

**REVISED  
HYDRAULIC ANALYSIS  
FOR  
FORBESTOWN DITCH TO PIPELINE  
REPLACEMENT PROJECT**

**Prepared for:  
North Yuba Water District  
8691 La Porte Road  
Brownsville, California 95919**



**111 Mission Ranch Blvd. Ste. 100  
Chico, C90A 95926**

**August, 2019**

Prepared by or under the supervision of:

Richard D Guevarra, PE  
RCE 82860



## **Project Description**

Forbestown Ditch is located in Butte and Yuba Counties and begins near the community of Woodleaf. The project includes replacing the existing ditch with 36-inch HDPE ADS N-12 to improve the existing conveyance system and increase its efficiency by reducing raw water loss and minimize water contamination. The ditch extends approximately 10 miles that begins at Woodleaf Penstock South Fork gauging station 14 (SF 14) and ends at Forbestown Water Treatment Plant. See Exhibit A for site map.

The design flow of 24 cfs (steady flow) will be used in the analysis. This flow based on the data provided by NYWD and Preliminary Engineering Evaluations and Report done by Forsgren Associates, Inc. dated September 25, 2015 with a recommendation of utilizing 36-inch diameter pipe to convey the design capacity.

The upper section will be installed at grade and supported by pipe anchor blocks while the lower section shall be installed below grade with a minimum of 1 foot of backfill materials and pipeline anchoring system.

## **Hydraulic Analysis**

### Project Reach

Autodesk Storm and Sewer Analysis software will be utilized to analyze the system to determine if the design slope and recommended pipe size meets the minimum required to convey a steady flow of 24 cfs from Woodleaf Penstock South Fork gauging station 14 (SF 14) to Water Treatment Plant.

The proposed alignment for the pipe system will also match the existing ditch in order reduce the cost of obtaining new easements and the amount of areas being disturbed by utilizing the existing structures and improvements such as CMP/ADS N-12 pipes and siphons. These existing structures will remain in place, and only minor modifications will be required for conforms. The pipe system will be installed at grade, inside the ditch and will generally match the existing slope of the channel. Any changes to the slope will be minor since it is limited by the inverts of the existing structures. See Table 2 for the average and minimum slope of the system.

The project is divided to 6 different reach that ends and begins at existing siphons / cascade fall which will remain in place. It is assumed that the capacity of the existing siphons is greater than the design flow of 24 cfs and will not be included in the analysis. The pipe system will also match the inverts/flowline at these locations. See Table 1 below for Reach Limits.

Table 1 - Reach Location and Limits

Reach No.	Begin		End	
	Station	Location	Station	Location
1	10+00	SF 14	60+82	Oroleve Siphon Inlet
2	73+50	Oroleve Siphon Outlet	250+00	Woodleaf Siphon Inlet
3	260+00	Woodleaf Siphon Outlet	390+60	Cascade Falls
4	400+00	Cascade Falls	425+00	Costa Creek Siphon Inlet
5	450+00	Costa Creek Siphon Outlet	490+00	Beehive Siphon Inlet
6	500+00	Beehive Siphon Outlet	535+00	Forbestown Treatment Plant

Software Calculation

The method being used by the software to analyze a gravity flow system is Manning's equation as shown below:

$$Q = \frac{1.49}{n} AR^{2/3}\sqrt{S}$$

Where:

- Q = Design steady flow rate of 24 cfs (referred to as peak flow in the software analysis)
- n = Manning's roughness coefficient (0.012) as recommended by the manufacturer which includes 20-30% safety factor
- A = Cross-sectional area
- R = Hydraulic radius
- S = Design slope (See Table 2)

The design steady flow rate of 24 cfs (peak flow) is applied at the beginning of each reach. The software then analyzes the system by comparing this value to the calculated design flow capacity value determining if the system has the capacity to convey the given design flow rate. The design flow capacity of the pipe is calculated by utilizing Manning's equation above and assuming full pipe flow condition. See Exhibit B page 1 for a pipe design flow calculations for a 36-inch pipe.

The software then computes the peak flow/design flow capacity ratio by dividing the peak flow over the design flow capacity and outputs the reported condition. The pipe that has a peak flow/design flow capacity ratio of less than 1 will be reported by the software as "Calculated" to show that the pipe is operating below the maximum capacity. The pipe that has a peak flow/design flow capacity ratio of greater or equal to 1 will be reported as "Flooded", "> Capacity", or "Surcharged" to show that the pipe is running at or greater than design flow capacity. See Figure 1 for sample of the output report.

## 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 Pipe - (1)	24.00	0 00:00	27.10	0.89	4.33	0.06	2.20	0.73	0.00		Calculated
2 Pipe - (10)	24.00	0 00:00	26.78	0.90	4.28	0.20	2.22	0.74	0.00		Calculated
3 Pipe - (11)	24.00	0 00:00	27.36	0.88	4.36	0.16	2.18	0.73	0.00		Calculated

Figure 1

Figure 1 shows that Pipe-(1) with a peak flow/design flow capacity ratio of 0.89 is operating below its maximum capacity. This pipe, as designed, has the capacity convey the design flow of 24 cfs at a depth of 2.20 ft. See Exhibit B page 2 for pipe flow depth calculation.

### Headloss – Fittings and Structures

Any feature that causes the flow to accelerate, decelerate, change direction, or change cross-sectional area are known to cause loss of energy. Minor losses corresponding to this scenario will occur at each angled fitting, pipe transition and pipe flow turnout, which will be referred to as “junctions” in this report. The headloss at the junctions were reviewed and included in this analysis. The software, however, does not use energy equation to directly apply the entrance/exit loss at the junctions. In order to accurately represent the loss of energy for water entering and exiting a junction, the software treats the minor headloss as an additional friction loss within a pipe and is calculated using the equation below:

$$H_e = \left( \frac{K}{2gl} \right) x V_e x \left( \frac{Q}{A} \right)$$

Where:

He = exit (or entrance) head loss

K = loss coefficient (0.6 for both entrance and exit)

L = conduit length

Ve = exit (or entrance) velocity

Q = conduit flow rate

A = conduit flow area

It was determined that the change in direction caused by each junction may cause a loss of energy at the junctions but not enough to cause a loss in flow in the system.

Table 2 below shows the summary of the result from Autodesk Storm and Sewer Analysis software. See Exhibit B for junction and pipe report.

Table 2 – Analysis Result Summary

Reach No.	Pipe Diameter (Inches)	Manning's Roughness coefficient (n)	Maximum flow depth (ft)	Average Slope ft/ft	Minimum Slope ft/ft	Begin flow (CFS)	End Flow (CFS)
1	36	0.012	2.22	0.0017	0.0014	24	24
2	36	0.012	2.40	0.0018	0.0012	24	24
3	36	0.012	2.40	0.0015	0.0012	24	24
4	36	0.012	1.84	0.0040	0.0019	24	24
5	36	0.012	2.38	0.0013	0.0012	24	24
6	42	0.012	2.49	0.0007	0.0007	24	24

#### Headloss – Vertical Undulation

ADS HDPE N-12 Pipe with watertight joint was selected for this project for its lightweight feature, durability and flexibility. The pipe's flexibility will allow minor sagging and deformation that may occur due to downslope creep or in an event that a base course is removed from under the pipe creating vertical undulation in the system.

In order to determine the effect of minor sagging in the system, additional analysis and pipe modeling were performed utilizing Autodesk Storm and Sewer Analysis software. Similar to junction headloss, the software does not directly calculate the headloss due to vertical undulation. Instead, the headloss will be treated as a minor friction headloss and will be applied by increasing Manning's roughness coefficient. It is assumed that the effect of minor sagging will be equivalent to the effect of an increase in pipe roughness that results in a loss of energy.

In the initial analysis, the design Manning's roughness coefficient (n) of 0.0012 was based on the pipe material and as recommended by the manufacturer for HDPE. This value was determined by the manufacturer by including a safety factor of 20-30% to the Manning's value determined during laboratory testing of  $n=0.0010$  or less. A safety factor, in general, are added to accommodate for any unknown factor that may affect the function of the pipe which includes but not limited to site condition and installation method. See ADS, Inc. Drainage Handbook Section 3-0 Hydraulics.

For this analysis, Manning's roughness coefficient value was increased to  $n=0.0013$  to provide additional safety factor caused by minor sagging. It was determined that sections of the system with a slope less than 0.0014 ft/ft will experience over capacity and reduction of flow at the end of each segment. See Table 3 for summary of the pipe with slope less than 0.0014 ft/ft.

Table 3 - Summary of Pipe with slope less than 0.0014

Reach No.	Pipe Diameter (Inches)	Manning's Roughness coefficient (n)	Slope ft/ft	Length to be upsize ft
1	36	0.013		0
2	36	0.013	0.0012-0.0013	1,950
3	36	0.013	0.0012-0.0013	1,050
4	36	0.013		0
5	36	0.013	0.0012-0.0013	3,650 (All)
6	42	0.013	(See Table 2)	

Three alternatives below are provided to mitigate and alleviate any concerns with the effect of minor sagging in the pipe system. The alternatives will involve upsizing segments or the whole system. Additional cost associated with upsizing the pipe to 42-inch will be \$15.00/ft which includes the cost for materials and delivery of pipes, fittings and anchor blocks.

#### Do nothing

Initial analysis used a Manning's roughness coefficient of  $n=0.012$  to analyze the system. This value already includes a safety factor of 20-30% to the Manning's laboratory value to include any unknown factor that may affect the pipe efficiency. In this analysis, the 36-inch pipe will have the capacity to convey the design flow of 24 cfs knowing that the effect of minor sagging was accounted for in the manufacturer's added safety factor.

#### Upsizing segments

Several pipe sections at Reach 3, 4, and 5 has a slope that is less than 0.0014 ft/ ft will be over capacity based on Manning's roughness coefficient of  $n=0.013$ . Installing 42-inch pipe at these sections will provide the capacity required to deliver the design flow of 24 cfs in the system alleviating the concern with effect of minor sagging. The total additional cost associated with increasing the pipe size at these locations will be approximately \$100,000.

#### Upsizing System to 42-inch

Installing 42-inch pipe instead of 36-inch pipe will provide a more efficient system. In comparison to above alternative, this minimize any additional minor headloss in the fittings caused by change in the pipe sizes. This will also increase the maximum design capacity of the system from approximately 25 cfs to approximately 38 cfs providing additional capacity shall it be desired in the future. The total additional cost associated with increasing the pipe size of the system from 36-inch to 42-inch is approximately \$600,000.

## Conclusions

NYWD’s goal in replacing the existing ditch with the installation of the proposed pipeline is to increase the efficiency of the water conveyance system. The system was analyzed to carry a steady flow of 24 cfs. The initial analysis shows that 36-inch diameter HDPE ADS N-12 pipe with a minimum slope of 0.0012 ft/ft will have the capacity to meet the requirements for the pipes from SF 14 to Beehive siphon inlet. The section of the system with a slope less than 0.0014 ft/ft will have a minimal freeboard and will be just within the maximum capacity of the pipe.

The pipes that extends from Beehive siphon outlet to Forbestown Water Treatment Plant is in a flatter area with an average slope of 0.0007 ft/ft. The pipes at these areas will need to be increased to 42-inch diameter pipe.

Existing wood flumes within the project will also be modified and will be utilized only as pipe supports to the 36-inch pipe that will be installed within the existing structures. This will provide continuous connections between pipes and alleviate any concern of head loss caused by pipe to flume transition. See Exhibit E for detail.

During the peer design review by Gannet Fleming (Sage Engineering), it was recommended that additional analysis be performed to determine the effect of minor sagging in the system that may occur due to downslope creep. In the additional analysis, the headloss was applied in the system by increasing Manning’s pipe roughness coefficient value ( $n$ ) from 0.0012 to 0.0013. This analysis determined that any pipe with slope less 0.0014 ft/ft will experience over capacity and may need to be increase in pipe size.

Two different alternatives that were considered to improve the system is by upsizing segments of the pipe with slope less that 0.0014 ft/ft or increasing the pipe of the system to 42-inch pipe. The alternatives, however, will increase the overall cost of construction by \$100,000 or \$600,000, respectively.

After careful consideration of the different alternatives and revisiting the goal of providing an efficient system for their costumers, NYWD directed Northstar to upsize the system to 42-inch pipe. This will not only alleviate any concerns stated above but will also increase the capacity of the system to approximately 38 cfs providing an efficient system and additional capacity for future growth.

## Exhibits

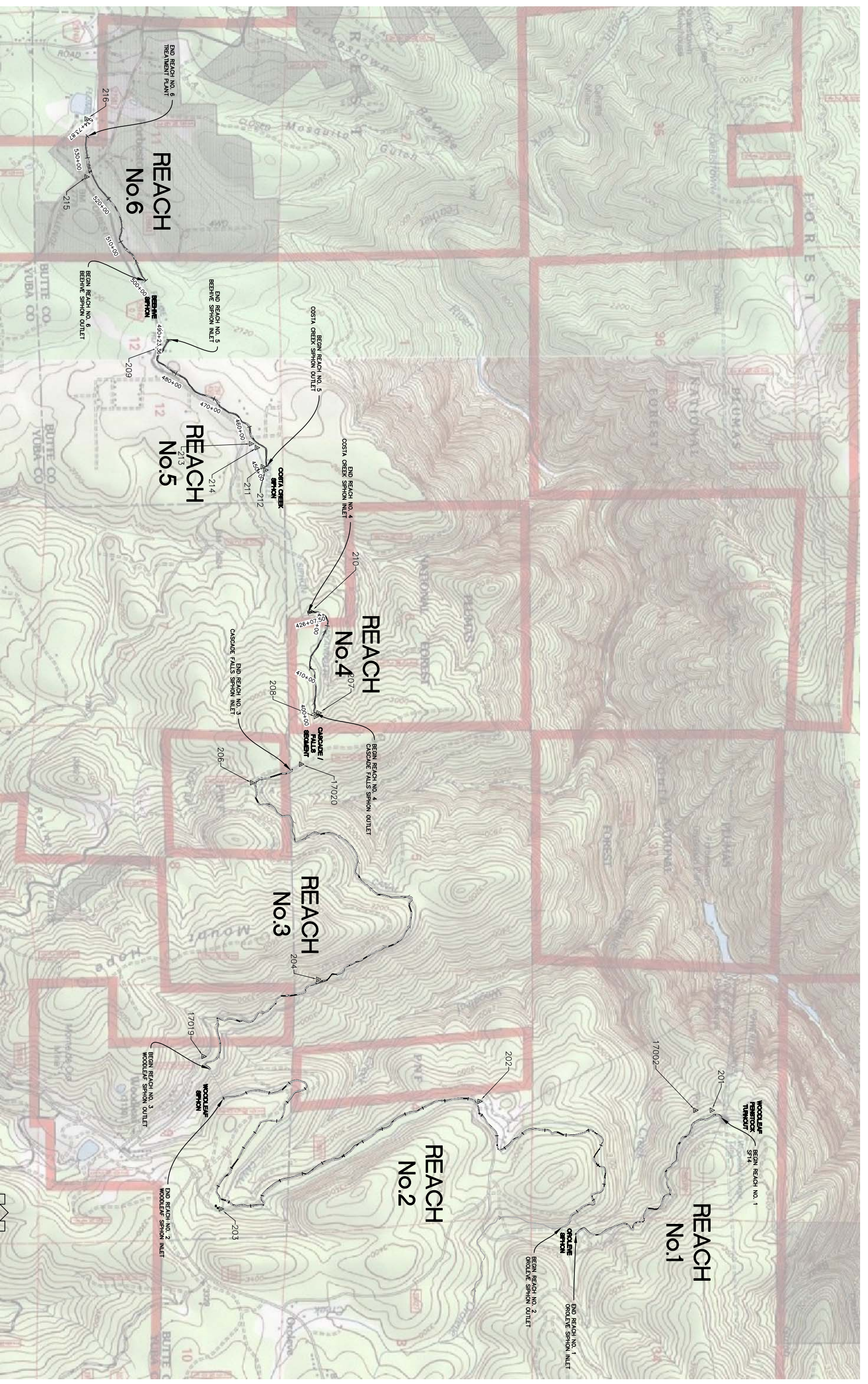
<i>Site Map</i> .....	A
<i>Sample Calculations</i> .....	B
<i>Storm and Sanitary Analysis 2018 Junction and Pipe Report (n=0.0012)</i> .....	C
<i>Storm and Sanitary Analysis 2018 Junction and Pipe Report (n=0.0013)</i> .....	D
<i>Wood flume Structure Detail</i> .....	E



## **Exhibit A**

*Site Map*

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Designed:	RDG	Revision:		Date:		By:	
Drawn By:	RDG						
Approved:							
Date:	AUGUST, 2018						

**NORTHSTAR**  
... Designing Solutions

111 MARSON RANCH BLVD. SUITE 100, CHICO, CA 95928  
PHONE (925) 885-1800 www.northstarinc.com

**NORTH YUBA WATER DISTRICT**  
8691 LA PORTE ROAD  
BROWNSVILLE, CA 95919

**FORBESTOWN DITCH PROJECT**  
EXHIBIT D - HYDRAULIC ANALYSIS MODEL

APN Number	000-000-000	Job Number	17-002	Scale	N/A	Sheet	1 of 1
				Horz.	Vert.		

## **Exhibit B**

*Sample Calculations*

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**FORBESTOWN DITCH PROJECT  
 NORTH YUBA WATER DISTRICT  
 EXHIBIT B - PAGE 1  
 PIPE DESIGN FLOW CALCULATION**

$$Q = \frac{1.49}{n} AR^{2/3} \sqrt{S}$$

Data Input					
D (Pipe diameter)=	36	in	D (Pipe diameter)=	3	ft
n (Manning roughness)=	0.012		r (Pipe Radius)=	1.5	ft
S (Slope)=	0.0014	ft/ft	V (Velocity)=	4.25	ft/sec

Iteration Method								
Depth (ft)	D-depth (ft)	θ (Radian)	A, ft <sup>2</sup>	n	P (ft)	R	(A*R <sup>2/3</sup> )/n	Q
2.10	0.900	2.319	5.28	0.0120	5.94	0.89	406.86	22.683
2.20	0.800	2.171	5.55	0.0120	6.16	0.90	431.48	24.055
2.30	0.700	2.017	5.81	0.0120	6.40	0.91	454.36	25.331
2.40	0.600	1.855	6.06	0.0120	6.64	0.91	475.05	26.484
2.50	0.500	1.682	6.29	0.0120	6.90	0.91	493.03	27.487
2.60	0.400	1.495	6.50	0.0120	7.18	0.91	507.65	28.302
2.70	0.300	1.287	6.70	0.0120	7.49	0.89	518.00	28.879
2.80	0.200	1.045	6.86	0.0120	7.85	0.87	522.73	29.142
2.90	0.100	0.734	6.99	0.0120	8.32	0.84	519.04	28.937
3.00	0.000	0.000	7.07	0.0120	9.42	0.75	486.00	27.095



**FORBESTOWN DITCH PROJECT  
NORTH YUBA WATER DISTRICT  
EXHIBIT B - PAGE 2  
PIPE FLOW DEPTH CALCULATION**

Manning's equation

$$Q = \frac{1.49}{n} AR^{2/3} \sqrt{S}$$

D (Pipe diameter)=  in  
 n (Manning roughness)=   
 S (Slope)=  ft/ft  
 Q (Flow rate)=  cfs

D (Pipe diameter)=  ft  
 r (Pipe Radius)=  ft  
 V (Velocity)=  ft/sec  
 Manning's equation

$$Q / (1.49 * S^{1/2}) = (A * R^{2/3}) / n$$

$$Q / (1.49 * S^{1/2}) =  \text{ Target value}$$

Iteration to find the depth of water where  $(A * R^{2/3}) / n$  is close to the target value

Depth (ft)	D-depth (ft)	θ (Radian)	A, ft <sup>2</sup>	n	P (ft)	R	(A * R <sup>2/3</sup> ) / n	Difference from
								Target value
2.15	0.850	2.245	5.42	0.0120	6.05	0.90	419.36	-11.128
2.16	0.840	2.230	5.44	0.0120	6.07	0.90	421.82	-8.672
2.17	0.830	2.216	5.47	0.0120	6.10	0.90	424.25	-6.233
2.18	0.820	2.201	5.50	0.0120	6.12	0.90	426.68	-3.810
2.19	0.810	2.186	5.53	0.0120	6.14	0.90	429.09	-1.403
2.20	0.800	2.171	5.55	0.0120	6.16	0.90	431.48	0.988
2.21	0.790	2.155	5.58	0.0120	6.19	0.90	433.85	3.361
2.22	0.780	2.140	5.60	0.0120	6.21	0.90	436.20	5.716
2.23	0.770	2.125	5.63	0.0120	6.23	0.90	438.54	8.053

## **Exhibit C**

*Storm and Sanitary Analysis 2018 Junction and Pipe Report (n=0.0012)*

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## Project Description

File Name ..... Section1.SPF

## Number of Elements

	Qty
Rain Gages .....	0
Subbasins.....	0
Nodes.....	78
<i>Junctions</i> .....	77
<i>Outfalls</i> .....	1
<i>Flow Diversions</i> .....	0
<i>Inlets</i> .....	0
<i>Storage Nodes</i> .....	0
Links.....	77
<i>Channels</i> .....	0
<i>Pipes</i> .....	77
<i>Pumps</i> .....	0
<i>Orifices</i> .....	0
<i>Weirs</i> .....	0
<i>Outlets</i> .....	0
Pollutants .....	0
Land Uses .....	0

## Node Summary

SN	Element ID	Element Type	Invert Elevation	Ground/Rim (Max) Elevation	Initial Water Elevation	Surcharge Elevation	Peak Inflow	Max HGL Elevation Attained
			(ft)	(ft)	(ft)	(ft)	(cfs)	(ft)
1	SF14 - (1)	Junction	3169.99	3172.99	3169.99	3173.25	24.00	3172.19
2	Structure - (10)	Junction	3169.28	3172.28	3169.28	3172.53	24.00	3171.50
3	Structure - (11)	Junction	3169.22	3172.22	3169.22	3172.45	24.00	3171.40
4	Structure - (12)	Junction	3169.15	3172.15	3169.15	3172.42	24.00	3171.36
5	Structure - (13)	Junction	3169.10	3172.10	3169.10	3172.36	24.00	3171.30
6	Structure - (14)	Junction	3168.91	3171.91	3168.91	3172.17	24.00	3171.11
7	Structure - (15)-AP	Junction	3168.80	3173.30	3168.80	3183.30	24.00	3170.99
8	Structure - (16)	Junction	3168.70	3171.70	3168.70	3171.96	24.00	3170.90
9	Structure - (17)	Junction	3168.64	3171.64	3168.64	3171.90	24.00	3170.84
10	Structure - (18)	Junction	3168.60	3171.60	3168.60	3171.86	24.00	3170.80
11	Structure - (19)	Junction	3168.56	3171.56	3168.56	3171.81	24.00	3170.76
12	Structure - (2)	Junction	3169.97	3172.97	3169.97	3173.23	24.00	3172.26
13	Structure - (21)	Junction	3168.45	3171.45	3168.45	3171.71	24.00	3170.65
14	Structure - (22)	Junction	3168.35	3171.35	3168.35	3171.61	24.00	3170.55
15	Structure - (23)	Junction	3167.97	3170.97	3167.97	3171.22	24.00	3170.16
16	Structure - (24)	Junction	3167.92	3170.92	3167.92	3171.18	24.00	3170.12
17	Structure - (25)	Junction	3167.78	3170.78	3167.78	3171.04	24.00	3169.98
18	Structure - (26)	Junction	3167.75	3170.75	3167.75	3171.01	24.00	3169.95
19	Structure - (27)	Junction	3167.68	3170.68	3167.68	3170.93	24.00	3169.87
20	Structure - (28)	Junction	3167.59	3170.59	3167.59	3170.84	24.00	3169.79
21	Structure - (29)	Junction	3167.53	3170.53	3167.53	3170.79	24.00	3169.73
22	Structure - (3)	Junction	3169.93	3172.93	3169.93	3173.18	24.00	3172.22
23	Structure - (30)-AP	Junction	3167.46	3171.40	3167.46	3171.40	24.00	3169.65
24	Structure - (31)	Junction	3167.30	3170.30	3167.30	3170.56	24.00	3169.50
25	Structure - (32)	Junction	3167.22	3170.22	3167.22	3170.47	24.00	3169.41
26	Structure - (33)	Junction	3167.12	3170.12	3167.12	3170.38	24.00	3169.32
27	Structure - (34)	Junction	3167.06	3170.06	3167.06	3170.32	24.00	3169.26
28	Structure - (35)	Junction	3166.95	3169.95	3166.95	3170.21	24.00	3169.15
29	Structure - (36)	Junction	3166.87	3169.87	3166.87	3170.12	24.00	3169.07
30	Structure - (37)	Junction	3166.83	3169.83	3166.83	3170.09	24.00	3169.04
31	Structure - (38)	Junction	3166.79	3169.79	3166.79	3170.05	24.00	3168.99
32	Structure - (39)	Junction	3166.75	3169.75	3166.75	3170.01	24.00	3168.95
33	Structure - (40)	Junction	3166.71	3169.71	3166.71	3169.97	24.00	3168.91
34	Structure - (41)	Junction	3166.62	3169.62	3166.62	3169.87	24.00	3168.82
35	Structure - (42)	Junction	3166.56	3169.56	3166.56	3169.82	24.00	3168.76
36	Structure - (43)	Junction	3166.54	3169.54	3166.54	3169.79	24.00	3168.74
37	Structure - (44)	Junction	3166.47	3169.47	3166.47	3169.73	24.00	3168.67
38	Structure - (45)	Junction	3166.21	3169.21	3166.21	3169.46	24.00	3168.40
39	Structure - (46)	Junction	3166.10	3169.10	3166.10	3169.35	24.00	3168.29
40	Structure - (460)	Junction	3168.50	3171.50	3168.50	3171.76	24.00	3170.70
41	Structure - (47)-AP	Junction	3166.06	3169.99	3166.06	3169.99	24.00	3168.26
42	Structure - (48)	Junction	3165.80	3168.80	3165.80	3169.06	24.00	3168.00
43	Structure - (49)	Junction	3165.76	3168.76	3165.76	3169.01	24.00	3167.96
44	Structure - (5)	Junction	3169.81	3172.81	3169.81	3173.07	24.00	3172.01
45	Structure - (50)	Junction	3165.62	3168.62	3165.62	3168.87	24.00	3167.81
46	Structure - (51)	Junction	3165.51	3168.51	3165.51	3168.76	24.00	3167.70
47	Structure - (54)	Junction	3164.29	3167.29	3164.29	3167.55	24.00	3166.27
48	Structure - (55)	Junction	3164.19	3167.19	3164.19	3167.45	24.00	3166.17
49	Structure - (56)	Junction	3164.12	3167.12	3164.12	3167.38	24.00	3166.10
50	Structure - (57)	Junction	3164.01	3167.01	3164.01	3167.27	24.00	3165.99
51	Structure - (58)	Junction	3163.91	3166.91	3163.91	3167.17	24.00	3165.89
52	Structure - (582)	Junction	3165.44	3170.44	3165.44	3170.77	24.00	3167.63
53	Structure - (583)	Junction	3165.14	3170.14	3165.14	3170.46	24.00	3166.58
54	Structure - (584)	Junction	3164.85	3169.85	3164.85	3170.17	24.00	3166.29
55	Structure - (585)	Junction	3164.36	3169.36	3164.36	3169.69	24.00	3166.34
56	Structure - (59)	Junction	3163.88	3166.88	3163.88	3167.14	24.00	3165.87
57	Structure - (6)	Junction	3169.72	3172.72	3169.72	3172.98	24.00	3171.92
58	Structure - (60)	Junction	3163.86	3166.86	3163.86	3167.11	24.00	3165.84
59	Structure - (61)	Junction	3163.82	3166.82	3163.82	3167.07	24.00	3165.80
60	Structure - (62)	Junction	3163.61	3166.61	3163.61	3166.86	24.00	3165.59
61	Structure - (63)-AP	Junction	3163.55	3167.90	3163.55	3167.90	24.00	3165.53
62	Structure - (64)	Junction	3163.47	3166.47	3163.47	3166.72	24.00	3165.45
63	Structure - (65)	Junction	3163.37	3166.37	3163.37	3166.63	24.00	3165.35
64	Structure - (66)	Junction	3163.17	3166.17	3163.17	3166.43	24.00	3165.15
65	Structure - (67)	Junction	3163.09	3166.09	3163.09	3166.35	24.00	3165.07
66	Structure - (68)	Junction	3162.71	3165.71	3162.71	3165.97	24.00	3164.69
67	Structure - (69)	Junction	3162.42	3165.42	3162.42	3165.67	24.00	3164.40
68	Structure - (7)	Junction	3169.61	3172.61	3169.61	3172.87	24.00	3171.81
69	Structure - (70)	Junction	3162.24	3165.24	3162.24	3165.50	24.00	3164.22
70	Structure - (71)-AP	Junction	3162.06	3166.50	3162.06	3166.50	24.00	3164.04
71	Structure - (72)	Junction	3161.98	3164.98	3161.98	3165.24	24.00	3163.97
72	Structure - (73)	Junction	3161.71	3164.71	3161.71	3164.97	24.00	3163.74
73	Structure - (74)	Junction	3161.66	3164.66	3161.66	3164.92	24.00	3163.69
74	Structure - (75)	Junction	3161.55	3164.55	3161.55	3164.81	24.00	3163.58
75	Structure - (8)	Junction	3169.49	3172.49	3169.49	3172.75	24.00	3171.71
76	Structure - (80)	Junction	3165.77	3168.77	3165.77	3169.03	24.00	3167.97
77	Structure - (9)	Junction	3169.35	3172.35	3169.35	3172.60	24.00	3171.57
78	Out-OroleveSiphon - (75)	Outfall	3161.31				24.00	3163.34



## 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 (in)	Manning's Roughness	Peak Flow (cfs)	Design Flow Capacity (cfs)	Peak Flow Velocity (ft/sec)	Peak Flow Reported Depth (ft)	Condition
1	Pipe - (1)	SF14 - (1)	Structure - (2)	14.31	3169.99	3169.97	0.1400	36.000	0.0120	24.00	27.10	4.33	2.20	Calculated
2	Pipe - (10)	Structure - (9)	Structure - (10)	50.95	3169.35	3169.28	0.1400	36.000	0.0120	24.00	26.78	4.28	2.22	Calculated
3	Pipe - (11)	Structure - (10)	Structure - (11)	41.86	3169.28	3169.22	0.1400	36.000	0.0120	24.00	27.36	4.36	2.18	Calculated
4	Pipe - (12)	Structure - (11)	Structure - (12)	40.35	3169.22	3169.16	0.1400	36.000	0.0120	24.00	27.89	4.43	2.15	Calculated
5	Pipe - (13)	Structure - (12)	Structure - (13)	37.63	3169.16	3169.11	0.1400	36.000	0.0120	24.00	27.11	4.33	2.20	Calculated
6	Pipe - (14)	Structure - (13)	Structure - (14)	139.02	3169.11	3168.91	0.1400	36.000	0.0120	24.00	27.10	4.33	2.20	Calculated
7	Pipe - (15)	Structure - (14)	Structure - (15)-AP	82.15	3168.91	3168.80	0.1400	36.000	0.0120	24.00	27.11	4.33	2.20	Calculated
8	Pipe - (16)	Structure - (15)-AP	Structure - (16)	66.09	3168.80	3168.70	0.1400	36.000	0.0120	24.00	27.08	4.32	2.20	Calculated
9	Pipe - (17)	Structure - (16)	Structure - (17)	42.16	3168.70	3168.64	0.1400	36.000	0.0120	24.00	27.14	4.33	2.19	Calculated
10	Pipe - (18)	Structure - (17)	Structure - (18)	29.59	3168.64	3168.60	0.1400	36.000	0.0120	24.00	27.05	4.32	2.20	Calculated
11	Pipe - (19)	Structure - (18)	Structure - (19)	30.53	3168.60	3168.56	0.1400	36.000	0.0120	24.00	27.10	4.33	2.20	Calculated
12	Pipe - (2)	Structure - (2)	Structure - (3)	32.72	3169.97	3169.93	0.1400	36.000	0.0120	24.00	25.84	4.15	2.29	Calculated
13	Pipe - (20)	Structure - (19)	Structure - (460)	39.31	3168.56	3168.50	0.1400	36.000	0.0120	24.00	27.15	4.33	2.19	Calculated
14	Pipe - (20) (1)	Structure - (460)	Structure - (21)	35.92	3168.50	3168.45	0.1400	36.000	0.0120	24.00	27.04	4.32	2.20	Calculated
15	Pipe - (22)	Structure - (21)	Structure - (22)	70.89	3168.45	3168.35	0.1400	36.000	0.0120	24.00	27.15	4.33	2.19	Calculated
16	Pipe - (23)	Structure - (22)	Structure - (23)	275.47	3168.35	3167.97	0.1400	36.000	0.0120	24.00	27.10	4.33	2.20	Calculated
17	Pipe - (24)	Structure - (23)	Structure - (24)	29.65	3167.97	3167.92	0.1400	36.000	0.0120	24.00	27.08	4.32	2.20	Calculated
18	Pipe - (25)	Structure - (24)	Structure - (25)	99.47	3167.92	3167.78	0.1400	36.000	0.0120	24.00	27.12	4.33	2.20	Calculated
19	Pipe - (26)	Structure - (25)	Structure - (26)	22.81	3167.78	3167.75	0.1400	36.000	0.0120	24.00	27.12	4.33	2.20	Calculated
20	Pipe - (27)	Structure - (26)	Structure - (27)	54.45	3167.75	3167.68	0.1400	36.000	0.0120	24.00	27.09	4.33	2.20	Calculated
21	Pipe - (28)	Structure - (27)	Structure - (28)	61.44	3167.68	3167.59	0.1400	36.000	0.0120	24.00	27.11	4.33	2.20	Calculated
22	Pipe - (29)	Structure - (28)	Structure - (29)	39.65	3167.59	3167.53	0.1400	36.000	0.0120	24.00	27.10	4.33	2.20	Calculated
23	Pipe - (3)	Structure - (3)	Structure - (5)	81.90	3169.93	3169.81	0.1400	36.000	0.0120	24.00	27.59	4.39	2.16	Calculated
24	Pipe - (30)	Structure - (29)	Structure - (30)-AP	55.02	3167.53	3167.46	0.1400	36.000	0.0120	24.00	27.10	4.33	2.20	Calculated
25	Pipe - (31)	Structure - (30)-AP	Structure - (31)	108.89	3167.46	3167.30	0.1400	36.000	0.0120	24.00	27.08	4.32	2.20	Calculated
26	Pipe - (32)	Structure - (31)	Structure - (32)	59.74	3167.30	3167.22	0.1400	36.000	0.0120	24.00	27.12	4.33	2.20	Calculated
27	Pipe - (33)	Structure - (32)	Structure - (33)	70.38	3167.22	3167.12	0.1400	36.000	0.0120	24.00	27.11	4.33	2.20	Calculated
28	Pipe - (34)	Structure - (33)	Structure - (34)	41.95	3167.12	3167.06	0.1400	36.000	0.0120	24.00	27.08	4.32	2.20	Calculated
29	Pipe - (35)	Structure - (34)	Structure - (35)	78.99	3167.06	3166.95	0.1400	36.000	0.0120	24.00	27.08	4.32	2.20	Calculated
30	Pipe - (36)	Structure - (35)	Structure - (36)	58.21	3166.95	3166.87	0.1400	36.000	0.0120	24.00	27.11	4.33	2.20	Calculated
31	Pipe - (37)	Structure - (36)	Structure - (37)	25.67	3166.87	3166.83	0.1400	36.000	0.0120	24.00	26.95	4.31	2.21	Calculated
32	Pipe - (38)	Structure - (37)	Structure - (38)	27.29	3166.83	3166.79	0.1400	36.000	0.0120	24.00	27.33	4.36	2.18	Calculated
33	Pipe - (39)	Structure - (38)	Structure - (39)	28.04	3166.79	3166.75	0.1400	36.000	0.0120	24.00	27.11	4.33	2.20	Calculated
34	Pipe - (4)	Structure - (5)	Structure - (6)	63.23	3169.81	3169.72	0.1400	36.000	0.0120	24.00	27.10	4.33	2.20	Calculated
35	Pipe - (40)	Structure - (39)	Structure - (40)	31.43	3166.75	3166.71	0.1400	36.000	0.0120	24.00	27.04	4.32	2.20	Calculated
36	Pipe - (41)	Structure - (40)	Structure - (41)	66.52	3166.71	3166.62	0.1400	36.000	0.0120	24.00	27.13	4.33	2.20	Calculated
37	Pipe - (42)	Structure - (41)	Structure - (42)	39.15	3166.62	3166.56	0.1400	36.000	0.0120	24.00	27.02	4.32	2.20	Calculated
38	Pipe - (43)	Structure - (42)	Structure - (43)	15.90	3166.56	3166.54	0.1400	36.000	0.0120	24.00	27.20	4.34	2.19	Calculated
39	Pipe - (44)	Structure - (43)	Structure - (44)	46.77	3166.54	3166.47	0.1400	36.000	0.0120	24.00	27.08	4.32	2.20	Calculated
40	Pipe - (45)	Structure - (44)	Structure - (45)	188.63	3166.47	3166.21	0.1400	36.000	0.0120	24.00	27.10	4.33	2.20	Calculated
41	Pipe - (46)	Structure - (45)	Structure - (46)	76.81	3166.21	3166.10	0.1400	36.000	0.0120	24.00	27.13	4.33	2.19	Calculated
42	Pipe - (47)	Structure - (46)	Structure - (47)-AP	29.40	3166.10	3166.06	0.1400	36.000	0.0120	24.00	27.21	4.34	2.19	Calculated
43	Pipe - (48)	Structure - (47)-AP	Structure - (48)	183.69	3166.06	3165.80	0.1400	36.000	0.0120	24.00	27.07	4.32	2.20	Calculated
44	Pipe - (49)	Structure - (48)	Structure - (80)	20.09	3165.80	3165.77	0.1400	36.000	0.0120	24.00	27.18	4.34	2.19	Calculated
45	Pipe - (49) (1)	Structure - (80)	Structure - (49)	8.49	3165.77	3165.76	0.1400	36.000	0.0120	24.00	27.08	4.32	2.20	Calculated
46	Pipe - (5)	Structure - (6)	Structure - (7)	76.91	3169.72	3169.61	0.1400	36.000	0.0120	24.00	27.10	4.33	2.20	Calculated
47	Pipe - (50)	Structure - (49)	Structure - (50)	102.29	3165.76	3165.62	0.1400	36.000	0.0120	24.00	27.08	4.32	2.20	Calculated
48	Pipe - (51)	Structure - (50)	Structure - (51)	77.08	3165.62	3165.51	0.1400	36.000	0.0120	24.00	27.11	4.33	2.20	Calculated
49	Pipe - (52)	Structure - (51)	Structure - (582)	47.30	3165.51	3165.44	0.1400	36.000	0.0120	24.00	27.15	4.33	2.19	Calculated
50	Pipe - (521)-CMP	Structure - (582)	Structure - (583)	41.08	3165.44	3165.14	0.7400	60.000	0.0220	24.00	132.30	5.10	1.45	Calculated
51	Pipe - (522)-CMP	Structure - (583)	Structure - (584)	38.82	3165.14	3164.85	0.7400	60.000	0.0220	24.00	132.59	5.11	1.44	Calculated
52	Pipe - (523)-CMP	Structure - (584)	Structure - (585)	65.73	3164.85	3164.36	0.7400	60.000	0.0220	24.00	132.64	5.11	1.44	Calculated
53	Pipe - (53)	Structure - (585)	Structure - (54)	37.42	3164.36	3164.29	0.1800	36.000	0.0120	24.00	31.03	4.85	1.98	Calculated
54	Pipe - (54)	Structure - (54)	Structure - (55)	52.42	3164.29	3164.19	0.1800	36.000	0.0120	24.00	31.08	4.85	1.98	Calculated
55	Pipe - (55)	Structure - (55)	Structure - (56)	38.21	3164.19	3164.12	0.1800	36.000	0.0120	24.00	31.05	4.85	1.98	Calculated
56	Pipe - (56)	Structure - (56)	Structure - (57)	60.97	3164.12	3164.01	0.1800	36.000	0.0120	24.00	31.04	4.85	1.98	Calculated
57	Pipe - (57)	Structure - (57)	Structure - (58)	54.61	3164.01	3163.91	0.1800	36.000	0.0120	24.00	31.04	4.85	1.98	Calculated
58	Pipe - (58)	Structure - (58)	Structure - (59)	14.17	3163.91	3163.88	0.1900	36.000	0.0120	24.00	31.12	4.86	1.98	Calculated

