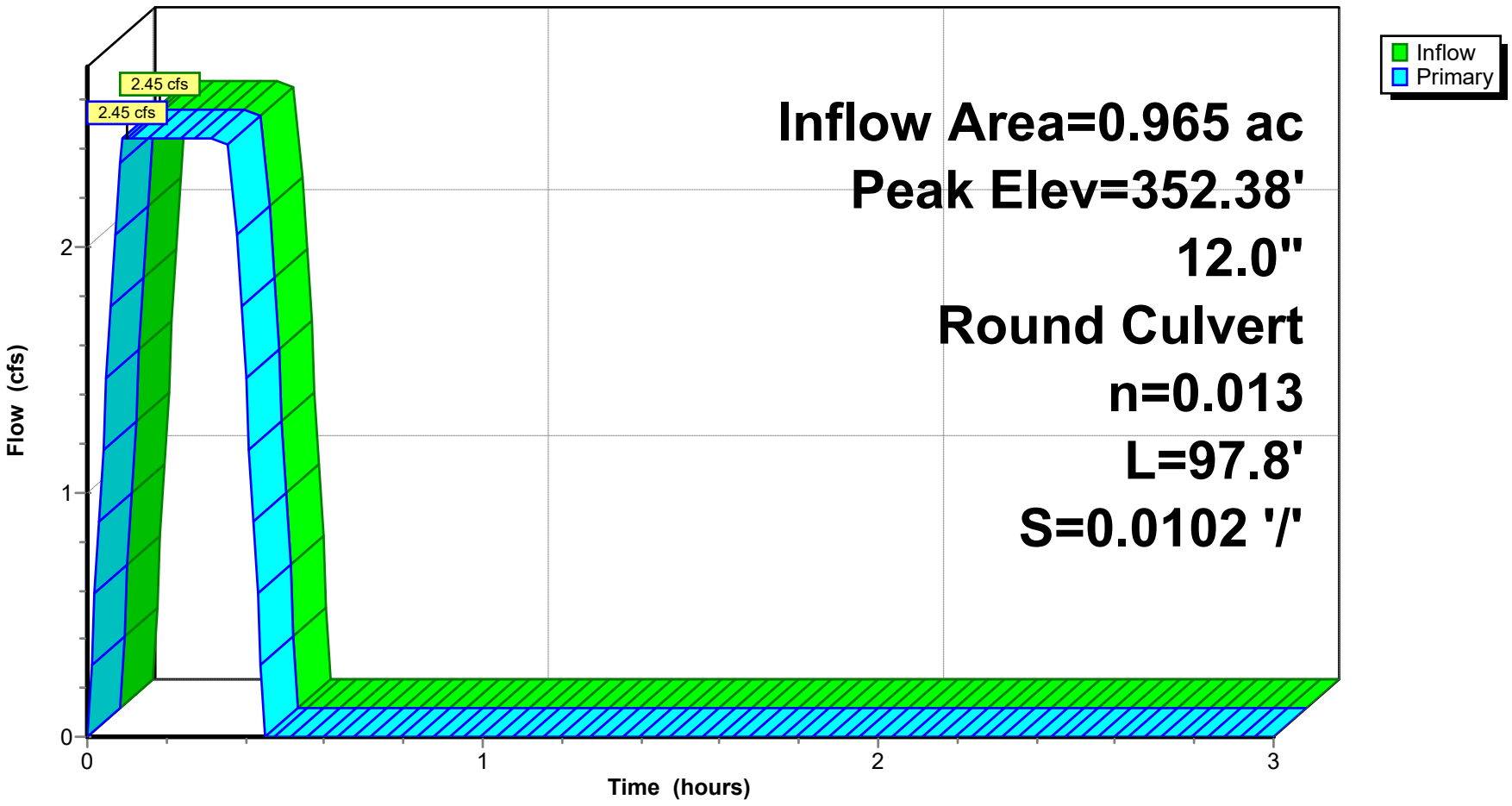
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 352.38' @ 0.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	351.53'	**12.0" Round RCP_ROUND 12"** L= 97.8' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 351.53' / 350.53' S= 0.0102 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf

Primary OutFlow Max=2.45 cfs @ 0.10 hrs HW=352.38' (Free Discharge)
1=RCP_ROUND 12" (Barrel Controls 2.45 cfs @ 4.62 fps)

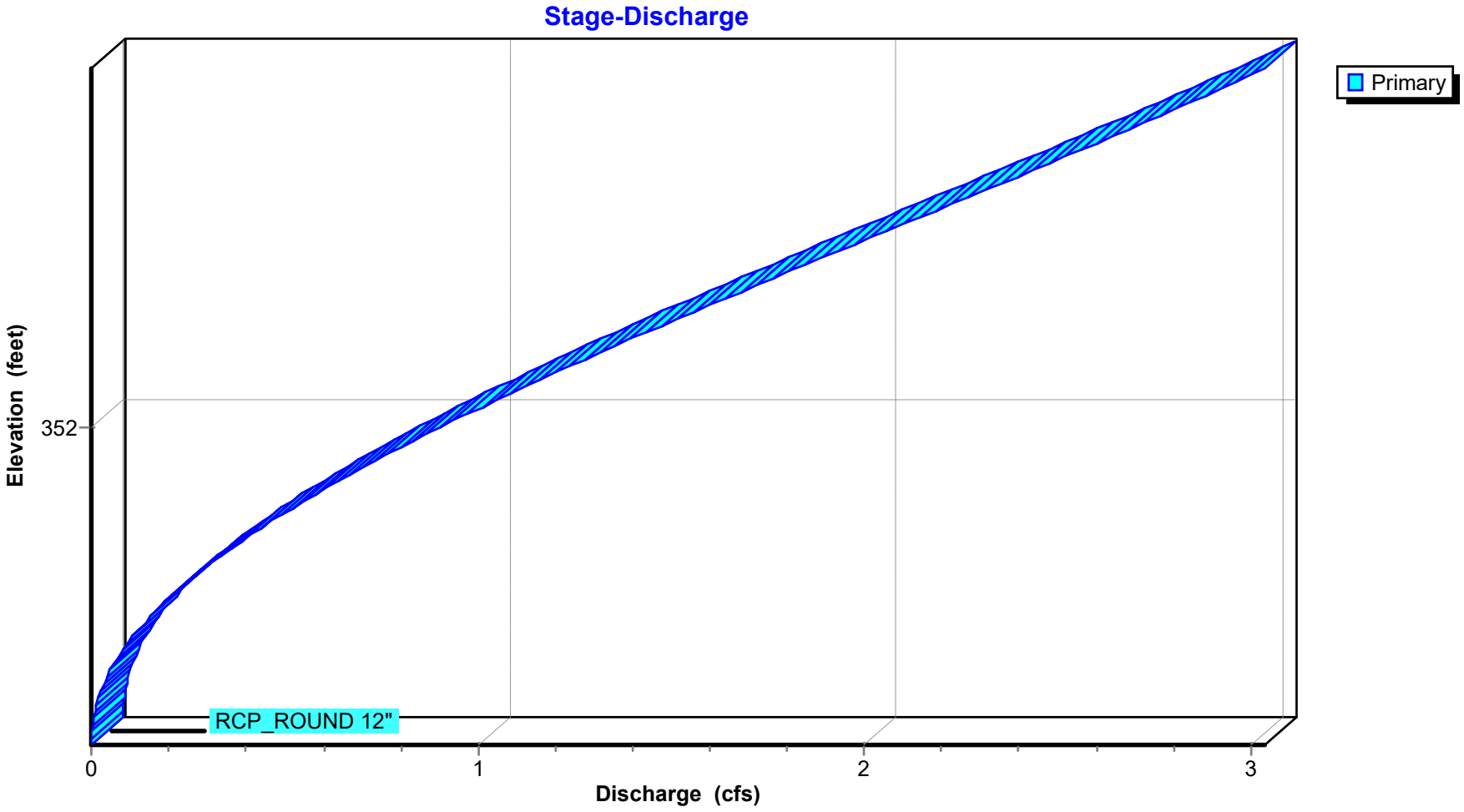
Pond CI-C4: CURB INLET C4

Hydrograph



Pond CI-C4: CURB INLET C4

Stage-Discharge



Stage-Area-Storage for Pond CI-C4: CURB INLET C4

Elevation (feet)	Storage (acre-feet)
351.53	**0.000**
351.54	0.000
351.55	0.000
351.56	0.000
351.57	0.000
351.58	0.000
351.59	0.000
351.60	0.000
351.61	0.000
351.62	0.000
351.63	0.000
351.64	0.000
351.65	0.000
351.66	0.000
351.67	0.000
351.68	0.000
351.69	0.000
351.70	0.000
351.71	0.000
351.72	0.000
351.73	0.000
351.74	0.000
351.75	0.000
351.76	0.000
351.77	0.000
351.78	0.000
351.79	0.000
351.80	0.000
351.81	0.000
351.82	0.000
351.83	0.000
351.84	0.000
351.85	0.000
351.86	0.000
351.87	0.000
351.88	0.000
351.89	0.000
351.90	0.000
351.91	0.000
351.92	0.000
351.93	0.000
351.94	0.000
351.95	0.000
351.96	0.000
351.97	0.000
351.98	0.000
351.99	0.000
352.00	0.000
352.01	0.000
352.02	0.000
352.03	0.000
352.04	0.000
352.05	0.000
352.06	0.000
352.07	0.000
352.08	0.000
352.09	0.000
352.10	0.000
352.11	0.000
352.12	0.000
352.13	0.000
352.14	0.000
352.15	0.000
352.16	0.000
352.17	0.000
352.18	0.000
352.19	0.000
352.20	0.000
352.21	0.000
352.22	0.000
352.23	0.000
352.24	0.000
352.25	0.000
352.26	0.000
352.27	0.000
352.28	0.000
352.29	0.000
352.30	0.000
352.31	0.000
352.32	0.000
352.33	0.000
352.34	0.000
352.35	0.000
352.36	0.000
352.37	0.000
352.38	0.000
352.39	0.000
352.40	0.000
352.41	0.000
352.42	0.000
352.43	0.000
352.44	0.000

Elevation (feet)	Storage (acre-feet)
352.45	0.000
352.46	0.000
352.47	0.000
352.48	0.000
352.49	0.000
352.50	0.000
352.51	0.000
352.52	0.000
352.53	0.000

Summary for Pond CI-C5: CURB INLET C5

Inflow Area = 1.429 ac, 0.00% Impervious, Inflow Depth = 0.90" for 10-yr event
Inflow = 3.53 cfs @ 0.10 hrs, Volume= 0.107 af
Outflow = 3.53 cfs @ 0.09 hrs, Volume= 0.107 af, Atten= 0%, Lag= 0.0 min
Primary = 3.53 cfs @ 0.09 hrs, Volume= 0.107 af
Routed to Link POST-DEV : Post-Development

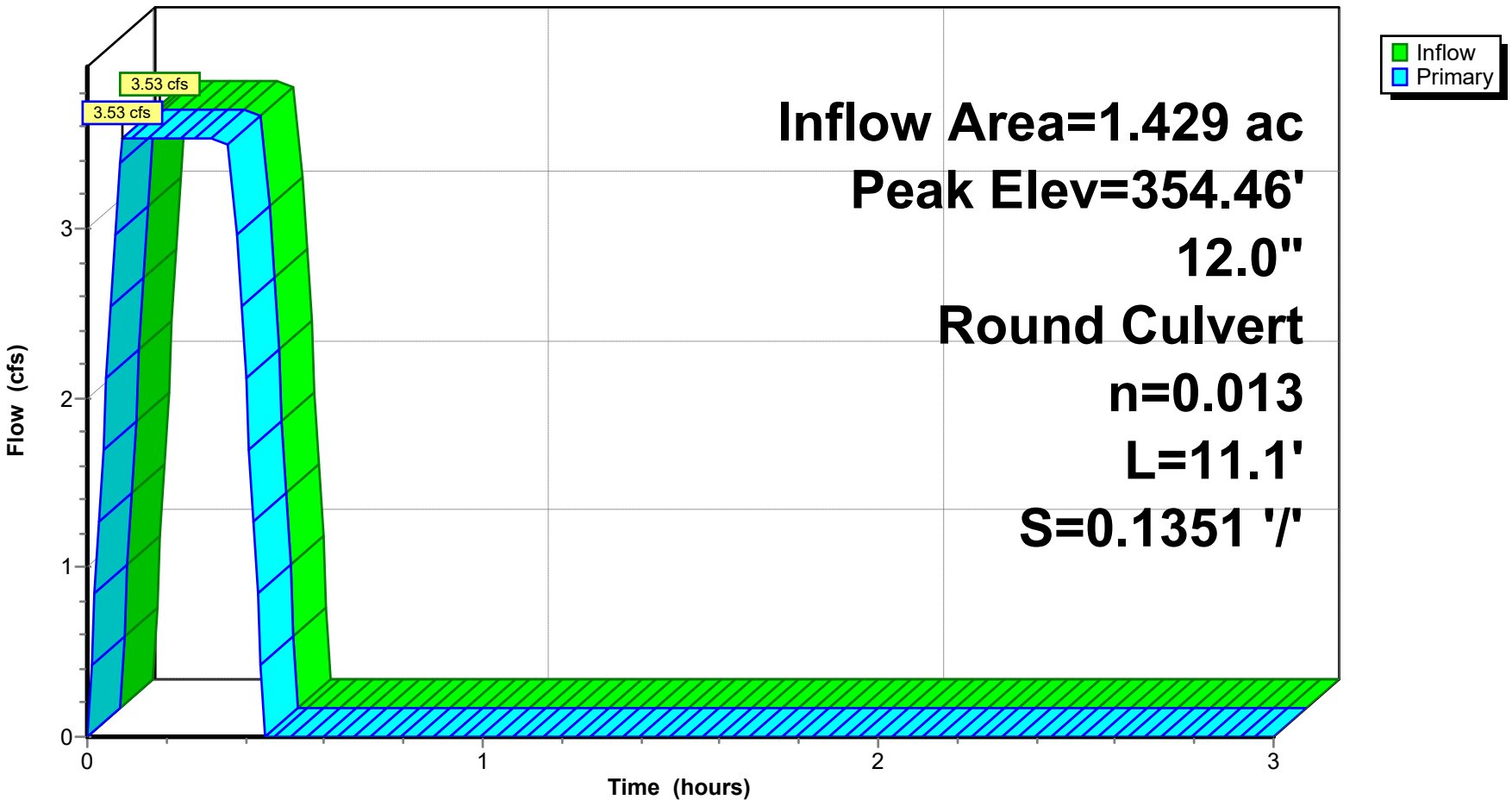
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 354.46' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	353.50'	**12.0" Round RCP_ROUND 12"** L= 11.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 353.50' / 352.00' S= 0.1351 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf

Primary OutFlow Max=3.53 cfs @ 0.09 hrs HW=354.46' (Free Discharge)
1=RCP_ROUND 12" (Inlet Controls 3.53 cfs @ 4.55 fps)

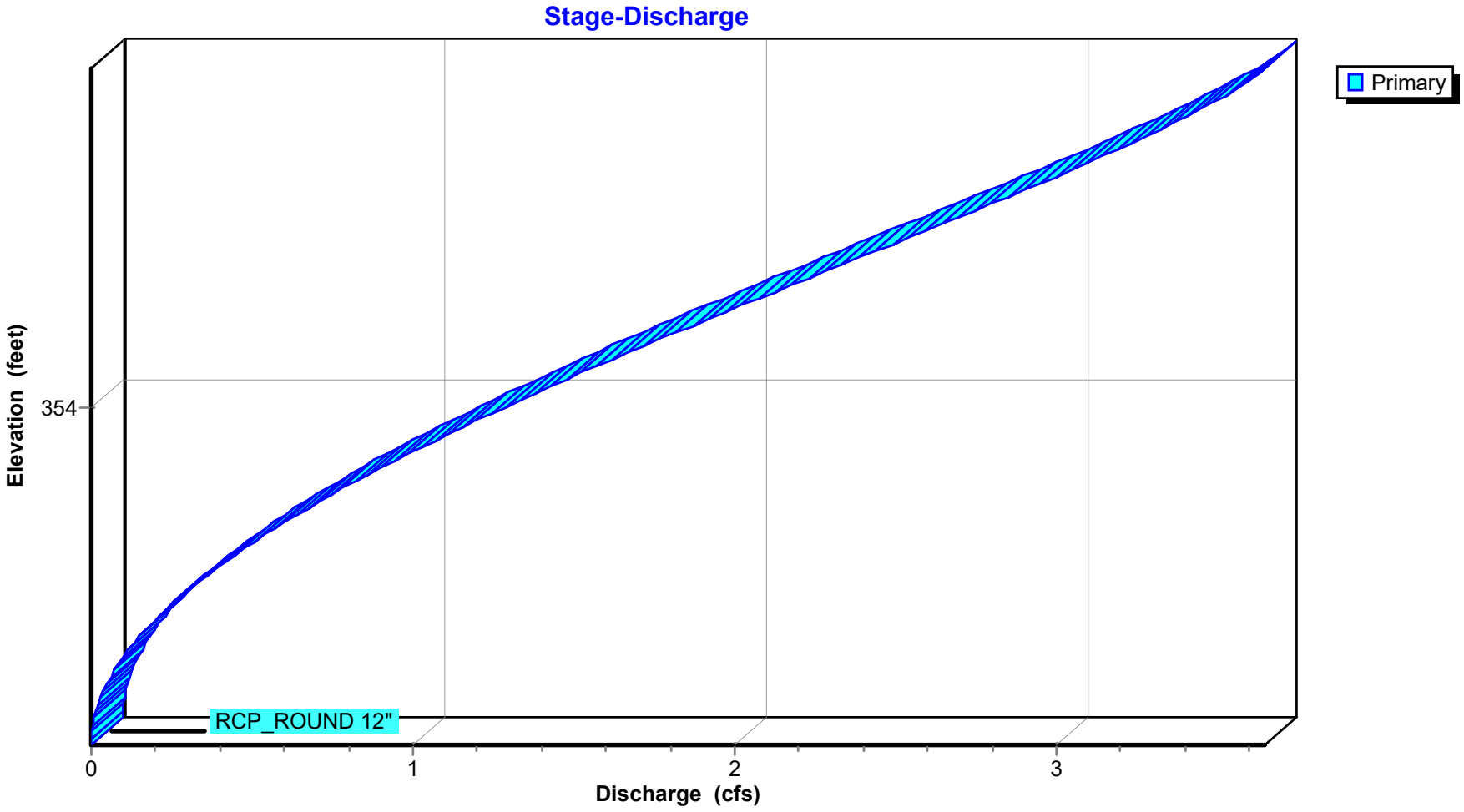
Pond CI-C5: CURB INLET C5

Hydrograph



Pond CI-C5: CURB INLET C5

Stage-Discharge



Stage-Area-Storage for Pond CI-C5: CURB INLET C5

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
353.50	**0.000**	354.42	0.000
353.51	0.000	354.43	0.000
353.52	0.000	354.44	0.000
353.53	0.000	354.45	0.000
353.54	0.000	354.46	0.000
353.55	0.000	354.47	0.000
353.56	0.000	354.48	0.000
353.57	0.000	354.49	0.000
353.58	0.000	354.50	0.000
353.59	0.000		
353.60	0.000		
353.61	0.000		
353.62	0.000		
353.63	0.000		
353.64	0.000		
353.65	0.000		
353.66	0.000		
353.67	0.000		
353.68	0.000		
353.69	0.000		
353.70	0.000		
353.71	0.000		
353.72	0.000		
353.73	0.000		
353.74	0.000		
353.75	0.000		
353.76	0.000		
353.77	0.000		
353.78	0.000		
353.79	0.000		
353.80	0.000		
353.81	0.000		
353.82	0.000		
353.83	0.000		
353.84	0.000		
353.85	0.000		
353.86	0.000		
353.87	0.000		
353.88	0.000		
353.89	0.000		
353.90	0.000		
353.91	0.000		
353.92	0.000		
353.93	0.000		
353.94	0.000		
353.95	0.000		
353.96	0.000		
353.97	0.000		
353.98	0.000		
353.99	0.000		
354.00	0.000		
354.01	0.000		
354.02	0.000		
354.03	0.000		
354.04	0.000		
354.05	0.000		
354.06	0.000		
354.07	0.000		
354.08	0.000		
354.09	0.000		
354.10	0.000		
354.11	0.000		
354.12	0.000		
354.13	0.000		
354.14	0.000		
354.15	0.000		
354.16	0.000		
354.17	0.000		
354.18	0.000		
354.19	0.000		
354.20	0.000		
354.21	0.000		
354.22	0.000		
354.23	0.000		
354.24	0.000		
354.25	0.000		
354.26	0.000		
354.27	0.000		
354.28	0.000		
354.29	0.000		
354.30	0.000		
354.31	0.000		
354.32	0.000		
354.33	0.000		
354.34	0.000		
354.35	0.000		
354.36	0.000		
354.37	0.000		
354.38	0.000		
354.39	0.000		
354.40	0.000		
354.41	0.000		

Summary for Pond CI-D1: CURB INLET D1

Inflow Area = 0.627 ac, 0.00% Impervious, Inflow Depth = 0.89" for 10-yr event
Inflow = 1.54 cfs @ 0.09 hrs, Volume= 0.047 af
Outflow = 1.54 cfs @ 0.09 hrs, Volume= 0.047 af, Atten= 0%, Lag= 0.0 min
Primary = 1.54 cfs @ 0.09 hrs, Volume= 0.047 af
Routed to Pond CI-C4 : CURB INLET C4

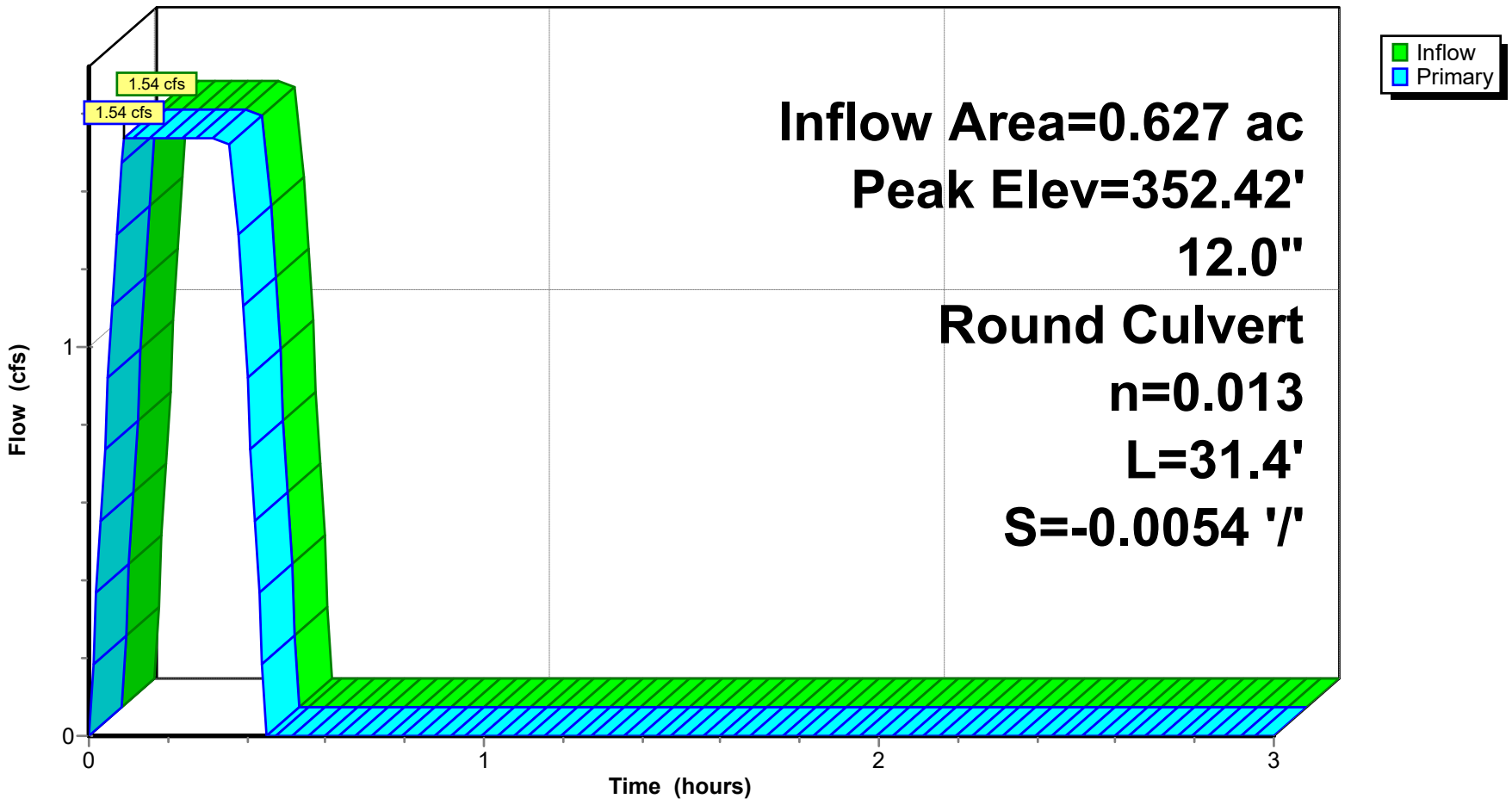
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 352.42' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	351.70'	**12.0" Round RCP_ROUND 12"** L= 31.4' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 351.53' / 351.70' S= -0.0054 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf

Primary OutFlow Max=1.54 cfs @ 0.09 hrs HW=352.42' (Free Discharge)
1=RCP_ROUND 12" (Barrel Controls 1.54 cfs @ 2.75 fps)

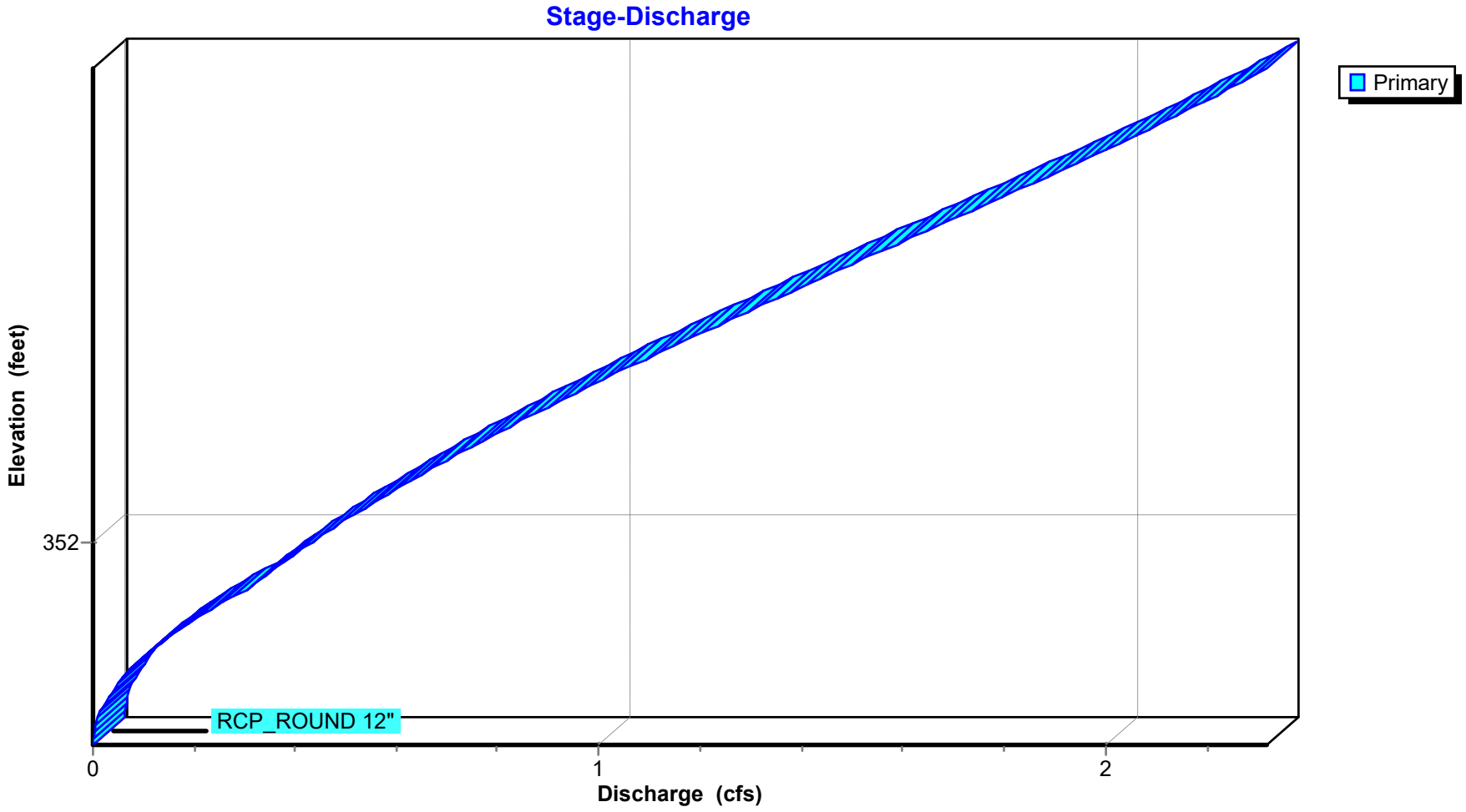
Pond CI-D1: CURB INLET D1

Hydrograph



Pond CI-D1: CURB INLET D1

Stage-Discharge



Stage-Area-Storage for Pond CI-D1: CURB INLET D1

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
351.70	**0.000**	352.62	0.000
351.71	0.000	352.63	0.000
351.72	0.000	352.64	0.000
351.73	0.000	352.65	0.000
351.74	0.000	352.66	0.000
351.75	0.000	352.67	0.000
351.76	0.000	352.68	0.000
351.77	0.000	352.69	0.000
351.78	0.000	352.70	0.000
351.79	0.000		
351.80	0.000		
351.81	0.000		
351.82	0.000		
351.83	0.000		
351.84	0.000		
351.85	0.000		
351.86	0.000		
351.87	0.000		
351.88	0.000		
351.89	0.000		
351.90	0.000		
351.91	0.000		
351.92	0.000		
351.93	0.000		
351.94	0.000		
351.95	0.000		
351.96	0.000		
351.97	0.000		
351.98	0.000		
351.99	0.000		
352.00	0.000		
352.01	0.000		
352.02	0.000		
352.03	0.000		
352.04	0.000		
352.05	0.000		
352.06	0.000		
352.07	0.000		
352.08	0.000		
352.09	0.000		
352.10	0.000		
352.11	0.000		
352.12	0.000		
352.13	0.000		
352.14	0.000		
352.15	0.000		
352.16	0.000		
352.17	0.000		
352.18	0.000		
352.19	0.000		
352.20	0.000		
352.21	0.000		
352.22	0.000		
352.23	0.000		
352.24	0.000		
352.25	0.000		
352.26	0.000		
352.27	0.000		
352.28	0.000		
352.29	0.000		
352.30	0.000		
352.31	0.000		
352.32	0.000		
352.33	0.000		
352.34	0.000		
352.35	0.000		
352.36	0.000		
352.37	0.000		
352.38	0.000		
352.39	0.000		
352.40	0.000		
352.41	0.000		
352.42	0.000		
352.43	0.000		
352.44	0.000		
352.45	0.000		
352.46	0.000		
352.47	0.000		
352.48	0.000		
352.49	0.000		
352.50	0.000		
352.51	0.000		
352.52	0.000		
352.53	0.000		
352.54	0.000		
352.55	0.000		
352.56	0.000		
352.57	0.000		
352.58	0.000		
352.59	0.000		
352.60	0.000		
352.61	0.000		

Summary for Pond JB-C3: JUNCTION BOX C3

Inflow Area = 0.247 ac, 0.00% Impervious, Inflow Depth = 0.92" for 10-yr event
Inflow = 0.62 cfs @ 0.09 hrs, Volume= 0.019 af
Outflow = 0.62 cfs @ 0.10 hrs, Volume= 0.019 af, Atten= 0%, Lag= 0.6 min
Primary = 0.62 cfs @ 0.10 hrs, Volume= 0.019 af
Routed to Pond CI-C4 : CURB INLET C4

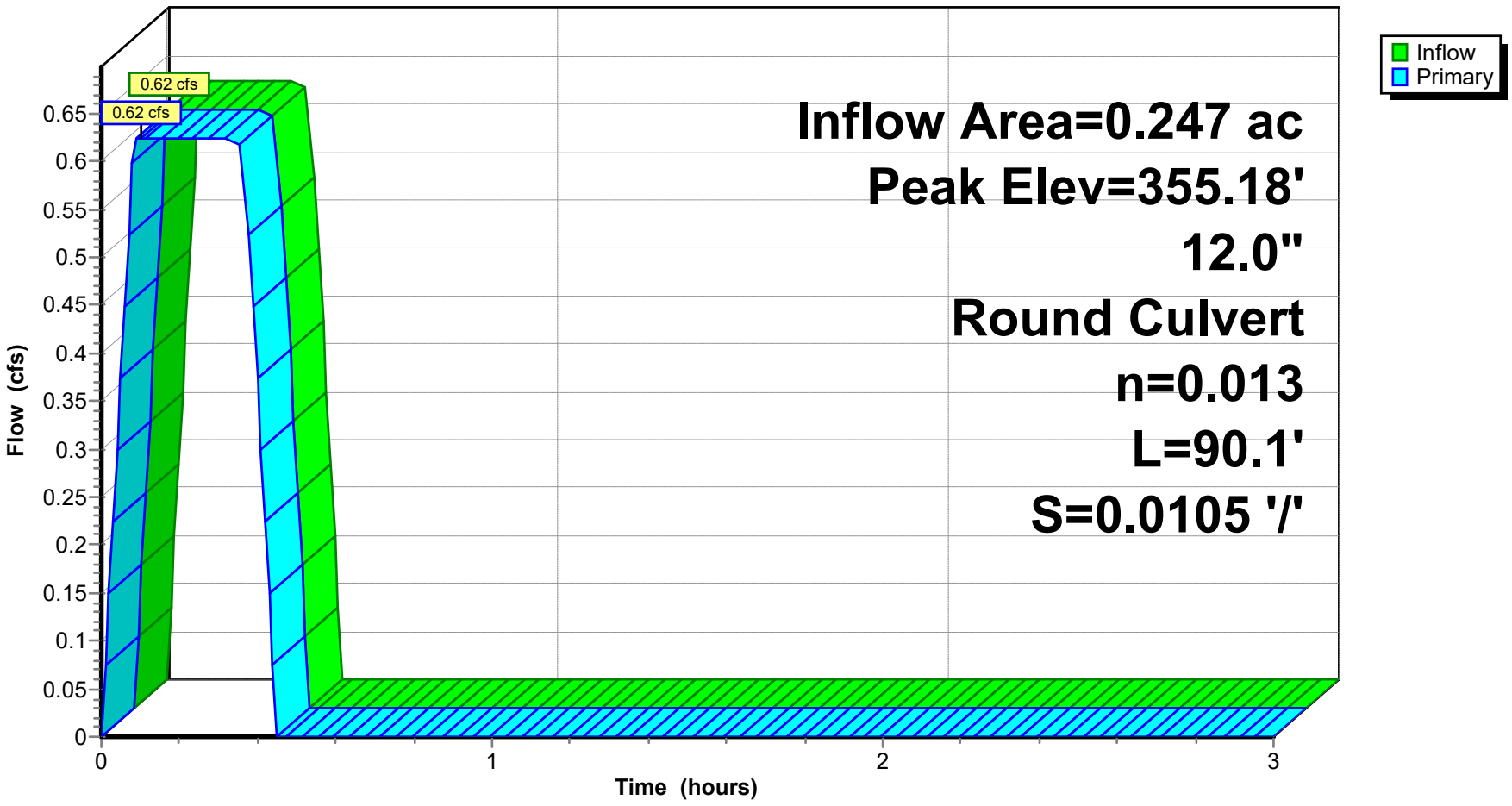
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 355.18' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	354.80'	**12.0" Round RCP_ROUND 12"** L= 90.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 354.80' / 353.85' S= 0.0105 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf

Primary OutFlow Max=0.62 cfs @ 0.10 hrs HW=355.18' (Free Discharge)
1=RCP_ROUND 12" (Barrel Controls 0.62 cfs @ 3.34 fps)

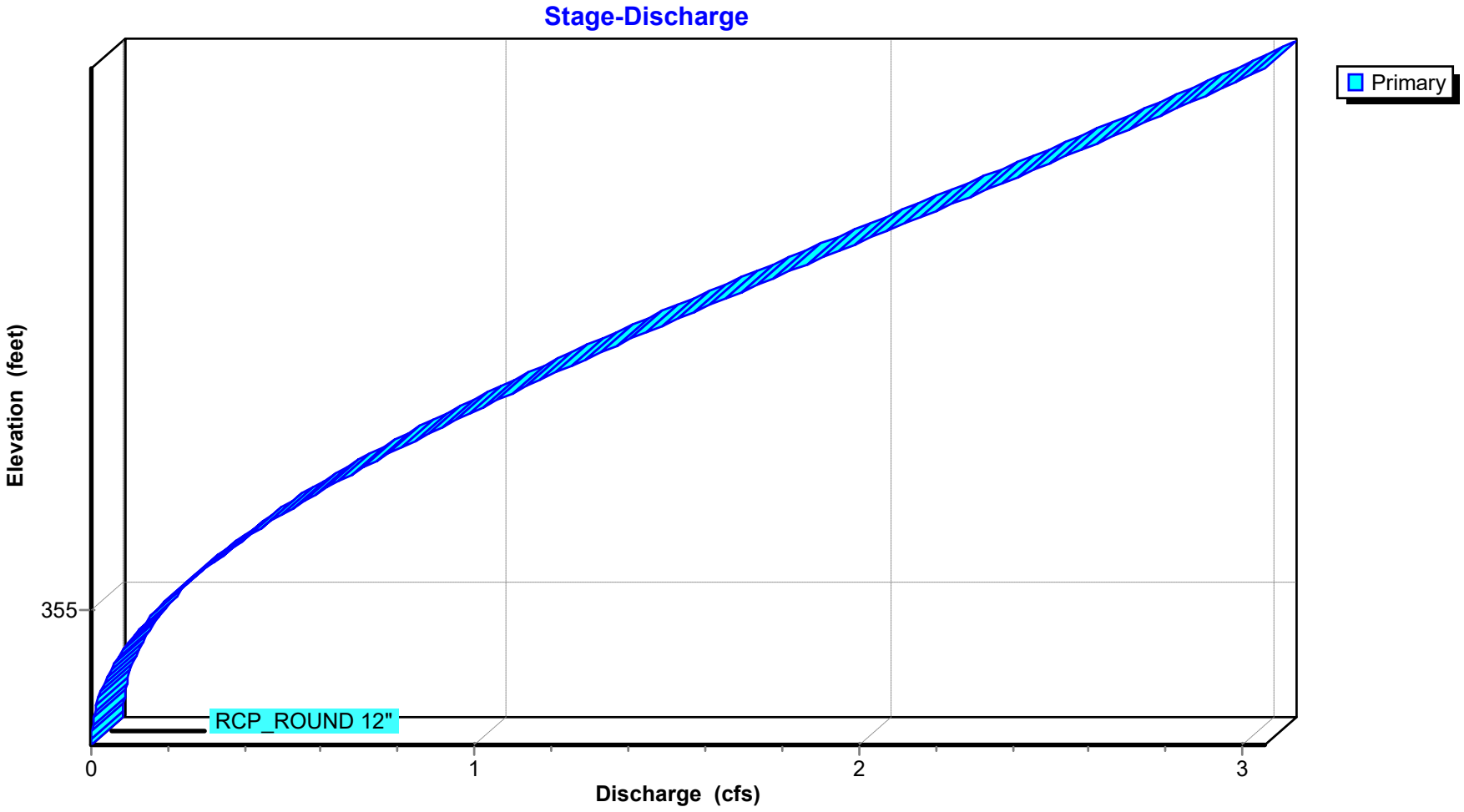
Pond JB-C3: JUNCTION BOX C3

Hydrograph



Pond JB-C3: JUNCTION BOX C3

Stage-Discharge



Stage-Area-Storage for Pond JB-C3: JUNCTION BOX C3

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
354.80	**0.000**	355.72	0.000
354.81	0.000	355.73	0.000
354.82	0.000	355.74	0.000
354.83	0.000	355.75	0.000
354.84	0.000	355.76	0.000
354.85	0.000	355.77	0.000
354.86	0.000	355.78	0.000
354.87	0.000	355.79	0.000
354.88	0.000	355.80	0.000
354.89	0.000		
354.90	0.000		
354.91	0.000		
354.92	0.000		
354.93	0.000		
354.94	0.000		
354.95	0.000		
354.96	0.000		
354.97	0.000		
354.98	0.000		
354.99	0.000		
355.00	0.000		
355.01	0.000		
355.02	0.000		
355.03	0.000		
355.04	0.000		
355.05	0.000		
355.06	0.000		
355.07	0.000		
355.08	0.000		
355.09	0.000		
355.10	0.000		
355.11	0.000		
355.12	0.000		
355.13	0.000		
355.14	0.000		
355.15	0.000		
355.16	0.000		
355.17	0.000		
355.18	0.000		
355.19	0.000		
355.20	0.000		
355.21	0.000		
355.22	0.000		
355.23	0.000		
355.24	0.000		
355.25	0.000		
355.26	0.000		
355.27	0.000		
355.28	0.000		
355.29	0.000		
355.30	0.000		
355.31	0.000		
355.32	0.000		
355.33	0.000		
355.34	0.000		
355.35	0.000		
355.36	0.000		
355.37	0.000		
355.38	0.000		
355.39	0.000		
355.40	0.000		
355.41	0.000		
355.42	0.000		
355.43	0.000		
355.44	0.000		
355.45	0.000		
355.46	0.000		
355.47	0.000		
355.48	0.000		
355.49	0.000		
355.50	0.000		
355.51	0.000		
355.52	0.000		
355.53	0.000		
355.54	0.000		
355.55	0.000		
355.56	0.000		
355.57	0.000		
355.58	0.000		
355.59	0.000		
355.60	0.000		
355.61	0.000		
355.62	0.000		
355.63	0.000		
355.64	0.000		
355.65	0.000		
355.66	0.000		
355.67	0.000		
355.68	0.000		
355.69	0.000		
355.70	0.000		
355.71	0.000		

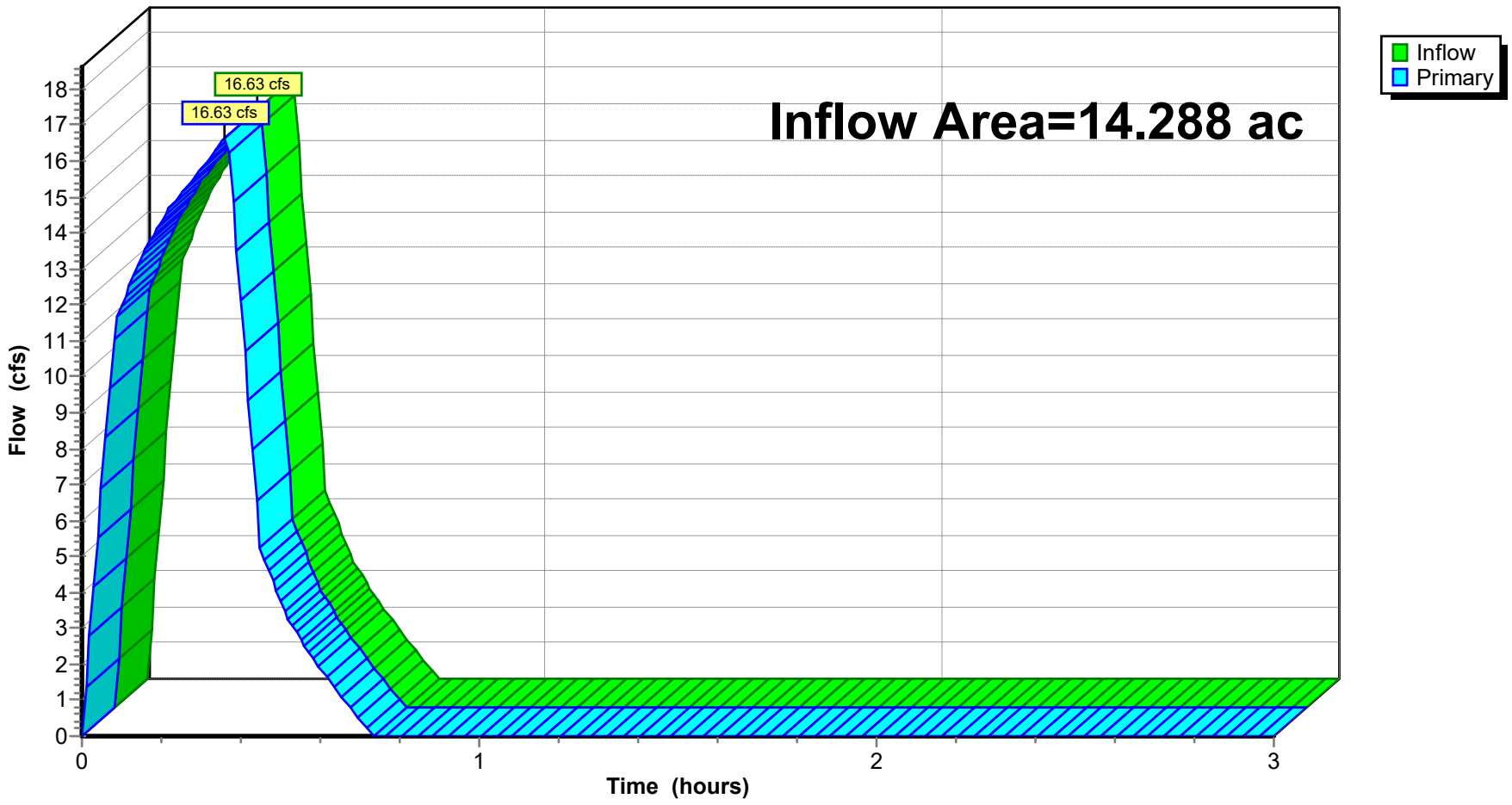
Summary for Link POST-DEV: Post-Development

Inflow Area = 14.288 ac, 0.00% Impervious, Inflow Depth = 0.42" for 10-yr event
Inflow = 16.63 cfs @ 0.36 hrs, Volume= 0.506 af
Primary = 16.63 cfs @ 0.36 hrs, Volume= 0.506 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Link POST-DEV: Post-Development

Hydrograph



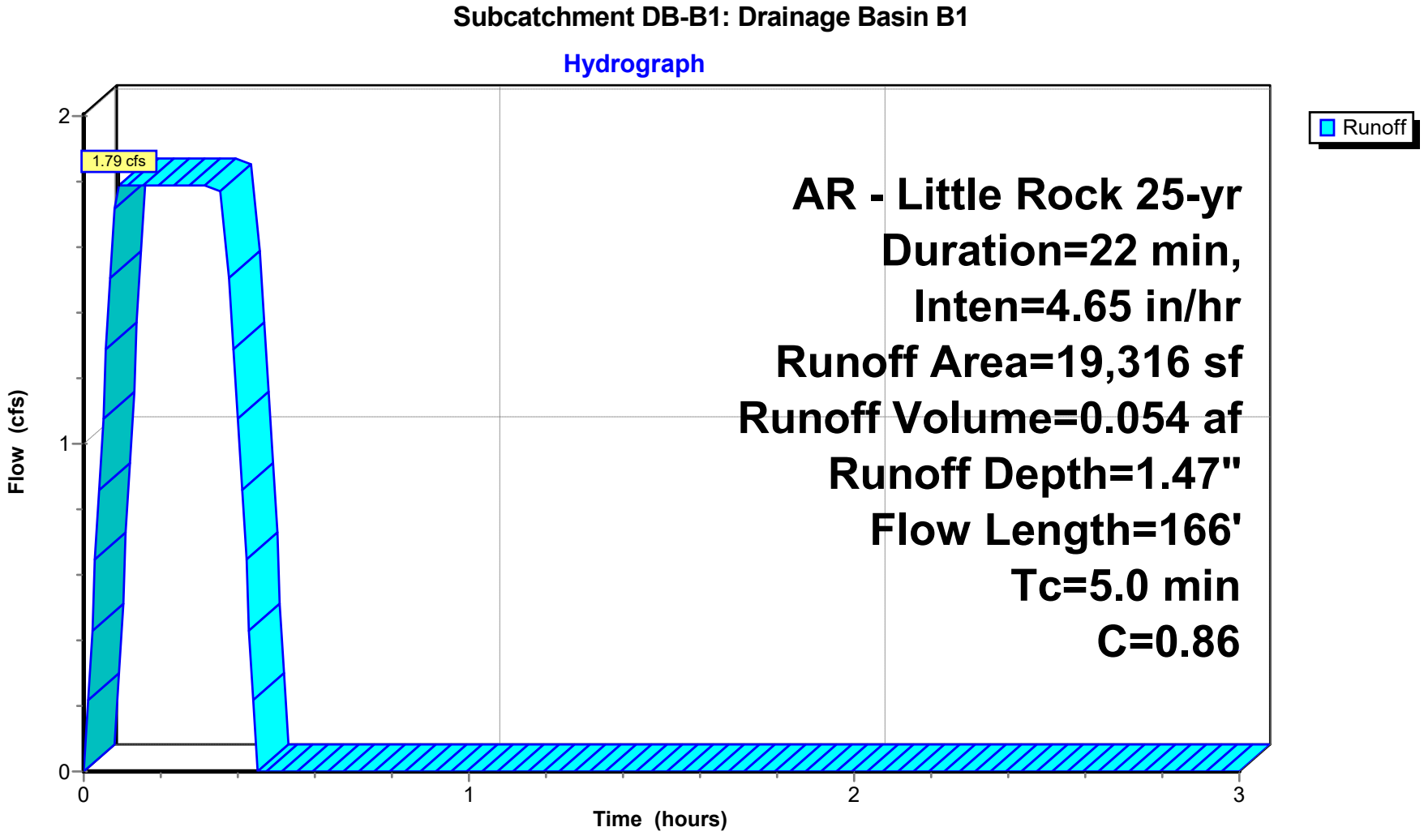
Summary for Subcatchment DB-B1: Drainage Basin B1

Runoff = 1.79 cfs @ 0.09 hrs, Volume= 0.054 af, Depth= 1.47"
Routed to Pond CI-A1 : CURB INLET A1

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 25-yr Duration=22 min, Inten=4.65 in/hr

Area (sf)	C	Description
1,941	0.30	Sandy Soil 2-7% per manual
17,375	0.92	Paved Areas
19,316	0.86	Weighted Average
19,316		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.5	33	0.0200	0.16		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
0.6	67	0.0350	1.82		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.5	66	0.0100	2.03		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
0.4					**Direct Entry, Minimum Adjustment**
5.0	166	Total			



Summary for Subcatchment DB-B10: Drainage Basin B10

Runoff = 0.33 cfs @ 0.09 hrs, Volume= 0.010 af, Depth= 1.31"
Routed to Pond CI-C4 : CURB INLET C4

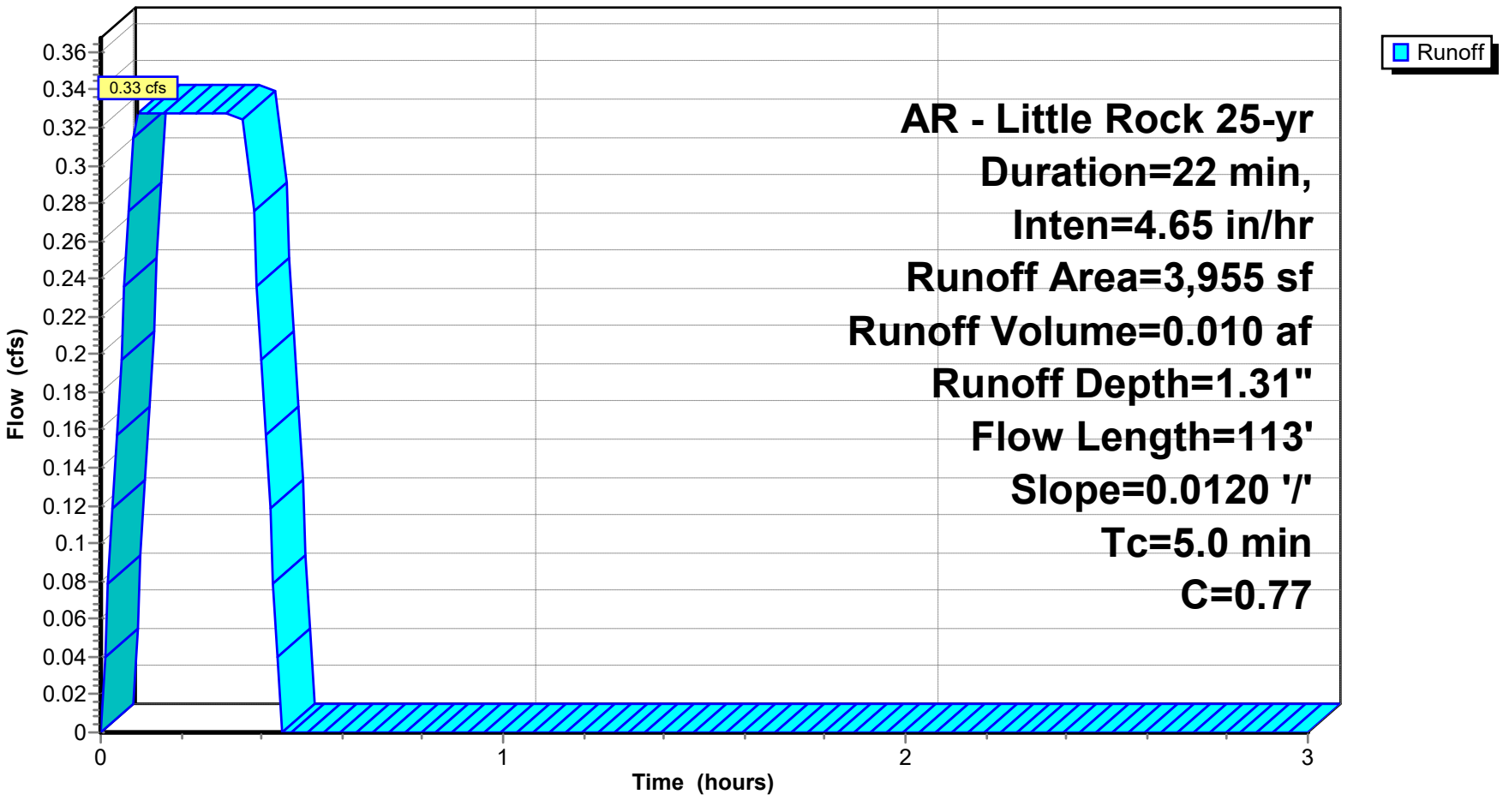
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 25-yr Duration=22 min, Inten=4.65 in/hr

Area (sf)	C	Description
959	0.30	Sandy Soil 2-7% per manual
2,996	0.92	Paved Areas
3,955	0.77	Weighted Average
3,955		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.4	113	0.0120	1.32		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
3.6					**Direct Entry, Minimum Adjustment**
5.0	113	Total			

Subcatchment DB-B10: Drainage Basin B10

Hydrograph



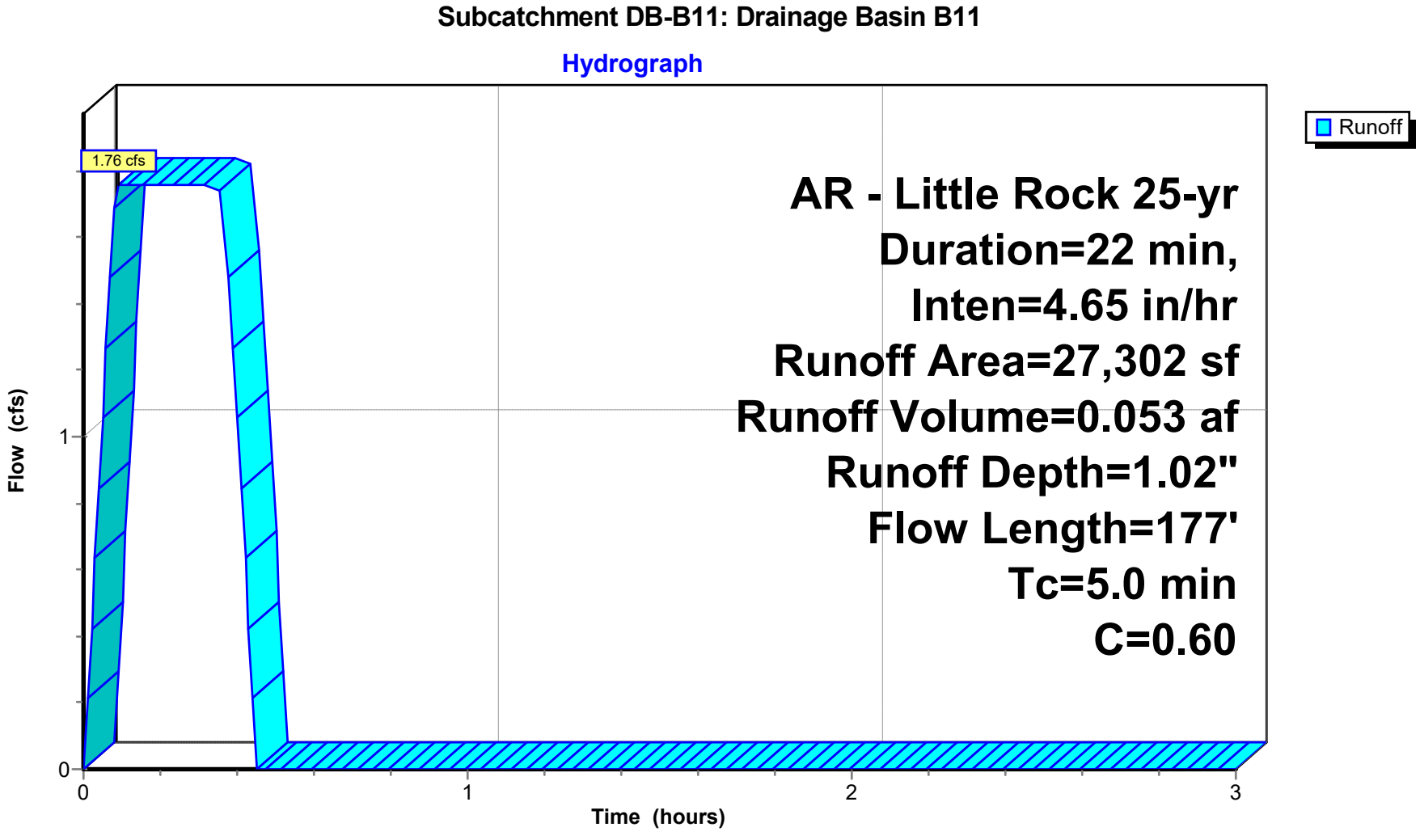
Summary for Subcatchment DB-B11: Drainage Basin B11

Runoff = 1.76 cfs @ 0.09 hrs, Volume= 0.053 af, Depth= 1.02"
Routed to Pond CI-D1 : CURB INLET D1

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 25-yr Duration=22 min, Inten=4.65 in/hr

Area (sf)	C	Description
15,547	0.35	Sandy Soil 2-7% per manual
11,755	0.92	Paved Areas
27,302	0.60	Weighted Average
27,302		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.2	65	0.3300	4.44		**Sheet Flow, Roof** Smooth surfaces n= 0.011 P2= 4.20"
0.2	69	0.1750	6.27		**Shallow Concentrated Flow, Greenspace** Grassed Waterway Kv= 15.0 fps
0.2	43	0.0500	4.54		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
4.4					**Direct Entry, Minimum Adjustment**
5.0	177	Total			



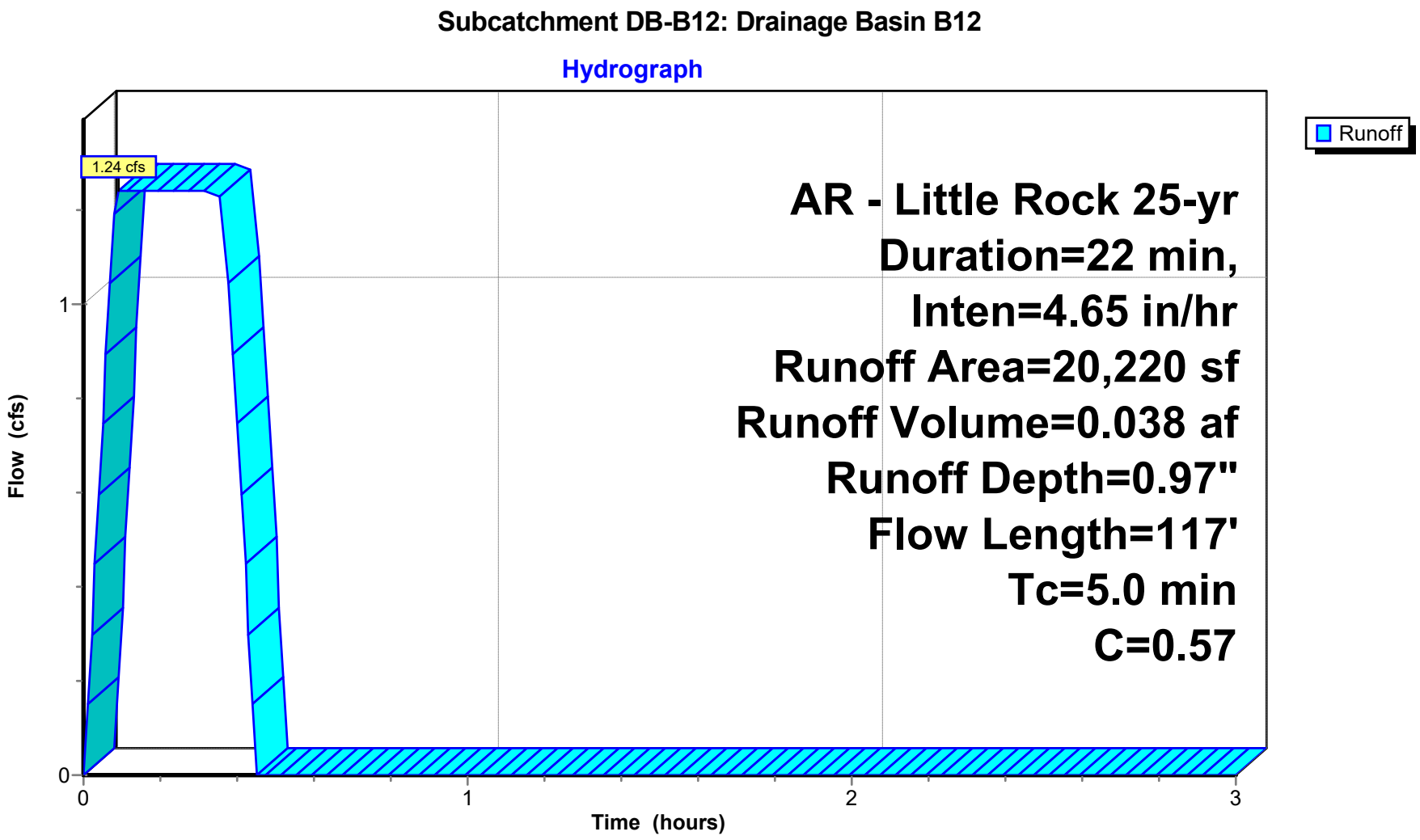
Summary for Subcatchment DB-B12: Drainage Basin B12

Runoff = 1.24 cfs @ 0.09 hrs, Volume= 0.038 af, Depth= 0.97"
Routed to Pond CI-C5 : CURB INLET C5

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 25-yr Duration=22 min, Inten=4.65 in/hr

Area (sf)	C	Description
11,502	0.30	Sandy Soil 2-7% per manual
8,718	0.92	Paved Areas
20,220	0.57	Weighted Average
20,220		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.0	26	0.0500	0.21		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
1.5	38	0.2360	0.43		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
1.1	28	0.2390	0.41		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
0.4	25	0.0180	1.15		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
5.0	117	Total			



Summary for Subcatchment DB-B13: DRAINAGE BASIN B13

Runoff = 5.80 cfs @ 0.37 hrs, Volume= 0.177 af, Depth= 0.23"
Routed to Link POST-DEV : Post-Development

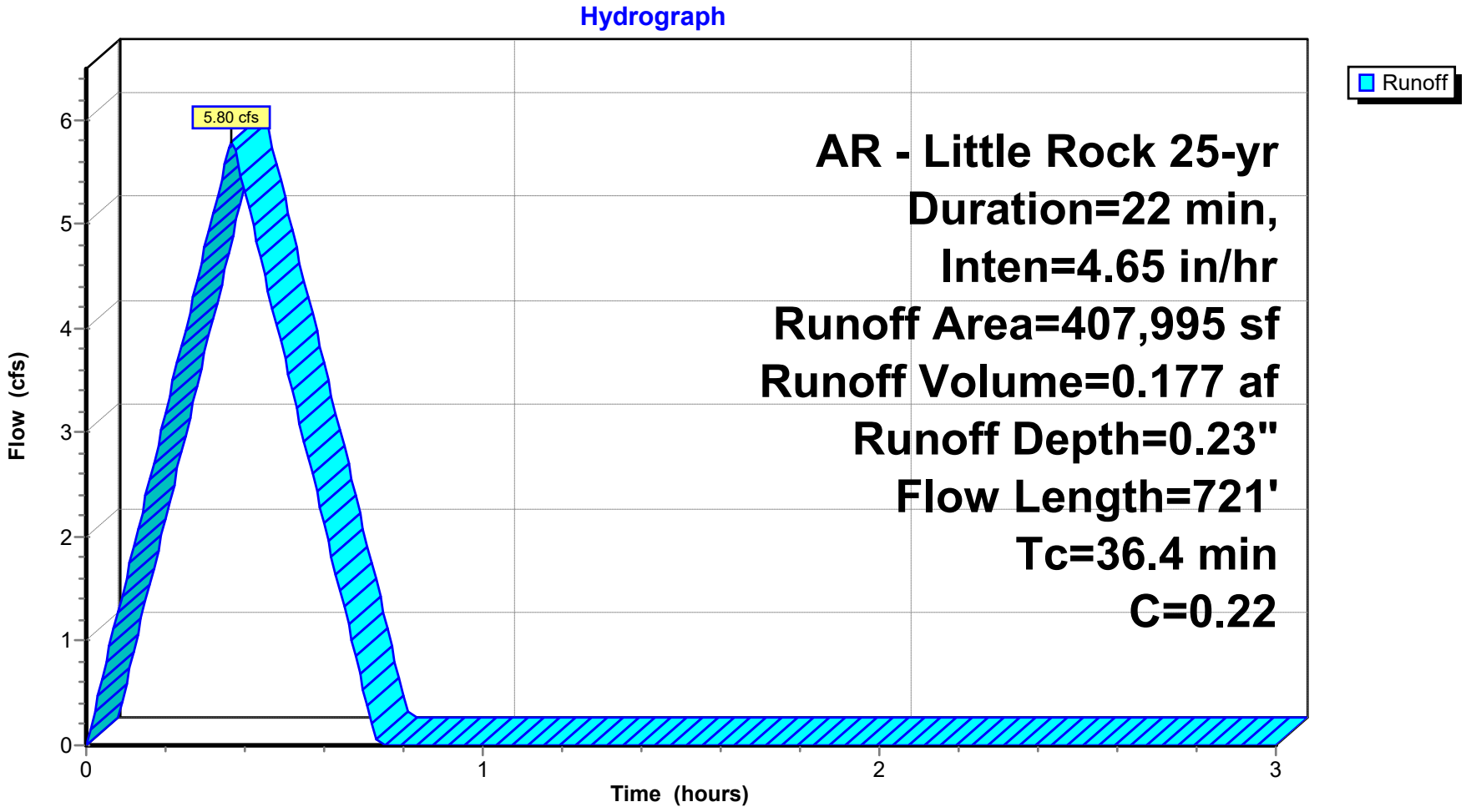
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 25-yr Duration=22 min, Inten=4.65 in/hr

Area (sf)	C	Description
407,995	0.22	Sandy Soil 2-7% Per Manual
407,995		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.5	67	0.6600	0.73		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
1.2	46	0.5900	0.65		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
3.2	147	0.5100	0.77		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
1.8	63	0.3800	0.58		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
8.5	70	0.0100	0.14		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
4.8	163	0.2200	0.56		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
2.4	65	0.2000	0.45		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
6.3	48	0.0100	0.13		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
6.7	52	0.0100	0.13		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
36.4	721	Total			

Subcatchment DB-B13: DRAINAGE BASIN B13

Hydrograph



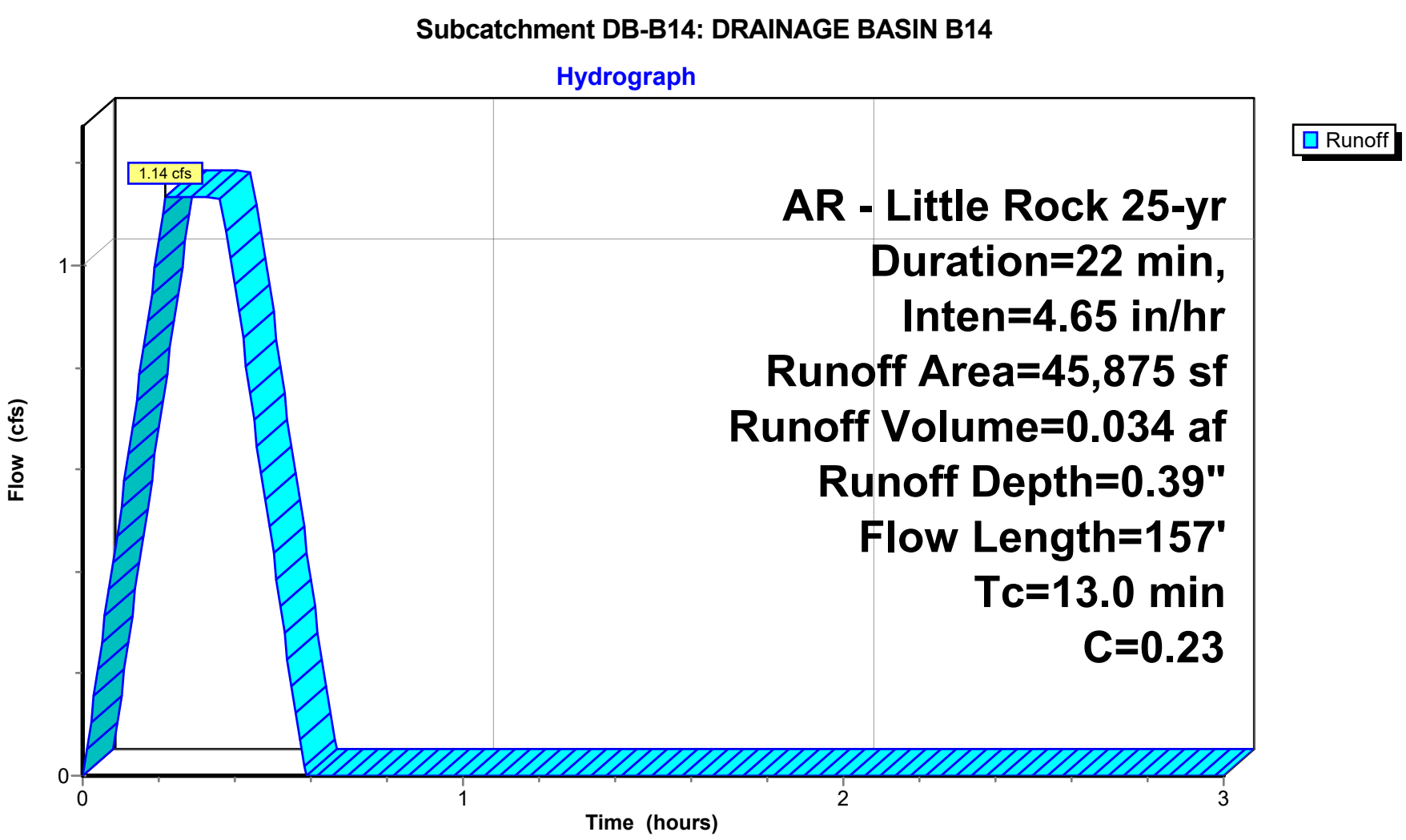
Summary for Subcatchment DB-B14: DRAINAGE BASIN B14

