10-22-2015

Prologis South Park
Stormwater Drainage Report

Submitted To:
City of Grove City

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Breaking Ground | Breaking Boundaries

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Introduction

This report serves at the Storm Water Management Report for the proposed South Park development by Prologis in Grove City, Ohio. The project takes place on approximately 43.8 acres located at the end South Park Place. Approximately 2.8 acres is within the right of way for Marlane Drive.

The project is located within the drainage area of Marsh Creek which flows into Scioto Big Run (14-Digit HUC 050600001230020) and then drains into the Scioto River watershed (8-Digit HUC 0506001).

Methodology

JHA utilized Autodesk's Storm and Sanitary Analysis (SSA) 2015 software for the calculations and analysis detailed herein. Autodesk Storm and Sanitary Analysis is a link-node based model that performs hydrology, hydraulic, and water quality analysis of storm water and wastewater drainage systems, including sewage treatment plants and water quality control devices. A link represents a hydraulic element (i.e., a pipe, channel, pump, standpipe, culvert, or weir) that transports flow and constituents. There are numerous different link element types supported by the software. A node can represent the junction of two or more links, a storm drain catch basin inlet, the location of a flow or pollutant input into the system, or a storage element (such as a detention pond, retention pond, settling pond, or lake).

Hydrology Modeling: NRCS (SCS) Tr-55 has been utilized to perform the hydrology analysis for this project. This method was selected due to its ability to account for a 24-hour storm and can include the effects of attenuation and storage in the routing of storm water through the sewer system.

Hydraulic Modeling: A hydrodynamic model has been utilized to route runoff and external inflows through the drainage system network of pipes, channels, storage/treatment units, and diversion structures. Hydrodynamic routing solves the complete St. Venant equations throughout the drainage network and includes modeling of backwater effects, flow reversal, surcharging, looped connections, pressure flow, and interconnected ponds. Flow can also be routed through a variety of different storage elements, such as detention ponds, settling ponds, and lakes.

Pre-Development Conditions

The 43.8 acre site is located at the end of South Park Place within the Southpark Industrial Park and is currently being farmed. There are several dense wooded areas around the perimeter of the site. The site slopes to the north and has approximately 20' of fall from the southern property line to the grades along Marlane Drive. There are several drainage easements along the right of way for Marlane Drive to allow grading down to culverts that convey stormwater runoff from the site and the road to the north. Table 1 below summarizes the pre-development runoff information. Appendix B contains the detailed pre-development SSA output, while Appendix C depicts the pre-development tributary map, and Appendix F identifies the soils found within the site boundary. All of the soils found onsite were identified as either Hydrological Soil Group C or C/D. As all of the site drains currently drains to the roadside ditch along Marlane Drive the C category was used for all of the site. The detailed breakdown to develop the curve number shown below can be found within Appendix B.

The time of concentration (Tc) determined using the paths shown on Appendix C resulting in a Tc of 29.13 minutes.

Table 1. Pre-Development Runoff Summary

A = Drainage Area = 40.99 Acres

CN = Curve Number = 76.88

Storm Frequency (yr)	Rainfall (in)	S (1000/CN-10)	Ia (0.2*S)	Runoff Volume (in)	Runoff Volume (Cu Ft)	Peak (cfs)
1	2.20	3.007	0.601	0.55	82,552	17.9
2	2.60	3.007	0.601	0.80	118,723	27.2
5	3.20	3.007	0.601	1.20	179,228	42.9
10	3.70	3.007	0.601	1.57	233,967	57.0
25	4.40	3.007	0.601	2.12	315,455	77.7
50	5.00	3.007	0.601	2.61	388,713	96.2
100	5.60	3.007	0.601	3.12	464,371	115.0

Post development Conditions

The proposed project constructs two buildings which total 648,800 sq.ft. along with employee parking, drive-up doors, truck docks and access drives to circulate traffic onsite. Appendix E depicts the post-development tributary map, and Appendix F identifies the soils found within the site boundary. The proposed storm sewer has been included in the SSA model to more accurately account for storage into the pipes during rain events and can be found in SSA Output in Appendix D. The final design calculations for the storm sewer will be submitted with the final construction plans.

Table 2 below summarizes the Post Development, un-detained runoff calculations:

Table 2. Post Development Runoff Summary

A = Drainage Area = 40.99 Acres

CN = Curve Number = 93.76

1 yr. Pre-Development Runoff (in) = 0.55

1 yr. Post-Development Runoff (in) = 1.56

% Increase in runoff = 182%

Storm Frequency (yr)	Rainfall (in)	S (1000/CN-10)	Ia (0.2*S)	Runoff Volume (in)	Runoff Volume (Cu Ft)	Undetained Peak Discharge (cfs)	
1	2.20	0.666	0.133	1.56	232,634	86.7	
2	2.60	0.666	0.133	1.94	289,071	106.8	
5	3.20	0.666	0.133	2.52	374,965	136.6	
10	3.70	0.666	0.133	3.01	447,276	161.3	
25	4.40	0.666	0.133	3.69	549,222	195.9	←**Critical**
50	5.00	0.666	0.133	4.28	637,049	225.4	**Storm**
100	5.60	0.666	0.133	4.87	725,160	254.7	

Water Quality

During construction the basins will be utilized as construction sediment control basins. Upon minimum 75% establishment of vegetation the basin will be cleaned of all sediment. Water quality calculations for the proposed project are shown below in Table 3.

Table 3. Water Quality Calculations

WQv (Water Quality Volume in Acre-Feet) = C*P*A/12					
C = Runoff Coefficient	=	0.8			
P = Precipitation Depth	=	0.75			
A = Area draining into the BMP (Acres)	=	40.99			
T = Required drawdown time	=	24	hours		
WQv =		**2.050**	**Ac-Ft =**	**89,276**	**Cu. Ft.**
10% WQv for Forebay and Micropool =		0.205	Ac-Ft =	8927.6	Cu. Ft.
WQv Elevation in Pond =		769.1			
Orifice Invert Elevation =		768.0			Orifice Equation:
Q=V/T =		1.03	cfs		$Q = CdA\sqrt{2gh}$
Orifice Coeff=		0.61			
Orifice Area=		0.20	Sq.Ft.		
Diameter of Water Quality orifice for required drawdown				**=**	**6.1 in.**
Percentage of Total Water QualityVolume=		Q*8 hr*60 Min*60s/WQv			
Percentage of volume drawdown in first 8 hours =					**33.33%**

Contributing Drainage Area	Sediment Basin				Permanent Stormwater Facility				Volume Provided in Ponds
	Dewatering Volume (1800 cf/ac)	Sediment Storage Vol. (1000 cf/ac)	Detention Time (Min 48 hrs)	Faircloth Skimmer Size	Water Quality Volume (WQv)	Micro-Pool Forebay Volume	Detention Time (Min 24 hrs)	WQv Orifice Size	
(ac.)	(cf)	(cf)	(hours)	(in)	(cf)	(cfs)	(hours)	(in)	(cf)
41.0	73,782	40,990	48	8.0	89,276	N/A	24	6.1	261,138

Quantitative Storm Water Control

Table 4 below summarizes the flow into and out of the proposed detention basin along with the provided storage.

Table 4. Storm Water Management Summary

Storm (yr)	Allowable (cfs)	Proposed (cfs)	Water
1	17.9	1.4	770.2
2	17.9	2.0	770.6
5	17.9	4.9	770.8
10	17.9	7.8	770.9
25	17.9	13.7	771.1
50	96.2	20.4	771.3
100	115.0	24.5	771.4

Elevation (ft)	Area (Sq.Ft.)	Volume (Cu.Ft.)	Volume (Ac-Ft.)
768.0	79,508	0	0
769.0	84,543	82,013	1.88
770.0	89,680	169,111	3.88
771.0	94,393	261,138	5.99

Appendices

Appendix A. Project Location Map

1 in = 50 miles

PROLOGIS SOUTH PARK
GROVE CITY
FRANKLIN COUNTY, OHIO

Appendix A.
State Location Map

1 inch = 4,000 feet

N

0 2,000 4,000 8,000 12,000 16,000 Feet

Prepared By:

Jobes Henderson & Associates
50 Years 1965-2015

J:\2015\15037 Prologis Capital Park South\01\GIS\MXDs\Figure 1. Project Location Map.mxd

Appendix B. Pre-Development SSA Output

Project Description

File Name ..... 2015-09-16_PREDEVELOPMENT.SPF

Project Options

Flow Units ..... CFS
Elevation Type ..... Elevation
Hydrology Method ..... SCS TR-55
Time of Concentration (TOC) Method ..... SCS TR-55
Link Routing Method ..... Hydrodynamic
Enable Overflow Ponding at Nodes ..... YES
Skip Steady State Analysis Time Periods ..... NO

Analysis Options

Start Analysis On ..... Sep 16, 2015 00:00:00
End Analysis On ..... Sep 17, 2015 00:00:00
Start Reporting On ..... Sep 16, 2015 00:00:00
Antecedent Dry Days ..... 1 days
Runoff (Dry Weather) Time Step ..... 0 01:00:00 days hh:mm:ss
Runoff (Wet Weather) Time Step ..... 0 00:05:00 days hh:mm:ss
Reporting Time Step ..... 0 00:05:00 days hh:mm:ss
Routing Time Step ..... 30 seconds

Number of Elements

	Qty
Rain Gages	1
Subbasins	1
Nodes	1
Junctions	0
Outfalls	1
Flow Diversions	0
Inlets	0
Storage Nodes	0
Links	0
Channels	0
Pipes	0
Pumps	0
Orifices	0
Weirs	0
Outlets	0
Pollutants	0
Land Uses	0

Rainfall Details

SN	Rain Gage ID	Data Source	Data Source ID	Rainfall Type	Rain Units	State	County	Return Period (years)	Rainfall Depth (inches)	Rainfall Distribution
1	Rain Gage-01	Time Series	TS-001	Cumulative	inches	Ohio	Franklin	1	2.20	SCS Type II 24-hr

Subbasin Summary

SN	Subbasin ID	Area (ac)	Weighted Curve Number	Total Rainfall (in)	Total Runoff (in)	Total Runoff Volume (ac-in)	Peak Runoff (cfs)	Time of Concentration (days hh:mm:ss)
1	Sub-PreDevelopment	40.99	76.88	2.20	0.56	22.75	17.90	0 00:29:07

Node Summary

SN	Element ID	Element Type	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Initial Water Elevation (ft)	Surcharge Elevation (ft)	Ponded Area (ft²)	Peak Inflow (cfs)	Max HGL Elevation Attained (ft)	Max Surcharge Depth Attained (ft)	Min Freeboard Attained (ft)	Time of Peak Flooding Occurrence (days hh:mm)	Total Flooded Volume (ac-in)	Total Time Flooded (min)
1	Out-Pre	Outfall	0.00					0.00	0.00					

Subbasin Hydrology

Subbasin : Sub-PreDevelopment

Input Data

Area (ac) 40.99
Weighted Curve Number 76.88
Rain Gage ID ..... Rain Gage-01

Composite Curve Number

Soil/Surface Description	Area (acres)	Soil Group	Curve Number
Legumes, contoured, Good	35.26	C	78.00
Woods, Good	5.73	C	70.00
Composite Area & Weighted CN	40.99		76.88

Time of Concentration

TOC Method : SCS TR-55

Sheet Flow Equation :

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

Where :

Tc = Time of Concentration (hr)
n = Manning's roughness
Lf = Flow Length (ft)
P = 2 yr, 24 hr Rainfall (inches)
Sf = Slope (ft/ft)

Shallow Concentrated Flow Equation :

V = 16.1345 * (Sf^0.5) (unpaved surface)
V = 20.3282 * (Sf^0.5) (paved surface)
V = 15.0 * (Sf^0.5) (grassed waterway surface)
V = 10.0 * (Sf^0.5) (nearly bare & untilled surface)
V = 9.0 * (Sf^0.5) (cultivated straight rows surface)
V = 7.0 * (Sf^0.5) (short grass pasture surface)
V = 5.0 * (Sf^0.5) (woodland surface)
V = 2.5 * (Sf^0.5) (forest w/heavy litter surface)
Tc = (Lf / V) / (3600 sec/hr)

Where:

Tc = Time of Concentration (hr)
Lf = Flow Length (ft)
V = Velocity (ft/sec)
Sf = Slope (ft/ft)

Channel Flow Equation :

V = (1.49 * (R^(2/3)) * (Sf^0.5)) / n
R = Aq / Wp
Tc = (Lf / V) / (3600 sec/hr)

Where :

Tc = Time of Concentration (hr)
Lf = Flow Length (ft)
R = Hydraulic Radius (ft)
Aq = Flow Area (ft^2)
Wp = Wetted Perimeter (ft)
V = Velocity (ft/sec)
Sf = Slope (ft/ft)
n = Manning's roughness

Sheet Flow Computations	Subarea A	Subarea B	Subarea C
Manning's Roughness :	.22	0.00	0.00
Flow Length (ft) :	100	0.00	0.00
Slope (%) :	0.60	0.00	0.00
2 yr, 24 hr Rainfall (in) :	2.60	0.00	0.00
Velocity (ft/sec) :	0.07	0.00	0.00
Computed Flow Time (min) :	23.90	0.00	0.00

Shallow Concentrated Flow Computations	Subarea A	Subarea B	Subarea C
Flow Length (ft) :	628	0.00	0.00
Slope (%) :	1.67	0.00	0.00
Surface Type :	Unpaved	Unpaved	Unpaved
Velocity (ft/sec) :	2.09	0.00	0.00
Computed Flow Time (min) :	5.01	0.00	0.00

Channel Flow Computations	Subarea A	Subarea B	Subarea C
Manning's Roughness :	.08	0.00	0.00
Flow Length (ft) :	186	0.00	0.00
Channel Slope (%) :	3.60	0.00	0.00
Cross Section Area (ft²) :	8	0.00	0.00
Wetted Perimeter (ft) :	1.0	0.00	0.00
Velocity (ft/sec) :	14.14	0.00	0.00
Computed Flow Time (min) :	0.22	0.00	0.00

Total TOC (min) 29.13

Subbasin Runoff Results

Total Rainfall (in) 2.20
Total Runoff (in) 0.56
Peak Runoff (cfs) 17.90
Weighted Curve Number 76.88
Time of Concentration (days hh:mm:ss) 0 00:29:08

Project Description

File Name ..... 2015-09-16_PREDEVELOPMENT.SPF

Project Options

Flow Units ..... CFS
Elevation Type ..... Elevation
Hydrology Method ..... SCS TR-55
Time of Concentration (TOC) Method ..... SCS TR-55
Link Routing Method ..... Hydrodynamic
Enable Overflow Ponding at Nodes ..... YES
Skip Steady State Analysis Time Periods ..... NO

Analysis Options

Start Analysis On ..... Sep 16, 2015 00:00:00
End Analysis On ..... Sep 17, 2015 00:00:00
Start Reporting On ..... Sep 16, 2015 00:00:00
Antecedent Dry Days ..... 1 days
Runoff (Dry Weather) Time Step ..... 0 01:00:00 days hh:mm:ss
Runoff (Wet Weather) Time Step ..... 0 00:05:00 days hh:mm:ss
Reporting Time Step ..... 0 00:05:00 days hh:mm:ss
Routing Time Step ..... 30 seconds

Number of Elements

	Qty
Rain Gages	1
Subbasins	1
Nodes	1
Junctions	0
Outfalls	1
Flow Diversions	0
Inlets	0
Storage Nodes	0
Links	0
Channels	0
Pipes	0
Pumps	0
Orifices	0
Weirs	0
Outlets	0
Pollutants	0
Land Uses	0

Rainfall Details

SN	Rain Gage ID	Data Source	Data Source ID	Rainfall Type	Rain Units	State	County	Return Period (years)	Rainfall Depth (inches)	Rainfall Distribution
1	Rain Gage-01	Time Series	TS-002	Cumulative	inches	Ohio	Franklin	2	2.60	SCS Type II 24-hr

Subbasin Summary

SN	Subbasin ID	Area (ac)	Weighted Curve Number	Total Rainfall (in)	Total Runoff (in)	Total Runoff Volume (ac-in)	Peak Runoff (cfs)	Time of Concentration (days hh:mm:ss)
1	Sub-PreDevelopment	40.99	76.88	2.60	0.80	32.71	27.21	0 00:29:07

Node Summary

SN	Element ID	Element Type	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Initial Water Elevation (ft)	Surcharge Elevation (ft)	Ponded Area (ft²)	Peak Inflow (cfs)	Max HGL Elevation Attained (ft)	Max Surcharge Depth Attained (ft)	Min Freeboard Attained (ft)	Time of Peak Flooding Occurrence (days hh:mm)	Total Flooded Volume (ac-in)	Total Time Flooded (min)
1	Out-Pre	Outfall	0.00					0.00	0.00					

Project Description

File Name ..... 2015-09-16_PREDEVELOPMENT.SPF

Project Options

Flow Units ..... CFS
Elevation Type ..... Elevation
Hydrology Method ..... SCS TR-55
Time of Concentration (TOC) Method ..... SCS TR-55
Link Routing Method ..... Hydrodynamic
Enable Overflow Ponding at Nodes ..... YES
Skip Steady State Analysis Time Periods ..... NO

Analysis Options

Start Analysis On ..... Sep 16, 2015 00:00:00
End Analysis On ..... Sep 17, 2015 00:00:00
Start Reporting On ..... Sep 16, 2015 00:00:00
Antecedent Dry Days ..... 1 days
Runoff (Dry Weather) Time Step ..... 0 01:00:00 days hh:mm:ss
Runoff (Wet Weather) Time Step ..... 0 00:05:00 days hh:mm:ss
Reporting Time Step ..... 0 00:05:00 days hh:mm:ss
Routing Time Step ..... 30 seconds

Number of Elements

	Qty
Rain Gages	1
Subbasins	1
Nodes	1
Junctions	0
Outfalls	1
Flow Diversions	0
Inlets	0
Storage Nodes	0
Links	0
Channels	0
Pipes	0
Pumps	0
Orifices	0
Weirs	0
Outlets	0
Pollutants	0
Land Uses	0

Rainfall Details

SN	Rain Gage ID	Data Source	Data Source ID	Rainfall Type	Rain Units	State	County	Return Period (years)	Rainfall Depth (inches)	Rainfall Distribution
1	Rain Gage-01	Time Series	TS-005	Cumulative	inches	Ohio	Franklin	5	3.20	SCS Type II 24-hr

Subbasin Summary

SN	Subbasin ID	Area (ac)	Weighted Curve Number	Total Rainfall (in)	Total Runoff (in)	Total Runoff Volume (ac-in)	Peak Runoff (cfs)	Time of Concentration (days hh:mm:ss)
1	Sub-PreDevelopment	40.99	76.88	3.20	1.21	49.39	42.87	0 00:29:07

Node Summary

SN	Element ID	Element Type	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Initial Water Elevation (ft)	Surcharge Elevation (ft)	Ponded Area (ft²)	Peak Inflow (cfs)	Max HGL Elevation Attained (ft)	Max Surcharge Depth Attained (ft)	Min Freeboard Attained (ft)	Time of Peak Flooding Occurrence (days hh:mm)	Total Flooded Volume (ac-in)	Total Time Flooded (min)
1	Out-Pre	Outfall	0.00					0.00	0.00					

Project Description

File Name ..... 2015-09-16_PREDEVELOPMENT.SPF

Project Options

Flow Units ..... CFS
Elevation Type ..... Elevation
Hydrology Method ..... SCS TR-55
Time of Concentration (TOC) Method ..... SCS TR-55
Link Routing Method ..... Hydrodynamic
Enable Overflow Ponding at Nodes ..... YES
Skip Steady State Analysis Time Periods ..... NO

Analysis Options

Start Analysis On ..... Sep 16, 2015 00:00:00
End Analysis On ..... Sep 17, 2015 00:00:00
Start Reporting On ..... Sep 16, 2015 00:00:00
Antecedent Dry Days ..... 1 days
Runoff (Dry Weather) Time Step ..... 0 01:00:00 days hh:mm:ss
Runoff (Wet Weather) Time Step ..... 0 00:05:00 days hh:mm:ss
Reporting Time Step ..... 0 00:05:00 days hh:mm:ss
Routing Time Step ..... 30 seconds

Number of Elements

	Qty
Rain Gages	1
Subbasins	1
Nodes	1
Junctions	0
Outfalls	1
Flow Diversions	0
Inlets	0
Storage Nodes	0
Links	0
Channels	0
Pipes	0
Pumps	0
Orifices	0
Weirs	0
Outlets	0
Pollutants	0
Land Uses	0

Rainfall Details

SN	Rain Gage ID	Data Source	Data Source ID	Rainfall Type	Rain Units	State	County	Return Period (years)	Rainfall Depth (inches)	Rainfall Distribution
1	Rain Gage-01	Time Series	TS-010	Cumulative	inches	Ohio	Franklin	10	3.70	SCS Type II 24-hr

Subbasin Summary

SN	Subbasin ID	Area (ac)	Weighted Curve Number	Total Rainfall (in)	Total Runoff (in)	Total Runoff Volume (ac-in)	Peak Runoff (cfs)	Time of Concentration (days hh:mm:ss)
1	Sub-PreDevelopment	40.99	76.88	3.70	1.57	64.44	56.97	0 00:29:07

Node Summary

SN	Element ID	Element Type	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Initial Water Elevation (ft)	Surcharge Elevation (ft)	Ponded Area (ft²)	Peak Inflow (cfs)	Max HGL Elevation Attained (ft)	Max Surcharge Depth Attained (ft)	Min Freeboard Attained (ft)	Time of Peak Flooding Occurrence (days hh:mm)	Total Flooded Volume (ac-in)	Total Time Flooded (min)
1	Out-Pre	Outfall	0.00					0.00	0.00					

Project Description

File Name ..... 2015-09-16_PREDEVELOPMENT.SPF

Project Options

Flow Units ..... CFS
Elevation Type ..... Elevation
Hydrology Method ..... SCS TR-55
Time of Concentration (TOC) Method ..... SCS TR-55
Link Routing Method ..... Hydrodynamic
Enable Overflow Ponding at Nodes ..... YES
Skip Steady State Analysis Time Periods ..... NO

Analysis Options

Start Analysis On ..... Sep 16, 2015 00:00:00
End Analysis On ..... Sep 17, 2015 00:00:00
Start Reporting On ..... Sep 16, 2015 00:00:00
Antecedent Dry Days ..... 1 days
Runoff (Dry Weather) Time Step ..... 0 01:00:00 days hh:mm:ss
Runoff (Wet Weather) Time Step ..... 0 00:05:00 days hh:mm:ss
Reporting Time Step ..... 0 00:05:00 days hh:mm:ss
Routing Time Step ..... 30 seconds

Number of Elements

	Qty
Rain Gages	1
Subbasins	1
Nodes	1
Junctions	0
Outfalls	1
Flow Diversions	0
Inlets	0
Storage Nodes	0
Links	0
Channels	0
Pipes	0
Pumps	0
Orifices	0
Weirs	0
Outlets	0
Pollutants	0
Land Uses	0

Rainfall Details

SN	Rain Gage ID	Data Source	Data Source ID	Rainfall Type	Rain Units	State	County	Return Period (years)	Rainfall Depth (inches)	Rainfall Distribution
1	Rain Gage-01	Time Series	TS-025	Cumulative	inches	Ohio	Franklin	25	4.40	SCS Type II 24-hr

Subbasin Summary

SN	Subbasin ID	Area (ac)	Weighted Curve Number	Total Rainfall (in)	Total Runoff (in)	Total Runoff Volume (ac-in)	Peak Runoff (cfs)	Time of Concentration (days hh:mm:ss)
1	Sub-PreDevelopment	40.99	76.88	4.40	2.12	86.90	77.69	0 00:29:07

Node Summary

SN	Element ID	Element Type	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Initial Water Elevation (ft)	Surcharge Elevation (ft)	Ponded Area (ft²)	Peak Inflow (cfs)	Max HGL Elevation Attained (ft)	Max Surcharge Depth Attained (ft)	Min Freeboard Attained (ft)	Time of Peak Flooding Occurrence (days hh:mm)	Total Flooded Volume (ac-in)	Total Time Flooded (min)
1	Out-Pre	Outfall	0.00					0.00	0.00					

Project Description

File Name ..... 2015-09-16_PREDEVELOPMENT.SPF

Project Options

Flow Units ..... CFS
Elevation Type ..... Elevation
Hydrology Method ..... SCS TR-55
Time of Concentration (TOC) Method ..... SCS TR-55
Link Routing Method ..... Hydrodynamic
Enable Overflow Ponding at Nodes ..... YES
Skip Steady State Analysis Time Periods ..... NO

Analysis Options

Start Analysis On ..... Sep 16, 2015 00:00:00
End Analysis On ..... Sep 17, 2015 00:00:00
Start Reporting On ..... Sep 16, 2015 00:00:00
Antecedent Dry Days ..... 1 days
Runoff (Dry Weather) Time Step ..... 0 01:00:00 days hh:mm:ss
Runoff (Wet Weather) Time Step ..... 0 00:05:00 days hh:mm:ss
Reporting Time Step ..... 0 00:05:00 days hh:mm:ss
Routing Time Step ..... 30 seconds

Number of Elements

	Qty
Rain Gages	1
Subbasins	1
Nodes	1
Junctions	0
Outfalls	1
Flow Diversions	0
Inlets	0
Storage Nodes	0
Links	0
Channels	0
Pipes	0
Pumps	0
Orifices	0
Weirs	0
Outlets	0
Pollutants	0
Land Uses	0

Rainfall Details

SN	Rain Gage ID	Data Source	Data Source ID	Rainfall Type	Rain Units	State	County	Return Period (years)	Rainfall Depth (inches)	Rainfall Distribution
1	Rain Gage-01	Time Series	TS-050	Cumulative	inches	Ohio	Franklin	50	5.00	SCS Type II 24-hr

Subbasin Summary

SN	Subbasin ID	Area (ac)	Weighted Curve Number	Total Rainfall (in)	Total Runoff (in)	Total Runoff Volume (ac-in)	Peak Runoff (cfs)	Time of Concentration (days hh:mm:ss)
1	Sub-PreDevelopment	40.99	76.88	5.00	2.61	107.07	96.22	0 00:29:07

Node Summary

SN	Element ID	Element Type	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Initial Water Elevation (ft)	Surcharge Elevation (ft)	Ponded Area (ft²)	Peak Inflow (cfs)	Max HGL Elevation Attained (ft)	Max Surcharge Depth Attained (ft)	Min Freeboard Attained (ft)	Time of Peak Flooding Occurrence (days hh:mm)	Total Flooded Volume (ac-in)	Total Time Flooded (min)
1	Out-Pre	Outfall	0.00					0.00	0.00					

Project Description

File Name ..... 2015-09-16_PREDEVELOPMENT.SPF

Project Options

Flow Units ..... CFS
Elevation Type ..... Elevation
Hydrology Method ..... SCS TR-55
Time of Concentration (TOC) Method ..... SCS TR-55
Link Routing Method ..... Hydrodynamic
Enable Overflow Ponding at Nodes ..... YES
Skip Steady State Analysis Time Periods ..... NO

Analysis Options

Start Analysis On ..... Sep 16, 2015 00:00:00
End Analysis On ..... Sep 17, 2015 00:00:00
Start Reporting On ..... Sep 16, 2015 00:00:00
Antecedent Dry Days ..... 1 days
Runoff (Dry Weather) Time Step ..... 0 01:00:00 days hh:mm:ss
Runoff (Wet Weather) Time Step ..... 0 00:05:00 days hh:mm:ss
Reporting Time Step ..... 0 00:05:00 days hh:mm:ss
Routing Time Step ..... 30 seconds

Number of Elements

	Qty
Rain Gages	1
Subbasins	1
Nodes	1
Junctions	0
Outfalls	1
Flow Diversions	0
Inlets	0
Storage Nodes	0
Links	0
Channels	0
Pipes	0
Pumps	0
Orifices	0
Weirs	0
Outlets	0
Pollutants	0
Land Uses	0

Rainfall Details

SN	Rain Gage ID	Data Source	Data Source ID	Rainfall Type	Rain Units	State	County	Return Period (years)	Rainfall Depth (inches)	Rainfall Distribution
1	Rain Gage-01	Time Series	TS-100	Cumulative	inches	Ohio	Franklin	100	5.60	SCS Type II 24-hr

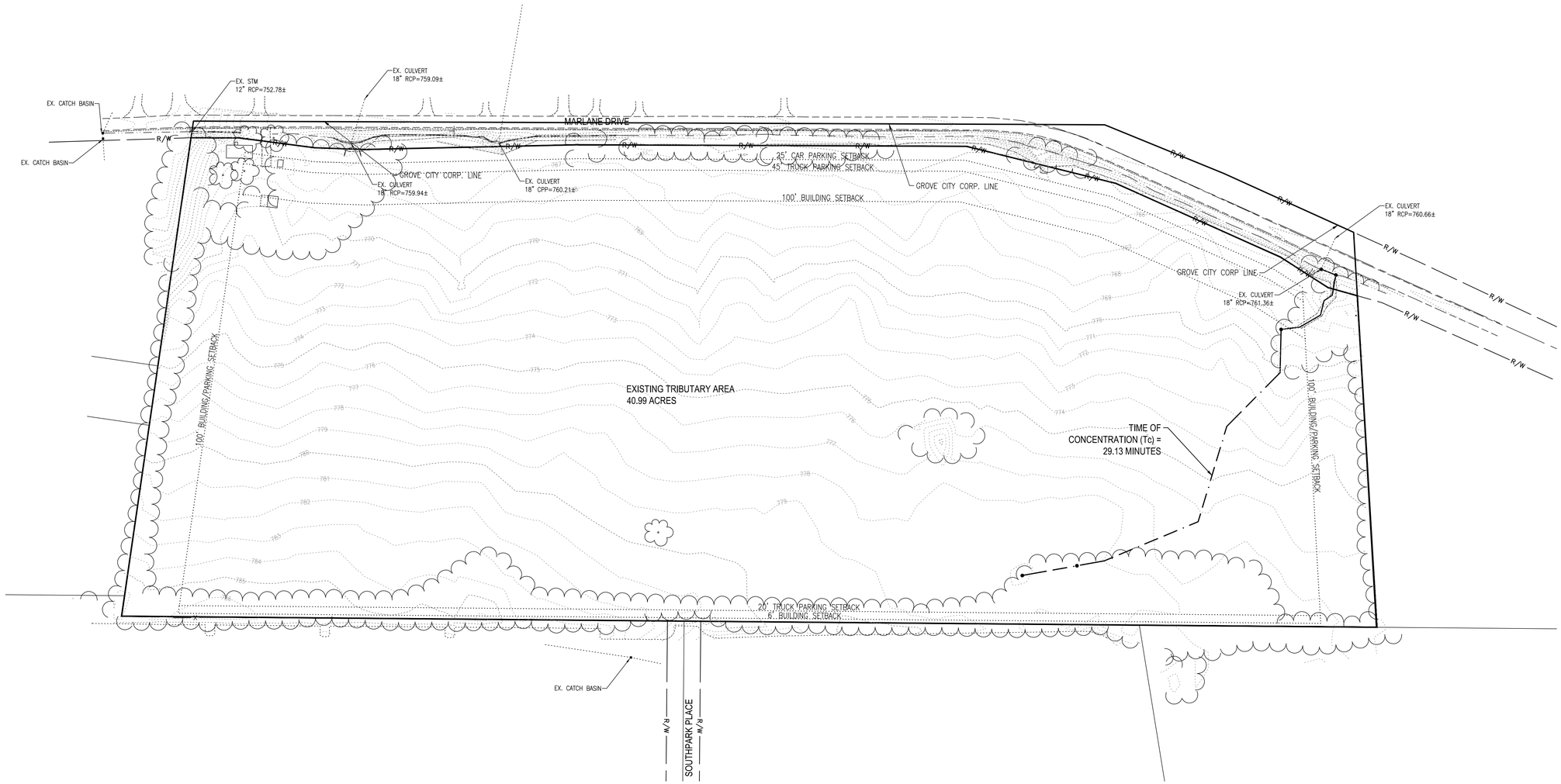
Subbasin Summary

SN	Subbasin ID	Area (ac)	Weighted Curve Number	Total Rainfall (in)	Total Runoff (in)	Total Runoff Volume (ac-in)	Peak Runoff (cfs)	Time of Concentration (days hh:mm:ss)
1	Sub-PreDevelopment	40.99	76.88	5.60	3.12	127.93	115.04	0 00:29:07

Node Summary

SN	Element ID	Element Type	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Initial Water Elevation (ft)	Surcharge Elevation (ft)	Ponded Area (ft²)	Peak Inflow (cfs)	Max HGL Elevation Attained (ft)	Max Surcharge Depth Attained (ft)	Min Freeboard Attained (ft)	Time of Peak Flooding Occurrence (days hh:mm)	Total Flooded Volume (ac-in)	Total Time Flooded (min)
1	Out-Pre	Outfall	0.00					0.00	0.00					

Appendix C. Pre-Development Map



0 100 200
HORIZONTAL SCALE
IN FEET

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59 Grant Street
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DEVELOPMENT PLANS FOR

PROLOGIS SOUTH PARK

PREDEVELOPMENT TRIBUTARY MAP

APPENDIX C

NO.	PLAN ISSUE/REVISION	DATE
1	REVISED PER CITY COMMENTS	10/22/2015

CITY PROJECT NUMBER: 201509280070 | JOB NUMBER: 15037.01

DRAWN: AES | CHECKED: AES | DATE: 09/28/2015

9/16/2015 1:32 PM j:\2015\15037 prologis capital park south\01\dwg\exhibits\15037.01_predevelopment trib map.dwg aspencer

Appendix D. Post Development SSA Output

Project Description

File Name ..... 2015-10-21_DESIGN.SPF

Project Options

Flow Units ..... CFS
Elevation Type ..... Elevation
Hydrology Method ..... SCS TR-55
Time of Concentration (TOC) Method ..... SCS TR-55
Link Routing Method ..... Hydrodynamic
Enable Overflow Ponding at Nodes ..... YES
Skip Steady State Analysis Time Periods ..... NO

Analysis Options

Start Analysis On ..... Sep 27, 2015 00:00:00
End Analysis On ..... Sep 28, 2015 00:00:00
Start Reporting On ..... Sep 27, 2015 00:00:00
Antecedent Dry Days ..... 0 days
Runoff (Dry Weather) Time Step ..... 0 01:00:00 days hh:mm:ss
Runoff (Wet Weather) Time Step ..... 0 00:05:00 days hh:mm:ss
Reporting Time Step ..... 0 00:05:00 days hh:mm:ss
Routing Time Step ..... 30 seconds

Number of Elements

	Qty
Rain Gages	1
Subbasins	91
Nodes	130
Junctions	128
Outfalls	1
Flow Diversions	0
Inlets	0
Storage Nodes	1
Links	131
Channels	0
Pipes	128
Pumps	0
Orifices	1
Weirs	2
Outlets	0
Pollutants	0
Land Uses	0

Rainfall Details

SN	Rain Gage ID	Data Source	Data Source ID	Rainfall Type	Rain Units	State	County	Return Period (years)	Rainfall Depth (inches)	Rainfall Distribution
1	Rain Gage-01	Time Series	TS-001	Cumulative	inches	Ohio	Franklin	1	2.20	SCS Type II 24-hr

Subbasin Summary

SN	Subbasin ID	Area (ac)	Weighted Curve Number	Total Rainfall (in)	Total Runoff (in)	Total Runoff Volume (ac-in)	Peak Runoff (cfs)	Time of Concentration (days hh:mm:ss)
1	Sub-D04	0.10	98.00	2.20	1.96	0.20	0.29	0 00:05:00
2	Sub-D05	0.18	98.00	2.20	1.97	0.35	0.51	0 00:05:00
3	Sub-D06	0.17	98.00	2.20	1.97	0.33	0.49	0 00:05:00
4	Sub-D08	0.41	98.00	2.20	1.97	0.81	1.16	0 00:05:00
5	Sub-D09	0.33	98.00	2.20	1.97	0.65	0.94	0 00:05:00
6	Sub-D10	0.33	98.00	2.20	1.97	0.65	0.94	0 00:05:00
7	Sub-D11	0.33	98.00	2.20	1.97	0.65	0.94	0 00:05:00
8	Sub-D12	0.22	98.00	2.20	1.97	0.43	0.61	0 00:05:00
9	Sub-D13	0.18	98.00	2.20	1.97	0.35	0.51	0 00:05:00
10	Sub-D14	0.22	98.00	2.20	1.97	0.43	0.61	0 00:05:00
11	Sub-D15	0.12	98.00	2.20	1.97	0.24	0.34	0 00:05:00
12	Sub-D16	0.06	98.00	2.20	1.95	0.12	0.16	0 00:05:00
13	Sub-D17	0.16	98.00	2.20	1.97	0.32	0.45	0 00:05:00
14	Sub-D18	0.54	98.00	2.20	1.97	1.06	1.52	0 00:05:00
15	Sub-D19	0.33	98.00	2.20	1.97	0.65	0.94	0 00:05:00
16	Sub-D20	0.33	98.00	2.20	1.97	0.65	0.94	0 00:05:00
17	Sub-D21	0.54	98.00	2.20	1.97	1.06	1.52	0 00:05:00
18	Sub-D22	0.14	98.00	2.20	1.97	0.28	0.40	0 00:05:00
19	Sub-D23	0.06	98.00	2.20	1.95	0.12	0.16	0 00:05:00
20	Sub-D24	0.28	98.00	2.20	1.97	0.55	0.80	0 00:05:00
21	Sub-D25	0.25	98.00	2.20	1.97	0.49	0.71	0 00:05:00
22	Sub-D27	0.18	98.00	2.20	1.97	0.35	0.51	0 00:05:00
23	Sub-D28	0.13	98.00	2.20	1.97	0.26	0.36	0 00:05:00
24	Sub-D29	0.78	98.00	2.20	1.97	1.54	2.21	0 00:05:00
25	Sub-D30	0.48	98.00	2.20	1.97	0.95	1.36	0 00:05:00
26	Sub-D31	0.50	98.00	2.20	1.97	0.99	1.41	0 00:05:00
27	Sub-D32	0.52	98.00	2.20	1.97	1.03	1.46	0 00:05:00
28	Sub-D33	0.53	98.00	2.20	1.97	1.05	1.50	0 00:05:00
29	Sub-D34	0.56	98.00	2.20	1.97	1.10	1.59	0 00:05:00
30	Sub-D35	0.34	98.00	2.20	1.97	0.67	0.96	0 00:05:00
31	Sub-D36	0.11	98.00	2.20	1.97	0.22	0.31	0 00:05:00
32	Sub-D37	0.14	98.00	2.20	1.97	0.28	0.40	0 00:05:00
33	Sub-D38	0.77	98.00	2.20	1.97	1.52	2.17	0 00:05:00
34	Sub-D39	0.52	98.00	2.20	1.97	1.03	1.46	0 00:05:00
35	Sub-D40	0.52	98.00	2.20	1.97	1.03	1.46	0 00:05:00
36	Sub-D41	0.52	98.00	2.20	1.97	1.03	1.46	0 00:05:00
37	Sub-D42	0.51	98.00	2.20	1.97	1.01	1.45	0 00:05:00
38	Sub-D43	0.43	98.00	2.20	1.97	0.85	1.21	0 00:05:00
39	Sub-D44	0.70	98.00	2.20	1.97	1.38	1.97	0 00:05:00
40	Sub-D45	0.31	98.00	2.20	1.97	0.61	0.87	0 00:05:00
41	Sub-D46	0.21	98.00	2.20	1.97	0.41	0.60	0 00:05:00
42	Sub-D47	0.19	98.00	2.20	1.97	0.37	0.54	0 00:05:00
43	Sub-D48	0.17	98.00	2.20	1.97	0.33	0.49	0 00:05:00
44	Sub-D49	0.15	98.00	2.20	1.97	0.30	0.42	0 00:05:00
45	Sub-D50	0.19	98.00	2.20	1.97	0.37	0.54	0 00:05:00
46	Sub-D51	0.22	98.00	2.20	1.97	0.43	0.61	0 00:05:00
47	Sub-D52	0.16	98.00	2.20	1.97	0.32	0.45	0 00:05:00
48	Sub-D53	0.19	98.00	2.20	1.97	0.37	0.54	0 00:05:00
49	Sub-D54	0.27	98.00	2.20	1.97	0.53	0.76	0 00:05:00
50	Sub-D55	0.24	98.00	2.20	1.97	0.47	0.69	0 00:05:00
51	Sub-D56	0.09	98.00	2.20	1.96	0.18	0.25	0 00:05:00
52	Sub-D58	0.61	98.00	2.20	1.97	1.20	1.72	0 00:05:00
53	Sub-D60	0.60	98.00	2.20	1.97	1.18	1.70	0 00:05:00
54	Sub-D61	0.12	98.00	2.20	1.97	0.24	0.34	0 00:05:00
55	Sub-POND	1.29	80.00	2.20	0.69	0.89	1.36	0 00:05:00
56	Sub-RD01	0.68	98.00	2.20	1.97	1.34	1.92	0 00:05:00
57	Sub-RD02	0.42	98.00	2.20	1.97	0.83	1.19	0 00:05:00
58	Sub-RD03	0.38	98.00	2.20	1.97	0.75	1.07	0 00:05:00
59	Sub-RD04	0.42	98.00	2.20	1.97	0.83	1.19	0 00:05:00
60	Sub-RD05	0.29	98.00	2.20	1.97	0.57	0.81	0 00:05:00
61	Sub-RD06	0.26	98.00	2.20	1.97	0.51	0.74	0 00:05:00
62	Sub-RD07	0.37	98.00	2.20	1.97	0.73	1.05	0 00:05:00
63	Sub-RD08	0.40	98.00	2.20	1.97	0.79	1.14	0 00:05:00
64	Sub-RD09	0.47	98.00	2.20	1.97	0.93	1.32	0 00:05:00
65	Sub-RD10	0.47	98.00	2.20	1.97	0.93	1.32	0 00:05:00
66	Sub-RD11	0.40	98.00	2.20	1.97	0.79	1.14	0 00:05:00
67	Sub-RD12	0.37	98.00	2.20	1.97	0.73	1.05	0 00:05:00
68	Sub-RD13	0.29	98.00	2.20	1.97	0.57	0.81	0 00:05:00
69	Sub-RD14	0.29	98.00	2.20	1.97	0.57	0.81	0 00:05:00
70	Sub-RD15	0.42	98.00	2.20	1.97	0.83	1.19	0 00:05:00
71	Sub-RD16	0.38	98.00	2.20	1.97	0.75	1.07	0 00:05:00
72	Sub-RD17	0.42	98.00	2.20	1.97	0.83	1.19	0 00:05:00
73	Sub-RD18	0.68	98.00	2.20	1.97	1.34	1.92	0 00:05:00
74	Sub-RD19	0.68	98.00	2.20	1.97	1.34	1.92	0 00:05:00
75	Sub-RD20	0.42	98.00	2.20	1.97	0.83	1.19	0 00:05:00
76	Sub-RD21	0.38	98.00	2.20	1.97	0.75	1.07	0 00:05:00
77	Sub-RD22	0.42	98.00	2.20	1.97	0.83	1.19	0 00:05:00
78	Sub-RD23	0.29	98.00	2.20	1.97	0.57	0.81	0 00:05:00
79	Sub-RD24	0.29	98.00	2.20	1.97	0.57	0.81	0 00:05:00
80	Sub-RD25	0.37	98.00	2.20	1.97	0.73	1.05	0 00:05:00
81	Sub-RD26	0.40	98.00	2.20	1.97	0.79	1.14	0 00:05:00
82	Sub-RD27	0.47	98.00	2.20	1.97	0.93	1.32	0 00:05:00

Subbasin Summary

SN	Subbasin ID	Area (ac)	Weighted Curve Number	Total Rainfall (in)	Total Runoff (in)	Total Runoff Volume (ac-in)	Peak Runoff (cfs)	Time of Concentration (days hh:mm:ss)
83	Sub-RD29	0.47	98.00	2.20	1.97	0.93	1.32	0 00:05:00
84	Sub-RD30	0.40	98.00	2.20	1.97	0.79	1.14	0 00:05:00
85	Sub-RD31	0.37	98.00	2.20	1.97	0.73	1.05	0 00:05:00
86	Sub-RD32	0.29	98.00	2.20	1.97	0.57	0.81	0 00:05:00
87	Sub-RD33	0.29	98.00	2.20	1.97	0.57	0.81	0 00:05:00
88	Sub-RD34	0.42	98.00	2.20	1.97	0.83	1.19	0 00:05:00
89	Sub-RD35	0.38	98.00	2.20	1.97	0.75	1.07	0 00:05:00
90	Sub-RD36	0.42	98.00	2.20	1.97	0.83	1.19	0 00:05:00
91	Sub-RD37	0.68	98.00	2.20	1.97	1.34	1.92	0 00:05:00

Node Summary

SN	Element ID	Element Type	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Initial Water Elevation (ft)	Surcharge Elevation (ft)	Ponded Area (ft²)	Peak Inflow (cfs)	Max HGL Elevation Attained (ft)	Max Surcharge Depth Attained (ft)	Min Freeboard Attained (ft)	Time of Peak Flooding Occurrence (days hh:mm)	Total Flooded Volume (ac-in)	Total Time Flooded (min)
1	(100)	Junction	773.42	772.06	773.42	772.06	0.00	4.11	774.55	0.00	0.37	0 00:00	0.00	0.00
2	(101)	Junction	774.17	772.54	774.17	772.54	0.00	2.24	775.03	0.00	0.39	0 00:00	0.00	0.00
3	(102)	Junction	774.94	773.05	774.94	773.05	0.00	1.06	775.55	0.00	0.39	0 00:00	0.00	0.00
4	(106)	Junction	772.82	771.46	772.82	771.46	0.00	2.74	773.70	0.00	0.62	0 00:00	0.00	0.00
5	(107)	Junction	773.57	771.94	773.57	771.94	0.00	1.64	774.27	0.00	0.55	0 00:00	0.00	0.00
6	(108)	Junction	774.34	772.44	774.34	772.44	0.00	0.81	774.84	0.00	0.50	0 00:00	0.00	0.00
7	(112)	Junction	773.20	771.84	773.20	771.84	0.00	3.45	774.21	0.00	0.49	0 00:00	0.00	0.00
8	(113)	Junction	773.95	772.32	773.95	772.32	0.00	2.43	774.86	0.00	0.34	0 00:00	0.00	0.00
9	(114)	Junction	774.72	772.82	774.72	772.82	0.00	1.31	775.42	0.00	0.30	0 00:00	0.00	0.00
10	(119)	Junction	771.40	770.04	771.40	770.04	0.00	7.95	772.90	0.00	0.00	0 22:29	0.81	13.00
11	(120)	Junction	772.15	770.52	772.15	770.52	0.00	2.24	773.08	0.00	0.32	0 00:00	0.00	0.00
12	(121)	Junction	772.92	771.03	772.92	771.03	0.00	1.06	773.53	0.00	0.39	0 00:00	0.00	0.00
13	(125)	Junction	771.41	770.05	771.41	770.05	0.00	8.53	772.91	0.00	0.00	0 16:03	0.37	12.00
14	(126)	Junction	772.16	770.53	772.16	770.53	0.00	2.01	773.09	0.00	0.32	0 00:00	0.00	0.00
15	(127)	Junction	772.93	771.04	772.93	771.04	0.00	0.81	773.43	0.00	0.50	0 00:00	0.00	0.00
16	(131)	Junction	771.44	770.08	771.44	770.08	0.00	4.40	772.94	0.00	0.00	0 22:37	0.05	5.00
17	(132)	Junction	772.19	770.56	772.19	770.56	0.00	2.43	773.10	0.00	0.34	0 00:00	0.00	0.00
18	(133)	Junction	772.96	771.07	772.96	771.07	0.00	1.31	773.66	0.00	0.30	0 00:00	0.00	0.00
19	(137)	Junction	772.70	771.35	772.70	771.35	0.00	4.11	773.84	0.00	0.36	0 00:00	0.00	0.00
20	(138)	Junction	773.45	771.82	773.45	771.82	0.00	2.24	774.31	0.00	0.39	0 00:00	0.00	0.00
21	(139)	Junction	774.22	772.33	774.22	772.33	0.00	1.06	774.83	0.00	0.39	0 00:00	0.00	0.00
22	(143)	Junction	773.16	771.80	773.16	771.80	0.00	2.75	774.04	0.00	0.62	0 00:00	0.00	0.00
23	(144)	Junction	773.90	772.28	773.90	772.28	0.00	1.67	774.60	0.00	0.56	0 00:00	0.00	0.00
24	(145)	Junction	774.68	772.78	774.68	772.78	0.00	0.81	775.18	0.00	0.50	0 00:00	0.00	0.00
25	(149)	Junction	773.63	772.28	773.63	772.28	0.00	3.45	774.64	0.00	0.49	0 00:00	0.00	0.00
26	(150)	Junction	774.38	772.75	774.38	772.75	0.00	2.43	775.29	0.00	0.34	0 00:00	0.00	0.00
27	(151)	Junction	775.15	773.26	775.15	773.26	0.00	1.31	775.85	0.00	0.30	0 00:00	0.00	0.00
28	(81)	Junction	771.27	770.95	771.27	770.95	0.00	4.11	772.41	0.00	1.36	0 00:00	0.00	0.00
29	(82)	Junction	772.04	770.41	772.04	770.41	0.00	3.08	773.08	0.00	0.21	0 00:00	0.00	0.00
30	(83)	Junction	772.79	770.90	772.79	770.90	0.00	1.91	773.68	0.00	0.11	0 00:00	0.00	0.00
31	(87)	Junction	771.77	770.41	771.77	770.41	0.00	2.72	772.64	0.00	0.63	0 00:00	0.00	0.00
32	(88)	Junction	772.51	770.89	772.51	770.89	0.00	1.62	773.13	0.00	0.64	0 00:00	0.00	0.00
33	(89)	Junction	773.29	771.39	773.29	771.39	0.00	0.74	773.75	0.00	0.54	0 00:00	0.00	0.00
34	(94)	Junction	772.25	770.90	772.25	770.90	0.00	3.45	773.26	0.00	0.49	0 00:00	0.00	0.00
35	(95)	Junction	773.00	771.37	773.00	771.37	0.00	2.43	773.91	0.00	0.34	0 00:00	0.00	0.00
36	(96)	Junction	773.77	771.88	773.77	771.88	0.00	1.31	774.47	0.00	0.30	0 00:00	0.00	0.00
37	D02	Junction	767.94	771.00	770.00	771.00	0.00	1.37	769.99	0.00	2.05	0 00:00	0.00	0.00
38	D04	Junction	765.00	774.75	765.63	774.75	0.00	40.85	770.87	0.00	3.88	0 00:00	0.00	0.00
39	D05	Junction	765.84	775.40	765.84	776.16	225.00	41.54	775.42	0.02	0.00	0 22:13	0.01	0.00
40	D06	Junction	766.06	775.67	766.06	776.16	225.00	25.67	775.30	0.00	0.38	0 00:00	0.00	0.00
41	D07	Junction	766.37	774.54	766.37	774.54	0.00	25.23	771.35	0.00	3.19	0 00:00	0.00	0.00
42	D08	Junction	766.94	771.96	766.94	772.62	1945.00	25.15	771.84	0.00	0.12	0 00:00	0.00	0.00
43	D09	Junction	767.71	772.06	767.71	772.06	0.00	20.92	772.05	0.00	0.01	0 00:00	0.00	0.00
44	D10	Junction	767.49	772.16	767.49	772.16	0.00	18.07	772.16	0.00	0.00	0 12:01	0.00	1.00
45	D11	Junction	768.26	772.26	768.26	772.82	1945.00	17.26	772.31	0.00	0.19	0 00:00	0.00	0.00
46	D12	Junction	768.54	772.36	768.54	772.36	0.00	14.83	772.36	0.00	0.00	0 12:01	0.09	5.00
47	D13	Junction	768.79	776.05	768.79	776.99	4500.00	14.63	772.57	0.00	3.47	0 00:00	0.00	0.00
48	D14	Junction	769.17	775.76	769.17	776.84	3586.00	14.24	772.83	0.00	2.93	0 00:00	0.00	0.00
49	D15	Junction	769.34	776.79	769.34	777.40	223.00	13.51	772.96	0.00	3.82	0 00:00	0.00	0.00
50	D16	Junction	769.52	777.10	769.52	777.63	205.00	13.29	773.09	0.00	4.01	0 00:00	0.00	0.00
51	D17	Junction	769.79	776.75	769.79	778.07	4335.00	14.04	773.24	0.00	3.51	0 00:00	0.00	0.00
52	D18	Junction	770.77	772.45	770.77	773.27	1575.00	11.01	773.35	0.08	0.00	0 12:03	0.04	6.00
53	D19	Junction	771.05	772.55	771.05	773.27	1575.00	7.49	773.46	0.41	0.00	0 12:02	0.19	11.00
54	D20	Junction	771.32	772.65	771.32	773.37	1575.00	7.59	773.55	0.23	0.00	0 12:03	0.11	10.00
55	D21	Junction	771.60	772.75	771.60	772.75	0.00	3.40	773.57	0.00	0.03	0 00:00	0.00	0.00
56	D22	Junction	772.71	776.22	772.71	776.22	0.00	1.95	773.58	0.00	2.64	0 00:00	0.00	0.00
57	D23	Junction	773.26	776.70	773.26	776.70	0.00	1.58	773.80	0.00	2.89	0 00:00	0.00	0.00
58	D24	Junction	774.89	776.12	774.89	776.12	0.00	1.48	775.63	0.00	0.49	0 00:00	0.00	0.00
59	D25	Junction	776.33	776.44	776.33	776.44	0.00	0.70	776.73	0.00	0.60	0 00:00	0.00	0.00
60	D27	Junction	765.65	773.41	765.65	774.80	2500.00	169.45	776.88	3.47	0.00	0 18:53	0.54	2.00
61	D28	Junction	765.72	773.41	765.72	774.80	2500.00	507.06	784.70	11.29	0.00	0 18:52	3.04	3.00
62	D29	Junction	766.20	772.38	766.20	774.80	100300.00	126.17	773.38	1.00	0.00	0 18:53	3.37	8.00
63	D30	Junction	766.47	772.62	766.47	773.17	4064.00	130.07	774.76	2.14	0.00	0 16:39	1.97	29.00
64	D31	Junction	766.75	772.72	766.75	773.27	4064.00	140.94	773.61	0.90	0.00	0 16:02	1.41	23.00
65	D32	Junction	767.02	772.82	767.02	773.37	4064.00	51.08	772.97	0.15	0.00	0 16:02	0.44	15.00
66	D33	Junction	767.30	772.92	767.30	773.47	4064.00	57.42	772.96	0.04	0.00	0 16:40	0.07	7.00
67	D34	Junction	767.57	773.02	767.57	773.02	0.00	36.87	773.02	0.00	0.00	0 16:03	0.05	0.00
68	D35	Junction	768.20	773.46	768.20	773.70	200.00	36.82	773.59	0.13	0.00	0 16:03	0.02	0.00
69	D36	Junction	768.41	776.28	768.41	776.49	212.00	34.32	772.90	0.00	3.38	0 00:00	0.00	0.00
70	D37	Junction	768.49	776.22	768.49	776.49	241.00	22.63	772.87	0.00	3.34	0 00:00	0.00	0.00
71	D38	Junction	768.85	772.65	768.85	776.47	131026.00	21.35	772.85	0.00	0.15	0 00:00	0.00	0.00
72	D39	Junction	769.14	772.79	769.14	772.79	0.00	17.64	772.79	0.00	0.00	0 12:01	1.75	24.00
73	D40	Junction	769.92	772.89	769.92	773.44	3310.00	10.89	773.08	0.00	0.42	0 00:00	0.00	0.00
74	D41	Junction	770.19	772.99	770.19	773.54	3089.00	9.61	773.16	0.17	0.00	0 11:58	0.17	14.00
75	D42	Junction	770.47	773.09	770.47	773.64	3516.00	7.54	773.24	0.00	0.76	0 00:00	0.00	0.00
76	D43	Junction	770.74	773.19	770.74	773.19	0.00	5.71	773.19	0.00	0.00	0 12:02	0.48	10.00
77	D44	Junction	770.88	773.55	770.88	773.55	0.00	3.66	773.55	0.00	0.00	0 11:58	0.00	0.00
78	D45	Junction	772.52	776.40	772.52	777.27	7643.00	0.87	773.50	0.00	2.90	0 00:00	0.00	0.00
79	D46	Junction	771.93	776.01	771.93	776.01	0.00	2.71	772.93	0.00	3.08	0 00:00	0.00	0.00
80	D47	Junction	772.70	775.90	772.70	775.90	0.00	2.04	773.39	0.00	2.50	0 00:00	0.00	0.00
81	D48	Junction	773.08	774.35	773.08	774.35	0.00	1.42	773.70	0.00	0.65	0 00:00	0.00	0.00

Node Summary

SN	Element ID	Element Type	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Initial Water Elevation (ft)	Surcharge Elevation (ft)	Ponded Area (ft²)	Peak Inflow (cfs)	Max HGL Elevation Attained (ft)	Max Surcharge Depth Attained (ft)	Min Freeboard Attained (ft)	Time of Peak Flooding Occurrence (days hh:mm)	Total Flooded Volume (ac-in)	Total Time Flooded (min)
82	D49	Junction	773.63	774.35	773.63	774.35	0.00	0.95	774.20	0.00	0.43	0 00:00	0.00	0.00
83	D50	Junction	773.82	776.38	773.82	776.38	0.00	0.54	774.22	0.00	2.16	0 00:00	0.00	0.00
84	D51	Junction	775.29	776.85	775.29	776.85	0.00	0.61	775.66	0.00	1.19	0 00:00	0.00	0.00
85	D52	Junction	775.47	776.52	775.47	776.52	0.00	0.45	775.78	0.00	0.73	0 00:00	0.00	0.00
86	D53	Junction	773.89	775.58	773.89	775.58	0.00	0.54	774.26	0.00	1.31	0 00:00	0.00	0.00
87	D54	Junction	774.35	775.40	774.35	775.40	0.00	0.76	774.81	0.00	0.59	0 00:00	0.00	0.00
88	D55	Junction	775.32	775.39	775.32	775.39	0.00	0.69	775.71	0.00	0.61	0 00:00	0.00	0.00
89	D56	Junction	772.84	775.74	772.84	775.80	1000.00	12.30	776.48	0.74	0.00	0 18:53	0.21	4.00
90	D58	Junction	767.00	767.01	767.00	767.01	0.00	5.88	768.00	0.00	0.00	0 23:12	60.76	1196.00
91	D60	Junction	765.75	773.70	765.75	773.70	0.00	82.83	773.70	0.00	0.00	0 04:56	0.76	2.00
92	D61	Junction	765.90	773.70	765.90	773.72	0.00	14.61	773.72	0.02	0.00	0 05:21	0.02	1.00
93	RD01	Junction	772.84	770.95	772.84	770.95	0.00	1.92	773.79	0.00	0.05	0 00:00	0.00	0.00
94	RD02	Junction	772.34	770.45	772.34	770.45	0.00	1.19	773.14	0.00	0.20	0 00:00	0.00	0.00
95	RD03	Junction	772.82	770.93	772.82	770.93	0.00	1.07	773.43	0.00	0.39	0 00:00	0.00	0.00
96	RD04	Junction	772.32	770.42	772.32	770.42	0.00	1.19	772.98	0.00	0.34	0 00:00	0.00	0.00
97	RD05	Junction	772.82	770.92	772.82	770.92	0.00	0.81	773.32	0.00	0.50	0 00:00	0.00	0.00
98	RD06	Junction	773.34	771.44	773.34	771.44	0.00	0.74	773.83	0.00	0.51	0 00:00	0.00	0.00
99	RD07	Junction	772.80	770.91	772.80	770.91	0.00	1.05	773.41	0.00	0.39	0 00:00	0.00	0.00
100	RD08	Junction	773.30	771.41	773.30	771.41	0.00	1.14	773.98	0.00	0.32	0 00:00	0.00	0.00
101	RD09	Junction	773.82	771.93	773.82	771.93	0.00	1.32	774.56	0.00	0.26	0 00:00	0.00	0.00
102	RD10	Junction	773.01	771.12	773.01	771.12	0.00	1.32	773.75	0.00	0.26	0 00:00	0.00	0.00
103	RD11	Junction	772.49	770.60	772.49	770.60	0.00	1.14	773.17	0.00	0.32	0 00:00	0.00	0.00
104	RD12	Junction	771.99	770.10	771.99	770.10	0.00	1.05	772.94	0.00	0.05	0 00:00	0.00	0.00
105	RD13	Junction	772.98	771.09	772.98	771.09	0.00	0.81	773.50	0.00	0.48	0 00:00	0.00	0.00
106	RD14	Junction	772.46	770.56	772.46	770.56	0.00	0.81	773.12	0.00	0.34	0 00:00	0.00	0.00
107	RD15	Junction	771.96	770.07	771.96	770.07	0.00	2.30	772.96	0.00	0.00	0 16:03	0.00	0.00
108	RD16	Junction	772.97	771.08	772.97	771.08	0.00	1.07	773.61	0.00	0.36	0 00:00	0.00	0.00
109	RD17	Junction	772.45	770.55	772.45	770.55	0.00	1.19	773.11	0.00	0.34	0 00:00	0.00	0.00
110	RD18	Junction	771.95	770.06	771.95	770.06	0.00	2.24	772.95	0.00	0.00	0 22:28	0.00	0.00
111	RD19	Junction	773.97	772.08	773.97	772.08	0.00	1.92	774.87	0.00	0.10	0 00:00	0.00	0.00
112	RD20	Junction	774.47	772.57	774.47	772.57	0.00	1.19	775.13	0.00	0.34	0 00:00	0.00	0.00
113	RD21	Junction	774.99	773.10	774.99	773.10	0.00	1.07	775.63	0.00	0.36	0 00:00	0.00	0.00
114	RD22	Junction	773.37	771.47	773.37	771.47	0.00	1.19	774.03	0.00	0.34	0 00:00	0.00	0.00
115	RD23	Junction	773.87	771.97	773.87	771.97	0.00	0.81	774.39	0.00	0.48	0 00:00	0.00	0.00
116	RD24	Junction	774.39	772.49	774.39	772.49	0.00	0.81	774.91	0.00	0.48	0 00:00	0.00	0.00
117	RD25	Junction	773.75	771.85	773.75	771.85	0.00	1.05	774.36	0.00	0.39	0 00:00	0.00	0.00
118	RD26	Junction	774.25	772.35	774.25	772.35	0.00	1.14	774.93	0.00	0.32	0 00:00	0.00	0.00
119	RD27	Junction	774.77	772.87	774.77	772.87	0.00	1.32	775.51	0.00	0.26	0 00:00	0.00	0.00
120	RD29	Junction	775.20	773.31	775.20	773.31	0.00	1.32	775.94	0.00	0.26	0 00:00	0.00	0.00
121	RD30	Junction	774.68	772.79	774.68	772.79	0.00	1.14	775.36	0.00	0.32	0 00:00	0.00	0.00
122	RD31	Junction	774.18	772.29	774.18	772.29	0.00	1.05	774.79	0.00	0.39	0 00:00	0.00	0.00
123	RD32	Junction	774.73	772.83	774.73	772.83	0.00	0.81	775.25	0.00	0.48	0 00:00	0.00	0.00
124	RD33	Junction	774.21	772.31	774.21	772.31	0.00	0.81	774.73	0.00	0.48	0 00:00	0.00	0.00
125	RD34	Junction	773.71	771.81	773.71	771.81	0.00	1.19	774.37	0.00	0.34	0 00:00	0.00	0.00
126	RD35	Junction	774.27	772.38	774.27	772.38	0.00	1.07	774.91	0.00	0.36	0 00:00	0.00	0.00
127	RD36	Junction	773.75	771.86	773.75	771.86	0.00	1.19	774.41	0.00	0.34	0 00:00	0.00	0.00
128	RD37	Junction	773.25	771.36	773.25	771.36	0.00	1.92	774.15	0.00	0.10	0 00:00	0.00	0.00
129	D01	Outfall	764.40					9.37	764.40					
130	POND	Storage Node	768.00	772.00	768.00		100290.00	607.02	770.22				0.00	0.00

Link Summary

SN	Element ID	Element Type	From (Inlet) Node	To (Outlet) Node	Length (ft)	Inlet Invert Elevation (ft)	Outlet Invert Elevation (ft)	Average Slope (%)	Diameter or Height (in)	Manning's Roughness	Peak Flow (cfs)	Peak Flow Velocity (ft/sec)	Peak Flow Depth (ft)	Total Time Surcharged (min)
1	Link-01	Pipe	D60	POND	49.90	771.00	767.00	8.0200	12.000	0.0150	23.63	50.00	0.66	0.00
2	Link-02	Pipe	D61	D60	30.20	765.90	765.75	0.5000	12.000	0.0150	82.82	50.00	1.00	1146.00
3	Link-03	Pipe	D02	D01	54.17	767.94	767.40	1.0000	24.000	0.0150	9.37	5.91	0.37	0.00
4	P(100)	Pipe	(113)	(112)	49.86	773.95	773.45	1.0000	15.000	0.0120	2.41	3.28	0.82	0.00
5	P(101)	Pipe	(114)	(113)	52.12	774.72	774.20	1.0000	12.000	0.0120	1.30	2.91	0.67	0.00
6	P(102)	Pipe	RD27	(114)	5.00	774.77	774.72	1.0000	12.000	0.0120	1.31	2.27	0.71	0.00
7	P(103)	Pipe	RD26	(113)	5.00	774.25	774.20	1.0000	12.000	0.0120	1.13	2.76	0.66	0.00
8	P(104)	Pipe	RD25	(112)	5.00	773.75	773.70	1.0000	12.000	0.0120	1.04	2.94	0.55	0.00
9	P(105)	Pipe	(119)	D29	90.03	771.40	770.50	1.0000	18.000	0.0120	7.95	4.65	1.50	13.00
10	P(106)	Pipe	(120)	(119)	49.86	772.15	771.65	1.0000	15.000	0.0120	2.22	3.04	1.02	0.00
11	P(107)	Pipe	(121)	(120)	52.12	772.92	772.40	1.0000	12.000	0.0120	1.05	2.74	0.60	0.00
12	P(108)	Pipe	RD16	(121)	5.00	772.97	772.92	1.0000	12.000	0.0120	1.06	2.28	0.62	0.00
13	P(109)	Pipe	RD17	(120)	5.00	772.45	772.40	1.0000	12.000	0.0120	1.19	2.85	0.63	0.00
14	P(110)	Pipe	RD18	(119)	5.00	771.95	771.90	1.0000	12.000	0.0120	2.22	3.09	0.98	0.00
15	P(111)	Pipe	(125)	D31	91.03	771.41	770.50	1.0000	18.000	0.0120	8.53	4.94	1.50	12.00
16	P(112)	Pipe	(126)	(125)	49.86	772.16	771.66	1.0000	15.000	0.0120	1.99	3.11	1.01	0.00
17	P(113)	Pipe	(127)	(126)	52.12	772.93	772.41	1.0000	12.000	0.0120	0.88	2.79	0.45	0.00
18	P(114)	Pipe	RD13	(127)	5.00	772.98	772.93	1.0000	12.000	0.0120	0.81	2.27	0.50	0.00
19	P(115)	Pipe	RD14	(126)	5.00	772.46	772.41	1.0000	12.000	0.0120	0.84	2.82	0.50	0.00
20	P(116)	Pipe	RD15	(125)	5.00	771.96	771.91	1.0000	12.000	0.0120	2.28	3.18	0.98	0.00
21	P(117)	Pipe	(131)	D33	94.06	771.44	770.50	1.0000	18.000	0.0120	4.35	3.62	1.50	5.00
22	P(118)	Pipe	(132)	(131)	49.86	772.19	771.69	1.0000	15.000	0.0120	2.41	3.28	1.01	0.00
23	P(119)	Pipe	(133)	(132)	52.12	772.96	772.44	1.0000	12.000	0.0120	1.30	2.91	0.67	0.00
24	P(120)	Pipe	RD10	(133)	5.00	773.01	772.96	1.0000	12.000	0.0120	1.31	2.27	0.71	0.00
25	P(121)	Pipe	RD11	(132)	5.00	772.49	772.44	1.0000	12.000	0.0120	1.13	2.76	0.66	0.00
26	P(122)	Pipe	RD12	(131)	5.00	771.99	771.94	1.0000	12.000	0.0120	1.04	2.94	0.98	0.00
27	P(123)	Pipe	(137)	D38	120.37	772.70	771.50	1.0000	18.000	0.0120	4.08	3.62	1.20	0.00
28	P(124)	Pipe	(138)	(137)	49.86	773.45	772.95	1.0000	15.000	0.0120	2.22	3.05	0.86	0.00
29	P(125)	Pipe	(139)	(138)	52.12	774.22	773.70	1.0000	12.000	0.0120	1.05	2.74	0.60	0.00
30	P(126)	Pipe	RD35	(139)	5.00	774.27	774.22	1.0000	12.000	0.0120	1.06	2.28	0.62	0.00
31	P(127)	Pipe	RD36	(138)	5.00	773.75	773.70	1.0000	12.000	0.0120	1.19	2.85	0.63	0.00
32	P(128)	Pipe	RD37	(137)	5.00	773.25	773.20	1.0000	12.000	0.0120	1.91	3.07	0.75	0.00
33	P(129)	Pipe	(143)	D40	115.56	773.16	772.00	1.0000	18.000	0.0120	2.72	3.54	0.96	0.00
34	P(130)	Pipe	(144)	(143)	49.86	773.90	773.41	0.9800	15.000	0.0120	1.58	3.11	0.64	0.00
35	P(131)	Pipe	(145)	(144)	52.12	774.68	774.16	1.0000	12.000	0.0120	0.88	2.81	0.45	0.00
36	P(132)	Pipe	RD32	(145)	5.00	774.73	774.68	1.0000	12.000	0.0120	0.81	2.27	0.50	0.00
37	P(133)	Pipe	RD33	(144)	5.03	774.21	774.16	0.9900	12.000	0.0120	0.84	2.82	0.46	0.00
38	P(134)	Pipe	RD34	(143)	5.00	773.71	773.66	1.0000	12.000	0.0120	1.19	2.94	0.52	0.00
39	P(135)	Pipe	(149)	D42	113.42	773.63	772.50	1.0000	18.000	0.0120	3.42	3.62	0.84	0.00
40	P(136)	Pipe	(150)	(149)	49.86	774.38	773.88	1.0000	15.000	0.0120	2.41	3.28	0.82	0.00
41	P(137)	Pipe	(151)	(150)	52.12	775.15	774.63	1.0000	12.000	0.0120	1.30	2.91	0.67	0.00
42	P(138)	Pipe	RD29	(151)	5.00	775.20	775.15	1.0000	12.000	0.0120	1.31	2.27	0.71	0.00
43	P(139)	Pipe	RD30	(150)	5.00	774.68	774.63	1.0000	12.000	0.0120	1.13	2.76	0.66	0.00
44	P(140)	Pipe	RD31	(149)	5.00	774.18	774.13	1.0000	12.000	0.0120	1.04	2.94	0.55	0.00
45	P(15)	Pipe	D58	POND	58.56	767.00	765.50	2.5600	12.000	0.0120	5.86	7.46	1.00	719.00
46	P(16)	Pipe	D07	D06	123.16	766.37	766.06	0.2500	36.000	0.0120	25.23	3.57	3.00	380.00
47	P(16) (1)	Pipe	D08	D07	226.84	766.94	766.37	0.2500	36.000	0.0120	25.23	3.57	3.00	90.00
48	P(17)	Pipe	D09	D08	110.00	767.21	766.94	0.2500	36.000	0.0120	20.88	2.95	3.00	17.00
49	P(18)	Pipe	D10	D09	110.00	767.99	767.21	0.7100	36.000	0.0120	18.07	2.56	3.00	15.00
50	P(19)	Pipe	D11	D10	110.00	768.26	767.99	0.2500	36.000	0.0120	17.55	2.50	3.00	14.00
51	P(20)	Pipe	D12	D11	110.00	768.54	768.26	0.2500	36.000	0.0120	15.03	2.45	3.00	12.00
52	P(23)	Pipe	D18	D17	192.59	770.77	770.29	0.2500	30.000	0.0120	11.45	3.73	2.50	6.00
53	P(24)	Pipe	D19	D18	110.00	771.05	770.77	0.2500	24.000	0.0120	9.55	3.04	2.00	11.00
54	P(25)	Pipe	D20	D19	110.00	771.32	771.05	0.2500	24.000	0.0120	6.64	2.68	2.00	10.00
55	P(26)	Pipe	D21	D20	110.00	771.60	771.32	0.2500	24.000	0.0120	3.48	1.64	1.97	0.00
56	P(27)	Pipe	D22	D21	121.80	772.71	772.10	0.5000	18.000	0.0120	2.02	2.91	1.14	0.00
57	P(28)	Pipe	D23	D22	110.16	773.26	772.71	0.5000	18.000	0.0120	1.58	2.46	0.68	0.00
58	P(29)	Pipe	D24	D23	113.60	774.89	773.76	0.9900	12.000	0.0120	1.43	3.02	0.56	0.00
59	P(30)	Pipe	D25	D24	144.00	776.33	774.89	1.0000	12.000	0.0120	0.69	1.54	0.56	0.00
60	P(31)	Pipe	D27	POND	58.17	765.65	765.50	0.2600	48.000	0.0120	606.96	50.00	3.11	0.00
61	P(32)	Pipe	D28	D27	30.00	765.72	765.65	0.2300	36.000	0.0120	493.06	50.00	3.00	745.00
62	P(33)	Pipe	D29	D28	191.79	766.20	765.72	0.2500	36.000	0.0120	126.14	17.85	3.00	724.00
63	P(34)	Pipe	D30	D29	110.00	766.47	766.20	0.2500	36.000	0.0120	130.04	18.54	3.00	327.00
64	P(35)	Pipe	D31	D30	110.00	766.75	766.47	0.2500	36.000	0.0120	140.79	20.67	3.00	154.00
65	P(36)	Pipe	D32	D31	110.00	767.02	766.75	0.2500	36.000	0.0120	51.05	7.22	3.00	143.00
66	P(37)	Pipe	D33	D32	110.00	767.30	767.02	0.2500	36.000	0.0120	57.33	8.11	3.00	88.00
67	P(38)	Pipe	D34	D33	110.00	767.57	767.30	0.2500	36.000	0.0120	36.85	5.21	3.00	81.00
68	P(39)	Pipe	D35	D34	50.09	768.20	768.07	0.2600	30.000	0.0120	36.81	7.51	2.50	78.00
69	P(39) (1)	Pipe	D36	D35	84.79	768.41	768.20	0.2500	30.000	0.0120	34.26	7.59	2.50	74.00
70	P(40)	Pipe	D37	D36	30.63	768.49	768.41	0.2600	30.000	0.0120	22.61	5.23	2.50	73.00
71	P(41)	Pipe	D38	D37	145.53	768.85	768.49	0.2500	30.000	0.0120	21.24	4.63	2.50	67.00
72	P(42)	Pipe	D39	D38	115.67	769.14	768.85	0.2500	30.000	0.0120	17.61	3.97	2.50	63.00
73	P(43)	Pipe	D40	D39	110.00	769.92	769.64	0.2500	24.000	0.0120	10.81	4.46	2.00	59.00
74	P(44)	Pipe	D41	D40	110.00	770.19	769.92	0.2500	24.000	0.0120	9.60	3.61	2.00	51.00
75	P(45)	Pipe	D42	D41	110.00	770.47	770.19	0.2500	24.000	0.0120	7.56	3.30	2.00	42.00
76	P(46)	Pipe	D43	D42	110.00	770.74	770.47	0.2500	24.000	0.0120	5.70	2.84	2.00	28.00
77	P(47)	Pipe	D44	D43	55.00	770.88	770.74	0.2500	24.000	0.0120	3.64	2.29	2.00	14.00
78	P(48)	Pipe	D45	D44	255.74	772.52	771.88	0.2500	12.000	0.0120	1.08	2.25	0.99	0.00
79	P(49)	Pipe	D13	D12	100.80	768.79	768.54	0.2500	30.000	0.0120	14.63	3.06	2.50	16.00
80	P(50)	Pipe	D14	D13	152.05	769.17	768.79	0.2500	30.000	0.0120	14.50	3.12	2.50	15.00
81	P(51)	Pipe	D53	D14	108.00	773.89	772.81	1.0000	18.000	0.0120	0.66	2.51	0.31	0.00

Link Summary

SN	Element ID	Element Type	From (Inlet) Node	To (Outlet) Node	Length	Inlet Invert Elevation	Outlet Invert Elevation	Average Slope	Diameter or Height	Manning's Roughness	Peak Flow	Peak Flow Velocity	Peak Flow Depth	Total Time Surcharged
					(ft)	(ft)	(ft)	(%)	(in)		(cfs)	(ft/sec)	(ft)	(min)
82	P(53)	Pipe	D16	D15	70.60	769.52	769.34	0.2500	30.000	0.0120	13.30	2.86	2.50	14.00
83	P(54)	Pipe	D52	D15	117.00	775.47	774.30	1.0000	12.000	0.0120	0.44	2.55	0.27	0.00
84	P(55)	Pipe	D51	D37	163.40	775.29	773.65	1.0000	12.000	0.0120	0.59	2.78	0.31	0.00
85	P(56)	Pipe	D46	D36	161.45	771.93	770.31	1.0000	18.000	0.0120	2.51	3.32	1.23	0.00
86	P(57)	Pipe	D47	D46	76.76	772.70	771.93	1.0000	18.000	0.0120	2.12	2.45	0.74	0.00
87	P(58)	Pipe	D48	D47	13.14	773.08	772.95	0.9900	15.000	0.0120	1.49	3.26	0.51	0.00
88	P(59)	Pipe	D49	D48	29.92	773.63	773.33	1.0000	12.000	0.0120	0.94	2.94	0.47	0.00
89	P(60)	Pipe	D50	D49	13.28	773.82	773.63	1.4300	12.000	0.0120	0.54	1.66	0.48	0.00
90	P(61)	Pipe	D04	POND	52.97	765.63	765.50	0.2500	36.000	0.0120	27.13	8.00	2.61	0.00
91	P(62)	Pipe	D05	D04	82.14	765.83	765.63	0.2400	36.000	0.0120	31.69	5.47	3.00	730.00
92	P(63)	Pipe	D06	D05	90.00	766.05	765.83	0.2400	36.000	0.0120	25.67	5.09	3.00	728.00
93	P(64)	Pipe	D17	D16	108.60	769.79	769.52	0.2500	30.000	0.0120	13.25	3.02	2.50	14.00
94	P(65)	Pipe	D55	D14	67.82	775.32	774.64	1.0000	12.000	0.0120	0.68	2.88	0.34	0.00
95	P(66)	Pipe	D54	D04	82.14	774.35	772.71	2.0000	12.000	0.0120	0.77	3.26	0.33	0.00
96	P(67)	Pipe	D56	D28	46.08	770.84	769.92	2.0000	12.000	0.0120	12.29	23.09	1.00	4.00
97	P(68)	Pipe	D15	D14	69.52	769.34	769.17	0.2400	30.000	0.0120	13.72	3.01	2.50	14.00
98	P(69)	Pipe	(81)	D08	127.13	771.27	770.00	1.0000	18.000	0.0120	4.08	3.62	1.25	0.00
99	P(70)	Pipe	(82)	(81)	52.12	772.04	771.52	1.0000	15.000	0.0120	3.06	3.28	0.95	0.00
100	P(71)	Pipe	(83)	(82)	49.86	772.79	772.29	1.0000	12.000	0.0120	1.90	2.94	0.83	0.00
101	P(72)	Pipe	RD01	(83)	5.00	772.84	772.79	1.0000	12.000	0.0120	1.91	2.54	0.91	0.00
102	P(73)	Pipe	RD02	(82)	5.00	772.34	772.29	1.0000	12.000	0.0120	1.18	2.62	0.79	0.00
103	P(74)	Pipe	RD03	(81)	5.00	772.82	772.77	1.0000	12.000	0.0120	1.06	2.94	0.49	0.00
104	P(75)	Pipe	(87)	D09	126.56	771.77	770.50	1.0000	18.000	0.0120	2.65	3.62	1.11	0.00
105	P(76)	Pipe	(88)	(87)	49.86	772.51	772.02	0.9800	15.000	0.0120	1.54	3.09	0.61	0.00
106	P(77)	Pipe	(89)	(88)	52.12	773.29	772.77	1.0000	12.000	0.0120	0.78	2.78	0.39	0.00
107	P(78)	Pipe	RD06	(89)	5.00	773.34	773.29	1.0000	12.000	0.0120	0.74	2.26	0.45	0.00
108	P(79)	Pipe	RD05	(88)	5.00	772.82	772.77	1.0000	12.000	0.0120	0.87	2.85	0.43	0.00
109	P(80)	Pipe	RD04	(87)	5.00	772.32	772.27	1.0000	12.000	0.0120	1.19	2.94	0.52	0.00
110	P(81)	Pipe	(94)	D11	125.15	772.25	771.00	1.0000	18.000	0.0120	3.41	3.62	1.08	0.00
111	P(82)	Pipe	(95)	(94)	49.86	773.00	772.50	1.0000	15.000	0.0120	2.41	3.28	0.82	0.00
112	P(83)	Pipe	(96)	(95)	52.12	773.77	773.25	1.0000	12.000	0.0120	1.30	2.91	0.67	0.00
113	P(84)	Pipe	RD09	(96)	5.00	773.82	773.77	1.0000	12.000	0.0120	1.31	2.27	0.71	0.00
114	P(85)	Pipe	RD08	(95)	5.00	773.30	773.25	1.0000	12.000	0.0120	1.13	2.76	0.66	0.00
115	P(86)	Pipe	RD07	(94)	5.00	772.80	772.75	1.0000	12.000	0.0120	1.04	2.94	0.55	0.00
116	P(87)	Pipe	(100)	D17	92.04	773.42	772.50	1.0000	18.000	0.0120	4.06	3.79	0.87	0.00
117	P(88)	Pipe	(101)	(100)	49.86	774.17	773.67	1.0000	15.000	0.0120	2.22	3.04	0.85	0.00
118	P(89)	Pipe	(102)	(101)	52.12	774.94	774.42	1.0000	12.000	0.0120	1.05	2.74	0.60	0.00
119	P(90)	Pipe	RD21	(102)	5.00	774.99	774.94	1.0000	12.000	0.0120	1.06	2.28	0.62	0.00
120	P(91)	Pipe	RD20	(101)	5.00	774.47	774.42	1.0000	12.000	0.0120	1.19	2.85	0.63	0.00
121	P(92)	Pipe	RD19	(100)	5.00	773.97	773.92	1.0000	12.000	0.0120	1.91	3.07	0.75	0.00
122	P(93)	Pipe	(106)	D18	154.50	772.82	771.27	1.0000	18.000	0.0120	2.70	3.03	1.15	0.00
123	P(94)	Pipe	(107)	(106)	49.86	773.57	773.07	1.0000	15.000	0.0120	1.58	3.10	0.63	0.00
124	P(95)	Pipe	(108)	(107)	52.12	774.34	773.82	1.0000	12.000	0.0120	0.88	2.79	0.45	0.00
125	P(96)	Pipe	RD24	(108)	5.00	774.39	774.34	1.0000	12.000	0.0120	0.81	2.27	0.50	0.00
126	P(97)	Pipe	RD23	(107)	5.00	773.87	773.82	1.0000	12.000	0.0120	0.84	2.82	0.46	0.00
127	P(98)	Pipe	RD22	(106)	5.00	773.37	773.32	1.0000	12.000	0.0120	1.19	2.94	0.52	0.00
128	P(99)	Pipe	(112)	D20	137.40	773.20	771.82	1.0000	18.000	0.0120	3.41	3.47	1.20	0.00
129	Orifice-WQv	Orifice	POND	D02		768.00	767.94		6.100		1.37			
130	Weir-RIM	Weir	POND	D02		768.00	767.94				0.00			
131	Weir-Spillway	Weir	POND	D02		768.00	767.94				0.00			

Subbasin Hydrology

Subbasin : Sub-D04

Input Data

Area (ac) 0.10
Weighted Curve Number 98.00
Rain Gage ID ..... Rain Gage-01

Composite Curve Number

Soil/Surface Description	Area (acres)	Soil Group	Curve Number
-	0.10	-	98.00
Composite Area & Weighted CN	0.10		98.00

Time of Concentration

TOC Method : SCS TR-55

Sheet Flow Equation :

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

Where :

Tc = Time of Concentration (hr)
n = Manning's roughness
Lf = Flow Length (ft)
P = 2 yr, 24 hr Rainfall (inches)
Sf = Slope (ft/ft)

Shallow Concentrated Flow Equation :

V = 16.1345 * (Sf^0.5) (unpaved surface)
V = 20.3282 * (Sf^0.5) (paved surface)
V = 15.0 * (Sf^0.5) (grassed waterway surface)
V = 10.0 * (Sf^0.5) (nearly bare & untilled surface)
V = 9.0 * (Sf^0.5) (cultivated straight rows surface)
V = 7.0 * (Sf^0.5) (short grass pasture surface)
V = 5.0 * (Sf^0.5) (woodland surface)
V = 2.5 * (Sf^0.5) (forest w/heavy litter surface)
Tc = (Lf / V) / (3600 sec/hr)

Where:

Tc = Time of Concentration (hr)
Lf = Flow Length (ft)
V = Velocity (ft/sec)
Sf = Slope (ft/ft)

Channel Flow Equation :

V = (1.49 * (R^(2/3)) * (Sf^0.5)) / n
R = Aq / Wp
Tc = (Lf / V) / (3600 sec/hr)

Where :

Tc = Time of Concentration (hr)
Lf = Flow Length (ft)
R = Hydraulic Radius (ft)
Aq = Flow Area (ft^2)
Wp = Wetted Perimeter (ft)
V = Velocity (ft/sec)
Sf = Slope (ft/ft)
n = Manning's roughness

User-Defined TOC override (minutes): 5.0

Subbasin Runoff Results

Total Rainfall (in) 2.20
Total Runoff (in) 1.96
Peak Runoff (cfs) 0.29
Weighted Curve Number 98.00
Time of Concentration (days hh:mm:ss) 0 00:05:00

Subbasin : Sub-D05

Input Data

Area (ac) 0.18
Weighted Curve Number 98.00
Rain Gage ID ..... Rain Gage-01

Composite Curve Number

Soil/Surface Description	Area (acres)	Soil Group	Curve Number
-	0.18	-	98.00
Composite Area & Weighted CN	0.18		98.00

Time of Concentration

User-Defined TOC override (minutes): 5.0

Subbasin Runoff Results

Total Rainfall (in) 2.20
Total Runoff (in) 1.97
Peak Runoff (cfs) 0.51
Weighted Curve Number 98.00
Time of Concentration (days hh:mm:ss) 0 00:05:00

Subbasin : Sub-D06

Input Data

Area (ac) 0.17
Weighted Curve Number 98.00
Rain Gage ID ..... Rain Gage-01

Composite Curve Number

Soil/Surface Description	Area (acres)	Soil Group	Curve Number
-	0.17	-	98.00
Composite Area & Weighted CN	0.17		98.00

Time of Concentration

User-Defined TOC override (minutes): 5.00

Subbasin Runoff Results

Total Rainfall (in) 2.20
Total Runoff (in) 1.97
Peak Runoff (cfs) 0.49
Weighted Curve Number 98.00
Time of Concentration (days hh:mm:ss) 0 00:05:00

Subbasin : Sub-D08

Input Data

Area (ac) 0.41
Weighted Curve Number 98.00
Rain Gage ID ..... Rain Gage-01

Composite Curve Number

Soil/Surface Description	Area (acres)	Soil Group	Curve Number
-	0.41	-	98.00
Composite Area & Weighted CN	0.41		98.00

Time of Concentration

User-Defined TOC override (minutes): 5.0

Subbasin Runoff Results

Total Rainfall (in) 2.20
Total Runoff (in) 1.97
Peak Runoff (cfs) 1.16
Weighted Curve Number 98.00
Time of Concentration (days hh:mm:ss) 0 00:05:00

Subbasin : Sub-D09

Input Data

Area (ac) 0.33
Weighted Curve Number 98.00
Rain Gage ID ..... Rain Gage-01

Composite Curve Number

Soil/Surface Description	Area (acres)	Soil Group	Curve Number
-	0.33	-	98.00
Composite Area & Weighted CN	0.33		98.00

Time of Concentration

User-Defined TOC override (minutes): 5

Subbasin Runoff Results

Total Rainfall (in) 2.20
Total Runoff (in) 1.97
Peak Runoff (cfs) 0.94
Weighted Curve Number 98.00
Time of Concentration (days hh:mm:ss) 0 00:05:00

Subbasin : Sub-D10

Input Data

Area (ac) 0.33
Weighted Curve Number 98.00
Rain Gage ID ..... Rain Gage-01

Composite Curve Number

Soil/Surface Description	Area (acres)	Soil Group	Curve Number
-	0.33	-	98.00
Composite Area & Weighted CN	0.33		98.00

Time of Concentration

User-Defined TOC override (minutes): 5.0

Subbasin Runoff Results

Total Rainfall (in) 2.20
Total Runoff (in) 1.97
Peak Runoff (cfs) 0.94
Weighted Curve Number 98.00
Time of Concentration (days hh:mm:ss) 0 00:05:00

Subbasin : Sub-D11

Input Data

Area (ac) 0.33
Weighted Curve Number 98.00
Rain Gage ID ..... Rain Gage-01

Composite Curve Number

Soil/Surface Description	Area (acres)	Soil Group	Curve Number
-	0.33	-	98.00
Composite Area & Weighted CN	0.33		98.00

Time of Concentration

User-Defined TOC override (minutes): 5.0

Subbasin Runoff Results

Total Rainfall (in) 2.20
Total Runoff (in) 1.97
Peak Runoff (cfs) 0.94
Weighted Curve Number 98.00
Time of Concentration (days hh:mm:ss) 0 00:05:00

Subbasin : Sub-D12

Input Data

Area (ac) 0.22
Weighted Curve Number 98.00
Rain Gage ID ..... Rain Gage-01

Composite Curve Number

Soil/Surface Description	Area (acres)	Soil Group	Curve Number
-	0.22	-	98.00
Composite Area & Weighted CN	0.22		98.00

Time of Concentration

User-Defined TOC override (minutes): 5

Subbasin Runoff Results

Total Rainfall (in) 2.20
Total Runoff (in) 1.97
Peak Runoff (cfs) 0.61
Weighted Curve Number 98.00
Time of Concentration (days hh:mm:ss) 0 00:05:00

Subbasin : Sub-D13

Input Data

Area (ac) 0.18
Weighted Curve Number 98.00
Rain Gage ID ..... Rain Gage-01

Composite Curve Number

Soil/Surface Description	Area (acres)	Soil Group	Curve Number
-	0.18	-	98.00
Composite Area & Weighted CN	0.18		98.00

Time of Concentration

User-Defined TOC override (minutes): 5.00

Subbasin Runoff Results

Total Rainfall (in) 2.20
Total Runoff (in) 1.97
Peak Runoff (cfs) 0.51
Weighted Curve Number 98.00
Time of Concentration (days hh:mm:ss) 0 00:05:00

Subbasin : Sub-D14

Input Data

Area (ac) 0.22
Weighted Curve Number 98.00
Rain Gage ID ..... Rain Gage-01

Composite Curve Number

Soil/Surface Description	Area (acres)	Soil Group	Curve Number
-	0.22	-	98.00
Composite Area & Weighted CN	0.22		98.00

Time of Concentration

User-Defined TOC override (minutes): 5.0

Subbasin Runoff Results

Total Rainfall (in) 2.20
Total Runoff (in) 1.97
Peak Runoff (cfs) 0.61
Weighted Curve Number 98.00
Time of Concentration (days hh:mm:ss) 0 00:05:00

Subbasin : Sub-D15

Input Data

Area (ac) 0.12
Weighted Curve Number 98.00
Rain Gage ID ..... Rain Gage-01

Composite Curve Number

Soil/Surface Description	Area (acres)	Soil Group	Curve Number
-	0.12	-	98.00
Composite Area & Weighted CN	0.12		98.00

Time of Concentration

User-Defined TOC override (minutes): 5.0

Subbasin Runoff Results

Total Rainfall (in) 2.20
Total Runoff (in) 1.97
Peak Runoff (cfs) 0.34
Weighted Curve Number 98.00
Time of Concentration (days hh:mm:ss) 0 00:05:00

Subbasin : Sub-D16

Input Data

Area (ac) 0.06
Weighted Curve Number 98.00
Rain Gage ID ..... Rain Gage-01

Composite Curve Number

Soil/Surface Description	Area (acres)	Soil Group	Curve Number
-	0.06	-	98.00
Composite Area & Weighted CN	0.06		98.00

Time of Concentration

User-Defined TOC override (minutes): 5

Subbasin Runoff Results

Total Rainfall (in) 2.20
Total Runoff (in) 1.95
Peak Runoff (cfs) 0.16
Weighted Curve Number 98.00
Time of Concentration (days hh:mm:ss) 0 00:05:00

Subbasin : Sub-D17

Input Data

Area (ac) 0.16
Weighted Curve Number 98.00
Rain Gage ID ..... Rain Gage-01

Composite Curve Number

Soil/Surface Description	Area (acres)	Soil Group	Curve Number
-	0.16	-	98.00
Composite Area & Weighted CN	0.16		98.00

Time of Concentration

User-Defined TOC override (minutes): 5

Subbasin Runoff Results

Total Rainfall (in) 2.20
Total Runoff (in) 1.97
Peak Runoff (cfs) 0.45
Weighted Curve Number 98.00
Time of Concentration (days hh:mm:ss) 0 00:05:00

Subbasin : Sub-D18

Input Data

Area (ac) 0.54
Weighted Curve Number 98.00
Rain Gage ID ..... Rain Gage-01

Composite Curve Number

Soil/Surface Description	Area (acres)	Soil Group	Curve Number
-	0.54	-	98.00
Composite Area & Weighted CN	0.54		98.00

Time of Concentration

User-Defined TOC override (minutes): 5

Subbasin Runoff Results

Total Rainfall (in) 2.20
Total Runoff (in) 1.97
Peak Runoff (cfs) 1.52
Weighted Curve Number 98.00
Time of Concentration (days hh:mm:ss) 0 00:05:00

Subbasin : Sub-D19

Input Data

Area (ac) 0.33
Weighted Curve Number 98.00
Rain Gage ID ..... Rain Gage-01

Composite Curve Number

Soil/Surface Description	Area (acres)	Soil Group	Curve Number
-	0.33	-	98.00
Composite Area & Weighted CN	0.33		98.00

Time of Concentration

User-Defined TOC override (minutes): 5

Subbasin Runoff Results

Total Rainfall (in) 2.20
Total Runoff (in) 1.97
Peak Runoff (cfs) 0.94
Weighted Curve Number 98.00
Time of Concentration (days hh:mm:ss) 0 00:05:00

Subbasin : Sub-D20

Input Data

Area (ac) 0.33
Weighted Curve Number 98.00
Rain Gage ID ..... Rain Gage-01

Composite Curve Number

Soil/Surface Description	Area (acres)	Soil Group	Curve Number
-	0.33	-	98.00
Composite Area & Weighted CN	0.33		98.00

Time of Concentration

User-Defined TOC override (minutes): 5

Subbasin Runoff Results

Total Rainfall (in) 2.20
Total Runoff (in) 1.97
Peak Runoff (cfs) 0.94
Weighted Curve Number 98.00
Time of Concentration (days hh:mm:ss) 0 00:05:00

Subbasin : Sub-D21

Input Data

Area (ac) 0.54
Weighted Curve Number 98.00
Rain Gage ID ..... Rain Gage-01

Composite Curve Number

Soil/Surface Description	Area (acres)	Soil Group	Curve Number
-	0.54	-	98.00
Composite Area & Weighted CN	0.54		98.00

Time of Concentration

User-Defined TOC override (minutes): 5

Subbasin Runoff Results

Total Rainfall (in) 2.20
Total Runoff (in) 1.97
Peak Runoff (cfs) 1.52
Weighted Curve Number 98.00
Time of Concentration (days hh:mm:ss) 0 00:05:00

Subbasin : Sub-D22

Input Data

Area (ac) 0.14
Weighted Curve Number 98.00
Rain Gage ID ..... Rain Gage-01

Composite Curve Number

Soil/Surface Description	Area (acres)	Soil Group	Curve Number
-	0.14	-	98.00
Composite Area & Weighted CN	0.14		98.00

Time of Concentration

User-Defined TOC override (minutes): 5

Subbasin Runoff Results

Total Rainfall (in) 2.20
Total Runoff (in) 1.97
Peak Runoff (cfs) 0.40
Weighted Curve Number 98.00
Time of Concentration (days hh:mm:ss) 0 00:05:00

Subbasin : Sub-D23

Input Data

Area (ac) 0.06
Weighted Curve Number 98.00
Rain Gage ID ..... Rain Gage-01

Composite Curve Number

Soil/Surface Description	Area (acres)	Soil Group	Curve Number
-	0.06	-	98.00
Composite Area & Weighted CN	0.06		98.00

Time of Concentration

User-Defined TOC override (minutes): 5

Subbasin Runoff Results

Total Rainfall (in) 2.20
Total Runoff (in) 1.95
Peak Runoff (cfs) 0.16
Weighted Curve Number 98.00
Time of Concentration (days hh:mm:ss) 0 00:05:00

Subbasin : Sub-D24

Input Data

Area (ac) 0.28
Weighted Curve Number 98.00
Rain Gage ID ..... Rain Gage-01

Composite Curve Number

Soil/Surface Description	Area (acres)	Soil Group	Curve Number
-	0.28	-	98.00
Composite Area & Weighted CN	0.28		98.00

Time of Concentration

User-Defined TOC override (minutes): 5

Subbasin Runoff Results

Total Rainfall (in) 2.20
Total Runoff (in) 1.97
Peak Runoff (cfs) 0.80
Weighted Curve Number 98.00
Time of Concentration (days hh:mm:ss) 0 00:05:00

Subbasin : Sub-D25

Input Data

Area (ac) 0.25
Weighted Curve Number 98.00
Rain Gage ID ..... Rain Gage-01

Composite Curve Number

Soil/Surface Description	Area (acres)	Soil Group	Curve Number
-	0.25	-	98.00
Composite Area & Weighted CN	0.25		98.00

Time of Concentration

User-Defined TOC override (minutes): 5

Subbasin Runoff Results

Total Rainfall (in) 2.20
Total Runoff (in) 1.97
Peak Runoff (cfs) 0.71
Weighted Curve Number 98.00
Time of Concentration (days hh:mm:ss) 0 00:05:00

Subbasin : Sub-D27

Input Data

Area (ac) 0.18
Weighted Curve Number 98.00
Rain Gage ID ..... Rain Gage-01

Composite Curve Number

Soil/Surface Description	Area (acres)	Soil Group	Curve Number
-	0.18	-	98.00
Composite Area & Weighted CN	0.18		98.00

Time of Concentration

User-Defined TOC override (minutes): 5

Subbasin Runoff Results

Total Rainfall (in) 2.20
Total Runoff (in) 1.97
Peak Runoff (cfs) 0.51
Weighted Curve Number 98.00
Time of Concentration (days hh:mm:ss) 0 00:05:00

Subbasin : Sub-D28

Input Data

Area (ac) 0.13
Weighted Curve Number 98.00
Rain Gage ID ..... Rain Gage-01

Composite Curve Number

Soil/Surface Description	Area (acres)	Soil Group	Curve Number
-	0.13	-	98.00
Composite Area & Weighted CN	0.13		98.00

Time of Concentration

User-Defined TOC override (minutes): 5

Subbasin Runoff Results

Total Rainfall (in) 2.20
Total Runoff (in) 1.97
Peak Runoff (cfs) 0.36
Weighted Curve Number 98.00
Time of Concentration (days hh:mm:ss) 0 00:05:00

Subbasin : Sub-D29

Input Data

Area (ac) 0.78
Weighted Curve Number 98.00
Rain Gage ID ..... Rain Gage-01

Composite Curve Number

Soil/Surface Description	Area (acres)	Soil Group	Curve Number
-	0.78	-	98.00
Composite Area & Weighted CN	0.78		98.00

Time of Concentration

User-Defined TOC override (minutes): 5.0

Subbasin Runoff Results

Total Rainfall (in) 2.20
Total Runoff (in) 1.97
Peak Runoff (cfs) 2.21
Weighted Curve Number 98.00
Time of Concentration (days hh:mm:ss) 0 00:05:00

Subbasin : Sub-D30

Input Data

Area (ac) 0.48
Weighted Curve Number 98.00
Rain Gage ID ..... Rain Gage-01

Composite Curve Number

Soil/Surface Description	Area (acres)	Soil Group	Curve Number
-	0.48	-	98.00
Composite Area & Weighted CN	0.48		98.00

Time of Concentration

User-Defined TOC override (minutes): 5

Subbasin Runoff Results

Total Rainfall (in) 2.20
Total Runoff (in) 1.97
Peak Runoff (cfs) 1.36
Weighted Curve Number 98.00
Time of Concentration (days hh:mm:ss) 0 00:05:00

Subbasin : Sub-D31

Input Data

Area (ac) 0.50
Weighted Curve Number 98.00
Rain Gage ID ..... Rain Gage-01

Composite Curve Number

Soil/Surface Description	Area (acres)	Soil Group	Curve Number
-	0.50	-	98.00
Composite Area & Weighted CN	0.50		98.00

Time of Concentration

User-Defined TOC override (minutes): 5

Subbasin Runoff Results

Total Rainfall (in) 2.20
Total Runoff (in) 1.97
Peak Runoff (cfs) 1.41
Weighted Curve Number 98.00
Time of Concentration (days hh:mm:ss) 0 00:05:00

Subbasin : Sub-D32

Input Data

Area (ac) 0.52
Weighted Curve Number 98.00
Rain Gage ID ..... Rain Gage-01

Composite Curve Number

Soil/Surface Description	Area (acres)	Soil Group	Curve Number
-	0.52	-	98.00
Composite Area & Weighted CN	0.52		98.00

Time of Concentration

User-Defined TOC override (minutes): 5

Subbasin Runoff Results

Total Rainfall (in) 2.20
Total Runoff (in) 1.97
Peak Runoff (cfs) 1.46
Weighted Curve Number 98.00
Time of Concentration (days hh:mm:ss) 0 00:05:00

Subbasin : Sub-D33

Input Data

Area (ac) 0.53
Weighted Curve Number 98.00
Rain Gage ID ..... Rain Gage-01

Composite Curve Number

Soil/Surface Description	Area (acres)	Soil Group	Curve Number
-	0.53	-	98.00
Composite Area & Weighted CN	0.53		98.00

Time of Concentration

User-Defined TOC override (minutes): 5

Subbasin Runoff Results

Total Rainfall (in) 2.20
Total Runoff (in) 1.97
Peak Runoff (cfs) 1.50
Weighted Curve Number 98.00
Time of Concentration (days hh:mm:ss) 0 00:05:00

Subbasin : Sub-D34

Input Data

Area (ac) 0.56
Weighted Curve Number 98.00
Rain Gage ID ..... Rain Gage-01

Composite Curve Number

Soil/Surface Description	Area (acres)	Soil Group	Curve Number
-	0.56	-	98.00
Composite Area & Weighted CN	0.56		98.00

Time of Concentration

User-Defined TOC override (minutes): 5

Subbasin Runoff Results

Total Rainfall (in) 2.20
Total Runoff (in) 1.97
Peak Runoff (cfs) 1.59
Weighted Curve Number 98.00
Time of Concentration (days hh:mm:ss) 0 00:05:00

Subbasin : Sub-D35

Input Data

Area (ac) 0.34
Weighted Curve Number 98.00
Rain Gage ID ..... Rain Gage-01

Composite Curve Number

Soil/Surface Description	Area (acres)	Soil Group	Curve Number
-	0.34	-	98.00
Composite Area & Weighted CN	0.34		98.00

Time of Concentration

User-Defined TOC override (minutes): 5

Subbasin Runoff Results

Total Rainfall (in) 2.20
Total Runoff (in) 1.97
Peak Runoff (cfs) 0.96
Weighted Curve Number 98.00
Time of Concentration (days hh:mm:ss) 0 00:05:00

Subbasin : Sub-D36

Input Data

Area (ac) 0.11
Weighted Curve Number 98.00
Rain Gage ID ..... Rain Gage-01

Composite Curve Number

Soil/Surface Description	Area (acres)	Soil Group	Curve Number
-	0.11	-	98.00
Composite Area & Weighted CN	0.11		98.00

Time of Concentration

User-Defined TOC override (minutes): 5

Subbasin Runoff Results

Total Rainfall (in) 2.20
Total Runoff (in) 1.97
Peak Runoff (cfs) 0.31
Weighted Curve Number 98.00
Time of Concentration (days hh:mm:ss) 0 00:05:00

Subbasin : Sub-D37

Input Data

Area (ac) 0.14
Weighted Curve Number 98.00
Rain Gage ID ..... Rain Gage-01

Composite Curve Number

Soil/Surface Description	Area (acres)	Soil Group	Curve Number
-	0.14	-	98.00
Composite Area & Weighted CN	0.14		98.00

Time of Concentration

User-Defined TOC override (minutes): 5

Subbasin Runoff Results

Total Rainfall (in) 2.20
Total Runoff (in) 1.97
Peak Runoff (cfs) 0.40
Weighted Curve Number 98.00
Time of Concentration (days hh:mm:ss) 0 00:05:00

Subbasin : Sub-D38

Input Data

Area (ac) 0.77
Weighted Curve Number 98.00
Rain Gage ID ..... Rain Gage-01

Composite Curve Number

Soil/Surface Description	Area (acres)	Soil Group	Curve Number
-	0.77	-	98.00
Composite Area & Weighted CN	0.77		98.00

Time of Concentration

User-Defined TOC override (minutes): 5

Subbasin Runoff Results

Total Rainfall (in) 2.20
Total Runoff (in) 1.97
Peak Runoff (cfs) 2.17
Weighted Curve Number 98.00
Time of Concentration (days hh:mm:ss) 0 00:05:00

Subbasin : Sub-D39

Input Data

Area (ac) 0.52
Weighted Curve Number 98.00
Rain Gage ID ..... Rain Gage-01

Composite Curve Number

Soil/Surface Description	Area (acres)	Soil Group	Curve Number
-	0.52	-	98.00
Composite Area & Weighted CN	0.52		98.00