## 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 (in)	Manning's Roughness	Peak Flow (cfs)	Design Flow Capacity (cfs)	Peak Flow Velocity (ft/sec)	Peak Flow Reported Depth (ft)	Condition
59	Pipe	Structure - (59)	Structure - (60)	13.79	3163.88	3163.86	0.1800	36.000	0.0120	24.00	30.98	4.84	1.98	Calculated
60	Pipe	Structure - (60)	Structure - (61)	22.05	3163.86	3163.82	0.1800	36.000	0.0120	24.00	31.06	4.85	1.98	Calculated
61	Pipe	Structure - (61)	Structure - (62)	113.44	3163.82	3163.61	0.1800	36.000	0.0120	24.00	31.07	4.85	1.98	Calculated
62	Pipe	Structure - (62)	Structure - (63)-AP	33.09	3163.61	3163.55	0.1800	36.000	0.0120	24.00	30.99	4.84	1.98	Calculated
63	Pipe	Structure - (63)-AP	Structure - (64)	43.79	3163.55	3163.47	0.1900	36.000	0.0120	24.00	31.10	4.86	1.98	Calculated
64	Pipe	Structure - (64)	Structure - (65)	51.34	3163.47	3163.37	0.1800	36.000	0.0120	24.00	31.05	4.85	1.98	Calculated
65	Pipe	Structure - (65)	Structure - (66)	107.81	3163.37	3163.17	0.1800	36.000	0.0120	24.00	31.06	4.85	1.98	Calculated
66	Pipe	Structure - (66)	Structure - (67)	43.97	3163.17	3163.09	0.1800	36.000	0.0120	24.00	31.06	4.85	1.98	Calculated
67	Pipe	Structure - (67)	Structure - (68)	205.18	3163.09	3162.71	0.1800	36.000	0.0120	24.00	31.06	4.85	1.98	Calculated
68	Pipe	Structure - (68)	Structure - (69)	160.33	3162.71	3162.42	0.1800	36.000	0.0120	24.00	31.05	4.85	1.98	Calculated
69	Pipe	Structure - (69)	Structure - (70)	95.26	3162.42	3162.24	0.1800	36.000	0.0120	24.00	31.06	4.85	1.98	Calculated
70	Pipe	Structure - (7)	Structure - (8)	87.53	3169.61	3169.49	0.1400	36.000	0.0120	24.00	27.10	4.33	2.20	Calculated
71	Pipe	Structure - (70)	Structure - (71)-AP	96.74	3162.24	3162.06	0.1800	36.000	0.0120	24.00	31.07	4.85	1.98	Calculated
72	Pipe	Structure - (71)-AP	Structure - (72)	41.62	3162.06	3161.98	0.1800	36.000	0.0120	24.00	31.02	4.85	1.98	Calculated
73	Pipe	Structure - (72)	Structure - (73)	132.08	3161.98	3161.71	0.2100	36.000	0.0120	24.00	32.82	5.07	1.91	Calculated
74	Pipe	Structure - (73)	Structure - (74)	29.50	3161.71	3161.66	0.1700	36.000	0.0120	24.00	30.01	4.72	2.03	Calculated
75	Pipe	Structure - (74)	Structure - (75)	62.02	3161.66	3161.55	0.1700	36.000	0.0120	24.00	30.01	4.72	2.03	Calculated
76	Pipe	Structure - (75)	Out-OroleveSiphon - (75)	141.24	3161.55	3161.31	0.1700	36.000	0.0120	24.00	30.01	4.72	2.03	Calculated
77	Pipe	Structure - (8)	Structure - (9)	101.82	3169.49	3169.35	0.1400	36.000	0.0120	24.00	26.82	4.29	2.22	Calculated

# Junction Input

SN	Element ID	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Initial Water Elevation (ft)	Initial Water Depth (ft)	Surcharge Elevation (ft)	Surcharge Depth (ft)	Ponded Area (ft²)	Minimum Pipe Cover (in)
1	SF14 - (1)	3169.99	3172.99	3.00	3169.99	0.00	3173.25	0.26	0.00	0.00
2	Structure - (10)	3169.28	3172.28	3.00	3169.28	0.00	3172.53	0.25	0.00	0.00
3	Structure - (11)	3169.22	3172.22	3.00	3169.22	0.00	3172.45	0.23	0.00	0.00
4	Structure - (12)	3169.15	3172.15	3.00	3169.15	0.00	3172.42	0.27	0.00	0.00
5	Structure - (13)	3169.10	3172.10	3.00	3169.10	0.00	3172.36	0.26	0.00	0.00
6	Structure - (14)	3168.91	3171.91	3.00	3168.91	0.00	3172.17	0.26	0.00	0.00
7	Structure - (15)-AP	3168.80	3173.30	4.50	3168.80	0.00	3183.30	10.00	0.00	0.00
8	Structure - (16)	3168.70	3171.70	3.00	3168.70	0.00	3171.96	0.26	0.00	0.00
9	Structure - (17)	3168.64	3171.64	3.00	3168.64	0.00	3171.90	0.26	0.00	0.00
10	Structure - (18)	3168.60	3171.60	3.00	3168.60	0.00	3171.86	0.26	0.00	0.00
11	Structure - (19)	3168.56	3171.56	3.00	3168.56	0.00	3171.81	0.25	0.00	0.00
12	Structure - (2)	3169.97	3172.97	3.00	3169.97	0.00	3173.23	0.26	0.00	0.00
13	Structure - (21)	3168.45	3171.45	3.00	3168.45	0.00	3171.71	0.26	0.00	0.00
14	Structure - (22)	3168.35	3171.35	3.00	3168.35	0.00	3171.61	0.26	0.00	0.00
15	Structure - (23)	3167.97	3170.97	3.00	3167.97	0.00	3171.22	0.25	0.00	0.00
16	Structure - (24)	3167.92	3170.92	3.00	3167.92	0.00	3171.18	0.26	0.00	0.00
17	Structure - (25)	3167.78	3170.78	3.00	3167.78	0.00	3171.04	0.26	0.00	0.00
18	Structure - (26)	3167.75	3170.75	3.00	3167.75	0.00	3171.01	0.26	0.00	0.00
19	Structure - (27)	3167.68	3170.68	3.00	3167.68	0.00	3170.93	0.25	0.00	0.00
20	Structure - (28)	3167.59	3170.59	3.00	3167.59	0.00	3170.84	0.25	0.00	0.00
21	Structure - (29)	3167.53	3170.53	3.00	3167.53	0.00	3170.79	0.26	0.00	0.00
22	Structure - (3)	3169.93	3172.93	3.00	3169.93	0.00	3173.18	0.25	0.00	0.00
23	Structure - (30)-AP	3167.46	3171.40	3.94	3167.46	0.00	3171.40	0.00	0.00	0.00
24	Structure - (31)	3167.30	3170.30	3.00	3167.30	0.00	3170.56	0.26	0.00	0.00
25	Structure - (32)	3167.22	3170.22	3.00	3167.22	0.00	3170.47	0.25	0.00	0.00
26	Structure - (33)	3167.12	3170.12	3.00	3167.12	0.00	3170.38	0.26	0.00	0.00
27	Structure - (34)	3167.06	3170.06	3.00	3167.06	0.00	3170.32	0.26	0.00	0.00
28	Structure - (35)	3166.95	3169.95	3.00	3166.95	0.00	3170.21	0.26	0.00	0.00
29	Structure - (36)	3166.87	3169.87	3.00	3166.87	0.00	3170.12	0.25	0.00	0.00
30	Structure - (37)	3166.83	3169.83	3.00	3166.83	0.00	3170.09	0.26	0.00	0.00
31	Structure - (38)	3166.79	3169.79	3.00	3166.79	0.00	3170.05	0.26	0.00	0.00
32	Structure - (39)	3166.75	3169.75	3.00	3166.75	0.00	3170.01	0.26	0.00	0.00
33	Structure - (40)	3166.71	3169.71	3.00	3166.71	0.00	3169.97	0.26	0.00	0.00
34	Structure - (41)	3166.62	3169.62	3.00	3166.62	0.00	3169.87	0.25	0.00	0.00
35	Structure - (42)	3166.56	3169.56	3.00	3166.56	0.00	3169.82	0.26	0.00	0.00
36	Structure - (43)	3166.54	3169.54	3.00	3166.54	0.00	3169.79	0.25	0.00	0.00
37	Structure - (44)	3166.47	3169.47	3.00	3166.47	0.00	3169.73	0.26	0.00	0.00
38	Structure - (45)	3166.21	3169.21	3.00	3166.21	0.00	3169.46	0.25	0.00	0.00
39	Structure - (46)	3166.10	3169.10	3.00	3166.10	0.00	3169.35	0.25	0.00	0.00
40	Structure - (460)	3168.50	3171.50	3.00	3168.50	0.00	3171.76	0.26	0.00	0.00
41	Structure - (47)-AP	3166.06	3169.99	3.93	3166.06	0.00	3169.99	0.00	0.00	0.00
42	Structure - (48)	3165.80	3168.80	3.00	3165.80	0.00	3169.06	0.26	0.00	0.00
43	Structure - (49)	3165.76	3168.76	3.00	3165.76	0.00	3169.01	0.25	0.00	0.00
44	Structure - (5)	3169.81	3172.81	3.00	3169.81	0.00	3173.07	0.26	0.00	0.00
45	Structure - (50)	3165.62	3168.62	3.00	3165.62	0.00	3168.87	0.25	0.00	0.00
46	Structure - (51)	3165.51	3168.51	3.00	3165.51	0.00	3168.76	0.25	0.00	0.00
47	Structure - (54)	3164.29	3167.29	3.00	3164.29	0.00	3167.55	0.26	0.00	0.00
48	Structure - (55)	3164.19	3167.19	3.00	3164.19	0.00	3167.45	0.26	0.00	0.00
49	Structure - (56)	3164.12	3167.12	3.00	3164.12	0.00	3167.38	0.26	0.00	0.00
50	Structure - (57)	3164.01	3167.01	3.00	3164.01	0.00	3167.27	0.26	0.00	0.00
51	Structure - (58)	3163.91	3166.91	3.00	3163.91	0.00	3167.17	0.26	0.00	0.00
52	Structure - (582)	3165.44	3170.44	5.00	3165.44	0.00	3170.77	0.33	0.00	0.00
53	Structure - (583)	3165.14	3170.14	5.00	3165.14	0.00	3170.46	0.32	0.00	0.00
54	Structure - (584)	3164.85	3169.85	5.00	3164.85	0.00	3170.17	0.32	0.00	0.00
55	Structure - (585)	3164.36	3169.36	5.00	3164.36	0.00	3169.69	0.33	0.00	0.00
56	Structure - (59)	3163.88	3166.88	3.00	3163.88	0.00	3167.14	0.26	0.00	0.00
57	Structure - (6)	3169.72	3172.72	3.00	3169.72	0.00	3172.98	0.26	0.00	0.00
58	Structure - (60)	3163.86	3166.86	3.00	3163.86	0.00	3167.11	0.25	0.00	0.00
59	Structure - (61)	3163.82	3166.82	3.00	3163.82	0.00	3167.07	0.25	0.00	0.00
60	Structure - (62)	3163.61	3166.61	3.00	3163.61	0.00	3166.86	0.25	0.00	0.00
61	Structure - (63)-AP	3163.55	3167.90	4.35	3163.55	0.00	3167.90	0.00	0.00	0.00
62	Structure - (64)	3163.47	3166.47	3.00	3163.47	0.00	3166.72	0.25	0.00	0.00
63	Structure - (65)	3163.37	3166.37	3.00	3163.37	0.00	3166.63	0.26	0.00	0.00
64	Structure - (66)	3163.17	3166.17	3.00	3163.17	0.00	3166.43	0.26	0.00	0.00
65	Structure - (67)	3163.09	3166.09	3.00	3163.09	0.00	3166.35	0.26	0.00	0.00
66	Structure - (68)	3162.71	3165.71	3.00	3162.71	0.00	3165.97	0.26	0.00	0.00
67	Structure - (69)	3162.42	3165.42	3.00	3162.42	0.00	3165.67	0.25	0.00	0.00
68	Structure - (7)	3169.61	3172.61	3.00	3169.61	0.00	3172.87	0.26	0.00	0.00
69	Structure - (70)	3162.24	3165.24	3.00	3162.24	0.00	3165.50	0.26	0.00	0.00
70	Structure - (71)-AP	3162.06	3166.50	4.44	3162.06	0.00	3166.50	0.00	0.00	0.00
71	Structure - (72)	3161.98	3164.98	3.00	3161.98	0.00	3165.24	0.26	0.00	0.00
72	Structure - (73)	3161.71	3164.71	3.00	3161.71	0.00	3164.97	0.26	0.00	0.00
73	Structure - (74)	3161.66	3164.66	3.00	3161.66	0.00	3164.92	0.26	0.00	0.00
74	Structure - (75)	3161.55	3164.55	3.00	3161.55	0.00	3164.81	0.26	0.00	0.00
75	Structure - (8)	3169.49	3172.49	3.00	3169.49	0.00	3172.75	0.26	0.00	0.00
76	Structure - (80)	3165.77	3168.77	3.00	3165.77	0.00	3169.03	0.26	0.00	0.00
77	Structure - (9)	3169.35	3172.35	3.00	3169.35	0.00	3172.60	0.25	0.00	0.00

# Junction Results

SN	Element ID	Peak Inflow	Max HGL Elevation	Max HGL Depth	Max Surge Depth Attained	Min Freeboard Attained	Average HGL Elevation	Average HGL Depth Attained	Total Flooded Volume
		(cfs)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ac-in)
1	SF14 - (1)	24.00	3172.19	2.20	0.00	0.80	3172.19	2.20	0.00
2	Structure - (10)	24.00	3171.50	2.22	0.00	0.78	3171.50	2.22	0.00
3	Structure - (11)	24.00	3171.40	2.18	0.00	0.82	3171.40	2.18	0.00
4	Structure - (12)	24.00	3171.36	2.21	0.00	0.80	3171.36	2.21	0.00
5	Structure - (13)	24.00	3171.30	2.20	0.00	0.80	3171.30	2.20	0.00
6	Structure - (14)	24.00	3171.11	2.20	0.00	0.80	3171.11	2.20	0.00
7	Structure - (15)-AP	24.00	3170.99	2.19	0.00	2.31	3170.99	2.19	0.00
8	Structure - (16)	24.00	3170.90	2.20	0.00	0.80	3170.90	2.20	0.00
9	Structure - (17)	24.00	3170.84	2.20	0.00	0.80	3170.84	2.20	0.00
10	Structure - (18)	24.00	3170.80	2.20	0.00	0.80	3170.80	2.20	0.00
11	Structure - (19)	24.00	3170.76	2.20	0.00	0.80	3170.76	2.20	0.00
12	Structure - (2)	24.00	3172.26	2.29	0.00	0.71	3172.26	2.29	0.00
13	Structure - (21)	24.00	3170.65	2.20	0.00	0.80	3170.65	2.20	0.00
14	Structure - (22)	24.00	3170.55	2.20	0.00	0.80	3170.55	2.20	0.00
15	Structure - (23)	24.00	3170.16	2.19	0.00	0.81	3170.16	2.19	0.00
16	Structure - (24)	24.00	3170.12	2.20	0.00	0.80	3170.12	2.20	0.00
17	Structure - (25)	24.00	3169.98	2.20	0.00	0.80	3169.98	2.20	0.00
18	Structure - (26)	24.00	3169.95	2.20	0.00	0.80	3169.95	2.20	0.00
19	Structure - (27)	24.00	3169.87	2.19	0.00	0.81	3169.87	2.19	0.00
20	Structure - (28)	24.00	3169.79	2.20	0.00	0.80	3169.79	2.20	0.00
21	Structure - (29)	24.00	3169.73	2.20	0.00	0.80	3169.73	2.20	0.00
22	Structure - (3)	24.00	3172.22	2.29	0.00	0.71	3172.22	2.29	0.00
23	Structure - (30)-AP	24.00	3169.65	2.19	0.00	1.75	3169.65	2.19	0.00
24	Structure - (31)	24.00	3169.50	2.20	0.00	0.80	3169.50	2.20	0.00
25	Structure - (32)	24.00	3169.41	2.19	0.00	0.81	3169.41	2.19	0.00
26	Structure - (33)	24.00	3169.32	2.20	0.00	0.80	3169.32	2.20	0.00
27	Structure - (34)	24.00	3169.26	2.20	0.00	0.80	3169.26	2.20	0.00
28	Structure - (35)	24.00	3169.15	2.20	0.00	0.80	3169.15	2.20	0.00
29	Structure - (36)	24.00	3169.07	2.20	0.00	0.80	3169.07	2.20	0.00
30	Structure - (37)	24.00	3169.04	2.21	0.00	0.79	3169.04	2.21	0.00
31	Structure - (38)	24.00	3168.99	2.20	0.00	0.80	3168.99	2.20	0.00
32	Structure - (39)	24.00	3168.95	2.20	0.00	0.80	3168.95	2.20	0.00
33	Structure - (40)	24.00	3168.91	2.20	0.00	0.80	3168.91	2.20	0.00
34	Structure - (41)	24.00	3168.82	2.20	0.00	0.80	3168.82	2.20	0.00
35	Structure - (42)	24.00	3168.76	2.20	0.00	0.80	3168.76	2.20	0.00
36	Structure - (43)	24.00	3168.74	2.20	0.00	0.80	3168.74	2.20	0.00
37	Structure - (44)	24.00	3168.67	2.20	0.00	0.80	3168.67	2.20	0.00
38	Structure - (45)	24.00	3168.40	2.19	0.00	0.81	3168.40	2.19	0.00
39	Structure - (46)	24.00	3168.29	2.19	0.00	0.81	3168.29	2.19	0.00
40	Structure - (460)	24.00	3170.70	2.20	0.00	0.80	3170.70	2.20	0.00
41	Structure - (47)-AP	24.00	3168.26	2.20	0.00	1.73	3168.26	2.20	0.00
42	Structure - (48)	24.00	3168.00	2.20	0.00	0.80	3168.00	2.20	0.00
43	Structure - (49)	24.00	3167.96	2.20	0.00	0.80	3167.96	2.20	0.00
44	Structure - (5)	24.00	3172.01	2.20	0.00	0.80	3172.01	2.20	0.00
45	Structure - (50)	24.00	3167.81	2.19	0.00	0.81	3167.81	2.19	0.00
46	Structure - (51)	24.00	3167.70	2.19	0.00	0.81	3167.70	2.19	0.00
47	Structure - (54)	24.00	3166.27	1.98	0.00	1.02	3166.27	1.98	0.00
48	Structure - (55)	24.00	3166.17	1.98	0.00	1.02	3166.17	1.98	0.00
49	Structure - (56)	24.00	3166.10	1.98	0.00	1.02	3166.10	1.98	0.00
50	Structure - (57)	24.00	3165.99	1.98	0.00	1.02	3165.99	1.98	0.00
51	Structure - (58)	24.00	3165.89	1.98	0.00	1.02	3165.89	1.98	0.00
52	Structure - (582)	24.00	3167.63	2.19	0.00	2.81	3167.63	2.19	0.00
53	Structure - (583)	24.00	3166.58	1.44	0.00	3.56	3166.58	1.44	0.00
54	Structure - (584)	24.00	3166.29	1.44	0.00	3.56	3166.29	1.44	0.00
55	Structure - (585)	24.00	3166.34	1.98	0.00	3.02	3166.34	1.98	0.00
56	Structure - (59)	24.00	3165.87	1.99	0.00	1.02	3165.87	1.99	0.00
57	Structure - (6)	24.00	3171.92	2.20	0.00	0.80	3171.92	2.20	0.00
58	Structure - (60)	24.00	3165.84	1.98	0.00	1.02	3165.84	1.98	0.00
59	Structure - (61)	24.00	3165.80	1.98	0.00	1.02	3165.80	1.98	0.00
60	Structure - (62)	24.00	3165.59	1.98	0.00	1.02	3165.59	1.98	0.00
61	Structure - (63)-AP	24.00	3165.53	1.98	0.00	2.37	3165.53	1.98	0.00
62	Structure - (64)	24.00	3165.45	1.98	0.00	1.02	3165.45	1.98	0.00
63	Structure - (65)	24.00	3165.35	1.98	0.00	1.02	3165.35	1.98	0.00
64	Structure - (66)	24.00	3165.15	1.98	0.00	1.02	3165.15	1.98	0.00
65	Structure - (67)	24.00	3165.07	1.98	0.00	1.02	3165.07	1.98	0.00
66	Structure - (68)	24.00	3164.69	1.98	0.00	1.02	3164.69	1.98	0.00
67	Structure - (69)	24.00	3164.40	1.98	0.00	1.02	3164.40	1.98	0.00
68	Structure - (7)	24.00	3171.81	2.20	0.00	0.80	3171.81	2.20	0.00
69	Structure - (70)	24.00	3164.22	1.98	0.00	1.02	3164.22	1.98	0.00
70	Structure - (71)-AP	24.00	3164.04	1.98	0.00	2.46	3164.04	1.98	0.00
71	Structure - (72)	24.00	3163.97	1.99	0.00	1.02	3163.97	1.99	0.00
72	Structure - (73)	24.00	3163.74	2.03	0.00	0.97	3163.74	2.03	0.00
73	Structure - (74)	24.00	3163.69	2.03	0.00	0.97	3163.69	2.03	0.00
74	Structure - (75)	24.00	3163.58	2.03	0.00	0.97	3163.58	2.03	0.00
75	Structure - (8)	24.00	3171.71	2.22	0.00	0.78	3171.71	2.22	0.00
76	Structure - (80)	24.00	3167.97	2.20	0.00	0.80	3167.97	2.20	0.00
77	Structure - (9)	24.00	3171.57	2.22	0.00	0.78	3171.57	2.22	0.00

# Pipe Input

SN	Element ID	Length (ft)	Inlet Invert Elevation (ft)	Outlet Invert Elevation (ft)	Average Slope (%)	Pipe Diameter or Height (in)	Manning's Roughness	Entrance Losses	Exit/Bend Losses	Initial Flow (cfs)
1	Pipe - (1)	14.31	3169.99	3169.97	0.1400	36.000	0.0120	0.6000	0.6000	0.00
2	Pipe - (10)	50.95	3169.35	3169.28	0.1400	36.000	0.0120	0.6000	0.6000	0.00
3	Pipe - (11)	41.86	3169.28	3169.22	0.1400	36.000	0.0120	0.6000	0.6000	0.00
4	Pipe - (12)	40.35	3169.22	3169.16	0.1400	36.000	0.0120	0.6000	0.6000	0.00
5	Pipe - (13)	37.63	3169.16	3169.11	0.1400	36.000	0.0120	0.6000	0.6000	0.00
6	Pipe - (14)	139.02	3169.11	3168.91	0.1400	36.000	0.0120	0.6000	0.6000	0.00
7	Pipe - (15)	82.15	3168.91	3168.80	0.1400	36.000	0.0120	0.6000	0.6000	0.00
8	Pipe - (16)	66.09	3168.80	3168.70	0.1400	36.000	0.0120	0.6000	0.6000	0.00
9	Pipe - (17)	42.16	3168.70	3168.64	0.1400	36.000	0.0120	0.6000	0.6000	0.00
10	Pipe - (18)	29.59	3168.64	3168.60	0.1400	36.000	0.0120	0.6000	0.6000	0.00
11	Pipe - (19)	30.53	3168.60	3168.56	0.1400	36.000	0.0120	0.6000	0.6000	0.00
12	Pipe - (2)	32.72	3169.97	3169.93	0.1400	36.000	0.0120	0.6000	0.6000	0.00
13	Pipe - (20)	39.31	3168.56	3168.50	0.1400	36.000	0.0120	0.6000	0.6000	0.00
14	Pipe - (20) (1)	35.92	3168.50	3168.45	0.1400	36.000	0.0120	0.6000	0.6000	0.00
15	Pipe - (22)	70.89	3168.45	3168.35	0.1400	36.000	0.0120	0.6000	0.6000	0.00
16	Pipe - (23)	275.47	3168.35	3167.97	0.1400	36.000	0.0120	0.6000	0.6000	0.00
17	Pipe - (24)	29.65	3167.97	3167.92	0.1400	36.000	0.0120	0.6000	0.6000	0.00
18	Pipe - (25)	99.47	3167.92	3167.78	0.1400	36.000	0.0120	0.6000	0.6000	0.00
19	Pipe - (26)	22.81	3167.78	3167.75	0.1400	36.000	0.0120	0.6000	0.6000	0.00
20	Pipe - (27)	54.45	3167.75	3167.68	0.1400	36.000	0.0120	0.6000	0.6000	0.00
21	Pipe - (28)	61.44	3167.68	3167.59	0.1400	36.000	0.0120	0.6000	0.6000	0.00
22	Pipe - (29)	39.65	3167.59	3167.53	0.1400	36.000	0.0120	0.6000	0.6000	0.00
23	Pipe - (3)	81.90	3169.93	3169.81	0.1400	36.000	0.0120	0.6000	0.6000	0.00
24	Pipe - (30)	55.02	3167.53	3167.46	0.1400	36.000	0.0120	0.6000	0.6000	0.00
25	Pipe - (31)	108.89	3167.46	3167.30	0.1400	36.000	0.0120	0.6000	0.6000	0.00
26	Pipe - (32)	59.74	3167.30	3167.22	0.1400	36.000	0.0120	0.6000	0.6000	0.00
27	Pipe - (33)	70.38	3167.22	3167.12	0.1400	36.000	0.0120	0.6000	0.6000	0.00
28	Pipe - (34)	41.95	3167.12	3167.06	0.1400	36.000	0.0120	0.6000	0.6000	0.00
29	Pipe - (35)	78.99	3167.06	3166.95	0.1400	36.000	0.0120	0.6000	0.6000	0.00
30	Pipe - (36)	58.21	3166.95	3166.87	0.1400	36.000	0.0120	0.6000	0.6000	0.00
31	Pipe - (37)	25.67	3166.87	3166.83	0.1400	36.000	0.0120	0.6000	0.6000	0.00
32	Pipe - (38)	27.29	3166.83	3166.79	0.1400	36.000	0.0120	0.6000	0.6000	0.00
33	Pipe - (39)	28.04	3166.79	3166.75	0.1400	36.000	0.0120	0.6000	0.6000	0.00
34	Pipe - (4)	63.23	3169.81	3169.72	0.1400	36.000	0.0120	0.6000	0.6000	0.00
35	Pipe - (40)	31.43	3166.75	3166.71	0.1400	36.000	0.0120	0.6000	0.6000	0.00
36	Pipe - (41)	66.52	3166.71	3166.62	0.1400	36.000	0.0120	0.6000	0.6000	0.00
37	Pipe - (42)	39.15	3166.62	3166.56	0.1400	36.000	0.0120	0.6000	0.6000	0.00
38	Pipe - (43)	15.90	3166.56	3166.54	0.1400	36.000	0.0120	0.6000	0.6000	0.00
39	Pipe - (44)	46.77	3166.54	3166.47	0.1400	36.000	0.0120	0.6000	0.6000	0.00
40	Pipe - (45)	188.63	3166.47	3166.21	0.1400	36.000	0.0120	0.6000	0.6000	0.00
41	Pipe - (46)	76.81	3166.21	3166.10	0.1400	36.000	0.0120	0.6000	0.6000	0.00
42	Pipe - (47)	29.40	3166.10	3166.06	0.1400	36.000	0.0120	0.6000	0.6000	0.00
43	Pipe - (48)	183.69	3166.06	3165.80	0.1400	36.000	0.0120	0.6000	0.6000	0.00
44	Pipe - (49)	20.09	3165.80	3165.77	0.1400	36.000	0.0120	0.6000	0.6000	0.00
45	Pipe - (49) (1)	8.49	3165.77	3165.76	0.1400	36.000	0.0120	0.6000	0.6000	0.00
46	Pipe - (5)	76.91	3169.72	3169.61	0.1400	36.000	0.0120	0.6000	0.6000	0.00
47	Pipe - (50)	102.29	3165.76	3165.62	0.1400	36.000	0.0120	0.6000	0.6000	0.00
48	Pipe - (51)	77.08	3165.62	3165.51	0.1400	36.000	0.0120	0.6000	0.6000	0.00
49	Pipe - (52)	47.30	3165.51	3165.44	0.1400	36.000	0.0120	0.6000	0.6000	0.00
50	Pipe - (521)-CMP	41.08	3165.44	3165.14	0.7400	60.000	0.0220	0.6000	0.6000	0.00
51	Pipe - (522)-CMP	38.82	3165.14	3164.85	0.7400	60.000	0.0220	0.6000	0.6000	0.00
52	Pipe - (523)-CMP	65.73	3164.85	3164.36	0.7400	60.000	0.0220	0.6000	0.6000	0.00
53	Pipe - (53)	37.42	3164.36	3164.29	0.1800	36.000	0.0120	0.6000	0.6000	0.00
54	Pipe - (54)	52.42	3164.29	3164.19	0.1800	36.000	0.0120	0.6000	0.6000	0.00
55	Pipe - (55)	38.21	3164.19	3164.12	0.1800	36.000	0.0120	0.6000	0.6000	0.00
56	Pipe - (56)	60.97	3164.12	3164.01	0.1800	36.000	0.0120	0.6000	0.6000	0.00
57	Pipe - (57)	54.61	3164.01	3163.91	0.1800	36.000	0.0120	0.6000	0.6000	0.00
58	Pipe - (58)	14.17	3163.91	3163.88	0.1900	36.000	0.0120	0.6000	0.6000	0.00
59	Pipe - (59)	13.79	3163.88	3163.86	0.1800	36.000	0.0120	0.6000	0.6000	0.00
60	Pipe - (60)	22.05	3163.86	3163.82	0.1800	36.000	0.0120	0.6000	0.6000	0.00
61	Pipe - (61)	113.44	3163.82	3163.61	0.1800	36.000	0.0120	0.6000	0.6000	0.00
62	Pipe - (62)	33.09	3163.61	3163.55	0.1800	36.000	0.0120	0.6000	0.6000	0.00
63	Pipe - (63)	43.79	3163.55	3163.47	0.1900	36.000	0.0120	0.6000	0.6000	0.00
64	Pipe - (64)	51.34	3163.47	3163.37	0.1800	36.000	0.0120	0.6000	0.6000	0.00
65	Pipe - (65)	107.81	3163.37	3163.17	0.1800	36.000	0.0120	0.6000	0.6000	0.00
66	Pipe - (66)	43.97	3163.17	3163.09	0.1800	36.000	0.0120	0.6000	0.6000	0.00
67	Pipe - (67)	205.18	3163.09	3162.71	0.1800	36.000	0.0120	0.6000	0.6000	0.00
68	Pipe - (68)	160.33	3162.71	3162.42	0.1800	36.000	0.0120	0.6000	0.6000	0.00
69	Pipe - (69)	95.26	3162.42	3162.24	0.1800	36.000	0.0120	0.6000	0.6000	0.00
70	Pipe - (7)	87.53	3169.61	3169.49	0.1400	36.000	0.0120	0.6000	0.6000	0.00
71	Pipe - (70)	96.74	3162.24	3162.06	0.1800	36.000	0.0120	0.6000	0.6000	0.00
72	Pipe - (71)	41.62	3162.06	3161.98	0.1800	36.000	0.0120	0.6000	0.6000	0.00
73	Pipe - (72)	132.08	3161.98	3161.71	0.2100	36.000	0.0120	0.6000	0.6000	0.00
74	Pipe - (73)	29.50	3161.71	3161.66	0.1700	36.000	0.0120	0.6000	0.6000	0.00
75	Pipe - (74)	62.02	3161.66	3161.55	0.1700	36.000	0.0120	0.6000	0.6000	0.00
76	Pipe - (75)	141.24	3161.55	3161.31	0.1700	36.000	0.0120	0.6000	0.6000	0.00
77	Pipe - (8)	101.82	3169.49	3169.35	0.1400	36.000	0.0120	0.6000	0.6000	0.00

# Pipe Results

SN	Element ID	Peak Flow	Design Flow Capacity	Peak Flow / Design Flow Ratio	Peak Flow Velocity	Travel Time	Peak Flow Depth	Peak Flow Depth / Total Depth Ratio	Froude Number	Reported Condition
		(cfs)	(cfs)		(ft/sec)	(min)	(ft)			
1	Pipe - (1)	24.00	27.10	0.89	4.33	0.06	2.20	0.73		Calculated
2	Pipe - (10)	24.00	26.78	0.90	4.28	0.20	2.22	0.74		Calculated
3	Pipe - (11)	24.00	27.36	0.88	4.36	0.16	2.18	0.73		Calculated
4	Pipe - (12)	24.00	27.89	0.86	4.43	0.15	2.15	0.72		Calculated
5	Pipe - (13)	24.00	27.11	0.89	4.33	0.14	2.20	0.73		Calculated
6	Pipe - (14)	24.00	27.10	0.89	4.33	0.54	2.20	0.73		Calculated
7	Pipe - (15)	24.00	27.11	0.89	4.33	0.32	2.20	0.73		Calculated
8	Pipe - (16)	24.00	27.08	0.89	4.32	0.25	2.20	0.73		Calculated
9	Pipe - (17)	24.00	27.14	0.88	4.33	0.16	2.19	0.73		Calculated
10	Pipe - (18)	24.00	27.05	0.89	4.32	0.11	2.20	0.73		Calculated
11	Pipe - (19)	24.00	27.10	0.89	4.33	0.12	2.20	0.73		Calculated
12	Pipe - (2)	24.00	25.84	0.93	4.15	0.13	2.29	0.76		Calculated
13	Pipe - (20)	24.00	27.15	0.88	4.33	0.15	2.19	0.73		Calculated
14	Pipe - (20) (1)	24.00	27.04	0.89	4.32	0.14	2.20	0.73		Calculated
15	Pipe - (22)	24.00	27.15	0.88	4.33	0.27	2.19	0.73		Calculated
16	Pipe - (23)	24.00	27.10	0.89	4.33	1.06	2.20	0.73		Calculated
17	Pipe - (24)	24.00	27.08	0.89	4.32	0.11	2.20	0.73		Calculated
18	Pipe - (25)	24.00	27.12	0.89	4.33	0.38	2.20	0.73		Calculated
19	Pipe - (26)	24.00	27.12	0.88	4.33	0.09	2.20	0.73		Calculated
20	Pipe - (27)	24.00	27.09	0.89	4.33	0.21	2.20	0.73		Calculated
21	Pipe - (28)	24.00	27.11	0.89	4.33	0.24	2.20	0.73		Calculated
22	Pipe - (29)	24.00	27.10	0.89	4.33	0.15	2.20	0.73		Calculated
23	Pipe - (3)	24.00	27.59	0.87	4.39	0.31	2.16	0.72		Calculated
24	Pipe - (30)	24.00	27.10	0.89	4.33	0.21	2.20	0.73		Calculated
25	Pipe - (31)	24.00	27.08	0.89	4.32	0.42	2.20	0.73		Calculated
26	Pipe - (32)	24.00	27.12	0.88	4.33	0.23	2.20	0.73		Calculated
27	Pipe - (33)	24.00	27.11	0.89	4.33	0.27	2.20	0.73		Calculated
28	Pipe - (34)	24.00	27.08	0.89	4.32	0.16	2.20	0.73		Calculated
29	Pipe - (35)	24.00	27.08	0.89	4.32	0.30	2.20	0.73		Calculated
30	Pipe - (36)	24.00	27.11	0.89	4.33	0.22	2.20	0.73		Calculated
31	Pipe - (37)	24.00	26.95	0.89	4.31	0.10	2.21	0.74		Calculated
32	Pipe - (38)	24.00	27.33	0.88	4.36	0.10	2.18	0.73		Calculated
33	Pipe - (39)	24.00	27.11	0.89	4.33	0.11	2.20	0.73		Calculated
34	Pipe - (4)	24.00	27.10	0.89	4.33	0.24	2.20	0.73		Calculated
35	Pipe - (40)	24.00	27.04	0.89	4.32	0.12	2.20	0.73		Calculated
36	Pipe - (41)	24.00	27.13	0.88	4.33	0.26	2.20	0.73		Calculated
37	Pipe - (42)	24.00	27.02	0.89	4.32	0.15	2.20	0.73		Calculated
38	Pipe - (43)	24.00	27.20	0.88	4.34	0.06	2.19	0.73		Calculated
39	Pipe - (44)	24.00	27.08	0.89	4.32	0.18	2.20	0.73		Calculated
40	Pipe - (45)	24.00	27.10	0.89	4.33	0.73	2.20	0.73		Calculated
41	Pipe - (46)	24.00	27.13	0.88	4.33	0.30	2.19	0.73		Calculated
42	Pipe - (47)	24.00	27.21	0.88	4.34	0.11	2.19	0.73		Calculated
43	Pipe - (48)	24.00	27.07	0.89	4.32	0.71	2.20	0.73		Calculated
44	Pipe - (49)	24.00	27.18	0.88	4.34	0.08	2.19	0.73		Calculated
45	Pipe - (49) (1)	24.00	27.08	0.89	4.32	0.03	2.20	0.73		Calculated
46	Pipe - (5)	24.00	27.10	0.89	4.33	0.30	2.20	0.73		Calculated
47	Pipe - (50)	24.00	27.08	0.89	4.32	0.39	2.20	0.73		Calculated
48	Pipe - (51)	24.00	27.11	0.89	4.33	0.30	2.20	0.73		Calculated
49	Pipe - (52)	24.00	27.15	0.88	4.33	0.18	2.19	0.73		Calculated
50	Pipe - (521)-CMP	24.00	132.30	0.18	5.10	0.13	1.45	0.29		Calculated
51	Pipe - (522)-CMP	24.00	132.59	0.18	5.11	0.13	1.44	0.29		Calculated
52	Pipe - (523)-CMP	24.00	132.64	0.18	5.11	0.21	1.44	0.29		Calculated
53	Pipe - (53)	24.00	31.03	0.77	4.85	0.13	1.98	0.66		Calculated
54	Pipe - (54)	24.00	31.08	0.77	4.85	0.18	1.98	0.66		Calculated
55	Pipe - (55)	24.00	31.05	0.77	4.85	0.13	1.98	0.66		Calculated
56	Pipe - (56)	24.00	31.04	0.77	4.85	0.21	1.98	0.66		Calculated
57	Pipe - (57)	24.00	31.04	0.77	4.85	0.19	1.98	0.66		Calculated
58	Pipe - (58)	24.00	31.12	0.77	4.86	0.05	1.98	0.66		Calculated
59	Pipe - (59)	24.00	30.98	0.77	4.84	0.05	1.98	0.66		Calculated
60	Pipe - (60)	24.00	31.06	0.77	4.85	0.08	1.98	0.66		Calculated
61	Pipe - (61)	24.00	31.07	0.77	4.85	0.39	1.98	0.66		Calculated
62	Pipe - (62)	24.00	30.99	0.77	4.84	0.11	1.98	0.66		Calculated
63	Pipe - (63)	24.00	31.10	0.77	4.86	0.15	1.98	0.66		Calculated
64	Pipe - (64)	24.00	31.05	0.77	4.85	0.18	1.98	0.66		Calculated
65	Pipe - (65)	24.00	31.06	0.77	4.85	0.37	1.98	0.66		Calculated
66	Pipe - (66)	24.00	31.06	0.77	4.85	0.15	1.98	0.66		Calculated
67	Pipe - (67)	24.00	31.06	0.77	4.85	0.71	1.98	0.66		Calculated
68	Pipe - (68)	24.00	31.05	0.77	4.85	0.55	1.98	0.66		Calculated
69	Pipe - (69)	24.00	31.06	0.77	4.85	0.33	1.98	0.66		Calculated
70	Pipe - (7)	24.00	27.10	0.89	4.33	0.34	2.20	0.73		Calculated
71	Pipe - (70)	24.00	31.07	0.77	4.85	0.33	1.98	0.66		Calculated
72	Pipe - (71)	24.00	31.02	0.77	4.85	0.14	1.98	0.66		Calculated
73	Pipe - (72)	24.00	32.82	0.73	5.07	0.43	1.91	0.64		Calculated
74	Pipe - (73)	24.00	30.01	0.80	4.72	0.10	2.03	0.68		Calculated
75	Pipe - (74)	24.00	30.01	0.80	4.72	0.22	2.03	0.68		Calculated
76	Pipe - (75)	24.00	30.01	0.80	4.72	0.50	2.03	0.68		Calculated
77	Pipe - (8)	24.00	26.82	0.89	4.29	0.40	2.22	0.74		Calculated