Runoff = 1.14 cfs @ 0.22 hrs, Volume= 0.034 af, Depth= 0.39"
Routed to Link POST-DEV : Post-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 25-yr Duration=22 min, Inten=4.65 in/hr

Area (sf)	C	Description
45,016	0.22	Sandy Soil 2-7% Per Manual
859	0.92	Paved Areas
45,875	0.23	Weighted Average
45,875		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.5	15	0.0100	0.10		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
5.2	78	0.0420	0.25		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
2.8	38	0.0480	0.23		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
2.5	26	0.0280	0.17		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
13.0	157	Total			



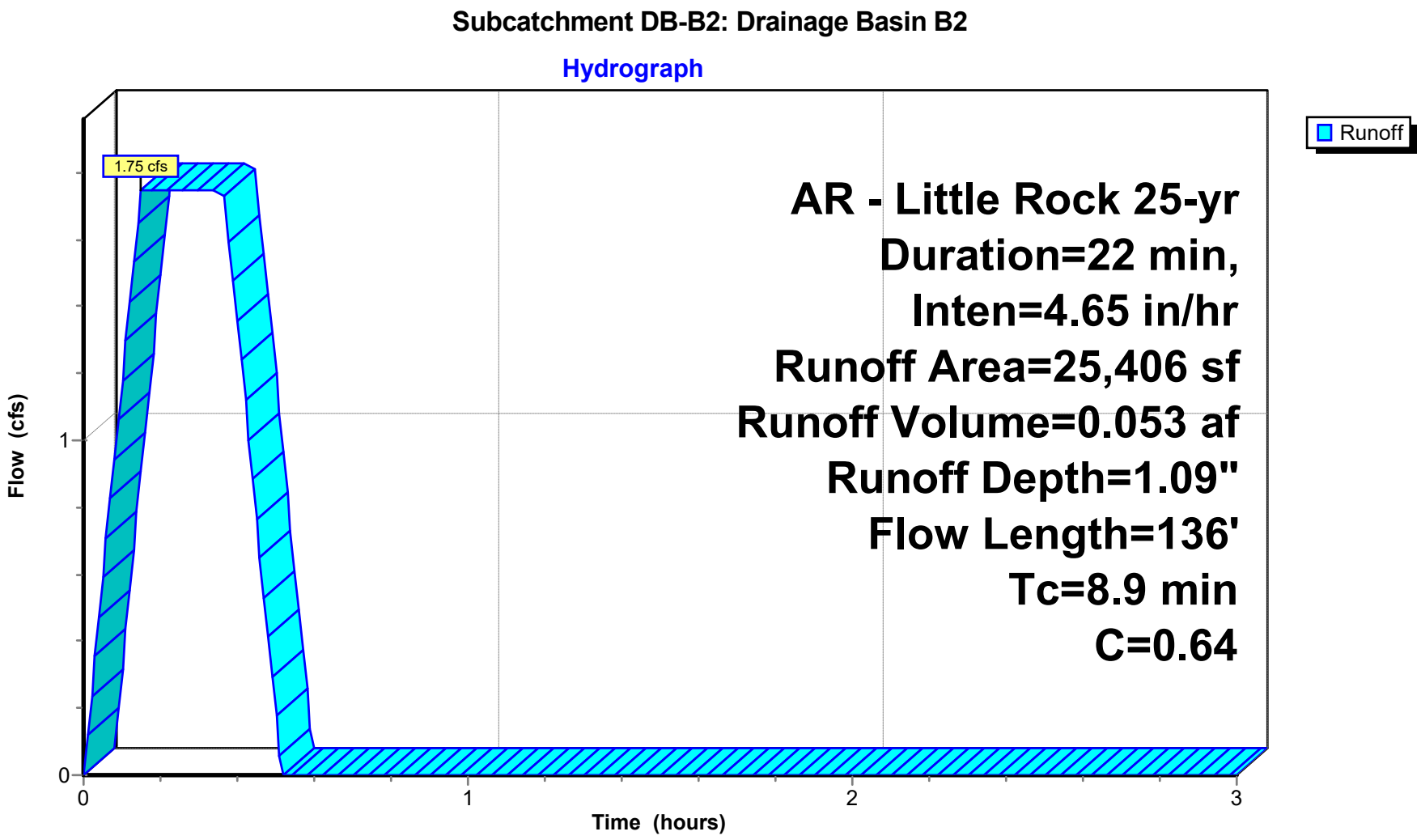
Summary for Subcatchment DB-B2: Drainage Basin B2

Runoff = 1.75 cfs @ 0.15 hrs, Volume= 0.053 af, Depth= 1.09"
Routed to Pond CI-A2 : CURB INLET A2

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 25-yr Duration=22 min, Inten=4.65 in/hr

Area (sf)	C	Description
11,388	0.30	Sandy Soil 2-7% per manual
14,018	0.92	Paved Areas
25,406	0.64	Weighted Average
25,406		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	57	0.0100	0.13		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
0.8	19	0.2480	0.38		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
0.2	14	0.0150	0.95		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.3	34	0.0600	1.97		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.2	12	0.0350	1.29		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.2					**Direct Entry, Minimum Adjustment**
8.9	136	Total			



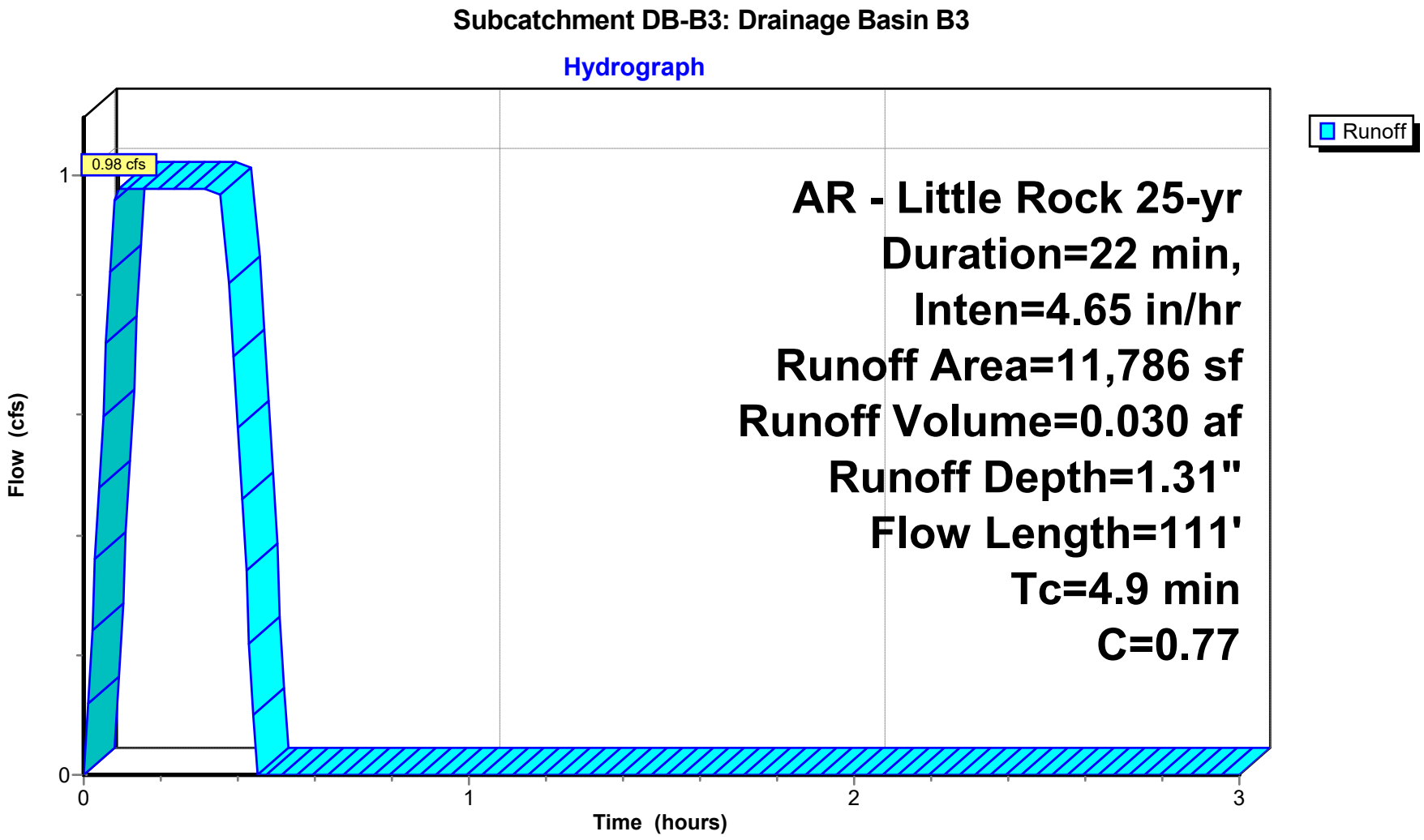
Summary for Subcatchment DB-B3: Drainage Basin B3

Runoff = 0.98 cfs @ 0.09 hrs, Volume= 0.030 af, Depth= 1.31"
Routed to Pond CI-A3 : CURB INLET A3

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 25-yr Duration=22 min, Inten=4.65 in/hr

Area (sf)	C	Description
2,920	0.30	Sandy Soil 2-7% per manual
8,866	0.92	Paved Areas
11,786	0.77	Weighted Average
11,786		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	19	0.2500	0.38		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
0.2	16	0.0290	1.27		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.6	38	0.0100	0.98		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.3	38	0.0100	2.03		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
3.0					**Direct Entry, Minimum Adjustment**
4.9	111	Total			



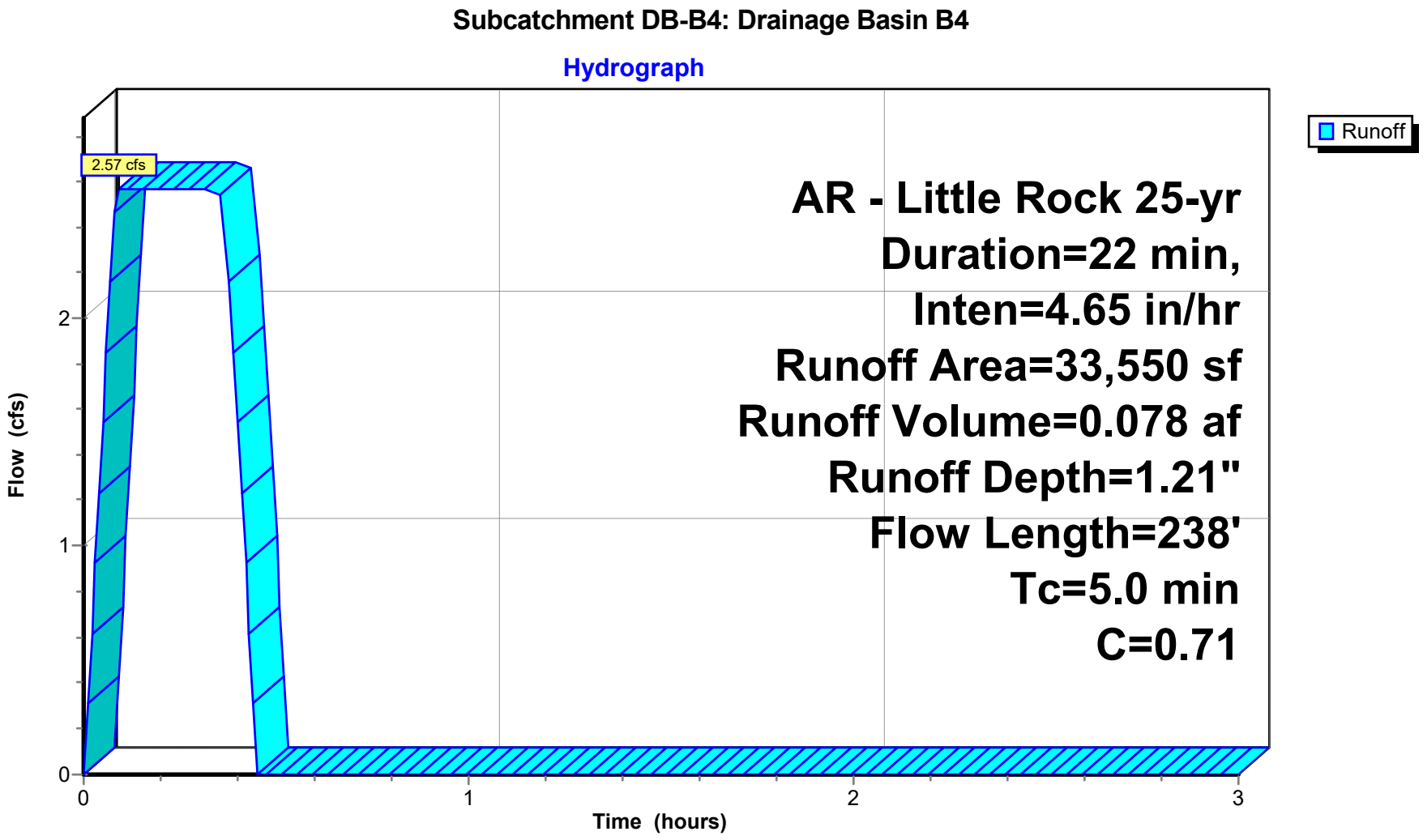
Summary for Subcatchment DB-B4: Drainage Basin B4

Runoff = 2.57 cfs @ 0.09 hrs, Volume= 0.078 af, Depth= 1.21"
Routed to Pond CI-A4 : CURB INLET A4

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 25-yr Duration=22 min, Inten=4.65 in/hr

Area (sf)	C	Description
11,568	0.30	Sandy Soil 2-7% per manual
21,982	0.92	Paved Areas
33,550	0.71	Weighted Average
33,550		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.4	48	0.0530	2.01		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.3	25	0.0310	1.42		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.6	14	0.0020	0.42		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.9	66	0.0130	1.22		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.4	59	0.0120	2.22		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
0.5	19	0.0010	0.64		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
0.0	7	0.0700	5.37		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
1.9					**Direct Entry, Minimum Adjustment**
5.0	238	Total			



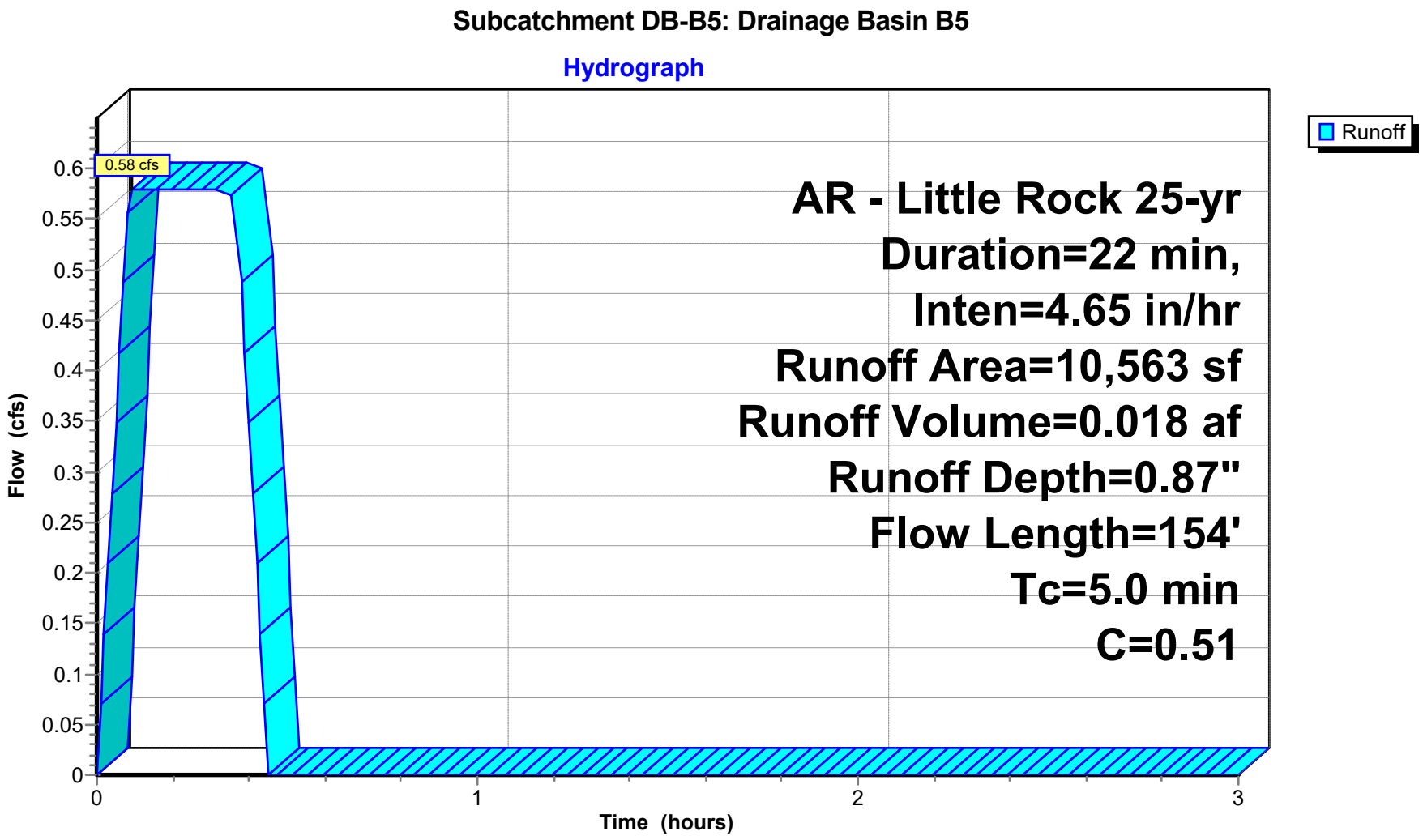
Summary for Subcatchment DB-B5: Drainage Basin B5

Runoff = 0.58 cfs @ 0.09 hrs, Volume= 0.018 af, Depth= 0.87"
Routed to Pond CI-A5 : CURB INLET A5

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 25-yr Duration=22 min, Inten=4.65 in/hr

Area (sf)	C	Description
6,980	0.30	Sandy Soil 2-7% per manual
3,583	0.92	Paved Areas
10,563	0.51	Weighted Average
10,563		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.2	19	0.0920	0.26		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
1.9	39	0.1260	0.34		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
0.5	66	0.0540	2.16		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.1	30	0.0500	4.54		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
1.3					**Direct Entry, Minimum Adjustment**
5.0	154	Total			



Summary for Subcatchment DB-B6: Drainage Basin B6

Runoff = 0.18 cfs @ 0.09 hrs, Volume= 0.005 af, Depth= 1.57"
Routed to Pond AI-B1 : AREA INLET B1

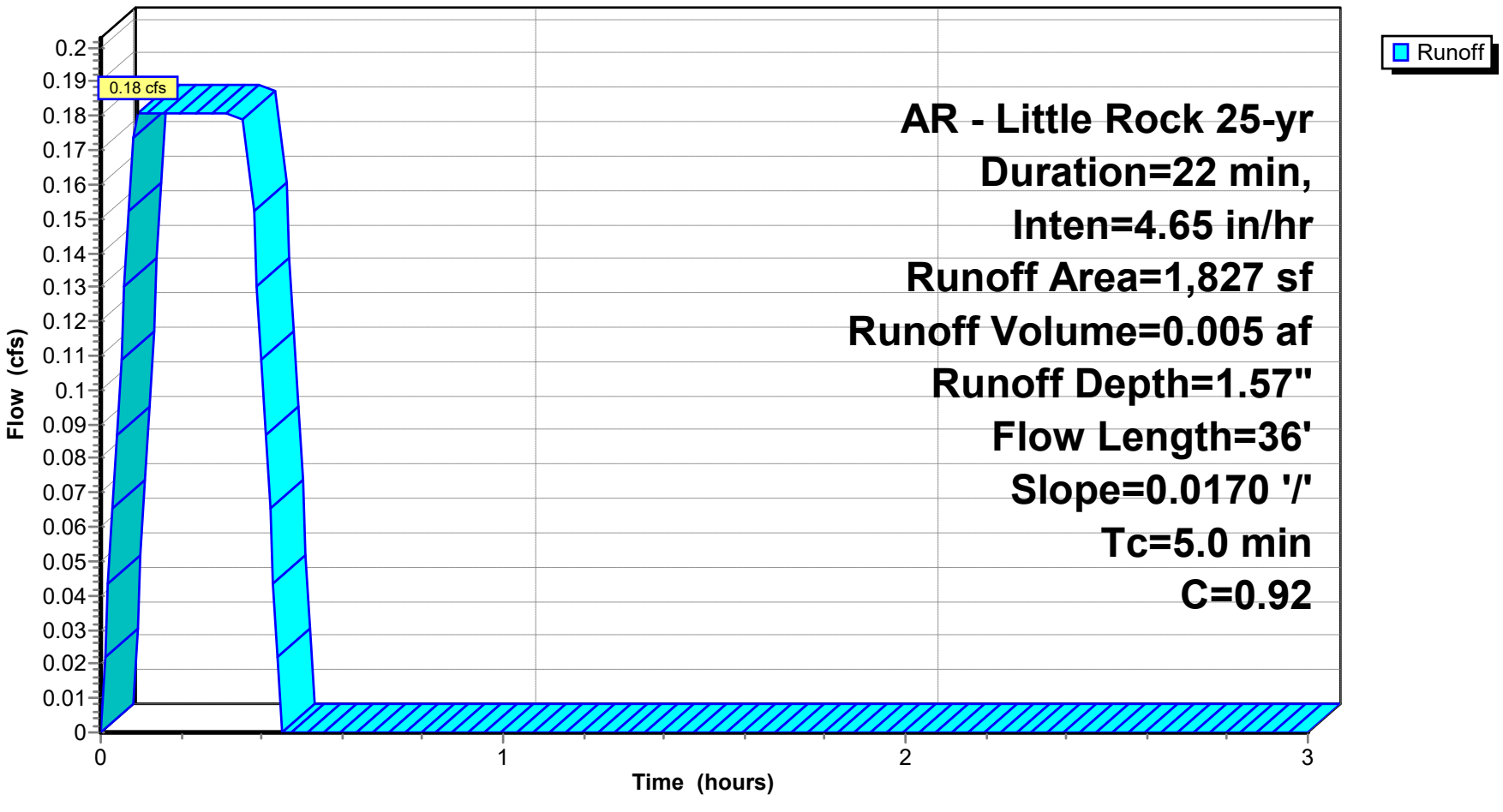
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 25-yr Duration=22 min, Inten=4.65 in/hr

Area (sf)	C	Description
0	0.30	Sandy Soil 2-7% per manual
1,827	0.92	Paved Areas
1,827	0.92	Weighted Average
1,827		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.5	36	0.0170	1.20		**Sheet Flow, Concrete** Smooth surfaces n= 0.011 P2= 4.20"
4.5					**Direct Entry, Minimum Adjustment**
5.0	36	Total			

Subcatchment DB-B6: Drainage Basin B6

Hydrograph



Summary for Subcatchment DB-B7: Drainage Basin B7

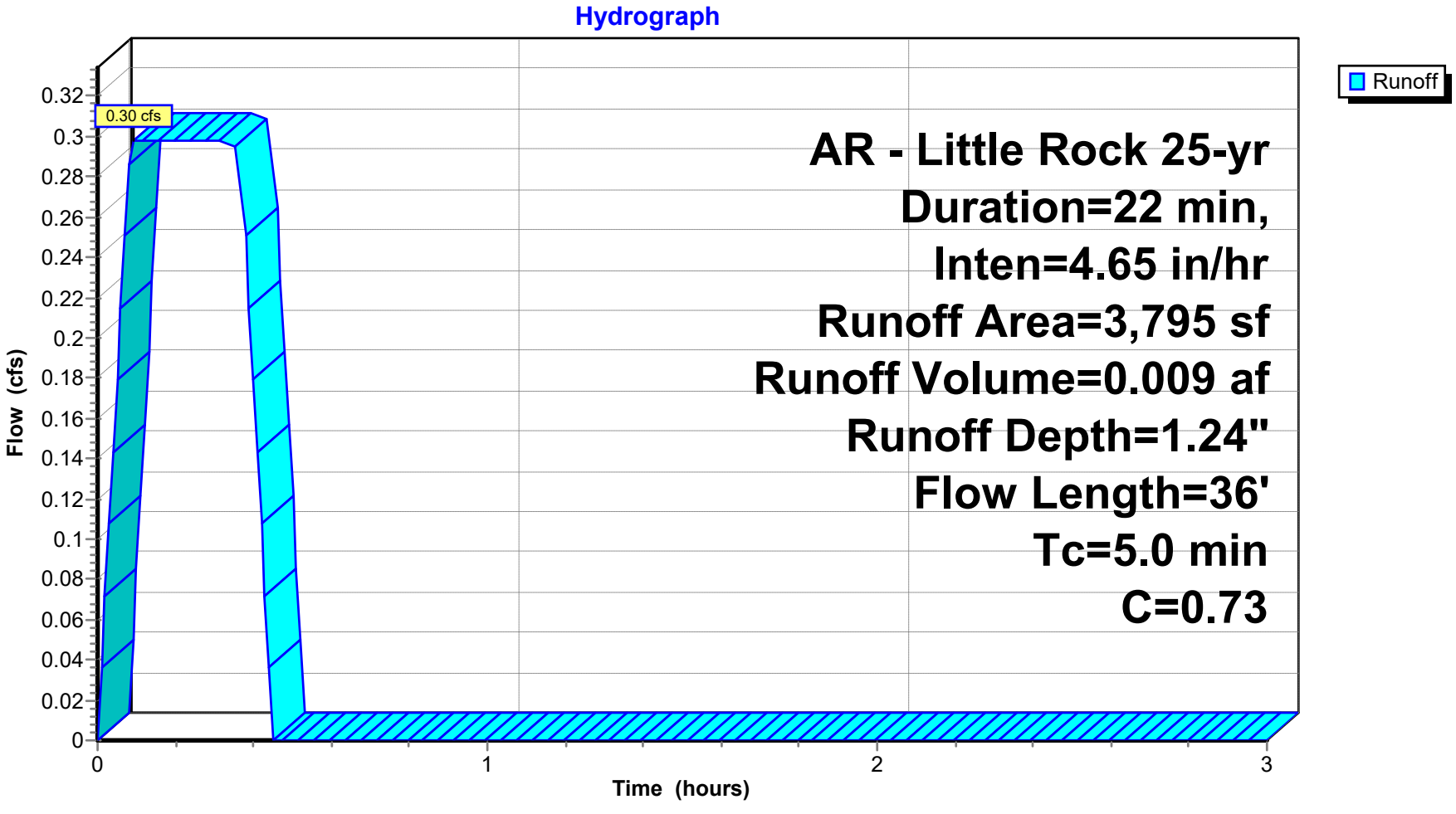
Runoff = 0.30 cfs @ 0.09 hrs, Volume= 0.009 af, Depth= 1.24"
Routed to Pond AI-B2 : AREA INLET B2

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 25-yr Duration=22 min, Inten=4.65 in/hr

Area (sf)	C	Description
1,158	0.30	Sandy Soil 2-7% per manual
2,637	0.92	Paved Areas
3,795	0.73	Weighted Average
3,795		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	24	0.0020	0.47		**Sheet Flow, Concrete** Smooth surfaces n= 0.011 P2= 4.20"
0.2	12	0.0160	0.94		**Sheet Flow, Concrete** Smooth surfaces n= 0.011 P2= 4.20"
4.0					**Direct Entry, Minimum Adjustment**
5.0	36	Total			

Subcatchment DB-B7: Drainage Basin B7



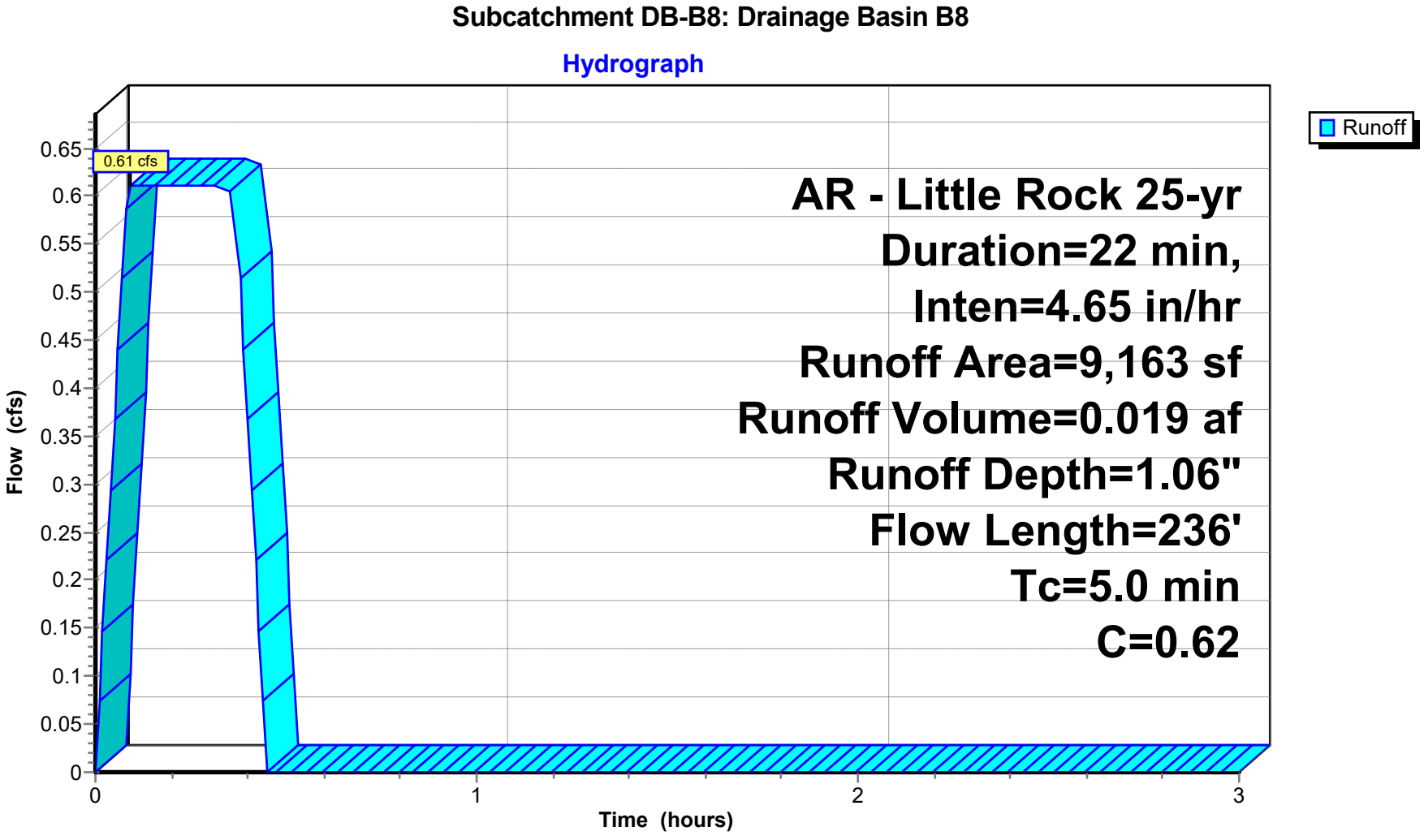
Summary for Subcatchment DB-B8: Drainage Basin B8

Runoff = 0.61 cfs @ 0.09 hrs, Volume= 0.019 af, Depth= 1.06"
Routed to Pond CI-C1 : CURB INLET C1

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 25-yr Duration=22 min, Inten=4.65 in/hr

Area (sf)	C	Description
4,431	0.30	Sadny Soil 2-7% per manual
4,732	0.92	Paved Areas
9,163	0.62	Weighted Average
9,163		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.4	33	0.0210	1.29		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.6	91	0.0620	2.43		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.8	112	0.0490	2.31		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
3.2					**Direct Entry, Minimum Adjustment**
5.0	236	Total			



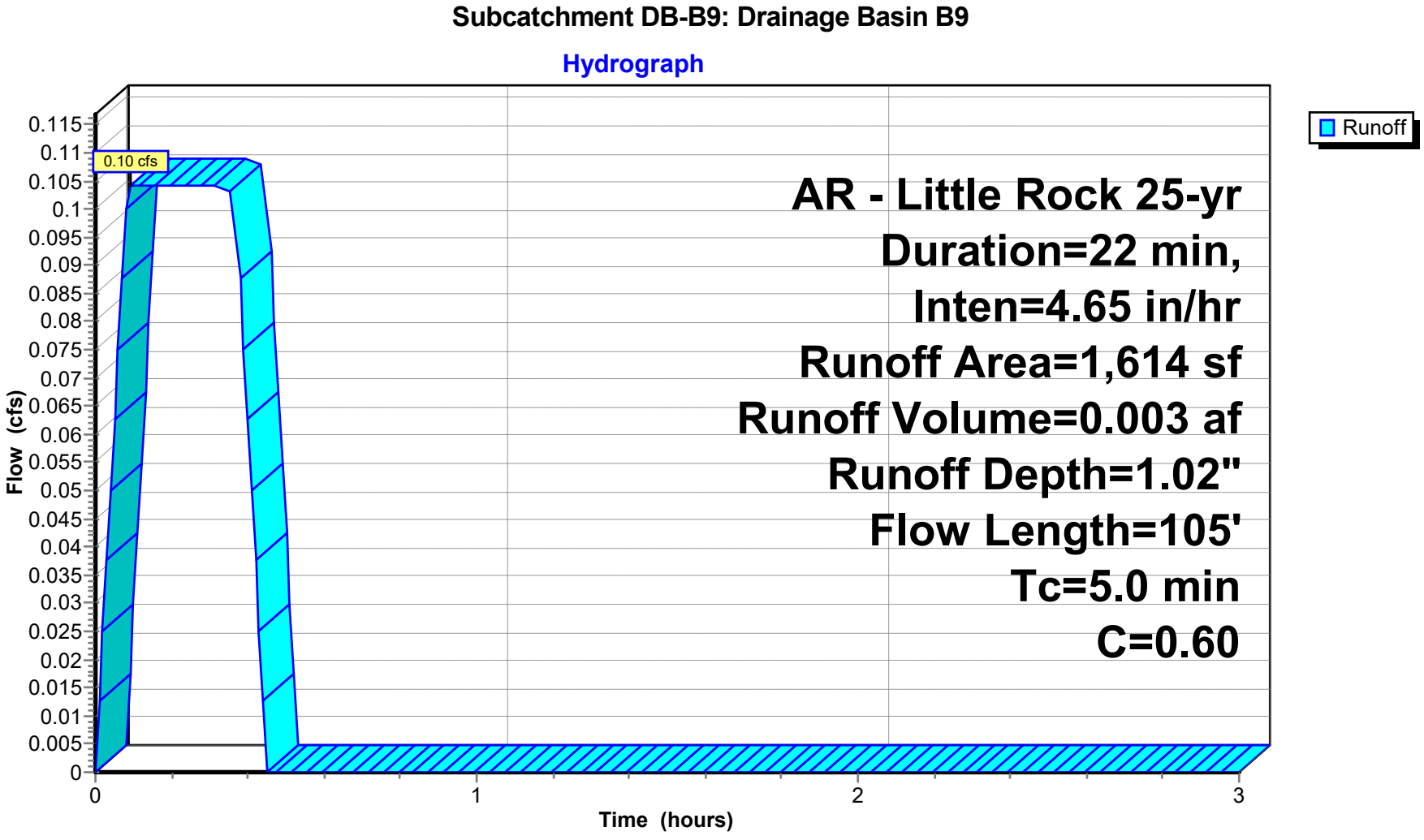
Summary for Subcatchment DB-B9: Drainage Basin B9

Runoff = 0.10 cfs @ 0.09 hrs, Volume= 0.003 af, Depth= 1.02"
Routed to Pond CI-C2 : CURB INLET C2

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 25-yr Duration=22 min, Inten=4.65 in/hr

Area (sf)	C	Description
826	0.30	Sandy Soil 2-7% per manual
788	0.92	Paved Areas
1,614	0.60	Weighted Average
1,614		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.0	62	0.0100	1.09		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.0	8	0.0230	3.08		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
0.2	35	0.0140	2.40		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
3.8					**Direct Entry, Minimum Adjustment**
5.0	105	Total			



Summary for Pond AI-B1: AREA INLET B1

Inflow Area = 0.042 ac, 0.00% Impervious, Inflow Depth = 1.57" for 25-yr event
Inflow = 0.18 cfs @ 0.09 hrs, Volume= 0.005 af
Outflow = 0.18 cfs @ 0.10 hrs, Volume= 0.005 af, Atten= 0%, Lag= 0.6 min
Primary = 0.18 cfs @ 0.10 hrs, Volume= 0.005 af
Routed to Pond AI-B2 : AREA INLET B2

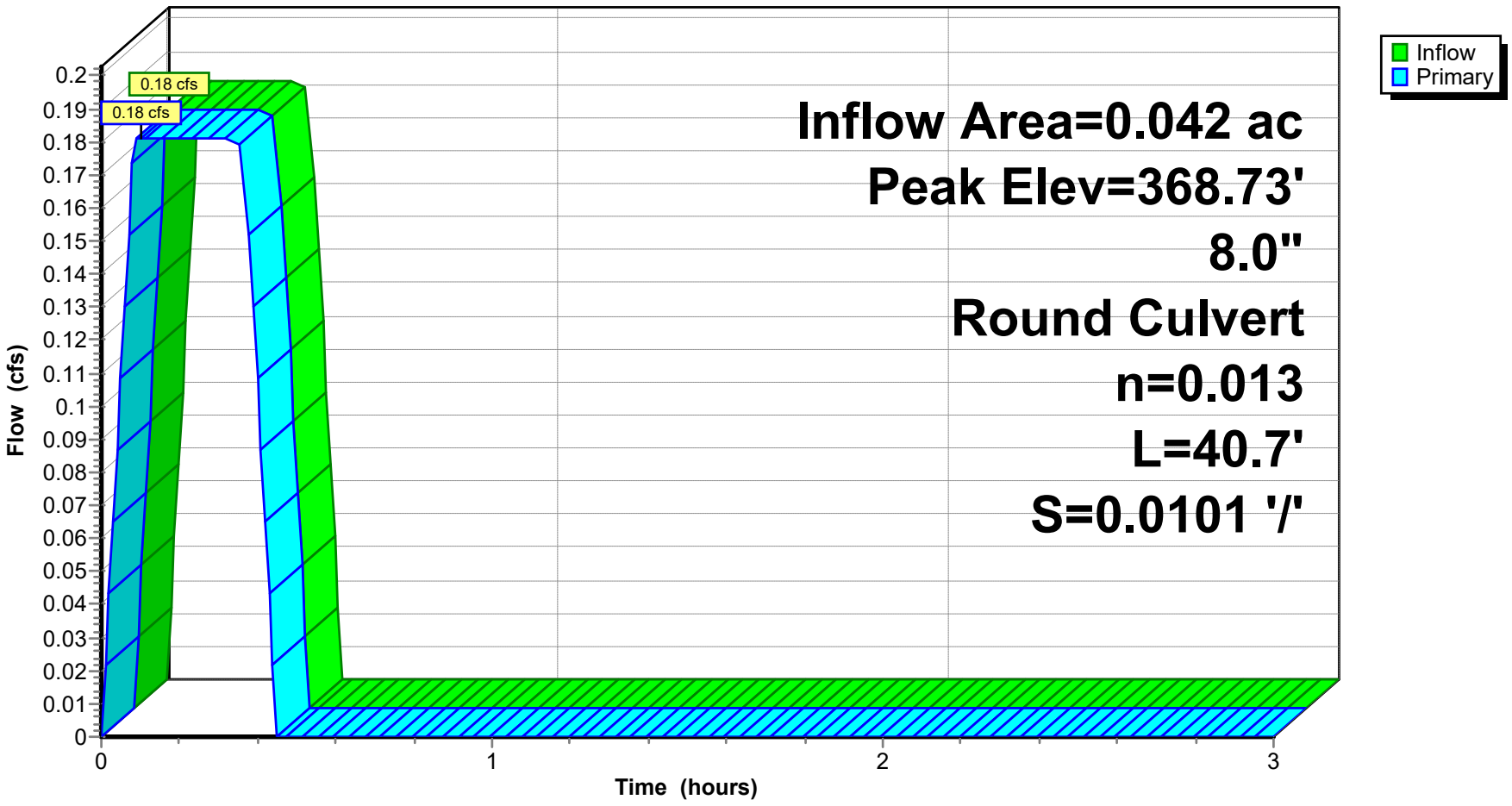
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 368.73' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	368.49'	**8.0" Round HDPE 8"** L= 40.7' Ke= 0.100 Inlet / Outlet Invert= 368.49' / 368.08' S= 0.0101 '/' Cc= 0.900 n= 0.013, Flow Area= 0.35 sf

Primary OutFlow Max=0.18 cfs @ 0.10 hrs HW=368.73' (Free Discharge)
1=HDPE 8" (Barrel Controls 0.18 cfs @ 2.41 fps)

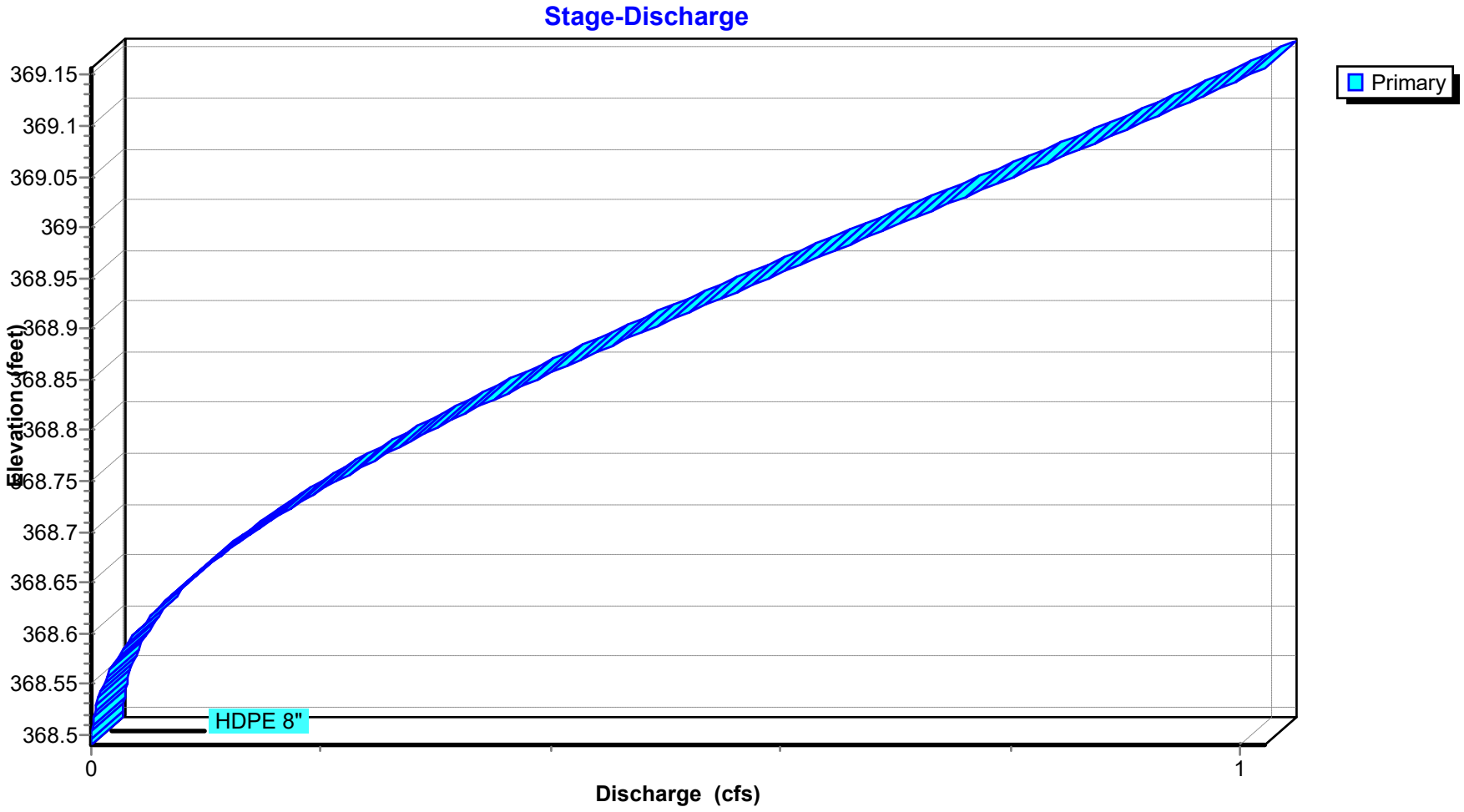
Pond AI-B1: AREA INLET B1

Hydrograph



Pond AI-B1: AREA INLET B1

Stage-Discharge



Stage-Area-Storage for Pond AI-B1: AREA INLET B1

Elevation (feet)	Storage (acre-feet)
368.49	**0.000**
368.50	0.000
368.51	0.000
368.52	0.000
368.53	0.000
368.54	0.000
368.55	0.000
368.56	0.000
368.57	0.000
368.58	0.000
368.59	0.000
368.60	0.000
368.61	0.000
368.62	0.000
368.63	0.000
368.64	0.000
368.65	0.000
368.66	0.000
368.67	0.000
368.68	0.000
368.69	0.000
368.70	0.000
368.71	0.000
368.72	0.000
368.73	0.000
368.74	0.000
368.75	0.000
368.76	0.000
368.77	0.000
368.78	0.000
368.79	0.000
368.80	0.000
368.81	0.000
368.82	0.000
368.83	0.000
368.84	0.000
368.85	0.000
368.86	0.000
368.87	0.000
368.88	0.000
368.89	0.000
368.90	0.000
368.91	0.000
368.92	0.000
368.93	0.000
368.94	0.000
368.95	0.000
368.96	0.000
368.97	0.000
368.98	0.000
368.99	0.000
369.00	0.000
369.01	0.000
369.02	0.000
369.03	0.000
369.04	0.000
369.05	0.000
369.06	0.000
369.07	0.000
369.08	0.000
369.09	0.000
369.10	0.000
369.11	0.000
369.12	0.000
369.13	0.000
369.14	0.000
369.15	0.000
369.16	0.000

Summary for Pond AI-B2: AREA INLET B2

Inflow Area = 0.129 ac, 0.00% Impervious, Inflow Depth = 1.35" for 25-yr event
Inflow = 0.48 cfs @ 0.09 hrs, Volume= 0.015 af
Outflow = 0.48 cfs @ 0.09 hrs, Volume= 0.015 af, Atten= 0%, Lag= 0.0 min
Primary = 0.48 cfs @ 0.09 hrs, Volume= 0.015 af
Routed to Pond CI-A2 : CURB INLET A2

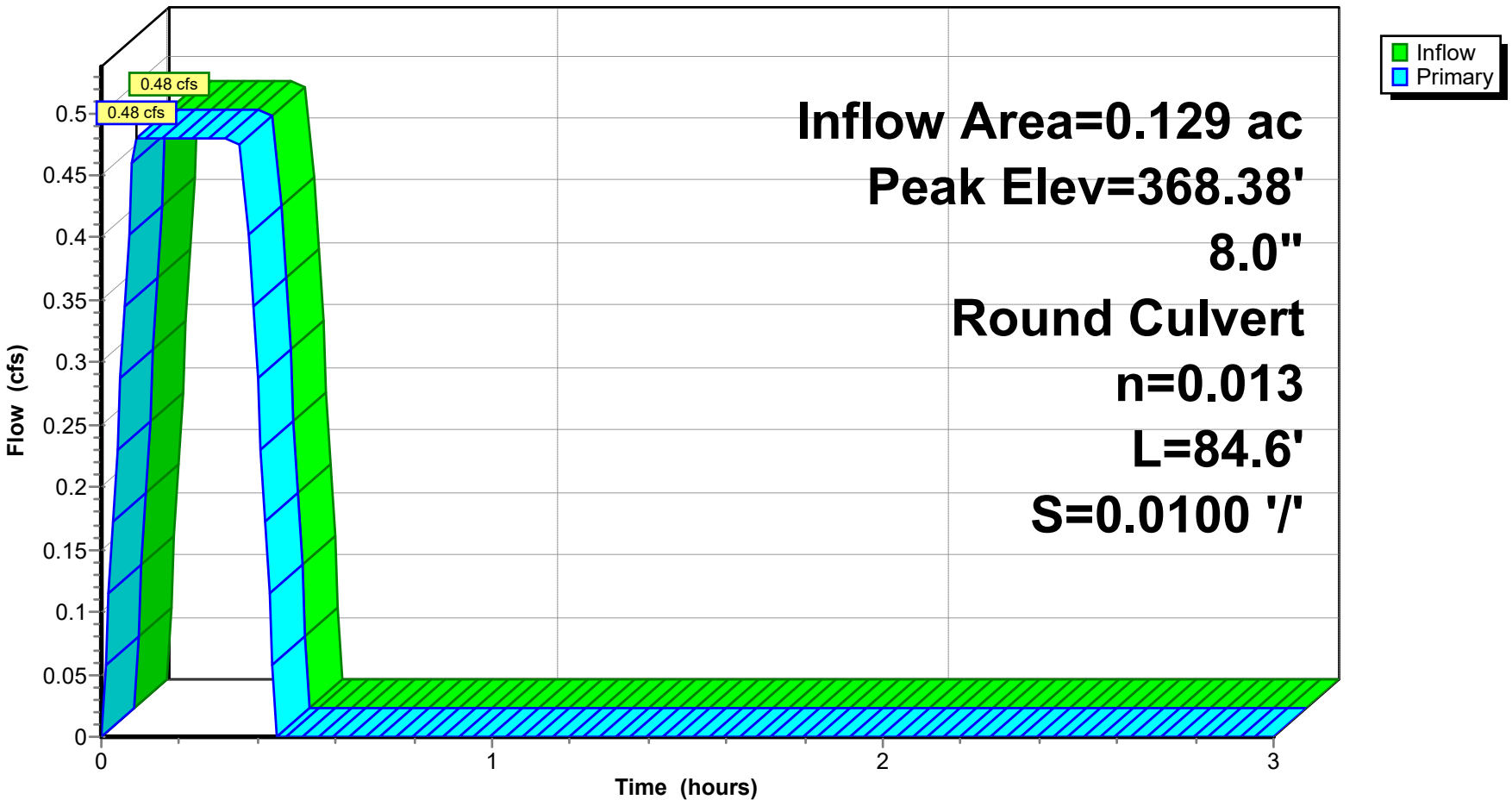
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 368.38' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	367.98'	**8.0" Round HDPE** L= 84.6' Ke= 0.100 Inlet / Outlet Invert= 367.98' / 367.13' S= 0.0100 '/' Cc= 0.900 n= 0.013, Flow Area= 0.35 sf

Primary OutFlow Max=0.48 cfs @ 0.09 hrs HW=368.38' (Free Discharge)
1=HDPE (Barrel Controls 0.48 cfs @ 3.16 fps)

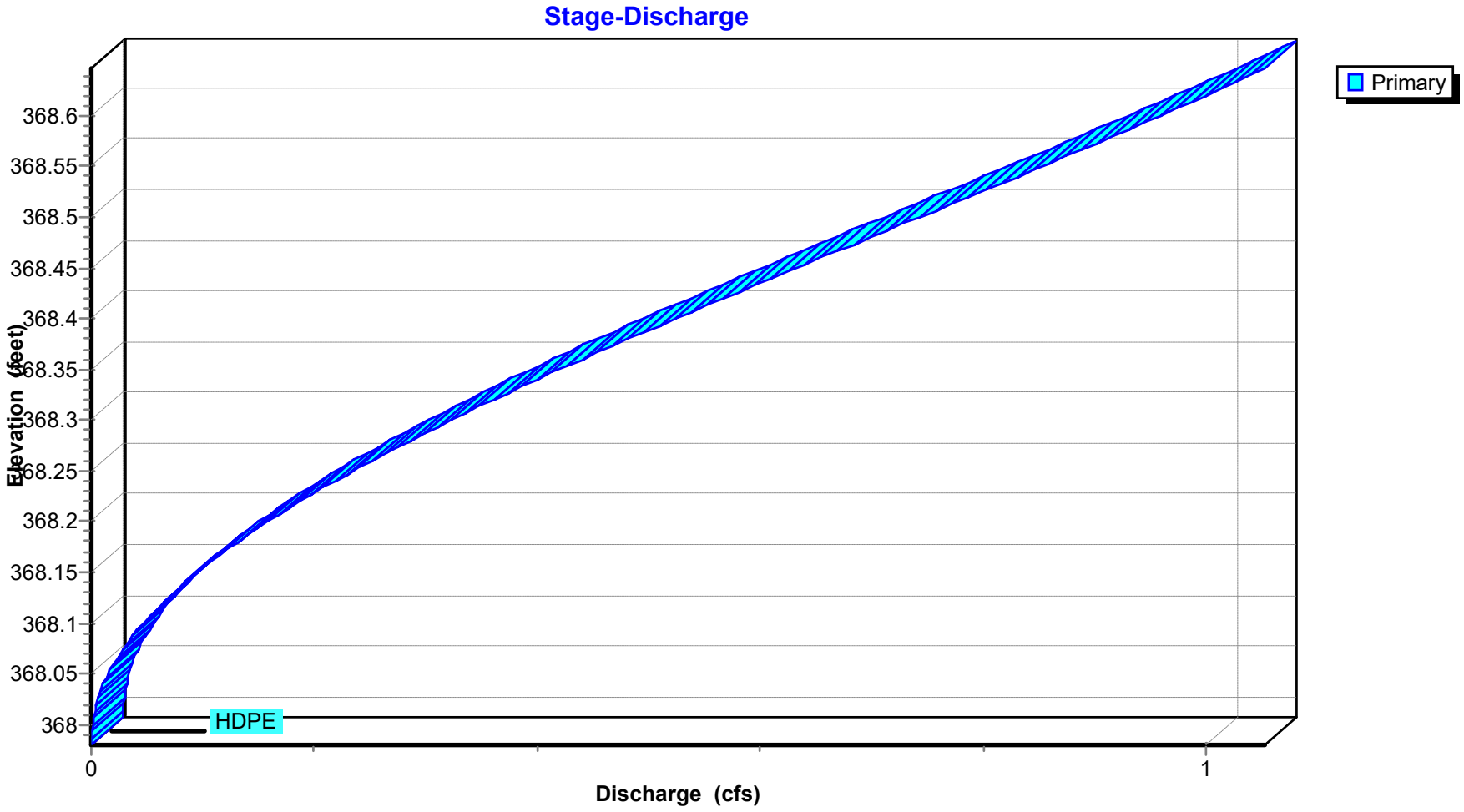
Pond AI-B2: AREA INLET B2

Hydrograph



Pond AI-B2: AREA INLET B2

Stage-Discharge



Stage-Area-Storage for Pond AI-B2: AREA INLET B2

Elevation (feet)	Storage (acre-feet)
367.98	**0.000**
367.99	0.000
368.00	0.000
368.01	0.000
368.02	0.000
368.03	0.000
368.04	0.000
368.05	0.000
368.06	0.000
368.07	0.000
368.08	0.000
368.09	0.000
368.10	0.000
368.11	0.000
368.12	0.000
368.13	0.000
368.14	0.000
368.15	0.000
368.16	0.000
368.17	0.000
368.18	0.000
368.19	0.000
368.20	0.000
368.21	0.000
368.22	0.000
368.23	0.000
368.24	0.000
368.25	0.000
368.26	0.000
368.27	0.000
368.28	0.000
368.29	0.000
368.30	0.000
368.31	0.000
368.32	0.000
368.33	0.000
368.34	0.000
368.35	0.000
368.36	0.000
368.37	0.000
368.38	0.000
368.39	0.000
368.40	0.000
368.41	0.000
368.42	0.000
368.43	0.000
368.44	0.000
368.45	0.000
368.46	0.000
368.47	0.000
368.48	0.000
368.49	0.000
368.50	0.000
368.51	0.000
368.52	0.000
368.53	0.000
368.54	0.000
368.55	0.000
368.56	0.000
368.57	0.000
368.58	0.000
368.59	0.000
368.60	0.000
368.61	0.000
368.62	0.000
368.63	0.000
368.64	0.000
368.65	0.000

Summary for Pond CI-A1: CURB INLET A1

Inflow Area = 0.443 ac, 0.00% Impervious, Inflow Depth = 1.47" for 25-yr event
Inflow = 1.79 cfs @ 0.09 hrs, Volume= 0.054 af
Outflow = 1.79 cfs @ 0.10 hrs, Volume= 0.054 af, Atten= 0%, Lag= 0.6 min
Primary = 1.79 cfs @ 0.10 hrs, Volume= 0.054 af
Routed to Pond CI-A2 : CURB INLET A2

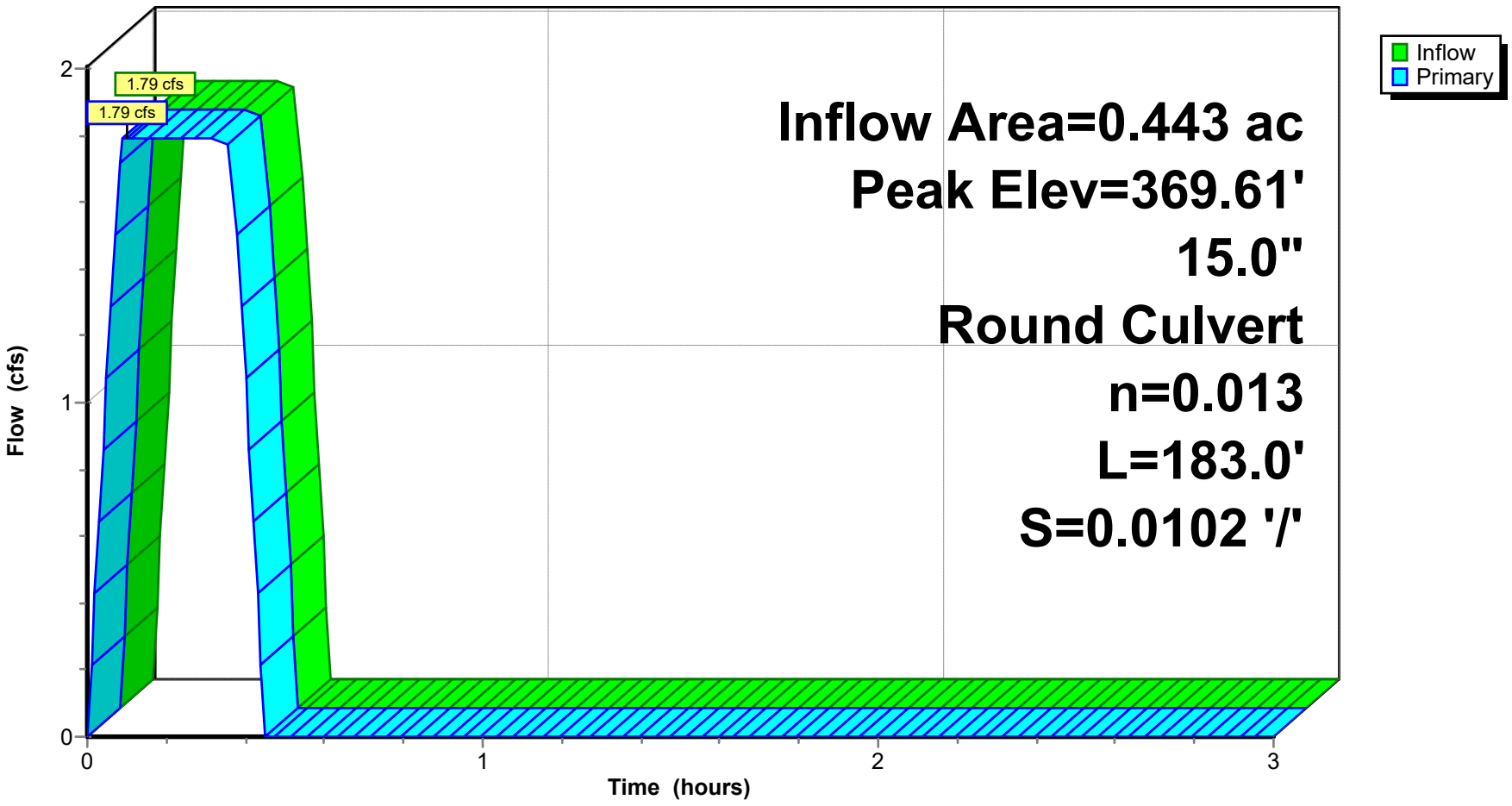
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 369.61' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	369.00'	**15.0" Round RCP_Round 15"** L= 183.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 369.00' / 367.13' S= 0.0102 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.23 sf

Primary OutFlow Max=1.79 cfs @ 0.10 hrs HW=369.61' (Free Discharge)
1=RCP_Round 15" (Barrel Controls 1.79 cfs @ 4.37 fps)

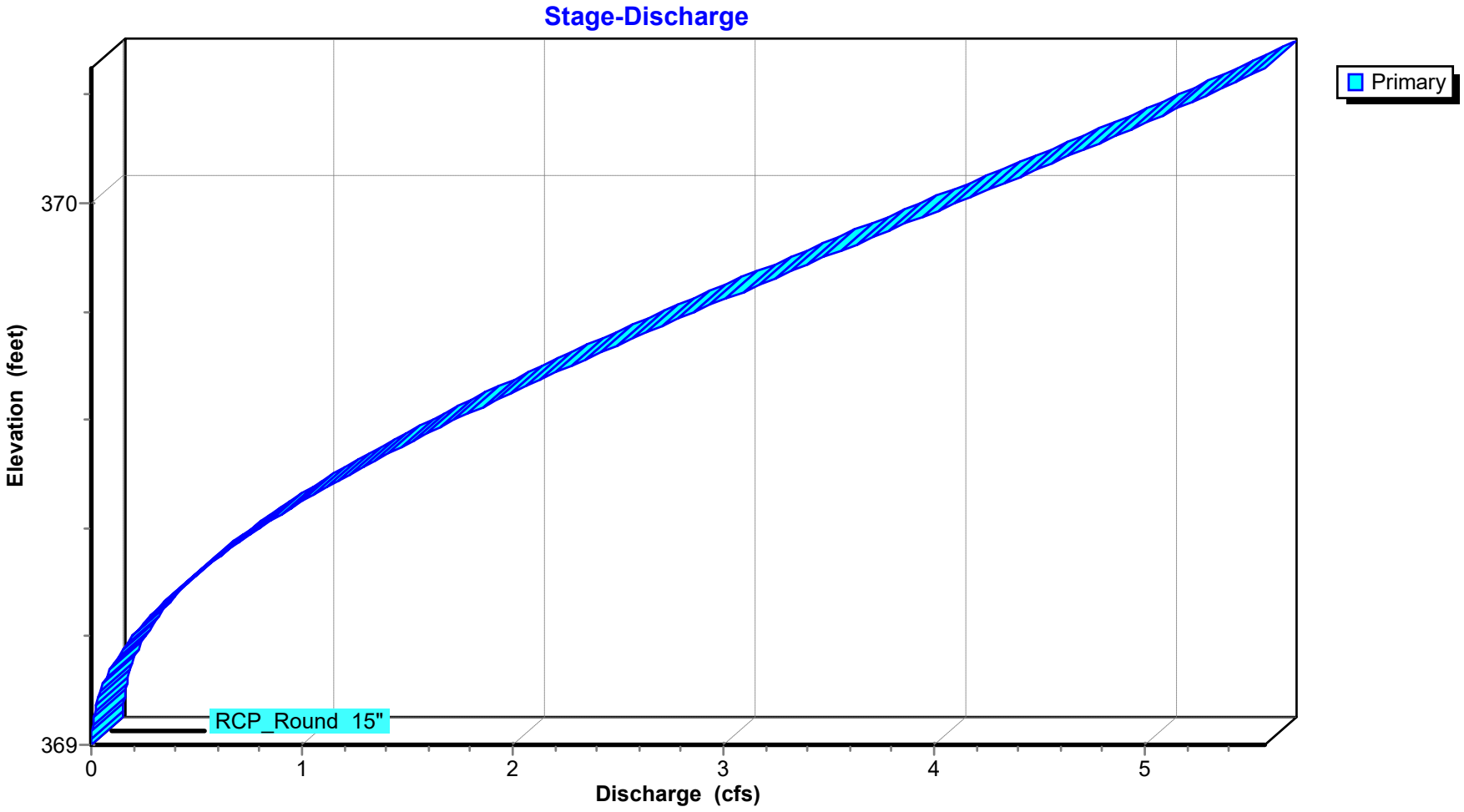
Pond CI-A1: CURB INLET A1

Hydrograph



Pond CI-A1: CURB INLET A1

Stage-Discharge



Stage-Area-Storage for Pond CI-A1: CURB INLET A1

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
369.00	**0.000**	369.92	0.000
369.01	0.000	369.93	0.000
369.02	0.000	369.94	0.000
369.03	0.000	369.95	0.000
369.04	0.000	369.96	0.000
369.05	0.000	369.97	0.000
369.06	0.000	369.98	0.000
369.07	0.000	369.99	0.000
369.08	0.000	370.00	0.000
369.09	0.000	370.01	0.000
369.10	0.000	370.02	0.000
369.11	0.000	370.03	0.000
369.12	0.000	370.04	0.000
369.13	0.000	370.05	0.000
369.14	0.000	370.06	0.000
369.15	0.000	370.07	0.000
369.16	0.000	370.08	0.000
369.17	0.000	370.09	0.000
369.18	0.000	370.10	0.000
369.19	0.000	370.11	0.000
369.20	0.000	370.12	0.000
369.21	0.000	370.13	0.000
369.22	0.000	370.14	0.000
369.23	0.000	370.15	0.000
369.24	0.000	370.16	0.000
369.25	0.000	370.17	0.000
369.26	0.000	370.18	0.000
369.27	0.000	370.19	0.000
369.28	0.000	370.20	0.000
369.29	0.000	370.21	0.000
369.30	0.000	370.22	0.000
369.31	0.000	370.23	0.000
369.32	0.000	370.24	0.000
369.33	0.000	370.25	0.000
369.34	0.000		
369.35	0.000		
369.36	0.000		
369.37	0.000		
369.38	0.000		
369.39	0.000		
369.40	0.000		
369.41	0.000		
369.42	0.000		
369.43	0.000		
369.44	0.000		
369.45	0.000		
369.46	0.000		
369.47	0.000		
369.48	0.000		
369.49	0.000		
369.50	0.000		
369.51	0.000		
369.52	0.000		
369.53	0.000		
369.54	0.000		
369.55	0.000		
369.56	0.000		
369.57	0.000		
369.58	0.000		
369.59	0.000		
369.60	0.000		
369.61	0.000		
369.62	0.000		
369.63	0.000		
369.64	0.000		
369.65	0.000		
369.66	0.000		
369.67	0.000		
369.68	0.000		
369.69	0.000		
369.70	0.000		
369.71	0.000		
369.72	0.000		
369.73	0.000		
369.74	0.000		
369.75	0.000		
369.76	0.000		
369.77	0.000		
369.78	0.000		
369.79	0.000		
369.80	0.000		
369.81	0.000		
369.82	0.000		
369.83	0.000		
369.84	0.000		
369.85	0.000		
369.86	0.000		
369.87	0.000		
369.88	0.000		
369.89	0.000		
369.90	0.000		
369.91	0.000		

Summary for Pond CI-A2: CURB INLET A2

Inflow Area = 1.156 ac, 0.00% Impervious, Inflow Depth = 1.26" for 25-yr event
Inflow = 4.02 cfs @ 0.15 hrs, Volume= 0.122 af
Outflow = 4.02 cfs @ 0.15 hrs, Volume= 0.122 af, Atten= 0%, Lag= 0.0 min
Primary = 4.02 cfs @ 0.15 hrs, Volume= 0.122 af
Routed to Pond CI-A3 : CURB INLET A3

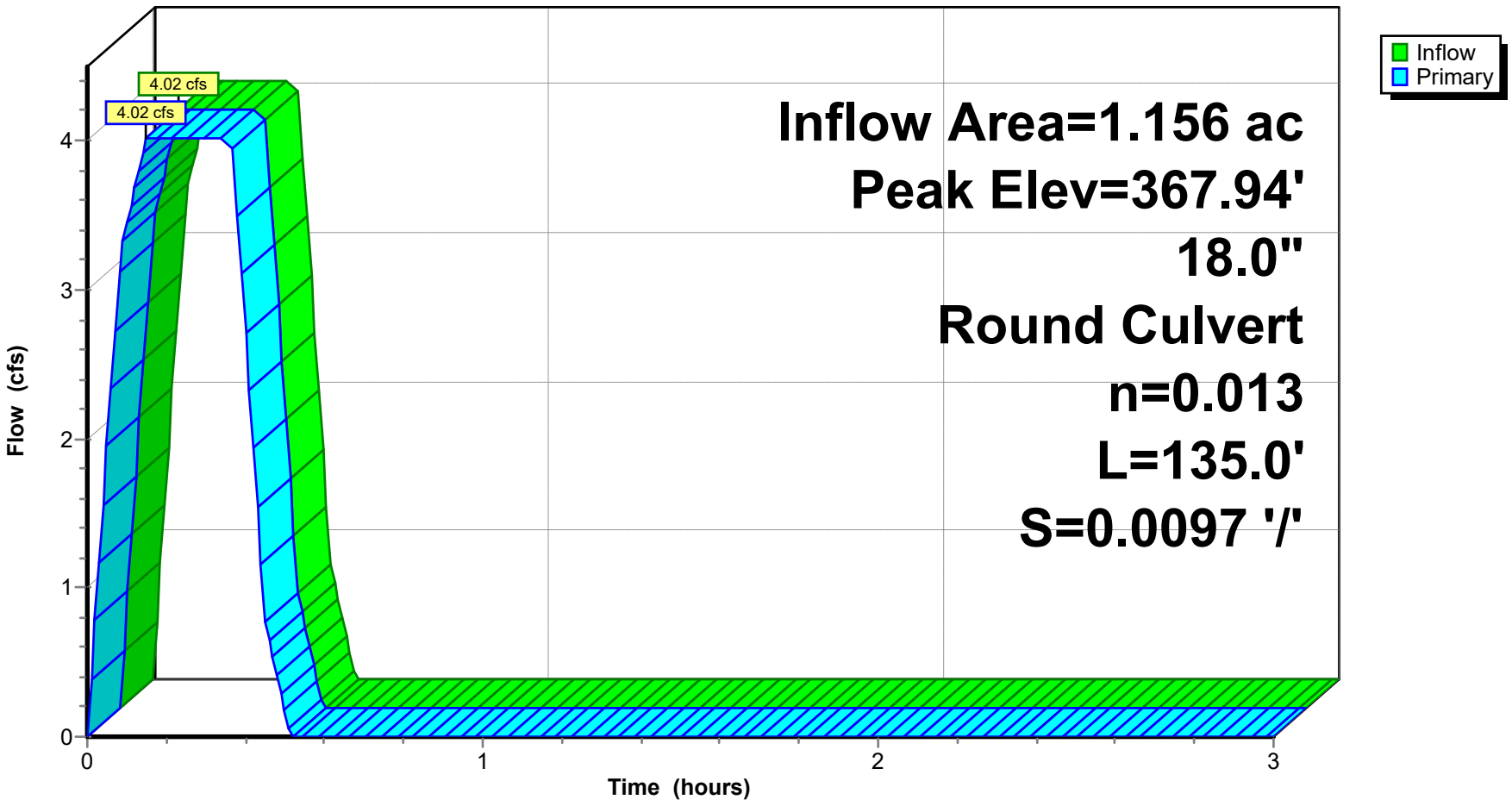
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 367.94' @ 0.15 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	367.03'	**18.0" Round RCP_Round 18"** L= 135.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 367.03' / 365.72' S= 0.0097 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.77 sf