Time of Concentration

Junction Input

SN	Element ID	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Surcharge Elevation (ft)	Surcharge Depth (ft)	Ponded Area (ft²)	Minimum Pipe Cover (in)
1	(100)	773.42	772.06	-1.36	772.06	0.00	0.00	0.00
2	(101)	774.17	772.54	-1.63	772.54	0.00	0.00	0.00
3	(102)	774.94	773.05	-1.89	773.05	0.00	0.00	0.00
4	(106)	772.82	771.46	-1.36	771.46	0.00	0.00	0.00
5	(107)	773.57	771.94	-1.63	771.94	0.00	0.00	0.00
6	(108)	774.34	772.44	-1.90	772.44	0.00	0.00	0.00
7	(112)	773.20	771.84	-1.36	771.84	0.00	0.00	0.00
8	(113)	773.95	772.32	-1.63	772.32	0.00	0.00	0.00
9	(114)	774.72	772.82	-1.90	772.82	0.00	0.00	0.00
10	(119)	771.40	770.04	-1.36	770.04	0.00	0.00	0.00
11	(120)	772.15	770.52	-1.63	770.52	0.00	0.00	0.00
12	(121)	772.92	771.03	-1.89	771.03	0.00	0.00	0.00
13	(125)	771.41	770.05	-1.36	770.05	0.00	0.00	0.00
14	(126)	772.16	770.53	-1.63	770.53	0.00	0.00	0.00
15	(127)	772.93	771.04	-1.89	771.04	0.00	0.00	0.00
16	(131)	771.44	770.08	-1.36	770.08	0.00	0.00	0.00
17	(132)	772.19	770.56	-1.63	770.56	0.00	0.00	0.00
18	(133)	772.96	771.07	-1.89	771.07	0.00	0.00	0.00
19	(137)	772.70	771.35	-1.35	771.35	0.00	0.00	0.00
20	(138)	773.45	771.82	-1.63	771.82	0.00	0.00	0.00
21	(139)	774.22	772.33	-1.89	772.33	0.00	0.00	0.00
22	(143)	773.16	771.80	-1.36	771.80	0.00	0.00	0.00
23	(144)	773.90	772.28	-1.62	772.28	0.00	0.00	0.00
24	(145)	774.68	772.78	-1.90	772.78	0.00	0.00	0.00
25	(149)	773.63	772.28	-1.35	772.28	0.00	0.00	0.00
26	(150)	774.38	772.75	-1.63	772.75	0.00	0.00	0.00
27	(151)	775.15	773.26	-1.89	773.26	0.00	0.00	0.00
28	(81)	771.27	770.95	-0.32	770.95	0.00	0.00	0.00
29	(82)	772.04	770.41	-1.63	770.41	0.00	0.00	0.00
30	(83)	772.79	770.90	-1.89	770.90	0.00	0.00	0.00
31	(87)	771.77	770.41	-1.36	770.41	0.00	0.00	0.00
32	(88)	772.51	770.89	-1.62	770.89	0.00	0.00	0.00
33	(89)	773.29	771.39	-1.90	771.39	0.00	0.00	0.00
34	(94)	772.25	770.90	-1.35	770.90	0.00	0.00	0.00
35	(95)	773.00	771.37	-1.63	771.37	0.00	0.00	0.00
36	(96)	773.77	771.88	-1.89	771.88	0.00	0.00	0.00
37	D02	767.94	771.00	3.06	771.00	0.00	0.00	0.00
38	D04	765.00	774.75	9.75	774.75	0.00	0.00	0.00
39	D05	765.84	775.40	9.56	776.16	0.76	225.00	0.00
40	D06	766.06	775.67	9.61	776.16	0.49	225.00	0.00
41	D07	766.37	774.54	8.17	774.54	0.00	0.00	0.00
42	D08	766.94	771.96	5.02	772.62	0.66	1945.00	0.00
43	D09	767.71	772.06	4.35	772.06	0.00	0.00	0.00
44	D10	767.49	772.16	4.67	772.16	0.00	0.00	0.00
45	D11	768.26	772.26	4.00	772.82	0.56	1945.00	0.00
46	D12	768.54	772.36	3.82	772.36	0.00	0.00	0.00
47	D13	768.79	776.05	7.26	776.99	0.95	4500.00	0.00
48	D14	769.17	775.76	6.59	776.84	1.08	3586.00	0.00
49	D15	769.34	776.79	7.45	777.40	0.61	223.00	0.00
50	D16	769.52	777.10	7.58	777.63	0.53	205.00	0.00
51	D17	769.79	776.75	6.96	778.07	1.32	4335.00	0.00
52	D18	770.77	772.45	1.68	773.27	0.82	1575.00	0.00
53	D19	771.05	772.55	1.50	773.27	0.72	1575.00	0.00
54	D20	771.32	772.65	1.33	773.37	0.72	1575.00	0.00
55	D21	771.60	772.75	1.15	772.75	0.00	0.00	0.00
56	D22	772.71	776.22	3.51	776.22	0.00	0.00	0.00
57	D23	773.26	776.70	3.44	776.70	0.00	0.00	0.00
58	D24	774.89	776.12	1.23	776.12	0.00	0.00	0.00
59	D25	776.33	776.44	0.11	776.44	0.00	0.00	0.00
60	D27	765.65	773.41	7.76	774.80	1.39	2500.00	0.00
61	D28	765.72	773.41	7.69	774.80	1.39	2500.00	0.00
62	D29	766.20	772.38	6.18	774.80	2.42	100300.00	0.00
63	D30	766.47	772.62	6.15	773.17	0.55	4064.00	0.00
64	D31	766.75	772.72	5.97	773.27	0.55	4064.00	0.00
65	D32	767.02	772.82	5.80	773.37	0.55	4064.00	0.00
66	D33	767.30	772.92	5.62	773.47	0.55	4064.00	0.00
67	D34	767.57	773.02	5.45	773.02	0.00	0.00	0.00
68	D35	768.20	773.46	5.26	773.70	0.24	200.00	0.00
69	D36	768.41	776.28	7.87	776.49	0.21	212.00	0.00
70	D37	768.49	776.22	7.73	776.49	0.27	241.00	0.00
71	D38	768.85	772.65	3.80	776.47	3.82	131026.00	0.00
72	D39	769.14	772.79	3.65	772.79	0.00	0.00	0.00
73	D40	769.92	772.89	2.97	773.44	0.55	3310.00	0.00
74	D41	770.19	772.99	2.80	773.54	0.55	3089.00	0.00
75	D42	770.47	773.09	2.62	773.64	0.55	3516.00	0.00
76	D43	770.74	773.19	2.45	773.19	0.00	0.00	0.00
77	D44	770.88	773.55	2.67	773.55	0.00	0.00	0.00
78	D45	772.52	776.40	3.88	777.27	0.87	7643.00	0.00
79	D46	771.93	776.01	4.08	776.01	0.00	0.00	0.00
80	D47	772.70	775.90	3.20	775.90	0.00	0.00	0.00
81	D48	773.08	774.35	1.27	774.35	0.00	0.00	0.00
82	D49	773.63	774.35	0.72	774.35	0.00	0.00	0.00

Junction Input

SN	Element ID	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Surcharge Elevation (ft)	Surcharge Depth (ft)	Ponded Area (ft²)	Minimum Pipe Cover (in)
83	D50	773.82	776.38	2.56	776.38	0.00	0.00	0.00
84	D51	775.29	776.85	1.56	776.85	0.00	0.00	0.00
85	D52	775.47	776.52	1.05	776.52	0.00	0.00	0.00
86	D53	773.89	775.58	1.69	775.58	0.00	0.00	0.00
87	D54	774.35	775.40	1.05	775.40	0.00	0.00	0.00
88	D55	775.32	775.39	0.07	775.39	0.00	0.00	0.00
89	D56	772.84	775.74	2.90	775.80	0.06	1000.00	0.00
90	D58	767.00	767.01	0.01	767.01	0.00	0.00	0.00
91	D60	765.75	773.70	7.95	773.70	0.00	0.00	0.00
92	D61	765.90	773.70	7.80	773.72	0.02	0.00	0.00
93	RD01	772.84	770.95	-1.89	770.95	0.00	0.00	0.00
94	RD02	772.34	770.45	-1.89	770.45	0.00	0.00	0.00
95	RD03	772.82	770.93	-1.89	770.93	0.00	0.00	0.00
96	RD04	772.32	770.42	-1.90	770.42	0.00	0.00	0.00
97	RD05	772.82	770.92	-1.90	770.92	0.00	0.00	0.00
98	RD06	773.34	771.44	-1.90	771.44	0.00	0.00	0.00
99	RD07	772.80	770.91	-1.89	770.91	0.00	0.00	0.00
100	RD08	773.30	771.41	-1.89	771.41	0.00	0.00	0.00
101	RD09	773.82	771.93	-1.89	771.93	0.00	0.00	0.00
102	RD10	773.01	771.12	-1.89	771.12	0.00	0.00	0.00
103	RD11	772.49	770.60	-1.90	770.60	0.00	0.00	0.00
104	RD12	771.99	770.10	-1.89	770.10	0.00	0.00	0.00
105	RD13	772.98	771.09	-1.90	771.09	0.00	0.00	0.00
106	RD14	772.46	770.56	-1.90	770.56	0.00	0.00	0.00
107	RD15	771.96	770.07	-1.90	770.07	0.00	0.00	0.00
108	RD16	772.97	771.08	-1.90	771.08	0.00	0.00	0.00
109	RD17	772.45	770.55	-1.90	770.55	0.00	0.00	0.00
110	RD18	771.95	770.06	-1.90	770.06	0.00	0.00	0.00
111	RD19	773.97	772.08	-1.90	772.08	0.00	0.00	0.00
112	RD20	774.47	772.57	-1.90	772.57	0.00	0.00	0.00
113	RD21	774.99	773.10	-1.90	773.10	0.00	0.00	0.00
114	RD22	773.37	771.47	-1.90	771.47	0.00	0.00	0.00
115	RD23	773.87	771.97	-1.90	771.97	0.00	0.00	0.00
116	RD24	774.39	772.49	-1.90	772.49	0.00	0.00	0.00
117	RD25	773.75	771.85	-1.90	771.85	0.00	0.00	0.00
118	RD26	774.25	772.35	-1.90	772.35	0.00	0.00	0.00
119	RD27	774.77	772.87	-1.90	772.87	0.00	0.00	0.00
120	RD29	775.20	773.31	-1.89	773.31	0.00	0.00	0.00
121	RD30	774.68	772.79	-1.89	772.79	0.00	0.00	0.00
122	RD31	774.18	772.29	-1.89	772.29	0.00	0.00	0.00
123	RD32	774.73	772.83	-1.90	772.83	0.00	0.00	0.00
124	RD33	774.21	772.31	-1.90	772.31	0.00	0.00	0.00
125	RD34	773.71	771.81	-1.90	771.81	0.00	0.00	0.00
126	RD35	774.27	772.38	-1.89	772.38	0.00	0.00	0.00
127	RD36	773.75	771.86	-1.89	771.86	0.00	0.00	0.00
128	RD37	773.25	771.36	-1.89	771.36	0.00	0.00	0.00

Junction Results

SN	Element ID	Peak Inflow (cfs)	Peak Lateral Inflow (cfs)	Max HGL Elevation Attained (ft)	Max HGL Depth Attained (ft)	Max Surcharge Depth Attained (ft)	Min Freeboard Attained (ft)	Average HGL Elevation Attained (ft)	Average HGL Depth Attained (ft)	Time of Max HGL Occurrence (days hh:mm)	Time of Peak Flooding Occurrence (days hh:mm)	Total Flooded Volume (ac-in)	Total Time Flooded (min)
1	(100)	4.11	0.00	774.55	1.13	0.00	0.37	773.70	0.28	0 12:00	0 00:00	0.00	0.00
2	(101)	2.24	0.00	775.03	0.86	0.00	0.39	774.38	0.21	0 12:00	0 00:00	0.00	0.00
3	(102)	1.06	0.00	775.55	0.61	0.00	0.39	775.09	0.15	0 12:00	0 00:00	0.00	0.00
4	(106)	2.74	0.00	773.70	0.88	0.00	0.62	773.04	0.22	0 12:01	0 00:00	0.00	0.00
5	(107)	1.64	0.00	774.27	0.70	0.00	0.55	773.75	0.18	0 12:00	0 00:00	0.00	0.00
6	(108)	0.81	0.00	774.84	0.50	0.00	0.50	774.47	0.13	0 12:00	0 00:00	0.00	0.00
7	(112)	3.45	0.00	774.21	1.01	0.00	0.49	773.45	0.25	0 12:00	0 00:00	0.00	0.00
8	(113)	2.43	0.00	774.86	0.91	0.00	0.34	774.17	0.22	0 12:00	0 00:00	0.00	0.00
9	(114)	1.31	0.00	775.42	0.70	0.00	0.30	774.89	0.17	0 12:00	0 00:00	0.00	0.00
10	(119)	7.95	0.00	772.90	1.50	0.00	0.00	771.78	0.38	0 22:28	0 22:29	0.81	13.00
11	(120)	2.24	0.00	773.08	0.93	0.00	0.32	772.39	0.24	0 22:29	0 00:00	0.00	0.00
12	(121)	1.06	0.00	773.53	0.61	0.00	0.39	773.07	0.15	0 12:00	0 00:00	0.00	0.00
13	(125)	8.53	0.00	772.91	1.50	0.00	0.00	771.72	0.31	0 16:03	0 16:03	0.37	12.00
14	(126)	2.01	0.00	773.09	0.93	0.00	0.32	772.36	0.20	0 16:03	0 00:00	0.00	0.00
15	(127)	0.81	0.00	773.43	0.50	0.00	0.50	773.06	0.13	0 12:00	0 00:00	0.00	0.00
16	(131)	4.40	0.00	772.94	1.50	0.00	0.00	771.76	0.32	0 22:34	0 22:37	0.05	5.00
17	(132)	2.43	0.00	773.10	0.91	0.00	0.34	772.43	0.24	0 12:00	0 00:00	0.00	0.00
18	(133)	1.31	0.00	773.66	0.70	0.00	0.30	773.13	0.17	0 12:00	0 00:00	0.00	0.00
19	(137)	4.11	0.00	773.84	1.14	0.00	0.36	772.98	0.28	0 12:00	0 00:00	0.00	0.00
20	(138)	2.24	0.00	774.31	0.86	0.00	0.39	773.66	0.21	0 12:00	0 00:00	0.00	0.00
21	(139)	1.06	0.00	774.83	0.61	0.00	0.39	774.37	0.15	0 12:00	0 00:00	0.00	0.00
22	(143)	2.75	0.00	774.04	0.88	0.00	0.62	773.38	0.22	0 12:00	0 00:00	0.00	0.00
23	(144)	1.67	0.00	774.60	0.70	0.00	0.56	774.08	0.18	0 12:00	0 00:00	0.00	0.00
24	(145)	0.81	0.00	775.18	0.50	0.00	0.50	774.81	0.13	0 12:00	0 00:00	0.00	0.00
25	(149)	3.45	0.00	774.64	1.01	0.00	0.49	773.88	0.25	0 12:00	0 00:00	0.00	0.00
26	(150)	2.43	0.00	775.29	0.91	0.00	0.34	774.60	0.22	0 12:00	0 00:00	0.00	0.00
27	(151)	1.31	0.00	775.85	0.70	0.00	0.30	775.32	0.17	0 12:00	0 00:00	0.00	0.00
28	(81)	4.11	0.00	772.41	1.14	0.00	1.36	771.54	0.27	0 12:00	0 00:00	0.00	0.00
29	(82)	3.08	0.00	773.08	1.04	0.00	0.21	772.29	0.25	0 12:00	0 00:00	0.00	0.00
30	(83)	1.91	0.00	773.68	0.89	0.00	0.11	773.00	0.21	0 12:00	0 00:00	0.00	0.00
31	(87)	2.72	0.00	772.64	0.87	0.00	0.63	771.99	0.22	0 12:00	0 00:00	0.00	0.00
32	(88)	1.62	0.00	773.13	0.62	0.00	0.64	772.68	0.17	0 12:00	0 00:00	0.00	0.00
33	(89)	0.74	0.00	773.75	0.46	0.00	0.54	773.41	0.12	0 12:00	0 00:00	0.00	0.00
34	(94)	3.45	0.00	773.26	1.01	0.00	0.49	772.50	0.25	0 12:00	0 00:00	0.00	0.00
35	(95)	2.43	0.00	773.91	0.91	0.00	0.34	773.22	0.22	0 12:00	0 00:00	0.00	0.00
36	(96)	1.31	0.00	774.47	0.70	0.00	0.30	773.94	0.17	0 12:00	0 00:00	0.00	0.00
37	D02	1.37	0.00	769.99	2.05	0.00	2.05	768.21	0.27	0 00:00	0 00:00	0.00	0.00
38	D04	40.85	0.29	770.87	5.87	0.00	3.88	769.03	4.03	0 21:43	0 00:00	0.00	0.00
39	D05	41.54	0.51	775.42	9.58	0.02	0.00	769.06	3.22	0 22:28	0 22:13	0.01	0.00
40	D06	25.67	0.49	775.30	9.24	0.00	0.38	769.10	3.04	0 22:13	0 00:00	0.00	0.00
41	D07	25.23	0.00	771.35	4.98	0.00	3.19	769.14	2.77	0 12:01	0 00:00	0.00	0.00
42	D08	25.15	1.16	771.84	4.90	0.00	0.12	769.21	2.27	0 12:01	0 00:00	0.00	0.00
43	D09	20.92	0.94	772.05	4.34	0.00	0.01	769.28	1.57	0 12:01	0 00:00	0.00	0.00
44	D10	18.07	0.94	772.16	4.67	0.00	0.00	769.32	1.83	0 12:01	0 12:01	0.00	1.00
45	D11	17.26	0.94	772.31	4.05	0.00	0.19	769.44	1.18	0 12:01	0 00:00	0.00	0.00
46	D12	14.83	0.61	772.36	3.82	0.00	0.00	769.54	1.00	0 12:01	0 12:01	0.09	5.00
47	D13	14.63	0.51	772.57	3.78	0.00	3.47	769.68	0.89	0 12:03	0 00:00	0.00	0.00
48	D14	14.24	0.61	772.83	3.66	0.00	2.93	769.91	0.74	0 12:03	0 00:00	0.00	0.00
49	D15	13.51	0.34	772.96	3.62	0.00	3.82	770.05	0.71	0 12:05	0 00:00	0.00	0.00
50	D16	13.29	0.16	773.09	3.57	0.00	4.01	770.20	0.68	0 12:05	0 00:00	0.00	0.00
51	D17	14.04	0.45	773.24	3.45	0.00	3.51	770.44	0.65	0 12:05	0 00:00	0.00	0.00
52	D18	11.01	1.52	773.35	2.58	0.08	0.00	771.28	0.51	0 12:06	0 12:03	0.04	6.00
53	D19	7.49	0.94	773.46	2.41	0.41	0.00	771.51	0.46	0 12:07	0 12:02	0.19	11.00
54	D20	7.59	0.94	773.55	2.23	0.23	0.00	771.75	0.43	0 12:07	0 12:03	0.11	10.00
55	D21	3.40	1.52	773.57	1.97	0.00	0.03	771.93	0.33	0 12:06	0 00:00	0.00	0.00
56	D22	1.95	0.40	773.58	0.87	0.00	2.64	772.91	0.20	0 12:05	0 00:00	0.00	0.00
57	D23	1.58	0.16	773.80	0.54	0.00	2.89	773.43	0.17	0 12:01	0 00:00	0.00	0.00
58	D24	1.48	0.80	775.63	0.74	0.00	0.49	775.07	0.18	0 12:01	0 00:00	0.00	0.00
59	D25	0.70	0.70	776.73	0.40	0.00	0.60	776.45	0.12	0 12:00	0 00:00	0.00	0.00
60	D27	169.45	0.51	776.88	11.23	3.47	0.00	769.18	3.53	0 17:39	0 18:53	0.54	2.00
61	D28	507.06	0.36	784.70	18.98	11.29	0.00	769.30	3.58	0 18:53	0 18:52	3.04	3.00
62	D29	126.17	2.21	773.38	7.18	1.00	0.00	769.47	3.27	0 22:28	0 18:53	3.37	8.00
63	D30	130.07	1.36	774.76	8.29	2.14	0.00	769.52	3.05	0 16:39	0 16:39	1.97	29.00
64	D31	140.94	1.41	773.61	6.86	0.90	0.00	769.55	2.80	0 16:02	0 16:02	1.41	23.00
65	D32	51.08	1.46	772.97	5.95	0.15	0.00	769.57	2.55	0 22:37	0 16:02	0.44	15.00
66	D33	57.42	1.50	772.96	5.66	0.04	0.00	769.59	2.29	0 22:37	0 16:40	0.07	7.00
67	D34	36.87	1.59	773.02	5.45	0.00	0.00	769.61	2.04	0 16:03	0 16:03	0.05	0.00
68	D35	36.82	0.96	773.59	5.39	0.13	0.00	769.72	1.52	0 16:03	0 16:03	0.02	0.00
69	D36	34.32	0.31	772.90	4.49	0.00	3.38	769.80	1.39	0 22:35	0 00:00	0.00	0.00
70	D37	22.63	0.40	772.87	4.38	0.00	3.34	769.84	1.35	0 22:35	0 00:00	0.00	0.00
71	D38	21.35	2.17	772.85	4.00	0.00	0.15	769.97	1.12	0 11:59	0 00:00	0.00	0.00
72	D39	17.64	1.46	772.79	3.65	0.00	0.00	770.08	0.94	0 11:58	0 12:01	1.75	24.00
73	D40	10.89	1.46	773.08	3.16	0.00	0.42	770.69	0.77	0 11:58	0 00:00	0.00	0.00
74	D41	9.61	1.46	773.16	2.97	0.17	0.00	770.87	0.68	0 12:02	0 11:58	0.17	14.00
75	D42	7.54	1.45	773.24	2.77	0.00	0.76	771.08	0.61	0 11:58	0 00:00	0.00	0.00
76	D43	5.71	1.21	773.19	2.45	0.00	0.00	771.23	0.49	0 11:58	0 12:02	0.48	10.00
77	D44	3.66	1.97	773.55	2.67	0.00	0.00	771.32	0.44	0 11:58	0 11:58	0.00	0.00
78	D45	0.87	0.87	773.50	0.98	0.00	2.90	772.69	0.17	0 12:00	0 00:00	0.00	0.00
79	D46	2.71	0.60	772.93	1.00	0.00	3.08	772.17	0.24	0 22:35	0 00:00	0.00	0.00
80	D47	2.04	0.54	773.39	0.69	0.00	2.50	772.89	0.19	0 12:01	0 00:00	0.00	0.00
81	D48	1.42	0.49	773.70	0.62	0.00	0.65	773.24	0.16	0 12:01	0 00:00	0.00	0.00

Junction Results

SN	Element ID	Peak Inflow (cfs)	Peak Lateral Inflow (cfs)	Max HGL Elevation Attained (ft)	Max HGL Depth Attained (ft)	Max Surcharge Depth Attained (ft)	Min Freeboard Attained (ft)	Average HGL Elevation Attained (ft)	Average HGL Depth Attained (ft)	Time of Max HGL Occurrence (days hh:mm)	Time of Peak Flooding Occurrence (days hh:mm)	Total Flooded Volume (ac-in)	Total Time Flooded (min)
82	D49	0.95	0.42	774.20	0.57	0.00	0.43	773.77	0.14	0 12:00	0 00:00	0.00	0.00
83	D50	0.54	0.54	774.22	0.40	0.00	2.16	773.92	0.10	0 12:00	0 00:00	0.00	0.00
84	D51	0.61	0.61	775.66	0.37	0.00	1.19	775.40	0.11	0 12:00	0 00:00	0.00	0.00
85	D52	0.45	0.45	775.78	0.31	0.00	0.73	775.57	0.10	0 12:00	0 00:00	0.00	0.00
86	D53	0.54	0.54	774.26	0.37	0.00	1.31	773.99	0.10	0 12:00	0 00:00	0.00	0.00
87	D54	0.76	0.76	774.81	0.46	0.00	0.59	774.47	0.12	0 12:00	0 00:00	0.00	0.00
88	D55	0.69	0.69	775.71	0.39	0.00	0.61	775.44	0.12	0 12:00	0 00:00	0.00	0.00
89	D56	12.30	0.25	776.48	3.64	0.74	0.00	772.94	0.10	0 18:54	0 18:53	0.21	4.00
90	D58	5.88	1.72	768.00	1.00	0.00	0.00	767.98	0.98	0 04:04	0 23:12	60.76	1196.00
91	D60	82.83	1.70	773.70	7.95	0.00	0.00	770.82	5.07	0 04:38	0 04:56	0.76	2.00
92	D61	14.61	0.34	773.72	7.82	0.02	0.00	770.82	4.92	0 03:38	0 05:21	0.02	1.00
93	RD01	1.92	1.92	773.79	0.95	0.00	0.05	773.06	0.22	0 12:00	0 00:00	0.00	0.00
94	RD02	1.19	1.19	773.14	0.80	0.00	0.20	772.51	0.17	0 12:00	0 00:00	0.00	0.00
95	RD03	1.07	1.07	773.43	0.61	0.00	0.39	772.97	0.15	0 12:00	0 00:00	0.00	0.00
96	RD04	1.19	1.19	772.98	0.66	0.00	0.34	772.48	0.16	0 12:00	0 00:00	0.00	0.00
97	RD05	0.81	0.81	773.32	0.50	0.00	0.50	772.95	0.13	0 12:00	0 00:00	0.00	0.00
98	RD06	0.74	0.74	773.83	0.49	0.00	0.51	773.47	0.13	0 12:00	0 00:00	0.00	0.00
99	RD07	1.05	1.05	773.41	0.61	0.00	0.39	772.95	0.15	0 12:00	0 00:00	0.00	0.00
100	RD08	1.14	1.14	773.98	0.68	0.00	0.32	773.46	0.16	0 12:00	0 00:00	0.00	0.00
101	RD09	1.32	1.32	774.56	0.74	0.00	0.26	774.00	0.18	0 12:00	0 00:00	0.00	0.00
102	RD10	1.32	1.32	773.75	0.74	0.00	0.26	773.19	0.18	0 12:00	0 00:00	0.00	0.00
103	RD11	1.14	1.14	773.17	0.68	0.00	0.32	772.66	0.17	0 12:00	0 00:00	0.00	0.00
104	RD12	1.05	1.05	772.94	0.95	0.00	0.05	772.17	0.18	0 22:34	0 00:00	0.00	0.00
105	RD13	0.81	0.81	773.50	0.52	0.00	0.48	773.11	0.13	0 12:00	0 00:00	0.00	0.00
106	RD14	0.81	0.81	773.12	0.66	0.00	0.34	772.60	0.14	0 16:03	0 00:00	0.00	0.00
107	RD15	2.30	1.19	772.96	1.00	0.00	0.00	772.16	0.20	0 16:03	0 16:03	0.00	0.00
108	RD16	1.07	1.07	773.61	0.64	0.00	0.36	773.13	0.16	0 12:00	0 00:00	0.00	0.00
109	RD17	1.19	1.19	773.11	0.66	0.00	0.34	772.62	0.17	0 12:00	0 00:00	0.00	0.00
110	RD18	2.24	1.92	772.95	1.00	0.00	0.00	772.20	0.25	0 22:28	0 22:28	0.00	0.00
111	RD19	1.92	1.92	774.87	0.90	0.00	0.10	774.18	0.21	0 12:00	0 00:00	0.00	0.00
112	RD20	1.19	1.19	775.13	0.66	0.00	0.34	774.63	0.16	0 12:00	0 00:00	0.00	0.00
113	RD21	1.07	1.07	775.63	0.64	0.00	0.36	775.15	0.16	0 12:00	0 00:00	0.00	0.00
114	RD22	1.19	1.19	774.03	0.66	0.00	0.34	773.53	0.16	0 12:00	0 00:00	0.00	0.00
115	RD23	0.81	0.81	774.39	0.52	0.00	0.48	774.00	0.13	0 12:00	0 00:00	0.00	0.00
116	RD24	0.81	0.81	774.91	0.52	0.00	0.48	774.52	0.13	0 12:00	0 00:00	0.00	0.00
117	RD25	1.05	1.05	774.36	0.61	0.00	0.39	773.90	0.15	0 12:00	0 00:00	0.00	0.00
118	RD26	1.14	1.14	774.93	0.68	0.00	0.32	774.41	0.16	0 12:00	0 00:00	0.00	0.00
119	RD27	1.32	1.32	775.51	0.74	0.00	0.26	774.95	0.18	0 12:00	0 00:00	0.00	0.00
120	RD29	1.32	1.32	775.94	0.74	0.00	0.26	775.38	0.18	0 12:00	0 00:00	0.00	0.00
121	RD30	1.14	1.14	775.36	0.68	0.00	0.32	774.84	0.16	0 12:00	0 00:00	0.00	0.00
122	RD31	1.05	1.05	774.79	0.61	0.00	0.39	774.33	0.15	0 12:00	0 00:00	0.00	0.00
123	RD32	0.81	0.81	775.25	0.52	0.00	0.48	774.86	0.13	0 12:00	0 00:00	0.00	0.00
124	RD33	0.81	0.81	774.73	0.52	0.00	0.48	774.34	0.13	0 12:00	0 00:00	0.00	0.00
125	RD34	1.19	1.19	774.37	0.66	0.00	0.34	773.87	0.16	0 12:00	0 00:00	0.00	0.00
126	RD35	1.07	1.07	774.91	0.64	0.00	0.36	774.43	0.16	0 12:00	0 00:00	0.00	0.00
127	RD36	1.19	1.19	774.41	0.66	0.00	0.34	773.91	0.16	0 12:00	0 00:00	0.00	0.00
128	RD37	1.92	1.92	774.15	0.90	0.00	0.10	773.46	0.21	0 12:00	0 00:00	0.00	0.00

Pipe Input

SN	Element ID	Length (ft)	Inlet Invert Elevation (ft)	Inlet Invert Offset (ft)	Outlet Invert Elevation (ft)	Outlet Invert Offset (ft)	Total Drop (ft)	Average Slope (%)	Pipe Shape	Pipe Diameter or Height (in)	Pipe Width (in)	Manning's Roughness	Entrance Losses	Exit/Bend Losses	Additional Losses	Initial Flow (cfs)	Flap Gate	No. of Barrels
1	Link-01	49.90	771.00	5.25	767.00	-1.00	4.00	8.0200	CIRCULAR	12.000	12.000	0.0150	0.5000	0.5000	0.0000	0.00	No	1
2	Link-02	30.20	765.90	0.00	765.75	0.00	0.15	0.5000	CIRCULAR	12.000	12.000	0.0150	0.5000	0.5000	0.0000	0.00	No	1
3	Link-03	54.17	767.94	0.00	767.40	3.00	0.54	1.0000	CIRCULAR	24.000	24.000	0.0150	0.5000	0.5000	0.0000	0.00	No	1
4	P(100)	49.86	773.95	0.00	773.45	0.25	0.50	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
5	P(101)	52.12	774.72	0.00	774.20	0.25	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
6	P(102)	5.00	774.77	0.00	774.72	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
7	P(103)	5.00	774.25	0.00	774.20	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
8	P(104)	5.00	773.75	0.00	773.70	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
9	P(105)	90.03	771.40	0.00	770.50	4.30	0.90	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
10	P(106)	49.86	772.15	0.00	771.65	0.25	0.50	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
11	P(107)	52.12	772.92	0.00	772.40	0.25	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
12	P(108)	5.00	772.97	0.00	772.92	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
13	P(109)	5.00	772.45	0.00	772.40	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
14	P(110)	5.00	771.95	0.00	771.90	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
15	P(111)	91.03	771.41	0.00	770.50	3.75	0.91	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
16	P(112)	49.86	772.16	0.00	771.66	0.25	0.50	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
17	P(113)	52.12	772.93	0.00	772.41	0.25	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
18	P(114)	5.00	772.98	0.00	772.93	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
19	P(115)	5.00	772.46	0.00	772.41	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
20	P(116)	5.00	771.96	0.00	771.91	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
21	P(117)	94.06	771.44	0.00	770.50	3.20	0.94	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
22	P(118)	49.86	772.19	0.00	771.69	0.25	0.50	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
23	P(119)	52.12	772.96	0.00	772.44	0.25	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
24	P(120)	5.00	773.01	0.00	772.96	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
25	P(121)	5.00	772.49	0.00	772.44	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
26	P(122)	5.00	771.99	0.00	771.94	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
27	P(123)	120.37	772.70	0.00	771.50	2.65	1.20	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
28	P(124)	49.86	773.45	0.00	772.95	0.25	0.50	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
29	P(125)	52.12	774.22	0.00	773.70	0.25	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
30	P(126)	5.00	774.27	0.00	774.22	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
31	P(127)	5.00	773.75	0.00	773.70	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
32	P(128)	5.00	773.25	0.00	773.20	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
33	P(129)	115.56	773.16	0.00	772.00	2.08	1.16	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
34	P(130)	49.86	773.90	0.00	773.41	0.25	0.49	0.9800	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
35	P(131)	52.12	774.68	0.00	774.16	0.26	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
36	P(132)	5.00	774.73	0.00	774.68	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
37	P(133)	5.03	774.21	0.00	774.16	0.26	0.05	0.9900	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
38	P(134)	5.00	773.71	0.00	773.66	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
39	P(135)	113.42	773.63	0.00	772.50	2.03	1.13	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
40	P(136)	49.86	774.38	0.00	773.88	0.25	0.50	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
41	P(137)	52.12	775.15	0.00	774.63	0.25	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
42	P(138)	5.00	775.20	0.00	775.15	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
43	P(139)	5.00	774.68	0.00	774.63	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
44	P(140)	5.00	774.18	0.00	774.13	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
45	P(15)	58.56	767.00	0.00	765.50	-2.50	1.50	2.5600	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
46	P(16)	123.16	766.37	0.00	766.06	0.00	0.31	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
47	P(16) (1)	226.84	766.94	0.00	766.37	0.00	0.57	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
48	P(17)	110.00	767.21	-0.50	766.94	0.00	0.27	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
49	P(18)	110.00	767.99	0.50	767.21	-0.50	0.78	0.7100	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
50	P(19)	110.00	768.26	0.00	767.99	0.50	0.27	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
51	P(20)	110.00	768.54	0.00	768.26	0.00	0.28	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
52	P(23)	192.59	770.77	0.00	770.29	0.50	0.48	0.2500	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
53	P(24)	110.00	771.05	0.00	770.77	0.00	0.28	0.2500	CIRCULAR	24.000	24.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
54	P(25)	110.00	771.32	0.00	771.05	0.00	0.27	0.2500	CIRCULAR	24.000	24.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
55	P(26)	110.00	771.60	0.00	771.32	0.00	0.28	0.2500	CIRCULAR	24.000	24.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
56	P(27)	121.80	772.71	0.00	772.10	0.50	0.61	0.5000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
57	P(28)	110.16	773.26	0.00	772.71	0.00	0.55	0.5000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
58	P(29)	113.60	774.89	0.00	773.76	0.50	1.13	0.9900	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
59	P(30)	144.00	776.33	0.00	774.89	0.00	1.44	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
60	P(31)	58.17	765.65	0.00	765.50	-2.50	0.15	0.2600	CIRCULAR	48.000	48.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
61	P(32)	30.00	765.72	0.00	765.65	0.00	0.07	0.2300	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
62	P(33)	191.79	766.20	0.00	765.72	0.00	0.48	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
63	P(34)	110.00	766.47	0.00	766.20	0.00	0.27	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
64	P(35)	110.00	766.75	0.00	766.47	0.00	0.28	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
65	P(36)	110.00	767.02	0.00	766.75	0.00	0.27	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
66	P(37)	110.00	767.30	0.00	767.02	0.00	0.28	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
67	P(38)	110.00	767.57	0.00	767.30	0.00	0.27	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
68	P(39)	50.09	768.20	0.00	768.07	0.50	0.13	0.2600	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
69	P(39) (1)	84.79	768.41	0.00	768.20	0.00	0.21	0.2500	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
70	P(40)	30.63	768.49	0.00	768.41	0.00	0.08	0.2600	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
71	P(41)	145.53	768.85	0.00	768.49	0.00	0.36	0.2500	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
72	P(42)	115.67	769.14	0.00	768.85	0.00	0.29	0.2500	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
73	P(43)	110.00	769.92	0.00	769.64	0.50	0.28	0.2500	CIRCULAR	24.000	24.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
74	P(44)	110.00	770.19	0.00	769.92	0.00	0.27	0.2500	CIRCULAR	24.000	24.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
75	P(45)	110.00	770.47	0.00	770.19	0.00	0.28	0.2500	CIRCULAR	24.000	24.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
76	P(46)	110.00	770.74	0.00	770.47	0.00	0.27	0.2500	CIRCULAR	24.000	24.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
77	P(47)	55.00	770.88	0.00	770.74	0.00	0.14	0.2500	CIRCULAR	24.000	24.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
78	P(48)	255.74	772.52	0.00	771.88	1.00	0.64	0.2500	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
79	P(49)	100.80	768.79	0.00	768.54	0.00	0.25	0.2500	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
80	P(50)	152.05	769.17	0.00	768.79	0.00	0.38	0.2500	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
81	P(51)	108.00	773.89	0.00	772.81	3.64	1.08	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
82	P(53)	70.60	769.52	0.00	769.34	0.00	0.18	0.2500	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1

Pipe Input

SN	Element ID	Length (ft)	Inlet Invert Elevation (ft)	Inlet Invert Offset (ft)	Outlet Invert Elevation (ft)	Outlet Invert Offset (ft)	Total Drop (ft)	Average Slope (%)	Pipe Shape	Pipe Diameter or Height (in)	Pipe Width (in)	Manning's Roughness	Entrance Losses	Exit/Bend Losses	Additional Losses	Initial Flow (cfs)	Flap Gate	No. of Barrels
83	P(54)	117.00	775.47	0.00	774.30	4.96	1.17	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
84	P(55)	163.40	775.29	0.00	773.65	5.16	1.64	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
85	P(56)	161.45	771.93	0.00	770.31	1.90	1.62	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
86	P(57)	76.76	772.70	0.00	771.93	0.00	0.77	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
87	P(58)	13.14	773.08	0.00	772.95	0.25	0.13	0.9900	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
88	P(59)	29.92	773.63	0.00	773.33	0.25	0.30	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
89	P(60)	13.28	773.82	0.00	773.63	0.00	0.19	1.4300	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
90	P(61)	52.97	765.63	0.63	765.50	-2.50	0.13	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
91	P(62)	82.14	765.83	-0.01	765.63	0.63	0.20	0.2400	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
92	P(63)	90.00	766.05	-0.01	765.83	-0.01	0.22	0.2400	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
93	P(64)	108.60	769.79	0.00	769.52	0.00	0.27	0.2500	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
94	P(65)	67.82	775.32	0.00	774.64	5.47	0.68	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
95	P(66)	82.14	774.35	0.00	772.71	7.71	1.64	2.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
96	P(67)	46.08	770.84	-2.00	769.92	4.20	0.92	2.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
97	P(68)	69.52	769.34	0.00	769.17	0.00	0.17	0.2400	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
98	P(69)	127.13	771.27	0.00	770.00	3.06	1.27	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
99	P(70)	52.12	772.04	0.00	771.52	0.25	0.52	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
100	P(71)	49.86	772.79	0.00	772.29	0.25	0.50	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
101	P(72)	5.00	772.84	0.00	772.79	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
102	P(73)	5.00	772.34	0.00	772.29	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
103	P(74)	5.00	772.82	0.00	772.77	1.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
104	P(75)	126.56	771.77	0.00	770.50	2.79	1.27	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
105	P(76)	49.86	772.51	0.00	772.02	0.25	0.49	0.9800	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
106	P(77)	52.12	773.29	0.00	772.77	0.26	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
107	P(78)	5.00	773.34	0.00	773.29	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
108	P(79)	5.00	772.82	0.00	772.77	0.26	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
109	P(80)	5.00	772.32	0.00	772.27	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
110	P(81)	125.15	772.25	0.00	771.00	2.74	1.25	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
111	P(82)	49.86	773.00	0.00	772.50	0.25	0.50	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
112	P(83)	52.12	773.77	0.00	773.25	0.25	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
113	P(84)	5.00	773.82	0.00	773.77	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
114	P(85)	5.00	773.30	0.00	773.25	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
115	P(86)	5.00	772.80	0.00	772.75	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
116	P(87)	92.04	773.42	0.00	772.50	2.71	0.92	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
117	P(88)	49.86	774.17	0.00	773.67	0.25	0.50	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
118	P(89)	52.12	774.94	0.00	774.42	0.25	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
119	P(90)	5.00	774.99	0.00	774.94	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
120	P(91)	5.00	774.47	0.00	774.42	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
121	P(92)	5.00	773.97	0.00	773.92	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
122	P(93)	154.50	772.82	0.00	771.27	0.50	1.55	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
123	P(94)	49.86	773.57	0.00	773.07	0.25	0.50	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
124	P(95)	52.12	774.34	0.00	773.82	0.25	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
125	P(96)	5.00	774.39	0.00	774.34	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
126	P(97)	5.00	773.87	0.00	773.82	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
127	P(98)	5.00	773.37	0.00	773.32	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
128	P(99)	137.40	773.20	0.00	771.82	0.50	1.38	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1

Pipe Results

SN	Element ID	Peak Flow (cfs)	Time of Peak Flow Occurrence (days hh:mm)	Design Flow Capacity (cfs)	Peak Flow/ Design Flow Ratio	Peak Flow Velocity (ft/sec)	Travel Time (min)	Peak Flow Depth (ft)	Peak Flow Depth/ Total Depth Ratio	Total Time Surcharged (min)	Froude Number	Reported Condition
1	Link-01	23.63	0 05:38	7.57	3.12	50.00	0.02	0.66	0.67	0.00		> CAPACITY
2	Link-02	82.82	0 04:56	2.18	38.06	50.00	0.01	1.00	1.00	1146.00		SURCHARGED
3	Link-03	9.37	0 00:00	19.58	0.48	5.91	0.15	0.37	0.66	0.00		Calculated
4	P(100)	2.41	0 12:00	7.01	0.34	3.28	0.25	0.82	0.67	0.00		Calculated
5	P(101)	1.30	0 12:00	3.86	0.34	2.91	0.30	0.67	0.68	0.00		Calculated
6	P(102)	1.31	0 12:00	3.86	0.34	2.27	0.04	0.71	0.72	0.00		Calculated
7	P(103)	1.13	0 12:00	3.86	0.29	2.76	0.03	0.66	0.67	0.00		Calculated
8	P(104)	1.04	0 12:00	3.86	0.27	2.94	0.03	0.55	0.56	0.00		Calculated
9	P(105)	7.95	0 22:28	11.38	0.70	4.65	0.32	1.50	1.00	13.00		SURCHARGED
10	P(106)	2.22	0 12:00	7.01	0.32	3.04	0.27	1.02	0.87	0.00		Calculated
11	P(107)	1.05	0 12:00	3.86	0.27	2.74	0.32	0.60	0.61	0.00		Calculated
12	P(108)	1.06	0 12:00	3.86	0.28	2.28	0.04	0.62	0.63	0.00		Calculated
13	P(109)	1.19	0 12:00	3.86	0.31	2.85	0.03	0.63	0.66	0.00		Calculated
14	P(110)	2.22	0 22:28	3.86	0.58	3.09	0.03	0.98	1.00	0.00		SURCHARGED
15	P(111)	8.53	0 16:03	11.38	0.75	4.94	0.31	1.50	1.00	12.00		SURCHARGED
16	P(112)	1.99	0 16:03	7.01	0.28	3.11	0.27	1.01	0.87	0.00		Calculated
17	P(113)	0.88	0 12:00	3.86	0.23	2.79	0.31	0.45	0.47	0.00		Calculated
18	P(114)	0.81	0 12:00	3.86	0.21	2.27	0.04	0.50	0.51	0.00		Calculated
19	P(115)	0.84	0 11:59	3.86	0.22	2.82	0.03	0.50	0.66	0.00		Calculated
20	P(116)	2.28	0 16:03	3.86	0.59	3.18	0.03	0.98	1.00	0.00		SURCHARGED
21	P(117)	4.35	0 16:40	11.38	0.38	3.62	0.43	1.50	1.00	5.00		SURCHARGED
22	P(118)	2.41	0 12:00	7.01	0.34	3.28	0.25	1.01	0.81	0.00		Calculated
23	P(119)	1.30	0 12:00	3.86	0.34	2.91	0.30	0.67	0.68	0.00		Calculated
24	P(120)	1.31	0 12:00	3.86	0.34	2.27	0.04	0.71	0.72	0.00		Calculated
25	P(121)	1.13	0 12:00	3.86	0.29	2.76	0.03	0.66	0.67	0.00		Calculated
26	P(122)	1.04	0 12:00	3.86	0.27	2.94	0.03	0.98	0.98	0.00		Calculated
27	P(123)	4.08	0 12:00	11.36	0.36	3.62	0.55	1.20	0.82	0.00		Calculated
28	P(124)	2.22	0 12:00	7.01	0.32	3.05	0.27	0.86	0.70	0.00		Calculated
29	P(125)	1.05	0 12:00	3.86	0.27	2.74	0.32	0.60	0.61	0.00		Calculated
30	P(126)	1.06	0 12:00	3.86	0.28	2.28	0.04	0.62	0.63	0.00		Calculated
31	P(127)	1.19	0 12:00	3.86	0.31	2.85	0.03	0.63	0.63	0.00		Calculated
32	P(128)	1.91	0 12:00	3.86	0.49	3.07	0.03	0.75	0.76	0.00		Calculated
33	P(129)	2.72	0 12:00	11.40	0.24	3.54	0.54	0.96	0.65	0.00		Calculated
34	P(130)	1.58	0 12:00	6.94	0.23	3.11	0.27	0.64	0.53	0.00		Calculated
35	P(131)	0.88	0 12:00	3.86	0.23	2.81	0.31	0.45	0.47	0.00		Calculated
36	P(132)	0.81	0 12:00	3.86	0.21	2.27	0.04	0.50	0.51	0.00		Calculated
37	P(133)	0.84	0 11:59	3.85	0.22	2.82	0.03	0.46	0.48	0.00		Calculated
38	P(134)	1.19	0 12:00	3.86	0.31	2.94	0.03	0.52	0.52	0.00		Calculated
39	P(135)	3.42	0 12:00	11.36	0.30	3.62	0.52	0.84	0.58	0.00		Calculated
40	P(136)	2.41	0 12:00	7.01	0.34	3.28	0.25	0.82	0.67	0.00		Calculated
41	P(137)	1.30	0 12:00	3.86	0.34	2.91	0.30	0.67	0.68	0.00		Calculated
42	P(138)	1.31	0 12:00	3.86	0.34	2.27	0.04	0.71	0.72	0.00		Calculated
43	P(139)	1.13	0 12:00	3.86	0.29	2.76	0.03	0.66	0.67	0.00		Calculated
44	P(140)	1.04	0 12:00	3.86	0.27	2.94	0.03	0.55	0.56	0.00		Calculated
45	P(15)	5.86	0 23:12	5.04	1.16	7.46	0.13	1.00	1.00	719.00		SURCHARGED
46	P(16)	25.23	0 12:02	36.25	0.70	3.57	0.57	3.00	1.00	380.00		SURCHARGED
47	P(16) (1)	25.23	0 12:02	36.22	0.70	3.57	1.06	3.00	1.00	90.00		SURCHARGED
48	P(17)	20.88	0 12:06	60.45	0.35	2.95	0.62	3.00	1.00	17.00		SURCHARGED
49	P(18)	18.07	0 12:06	36.46	0.50	2.56	0.72	3.00	1.00	15.00		SURCHARGED
50	P(19)	17.55	0 12:07	35.80	0.49	2.50	0.73	3.00	1.00	14.00		SURCHARGED
51	P(20)	15.03	0 12:11	36.46	0.41	2.45	0.75	3.00	1.00	12.00		SURCHARGED
52	P(23)	11.45	0 12:11	22.18	0.52	3.73	0.86	2.50	1.00	6.00		SURCHARGED
53	P(24)	9.55	0 12:11	12.36	0.77	3.04	0.60	2.00	1.00	11.00		SURCHARGED
54	P(25)	6.64	0 12:02	12.14	0.55	2.68	0.68	2.00	1.00	10.00		SURCHARGED
55	P(26)	3.48	0 12:13	12.36	0.28	1.64	1.12	1.97	0.99	0.00		Calculated
56	P(27)	2.02	0 12:02	8.05	0.25	2.91	0.70	1.14	0.78	0.00		Calculated
57	P(28)	1.58	0 12:01	8.04	0.20	2.46	0.75	0.68	0.46	0.00		Calculated
58	P(29)	1.43	0 12:01	3.85	0.37	3.02	0.63	0.56	0.58	0.00		Calculated
59	P(30)	0.69	0 12:00	3.86	0.18	1.54	1.56	0.56	0.57	0.00		Calculated
60	P(31)	606.96	0 17:39	312.78	1.94	50.00	0.02	3.11	0.78	0.00		> CAPACITY
61	P(32)	493.06	0 18:52	34.90	14.13	50.00	0.01	3.00	1.00	745.00		SURCHARGED
62	P(33)	126.14	0 18:53	36.15	3.49	17.85	0.18	3.00	1.00	724.00		SURCHARGED
63	P(34)	130.04	0 16:39	35.80	3.63	18.54	0.10	3.00	1.00	327.00		SURCHARGED
64	P(35)	140.79	0 16:02	36.46	3.86	20.67	0.09	3.00	1.00	154.00		SURCHARGED
65	P(36)	51.05	0 16:03	35.80	1.43	7.22	0.25	3.00	1.00	143.00		SURCHARGED
66	P(37)	57.33	0 16:03	36.46	1.57	8.11	0.23	3.00	1.00	88.00		SURCHARGED
67	P(38)	36.85	0 16:03	35.80	1.03	5.21	0.35	3.00	1.00	81.00		SURCHARGED
68	P(39)	36.81	0 16:03	22.64	1.63	7.51	0.11	2.50	1.00	78.00		SURCHARGED
69	P(39) (1)	34.26	0 16:03	22.11	1.55	7.59	0.19	2.50	1.00	74.00		SURCHARGED
70	P(40)	22.61	0 16:03	22.71	1.00	5.23	0.10	2.50	1.00	73.00		SURCHARGED
71	P(41)	21.24	0 16:04	22.10	0.96	4.63	0.52	2.50	1.00	67.00		SURCHARGED
72	P(42)	17.61	0 16:04	22.25	0.79	3.97	0.49	2.50	1.00	63.00		SURCHARGED
73	P(43)	10.81	0 16:42	12.36	0.87	4.46	0.41	2.00	1.00	59.00		SURCHARGED
74	P(44)	9.60	0 22:31	12.14	0.79	3.61	0.51	2.00	1.00	51.00		SURCHARGED
75	P(45)	7.56	0 12:10	12.36	0.61	3.30	0.56	2.00	1.00	42.00		SURCHARGED
76	P(46)	5.70	0 22:32	12.14	0.47	2.84	0.65	2.00	1.00	28.00		SURCHARGED
77	P(47)	3.64	0 22:32	12.36	0.29	2.29	0.40	2.00	1.00	14.00		SURCHARGED
78	P(48)	1.08	0 12:00	1.93	0.56	2.25	1.89	0.99	0.99	0.00		Calculated
79	P(49)	14.63	0 12:11	22.13	0.66	3.06	0.55	2.50	1.00	16.00		SURCHARGED
80	P(50)	14.50	0 12:11	22.21	0.65	3.12	0.81	2.50	1.00	15.00		SURCHARGED
81	P(51)	0.66	0 12:00	11.38	0.06	2.51	0.72	0.31	0.21	0.00		Calculated

Pipe Results

SN	Element ID	Peak Flow (cfs)	Time of Peak Flow Occurrence (days hh:mm)	Design Flow Capacity (cfs)	Peak Flow/ Design Flow Ratio	Peak Flow Velocity (ft/sec)	Travel Time (min)	Peak Flow Depth (ft)	Peak Flow Depth/ Total Depth Ratio	Total Time Surcharged (min)	Froude Number	Reported Condition
82	P(53)	13.30	0 12:11	22.44	0.59	2.86	0.41	2.50	1.00	14.00		SURCHARGED
83	P(54)	0.44	0 12:00	3.86	0.11	2.55	0.76	0.27	0.27	0.00		Calculated
84	P(55)	0.59	0 12:00	3.87	0.15	2.78	0.98	0.31	0.32	0.00		Calculated
85	P(56)	2.51	0 12:00	11.40	0.22	3.32	0.81	1.23	0.83	0.00		Calculated
86	P(57)	2.12	0 12:00	11.40	0.19	2.45	0.52	0.74	0.51	0.00		Calculated
87	P(58)	1.49	0 12:00	6.96	0.21	3.26	0.07	0.51	0.42	0.00		Calculated
88	P(59)	0.94	0 12:00	3.86	0.24	2.94	0.17	0.47	0.47	0.00		Calculated
89	P(60)	0.54	0 12:00	4.62	0.12	1.66	0.13	0.48	0.48	0.00		Calculated
90	P(61)	27.13	0 12:02	152.83	0.18	8.00	0.11	2.61	0.87	0.00		Calculated
91	P(62)	31.69	0 22:13	36.53	0.87	5.47	0.25	3.00	1.00	730.00		SURCHARGED
92	P(63)	25.67	0 12:02	35.72	0.72	5.09	0.29	3.00	1.00	728.00		SURCHARGED
93	P(64)	13.25	0 12:11	22.16	0.60	3.02	0.60	2.50	1.00	14.00		SURCHARGED
94	P(65)	0.68	0 12:00	3.86	0.17	2.88	0.39	0.34	0.34	0.00		Calculated
95	P(66)	0.77	0 12:00	5.45	0.14	3.26	0.42	0.33	0.35	0.00		Calculated
96	P(67)	12.29	0 18:53	9.72	1.27	23.09	0.03	1.00	1.00	4.00		SURCHARGED
97	P(68)	13.72	0 12:11	21.97	0.62	3.01	0.38	2.50	1.00	14.00		SURCHARGED
98	P(69)	4.08	0 12:00	11.37	0.36	3.62	0.59	1.25	0.88	0.00		Calculated
99	P(70)	3.06	0 12:00	6.99	0.44	3.28	0.26	0.95	0.77	0.00		Calculated
100	P(71)	1.90	0 12:00	3.87	0.49	2.94	0.28	0.83	0.84	0.00		Calculated
101	P(72)	1.91	0 12:00	3.86	0.49	2.54	0.03	0.91	0.92	0.00		Calculated
102	P(73)	1.18	0 12:00	3.86	0.31	2.62	0.03	0.79	0.79	0.00		Calculated
103	P(74)	1.06	0 12:00	3.86	0.28	2.94	0.03	0.49	0.49	0.00		Calculated
104	P(75)	2.65	0 12:00	11.40	0.23	3.62	0.58	1.11	0.79	0.00		Calculated
105	P(76)	1.54	0 12:00	6.94	0.22	3.09	0.27	0.61	0.49	0.00		Calculated
106	P(77)	0.78	0 12:00	3.86	0.20	2.78	0.31	0.39	0.41	0.00		Calculated
107	P(78)	0.74	0 11:59	3.86	0.19	2.26	0.04	0.45	0.48	0.00		Calculated
108	P(79)	0.87	0 12:00	3.86	0.23	2.85	0.03	0.43	0.43	0.00		Calculated
109	P(80)	1.19	0 12:00	3.86	0.31	2.94	0.03	0.52	0.52	0.00		Calculated
110	P(81)	3.41	0 12:00	11.37	0.30	3.62	0.58	1.08	0.77	0.00		Calculated
111	P(82)	2.41	0 12:00	7.01	0.34	3.28	0.25	0.82	0.67	0.00		Calculated
112	P(83)	1.30	0 12:00	3.86	0.34	2.91	0.30	0.67	0.68	0.00		Calculated
113	P(84)	1.31	0 12:00	3.86	0.34	2.27	0.04	0.71	0.72	0.00		Calculated
114	P(85)	1.13	0 12:00	3.86	0.29	2.76	0.03	0.66	0.67	0.00		Calculated
115	P(86)	1.04	0 12:00	3.86	0.27	2.94	0.03	0.55	0.56	0.00		Calculated
116	P(87)	4.06	0 12:00	11.38	0.36	3.79	0.40	0.87	0.59	0.00		Calculated
117	P(88)	2.22	0 12:00	7.01	0.32	3.04	0.27	0.85	0.70	0.00		Calculated
118	P(89)	1.05	0 12:00	3.86	0.27	2.74	0.32	0.60	0.61	0.00		Calculated
119	P(90)	1.06	0 12:00	3.86	0.28	2.28	0.04	0.62	0.63	0.00		Calculated
120	P(91)	1.19	0 12:00	3.86	0.31	2.85	0.03	0.63	0.63	0.00		Calculated
121	P(92)	1.91	0 12:00	3.86	0.49	3.07	0.03	0.75	0.76	0.00		Calculated
122	P(93)	2.70	0 12:01	11.40	0.24	3.03	0.85	1.15	0.79	0.00		Calculated
123	P(94)	1.58	0 12:00	7.01	0.23	3.10	0.27	0.63	0.53	0.00		Calculated
124	P(95)	0.88	0 12:00	3.86	0.23	2.79	0.31	0.45	0.47	0.00		Calculated
125	P(96)	0.81	0 12:00	3.86	0.21	2.27	0.04	0.50	0.51	0.00		Calculated
126	P(97)	0.84	0 11:59	3.86	0.22	2.82	0.03	0.46	0.48	0.00		Calculated
127	P(98)	1.19	0 12:00	3.86	0.31	2.94	0.03	0.52	0.52	0.00		Calculated
128	P(99)	3.41	0 12:00	11.40	0.30	3.47	0.66	1.20	0.83	0.00		Calculated

Storage Nodes

Storage Node : POND

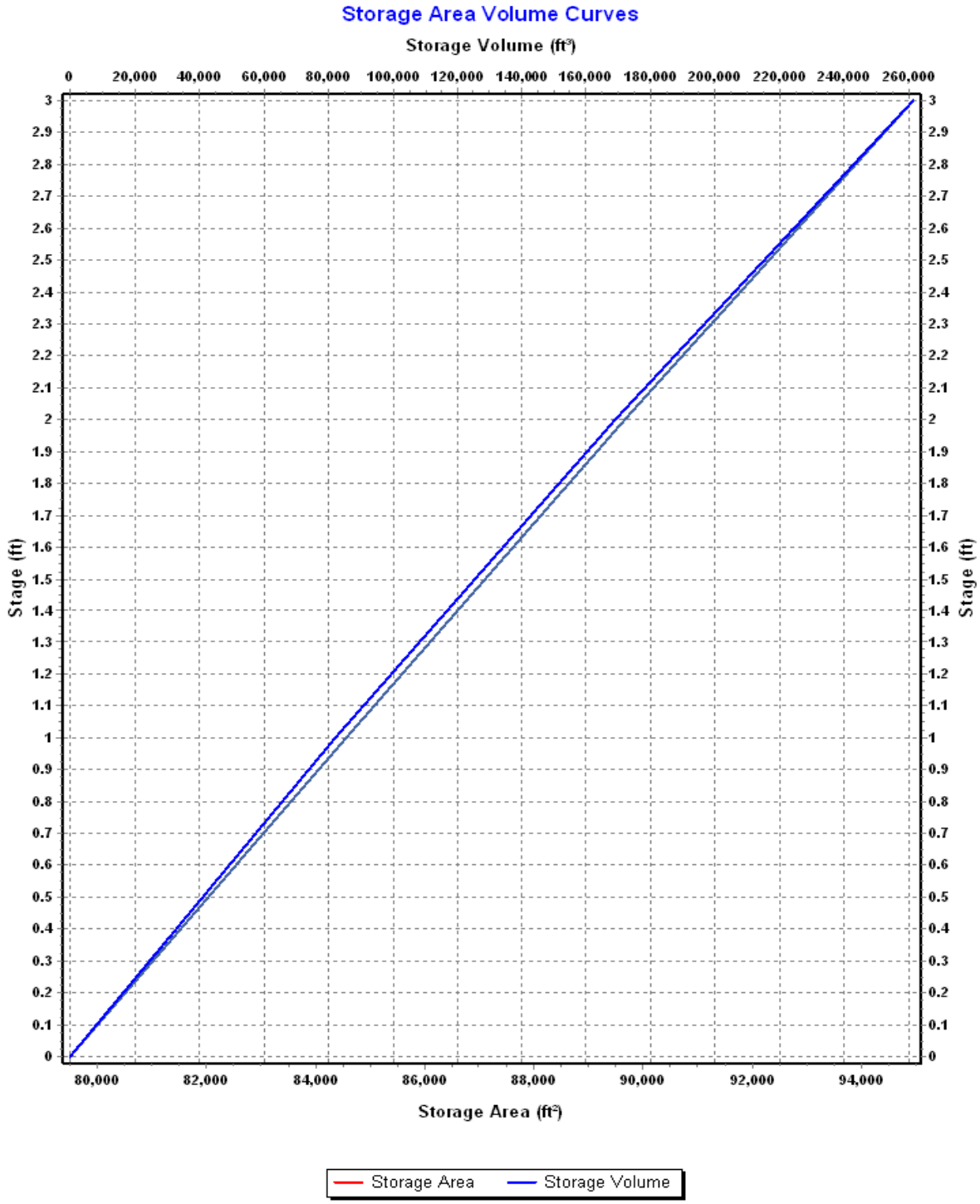
Input Data

Invert Elevation (ft) 768.00
Max (Rim) Elevation (ft) 772.00
Max (Rim) Offset (ft) 4.00
Initial Water Elevation (ft) 768.00
Initial Water Depth (ft) 0.00
Ponded Area (ft²) 100290.00
Evaporation Loss 0.00

Storage Area Volume Curves

Storage Curve : Storage-POND

Stage (ft)	Storage Area (ft²)	Storage Volume (ft³)
0	79508	0.000
1	84543	82025.50
2	89680	169137.00
3	94939	261446.50


Storage Area Volume Curves
Storage Volume (ft³)
0
20,000
40,000
60,000
80,000
100,000
120,000
140,000
160,000
180,000
200,000
220,000
240,000
260,000
Stage (ft)
3
2.9
2.8
2.7
2.6
2.5
2.4
2.3
2.2
2.1
2
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
80,000
82,000
84,000
86,000
88,000
90,000
92,000
94,000
Storage Area (ft²)
Storage Area
Storage Volume

Storage Node : POND (continued)

Outflow Weirs

SN	Element ID	Weir Type	Flap Gate	Crest Elevation (ft)	Crest Offset (ft)	Length (ft)	Weir Total Height (ft)	Discharge Coefficient
1	Weir-RIM	Rectangular	No	770.50	2.50	8.00	1.00	3.33
2	Weir-Spillway	Rectangular	No	771.50	3.50	20.00	0.60	3.33

Outflow Orifices

SN	Element ID	Orifice Type	Orifice Shape	Flap Gate	Circular Orifice Diameter (in)	Rectangular Orifice Height (in)	Rectangular Orifice Width (in)	Orifice Invert Elevation (ft)	Orifice Coefficient
1	Orifice-WQv	Side	CIRCULAR	No	6.10			768.00	0.61

Output Summary Results

Peak Inflow (cfs)	607.02
Peak Lateral Inflow (cfs)	1.32
Peak Outflow (cfs)	26.56
Peak Exfiltration Flow Rate (cfm)	0.00
Max HGL Elevation Attained (ft)	770.22
Max HGL Depth Attained (ft)	2.22
Average HGL Elevation Attained (ft)	768.99
Average HGL Depth Attained (ft)	0.99
Time of Max HGL Occurrence (days hh:mm)	0 23:12
Total Exfiltration Volume (1000-ft³)	0.000
Total Flooded Volume (ac-in)	0
Total Time Flooded (min)	0
Total Retention Time (sec)	0.00

Project Description

File Name ..... 2015-10-21_DESIGN.SPF

Project Options

Flow Units ..... CFS
Elevation Type ..... Elevation
Hydrology Method ..... SCS TR-55
Time of Concentration (TOC) Method ..... SCS TR-55
Link Routing Method ..... Hydrodynamic
Enable Overflow Ponding at Nodes ..... YES
Skip Steady State Analysis Time Periods ..... NO

Analysis Options

Start Analysis On ..... Sep 27, 2015 00:00:00
End Analysis On ..... Sep 28, 2015 00:00:00
Start Reporting On ..... Sep 27, 2015 00:00:00
Antecedent Dry Days ..... 0 days
Runoff (Dry Weather) Time Step ..... 0 01:00:00 days hh:mm:ss
Runoff (Wet Weather) Time Step ..... 0 00:05:00 days hh:mm:ss
Reporting Time Step ..... 0 00:05:00 days hh:mm:ss
Routing Time Step ..... 30 seconds

Number of Elements

	Qty
Rain Gages	1
Subbasins	91
Nodes	130
Junctions	128
Outfalls	1
Flow Diversions	0
Inlets	0
Storage Nodes	1
Links	131
Channels	0
Pipes	128
Pumps	0
Orifices	1
Weirs	2
Outlets	0
Pollutants	0
Land Uses	0

Rainfall Details

SN	Rain Gage ID	Data Source	Data Source ID	Rainfall Type	Rain Units	State	County	Return Period (years)	Rainfall Depth (inches)	Rainfall Distribution
1	Rain Gage-01	Time Series	TS-002	Cumulative	inches	Ohio	Franklin	2	2.60	SCS Type II 24-hr

Subbasin Summary

SN	Subbasin ID	Area (ac)	Weighted Curve Number	Total Rainfall (in)	Total Runoff (in)	Total Runoff Volume (ac-in)	Peak Runoff (cfs)	Time of Concentration (days hh:mm:ss)
1	Sub-D04	0.10	98.00	2.60	2.36	0.24	0.34	0 00:05:00
2	Sub-D05	0.18	98.00	2.60	2.37	0.43	0.60	0 00:05:00
3	Sub-D06	0.17	98.00	2.60	2.37	0.40	0.58	0 00:05:00
4	Sub-D08	0.41	98.00	2.60	2.37	0.97	1.38	0 00:05:00
5	Sub-D09	0.33	98.00	2.60	2.37	0.78	1.12	0 00:05:00
6	Sub-D10	0.33	98.00	2.60	2.37	0.78	1.12	0 00:05:00
7	Sub-D11	0.33	98.00	2.60	2.37	0.78	1.12	0 00:05:00
8	Sub-D12	0.22	98.00	2.60	2.37	0.52	0.73	0 00:05:00
9	Sub-D13	0.18	98.00	2.60	2.37	0.43	0.60	0 00:05:00
10	Sub-D14	0.22	98.00	2.60	2.37	0.52	0.73	0 00:05:00
11	Sub-D15	0.12	98.00	2.60	2.37	0.28	0.41	0 00:05:00
12	Sub-D16	0.06	98.00	2.60	2.35	0.14	0.19	0 00:05:00
13	Sub-D17	0.16	98.00	2.60	2.37	0.38	0.54	0 00:05:00
14	Sub-D18	0.54	98.00	2.60	2.37	1.28	1.81	0 00:05:00
15	Sub-D19	0.33	98.00	2.60	2.37	0.78	1.12	0 00:05:00
16	Sub-D20	0.33	98.00	2.60	2.37	0.78	1.12	0 00:05:00
17	Sub-D21	0.54	98.00	2.60	2.37	1.28	1.81	0 00:05:00
18	Sub-D22	0.14	98.00	2.60	2.37	0.33	0.47	0 00:05:00
19	Sub-D23	0.06	98.00	2.60	2.35	0.14	0.19	0 00:05:00
20	Sub-D24	0.28	98.00	2.60	2.37	0.66	0.95	0 00:05:00
21	Sub-D25	0.25	98.00	2.60	2.37	0.59	0.84	0 00:05:00
22	Sub-D27	0.18	98.00	2.60	2.37	0.43	0.60	0 00:05:00
23	Sub-D28	0.13	98.00	2.60	2.37	0.31	0.43	0 00:05:00
24	Sub-D29	0.78	98.00	2.60	2.37	1.85	2.63	0 00:05:00
25	Sub-D30	0.48	98.00	2.60	2.37	1.14	1.61	0 00:05:00
26	Sub-D31	0.50	98.00	2.60	2.37	1.19	1.68	0 00:05:00
27	Sub-D32	0.52	98.00	2.60	2.37	1.23	1.74	0 00:05:00
28	Sub-D33	0.53	98.00	2.60	2.37	1.26	1.79	0 00:05:00
29	Sub-D34	0.56	98.00	2.60	2.37	1.33	1.89	0 00:05:00
30	Sub-D35	0.34	98.00	2.60	2.37	0.81	1.14	0 00:05:00
31	Sub-D36	0.11	98.00	2.60	2.36	0.26	0.37	0 00:05:00
32	Sub-D37	0.14	98.00	2.60	2.37	0.33	0.47	0 00:05:00
33	Sub-D38	0.77	98.00	2.60	2.37	1.82	2.58	0 00:05:00
34	Sub-D39	0.52	98.00	2.60	2.37	1.23	1.74	0 00:05:00
35	Sub-D40	0.52	98.00	2.60	2.37	1.23	1.74	0 00:05:00
36	Sub-D41	0.52	98.00	2.60	2.37	1.23	1.74	0 00:05:00
37	Sub-D42	0.51	98.00	2.60	2.37	1.21	1.72	0 00:05:00
38	Sub-D43	0.43	98.00	2.60	2.37	1.02	1.44	0 00:05:00
39	Sub-D44	0.70	98.00	2.60	2.37	1.66	2.35	0 00:05:00
40	Sub-D45	0.31	98.00	2.60	2.37	0.73	1.03	0 00:05:00
41	Sub-D46	0.21	98.00	2.60	2.37	0.50	0.71	0 00:05:00
42	Sub-D47	0.19	98.00	2.60	2.37	0.45	0.65	0 00:05:00
43	Sub-D48	0.17	98.00	2.60	2.37	0.40	0.58	0 00:05:00
44	Sub-D49	0.15	98.00	2.60	2.37	0.36	0.49	0 00:05:00
45	Sub-D50	0.19	98.00	2.60	2.37	0.45	0.65	0 00:05:00
46	Sub-D51	0.22	98.00	2.60	2.37	0.52	0.73	0 00:05:00
47	Sub-D52	0.16	98.00	2.60	2.37	0.38	0.54	0 00:05:00
48	Sub-D53	0.19	98.00	2.60	2.37	0.45	0.65	0 00:05:00
49	Sub-D54	0.27	98.00	2.60	2.37	0.64	0.90	0 00:05:00
50	Sub-D55	0.24	98.00	2.60	2.37	0.57	0.82	0 00:05:00
51	Sub-D56	0.09	98.00	2.60	2.36	0.21	0.30	0 00:05:00
52	Sub-D58	0.61	98.00	2.60	2.37	1.45	2.04	0 00:05:00
53	Sub-D60	0.60	98.00	2.60	2.37	1.42	2.02	0 00:05:00
54	Sub-D61	0.12	98.00	2.60	2.37	0.28	0.41	0 00:05:00
55	Sub-POND	1.29	80.00	2.60	0.96	1.24	1.93	0 00:05:00
56	Sub-RD01	0.68	98.00	2.60	2.37	1.61	2.28	0 00:05:00
57	Sub-RD02	0.42	98.00	2.60	2.37	1.00	1.42	0 00:05:00
58	Sub-RD03	0.38	98.00	2.60	2.37	0.90	1.27	0 00:05:00
59	Sub-RD04	0.42	98.00	2.60	2.37	1.00	1.42	0 00:05:00
60	Sub-RD05	0.29	98.00	2.60	2.37	0.69	0.97	0 00:05:00
61	Sub-RD06	0.26	98.00	2.60	2.37	0.62	0.88	0 00:05:00
62	Sub-RD07	0.37	98.00	2.60	2.37	0.88	1.25	0 00:05:00
63	Sub-RD08	0.40	98.00	2.60	2.37	0.95	1.36	0 00:05:00
64	Sub-RD09	0.47	98.00	2.60	2.37	1.11	1.57	0 00:05:00
65	Sub-RD10	0.47	98.00	2.60	2.37	1.11	1.57	0 00:05:00
66	Sub-RD11	0.40	98.00	2.60	2.37	0.95	1.36	0 00:05:00
67	Sub-RD12	0.37	98.00	2.60	2.37	0.88	1.25	0 00:05:00
68	Sub-RD13	0.29	98.00	2.60	2.37	0.69	0.97	0 00:05:00
69	Sub-RD14	0.29	98.00	2.60	2.37	0.69	0.97	0 00:05:00
70	Sub-RD15	0.42	98.00	2.60	2.37	1.00	1.42	0 00:05:00
71	Sub-RD16	0.38	98.00	2.60	2.37	0.90	1.27	0 00:05:00
72	Sub-RD17	0.42	98.00	2.60	2.37	1.00	1.42	0 00:05:00
73	Sub-RD18	0.68	98.00	2.60	2.37	1.61	2.28	0 00:05:00
74	Sub-RD19	0.68	98.00	2.60	2.37	1.61	2.28	0 00:05:00
75	Sub-RD20	0.42	98.00	2.60	2.37	1.00	1.42	0 00:05:00
76	Sub-RD21	0.38	98.00	2.60	2.37	0.90	1.27	0 00:05:00
77	Sub-RD22	0.42	98.00	2.60	2.37	1.00	1.42	0 00:05:00
78	Sub-RD23	0.29	98.00	2.60	2.37	0.69	0.97	0 00:05:00
79	Sub-RD24	0.29	98.00	2.60	2.37	0.69	0.97	0 00:05:00
80	Sub-RD25	0.37	98.00	2.60	2.37	0.88	1.25	0 00:05:00
81	Sub-RD26	0.40	98.00	2.60	2.37	0.95	1.36	0 00:05:00
82	Sub-RD27	0.47	98.00	2.60	2.37	1.11	1.57	0 00:05:00

Subbasin Summary

SN	Subbasin ID	Area (ac)	Weighted Curve Number	Total Rainfall (in)	Total Runoff (in)	Total Runoff Volume (ac-in)	Peak Runoff (cfs)	Time of Concentration (days hh:mm:ss)
83	Sub-RD29	0.47	98.00	2.60	2.37	1.11	1.57	0 00:05:00
84	Sub-RD30	0.40	98.00	2.60	2.37	0.95	1.36	0 00:05:00
85	Sub-RD31	0.37	98.00	2.60	2.37	0.88	1.25	0 00:05:00
86	Sub-RD32	0.29	98.00	2.60	2.37	0.69	0.97	0 00:05:00
87	Sub-RD33	0.29	98.00	2.60	2.37	0.69	0.97	0 00:05:00
88	Sub-RD34	0.42	98.00	2.60	2.37	1.00	1.42	0 00:05:00
89	Sub-RD35	0.38	98.00	2.60	2.37	0.90	1.27	0 00:05:00
90	Sub-RD36	0.42	98.00	2.60	2.37	1.00	1.42	0 00:05:00
91	Sub-RD37	0.68	98.00	2.60	2.37	1.61	2.28	0 00:05:00

Node Summary

SN	Element ID	Element Type	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Initial Water Elevation (ft)	Surcharge Elevation (ft)	Ponded Area (ft²)	Peak Inflow (cfs)	Max HGL Elevation Attained (ft)	Max Surcharge Depth Attained (ft)	Min Freeboard Attained (ft)	Time of Peak Flooding Occurrence (days hh:mm)	Total Flooded Volume (ac-in)	Total Time Flooded (min)
1	(100)	Junction	776.42	772.06	776.42	772.06	0.00	4.90	777.68	0.00	0.24	0 00:00	0.00	0.00
2	(101)	Junction	777.17	772.54	777.17	772.54	0.00	2.66	778.13	0.00	0.29	0 00:00	0.00	0.00
3	(102)	Junction	777.94	773.05	777.94	773.05	0.00	1.26	778.62	0.00	0.32	0 00:00	0.00	0.00
4	(106)	Junction	775.82	771.46	775.82	771.46	0.00	3.29	776.80	0.00	0.52	0 00:00	0.00	0.00
5	(107)	Junction	776.57	771.94	776.57	771.94	0.00	1.91	777.35	0.00	0.47	0 00:00	0.00	0.00
6	(108)	Junction	777.34	772.44	777.34	772.44	0.00	0.96	777.92	0.00	0.42	0 00:00	0.00	0.00
7	(112)	Junction	776.20	771.84	776.20	771.84	0.00	4.10	777.33	0.00	0.37	0 00:00	0.00	0.00
8	(113)	Junction	776.95	772.32	776.95	772.32	0.00	2.89	777.97	0.00	0.23	0 00:00	0.00	0.00
9	(114)	Junction	777.72	772.82	777.72	772.82	0.00	1.56	778.50	0.00	0.22	0 00:00	0.00	0.00
10	(119)	Junction	774.40	770.04	774.40	770.04	0.00	4.90	775.66	0.00	0.24	0 00:00	0.00	0.00
11	(120)	Junction	775.15	770.52	775.15	770.52	0.00	2.66	776.11	0.00	0.29	0 00:00	0.00	0.00
12	(121)	Junction	775.92	771.03	775.92	771.03	0.00	1.26	776.60	0.00	0.32	0 00:00	0.00	0.00
13	(125)	Junction	774.41	770.05	774.41	770.05	0.00	3.29	775.39	0.00	0.52	0 00:00	0.00	0.00
14	(126)	Junction	775.16	770.53	775.16	770.53	0.00	1.91	775.94	0.00	0.47	0 00:00	0.00	0.00
15	(127)	Junction	775.93	771.04	775.93	771.04	0.00	0.96	776.51	0.00	0.42	0 00:00	0.00	0.00
16	(131)	Junction	774.44	770.08	774.44	770.08	0.00	4.10	775.57	0.00	0.37	0 00:00	0.00	0.00
17	(132)	Junction	775.19	770.56	775.19	770.56	0.00	2.89	776.21	0.00	0.23	0 00:00	0.00	0.00
18	(133)	Junction	775.96	771.07	775.96	771.07	0.00	1.56	776.74	0.00	0.22	0 00:00	0.00	0.00
19	(137)	Junction	775.70	771.35	775.70	771.35	0.00	4.90	776.95	0.00	0.25	0 00:00	0.00	0.00
20	(138)	Junction	776.45	771.82	776.45	771.82	0.00	2.66	777.41	0.00	0.29	0 00:00	0.00	0.00
21	(139)	Junction	777.22	772.33	777.22	772.33	0.00	1.26	777.90	0.00	0.32	0 00:00	0.00	0.00
22	(143)	Junction	776.16	771.80	776.16	771.80	0.00	3.29	777.14	0.00	0.52	0 00:00	0.00	0.00
23	(144)	Junction	776.90	772.28	776.90	772.28	0.00	1.91	777.68	0.00	0.48	0 00:00	0.00	0.00
24	(145)	Junction	777.68	772.78	777.68	772.78	0.00	0.96	778.26	0.00	0.42	0 00:00	0.00	0.00
25	(149)	Junction	776.63	772.28	776.63	772.28	0.00	4.11	777.76	0.00	0.37	0 00:00	0.00	0.00
26	(150)	Junction	777.38	772.75	777.38	772.75	0.00	2.89	778.40	0.00	0.23	0 00:00	0.00	0.00
27	(151)	Junction	778.15	773.26	778.15	773.26	0.00	1.56	778.93	0.00	0.22	0 00:00	0.00	0.00
28	(81)	Junction	774.27	770.95	774.27	770.95	0.00	4.72	775.50	0.00	1.27	0 00:00	0.00	0.00
29	(82)	Junction	775.04	770.41	775.04	770.41	0.00	3.46	776.17	0.00	0.12	0 00:00	0.00	0.00
30	(83)	Junction	775.79	770.90	775.79	770.90	0.00	2.05	776.71	0.00	0.08	0 00:00	0.00	0.00
31	(87)	Junction	774.77	770.41	774.77	770.41	0.00	3.23	775.73	0.00	0.54	0 00:00	0.00	0.00
32	(88)	Junction	775.51	770.89	775.51	770.89	0.00	1.84	776.27	0.00	0.50	0 00:00	0.00	0.00
33	(89)	Junction	776.29	771.39	776.29	771.39	0.00	0.88	776.79	0.00	0.50	0 00:00	0.00	0.00
34	(94)	Junction	775.25	770.90	775.25	770.90	0.00	4.11	776.38	0.00	0.37	0 00:00	0.00	0.00
35	(95)	Junction	776.00	771.37	776.00	771.37	0.00	2.89	777.02	0.00	0.23	0 00:00	0.00	0.00
36	(96)	Junction	776.77	771.88	776.77	771.88	0.00	1.56	777.55	0.00	0.22	0 00:00	0.00	0.00
37	D02	Junction	767.94	771.00	767.94	771.00	0.00	1.96	768.41	0.00	3.38	0 00:00	0.00	0.00
38	D04	Junction	768.63	774.75	768.63	774.75	0.00	32.25	771.46	0.00	5.25	0 00:00	0.00	0.00
39	D05	Junction	768.84	775.40	768.84	776.16	225.00	31.13	771.92	0.00	3.48	0 00:00	0.00	0.00
40	D06	Junction	769.06	775.67	769.06	776.16	225.00	30.58	772.37	0.00	3.30	0 00:00	0.00	0.00
41	D07	Junction	769.37	774.54	769.37	774.54	0.00	30.05	772.85	0.00	1.68	0 00:00	0.00	0.00
42	D08	Junction	769.94	771.96	769.94	772.62	1945.00	30.67	773.52	0.00	0.98	0 00:00	0.00	0.00
43	D09	Junction	770.21	772.06	770.21	772.06	0.00	25.45	773.80	0.00	1.20	0 00:00	0.00	0.00
44	D10	Junction	770.99	772.16	770.99	772.16	0.00	24.90	773.99	0.00	0.00	0 12:01	0.32	6.00
45	D11	Junction	771.26	772.26	771.26	772.82	1945.00	23.83	774.30	0.00	1.20	0 00:00	0.00	0.00
46	D12	Junction	771.54	772.36	771.54	772.36	0.00	18.84	774.50	0.00	0.04	0 00:00	0.00	0.00
47	D13	Junction	771.79	776.05	771.79	776.99	4500.00	18.24	774.87	0.00	1.18	0 00:00	0.00	0.00
48	D14	Junction	772.17	775.76	772.17	776.84	3586.00	18.45	775.31	0.00	3.33	0 00:00	0.00	0.00
49	D15	Junction	772.34	776.79	772.34	777.40	223.00	16.63	775.55	0.00	2.75	0 00:00	0.00	0.00
50	D16	Junction	772.52	777.10	772.52	777.63	205.00	15.78	775.76	0.00	1.34	0 00:00	0.00	0.00
51	D17	Junction	772.79	776.75	772.79	778.07	4335.00	16.83	776.03	0.00	0.97	0 00:00	0.00	0.00
52	D18	Junction	773.77	772.45	773.77	773.27	1575.00	13.23	776.21	0.00	0.06	0 00:00	0.00	0.00
53	D19	Junction	774.05	772.55	774.05	773.27	1575.00	9.05	776.38	0.33	0.00	0 12:01	0.15	10.00
54	D20	Junction	774.32	772.65	774.32	773.37	1575.00	9.32	776.53	0.21	0.00	0 12:03	0.10	9.00
55	D21	Junction	774.60	772.75	774.60	772.75	0.00	3.97	776.56	0.00	0.04	0 00:00	0.00	0.00
56	D22	Junction	775.71	776.22	775.71	776.22	0.00	2.36	776.60	0.00	0.61	0 00:00	0.00	0.00
57	D23	Junction	776.26	776.70	776.26	776.70	0.00	1.87	776.91	0.00	0.85	0 00:00	0.00	0.00
58	D24	Junction	777.89	776.12	777.89	776.12	0.00	1.82	778.72	0.00	0.17	0 00:00	0.00	0.00
59	D25	Junction	779.33	776.44	779.33	776.44	0.00	0.84	779.82	0.00	0.51	0 00:00	0.00	0.00
60	D27	Junction	768.65	773.41	768.65	774.80	2500.00	33.79	771.11	0.00	2.30	0 00:00	0.00	0.00
61	D28	Junction	768.72	773.41	768.72	774.80	2500.00	33.30	771.65	0.00	2.27	0 00:00	0.00	0.00
62	D29	Junction	769.20	772.38	769.20	774.80	100300.00	32.65	772.36	0.00	2.64	0 00:00	0.00	0.00
63	D30	Junction	769.47	772.62	769.47	773.17	4064.00	27.18	772.72	0.10	0.00	0 12:00	0.11	10.00
64	D31	Junction	769.75	772.72	769.75	773.27	4064.00	26.52	773.04	0.00	1.96	0 00:00	0.00	0.00
65	D32	Junction	770.02	772.82	770.02	773.37	4064.00	25.46	773.27	0.25	0.00	0 11:58	0.28	15.00
66	D33	Junction	770.30	772.92	770.30	773.47	4064.00	24.02	773.46	0.00	1.54	0 00:00	0.00	0.00
67	D34	Junction	770.57	773.02	770.57	773.02	0.00	20.48	773.57	0.00	0.00	0 12:02	0.70	11.00
68	D35	Junction	771.20	773.46	771.20	773.70	200.00	18.64	773.88	0.18	0.00	0 11:57	0.01	14.00
69	D36	Junction	771.41	776.28	771.41	776.49	212.00	18.18	774.21	0.00	2.07	0 00:00	0.00	0.00
70	D37	Junction	771.49	776.22	771.49	776.49	241.00	16.29	774.37	0.00	3.28	0 00:00	0.00	0.00
71	D38	Junction	771.85	772.65	771.85	776.47	131026.00	15.97	774.61	0.00	1.39	0 00:00	0.00	0.00
72	D39	Junction	772.14	772.79	772.14	772.79	0.00	14.68	774.64	0.00	0.00	0 12:01	1.31	14.00
73	D40	Junction	772.92	772.89	772.92	773.44	3310.00	13.20	775.23	0.00	1.27	0 00:00	0.00	0.00
74	D41	Junction	773.19	772.99	773.19	773.54	3089.00	11.50	775.51	0.32	0.00	0 12:00	0.28	14.00
75	D42	Junction	773.47	773.09	773.47	773.64	3516.00	9.85	775.71	0.00	1.29	0 00:00	0.00	0.00
76	D43	Junction	773.74	773.19	773.74	773.19	0.00	4.92	775.74	0.00	0.00	0 12:02	0.09	6.00
77	D44	Junction	773.88	773.55	773.88	773.55	0.00	3.32	775.78	0.00	0.10	0 00:00	0.00	0.00
78	D45	Junction	775.52	776.40	775.52	777.27	7643.00	1.03	776.11	0.00	0.41	0 00:00	0.00	0.00
79	D46	Junction	774.93	776.01	774.93	776.01	0.00	3.13	775.86	0.00	0.57	0 00:00	0.00	0.00
80	D47	Junction	775.70	775.90	775.70	775.90	0.00	2.33	776.44	0.00	0.76	0 00:00	0.00	0.00
81	D48	Junction	776.08	774.35	776.08	774.35	0.00	1.70	776.81	0.00	0.52	0 00:00	0.00	0.00

Node Summary

SN	Element ID	Element Type	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Initial Water Elevation (ft)	Surcharge Elevation (ft)	Ponded Area (ft²)	Peak Inflow (cfs)	Max HGL Elevation Attained (ft)	Max Surcharge Depth Attained (ft)	Min Freeboard Attained (ft)	Time of Peak Flooding Occurrence (days hh:mm)	Total Flooded Volume (ac-in)	Total Time Flooded (min)
82	D49	Junction	776.63	774.35	776.63	774.35	0.00	1.13	777.27	0.00	0.36	0 00:00	0.00	0.00
83	D50	Junction	776.82	776.38	776.82	776.38	0.00	0.65	777.29	0.00	0.53	0 00:00	0.00	0.00
84	D51	Junction	778.29	776.85	778.29	776.85	0.00	0.73	778.69	0.00	0.60	0 00:00	0.00	0.00
85	D52	Junction	778.47	776.52	778.47	776.52	0.00	0.54	778.81	0.00	0.66	0 00:00	0.00	0.00
86	D53	Junction	776.89	775.58	776.89	775.58	0.00	0.65	777.26	0.00	1.13	0 00:00	0.00	0.00
87	D54	Junction	777.35	775.40	777.35	775.40	0.00	0.90	777.88	0.00	0.47	0 00:00	0.00	0.00
88	D55	Junction	778.32	775.39	778.32	775.39	0.00	0.82	778.81	0.00	0.51	0 00:00	0.00	0.00
89	D56	Junction	775.84	775.74	775.84	775.80	1000.00	0.30	776.08	0.00	0.76	0 00:00	0.00	0.00
90	D58	Junction	770.00	767.01	770.00	767.01	0.00	2.04	770.91	0.00	0.09	0 00:00	0.00	0.00
91	D60	Junction	768.75	773.70	768.75	773.70	0.00	34.10	773.70	0.00	0.00	0 09:27	0.54	4.00
92	D61	Junction	768.90	773.70	768.90	773.72	0.00	21.74	773.72	0.02	0.00	0 05:40	0.06	0.00
93	RD01	Junction	775.84	770.95	775.84	770.95	0.00	2.28	776.84	0.00	0.00	0 12:00	0.01	4.00
94	RD02	Junction	775.34	770.45	775.34	770.45	0.00	1.42	776.23	0.00	0.11	0 00:00	0.00	0.00
95	RD03	Junction	775.82	770.93	775.82	770.93	0.00	1.27	776.50	0.00	0.32	0 00:00	0.00	0.00
96	RD04	Junction	775.32	770.42	775.32	770.42	0.00	1.42	776.06	0.00	0.26	0 00:00	0.00	0.00
97	RD05	Junction	775.82	770.92	775.82	770.92	0.00	0.97	776.40	0.00	0.42	0 00:00	0.00	0.00
98	RD06	Junction	776.34	771.44	776.34	771.44	0.00	0.88	776.89	0.00	0.45	0 00:00	0.00	0.00
99	RD07	Junction	775.80	770.91	775.80	770.91	0.00	1.25	776.48	0.00	0.32	0 00:00	0.00	0.00
100	RD08	Junction	776.30	771.41	776.30	771.41	0.00	1.36	777.09	0.00	0.21	0 00:00	0.00	0.00
101	RD09	Junction	776.82	771.93	776.82	771.93	0.00	1.57	777.65	0.00	0.17	0 00:00	0.00	0.00
102	RD10	Junction	776.01	771.12	776.01	771.12	0.00	1.57	776.84	0.00	0.17	0 00:00	0.00	0.00
103	RD11	Junction	775.49	770.60	775.49	770.60	0.00	1.36	776.28	0.00	0.21	0 00:00	0.00	0.00
104	RD12	Junction	774.99	770.10	774.99	770.10	0.00	1.25	775.67	0.00	0.32	0 00:00	0.00	0.00
105	RD13	Junction	775.98	771.09	775.98	771.09	0.00	0.97	776.58	0.00	0.40	0 00:00	0.00	0.00
106	RD14	Junction	775.46	770.56	775.46	770.56	0.00	0.97	776.04	0.00	0.42	0 00:00	0.00	0.00
107	RD15	Junction	774.96	770.07	774.96	770.07	0.00	1.42	775.70	0.00	0.26	0 00:00	0.00	0.00
108	RD16	Junction	775.97	771.08	775.97	771.08	0.00	1.27	776.69	0.00	0.28	0 00:00	0.00	0.00
109	RD17	Junction	775.45	770.55	775.45	770.55	0.00	1.42	776.21	0.00	0.24	0 00:00	0.00	0.00
110	RD18	Junction	774.95	770.06	774.95	770.06	0.00	2.28	775.94	0.00	0.01	0 00:00	0.00	0.00
111	RD19	Junction	776.97	772.08	776.97	772.08	0.00	2.28	777.96	0.00	0.01	0 00:00	0.00	0.00
112	RD20	Junction	777.47	772.57	777.47	772.57	0.00	1.42	778.23	0.00	0.24	0 00:00	0.00	0.00
113	RD21	Junction	777.99	773.10	777.99	773.10	0.00	1.27	778.71	0.00	0.28	0 00:00	0.00	0.00
114	RD22	Junction	776.37	771.47	776.37	771.47	0.00	1.42	777.11	0.00	0.26	0 00:00	0.00	0.00
115	RD23	Junction	776.87	771.97	776.87	771.97	0.00	0.97	777.45	0.00	0.42	0 00:00	0.00	0.00
116	RD24	Junction	777.39	772.49	777.39	772.49	0.00	0.97	777.99	0.00	0.40	0 00:00	0.00	0.00
117	RD25	Junction	776.75	771.85	776.75	771.85	0.00	1.25	777.43	0.00	0.32	0 00:00	0.00	0.00
118	RD26	Junction	777.25	772.35	777.25	772.35	0.00	1.36	778.04	0.00	0.21	0 00:00	0.00	0.00
119	RD27	Junction	777.77	772.87	777.77	772.87	0.00	1.57	778.60	0.00	0.17	0 00:00	0.00	0.00
120	RD29	Junction	778.20	773.31	778.20	773.31	0.00	1.57	779.03	0.00	0.17	0 00:00	0.00	0.00
121	RD30	Junction	777.68	772.79	777.68	772.79	0.00	1.36	778.47	0.00	0.21	0 00:00	0.00	0.00
122	RD31	Junction	777.18	772.29	777.18	772.29	0.00	1.25	777.86	0.00	0.32	0 00:00	0.00	0.00
123	RD32	Junction	777.73	772.83	777.73	772.83	0.00	0.97	778.33	0.00	0.40	0 00:00	0.00	0.00
124	RD33	Junction	777.21	772.31	777.21	772.31	0.00	0.97	777.79	0.00	0.42	0 00:00	0.00	0.00
125	RD34	Junction	776.71	771.81	776.71	771.81	0.00	1.42	777.45	0.00	0.26	0 00:00	0.00	0.00
126	RD35	Junction	777.27	772.38	777.27	772.38	0.00	1.27	777.99	0.00	0.28	0 00:00	0.00	0.00
127	RD36	Junction	776.75	771.86	776.75	771.86	0.00	1.42	777.51	0.00	0.24	0 00:00	0.00	0.00
128	RD37	Junction	773.25	771.36	773.25	771.36	0.00	2.28	777.24	0.00	0.01	0 00:00	0.00	0.00
129	D01	Outfall	764.40					1.96	764.40					
130	POND	Storage Node	768.00	772.00	768.00		100290.00	71.96	770.57				0.00	0.00

Link Summary

SN	Element ID	Element Type	From (Inlet) Node	To (Outlet) Node	Length (ft)	Inlet Invert Elevation (ft)	Outlet Invert Elevation (ft)	Average Slope (%)	Diameter or Height (in)	Manning's Roughness	Peak Flow (cfs)	Peak Flow Velocity (ft/sec)	Peak Flow Depth (ft)	Total Time Surcharged (min)
1	Link-01	Pipe	D60	POND	49.90	771.00	767.00	8.0200	12.000	0.0150	33.91	50.00	0.69	0.00
2	Link-02	Pipe	D61	D60	30.20	768.90	768.75	0.5000	12.000	0.0150	34.06	50.00	1.00	843.00
3	Link-03	Pipe	D02	D01	54.17	767.94	767.40	1.0000	24.000	0.0150	1.96	3.70	0.45	0.00
4	P(100)	Pipe	(113)	(112)	49.86	776.95	776.45	1.0000	15.000	0.0120	2.88	3.28	0.93	0.00
5	P(101)	Pipe	(114)	(113)	52.12	777.72	777.20	1.0000	12.000	0.0120	1.55	2.86	0.77	0.00
6	P(102)	Pipe	RD27	(114)	5.00	777.77	777.72	1.0000	12.000	0.0120	1.56	2.31	0.80	0.00
7	P(103)	Pipe	RD26	(113)	5.00	777.25	777.20	1.0000	12.000	0.0120	1.35	2.75	0.77	0.00
8	P(104)	Pipe	RD25	(112)	5.00	776.75	776.70	1.0000	12.000	0.0120	1.24	2.94	0.64	0.00
9	P(105)	Pipe	(119)	D29	90.03	774.40	773.50	1.0000	18.000	0.0120	4.85	4.01	0.96	0.00
10	P(106)	Pipe	(120)	(119)	49.86	775.15	774.65	1.0000	15.000	0.0120	2.64	3.05	0.97	0.00
11	P(107)	Pipe	(121)	(120)	52.12	775.92	775.40	1.0000	12.000	0.0120	1.25	2.74	0.69	0.00
12	P(108)	Pipe	RD16	(121)	5.00	775.97	775.92	1.0000	12.000	0.0120	1.26	2.27	0.70	0.00
13	P(109)	Pipe	RD17	(120)	5.00	775.45	775.40	1.0000	12.000	0.0120	1.41	2.86	0.73	0.00
14	P(110)	Pipe	RD18	(119)	5.00	774.95	774.90	1.0000	12.000	0.0120	2.27	3.14	0.87	0.00
15	P(111)	Pipe	(125)	D31	91.03	774.41	773.50	1.0000	18.000	0.0120	3.25	3.62	0.75	0.00
16	P(112)	Pipe	(126)	(125)	49.86	775.16	774.66	1.0000	15.000	0.0120	1.90	3.11	0.74	0.00
17	P(113)	Pipe	(127)	(126)	52.12	775.93	775.41	1.0000	12.000	0.0120	0.95	2.79	0.54	0.00
18	P(114)	Pipe	RD13	(127)	5.00	775.98	775.93	1.0000	12.000	0.0120	0.96	2.28	0.58	0.00
19	P(115)	Pipe	RD14	(126)	5.00	775.46	775.41	1.0000	12.000	0.0120	0.96	2.81	0.55	0.00
20	P(116)	Pipe	RD15	(125)	5.00	774.96	774.91	1.0000	12.000	0.0120	1.41	2.94	0.60	0.00
21	P(117)	Pipe	(131)	D33	94.06	774.44	773.50	1.0000	18.000	0.0120	4.05	3.78	0.85	0.00
22	P(118)	Pipe	(132)	(131)	49.86	775.19	774.69	1.0000	15.000	0.0120	2.88	3.28	0.93	0.00
23	P(119)	Pipe	(133)	(132)	52.12	775.96	775.44	1.0000	12.000	0.0120	1.55	2.86	0.77	0.00
24	P(120)	Pipe	RD10	(133)	5.00	776.01	775.96	1.0000	12.000	0.0120	1.56	2.31	0.80	0.00
25	P(121)	Pipe	RD11	(132)	5.00	775.49	775.44	1.0000	12.000	0.0120	1.35	2.75	0.77	0.00
26	P(122)	Pipe	RD12	(131)	5.00	774.99	774.94	1.0000	12.000	0.0120	1.24	2.94	0.64	0.00
27	P(123)	Pipe	(137)	D38	120.37	775.70	774.50	1.0000	18.000	0.0120	4.84	4.01	0.95	0.00
28	P(124)	Pipe	(138)	(137)	49.86	776.45	775.95	1.0000	15.000	0.0120	2.64	3.06	0.97	0.00
29	P(125)	Pipe	(139)	(138)	52.12	777.22	776.70	1.0000	12.000	0.0120	1.25	2.74	0.69	0.00
30	P(126)	Pipe	RD35	(139)	5.00	777.27	777.22	1.0000	12.000	0.0120	1.26	2.27	0.70	0.00
31	P(127)	Pipe	RD36	(138)	5.00	776.75	776.70	1.0000	12.000	0.0120	1.41	2.86	0.73	0.00
32	P(128)	Pipe	RD37	(137)	5.00	776.25	776.20	1.0000	12.000	0.0120	2.27	3.15	0.86	0.00
33	P(129)	Pipe	(143)	D40	115.56	776.16	775.00	1.0000	18.000	0.0120	3.23	3.63	0.74	0.00
34	P(130)	Pipe	(144)	(143)	49.86	776.90	776.41	0.9800	15.000	0.0120	1.90	3.11	0.73	0.00
35	P(131)	Pipe	(145)	(144)	52.12	777.68	777.16	1.0000	12.000	0.0120	0.95	2.80	0.54	0.00
36	P(132)	Pipe	RD32	(145)	5.00	777.73	777.68	1.0000	12.000	0.0120	0.96	2.28	0.58	0.00
37	P(133)	Pipe	RD33	(144)	5.03	777.21	777.16	0.9900	12.000	0.0120	0.96	2.81	0.54	0.00
38	P(134)	Pipe	RD34	(143)	5.00	776.71	776.66	1.0000	12.000	0.0120	1.41	2.95	0.59	0.00
39	P(135)	Pipe	(149)	D42	113.42	776.63	775.50	1.0000	18.000	0.0120	4.04	3.78	0.85	0.00
40	P(136)	Pipe	(150)	(149)	49.86	777.38	776.88	1.0000	15.000	0.0120	2.88	3.28	0.93	0.00
41	P(137)	Pipe	(151)	(150)	52.12	778.15	777.63	1.0000	12.000	0.0120	1.55	2.86	0.77	0.00
42	P(138)	Pipe	RD29	(151)	5.00	778.20	778.15	1.0000	12.000	0.0120	1.56	2.31	0.80	0.00
43	P(139)	Pipe	RD30	(150)	5.00	777.68	777.63	1.0000	12.000	0.0120	1.35	2.75	0.77	0.00
44	P(140)	Pipe	RD31	(149)	5.00	777.18	777.13	1.0000	12.000	0.0120	1.24	2.94	0.64	0.00
45	P(15)	Pipe	D58	POND	58.56	770.00	768.50	2.5600	12.000	0.0120	2.03	2.74	0.90	0.00
46	P(16)	Pipe	D07	D06	123.16	769.37	769.06	0.2500	36.000	0.0120	30.04	4.25	3.00	10.00
47	P(16) (1)	Pipe	D08	D07	226.84	769.94	769.37	0.2500	36.000	0.0120	30.05	4.25	3.00	11.00
48	P(17)	Pipe	D09	D08	110.00	770.21	769.94	0.2500	36.000	0.0120	25.40	3.59	3.00	11.00
49	P(18)	Pipe	D10	D09	110.00	770.99	770.21	0.7100	36.000	0.0120	22.55	3.44	3.00	6.00
50	P(19)	Pipe	D11	D10	110.00	771.26	770.99	0.2500	36.000	0.0120	23.87	3.70	3.00	4.00
51	P(20)	Pipe	D12	D11	110.00	771.54	771.26	0.2500	36.000	0.0120	18.88	3.22	2.95	0.00
52	P(23)	Pipe	D18	D17	192.59	773.77	773.29	0.2500	30.000	0.0120	12.93	3.74	2.47	0.00
53	P(24)	Pipe	D19	D18	110.00	774.05	773.77	0.2500	24.000	0.0120	10.52	3.36	2.00	10.00
54	P(25)	Pipe	D20	D19	110.00	774.32	774.05	0.2500	24.000	0.0120	8.01	2.76	2.00	9.00
55	P(26)	Pipe	D21	D20	110.00	774.60	774.32	0.2500	24.000	0.0120	4.34	1.65	1.97	0.00
56	P(27)	Pipe	D22	D21	121.80	775.71	775.10	0.5000	18.000	0.0120	2.27	2.89	1.16	0.00
57	P(28)	Pipe	D23	D22	110.16	776.26	775.71	0.5000	18.000	0.0120	1.89	2.46	0.76	0.00
58	P(29)	Pipe	D24	D23	113.60	777.89	776.76	0.9900	12.000	0.0120	1.69	3.15	0.62	0.00
59	P(30)	Pipe	D25	D24	144.00	779.33	777.89	1.0000	12.000	0.0120	0.88	1.65	0.65	0.00
60	P(31)	Pipe	D27	POND	58.17	768.65	768.50	0.2600	48.000	0.0120	33.78	5.07	2.09	0.00
61	P(32)	Pipe	D28	D27	30.00	768.72	768.65	0.2300	36.000	0.0120	33.27	4.97	2.69	0.00
62	P(33)	Pipe	D29	D28	191.79	769.20	768.72	0.2500	36.000	0.0120	32.65	4.63	2.96	0.00
63	P(34)	Pipe	D30	D29	110.00	769.47	769.20	0.2500	36.000	0.0120	28.02	3.96	3.00	12.00
64	P(35)	Pipe	D31	D30	110.00	769.75	769.47	0.2500	36.000	0.0120	26.64	3.79	3.00	14.00
65	P(36)	Pipe	D32	D31	110.00	770.02	769.75	0.2500	36.000	0.0120	25.19	3.56	3.00	15.00
66	P(37)	Pipe	D33	D32	110.00	770.30	770.02	0.2500	36.000	0.0120	23.98	3.39	3.00	14.00
67	P(38)	Pipe	D34	D33	110.00	770.57	770.30	0.2500	36.000	0.0120	19.19	2.85	3.00	11.00
68	P(39)	Pipe	D35	D34	50.09	771.20	771.07	0.2600	30.000	0.0120	18.64	4.02	2.50	11.00
69	P(39) (1)	Pipe	D36	D35	84.79	771.41	771.20	0.2500	30.000	0.0120	17.52	3.58	2.50	14.00
70	P(40)	Pipe	D37	D36	30.63	771.49	771.41	0.2600	30.000	0.0120	15.78	3.21	2.50	15.00
71	P(41)	Pipe	D38	D37	145.53	771.85	771.49	0.2500	30.000	0.0120	15.40	3.14	2.50	15.00
72	P(42)	Pipe	D39	D38	115.67	772.14	771.85	0.2500	30.000	0.0120	11.63	2.41	2.50	14.00
73	P(43)	Pipe	D40	D39	110.00	772.92	772.64	0.2500	24.000	0.0120	13.21	4.20	2.00	14.00
74	P(44)	Pipe	D41	D40	110.00	773.19	772.92	0.2500	24.000	0.0120	9.46	3.01	2.00	14.00
75	P(45)	Pipe	D42	D41	110.00	773.47	773.19	0.2500	24.000	0.0120	9.78	3.11	2.00	11.00
76	P(46)	Pipe	D43	D42	110.00	773.74	773.47	0.2500	24.000	0.0120	4.22	1.81	2.00	6.00
77	P(47)	Pipe	D44	D43	55.00	773.88	773.74	0.2500	24.000	0.0120	3.51	1.58	1.94	0.00
78	P(48)	Pipe	D45	D44	255.74	775.52	774.88	0.2500	12.000	0.0120	1.00	2.32	0.73	0.00
79	P(49)	Pipe	D13	D12	100.80	771.79	771.54	0.2500	30.000	0.0120	18.22	3.71	2.50	9.00
80	P(50)	Pipe	D14	D13	152.05	772.17	771.79	0.2500	30.000	0.0120	17.74	3.62	2.50	10.00
81	P(51)	Pipe	D53	D14	108.00	776.89	775.81	1.0000	18.000	0.0120	0.77	2.80	0.30	0.00