## Project Description

File Name ..... Section2.SPF

## Number of Elements

	Qty
Rain Gages .....	0
Subbasins.....	0
Nodes.....	213
<i>Junctions</i> .....	212
<i>Outfalls</i> .....	1
<i>Flow Diversions</i> .....	0
<i>Inlets</i> .....	0
<i>Storage Nodes</i> .....	0
Links.....	212
<i>Channels</i> .....	0
<i>Pipes</i> .....	212
<i>Pumps</i> .....	0
<i>Orifices</i> .....	0
<i>Weirs</i> .....	0
<i>Outlets</i> .....	0
Pollutants .....	0
Land Uses .....	0

## Node Summary

SN	Element ID	Element Type	Invert Elevation	Ground/Rim (Max) Elevation	Initial Water Elevation	Surcharge Elevation	Peak Inflow	Max HGL Elevation Attained
			(ft)	(ft)	(ft)	(ft)	(cfs)	(ft)
1	OroleveSiphonOutlet	Junction	3160.08	3163.08	3159.99	3163.25	24.00	3162.25
2	Structure - (100)	Junction	3158.77	3161.77	3158.75	3162.00	24.00	3161.12
3	Structure - (101)	Junction	3158.68	3161.68	3158.67	3161.92	24.00	3161.05
4	Structure - (102)	Junction	3158.45	3161.45	3158.45	3162.15	24.00	3160.85
5	Structure - (103)	Junction	3158.34	3161.34	3158.42	3162.31	24.00	3160.74
6	Structure - (104)	Junction	3158.22	3161.22	3158.32	3161.67	24.00	3160.53
7	Structure - (105)	Junction	3158.17	3161.17	3158.34	3161.60	24.00	3160.37
8	Structure - (106)	Junction	3158.14	3161.14	3158.31	3161.56	24.00	3160.39
9	Structure - (107)	Junction	3158.09	3161.09	3158.23	3161.49	24.00	3160.49
10	Structure - (108)	Junction	3158.05	3161.05	3158.16	3161.86	24.00	3160.45
11	Structure - (109)	Junction	3157.93	3160.93	3158.14	3161.90	24.00	3160.24
12	Structure - (110)	Junction	3157.87	3160.87	3158.13	3161.38	24.00	3160.17
13	Structure - (111)	Junction	3157.84	3160.84	3158.09	3161.35	24.00	3160.20
14	Structure - (112)	Junction	3157.79	3160.79	3158.03	3161.29	24.00	3160.15
15	Structure - (113)	Junction	3157.77	3160.77	3158.01	3161.26	24.00	3160.09
16	Structure - (114)	Junction	3157.73	3160.73	3157.96	3161.66	24.00	3160.06
17	Structure - (116)	Junction	3157.10	3160.10	3156.82	3162.60	24.00	3159.10
18	Structure - (117)	Junction	3157.05	3160.05	3156.81	3160.13	24.00	3159.05
19	Structure - (118)	Junction	3157.00	3160.00	3156.81	3160.18	24.00	3159.26
20	Structure - (119)	Junction	3156.95	3159.95	3156.81	3160.25	24.00	3159.34
21	Structure - (120)	Junction	3156.81	3159.81	3156.81	3160.93	24.00	3159.20
22	Structure - (121)	Junction	3156.56	3160.26	3156.56	3160.26	24.00	3158.34
23	Structure - (122)	Junction	3156.35	3159.60	3156.35	3159.60	24.00	3158.12
24	Structure - (123)	Junction	3156.26	3159.52	3156.26	3159.52	24.00	3158.03
25	Structure - (124)	Junction	3156.15	3159.40	3156.15	3159.40	24.00	3157.92
26	Structure - (125)	Junction	3155.93	3159.19	3155.93	3159.19	24.00	3157.70
27	Structure - (126)	Junction	3155.39	3158.65	3155.39	3158.65	24.00	3157.16
28	Structure - (127)	Junction	3154.74	3159.30	3154.74	3159.30	24.00	3156.51
29	Structure - (128)	Junction	3154.38	3157.64	3154.38	3157.64	24.00	3156.15
30	Structure - (129)	Junction	3154.24	3157.49	3154.24	3157.49	24.00	3156.01
31	Structure - (130)	Junction	3154.17	3157.43	3154.17	3157.43	24.00	3155.94
32	Structure - (131)	Junction	3154.10	3157.35	3154.10	3157.35	24.00	3155.87
33	Structure - (132)	Junction	3154.07	3157.32	3154.07	3157.32	24.00	3155.84
34	Structure - (133)	Junction	3153.87	3157.12	3153.87	3157.12	24.00	3155.64
35	Structure - (134)	Junction	3153.81	3157.06	3153.81	3157.06	24.00	3155.58
36	Structure - (135)	Junction	3153.54	3156.80	3153.54	3156.80	24.00	3155.31
37	Structure - (136)	Junction	3153.37	3157.70	3153.37	3157.70	24.00	3155.52
38	Structure - (137)	Junction	3153.34	3157.67	3153.34	3157.67	24.00	3155.49
39	Structure - (138)	Junction	3153.14	3156.39	3153.14	3156.39	24.00	3155.27
40	Structure - (139)	Junction	3153.00	3156.26	3153.00	3156.26	24.00	3155.36
41	Structure - (140)	Junction	3152.92	3156.17	3152.92	3156.17	24.00	3155.27
42	Structure - (141)	Junction	3152.84	3156.09	3152.84	3156.09	24.00	3154.98
43	Structure - (142)	Junction	3152.60	3157.10	3152.60	3157.10	24.00	3154.74
44	Structure - (143)	Junction	3152.54	3155.79	3152.54	3155.79	24.00	3154.68
45	Structure - (144)	Junction	3152.44	3155.69	3152.44	3155.69	24.00	3154.58
46	Structure - (145)	Junction	3152.36	3155.62	3152.36	3155.62	24.00	3154.50
47	Structure - (146)	Junction	3152.22	3155.47	3152.22	3155.47	24.00	3154.36
48	Structure - (147)	Junction	3151.96	3155.21	3151.96	3155.21	24.00	3154.09
49	Structure - (148)	Junction	3151.86	3155.12	3151.86	3155.12	24.00	3154.00
50	Structure - (149)	Junction	3151.80	3155.06	3151.80	3155.06	24.00	3153.98
51	Structure - (150)	Junction	3151.76	3155.02	3151.76	3155.02	24.00	3153.94
52	Structure - (152)	Junction	3151.60	3154.86	3151.60	3154.86	24.00	3153.69
53	Structure - (153)	Junction	3151.26	3154.51	3151.26	3154.51	24.00	3153.33
54	Structure - (154)	Junction	3151.14	3154.40	3151.14	3154.40	24.00	3153.21
55	Structure - (155)	Junction	3150.98	3155.50	3150.98	3155.50	24.00	3153.05
56	Structure - (156)	Junction	3150.70	3153.96	3150.70	3153.96	24.00	3152.77
57	Structure - (157)	Junction	3150.63	3153.89	3150.63	3153.89	24.00	3152.70
58	Structure - (158)	Junction	3150.40	3153.65	3150.40	3153.65	24.00	3152.47
59	Structure - (159)	Junction	3150.26	3153.51	3150.26	3153.51	24.00	3152.33
60	Structure - (160)	Junction	3150.24	3153.49	3150.24	3153.49	24.00	3152.31
61	Structure - (161)	Junction	3150.18	3153.44	3150.18	3153.44	24.00	3152.25
62	Structure - (162)	Junction	3150.05	3153.31	3150.05	3153.31	24.00	3152.12
63	Structure - (163)	Junction	3150.04	3154.37	3150.04	3154.37	24.00	3152.11
64	Structure - (164)	Junction	3149.96	3154.29	3149.96	3154.29	24.00	3151.95
65	Structure - (166)	Junction	3149.81	3153.06	3149.81	3153.06	24.00	3151.80
66	Structure - (167)	Junction	3149.73	3152.99	3149.73	3152.99	24.00	3151.72
67	Structure - (168)	Junction	3149.65	3152.90	3149.65	3152.90	24.00	3151.64
68	Structure - (169)	Junction	3149.46	3154.00	3149.46	3154.00	24.00	3151.45
69	Structure - (170)	Junction	3149.14	3152.39	3149.14	3152.39	24.00	3151.13
70	Structure - (171)	Junction	3148.87	3152.12	3148.87	3152.12	24.00	3150.85
71	Structure - (172)	Junction	3148.69	3151.95	3148.69	3151.95	24.00	3150.68
72	Structure - (173)	Junction	3148.32	3151.58	3148.32	3151.58	24.00	3150.31
73	Structure - (174)	Junction	3148.19	3151.45	3148.19	3151.45	24.00	3150.18
74	Structure - (175)	Junction	3147.51	3152.00	3147.51	3152.00	24.00	3149.50
75	Structure - (176)	Junction	3147.44	3150.69	3147.44	3150.69	24.00	3149.43
76	Structure - (177)	Junction	3147.37	3150.63	3147.37	3150.63	24.00	3149.36
77	Structure - (178)	Junction	3147.27	3150.52	3147.27	3150.52	24.00	3149.26
78	Structure - (179)	Junction	3147.07	3150.32	3147.07	3150.32	24.00	3149.06
79	Structure - (180)	Junction	3146.87	3150.12	3146.87	3150.12	24.00	3148.86
80	Structure - (181)	Junction	3146.61	3149.87	3146.61	3149.87	24.00	3148.60
81	Structure - (182)	Junction	3146.37	3149.63	3146.37	3149.63	24.00	3148.36



## Node Summary

SN	Element ID	Element Type	Invert Elevation	Ground/Rim (Max) Elevation	Initial Water Elevation	Surcharge Elevation	Peak Inflow	Max HGL Elevation Attained
			(ft)	(ft)	(ft)	(ft)	(cfs)	(ft)
82	Structure - (183)	Junction	3146.35	3149.60	3146.35	3149.60	24.00	3148.33
83	Structure - (184)	Junction	3146.29	3149.55	3146.29	3149.55	24.00	3148.28
84	Structure - (185)	Junction	3146.17	3149.43	3146.17	3149.43	24.00	3148.16
85	Structure - (186)	Junction	3146.01	3149.26	3146.01	3149.26	24.00	3148.00
86	Structure - (187)	Junction	3145.83	3150.16	3145.83	3150.16	24.00	3147.82
87	Structure - (188)	Junction	3145.72	3150.20	3145.72	3150.20	24.00	3147.71
88	Structure - (189)	Junction	3145.71	3148.96	3145.71	3148.96	24.00	3147.70
89	Structure - (190)	Junction	3145.56	3148.81	3145.56	3148.81	24.00	3147.55
90	Structure - (191)	Junction	3145.49	3148.75	3145.49	3148.75	24.00	3147.48
91	Structure - (192)	Junction	3145.18	3148.43	3145.18	3148.43	24.00	3147.17
92	Structure - (193)	Junction	3145.08	3148.34	3145.08	3148.34	24.00	3147.07
93	Structure - (195)	Junction	3144.65	3147.90	3144.65	3147.90	24.00	3146.63
94	Structure - (196)	Junction	3144.58	3147.84	3144.58	3147.84	24.00	3146.57
95	Structure - (197)	Junction	3144.35	3147.61	3144.35	3147.61	24.00	3146.34
96	Structure - (198)	Junction	3144.31	3147.57	3144.31	3147.57	24.00	3146.30
97	Structure - (199)	Junction	3144.21	3147.46	3144.21	3147.46	24.00	3146.19
98	Structure - (200)	Junction	3144.11	3147.36	3144.11	3147.36	24.00	3146.10
99	Structure - (201)	Junction	3143.99	3148.50	3143.99	3148.50	24.00	3145.97
100	Structure - (202)	Junction	3143.85	3147.11	3143.85	3147.11	24.00	3145.84
101	Structure - (203)	Junction	3143.76	3147.02	3143.76	3147.02	24.00	3145.75
102	Structure - (204)	Junction	3143.66	3146.91	3143.66	3146.91	24.00	3145.64
103	Structure - (205)	Junction	3143.54	3146.80	3143.54	3146.80	24.00	3145.53
104	Structure - (206)	Junction	3143.20	3146.46	3143.20	3146.46	24.00	3145.19
105	Structure - (207)	Junction	3142.93	3146.19	3142.93	3146.19	24.00	3144.92
106	Structure - (208)	Junction	3142.41	3145.67	3142.41	3145.67	24.00	3144.40
107	Structure - (209)	Junction	3142.34	3146.04	3142.34	3146.04	24.00	3144.33
108	Structure - (210)	Junction	3142.24	3145.94	3142.24	3145.94	24.00	3144.13
109	Structure - (211)	Junction	3142.14	3145.39	3142.14	3145.39	24.00	3143.99
110	Structure - (212)	Junction	3141.78	3146.30	3141.78	3146.30	24.00	3143.64
111	Structure - (213)	Junction	3141.20	3144.45	3141.20	3144.45	24.00	3143.05
112	Structure - (214)	Junction	3140.81	3144.06	3140.81	3144.06	24.00	3142.66
113	Structure - (215)	Junction	3140.33	3143.59	3140.33	3143.59	24.00	3142.19
114	Structure - (216)	Junction	3140.12	3143.38	3140.12	3143.38	24.00	3141.97
115	Structure - (217)	Junction	3139.97	3143.23	3139.97	3143.23	24.00	3141.83
116	Structure - (218)	Junction	3139.85	3143.11	3139.85	3143.11	24.00	3141.71
117	Structure - (219)	Junction	3139.75	3143.01	3139.75	3143.01	24.00	3141.61
118	Structure - (220)	Junction	3139.55	3142.80	3139.55	3142.80	24.00	3141.41
119	Structure - (221)	Junction	3139.73	3144.20	3139.73	3144.20	24.00	3141.59
120	Structure - (222)	Junction	3139.60	3142.85	3139.60	3142.85	24.00	3141.45
121	Structure - (223)	Junction	3139.53	3142.78	3139.53	3142.78	24.00	3141.38
122	Structure - (224)	Junction	3139.44	3142.70	3139.44	3142.70	24.00	3141.30
123	Structure - (225)	Junction	3139.42	3142.68	3139.42	3142.68	24.00	3141.28
124	Structure - (226)	Junction	3139.40	3142.65	3139.40	3142.65	24.00	3141.25
125	Structure - (227)	Junction	3139.20	3142.45	3139.20	3142.45	24.00	3141.05
126	Structure - (228)	Junction	3138.90	3142.16	3138.90	3142.16	24.00	3140.76
127	Structure - (229)	Junction	3138.75	3142.01	3138.75	3142.01	24.00	3140.61
128	Structure - (230)	Junction	3138.67	3141.93	3138.67	3141.93	24.00	3140.53
129	Structure - (231)	Junction	3138.46	3141.71	3138.46	3141.71	24.00	3140.31
130	Structure - (232)	Junction	3138.31	3141.56	3138.31	3141.56	24.00	3140.16
131	Structure - (233)	Junction	3138.14	3141.40	3138.14	3141.40	24.00	3140.00
132	Structure - (234)	Junction	3138.10	3141.35	3138.10	3141.35	24.00	3139.95
133	Structure - (235)	Junction	3138.00	3142.33	3138.00	3142.33	24.00	3139.85
134	Structure - (236)	Junction	3137.78	3142.11	3137.78	3142.11	24.00	3139.88
135	Structure - (238)	Junction	3137.65	3140.90	3137.65	3140.90	24.00	3139.74
136	Structure - (239)	Junction	3137.50	3142.00	3137.50	3142.00	24.00	3139.57
137	Structure - (240)	Junction	3137.31	3140.56	3137.31	3140.56	24.00	3139.38
138	Structure - (241)	Junction	3137.27	3140.52	3137.27	3140.52	24.00	3139.35
139	Structure - (242)	Junction	3137.23	3140.48	3137.23	3140.48	24.00	3139.31
140	Structure - (243)	Junction	3137.19	3140.44	3137.19	3140.44	24.00	3139.27
141	Structure - (244)	Junction	3137.09	3140.35	3137.09	3140.35	24.00	3139.17
142	Structure - (245)	Junction	3137.04	3140.30	3137.04	3140.30	24.00	3139.12
143	Structure - (246)	Junction	3136.98	3140.23	3136.98	3140.23	24.00	3139.05
144	Structure - (247)	Junction	3136.89	3140.14	3136.89	3140.14	24.00	3138.97
145	Structure - (248)	Junction	3136.61	3139.87	3136.61	3139.87	24.00	3138.69
146	Structure - (249)	Junction	3136.43	3139.68	3136.43	3139.68	24.00	3138.50
147	Structure - (250)	Junction	3136.35	3139.60	3136.35	3139.60	24.00	3138.42
148	Structure - (251)	Junction	3136.30	3139.56	3136.30	3139.56	24.00	3138.38
149	Structure - (252)	Junction	3136.17	3139.43	3136.17	3139.43	24.00	3138.25
150	Structure - (253)	Junction	3136.02	3139.28	3136.02	3139.28	24.00	3138.10
151	Structure - (254)	Junction	3135.63	3138.89	3135.63	3138.89	24.00	3137.71
152	Structure - (255)	Junction	3135.24	3138.49	3135.24	3138.49	24.00	3137.31
153	Structure - (257)	Junction	3134.60	3137.86	3134.60	3137.86	24.00	3136.68
154	Structure - (258)	Junction	3134.47	3137.72	3134.47	3137.72	24.00	3136.54
155	Structure - (259)	Junction	3134.17	3138.70	3134.17	3138.70	24.00	3136.25
156	Structure - (260)	Junction	3134.15	3137.41	3134.15	3137.41	24.00	3136.23
157	Structure - (261)	Junction	3134.03	3137.29	3134.03	3137.29	24.00	3136.11
158	Structure - (262)	Junction	3133.85	3137.10	3133.85	3137.10	24.00	3135.92
159	Structure - (263)	Junction	3133.53	3136.78	3133.53	3136.78	24.00	3135.60
160	Structure - (264)	Junction	3133.40	3136.66	3133.40	3136.66	24.00	3135.48
161	Structure - (265)	Junction	3133.13	3136.39	3133.13	3136.39	24.00	3135.21
162	Structure - (266)	Junction	3132.95	3136.20	3132.95	3136.20	24.00	3135.02

## Node Summary

SN Element ID	Element Type	Invert Elevation	Ground/Rim (Max) Elevation	Initial Water Elevation	Surcharge Elevation	Peak Inflow	Max HGL Elevation Attained
		(ft)	(ft)	(ft)	(ft)	(cfs)	(ft)
163 Structure - (267)	Junction	3132.90	3136.15	3132.90	3136.15	24.00	3134.97
164 Structure - (268)	Junction	3132.79	3136.05	3132.79	3136.05	24.00	3134.88
165 Structure - (269)	Junction	3132.58	3137.10	3132.58	3137.10	24.00	3134.66
166 Structure - (270)	Junction	3132.32	3135.58	3132.32	3135.58	24.00	3134.33
167 Structure - (271)	Junction	3132.30	3135.55	3132.30	3135.55	24.00	3134.30
168 Structure - (273)	Junction	3131.95	3135.21	3131.95	3135.21	24.00	3133.96
169 Structure - (274)	Junction	3131.86	3135.11	3131.86	3135.11	24.00	3133.86
170 Structure - (275)	Junction	3131.77	3135.02	3131.77	3135.02	24.00	3133.77
171 Structure - (276)	Junction	3131.69	3134.94	3131.69	3134.94	24.00	3133.71
172 Structure - (277)	Junction	3131.67	3134.93	3131.67	3134.93	24.00	3133.69
173 Structure - (278)	Junction	3131.57	3134.83	3131.57	3134.83	24.00	3133.58
174 Structure - (279)	Junction	3131.31	3134.56	3131.31	3134.56	24.00	3133.31
175 Structure - (280)	Junction	3131.28	3134.53	3131.28	3134.53	24.00	3133.28
176 Structure - (281)	Junction	3131.15	3134.40	3131.15	3134.40	24.00	3133.15
177 Structure - (282)	Junction	3131.01	3134.26	3131.01	3134.26	24.00	3133.01
178 Structure - (283)	Junction	3130.62	3133.88	3130.62	3133.88	24.00	3132.63
179 Structure - (284)	Junction	3130.41	3133.67	3130.41	3133.67	24.00	3132.42
180 Structure - (285)	Junction	3130.16	3133.42	3130.16	3133.42	24.00	3132.17
181 Structure - (286)	Junction	3129.95	3133.20	3129.95	3133.20	24.00	3131.96
182 Structure - (287)	Junction	3129.65	3132.91	3129.65	3132.91	24.00	3131.66
183 Structure - (288)	Junction	3129.36	3132.62	3129.36	3132.62	24.00	3131.37
184 Structure - (289)	Junction	3129.24	3132.50	3129.24	3132.50	24.00	3131.25
185 Structure - (290)	Junction	3129.01	3133.50	3129.01	3133.50	24.00	3131.01
186 Structure - (291)	Junction	3128.73	3131.98	3128.73	3131.98	24.00	3130.73
187 Structure - (292)	Junction	3128.43	3131.69	3128.43	3131.69	24.00	3130.44
188 Structure - (571)	Junction	3135.85	3140.40	3135.85	3140.40	24.00	3137.93
189 Structure - (572)	Junction	3130.80	3135.30	3130.80	3135.30	24.00	3132.80
190 Structure - (592)	Junction	3151.75	3156.08	3151.75	3156.08	24.00	3153.89
191 Structure - (593)	Junction	3151.61	3155.94	3151.61	3155.94	24.00	3153.70
192 Structure - (594)	Junction	3157.95	3160.95	3158.14	3161.89	24.00	3160.26
193 Structure - (595)	Junction	3157.63	3160.63	3157.78	3161.49	24.00	3159.96
194 Structure - (596)	Junction	3157.30	3160.30	3156.95	3161.18	24.00	3159.20
195 Structure - (82)	Junction	3160.05	3163.31	3160.05	3163.31	24.00	3162.34
196 Structure - (83)	Junction	3159.91	3163.17	3159.91	3163.17	24.00	3162.20
197 Structure - (84)	Junction	3159.71	3162.71	3159.72	3162.98	24.00	3161.98
198 Structure - (85)	Junction	3159.60	3162.60	3159.61	3162.86	24.00	3161.89
199 Structure - (86)	Junction	3159.51	3162.51	3159.52	3162.78	24.00	3161.80
200 Structure - (87)	Junction	3159.48	3162.48	3159.50	3162.75	24.00	3161.71
201 Structure - (88)	Junction	3159.37	3162.37	3159.39	3162.64	24.00	3161.63
202 Structure - (89)	Junction	3159.34	3162.34	3159.36	3162.62	24.00	3161.60
203 Structure - (90)	Junction	3159.31	3162.31	3159.34	3162.59	24.00	3161.65
204 Structure - (91)	Junction	3159.26	3162.26	3159.29	3162.55	24.00	3161.60
205 Structure - (92)	Junction	3159.18	3162.18	3159.21	3162.47	24.00	3161.49
206 Structure - (93)	Junction	3159.13	3162.13	3159.17	3162.42	24.00	3161.43
207 Structure - (94)	Junction	3159.09	3162.09	3159.13	3162.39	24.00	3161.39
208 Structure - (95)	Junction	3159.05	3162.05	3159.09	3162.35	24.00	3161.29
209 Structure - (96)	Junction	3159.02	3162.02	3159.06	3162.33	24.00	3161.41
210 Structure - (97)	Junction	3158.92	3161.92	3158.88	3162.14	24.00	3161.31
211 Structure - (98)	Junction	3158.86	3161.86	3158.83	3163.30	24.00	3161.21
212 Structure - (99)	Junction	3158.81	3161.81	3158.79	3162.04	24.00	3161.15
213 Outlet-WoodleafSiphonInlet	Outfall	3128.31				24.00	3130.31

## 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 (in)	Manning's Roughness	Peak Flow (cfs)	Design Flow Capacity (cfs)	Peak Flow Velocity (ft/sec)	Peak Flow Reported Depth (ft)	Condition
1	Pipe	Structure - (103)	Structure - (104)	95.97	3158.34	3158.22	0.1300	36.000	0.0120	24.00	25.55	4.11	2.31	Calculated
2	Pipe	Structure - (102)	Structure - (103)	95.21	3158.45	3158.34	0.1200	36.000	0.0120	24.00	24.56	3.96	2.40	Calculated
3	Pipe	Structure - (104)	Structure - (105)	35.62	3158.22	3158.17	0.1400	36.000	0.0120	24.00	27.07	4.32	2.20	Calculated
4	Pipe	Structure - (105)	Structure - (106)	18.05	3158.17	3158.14	0.1700	36.000	0.0120	24.00	29.46	4.64	2.06	Calculated
5	Pipe	Structure - (106)	Structure - (107)	37.45	3158.14	3158.09	0.1300	36.000	0.0120	24.00	26.40	4.23	2.25	Calculated
6	Pipe	Structure - (107)	Structure - (108)	34.66	3158.09	3158.05	0.1200	36.000	0.0120	24.00	24.55	3.96	2.40	Calculated
7	Pipe	Structure - (108)	Structure - (594)	79.43	3158.05	3157.95	0.1300	36.000	0.0120	24.00	25.64	4.12	2.30	Calculated
8	Pipe	Structure - (109)	Structure - (110)	47.62	3157.93	3157.87	0.1300	36.000	0.0120	24.00	25.65	4.12	2.30	Calculated
9	Pipe	Structure - (594)	Structure - (109)	16.00	3157.95	3157.93	0.1200	36.000	0.0120	24.00	25.55	4.11	2.31	Calculated
10	Pipe	Structure - (110)	Structure - (111)	23.07	3157.87	3157.84	0.1300	36.000	0.0120	24.00	26.06	4.18	2.27	Calculated
11	Pipe	Structure - (111)	Structure - (112)	41.68	3157.84	3157.79	0.1200	36.000	0.0120	24.00	25.03	4.03	2.36	Calculated
12	Pipe	Structure - (112)	Structure - (113)	15.01	3157.79	3157.77	0.1300	36.000	0.0120	24.00	26.38	4.23	2.25	Calculated
13	Pipe	Structure - (113)	Structure - (114)	32.16	3157.77	3157.73	0.1200	36.000	0.0120	24.00	25.48	4.10	2.32	Calculated
14	Pipe	Structure - (114)	Structure - (595)	81.51	3157.73	3157.63	0.1200	36.000	0.0120	24.00	25.31	4.07	2.33	Calculated
15	Pipe	Structure - (596)	Structure - (116)	175.95	3157.30	3157.10	0.1100	48.000	0.0120	24.00	52.47	4.08	1.90	Calculated
16	Pipe	Structure - (595)	Structure - (596)	128.31	3157.63	3157.30	0.2600	36.000	0.0120	24.00	36.64	5.52	1.77	Calculated
17	Pipe	Structure - (116)	Structure - (117)	27.92	3157.10	3157.05	0.1800	36.000	0.0120	24.00	30.58	4.79	2.00	Calculated
18	Pipe	Structure - (117)	Structure - (118)	24.40	3157.05	3157.00	0.2000	36.000	0.0120	24.00	32.71	5.06	1.91	Calculated
19	Pipe	Structure - (118)	Structure - (119)	37.92	3157.00	3156.95	0.1300	36.000	0.0120	24.00	26.24	4.21	2.26	Calculated
20	Pipe	Structure - (119)	Structure - (120)	119.83	3156.95	3156.81	0.1200	36.000	0.0120	24.00	24.70	3.98	2.39	Calculated
21	Pipe	Structure - (120)	Structure - (121)	51.66	3156.81	3156.56	0.4800	36.000	0.0120	24.00	50.27	7.03	1.46	Calculated
22	Pipe	Structure - (121)	Structure - (122)	84.00	3156.56	3156.35	0.2500	36.000	0.0120	24.00	36.45	5.50	1.78	Calculated
23	Pipe	Structure - (122)	Structure - (123)	33.36	3156.35	3156.26	0.2600	36.000	0.0120	24.00	36.73	5.53	1.77	Calculated
24	Pipe	Structure - (123)	Structure - (124)	44.04	3156.26	3156.15	0.2600	36.000	0.0120	24.00	36.69	5.53	1.77	Calculated
25	Pipe	Structure - (124)	Structure - (125)	83.78	3156.15	3155.93	0.2600	36.000	0.0120	24.00	36.70	5.53	1.77	Calculated
26	Pipe	Structure - (125)	Structure - (126)	208.66	3155.93	3155.39	0.2600	36.000	0.0120	24.00	36.71	5.53	1.77	Calculated
27	Pipe	Structure - (126)	Structure - (127)	250.61	3155.39	3154.74	0.2600	36.000	0.0120	24.00	36.72	5.53	1.77	Calculated
28	Pipe	Structure - (127)	Structure - (128)	140.83	3154.74	3154.38	0.2600	36.000	0.0120	24.00	36.72	5.53	1.77	Calculated
29	Pipe	Structure - (128)	Structure - (129)	55.04	3154.38	3154.24	0.2600	36.000	0.0120	24.00	36.70	5.53	1.77	Calculated
30	Pipe	Structure - (129)	Structure - (130)	26.16	3154.24	3154.17	0.2600	36.000	0.0120	24.00	36.74	5.54	1.77	Calculated
31	Pipe	Structure - (130)	Structure - (131)	28.87	3154.17	3154.10	0.2600	36.000	0.0120	24.00	36.68	5.53	1.77	Calculated
32	Pipe	Structure - (131)	Structure - (132)	11.23	3154.10	3154.07	0.2600	36.000	0.0120	24.00	36.56	5.51	1.77	Calculated
33	Pipe	Structure - (132)	Structure - (133)	77.62	3154.07	3153.87	0.2600	36.000	0.0120	24.00	36.76	5.54	1.77	Calculated
34	Pipe	Structure - (133)	Structure - (134)	23.86	3153.87	3153.81	0.2600	36.000	0.0120	24.00	36.68	5.53	1.77	Calculated
35	Pipe	Structure - (134)	Structure - (135)	101.97	3153.81	3153.54	0.2600	36.000	0.0120	24.00	36.71	5.53	1.77	Calculated
36	Pipe	Structure - (135)	Structure - (136)	67.10	3153.54	3153.37	0.2600	36.000	0.0120	24.00	36.67	5.53	1.77	Calculated
37	Pipe	Structure - (136)	Structure - (137)	20.12	3153.37	3153.34	0.1500	36.000	0.0120	24.00	27.90	4.44	2.15	Calculated
38	Pipe	Structure - (137)	Structure - (138)	133.97	3153.34	3153.14	0.1500	36.000	0.0120	24.00	28.09	4.46	2.13	Calculated
39	Pipe	Structure - (138)	Structure - (139)	78.52	3153.14	3153.00	0.1800	36.000	0.0120	24.00	30.23	4.75	2.02	Calculated
40	Pipe	Structure - (139)	Structure - (140)	69.06	3153.00	3152.92	0.1200	36.000	0.0120	24.00	25.03	4.03	2.36	Calculated
41	Pipe	Structure - (140)	Structure - (141)	52.13	3152.92	3152.84	0.1500	36.000	0.0120	24.00	28.08	4.46	2.13	Calculated
42	Pipe	Structure - (141)	Structure - (142)	158.93	3152.84	3152.60	0.1500	36.000	0.0120	24.00	28.01	4.45	2.14	Calculated
43	Pipe	Structure - (142)	Structure - (143)	39.78	3152.60	3152.54	0.1500	36.000	0.0120	24.00	28.14	4.47	2.13	Calculated
44	Pipe	Structure - (143)	Structure - (144)	67.12	3152.54	3152.44	0.1500	36.000	0.0120	24.00	28.00	4.45	2.14	Calculated
45	Pipe	Structure - (144)	Structure - (145)	51.56	3152.44	3152.36	0.1500	36.000	0.0120	24.00	28.01	4.45	2.14	Calculated
46	Pipe	Structure - (145)	Structure - (146)	94.11	3152.36	3152.22	0.1500	36.000	0.0120	24.00	28.12	4.47	2.13	Calculated
47	Pipe	Structure - (146)	Structure - (147)	175.48	3152.22	3151.96	0.1500	36.000	0.0120	24.00	28.00	4.45	2.14	Calculated
48	Pipe	Structure - (147)	Structure - (148)	61.79	3151.96	3151.86	0.1500	36.000	0.0120	24.00	28.00	4.45	2.14	Calculated
49	Pipe	Structure - (148)	Structure - (149)	39.96	3151.86	3151.80	0.1600	36.000	0.0120	24.00	28.51	4.52	2.11	Calculated
50	Pipe	Structure - (149)	Structure - (150)	27.82	3151.80	3151.76	0.1400	36.000	0.0120	24.00	27.30	4.35	2.18	Calculated
51	Pipe	Structure - (592)	Structure - (593)	79.25	3151.75	3151.61	0.1800	36.000	0.0120	24.00	30.37	4.76	2.01	Calculated
52	Pipe	Structure - (150)	Structure - (592)	6.88	3151.76	3151.75	0.1500	36.000	0.0120	24.00	27.94	4.44	2.14	Calculated
53	Pipe	Structure - (593)	Structure - (152)	6.27	3151.61	3151.60	0.1600	36.000	0.0120	24.00	28.85	4.56	2.09	Calculated
54	Pipe	Structure - (152)	Structure - (153)	210.73	3151.60	3151.26	0.1600	36.000	0.0120	24.00	29.15	4.60	2.07	Calculated
55	Pipe	Structure - (153)	Structure - (154)	69.19	3151.26	3151.14	0.1600	36.000	0.0120	24.00	29.28	4.62	2.07	Calculated
56	Pipe	Structure - (154)	Structure - (155)	98.64	3151.14	3150.98	0.1600	36.000	0.0120	24.00	29.25	4.62	2.07	Calculated
57	Pipe	Structure - (156)	Structure - (157)	42.62	3150.70	3150.63	0.1600	36.000	0.0120	24.00	29.26	4.62	2.07	Calculated
58	Pipe	Structure - (155)	Structure - (156)	168.61	3150.98	3150.70	0.1600	36.000	0.0120	24.00	29.29	4.62	2.07	Calculated