Primary OutFlow Max=4.02 cfs @ 0.15 hrs HW=367.94' (Free Discharge)
1=RCP_Round 18" (Barrel Controls 4.02 cfs @ 5.12 fps)

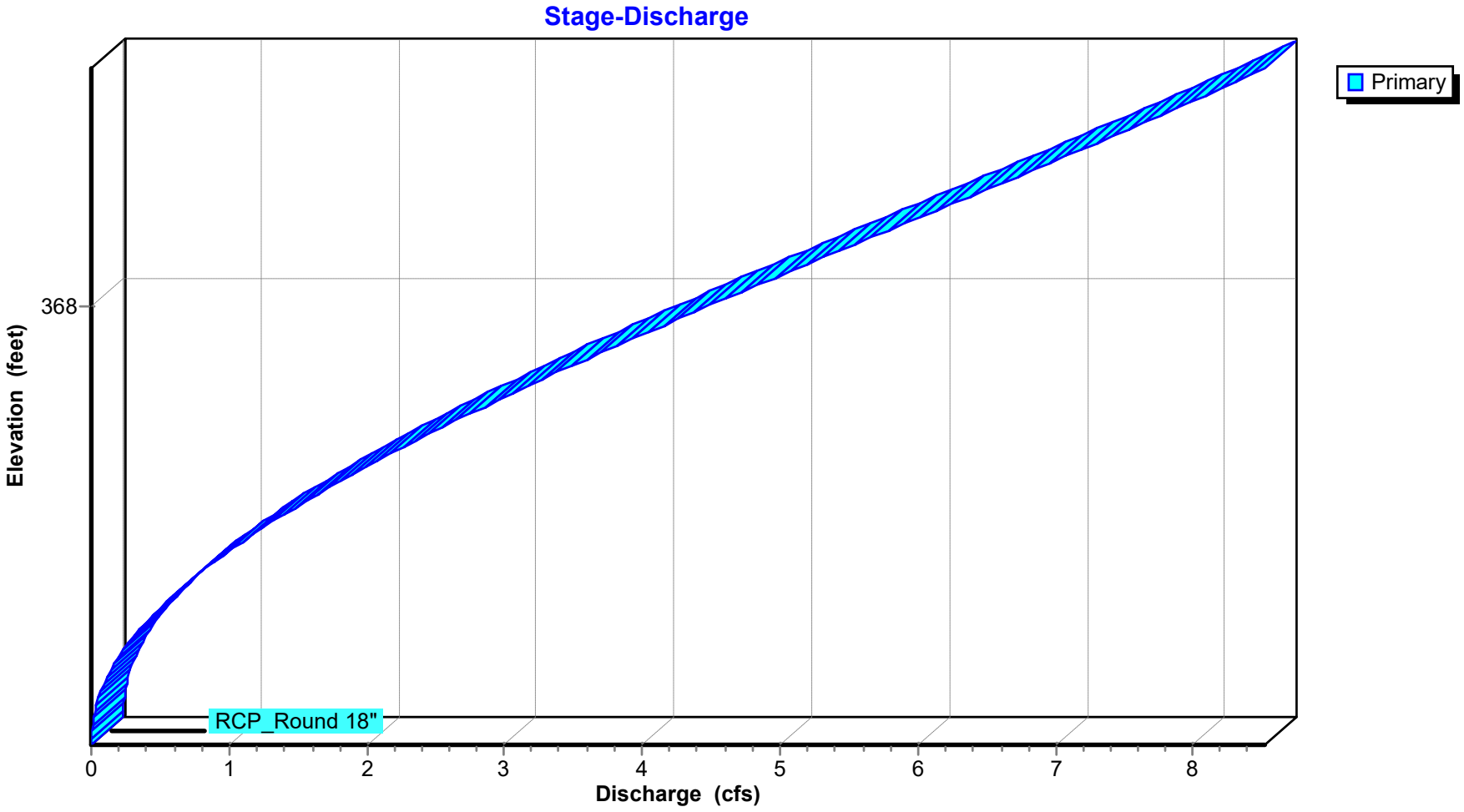
Pond CI-A2: CURB INLET A2

Hydrograph



Pond CI-A2: CURB INLET A2

Stage-Discharge



Stage-Area-Storage for Pond CI-A2: CURB INLET A2

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
367.03	**0.000**	367.95	0.000
367.04	0.000	367.96	0.000
367.05	0.000	367.97	0.000
367.06	0.000	367.98	0.000
367.07	0.000	367.99	0.000
367.08	0.000	368.00	0.000
367.09	0.000	368.01	0.000
367.10	0.000	368.02	0.000
367.11	0.000	368.03	0.000
367.12	0.000	368.04	0.000
367.13	0.000	368.05	0.000
367.14	0.000	368.06	0.000
367.15	0.000	368.07	0.000
367.16	0.000	368.08	0.000
367.17	0.000	368.09	0.000
367.18	0.000	368.10	0.000
367.19	0.000	368.11	0.000
367.20	0.000	368.12	0.000
367.21	0.000	368.13	0.000
367.22	0.000	368.14	0.000
367.23	0.000	368.15	0.000
367.24	0.000	368.16	0.000
367.25	0.000	368.17	0.000
367.26	0.000	368.18	0.000
367.27	0.000	368.19	0.000
367.28	0.000	368.20	0.000
367.29	0.000	368.21	0.000
367.30	0.000	368.22	0.000
367.31	0.000	368.23	0.000
367.32	0.000	368.24	0.000
367.33	0.000	368.25	0.000
367.34	0.000	368.26	0.000
367.35	0.000	368.27	0.000
367.36	0.000	368.28	0.000
367.37	0.000	368.29	0.000
367.38	0.000	368.30	0.000
367.39	0.000	368.31	0.000
367.40	0.000	368.32	0.000
367.41	0.000	368.33	0.000
367.42	0.000	368.34	0.000
367.43	0.000	368.35	0.000
367.44	0.000	368.36	0.000
367.45	0.000	368.37	0.000
367.46	0.000	368.38	0.000
367.47	0.000	368.39	0.000
367.48	0.000	368.40	0.000
367.49	0.000	368.41	0.000
367.50	0.000	368.42	0.000
367.51	0.000	368.43	0.000
367.52	0.000	368.44	0.000
367.53	0.000	368.45	0.000
367.54	0.000	368.46	0.000
367.55	0.000	368.47	0.000
367.56	0.000	368.48	0.000
367.57	0.000	368.49	0.000
367.58	0.000	368.50	0.000
367.59	0.000	368.51	0.000
367.60	0.000	368.52	0.000
367.61	0.000	368.53	0.000
367.62	0.000		
367.63	0.000		
367.64	0.000		
367.65	0.000		
367.66	0.000		
367.67	0.000		
367.68	0.000		
367.69	0.000		
367.70	0.000		
367.71	0.000		
367.72	0.000		
367.73	0.000		
367.74	0.000		
367.75	0.000		
367.76	0.000		
367.77	0.000		
367.78	0.000		
367.79	0.000		
367.80	0.000		
367.81	0.000		
367.82	0.000		
367.83	0.000		
367.84	0.000		
367.85	0.000		
367.86	0.000		
367.87	0.000		
367.88	0.000		
367.89	0.000		
367.90	0.000		
367.91	0.000		
367.92	0.000		
367.93	0.000		
367.94	0.000		

Summary for Pond CI-A3: CURB INLET A3

Inflow Area = 1.426 ac, 0.00% Impervious, Inflow Depth = 1.27" for 25-yr event
Inflow = 5.00 cfs @ 0.15 hrs, Volume= 0.151 af
Outflow = 5.00 cfs @ 0.15 hrs, Volume= 0.151 af, Atten= 0%, Lag= 0.0 min
Primary = 5.00 cfs @ 0.15 hrs, Volume= 0.151 af
Routed to Pond CI-A4 : CURB INLET A4

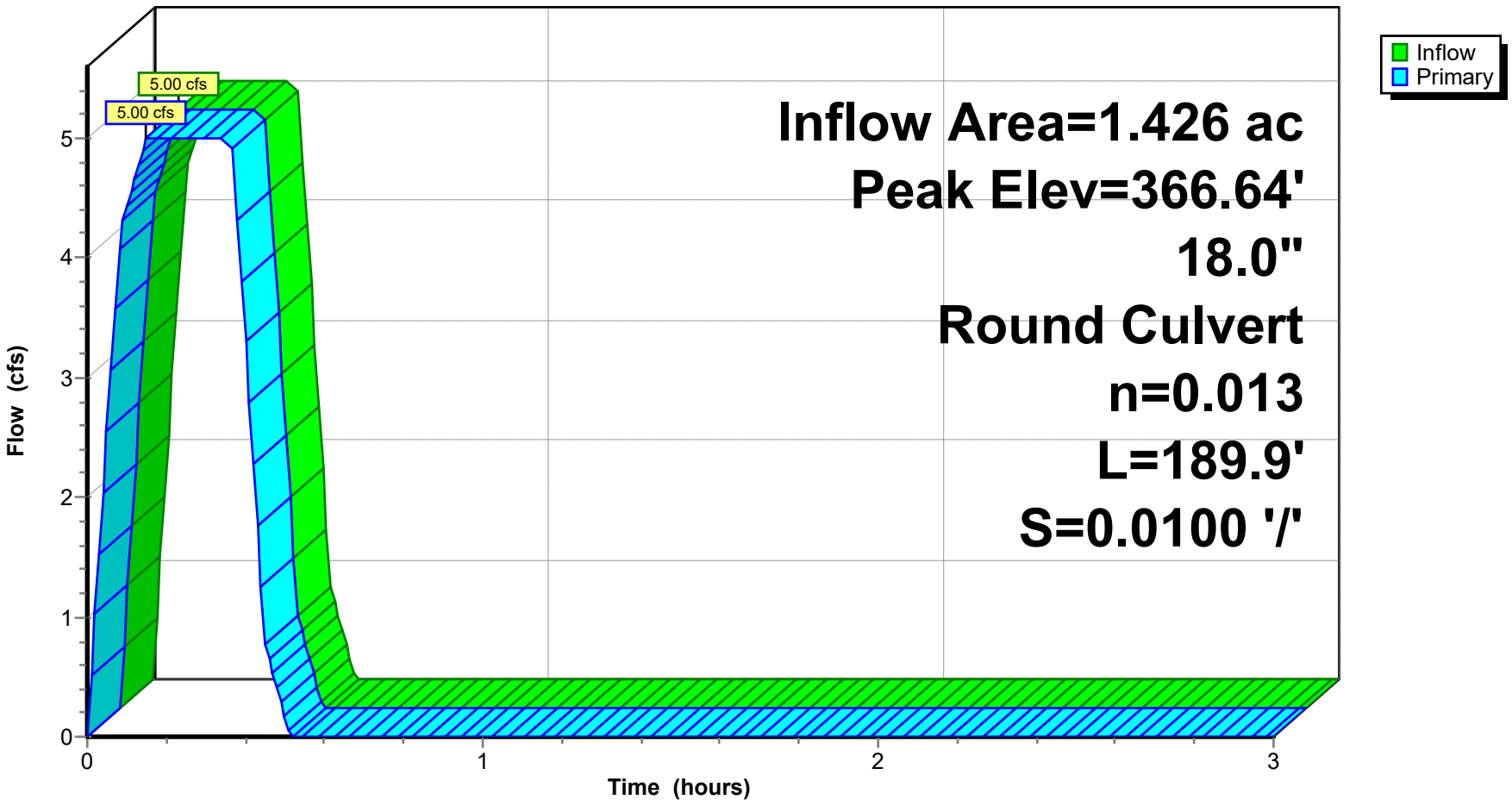
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 366.64' @ 0.15 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	365.62'	**18.0" Round RCP_Round 18"** L= 189.9' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 365.62' / 363.72' S= 0.0100 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.77 sf

Primary OutFlow Max=5.00 cfs @ 0.15 hrs HW=366.64' (Free Discharge)
1=RCP_Round 18" (Barrel Controls 5.00 cfs @ 5.54 fps)

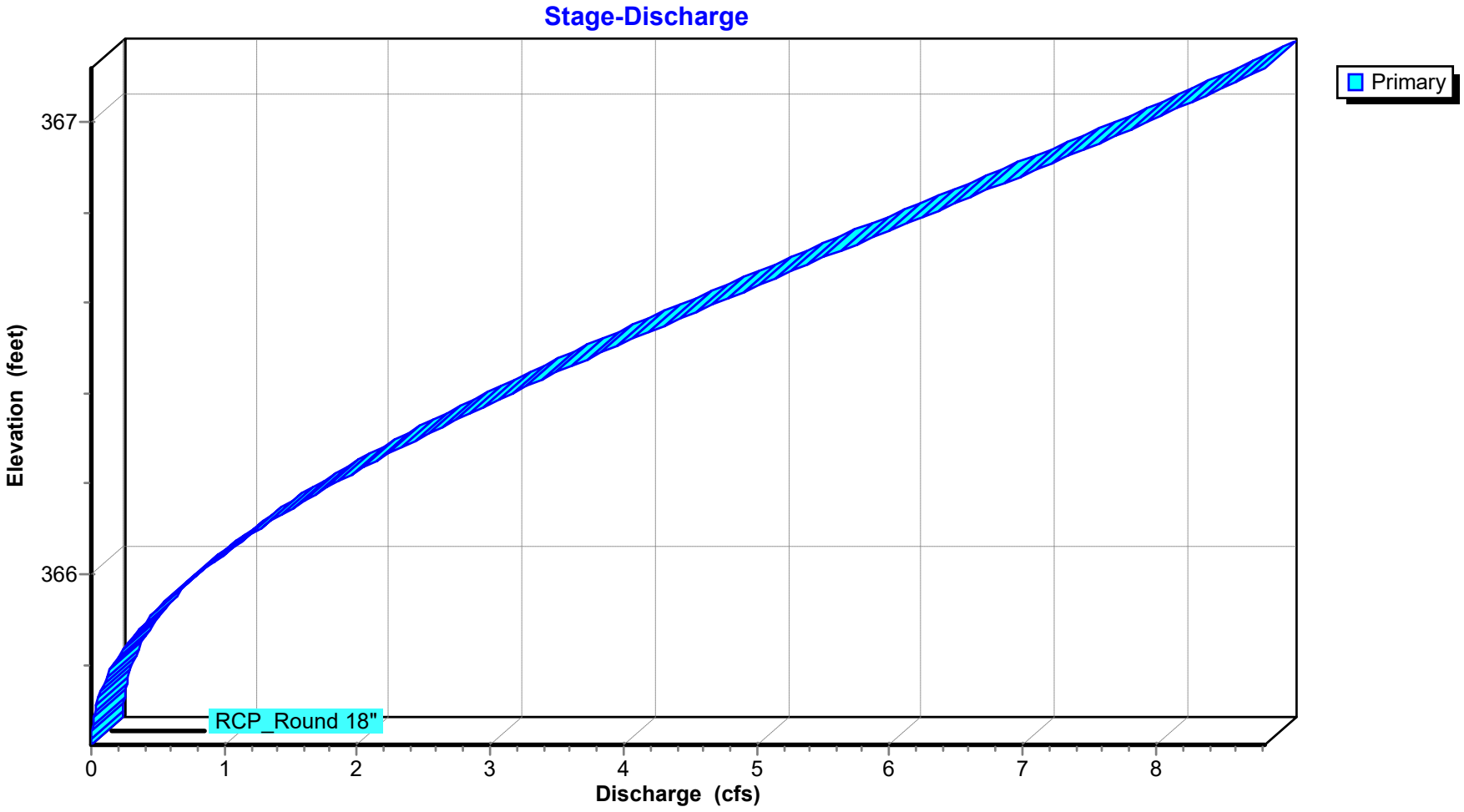
Pond CI-A3: CURB INLET A3

Hydrograph



Pond CI-A3: CURB INLET A3

Stage-Discharge



Stage-Area-Storage for Pond CI-A3: CURB INLET A3

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
365.62	**0.000**	366.54	0.000
365.63	0.000	366.55	0.000
365.64	0.000	366.56	0.000
365.65	0.000	366.57	0.000
365.66	0.000	366.58	0.000
365.67	0.000	366.59	0.000
365.68	0.000	366.60	0.000
365.69	0.000	366.61	0.000
365.70	0.000	366.62	0.000
365.71	0.000	366.63	0.000
365.72	0.000	366.64	0.000
365.73	0.000	366.65	0.000
365.74	0.000	366.66	0.000
365.75	0.000	366.67	0.000
365.76	0.000	366.68	0.000
365.77	0.000	366.69	0.000
365.78	0.000	366.70	0.000
365.79	0.000	366.71	0.000
365.80	0.000	366.72	0.000
365.81	0.000	366.73	0.000
365.82	0.000	366.74	0.000
365.83	0.000	366.75	0.000
365.84	0.000	366.76	0.000
365.85	0.000	366.77	0.000
365.86	0.000	366.78	0.000
365.87	0.000	366.79	0.000
365.88	0.000	366.80	0.000
365.89	0.000	366.81	0.000
365.90	0.000	366.82	0.000
365.91	0.000	366.83	0.000
365.92	0.000	366.84	0.000
365.93	0.000	366.85	0.000
365.94	0.000	366.86	0.000
365.95	0.000	366.87	0.000
365.96	0.000	366.88	0.000
365.97	0.000	366.89	0.000
365.98	0.000	366.90	0.000
365.99	0.000	366.91	0.000
366.00	0.000	366.92	0.000
366.01	0.000	366.93	0.000
366.02	0.000	366.94	0.000
366.03	0.000	366.95	0.000
366.04	0.000	366.96	0.000
366.05	0.000	366.97	0.000
366.06	0.000	366.98	0.000
366.07	0.000	366.99	0.000
366.08	0.000	367.00	0.000
366.09	0.000	367.01	0.000
366.10	0.000	367.02	0.000
366.11	0.000	367.03	0.000
366.12	0.000	367.04	0.000
366.13	0.000	367.05	0.000
366.14	0.000	367.06	0.000
366.15	0.000	367.07	0.000
366.16	0.000	367.08	0.000
366.17	0.000	367.09	0.000
366.18	0.000	367.10	0.000
366.19	0.000	367.11	0.000
366.20	0.000	367.12	0.000
366.21	0.000		
366.22	0.000		
366.23	0.000		
366.24	0.000		
366.25	0.000		
366.26	0.000		
366.27	0.000		
366.28	0.000		
366.29	0.000		
366.30	0.000		
366.31	0.000		
366.32	0.000		
366.33	0.000		
366.34	0.000		
366.35	0.000		
366.36	0.000		
366.37	0.000		
366.38	0.000		
366.39	0.000		
366.40	0.000		
366.41	0.000		
366.42	0.000		
366.43	0.000		
366.44	0.000		
366.45	0.000		
366.46	0.000		
366.47	0.000		
366.48	0.000		
366.49	0.000		
366.50	0.000		
366.51	0.000		
366.52	0.000		
366.53	0.000		

Summary for Pond CI-A4: CURB INLET A4

Inflow Area = 2.197 ac, 0.00% Impervious, Inflow Depth = 1.25" for 25-yr event
Inflow = 7.56 cfs @ 0.15 hrs, Volume= 0.229 af
Outflow = 7.56 cfs @ 0.15 hrs, Volume= 0.229 af, Atten= 0%, Lag= 0.0 min
Primary = 7.56 cfs @ 0.15 hrs, Volume= 0.229 af
Routed to Pond CI-A5 : CURB INLET A5

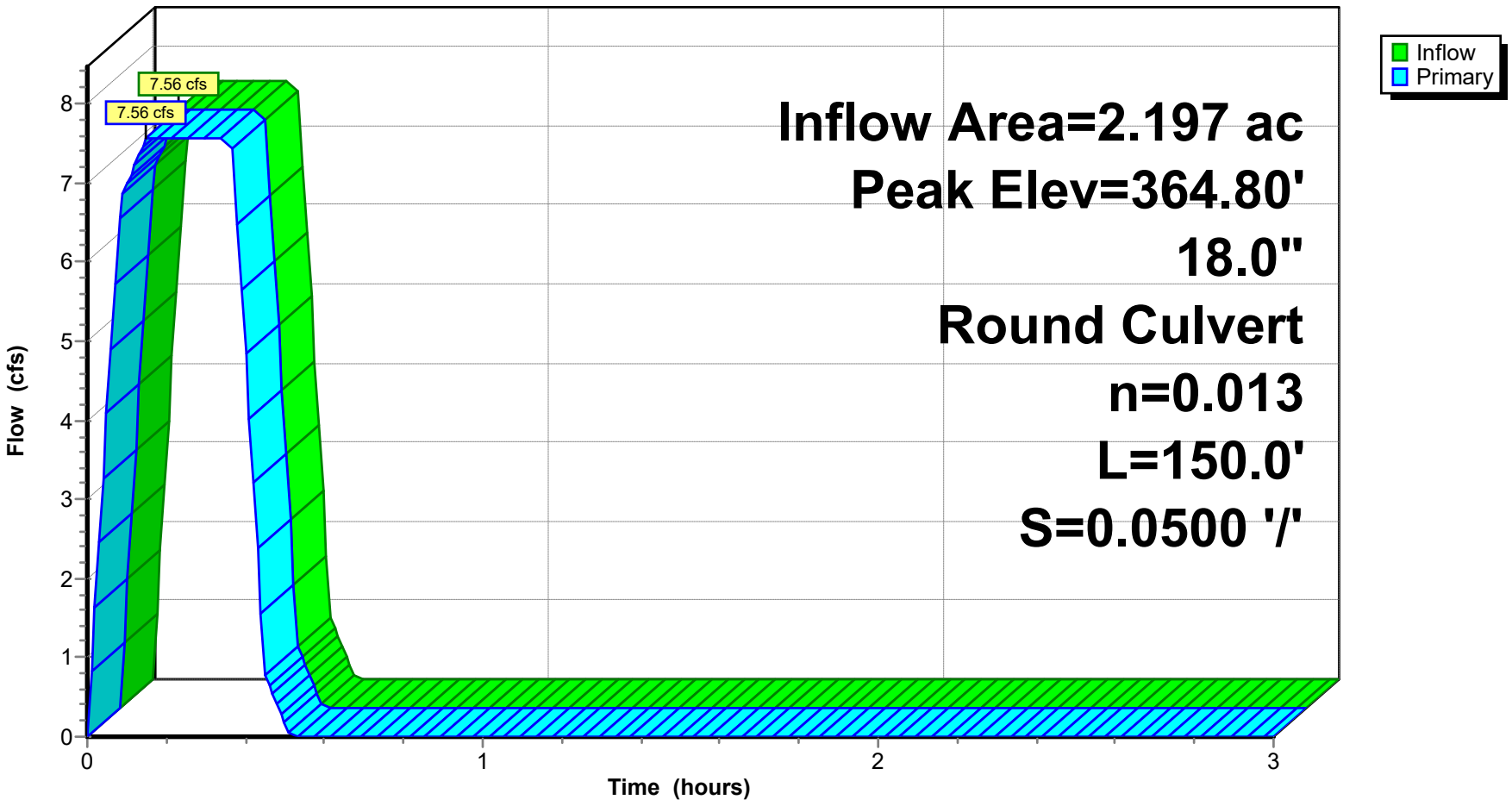
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 364.80' @ 0.15 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	363.62'	**18.0" Round RCP_Round 18"** L= 150.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 363.62' / 356.12' S= 0.0500 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.77 sf

Primary OutFlow Max=7.56 cfs @ 0.15 hrs HW=364.80' (Free Discharge)
1=RCP_Round 18" (Inlet Controls 7.56 cfs @ 5.05 fps)

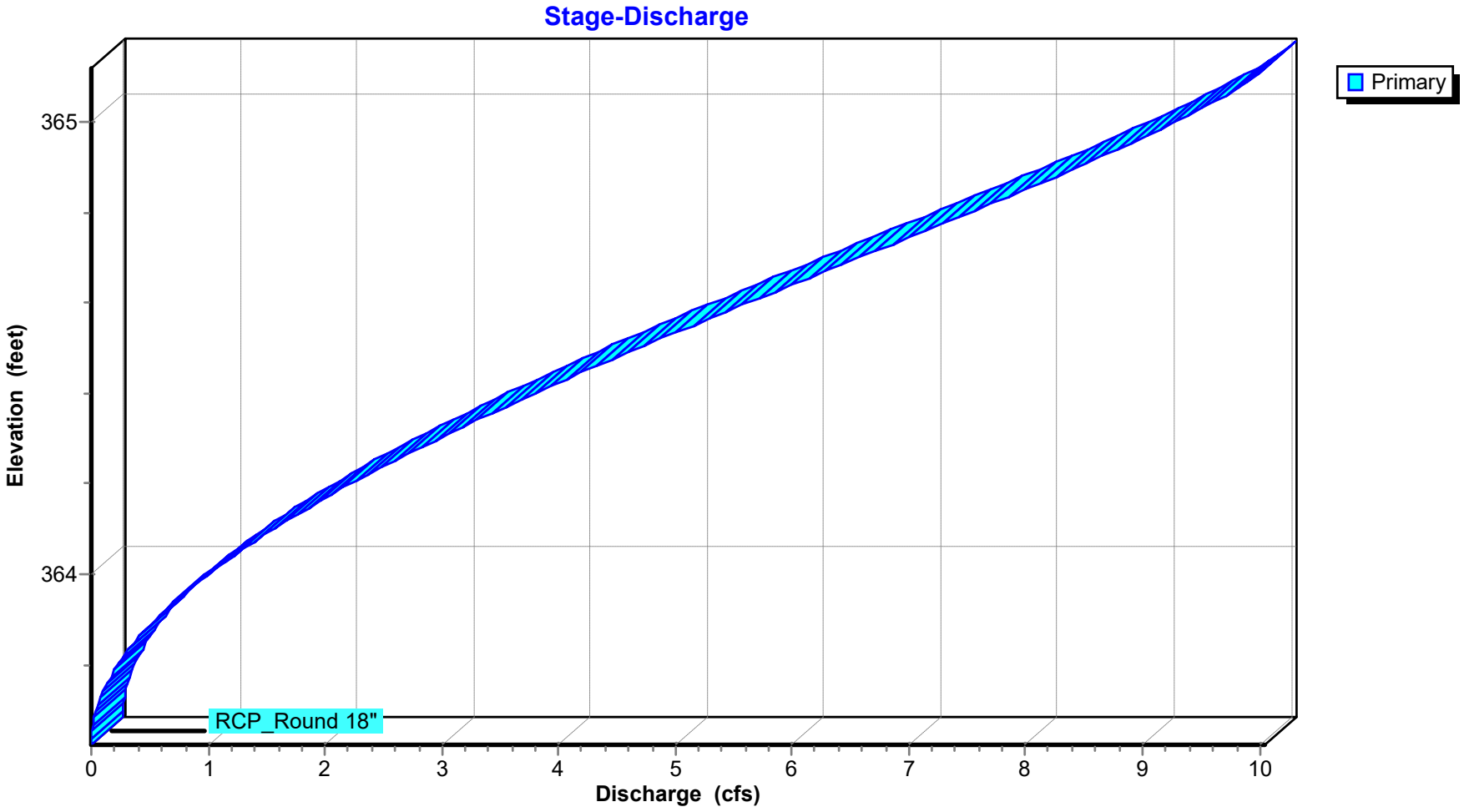
Pond CI-A4: CURB INLET A4

Hydrograph



Pond CI-A4: CURB INLET A4

Stage-Discharge



Stage-Area-Storage for Pond CI-A4: CURB INLET A4

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
363.62	**0.000**	364.54	0.000
363.63	0.000	364.55	0.000
363.64	0.000	364.56	0.000
363.65	0.000	364.57	0.000
363.66	0.000	364.58	0.000
363.67	0.000	364.59	0.000
363.68	0.000	364.60	0.000
363.69	0.000	364.61	0.000
363.70	0.000	364.62	0.000
363.71	0.000	364.63	0.000
363.72	0.000	364.64	0.000
363.73	0.000	364.65	0.000
363.74	0.000	364.66	0.000
363.75	0.000	364.67	0.000
363.76	0.000	364.68	0.000
363.77	0.000	364.69	0.000
363.78	0.000	364.70	0.000
363.79	0.000	364.71	0.000
363.80	0.000	364.72	0.000
363.81	0.000	364.73	0.000
363.82	0.000	364.74	0.000
363.83	0.000	364.75	0.000
363.84	0.000	364.76	0.000
363.85	0.000	364.77	0.000
363.86	0.000	364.78	0.000
363.87	0.000	364.79	0.000
363.88	0.000	364.80	0.000
363.89	0.000	364.81	0.000
363.90	0.000	364.82	0.000
363.91	0.000	364.83	0.000
363.92	0.000	364.84	0.000
363.93	0.000	364.85	0.000
363.94	0.000	364.86	0.000
363.95	0.000	364.87	0.000
363.96	0.000	364.88	0.000
363.97	0.000	364.89	0.000
363.98	0.000	364.90	0.000
363.99	0.000	364.91	0.000
364.00	0.000	364.92	0.000
364.01	0.000	364.93	0.000
364.02	0.000	364.94	0.000
364.03	0.000	364.95	0.000
364.04	0.000	364.96	0.000
364.05	0.000	364.97	0.000
364.06	0.000	364.98	0.000
364.07	0.000	364.99	0.000
364.08	0.000	365.00	0.000
364.09	0.000	365.01	0.000
364.10	0.000	365.02	0.000
364.11	0.000	365.03	0.000
364.12	0.000	365.04	0.000
364.13	0.000	365.05	0.000
364.14	0.000	365.06	0.000
364.15	0.000	365.07	0.000
364.16	0.000	365.08	0.000
364.17	0.000	365.09	0.000
364.18	0.000	365.10	0.000
364.19	0.000	365.11	0.000
364.20	0.000	365.12	0.000
364.21	0.000		
364.22	0.000		
364.23	0.000		
364.24	0.000		
364.25	0.000		
364.26	0.000		
364.27	0.000		
364.28	0.000		
364.29	0.000		
364.30	0.000		
364.31	0.000		
364.32	0.000		
364.33	0.000		
364.34	0.000		
364.35	0.000		
364.36	0.000		
364.37	0.000		
364.38	0.000		
364.39	0.000		
364.40	0.000		
364.41	0.000		
364.42	0.000		
364.43	0.000		
364.44	0.000		
364.45	0.000		
364.46	0.000		
364.47	0.000		
364.48	0.000		
364.49	0.000		
364.50	0.000		
364.51	0.000		
364.52	0.000		
364.53	0.000		

Summary for Pond CI-A5: CURB INLET A5

Inflow Area = 2.439 ac, 0.00% Impervious, Inflow Depth = 1.21" for 25-yr event
Inflow = 8.14 cfs @ 0.15 hrs, Volume= 0.247 af
Outflow = 8.14 cfs @ 0.15 hrs, Volume= 0.247 af, Atten= 0%, Lag= 0.0 min
Primary = 8.14 cfs @ 0.15 hrs, Volume= 0.247 af
Routed to Link POST-DEV : Post-Development

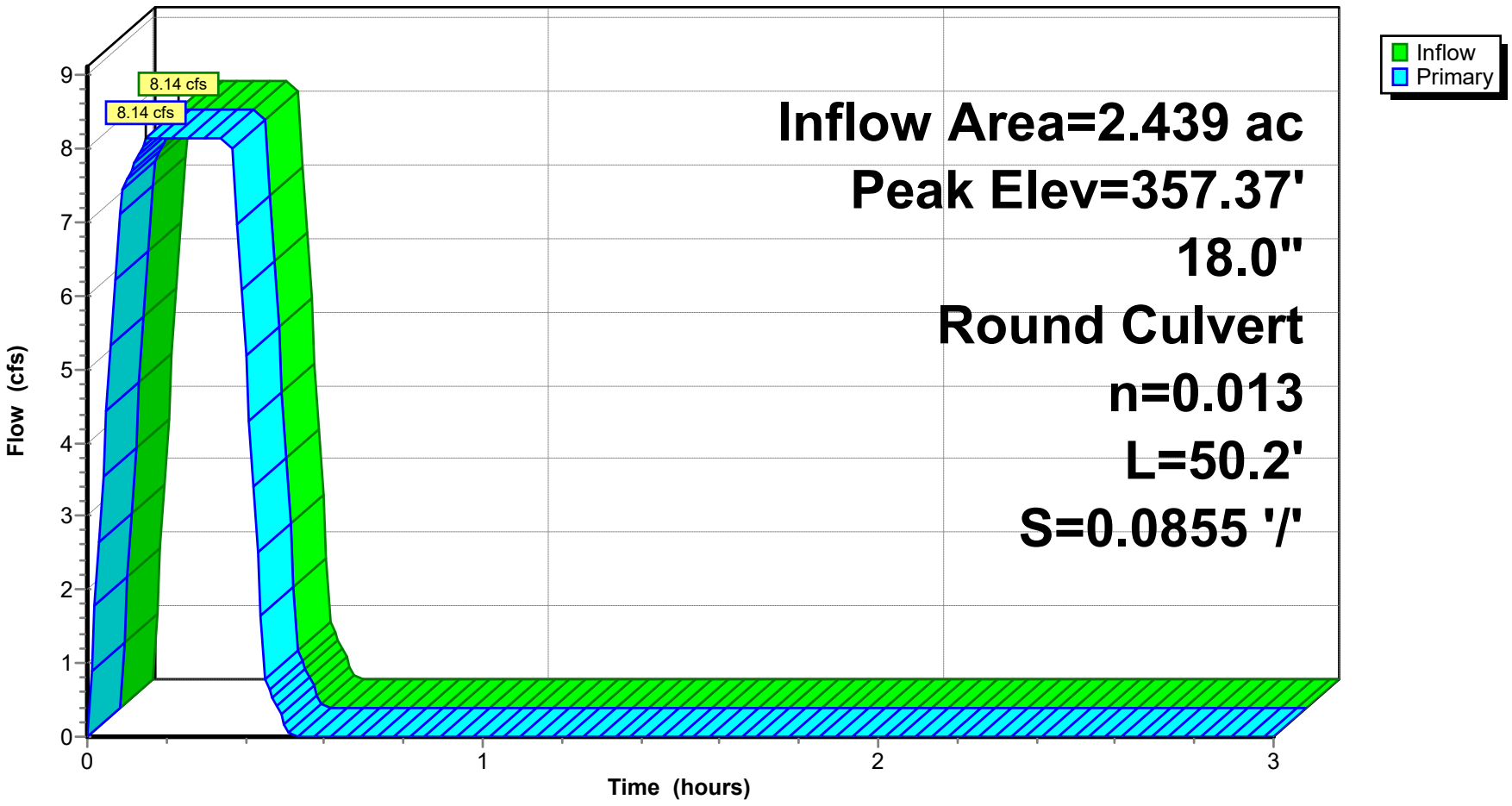
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 357.37' @ 0.15 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	356.12'	**18.0" Round RCP_Round 18** L= 50.2' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 356.12' / 351.83' S= 0.0855 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.77 sf

Primary OutFlow Max=8.14 cfs @ 0.15 hrs HW=357.37' (Free Discharge)
└**1=RCP_Round 18** (Inlet Controls 8.14 cfs @ 5.19 fps)

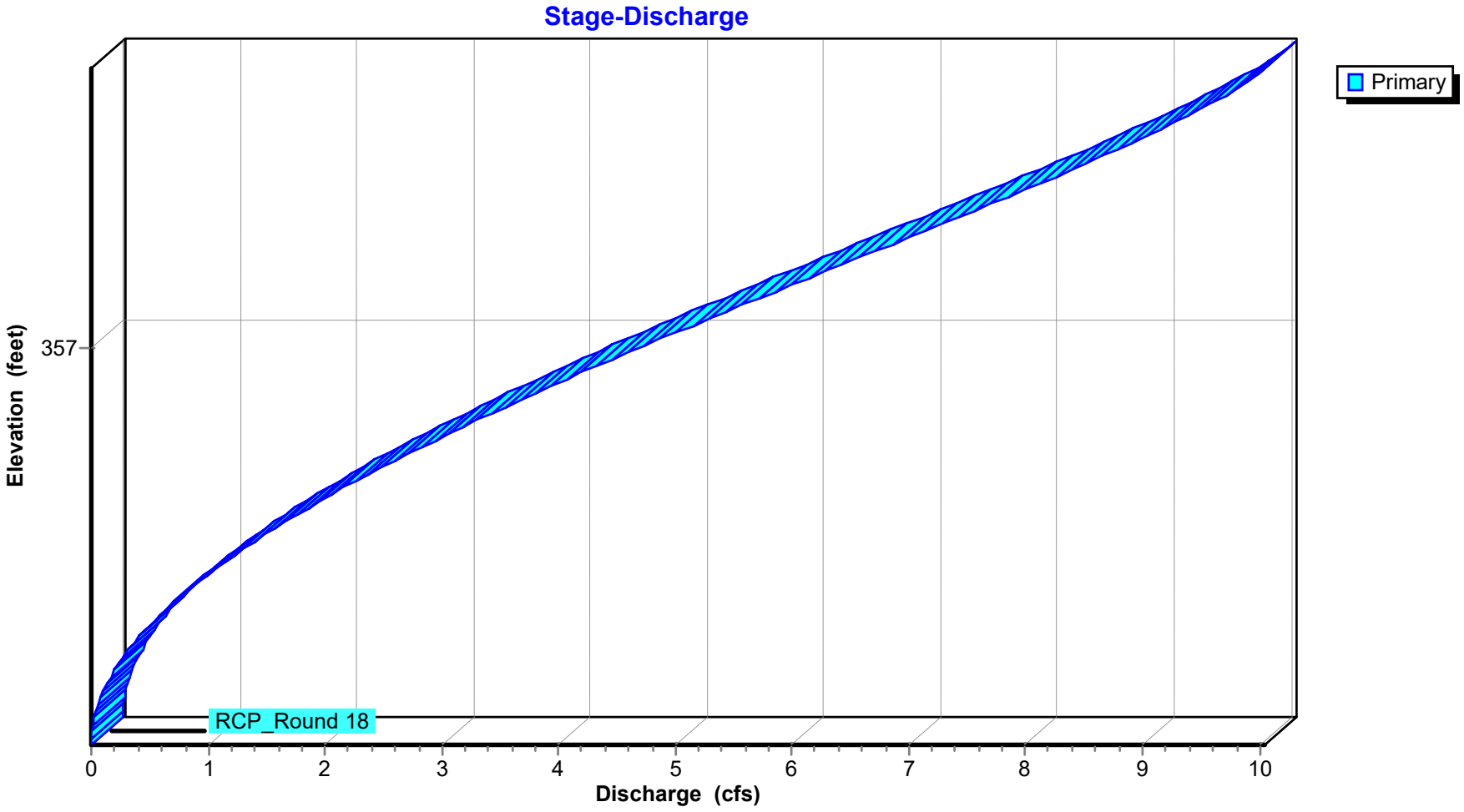
Pond CI-A5: CURB INLET A5

Hydrograph



Pond CI-A5: CURB INLET A5

Stage-Discharge



Stage-Area-Storage for Pond CI-A5: CURB INLET A5

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
356.12	**0.000**	357.04	0.000
356.13	0.000	357.05	0.000
356.14	0.000	357.06	0.000
356.15	0.000	357.07	0.000
356.16	0.000	357.08	0.000
356.17	0.000	357.09	0.000
356.18	0.000	357.10	0.000
356.19	0.000	357.11	0.000
356.20	0.000	357.12	0.000
356.21	0.000	357.13	0.000
356.22	0.000	357.14	0.000
356.23	0.000	357.15	0.000
356.24	0.000	357.16	0.000
356.25	0.000	357.17	0.000
356.26	0.000	357.18	0.000
356.27	0.000	357.19	0.000
356.28	0.000	357.20	0.000
356.29	0.000	357.21	0.000
356.30	0.000	357.22	0.000
356.31	0.000	357.23	0.000
356.32	0.000	357.24	0.000
356.33	0.000	357.25	0.000
356.34	0.000	357.26	0.000
356.35	0.000	357.27	0.000
356.36	0.000	357.28	0.000
356.37	0.000	357.29	0.000
356.38	0.000	357.30	0.000
356.39	0.000	357.31	0.000
356.40	0.000	357.32	0.000
356.41	0.000	357.33	0.000
356.42	0.000	357.34	0.000
356.43	0.000	357.35	0.000
356.44	0.000	357.36	0.000
356.45	0.000	357.37	0.000
356.46	0.000	357.38	0.000
356.47	0.000	357.39	0.000
356.48	0.000	357.40	0.000
356.49	0.000	357.41	0.000
356.50	0.000	357.42	0.000
356.51	0.000	357.43	0.000
356.52	0.000	357.44	0.000
356.53	0.000	357.45	0.000
356.54	0.000	357.46	0.000
356.55	0.000	357.47	0.000
356.56	0.000	357.48	0.000
356.57	0.000	357.49	0.000
356.58	0.000	357.50	0.000
356.59	0.000	357.51	0.000
356.60	0.000	357.52	0.000
356.61	0.000	357.53	0.000
356.62	0.000	357.54	0.000
356.63	0.000	357.55	0.000
356.64	0.000	357.56	0.000
356.65	0.000	357.57	0.000
356.66	0.000	357.58	0.000
356.67	0.000	357.59	0.000
356.68	0.000	357.60	0.000
356.69	0.000	357.61	0.000
356.70	0.000	357.62	0.000
356.71	0.000		
356.72	0.000		
356.73	0.000		
356.74	0.000		
356.75	0.000		
356.76	0.000		
356.77	0.000		
356.78	0.000		
356.79	0.000		
356.80	0.000		
356.81	0.000		
356.82	0.000		
356.83	0.000		
356.84	0.000		
356.85	0.000		
356.86	0.000		
356.87	0.000		
356.88	0.000		
356.89	0.000		
356.90	0.000		
356.91	0.000		
356.92	0.000		
356.93	0.000		
356.94	0.000		
356.95	0.000		
356.96	0.000		
356.97	0.000		
356.98	0.000		
356.99	0.000		
357.00	0.000		
357.01	0.000		
357.02	0.000		
357.03	0.000		

Summary for Pond CI-C1: CURB INLET C1

Inflow Area = 0.210 ac, 0.00% Impervious, Inflow Depth = 1.06" for 25-yr event
Inflow = 0.61 cfs @ 0.09 hrs, Volume= 0.019 af
Outflow = 0.61 cfs @ 0.09 hrs, Volume= 0.019 af, Atten= 0%, Lag= 0.0 min
Primary = 0.61 cfs @ 0.09 hrs, Volume= 0.019 af
Routed to Pond CI-C2 : CURB INLET C2

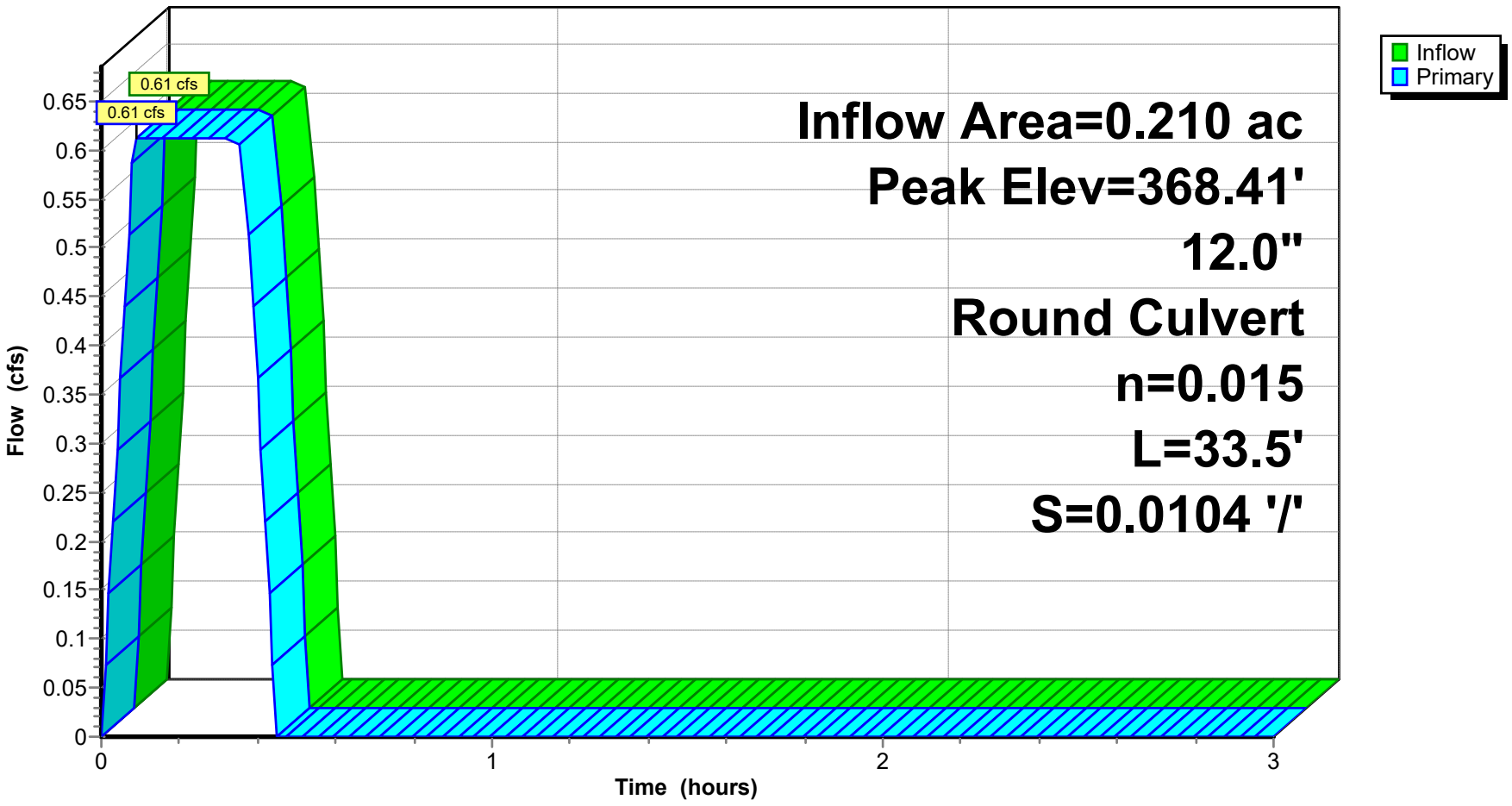
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 368.41' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	368.00'	**12.0" Round RCP_ROUND 12"** L= 33.5' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 368.00' / 367.65' S= 0.0104 '/' Cc= 0.900 n= 0.015 Concrete sewer w/manholes & inlets, Flow Area= 0.79 sf

Primary OutFlow Max=0.61 cfs @ 0.09 hrs HW=368.41' (Free Discharge)
1=RCP_ROUND 12" (Barrel Controls 0.61 cfs @ 2.95 fps)

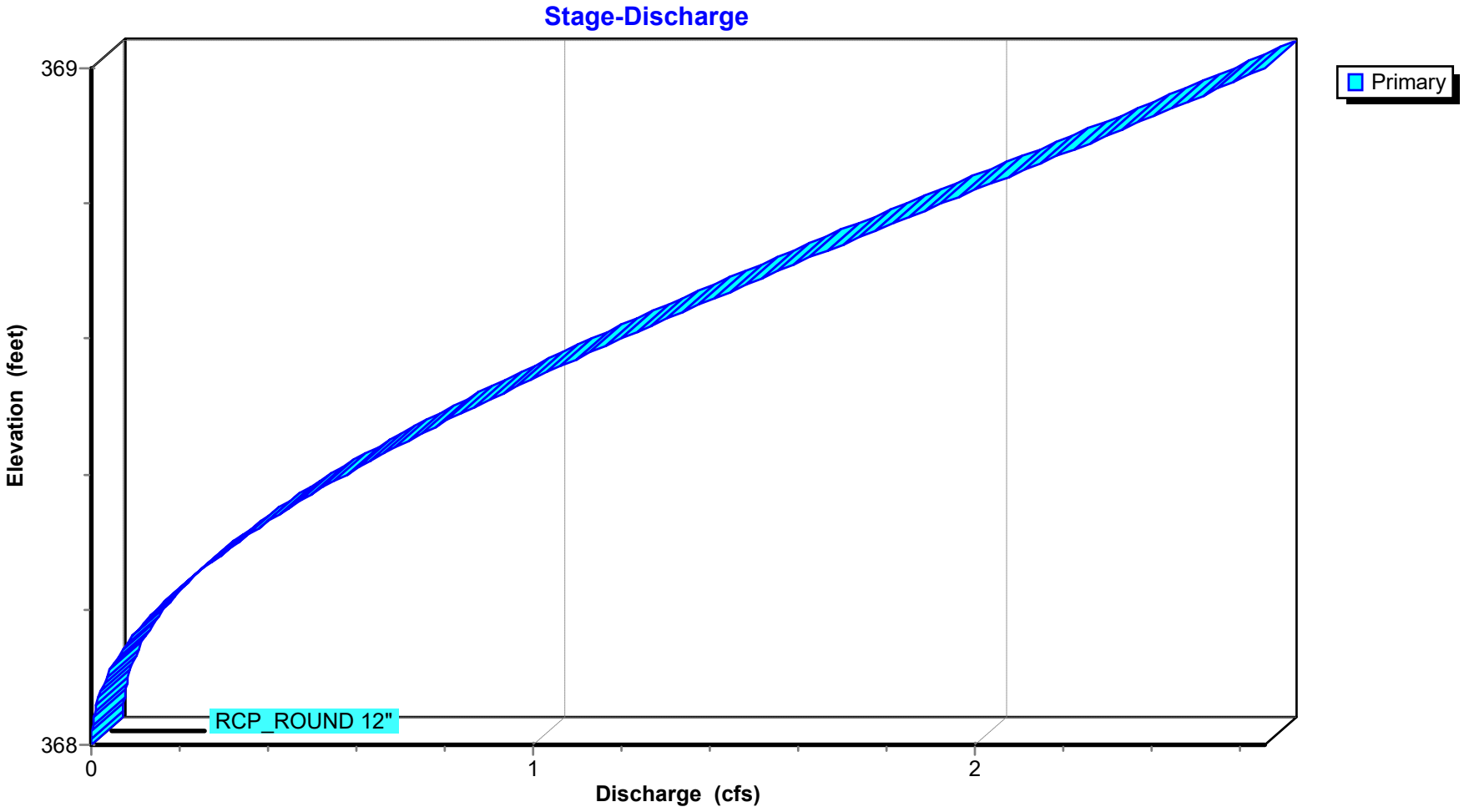
Pond CI-C1: CURB INLET C1

Hydrograph



Pond CI-C1: CURB INLET C1

Stage-Discharge



Stage-Area-Storage for Pond CI-C1: CURB INLET C1

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
368.00	**0.000**	368.92	0.000
368.01	0.000	368.93	0.000
368.02	0.000	368.94	0.000
368.03	0.000	368.95	0.000
368.04	0.000	368.96	0.000
368.05	0.000	368.97	0.000
368.06	0.000	368.98	0.000
368.07	0.000	368.99	0.000
368.08	0.000	369.00	0.000
368.09	0.000		
368.10	0.000		
368.11	0.000		
368.12	0.000		
368.13	0.000		
368.14	0.000		
368.15	0.000		
368.16	0.000		
368.17	0.000		
368.18	0.000		
368.19	0.000		
368.20	0.000		
368.21	0.000		
368.22	0.000		
368.23	0.000		
368.24	0.000		
368.25	0.000		
368.26	0.000		
368.27	0.000		
368.28	0.000		
368.29	0.000		
368.30	0.000		
368.31	0.000		
368.32	0.000		
368.33	0.000		
368.34	0.000		
368.35	0.000		
368.36	0.000		
368.37	0.000		
368.38	0.000		
368.39	0.000		
368.40	0.000		
368.41	0.000		
368.42	0.000		
368.43	0.000		
368.44	0.000		
368.45	0.000		
368.46	0.000		
368.47	0.000		
368.48	0.000		
368.49	0.000		
368.50	0.000		
368.51	0.000		
368.52	0.000		
368.53	0.000		
368.54	0.000		
368.55	0.000		
368.56	0.000		
368.57	0.000		
368.58	0.000		
368.59	0.000		
368.60	0.000		
368.61	0.000		
368.62	0.000		
368.63	0.000		
368.64	0.000		
368.65	0.000		
368.66	0.000		
368.67	0.000		
368.68	0.000		
368.69	0.000		
368.70	0.000		
368.71	0.000		
368.72	0.000		
368.73	0.000		
368.74	0.000		
368.75	0.000		
368.76	0.000		
368.77	0.000		
368.78	0.000		
368.79	0.000		
368.80	0.000		
368.81	0.000		
368.82	0.000		
368.83	0.000		
368.84	0.000		
368.85	0.000		
368.86	0.000		
368.87	0.000		
368.88	0.000		
368.89	0.000		
368.90	0.000		
368.91	0.000		

Summary for Pond CI-C2: CURB INLET C2

Inflow Area = 0.247 ac, 0.00% Impervious, Inflow Depth = 1.05" for 25-yr event
Inflow = 0.72 cfs @ 0.09 hrs, Volume= 0.022 af
Outflow = 0.72 cfs @ 0.09 hrs, Volume= 0.022 af, Atten= 0%, Lag= 0.0 min
Primary = 0.72 cfs @ 0.09 hrs, Volume= 0.022 af
Routed to Pond JB-C3 : JUNCTION BOX C3

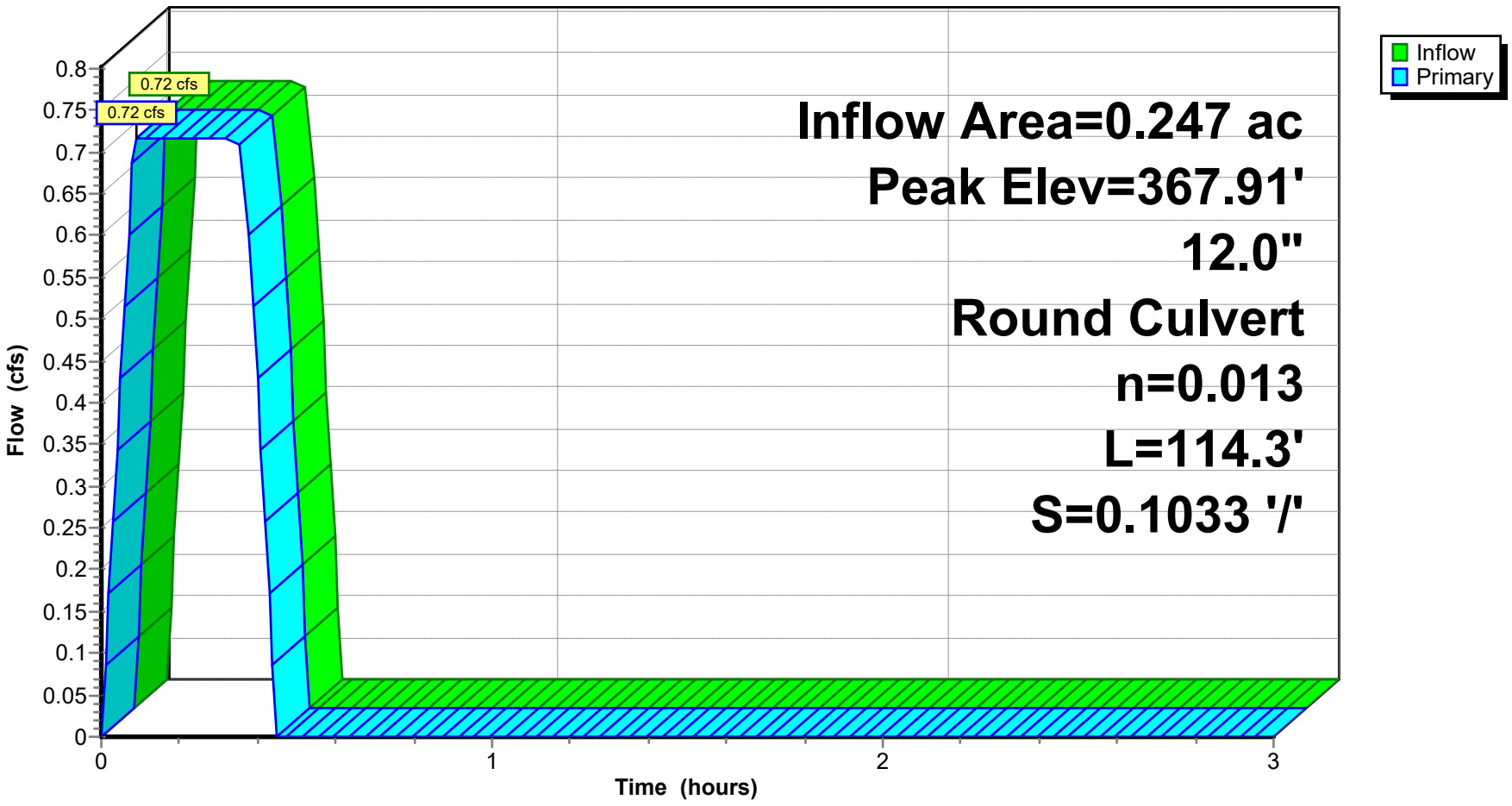
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 367.91' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	367.55'	**12.0" Round RCP_ROUND 12"** L= 114.3' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 367.55' / 355.74' S= 0.1033 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf

Primary OutFlow Max=0.72 cfs @ 0.09 hrs HW=367.91' (Free Discharge)
1=RCP_ROUND 12" (Inlet Controls 0.72 cfs @ 2.79 fps)

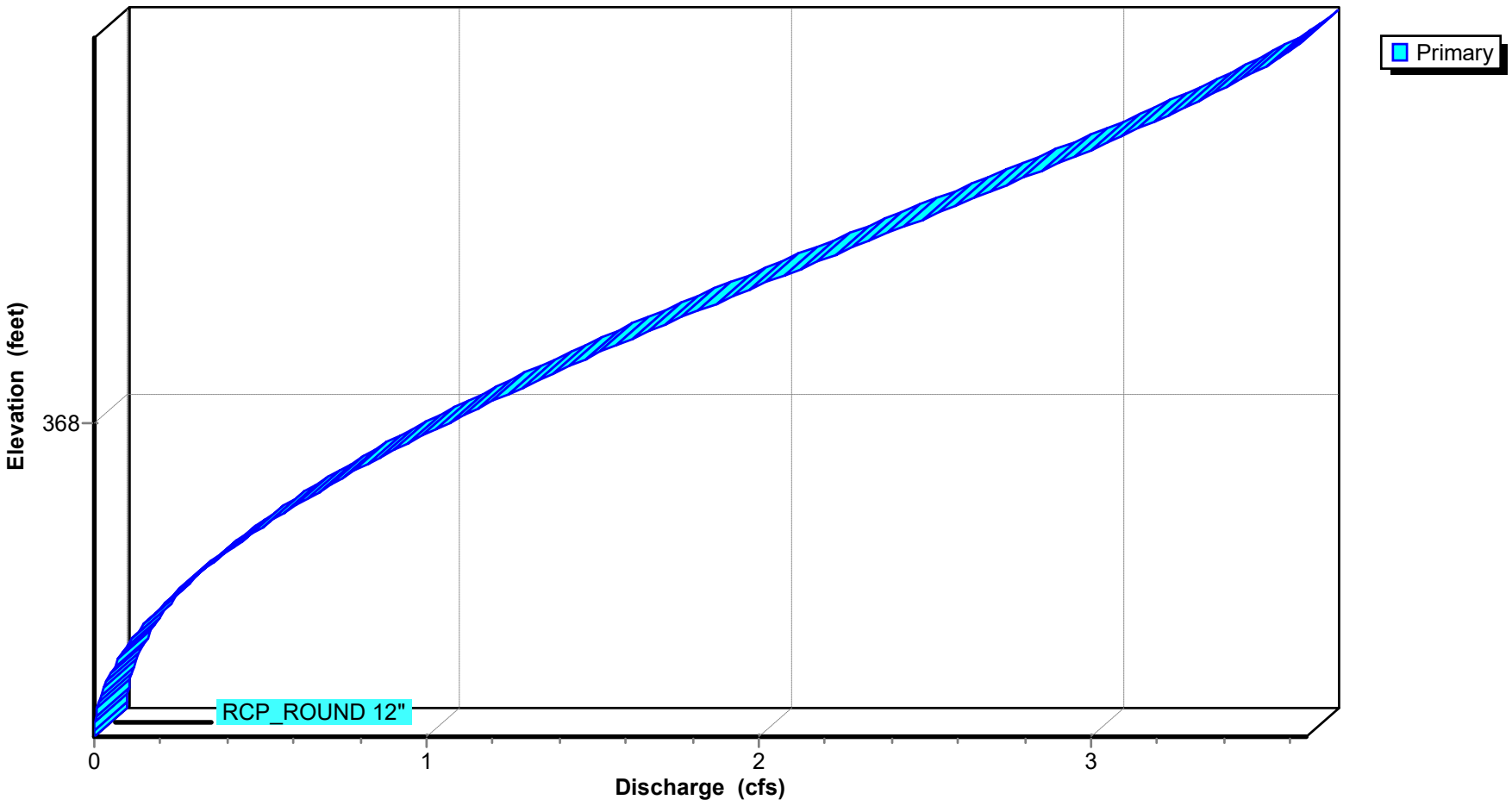
Pond CI-C2: CURB INLET C2

Hydrograph



Pond CI-C2: CURB INLET C2

Stage-Discharge



Stage-Area-Storage for Pond CI-C2: CURB INLET C2

Elevation (feet)	Storage (acre-feet)
367.55	**0.000**
367.56	0.000
367.57	0.000
367.58	0.000
367.59	0.000
367.60	0.000
367.61	0.000
367.62	0.000
367.63	0.000
367.64	0.000
367.65	0.000
367.66	0.000
367.67	0.000
367.68	0.000
367.69	0.000
367.70	0.000
367.71	0.000
367.72	0.000
367.73	0.000
367.74	0.000
367.75	0.000
367.76	0.000
367.77	0.000
367.78	0.000
367.79	0.000
367.80	0.000
367.81	0.000
367.82	0.000
367.83	0.000
367.84	0.000
367.85	0.000
367.86	0.000
367.87	0.000
367.88	0.000
367.89	0.000
367.90	0.000
367.91	0.000
367.92	0.000
367.93	0.000
367.94	0.000
367.95	0.000
367.96	0.000
367.97	0.000
367.98	0.000
367.99	0.000
368.00	0.000
368.01	0.000
368.02	0.000
368.03	0.000
368.04	0.000
368.05	0.000
368.06	0.000
368.07	0.000
368.08	0.000
368.09	0.000
368.10	0.000
368.11	0.000
368.12	0.000
368.13	0.000
368.14	0.000
368.15	0.000
368.16	0.000
368.17	0.000
368.18	0.000
368.19	0.000
368.20	0.000
368.21	0.000
368.22	0.000
368.23	0.000
368.24	0.000
368.25	0.000
368.26	0.000
368.27	0.000
368.28	0.000
368.29	0.000
368.30	0.000
368.31	0.000
368.32	0.000
368.33	0.000
368.34	0.000
368.35	0.000
368.36	0.000
368.37	0.000
368.38	0.000
368.39	0.000
368.40	0.000
368.41	0.000
368.42	0.000
368.43	0.000
368.44	0.000
368.45	0.000
368.46	0.000
368.47	0.000
368.48	0.000
368.49	0.000
368.50	0.000
368.51	0.000
368.52	0.000
368.53	0.000
368.54	0.000
368.55	0.000

Summary for Pond CI-C4: CURB INLET C4

Inflow Area = 0.965 ac, 0.00% Impervious, Inflow Depth = 1.06" for 25-yr event
Inflow = 2.81 cfs @ 0.09 hrs, Volume= 0.085 af
Outflow = 2.81 cfs @ 0.10 hrs, Volume= 0.085 af, Atten= 0%, Lag= 0.6 min
Primary = 2.81 cfs @ 0.10 hrs, Volume= 0.085 af
Routed to Pond CI-C5 : CURB INLET C5

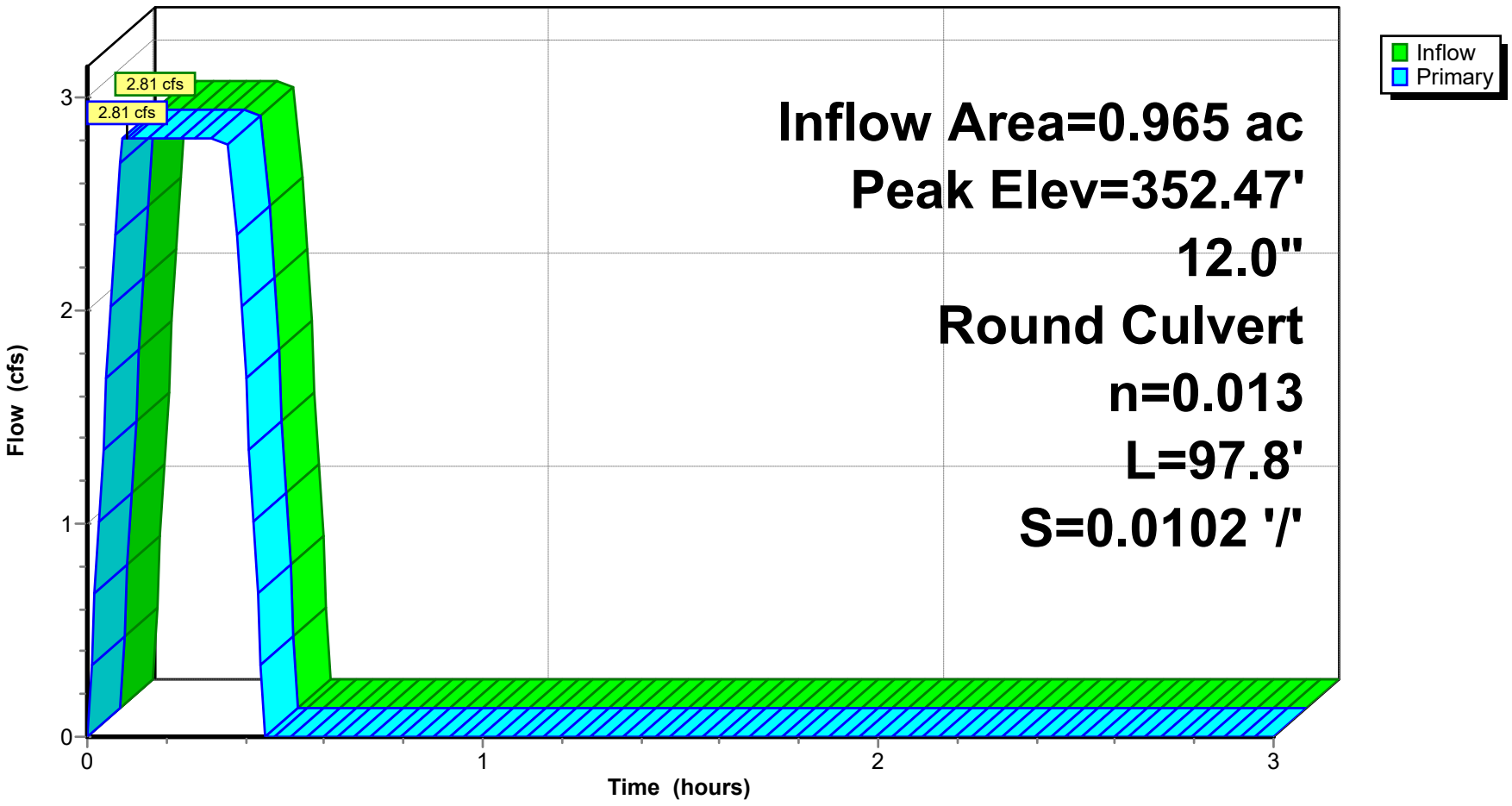
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 352.47' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	351.53'	**12.0" Round RCP_ROUND 12"** L= 97.8' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 351.53' / 350.53' S= 0.0102 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf

Primary OutFlow Max=2.81 cfs @ 0.10 hrs HW=352.47' (Free Discharge)
1=RCP_ROUND 12" (Barrel Controls 2.81 cfs @ 4.74 fps)