Link Summary

SN	Element ID	Element Type	From (Inlet) Node	To (Outlet) Node	Length	Inlet Invert Elevation	Outlet Invert Elevation	Average Slope	Diameter or Height	Manning's Roughness	Peak Flow	Peak Flow Velocity	Peak Flow Depth	Total Time Surcharged
					(ft)	(ft)	(ft)	(%)	(in)		(cfs)	(ft/sec)	(ft)	(min)
82	P(53)	Pipe	D16	D15	70.60	772.52	772.34	0.2500	30.000	0.0120	15.71	3.20	2.50	11.00
83	P(54)	Pipe	D52	D15	117.00	778.47	777.30	1.0000	12.000	0.0120	0.52	2.68	0.29	0.00
84	P(55)	Pipe	D51	D37	163.40	778.29	776.65	1.0000	12.000	0.0120	0.70	2.91	0.34	0.00
85	P(56)	Pipe	D46	D36	161.45	774.93	773.31	1.0000	18.000	0.0120	2.97	3.50	0.90	0.00
86	P(57)	Pipe	D47	D46	76.76	775.70	774.93	1.0000	18.000	0.0120	2.43	2.49	0.82	0.00
87	P(58)	Pipe	D48	D47	13.14	776.08	775.95	0.9900	15.000	0.0120	1.70	3.27	0.61	0.00
88	P(59)	Pipe	D49	D48	29.92	776.63	776.33	1.0000	12.000	0.0120	1.13	2.94	0.55	0.00
89	P(60)	Pipe	D50	D49	13.28	776.82	776.63	1.4300	12.000	0.0120	0.64	1.66	0.55	0.00
90	P(61)	Pipe	D04	POND	52.97	768.63	768.50	0.2500	36.000	0.0120	32.26	5.47	2.32	0.00
91	P(62)	Pipe	D05	D04	82.14	768.83	768.63	0.2400	36.000	0.0120	31.08	4.44	2.91	0.00
92	P(63)	Pipe	D06	D05	90.00	769.05	768.83	0.2400	36.000	0.0120	30.57	4.32	3.00	6.00
93	P(64)	Pipe	D17	D16	108.60	772.79	772.52	0.2500	30.000	0.0120	15.59	3.18	2.50	12.00
94	P(65)	Pipe	D55	D14	67.82	778.32	777.64	1.0000	12.000	0.0120	0.86	2.94	0.39	0.00
95	P(66)	Pipe	D54	D04	82.14	777.35	775.71	2.0000	12.000	0.0120	0.90	3.26	0.38	0.00
96	P(67)	Pipe	D56	D28	46.08	773.84	772.92	2.0000	12.000	0.0120	0.30	3.04	0.18	0.00
97	P(68)	Pipe	D15	D14	69.52	772.34	772.17	0.2400	30.000	0.0120	16.12	3.29	2.50	10.00
98	P(69)	Pipe	(81)	D08	127.13	774.27	773.00	1.0000	18.000	0.0120	4.69	3.97	0.94	0.00
99	P(70)	Pipe	(82)	(81)	52.12	775.04	774.52	1.0000	15.000	0.0120	3.45	3.28	1.05	0.00
100	P(71)	Pipe	(83)	(82)	49.86	775.79	775.29	1.0000	12.000	0.0120	2.04	2.94	0.90	0.00
101	P(72)	Pipe	RD01	(83)	5.00	775.84	775.79	1.0000	12.000	0.0120	2.05	2.65	0.96	0.00
102	P(73)	Pipe	RD02	(82)	5.00	775.34	775.29	1.0000	12.000	0.0120	1.42	2.63	0.89	0.00
103	P(74)	Pipe	RD03	(81)	5.00	775.82	775.77	1.0000	12.000	0.0120	1.26	2.94	0.54	0.00
104	P(75)	Pipe	(87)	D09	126.56	774.77	773.50	1.0000	18.000	0.0120	3.15	3.63	0.73	0.00
105	P(76)	Pipe	(88)	(87)	49.86	775.51	775.02	0.9800	15.000	0.0120	1.82	3.09	0.72	0.00
106	P(77)	Pipe	(89)	(88)	52.12	776.29	775.77	1.0000	12.000	0.0120	0.88	2.77	0.49	0.00
107	P(78)	Pipe	RD06	(89)	5.00	776.34	776.29	1.0000	12.000	0.0120	0.88	2.28	0.52	0.00
108	P(79)	Pipe	RD05	(88)	5.00	775.82	775.77	1.0000	12.000	0.0120	0.96	2.86	0.54	0.00
109	P(80)	Pipe	RD04	(87)	5.00	775.32	775.27	1.0000	12.000	0.0120	1.41	2.98	0.58	0.00
110	P(81)	Pipe	(94)	D11	125.15	775.25	774.00	1.0000	18.000	0.0120	4.03	3.78	0.85	0.00
111	P(82)	Pipe	(95)	(94)	49.86	776.00	775.50	1.0000	15.000	0.0120	2.88	3.28	0.93	0.00
112	P(83)	Pipe	(96)	(95)	52.12	776.77	776.25	1.0000	12.000	0.0120	1.55	2.86	0.77	0.00
113	P(84)	Pipe	RD09	(96)	5.00	776.82	776.77	1.0000	12.000	0.0120	1.56	2.31	0.80	0.00
114	P(85)	Pipe	RD08	(95)	5.00	776.30	776.25	1.0000	12.000	0.0120	1.35	2.75	0.77	0.00
115	P(86)	Pipe	RD07	(94)	5.00	775.80	775.75	1.0000	12.000	0.0120	1.24	2.94	0.64	0.00
116	P(87)	Pipe	(100)	D17	92.04	776.42	775.50	1.0000	18.000	0.0120	4.85	4.01	0.96	0.00
117	P(88)	Pipe	(101)	(100)	49.86	777.17	776.67	1.0000	15.000	0.0120	2.64	3.05	0.97	0.00
118	P(89)	Pipe	(102)	(101)	52.12	777.94	777.42	1.0000	12.000	0.0120	1.25	2.74	0.69	0.00
119	P(90)	Pipe	RD21	(102)	5.00	777.99	777.94	1.0000	12.000	0.0120	1.26	2.27	0.70	0.00
120	P(91)	Pipe	RD20	(101)	5.00	777.47	777.42	1.0000	12.000	0.0120	1.41	2.86	0.73	0.00
121	P(92)	Pipe	RD19	(100)	5.00	776.97	776.92	1.0000	12.000	0.0120	2.27	3.14	0.87	0.00
122	P(93)	Pipe	(106)	D18	154.50	775.82	774.27	1.0000	18.000	0.0120	3.26	3.05	1.19	0.00
123	P(94)	Pipe	(107)	(106)	49.86	776.57	776.07	1.0000	15.000	0.0120	1.90	3.11	0.74	0.00
124	P(95)	Pipe	(108)	(107)	52.12	777.34	776.82	1.0000	12.000	0.0120	0.95	2.79	0.54	0.00
125	P(96)	Pipe	RD24	(108)	5.00	777.39	777.34	1.0000	12.000	0.0120	0.96	2.28	0.58	0.00
126	P(97)	Pipe	RD23	(107)	5.00	776.87	776.82	1.0000	12.000	0.0120	0.96	2.81	0.55	0.00
127	P(98)	Pipe	RD22	(106)	5.00	776.37	776.32	1.0000	12.000	0.0120	1.41	2.94	0.60	0.00
128	P(99)	Pipe	(112)	D20	137.40	776.20	774.82	1.0000	18.000	0.0120	4.07	3.46	1.25	0.00
129	Orifice-WQv	Orifice	POND	D02		768.00	767.94		6.100		1.47			
130	Weir-RIM	Weir	POND	D02		768.00	767.94				0.49			
131	Weir-Spillway	Weir	POND	D02		768.00	767.94				0.00			

Junction Input

SN	Element ID	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Surcharge Elevation (ft)	Surcharge Depth (ft)	Ponded Area (ft²)	Minimum Pipe Cover (in)
1	(100)	776.42	772.06	-4.36	772.06	0.00	0.00	0.00
2	(101)	777.17	772.54	-4.63	772.54	0.00	0.00	0.00
3	(102)	777.94	773.05	-4.89	773.05	0.00	0.00	0.00
4	(106)	775.82	771.46	-4.36	771.46	0.00	0.00	0.00
5	(107)	776.57	771.94	-4.63	771.94	0.00	0.00	0.00
6	(108)	777.34	772.44	-4.90	772.44	0.00	0.00	0.00
7	(112)	776.20	771.84	-4.36	771.84	0.00	0.00	0.00
8	(113)	776.95	772.32	-4.63	772.32	0.00	0.00	0.00
9	(114)	777.72	772.82	-4.90	772.82	0.00	0.00	0.00
10	(119)	774.40	770.04	-4.36	770.04	0.00	0.00	0.00
11	(120)	775.15	770.52	-4.63	770.52	0.00	0.00	0.00
12	(121)	775.92	771.03	-4.89	771.03	0.00	0.00	0.00
13	(125)	774.41	770.05	-4.36	770.05	0.00	0.00	0.00
14	(126)	775.16	770.53	-4.63	770.53	0.00	0.00	0.00
15	(127)	775.93	771.04	-4.89	771.04	0.00	0.00	0.00
16	(131)	774.44	770.08	-4.36	770.08	0.00	0.00	0.00
17	(132)	775.19	770.56	-4.63	770.56	0.00	0.00	0.00
18	(133)	775.96	771.07	-4.89	771.07	0.00	0.00	0.00
19	(137)	775.70	771.35	-4.35	771.35	0.00	0.00	0.00
20	(138)	776.45	771.82	-4.63	771.82	0.00	0.00	0.00
21	(139)	777.22	772.33	-4.89	772.33	0.00	0.00	0.00
22	(143)	776.16	771.80	-4.36	771.80	0.00	0.00	0.00
23	(144)	776.90	772.28	-4.62	772.28	0.00	0.00	0.00
24	(145)	777.68	772.78	-4.90	772.78	0.00	0.00	0.00
25	(149)	776.63	772.28	-4.35	772.28	0.00	0.00	0.00
26	(150)	777.38	772.75	-4.63	772.75	0.00	0.00	0.00
27	(151)	778.15	773.26	-4.89	773.26	0.00	0.00	0.00
28	(81)	774.27	770.95	-3.32	770.95	0.00	0.00	0.00
29	(82)	775.04	770.41	-4.63	770.41	0.00	0.00	0.00
30	(83)	775.79	770.90	-4.89	770.90	0.00	0.00	0.00
31	(87)	774.77	770.41	-4.36	770.41	0.00	0.00	0.00
32	(88)	775.51	770.89	-4.62	770.89	0.00	0.00	0.00
33	(89)	776.29	771.39	-4.90	771.39	0.00	0.00	0.00
34	(94)	775.25	770.90	-4.35	770.90	0.00	0.00	0.00
35	(95)	776.00	771.37	-4.63	771.37	0.00	0.00	0.00
36	(96)	776.77	771.88	-4.89	771.88	0.00	0.00	0.00
37	D02	767.94	771.00	3.06	771.00	0.00	0.00	0.00
38	D04	768.63	774.75	6.12	774.75	0.00	0.00	0.00
39	D05	768.84	775.40	6.56	776.16	0.76	225.00	42.89
40	D06	769.06	775.67	6.61	776.16	0.49	225.00	43.37
41	D07	769.37	774.54	5.17	774.54	0.00	0.00	26.01
42	D08	769.94	771.96	2.02	772.62	0.66	1945.00	0.00
43	D09	770.21	772.06	1.85	772.06	0.00	0.00	0.00
44	D10	770.99	772.16	1.17	772.16	0.00	0.00	0.00
45	D11	771.26	772.26	1.00	772.82	0.56	1945.00	0.00
46	D12	771.54	772.36	0.82	772.36	0.00	0.00	0.00
47	D13	771.79	776.05	4.26	776.99	0.95	4500.00	21.06
48	D14	772.17	775.76	3.59	776.84	1.08	3586.00	0.00
49	D15	772.34	776.79	4.45	777.40	0.61	223.00	0.00
50	D16	772.52	777.10	4.58	777.63	0.53	205.00	25.01
51	D17	772.79	776.75	3.96	778.07	1.32	4335.00	0.00
52	D18	773.77	772.45	-1.32	773.27	0.82	1575.00	0.00
53	D19	774.05	772.55	-1.50	773.27	0.72	1575.00	0.00
54	D20	774.32	772.65	-1.67	773.37	0.72	1575.00	0.00
55	D21	774.60	772.75	-1.85	772.75	0.00	0.00	0.00
56	D22	775.71	776.22	0.51	776.22	0.00	0.00	0.00
57	D23	776.26	776.70	0.44	776.70	0.00	0.00	0.00
58	D24	777.89	776.12	-1.77	776.12	0.00	0.00	0.00
59	D25	779.33	776.44	-2.89	776.44	0.00	0.00	0.00
60	D27	768.65	773.41	4.76	774.80	1.39	2500.00	9.12
61	D28	768.72	773.41	4.69	774.80	1.39	2500.00	0.00
62	D29	769.20	772.38	3.18	774.80	2.42	100300.00	0.00
63	D30	769.47	772.62	3.15	773.17	0.55	4064.00	1.76
64	D31	769.75	772.72	2.97	773.27	0.55	4064.00	0.00
65	D32	770.02	772.82	2.80	773.37	0.55	4064.00	0.00
66	D33	770.30	772.92	2.62	773.47	0.55	4064.00	0.00
67	D34	770.57	773.02	2.45	773.02	0.00	0.00	0.00
68	D35	771.20	773.46	2.26	773.70	0.24	200.00	0.00
69	D36	771.41	776.28	4.87	776.49	0.21	212.00	17.64
70	D37	771.49	776.22	4.73	776.49	0.27	241.00	0.00
71	D38	771.85	772.65	0.80	776.47	3.82	131026.00	0.00
72	D39	772.14	772.79	0.65	772.79	0.00	0.00	0.00
73	D40	772.92	772.89	-0.03	773.44	0.55	3310.00	0.00
74	D41	773.19	772.99	-0.20	773.54	0.55	3089.00	0.00
75	D42	773.47	773.09	-0.38	773.64	0.55	3516.00	0.00
76	D43	773.74	773.19	-0.55	773.19	0.00	0.00	0.00
77	D44	773.88	773.55	-0.33	773.55	0.00	0.00	0.00
78	D45	775.52	776.40	0.88	777.27	0.87	7643.00	0.00
79	D46	774.93	776.01	1.08	776.01	0.00	0.00	0.00
80	D47	775.70	775.90	0.20	775.90	0.00	0.00	0.00
81	D48	776.08	774.35	-1.73	774.35	0.00	0.00	0.00
82	D49	776.63	774.35	-2.28	774.35	0.00	0.00	0.00

Junction Input

SN	Element ID	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Surcharge Elevation (ft)	Surcharge Depth (ft)	Ponded Area (ft²)	Minimum Pipe Cover (in)
83	D50	776.82	776.38	-0.44	776.38	0.00	0.00	0.00
84	D51	778.29	776.85	-1.44	776.85	0.00	0.00	0.00
85	D52	778.47	776.52	-1.96	776.52	0.00	0.00	0.00
86	D53	776.89	775.58	-1.31	775.58	0.00	0.00	0.00
87	D54	777.35	775.40	-1.95	775.40	0.00	0.00	0.00
88	D55	778.32	775.39	-2.93	775.39	0.00	0.00	0.00
89	D56	775.84	775.74	-0.10	775.80	0.06	1000.00	10.76
90	D58	770.00	767.01	-2.99	767.01	0.00	0.00	0.00
91	D60	768.75	773.70	4.95	773.70	0.00	0.00	20.40
92	D61	768.90	773.70	4.80	773.72	0.02	0.00	45.60
93	RD01	775.84	770.95	-4.89	770.95	0.00	0.00	0.00
94	RD02	775.34	770.45	-4.89	770.45	0.00	0.00	0.00
95	RD03	775.82	770.93	-4.89	770.93	0.00	0.00	0.00
96	RD04	775.32	770.42	-4.90	770.42	0.00	0.00	0.00
97	RD05	775.82	770.92	-4.90	770.92	0.00	0.00	0.00
98	RD06	776.34	771.44	-4.90	771.44	0.00	0.00	0.00
99	RD07	775.80	770.91	-4.89	770.91	0.00	0.00	0.00
100	RD08	776.30	771.41	-4.89	771.41	0.00	0.00	0.00
101	RD09	776.82	771.93	-4.89	771.93	0.00	0.00	0.00
102	RD10	776.01	771.12	-4.89	771.12	0.00	0.00	0.00
103	RD11	775.49	770.60	-4.90	770.60	0.00	0.00	0.00
104	RD12	774.99	770.10	-4.89	770.10	0.00	0.00	0.00
105	RD13	775.98	771.09	-4.90	771.09	0.00	0.00	0.00
106	RD14	775.46	770.56	-4.90	770.56	0.00	0.00	0.00
107	RD15	774.96	770.07	-4.90	770.07	0.00	0.00	0.00
108	RD16	775.97	771.08	-4.90	771.08	0.00	0.00	0.00
109	RD17	775.45	770.55	-4.90	770.55	0.00	0.00	0.00
110	RD18	774.95	770.06	-4.90	770.06	0.00	0.00	0.00
111	RD19	776.97	772.08	-4.90	772.08	0.00	0.00	0.00
112	RD20	777.47	772.57	-4.90	772.57	0.00	0.00	0.00
113	RD21	777.99	773.10	-4.90	773.10	0.00	0.00	0.00
114	RD22	776.37	771.47	-4.90	771.47	0.00	0.00	0.00
115	RD23	776.87	771.97	-4.90	771.97	0.00	0.00	0.00
116	RD24	777.39	772.49	-4.90	772.49	0.00	0.00	0.00
117	RD25	776.75	771.85	-4.90	771.85	0.00	0.00	0.00
118	RD26	777.25	772.35	-4.90	772.35	0.00	0.00	0.00
119	RD27	777.77	772.87	-4.90	772.87	0.00	0.00	0.00
120	RD29	778.20	773.31	-4.89	773.31	0.00	0.00	0.00
121	RD30	777.68	772.79	-4.89	772.79	0.00	0.00	0.00
122	RD31	777.18	772.29	-4.89	772.29	0.00	0.00	0.00
123	RD32	777.73	772.83	-4.90	772.83	0.00	0.00	0.00
124	RD33	777.21	772.31	-4.90	772.31	0.00	0.00	0.00
125	RD34	776.71	771.81	-4.90	771.81	0.00	0.00	0.00
126	RD35	777.27	772.38	-4.89	772.38	0.00	0.00	0.00
127	RD36	776.75	771.86	-4.89	771.86	0.00	0.00	0.00
128	RD37	773.25	771.36	-1.89	771.36	0.00	0.00	0.00

Junction Results

SN	Element ID	Peak Inflow (cfs)	Peak Lateral Inflow (cfs)	Max HGL Elevation Attained (ft)	Max HGL Depth Attained (ft)	Max Surcharge Depth Attained (ft)	Min Freeboard Attained (ft)	Average HGL Elevation Attained (ft)	Average HGL Depth Attained (ft)	Time of Max HGL Occurrence (days hh:mm)	Time of Peak Flooding Occurrence (days hh:mm)	Total Flooded Volume (ac-in)	Total Time Flooded (min)
1	(100)	4.90	0.00	777.68	1.26	0.00	0.24	776.77	0.35	0 12:00	0 00:00	0.00	0.00
2	(101)	2.66	0.00	778.13	0.96	0.00	0.29	777.44	0.27	0 12:00	0 00:00	0.00	0.00
3	(102)	1.26	0.00	778.62	0.68	0.00	0.32	778.13	0.19	0 12:00	0 00:00	0.00	0.00
4	(106)	3.29	0.00	776.80	0.98	0.00	0.52	776.10	0.28	0 12:00	0 00:00	0.00	0.00
5	(107)	1.91	0.00	777.35	0.78	0.00	0.47	776.79	0.22	0 12:00	0 00:00	0.00	0.00
6	(108)	0.96	0.00	777.92	0.58	0.00	0.42	777.50	0.16	0 12:00	0 00:00	0.00	0.00
7	(112)	4.10	0.00	777.33	1.13	0.00	0.37	776.52	0.32	0 12:00	0 00:00	0.00	0.00
8	(113)	2.89	0.00	777.97	1.02	0.00	0.23	777.23	0.28	0 12:00	0 00:00	0.00	0.00
9	(114)	1.56	0.00	778.50	0.78	0.00	0.22	777.93	0.21	0 12:00	0 00:00	0.00	0.00
10	(119)	4.90	0.00	775.66	1.26	0.00	0.24	774.75	0.35	0 12:00	0 00:00	0.00	0.00
11	(120)	2.66	0.00	776.11	0.96	0.00	0.29	775.42	0.27	0 12:00	0 00:00	0.00	0.00
12	(121)	1.26	0.00	776.60	0.68	0.00	0.32	776.11	0.19	0 12:00	0 00:00	0.00	0.00
13	(125)	3.29	0.00	775.39	0.98	0.00	0.52	774.69	0.28	0 12:00	0 00:00	0.00	0.00
14	(126)	1.91	0.00	775.94	0.78	0.00	0.47	775.38	0.22	0 12:00	0 00:00	0.00	0.00
15	(127)	0.96	0.00	776.51	0.58	0.00	0.42	776.09	0.16	0 12:00	0 00:00	0.00	0.00
16	(131)	4.10	0.00	775.57	1.13	0.00	0.37	774.76	0.32	0 12:00	0 00:00	0.00	0.00
17	(132)	2.89	0.00	776.21	1.02	0.00	0.23	775.47	0.28	0 12:00	0 00:00	0.00	0.00
18	(133)	1.56	0.00	776.74	0.78	0.00	0.22	776.17	0.21	0 12:00	0 00:00	0.00	0.00
19	(137)	4.90	0.00	776.95	1.25	0.00	0.25	776.05	0.35	0 12:00	0 00:00	0.00	0.00
20	(138)	2.66	0.00	777.41	0.96	0.00	0.29	776.72	0.27	0 12:00	0 00:00	0.00	0.00
21	(139)	1.26	0.00	777.90	0.68	0.00	0.32	777.41	0.19	0 12:00	0 00:00	0.00	0.00
22	(143)	3.29	0.00	777.14	0.98	0.00	0.52	776.44	0.28	0 12:01	0 00:00	0.00	0.00
23	(144)	1.91	0.00	777.68	0.78	0.00	0.48	777.12	0.22	0 12:00	0 00:00	0.00	0.00
24	(145)	0.96	0.00	778.26	0.58	0.00	0.42	777.84	0.16	0 12:00	0 00:00	0.00	0.00
25	(149)	4.11	0.00	777.76	1.13	0.00	0.37	776.95	0.32	0 12:01	0 00:00	0.00	0.00
26	(150)	2.89	0.00	778.40	1.02	0.00	0.23	777.66	0.28	0 12:00	0 00:00	0.00	0.00
27	(151)	1.56	0.00	778.93	0.78	0.00	0.22	778.36	0.21	0 12:00	0 00:00	0.00	0.00
28	(81)	4.72	0.00	775.50	1.23	0.00	1.27	774.62	0.35	0 12:00	0 00:00	0.00	0.00
29	(82)	3.46	0.00	776.17	1.13	0.00	0.12	775.36	0.32	0 12:00	0 00:00	0.00	0.00
30	(83)	2.05	0.00	776.71	0.92	0.00	0.08	776.05	0.26	0 11:58	0 00:00	0.00	0.00
31	(87)	3.23	0.00	775.73	0.96	0.00	0.54	775.05	0.28	0 12:01	0 00:00	0.00	0.00
32	(88)	1.84	0.00	776.27	0.76	0.00	0.50	775.73	0.22	0 12:00	0 00:00	0.00	0.00
33	(89)	0.88	0.00	776.79	0.50	0.00	0.50	776.45	0.16	0 11:59	0 00:00	0.00	0.00
34	(94)	4.11	0.00	776.38	1.13	0.00	0.37	775.57	0.32	0 12:01	0 00:00	0.00	0.00
35	(95)	2.89	0.00	777.02	1.02	0.00	0.23	776.28	0.28	0 12:00	0 00:00	0.00	0.00
36	(96)	1.56	0.00	777.55	0.78	0.00	0.22	776.98	0.21	0 12:00	0 00:00	0.00	0.00
37	D02	1.96	0.00	768.41	0.47	0.00	3.38	768.29	0.35	0 16:27	0 00:00	0.00	0.00
38	D04	32.25	0.34	771.46	2.83	0.00	5.25	770.24	1.61	0 12:01	0 00:00	0.00	0.00
39	D05	31.13	0.60	771.92	3.08	0.00	3.48	770.37	1.53	0 12:01	0 00:00	0.00	0.00
40	D06	30.58	0.58	772.37	3.31	0.00	3.30	770.50	1.44	0 12:01	0 00:00	0.00	0.00
41	D07	30.05	0.00	772.85	3.48	0.00	1.68	770.66	1.29	0 12:01	0 00:00	0.00	0.00
42	D08	30.67	1.38	773.52	3.58	0.00	0.98	770.97	1.03	0 12:01	0 00:00	0.00	0.00
43	D09	25.45	1.12	773.80	3.59	0.00	1.20	771.14	0.93	0 12:01	0 00:00	0.00	0.00
44	D10	24.90	1.12	773.99	3.00	0.00	0.00	771.79	0.80	0 12:01	0 12:01	0.32	6.00
45	D11	23.83	1.12	774.30	3.04	0.00	1.20	772.06	0.80	0 12:01	0 00:00	0.00	0.00
46	D12	18.84	0.73	774.50	2.96	0.00	0.04	772.30	0.76	0 12:01	0 00:00	0.00	0.00
47	D13	18.24	0.60	774.87	3.08	0.00	1.18	772.57	0.78	0 12:01	0 00:00	0.00	0.00
48	D14	18.45	0.73	775.31	3.14	0.00	3.33	772.94	0.77	0 12:01	0 00:00	0.00	0.00
49	D15	16.63	0.41	775.55	3.21	0.00	2.75	773.11	0.77	0 12:01	0 00:00	0.00	0.00
50	D16	15.78	0.19	775.76	3.24	0.00	1.34	773.29	0.77	0 12:04	0 00:00	0.00	0.00
51	D17	16.83	0.54	776.03	3.24	0.00	0.97	773.55	0.76	0 12:04	0 00:00	0.00	0.00
52	D18	13.23	1.81	776.21	2.44	0.00	0.06	774.38	0.61	0 12:05	0 00:00	0.00	0.00
53	D19	9.05	1.12	776.38	2.33	0.33	0.00	774.60	0.55	0 12:06	0 12:01	0.15	10.00
54	D20	9.32	1.12	776.53	2.21	0.21	0.00	774.84	0.52	0 12:06	0 12:03	0.10	9.00
55	D21	3.97	1.81	776.56	1.96	0.00	0.04	775.00	0.40	0 12:05	0 00:00	0.00	0.00
56	D22	2.36	0.47	776.60	0.89	0.00	0.61	775.96	0.25	0 12:05	0 00:00	0.00	0.00
57	D23	1.87	0.19	776.91	0.65	0.00	0.85	776.47	0.21	0 12:00	0 00:00	0.00	0.00
58	D24	1.82	0.95	778.72	0.83	0.00	0.17	778.12	0.23	0 12:01	0 00:00	0.00	0.00
59	D25	0.84	0.84	779.82	0.49	0.00	0.51	779.48	0.15	0 11:59	0 00:00	0.00	0.00
60	D27	33.79	0.60	771.11	2.46	0.00	2.30	770.23	1.58	0 12:02	0 00:00	0.00	0.00
61	D28	33.30	0.43	771.65	2.93	0.00	2.27	770.37	1.65	0 12:03	0 00:00	0.00	0.00
62	D29	32.65	2.63	772.36	3.16	0.00	2.64	770.61	1.41	0 12:03	0 00:00	0.00	0.00
63	D30	27.18	1.61	772.72	3.25	0.10	0.00	770.75	1.28	0 12:04	0 12:00	0.11	10.00
64	D31	26.52	1.68	773.04	3.29	0.00	1.96	770.89	1.14	0 12:03	0 00:00	0.00	0.00
65	D32	25.46	1.74	773.27	3.25	0.25	0.00	771.04	1.02	0 12:04	0 11:58	0.28	15.00
66	D33	24.02	1.79	773.46	3.16	0.00	1.54	771.24	0.94	0 12:03	0 00:00	0.00	0.00
67	D34	20.48	1.89	773.57	3.00	0.00	0.00	771.46	0.89	0 11:57	0 12:02	0.70	11.00
68	D35	18.64	1.14	773.88	2.68	0.18	0.00	772.03	0.83	0 12:00	0 11:57	0.01	14.00
69	D36	18.18	0.37	774.21	2.80	0.00	2.07	772.26	0.85	0 12:00	0 00:00	0.00	0.00
70	D37	16.29	0.47	774.37	2.88	0.00	3.28	772.34	0.85	0 12:00	0 00:00	0.00	0.00
71	D38	15.97	2.58	774.61	2.76	0.00	1.39	772.66	0.81	0 12:00	0 00:00	0.00	0.00
72	D39	14.68	1.74	774.64	2.50	0.00	0.00	772.86	0.72	0 11:56	0 12:01	1.31	14.00
73	D40	13.20	1.74	775.23	2.31	0.00	1.27	773.58	0.66	0 12:03	0 00:00	0.00	0.00
74	D41	11.50	1.74	775.51	2.32	0.32	0.00	773.80	0.61	0 12:05	0 12:00	0.28	14.00
75	D42	9.85	1.72	775.71	2.24	0.00	1.29	774.04	0.57	0 12:02	0 00:00	0.00	0.00
76	D43	4.92	1.44	775.74	2.00	0.00	0.00	774.19	0.45	0 12:00	0 12:02	0.09	6.00
77	D44	3.32	2.34	775.78	1.90	0.00	0.10	774.28	0.40	0 12:00	0 00:00	0.00	0.00
78	D45	1.03	1.03	776.11	0.59	0.00	0.41	775.70	0.18	0 12:00	0 00:00	0.00	0.00
79	D46	3.13	0.71	775.86	0.93	0.00	0.57	775.20	0.27	0 12:00	0 00:00	0.00	0.00
80	D47	2.33	0.65	776.44	0.74	0.00	0.76	775.93	0.23	0 12:00	0 00:00	0.00	0.00
81	D48	1.70	0.58	776.81	0.73	0.00	0.52	776.29	0.21	0 12:00	0 00:00	0.00	0.00

Junction Results

SN	Element ID	Peak Inflow (cfs)	Peak Lateral Inflow (cfs)	Max HGL Elevation Attained (ft)	Max HGL Depth Attained (ft)	Max Surcharge Depth Attained (ft)	Min Freeboard Attained (ft)	Average HGL Elevation Attained (ft)	Average HGL Depth Attained (ft)	Time of Max HGL Occurrence (days hh:mm)	Time of Peak Flooding Occurrence (days hh:mm)	Total Flooded Volume (ac-in)	Total Time Flooded (min)
82	D49	1.13	0.49	777.27	0.64	0.00	0.36	776.81	0.18	0 12:00	0 00:00	0.00	0.00
83	D50	0.65	0.65	777.29	0.47	0.00	0.53	776.95	0.13	0 12:00	0 00:00	0.00	0.00
84	D51	0.73	0.73	778.69	0.40	0.00	0.60	778.43	0.14	0 12:00	0 00:00	0.00	0.00
85	D52	0.54	0.54	778.81	0.34	0.00	0.66	778.59	0.12	0 12:00	0 00:00	0.00	0.00
86	D53	0.65	0.65	777.26	0.37	0.00	1.13	777.02	0.13	0 12:01	0 00:00	0.00	0.00
87	D54	0.90	0.90	777.88	0.53	0.00	0.47	777.51	0.16	0 12:01	0 00:00	0.00	0.00
88	D55	0.82	0.82	778.81	0.49	0.00	0.51	778.47	0.15	0 12:00	0 00:00	0.00	0.00
89	D56	0.30	0.30	776.08	0.24	0.00	0.76	775.92	0.08	0 12:00	0 00:00	0.00	0.00
90	D58	2.04	2.04	770.91	0.91	0.00	0.09	770.43	0.43	0 12:00	0 00:00	0.00	0.00
91	D60	34.10	2.02	773.70	4.95	0.00	0.00	770.93	2.18	0 05:40	0 09:27	0.54	4.00
92	D61	21.74	0.41	773.72	4.82	0.02	0.00	770.93	2.03	0 05:12	0 05:40	0.06	0.00
93	RD01	2.28	2.28	776.84	1.00	0.00	0.00	776.11	0.27	0 11:58	0 12:00	0.01	4.00
94	RD02	1.42	1.42	776.23	0.89	0.00	0.11	775.56	0.22	0 12:00	0 00:00	0.00	0.00
95	RD03	1.27	1.27	776.50	0.68	0.00	0.32	776.01	0.19	0 12:00	0 00:00	0.00	0.00
96	RD04	1.42	1.42	776.06	0.74	0.00	0.26	775.52	0.20	0 12:00	0 00:00	0.00	0.00
97	RD05	0.97	0.97	776.40	0.58	0.00	0.42	775.98	0.16	0 12:00	0 00:00	0.00	0.00
98	RD06	0.88	0.88	776.89	0.55	0.00	0.45	776.50	0.16	0 12:00	0 00:00	0.00	0.00
99	RD07	1.25	1.25	776.48	0.68	0.00	0.32	775.99	0.19	0 12:00	0 00:00	0.00	0.00
100	RD08	1.36	1.36	777.09	0.79	0.00	0.21	776.50	0.20	0 12:00	0 00:00	0.00	0.00
101	RD09	1.57	1.57	777.65	0.83	0.00	0.17	777.04	0.22	0 12:00	0 00:00	0.00	0.00
102	RD10	1.57	1.57	776.84	0.83	0.00	0.17	776.23	0.22	0 12:00	0 00:00	0.00	0.00
103	RD11	1.36	1.36	776.28	0.79	0.00	0.21	775.69	0.20	0 12:00	0 00:00	0.00	0.00
104	RD12	1.25	1.25	775.67	0.68	0.00	0.32	775.18	0.19	0 12:00	0 00:00	0.00	0.00
105	RD13	0.97	0.97	776.58	0.60	0.00	0.40	776.15	0.17	0 12:00	0 00:00	0.00	0.00
106	RD14	0.97	0.97	776.04	0.58	0.00	0.42	775.63	0.17	0 12:00	0 00:00	0.00	0.00
107	RD15	1.42	1.42	775.70	0.74	0.00	0.26	775.16	0.20	0 12:00	0 00:00	0.00	0.00
108	RD16	1.27	1.27	776.69	0.72	0.00	0.28	776.17	0.20	0 12:00	0 00:00	0.00	0.00
109	RD17	1.42	1.42	776.21	0.76	0.00	0.24	775.65	0.20	0 12:00	0 00:00	0.00	0.00
110	RD18	2.28	2.28	775.94	0.99	0.00	0.01	775.21	0.26	0 12:00	0 00:00	0.00	0.00
111	RD19	2.28	2.28	777.96	0.99	0.00	0.01	777.23	0.26	0 12:00	0 00:00	0.00	0.00
112	RD20	1.42	1.42	778.23	0.76	0.00	0.24	777.67	0.20	0 12:00	0 00:00	0.00	0.00
113	RD21	1.27	1.27	778.71	0.72	0.00	0.28	778.19	0.20	0 12:00	0 00:00	0.00	0.00
114	RD22	1.42	1.42	777.11	0.74	0.00	0.26	776.57	0.20	0 12:00	0 00:00	0.00	0.00
115	RD23	0.97	0.97	777.45	0.58	0.00	0.42	777.04	0.17	0 12:00	0 00:00	0.00	0.00
116	RD24	0.97	0.97	777.99	0.60	0.00	0.40	777.56	0.17	0 12:00	0 00:00	0.00	0.00
117	RD25	1.25	1.25	777.43	0.68	0.00	0.32	776.94	0.19	0 12:00	0 00:00	0.00	0.00
118	RD26	1.36	1.36	778.04	0.79	0.00	0.21	777.45	0.20	0 12:00	0 00:00	0.00	0.00
119	RD27	1.57	1.57	778.60	0.83	0.00	0.17	777.99	0.22	0 12:00	0 00:00	0.00	0.00
120	RD29	1.57	1.57	779.03	0.83	0.00	0.17	778.42	0.22	0 12:00	0 00:00	0.00	0.00
121	RD30	1.36	1.36	778.47	0.79	0.00	0.21	777.88	0.20	0 12:00	0 00:00	0.00	0.00
122	RD31	1.25	1.25	777.86	0.68	0.00	0.32	777.37	0.19	0 12:00	0 00:00	0.00	0.00
123	RD32	0.97	0.97	778.33	0.60	0.00	0.40	777.90	0.17	0 12:00	0 00:00	0.00	0.00
124	RD33	0.97	0.97	777.79	0.58	0.00	0.42	777.38	0.17	0 12:00	0 00:00	0.00	0.00
125	RD34	1.42	1.42	777.45	0.74	0.00	0.26	776.91	0.20	0 12:00	0 00:00	0.00	0.00
126	RD35	1.27	1.27	777.99	0.72	0.00	0.28	777.47	0.20	0 12:00	0 00:00	0.00	0.00
127	RD36	1.42	1.42	777.51	0.76	0.00	0.24	776.95	0.20	0 12:00	0 00:00	0.00	0.00
128	RD37	2.28	2.28	777.24	3.99	0.00	0.01	776.44	3.19	0 12:00	0 00:00	0.00	0.00

Pipe Input

SN	Element ID	Length (ft)	Inlet Invert Elevation (ft)	Inlet Invert Offset (ft)	Outlet Invert Elevation (ft)	Outlet Invert Offset (ft)	Total Drop (ft)	Average Slope (%)	Pipe Shape	Pipe Diameter or Height (in)	Pipe Width (in)	Manning's Roughness	Entrance Losses	Exit/Bend Losses	Additional Losses	Initial Flow (cfs)	Flap Gate	No. of Barrels
1	Link-01	49.90	771.00	2.25	767.00	-1.00	4.00	8.0200	CIRCULAR	12.000	12.000	0.0150	0.5000	0.5000	0.0000	0.00	No	1
2	Link-02	30.20	768.90	0.00	768.75	0.00	0.15	0.5000	CIRCULAR	12.000	12.000	0.0150	0.5000	0.5000	0.0000	0.00	No	1
3	Link-03	54.17	767.94	0.00	767.40	3.00	0.54	1.0000	CIRCULAR	24.000	24.000	0.0150	0.5000	0.5000	0.0000	0.00	No	1
4	P(100)	49.86	776.95	0.00	776.45	0.25	0.50	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
5	P(101)	52.12	777.72	0.00	777.20	0.25	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
6	P(102)	5.00	777.77	0.00	777.72	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
7	P(103)	5.00	777.25	0.00	777.20	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
8	P(104)	5.00	776.75	0.00	776.70	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
9	P(105)	90.03	774.40	0.00	773.50	4.30	0.90	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
10	P(106)	49.86	775.15	0.00	774.65	0.25	0.50	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
11	P(107)	52.12	775.92	0.00	775.40	0.25	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
12	P(108)	5.00	775.97	0.00	775.92	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
13	P(109)	5.00	775.45	0.00	775.40	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
14	P(110)	5.00	774.95	0.00	774.90	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
15	P(111)	91.03	774.41	0.00	773.50	3.75	0.91	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
16	P(112)	49.86	775.16	0.00	774.66	0.25	0.50	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
17	P(113)	52.12	775.93	0.00	775.41	0.25	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
18	P(114)	5.00	775.98	0.00	775.93	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
19	P(115)	5.00	775.46	0.00	775.41	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
20	P(116)	5.00	774.96	0.00	774.91	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
21	P(117)	94.06	774.44	0.00	773.50	3.20	0.94	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
22	P(118)	49.86	775.19	0.00	774.69	0.25	0.50	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
23	P(119)	52.12	775.96	0.00	775.44	0.25	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
24	P(120)	5.00	776.01	0.00	775.96	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
25	P(121)	5.00	775.49	0.00	775.44	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
26	P(122)	5.00	774.99	0.00	774.94	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
27	P(123)	120.37	775.70	0.00	774.50	2.65	1.20	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
28	P(124)	49.86	776.45	0.00	775.95	0.25	0.50	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
29	P(125)	52.12	777.22	0.00	776.70	0.25	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
30	P(126)	5.00	777.27	0.00	777.22	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
31	P(127)	5.00	776.75	0.00	776.70	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
32	P(128)	5.00	776.25	3.00	776.20	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
33	P(129)	115.56	776.16	0.00	775.00	2.08	1.16	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
34	P(130)	49.86	776.90	0.00	776.41	0.25	0.49	0.9800	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
35	P(131)	52.12	777.68	0.00	777.16	0.26	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
36	P(132)	5.00	777.73	0.00	777.68	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
37	P(133)	5.03	777.21	0.00	777.16	0.26	0.05	0.9900	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
38	P(134)	5.00	776.71	0.00	776.66	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
39	P(135)	113.42	776.63	0.00	775.50	2.03	1.13	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
40	P(136)	49.86	777.38	0.00	776.88	0.25	0.50	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
41	P(137)	52.12	778.15	0.00	777.63	0.25	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
42	P(138)	5.00	778.20	0.00	778.15	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
43	P(139)	5.00	777.68	0.00	777.63	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
44	P(140)	5.00	777.18	0.00	777.13	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
45	P(15)	58.56	770.00	0.00	768.50	0.50	1.50	2.5600	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
46	P(16)	123.16	769.37	0.00	769.06	0.00	0.31	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
47	P(16) (1)	226.84	769.94	0.00	769.37	0.00	0.57	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
48	P(17)	110.00	770.21	0.00	769.94	0.00	0.27	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
49	P(18)	110.00	770.99	0.00	770.21	0.00	0.78	0.7100	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
50	P(19)	110.00	771.26	0.00	770.99	0.00	0.27	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
51	P(20)	110.00	771.54	0.00	771.26	0.00	0.28	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
52	P(23)	192.59	773.77	0.00	773.29	0.50	0.48	0.2500	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
53	P(24)	110.00	774.05	0.00	773.77	0.00	0.28	0.2500	CIRCULAR	24.000	24.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
54	P(25)	110.00	774.32	0.00	774.05	0.00	0.27	0.2500	CIRCULAR	24.000	24.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
55	P(26)	110.00	774.60	0.00	774.32	0.00	0.28	0.2500	CIRCULAR	24.000	24.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
56	P(27)	121.80	775.71	0.00	775.10	0.50	0.61	0.5000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
57	P(28)	110.16	776.26	0.00	775.71	0.00	0.55	0.5000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
58	P(29)	113.60	777.89	0.00	776.76	0.50	1.13	0.9900	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
59	P(30)	144.00	779.33	0.00	777.89	0.00	1.44	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
60	P(31)	58.17	768.65	0.00	768.50	0.50	0.15	0.2600	CIRCULAR	48.000	48.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
61	P(32)	30.00	768.72	0.00	768.65	0.00	0.07	0.2300	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
62	P(33)	191.79	769.20	0.00	768.72	0.00	0.48	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
63	P(34)	110.00	769.47	0.00	769.20	0.00	0.27	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
64	P(35)	110.00	769.75	0.00	769.47	0.00	0.28	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
65	P(36)	110.00	770.02	0.00	769.75	0.00	0.27	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
66	P(37)	110.00	770.30	0.00	770.02	0.00	0.28	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
67	P(38)	110.00	770.57	0.00	770.30	0.00	0.27	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
68	P(39)	50.09	771.20	0.00	771.07	0.50	0.13	0.2600	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
69	P(39) (1)	84.79	771.41	0.00	771.20	0.00	0.21	0.2500	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
70	P(40)	30.63	771.49	0.00	771.41	0.00	0.08	0.2600	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
71	P(41)	145.53	771.85	0.00	771.49	0.00	0.36	0.2500	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
72	P(42)	115.67	772.14	0.00	771.85	0.00	0.29	0.2500	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
73	P(43)	110.00	772.92	0.00	772.64	0.50	0.28	0.2500	CIRCULAR	24.000	24.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
74	P(44)	110.00	773.19	0.00	772.92	0.00	0.27	0.2500	CIRCULAR	24.000	24.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
75	P(45)	110.00	773.47	0.00	773.19	0.00	0.28	0.2500	CIRCULAR	24.000	24.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
76	P(46)	110.00	773.74	0.00	773.47	0.00	0.27	0.2500	CIRCULAR	24.000	24.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
77	P(47)	55.00	773.88	0.00	773.74	0.00	0.14	0.2500	CIRCULAR	24.000	24.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
78	P(48)	255.74	775.52	0.00	774.88	1.00	0.64	0.2500	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
79	P(49)	100.80	771.79	0.00	771.54	0.00	0.25	0.2500	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
80	P(50)	152.05	772.17	0.00	771.79	0.00	0.38	0.2500	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
81	P(51)	108.00	776.89	0.00	775.81	3.64	1.08	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
82	P(53)	70.60	772.52	0.00	772.34	0.00	0.18	0.2500	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1

Pipe Input

SN	Element ID	Length (ft)	Inlet Invert Elevation (ft)	Inlet Invert Offset (ft)	Outlet Invert Elevation (ft)	Outlet Invert Offset (ft)	Total Drop (ft)	Average Slope (%)	Pipe Shape	Pipe Diameter or Height (in)	Pipe Width (in)	Manning's Roughness	Entrance Losses	Exit/Bend Losses	Additional Losses	Initial Flow (cfs)	Flap Gate	No. of Barrels
83	P(54)	117.00	778.47	0.00	777.30	4.96	1.17	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
84	P(55)	163.40	778.29	0.00	776.65	5.16	1.64	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
85	P(56)	161.45	774.93	0.00	773.31	1.90	1.62	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
86	P(57)	76.76	775.70	0.00	774.93	0.00	0.77	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
87	P(58)	13.14	776.08	0.00	775.95	0.25	0.13	0.9900	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
88	P(59)	29.92	776.63	0.00	776.33	0.25	0.30	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
89	P(60)	13.28	776.82	0.00	776.63	0.00	0.19	1.4300	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
90	P(61)	52.97	768.63	0.00	768.50	0.50	0.13	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
91	P(62)	82.14	768.83	-0.01	768.63	0.00	0.20	0.2400	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
92	P(63)	90.00	769.05	-0.01	768.83	-0.01	0.22	0.2400	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
93	P(64)	108.60	772.79	0.00	772.52	0.00	0.27	0.2500	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
94	P(65)	67.82	778.32	0.00	777.64	5.47	0.68	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
95	P(66)	82.14	777.35	0.00	775.71	7.08	1.64	2.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
96	P(67)	46.08	773.84	-2.00	772.92	4.20	0.92	2.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
97	P(68)	69.52	772.34	0.00	772.17	0.00	0.17	0.2400	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
98	P(69)	127.13	774.27	0.00	773.00	3.06	1.27	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
99	P(70)	52.12	775.04	0.00	774.52	0.25	0.52	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
100	P(71)	49.86	775.79	0.00	775.29	0.25	0.50	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
101	P(72)	5.00	775.84	0.00	775.79	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
102	P(73)	5.00	775.34	0.00	775.29	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
103	P(74)	5.00	775.82	0.00	775.77	1.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
104	P(75)	126.56	774.77	0.00	773.50	3.29	1.27	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
105	P(76)	49.86	775.51	0.00	775.02	0.25	0.49	0.9800	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
106	P(77)	52.12	776.29	0.00	775.77	0.26	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
107	P(78)	5.00	776.34	0.00	776.29	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
108	P(79)	5.00	775.82	0.00	775.77	0.26	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
109	P(80)	5.00	775.32	0.00	775.27	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
110	P(81)	125.15	775.25	0.00	774.00	2.74	1.25	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
111	P(82)	49.86	776.00	0.00	775.50	0.25	0.50	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
112	P(83)	52.12	776.77	0.00	776.25	0.25	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
113	P(84)	5.00	776.82	0.00	776.77	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
114	P(85)	5.00	776.30	0.00	776.25	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
115	P(86)	5.00	775.80	0.00	775.75	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
116	P(87)	92.04	776.42	0.00	775.50	2.71	0.92	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
117	P(88)	49.86	777.17	0.00	776.67	0.25	0.50	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
118	P(89)	52.12	777.94	0.00	777.42	0.25	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
119	P(90)	5.00	777.99	0.00	777.94	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
120	P(91)	5.00	777.47	0.00	777.42	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
121	P(92)	5.00	776.97	0.00	776.92	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
122	P(93)	154.50	775.82	0.00	774.27	0.50	1.55	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
123	P(94)	49.86	776.57	0.00	776.07	0.25	0.50	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
124	P(95)	52.12	777.34	0.00	776.82	0.25	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
125	P(96)	5.00	777.39	0.00	777.34	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
126	P(97)	5.00	776.87	0.00	776.82	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
127	P(98)	5.00	776.37	0.00	776.32	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
128	P(99)	137.40	776.20	0.00	774.82	0.50	1.38	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1

Pipe Results

SN	Element ID	Peak Flow (cfs)	Time of Peak Flow Occurrence (days hh:mm)	Design Flow Capacity (cfs)	Peak Flow/ Design Flow Ratio	Peak Flow Velocity (ft/sec)	Travel Time (min)	Peak Flow Depth (ft)	Peak Flow Depth/ Total Depth Ratio	Total Time Surcharged (min)	Froude Number	Reported Condition
1	Link-01	33.91	0 10:26	7.57	4.48	50.00	0.02	0.69	0.83	0.00		> CAPACITY
2	Link-02	34.06	0 09:27	2.18	15.65	50.00	0.01	1.00	1.00	843.00		SURCHARGED
3	Link-03	1.96	0 16:27	19.58	0.10	3.70	0.24	0.45	0.23	0.00		Calculated
4	P(100)	2.88	0 12:00	7.01	0.41	3.28	0.25	0.93	0.76	0.00		Calculated
5	P(101)	1.55	0 12:00	3.86	0.40	2.86	0.30	0.77	0.77	0.00		Calculated
6	P(102)	1.56	0 12:00	3.86	0.41	2.31	0.04	0.80	0.81	0.00		Calculated
7	P(103)	1.35	0 12:00	3.86	0.35	2.75	0.03	0.77	0.78	0.00		Calculated
8	P(104)	1.24	0 12:00	3.86	0.32	2.94	0.03	0.64	0.66	0.00		Calculated
9	P(105)	4.85	0 12:00	11.38	0.43	4.01	0.37	0.96	0.65	0.00		Calculated
10	P(106)	2.64	0 12:00	7.01	0.38	3.05	0.27	0.97	0.79	0.00		Calculated
11	P(107)	1.25	0 12:00	3.86	0.33	2.74	0.32	0.69	0.70	0.00		Calculated
12	P(108)	1.26	0 12:00	3.86	0.33	2.27	0.04	0.70	0.70	0.00		Calculated
13	P(109)	1.41	0 12:00	3.86	0.37	2.86	0.03	0.73	0.74	0.00		Calculated
14	P(110)	2.27	0 12:00	3.86	0.59	3.14	0.03	0.87	0.87	0.00		Calculated
15	P(111)	3.25	0 12:00	11.38	0.29	3.62	0.42	0.75	0.51	0.00		Calculated
16	P(112)	1.90	0 12:00	7.01	0.27	3.11	0.27	0.74	0.60	0.00		Calculated
17	P(113)	0.95	0 12:00	3.86	0.25	2.79	0.31	0.54	0.55	0.00		Calculated
18	P(114)	0.96	0 12:00	3.86	0.25	2.28	0.04	0.58	0.59	0.00		Calculated
19	P(115)	0.96	0 12:00	3.86	0.25	2.81	0.03	0.55	0.55	0.00		Calculated
20	P(116)	1.41	0 12:00	3.86	0.37	2.94	0.03	0.60	0.60	0.00		Calculated
21	P(117)	4.05	0 12:00	11.38	0.36	3.78	0.41	0.85	0.58	0.00		Calculated
22	P(118)	2.88	0 12:00	7.01	0.41	3.28	0.25	0.93	0.76	0.00		Calculated
23	P(119)	1.55	0 12:00	3.86	0.40	2.86	0.30	0.77	0.77	0.00		Calculated
24	P(120)	1.56	0 12:00	3.86	0.41	2.31	0.04	0.80	0.81	0.00		Calculated
25	P(121)	1.35	0 12:00	3.86	0.35	2.75	0.03	0.77	0.78	0.00		Calculated
26	P(122)	1.24	0 12:00	3.86	0.32	2.94	0.03	0.64	0.65	0.00		Calculated
27	P(123)	4.84	0 12:00	11.36	0.43	4.01	0.50	0.95	0.65	0.00		Calculated
28	P(124)	2.64	0 12:00	7.01	0.38	3.06	0.27	0.97	0.79	0.00		Calculated
29	P(125)	1.25	0 12:00	3.86	0.33	2.74	0.32	0.69	0.70	0.00		Calculated
30	P(126)	1.26	0 12:00	3.86	0.33	2.27	0.04	0.70	0.70	0.00		Calculated
31	P(127)	1.41	0 12:00	3.86	0.37	2.86	0.03	0.73	0.74	0.00		Calculated
32	P(128)	2.27	0 12:00	3.86	0.59	3.15	0.03	0.86	0.87	0.00		Calculated
33	P(129)	3.23	0 12:01	11.40	0.28	3.63	0.53	0.74	0.51	0.00		Calculated
34	P(130)	1.90	0 12:00	6.94	0.27	3.11	0.27	0.73	0.60	0.00		Calculated
35	P(131)	0.95	0 12:00	3.86	0.25	2.80	0.31	0.54	0.55	0.00		Calculated
36	P(132)	0.96	0 12:00	3.86	0.25	2.28	0.04	0.58	0.59	0.00		Calculated
37	P(133)	0.96	0 12:00	3.85	0.25	2.81	0.03	0.54	0.55	0.00		Calculated
38	P(134)	1.41	0 12:00	3.86	0.37	2.95	0.03	0.59	0.60	0.00		Calculated
39	P(135)	4.04	0 12:01	11.36	0.36	3.78	0.50	0.85	0.58	0.00		Calculated
40	P(136)	2.88	0 12:00	7.01	0.41	3.28	0.25	0.93	0.76	0.00		Calculated
41	P(137)	1.55	0 12:00	3.86	0.40	2.86	0.30	0.77	0.77	0.00		Calculated
42	P(138)	1.56	0 12:00	3.86	0.41	2.31	0.04	0.80	0.81	0.00		Calculated
43	P(139)	1.35	0 12:00	3.86	0.35	2.75	0.03	0.77	0.78	0.00		Calculated
44	P(140)	1.24	0 12:00	3.86	0.32	2.94	0.03	0.64	0.65	0.00		Calculated
45	P(15)	2.03	0 12:00	6.18	0.33	2.74	0.36	0.90	0.93	0.00		Calculated
46	P(16)	30.04	0 12:01	36.25	0.83	4.25	0.48	3.00	1.00	10.00		SURCHARGED
47	P(16) (1)	30.05	0 12:01	36.22	0.83	4.25	0.89	3.00	1.00	11.00		SURCHARGED
48	P(17)	25.40	0 12:07	35.80	0.71	3.59	0.51	3.00	1.00	11.00		SURCHARGED
49	P(18)	22.55	0 12:08	60.85	0.37	3.44	0.53	3.00	1.00	6.00		SURCHARGED
50	P(19)	23.87	0 12:01	35.80	0.67	3.70	0.50	3.00	1.00	4.00		SURCHARGED
51	P(20)	18.88	0 12:02	36.46	0.52	3.22	0.57	2.95	0.99	0.00		Calculated
52	P(23)	12.93	0 12:10	22.18	0.58	3.74	0.86	2.47	0.99	0.00		Calculated
53	P(24)	10.52	0 12:10	12.36	0.85	3.36	0.55	2.00	1.00	10.00		SURCHARGED
54	P(25)	8.01	0 12:01	12.14	0.66	2.76	0.66	2.00	1.00	9.00		SURCHARGED
55	P(26)	4.34	0 12:01	12.36	0.35	1.65	1.11	1.97	0.99	0.00		Calculated
56	P(27)	2.27	0 12:02	8.05	0.28	2.89	0.70	1.16	0.78	0.00		Calculated
57	P(28)	1.89	0 12:00	8.04	0.23	2.46	0.75	0.76	0.51	0.00		Calculated
58	P(29)	1.69	0 12:01	3.85	0.44	3.15	0.60	0.62	0.65	0.00		Calculated
59	P(30)	0.88	0 11:59	3.86	0.23	1.65	1.45	0.65	0.66	0.00		Calculated
60	P(31)	33.78	0 12:02	79.02	0.43	5.07	0.19	2.09	0.52	0.00		Calculated
61	P(32)	33.27	0 12:03	34.90	0.95	4.97	0.10	2.69	0.90	0.00		Calculated
62	P(33)	32.65	0 12:03	36.15	0.90	4.63	0.69	2.96	0.99	0.00		Calculated
63	P(34)	28.02	0 12:09	35.80	0.78	3.96	0.46	3.00	1.00	12.00		SURCHARGED
64	P(35)	26.64	0 12:11	36.46	0.73	3.79	0.48	3.00	1.00	14.00		SURCHARGED
65	P(36)	25.19	0 12:11	35.80	0.70	3.56	0.51	3.00	1.00	15.00		SURCHARGED
66	P(37)	23.98	0 11:57	36.46	0.66	3.39	0.54	3.00	1.00	14.00		SURCHARGED
67	P(38)	19.19	0 11:57	35.80	0.54	2.85	0.64	3.00	1.00	11.00		SURCHARGED
68	P(39)	18.64	0 12:00	22.64	0.82	4.02	0.21	2.50	1.00	11.00		SURCHARGED
69	P(39) (1)	17.52	0 12:00	22.11	0.79	3.58	0.39	2.50	1.00	14.00		SURCHARGED
70	P(40)	15.78	0 11:57	22.71	0.69	3.21	0.16	2.50	1.00	15.00		SURCHARGED
71	P(41)	15.40	0 11:56	22.10	0.70	3.14	0.77	2.50	1.00	15.00		SURCHARGED
72	P(42)	11.63	0 12:10	22.25	0.52	2.41	0.80	2.50	1.00	14.00		SURCHARGED
73	P(43)	13.21	0 12:03	12.36	1.07	4.20	0.44	2.00	1.00	14.00		SURCHARGED
74	P(44)	9.46	0 12:07	12.14	0.78	3.01	0.61	2.00	1.00	14.00		SURCHARGED
75	P(45)	9.78	0 12:00	12.36	0.79	3.11	0.59	2.00	1.00	11.00		SURCHARGED
76	P(46)	4.22	0 12:00	12.14	0.35	1.81	1.01	2.00	1.00	6.00		SURCHARGED
77	P(47)	3.51	0 12:00	12.36	0.28	1.58	0.58	1.94	0.98	0.00		Calculated
78	P(48)	1.00	0 12:00	1.93	0.52	2.32	1.84	0.73	0.75	0.00		Calculated
79	P(49)	18.22	0 12:04	22.13	0.82	3.71	0.45	2.50	1.00	9.00		SURCHARGED
80	P(50)	17.74	0 12:04	22.21	0.80	3.62	0.70	2.50	1.00	10.00		SURCHARGED
81	P(51)	0.77	0 12:00	11.38	0.07	2.80	0.64	0.30	0.21	0.00		Calculated

Pipe Results

SN	Element ID	Peak Flow (cfs)	Time of Peak Flow Occurrence (days hh:mm)	Design Flow Capacity (cfs)	Peak Flow/ Design Flow Ratio	Peak Flow Velocity (ft/sec)	Travel Time (min)	Peak Flow Depth (ft)	Peak Flow Depth/ Total Depth Ratio	Total Time Surcharged (min)	Froude Number	Reported Condition
82	P(53)	15.71	0 12:00	22.44	0.70	3.20	0.37	2.50	1.00	11.00		SURCHARGED
83	P(54)	0.52	0 12:00	3.86	0.13	2.68	0.73	0.29	0.30	0.00		Calculated
84	P(55)	0.70	0 12:00	3.87	0.18	2.91	0.94	0.34	0.35	0.00		Calculated
85	P(56)	2.97	0 12:00	11.40	0.26	3.50	0.77	0.90	0.61	0.00		Calculated
86	P(57)	2.43	0 12:00	11.40	0.21	2.49	0.51	0.82	0.56	0.00		Calculated
87	P(58)	1.70	0 12:00	6.96	0.24	3.27	0.07	0.61	0.49	0.00		Calculated
88	P(59)	1.13	0 12:00	3.86	0.29	2.94	0.17	0.55	0.56	0.00		Calculated
89	P(60)	0.64	0 12:00	4.62	0.14	1.66	0.13	0.55	0.55	0.00		Calculated
90	P(61)	32.26	0 12:01	35.79	0.90	5.47	0.16	2.32	0.78	0.00		Calculated
91	P(62)	31.08	0 12:01	36.53	0.85	4.44	0.31	2.91	0.97	0.00		Calculated
92	P(63)	30.57	0 12:01	35.72	0.86	4.32	0.35	3.00	1.00	6.00		SURCHARGED
93	P(64)	15.59	0 12:00	22.16	0.70	3.18	0.57	2.50	1.00	12.00		SURCHARGED
94	P(65)	0.86	0 12:00	3.86	0.22	2.94	0.38	0.39	0.41	0.00		Calculated
95	P(66)	0.90	0 12:00	5.45	0.16	3.26	0.42	0.38	0.40	0.00		Calculated
96	P(67)	0.30	0 12:00	9.72	0.03	3.04	0.25	0.18	0.18	0.00		Calculated
97	P(68)	16.12	0 12:00	21.97	0.73	3.29	0.35	2.50	1.00	10.00		SURCHARGED
98	P(69)	4.69	0 12:00	11.37	0.41	3.97	0.53	0.94	0.63	0.00		Calculated
99	P(70)	3.45	0 12:00	6.99	0.49	3.28	0.26	1.05	0.84	0.00		Calculated
100	P(71)	2.04	0 11:58	3.87	0.53	2.94	0.28	0.90	0.90	0.00		Calculated
101	P(72)	2.05	0 11:58	3.86	0.53	2.65	0.03	0.96	0.96	0.00		Calculated
102	P(73)	1.42	0 12:00	3.86	0.37	2.63	0.03	0.89	0.89	0.00		Calculated
103	P(74)	1.26	0 12:00	3.86	0.33	2.94	0.03	0.54	0.54	0.00		Calculated
104	P(75)	3.15	0 12:01	11.40	0.28	3.63	0.58	0.73	0.50	0.00		Calculated
105	P(76)	1.82	0 12:00	6.94	0.26	3.09	0.27	0.72	0.59	0.00		Calculated
106	P(77)	0.88	0 11:59	3.86	0.23	2.77	0.31	0.49	0.50	0.00		Calculated
107	P(78)	0.88	0 12:00	3.86	0.23	2.28	0.04	0.52	0.52	0.00		Calculated
108	P(79)	0.96	0 12:00	3.86	0.25	2.86	0.03	0.54	0.54	0.00		Calculated
109	P(80)	1.41	0 12:00	3.86	0.37	2.98	0.03	0.58	0.59	0.00		Calculated
110	P(81)	4.03	0 12:01	11.37	0.35	3.78	0.55	0.85	0.58	0.00		Calculated
111	P(82)	2.88	0 12:00	7.01	0.41	3.28	0.25	0.93	0.76	0.00		Calculated
112	P(83)	1.55	0 12:00	3.86	0.40	2.86	0.30	0.77	0.77	0.00		Calculated
113	P(84)	1.56	0 12:00	3.86	0.41	2.31	0.04	0.80	0.81	0.00		Calculated
114	P(85)	1.35	0 12:00	3.86	0.35	2.75	0.03	0.77	0.78	0.00		Calculated
115	P(86)	1.24	0 12:00	3.86	0.32	2.94	0.03	0.64	0.65	0.00		Calculated
116	P(87)	4.85	0 12:00	11.38	0.43	4.01	0.38	0.96	0.65	0.00		Calculated
117	P(88)	2.64	0 12:00	7.01	0.38	3.05	0.27	0.97	0.79	0.00		Calculated
118	P(89)	1.25	0 12:00	3.86	0.33	2.74	0.32	0.69	0.70	0.00		Calculated
119	P(90)	1.26	0 12:00	3.86	0.33	2.27	0.04	0.70	0.70	0.00		Calculated
120	P(91)	1.41	0 12:00	3.86	0.37	2.86	0.03	0.73	0.74	0.00		Calculated
121	P(92)	2.27	0 12:00	3.86	0.59	3.14	0.03	0.87	0.87	0.00		Calculated
122	P(93)	3.26	0 12:00	11.40	0.29	3.05	0.84	1.19	0.83	0.00		Calculated
123	P(94)	1.90	0 12:00	7.01	0.27	3.11	0.27	0.74	0.60	0.00		Calculated
124	P(95)	0.95	0 12:00	3.86	0.25	2.79	0.31	0.54	0.55	0.00		Calculated
125	P(96)	0.96	0 12:00	3.86	0.25	2.28	0.04	0.58	0.59	0.00		Calculated
126	P(97)	0.96	0 12:00	3.86	0.25	2.81	0.03	0.55	0.55	0.00		Calculated
127	P(98)	1.41	0 12:00	3.86	0.37	2.94	0.03	0.60	0.60	0.00		Calculated
128	P(99)	4.07	0 12:00	11.40	0.36	3.46	0.66	1.25	0.88	0.00		Calculated

Storage Nodes

Storage Node : POND

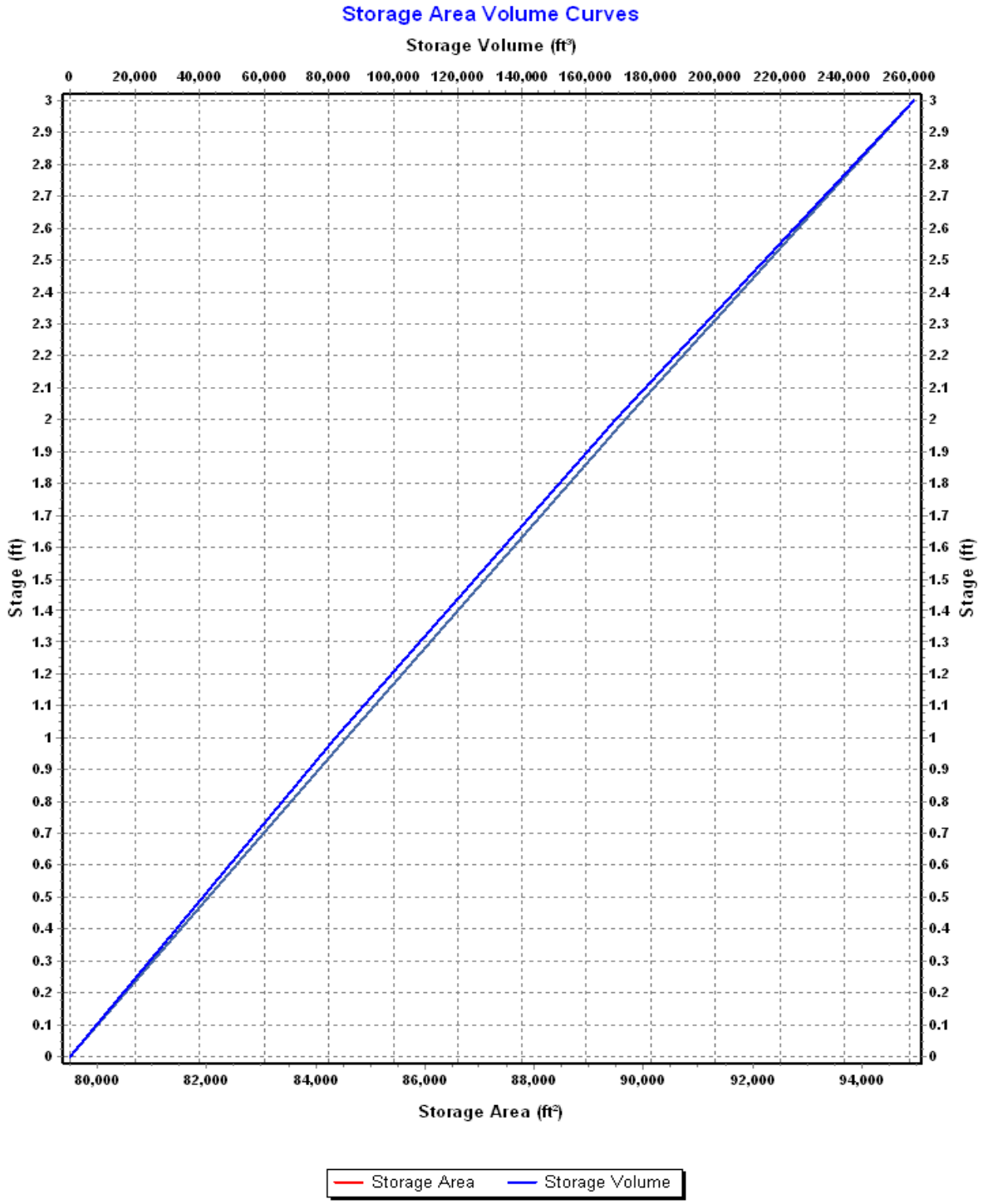
Input Data

Invert Elevation (ft) 768.00
Max (Rim) Elevation (ft) 772.00
Max (Rim) Offset (ft) 4.00
Initial Water Elevation (ft) 768.00
Initial Water Depth (ft) 0.00
Ponded Area (ft²) 100290.00
Evaporation Loss 0.00

Storage Area Volume Curves

Storage Curve : Storage-POND

Stage (ft)	Storage Area (ft²)	Storage Volume (ft³)
0	79508	0.000
1	84543	82025.50
2	89680	169137.00
3	94939	261446.50


Storage Area Volume Curves
Storage Volume (ft³)
0
20,000
40,000
60,000
80,000
100,000
120,000
140,000
160,000
180,000
200,000
220,000
240,000
260,000
Stage (ft)
3
2.9
2.8
2.7
2.6
2.5
2.4
2.3
2.2
2.1
2
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
80,000
82,000
84,000
86,000
88,000
90,000
92,000
94,000
Storage Area (ft²)
Storage Area
Storage Volume

Storage Node : POND (continued)

Outflow Weirs

SN	Element ID	Weir Type	Flap Gate	Crest Elevation (ft)	Crest Offset (ft)	Length (ft)	Weir Total Height (ft)	Discharge Coefficient
1	Weir-RIM	Rectangular	No	770.50	2.50	8.00	1.00	3.33
2	Weir-Spillway	Rectangular	No	771.25	3.25	20.00	0.60	3.33

Outflow Orifices

SN	Element ID	Orifice Type	Orifice Shape	Flap Gate	Circular Orifice Diameter (in)	Rectangular Orifice Height (in)	Rectangular Orifice Width (in)	Orifice Invert Elevation (ft)	Orifice Coefficient
1	Orifice-WQv	Side	CIRCULAR	No	6.10			768.00	0.61

Output Summary Results

Peak Inflow (cfs) 71.96
Peak Lateral Inflow (cfs) 1.91
Peak Outflow (cfs) 1.96
Peak Exfiltration Flow Rate (cfm) 0.00
Max HGL Elevation Attained (ft) 770.57
Max HGL Depth Attained (ft) 2.57
Average HGL Elevation Attained (ft) 769.79
Average HGL Depth Attained (ft) 1.79
Time of Max HGL Occurrence (days hh:mm) 0 16:27
Total Exfiltration Volume (1000-ft³) 0.000
Total Flooded Volume (ac-in) 0
Total Time Flooded (min) 0
Total Retention Time (sec) 0.00

Project Description

File Name ..... 2015-10-21_DESIGN.SPF

Project Options

Flow Units ..... CFS
Elevation Type ..... Elevation
Hydrology Method ..... SCS TR-55
Time of Concentration (TOC) Method ..... SCS TR-55
Link Routing Method ..... Hydrodynamic
Enable Overflow Ponding at Nodes ..... YES
Skip Steady State Analysis Time Periods ..... NO

Analysis Options

Start Analysis On ..... Sep 27, 2015 00:00:00
End Analysis On ..... Sep 28, 2015 00:00:00
Start Reporting On ..... Sep 27, 2015 00:00:00
Antecedent Dry Days ..... 0 days
Runoff (Dry Weather) Time Step ..... 0 01:00:00 days hh:mm:ss
Runoff (Wet Weather) Time Step ..... 0 00:05:00 days hh:mm:ss
Reporting Time Step ..... 0 00:05:00 days hh:mm:ss
Routing Time Step ..... 30 seconds

Number of Elements

	Qty
Rain Gages	1
Subbasins	91
Nodes	130
Junctions	128
Outfalls	1
Flow Diversions	0
Inlets	0
Storage Nodes	1
Links	131
Channels	0
Pipes	128
Pumps	0
Orifices	1
Weirs	2
Outlets	0
Pollutants	0
Land Uses	0

Rainfall Details

SN	Rain Gage ID	Data Source	Data Source ID	Rainfall Type	Rain Units	State	County	Return Period (years)	Rainfall Depth (inches)	Rainfall Distribution
1	Rain Gage-01	Time Series	TS-005	Cumulative	inches	Ohio	Franklin	5	3.20	SCS Type II 24-hr

Subbasin Summary

SN	Subbasin ID	Area (ac)	Weighted Curve Number	Total Rainfall (in)	Total Runoff (in)	Total Runoff Volume (ac-in)	Peak Runoff (cfs)	Time of Concentration (days hh:mm:ss)
1	Sub-D04	0.10	98.00	3.20	2.96	0.30	0.43	0 00:05:00
2	Sub-D05	0.18	98.00	3.20	2.97	0.53	0.75	0 00:05:00
3	Sub-D06	0.17	98.00	3.20	2.97	0.50	0.72	0 00:05:00
4	Sub-D08	0.41	98.00	3.20	2.97	1.22	1.70	0 00:05:00
5	Sub-D09	0.33	98.00	3.20	2.97	0.98	1.39	0 00:05:00
6	Sub-D10	0.33	98.00	3.20	2.97	0.98	1.39	0 00:05:00
7	Sub-D11	0.33	98.00	3.20	2.97	0.98	1.39	0 00:05:00
8	Sub-D12	0.22	98.00	3.20	2.97	0.65	0.91	0 00:05:00
9	Sub-D13	0.18	98.00	3.20	2.97	0.53	0.75	0 00:05:00
10	Sub-D14	0.22	98.00	3.20	2.97	0.65	0.91	0 00:05:00
11	Sub-D15	0.12	98.00	3.20	2.96	0.36	0.51	0 00:05:00
12	Sub-D16	0.06	98.00	3.20	2.95	0.18	0.24	0 00:05:00
13	Sub-D17	0.16	98.00	3.20	2.97	0.47	0.67	0 00:05:00
14	Sub-D18	0.54	98.00	3.20	2.97	1.60	2.24	0 00:05:00
15	Sub-D19	0.33	98.00	3.20	2.97	0.98	1.39	0 00:05:00
16	Sub-D20	0.33	98.00	3.20	2.97	0.98	1.39	0 00:05:00
17	Sub-D21	0.54	98.00	3.20	2.97	1.60	2.24	0 00:05:00
18	Sub-D22	0.14	98.00	3.20	2.97	0.42	0.59	0 00:05:00
19	Sub-D23	0.06	98.00	3.20	2.95	0.18	0.24	0 00:05:00
20	Sub-D24	0.28	98.00	3.20	2.97	0.83	1.17	0 00:05:00
21	Sub-D25	0.25	98.00	3.20	2.97	0.74	1.04	0 00:05:00
22	Sub-D27	0.18	98.00	3.20	2.97	0.53	0.75	0 00:05:00
23	Sub-D28	0.13	98.00	3.20	2.97	0.39	0.53	0 00:05:00
24	Sub-D29	0.78	98.00	3.20	2.97	2.31	3.25	0 00:05:00
25	Sub-D30	0.48	98.00	3.20	2.97	1.42	2.00	0 00:05:00
26	Sub-D31	0.50	98.00	3.20	2.97	1.48	2.08	0 00:05:00
27	Sub-D32	0.52	98.00	3.20	2.97	1.54	2.16	0 00:05:00
28	Sub-D33	0.53	98.00	3.20	2.97	1.57	2.21	0 00:05:00
29	Sub-D34	0.56	98.00	3.20	2.97	1.66	2.34	0 00:05:00
30	Sub-D35	0.34	98.00	3.20	2.97	1.01	1.41	0 00:05:00
31	Sub-D36	0.11	98.00	3.20	2.96	0.33	0.45	0 00:05:00
32	Sub-D37	0.14	98.00	3.20	2.97	0.42	0.59	0 00:05:00
33	Sub-D38	0.77	98.00	3.20	2.97	2.28	3.20	0 00:05:00
34	Sub-D39	0.52	98.00	3.20	2.97	1.54	2.16	0 00:05:00
35	Sub-D40	0.52	98.00	3.20	2.97	1.54	2.16	0 00:05:00
36	Sub-D41	0.52	98.00	3.20	2.97	1.54	2.16	0 00:05:00
37	Sub-D42	0.51	98.00	3.20	2.97	1.51	2.13	0 00:05:00
38	Sub-D43	0.43	98.00	3.20	2.97	1.28	1.78	0 00:05:00
39	Sub-D44	0.70	98.00	3.20	2.97	2.08	2.90	0 00:05:00
40	Sub-D45	0.31	98.00	3.20	2.97	0.92	1.28	0 00:05:00
41	Sub-D46	0.21	98.00	3.20	2.97	0.62	0.88	0 00:05:00
42	Sub-D47	0.19	98.00	3.20	2.97	0.56	0.80	0 00:05:00
43	Sub-D48	0.17	98.00	3.20	2.97	0.50	0.72	0 00:05:00
44	Sub-D49	0.15	98.00	3.20	2.97	0.44	0.61	0 00:05:00
45	Sub-D50	0.19	98.00	3.20	2.97	0.56	0.80	0 00:05:00
46	Sub-D51	0.22	98.00	3.20	2.97	0.65	0.91	0 00:05:00
47	Sub-D52	0.16	98.00	3.20	2.97	0.47	0.67	0 00:05:00
48	Sub-D53	0.19	98.00	3.20	2.97	0.56	0.80	0 00:05:00
49	Sub-D54	0.27	98.00	3.20	2.97	0.80	1.12	0 00:05:00
50	Sub-D55	0.24	98.00	3.20	2.97	0.71	1.01	0 00:05:00
51	Sub-D56	0.09	98.00	3.20	2.96	0.27	0.37	0 00:05:00
52	Sub-D58	0.61	98.00	3.20	2.97	1.81	2.53	0 00:05:00
53	Sub-D60	0.60	98.00	3.20	2.97	1.78	2.50	0 00:05:00
54	Sub-D61	0.12	98.00	3.20	2.96	0.36	0.51	0 00:05:00
55	Sub-POND	1.29	80.00	3.20	1.40	1.81	2.87	0 00:05:00
56	Sub-RD01	0.68	98.00	3.20	2.97	2.02	2.82	0 00:05:00
57	Sub-RD02	0.42	98.00	3.20	2.97	1.25	1.76	0 00:05:00
58	Sub-RD03	0.38	98.00	3.20	2.97	1.13	1.57	0 00:05:00
59	Sub-RD04	0.42	98.00	3.20	2.97	1.25	1.76	0 00:05:00
60	Sub-RD05	0.29	98.00	3.20	2.97	0.86	1.20	0 00:05:00
61	Sub-RD06	0.26	98.00	3.20	2.97	0.77	1.09	0 00:05:00
62	Sub-RD07	0.37	98.00	3.20	2.97	1.10	1.54	0 00:05:00
63	Sub-RD08	0.40	98.00	3.20	2.97	1.19	1.68	0 00:05:00
64	Sub-RD09	0.47	98.00	3.20	2.97	1.39	1.94	0 00:05:00
65	Sub-RD10	0.47	98.00	3.20	2.97	1.39	1.94	0 00:05:00
66	Sub-RD11	0.40	98.00	3.20	2.97	1.19	1.68	0 00:05:00
67	Sub-RD12	0.37	98.00	3.20	2.97	1.10	1.54	0 00:05:00
68	Sub-RD13	0.29	98.00	3.20	2.97	0.86	1.20	0 00:05:00
69	Sub-RD14	0.29	98.00	3.20	2.97	0.86	1.20	0 00:05:00
70	Sub-RD15	0.42	98.00	3.20	2.97	1.25	1.76	0 00:05:00
71	Sub-RD16	0.38	98.00	3.20	2.97	1.13	1.57	0 00:05:00
72	Sub-RD17	0.42	98.00	3.20	2.97	1.25	1.76	0 00:05:00
73	Sub-RD18	0.68	98.00	3.20	2.97	2.02	2.82	0 00:05:00
74	Sub-RD19	0.68	98.00	3.20	2.97	2.02	2.82	0 00:05:00
75	Sub-RD20	0.42	98.00	3.20	2.97	1.25	1.76	0 00:05:00
76	Sub-RD21	0.38	98.00	3.20	2.97	1.13	1.57	0 00:05:00
77	Sub-RD22	0.42	98.00	3.20	2.97	1.25	1.76	0 00:05:00
78	Sub-RD23	0.29	98.00	3.20	2.97	0.86	1.20	0 00:05:00
79	Sub-RD24	0.29	98.00	3.20	2.97	0.86	1.20	0 00:05:00
80	Sub-RD25	0.37	98.00	3.20	2.97	1.10	1.54	0 00:05:00
81	Sub-RD26	0.40	98.00	3.20	2.97	1.19	1.68	0 00:05:00
82	Sub-RD27	0.47	98.00	3.20	2.97	1.39	1.94	0 00:05:00

Subbasin Summary

SN	Subbasin ID	Area (ac)	Weighted Curve Number	Total Rainfall (in)	Total Runoff (in)	Total Runoff Volume (ac-in)	Peak Runoff (cfs)	Time of Concentration (days hh:mm:ss)
83	Sub-RD29	0.47	98.00	3.20	2.97	1.39	1.94	0 00:05:00
84	Sub-RD30	0.40	98.00	3.20	2.97	1.19	1.68	0 00:05:00
85	Sub-RD31	0.37	98.00	3.20	2.97	1.10	1.54	0 00:05:00
86	Sub-RD32	0.29	98.00	3.20	2.97	0.86	1.20	0 00:05:00
87	Sub-RD33	0.29	98.00	3.20	2.97	0.86	1.20	0 00:05:00
88	Sub-RD34	0.42	98.00	3.20	2.97	1.25	1.76	0 00:05:00
89	Sub-RD35	0.38	98.00	3.20	2.97	1.13	1.57	0 00:05:00
90	Sub-RD36	0.42	98.00	3.20	2.97	1.25	1.76	0 00:05:00
91	Sub-RD37	0.68	98.00	3.20	2.97	2.02	2.82	0 00:05:00

Node Summary

SN	Element ID	Element Type	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Initial Water Elevation (ft)	Surcharge Elevation (ft)	Ponded Area (ft²)	Peak Inflow (cfs)	Max HGL Elevation Attained (ft)	Max Surcharge Depth Attained (ft)	Min Freeboard Attained (ft)	Time of Peak Flooding Occurrence (days hh:mm)	Total Flooded Volume (ac-in)	Total Time Flooded (min)
1	(100)	Junction	776.42	772.06	776.42	772.06	0.00	5.57	777.79	0.00	0.13	0 00:00	0.00	0.00
2	(101)	Junction	777.17	772.54	777.17	772.54	0.00	3.30	778.26	0.00	0.16	0 00:00	0.00	0.00
3	(102)	Junction	777.94	773.05	777.94	773.05	0.00	1.56	778.72	0.00	0.22	0 00:00	0.00	0.00
4	(106)	Junction	775.82	771.46	775.82	771.46	0.00	4.09	776.95	0.00	0.37	0 00:00	0.00	0.00
5	(107)	Junction	776.57	771.94	776.57	771.94	0.00	2.37	777.46	0.00	0.36	0 00:00	0.00	0.00
6	(108)	Junction	777.34	772.44	777.34	772.44	0.00	1.19	778.00	0.00	0.34	0 00:00	0.00	0.00
7	(112)	Junction	776.20	771.84	776.20	771.84	0.00	5.09	777.50	0.00	0.20	0 00:00	0.00	0.00
8	(113)	Junction	776.95	772.32	776.95	772.32	0.00	3.58	778.12	0.00	0.08	0 00:00	0.00	0.00
9	(114)	Junction	777.72	772.82	777.72	772.82	0.00	1.93	778.62	0.00	0.10	0 00:00	0.00	0.00
10	(119)	Junction	774.40	770.04	774.40	770.04	0.00	5.57	775.77	0.00	0.13	0 00:00	0.00	0.00
11	(120)	Junction	775.15	770.52	775.15	770.52	0.00	3.30	776.24	0.00	0.16	0 00:00	0.00	0.00
12	(121)	Junction	775.92	771.03	775.92	771.03	0.00	1.56	776.70	0.00	0.22	0 00:00	0.00	0.00
13	(125)	Junction	774.41	770.05	774.41	770.05	0.00	4.09	775.54	0.00	0.37	0 00:00	0.00	0.00
14	(126)	Junction	775.16	770.53	775.16	770.53	0.00	2.37	776.05	0.00	0.36	0 00:00	0.00	0.00
15	(127)	Junction	775.93	771.04	775.93	771.04	0.00	1.19	776.59	0.00	0.34	0 00:00	0.00	0.00
16	(131)	Junction	774.44	770.08	774.44	770.08	0.00	5.08	775.74	0.00	0.20	0 00:00	0.00	0.00
17	(132)	Junction	775.19	770.56	775.19	770.56	0.00	3.58	776.36	0.00	0.08	0 00:00	0.00	0.00
18	(133)	Junction	775.96	771.07	775.96	771.07	0.00	1.93	776.86	0.00	0.10	0 00:00	0.00	0.00
19	(137)	Junction	775.70	771.35	775.70	771.35	0.00	5.57	777.07	0.00	0.13	0 00:00	0.00	0.00
20	(138)	Junction	776.45	771.82	776.45	771.82	0.00	3.30	777.54	0.00	0.16	0 00:00	0.00	0.00
21	(139)	Junction	777.22	772.33	777.22	772.33	0.00	1.56	778.00	0.00	0.22	0 00:00	0.00	0.00
22	(143)	Junction	776.16	771.80	776.16	771.80	0.00	4.09	777.29	0.00	0.37	0 00:00	0.00	0.00
23	(144)	Junction	776.90	772.28	776.90	772.28	0.00	2.37	777.79	0.00	0.37	0 00:00	0.00	0.00
24	(145)	Junction	777.68	772.78	777.68	772.78	0.00	1.19	778.34	0.00	0.34	0 00:00	0.00	0.00
25	(149)	Junction	776.63	772.28	776.63	772.28	0.00	5.08	777.93	0.00	0.20	0 00:00	0.00	0.00
26	(150)	Junction	777.38	772.75	777.38	772.75	0.00	3.58	778.55	0.00	0.08	0 00:00	0.00	0.00
27	(151)	Junction	778.15	773.26	778.15	773.26	0.00	1.93	779.05	0.00	0.10	0 00:00	0.00	0.00
28	(81)	Junction	774.27	770.95	774.27	770.95	0.00	5.34	775.62	0.00	1.15	0 00:00	0.00	0.00
29	(82)	Junction	775.04	770.41	775.04	770.41	0.00	3.79	776.24	0.00	0.05	0 00:00	0.00	0.00
30	(83)	Junction	775.79	770.90	775.79	770.90	0.00	2.05	776.71	0.00	0.08	0 00:00	0.00	0.00
31	(87)	Junction	774.77	770.41	774.77	770.41	0.00	3.99	775.88	0.00	0.39	0 00:00	0.00	0.00
32	(88)	Junction	775.51	770.89	775.51	770.89	0.00	2.27	776.38	0.00	0.39	0 00:00	0.00	0.00
33	(89)	Junction	776.29	771.39	776.29	771.39	0.00	1.09	776.91	0.00	0.38	0 00:00	0.00	0.00
34	(94)	Junction	775.25	770.90	775.25	770.90	0.00	5.08	776.54	0.00	0.21	0 00:00	0.00	0.00
35	(95)	Junction	776.00	771.37	776.00	771.37	0.00	3.58	777.17	0.00	0.08	0 00:00	0.00	0.00
36	(96)	Junction	776.77	771.88	776.77	771.88	0.00	1.93	777.67	0.00	0.10	0 00:00	0.00	0.00
37	D02	Junction	767.94	771.00	767.94	771.00	0.00	4.94	768.74	0.00	3.05	0 00:00	0.00	0.00
38	D04	Junction	768.63	774.75	768.63	774.75	0.00	32.95	771.47	0.00	5.24	0 00:00	0.00	0.00
39	D05	Junction	768.84	775.40	768.84	776.16	225.00	31.47	771.94	0.00	3.47	0 00:00	0.00	0.00
40	D06	Junction	769.06	775.67	769.06	776.16	225.00	30.75	772.40	0.00	3.27	0 00:00	0.00	0.00
41	D07	Junction	769.37	774.54	769.37	774.54	0.00	30.08	772.90	0.00	1.64	0 00:00	0.00	0.00
42	D08	Junction	769.94	771.96	769.94	772.62	1945.00	31.00	773.56	0.00	0.94	0 00:00	0.00	0.00
43	D09	Junction	770.21	772.06	770.21	772.06	0.00	25.68	773.83	0.00	1.17	0 00:00	0.00	0.00
44	D10	Junction	770.99	772.16	770.99	772.16	0.00	27.25	773.99	0.00	0.00	0 12:00	1.14	10.00
45	D11	Junction	771.26	772.26	771.26	772.82	1945.00	25.91	774.34	0.00	1.16	0 00:00	0.00	0.00
46	D12	Junction	771.54	772.36	771.54	772.36	0.00	20.53	774.54	0.00	0.00	0 12:02	0.05	6.00
47	D13	Junction	771.79	776.05	771.79	776.99	4500.00	19.77	774.99	0.00	1.05	0 00:00	0.00	0.00
48	D14	Junction	772.17	775.76	772.17	776.84	3586.00	19.29	775.51	0.00	3.13	0 00:00	0.00	0.00
49	D15	Junction	772.34	776.79	772.34	777.40	223.00	16.94	775.80	0.00	2.50	0 00:00	0.00	0.00
50	D16	Junction	772.52	777.10	772.52	777.63	205.00	15.98	776.05	0.00	1.05	0 00:00	0.00	0.00
51	D17	Junction	772.79	776.75	772.79	778.07	4335.00	16.94	776.35	0.00	0.65	0 00:00	0.00	0.00
52	D18	Junction	773.77	772.45	773.77	773.27	1575.00	13.33	776.52	0.25	0.00	0 12:01	0.12	9.00
53	D19	Junction	774.05	772.55	774.05	773.27	1575.00	9.40	776.59	0.54	0.00	0 11:59	0.25	15.00
54	D20	Junction	774.32	772.65	774.32	773.37	1575.00	11.06	776.66	0.34	0.00	0 12:00	0.16	14.00
55	D21	Junction	774.60	772.75	774.60	772.75	0.00	6.81	776.60	0.00	0.00	0 12:03	0.65	9.00
56	D22	Junction	775.71	776.22	775.71	776.22	0.00	2.92	776.73	0.00	0.48	0 00:00	0.00	0.00
57	D23	Junction	776.26	776.70	776.26	776.70	0.00	2.37	777.07	0.00	0.69	0 00:00	0.00	0.00
58	D24	Junction	777.89	776.12	777.89	776.12	0.00	2.18	778.84	0.00	0.05	0 00:00	0.00	0.00
59	D25	Junction	779.33	776.44	779.33	776.44	0.00	1.04	779.93	0.00	0.40	0 00:00	0.00	0.00
60	D27	Junction	768.65	773.41	768.65	774.80	2500.00	35.09	771.17	0.00	2.24	0 00:00	0.00	0.00
61	D28	Junction	768.72	773.41	768.72	774.80	2500.00	34.46	771.72	0.00	2.20	0 00:00	0.00	0.00
62	D29	Junction	769.20	772.38	769.20	774.80	100300.00	33.79	772.49	0.00	2.51	0 00:00	0.00	0.00
63	D30	Junction	769.47	772.62	769.47	773.17	4064.00	27.79	772.84	0.23	0.00	0 12:00	0.26	15.00
64	D31	Junction	769.75	772.72	769.75	773.27	4064.00	26.50	773.15	0.00	1.85	0 00:00	0.00	0.00
65	D32	Junction	770.02	772.82	770.02	773.37	4064.00	25.31	773.35	0.33	0.00	0 11:55	0.38	20.00
66	D33	Junction	770.30	772.92	770.30	773.47	4064.00	23.99	773.51	0.00	1.49	0 00:00	0.00	0.00
67	D34	Junction	770.57	773.02	770.57	773.02	0.00	21.75	773.57	0.00	0.00	0 12:02	1.61	15.00
68	D35	Junction	771.20	773.46	771.20	773.70	200.00	19.43	773.91	0.21	0.00	0 11:54	0.02	18.00
69	D36	Junction	771.41	776.28	771.41	776.49	212.00	18.22	774.26	0.00	2.02	0 00:00	0.00	0.00
70	D37	Junction	771.49	776.22	771.49	776.49	241.00	16.27	774.42	0.00	3.23	0 00:00	0.00	0.00
71	D38	Junction	771.85	772.65	771.85	776.47	131026.00	15.97	774.64	0.00	1.36	0 00:00	0.00	0.00
72	D39	Junction	772.14	772.79	772.14	772.79	0.00	16.27	774.64	0.00	0.00	0 12:01	2.24	18.00
73	D40	Junction	772.92	772.89	772.92	773.44	3310.00	14.29	775.34	0.00	1.16	0 00:00	0.00	0.00
74	D41	Junction	773.19	772.99	773.19	773.54	3089.00	11.66	775.59	0.40	0.00	0 11:57	0.35	19.00
75	D42	Junction	773.47	773.09	773.47	773.64	3516.00	9.90	775.75	0.00	1.25	0 00:00	0.00	0.00
76	D43	Junction	773.74	773.19	773.74	773.19	0.00	5.89	775.74	0.00	0.00	0 12:01	0.59	10.00
77	D44	Junction	773.88	773.55	773.88	773.55	0.00	4.12	775.79	0.00	0.09	0 00:00	0.00	0.00
78	D45	Junction	775.52	776.40	775.52	777.27	7643.00	1.28	776.20	0.00	0.32	0 00:00	0.00	0.00
79	D46	Junction	774.93	776.01	774.93	776.01	0.00	3.74	776.00	0.00	0.43	0 00:00	0.00	0.00
80	D47	Junction	775.70	775.90	775.70	775.90	0.00	2.89	776.61	0.00	0.59	0 00:00	0.00	0.00
81	D48	Junction	776.08	774.35	776.08	774.35	0.00	2.11	776.91	0.00	0.42	0 00:00	0.00	0.00

Node Summary

SN	Element ID	Element Type	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Initial Water Elevation (ft)	Surcharge Elevation (ft)	Ponded Area (ft²)	Peak Inflow (cfs)	Max HGL Elevation Attained (ft)	Max Surcharge Depth Attained (ft)	Min Freeboard Attained (ft)	Time of Peak Flooding Occurrence (days hh:mm)	Total Flooded Volume (ac-in)	Total Time Flooded (min)
82	D49	Junction	776.63	774.35	776.63	774.35	0.00	1.40	777.36	0.00	0.27	0 00:00	0.00	0.00
83	D50	Junction	776.82	776.38	776.82	776.38	0.00	0.80	777.38	0.00	0.44	0 00:00	0.00	0.00
84	D51	Junction	778.29	776.85	778.29	776.85	0.00	0.91	778.82	0.00	0.47	0 00:00	0.00	0.00
85	D52	Junction	778.47	776.52	778.47	776.52	0.00	0.67	778.86	0.00	0.61	0 00:00	0.00	0.00
86	D53	Junction	776.89	775.58	776.89	775.58	0.00	0.80	777.27	0.00	1.12	0 00:00	0.00	0.00
87	D54	Junction	777.35	775.40	777.35	775.40	0.00	1.12	777.97	0.00	0.38	0 00:00	0.00	0.00
88	D55	Junction	778.32	775.39	778.32	775.39	0.00	1.01	778.91	0.00	0.41	0 00:00	0.00	0.00
89	D56	Junction	775.84	775.74	775.84	775.80	1000.00	0.37	776.11	0.00	0.73	0 00:00	0.00	0.00
90	D58	Junction	770.00	767.01	770.00	767.01	0.00	2.53	771.00	0.00	0.00	0 11:59	0.00	0.00
91	D60	Junction	768.75	773.70	768.75	773.70	0.00	14.27	773.70	0.00	0.00	0 08:31	0.26	3.00
92	D61	Junction	768.90	773.70	768.90	773.72	0.00	21.86	773.72	0.02	0.00	0 06:58	0.06	1.00
93	RD01	Junction	775.84	770.95	775.84	770.95	0.00	2.82	776.84	0.00	0.00	0 12:00	0.06	9.00
94	RD02	Junction	775.34	770.45	775.34	770.45	0.00	1.76	776.33	0.00	0.01	0 00:00	0.00	0.00
95	RD03	Junction	775.82	770.93	775.82	770.93	0.00	1.57	776.61	0.00	0.21	0 00:00	0.00	0.00
96	RD04	Junction	775.32	770.42	775.32	770.42	0.00	1.76	776.16	0.00	0.16	0 00:00	0.00	0.00
97	RD05	Junction	775.82	770.92	775.82	770.92	0.00	1.20	776.48	0.00	0.34	0 00:00	0.00	0.00
98	RD06	Junction	776.34	771.44	776.34	771.44	0.00	1.09	776.99	0.00	0.35	0 00:00	0.00	0.00
99	RD07	Junction	775.80	770.91	775.80	770.91	0.00	1.54	776.63	0.00	0.17	0 00:00	0.00	0.00
100	RD08	Junction	776.30	771.41	776.30	771.41	0.00	1.68	777.25	0.00	0.05	0 00:00	0.00	0.00
101	RD09	Junction	776.82	771.93	776.82	771.93	0.00	1.94	777.79	0.00	0.03	0 00:00	0.00	0.00
102	RD10	Junction	776.01	771.12	776.01	771.12	0.00	1.94	776.98	0.00	0.03	0 00:00	0.00	0.00
103	RD11	Junction	775.49	770.60	775.49	770.60	0.00	1.68	776.44	0.00	0.05	0 00:00	0.00	0.00
104	RD12	Junction	774.99	770.10	774.99	770.10	0.00	1.54	775.82	0.00	0.17	0 00:00	0.00	0.00
105	RD13	Junction	775.98	771.09	775.98	771.09	0.00	1.20	776.67	0.00	0.31	0 00:00	0.00	0.00
106	RD14	Junction	775.46	770.56	775.46	770.56	0.00	1.20	776.14	0.00	0.32	0 00:00	0.00	0.00
107	RD15	Junction	774.96	770.07	774.96	770.07	0.00	1.76	775.80	0.00	0.16	0 00:00	0.00	0.00
108	RD16	Junction	775.97	771.08	775.97	771.08	0.00	1.57	776.80	0.00	0.17	0 00:00	0.00	0.00
109	RD17	Junction	775.45	770.55	775.45	770.55	0.00	1.76	776.35	0.00	0.10	0 00:00	0.00	0.00
110	RD18	Junction	774.95	770.06	774.95	770.06	0.00	2.82	775.95	0.00	0.00	0 12:00	0.03	7.00
111	RD19	Junction	776.97	772.08	776.97	772.08	0.00	2.82	777.97	0.00	0.00	0 12:00	0.03	7.00
112	RD20	Junction	777.47	772.57	777.47	772.57	0.00	1.76	778.37	0.00	0.10	0 00:00	0.00	0.00
113	RD21	Junction	777.99	773.10	777.99	773.10	0.00	1.57	778.82	0.00	0.17	0 00:00	0.00	0.00
114	RD22	Junction	776.37	771.47	776.37	771.47	0.00	1.76	777.21	0.00	0.16	0 00:00	0.00	0.00
115	RD23	Junction	776.87	771.97	776.87	771.97	0.00	1.20	777.55	0.00	0.32	0 00:00	0.00	0.00
116	RD24	Junction	777.39	772.49	777.39	772.49	0.00	1.20	778.08	0.00	0.31	0 00:00	0.00	0.00
117	RD25	Junction	776.75	771.85	776.75	771.85	0.00	1.54	777.59	0.00	0.16	0 00:00	0.00	0.00
118	RD26	Junction	777.25	772.35	777.25	772.35	0.00	1.68	778.20	0.00	0.05	0 00:00	0.00	0.00
119	RD27	Junction	777.77	772.87	777.77	772.87	0.00	1.94	778.74	0.00	0.03	0 00:00	0.00	0.00
120	RD29	Junction	778.20	773.31	778.20	773.31	0.00	1.94	779.17	0.00	0.03	0 00:00	0.00	0.00
121	RD30	Junction	777.68	772.79	777.68	772.79	0.00	1.68	778.63	0.00	0.05	0 00:00	0.00	0.00
122	RD31	Junction	777.18	772.29	777.18	772.29	0.00	1.54	778.01	0.00	0.17	0 00:00	0.00	0.00
123	RD32	Junction	777.73	772.83	777.73	772.83	0.00	1.20	778.42	0.00	0.31	0 00:00	0.00	0.00
124	RD33	Junction	777.21	772.31	777.21	772.31	0.00	1.20	777.88	0.00	0.33	0 00:00	0.00	0.00
125	RD34	Junction	776.71	771.81	776.71	771.81	0.00	1.76	777.55	0.00	0.16	0 00:00	0.00	0.00
126	RD35	Junction	777.27	772.38	777.27	772.38	0.00	1.57	778.10	0.00	0.17	0 00:00	0.00	0.00
127	RD36	Junction	776.75	771.86	776.75	771.86	0.00	1.76	777.65	0.00	0.10	0 00:00	0.00	0.00
128	RD37	Junction	773.25	771.36	773.25	771.36	0.00	2.82	777.25	0.00	0.00	0 12:00	0.03	7.00
129	D01	Outfall	764.40					4.94	764.40					
130	POND	Storage Node	768.00	772.00	768.00		100290.00	75.96	770.76				0.00	0.00

Link Summary

SN	Element ID	Element Type	From (Inlet) Node	To (Outlet) Node	Length (ft)	Inlet Invert Elevation (ft)	Outlet Invert Elevation (ft)	Average Slope (%)	Diameter or Height (in)	Manning's Roughness	Peak Flow (cfs)	Peak Flow Velocity (ft/sec)	Peak Flow Depth (ft)	Total Time Surcharged (min)
1	Link-01	Pipe	D60	POND	49.90	771.00	767.00	8.0200	12.000	0.0150	33.64	50.00	0.75	0.00
2	Link-02	Pipe	D61	D60	30.20	768.90	768.75	0.5000	12.000	0.0150	21.85	50.00	1.00	873.00
3	Link-03	Pipe	D02	D01	54.17	767.94	767.40	1.0000	24.000	0.0150	4.94	4.67	0.74	0.00
4	P(100)	Pipe	(113)	(112)	49.86	776.95	776.45	1.0000	15.000	0.0120	3.57	3.28	1.09	0.00
5	P(101)	Pipe	(114)	(113)	52.12	777.72	777.20	1.0000	12.000	0.0120	1.92	2.92	0.89	0.00
6	P(102)	Pipe	RD27	(114)	5.00	777.77	777.72	1.0000	12.000	0.0120	1.93	2.54	0.93	0.00
7	P(103)	Pipe	RD26	(113)	5.00	777.25	777.20	1.0000	12.000	0.0120	1.67	2.76	0.92	0.00
8	P(104)	Pipe	RD25	(112)	5.00	776.75	776.70	1.0000	12.000	0.0120	1.53	2.94	0.81	0.00
9	P(105)	Pipe	(119)	D29	90.03	774.40	773.50	1.0000	18.000	0.0120	5.55	4.18	1.05	0.00
10	P(106)	Pipe	(120)	(119)	49.86	775.15	774.65	1.0000	15.000	0.0120	3.28	3.06	1.10	0.00
11	P(107)	Pipe	(121)	(120)	52.12	775.92	775.40	1.0000	12.000	0.0120	1.55	2.74	0.81	0.00
12	P(108)	Pipe	RD16	(121)	5.00	775.97	775.92	1.0000	12.000	0.0120	1.56	2.31	0.80	0.00
13	P(109)	Pipe	RD17	(120)	5.00	775.45	775.40	1.0000	12.000	0.0120	1.75	2.85	0.87	0.00
14	P(110)	Pipe	RD18	(119)	5.00	774.95	774.90	1.0000	12.000	0.0120	2.29	3.16	0.93	0.00
15	P(111)	Pipe	(125)	D31	91.03	774.41	773.50	1.0000	18.000	0.0120	4.03	3.78	0.86	0.00
16	P(112)	Pipe	(126)	(125)	49.86	775.16	774.66	1.0000	15.000	0.0120	2.35	3.11	0.87	0.00
17	P(113)	Pipe	(127)	(126)	52.12	775.93	775.41	1.0000	12.000	0.0120	1.18	2.79	0.64	0.00
18	P(114)	Pipe	RD13	(127)	5.00	775.98	775.93	1.0000	12.000	0.0120	1.19	2.27	0.67	0.00
19	P(115)	Pipe	RD14	(126)	5.00	775.46	775.41	1.0000	12.000	0.0120	1.19	2.81	0.65	0.00
20	P(116)	Pipe	RD15	(125)	5.00	774.96	774.91	1.0000	12.000	0.0120	1.75	2.96	0.72	0.00
21	P(117)	Pipe	(131)	D33	94.06	774.44	773.50	1.0000	18.000	0.0120	5.01	4.01	0.98	0.00
22	P(118)	Pipe	(132)	(131)	49.86	775.19	774.69	1.0000	15.000	0.0120	3.57	3.28	1.08	0.00
23	P(119)	Pipe	(133)	(132)	52.12	775.96	775.44	1.0000	12.000	0.0120	1.92	2.92	0.89	0.00
24	P(120)	Pipe	RD10	(133)	5.00	776.01	775.96	1.0000	12.000	0.0120	1.93	2.54	0.93	0.00
25	P(121)	Pipe	RD11	(132)	5.00	775.49	775.44	1.0000	12.000	0.0120	1.67	2.76	0.92	0.00
26	P(122)	Pipe	RD12	(131)	5.00	774.99	774.94	1.0000	12.000	0.0120	1.53	2.94	0.79	0.00
27	P(123)	Pipe	(137)	D38	120.37	775.70	774.50	1.0000	18.000	0.0120	5.55	4.17	1.05	0.00
28	P(124)	Pipe	(138)	(137)	49.86	776.45	775.95	1.0000	15.000	0.0120	3.28	3.07	1.10	0.00
29	P(125)	Pipe	(139)	(138)	52.12	777.22	776.70	1.0000	12.000	0.0120	1.55	2.74	0.81	0.00
30	P(126)	Pipe	RD35	(139)	5.00	777.27	777.22	1.0000	12.000	0.0120	1.56	2.31	0.80	0.00
31	P(127)	Pipe	RD36	(138)	5.00	776.75	776.70	1.0000	12.000	0.0120	1.75	2.85	0.87	0.00
32	P(128)	Pipe	RD37	(137)	5.00	776.25	776.20	1.0000	12.000	0.0120	2.29	3.16	0.93	0.00
33	P(129)	Pipe	(143)	D40	115.56	776.16	775.00	1.0000	18.000	0.0120	4.02	3.78	0.85	0.00
34	P(130)	Pipe	(144)	(143)	49.86	776.90	776.41	0.9800	15.000	0.0120	2.35	3.11	0.86	0.00
35	P(131)	Pipe	(145)	(144)	52.12	777.68	777.16	1.0000	12.000	0.0120	1.18	2.81	0.64	0.00
36	P(132)	Pipe	RD32	(145)	5.00	777.73	777.68	1.0000	12.000	0.0120	1.19	2.27	0.67	0.00
37	P(133)	Pipe	RD33	(144)	5.03	777.21	777.16	0.9900	12.000	0.0120	1.19	2.81	0.64	0.00
38	P(134)	Pipe	RD34	(143)	5.00	776.71	776.66	1.0000	12.000	0.0120	1.75	2.97	0.72	0.00
39	P(135)	Pipe	(149)	D42	113.42	776.63	775.50	1.0000	18.000	0.0120	4.99	4.01	0.97	0.00
40	P(136)	Pipe	(150)	(149)	49.86	777.38	776.88	1.0000	15.000	0.0120	3.57	3.28	1.08	0.00
41	P(137)	Pipe	(151)	(150)	52.12	778.15	777.63	1.0000	12.000	0.0120	1.92	2.92	0.89	0.00
42	P(138)	Pipe	RD29	(151)	5.00	778.20	778.15	1.0000	12.000	0.0120	1.93	2.54	0.93	0.00
43	P(139)	Pipe	RD30	(150)	5.00	777.68	777.63	1.0000	12.000	0.0120	1.67	2.76	0.92	0.00
44	P(140)	Pipe	RD31	(149)	5.00	777.18	777.13	1.0000	12.000	0.0120	1.53	2.94	0.79	0.00
45	P(15)	Pipe	D58	POND	58.56	770.00	768.50	2.5600	12.000	0.0120	2.51	3.20	1.00	2.00
46	P(16)	Pipe	D07	D06	123.16	769.37	769.06	0.2500	36.000	0.0120	30.07	4.25	3.00	14.00
47	P(16) (1)	Pipe	D08	D07	226.84	769.94	769.37	0.2500	36.000	0.0120	30.08	4.26	3.00	15.00
48	P(17)	Pipe	D09	D08	110.00	770.21	769.94	0.2500	36.000	0.0120	25.62	3.62	3.00	14.00
49	P(18)	Pipe	D10	D09	110.00	770.99	770.21	0.7100	36.000	0.0120	22.84	3.44	3.00	10.00
50	P(19)	Pipe	D11	D10	110.00	771.26	770.99	0.2500	36.000	0.0120	25.90	3.70	3.00	9.00
51	P(20)	Pipe	D12	D11	110.00	771.54	771.26	0.2500	36.000	0.0120	20.25	3.25	3.00	6.00
52	P(23)	Pipe	D18	D17	192.59	773.77	773.29	0.2500	30.000	0.0120	13.14	3.78	2.50	9.00
53	P(24)	Pipe	D19	D18	110.00	774.05	773.77	0.2500	24.000	0.0120	10.94	3.50	2.00	14.00
54	P(25)	Pipe	D20	D19	110.00	774.32	774.05	0.2500	24.000	0.0120	8.13	2.82	2.00	14.00
55	P(26)	Pipe	D21	D20	110.00	774.60	774.32	0.2500	24.000	0.0120	4.93	1.64	2.00	9.00
56	P(27)	Pipe	D22	D21	121.80	775.71	775.10	0.5000	18.000	0.0120	3.05	2.89	1.23	0.00
57	P(28)	Pipe	D23	D22	110.16	776.26	775.71	0.5000	18.000	0.0120	2.36	2.46	0.85	0.00
58	P(29)	Pipe	D24	D23	113.60	777.89	776.76	0.9900	12.000	0.0120	2.14	3.43	0.72	0.00
59	P(30)	Pipe	D25	D24	144.00	779.33	777.89	1.0000	12.000	0.0120	1.02	1.66	0.76	0.00
60	P(31)	Pipe	D27	POND	58.17	768.65	768.50	0.2600	48.000	0.0120	35.09	5.12	2.19	0.00
61	P(32)	Pipe	D28	D27	30.00	768.72	768.65	0.2300	36.000	0.0120	34.46	5.06	2.76	0.00
62	P(33)	Pipe	D29	D28	191.79	769.20	768.72	0.2500	36.000	0.0120	33.73	4.77	3.00	2.00
63	P(34)	Pipe	D30	D29	110.00	769.47	769.20	0.2500	36.000	0.0120	28.56	4.04	3.00	16.00
64	P(35)	Pipe	D31	D30	110.00	769.75	769.47	0.2500	36.000	0.0120	26.69	3.80	3.00	19.00
65	P(36)	Pipe	D32	D31	110.00	770.02	769.75	0.2500	36.000	0.0120	25.20	3.57	3.00	19.00
66	P(37)	Pipe	D33	D32	110.00	770.30	770.02	0.2500	36.000	0.0120	23.84	3.37	3.00	18.00
67	P(38)	Pipe	D34	D33	110.00	770.57	770.30	0.2500	36.000	0.0120	19.32	2.84	3.00	15.00
68	P(39)	Pipe	D35	D34	50.09	771.20	771.07	0.2600	30.000	0.0120	19.45	4.04	2.50	15.00
69	P(39) (1)	Pipe	D36	D35	84.79	771.41	771.20	0.2500	30.000	0.0120	18.03	3.67	2.50	18.00
70	P(40)	Pipe	D37	D36	30.63	771.49	771.41	0.2600	30.000	0.0120	15.81	3.22	2.50	19.00
71	P(41)	Pipe	D38	D37	145.53	771.85	771.49	0.2500	30.000	0.0120	15.40	3.14	2.50	19.00
72	P(42)	Pipe	D39	D38	115.67	772.14	771.85	0.2500	30.000	0.0120	11.55	2.36	2.50	18.00
73	P(43)	Pipe	D40	D39	110.00	772.92	772.64	0.2500	24.000	0.0120	14.29	4.55	2.00	18.00
74	P(44)	Pipe	D41	D40	110.00	773.19	772.92	0.2500	24.000	0.0120	9.65	3.07	2.00	18.00
75	P(45)	Pipe	D42	D41	110.00	773.47	773.19	0.2500	24.000	0.0120	9.83	3.13	2.00	15.00
76	P(46)	Pipe	D43	D42	110.00	773.74	773.47	0.2500	24.000	0.0120	4.23	1.76	2.00	10.00
77	P(47)	Pipe	D44	D43	55.00	773.88	773.74	0.2500	24.000	0.0120	4.12	1.59	1.95	0.00
78	P(48)	Pipe	D45	D44	255.74	775.52	774.88	0.2500	12.000	0.0120	1.24	2.33	0.79	0.00
79	P(49)	Pipe	D13	D12	100.80	771.79	771.54	0.2500	30.000	0.0120	19.77	4.03	2.50	13.00
80	P(50)	Pipe	D14	D13	152.05	772.17	771.79	0.2500	30.000	0.0120	19.16	3.90	2.50	14.00
81	P(51)	Pipe	D53	D14	108.00	776.89	775.81	1.0000	18.000	0.0120	0.79	2.83	0.32	0.00