# 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)	Design Flow Capacity (cfs)	Peak Flow Velocity (ft/sec)	Peak Flow Reported Depth (ft)	Condition
59	Pipe	Structure - (157)	Structure - (158)	144.64	3150.63	3150.40	0.1600	36.000	0.0120	24.00	29.29	4.62	2.07	Calculated
60	Pipe	Structure - (158)	Structure - (159)	83.89	3150.40	3150.26	0.1600	36.000	0.0120	24.00	29.27	4.62	2.07	Calculated
61	Pipe	Structure - (159)	Structure - (160)	14.09	3150.26	3150.24	0.1600	36.000	0.0120	24.00	29.25	4.62	2.07	Calculated
62	Pipe	Structure - (160)	Structure - (161)	34.05	3150.24	3150.18	0.1600	36.000	0.0120	24.00	29.29	4.62	2.07	Calculated
63	Pipe	Structure - (161)	Structure - (162)	79.15	3150.18	3150.05	0.1600	36.000	0.0120	24.00	29.28	4.62	2.07	Calculated
64	Pipe	Structure - (162)	Structure - (163)	6.48	3150.05	3150.04	0.1600	36.000	0.0120	24.00	29.19	4.61	2.07	Calculated
65	Pipe - (158)-ExCMPtoHDPE	Structure - (163)	Structure - (164)	42.50	3150.04	3149.96	0.1800	36.000	0.0120	24.00	30.89	4.83	1.99	Calculated
66	Pipe	Structure - (164)	Structure - (166)	84.29	3149.96	3149.81	0.1800	36.000	0.0120	24.00	30.87	4.83	1.99	Calculated
67	Pipe	Structure - (166)	Structure - (167)	42.07	3149.81	3149.73	0.1800	36.000	0.0120	24.00	30.88	4.83	1.99	Calculated
68	Pipe	Structure - (167)	Structure - (168)	45.11	3149.73	3149.65	0.1800	36.000	0.0120	24.00	30.87	4.83	1.99	Calculated
69	Pipe	Structure - (168)	Structure - (169)	101.12	3149.65	3149.46	0.1800	36.000	0.0120	24.00	30.88	4.83	1.99	Calculated
70	Pipe	Structure - (169)	Structure - (170)	178.38	3149.46	3149.14	0.1800	36.000	0.0120	24.00	30.88	4.83	1.99	Calculated
71	Pipe	Structure - (170)	Structure - (171)	149.74	3149.14	3148.87	0.1800	36.000	0.0120	24.00	30.88	4.83	1.99	Calculated
72	Pipe	Structure - (171)	Structure - (172)	94.63	3148.87	3148.69	0.1800	36.000	0.0120	24.00	30.88	4.83	1.99	Calculated
73	Pipe	Structure - (172)	Structure - (173)	202.14	3148.69	3148.32	0.1800	36.000	0.0120	24.00	30.88	4.83	1.99	Calculated
74	Pipe	Structure - (173)	Structure - (174)	71.05	3148.32	3148.19	0.1800	36.000	0.0120	24.00	30.88	4.83	1.99	Calculated
75	Pipe	Structure - (174)	Structure - (175)	376.77	3148.19	3147.51	0.1800	36.000	0.0120	24.00	30.88	4.83	1.99	Calculated
76	Pipe	Structure - (175)	Structure - (176)	38.21	3147.51	3147.44	0.1800	36.000	0.0120	24.00	30.83	4.82	1.99	Calculated
77	Pipe	Structure - (176)	Structure - (177)	33.64	3147.44	3147.37	0.1800	36.000	0.0120	24.00	30.93	4.83	1.99	Calculated
78	Pipe	Structure - (177)	Structure - (178)	58.55	3147.37	3147.27	0.1800	36.000	0.0120	24.00	30.89	4.83	1.99	Calculated
79	Pipe	Structure - (178)	Structure - (179)	109.91	3147.27	3147.07	0.1800	36.000	0.0120	24.00	30.87	4.83	1.99	Calculated
80	Pipe	Structure - (179)	Structure - (180)	108.38	3147.07	3146.87	0.1800	36.000	0.0120	24.00	30.88	4.83	1.99	Calculated
81	Pipe	Structure - (180)	Structure - (181)	140.28	3146.87	3146.61	0.1800	36.000	0.0120	24.00	30.89	4.83	1.99	Calculated
82	Pipe	Structure - (181)	Structure - (182)	130.61	3146.61	3146.37	0.1800	36.000	0.0120	24.00	30.87	4.83	1.99	Calculated
83	Pipe	Structure - (182)	Structure - (183)	15.81	3146.37	3146.35	0.1800	36.000	0.0120	24.00	30.85	4.82	1.99	Calculated
84	Pipe	Structure - (183)	Structure - (184)	29.50	3146.35	3146.29	0.1800	36.000	0.0120	24.00	30.90	4.83	1.99	Calculated
85	Pipe	Structure - (184)	Structure - (185)	66.39	3146.29	3146.17	0.1800	36.000	0.0120	24.00	30.88	4.83	1.99	Calculated
86	Pipe	Structure - (185)	Structure - (186)	89.00	3146.17	3146.01	0.1800	36.000	0.0120	24.00	30.88	4.83	1.99	Calculated
87	Pipe	Structure - (186)	Structure - (187)	97.78	3146.01	3145.83	0.1800	36.000	0.0120	24.00	30.88	4.83	1.99	Calculated
88	Pipe	Structure - (187)	Structure - (188)	59.83	3145.83	3145.72	0.1800	36.000	0.0120	24.00	30.84	4.82	1.99	Calculated
89	Pipe	Structure - (188)	Structure - (189)	6.65	3145.72	3145.71	0.1900	36.000	0.0120	24.00	31.24	4.87	1.97	Calculated
90	Pipe	Structure - (189)	Structure - (190)	81.87	3145.71	3145.56	0.1800	36.000	0.0120	24.00	30.88	4.83	1.99	Calculated
91	Pipe	Structure - (190)	Structure - (191)	37.14	3145.56	3145.49	0.1800	36.000	0.0120	24.00	30.87	4.83	1.99	Calculated
92	Pipe	Structure - (191)	Structure - (192)	171.25	3145.49	3145.18	0.1800	36.000	0.0120	24.00	30.88	4.83	1.99	Calculated
93	Pipe	Structure - (192)	Structure - (193)	50.77	3145.18	3145.08	0.1800	36.000	0.0120	24.00	30.87	4.83	1.99	Calculated
94	Pipe	Structure - (193)	Structure - (196)	36.53	3144.65	3144.58	0.1800	36.000	0.0120	24.00	30.90	4.83	1.99	Calculated
95	Pipe	Structure - (196)	Structure - (197)	126.36	3144.58	3144.35	0.1800	36.000	0.0120	24.00	30.87	4.83	1.99	Calculated
96	Pipe	Structure - (197)	Structure - (198)	19.86	3144.35	3144.31	0.1800	36.000	0.0120	24.00	30.91	4.83	1.99	Calculated
97	Pipe	Structure - (198)	Structure - (199)	59.18	3144.31	3144.21	0.1800	36.000	0.0120	24.00	30.87	4.83	1.99	Calculated
98	Pipe	Structure - (199)	Structure - (200)	53.03	3144.21	3144.11	0.1800	36.000	0.0120	24.00	30.89	4.83	1.99	Calculated
99	Pipe	Structure - (200)	Structure - (201)	67.10	3144.11	3143.99	0.1800	36.000	0.0120	24.00	30.88	4.83	1.99	Calculated
100	Pipe	Structure - (201)	Structure - (202)	74.90	3143.99	3143.85	0.1800	36.000	0.0120	24.00	30.88	4.83	1.99	Calculated
101	Pipe	Structure - (202)	Structure - (203)	48.61	3143.85	3143.76	0.1800	36.000	0.0120	24.00	30.87	4.83	1.99	Calculated
102	Pipe	Structure - (203)	Structure - (204)	58.06	3143.76	3143.66	0.1800	36.000	0.0120	24.00	30.89	4.83	1.99	Calculated
103	Pipe	Structure - (204)	Structure - (205)	62.71	3143.66	3143.54	0.1800	36.000	0.0120	24.00	30.88	4.83	1.99	Calculated
104	Pipe	Structure - (205)	Structure - (206)	184.46	3143.54	3143.20	0.1800	36.000	0.0120	24.00	30.88	4.83	1.99	Calculated
105	Pipe	Structure - (206)	Structure - (207)	147.79	3143.20	3142.93	0.1800	36.000	0.0120	24.00	30.88	4.83	1.99	Calculated
106	Pipe	Structure - (207)	Structure - (208)	286.90	3142.93	3142.41	0.1800	36.000	0.0120	24.00	30.88	4.83	1.99	Calculated
107	Pipe	Structure - (208)	Structure - (209)	38.21	3142.41	3142.34	0.1800	36.000	0.0120	24.00	30.88	4.83	1.99	Calculated
108	Pipe - (202)-WoodtoHdpe	Structure - (209)	Structure - (210)	47.51	3142.34	3142.24	0.2100	36.000	0.0120	24.00	33.15	5.11	1.89	Calculated
109	Pipe	Structure - (210)	Structure - (211)	45.26	3142.24	3142.14	0.2200	36.000	0.0120	24.00	34.17	5.23	1.85	Calculated
110	Pipe	Structure - (211)	Structure - (212)	160.26	3142.14	3141.78	0.2200	36.000	0.0120	24.00	34.17	5.23	1.85	Calculated
111	Pipe	Structure - (212)	Structure - (213)	261.48	3141.78	3141.20	0.2200	36.000	0.0120	24.00	34.18	5.23	1.85	Calculated
112	Pipe	Structure - (213)	Structure - (214)	173.08	3141.20	3140.81	0.2200	36.000	0.0120	24.00	34.17	5.23	1.85	Calculated
113	Pipe	Structure - (214)	Structure - (215)	213.13	3140.81	3140.33	0.2200	36.000	0.0120	24.00	34.17	5.23	1.85	Calculated
114	Pipe	Structure - (215)	Structure - (216)	94.77	3140.33	3140.12	0.2200	36.000	0.0120	24.00	34.16	5.23	1.86	Calculated
115	Pipe	Structure - (216)	Structure - (217)	66.56	3140.12	3139.97	0.2200	36.000	0.0120	24.00	34.18	5.23	1.85	Calculated
116	Pipe	Structure - (217)	Structure - (218)	52.21	3139.97	3139.85	0.2200	36.000	0.0120	24.00	34.16	5.23	1.85	Calculated

## 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 (in)	Manning's Roughness	Peak Flow (cfs)	Design Flow Capacity (cfs)	Peak Flow Velocity (ft/sec)	Peak Flow Reported Depth (ft)	Condition
117	Pipe	Structure - (218)	Structure - (219)	45.50	3139.85	3139.75	0.2200	36.000	0.0120	24.00	34.19	5.23	1.85	Calculated
118	Pipe	Structure - (219)	Structure - (221)	10.12	3139.75	3139.73	0.2200	36.000	0.0120	24.00	34.10	5.22	1.86	Calculated
119	Pipe	Structure - (221)	Structure - (222)	59.31	3139.73	3139.60	0.2200	36.000	0.0120	24.00	34.17	5.23	1.85	Calculated
120	Pipe	Structure - (222)	Structure - (220)	21.44	3139.60	3139.55	0.2200	36.000	0.0120	24.00	34.22	5.24	1.85	Calculated
121	Pipe	Structure - (220)	Structure - (223)	9.56	3139.55	3139.53	0.2200	36.000	0.0120	24.00	34.12	5.23	1.86	Calculated
122	Pipe	Structure - (223)	Structure - (224)	39.39	3139.53	3139.44	0.2200	36.000	0.0120	24.00	34.14	5.23	1.86	Calculated
123	Pipe	Structure - (224)	Structure - (225)	9.01	3139.44	3139.42	0.2200	36.000	0.0120	24.00	34.13	5.23	1.86	Calculated
124	Pipe	Structure - (225)	Structure - (226)	10.46	3139.42	3139.40	0.2200	36.000	0.0120	24.00	34.22	5.24	1.85	Calculated
125	Pipe	Structure - (226)	Structure - (227)	89.67	3139.40	3139.20	0.2200	36.000	0.0120	24.00	34.17	5.23	1.85	Calculated
126	Pipe	Structure - (227)	Structure - (228)	130.19	3139.20	3138.90	0.2200	36.000	0.0120	24.00	34.17	5.23	1.85	Calculated
127	Pipe	Structure - (228)	Structure - (229)	67.12	3138.90	3138.75	0.2200	36.000	0.0120	24.00	34.18	5.23	1.85	Calculated
128	Pipe	Structure - (229)	Structure - (230)	37.55	3138.75	3138.67	0.2200	36.000	0.0120	24.00	34.17	5.23	1.85	Calculated
129	Pipe	Structure - (230)	Structure - (231)	94.62	3138.67	3138.46	0.2200	36.000	0.0120	24.00	34.17	5.23	1.85	Calculated
130	Pipe	Structure - (231)	Structure - (232)	67.15	3138.46	3138.31	0.2200	36.000	0.0120	24.00	34.17	5.23	1.85	Calculated
131	Pipe	Structure - (232)	Structure - (233)	74.60	3138.31	3138.14	0.2200	36.000	0.0120	24.00	34.17	5.23	1.85	Calculated
132	Pipe	Structure - (233)	Structure - (234)	20.71	3138.14	3138.10	0.2200	36.000	0.0120	24.00	34.17	5.23	1.85	Calculated
133	Pipe	Structure - (234)	Structure - (235)	42.77	3138.10	3138.00	0.2200	36.000	0.0120	24.00	34.17	5.23	1.85	Calculated
134	Pipe	Structure - (235)	Structure - (236)	41.29	3138.00	3137.78	0.5300	36.000	0.0120	24.00	52.74	7.28	1.42	Calculated
135	Pipe	Structure - (193)	Structure - (195)	238.89	3145.08	3144.65	0.1800	36.000	0.0120	24.00	30.90	4.83	1.99	Calculated
136	Pipe	Structure - (236)	Structure - (238)	84.57	3137.78	3137.65	0.1600	36.000	0.0120	24.00	28.77	4.55	2.10	Calculated
137	Pipe	Structure - (238)	Structure - (239)	91.67	3137.65	3137.50	0.1600	36.000	0.0120	24.00	29.17	4.61	2.07	Calculated
138	Pipe	Structure - (239)	Structure - (240)	117.55	3137.50	3137.31	0.1600	36.000	0.0120	24.00	29.11	4.60	2.08	Calculated
139	Pipe	Structure - (240)	Structure - (241)	22.80	3137.31	3137.27	0.1600	36.000	0.0120	24.00	29.11	4.60	2.08	Calculated
140	Pipe	Structure - (241)	Structure - (242)	26.99	3137.27	3137.23	0.1600	36.000	0.0120	24.00	28.99	4.58	2.08	Calculated
141	Pipe	Structure - (242)	Structure - (243)	22.10	3137.23	3137.19	0.1600	36.000	0.0120	24.00	29.35	4.63	2.06	Calculated
142	Pipe	Structure - (243)	Structure - (244)	58.82	3137.19	3137.09	0.1600	36.000	0.0120	24.00	29.09	4.60	2.08	Calculated
143	Pipe	Structure - (244)	Structure - (245)	30.18	3137.09	3137.04	0.1600	36.000	0.0120	24.00	29.08	4.59	2.08	Calculated
144	Pipe	Structure - (245)	Structure - (246)	40.30	3137.04	3136.98	0.1600	36.000	0.0120	24.00	29.14	4.60	2.08	Calculated
145	Pipe	Structure - (246)	Structure - (247)	55.56	3136.98	3136.89	0.1600	36.000	0.0120	24.00	29.16	4.61	2.07	Calculated
146	Pipe	Structure - (247)	Structure - (248)	168.98	3136.89	3136.61	0.1600	36.000	0.0120	24.00	29.10	4.60	2.08	Calculated
147	Pipe	Structure - (248)	Structure - (249)	114.72	3136.61	3136.43	0.1600	36.000	0.0120	24.00	29.12	4.60	2.08	Calculated
148	Pipe	Structure - (249)	Structure - (250)	50.77	3136.43	3136.35	0.1600	36.000	0.0120	24.00	29.14	4.60	2.07	Calculated
149	Pipe	Structure - (250)	Structure - (251)	26.72	3136.35	3136.30	0.1600	36.000	0.0120	24.00	29.07	4.59	2.08	Calculated
150	Pipe	Structure - (251)	Structure - (252)	78.37	3136.30	3136.17	0.1600	36.000	0.0120	24.00	29.13	4.60	2.08	Calculated
151	Pipe	Structure - (252)	Structure - (253)	93.33	3136.17	3136.02	0.1600	36.000	0.0120	24.00	29.11	4.60	2.08	Calculated
152	Pipe	Structure - (254)	Structure - (255)	244.36	3135.63	3135.24	0.1600	36.000	0.0120	24.00	29.12	4.60	2.08	Calculated
153	Pipe	Structure - (257)	Structure - (258)	82.48	3134.60	3134.47	0.1600	36.000	0.0120	24.00	29.14	4.60	2.08	Calculated
154	Pipe	Structure - (255)	Structure - (257)	390.16	3135.24	3134.60	0.1600	36.000	0.0120	24.00	29.12	4.60	2.08	Calculated
155	Pipe	Structure - (258)	Structure - (259)	180.66	3134.47	3134.17	0.1600	36.000	0.0120	24.00	29.12	4.60	2.08	Calculated
156	Pipe	Structure - (259)	Structure - (260)	13.67	3134.17	3134.15	0.1600	36.000	0.0120	24.00	29.16	4.60	2.07	Calculated
157	Pipe	Structure - (260)	Structure - (261)	74.60	3134.15	3134.03	0.1600	36.000	0.0120	24.00	29.12	4.60	2.08	Calculated
158	Pipe	Structure - (261)	Structure - (262)	113.19	3134.03	3133.85	0.1600	36.000	0.0120	24.00	29.13	4.60	2.08	Calculated
159	Pipe	Structure - (262)	Structure - (263)	198.51	3133.85	3133.53	0.1600	36.000	0.0120	24.00	29.11	4.60	2.08	Calculated
160	Pipe	Structure - (263)	Structure - (264)	77.15	3133.53	3133.40	0.1600	36.000	0.0120	24.00	29.11	4.60	2.08	Calculated
161	Pipe	Structure - (264)	Structure - (265)	163.89	3133.40	3133.13	0.1600	36.000	0.0120	24.00	29.12	4.60	2.08	Calculated
162	Pipe	Structure - (265)	Structure - (266)	115.26	3133.13	3132.95	0.1600	36.000	0.0120	24.00	29.12	4.60	2.08	Calculated
163	Pipe	Structure - (266)	Structure - (267)	31.20	3132.95	3132.90	0.1600	36.000	0.0120	24.00	29.11	4.60	2.08	Calculated
164	Pipe	Structure - (267)	Structure - (268)	47.62	3132.90	3132.79	0.2200	36.000	0.0120	24.00	33.62	5.17	1.87	Calculated
165	Pipe	Structure - (268)	Structure - (269)	135.47	3132.79	3132.58	0.1600	36.000	0.0120	24.00	28.95	4.58	2.08	Calculated
166	Pipe	Structure - (269)	Structure - (270)	143.14	3132.58	3132.32	0.1800	36.000	0.0120	24.00	30.50	4.78	2.01	Calculated
167	Pipe	Structure - (270)	Structure - (271)	13.67	3132.32	3132.30	0.1800	36.000	0.0120	24.00	30.47	4.78	2.01	Calculated
168	Pipe	Structure - (271)	Structure - (273)	194.18	3132.30	3131.95	0.1800	36.000	0.0120	24.00	30.52	4.78	2.00	Calculated
169	Pipe	Structure - (273)	Structure - (274)	51.80	3131.95	3131.86	0.1800	36.000	0.0120	24.00	30.49	4.78	2.01	Calculated
170	Pipe	Structure - (274)	Structure - (275)	51.03	3131.86	3131.77	0.1800	36.000	0.0120	24.00	30.52	4.78	2.00	Calculated
171	Pipe	Structure - (275)	Structure - (276)	44.17	3131.77	3131.69	0.1800	36.000	0.0120	24.00	30.53	4.78	2.00	Calculated
172	Pipe	Structure - (276)	Structure - (277)	9.73	3131.69	3131.67	0.1800	36.000	0.0120	24.00	30.25	4.75	2.02	Calculated
173	Pipe	Structure - (277)	Structure - (278)	56.32	3131.67	3131.57	0.1800	36.000	0.0120	24.00	30.53	4.78	2.00	Calculated
174	Pipe	Structure - (278)	Structure - (279)	148.27	3131.57	3131.31	0.1800	36.000	0.0120	24.00	30.49	4.78	2.01	Calculated

## 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 (in)	Manning's Roughness	Peak Flow (cfs)	Design Flow Capacity (cfs)	Peak Flow Velocity (ft/sec)	Peak Flow Reported Depth (ft)	Condition
175 Pipe - (274)	Pipe	Structure - (279)	Structure - (280)	15.52	3131.31	3131.28	0.1800	36.000	0.0120	24.00	30.60	4.79	2.00	Calculated
176 Pipe - (275)	Pipe	Structure - (280)	Structure - (281)	72.68	3131.28	3131.15	0.1800	36.000	0.0120	24.00	30.50	4.78	2.01	Calculated
177 Pipe - (276)	Pipe	Structure - (281)	Structure - (282)	80.44	3131.15	3131.01	0.1800	36.000	0.0120	24.00	30.49	4.78	2.01	Calculated
178 Pipe - (277)	Pipe	Structure - (282)	Structure - (572)	116.90	3131.01	3130.80	0.1800	36.000	0.0120	24.00	30.51	4.78	2.01	Calculated
179 Pipe - (277) (1)	Pipe	Structure - (572)	Structure - (283)	99.10	3130.80	3130.62	0.1800	36.000	0.0120	24.00	30.51	4.78	2.01	Calculated
180 Pipe - (278)	Pipe	Structure - (283)	Structure - (284)	116.57	3130.62	3130.41	0.1800	36.000	0.0120	24.00	30.49	4.78	2.01	Calculated
181 Pipe - (279)	Pipe	Structure - (284)	Structure - (285)	139.23	3130.41	3130.16	0.1800	36.000	0.0120	24.00	30.51	4.78	2.01	Calculated
182 Pipe - (280)	Pipe	Structure - (285)	Structure - (286)	120.79	3130.16	3129.95	0.1800	36.000	0.0120	24.00	30.49	4.78	2.01	Calculated
183 Pipe - (281)	Pipe	Structure - (286)	Structure - (287)	167.51	3129.95	3129.65	0.1800	36.000	0.0120	24.00	30.52	4.78	2.00	Calculated
184 Pipe - (282)	Pipe	Structure - (287)	Structure - (288)	161.28	3129.65	3129.36	0.1800	36.000	0.0120	24.00	30.50	4.78	2.01	Calculated
185 Pipe - (283)	Pipe	Structure - (288)	Structure - (289)	69.39	3129.36	3129.24	0.1800	36.000	0.0120	24.00	30.48	4.78	2.01	Calculated
186 Pipe - (284)	Pipe	Structure - (289)	Structure - (290)	131.42	3129.24	3129.01	0.1800	36.000	0.0120	24.00	30.51	4.78	2.00	Calculated
187 Pipe - (285)	Pipe	Structure - (290)	Structure - (291)	156.43	3129.01	3128.73	0.1800	36.000	0.0120	24.00	30.49	4.78	2.01	Calculated
188 Pipe - (286)	Pipe	Structure - (291)	Structure - (292)	164.53	3128.73	3128.43	0.1800	36.000	0.0120	24.00	30.50	4.78	2.01	Calculated
189 Pipe - (287)	Pipe	Structure - (292)	Outlet-WoodleafSiphonInlet	71.45	3128.43	3128.31	0.1800	36.000	0.0120	24.00	30.52	4.78	2.00	Calculated
190 Pipe - (446)	Pipe	Structure - (253)	Structure - (571)	107.05	3136.02	3135.85	0.1600	36.000	0.0120	24.00	29.13	4.60	2.08	Calculated
191 Pipe - (446) (1)	Pipe	Structure - (571)	Structure - (254)	133.45	3135.85	3135.63	0.1600	36.000	0.0120	24.00	29.12	4.60	2.08	Calculated
192 Pipe - (79)	Pipe	OroleveSiphonOutlet	Structure - (82)	20.64	3160.08	3160.05	0.1500	36.000	0.0120	24.00	27.55	4.39	2.17	Calculated
193 Pipe - (80)	Pipe	Structure - (82)	Structure - (83)	110.08	3160.05	3159.91	0.1300	36.000	0.0120	24.00	25.77	4.14	2.29	Calculated
194 Pipe - (81)	Pipe	Structure - (83)	Structure - (84)	153.56	3159.91	3159.71	0.1300	36.000	0.0120	24.00	26.08	4.18	2.27	Calculated
195 Pipe - (82)	Pipe	Structure - (84)	Structure - (85)	82.77	3159.71	3159.60	0.1300	36.000	0.0120	24.00	26.34	4.22	2.25	Calculated
196 Pipe - (83)	Pipe	Structure - (85)	Structure - (86)	70.71	3159.60	3159.51	0.1300	36.000	0.0120	24.00	25.78	4.14	2.29	Calculated
197 Pipe - (84)	Pipe	Structure - (86)	Structure - (87)	21.39	3159.51	3159.48	0.1400	36.000	0.0120	24.00	27.06	4.32	2.20	Calculated
198 Pipe - (85)	Pipe	Structure - (87)	Structure - (88)	81.01	3159.48	3159.37	0.1400	36.000	0.0120	24.00	26.63	4.26	2.23	Calculated
199 Pipe - (86)	Pipe	Structure - (88)	Structure - (89)	22.84	3159.37	3159.34	0.1300	36.000	0.0120	24.00	26.18	4.20	2.26	Calculated
200 Pipe - (87)	Pipe	Structure - (89)	Structure - (90)	19.85	3159.34	3159.31	0.1500	36.000	0.0120	24.00	28.09	4.46	2.13	Calculated
201 Pipe - (88)	Pipe	Structure - (90)	Structure - (91)	41.17	3159.31	3159.26	0.1200	36.000	0.0120	24.00	25.18	4.05	2.34	Calculated
202 Pipe - (89)	Pipe	Structure - (91)	Structure - (92)	63.93	3159.26	3159.18	0.1300	36.000	0.0120	24.00	25.56	4.11	2.31	Calculated
203 Pipe - (90)	Pipe	Structure - (92)	Structure - (93)	39.13	3159.18	3159.13	0.1300	36.000	0.0120	24.00	25.83	4.15	2.29	Calculated
204 Pipe - (91)	Pipe	Structure - (93)	Structure - (94)	31.71	3159.13	3159.09	0.1300	36.000	0.0120	24.00	25.66	4.12	2.30	Calculated
205 Pipe - (92)	Pipe	Structure - (94)	Structure - (95)	29.66	3159.09	3159.05	0.1300	36.000	0.0120	24.00	26.54	4.25	2.24	Calculated
206 Pipe - (93)-ExCMPtoHDPE	Pipe	Structure - (95)	Structure - (96)	20.02	3159.05	3159.02	0.1500	36.000	0.0120	24.00	27.97	4.45	2.14	Calculated
207 Pipe - (94)	Pipe	Structure - (96)	Structure - (97)	85.59	3159.02	3158.92	0.1200	36.000	0.0120	24.00	24.70	3.98	2.39	Calculated
208 Pipe - (95)	Pipe	Structure - (97)	Structure - (98)	49.62	3158.92	3158.86	0.1200	36.000	0.0120	24.00	25.13	4.04	2.35	Calculated
209 Pipe - (96)	Pipe	Structure - (98)	Structure - (99)	41.00	3158.86	3158.81	0.1200	36.000	0.0120	24.00	25.23	4.06	2.34	Calculated
210 Pipe - (97)	Pipe	Structure - (99)	Structure - (100)	35.96	3158.81	3158.77	0.1300	36.000	0.0120	24.00	25.56	4.11	2.31	Calculated
211 Pipe - (98)	Pipe	Structure - (100)	Structure - (101)	70.99	3158.77	3158.68	0.1200	36.000	0.0120	24.00	25.00	4.03	2.36	Calculated
212 Pipe - (99)	Pipe	Structure - (101)	Structure - (102)	194.16	3158.68	3158.45	0.1200	36.000	0.0120	24.00	24.87	4.01	2.37	Calculated

# Junction Input

SN	Element ID	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Initial Water Elevation (ft)	Initial Water Depth (ft)	Surcharge Elevation (ft)	Surcharge Depth (ft)	Ponded Area (ft <sup>2</sup> )	Minimum Pipe Cover (in)
1	OroleveSiphonOutlet	3160.08	3163.08	3.00	3159.99	-0.09	3163.25	0.17	0.00	0.00
2	Structure - (100)	3158.77	3161.77	3.00	3158.75	-0.02	3162.00	0.24	0.00	0.00
3	Structure - (101)	3158.68	3161.68	3.00	3158.67	-0.01	3161.92	0.24	0.00	0.00
4	Structure - (102)	3158.45	3161.45	3.00	3158.45	0.00	3162.15	0.70	0.00	0.00
5	Structure - (103)	3158.34	3161.34	3.00	3158.42	0.08	3162.31	0.97	0.00	0.00
6	Structure - (104)	3158.22	3161.22	3.00	3158.32	0.10	3161.67	0.45	0.00	0.00
7	Structure - (105)	3158.17	3161.17	3.00	3158.34	0.17	3161.60	0.43	0.00	0.00
8	Structure - (106)	3158.14	3161.14	3.00	3158.31	0.17	3161.56	0.42	0.00	0.00
9	Structure - (107)	3158.09	3161.09	3.00	3158.23	0.14	3161.49	0.40	0.00	0.00
10	Structure - (108)	3158.05	3161.05	3.00	3158.16	0.11	3161.86	0.81	0.00	0.00
11	Structure - (109)	3157.93	3160.93	3.00	3158.14	0.21	3161.90	0.97	0.00	0.00
12	Structure - (110)	3157.87	3160.87	3.00	3158.13	0.26	3161.38	0.51	0.00	0.00
13	Structure - (111)	3157.84	3160.84	3.00	3158.09	0.25	3161.35	0.51	0.00	0.00
14	Structure - (112)	3157.79	3160.79	3.00	3158.03	0.24	3161.29	0.50	0.00	0.00
15	Structure - (113)	3157.77	3160.77	3.00	3158.01	0.24	3161.26	0.49	0.00	0.00
16	Structure - (114)	3157.73	3160.73	3.00	3157.96	0.23	3161.66	0.93	0.00	0.00
17	Structure - (116)	3157.10	3160.10	3.00	3156.82	-0.28	3162.60	2.50	0.00	0.00
18	Structure - (117)	3157.05	3160.05	3.00	3156.81	-0.24	3160.13	0.08	0.00	0.00
19	Structure - (118)	3157.00	3160.00	3.00	3156.81	-0.19	3160.18	0.18	0.00	0.00
20	Structure - (119)	3156.95	3159.95	3.00	3156.81	-0.14	3160.25	0.30	0.00	0.00
21	Structure - (120)	3156.81	3159.81	3.00	3156.81	0.00	3160.93	1.12	0.00	0.00
22	Structure - (121)	3156.56	3160.26	3.70	3156.56	0.00	3160.26	0.00	0.00	0.00
23	Structure - (122)	3156.35	3159.60	3.26	3156.35	0.00	3159.60	0.00	0.00	0.00
24	Structure - (123)	3156.26	3159.52	3.26	3156.26	0.00	3159.52	0.00	0.00	0.00
25	Structure - (124)	3156.15	3159.40	3.26	3156.15	0.00	3159.40	0.00	0.00	0.00
26	Structure - (125)	3155.93	3159.19	3.26	3155.93	0.00	3159.19	0.00	0.00	0.00
27	Structure - (126)	3155.39	3158.65	3.26	3155.39	0.00	3158.65	0.00	0.00	0.00
28	Structure - (127)	3154.74	3159.30	4.56	3154.74	0.00	3159.30	0.00	0.00	0.00
29	Structure - (128)	3154.38	3157.64	3.26	3154.38	0.00	3157.64	0.00	0.00	0.00
30	Structure - (129)	3154.24	3157.49	3.26	3154.24	0.00	3157.49	0.00	0.00	0.00
31	Structure - (130)	3154.17	3157.43	3.26	3154.17	0.00	3157.43	0.00	0.00	0.00
32	Structure - (131)	3154.10	3157.35	3.26	3154.10	0.00	3157.35	0.00	0.00	0.00
33	Structure - (132)	3154.07	3157.32	3.26	3154.07	0.00	3157.32	0.00	0.00	0.00
34	Structure - (133)	3153.87	3157.12	3.26	3153.87	0.00	3157.12	0.00	0.00	0.00
35	Structure - (134)	3153.81	3157.06	3.26	3153.81	0.00	3157.06	0.00	0.00	0.00
36	Structure - (135)	3153.54	3156.80	3.26	3153.54	0.00	3156.80	0.00	0.00	0.00
37	Structure - (136)	3153.37	3157.70	4.33	3153.37	0.00	3157.70	0.00	0.00	0.00
38	Structure - (137)	3153.34	3157.67	4.33	3153.34	0.00	3157.67	0.00	0.00	0.00
39	Structure - (138)	3153.14	3156.39	3.26	3153.14	0.00	3156.39	0.00	0.00	0.00
40	Structure - (139)	3153.00	3156.26	3.26	3153.00	0.00	3156.26	0.00	0.00	0.00
41	Structure - (140)	3152.92	3156.17	3.26	3152.92	0.00	3156.17	0.00	0.00	0.00
42	Structure - (141)	3152.84	3156.09	3.26	3152.84	0.00	3156.09	0.00	0.00	0.00
43	Structure - (142)	3152.60	3157.10	4.50	3152.60	0.00	3157.10	0.00	0.00	0.00
44	Structure - (143)	3152.54	3155.79	3.26	3152.54	0.00	3155.79	0.00	0.00	0.00
45	Structure - (144)	3152.44	3155.69	3.26	3152.44	0.00	3155.69	0.00	0.00	0.00
46	Structure - (145)	3152.36	3155.62	3.26	3152.36	0.00	3155.62	0.00	0.00	0.00
47	Structure - (146)	3152.22	3155.47	3.26	3152.22	0.00	3155.47	0.00	0.00	0.00
48	Structure - (147)	3151.96	3155.21	3.26	3151.96	0.00	3155.21	0.00	0.00	0.00
49	Structure - (148)	3151.86	3155.12	3.26	3151.86	0.00	3155.12	0.00	0.00	0.00
50	Structure - (149)	3151.80	3155.06	3.26	3151.80	0.00	3155.06	0.00	0.00	0.00
51	Structure - (150)	3151.76	3155.02	3.26	3151.76	0.00	3155.02	0.00	0.00	0.00
52	Structure - (152)	3151.60	3154.86	3.26	3151.60	0.00	3154.86	0.00	0.00	0.00
53	Structure - (153)	3151.26	3154.51	3.26	3151.26	0.00	3154.51	0.00	0.00	0.00
54	Structure - (154)	3151.14	3154.40	3.26	3151.14	0.00	3154.40	0.00	0.00	0.00
55	Structure - (155)	3150.98	3155.50	4.52	3150.98	0.00	3155.50	0.00	0.00	0.00
56	Structure - (156)	3150.70	3153.96	3.26	3150.70	0.00	3153.96	0.00	0.00	0.00
57	Structure - (157)	3150.63	3153.89	3.26	3150.63	0.00	3153.89	0.00	0.00	0.00
58	Structure - (158)	3150.40	3153.65	3.26	3150.40	0.00	3153.65	0.00	0.00	0.00
59	Structure - (159)	3150.26	3153.51	3.26	3150.26	0.00	3153.51	0.00	0.00	0.00
60	Structure - (160)	3150.24	3153.49	3.26	3150.24	0.00	3153.49	0.00	0.00	0.00
61	Structure - (161)	3150.18	3153.44	3.26	3150.18	0.00	3153.44	0.00	0.00	0.00
62	Structure - (162)	3150.05	3153.31	3.26	3150.05	0.00	3153.31	0.00	0.00	0.00
63	Structure - (163)	3150.04	3154.37	4.33	3150.04	0.00	3154.37	0.00	0.00	0.00
64	Structure - (164)	3149.96	3154.29	4.33	3149.96	0.00	3154.29	0.00	0.00	0.00
65	Structure - (166)	3149.81	3153.06	3.26	3149.81	0.00	3153.06	0.00	0.00	0.00
66	Structure - (167)	3149.73	3152.99	3.26	3149.73	0.00	3152.99	0.00	0.00	0.00
67	Structure - (168)	3149.65	3152.90	3.26	3149.65	0.00	3152.90	0.00	0.00	0.00
68	Structure - (169)	3149.46	3154.00	4.54	3149.46	0.00	3154.00	0.00	0.00	0.00
69	Structure - (170)	3149.14	3152.39	3.26	3149.14	0.00	3152.39	0.00	0.00	0.00
70	Structure - (171)	3148.87	3152.12	3.26	3148.87	0.00	3152.12	0.00	0.00	0.00
71	Structure - (172)	3148.69	3151.95	3.26	3148.69	0.00	3151.95	0.00	0.00	0.00
72	Structure - (173)	3148.32	3151.58	3.26	3148.32	0.00	3151.58	0.00	0.00	0.00
73	Structure - (174)	3148.19	3151.45	3.26	3148.19	0.00	3151.45	0.00	0.00	0.00
74	Structure - (175)	3147.51	3152.00	4.49	3147.51	0.00	3152.00	0.00	0.00	0.00
75	Structure - (176)	3147.44	3150.69	3.26	3147.44	0.00	3150.69	0.00	0.00	0.00
76	Structure - (177)	3147.37	3150.63	3.26	3147.37	0.00	3150.63	0.00	0.00	0.00
77	Structure - (178)	3147.27	3150.52	3.26	3147.27	0.00	3150.52	0.00	0.00	0.00
78	Structure - (179)	3147.07	3150.32	3.26	3147.07	0.00	3150.32	0.00	0.00	0.00
79	Structure - (180)	3146.87	3150.12	3.26	3146.87	0.00	3150.12	0.00	0.00	0.00
80	Structure - (181)	3146.61	3149.87	3.26	3146.61	0.00	3149.87	0.00	0.00	0.00
81	Structure - (182)	3146.37	3149.63	3.26	3146.37	0.00	3149.63	0.00	0.00	0.00
82	Structure - (183)	3146.35	3149.60	3.26	3146.35	0.00	3149.60	0.00	0.00	0.00