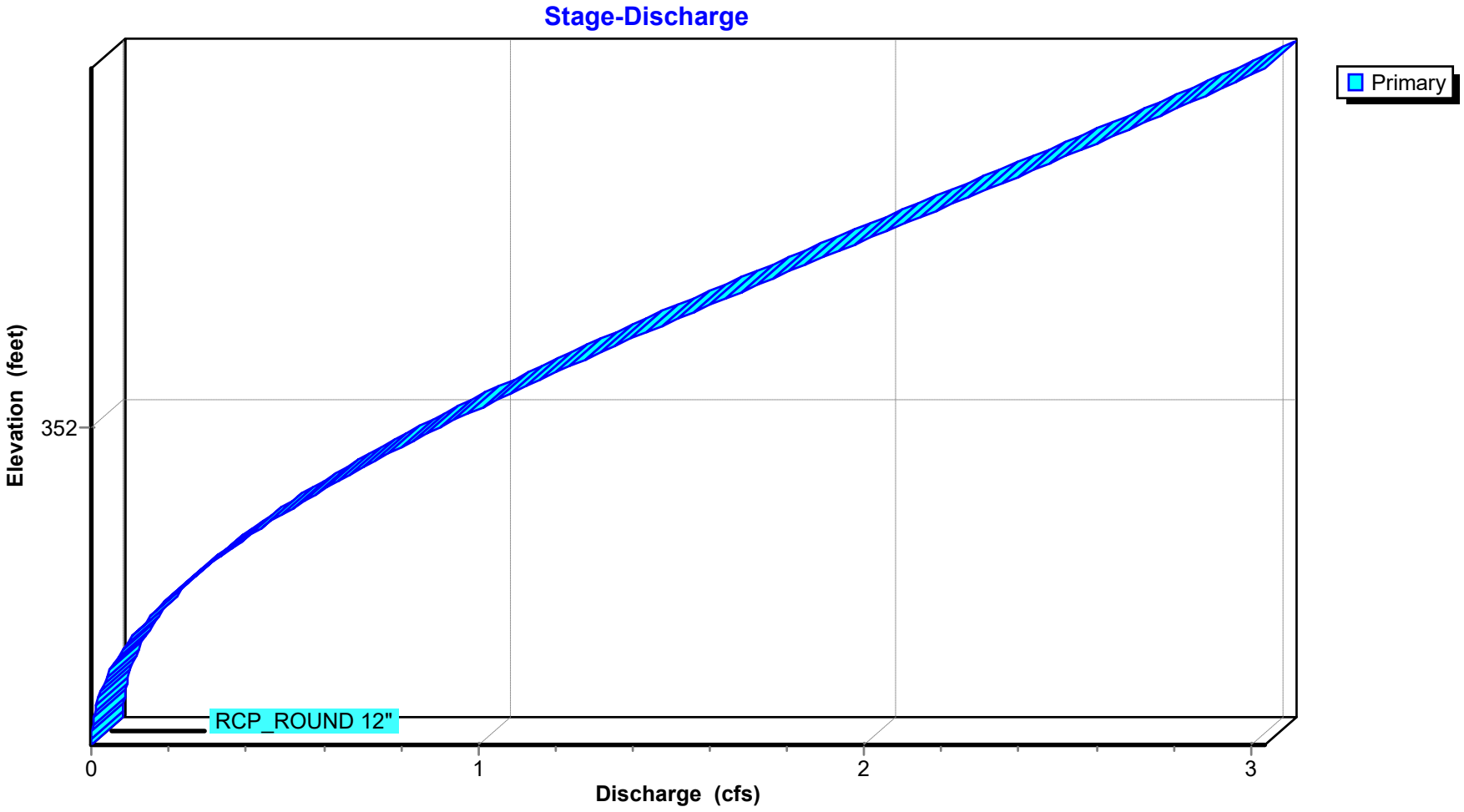
Pond CI-C4: CURB INLET C4

Hydrograph



Pond CI-C4: CURB INLET C4

Stage-Discharge



Stage-Area-Storage for Pond CI-C4: CURB INLET C4

Elevation (feet)	Storage (acre-feet)
351.53	**0.000**
351.54	0.000
351.55	0.000
351.56	0.000
351.57	0.000
351.58	0.000
351.59	0.000
351.60	0.000
351.61	0.000
351.62	0.000
351.63	0.000
351.64	0.000
351.65	0.000
351.66	0.000
351.67	0.000
351.68	0.000
351.69	0.000
351.70	0.000
351.71	0.000
351.72	0.000
351.73	0.000
351.74	0.000
351.75	0.000
351.76	0.000
351.77	0.000
351.78	0.000
351.79	0.000
351.80	0.000
351.81	0.000
351.82	0.000
351.83	0.000
351.84	0.000
351.85	0.000
351.86	0.000
351.87	0.000
351.88	0.000
351.89	0.000
351.90	0.000
351.91	0.000
351.92	0.000
351.93	0.000
351.94	0.000
351.95	0.000
351.96	0.000
351.97	0.000
351.98	0.000
351.99	0.000
352.00	0.000
352.01	0.000
352.02	0.000
352.03	0.000
352.04	0.000
352.05	0.000
352.06	0.000
352.07	0.000
352.08	0.000
352.09	0.000
352.10	0.000
352.11	0.000
352.12	0.000
352.13	0.000
352.14	0.000
352.15	0.000
352.16	0.000
352.17	0.000
352.18	0.000
352.19	0.000
352.20	0.000
352.21	0.000
352.22	0.000
352.23	0.000
352.24	0.000
352.25	0.000
352.26	0.000
352.27	0.000
352.28	0.000
352.29	0.000
352.30	0.000
352.31	0.000
352.32	0.000
352.33	0.000
352.34	0.000
352.35	0.000
352.36	0.000
352.37	0.000
352.38	0.000
352.39	0.000
352.40	0.000
352.41	0.000
352.42	0.000
352.43	0.000
352.44	0.000

Elevation (feet)	Storage (acre-feet)
352.45	0.000
352.46	0.000
352.47	0.000
352.48	0.000
352.49	0.000
352.50	0.000
352.51	0.000
352.52	0.000
352.53	0.000

Summary for Pond CI-C5: CURB INLET C5

Inflow Area = 1.429 ac, 0.00% Impervious, Inflow Depth = 1.03" for 25-yr event
Inflow = 4.05 cfs @ 0.10 hrs, Volume= 0.123 af
Outflow = 4.05 cfs @ 0.10 hrs, Volume= 0.123 af, Atten= 0%, Lag= 0.0 min
Primary = 4.05 cfs @ 0.10 hrs, Volume= 0.123 af
Routed to Link POST-DEV : Post-Development

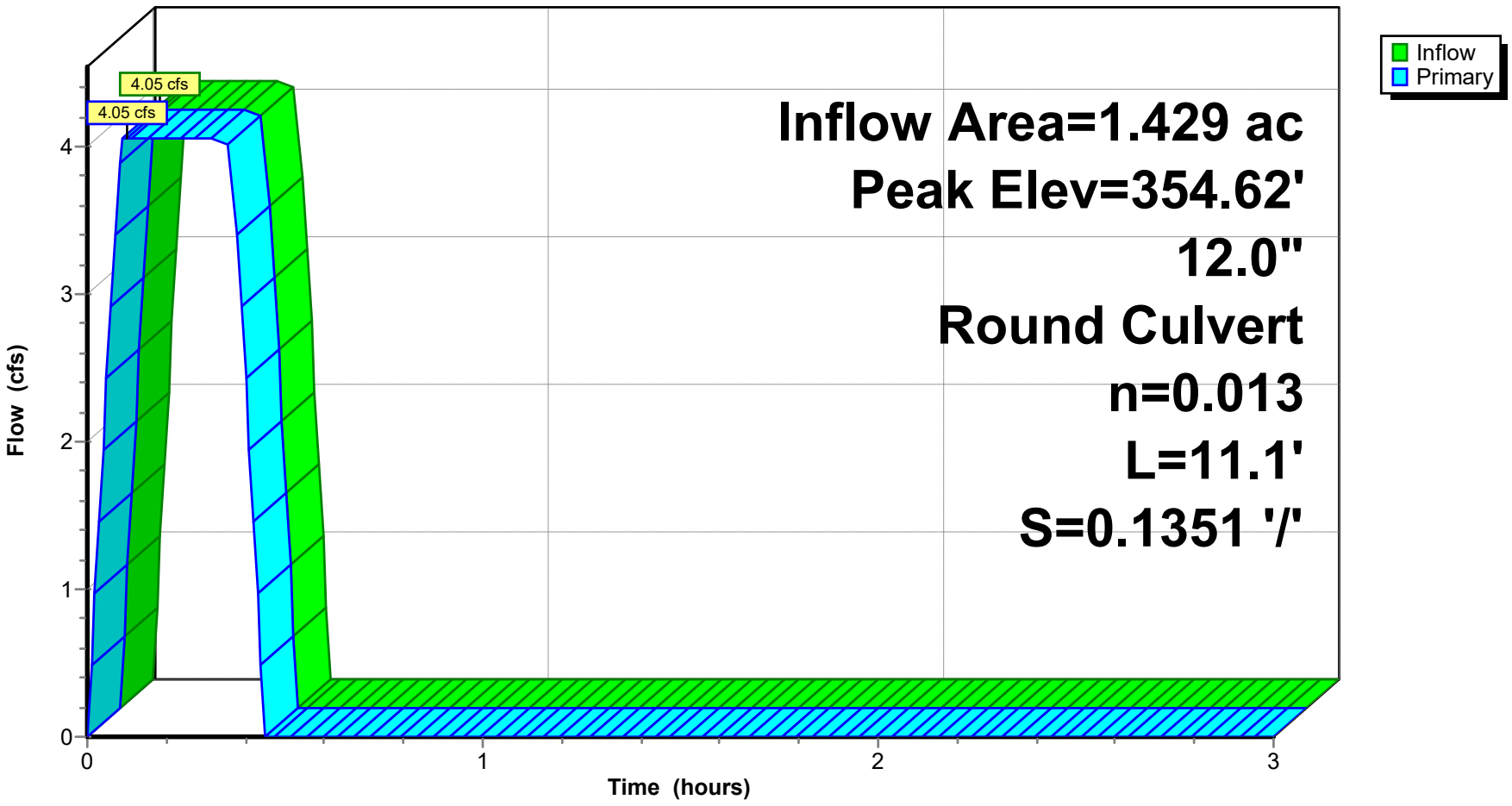
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 354.62' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	353.50'	**12.0" Round RCP_ROUND 12"** L= 11.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 353.50' / 352.00' S= 0.1351 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf

Primary OutFlow Max=4.05 cfs @ 0.10 hrs HW=354.62' (Free Discharge)
1=RCP_ROUND 12" (Inlet Controls 4.05 cfs @ 5.16 fps)

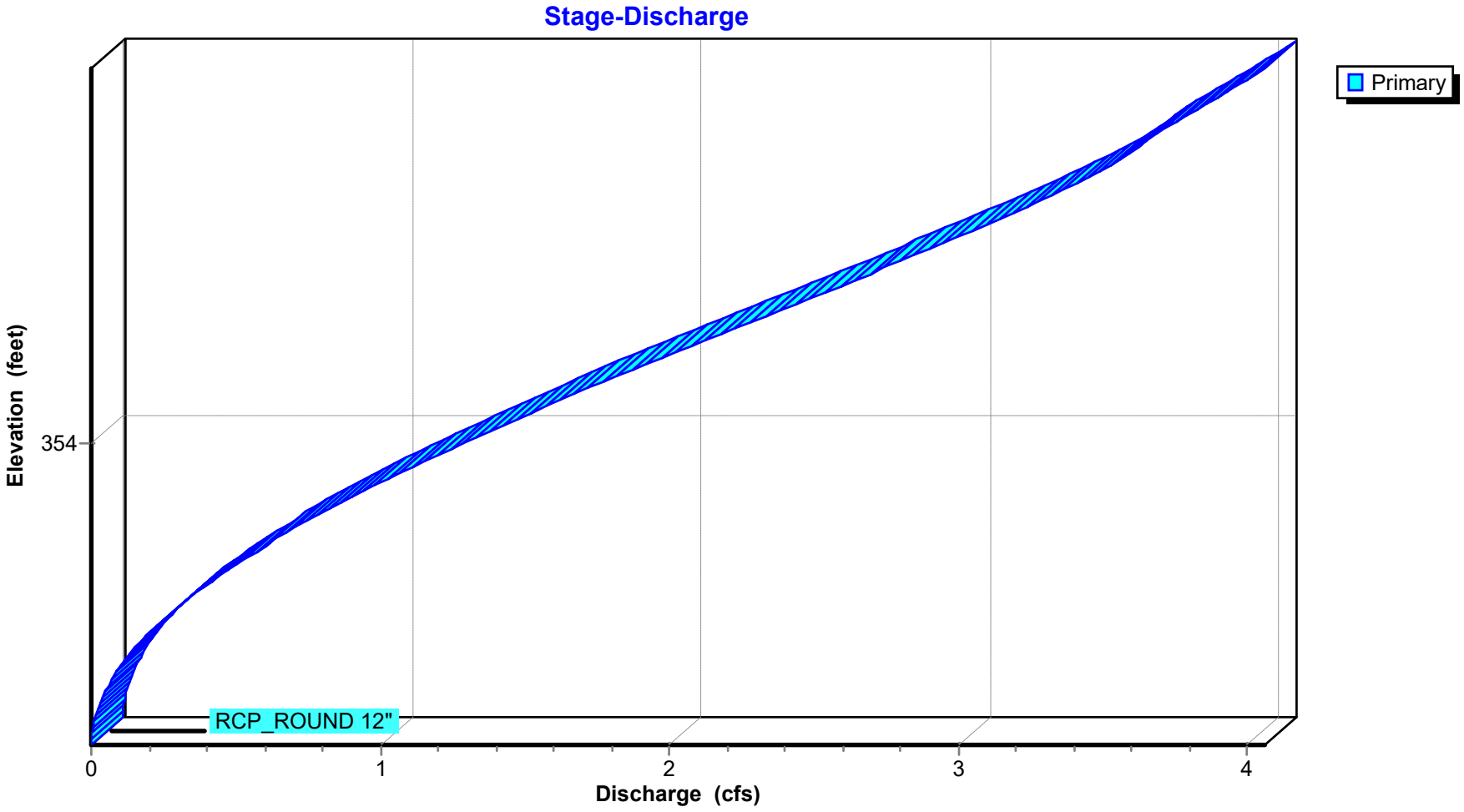
Pond CI-C5: CURB INLET C5

Hydrograph



Pond CI-C5: CURB INLET C5

Stage-Discharge



Stage-Area-Storage for Pond CI-C5: CURB INLET C5

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
353.50	**0.000**	354.42	0.000
353.51	0.000	354.43	0.000
353.52	0.000	354.44	0.000
353.53	0.000	354.45	0.000
353.54	0.000	354.46	0.000
353.55	0.000	354.47	0.000
353.56	0.000	354.48	0.000
353.57	0.000	354.49	0.000
353.58	0.000	354.50	0.000
353.59	0.000	354.51	0.000
353.60	0.000	354.52	0.000
353.61	0.000	354.53	0.000
353.62	0.000	354.54	0.000
353.63	0.000	354.55	0.000
353.64	0.000	354.56	0.000
353.65	0.000	354.57	0.000
353.66	0.000	354.58	0.000
353.67	0.000	354.59	0.000
353.68	0.000	354.60	0.000
353.69	0.000	354.61	0.000
353.70	0.000	354.62	0.000
353.71	0.000		
353.72	0.000		
353.73	0.000		
353.74	0.000		
353.75	0.000		
353.76	0.000		
353.77	0.000		
353.78	0.000		
353.79	0.000		
353.80	0.000		
353.81	0.000		
353.82	0.000		
353.83	0.000		
353.84	0.000		
353.85	0.000		
353.86	0.000		
353.87	0.000		
353.88	0.000		
353.89	0.000		
353.90	0.000		
353.91	0.000		
353.92	0.000		
353.93	0.000		
353.94	0.000		
353.95	0.000		
353.96	0.000		
353.97	0.000		
353.98	0.000		
353.99	0.000		
354.00	0.000		
354.01	0.000		
354.02	0.000		
354.03	0.000		
354.04	0.000		
354.05	0.000		
354.06	0.000		
354.07	0.000		
354.08	0.000		
354.09	0.000		
354.10	0.000		
354.11	0.000		
354.12	0.000		
354.13	0.000		
354.14	0.000		
354.15	0.000		
354.16	0.000		
354.17	0.000		
354.18	0.000		
354.19	0.000		
354.20	0.000		
354.21	0.000		
354.22	0.000		
354.23	0.000		
354.24	0.000		
354.25	0.000		
354.26	0.000		
354.27	0.000		
354.28	0.000		
354.29	0.000		
354.30	0.000		
354.31	0.000		
354.32	0.000		
354.33	0.000		
354.34	0.000		
354.35	0.000		
354.36	0.000		
354.37	0.000		
354.38	0.000		
354.39	0.000		
354.40	0.000		
354.41	0.000		

Summary for Pond CI-D1: CURB INLET D1

Inflow Area = 0.627 ac, 0.00% Impervious, Inflow Depth = 1.02" for 25-yr event
Inflow = 1.76 cfs @ 0.09 hrs, Volume= 0.053 af
Outflow = 1.76 cfs @ 0.09 hrs, Volume= 0.053 af, Atten= 0%, Lag= 0.0 min
Primary = 1.76 cfs @ 0.09 hrs, Volume= 0.053 af
Routed to Pond CI-C4 : CURB INLET C4

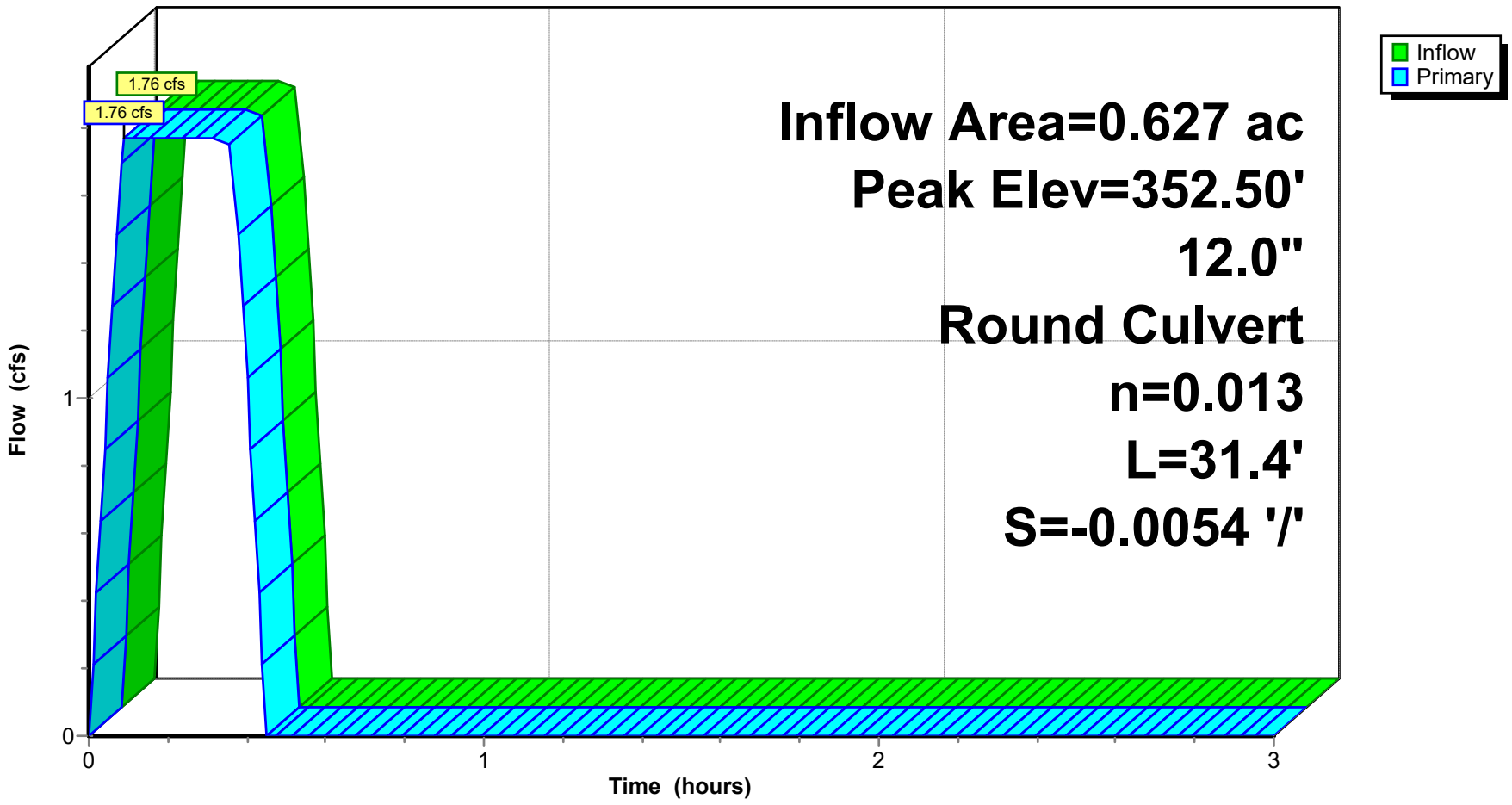
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 352.50' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	351.70'	**12.0" Round RCP_ROUND 12"** L= 31.4' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 351.53' / 351.70' S= -0.0054 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf

Primary OutFlow Max=1.76 cfs @ 0.09 hrs HW=352.50' (Free Discharge)
1=RCP_ROUND 12" (Barrel Controls 1.76 cfs @ 2.89 fps)

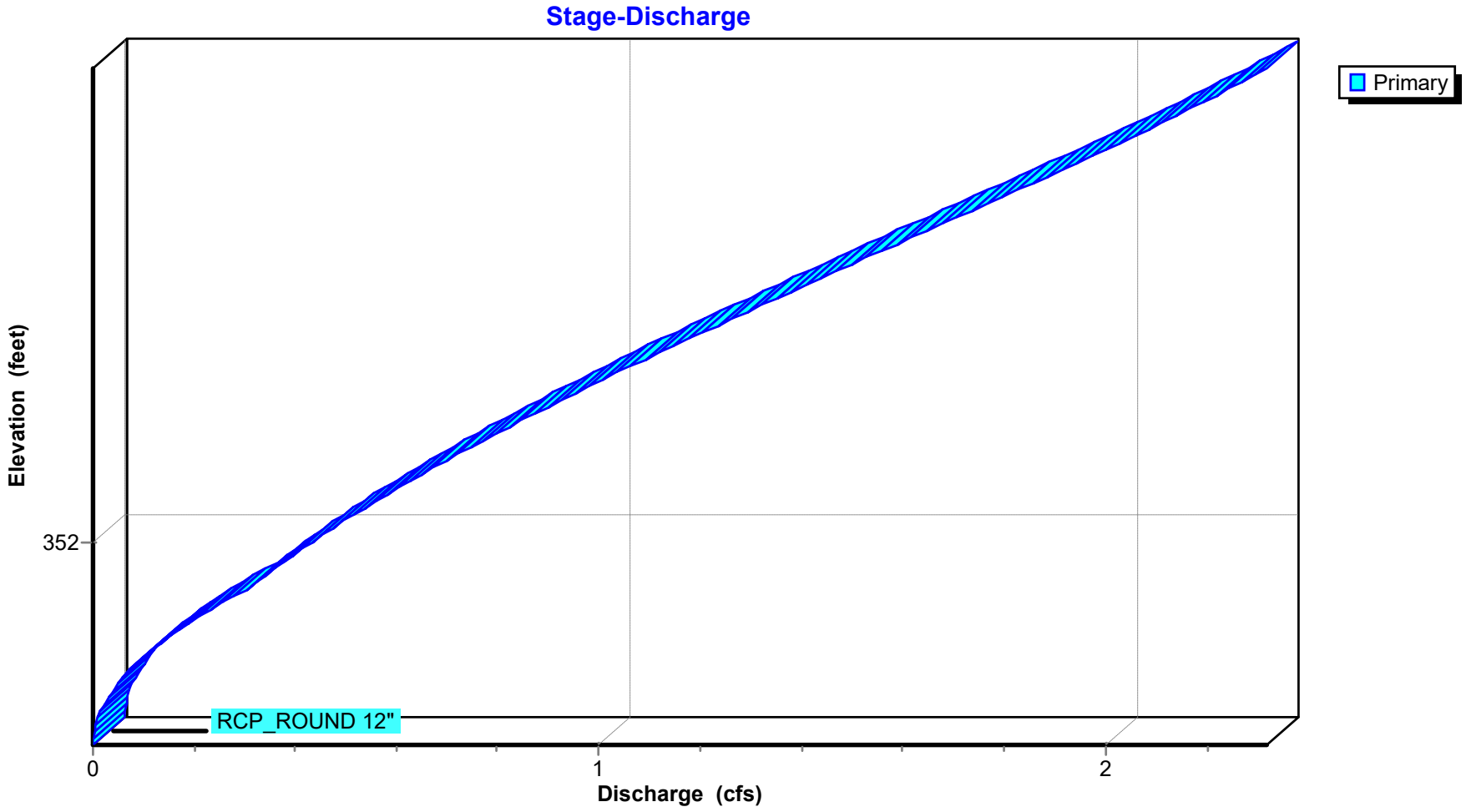
Pond CI-D1: CURB INLET D1

Hydrograph



Pond CI-D1: CURB INLET D1

Stage-Discharge



Stage-Area-Storage for Pond CI-D1: CURB INLET D1

Elevation (feet)	Storage (acre-feet)
351.70	**0.000**
351.71	0.000
351.72	0.000
351.73	0.000
351.74	0.000
351.75	0.000
351.76	0.000
351.77	0.000
351.78	0.000
351.79	0.000
351.80	0.000
351.81	0.000
351.82	0.000
351.83	0.000
351.84	0.000
351.85	0.000
351.86	0.000
351.87	0.000
351.88	0.000
351.89	0.000
351.90	0.000
351.91	0.000
351.92	0.000
351.93	0.000
351.94	0.000
351.95	0.000
351.96	0.000
351.97	0.000
351.98	0.000
351.99	0.000
352.00	0.000
352.01	0.000
352.02	0.000
352.03	0.000
352.04	0.000
352.05	0.000
352.06	0.000
352.07	0.000
352.08	0.000
352.09	0.000
352.10	0.000
352.11	0.000
352.12	0.000
352.13	0.000
352.14	0.000
352.15	0.000
352.16	0.000
352.17	0.000
352.18	0.000
352.19	0.000
352.20	0.000
352.21	0.000
352.22	0.000
352.23	0.000
352.24	0.000
352.25	0.000
352.26	0.000
352.27	0.000
352.28	0.000
352.29	0.000
352.30	0.000
352.31	0.000
352.32	0.000
352.33	0.000
352.34	0.000
352.35	0.000
352.36	0.000
352.37	0.000
352.38	0.000
352.39	0.000
352.40	0.000
352.41	0.000
352.42	0.000
352.43	0.000
352.44	0.000
352.45	0.000
352.46	0.000
352.47	0.000
352.48	0.000
352.49	0.000
352.50	0.000
352.51	0.000
352.52	0.000
352.53	0.000
352.54	0.000
352.55	0.000
352.56	0.000
352.57	0.000
352.58	0.000
352.59	0.000
352.60	0.000
352.61	0.000
352.62	0.000
352.63	0.000
352.64	0.000
352.65	0.000
352.66	0.000
352.67	0.000
352.68	0.000
352.69	0.000
352.70	0.000

Summary for Pond JB-C3: JUNCTION BOX C3

Inflow Area = 0.247 ac, 0.00% Impervious, Inflow Depth = 1.05" for 25-yr event
Inflow = 0.72 cfs @ 0.09 hrs, Volume= 0.022 af
Outflow = 0.72 cfs @ 0.09 hrs, Volume= 0.022 af, Atten= 0%, Lag= 0.0 min
Primary = 0.72 cfs @ 0.09 hrs, Volume= 0.022 af
Routed to Pond CI-C4 : CURB INLET C4

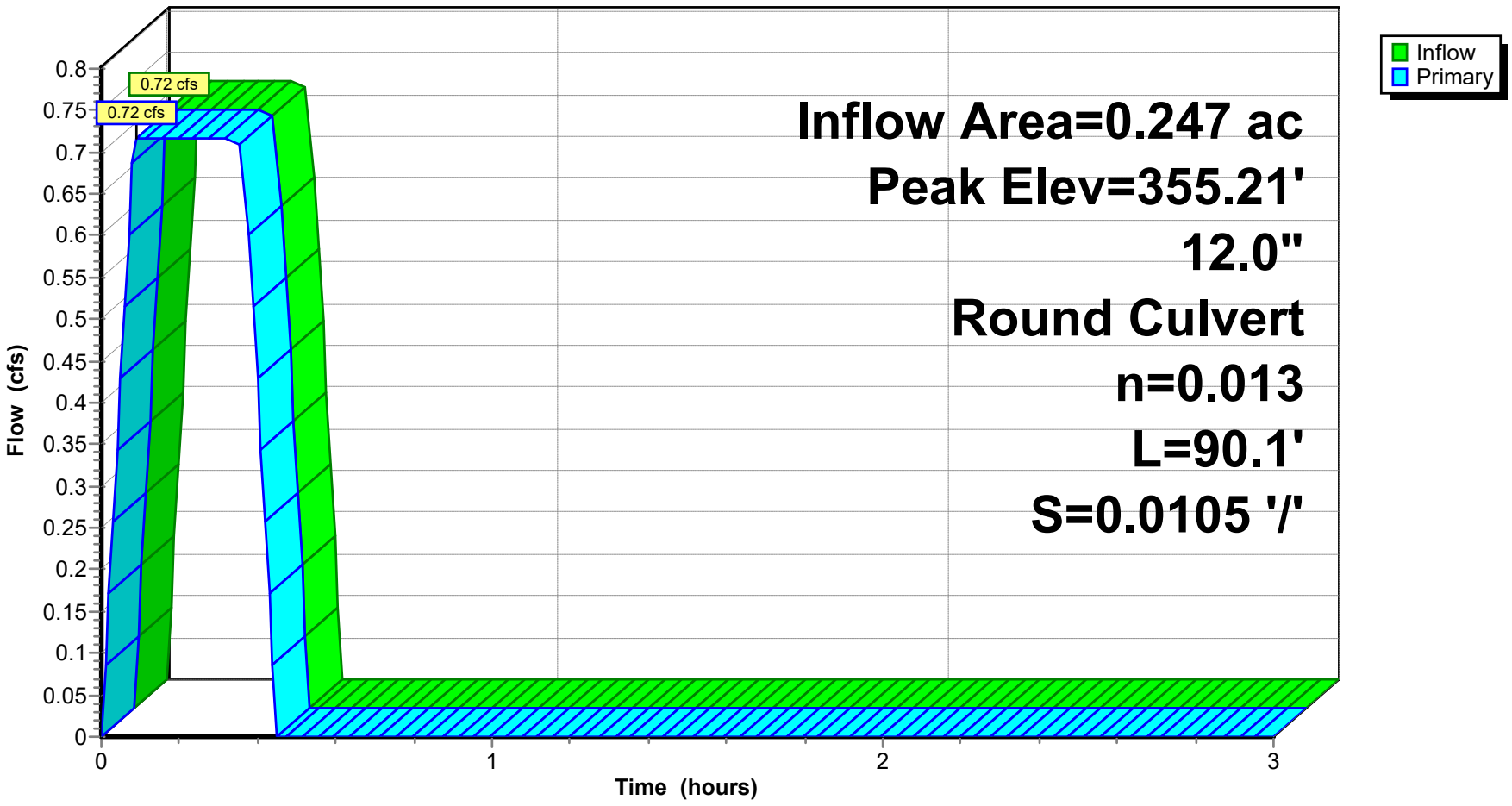
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 355.21' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	354.80'	**12.0" Round RCP_ROUND 12"** L= 90.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 354.80' / 353.85' S= 0.0105 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf

Primary OutFlow Max=0.72 cfs @ 0.09 hrs HW=355.21' (Free Discharge)
1=RCP_ROUND 12" (Barrel Controls 0.72 cfs @ 3.47 fps)

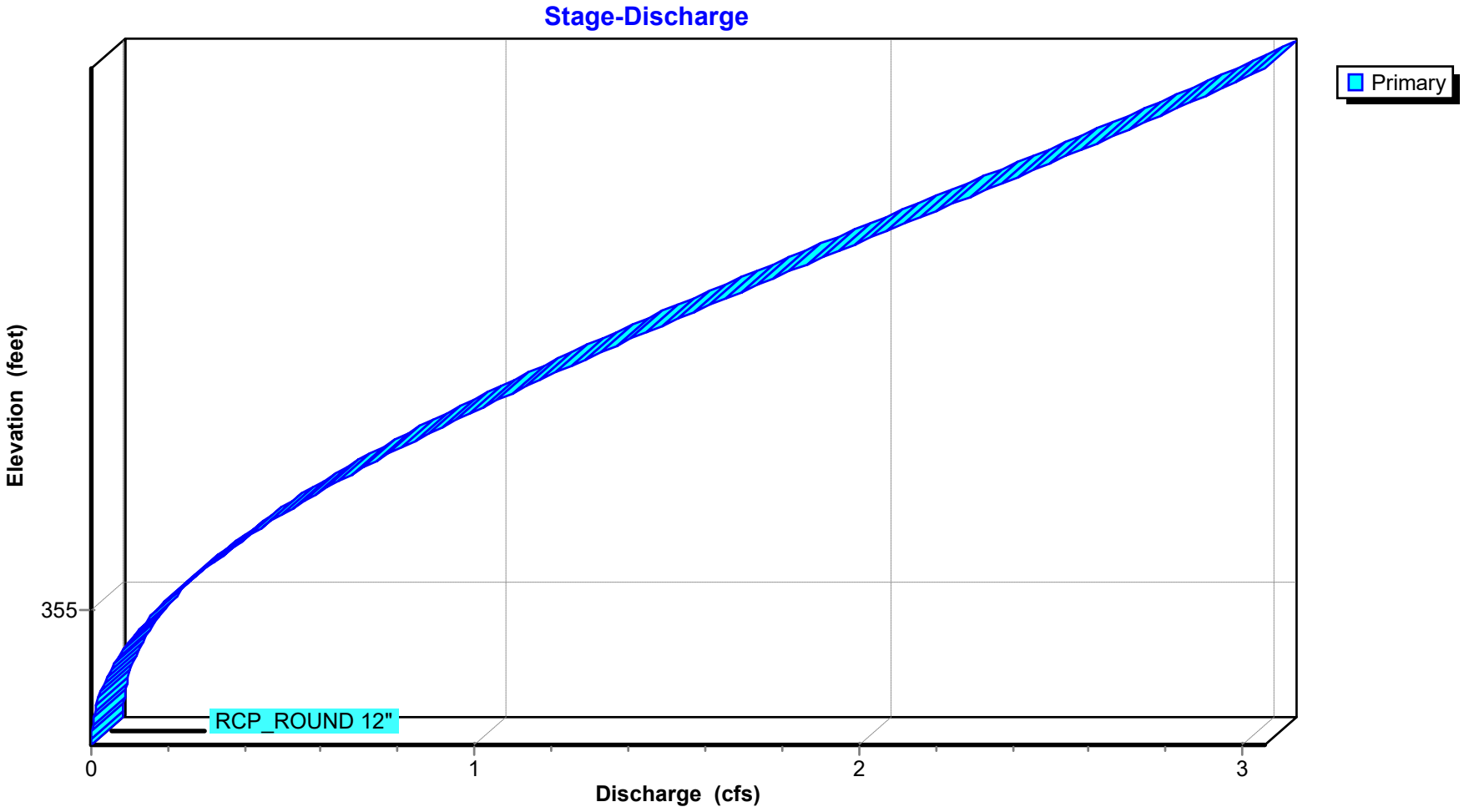
Pond JB-C3: JUNCTION BOX C3

Hydrograph



Pond JB-C3: JUNCTION BOX C3

Stage-Discharge



Stage-Area-Storage for Pond JB-C3: JUNCTION BOX C3

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
354.80	**0.000**	355.72	0.000
354.81	0.000	355.73	0.000
354.82	0.000	355.74	0.000
354.83	0.000	355.75	0.000
354.84	0.000	355.76	0.000
354.85	0.000	355.77	0.000
354.86	0.000	355.78	0.000
354.87	0.000	355.79	0.000
354.88	0.000	355.80	0.000
354.89	0.000		
354.90	0.000		
354.91	0.000		
354.92	0.000		
354.93	0.000		
354.94	0.000		
354.95	0.000		
354.96	0.000		
354.97	0.000		
354.98	0.000		
354.99	0.000		
355.00	0.000		
355.01	0.000		
355.02	0.000		
355.03	0.000		
355.04	0.000		
355.05	0.000		
355.06	0.000		
355.07	0.000		
355.08	0.000		
355.09	0.000		
355.10	0.000		
355.11	0.000		
355.12	0.000		
355.13	0.000		
355.14	0.000		
355.15	0.000		
355.16	0.000		
355.17	0.000		
355.18	0.000		
355.19	0.000		
355.20	0.000		
355.21	0.000		
355.22	0.000		
355.23	0.000		
355.24	0.000		
355.25	0.000		
355.26	0.000		
355.27	0.000		
355.28	0.000		
355.29	0.000		
355.30	0.000		
355.31	0.000		
355.32	0.000		
355.33	0.000		
355.34	0.000		
355.35	0.000		
355.36	0.000		
355.37	0.000		
355.38	0.000		
355.39	0.000		
355.40	0.000		
355.41	0.000		
355.42	0.000		
355.43	0.000		
355.44	0.000		
355.45	0.000		
355.46	0.000		
355.47	0.000		
355.48	0.000		
355.49	0.000		
355.50	0.000		
355.51	0.000		
355.52	0.000		
355.53	0.000		
355.54	0.000		
355.55	0.000		
355.56	0.000		
355.57	0.000		
355.58	0.000		
355.59	0.000		
355.60	0.000		
355.61	0.000		
355.62	0.000		
355.63	0.000		
355.64	0.000		
355.65	0.000		
355.66	0.000		
355.67	0.000		
355.68	0.000		
355.69	0.000		
355.70	0.000		
355.71	0.000		

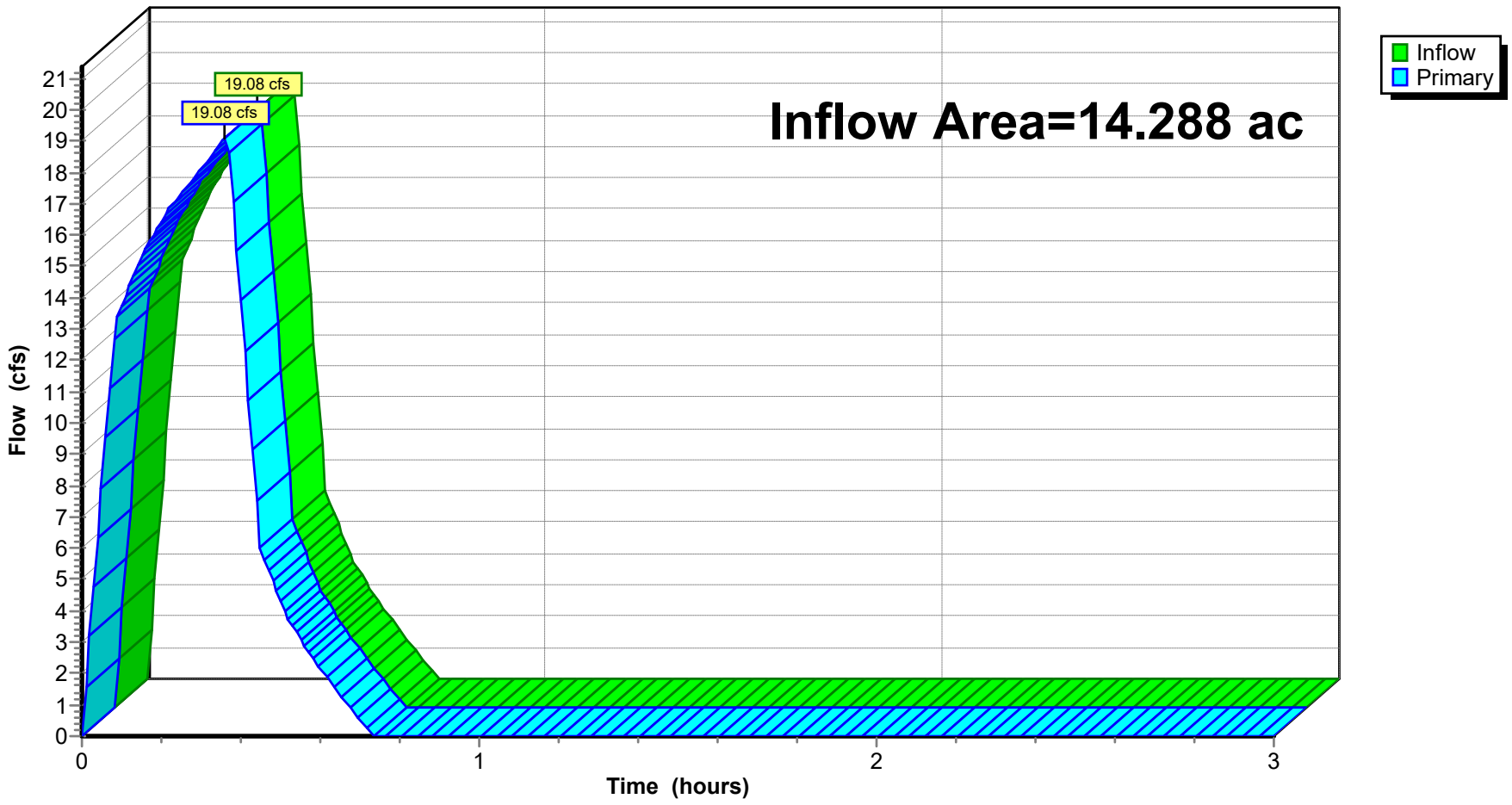
Summary for Link POST-DEV: Post-Development

Inflow Area = 14.288 ac, 0.00% Impervious, Inflow Depth = 0.49" for 25-yr event
Inflow = 19.08 cfs @ 0.36 hrs, Volume= 0.581 af
Primary = 19.08 cfs @ 0.36 hrs, Volume= 0.581 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Link POST-DEV: Post-Development

Hydrograph



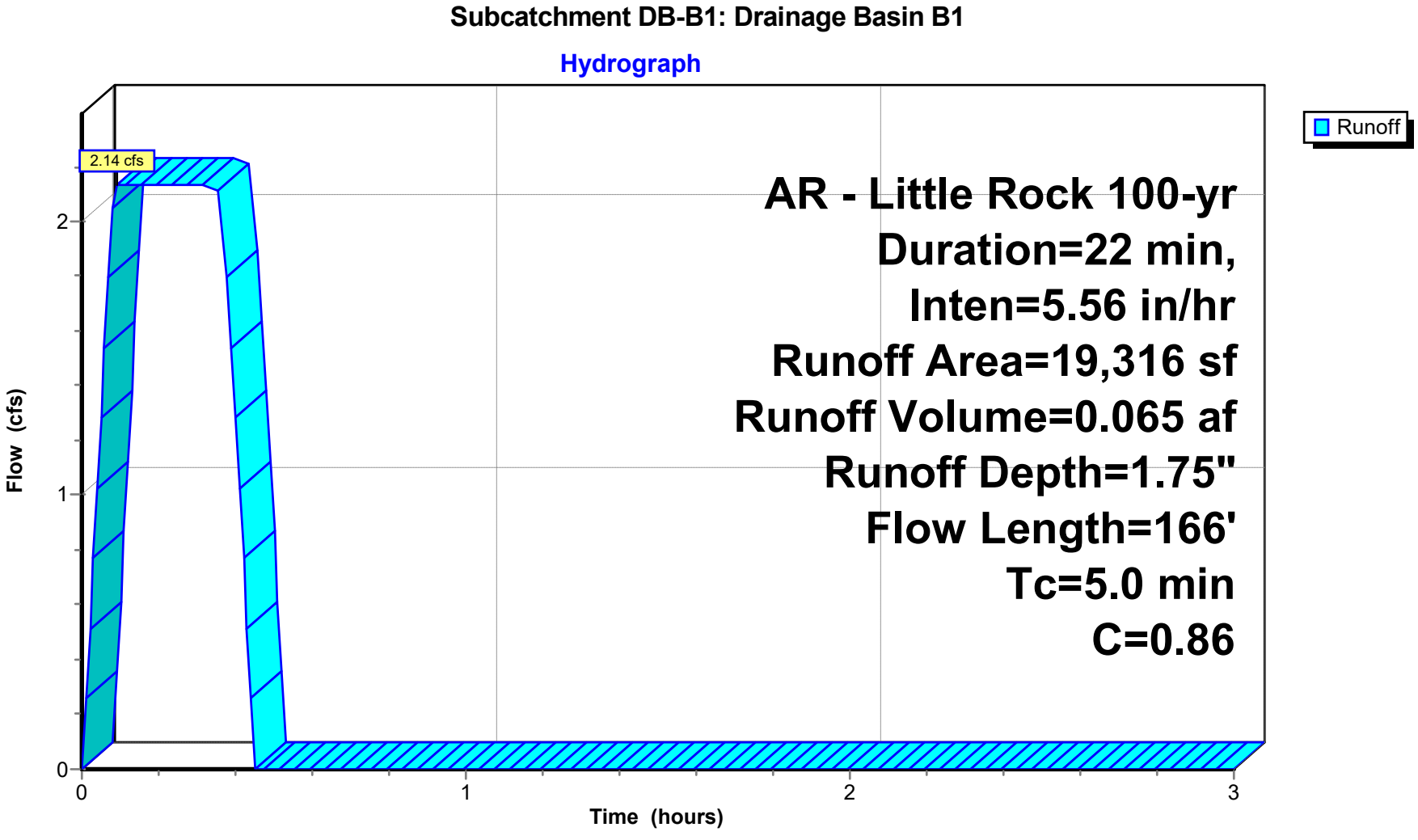
Summary for Subcatchment DB-B1: Drainage Basin B1

Runoff = 2.14 cfs @ 0.09 hrs, Volume= 0.065 af, Depth= 1.75"
Routed to Pond CI-A1 : CURB INLET A1

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 100-yr Duration=22 min, Inten=5.56 in/hr

Area (sf)	C	Description
1,941	0.30	Sandy Soil 2-7% per manual
17,375	0.92	Paved Areas
19,316	0.86	Weighted Average
19,316		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.5	33	0.0200	0.16		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
0.6	67	0.0350	1.82		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.5	66	0.0100	2.03		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
0.4					**Direct Entry, Minimum Adjustment**
5.0	166	Total			



Summary for Subcatchment DB-B10: Drainage Basin B10

Runoff = 0.39 cfs @ 0.09 hrs, Volume= 0.012 af, Depth= 1.57"
Routed to Pond CI-C4 : CURB INLET C4

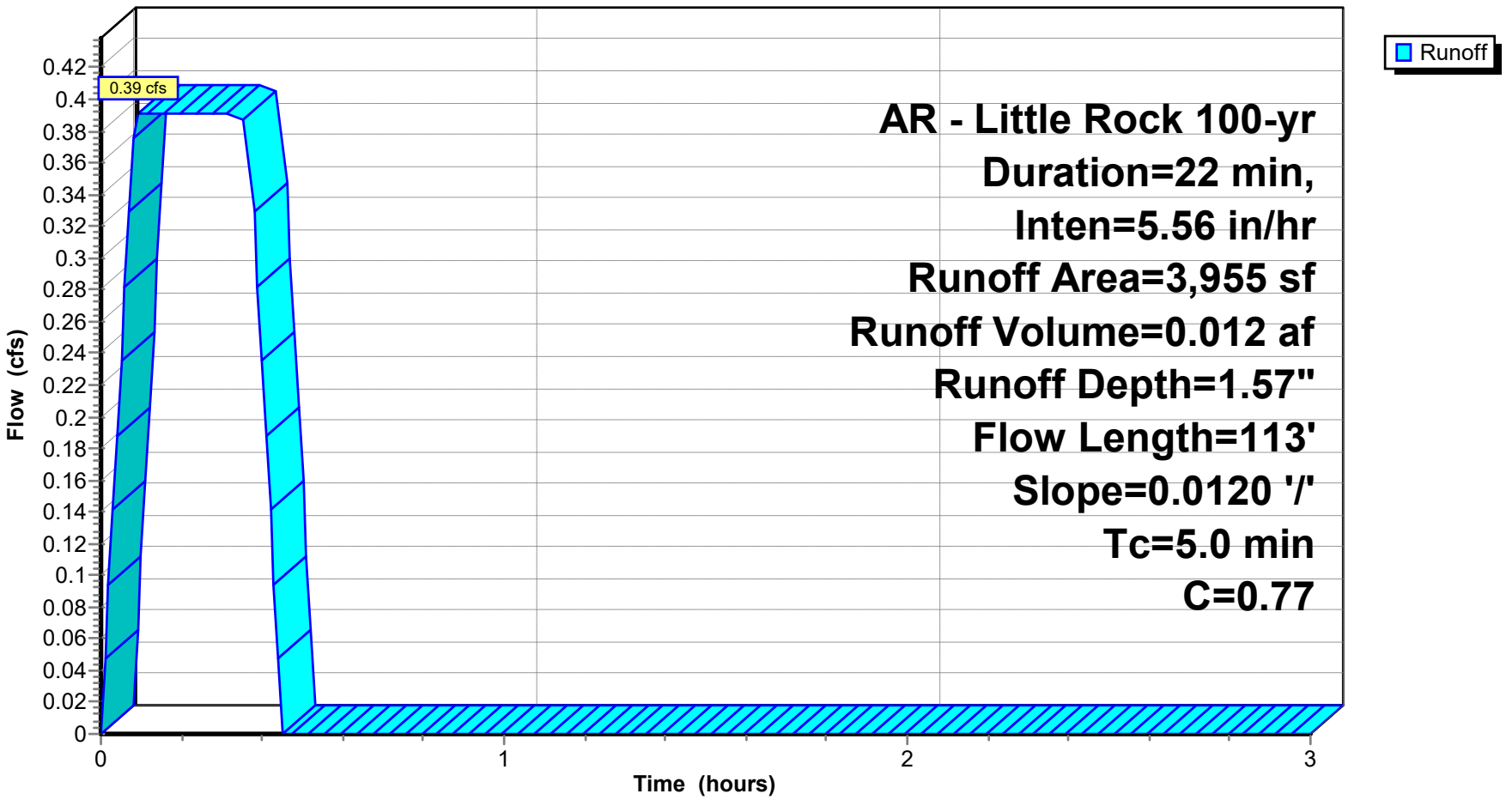
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 100-yr Duration=22 min, Inten=5.56 in/hr

Area (sf)	C	Description
959	0.30	Sandy Soil 2-7% per manual
2,996	0.92	Paved Areas
3,955	0.77	Weighted Average
3,955		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.4	113	0.0120	1.32		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
3.6					**Direct Entry, Minimum Adjustment**
5.0	113	Total			

Subcatchment DB-B10: Drainage Basin B10

Hydrograph



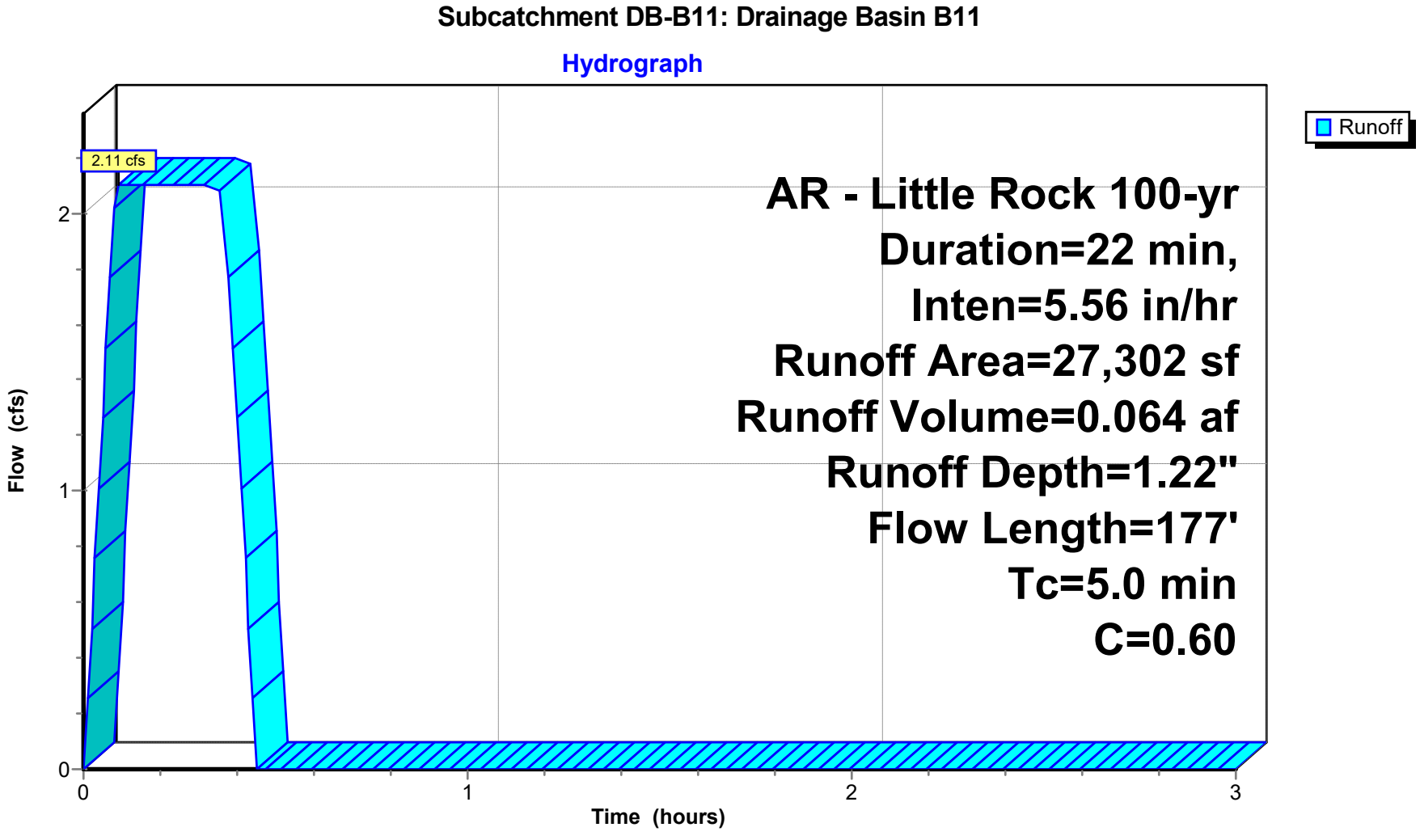
Summary for Subcatchment DB-B11: Drainage Basin B11

Runoff = 2.11 cfs @ 0.09 hrs, Volume= 0.064 af, Depth= 1.22"
Routed to Pond CI-D1 : CURB INLET D1

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 100-yr Duration=22 min, Inten=5.56 in/hr

Area (sf)	C	Description
15,547	0.35	Sandy Soil 2-7% per manual
11,755	0.92	Paved Areas
27,302	0.60	Weighted Average
27,302		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.2	65	0.3300	4.44		**Sheet Flow, Roof** Smooth surfaces n= 0.011 P2= 4.20"
0.2	69	0.1750	6.27		**Shallow Concentrated Flow, Greenspace** Grassed Waterway Kv= 15.0 fps
0.2	43	0.0500	4.54		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
4.4					**Direct Entry, Minimum Adjustment**
5.0	177	Total			



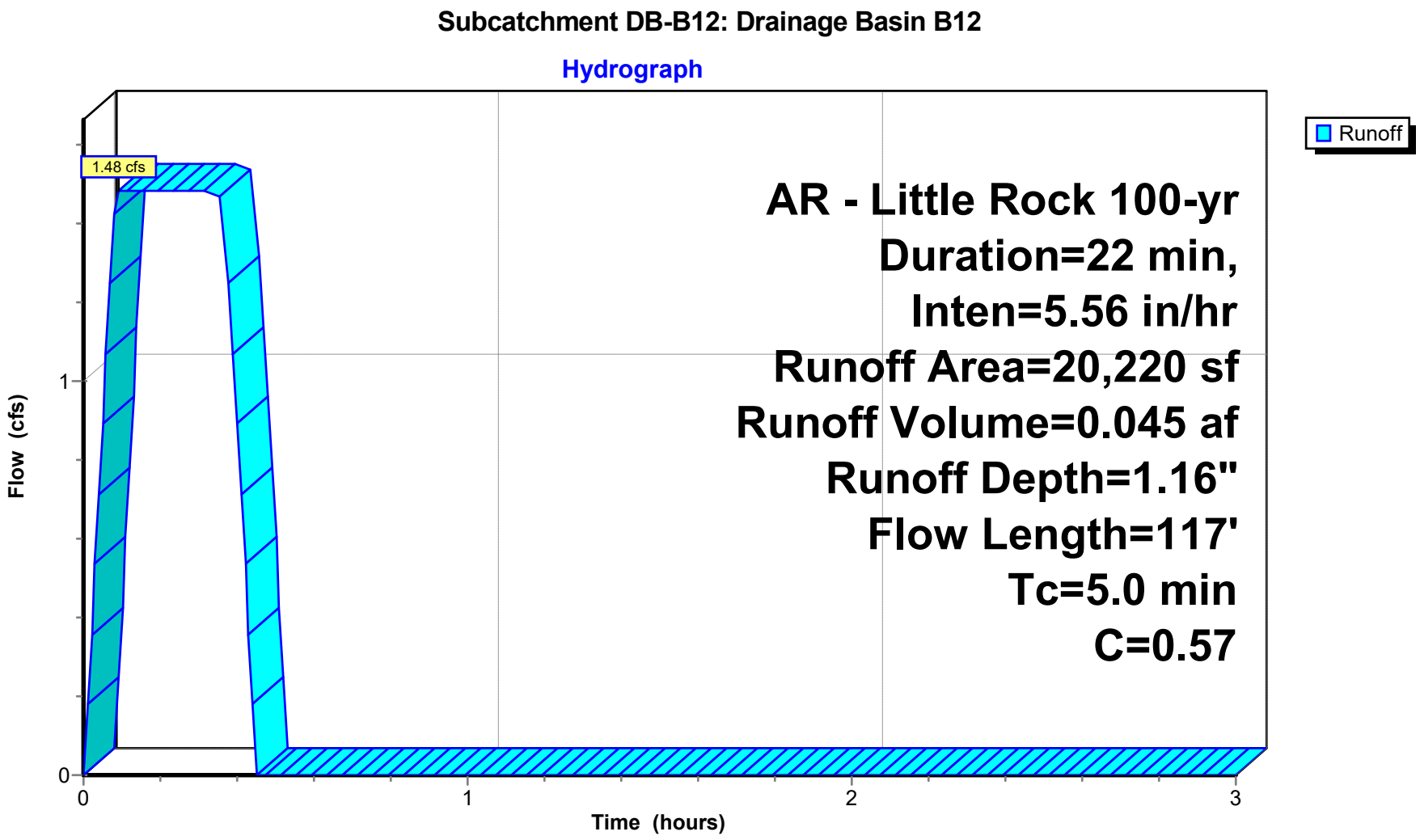
Summary for Subcatchment DB-B12: Drainage Basin B12

Runoff = 1.48 cfs @ 0.09 hrs, Volume= 0.045 af, Depth= 1.16"
Routed to Pond CI-C5 : CURB INLET C5

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 100-yr Duration=22 min, Inten=5.56 in/hr

Area (sf)	C	Description
11,502	0.30	Sandy Soil 2-7% per manual
8,718	0.92	Paved Areas
20,220	0.57	Weighted Average
20,220		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.0	26	0.0500	0.21		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
1.5	38	0.2360	0.43		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
1.1	28	0.2390	0.41		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
0.4	25	0.0180	1.15		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
5.0	117	Total			



Summary for Subcatchment DB-B13: DRAINAGE BASIN B13

Runoff = 6.92 cfs @ 0.37 hrs, Volume= 0.211 af, Depth= 0.27"
Routed to Link POST-DEV : Post-Development

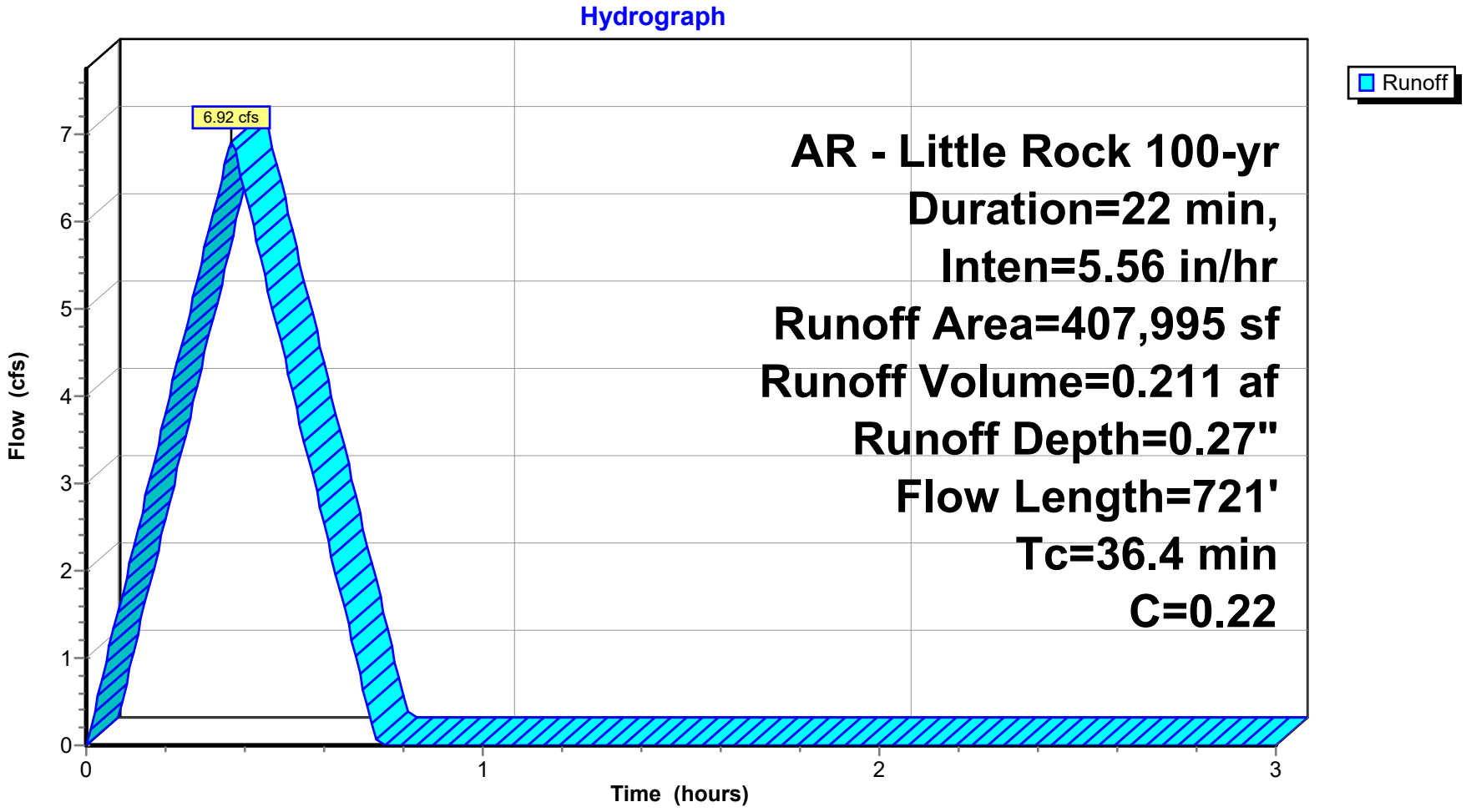
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 100-yr Duration=22 min, Inten=5.56 in/hr

Area (sf)	C	Description
407,995	0.22	Sandy Soil 2-7% Per Manual
407,995		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.5	67	0.6600	0.73		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
1.2	46	0.5900	0.65		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
3.2	147	0.5100	0.77		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
1.8	63	0.3800	0.58		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
8.5	70	0.0100	0.14		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
4.8	163	0.2200	0.56		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
2.4	65	0.2000	0.45		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
6.3	48	0.0100	0.13		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
6.7	52	0.0100	0.13		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
36.4	721	Total			

Subcatchment DB-B13: DRAINAGE BASIN B13

Hydrograph



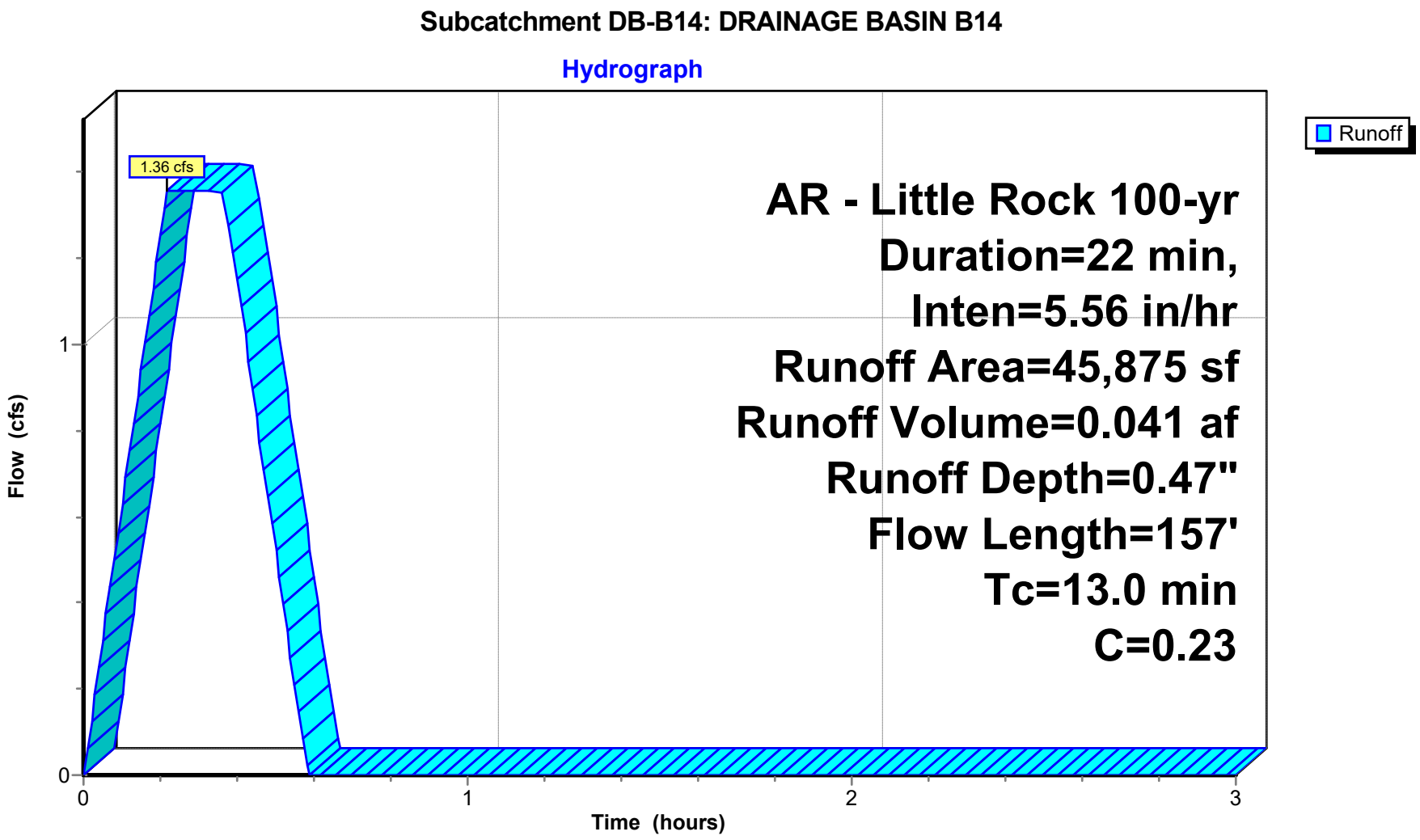
Summary for Subcatchment DB-B14: DRAINAGE BASIN B14

Runoff = 1.36 cfs @ 0.22 hrs, Volume= 0.041 af, Depth= 0.47"
Routed to Link POST-DEV : Post-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 100-yr Duration=22 min, Inten=5.56 in/hr

Area (sf)	C	Description
45,016	0.22	Sandy Soil 2-7% Per Manual
859	0.92	Paved Areas
45,875	0.23	Weighted Average
45,875		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.5	15	0.0100	0.10		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
5.2	78	0.0420	0.25		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
2.8	38	0.0480	0.23		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
2.5	26	0.0280	0.17		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
13.0	157	Total			



Summary for Subcatchment DB-B2: Drainage Basin B2

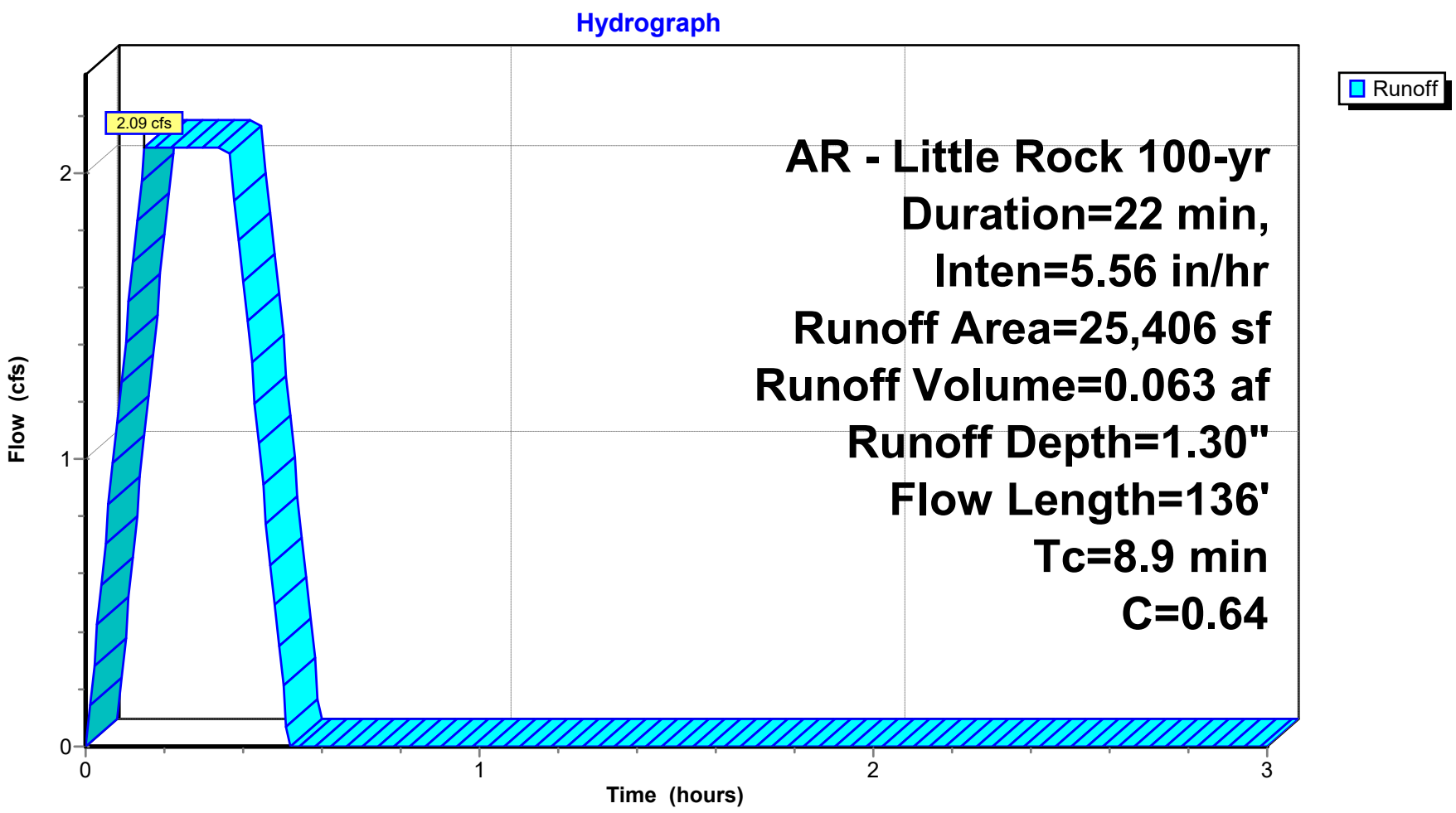
Runoff = 2.09 cfs @ 0.15 hrs, Volume= 0.063 af, Depth= 1.30"
Routed to Pond CI-A2 : CURB INLET A2

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 100-yr Duration=22 min, Inten=5.56 in/hr

Area (sf)	C	Description
11,388	0.30	Sandy Soil 2-7% per manual
14,018	0.92	Paved Areas
25,406	0.64	Weighted Average
25,406		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	57	0.0100	0.13		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
0.8	19	0.2480	0.38		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
0.2	14	0.0150	0.95		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.3	34	0.0600	1.97		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.2	12	0.0350	1.29		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.2					**Direct Entry, Minimum Adjustment**
8.9	136	Total			