Link Summary

SN	Element ID	Element Type	From (Inlet) Node	To (Outlet) Node	Length	Inlet Invert Elevation	Outlet Invert Elevation	Average Slope	Diameter or Height	Manning's Roughness	Peak Flow	Peak Flow Velocity	Peak Flow Depth	Total Time Surcharged
					(ft)	(ft)	(ft)	(%)	(in)		(cfs)	(ft/sec)	(ft)	(min)
82	P(53)	Pipe	D16	D15	70.60	772.52	772.34	0.2500	30.000	0.0120	15.98	3.25	2.50	15.00
83	P(54)	Pipe	D52	D15	117.00	778.47	777.30	1.0000	12.000	0.0120	0.65	2.85	0.33	0.00
84	P(55)	Pipe	D51	D37	163.40	778.29	776.65	1.0000	12.000	0.0120	0.88	2.94	0.41	0.00
85	P(56)	Pipe	D46	D36	161.45	774.93	773.31	1.0000	18.000	0.0120	3.69	3.50	0.99	0.00
86	P(57)	Pipe	D47	D46	76.76	775.70	774.93	1.0000	18.000	0.0120	2.88	2.50	0.97	0.00
87	P(58)	Pipe	D48	D47	13.14	776.08	775.95	0.9900	15.000	0.0120	2.10	3.27	0.74	0.00
88	P(59)	Pipe	D49	D48	29.92	776.63	776.33	1.0000	12.000	0.0120	1.39	2.94	0.65	0.00
89	P(60)	Pipe	D50	D49	13.28	776.82	776.63	1.4300	12.000	0.0120	0.79	1.66	0.64	0.00
90	P(61)	Pipe	D04	POND	52.97	768.63	768.50	0.2500	36.000	0.0120	32.95	5.55	2.35	0.00
91	P(62)	Pipe	D05	D04	82.14	768.83	768.63	0.2400	36.000	0.0120	31.55	4.50	2.92	0.00
92	P(63)	Pipe	D06	D05	90.00	769.05	768.83	0.2400	36.000	0.0120	30.77	4.35	3.00	10.00
93	P(64)	Pipe	D17	D16	108.60	772.79	772.52	0.2500	30.000	0.0120	15.84	3.23	2.50	16.00
94	P(65)	Pipe	D55	D14	67.82	778.32	777.64	1.0000	12.000	0.0120	0.99	2.94	0.46	0.00
95	P(66)	Pipe	D54	D04	82.14	777.35	775.71	2.0000	12.000	0.0120	1.09	3.28	0.46	0.00
96	P(67)	Pipe	D56	D28	46.08	773.84	772.92	2.0000	12.000	0.0120	0.37	3.20	0.20	0.00
97	P(68)	Pipe	D15	D14	69.52	772.34	772.17	0.2400	30.000	0.0120	16.95	3.45	2.50	14.00
98	P(69)	Pipe	(81)	D08	127.13	774.27	773.00	1.0000	18.000	0.0120	5.27	4.10	1.02	0.00
99	P(70)	Pipe	(82)	(81)	52.12	775.04	774.52	1.0000	15.000	0.0120	3.78	3.28	1.13	0.00
100	P(71)	Pipe	(83)	(82)	49.86	775.79	775.29	1.0000	12.000	0.0120	2.04	2.94	0.93	0.00
101	P(72)	Pipe	RD01	(83)	5.00	775.84	775.79	1.0000	12.000	0.0120	2.05	2.65	0.96	0.00
102	P(73)	Pipe	RD02	(82)	5.00	775.34	775.29	1.0000	12.000	0.0120	1.75	2.63	0.96	0.00
103	P(74)	Pipe	RD03	(81)	5.00	775.82	775.77	1.0000	12.000	0.0120	1.56	3.09	0.61	0.00
104	P(75)	Pipe	(87)	D09	126.56	774.77	773.50	1.0000	18.000	0.0120	3.91	3.75	0.83	0.00
105	P(76)	Pipe	(88)	(87)	49.86	775.51	775.02	0.9800	15.000	0.0120	2.25	3.09	0.84	0.00
106	P(77)	Pipe	(89)	(88)	52.12	776.29	775.77	1.0000	12.000	0.0120	1.08	2.76	0.61	0.00
107	P(78)	Pipe	RD06	(89)	5.00	776.34	776.29	1.0000	12.000	0.0120	1.09	2.28	0.63	0.00
108	P(79)	Pipe	RD05	(88)	5.00	775.82	775.77	1.0000	12.000	0.0120	1.19	2.85	0.63	0.00
109	P(80)	Pipe	RD04	(87)	5.00	775.32	775.27	1.0000	12.000	0.0120	1.75	3.01	0.71	0.00
110	P(81)	Pipe	(94)	D11	125.15	775.25	774.00	1.0000	18.000	0.0120	4.99	4.01	0.97	0.00
111	P(82)	Pipe	(95)	(94)	49.86	776.00	775.50	1.0000	15.000	0.0120	3.57	3.28	1.08	0.00
112	P(83)	Pipe	(96)	(95)	52.12	776.77	776.25	1.0000	12.000	0.0120	1.92	2.92	0.89	0.00
113	P(84)	Pipe	RD09	(96)	5.00	776.82	776.77	1.0000	12.000	0.0120	1.93	2.54	0.93	0.00
114	P(85)	Pipe	RD08	(95)	5.00	776.30	776.25	1.0000	12.000	0.0120	1.67	2.76	0.92	0.00
115	P(86)	Pipe	RD07	(94)	5.00	775.80	775.75	1.0000	12.000	0.0120	1.53	2.94	0.79	0.00
116	P(87)	Pipe	(100)	D17	92.04	776.42	775.50	1.0000	18.000	0.0120	5.55	4.18	1.06	0.00
117	P(88)	Pipe	(101)	(100)	49.86	777.17	776.67	1.0000	15.000	0.0120	3.28	3.06	1.10	0.00
118	P(89)	Pipe	(102)	(101)	52.12	777.94	777.42	1.0000	12.000	0.0120	1.55	2.74	0.81	0.00
119	P(90)	Pipe	RD21	(102)	5.00	777.99	777.94	1.0000	12.000	0.0120	1.56	2.31	0.80	0.00
120	P(91)	Pipe	RD20	(101)	5.00	777.47	777.42	1.0000	12.000	0.0120	1.75	2.85	0.87	0.00
121	P(92)	Pipe	RD19	(100)	5.00	776.97	776.92	1.0000	12.000	0.0120	2.29	3.16	0.93	0.00
122	P(93)	Pipe	(106)	D18	154.50	775.82	774.27	1.0000	18.000	0.0120	4.05	3.06	1.31	0.00
123	P(94)	Pipe	(107)	(106)	49.86	776.57	776.07	1.0000	15.000	0.0120	2.35	3.11	0.87	0.00
124	P(95)	Pipe	(108)	(107)	52.12	777.34	776.82	1.0000	12.000	0.0120	1.18	2.79	0.64	0.00
125	P(96)	Pipe	RD24	(108)	5.00	777.39	777.34	1.0000	12.000	0.0120	1.19	2.27	0.67	0.00
126	P(97)	Pipe	RD23	(107)	5.00	776.87	776.82	1.0000	12.000	0.0120	1.19	2.81	0.65	0.00
127	P(98)	Pipe	RD22	(106)	5.00	776.37	776.32	1.0000	12.000	0.0120	1.75	2.95	0.72	0.00
128	P(99)	Pipe	(112)	D20	137.40	776.20	774.82	1.0000	18.000	0.0120	5.09	3.47	1.39	0.00
129	Orifice-WQv	Orifice	POND	D02		768.00	767.94		6.100		1.47			
130	Weir-RIM	Weir	POND	D02		768.00	767.94				3.51			
131	Weir-Spillway	Weir	POND	D02		768.00	767.94				0.00			

Junction Input

SN	Element ID	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Surcharge Elevation (ft)	Surcharge Depth (ft)	Ponded Area (ft²)	Minimum Pipe Cover (in)
1	(100)	776.42	772.06	-4.36	772.06	0.00	0.00	0.00
2	(101)	777.17	772.54	-4.63	772.54	0.00	0.00	0.00
3	(102)	777.94	773.05	-4.89	773.05	0.00	0.00	0.00
4	(106)	775.82	771.46	-4.36	771.46	0.00	0.00	0.00
5	(107)	776.57	771.94	-4.63	771.94	0.00	0.00	0.00
6	(108)	777.34	772.44	-4.90	772.44	0.00	0.00	0.00
7	(112)	776.20	771.84	-4.36	771.84	0.00	0.00	0.00
8	(113)	776.95	772.32	-4.63	772.32	0.00	0.00	0.00
9	(114)	777.72	772.82	-4.90	772.82	0.00	0.00	0.00
10	(119)	774.40	770.04	-4.36	770.04	0.00	0.00	0.00
11	(120)	775.15	770.52	-4.63	770.52	0.00	0.00	0.00
12	(121)	775.92	771.03	-4.89	771.03	0.00	0.00	0.00
13	(125)	774.41	770.05	-4.36	770.05	0.00	0.00	0.00
14	(126)	775.16	770.53	-4.63	770.53	0.00	0.00	0.00
15	(127)	775.93	771.04	-4.89	771.04	0.00	0.00	0.00
16	(131)	774.44	770.08	-4.36	770.08	0.00	0.00	0.00
17	(132)	775.19	770.56	-4.63	770.56	0.00	0.00	0.00
18	(133)	775.96	771.07	-4.89	771.07	0.00	0.00	0.00
19	(137)	775.70	771.35	-4.35	771.35	0.00	0.00	0.00
20	(138)	776.45	771.82	-4.63	771.82	0.00	0.00	0.00
21	(139)	777.22	772.33	-4.89	772.33	0.00	0.00	0.00
22	(143)	776.16	771.80	-4.36	771.80	0.00	0.00	0.00
23	(144)	776.90	772.28	-4.62	772.28	0.00	0.00	0.00
24	(145)	777.68	772.78	-4.90	772.78	0.00	0.00	0.00
25	(149)	776.63	772.28	-4.35	772.28	0.00	0.00	0.00
26	(150)	777.38	772.75	-4.63	772.75	0.00	0.00	0.00
27	(151)	778.15	773.26	-4.89	773.26	0.00	0.00	0.00
28	(81)	774.27	770.95	-3.32	770.95	0.00	0.00	0.00
29	(82)	775.04	770.41	-4.63	770.41	0.00	0.00	0.00
30	(83)	775.79	770.90	-4.89	770.90	0.00	0.00	0.00
31	(87)	774.77	770.41	-4.36	770.41	0.00	0.00	0.00
32	(88)	775.51	770.89	-4.62	770.89	0.00	0.00	0.00
33	(89)	776.29	771.39	-4.90	771.39	0.00	0.00	0.00
34	(94)	775.25	770.90	-4.35	770.90	0.00	0.00	0.00
35	(95)	776.00	771.37	-4.63	771.37	0.00	0.00	0.00
36	(96)	776.77	771.88	-4.89	771.88	0.00	0.00	0.00
37	D02	767.94	771.00	3.06	771.00	0.00	0.00	0.00
38	D04	768.63	774.75	6.12	774.75	0.00	0.00	0.00
39	D05	768.84	775.40	6.56	776.16	0.76	225.00	42.89
40	D06	769.06	775.67	6.61	776.16	0.49	225.00	43.37
41	D07	769.37	774.54	5.17	774.54	0.00	0.00	26.01
42	D08	769.94	771.96	2.02	772.62	0.66	1945.00	0.00
43	D09	770.21	772.06	1.85	772.06	0.00	0.00	0.00
44	D10	770.99	772.16	1.17	772.16	0.00	0.00	0.00
45	D11	771.26	772.26	1.00	772.82	0.56	1945.00	0.00
46	D12	771.54	772.36	0.82	772.36	0.00	0.00	0.00
47	D13	771.79	776.05	4.26	776.99	0.95	4500.00	21.06
48	D14	772.17	775.76	3.59	776.84	1.08	3586.00	0.00
49	D15	772.34	776.79	4.45	777.40	0.61	223.00	0.00
50	D16	772.52	777.10	4.58	777.63	0.53	205.00	25.01
51	D17	772.79	776.75	3.96	778.07	1.32	4335.00	0.00
52	D18	773.77	772.45	-1.32	773.27	0.82	1575.00	0.00
53	D19	774.05	772.55	-1.50	773.27	0.72	1575.00	0.00
54	D20	774.32	772.65	-1.67	773.37	0.72	1575.00	0.00
55	D21	774.60	772.75	-1.85	772.75	0.00	0.00	0.00
56	D22	775.71	776.22	0.51	776.22	0.00	0.00	0.00
57	D23	776.26	776.70	0.44	776.70	0.00	0.00	0.00
58	D24	777.89	776.12	-1.77	776.12	0.00	0.00	0.00
59	D25	779.33	776.44	-2.89	776.44	0.00	0.00	0.00
60	D27	768.65	773.41	4.76	774.80	1.39	2500.00	9.12
61	D28	768.72	773.41	4.69	774.80	1.39	2500.00	0.00
62	D29	769.20	772.38	3.18	774.80	2.42	100300.00	0.00
63	D30	769.47	772.62	3.15	773.17	0.55	4064.00	1.76
64	D31	769.75	772.72	2.97	773.27	0.55	4064.00	0.00
65	D32	770.02	772.82	2.80	773.37	0.55	4064.00	0.00
66	D33	770.30	772.92	2.62	773.47	0.55	4064.00	0.00
67	D34	770.57	773.02	2.45	773.02	0.00	0.00	0.00
68	D35	771.20	773.46	2.26	773.70	0.24	200.00	0.00
69	D36	771.41	776.28	4.87	776.49	0.21	212.00	17.64
70	D37	771.49	776.22	4.73	776.49	0.27	241.00	0.00
71	D38	771.85	772.65	0.80	776.47	3.82	131026.00	0.00
72	D39	772.14	772.79	0.65	772.79	0.00	0.00	0.00
73	D40	772.92	772.89	-0.03	773.44	0.55	3310.00	0.00
74	D41	773.19	772.99	-0.20	773.54	0.55	3089.00	0.00
75	D42	773.47	773.09	-0.38	773.64	0.55	3516.00	0.00
76	D43	773.74	773.19	-0.55	773.19	0.00	0.00	0.00
77	D44	773.88	773.55	-0.33	773.55	0.00	0.00	0.00
78	D45	775.52	776.40	0.88	777.27	0.87	7643.00	0.00
79	D46	774.93	776.01	1.08	776.01	0.00	0.00	0.00
80	D47	775.70	775.90	0.20	775.90	0.00	0.00	0.00
81	D48	776.08	774.35	-1.73	774.35	0.00	0.00	0.00
82	D49	776.63	774.35	-2.28	774.35	0.00	0.00	0.00

Junction Input

SN	Element ID	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Surcharge Elevation (ft)	Surcharge Depth (ft)	Ponded Area (ft²)	Minimum Pipe Cover (in)
83	D50	776.82	776.38	-0.44	776.38	0.00	0.00	0.00
84	D51	778.29	776.85	-1.44	776.85	0.00	0.00	0.00
85	D52	778.47	776.52	-1.96	776.52	0.00	0.00	0.00
86	D53	776.89	775.58	-1.31	775.58	0.00	0.00	0.00
87	D54	777.35	775.40	-1.95	775.40	0.00	0.00	0.00
88	D55	778.32	775.39	-2.93	775.39	0.00	0.00	0.00
89	D56	775.84	775.74	-0.10	775.80	0.06	1000.00	10.76
90	D58	770.00	767.01	-2.99	767.01	0.00	0.00	0.00
91	D60	768.75	773.70	4.95	773.70	0.00	0.00	20.40
92	D61	768.90	773.70	4.80	773.72	0.02	0.00	45.60
93	RD01	775.84	770.95	-4.89	770.95	0.00	0.00	0.00
94	RD02	775.34	770.45	-4.89	770.45	0.00	0.00	0.00
95	RD03	775.82	770.93	-4.89	770.93	0.00	0.00	0.00
96	RD04	775.32	770.42	-4.90	770.42	0.00	0.00	0.00
97	RD05	775.82	770.92	-4.90	770.92	0.00	0.00	0.00
98	RD06	776.34	771.44	-4.90	771.44	0.00	0.00	0.00
99	RD07	775.80	770.91	-4.89	770.91	0.00	0.00	0.00
100	RD08	776.30	771.41	-4.89	771.41	0.00	0.00	0.00
101	RD09	776.82	771.93	-4.89	771.93	0.00	0.00	0.00
102	RD10	776.01	771.12	-4.89	771.12	0.00	0.00	0.00
103	RD11	775.49	770.60	-4.90	770.60	0.00	0.00	0.00
104	RD12	774.99	770.10	-4.89	770.10	0.00	0.00	0.00
105	RD13	775.98	771.09	-4.90	771.09	0.00	0.00	0.00
106	RD14	775.46	770.56	-4.90	770.56	0.00	0.00	0.00
107	RD15	774.96	770.07	-4.90	770.07	0.00	0.00	0.00
108	RD16	775.97	771.08	-4.90	771.08	0.00	0.00	0.00
109	RD17	775.45	770.55	-4.90	770.55	0.00	0.00	0.00
110	RD18	774.95	770.06	-4.90	770.06	0.00	0.00	0.00
111	RD19	776.97	772.08	-4.90	772.08	0.00	0.00	0.00
112	RD20	777.47	772.57	-4.90	772.57	0.00	0.00	0.00
113	RD21	777.99	773.10	-4.90	773.10	0.00	0.00	0.00
114	RD22	776.37	771.47	-4.90	771.47	0.00	0.00	0.00
115	RD23	776.87	771.97	-4.90	771.97	0.00	0.00	0.00
116	RD24	777.39	772.49	-4.90	772.49	0.00	0.00	0.00
117	RD25	776.75	771.85	-4.90	771.85	0.00	0.00	0.00
118	RD26	777.25	772.35	-4.90	772.35	0.00	0.00	0.00
119	RD27	777.77	772.87	-4.90	772.87	0.00	0.00	0.00
120	RD29	778.20	773.31	-4.89	773.31	0.00	0.00	0.00
121	RD30	777.68	772.79	-4.89	772.79	0.00	0.00	0.00
122	RD31	777.18	772.29	-4.89	772.29	0.00	0.00	0.00
123	RD32	777.73	772.83	-4.90	772.83	0.00	0.00	0.00
124	RD33	777.21	772.31	-4.90	772.31	0.00	0.00	0.00
125	RD34	776.71	771.81	-4.90	771.81	0.00	0.00	0.00
126	RD35	777.27	772.38	-4.89	772.38	0.00	0.00	0.00
127	RD36	776.75	771.86	-4.89	771.86	0.00	0.00	0.00
128	RD37	773.25	771.36	-1.89	771.36	0.00	0.00	0.00

Junction Results

SN	Element ID	Peak Inflow (cfs)	Peak Lateral Inflow (cfs)	Max HGL Elevation Attained (ft)	Max HGL Depth Attained (ft)	Max Surcharge Depth Attained (ft)	Min Freeboard Attained (ft)	Average HGL Elevation Attained (ft)	Average HGL Depth Attained (ft)	Time of Max HGL Occurrence (days hh:mm)	Time of Peak Flooding Occurrence (days hh:mm)	Total Flooded Volume (ac-in)	Total Time Flooded (min)
1	(100)	5.57	0.00	777.79	1.37	0.00	0.13	776.80	0.38	0 12:00	0 00:00	0.00	0.00
2	(101)	3.30	0.00	778.26	1.09	0.00	0.16	777.46	0.29	0 12:00	0 00:00	0.00	0.00
3	(102)	1.56	0.00	778.72	0.78	0.00	0.22	778.15	0.21	0 12:00	0 00:00	0.00	0.00
4	(106)	4.09	0.00	776.95	1.13	0.00	0.37	776.13	0.31	0 12:00	0 00:00	0.00	0.00
5	(107)	2.37	0.00	777.46	0.89	0.00	0.36	776.81	0.24	0 12:00	0 00:00	0.00	0.00
6	(108)	1.19	0.00	778.00	0.66	0.00	0.34	777.52	0.18	0 12:00	0 00:00	0.00	0.00
7	(112)	5.09	0.00	777.50	1.30	0.00	0.20	776.55	0.35	0 12:00	0 00:00	0.00	0.00
8	(113)	3.58	0.00	778.12	1.17	0.00	0.08	777.25	0.30	0 12:00	0 00:00	0.00	0.00
9	(114)	1.93	0.00	778.62	0.90	0.00	0.10	777.95	0.23	0 12:00	0 00:00	0.00	0.00
10	(119)	5.57	0.00	775.77	1.37	0.00	0.13	774.78	0.38	0 12:00	0 00:00	0.00	0.00
11	(120)	3.30	0.00	776.24	1.09	0.00	0.16	775.44	0.29	0 12:00	0 00:00	0.00	0.00
12	(121)	1.56	0.00	776.70	0.78	0.00	0.22	776.13	0.21	0 12:00	0 00:00	0.00	0.00
13	(125)	4.09	0.00	775.54	1.13	0.00	0.37	774.72	0.31	0 12:00	0 00:00	0.00	0.00
14	(126)	2.37	0.00	776.05	0.89	0.00	0.36	775.40	0.24	0 12:00	0 00:00	0.00	0.00
15	(127)	1.19	0.00	776.59	0.66	0.00	0.34	776.11	0.18	0 12:00	0 00:00	0.00	0.00
16	(131)	5.08	0.00	775.74	1.30	0.00	0.20	774.79	0.35	0 12:00	0 00:00	0.00	0.00
17	(132)	3.58	0.00	776.36	1.17	0.00	0.08	775.49	0.30	0 12:00	0 00:00	0.00	0.00
18	(133)	1.93	0.00	776.86	0.90	0.00	0.10	776.19	0.23	0 12:00	0 00:00	0.00	0.00
19	(137)	5.57	0.00	777.07	1.37	0.00	0.13	776.08	0.38	0 12:00	0 00:00	0.00	0.00
20	(138)	3.30	0.00	777.54	1.09	0.00	0.16	776.74	0.29	0 12:00	0 00:00	0.00	0.00
21	(139)	1.56	0.00	778.00	0.78	0.00	0.22	777.43	0.21	0 12:00	0 00:00	0.00	0.00
22	(143)	4.09	0.00	777.29	1.13	0.00	0.37	776.47	0.31	0 12:00	0 00:00	0.00	0.00
23	(144)	2.37	0.00	777.79	0.89	0.00	0.37	777.14	0.24	0 12:00	0 00:00	0.00	0.00
24	(145)	1.19	0.00	778.34	0.66	0.00	0.34	777.86	0.18	0 12:00	0 00:00	0.00	0.00
25	(149)	5.08	0.00	777.93	1.30	0.00	0.20	776.98	0.35	0 12:00	0 00:00	0.00	0.00
26	(150)	3.58	0.00	778.55	1.17	0.00	0.08	777.68	0.30	0 12:00	0 00:00	0.00	0.00
27	(151)	1.93	0.00	779.05	0.90	0.00	0.10	778.38	0.23	0 12:00	0 00:00	0.00	0.00
28	(81)	5.34	0.00	775.62	1.35	0.00	1.15	774.65	0.38	0 12:00	0 00:00	0.00	0.00
29	(82)	3.79	0.00	776.24	1.20	0.00	0.05	775.38	0.34	0 12:00	0 00:00	0.00	0.00
30	(83)	2.05	0.00	776.71	0.92	0.00	0.08	776.07	0.28	0 11:56	0 00:00	0.00	0.00
31	(87)	3.99	0.00	775.88	1.11	0.00	0.39	775.07	0.30	0 12:01	0 00:00	0.00	0.00
32	(88)	2.27	0.00	776.38	0.87	0.00	0.39	775.75	0.24	0 12:00	0 00:00	0.00	0.00
33	(89)	1.09	0.00	776.91	0.62	0.00	0.38	776.46	0.17	0 12:00	0 00:00	0.00	0.00
34	(94)	5.08	0.00	776.54	1.29	0.00	0.21	775.60	0.35	0 12:00	0 00:00	0.00	0.00
35	(95)	3.58	0.00	777.17	1.17	0.00	0.08	776.30	0.30	0 12:00	0 00:00	0.00	0.00
36	(96)	1.93	0.00	777.67	0.90	0.00	0.10	777.00	0.23	0 12:00	0 00:00	0.00	0.00
37	D02	4.94	0.00	768.74	0.80	0.00	3.05	768.40	0.46	0 13:46	0 00:00	0.00	0.00
38	D04	32.95	0.43	771.47	2.84	0.00	5.24	770.36	1.73	0 12:00	0 00:00	0.00	0.00
39	D05	31.47	0.75	771.94	3.10	0.00	3.47	770.49	1.65	0 11:58	0 00:00	0.00	0.00
40	D06	30.75	0.72	772.40	3.34	0.00	3.27	770.62	1.56	0 11:58	0 00:00	0.00	0.00
41	D07	30.08	0.00	772.90	3.53	0.00	1.64	770.78	1.41	0 11:58	0 00:00	0.00	0.00
42	D08	31.00	1.70	773.56	3.62	0.00	0.94	771.05	1.11	0 11:58	0 00:00	0.00	0.00
43	D09	25.68	1.38	773.83	3.62	0.00	1.17	771.20	0.99	0 11:59	0 00:00	0.00	0.00
44	D10	27.25	1.38	773.99	3.00	0.00	0.00	771.84	0.85	0 11:58	0 12:00	1.14	10.00
45	D11	25.91	1.38	774.34	3.08	0.00	1.16	772.12	0.86	0 12:00	0 00:00	0.00	0.00
46	D12	20.53	0.91	774.54	3.00	0.00	0.00	772.35	0.81	0 11:58	0 12:02	0.05	6.00
47	D13	19.77	0.75	774.99	3.20	0.00	1.05	772.62	0.83	0 12:03	0 00:00	0.00	0.00
48	D14	19.29	0.91	775.51	3.34	0.00	3.13	773.00	0.83	0 12:03	0 00:00	0.00	0.00
49	D15	16.94	0.51	775.80	3.46	0.00	2.50	773.17	0.83	0 12:04	0 00:00	0.00	0.00
50	D16	15.98	0.24	776.05	3.53	0.00	1.05	773.35	0.83	0 12:04	0 00:00	0.00	0.00
51	D17	16.94	0.67	776.35	3.56	0.00	0.65	773.61	0.82	0 12:04	0 00:00	0.00	0.00
52	D18	13.33	2.24	776.52	2.75	0.25	0.00	774.43	0.66	0 12:04	0 12:01	0.12	9.00
53	D19	9.40	1.38	776.59	2.54	0.54	0.00	774.65	0.60	0 12:03	0 11:59	0.25	15.00
54	D20	11.06	1.38	776.66	2.34	0.34	0.00	774.88	0.56	0 12:01	0 12:00	0.16	14.00
55	D21	6.81	2.24	776.60	2.00	0.00	0.00	775.04	0.44	0 12:00	0 12:03	0.65	9.00
56	D22	2.92	0.59	776.73	1.02	0.00	0.48	775.98	0.27	0 12:01	0 00:00	0.00	0.00
57	D23	2.37	0.24	777.07	0.81	0.00	0.69	776.49	0.23	0 12:01	0 00:00	0.00	0.00
58	D24	2.18	1.17	778.84	0.95	0.00	0.05	778.14	0.25	0 12:00	0 00:00	0.00	0.00
59	D25	1.04	1.04	779.93	0.60	0.00	0.40	779.50	0.17	0 12:00	0 00:00	0.00	0.00
60	D27	35.09	0.75	771.17	2.52	0.00	2.24	770.35	1.70	0 12:03	0 00:00	0.00	0.00
61	D28	34.46	0.53	771.72	3.00	0.00	2.20	770.49	1.77	0 12:03	0 00:00	0.00	0.00
62	D29	33.79	3.25	772.49	3.29	0.00	2.51	770.72	1.52	0 12:04	0 00:00	0.00	0.00
63	D30	27.79	2.00	772.84	3.37	0.23	0.00	770.85	1.38	0 12:04	0 12:00	0.26	15.00
64	D31	26.50	2.08	773.15	3.40	0.00	1.85	770.99	1.24	0 12:03	0 00:00	0.00	0.00
65	D32	25.31	2.16	773.35	3.33	0.33	0.00	771.12	1.10	0 12:03	0 11:55	0.38	20.00
66	D33	23.99	2.21	773.51	3.21	0.00	1.49	771.29	0.99	0 12:02	0 00:00	0.00	0.00
67	D34	21.75	2.34	773.57	3.00	0.00	0.00	771.50	0.93	0 11:55	0 12:02	1.61	15.00
68	D35	19.43	1.41	773.91	2.71	0.21	0.00	772.07	0.87	0 12:00	0 11:54	0.02	18.00
69	D36	18.22	0.45	774.26	2.85	0.00	2.02	772.30	0.89	0 12:00	0 00:00	0.00	0.00
70	D37	16.27	0.59	774.42	2.93	0.00	3.23	772.39	0.90	0 12:00	0 00:00	0.00	0.00
71	D38	15.97	3.20	774.64	2.79	0.00	1.36	772.69	0.84	0 12:00	0 00:00	0.00	0.00
72	D39	16.27	2.16	774.64	2.50	0.00	0.00	772.89	0.75	0 11:54	0 12:01	2.24	18.00
73	D40	14.29	2.16	775.34	2.42	0.00	1.16	773.62	0.70	0 12:01	0 00:00	0.00	0.00
74	D41	11.66	2.16	775.59	2.40	0.40	0.00	773.83	0.64	0 12:02	0 11:57	0.35	19.00
75	D42	9.90	2.13	775.75	2.28	0.00	1.25	774.07	0.60	0 12:00	0 00:00	0.00	0.00
76	D43	5.89	1.78	775.74	2.00	0.00	0.00	774.21	0.47	0 11:57	0 12:01	0.59	10.00
77	D44	4.12	2.90	775.79	1.91	0.00	0.09	774.30	0.42	0 11:57	0 00:00	0.00	0.00
78	D45	1.28	1.28	776.20	0.68	0.00	0.32	775.71	0.19	0 12:00	0 00:00	0.00	0.00
79	D46	3.74	0.88	776.00	1.07	0.00	0.43	775.22	0.29	0 12:00	0 00:00	0.00	0.00
80	D47	2.89	0.80	776.61	0.91	0.00	0.59	775.95	0.25	0 12:00	0 00:00	0.00	0.00
81	D48	2.11	0.72	776.91	0.83	0.00	0.42	776.31	0.23	0 12:00	0 00:00	0.00	0.00

Junction Results

SN	Element ID	Peak Inflow (cfs)	Peak Lateral Inflow (cfs)	Max HGL Elevation Attained (ft)	Max HGL Depth Attained (ft)	Max Surcharge Depth Attained (ft)	Min Freeboard Attained (ft)	Average HGL Elevation Attained (ft)	Average HGL Depth Attained (ft)	Time of Max HGL Occurrence (days hh:mm)	Time of Peak Flooding Occurrence (days hh:mm)	Total Flooded Volume (ac-in)	Total Time Flooded (min)
82	D49	1.40	0.61	777.36	0.73	0.00	0.27	776.83	0.20	0 12:00	0 00:00	0.00	0.00
83	D50	0.80	0.80	777.38	0.56	0.00	0.44	776.97	0.15	0 12:00	0 00:00	0.00	0.00
84	D51	0.91	0.91	778.82	0.53	0.00	0.47	778.44	0.15	0 12:01	0 00:00	0.00	0.00
85	D52	0.67	0.67	778.86	0.39	0.00	0.61	778.60	0.13	0 12:00	0 00:00	0.00	0.00
86	D53	0.80	0.80	777.27	0.38	0.00	1.12	777.02	0.13	0 12:00	0 00:00	0.00	0.00
87	D54	1.12	1.12	777.97	0.62	0.00	0.38	777.52	0.17	0 12:00	0 00:00	0.00	0.00
88	D55	1.01	1.01	778.91	0.59	0.00	0.41	778.48	0.16	0 12:00	0 00:00	0.00	0.00
89	D56	0.37	0.37	776.11	0.27	0.00	0.73	775.92	0.08	0 12:00	0 00:00	0.00	0.00
90	D58	2.53	2.53	771.00	1.00	0.00	0.00	770.54	0.54	0 11:59	0 11:59	0.00	0.00
91	D60	14.27	2.50	773.70	4.95	0.00	0.00	770.97	2.22	0 06:58	0 08:31	0.26	3.00
92	D61	21.86	0.51	773.72	4.82	0.02	0.00	770.98	2.08	0 06:07	0 06:58	0.06	1.00
93	RD01	2.82	2.82	776.84	1.00	0.00	0.00	776.13	0.29	0 11:56	0 12:00	0.06	9.00
94	RD02	1.76	1.76	776.33	0.99	0.00	0.01	775.58	0.24	0 12:00	0 00:00	0.00	0.00
95	RD03	1.57	1.57	776.61	0.79	0.00	0.21	776.03	0.21	0 12:00	0 00:00	0.00	0.00
96	RD04	1.76	1.76	776.16	0.84	0.00	0.16	775.54	0.22	0 12:00	0 00:00	0.00	0.00
97	RD05	1.20	1.20	776.48	0.66	0.00	0.34	776.00	0.18	0 12:00	0 00:00	0.00	0.00
98	RD06	1.09	1.09	776.99	0.65	0.00	0.35	776.52	0.18	0 12:00	0 00:00	0.00	0.00
99	RD07	1.54	1.54	776.63	0.83	0.00	0.17	776.01	0.21	0 12:00	0 00:00	0.00	0.00
100	RD08	1.68	1.68	777.25	0.95	0.00	0.05	776.52	0.22	0 12:00	0 00:00	0.00	0.00
101	RD09	1.94	1.94	777.79	0.97	0.00	0.03	777.06	0.24	0 12:00	0 00:00	0.00	0.00
102	RD10	1.94	1.94	776.98	0.97	0.00	0.03	776.25	0.24	0 12:00	0 00:00	0.00	0.00
103	RD11	1.68	1.68	776.44	0.95	0.00	0.05	775.71	0.22	0 12:00	0 00:00	0.00	0.00
104	RD12	1.54	1.54	775.82	0.83	0.00	0.17	775.20	0.21	0 12:00	0 00:00	0.00	0.00
105	RD13	1.20	1.20	776.67	0.69	0.00	0.31	776.17	0.19	0 12:00	0 00:00	0.00	0.00
106	RD14	1.20	1.20	776.14	0.68	0.00	0.32	775.64	0.18	0 12:00	0 00:00	0.00	0.00
107	RD15	1.76	1.76	775.80	0.84	0.00	0.16	775.18	0.22	0 12:00	0 00:00	0.00	0.00
108	RD16	1.57	1.57	776.80	0.83	0.00	0.17	776.19	0.22	0 12:00	0 00:00	0.00	0.00
109	RD17	1.76	1.76	776.35	0.90	0.00	0.10	775.67	0.22	0 12:00	0 00:00	0.00	0.00
110	RD18	2.82	2.82	775.95	1.00	0.00	0.00	775.23	0.28	0 11:57	0 12:00	0.03	7.00
111	RD19	2.82	2.82	777.97	1.00	0.00	0.00	777.25	0.28	0 11:57	0 12:00	0.03	7.00
112	RD20	1.76	1.76	778.37	0.90	0.00	0.10	777.69	0.22	0 12:00	0 00:00	0.00	0.00
113	RD21	1.57	1.57	778.82	0.83	0.00	0.17	778.21	0.22	0 12:00	0 00:00	0.00	0.00
114	RD22	1.76	1.76	777.21	0.84	0.00	0.16	776.59	0.22	0 12:00	0 00:00	0.00	0.00
115	RD23	1.20	1.20	777.55	0.68	0.00	0.32	777.05	0.18	0 12:00	0 00:00	0.00	0.00
116	RD24	1.20	1.20	778.08	0.69	0.00	0.31	777.58	0.19	0 12:00	0 00:00	0.00	0.00
117	RD25	1.54	1.54	777.59	0.84	0.00	0.16	776.96	0.21	0 12:00	0 00:00	0.00	0.00
118	RD26	1.68	1.68	778.20	0.95	0.00	0.05	777.47	0.22	0 12:00	0 00:00	0.00	0.00
119	RD27	1.94	1.94	778.74	0.97	0.00	0.03	778.01	0.24	0 12:00	0 00:00	0.00	0.00
120	RD29	1.94	1.94	779.17	0.97	0.00	0.03	778.44	0.24	0 12:00	0 00:00	0.00	0.00
121	RD30	1.68	1.68	778.63	0.95	0.00	0.05	777.90	0.22	0 12:00	0 00:00	0.00	0.00
122	RD31	1.54	1.54	778.01	0.83	0.00	0.17	777.39	0.21	0 12:00	0 00:00	0.00	0.00
123	RD32	1.20	1.20	778.42	0.69	0.00	0.31	777.92	0.19	0 12:00	0 00:00	0.00	0.00
124	RD33	1.20	1.20	777.88	0.67	0.00	0.33	777.39	0.18	0 12:00	0 00:00	0.00	0.00
125	RD34	1.76	1.76	777.55	0.84	0.00	0.16	776.93	0.22	0 12:00	0 00:00	0.00	0.00
126	RD35	1.57	1.57	778.10	0.83	0.00	0.17	777.49	0.22	0 12:00	0 00:00	0.00	0.00
127	RD36	1.76	1.76	777.65	0.90	0.00	0.10	776.97	0.22	0 12:00	0 00:00	0.00	0.00
128	RD37	2.82	2.82	777.25	4.00	0.00	0.00	776.49	3.24	0 11:57	0 12:00	0.03	7.00

Pipe Input

SN	Element ID	Length (ft)	Inlet Invert Elevation (ft)	Inlet Invert Offset (ft)	Outlet Invert Elevation (ft)	Outlet Invert Offset (ft)	Total Drop (ft)	Average Slope (%)	Pipe Shape	Pipe Diameter or Height (in)	Pipe Width (in)	Manning's Roughness	Entrance Losses	Exit/Bend Losses	Additional Losses	Initial Flow (cfs)	Flap Gate	No. of Barrels
1	Link-01	49.90	771.00	2.25	767.00	-1.00	4.00	8.0200	CIRCULAR	12.000	12.000	0.0150	0.5000	0.5000	0.0000	0.00	No	1
2	Link-02	30.20	768.90	0.00	768.75	0.00	0.15	0.5000	CIRCULAR	12.000	12.000	0.0150	0.5000	0.5000	0.0000	0.00	No	1
3	Link-03	54.17	767.94	0.00	767.40	3.00	0.54	1.0000	CIRCULAR	24.000	24.000	0.0150	0.5000	0.5000	0.0000	0.00	No	1
4	P(100)	49.86	776.95	0.00	776.45	0.25	0.50	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
5	P(101)	52.12	777.72	0.00	777.20	0.25	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
6	P(102)	5.00	777.77	0.00	777.72	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
7	P(103)	5.00	777.25	0.00	777.20	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
8	P(104)	5.00	776.75	0.00	776.70	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
9	P(105)	90.03	774.40	0.00	773.50	4.30	0.90	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
10	P(106)	49.86	775.15	0.00	774.65	0.25	0.50	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
11	P(107)	52.12	775.92	0.00	775.40	0.25	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
12	P(108)	5.00	775.97	0.00	775.92	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
13	P(109)	5.00	775.45	0.00	775.40	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
14	P(110)	5.00	774.95	0.00	774.90	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
15	P(111)	91.03	774.41	0.00	773.50	3.75	0.91	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
16	P(112)	49.86	775.16	0.00	774.66	0.25	0.50	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
17	P(113)	52.12	775.93	0.00	775.41	0.25	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
18	P(114)	5.00	775.98	0.00	775.93	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
19	P(115)	5.00	775.46	0.00	775.41	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
20	P(116)	5.00	774.96	0.00	774.91	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
21	P(117)	94.06	774.44	0.00	773.50	3.20	0.94	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
22	P(118)	49.86	775.19	0.00	774.69	0.25	0.50	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
23	P(119)	52.12	775.96	0.00	775.44	0.25	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
24	P(120)	5.00	776.01	0.00	775.96	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
25	P(121)	5.00	775.49	0.00	775.44	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
26	P(122)	5.00	774.99	0.00	774.94	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
27	P(123)	120.37	775.70	0.00	774.50	2.65	1.20	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
28	P(124)	49.86	776.45	0.00	775.95	0.25	0.50	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
29	P(125)	52.12	777.22	0.00	776.70	0.25	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
30	P(126)	5.00	777.27	0.00	777.22	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
31	P(127)	5.00	776.75	0.00	776.70	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
32	P(128)	5.00	776.25	3.00	776.20	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
33	P(129)	115.56	776.16	0.00	775.00	2.08	1.16	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
34	P(130)	49.86	776.90	0.00	776.41	0.25	0.49	0.9800	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
35	P(131)	52.12	777.68	0.00	777.16	0.26	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
36	P(132)	5.00	777.73	0.00	777.68	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
37	P(133)	5.03	777.21	0.00	777.16	0.26	0.05	0.9900	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
38	P(134)	5.00	776.71	0.00	776.66	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
39	P(135)	113.42	776.63	0.00	775.50	2.03	1.13	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
40	P(136)	49.86	777.38	0.00	776.88	0.25	0.50	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
41	P(137)	52.12	778.15	0.00	777.63	0.25	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
42	P(138)	5.00	778.20	0.00	778.15	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
43	P(139)	5.00	777.68	0.00	777.63	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
44	P(140)	5.00	777.18	0.00	777.13	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
45	P(15)	58.56	770.00	0.00	768.50	0.50	1.50	2.5600	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
46	P(16)	123.16	769.37	0.00	769.06	0.00	0.31	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
47	P(16) (1)	226.84	769.94	0.00	769.37	0.00	0.57	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
48	P(17)	110.00	770.21	0.00	769.94	0.00	0.27	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
49	P(18)	110.00	770.99	0.00	770.21	0.00	0.78	0.7100	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
50	P(19)	110.00	771.26	0.00	770.99	0.00	0.27	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
51	P(20)	110.00	771.54	0.00	771.26	0.00	0.28	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
52	P(23)	192.59	773.77	0.00	773.29	0.50	0.48	0.2500	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
53	P(24)	110.00	774.05	0.00	773.77	0.00	0.28	0.2500	CIRCULAR	24.000	24.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
54	P(25)	110.00	774.32	0.00	774.05	0.00	0.27	0.2500	CIRCULAR	24.000	24.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
55	P(26)	110.00	774.60	0.00	774.32	0.00	0.28	0.2500	CIRCULAR	24.000	24.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
56	P(27)	121.80	775.71	0.00	775.10	0.50	0.61	0.5000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
57	P(28)	110.16	776.26	0.00	775.71	0.00	0.55	0.5000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
58	P(29)	113.60	777.89	0.00	776.76	0.50	1.13	0.9900	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
59	P(30)	144.00	779.33	0.00	777.89	0.00	1.44	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
60	P(31)	58.17	768.65	0.00	768.50	0.50	0.15	0.2600	CIRCULAR	48.000	48.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
61	P(32)	30.00	768.72	0.00	768.65	0.00	0.07	0.2300	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
62	P(33)	191.79	769.20	0.00	768.72	0.00	0.48	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
63	P(34)	110.00	769.47	0.00	769.20	0.00	0.27	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
64	P(35)	110.00	769.75	0.00	769.47	0.00	0.28	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
65	P(36)	110.00	770.02	0.00	769.75	0.00	0.27	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
66	P(37)	110.00	770.30	0.00	770.02	0.00	0.28	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
67	P(38)	110.00	770.57	0.00	770.30	0.00	0.27	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
68	P(39)	50.09	771.20	0.00	771.07	0.50	0.13	0.2600	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
69	P(39) (1)	84.79	771.41	0.00	771.20	0.00	0.21	0.2500	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
70	P(40)	30.63	771.49	0.00	771.41	0.00	0.08	0.2600	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
71	P(41)	145.53	771.85	0.00	771.49	0.00	0.36	0.2500	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
72	P(42)	115.67	772.14	0.00	771.85	0.00	0.29	0.2500	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
73	P(43)	110.00	772.92	0.00	772.64	0.50	0.28	0.2500	CIRCULAR	24.000	24.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
74	P(44)	110.00	773.19	0.00	772.92	0.00	0.27	0.2500	CIRCULAR	24.000	24.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
75	P(45)	110.00	773.47	0.00	773.19	0.00	0.28	0.2500	CIRCULAR	24.000	24.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
76	P(46)	110.00	773.74	0.00	773.47	0.00	0.27	0.2500	CIRCULAR	24.000	24.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
77	P(47)	55.00	773.88	0.00	773.74	0.00	0.14	0.2500	CIRCULAR	24.000	24.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
78	P(48)	255.74	775.52	0.00	774.88	1.00	0.64	0.2500	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
79	P(49)	100.80	771.79	0.00	771.54	0.00	0.25	0.2500	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
80	P(50)	152.05	772.17	0.00	771.79	0.00	0.38	0.2500	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
81	P(51)	108.00	776.89	0.00	775.81	3.64	1.08	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
82	P(53)	70.60	772.52	0.00	772.34	0.00	0.18	0.2500	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1

Pipe Input

SN	Element ID	Length (ft)	Inlet Invert Elevation (ft)	Inlet Invert Offset (ft)	Outlet Invert Elevation (ft)	Outlet Invert Offset (ft)	Total Drop (ft)	Average Slope (%)	Pipe Shape	Pipe Diameter or Height (in)	Pipe Width (in)	Manning's Roughness	Entrance Losses	Exit/Bend Losses	Additional Losses	Initial Flow (cfs)	Flap Gate	No. of Barrels
83	P(54)	117.00	778.47	0.00	777.30	4.96	1.17	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
84	P(55)	163.40	778.29	0.00	776.65	5.16	1.64	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
85	P(56)	161.45	774.93	0.00	773.31	1.90	1.62	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
86	P(57)	76.76	775.70	0.00	774.93	0.00	0.77	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
87	P(58)	13.14	776.08	0.00	775.95	0.25	0.13	0.9900	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
88	P(59)	29.92	776.63	0.00	776.33	0.25	0.30	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
89	P(60)	13.28	776.82	0.00	776.63	0.00	0.19	1.4300	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
90	P(61)	52.97	768.63	0.00	768.50	0.50	0.13	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
91	P(62)	82.14	768.83	-0.01	768.63	0.00	0.20	0.2400	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
92	P(63)	90.00	769.05	-0.01	768.83	-0.01	0.22	0.2400	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
93	P(64)	108.60	772.79	0.00	772.52	0.00	0.27	0.2500	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
94	P(65)	67.82	778.32	0.00	777.64	5.47	0.68	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
95	P(66)	82.14	777.35	0.00	775.71	7.08	1.64	2.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
96	P(67)	46.08	773.84	-2.00	772.92	4.20	0.92	2.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
97	P(68)	69.52	772.34	0.00	772.17	0.00	0.17	0.2400	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
98	P(69)	127.13	774.27	0.00	773.00	3.06	1.27	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
99	P(70)	52.12	775.04	0.00	774.52	0.25	0.52	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
100	P(71)	49.86	775.79	0.00	775.29	0.25	0.50	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
101	P(72)	5.00	775.84	0.00	775.79	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
102	P(73)	5.00	775.34	0.00	775.29	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
103	P(74)	5.00	775.82	0.00	775.77	1.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
104	P(75)	126.56	774.77	0.00	773.50	3.29	1.27	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
105	P(76)	49.86	775.51	0.00	775.02	0.25	0.49	0.9800	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
106	P(77)	52.12	776.29	0.00	775.77	0.26	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
107	P(78)	5.00	776.34	0.00	776.29	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
108	P(79)	5.00	775.82	0.00	775.77	0.26	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
109	P(80)	5.00	775.32	0.00	775.27	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
110	P(81)	125.15	775.25	0.00	774.00	2.74	1.25	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
111	P(82)	49.86	776.00	0.00	775.50	0.25	0.50	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
112	P(83)	52.12	776.77	0.00	776.25	0.25	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
113	P(84)	5.00	776.82	0.00	776.77	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
114	P(85)	5.00	776.30	0.00	776.25	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
115	P(86)	5.00	775.80	0.00	775.75	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
116	P(87)	92.04	776.42	0.00	775.50	2.71	0.92	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
117	P(88)	49.86	777.17	0.00	776.67	0.25	0.50	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
118	P(89)	52.12	777.94	0.00	777.42	0.25	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
119	P(90)	5.00	777.99	0.00	777.94	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
120	P(91)	5.00	777.47	0.00	777.42	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
121	P(92)	5.00	776.97	0.00	776.92	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
122	P(93)	154.50	775.82	0.00	774.27	0.50	1.55	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
123	P(94)	49.86	776.57	0.00	776.07	0.25	0.50	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
124	P(95)	52.12	777.34	0.00	776.82	0.25	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
125	P(96)	5.00	777.39	0.00	777.34	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
126	P(97)	5.00	776.87	0.00	776.82	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
127	P(98)	5.00	776.37	0.00	776.32	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
128	P(99)	137.40	776.20	0.00	774.82	0.50	1.38	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1

Pipe Results

SN	Element ID	Peak Flow (cfs)	Time of Peak Flow Occurrence (days hh:mm)	Design Flow Capacity (cfs)	Peak Flow/ Design Flow Ratio	Peak Flow Velocity (ft/sec)	Travel Time (min)	Peak Flow Depth (ft)	Peak Flow Depth/ Total Depth Ratio	Total Time Surcharged (min)	Froude Number	Reported Condition
1	Link-01	33.64	0 09:24	7.57	4.44	50.00	0.02	0.75	0.87	0.00		> CAPACITY
2	Link-02	21.85	0 09:54	2.18	10.04	50.00	0.01	1.00	1.00	873.00		SURCHARGED
3	Link-03	4.94	0 13:46	19.58	0.25	4.67	0.19	0.74	0.37	0.00		Calculated
4	P(100)	3.57	0 12:00	7.01	0.51	3.28	0.25	1.09	0.89	0.00		Calculated
5	P(101)	1.92	0 12:00	3.86	0.50	2.92	0.30	0.89	0.91	0.00		Calculated
6	P(102)	1.93	0 12:00	3.86	0.50	2.54	0.03	0.93	0.93	0.00		Calculated
7	P(103)	1.67	0 12:00	3.86	0.43	2.76	0.03	0.92	0.93	0.00		Calculated
8	P(104)	1.53	0 12:00	3.86	0.40	2.94	0.03	0.81	0.82	0.00		Calculated
9	P(105)	5.55	0 12:00	11.38	0.49	4.18	0.36	1.05	0.70	0.00		Calculated
10	P(106)	3.28	0 12:00	7.01	0.47	3.06	0.27	1.10	0.89	0.00		Calculated
11	P(107)	1.55	0 12:00	3.86	0.40	2.74	0.32	0.81	0.81	0.00		Calculated
12	P(108)	1.56	0 12:00	3.86	0.41	2.31	0.04	0.80	0.81	0.00		Calculated
13	P(109)	1.75	0 12:00	3.86	0.45	2.85	0.03	0.87	0.87	0.00		Calculated
14	P(110)	2.29	0 11:57	3.86	0.59	3.16	0.03	0.93	0.94	0.00		Calculated
15	P(111)	4.03	0 12:00	11.38	0.35	3.78	0.40	0.86	0.58	0.00		Calculated
16	P(112)	2.35	0 12:00	7.01	0.34	3.11	0.27	0.87	0.71	0.00		Calculated
17	P(113)	1.18	0 12:00	3.86	0.31	2.79	0.31	0.64	0.65	0.00		Calculated
18	P(114)	1.19	0 12:00	3.86	0.31	2.27	0.04	0.67	0.67	0.00		Calculated
19	P(115)	1.19	0 12:00	3.86	0.31	2.81	0.03	0.65	0.66	0.00		Calculated
20	P(116)	1.75	0 12:00	3.86	0.45	2.96	0.03	0.72	0.73	0.00		Calculated
21	P(117)	5.01	0 12:00	11.38	0.44	4.01	0.39	0.98	0.66	0.00		Calculated
22	P(118)	3.57	0 12:00	7.01	0.51	3.28	0.25	1.08	0.89	0.00		Calculated
23	P(119)	1.92	0 12:00	3.86	0.50	2.92	0.30	0.89	0.91	0.00		Calculated
24	P(120)	1.93	0 12:00	3.86	0.50	2.54	0.03	0.93	0.93	0.00		Calculated
25	P(121)	1.67	0 12:00	3.86	0.43	2.76	0.03	0.92	0.93	0.00		Calculated
26	P(122)	1.53	0 12:00	3.86	0.40	2.94	0.03	0.79	0.82	0.00		Calculated
27	P(123)	5.55	0 12:00	11.36	0.49	4.17	0.48	1.05	0.70	0.00		Calculated
28	P(124)	3.28	0 12:00	7.01	0.47	3.07	0.27	1.10	0.89	0.00		Calculated
29	P(125)	1.55	0 12:00	3.86	0.40	2.74	0.32	0.81	0.81	0.00		Calculated
30	P(126)	1.56	0 12:00	3.86	0.41	2.31	0.04	0.80	0.81	0.00		Calculated
31	P(127)	1.75	0 12:00	3.86	0.45	2.85	0.03	0.87	0.87	0.00		Calculated
32	P(128)	2.29	0 11:57	3.86	0.59	3.16	0.03	0.93	0.94	0.00		Calculated
33	P(129)	4.02	0 12:01	11.40	0.35	3.78	0.51	0.85	0.58	0.00		Calculated
34	P(130)	2.35	0 12:00	6.94	0.34	3.11	0.27	0.86	0.71	0.00		Calculated
35	P(131)	1.18	0 12:00	3.86	0.31	2.81	0.31	0.64	0.64	0.00		Calculated
36	P(132)	1.19	0 12:00	3.86	0.31	2.27	0.04	0.67	0.67	0.00		Calculated
37	P(133)	1.19	0 12:00	3.85	0.31	2.81	0.03	0.64	0.65	0.00		Calculated
38	P(134)	1.75	0 12:00	3.86	0.45	2.97	0.03	0.72	0.73	0.00		Calculated
39	P(135)	4.99	0 12:00	11.36	0.44	4.01	0.47	0.97	0.66	0.00		Calculated
40	P(136)	3.57	0 12:00	7.01	0.51	3.28	0.25	1.08	0.88	0.00		Calculated
41	P(137)	1.92	0 12:00	3.86	0.50	2.92	0.30	0.89	0.91	0.00		Calculated
42	P(138)	1.93	0 12:00	3.86	0.50	2.54	0.03	0.93	0.93	0.00		Calculated
43	P(139)	1.67	0 12:00	3.86	0.43	2.76	0.03	0.92	0.93	0.00		Calculated
44	P(140)	1.53	0 12:00	3.86	0.40	2.94	0.03	0.79	0.81	0.00		Calculated
45	P(15)	2.51	0 11:59	6.18	0.41	3.20	0.30	1.00	1.00	2.00		SURCHARGED
46	P(16)	30.07	0 11:59	36.25	0.83	4.25	0.48	3.00	1.00	14.00		SURCHARGED
47	P(16) (1)	30.08	0 11:58	36.22	0.83	4.26	0.89	3.00	1.00	15.00		SURCHARGED
48	P(17)	25.62	0 12:09	35.80	0.72	3.62	0.51	3.00	1.00	14.00		SURCHARGED
49	P(18)	22.84	0 12:09	60.85	0.38	3.44	0.53	3.00	1.00	10.00		SURCHARGED
50	P(19)	25.90	0 12:01	35.80	0.72	3.70	0.50	3.00	1.00	9.00		SURCHARGED
51	P(20)	20.25	0 12:05	36.46	0.56	3.25	0.56	3.00	1.00	6.00		SURCHARGED
52	P(23)	13.14	0 12:11	22.18	0.59	3.78	0.85	2.50	1.00	9.00		SURCHARGED
53	P(24)	10.94	0 12:12	12.36	0.88	3.50	0.52	2.00	1.00	14.00		SURCHARGED
54	P(25)	8.13	0 11:58	12.14	0.67	2.82	0.65	2.00	1.00	14.00		SURCHARGED
55	P(26)	4.93	0 11:59	12.36	0.40	1.64	1.12	2.00	1.00	9.00		SURCHARGED
56	P(27)	3.05	0 12:01	8.05	0.38	2.89	0.70	1.23	0.84	0.00		Calculated
57	P(28)	2.36	0 12:01	8.04	0.29	2.46	0.75	0.85	0.61	0.00		Calculated
58	P(29)	2.14	0 12:00	3.85	0.56	3.43	0.55	0.72	0.74	0.00		Calculated
59	P(30)	1.02	0 12:00	3.86	0.26	1.66	1.45	0.76	0.77	0.00		Calculated
60	P(31)	35.09	0 12:03	79.02	0.44	5.12	0.19	2.19	0.55	0.00		Calculated
61	P(32)	34.46	0 12:04	34.90	0.99	5.06	0.10	2.76	0.92	0.00		Calculated
62	P(33)	33.73	0 12:04	36.15	0.93	4.77	0.67	3.00	1.00	2.00		SURCHARGED
63	P(34)	28.56	0 12:10	35.80	0.80	4.04	0.45	3.00	1.00	16.00		SURCHARGED
64	P(35)	26.69	0 12:13	36.46	0.73	3.80	0.48	3.00	1.00	19.00		SURCHARGED
65	P(36)	25.20	0 12:13	35.80	0.70	3.57	0.51	3.00	1.00	19.00		SURCHARGED
66	P(37)	23.84	0 11:55	36.46	0.65	3.37	0.54	3.00	1.00	18.00		SURCHARGED
67	P(38)	19.32	0 11:55	35.80	0.54	2.84	0.65	3.00	1.00	15.00		SURCHARGED
68	P(39)	19.45	0 12:00	22.64	0.86	4.04	0.21	2.50	1.00	15.00		SURCHARGED
69	P(39) (1)	18.03	0 12:00	22.11	0.82	3.67	0.39	2.50	1.00	18.00		SURCHARGED
70	P(40)	15.81	0 11:54	22.71	0.70	3.22	0.16	2.50	1.00	19.00		SURCHARGED
71	P(41)	15.40	0 11:54	22.10	0.70	3.14	0.77	2.50	1.00	19.00		SURCHARGED
72	P(42)	11.55	0 12:12	22.25	0.52	2.36	0.82	2.50	1.00	18.00		SURCHARGED
73	P(43)	14.29	0 12:02	12.36	1.16	4.55	0.40	2.00	1.00	18.00		SURCHARGED
74	P(44)	9.65	0 12:09	12.14	0.80	3.07	0.60	2.00	1.00	18.00		SURCHARGED
75	P(45)	9.83	0 11:57	12.36	0.79	3.13	0.59	2.00	1.00	15.00		SURCHARGED
76	P(46)	4.23	0 11:57	12.14	0.35	1.76	1.04	2.00	1.00	10.00		SURCHARGED
77	P(47)	4.12	0 12:00	12.36	0.33	1.59	0.58	1.95	0.98	0.00		Calculated
78	P(48)	1.24	0 12:00	1.93	0.64	2.33	1.83	0.79	0.79	0.00		Calculated
79	P(49)	19.77	0 12:03	22.13	0.89	4.03	0.42	2.50	1.00	13.00		SURCHARGED
80	P(50)	19.16	0 12:04	22.21	0.86	3.90	0.65	2.50	1.00	14.00		SURCHARGED
81	P(51)	0.79	0 12:00	11.38	0.07	2.83	0.64	0.32	0.21	0.00		Calculated

Pipe Results

SN	Element ID	Peak Flow (cfs)	Time of Peak Flow Occurrence (days hh:mm)	Design Flow Capacity (cfs)	Peak Flow/ Design Flow Ratio	Peak Flow Velocity (ft/sec)	Travel Time (min)	Peak Flow Depth (ft)	Peak Flow Depth/ Total Depth Ratio	Total Time Surcharged (min)	Froude Number	Reported Condition
82	P(53)	15.98	0 12:06	22.44	0.71	3.25	0.36	2.50	1.00	15.00		SURCHARGED
83	P(54)	0.65	0 12:00	3.86	0.17	2.85	0.68	0.33	0.33	0.00		Calculated
84	P(55)	0.88	0 11:59	3.87	0.23	2.94	0.93	0.41	0.42	0.00		Calculated
85	P(56)	3.69	0 12:01	11.40	0.32	3.50	0.77	0.99	0.67	0.00		Calculated
86	P(57)	2.88	0 12:00	11.40	0.25	2.50	0.51	0.97	0.66	0.00		Calculated
87	P(58)	2.10	0 12:00	6.96	0.30	3.27	0.07	0.74	0.60	0.00		Calculated
88	P(59)	1.39	0 12:00	3.86	0.36	2.94	0.17	0.65	0.65	0.00		Calculated
89	P(60)	0.79	0 12:00	4.62	0.17	1.66	0.13	0.64	0.65	0.00		Calculated
90	P(61)	32.95	0 12:00	35.79	0.92	5.55	0.16	2.35	0.78	0.00		Calculated
91	P(62)	31.55	0 11:59	36.53	0.86	4.50	0.30	2.92	0.97	0.00		Calculated
92	P(63)	30.77	0 11:59	35.72	0.86	4.35	0.34	3.00	1.00	10.00		SURCHARGED
93	P(64)	15.84	0 12:07	22.16	0.72	3.23	0.56	2.50	1.00	16.00		SURCHARGED
94	P(65)	0.99	0 12:00	3.86	0.26	2.94	0.38	0.46	0.47	0.00		Calculated
95	P(66)	1.09	0 12:00	5.45	0.20	3.28	0.42	0.46	0.46	0.00		Calculated
96	P(67)	0.37	0 12:00	9.72	0.04	3.20	0.24	0.20	0.20	0.00		Calculated
97	P(68)	16.95	0 12:04	21.97	0.77	3.45	0.34	2.50	1.00	14.00		SURCHARGED
98	P(69)	5.27	0 12:00	11.37	0.46	4.10	0.52	1.02	0.69	0.00		Calculated
99	P(70)	3.78	0 12:00	6.99	0.54	3.28	0.26	1.13	0.91	0.00		Calculated
100	P(71)	2.04	0 11:56	3.87	0.53	2.94	0.28	0.93	0.93	0.00		Calculated
101	P(72)	2.05	0 11:56	3.86	0.53	2.65	0.03	0.96	0.96	0.00		Calculated
102	P(73)	1.75	0 12:00	3.86	0.45	2.63	0.03	0.96	0.97	0.00		Calculated
103	P(74)	1.56	0 12:00	3.86	0.41	3.09	0.03	0.61	0.61	0.00		Calculated
104	P(75)	3.91	0 12:01	11.40	0.34	3.75	0.56	0.83	0.57	0.00		Calculated
105	P(76)	2.25	0 12:00	6.94	0.32	3.09	0.27	0.84	0.69	0.00		Calculated
106	P(77)	1.08	0 12:00	3.86	0.28	2.76	0.31	0.61	0.61	0.00		Calculated
107	P(78)	1.09	0 12:00	3.86	0.28	2.28	0.04	0.63	0.63	0.00		Calculated
108	P(79)	1.19	0 12:00	3.86	0.31	2.85	0.03	0.63	0.63	0.00		Calculated
109	P(80)	1.75	0 12:00	3.86	0.45	3.01	0.03	0.71	0.72	0.00		Calculated
110	P(81)	4.99	0 12:00	11.37	0.44	4.01	0.52	0.97	0.66	0.00		Calculated
111	P(82)	3.57	0 12:00	7.01	0.51	3.28	0.25	1.08	0.88	0.00		Calculated
112	P(83)	1.92	0 12:00	3.86	0.50	2.92	0.30	0.89	0.91	0.00		Calculated
113	P(84)	1.93	0 12:00	3.86	0.50	2.54	0.03	0.93	0.93	0.00		Calculated
114	P(85)	1.67	0 12:00	3.86	0.43	2.76	0.03	0.92	0.93	0.00		Calculated
115	P(86)	1.53	0 12:00	3.86	0.40	2.94	0.03	0.79	0.81	0.00		Calculated
116	P(87)	5.55	0 12:00	11.38	0.49	4.18	0.37	1.06	0.72	0.00		Calculated
117	P(88)	3.28	0 12:00	7.01	0.47	3.06	0.27	1.10	0.89	0.00		Calculated
118	P(89)	1.55	0 12:00	3.86	0.40	2.74	0.32	0.81	0.81	0.00		Calculated
119	P(90)	1.56	0 12:00	3.86	0.41	2.31	0.04	0.80	0.81	0.00		Calculated
120	P(91)	1.75	0 12:00	3.86	0.45	2.85	0.03	0.87	0.87	0.00		Calculated
121	P(92)	2.29	0 11:57	3.86	0.59	3.16	0.03	0.93	0.94	0.00		Calculated
122	P(93)	4.05	0 12:00	11.40	0.36	3.06	0.84	1.31	0.88	0.00		Calculated
123	P(94)	2.35	0 12:00	7.01	0.34	3.11	0.27	0.87	0.71	0.00		Calculated
124	P(95)	1.18	0 12:00	3.86	0.31	2.79	0.31	0.64	0.65	0.00		Calculated
125	P(96)	1.19	0 12:00	3.86	0.31	2.27	0.04	0.67	0.67	0.00		Calculated
126	P(97)	1.19	0 12:00	3.86	0.31	2.81	0.03	0.65	0.66	0.00		Calculated
127	P(98)	1.75	0 12:00	3.86	0.45	2.95	0.03	0.72	0.73	0.00		Calculated
128	P(99)	5.09	0 12:00	11.40	0.45	3.47	0.66	1.39	0.93	0.00		Calculated

Storage Nodes

Storage Node : POND

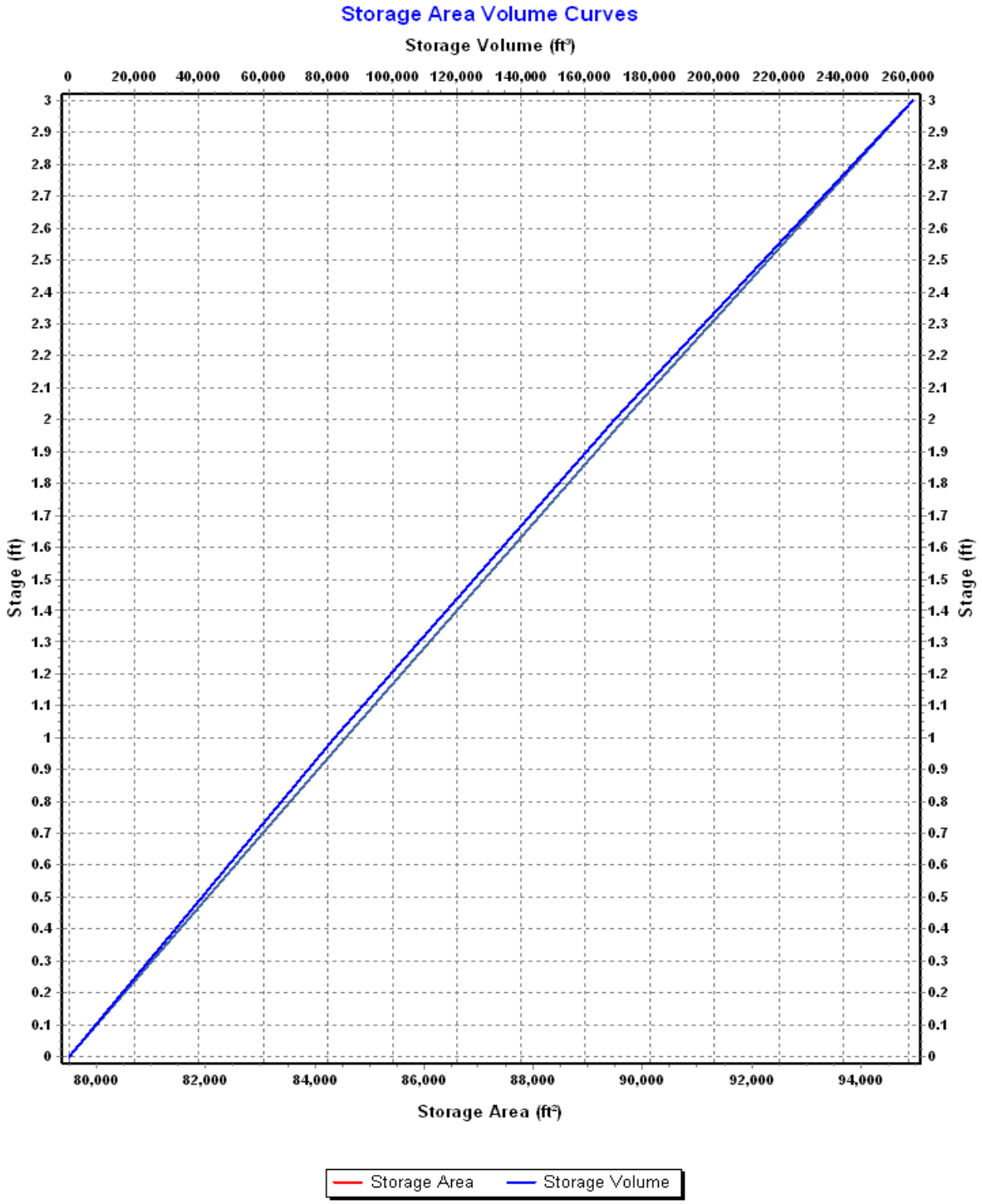
Input Data

Invert Elevation (ft) 768.00
Max (Rim) Elevation (ft) 772.00
Max (Rim) Offset (ft) 4.00
Initial Water Elevation (ft) 768.00
Initial Water Depth (ft) 0.00
Ponded Area (ft²) 100290.00
Evaporation Loss 0.00

Storage Area Volume Curves

Storage Curve : Storage-POND

Stage (ft)	Storage Area (ft²)	Storage Volume (ft³)
0	79508	0.000
1	84543	82025.50
2	89680	169137.00
3	94939	261446.50


Storage Area Volume Curves
Storage Volume (ft³)
0
20,000
40,000
60,000
80,000
100,000
120,000
140,000
160,000
180,000
200,000
220,000
240,000
260,000
Stage (ft)
3
2.9
2.8
2.7
2.6
2.5
2.4
2.3
2.2
2.1
2
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
80,000
82,000
84,000
86,000
88,000
90,000
92,000
94,000
Storage Area (ft²)
Storage Area
Storage Volume

Storage Node : POND (continued)

Outflow Weirs

SN	Element ID	Weir Type	Flap Gate	Crest Elevation (ft)	Crest Offset (ft)	Length (ft)	Weir Total Height (ft)	Discharge Coefficient
1	Weir-RIM	Rectangular	No	770.50	2.50	8.00	1.00	3.33
2	Weir-Spillway	Rectangular	No	771.25	3.25	20.00	0.60	3.33

Outflow Orifices

SN	Element ID	Orifice Type	Orifice Shape	Flap Gate	Circular Orifice Diameter (in)	Rectangular Orifice Height (in)	Rectangular Orifice Width (in)	Orifice Invert Elevation (ft)	Orifice Coefficient
1	Orifice-WQv	Side	CIRCULAR	No	6.10			768.00	0.61

Output Summary Results

Peak Inflow (cfs) 75.96
Peak Lateral Inflow (cfs) 2.84
Peak Outflow (cfs) 4.94
Peak Exfiltration Flow Rate (cfm) 0.00
Max HGL Elevation Attained (ft) 770.76
Max HGL Depth Attained (ft) 2.76
Average HGL Elevation Attained (ft) 769.98
Average HGL Depth Attained (ft) 1.98
Time of Max HGL Occurrence (days hh:mm) 0 13:46
Total Exfiltration Volume (1000-ft³) 0.000
Total Flooded Volume (ac-in) 0
Total Time Flooded (min) 0
Total Retention Time (sec) 0.00

Project Description

File Name ..... 2015-10-21_DESIGN.SPF

Project Options

Flow Units ..... CFS
Elevation Type ..... Elevation
Hydrology Method ..... SCS TR-55
Time of Concentration (TOC) Method ..... SCS TR-55
Link Routing Method ..... Hydrodynamic
Enable Overflow Ponding at Nodes ..... YES
Skip Steady State Analysis Time Periods ..... NO

Analysis Options

Start Analysis On ..... Sep 27, 2015 00:00:00
End Analysis On ..... Sep 28, 2015 00:00:00
Start Reporting On ..... Sep 27, 2015 00:00:00
Antecedent Dry Days ..... 0 days
Runoff (Dry Weather) Time Step ..... 0 01:00:00 days hh:mm:ss
Runoff (Wet Weather) Time Step ..... 0 00:05:00 days hh:mm:ss
Reporting Time Step ..... 0 00:05:00 days hh:mm:ss
Routing Time Step ..... 30 seconds

Number of Elements

	Qty
Rain Gages	1
Subbasins	91
Nodes	130
Junctions	128
Outfalls	1
Flow Diversions	0
Inlets	0
Storage Nodes	1
Links	131
Channels	0
Pipes	128
Pumps	0
Orifices	1
Weirs	2
Outlets	0
Pollutants	0
Land Uses	0

Rainfall Details

SN	Rain Gage ID	Data Source	Data Source ID	Rainfall Type	Rain Units	State	County	Return Period (years)	Rainfall Depth (inches)	Rainfall Distribution
1	Rain Gage-01	Time Series	TS-010	Cumulative	inches	Ohio	Franklin	10	3.70	SCS Type II 24-hr

Subbasin Summary

SN	Subbasin ID	Area (ac)	Weighted Curve Number	Total Rainfall (in)	Total Runoff (in)	Total Runoff Volume (ac-in)	Peak Runoff (cfs)	Time of Concentration (days hh:mm:ss)
1	Sub-D04	0.10	98.00	3.70	3.46	0.35	0.49	0 00:05:00
2	Sub-D05	0.18	98.00	3.70	3.47	0.62	0.87	0 00:05:00
3	Sub-D06	0.17	98.00	3.70	3.47	0.59	0.83	0 00:05:00
4	Sub-D08	0.41	98.00	3.70	3.47	1.42	1.98	0 00:05:00
5	Sub-D09	0.33	98.00	3.70	3.47	1.14	1.61	0 00:05:00
6	Sub-D10	0.33	98.00	3.70	3.47	1.14	1.61	0 00:05:00
7	Sub-D11	0.33	98.00	3.70	3.47	1.14	1.61	0 00:05:00
8	Sub-D12	0.22	98.00	3.70	3.47	0.76	1.05	0 00:05:00
9	Sub-D13	0.18	98.00	3.70	3.47	0.62	0.87	0 00:05:00
10	Sub-D14	0.22	98.00	3.70	3.47	0.76	1.05	0 00:05:00
11	Sub-D15	0.12	98.00	3.70	3.46	0.42	0.59	0 00:05:00
12	Sub-D16	0.06	98.00	3.70	3.45	0.21	0.28	0 00:05:00
13	Sub-D17	0.16	98.00	3.70	3.46	0.55	0.77	0 00:05:00
14	Sub-D18	0.54	98.00	3.70	3.47	1.87	2.60	0 00:05:00
15	Sub-D19	0.33	98.00	3.70	3.47	1.14	1.61	0 00:05:00
16	Sub-D20	0.33	98.00	3.70	3.47	1.14	1.61	0 00:05:00
17	Sub-D21	0.54	98.00	3.70	3.47	1.87	2.60	0 00:05:00
18	Sub-D22	0.14	98.00	3.70	3.46	0.48	0.68	0 00:05:00
19	Sub-D23	0.06	98.00	3.70	3.45	0.21	0.28	0 00:05:00
20	Sub-D24	0.28	98.00	3.70	3.47	0.97	1.36	0 00:05:00
21	Sub-D25	0.25	98.00	3.70	3.47	0.87	1.21	0 00:05:00
22	Sub-D27	0.18	98.00	3.70	3.47	0.62	0.87	0 00:05:00
23	Sub-D28	0.13	98.00	3.70	3.46	0.45	0.62	0 00:05:00
24	Sub-D29	0.78	98.00	3.70	3.47	2.70	3.77	0 00:05:00
25	Sub-D30	0.48	98.00	3.70	3.47	1.66	2.32	0 00:05:00
26	Sub-D31	0.50	98.00	3.70	3.47	1.73	2.41	0 00:05:00
27	Sub-D32	0.52	98.00	3.70	3.47	1.80	2.50	0 00:05:00
28	Sub-D33	0.53	98.00	3.70	3.47	1.84	2.57	0 00:05:00
29	Sub-D34	0.56	98.00	3.70	3.47	1.94	2.72	0 00:05:00
30	Sub-D35	0.34	98.00	3.70	3.47	1.18	1.64	0 00:05:00
31	Sub-D36	0.11	98.00	3.70	3.46	0.38	0.53	0 00:05:00
32	Sub-D37	0.14	98.00	3.70	3.46	0.48	0.68	0 00:05:00
33	Sub-D38	0.77	98.00	3.70	3.47	2.67	3.71	0 00:05:00
34	Sub-D39	0.52	98.00	3.70	3.47	1.80	2.50	0 00:05:00
35	Sub-D40	0.52	98.00	3.70	3.47	1.80	2.50	0 00:05:00
36	Sub-D41	0.52	98.00	3.70	3.47	1.80	2.50	0 00:05:00
37	Sub-D42	0.51	98.00	3.70	3.47	1.77	2.47	0 00:05:00
38	Sub-D43	0.43	98.00	3.70	3.47	1.49	2.07	0 00:05:00
39	Sub-D44	0.70	98.00	3.70	3.47	2.43	3.37	0 00:05:00
40	Sub-D45	0.31	98.00	3.70	3.47	1.07	1.48	0 00:05:00
41	Sub-D46	0.21	98.00	3.70	3.47	0.73	1.02	0 00:05:00
42	Sub-D47	0.19	98.00	3.70	3.47	0.66	0.93	0 00:05:00
43	Sub-D48	0.17	98.00	3.70	3.47	0.59	0.83	0 00:05:00
44	Sub-D49	0.15	98.00	3.70	3.46	0.52	0.71	0 00:05:00
45	Sub-D50	0.19	98.00	3.70	3.47	0.66	0.93	0 00:05:00
46	Sub-D51	0.22	98.00	3.70	3.47	0.76	1.05	0 00:05:00
47	Sub-D52	0.16	98.00	3.70	3.46	0.55	0.77	0 00:05:00
48	Sub-D53	0.19	98.00	3.70	3.47	0.66	0.93	0 00:05:00
49	Sub-D54	0.27	98.00	3.70	3.47	0.94	1.30	0 00:05:00
50	Sub-D55	0.24	98.00	3.70	3.47	0.83	1.17	0 00:05:00
51	Sub-D56	0.09	98.00	3.70	3.46	0.31	0.43	0 00:05:00
52	Sub-D58	0.61	98.00	3.70	3.47	2.11	2.94	0 00:05:00
53	Sub-D60	0.60	98.00	3.70	3.47	2.08	2.91	0 00:05:00
54	Sub-D61	0.12	98.00	3.70	3.46	0.42	0.59	0 00:05:00
55	Sub-POND	1.29	80.00	3.70	1.80	2.32	3.69	0 00:05:00
56	Sub-RD01	0.68	98.00	3.70	3.47	2.36	3.28	0 00:05:00
57	Sub-RD02	0.42	98.00	3.70	3.47	1.46	2.04	0 00:05:00
58	Sub-RD03	0.38	98.00	3.70	3.47	1.32	1.82	0 00:05:00
59	Sub-RD04	0.42	98.00	3.70	3.47	1.46	2.04	0 00:05:00
60	Sub-RD05	0.29	98.00	3.70	3.47	1.00	1.39	0 00:05:00
61	Sub-RD06	0.26	98.00	3.70	3.47	0.90	1.27	0 00:05:00
62	Sub-RD07	0.37	98.00	3.70	3.47	1.28	1.79	0 00:05:00
63	Sub-RD08	0.40	98.00	3.70	3.47	1.39	1.95	0 00:05:00
64	Sub-RD09	0.47	98.00	3.70	3.47	1.63	2.26	0 00:05:00
65	Sub-RD10	0.47	98.00	3.70	3.47	1.63	2.26	0 00:05:00
66	Sub-RD11	0.40	98.00	3.70	3.47	1.39	1.95	0 00:05:00
67	Sub-RD12	0.37	98.00	3.70	3.47	1.28	1.79	0 00:05:00
68	Sub-RD13	0.29	98.00	3.70	3.47	1.00	1.39	0 00:05:00
69	Sub-RD14	0.29	98.00	3.70	3.47	1.00	1.39	0 00:05:00
70	Sub-RD15	0.42	98.00	3.70	3.47	1.46	2.04	0 00:05:00
71	Sub-RD16	0.38	98.00	3.70	3.47	1.32	1.82	0 00:05:00
72	Sub-RD17	0.42	98.00	3.70	3.47	1.46	2.04	0 00:05:00
73	Sub-RD18	0.68	98.00	3.70	3.47	2.36	3.28	0 00:05:00
74	Sub-RD19	0.68	98.00	3.70	3.47	2.36	3.28	0 00:05:00
75	Sub-RD20	0.42	98.00	3.70	3.47	1.46	2.04	0 00:05:00
76	Sub-RD21	0.38	98.00	3.70	3.47	1.32	1.82	0 00:05:00
77	Sub-RD22	0.42	98.00	3.70	3.47	1.46	2.04	0 00:05:00
78	Sub-RD23	0.29	98.00	3.70	3.47	1.00	1.39	0 00:05:00
79	Sub-RD24	0.29	98.00	3.70	3.47	1.00	1.39	0 00:05:00
80	Sub-RD25	0.37	98.00	3.70	3.47	1.28	1.79	0 00:05:00
81	Sub-RD26	0.40	98.00	3.70	3.47	1.39	1.95	0 00:05:00
82	Sub-RD27	0.47	98.00	3.70	3.47	1.63	2.26	0 00:05:00

Subbasin Summary

SN	Subbasin ID	Area (ac)	Weighted Curve Number	Total Rainfall (in)	Total Runoff (in)	Total Runoff Volume (ac-in)	Peak Runoff (cfs)	Time of Concentration (days hh:mm:ss)
83	Sub-RD29	0.47	98.00	3.70	3.47	1.63	2.26	0 00:05:00
84	Sub-RD30	0.40	98.00	3.70	3.47	1.39	1.95	0 00:05:00
85	Sub-RD31	0.37	98.00	3.70	3.47	1.28	1.79	0 00:05:00
86	Sub-RD32	0.29	98.00	3.70	3.47	1.00	1.39	0 00:05:00
87	Sub-RD33	0.29	98.00	3.70	3.47	1.00	1.39	0 00:05:00
88	Sub-RD34	0.42	98.00	3.70	3.47	1.46	2.04	0 00:05:00
89	Sub-RD35	0.38	98.00	3.70	3.47	1.32	1.82	0 00:05:00
90	Sub-RD36	0.42	98.00	3.70	3.47	1.46	2.04	0 00:05:00
91	Sub-RD37	0.68	98.00	3.70	3.47	2.36	3.28	0 00:05:00

Node Summary

SN	Element ID	Element Type	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Initial Water Elevation (ft)	Surcharge Elevation (ft)	Ponded Area (ft²)	Peak Inflow (cfs)	Max HGL Elevation Attained (ft)	Max Surcharge Depth Attained (ft)	Min Freeboard Attained (ft)	Time of Peak Flooding Occurrence (days hh:mm)	Total Flooded Volume (ac-in)	Total Time Flooded (min)
1	(100)	Junction	776.42	772.06	776.42	772.06	0.00	5.83	777.83	0.00	0.09	0 00:00	0.00	0.00
2	(101)	Junction	777.17	772.54	777.17	772.54	0.00	3.74	778.36	0.00	0.06	0 00:00	0.00	0.00
3	(102)	Junction	777.94	773.05	777.94	773.05	0.00	1.81	778.80	0.00	0.14	0 00:00	0.00	0.00
4	(106)	Junction	775.82	771.46	775.82	771.46	0.00	4.75	777.06	0.00	0.26	0 00:00	0.00	0.00
5	(107)	Junction	776.57	771.94	776.57	771.94	0.00	2.75	777.55	0.00	0.27	0 00:00	0.00	0.00
6	(108)	Junction	777.34	772.44	777.34	772.44	0.00	1.38	778.06	0.00	0.28	0 00:00	0.00	0.00
7	(112)	Junction	776.20	771.84	776.20	771.84	0.00	5.61	777.58	0.00	0.12	0 00:00	0.00	0.00
8	(113)	Junction	776.95	772.32	776.95	772.32	0.00	3.84	778.16	0.00	0.04	0 00:00	0.00	0.00
9	(114)	Junction	777.72	772.82	777.72	772.82	0.00	2.05	778.64	0.00	0.08	0 00:00	0.00	0.00
10	(119)	Junction	774.40	770.04	774.40	770.04	0.00	5.83	775.81	0.00	0.09	0 00:00	0.00	0.00
11	(120)	Junction	775.15	770.52	775.15	770.52	0.00	3.74	776.34	0.00	0.06	0 00:00	0.00	0.00
12	(121)	Junction	775.92	771.03	775.92	771.03	0.00	1.81	776.78	0.00	0.14	0 00:00	0.00	0.00
13	(125)	Junction	774.41	770.05	774.41	770.05	0.00	4.75	775.64	0.00	0.27	0 00:00	0.00	0.00
14	(126)	Junction	775.16	770.53	775.16	770.53	0.00	2.75	776.14	0.00	0.27	0 00:00	0.00	0.00
15	(127)	Junction	775.93	771.04	775.93	771.04	0.00	1.38	776.65	0.00	0.28	0 00:00	0.00	0.00
16	(131)	Junction	774.44	770.08	774.44	770.08	0.00	5.61	775.82	0.00	0.12	0 00:00	0.00	0.00
17	(132)	Junction	775.19	770.56	775.19	770.56	0.00	3.84	776.40	0.00	0.04	0 00:00	0.00	0.00
18	(133)	Junction	775.96	771.07	775.96	771.07	0.00	2.05	776.88	0.00	0.08	0 00:00	0.00	0.00
19	(137)	Junction	775.70	771.35	775.70	771.35	0.00	5.83	777.11	0.00	0.09	0 00:00	0.00	0.00
20	(138)	Junction	776.45	771.82	776.45	771.82	0.00	3.74	777.64	0.00	0.06	0 00:00	0.00	0.00
21	(139)	Junction	777.22	772.33	777.22	772.33	0.00	1.81	778.08	0.00	0.14	0 00:00	0.00	0.00
22	(143)	Junction	776.16	771.80	776.16	771.80	0.00	4.75	777.39	0.00	0.27	0 00:00	0.00	0.00
23	(144)	Junction	776.90	772.28	776.90	772.28	0.00	2.75	777.88	0.00	0.28	0 00:00	0.00	0.00
24	(145)	Junction	777.68	772.78	777.68	772.78	0.00	1.38	778.40	0.00	0.28	0 00:00	0.00	0.00
25	(149)	Junction	776.63	772.28	776.63	772.28	0.00	5.61	778.01	0.00	0.12	0 00:00	0.00	0.00
26	(150)	Junction	777.38	772.75	777.38	772.75	0.00	3.84	778.59	0.00	0.04	0 00:00	0.00	0.00
27	(151)	Junction	778.15	773.26	778.15	773.26	0.00	2.05	779.07	0.00	0.08	0 00:00	0.00	0.00
28	(81)	Junction	774.27	770.95	774.27	770.95	0.00	5.64	775.65	0.00	1.12	0 00:00	0.00	0.00
29	(82)	Junction	775.04	770.41	775.04	770.41	0.00	3.84	776.25	0.00	0.04	0 00:00	0.00	0.00
30	(83)	Junction	775.79	770.90	775.79	770.90	0.00	2.05	776.71	0.00	0.08	0 00:00	0.00	0.00
31	(87)	Junction	774.77	770.41	774.77	770.41	0.00	4.62	775.99	0.00	0.28	0 00:00	0.00	0.00
32	(88)	Junction	775.51	770.89	775.51	770.89	0.00	2.63	776.46	0.00	0.31	0 00:00	0.00	0.00
33	(89)	Junction	776.29	771.39	776.29	771.39	0.00	1.26	776.97	0.00	0.32	0 00:00	0.00	0.00
34	(94)	Junction	775.25	770.90	775.25	770.90	0.00	5.61	776.63	0.00	0.12	0 00:00	0.00	0.00
35	(95)	Junction	776.00	771.37	776.00	771.37	0.00	3.84	777.21	0.00	0.04	0 00:00	0.00	0.00
36	(96)	Junction	776.77	771.88	776.77	771.88	0.00	2.05	777.69	0.00	0.08	0 00:00	0.00	0.00
37	D02	Junction	767.94	771.00	767.94	771.00	0.00	7.84	768.99	0.00	2.80	0 00:00	0.00	0.00
38	D04	Junction	768.63	774.75	768.63	774.75	0.00	33.48	771.49	0.00	5.22	0 00:00	0.00	0.00
39	D05	Junction	768.84	775.40	768.84	776.16	225.00	31.73	771.96	0.00	3.44	0 00:00	0.00	0.00
40	D06	Junction	769.06	775.67	769.06	776.16	225.00	30.87	772.42	0.00	3.25	0 00:00	0.00	0.00
41	D07	Junction	769.37	774.54	769.37	774.54	0.00	30.07	772.92	0.00	1.62	0 00:00	0.00	0.00
42	D08	Junction	769.94	771.96	769.94	772.62	1945.00	30.97	773.59	0.00	0.91	0 00:00	0.00	0.00
43	D09	Junction	770.21	772.06	770.21	772.06	0.00	25.73	773.85	0.00	1.15	0 00:00	0.00	0.00
44	D10	Junction	770.99	772.16	770.99	772.16	0.00	27.89	773.99	0.00	0.00	0 12:00	1.74	13.00
45	D11	Junction	771.26	772.26	771.26	772.82	1945.00	26.30	774.35	0.00	1.15	0 00:00	0.00	0.00
46	D12	Junction	771.54	772.36	771.54	772.36	0.00	21.87	774.54	0.00	0.00	0 12:01	0.26	9.00
47	D13	Junction	771.79	776.05	771.79	776.99	4500.00	20.95	775.05	0.00	1.00	0 00:00	0.00	0.00
48	D14	Junction	772.17	775.76	772.17	776.84	3586.00	20.18	775.62	0.00	3.02	0 00:00	0.00	0.00
49	D15	Junction	772.34	776.79	772.34	777.40	223.00	17.40	775.93	0.00	2.37	0 00:00	0.00	0.00
50	D16	Junction	772.52	777.10	772.52	777.63	205.00	16.27	776.19	0.00	0.91	0 00:00	0.00	0.00
51	D17	Junction	772.79	776.75	772.79	778.07	4335.00	16.89	776.49	0.00	0.51	0 00:00	0.00	0.00
52	D18	Junction	773.77	772.45	773.77	773.27	1575.00	13.22	776.65	0.38	0.00	0 12:00	0.18	12.00
53	D19	Junction	774.05	772.55	774.05	773.27	1575.00	9.38	776.67	0.62	0.00	0 11:57	0.29	17.00
54	D20	Junction	774.32	772.65	774.32	773.37	1575.00	11.26	776.69	0.37	0.00	0 11:58	0.19	16.00
55	D21	Junction	774.60	772.75	774.60	772.75	0.00	9.98	776.60	0.00	0.00	0 12:03	1.32	11.00
56	D22	Junction	775.71	776.22	775.71	776.22	0.00	3.23	776.76	0.00	0.45	0 00:00	0.00	0.00
57	D23	Junction	776.26	776.70	776.26	776.70	0.00	2.56	777.11	0.00	0.65	0 00:00	0.00	0.00
58	D24	Junction	777.89	776.12	777.89	776.12	0.00	2.53	778.89	0.00	0.00	0 12:00	0.01	3.00
59	D25	Junction	779.33	776.44	779.33	776.44	0.00	1.20	779.99	0.00	0.34	0 00:00	0.00	0.00
60	D27	Junction	768.65	773.41	768.65	774.80	2500.00	36.10	771.22	0.00	2.19	0 00:00	0.00	0.00
61	D28	Junction	768.72	773.41	768.72	774.80	2500.00	35.36	771.78	0.00	2.14	0 00:00	0.00	0.00
62	D29	Junction	769.20	772.38	769.20	774.80	100300.00	34.59	772.58	0.00	2.42	0 00:00	0.00	0.00
63	D30	Junction	769.47	772.62	769.47	773.17	4064.00	27.96	772.93	0.31	0.00	0 11:59	0.36	18.00
64	D31	Junction	769.75	772.72	769.75	773.27	4064.00	26.51	773.23	0.00	1.77	0 00:00	0.00	0.00
65	D32	Junction	770.02	772.82	770.02	773.37	4064.00	25.41	773.40	0.38	0.00	0 11:53	0.44	23.00
66	D33	Junction	770.30	772.92	770.30	773.47	4064.00	24.02	773.54	0.00	1.46	0 00:00	0.00	0.00
67	D34	Junction	770.57	773.02	770.57	773.02	0.00	22.73	773.57	0.00	0.00	0 12:02	2.46	18.00
68	D35	Junction	771.20	773.46	771.20	773.70	200.00	20.04	773.93	0.23	0.00	0 11:52	0.02	21.00
69	D36	Junction	771.41	776.28	771.41	776.49	212.00	18.44	774.30	0.00	1.98	0 00:00	0.00	0.00
70	D37	Junction	771.49	776.22	771.49	776.49	241.00	16.34	774.45	0.00	3.20	0 00:00	0.00	0.00
71	D38	Junction	771.85	772.65	771.85	776.47	131026.00	16.01	774.65	0.00	1.35	0 00:00	0.00	0.00
72	D39	Junction	772.14	772.79	772.14	772.79	0.00	17.39	774.64	0.00	0.00	0 12:00	2.99	20.00
73	D40	Junction	772.92	772.89	772.92	773.44	3310.00	15.01	775.41	0.00	1.09	0 00:00	0.00	0.00
74	D41	Junction	773.19	772.99	773.19	773.54	3089.00	11.58	775.63	0.44	0.00	0 11:56	0.39	21.00
75	D42	Junction	773.47	773.09	773.47	773.64	3516.00	9.82	775.78	0.00	1.22	0 00:00	0.00	0.00
76	D43	Junction	773.74	773.19	773.74	773.19	0.00	8.17	775.74	0.00	0.00	0 12:01	1.10	13.00
77	D44	Junction	773.88	773.55	773.88	773.55	0.00	4.78	775.80	0.00	0.08	0 00:00	0.00	0.00
78	D45	Junction	775.52	776.40	775.52	777.27	7643.00	1.48	776.27	0.00	0.25	0 00:00	0.00	0.00
79	D46	Junction	774.93	776.01	774.93	776.01	0.00	4.34	776.11	0.00	0.32	0 00:00	0.00	0.00
80	D47	Junction	775.70	775.90	775.70	775.90	0.00	3.35	776.70	0.00	0.50	0 00:00	0.00	0.00
81	D48	Junction	776.08	774.35	776.08	774.35	0.00	2.44	776.99	0.00	0.34	0 00:00	0.00	0.00

Node Summary

SN	Element ID	Element Type	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Initial Water Elevation (ft)	Surcharge Elevation (ft)	Ponded Area (ft²)	Peak Inflow (cfs)	Max HGL Elevation Attained (ft)	Max Surcharge Depth Attained (ft)	Min Freeboard Attained (ft)	Time of Peak Flooding Occurrence (days hh:mm)	Total Flooded Volume (ac-in)	Total Time Flooded (min)
82	D49	Junction	776.63	774.35	776.63	774.35	0.00	1.63	777.43	0.00	0.20	0 00:00	0.00	0.00
83	D50	Junction	776.82	776.38	776.82	776.38	0.00	0.93	777.46	0.00	0.36	0 00:00	0.00	0.00
84	D51	Junction	778.29	776.85	778.29	776.85	0.00	1.05	778.88	0.00	0.41	0 00:00	0.00	0.00
85	D52	Junction	778.47	776.52	778.47	776.52	0.00	0.77	778.93	0.00	0.54	0 00:00	0.00	0.00
86	D53	Junction	776.89	775.58	776.89	775.58	0.00	0.93	777.29	0.00	1.10	0 00:00	0.00	0.00
87	D54	Junction	777.35	775.40	777.35	775.40	0.00	1.30	778.03	0.00	0.32	0 00:00	0.00	0.00
88	D55	Junction	778.32	775.39	778.32	775.39	0.00	1.17	778.97	0.00	0.35	0 00:00	0.00	0.00
89	D56	Junction	775.84	775.74	775.84	775.80	1000.00	0.43	776.14	0.00	0.70	0 00:00	0.00	0.00
90	D58	Junction	770.00	767.01	770.00	767.01	0.00	2.94	771.00	0.00	0.00	0 12:00	0.01	5.00
91	D60	Junction	768.75	773.70	768.75	773.70	0.00	43.64	773.70	0.00	0.00	0 07:35	0.63	4.00
92	D61	Junction	768.90	773.70	768.90	773.72	0.00	22.35	773.72	0.02	0.00	0 06:01	0.07	0.00
93	RD01	Junction	775.84	770.95	775.84	770.95	0.00	3.28	776.84	0.00	0.00	0 12:00	0.13	12.00
94	RD02	Junction	775.34	770.45	775.34	770.45	0.00	2.04	776.34	0.00	0.00	0 12:00	0.01	4.00
95	RD03	Junction	775.82	770.93	775.82	770.93	0.00	1.82	776.68	0.00	0.14	0 00:00	0.00	0.00
96	RD04	Junction	775.32	770.42	775.32	770.42	0.00	2.04	776.24	0.00	0.08	0 00:00	0.00	0.00
97	RD05	Junction	775.82	770.92	775.82	770.92	0.00	1.39	776.56	0.00	0.26	0 00:00	0.00	0.00
98	RD06	Junction	776.34	771.44	776.34	771.44	0.00	1.27	777.06	0.00	0.28	0 00:00	0.00	0.00
99	RD07	Junction	775.80	770.91	775.80	770.91	0.00	1.79	776.73	0.00	0.07	0 00:00	0.00	0.00
100	RD08	Junction	776.30	771.41	776.30	771.41	0.00	1.95	777.30	0.00	0.00	0 12:00	0.00	3.00
101	RD09	Junction	776.82	771.93	776.82	771.93	0.00	2.26	777.82	0.00	0.00	0 12:00	0.01	3.00
102	RD10	Junction	776.01	771.12	776.01	771.12	0.00	2.26	777.01	0.00	0.00	0 12:00	0.01	3.00
103	RD11	Junction	775.49	770.60	775.49	770.60	0.00	1.95	776.49	0.00	0.00	0 12:00	0.00	3.00
104	RD12	Junction	774.99	770.10	774.99	770.10	0.00	1.79	775.92	0.00	0.07	0 00:00	0.00	0.00
105	RD13	Junction	775.98	771.09	775.98	771.09	0.00	1.39	776.74	0.00	0.24	0 00:00	0.00	0.00
106	RD14	Junction	775.46	770.56	775.46	770.56	0.00	1.39	776.23	0.00	0.23	0 00:00	0.00	0.00
107	RD15	Junction	774.96	770.07	774.96	770.07	0.00	2.04	775.88	0.00	0.08	0 00:00	0.00	0.00
108	RD16	Junction	775.97	771.08	775.97	771.08	0.00	1.82	776.89	0.00	0.08	0 00:00	0.00	0.00
109	RD17	Junction	775.45	770.55	775.45	770.55	0.00	2.04	776.45	0.00	0.00	0 12:00	0.00	1.00
110	RD18	Junction	774.95	770.06	774.95	770.06	0.00	3.28	775.95	0.00	0.00	0 12:00	0.10	10.00
111	RD19	Junction	776.97	772.08	776.97	772.08	0.00	3.28	777.97	0.00	0.00	0 12:00	0.10	10.00
112	RD20	Junction	777.47	772.57	777.47	772.57	0.00	2.04	778.47	0.00	0.00	0 12:00	0.00	1.00
113	RD21	Junction	777.99	773.10	777.99	773.10	0.00	1.82	778.91	0.00	0.08	0 00:00	0.00	0.00
114	RD22	Junction	776.37	771.47	776.37	771.47	0.00	2.04	777.29	0.00	0.08	0 00:00	0.00	0.00
115	RD23	Junction	776.87	771.97	776.87	771.97	0.00	1.39	777.64	0.00	0.23	0 00:00	0.00	0.00
116	RD24	Junction	777.39	772.49	777.39	772.49	0.00	1.39	778.15	0.00	0.24	0 00:00	0.00	0.00
117	RD25	Junction	776.75	771.85	776.75	771.85	0.00	1.79	777.68	0.00	0.07	0 00:00	0.00	0.00
118	RD26	Junction	777.25	772.35	777.25	772.35	0.00	1.95	778.25	0.00	0.00	0 12:00	0.00	3.00
119	RD27	Junction	777.77	772.87	777.77	772.87	0.00	2.26	778.77	0.00	0.00	0 12:00	0.01	3.00
120	RD29	Junction	778.20	773.31	778.20	773.31	0.00	2.26	779.20	0.00	0.00	0 12:00	0.01	3.00
121	RD30	Junction	777.68	772.79	777.68	772.79	0.00	1.95	778.68	0.00	0.00	0 12:00	0.00	3.00
122	RD31	Junction	777.18	772.29	777.18	772.29	0.00	1.79	778.11	0.00	0.07	0 00:00	0.00	0.00
123	RD32	Junction	777.73	772.83	777.73	772.83	0.00	1.39	778.49	0.00	0.24	0 00:00	0.00	0.00
124	RD33	Junction	777.21	772.31	777.21	772.31	0.00	1.39	777.97	0.00	0.24	0 00:00	0.00	0.00
125	RD34	Junction	776.71	771.81	776.71	771.81	0.00	2.04	777.63	0.00	0.08	0 00:00	0.00	0.00
126	RD35	Junction	777.27	772.38	777.27	772.38	0.00	1.82	778.19	0.00	0.08	0 00:00	0.00	0.00
127	RD36	Junction	776.75	771.86	776.75	771.86	0.00	2.04	777.75	0.00	0.00	0 12:00	0.00	1.00
128	RD37	Junction	773.25	771.36	773.25	771.36	0.00	3.28	777.25	0.00	0.00	0 12:00	0.10	10.00
129	D01	Outfall	764.40					7.84	764.40					
130	POND	Storage Node	768.00	772.00	768.00		100290.00	79.14	770.89				0.00	0.00