# Junction Input

SN Element ID	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Initial Water Elevation (ft)	Initial Water Depth (ft)	Surcharge Elevation (ft)	Surcharge Depth (ft)	Ponded Area (ft <sup>2</sup> )	Minimum Pipe Cover (in)
83 Structure - (184)	3146.29	3149.55	3.26	3146.29	0.00	3149.55	0.00	0.00	0.00
84 Structure - (185)	3146.17	3149.43	3.26	3146.17	0.00	3149.43	0.00	0.00	0.00
85 Structure - (186)	3146.01	3149.26	3.26	3146.01	0.00	3149.26	0.00	0.00	0.00
86 Structure - (187)	3145.83	3150.16	4.33	3145.83	0.00	3150.16	0.00	0.00	0.00
87 Structure - (188)	3145.72	3150.20	4.48	3145.72	0.00	3150.20	0.00	0.00	0.00
88 Structure - (189)	3145.71	3148.96	3.26	3145.71	0.00	3148.96	0.00	0.00	0.00
89 Structure - (190)	3145.56	3148.81	3.26	3145.56	0.00	3148.81	0.00	0.00	0.00
90 Structure - (191)	3145.49	3148.75	3.26	3145.49	0.00	3148.75	0.00	0.00	0.00
91 Structure - (192)	3145.18	3148.43	3.26	3145.18	0.00	3148.43	0.00	0.00	0.00
92 Structure - (193)	3145.08	3148.34	3.26	3145.08	0.00	3148.34	0.00	0.00	0.00
93 Structure - (195)	3144.65	3147.90	3.26	3144.65	0.00	3147.90	0.00	0.00	0.00
94 Structure - (196)	3144.58	3147.84	3.26	3144.58	0.00	3147.84	0.00	0.00	0.00
95 Structure - (197)	3144.35	3147.61	3.26	3144.35	0.00	3147.61	0.00	0.00	0.00
96 Structure - (198)	3144.31	3147.57	3.26	3144.31	0.00	3147.57	0.00	0.00	0.00
97 Structure - (199)	3144.21	3147.46	3.26	3144.21	0.00	3147.46	0.00	0.00	0.00
98 Structure - (200)	3144.11	3147.36	3.26	3144.11	0.00	3147.36	0.00	0.00	0.00
99 Structure - (201)	3143.99	3148.50	4.51	3143.99	0.00	3148.50	0.00	0.00	0.00
100 Structure - (202)	3143.85	3147.11	3.26	3143.85	0.00	3147.11	0.00	0.00	0.00
101 Structure - (203)	3143.76	3147.02	3.26	3143.76	0.00	3147.02	0.00	0.00	0.00
102 Structure - (204)	3143.66	3146.91	3.26	3143.66	0.00	3146.91	0.00	0.00	0.00
103 Structure - (205)	3143.54	3146.80	3.26	3143.54	0.00	3146.80	0.00	0.00	0.00
104 Structure - (206)	3143.20	3146.46	3.26	3143.20	0.00	3146.46	0.00	0.00	0.00
105 Structure - (207)	3142.93	3146.19	3.26	3142.93	0.00	3146.19	0.00	0.00	0.00
106 Structure - (208)	3142.41	3145.67	3.26	3142.41	0.00	3145.67	0.00	0.00	0.00
107 Structure - (209)	3142.34	3146.04	3.70	3142.34	0.00	3146.04	0.00	0.00	0.00
108 Structure - (210)	3142.24	3145.94	3.70	3142.24	0.00	3145.94	0.00	0.00	0.00
109 Structure - (211)	3142.14	3145.39	3.26	3142.14	0.00	3145.39	0.00	0.00	0.00
110 Structure - (212)	3141.78	3146.30	4.52	3141.78	0.00	3146.30	0.00	0.00	0.00
111 Structure - (213)	3141.20	3144.45	3.26	3141.20	0.00	3144.45	0.00	0.00	0.00
112 Structure - (214)	3140.81	3144.06	3.26	3140.81	0.00	3144.06	0.00	0.00	0.00
113 Structure - (215)	3140.33	3143.59	3.26	3140.33	0.00	3143.59	0.00	0.00	0.00
114 Structure - (216)	3140.12	3143.38	3.26	3140.12	0.00	3143.38	0.00	0.00	0.00
115 Structure - (217)	3139.97	3143.23	3.26	3139.97	0.00	3143.23	0.00	0.00	0.00
116 Structure - (218)	3139.85	3143.11	3.26	3139.85	0.00	3143.11	0.00	0.00	0.00
117 Structure - (219)	3139.75	3143.01	3.26	3139.75	0.00	3143.01	0.00	0.00	0.00
118 Structure - (220)	3139.55	3142.80	3.26	3139.55	0.00	3142.80	0.00	0.00	0.00
119 Structure - (221)	3139.73	3144.20	4.47	3139.73	0.00	3144.20	0.00	0.00	0.00
120 Structure - (222)	3139.60	3142.85	3.26	3139.60	0.00	3142.85	0.00	0.00	0.00
121 Structure - (223)	3139.53	3142.78	3.26	3139.53	0.00	3142.78	0.00	0.00	0.00
122 Structure - (224)	3139.44	3142.70	3.26	3139.44	0.00	3142.70	0.00	0.00	0.00
123 Structure - (225)	3139.42	3142.68	3.26	3139.42	0.00	3142.68	0.00	0.00	0.00
124 Structure - (226)	3139.40	3142.65	3.26	3139.40	0.00	3142.65	0.00	0.00	0.00
125 Structure - (227)	3139.20	3142.45	3.26	3139.20	0.00	3142.45	0.00	0.00	0.00
126 Structure - (228)	3138.90	3142.16	3.26	3138.90	0.00	3142.16	0.00	0.00	0.00
127 Structure - (229)	3138.75	3142.01	3.26	3138.75	0.00	3142.01	0.00	0.00	0.00
128 Structure - (230)	3138.67	3141.93	3.26	3138.67	0.00	3141.93	0.00	0.00	0.00
129 Structure - (231)	3138.46	3141.71	3.26	3138.46	0.00	3141.71	0.00	0.00	0.00
130 Structure - (232)	3138.31	3141.56	3.26	3138.31	0.00	3141.56	0.00	0.00	0.00
131 Structure - (233)	3138.14	3141.40	3.26	3138.14	0.00	3141.40	0.00	0.00	0.00
132 Structure - (234)	3138.10	3141.35	3.26	3138.10	0.00	3141.35	0.00	0.00	0.00
133 Structure - (235)	3138.00	3142.33	4.33	3138.00	0.00	3142.33	0.00	0.00	0.00
134 Structure - (236)	3137.78	3142.11	4.33	3137.78	0.00	3142.11	0.00	0.00	0.00
135 Structure - (238)	3137.65	3140.90	3.26	3137.65	0.00	3140.90	0.00	0.00	0.00
136 Structure - (239)	3137.50	3142.00	4.50	3137.50	0.00	3142.00	0.00	0.00	0.00
137 Structure - (240)	3137.31	3140.56	3.26	3137.31	0.00	3140.56	0.00	0.00	0.00
138 Structure - (241)	3137.27	3140.52	3.26	3137.27	0.00	3140.52	0.00	0.00	0.00
139 Structure - (242)	3137.23	3140.48	3.26	3137.23	0.00	3140.48	0.00	0.00	0.00
140 Structure - (243)	3137.19	3140.44	3.26	3137.19	0.00	3140.44	0.00	0.00	0.00
141 Structure - (244)	3137.09	3140.35	3.26	3137.09	0.00	3140.35	0.00	0.00	0.00
142 Structure - (245)	3137.04	3140.30	3.26	3137.04	0.00	3140.30	0.00	0.00	0.00
143 Structure - (246)	3136.98	3140.23	3.26	3136.98	0.00	3140.23	0.00	0.00	0.00
144 Structure - (247)	3136.89	3140.14	3.26	3136.89	0.00	3140.14	0.00	0.00	0.00
145 Structure - (248)	3136.61	3139.87	3.26	3136.61	0.00	3139.87	0.00	0.00	0.00
146 Structure - (249)	3136.43	3139.68	3.26	3136.43	0.00	3139.68	0.00	0.00	0.00
147 Structure - (250)	3136.35	3139.60	3.26	3136.35	0.00	3139.60	0.00	0.00	0.00
148 Structure - (251)	3136.30	3139.56	3.26	3136.30	0.00	3139.56	0.00	0.00	0.00
149 Structure - (252)	3136.17	3139.43	3.26	3136.17	0.00	3139.43	0.00	0.00	0.00
150 Structure - (253)	3136.02	3139.28	3.26	3136.02	0.00	3139.28	0.00	0.00	0.00
151 Structure - (254)	3135.63	3138.89	3.26	3135.63	0.00	3138.89	0.00	0.00	0.00
152 Structure - (255)	3135.24	3138.49	3.26	3135.24	0.00	3138.49	0.00	0.00	0.00
153 Structure - (257)	3134.60	3137.86	3.26	3134.60	0.00	3137.86	0.00	0.00	0.00
154 Structure - (258)	3134.47	3137.72	3.26	3134.47	0.00	3137.72	0.00	0.00	0.00
155 Structure - (259)	3134.17	3138.70	4.53	3134.17	0.00	3138.70	0.00	0.00	0.00
156 Structure - (260)	3134.15	3137.41	3.26	3134.15	0.00	3137.41	0.00	0.00	0.00
157 Structure - (261)	3134.03	3137.29	3.26	3134.03	0.00	3137.29	0.00	0.00	0.00
158 Structure - (262)	3133.85	3137.10	3.26	3133.85	0.00	3137.10	0.00	0.00	0.00
159 Structure - (263)	3133.53	3136.78	3.26	3133.53	0.00	3136.78	0.00	0.00	0.00
160 Structure - (264)	3133.40	3136.66	3.26	3133.40	0.00	3136.66	0.00	0.00	0.00
161 Structure - (265)	3133.13	3136.39	3.26	3133.13	0.00	3136.39	0.00	0.00	0.00
162 Structure - (266)	3132.95	3136.20	3.26	3132.95	0.00	3136.20	0.00	0.00	0.00
163 Structure - (267)	3132.90	3136.15	3.26	3132.90	0.00	3136.15	0.00	0.00	0.00
164 Structure - (268)	3132.79	3136.05	3.26	3132.79	0.00	3136.05	0.00	0.00	0.00



## Junction Input

SN Element ID	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Initial Water Elevation (ft)	Initial Water Depth (ft)	Surcharge Elevation (ft)	Surcharge Depth (ft)	Ponded Area (ft <sup>2</sup> )	Minimum Pipe Cover (in)
165 Structure - (269)	3132.58	3137.10	4.52	3132.58	0.00	3137.10	0.00	0.00	0.00
166 Structure - (270)	3132.32	3135.58	3.26	3132.32	0.00	3135.58	0.00	0.00	0.00
167 Structure - (271)	3132.30	3135.55	3.26	3132.30	0.00	3135.55	0.00	0.00	0.00
168 Structure - (273)	3131.95	3135.21	3.26	3131.95	0.00	3135.21	0.00	0.00	0.00
169 Structure - (274)	3131.86	3135.11	3.26	3131.86	0.00	3135.11	0.00	0.00	0.00
170 Structure - (275)	3131.77	3135.02	3.26	3131.77	0.00	3135.02	0.00	0.00	0.00
171 Structure - (276)	3131.69	3134.94	3.26	3131.69	0.00	3134.94	0.00	0.00	0.00
172 Structure - (277)	3131.67	3134.93	3.26	3131.67	0.00	3134.93	0.00	0.00	0.00
173 Structure - (278)	3131.57	3134.83	3.26	3131.57	0.00	3134.83	0.00	0.00	0.00
174 Structure - (279)	3131.31	3134.56	3.26	3131.31	0.00	3134.56	0.00	0.00	0.00
175 Structure - (280)	3131.28	3134.53	3.26	3131.28	0.00	3134.53	0.00	0.00	0.00
176 Structure - (281)	3131.15	3134.40	3.26	3131.15	0.00	3134.40	0.00	0.00	0.00
177 Structure - (282)	3131.01	3134.26	3.26	3131.01	0.00	3134.26	0.00	0.00	0.00
178 Structure - (283)	3130.62	3133.88	3.26	3130.62	0.00	3133.88	0.00	0.00	0.00
179 Structure - (284)	3130.41	3133.67	3.26	3130.41	0.00	3133.67	0.00	0.00	0.00
180 Structure - (285)	3130.16	3133.42	3.26	3130.16	0.00	3133.42	0.00	0.00	0.00
181 Structure - (286)	3129.95	3133.20	3.26	3129.95	0.00	3133.20	0.00	0.00	0.00
182 Structure - (287)	3129.65	3132.91	3.26	3129.65	0.00	3132.91	0.00	0.00	0.00
183 Structure - (288)	3129.36	3132.62	3.26	3129.36	0.00	3132.62	0.00	0.00	0.00
184 Structure - (289)	3129.24	3132.50	3.26	3129.24	0.00	3132.50	0.00	0.00	0.00
185 Structure - (290)	3129.01	3133.50	4.49	3129.01	0.00	3133.50	0.00	0.00	0.00
186 Structure - (291)	3128.73	3131.98	3.26	3128.73	0.00	3131.98	0.00	0.00	0.00
187 Structure - (292)	3128.43	3131.69	3.26	3128.43	0.00	3131.69	0.00	0.00	0.00
188 Structure - (571)	3135.85	3140.40	4.55	3135.85	0.00	3140.40	0.00	0.00	0.00
189 Structure - (572)	3130.80	3135.30	4.50	3130.80	0.00	3135.30	0.00	0.00	0.00
190 Structure - (592)	3151.75	3156.08	4.33	3151.75	0.00	3156.08	0.00	0.00	0.00
191 Structure - (593)	3151.61	3155.94	4.33	3151.61	0.00	3155.94	0.00	0.00	0.00
192 Structure - (594)	3157.95	3160.95	3.00	3158.14	0.19	3161.89	0.94	0.00	0.00
193 Structure - (595)	3157.63	3160.63	3.00	3157.78	0.15	3161.49	0.86	0.00	0.00
194 Structure - (596)	3157.30	3160.30	3.00	3156.95	-0.35	3161.18	0.88	0.00	0.00
195 Structure - (82)	3160.05	3163.31	3.26	3160.05	0.00	3163.31	0.00	0.00	0.00
196 Structure - (83)	3159.91	3163.17	3.26	3159.91	0.00	3163.17	0.00	0.00	0.00
197 Structure - (84)	3159.71	3162.71	3.00	3159.72	0.01	3162.98	0.27	0.00	0.00
198 Structure - (85)	3159.60	3162.60	3.00	3159.61	0.01	3162.86	0.26	0.00	0.00
199 Structure - (86)	3159.51	3162.51	3.00	3159.52	0.01	3162.78	0.27	0.00	0.00
200 Structure - (87)	3159.48	3162.48	3.00	3159.50	0.02	3162.75	0.27	0.00	0.00
201 Structure - (88)	3159.37	3162.37	3.00	3159.39	0.02	3162.64	0.27	0.00	0.00
202 Structure - (89)	3159.34	3162.34	3.00	3159.36	0.02	3162.62	0.28	0.00	0.00
203 Structure - (90)	3159.31	3162.31	3.00	3159.34	0.03	3162.59	0.28	0.00	0.00
204 Structure - (91)	3159.26	3162.26	3.00	3159.29	0.03	3162.55	0.29	0.00	0.00
205 Structure - (92)	3159.18	3162.18	3.00	3159.21	0.03	3162.47	0.29	0.00	0.00
206 Structure - (93)	3159.13	3162.13	3.00	3159.17	0.04	3162.42	0.29	0.00	0.00
207 Structure - (94)	3159.09	3162.09	3.00	3159.13	0.04	3162.39	0.30	0.00	0.00
208 Structure - (95)	3159.05	3162.05	3.00	3159.09	0.04	3162.35	0.30	0.00	0.00
209 Structure - (96)	3159.02	3162.02	3.00	3159.06	0.04	3162.33	0.31	0.00	0.00
210 Structure - (97)	3158.92	3161.92	3.00	3158.88	-0.04	3162.14	0.22	0.00	0.00
211 Structure - (98)	3158.86	3161.86	3.00	3158.83	-0.03	3163.30	1.44	0.00	0.00
212 Structure - (99)	3158.81	3161.81	3.00	3158.79	-0.02	3162.04	0.23	0.00	0.00

# Junction Results

SN	Element ID	Peak Inflow	Max HGL Elevation	Max HGL Depth	Max Surge Depth	Min Freeboard	Average HGL Elevation	Average HGL Depth	Total Flooded Volume
		(cfs)	(ft)	(ft)	Attained (ft)	(ft)	(ft)	(ft)	(ac-in)
1	OroleveSiphonOutlet	24.00	3162.25	2.17	0.00	0.83	3162.25	2.17	0.00
2	Structure - (100)	24.00	3161.12	2.36	0.00	0.64	3161.12	2.36	0.00
3	Structure - (101)	24.00	3161.05	2.37	0.00	0.63	3161.05	2.37	0.00
4	Structure - (102)	24.00	3160.85	2.40	0.00	0.60	3160.85	2.40	0.00
5	Structure - (103)	24.00	3160.74	2.40	0.00	0.60	3160.74	2.40	0.00
6	Structure - (104)	24.00	3160.53	2.31	0.00	0.69	3160.53	2.31	0.00
7	Structure - (105)	24.00	3160.37	2.20	0.00	0.80	3160.37	2.20	0.00
8	Structure - (106)	24.00	3160.39	2.25	0.00	0.75	3160.39	2.25	0.00
9	Structure - (107)	24.00	3160.49	2.40	0.00	0.60	3160.49	2.40	0.00
10	Structure - (108)	24.00	3160.45	2.40	0.00	0.60	3160.45	2.40	0.00
11	Structure - (109)	24.00	3160.24	2.31	0.00	0.69	3160.24	2.31	0.00
12	Structure - (110)	24.00	3160.17	2.30	0.00	0.70	3160.17	2.30	0.00
13	Structure - (111)	24.00	3160.20	2.36	0.00	0.64	3160.20	2.36	0.00
14	Structure - (112)	24.00	3160.15	2.36	0.00	0.64	3160.15	2.36	0.00
15	Structure - (113)	24.00	3160.09	2.32	0.00	0.68	3160.09	2.32	0.00
16	Structure - (114)	24.00	3160.06	2.33	0.00	0.67	3160.06	2.33	0.00
17	Structure - (116)	24.00	3159.10	2.00	0.00	2.00	3159.10	2.00	0.00
18	Structure - (117)	24.00	3159.05	2.00	0.00	1.00	3159.05	2.00	0.00
19	Structure - (118)	24.00	3159.26	2.26	0.00	0.74	3159.26	2.26	0.00
20	Structure - (119)	24.00	3159.34	2.39	0.00	0.61	3159.34	2.39	0.00
21	Structure - (120)	24.00	3159.20	2.39	0.00	0.61	3159.20	2.39	0.00
22	Structure - (121)	24.00	3158.34	1.78	0.00	1.92	3158.34	1.78	0.00
23	Structure - (122)	24.00	3158.12	1.77	0.00	1.48	3158.12	1.77	0.00
24	Structure - (123)	24.00	3158.03	1.77	0.00	1.48	3158.03	1.77	0.00
25	Structure - (124)	24.00	3157.92	1.77	0.00	1.48	3157.92	1.77	0.00
26	Structure - (125)	24.00	3157.70	1.77	0.00	1.49	3157.70	1.77	0.00
27	Structure - (126)	24.00	3157.16	1.77	0.00	1.49	3157.16	1.77	0.00
28	Structure - (127)	24.00	3156.51	1.77	0.00	2.79	3156.51	1.77	0.00
29	Structure - (128)	24.00	3156.15	1.77	0.00	1.49	3156.15	1.77	0.00
30	Structure - (129)	24.00	3156.01	1.77	0.00	1.49	3156.01	1.77	0.00
31	Structure - (130)	24.00	3155.94	1.77	0.00	1.48	3155.94	1.77	0.00
32	Structure - (131)	24.00	3155.87	1.77	0.00	1.48	3155.87	1.77	0.00
33	Structure - (132)	24.00	3155.84	1.77	0.00	1.48	3155.84	1.77	0.00
34	Structure - (133)	24.00	3155.64	1.77	0.00	1.48	3155.64	1.77	0.00
35	Structure - (134)	24.00	3155.58	1.77	0.00	1.48	3155.58	1.77	0.00
36	Structure - (135)	24.00	3155.31	1.77	0.00	1.48	3155.31	1.77	0.00
37	Structure - (136)	24.00	3155.52	2.15	0.00	2.18	3155.52	2.15	0.00
38	Structure - (137)	24.00	3155.49	2.15	0.00	2.18	3155.49	2.15	0.00
39	Structure - (138)	24.00	3155.27	2.13	0.00	1.12	3155.27	2.13	0.00
40	Structure - (139)	24.00	3155.36	2.36	0.00	0.90	3155.36	2.36	0.00
41	Structure - (140)	24.00	3155.27	2.35	0.00	0.90	3155.27	2.35	0.00
42	Structure - (141)	24.00	3154.98	2.14	0.00	1.12	3154.98	2.14	0.00
43	Structure - (142)	24.00	3154.74	2.14	0.00	2.36	3154.74	2.14	0.00
44	Structure - (143)	24.00	3154.68	2.14	0.00	1.12	3154.68	2.14	0.00
45	Structure - (144)	24.00	3154.58	2.14	0.00	1.12	3154.58	2.14	0.00
46	Structure - (145)	24.00	3154.50	2.14	0.00	1.12	3154.50	2.14	0.00
47	Structure - (146)	24.00	3154.36	2.14	0.00	1.12	3154.36	2.14	0.00
48	Structure - (147)	24.00	3154.09	2.13	0.00	1.12	3154.09	2.13	0.00
49	Structure - (148)	24.00	3154.00	2.14	0.00	1.12	3154.00	2.14	0.00
50	Structure - (149)	24.00	3153.98	2.18	0.00	1.07	3153.98	2.18	0.00
51	Structure - (150)	24.00	3153.94	2.18	0.00	1.07	3153.94	2.18	0.00
52	Structure - (152)	24.00	3153.69	2.09	0.00	1.16	3153.69	2.09	0.00
53	Structure - (153)	24.00	3153.33	2.07	0.00	1.18	3153.33	2.07	0.00
54	Structure - (154)	24.00	3153.21	2.07	0.00	1.19	3153.21	2.07	0.00
55	Structure - (155)	24.00	3153.05	2.07	0.00	2.45	3153.05	2.07	0.00
56	Structure - (156)	24.00	3152.77	2.07	0.00	1.19	3152.77	2.07	0.00
57	Structure - (157)	24.00	3152.70	2.07	0.00	1.19	3152.70	2.07	0.00
58	Structure - (158)	24.00	3152.47	2.07	0.00	1.19	3152.47	2.07	0.00
59	Structure - (159)	24.00	3152.33	2.07	0.00	1.19	3152.33	2.07	0.00
60	Structure - (160)	24.00	3152.31	2.07	0.00	1.19	3152.31	2.07	0.00
61	Structure - (161)	24.00	3152.25	2.07	0.00	1.19	3152.25	2.07	0.00
62	Structure - (162)	24.00	3152.12	2.07	0.00	1.18	3152.12	2.07	0.00
63	Structure - (163)	24.00	3152.11	2.07	0.00	2.26	3152.11	2.07	0.00
64	Structure - (164)	24.00	3151.95	1.99	0.00	2.34	3151.95	1.99	0.00
65	Structure - (166)	24.00	3151.80	1.99	0.00	1.27	3151.80	1.99	0.00
66	Structure - (167)	24.00	3151.72	1.99	0.00	1.27	3151.72	1.99	0.00
67	Structure - (168)	24.00	3151.64	1.99	0.00	1.27	3151.64	1.99	0.00
68	Structure - (169)	24.00	3151.45	1.99	0.00	2.55	3151.45	1.99	0.00
69	Structure - (170)	24.00	3151.13	1.99	0.00	1.27	3151.13	1.99	0.00
70	Structure - (171)	24.00	3150.85	1.98	0.00	1.27	3150.85	1.98	0.00
71	Structure - (172)	24.00	3150.68	1.99	0.00	1.27	3150.68	1.99	0.00
72	Structure - (173)	24.00	3150.31	1.99	0.00	1.27	3150.31	1.99	0.00
73	Structure - (174)	24.00	3150.18	1.99	0.00	1.27	3150.18	1.99	0.00
74	Structure - (175)	24.00	3149.50	1.99	0.00	2.50	3149.50	1.99	0.00
75	Structure - (176)	24.00	3149.43	1.99	0.00	1.27	3149.43	1.99	0.00
76	Structure - (177)	24.00	3149.36	1.99	0.00	1.27	3149.36	1.99	0.00
77	Structure - (178)	24.00	3149.26	1.99	0.00	1.27	3149.26	1.99	0.00
78	Structure - (179)	24.00	3149.06	1.99	0.00	1.27	3149.06	1.99	0.00
79	Structure - (180)	24.00	3148.86	1.99	0.00	1.27	3148.86	1.99	0.00
80	Structure - (181)	24.00	3148.60	1.99	0.00	1.27	3148.60	1.99	0.00
81	Structure - (182)	24.00	3148.36	1.99	0.00	1.27	3148.36	1.99	0.00

# Junction Results

SN Element ID	Peak Inflow	Max HGL Elevation	Max HGL Depth	Max Surge Depth Attained	Min Freeboard Attained	Average HGL Elevation	Average HGL Depth Attained	Total Flooded Volume
	(cfs)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ac-in)
82 Structure - (183)	24.00	3148.33	1.98	0.00	1.27	3148.33	1.98	0.00
83 Structure - (184)	24.00	3148.28	1.99	0.00	1.27	3148.28	1.99	0.00
84 Structure - (185)	24.00	3148.16	1.99	0.00	1.27	3148.16	1.99	0.00
85 Structure - (186)	24.00	3148.00	1.99	0.00	1.27	3148.00	1.99	0.00
86 Structure - (187)	24.00	3147.82	1.99	0.00	2.34	3147.82	1.99	0.00
87 Structure - (188)	24.00	3147.71	1.99	0.00	2.49	3147.71	1.99	0.00
88 Structure - (189)	24.00	3147.70	1.99	0.00	1.27	3147.70	1.99	0.00
89 Structure - (190)	24.00	3147.55	1.99	0.00	1.27	3147.55	1.99	0.00
90 Structure - (191)	24.00	3147.48	1.99	0.00	1.27	3147.48	1.99	0.00
91 Structure - (192)	24.00	3147.17	1.99	0.00	1.27	3147.17	1.99	0.00
92 Structure - (193)	24.00	3147.07	1.99	0.00	1.27	3147.07	1.99	0.00
93 Structure - (195)	24.00	3146.63	1.98	0.00	1.27	3146.63	1.98	0.00
94 Structure - (196)	24.00	3146.57	1.99	0.00	1.27	3146.57	1.99	0.00
95 Structure - (197)	24.00	3146.34	1.99	0.00	1.27	3146.34	1.99	0.00
96 Structure - (198)	24.00	3146.30	1.99	0.00	1.27	3146.30	1.99	0.00
97 Structure - (199)	24.00	3146.19	1.98	0.00	1.27	3146.19	1.98	0.00
98 Structure - (200)	24.00	3146.10	1.99	0.00	1.27	3146.10	1.99	0.00
99 Structure - (201)	24.00	3145.97	1.98	0.00	2.53	3145.97	1.98	0.00
100 Structure - (202)	24.00	3145.84	1.99	0.00	1.27	3145.84	1.99	0.00
101 Structure - (203)	24.00	3145.75	1.99	0.00	1.27	3145.75	1.99	0.00
102 Structure - (204)	24.00	3145.64	1.98	0.00	1.27	3145.64	1.98	0.00
103 Structure - (205)	24.00	3145.53	1.99	0.00	1.27	3145.53	1.99	0.00
104 Structure - (206)	24.00	3145.19	1.99	0.00	1.27	3145.19	1.99	0.00
105 Structure - (207)	24.00	3144.92	1.99	0.00	1.27	3144.92	1.99	0.00
106 Structure - (208)	24.00	3144.40	1.99	0.00	1.27	3144.40	1.99	0.00
107 Structure - (209)	24.00	3144.33	1.99	0.00	1.71	3144.33	1.99	0.00
108 Structure - (210)	24.00	3144.13	1.89	0.00	1.81	3144.13	1.89	0.00
109 Structure - (211)	24.00	3143.99	1.85	0.00	1.40	3143.99	1.85	0.00
110 Structure - (212)	24.00	3143.64	1.86	0.00	2.66	3143.64	1.86	0.00
111 Structure - (213)	24.00	3143.05	1.85	0.00	1.40	3143.05	1.85	0.00
112 Structure - (214)	24.00	3142.66	1.85	0.00	1.40	3142.66	1.85	0.00
113 Structure - (215)	24.00	3142.19	1.86	0.00	1.40	3142.19	1.86	0.00
114 Structure - (216)	24.00	3141.97	1.85	0.00	1.40	3141.97	1.85	0.00
115 Structure - (217)	24.00	3141.83	1.86	0.00	1.40	3141.83	1.86	0.00
116 Structure - (218)	24.00	3141.71	1.86	0.00	1.40	3141.71	1.86	0.00
117 Structure - (219)	24.00	3141.61	1.86	0.00	1.40	3141.61	1.86	0.00
118 Structure - (220)	24.00	3141.41	1.86	0.00	1.40	3141.41	1.86	0.00
119 Structure - (221)	24.00	3141.59	1.86	0.00	2.61	3141.59	1.86	0.00
120 Structure - (222)	24.00	3141.45	1.85	0.00	1.40	3141.45	1.85	0.00
121 Structure - (223)	24.00	3141.38	1.85	0.00	1.40	3141.38	1.85	0.00
122 Structure - (224)	24.00	3141.30	1.86	0.00	1.40	3141.30	1.86	0.00
123 Structure - (225)	24.00	3141.28	1.86	0.00	1.40	3141.28	1.86	0.00
124 Structure - (226)	24.00	3141.25	1.85	0.00	1.40	3141.25	1.85	0.00
125 Structure - (227)	24.00	3141.05	1.85	0.00	1.40	3141.05	1.85	0.00
126 Structure - (228)	24.00	3140.76	1.86	0.00	1.40	3140.76	1.86	0.00
127 Structure - (229)	24.00	3140.61	1.86	0.00	1.40	3140.61	1.86	0.00
128 Structure - (230)	24.00	3140.53	1.86	0.00	1.40	3140.53	1.86	0.00
129 Structure - (231)	24.00	3140.31	1.85	0.00	1.40	3140.31	1.85	0.00
130 Structure - (232)	24.00	3140.16	1.85	0.00	1.40	3140.16	1.85	0.00
131 Structure - (233)	24.00	3140.00	1.86	0.00	1.40	3140.00	1.86	0.00
132 Structure - (234)	24.00	3139.95	1.85	0.00	1.40	3139.95	1.85	0.00
133 Structure - (235)	24.00	3139.85	1.85	0.00	2.47	3139.85	1.85	0.00
134 Structure - (236)	24.00	3139.88	2.10	0.00	2.23	3139.88	2.10	0.00
135 Structure - (238)	24.00	3139.74	2.09	0.00	1.16	3139.74	2.09	0.00
136 Structure - (239)	24.00	3139.57	2.07	0.00	2.43	3139.57	2.07	0.00
137 Structure - (240)	24.00	3139.38	2.07	0.00	1.18	3139.38	2.07	0.00
138 Structure - (241)	24.00	3139.35	2.08	0.00	1.17	3139.35	2.08	0.00
139 Structure - (242)	24.00	3139.31	2.08	0.00	1.17	3139.31	2.08	0.00
140 Structure - (243)	24.00	3139.27	2.08	0.00	1.18	3139.27	2.08	0.00
141 Structure - (244)	24.00	3139.17	2.08	0.00	1.18	3139.17	2.08	0.00
142 Structure - (245)	24.00	3139.12	2.08	0.00	1.18	3139.12	2.08	0.00
143 Structure - (246)	24.00	3139.05	2.07	0.00	1.18	3139.05	2.07	0.00
144 Structure - (247)	24.00	3138.97	2.08	0.00	1.18	3138.97	2.08	0.00
145 Structure - (248)	24.00	3138.69	2.08	0.00	1.18	3138.69	2.08	0.00
146 Structure - (249)	24.00	3138.50	2.07	0.00	1.18	3138.50	2.07	0.00
147 Structure - (250)	24.00	3138.42	2.07	0.00	1.18	3138.42	2.07	0.00
148 Structure - (251)	24.00	3138.38	2.08	0.00	1.18	3138.38	2.08	0.00
149 Structure - (252)	24.00	3138.25	2.08	0.00	1.18	3138.25	2.08	0.00
150 Structure - (253)	24.00	3138.10	2.08	0.00	1.18	3138.10	2.08	0.00
151 Structure - (254)	24.00	3137.71	2.08	0.00	1.18	3137.71	2.08	0.00
152 Structure - (255)	24.00	3137.31	2.07	0.00	1.18	3137.31	2.07	0.00
153 Structure - (257)	24.00	3136.68	2.08	0.00	1.18	3136.68	2.08	0.00
154 Structure - (258)	24.00	3136.54	2.07	0.00	1.18	3136.54	2.07	0.00
155 Structure - (259)	24.00	3136.25	2.08	0.00	2.45	3136.25	2.08	0.00
156 Structure - (260)	24.00	3136.23	2.08	0.00	1.18	3136.23	2.08	0.00
157 Structure - (261)	24.00	3136.11	2.08	0.00	1.18	3136.11	2.08	0.00
158 Structure - (262)	24.00	3135.92	2.07	0.00	1.18	3135.92	2.07	0.00
159 Structure - (263)	24.00	3135.60	2.07	0.00	1.18	3135.60	2.07	0.00
160 Structure - (264)	24.00	3135.48	2.08	0.00	1.18	3135.48	2.08	0.00
161 Structure - (265)	24.00	3135.21	2.08	0.00	1.18	3135.21	2.08	0.00
162 Structure - (266)	24.00	3135.02	2.07	0.00	1.18	3135.02	2.07	0.00

## Junction Results

SN Element ID	Peak Inflow	Max HGL Elevation Attained	Max HGL Depth Attained	Max Surge Depth Attained	Min Freeboard Attained	Average HGL Elevation Attained	Average HGL Depth Attained	Total Flooded Volume
	(cfs)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ac-in)
163 Structure - (267)	24.00	3134.97	2.07	0.00	1.18	3134.97	2.07	0.00
164 Structure - (268)	24.00	3134.88	2.09	0.00	1.17	3134.88	2.09	0.00
165 Structure - (269)	24.00	3134.66	2.08	0.00	2.44	3134.66	2.08	0.00
166 Structure - (270)	24.00	3134.33	2.01	0.00	1.25	3134.33	2.01	0.00
167 Structure - (271)	24.00	3134.30	2.00	0.00	1.25	3134.30	2.00	0.00
168 Structure - (273)	24.00	3133.96	2.01	0.00	1.25	3133.96	2.01	0.00
169 Structure - (274)	24.00	3133.86	2.00	0.00	1.25	3133.86	2.00	0.00
170 Structure - (275)	24.00	3133.77	2.00	0.00	1.25	3133.77	2.00	0.00
171 Structure - (276)	24.00	3133.71	2.02	0.00	1.24	3133.71	2.02	0.00
172 Structure - (277)	24.00	3133.69	2.02	0.00	1.24	3133.69	2.02	0.00
173 Structure - (278)	24.00	3133.58	2.01	0.00	1.25	3133.58	2.01	0.00
174 Structure - (279)	24.00	3133.31	2.00	0.00	1.25	3133.31	2.00	0.00
175 Structure - (280)	24.00	3133.28	2.00	0.00	1.25	3133.28	2.00	0.00
176 Structure - (281)	24.00	3133.15	2.00	0.00	1.25	3133.15	2.00	0.00
177 Structure - (282)	24.00	3133.01	2.00	0.00	1.25	3133.01	2.00	0.00
178 Structure - (283)	24.00	3132.63	2.01	0.00	1.25	3132.63	2.01	0.00
179 Structure - (284)	24.00	3132.42	2.01	0.00	1.25	3132.42	2.01	0.00
180 Structure - (285)	24.00	3132.17	2.01	0.00	1.25	3132.17	2.01	0.00
181 Structure - (286)	24.00	3131.96	2.01	0.00	1.25	3131.96	2.01	0.00
182 Structure - (287)	24.00	3131.66	2.01	0.00	1.25	3131.66	2.01	0.00
183 Structure - (288)	24.00	3131.37	2.01	0.00	1.25	3131.37	2.01	0.00
184 Structure - (289)	24.00	3131.25	2.01	0.00	1.25	3131.25	2.01	0.00
185 Structure - (290)	24.00	3131.01	2.00	0.00	2.49	3131.01	2.00	0.00
186 Structure - (291)	24.00	3130.73	2.00	0.00	1.25	3130.73	2.00	0.00
187 Structure - (292)	24.00	3130.44	2.01	0.00	1.25	3130.44	2.01	0.00
188 Structure - (571)	24.00	3137.93	2.08	0.00	2.47	3137.93	2.08	0.00
189 Structure - (572)	24.00	3132.80	2.00	0.00	2.50	3132.80	2.00	0.00
190 Structure - (592)	24.00	3153.89	2.14	0.00	2.18	3153.89	2.14	0.00
191 Structure - (593)	24.00	3153.70	2.09	0.00	2.24	3153.70	2.09	0.00
192 Structure - (594)	24.00	3160.26	2.31	0.00	0.69	3160.26	2.31	0.00
193 Structure - (595)	24.00	3159.96	2.33	0.00	0.67	3159.96	2.33	0.00
194 Structure - (596)	24.00	3159.20	1.90	0.00	2.10	3159.20	1.90	0.00
195 Structure - (82)	24.00	3162.34	2.29	0.00	0.96	3162.34	2.29	0.00
196 Structure - (83)	24.00	3162.20	2.29	0.00	0.97	3162.20	2.29	0.00
197 Structure - (84)	24.00	3161.98	2.27	0.00	0.73	3161.98	2.27	0.00
198 Structure - (85)	24.00	3161.89	2.29	0.00	0.71	3161.89	2.29	0.00
199 Structure - (86)	24.00	3161.80	2.29	0.00	0.71	3161.80	2.29	0.00
200 Structure - (87)	24.00	3161.71	2.23	0.00	0.77	3161.71	2.23	0.00
201 Structure - (88)	24.00	3161.63	2.26	0.00	0.74	3161.63	2.26	0.00
202 Structure - (89)	24.00	3161.60	2.26	0.00	0.74	3161.60	2.26	0.00
203 Structure - (90)	24.00	3161.65	2.34	0.00	0.66	3161.65	2.34	0.00
204 Structure - (91)	24.00	3161.60	2.34	0.00	0.66	3161.60	2.34	0.00
205 Structure - (92)	24.00	3161.49	2.31	0.00	0.69	3161.49	2.31	0.00
206 Structure - (93)	24.00	3161.43	2.30	0.00	0.70	3161.43	2.30	0.00
207 Structure - (94)	24.00	3161.39	2.30	0.00	0.70	3161.39	2.30	0.00
208 Structure - (95)	24.00	3161.29	2.24	0.00	0.76	3161.29	2.24	0.00
209 Structure - (96)	24.00	3161.41	2.39	0.00	0.61	3161.41	2.39	0.00
210 Structure - (97)	24.00	3161.31	2.39	0.00	0.61	3161.31	2.39	0.00
211 Structure - (98)	24.00	3161.21	2.35	0.00	0.65	3161.21	2.35	0.00
212 Structure - (99)	24.00	3161.15	2.34	0.00	0.66	3161.15	2.34	0.00