Subcatchment DB-B2: Drainage Basin B2



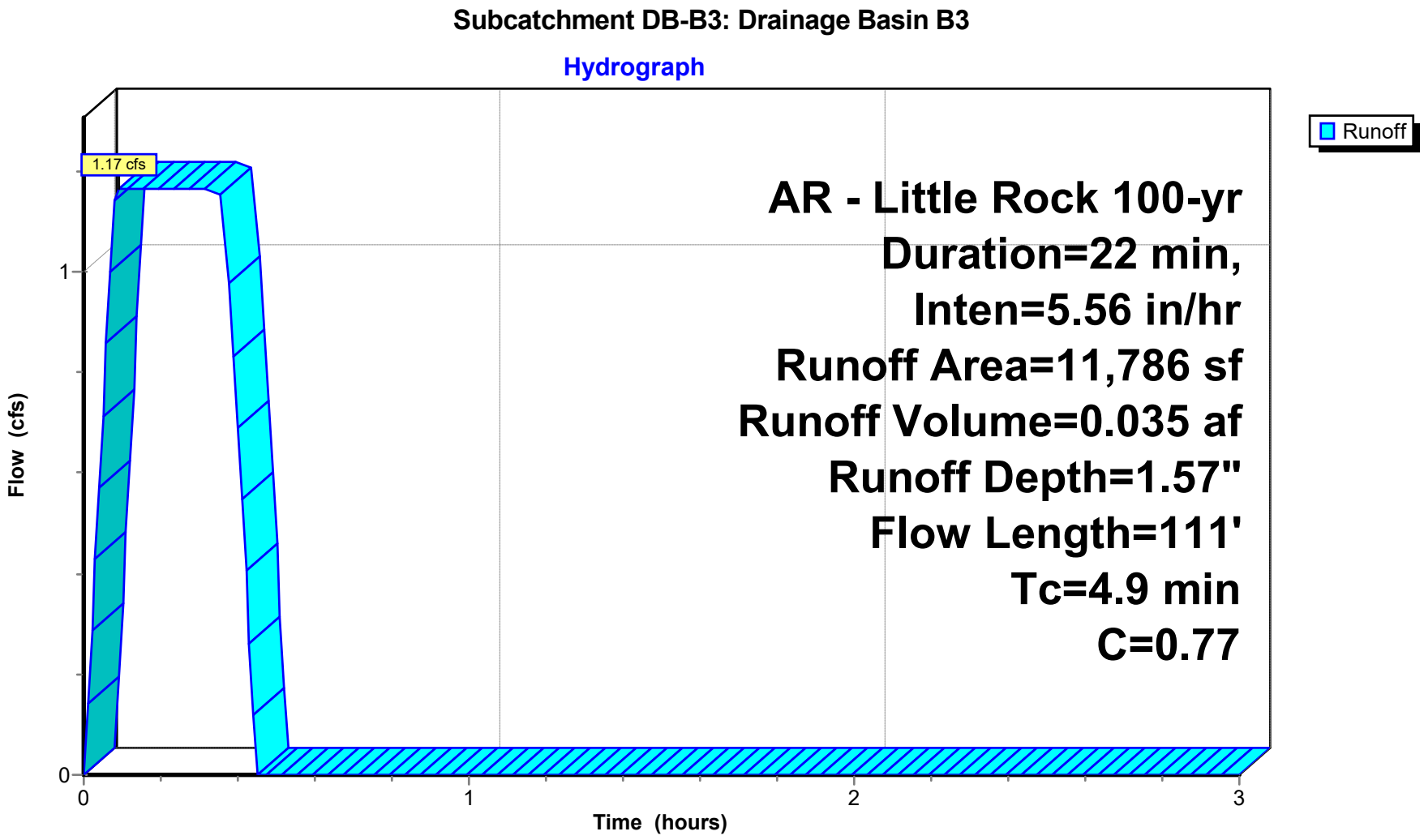
Summary for Subcatchment DB-B3: Drainage Basin B3

Runoff = 1.17 cfs @ 0.09 hrs, Volume= 0.035 af, Depth= 1.57"
Routed to Pond CI-A3 : CURB INLET A3

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 100-yr Duration=22 min, Inten=5.56 in/hr

Area (sf)	C	Description
2,920	0.30	Sandy Soil 2-7% per manual
8,866	0.92	Paved Areas
11,786	0.77	Weighted Average
11,786		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	19	0.2500	0.38		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
0.2	16	0.0290	1.27		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.6	38	0.0100	0.98		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.3	38	0.0100	2.03		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
3.0					**Direct Entry, Minimum Adjustment**
4.9	111	Total			



Summary for Subcatchment DB-B4: Drainage Basin B4

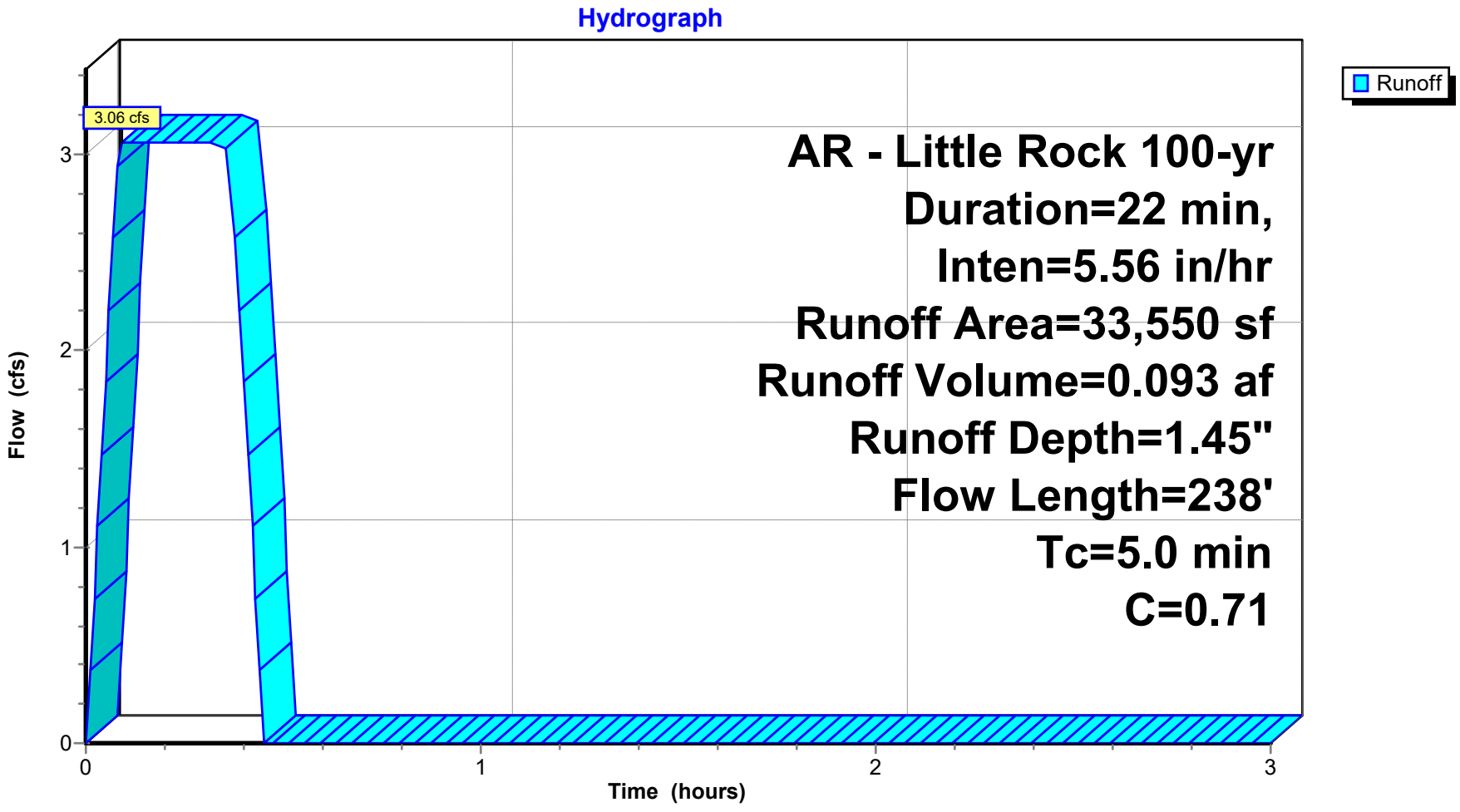
Runoff = 3.06 cfs @ 0.09 hrs, Volume= 0.093 af, Depth= 1.45"
Routed to Pond CI-A4 : CURB INLET A4

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 100-yr Duration=22 min, Inten=5.56 in/hr

Area (sf)	C	Description
11,568	0.30	Sandy Soil 2-7% per manual
21,982	0.92	Paved Areas
33,550	0.71	Weighted Average
33,550		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.4	48	0.0530	2.01		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.3	25	0.0310	1.42		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.6	14	0.0020	0.42		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.9	66	0.0130	1.22		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.4	59	0.0120	2.22		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
0.5	19	0.0010	0.64		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
0.0	7	0.0700	5.37		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
1.9					**Direct Entry, Minimum Adjustment**
5.0	238	Total			

Subcatchment DB-B4: Drainage Basin B4



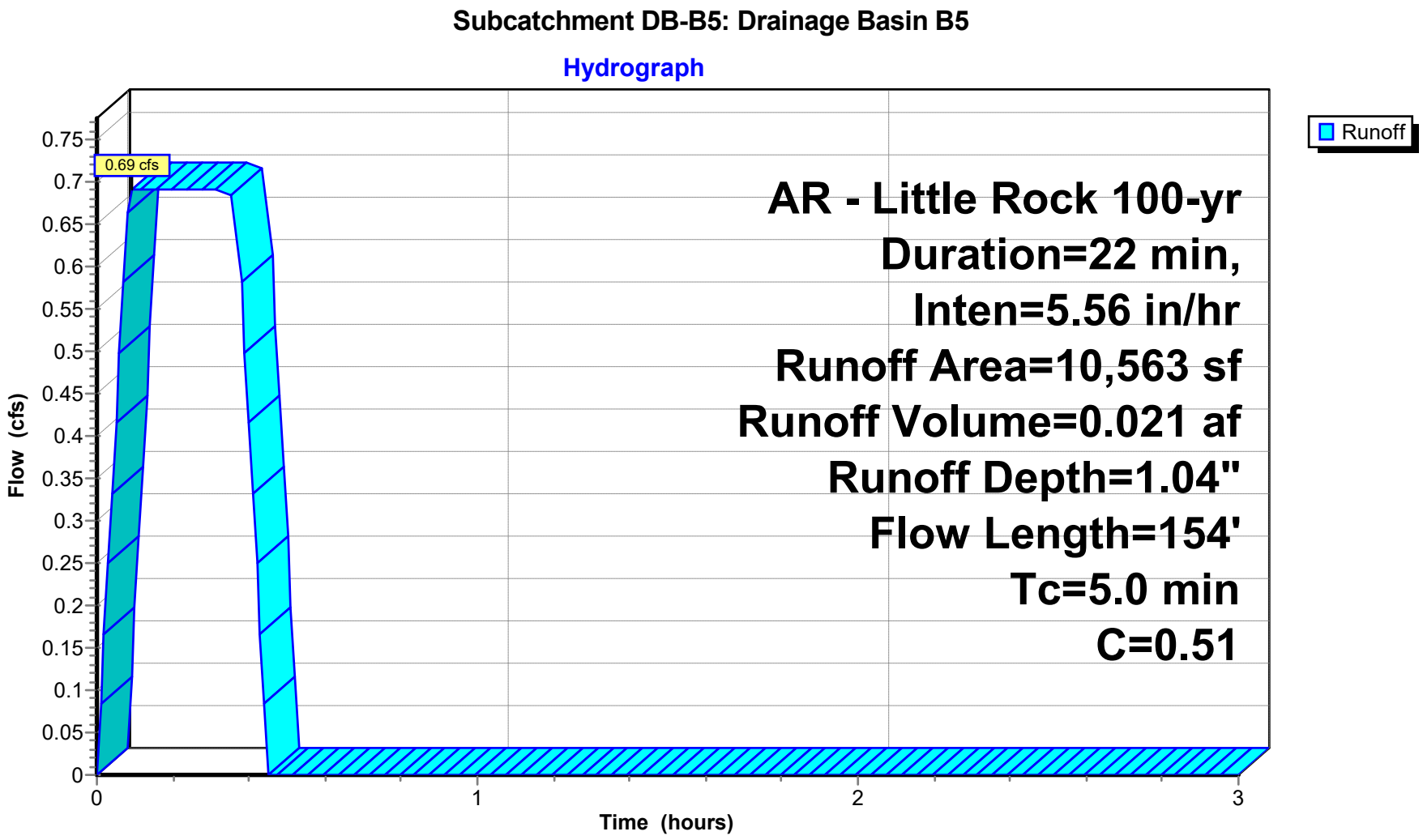
Summary for Subcatchment DB-B5: Drainage Basin B5

Runoff = 0.69 cfs @ 0.09 hrs, Volume= 0.021 af, Depth= 1.04"
Routed to Pond CI-A5 : CURB INLET A5

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 100-yr Duration=22 min, Inten=5.56 in/hr

Area (sf)	C	Description
6,980	0.30	Sandy Soil 2-7% per manual
3,583	0.92	Paved Areas
10,563	0.51	Weighted Average
10,563		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.2	19	0.0920	0.26		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
1.9	39	0.1260	0.34		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
0.5	66	0.0540	2.16		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.1	30	0.0500	4.54		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
1.3					**Direct Entry, Minimum Adjustment**
5.0	154	Total			



Summary for Subcatchment DB-B6: Drainage Basin B6

Runoff = 0.22 cfs @ 0.09 hrs, Volume= 0.007 af, Depth= 1.87"
Routed to Pond AI-B1 : AREA INLET B1

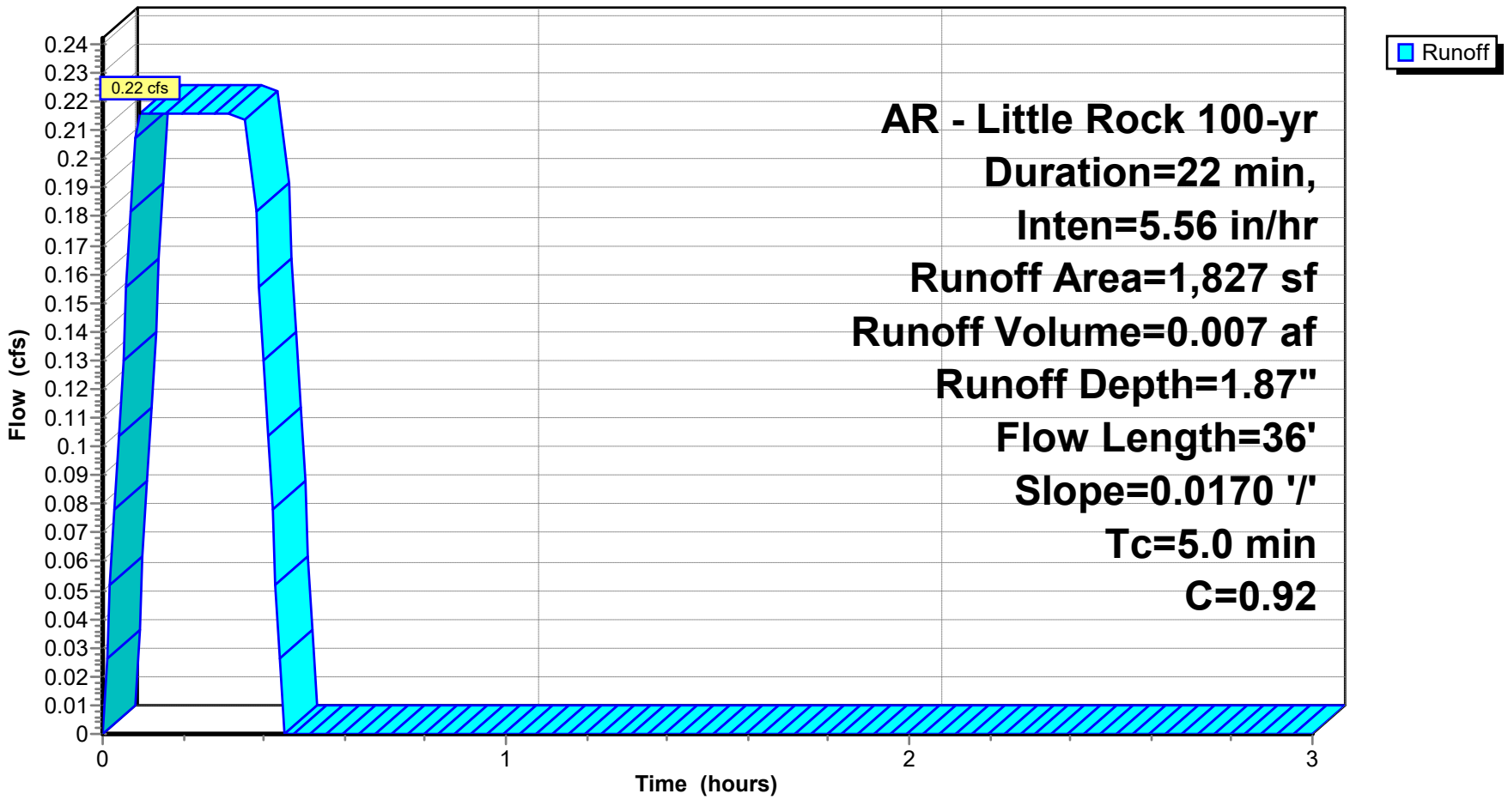
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 100-yr Duration=22 min, Inten=5.56 in/hr

Area (sf)	C	Description
0	0.30	Sandy Soil 2-7% per manual
1,827	0.92	Paved Areas
1,827	0.92	Weighted Average
1,827		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.5	36	0.0170	1.20		**Sheet Flow, Concrete** Smooth surfaces n= 0.011 P2= 4.20"
4.5					**Direct Entry, Minimum Adjustment**
5.0	36	Total			

Subcatchment DB-B6: Drainage Basin B6

Hydrograph



Summary for Subcatchment DB-B7: Drainage Basin B7

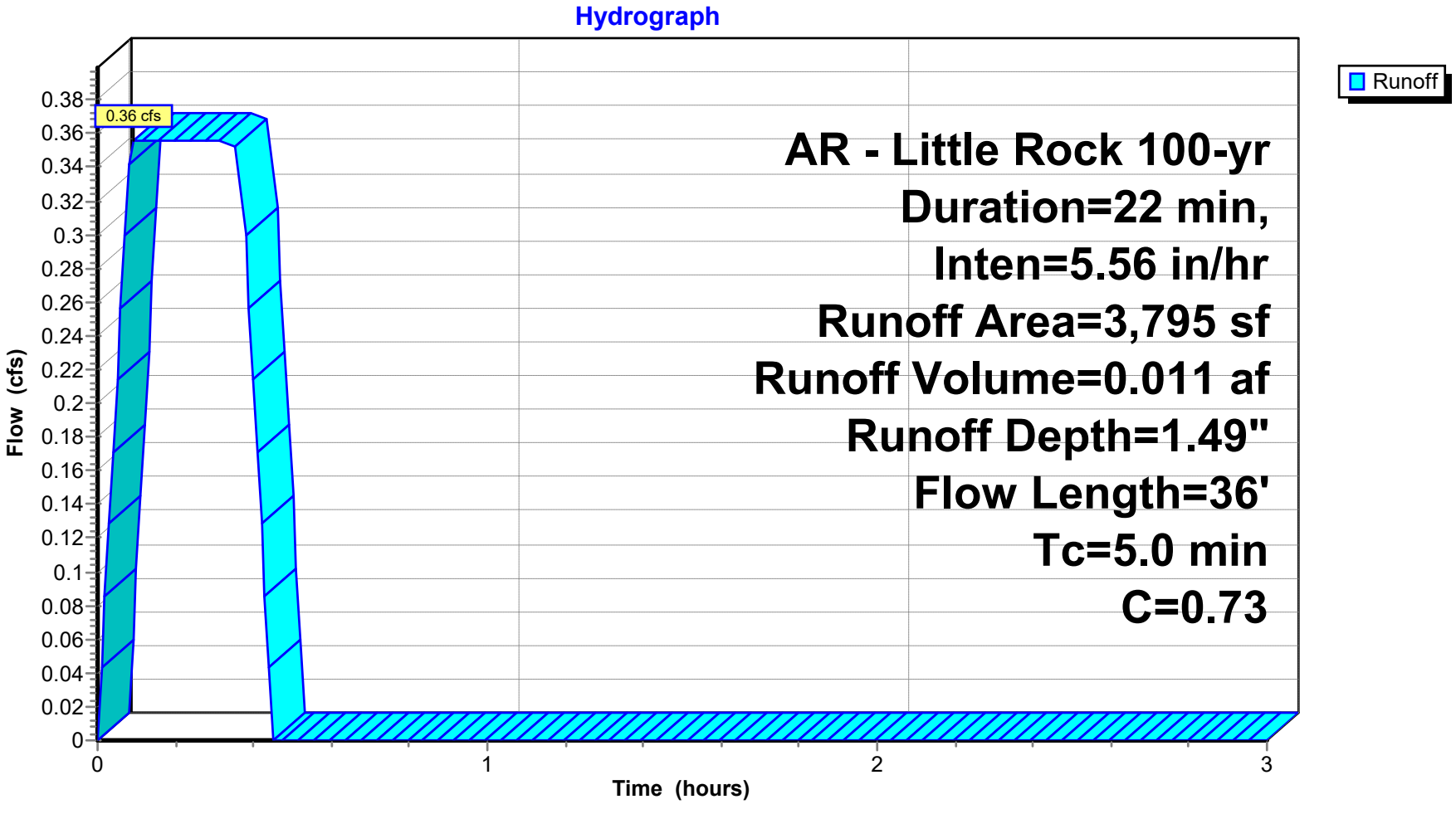
Runoff = 0.36 cfs @ 0.09 hrs, Volume= 0.011 af, Depth= 1.49"
Routed to Pond AI-B2 : AREA INLET B2

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 100-yr Duration=22 min, Inten=5.56 in/hr

Area (sf)	C	Description
1,158	0.30	Sandy Soil 2-7% per manual
2,637	0.92	Paved Areas
3,795	0.73	Weighted Average
3,795		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	24	0.0020	0.47		**Sheet Flow, Concrete** Smooth surfaces n= 0.011 P2= 4.20"
0.2	12	0.0160	0.94		**Sheet Flow, Concrete** Smooth surfaces n= 0.011 P2= 4.20"
4.0					**Direct Entry, Minimum Adjustment**
5.0	36	Total			

Subcatchment DB-B7: Drainage Basin B7



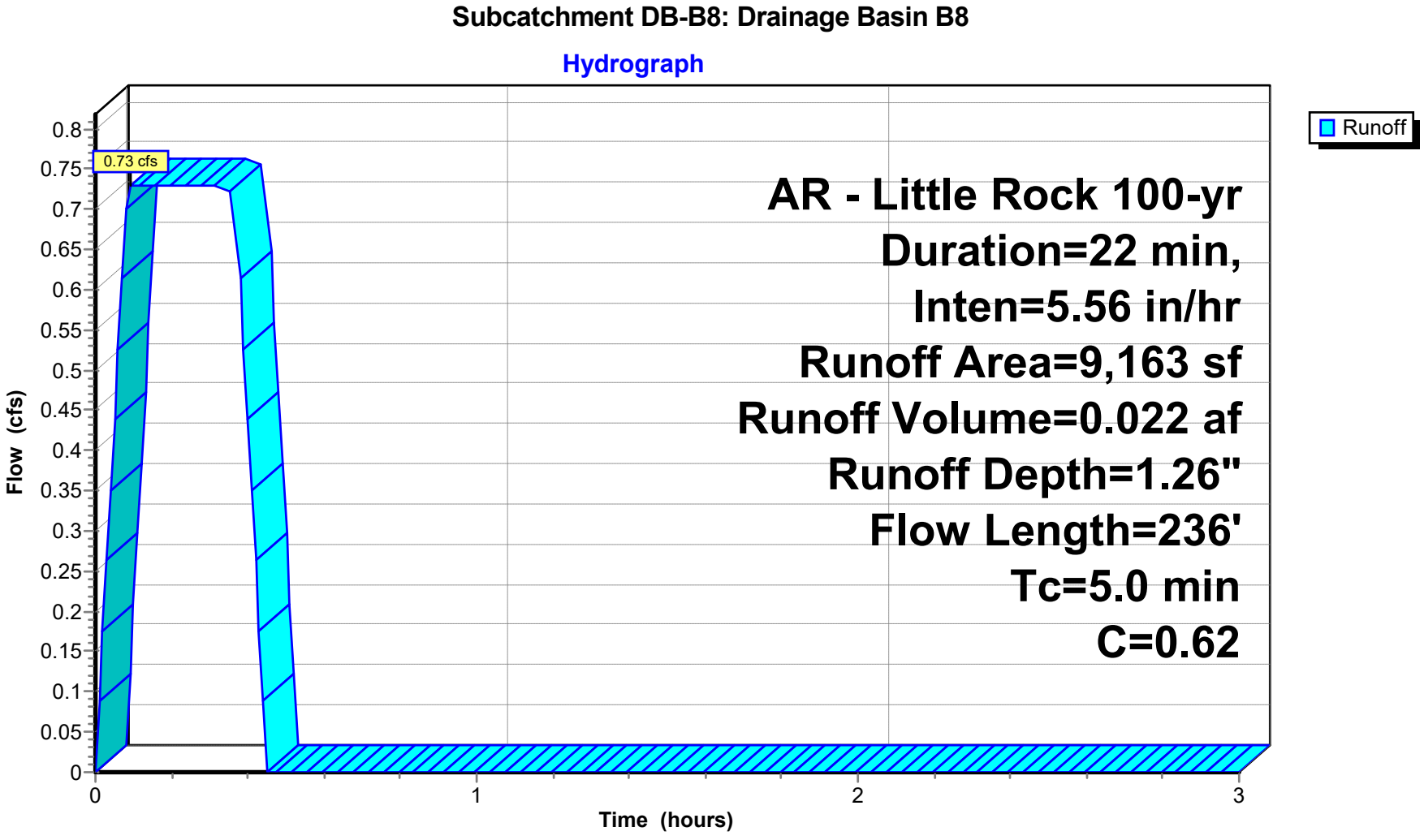
Summary for Subcatchment DB-B8: Drainage Basin B8

Runoff = 0.73 cfs @ 0.09 hrs, Volume= 0.022 af, Depth= 1.26"
Routed to Pond CI-C1 : CURB INLET C1

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 100-yr Duration=22 min, Inten=5.56 in/hr

Area (sf)	C	Description
4,431	0.30	Sadny Soil 2-7% per manual
4,732	0.92	Paved Areas
9,163	0.62	Weighted Average
9,163		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.4	33	0.0210	1.29		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.6	91	0.0620	2.43		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.8	112	0.0490	2.31		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
3.2					**Direct Entry, Minimum Adjustment**
5.0	236	Total			



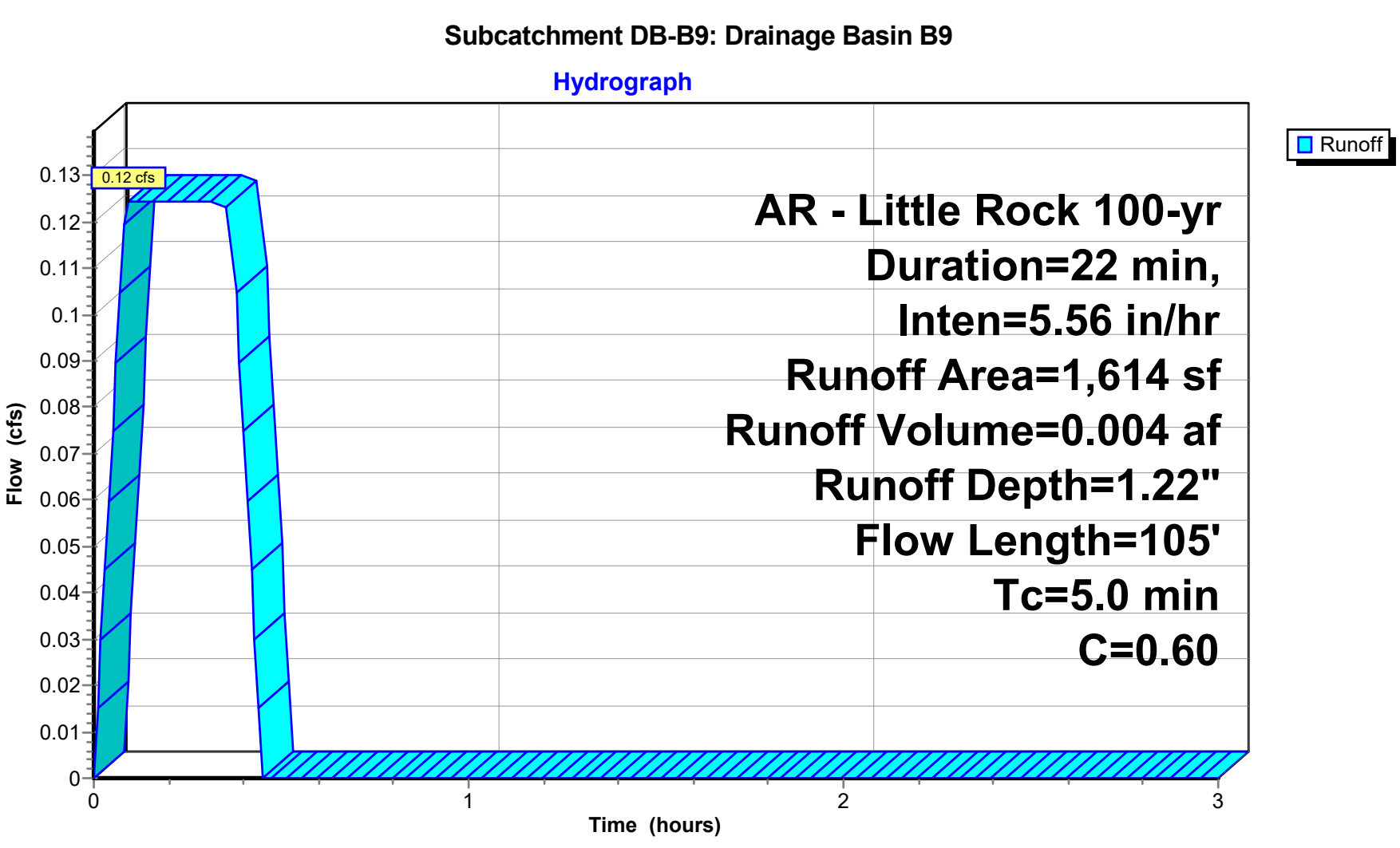
Summary for Subcatchment DB-B9: Drainage Basin B9

Runoff = 0.12 cfs @ 0.09 hrs, Volume= 0.004 af, Depth= 1.22"
Routed to Pond CI-C2 : CURB INLET C2

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 100-yr Duration=22 min, Inten=5.56 in/hr

Area (sf)	C	Description
826	0.30	Sandy Soil 2-7% per manual
788	0.92	Paved Areas
1,614	0.60	Weighted Average
1,614		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.0	62	0.0100	1.09		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.0	8	0.0230	3.08		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
0.2	35	0.0140	2.40		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
3.8					**Direct Entry, Minimum Adjustment**
5.0	105	Total			



Summary for Pond AI-B1: AREA INLET B1

Inflow Area = 0.042 ac, 0.00% Impervious, Inflow Depth = 1.87" for 100-yr event
Inflow = 0.22 cfs @ 0.09 hrs, Volume= 0.007 af
Outflow = 0.22 cfs @ 0.09 hrs, Volume= 0.007 af, Atten= 0%, Lag= 0.0 min
Primary = 0.22 cfs @ 0.09 hrs, Volume= 0.007 af
Routed to Pond AI-B2 : AREA INLET B2

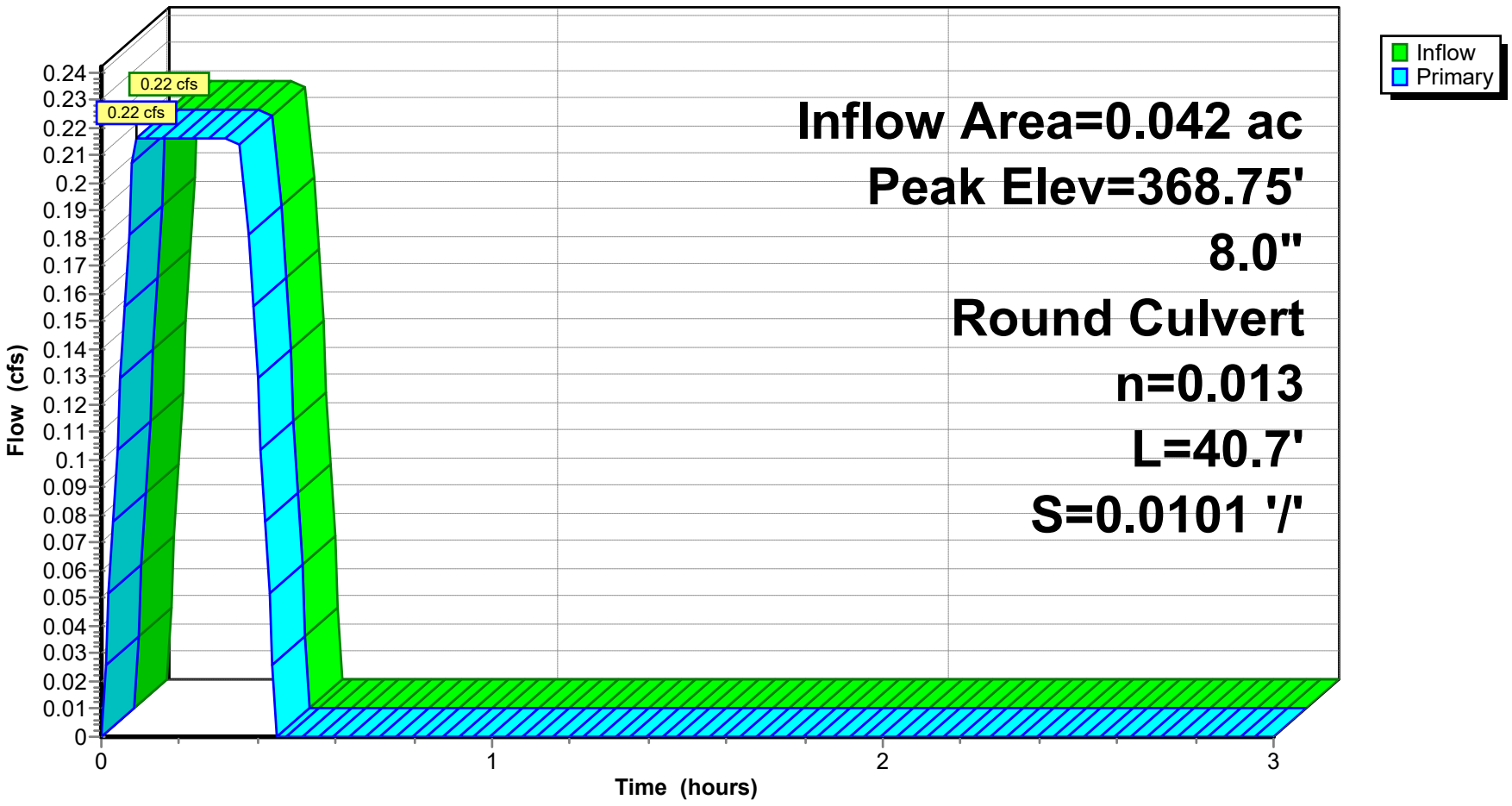
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 368.75' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	368.49'	**8.0" Round HDPE 8"** L= 40.7' Ke= 0.100 Inlet / Outlet Invert= 368.49' / 368.08' S= 0.0101 '/' Cc= 0.900 n= 0.013, Flow Area= 0.35 sf

Primary OutFlow Max=0.22 cfs @ 0.09 hrs HW=368.75' (Free Discharge)
1=HDPE 8" (Barrel Controls 0.22 cfs @ 2.52 fps)

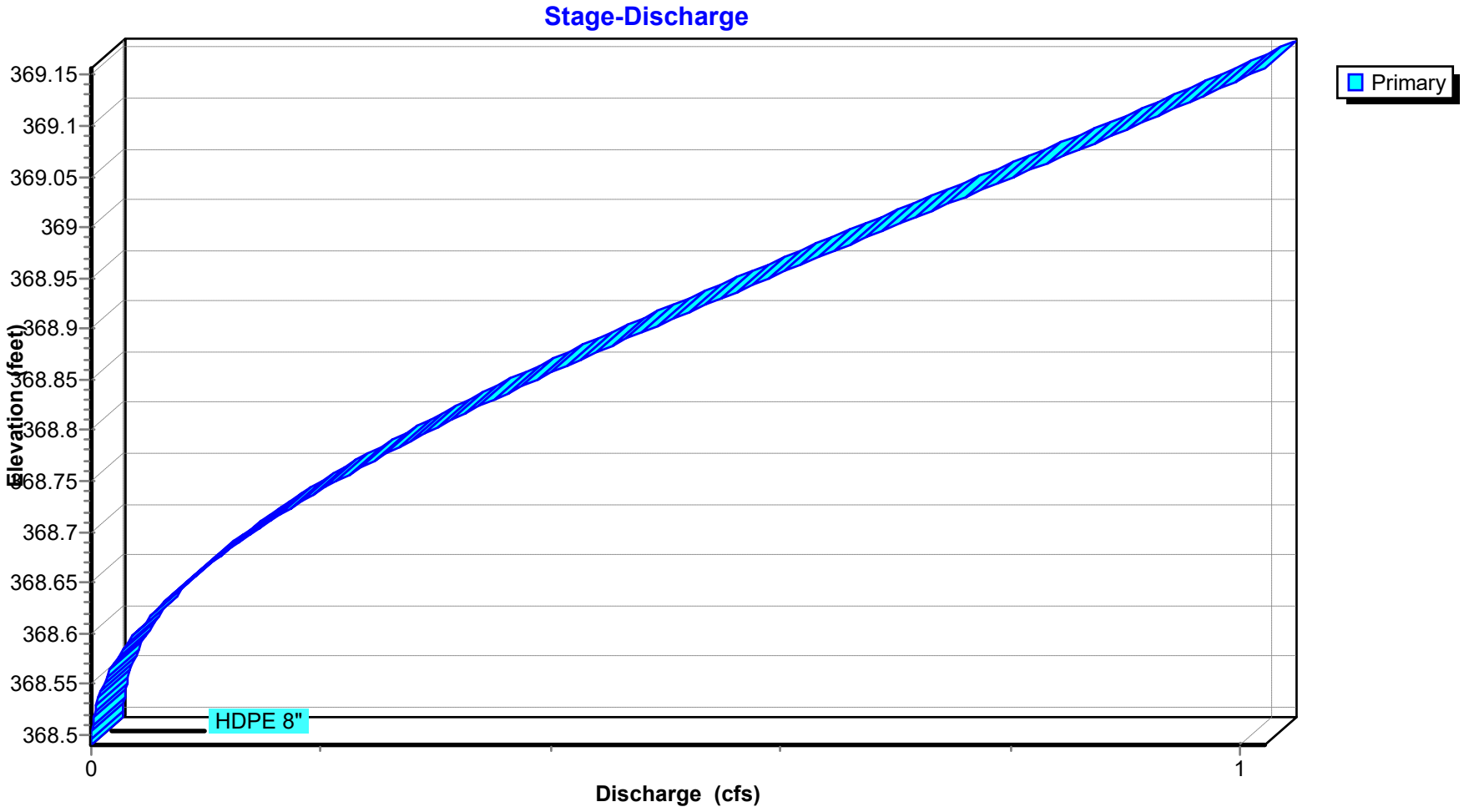
Pond AI-B1: AREA INLET B1

Hydrograph



Pond AI-B1: AREA INLET B1

Stage-Discharge



Stage-Area-Storage for Pond AI-B1: AREA INLET B1

Elevation (feet)	Storage (acre-feet)
368.49	**0.000**
368.50	0.000
368.51	0.000
368.52	0.000
368.53	0.000
368.54	0.000
368.55	0.000
368.56	0.000
368.57	0.000
368.58	0.000
368.59	0.000
368.60	0.000
368.61	0.000
368.62	0.000
368.63	0.000
368.64	0.000
368.65	0.000
368.66	0.000
368.67	0.000
368.68	0.000
368.69	0.000
368.70	0.000
368.71	0.000
368.72	0.000
368.73	0.000
368.74	0.000
368.75	0.000
368.76	0.000
368.77	0.000
368.78	0.000
368.79	0.000
368.80	0.000
368.81	0.000
368.82	0.000
368.83	0.000
368.84	0.000
368.85	0.000
368.86	0.000
368.87	0.000
368.88	0.000
368.89	0.000
368.90	0.000
368.91	0.000
368.92	0.000
368.93	0.000
368.94	0.000
368.95	0.000
368.96	0.000
368.97	0.000
368.98	0.000
368.99	0.000
369.00	0.000
369.01	0.000
369.02	0.000
369.03	0.000
369.04	0.000
369.05	0.000
369.06	0.000
369.07	0.000
369.08	0.000
369.09	0.000
369.10	0.000
369.11	0.000
369.12	0.000
369.13	0.000
369.14	0.000
369.15	0.000
369.16	0.000

Summary for Pond AI-B2: AREA INLET B2

Inflow Area = 0.129 ac, 0.00% Impervious, Inflow Depth = 1.61" for 100-yr event
Inflow = 0.57 cfs @ 0.09 hrs, Volume= 0.017 af
Outflow = 0.57 cfs @ 0.10 hrs, Volume= 0.017 af, Atten= 0%, Lag= 0.6 min
Primary = 0.57 cfs @ 0.10 hrs, Volume= 0.017 af
Routed to Pond CI-A2 : CURB INLET A2

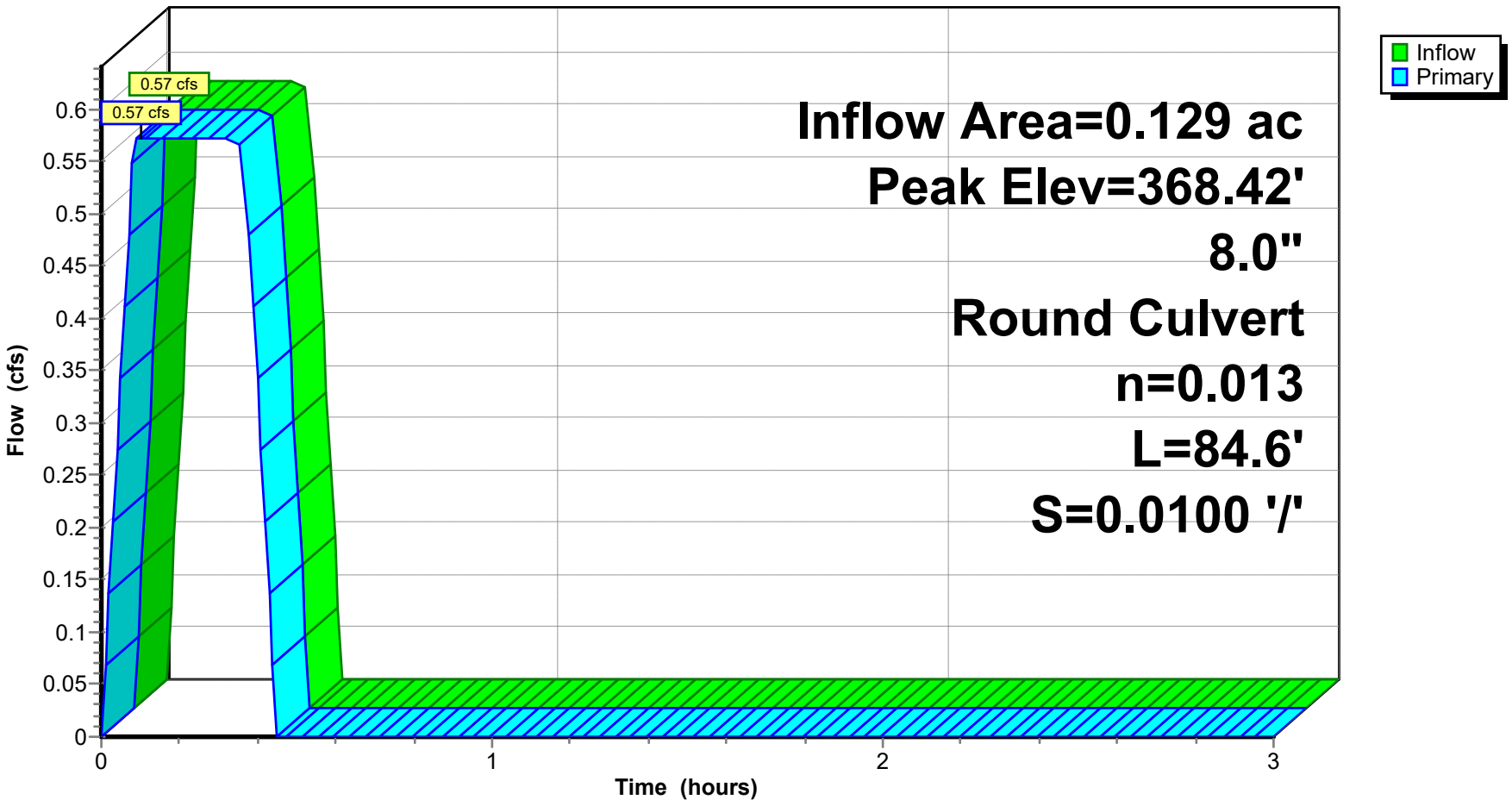
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 368.42' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	367.98'	**8.0" Round HDPE** L= 84.6' Ke= 0.100 Inlet / Outlet Invert= 367.98' / 367.13' S= 0.0100 '/' Cc= 0.900 n= 0.013, Flow Area= 0.35 sf

Primary OutFlow Max=0.57 cfs @ 0.10 hrs HW=368.42' (Free Discharge)
1=HDPE (Barrel Controls 0.57 cfs @ 3.30 fps)

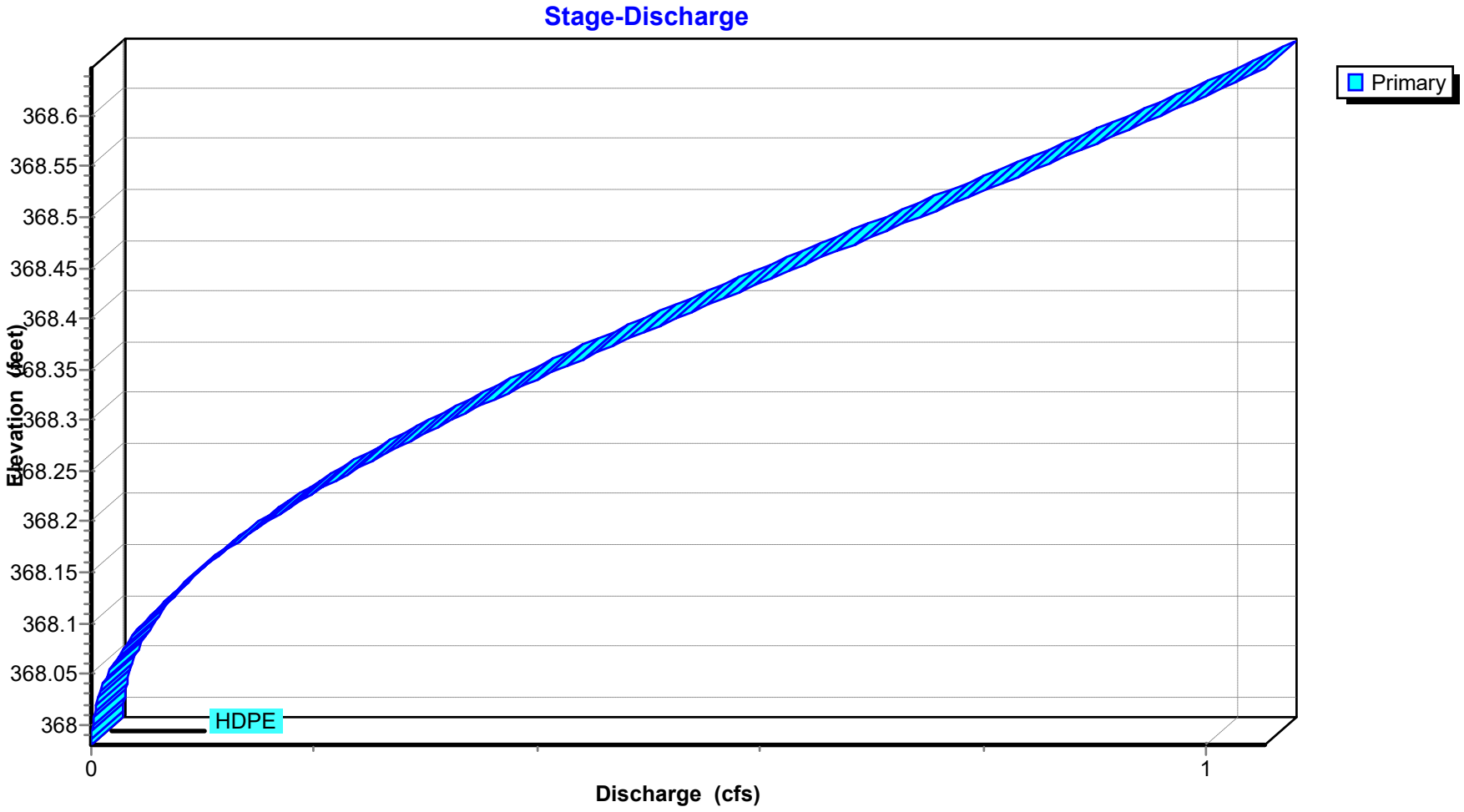
Pond AI-B2: AREA INLET B2

Hydrograph



Pond AI-B2: AREA INLET B2

Stage-Discharge



Stage-Area-Storage for Pond AI-B2: AREA INLET B2

Elevation (feet)	Storage (acre-feet)
367.98	**0.000**
367.99	0.000
368.00	0.000
368.01	0.000
368.02	0.000
368.03	0.000
368.04	0.000
368.05	0.000
368.06	0.000
368.07	0.000
368.08	0.000
368.09	0.000
368.10	0.000
368.11	0.000
368.12	0.000
368.13	0.000
368.14	0.000
368.15	0.000
368.16	0.000
368.17	0.000
368.18	0.000
368.19	0.000
368.20	0.000
368.21	0.000
368.22	0.000
368.23	0.000
368.24	0.000
368.25	0.000
368.26	0.000
368.27	0.000
368.28	0.000
368.29	0.000
368.30	0.000
368.31	0.000
368.32	0.000
368.33	0.000
368.34	0.000
368.35	0.000
368.36	0.000
368.37	0.000
368.38	0.000
368.39	0.000
368.40	0.000
368.41	0.000
368.42	0.000
368.43	0.000
368.44	0.000
368.45	0.000
368.46	0.000
368.47	0.000
368.48	0.000
368.49	0.000
368.50	0.000
368.51	0.000
368.52	0.000
368.53	0.000
368.54	0.000
368.55	0.000
368.56	0.000
368.57	0.000
368.58	0.000
368.59	0.000
368.60	0.000
368.61	0.000
368.62	0.000
368.63	0.000
368.64	0.000
368.65	0.000

Summary for Pond CI-A1: CURB INLET A1

Inflow Area = 0.443 ac, 0.00% Impervious, Inflow Depth = 1.75" for 100-yr event
Inflow = 2.14 cfs @ 0.09 hrs, Volume= 0.065 af
Outflow = 2.14 cfs @ 0.10 hrs, Volume= 0.065 af, Atten= 0%, Lag= 0.6 min
Primary = 2.14 cfs @ 0.10 hrs, Volume= 0.065 af
Routed to Pond CI-A2 : CURB INLET A2

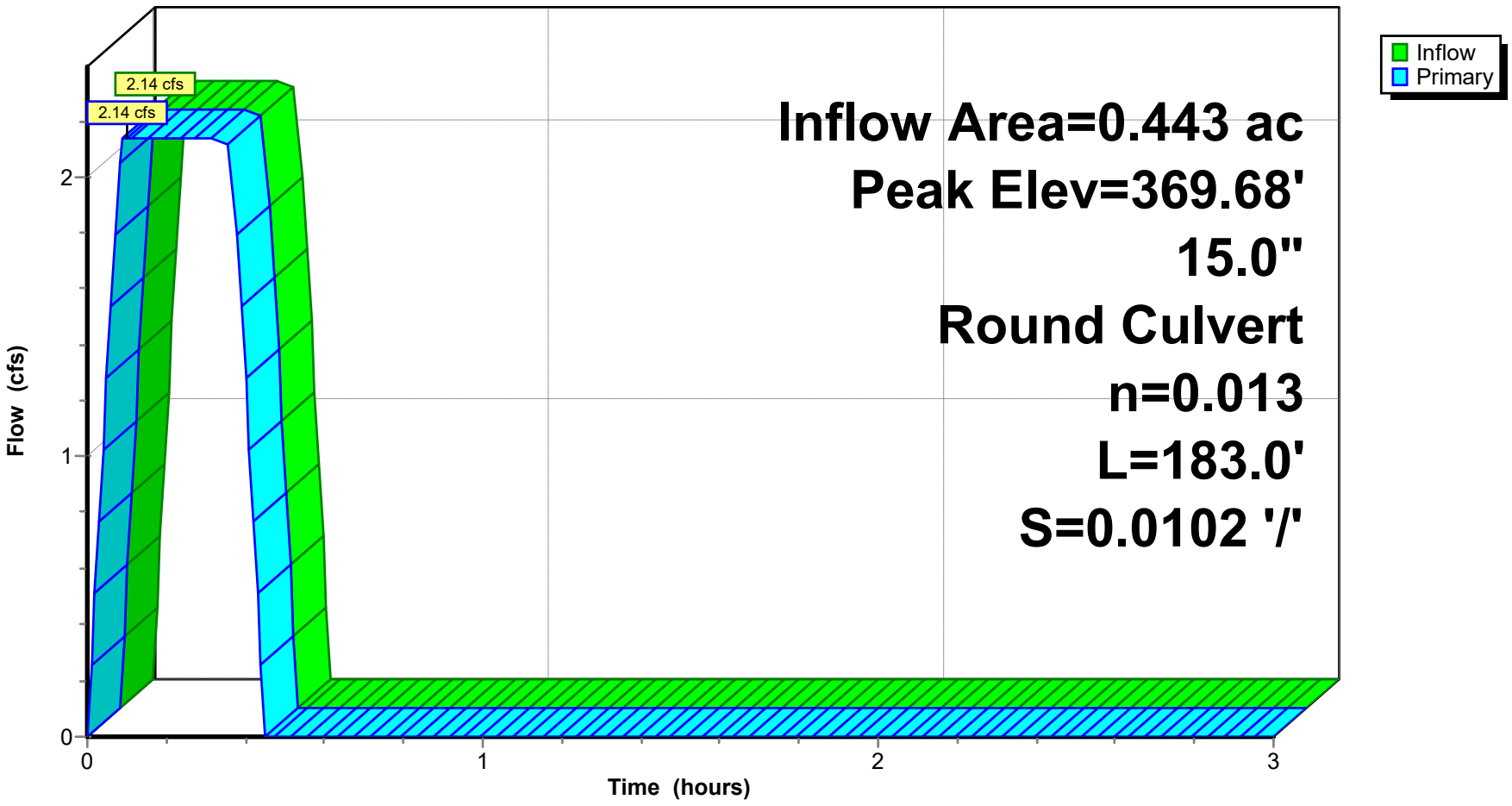
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 369.68' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	369.00'	**15.0" Round RCP_Round 15"** L= 183.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 369.00' / 367.13' S= 0.0102 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.23 sf

Primary OutFlow Max=2.14 cfs @ 0.10 hrs HW=369.68' (Free Discharge)
└**1=RCP_Round 15"** (Barrel Controls 2.14 cfs @ 4.58 fps)

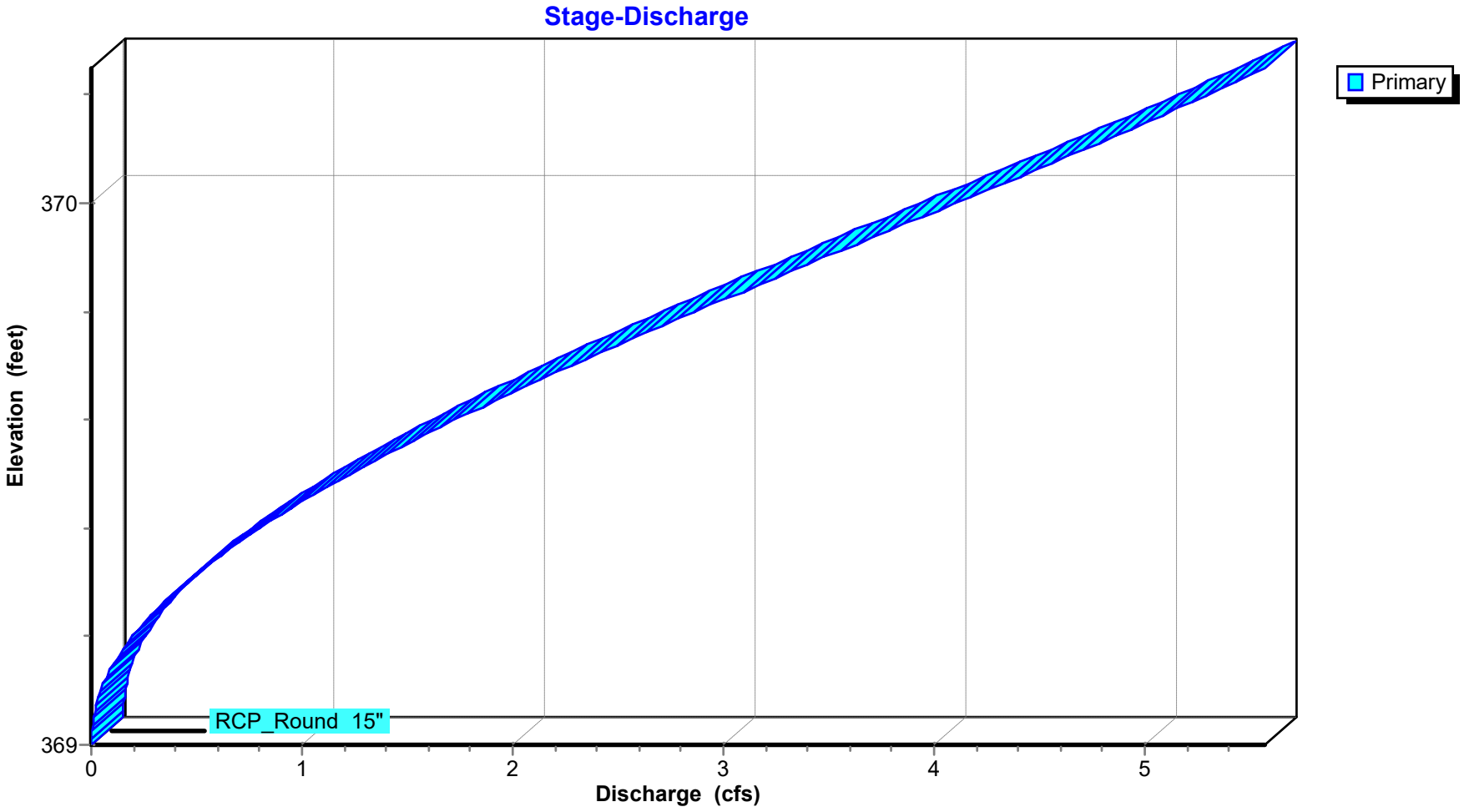
Pond CI-A1: CURB INLET A1

Hydrograph



Pond CI-A1: CURB INLET A1

Stage-Discharge



Stage-Area-Storage for Pond CI-A1: CURB INLET A1

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
369.00	**0.000**	369.92	0.000
369.01	0.000	369.93	0.000
369.02	0.000	369.94	0.000
369.03	0.000	369.95	0.000
369.04	0.000	369.96	0.000
369.05	0.000	369.97	0.000
369.06	0.000	369.98	0.000
369.07	0.000	369.99	0.000
369.08	0.000	370.00	0.000
369.09	0.000	370.01	0.000
369.10	0.000	370.02	0.000
369.11	0.000	370.03	0.000
369.12	0.000	370.04	0.000
369.13	0.000	370.05	0.000
369.14	0.000	370.06	0.000
369.15	0.000	370.07	0.000
369.16	0.000	370.08	0.000
369.17	0.000	370.09	0.000
369.18	0.000	370.10	0.000
369.19	0.000	370.11	0.000
369.20	0.000	370.12	0.000
369.21	0.000	370.13	0.000
369.22	0.000	370.14	0.000
369.23	0.000	370.15	0.000
369.24	0.000	370.16	0.000
369.25	0.000	370.17	0.000
369.26	0.000	370.18	0.000
369.27	0.000	370.19	0.000
369.28	0.000	370.20	0.000
369.29	0.000	370.21	0.000
369.30	0.000	370.22	0.000
369.31	0.000	370.23	0.000
369.32	0.000	370.24	0.000
369.33	0.000	370.25	0.000
369.34	0.000		
369.35	0.000		
369.36	0.000		
369.37	0.000		
369.38	0.000		
369.39	0.000		
369.40	0.000		
369.41	0.000		
369.42	0.000		
369.43	0.000		
369.44	0.000		
369.45	0.000		
369.46	0.000		
369.47	0.000		
369.48	0.000		
369.49	0.000		
369.50	0.000		
369.51	0.000		
369.52	0.000		
369.53	0.000		
369.54	0.000		
369.55	0.000		
369.56	0.000		
369.57	0.000		
369.58	0.000		
369.59	0.000		
369.60	0.000		
369.61	0.000		
369.62	0.000		
369.63	0.000		
369.64	0.000		
369.65	0.000		
369.66	0.000		
369.67	0.000		
369.68	0.000		
369.69	0.000		
369.70	0.000		
369.71	0.000		
369.72	0.000		
369.73	0.000		
369.74	0.000		
369.75	0.000		
369.76	0.000		
369.77	0.000		
369.78	0.000		
369.79	0.000		
369.80	0.000		
369.81	0.000		
369.82	0.000		
369.83	0.000		
369.84	0.000		
369.85	0.000		
369.86	0.000		
369.87	0.000		
369.88	0.000		
369.89	0.000		
369.90	0.000		
369.91	0.000		

Summary for Pond CI-A2: CURB INLET A2

Inflow Area = 1.156 ac, 0.00% Impervious, Inflow Depth = 1.51" for 100-yr event
Inflow = 4.80 cfs @ 0.15 hrs, Volume= 0.145 af
Outflow = 4.80 cfs @ 0.15 hrs, Volume= 0.145 af, Atten= 0%, Lag= 0.0 min
Primary = 4.80 cfs @ 0.15 hrs, Volume= 0.145 af
Routed to Pond CI-A3 : CURB INLET A3

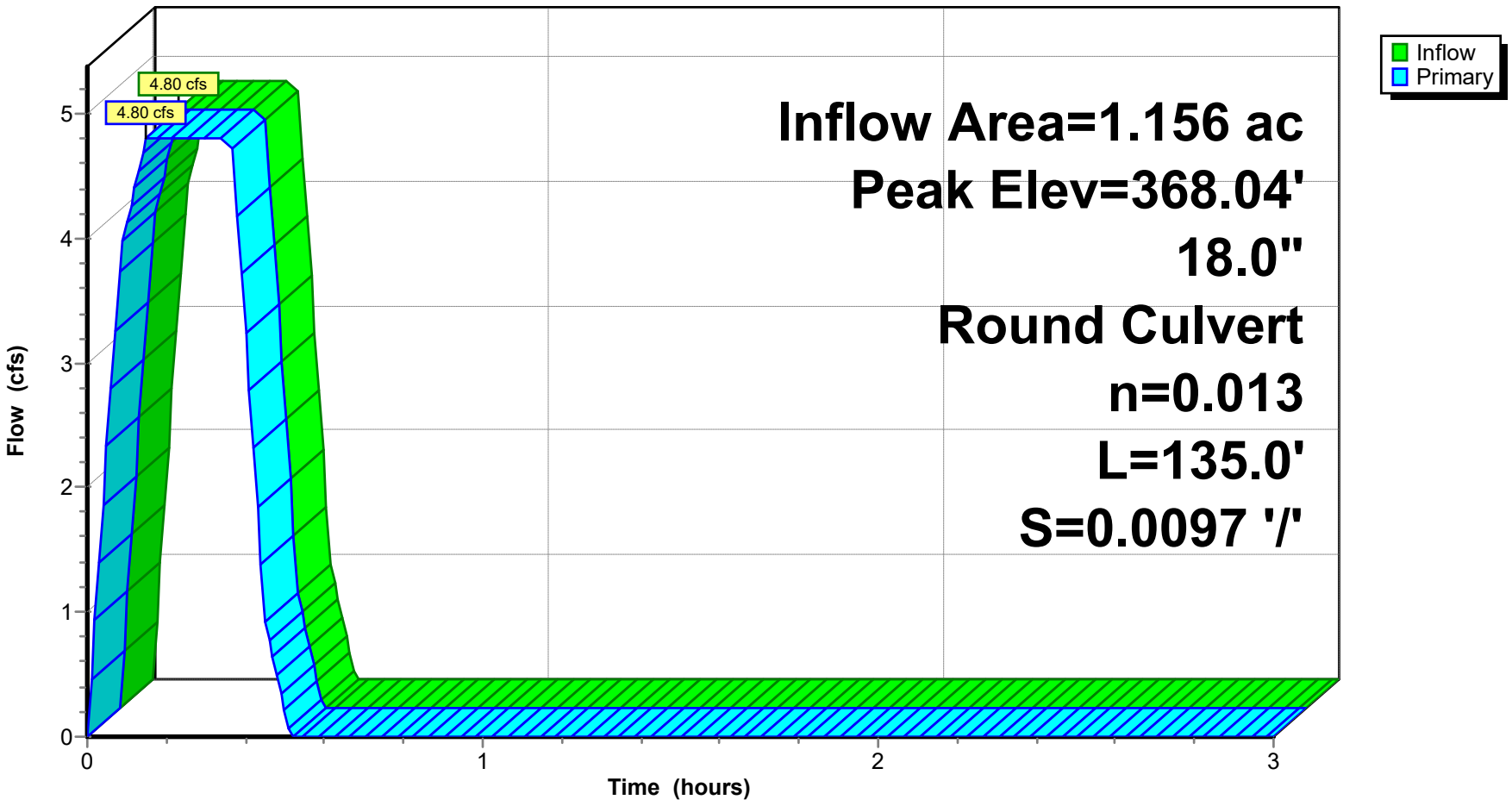
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 368.04' @ 0.15 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	367.03'	**18.0" Round RCP_Round 18"** L= 135.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 367.03' / 365.72' S= 0.0097 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.77 sf

Primary OutFlow Max=4.80 cfs @ 0.15 hrs HW=368.04' (Free Discharge)
1=RCP_Round 18" (Barrel Controls 4.80 cfs @ 5.33 fps)

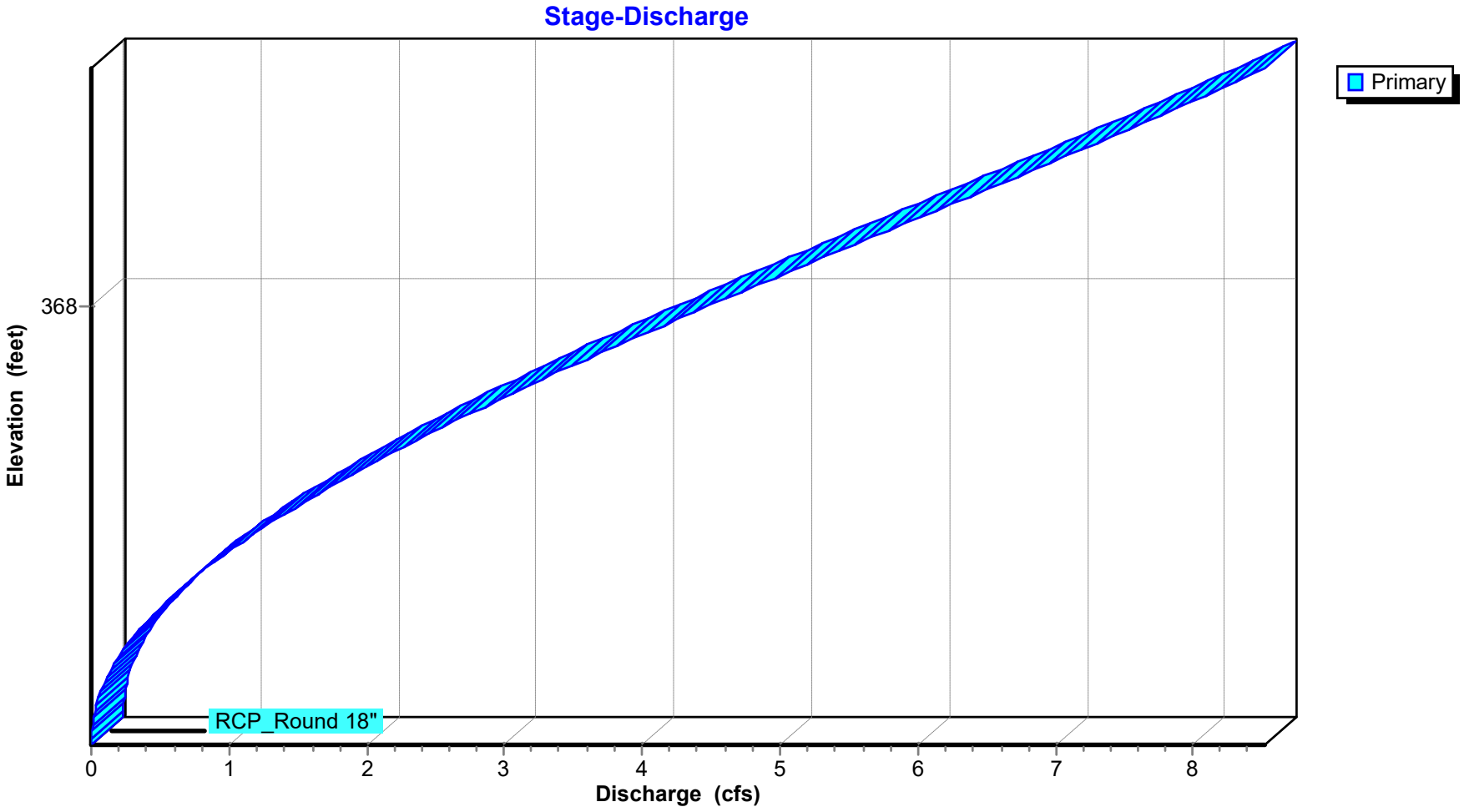
Pond CI-A2: CURB INLET A2

Hydrograph



Pond CI-A2: CURB INLET A2

Stage-Discharge



Stage-Area-Storage for Pond CI-A2: CURB INLET A2

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
367.03	**0.000**	367.95	0.000
367.04	0.000	367.96	0.000
367.05	0.000	367.97	0.000
367.06	0.000	367.98	0.000
367.07	0.000	367.99	0.000
367.08	0.000	368.00	0.000
367.09	0.000	368.01	0.000
367.10	0.000	368.02	0.000
367.11	0.000	368.03	0.000
367.12	0.000	368.04	0.000
367.13	0.000	368.05	0.000
367.14	0.000	368.06	0.000
367.15	0.000	368.07	0.000
367.16	0.000	368.08	0.000
367.17	0.000	368.09	0.000
367.18	0.000	368.10	0.000
367.19	0.000	368.11	0.000
367.20	0.000	368.12	0.000
367.21	0.000	368.13	0.000
367.22	0.000	368.14	0.000
367.23	0.000	368.15	0.000
367.24	0.000	368.16	0.000
367.25	0.000	368.17	0.000
367.26	0.000	368.18	0.000
367.27	0.000	368.19	0.000
367.28	0.000	368.20	0.000
367.29	0.000	368.21	0.000
367.30	0.000	368.22	0.000
367.31	0.000	368.23	0.000
367.32	0.000	368.24	0.000
367.33	0.000	368.25	0.000
367.34	0.000	368.26	0.000
367.35	0.000	368.27	0.000
367.36	0.000	368.28	0.000
367.37	0.000	368.29	0.000
367.38	0.000	368.30	0.000
367.39	0.000	368.31	0.000
367.40	0.000	368.32	0.000
367.41	0.000	368.33	0.000
367.42	0.000	368.34	0.000
367.43	0.000	368.35	0.000
367.44	0.000	368.36	0.000
367.45	0.000	368.37	0.000
367.46	0.000	368.38	0.000
367.47	0.000	368.39	0.000
367.48	0.000	368.40	0.000
367.49	0.000	368.41	0.000
367.50	0.000	368.42	0.000
367.51	0.000	368.43	0.000
367.52	0.000	368.44	0.000
367.53	0.000	368.45	0.000
367.54	0.000	368.46	0.000
367.55	0.000	368.47	0.000
367.56	0.000	368.48	0.000
367.57	0.000	368.49	0.000
367.58	0.000	368.50	0.000
367.59	0.000	368.51	0.000
367.60	0.000	368.52	0.000
367.61	0.000	368.53	0.000
367.62	0.000		
367.63	0.000		
367.64	0.000		
367.65	0.000		
367.66	0.000		
367.67	0.000		
367.68	0.000		
367.69	0.000		
367.70	0.000		
367.71	0.000		
367.72	0.000		
367.73	0.000		
367.74	0.000		
367.75	0.000		
367.76	0.000		
367.77	0.000		
367.78	0.000		
367.79	0.000		
367.80	0.000		
367.81	0.000		
367.82	0.000		
367.83	0.000		
367.84	0.000		
367.85	0.000		
367.86	0.000		
367.87	0.000		
367.88	0.000		
367.89	0.000		
367.90	0.000		
367.91	0.000		
367.92	0.000		
367.93	0.000		
367.94	0.000		