Link Summary

SN	Element ID	Element Type	From (Inlet) Node	To (Outlet) Node	Length (ft)	Inlet Invert Elevation (ft)	Outlet Invert Elevation (ft)	Average Slope (%)	Diameter or Height (in)	Manning's Roughness	Peak Flow (cfs)	Peak Flow Velocity (ft/sec)	Peak Flow Depth (ft)	Total Time Surcharged (min)
1	Link-01	Pipe	D60	POND	49.90	771.00	767.00	8.0200	12.000	0.0150	33.39	50.00	0.79	0.00
2	Link-02	Pipe	D61	D60	30.20	768.90	768.75	0.5000	12.000	0.0150	43.60	50.00	1.00	912.00
3	Link-03	Pipe	D02	D01	54.17	767.94	767.40	1.0000	24.000	0.0150	7.84	5.22	0.97	0.00
4	P(100)	Pipe	(113)	(112)	49.86	776.95	776.45	1.0000	15.000	0.0120	3.82	3.27	1.17	0.00
5	P(101)	Pipe	(114)	(113)	52.12	777.72	777.20	1.0000	12.000	0.0120	2.04	2.91	0.94	0.00
6	P(102)	Pipe	RD27	(114)	5.00	777.77	777.72	1.0000	12.000	0.0120	2.05	2.65	0.96	0.00
7	P(103)	Pipe	RD26	(113)	5.00	777.25	777.20	1.0000	12.000	0.0120	1.80	2.77	0.98	0.00
8	P(104)	Pipe	RD25	(112)	5.00	776.75	776.70	1.0000	12.000	0.0120	1.79	2.94	0.91	0.00
9	P(105)	Pipe	(119)	D29	90.03	774.40	773.50	1.0000	18.000	0.0120	5.83	4.25	1.09	0.00
10	P(106)	Pipe	(120)	(119)	49.86	775.15	774.65	1.0000	15.000	0.0120	3.74	3.13	1.17	0.00
11	P(107)	Pipe	(121)	(120)	52.12	775.92	775.40	1.0000	12.000	0.0120	1.80	2.74	0.89	0.00
12	P(108)	Pipe	RD16	(121)	5.00	775.97	775.92	1.0000	12.000	0.0120	1.81	2.46	0.89	0.00
13	P(109)	Pipe	RD17	(120)	5.00	775.45	775.40	1.0000	12.000	0.0120	1.98	2.86	0.97	0.00
14	P(110)	Pipe	RD18	(119)	5.00	774.95	774.90	1.0000	12.000	0.0120	2.29	3.16	0.96	0.00
15	P(111)	Pipe	(125)	D31	91.03	774.41	773.50	1.0000	18.000	0.0120	4.72	3.98	0.94	0.00
16	P(112)	Pipe	(126)	(125)	49.86	775.16	774.66	1.0000	15.000	0.0120	2.73	3.11	0.97	0.00
17	P(113)	Pipe	(127)	(126)	52.12	775.93	775.41	1.0000	12.000	0.0120	1.37	2.79	0.72	0.00
18	P(114)	Pipe	RD13	(127)	5.00	775.98	775.93	1.0000	12.000	0.0120	1.38	2.26	0.74	0.00
19	P(115)	Pipe	RD14	(126)	5.00	775.46	775.41	1.0000	12.000	0.0120	1.38	2.81	0.74	0.00
20	P(116)	Pipe	RD15	(125)	5.00	774.96	774.91	1.0000	12.000	0.0120	2.03	2.95	0.82	0.00
21	P(117)	Pipe	(131)	D33	94.06	774.44	773.50	1.0000	18.000	0.0120	5.59	4.18	1.06	0.00
22	P(118)	Pipe	(132)	(131)	49.86	775.19	774.69	1.0000	15.000	0.0120	3.82	3.28	1.17	0.00
23	P(119)	Pipe	(133)	(132)	52.12	775.96	775.44	1.0000	12.000	0.0120	2.04	2.91	0.94	0.00
24	P(120)	Pipe	RD10	(133)	5.00	776.01	775.96	1.0000	12.000	0.0120	2.05	2.65	0.96	0.00
25	P(121)	Pipe	RD11	(132)	5.00	775.49	775.44	1.0000	12.000	0.0120	1.80	2.77	0.98	0.00
26	P(122)	Pipe	RD12	(131)	5.00	774.99	774.94	1.0000	12.000	0.0120	1.79	2.94	0.90	0.00
27	P(123)	Pipe	(137)	D38	120.37	775.70	774.50	1.0000	18.000	0.0120	5.83	4.25	1.09	0.00
28	P(124)	Pipe	(138)	(137)	49.86	776.45	775.95	1.0000	15.000	0.0120	3.74	3.13	1.17	0.00
29	P(125)	Pipe	(139)	(138)	52.12	777.22	776.70	1.0000	12.000	0.0120	1.80	2.74	0.89	0.00
30	P(126)	Pipe	RD35	(139)	5.00	777.27	777.22	1.0000	12.000	0.0120	1.81	2.46	0.89	0.00
31	P(127)	Pipe	RD36	(138)	5.00	776.75	776.70	1.0000	12.000	0.0120	1.98	2.86	0.97	0.00
32	P(128)	Pipe	RD37	(137)	5.00	776.25	776.20	1.0000	12.000	0.0120	2.29	3.16	0.96	0.00
33	P(129)	Pipe	(143)	D40	115.56	776.16	775.00	1.0000	18.000	0.0120	4.71	3.98	0.94	0.00
34	P(130)	Pipe	(144)	(143)	49.86	776.90	776.41	0.9800	15.000	0.0120	2.73	3.11	0.97	0.00
35	P(131)	Pipe	(145)	(144)	52.12	777.68	777.16	1.0000	12.000	0.0120	1.37	2.79	0.71	0.00
36	P(132)	Pipe	RD32	(145)	5.00	777.73	777.68	1.0000	12.000	0.0120	1.38	2.26	0.74	0.00
37	P(133)	Pipe	RD33	(144)	5.03	777.21	777.16	0.9900	12.000	0.0120	1.38	2.81	0.73	0.00
38	P(134)	Pipe	RD34	(143)	5.00	776.71	776.66	1.0000	12.000	0.0120	2.03	2.96	0.82	0.00
39	P(135)	Pipe	(149)	D42	113.42	776.63	775.50	1.0000	18.000	0.0120	5.58	4.18	1.06	0.00
40	P(136)	Pipe	(150)	(149)	49.86	777.38	776.88	1.0000	15.000	0.0120	3.82	3.27	1.16	0.00
41	P(137)	Pipe	(151)	(150)	52.12	778.15	777.63	1.0000	12.000	0.0120	2.04	2.91	0.94	0.00
42	P(138)	Pipe	RD29	(151)	5.00	778.20	778.15	1.0000	12.000	0.0120	2.05	2.65	0.96	0.00
43	P(139)	Pipe	RD30	(150)	5.00	777.68	777.63	1.0000	12.000	0.0120	1.80	2.77	0.98	0.00
44	P(140)	Pipe	RD31	(149)	5.00	777.18	777.13	1.0000	12.000	0.0120	1.79	2.94	0.90	0.00
45	P(15)	Pipe	D58	POND	58.56	770.00	768.50	2.5600	12.000	0.0120	2.95	3.76	1.00	5.00
46	P(16)	Pipe	D07	D06	123.16	769.37	769.06	0.2500	36.000	0.0120	30.06	4.25	3.00	16.00
47	P(16) (1)	Pipe	D08	D07	226.84	769.94	769.37	0.2500	36.000	0.0120	30.07	4.25	3.00	17.00
48	P(17)	Pipe	D09	D08	110.00	770.21	769.94	0.2500	36.000	0.0120	25.67	3.63	3.00	17.00
49	P(18)	Pipe	D10	D09	110.00	770.99	770.21	0.7100	36.000	0.0120	22.90	3.44	3.00	13.00
50	P(19)	Pipe	D11	D10	110.00	771.26	770.99	0.2500	36.000	0.0120	26.30	3.72	3.00	12.00
51	P(20)	Pipe	D12	D11	110.00	771.54	771.26	0.2500	36.000	0.0120	20.33	3.23	3.00	9.00
52	P(23)	Pipe	D18	D17	192.59	773.77	773.29	0.2500	30.000	0.0120	13.17	3.80	2.50	12.00
53	P(24)	Pipe	D19	D18	110.00	774.05	773.77	0.2500	24.000	0.0120	10.86	3.47	2.00	16.00
54	P(25)	Pipe	D20	D19	110.00	774.32	774.05	0.2500	24.000	0.0120	8.11	2.79	2.00	16.00
55	P(26)	Pipe	D21	D20	110.00	774.60	774.32	0.2500	24.000	0.0120	4.86	1.62	2.00	11.00
56	P(27)	Pipe	D22	D21	121.80	775.71	775.10	0.5000	18.000	0.0120	3.38	2.89	1.27	0.00
57	P(28)	Pipe	D23	D22	110.16	776.26	775.71	0.5000	18.000	0.0120	2.56	2.46	0.94	0.00
58	P(29)	Pipe	D24	D23	113.60	777.89	776.76	0.9900	12.000	0.0120	2.29	3.49	0.78	0.00
59	P(30)	Pipe	D25	D24	144.00	779.33	777.89	1.0000	12.000	0.0120	1.18	1.70	0.83	0.00
60	P(31)	Pipe	D27	POND	58.17	768.65	768.50	0.2600	48.000	0.0120	36.09	5.16	2.32	0.00
61	P(32)	Pipe	D28	D27	30.00	768.72	768.65	0.2300	36.000	0.0120	35.36	5.17	2.78	0.00
62	P(33)	Pipe	D29	D28	191.79	769.20	768.72	0.2500	36.000	0.0120	34.50	4.88	3.00	8.00
63	P(34)	Pipe	D30	D29	110.00	769.47	769.20	0.2500	36.000	0.0120	28.73	4.06	3.00	19.00
64	P(35)	Pipe	D31	D30	110.00	769.75	769.47	0.2500	36.000	0.0120	26.69	3.80	3.00	21.00
65	P(36)	Pipe	D32	D31	110.00	770.02	769.75	0.2500	36.000	0.0120	25.23	3.57	3.00	22.00
66	P(37)	Pipe	D33	D32	110.00	770.30	770.02	0.2500	36.000	0.0120	23.95	3.39	3.00	21.00
67	P(38)	Pipe	D34	D33	110.00	770.57	770.30	0.2500	36.000	0.0120	19.26	2.84	3.00	18.00
68	P(39)	Pipe	D35	D34	50.09	771.20	771.07	0.2600	30.000	0.0120	20.05	4.08	2.50	18.00
69	P(39) (1)	Pipe	D36	D35	84.79	771.41	771.20	0.2500	30.000	0.0120	18.41	3.75	2.50	21.00
70	P(40)	Pipe	D37	D36	30.63	771.49	771.41	0.2600	30.000	0.0120	15.84	3.23	2.50	22.00
71	P(41)	Pipe	D38	D37	145.53	771.85	771.49	0.2500	30.000	0.0120	15.45	3.15	2.50	22.00
72	P(42)	Pipe	D39	D38	115.67	772.14	771.85	0.2500	30.000	0.0120	11.45	2.35	2.50	20.00
73	P(43)	Pipe	D40	D39	110.00	772.92	772.64	0.2500	24.000	0.0120	15.00	4.78	2.00	20.00
74	P(44)	Pipe	D41	D40	110.00	773.19	772.92	0.2500	24.000	0.0120	9.71	3.09	2.00	21.00
75	P(45)	Pipe	D42	D41	110.00	773.47	773.19	0.2500	24.000	0.0120	9.75	3.10	2.00	18.00
76	P(46)	Pipe	D43	D42	110.00	773.74	773.47	0.2500	24.000	0.0120	4.18	1.68	2.00	13.00
77	P(47)	Pipe	D44	D43	55.00	773.88	773.74	0.2500	24.000	0.0120	4.81	1.61	1.96	0.00
78	P(48)	Pipe	D45	D44	255.74	775.52	774.88	0.2500	12.000	0.0120	1.44	2.32	0.83	0.00
79	P(49)	Pipe	D13	D12	100.80	771.79	771.54	0.2500	30.000	0.0120	20.95	4.27	2.50	16.00
80	P(50)	Pipe	D14	D13	152.05	772.17	771.79	0.2500	30.000	0.0120	20.19	4.11	2.50	17.00
81	P(51)	Pipe	D53	D14	108.00	776.89	775.81	1.0000	18.000	0.0120	0.90	2.94	0.34	0.00

Link Summary

SN	Element ID	Element Type	From (Inlet) Node	To (Outlet) Node	Length	Inlet Invert Elevation	Outlet Invert Elevation	Average Slope	Diameter or Height	Manning's Roughness	Peak Flow	Peak Flow Velocity	Peak Flow Depth	Total Time Surcharged
					(ft)	(ft)	(ft)	(%)	(in)		(cfs)	(ft/sec)	(ft)	(min)
82	P(53)	Pipe	D16	D15	70.60	772.52	772.34	0.2500	30.000	0.0120	16.27	3.31	2.50	18.00
83	P(54)	Pipe	D52	D15	117.00	778.47	777.30	1.0000	12.000	0.0120	0.78	2.94	0.36	0.00
84	P(55)	Pipe	D51	D37	163.40	778.29	776.65	1.0000	12.000	0.0120	1.00	2.94	0.46	0.00
85	P(56)	Pipe	D46	D36	161.45	774.93	773.31	1.0000	18.000	0.0120	4.29	3.50	1.07	0.00
86	P(57)	Pipe	D47	D46	76.76	775.70	774.93	1.0000	18.000	0.0120	3.34	2.48	1.07	0.00
87	P(58)	Pipe	D48	D47	13.14	776.08	775.95	0.9900	15.000	0.0120	2.44	3.26	0.82	0.00
88	P(59)	Pipe	D49	D48	29.92	776.63	776.33	1.0000	12.000	0.0120	1.62	2.94	0.73	0.00
89	P(60)	Pipe	D50	D49	13.28	776.82	776.63	1.4300	12.000	0.0120	0.92	1.66	0.72	0.00
90	P(61)	Pipe	D04	POND	52.97	768.63	768.50	0.2500	36.000	0.0120	33.47	5.59	2.37	0.00
91	P(62)	Pipe	D05	D04	82.14	768.83	768.63	0.2400	36.000	0.0120	31.73	4.52	2.93	0.00
92	P(63)	Pipe	D06	D05	90.00	769.05	768.83	0.2400	36.000	0.0120	30.87	4.37	3.00	12.00
93	P(64)	Pipe	D17	D16	108.60	772.79	772.52	0.2500	30.000	0.0120	16.07	3.27	2.50	19.00
94	P(65)	Pipe	D55	D14	67.82	778.32	777.64	1.0000	12.000	0.0120	1.15	2.94	0.51	0.00
95	P(66)	Pipe	D54	D04	82.14	777.35	775.71	2.0000	12.000	0.0120	1.27	3.26	0.50	0.00
96	P(67)	Pipe	D56	D28	46.08	773.84	772.92	2.0000	12.000	0.0120	0.43	3.32	0.22	0.00
97	P(68)	Pipe	D15	D14	69.52	772.34	772.17	0.2400	30.000	0.0120	17.41	3.55	2.50	17.00
98	P(69)	Pipe	(81)	D08	127.13	774.27	773.00	1.0000	18.000	0.0120	5.61	4.19	1.06	0.00
99	P(70)	Pipe	(82)	(81)	52.12	775.04	774.52	1.0000	15.000	0.0120	3.82	3.28	1.17	0.00
100	P(71)	Pipe	(83)	(82)	49.86	775.79	775.29	1.0000	12.000	0.0120	2.04	2.94	0.94	0.00
101	P(72)	Pipe	RD01	(83)	5.00	775.84	775.79	1.0000	12.000	0.0120	2.05	2.64	0.96	0.00
102	P(73)	Pipe	RD02	(82)	5.00	775.34	775.29	1.0000	12.000	0.0120	1.80	2.64	0.98	0.00
103	P(74)	Pipe	RD03	(81)	5.00	775.82	775.77	1.0000	12.000	0.0120	1.82	3.23	0.67	0.00
104	P(75)	Pipe	(87)	D09	126.56	774.77	773.50	1.0000	18.000	0.0120	4.56	3.92	0.92	0.00
105	P(76)	Pipe	(88)	(87)	49.86	775.51	775.02	0.9800	15.000	0.0120	2.61	3.10	0.94	0.00
106	P(77)	Pipe	(89)	(88)	52.12	776.29	775.77	1.0000	12.000	0.0120	1.25	2.75	0.68	0.00
107	P(78)	Pipe	RD06	(89)	5.00	776.34	776.29	1.0000	12.000	0.0120	1.26	2.27	0.70	0.00
108	P(79)	Pipe	RD05	(88)	5.00	775.82	775.77	1.0000	12.000	0.0120	1.38	2.85	0.71	0.00
109	P(80)	Pipe	RD04	(87)	5.00	775.32	775.27	1.0000	12.000	0.0120	2.03	3.00	0.81	0.00
110	P(81)	Pipe	(94)	D11	125.15	775.25	774.00	1.0000	18.000	0.0120	5.58	4.18	1.06	0.00
111	P(82)	Pipe	(95)	(94)	49.86	776.00	775.50	1.0000	15.000	0.0120	3.82	3.28	1.16	0.00
112	P(83)	Pipe	(96)	(95)	52.12	776.77	776.25	1.0000	12.000	0.0120	2.04	2.91	0.94	0.00
113	P(84)	Pipe	RD09	(96)	5.00	776.82	776.77	1.0000	12.000	0.0120	2.05	2.65	0.96	0.00
114	P(85)	Pipe	RD08	(95)	5.00	776.30	776.25	1.0000	12.000	0.0120	1.80	2.77	0.98	0.00
115	P(86)	Pipe	RD07	(94)	5.00	775.80	775.75	1.0000	12.000	0.0120	1.79	2.94	0.90	0.00
116	P(87)	Pipe	(100)	D17	92.04	776.42	775.50	1.0000	18.000	0.0120	5.83	4.24	1.15	0.00
117	P(88)	Pipe	(101)	(100)	49.86	777.17	776.67	1.0000	15.000	0.0120	3.74	3.13	1.17	0.00
118	P(89)	Pipe	(102)	(101)	52.12	777.94	777.42	1.0000	12.000	0.0120	1.80	2.74	0.89	0.00
119	P(90)	Pipe	RD21	(102)	5.00	777.99	777.94	1.0000	12.000	0.0120	1.81	2.46	0.89	0.00
120	P(91)	Pipe	RD20	(101)	5.00	777.47	777.42	1.0000	12.000	0.0120	1.98	2.86	0.97	0.00
121	P(92)	Pipe	RD19	(100)	5.00	776.97	776.92	1.0000	12.000	0.0120	2.29	3.16	0.96	0.00
122	P(93)	Pipe	(106)	D18	154.50	775.82	774.27	1.0000	18.000	0.0120	4.73	3.07	1.36	0.00
123	P(94)	Pipe	(107)	(106)	49.86	776.57	776.07	1.0000	15.000	0.0120	2.73	3.11	0.97	0.00
124	P(95)	Pipe	(108)	(107)	52.12	777.34	776.82	1.0000	12.000	0.0120	1.37	2.79	0.72	0.00
125	P(96)	Pipe	RD24	(108)	5.00	777.39	777.34	1.0000	12.000	0.0120	1.38	2.26	0.74	0.00
126	P(97)	Pipe	RD23	(107)	5.00	776.87	776.82	1.0000	12.000	0.0120	1.38	2.81	0.74	0.00
127	P(98)	Pipe	RD22	(106)	5.00	776.37	776.32	1.0000	12.000	0.0120	2.03	2.94	0.82	0.00
128	P(99)	Pipe	(112)	D20	137.40	776.20	774.82	1.0000	18.000	0.0120	5.60	3.47	1.44	0.00
129	Orifice-WQv	Orifice	POND	D02		768.00	767.94		6.100		1.47			
130	Weir-RIM	Weir	POND	D02		768.00	767.94				6.46			
131	Weir-Spillway	Weir	POND	D02		768.00	767.94				0.00			

Junction Input

SN	Element ID	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Surcharge Elevation (ft)	Surcharge Depth (ft)	Ponded Area (ft²)	Minimum Pipe Cover (in)
1	(100)	776.42	772.06	-4.36	772.06	0.00	0.00	0.00
2	(101)	777.17	772.54	-4.63	772.54	0.00	0.00	0.00
3	(102)	777.94	773.05	-4.89	773.05	0.00	0.00	0.00
4	(106)	775.82	771.46	-4.36	771.46	0.00	0.00	0.00
5	(107)	776.57	771.94	-4.63	771.94	0.00	0.00	0.00
6	(108)	777.34	772.44	-4.90	772.44	0.00	0.00	0.00
7	(112)	776.20	771.84	-4.36	771.84	0.00	0.00	0.00
8	(113)	776.95	772.32	-4.63	772.32	0.00	0.00	0.00
9	(114)	777.72	772.82	-4.90	772.82	0.00	0.00	0.00
10	(119)	774.40	770.04	-4.36	770.04	0.00	0.00	0.00
11	(120)	775.15	770.52	-4.63	770.52	0.00	0.00	0.00
12	(121)	775.92	771.03	-4.89	771.03	0.00	0.00	0.00
13	(125)	774.41	770.05	-4.36	770.05	0.00	0.00	0.00
14	(126)	775.16	770.53	-4.63	770.53	0.00	0.00	0.00
15	(127)	775.93	771.04	-4.89	771.04	0.00	0.00	0.00
16	(131)	774.44	770.08	-4.36	770.08	0.00	0.00	0.00
17	(132)	775.19	770.56	-4.63	770.56	0.00	0.00	0.00
18	(133)	775.96	771.07	-4.89	771.07	0.00	0.00	0.00
19	(137)	775.70	771.35	-4.35	771.35	0.00	0.00	0.00
20	(138)	776.45	771.82	-4.63	771.82	0.00	0.00	0.00
21	(139)	777.22	772.33	-4.89	772.33	0.00	0.00	0.00
22	(143)	776.16	771.80	-4.36	771.80	0.00	0.00	0.00
23	(144)	776.90	772.28	-4.62	772.28	0.00	0.00	0.00
24	(145)	777.68	772.78	-4.90	772.78	0.00	0.00	0.00
25	(149)	776.63	772.28	-4.35	772.28	0.00	0.00	0.00
26	(150)	777.38	772.75	-4.63	772.75	0.00	0.00	0.00
27	(151)	778.15	773.26	-4.89	773.26	0.00	0.00	0.00
28	(81)	774.27	770.95	-3.32	770.95	0.00	0.00	0.00
29	(82)	775.04	770.41	-4.63	770.41	0.00	0.00	0.00
30	(83)	775.79	770.90	-4.89	770.90	0.00	0.00	0.00
31	(87)	774.77	770.41	-4.36	770.41	0.00	0.00	0.00
32	(88)	775.51	770.89	-4.62	770.89	0.00	0.00	0.00
33	(89)	776.29	771.39	-4.90	771.39	0.00	0.00	0.00
34	(94)	775.25	770.90	-4.35	770.90	0.00	0.00	0.00
35	(95)	776.00	771.37	-4.63	771.37	0.00	0.00	0.00
36	(96)	776.77	771.88	-4.89	771.88	0.00	0.00	0.00
37	D02	767.94	771.00	3.06	771.00	0.00	0.00	0.00
38	D04	768.63	774.75	6.12	774.75	0.00	0.00	0.00
39	D05	768.84	775.40	6.56	776.16	0.76	225.00	42.89
40	D06	769.06	775.67	6.61	776.16	0.49	225.00	43.37
41	D07	769.37	774.54	5.17	774.54	0.00	0.00	26.01
42	D08	769.94	771.96	2.02	772.62	0.66	1945.00	0.00
43	D09	770.21	772.06	1.85	772.06	0.00	0.00	0.00
44	D10	770.99	772.16	1.17	772.16	0.00	0.00	0.00
45	D11	771.26	772.26	1.00	772.82	0.56	1945.00	0.00
46	D12	771.54	772.36	0.82	772.36	0.00	0.00	0.00
47	D13	771.79	776.05	4.26	776.99	0.95	4500.00	21.06
48	D14	772.17	775.76	3.59	776.84	1.08	3586.00	0.00
49	D15	772.34	776.79	4.45	777.40	0.61	223.00	0.00
50	D16	772.52	777.10	4.58	777.63	0.53	205.00	25.01
51	D17	772.79	776.75	3.96	778.07	1.32	4335.00	0.00
52	D18	773.77	772.45	-1.32	773.27	0.82	1575.00	0.00
53	D19	774.05	772.55	-1.50	773.27	0.72	1575.00	0.00
54	D20	774.32	772.65	-1.67	773.37	0.72	1575.00	0.00
55	D21	774.60	772.75	-1.85	772.75	0.00	0.00	0.00
56	D22	775.71	776.22	0.51	776.22	0.00	0.00	0.00
57	D23	776.26	776.70	0.44	776.70	0.00	0.00	0.00
58	D24	777.89	776.12	-1.77	776.12	0.00	0.00	0.00
59	D25	779.33	776.44	-2.89	776.44	0.00	0.00	0.00
60	D27	768.65	773.41	4.76	774.80	1.39	2500.00	9.12
61	D28	768.72	773.41	4.69	774.80	1.39	2500.00	0.00
62	D29	769.20	772.38	3.18	774.80	2.42	100300.00	0.00
63	D30	769.47	772.62	3.15	773.17	0.55	4064.00	1.76
64	D31	769.75	772.72	2.97	773.27	0.55	4064.00	0.00
65	D32	770.02	772.82	2.80	773.37	0.55	4064.00	0.00
66	D33	770.30	772.92	2.62	773.47	0.55	4064.00	0.00
67	D34	770.57	773.02	2.45	773.02	0.00	0.00	0.00
68	D35	771.20	773.46	2.26	773.70	0.24	200.00	0.00
69	D36	771.41	776.28	4.87	776.49	0.21	212.00	17.64
70	D37	771.49	776.22	4.73	776.49	0.27	241.00	0.00
71	D38	771.85	772.65	0.80	776.47	3.82	131026.00	0.00
72	D39	772.14	772.79	0.65	772.79	0.00	0.00	0.00
73	D40	772.92	772.89	-0.03	773.44	0.55	3310.00	0.00
74	D41	773.19	772.99	-0.20	773.54	0.55	3089.00	0.00
75	D42	773.47	773.09	-0.38	773.64	0.55	3516.00	0.00
76	D43	773.74	773.19	-0.55	773.19	0.00	0.00	0.00
77	D44	773.88	773.55	-0.33	773.55	0.00	0.00	0.00
78	D45	775.52	776.40	0.88	777.27	0.87	7643.00	0.00
79	D46	774.93	776.01	1.08	776.01	0.00	0.00	0.00
80	D47	775.70	775.90	0.20	775.90	0.00	0.00	0.00
81	D48	776.08	774.35	-1.73	774.35	0.00	0.00	0.00
82	D49	776.63	774.35	-2.28	774.35	0.00	0.00	0.00

Junction Input

SN	Element ID	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Surcharge Elevation (ft)	Surcharge Depth (ft)	Ponded Area (ft²)	Minimum Pipe Cover (in)
83	D50	776.82	776.38	-0.44	776.38	0.00	0.00	0.00
84	D51	778.29	776.85	-1.44	776.85	0.00	0.00	0.00
85	D52	778.47	776.52	-1.96	776.52	0.00	0.00	0.00
86	D53	776.89	775.58	-1.31	775.58	0.00	0.00	0.00
87	D54	777.35	775.40	-1.95	775.40	0.00	0.00	0.00
88	D55	778.32	775.39	-2.93	775.39	0.00	0.00	0.00
89	D56	775.84	775.74	-0.10	775.80	0.06	1000.00	10.76
90	D58	770.00	767.01	-2.99	767.01	0.00	0.00	0.00
91	D60	768.75	773.70	4.95	773.70	0.00	0.00	20.40
92	D61	768.90	773.70	4.80	773.72	0.02	0.00	45.60
93	RD01	775.84	770.95	-4.89	770.95	0.00	0.00	0.00
94	RD02	775.34	770.45	-4.89	770.45	0.00	0.00	0.00
95	RD03	775.82	770.93	-4.89	770.93	0.00	0.00	0.00
96	RD04	775.32	770.42	-4.90	770.42	0.00	0.00	0.00
97	RD05	775.82	770.92	-4.90	770.92	0.00	0.00	0.00
98	RD06	776.34	771.44	-4.90	771.44	0.00	0.00	0.00
99	RD07	775.80	770.91	-4.89	770.91	0.00	0.00	0.00
100	RD08	776.30	771.41	-4.89	771.41	0.00	0.00	0.00
101	RD09	776.82	771.93	-4.89	771.93	0.00	0.00	0.00
102	RD10	776.01	771.12	-4.89	771.12	0.00	0.00	0.00
103	RD11	775.49	770.60	-4.90	770.60	0.00	0.00	0.00
104	RD12	774.99	770.10	-4.89	770.10	0.00	0.00	0.00
105	RD13	775.98	771.09	-4.90	771.09	0.00	0.00	0.00
106	RD14	775.46	770.56	-4.90	770.56	0.00	0.00	0.00
107	RD15	774.96	770.07	-4.90	770.07	0.00	0.00	0.00
108	RD16	775.97	771.08	-4.90	771.08	0.00	0.00	0.00
109	RD17	775.45	770.55	-4.90	770.55	0.00	0.00	0.00
110	RD18	774.95	770.06	-4.90	770.06	0.00	0.00	0.00
111	RD19	776.97	772.08	-4.90	772.08	0.00	0.00	0.00
112	RD20	777.47	772.57	-4.90	772.57	0.00	0.00	0.00
113	RD21	777.99	773.10	-4.90	773.10	0.00	0.00	0.00
114	RD22	776.37	771.47	-4.90	771.47	0.00	0.00	0.00
115	RD23	776.87	771.97	-4.90	771.97	0.00	0.00	0.00
116	RD24	777.39	772.49	-4.90	772.49	0.00	0.00	0.00
117	RD25	776.75	771.85	-4.90	771.85	0.00	0.00	0.00
118	RD26	777.25	772.35	-4.90	772.35	0.00	0.00	0.00
119	RD27	777.77	772.87	-4.90	772.87	0.00	0.00	0.00
120	RD29	778.20	773.31	-4.89	773.31	0.00	0.00	0.00
121	RD30	777.68	772.79	-4.89	772.79	0.00	0.00	0.00
122	RD31	777.18	772.29	-4.89	772.29	0.00	0.00	0.00
123	RD32	777.73	772.83	-4.90	772.83	0.00	0.00	0.00
124	RD33	777.21	772.31	-4.90	772.31	0.00	0.00	0.00
125	RD34	776.71	771.81	-4.90	771.81	0.00	0.00	0.00
126	RD35	777.27	772.38	-4.89	772.38	0.00	0.00	0.00
127	RD36	776.75	771.86	-4.89	771.86	0.00	0.00	0.00
128	RD37	773.25	771.36	-1.89	771.36	0.00	0.00	0.00

Junction Results

SN	Element ID	Peak Inflow (cfs)	Peak Lateral Inflow (cfs)	Max HGL Elevation Attained (ft)	Max HGL Depth Attained (ft)	Max Surcharge Depth Attained (ft)	Min Freeboard Attained (ft)	Average HGL Elevation Attained (ft)	Average HGL Depth Attained (ft)	Time of Max HGL Occurrence (days hh:mm)	Time of Peak Flooding Occurrence (days hh:mm)	Total Flooded Volume (ac-in)	Total Time Flooded (min)
1	(100)	5.83	0.00	777.83	1.41	0.00	0.09	776.81	0.39	0 12:00	0 00:00	0.00	0.00
2	(101)	3.74	0.00	778.36	1.19	0.00	0.06	777.47	0.30	0 12:00	0 00:00	0.00	0.00
3	(102)	1.81	0.00	778.80	0.86	0.00	0.14	778.16	0.22	0 12:00	0 00:00	0.00	0.00
4	(106)	4.75	0.00	777.06	1.24	0.00	0.26	776.14	0.32	0 12:00	0 00:00	0.00	0.00
5	(107)	2.75	0.00	777.55	0.98	0.00	0.27	776.83	0.26	0 12:00	0 00:00	0.00	0.00
6	(108)	1.38	0.00	778.06	0.72	0.00	0.28	777.53	0.19	0 12:00	0 00:00	0.00	0.00
7	(112)	5.61	0.00	777.58	1.38	0.00	0.12	776.56	0.36	0 12:00	0 00:00	0.00	0.00
8	(113)	3.84	0.00	778.16	1.21	0.00	0.04	777.27	0.32	0 11:59	0 00:00	0.00	0.00
9	(114)	2.05	0.00	778.64	0.92	0.00	0.08	777.97	0.25	0 11:58	0 00:00	0.00	0.00
10	(119)	5.83	0.00	775.81	1.41	0.00	0.09	774.79	0.39	0 12:00	0 00:00	0.00	0.00
11	(120)	3.74	0.00	776.34	1.19	0.00	0.06	775.45	0.30	0 12:00	0 00:00	0.00	0.00
12	(121)	1.81	0.00	776.78	0.86	0.00	0.14	776.14	0.22	0 12:00	0 00:00	0.00	0.00
13	(125)	4.75	0.00	775.64	1.23	0.00	0.27	774.73	0.32	0 12:00	0 00:00	0.00	0.00
14	(126)	2.75	0.00	776.14	0.98	0.00	0.27	775.42	0.26	0 12:00	0 00:00	0.00	0.00
15	(127)	1.38	0.00	776.65	0.72	0.00	0.28	776.12	0.19	0 12:00	0 00:00	0.00	0.00
16	(131)	5.61	0.00	775.82	1.38	0.00	0.12	774.80	0.36	0 12:00	0 00:00	0.00	0.00
17	(132)	3.84	0.00	776.40	1.21	0.00	0.04	775.51	0.32	0 11:59	0 00:00	0.00	0.00
18	(133)	2.05	0.00	776.88	0.92	0.00	0.08	776.21	0.25	0 11:58	0 00:00	0.00	0.00
19	(137)	5.83	0.00	777.11	1.41	0.00	0.09	776.09	0.39	0 12:00	0 00:00	0.00	0.00
20	(138)	3.74	0.00	777.64	1.19	0.00	0.06	776.75	0.30	0 12:00	0 00:00	0.00	0.00
21	(139)	1.81	0.00	778.08	0.86	0.00	0.14	777.44	0.22	0 12:00	0 00:00	0.00	0.00
22	(143)	4.75	0.00	777.39	1.23	0.00	0.27	776.48	0.32	0 12:00	0 00:00	0.00	0.00
23	(144)	2.75	0.00	777.88	0.98	0.00	0.28	777.16	0.26	0 12:00	0 00:00	0.00	0.00
24	(145)	1.38	0.00	778.40	0.72	0.00	0.28	777.87	0.19	0 12:00	0 00:00	0.00	0.00
25	(149)	5.61	0.00	778.01	1.38	0.00	0.12	776.99	0.36	0 12:00	0 00:00	0.00	0.00
26	(150)	3.84	0.00	778.59	1.21	0.00	0.04	777.70	0.32	0 11:59	0 00:00	0.00	0.00
27	(151)	2.05	0.00	779.07	0.92	0.00	0.08	778.40	0.25	0 11:58	0 00:00	0.00	0.00
28	(81)	5.64	0.00	775.65	1.38	0.00	1.12	774.66	0.39	0 12:00	0 00:00	0.00	0.00
29	(82)	3.84	0.00	776.25	1.21	0.00	0.04	775.39	0.35	0 11:58	0 00:00	0.00	0.00
30	(83)	2.05	0.00	776.71	0.92	0.00	0.08	776.08	0.29	0 11:54	0 00:00	0.00	0.00
31	(87)	4.62	0.00	775.99	1.22	0.00	0.28	775.09	0.32	0 12:00	0 00:00	0.00	0.00
32	(88)	2.63	0.00	776.46	0.95	0.00	0.31	775.76	0.25	0 12:00	0 00:00	0.00	0.00
33	(89)	1.26	0.00	776.97	0.68	0.00	0.32	776.47	0.18	0 12:00	0 00:00	0.00	0.00
34	(94)	5.61	0.00	776.63	1.38	0.00	0.12	775.61	0.36	0 12:00	0 00:00	0.00	0.00
35	(95)	3.84	0.00	777.21	1.21	0.00	0.04	776.32	0.32	0 11:59	0 00:00	0.00	0.00
36	(96)	2.05	0.00	777.69	0.92	0.00	0.08	777.02	0.25	0 11:58	0 00:00	0.00	0.00
37	D02	7.84	0.00	768.99	1.05	0.00	2.80	768.49	0.55	0 13:09	0 00:00	0.00	0.00
38	D04	33.48	0.49	771.49	2.86	0.00	5.22	770.39	1.76	0 12:00	0 00:00	0.00	0.00
39	D05	31.73	0.86	771.96	3.12	0.00	3.44	770.52	1.68	0 12:00	0 00:00	0.00	0.00
40	D06	30.87	0.83	772.42	3.36	0.00	3.25	770.65	1.59	0 12:00	0 00:00	0.00	0.00
41	D07	30.07	0.00	772.92	3.55	0.00	1.62	770.82	1.45	0 12:00	0 00:00	0.00	0.00
42	D08	30.97	1.98	773.59	3.65	0.00	0.91	771.09	1.15	0 12:00	0 00:00	0.00	0.00
43	D09	25.73	1.61	773.85	3.64	0.00	1.15	771.23	1.02	0 12:00	0 00:00	0.00	0.00
44	D10	27.89	1.61	773.99	3.00	0.00	0.00	771.87	0.88	0 11:56	0 12:00	1.74	13.00
45	D11	26.30	1.61	774.35	3.09	0.00	1.15	772.14	0.88	0 11:59	0 00:00	0.00	0.00
46	D12	21.87	1.05	774.54	3.00	0.00	0.00	772.37	0.83	0 11:57	0 12:01	0.26	9.00
47	D13	20.95	0.86	775.05	3.26	0.00	1.00	772.65	0.86	0 12:02	0 00:00	0.00	0.00
48	D14	20.18	1.05	775.62	3.45	0.00	3.02	773.03	0.86	0 12:02	0 00:00	0.00	0.00
49	D15	17.40	0.59	775.93	3.59	0.00	2.37	773.20	0.86	0 12:02	0 00:00	0.00	0.00
50	D16	16.27	0.28	776.19	3.67	0.00	0.91	773.38	0.86	0 12:02	0 00:00	0.00	0.00
51	D17	16.89	0.77	776.49	3.70	0.00	0.51	773.64	0.85	0 12:02	0 00:00	0.00	0.00
52	D18	13.22	2.60	776.65	2.88	0.38	0.00	774.46	0.69	0 12:02	0 12:00	0.18	12.00
53	D19	9.38	1.61	776.67	2.62	0.62	0.00	774.67	0.62	0 12:03	0 11:57	0.29	17.00
54	D20	11.26	1.61	776.69	2.37	0.37	0.00	774.90	0.58	0 12:00	0 11:58	0.19	16.00
55	D21	9.98	2.60	776.60	2.00	0.00	0.00	775.05	0.45	0 11:58	0 12:03	1.32	11.00
56	D22	3.23	0.68	776.76	1.05	0.00	0.45	775.99	0.28	0 11:59	0 00:00	0.00	0.00
57	D23	2.56	0.28	777.11	0.85	0.00	0.65	776.51	0.25	0 12:00	0 00:00	0.00	0.00
58	D24	2.53	1.36	778.89	1.00	0.00	0.00	778.15	0.26	0 11:59	0 12:00	0.01	3.00
59	D25	1.20	1.20	779.99	0.66	0.00	0.34	779.51	0.18	0 12:00	0 00:00	0.00	0.00
60	D27	36.10	0.86	771.22	2.57	0.00	2.19	770.39	1.74	0 12:03	0 00:00	0.00	0.00
61	D28	35.36	0.62	771.78	3.06	0.00	2.14	770.53	1.81	0 12:03	0 00:00	0.00	0.00
62	D29	34.59	3.77	772.58	3.38	0.00	2.42	770.76	1.56	0 12:04	0 00:00	0.00	0.00
63	D30	27.96	2.32	772.93	3.46	0.31	0.00	770.90	1.43	0 12:04	0 11:59	0.36	18.00
64	D31	26.51	2.41	773.23	3.48	0.00	1.77	771.04	1.29	0 12:03	0 00:00	0.00	0.00
65	D32	25.41	2.50	773.40	3.38	0.38	0.00	771.16	1.14	0 12:03	0 11:53	0.44	23.00
66	D33	24.02	2.56	773.54	3.24	0.00	1.46	771.31	1.01	0 12:02	0 00:00	0.00	0.00
67	D34	22.73	2.72	773.57	3.00	0.00	0.00	771.52	0.95	0 11:53	0 12:02	2.46	18.00
68	D35	20.04	1.64	773.93	2.73	0.23	0.00	772.09	0.89	0 12:00	0 11:52	0.02	21.00
69	D36	18.44	0.52	774.30	2.89	0.00	1.98	772.32	0.91	0 12:00	0 00:00	0.00	0.00
70	D37	16.34	0.68	774.45	2.96	0.00	3.20	772.41	0.92	0 11:59	0 00:00	0.00	0.00
71	D38	16.01	3.71	774.65	2.80	0.00	1.35	772.71	0.86	0 11:59	0 00:00	0.00	0.00
72	D39	17.39	2.50	774.64	2.50	0.00	0.00	772.91	0.77	0 11:52	0 12:00	2.99	20.00
73	D40	15.01	2.50	775.41	2.49	0.00	1.09	773.64	0.72	0 12:01	0 00:00	0.00	0.00
74	D41	11.58	2.50	775.63	2.44	0.44	0.00	773.85	0.66	0 12:02	0 11:56	0.39	21.00
75	D42	9.82	2.47	775.78	2.31	0.00	1.22	774.08	0.61	0 11:59	0 00:00	0.00	0.00
76	D43	8.17	2.07	775.74	2.00	0.00	0.00	774.23	0.49	0 11:55	0 12:01	1.10	13.00
77	D44	4.78	3.37	775.80	1.92	0.00	0.08	774.31	0.43	0 12:00	0 00:00	0.00	0.00
78	D45	1.48	1.48	776.27	0.75	0.00	0.25	775.72	0.20	0 12:00	0 00:00	0.00	0.00
79	D46	4.34	1.02	776.11	1.18	0.00	0.32	775.24	0.31	0 12:00	0 00:00	0.00	0.00
80	D47	3.35	0.93	776.70	1.00	0.00	0.50	775.97	0.27	0 12:00	0 00:00	0.00	0.00
81	D48	2.44	0.83	776.99	0.91	0.00	0.34	776.32	0.24	0 12:00	0 00:00	0.00	0.00

Junction Results

SN	Element ID	Peak Inflow (cfs)	Peak Lateral Inflow (cfs)	Max HGL Elevation Attained (ft)	Max HGL Depth Attained (ft)	Max Surcharge Depth Attained (ft)	Min Freeboard Attained (ft)	Average HGL Elevation Attained (ft)	Average HGL Depth Attained (ft)	Time of Max HGL Occurrence (days hh:mm)	Time of Peak Flooding Occurrence (days hh:mm)	Total Flooded Volume (ac-in)	Total Time Flooded (min)
82	D49	1.63	0.71	777.43	0.80	0.00	0.20	776.84	0.21	0 12:00	0 00:00	0.00	0.00
83	D50	0.93	0.93	777.46	0.64	0.00	0.36	776.98	0.16	0 12:00	0 00:00	0.00	0.00
84	D51	1.05	1.05	778.88	0.59	0.00	0.41	778.45	0.16	0 12:01	0 00:00	0.00	0.00
85	D52	0.77	0.77	778.93	0.46	0.00	0.54	778.61	0.14	0 12:00	0 00:00	0.00	0.00
86	D53	0.93	0.93	777.29	0.40	0.00	1.10	777.03	0.14	0 12:00	0 00:00	0.00	0.00
87	D54	1.30	1.30	778.03	0.68	0.00	0.32	777.53	0.18	0 12:00	0 00:00	0.00	0.00
88	D55	1.17	1.17	778.97	0.65	0.00	0.35	778.49	0.17	0 12:00	0 00:00	0.00	0.00
89	D56	0.43	0.43	776.14	0.30	0.00	0.70	775.92	0.08	0 12:00	0 00:00	0.00	0.00
90	D58	2.94	2.94	771.00	1.00	0.00	0.00	770.59	0.59	0 11:57	0 12:00	0.01	5.00
91	D60	43.64	2.90	773.70	4.95	0.00	0.00	771.00	2.25	0 02:54	0 07:35	0.63	4.00
92	D61	22.35	0.59	773.72	4.82	0.02	0.00	771.00	2.10	0 02:19	0 06:01	0.07	0.00
93	RD01	3.28	3.28	776.84	1.00	0.00	0.00	776.14	0.30	0 11:54	0 12:00	0.13	12.00
94	RD02	2.04	2.04	776.34	1.00	0.00	0.00	775.59	0.25	0 11:58	0 12:00	0.01	4.00
95	RD03	1.82	1.82	776.68	0.86	0.00	0.14	776.04	0.22	0 12:00	0 00:00	0.00	0.00
96	RD04	2.04	2.04	776.24	0.92	0.00	0.08	775.55	0.23	0 12:00	0 00:00	0.00	0.00
97	RD05	1.39	1.39	776.56	0.74	0.00	0.26	776.01	0.19	0 12:00	0 00:00	0.00	0.00
98	RD06	1.27	1.27	777.06	0.72	0.00	0.28	776.53	0.19	0 12:00	0 00:00	0.00	0.00
99	RD07	1.79	1.79	776.73	0.93	0.00	0.07	776.02	0.22	0 12:00	0 00:00	0.00	0.00
100	RD08	1.95	1.95	777.30	1.00	0.00	0.00	776.54	0.24	0 11:59	0 12:00	0.00	3.00
101	RD09	2.26	2.26	777.82	1.00	0.00	0.00	777.07	0.25	0 11:58	0 12:00	0.01	3.00
102	RD10	2.26	2.26	777.01	1.00	0.00	0.00	776.26	0.25	0 11:58	0 12:00	0.01	3.00
103	RD11	1.95	1.95	776.49	1.00	0.00	0.00	775.73	0.24	0 11:59	0 12:00	0.00	3.00
104	RD12	1.79	1.79	775.92	0.93	0.00	0.07	775.21	0.22	0 12:00	0 00:00	0.00	0.00
105	RD13	1.39	1.39	776.74	0.76	0.00	0.24	776.18	0.20	0 12:00	0 00:00	0.00	0.00
106	RD14	1.39	1.39	776.23	0.77	0.00	0.23	775.65	0.19	0 12:00	0 00:00	0.00	0.00
107	RD15	2.04	2.04	775.88	0.92	0.00	0.08	775.19	0.23	0 12:00	0 00:00	0.00	0.00
108	RD16	1.82	1.82	776.89	0.92	0.00	0.08	776.20	0.23	0 12:00	0 00:00	0.00	0.00
109	RD17	2.04	2.04	776.45	1.00	0.00	0.00	775.69	0.24	0 11:59	0 12:00	0.00	1.00
110	RD18	3.28	3.28	775.95	1.00	0.00	0.00	775.24	0.29	0 11:55	0 12:00	0.10	10.00
111	RD19	3.28	3.28	777.97	1.00	0.00	0.00	777.26	0.29	0 11:55	0 12:00	0.10	10.00
112	RD20	2.04	2.04	778.47	1.00	0.00	0.00	777.71	0.24	0 11:59	0 12:00	0.00	1.00
113	RD21	1.82	1.82	778.91	0.92	0.00	0.08	778.22	0.23	0 12:00	0 00:00	0.00	0.00
114	RD22	2.04	2.04	777.29	0.92	0.00	0.08	776.60	0.23	0 12:00	0 00:00	0.00	0.00
115	RD23	1.39	1.39	777.64	0.77	0.00	0.23	777.06	0.19	0 12:00	0 00:00	0.00	0.00
116	RD24	1.39	1.39	778.15	0.76	0.00	0.24	777.59	0.20	0 12:00	0 00:00	0.00	0.00
117	RD25	1.79	1.79	777.68	0.93	0.00	0.07	776.97	0.22	0 12:00	0 00:00	0.00	0.00
118	RD26	1.95	1.95	778.25	1.00	0.00	0.00	777.49	0.24	0 11:59	0 12:00	0.00	3.00
119	RD27	2.26	2.26	778.77	1.00	0.00	0.00	778.02	0.25	0 11:58	0 12:00	0.01	3.00
120	RD29	2.26	2.26	779.20	1.00	0.00	0.00	778.45	0.25	0 11:58	0 12:00	0.01	3.00
121	RD30	1.95	1.95	778.68	1.00	0.00	0.00	777.92	0.24	0 11:59	0 12:00	0.00	3.00
122	RD31	1.79	1.79	778.11	0.93	0.00	0.07	777.40	0.22	0 12:00	0 00:00	0.00	0.00
123	RD32	1.39	1.39	778.49	0.76	0.00	0.24	777.93	0.20	0 12:00	0 00:00	0.00	0.00
124	RD33	1.39	1.39	777.97	0.76	0.00	0.24	777.40	0.19	0 12:00	0 00:00	0.00	0.00
125	RD34	2.04	2.04	777.63	0.92	0.00	0.08	776.94	0.23	0 12:00	0 00:00	0.00	0.00
126	RD35	1.82	1.82	778.19	0.92	0.00	0.08	777.50	0.23	0 12:00	0 00:00	0.00	0.00
127	RD36	2.04	2.04	777.75	1.00	0.00	0.00	776.99	0.24	0 11:59	0 12:00	0.00	1.00
128	RD37	3.28	3.28	777.25	4.00	0.00	0.00	776.50	3.25	0 11:55	0 12:00	0.10	10.00

Pipe Input

SN	Element ID	Length (ft)	Inlet Invert Elevation (ft)	Inlet Invert Offset (ft)	Outlet Invert Elevation (ft)	Outlet Invert Offset (ft)	Total Drop (ft)	Average Slope (%)	Pipe Shape	Pipe Diameter or Height (in)	Pipe Width (in)	Manning's Roughness	Entrance Losses	Exit/Bend Losses	Additional Losses	Initial Flow (cfs)	Flap Gate	No. of Barrels
1	Link-01	49.90	771.00	2.25	767.00	-1.00	4.00	8.0200	CIRCULAR	12.000	12.000	0.0150	0.5000	0.5000	0.0000	0.00	No	1
2	Link-02	30.20	768.90	0.00	768.75	0.00	0.15	0.5000	CIRCULAR	12.000	12.000	0.0150	0.5000	0.5000	0.0000	0.00	No	1
3	Link-03	54.17	767.94	0.00	767.40	3.00	0.54	1.0000	CIRCULAR	24.000	24.000	0.0150	0.5000	0.5000	0.0000	0.00	No	1
4	P(100)	49.86	776.95	0.00	776.45	0.25	0.50	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
5	P(101)	52.12	777.72	0.00	777.20	0.25	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
6	P(102)	5.00	777.77	0.00	777.72	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
7	P(103)	5.00	777.25	0.00	777.20	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
8	P(104)	5.00	776.75	0.00	776.70	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
9	P(105)	90.03	774.40	0.00	773.50	4.30	0.90	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
10	P(106)	49.86	775.15	0.00	774.65	0.25	0.50	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
11	P(107)	52.12	775.92	0.00	775.40	0.25	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
12	P(108)	5.00	775.97	0.00	775.92	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
13	P(109)	5.00	775.45	0.00	775.40	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
14	P(110)	5.00	774.95	0.00	774.90	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
15	P(111)	91.03	774.41	0.00	773.50	3.75	0.91	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
16	P(112)	49.86	775.16	0.00	774.66	0.25	0.50	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
17	P(113)	52.12	775.93	0.00	775.41	0.25	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
18	P(114)	5.00	775.98	0.00	775.93	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
19	P(115)	5.00	775.46	0.00	775.41	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
20	P(116)	5.00	774.96	0.00	774.91	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
21	P(117)	94.06	774.44	0.00	773.50	3.20	0.94	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
22	P(118)	49.86	775.19	0.00	774.69	0.25	0.50	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
23	P(119)	52.12	775.96	0.00	775.44	0.25	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
24	P(120)	5.00	776.01	0.00	775.96	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
25	P(121)	5.00	775.49	0.00	775.44	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
26	P(122)	5.00	774.99	0.00	774.94	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
27	P(123)	120.37	775.70	0.00	774.50	2.65	1.20	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
28	P(124)	49.86	776.45	0.00	775.95	0.25	0.50	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
29	P(125)	52.12	777.22	0.00	776.70	0.25	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
30	P(126)	5.00	777.27	0.00	777.22	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
31	P(127)	5.00	776.75	0.00	776.70	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
32	P(128)	5.00	776.25	3.00	776.20	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
33	P(129)	115.56	776.16	0.00	775.00	2.08	1.16	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
34	P(130)	49.86	776.90	0.00	776.41	0.25	0.49	0.9800	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
35	P(131)	52.12	777.68	0.00	777.16	0.26	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
36	P(132)	5.00	777.73	0.00	777.68	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
37	P(133)	5.03	777.21	0.00	777.16	0.26	0.05	0.9900	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
38	P(134)	5.00	776.71	0.00	776.66	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
39	P(135)	113.42	776.63	0.00	775.50	2.03	1.13	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
40	P(136)	49.86	777.38	0.00	776.88	0.25	0.50	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
41	P(137)	52.12	778.15	0.00	777.63	0.25	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
42	P(138)	5.00	778.20	0.00	778.15	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
43	P(139)	5.00	777.68	0.00	777.63	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
44	P(140)	5.00	777.18	0.00	777.13	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
45	P(15)	58.56	770.00	0.00	768.50	0.50	1.50	2.5600	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
46	P(16)	123.16	769.37	0.00	769.06	0.00	0.31	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
47	P(16) (1)	226.84	769.94	0.00	769.37	0.00	0.57	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
48	P(17)	110.00	770.21	0.00	769.94	0.00	0.27	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
49	P(18)	110.00	770.99	0.00	770.21	0.00	0.78	0.7100	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
50	P(19)	110.00	771.26	0.00	770.99	0.00	0.27	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
51	P(20)	110.00	771.54	0.00	771.26	0.00	0.28	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
52	P(23)	192.59	773.77	0.00	773.29	0.50	0.48	0.2500	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
53	P(24)	110.00	774.05	0.00	773.77	0.00	0.28	0.2500	CIRCULAR	24.000	24.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
54	P(25)	110.00	774.32	0.00	774.05	0.00	0.27	0.2500	CIRCULAR	24.000	24.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
55	P(26)	110.00	774.60	0.00	774.32	0.00	0.28	0.2500	CIRCULAR	24.000	24.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
56	P(27)	121.80	775.71	0.00	775.10	0.50	0.61	0.5000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
57	P(28)	110.16	776.26	0.00	775.71	0.00	0.55	0.5000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
58	P(29)	113.60	777.89	0.00	776.76	0.50	1.13	0.9900	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
59	P(30)	144.00	779.33	0.00	777.89	0.00	1.44	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
60	P(31)	58.17	768.65	0.00	768.50	0.50	0.15	0.2600	CIRCULAR	48.000	48.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
61	P(32)	30.00	768.72	0.00	768.65	0.00	0.07	0.2300	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
62	P(33)	191.79	769.20	0.00	768.72	0.00	0.48	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
63	P(34)	110.00	769.47	0.00	769.20	0.00	0.27	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
64	P(35)	110.00	769.75	0.00	769.47	0.00	0.28	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
65	P(36)	110.00	770.02	0.00	769.75	0.00	0.27	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
66	P(37)	110.00	770.30	0.00	770.02	0.00	0.28	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
67	P(38)	110.00	770.57	0.00	770.30	0.00	0.27	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
68	P(39)	50.09	771.20	0.00	771.07	0.50	0.13	0.2600	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
69	P(39) (1)	84.79	771.41	0.00	771.20	0.00	0.21	0.2500	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
70	P(40)	30.63	771.49	0.00	771.41	0.00	0.08	0.2600	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
71	P(41)	145.53	771.85	0.00	771.49	0.00	0.36	0.2500	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
72	P(42)	115.67	772.14	0.00	771.85	0.00	0.29	0.2500	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
73	P(43)	110.00	772.92	0.00	772.64	0.50	0.28	0.2500	CIRCULAR	24.000	24.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
74	P(44)	110.00	773.19	0.00	772.92	0.00	0.27	0.2500	CIRCULAR	24.000	24.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
75	P(45)	110.00	773.47	0.00	773.19	0.00	0.28	0.2500	CIRCULAR	24.000	24.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
76	P(46)	110.00	773.74	0.00	773.47	0.00	0.27	0.2500	CIRCULAR	24.000	24.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
77	P(47)	55.00	773.88	0.00	773.74	0.00	0.14	0.2500	CIRCULAR	24.000	24.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
78	P(48)	255.74	775.52	0.00	774.88	1.00	0.64	0.2500	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
79	P(49)	100.80	771.79	0.00	771.54	0.00	0.25	0.2500	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
80	P(50)	152.05	772.17	0.00	771.79	0.00	0.38	0.2500	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
81	P(51)	108.00	776.89	0.00	775.81	3.64	1.08	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
82	P(53)	70.60	772.52	0.00	772.34	0.00	0.18	0.2500	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1

Pipe Input

SN	Element ID	Length (ft)	Inlet Invert Elevation (ft)	Inlet Invert Offset (ft)	Outlet Invert Elevation (ft)	Outlet Invert Offset (ft)	Total Drop (ft)	Average Slope (%)	Pipe Shape	Pipe Diameter or Height (in)	Pipe Width (in)	Manning's Roughness	Entrance Losses	Exit/Bend Losses	Additional Losses	Initial Flow (cfs)	Flap Gate	No. of Barrels
83	P(54)	117.00	778.47	0.00	777.30	4.96	1.17	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
84	P(55)	163.40	778.29	0.00	776.65	5.16	1.64	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
85	P(56)	161.45	774.93	0.00	773.31	1.90	1.62	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
86	P(57)	76.76	775.70	0.00	774.93	0.00	0.77	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
87	P(58)	13.14	776.08	0.00	775.95	0.25	0.13	0.9900	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
88	P(59)	29.92	776.63	0.00	776.33	0.25	0.30	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
89	P(60)	13.28	776.82	0.00	776.63	0.00	0.19	1.4300	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
90	P(61)	52.97	768.63	0.00	768.50	0.50	0.13	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
91	P(62)	82.14	768.83	-0.01	768.63	0.00	0.20	0.2400	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
92	P(63)	90.00	769.05	-0.01	768.83	-0.01	0.22	0.2400	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
93	P(64)	108.60	772.79	0.00	772.52	0.00	0.27	0.2500	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
94	P(65)	67.82	778.32	0.00	777.64	5.47	0.68	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
95	P(66)	82.14	777.35	0.00	775.71	7.08	1.64	2.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
96	P(67)	46.08	773.84	-2.00	772.92	4.20	0.92	2.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
97	P(68)	69.52	772.34	0.00	772.17	0.00	0.17	0.2400	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
98	P(69)	127.13	774.27	0.00	773.00	3.06	1.27	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
99	P(70)	52.12	775.04	0.00	774.52	0.25	0.52	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
100	P(71)	49.86	775.79	0.00	775.29	0.25	0.50	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
101	P(72)	5.00	775.84	0.00	775.79	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
102	P(73)	5.00	775.34	0.00	775.29	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
103	P(74)	5.00	775.82	0.00	775.77	1.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
104	P(75)	126.56	774.77	0.00	773.50	3.29	1.27	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
105	P(76)	49.86	775.51	0.00	775.02	0.25	0.49	0.9800	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
106	P(77)	52.12	776.29	0.00	775.77	0.26	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
107	P(78)	5.00	776.34	0.00	776.29	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
108	P(79)	5.00	775.82	0.00	775.77	0.26	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
109	P(80)	5.00	775.32	0.00	775.27	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
110	P(81)	125.15	775.25	0.00	774.00	2.74	1.25	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
111	P(82)	49.86	776.00	0.00	775.50	0.25	0.50	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
112	P(83)	52.12	776.77	0.00	776.25	0.25	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
113	P(84)	5.00	776.82	0.00	776.77	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
114	P(85)	5.00	776.30	0.00	776.25	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
115	P(86)	5.00	775.80	0.00	775.75	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
116	P(87)	92.04	776.42	0.00	775.50	2.71	0.92	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
117	P(88)	49.86	777.17	0.00	776.67	0.25	0.50	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
118	P(89)	52.12	777.94	0.00	777.42	0.25	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
119	P(90)	5.00	777.99	0.00	777.94	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
120	P(91)	5.00	777.47	0.00	777.42	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
121	P(92)	5.00	776.97	0.00	776.92	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
122	P(93)	154.50	775.82	0.00	774.27	0.50	1.55	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
123	P(94)	49.86	776.57	0.00	776.07	0.25	0.50	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
124	P(95)	52.12	777.34	0.00	776.82	0.25	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
125	P(96)	5.00	777.39	0.00	777.34	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
126	P(97)	5.00	776.87	0.00	776.82	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
127	P(98)	5.00	776.37	0.00	776.32	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
128	P(99)	137.40	776.20	0.00	774.82	0.50	1.38	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1

Pipe Results

SN	Element ID	Peak Flow (cfs)	Time of Peak Flow Occurrence (days hh:mm)	Design Flow Capacity (cfs)	Peak Flow/ Design Flow Ratio	Peak Flow Velocity (ft/sec)	Travel Time (min)	Peak Flow Depth (ft)	Peak Flow Depth/ Total Depth Ratio	Total Time Surcharged (min)	Froude Number	Reported Condition
1	Link-01	33.39	0 08:33	7.57	4.41	50.00	0.02	0.79	0.84	0.00		> CAPACITY
2	Link-02	43.60	0 07:35	2.18	20.04	50.00	0.01	1.00	1.00	912.00		SURCHARGED
3	Link-03	7.84	0 13:09	19.58	0.40	5.22	0.17	0.97	0.48	0.00		Calculated
4	P(100)	3.82	0 11:59	7.01	0.55	3.27	0.25	1.17	0.93	0.00		Calculated
5	P(101)	2.04	0 11:58	3.86	0.53	2.91	0.30	0.94	0.94	0.00		Calculated
6	P(102)	2.05	0 11:58	3.86	0.53	2.65	0.03	0.96	0.96	0.00		Calculated
7	P(103)	1.80	0 11:59	3.86	0.47	2.77	0.03	0.98	0.98	0.00		Calculated
8	P(104)	1.79	0 12:00	3.86	0.46	2.94	0.03	0.91	0.91	0.00		Calculated
9	P(105)	5.83	0 12:00	11.38	0.51	4.25	0.35	1.09	0.72	0.00		Calculated
10	P(106)	3.74	0 12:00	7.01	0.53	3.13	0.27	1.17	0.94	0.00		Calculated
11	P(107)	1.80	0 12:00	3.86	0.47	2.74	0.32	0.89	0.90	0.00		Calculated
12	P(108)	1.81	0 12:00	3.86	0.47	2.46	0.03	0.89	0.89	0.00		Calculated
13	P(109)	1.98	0 11:59	3.86	0.51	2.86	0.03	0.97	0.97	0.00		Calculated
14	P(110)	2.29	0 11:55	3.86	0.59	3.16	0.03	0.96	0.96	0.00		Calculated
15	P(111)	4.72	0 12:00	11.38	0.41	3.98	0.38	0.94	0.64	0.00		Calculated
16	P(112)	2.73	0 12:00	7.01	0.39	3.11	0.27	0.97	0.79	0.00		Calculated
17	P(113)	1.37	0 12:00	3.86	0.36	2.79	0.31	0.72	0.73	0.00		Calculated
18	P(114)	1.38	0 12:00	3.86	0.36	2.26	0.04	0.74	0.74	0.00		Calculated
19	P(115)	1.38	0 12:00	3.86	0.36	2.81	0.03	0.74	0.75	0.00		Calculated
20	P(116)	2.03	0 12:00	3.86	0.53	2.95	0.03	0.82	0.82	0.00		Calculated
21	P(117)	5.59	0 12:00	11.38	0.49	4.18	0.38	1.06	0.71	0.00		Calculated
22	P(118)	3.82	0 11:59	7.01	0.55	3.28	0.25	1.17	0.93	0.00		Calculated
23	P(119)	2.04	0 11:58	3.86	0.53	2.91	0.30	0.94	0.94	0.00		Calculated
24	P(120)	2.05	0 11:58	3.86	0.53	2.65	0.03	0.96	0.96	0.00		Calculated
25	P(121)	1.80	0 11:59	3.86	0.47	2.77	0.03	0.98	0.98	0.00		Calculated
26	P(122)	1.79	0 12:00	3.86	0.46	2.94	0.03	0.90	0.90	0.00		Calculated
27	P(123)	5.83	0 12:00	11.36	0.51	4.25	0.47	1.09	0.73	0.00		Calculated
28	P(124)	3.74	0 12:00	7.01	0.53	3.13	0.27	1.17	0.94	0.00		Calculated
29	P(125)	1.80	0 12:00	3.86	0.47	2.74	0.32	0.89	0.90	0.00		Calculated
30	P(126)	1.81	0 12:00	3.86	0.47	2.46	0.03	0.89	0.89	0.00		Calculated
31	P(127)	1.98	0 11:59	3.86	0.51	2.86	0.03	0.97	0.97	0.00		Calculated
32	P(128)	2.29	0 11:55	3.86	0.59	3.16	0.03	0.96	0.96	0.00		Calculated
33	P(129)	4.71	0 12:00	11.40	0.41	3.98	0.48	0.94	0.63	0.00		Calculated
34	P(130)	2.73	0 12:00	6.94	0.39	3.11	0.27	0.97	0.79	0.00		Calculated
35	P(131)	1.37	0 12:00	3.86	0.36	2.79	0.31	0.71	0.72	0.00		Calculated
36	P(132)	1.38	0 12:00	3.86	0.36	2.26	0.04	0.74	0.74	0.00		Calculated
37	P(133)	1.38	0 12:00	3.85	0.36	2.81	0.03	0.73	0.74	0.00		Calculated
38	P(134)	2.03	0 12:00	3.86	0.53	2.96	0.03	0.82	0.82	0.00		Calculated
39	P(135)	5.58	0 12:00	11.36	0.49	4.18	0.45	1.06	0.71	0.00		Calculated
40	P(136)	3.82	0 11:59	7.01	0.55	3.27	0.25	1.16	0.93	0.00		Calculated
41	P(137)	2.04	0 11:58	3.86	0.53	2.91	0.30	0.94	0.94	0.00		Calculated
42	P(138)	2.05	0 11:58	3.86	0.53	2.65	0.03	0.96	0.96	0.00		Calculated
43	P(139)	1.80	0 11:59	3.86	0.47	2.77	0.03	0.98	0.98	0.00		Calculated
44	P(140)	1.79	0 12:00	3.86	0.46	2.94	0.03	0.90	0.90	0.00		Calculated
45	P(15)	2.95	0 12:00	6.18	0.48	3.76	0.26	1.00	1.00	5.00		SURCHARGED
46	P(16)	30.06	0 11:59	36.25	0.83	4.25	0.48	3.00	1.00	16.00		SURCHARGED
47	P(16) (1)	30.07	0 11:57	36.22	0.83	4.25	0.89	3.00	1.00	17.00		SURCHARGED
48	P(17)	25.67	0 12:09	35.80	0.72	3.63	0.51	3.00	1.00	17.00		SURCHARGED
49	P(18)	22.90	0 12:10	60.85	0.38	3.44	0.53	3.00	1.00	13.00		SURCHARGED
50	P(19)	26.30	0 12:00	35.80	0.73	3.72	0.49	3.00	1.00	12.00		SURCHARGED
51	P(20)	20.33	0 12:07	36.46	0.56	3.23	0.57	3.00	1.00	9.00		SURCHARGED
52	P(23)	13.17	0 12:12	22.18	0.59	3.80	0.84	2.50	1.00	12.00		SURCHARGED
53	P(24)	10.86	0 12:13	12.36	0.88	3.47	0.53	2.00	1.00	16.00		SURCHARGED
54	P(25)	8.11	0 11:57	12.14	0.67	2.79	0.66	2.00	1.00	16.00		SURCHARGED
55	P(26)	4.86	0 11:57	12.36	0.39	1.62	1.13	2.00	1.00	11.00		SURCHARGED
56	P(27)	3.38	0 12:00	8.05	0.42	2.89	0.70	1.27	0.85	0.00		Calculated
57	P(28)	2.56	0 12:00	8.04	0.32	2.46	0.75	0.94	0.63	0.00		Calculated
58	P(29)	2.29	0 11:59	3.85	0.59	3.49	0.54	0.78	0.78	0.00		Calculated
59	P(30)	1.18	0 12:00	3.86	0.31	1.70	1.41	0.83	0.83	0.00		Calculated
60	P(31)	36.09	0 12:03	79.02	0.46	5.16	0.19	2.32	0.58	0.00		Calculated
61	P(32)	35.36	0 12:03	34.90	1.01	5.17	0.10	2.78	0.93	0.00		> CAPACITY
62	P(33)	34.50	0 12:04	36.15	0.95	4.88	0.66	3.00	1.00	8.00		SURCHARGED
63	P(34)	28.73	0 12:10	35.80	0.80	4.06	0.45	3.00	1.00	19.00		SURCHARGED
64	P(35)	26.69	0 12:14	36.46	0.73	3.80	0.48	3.00	1.00	21.00		SURCHARGED
65	P(36)	25.23	0 12:14	35.80	0.70	3.57	0.51	3.00	1.00	22.00		SURCHARGED
66	P(37)	23.95	0 11:53	36.46	0.66	3.39	0.54	3.00	1.00	21.00		SURCHARGED
67	P(38)	19.26	0 11:53	35.80	0.54	2.84	0.65	3.00	1.00	18.00		SURCHARGED
68	P(39)	20.05	0 12:00	22.64	0.89	4.08	0.20	2.50	1.00	18.00		SURCHARGED
69	P(39) (1)	18.41	0 12:00	22.11	0.83	3.75	0.38	2.50	1.00	21.00		SURCHARGED
70	P(40)	15.84	0 11:52	22.71	0.70	3.23	0.16	2.50	1.00	22.00		SURCHARGED
71	P(41)	15.45	0 11:52	22.10	0.70	3.15	0.77	2.50	1.00	22.00		SURCHARGED
72	P(42)	11.45	0 12:12	22.25	0.51	2.35	0.82	2.50	1.00	20.00		SURCHARGED
73	P(43)	15.00	0 12:01	12.36	1.21	4.78	0.38	2.00	1.00	20.00		SURCHARGED
74	P(44)	9.71	0 12:10	12.14	0.80	3.09	0.59	2.00	1.00	21.00		SURCHARGED
75	P(45)	9.75	0 11:56	12.36	0.79	3.10	0.59	2.00	1.00	18.00		SURCHARGED
76	P(46)	4.18	0 11:55	12.14	0.34	1.68	1.09	2.00	1.00	13.00		SURCHARGED
77	P(47)	4.81	0 12:00	12.36	0.39	1.61	0.57	1.96	0.98	0.00		Calculated
78	P(48)	1.44	0 12:00	1.93	0.75	2.32	1.84	0.83	0.83	0.00		Calculated
79	P(49)	20.95	0 12:02	22.13	0.95	4.27	0.39	2.50	1.00	16.00		SURCHARGED
80	P(50)	20.19	0 12:02	22.21	0.91	4.11	0.62	2.50	1.00	17.00		SURCHARGED
81	P(51)	0.90	0 12:00	11.38	0.08	2.94	0.61	0.34	0.23	0.00		Calculated

Pipe Results

SN	Element ID	Peak Flow (cfs)	Time of Peak Flow Occurrence (days hh:mm)	Design Flow Capacity (cfs)	Peak Flow/ Design Flow Ratio	Peak Flow Velocity (ft/sec)	Travel Time (min)	Peak Flow Depth (ft)	Peak Flow Depth/ Total Depth Ratio	Total Time Surcharged (min)	Froude Number	Reported Condition
82	P(53)	16.27	0 12:04	22.44	0.73	3.31	0.36	2.50	1.00	18.00		SURCHARGED
83	P(54)	0.78	0 12:00	3.86	0.20	2.94	0.66	0.36	0.38	0.00		Calculated
84	P(55)	1.00	0 12:01	3.87	0.26	2.94	0.93	0.46	0.47	0.00		Calculated
85	P(56)	4.29	0 12:00	11.40	0.38	3.50	0.77	1.07	0.72	0.00		Calculated
86	P(57)	3.34	0 12:00	11.40	0.29	2.48	0.52	1.07	0.72	0.00		Calculated
87	P(58)	2.44	0 12:00	6.96	0.35	3.26	0.07	0.82	0.66	0.00		Calculated
88	P(59)	1.62	0 12:00	3.86	0.42	2.94	0.17	0.73	0.73	0.00		Calculated
89	P(60)	0.92	0 12:00	4.62	0.20	1.66	0.13	0.72	0.72	0.00		Calculated
90	P(61)	33.47	0 12:00	35.79	0.94	5.59	0.16	2.37	0.79	0.00		Calculated
91	P(62)	31.73	0 12:00	36.53	0.87	4.52	0.30	2.93	0.98	0.00		Calculated
92	P(63)	30.87	0 12:00	35.72	0.86	4.37	0.34	3.00	1.00	12.00		SURCHARGED
93	P(64)	16.07	0 12:05	22.16	0.73	3.27	0.55	2.50	1.00	19.00		SURCHARGED
94	P(65)	1.15	0 12:00	3.86	0.30	2.94	0.38	0.51	0.51	0.00		Calculated
95	P(66)	1.27	0 12:00	5.45	0.23	3.26	0.42	0.50	0.50	0.00		Calculated
96	P(67)	0.43	0 12:00	9.72	0.04	3.32	0.23	0.22	0.22	0.00		Calculated
97	P(68)	17.41	0 12:04	21.97	0.79	3.55	0.33	2.50	1.00	17.00		SURCHARGED
98	P(69)	5.61	0 12:00	11.37	0.49	4.19	0.51	1.06	0.71	0.00		Calculated
99	P(70)	3.82	0 11:58	6.99	0.55	3.28	0.26	1.17	0.94	0.00		Calculated
100	P(71)	2.04	0 11:54	3.87	0.53	2.94	0.28	0.94	0.94	0.00		Calculated
101	P(72)	2.05	0 11:54	3.86	0.53	2.64	0.03	0.96	0.96	0.00		Calculated
102	P(73)	1.80	0 11:58	3.86	0.47	2.64	0.03	0.98	0.98	0.00		Calculated
103	P(74)	1.82	0 12:00	3.86	0.47	3.23	0.03	0.67	0.67	0.00		Calculated
104	P(75)	4.56	0 12:00	11.40	0.40	3.92	0.54	0.92	0.63	0.00		Calculated
105	P(76)	2.61	0 12:00	6.94	0.38	3.10	0.27	0.94	0.77	0.00		Calculated
106	P(77)	1.25	0 12:00	3.86	0.32	2.75	0.32	0.68	0.69	0.00		Calculated
107	P(78)	1.26	0 12:00	3.86	0.33	2.27	0.04	0.70	0.70	0.00		Calculated
108	P(79)	1.38	0 12:00	3.86	0.36	2.85	0.03	0.71	0.72	0.00		Calculated
109	P(80)	2.03	0 12:00	3.86	0.53	3.00	0.03	0.81	0.81	0.00		Calculated
110	P(81)	5.58	0 12:00	11.37	0.49	4.18	0.50	1.06	0.71	0.00		Calculated
111	P(82)	3.82	0 11:59	7.01	0.55	3.28	0.25	1.16	0.93	0.00		Calculated
112	P(83)	2.04	0 11:58	3.86	0.53	2.91	0.30	0.94	0.94	0.00		Calculated
113	P(84)	2.05	0 11:58	3.86	0.53	2.65	0.03	0.96	0.96	0.00		Calculated
114	P(85)	1.80	0 11:59	3.86	0.47	2.77	0.03	0.98	0.98	0.00		Calculated
115	P(86)	1.79	0 12:00	3.86	0.46	2.94	0.03	0.90	0.90	0.00		Calculated
116	P(87)	5.83	0 12:00	11.38	0.51	4.24	0.36	1.15	0.80	0.00		Calculated
117	P(88)	3.74	0 12:00	7.01	0.53	3.13	0.27	1.17	0.94	0.00		Calculated
118	P(89)	1.80	0 12:00	3.86	0.47	2.74	0.32	0.89	0.90	0.00		Calculated
119	P(90)	1.81	0 12:00	3.86	0.47	2.46	0.03	0.89	0.89	0.00		Calculated
120	P(91)	1.98	0 11:59	3.86	0.51	2.86	0.03	0.97	0.97	0.00		Calculated
121	P(92)	2.29	0 11:55	3.86	0.59	3.16	0.03	0.96	0.96	0.00		Calculated
122	P(93)	4.73	0 12:00	11.40	0.41	3.07	0.84	1.36	0.91	0.00		Calculated
123	P(94)	2.73	0 12:00	7.01	0.39	3.11	0.27	0.97	0.79	0.00		Calculated
124	P(95)	1.37	0 12:00	3.86	0.36	2.79	0.31	0.72	0.73	0.00		Calculated
125	P(96)	1.38	0 12:00	3.86	0.36	2.26	0.04	0.74	0.74	0.00		Calculated
126	P(97)	1.38	0 12:00	3.86	0.36	2.81	0.03	0.74	0.75	0.00		Calculated
127	P(98)	2.03	0 12:00	3.86	0.53	2.94	0.03	0.82	0.83	0.00		Calculated
128	P(99)	5.60	0 12:00	11.40	0.49	3.47	0.66	1.44	0.96	0.00		Calculated

Storage Nodes

Storage Node : POND

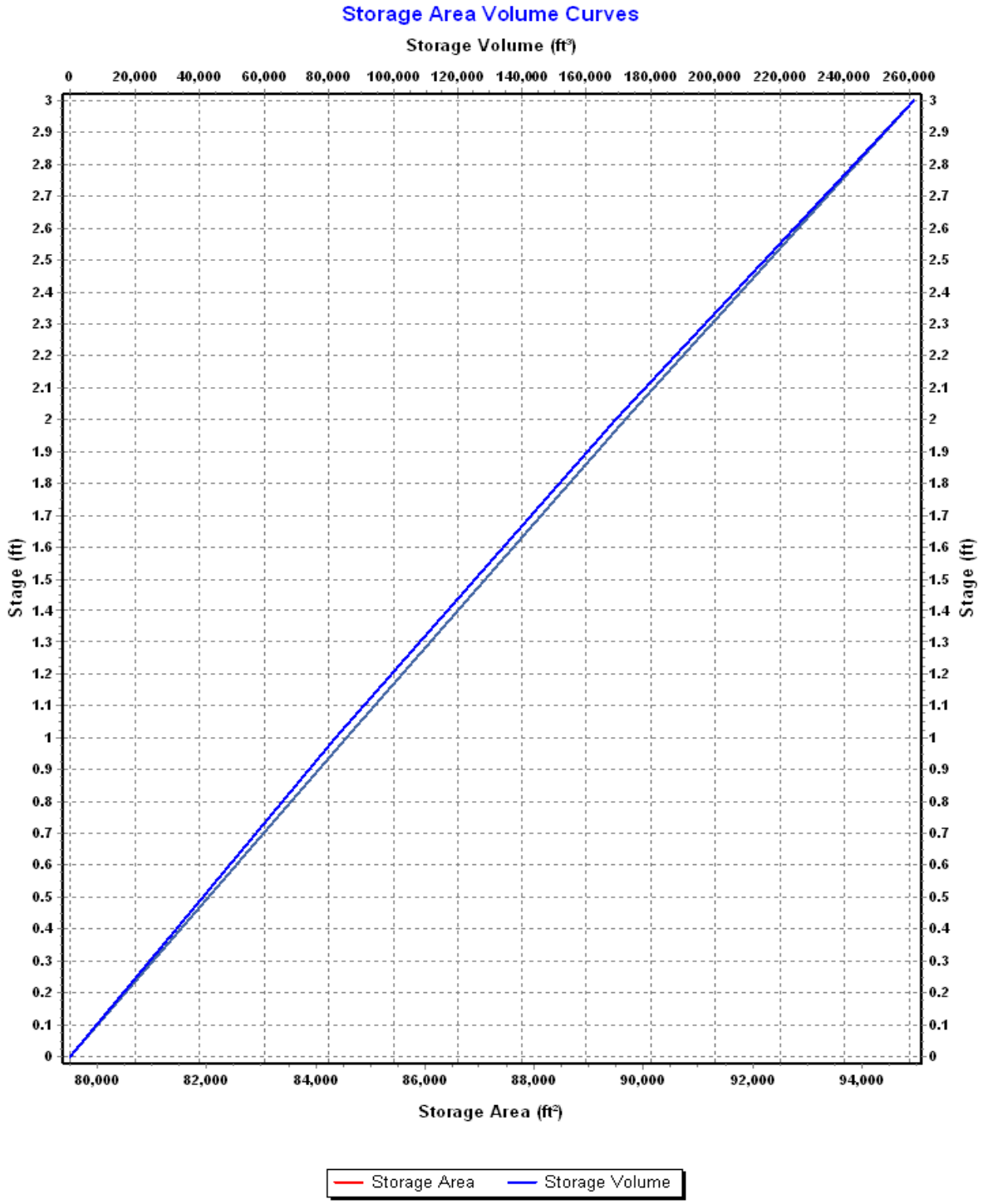
Input Data

Invert Elevation (ft) 768.00
Max (Rim) Elevation (ft) 772.00
Max (Rim) Offset (ft) 4.00
Initial Water Elevation (ft) 768.00
Initial Water Depth (ft) 0.00
Ponded Area (ft²) 100290.00
Evaporation Loss 0.00

Storage Area Volume Curves

Storage Curve : Storage-POND

Stage (ft)	Storage Area (ft²)	Storage Volume (ft³)
0	79508	0.000
1	84543	82025.50
2	89680	169137.00
3	94939	261446.50


Storage Area Volume Curves
Storage Volume (ft³)
0
20,000
40,000
60,000
80,000
100,000
120,000
140,000
160,000
180,000
200,000
220,000
240,000
260,000
Stage (ft)
3
2.9
2.8
2.7
2.6
2.5
2.4
2.3
2.2
2.1
2
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
80,000
82,000
84,000
86,000
88,000
90,000
92,000
94,000
Storage Area (ft²)
Storage Area
Storage Volume

Storage Node : POND (continued)

Outflow Weirs

SN	Element ID	Weir Type	Flap Gate	Crest Elevation (ft)	Crest Offset (ft)	Length (ft)	Weir Total Height (ft)	Discharge Coefficient
1	Weir-RIM	Rectangular	No	770.50	2.50	8.00	1.00	3.33
2	Weir-Spillway	Rectangular	No	771.25	3.25	20.00	0.60	3.33

Outflow Orifices

SN	Element ID	Orifice Type	Orifice Shape	Flap Gate	Circular Orifice Diameter (in)	Rectangular Orifice Height (in)	Rectangular Orifice Width (in)	Orifice Invert Elevation (ft)	Orifice Coefficient
1	Orifice-WQv	Side	CIRCULAR	No	6.10			768.00	0.61

Output Summary Results

Peak Inflow (cfs) 79.14
Peak Lateral Inflow (cfs) 3.67
Peak Outflow (cfs) 7.84
Peak Exfiltration Flow Rate (cfm) 0.00
Max HGL Elevation Attained (ft) 770.89
Max HGL Depth Attained (ft) 2.89
Average HGL Elevation Attained (ft) 770.05
Average HGL Depth Attained (ft) 2.05
Time of Max HGL Occurrence (days hh:mm) 0 13:09
Total Exfiltration Volume (1000-ft³) 0.000
Total Flooded Volume (ac-in) 0
Total Time Flooded (min) 0
Total Retention Time (sec) 0.00

Project Description

File Name ..... 2015-10-21_DESIGN.SPF

Project Options

Flow Units ..... CFS
Elevation Type ..... Elevation
Hydrology Method ..... SCS TR-55
Time of Concentration (TOC) Method ..... SCS TR-55
Link Routing Method ..... Hydrodynamic
Enable Overflow Ponding at Nodes ..... YES
Skip Steady State Analysis Time Periods ..... NO

Analysis Options

Start Analysis On ..... Sep 27, 2015 00:00:00
End Analysis On ..... Sep 28, 2015 00:00:00
Start Reporting On ..... Sep 27, 2015 00:00:00
Antecedent Dry Days ..... 0 days
Runoff (Dry Weather) Time Step ..... 0 01:00:00 days hh:mm:ss
Runoff (Wet Weather) Time Step ..... 0 00:05:00 days hh:mm:ss
Reporting Time Step ..... 0 00:05:00 days hh:mm:ss
Routing Time Step ..... 30 seconds

Number of Elements

	Qty
Rain Gages	1
Subbasins	91
Nodes	130
Junctions	128
Outfalls	1
Flow Diversions	0
Inlets	0
Storage Nodes	1
Links	131
Channels	0
Pipes	128
Pumps	0
Orifices	1
Weirs	2
Outlets	0
Pollutants	0
Land Uses	0

Rainfall Details

SN	Rain Gage ID	Data Source	Data Source ID	Rainfall Type	Rain Units	State	County	Return Period (years)	Rainfall Depth (inches)	Rainfall Distribution
1	Rain Gage-01	Time Series	TS-025	Cumulative	inches	Ohio	Franklin	25	4.40	SCS Type II 24-hr

Subbasin Summary

SN	Subbasin ID	Area (ac)	Weighted Curve Number	Total Rainfall (in)	Total Runoff (in)	Total Runoff Volume (ac-in)	Peak Runoff (cfs)	Time of Concentration (days hh:mm:ss)
1	Sub-D04	0.10	98.00	4.40	4.16	0.42	0.59	0 00:05:00
2	Sub-D05	0.18	98.00	4.40	4.16	0.75	1.03	0 00:05:00
3	Sub-D06	0.17	98.00	4.40	4.16	0.71	0.99	0 00:05:00
4	Sub-D08	0.41	98.00	4.40	4.16	1.71	2.36	0 00:05:00
5	Sub-D09	0.33	98.00	4.40	4.16	1.37	1.92	0 00:05:00
6	Sub-D10	0.33	98.00	4.40	4.16	1.37	1.92	0 00:05:00
7	Sub-D11	0.33	98.00	4.40	4.16	1.37	1.92	0 00:05:00
8	Sub-D12	0.22	98.00	4.40	4.16	0.92	1.25	0 00:05:00
9	Sub-D13	0.18	98.00	4.40	4.16	0.75	1.03	0 00:05:00
10	Sub-D14	0.22	98.00	4.40	4.16	0.92	1.25	0 00:05:00
11	Sub-D15	0.12	98.00	4.40	4.16	0.50	0.70	0 00:05:00
12	Sub-D16	0.06	98.00	4.40	4.16	0.25	0.33	0 00:05:00
13	Sub-D17	0.16	98.00	4.40	4.16	0.67	0.92	0 00:05:00
14	Sub-D18	0.54	98.00	4.40	4.16	2.25	3.10	0 00:05:00
15	Sub-D19	0.33	98.00	4.40	4.16	1.37	1.92	0 00:05:00
16	Sub-D20	0.33	98.00	4.40	4.16	1.37	1.92	0 00:05:00
17	Sub-D21	0.54	98.00	4.40	4.16	2.25	3.10	0 00:05:00
18	Sub-D22	0.14	98.00	4.40	4.16	0.58	0.81	0 00:05:00
19	Sub-D23	0.06	98.00	4.40	4.16	0.25	0.33	0 00:05:00
20	Sub-D24	0.28	98.00	4.40	4.16	1.17	1.62	0 00:05:00
21	Sub-D25	0.25	98.00	4.40	4.16	1.04	1.44	0 00:05:00
22	Sub-D27	0.18	98.00	4.40	4.16	0.75	1.03	0 00:05:00
23	Sub-D28	0.13	98.00	4.40	4.16	0.54	0.74	0 00:05:00
24	Sub-D29	0.78	98.00	4.40	4.16	3.25	4.50	0 00:05:00
25	Sub-D30	0.48	98.00	4.40	4.16	2.00	2.76	0 00:05:00
26	Sub-D31	0.50	98.00	4.40	4.16	2.08	2.87	0 00:05:00
27	Sub-D32	0.52	98.00	4.40	4.16	2.17	2.98	0 00:05:00
28	Sub-D33	0.53	98.00	4.40	4.16	2.21	3.06	0 00:05:00
29	Sub-D34	0.56	98.00	4.40	4.16	2.33	3.24	0 00:05:00
30	Sub-D35	0.34	98.00	4.40	4.16	1.42	1.95	0 00:05:00
31	Sub-D36	0.11	98.00	4.40	4.16	0.46	0.63	0 00:05:00
32	Sub-D37	0.14	98.00	4.40	4.16	0.58	0.81	0 00:05:00
33	Sub-D38	0.77	98.00	4.40	4.16	3.21	4.42	0 00:05:00
34	Sub-D39	0.52	98.00	4.40	4.16	2.17	2.98	0 00:05:00
35	Sub-D40	0.52	98.00	4.40	4.16	2.17	2.98	0 00:05:00
36	Sub-D41	0.52	98.00	4.40	4.16	2.17	2.98	0 00:05:00
37	Sub-D42	0.51	98.00	4.40	4.16	2.12	2.95	0 00:05:00
38	Sub-D43	0.43	98.00	4.40	4.16	1.79	2.47	0 00:05:00
39	Sub-D44	0.70	98.00	4.40	4.16	2.91	4.02	0 00:05:00
40	Sub-D45	0.31	98.00	4.40	4.16	1.29	1.77	0 00:05:00
41	Sub-D46	0.21	98.00	4.40	4.16	0.87	1.22	0 00:05:00
42	Sub-D47	0.19	98.00	4.40	4.16	0.79	1.11	0 00:05:00
43	Sub-D48	0.17	98.00	4.40	4.16	0.71	0.99	0 00:05:00
44	Sub-D49	0.15	98.00	4.40	4.16	0.62	0.85	0 00:05:00
45	Sub-D50	0.19	98.00	4.40	4.16	0.79	1.11	0 00:05:00
46	Sub-D51	0.22	98.00	4.40	4.16	0.92	1.25	0 00:05:00
47	Sub-D52	0.16	98.00	4.40	4.16	0.67	0.92	0 00:05:00
48	Sub-D53	0.19	98.00	4.40	4.16	0.79	1.11	0 00:05:00
49	Sub-D54	0.27	98.00	4.40	4.16	1.12	1.55	0 00:05:00
50	Sub-D55	0.24	98.00	4.40	4.16	1.00	1.40	0 00:05:00
51	Sub-D56	0.09	98.00	4.40	4.16	0.37	0.52	0 00:05:00
52	Sub-D58	0.61	98.00	4.40	4.16	2.54	3.50	0 00:05:00
53	Sub-D60	0.60	98.00	4.40	4.16	2.50	3.46	0 00:05:00
54	Sub-D61	0.12	98.00	4.40	4.16	0.50	0.70	0 00:05:00
55	Sub-POND	1.29	80.00	4.40	2.38	3.07	4.89	0 00:05:00
56	Sub-RD01	0.68	98.00	4.40	4.16	2.83	3.91	0 00:05:00
57	Sub-RD02	0.42	98.00	4.40	4.16	1.75	2.43	0 00:05:00
58	Sub-RD03	0.38	98.00	4.40	4.16	1.58	2.17	0 00:05:00
59	Sub-RD04	0.42	98.00	4.40	4.16	1.75	2.43	0 00:05:00
60	Sub-RD05	0.29	98.00	4.40	4.16	1.21	1.66	0 00:05:00
61	Sub-RD06	0.26	98.00	4.40	4.16	1.08	1.51	0 00:05:00
62	Sub-RD07	0.37	98.00	4.40	4.16	1.54	2.14	0 00:05:00
63	Sub-RD08	0.40	98.00	4.40	4.16	1.67	2.32	0 00:05:00
64	Sub-RD09	0.47	98.00	4.40	4.16	1.96	2.69	0 00:05:00
65	Sub-RD10	0.47	98.00	4.40	4.16	1.96	2.69	0 00:05:00
66	Sub-RD11	0.40	98.00	4.40	4.16	1.67	2.32	0 00:05:00
67	Sub-RD12	0.37	98.00	4.40	4.16	1.54	2.14	0 00:05:00
68	Sub-RD13	0.29	98.00	4.40	4.16	1.21	1.66	0 00:05:00
69	Sub-RD14	0.29	98.00	4.40	4.16	1.21	1.66	0 00:05:00
70	Sub-RD15	0.42	98.00	4.40	4.16	1.75	2.43	0 00:05:00
71	Sub-RD16	0.38	98.00	4.40	4.16	1.58	2.17	0 00:05:00
72	Sub-RD17	0.42	98.00	4.40	4.16	1.75	2.43	0 00:05:00
73	Sub-RD18	0.68	98.00	4.40	4.16	2.83	3.91	0 00:05:00
74	Sub-RD19	0.68	98.00	4.40	4.16	2.83	3.91	0 00:05:00
75	Sub-RD20	0.42	98.00	4.40	4.16	1.75	2.43	0 00:05:00
76	Sub-RD21	0.38	98.00	4.40	4.16	1.58	2.17	0 00:05:00
77	Sub-RD22	0.42	98.00	4.40	4.16	1.75	2.43	0 00:05:00
78	Sub-RD23	0.29	98.00	4.40	4.16	1.21	1.66	0 00:05:00
79	Sub-RD24	0.29	98.00	4.40	4.16	1.21	1.66	0 00:05:00
80	Sub-RD25	0.37	98.00	4.40	4.16	1.54	2.14	0 00:05:00
81	Sub-RD26	0.40	98.00	4.40	4.16	1.67	2.32	0 00:05:00
82	Sub-RD27	0.47	98.00	4.40	4.16	1.96	2.69	0 00:05:00

Subbasin Summary

SN	Subbasin ID	Area (ac)	Weighted Curve Number	Total Rainfall (in)	Total Runoff (in)	Total Runoff Volume (ac-in)	Peak Runoff (cfs)	Time of Concentration (days hh:mm:ss)
83	Sub-RD29	0.47	98.00	4.40	4.16	1.96	2.69	0 00:05:00
84	Sub-RD30	0.40	98.00	4.40	4.16	1.67	2.32	0 00:05:00
85	Sub-RD31	0.37	98.00	4.40	4.16	1.54	2.14	0 00:05:00
86	Sub-RD32	0.29	98.00	4.40	4.16	1.21	1.66	0 00:05:00
87	Sub-RD33	0.29	98.00	4.40	4.16	1.21	1.66	0 00:05:00
88	Sub-RD34	0.42	98.00	4.40	4.16	1.75	2.43	0 00:05:00
89	Sub-RD35	0.38	98.00	4.40	4.16	1.58	2.17	0 00:05:00
90	Sub-RD36	0.42	98.00	4.40	4.16	1.75	2.43	0 00:05:00
91	Sub-RD37	0.68	98.00	4.40	4.16	2.83	3.91	0 00:05:00

Node Summary

SN	Element ID	Element Type	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Initial Water Elevation (ft)	Surcharge Elevation (ft)	Ponded Area (ft²)	Peak Inflow (cfs)	Max HGL Elevation Attained (ft)	Max Surcharge Depth Attained (ft)	Min Freeboard Attained (ft)	Time of Peak Flooding Occurrence (days hh:mm)	Total Flooded Volume (ac-in)	Total Time Flooded (min)
1	(100)	Junction	776.42	772.06	776.42	772.06	0.00	5.88	777.84	0.00	0.08	0 00:00	0.00	0.00
2	(101)	Junction	777.17	772.54	777.17	772.54	0.00	3.84	778.38	0.00	0.04	0 00:00	0.00	0.00
3	(102)	Junction	777.94	773.05	777.94	773.05	0.00	2.05	778.86	0.00	0.08	0 00:00	0.00	0.00
4	(106)	Junction	775.82	771.46	775.82	771.46	0.00	5.56	777.20	0.00	0.12	0 00:00	0.00	0.00
5	(107)	Junction	776.57	771.94	776.57	771.94	0.00	3.28	777.66	0.00	0.16	0 00:00	0.00	0.00
6	(108)	Junction	777.34	772.44	777.34	772.44	0.00	1.65	778.15	0.00	0.19	0 00:00	0.00	0.00
7	(112)	Junction	776.20	771.84	776.20	771.84	0.00	5.88	777.62	0.00	0.08	0 00:00	0.00	0.00
8	(113)	Junction	776.95	772.32	776.95	772.32	0.00	3.84	778.16	0.00	0.04	0 00:00	0.00	0.00
9	(114)	Junction	777.72	772.82	777.72	772.82	0.00	2.05	778.64	0.00	0.08	0 00:00	0.00	0.00
10	(119)	Junction	774.40	770.04	774.40	770.04	0.00	5.88	775.82	0.00	0.08	0 00:00	0.00	0.00
11	(120)	Junction	775.15	770.52	775.15	770.52	0.00	3.84	776.36	0.00	0.04	0 00:00	0.00	0.00
12	(121)	Junction	775.92	771.03	775.92	771.03	0.00	2.05	776.84	0.00	0.08	0 00:00	0.00	0.00
13	(125)	Junction	774.41	770.05	774.41	770.05	0.00	5.56	775.78	0.00	0.13	0 00:00	0.00	0.00
14	(126)	Junction	775.16	770.53	775.16	770.53	0.00	3.28	776.25	0.00	0.16	0 00:00	0.00	0.00
15	(127)	Junction	775.93	771.04	775.93	771.04	0.00	1.65	776.74	0.00	0.19	0 00:00	0.00	0.00
16	(131)	Junction	774.44	770.08	774.44	770.08	0.00	5.89	775.86	0.00	0.08	0 00:00	0.00	0.00
17	(132)	Junction	775.19	770.56	775.19	770.56	0.00	3.84	776.40	0.00	0.04	0 00:00	0.00	0.00
18	(133)	Junction	775.96	771.07	775.96	771.07	0.00	2.05	776.88	0.00	0.08	0 00:00	0.00	0.00
19	(137)	Junction	775.70	771.35	775.70	771.35	0.00	5.88	777.12	0.00	0.08	0 00:00	0.00	0.00
20	(138)	Junction	776.45	771.82	776.45	771.82	0.00	3.84	777.66	0.00	0.04	0 00:00	0.00	0.00
21	(139)	Junction	777.22	772.33	777.22	772.33	0.00	2.05	778.14	0.00	0.08	0 00:00	0.00	0.00
22	(143)	Junction	776.16	771.80	776.16	771.80	0.00	5.56	777.53	0.00	0.13	0 00:00	0.00	0.00
23	(144)	Junction	776.90	772.28	776.90	772.28	0.00	3.28	777.99	0.00	0.17	0 00:00	0.00	0.00
24	(145)	Junction	777.68	772.78	777.68	772.78	0.00	1.65	778.49	0.00	0.19	0 00:00	0.00	0.00
25	(149)	Junction	776.63	772.28	776.63	772.28	0.00	5.89	778.05	0.00	0.08	0 00:00	0.00	0.00
26	(150)	Junction	777.38	772.75	777.38	772.75	0.00	3.84	778.59	0.00	0.04	0 00:00	0.00	0.00
27	(151)	Junction	778.15	773.26	778.15	773.26	0.00	2.05	779.07	0.00	0.08	0 00:00	0.00	0.00
28	(81)	Junction	774.27	770.95	774.27	770.95	0.00	5.99	775.70	0.00	1.07	0 00:00	0.00	0.00
29	(82)	Junction	775.04	770.41	775.04	770.41	0.00	3.84	776.25	0.00	0.04	0 00:00	0.00	0.00
30	(83)	Junction	775.79	770.90	775.79	770.90	0.00	2.05	776.71	0.00	0.08	0 00:00	0.00	0.00
31	(87)	Junction	774.77	770.41	774.77	770.41	0.00	5.40	776.13	0.00	0.14	0 00:00	0.00	0.00
32	(88)	Junction	775.51	770.89	775.51	770.89	0.00	3.13	776.58	0.00	0.19	0 00:00	0.00	0.00
33	(89)	Junction	776.29	771.39	776.29	771.39	0.00	1.50	777.05	0.00	0.24	0 00:00	0.00	0.00
34	(94)	Junction	775.25	770.90	775.25	770.90	0.00	5.89	776.67	0.00	0.08	0 00:00	0.00	0.00
35	(95)	Junction	776.00	771.37	776.00	771.37	0.00	3.84	777.21	0.00	0.04	0 00:00	0.00	0.00
36	(96)	Junction	776.77	771.88	776.77	771.88	0.00	2.05	777.69	0.00	0.08	0 00:00	0.00	0.00
37	D02	Junction	767.94	771.00	767.94	771.00	0.00	13.68	769.50	0.00	2.29	0 00:00	0.00	0.00
38	D04	Junction	768.63	774.75	768.63	774.75	0.00	34.13	771.54	0.00	5.17	0 00:00	0.00	0.00
39	D05	Junction	768.84	775.40	768.84	776.16	225.00	32.04	772.01	0.00	3.39	0 00:00	0.00	0.00
40	D06	Junction	769.06	775.67	769.06	776.16	225.00	31.01	772.48	0.00	3.20	0 00:00	0.00	0.00
41	D07	Junction	769.37	774.54	769.37	774.54	0.00	30.09	772.97	0.00	1.57	0 00:00	0.00	0.00
42	D08	Junction	769.94	771.96	769.94	772.62	1945.00	30.94	773.64	0.00	0.86	0 00:00	0.00	0.00
43	D09	Junction	770.21	772.06	770.21	772.06	0.00	25.84	773.88	0.00	1.12	0 00:00	0.00	0.00
44	D10	Junction	770.99	772.16	770.99	772.16	0.00	28.44	773.99	0.00	0.00	0 12:00	2.56	16.00
45	D11	Junction	771.26	772.26	771.26	772.82	1945.00	26.55	774.36	0.00	1.14	0 00:00	0.00	0.00
46	D12	Junction	771.54	772.36	771.54	772.36	0.00	23.38	774.54	0.00	0.00	0 12:00	0.59	13.00
47	D13	Junction	771.79	776.05	771.79	776.99	4500.00	22.20	775.11	0.00	0.94	0 00:00	0.00	0.00
48	D14	Junction	772.17	775.76	772.17	776.84	3586.00	21.23	775.75	0.00	2.89	0 00:00	0.00	0.00
49	D15	Junction	772.34	776.79	772.34	777.40	223.00	17.88	776.06	0.00	2.24	0 00:00	0.00	0.00
50	D16	Junction	772.52	777.10	772.52	777.63	205.00	16.59	776.32	0.00	0.78	0 00:00	0.00	0.00
51	D17	Junction	772.79	776.75	772.79	778.07	4335.00	16.90	776.62	0.00	0.38	0 00:00	0.00	0.00
52	D18	Junction	773.77	772.45	773.77	773.27	1575.00	13.22	776.77	0.50	0.00	0 11:57	0.24	15.00
53	D19	Junction	774.05	772.55	774.05	773.27	1575.00	9.34	776.78	0.73	0.00	0 11:55	0.33	20.00
54	D20	Junction	774.32	772.65	774.32	773.37	1575.00	11.03	776.79	0.47	0.00	0 11:56	0.23	19.00
55	D21	Junction	774.60	772.75	774.60	772.75	0.00	13.25	776.60	0.00	0.00	0 12:03	2.25	15.00
56	D22	Junction	775.71	776.22	775.71	776.22	0.00	3.42	776.76	0.00	0.45	0 00:00	0.00	0.00
57	D23	Junction	776.26	776.70	776.26	776.70	0.00	2.62	777.12	0.00	0.64	0 00:00	0.00	0.00
58	D24	Junction	777.89	776.12	777.89	776.12	0.00	3.02	778.89	0.00	0.00	0 12:00	0.06	8.00
59	D25	Junction	779.33	776.44	779.33	776.44	0.00	1.44	780.07	0.00	0.26	0 00:00	0.00	0.00
60	D27	Junction	768.65	773.41	768.65	774.80	2500.00	37.31	771.27	0.00	2.14	0 00:00	0.00	0.00
61	D28	Junction	768.72	773.41	768.72	774.80	2500.00	36.42	771.84	0.00	2.08	0 00:00	0.00	0.00
62	D29	Junction	769.20	772.38	769.20	774.80	100300.00	35.35	772.69	0.00	2.31	0 00:00	0.00	0.00
63	D30	Junction	769.47	772.62	769.47	773.17	4064.00	28.14	773.04	0.42	0.00	0 11:57	0.48	22.00
64	D31	Junction	769.75	772.72	769.75	773.27	4064.00	25.86	773.33	0.00	1.67	0 00:00	0.00	0.00
65	D32	Junction	770.02	772.82	770.02	773.37	4064.00	25.51	773.46	0.44	0.00	0 11:51	0.51	26.00
66	D33	Junction	770.30	772.92	770.30	773.47	4064.00	24.04	773.56	0.00	1.44	0 00:00	0.00	0.00
67	D34	Junction	770.57	773.02	770.57	773.02	0.00	23.95	773.57	0.00	0.00	0 12:02	3.69	22.00
68	D35	Junction	771.20	773.46	771.20	773.70	200.00	20.79	773.96	0.26	0.00	0 11:50	0.02	25.00
69	D36	Junction	771.41	776.28	771.41	776.49	212.00	18.93	774.34	0.00	1.94	0 00:00	0.00	0.00
70	D37	Junction	771.49	776.22	771.49	776.49	241.00	16.40	774.48	0.00	3.17	0 00:00	0.00	0.00
71	D38	Junction	771.85	772.65	771.85	776.47	131026.00	16.15	774.65	0.00	1.35	0 00:00	0.00	0.00
72	D39	Junction	772.14	772.79	772.14	772.79	0.00	18.77	774.64	0.00	0.00	0 12:00	4.05	24.00
73	D40	Junction	772.92	772.89	772.92	773.44	3310.00	15.87	775.50	0.00	1.00	0 00:00	0.00	0.00
74	D41	Junction	773.19	772.99	773.19	773.54	3089.00	11.54	775.70	0.51	0.00	0 11:53	0.44	24.00
75	D42	Junction	773.47	773.09	773.47	773.64	3516.00	9.84	775.79	0.00	1.21	0 00:00	0.00	0.00
76	D43	Junction	773.74	773.19	773.74	773.19	0.00	11.20	775.74	0.00	0.00	0 12:00	1.85	16.00
77	D44	Junction	773.88	773.55	773.88	773.55	0.00	5.71	775.82	0.00	0.06	0 00:00	0.00	0.00
78	D45	Junction	775.52	776.40	775.52	777.27	7643.00	1.77	776.36	0.00	0.16	0 00:00	0.00	0.00
79	D46	Junction	774.93	776.01	774.93	776.01	0.00	5.18	776.24	0.00	0.19	0 00:00	0.00	0.00
80	D47	Junction	775.70	775.90	775.70	775.90	0.00	4.02	776.82	0.00	0.38	0 00:00	0.00	0.00
81	D48	Junction	776.08	774.35	776.08	774.35	0.00	2.91	777.10	0.00	0.23	0 00:00	0.00	0.00

Node Summary

SN	Element ID	Element Type	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Initial Water Elevation (ft)	Surcharge Elevation (ft)	Ponded Area (ft²)	Peak Inflow (cfs)	Max HGL Elevation Attained (ft)	Max Surcharge Depth Attained (ft)	Min Freeboard Attained (ft)	Time of Peak Flooding Occurrence (days hh:mm)	Total Flooded Volume (ac-in)	Total Time Flooded (min)
82	D49	Junction	776.63	774.35	776.63	774.35	0.00	1.94	777.53	0.00	0.10	0 00:00	0.00	0.00
83	D50	Junction	776.82	776.38	776.82	776.38	0.00	1.10	777.57	0.00	0.25	0 00:00	0.00	0.00
84	D51	Junction	778.29	776.85	778.29	776.85	0.00	1.25	778.95	0.00	0.34	0 00:00	0.00	0.00
85	D52	Junction	778.47	776.52	778.47	776.52	0.00	0.92	779.01	0.00	0.46	0 00:00	0.00	0.00
86	D53	Junction	776.89	775.58	776.89	775.58	0.00	1.10	777.33	0.00	1.06	0 00:00	0.00	0.00
87	D54	Junction	777.35	775.40	777.35	775.40	0.00	1.55	778.11	0.00	0.24	0 00:00	0.00	0.00
88	D55	Junction	778.32	775.39	778.32	775.39	0.00	1.40	779.04	0.00	0.28	0 00:00	0.00	0.00
89	D56	Junction	775.84	775.74	775.84	775.80	1000.00	0.52	776.17	0.00	0.67	0 00:00	0.00	0.00
90	D58	Junction	770.00	767.01	770.00	767.01	0.00	3.50	771.00	0.00	0.00	0 12:33	1.36	84.00
91	D60	Junction	768.75	773.70	768.75	773.70	0.00	26.29	773.70	0.00	0.00	0 05:55	0.34	2.00
92	D61	Junction	768.90	773.70	768.90	773.72	0.00	20.43	773.72	0.02	0.00	0 05:03	0.04	1.00
93	RD01	Junction	775.84	770.95	775.84	770.95	0.00	3.90	776.84	0.00	0.00	0 12:00	0.25	15.00
94	RD02	Junction	775.34	770.45	775.34	770.45	0.00	2.43	776.34	0.00	0.00	0 12:00	0.05	9.00
95	RD03	Junction	775.82	770.93	775.82	770.93	0.00	2.17	776.78	0.00	0.04	0 00:00	0.00	0.00
96	RD04	Junction	775.32	770.42	775.32	770.42	0.00	2.43	776.32	0.00	0.00	0 12:00	0.00	2.00
97	RD05	Junction	775.82	770.92	775.82	770.92	0.00	1.66	776.68	0.00	0.14	0 00:00	0.00	0.00
98	RD06	Junction	776.34	771.44	776.34	771.44	0.00	1.51	777.15	0.00	0.19	0 00:00	0.00	0.00
99	RD07	Junction	775.80	770.91	775.80	770.91	0.00	2.14	776.80	0.00	0.00	0 12:00	0.00	1.00
100	RD08	Junction	776.30	771.41	776.30	771.41	0.00	2.32	777.30	0.00	0.00	0 12:00	0.04	8.00
101	RD09	Junction	776.82	771.93	776.82	771.93	0.00	2.69	777.82	0.00	0.00	0 12:00	0.05	8.00
102	RD10	Junction	776.01	771.12	776.01	771.12	0.00	2.69	777.01	0.00	0.00	0 12:00	0.05	8.00
103	RD11	Junction	775.49	770.60	775.49	770.60	0.00	2.32	776.49	0.00	0.00	0 12:00	0.04	8.00
104	RD12	Junction	774.99	770.10	774.99	770.10	0.00	2.14	775.99	0.00	0.00	0 12:00	0.00	1.00
105	RD13	Junction	775.98	771.09	775.98	771.09	0.00	1.66	776.84	0.00	0.14	0 00:00	0.00	0.00
106	RD14	Junction	775.46	770.56	775.46	770.56	0.00	1.66	776.35	0.00	0.11	0 00:00	0.00	0.00
107	RD15	Junction	774.96	770.07	774.96	770.07	0.00	2.43	775.96	0.00	0.00	0 12:00	0.00	2.00
108	RD16	Junction	775.97	771.08	775.97	771.08	0.00	2.17	776.97	0.00	0.00	0 12:00	0.00	2.00
109	RD17	Junction	775.45	770.55	775.45	770.55	0.00	2.43	776.45	0.00	0.00	0 12:00	0.04	7.00
110	RD18	Junction	774.95	770.06	774.95	770.06	0.00	3.90	775.95	0.00	0.00	0 12:00	0.22	13.00
111	RD19	Junction	776.97	772.08	776.97	772.08	0.00	3.90	777.97	0.00	0.00	0 12:00	0.22	13.00
112	RD20	Junction	777.47	772.57	777.47	772.57	0.00	2.43	778.47	0.00	0.00	0 12:00	0.04	7.00
113	RD21	Junction	777.99	773.10	777.99	773.10	0.00	2.17	778.99	0.00	0.00	0 12:00	0.00	2.00
114	RD22	Junction	776.37	771.47	776.37	771.47	0.00	2.43	777.37	0.00	0.00	0 12:00	0.00	2.00
115	RD23	Junction	776.87	771.97	776.87	771.97	0.00	1.66	777.76	0.00	0.11	0 00:00	0.00	0.00
116	RD24	Junction	777.39	772.49	777.39	772.49	0.00	1.66	778.25	0.00	0.14	0 00:00	0.00	0.00
117	RD25	Junction	776.75	771.85	776.75	771.85	0.00	2.14	777.75	0.00	0.00	0 12:00	0.00	1.00
118	RD26	Junction	777.25	772.35	777.25	772.35	0.00	2.32	778.25	0.00	0.00	0 12:00	0.04	8.00
119	RD27	Junction	777.77	772.87	777.77	772.87	0.00	2.69	778.77	0.00	0.00	0 12:00	0.05	8.00
120	RD29	Junction	778.20	773.31	778.20	773.31	0.00	2.69	779.20	0.00	0.00	0 12:00	0.05	8.00
121	RD30	Junction	777.68	772.79	777.68	772.79	0.00	2.32	778.68	0.00	0.00	0 12:00	0.04	8.00
122	RD31	Junction	777.18	772.29	777.18	772.29	0.00	2.14	778.18	0.00	0.00	0 12:00	0.00	1.00
123	RD32	Junction	777.73	772.83	777.73	772.83	0.00	1.66	778.59	0.00	0.14	0 00:00	0.00	0.00
124	RD33	Junction	777.21	772.31	777.21	772.31	0.00	1.66	778.09	0.00	0.12	0 00:00	0.00	0.00
125	RD34	Junction	776.71	771.81	776.71	771.81	0.00	2.43	777.71	0.00	0.00	0 12:00	0.00	2.00
126	RD35	Junction	777.27	772.38	777.27	772.38	0.00	2.17	778.27	0.00	0.00	0 12:00	0.00	2.00
127	RD36	Junction	776.75	771.86	776.75	771.86	0.00	2.43	777.75	0.00	0.00	0 12:00	0.04	7.00
128	RD37	Junction	773.25	771.36	773.25	771.36	0.00	3.90	777.25	0.00	0.00	0 12:00	0.22	13.00
129	D01	Outfall	764.40					13.68	764.40					
130	POND	Storage Node	768.00	772.00	768.00		100290.00	83.40	771.10				0.00	0.00