# Pipe Input

SN Element ID	Length (ft)	Inlet Invert Elevation (ft)	Outlet Invert Elevation (ft)	Average Slope (%)	Pipe Diameter or Height (in)	Manning's Roughness	Entrance Losses	Exit/Bend Losses	Initial Flow (cfs)
1 Pipe - (100)	95.97	3158.34	3158.22	0.1300	36.000	0.0120	0.6000	0.6000	0.00
2 Pipe - (100)-WoodtoHdpe	95.21	3158.45	3158.34	0.1200	36.000	0.0120	0.6000	0.6000	0.00
3 Pipe - (101)	35.62	3158.22	3158.17	0.1400	36.000	0.0120	0.6000	0.6000	0.00
4 Pipe - (102)	18.05	3158.17	3158.14	0.1700	36.000	0.0120	0.6000	0.6000	0.00
5 Pipe - (103)	37.45	3158.14	3158.09	0.1300	36.000	0.0120	0.6000	0.6000	0.00
6 Pipe - (104)	34.66	3158.09	3158.05	0.1200	36.000	0.0120	0.6000	0.6000	0.00
7 Pipe - (104)-WoodtoHdpe	79.43	3158.05	3157.95	0.1300	36.000	0.0120	0.6000	0.6000	0.00
8 Pipe - (105)	47.62	3157.93	3157.87	0.1300	36.000	0.0120	0.6000	0.6000	0.00
9 Pipe - (105)-WoodtoHdpe	16.00	3157.95	3157.93	0.1200	36.000	0.0120	0.6000	0.6000	0.00
10 Pipe - (106)	23.07	3157.87	3157.84	0.1300	36.000	0.0120	0.6000	0.6000	0.00
11 Pipe - (107)	41.68	3157.84	3157.79	0.1200	36.000	0.0120	0.6000	0.6000	0.00
12 Pipe - (108)	15.01	3157.79	3157.77	0.1300	36.000	0.0120	0.6000	0.6000	0.00
13 Pipe - (109)	32.16	3157.77	3157.73	0.1200	36.000	0.0120	0.6000	0.6000	0.00
14 Pipe - (109)-WoodtoHdpe	81.51	3157.73	3157.63	0.1200	36.000	0.0120	0.6000	0.6000	0.00
15 Pipe - (110)-EXCMP	175.95	3157.30	3157.10	0.1100	48.000	0.0120	0.6000	0.6000	0.00
16 Pipe - (110)-WoodtoHdpe	128.31	3157.63	3157.30	0.2600	36.000	0.0120	0.6000	0.6000	0.00
17 Pipe - (111)	27.92	3157.10	3157.05	0.1800	36.000	0.0120	0.6000	0.6000	0.00
18 Pipe - (112)	24.40	3157.05	3157.00	0.2000	36.000	0.0120	0.6000	0.6000	0.00
19 Pipe - (113)	37.92	3157.00	3156.95	0.1300	36.000	0.0120	0.6000	0.6000	0.00
20 Pipe - (114)	119.83	3156.95	3156.81	0.1200	36.000	0.0120	0.6000	0.6000	0.00
21 Pipe - (114)-WoodtoHdpe	51.66	3156.81	3156.56	0.4800	36.000	0.0120	0.6000	0.6000	0.00
22 Pipe - (115)	84.00	3156.56	3156.35	0.2500	36.000	0.0120	0.6000	0.6000	0.00
23 Pipe - (116)	33.36	3156.35	3156.26	0.2600	36.000	0.0120	0.6000	0.6000	0.00
24 Pipe - (117)	44.04	3156.26	3156.15	0.2600	36.000	0.0120	0.6000	0.6000	0.00
25 Pipe - (118)	83.78	3156.15	3155.93	0.2600	36.000	0.0120	0.6000	0.6000	0.00
26 Pipe - (119)	208.66	3155.93	3155.39	0.2600	36.000	0.0120	0.6000	0.6000	0.00
27 Pipe - (120)	250.61	3155.39	3154.74	0.2600	36.000	0.0120	0.6000	0.6000	0.00
28 Pipe - (121)	140.83	3154.74	3154.38	0.2600	36.000	0.0120	0.6000	0.6000	0.00
29 Pipe - (122)	55.04	3154.38	3154.24	0.2600	36.000	0.0120	0.6000	0.6000	0.00
30 Pipe - (123)	26.16	3154.24	3154.17	0.2600	36.000	0.0120	0.6000	0.6000	0.00
31 Pipe - (124)	28.87	3154.17	3154.10	0.2600	36.000	0.0120	0.6000	0.6000	0.00
32 Pipe - (125)	11.23	3154.10	3154.07	0.2600	36.000	0.0120	0.6000	0.6000	0.00
33 Pipe - (126)	77.62	3154.07	3153.87	0.2600	36.000	0.0120	0.6000	0.6000	0.00
34 Pipe - (127)	23.86	3153.87	3153.81	0.2600	36.000	0.0120	0.6000	0.6000	0.00
35 Pipe - (128)	101.97	3153.81	3153.54	0.2600	36.000	0.0120	0.6000	0.6000	0.00
36 Pipe - (129)	67.10	3153.54	3153.37	0.2600	36.000	0.0120	0.6000	0.6000	0.00
37 Pipe - (130)	20.12	3153.37	3153.34	0.1500	36.000	0.0120	0.6000	0.6000	0.00
38 Pipe - (131)	133.97	3153.34	3153.14	0.1500	36.000	0.0120	0.6000	0.6000	0.00
39 Pipe - (132)	78.52	3153.14	3153.00	0.1800	36.000	0.0120	0.6000	0.6000	0.00
40 Pipe - (133)	69.06	3153.00	3152.92	0.1200	36.000	0.0120	0.6000	0.6000	0.00
41 Pipe - (134)	52.13	3152.92	3152.84	0.1500	36.000	0.0120	0.6000	0.6000	0.00
42 Pipe - (135)	158.93	3152.84	3152.60	0.1500	36.000	0.0120	0.6000	0.6000	0.00
43 Pipe - (136)	39.78	3152.60	3152.54	0.1500	36.000	0.0120	0.6000	0.6000	0.00
44 Pipe - (137)	67.12	3152.54	3152.44	0.1500	36.000	0.0120	0.6000	0.6000	0.00
45 Pipe - (138)	51.56	3152.44	3152.36	0.1500	36.000	0.0120	0.6000	0.6000	0.00
46 Pipe - (139)	94.11	3152.36	3152.22	0.1500	36.000	0.0120	0.6000	0.6000	0.00
47 Pipe - (140)	175.48	3152.22	3151.96	0.1500	36.000	0.0120	0.6000	0.6000	0.00
48 Pipe - (141)	61.79	3151.96	3151.86	0.1500	36.000	0.0120	0.6000	0.6000	0.00
49 Pipe - (142)	39.96	3151.86	3151.80	0.1600	36.000	0.0120	0.6000	0.6000	0.00
50 Pipe - (143)	27.82	3151.80	3151.76	0.1400	36.000	0.0120	0.6000	0.6000	0.00
51 Pipe - (143)-ExCMPtoHDPE	79.25	3151.75	3151.61	0.1800	36.000	0.0120	0.6000	0.6000	0.00
52 Pipe - (144)	6.88	3151.76	3151.75	0.1500	36.000	0.0120	0.6000	0.6000	0.00
53 Pipe - (145)	6.27	3151.61	3151.60	0.1600	36.000	0.0120	0.6000	0.6000	0.00
54 Pipe - (146)	210.73	3151.60	3151.26	0.1600	36.000	0.0120	0.6000	0.6000	0.00
55 Pipe - (147)	69.19	3151.26	3151.14	0.1600	36.000	0.0120	0.6000	0.6000	0.00
56 Pipe - (148)	98.64	3151.14	3150.98	0.1600	36.000	0.0120	0.6000	0.6000	0.00
57 Pipe - (150)	42.62	3150.70	3150.63	0.1600	36.000	0.0120	0.6000	0.6000	0.00
58 Pipe - (151)	168.61	3150.98	3150.70	0.1600	36.000	0.0120	0.6000	0.6000	0.00
59 Pipe - (152)	144.64	3150.63	3150.40	0.1600	36.000	0.0120	0.6000	0.6000	0.00
60 Pipe - (153)	83.89	3150.40	3150.26	0.1600	36.000	0.0120	0.6000	0.6000	0.00
61 Pipe - (154)	14.09	3150.26	3150.24	0.1600	36.000	0.0120	0.6000	0.6000	0.00
62 Pipe - (155)	34.05	3150.24	3150.18	0.1600	36.000	0.0120	0.6000	0.6000	0.00
63 Pipe - (156)	79.15	3150.18	3150.05	0.1600	36.000	0.0120	0.6000	0.6000	0.00
64 Pipe - (157)	6.48	3150.05	3150.04	0.1600	36.000	0.0120	0.6000	0.6000	0.00
65 Pipe - (158)-ExCMPtoHDPE	42.50	3150.04	3149.96	0.1800	36.000	0.0120	0.6000	0.6000	0.00
66 Pipe - (159)	84.29	3149.96	3149.81	0.1800	36.000	0.0120	0.6000	0.6000	0.00
67 Pipe - (160)	42.07	3149.81	3149.73	0.1800	36.000	0.0120	0.6000	0.6000	0.00
68 Pipe - (161)	45.11	3149.73	3149.65	0.1800	36.000	0.0120	0.6000	0.6000	0.00
69 Pipe - (162)	101.12	3149.65	3149.46	0.1800	36.000	0.0120	0.6000	0.6000	0.00
70 Pipe - (163)	178.38	3149.46	3149.14	0.1800	36.000	0.0120	0.6000	0.6000	0.00
71 Pipe - (164)	149.74	3149.14	3148.87	0.1800	36.000	0.0120	0.6000	0.6000	0.00
72 Pipe - (165)	94.63	3148.87	3148.69	0.1800	36.000	0.0120	0.6000	0.6000	0.00
73 Pipe - (166)	202.14	3148.69	3148.32	0.1800	36.000	0.0120	0.6000	0.6000	0.00
74 Pipe - (167)	71.05	3148.32	3148.19	0.1800	36.000	0.0120	0.6000	0.6000	0.00
75 Pipe - (168)	376.77	3148.19	3147.51	0.1800	36.000	0.0120	0.6000	0.6000	0.00
76 Pipe - (169)	38.21	3147.51	3147.44	0.1800	36.000	0.0120	0.6000	0.6000	0.00
77 Pipe - (170)	33.64	3147.44	3147.37	0.1800	36.000	0.0120	0.6000	0.6000	0.00
78 Pipe - (171)	58.55	3147.37	3147.27	0.1800	36.000	0.0120	0.6000	0.6000	0.00
79 Pipe - (172)	109.91	3147.27	3147.07	0.1800	36.000	0.0120	0.6000	0.6000	0.00
80 Pipe - (173)	108.38	3147.07	3146.87	0.1800	36.000	0.0120	0.6000	0.6000	0.00
81 Pipe - (174)	140.28	3146.87	3146.61	0.1800	36.000	0.0120	0.6000	0.6000	0.00
82 Pipe - (175)	130.61	3146.61	3146.37	0.1800	36.000	0.0120	0.6000	0.6000	0.00

# Pipe Input

SN Element ID	Length (ft)	Inlet Invert Elevation (ft)	Outlet Invert Elevation (ft)	Average Slope (%)	Pipe Diameter or Height (in)	Manning's Roughness	Entrance Losses	Exit/Bend Losses	Initial Flow (cfs)
83 Pipe - (176)	15.81	3146.37	3146.35	0.1800	36.000	0.0120	0.6000	0.6000	0.00
84 Pipe - (177)	29.50	3146.35	3146.29	0.1800	36.000	0.0120	0.6000	0.6000	0.00
85 Pipe - (178)	66.39	3146.29	3146.17	0.1800	36.000	0.0120	0.6000	0.6000	0.00
86 Pipe - (179)	89.00	3146.17	3146.01	0.1800	36.000	0.0120	0.6000	0.6000	0.00
87 Pipe - (180)	97.78	3146.01	3145.83	0.1800	36.000	0.0120	0.6000	0.6000	0.00
88 Pipe - (181)	59.83	3145.83	3145.72	0.1800	36.000	0.0120	0.6000	0.6000	0.00
89 Pipe - (182)	6.65	3145.72	3145.71	0.1900	36.000	0.0120	0.6000	0.6000	0.00
90 Pipe - (183)	81.87	3145.71	3145.56	0.1800	36.000	0.0120	0.6000	0.6000	0.00
91 Pipe - (184)	37.14	3145.56	3145.49	0.1800	36.000	0.0120	0.6000	0.6000	0.00
92 Pipe - (185)	171.25	3145.49	3145.18	0.1800	36.000	0.0120	0.6000	0.6000	0.00
93 Pipe - (186)	50.77	3145.18	3145.08	0.1800	36.000	0.0120	0.6000	0.6000	0.00
94 Pipe - (189)	36.53	3144.65	3144.58	0.1800	36.000	0.0120	0.6000	0.6000	0.00
95 Pipe - (190)	126.36	3144.58	3144.35	0.1800	36.000	0.0120	0.6000	0.6000	0.00
96 Pipe - (191)	19.86	3144.35	3144.31	0.1800	36.000	0.0120	0.6000	0.6000	0.00
97 Pipe - (192)	59.18	3144.31	3144.21	0.1800	36.000	0.0120	0.6000	0.6000	0.00
98 Pipe - (193)	53.03	3144.21	3144.11	0.1800	36.000	0.0120	0.6000	0.6000	0.00
99 Pipe - (194)	67.10	3144.11	3143.99	0.1800	36.000	0.0120	0.6000	0.6000	0.00
100 Pipe - (195)	74.90	3143.99	3143.85	0.1800	36.000	0.0120	0.6000	0.6000	0.00
101 Pipe - (196)	48.61	3143.85	3143.76	0.1800	36.000	0.0120	0.6000	0.6000	0.00
102 Pipe - (197)	58.06	3143.76	3143.66	0.1800	36.000	0.0120	0.6000	0.6000	0.00
103 Pipe - (198)	62.71	3143.66	3143.54	0.1800	36.000	0.0120	0.6000	0.6000	0.00
104 Pipe - (199)	184.46	3143.54	3143.20	0.1800	36.000	0.0120	0.6000	0.6000	0.00
105 Pipe - (200)	147.79	3143.20	3142.93	0.1800	36.000	0.0120	0.6000	0.6000	0.00
106 Pipe - (201)	286.90	3142.93	3142.41	0.1800	36.000	0.0120	0.6000	0.6000	0.00
107 Pipe - (202)	38.21	3142.41	3142.34	0.1800	36.000	0.0120	0.6000	0.6000	0.00
108 Pipe - (202)-WoodtoHdpe	47.51	3142.34	3142.24	0.2100	36.000	0.0120	0.6000	0.6000	0.00
109 Pipe - (203)	45.26	3142.24	3142.14	0.2200	36.000	0.0120	0.6000	0.6000	0.00
110 Pipe - (204)	160.26	3142.14	3141.78	0.2200	36.000	0.0120	0.6000	0.6000	0.00
111 Pipe - (205)	261.48	3141.78	3141.20	0.2200	36.000	0.0120	0.6000	0.6000	0.00
112 Pipe - (206)	173.08	3141.20	3140.81	0.2200	36.000	0.0120	0.6000	0.6000	0.00
113 Pipe - (207)	213.13	3140.81	3140.33	0.2200	36.000	0.0120	0.6000	0.6000	0.00
114 Pipe - (208)	94.77	3140.33	3140.12	0.2200	36.000	0.0120	0.6000	0.6000	0.00
115 Pipe - (209)	66.56	3140.12	3139.97	0.2200	36.000	0.0120	0.6000	0.6000	0.00
116 Pipe - (210)	52.21	3139.97	3139.85	0.2200	36.000	0.0120	0.6000	0.6000	0.00
117 Pipe - (211)	45.50	3139.85	3139.75	0.2200	36.000	0.0120	0.6000	0.6000	0.00
118 Pipe - (213)	10.12	3139.75	3139.73	0.2200	36.000	0.0120	0.6000	0.6000	0.00
119 Pipe - (214)	59.31	3139.73	3139.60	0.2200	36.000	0.0120	0.6000	0.6000	0.00
120 Pipe - (215)	21.44	3139.60	3139.55	0.2200	36.000	0.0120	0.6000	0.6000	0.00
121 Pipe - (216)	9.56	3139.55	3139.53	0.2200	36.000	0.0120	0.6000	0.6000	0.00
122 Pipe - (217)	39.39	3139.53	3139.44	0.2200	36.000	0.0120	0.6000	0.6000	0.00
123 Pipe - (218)	9.01	3139.44	3139.42	0.2200	36.000	0.0120	0.6000	0.6000	0.00
124 Pipe - (219)	10.46	3139.42	3139.40	0.2200	36.000	0.0120	0.6000	0.6000	0.00
125 Pipe - (220)	89.67	3139.40	3139.20	0.2200	36.000	0.0120	0.6000	0.6000	0.00
126 Pipe - (221)	130.19	3139.20	3138.90	0.2200	36.000	0.0120	0.6000	0.6000	0.00
127 Pipe - (222)	67.12	3138.90	3138.75	0.2200	36.000	0.0120	0.6000	0.6000	0.00
128 Pipe - (223)	37.55	3138.75	3138.67	0.2200	36.000	0.0120	0.6000	0.6000	0.00
129 Pipe - (224)	94.62	3138.67	3138.46	0.2200	36.000	0.0120	0.6000	0.6000	0.00
130 Pipe - (225)	67.15	3138.46	3138.31	0.2200	36.000	0.0120	0.6000	0.6000	0.00
131 Pipe - (226)	74.60	3138.31	3138.14	0.2200	36.000	0.0120	0.6000	0.6000	0.00
132 Pipe - (227)	20.71	3138.14	3138.10	0.2200	36.000	0.0120	0.6000	0.6000	0.00
133 Pipe - (228)	42.77	3138.10	3138.00	0.2200	36.000	0.0120	0.6000	0.6000	0.00
134 Pipe - (229)	41.29	3138.00	3137.78	0.5300	36.000	0.0120	0.6000	0.6000	0.00
135 Pipe - (230)	238.89	3145.08	3144.65	0.1800	36.000	0.0120	0.6000	0.6000	0.00
136 Pipe - (231)	84.57	3137.78	3137.65	0.1600	36.000	0.0120	0.6000	0.6000	0.00
137 Pipe - (232)	91.67	3137.65	3137.50	0.1600	36.000	0.0120	0.6000	0.6000	0.00
138 Pipe - (233)	117.55	3137.50	3137.31	0.1600	36.000	0.0120	0.6000	0.6000	0.00
139 Pipe - (234)	22.80	3137.31	3137.27	0.1600	36.000	0.0120	0.6000	0.6000	0.00
140 Pipe - (235)	26.99	3137.27	3137.23	0.1600	36.000	0.0120	0.6000	0.6000	0.00
141 Pipe - (236)	22.10	3137.23	3137.19	0.1600	36.000	0.0120	0.6000	0.6000	0.00
142 Pipe - (237)	58.82	3137.19	3137.09	0.1600	36.000	0.0120	0.6000	0.6000	0.00
143 Pipe - (238)	30.18	3137.09	3137.04	0.1600	36.000	0.0120	0.6000	0.6000	0.00
144 Pipe - (239)	40.30	3137.04	3136.98	0.1600	36.000	0.0120	0.6000	0.6000	0.00
145 Pipe - (240)	55.56	3136.98	3136.89	0.1600	36.000	0.0120	0.6000	0.6000	0.00
146 Pipe - (241)	168.98	3136.89	3136.61	0.1600	36.000	0.0120	0.6000	0.6000	0.00
147 Pipe - (242)	114.72	3136.61	3136.43	0.1600	36.000	0.0120	0.6000	0.6000	0.00
148 Pipe - (243)	50.77	3136.43	3136.35	0.1600	36.000	0.0120	0.6000	0.6000	0.00
149 Pipe - (244)	26.72	3136.35	3136.30	0.1600	36.000	0.0120	0.6000	0.6000	0.00
150 Pipe - (245)	78.37	3136.30	3136.17	0.1600	36.000	0.0120	0.6000	0.6000	0.00
151 Pipe - (246)	93.33	3136.17	3136.02	0.1600	36.000	0.0120	0.6000	0.6000	0.00
152 Pipe - (248)	244.36	3135.63	3135.24	0.1600	36.000	0.0120	0.6000	0.6000	0.00
153 Pipe - (251)	82.48	3134.60	3134.47	0.1600	36.000	0.0120	0.6000	0.6000	0.00
154 Pipe - (252)	390.16	3135.24	3134.60	0.1600	36.000	0.0120	0.6000	0.6000	0.00
155 Pipe - (253)	180.66	3134.47	3134.17	0.1600	36.000	0.0120	0.6000	0.6000	0.00
156 Pipe - (254)	13.67	3134.17	3134.15	0.1600	36.000	0.0120	0.6000	0.6000	0.00
157 Pipe - (255)	74.60	3134.15	3134.03	0.1600	36.000	0.0120	0.6000	0.6000	0.00
158 Pipe - (256)	113.19	3134.03	3133.85	0.1600	36.000	0.0120	0.6000	0.6000	0.00
159 Pipe - (257)	198.51	3133.85	3133.53	0.1600	36.000	0.0120	0.6000	0.6000	0.00
160 Pipe - (258)	77.15	3133.53	3133.40	0.1600	36.000	0.0120	0.6000	0.6000	0.00
161 Pipe - (259)	163.89	3133.40	3133.13	0.1600	36.000	0.0120	0.6000	0.6000	0.00
162 Pipe - (260)	115.26	3133.13	3132.95	0.1600	36.000	0.0120	0.6000	0.6000	0.00
163 Pipe - (261)	31.20	3132.95	3132.90	0.1600	36.000	0.0120	0.6000	0.6000	0.00
164 Pipe - (262)	47.62	3132.90	3132.79	0.2200	36.000	0.0120	0.6000	0.6000	0.00

# Pipe Input

SN Element ID	Length (ft)	Inlet Invert Elevation (ft)	Outlet Invert Elevation (ft)	Average Slope (%)	Pipe Diameter or Height (in)	Manning's Roughness	Entrance Losses	Exit/Bend Losses	Initial Flow (cfs)
165 Pipe - (263)	135.47	3132.79	3132.58	0.1600	36.000	0.0120	0.6000	0.6000	0.00
166 Pipe - (264)	143.14	3132.58	3132.32	0.1800	36.000	0.0120	0.6000	0.6000	0.00
167 Pipe - (265)	13.67	3132.32	3132.30	0.1800	36.000	0.0120	0.6000	0.6000	0.00
168 Pipe - (267)	194.18	3132.30	3131.95	0.1800	36.000	0.0120	0.6000	0.6000	0.00
169 Pipe - (268)	51.80	3131.95	3131.86	0.1800	36.000	0.0120	0.6000	0.6000	0.00
170 Pipe - (269)	51.03	3131.86	3131.77	0.1800	36.000	0.0120	0.6000	0.6000	0.00
171 Pipe - (270)	44.17	3131.77	3131.69	0.1800	36.000	0.0120	0.6000	0.6000	0.00
172 Pipe - (271)	9.73	3131.69	3131.67	0.1800	36.000	0.0120	0.6000	0.6000	0.00
173 Pipe - (272)	56.32	3131.67	3131.57	0.1800	36.000	0.0120	0.6000	0.6000	0.00
174 Pipe - (273)	148.27	3131.57	3131.31	0.1800	36.000	0.0120	0.6000	0.6000	0.00
175 Pipe - (274)	15.52	3131.31	3131.28	0.1800	36.000	0.0120	0.6000	0.6000	0.00
176 Pipe - (275)	72.68	3131.28	3131.15	0.1800	36.000	0.0120	0.6000	0.6000	0.00
177 Pipe - (276)	80.44	3131.15	3131.01	0.1800	36.000	0.0120	0.6000	0.6000	0.00
178 Pipe - (277)	116.90	3131.01	3130.80	0.1800	36.000	0.0120	0.6000	0.6000	0.00
179 Pipe - (277) (1)	99.10	3130.80	3130.62	0.1800	36.000	0.0120	0.6000	0.6000	0.00
180 Pipe - (278)	116.57	3130.62	3130.41	0.1800	36.000	0.0120	0.6000	0.6000	0.00
181 Pipe - (279)	139.23	3130.41	3130.16	0.1800	36.000	0.0120	0.6000	0.6000	0.00
182 Pipe - (280)	120.79	3130.16	3129.95	0.1800	36.000	0.0120	0.6000	0.6000	0.00
183 Pipe - (281)	167.51	3129.95	3129.65	0.1800	36.000	0.0120	0.6000	0.6000	0.00
184 Pipe - (282)	161.28	3129.65	3129.36	0.1800	36.000	0.0120	0.6000	0.6000	0.00
185 Pipe - (283)	69.39	3129.36	3129.24	0.1800	36.000	0.0120	0.6000	0.6000	0.00
186 Pipe - (284)	131.42	3129.24	3129.01	0.1800	36.000	0.0120	0.6000	0.6000	0.00
187 Pipe - (285)	156.43	3129.01	3128.73	0.1800	36.000	0.0120	0.6000	0.6000	0.00
188 Pipe - (286)	164.53	3128.73	3128.43	0.1800	36.000	0.0120	0.6000	0.6000	0.00
189 Pipe - (287)	71.45	3128.43	3128.31	0.1800	36.000	0.0120	0.6000	0.6000	0.00
190 Pipe - (446)	107.05	3136.02	3135.85	0.1600	36.000	0.0120	0.6000	0.6000	0.00
191 Pipe - (446) (1)	133.45	3135.85	3135.63	0.1600	36.000	0.0120	0.6000	0.6000	0.00
192 Pipe - (79)	20.64	3160.08	3160.05	0.1500	36.000	0.0120	0.6000	0.6000	0.00
193 Pipe - (80)	110.08	3160.05	3159.91	0.1300	36.000	0.0120	0.6000	0.6000	0.00
194 Pipe - (81)	153.56	3159.91	3159.71	0.1300	36.000	0.0120	0.6000	0.6000	0.00
195 Pipe - (82)	82.77	3159.71	3159.60	0.1300	36.000	0.0120	0.6000	0.6000	0.00
196 Pipe - (83)	70.71	3159.60	3159.51	0.1300	36.000	0.0120	0.6000	0.6000	0.00
197 Pipe - (84)	21.39	3159.51	3159.48	0.1400	36.000	0.0120	0.6000	0.6000	0.00
198 Pipe - (85)	81.01	3159.48	3159.37	0.1400	36.000	0.0120	0.6000	0.6000	0.00
199 Pipe - (86)	22.84	3159.37	3159.34	0.1300	36.000	0.0120	0.6000	0.6000	0.00
200 Pipe - (87)	19.85	3159.34	3159.31	0.1500	36.000	0.0120	0.6000	0.6000	0.00
201 Pipe - (88)	41.17	3159.31	3159.26	0.1200	36.000	0.0120	0.6000	0.6000	0.00
202 Pipe - (89)	63.93	3159.26	3159.18	0.1300	36.000	0.0120	0.6000	0.6000	0.00
203 Pipe - (90)	39.13	3159.18	3159.13	0.1300	36.000	0.0120	0.6000	0.6000	0.00
204 Pipe - (91)	31.71	3159.13	3159.09	0.1300	36.000	0.0120	0.6000	0.6000	0.00
205 Pipe - (92)	29.66	3159.09	3159.05	0.1300	36.000	0.0120	0.6000	0.6000	0.00
206 Pipe - (93)-ExCMPtoHDPE	20.02	3159.05	3159.02	0.1500	36.000	0.0120	0.6000	0.6000	0.00
207 Pipe - (94)	85.59	3159.02	3158.92	0.1200	36.000	0.0120	0.6000	0.6000	0.00
208 Pipe - (95)	49.62	3158.92	3158.86	0.1200	36.000	0.0120	0.6000	0.6000	0.00
209 Pipe - (96)	41.00	3158.86	3158.81	0.1200	36.000	0.0120	0.6000	0.6000	0.00
210 Pipe - (97)	35.96	3158.81	3158.77	0.1300	36.000	0.0120	0.6000	0.6000	0.00
211 Pipe - (98)	70.99	3158.77	3158.68	0.1200	36.000	0.0120	0.6000	0.6000	0.00
212 Pipe - (99)	194.16	3158.68	3158.45	0.1200	36.000	0.0120	0.6000	0.6000	0.00

# Pipe Results

SN Element ID	Peak Flow	Design Flow Capacity	Peak Flow / Design Flow Ratio	Peak Flow Velocity	Travel Time	Peak Flow Depth	Peak Flow Depth / Total Depth Ratio	Froude Number	Reported Condition
	(cfs)	(cfs)		(ft/sec)	(min)	(ft)			
1 Pipe - (100)	24.00	25.55	0.94	4.11	0.39	2.31	0.77		Calculated
2 Pipe - (100)-WoodtoHdpe	24.00	24.56	0.98	3.96	0.40	2.40	0.80		Calculated
3 Pipe - (101)	24.00	27.07	0.89	4.32	0.14	2.20	0.73		Calculated
4 Pipe - (102)	24.00	29.46	0.81	4.64	0.06	2.06	0.69		Calculated
5 Pipe - (103)	24.00	26.40	0.91	4.23	0.15	2.25	0.75		Calculated
6 Pipe - (104)	24.00	24.55	0.98	3.96	0.15	2.40	0.80		Calculated
7 Pipe - (104)-WoodtoHdpe	24.00	25.64	0.94	4.12	0.32	2.30	0.77		Calculated
8 Pipe - (105)	24.00	25.65	0.94	4.12	0.19	2.30	0.77		Calculated
9 Pipe - (105)-WoodtoHdpe	24.00	25.55	0.94	4.11	0.06	2.31	0.77		Calculated
10 Pipe - (106)	24.00	26.06	0.92	4.18	0.09	2.27	0.76		Calculated
11 Pipe - (107)	24.00	25.03	0.96	4.03	0.17	2.36	0.79		Calculated
12 Pipe - (108)	24.00	26.38	0.91	4.23	0.06	2.25	0.75		Calculated
13 Pipe - (109)	24.00	25.48	0.94	4.10	0.13	2.32	0.77		Calculated
14 Pipe - (109)-WoodtoHdpe	24.00	25.31	0.95	4.07	0.33	2.33	0.78		Calculated
15 Pipe - (110)-EXCMP	24.00	52.47	0.46	4.08	0.72	1.90	0.47		Calculated
16 Pipe - (110)-WoodtoHdpe	24.00	36.64	0.65	5.52	0.39	1.77	0.59		Calculated
17 Pipe - (111)	24.00	30.58	0.78	4.79	0.10	2.00	0.67		Calculated
18 Pipe - (112)	24.00	32.71	0.73	5.06	0.08	1.91	0.64		Calculated
19 Pipe - (113)	24.00	26.24	0.91	4.21	0.15	2.26	0.75		Calculated
20 Pipe - (114)	24.00	24.70	0.97	3.98	0.50	2.39	0.80		Calculated
21 Pipe - (114)-WoodtoHdpe	24.00	50.27	0.48	7.03	0.12	1.46	0.49		Calculated
22 Pipe - (115)	24.00	36.45	0.66	5.50	0.25	1.78	0.59		Calculated
23 Pipe - (116)	24.00	36.73	0.65	5.53	0.10	1.77	0.59		Calculated
24 Pipe - (117)	24.00	36.69	0.65	5.53	0.13	1.77	0.59		Calculated
25 Pipe - (118)	24.00	36.70	0.65	5.53	0.25	1.77	0.59		Calculated
26 Pipe - (119)	24.00	36.71	0.65	5.53	0.63	1.77	0.59		Calculated
27 Pipe - (120)	24.00	36.72	0.65	5.53	0.76	1.77	0.59		Calculated
28 Pipe - (121)	24.00	36.72	0.65	5.53	0.42	1.77	0.59		Calculated
29 Pipe - (122)	24.00	36.70	0.65	5.53	0.17	1.77	0.59		Calculated
30 Pipe - (123)	24.00	36.74	0.65	5.54	0.08	1.77	0.59		Calculated
31 Pipe - (124)	24.00	36.68	0.65	5.53	0.09	1.77	0.59		Calculated
32 Pipe - (125)	24.00	36.56	0.66	5.51	0.03	1.77	0.59		Calculated
33 Pipe - (126)	24.00	36.76	0.65	5.54	0.23	1.77	0.59		Calculated
34 Pipe - (127)	24.00	36.68	0.65	5.53	0.07	1.77	0.59		Calculated
35 Pipe - (128)	24.00	36.71	0.65	5.53	0.31	1.77	0.59		Calculated
36 Pipe - (129)	24.00	36.67	0.65	5.53	0.20	1.77	0.59		Calculated
37 Pipe - (130)	24.00	27.90	0.86	4.44	0.08	2.15	0.72		Calculated
38 Pipe - (131)	24.00	28.09	0.85	4.46	0.50	2.13	0.71		Calculated
39 Pipe - (132)	24.00	30.23	0.79	4.75	0.28	2.02	0.67		Calculated
40 Pipe - (133)	24.00	25.03	0.96	4.03	0.29	2.36	0.79		Calculated
41 Pipe - (134)	24.00	28.08	0.85	4.46	0.19	2.13	0.71		Calculated
42 Pipe - (135)	24.00	28.01	0.86	4.45	0.60	2.14	0.71		Calculated
43 Pipe - (136)	24.00	28.14	0.85	4.47	0.15	2.13	0.71		Calculated
44 Pipe - (137)	24.00	28.00	0.86	4.45	0.25	2.14	0.71		Calculated
45 Pipe - (138)	24.00	28.01	0.86	4.45	0.19	2.14	0.71		Calculated
46 Pipe - (139)	24.00	28.12	0.85	4.47	0.35	2.13	0.71		Calculated
47 Pipe - (140)	24.00	28.00	0.86	4.45	0.66	2.14	0.71		Calculated
48 Pipe - (141)	24.00	28.00	0.86	4.45	0.23	2.14	0.71		Calculated
49 Pipe - (142)	24.00	28.51	0.84	4.52	0.15	2.11	0.70		Calculated
50 Pipe - (143)	24.00	27.30	0.88	4.35	0.11	2.18	0.73		Calculated
51 Pipe - (143)-ExCMPtoHDPE	24.00	30.37	0.79	4.76	0.28	2.01	0.67		Calculated
52 Pipe - (144)	24.00	27.94	0.86	4.44	0.03	2.14	0.71		Calculated
53 Pipe - (145)	24.00	28.85	0.83	4.56	0.02	2.09	0.70		Calculated
54 Pipe - (146)	24.00	29.15	0.82	4.60	0.76	2.07	0.69		Calculated
55 Pipe - (147)	24.00	29.28	0.82	4.62	0.25	2.07	0.69		Calculated
56 Pipe - (148)	24.00	29.25	0.82	4.62	0.36	2.07	0.69		Calculated
57 Pipe - (150)	24.00	29.26	0.82	4.62	0.15	2.07	0.69		Calculated
58 Pipe - (151)	24.00	29.29	0.82	4.62	0.61	2.07	0.69		Calculated
59 Pipe - (152)	24.00	29.29	0.82	4.62	0.52	2.07	0.69		Calculated
60 Pipe - (153)	24.00	29.27	0.82	4.62	0.30	2.07	0.69		Calculated
61 Pipe - (154)	24.00	29.25	0.82	4.62	0.05	2.07	0.69		Calculated
62 Pipe - (155)	24.00	29.29	0.82	4.62	0.12	2.07	0.69		Calculated
63 Pipe - (156)	24.00	29.28	0.82	4.62	0.29	2.07	0.69		Calculated
64 Pipe - (157)	24.00	29.19	0.82	4.61	0.02	2.07	0.69		Calculated
65 Pipe - (158)-ExCMPtoHDPE	24.00	30.89	0.78	4.83	0.15	1.99	0.66		Calculated
66 Pipe - (159)	24.00	30.87	0.78	4.83	0.29	1.99	0.66		Calculated
67 Pipe - (160)	24.00	30.88	0.78	4.83	0.15	1.99	0.66		Calculated
68 Pipe - (161)	24.00	30.87	0.78	4.83	0.16	1.99	0.66		Calculated
69 Pipe - (162)	24.00	30.88	0.78	4.83	0.35	1.99	0.66		Calculated
70 Pipe - (163)	24.00	30.88	0.78	4.83	0.62	1.99	0.66		Calculated
71 Pipe - (164)	24.00	30.88	0.78	4.83	0.52	1.99	0.66		Calculated
72 Pipe - (165)	24.00	30.88	0.78	4.83	0.33	1.99	0.66		Calculated
73 Pipe - (166)	24.00	30.88	0.78	4.83	0.70	1.99	0.66		Calculated
74 Pipe - (167)	24.00	30.88	0.78	4.83	0.25	1.99	0.66		Calculated
75 Pipe - (168)	24.00	30.88	0.78	4.83	1.30	1.99	0.66		Calculated
76 Pipe - (169)	24.00	30.83	0.78	4.82	0.13	1.99	0.66		Calculated
77 Pipe - (170)	24.00	30.93	0.78	4.83	0.12	1.99	0.66		Calculated
78 Pipe - (171)	24.00	30.89	0.78	4.83	0.20	1.99	0.66		Calculated
79 Pipe - (172)	24.00	30.87	0.78	4.83	0.38	1.99	0.66		Calculated
80 Pipe - (173)	24.00	30.88	0.78	4.83	0.37	1.99	0.66		Calculated
81 Pipe - (174)	24.00	30.89	0.78	4.83	0.48	1.99	0.66		Calculated



# Pipe Results

SN Element ID	Peak Flow	Design Flow Capacity	Peak Flow / Design Flow Ratio	Peak Flow Velocity	Travel Time	Peak Flow Depth	Peak Flow Depth / Total Depth Ratio	Froude Number	Reported Condition
	(cfs)	(cfs)		(ft/sec)	(min)	(ft)			
82 Pipe - (175)	24.00	30.87	0.78	4.83	0.45	1.99	0.66		Calculated
83 Pipe - (176)	24.00	30.85	0.78	4.82	0.05	1.99	0.66		Calculated
84 Pipe - (177)	24.00	30.90	0.78	4.83	0.10	1.99	0.66		Calculated
85 Pipe - (178)	24.00	30.88	0.78	4.83	0.23	1.99	0.66		Calculated
86 Pipe - (179)	24.00	30.88	0.78	4.83	0.31	1.99	0.66		Calculated
87 Pipe - (180)	24.00	30.88	0.78	4.83	0.34	1.99	0.66		Calculated
88 Pipe - (181)	24.00	30.84	0.78	4.82	0.21	1.99	0.66		Calculated
89 Pipe - (182)	24.00	31.24	0.77	4.87	0.02	1.97	0.66		Calculated
90 Pipe - (183)	24.00	30.88	0.78	4.83	0.28	1.99	0.66		Calculated
91 Pipe - (184)	24.00	30.87	0.78	4.83	0.13	1.99	0.66		Calculated
92 Pipe - (185)	24.00	30.88	0.78	4.83	0.59	1.99	0.66		Calculated
93 Pipe - (186)	24.00	30.87	0.78	4.83	0.18	1.99	0.66		Calculated
94 Pipe - (189)	24.00	30.90	0.78	4.83	0.13	1.99	0.66		Calculated
95 Pipe - (190)	24.00	30.87	0.78	4.83	0.44	1.99	0.66		Calculated
96 Pipe - (191)	24.00	30.91	0.78	4.83	0.07	1.99	0.66		Calculated
97 Pipe - (192)	24.00	30.87	0.78	4.83	0.20	1.99	0.66		Calculated
98 Pipe - (193)	24.00	30.89	0.78	4.83	0.18	1.99	0.66		Calculated
99 Pipe - (194)	24.00	30.88	0.78	4.83	0.23	1.99	0.66		Calculated
100 Pipe - (195)	24.00	30.88	0.78	4.83	0.26	1.99	0.66		Calculated
101 Pipe - (196)	24.00	30.87	0.78	4.83	0.17	1.99	0.66		Calculated
102 Pipe - (197)	24.00	30.89	0.78	4.83	0.20	1.99	0.66		Calculated
103 Pipe - (198)	24.00	30.88	0.78	4.83	0.22	1.99	0.66		Calculated
104 Pipe - (199)	24.00	30.88	0.78	4.83	0.64	1.99	0.66		Calculated
105 Pipe - (200)	24.00	30.88	0.78	4.83	0.51	1.99	0.66		Calculated
106 Pipe - (201)	24.00	30.88	0.78	4.83	0.99	1.99	0.66		Calculated
107 Pipe - (202)	24.00	30.88	0.78	4.83	0.13	1.99	0.66		Calculated
108 Pipe - (202)-WoodtoHdpe	24.00	33.15	0.72	5.11	0.15	1.89	0.63		Calculated
109 Pipe - (203)	24.00	34.17	0.70	5.23	0.14	1.85	0.62		Calculated
110 Pipe - (204)	24.00	34.17	0.70	5.23	0.51	1.85	0.62		Calculated
111 Pipe - (205)	24.00	34.18	0.70	5.23	0.83	1.85	0.62		Calculated
112 Pipe - (206)	24.00	34.17	0.70	5.23	0.55	1.85	0.62		Calculated
113 Pipe - (207)	24.00	34.17	0.70	5.23	0.68	1.85	0.62		Calculated
114 Pipe - (208)	24.00	34.16	0.70	5.23	0.30	1.86	0.62		Calculated
115 Pipe - (209)	24.00	34.18	0.70	5.23	0.21	1.85	0.62		Calculated
116 Pipe - (210)	24.00	34.16	0.70	5.23	0.17	1.85	0.62		Calculated
117 Pipe - (211)	24.00	34.19	0.70	5.23	0.15	1.85	0.62		Calculated
118 Pipe - (213)	24.00	34.10	0.70	5.22	0.03	1.86	0.62		Calculated
119 Pipe - (214)	24.00	34.17	0.70	5.23	0.19	1.85	0.62		Calculated
120 Pipe - (215)	24.00	34.22	0.70	5.24	0.07	1.85	0.62		Calculated
121 Pipe - (216)	24.00	34.12	0.70	5.23	0.03	1.86	0.62		Calculated
122 Pipe - (217)	24.00	34.14	0.70	5.23	0.13	1.86	0.62		Calculated
123 Pipe - (218)	24.00	34.13	0.70	5.23	0.03	1.86	0.62		Calculated
124 Pipe - (219)	24.00	34.22	0.70	5.24	0.03	1.85	0.62		Calculated
125 Pipe - (220)	24.00	34.17	0.70	5.23	0.29	1.85	0.62		Calculated
126 Pipe - (221)	24.00	34.17	0.70	5.23	0.41	1.85	0.62		Calculated
127 Pipe - (222)	24.00	34.18	0.70	5.23	0.21	1.85	0.62		Calculated
128 Pipe - (223)	24.00	34.17	0.70	5.23	0.12	1.85	0.62		Calculated
129 Pipe - (224)	24.00	34.17	0.70	5.23	0.30	1.85	0.62		Calculated
130 Pipe - (225)	24.00	34.17	0.70	5.23	0.21	1.85	0.62		Calculated
131 Pipe - (226)	24.00	34.17	0.70	5.23	0.24	1.85	0.62		Calculated
132 Pipe - (227)	24.00	34.17	0.70	5.23	0.07	1.85	0.62		Calculated
133 Pipe - (228)	24.00	34.17	0.70	5.23	0.14	1.85	0.62		Calculated
134 Pipe - (229)	24.00	52.74	0.46	7.28	0.09	1.42	0.47		Calculated
135 Pipe - (230)	24.00	30.90	0.78	4.83	0.82	1.99	0.66		Calculated
136 Pipe - (231)	24.00	28.77	0.83	4.55	0.31	2.10	0.70		Calculated
137 Pipe - (232)	24.00	29.17	0.82	4.61	0.33	2.07	0.69		Calculated
138 Pipe - (233)	24.00	29.11	0.82	4.60	0.43	2.08	0.69		Calculated
139 Pipe - (234)	24.00	29.11	0.82	4.60	0.08	2.08	0.69		Calculated
140 Pipe - (235)	24.00	28.99	0.83	4.58	0.10	2.08	0.69		Calculated
141 Pipe - (236)	24.00	29.35	0.82	4.63	0.08	2.06	0.69		Calculated
142 Pipe - (237)	24.00	29.09	0.82	4.60	0.21	2.08	0.69		Calculated
143 Pipe - (238)	24.00	29.08	0.83	4.59	0.11	2.08	0.69		Calculated
144 Pipe - (239)	24.00	29.14	0.82	4.60	0.15	2.08	0.69		Calculated
145 Pipe - (240)	24.00	29.16	0.82	4.61	0.20	2.07	0.69		Calculated
146 Pipe - (241)	24.00	29.10	0.82	4.60	0.61	2.08	0.69		Calculated
147 Pipe - (242)	24.00	29.12	0.82	4.60	0.42	2.08	0.69		Calculated
148 Pipe - (243)	24.00	29.14	0.82	4.60	0.18	2.07	0.69		Calculated
149 Pipe - (244)	24.00	29.07	0.83	4.59	0.10	2.08	0.69		Calculated
150 Pipe - (245)	24.00	29.13	0.82	4.60	0.28	2.08	0.69		Calculated
151 Pipe - (246)	24.00	29.11	0.82	4.60	0.34	2.08	0.69		Calculated
152 Pipe - (248)	24.00	29.12	0.82	4.60	0.89	2.08	0.69		Calculated
153 Pipe - (251)	24.00	29.14	0.82	4.60	0.30	2.08	0.69		Calculated
154 Pipe - (252)	24.00	29.12	0.82	4.60	1.41	2.08	0.69		Calculated
155 Pipe - (253)	24.00	29.12	0.82	4.60	0.65	2.08	0.69		Calculated
156 Pipe - (254)	24.00	29.16	0.82	4.60	0.05	2.07	0.69		Calculated
157 Pipe - (255)	24.00	29.12	0.82	4.60	0.27	2.08	0.69		Calculated
158 Pipe - (256)	24.00	29.13	0.82	4.60	0.41	2.08	0.69		Calculated
159 Pipe - (257)	24.00	29.11	0.82	4.60	0.72	2.08	0.69		Calculated
160 Pipe - (258)	24.00	29.11	0.82	4.60	0.28	2.08	0.69		Calculated
161 Pipe - (259)	24.00	29.12	0.82	4.60	0.59	2.08	0.69		Calculated
162 Pipe - (260)	24.00	29.12	0.82	4.60	0.42	2.08	0.69		Calculated