Summary for Pond CI-A3: CURB INLET A3

Inflow Area = 1.426 ac, 0.00% Impervious, Inflow Depth = 1.52" for 100-yr event
Inflow = 5.97 cfs @ 0.15 hrs, Volume= 0.181 af
Outflow = 5.97 cfs @ 0.15 hrs, Volume= 0.181 af, Atten= 0%, Lag= 0.0 min
Primary = 5.97 cfs @ 0.15 hrs, Volume= 0.181 af
Routed to Pond CI-A4 : CURB INLET A4

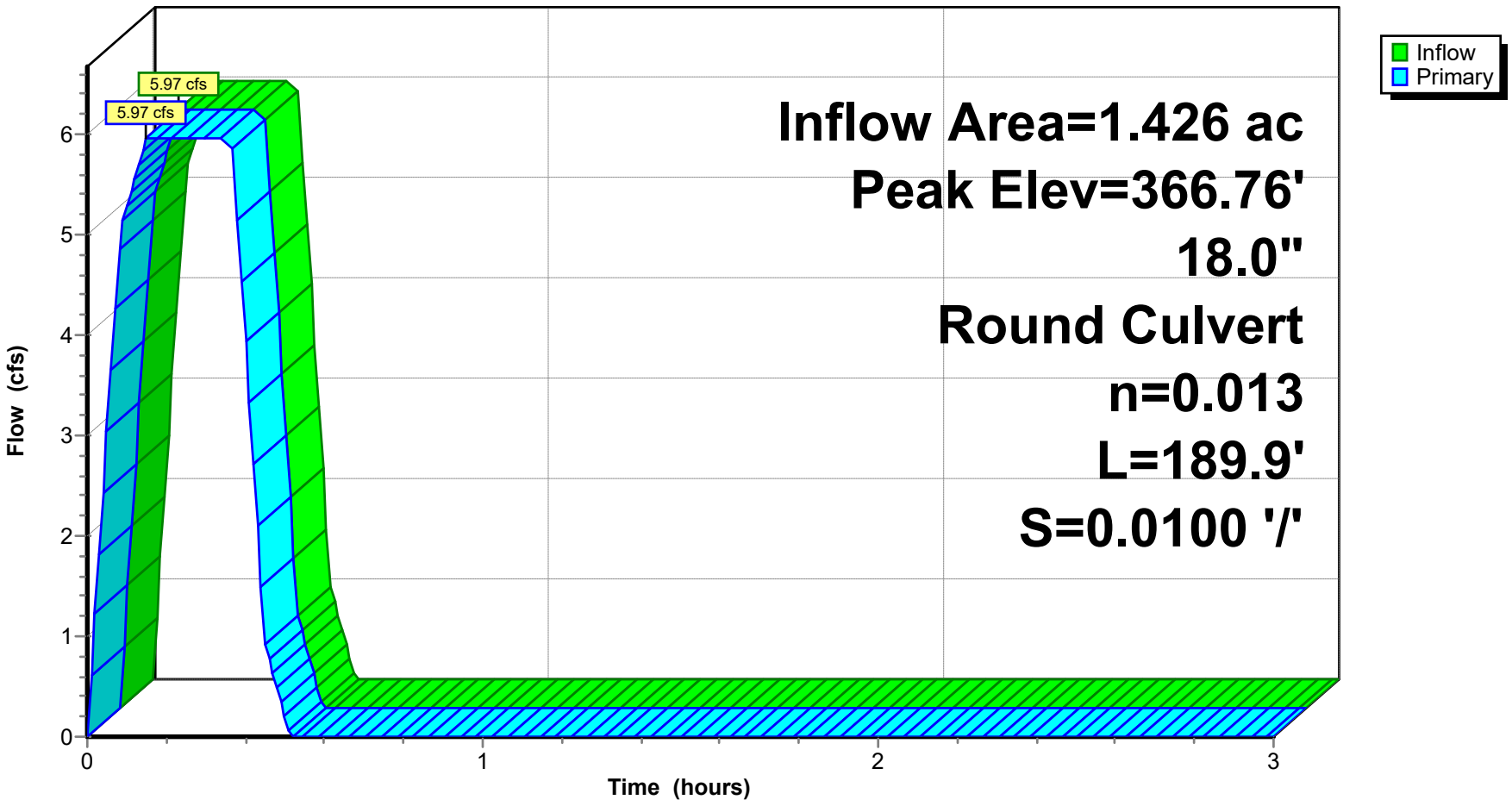
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 366.76' @ 0.15 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	365.62'	**18.0" Round RCP_Round 18"** L= 189.9' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 365.62' / 363.72' S= 0.0100 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.77 sf

Primary OutFlow Max=5.97 cfs @ 0.15 hrs HW=366.76' (Free Discharge)
1=RCP_Round 18" (Barrel Controls 5.97 cfs @ 5.76 fps)

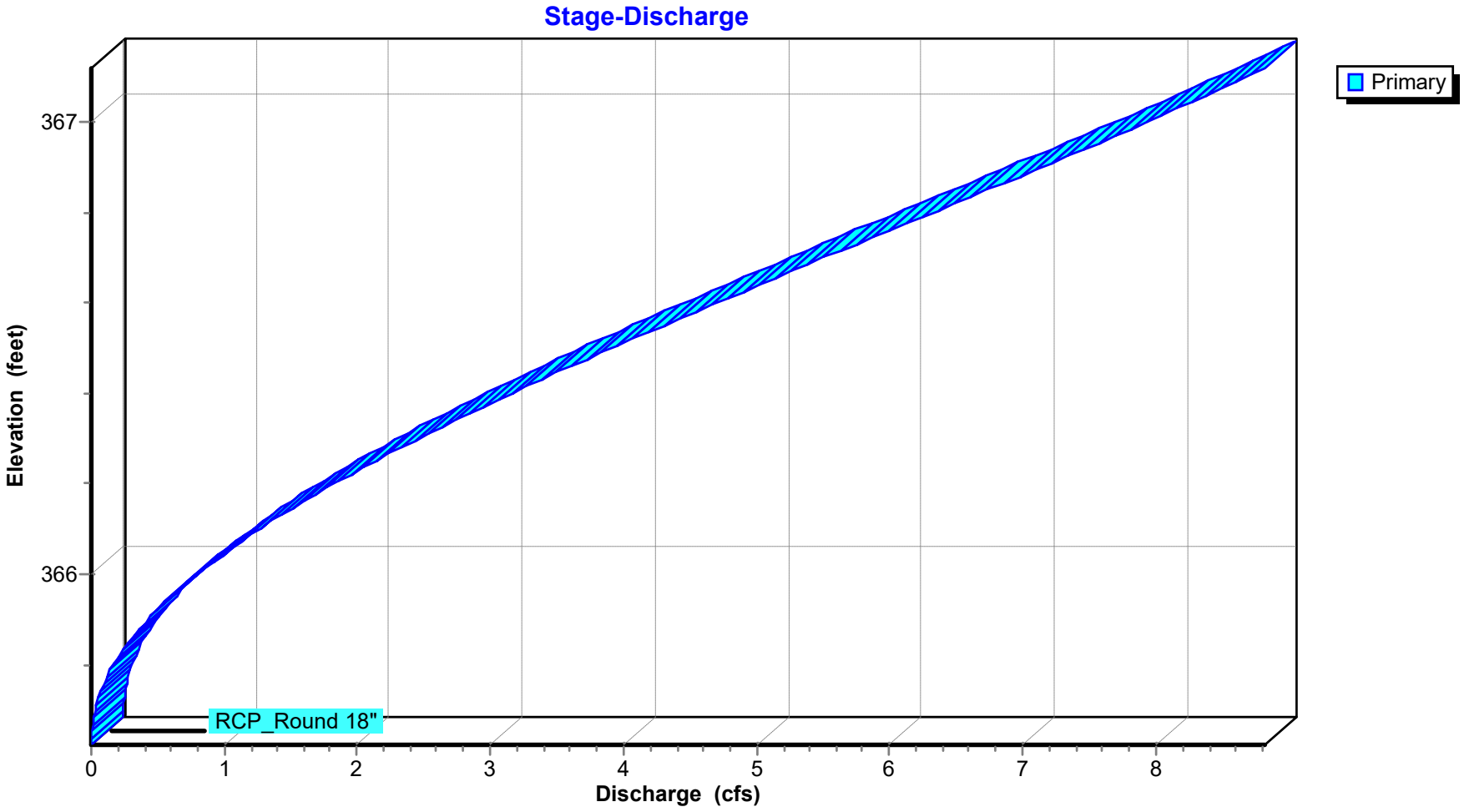
Pond CI-A3: CURB INLET A3

Hydrograph



Pond CI-A3: CURB INLET A3

Stage-Discharge



Stage-Area-Storage for Pond CI-A3: CURB INLET A3

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
365.62	**0.000**	366.54	0.000
365.63	0.000	366.55	0.000
365.64	0.000	366.56	0.000
365.65	0.000	366.57	0.000
365.66	0.000	366.58	0.000
365.67	0.000	366.59	0.000
365.68	0.000	366.60	0.000
365.69	0.000	366.61	0.000
365.70	0.000	366.62	0.000
365.71	0.000	366.63	0.000
365.72	0.000	366.64	0.000
365.73	0.000	366.65	0.000
365.74	0.000	366.66	0.000
365.75	0.000	366.67	0.000
365.76	0.000	366.68	0.000
365.77	0.000	366.69	0.000
365.78	0.000	366.70	0.000
365.79	0.000	366.71	0.000
365.80	0.000	366.72	0.000
365.81	0.000	366.73	0.000
365.82	0.000	366.74	0.000
365.83	0.000	366.75	0.000
365.84	0.000	366.76	0.000
365.85	0.000	366.77	0.000
365.86	0.000	366.78	0.000
365.87	0.000	366.79	0.000
365.88	0.000	366.80	0.000
365.89	0.000	366.81	0.000
365.90	0.000	366.82	0.000
365.91	0.000	366.83	0.000
365.92	0.000	366.84	0.000
365.93	0.000	366.85	0.000
365.94	0.000	366.86	0.000
365.95	0.000	366.87	0.000
365.96	0.000	366.88	0.000
365.97	0.000	366.89	0.000
365.98	0.000	366.90	0.000
365.99	0.000	366.91	0.000
366.00	0.000	366.92	0.000
366.01	0.000	366.93	0.000
366.02	0.000	366.94	0.000
366.03	0.000	366.95	0.000
366.04	0.000	366.96	0.000
366.05	0.000	366.97	0.000
366.06	0.000	366.98	0.000
366.07	0.000	366.99	0.000
366.08	0.000	367.00	0.000
366.09	0.000	367.01	0.000
366.10	0.000	367.02	0.000
366.11	0.000	367.03	0.000
366.12	0.000	367.04	0.000
366.13	0.000	367.05	0.000
366.14	0.000	367.06	0.000
366.15	0.000	367.07	0.000
366.16	0.000	367.08	0.000
366.17	0.000	367.09	0.000
366.18	0.000	367.10	0.000
366.19	0.000	367.11	0.000
366.20	0.000	367.12	0.000
366.21	0.000		
366.22	0.000		
366.23	0.000		
366.24	0.000		
366.25	0.000		
366.26	0.000		
366.27	0.000		
366.28	0.000		
366.29	0.000		
366.30	0.000		
366.31	0.000		
366.32	0.000		
366.33	0.000		
366.34	0.000		
366.35	0.000		
366.36	0.000		
366.37	0.000		
366.38	0.000		
366.39	0.000		
366.40	0.000		
366.41	0.000		
366.42	0.000		
366.43	0.000		
366.44	0.000		
366.45	0.000		
366.46	0.000		
366.47	0.000		
366.48	0.000		
366.49	0.000		
366.50	0.000		
366.51	0.000		
366.52	0.000		
366.53	0.000		

Summary for Pond CI-A4: CURB INLET A4

Inflow Area = 2.197 ac, 0.00% Impervious, Inflow Depth = 1.49" for 100-yr event
Inflow = 9.03 cfs @ 0.15 hrs, Volume= 0.273 af
Outflow = 9.03 cfs @ 0.16 hrs, Volume= 0.273 af, Atten= 0%, Lag= 0.6 min
Primary = 9.03 cfs @ 0.16 hrs, Volume= 0.273 af
Routed to Pond CI-A5 : CURB INLET A5

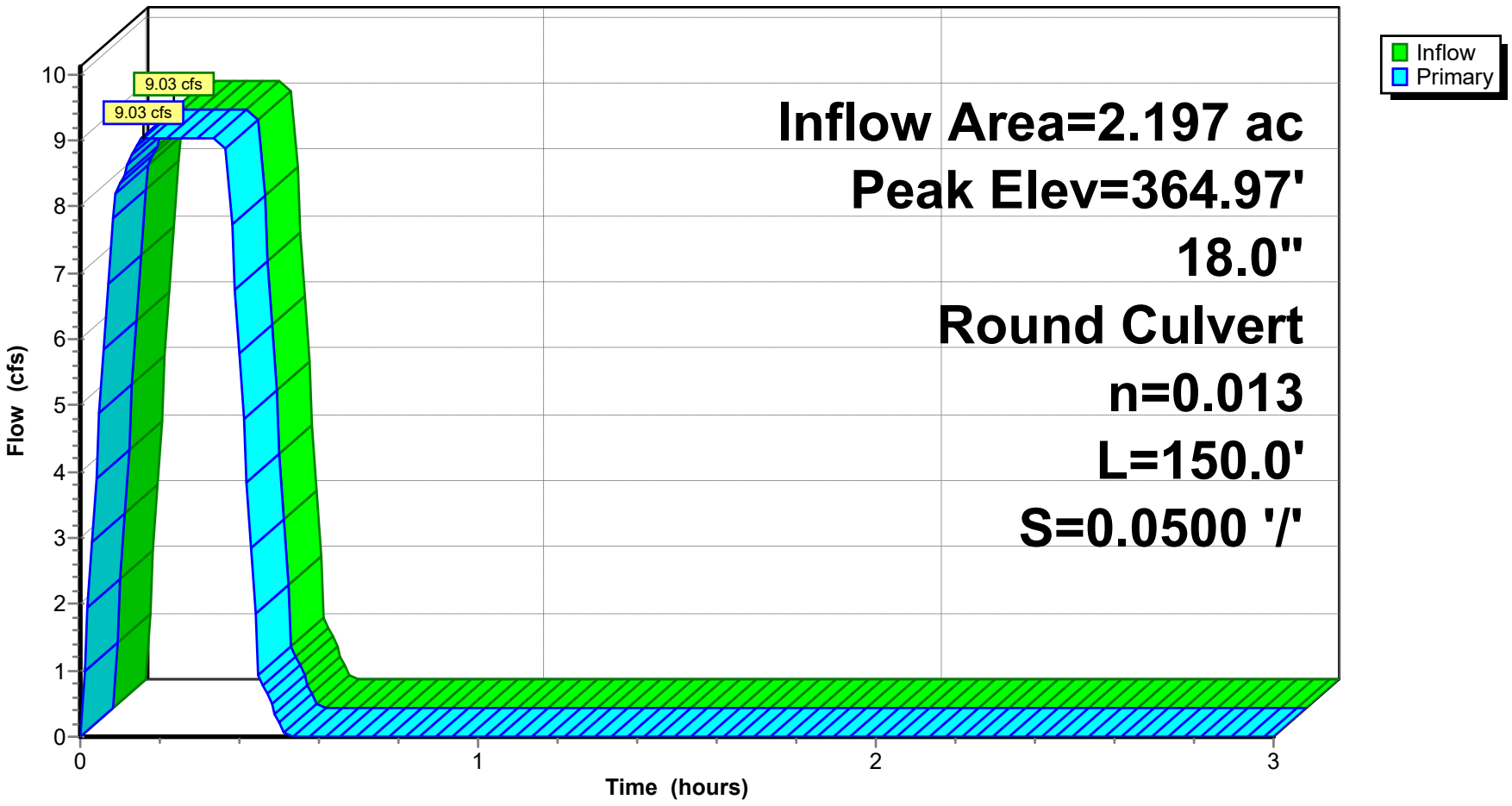
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 364.97' @ 0.15 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	363.62'	**18.0" Round RCP_Round 18"** L= 150.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 363.62' / 356.12' S= 0.0500 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.77 sf

Primary OutFlow Max=9.03 cfs @ 0.16 hrs HW=364.97' (Free Discharge)
1=RCP_Round 18" (Inlet Controls 9.03 cfs @ 5.39 fps)

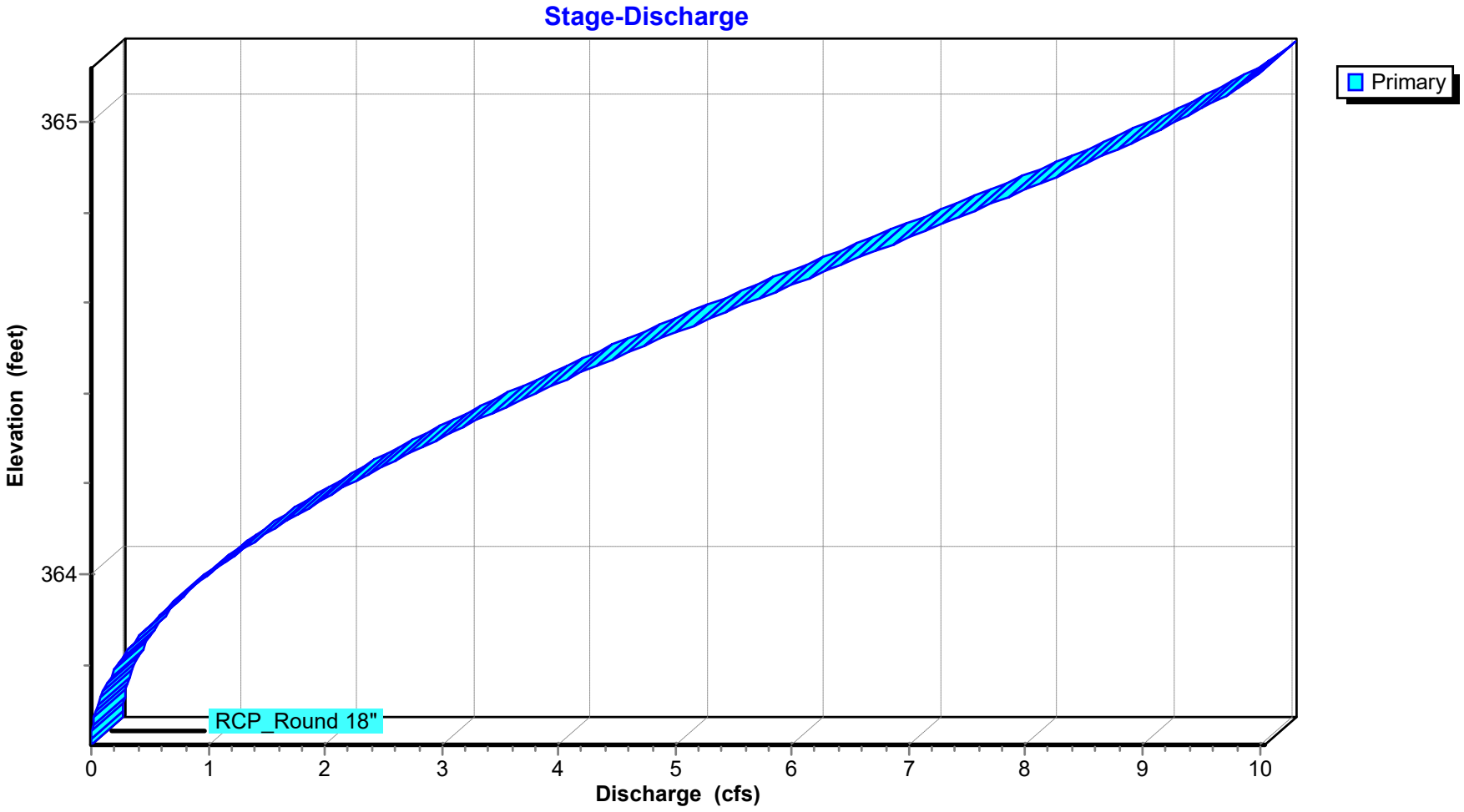
Pond CI-A4: CURB INLET A4

Hydrograph



Pond CI-A4: CURB INLET A4

Stage-Discharge



Stage-Area-Storage for Pond CI-A4: CURB INLET A4

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
363.62	**0.000**	364.54	0.000
363.63	0.000	364.55	0.000
363.64	0.000	364.56	0.000
363.65	0.000	364.57	0.000
363.66	0.000	364.58	0.000
363.67	0.000	364.59	0.000
363.68	0.000	364.60	0.000
363.69	0.000	364.61	0.000
363.70	0.000	364.62	0.000
363.71	0.000	364.63	0.000
363.72	0.000	364.64	0.000
363.73	0.000	364.65	0.000
363.74	0.000	364.66	0.000
363.75	0.000	364.67	0.000
363.76	0.000	364.68	0.000
363.77	0.000	364.69	0.000
363.78	0.000	364.70	0.000
363.79	0.000	364.71	0.000
363.80	0.000	364.72	0.000
363.81	0.000	364.73	0.000
363.82	0.000	364.74	0.000
363.83	0.000	364.75	0.000
363.84	0.000	364.76	0.000
363.85	0.000	364.77	0.000
363.86	0.000	364.78	0.000
363.87	0.000	364.79	0.000
363.88	0.000	364.80	0.000
363.89	0.000	364.81	0.000
363.90	0.000	364.82	0.000
363.91	0.000	364.83	0.000
363.92	0.000	364.84	0.000
363.93	0.000	364.85	0.000
363.94	0.000	364.86	0.000
363.95	0.000	364.87	0.000
363.96	0.000	364.88	0.000
363.97	0.000	364.89	0.000
363.98	0.000	364.90	0.000
363.99	0.000	364.91	0.000
364.00	0.000	364.92	0.000
364.01	0.000	364.93	0.000
364.02	0.000	364.94	0.000
364.03	0.000	364.95	0.000
364.04	0.000	364.96	0.000
364.05	0.000	364.97	0.000
364.06	0.000	364.98	0.000
364.07	0.000	364.99	0.000
364.08	0.000	365.00	0.000
364.09	0.000	365.01	0.000
364.10	0.000	365.02	0.000
364.11	0.000	365.03	0.000
364.12	0.000	365.04	0.000
364.13	0.000	365.05	0.000
364.14	0.000	365.06	0.000
364.15	0.000	365.07	0.000
364.16	0.000	365.08	0.000
364.17	0.000	365.09	0.000
364.18	0.000	365.10	0.000
364.19	0.000	365.11	0.000
364.20	0.000	365.12	0.000
364.21	0.000		
364.22	0.000		
364.23	0.000		
364.24	0.000		
364.25	0.000		
364.26	0.000		
364.27	0.000		
364.28	0.000		
364.29	0.000		
364.30	0.000		
364.31	0.000		
364.32	0.000		
364.33	0.000		
364.34	0.000		
364.35	0.000		
364.36	0.000		
364.37	0.000		
364.38	0.000		
364.39	0.000		
364.40	0.000		
364.41	0.000		
364.42	0.000		
364.43	0.000		
364.44	0.000		
364.45	0.000		
364.46	0.000		
364.47	0.000		
364.48	0.000		
364.49	0.000		
364.50	0.000		
364.51	0.000		
364.52	0.000		
364.53	0.000		

Summary for Pond CI-A5: CURB INLET A5

Inflow Area = 2.439 ac, 0.00% Impervious, Inflow Depth = 1.45" for 100-yr event
Inflow = 9.72 cfs @ 0.16 hrs, Volume= 0.294 af
Outflow = 9.72 cfs @ 0.16 hrs, Volume= 0.294 af, Atten= 0%, Lag= 0.0 min
Primary = 9.72 cfs @ 0.16 hrs, Volume= 0.294 af
Routed to Link POST-DEV : Post-Development

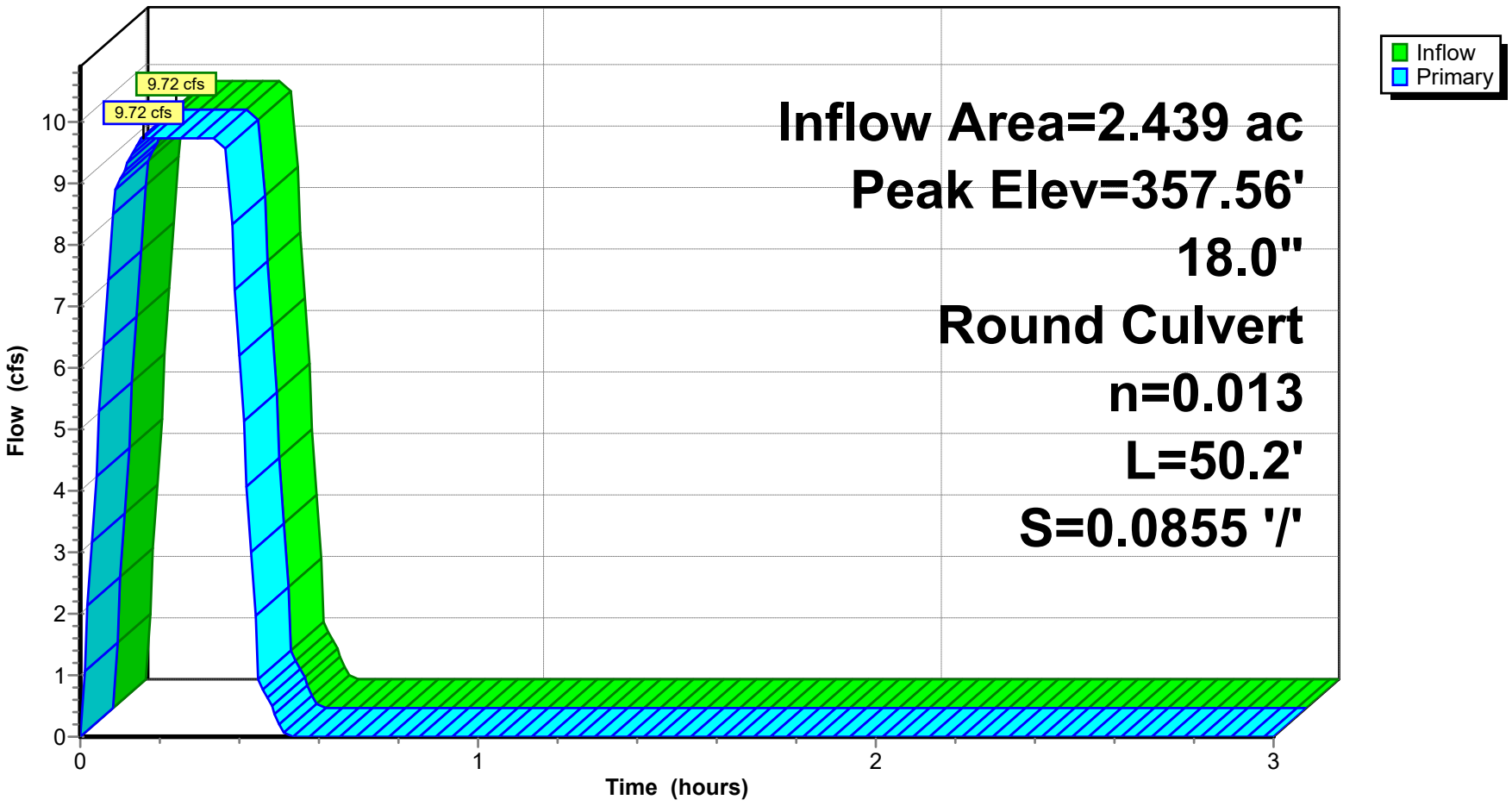
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 357.56' @ 0.15 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	356.12'	**18.0" Round RCP_Round 18** L= 50.2' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 356.12' / 351.83' S= 0.0855 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.77 sf

Primary OutFlow Max=9.72 cfs @ 0.16 hrs HW=357.56' (Free Discharge)
1=RCP_Round 18 (Inlet Controls 9.72 cfs @ 5.57 fps)

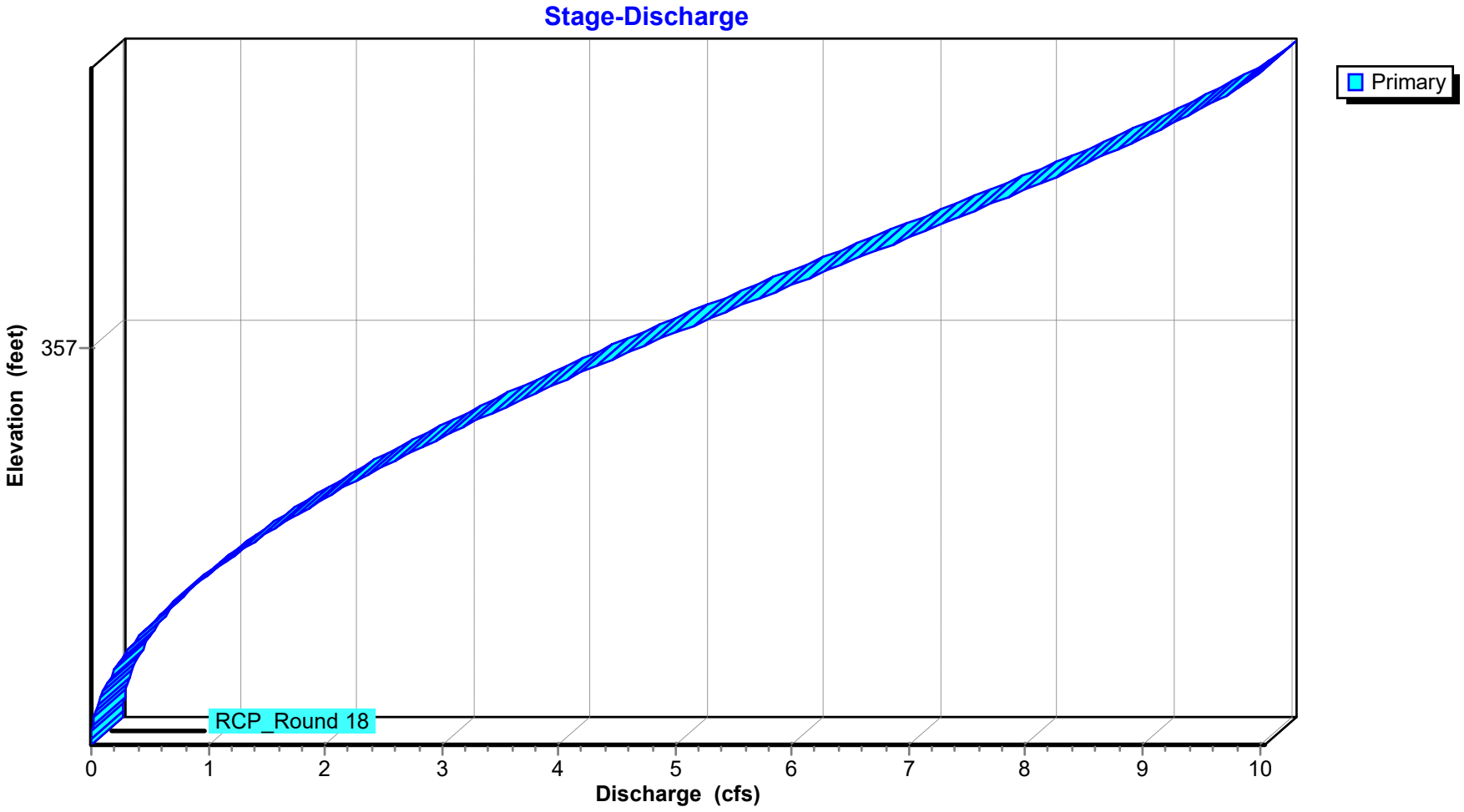
Pond CI-A5: CURB INLET A5

Hydrograph



Pond CI-A5: CURB INLET A5

Stage-Discharge



Stage-Area-Storage for Pond CI-A5: CURB INLET A5

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
356.12	**0.000**	357.04	0.000
356.13	0.000	357.05	0.000
356.14	0.000	357.06	0.000
356.15	0.000	357.07	0.000
356.16	0.000	357.08	0.000
356.17	0.000	357.09	0.000
356.18	0.000	357.10	0.000
356.19	0.000	357.11	0.000
356.20	0.000	357.12	0.000
356.21	0.000	357.13	0.000
356.22	0.000	357.14	0.000
356.23	0.000	357.15	0.000
356.24	0.000	357.16	0.000
356.25	0.000	357.17	0.000
356.26	0.000	357.18	0.000
356.27	0.000	357.19	0.000
356.28	0.000	357.20	0.000
356.29	0.000	357.21	0.000
356.30	0.000	357.22	0.000
356.31	0.000	357.23	0.000
356.32	0.000	357.24	0.000
356.33	0.000	357.25	0.000
356.34	0.000	357.26	0.000
356.35	0.000	357.27	0.000
356.36	0.000	357.28	0.000
356.37	0.000	357.29	0.000
356.38	0.000	357.30	0.000
356.39	0.000	357.31	0.000
356.40	0.000	357.32	0.000
356.41	0.000	357.33	0.000
356.42	0.000	357.34	0.000
356.43	0.000	357.35	0.000
356.44	0.000	357.36	0.000
356.45	0.000	357.37	0.000
356.46	0.000	357.38	0.000
356.47	0.000	357.39	0.000
356.48	0.000	357.40	0.000
356.49	0.000	357.41	0.000
356.50	0.000	357.42	0.000
356.51	0.000	357.43	0.000
356.52	0.000	357.44	0.000
356.53	0.000	357.45	0.000
356.54	0.000	357.46	0.000
356.55	0.000	357.47	0.000
356.56	0.000	357.48	0.000
356.57	0.000	357.49	0.000
356.58	0.000	357.50	0.000
356.59	0.000	357.51	0.000
356.60	0.000	357.52	0.000
356.61	0.000	357.53	0.000
356.62	0.000	357.54	0.000
356.63	0.000	357.55	0.000
356.64	0.000	357.56	0.000
356.65	0.000	357.57	0.000
356.66	0.000	357.58	0.000
356.67	0.000	357.59	0.000
356.68	0.000	357.60	0.000
356.69	0.000	357.61	0.000
356.70	0.000	357.62	0.000
356.71	0.000		
356.72	0.000		
356.73	0.000		
356.74	0.000		
356.75	0.000		
356.76	0.000		
356.77	0.000		
356.78	0.000		
356.79	0.000		
356.80	0.000		
356.81	0.000		
356.82	0.000		
356.83	0.000		
356.84	0.000		
356.85	0.000		
356.86	0.000		
356.87	0.000		
356.88	0.000		
356.89	0.000		
356.90	0.000		
356.91	0.000		
356.92	0.000		
356.93	0.000		
356.94	0.000		
356.95	0.000		
356.96	0.000		
356.97	0.000		
356.98	0.000		
356.99	0.000		
357.00	0.000		
357.01	0.000		
357.02	0.000		
357.03	0.000		

Summary for Pond CI-C1: CURB INLET C1

Inflow Area = 0.210 ac, 0.00% Impervious, Inflow Depth = 1.26" for 100-yr event
Inflow = 0.73 cfs @ 0.09 hrs, Volume= 0.022 af
Outflow = 0.73 cfs @ 0.09 hrs, Volume= 0.022 af, Atten= 0%, Lag= 0.0 min
Primary = 0.73 cfs @ 0.09 hrs, Volume= 0.022 af
Routed to Pond CI-C2 : CURB INLET C2

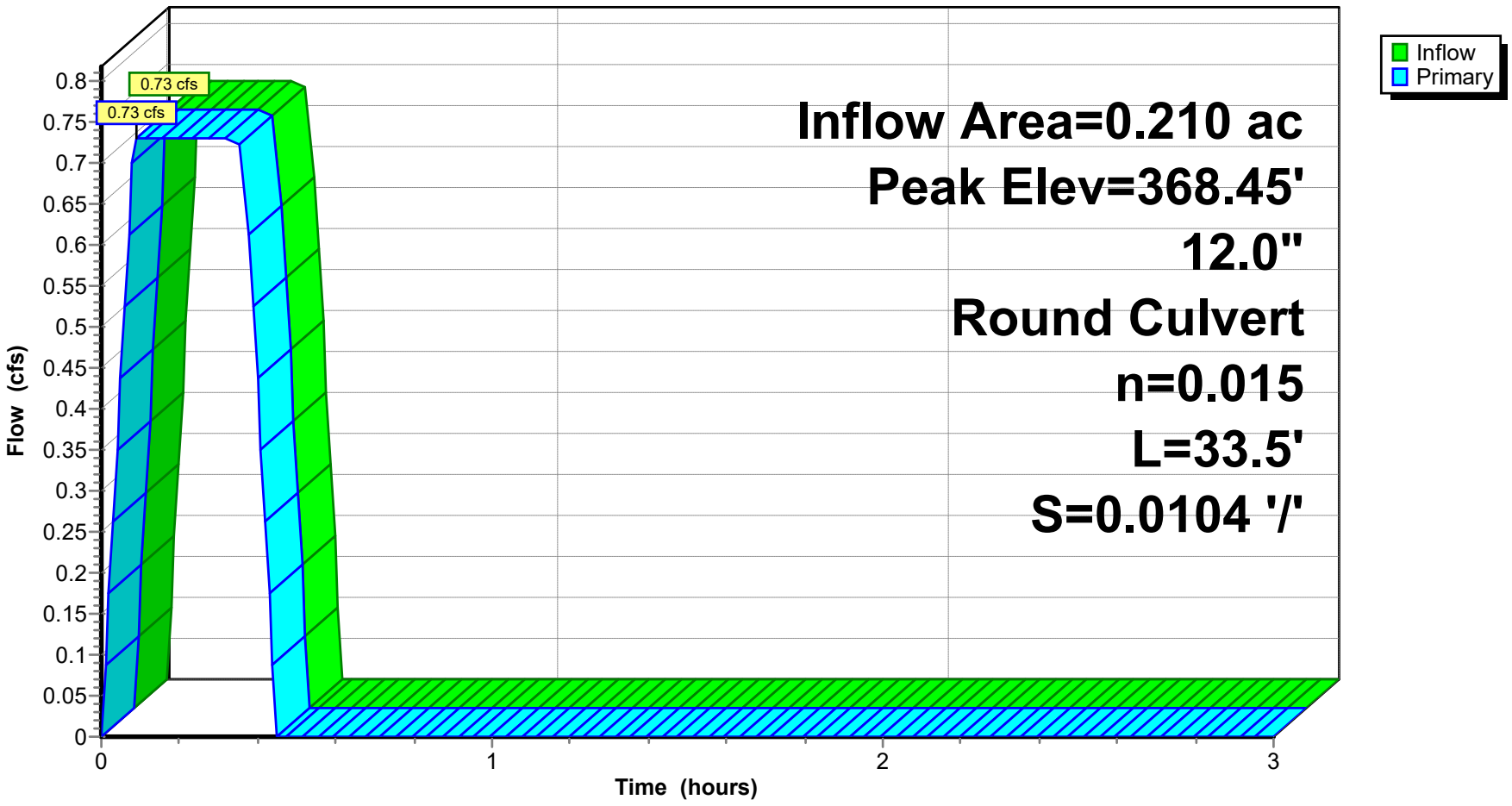
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 368.45' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	368.00'	**12.0" Round RCP_ROUND 12"** L= 33.5' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 368.00' / 367.65' S= 0.0104 '/' Cc= 0.900 n= 0.015 Concrete sewer w/manholes & inlets, Flow Area= 0.79 sf

Primary OutFlow Max=0.73 cfs @ 0.09 hrs HW=368.45' (Free Discharge)
1=RCP_ROUND 12" (Barrel Controls 0.73 cfs @ 3.09 fps)

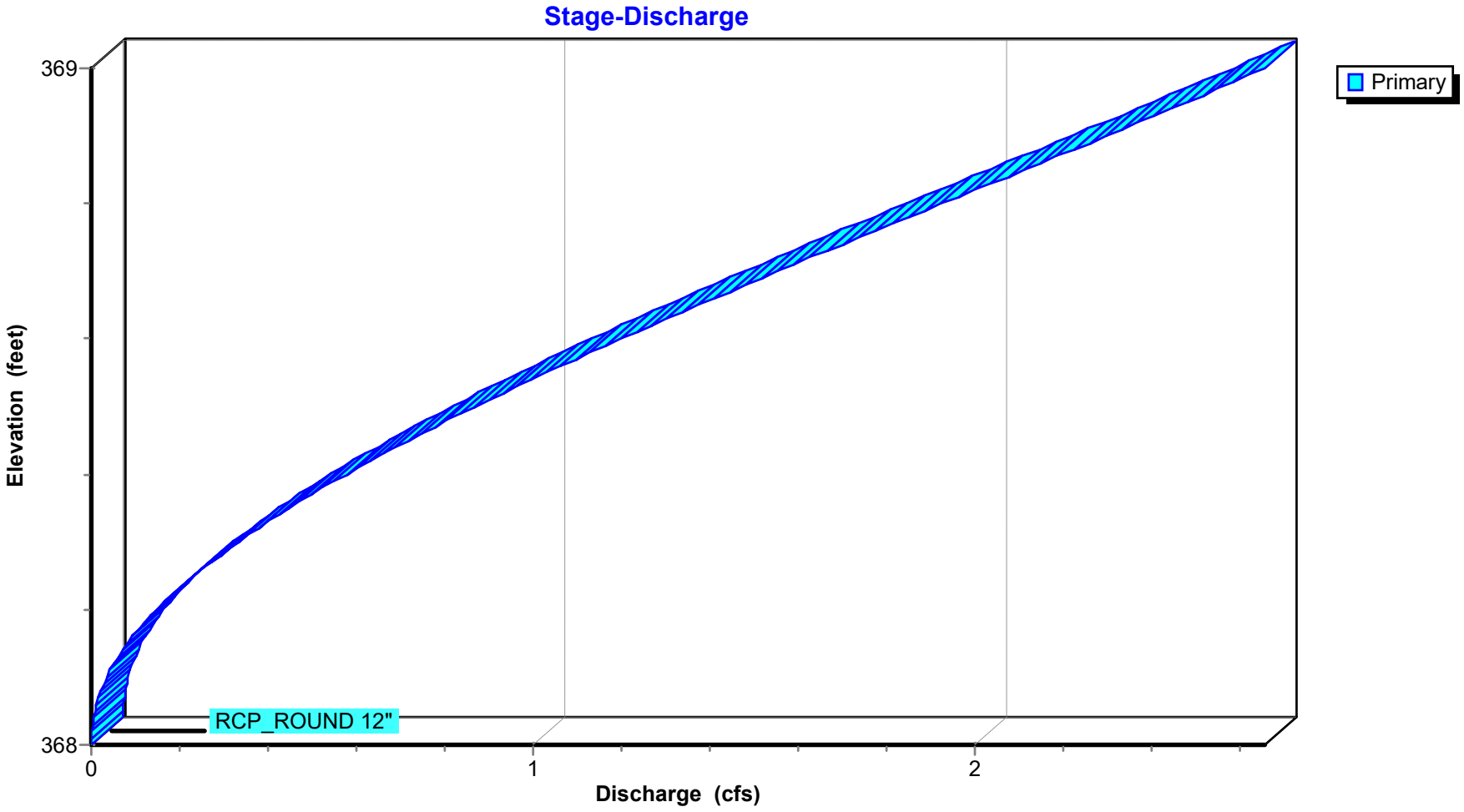
Pond CI-C1: CURB INLET C1

Hydrograph



Pond CI-C1: CURB INLET C1

Stage-Discharge



Stage-Area-Storage for Pond CI-C1: CURB INLET C1

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
368.00	**0.000**	368.92	0.000
368.01	0.000	368.93	0.000
368.02	0.000	368.94	0.000
368.03	0.000	368.95	0.000
368.04	0.000	368.96	0.000
368.05	0.000	368.97	0.000
368.06	0.000	368.98	0.000
368.07	0.000	368.99	0.000
368.08	0.000	369.00	0.000
368.09	0.000		
368.10	0.000		
368.11	0.000		
368.12	0.000		
368.13	0.000		
368.14	0.000		
368.15	0.000		
368.16	0.000		
368.17	0.000		
368.18	0.000		
368.19	0.000		
368.20	0.000		
368.21	0.000		
368.22	0.000		
368.23	0.000		
368.24	0.000		
368.25	0.000		
368.26	0.000		
368.27	0.000		
368.28	0.000		
368.29	0.000		
368.30	0.000		
368.31	0.000		
368.32	0.000		
368.33	0.000		
368.34	0.000		
368.35	0.000		
368.36	0.000		
368.37	0.000		
368.38	0.000		
368.39	0.000		
368.40	0.000		
368.41	0.000		
368.42	0.000		
368.43	0.000		
368.44	0.000		
368.45	0.000		
368.46	0.000		
368.47	0.000		
368.48	0.000		
368.49	0.000		
368.50	0.000		
368.51	0.000		
368.52	0.000		
368.53	0.000		
368.54	0.000		
368.55	0.000		
368.56	0.000		
368.57	0.000		
368.58	0.000		
368.59	0.000		
368.60	0.000		
368.61	0.000		
368.62	0.000		
368.63	0.000		
368.64	0.000		
368.65	0.000		
368.66	0.000		
368.67	0.000		
368.68	0.000		
368.69	0.000		
368.70	0.000		
368.71	0.000		
368.72	0.000		
368.73	0.000		
368.74	0.000		
368.75	0.000		
368.76	0.000		
368.77	0.000		
368.78	0.000		
368.79	0.000		
368.80	0.000		
368.81	0.000		
368.82	0.000		
368.83	0.000		
368.84	0.000		
368.85	0.000		
368.86	0.000		
368.87	0.000		
368.88	0.000		
368.89	0.000		
368.90	0.000		
368.91	0.000		

Summary for Pond CI-C2: CURB INLET C2

Inflow Area = 0.247 ac, 0.00% Impervious, Inflow Depth = 1.26" for 100-yr event
Inflow = 0.86 cfs @ 0.09 hrs, Volume= 0.026 af
Outflow = 0.86 cfs @ 0.15 hrs, Volume= 0.026 af, Atten= 0%, Lag= 3.6 min
Primary = 0.86 cfs @ 0.15 hrs, Volume= 0.026 af
Routed to Pond JB-C3 : JUNCTION BOX C3

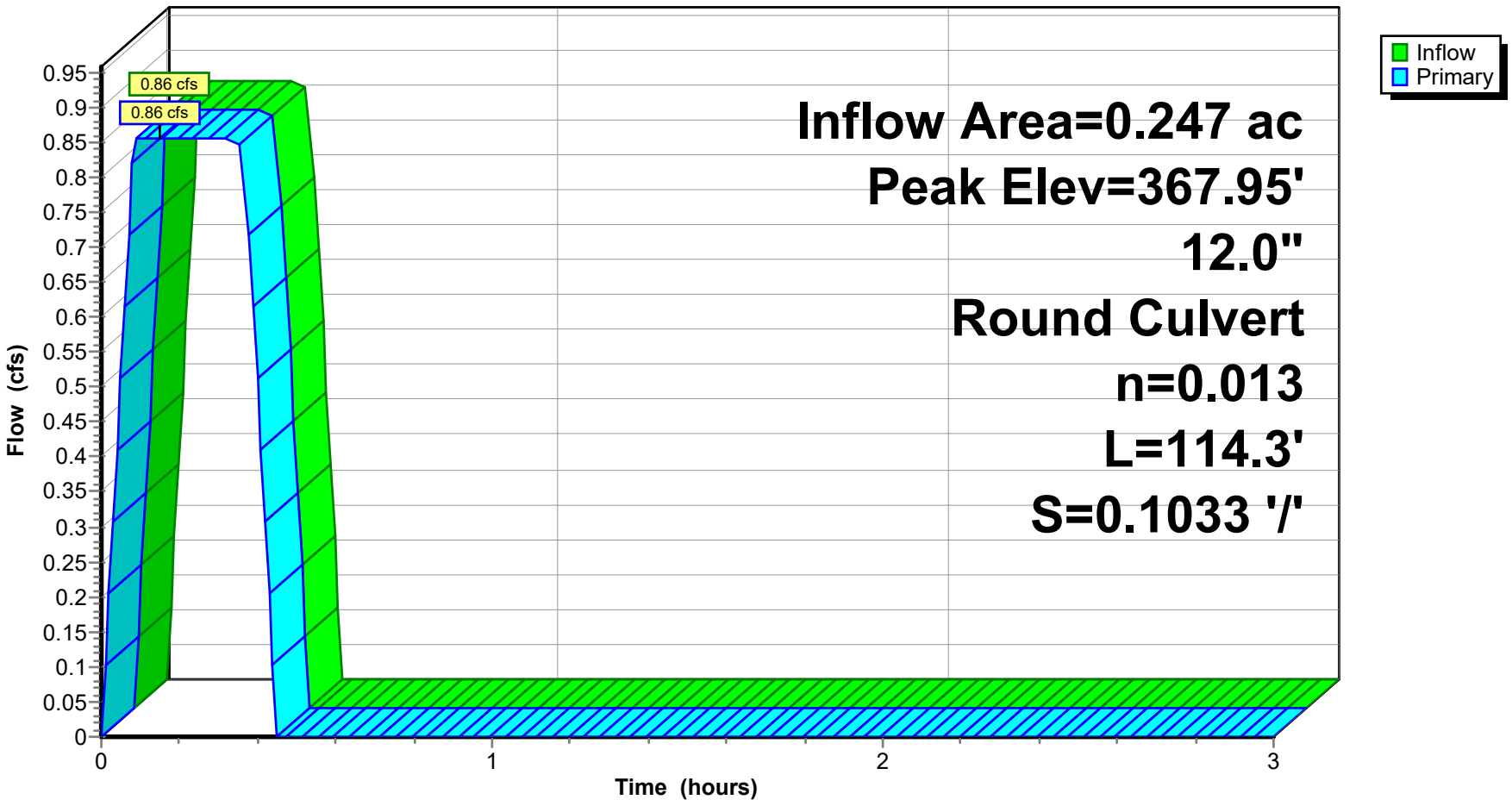
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 367.95' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	367.55'	**12.0" Round RCP_ROUND 12"** L= 114.3' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 367.55' / 355.74' S= 0.1033 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf

Primary OutFlow Max=0.86 cfs @ 0.15 hrs HW=367.95' (Free Discharge)
1=RCP_ROUND 12" (Inlet Controls 0.86 cfs @ 2.93 fps)

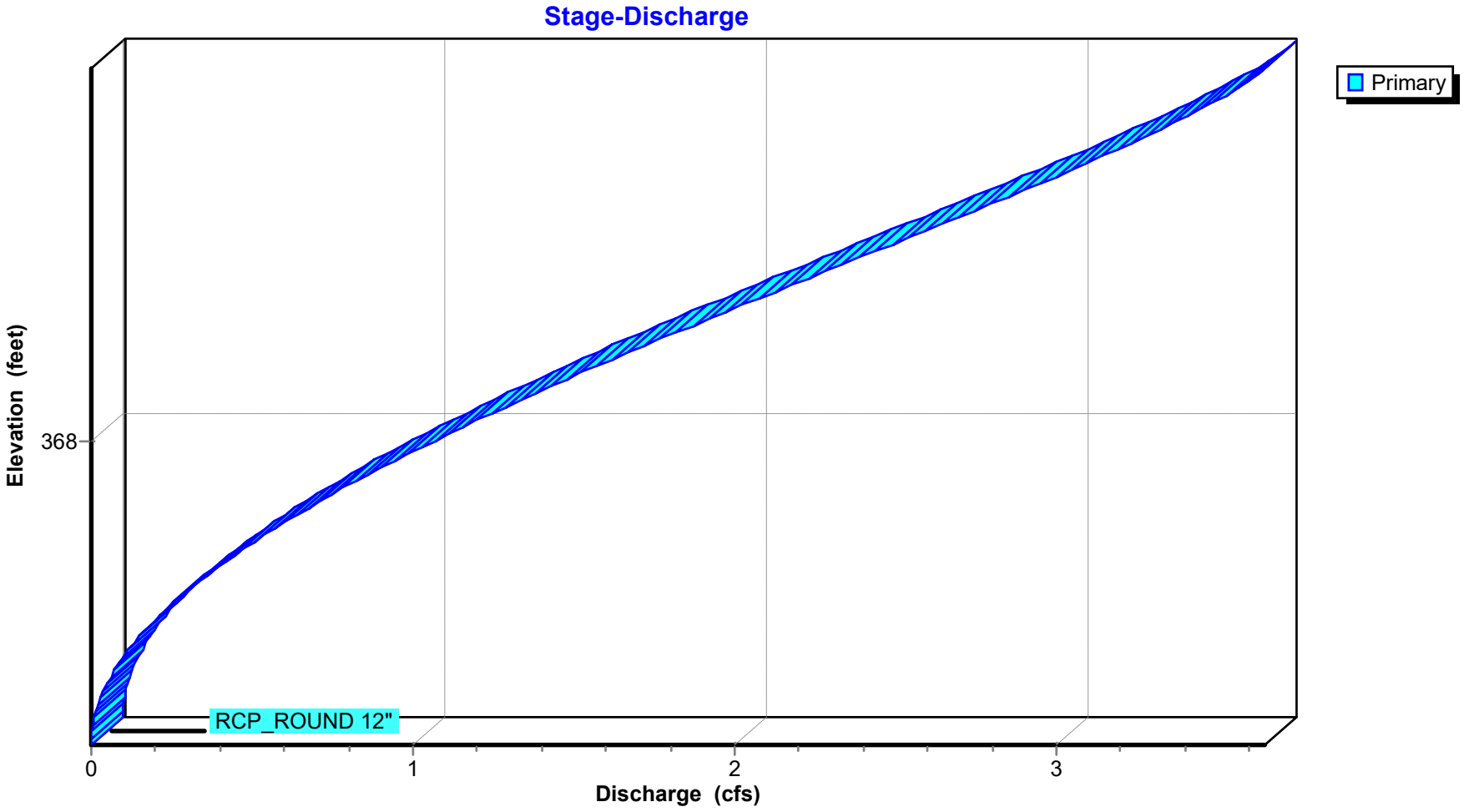
Pond CI-C2: CURB INLET C2

Hydrograph



Pond CI-C2: CURB INLET C2

Stage-Discharge



Stage-Area-Storage for Pond CI-C2: CURB INLET C2

Elevation (feet)	Storage (acre-feet)
367.55	**0.000**
367.56	0.000
367.57	0.000
367.58	0.000
367.59	0.000
367.60	0.000
367.61	0.000
367.62	0.000
367.63	0.000
367.64	0.000
367.65	0.000
367.66	0.000
367.67	0.000
367.68	0.000
367.69	0.000
367.70	0.000
367.71	0.000
367.72	0.000
367.73	0.000
367.74	0.000
367.75	0.000
367.76	0.000
367.77	0.000
367.78	0.000
367.79	0.000
367.80	0.000
367.81	0.000
367.82	0.000
367.83	0.000
367.84	0.000
367.85	0.000
367.86	0.000
367.87	0.000
367.88	0.000
367.89	0.000
367.90	0.000
367.91	0.000
367.92	0.000
367.93	0.000
367.94	0.000
367.95	0.000
367.96	0.000
367.97	0.000
367.98	0.000
367.99	0.000
368.00	0.000
368.01	0.000
368.02	0.000
368.03	0.000
368.04	0.000
368.05	0.000
368.06	0.000
368.07	0.000
368.08	0.000
368.09	0.000
368.10	0.000
368.11	0.000
368.12	0.000
368.13	0.000
368.14	0.000
368.15	0.000
368.16	0.000
368.17	0.000
368.18	0.000
368.19	0.000
368.20	0.000
368.21	0.000
368.22	0.000
368.23	0.000
368.24	0.000
368.25	0.000
368.26	0.000
368.27	0.000
368.28	0.000
368.29	0.000
368.30	0.000
368.31	0.000
368.32	0.000
368.33	0.000
368.34	0.000
368.35	0.000
368.36	0.000
368.37	0.000
368.38	0.000
368.39	0.000
368.40	0.000
368.41	0.000
368.42	0.000
368.43	0.000
368.44	0.000
368.45	0.000
368.46	0.000
368.47	0.000
368.48	0.000
368.49	0.000
368.50	0.000
368.51	0.000
368.52	0.000
368.53	0.000
368.54	0.000
368.55	0.000

Summary for Pond CI-C4: CURB INLET C4

Inflow Area = 0.965 ac, 0.00% Impervious, Inflow Depth = 1.26" for 100-yr event
Inflow = 3.35 cfs @ 0.15 hrs, Volume= 0.102 af
Outflow = 3.35 cfs @ 0.15 hrs, Volume= 0.102 af, Atten= 0%, Lag= 0.0 min
Primary = 3.35 cfs @ 0.15 hrs, Volume= 0.102 af
Routed to Pond CI-C5 : CURB INLET C5

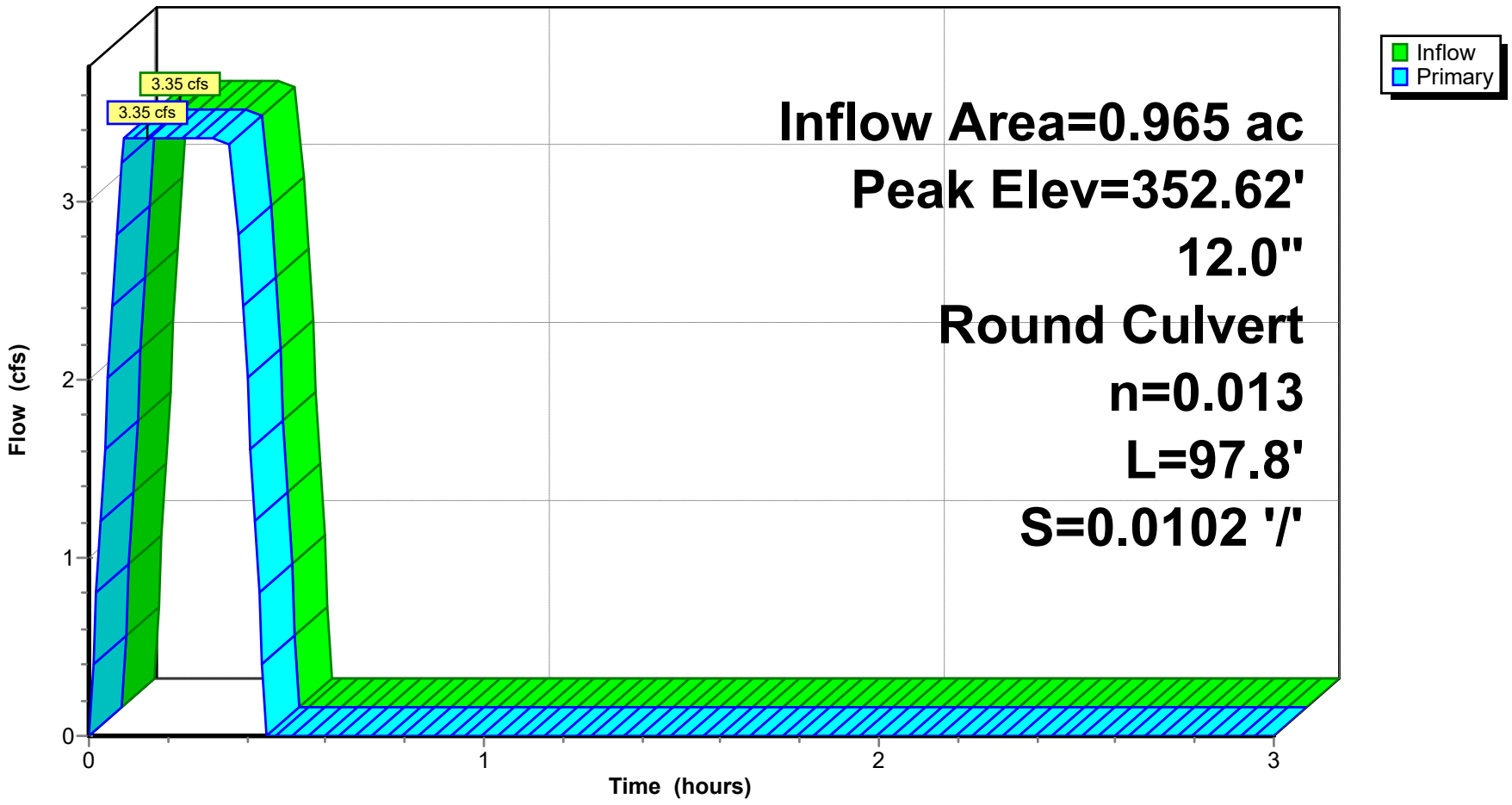
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 352.62' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	351.53'	**12.0" Round RCP_ROUND 12"** L= 97.8' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 351.53' / 350.53' S= 0.0102 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf

Primary OutFlow Max=3.35 cfs @ 0.15 hrs HW=352.62' (Free Discharge)
1=RCP_ROUND 12" (Barrel Controls 3.35 cfs @ 4.87 fps)

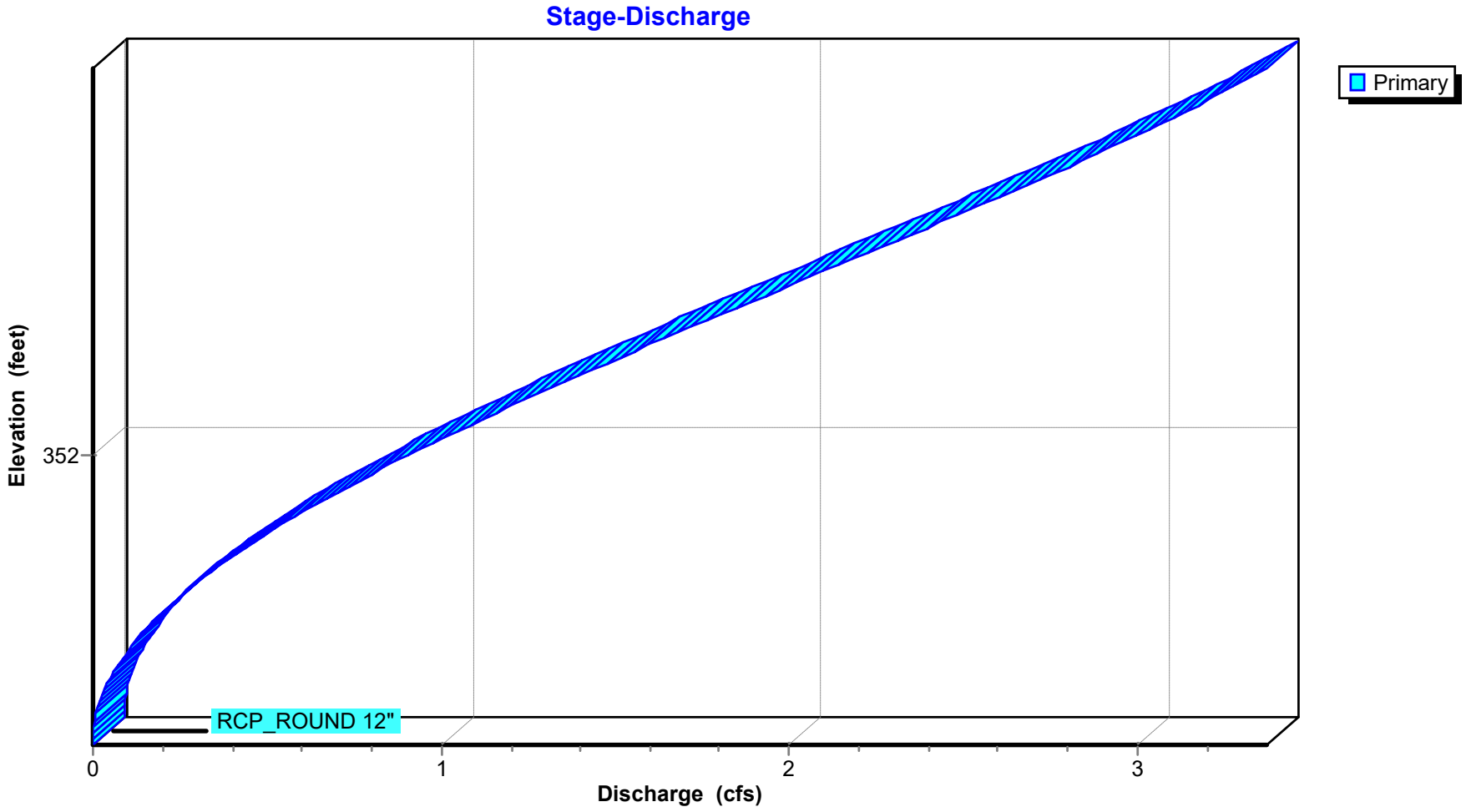
Pond CI-C4: CURB INLET C4

Hydrograph



Pond CI-C4: CURB INLET C4

Stage-Discharge



Stage-Area-Storage for Pond CI-C4: CURB INLET C4

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
351.53	**0.000**	352.45	0.000
351.54	0.000	352.46	0.000
351.55	0.000	352.47	0.000
351.56	0.000	352.48	0.000
351.57	0.000	352.49	0.000
351.58	0.000	352.50	0.000
351.59	0.000	352.51	0.000
351.60	0.000	352.52	0.000
351.61	0.000	352.53	0.000
351.62	0.000	352.54	0.000
351.63	0.000	352.55	0.000
351.64	0.000	352.56	0.000
351.65	0.000	352.57	0.000
351.66	0.000	352.58	0.000
351.67	0.000	352.59	0.000
351.68	0.000	352.60	0.000
351.69	0.000	352.61	0.000
351.70	0.000	352.62	0.000
351.71	0.000	352.63	0.000
351.72	0.000		
351.73	0.000		
351.74	0.000		
351.75	0.000		
351.76	0.000		
351.77	0.000		
351.78	0.000		
351.79	0.000		
351.80	0.000		
351.81	0.000		
351.82	0.000		
351.83	0.000		
351.84	0.000		
351.85	0.000		
351.86	0.000		
351.87	0.000		
351.88	0.000		
351.89	0.000		
351.90	0.000		
351.91	0.000		
351.92	0.000		
351.93	0.000		
351.94	0.000		
351.95	0.000		
351.96	0.000		
351.97	0.000		
351.98	0.000		
351.99	0.000		
352.00	0.000		
352.01	0.000		
352.02	0.000		
352.03	0.000		
352.04	0.000		
352.05	0.000		
352.06	0.000		
352.07	0.000		
352.08	0.000		
352.09	0.000		
352.10	0.000		
352.11	0.000		
352.12	0.000		
352.13	0.000		
352.14	0.000		
352.15	0.000		
352.16	0.000		
352.17	0.000		
352.18	0.000		
352.19	0.000		
352.20	0.000		
352.21	0.000		
352.22	0.000		
352.23	0.000		
352.24	0.000		
352.25	0.000		
352.26	0.000		
352.27	0.000		
352.28	0.000		
352.29	0.000		
352.30	0.000		
352.31	0.000		
352.32	0.000		
352.33	0.000		
352.34	0.000		
352.35	0.000		
352.36	0.000		
352.37	0.000		
352.38	0.000		
352.39	0.000		
352.40	0.000		
352.41	0.000		
352.42	0.000		
352.43	0.000		
352.44	0.000		

Summary for Pond CI-C5: CURB INLET C5

Inflow Area = 1.429 ac, 0.00% Impervious, Inflow Depth = 1.23" for 100-yr event
Inflow = 4.84 cfs @ 0.15 hrs, Volume= 0.146 af
Outflow = 4.84 cfs @ 0.10 hrs, Volume= 0.146 af, Atten= 0%, Lag= 0.0 min
Primary = 4.84 cfs @ 0.10 hrs, Volume= 0.146 af
Routed to Link POST-DEV : Post-Development

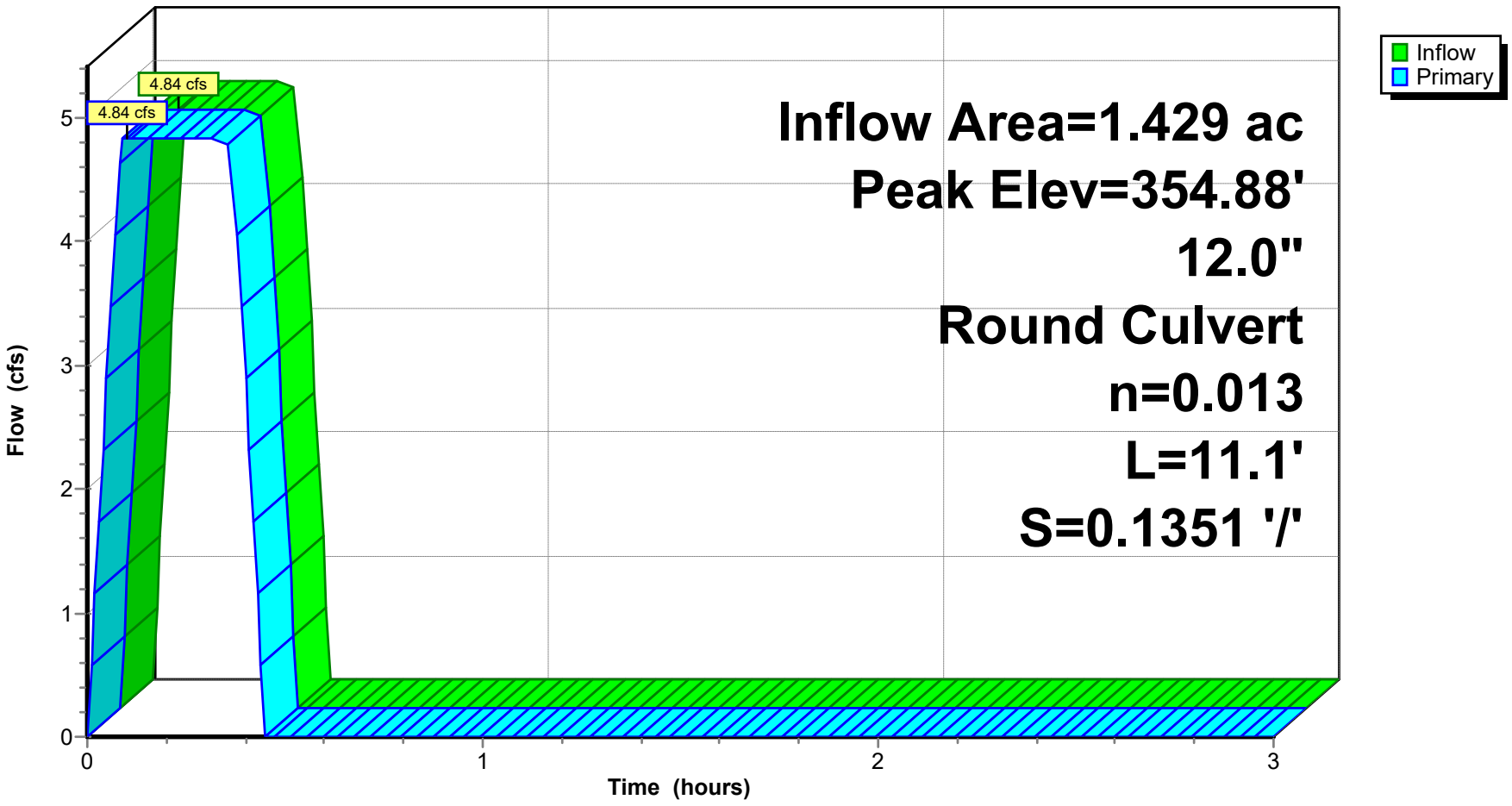
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 354.88' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	353.50'	**12.0" Round RCP_ROUND 12"** L= 11.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 353.50' / 352.00' S= 0.1351 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf

Primary OutFlow Max=4.84 cfs @ 0.10 hrs HW=354.88' (Free Discharge)
↑—**1=RCP_ROUND 12"** (Inlet Controls 4.84 cfs @ 6.16 fps)

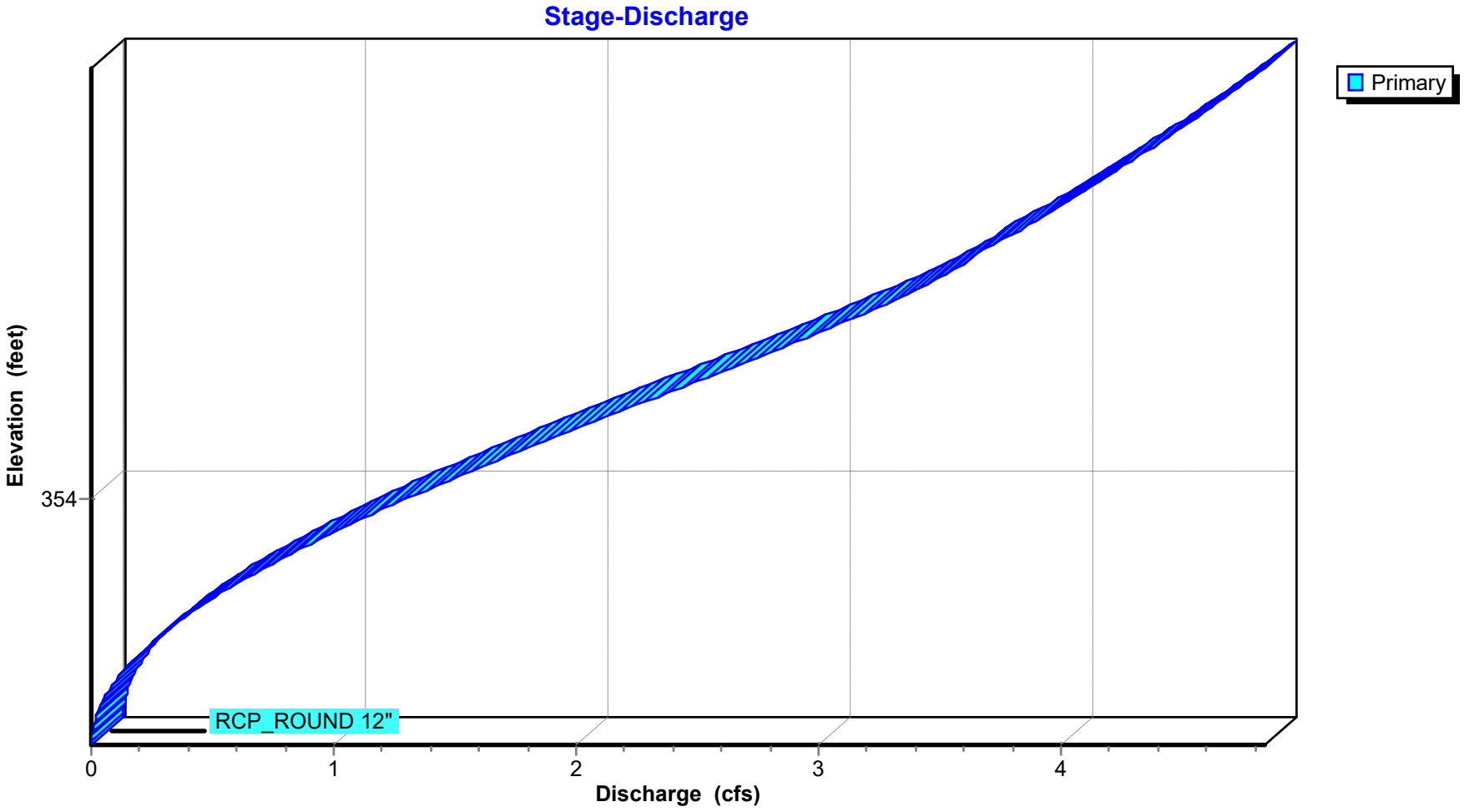
Pond CI-C5: CURB INLET C5

Hydrograph



Pond CI-C5: CURB INLET C5

Stage-Discharge



Stage-Area-Storage for Pond CI-C5: CURB INLET C5

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
353.50	**0.000**	354.42	0.000
353.51	0.000	354.43	0.000
353.52	0.000	354.44	0.000
353.53	0.000	354.45	0.000
353.54	0.000	354.46	0.000
353.55	0.000	354.47	0.000
353.56	0.000	354.48	0.000
353.57	0.000	354.49	0.000
353.58	0.000	354.50	0.000
353.59	0.000	354.51	0.000
353.60	0.000	354.52	0.000
353.61	0.000	354.53	0.000
353.62	0.000	354.54	0.000
353.63	0.000	354.55	0.000
353.64	0.000	354.56	0.000
353.65	0.000	354.57	0.000
353.66	0.000	354.58	0.000
353.67	0.000	354.59	0.000
353.68	0.000	354.60	0.000
353.69	0.000	354.61	0.000
353.70	0.000	354.62	0.000
353.71	0.000	354.63	0.000
353.72	0.000	354.64	0.000
353.73	0.000	354.65	0.000
353.74	0.000	354.66	0.000
353.75	0.000	354.67	0.000
353.76	0.000	354.68	0.000
353.77	0.000	354.69	0.000
353.78	0.000	354.70	0.000
353.79	0.000	354.71	0.000
353.80	0.000	354.72	0.000
353.81	0.000	354.73	0.000
353.82	0.000	354.74	0.000
353.83	0.000	354.75	0.000
353.84	0.000	354.76	0.000
353.85	0.000	354.77	0.000
353.86	0.000	354.78	0.000
353.87	0.000	354.79	0.000
353.88	0.000	354.80	0.000
353.89	0.000	354.81	0.000
353.90	0.000	354.82	0.000
353.91	0.000	354.83	0.000
353.92	0.000	354.84	0.000
353.93	0.000	354.85	0.000
353.94	0.000	354.86	0.000
353.95	0.000	354.87	0.000
353.96	0.000	354.88	0.000
353.97	0.000		
353.98	0.000		
353.99	0.000		
354.00	0.000		
354.01	0.000		
354.02	0.000		
354.03	0.000		
354.04	0.000		
354.05	0.000		
354.06	0.000		
354.07	0.000		
354.08	0.000		
354.09	0.000		
354.10	0.000		
354.11	0.000		
354.12	0.000		
354.13	0.000		
354.14	0.000		
354.15	0.000		
354.16	0.000		
354.17	0.000		
354.18	0.000		
354.19	0.000		
354.20	0.000		
354.21	0.000		
354.22	0.000		
354.23	0.000		
354.24	0.000		
354.25	0.000		
354.26	0.000		
354.27	0.000		
354.28	0.000		
354.29	0.000		
354.30	0.000		
354.31	0.000		
354.32	0.000		
354.33	0.000		
354.34	0.000		
354.35	0.000		
354.36	0.000		
354.37	0.000		
354.38	0.000		
354.39	0.000		
354.40	0.000		
354.41	0.000		

Summary for Pond CI-D1: CURB INLET D1

Inflow Area = 0.627 ac, 0.00% Impervious, Inflow Depth = 1.22" for 100-yr event
Inflow = 2.11 cfs @ 0.09 hrs, Volume= 0.064 af
Outflow = 2.11 cfs @ 0.09 hrs, Volume= 0.064 af, Atten= 0%, Lag= 0.0 min
Primary = 2.11 cfs @ 0.09 hrs, Volume= 0.064 af
Routed to Pond CI-C4 : CURB INLET C4

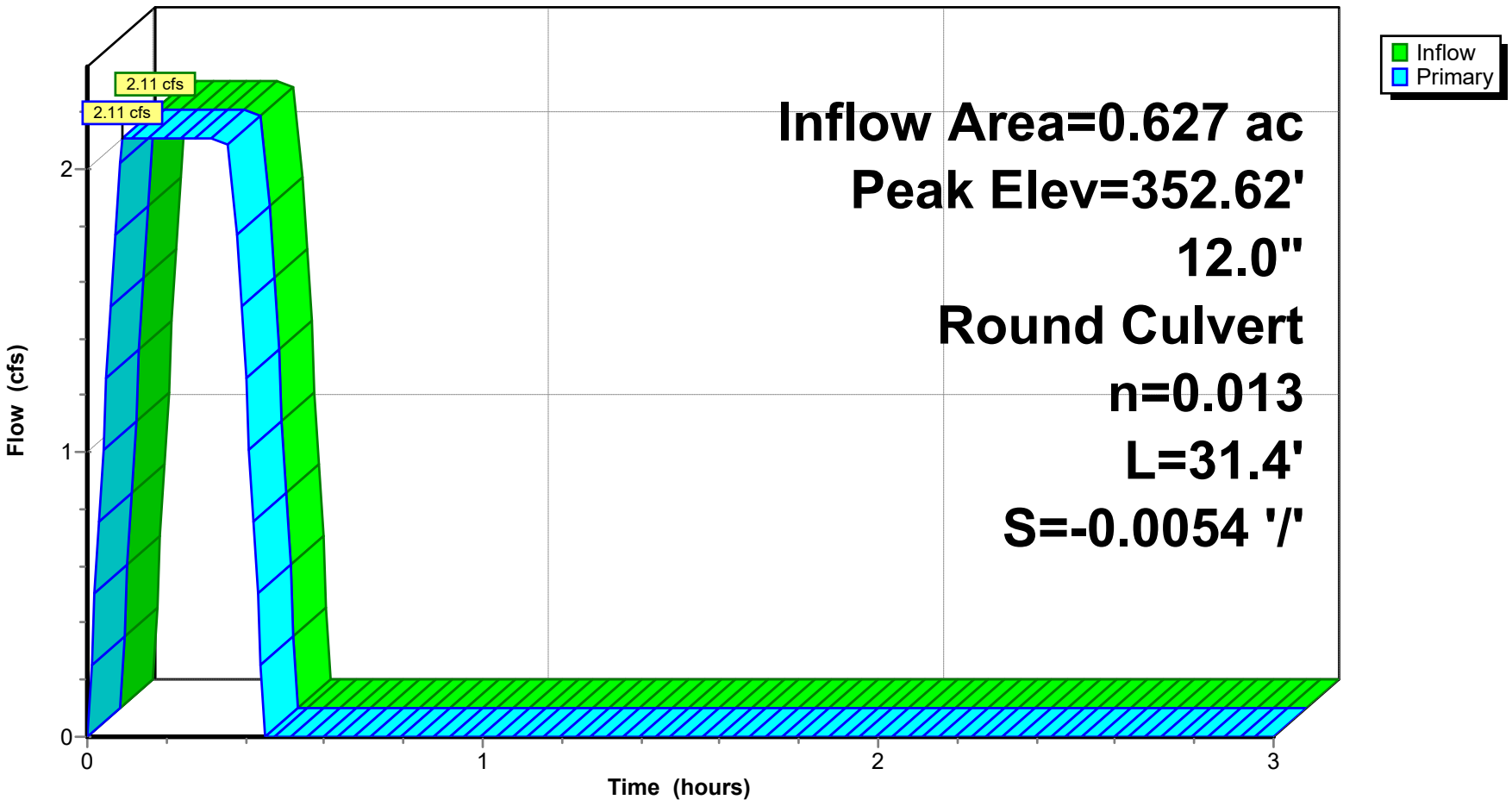
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 352.62' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	351.70'	**12.0" Round RCP_ROUND 12"** L= 31.4' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 351.53' / 351.70' S= -0.0054 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf

Primary OutFlow Max=2.11 cfs @ 0.09 hrs HW=352.62' (Free Discharge)
1=RCP_ROUND 12" (Barrel Controls 2.11 cfs @ 3.07 fps)

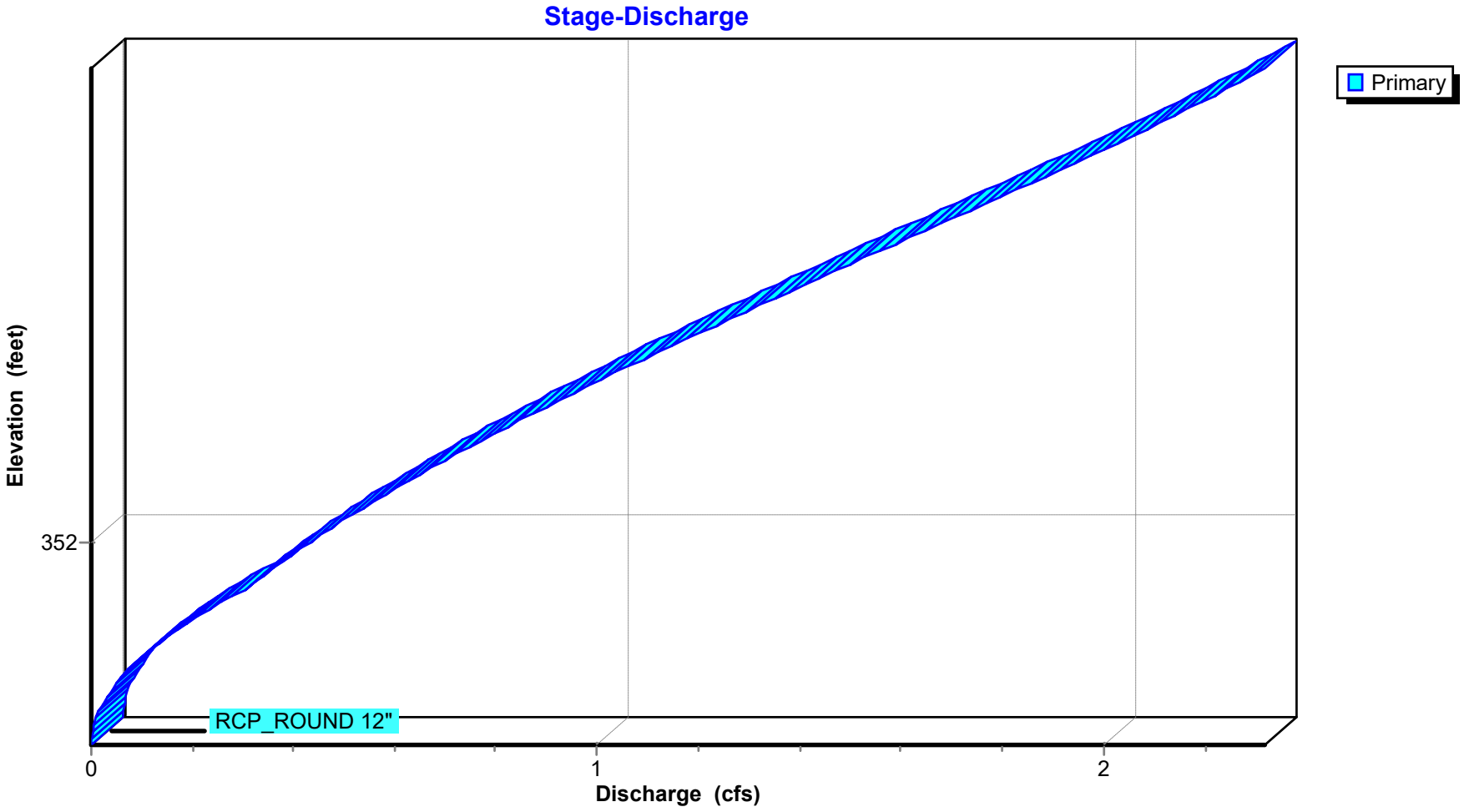
Pond CI-D1: CURB INLET D1

Hydrograph



Pond CI-D1: CURB INLET D1

Stage-Discharge



Stage-Area-Storage for Pond CI-D1: CURB INLET D1

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
351.70	**0.000**	352.62	0.000
351.71	0.000	352.63	0.000
351.72	0.000	352.64	0.000
351.73	0.000	352.65	0.000
351.74	0.000	352.66	0.000
351.75	0.000	352.67	0.000
351.76	0.000	352.68	0.000
351.77	0.000	352.69	0.000
351.78	0.000	352.70	0.000
351.79	0.000		
351.80	0.000		
351.81	0.000		
351.82	0.000		
351.83	0.000		
351.84	0.000		
351.85	0.000		
351.86	0.000		
351.87	0.000		
351.88	0.000		
351.89	0.000		
351.90	0.000		
351.91	0.000		
351.92	0.000		
351.93	0.000		
351.94	0.000		
351.95	0.000		
351.96	0.000		
351.97	0.000		
351.98	0.000		
351.99	0.000		
352.00	0.000		
352.01	0.000		
352.02	0.000		
352.03	0.000		
352.04	0.000		
352.05	0.000		
352.06	0.000		
352.07	0.000		
352.08	0.000		
352.09	0.000		
352.10	0.000		
352.11	0.000		
352.12	0.000		
352.13	0.000		
352.14	0.000		
352.15	0.000		
352.16	0.000		
352.17	0.000		
352.18	0.000		
352.19	0.000		
352.20	0.000		
352.21	0.000		
352.22	0.000		
352.23	0.000		
352.24	0.000		
352.25	0.000		
352.26	0.000		
352.27	0.000		
352.28	0.000		
352.29	0.000		
352.30	0.000		
352.31	0.000		
352.32	0.000		
352.33	0.000		
352.34	0.000		
352.35	0.000		
352.36	0.000		
352.37	0.000		
352.38	0.000		
352.39	0.000		
352.40	0.000		
352.41	0.000		
352.42	0.000		
352.43	0.000		
352.44	0.000		
352.45	0.000		
352.46	0.000		
352.47	0.000		
352.48	0.000		
352.49	0.000		
352.50	0.000		
352.51	0.000		
352.52	0.000		
352.53	0.000		
352.54	0.000		
352.55	0.000		
352.56	0.000		
352.57	0.000		
352.58	0.000		
352.59	0.000		
352.60	0.000		
352.61	0.000		

Summary for Pond JB-C3: JUNCTION BOX C3

Inflow Area = 0.247 ac, 0.00% Impervious, Inflow Depth = 1.26" for 100-yr event
Inflow = 0.86 cfs @ 0.15 hrs, Volume= 0.026 af
Outflow = 0.86 cfs @ 0.15 hrs, Volume= 0.026 af, Atten= 0%, Lag= 0.0 min
Primary = 0.86 cfs @ 0.15 hrs, Volume= 0.026 af
Routed to Pond CI-C4 : CURB INLET C4

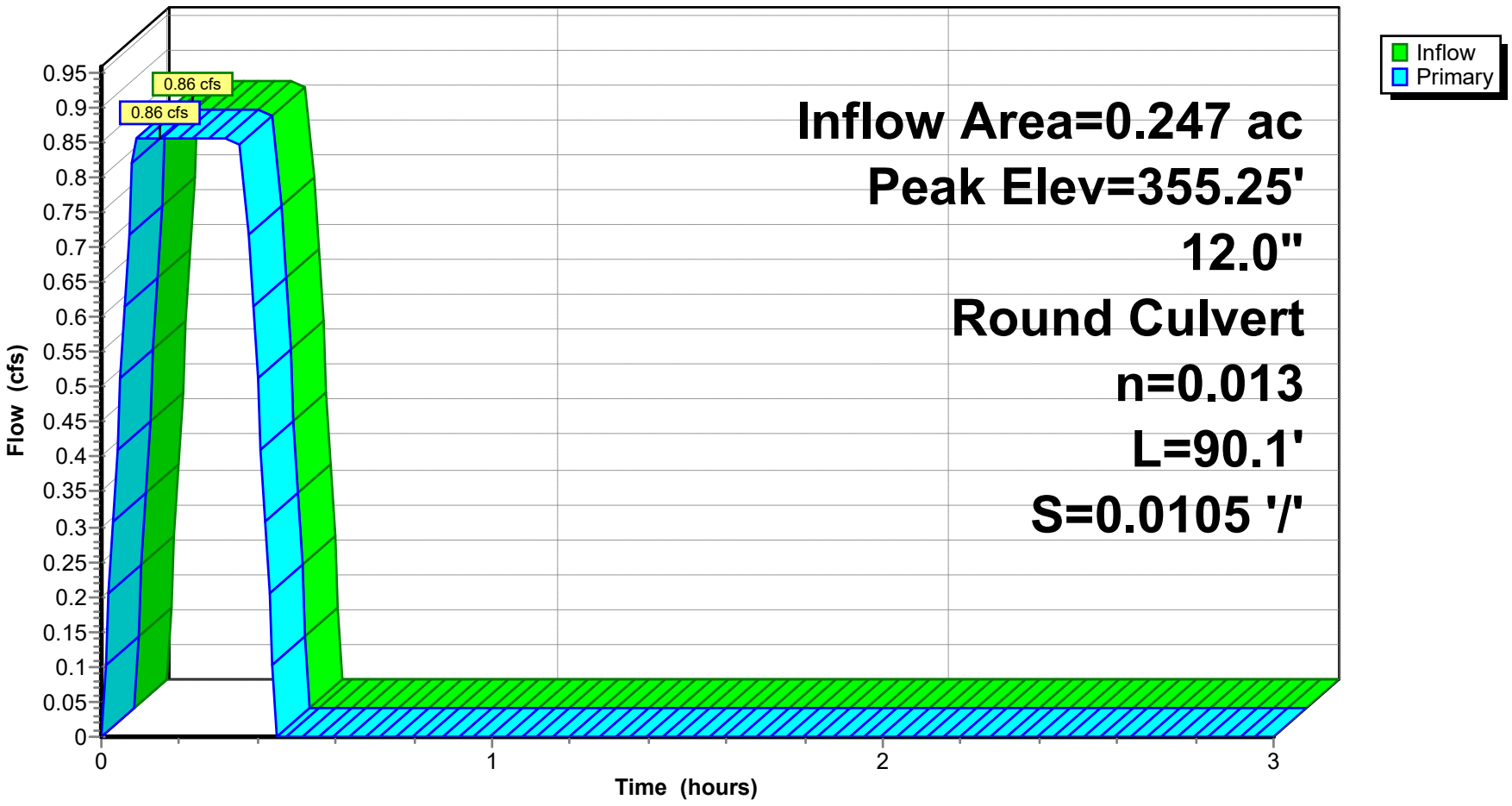
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 355.25' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	354.80'	**12.0" Round RCP_ROUND 12"** L= 90.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 354.80' / 353.85' S= 0.0105 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf

Primary OutFlow Max=0.86 cfs @ 0.15 hrs HW=355.25' (Free Discharge)
1=RCP_ROUND 12" (Barrel Controls 0.86 cfs @ 3.63 fps)

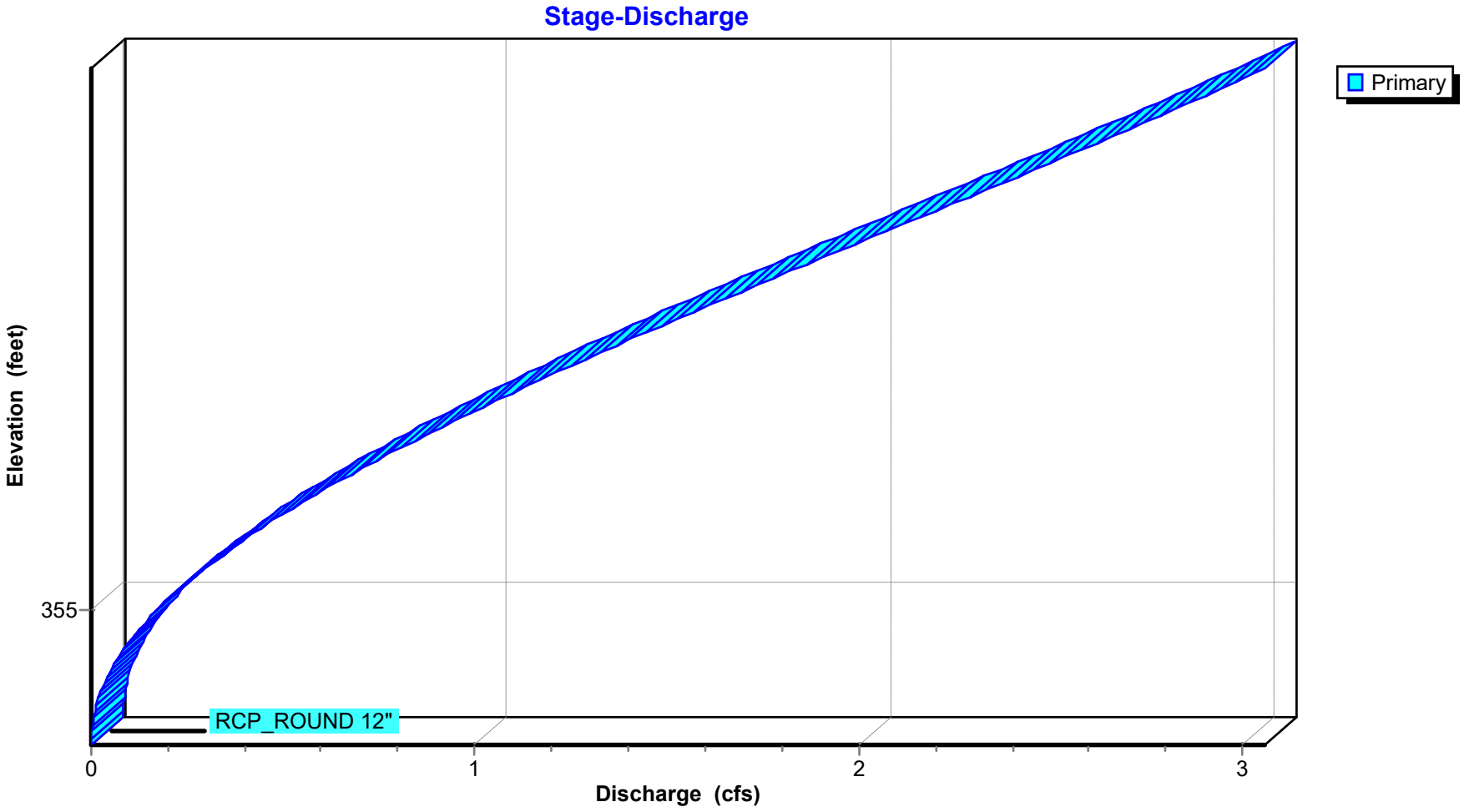
Pond JB-C3: JUNCTION BOX C3

Hydrograph



Pond JB-C3: JUNCTION BOX C3

Stage-Discharge



Stage-Area-Storage for Pond JB-C3: JUNCTION BOX C3

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
354.80	**0.000**	355.72	0.000
354.81	0.000	355.73	0.000
354.82	0.000	355.74	0.000
354.83	0.000	355.75	0.000
354.84	0.000	355.76	0.000
354.85	0.000	355.77	0.000
354.86	0.000	355.78	0.000
354.87	0.000	355.79	0.000
354.88	0.000	355.80	0.000
354.89	0.000		
354.90	0.000		
354.91	0.000		
354.92	0.000		
354.93	0.000		
354.94	0.000		
354.95	0.000		
354.96	0.000		
354.97	0.000		
354.98	0.000		
354.99	0.000		
355.00	0.000		
355.01	0.000		
355.02	0.000		
355.03	0.000		
355.04	0.000		
355.05	0.000		
355.06	0.000		
355.07	0.000		
355.08	0.000		
355.09	0.000		
355.10	0.000		
355.11	0.000		
355.12	0.000		
355.13	0.000		
355.14	0.000		
355.15	0.000		
355.16	0.000		
355.17	0.000		
355.18	0.000		
355.19	0.000		
355.20	0.000		
355.21	0.000		
355.22	0.000		
355.23	0.000		
355.24	0.000		
355.25	0.000		
355.26	0.000		
355.27	0.000		
355.28	0.000		
355.29	0.000		
355.30	0.000		
355.31	0.000		
355.32	0.000		
355.33	0.000		
355.34	0.000		
355.35	0.000		
355.36	0.000		
355.37	0.000		
355.38	0.000		
355.39	0.000		
355.40	0.000		
355.41	0.000		
355.42	0.000		
355.43	0.000		
355.44	0.000		
355.45	0.000		
355.46	0.000		
355.47	0.000		
355.48	0.000		
355.49	0.000		
355.50	0.000		
355.51	0.000		
355.52	0.000		
355.53	0.000		
355.54	0.000		
355.55	0.000		
355.56	0.000		
355.57	0.000		
355.58	0.000		
355.59	0.000		
355.60	0.000		
355.61	0.000		
355.62	0.000		
355.63	0.000		
355.64	0.000		
355.65	0.000		
355.66	0.000		
355.67	0.000		
355.68	0.000		
355.69	0.000		
355.70	0.000		
355.71	0.000		

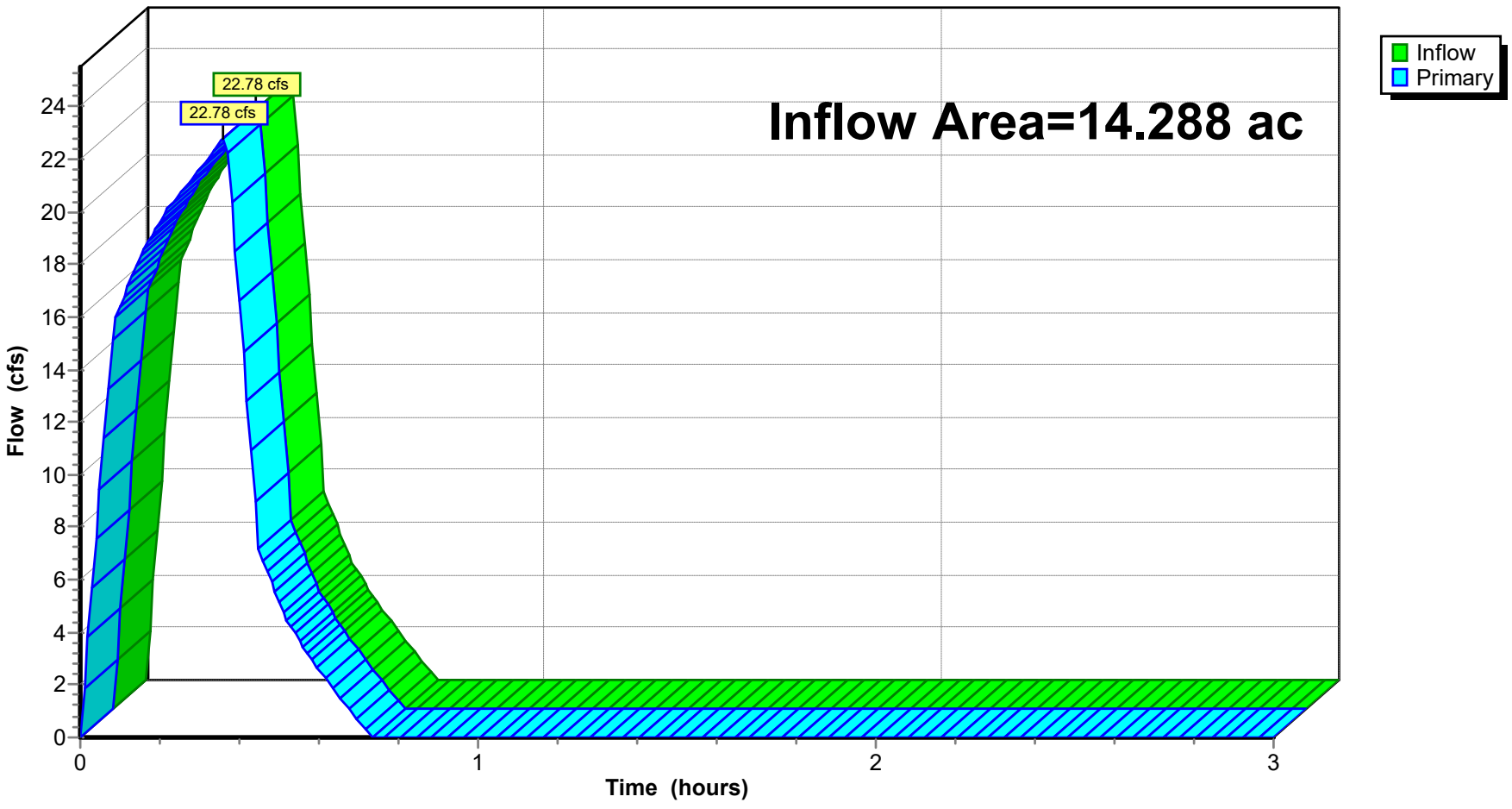
Summary for Link POST-DEV: Post-Development

Inflow Area = 14.288 ac, 0.00% Impervious, Inflow Depth = 0.58" for 100-yr event
Inflow = 22.78 cfs @ 0.36 hrs, Volume= 0.693 af
Primary = 22.78 cfs @ 0.36 hrs, Volume= 0.693 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Link POST-DEV: Post-Development

Hydrograph



STROM SEWER SIZING

Inlet Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Thursday, Sep 26 2024

CI-A1 (25 YEAR)

Curb Inlet

Location	= On grade
Curb Length (ft)	= 4.00
Throat Height (in)	= 2.00
Grate Area (sqft)	= -0-
Grate Width (ft)	= -0-
Grate Length (ft)	= -0-

Gutter

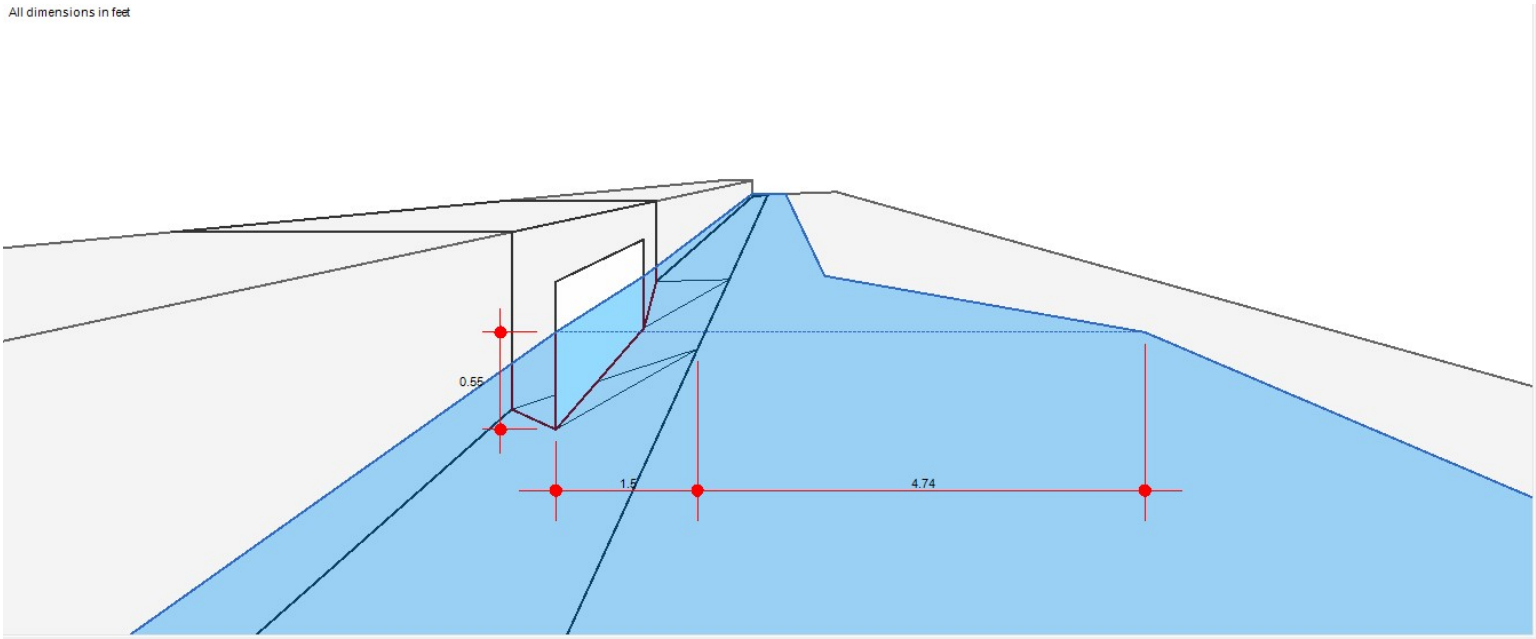
Slope, Sw (ft/ft)	= 0.080
Slope, Sx (ft/ft)	= 0.020
Local Depr (in)	= 4.00
Gutter Width (ft)	= 1.50
Gutter Slope (%)	= 3.00
Gutter n-value	= 0.015

Calculations

Compute by:	Known Q
Q (cfs)	= 1.79

Highlighted

Q Total (cfs)	= 1.79
Q Capt (cfs)	= 1.21
Q Bypass (cfs)	= 0.58
Depth at Inlet (in)	= 6.58
Efficiency (%)	= 68
Gutter Spread (ft)	= 6.24
Gutter Vel (ft/s)	= 3.92
Bypass Spread (ft)	= 3.19
Bypass Depth (in)	= 1.84



Inlet Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Wednesday, Oct 2 2024

CI-A2 (25 YEAR)

Curb Inlet

Location	= On grade
Curb Length (ft)	= 4.00
Throat Height (in)	= 2.00
Grate Area (sqft)	= -0-
Grate Width (ft)	= -0-
Grate Length (ft)	= -0-

Gutter

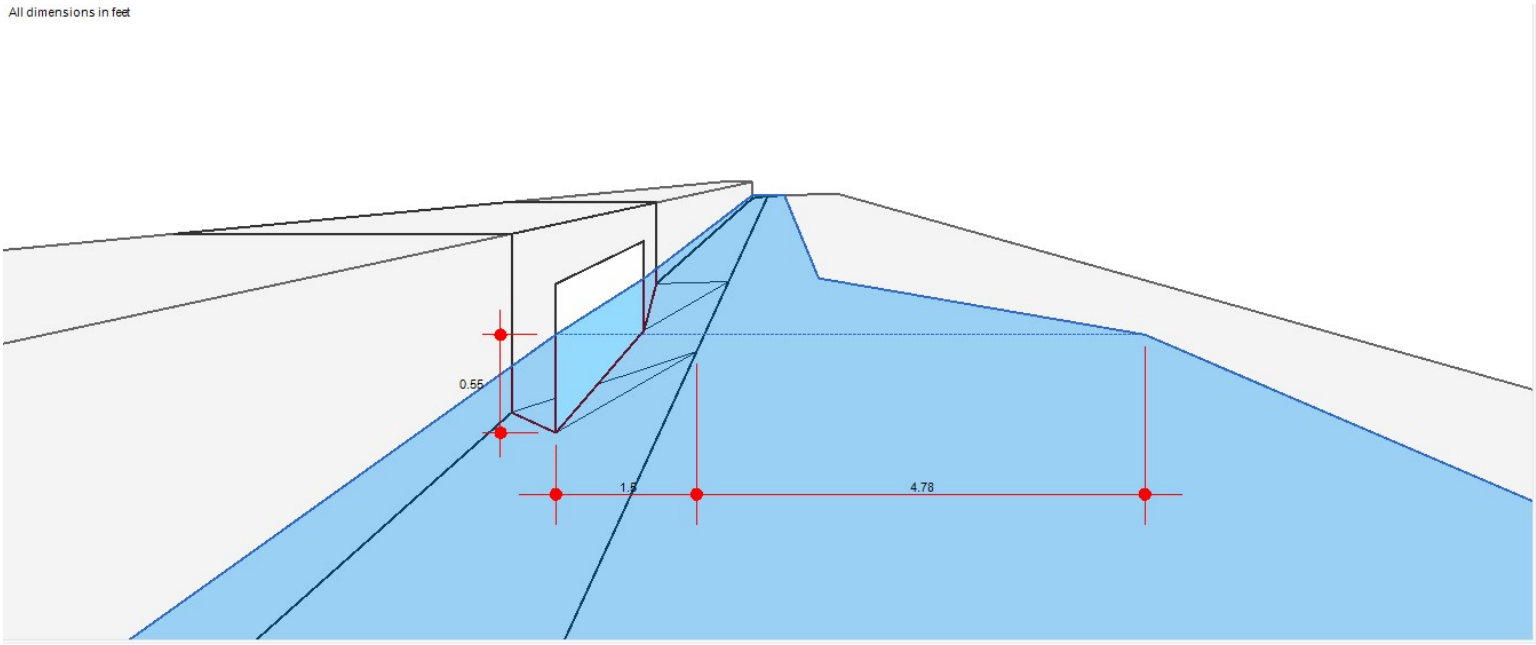
Slope, Sw (ft/ft)	= 0.080
Slope, Sx (ft/ft)	= 0.020
Local Depr (in)	= 4.00
Gutter Width (ft)	= 1.50
Gutter Slope (%)	= 2.80
Gutter n-value	= 0.015

Calculations

Compute by:	Known Q
Q (cfs)	= 1.75

Highlighted

Q Total (cfs)	= 1.75
Q Capt (cfs)	= 1.21
Q Bypass (cfs)	= 0.54
Depth at Inlet (in)	= 6.59
Efficiency (%)	= 69
Gutter Spread (ft)	= 6.28
Gutter Vel (ft/s)	= 3.79
Bypass Spread (ft)	= 3.10
Bypass Depth (in)	= 1.82



Inlet Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Wednesday, Oct 2 2024

CI-A3 (25 YEAR)

Curb Inlet

Location	= On grade
Curb Length (ft)	= 4.00
Throat Height (in)	= 2.00
Grate Area (sqft)	= -0-
Grate Width (ft)	= -0-
Grate Length (ft)	= -0-

Gutter

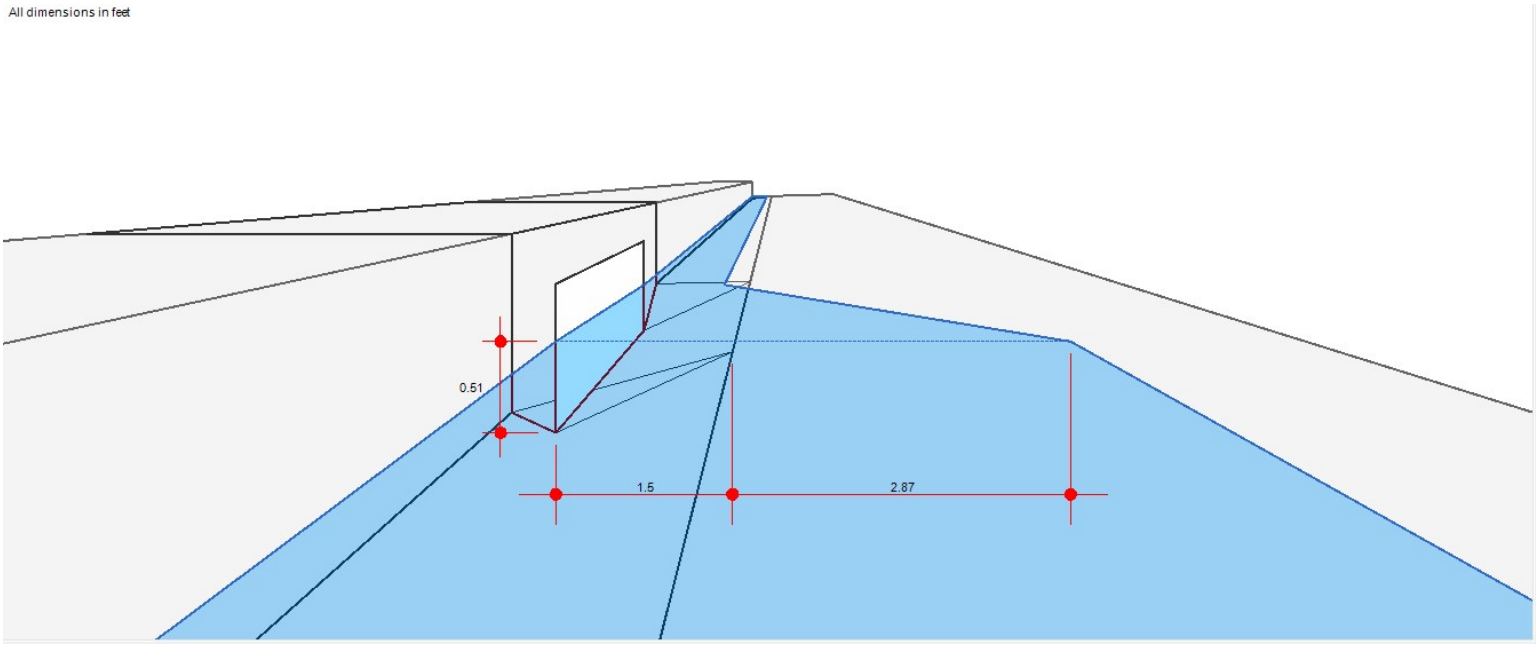
Slope, Sw (ft/ft)	= 0.080
Slope, Sx (ft/ft)	= 0.020
Local Depr (in)	= 4.00
Gutter Width (ft)	= 1.50
Gutter Slope (%)	= 3.40
Gutter n-value	= 0.015

Calculations

Compute by:	Known Q
Q (cfs)	= 0.98

Highlighted

Q Total (cfs)	= 0.98
Q Capt (cfs)	= 0.84
Q Bypass (cfs)	= 0.14
Depth at Inlet (in)	= 6.13
Efficiency (%)	= 85
Gutter Spread (ft)	= 4.37
Gutter Vel (ft/s)	= 3.79
Bypass Spread (ft)	= 1.14
Bypass Depth (in)	= 1.09



Inlet Report

CI-A4

Curb Inlet

Location	= On grade
Curb Length (ft)	= 4.00
Throat Height (in)	= 2.00
Grate Area (sqft)	= -0-
Grate Width (ft)	= -0-
Grate Length (ft)	= -0-

Gutter

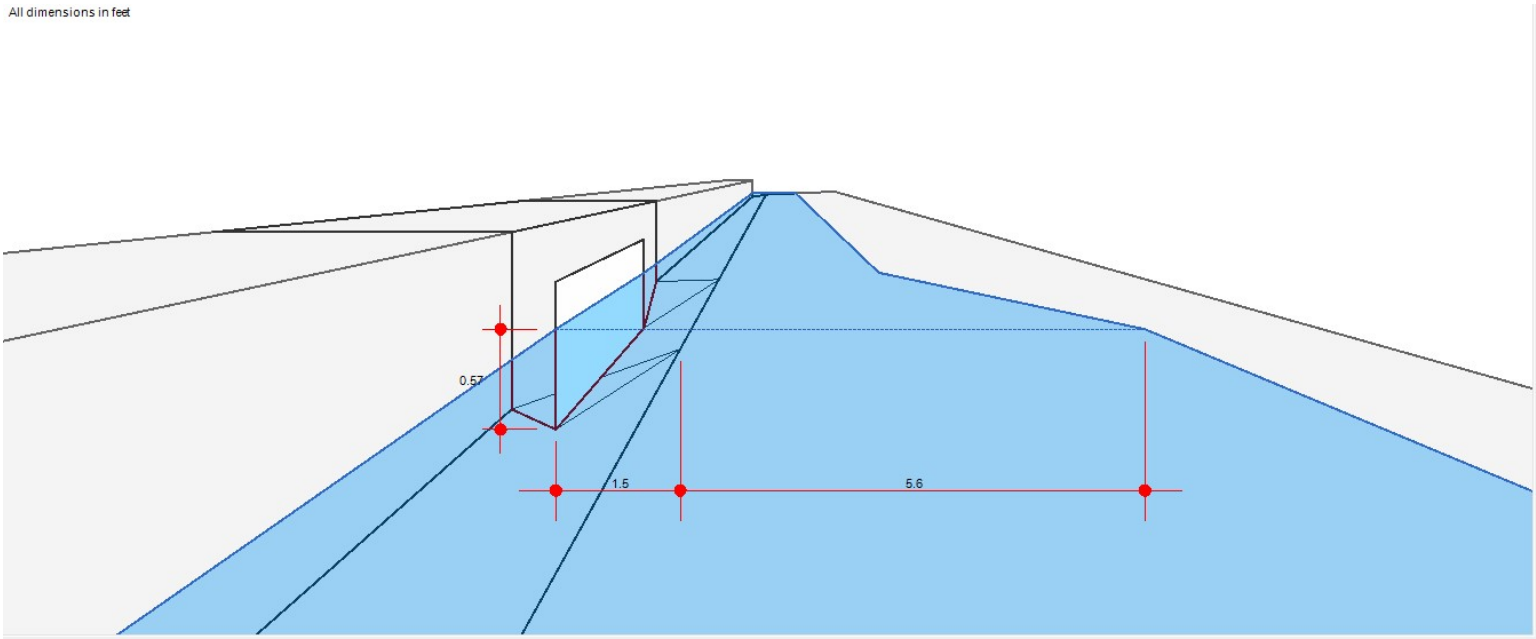
Slope, Sw (ft/ft)	= 0.080
Slope, Sx (ft/ft)	= 0.020
Local Depr (in)	= 4.00
Gutter Width (ft)	= 1.50
Gutter Slope (%)	= 3.60
Gutter n-value	= 0.015

Calculations

Compute by:	Known Q
Q (cfs)	= 2.57

Highlighted

Q Total (cfs)	= 2.57
Q Capt (cfs)	= 1.42
Q Bypass (cfs)	= 1.15
Depth at Inlet (in)	= 6.78
Efficiency (%)	= 55
Gutter Spread (ft)	= 7.10
Gutter Vel (ft/s)	= 4.50
Bypass Spread (ft)	= 4.72
Bypass Depth (in)	= 2.21



Inlet Report

CI-A5

Curb Inlet

Location	= On grade
Curb Length (ft)	= 4.00
Throat Height (in)	= 2.00
Grate Area (sqft)	= -0-
Grate Width (ft)	= -0-
Grate Length (ft)	= -0-

Gutter

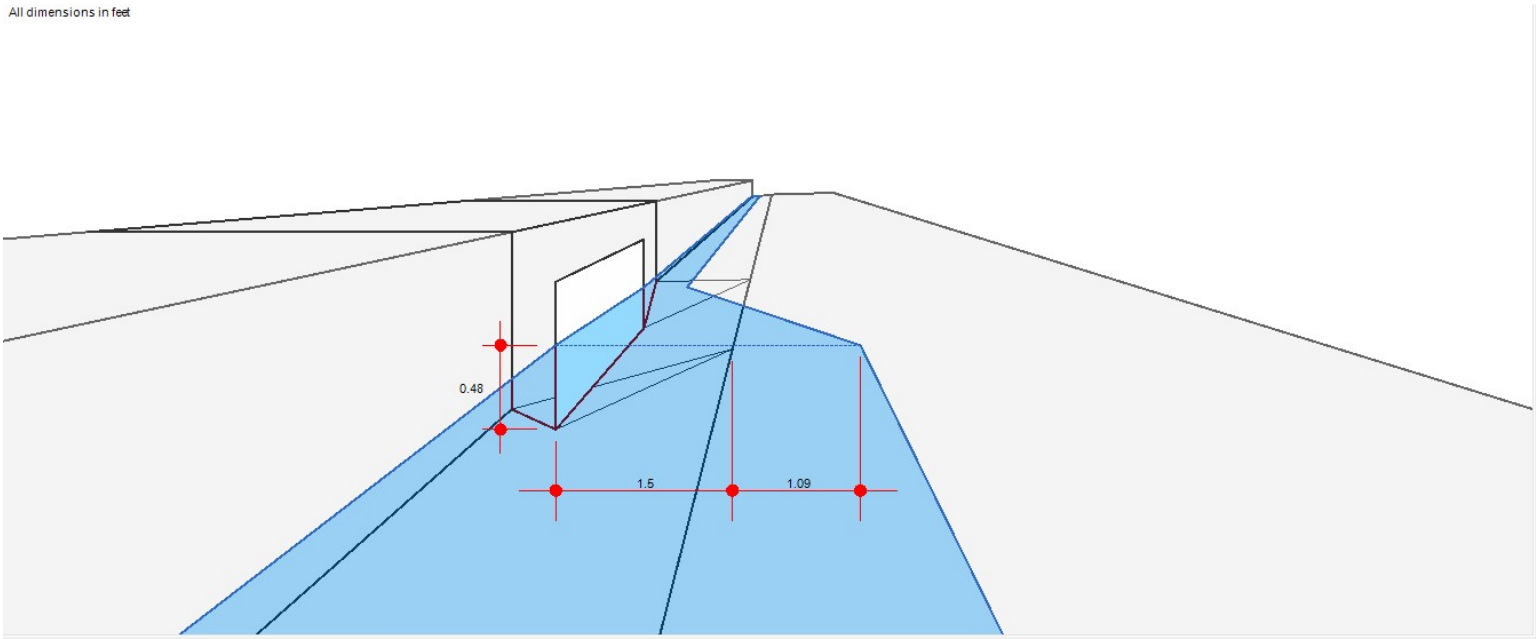
Slope, Sw (ft/ft)	= 0.080
Slope, Sx (ft/ft)	= 0.020
Local Depr (in)	= 4.00
Gutter Width (ft)	= 1.50
Gutter Slope (%)	= 5.00
Gutter n-value	= 0.015

Calculations

Compute by:	Known Q
Q (cfs)	= 0.58

Highlighted

Q Total (cfs)	= 0.58
Q Capt (cfs)	= 0.55
Q Bypass (cfs)	= 0.03
Depth at Inlet (in)	= 5.70
Efficiency (%)	= 94
Gutter Spread (ft)	= 2.59
Gutter Vel (ft/s)	= 4.32
Bypass Spread (ft)	= 0.61
Bypass Depth (in)	= 0.58



Inlet Report

AI-B1 (25 YEAR)

Drop Grate Inlet

Location	= Sag
Curb Length (ft)	= -0-
Throat Height (in)	= -0-
Grate Area (sqft)	= 1.00
Grate Width (ft)	= 1.00
Grate Length (ft)	= 1.00

Gutter

Slope, Sw (ft/ft)	= 0.020
Slope, Sx (ft/ft)	= 0.020
Local Depr (in)	= -0-
Gutter Width (ft)	= 1.40
Gutter Slope (%)	= -0-
Gutter n-value	= -0-

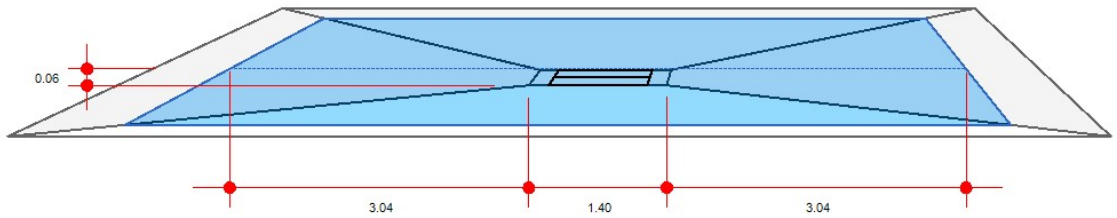
Calculations

Compute by:	Known Q
Q (cfs)	= 0.18

Highlighted

Q Total (cfs)	= 0.18
Q Capt (cfs)	= 0.18
Q Bypass (cfs)	= -0-
Depth at Inlet (in)	= 0.73
Efficiency (%)	= 100
Gutter Spread (ft)	= 7.47
Gutter Vel (ft/s)	= -0-
Bypass Spread (ft)	= -0-
Bypass Depth (in)	= -0-

All dimensions in feet



Inlet Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Wednesday, Oct 2 2024

AI-B2 (25 YEAR)

Drop Grate Inlet

Location	= Sag
Curb Length (ft)	= -0-
Throat Height (in)	= -0-
Grate Area (sqft)	= 1.00
Grate Width (ft)	= 1.00
Grate Length (ft)	= 1.00

Gutter

Slope, Sw (ft/ft)	= 0.020
Slope, Sx (ft/ft)	= 0.020
Local Depr (in)	= -0-
Gutter Width (ft)	= 1.40
Gutter Slope (%)	= -0-
Gutter n-value	= -0-

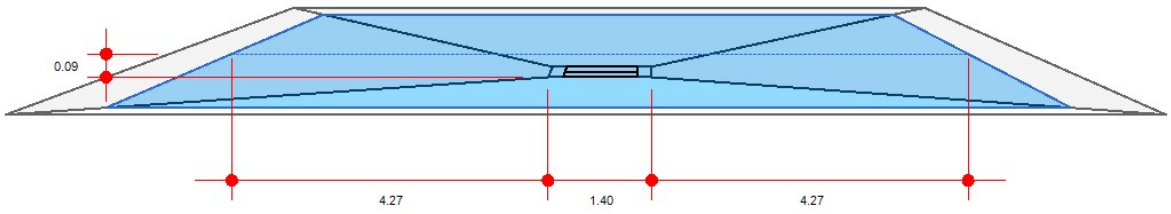
Calculations

Compute by:	Known Q
Q (cfs)	= 0.30

Highlighted

Q Total (cfs)	= 0.30
Q Capt (cfs)	= 0.30
Q Bypass (cfs)	= -0-
Depth at Inlet (in)	= 1.02
Efficiency (%)	= 100
Gutter Spread (ft)	= 9.94
Gutter Vel (ft/s)	= 3.79
Bypass Spread (ft)	= -0-
Bypass Depth (in)	= -0-

All dimensions in feet



Inlet Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Wednesday, Oct 2 2024

CI-C1 (25 YEAR)

Curb Inlet

Location	= On grade
Curb Length (ft)	= 4.00
Throat Height (in)	= 2.00
Grate Area (sqft)	= -0-
Grate Width (ft)	= -0-
Grate Length (ft)	= -0-

Gutter

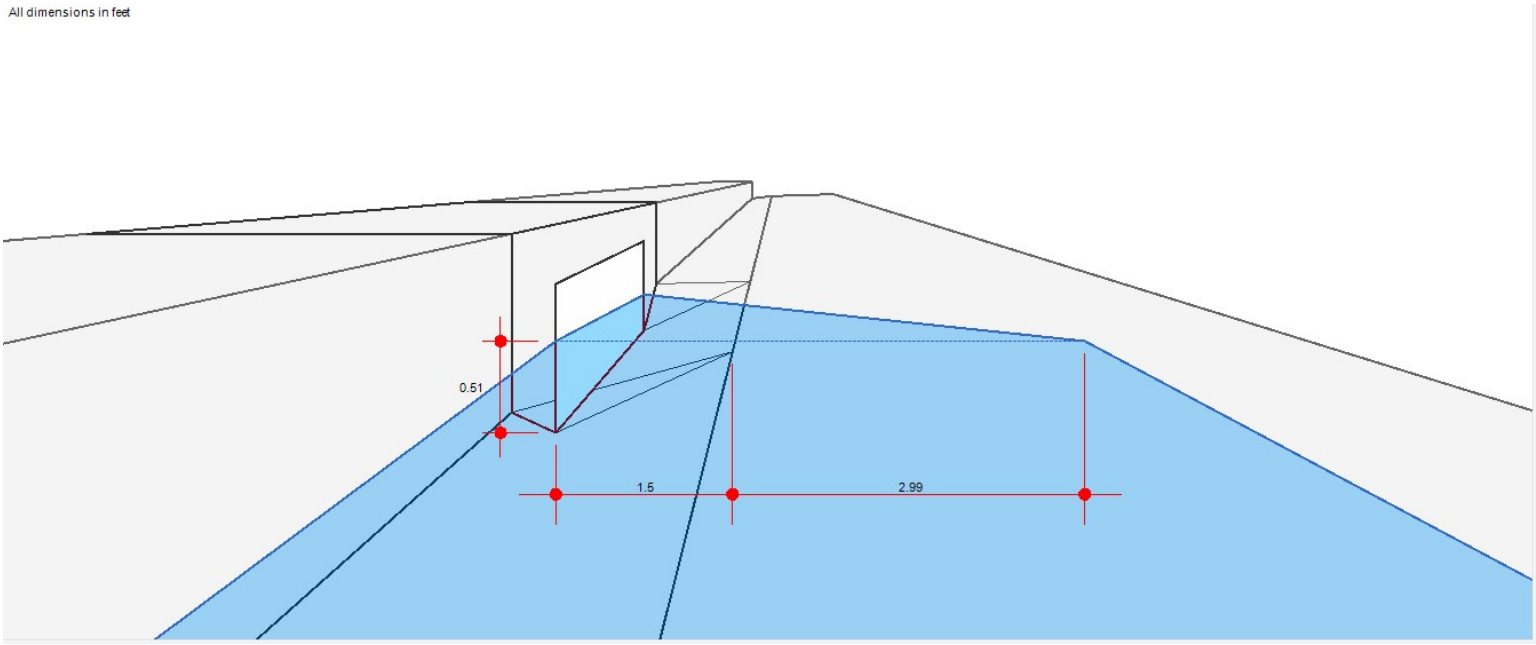
Slope, Sw (ft/ft)	= 0.080
Slope, Sx (ft/ft)	= 0.020
Local Depr (in)	= 4.00
Gutter Width (ft)	= 1.50
Gutter Slope (%)	= 1.20
Gutter n-value	= 0.015

Calculations

Compute by:	Known Q
Q (cfs)	= 0.61

Highlighted

Q Total (cfs)	= 0.61
Q Capt (cfs)	= 0.61
Q Bypass (cfs)	= -0-
Depth at Inlet (in)	= 6.16
Efficiency (%)	= 100
Gutter Spread (ft)	= 4.49
Gutter Vel (ft/s)	= 2.27
Bypass Spread (ft)	= -0-
Bypass Depth (in)	= -0-



Inlet Report

CI-C2 (25 YEAR)

Curb Inlet

Location	= On grade
Curb Length (ft)	= 4.00
Throat Height (in)	= 2.00
Grate Area (sqft)	= -0-
Grate Width (ft)	= -0-
Grate Length (ft)	= -0-

Gutter

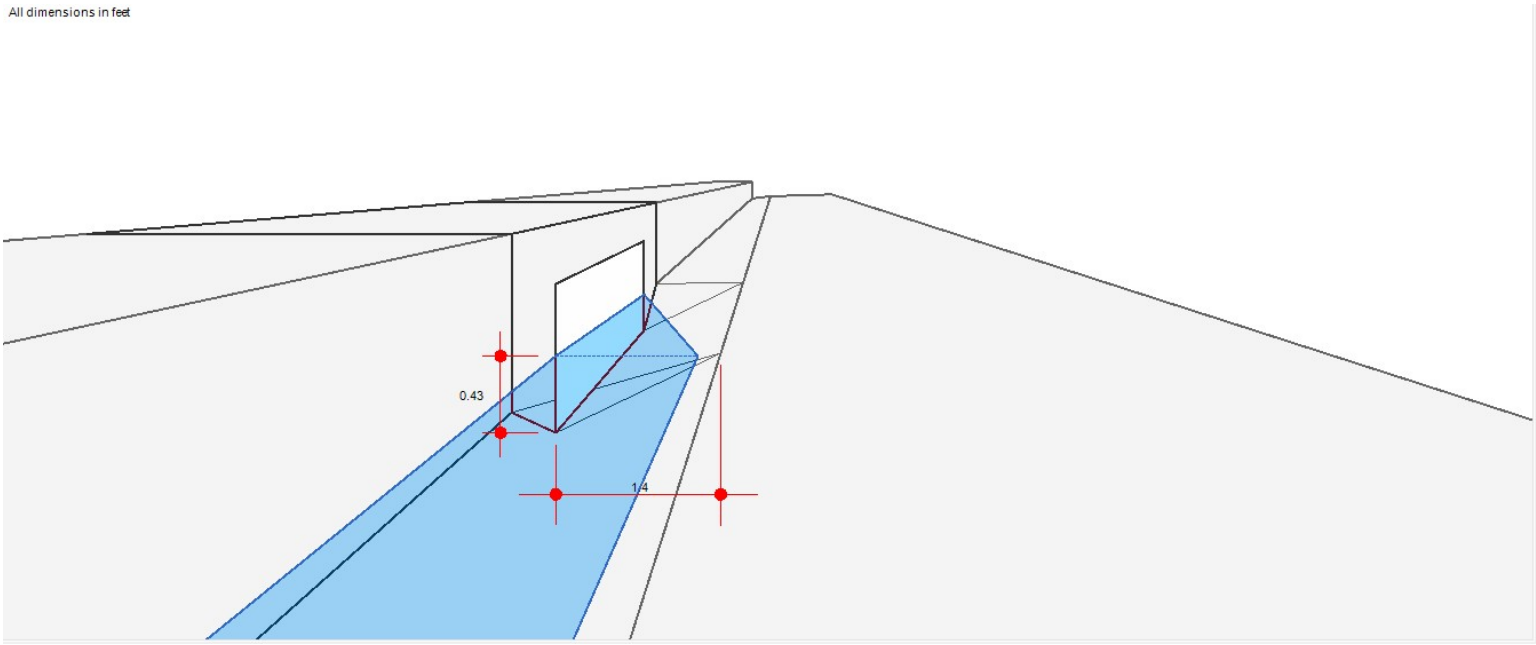
Slope, Sw (ft/ft)	= 0.080
Slope, Sx (ft/ft)	= 0.020
Local Depr (in)	= 4.00
Gutter Width (ft)	= 1.40
Gutter Slope (%)	= 1.20
Gutter n-value	= 0.015

Calculations

Compute by:	Known Q
Q (cfs)	= 0.10

Highlighted

Q Total (cfs)	= 0.10
Q Capt (cfs)	= 0.10
Q Bypass (cfs)	= -0-
Depth at Inlet (in)	= 5.16
Efficiency (%)	= 100
Gutter Spread (ft)	= 1.21
Gutter Vel (ft/s)	= 1.72
Bypass Spread (ft)	= -0-
Bypass Depth (in)	= -0-



Inlet Report

CI-C4 (25 YEAR)

Curb Inlet

Location	= On grade
Curb Length (ft)	= 4.00
Throat Height (in)	= 2.00
Grate Area (sqft)	= -0-
Grate Width (ft)	= -0-
Grate Length (ft)	= -0-

Gutter

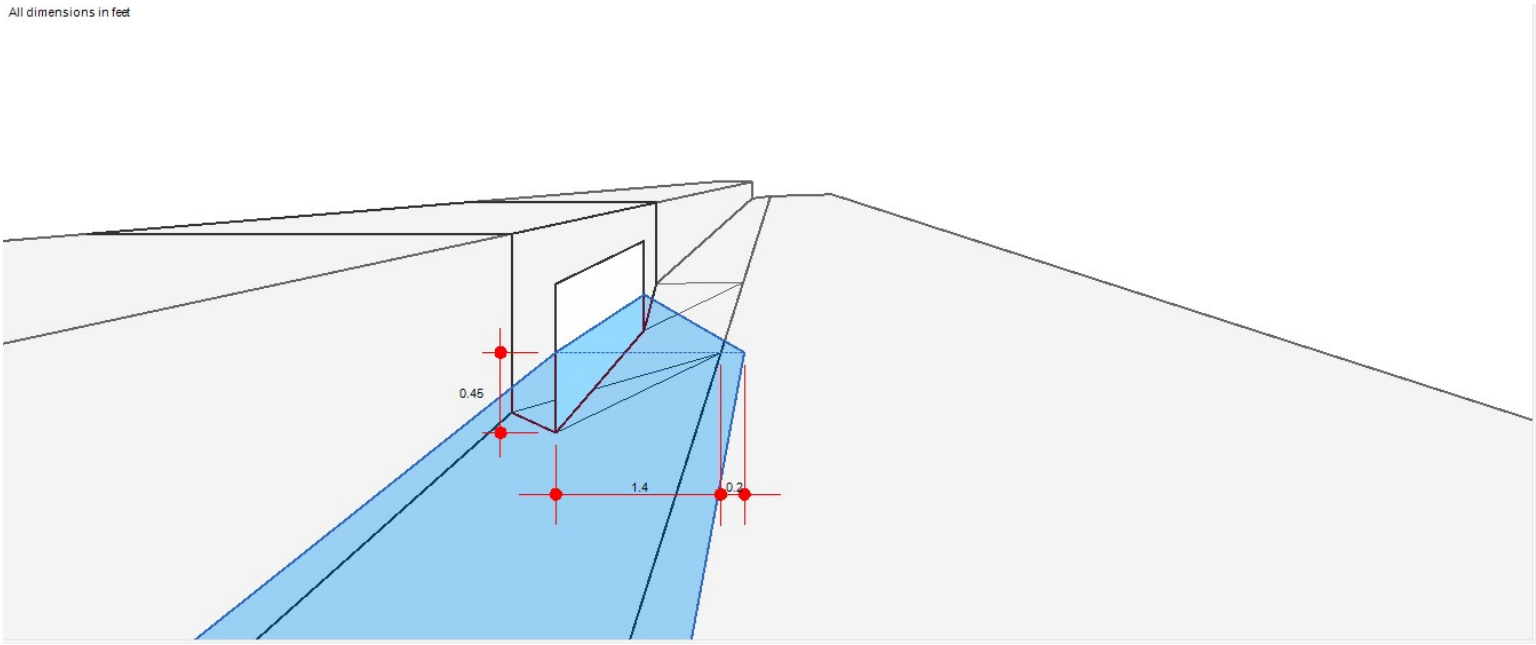
Slope, Sw (ft/ft)	= 0.080
Slope, Sx (ft/ft)	= 0.020
Local Depr (in)	= 4.00
Gutter Width (ft)	= 1.40
Gutter Slope (%)	= 4.90
Gutter n-value	= 0.015

Calculations

Compute by:	Known Q
Q (cfs)	= 0.33

Highlighted

Q Total (cfs)	= 0.33
Q Capt (cfs)	= 0.33
Q Bypass (cfs)	= -0-
Depth at Inlet (in)	= 5.39
Efficiency (%)	= 100
Gutter Spread (ft)	= 1.60
Gutter Vel (ft/s)	= 3.91
Bypass Spread (ft)	= -0-
Bypass Depth (in)	= -0-



Inlet Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Wednesday, Oct 2 2024

CI-C5 (25 YEAR)

Curb Inlet

Location	= On grade
Curb Length (ft)	= 4.00
Throat Height (in)	= 2.00
Grate Area (sqft)	= -0-
Grate Width (ft)	= -0-
Grate Length (ft)	= -0-