Link Summary

SN	Element ID	Element Type	From (Inlet) Node	To (Outlet) Node	Length (ft)	Inlet Invert Elevation (ft)	Outlet Invert Elevation (ft)	Average Slope (%)	Diameter or Height (in)	Manning's Roughness	Peak Flow (cfs)	Peak Flow Velocity (ft/sec)	Peak Flow Depth (ft)	Total Time Surcharged (min)
1	Link-01	Pipe	D60	POND	49.90	771.00	767.00	8.0200	12.000	0.0150	32.71	50.00	0.87	0.00
2	Link-02	Pipe	D61	D60	30.20	768.90	768.75	0.5000	12.000	0.0150	26.28	50.00	1.00	946.00
3	Link-03	Pipe	D02	D01	54.17	767.94	767.40	1.0000	24.000	0.0150	13.68	5.84	1.40	0.00
4	P(100)	Pipe	(113)	(112)	49.86	776.95	776.45	1.0000	15.000	0.0120	3.82	3.27	1.19	0.00
5	P(101)	Pipe	(114)	(113)	52.12	777.72	777.20	1.0000	12.000	0.0120	2.04	2.92	0.94	0.00
6	P(102)	Pipe	RD27	(114)	5.00	777.77	777.72	1.0000	12.000	0.0120	2.05	2.65	0.96	0.00
7	P(103)	Pipe	RD26	(113)	5.00	777.25	777.20	1.0000	12.000	0.0120	1.81	2.77	0.98	0.00
8	P(104)	Pipe	RD25	(112)	5.00	776.75	776.70	1.0000	12.000	0.0120	2.06	2.94	0.96	0.00
9	P(105)	Pipe	(119)	D29	90.03	774.40	773.50	1.0000	18.000	0.0120	5.87	4.26	1.09	0.00
10	P(106)	Pipe	(120)	(119)	49.86	775.15	774.65	1.0000	15.000	0.0120	3.82	3.18	1.19	0.00
11	P(107)	Pipe	(121)	(120)	52.12	775.92	775.40	1.0000	12.000	0.0120	2.04	2.74	0.94	0.00
12	P(108)	Pipe	RD16	(121)	5.00	775.97	775.92	1.0000	12.000	0.0120	2.05	2.65	0.96	0.00
13	P(109)	Pipe	RD17	(120)	5.00	775.45	775.40	1.0000	12.000	0.0120	1.98	2.86	0.98	0.00
14	P(110)	Pipe	RD18	(119)	5.00	774.95	774.90	1.0000	12.000	0.0120	2.29	3.15	0.96	0.00
15	P(111)	Pipe	(125)	D31	91.03	774.41	773.50	1.0000	18.000	0.0120	5.54	4.17	1.05	0.00
16	P(112)	Pipe	(126)	(125)	49.86	775.16	774.66	1.0000	15.000	0.0120	3.27	3.12	1.10	0.00
17	P(113)	Pipe	(127)	(126)	52.12	775.93	775.41	1.0000	12.000	0.0120	1.64	2.79	0.82	0.00
18	P(114)	Pipe	RD13	(127)	5.00	775.98	775.93	1.0000	12.000	0.0120	1.65	2.35	0.83	0.00
19	P(115)	Pipe	RD14	(126)	5.00	775.46	775.41	1.0000	12.000	0.0120	1.65	2.82	0.86	0.00
20	P(116)	Pipe	RD15	(125)	5.00	774.96	774.91	1.0000	12.000	0.0120	2.29	3.05	0.93	0.00
21	P(117)	Pipe	(131)	D33	94.06	774.44	773.50	1.0000	18.000	0.0120	5.87	4.26	1.09	0.00
22	P(118)	Pipe	(132)	(131)	49.86	775.19	774.69	1.0000	15.000	0.0120	3.82	3.27	1.19	0.00
23	P(119)	Pipe	(133)	(132)	52.12	775.96	775.44	1.0000	12.000	0.0120	2.04	2.92	0.94	0.00
24	P(120)	Pipe	RD10	(133)	5.00	776.01	775.96	1.0000	12.000	0.0120	2.05	2.65	0.96	0.00
25	P(121)	Pipe	RD11	(132)	5.00	775.49	775.44	1.0000	12.000	0.0120	1.81	2.77	0.98	0.00
26	P(122)	Pipe	RD12	(131)	5.00	774.99	774.94	1.0000	12.000	0.0120	2.07	2.94	0.96	0.00
27	P(123)	Pipe	(137)	D38	120.37	775.70	774.50	1.0000	18.000	0.0120	5.87	4.26	1.09	0.00
28	P(124)	Pipe	(138)	(137)	49.86	776.45	775.95	1.0000	15.000	0.0120	3.82	3.18	1.19	0.00
29	P(125)	Pipe	(139)	(138)	52.12	777.22	776.70	1.0000	12.000	0.0120	2.04	2.74	0.94	0.00
30	P(126)	Pipe	RD35	(139)	5.00	777.27	777.22	1.0000	12.000	0.0120	2.05	2.65	0.96	0.00
31	P(127)	Pipe	RD36	(138)	5.00	776.75	776.70	1.0000	12.000	0.0120	1.98	2.86	0.98	0.00
32	P(128)	Pipe	RD37	(137)	5.00	776.25	776.20	1.0000	12.000	0.0120	2.29	3.15	0.96	0.00
33	P(129)	Pipe	(143)	D40	115.56	776.16	775.00	1.0000	18.000	0.0120	5.53	4.17	1.04	0.00
34	P(130)	Pipe	(144)	(143)	49.86	776.90	776.41	0.9800	15.000	0.0120	3.27	3.12	1.10	0.00
35	P(131)	Pipe	(145)	(144)	52.12	777.68	777.16	1.0000	12.000	0.0120	1.64	2.79	0.82	0.00
36	P(132)	Pipe	RD32	(145)	5.00	777.73	777.68	1.0000	12.000	0.0120	1.65	2.35	0.83	0.00
37	P(133)	Pipe	RD33	(144)	5.03	777.21	777.16	0.9900	12.000	0.0120	1.65	2.82	0.85	0.00
38	P(134)	Pipe	RD34	(143)	5.00	776.71	776.66	1.0000	12.000	0.0120	2.29	3.06	0.93	0.00
39	P(135)	Pipe	(149)	D42	113.42	776.63	775.50	1.0000	18.000	0.0120	5.87	4.26	1.09	0.00
40	P(136)	Pipe	(150)	(149)	49.86	777.38	776.88	1.0000	15.000	0.0120	3.82	3.28	1.19	0.00
41	P(137)	Pipe	(151)	(150)	52.12	778.15	777.63	1.0000	12.000	0.0120	2.04	2.92	0.94	0.00
42	P(138)	Pipe	RD29	(151)	5.00	778.20	778.15	1.0000	12.000	0.0120	2.05	2.65	0.96	0.00
43	P(139)	Pipe	RD30	(150)	5.00	777.68	777.63	1.0000	12.000	0.0120	1.81	2.77	0.98	0.00
44	P(140)	Pipe	RD31	(149)	5.00	777.18	777.13	1.0000	12.000	0.0120	2.07	2.94	0.96	0.00
45	P(15)	Pipe	D58	POND	58.56	770.00	768.50	2.5600	12.000	0.0120	3.48	4.44	1.00	83.00
46	P(16)	Pipe	D07	D06	123.16	769.37	769.06	0.2500	36.000	0.0120	30.07	4.25	3.00	19.00
47	P(16) (1)	Pipe	D08	D07	226.84	769.94	769.37	0.2500	36.000	0.0120	30.09	4.26	3.00	20.00
48	P(17)	Pipe	D09	D08	110.00	770.21	769.94	0.2500	36.000	0.0120	25.74	3.64	3.00	20.00
49	P(18)	Pipe	D10	D09	110.00	770.99	770.21	0.7100	36.000	0.0120	22.97	3.41	3.00	16.00
50	P(19)	Pipe	D11	D10	110.00	771.26	770.99	0.2500	36.000	0.0120	26.54	3.75	3.00	15.00
51	P(20)	Pipe	D12	D11	110.00	771.54	771.26	0.2500	36.000	0.0120	20.42	3.20	3.00	13.00
52	P(23)	Pipe	D18	D17	192.59	773.77	773.29	0.2500	30.000	0.0120	13.16	3.81	2.50	15.00
53	P(24)	Pipe	D19	D18	110.00	774.05	773.77	0.2500	24.000	0.0120	10.72	3.43	2.00	20.00
54	P(25)	Pipe	D20	D19	110.00	774.32	774.05	0.2500	24.000	0.0120	8.11	2.77	2.00	19.00
55	P(26)	Pipe	D21	D20	110.00	774.60	774.32	0.2500	24.000	0.0120	7.38	2.35	2.00	15.00
56	P(27)	Pipe	D22	D21	121.80	775.71	775.10	0.5000	18.000	0.0120	3.44	2.91	1.27	0.00
57	P(28)	Pipe	D23	D22	110.16	776.26	775.71	0.5000	18.000	0.0120	2.61	2.46	0.95	0.00
58	P(29)	Pipe	D24	D23	113.60	777.89	776.76	0.9900	12.000	0.0120	2.29	3.49	0.78	0.00
59	P(30)	Pipe	D25	D24	144.00	779.33	777.89	1.0000	12.000	0.0120	1.41	1.95	0.86	0.00
60	P(31)	Pipe	D27	POND	58.17	768.65	768.50	0.2600	48.000	0.0120	37.31	5.21	2.53	0.00
61	P(32)	Pipe	D28	D27	30.00	768.72	768.65	0.2300	36.000	0.0120	36.42	5.29	2.80	0.00
62	P(33)	Pipe	D29	D28	191.79	769.20	768.72	0.2500	36.000	0.0120	35.36	5.00	3.00	12.00
63	P(34)	Pipe	D30	D29	110.00	769.47	769.20	0.2500	36.000	0.0120	28.70	4.06	3.00	23.00
64	P(35)	Pipe	D31	D30	110.00	769.75	769.47	0.2500	36.000	0.0120	25.92	3.68	3.00	25.00
65	P(36)	Pipe	D32	D31	110.00	770.02	769.75	0.2500	36.000	0.0120	24.60	3.48	3.00	26.00
66	P(37)	Pipe	D33	D32	110.00	770.30	770.02	0.2500	36.000	0.0120	24.03	3.40	3.00	25.00
67	P(38)	Pipe	D34	D33	110.00	770.57	770.30	0.2500	36.000	0.0120	19.23	2.85	3.00	22.00
68	P(39)	Pipe	D35	D34	50.09	771.20	771.07	0.2600	30.000	0.0120	20.79	4.23	2.50	22.00
69	P(39) (1)	Pipe	D36	D35	84.79	771.41	771.20	0.2500	30.000	0.0120	18.87	3.84	2.50	25.00
70	P(40)	Pipe	D37	D36	30.63	771.49	771.41	0.2600	30.000	0.0120	15.90	3.24	2.50	25.00
71	P(41)	Pipe	D38	D37	145.53	771.85	771.49	0.2500	30.000	0.0120	15.52	3.16	2.50	25.00
72	P(42)	Pipe	D39	D38	115.67	772.14	771.85	0.2500	30.000	0.0120	11.37	2.38	2.50	24.00
73	P(43)	Pipe	D40	D39	110.00	772.92	772.64	0.2500	24.000	0.0120	15.86	5.05	2.00	24.00
74	P(44)	Pipe	D41	D40	110.00	773.19	772.92	0.2500	24.000	0.0120	9.71	3.09	2.00	24.00
75	P(45)	Pipe	D42	D41	110.00	773.47	773.19	0.2500	24.000	0.0120	9.77	3.11	2.00	21.00
76	P(46)	Pipe	D43	D42	110.00	773.74	773.47	0.2500	24.000	0.0120	4.20	1.62	2.00	16.00
77	P(47)	Pipe	D44	D43	55.00	773.88	773.74	0.2500	24.000	0.0120	5.75	1.84	1.97	0.00
78	P(48)	Pipe	D45	D44	255.74	775.52	774.88	0.2500	12.000	0.0120	1.75	2.37	0.89	0.00
79	P(49)	Pipe	D13	D12	100.80	771.79	771.54	0.2500	30.000	0.0120	22.20	4.52	2.50	19.00
80	P(50)	Pipe	D14	D13	152.05	772.17	771.79	0.2500	30.000	0.0120	21.24	4.33	2.50	20.00
81	P(51)	Pipe	D53	D14	108.00	776.89	775.81	1.0000	18.000	0.0120	1.08	3.09	0.37	0.00

Link Summary

SN	Element ID	Element Type	From (Inlet) Node	To (Outlet) Node	Length	Inlet Invert Elevation	Outlet Invert Elevation	Average Slope	Diameter or Height	Manning's Roughness	Peak Flow	Peak Flow Velocity	Peak Flow Depth	Total Time Surcharged
					(ft)	(ft)	(ft)	(%)	(in)		(cfs)	(ft/sec)	(ft)	(min)
82	P(53)	Pipe	D16	D15	70.60	772.52	772.34	0.2500	30.000	0.0120	16.59	3.38	2.50	21.00
83	P(54)	Pipe	D52	D15	117.00	778.47	777.30	1.0000	12.000	0.0120	0.88	2.94	0.41	0.00
84	P(55)	Pipe	D51	D37	163.40	778.29	776.65	1.0000	12.000	0.0120	1.20	2.94	0.51	0.00
85	P(56)	Pipe	D46	D36	161.45	774.93	773.31	1.0000	18.000	0.0120	5.15	3.50	1.16	0.00
86	P(57)	Pipe	D47	D46	76.76	775.70	774.93	1.0000	18.000	0.0120	3.99	2.61	1.20	0.00
87	P(58)	Pipe	D48	D47	13.14	776.08	775.95	0.9900	15.000	0.0120	2.92	3.27	0.94	0.00
88	P(59)	Pipe	D49	D48	29.92	776.63	776.33	1.0000	12.000	0.0120	1.93	2.94	0.83	0.00
89	P(60)	Pipe	D50	D49	13.28	776.82	776.63	1.4300	12.000	0.0120	1.09	1.65	0.82	0.00
90	P(61)	Pipe	D04	POND	52.97	768.63	768.50	0.2500	36.000	0.0120	34.11	5.62	2.54	0.00
91	P(62)	Pipe	D05	D04	82.14	768.83	768.63	0.2400	36.000	0.0120	32.04	4.55	2.95	0.00
92	P(63)	Pipe	D06	D05	90.00	769.05	768.83	0.2400	36.000	0.0120	31.01	4.39	3.00	15.00
93	P(64)	Pipe	D17	D16	108.60	772.79	772.52	0.2500	30.000	0.0120	16.38	3.34	2.50	22.00
94	P(65)	Pipe	D55	D14	67.82	778.32	777.64	1.0000	12.000	0.0120	1.37	2.99	0.56	0.00
95	P(66)	Pipe	D54	D04	82.14	777.35	775.71	2.0000	12.000	0.0120	1.52	3.33	0.56	0.00
96	P(67)	Pipe	D56	D28	46.08	773.84	772.92	2.0000	12.000	0.0120	0.51	3.47	0.24	0.00
97	P(68)	Pipe	D15	D14	69.52	772.34	772.17	0.2400	30.000	0.0120	17.83	3.63	2.50	20.00
98	P(69)	Pipe	(81)	D08	127.13	774.27	773.00	1.0000	18.000	0.0120	5.96	4.28	1.10	0.00
99	P(70)	Pipe	(82)	(81)	52.12	775.04	774.52	1.0000	15.000	0.0120	3.82	3.28	1.19	0.00
100	P(71)	Pipe	(83)	(82)	49.86	775.79	775.29	1.0000	12.000	0.0120	2.04	2.94	0.94	0.00
101	P(72)	Pipe	RD01	(83)	5.00	775.84	775.79	1.0000	12.000	0.0120	2.05	2.65	0.96	0.00
102	P(73)	Pipe	RD02	(82)	5.00	775.34	775.29	1.0000	12.000	0.0120	1.80	2.65	0.98	0.00
103	P(74)	Pipe	RD03	(81)	5.00	775.82	775.77	1.0000	12.000	0.0120	2.17	3.44	0.75	0.00
104	P(75)	Pipe	(87)	D09	126.56	774.77	773.50	1.0000	18.000	0.0120	5.44	4.15	1.02	0.00
105	P(76)	Pipe	(88)	(87)	49.86	775.51	775.02	0.9800	15.000	0.0120	3.11	3.11	1.06	0.00
106	P(77)	Pipe	(89)	(88)	52.12	776.29	775.77	1.0000	12.000	0.0120	1.49	2.76	0.77	0.00
107	P(78)	Pipe	RD06	(89)	5.00	776.34	776.29	1.0000	12.000	0.0120	1.50	2.28	0.78	0.00
108	P(79)	Pipe	RD05	(88)	5.00	775.82	775.77	1.0000	12.000	0.0120	1.65	2.85	0.82	0.00
109	P(80)	Pipe	RD04	(87)	5.00	775.32	775.27	1.0000	12.000	0.0120	2.29	3.09	0.91	0.00
110	P(81)	Pipe	(94)	D11	125.15	775.25	774.00	1.0000	18.000	0.0120	5.87	4.26	1.09	0.00
111	P(82)	Pipe	(95)	(94)	49.86	776.00	775.50	1.0000	15.000	0.0120	3.82	3.28	1.19	0.00
112	P(83)	Pipe	(96)	(95)	52.12	776.77	776.25	1.0000	12.000	0.0120	2.04	2.92	0.94	0.00
113	P(84)	Pipe	RD09	(96)	5.00	776.82	776.77	1.0000	12.000	0.0120	2.05	2.65	0.96	0.00
114	P(85)	Pipe	RD08	(95)	5.00	776.30	776.25	1.0000	12.000	0.0120	1.81	2.77	0.98	0.00
115	P(86)	Pipe	RD07	(94)	5.00	775.80	775.75	1.0000	12.000	0.0120	2.07	2.94	0.96	0.00
116	P(87)	Pipe	(100)	D17	92.04	776.42	775.50	1.0000	18.000	0.0120	5.87	4.24	1.25	0.00
117	P(88)	Pipe	(101)	(100)	49.86	777.17	776.67	1.0000	15.000	0.0120	3.82	3.18	1.19	0.00
118	P(89)	Pipe	(102)	(101)	52.12	777.94	777.42	1.0000	12.000	0.0120	2.04	2.74	0.94	0.00
119	P(90)	Pipe	RD21	(102)	5.00	777.99	777.94	1.0000	12.000	0.0120	2.05	2.65	0.96	0.00
120	P(91)	Pipe	RD20	(101)	5.00	777.47	777.42	1.0000	12.000	0.0120	1.98	2.86	0.98	0.00
121	P(92)	Pipe	RD19	(100)	5.00	776.97	776.92	1.0000	12.000	0.0120	2.29	3.15	0.96	0.00
122	P(93)	Pipe	(106)	D18	154.50	775.82	774.27	1.0000	18.000	0.0120	5.54	3.18	1.43	0.00
123	P(94)	Pipe	(107)	(106)	49.86	776.57	776.07	1.0000	15.000	0.0120	3.27	3.11	1.10	0.00
124	P(95)	Pipe	(108)	(107)	52.12	777.34	776.82	1.0000	12.000	0.0120	1.64	2.79	0.82	0.00
125	P(96)	Pipe	RD24	(108)	5.00	777.39	777.34	1.0000	12.000	0.0120	1.65	2.35	0.83	0.00
126	P(97)	Pipe	RD23	(107)	5.00	776.87	776.82	1.0000	12.000	0.0120	1.65	2.82	0.86	0.00
127	P(98)	Pipe	RD22	(106)	5.00	776.37	776.32	1.0000	12.000	0.0120	2.29	3.05	0.93	0.00
128	P(99)	Pipe	(112)	D20	137.40	776.20	774.82	1.0000	18.000	0.0120	5.87	3.47	1.46	0.00
129	Orifice-WQv	Orifice	POND	D02		768.00	767.94		6.100		1.47			
130	Weir-RIM	Weir	POND	D02		768.00	767.94				12.41			
131	Weir-Spillway	Weir	POND	D02		768.00	767.94				0.00			

Junction Input

SN	Element ID	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Surcharge Elevation (ft)	Surcharge Depth (ft)	Ponded Area (ft²)	Minimum Pipe Cover (in)
1	(100)	776.42	772.06	-4.36	772.06	0.00	0.00	0.00
2	(101)	777.17	772.54	-4.63	772.54	0.00	0.00	0.00
3	(102)	777.94	773.05	-4.89	773.05	0.00	0.00	0.00
4	(106)	775.82	771.46	-4.36	771.46	0.00	0.00	0.00
5	(107)	776.57	771.94	-4.63	771.94	0.00	0.00	0.00
6	(108)	777.34	772.44	-4.90	772.44	0.00	0.00	0.00
7	(112)	776.20	771.84	-4.36	771.84	0.00	0.00	0.00
8	(113)	776.95	772.32	-4.63	772.32	0.00	0.00	0.00
9	(114)	777.72	772.82	-4.90	772.82	0.00	0.00	0.00
10	(119)	774.40	770.04	-4.36	770.04	0.00	0.00	0.00
11	(120)	775.15	770.52	-4.63	770.52	0.00	0.00	0.00
12	(121)	775.92	771.03	-4.89	771.03	0.00	0.00	0.00
13	(125)	774.41	770.05	-4.36	770.05	0.00	0.00	0.00
14	(126)	775.16	770.53	-4.63	770.53	0.00	0.00	0.00
15	(127)	775.93	771.04	-4.89	771.04	0.00	0.00	0.00
16	(131)	774.44	770.08	-4.36	770.08	0.00	0.00	0.00
17	(132)	775.19	770.56	-4.63	770.56	0.00	0.00	0.00
18	(133)	775.96	771.07	-4.89	771.07	0.00	0.00	0.00
19	(137)	775.70	771.35	-4.35	771.35	0.00	0.00	0.00
20	(138)	776.45	771.82	-4.63	771.82	0.00	0.00	0.00
21	(139)	777.22	772.33	-4.89	772.33	0.00	0.00	0.00
22	(143)	776.16	771.80	-4.36	771.80	0.00	0.00	0.00
23	(144)	776.90	772.28	-4.62	772.28	0.00	0.00	0.00
24	(145)	777.68	772.78	-4.90	772.78	0.00	0.00	0.00
25	(149)	776.63	772.28	-4.35	772.28	0.00	0.00	0.00
26	(150)	777.38	772.75	-4.63	772.75	0.00	0.00	0.00
27	(151)	778.15	773.26	-4.89	773.26	0.00	0.00	0.00
28	(81)	774.27	770.95	-3.32	770.95	0.00	0.00	0.00
29	(82)	775.04	770.41	-4.63	770.41	0.00	0.00	0.00
30	(83)	775.79	770.90	-4.89	770.90	0.00	0.00	0.00
31	(87)	774.77	770.41	-4.36	770.41	0.00	0.00	0.00
32	(88)	775.51	770.89	-4.62	770.89	0.00	0.00	0.00
33	(89)	776.29	771.39	-4.90	771.39	0.00	0.00	0.00
34	(94)	775.25	770.90	-4.35	770.90	0.00	0.00	0.00
35	(95)	776.00	771.37	-4.63	771.37	0.00	0.00	0.00
36	(96)	776.77	771.88	-4.89	771.88	0.00	0.00	0.00
37	D02	767.94	771.00	3.06	771.00	0.00	0.00	0.00
38	D04	768.63	774.75	6.12	774.75	0.00	0.00	0.00
39	D05	768.84	775.40	6.56	776.16	0.76	225.00	42.89
40	D06	769.06	775.67	6.61	776.16	0.49	225.00	43.37
41	D07	769.37	774.54	5.17	774.54	0.00	0.00	26.01
42	D08	769.94	771.96	2.02	772.62	0.66	1945.00	0.00
43	D09	770.21	772.06	1.85	772.06	0.00	0.00	0.00
44	D10	770.99	772.16	1.17	772.16	0.00	0.00	0.00
45	D11	771.26	772.26	1.00	772.82	0.56	1945.00	0.00
46	D12	771.54	772.36	0.82	772.36	0.00	0.00	0.00
47	D13	771.79	776.05	4.26	776.99	0.95	4500.00	21.06
48	D14	772.17	775.76	3.59	776.84	1.08	3586.00	0.00
49	D15	772.34	776.79	4.45	777.40	0.61	223.00	0.00
50	D16	772.52	777.10	4.58	777.63	0.53	205.00	25.01
51	D17	772.79	776.75	3.96	778.07	1.32	4335.00	0.00
52	D18	773.77	772.45	-1.32	773.27	0.82	1575.00	0.00
53	D19	774.05	772.55	-1.50	773.27	0.72	1575.00	0.00
54	D20	774.32	772.65	-1.67	773.37	0.72	1575.00	0.00
55	D21	774.60	772.75	-1.85	772.75	0.00	0.00	0.00
56	D22	775.71	776.22	0.51	776.22	0.00	0.00	0.00
57	D23	776.26	776.70	0.44	776.70	0.00	0.00	0.00
58	D24	777.89	776.12	-1.77	776.12	0.00	0.00	0.00
59	D25	779.33	776.44	-2.89	776.44	0.00	0.00	0.00
60	D27	768.65	773.41	4.76	774.80	1.39	2500.00	9.12
61	D28	768.72	773.41	4.69	774.80	1.39	2500.00	0.00
62	D29	769.20	772.38	3.18	774.80	2.42	100300.00	0.00
63	D30	769.47	772.62	3.15	773.17	0.55	4064.00	1.76
64	D31	769.75	772.72	2.97	773.27	0.55	4064.00	0.00
65	D32	770.02	772.82	2.80	773.37	0.55	4064.00	0.00
66	D33	770.30	772.92	2.62	773.47	0.55	4064.00	0.00
67	D34	770.57	773.02	2.45	773.02	0.00	0.00	0.00
68	D35	771.20	773.46	2.26	773.70	0.24	200.00	0.00
69	D36	771.41	776.28	4.87	776.49	0.21	212.00	17.64
70	D37	771.49	776.22	4.73	776.49	0.27	241.00	0.00
71	D38	771.85	772.65	0.80	776.47	3.82	131026.00	0.00
72	D39	772.14	772.79	0.65	772.79	0.00	0.00	0.00
73	D40	772.92	772.89	-0.03	773.44	0.55	3310.00	0.00
74	D41	773.19	772.99	-0.20	773.54	0.55	3089.00	0.00
75	D42	773.47	773.09	-0.38	773.64	0.55	3516.00	0.00
76	D43	773.74	773.19	-0.55	773.19	0.00	0.00	0.00
77	D44	773.88	773.55	-0.33	773.55	0.00	0.00	0.00
78	D45	775.52	776.40	0.88	777.27	0.87	7643.00	0.00
79	D46	774.93	776.01	1.08	776.01	0.00	0.00	0.00
80	D47	775.70	775.90	0.20	775.90	0.00	0.00	0.00
81	D48	776.08	774.35	-1.73	774.35	0.00	0.00	0.00
82	D49	776.63	774.35	-2.28	774.35	0.00	0.00	0.00

Junction Input

SN	Element ID	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Surcharge Elevation (ft)	Surcharge Depth (ft)	Ponded Area (ft²)	Minimum Pipe Cover (in)
83	D50	776.82	776.38	-0.44	776.38	0.00	0.00	0.00
84	D51	778.29	776.85	-1.44	776.85	0.00	0.00	0.00
85	D52	778.47	776.52	-1.96	776.52	0.00	0.00	0.00
86	D53	776.89	775.58	-1.31	775.58	0.00	0.00	0.00
87	D54	777.35	775.40	-1.95	775.40	0.00	0.00	0.00
88	D55	778.32	775.39	-2.93	775.39	0.00	0.00	0.00
89	D56	775.84	775.74	-0.10	775.80	0.06	1000.00	10.76
90	D58	770.00	767.01	-2.99	767.01	0.00	0.00	0.00
91	D60	768.75	773.70	4.95	773.70	0.00	0.00	20.40
92	D61	768.90	773.70	4.80	773.72	0.02	0.00	45.60
93	RD01	775.84	770.95	-4.89	770.95	0.00	0.00	0.00
94	RD02	775.34	770.45	-4.89	770.45	0.00	0.00	0.00
95	RD03	775.82	770.93	-4.89	770.93	0.00	0.00	0.00
96	RD04	775.32	770.42	-4.90	770.42	0.00	0.00	0.00
97	RD05	775.82	770.92	-4.90	770.92	0.00	0.00	0.00
98	RD06	776.34	771.44	-4.90	771.44	0.00	0.00	0.00
99	RD07	775.80	770.91	-4.89	770.91	0.00	0.00	0.00
100	RD08	776.30	771.41	-4.89	771.41	0.00	0.00	0.00
101	RD09	776.82	771.93	-4.89	771.93	0.00	0.00	0.00
102	RD10	776.01	771.12	-4.89	771.12	0.00	0.00	0.00
103	RD11	775.49	770.60	-4.90	770.60	0.00	0.00	0.00
104	RD12	774.99	770.10	-4.89	770.10	0.00	0.00	0.00
105	RD13	775.98	771.09	-4.90	771.09	0.00	0.00	0.00
106	RD14	775.46	770.56	-4.90	770.56	0.00	0.00	0.00
107	RD15	774.96	770.07	-4.90	770.07	0.00	0.00	0.00
108	RD16	775.97	771.08	-4.90	771.08	0.00	0.00	0.00
109	RD17	775.45	770.55	-4.90	770.55	0.00	0.00	0.00
110	RD18	774.95	770.06	-4.90	770.06	0.00	0.00	0.00
111	RD19	776.97	772.08	-4.90	772.08	0.00	0.00	0.00
112	RD20	777.47	772.57	-4.90	772.57	0.00	0.00	0.00
113	RD21	777.99	773.10	-4.90	773.10	0.00	0.00	0.00
114	RD22	776.37	771.47	-4.90	771.47	0.00	0.00	0.00
115	RD23	776.87	771.97	-4.90	771.97	0.00	0.00	0.00
116	RD24	777.39	772.49	-4.90	772.49	0.00	0.00	0.00
117	RD25	776.75	771.85	-4.90	771.85	0.00	0.00	0.00
118	RD26	777.25	772.35	-4.90	772.35	0.00	0.00	0.00
119	RD27	777.77	772.87	-4.90	772.87	0.00	0.00	0.00
120	RD29	778.20	773.31	-4.89	773.31	0.00	0.00	0.00
121	RD30	777.68	772.79	-4.89	772.79	0.00	0.00	0.00
122	RD31	777.18	772.29	-4.89	772.29	0.00	0.00	0.00
123	RD32	777.73	772.83	-4.90	772.83	0.00	0.00	0.00
124	RD33	777.21	772.31	-4.90	772.31	0.00	0.00	0.00
125	RD34	776.71	771.81	-4.90	771.81	0.00	0.00	0.00
126	RD35	777.27	772.38	-4.89	772.38	0.00	0.00	0.00
127	RD36	776.75	771.86	-4.89	771.86	0.00	0.00	0.00
128	RD37	773.25	771.36	-1.89	771.36	0.00	0.00	0.00

Junction Results

SN	Element ID	Peak Inflow (cfs)	Peak Lateral Inflow (cfs)	Max HGL Elevation Attained (ft)	Max HGL Depth Attained (ft)	Max Surcharge Depth Attained (ft)	Min Freeboard Attained (ft)	Average HGL Elevation Attained (ft)	Average HGL Depth Attained (ft)	Time of Max HGL Occurrence (days hh:mm)	Time of Peak Flooding Occurrence (days hh:mm)	Total Flooded Volume (ac-in)	Total Time Flooded (min)
1	(100)	5.88	0.00	777.84	1.42	0.00	0.08	776.83	0.41	0 11:59	0 00:00	0.00	0.00
2	(101)	3.84	0.00	778.38	1.21	0.00	0.04	777.49	0.32	0 11:59	0 00:00	0.00	0.00
3	(102)	2.05	0.00	778.86	0.92	0.00	0.08	778.18	0.24	0 11:59	0 00:00	0.00	0.00
4	(106)	5.56	0.00	777.20	1.38	0.00	0.12	776.17	0.35	0 12:01	0 00:00	0.00	0.00
5	(107)	3.28	0.00	777.66	1.09	0.00	0.16	776.84	0.27	0 12:00	0 00:00	0.00	0.00
6	(108)	1.65	0.00	778.15	0.81	0.00	0.19	777.54	0.20	0 12:00	0 00:00	0.00	0.00
7	(112)	5.88	0.00	777.62	1.42	0.00	0.08	776.58	0.38	0 12:00	0 00:00	0.00	0.00
8	(113)	3.84	0.00	778.16	1.21	0.00	0.04	777.28	0.33	0 11:57	0 00:00	0.00	0.00
9	(114)	2.05	0.00	778.64	0.92	0.00	0.08	777.98	0.26	0 11:56	0 00:00	0.00	0.00
10	(119)	5.88	0.00	775.82	1.42	0.00	0.08	774.81	0.41	0 12:01	0 00:00	0.00	0.00
11	(120)	3.84	0.00	776.36	1.21	0.00	0.04	775.47	0.32	0 11:59	0 00:00	0.00	0.00
12	(121)	2.05	0.00	776.84	0.92	0.00	0.08	776.16	0.24	0 11:59	0 00:00	0.00	0.00
13	(125)	5.56	0.00	775.78	1.37	0.00	0.13	774.76	0.35	0 12:00	0 00:00	0.00	0.00
14	(126)	3.28	0.00	776.25	1.09	0.00	0.16	775.43	0.27	0 12:00	0 00:00	0.00	0.00
15	(127)	1.65	0.00	776.74	0.81	0.00	0.19	776.13	0.20	0 12:00	0 00:00	0.00	0.00
16	(131)	5.89	0.00	775.86	1.42	0.00	0.08	774.82	0.38	0 12:00	0 00:00	0.00	0.00
17	(132)	3.84	0.00	776.40	1.21	0.00	0.04	775.52	0.33	0 11:57	0 00:00	0.00	0.00
18	(133)	2.05	0.00	776.88	0.92	0.00	0.08	776.22	0.26	0 11:56	0 00:00	0.00	0.00
19	(137)	5.88	0.00	777.12	1.42	0.00	0.08	776.11	0.41	0 12:01	0 00:00	0.00	0.00
20	(138)	3.84	0.00	777.66	1.21	0.00	0.04	776.77	0.32	0 11:59	0 00:00	0.00	0.00
21	(139)	2.05	0.00	778.14	0.92	0.00	0.08	777.46	0.24	0 11:59	0 00:00	0.00	0.00
22	(143)	5.56	0.00	777.53	1.37	0.00	0.13	776.51	0.35	0 12:00	0 00:00	0.00	0.00
23	(144)	3.28	0.00	777.99	1.09	0.00	0.17	777.17	0.27	0 12:00	0 00:00	0.00	0.00
24	(145)	1.65	0.00	778.49	0.81	0.00	0.19	777.88	0.20	0 12:00	0 00:00	0.00	0.00
25	(149)	5.89	0.00	778.05	1.42	0.00	0.08	777.01	0.38	0 12:00	0 00:00	0.00	0.00
26	(150)	3.84	0.00	778.59	1.21	0.00	0.04	777.71	0.33	0 11:57	0 00:00	0.00	0.00
27	(151)	2.05	0.00	779.07	0.92	0.00	0.08	778.41	0.26	0 11:56	0 00:00	0.00	0.00
28	(81)	5.99	0.00	775.70	1.43	0.00	1.07	774.68	0.41	0 12:00	0 00:00	0.00	0.00
29	(82)	3.84	0.00	776.25	1.21	0.00	0.04	775.40	0.36	0 11:56	0 00:00	0.00	0.00
30	(83)	2.05	0.00	776.71	0.92	0.00	0.08	776.09	0.30	0 11:52	0 00:00	0.00	0.00
31	(87)	5.40	0.00	776.13	1.36	0.00	0.14	775.11	0.34	0 12:00	0 00:00	0.00	0.00
32	(88)	3.13	0.00	776.58	1.07	0.00	0.19	775.78	0.27	0 12:00	0 00:00	0.00	0.00
33	(89)	1.50	0.00	777.05	0.76	0.00	0.24	776.48	0.19	0 12:00	0 00:00	0.00	0.00
34	(94)	5.89	0.00	776.67	1.42	0.00	0.08	775.63	0.38	0 12:00	0 00:00	0.00	0.00
35	(95)	3.84	0.00	777.21	1.21	0.00	0.04	776.33	0.33	0 11:57	0 00:00	0.00	0.00
36	(96)	2.05	0.00	777.69	0.92	0.00	0.08	777.03	0.26	0 11:56	0 00:00	0.00	0.00
37	D02	13.68	0.00	769.50	1.56	0.00	2.29	768.64	0.70	0 12:38	0 00:00	0.00	0.00
38	D04	34.13	0.59	771.54	2.91	0.00	5.17	770.46	1.83	0 12:00	0 00:00	0.00	0.00
39	D05	32.04	1.03	772.01	3.17	0.00	3.39	770.59	1.75	0 12:00	0 00:00	0.00	0.00
40	D06	31.01	0.99	772.48	3.42	0.00	3.20	770.72	1.66	0 12:00	0 00:00	0.00	0.00
41	D07	30.09	0.00	772.97	3.60	0.00	1.57	770.89	1.52	0 12:00	0 00:00	0.00	0.00
42	D08	30.94	2.36	773.64	3.70	0.00	0.86	771.16	1.22	0 12:00	0 00:00	0.00	0.00
43	D09	25.84	1.92	773.88	3.67	0.00	1.12	771.30	1.09	0 11:59	0 00:00	0.00	0.00
44	D10	28.44	1.92	773.99	3.00	0.00	0.00	771.90	0.91	0 11:54	0 12:00	2.56	16.00
45	D11	26.55	1.92	774.36	3.10	0.00	1.14	772.18	0.92	0 11:58	0 00:00	0.00	0.00
46	D12	23.38	1.25	774.54	3.00	0.00	0.00	772.41	0.87	0 11:54	0 12:00	0.59	13.00
47	D13	22.20	1.03	775.11	3.32	0.00	0.94	772.68	0.89	0 12:01	0 00:00	0.00	0.00
48	D14	21.23	1.25	775.75	3.58	0.00	2.89	773.07	0.90	0 12:01	0 00:00	0.00	0.00
49	D15	17.88	0.70	776.06	3.72	0.00	2.24	773.24	0.90	0 12:01	0 00:00	0.00	0.00
50	D16	16.59	0.33	776.32	3.80	0.00	0.78	773.42	0.90	0 12:01	0 00:00	0.00	0.00
51	D17	16.90	0.92	776.62	3.83	0.00	0.38	773.68	0.89	0 12:02	0 00:00	0.00	0.00
52	D18	13.22	3.09	776.77	3.00	0.50	0.00	774.50	0.73	0 12:02	0 11:57	0.24	15.00
53	D19	9.34	1.92	776.78	2.73	0.73	0.00	774.70	0.65	0 12:03	0 11:55	0.33	20.00
54	D20	11.03	1.92	776.79	2.47	0.47	0.00	774.93	0.61	0 12:03	0 11:56	0.23	19.00
55	D21	13.25	3.09	776.60	2.00	0.00	0.00	775.07	0.47	0 11:56	0 12:03	2.25	15.00
56	D22	3.42	0.81	776.76	1.05	0.00	0.45	776.01	0.30	0 11:57	0 00:00	0.00	0.00
57	D23	2.62	0.33	777.12	0.86	0.00	0.64	776.52	0.26	0 12:00	0 00:00	0.00	0.00
58	D24	3.02	1.62	778.89	1.00	0.00	0.00	778.17	0.28	0 11:57	0 12:00	0.06	8.00
59	D25	1.44	1.44	780.07	0.74	0.00	0.26	779.52	0.19	0 12:00	0 00:00	0.00	0.00
60	D27	37.31	1.03	771.27	2.62	0.00	2.14	770.46	1.81	0 12:02	0 00:00	0.00	0.00
61	D28	36.42	0.74	771.84	3.12	0.00	2.08	770.60	1.88	0 12:03	0 00:00	0.00	0.00
62	D29	35.35	4.49	772.69	3.49	0.00	2.31	770.83	1.63	0 12:03	0 00:00	0.00	0.00
63	D30	28.14	2.76	773.04	3.57	0.42	0.00	770.97	1.50	0 12:03	0 11:57	0.48	22.00
64	D31	25.86	2.87	773.33	3.58	0.00	1.67	771.11	1.36	0 12:03	0 00:00	0.00	0.00
65	D32	25.51	2.98	773.46	3.44	0.44	0.00	771.23	1.21	0 12:02	0 11:51	0.51	26.00
66	D33	24.04	3.06	773.56	3.26	0.00	1.44	771.37	1.07	0 12:01	0 00:00	0.00	0.00
67	D34	23.95	3.24	773.57	3.00	0.00	0.00	771.56	0.99	0 11:51	0 12:02	3.69	22.00
68	D35	20.79	1.95	773.96	2.76	0.26	0.00	772.12	0.92	0 12:00	0 11:50	0.02	25.00
69	D36	18.93	0.63	774.34	2.93	0.00	1.94	772.35	0.94	0 12:00	0 00:00	0.00	0.00
70	D37	16.40	0.81	774.48	2.99	0.00	3.17	772.44	0.95	0 12:00	0 00:00	0.00	0.00
71	D38	16.15	4.42	774.65	2.80	0.00	1.35	772.74	0.89	0 11:57	0 00:00	0.00	0.00
72	D39	18.77	2.98	774.64	2.50	0.00	0.00	772.93	0.79	0 11:50	0 12:00	4.05	24.00
73	D40	15.87	2.98	775.50	2.58	0.00	1.00	773.67	0.75	0 12:00	0 00:00	0.00	0.00
74	D41	11.54	2.98	775.70	2.51	0.51	0.00	773.87	0.68	0 12:02	0 11:53	0.44	24.00
75	D42	9.84	2.95	775.79	2.32	0.00	1.21	774.11	0.64	0 11:58	0 00:00	0.00	0.00
76	D43	11.20	2.47	775.74	2.00	0.00	0.00	774.24	0.50	0 11:53	0 12:00	1.85	16.00
77	D44	5.71	4.02	775.82	1.94	0.00	0.06	774.33	0.45	0 12:00	0 00:00	0.00	0.00
78	D45	1.77	1.77	776.36	0.84	0.00	0.16	775.74	0.22	0 12:00	0 00:00	0.00	0.00
79	D46	5.18	1.22	776.24	1.31	0.00	0.19	775.26	0.33	0 12:00	0 00:00	0.00	0.00
80	D47	4.02	1.10	776.82	1.12	0.00	0.38	775.99	0.29	0 12:00	0 00:00	0.00	0.00
81	D48	2.91	0.99	777.10	1.02	0.00	0.23	776.34	0.26	0 12:00	0 00:00	0.00	0.00

Junction Results

SN	Element ID	Peak Inflow (cfs)	Peak Lateral Inflow (cfs)	Max HGL Elevation Attained (ft)	Max HGL Depth Attained (ft)	Max Surcharge Depth Attained (ft)	Min Freeboard Attained (ft)	Average HGL Elevation Attained (ft)	Average HGL Depth Attained (ft)	Time of Max HGL Occurrence (days hh:mm)	Time of Peak Flooding Occurrence (days hh:mm)	Total Flooded Volume (ac-in)	Total Time Flooded (min)
82	D49	1.94	0.85	777.53	0.90	0.00	0.10	776.85	0.22	0 12:00	0 00:00	0.00	0.00
83	D50	1.10	1.10	777.57	0.75	0.00	0.25	776.99	0.17	0 12:00	0 00:00	0.00	0.00
84	D51	1.25	1.25	778.95	0.66	0.00	0.34	778.47	0.18	0 12:00	0 00:00	0.00	0.00
85	D52	0.92	0.92	779.01	0.54	0.00	0.46	778.62	0.15	0 12:01	0 00:00	0.00	0.00
86	D53	1.10	1.10	777.33	0.44	0.00	1.06	777.04	0.15	0 12:00	0 00:00	0.00	0.00
87	D54	1.55	1.55	778.11	0.76	0.00	0.24	777.54	0.19	0 12:00	0 00:00	0.00	0.00
88	D55	1.40	1.40	779.04	0.72	0.00	0.28	778.51	0.19	0 12:00	0 00:00	0.00	0.00
89	D56	0.52	0.52	776.17	0.33	0.00	0.67	775.93	0.09	0 12:00	0 00:00	0.00	0.00
90	D58	3.50	3.50	771.00	1.00	0.00	0.00	770.65	0.65	0 11:55	0 12:33	1.36	84.00
91	D60	26.29	3.46	773.70	4.95	0.00	0.00	771.03	2.28	0 01:59	0 05:55	0.34	2.00
92	D61	20.43	0.70	773.72	4.82	0.02	0.00	771.04	2.14	0 02:00	0 05:03	0.04	1.00
93	RD01	3.90	3.90	776.84	1.00	0.00	0.00	776.15	0.31	0 11:52	0 12:00	0.25	15.00
94	RD02	2.43	2.43	776.34	1.00	0.00	0.00	775.60	0.26	0 11:56	0 12:00	0.05	9.00
95	RD03	2.17	2.17	776.78	0.96	0.00	0.04	776.06	0.24	0 12:00	0 00:00	0.00	0.00
96	RD04	2.43	2.43	776.32	1.00	0.00	0.00	775.57	0.25	0 11:59	0 12:00	0.00	2.00
97	RD05	1.66	1.66	776.68	0.86	0.00	0.14	776.03	0.21	0 12:00	0 00:00	0.00	0.00
98	RD06	1.51	1.51	777.15	0.81	0.00	0.19	776.54	0.20	0 12:00	0 00:00	0.00	0.00
99	RD07	2.14	2.14	776.80	1.00	0.00	0.00	776.04	0.24	0 11:59	0 12:00	0.00	1.00
100	RD08	2.32	2.32	777.30	1.00	0.00	0.00	776.55	0.25	0 11:56	0 12:00	0.04	8.00
101	RD09	2.69	2.69	777.82	1.00	0.00	0.00	777.09	0.27	0 11:56	0 12:00	0.05	8.00
102	RD10	2.69	2.69	777.01	1.00	0.00	0.00	776.28	0.27	0 11:56	0 12:00	0.05	8.00
103	RD11	2.32	2.32	776.49	1.00	0.00	0.00	775.74	0.25	0 11:56	0 12:00	0.04	8.00
104	RD12	2.14	2.14	775.99	1.00	0.00	0.00	775.23	0.24	0 11:59	0 12:00	0.00	1.00
105	RD13	1.66	1.66	776.84	0.86	0.00	0.14	776.19	0.21	0 12:00	0 00:00	0.00	0.00
106	RD14	1.66	1.66	776.35	0.89	0.00	0.11	775.67	0.21	0 12:00	0 00:00	0.00	0.00
107	RD15	2.43	2.43	775.96	1.00	0.00	0.00	775.21	0.25	0 11:59	0 12:00	0.00	2.00
108	RD16	2.17	2.17	776.97	1.00	0.00	0.00	776.21	0.24	0 11:59	0 12:00	0.00	2.00
109	RD17	2.43	2.43	776.45	1.00	0.00	0.00	775.70	0.25	0 11:57	0 12:00	0.04	7.00
110	RD18	3.90	3.90	775.95	1.00	0.00	0.00	775.25	0.30	0 11:53	0 12:00	0.22	13.00
111	RD19	3.90	3.90	777.97	1.00	0.00	0.00	777.27	0.30	0 11:53	0 12:00	0.22	13.00
112	RD20	2.43	2.43	778.47	1.00	0.00	0.00	777.72	0.25	0 11:57	0 12:00	0.04	7.00
113	RD21	2.17	2.17	778.99	1.00	0.00	0.00	778.23	0.24	0 11:59	0 12:00	0.00	2.00
114	RD22	2.43	2.43	777.37	1.00	0.00	0.00	776.62	0.25	0 11:59	0 12:00	0.00	2.00
115	RD23	1.66	1.66	777.76	0.89	0.00	0.11	777.08	0.21	0 12:00	0 00:00	0.00	0.00
116	RD24	1.66	1.66	778.25	0.86	0.00	0.14	777.60	0.21	0 12:00	0 00:00	0.00	0.00
117	RD25	2.14	2.14	777.75	1.00	0.00	0.00	776.99	0.24	0 11:59	0 12:00	0.00	1.00
118	RD26	2.32	2.32	778.25	1.00	0.00	0.00	777.50	0.25	0 11:56	0 12:00	0.04	8.00
119	RD27	2.69	2.69	778.77	1.00	0.00	0.00	778.04	0.27	0 11:56	0 12:00	0.05	8.00
120	RD29	2.69	2.69	779.20	1.00	0.00	0.00	778.47	0.27	0 11:56	0 12:00	0.05	8.00
121	RD30	2.32	2.32	778.68	1.00	0.00	0.00	777.93	0.25	0 11:56	0 12:00	0.04	8.00
122	RD31	2.14	2.14	778.18	1.00	0.00	0.00	777.42	0.24	0 11:59	0 12:00	0.00	1.00
123	RD32	1.66	1.66	778.59	0.86	0.00	0.14	777.94	0.21	0 12:00	0 00:00	0.00	0.00
124	RD33	1.66	1.66	778.09	0.88	0.00	0.12	777.42	0.21	0 12:00	0 00:00	0.00	0.00
125	RD34	2.43	2.43	777.71	1.00	0.00	0.00	776.96	0.25	0 11:59	0 12:00	0.00	2.00
126	RD35	2.17	2.17	778.27	1.00	0.00	0.00	777.51	0.24	0 11:59	0 12:00	0.00	2.00
127	RD36	2.43	2.43	777.75	1.00	0.00	0.00	777.00	0.25	0 11:57	0 12:00	0.04	7.00
128	RD37	3.90	3.90	777.25	4.00	0.00	0.00	776.52	3.27	0 11:53	0 12:00	0.22	13.00

Pipe Input

SN	Element ID	Length (ft)	Inlet Invert Elevation (ft)	Inlet Invert Offset (ft)	Outlet Invert Elevation (ft)	Outlet Invert Offset (ft)	Total Drop (ft)	Average Slope (%)	Pipe Shape	Pipe Diameter or Height (in)	Pipe Width (in)	Manning's Roughness	Entrance Losses	Exit/Bend Losses	Additional Losses	Initial Flow (cfs)	Flap Gate	No. of Barrels
1	Link-01	49.90	771.00	2.25	767.00	-1.00	4.00	8.0200	CIRCULAR	12.000	12.000	0.0150	0.5000	0.5000	0.0000	0.00	No	1
2	Link-02	30.20	768.90	0.00	768.75	0.00	0.15	0.5000	CIRCULAR	12.000	12.000	0.0150	0.5000	0.5000	0.0000	0.00	No	1
3	Link-03	54.17	767.94	0.00	767.40	3.00	0.54	1.0000	CIRCULAR	24.000	24.000	0.0150	0.5000	0.5000	0.0000	0.00	No	1
4	P(100)	49.86	776.95	0.00	776.45	0.25	0.50	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
5	P(101)	52.12	777.72	0.00	777.20	0.25	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
6	P(102)	5.00	777.77	0.00	777.72	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
7	P(103)	5.00	777.25	0.00	777.20	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
8	P(104)	5.00	776.75	0.00	776.70	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
9	P(105)	90.03	774.40	0.00	773.50	4.30	0.90	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
10	P(106)	49.86	775.15	0.00	774.65	0.25	0.50	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
11	P(107)	52.12	775.92	0.00	775.40	0.25	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
12	P(108)	5.00	775.97	0.00	775.92	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
13	P(109)	5.00	775.45	0.00	775.40	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
14	P(110)	5.00	774.95	0.00	774.90	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
15	P(111)	91.03	774.41	0.00	773.50	3.75	0.91	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
16	P(112)	49.86	775.16	0.00	774.66	0.25	0.50	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
17	P(113)	52.12	775.93	0.00	775.41	0.25	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
18	P(114)	5.00	775.98	0.00	775.93	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
19	P(115)	5.00	775.46	0.00	775.41	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
20	P(116)	5.00	774.96	0.00	774.91	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
21	P(117)	94.06	774.44	0.00	773.50	3.20	0.94	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
22	P(118)	49.86	775.19	0.00	774.69	0.25	0.50	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
23	P(119)	52.12	775.96	0.00	775.44	0.25	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
24	P(120)	5.00	776.01	0.00	775.96	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
25	P(121)	5.00	775.49	0.00	775.44	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
26	P(122)	5.00	774.99	0.00	774.94	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
27	P(123)	120.37	775.70	0.00	774.50	2.65	1.20	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
28	P(124)	49.86	776.45	0.00	775.95	0.25	0.50	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
29	P(125)	52.12	777.22	0.00	776.70	0.25	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
30	P(126)	5.00	777.27	0.00	777.22	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
31	P(127)	5.00	776.75	0.00	776.70	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
32	P(128)	5.00	776.25	3.00	776.20	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
33	P(129)	115.56	776.16	0.00	775.00	2.08	1.16	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
34	P(130)	49.86	776.90	0.00	776.41	0.25	0.49	0.9800	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
35	P(131)	52.12	777.68	0.00	777.16	0.26	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
36	P(132)	5.00	777.73	0.00	777.68	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
37	P(133)	5.03	777.21	0.00	777.16	0.26	0.05	0.9900	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
38	P(134)	5.00	776.71	0.00	776.66	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
39	P(135)	113.42	776.63	0.00	775.50	2.03	1.13	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
40	P(136)	49.86	777.38	0.00	776.88	0.25	0.50	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
41	P(137)	52.12	778.15	0.00	777.63	0.25	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
42	P(138)	5.00	778.20	0.00	778.15	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
43	P(139)	5.00	777.68	0.00	777.63	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
44	P(140)	5.00	777.18	0.00	777.13	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
45	P(15)	58.56	770.00	0.00	768.50	0.50	1.50	2.5600	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
46	P(16)	123.16	769.37	0.00	769.06	0.00	0.31	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
47	P(16) (1)	226.84	769.94	0.00	769.37	0.00	0.57	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
48	P(17)	110.00	770.21	0.00	769.94	0.00	0.27	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
49	P(18)	110.00	770.99	0.00	770.21	0.00	0.78	0.7100	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
50	P(19)	110.00	771.26	0.00	770.99	0.00	0.27	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
51	P(20)	110.00	771.54	0.00	771.26	0.00	0.28	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
52	P(23)	192.59	773.77	0.00	773.29	0.50	0.48	0.2500	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
53	P(24)	110.00	774.05	0.00	773.77	0.00	0.28	0.2500	CIRCULAR	24.000	24.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
54	P(25)	110.00	774.32	0.00	774.05	0.00	0.27	0.2500	CIRCULAR	24.000	24.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
55	P(26)	110.00	774.60	0.00	774.32	0.00	0.28	0.2500	CIRCULAR	24.000	24.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
56	P(27)	121.80	775.71	0.00	775.10	0.50	0.61	0.5000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
57	P(28)	110.16	776.26	0.00	775.71	0.00	0.55	0.5000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
58	P(29)	113.60	777.89	0.00	776.76	0.50	1.13	0.9900	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
59	P(30)	144.00	779.33	0.00	777.89	0.00	1.44	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
60	P(31)	58.17	768.65	0.00	768.50	0.50	0.15	0.2600	CIRCULAR	48.000	48.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
61	P(32)	30.00	768.72	0.00	768.65	0.00	0.07	0.2300	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
62	P(33)	191.79	769.20	0.00	768.72	0.00	0.48	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
63	P(34)	110.00	769.47	0.00	769.20	0.00	0.27	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
64	P(35)	110.00	769.75	0.00	769.47	0.00	0.28	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
65	P(36)	110.00	770.02	0.00	769.75	0.00	0.27	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
66	P(37)	110.00	770.30	0.00	770.02	0.00	0.28	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
67	P(38)	110.00	770.57	0.00	770.30	0.00	0.27	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
68	P(39)	50.09	771.20	0.00	771.07	0.50	0.13	0.2600	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
69	P(39) (1)	84.79	771.41	0.00	771.20	0.00	0.21	0.2500	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
70	P(40)	30.63	771.49	0.00	771.41	0.00	0.08	0.2600	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
71	P(41)	145.53	771.85	0.00	771.49	0.00	0.36	0.2500	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
72	P(42)	115.67	772.14	0.00	771.85	0.00	0.29	0.2500	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
73	P(43)	110.00	772.92	0.00	772.64	0.50	0.28	0.2500	CIRCULAR	24.000	24.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
74	P(44)	110.00	773.19	0.00	772.92	0.00	0.27	0.2500	CIRCULAR	24.000	24.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
75	P(45)	110.00	773.47	0.00	773.19	0.00	0.28	0.2500	CIRCULAR	24.000	24.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
76	P(46)	110.00	773.74	0.00	773.47	0.00	0.27	0.2500	CIRCULAR	24.000	24.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
77	P(47)	55.00	773.88	0.00	773.74	0.00	0.14	0.2500	CIRCULAR	24.000	24.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
78	P(48)	255.74	775.52	0.00	774.88	1.00	0.64	0.2500	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
79	P(49)	100.80	771.79	0.00	771.54	0.00	0.25	0.2500	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
80	P(50)	152.05	772.17	0.00	771.79	0.00	0.38	0.2500	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
81	P(51)	108.00	776.89	0.00	775.81	3.64	1.08	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
82	P(53)	70.60	772.52	0.00	772.34	0.00	0.18	0.2500	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1

Pipe Input

SN	Element ID	Length (ft)	Inlet Invert Elevation (ft)	Inlet Invert Offset (ft)	Outlet Invert Elevation (ft)	Outlet Invert Offset (ft)	Total Drop (ft)	Average Slope (%)	Pipe Shape	Pipe Diameter or Height (in)	Pipe Width (in)	Manning's Roughness	Entrance Losses	Exit/Bend Losses	Additional Losses	Initial Flow (cfs)	Flap Gate	No. of Barrels
83	P(54)	117.00	778.47	0.00	777.30	4.96	1.17	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
84	P(55)	163.40	778.29	0.00	776.65	5.16	1.64	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
85	P(56)	161.45	774.93	0.00	773.31	1.90	1.62	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
86	P(57)	76.76	775.70	0.00	774.93	0.00	0.77	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
87	P(58)	13.14	776.08	0.00	775.95	0.25	0.13	0.9900	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
88	P(59)	29.92	776.63	0.00	776.33	0.25	0.30	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
89	P(60)	13.28	776.82	0.00	776.63	0.00	0.19	1.4300	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
90	P(61)	52.97	768.63	0.00	768.50	0.50	0.13	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
91	P(62)	82.14	768.83	-0.01	768.63	0.00	0.20	0.2400	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
92	P(63)	90.00	769.05	-0.01	768.83	-0.01	0.22	0.2400	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
93	P(64)	108.60	772.79	0.00	772.52	0.00	0.27	0.2500	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
94	P(65)	67.82	778.32	0.00	777.64	5.47	0.68	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
95	P(66)	82.14	777.35	0.00	775.71	7.08	1.64	2.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
96	P(67)	46.08	773.84	-2.00	772.92	4.20	0.92	2.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
97	P(68)	69.52	772.34	0.00	772.17	0.00	0.17	0.2400	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
98	P(69)	127.13	774.27	0.00	773.00	3.06	1.27	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
99	P(70)	52.12	775.04	0.00	774.52	0.25	0.52	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
100	P(71)	49.86	775.79	0.00	775.29	0.25	0.50	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
101	P(72)	5.00	775.84	0.00	775.79	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
102	P(73)	5.00	775.34	0.00	775.29	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
103	P(74)	5.00	775.82	0.00	775.77	1.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
104	P(75)	126.56	774.77	0.00	773.50	3.29	1.27	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
105	P(76)	49.86	775.51	0.00	775.02	0.25	0.49	0.9800	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
106	P(77)	52.12	776.29	0.00	775.77	0.26	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
107	P(78)	5.00	776.34	0.00	776.29	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
108	P(79)	5.00	775.82	0.00	775.77	0.26	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
109	P(80)	5.00	775.32	0.00	775.27	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
110	P(81)	125.15	775.25	0.00	774.00	2.74	1.25	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
111	P(82)	49.86	776.00	0.00	775.50	0.25	0.50	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
112	P(83)	52.12	776.77	0.00	776.25	0.25	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
113	P(84)	5.00	776.82	0.00	776.77	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
114	P(85)	5.00	776.30	0.00	776.25	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
115	P(86)	5.00	775.80	0.00	775.75	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
116	P(87)	92.04	776.42	0.00	775.50	2.71	0.92	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
117	P(88)	49.86	777.17	0.00	776.67	0.25	0.50	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
118	P(89)	52.12	777.94	0.00	777.42	0.25	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
119	P(90)	5.00	777.99	0.00	777.94	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
120	P(91)	5.00	777.47	0.00	777.42	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
121	P(92)	5.00	776.97	0.00	776.92	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
122	P(93)	154.50	775.82	0.00	774.27	0.50	1.55	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
123	P(94)	49.86	776.57	0.00	776.07	0.25	0.50	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
124	P(95)	52.12	777.34	0.00	776.82	0.25	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
125	P(96)	5.00	777.39	0.00	777.34	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
126	P(97)	5.00	776.87	0.00	776.82	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
127	P(98)	5.00	776.37	0.00	776.32	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
128	P(99)	137.40	776.20	0.00	774.82	0.50	1.38	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1

Pipe Results

SN	Element ID	Peak Flow (cfs)	Time of Peak Flow Occurrence (days hh:mm)	Design Flow Capacity (cfs)	Peak Flow/ Design Flow Ratio	Peak Flow Velocity (ft/sec)	Travel Time (min)	Peak Flow Depth (ft)	Peak Flow Depth/ Total Depth Ratio	Total Time Surcharged (min)	Froude Number	Reported Condition
1	Link-01	32.71	0 07:18	7.57	4.32	50.00	0.02	0.87	0.87	0.00		> CAPACITY
2	Link-02	26.28	0 01:59	2.18	12.08	50.00	0.01	1.00	1.00	946.00		SURCHARGED
3	Link-03	13.68	0 12:39	19.58	0.70	5.84	0.15	1.40	0.70	0.00		Calculated
4	P(100)	3.82	0 11:57	7.01	0.55	3.27	0.25	1.19	0.95	0.00		Calculated
5	P(101)	2.04	0 11:56	3.86	0.53	2.92	0.30	0.94	0.94	0.00		Calculated
6	P(102)	2.05	0 11:56	3.86	0.53	2.65	0.03	0.96	0.96	0.00		Calculated
7	P(103)	1.81	0 11:56	3.86	0.47	2.77	0.03	0.98	0.98	0.00		Calculated
8	P(104)	2.06	0 11:59	3.86	0.53	2.94	0.03	0.96	0.96	0.00		Calculated
9	P(105)	5.87	0 12:01	11.38	0.52	4.26	0.35	1.09	0.73	0.00		Calculated
10	P(106)	3.82	0 11:59	7.01	0.55	3.18	0.26	1.19	0.95	0.00		Calculated
11	P(107)	2.04	0 11:59	3.86	0.53	2.74	0.32	0.94	0.94	0.00		Calculated
12	P(108)	2.05	0 11:59	3.86	0.53	2.65	0.03	0.96	0.96	0.00		Calculated
13	P(109)	1.98	0 11:57	3.86	0.51	2.86	0.03	0.98	0.98	0.00		Calculated
14	P(110)	2.29	0 11:53	3.86	0.59	3.15	0.03	0.96	0.96	0.00		Calculated
15	P(111)	5.54	0 12:00	11.38	0.49	4.17	0.36	1.05	0.70	0.00		Calculated
16	P(112)	3.27	0 12:00	7.01	0.47	3.12	0.27	1.10	0.88	0.00		Calculated
17	P(113)	1.64	0 12:00	3.86	0.43	2.79	0.31	0.82	0.83	0.00		Calculated
18	P(114)	1.65	0 12:00	3.86	0.43	2.35	0.04	0.83	0.84	0.00		Calculated
19	P(115)	1.65	0 12:00	3.86	0.43	2.82	0.03	0.86	0.86	0.00		Calculated
20	P(116)	2.29	0 11:59	3.86	0.59	3.05	0.03	0.93	0.94	0.00		Calculated
21	P(117)	5.87	0 12:00	11.38	0.52	4.26	0.37	1.09	0.73	0.00		Calculated
22	P(118)	3.82	0 11:57	7.01	0.55	3.27	0.25	1.19	0.95	0.00		Calculated
23	P(119)	2.04	0 11:56	3.86	0.53	2.92	0.30	0.94	0.94	0.00		Calculated
24	P(120)	2.05	0 11:56	3.86	0.53	2.65	0.03	0.96	0.96	0.00		Calculated
25	P(121)	1.81	0 11:56	3.86	0.47	2.77	0.03	0.98	0.98	0.00		Calculated
26	P(122)	2.07	0 11:59	3.86	0.54	2.94	0.03	0.96	0.96	0.00		Calculated
27	P(123)	5.87	0 12:01	11.36	0.52	4.26	0.47	1.09	0.73	0.00		Calculated
28	P(124)	3.82	0 11:59	7.01	0.55	3.18	0.26	1.19	0.95	0.00		Calculated
29	P(125)	2.04	0 11:59	3.86	0.53	2.74	0.32	0.94	0.94	0.00		Calculated
30	P(126)	2.05	0 11:59	3.86	0.53	2.65	0.03	0.96	0.96	0.00		Calculated
31	P(127)	1.98	0 11:57	3.86	0.51	2.86	0.03	0.98	0.98	0.00		Calculated
32	P(128)	2.29	0 11:53	3.86	0.59	3.15	0.03	0.96	0.96	0.00		Calculated
33	P(129)	5.53	0 12:00	11.40	0.49	4.17	0.46	1.04	0.70	0.00		Calculated
34	P(130)	3.27	0 12:00	6.94	0.47	3.12	0.27	1.10	0.88	0.00		Calculated
35	P(131)	1.64	0 12:00	3.86	0.43	2.79	0.31	0.82	0.82	0.00		Calculated
36	P(132)	1.65	0 12:00	3.86	0.43	2.35	0.04	0.83	0.84	0.00		Calculated
37	P(133)	1.65	0 12:00	3.85	0.43	2.82	0.03	0.85	0.85	0.00		Calculated
38	P(134)	2.29	0 11:59	3.86	0.59	3.06	0.03	0.93	0.93	0.00		Calculated
39	P(135)	5.87	0 12:00	11.36	0.52	4.26	0.44	1.09	0.73	0.00		Calculated
40	P(136)	3.82	0 11:57	7.01	0.55	3.28	0.25	1.19	0.95	0.00		Calculated
41	P(137)	2.04	0 11:56	3.86	0.53	2.92	0.30	0.94	0.94	0.00		Calculated
42	P(138)	2.05	0 11:56	3.86	0.53	2.65	0.03	0.96	0.96	0.00		Calculated
43	P(139)	1.81	0 11:56	3.86	0.47	2.77	0.03	0.98	0.98	0.00		Calculated
44	P(140)	2.07	0 11:59	3.86	0.54	2.94	0.03	0.96	0.96	0.00		Calculated
45	P(15)	3.48	0 12:00	6.18	0.56	4.44	0.22	1.00	1.00	83.00		SURCHARGED
46	P(16)	30.07	0 11:59	36.25	0.83	4.25	0.48	3.00	1.00	19.00		SURCHARGED
47	P(16) (1)	30.09	0 11:54	36.22	0.83	4.26	0.89	3.00	1.00	20.00		SURCHARGED
48	P(17)	25.74	0 12:10	35.80	0.72	3.64	0.50	3.00	1.00	20.00		SURCHARGED
49	P(18)	22.97	0 12:10	60.85	0.38	3.41	0.54	3.00	1.00	16.00		SURCHARGED
50	P(19)	26.54	0 12:00	35.80	0.74	3.75	0.49	3.00	1.00	15.00		SURCHARGED
51	P(20)	20.42	0 12:08	36.46	0.56	3.20	0.57	3.00	1.00	13.00		SURCHARGED
52	P(23)	13.16	0 12:13	22.18	0.59	3.81	0.84	2.50	1.00	15.00		SURCHARGED
53	P(24)	10.72	0 12:14	12.36	0.87	3.43	0.53	2.00	1.00	20.00		SURCHARGED
54	P(25)	8.11	0 11:54	12.14	0.67	2.77	0.66	2.00	1.00	19.00		SURCHARGED
55	P(26)	7.38	0 12:03	12.36	0.60	2.35	0.78	2.00	1.00	15.00		SURCHARGED
56	P(27)	3.44	0 12:00	8.05	0.43	2.91	0.70	1.27	0.85	0.00		Calculated
57	P(28)	2.61	0 12:00	8.04	0.33	2.46	0.75	0.95	0.63	0.00		Calculated
58	P(29)	2.29	0 11:57	3.85	0.59	3.49	0.54	0.78	0.78	0.00		Calculated
59	P(30)	1.41	0 12:00	3.86	0.37	1.95	1.23	0.86	0.87	0.00		Calculated
60	P(31)	37.31	0 12:02	79.02	0.47	5.21	0.19	2.53	0.63	0.00		Calculated
61	P(32)	36.42	0 12:03	34.90	1.04	5.29	0.09	2.80	0.94	0.00		> CAPACITY
62	P(33)	35.36	0 12:03	36.15	0.98	5.00	0.64	3.00	1.00	12.00		SURCHARGED
63	P(34)	28.70	0 12:10	35.80	0.80	4.06	0.45	3.00	1.00	23.00		SURCHARGED
64	P(35)	25.92	0 12:16	36.46	0.71	3.68	0.50	3.00	1.00	25.00		SURCHARGED
65	P(36)	24.60	0 12:16	35.80	0.69	3.48	0.53	3.00	1.00	26.00		SURCHARGED
66	P(37)	24.03	0 11:51	36.46	0.66	3.40	0.54	3.00	1.00	25.00		SURCHARGED
67	P(38)	19.23	0 11:51	35.80	0.54	2.85	0.64	3.00	1.00	22.00		SURCHARGED
68	P(39)	20.79	0 12:00	22.64	0.92	4.23	0.20	2.50	1.00	22.00		SURCHARGED
69	P(39) (1)	18.87	0 12:00	22.11	0.85	3.84	0.37	2.50	1.00	25.00		SURCHARGED
70	P(40)	15.90	0 11:50	22.71	0.70	3.24	0.16	2.50	1.00	25.00		SURCHARGED
71	P(41)	15.52	0 11:50	22.10	0.70	3.16	0.77	2.50	1.00	25.00		SURCHARGED
72	P(42)	11.37	0 12:14	22.25	0.51	2.38	0.81	2.50	1.00	24.00		SURCHARGED
73	P(43)	15.86	0 12:01	12.36	1.28	5.05	0.36	2.00	1.00	24.00		SURCHARGED
74	P(44)	9.71	0 12:10	12.14	0.80	3.09	0.59	2.00	1.00	24.00		SURCHARGED
75	P(45)	9.77	0 11:53	12.36	0.79	3.11	0.59	2.00	1.00	21.00		SURCHARGED
76	P(46)	4.20	0 11:53	12.14	0.35	1.62	1.13	2.00	1.00	16.00		SURCHARGED
77	P(47)	5.75	0 12:00	12.36	0.46	1.84	0.50	1.97	0.99	0.00		Calculated
78	P(48)	1.75	0 12:00	1.93	0.90	2.37	1.80	0.89	0.89	0.00		Calculated
79	P(49)	22.20	0 12:01	22.13	1.00	4.52	0.37	2.50	1.00	19.00		SURCHARGED
80	P(50)	21.24	0 12:01	22.21	0.96	4.33	0.59	2.50	1.00	20.00		SURCHARGED
81	P(51)	1.08	0 12:00	11.38	0.09	3.09	0.58	0.37	0.25	0.00		Calculated

Pipe Results

SN	Element ID	Peak Flow (cfs)	Time of Peak Flow Occurrence (days hh:mm)	Design Flow Capacity (cfs)	Peak Flow/ Design Flow Ratio	Peak Flow Velocity (ft/sec)	Travel Time (min)	Peak Flow Depth (ft)	Peak Flow Depth/ Total Depth Ratio	Total Time Surcharged (min)	Froude Number	Reported Condition
82	P(53)	16.59	0 12:06	22.44	0.74	3.38	0.35	2.50	1.00	21.00		SURCHARGED
83	P(54)	0.88	0 11:59	3.86	0.23	2.94	0.66	0.41	0.43	0.00		Calculated
84	P(55)	1.20	0 12:00	3.87	0.31	2.94	0.93	0.51	0.52	0.00		Calculated
85	P(56)	5.15	0 12:00	11.40	0.45	3.50	0.77	1.16	0.78	0.00		Calculated
86	P(57)	3.99	0 12:00	11.40	0.35	2.61	0.49	1.20	0.81	0.00		Calculated
87	P(58)	2.92	0 12:00	6.96	0.42	3.27	0.07	0.94	0.76	0.00		Calculated
88	P(59)	1.93	0 12:00	3.86	0.50	2.94	0.17	0.83	0.84	0.00		Calculated
89	P(60)	1.09	0 12:00	4.62	0.24	1.65	0.13	0.82	0.83	0.00		Calculated
90	P(61)	34.11	0 12:00	35.79	0.95	5.62	0.16	2.54	0.85	0.00		Calculated
91	P(62)	32.04	0 12:00	36.53	0.88	4.55	0.30	2.95	0.98	0.00		Calculated
92	P(63)	31.01	0 12:00	35.72	0.87	4.39	0.34	3.00	1.00	15.00		SURCHARGED
93	P(64)	16.38	0 12:06	22.16	0.74	3.34	0.54	2.50	1.00	22.00		SURCHARGED
94	P(65)	1.37	0 12:00	3.86	0.36	2.99	0.38	0.56	0.57	0.00		Calculated
95	P(66)	1.52	0 12:00	5.45	0.28	3.33	0.41	0.56	0.56	0.00		Calculated
96	P(67)	0.51	0 12:00	9.72	0.05	3.47	0.22	0.24	0.24	0.00		Calculated
97	P(68)	17.83	0 12:03	21.97	0.81	3.63	0.32	2.50	1.00	20.00		SURCHARGED
98	P(69)	5.96	0 12:00	11.37	0.52	4.28	0.50	1.10	0.74	0.00		Calculated
99	P(70)	3.82	0 11:56	6.99	0.55	3.28	0.26	1.19	0.96	0.00		Calculated
100	P(71)	2.04	0 11:52	3.87	0.53	2.94	0.28	0.94	0.94	0.00		Calculated
101	P(72)	2.05	0 11:52	3.86	0.53	2.65	0.03	0.96	0.96	0.00		Calculated
102	P(73)	1.80	0 11:56	3.86	0.47	2.65	0.03	0.98	0.98	0.00		Calculated
103	P(74)	2.17	0 12:00	3.86	0.56	3.44	0.02	0.75	0.75	0.00		Calculated
104	P(75)	5.44	0 12:00	11.40	0.48	4.15	0.51	1.02	0.69	0.00		Calculated
105	P(76)	3.11	0 12:00	6.94	0.45	3.11	0.27	1.06	0.87	0.00		Calculated
106	P(77)	1.49	0 12:00	3.86	0.39	2.76	0.31	0.77	0.78	0.00		Calculated
107	P(78)	1.50	0 12:00	3.86	0.39	2.28	0.04	0.78	0.79	0.00		Calculated
108	P(79)	1.65	0 12:00	3.86	0.43	2.85	0.03	0.82	0.83	0.00		Calculated
109	P(80)	2.29	0 11:59	3.86	0.59	3.09	0.03	0.91	0.93	0.00		Calculated
110	P(81)	5.87	0 12:00	11.37	0.52	4.26	0.49	1.09	0.73	0.00		Calculated
111	P(82)	3.82	0 11:57	7.01	0.55	3.28	0.25	1.19	0.95	0.00		Calculated
112	P(83)	2.04	0 11:56	3.86	0.53	2.92	0.30	0.94	0.94	0.00		Calculated
113	P(84)	2.05	0 11:56	3.86	0.53	2.65	0.03	0.96	0.96	0.00		Calculated
114	P(85)	1.81	0 11:56	3.86	0.47	2.77	0.03	0.98	0.98	0.00		Calculated
115	P(86)	2.07	0 11:59	3.86	0.54	2.94	0.03	0.96	0.96	0.00		Calculated
116	P(87)	5.87	0 11:59	11.38	0.52	4.24	0.36	1.25	0.85	0.00		Calculated
117	P(88)	3.82	0 11:59	7.01	0.55	3.18	0.26	1.19	0.95	0.00		Calculated
118	P(89)	2.04	0 11:59	3.86	0.53	2.74	0.32	0.94	0.94	0.00		Calculated
119	P(90)	2.05	0 11:59	3.86	0.53	2.65	0.03	0.96	0.96	0.00		Calculated
120	P(91)	1.98	0 11:57	3.86	0.51	2.86	0.03	0.98	0.98	0.00		Calculated
121	P(92)	2.29	0 11:53	3.86	0.59	3.15	0.03	0.96	0.96	0.00		Calculated
122	P(93)	5.54	0 12:00	11.40	0.49	3.18	0.81	1.43	0.96	0.00		Calculated
123	P(94)	3.27	0 12:00	7.01	0.47	3.11	0.27	1.10	0.88	0.00		Calculated
124	P(95)	1.64	0 12:00	3.86	0.43	2.79	0.31	0.82	0.83	0.00		Calculated
125	P(96)	1.65	0 12:00	3.86	0.43	2.35	0.04	0.83	0.84	0.00		Calculated
126	P(97)	1.65	0 12:00	3.86	0.43	2.82	0.03	0.86	0.86	0.00		Calculated
127	P(98)	2.29	0 11:59	3.86	0.59	3.05	0.03	0.93	0.94	0.00		Calculated
128	P(99)	5.87	0 12:00	11.40	0.52	3.47	0.66	1.46	0.97	0.00		Calculated

Storage Nodes

Storage Node : POND

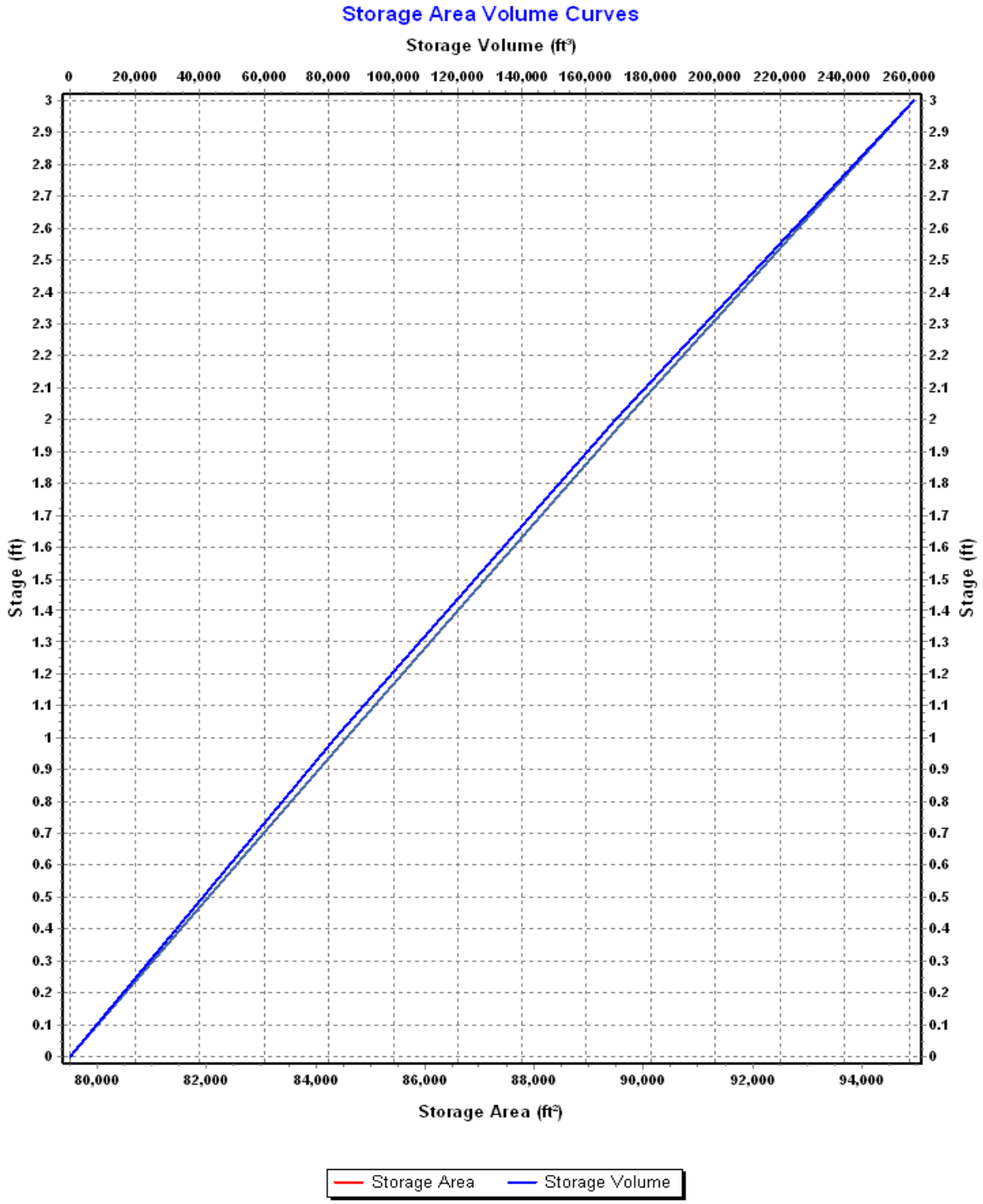
Input Data

Invert Elevation (ft) 768.00
Max (Rim) Elevation (ft) 772.00
Max (Rim) Offset (ft) 4.00
Initial Water Elevation (ft) 768.00
Initial Water Depth (ft) 0.00
Ponded Area (ft²) 100290.00
Evaporation Loss 0.00

Storage Area Volume Curves

Storage Curve : Storage-POND

Stage (ft)	Storage Area (ft²)	Storage Volume (ft³)
0	79508	0.000
1	84543	82025.50
2	89680	169137.00
3	94939	261446.50


Storage Area Volume Curves
Storage Volume (ft³)
0
20,000
40,000
60,000
80,000
100,000
120,000
140,000
160,000
180,000
200,000
220,000
240,000
260,000
Stage (ft)
3
2.9
2.8
2.7
2.6
2.5
2.4
2.3
2.2
2.1
2
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
80,000
82,000
84,000
86,000
88,000
90,000
92,000
94,000
Storage Area (ft²)
Storage Area
Storage Volume

Storage Node : POND (continued)

Outflow Weirs

SN	Element ID	Weir Type	Flap Gate	Crest Elevation (ft)	Crest Offset (ft)	Length (ft)	Weir Total Height (ft)	Discharge Coefficient
1	Weir-RIM	Rectangular	No	770.50	2.50	8.00	1.00	3.33
2	Weir-Spillway	Rectangular	No	771.25	3.25	20.00	0.60	3.33

Outflow Orifices

SN	Element ID	Orifice Type	Orifice Shape	Flap Gate	Circular Orifice Diameter (in)	Rectangular Orifice Height (in)	Rectangular Orifice Width (in)	Orifice Invert Elevation (ft)	Orifice Coefficient
1	Orifice-WQv	Side	CIRCULAR	No	6.10			768.00	0.61

Output Summary Results

Peak Inflow (cfs) 83.40
Peak Lateral Inflow (cfs) 4.86
Peak Outflow (cfs) 14.93
Peak Exfiltration Flow Rate (cfm) 0.00
Max HGL Elevation Attained (ft) 771.10
Max HGL Depth Attained (ft) 3.1
Average HGL Elevation Attained (ft) 770.19
Average HGL Depth Attained (ft) 2.19
Time of Max HGL Occurrence (days hh:mm) 0 12:38
Total Exfiltration Volume (1000-ft³) 0.000
Total Flooded Volume (ac-in) 0
Total Time Flooded (min) 0
Total Retention Time (sec) 0.00

Project Description

File Name ..... 2015-10-21_DESIGN.SPF

Project Options

Flow Units ..... CFS
Elevation Type ..... Elevation
Hydrology Method ..... SCS TR-55
Time of Concentration (TOC) Method ..... SCS TR-55
Link Routing Method ..... Hydrodynamic
Enable Overflow Ponding at Nodes ..... YES
Skip Steady State Analysis Time Periods ..... NO

Analysis Options

Start Analysis On ..... Sep 27, 2015 00:00:00
End Analysis On ..... Sep 28, 2015 00:00:00
Start Reporting On ..... Sep 27, 2015 00:00:00
Antecedent Dry Days ..... 0 days
Runoff (Dry Weather) Time Step ..... 0 01:00:00 days hh:mm:ss
Runoff (Wet Weather) Time Step ..... 0 00:05:00 days hh:mm:ss
Reporting Time Step ..... 0 00:05:00 days hh:mm:ss
Routing Time Step ..... 30 seconds

Number of Elements

	Qty
Rain Gages	1
Subbasins	91
Nodes	130
Junctions	128
Outfalls	1
Flow Diversions	0
Inlets	0
Storage Nodes	1
Links	131
Channels	0
Pipes	128
Pumps	0
Orifices	1
Weirs	2
Outlets	0
Pollutants	0
Land Uses	0

Rainfall Details

SN	Rain Gage ID	Data Source	Data Source ID	Rainfall Type	Rain Units	State	County	Return Period (years)	Rainfall Depth (inches)	Rainfall Distribution
1	Rain Gage-01	Time Series	TS-050	Cumulative	inches	Ohio	Franklin	50	5.00	SCS Type II 24-hr

Subbasin Summary

SN	Subbasin ID	Area (ac)	Weighted Curve Number	Total Rainfall (in)	Total Runoff (in)	Total Runoff Volume (ac-in)	Peak Runoff (cfs)	Time of Concentration (days hh:mm:ss)
1	Sub-D04	0.10	98.00	5.00	4.76	0.48	0.67	0 00:05:00
2	Sub-D05	0.18	98.00	5.00	4.76	0.86	1.17	0 00:05:00
3	Sub-D06	0.17	98.00	5.00	4.76	0.81	1.13	0 00:05:00
4	Sub-D08	0.41	98.00	5.00	4.76	1.95	2.68	0 00:05:00
5	Sub-D09	0.33	98.00	5.00	4.76	1.57	2.18	0 00:05:00
6	Sub-D10	0.33	98.00	5.00	4.76	1.57	2.18	0 00:05:00
7	Sub-D11	0.33	98.00	5.00	4.76	1.57	2.18	0 00:05:00
8	Sub-D12	0.22	98.00	5.00	4.76	1.05	1.43	0 00:05:00
9	Sub-D13	0.18	98.00	5.00	4.76	0.86	1.17	0 00:05:00
10	Sub-D14	0.22	98.00	5.00	4.76	1.05	1.43	0 00:05:00
11	Sub-D15	0.12	98.00	5.00	4.76	0.57	0.80	0 00:05:00
12	Sub-D16	0.06	98.00	5.00	4.76	0.29	0.38	0 00:05:00
13	Sub-D17	0.16	98.00	5.00	4.76	0.76	1.05	0 00:05:00
14	Sub-D18	0.54	98.00	5.00	4.76	2.57	3.52	0 00:05:00
15	Sub-D19	0.33	98.00	5.00	4.76	1.57	2.18	0 00:05:00
16	Sub-D20	0.33	98.00	5.00	4.76	1.57	2.18	0 00:05:00
17	Sub-D21	0.54	98.00	5.00	4.76	2.57	3.52	0 00:05:00
18	Sub-D22	0.14	98.00	5.00	4.76	0.67	0.92	0 00:05:00
19	Sub-D23	0.06	98.00	5.00	4.76	0.29	0.38	0 00:05:00
20	Sub-D24	0.28	98.00	5.00	4.76	1.33	1.85	0 00:05:00
21	Sub-D25	0.25	98.00	5.00	4.76	1.19	1.64	0 00:05:00
22	Sub-D27	0.18	98.00	5.00	4.76	0.86	1.17	0 00:05:00
23	Sub-D28	0.13	98.00	5.00	4.76	0.62	0.84	0 00:05:00
24	Sub-D29	0.78	98.00	5.00	4.76	3.72	5.12	0 00:05:00
25	Sub-D30	0.48	98.00	5.00	4.76	2.29	3.15	0 00:05:00
26	Sub-D31	0.50	98.00	5.00	4.76	2.38	3.27	0 00:05:00
27	Sub-D32	0.52	98.00	5.00	4.76	2.48	3.40	0 00:05:00
28	Sub-D33	0.53	98.00	5.00	4.76	2.52	3.48	0 00:05:00
29	Sub-D34	0.56	98.00	5.00	4.76	2.67	3.69	0 00:05:00
30	Sub-D35	0.34	98.00	5.00	4.76	1.62	2.22	0 00:05:00
31	Sub-D36	0.11	98.00	5.00	4.76	0.52	0.71	0 00:05:00
32	Sub-D37	0.14	98.00	5.00	4.76	0.67	0.92	0 00:05:00
33	Sub-D38	0.77	98.00	5.00	4.76	3.67	5.03	0 00:05:00
34	Sub-D39	0.52	98.00	5.00	4.76	2.48	3.40	0 00:05:00
35	Sub-D40	0.52	98.00	5.00	4.76	2.48	3.40	0 00:05:00
36	Sub-D41	0.52	98.00	5.00	4.76	2.48	3.40	0 00:05:00
37	Sub-D42	0.51	98.00	5.00	4.76	2.43	3.36	0 00:05:00
38	Sub-D43	0.43	98.00	5.00	4.76	2.05	2.81	0 00:05:00
39	Sub-D44	0.70	98.00	5.00	4.76	3.33	4.57	0 00:05:00
40	Sub-D45	0.31	98.00	5.00	4.76	1.48	2.01	0 00:05:00
41	Sub-D46	0.21	98.00	5.00	4.76	1.00	1.38	0 00:05:00
42	Sub-D47	0.19	98.00	5.00	4.76	0.90	1.26	0 00:05:00
43	Sub-D48	0.17	98.00	5.00	4.76	0.81	1.13	0 00:05:00
44	Sub-D49	0.15	98.00	5.00	4.76	0.71	0.96	0 00:05:00
45	Sub-D50	0.19	98.00	5.00	4.76	0.90	1.26	0 00:05:00
46	Sub-D51	0.22	98.00	5.00	4.76	1.05	1.43	0 00:05:00
47	Sub-D52	0.16	98.00	5.00	4.76	0.76	1.05	0 00:05:00
48	Sub-D53	0.19	98.00	5.00	4.76	0.90	1.26	0 00:05:00
49	Sub-D54	0.27	98.00	5.00	4.76	1.29	1.76	0 00:05:00
50	Sub-D55	0.24	98.00	5.00	4.76	1.14	1.59	0 00:05:00
51	Sub-D56	0.09	98.00	5.00	4.76	0.43	0.59	0 00:05:00
52	Sub-D58	0.61	98.00	5.00	4.76	2.91	3.98	0 00:05:00
53	Sub-D60	0.60	98.00	5.00	4.76	2.86	3.94	0 00:05:00
54	Sub-D61	0.12	98.00	5.00	4.76	0.57	0.80	0 00:05:00
55	Sub-POND	1.29	80.00	5.00	2.89	3.73	5.93	0 00:05:00
56	Sub-RD01	0.68	98.00	5.00	4.76	3.24	4.45	0 00:05:00
57	Sub-RD02	0.42	98.00	5.00	4.76	2.00	2.77	0 00:05:00
58	Sub-RD03	0.38	98.00	5.00	4.76	1.81	2.47	0 00:05:00
59	Sub-RD04	0.42	98.00	5.00	4.76	2.00	2.77	0 00:05:00
60	Sub-RD05	0.29	98.00	5.00	4.76	1.38	1.89	0 00:05:00
61	Sub-RD06	0.26	98.00	5.00	4.76	1.24	1.72	0 00:05:00
62	Sub-RD07	0.37	98.00	5.00	4.76	1.76	2.43	0 00:05:00
63	Sub-RD08	0.40	98.00	5.00	4.76	1.91	2.64	0 00:05:00
64	Sub-RD09	0.47	98.00	5.00	4.76	2.24	3.06	0 00:05:00
65	Sub-RD10	0.47	98.00	5.00	4.76	2.24	3.06	0 00:05:00
66	Sub-RD11	0.40	98.00	5.00	4.76	1.91	2.64	0 00:05:00
67	Sub-RD12	0.37	98.00	5.00	4.76	1.76	2.43	0 00:05:00
68	Sub-RD13	0.29	98.00	5.00	4.76	1.38	1.89	0 00:05:00
69	Sub-RD14	0.29	98.00	5.00	4.76	1.38	1.89	0 00:05:00
70	Sub-RD15	0.42	98.00	5.00	4.76	2.00	2.77	0 00:05:00
71	Sub-RD16	0.38	98.00	5.00	4.76	1.81	2.47	0 00:05:00
72	Sub-RD17	0.42	98.00	5.00	4.76	2.00	2.77	0 00:05:00
73	Sub-RD18	0.68	98.00	5.00	4.76	3.24	4.45	0 00:05:00
74	Sub-RD19	0.68	98.00	5.00	4.76	3.24	4.45	0 00:05:00
75	Sub-RD20	0.42	98.00	5.00	4.76	2.00	2.77	0 00:05:00
76	Sub-RD21	0.38	98.00	5.00	4.76	1.81	2.47	0 00:05:00
77	Sub-RD22	0.42	98.00	5.00	4.76	2.00	2.77	0 00:05:00
78	Sub-RD23	0.29	98.00	5.00	4.76	1.38	1.89	0 00:05:00
79	Sub-RD24	0.29	98.00	5.00	4.76	1.38	1.89	0 00:05:00
80	Sub-RD25	0.37	98.00	5.00	4.76	1.76	2.43	0 00:05:00
81	Sub-RD26	0.40	98.00	5.00	4.76	1.91	2.64	0 00:05:00
82	Sub-RD27	0.47	98.00	5.00	4.76	2.24	3.06	0 00:05:00

Subbasin Summary

SN	Subbasin ID	Area (ac)	Weighted Curve Number	Total Rainfall (in)	Total Runoff (in)	Total Runoff Volume (ac-in)	Peak Runoff (cfs)	Time of Concentration (days hh:mm:ss)
83	Sub-RD29	0.47	98.00	5.00	4.76	2.24	3.06	0 00:05:00
84	Sub-RD30	0.40	98.00	5.00	4.76	1.91	2.64	0 00:05:00
85	Sub-RD31	0.37	98.00	5.00	4.76	1.76	2.43	0 00:05:00
86	Sub-RD32	0.29	98.00	5.00	4.76	1.38	1.89	0 00:05:00
87	Sub-RD33	0.29	98.00	5.00	4.76	1.38	1.89	0 00:05:00
88	Sub-RD34	0.42	98.00	5.00	4.76	2.00	2.77	0 00:05:00
89	Sub-RD35	0.38	98.00	5.00	4.76	1.81	2.47	0 00:05:00
90	Sub-RD36	0.42	98.00	5.00	4.76	2.00	2.77	0 00:05:00
91	Sub-RD37	0.68	98.00	5.00	4.76	3.24	4.45	0 00:05:00

Node Summary

SN	Element ID	Element Type	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Initial Water Elevation (ft)	Surcharge Elevation (ft)	Ponded Area (ft²)	Peak Inflow (cfs)	Max HGL Elevation Attained (ft)	Max Surcharge Depth Attained (ft)	Min Freeboard Attained (ft)	Time of Peak Flooding Occurrence (days hh:mm)	Total Flooded Volume (ac-in)	Total Time Flooded (min)
1	(100)	Junction	776.42	772.06	776.42	772.06	0.00	5.88	777.84	0.00	0.08	0 00:00	0.00	0.00
2	(101)	Junction	777.17	772.54	777.17	772.54	0.00	3.84	778.38	0.00	0.04	0 00:00	0.00	0.00
3	(102)	Junction	777.94	773.05	777.94	773.05	0.00	2.05	778.86	0.00	0.08	0 00:00	0.00	0.00
4	(106)	Junction	775.82	771.46	775.82	771.46	0.00	5.71	777.28	0.00	0.04	0 00:00	0.00	0.00
5	(107)	Junction	776.57	771.94	776.57	771.94	0.00	3.75	777.76	0.00	0.06	0 00:00	0.00	0.00
6	(108)	Junction	777.34	772.44	777.34	772.44	0.00	1.88	778.21	0.00	0.13	0 00:00	0.00	0.00
7	(112)	Junction	776.20	771.84	776.20	771.84	0.00	5.89	777.62	0.00	0.08	0 00:00	0.00	0.00
8	(113)	Junction	776.95	772.32	776.95	772.32	0.00	3.85	778.16	0.00	0.04	0 00:00	0.00	0.00
9	(114)	Junction	777.72	772.82	777.72	772.82	0.00	2.05	778.64	0.00	0.08	0 00:00	0.00	0.00
10	(119)	Junction	774.40	770.04	774.40	770.04	0.00	5.88	775.82	0.00	0.08	0 00:00	0.00	0.00
11	(120)	Junction	775.15	770.52	775.15	770.52	0.00	3.84	776.36	0.00	0.04	0 00:00	0.00	0.00
12	(121)	Junction	775.92	771.03	775.92	771.03	0.00	2.05	776.84	0.00	0.08	0 00:00	0.00	0.00
13	(125)	Junction	774.41	770.05	774.41	770.05	0.00	5.84	775.82	0.00	0.09	0 00:00	0.00	0.00
14	(126)	Junction	775.16	770.53	775.16	770.53	0.00	3.75	776.35	0.00	0.06	0 00:00	0.00	0.00
15	(127)	Junction	775.93	771.04	775.93	771.04	0.00	1.88	776.80	0.00	0.13	0 00:00	0.00	0.00
16	(131)	Junction	774.44	770.08	774.44	770.08	0.00	5.89	775.86	0.00	0.08	0 00:00	0.00	0.00
17	(132)	Junction	775.19	770.56	775.19	770.56	0.00	3.85	776.40	0.00	0.04	0 00:00	0.00	0.00
18	(133)	Junction	775.96	771.07	775.96	771.07	0.00	2.05	776.88	0.00	0.08	0 00:00	0.00	0.00
19	(137)	Junction	775.70	771.35	775.70	771.35	0.00	5.88	777.12	0.00	0.08	0 00:00	0.00	0.00
20	(138)	Junction	776.45	771.82	776.45	771.82	0.00	3.84	777.66	0.00	0.04	0 00:00	0.00	0.00
21	(139)	Junction	777.22	772.33	777.22	772.33	0.00	2.05	778.14	0.00	0.08	0 00:00	0.00	0.00
22	(143)	Junction	776.16	771.80	776.16	771.80	0.00	5.84	777.57	0.00	0.09	0 00:00	0.00	0.00
23	(144)	Junction	776.90	772.28	776.90	772.28	0.00	3.75	778.09	0.00	0.07	0 00:00	0.00	0.00
24	(145)	Junction	777.68	772.78	777.68	772.78	0.00	1.88	778.55	0.00	0.13	0 00:00	0.00	0.00
25	(149)	Junction	776.63	772.28	776.63	772.28	0.00	5.89	778.05	0.00	0.08	0 00:00	0.00	0.00
26	(150)	Junction	777.38	772.75	777.38	772.75	0.00	3.85	778.59	0.00	0.04	0 00:00	0.00	0.00
27	(151)	Junction	778.15	773.26	778.15	773.26	0.00	2.05	779.07	0.00	0.08	0 00:00	0.00	0.00
28	(81)	Junction	774.27	770.95	774.27	770.95	0.00	6.11	775.73	0.00	1.04	0 00:00	0.00	0.00
29	(82)	Junction	775.04	770.41	775.04	770.41	0.00	3.84	776.25	0.00	0.04	0 00:00	0.00	0.00
30	(83)	Junction	775.79	770.90	775.79	770.90	0.00	2.05	776.71	0.00	0.08	0 00:00	0.00	0.00
31	(87)	Junction	774.77	770.41	774.77	770.41	0.00	5.73	776.18	0.00	0.09	0 00:00	0.00	0.00
32	(88)	Junction	775.51	770.89	775.51	770.89	0.00	3.59	776.66	0.00	0.11	0 00:00	0.00	0.00
33	(89)	Junction	776.29	771.39	776.29	771.39	0.00	1.71	777.12	0.00	0.17	0 00:00	0.00	0.00
34	(94)	Junction	775.25	770.90	775.25	770.90	0.00	5.89	776.67	0.00	0.08	0 00:00	0.00	0.00
35	(95)	Junction	776.00	771.37	776.00	771.37	0.00	3.85	777.21	0.00	0.04	0 00:00	0.00	0.00
36	(96)	Junction	776.77	771.88	776.77	771.88	0.00	2.05	777.69	0.00	0.08	0 00:00	0.00	0.00
37	D02	Junction	767.94	771.00	767.94	771.00	0.00	20.38	770.40	0.00	1.39	0 00:00	0.00	0.00
38	D04	Junction	768.63	774.75	768.63	774.75	0.00	34.62	771.57	0.00	5.14	0 00:00	0.00	0.00
39	D05	Junction	768.84	775.40	768.84	776.16	225.00	32.22	772.05	0.00	3.35	0 00:00	0.00	0.00
40	D06	Junction	769.06	775.67	769.06	776.16	225.00	31.06	772.52	0.00	3.16	0 00:00	0.00	0.00
41	D07	Junction	769.37	774.54	769.37	774.54	0.00	30.09	773.00	0.00	1.53	0 00:00	0.00	0.00
42	D08	Junction	769.94	771.96	769.94	772.62	1945.00	31.01	773.67	0.00	0.83	0 00:00	0.00	0.00
43	D09	Junction	770.21	772.06	770.21	772.06	0.00	25.63	773.90	0.00	1.10	0 00:00	0.00	0.00
44	D10	Junction	770.99	772.16	770.99	772.16	0.00	28.82	773.99	0.00	0.00	0 12:00	3.22	18.00
45	D11	Junction	771.26	772.26	771.26	772.82	1945.00	26.64	774.36	0.00	1.14	0 00:00	0.00	0.00
46	D12	Junction	771.54	772.36	771.54	772.36	0.00	24.39	774.54	0.00	0.00	0 12:00	0.88	15.00
47	D13	Junction	771.79	776.05	771.79	776.99	4500.00	23.00	775.15	0.00	0.89	0 00:00	0.00	0.00
48	D14	Junction	772.17	775.76	772.17	776.84	3586.00	21.86	775.83	0.00	2.81	0 00:00	0.00	0.00
49	D15	Junction	772.34	776.79	772.34	777.40	223.00	18.04	776.14	0.00	2.16	0 00:00	0.00	0.00
50	D16	Junction	772.52	777.10	772.52	777.63	205.00	16.75	776.40	0.00	0.70	0 00:00	0.00	0.00
51	D17	Junction	772.79	776.75	772.79	778.07	4335.00	17.01	776.70	0.00	0.30	0 00:00	0.00	0.00
52	D18	Junction	773.77	772.45	773.77	773.27	1575.00	13.32	776.84	0.57	0.00	0 11:56	0.28	17.00
53	D19	Junction	774.05	772.55	774.05	773.27	1575.00	9.37	776.85	0.80	0.00	0 11:54	0.36	23.00
54	D20	Junction	774.32	772.65	774.32	773.37	1575.00	10.94	776.85	0.53	0.00	0 11:54	0.26	22.00
55	D21	Junction	774.60	772.75	774.60	772.75	0.00	14.98	776.60	0.00	0.00	0 12:02	2.98	17.00
56	D22	Junction	775.71	776.22	775.71	776.22	0.00	3.58	776.76	0.00	0.45	0 00:00	0.00	0.00
57	D23	Junction	776.26	776.70	776.26	776.70	0.00	2.66	777.13	0.00	0.63	0 00:00	0.00	0.00
58	D24	Junction	777.89	776.12	777.89	776.12	0.00	3.44	778.89	0.00	0.00	0 12:00	0.12	10.00
59	D25	Junction	779.33	776.44	779.33	776.44	0.00	1.64	780.13	0.00	0.20	0 00:00	0.00	0.00
60	D27	Junction	768.65	773.41	768.65	774.80	2500.00	38.16	771.38	0.00	2.03	0 00:00	0.00	0.00
61	D28	Junction	768.72	773.41	768.72	774.80	2500.00	37.13	771.89	0.00	2.03	0 00:00	0.00	0.00
62	D29	Junction	769.20	772.38	769.20	774.80	100300.00	35.89	772.76	0.00	2.24	0 00:00	0.00	0.00
63	D30	Junction	769.47	772.62	769.47	773.17	4064.00	28.23	773.10	0.49	0.00	0 11:58	0.56	25.00
64	D31	Junction	769.75	772.72	769.75	773.27	4064.00	25.91	773.38	0.00	1.62	0 00:00	0.00	0.00
65	D32	Junction	770.02	772.82	770.02	773.37	4064.00	25.60	773.50	0.48	0.00	0 11:49	0.55	29.00
66	D33	Junction	770.30	772.92	770.30	773.47	4064.00	24.09	773.57	0.00	1.43	0 00:00	0.00	0.00
67	D34	Junction	770.57	773.02	770.57	773.02	0.00	25.04	773.57	0.00	0.00	0 12:02	4.76	24.00
68	D35	Junction	771.20	773.46	771.20	773.70	200.00	21.44	773.98	0.28	0.00	0 11:49	0.02	27.00
69	D36	Junction	771.41	776.28	771.41	776.49	212.00	19.37	774.38	0.00	1.90	0 00:00	0.00	0.00
70	D37	Junction	771.49	776.22	771.49	776.49	241.00	16.55	774.51	0.00	3.14	0 00:00	0.00	0.00
71	D38	Junction	771.85	772.65	771.85	776.47	131026.00	16.25	774.65	0.00	1.35	0 00:00	0.00	0.00
72	D39	Junction	772.14	772.79	772.14	772.79	0.00	20.21	774.64	0.00	0.00	0 12:00	4.92	26.00
73	D40	Junction	772.92	772.89	772.92	773.44	3310.00	16.44	775.55	0.00	0.95	0 00:00	0.00	0.00
74	D41	Junction	773.19	772.99	773.19	773.54	3089.00	11.63	775.74	0.55	0.00	0 11:52	0.48	27.00
75	D42	Junction	773.47	773.09	773.47	773.64	3516.00	9.89	775.81	0.00	1.19	0 00:00	0.00	0.00
76	D43	Junction	773.74	773.19	773.74	773.19	0.00	13.30	775.74	0.00	0.00	0 12:00	2.49	18.00
77	D44	Junction	773.88	773.55	773.88	773.55	0.00	6.45	775.85	0.00	0.03	0 00:00	0.00	0.00
78	D45	Junction	775.52	776.40	775.52	777.27	7643.00	2.01	776.52	0.00	0.00	0 00:00	0.00	0.00
79	D46	Junction	774.93	776.01	774.93	776.01	0.00	5.92	776.35	0.00	0.08	0 00:00	0.00	0.00
80	D47	Junction	775.70	775.90	775.70	775.90	0.00	4.57	776.91	0.00	0.29	0 00:00	0.00	0.00
81	D48	Junction	776.08	774.35	776.08	774.35	0.00	3.32	777.19	0.00	0.14	0 00:00	0.00	0.00