# Pipe Results

SN Element ID	Peak Flow	Design Flow Capacity	Peak Flow/ Design Flow Ratio	Peak Flow Velocity	Travel Time	Peak Flow Depth	Peak Flow Depth/ Total Depth Ratio	Froude Number	Reported Condition
	(cfs)	(cfs)		(ft/sec)	(min)	(ft)			
163 Pipe - (261)	24.00	29.11	0.82	4.60	0.11	2.08	0.69		Calculated
164 Pipe - (262)	24.00	33.62	0.71	5.17	0.15	1.87	0.62		Calculated
165 Pipe - (263)	24.00	28.95	0.83	4.58	0.49	2.08	0.69		Calculated
166 Pipe - (264)	24.00	30.50	0.79	4.78	0.50	2.01	0.67		Calculated
167 Pipe - (265)	24.00	30.47	0.79	4.78	0.05	2.01	0.67		Calculated
168 Pipe - (267)	24.00	30.52	0.79	4.78	0.68	2.00	0.67		Calculated
169 Pipe - (268)	24.00	30.49	0.79	4.78	0.18	2.01	0.67		Calculated
170 Pipe - (269)	24.00	30.52	0.79	4.78	0.18	2.00	0.67		Calculated
171 Pipe - (270)	24.00	30.53	0.79	4.78	0.15	2.00	0.67		Calculated
172 Pipe - (271)	24.00	30.25	0.79	4.75	0.03	2.02	0.67		Calculated
173 Pipe - (272)	24.00	30.53	0.79	4.78	0.20	2.00	0.67		Calculated
174 Pipe - (273)	24.00	30.49	0.79	4.78	0.52	2.01	0.67		Calculated
175 Pipe - (274)	24.00	30.60	0.78	4.79	0.05	2.00	0.67		Calculated
176 Pipe - (275)	24.00	30.50	0.79	4.78	0.25	2.01	0.67		Calculated
177 Pipe - (276)	24.00	30.49	0.79	4.78	0.28	2.01	0.67		Calculated
178 Pipe - (277)	24.00	30.51	0.79	4.78	0.41	2.01	0.67		Calculated
179 Pipe - (277) (1)	24.00	30.51	0.79	4.78	0.35	2.01	0.67		Calculated
180 Pipe - (278)	24.00	30.49	0.79	4.78	0.41	2.01	0.67		Calculated
181 Pipe - (279)	24.00	30.51	0.79	4.78	0.49	2.01	0.67		Calculated
182 Pipe - (280)	24.00	30.49	0.79	4.78	0.42	2.01	0.67		Calculated
183 Pipe - (281)	24.00	30.52	0.79	4.78	0.58	2.00	0.67		Calculated
184 Pipe - (282)	24.00	30.50	0.79	4.78	0.56	2.01	0.67		Calculated
185 Pipe - (283)	24.00	30.48	0.79	4.78	0.24	2.01	0.67		Calculated
186 Pipe - (284)	24.00	30.51	0.79	4.78	0.46	2.00	0.67		Calculated
187 Pipe - (285)	24.00	30.49	0.79	4.78	0.55	2.01	0.67		Calculated
188 Pipe - (286)	24.00	30.50	0.79	4.78	0.57	2.01	0.67		Calculated
189 Pipe - (287)	24.00	30.52	0.79	4.78	0.25	2.00	0.67		Calculated
190 Pipe - (446)	24.00	29.13	0.82	4.60	0.39	2.08	0.69		Calculated
191 Pipe - (446) (1)	24.00	29.12	0.82	4.60	0.48	2.08	0.69		Calculated
192 Pipe - (79)	24.00	27.55	0.87	4.39	0.08	2.17	0.72		Calculated
193 Pipe - (80)	24.00	25.77	0.93	4.14	0.44	2.29	0.76		Calculated
194 Pipe - (81)	24.00	26.08	0.92	4.18	0.61	2.27	0.76		Calculated
195 Pipe - (82)	24.00	26.34	0.91	4.22	0.33	2.25	0.75		Calculated
196 Pipe - (83)	24.00	25.78	0.93	4.14	0.28	2.29	0.76		Calculated
197 Pipe - (84)	24.00	27.06	0.89	4.32	0.08	2.20	0.73		Calculated
198 Pipe - (85)	24.00	26.63	0.90	4.26	0.32	2.23	0.74		Calculated
199 Pipe - (86)	24.00	26.18	0.92	4.20	0.09	2.26	0.75		Calculated
200 Pipe - (87)	24.00	28.09	0.85	4.46	0.07	2.13	0.71		Calculated
201 Pipe - (88)	24.00	25.18	0.95	4.05	0.17	2.34	0.78		Calculated
202 Pipe - (89)	24.00	25.56	0.94	4.11	0.26	2.31	0.77		Calculated
203 Pipe - (90)	24.00	25.83	0.93	4.15	0.16	2.29	0.76		Calculated
204 Pipe - (91)	24.00	25.66	0.94	4.12	0.13	2.30	0.77		Calculated
205 Pipe - (92)	24.00	26.54	0.90	4.25	0.12	2.24	0.75		Calculated
206 Pipe - (93)-ExCMPtoHDPE	24.00	27.97	0.86	4.45	0.07	2.14	0.71		Calculated
207 Pipe - (94)	24.00	24.70	0.97	3.98	0.36	2.39	0.80		Calculated
208 Pipe - (95)	24.00	25.13	0.96	4.04	0.20	2.35	0.78		Calculated
209 Pipe - (96)	24.00	25.23	0.95	4.06	0.17	2.34	0.78		Calculated
210 Pipe - (97)	24.00	25.56	0.94	4.11	0.15	2.31	0.77		Calculated
211 Pipe - (98)	24.00	25.00	0.96	4.03	0.29	2.36	0.79		Calculated
212 Pipe - (99)	24.00	24.87	0.97	4.01	0.81	2.37	0.79		Calculated

## Project Description

File Name ..... Section3.SPF

## Number of Elements

	Qty
Rain Gages .....	0
Subbasins.....	0
Nodes.....	170
<i>Junctions</i> .....	169
<i>Outfalls</i> .....	1
<i>Flow Diversions</i> .....	0
<i>Inlets</i> .....	0
<i>Storage Nodes</i> .....	0
Links.....	169
<i>Channels</i> .....	0
<i>Pipes</i> .....	169
<i>Pumps</i> .....	0
<i>Orifices</i> .....	0
<i>Weirs</i> .....	0
<i>Outlets</i> .....	0
Pollutants .....	0
Land Uses .....	0

## Node Summary

SN	Element ID	Element Type	Invert Elevation	Ground/Rim (Max) Elevation	Initial Water Elevation	Surcharge Elevation	Peak Inflow	Max HGL Elevation Attained
			(ft)	(ft)	(ft)	(ft)	(cfs)	(ft)
1	Structure - (298)-WoodleafSiphonOutlet	Junction	3116.56	3119.82	3116.56	3119.82	24.00	3118.87
2	Structure - (299)	Junction	3116.48	3119.75	3116.49	3119.75	24.00	3118.79
3	Structure - (300)	Junction	3116.45	3119.45	3116.45	3119.46	24.00	3118.62
4	Structure - (301)	Junction	3116.43	3119.43	3116.43	3119.44	24.00	3118.51
5	Structure - (302)	Junction	3116.39	3119.39	3116.41	3119.65	24.00	3118.68
6	Structure - (303)	Junction	3116.34	3119.34	3116.34	3119.35	24.00	3118.63
7	Structure - (304)	Junction	3116.27	3119.52	3116.27	3119.52	24.00	3118.51
8	Structure - (305)	Junction	3116.19	3119.44	3116.19	3119.44	24.00	3118.35
9	Structure - (306)	Junction	3116.12	3119.38	3116.12	3119.38	24.00	3118.32
10	Structure - (307)	Junction	3116.00	3119.26	3116.00	3119.26	24.00	3118.20
11	Structure - (308)	Junction	3115.90	3119.16	3115.90	3119.16	24.00	3118.09
12	Structure - (309)	Junction	3115.72	3118.97	3115.72	3118.97	24.00	3117.91
13	Structure - (310)AP	Junction	3115.50	3119.43	3115.50	3119.43	24.00	3117.67
14	Structure - (311)	Junction	3115.10	3118.36	3115.10	3118.36	24.00	3117.30
15	Structure - (312)	Junction	3114.95	3118.20	3114.95	3118.20	24.00	3117.15
16	Structure - (313)	Junction	3114.80	3118.06	3114.80	3118.06	24.00	3117.14
17	Structure - (314)	Junction	3114.74	3117.99	3114.74	3117.99	24.00	3117.08
18	Structure - (315)Turn Out - Box-4	Junction	3114.71	3119.31	3114.71	3119.31	24.00	3116.83
19	Structure - (316)	Junction	3114.67	3117.92	3114.67	3117.92	24.00	3116.80
20	Structure - (317)	Junction	3114.53	3117.79	3114.53	3117.79	24.00	3116.75
21	Structure - (318)	Junction	3114.47	3117.72	3114.47	3117.72	24.00	3116.69
22	Structure - (319)	Junction	3114.32	3117.57	3114.32	3117.57	24.00	3116.50
23	Structure - (320)	Junction	3114.22	3117.48	3114.22	3117.48	24.00	3116.41
24	Structure - (320)AP	Junction	3114.07	3118.00	3114.07	3118.00	24.00	3116.26
25	Structure - (321)	Junction	3113.97	3117.22	3113.97	3117.22	24.00	3116.17
26	Structure - (322)	Junction	3113.92	3117.17	3113.92	3117.17	24.00	3116.12
27	Structure - (323)	Junction	3113.88	3117.13	3113.88	3117.13	24.00	3116.08
28	Structure - (324)	Junction	3113.67	3116.93	3113.67	3116.93	24.00	3116.06
29	Structure - (325)	Junction	3113.65	3116.90	3113.65	3116.90	24.00	3116.04
30	Structure - (326)	Junction	3113.58	3116.58	3113.58	3116.58	24.00	3115.80
31	Structure - (327)	Junction	3113.54	3116.79	3113.54	3116.79	24.00	3115.68
32	Structure - (328)	Junction	3113.46	3116.71	3113.46	3116.71	24.00	3115.67
33	Structure - (329)	Junction	3113.28	3116.53	3113.28	3116.53	24.00	3115.49
34	Structure - (330)	Junction	3113.26	3116.26	3113.26	3116.26	24.00	3115.46
35	Structure - (331)	Junction	3113.23	3116.47	3113.23	3116.47	24.00	3115.43
36	Structure - (333)	Junction	3113.21	3116.45	3113.21	3116.45	24.00	3115.47
37	Structure - (334)	Junction	3113.14	3116.14	3113.14	3116.14	24.00	3115.49
38	Structure - (335)	Junction	3113.00	3115.99	3113.00	3115.99	24.00	3115.40
39	Structure - (337)	Junction	3112.77	3115.77	3112.77	3115.77	24.00	3115.17
40	Structure - (338)	Junction	3112.72	3115.98	3112.72	3115.98	24.00	3115.04
41	Structure - (339)AP	Junction	3112.69	3116.29	3112.69	3116.29	24.00	3114.97
42	Structure - (340)	Junction	3112.60	3115.60	3112.60	3115.60	24.00	3114.88
43	Structure - (341)	Junction	3112.57	3115.83	3112.57	3115.83	24.00	3114.74
44	Structure - (342)	Junction	3112.41	3115.66	3112.41	3115.66	24.00	3114.60
45	Structure - (343)	Junction	3112.40	3115.66	3112.40	3115.66	24.00	3114.63
46	Structure - (345)	Junction	3112.28	3115.54	3112.28	3115.54	24.00	3114.51
47	Structure - (346)	Junction	3112.26	3115.52	3112.26	3115.52	24.00	3114.15
48	Structure - (347)	Junction	3112.15	3115.41	3112.15	3115.41	24.00	3114.04
49	Structure - (352)	Junction	3111.39	3114.65	3111.39	3114.65	24.00	3113.28
50	Structure - (353)	Junction	3111.34	3114.60	3111.34	3114.60	24.00	3113.23
51	Structure - (354)	Junction	3111.28	3114.53	3111.28	3114.53	24.00	3113.17
52	Structure - (355)	Junction	3111.23	3114.48	3111.23	3114.48	24.00	3113.12
53	Structure - (356)	Junction	3111.02	3114.27	3111.02	3114.27	24.00	3112.91
54	Structure - (357)AP	Junction	3110.66	3114.59	3110.66	3114.59	24.00	3112.90
55	Structure - (361)	Junction	3109.73	3112.98	3109.73	3112.98	24.00	3112.08
56	Structure - (362)	Junction	3109.71	3112.97	3109.71	3112.97	24.00	3111.75
57	Structure - (363)	Junction	3109.54	3112.79	3109.54	3112.79	24.00	3111.57
58	Structure - (364)	Junction	3109.47	3112.72	3109.47	3112.72	24.00	3111.50
59	Structure - (365)	Junction	3109.44	3112.70	3109.44	3112.70	24.00	3111.48
60	Structure - (366)	Junction	3109.38	3112.64	3109.38	3112.64	24.00	3111.42
61	Structure - (367)	Junction	3109.33	3112.59	3109.33	3112.59	24.00	3111.37
62	Structure - (368)	Junction	3109.31	3112.56	3109.31	3112.56	24.00	3111.43
63	Structure - (369)AP	Junction	3109.12	3113.05	3109.12	3113.05	24.00	3111.24
64	Structure - (370)	Junction	3108.96	3112.22	3108.96	3112.22	24.00	3110.99
65	Structure - (372)	Junction	3108.83	3112.09	3108.83	3112.09	24.00	3110.87
66	Structure - (373)	Junction	3108.64	3111.89	3108.64	3111.89	24.00	3110.67
67	Structure - (374)	Junction	3108.53	3111.79	3108.53	3111.79	24.00	3110.56
68	Structure - (375)	Junction	3108.24	3111.50	3108.24	3111.50	24.00	3110.07
69	Structure - (376)	Junction	3108.04	3111.29	3108.04	3111.29	24.00	3109.87
70	Structure - (377)	Junction	3107.84	3111.10	3107.84	3111.10	24.00	3109.67
71	Structure - (378)	Junction	3107.67	3110.93	3107.67	3110.93	24.00	3109.50
72	Structure - (379)	Junction	3107.61	3110.87	3107.61	3110.87	24.00	3109.44
73	Structure - (380)	Junction	3107.45	3110.71	3107.45	3110.71	24.00	3109.28
74	Structure - (381)	Junction	3107.29	3110.54	3107.29	3110.54	24.00	3109.12
75	Structure - (382)	Junction	3107.04	3110.30	3107.04	3110.30	24.00	3109.15
76	Structure - (382)AP	Junction	3107.00	3110.93	3107.00	3110.93	24.00	3109.12
77	Structure - (383)	Junction	3106.85	3110.11	3106.85	3110.11	24.00	3109.00
78	Structure - (384)	Junction	3106.57	3109.82	3106.57	3109.82	24.00	3108.72
79	Structure - (385)	Junction	3106.47	3109.72	3106.47	3109.72	24.00	3108.61
80	Structure - (386)	Junction	3106.30	3109.55	3106.30	3109.55	24.00	3108.44
81	Structure - (387)	Junction	3106.07	3109.32	3106.07	3109.32	24.00	3108.19

## Node Summary

SN	Element ID	Element Type	Invert Elevation	Ground/Rim (Max) Elevation	Initial Water Elevation	Surcharge Elevation	Peak Inflow	Max HGL Elevation Attained
			(ft)	(ft)	(ft)	(ft)	(cfs)	(ft)
82	Structure - (388)	Junction	3105.99	3109.25	3105.99	3109.25	24.00	3108.16
83	Structure - (389)	Junction	3105.88	3109.13	3105.88	3109.13	24.00	3108.05
84	Structure - (390)	Junction	3105.80	3109.05	3105.80	3109.05	24.00	3107.93
85	Structure - (391)	Junction	3105.59	3108.85	3105.59	3108.85	24.00	3107.71
86	Structure - (391)AP	Junction	3105.56	3109.52	3105.56	3109.52	24.00	3107.68
87	Structure - (392)	Junction	3105.36	3108.62	3105.36	3108.62	24.00	3107.55
88	Structure - (393)	Junction	3105.29	3108.54	3105.29	3108.54	24.00	3107.48
89	Structure - (394)	Junction	3105.26	3108.52	3105.26	3108.52	24.00	3107.41
90	Structure - (395)	Junction	3105.22	3108.48	3105.22	3108.48	24.00	3107.41
91	Structure - (396)	Junction	3105.15	3108.40	3105.15	3108.40	24.00	3107.34
92	Structure - (397)	Junction	3105.09	3108.09	3105.09	3108.09	24.00	3107.26
93	Structure - (398)	Junction	3105.07	3108.32	3105.07	3108.32	24.00	3107.23
94	Structure - (399)	Junction	3105.05	3108.30	3105.05	3108.30	24.00	3107.21
95	Structure - (400)	Junction	3104.97	3108.23	3104.97	3108.23	24.00	3107.10
96	Structure - (401)	Junction	3104.43	3107.69	3104.43	3107.69	24.00	3106.56
97	Structure - (401)AP	Junction	3104.04	3107.96	3104.04	3107.96	24.00	3106.17
98	Structure - (402)	Junction	3103.98	3107.24	3103.98	3107.24	24.00	3106.12
99	Structure - (403)	Junction	3103.93	3107.18	3103.93	3107.18	24.00	3105.74
100	Structure - (404)	Junction	3103.82	3107.08	3103.82	3107.08	24.00	3105.58
101	Structure - (405)	Junction	3103.17	3106.43	3103.17	3106.43	24.00	3104.96
102	Structure - (406)	Junction	3103.13	3106.39	3103.13	3106.39	24.00	3104.92
103	Structure - (407)	Junction	3103.04	3106.29	3103.04	3106.29	24.00	3104.81
104	Structure - (408)	Junction	3102.91	3106.16	3102.91	3106.16	24.00	3104.67
105	Structure - (409)	Junction	3102.72	3105.97	3102.72	3105.97	24.00	3104.48
106	Structure - (409)TO	Junction	3102.47	3107.23	3102.47	3107.23	24.00	3104.33
107	Structure - (410)	Junction	3102.42	3105.68	3102.42	3105.68	24.00	3104.35
108	Structure - (411)	Junction	3102.23	3105.49	3102.23	3105.49	24.00	3104.16
109	Structure - (412)	Junction	3102.17	3105.43	3102.17	3105.43	24.00	3104.08
110	Structure - (413)	Junction	3101.68	3104.93	3101.68	3104.93	24.00	3103.59
111	Structure - (414)	Junction	3101.47	3104.72	3101.47	3104.72	24.00	3103.38
112	Structure - (415)	Junction	3101.33	3104.59	3101.33	3104.59	24.00	3103.24
113	Structure - (416)	Junction	3101.04	3104.29	3101.04	3104.29	24.00	3102.95
114	Structure - (417)	Junction	3100.65	3103.91	3100.65	3103.91	24.00	3102.56
115	Structure - (418)	Junction	3100.32	3103.58	3100.32	3103.58	24.00	3102.23
116	Structure - (419)	Junction	3099.99	3103.25	3099.99	3103.25	24.00	3101.90
117	Structure - (420)	Junction	3099.84	3103.09	3099.84	3103.09	24.00	3101.75
118	Structure - (420)AP	Junction	3099.62	3103.55	3099.62	3103.55	24.00	3101.61
119	Structure - (421)	Junction	3099.48	3102.74	3099.48	3102.74	24.00	3101.46
120	Structure - (422)	Junction	3099.36	3102.62	3099.36	3102.62	24.00	3101.38
121	Structure - (423)	Junction	3099.27	3102.52	3099.27	3102.52	24.00	3101.29
122	Structure - (424)	Junction	3099.18	3102.44	3099.18	3102.44	24.00	3101.17
123	Structure - (425)	Junction	3098.75	3102.01	3098.75	3102.01	24.00	3100.74
124	Structure - (426)	Junction	3098.45	3101.70	3098.45	3101.70	24.00	3100.44
125	Structure - (427)	Junction	3098.42	3101.68	3098.42	3101.68	24.00	3100.41
126	Structure - (428)	Junction	3098.37	3101.62	3098.37	3101.62	24.00	3100.36
127	Structure - (429)	Junction	3098.34	3101.60	3098.34	3101.60	24.00	3100.33
128	Structure - (430)	Junction	3098.27	3101.52	3098.27	3101.52	24.00	3100.26
129	Structure - (431)	Junction	3098.12	3101.38	3098.12	3101.38	24.00	3100.17
130	Structure - (432)	Junction	3097.93	3101.19	3097.93	3101.19	24.00	3099.98
131	Structure - (433)	Junction	3097.90	3101.16	3097.90	3101.16	24.00	3099.84
132	Structure - (434)AP	Junction	3097.68	3102.20	3097.68	3102.20	24.00	3099.65
133	Structure - (435)	Junction	3097.51	3100.77	3097.51	3100.77	24.00	3099.51
134	Structure - (436)	Junction	3097.34	3100.60	3097.34	3100.60	24.00	3099.34
135	Structure - (437)	Junction	3097.27	3100.53	3097.27	3100.53	24.00	3099.26
136	Structure - (438)	Junction	3097.15	3100.41	3097.15	3100.41	24.00	3099.17
137	Structure - (439)	Junction	3097.01	3100.26	3097.01	3100.26	24.00	3099.03
138	Structure - (440)	Junction	3096.75	3100.00	3096.75	3100.00	24.00	3098.74
139	Structure - (441)	Junction	3096.55	3099.81	3096.55	3099.81	24.00	3098.52
140	Structure - (442)	Junction	3096.40	3099.66	3096.40	3099.66	24.00	3098.39
141	Structure - (443)	Junction	3096.30	3099.56	3096.30	3099.56	24.00	3098.33
142	Structure - (444)	Junction	3096.11	3099.11	3096.11	3099.11	24.00	3098.14
143	Structure - (445)	Junction	3095.97	3099.22	3095.97	3099.22	24.00	3097.96
144	Structure - (447)	Junction	3095.90	3099.16	3095.90	3099.16	24.00	3097.89
145	Structure - (447)AP	Junction	3095.78	3099.71	3095.78	3099.71	24.00	3097.68
146	Structure - (448)	Junction	3095.51	3098.77	3095.51	3098.77	24.00	3097.35
147	Structure - (449)	Junction	3095.25	3098.50	3095.25	3098.50	24.00	3097.09
148	Structure - (450)	Junction	3094.87	3098.12	3094.87	3098.12	24.00	3096.70
149	Structure - (451)	Junction	3094.82	3098.08	3094.82	3098.08	24.00	3096.68
150	Structure - (452)	Junction	3094.70	3097.96	3094.70	3097.96	24.00	3096.56
151	Structure - (453)	Junction	3094.65	3097.91	3094.65	3097.91	24.00	3096.51
152	Structure - (454)	Junction	3094.49	3097.74	3094.49	3097.74	24.00	3096.35
153	Structure - (455)	Junction	3094.07	3097.33	3094.07	3097.33	24.00	3095.93
154	Structure - (455)AP	Junction	3093.91	3097.84	3093.91	3097.84	24.00	3095.77
155	Structure - (456)	Junction	3093.34	3096.59	3093.34	3096.59	24.00	3095.30
156	Structure - (457)	Junction	3093.17	3096.43	3093.17	3096.43	24.00	3095.13
157	Structure - (458)	Junction	3092.81	3096.07	3092.81	3096.07	24.00	3094.66
158	Structure - (597)	Junction	3112.14	3115.40	3112.14	3115.40	24.00	3114.03
159	Structure - (598)	Junction	3112.00	3115.25	3112.00	3115.25	24.00	3113.89
160	Structure - (599)	Junction	3111.80	3115.05	3111.80	3115.05	24.00	3113.70
161	Structure - (600)	Junction	3111.80	3115.06	3111.80	3115.06	24.00	3113.71
162	Structure - (601)	Junction	3110.48	3113.74	3110.48	3113.74	24.00	3112.74

## Node Summary

SN Element ID	Element Type	Invert Elevation	Ground/Rim (Max) Elevation	Initial Water Elevation	Surcharge Elevation	Peak Inflow	Max HGL Elevation Attained
		(ft)	(ft)	(ft)	(ft)	(cfs)	(ft)
163 Structure - (602)	Junction	3110.34	3113.60	3110.34	3113.60	24.00	3112.60
164 Structure - (603)	Junction	3110.32	3113.58	3110.32	3113.58	24.00	3112.12
165 Structure - (604)	Junction	3110.22	3113.48	3110.22	3113.48	24.00	3111.96
166 Structure - (605)	Junction	3109.91	3113.17	3109.91	3113.17	24.00	3111.65
167 Structure - (606)	Junction	3109.86	3113.12	3109.86	3113.12	24.00	3111.64
168 Structure - (607)	Junction	3109.81	3113.07	3109.81	3113.07	24.00	3112.19
169 Structure - (608)	Junction	3109.80	3113.06	3109.80	3113.06	24.00	3112.18
170 Out-1Pipe - (CascadeFalls)	Outfall	3092.75				24.00	3094.60

# 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)	Design Flow Capacity (cfs)	Peak Flow Velocity (ft/sec)	Peak Flow Reported Depth (ft)	Condition
1	Pipe - (289)	Structure - (298)	WoodleafSiphonOutlet Structure - (299)	64.66	3116.56	3116.48	0.1200	36.000	0.0120	24.00	25.53	4.10	2.31	Calculated
2	Pipe - (290)	Structure - (299)	Structure - (300)	20.80	3116.48	3116.45	0.1400	36.000	0.0120	24.00	27.44	4.37	2.17	Calculated
3	Pipe - (291)	Structure - (300)	Structure - (301)	9.45	3116.45	3116.43	0.2100	36.000	0.0120	24.00	33.24	5.12	1.89	Calculated
4	Pipe - (292)	Structure - (301)	Structure - (302)	24.87	3116.43	3116.39	0.1600	36.000	0.0120	24.00	28.98	4.58	2.08	Calculated
5	Pipe - (293)	Structure - (302)	Structure - (303)	39.24	3116.39	3116.34	0.1300	36.000	0.0120	24.00	25.79	4.14	2.29	Calculated
6	Pipe - (294)	Structure - (303)	Structure - (304)	52.28	3116.34	3116.27	0.1300	36.000	0.0120	24.00	26.44	4.23	2.24	Calculated
7	Pipe - (295)	Structure - (304)	Structure - (305)	54.61	3116.27	3116.19	0.1500	36.000	0.0120	24.00	27.66	4.40	2.16	Calculated
8	Pipe - (296)	Structure - (305)	Structure - (306)	41.97	3116.19	3116.12	0.1700	36.000	0.0120	24.00	29.51	4.65	2.06	Calculated
9	Pipe - (297)	Structure - (306)	Structure - (307)	85.32	3116.12	3116.00	0.1400	36.000	0.0120	24.00	27.10	4.33	2.20	Calculated
10	Pipe - (298)	Structure - (307)	Structure - (308)	68.75	3116.00	3115.90	0.1500	36.000	0.0120	24.00	27.56	4.39	2.17	Calculated
11	Pipe - (299)	Structure - (308)	Structure - (309)	126.57	3115.90	3115.72	0.1400	36.000	0.0120	24.00	27.25	4.35	2.19	Calculated
12	Pipe - (300)	Structure - (309)	Structure - (310)AP	146.10	3115.72	3115.50	0.1500	36.000	0.0120	24.00	28.04	4.46	2.14	Calculated
13	Pipe - (301)	Structure - (310)AP	Structure - (311)	276.86	3115.50	3115.10	0.1400	36.000	0.0120	24.00	27.46	4.38	2.17	Calculated
14	Pipe - (302)	Structure - (311)	Structure - (312)	106.58	3115.10	3114.95	0.1400	36.000	0.0120	24.00	27.11	4.33	2.20	Calculated
15	Pipe - (303)	Structure - (312)	Structure - (313)	99.85	3114.95	3114.80	0.1500	36.000	0.0120	24.00	28.01	4.45	2.14	Calculated
16	Pipe - (304)	Structure - (313)	Structure - (314)	49.29	3114.80	3114.74	0.1200	36.000	0.0120	24.00	25.21	4.06	2.34	Calculated
17	Pipe - (305)	Structure - (314)	Structure - (315)Turn Out - Box-4	18.11	3114.74	3114.71	0.1700	36.000	0.0120	24.00	29.41	4.64	2.06	Calculated
18	Pipe - (306)	Structure - (315)Turn Out - Box-4	Structure - (316)	26.00	3114.71	3114.67	0.1500	36.000	0.0120	24.00	28.34	4.50	2.12	Calculated
19	Pipe - (307)	Structure - (316)	Structure - (317)	92.07	3114.67	3114.53	0.1500	36.000	0.0120	24.00	28.18	4.47	2.13	Calculated
20	Pipe - (308)	Structure - (317)	Structure - (318)	43.64	3114.53	3114.47	0.1400	36.000	0.0120	24.00	26.79	4.28	2.22	Calculated
21	Pipe - (309)	Structure - (318)	Structure - (319)	104.45	3114.47	3114.32	0.1400	36.000	0.0120	24.00	27.38	4.37	2.18	Calculated
22	Pipe - (310)	Structure - (319)	Structure - (320)	66.88	3114.32	3114.22	0.1500	36.000	0.0120	24.00	27.94	4.44	2.14	Calculated
23	Pipe - (311)	Structure - (320)	Structure - (320)AP	105.90	3114.22	3114.07	0.1400	36.000	0.0120	24.00	27.19	4.34	2.19	Calculated
24	Pipe - (311) (1)	Structure - (320)AP	Structure - (321)	67.15	3114.07	3113.97	0.1500	36.000	0.0120	24.00	27.88	4.43	2.15	Calculated
25	Pipe - (312)	Structure - (321)	Structure - (322)	35.77	3113.97	3113.92	0.1400	36.000	0.0120	24.00	27.01	4.31	2.20	Calculated
26	Pipe - (313)	Structure - (322)	Structure - (323)	28.54	3113.92	3113.88	0.1400	36.000	0.0120	24.00	27.05	4.32	2.20	Calculated
27	Pipe - (314)	Structure - (323)	Structure - (324)	138.98	3113.88	3113.67	0.1500	36.000	0.0120	24.00	28.09	4.46	2.13	Calculated
28	Pipe - (315)	Structure - (324)	Structure - (325)	17.18	3113.67	3113.65	0.1200	36.000	0.0120	24.00	24.65	3.97	2.39	Calculated
29	Pipe - (316)	Structure - (325)	Structure - (326)	51.12	3113.65	3113.58	0.1400	36.000	0.0120	24.00	26.74	4.28	2.22	Calculated
30	Pipe - (317)	Structure - (326)	Structure - (327)	26.34	3113.58	3113.54	0.1500	36.000	0.0120	24.00	28.16	4.47	2.13	Calculated
31	Pipe - (318)	Structure - (327)	Structure - (328)	53.54	3113.54	3113.46	0.1500	36.000	0.0120	24.00	27.93	4.44	2.14	Calculated
32	Pipe - (319)	Structure - (328)	Structure - (329)	129.76	3113.46	3113.28	0.1400	36.000	0.0120	24.00	26.91	4.30	2.21	Calculated
33	Pipe - (320)	Structure - (329)	Structure - (330)	13.67	3113.28	3113.26	0.1500	36.000	0.0120	24.00	27.64	4.40	2.16	Calculated
34	Pipe - (321)	Structure - (330)	Structure - (331)	21.38	3113.26	3113.23	0.1400	36.000	0.0120	24.00	27.07	4.32	2.20	Calculated
35	Pipe - (322)	Structure - (331)	Structure - (333)	13.67	3113.23	3113.21	0.1500	36.000	0.0120	24.00	27.63	4.40	2.16	Calculated
36	Pipe - (323)	Structure - (333)	Structure - (334)	53.05	3113.21	3113.14	0.1300	36.000	0.0120	24.00	26.25	4.21	2.26	Calculated
37	Pipe - (324)	Structure - (334)	Structure - (335)	115.56	3113.14	3113.00	0.1200	36.000	0.0120	24.00	25.15	4.05	2.35	Calculated
38	Pipe - (325)	Structure - (335)	Structure - (337)	199.45	3113.00	3112.77	0.1200	36.000	0.0120	24.00	24.54	3.95	2.40	Calculated
39	Pipe - (326)	Structure - (337)	Structure - (338)	40.39	3112.77	3112.72	0.1200	36.000	0.0120	24.00	25.42	4.09	2.32	Calculated
40	Pipe - (327)	Structure - (338)	Structure - (339)AP	16.89	3112.72	3112.69	0.1800	36.000	0.0120	24.00	30.45	4.77	2.01	Calculated
41	Pipe - (328)	Structure - (339)AP	Structure - (340)	70.01	3112.69	3112.60	0.1300	36.000	0.0120	24.00	25.91	4.16	2.28	Calculated
42	Pipe - (329)	Structure - (340)	Structure - (341)	19.64	3112.60	3112.57	0.1500	36.000	0.0120	24.00	28.24	4.48	2.13	Calculated
43	Pipe - (330)	Structure - (341)	Structure - (342)	112.40	3112.57	3112.41	0.1500	36.000	0.0120	24.00	27.53	4.39	2.17	Calculated
44	Pipe - (331)	Structure - (342)	Structure - (343)	4.83	3112.41	3112.40	0.1400	36.000	0.0120	24.00	27.09	4.33	2.20	Calculated
45	Pipe - (331)WoodtoHDPE	Structure - (343)	Structure - (345)	88.06	3112.40	3112.28	0.1400	36.000	0.0120	24.00	26.67	4.27	2.23	Calculated
46	Pipe - (332)	Structure - (345)	Structure - (346)	8.85	3112.28	3112.26	0.2300	36.000	0.0120	24.00	34.29	5.25	1.85	Calculated
47	Pipe - (333)	Structure - (346)	Structure - (347)	51.99	3112.26	3112.15	0.2100	36.000	0.0120	24.00	33.20	5.12	1.89	Calculated
48	Pipe - (334)	Structure - (347)	Structure - (597)	5.05	3112.15	3112.14	0.2100	36.000	0.0120	24.00	33.13	5.11	1.89	Calculated
49	Pipe - (335)CMPtoHDPE	Structure - (597)	Structure - (598)	67.52	3112.14	3112.00	0.2100	36.000	0.0120	24.00	33.20	5.12	1.89	Calculated
50	Pipe - (336)CMPtoHDPE	Structure - (598)	Structure - (600)	91.69	3112.00	3111.80	0.2100	36.000	0.0120	24.00	33.20	5.12	1.89	Calculated
51	Pipe - (337)	Structure - (600)	Structure - (599)	2.49	3111.80	3111.80	0.2100	36.000	0.0120	24.00	32.81	5.07	1.91	Calculated
52	Pipe - (338)	Structure - (599)	Structure - (352)	192.72	3111.80	3111.39	0.2100	36.000	0.0120	24.00	33.20	5.12	1.89	Calculated
53	Pipe - (339)	Structure - (352)	Structure - (353)	22.82	3111.39	3111.34	0.2100	36.000	0.0120	24.00	33.20	5.12	1.89	Calculated
54	Pipe - (340)	Structure - (353)	Structure - (354)	32.15	3111.34	3111.28	0.2100	36.000	0.0120	24.00	33.24	5.12	1.89	Calculated
55	Pipe - (341)	Structure - (354)	Structure - (355)	23.80	3111.28	3111.23	0.2100	36.000	0.0120	24.00	33.14	5.11	1.89	Calculated
56	Pipe - (342)	Structure - (355)	Structure - (356)	99.48	3111.23	3111.02	0.2100	36.000	0.0120	24.00	33.20	5.12	1.89	Calculated
57	Pipe - (343)	Structure - (356)	Structure - (357)AP	168.35	3111.02	3110.66	0.2100	36.000	0.0120	24.00	33.20	5.12	1.89	Calculated
58	Pipe - (344)	Structure - (357)AP	Structure - (601)	134.68	3110.66	3110.48	0.1300	36.000	0.0120	24.00	26.42	4.23	2.24	Calculated