Gutter

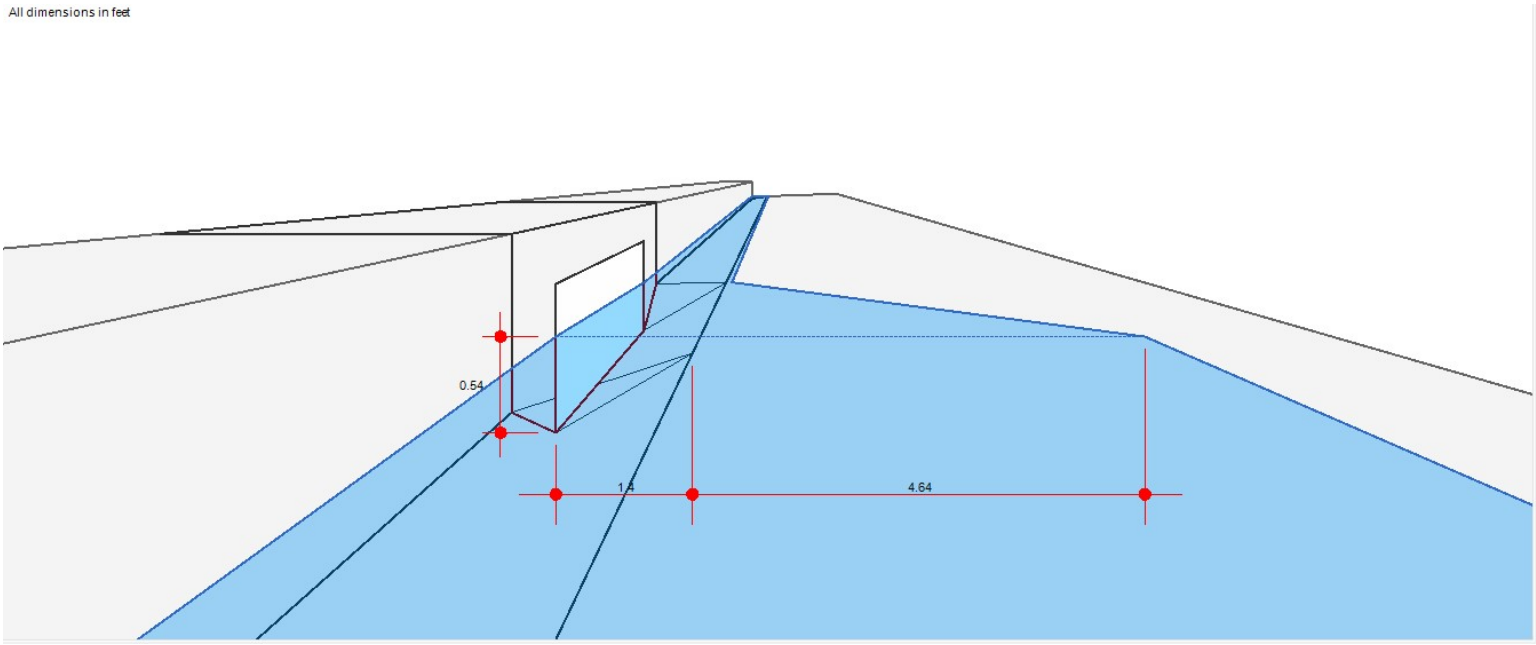
Slope, Sw (ft/ft)	= 0.080
Slope, Sx (ft/ft)	= 0.020
Local Depr (in)	= 4.00
Gutter Width (ft)	= 1.40
Gutter Slope (%)	= 1.80
Gutter n-value	= 0.015

Calculations

Compute by:	Known Q
Q (cfs)	= 1.24

Highlighted

Q Total (cfs)	= 1.24
Q Capt (cfs)	= 1.05
Q Bypass (cfs)	= 0.19
Depth at Inlet (in)	= 6.46
Efficiency (%)	= 85
Gutter Spread (ft)	= 6.04
Gutter Vel (ft/s)	= 2.93
Bypass Spread (ft)	= 1.50
Bypass Depth (in)	= 1.37



Inlet Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Wednesday, Oct 2 2024

CI-D1 (25 YEAR)

Curb Inlet

Location	= On grade
Curb Length (ft)	= 4.00
Throat Height (in)	= 2.00
Grate Area (sqft)	= -0-
Grate Width (ft)	= -0-
Grate Length (ft)	= -0-

Gutter

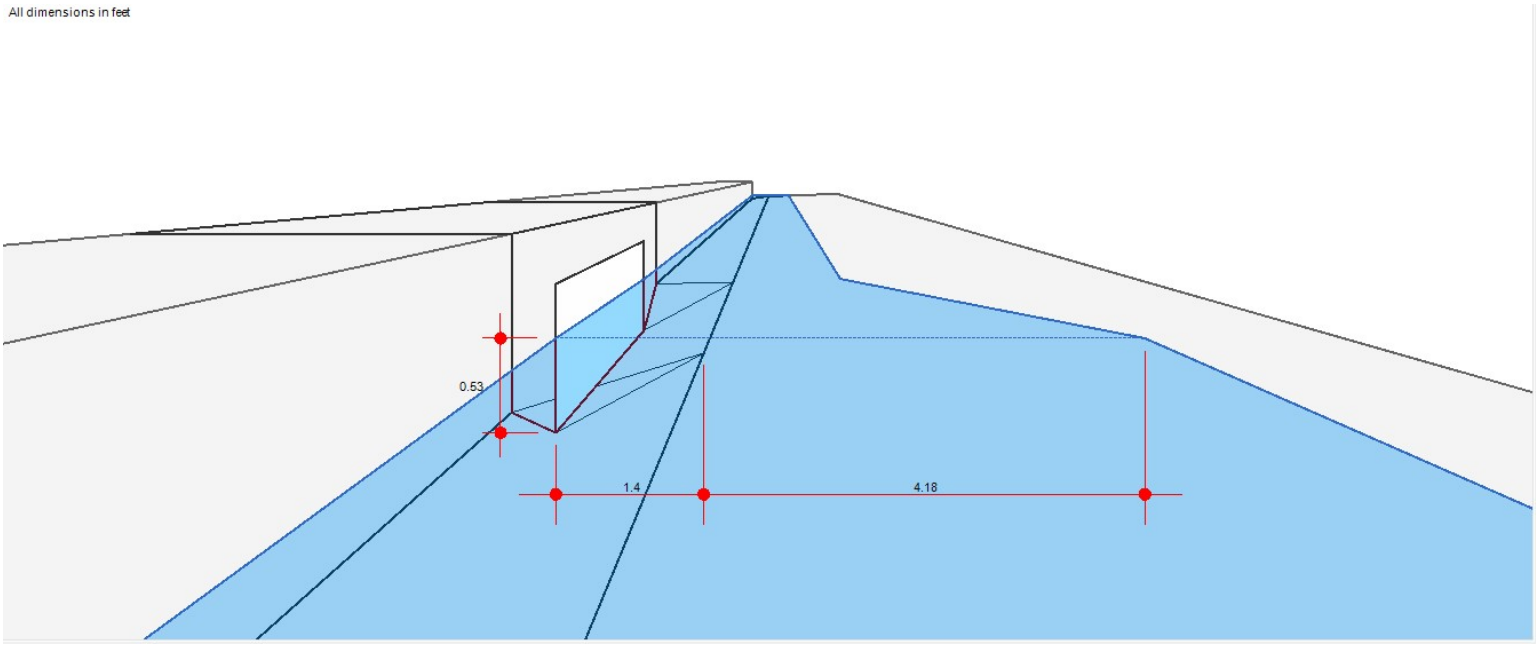
Slope, Sw (ft/ft)	= 0.080
Slope, Sx (ft/ft)	= 0.020
Local Depr (in)	= 4.00
Gutter Width (ft)	= 1.40
Gutter Slope (%)	= 5.00
Gutter n-value	= 0.015

Calculations

Compute by:	Known Q
Q (cfs)	= 1.76

Highlighted

Q Total (cfs)	= 1.76
Q Capt (cfs)	= 1.11
Q Bypass (cfs)	= 0.65
Depth at Inlet (in)	= 6.35
Efficiency (%)	= 63
Gutter Spread (ft)	= 5.58
Gutter Vel (ft/s)	= 4.76
Bypass Spread (ft)	= 3.10
Bypass Depth (in)	= 1.75



Channel Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Wednesday, Oct 2 2024

PIPE A1 (25 YEAR)

Circular

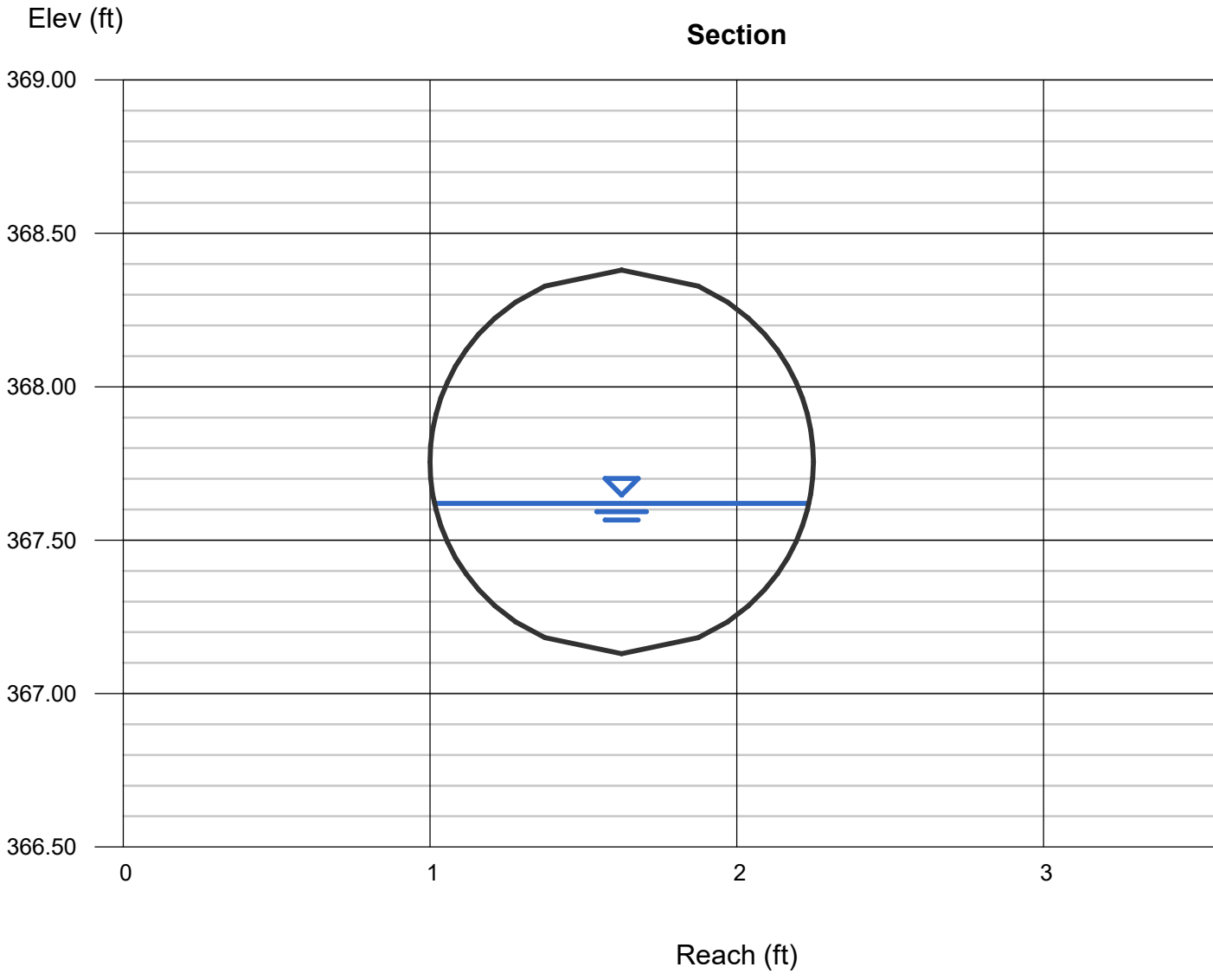
Diameter (ft)	= 1.25
Invert Elev (ft)	= 367.13
Slope (%)	= 1.03
N-Value	= 0.015

Calculations

Compute by:	Known Q
Known Q (cfs)	= 1.79

Highlighted

Depth (ft)	= 0.49
Q (cfs)	= 1.790
Area (sqft)	= 0.45
Velocity (ft/s)	= 4.00
Wetted Perim (ft)	= 1.69
Crit Depth, Yc (ft)	= 0.54
Top Width (ft)	= 1.22
EGL (ft)	= 0.74



Channel Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Wednesday, Oct 2 2024

PIPE A2 (25 YEAR)

Circular

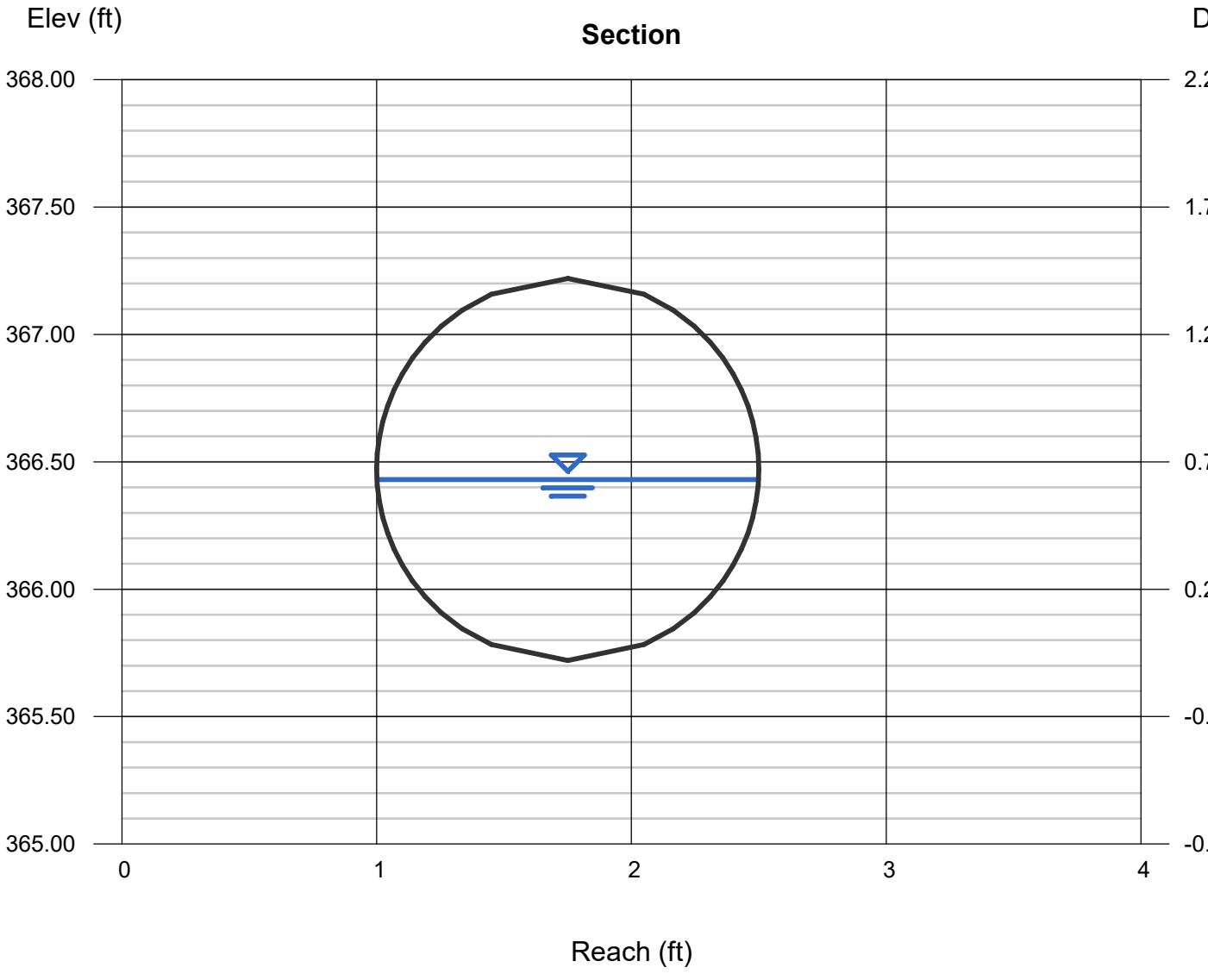
Diameter (ft)	= 1.50
Invert Elev (ft)	= 365.72
Slope (%)	= 0.95
N-Value	= 0.015

Calculations

Compute by:	Known Q
Known Q (cfs)	= 4.02

Highlighted

Depth (ft)	= 0.71
Q (cfs)	= 4.020
Area (sqft)	= 0.83
Velocity (ft/s)	= 4.86
Wetted Perim (ft)	= 2.28
Crit Depth, Yc (ft)	= 0.77
Top Width (ft)	= 1.50
EGL (ft)	= 1.08



Channel Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Wednesday, Oct 2 2024

PIPE A3 (25 YEAR)

Circular

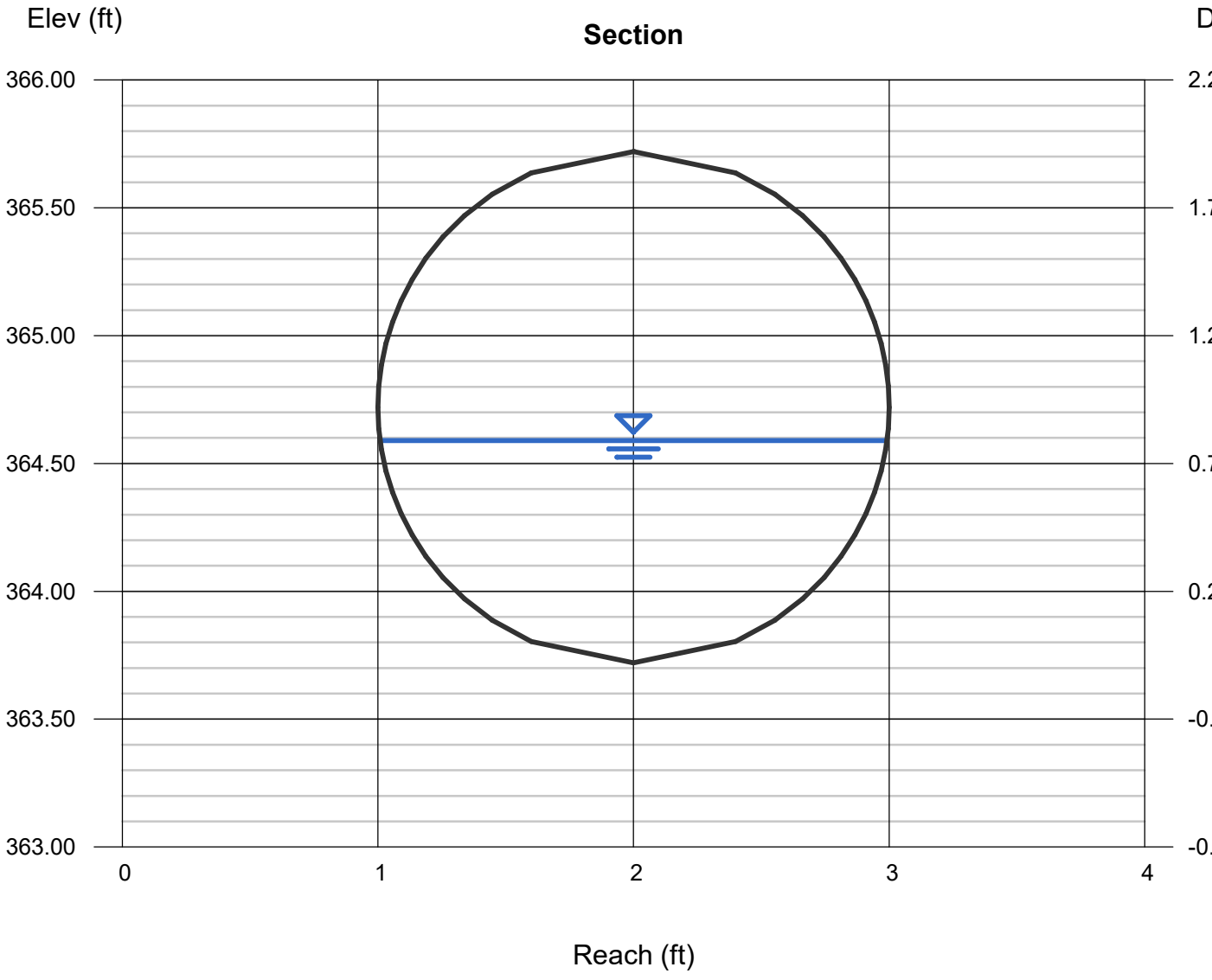
Diameter (ft)	= 2.00
Invert Elev (ft)	= 363.72
Slope (%)	= 0.98
N-Value	= 0.015

Calculations

Compute by:	Known Q
Known Q (cfs)	= 7.56

Highlighted

Depth (ft)	= 0.87
Q (cfs)	= 7.560
Area (sqft)	= 1.32
Velocity (ft/s)	= 5.72
Wetted Perim (ft)	= 2.89
Crit Depth, Yc (ft)	= 0.98
Top Width (ft)	= 1.98
EGL (ft)	= 1.38



Channel Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Wednesday, Oct 2 2024

PIPE A4 (25 YEAR)

Circular

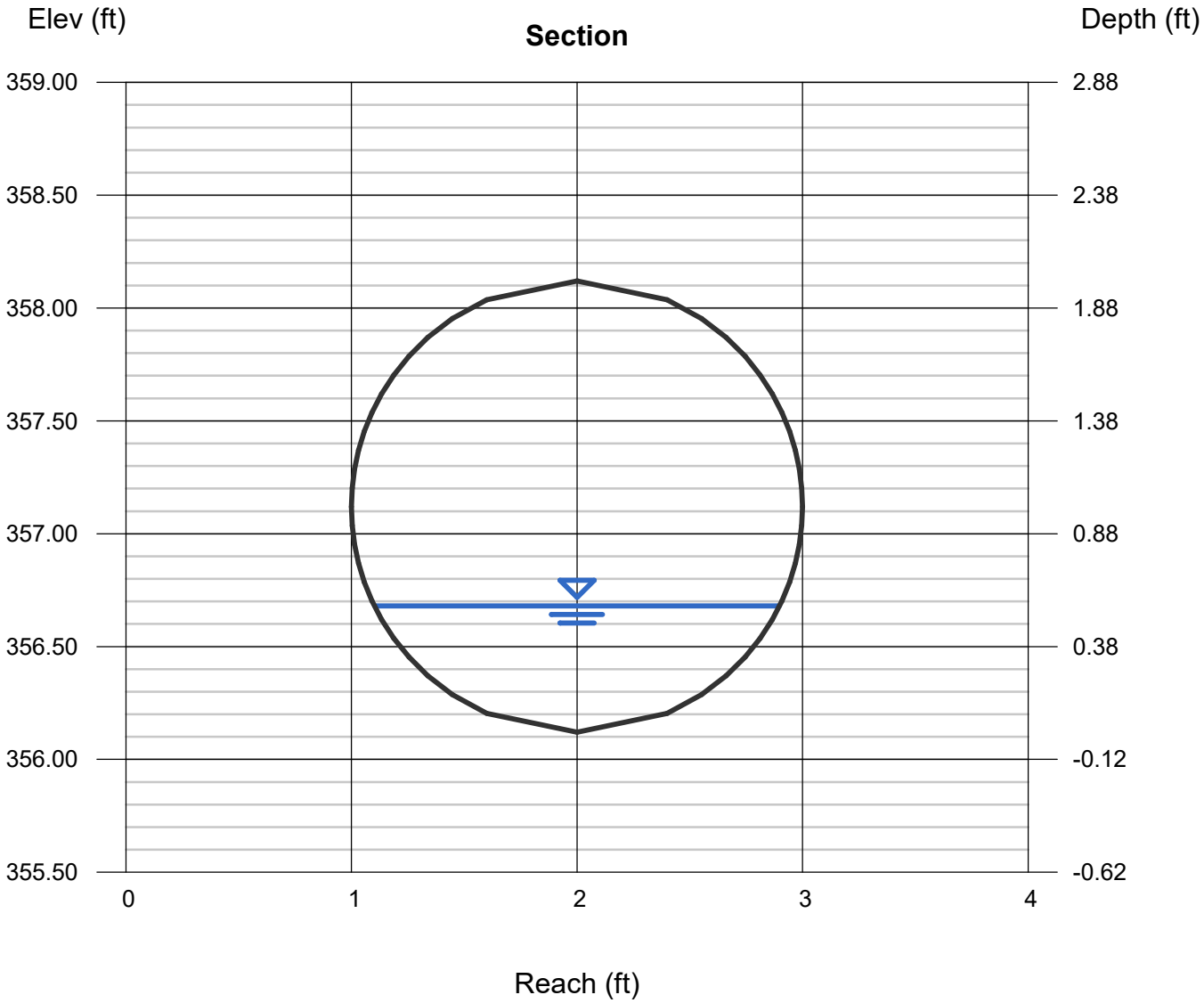
Diameter (ft)	= 2.00
Invert Elev (ft)	= 356.12
Slope (%)	= 5.01
N-Value	= 0.015

Calculations

Compute by:	Known Q
Known Q (cfs)	= 7.56

Highlighted

Depth (ft)	= 0.56
Q (cfs)	= 7.560
Area (sqft)	= 0.73
Velocity (ft/s)	= 10.39
Wetted Perim (ft)	= 2.24
Crit Depth, Yc (ft)	= 0.98
Top Width (ft)	= 1.80
EGL (ft)	= 2.24



Channel Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Wednesday, Oct 2 2024

PIPE A5 (25 YEAR)

Circular

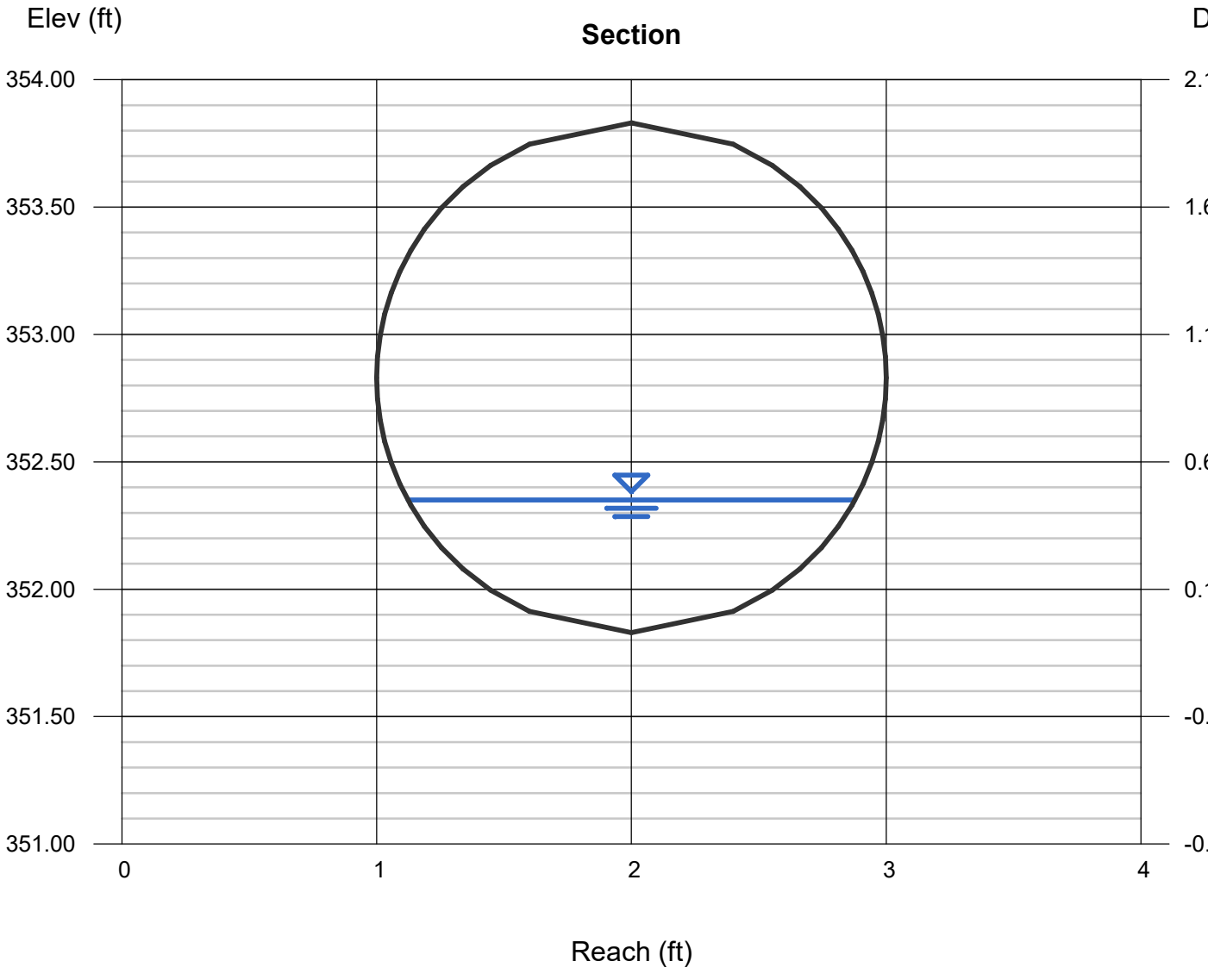
Diameter (ft)	= 2.00
Invert Elev (ft)	= 351.83
Slope (%)	= 8.14
N-Value	= 0.015

Calculations

Compute by:	Known Q
Known Q (cfs)	= 8.14

Highlighted

Depth (ft)	= 0.52
Q (cfs)	= 8.140
Area (sqft)	= 0.66
Velocity (ft/s)	= 12.40
Wetted Perim (ft)	= 2.15
Crit Depth, Yc (ft)	= 1.02
Top Width (ft)	= 1.76
EGL (ft)	= 2.91



Channel Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Wednesday, Oct 2 2024

PIPE B1 (25 YEAR)

Circular

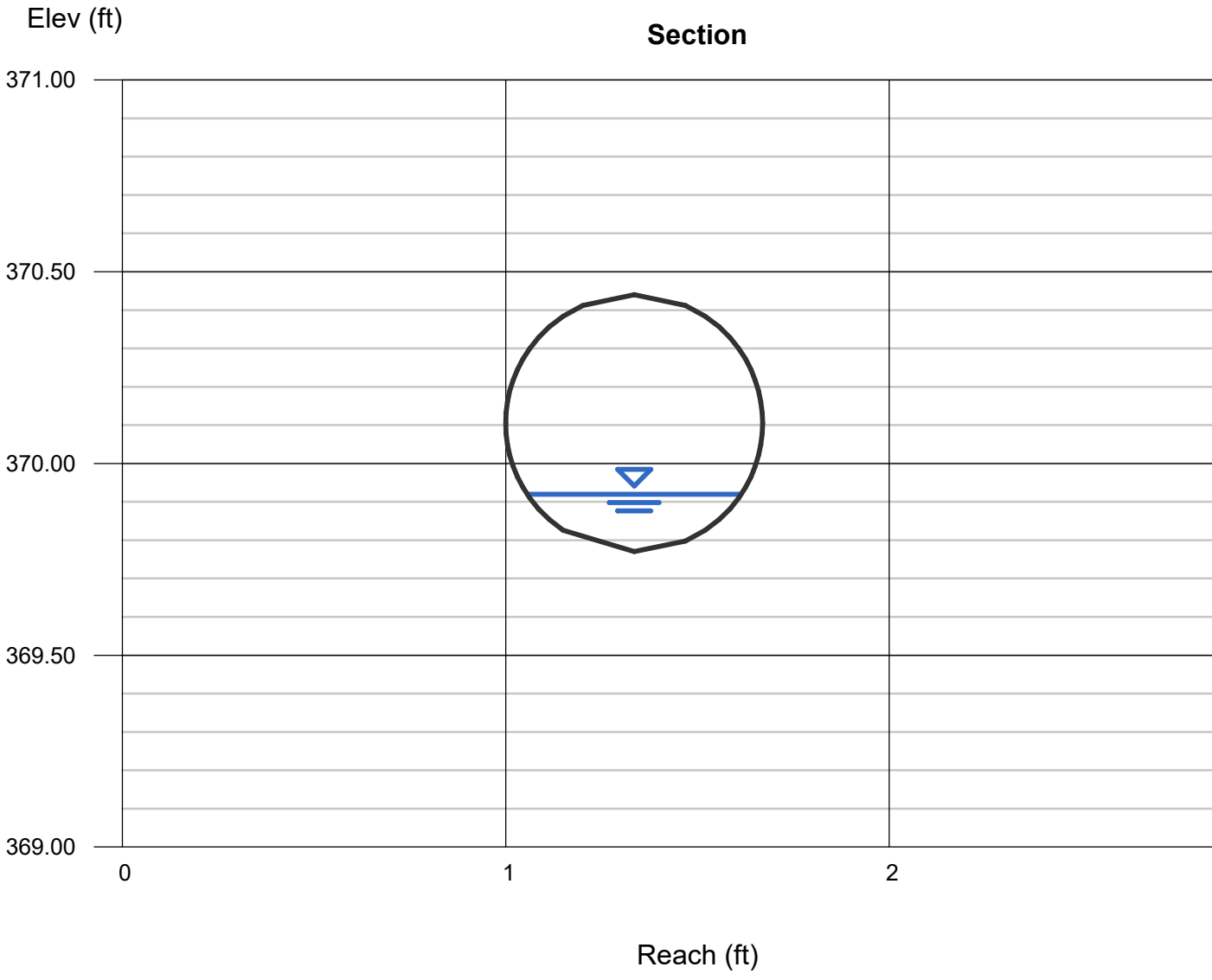
Diameter (ft)	= 0.67
Invert Elev (ft)	= 369.77
Slope (%)	= 3.00
N-Value	= 0.015

Calculations

Compute by:	Known Q
Known Q (cfs)	= 0.18

Highlighted

Depth (ft)	= 0.15
Q (cfs)	= 0.180
Area (sqft)	= 0.06
Velocity (ft/s)	= 3.02
Wetted Perim (ft)	= 0.66
Crit Depth, Yc (ft)	= 0.20
Top Width (ft)	= 0.56
EGL (ft)	= 0.29



Channel Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Wednesday, Oct 2 2024

PIPE B2 (25 YEAR)

Circular

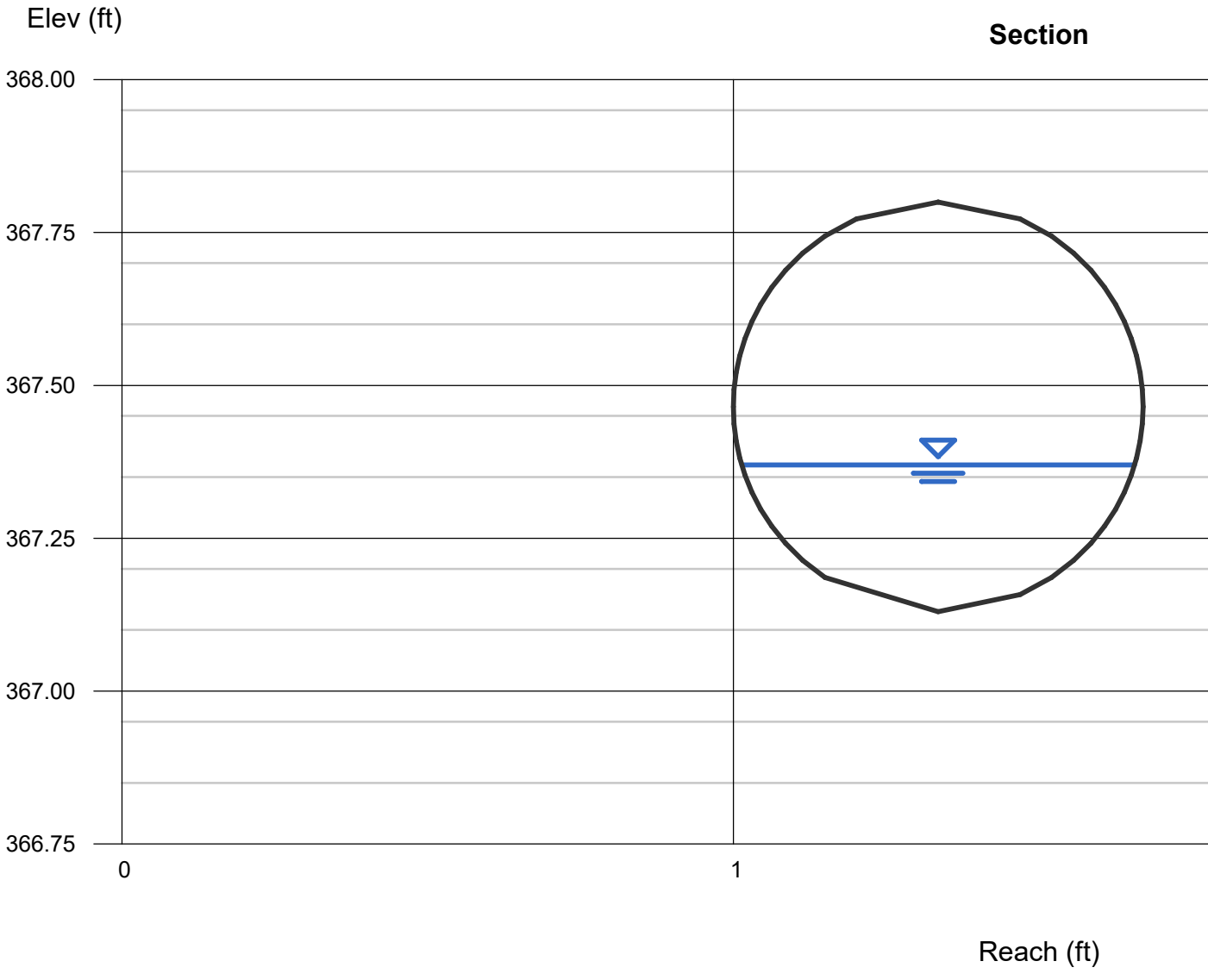
Diameter (ft)	= 0.67
Invert Elev (ft)	= 367.13
Slope (%)	= 3.00
N-Value	= 0.015

Calculations

Compute by:	Known Q
Known Q (cfs)	= 0.48

Highlighted

Depth (ft)	= 0.24
Q (cfs)	= 0.480
Area (sqft)	= 0.11
Velocity (ft/s)	= 4.22
Wetted Perim (ft)	= 0.86
Crit Depth, Yc (ft)	= 0.33
Top Width (ft)	= 0.64
EGL (ft)	= 0.52



Channel Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Wednesday, Oct 9 2024

PIPE C1 (25 YEAR)

Circular

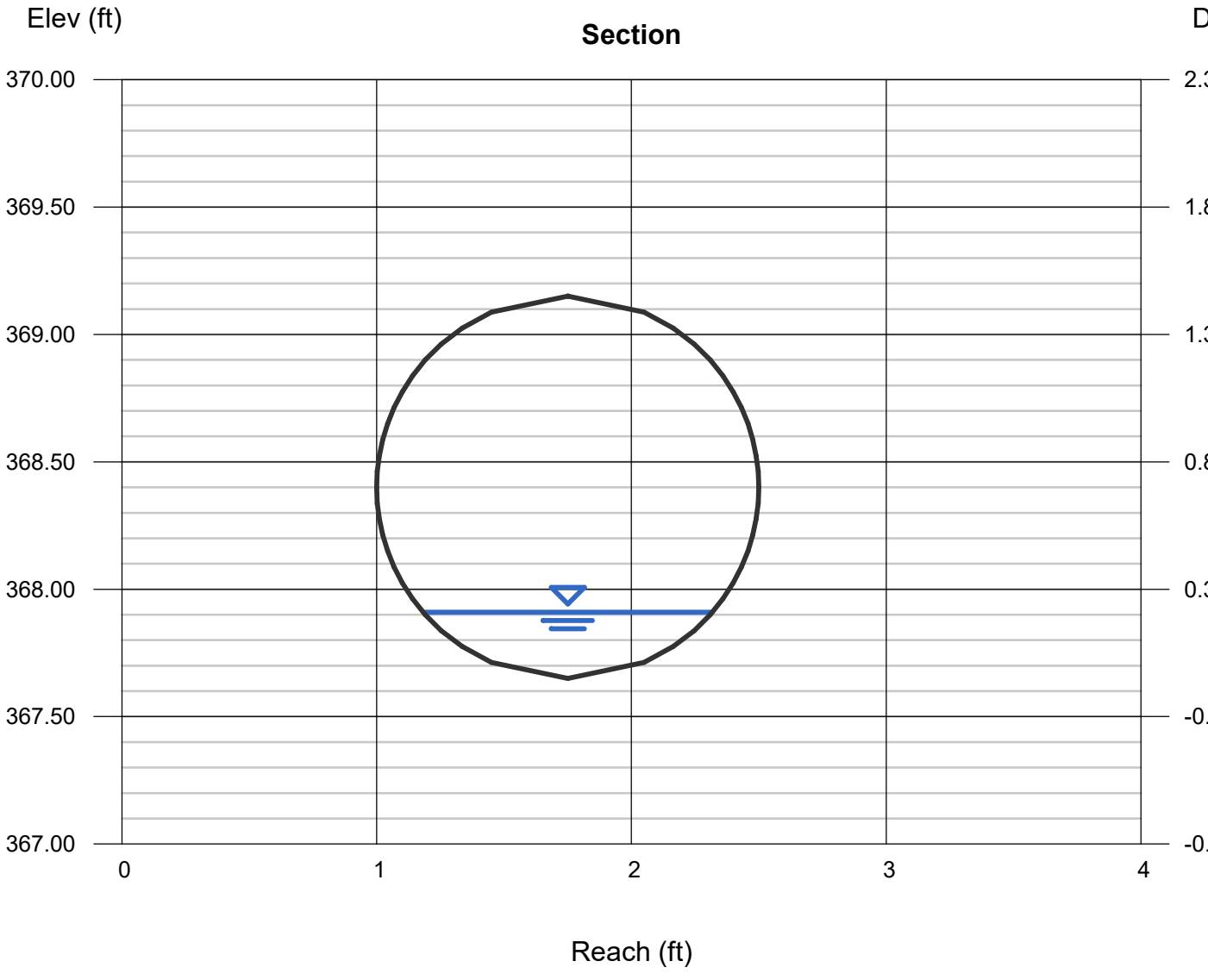
Diameter (ft)	= 1.50
Invert Elev (ft)	= 367.65
Slope (%)	= 1.14
N-Value	= 0.015

Calculations

Compute by:	Known Q
Known Q (cfs)	= 0.61

Highlighted

Depth (ft)	= 0.26
Q (cfs)	= 0.610
Area (sqft)	= 0.21
Velocity (ft/s)	= 2.97
Wetted Perim (ft)	= 1.29
Crit Depth, Yc (ft)	= 0.29
Top Width (ft)	= 1.14
EGL (ft)	= 0.40



Channel Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Wednesday, Oct 9 2024

PIPE C2 (25 YEAR)

Circular

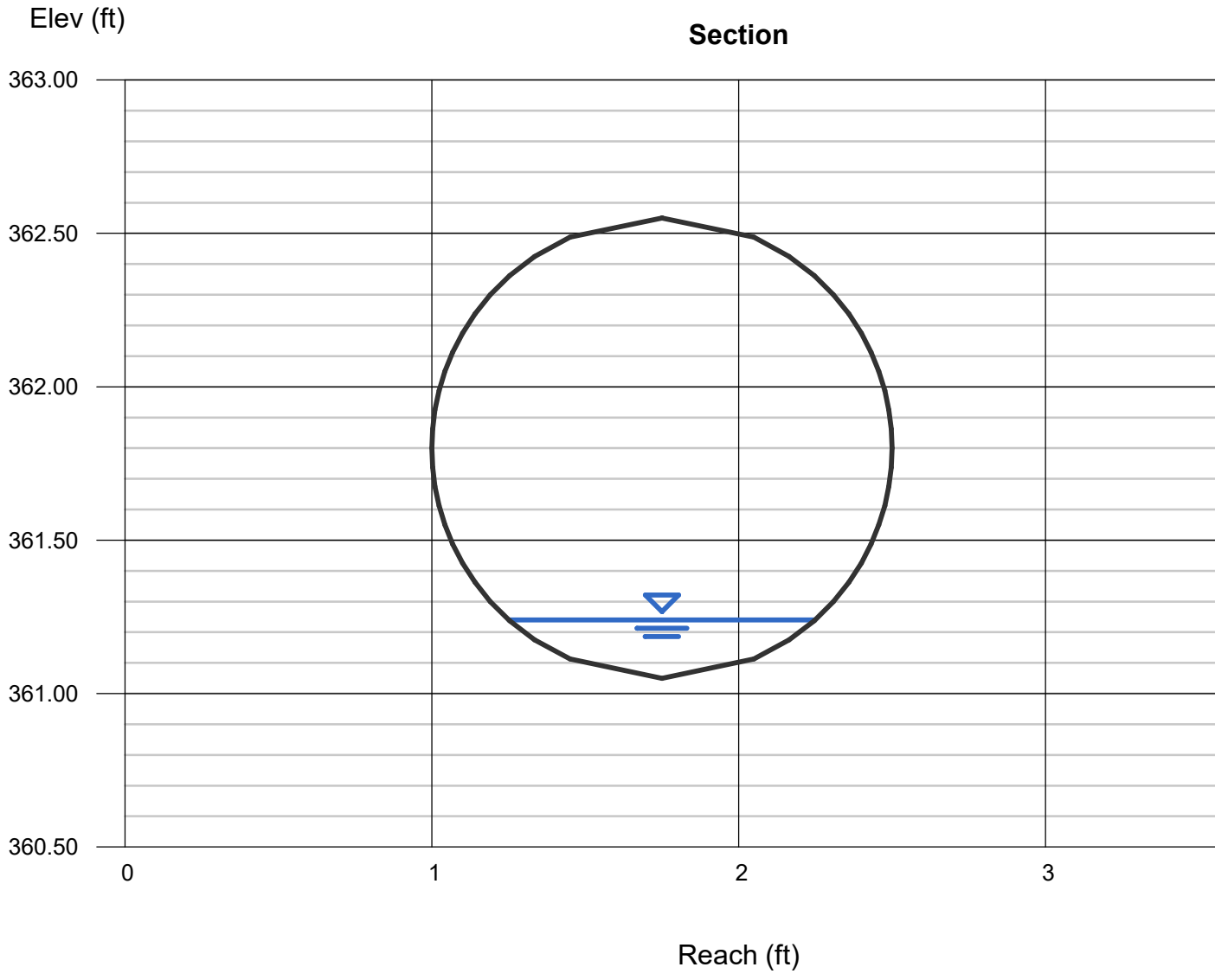
Diameter (ft)	= 1.50
Invert Elev (ft)	= 361.05
Slope (%)	= 6.06
N-Value	= 0.015

Calculations

Compute by:	Known Q
Known Q (cfs)	= 0.72

Highlighted

Depth (ft)	= 0.19
Q (cfs)	= 0.720
Area (sqft)	= 0.13
Velocity (ft/s)	= 5.49
Wetted Perim (ft)	= 1.09
Crit Depth, Yc (ft)	= 0.32
Top Width (ft)	= 1.00
EGL (ft)	= 0.66



Channel Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Wednesday, Oct 9 2024

PIPE C3 (25 YEAR)

Circular

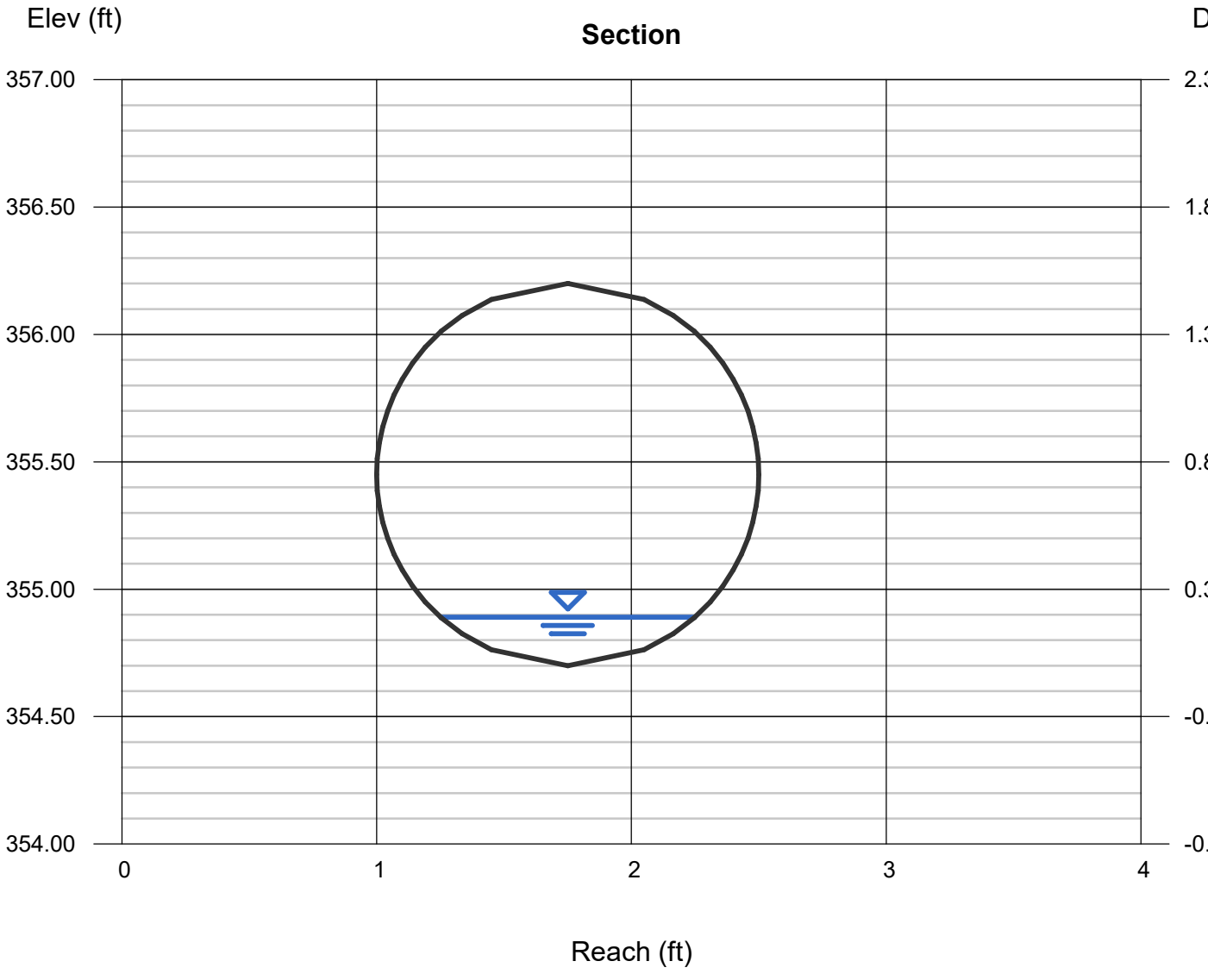
Diameter (ft)	= 1.50
Invert Elev (ft)	= 354.70
Slope (%)	= 5.91
N-Value	= 0.015

Calculations

Compute by:	Known Q
Known Q (cfs)	= 0.72

Highlighted

Depth (ft)	= 0.19
Q (cfs)	= 0.720
Area (sqft)	= 0.13
Velocity (ft/s)	= 5.49
Wetted Perim (ft)	= 1.09
Crit Depth, Yc (ft)	= 0.32
Top Width (ft)	= 1.00
EGL (ft)	= 0.66



Channel Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Wednesday, Oct 9 2024

PIPE C4 (25 YEAR)

Circular

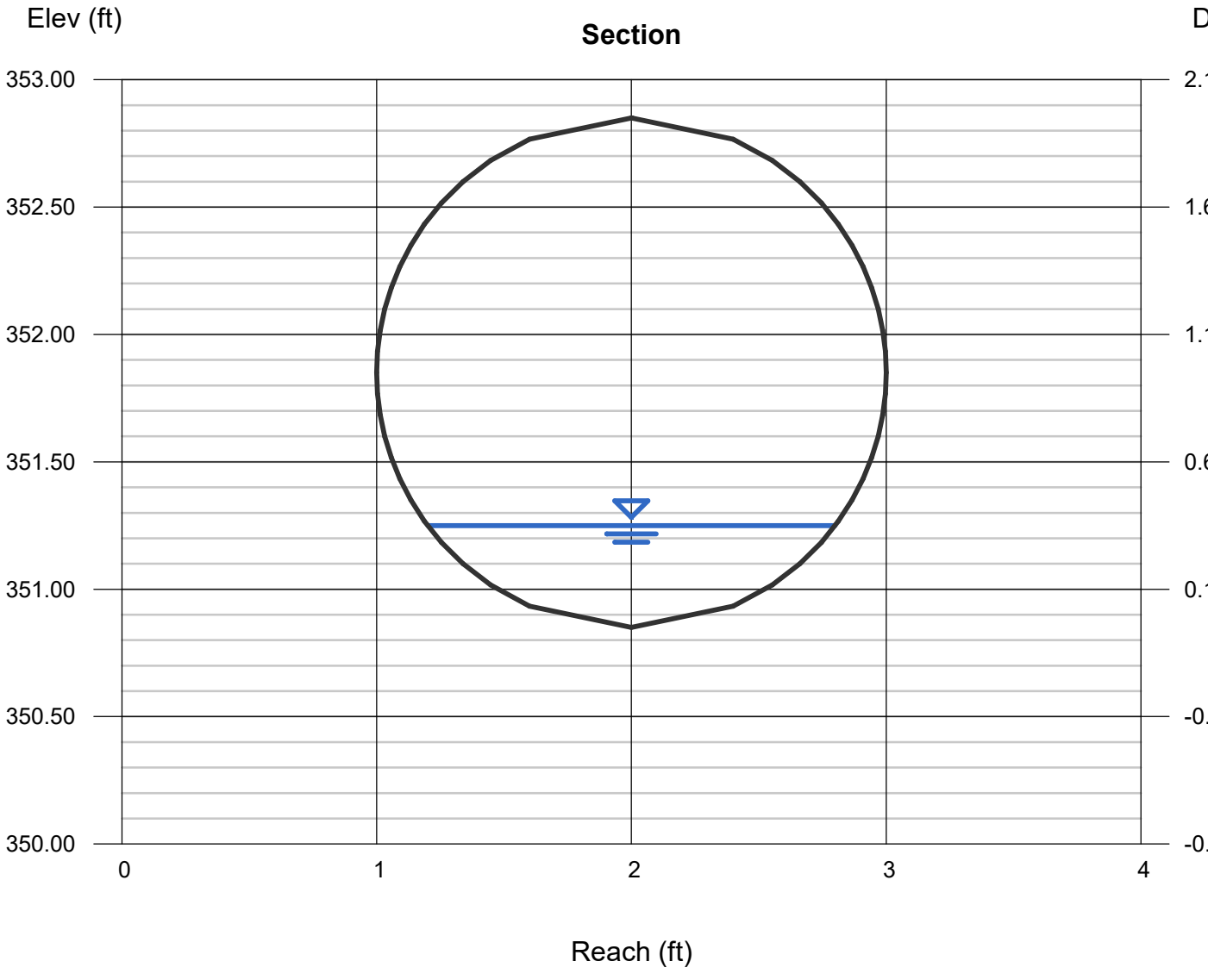
Diameter (ft)	= 2.00
Invert Elev (ft)	= 350.85
Slope (%)	= 2.91
N-Value	= 0.015

Calculations

Compute by:	Known Q
Known Q (cfs)	= 2.81

Highlighted

Depth (ft)	= 0.40
Q (cfs)	= 2.810
Area (sqft)	= 0.45
Velocity (ft/s)	= 6.23
Wetted Perim (ft)	= 1.86
Crit Depth, Yc (ft)	= 0.59
Top Width (ft)	= 1.60
EGL (ft)	= 1.00



Channel Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Wednesday, Oct 9 2024

PIPE C5 (25 YEAR)

Circular

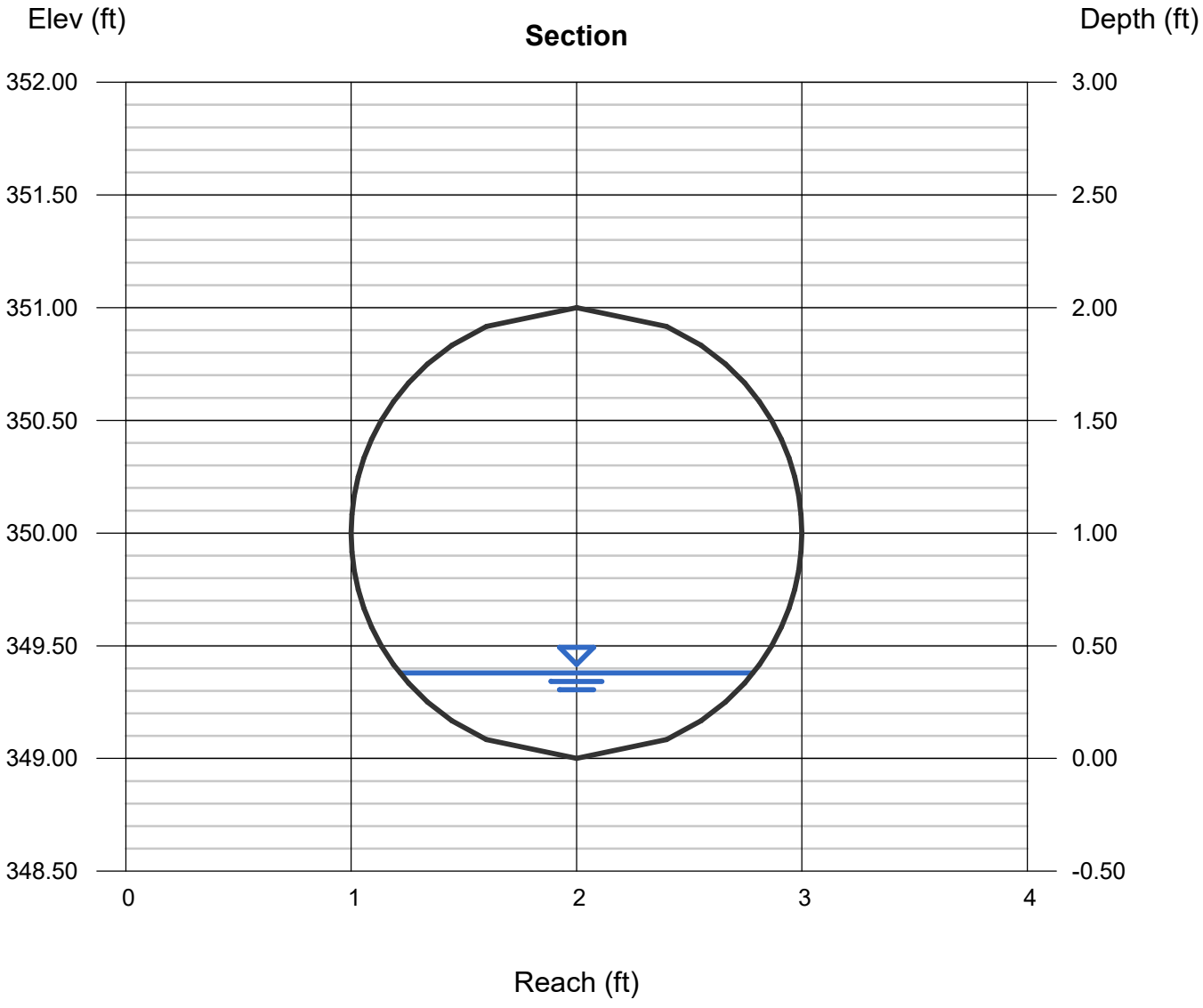
Diameter (ft)	= 2.00
Invert Elev (ft)	= 349.00
Slope (%)	= 7.25
N-Value	= 0.015

Calculations

Compute by:	Known Q
Known Q (cfs)	= 4.05

Highlighted

Depth (ft)	= 0.38
Q (cfs)	= 4.050
Area (sqft)	= 0.42
Velocity (ft/s)	= 9.66
Wetted Perim (ft)	= 1.81
Crit Depth, Yc (ft)	= 0.71
Top Width (ft)	= 1.57
EGL (ft)	= 1.83



Channel Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Wednesday, Oct 2 2024

PIPE D1 (25 YEAR)

Circular

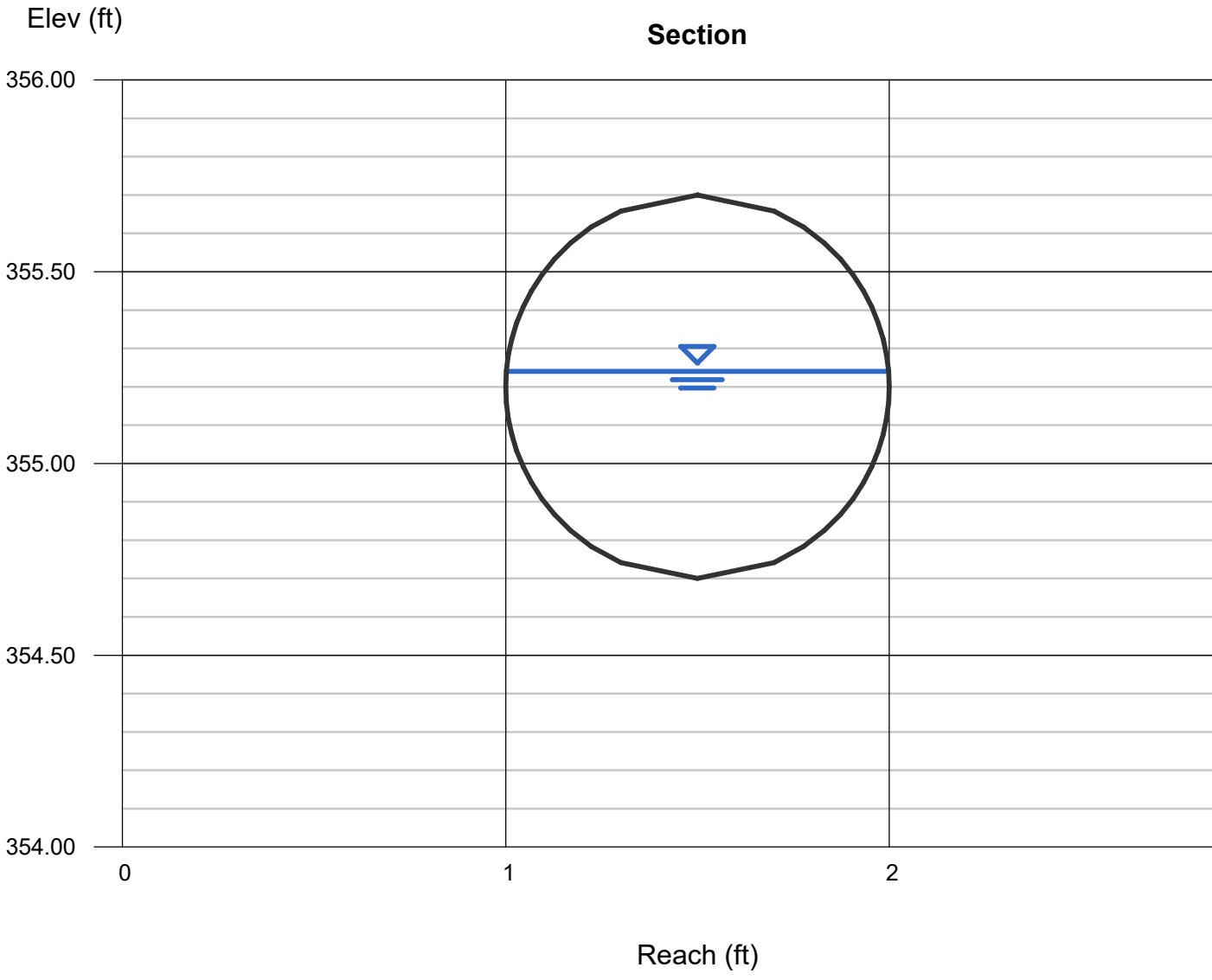
Diameter (ft)	= 1.00
Invert Elev (ft)	= 354.70
Slope (%)	= 1.00
N-Value	= 0.015

Calculations

Compute by:	Known Q
Known Q (cfs)	= 1.76

Highlighted

Depth (ft)	= 0.54
Q (cfs)	= 1.760
Area (sqft)	= 0.43
Velocity (ft/s)	= 4.05
Wetted Perim (ft)	= 1.65
Crit Depth, Yc (ft)	= 0.57
Top Width (ft)	= 1.00
EGL (ft)	= 0.79



DRAINAGE BASIN MAPS

PRE DRAINAGE MAP

SCALE 1" = 50'

N

0 50'

1" = 50'-0"

PHILLIP LEWIS ENGINEERING, INC.
Structural + Civil Consultants
23620 Interstate 30 | Bryant, Arkansas
PH: 501-350-9840

REVISION:

BRYANT SEMINARY
HIGHWAY 5
BRYANT, ARKANSAS

CERTIFICATE OF AUTHORIZATION
PHILLIP LEWIS ENGINEERING, INC.
No. 566
ARKANSAS ENGINEER

STATE OF ARKANSAS
PHILLIP O. LEWIS
REGISTERED PROFESSIONAL ENGINEER
14540
PHILLIP O. LEWIS

PROJECT NUMBER:

SHEET ISSUE DATE:
10-09-2024

PAGE TITLE:
PRE DRAINAGE MAP

SHEET NUMBER:
C1.11

POST DRAINAGE MAP

SCALE 1" = 50'

GENERAL SITE NOTES

1. TOTAL NEW DEVELOPMENT AREA = (+/-) 1.12 ACRES
2. PROPERTY IS ZONED C-2
3. 43 PARKING SPACES PROVIDED INCLUDING 2 ADA ACCESSIBLE PARKING SPACES
4. ALL DIMENSIONS ARE TO THE BACK OF CURB AND/OR EDGE OF PAVEMENT
5. DAMAGE TO PUBLIC AND PRIVATE PROPERTY DUE TO HAULING OPERATIONS OR OPERATIONS OF CONSTRUCTION RELATED EQUIPMENT FROM A CONSTRUCTION SITE SHALL BE REPAIRED BY THE THE RESPONSIBLE PARTY PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
6. REPAIR, REPLACE, OR EXTEND EXISTING DAMAGED OR MISSING CURB AND GUTTER, SIDEWALK OR RAMPS WITHIN THE PUBLIC RIGHT OF WAY.
7. ALL SIGNAGE, PAVEMENT MARKING AND PARKING LOT STRIPING SHALL CONFORM TO REQUIREMENTS GIVEN IN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). MUTCD REQUIRES THAT PARKING SPACES BE MARKED IN WHITE.

N

0 50'

1" = 50'-0"

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HIGHWAY 5
BRYANT, ARKANSAS

PROJECT NUMBER:

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10-09-2024

PAGE TITLE:
POST DRAINAGE MAP

SHEET NUMBER:
C1.12

SOIL CLASSIFICATION MAPS

United States Department of Agriculture

NRCS

Natural Resources Conservation Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Saline County, Arkansas

August 30, 2024

Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require

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Contents

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report
Soil Map

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Saline County, Arkansas
Survey Area Data: Version 20, Sep 12, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: May 1, 2022—May 29, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
16	Ouachita silt loam, 0 to 1 percent slopes, frequently flooded	3.6	25.0%
22	Savannah fine sandy loam, 3 to 8 percent slopes	2.5	17.8%
27	Smithdale loamy sand, 8 to 12 percent slopes	4.9	34.4%
29	Tiak silt loam, 3 to 8 percent slopes	3.3	22.9%
Totals for Area of Interest		**14.2**	**100.0%**

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

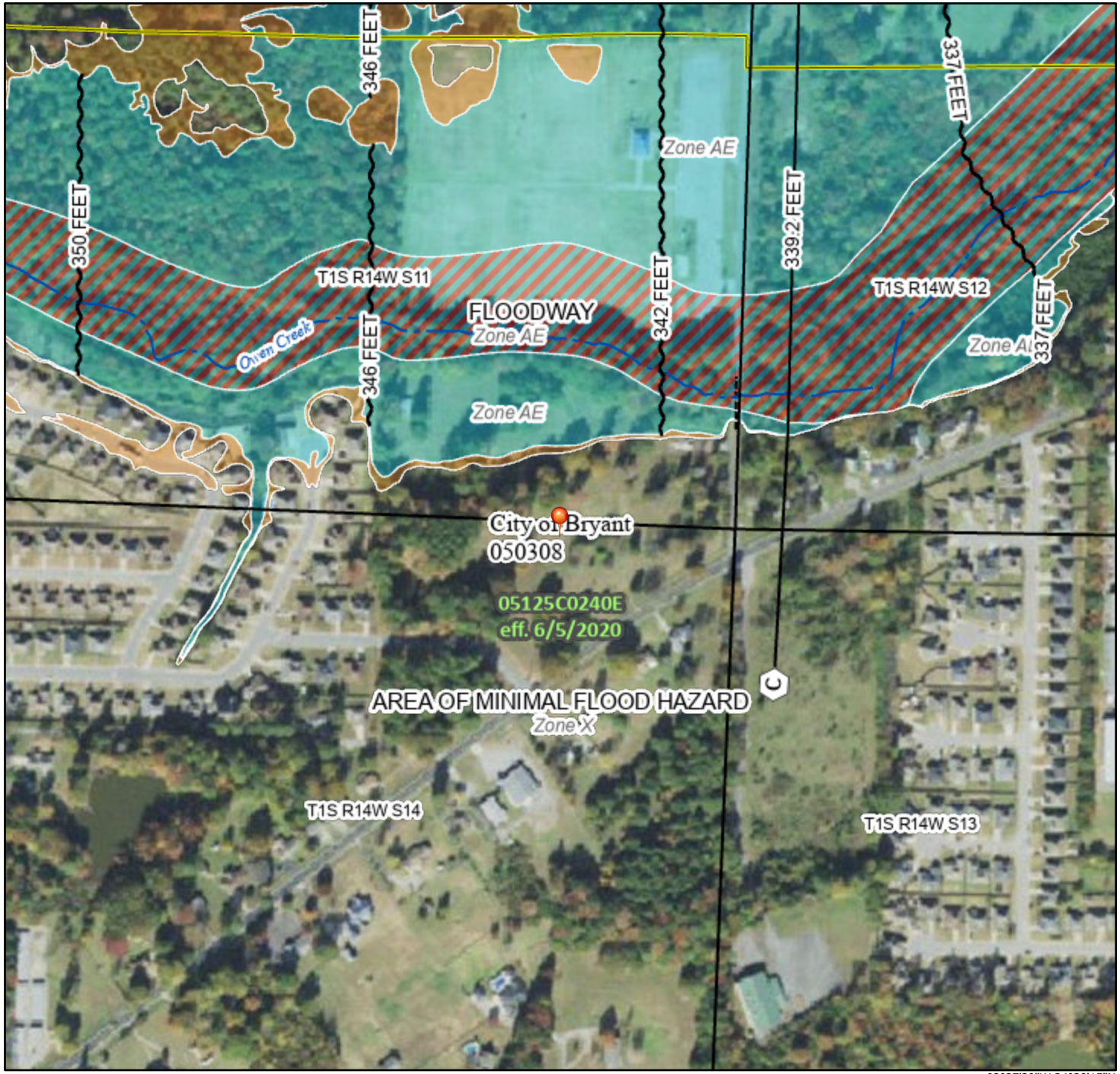
Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

FEMA FLOOD INSURANCE RATE MAP

National Flood Hazard Layer FIRMette

FEMA

92°28'7"W 34°38'45"N



92°27'30"W 34°38'15"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 10/9/2024 at 5:29 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.