Node Summary

SN	Element ID	Element Type	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Initial Water Elevation (ft)	Surcharge Elevation (ft)	Ponded Area (ft²)	Peak Inflow (cfs)	Max HGL Elevation Attained (ft)	Max Surcharge Depth Attained (ft)	Min Freeboard Attained (ft)	Time of Peak Flooding Occurrence (days hh:mm)	Total Flooded Volume (ac-in)	Total Time Flooded (min)
82	D49	Junction	776.63	774.35	776.63	774.35	0.00	2.21	777.60	0.00	0.03	0 00:00	0.00	0.00
83	D50	Junction	776.82	776.38	776.82	776.38	0.00	1.26	777.65	0.00	0.17	0 00:00	0.00	0.00
84	D51	Junction	778.29	776.85	778.29	776.85	0.00	1.43	779.01	0.00	0.28	0 00:00	0.00	0.00
85	D52	Junction	778.47	776.52	778.47	776.52	0.00	1.05	779.07	0.00	0.40	0 00:00	0.00	0.00
86	D53	Junction	776.89	775.58	776.89	775.58	0.00	1.26	777.36	0.00	1.03	0 00:00	0.00	0.00
87	D54	Junction	777.35	775.40	777.35	775.40	0.00	1.76	778.18	0.00	0.17	0 00:00	0.00	0.00
88	D55	Junction	778.32	775.39	778.32	775.39	0.00	1.59	779.11	0.00	0.21	0 00:00	0.00	0.00
89	D56	Junction	775.84	775.74	775.84	775.80	1000.00	0.59	776.19	0.00	0.65	0 00:00	0.00	0.00
90	D58	Junction	770.00	767.01	770.00	767.01	0.00	3.98	771.00	0.00	0.00	0 12:26	3.22	127.00
91	D60	Junction	768.75	773.70	768.75	773.70	0.00	24.38	773.70	0.00	0.00	0 04:45	0.52	5.00
92	D61	Junction	768.90	773.70	768.90	773.72	0.00	20.38	773.72	0.02	0.00	0 04:46	0.06	1.00
93	RD01	Junction	775.84	770.95	775.84	770.95	0.00	4.45	776.84	0.00	0.00	0 12:00	0.36	18.00
94	RD02	Junction	775.34	770.45	775.34	770.45	0.00	2.77	776.34	0.00	0.00	0 12:00	0.10	11.00
95	RD03	Junction	775.82	770.93	775.82	770.93	0.00	2.47	776.82	0.00	0.00	0 12:00	0.00	3.00
96	RD04	Junction	775.32	770.42	775.32	770.42	0.00	2.77	776.32	0.00	0.00	0 12:00	0.03	6.00
97	RD05	Junction	775.82	770.92	775.82	770.92	0.00	1.89	776.77	0.00	0.05	0 00:00	0.00	0.00
98	RD06	Junction	776.34	771.44	776.34	771.44	0.00	1.72	777.23	0.00	0.11	0 00:00	0.00	0.00
99	RD07	Junction	775.80	770.91	775.80	770.91	0.00	2.43	776.80	0.00	0.00	0 12:00	0.02	6.00
100	RD08	Junction	776.30	771.41	776.30	771.41	0.00	2.64	777.30	0.00	0.00	0 12:00	0.08	10.00
101	RD09	Junction	776.82	771.93	776.82	771.93	0.00	3.06	777.82	0.00	0.00	0 12:00	0.10	11.00
102	RD10	Junction	776.01	771.12	776.01	771.12	0.00	3.06	777.01	0.00	0.00	0 12:00	0.10	11.00
103	RD11	Junction	775.49	770.60	775.49	770.60	0.00	2.64	776.49	0.00	0.00	0 12:00	0.08	10.00
104	RD12	Junction	774.99	770.10	774.99	770.10	0.00	2.43	775.99	0.00	0.00	0 12:00	0.02	6.00
105	RD13	Junction	775.98	771.09	775.98	771.09	0.00	1.89	776.92	0.00	0.06	0 00:00	0.00	0.00
106	RD14	Junction	775.46	770.56	775.46	770.56	0.00	1.89	776.45	0.00	0.01	0 00:00	0.00	0.00
107	RD15	Junction	774.96	770.07	774.96	770.07	0.00	2.77	775.96	0.00	0.00	0 12:00	0.04	6.00
108	RD16	Junction	775.97	771.08	775.97	771.08	0.00	2.47	776.97	0.00	0.00	0 12:00	0.02	6.00
109	RD17	Junction	775.45	770.55	775.45	770.55	0.00	2.77	776.45	0.00	0.00	0 12:00	0.09	10.00
110	RD18	Junction	774.95	770.06	774.95	770.06	0.00	4.45	775.95	0.00	0.00	0 12:00	0.33	16.00
111	RD19	Junction	776.97	772.08	776.97	772.08	0.00	4.45	777.97	0.00	0.00	0 12:00	0.33	16.00
112	RD20	Junction	777.47	772.57	777.47	772.57	0.00	2.77	778.47	0.00	0.00	0 12:00	0.09	10.00
113	RD21	Junction	777.99	773.10	777.99	773.10	0.00	2.47	778.99	0.00	0.00	0 12:00	0.02	6.00
114	RD22	Junction	776.37	771.47	776.37	771.47	0.00	2.77	777.37	0.00	0.00	0 12:00	0.06	8.00
115	RD23	Junction	776.87	771.97	776.87	771.97	0.00	1.89	777.86	0.00	0.01	0 00:00	0.00	0.00
116	RD24	Junction	777.39	772.49	777.39	772.49	0.00	1.89	778.33	0.00	0.06	0 00:00	0.00	0.00
117	RD25	Junction	776.75	771.85	776.75	771.85	0.00	2.43	777.75	0.00	0.00	0 12:00	0.02	6.00
118	RD26	Junction	777.25	772.35	777.25	772.35	0.00	2.64	778.25	0.00	0.00	0 12:00	0.08	10.00
119	RD27	Junction	777.77	772.87	777.77	772.87	0.00	3.06	778.77	0.00	0.00	0 12:00	0.10	11.00
120	RD29	Junction	778.20	773.31	778.20	773.31	0.00	3.06	779.20	0.00	0.00	0 12:00	0.10	11.00
121	RD30	Junction	777.68	772.79	777.68	772.79	0.00	2.64	778.68	0.00	0.00	0 12:00	0.08	10.00
122	RD31	Junction	777.18	772.29	777.18	772.29	0.00	2.43	778.18	0.00	0.00	0 12:00	0.02	6.00
123	RD32	Junction	777.73	772.83	777.73	772.83	0.00	1.89	778.67	0.00	0.06	0 00:00	0.00	0.00
124	RD33	Junction	777.21	772.31	777.21	772.31	0.00	1.89	778.19	0.00	0.02	0 00:00	0.00	0.00
125	RD34	Junction	776.71	771.81	776.71	771.81	0.00	2.77	777.71	0.00	0.00	0 12:00	0.04	6.00
126	RD35	Junction	777.27	772.38	777.27	772.38	0.00	2.47	778.27	0.00	0.00	0 12:00	0.02	6.00
127	RD36	Junction	776.75	771.86	776.75	771.86	0.00	2.77	777.75	0.00	0.00	0 12:00	0.09	10.00
128	RD37	Junction	773.25	771.36	773.25	771.36	0.00	4.45	777.25	0.00	0.00	0 12:00	0.33	16.00
129	D01	Outfall	764.40					20.38	764.40					
130	POND	Storage Node	768.00	772.00	768.00		100290.00	85.91	771.29				0.00	0.00

Link Summary

SN	Element ID	Element Type	From (Inlet) Node	To (Outlet) Node	Length (ft)	Inlet Invert Elevation (ft)	Outlet Invert Elevation (ft)	Average Slope (%)	Diameter or Height (in)	Manning's Roughness	Peak Flow (cfs)	Peak Flow Velocity (ft/sec)	Peak Flow Depth (ft)	Total Time Surcharged (min)
1	Link-01	Pipe	D60	POND	49.90	771.00	767.00	8.0200	12.000	0.0150	35.58	50.00	1.00	2.00
2	Link-02	Pipe	D61	D60	30.20	768.90	768.75	0.5000	12.000	0.0150	24.34	50.00	1.00	981.00
3	Link-03	Pipe	D02	D01	54.17	767.94	767.40	1.0000	24.000	0.0150	20.38	6.82	1.81	0.00
4	P(100)	Pipe	(113)	(112)	49.86	776.95	776.45	1.0000	15.000	0.0120	3.82	3.27	1.19	0.00
5	P(101)	Pipe	(114)	(113)	52.12	777.72	777.20	1.0000	12.000	0.0120	2.04	2.92	0.94	0.00
6	P(102)	Pipe	RD27	(114)	5.00	777.77	777.72	1.0000	12.000	0.0120	2.05	2.65	0.96	0.00
7	P(103)	Pipe	RD26	(113)	5.00	777.25	777.20	1.0000	12.000	0.0120	1.81	2.78	0.98	0.00
8	P(104)	Pipe	RD25	(112)	5.00	776.75	776.70	1.0000	12.000	0.0120	2.06	2.94	0.96	0.00
9	P(105)	Pipe	(119)	D29	90.03	774.40	773.50	1.0000	18.000	0.0120	5.87	4.26	1.09	0.00
10	P(106)	Pipe	(120)	(119)	49.86	775.15	774.65	1.0000	15.000	0.0120	3.82	3.18	1.19	0.00
11	P(107)	Pipe	(121)	(120)	52.12	775.92	775.40	1.0000	12.000	0.0120	2.04	2.74	0.94	0.00
12	P(108)	Pipe	RD16	(121)	5.00	775.97	775.92	1.0000	12.000	0.0120	2.05	2.65	0.96	0.00
13	P(109)	Pipe	RD17	(120)	5.00	775.45	775.40	1.0000	12.000	0.0120	1.99	2.87	0.98	0.00
14	P(110)	Pipe	RD18	(119)	5.00	774.95	774.90	1.0000	12.000	0.0120	2.29	3.15	0.96	0.00
15	P(111)	Pipe	(125)	D31	91.03	774.41	773.50	1.0000	18.000	0.0120	5.83	4.25	1.09	0.00
16	P(112)	Pipe	(126)	(125)	49.86	775.16	774.66	1.0000	15.000	0.0120	3.74	3.13	1.17	0.00
17	P(113)	Pipe	(127)	(126)	52.12	775.93	775.41	1.0000	12.000	0.0120	1.87	2.79	0.90	0.00
18	P(114)	Pipe	RD13	(127)	5.00	775.98	775.93	1.0000	12.000	0.0120	1.88	2.51	0.90	0.00
19	P(115)	Pipe	RD14	(126)	5.00	775.46	775.41	1.0000	12.000	0.0120	1.88	2.82	0.96	0.00
20	P(116)	Pipe	RD15	(125)	5.00	774.96	774.91	1.0000	12.000	0.0120	2.29	3.06	0.96	0.00
21	P(117)	Pipe	(131)	D33	94.06	774.44	773.50	1.0000	18.000	0.0120	5.87	4.26	1.09	0.00
22	P(118)	Pipe	(132)	(131)	49.86	775.19	774.69	1.0000	15.000	0.0120	3.82	3.27	1.19	0.00
23	P(119)	Pipe	(133)	(132)	52.12	775.96	775.44	1.0000	12.000	0.0120	2.04	2.92	0.94	0.00
24	P(120)	Pipe	RD10	(133)	5.00	776.01	775.96	1.0000	12.000	0.0120	2.05	2.65	0.96	0.00
25	P(121)	Pipe	RD11	(132)	5.00	775.49	775.44	1.0000	12.000	0.0120	1.81	2.78	0.98	0.00
26	P(122)	Pipe	RD12	(131)	5.00	774.99	774.94	1.0000	12.000	0.0120	2.07	2.94	0.96	0.00
27	P(123)	Pipe	(137)	D38	120.37	775.70	774.50	1.0000	18.000	0.0120	5.87	4.26	1.09	0.00
28	P(124)	Pipe	(138)	(137)	49.86	776.45	775.95	1.0000	15.000	0.0120	3.82	3.18	1.19	0.00
29	P(125)	Pipe	(139)	(138)	52.12	777.22	776.70	1.0000	12.000	0.0120	2.04	2.74	0.94	0.00
30	P(126)	Pipe	RD35	(139)	5.00	777.27	777.22	1.0000	12.000	0.0120	2.05	2.65	0.96	0.00
31	P(127)	Pipe	RD36	(138)	5.00	776.75	776.70	1.0000	12.000	0.0120	1.99	2.87	0.98	0.00
32	P(128)	Pipe	RD37	(137)	5.00	776.25	776.20	1.0000	12.000	0.0120	2.29	3.16	0.96	0.00
33	P(129)	Pipe	(143)	D40	115.56	776.16	775.00	1.0000	18.000	0.0120	5.82	4.25	1.08	0.00
34	P(130)	Pipe	(144)	(143)	49.86	776.90	776.41	0.9800	15.000	0.0120	3.74	3.13	1.17	0.00
35	P(131)	Pipe	(145)	(144)	52.12	777.68	777.16	1.0000	12.000	0.0120	1.87	2.80	0.90	0.00
36	P(132)	Pipe	RD32	(145)	5.00	777.73	777.68	1.0000	12.000	0.0120	1.88	2.51	0.90	0.00
37	P(133)	Pipe	RD33	(144)	5.03	777.21	777.16	0.9900	12.000	0.0120	1.88	2.82	0.95	0.00
38	P(134)	Pipe	RD34	(143)	5.00	776.71	776.66	1.0000	12.000	0.0120	2.29	3.06	0.96	0.00
39	P(135)	Pipe	(149)	D42	113.42	776.63	775.50	1.0000	18.000	0.0120	5.87	4.26	1.09	0.00
40	P(136)	Pipe	(150)	(149)	49.86	777.38	776.88	1.0000	15.000	0.0120	3.82	3.28	1.19	0.00
41	P(137)	Pipe	(151)	(150)	52.12	778.15	777.63	1.0000	12.000	0.0120	2.04	2.92	0.94	0.00
42	P(138)	Pipe	RD29	(151)	5.00	778.20	778.15	1.0000	12.000	0.0120	2.05	2.65	0.96	0.00
43	P(139)	Pipe	RD30	(150)	5.00	777.68	777.63	1.0000	12.000	0.0120	1.81	2.78	0.98	0.00
44	P(140)	Pipe	RD31	(149)	5.00	777.18	777.13	1.0000	12.000	0.0120	2.07	2.94	0.96	0.00
45	P(15)	Pipe	D58	POND	58.56	770.00	768.50	2.5600	12.000	0.0120	3.20	4.08	1.00	126.00
46	P(16)	Pipe	D07	D06	123.16	769.37	769.06	0.2500	36.000	0.0120	30.07	4.25	3.00	24.00
47	P(16) (1)	Pipe	D08	D07	226.84	769.94	769.37	0.2500	36.000	0.0120	30.09	4.26	3.00	23.00
48	P(17)	Pipe	D09	D08	110.00	770.21	769.94	0.2500	36.000	0.0120	25.39	3.59	3.00	23.00
49	P(18)	Pipe	D10	D09	110.00	770.99	770.21	0.7100	36.000	0.0120	22.70	3.37	3.00	18.00
50	P(19)	Pipe	D11	D10	110.00	771.26	770.99	0.2500	36.000	0.0120	26.65	3.77	3.00	17.00
51	P(20)	Pipe	D12	D11	110.00	771.54	771.26	0.2500	36.000	0.0120	20.46	3.11	3.00	15.00
52	P(23)	Pipe	D18	D17	192.59	773.77	773.29	0.2500	30.000	0.0120	13.05	3.83	2.50	17.00
53	P(24)	Pipe	D19	D18	110.00	774.05	773.77	0.2500	24.000	0.0120	10.57	3.38	2.00	22.00
54	P(25)	Pipe	D20	D19	110.00	774.32	774.05	0.2500	24.000	0.0120	8.12	2.74	2.00	22.00
55	P(26)	Pipe	D21	D20	110.00	774.60	774.32	0.2500	24.000	0.0120	8.52	2.71	2.00	17.00
56	P(27)	Pipe	D22	D21	121.80	775.71	775.10	0.5000	18.000	0.0120	3.56	2.91	1.27	0.00
57	P(28)	Pipe	D23	D22	110.16	776.26	775.71	0.5000	18.000	0.0120	2.66	2.46	0.96	0.00
58	P(29)	Pipe	D24	D23	113.60	777.89	776.76	0.9900	12.000	0.0120	2.29	3.49	0.78	0.00
59	P(30)	Pipe	D25	D24	144.00	779.33	777.89	1.0000	12.000	0.0120	1.61	2.16	0.90	0.00
60	P(31)	Pipe	D27	POND	58.17	768.65	768.50	0.2600	48.000	0.0120	38.16	5.13	2.73	0.00
61	P(32)	Pipe	D28	D27	30.00	768.72	768.65	0.2300	36.000	0.0120	37.13	5.38	2.83	0.00
62	P(33)	Pipe	D29	D28	191.79	769.20	768.72	0.2500	36.000	0.0120	35.90	5.08	3.00	17.00
63	P(34)	Pipe	D30	D29	110.00	769.47	769.20	0.2500	36.000	0.0120	27.89	3.95	3.00	27.00
64	P(35)	Pipe	D31	D30	110.00	769.75	769.47	0.2500	36.000	0.0120	25.82	3.65	3.00	29.00
65	P(36)	Pipe	D32	D31	110.00	770.02	769.75	0.2500	36.000	0.0120	22.76	3.22	3.00	29.00
66	P(37)	Pipe	D33	D32	110.00	770.30	770.02	0.2500	36.000	0.0120	24.12	3.41	3.00	28.00
67	P(38)	Pipe	D34	D33	110.00	770.57	770.30	0.2500	36.000	0.0120	19.29	2.84	3.00	24.00
68	P(39)	Pipe	D35	D34	50.09	771.20	771.07	0.2600	30.000	0.0120	21.43	4.37	2.50	24.00
69	P(39) (1)	Pipe	D36	D35	84.79	771.41	771.20	0.2500	30.000	0.0120	19.25	3.92	2.50	27.00
70	P(40)	Pipe	D37	D36	30.63	771.49	771.41	0.2600	30.000	0.0120	16.04	3.27	2.50	28.00
71	P(41)	Pipe	D38	D37	145.53	771.85	771.49	0.2500	30.000	0.0120	15.64	3.19	2.50	28.00
72	P(42)	Pipe	D39	D38	115.67	772.14	771.85	0.2500	30.000	0.0120	11.26	2.36	2.50	26.00
73	P(43)	Pipe	D40	D39	110.00	772.92	772.64	0.2500	24.000	0.0120	16.34	5.20	2.00	26.00
74	P(44)	Pipe	D41	D40	110.00	773.19	772.92	0.2500	24.000	0.0120	9.68	3.08	2.00	27.00
75	P(45)	Pipe	D42	D41	110.00	773.47	773.19	0.2500	24.000	0.0120	9.83	3.13	2.00	23.00
76	P(46)	Pipe	D43	D42	110.00	773.74	773.47	0.2500	24.000	0.0120	4.44	1.63	2.00	18.00
77	P(47)	Pipe	D44	D43	55.00	773.88	773.74	0.2500	24.000	0.0120	6.48	2.07	1.98	0.00
78	P(48)	Pipe	D45	D44	255.74	775.52	774.88	0.2500	12.000	0.0120	1.95	2.50	0.96	0.00
79	P(49)	Pipe	D13	D12	100.80	771.79	771.54	0.2500	30.000	0.0120	23.00	4.69	2.50	22.00
80	P(50)	Pipe	D14	D13	152.05	772.17	771.79	0.2500	30.000	0.0120	21.88	4.46	2.50	22.00
81	P(51)	Pipe	D53	D14	108.00	776.89	775.81	1.0000	18.000	0.0120	1.23	3.20	0.40	0.00

Link Summary

SN	Element ID	Element Type	From (Inlet) Node	To (Outlet) Node	Length	Inlet Invert Elevation	Outlet Invert Elevation	Average Slope	Diameter or Height	Manning's Roughness	Peak Flow	Peak Flow Velocity	Peak Flow Depth	Total Time Surcharged
					(ft)	(ft)	(ft)	(%)	(in)		(cfs)	(ft/sec)	(ft)	(min)
82	P(53)	Pipe	D16	D15	70.60	772.52	772.34	0.2500	30.000	0.0120	16.75	3.41	2.50	24.00
83	P(54)	Pipe	D52	D15	117.00	778.47	777.30	1.0000	12.000	0.0120	1.01	2.94	0.47	0.00
84	P(55)	Pipe	D51	D37	163.40	778.29	776.65	1.0000	12.000	0.0120	1.37	2.99	0.55	0.00
85	P(56)	Pipe	D46	D36	161.45	774.93	773.31	1.0000	18.000	0.0120	5.89	3.76	1.24	0.00
86	P(57)	Pipe	D47	D46	76.76	775.70	774.93	1.0000	18.000	0.0120	4.54	2.77	1.31	0.00
87	P(58)	Pipe	D48	D47	13.14	776.08	775.95	0.9900	15.000	0.0120	3.32	3.26	1.03	0.00
88	P(59)	Pipe	D49	D48	29.92	776.63	776.33	1.0000	12.000	0.0120	2.20	2.94	0.91	0.00
89	P(60)	Pipe	D50	D49	13.28	776.82	776.63	1.4300	12.000	0.0120	1.25	1.68	0.89	0.00
90	P(61)	Pipe	D04	POND	52.97	768.63	768.50	0.2500	36.000	0.0120	34.59	5.62	2.76	0.00
91	P(62)	Pipe	D05	D04	82.14	768.83	768.63	0.2400	36.000	0.0120	32.22	4.57	2.97	0.00
92	P(63)	Pipe	D06	D05	90.00	769.05	768.83	0.2400	36.000	0.0120	31.06	4.39	3.00	20.00
93	P(64)	Pipe	D17	D16	108.60	772.79	772.52	0.2500	30.000	0.0120	16.55	3.37	2.50	24.00
94	P(65)	Pipe	D55	D14	67.82	778.32	777.64	1.0000	12.000	0.0120	1.57	3.09	0.61	0.00
95	P(66)	Pipe	D54	D04	82.14	777.35	775.71	2.0000	12.000	0.0120	1.76	3.49	0.61	0.00
96	P(67)	Pipe	D56	D28	46.08	773.84	772.92	2.0000	12.000	0.0120	0.58	3.58	0.26	0.00
97	P(68)	Pipe	D15	D14	69.52	772.34	772.17	0.2400	30.000	0.0120	18.06	3.68	2.50	23.00
98	P(69)	Pipe	(81)	D08	127.13	774.27	773.00	1.0000	18.000	0.0120	6.11	4.31	1.12	0.00
99	P(70)	Pipe	(82)	(81)	52.12	775.04	774.52	1.0000	15.000	0.0120	3.82	3.28	1.21	0.00
100	P(71)	Pipe	(83)	(82)	49.86	775.79	775.29	1.0000	12.000	0.0120	2.04	2.94	0.94	0.00
101	P(72)	Pipe	RD01	(83)	5.00	775.84	775.79	1.0000	12.000	0.0120	2.05	2.65	0.96	0.00
102	P(73)	Pipe	RD02	(82)	5.00	775.34	775.29	1.0000	12.000	0.0120	1.80	2.66	0.98	0.00
103	P(74)	Pipe	RD03	(81)	5.00	775.82	775.77	1.0000	12.000	0.0120	2.29	3.49	0.78	0.00
104	P(75)	Pipe	(87)	D09	126.56	774.77	773.50	1.0000	18.000	0.0120	5.71	4.21	1.07	0.00
105	P(76)	Pipe	(88)	(87)	49.86	775.51	775.02	0.9800	15.000	0.0120	3.56	3.11	1.15	0.00
106	P(77)	Pipe	(89)	(88)	52.12	776.29	775.77	1.0000	12.000	0.0120	1.72	2.77	0.86	0.00
107	P(78)	Pipe	RD06	(89)	5.00	776.34	776.29	1.0000	12.000	0.0120	1.71	2.39	0.86	0.00
108	P(79)	Pipe	RD05	(88)	5.00	775.82	775.77	1.0000	12.000	0.0120	1.88	2.85	0.92	0.00
109	P(80)	Pipe	RD04	(87)	5.00	775.32	775.27	1.0000	12.000	0.0120	2.29	3.10	0.95	0.00
110	P(81)	Pipe	(94)	D11	125.15	775.25	774.00	1.0000	18.000	0.0120	5.87	4.26	1.09	0.00
111	P(82)	Pipe	(95)	(94)	49.86	776.00	775.50	1.0000	15.000	0.0120	3.82	3.28	1.19	0.00
112	P(83)	Pipe	(96)	(95)	52.12	776.77	776.25	1.0000	12.000	0.0120	2.04	2.92	0.94	0.00
113	P(84)	Pipe	RD09	(96)	5.00	776.82	776.77	1.0000	12.000	0.0120	2.05	2.65	0.96	0.00
114	P(85)	Pipe	RD08	(95)	5.00	776.30	776.25	1.0000	12.000	0.0120	1.81	2.78	0.98	0.00
115	P(86)	Pipe	RD07	(94)	5.00	775.80	775.75	1.0000	12.000	0.0120	2.07	2.94	0.96	0.00
116	P(87)	Pipe	(100)	D17	92.04	776.42	775.50	1.0000	18.000	0.0120	5.87	4.22	1.30	0.00
117	P(88)	Pipe	(101)	(100)	49.86	777.17	776.67	1.0000	15.000	0.0120	3.82	3.18	1.19	0.00
118	P(89)	Pipe	(102)	(101)	52.12	777.94	777.42	1.0000	12.000	0.0120	2.04	2.74	0.94	0.00
119	P(90)	Pipe	RD21	(102)	5.00	777.99	777.94	1.0000	12.000	0.0120	2.05	2.65	0.96	0.00
120	P(91)	Pipe	RD20	(101)	5.00	777.47	777.42	1.0000	12.000	0.0120	1.99	2.87	0.98	0.00
121	P(92)	Pipe	RD19	(100)	5.00	776.97	776.92	1.0000	12.000	0.0120	2.29	3.15	0.96	0.00
122	P(93)	Pipe	(106)	D18	154.50	775.82	774.27	1.0000	18.000	0.0120	5.56	3.19	1.47	0.00
123	P(94)	Pipe	(107)	(106)	49.86	776.57	776.07	1.0000	15.000	0.0120	3.74	3.11	1.19	0.00
124	P(95)	Pipe	(108)	(107)	52.12	777.34	776.82	1.0000	12.000	0.0120	1.87	2.79	0.90	0.00
125	P(96)	Pipe	RD24	(108)	5.00	777.39	777.34	1.0000	12.000	0.0120	1.88	2.51	0.90	0.00
126	P(97)	Pipe	RD23	(107)	5.00	776.87	776.82	1.0000	12.000	0.0120	1.88	2.82	0.96	0.00
127	P(98)	Pipe	RD22	(106)	5.00	776.37	776.32	1.0000	12.000	0.0120	2.29	3.05	0.97	0.00
128	P(99)	Pipe	(112)	D20	137.40	776.20	774.82	1.0000	18.000	0.0120	5.87	3.45	1.46	0.00
129	Orifice-WQv	Orifice	POND	D02		768.00	767.94		6.100		1.47			
130	Weir-RIM	Weir	POND	D02		768.00	767.94				18.83			
131	Weir-Spillway	Weir	POND	D02		768.00	767.94				0.60			

Junction Input

SN	Element ID	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Surcharge Elevation (ft)	Surcharge Depth (ft)	Ponded Area (ft²)	Minimum Pipe Cover (in)
1	(100)	776.42	772.06	-4.36	772.06	0.00	0.00	0.00
2	(101)	777.17	772.54	-4.63	772.54	0.00	0.00	0.00
3	(102)	777.94	773.05	-4.89	773.05	0.00	0.00	0.00
4	(106)	775.82	771.46	-4.36	771.46	0.00	0.00	0.00
5	(107)	776.57	771.94	-4.63	771.94	0.00	0.00	0.00
6	(108)	777.34	772.44	-4.90	772.44	0.00	0.00	0.00
7	(112)	776.20	771.84	-4.36	771.84	0.00	0.00	0.00
8	(113)	776.95	772.32	-4.63	772.32	0.00	0.00	0.00
9	(114)	777.72	772.82	-4.90	772.82	0.00	0.00	0.00
10	(119)	774.40	770.04	-4.36	770.04	0.00	0.00	0.00
11	(120)	775.15	770.52	-4.63	770.52	0.00	0.00	0.00
12	(121)	775.92	771.03	-4.89	771.03	0.00	0.00	0.00
13	(125)	774.41	770.05	-4.36	770.05	0.00	0.00	0.00
14	(126)	775.16	770.53	-4.63	770.53	0.00	0.00	0.00
15	(127)	775.93	771.04	-4.89	771.04	0.00	0.00	0.00
16	(131)	774.44	770.08	-4.36	770.08	0.00	0.00	0.00
17	(132)	775.19	770.56	-4.63	770.56	0.00	0.00	0.00
18	(133)	775.96	771.07	-4.89	771.07	0.00	0.00	0.00
19	(137)	775.70	771.35	-4.35	771.35	0.00	0.00	0.00
20	(138)	776.45	771.82	-4.63	771.82	0.00	0.00	0.00
21	(139)	777.22	772.33	-4.89	772.33	0.00	0.00	0.00
22	(143)	776.16	771.80	-4.36	771.80	0.00	0.00	0.00
23	(144)	776.90	772.28	-4.62	772.28	0.00	0.00	0.00
24	(145)	777.68	772.78	-4.90	772.78	0.00	0.00	0.00
25	(149)	776.63	772.28	-4.35	772.28	0.00	0.00	0.00
26	(150)	777.38	772.75	-4.63	772.75	0.00	0.00	0.00
27	(151)	778.15	773.26	-4.89	773.26	0.00	0.00	0.00
28	(81)	774.27	770.95	-3.32	770.95	0.00	0.00	0.00
29	(82)	775.04	770.41	-4.63	770.41	0.00	0.00	0.00
30	(83)	775.79	770.90	-4.89	770.90	0.00	0.00	0.00
31	(87)	774.77	770.41	-4.36	770.41	0.00	0.00	0.00
32	(88)	775.51	770.89	-4.62	770.89	0.00	0.00	0.00
33	(89)	776.29	771.39	-4.90	771.39	0.00	0.00	0.00
34	(94)	775.25	770.90	-4.35	770.90	0.00	0.00	0.00
35	(95)	776.00	771.37	-4.63	771.37	0.00	0.00	0.00
36	(96)	776.77	771.88	-4.89	771.88	0.00	0.00	0.00
37	D02	767.94	771.00	3.06	771.00	0.00	0.00	0.00
38	D04	768.63	774.75	6.12	774.75	0.00	0.00	0.00
39	D05	768.84	775.40	6.56	776.16	0.76	225.00	42.89
40	D06	769.06	775.67	6.61	776.16	0.49	225.00	43.37
41	D07	769.37	774.54	5.17	774.54	0.00	0.00	26.01
42	D08	769.94	771.96	2.02	772.62	0.66	1945.00	0.00
43	D09	770.21	772.06	1.85	772.06	0.00	0.00	0.00
44	D10	770.99	772.16	1.17	772.16	0.00	0.00	0.00
45	D11	771.26	772.26	1.00	772.82	0.56	1945.00	0.00
46	D12	771.54	772.36	0.82	772.36	0.00	0.00	0.00
47	D13	771.79	776.05	4.26	776.99	0.95	4500.00	21.06
48	D14	772.17	775.76	3.59	776.84	1.08	3586.00	0.00
49	D15	772.34	776.79	4.45	777.40	0.61	223.00	0.00
50	D16	772.52	777.10	4.58	777.63	0.53	205.00	25.01
51	D17	772.79	776.75	3.96	778.07	1.32	4335.00	0.00
52	D18	773.77	772.45	-1.32	773.27	0.82	1575.00	0.00
53	D19	774.05	772.55	-1.50	773.27	0.72	1575.00	0.00
54	D20	774.32	772.65	-1.67	773.37	0.72	1575.00	0.00
55	D21	774.60	772.75	-1.85	772.75	0.00	0.00	0.00
56	D22	775.71	776.22	0.51	776.22	0.00	0.00	0.00
57	D23	776.26	776.70	0.44	776.70	0.00	0.00	0.00
58	D24	777.89	776.12	-1.77	776.12	0.00	0.00	0.00
59	D25	779.33	776.44	-2.89	776.44	0.00	0.00	0.00
60	D27	768.65	773.41	4.76	774.80	1.39	2500.00	9.12
61	D28	768.72	773.41	4.69	774.80	1.39	2500.00	0.00
62	D29	769.20	772.38	3.18	774.80	2.42	100300.00	0.00
63	D30	769.47	772.62	3.15	773.17	0.55	4064.00	1.76
64	D31	769.75	772.72	2.97	773.27	0.55	4064.00	0.00
65	D32	770.02	772.82	2.80	773.37	0.55	4064.00	0.00
66	D33	770.30	772.92	2.62	773.47	0.55	4064.00	0.00
67	D34	770.57	773.02	2.45	773.02	0.00	0.00	0.00
68	D35	771.20	773.46	2.26	773.70	0.24	200.00	0.00
69	D36	771.41	776.28	4.87	776.49	0.21	212.00	17.64
70	D37	771.49	776.22	4.73	776.49	0.27	241.00	0.00
71	D38	771.85	772.65	0.80	776.47	3.82	131026.00	0.00
72	D39	772.14	772.79	0.65	772.79	0.00	0.00	0.00
73	D40	772.92	772.89	-0.03	773.44	0.55	3310.00	0.00
74	D41	773.19	772.99	-0.20	773.54	0.55	3089.00	0.00
75	D42	773.47	773.09	-0.38	773.64	0.55	3516.00	0.00
76	D43	773.74	773.19	-0.55	773.19	0.00	0.00	0.00
77	D44	773.88	773.55	-0.33	773.55	0.00	0.00	0.00
78	D45	775.52	776.40	0.88	777.27	0.87	7643.00	0.00
79	D46	774.93	776.01	1.08	776.01	0.00	0.00	0.00
80	D47	775.70	775.90	0.20	775.90	0.00	0.00	0.00
81	D48	776.08	774.35	-1.73	774.35	0.00	0.00	0.00
82	D49	776.63	774.35	-2.28	774.35	0.00	0.00	0.00

Junction Input

SN	Element ID	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Surcharge Elevation (ft)	Surcharge Depth (ft)	Ponded Area (ft²)	Minimum Pipe Cover (in)
83	D50	776.82	776.38	-0.44	776.38	0.00	0.00	0.00
84	D51	778.29	776.85	-1.44	776.85	0.00	0.00	0.00
85	D52	778.47	776.52	-1.96	776.52	0.00	0.00	0.00
86	D53	776.89	775.58	-1.31	775.58	0.00	0.00	0.00
87	D54	777.35	775.40	-1.95	775.40	0.00	0.00	0.00
88	D55	778.32	775.39	-2.93	775.39	0.00	0.00	0.00
89	D56	775.84	775.74	-0.10	775.80	0.06	1000.00	10.76
90	D58	770.00	767.01	-2.99	767.01	0.00	0.00	0.00
91	D60	768.75	773.70	4.95	773.70	0.00	0.00	20.40
92	D61	768.90	773.70	4.80	773.72	0.02	0.00	45.60
93	RD01	775.84	770.95	-4.89	770.95	0.00	0.00	0.00
94	RD02	775.34	770.45	-4.89	770.45	0.00	0.00	0.00
95	RD03	775.82	770.93	-4.89	770.93	0.00	0.00	0.00
96	RD04	775.32	770.42	-4.90	770.42	0.00	0.00	0.00
97	RD05	775.82	770.92	-4.90	770.92	0.00	0.00	0.00
98	RD06	776.34	771.44	-4.90	771.44	0.00	0.00	0.00
99	RD07	775.80	770.91	-4.89	770.91	0.00	0.00	0.00
100	RD08	776.30	771.41	-4.89	771.41	0.00	0.00	0.00
101	RD09	776.82	771.93	-4.89	771.93	0.00	0.00	0.00
102	RD10	776.01	771.12	-4.89	771.12	0.00	0.00	0.00
103	RD11	775.49	770.60	-4.90	770.60	0.00	0.00	0.00
104	RD12	774.99	770.10	-4.89	770.10	0.00	0.00	0.00
105	RD13	775.98	771.09	-4.90	771.09	0.00	0.00	0.00
106	RD14	775.46	770.56	-4.90	770.56	0.00	0.00	0.00
107	RD15	774.96	770.07	-4.90	770.07	0.00	0.00	0.00
108	RD16	775.97	771.08	-4.90	771.08	0.00	0.00	0.00
109	RD17	775.45	770.55	-4.90	770.55	0.00	0.00	0.00
110	RD18	774.95	770.06	-4.90	770.06	0.00	0.00	0.00
111	RD19	776.97	772.08	-4.90	772.08	0.00	0.00	0.00
112	RD20	777.47	772.57	-4.90	772.57	0.00	0.00	0.00
113	RD21	777.99	773.10	-4.90	773.10	0.00	0.00	0.00
114	RD22	776.37	771.47	-4.90	771.47	0.00	0.00	0.00
115	RD23	776.87	771.97	-4.90	771.97	0.00	0.00	0.00
116	RD24	777.39	772.49	-4.90	772.49	0.00	0.00	0.00
117	RD25	776.75	771.85	-4.90	771.85	0.00	0.00	0.00
118	RD26	777.25	772.35	-4.90	772.35	0.00	0.00	0.00
119	RD27	777.77	772.87	-4.90	772.87	0.00	0.00	0.00
120	RD29	778.20	773.31	-4.89	773.31	0.00	0.00	0.00
121	RD30	777.68	772.79	-4.89	772.79	0.00	0.00	0.00
122	RD31	777.18	772.29	-4.89	772.29	0.00	0.00	0.00
123	RD32	777.73	772.83	-4.90	772.83	0.00	0.00	0.00
124	RD33	777.21	772.31	-4.90	772.31	0.00	0.00	0.00
125	RD34	776.71	771.81	-4.90	771.81	0.00	0.00	0.00
126	RD35	777.27	772.38	-4.89	772.38	0.00	0.00	0.00
127	RD36	776.75	771.86	-4.89	771.86	0.00	0.00	0.00
128	RD37	773.25	771.36	-1.89	771.36	0.00	0.00	0.00

Junction Results

SN	Element ID	Peak Inflow (cfs)	Peak Lateral Inflow (cfs)	Max HGL Elevation Attained (ft)	Max HGL Depth Attained (ft)	Max Surcharge Depth Attained (ft)	Min Freeboard Attained (ft)	Average HGL Elevation Attained (ft)	Average HGL Depth Attained (ft)	Time of Max HGL Occurrence (days hh:mm)	Time of Peak Flooding Occurrence (days hh:mm)	Total Flooded Volume (ac-in)	Total Time Flooded (min)
1	(100)	5.88	0.00	777.84	1.42	0.00	0.08	776.84	0.42	0 11:58	0 00:00	0.00	0.00
2	(101)	3.84	0.00	778.38	1.21	0.00	0.04	777.50	0.33	0 11:57	0 00:00	0.00	0.00
3	(102)	2.05	0.00	778.86	0.92	0.00	0.08	778.18	0.24	0 11:57	0 00:00	0.00	0.00
4	(106)	5.71	0.00	777.28	1.46	0.00	0.04	776.18	0.36	0 12:00	0 00:00	0.00	0.00
5	(107)	3.75	0.00	777.76	1.19	0.00	0.06	776.86	0.29	0 12:00	0 00:00	0.00	0.00
6	(108)	1.88	0.00	778.21	0.87	0.00	0.13	777.55	0.21	0 12:00	0 00:00	0.00	0.00
7	(112)	5.89	0.00	777.62	1.42	0.00	0.08	776.59	0.39	0 11:59	0 00:00	0.00	0.00
8	(113)	3.85	0.00	778.16	1.21	0.00	0.04	777.29	0.34	0 11:55	0 00:00	0.00	0.00
9	(114)	2.05	0.00	778.64	0.92	0.00	0.08	777.99	0.27	0 11:55	0 00:00	0.00	0.00
10	(119)	5.88	0.00	775.82	1.42	0.00	0.08	774.82	0.42	0 12:02	0 00:00	0.00	0.00
11	(120)	3.84	0.00	776.36	1.21	0.00	0.04	775.48	0.33	0 11:57	0 00:00	0.00	0.00
12	(121)	2.05	0.00	776.84	0.92	0.00	0.08	776.16	0.24	0 11:57	0 00:00	0.00	0.00
13	(125)	5.84	0.00	775.82	1.41	0.00	0.09	774.77	0.36	0 12:00	0 00:00	0.00	0.00
14	(126)	3.75	0.00	776.35	1.19	0.00	0.06	775.45	0.29	0 12:00	0 00:00	0.00	0.00
15	(127)	1.88	0.00	776.80	0.87	0.00	0.13	776.14	0.21	0 12:00	0 00:00	0.00	0.00
16	(131)	5.89	0.00	775.86	1.42	0.00	0.08	774.83	0.39	0 12:01	0 00:00	0.00	0.00
17	(132)	3.85	0.00	776.40	1.21	0.00	0.04	775.53	0.34	0 11:55	0 00:00	0.00	0.00
18	(133)	2.05	0.00	776.88	0.92	0.00	0.08	776.23	0.27	0 11:55	0 00:00	0.00	0.00
19	(137)	5.88	0.00	777.12	1.42	0.00	0.08	776.12	0.42	0 12:02	0 00:00	0.00	0.00
20	(138)	3.84	0.00	777.66	1.21	0.00	0.04	776.78	0.33	0 11:57	0 00:00	0.00	0.00
21	(139)	2.05	0.00	778.14	0.92	0.00	0.08	777.46	0.24	0 11:57	0 00:00	0.00	0.00
22	(143)	5.84	0.00	777.57	1.41	0.00	0.09	776.52	0.36	0 12:00	0 00:00	0.00	0.00
23	(144)	3.75	0.00	778.09	1.19	0.00	0.07	777.19	0.29	0 12:00	0 00:00	0.00	0.00
24	(145)	1.88	0.00	778.55	0.87	0.00	0.13	777.89	0.21	0 12:00	0 00:00	0.00	0.00
25	(149)	5.89	0.00	778.05	1.42	0.00	0.08	777.02	0.39	0 12:02	0 00:00	0.00	0.00
26	(150)	3.85	0.00	778.59	1.21	0.00	0.04	777.72	0.34	0 11:55	0 00:00	0.00	0.00
27	(151)	2.05	0.00	779.07	0.92	0.00	0.08	778.42	0.27	0 11:55	0 00:00	0.00	0.00
28	(81)	6.11	0.00	775.73	1.46	0.00	1.04	774.69	0.42	0 12:01	0 00:00	0.00	0.00
29	(82)	3.84	0.00	776.25	1.21	0.00	0.04	775.41	0.37	0 11:55	0 00:00	0.00	0.00
30	(83)	2.05	0.00	776.71	0.92	0.00	0.08	776.09	0.30	0 11:50	0 00:00	0.00	0.00
31	(87)	5.73	0.00	776.18	1.41	0.00	0.09	775.13	0.36	0 12:00	0 00:00	0.00	0.00
32	(88)	3.59	0.00	776.66	1.15	0.00	0.11	775.79	0.28	0 12:00	0 00:00	0.00	0.00
33	(89)	1.71	0.00	777.12	0.83	0.00	0.17	776.49	0.20	0 12:00	0 00:00	0.00	0.00
34	(94)	5.89	0.00	776.67	1.42	0.00	0.08	775.64	0.39	0 12:02	0 00:00	0.00	0.00
35	(95)	3.85	0.00	777.21	1.21	0.00	0.04	776.34	0.34	0 11:55	0 00:00	0.00	0.00
36	(96)	2.05	0.00	777.69	0.92	0.00	0.08	777.04	0.27	0 11:55	0 00:00	0.00	0.00
37	D02	20.38	0.00	770.40	2.46	0.00	1.39	768.81	0.87	0 12:30	0 00:00	0.00	0.00
38	D04	34.62	0.67	771.57	2.94	0.00	5.14	770.52	1.89	0 12:00	0 00:00	0.00	0.00
39	D05	32.22	1.17	772.05	3.21	0.00	3.35	770.65	1.81	0 12:00	0 00:00	0.00	0.00
40	D06	31.06	1.13	772.52	3.46	0.00	3.16	770.77	1.71	0 12:00	0 00:00	0.00	0.00
41	D07	30.09	0.00	773.00	3.63	0.00	1.53	770.93	1.56	0 12:00	0 00:00	0.00	0.00
42	D08	31.01	2.68	773.67	3.73	0.00	0.83	771.20	1.26	0 11:59	0 00:00	0.00	0.00
43	D09	25.63	2.18	773.90	3.69	0.00	1.10	771.34	1.13	0 12:00	0 00:00	0.00	0.00
44	D10	28.82	2.18	773.99	3.00	0.00	0.00	771.92	0.93	0 11:52	0 12:00	3.22	18.00
45	D11	26.64	2.18	774.36	3.10	0.00	1.14	772.20	0.94	0 11:57	0 00:00	0.00	0.00
46	D12	24.39	1.43	774.54	3.00	0.00	0.00	772.43	0.89	0 11:53	0 12:00	0.88	15.00
47	D13	23.00	1.17	775.15	3.36	0.00	0.89	772.70	0.91	0 12:00	0 00:00	0.00	0.00
48	D14	21.86	1.43	775.83	3.66	0.00	2.81	773.09	0.92	0 12:00	0 00:00	0.00	0.00
49	D15	18.04	0.80	776.14	3.80	0.00	2.16	773.27	0.93	0 12:00	0 00:00	0.00	0.00
50	D16	16.75	0.38	776.40	3.88	0.00	0.70	773.44	0.92	0 12:01	0 00:00	0.00	0.00
51	D17	17.01	1.05	776.70	3.91	0.00	0.30	773.70	0.91	0 12:01	0 00:00	0.00	0.00
52	D18	13.32	3.52	776.84	3.07	0.57	0.00	774.52	0.75	0 12:03	0 11:56	0.28	17.00
53	D19	9.37	2.18	776.85	2.80	0.80	0.00	774.72	0.67	0 12:03	0 11:54	0.36	23.00
54	D20	10.94	2.18	776.85	2.53	0.53	0.00	774.95	0.63	0 12:03	0 11:54	0.26	22.00
55	D21	14.98	3.52	776.60	2.00	0.00	0.00	775.08	0.48	0 11:55	0 12:02	2.98	17.00
56	D22	3.58	0.92	776.76	1.05	0.00	0.45	776.02	0.31	0 12:00	0 00:00	0.00	0.00
57	D23	2.66	0.38	777.13	0.87	0.00	0.63	776.53	0.27	0 12:00	0 00:00	0.00	0.00
58	D24	3.44	1.84	778.89	1.00	0.00	0.00	778.17	0.28	0 11:55	0 12:00	0.12	10.00
59	D25	1.64	1.64	780.13	0.80	0.00	0.20	779.53	0.20	0 12:00	0 00:00	0.00	0.00
60	D27	38.16	1.17	771.38	2.73	0.00	2.03	770.52	1.87	0 12:18	0 00:00	0.00	0.00
61	D28	37.13	0.84	771.89	3.17	0.00	2.03	770.65	1.93	0 12:02	0 00:00	0.00	0.00
62	D29	35.89	5.12	772.76	3.56	0.00	2.24	770.88	1.68	0 12:02	0 00:00	0.00	0.00
63	D30	28.23	3.15	773.10	3.63	0.49	0.00	771.02	1.55	0 12:03	0 11:58	0.56	25.00
64	D31	25.91	3.27	773.38	3.63	0.00	1.62	771.15	1.40	0 12:02	0 00:00	0.00	0.00
65	D32	25.60	3.40	773.50	3.48	0.48	0.00	771.27	1.25	0 12:02	0 11:49	0.55	29.00
66	D33	24.09	3.48	773.57	3.27	0.00	1.43	771.41	1.11	0 12:01	0 00:00	0.00	0.00
67	D34	25.04	3.69	773.57	3.00	0.00	0.00	771.59	1.02	0 11:49	0 12:02	4.76	24.00
68	D35	21.44	2.22	773.98	2.78	0.28	0.00	772.14	0.94	0 12:00	0 11:49	0.02	27.00
69	D36	19.37	0.71	774.38	2.97	0.00	1.90	772.37	0.96	0 12:00	0 00:00	0.00	0.00
70	D37	16.55	0.92	774.51	3.02	0.00	3.14	772.47	0.98	0 12:00	0 00:00	0.00	0.00
71	D38	16.25	5.03	774.65	2.80	0.00	1.35	772.75	0.90	0 11:56	0 00:00	0.00	0.00
72	D39	20.21	3.40	774.64	2.50	0.00	0.00	772.94	0.80	0 11:48	0 12:00	4.92	26.00
73	D40	16.44	3.40	775.55	2.63	0.00	0.95	773.68	0.76	0 12:00	0 00:00	0.00	0.00
74	D41	11.63	3.40	775.74	2.55	0.55	0.00	773.89	0.70	0 12:01	0 11:52	0.48	27.00
75	D42	9.89	3.35	775.81	2.34	0.00	1.19	774.12	0.65	0 12:01	0 00:00	0.00	0.00
76	D43	13.30	2.81	775.74	2.00	0.00	0.00	774.25	0.51	0 11:51	0 12:00	2.49	18.00
77	D44	6.45	4.57	775.85	1.97	0.00	0.03	774.34	0.46	0 12:00	0 00:00	0.00	0.00
78	D45	2.01	2.01	776.52	1.00	0.00	0.00	775.75	0.23	0 12:00	0 00:00	0.00	0.00
79	D46	5.92	1.38	776.35	1.42	0.00	0.08	775.28	0.35	0 12:00	0 00:00	0.00	0.00
80	D47	4.57	1.26	776.91	1.21	0.00	0.29	776.00	0.30	0 12:00	0 00:00	0.00	0.00
81	D48	3.32	1.13	777.19	1.11	0.00	0.14	776.35	0.27	0 12:00	0 00:00	0.00	0.00

Junction Results

SN	Element ID	Peak Inflow (cfs)	Peak Lateral Inflow (cfs)	Max HGL Elevation Attained (ft)	Max HGL Depth Attained (ft)	Max Surcharge Depth Attained (ft)	Min Freeboard Attained (ft)	Average HGL Elevation Attained (ft)	Average HGL Depth Attained (ft)	Time of Max HGL Occurrence (days hh:mm)	Time of Peak Flooding Occurrence (days hh:mm)	Total Flooded Volume (ac-in)	Total Time Flooded (min)
82	D49	2.21	0.96	777.60	0.97	0.00	0.03	776.86	0.23	0 12:00	0 00:00	0.00	0.00
83	D50	1.26	1.26	777.65	0.83	0.00	0.17	777.00	0.18	0 12:00	0 00:00	0.00	0.00
84	D51	1.43	1.43	779.01	0.72	0.00	0.28	778.47	0.18	0 12:00	0 00:00	0.00	0.00
85	D52	1.05	1.05	779.07	0.60	0.00	0.40	778.63	0.16	0 12:00	0 00:00	0.00	0.00
86	D53	1.26	1.26	777.36	0.47	0.00	1.03	777.04	0.15	0 12:00	0 00:00	0.00	0.00
87	D54	1.76	1.76	778.18	0.83	0.00	0.17	777.55	0.20	0 12:00	0 00:00	0.00	0.00
88	D55	1.59	1.59	779.11	0.79	0.00	0.21	778.52	0.20	0 12:00	0 00:00	0.00	0.00
89	D56	0.59	0.59	776.19	0.35	0.00	0.65	775.93	0.09	0 12:00	0 00:00	0.00	0.00
90	D58	3.98	3.98	771.00	1.00	0.00	0.00	770.67	0.67	0 11:53	0 12:26	3.22	127.00
91	D60	24.38	3.94	773.70	4.95	0.00	0.00	771.08	2.33	0 04:37	0 04:45	0.52	5.00
92	D61	20.38	0.80	773.72	4.82	0.02	0.00	771.09	2.19	0 03:18	0 04:46	0.06	1.00
93	RD01	4.45	4.45	776.84	1.00	0.00	0.00	776.16	0.32	0 11:50	0 12:00	0.36	18.00
94	RD02	2.77	2.77	776.34	1.00	0.00	0.00	775.61	0.27	0 11:55	0 12:00	0.10	11.00
95	RD03	2.47	2.47	776.82	1.00	0.00	0.00	776.07	0.25	0 11:59	0 12:00	0.00	3.00
96	RD04	2.77	2.77	776.32	1.00	0.00	0.00	775.58	0.26	0 11:57	0 12:00	0.03	6.00
97	RD05	1.89	1.89	776.77	0.95	0.00	0.05	776.04	0.22	0 12:00	0 00:00	0.00	0.00
98	RD06	1.72	1.72	777.23	0.89	0.00	0.11	776.55	0.21	0 12:00	0 00:00	0.00	0.00
99	RD07	2.43	2.43	776.80	1.00	0.00	0.00	776.05	0.25	0 11:57	0 12:00	0.02	6.00
100	RD08	2.64	2.64	777.30	1.00	0.00	0.00	776.56	0.26	0 11:55	0 12:00	0.08	10.00
101	RD09	3.06	3.06	777.82	1.00	0.00	0.00	777.09	0.27	0 11:55	0 12:00	0.10	11.00
102	RD10	3.06	3.06	777.01	1.00	0.00	0.00	776.28	0.27	0 11:55	0 12:00	0.10	11.00
103	RD11	2.64	2.64	776.49	1.00	0.00	0.00	775.75	0.26	0 11:55	0 12:00	0.08	10.00
104	RD12	2.43	2.43	775.99	1.00	0.00	0.00	775.24	0.25	0 11:57	0 12:00	0.02	6.00
105	RD13	1.89	1.89	776.92	0.94	0.00	0.06	776.20	0.22	0 12:00	0 00:00	0.00	0.00
106	RD14	1.89	1.89	776.45	0.99	0.00	0.01	775.68	0.22	0 12:00	0 00:00	0.00	0.00
107	RD15	2.77	2.77	775.96	1.00	0.00	0.00	775.22	0.26	0 11:57	0 12:00	0.04	6.00
108	RD16	2.47	2.47	776.97	1.00	0.00	0.00	776.22	0.25	0 11:57	0 12:00	0.02	6.00
109	RD17	2.77	2.77	776.45	1.00	0.00	0.00	775.71	0.26	0 11:56	0 12:00	0.09	10.00
110	RD18	4.45	4.45	775.95	1.00	0.00	0.00	775.26	0.31	0 11:51	0 12:00	0.33	16.00
111	RD19	4.45	4.45	777.97	1.00	0.00	0.00	777.28	0.31	0 11:51	0 12:00	0.33	16.00
112	RD20	2.77	2.77	778.47	1.00	0.00	0.00	777.73	0.26	0 11:56	0 12:00	0.09	10.00
113	RD21	2.47	2.47	778.99	1.00	0.00	0.00	778.24	0.25	0 11:57	0 12:00	0.02	6.00
114	RD22	2.77	2.77	777.37	1.00	0.00	0.00	776.63	0.26	0 11:57	0 12:00	0.06	8.00
115	RD23	1.89	1.89	777.86	0.99	0.00	0.01	777.09	0.22	0 12:00	0 00:00	0.00	0.00
116	RD24	1.89	1.89	778.33	0.94	0.00	0.06	777.61	0.22	0 12:00	0 00:00	0.00	0.00
117	RD25	2.43	2.43	777.75	1.00	0.00	0.00	777.00	0.25	0 11:57	0 12:00	0.02	6.00
118	RD26	2.64	2.64	778.25	1.00	0.00	0.00	777.51	0.26	0 11:55	0 12:00	0.08	10.00
119	RD27	3.06	3.06	778.77	1.00	0.00	0.00	778.04	0.27	0 11:55	0 12:00	0.10	11.00
120	RD29	3.06	3.06	779.20	1.00	0.00	0.00	778.47	0.27	0 11:55	0 12:00	0.10	11.00
121	RD30	2.64	2.64	778.68	1.00	0.00	0.00	777.94	0.26	0 11:55	0 12:00	0.08	10.00
122	RD31	2.43	2.43	778.18	1.00	0.00	0.00	777.43	0.25	0 11:57	0 12:00	0.02	6.00
123	RD32	1.89	1.89	778.67	0.94	0.00	0.06	777.95	0.22	0 12:00	0 00:00	0.00	0.00
124	RD33	1.89	1.89	778.19	0.98	0.00	0.02	777.43	0.22	0 12:00	0 00:00	0.00	0.00
125	RD34	2.77	2.77	777.71	1.00	0.00	0.00	776.97	0.26	0 11:57	0 12:00	0.04	6.00
126	RD35	2.47	2.47	778.27	1.00	0.00	0.00	777.52	0.25	0 11:57	0 12:00	0.02	6.00
127	RD36	2.77	2.77	777.75	1.00	0.00	0.00	777.01	0.26	0 11:56	0 12:00	0.09	10.00
128	RD37	4.45	4.45	777.25	4.00	0.00	0.00	776.53	3.28	0 11:51	0 12:00	0.33	16.00

Pipe Input

SN	Element ID	Length (ft)	Inlet Invert Elevation (ft)	Inlet Invert Offset (ft)	Outlet Invert Elevation (ft)	Outlet Invert Offset (ft)	Total Drop (ft)	Average Slope (%)	Pipe Shape	Pipe Diameter or Height (in)	Pipe Width (in)	Manning's Roughness	Entrance Losses	Exit/Bend Losses	Additional Losses	Initial Flow (cfs)	Flap Gate	No. of Barrels
1	Link-01	49.90	771.00	2.25	767.00	-1.00	4.00	8.0200	CIRCULAR	12.000	12.000	0.0150	0.5000	0.5000	0.0000	0.00	No	1
2	Link-02	30.20	768.90	0.00	768.75	0.00	0.15	0.5000	CIRCULAR	12.000	12.000	0.0150	0.5000	0.5000	0.0000	0.00	No	1
3	Link-03	54.17	767.94	0.00	767.40	3.00	0.54	1.0000	CIRCULAR	24.000	24.000	0.0150	0.5000	0.5000	0.0000	0.00	No	1
4	P(100)	49.86	776.95	0.00	776.45	0.25	0.50	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
5	P(101)	52.12	777.72	0.00	777.20	0.25	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
6	P(102)	5.00	777.77	0.00	777.72	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
7	P(103)	5.00	777.25	0.00	777.20	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
8	P(104)	5.00	776.75	0.00	776.70	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
9	P(105)	90.03	774.40	0.00	773.50	4.30	0.90	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
10	P(106)	49.86	775.15	0.00	774.65	0.25	0.50	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
11	P(107)	52.12	775.92	0.00	775.40	0.25	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
12	P(108)	5.00	775.97	0.00	775.92	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
13	P(109)	5.00	775.45	0.00	775.40	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
14	P(110)	5.00	774.95	0.00	774.90	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
15	P(111)	91.03	774.41	0.00	773.50	3.75	0.91	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
16	P(112)	49.86	775.16	0.00	774.66	0.25	0.50	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
17	P(113)	52.12	775.93	0.00	775.41	0.25	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
18	P(114)	5.00	775.98	0.00	775.93	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
19	P(115)	5.00	775.46	0.00	775.41	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
20	P(116)	5.00	774.96	0.00	774.91	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
21	P(117)	94.06	774.44	0.00	773.50	3.20	0.94	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
22	P(118)	49.86	775.19	0.00	774.69	0.25	0.50	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
23	P(119)	52.12	775.96	0.00	775.44	0.25	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
24	P(120)	5.00	776.01	0.00	775.96	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
25	P(121)	5.00	775.49	0.00	775.44	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
26	P(122)	5.00	774.99	0.00	774.94	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
27	P(123)	120.37	775.70	0.00	774.50	2.65	1.20	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
28	P(124)	49.86	776.45	0.00	775.95	0.25	0.50	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
29	P(125)	52.12	777.22	0.00	776.70	0.25	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
30	P(126)	5.00	777.27	0.00	777.22	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
31	P(127)	5.00	776.75	0.00	776.70	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
32	P(128)	5.00	776.25	3.00	776.20	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
33	P(129)	115.56	776.16	0.00	775.00	2.08	1.16	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
34	P(130)	49.86	776.90	0.00	776.41	0.25	0.49	0.9800	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
35	P(131)	52.12	777.68	0.00	777.16	0.26	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
36	P(132)	5.00	777.73	0.00	777.68	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
37	P(133)	5.03	777.21	0.00	777.16	0.26	0.05	0.9900	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
38	P(134)	5.00	776.71	0.00	776.66	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
39	P(135)	113.42	776.63	0.00	775.50	2.03	1.13	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
40	P(136)	49.86	777.38	0.00	776.88	0.25	0.50	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
41	P(137)	52.12	778.15	0.00	777.63	0.25	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
42	P(138)	5.00	778.20	0.00	778.15	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
43	P(139)	5.00	777.68	0.00	777.63	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
44	P(140)	5.00	777.18	0.00	777.13	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
45	P(15)	58.56	770.00	0.00	768.50	0.50	1.50	2.5600	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
46	P(16)	123.16	769.37	0.00	769.06	0.00	0.31	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
47	P(16) (1)	226.84	769.94	0.00	769.37	0.00	0.57	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
48	P(17)	110.00	770.21	0.00	769.94	0.00	0.27	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
49	P(18)	110.00	770.99	0.00	770.21	0.00	0.78	0.7100	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
50	P(19)	110.00	771.26	0.00	770.99	0.00	0.27	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
51	P(20)	110.00	771.54	0.00	771.26	0.00	0.28	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
52	P(23)	192.59	773.77	0.00	773.29	0.50	0.48	0.2500	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
53	P(24)	110.00	774.05	0.00	773.77	0.00	0.28	0.2500	CIRCULAR	24.000	24.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
54	P(25)	110.00	774.32	0.00	774.05	0.00	0.27	0.2500	CIRCULAR	24.000	24.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
55	P(26)	110.00	774.60	0.00	774.32	0.00	0.28	0.2500	CIRCULAR	24.000	24.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
56	P(27)	121.80	775.71	0.00	775.10	0.50	0.61	0.5000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
57	P(28)	110.16	776.26	0.00	775.71	0.00	0.55	0.5000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
58	P(29)	113.60	777.89	0.00	776.76	0.50	1.13	0.9900	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
59	P(30)	144.00	779.33	0.00	777.89	0.00	1.44	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
60	P(31)	58.17	768.65	0.00	768.50	0.50	0.15	0.2600	CIRCULAR	48.000	48.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
61	P(32)	30.00	768.72	0.00	768.65	0.00	0.07	0.2300	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
62	P(33)	191.79	769.20	0.00	768.72	0.00	0.48	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
63	P(34)	110.00	769.47	0.00	769.20	0.00	0.27	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
64	P(35)	110.00	769.75	0.00	769.47	0.00	0.28	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
65	P(36)	110.00	770.02	0.00	769.75	0.00	0.27	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
66	P(37)	110.00	770.30	0.00	770.02	0.00	0.28	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
67	P(38)	110.00	770.57	0.00	770.30	0.00	0.27	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
68	P(39)	50.09	771.20	0.00	771.07	0.50	0.13	0.2600	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
69	P(39) (1)	84.79	771.41	0.00	771.20	0.00	0.21	0.2500	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
70	P(40)	30.63	771.49	0.00	771.41	0.00	0.08	0.2600	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
71	P(41)	145.53	771.85	0.00	771.49	0.00	0.36	0.2500	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
72	P(42)	115.67	772.14	0.00	771.85	0.00	0.29	0.2500	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
73	P(43)	110.00	772.92	0.00	772.64	0.50	0.28	0.2500	CIRCULAR	24.000	24.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
74	P(44)	110.00	773.19	0.00	772.92	0.00	0.27	0.2500	CIRCULAR	24.000	24.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
75	P(45)	110.00	773.47	0.00	773.19	0.00	0.28	0.2500	CIRCULAR	24.000	24.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
76	P(46)	110.00	773.74	0.00	773.47	0.00	0.27	0.2500	CIRCULAR	24.000	24.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
77	P(47)	55.00	773.88	0.00	773.74	0.00	0.14	0.2500	CIRCULAR	24.000	24.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
78	P(48)	255.74	775.52	0.00	774.88	1.00	0.64	0.2500	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
79	P(49)	100.80	771.79	0.00	771.54	0.00	0.25	0.2500	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
80	P(50)	152.05	772.17	0.00	771.79	0.00	0.38	0.2500	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
81	P(51)	108.00	776.89	0.00	775.81	3.64	1.08	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
82	P(53)	70.60	772.52	0.00	772.34	0.00	0.18	0.2500	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1

Pipe Input

SN	Element ID	Length (ft)	Inlet Invert Elevation (ft)	Inlet Invert Offset (ft)	Outlet Invert Elevation (ft)	Outlet Invert Offset (ft)	Total Drop (ft)	Average Slope (%)	Pipe Shape	Pipe Diameter or Height (in)	Pipe Width (in)	Manning's Roughness	Entrance Losses	Exit/Bend Losses	Additional Losses	Initial Flow (cfs)	Flap Gate	No. of Barrels
83	P(54)	117.00	778.47	0.00	777.30	4.96	1.17	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
84	P(55)	163.40	778.29	0.00	776.65	5.16	1.64	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
85	P(56)	161.45	774.93	0.00	773.31	1.90	1.62	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
86	P(57)	76.76	775.70	0.00	774.93	0.00	0.77	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
87	P(58)	13.14	776.08	0.00	775.95	0.25	0.13	0.9900	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
88	P(59)	29.92	776.63	0.00	776.33	0.25	0.30	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
89	P(60)	13.28	776.82	0.00	776.63	0.00	0.19	1.4300	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
90	P(61)	52.97	768.63	0.00	768.50	0.50	0.13	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
91	P(62)	82.14	768.83	-0.01	768.63	0.00	0.20	0.2400	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
92	P(63)	90.00	769.05	-0.01	768.83	-0.01	0.22	0.2400	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
93	P(64)	108.60	772.79	0.00	772.52	0.00	0.27	0.2500	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
94	P(65)	67.82	778.32	0.00	777.64	5.47	0.68	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
95	P(66)	82.14	777.35	0.00	775.71	7.08	1.64	2.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
96	P(67)	46.08	773.84	-2.00	772.92	4.20	0.92	2.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
97	P(68)	69.52	772.34	0.00	772.17	0.00	0.17	0.2400	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
98	P(69)	127.13	774.27	0.00	773.00	3.06	1.27	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
99	P(70)	52.12	775.04	0.00	774.52	0.25	0.52	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
100	P(71)	49.86	775.79	0.00	775.29	0.25	0.50	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
101	P(72)	5.00	775.84	0.00	775.79	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
102	P(73)	5.00	775.34	0.00	775.29	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
103	P(74)	5.00	775.82	0.00	775.77	1.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
104	P(75)	126.56	774.77	0.00	773.50	3.29	1.27	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
105	P(76)	49.86	775.51	0.00	775.02	0.25	0.49	0.9800	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
106	P(77)	52.12	776.29	0.00	775.77	0.26	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
107	P(78)	5.00	776.34	0.00	776.29	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
108	P(79)	5.00	775.82	0.00	775.77	0.26	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
109	P(80)	5.00	775.32	0.00	775.27	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
110	P(81)	125.15	775.25	0.00	774.00	2.74	1.25	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
111	P(82)	49.86	776.00	0.00	775.50	0.25	0.50	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
112	P(83)	52.12	776.77	0.00	776.25	0.25	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
113	P(84)	5.00	776.82	0.00	776.77	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
114	P(85)	5.00	776.30	0.00	776.25	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
115	P(86)	5.00	775.80	0.00	775.75	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
116	P(87)	92.04	776.42	0.00	775.50	2.71	0.92	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
117	P(88)	49.86	777.17	0.00	776.67	0.25	0.50	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
118	P(89)	52.12	777.94	0.00	777.42	0.25	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
119	P(90)	5.00	777.99	0.00	777.94	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
120	P(91)	5.00	777.47	0.00	777.42	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
121	P(92)	5.00	776.97	0.00	776.92	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
122	P(93)	154.50	775.82	0.00	774.27	0.50	1.55	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
123	P(94)	49.86	776.57	0.00	776.07	0.25	0.50	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
124	P(95)	52.12	777.34	0.00	776.82	0.25	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
125	P(96)	5.00	777.39	0.00	777.34	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
126	P(97)	5.00	776.87	0.00	776.82	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
127	P(98)	5.00	776.37	0.00	776.32	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
128	P(99)	137.40	776.20	0.00	774.82	0.50	1.38	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1

Pipe Results

SN	Element ID	Peak Flow (cfs)	Time of Peak Flow Occurrence (days hh:mm)	Design Flow Capacity (cfs)	Peak Flow/ Design Flow Ratio	Peak Flow Velocity (ft/sec)	Travel Time (min)	Peak Flow Depth (ft)	Peak Flow Depth/ Total Depth Ratio	Total Time Surcharged (min)	Froude Number	Reported Condition
1	Link-01	35.58	0 08:14	7.57	4.70	50.00	0.02	1.00	1.00	2.00		SURCHARGED
2	Link-02	24.34	0 04:45	2.18	11.19	50.00	0.01	1.00	1.00	981.00		SURCHARGED
3	Link-03	20.38	0 12:30	19.58	1.04	6.82	0.13	1.81	0.90	0.00		> CAPACITY
4	P(100)	3.82	0 11:55	7.01	0.55	3.27	0.25	1.19	0.95	0.00		Calculated
5	P(101)	2.04	0 11:55	3.86	0.53	2.92	0.30	0.94	0.94	0.00		Calculated
6	P(102)	2.05	0 11:55	3.86	0.53	2.65	0.03	0.96	0.96	0.00		Calculated
7	P(103)	1.81	0 11:55	3.86	0.47	2.78	0.03	0.98	0.98	0.00		Calculated
8	P(104)	2.06	0 11:57	3.86	0.53	2.94	0.03	0.96	0.96	0.00		Calculated
9	P(105)	5.87	0 12:00	11.38	0.52	4.26	0.35	1.09	0.73	0.00		Calculated
10	P(106)	3.82	0 11:57	7.01	0.55	3.18	0.26	1.19	0.95	0.00		Calculated
11	P(107)	2.04	0 11:57	3.86	0.53	2.74	0.32	0.94	0.94	0.00		Calculated
12	P(108)	2.05	0 11:57	3.86	0.53	2.65	0.03	0.96	0.96	0.00		Calculated
13	P(109)	1.99	0 11:56	3.86	0.52	2.87	0.03	0.98	0.98	0.00		Calculated
14	P(110)	2.29	0 11:51	3.86	0.59	3.15	0.03	0.96	0.96	0.00		Calculated
15	P(111)	5.83	0 12:00	11.38	0.51	4.25	0.36	1.09	0.72	0.00		Calculated
16	P(112)	3.74	0 12:00	7.01	0.53	3.13	0.27	1.17	0.94	0.00		Calculated
17	P(113)	1.87	0 12:00	3.86	0.49	2.79	0.31	0.90	0.90	0.00		Calculated
18	P(114)	1.88	0 12:00	3.86	0.49	2.51	0.03	0.90	0.91	0.00		Calculated
19	P(115)	1.88	0 12:00	3.86	0.49	2.82	0.03	0.96	0.96	0.00		Calculated
20	P(116)	2.29	0 11:57	3.86	0.59	3.06	0.03	0.96	0.96	0.00		Calculated
21	P(117)	5.87	0 12:01	11.38	0.52	4.26	0.37	1.09	0.73	0.00		Calculated
22	P(118)	3.82	0 11:55	7.01	0.55	3.27	0.25	1.19	0.95	0.00		Calculated
23	P(119)	2.04	0 11:55	3.86	0.53	2.92	0.30	0.94	0.94	0.00		Calculated
24	P(120)	2.05	0 11:55	3.86	0.53	2.65	0.03	0.96	0.96	0.00		Calculated
25	P(121)	1.81	0 11:55	3.86	0.47	2.78	0.03	0.98	0.98	0.00		Calculated
26	P(122)	2.07	0 11:57	3.86	0.54	2.94	0.03	0.96	0.96	0.00		Calculated
27	P(123)	5.87	0 12:02	11.36	0.52	4.26	0.47	1.09	0.73	0.00		Calculated
28	P(124)	3.82	0 11:57	7.01	0.55	3.18	0.26	1.19	0.95	0.00		Calculated
29	P(125)	2.04	0 11:57	3.86	0.53	2.74	0.32	0.94	0.94	0.00		Calculated
30	P(126)	2.05	0 11:57	3.86	0.53	2.65	0.03	0.96	0.96	0.00		Calculated
31	P(127)	1.99	0 11:56	3.86	0.52	2.87	0.03	0.98	0.98	0.00		Calculated
32	P(128)	2.29	0 11:51	3.86	0.59	3.16	0.03	0.96	0.96	0.00		Calculated
33	P(129)	5.82	0 12:00	11.40	0.51	4.25	0.45	1.08	0.72	0.00		Calculated
34	P(130)	3.74	0 12:00	6.94	0.54	3.13	0.27	1.17	0.94	0.00		Calculated
35	P(131)	1.87	0 12:00	3.86	0.49	2.80	0.31	0.90	0.90	0.00		Calculated
36	P(132)	1.88	0 12:00	3.86	0.49	2.51	0.03	0.90	0.91	0.00		Calculated
37	P(133)	1.88	0 12:00	3.85	0.49	2.82	0.03	0.95	0.95	0.00		Calculated
38	P(134)	2.29	0 11:57	3.86	0.59	3.06	0.03	0.96	0.96	0.00		Calculated
39	P(135)	5.87	0 12:01	11.36	0.52	4.26	0.44	1.09	0.73	0.00		Calculated
40	P(136)	3.82	0 11:55	7.01	0.55	3.28	0.25	1.19	0.95	0.00		Calculated
41	P(137)	2.04	0 11:55	3.86	0.53	2.92	0.30	0.94	0.94	0.00		Calculated
42	P(138)	2.05	0 11:55	3.86	0.53	2.65	0.03	0.96	0.96	0.00		Calculated
43	P(139)	1.81	0 11:55	3.86	0.47	2.78	0.03	0.98	0.98	0.00		Calculated
44	P(140)	2.07	0 11:57	3.86	0.54	2.94	0.03	0.96	0.96	0.00		Calculated
45	P(15)	3.20	0 11:57	6.18	0.52	4.08	0.24	1.00	1.00	126.00		SURCHARGED
46	P(16)	30.07	0 11:57	36.25	0.83	4.25	0.48	3.00	1.00	24.00		SURCHARGED
47	P(16) (1)	30.09	0 11:53	36.22	0.83	4.26	0.89	3.00	1.00	23.00		SURCHARGED
48	P(17)	25.39	0 12:11	35.80	0.71	3.59	0.51	3.00	1.00	23.00		SURCHARGED
49	P(18)	22.70	0 12:11	60.85	0.37	3.37	0.54	3.00	1.00	18.00		SURCHARGED
50	P(19)	26.65	0 12:00	35.80	0.74	3.77	0.49	3.00	1.00	17.00		SURCHARGED
51	P(20)	20.46	0 12:09	36.46	0.56	3.11	0.59	3.00	1.00	15.00		SURCHARGED
52	P(23)	13.05	0 12:14	22.18	0.59	3.83	0.84	2.50	1.00	17.00		SURCHARGED
53	P(24)	10.57	0 12:15	12.36	0.86	3.38	0.54	2.00	1.00	22.00		SURCHARGED
54	P(25)	8.12	0 11:53	12.14	0.67	2.74	0.67	2.00	1.00	22.00		SURCHARGED
55	P(26)	8.52	0 12:03	12.36	0.69	2.71	0.68	2.00	1.00	17.00		SURCHARGED
56	P(27)	3.56	0 12:00	8.05	0.44	2.91	0.70	1.27	0.85	0.00		Calculated
57	P(28)	2.66	0 12:00	8.04	0.33	2.46	0.75	0.96	0.64	0.00		Calculated
58	P(29)	2.29	0 11:55	3.85	0.59	3.49	0.54	0.78	0.78	0.00		Calculated
59	P(30)	1.61	0 12:00	3.86	0.42	2.16	1.11	0.90	0.90	0.00		Calculated
60	P(31)	38.16	0 12:02	79.02	0.48	5.13	0.19	2.73	0.68	0.00		Calculated
61	P(32)	37.13	0 12:02	34.90	1.06	5.38	0.09	2.83	0.95	0.00		> CAPACITY
62	P(33)	35.90	0 12:03	36.15	0.99	5.08	0.63	3.00	1.00	17.00		SURCHARGED
63	P(34)	27.89	0 12:10	35.80	0.78	3.95	0.46	3.00	1.00	27.00		SURCHARGED
64	P(35)	25.82	0 11:53	36.46	0.71	3.65	0.50	3.00	1.00	29.00		SURCHARGED
65	P(36)	22.76	0 12:17	35.80	0.64	3.22	0.57	3.00	1.00	29.00		SURCHARGED
66	P(37)	24.12	0 11:49	36.46	0.66	3.41	0.54	3.00	1.00	28.00		SURCHARGED
67	P(38)	19.29	0 11:49	35.80	0.54	2.84	0.65	3.00	1.00	24.00		SURCHARGED
68	P(39)	21.43	0 12:00	22.64	0.95	4.37	0.19	2.50	1.00	24.00		SURCHARGED
69	P(39) (1)	19.25	0 12:00	22.11	0.87	3.92	0.36	2.50	1.00	27.00		SURCHARGED
70	P(40)	16.04	0 11:48	22.71	0.71	3.27	0.16	2.50	1.00	28.00		SURCHARGED
71	P(41)	15.64	0 11:48	22.10	0.71	3.19	0.76	2.50	1.00	28.00		SURCHARGED
72	P(42)	11.26	0 12:15	22.25	0.51	2.36	0.82	2.50	1.00	26.00		SURCHARGED
73	P(43)	16.34	0 12:00	12.36	1.32	5.20	0.35	2.00	1.00	26.00		SURCHARGED
74	P(44)	9.68	0 12:10	12.14	0.80	3.08	0.60	2.00	1.00	27.00		SURCHARGED
75	P(45)	9.83	0 11:52	12.36	0.80	3.13	0.59	2.00	1.00	23.00		SURCHARGED
76	P(46)	4.44	0 12:02	12.14	0.37	1.63	1.12	2.00	1.00	18.00		SURCHARGED
77	P(47)	6.48	0 12:00	12.36	0.52	2.07	0.44	1.98	0.99	0.00		Calculated
78	P(48)	1.95	0 12:01	1.93	1.01	2.50	1.70	0.96	0.98	0.00		> CAPACITY
79	P(49)	23.00	0 12:00	22.13	1.04	4.69	0.36	2.50	1.00	22.00		SURCHARGED
80	P(50)	21.88	0 12:00	22.21	0.98	4.46	0.57	2.50	1.00	22.00		SURCHARGED
81	P(51)	1.23	0 12:00	11.38	0.11	3.20	0.56	0.40	0.27	0.00		Calculated

Pipe Results

SN	Element ID	Peak Flow (cfs)	Time of Peak Flow Occurrence (days hh:mm)	Design Flow Capacity (cfs)	Peak Flow/ Design Flow Ratio	Peak Flow Velocity (ft/sec)	Travel Time (min)	Peak Flow Depth (ft)	Peak Flow Depth/ Total Depth Ratio	Total Time Surcharged (min)	Froude Number	Reported Condition
82	P(53)	16.75	0 12:07	22.44	0.75	3.41	0.35	2.50	1.00	24.00		SURCHARGED
83	P(54)	1.01	0 12:00	3.86	0.26	2.94	0.66	0.47	0.47	0.00		Calculated
84	P(55)	1.37	0 12:00	3.87	0.35	2.99	0.91	0.55	0.57	0.00		Calculated
85	P(56)	5.89	0 12:00	11.40	0.52	3.76	0.72	1.24	0.83	0.00		Calculated
86	P(57)	4.54	0 12:00	11.40	0.40	2.77	0.46	1.31	0.88	0.00		Calculated
87	P(58)	3.32	0 12:00	6.96	0.48	3.26	0.07	1.03	0.83	0.00		Calculated
88	P(59)	2.20	0 12:00	3.86	0.57	2.94	0.17	0.91	0.92	0.00		Calculated
89	P(60)	1.25	0 12:00	4.62	0.27	1.68	0.13	0.89	0.90	0.00		Calculated
90	P(61)	34.59	0 12:00	35.79	0.97	5.62	0.16	2.76	0.92	0.00		Calculated
91	P(62)	32.22	0 12:00	36.53	0.88	4.57	0.30	2.97	0.99	0.00		Calculated
92	P(63)	31.06	0 11:59	35.72	0.87	4.39	0.34	3.00	1.00	20.00		SURCHARGED
93	P(64)	16.55	0 12:07	22.16	0.75	3.37	0.54	2.50	1.00	24.00		SURCHARGED
94	P(65)	1.57	0 12:00	3.86	0.41	3.09	0.37	0.61	0.61	0.00		Calculated
95	P(66)	1.76	0 12:00	5.45	0.32	3.49	0.39	0.61	0.61	0.00		Calculated
96	P(67)	0.58	0 12:00	9.72	0.06	3.58	0.21	0.26	0.26	0.00		Calculated
97	P(68)	18.06	0 12:05	21.97	0.82	3.68	0.31	2.50	1.00	23.00		SURCHARGED
98	P(69)	6.11	0 12:01	11.37	0.54	4.31	0.49	1.12	0.75	0.00		Calculated
99	P(70)	3.82	0 11:55	6.99	0.55	3.28	0.26	1.21	0.97	0.00		Calculated
100	P(71)	2.04	0 11:50	3.87	0.53	2.94	0.28	0.94	0.94	0.00		Calculated
101	P(72)	2.05	0 11:50	3.86	0.53	2.65	0.03	0.96	0.96	0.00		Calculated
102	P(73)	1.80	0 11:55	3.86	0.47	2.66	0.03	0.98	0.98	0.00		Calculated
103	P(74)	2.29	0 11:59	3.86	0.59	3.49	0.02	0.78	0.78	0.00		Calculated
104	P(75)	5.71	0 12:00	11.40	0.50	4.21	0.50	1.07	0.72	0.00		Calculated
105	P(76)	3.56	0 12:00	6.94	0.51	3.11	0.27	1.15	0.93	0.00		Calculated
106	P(77)	1.72	0 12:00	3.86	0.45	2.77	0.31	0.86	0.86	0.00		Calculated
107	P(78)	1.71	0 12:00	3.86	0.44	2.39	0.03	0.86	0.86	0.00		Calculated
108	P(79)	1.88	0 12:00	3.86	0.49	2.85	0.03	0.92	0.92	0.00		Calculated
109	P(80)	2.29	0 11:57	3.86	0.59	3.10	0.03	0.95	0.96	0.00		Calculated
110	P(81)	5.87	0 12:02	11.37	0.52	4.26	0.49	1.09	0.73	0.00		Calculated
111	P(82)	3.82	0 11:55	7.01	0.55	3.28	0.25	1.19	0.95	0.00		Calculated
112	P(83)	2.04	0 11:55	3.86	0.53	2.92	0.30	0.94	0.94	0.00		Calculated
113	P(84)	2.05	0 11:55	3.86	0.53	2.65	0.03	0.96	0.96	0.00		Calculated
114	P(85)	1.81	0 11:55	3.86	0.47	2.78	0.03	0.98	0.98	0.00		Calculated
115	P(86)	2.07	0 11:57	3.86	0.54	2.94	0.03	0.96	0.96	0.00		Calculated
116	P(87)	5.87	0 11:58	11.38	0.52	4.22	0.36	1.30	0.87	0.00		Calculated
117	P(88)	3.82	0 11:57	7.01	0.55	3.18	0.26	1.19	0.95	0.00		Calculated
118	P(89)	2.04	0 11:57	3.86	0.53	2.74	0.32	0.94	0.94	0.00		Calculated
119	P(90)	2.05	0 11:57	3.86	0.53	2.65	0.03	0.96	0.96	0.00		Calculated
120	P(91)	1.99	0 11:56	3.86	0.52	2.87	0.03	0.98	0.98	0.00		Calculated
121	P(92)	2.29	0 11:51	3.86	0.59	3.15	0.03	0.96	0.96	0.00		Calculated
122	P(93)	5.56	0 11:59	11.40	0.49	3.19	0.81	1.47	0.99	0.00		Calculated
123	P(94)	3.74	0 12:00	7.01	0.53	3.11	0.27	1.19	0.96	0.00		Calculated
124	P(95)	1.87	0 12:00	3.86	0.49	2.79	0.31	0.90	0.90	0.00		Calculated
125	P(96)	1.88	0 12:00	3.86	0.49	2.51	0.03	0.90	0.91	0.00		Calculated
126	P(97)	1.88	0 12:00	3.86	0.49	2.82	0.03	0.96	0.96	0.00		Calculated
127	P(98)	2.29	0 11:57	3.86	0.59	3.05	0.03	0.97	0.98	0.00		Calculated
128	P(99)	5.87	0 11:59	11.40	0.52	3.45	0.66	1.46	0.97	0.00		Calculated

Storage Nodes

Storage Node : POND

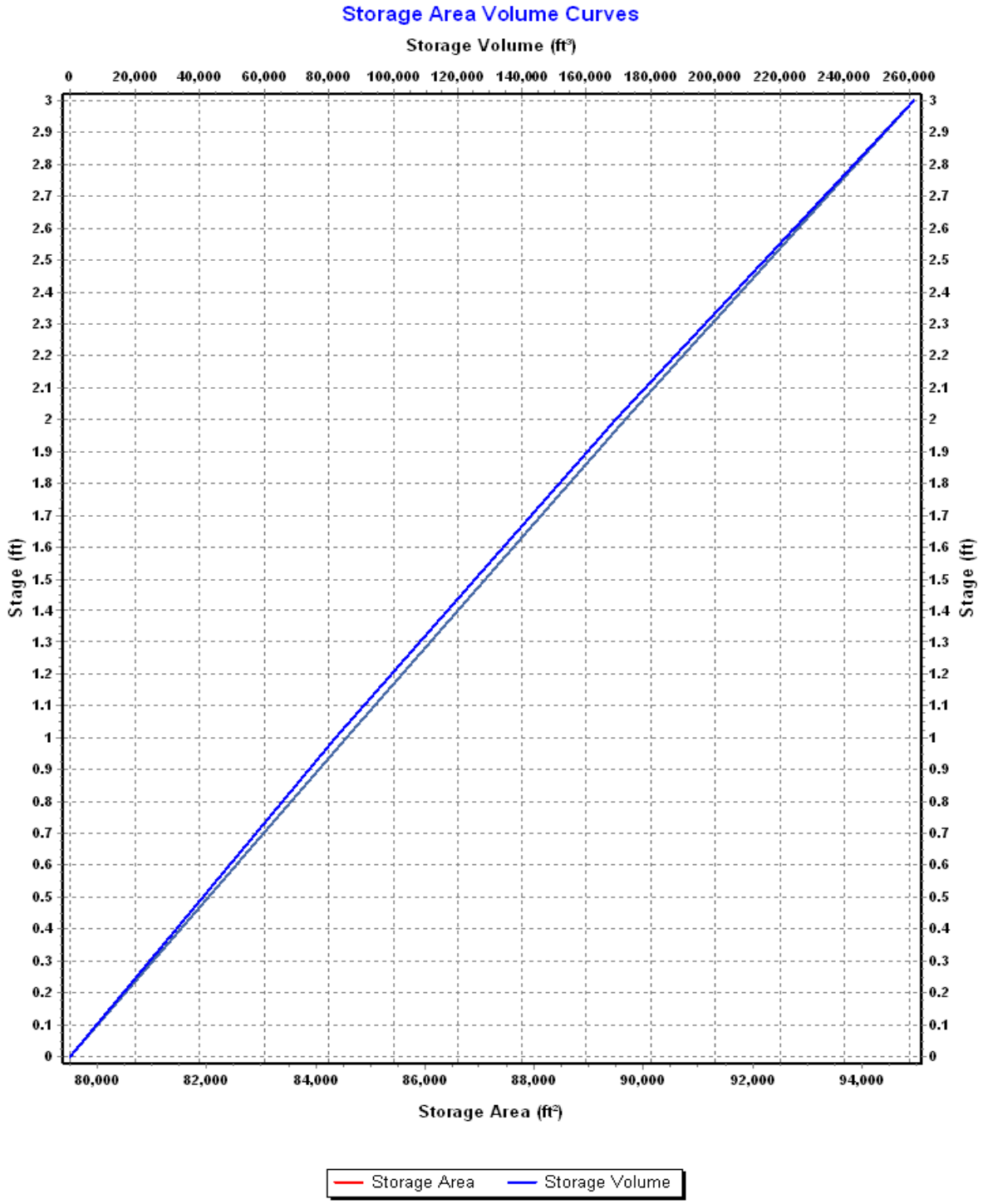
Input Data

Invert Elevation (ft) 768.00
Max (Rim) Elevation (ft) 772.00
Max (Rim) Offset (ft) 4.00
Initial Water Elevation (ft) 768.00
Initial Water Depth (ft) 0.00
Ponded Area (ft²) 100290.00
Evaporation Loss 0.00

Storage Area Volume Curves

Storage Curve : Storage-POND

Stage (ft)	Storage Area (ft²)	Storage Volume (ft³)
0	79508	0.000
1	84543	82025.50
2	89680	169137.00
3	94939	261446.50


Storage Area Volume Curves
Storage Volume (ft³)
0
20,000
40,000
60,000
80,000
100,000
120,000
140,000
160,000
180,000
200,000
220,000
240,000
260,000
Stage (ft)
3
2.9
2.8
2.7
2.6
2.5
2.4
2.3
2.2
2.1
2
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
80,000
82,000
84,000
86,000
88,000
90,000
92,000
94,000
Storage Area (ft²)
Storage Area
Storage Volume

Storage Node : POND (continued)

Outflow Weirs

SN	Element ID	Weir Type	Flap Gate	Crest Elevation (ft)	Crest Offset (ft)	Length (ft)	Weir Total Height (ft)	Discharge Coefficient
1	Weir-RIM	Rectangular	No	770.50	2.50	8.00	1.00	3.33
2	Weir-Spillway	Rectangular	No	771.25	3.25	20.00	0.60	3.33

Outflow Orifices

SN	Element ID	Orifice Type	Orifice Shape	Flap Gate	Circular Orifice Diameter (in)	Rectangular Orifice Height (in)	Rectangular Orifice Width (in)	Orifice Invert Elevation (ft)	Orifice Coefficient
1	Orifice-WQv	Side	CIRCULAR	No	6.10			768.00	0.61

Output Summary Results

Peak Inflow (cfs) 85.91
Peak Lateral Inflow (cfs) 5.92
Peak Outflow (cfs) 22.51
Peak Exfiltration Flow Rate (cfm) 0.00
Max HGL Elevation Attained (ft) 771.29
Max HGL Depth Attained (ft) 3.29
Average HGL Elevation Attained (ft) 770.31
Average HGL Depth Attained (ft) 2.31
Time of Max HGL Occurrence (days hh:mm) 0 12:30
Total Exfiltration Volume (1000-ft³) 0.000
Total Flooded Volume (ac-in) 0
Total Time Flooded (min) 0
Total Retention Time (sec) 0.00

Project Description

File Name ..... 2015-10-21_DESIGN.SPF

Project Options

Flow Units ..... CFS
Elevation Type ..... Elevation
Hydrology Method ..... SCS TR-55
Time of Concentration (TOC) Method ..... SCS TR-55
Link Routing Method ..... Hydrodynamic
Enable Overflow Ponding at Nodes ..... YES
Skip Steady State Analysis Time Periods ..... NO

Analysis Options

Start Analysis On ..... Sep 27, 2015 00:00:00
End Analysis On ..... Sep 28, 2015 00:00:00
Start Reporting On ..... Sep 27, 2015 00:00:00
Antecedent Dry Days ..... 0 days
Runoff (Dry Weather) Time Step ..... 0 01:00:00 days hh:mm:ss
Runoff (Wet Weather) Time Step ..... 0 00:05:00 days hh:mm:ss
Reporting Time Step ..... 0 00:05:00 days hh:mm:ss
Routing Time Step ..... 30 seconds

Number of Elements

	Qty
Rain Gages	1
Subbasins	91
Nodes	130
Junctions	128
Outfalls	1
Flow Diversions	0
Inlets	0
Storage Nodes	1
Links	131
Channels	0
Pipes	128
Pumps	0
Orifices	1
Weirs	2
Outlets	0
Pollutants	0
Land Uses	0

Rainfall Details

SN	Rain Gage ID	Data Source	Data Source ID	Rainfall Type	Rain Units	State	County	Return Period (years)	Rainfall Depth (inches)	Rainfall Distribution
1	Rain Gage-01	Time Series	TS-100	Cumulative	inches	Ohio	Franklin	100	5.60	SCS Type II 24-hr

Subbasin Summary

SN	Subbasin ID	Area (ac)	Weighted Curve Number	Total Rainfall (in)	Total Runoff (in)	Total Runoff Volume (ac-in)	Peak Runoff (cfs)	Time of Concentration (days hh:mm:ss)
1	Sub-D04	0.10	98.00	5.60	5.36	0.54	0.75	0 00:05:00
2	Sub-D05	0.18	98.00	5.60	5.36	0.97	1.32	0 00:05:00
3	Sub-D06	0.17	98.00	5.60	5.36	0.91	1.27	0 00:05:00
4	Sub-D08	0.41	98.00	5.60	5.36	2.20	3.01	0 00:05:00
5	Sub-D09	0.33	98.00	5.60	5.36	1.77	2.45	0 00:05:00
6	Sub-D10	0.33	98.00	5.60	5.36	1.77	2.45	0 00:05:00
7	Sub-D11	0.33	98.00	5.60	5.36	1.77	2.45	0 00:05:00
8	Sub-D12	0.22	98.00	5.60	5.36	1.18	1.60	0 00:05:00
9	Sub-D13	0.18	98.00	5.60	5.36	0.97	1.32	0 00:05:00
10	Sub-D14	0.22	98.00	5.60	5.36	1.18	1.60	0 00:05:00
11	Sub-D15	0.12	98.00	5.60	5.36	0.64	0.89	0 00:05:00
12	Sub-D16	0.06	98.00	5.60	5.36	0.32	0.42	0 00:05:00
13	Sub-D17	0.16	98.00	5.60	5.36	0.86	1.18	0 00:05:00
14	Sub-D18	0.54	98.00	5.60	5.36	2.90	3.95	0 00:05:00
15	Sub-D19	0.33	98.00	5.60	5.36	1.77	2.45	0 00:05:00
16	Sub-D20	0.33	98.00	5.60	5.36	1.77	2.45	0 00:05:00
17	Sub-D21	0.54	98.00	5.60	5.36	2.90	3.95	0 00:05:00
18	Sub-D22	0.14	98.00	5.60	5.36	0.75	1.03	0 00:05:00
19	Sub-D23	0.06	98.00	5.60	5.36	0.32	0.42	0 00:05:00
20	Sub-D24	0.28	98.00	5.60	5.36	1.50	2.07	0 00:05:00
21	Sub-D25	0.25	98.00	5.60	5.36	1.34	1.83	0 00:05:00
22	Sub-D27	0.18	98.00	5.60	5.36	0.97	1.32	0 00:05:00
23	Sub-D28	0.13	98.00	5.60	5.36	0.70	0.94	0 00:05:00
24	Sub-D29	0.78	98.00	5.60	5.36	4.18	5.74	0 00:05:00
25	Sub-D30	0.48	98.00	5.60	5.36	2.57	3.53	0 00:05:00
26	Sub-D31	0.50	98.00	5.60	5.36	2.68	3.67	0 00:05:00
27	Sub-D32	0.52	98.00	5.60	5.36	2.79	3.81	0 00:05:00
28	Sub-D33	0.53	98.00	5.60	5.36	2.84	3.90	0 00:05:00
29	Sub-D34	0.56	98.00	5.60	5.36	3.00	4.14	0 00:05:00
30	Sub-D35	0.34	98.00	5.60	5.36	1.82	2.49	0 00:05:00
31	Sub-D36	0.11	98.00	5.60	5.36	0.59	0.80	0 00:05:00
32	Sub-D37	0.14	98.00	5.60	5.36	0.75	1.03	0 00:05:00
33	Sub-D38	0.77	98.00	5.60	5.36	4.13	5.64	0 00:05:00
34	Sub-D39	0.52	98.00	5.60	5.36	2.79	3.81	0 00:05:00
35	Sub-D40	0.52	98.00	5.60	5.36	2.79	3.81	0 00:05:00
36	Sub-D41	0.52	98.00	5.60	5.36	2.79	3.81	0 00:05:00
37	Sub-D42	0.51	98.00	5.60	5.36	2.73	3.76	0 00:05:00
38	Sub-D43	0.43	98.00	5.60	5.36	2.31	3.15	0 00:05:00
39	Sub-D44	0.70	98.00	5.60	5.36	3.75	5.13	0 00:05:00
40	Sub-D45	0.31	98.00	5.60	5.36	1.66	2.26	0 00:05:00
41	Sub-D46	0.21	98.00	5.60	5.36	1.13	1.55	0 00:05:00
42	Sub-D47	0.19	98.00	5.60	5.36	1.02	1.41	0 00:05:00
43	Sub-D48	0.17	98.00	5.60	5.36	0.91	1.27	0 00:05:00
44	Sub-D49	0.15	98.00	5.60	5.36	0.80	1.08	0 00:05:00
45	Sub-D50	0.19	98.00	5.60	5.36	1.02	1.41	0 00:05:00
46	Sub-D51	0.22	98.00	5.60	5.36	1.18	1.60	0 00:05:00
47	Sub-D52	0.16	98.00	5.60	5.36	0.86	1.18	0 00:05:00
48	Sub-D53	0.19	98.00	5.60	5.36	1.02	1.41	0 00:05:00
49	Sub-D54	0.27	98.00	5.60	5.36	1.45	1.98	0 00:05:00
50	Sub-D55	0.24	98.00	5.60	5.36	1.29	1.79	0 00:05:00
51	Sub-D56	0.09	98.00	5.60	5.36	0.48	0.66	0 00:05:00
52	Sub-D58	0.61	98.00	5.60	5.36	3.27	4.47	0 00:05:00
53	Sub-D60	0.60	98.00	5.60	5.36	3.22	4.42	0 00:05:00
54	Sub-D61	0.12	98.00	5.60	5.36	0.64	0.89	0 00:05:00
55	Sub-POND	1.29	80.00	5.60	3.42	4.41	7.00	0 00:05:00
56	Sub-RD01	0.68	98.00	5.60	5.36	3.65	4.98	0 00:05:00
57	Sub-RD02	0.42	98.00	5.60	5.36	2.25	3.10	0 00:05:00
58	Sub-RD03	0.38	98.00	5.60	5.36	2.04	2.77	0 00:05:00
59	Sub-RD04	0.42	98.00	5.60	5.36	2.25	3.10	0 00:05:00
60	Sub-RD05	0.29	98.00	5.60	5.36	1.55	2.12	0 00:05:00
61	Sub-RD06	0.26	98.00	5.60	5.36	1.39	1.93	0 00:05:00
62	Sub-RD07	0.37	98.00	5.60	5.36	1.98	2.73	0 00:05:00
63	Sub-RD08	0.40	98.00	5.60	5.36	2.14	2.96	0 00:05:00
64	Sub-RD09	0.47	98.00	5.60	5.36	2.52	3.43	0 00:05:00
65	Sub-RD10	0.47	98.00	5.60	5.36	2.52	3.43	0 00:05:00
66	Sub-RD11	0.40	98.00	5.60	5.36	2.14	2.96	0 00:05:00
67	Sub-RD12	0.37	98.00	5.60	5.36	1.98	2.73	0 00:05:00
68	Sub-RD13	0.29	98.00	5.60	5.36	1.55	2.12	0 00:05:00
69	Sub-RD14	0.29	98.00	5.60	5.36	1.55	2.12	0 00:05:00
70	Sub-RD15	0.42	98.00	5.60	5.36	2.25	3.10	0 00:05:00
71	Sub-RD16	0.38	98.00	5.60	5.36	2.04	2.77	0 00:05:00
72	Sub-RD17	0.42	98.00	5.60	5.36	2.25	3.10	0 00:05:00
73	Sub-RD18	0.68	98.00	5.60	5.36	3.65	4.98	0 00:05:00
74	Sub-RD19	0.68	98.00	5.60	5.36	3.65	4.98	0 00:05:00
75	Sub-RD20	0.42	98.00	5.60	5.36	2.25	3.10	0 00:05:00
76	Sub-RD21	0.38	98.00	5.60	5.36	2.04	2.77	0 00:05:00
77	Sub-RD22	0.42	98.00	5.60	5.36	2.25	3.10	0 00:05:00
78	Sub-RD23	0.29	98.00	5.60	5.36	1.55	2.12	0 00:05:00
79	Sub-RD24	0.29	98.00	5.60	5.36	1.55	2.12	0 00:05:00
80	Sub-RD25	0.37	98.00	5.60	5.36	1.98	2.73	0 00:05:00
81	Sub-RD26	0.40	98.00	5.60	5.36	2.14	2.96	0 00:05:00
82	Sub-RD27	0.47	98.00	5.60	5.36	2.52	3.43	0 00:05:00

Subbasin Summary

SN	Subbasin ID	Area (ac)	Weighted Curve Number	Total Rainfall (in)	Total Runoff (in)	Total Runoff Volume (ac-in)	Peak Runoff (cfs)	Time of Concentration (days hh:mm:ss)
83	Sub-RD29	0.47	98.00	5.60	5.36	2.52	3.43	0 00:05:00
84	Sub-RD30	0.40	98.00	5.60	5.36	2.14	2.96	0 00:05:00
85	Sub-RD31	0.37	98.00	5.60	5.36	1.98	2.73	0 00:05:00
86	Sub-RD32	0.29	98.00	5.60	5.36	1.55	2.12	0 00:05:00
87	Sub-RD33	0.29	98.00	5.60	5.36	1.55	2.12	0 00:05:00
88	Sub-RD34	0.42	98.00	5.60	5.36	2.25	3.10	0 00:05:00
89	Sub-RD35	0.38	98.00	5.60	5.36	2.04	2.77	0 00:05:00
90	Sub-RD36	0.42	98.00	5.60	5.36	2.25	3.10	0 00:05:00
91	Sub-RD37	0.68	98.00	5.60	5.36	3.65	4.98	0 00:05:00

Node Summary

SN	Element ID	Element Type	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Initial Water Elevation (ft)	Surcharge Elevation (ft)	Ponded Area (ft²)	Peak Inflow (cfs)	Max HGL Elevation Attained (ft)	Max Surcharge Depth Attained (ft)	Min Freeboard Attained (ft)	Time of Peak Flooding Occurrence (days hh:mm)	Total Flooded Volume (ac-in)	Total Time Flooded (min)
1	(100)	Junction	776.42	772.06	776.42	772.06	0.00	5.88	777.84	0.00	0.08	0 00:00	0.00	0.00
2	(101)	Junction	777.17	772.54	777.17	772.54	0.00	3.84	778.38	0.00	0.04	0 00:00	0.00	0.00
3	(102)	Junction	777.94	773.05	777.94	773.05	0.00	2.05	778.86	0.00	0.08	0 00:00	0.00	0.00
4	(106)	Junction	775.82	771.46	775.82	771.46	0.00	5.73	777.32	0.00	0.00	0 12:02	0.00	2.00
5	(107)	Junction	776.57	771.94	776.57	771.94	0.00	3.84	777.78	0.00	0.04	0 00:00	0.00	0.00
6	(108)	Junction	777.34	772.44	777.34	772.44	0.00	2.05	778.26	0.00	0.08	0 00:00	0.00	0.00
7	(112)	Junction	776.20	771.84	776.20	771.84	0.00	5.89	777.62	0.00	0.08	0 00:00	0.00	0.00
8	(113)	Junction	776.95	772.32	776.95	772.32	0.00	3.84	778.16	0.00	0.04	0 00:00	0.00	0.00
9	(114)	Junction	777.72	772.82	777.72	772.82	0.00	2.05	778.64	0.00	0.08	0 00:00	0.00	0.00
10	(119)	Junction	774.40	770.04	774.40	770.04	0.00	5.88	775.82	0.00	0.08	0 00:00	0.00	0.00
11	(120)	Junction	775.15	770.52	775.15	770.52	0.00	3.84	776.36	0.00	0.04	0 00:00	0.00	0.00
12	(121)	Junction	775.92	771.03	775.92	771.03	0.00	2.05	776.84	0.00	0.08	0 00:00	0.00	0.00
13	(125)	Junction	774.41	770.05	774.41	770.05	0.00	5.88	775.83	0.00	0.08	0 00:00	0.00	0.00
14	(126)	Junction	775.16	770.53	775.16	770.53	0.00	3.84	776.37	0.00	0.04	0 00:00	0.00	0.00
15	(127)	Junction	775.93	771.04	775.93	771.04	0.00	2.05	776.85	0.00	0.08	0 00:00	0.00	0.00
16	(131)	Junction	774.44	770.08	774.44	770.08	0.00	5.89	775.86	0.00	0.08	0 00:00	0.00	0.00
17	(132)	Junction	775.19	770.56	775.19	770.56	0.00	3.84	776.40	0.00	0.04	0 00:00	0.00	0.00
18	(133)	Junction	775.96	771.07	775.96	771.07	0.00	2.05	776.88	0.00	0.08	0 00:00	0.00	0.00
19	(137)	Junction	775.70	771.35	775.70	771.35	0.00	5.88	777.12	0.00	0.08	0 00:00	0.00	0.00
20	(138)	Junction	776.45	771.82	776.45	771.82	0.00	3.84	777.66	0.00	0.04	0 00:00	0.00	0.00
21	(139)	Junction	777.22	772.33	777.22	772.33	0.00	2.05	778.14	0.00	0.08	0 00:00	0.00	0.00
22	(143)	Junction	776.16	771.80	776.16	771.80	0.00	5.89	777.58	0.00	0.08	0 00:00	0.00	0.00
23	(144)	Junction	776.90	772.28	776.90	772.28	0.00	3.86	778.11	0.00	0.05	0 00:00	0.00	0.00
24	(145)	Junction	777.68	772.78	777.68	772.78	0.00	2.05	778.60	0.00	0.08	0 00:00	0.00	0.00
25	(149)	Junction	776.63	772.28	776.63	772.28	0.00	5.89	778.05	0.00	0.08	0 00:00	0.00	0.00
26	(150)	Junction	777.38	772.75	777.38	772.75	0.00	3.84	778.59	0.00	0.04	0 00:00	0.00	0.00
27	(151)	Junction	778.15	773.26	778.15	773.26	0.00	2.05	779.07	0.00	0.08	0 00:00	0.00	0.00
28	(81)	Junction	774.27	770.95	774.27	770.95	0.00	6.11	775.73	0.00	1.04	0 00:00	0.00	0.00
29	(82)	Junction	775.04	770.41	775.04	770.41	0.00	3.84	776.25	0.00	0.04	0 00:00	0.00	0.00
30	(83)	Junction	775.79	770.90	775.79	770.90	0.00	2.05	776.71	0.00	0.08	0 00:00	0.00	0.00
31	(87)	Junction	774.77	770.41	774.77	770.41	0.00	5.87	776.19	0.00	0.08	0 00:00	0.00	0.00
32	(88)	Junction	775.51	770.89	775.51	770.89	0.00	3.82	776.71	0.00	0.06	0 00:00	0.00	0.00
33	(89)	Junction	776.29	771.39	776.29	771.39	0.00	1.92	777.18	0.00	0.11	0 00:00	0.00	0.00
34	(94)	Junction	775.25	770.90	775.25	770.90	0.00	5.90	776.67	0.00	0.08	0 00:00	0.00	0.00
35	(95)	Junction	776.00	771.37	776.00	771.37	0.00	3.84	777.21	0.00	0.04	0 00:00	0.00	0.00
36	(96)	Junction	776.77	771.88	776.77	771.88	0.00	2.05	777.69	0.00	0.08	0 00:00	0.00	0.00
37	D02	Junction	767.94	771.00	767.94	771.00	0.00	24.48	771.00	0.00	0.79	0 00:00	0.00	0.00
38	D04	Junction	768.63	774.75	768.63	774.75	0.00	35.01	771.60	0.00	5.11	0 00:00	0.00	0.00
39	D05	Junction	768.84	775.40	768.84	776.16	225.00	32.35	772.08	0.00	3.32	0 00:00	0.00	0.00
40	D06	Junction	769.06	775.67	769.06	776.16	225.00	31.07	772.55	0.00	3.13	0 00:00	0.00	0.00
41	D07	Junction	769.37	774.54	769.37	774.54	0.00	30.09	773.03	0.00	1.50	0 00:00	0.00	0.00
42	D08	Junction	769.94	771.96	769.94	772.62	1945.00	31.06	773.69	0.00	0.81	0 00:00	0.00	0.00
43	D09	Junction	770.21	772.06	770.21	772.06	0.00	25.58	773.91	0.00	1.09	0 00:00	0.00	0.00
44	D10	Junction	770.99	772.16	770.99	772.16	0.00	29.19	773.99	0.00	0.00	0 12:00	3.88	21.00
45	D11	Junction	771.26	772.26	771.26	772.82	1945.00	26.75	774.36	0.00	1.14	0 00:00	0.00	0.00
46	D12	Junction	771.54	772.36	771.54	772.36	0.00	25.31	774.54	0.00	0.00	0 12:00	1.18	18.00
47	D13	Junction	771.79	776.05	771.79	776.99	4500.00	23.75	775.19	0.00	0.85	0 00:00	0.00	0.00
48	D14	Junction	772.17	775.76	772.17	776.84	3586.00	22.46	775.91	0.00	2.73	0 00:00	0.00	0.00
49	D15	Junction	772.34	776.79	772.34	777.40	223.00	18.15	776.22	0.00	2.08	0 00:00	0.00	0.00
50	D16	Junction	772.52	777.10	772.52	777.63	205.00	16.87	776.47	0.00	0.63	0 00:00	0.00	0.00
51	D17	Junction	772.79	776.75	772.79	778.07	4335.00	17.03	776.77	0.00	0.23	0 00:00	0.00	0.00
52	D18	Junction	773.77	772.45	773.77	773.27	1575.00	13.39	776.90	0.63	0.00	0 11:55	0.31	20.00
53	D19	Junction	774.05	772.55	774.05	773.27	1575.00	9.43	776.91	0.86	0.00	0 11:52	0.39	25.00
54	D20	Junction	774.32	772.65	774.32	773.37	1575.00	11.14	776.90	0.58	0.00	0 11:53	0.28	24.00
55	D21	Junction	774.60	772.75	774.60	772.75	0.00	16.40	776.60	0.00	0.00	0 12:02	3.66	19.00
56	D22	Junction	775.71	776.22	775.71	776.22	0.00	3.74	776.78	0.00	0.43	0 00:00	0.00	0.00
57	D23	Junction	776.26	776.70	776.26	776.70	0.00	2.71	777.14	0.00	0.62	0 00:00	0.00	0.00
58	D24	Junction	777.89	776.12	777.89	776.12	0.00	3.86	778.89	0.00	0.00	0 12:00	0.19	13.00
59	D25	Junction	779.33	776.44	779.33	776.44	0.00	1.83	780.19	0.00	0.14	0 00:00	0.00	0.00
60	D27	Junction	768.65	773.41	768.65	774.80	2500.00	38.95	771.50	0.00	1.91	0 00:00	0.00	0.00
61	D28	Junction	768.72	773.41	768.72	774.80	2500.00	37.77	771.93	0.00	1.99	0 00:00	0.00	0.00
62	D29	Junction	769.20	772.38	769.20	774.80	100300.00	36.35	772.82	0.00	2.18	0 00:00	0.00	0.00
63	D30	Junction	769.47	772.62	769.47	773.17	4064.00	28.23	773.16	0.55	0.00	0 11:57	0.63	29.00
64	D31	Junction	769.75	772.72	769.75	773.27	4064.00	25.98	773.43	0.00	1.57	0 00:00	0.00	0.00
65	D32	Junction	770.02	772.82	770.02	773.37	4064.00	25.72	773.52	0.50	0.00	0 11:48	0.58	32.00
66	D33	Junction	770.30	772.92	770.30	773.47	4064.00	24.16	773.58	0.00	1.42	0 00:00	0.00	0.00
67	D34	Junction	770.57	773.02	770.57	773.02	0.00	26.00	773.57	0.00	0.00	0 12:02	5.83	27.00
68	D35	Junction	771.20	773.46	771.20	773.70	200.00	21.90	774.00	0.30	0.00	0 11:47	0.02	29.00
69	D36	Junction	771.41	776.28	771.41	776.49	212.00	19.44	774.41	0.00	1.87	0 00:00	0.00	0.00
70	D37	Junction	771.49	776.22	771.49	776.49	241.00	16.65	774.53	0.00	3.12	0 00:00	0.00	0.00
71	D38	Junction	771.85	772.65	771.85	776.47	131026.00	16.34	774.66	0.00	1.34	0 00:00	0.00	0.00
72	D39	Junction	772.14	772.79	772.14	772.79	0.00	22.33	774.64	0.00	0.00	0 12:00	5.77	28.00
73	D40	Junction	772.92	772.89	772.92	773.44	3310.00	16.77	775.60	0.00	0.90	0 00:00	0.00	0.00
74	D41	Junction	773.19	772.99	773.19	773.54	3089.00	11.69	775.79	0.60	0.00	0 11:50	0.52	29.00
75	D42	Junction	773.47	773.09	773.47	773.64	3516.00	9.95	775.84	0.00	1.16	0 00:00	0.00	0.00
76	D43	Junction	773.74	773.19	773.74	773.19	0.00	15.04	775.74	0.00	0.00	0 12:00	3.13	20.00
77	D44	Junction	773.88	773.55	773.88	773.55	0.00	7.00	775.86	0.00	0.02	0 00:00	0.00	0.00
78	D45	Junction	775.52	776.40	775.52	777.27	7643.00	2.26	776.53	0.01	0.00	0 12:00	0.01	8.00
79	D46	Junction	774.93	776.01	774.93	776.01	0.00	6.48	776.43	0.00	0.00	0 12:00	0.00	1.00
80	D47	Junction	775.70	775.90	775.70	775.90	0.00	4.96	776.99	0.00	0.21	0 00:00	0.00	0.00
81	D48	Junction	776.08	774.35	776.08	774.35	0.00	3.56	777.23	0.00	0.10	0 00:00	0.00	0.00

Node Summary

SN	Element ID	Element Type	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Initial Water Elevation (ft)	Surcharge Elevation (ft)	Ponded Area (ft²)	Peak Inflow (cfs)	Max HGL Elevation Attained (ft)	Max Surcharge Depth Attained (ft)	Min Freeboard Attained (ft)	Time of Peak Flooding Occurrence (days hh:mm)	Total Flooded Volume (ac-in)	Total Time Flooded (min)
82	D49	Junction	776.63	774.35	776.63	774.35	0.00	2.49	777.63	0.00	0.00	0 12:00	0.00	3.00
83	D50	Junction	776.82	776.38	776.82	776.38	0.00	1.41	777.69	0.00	0.13	0 00:00	0.00	0.00
84	D51	Junction	778.29	776.85	778.29	776.85	0.00	1.60	779.07	0.00	0.22	0 00:00	0.00	0.00
85	D52	Junction	778.47	776.52	778.47	776.52	0.00	1.18	779.11	0.00	0.36	0 00:00	0.00	0.00
86	D53	Junction	776.89	775.58	776.89	775.58	0.00	1.41	777.39	0.00	1.00	0 00:00	0.00	0.00
87	D54	Junction	777.35	775.40	777.35	775.40	0.00	1.97	778.25	0.00	0.10	0 00:00	0.00	0.00
88	D55	Junction	778.32	775.39	778.32	775.39	0.00	1.79	779.16	0.00	0.16	0 00:00	0.00	0.00
89	D56	Junction	775.84	775.74	775.84	775.80	1000.00	0.66	776.22	0.00	0.62	0 00:00	0.00	0.00
90	D58	Junction	770.00	767.01	770.00	767.01	0.00	4.47	771.00	0.00	0.00	0 12:25	4.51	144.00
91	D60	Junction	768.75	773.70	768.75	773.70	0.00	33.65	773.70	0.00	0.00	0 01:39	0.77	6.00
92	D61	Junction	768.90	773.70	768.90	773.72	0.00	24.81	773.72	0.02	0.00	0 05:59	0.06	3.00
93	RD01	Junction	775.84	770.95	775.84	770.95	0.00	4.98	776.84	0.00	0.00	0 12:00	0.48	20.00
94	RD02	Junction	775.34	770.45	775.34	770.45	0.00	3.10	776.34	0.00	0.00	0 12:00	0.16	14.00
95	RD03	Junction	775.82	770.93	775.82	770.93	0.00	2.77	776.82	0.00	0.00	0 12:00	0.03	6.00
96	RD04	Junction	775.32	770.42	775.32	770.42	0.00	3.10	776.32	0.00	0.00	0 12:00	0.08	9.00
97	RD05	Junction	775.82	770.92	775.82	770.92	0.00	2.12	776.82	0.00	0.00	0 12:00	0.00	2.00
98	RD06	Junction	776.34	771.44	776.34	771.44	0.00	1.93	777.30	0.00	0.04	0 00:00	0.00	0.00
99	RD07	Junction	775.80	770.91	775.80	770.91	0.00	2.73	776.80	0.00	0.00	0 12:00	0.05	9.00
100	RD08	Junction	776.30	771.41	776.30	771.41	0.00	2.96	777.30	0.00	0.00	0 12:00	0.13	13.00
101	RD09	Junction	776.82	771.93	776.82	771.93	0.00	3.43	777.82	0.00	0.00	0 12:00	0.16	13.00
102	RD10	Junction	776.01	771.12	776.01	771.12	0.00	3.43	777.01	0.00	0.00	0 12:00	0.16	13.00
103	RD11	Junction	775.49	770.60	775.49	770.60	0.00	2.96	776.49	0.00	0.00	0 12:00	0.13	13.00
104	RD12	Junction	774.99	770.10	774.99	770.10	0.00	2.73	775.99	0.00	0.00	0 12:00	0.05	9.00
105	RD13	Junction	775.98	771.09	775.98	771.09	0.00	2.12	776.98	0.00	0.00	0 12:00	0.00	1.00
106	RD14	Junction	775.46	770.56	775.46	770.56	0.00	2.12	776.46	0.00	0.00	0 12:00	0.01	4.00
107	RD15	Junction	774.96	770.07	774.96	770.07	0.00	3.10	775.96	0.00	0.00	0 12:00	0.09	9.00
108	RD16	Junction	775.97	771.08	775.97	771.08	0.00	2.77	776.97	0.00	0.00	0 12:00	0.06	9.00
109	RD17	Junction	775.45	770.55	775.45	770.55	0.00	3.10	776.45	0.00	0.00	0 12:00	0.15	12.00
110	RD18	Junction	774.95	770.06	774.95	770.06	0.00	4.98	775.95	0.00	0.00	0 12:00	0.45	18.00
111	RD19	Junction	776.97	772.08	776.97	772.08	0.00	4.98	777.97	0.00	0.00	0 12:00	0.45	18.00
112	RD20	Junction	777.47	772.57	777.47	772.57	0.00	3.10	778.47	0.00	0.00	0 12:00	0.15	12.00
113	RD21	Junction	777.99	773.10	777.99	773.10	0.00	2.77	778.99	0.00	0.00	0 12:00	0.06	9.00
114	RD22	Junction	776.37	771.47	776.37	771.47	0.00	3.10	777.37	0.00	0.00	0 12:00	0.16	10.00
115	RD23	Junction	776.87	771.97	776.87	771.97	0.00	2.12	777.87	0.00	0.00	0 12:00	0.01	4.00
116	RD24	Junction	777.39	772.49	777.39	772.49	0.00	2.12	778.39	0.00	0.00	0 12:00	0.00	1.00
117	RD25	Junction	776.75	771.85	776.75	771.85	0.00	2.73	777.75	0.00	0.00	0 12:00	0.05	9.00
118	RD26	Junction	777.25	772.35	777.25	772.35	0.00	2.96	778.25	0.00	0.00	0 12:00	0.13	13.00
119	RD27	Junction	777.77	772.87	777.77	772.87	0.00	3.43	778.77	0.00	0.00	0 12:00	0.16	13.00
120	RD29	Junction	778.20	773.31	778.20	773.31	0.00	3.43	779.20	0.00	0.00	0 12:00	0.16	13.00
121	RD30	Junction	777.68	772.79	777.68	772.79	0.00	2.96	778.68	0.00	0.00	0 12:00	0.13	13.00
122	RD31	Junction	777.18	772.29	777.18	772.29	0.00	2.73	778.18	0.00	0.00	0 12:00	0.05	9.00
123	RD32	Junction	777.73	772.83	777.73	772.83	0.00	2.12	778.73	0.00	0.00	0 12:00	0.00	1.00
124	RD33	Junction	777.21	772.31	777.21	772.31	0.00	2.12	778.21	0.00	0.00	0 12:00	0.01	3.00
125	RD34	Junction	776.71	771.81	776.71	771.81	0.00	3.10	777.71	0.00	0.00	0 12:00	0.09	9.00
126	RD35	Junction	777.27	772.38	777.27	772.38	0.00	2.77	778.27	0.00	0.00	0 12:00	0.06	9.00
127	RD36	Junction	776.75	771.86	776.75	771.86	0.00	3.10	777.75	0.00	0.00	0 12:00	0.15	12.00
128	RD37	Junction	773.25	771.36	773.25	771.36	0.00	4.98	777.25	0.00	0.00	0 12:00	0.45	18.00
129	D01	Outfall	764.40					24.48	764.40					
130	POND	Storage Node	768.00	772.00	768.00		100290.00	88.19	771.42				0.00	0.00

Link Summary

SN	Element ID	Element Type	From (Inlet) Node	To (Outlet) Node	Length (ft)	Inlet Invert Elevation (ft)	Outlet Invert Elevation (ft)	Average Slope (%)	Diameter or Height (in)	Manning's Roughness	Peak Flow (cfs)	Peak Flow Velocity (ft/sec)	Peak Flow Depth (ft)	Total Time Surcharged (min)
1	Link-01	Pipe	D60	POND	49.90	771.00	767.00	8.0200	12.000	0.0150	32.45	50.00	1.00	8.00
2	Link-02	Pipe	D61	D60	30.20	768.90	768.75	0.5000	12.000	0.0150	33.64	45.32	1.00	1054.00
3	Link-03	Pipe	D02	D01	54.17	767.94	767.40	1.0000	24.000	0.0150	24.48	8.01	1.87	0.00
4	P(100)	Pipe	(113)	(112)	49.86	776.95	776.45	1.0000	15.000	0.0120	3.82	3.27	1.19	0.00
5	P(101)	Pipe	(114)	(113)	52.12	777.72	777.20	1.0000	12.000	0.0120	2.04	2.92	0.94	0.00
6	P(102)	Pipe	RD27	(114)	5.00	777.77	777.72	1.0000	12.000	0.0120	2.05	2.65	0.96	0.00
7	P(103)	Pipe	RD26	(113)	5.00	777.25	777.20	1.0000	12.000	0.0120	1.80	2.78	0.98	0.00
8	P(104)	Pipe	RD25	(112)	5.00	776.75	776.70	1.0000	12.000	0.0120	2.06	2.94	0.96	0.00
9	P(105)	Pipe	(119)	D29	90.03	774.40	773.50	1.0000	18.000	0.0120	5.87	4.26	1.09	0.00
10	P(106)	Pipe	(120)	(119)	49.86	775.15	774.65	1.0000	15.000	0.0120	3.82	3.18	1.19	0.00
11	P(107)	Pipe	(121)	(120)	52.12	775.92	775.40	1.0000	12.000	0.0120	2.04	2.74	0.94	0.00
12	P(108)	Pipe	RD16	(121)	5.00	775.97	775.92	1.0000	12.000	0.0120	2.05	2.65	0.96	0.00
13	P(109)	Pipe	RD17	(120)	5.00	775.45	775.40	1.0000	12.000	0.0120	1.98	2.87	0.98	0.00
14	P(110)	Pipe	RD18	(119)	5.00	774.95	774.90	1.0000	12.000	0.0120	2.29	3.15	0.96	0.00
15	P(111)	Pipe	(125)	D31	91.03	774.41	773.50	1.0000	18.000	0.0120	5.87	4.26	1.09	0.00
16	P(112)	Pipe	(126)	(125)	49.86	775.16	774.66	1.0000	15.000	0.0120	3.82	3.18	1.19	0.00
17	P(113)	Pipe	(127)	(126)	52.12	775.93	775.41	1.0000	12.000	0.0120	2.04	2.79	0.94	0.00
18	P(114)	Pipe	RD13	(127)	5.00	775.98	775.93	1.0000	12.000	0.0120	2.05	2.65	0.96	0.00
19	P(115)	Pipe	RD14	(126)	5.00	775.46	775.41	1.0000	12.000	0.0120	1.91	2.82	0.98	0.00
20	P(116)	Pipe	RD15	(125)	5.00	774.96	774.91	1.0000	12.000	0.0120	2.29	3.06	0.96	0.00
21	P(117)	Pipe	(131)	D33	94.06	774.44	773.50	1.0000	18.000	0.0120	5.87	4.26	1.09	0.00
22	P(118)	Pipe	(132)	(131)	49.86	775.19	774.69	1.0000	15.000	0.0120	3.82	3.27	1.19	0.00
23	P(119)	Pipe	(133)	(132)	52.12	775.96	775.44	1.0000	12.000	0.0120	2.04	2.92	0.94	0.00
24	P(120)	Pipe	RD10	(133)	5.00	776.01	775.96	1.0000	12.000	0.0120	2.05	2.65	0.96	0.00
25	P(121)	Pipe	RD11	(132)	5.00	775.49	775.44	1.0000	12.000	0.0120	1.80	2.78	0.98	0.00
26	P(122)	Pipe	RD12	(131)	5.00	774.99	774.94	1.0000	12.000	0.0120	2.07	2.94	0.96	0.00
27	P(123)	Pipe	(137)	D38	120.37	775.70	774.50	1.0000	18.000	0.0120	5.87	4.26	1.09	0.00
28	P(124)	Pipe	(138)	(137)	49.86	776.45	775.95	1.0000	15.000	0.0120	3.82	3.18	1.19	0.00
29	P(125)	Pipe	(139)	(138)	52.12	777.22	776.70	1.0000	12.000	0.0120	2.04	2.74	0.94	0.00
30	P(126)	Pipe	RD35	(139)	5.00	777.27	777.22	1.0000	12.000	0.0120	2.05	2.65	0.96	0.00
31	P(127)	Pipe	RD36	(138)	5.00	776.75	776.70	1.0000	12.000	0.0120	1.98	2.87	0.98	0.00
32	P(128)	Pipe	RD37	(137)	5.00	776.25	776.20	1.0000	12.000	0.0120	2.29	3.16	0.96	0.00
33	P(129)	Pipe	(143)	D40	115.56	776.16	775.00	1.0000	18.000	0.0120	5.89	4.27	1.09	0.00
34	P(130)	Pipe	(144)	(143)	49.86	776.90	776.41	0.9800	15.000	0.0120	3.85	3.19	1.19	0.00
35	P(131)	Pipe	(145)	(144)	52.12	777.68	777.16	1.0000	12.000	0.0120	2.04	2.82	0.94	0.00
36	P(132)	Pipe	RD32	(145)	5.00	777.73	777.68	1.0000	12.000	0.0120	2.05	2.65	0.96	0.00
37	P(133)	Pipe	RD33	(144)	5.03	777.21	777.16	0.9900	12.000	0.0120	1.93	2.82	0.98	0.00
38	P(134)	Pipe	RD34	(143)	5.00	776.71	776.66	1.0000	12.000	0.0120	2.29	3.07	0.96	0.00
39	P(135)	Pipe	(149)	D42	113.42	776.63	775.50	1.0000	18.000	0.0120	5.87	4.26	1.09	0.00
40	P(136)	Pipe	(150)	(149)	49.86	777.38	776.88	1.0000	15.000	0.0120	3.82	3.28	1.19	0.00
41	P(137)	Pipe	(151)	(150)	52.12	778.15	777.63	1.0000	12.000	0.0120	2.04	2.92	0.94	0.00
42	P(138)	Pipe	RD29	(151)	5.00	778.20	778.15	1.0000	12.000	0.0120	2.05	2.65	0.96	0.00
43	P(139)	Pipe	RD30	(150)	5.00	777.68	777.63	1.0000	12.000	0.0120	1.80	2.78	0.98	0.00
44	P(140)	Pipe	RD31	(149)	5.00	777.18	777.13	1.0000	12.000	0.0120	2.07	2.94	0.96	0.00
45	P(15)	Pipe	D58	POND	58.56	770.00	768.50	2.5600	12.000	0.0120	2.98	3.79	1.00	143.00
46	P(16)	Pipe	D07	D06	123.16	769.37	769.06	0.2500	36.000	0.0120	30.09	4.26	3.00	28.00
47	P(16) (1)	Pipe	D08	D07	226.84	769.94	769.37	0.2500	36.000	0.0120	30.09	4.26	3.00	26.00
48	P(17)	Pipe	D09	D08	110.00	770.21	769.94	0.2500	36.000	0.0120	24.83	3.51	3.00	26.00
49	P(18)	Pipe	D10	D09	110.00	770.99	770.21	0.7100	36.000	0.0120	22.33	3.37	3.00	21.00
50	P(19)	Pipe	D11	D10	110.00	771.26	770.99	0.2500	36.000	0.0120	26.75	3.78	3.00	19.00
51	P(20)	Pipe	D12	D11	110.00	771.54	771.26	0.2500	36.000	0.0120	20.52	3.04	3.00	18.00
52	P(23)	Pipe	D18	D17	192.59	773.77	773.29	0.2500	30.000	0.0120	12.93	3.82	2.50	20.00
53	P(24)	Pipe	D19	D18	110.00	774.05	773.77	0.2500	24.000	0.0120	10.43	3.33	2.00	24.00
54	P(25)	Pipe	D20	D19	110.00	774.32	774.05	0.2500	24.000	0.0120	8.17	2.72	2.00	24.00
55	P(26)	Pipe	D21	D20	110.00	774.60	774.32	0.2500	24.000	0.0120	9.39	2.99	2.00	19.00
56	P(27)	Pipe	D22	D21	121.80	775.71	775.10	0.5000	18.000	0.0120	3.71	2.93	1.28	0.00
57	P(28)	Pipe	D23	D22	110.16	776.26	775.71	0.5000	18.000	0.0120	2.70	2.46	0.97	0.00
58	P(29)	Pipe	D24	D23	113.60	777.89	776.76	0.9900	12.000	0.0120	2.29	3.49	0.78	0.00
59	P(30)	Pipe	D25	D24	144.00	779.33	777.89	1.0000	12.000	0.0120	1.81	2.37	0.93	0.00
60	P(31)	Pipe	D27	POND	58.17	768.65	768.50	0.2600	48.000	0.0120	38.95	5.07	2.86	0.00
61	P(32)	Pipe	D28	D27	30.00	768.72	768.65	0.2300	36.000	0.0120	37.77	5.45	2.93	0.00
62	P(33)	Pipe	D29	D28	191.79	769.20	768.72	0.2500	36.000	0.0120	36.36	5.14	3.00	26.00
63	P(34)	Pipe	D30	D29	110.00	769.47	769.20	0.2500	36.000	0.0120	27.32	3.87	3.00	32.00
64	P(35)	Pipe	D31	D30	110.00	769.75	769.47	0.2500	36.000	0.0120	25.85	3.66	3.00	32.00
65	P(36)	Pipe	D32	D31	110.00	770.02	769.75	0.2500	36.000	0.0120	22.23	3.16	3.00	32.00
66	P(37)	Pipe	D33	D32	110.00	770.30	770.02	0.2500	36.000	0.0120	24.20	3.42	3.00	30.00
67	P(38)	Pipe	D34	D33	110.00	770.57	770.30	0.2500	36.000	0.0120	19.31	2.84	3.00	27.00
68	P(39)	Pipe	D35	D34	50.09	771.20	771.07	0.2600	30.000	0.0120	21.90	4.46	2.50	27.00
69	P(39) (1)	Pipe	D36	D35	84.79	771.41	771.20	0.2500	30.000	0.0120	19.41	3.95	2.50	29.00
70	P(40)	Pipe	D37	D36	30.63	771.49	771.41	0.2600	30.000	0.0120	16.04	3.27	2.50	30.00
71	P(41)	Pipe	D38	D37	145.53	771.85	771.49	0.2500	30.000	0.0120	15.72	3.20	2.50	30.00
72	P(42)	Pipe	D39	D38	115.67	772.14	771.85	0.2500	30.000	0.0120	11.18	2.36	2.50	28.00
73	P(43)	Pipe	D40	D39	110.00	772.92	772.64	0.2500	24.000	0.0120	16.77	5.34	2.00	28.00
74	P(44)	Pipe	D41	D40	110.00	773.19	772.92	0.2500	24.000	0.0120	9.65	3.07	2.00	29.00
75	P(45)	Pipe	D42	D41	110.00	773.47	773.19	0.2500	24.000	0.0120	9.87	3.14	2.00	25.00
76	P(46)	Pipe	D43	D42	110.00	773.74	773.47	0.2500	24.000	0.0120	5.30	1.69	2.00	20.00
77	P(47)	Pipe	D44	D43	55.00	773.88	773.74	0.2500	24.000	0.0120	7.01	2.23	1.99	0.00
78	P(48)	Pipe	D45	D44	255.74	775.52	774.88	0.2500	12.000	0.0120	2.01	2.60	0.99	0.00
79	P(49)	Pipe	D13	D12	100.80	771.79	771.54	0.2500	30.000	0.0120	23.75	4.84	2.50	24.00
80	P(50)	Pipe	D14	D13	152.05	772.17	771.79	0.2500	30.000	0.0120	22.48	4.58	2.50	25.00
81	P(51)	Pipe	D53	D14	108.00	776.89	775.81	1.0000	18.000	0.0120	1.38	3.30	0.43	0.00

Link Summary

SN	Element ID	Element Type	From (Inlet) Node	To (Outlet) Node	Length	Inlet Invert Elevation	Outlet Invert Elevation	Average Slope	Diameter or Height	Manning's Roughness	Peak Flow	Peak Flow Velocity	Peak Flow Depth	Total Time Surcharged
					(ft)	(ft)	(ft)	(%)	(in)		(cfs)	(ft/sec)	(ft)	(min)
82	P(53)	Pipe	D16	D15	70.60	772.52	772.34	0.2500	30.000	0.0120	16.87	3.44	2.50	26.00
83	P(54)	Pipe	D52	D15	117.00	778.47	777.30	1.0000	12.000	0.0120	1.14	2.94	0.50	0.00
84	P(55)	Pipe	D51	D37	163.40	778.29	776.65	1.0000	12.000	0.0120	1.54	3.08	0.60	0.00
85	P(56)	Pipe	D46	D36	161.45	774.93	773.31	1.0000	18.000	0.0120	6.30	3.90	1.30	0.00
86	P(57)	Pipe	D47	D46	76.76	775.70	774.93	1.0000	18.000	0.0120	4.94	2.89	1.39	0.00
87	P(58)	Pipe	D48	D47	13.14	776.08	775.95	0.9900	15.000	0.0120	3.55	3.27	1.09	0.00
88	P(59)	Pipe	D49	D48	29.92	776.63	776.33	1.0000	12.000	0.0120	2.29	2.98	0.95	0.00
89	P(60)	Pipe	D50	D49	13.28	776.82	776.63	1.4300	12.000	0.0120	1.41	1.85	0.94	0.00
90	P(61)	Pipe	D04	POND	52.97	768.63	768.50	0.2500	36.000	0.0120	35.00	5.58	2.90	0.00
91	P(62)	Pipe	D05	D04	82.14	768.83	768.63	0.2400	36.000	0.0120	32.35	4.58	2.98	0.00
92	P(63)	Pipe	D06	D05	90.00	769.05	768.83	0.2400	36.000	0.0120	31.07	4.40	3.00	27.00
93	P(64)	Pipe	D17	D16	108.60	772.79	772.52	0.2500	30.000	0.0120	16.68	3.40	2.50	27.00
94	P(65)	Pipe	D55	D14	67.82	778.32	777.64	1.0000	12.000	0.0120	1.77	3.23	0.66	0.00
95	P(66)	Pipe	D54	D04	82.14	777.35	775.71	2.0000	12.000	0.0120	1.95	3.58	0.65	0.00
96	P(67)	Pipe	D56	D28	46.08	773.84	772.92	2.0000	12.000	0.0120	0.65	3.68	0.27	0.00
97	P(68)	Pipe	D15	D14	69.52	772.34	772.17	0.2400	30.000	0.0120	18.20	3.71	2.50	25.00
98	P(69)	Pipe	(81)	D08	127.13	774.27	773.00	1.0000	18.000	0.0120	6.11	4.31	1.12	0.00
99	P(70)	Pipe	(82)	(81)	52.12	775.04	774.52	1.0000	15.000	0.0120	3.82	3.28	1.21	0.00
100	P(71)	Pipe	(83)	(82)	49.86	775.79	775.29	1.0000	12.000	0.0120	2.04	2.94	0.94	0.00
101	P(72)	Pipe	RD01	(83)	5.00	775.84	775.79	1.0000	12.000	0.0120	2.05	2.65	0.96	0.00
102	P(73)	Pipe	RD02	(82)	5.00	775.34	775.29	1.0000	12.000	0.0120	1.80	2.63	0.98	0.00
103	P(74)	Pipe	RD03	(81)	5.00	775.82	775.77	1.0000	12.000	0.0120	2.29	3.49	0.78	0.00
104	P(75)	Pipe	(87)	D09	126.56	774.77	773.50	1.0000	18.000	0.0120	5.86	4.26	1.09	0.00
105	P(76)	Pipe	(88)	(87)	49.86	775.51	775.02	0.9800	15.000	0.0120	3.80	3.16	1.18	0.00
106	P(77)	Pipe	(89)	(88)	52.12	776.29	775.77	1.0000	12.000	0.0120	1.90	2.78	0.91	0.00
107	P(78)	Pipe	RD06	(89)	5.00	776.34	776.29	1.0000	12.000	0.0120	1.92	2.54	0.92	0.00
108	P(79)	Pipe	RD05	(88)	5.00	775.82	775.77	1.0000	12.000	0.0120	2.00	2.86	0.97	0.00
109	P(80)	Pipe	RD04	(87)	5.00	775.32	775.27	1.0000	12.000	0.0120	2.29	3.11	0.96	0.00
110	P(81)	Pipe	(94)	D11	125.15	775.25	774.00	1.0000	18.000	0.0120	5.87	4.26	1.09	0.00
111	P(82)	Pipe	(95)	(94)	49.86	776.00	775.50	1.0000	15.000	0.0120	3.82	3.28	1.19	0.00
112	P(83)	Pipe	(96)	(95)	52.12	776.77	776.25	1.0000	12.000	0.0120	2.04	2.92	0.94	0.00
113	P(84)	Pipe	RD09	(96)	5.00	776.82	776.77	1.0000	12.000	0.0120	2.05	2.65	0.96	0.00
114	P(85)	Pipe	RD08	(95)	5.00	776.30	776.25	1.0000	12.000	0.0120	1.80	2.78	0.98	0.00
115	P(86)	Pipe	RD07	(94)	5.00	775.80	775.75	1.0000	12.000	0.0120	2.07	2.94	0.96	0.00
116	P(87)	Pipe	(100)	D17	92.04	776.42	775.50	1.0000	18.000	0.0120	5.87	4.22	1.33	0.00
117	P(88)	Pipe	(101)	(100)	49.86	777.17	776.67	1.0000	15.000	0.0120	3.82	3.18	1.19	0.00
118	P(89)	Pipe	(102)	(101)	52.12	777.94	777.42	1.0000	12.000	0.0120	2.04	2.74	0.94	0.00
119	P(90)	Pipe	RD21	(102)	5.00	777.99	777.94	1.0000	12.000	0.0120	2.05	2.65	0.96	0.00
120	P(91)	Pipe	RD20	(101)	5.00	777.47	777.42	1.0000	12.000	0.0120	1.98	2.87	0.98	0.00
121	P(92)	Pipe	RD19	(100)	5.00	776.97	776.92	1.0000	12.000	0.0120	2.29	3.15	0.96	0.00
122	P(93)	Pipe	(106)	D18	154.50	775.82	774.27	1.0000	18.000	0.0120	5.57	3.19	1.49	2.00
123	P(94)	Pipe	(107)	(106)	49.86	776.57	776.07	1.0000	15.000	0.0120	3.82	3.14	1.22	0.00
124	P(95)	Pipe	(108)	(107)	52.12	777.34	776.82	1.0000	12.000	0.0120	2.04	2.79	0.94	0.00
125	P(96)	Pipe	RD24	(108)	5.00	777.39	777.34	1.0000	12.000	0.0120	2.05	2.65	0.96	0.00
126	P(97)	Pipe	RD23	(107)	5.00	776.87	776.82	1.0000	12.000	0.0120	1.91	2.82	0.98	0.00
127	P(98)	Pipe	RD22	(106)	5.00	776.37	776.32	1.0000	12.000	0.0120	2.29	3.05	0.99	2.00
128	P(99)	Pipe	(112)	D20	137.40	776.20	774.82	1.0000	18.000	0.0120	5.87	3.45	1.46	0.00
129	Orifice-WQv	Orifice	POND	D02		768.00	767.94		6.100		1.47			
130	Weir-RIM	Weir	POND	D02		768.00	767.94				19.78			
131	Weir-Spillway	Weir	POND	D02		768.00	767.94				4.64			

Junction Input

SN	Element ID	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Surcharge Elevation (ft)	Surcharge Depth (ft)	Ponded Area (ft²)	Minimum Pipe Cover (in)
1	(100)	776.42	772.06	-4.36	772.06	0.00	0.00	0.00
2	(101)	777.17	772.54	-4.63	772.54	0.00	0.00	0.00
3	(102)	777.94	773.05	-4.89	773.05	0.00	0.00	0.00
4	(106)	775.82	771.46	-4.36	771.46	0.00	0.00	0.00
5	(107)	776.57	771.94	-4.63	771.94	0.00	0.00	0.00
6	(108)	777.34	772.44	-4.90	772.44	0.00	0.00	0.00
7	(112)	776.20	771.84	-4.36	771.84	0.00	0.00	0.00
8	(113)	776.95	772.32	-4.63	772.32	0.00	0.00	0.00
9	(114)	777.72	772.82	-4.90	772.82	0.00	0.00	0.00
10	(119)	774.40	770.04	-4.36	770.04	0.00	0.00	0.00
11	(120)	775.15	770.52	-4.63	770.52	0.00	0.00	0.00
12	(121)	775.92	771.03	-4.89	771.03	0.00	0.00	0.00
13	(125)	774.41	770.05	-4.36	770.05	0.00	0.00	0.00
14	(126)	775.16	770.53	-4.63	770.53	0.00	0.00	0.00
15	(127)	775.93	771.04	-4.89	771.04	0.00	0.00	0.00
16	(131)	774.44	770.08	-4.36	770.08	0.00	0.00	0.00
17	(132)	775.19	770.56	-4.63	770.56	0.00	0.00	0.00
18	(133)	775.96	771.07	-4.89	771.07	0.00	0.00	0.00
19	(137)	775.70	771.35	-4.35	771.35	0.00	0.00	0.00
20	(138)	776.45	771.82	-4.63	771.82	0.00	0.00	0.00
21	(139)	777.22	772.33	-4.89	772.33	0.00	0.00	0.00
22	(143)	776.16	771.80	-4.36	771.80	0.00	0.00	0.00
23	(144)	776.90	772.28	-4.62	772.28	0.00	0.00	0.00
24	(145)	777.68	772.78	-4.90	772.78	0.00	0.00	0.00
25	(149)	776.63	772.28	-4.35	772.28	0.00	0.00	0.00
26	(150)	777.38	772.75	-4.63	772.75	0.00	0.00	0.00
27	(151)	778.15	773.26	-4.89	773.26	0.00	0.00	0.00
28	(81)	774.27	770.95	-3.32	770.95	0.00	0.00	0.00
29	(82)	775.04	770.41	-4.63	770.41	0.00	0.00	0.00
30	(83)	775.79	770.90	-4.89	770.90	0.00	0.00	0.00
31	(87)	774.77	770.41	-4.36	770.41	0.00	0.00	0.00
32	(88)	775.51	770.89	-4.62	770.89	0.00	0.00	0.00
33	(89)	776.29	771.39	-4.90	771.39	0.00	0.00	0.00
34	(94)	775.25	770.90	-4.35	770.90	0.00	0.00	0.00
35	(95)	776.00	771.37	-4.63	771.37	0.00	0.00	0.00
36	(96)	776.77	771.88	-4.89	771.88	0.00	0.00	0.00
37	D02	767.94	771.00	3.06	771.00	0.00	0.00	0.00
38	D04	768.63	774.75	6.12	774.75	0.00	0.00	0.00
39	D05	768.84	775.40	6.56	776.16	0.76	225.00	42.89
40	D06	769.06	775.67	6.61	776.16	0.49	225.00	43.37
41	D07	769.37	774.54	5.17	774.54	0.00	0.00	26.01
42	D08	769.94	771.96	2.02	772.62	0.66	1945.00	0.00
43	D09	770.21	772.06	1.85	772.06	0.00	0.00	0.00
44	D10	770.99	772.16	1.17	772.16	0.00	0.00	0.00
45	D11	771.26	772.26	1.00	772.82	0.56	1945.00	0.00
46	D12	771.54	772.36	0.82	772.36	0.00	0.00	0.00
47	D13	771.79	776.05	4.26	776.99	0.95	4500.00	21.06
48	D14	772.17	775.76	3.59	776.84	1.08	3586.00	0.00
49	D15	772.34	776.79	4.45	777.40	0.61	223.00	0.00
50	D16	772.52	777.10	4.58	777.63	0.53	205.00	25.01
51	D17	772.79	776.75	3.96	778.07	1.32	4335.00	0.00
52	D18	773.77	772.45	-1.32	773.27	0.82	1575.00	0.00
53	D19	774.05	772.55	-1.50	773.27	0.72	1575.00	0.00
54	D20	774.32	772.65	-1.67	773.37	0.72	1575.00	0.00
55	D21	774.60	772.75	-1.85	772.75	0.00	0.00	0.00
56	D22	775.71	776.22	0.51	776.22	0.00	0.00	0.00
57	D23	776.26	776.70	0.44	776.70	0.00	0.00	0.00
58	D24	777.89	776.12	-1.77	776.12	0.00	0.00	0.00
59	D25	779.33	776.44	-2.89	776.44	0.00	0.00	0.00
60	D27	768.65	773.41	4.76	774.80	1.39	2500.00	9.12
61	D28	768.72	773.41	4.69	774.80	1.39	2500.00	0.00
62	D29	769.20	772.38	3.18	774.80	2.42	100300.00	0.00
63	D30	769.47	772.62	3.15	773.17	0.55	4064.00	1.76
64	D31	769.75	772.72	2.97	773.27	0.55	4064.00	0.00
65	D32	770.02	772.82	2.80	773.37	0.55	4064.00	0.00
66	D33	770.30	772.92	2.62	773.47	0.55	4064.00	0.00
67	D34	770.57	773.02	2.45	773.02	0.00	0.00	0.00
68	D35	771.20	773.46	2.26	773.70	0.24	200.00	0.00
69	D36	771.41	776.28	4.87	776.49	0.21	212.00	17.64
70	D37	771.49	776.22	4.73	776.49	0.27	241.00	0.00
71	D38	771.85	772.65	0.80	776.47	3.82	131026.00	0.00
72	D39	772.14	772.79	0.65	772.79	0.00	0.00	0.00
73	D40	772.92	772.89	-0.03	773.44	0.55	3310.00	0.00
74	D41	773.19	772.99	-0.20	773.54	0.55	3089.00	0.00
75	D42	773.47	773.09	-0.38	773.64	0.55	3516.00	0.00
76	D43	773.74	773.19	-0.55	773.19	0.00	0.00	0.00
77	D44	773.88	773.55	-0.33	773.55	0.00	0.00	0.00
78	D45	775.52	776.40	0.88	777.27	0.87	7643.00	0.00
79	D46	774.93	776.01	1.08	776.01	0.00	0.00	0.00
80	D47	775.70	775.90	0.20	775.90	0.00	0.00	0.00
81	D48	776.08	774.35	-1.73	774.35	0.00	0.00	0.00
82	D49	776.63	774.35	-2.28	774.35	0.00	0.00	0.00

Junction Input

SN	Element ID	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Surcharge Elevation (ft)	Surcharge Depth (ft)	Ponded Area (ft²)	Minimum Pipe Cover (in)
83	D50	776.82	776.38	-0.44	776.38	0.00	0.00	0.00
84	D51	778.29	776.85	-1.44	776.85	0.00	0.00	0.00
85	D52	778.47	776.52	-1.96	776.52	0.00	0.00	0.00
86	D53	776.89	775.58	-1.31	775.58	0.00	0.00	0.00
87	D54	777.35	775.40	-1.95	775.40	0.00	0.00	0.00
88	D55	778.32	775.39	-2.93	775.39	0.00	0.00	0.00
89	D56	775.84	775.74	-0.10	775.80	0.06	1000.00	10.76
90	D58	770.00	767.01	-2.99	767.01	0.00	0.00	0.00
91	D60	768.75	773.70	4.95	773.70	0.00	0.00	20.40
92	D61	768.90	773.70	4.80	773.72	0.02	0.00	45.60
93	RD01	775.84	770.95	-4.89	770.95	0.00	0.00	0.00
94	RD02	775.34	770.45	-4.89	770.45	0.00	0.00	0.00
95	RD03	775.82	770.93	-4.89	770.93	0.00	0.00	0.00
96	RD04	775.32	770.42	-4.90	770.42	0.00	0.00	0.00
97	RD05	775.82	770.92	-4.90	770.92	0.00	0.00	0.00
98	RD06	776.34	771.44	-4.90	771.44	0.00	0.00	0.00
99	RD07	775.80	770.91	-4.89	770.91	0.00	0.00	0.00
100	RD08	776.30	771.41	-4.89	771.41	0.00	0.00	0.00
101	RD09	776.82	771.93	-4.89	771.93	0.00	0.00	0.00
102	RD10	776.01	771.12	-4.89	771.12	0.00	0.00	0.00
103	RD11	775.49	770.60	-4.90	770.60	0.00	0.00	0.00
104	RD12	774.99	770.10	-4.89	770.10	0.00	0.00	0.00
105	RD13	775.98	771.09	-4.90	771.09	0.00	0.00	0.00
106	RD14	775.46	770.56	-4.90	770.56	0.00	0.00	0.00
107	RD15	774.96	770.07	-4.90	770.07	0.00	0.00	0.00
108	RD16	775.97	771.08	-4.90	771.08	0.00	0.00	0.00
109	RD17	775.45	770.55	-4.90	770.55	0.00	0.00	0.00
110	RD18	774.95	770.06	-4.90	770.06	0.00	0.00	0.00
111	RD19	776.97	772.08	-4.90	772.08	0.00	0.00	0.00
112	RD20	777.47	772.57	-4.90	772.57	0.00	0.00	0.00
113	RD21	777.99	773.10	-4.90	773.10	0.00	0.00	0.00
114	RD22	776.37	771.47	-4.90	771.47	0.00	0.00	0.00
115	RD23	776.87	771.97	-4.90	771.97	0.00	0.00	0.00
116	RD24	777.39	772.49	-4.90	772.49	0.00	0.00	0.00
117	RD25	776.75	771.85	-4.90	771.85	0.00	0.00	0.00
118	RD26	777.25	772.35	-4.90	772.35	0.00	0.00	0.00
119	RD27	777.77	772.87	-4.90	772.87	0.00	0.00	0.00
120	RD29	778.20	773.31	-4.89	773.31	0.00	0.00	0.00
121	RD30	777.68	772.79	-4.89	772.79	0.00	0.00	0.00
122	RD31	777.18	772.29	-4.89	772.29	0.00	0.00	0.00
123	RD32	777.73	772.83	-4.90	772.83	0.00	0.00	0.00
124	RD33	777.21	772.31	-4.90	772.31	0.00	0.00	0.00
125	RD34	776.71	771.81	-4.90	771.81	0.00	0.00	0.00
126	RD35	777.27	772.38	-4.89	772.38	0.00	0.00	0.00
127	RD36	776.75	771.86	-4.89	771.86	0.00	0.00	0.00
128	RD37	773.25	771.36	-1.89	771.36	0.00	0.00	0.00

Junction Results

SN	Element ID	Peak Inflow (cfs)	Peak Lateral Inflow (cfs)	Max HGL Elevation Attained (ft)	Max HGL Depth Attained (ft)	Max Surcharge Depth Attained (ft)	Min Freeboard Attained (ft)	Average HGL Elevation Attained (ft)	Average HGL Depth Attained (ft)	Time of Max HGL Occurrence (days hh:mm)	Time of Peak Flooding Occurrence (days hh:mm)	Total Flooded Volume (ac-in)	Total Time Flooded (min)
1	(100)	5.88	0.00	777.84	1.42	0.00	0.08	776.85	0.43	0 11:57	0 00:00	0.00	0.00
2	(101)	3.84	0.00	778.38	1.21	0.00	0.04	777.51	0.34	0 11:56	0 00:00	0.00	0.00
3	(102)	2.05	0.00	778.86	0.92	0.00	0.08	778.19	0.25	0 11:56	0 00:00	0.00	0.00
4	(106)	5.73	0.00	777.32	1.50	0.00	0.00	776.19	0.37	0 12:01	0 12:02	0.00	2.00
5	(107)	3.84	0.00	777.78	1.21	0.00	0.04	776.86	0.29	0 11:59	0 00:00	0.00	0.00
6	(108)	2.05	0.00	778.26	0.92	0.00	0.08	777.56	0.22	0 11:59	0 00:00	0.00	0.00
7	(112)	5.89	0.00	777.62	1.42	0.00	0.08	776.60	0.40	0 11:58	0 00:00	0.00	0.00
8	(113)	3.84	0.00	778.16	1.21	0.00	0.04	777.30	0.35	0 11:54	0 00:00	0.00	0.00
9	(114)	2.05	0.00	778.64	0.92	0.00	0.08	777.99	0.27	0 11:53	0 00:00	0.00	0.00
10	(119)	5.88	0.00	775.82	1.42	0.00	0.08	774.83	0.43	0 11:59	0 00:00	0.00	0.00
11	(120)	3.84	0.00	776.36	1.21	0.00	0.04	775.49	0.34	0 11:56	0 00:00	0.00	0.00
12	(121)	2.05	0.00	776.84	0.92	0.00	0.08	776.17	0.25	0 11:56	0 00:00	0.00	0.00
13	(125)	5.88	0.00	775.83	1.42	0.00	0.08	774.78	0.37	0 12:00	0 00:00	0.00	0.00
14	(126)	3.84	0.00	776.37	1.21	0.00	0.04	775.45	0.29	0 11:59	0 00:00	0.00	0.00
15	(127)	2.05	0.00	776.85	0.92	0.00	0.08	776.15	0.22	0 11:59	0 00:00	0.00	0.00
16	(131)	5.89	0.00	775.86	1.42	0.00	0.08	774.84	0.40	0 12:01	0 00:00	0.00	0.00
17	(132)	3.84	0.00	776.40	1.21	0.00	0.04	775.54	0.35	0 11:54	0 00:00	0.00	0.00
18	(133)	2.05	0.00	776.88	0.92	0.00	0.08	776.23	0.27	0 11:53	0 00:00	0.00	0.00
19	(137)	5.88	0.00	777.12	1.42	0.00	0.08	776.13	0.43	0 12:02	0 00:00	0.00	0.00
20	(138)	3.84	0.00	777.66	1.21	0.00	0.04	776.79	0.34	0 11:56	0 00:00	0.00	0.00
21	(139)	2.05	0.00	778.14	0.92	0.00	0.08	777.47	0.25	0 11:56	0 00:00	0.00	0.00
22	(143)	5.89	0.00	777.58	1.42	0.00	0.08	776.53	0.37	0 12:00	0 00:00	0.00	0.00
23	(144)	3.86	0.00	778.11	1.21	0.00	0.05	777.19	0.29	0 11:59	0 00:00	0.00	0.00
24	(145)	2.05	0.00	778.60	0.92	0.00	0.08	777.90	0.22	0 11:59	0 00:00	0.00	0.00
25	(149)	5.89	0.00	778.05	1.42	0.00	0.08	777.03	0.40	0 12:00	0 00:00	0.00	0.00
26	(150)	3.84	0.00	778.59	1.21	0.00	0.04	777.73	0.35	0 11:54	0 00:00	0.00	0.00
27	(151)	2.05	0.00	779.07	0.92	0.00	0.08	778.42	0.27	0 11:53	0 00:00	0.00	0.00
28	(81)	6.11	0.00	775.73	1.46	0.00	1.04	774.70	0.43	0 12:03	0 00:00	0.00	0.00
29	(82)	3.84	0.00	776.25	1.21	0.00	0.04	775.42	0.38	0 11:53	0 00:00	0.00	0.00
30	(83)	2.05	0.00	776.71	0.92	0.00	0.08	776.10	0.31	0 11:49	0 00:00	0.00	0.00
31	(87)	5.87	0.00	776.19	1.42	0.00	0.08	775.13	0.36	0 12:00	0 00:00	0.00	0.00
32	(88)	3.82	0.00	776.71	1.20	0.00	0.06	775.80	0.29	0 12:00	0 00:00	0.00	0.00
33	(89)	1.92	0.00	777.18	0.89	0.00	0.11	776.50	0.21	0 12:00	0 00:00	0.00	0.00
34	(94)	5.90	0.00	776.67	1.42	0.00	0.08	775.65	0.40	0 12:01	0 00:00	0.00	0.00
35	(95)	3.84	0.00	777.21	1.21	0.00	0.04	776.35	0.35	0 11:54	0 00:00	0.00	0.00
36	(96)	2.05	0.00	777.69	0.92	0.00	0.08	777.04	0.27	0 11:53	0 00:00	0.00	0.00
37	D02	24.48	0.00	771.00	3.06	0.00	0.79	768.93	0.99	0 12:28	0 00:00	0.00	0.00
38	D04	35.01	0.75	771.60	2.97	0.00	5.11	770.54	1.91	0 12:00	0 00:00	0.00	0.00
39	D05	32.35	1.32	772.08	3.24	0.00	3.32	770.66	1.82	0 12:00	0 00:00	0.00	0.00
40	D06	31.07	1.27	772.55	3.49	0.00	3.13	770.79	1.73	0 12:00	0 00:00	0.00	0.00
41	D07	30.09	0.00	773.03	3.66	0.00	1.50	770.95	1.58	0 12:00	0 00:00	0.00	0.00
42	D08	31.06	3.01	773.69	3.75	0.00	0.81	771.23	1.29	0 12:00	0 00:00	0.00	0.00
43	D09	25.58	2.44	773.91	3.70	0.00	1.09	771.36	1.15	0 12:00	0 00:00	0.00	0.00
44	D10	29.19	2.44	773.99	3.00	0.00	0.00	771.93	0.94	0 11:51	0 12:00	3.88	21.00
45	D11	26.75	2.44	774.36	3.10	0.00	1.14	772.21	0.95	0 12:00	0 00:00	0.00	0.00
46	D12	25.31	1.60	774.54	3.00	0.00	0.00	772.44	0.90	0 11:51	0 12:00	1.18	18.00
47	D13	23.75	1.32	775.19	3.40	0.00	0.85	772.71	0.92	0 12:00	0 00:00	0.00	0.00
48	D14	22.46	1.60	775.91	3.74	0.00	2.73	773.10	0.93	0 12:00	0 00:00	0.00	0.00
49	D15	18.15	0.89	776.22	3.88	0.00	2.08	773.28	0.94	0 12:00	0 00:00	0.00	0.00
50	D16	16.87	0.42	776.47	3.95	0.00	0.63	773.46	0.94	0 12:00	0 00:00	0.00	0.00
51	D17	17.03	1.18	776.77	3.98	0.00	0.23	773.72	0.93	0 12:02	0 00:00	0.00	0.00
52	D18	13.39	3.95	776.90	3.13	0.63	0.00	774.53	0.76	0 12:03	0 11:55	0.31	20.00
53	D19	9.43	2.44	776.91	2.86	0.86	0.00	774.73	0.68	0 12:03	0 11:52	0.39	25.00
54	D20	11.14	2.44	776.90	2.58	0.58	0.00	774.96	0.64	0 12:03	0 11:53	0.28	24.00
55	D21	16.40	3.95	776.60	2.00	0.00	0.00	775.09	0.49	0 11:53	0 12:02	3.66	19.00
56	D22	3.74	1.03	776.78	1.07	0.00	0.43	776.03	0.32	0 12:00	0 00:00	0.00	0.00
57	D23	2.71	0.42	777.14	0.88	0.00	0.62	776.54	0.28	0 12:00	0 00:00	0.00	0.00
58	D24	3.86	2.07	778.89	1.00	0.00	0.00	778.18	0.29	0 11:54	0 12:00	0.19	13.00
59	D25	1.83	1.83	780.19	0.86	0.00	0.14	779.53	0.20	0 12:00	0 00:00	0.00	0.00
60	D27	38.95	1.32	771.50	2.85	0.00	1.91	770.54	1.89	0 12:20	0 00:00	0.00	0.00
61	D28	37.77	0.94	771.93	3.21	0.00	1.99	770.66	1.94	0 12:05	0 00:00	0.00	0.00
62	D29	36.35	5.73	772.82	3.62	0.00	2.18	770.90	1.70	0 12:02	0 00:00	0.00	0.00
63	D30	28.23	3.53	773.16	3.69	0.55	0.00	771.03	1.56	0 12:03	0 11:57	0.63	29.00
64	D31	25.98	3.67	773.43	3.68	0.00	1.57	771.17	1.42	0 12:02	0 00:00	0.00	0.00
65	D32	25.72	3.81	773.52	3.50	0.50	0.00	771.29	1.27	0 12:01	0 11:48	0.58	32.00
66	D33	24.16	3.90	773.58	3.28	0.00	1.42	771.44	1.14	0 12:00	0 00:00	0.00	0.00
67	D34	26.00	4.14	773.57	3.00	0.00	0.00	771.61	1.04	0 11:48	0 12:02	5.83	27.00
68	D35	21.90	2.49	774.00	2.80	0.30	0.00	772.16	0.96	0 12:00	0 11:47	0.02	29.00
69	D36	19.44	0.80	774.41	3.00	0.00	1.87	772.38	0.97	0 12:00	0 00:00	0.00	0.00
70	D37	16.65	1.03	774.53	3.04	0.00	3.12	772.48	0.99	0 12:00	0 00:00	0.00	0.00
71	D38	16.34	5.64	774.66	2.81	0.00	1.34	772.76	0.91	0 11:59	0 00:00	0.00	0.00
72	D39	22.33	3.81	774.64	2.50	0.00	0.00	772.95	0.81	0 11:47	0 12:00	5.77	28.00
73	D40	16.77	3.81	775.60	2.68	0.00	0.90	773.69	0.77	0 12:01	0 00:00	0.00	0.00
74	D41	11.69	3.81	775.79	2.60	0.60	0.00	773.89	0.70	0 12:02	0 11:50	0.52	29.00
75	D42	9.95	3.76	775.84	2.37	0.00	1.16	774.12	0.65	0 12:01	0 00:00	0.00	0.00
76	D43	15.04	3.15	775.74	2.00	0.00	0.00	774.26	0.52	0 11:50	0 12:00	3.13	20.00
77	D44	7.00	5.12	775.86	1.98	0.00	0.02	774.34	0.46	0 12:00	0 00:00	0.00	0.00
78	D45	2.26	2.26	776.53	1.01	0.01	0.00	775.75	0.23	0 12:02	0 12:00	0.01	8.00
79	D46	6.48	1.55	776.43	1.50	0.00	0.00	775.28	0.35	0 11:59	0 12:00	0.00	1.00
80	D47	4.96	1.41	776.99	1.29	0.00	0.21	776.01	0.31	0 12:00	0 00:00	0.00	0.00
81	D48	3.56	1.27	777.23	1.15	0.00	0.10	776.36	0.28	0 12:00	0 00:00	0.00	0.00

Junction Results

SN	Element ID	Peak Inflow (cfs)	Peak Lateral Inflow (cfs)	Max HGL Elevation Attained (ft)	Max HGL Depth Attained (ft)	Max Surcharge Depth Attained (ft)	Min Freeboard Attained (ft)	Average HGL Elevation Attained (ft)	Average HGL Depth Attained (ft)	Time of Max HGL Occurrence (days hh:mm)	Time of Peak Flooding Occurrence (days hh:mm)	Total Flooded Volume (ac-in)	Total Time Flooded (min)
82	D49	2.49	1.08	777.63	1.00	0.00	0.00	776.87	0.24	0 11:59	0 12:00	0.00	3.00
83	D50	1.41	1.41	777.69	0.87	0.00	0.13	777.01	0.19	0 12:00	0 00:00	0.00	0.00
84	D51	1.60	1.60	779.07	0.78	0.00	0.22	778.48	0.19	0 12:00	0 00:00	0.00	0.00
85	D52	1.18	1.18	779.11	0.64	0.00	0.36	778.63	0.16	0 12:00	0 00:00	0.00	0.00
86	D53	1.41	1.41	777.39	0.50	0.00	1.00	777.05	0.16	0 12:00	0 00:00	0.00	0.00
87	D54	1.97	1.97	778.25	0.90	0.00	0.10	777.56	0.21	0 12:00	0 00:00	0.00	0.00
88	D55	1.79	1.79	779.16	0.84	0.00	0.16	778.52	0.20	0 12:00	0 00:00	0.00	0.00
89	D56	0.66	0.66	776.22	0.38	0.00	0.62	775.93	0.09	0 12:00	0 00:00	0.00	0.00
90	D58	4.47	4.47	771.00	1.00	0.00	0.00	770.66	0.66	0 11:52	0 12:25	4.51	144.00
91	D60	33.65	4.42	773.70	4.95	0.00	0.00	771.14	2.39	0 01:37	0 01:39	0.77	6.00
92	D61	24.81	0.89	773.72	4.82	0.02	0.00	771.15	2.25	0 01:37	0 05:59	0.06	3.00
93	RD01	4.98	4.98	776.84	1.00	0.00	0.00	776.16	0.32	0 11:49	0 12:00	0.48	20.00
94	RD02	3.10	3.10	776.34	1.00	0.00	0.00	775.61	0.27	0 11:53	0 12:00	0.16	14.00
95	RD03	2.77	2.77	776.82	1.00	0.00	0.00	776.07	0.25	0 11:57	0 12:00	0.03	6.00
96	RD04	3.10	3.10	776.32	1.00	0.00	0.00	775.58	0.26	0 11:56	0 12:00	0.08	9.00
97	RD05	2.12	2.12	776.82	1.00	0.00	0.00	776.04	0.22	0 11:59	0 12:00	0.00	2.00
98	RD06	1.93	1.93	777.30	0.96	0.00	0.04	776.55	0.21	0 12:00	0 00:00	0.00	0.00
99	RD07	2.73	2.73	776.80	1.00	0.00	0.00	776.05	0.25	0 11:56	0 12:00	0.05	9.00
100	RD08	2.96	2.96	777.30	1.00	0.00	0.00	776.56	0.26	0 11:54	0 12:00	0.13	13.00
101	RD09	3.43	3.43	777.82	1.00	0.00	0.00	777.10	0.28	0 11:53	0 12:00	0.16	13.00
102	RD10	3.43	3.43	777.01	1.00	0.00	0.00	776.29	0.28	0 11:53	0 12:00	0.16	13.00
103	RD11	2.96	2.96	776.49	1.00	0.00	0.00	775.75	0.26	0 11:54	0 12:00	0.13	13.00
104	RD12	2.73	2.73	775.99	1.00	0.00	0.00	775.24	0.25	0 11:56	0 12:00	0.05	9.00
105	RD13	2.12	2.12	776.98	1.00	0.00	0.00	776.21	0.23	0 11:59	0 12:00	0.00	1.00
106	RD14	2.12	2.12	776.46	1.00	0.00	0.00	775.68	0.22	0 11:58	0 12:00	0.01	4.00
107	RD15	3.10	3.10	775.96	1.00	0.00	0.00	775.22	0.26	0 11:56	0 12:00	0.09	9.00
108	RD16	2.77	2.77	776.97	1.00	0.00	0.00	776.23	0.26	0 11:56	0 12:00	0.06	9.00
109	RD17	3.10	3.10	776.45	1.00	0.00	0.00	775.71	0.26	0 11:54	0 12:00	0.15	12.00
110	RD18	4.98	4.98	775.95	1.00	0.00	0.00	775.26	0.31	0 11:50	0 12:00	0.45	18.00
111	RD19	4.98	4.98	777.97	1.00	0.00	0.00	777.28	0.31	0 11:50	0 12:00	0.45	18.00
112	RD20	3.10	3.10	778.47	1.00	0.00	0.00	777.73	0.26	0 11:54	0 12:00	0.15	12.00
113	RD21	2.77	2.77	778.99	1.00	0.00	0.00	778.25	0.26	0 11:56	0 12:00	0.06	9.00
114	RD22	3.10	3.10	777.37	1.00	0.00	0.00	776.63	0.26	0 11:56	0 12:00	0.16	10.00
115	RD23	2.12	2.12	777.87	1.00	0.00	0.00	777.09	0.22	0 11:58	0 12:00	0.01	4.00
116	RD24	2.12	2.12	778.39	1.00	0.00	0.00	777.62	0.23	0 11:59	0 12:00	0.00	1.00
117	RD25	2.73	2.73	777.75	1.00	0.00	0.00	777.00	0.25	0 11:56	0 12:00	0.05	9.00
118	RD26	2.96	2.96	778.25	1.00	0.00	0.00	777.51	0.26	0 11:54	0 12:00	0.13	13.00
119	RD27	3.43	3.43	778.77	1.00	0.00	0.00	778.05	0.28	0 11:53	0 12:00	0.16	13.00
120	RD29	3.43	3.43	779.20	1.00	0.00	0.00	778.48	0.28	0 11:53	0 12:00	0.16	13.00
121	RD30	2.96	2.96	778.68	1.00	0.00	0.00	777.94	0.26	0 11:54	0 12:00	0.13	13.00
122	RD31	2.73	2.73	778.18	1.00	0.00	0.00	777.43	0.25	0 11:56	0 12:00	0.05	9.00
123	RD32	2.12	2.12	778.73	1.00	0.00	0.00	777.96	0.23	0 11:59	0 12:00	0.00	1.00
124	RD33	2.12	2.12	778.21	1.00	0.00	0.00	777.43	0.22	0 11:58	0 12:00	0.01	3.00
125	RD34	3.10	3.10	777.71	1.00	0.00	0.00	776.97	0.26	0 11:56	0 12:00	0.09	9.00
126	RD35	2.77	2.77	778.27	1.00	0.00	0.00	777.53	0.26	0 11:56	0 12:00	0.06	9.00
127	RD36	3.10	3.10	777.75	1.00	0.00	0.00	777.01	0.26	0 11:54	0 12:00	0.15	12.00
128	RD37	4.98	4.98	777.25	4.00	0.00	0.00	776.54	3.29	0 11:50	0 12:00	0.45	18.00

Pipe Input

SN	Element ID	Length (ft)	Inlet Invert Elevation (ft)	Inlet Invert Offset (ft)	Outlet Invert Elevation (ft)	Outlet Invert Offset (ft)	Total Drop (ft)	Average Slope (%)	Pipe Shape	Pipe Diameter or Height (in)	Pipe Width (in)	Manning's Roughness	Entrance Losses	Exit/Bend Losses	Additional Losses	Initial Flow (cfs)	Flap Gate	No. of Barrels
1	Link-01	49.90	771.00	2.25	767.00	-1.00	4.00	8.0200	CIRCULAR	12.000	12.000	0.0150	0.5000	0.5000	0.0000	0.00	No	1
2	Link-02	30.20	768.90	0.00	768.75	0.00	0.15	0.5000	CIRCULAR	12.000	12.000	0.0150	0.5000	0.5000	0.0000	0.00	No	1
3	Link-03	54.17	767.94	0.00	767.40	3.00	0.54	1.0000	CIRCULAR	24.000	24.000	0.0150	0.5000	0.5000	0.0000	0.00	No	1
4	P(100)	49.86	776.95	0.00	776.45	0.25	0.50	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
5	P(101)	52.12	777.72	0.00	777.20	0.25	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
6	P(102)	5.00	777.77	0.00	777.72	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
7	P(103)	5.00	777.25	0.00	777.20	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
8	P(104)	5.00	776.75	0.00	776.70	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
9	P(105)	90.03	774.40	0.00	773.50	4.30	0.90	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
10	P(106)	49.86	775.15	0.00	774.65	0.25	0.50	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
11	P(107)	52.12	775.92	0.00	775.40	0.25	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
12	P(108)	5.00	775.97	0.00	775.92	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
13	P(109)	5.00	775.45	0.00	775.40	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
14	P(110)	5.00	774.95	0.00	774.90	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
15	P(111)	91.03	774.41	0.00	773.50	3.75	0.91	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
16	P(112)	49.86	775.16	0.00	774.66	0.25	0.50	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
17	P(113)	52.12	775.93	0.00	775.41	0.25	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
18	P(114)	5.00	775.98	0.00	775.93	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
19	P(115)	5.00	775.46	0.00	775.41	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
20	P(116)	5.00	774.96	0.00	774.91	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
21	P(117)	94.06	774.44	0.00	773.50	3.20	0.94	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
22	P(118)	49.86	775.19	0.00	774.69	0.25	0.50	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
23	P(119)	52.12	775.96	0.00	775.44	0.25	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
24	P(120)	5.00	776.01	0.00	775.96	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
25	P(121)	5.00	775.49	0.00	775.44	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
26	P(122)	5.00	774.99	0.00	774.94	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
27	P(123)	120.37	775.70	0.00	774.50	2.65	1.20	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
28	P(124)	49.86	776.45	0.00	775.95	0.25	0.50	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
29	P(125)	52.12	777.22	0.00	776.70	0.25	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
30	P(126)	5.00	777.27	0.00	777.22	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
31	P(127)	5.00	776.75	0.00	776.70	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
32	P(128)	5.00	776.25	3.00	776.20	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
33	P(129)	115.56	776.16	0.00	775.00	2.08	1.16	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
34	P(130)	49.86	776.90	0.00	776.41	0.25	0.49	0.9800	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
35	P(131)	52.12	777.68	0.00	777.16	0.26	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
36	P(132)	5.00	777.73	0.00	777.68	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
37	P(133)	5.03	777.21	0.00	777.16	0.26	0.05	0.9900	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
38	P(134)	5.00	776.71	0.00	776.66	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
39	P(135)	113.42	776.63	0.00	775.50	2.03	1.13	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
40	P(136)	49.86	777.38	0.00	776.88	0.25	0.50	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
41	P(137)	52.12	778.15	0.00	777.63	0.25	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
42	P(138)	5.00	778.20	0.00	778.15	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
43	P(139)	5.00	777.68	0.00	777.63	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
44	P(140)	5.00	777.18	0.00	777.13	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
45	P(15)	58.56	770.00	0.00	768.50	0.50	1.50	2.5600	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
46	P(16)	123.16	769.37	0.00	769.06	0.00	0.31	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
47	P(16) (1)	226.84	769.94	0.00	769.37	0.00	0.57	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
48	P(17)	110.00	770.21	0.00	769.94	0.00	0.27	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
49	P(18)	110.00	770.99	0.00	770.21	0.00	0.78	0.7100	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
50	P(19)	110.00	771.26	0.00	770.99	0.00	0.27	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
51	P(20)	110.00	771.54	0.00	771.26	0.00	0.28	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
52	P(23)	192.59	773.77	0.00	773.29	0.50	0.48	0.2500	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
53	P(24)	110.00	774.05	0.00	773.77	0.00	0.28	0.2500	CIRCULAR	24.000	24.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
54	P(25)	110.00	774.32	0.00	774.05	0.00	0.27	0.2500	CIRCULAR	24.000	24.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
55	P(26)	110.00	774.60	0.00	774.32	0.00	0.28	0.2500	CIRCULAR	24.000	24.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
56	P(27)	121.80	775.71	0.00	775.10	0.50	0.61	0.5000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
57	P(28)	110.16	776.26	0.00	775.71	0.00	0.55	0.5000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
58	P(29)	113.60	777.89	0.00	776.76	0.50	1.13	0.9900	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
59	P(30)	144.00	779.33	0.00	777.89	0.00	1.44	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
60	P(31)	58.17	768.65	0.00	768.50	0.50	0.15	0.2600	CIRCULAR	48.000	48.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
61	P(32)	30.00	768.72	0.00	768.65	0.00	0.07	0.2300	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
62	P(33)	191.79	769.20	0.00	768.72	0.00	0.48	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
63	P(34)	110.00	769.47	0.00	769.20	0.00	0.27	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
64	P(35)	110.00	769.75	0.00	769.47	0.00	0.28	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
65	P(36)	110.00	770.02	0.00	769.75	0.00	0.27	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
66	P(37)	110.00	770.30	0.00	770.02	0.00	0.28	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
67	P(38)	110.00	770.57	0.00	770.30	0.00	0.27	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
68	P(39)	50.09	771.20	0.00	771.07	0.50	0.13	0.2600	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
69	P(39) (1)	84.79	771.41	0.00	771.20	0.00	0.21	0.2500	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
70	P(40)	30.63	771.49	0.00	771.41	0.00	0.08	0.2600	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
71	P(41)	145.53	771.85	0.00	771.49	0.00	0.36	0.2500	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
72	P(42)	115.67	772.14	0.00	771.85	0.00	0.29	0.2500	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
73	P(43)	110.00	772.92	0.00	772.64	0.50	0.28	0.2500	CIRCULAR	24.000	24.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
74	P(44)	110.00	773.19	0.00	772.92	0.00	0.27	0.2500	CIRCULAR	24.000	24.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
75	P(45)	110.00	773.47	0.00	773.19	0.00	0.28	0.2500	CIRCULAR	24.000	24.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
76	P(46)	110.00	773.74	0.00	773.47	0.00	0.27	0.2500	CIRCULAR	24.000	24.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
77	P(47)	55.00	773.88	0.00	773.74	0.00	0.14	0.2500	CIRCULAR	24.000	24.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
78	P(48)	255.74	775.52	0.00	774.88	1.00	0.64	0.2500	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
79	P(49)	100.80	771.79	0.00	771.54	0.00	0.25	0.2500	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
80	P(50)	152.05	772.17	0.00	771.79	0.00	0.38	0.2500	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
81	P(51)	108.00	776.89	0.00	775.81	3.64	1.08	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
82	P(53)	70.60	772.52	0.00	772.34	0.00	0.18	0.2500	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1

Pipe Input

SN	Element ID	Length (ft)	Inlet Invert Elevation (ft)	Inlet Invert Offset (ft)	Outlet Invert Elevation (ft)	Outlet Invert Offset (ft)	Total Drop (ft)	Average Slope (%)	Pipe Shape	Pipe Diameter or Height (in)	Pipe Width (in)	Manning's Roughness	Entrance Losses	Exit/Bend Losses	Additional Losses	Initial Flow (cfs)	Flap Gate	No. of Barrels
83	P(54)	117.00	778.47	0.00	777.30	4.96	1.17	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
84	P(55)	163.40	778.29	0.00	776.65	5.16	1.64	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
85	P(56)	161.45	774.93	0.00	773.31	1.90	1.62	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
86	P(57)	76.76	775.70	0.00	774.93	0.00	0.77	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
87	P(58)	13.14	776.08	0.00	775.95	0.25	0.13	0.9900	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
88	P(59)	29.92	776.63	0.00	776.33	0.25	0.30	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
89	P(60)	13.28	776.82	0.00	776.63	0.00	0.19	1.4300	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
90	P(61)	52.97	768.63	0.00	768.50	0.50	0.13	0.2500	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
91	P(62)	82.14	768.83	-0.01	768.63	0.00	0.20	0.2400	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
92	P(63)	90.00	769.05	-0.01	768.83	-0.01	0.22	0.2400	CIRCULAR	36.000	36.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
93	P(64)	108.60	772.79	0.00	772.52	0.00	0.27	0.2500	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
94	P(65)	67.82	778.32	0.00	777.64	5.47	0.68	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
95	P(66)	82.14	777.35	0.00	775.71	7.08	1.64	2.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
96	P(67)	46.08	773.84	-2.00	772.92	4.20	0.92	2.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
97	P(68)	69.52	772.34	0.00	772.17	0.00	0.17	0.2400	CIRCULAR	30.000	30.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
98	P(69)	127.13	774.27	0.00	773.00	3.06	1.27	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
99	P(70)	52.12	775.04	0.00	774.52	0.25	0.52	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
100	P(71)	49.86	775.79	0.00	775.29	0.25	0.50	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
101	P(72)	5.00	775.84	0.00	775.79	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
102	P(73)	5.00	775.34	0.00	775.29	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
103	P(74)	5.00	775.82	0.00	775.77	1.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
104	P(75)	126.56	774.77	0.00	773.50	3.29	1.27	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
105	P(76)	49.86	775.51	0.00	775.02	0.25	0.49	0.9800	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
106	P(77)	52.12	776.29	0.00	775.77	0.26	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
107	P(78)	5.00	776.34	0.00	776.29	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
108	P(79)	5.00	775.82	0.00	775.77	0.26	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
109	P(80)	5.00	775.32	0.00	775.27	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
110	P(81)	125.15	775.25	0.00	774.00	2.74	1.25	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
111	P(82)	49.86	776.00	0.00	775.50	0.25	0.50	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
112	P(83)	52.12	776.77	0.00	776.25	0.25	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
113	P(84)	5.00	776.82	0.00	776.77	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
114	P(85)	5.00	776.30	0.00	776.25	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
115	P(86)	5.00	775.80	0.00	775.75	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
116	P(87)	92.04	776.42	0.00	775.50	2.71	0.92	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
117	P(88)	49.86	777.17	0.00	776.67	0.25	0.50	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
118	P(89)	52.12	777.94	0.00	777.42	0.25	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
119	P(90)	5.00	777.99	0.00	777.94	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
120	P(91)	5.00	777.47	0.00	777.42	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
121	P(92)	5.00	776.97	0.00	776.92	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
122	P(93)	154.50	775.82	0.00	774.27	0.50	1.55	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
123	P(94)	49.86	776.57	0.00	776.07	0.25	0.50	1.0000	CIRCULAR	15.000	15.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
124	P(95)	52.12	777.34	0.00	776.82	0.25	0.52	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
125	P(96)	5.00	777.39	0.00	777.34	0.00	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
126	P(97)	5.00	776.87	0.00	776.82	0.25	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
127	P(98)	5.00	776.37	0.00	776.32	0.50	0.05	1.0000	CIRCULAR	12.000	12.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1
128	P(99)	137.40	776.20	0.00	774.82	0.50	1.38	1.0000	CIRCULAR	18.000	18.000	0.0120	0.5000	0.5000	0.0000	0.00	No	1

Pipe Results

SN	Element ID	Peak Flow (cfs)	Time of Peak Flow Occurrence (days hh:mm)	Design Flow Capacity (cfs)	Peak Flow/ Design Flow Ratio	Peak Flow Velocity (ft/sec)	Travel Time (min)	Peak Flow Depth (ft)	Peak Flow Depth/ Total Depth Ratio	Total Time Surcharged (min)	Froude Number	Reported Condition
1	Link-01	32.45	0 06:08	7.57	4.29	50.00	0.02	1.00	1.00	8.00		SURCHARGED
2	Link-02	33.64	0 01:39	2.18	15.46	45.32	0.01	1.00	1.00	1054.00		SURCHARGED
3	Link-03	24.48	0 12:28	19.58	1.25	8.01	0.11	1.87	0.94	0.00		> CAPACITY
4	P(100)	3.82	0 11:54	7.01	0.55	3.27	0.25	1.19	0.95	0.00		Calculated
5	P(101)	2.04	0 11:53	3.86	0.53	2.92	0.30	0.94	0.94	0.00		Calculated
6	P(102)	2.05	0 11:53	3.86	0.53	2.65	0.03	0.96	0.96	0.00		Calculated
7	P(103)	1.80	0 11:54	3.86	0.47	2.78	0.03	0.98	0.98	0.00		Calculated
8	P(104)	2.06	0 11:56	3.86	0.53	2.94	0.03	0.96	0.96	0.00		Calculated
9	P(105)	5.87	0 11:59	11.38	0.52	4.26	0.35	1.09	0.73	0.00		Calculated
10	P(106)	3.82	0 11:56	7.01	0.55	3.18	0.26	1.19	0.95	0.00		Calculated
11	P(107)	2.04	0 11:56	3.86	0.53	2.74	0.32	0.94	0.94	0.00		Calculated
12	P(108)	2.05	0 11:56	3.86	0.53	2.65	0.03	0.96	0.96	0.00		Calculated
13	P(109)	1.98	0 11:54	3.86	0.51	2.87	0.03	0.98	0.98	0.00		Calculated
14	P(110)	2.29	0 11:50	3.86	0.59	3.15	0.03	0.96	0.96	0.00		Calculated
15	P(111)	5.87	0 12:00	11.38	0.52	4.26	0.36	1.09	0.73	0.00		Calculated
16	P(112)	3.82	0 11:59	7.01	0.55	3.18	0.26	1.19	0.95	0.00		Calculated
17	P(113)	2.04	0 11:59	3.86	0.53	2.79	0.31	0.94	0.94	0.00		Calculated
18	P(114)	2.05	0 11:59	3.86	0.53	2.65	0.03	0.96	0.96	0.00		Calculated
19	P(115)	1.91	0 11:58	3.86	0.49	2.82	0.03	0.98	0.98	0.00		Calculated
20	P(116)	2.29	0 11:56	3.86	0.59	3.06	0.03	0.96	0.96	0.00		Calculated
21	P(117)	5.87	0 11:59	11.38	0.52	4.26	0.37	1.09	0.73	0.00		Calculated
22	P(118)	3.82	0 11:54	7.01	0.55	3.27	0.25	1.19	0.95	0.00		Calculated
23	P(119)	2.04	0 11:53	3.86	0.53	2.92	0.30	0.94	0.94	0.00		Calculated
24	P(120)	2.05	0 11:53	3.86	0.53	2.65	0.03	0.96	0.96	0.00		Calculated
25	P(121)	1.80	0 11:54	3.86	0.47	2.78	0.03	0.98	0.98	0.00		Calculated
26	P(122)	2.07	0 11:56	3.86	0.54	2.94	0.03	0.96	0.96	0.00		Calculated
27	P(123)	5.87	0 12:01	11.36	0.52	4.26	0.47	1.09	0.73	0.00		Calculated
28	P(124)	3.82	0 11:56	7.01	0.55	3.18	0.26	1.19	0.95	0.00		Calculated
29	P(125)	2.04	0 11:56	3.86	0.53	2.74	0.32	0.94	0.94	0.00		Calculated
30	P(126)	2.05	0 11:56	3.86	0.53	2.65	0.03	0.96	0.96	0.00		Calculated
31	P(127)	1.98	0 11:54	3.86	0.51	2.87	0.03	0.98	0.98	0.00		Calculated
32	P(128)	2.29	0 11:50	3.86	0.59	3.16	0.03	0.96	0.96	0.00		Calculated
33	P(129)	5.89	0 12:00	11.40	0.52	4.27	0.45	1.09	0.73	0.00		Calculated
34	P(130)	3.85	0 11:59	6.94	0.55	3.19	0.26	1.19	0.95	0.00		Calculated
35	P(131)	2.04	0 11:59	3.86	0.53	2.82	0.31	0.94	0.94	0.00		Calculated
36	P(132)	2.05	0 11:59	3.86	0.53	2.65	0.03	0.96	0.96	0.00		Calculated
37	P(133)	1.93	0 11:58	3.85	0.50	2.82	0.03	0.98	0.98	0.00		Calculated
38	P(134)	2.29	0 11:56	3.86	0.59	3.07	0.03	0.96	0.96	0.00		Calculated
39	P(135)	5.87	0 12:00	11.36	0.52	4.26	0.44	1.09	0.73	0.00		Calculated
40	P(136)	3.82	0 11:54	7.01	0.55	3.28	0.25	1.19	0.95	0.00		Calculated
41	P(137)	2.04	0 11:53	3.86	0.53	2.92	0.30	0.94	0.94	0.00		Calculated
42	P(138)	2.05	0 11:53	3.86	0.53	2.65	0.03	0.96	0.96	0.00		Calculated
43	P(139)	1.80	0 11:54	3.86	0.47	2.78	0.03	0.98	0.98	0.00		Calculated
44	P(140)	2.07	0 11:56	3.86	0.54	2.94	0.03	0.96	0.96	0.00		Calculated
45	P(15)	2.98	0 11:55	6.18	0.48	3.79	0.26	1.00	1.00	143.00		SURCHARGED
46	P(16)	30.09	0 11:52	36.25	0.83	4.26	0.48	3.00	1.00	28.00		SURCHARGED
47	P(16) (1)	30.09	0 11:52	36.22	0.83	4.26	0.89	3.00	1.00	26.00		SURCHARGED
48	P(17)	24.83	0 12:12	35.80	0.69	3.51	0.52	3.00	1.00	26.00		SURCHARGED
49	P(18)	22.33	0 12:12	60.85	0.37	3.37	0.54	3.00	1.00	21.00		SURCHARGED
50	P(19)	26.75	0 12:00	35.80	0.75	3.78	0.49	3.00	1.00	19.00		SURCHARGED
51	P(20)	20.52	0 12:09	36.46	0.56	3.04	0.60	3.00	1.00	18.00		SURCHARGED
52	P(23)	12.93	0 12:15	22.18	0.58	3.82	0.84	2.50	1.00	20.00		SURCHARGED
53	P(24)	10.43	0 12:15	12.36	0.84	3.33	0.55	2.00	1.00	24.00		SURCHARGED
54	P(25)	8.17	0 11:51	12.14	0.67	2.72	0.67	2.00	1.00	24.00		SURCHARGED
55	P(26)	9.39	0 12:03	12.36	0.76	2.99	0.61	2.00	1.00	19.00		SURCHARGED
56	P(27)	3.71	0 12:00	8.05	0.46	2.93	0.69	1.28	0.86	0.00		Calculated
57	P(28)	2.70	0 12:00	8.04	0.34	2.46	0.75	0.97	0.65	0.00		Calculated
58	P(29)	2.29	0 11:54	3.85	0.59	3.49	0.54	0.78	0.78	0.00		Calculated
59	P(30)	1.81	0 12:00	3.86	0.47	2.37	1.01	0.93	0.93	0.00		Calculated
60	P(31)	38.95	0 12:02	79.02	0.49	5.07	0.19	2.86	0.72	0.00		Calculated
61	P(32)	37.77	0 12:02	34.90	1.08	5.45	0.09	2.93	0.98	0.00		> CAPACITY
62	P(33)	36.36	0 12:03	36.15	1.01	5.14	0.62	3.00	1.00	26.00		SURCHARGED
63	P(34)	27.32	0 12:10	35.80	0.76	3.87	0.47	3.00	1.00	32.00		SURCHARGED
64	P(35)	25.85	0 11:52	36.46	0.71	3.66	0.50	3.00	1.00	32.00		SURCHARGED
65	P(36)	22.23	0 11:47	35.80	0.62	3.16	0.58	3.00	1.00	32.00		SURCHARGED
66	P(37)	24.20	0 11:48	36.46	0.66	3.42	0.54	3.00	1.00	30.00		SURCHARGED
67	P(38)	19.31	0 11:48	35.80	0.54	2.84	0.65	3.00	1.00	27.00		SURCHARGED
68	P(39)	21.90	0 12:00	22.64	0.97	4.46	0.19	2.50	1.00	27.00		SURCHARGED
69	P(39) (1)	19.41	0 12:00	22.11	0.88	3.95	0.36	2.50	1.00	29.00		SURCHARGED
70	P(40)	16.04	0 11:47	22.71	0.71	3.27	0.16	2.50	1.00	30.00		SURCHARGED
71	P(41)	15.72	0 11:47	22.10	0.71	3.20	0.76	2.50	1.00	30.00		SURCHARGED
72	P(42)	11.18	0 12:15	22.25	0.50	2.36	0.82	2.50	1.00	28.00		SURCHARGED
73	P(43)	16.77	0 12:01	12.36	1.36	5.34	0.34	2.00	1.00	28.00		SURCHARGED
74	P(44)	9.65	0 12:11	12.14	0.79	3.07	0.60	2.00	1.00	29.00		SURCHARGED
75	P(45)	9.87	0 11:50	12.36	0.80	3.14	0.58	2.00	1.00	25.00		SURCHARGED
76	P(46)	5.30	0 12:02	12.14	0.44	1.69	1.08	2.00	1.00	20.00		SURCHARGED
77	P(47)	7.01	0 12:00	12.36	0.57	2.23	0.41	1.99	1.00	0.00		Calculated
78	P(48)	2.01	0 12:06	1.93	1.04	2.60	1.64	0.99	0.99	0.00		> CAPACITY
79	P(49)	23.75	0 12:00	22.13	1.07	4.84	0.35	2.50	1.00	24.00		SURCHARGED
80	P(50)	22.48	0 12:00	22.21	1.01	4.58	0.55	2.50	1.00	25.00		SURCHARGED
81	P(51)	1.38	0 12:00	11.38	0.12	3.30	0.55	0.43	0.29	0.00		Calculated

Pipe Results

SN	Element ID	Peak Flow (cfs)	Time of Peak Flow Occurrence (days hh:mm)	Design Flow Capacity (cfs)	Peak Flow/ Design Flow Ratio	Peak Flow Velocity (ft/sec)	Travel Time (min)	Peak Flow Depth (ft)	Peak Flow Depth/ Total Depth Ratio	Total Time Surcharged (min)	Froude Number	Reported Condition
82	P(53)	16.87	0 12:08	22.44	0.75	3.44	0.34	2.50	1.00	26.00		SURCHARGED
83	P(54)	1.14	0 12:00	3.86	0.29	2.94	0.66	0.50	0.51	0.00		Calculated
84	P(55)	1.54	0 12:00	3.87	0.40	3.08	0.88	0.60	0.61	0.00		Calculated
85	P(56)	6.30	0 11:59	11.40	0.55	3.90	0.69	1.30	0.87	0.00		Calculated
86	P(57)	4.94	0 12:00	11.40	0.43	2.89	0.44	1.39	0.93	0.00		Calculated
87	P(58)	3.55	0 12:00	6.96	0.51	3.27	0.07	1.09	0.87	0.00		Calculated
88	P(59)	2.29	0 11:59	3.86	0.59	2.98	0.17	0.95	0.95	0.00		Calculated
89	P(60)	1.41	0 12:00	4.62	0.31	1.85	0.12	0.94	0.94	0.00		Calculated
90	P(61)	35.00	0 12:00	35.79	0.98	5.58	0.16	2.90	0.97	0.00		Calculated
91	P(62)	32.35	0 11:59	36.53	0.89	4.58	0.30	2.98	0.99	0.00		Calculated
92	P(63)	31.07	0 11:58	35.72	0.87	4.40	0.34	3.00	1.00	27.00		SURCHARGED
93	P(64)	16.68	0 12:08	22.16	0.75	3.40	0.53	2.50	1.00	27.00		SURCHARGED
94	P(65)	1.77	0 12:00	3.86	0.46	3.23	0.35	0.66	0.66	0.00		Calculated
95	P(66)	1.95	0 12:00	5.45	0.36	3.58	0.38	0.65	0.66	0.00		Calculated
96	P(67)	0.65	0 12:00	9.72	0.07	3.68	0.21	0.27	0.28	0.00		Calculated
97	P(68)	18.20	0 12:06	21.97	0.83	3.71	0.31	2.50	1.00	25.00		SURCHARGED
98	P(69)	6.11	0 12:03	11.37	0.54	4.31	0.49	1.12	0.75	0.00		Calculated
99	P(70)	3.82	0 11:53	6.99	0.55	3.28	0.26	1.21	0.97	0.00		Calculated
100	P(71)	2.04	0 11:49	3.87	0.53	2.94	0.28	0.94	0.94	0.00		Calculated
101	P(72)	2.05	0 11:49	3.86	0.53	2.65	0.03	0.96	0.96	0.00		Calculated
102	P(73)	1.80	0 11:53	3.86	0.47	2.63	0.03	0.98	0.98	0.00		Calculated
103	P(74)	2.29	0 11:57	3.86	0.59	3.49	0.02	0.78	0.78	0.00		Calculated
104	P(75)	5.86	0 12:00	11.40	0.51	4.26	0.50	1.09	0.73	0.00		Calculated
105	P(76)	3.80	0 12:00	6.94	0.55	3.16	0.26	1.18	0.95	0.00		Calculated
106	P(77)	1.90	0 12:00	3.86	0.49	2.78	0.31	0.91	0.92	0.00		Calculated
107	P(78)	1.92	0 12:00	3.86	0.50	2.54	0.03	0.92	0.93	0.00		Calculated
108	P(79)	2.00	0 11:59	3.86	0.52	2.86	0.03	0.97	0.97	0.00		Calculated
109	P(80)	2.29	0 11:56	3.86	0.59	3.11	0.03	0.96	0.96	0.00		Calculated
110	P(81)	5.87	0 12:01	11.37	0.52	4.26	0.49	1.09	0.73	0.00		Calculated
111	P(82)	3.82	0 11:54	7.01	0.55	3.28	0.25	1.19	0.95	0.00		Calculated
112	P(83)	2.04	0 11:53	3.86	0.53	2.92	0.30	0.94	0.94	0.00		Calculated
113	P(84)	2.05	0 11:53	3.86	0.53	2.65	0.03	0.96	0.96	0.00		Calculated
114	P(85)	1.80	0 11:54	3.86	0.47	2.78	0.03	0.98	0.98	0.00		Calculated
115	P(86)	2.07	0 11:56	3.86	0.54	2.94	0.03	0.96	0.96	0.00		Calculated
116	P(87)	5.87	0 11:57	11.38	0.52	4.22	0.36	1.33	0.90	0.00		Calculated
117	P(88)	3.82	0 11:56	7.01	0.55	3.18	0.26	1.19	0.95	0.00		Calculated
118	P(89)	2.04	0 11:56	3.86	0.53	2.74	0.32	0.94	0.94	0.00		Calculated
119	P(90)	2.05	0 11:56	3.86	0.53	2.65	0.03	0.96	0.96	0.00		Calculated
120	P(91)	1.98	0 11:54	3.86	0.51	2.87	0.03	0.98	0.98	0.00		Calculated
121	P(92)	2.29	0 11:50	3.86	0.59	3.15	0.03	0.96	0.96	0.00		Calculated
122	P(93)	5.57	0 11:58	11.40	0.49	3.19	0.81	1.49	1.00	2.00		SURCHARGED
123	P(94)	3.82	0 11:59	7.01	0.55	3.14	0.26	1.22	0.98	0.00		Calculated
124	P(95)	2.04	0 11:59	3.86	0.53	2.79	0.31	0.94	0.94	0.00		Calculated
125	P(96)	2.05	0 11:59	3.86	0.53	2.65	0.03	0.96	0.96	0.00		Calculated
126	P(97)	1.91	0 11:58	3.86	0.49	2.82	0.03	0.98	0.98	0.00		Calculated
127	P(98)	2.29	0 11:56	3.86	0.59	3.05	0.03	0.99	1.00	2.00		SURCHARGED
128	P(99)	5.87	0 11:58	11.40	0.52	3.45	0.66	1.46	0.97	0.00		Calculated

Storage Nodes

Storage Node : POND

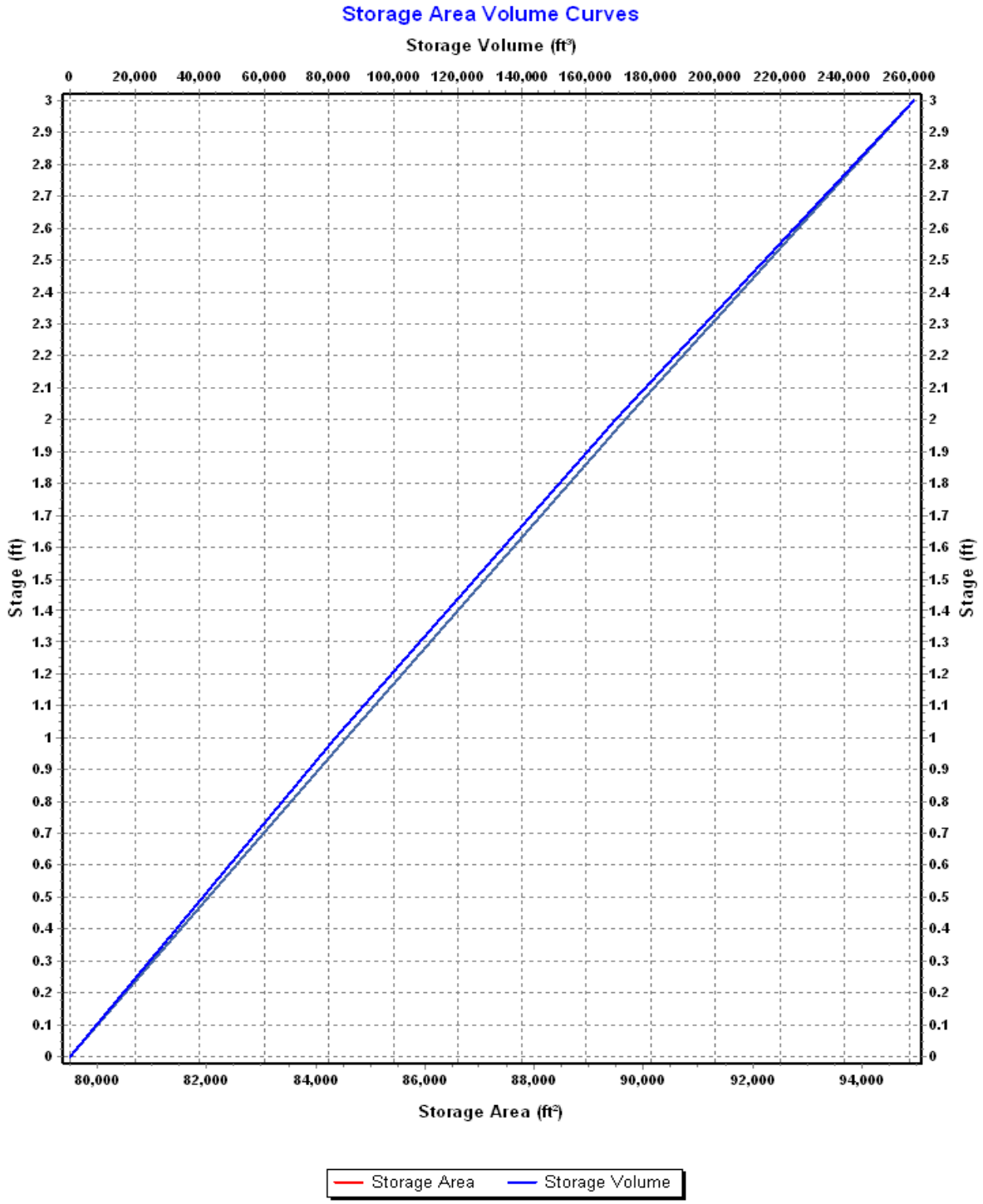
Input Data

Invert Elevation (ft) 768.00
Max (Rim) Elevation (ft) 772.00
Max (Rim) Offset (ft) 4.00
Initial Water Elevation (ft) 768.00
Initial Water Depth (ft) 0.00
Ponded Area (ft²) 100290.00
Evaporation Loss 0.00

Storage Area Volume Curves

Storage Curve : Storage-POND

Stage (ft)	Storage Area (ft²)	Storage Volume (ft³)
0	79508	0.000
1	84543	82025.50
2	89680	169137.00
3	94939	261446.50


Storage Area Volume Curves
Storage Volume (ft³)
0
20,000
40,000
60,000
80,000
100,000
120,000
140,000
160,000
180,000
200,000
220,000
240,000
260,000
Stage (ft)
3
2.9
2.8
2.7
2.6
2.5
2.4
2.3
2.2
2.1
2
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
80,000
82,000
84,000
86,000
88,000
90,000
92,000
94,000
Storage Area (ft²)
Storage Area
Storage Volume

Storage Node : POND (continued)

Outflow Weirs

SN	Element ID	Weir Type	Flap Gate	Crest Elevation (ft)	Crest Offset (ft)	Length (ft)	Weir Total Height (ft)	Discharge Coefficient
1	Weir-RIM	Rectangular	No	770.50	2.50	8.00	1.00	3.33
2	Weir-Spillway	Rectangular	No	771.25	3.25	20.00	0.60	3.33

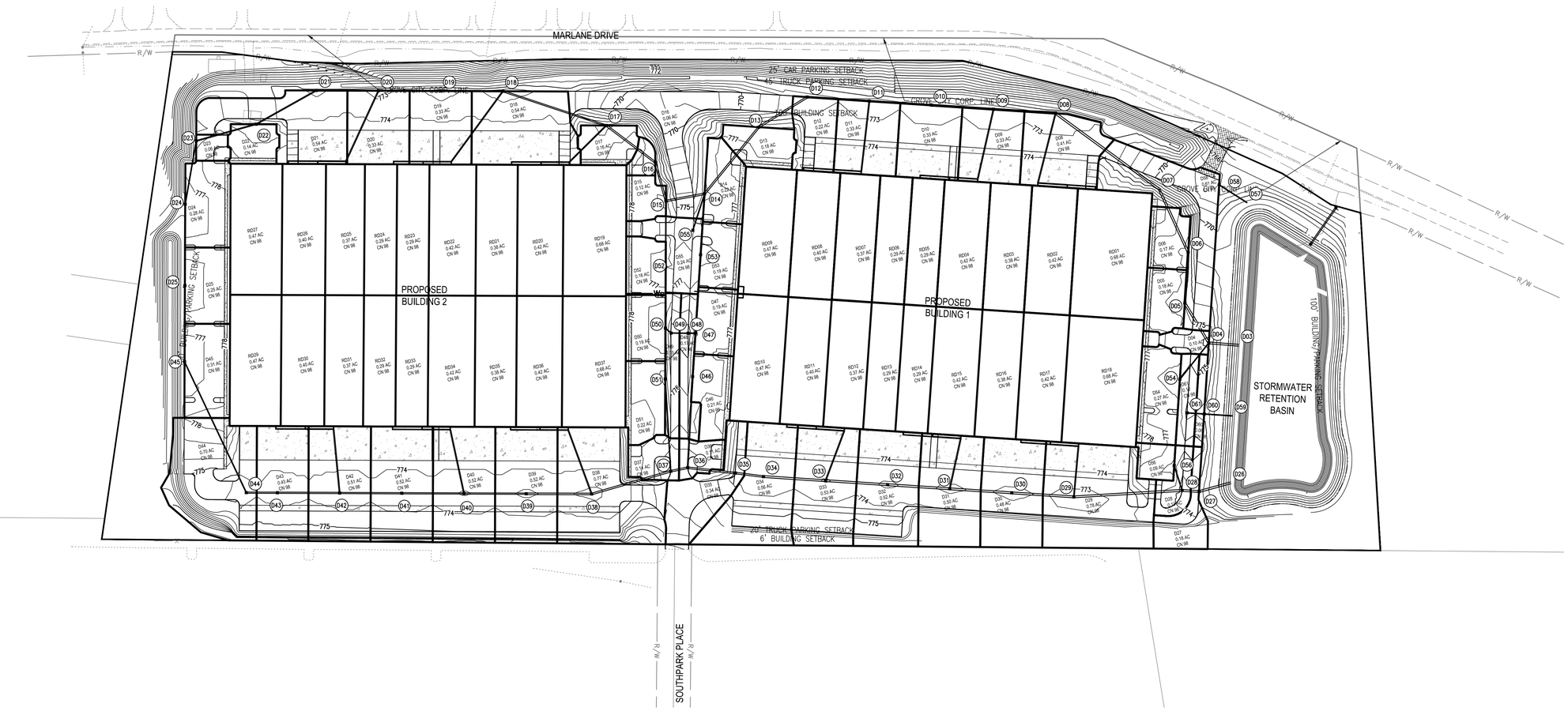
Outflow Orifices

SN	Element ID	Orifice Type	Orifice Shape	Flap Gate	Circular Orifice Diameter (in)	Rectangular Orifice Height (in)	Rectangular Orifice Width (in)	Orifice Invert Elevation (ft)	Orifice Coefficient
1	Orifice-WQv	Side	CIRCULAR	No	6.10			768.00	0.61

Output Summary Results

Peak Inflow (cfs) 88.19
Peak Lateral Inflow (cfs) 6.98
Peak Outflow (cfs) 27.03
Peak Exfiltration Flow Rate (cfm) 0.00
Max HGL Elevation Attained (ft) 771.42
Max HGL Depth Attained (ft) 3.42
Average HGL Elevation Attained (ft) 770.35
Average HGL Depth Attained (ft) 2.35
Time of Max HGL Occurrence (days hh:mm) 0 12:28
Total Exfiltration Volume (1000-ft³) 0.000
Total Flooded Volume (ac-in) 0
Total Time Flooded (min) 0
Total Retention Time (sec) 0.00

Appendix E. Post Development Map



0 100 200
HORIZONTAL SCALE IN FEET

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DEVELOPMENT PLANS FOR

PROLOGIS SOUTH PARK

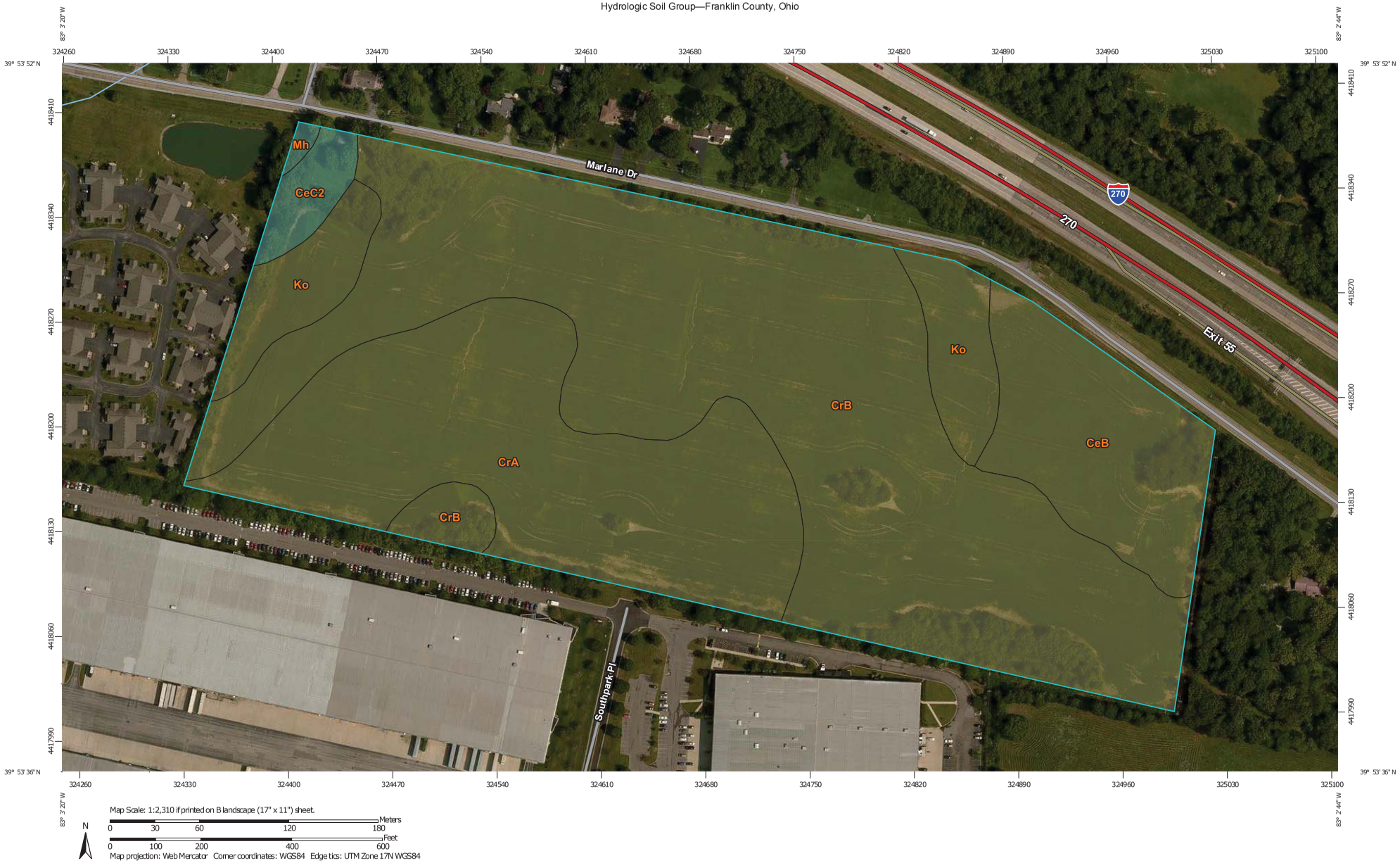
POST DEVELOPMENT TRIBUTARY MAP — APPENDIX E

NO.	PLAN ISSUE/REVISION	DATE
1	REVISED PER CITY COMMENTS	10/22/2015

CITY PROJECT NUMBER: 201509280070 | JOB NUMBER: 15037.01
DRAWN: AES | CHECKED: AES | DATE: 09/28/2015

9/28/2015 11:08 AM J:\2015\15037 prologis capital park south\01\dwg\exhibits\15037.01_post development trib map.dwg cspencer

Appendix F. Soils Classification



Map Scale: 1:2,310 if printed on B landscape (17" x 11") sheet.

N

Meters: 0 30 60 120 180

Feet: 0 100 200 400 600

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 17N WGS84

MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Rating Polygons

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Lines

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Points

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

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 1:15,800.

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: http://websoilsurvey.nrcs.usda.gov
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: Franklin County, Ohio
Survey Area Data: Version 12, Sep 18, 2014

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Aug 4, 2014—Aug 27, 2014

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.

Hydrologic Soil Group

Hydrologic Soil Group— Summary by Map Unit — Franklin County, Ohio (OH049)				
Map unit symbol	**Map unit name**	**Rating**	**Acres in AOI**	**Percent of AOI**
CeB	Celina silt loam, 2 to 6 percent slopes	C/D	4.5	11.0%
CeC2	Celina silt loam, 6 to 12 percent slopes, eroded	C	0.8	1.9%
CrA	Crosby silt loam, Southern Ohio Till Plain, 0 to 2 percent slopes	C/D	10.8	26.6%
CrB	Crosby silt loam, Southern Ohio Till Plain, 2 to 6 percent slopes	C/D	21.7	53.1%
Ko	Kokomo silty clay loam, 0 to 2 percent slopes	C/D	2.9	7.1%
Mh	Medway silt loam, occasionally flooded	C	0.1	0.2%
Totals for Area of Interest			**40.8**	**100.0%**

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: *None Specified*

Tie-break Rule: Higher