## 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)	Design Flow Capacity (cfs)	Peak Flow Velocity (ft/sec)	Peak Flow Reported Depth (ft)	Condition
59	Pipe - (345)	Pipe Structure - (601)	Structure - (602)	106.80	3110.48	3110.34	0.1300	36.000	0.0120	24.00	26.16	4.20	2.26	Calculated
60	Pipe - (346)	Pipe Structure - (602)	Structure - (603)	8.23	3110.34	3110.32	0.2400	36.000	0.0120	24.00	35.61	5.40	1.80	Calculated
61	Pipe - (346)WoodtoHDPE1	Pipe Structure - (603)	Structure - (604)	35.57	3110.32	3110.22	0.2800	36.000	0.0120	24.00	38.26	5.71	1.72	Calculated
62	Pipe - (346)WoodtoHDPE2	Pipe Structure - (604)	Structure - (605)	111.68	3110.22	3109.91	0.2700	36.000	0.0120	24.00	37.81	5.66	1.74	Calculated
63	Pipe - (346)WoodtoHDPE3	Pipe Structure - (605)	Structure - (606)	18.93	3109.91	3109.86	0.2700	36.000	0.0120	24.00	37.89	5.67	1.73	Calculated
64	Pipe - (346)WoodtoHDPE4	Pipe Structure - (606)	Structure - (607)	20.57	3109.86	3109.81	0.2500	36.000	0.0120	24.00	36.48	5.50	1.78	Calculated
65	Pipe - (346)WoodtoHDPE5	Pipe Structure - (607)	Structure - (608)	6.08	3109.81	3109.80	0.1200	36.000	0.0120	24.00	24.77	3.99	2.38	Calculated
66	Pipe - (346)WoodtoHDPE6	Pipe Structure - (608)	Structure - (361)	61.41	3109.80	3109.73	0.1200	36.000	0.0120	24.00	25.06	4.03	2.35	Calculated
67	Pipe - (347)	Pipe Structure - (361)	Structure - (362)	10.25	3109.73	3109.71	0.1700	36.000	0.0120	24.00	29.85	4.69	2.04	Calculated
68	Pipe - (348)	Pipe Structure - (362)	Structure - (363)	101.96	3109.71	3109.54	0.1700	36.000	0.0120	24.00	29.99	4.71	2.03	Calculated
69	Pipe - (349)	Pipe Structure - (363)	Structure - (364)	39.55	3109.54	3109.47	0.1700	36.000	0.0120	24.00	29.88	4.70	2.04	Calculated
70	Pipe - (350)	Pipe Structure - (364)	Structure - (365)	13.69	3109.47	3109.44	0.1700	36.000	0.0120	24.00	29.94	4.71	2.03	Calculated
71	Pipe - (351)	Pipe Structure - (365)	Structure - (366)	34.74	3109.44	3109.38	0.1700	36.000	0.0120	24.00	30.05	4.72	2.03	Calculated
72	Pipe - (352)	Pipe Structure - (366)	Structure - (367)	31.03	3109.38	3109.33	0.1700	36.000	0.0120	24.00	29.90	4.70	2.04	Calculated
73	Pipe - (353)	Pipe Structure - (367)	Structure - (368)	13.06	3109.33	3109.31	0.1800	36.000	0.0120	24.00	30.36	4.76	2.01	Calculated
74	Pipe - (355)	Pipe Structure - (369)AP	Structure - (370)	79.65	3109.12	3108.96	0.2000	36.000	0.0120	24.00	32.32	5.01	1.93	Calculated
75	Pipe - (357)	Pipe Structure - (368)	Structure - (369)AP	122.66	3109.31	3109.12	0.1500	36.000	0.0120	24.00	28.30	4.49	2.12	Calculated
76	Pipe - (358)	Pipe Structure - (370)	Structure - (372)	73.98	3108.96	3108.83	0.1700	36.000	0.0120	24.00	29.94	4.71	2.03	Calculated
77	Pipe - (359)	Pipe Structure - (372)	Structure - (373)	115.36	3108.83	3108.64	0.1700	36.000	0.0120	24.00	29.94	4.71	2.03	Calculated
78	Pipe - (360)	Pipe Structure - (373)	Structure - (374)	61.43	3108.64	3108.53	0.1700	36.000	0.0120	24.00	30.00	4.71	2.03	Calculated
79	Pipe - (360)WoodtoHDPE	Pipe Structure - (374)	Structure - (375)	84.04	3108.53	3108.24	0.3500	36.000	0.0120	24.00	42.44	6.19	1.62	Calculated
80	Pipe - (361)	Pipe Structure - (375)	Structure - (376)	86.77	3108.24	3108.04	0.2300	36.000	0.0120	24.00	34.92	5.32	1.83	Calculated
81	Pipe - (362)	Pipe Structure - (376)	Structure - (377)	83.89	3108.04	3107.84	0.2300	36.000	0.0120	24.00	34.89	5.32	1.83	Calculated
82	Pipe - (363)	Pipe Structure - (377)	Structure - (378)	71.93	3107.84	3107.67	0.2300	36.000	0.0120	24.00	34.98	5.33	1.83	Calculated
83	Pipe - (364)	Pipe Structure - (378)	Structure - (379)	25.07	3107.67	3107.61	0.2300	36.000	0.0120	24.00	34.91	5.32	1.83	Calculated
84	Pipe - (365)	Pipe Structure - (379)	Structure - (380)	70.07	3107.61	3107.45	0.2300	36.000	0.0120	24.00	34.93	5.32	1.83	Calculated
85	Pipe - (366)	Pipe Structure - (380)	Structure - (381)	69.93	3107.45	3107.29	0.2300	36.000	0.0120	24.00	34.92	5.32	1.83	Calculated
86	Pipe - (367)	Pipe Structure - (381)	Structure - (382)	98.43	3107.29	3107.04	0.2500	36.000	0.0120	24.00	36.24	5.48	1.78	Calculated
87	Pipe - (368)	Pipe Structure - (382)	Structure - (382)AP	24.15	3107.04	3107.00	0.1600	36.000	0.0120	24.00	28.46	4.51	2.11	Calculated
88	Pipe - (368) (1)	Pipe Structure - (382)AP	Structure - (383)	98.36	3107.00	3106.85	0.1600	36.000	0.0120	24.00	28.46	4.51	2.11	Calculated
89	Pipe - (369)	Pipe Structure - (383)	Structure - (384)	189.13	3106.85	3106.57	0.1500	36.000	0.0120	24.00	27.80	4.42	2.15	Calculated
90	Pipe - (370)	Pipe Structure - (384)	Structure - (385)	64.36	3106.57	3106.47	0.1600	36.000	0.0120	24.00	28.48	4.51	2.11	Calculated
91	Pipe - (371)	Pipe Structure - (385)	Structure - (386)	113.30	3106.47	3106.30	0.1500	36.000	0.0120	24.00	27.99	4.45	2.14	Calculated
92	Pipe - (372)	Pipe Structure - (386)	Structure - (387)	149.83	3106.30	3106.07	0.1500	36.000	0.0120	24.00	28.31	4.49	2.12	Calculated
93	Pipe - (374)	Pipe Structure - (387)	Structure - (388)	49.25	3106.07	3105.99	0.1600	36.000	0.0120	24.00	29.12	4.60	2.08	Calculated
94	Pipe - (375)	Pipe Structure - (388)	Structure - (389)	76.15	3105.99	3105.88	0.1400	36.000	0.0120	24.00	27.46	4.38	2.17	Calculated
95	Pipe - (376)	Pipe Structure - (389)	Structure - (390)	52.60	3105.88	3105.80	0.1500	36.000	0.0120	24.00	28.18	4.47	2.13	Calculated
96	Pipe - (377)	Pipe Structure - (390)	Structure - (391)	136.49	3105.80	3105.59	0.1500	36.000	0.0120	24.00	28.34	4.50	2.12	Calculated
97	Pipe - (378)	Pipe Structure - (391)	Structure - (391)AP	20.36	3105.59	3105.56	0.1500	36.000	0.0120	24.00	28.32	4.49	2.12	Calculated
98	Pipe - (378) (1)	Pipe Structure - (391)AP	Structure - (392)	127.99	3105.56	3105.36	0.1600	36.000	0.0120	24.00	28.47	4.51	2.11	Calculated
99	Pipe - (379)	Pipe Structure - (392)	Structure - (393)	49.35	3105.36	3105.29	0.1400	36.000	0.0120	24.00	27.21	4.34	2.19	Calculated
100	Pipe - (380)	Pipe Structure - (393)	Structure - (394)	17.07	3105.29	3105.26	0.1800	36.000	0.0120	24.00	30.29	4.75	2.02	Calculated
101	Pipe - (381)	Pipe Structure - (394)	Structure - (395)	26.88	3105.26	3105.22	0.1500	36.000	0.0120	24.00	27.87	4.43	2.15	Calculated
102	Pipe - (382)	Pipe Structure - (395)	Structure - (396)	49.52	3105.22	3105.15	0.1400	36.000	0.0120	24.00	27.17	4.34	2.19	Calculated
103	Pipe - (383)	Pipe Structure - (396)	Structure - (397)	41.50	3105.15	3105.09	0.1400	36.000	0.0120	24.00	27.48	4.38	2.17	Calculated
104	Pipe - (384)	Pipe Structure - (397)	Structure - (398)	10.53	3105.09	3105.07	0.1900	36.000	0.0120	24.00	31.49	4.90	1.96	Calculated
105	Pipe - (385)	Pipe Structure - (398)	Structure - (399)	13.68	3105.07	3105.05	0.1500	36.000	0.0120	24.00	27.63	4.40	2.16	Calculated
106	Pipe - (386)	Pipe Structure - (399)	Structure - (400)	47.87	3105.05	3104.97	0.1700	36.000	0.0120	24.00	29.54	4.65	2.05	Calculated
107	Pipe - (387)	Pipe Structure - (400)	Structure - (401)	354.58	3104.97	3104.43	0.1500	36.000	0.0120	24.00	28.20	4.48	2.13	Calculated
108	Pipe - (388)	Pipe Structure - (401)	Structure - (401)AP	260.90	3104.43	3104.04	0.1500	36.000	0.0120	24.00	28.10	4.46	2.13	Calculated
109	Pipe - (388) (1)	Pipe Structure - (401)AP	Structure - (402)	36.70	3104.04	3103.98	0.1500	36.000	0.0120	24.00	28.06	4.46	2.14	Calculated
110	Pipe - (389)	Pipe Structure - (402)	Structure - (403)	20.88	3103.98	3103.93	0.2400	36.000	0.0120	24.00	35.36	5.37	1.81	Calculated
111	Pipe - (390)	Pipe Structure - (403)	Structure - (404)	39.71	3103.93	3103.82	0.2800	36.000	0.0120	24.00	38.03	5.69	1.73	Calculated
112	Pipe - (391)	Pipe Structure - (404)	Structure - (405)	245.90	3103.82	3103.17	0.2600	36.000	0.0120	24.00	37.15	5.58	1.76	Calculated
113	Pipe - (392)	Pipe Structure - (405)	Structure - (406)	15.92	3103.17	3103.13	0.2500	36.000	0.0120	24.00	36.22	5.48	1.79	Calculated
114	Pipe - (393)	Pipe Structure - (406)	Structure - (407)	35.04	3103.13	3103.04	0.2600	36.000	0.0120	24.00	36.62	5.52	1.77	Calculated
115	Pipe - (394)	Pipe Structure - (407)	Structure - (408)	49.11	3103.04	3102.91	0.2600	36.000	0.0120	24.00	37.18	5.59	1.76	Calculated
116	Pipe - (395)	Pipe Structure - (408)	Structure - (409)	72.35	3102.91	3102.72	0.2600	36.000	0.0120	24.00	37.03	5.57	1.76	Calculated



## 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)	Design Flow Capacity (cfs)	Peak Flow Velocity (ft/sec)	Peak Flow Reported Depth (ft)	Condition
117	Pipe	Structure - (409)	Structure - (409)TO	91.47	3102.72	3102.47	0.2700	36.000	0.0120	24.00	37.80	5.66	1.74	Calculated
118	Pipe	Structure - (409)TO	Structure - (410)	22.25	3102.47	3102.42	0.2200	36.000	0.0120	24.00	34.13	5.23	1.86	Calculated
119	Pipe	Structure - (410)	Structure - (411)	93.62	3102.42	3102.23	0.2000	36.000	0.0120	24.00	32.20	4.99	1.93	Calculated
120	Pipe	Structure - (411)	Structure - (412)	29.75	3102.23	3102.17	0.2100	36.000	0.0120	24.00	32.74	5.06	1.91	Calculated
121	Pipe	Structure - (412)	Structure - (413)	242.85	3102.17	3101.68	0.2000	36.000	0.0120	24.00	32.69	5.05	1.91	Calculated
122	Pipe	Structure - (413)	Structure - (414)	103.02	3101.68	3101.47	0.2000	36.000	0.0120	24.00	32.65	5.05	1.91	Calculated
123	Pipe	Structure - (414)	Structure - (415)	65.85	3101.47	3101.33	0.2000	36.000	0.0120	24.00	32.66	5.05	1.91	Calculated
124	Pipe	Structure - (415)	Structure - (416)	143.47	3101.33	3101.04	0.2000	36.000	0.0120	24.00	32.69	5.05	1.91	Calculated
125	Pipe	Structure - (416)	Structure - (417)	188.81	3101.04	3100.65	0.2000	36.000	0.0120	24.00	32.69	5.05	1.91	Calculated
126	Pipe	Structure - (417)	Structure - (418)	160.72	3100.65	3100.32	0.2000	36.000	0.0120	24.00	32.68	5.05	1.91	Calculated
127	Pipe	Structure - (418)	Structure - (419)	160.80	3100.32	3099.99	0.2000	36.000	0.0120	24.00	32.69	5.05	1.91	Calculated
128	Pipe	Structure - (419)	Structure - (420)	76.37	3099.99	3099.84	0.2000	36.000	0.0120	24.00	32.68	5.05	1.91	Calculated
129	Pipe	Structure - (420)	Structure - (420)AP	105.30	3099.84	3099.62	0.2000	36.000	0.0120	24.00	32.64	5.05	1.91	Calculated
130	Pipe	Structure - (420)AP	Structure - (421)	77.31	3099.62	3099.48	0.1800	36.000	0.0120	24.00	30.98	4.84	1.98	Calculated
131	Pipe	Structure - (421)	Structure - (422)	65.13	3099.48	3099.36	0.1800	36.000	0.0120	24.00	31.01	4.84	1.98	Calculated
132	Pipe	Structure - (422)	Structure - (423)	51.84	3099.36	3099.27	0.1700	36.000	0.0120	24.00	30.11	4.73	2.02	Calculated
133	Pipe	Structure - (423)	Structure - (424)	47.78	3099.27	3099.18	0.1900	36.000	0.0120	24.00	31.36	4.89	1.97	Calculated
134	Pipe	Structure - (424)	Structure - (425)	234.09	3099.18	3098.75	0.1800	36.000	0.0120	24.00	30.88	4.83	1.99	Calculated
135	Pipe	Structure - (425)	Structure - (426)	167.96	3098.75	3098.45	0.1800	36.000	0.0120	24.00	30.88	4.83	1.99	Calculated
136	Pipe	Structure - (426)	Structure - (427)	12.21	3098.45	3098.42	0.1800	36.000	0.0120	24.00	30.82	4.82	1.99	Calculated
137	Pipe	Structure - (427)	Structure - (428)	30.34	3098.42	3098.37	0.1800	36.000	0.0120	24.00	30.84	4.82	1.99	Calculated
138	Pipe	Structure - (428)	Structure - (429)	13.70	3098.37	3098.34	0.1800	36.000	0.0120	24.00	31.03	4.85	1.98	Calculated
139	Pipe	Structure - (429)	Structure - (430)	41.46	3098.34	3098.27	0.1800	36.000	0.0120	24.00	30.84	4.82	1.99	Calculated
140	Pipe	Structure - (430)	Structure - (431)	78.41	3098.27	3098.12	0.1800	36.000	0.0120	24.00	30.89	4.83	1.99	Calculated
141	Pipe	Structure - (431)	Structure - (432)	114.69	3098.12	3097.93	0.1700	36.000	0.0120	24.00	29.70	4.67	2.05	Calculated
142	Pipe	Structure - (432)	Structure - (433)	15.35	3097.93	3097.90	0.2000	36.000	0.0120	24.00	31.92	4.96	1.94	Calculated
143	Pipe	Structure - (433)	Structure - (434)AP	113.09	3097.90	3097.68	0.1900	36.000	0.0120	24.00	31.90	4.96	1.94	Calculated
144	Pipe	Structure - (434)AP	Structure - (435)	90.83	3097.68	3097.51	0.1900	36.000	0.0120	24.00	31.26	4.88	1.97	Calculated
145	Pipe	Structure - (435)	Structure - (436)	94.96	3097.51	3097.34	0.1800	36.000	0.0120	24.00	30.57	4.79	2.00	Calculated
146	Pipe	Structure - (436)	Structure - (437)	38.37	3097.34	3097.27	0.1800	36.000	0.0120	24.00	30.86	4.83	1.99	Calculated
147	Pipe	Structure - (437)	Structure - (438)	64.95	3097.27	3097.15	0.1800	36.000	0.0120	24.00	31.06	4.85	1.98	Calculated
148	Pipe	Structure - (438)	Structure - (439)	79.93	3097.15	3097.01	0.1800	36.000	0.0120	24.00	30.24	4.75	2.02	Calculated
149	Pipe	Structure - (439)	Structure - (440)	142.22	3097.01	3096.75	0.1800	36.000	0.0120	24.00	30.90	4.83	1.99	Calculated
150	Pipe	Structure - (440)	Structure - (441)	107.42	3096.75	3096.55	0.1900	36.000	0.0120	24.00	31.18	4.87	1.97	Calculated
151	Pipe	Structure - (441)	Structure - (442)	80.57	3096.55	3096.40	0.1900	36.000	0.0120	24.00	31.18	4.87	1.97	Calculated
152	Pipe	Structure - (442)	Structure - (443)	55.21	3096.40	3096.30	0.1800	36.000	0.0120	24.00	30.75	4.81	1.99	Calculated
153	Pipe	Structure - (443)	Structure - (444)	109.77	3096.30	3096.10	0.1800	36.000	0.0120	24.00	30.06	4.72	2.03	Calculated
154	Pipe	Structure - (444)	Structure - (445)	75.07	3096.11	3095.97	0.1900	36.000	0.0120	24.00	31.20	4.87	1.97	Calculated
155	Pipe	Structure - (445)	Structure - (447)	38.61	3095.97	3095.90	0.1800	36.000	0.0120	24.00	30.77	4.81	1.99	Calculated
156	Pipe	Structure - (447)	Structure - (447)AP	58.51	3095.90	3095.78	0.2100	36.000	0.0120	24.00	32.85	5.07	1.90	Calculated
157	Pipe	Structure - (447)AP	Structure - (448)	108.21	3095.78	3095.51	0.2500	36.000	0.0120	24.00	36.03	5.45	1.79	Calculated
158	Pipe	Structure - (448)	Structure - (449)	113.18	3095.51	3095.25	0.2300	36.000	0.0120	24.00	34.63	5.29	1.84	Calculated
159	Pipe	Structure - (449)	Structure - (450)	163.76	3095.25	3094.87	0.2300	36.000	0.0120	24.00	34.81	5.31	1.83	Calculated
160	Pipe	Structure - (450)	Structure - (451)	18.39	3094.87	3094.82	0.2700	36.000	0.0120	24.00	37.68	5.65	1.74	Calculated
161	Pipe	Structure - (451)	Structure - (452)	53.75	3094.82	3094.70	0.2200	36.000	0.0120	24.00	34.14	5.23	1.86	Calculated
162	Pipe	Structure - (452)	Structure - (453)	19.62	3094.70	3094.65	0.2500	36.000	0.0120	24.00	36.48	5.50	1.78	Calculated
163	Pipe	Structure - (453)	Structure - (454)	72.14	3094.65	3094.49	0.2200	36.000	0.0120	24.00	34.03	5.21	1.86	Calculated
164	Pipe	Structure - (454)	Structure - (455)	179.23	3094.49	3094.07	0.2300	36.000	0.0120	24.00	34.98	5.33	1.83	Calculated
165	Pipe	Structure - (455)	Structure - (455)AP	71.71	3094.07	3093.91	0.2200	36.000	0.0120	24.00	34.06	5.22	1.86	Calculated
166	Pipe	Structure - (455)AP	Structure - (456)	242.44	3093.91	3093.34	0.2400	36.000	0.0120	24.00	35.06	5.34	1.82	Calculated
167	Pipe	Structure - (456)	Structure - (457)	88.84	3093.34	3093.17	0.1900	36.000	0.0120	24.00	31.61	4.92	1.96	Calculated
168	Pipe	Structure - (457)	Structure - (458)	136.52	3093.17	3092.81	0.2600	36.000	0.0120	24.00	37.10	5.58	1.76	Calculated
169	Pipe	Structure - (458)	Out-1Pipe - (CascadeFalls)	26.85	3092.81	3092.75	0.2200	36.000	0.0120	24.00	34.16	5.23	1.85	Calculated

# Junction Input

SN	Element ID	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Initial Water Elevation (ft)	Initial Water Depth (ft)	Surcharge Elevation (ft)	Surcharge Depth (ft)	Ponded Area (ft²)	Minimum Pipe Cover (in)
1	Structure - (298)-WoodleafSiphonOutlet	3116.56	3119.82	3.26	3116.56	0.00	3119.82	0.00	0.00	0.00
2	Structure - (299)	3116.48	3119.75	3.27	3116.49	0.01	3119.75	0.00	0.00	0.00
3	Structure - (300)	3116.45	3119.45	3.00	3116.45	0.00	3119.46	0.01	0.00	0.00
4	Structure - (301)	3116.43	3119.43	3.00	3116.43	0.00	3119.44	0.01	0.00	0.00
5	Structure - (302)	3116.39	3119.39	3.00	3116.41	0.02	3119.65	0.26	0.00	0.00
6	Structure - (303)	3116.34	3119.34	3.00	3116.34	0.00	3119.35	0.01	0.00	0.00
7	Structure - (304)	3116.27	3119.52	3.25	3116.27	0.00	3119.52	0.00	0.00	0.00
8	Structure - (305)	3116.19	3119.44	3.25	3116.19	0.00	3119.44	0.00	0.00	0.00
9	Structure - (306)	3116.12	3119.38	3.26	3116.12	0.00	3119.38	0.00	0.00	0.00
10	Structure - (307)	3116.00	3119.26	3.26	3116.00	0.00	3119.26	0.00	0.00	0.00
11	Structure - (308)	3115.90	3119.16	3.26	3115.90	0.00	3119.16	0.00	0.00	0.00
12	Structure - (309)	3115.72	3118.97	3.25	3115.72	0.00	3118.97	0.00	0.00	0.00
13	Structure - (310)AP	3115.50	3119.43	3.93	3115.50	0.00	3119.43	0.00	10.00	0.00
14	Structure - (311)	3115.10	3118.36	3.26	3115.10	0.00	3118.36	0.00	0.00	0.00
15	Structure - (312)	3114.95	3118.20	3.25	3114.95	0.00	3118.20	0.00	0.00	0.00
16	Structure - (313)	3114.80	3118.06	3.26	3114.80	0.00	3118.06	0.00	0.00	0.00
17	Structure - (314)	3114.74	3117.99	3.25	3114.74	0.00	3117.99	0.00	0.00	0.00
18	Structure - (315)Turn Out - Box-4	3114.71	3119.31	4.60	3114.71	0.00	3119.31	0.00	10.00	0.00
19	Structure - (316)	3114.67	3117.92	3.25	3114.67	0.00	3117.92	0.00	0.00	0.00
20	Structure - (317)	3114.53	3117.79	3.26	3114.53	0.00	3117.79	0.00	0.00	0.00
21	Structure - (318)	3114.47	3117.72	3.25	3114.47	0.00	3117.72	0.00	0.00	0.00
22	Structure - (319)	3114.32	3117.57	3.25	3114.32	0.00	3117.57	0.00	0.00	0.00
23	Structure - (320)	3114.22	3117.48	3.26	3114.22	0.00	3117.48	0.00	0.00	0.00
24	Structure - (320)AP	3114.07	3118.00	3.93	3114.07	0.00	3118.00	0.00	10.00	0.00
25	Structure - (321)	3113.97	3117.22	3.25	3113.97	0.00	3117.22	0.00	0.00	0.00
26	Structure - (322)	3113.92	3117.17	3.25	3113.92	0.00	3117.17	0.00	0.00	0.00
27	Structure - (323)	3113.88	3117.13	3.25	3113.88	0.00	3117.13	0.00	0.00	0.00
28	Structure - (324)	3113.67	3116.93	3.26	3113.67	0.00	3116.93	0.00	0.00	0.00
29	Structure - (325)	3113.65	3116.90	3.25	3113.65	0.00	3116.90	0.00	0.00	0.00
30	Structure - (326)	3113.58	3116.58	3.00	3113.58	0.00	3116.58	0.00	0.00	0.00
31	Structure - (327)	3113.54	3116.79	3.25	3113.54	0.00	3116.79	0.00	0.00	0.00
32	Structure - (328)	3113.46	3116.71	3.25	3113.46	0.00	3116.71	0.00	0.00	0.00
33	Structure - (329)	3113.28	3116.53	3.25	3113.28	0.00	3116.53	0.00	0.00	0.00
34	Structure - (330)	3113.26	3116.26	3.00	3113.26	0.00	3116.26	0.00	0.00	0.00
35	Structure - (331)	3113.23	3116.47	3.24	3113.23	0.00	3116.47	0.00	0.00	0.00
36	Structure - (333)	3113.21	3116.45	3.24	3113.21	0.00	3116.45	0.00	0.00	0.00
37	Structure - (334)	3113.14	3116.14	3.00	3113.14	0.00	3116.14	0.00	0.00	0.00
38	Structure - (335)	3113.00	3115.99	2.99	3113.00	0.00	3115.99	0.00	0.00	0.00
39	Structure - (337)	3112.77	3115.77	3.00	3112.77	0.00	3115.77	0.00	0.00	0.00
40	Structure - (338)	3112.72	3115.98	3.26	3112.72	0.00	3115.98	0.00	0.00	0.00
41	Structure - (339)AP	3112.69	3116.29	3.60	3112.69	0.00	3116.29	0.00	10.00	0.00
42	Structure - (340)	3112.60	3115.60	3.00	3112.60	0.00	3115.60	0.00	0.00	0.00
43	Structure - (341)	3112.57	3115.83	3.26	3112.57	0.00	3115.83	0.00	0.00	0.00
44	Structure - (342)	3112.41	3115.66	3.26	3112.41	0.00	3115.66	0.00	0.00	0.00
45	Structure - (343)	3112.40	3115.66	3.26	3112.40	0.00	3115.66	0.00	0.00	0.00
46	Structure - (345)	3112.28	3115.54	3.26	3112.28	0.00	3115.54	0.00	0.00	0.00
47	Structure - (346)	3112.26	3115.52	3.26	3112.26	0.00	3115.52	0.00	0.00	0.00
48	Structure - (347)	3112.15	3115.41	3.26	3112.15	0.00	3115.41	0.00	0.00	0.00
49	Structure - (352)	3111.39	3114.65	3.26	3111.39	0.00	3114.65	0.00	0.00	0.00
50	Structure - (353)	3111.34	3114.60	3.26	3111.34	0.00	3114.60	0.00	0.00	0.00
51	Structure - (354)	3111.28	3114.53	3.26	3111.28	0.00	3114.53	0.00	0.00	0.00
52	Structure - (355)	3111.23	3114.48	3.26	3111.23	0.00	3114.48	0.00	0.00	0.00
53	Structure - (356)	3111.02	3114.27	3.26	3111.02	0.00	3114.27	0.00	0.00	0.00
54	Structure - (357)AP	3110.66	3114.59	3.93	3110.66	0.00	3114.59	0.00	10.00	0.00
55	Structure - (361)	3109.73	3112.98	3.26	3109.73	0.00	3112.98	0.00	0.00	0.00
56	Structure - (362)	3109.71	3112.97	3.26	3109.71	0.00	3112.97	0.00	0.00	0.00
57	Structure - (363)	3109.54	3112.79	3.26	3109.54	0.00	3112.79	0.00	0.00	0.00
58	Structure - (364)	3109.47	3112.72	3.26	3109.47	0.00	3112.72	0.00	0.00	0.00
59	Structure - (365)	3109.44	3112.70	3.26	3109.44	0.00	3112.70	0.00	0.00	0.00
60	Structure - (366)	3109.38	3112.64	3.26	3109.38	0.00	3112.64	0.00	0.00	0.00
61	Structure - (367)	3109.33	3112.59	3.26	3109.33	0.00	3112.59	0.00	0.00	0.00
62	Structure - (368)	3109.31	3112.56	3.26	3109.31	0.00	3112.56	0.00	0.00	0.00
63	Structure - (369)AP	3109.12	3113.05	3.93	3109.12	0.00	3113.05	0.00	10.00	0.00
64	Structure - (370)	3108.96	3112.22	3.26	3108.96	0.00	3112.22	0.00	0.00	0.00
65	Structure - (372)	3108.83	3112.09	3.26	3108.83	0.00	3112.09	0.00	0.00	0.00
66	Structure - (373)	3108.64	3111.89	3.26	3108.64	0.00	3111.89	0.00	0.00	0.00
67	Structure - (374)	3108.53	3111.79	3.26	3108.53	0.00	3111.79	0.00	0.00	0.00
68	Structure - (375)	3108.24	3111.50	3.26	3108.24	0.00	3111.50	0.00	0.00	0.00
69	Structure - (376)	3108.04	3111.29	3.26	3108.04	0.00	3111.29	0.00	0.00	0.00
70	Structure - (377)	3107.84	3111.10	3.26	3107.84	0.00	3111.10	0.00	0.00	0.00
71	Structure - (378)	3107.67	3110.93	3.26	3107.67	0.00	3110.93	0.00	0.00	0.00
72	Structure - (379)	3107.61	3110.87	3.26	3107.61	0.00	3110.87	0.00	0.00	0.00
73	Structure - (380)	3107.45	3110.71	3.26	3107.45	0.00	3110.71	0.00	0.00	0.00
74	Structure - (381)	3107.29	3110.54	3.26	3107.29	0.00	3110.54	0.00	0.00	0.00
75	Structure - (382)	3107.04	3110.30	3.26	3107.04	0.00	3110.30	0.00	0.00	0.00
76	Structure - (382)AP	3107.00	3110.93	3.93	3107.00	0.00	3110.93	0.00	10.00	0.00
77	Structure - (383)	3106.85	3110.11	3.26	3106.85	0.00	3110.11	0.00	0.00	0.00
78	Structure - (384)	3106.57	3109.82	3.25	3106.57	0.00	3109.82	0.00	0.00	0.00
79	Structure - (385)	3106.47	3109.72	3.25	3106.47	0.00	3109.72	0.00	0.00	0.00
80	Structure - (386)	3106.30	3109.55	3.25	3106.30	0.00	3109.55	0.00	0.00	0.00
81	Structure - (387)	3106.07	3109.32	3.25	3106.07	0.00	3109.32	0.00	0.00	0.00
82	Structure - (388)	3105.99	3109.25	3.26	3105.99	0.00	3109.25	0.00	0.00	0.00

# Junction Input

SN Element ID	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Initial Water Elevation (ft)	Initial Water Depth (ft)	Surcharge Elevation (ft)	Surcharge Depth (ft)	Ponded Area (ft <sup>2</sup> )	Minimum Pipe Cover (in)
83 Structure - (389)	3105.88	3109.13	3.25	3105.88	0.00	3109.13	0.00	0.00	0.00
84 Structure - (390)	3105.80	3109.05	3.25	3105.80	0.00	3109.05	0.00	0.00	0.00
85 Structure - (391)	3105.59	3108.85	3.26	3105.59	0.00	3108.85	0.00	0.00	0.00
86 Structure - (391)AP	3105.56	3109.52	3.96	3105.56	0.00	3109.52	0.00	10.00	0.00
87 Structure - (392)	3105.36	3108.62	3.26	3105.36	0.00	3108.62	0.00	0.00	0.00
88 Structure - (393)	3105.29	3108.54	3.25	3105.29	0.00	3108.54	0.00	0.00	0.00
89 Structure - (394)	3105.26	3108.52	3.26	3105.26	0.00	3108.52	0.00	0.00	0.00
90 Structure - (395)	3105.22	3108.48	3.26	3105.22	0.00	3108.48	0.00	0.00	0.00
91 Structure - (396)	3105.15	3108.40	3.25	3105.15	0.00	3108.40	0.00	0.00	0.00
92 Structure - (397)	3105.09	3108.09	3.00	3105.09	0.00	3108.09	0.00	0.00	0.00
93 Structure - (398)	3105.07	3108.32	3.25	3105.07	0.00	3108.32	0.00	0.00	0.00
94 Structure - (399)	3105.05	3108.30	3.25	3105.05	0.00	3108.30	0.00	0.00	0.00
95 Structure - (400)	3104.97	3108.23	3.26	3104.97	0.00	3108.23	0.00	0.00	0.00
96 Structure - (401)	3104.43	3107.69	3.26	3104.43	0.00	3107.69	0.00	0.00	0.00
97 Structure - (401)AP	3104.04	3107.96	3.93	3104.04	0.00	3107.96	0.00	10.00	0.00
98 Structure - (402)	3103.98	3107.24	3.26	3103.98	0.00	3107.24	0.00	0.00	0.00
99 Structure - (403)	3103.93	3107.18	3.25	3103.93	0.00	3107.18	0.00	0.00	0.00
100 Structure - (404)	3103.82	3107.08	3.26	3103.82	0.00	3107.08	0.00	0.00	0.00
101 Structure - (405)	3103.17	3106.43	3.26	3103.17	0.00	3106.43	0.00	0.00	0.00
102 Structure - (406)	3103.13	3106.39	3.26	3103.13	0.00	3106.39	0.00	0.00	0.00
103 Structure - (407)	3103.04	3106.29	3.25	3103.04	0.00	3106.29	0.00	0.00	0.00
104 Structure - (408)	3102.91	3106.16	3.25	3102.91	0.00	3106.16	0.00	0.00	0.00
105 Structure - (409)	3102.72	3105.97	3.25	3102.72	0.00	3105.97	0.00	0.00	0.00
106 Structure - (409)TO	3102.47	3107.23	4.76	3102.47	0.00	3107.23	0.00	10.00	0.00
107 Structure - (410)	3102.42	3105.68	3.26	3102.42	0.00	3105.68	0.00	0.00	0.00
108 Structure - (411)	3102.23	3105.49	3.26	3102.23	0.00	3105.49	0.00	0.00	0.00
109 Structure - (412)	3102.17	3105.43	3.26	3102.17	0.00	3105.43	0.00	0.00	0.00
110 Structure - (413)	3101.68	3104.93	3.26	3101.68	0.00	3104.93	0.00	0.00	0.00
111 Structure - (414)	3101.47	3104.72	3.26	3101.47	0.00	3104.72	0.00	0.00	0.00
112 Structure - (415)	3101.33	3104.59	3.26	3101.33	0.00	3104.59	0.00	0.00	0.00
113 Structure - (416)	3101.04	3104.29	3.26	3101.04	0.00	3104.29	0.00	0.00	0.00
114 Structure - (417)	3100.65	3103.91	3.26	3100.65	0.00	3103.91	0.00	0.00	0.00
115 Structure - (418)	3100.32	3103.58	3.26	3100.32	0.00	3103.58	0.00	0.00	0.00
116 Structure - (419)	3099.99	3103.25	3.26	3099.99	0.00	3103.25	0.00	0.00	0.00
117 Structure - (420)	3099.84	3103.09	3.26	3099.84	0.00	3103.09	0.00	0.00	0.00
118 Structure - (420)AP	3099.62	3103.55	3.93	3099.62	0.00	3103.55	0.00	10.00	0.00
119 Structure - (421)	3099.48	3102.74	3.26	3099.48	0.00	3102.74	0.00	0.00	0.00
120 Structure - (422)	3099.36	3102.62	3.26	3099.36	0.00	3102.62	0.00	0.00	0.00
121 Structure - (423)	3099.27	3102.52	3.25	3099.27	0.00	3102.52	0.00	0.00	0.00
122 Structure - (424)	3099.18	3102.44	3.26	3099.18	0.00	3102.44	0.00	0.00	0.00
123 Structure - (425)	3098.75	3102.01	3.26	3098.75	0.00	3102.01	0.00	0.00	0.00
124 Structure - (426)	3098.45	3101.70	3.26	3098.45	0.00	3101.70	0.00	0.00	0.00
125 Structure - (427)	3098.42	3101.68	3.26	3098.42	0.00	3101.68	0.00	0.00	0.00
126 Structure - (428)	3098.37	3101.62	3.26	3098.37	0.00	3101.62	0.00	0.00	0.00
127 Structure - (429)	3098.34	3101.60	3.26	3098.34	0.00	3101.60	0.00	0.00	0.00
128 Structure - (430)	3098.27	3101.52	3.26	3098.27	0.00	3101.52	0.00	0.00	0.00
129 Structure - (431)	3098.12	3101.38	3.26	3098.12	0.00	3101.38	0.00	0.00	0.00
130 Structure - (432)	3097.93	3101.19	3.26	3097.93	0.00	3101.19	0.00	0.00	0.00
131 Structure - (433)	3097.90	3101.16	3.26	3097.90	0.00	3101.16	0.00	0.00	0.00
132 Structure - (434)AP	3097.68	3102.20	4.52	3097.68	0.00	3102.20	0.00	10.00	0.00
133 Structure - (435)	3097.51	3100.77	3.26	3097.51	0.00	3100.77	0.00	0.00	0.00
134 Structure - (436)	3097.34	3100.60	3.26	3097.34	0.00	3100.60	0.00	0.00	0.00
135 Structure - (437)	3097.27	3100.53	3.26	3097.27	0.00	3100.53	0.00	0.00	0.00
136 Structure - (438)	3097.15	3100.41	3.26	3097.15	0.00	3100.41	0.00	0.00	0.00
137 Structure - (439)	3097.01	3100.26	3.25	3097.01	0.00	3100.26	0.00	0.00	0.00
138 Structure - (440)	3096.75	3100.00	3.25	3096.75	0.00	3100.00	0.00	0.00	0.00
139 Structure - (441)	3096.55	3099.81	3.26	3096.55	0.00	3099.81	0.00	0.00	0.00
140 Structure - (442)	3096.40	3099.66	3.26	3096.40	0.00	3099.66	0.00	0.00	0.00
141 Structure - (443)	3096.30	3099.56	3.26	3096.30	0.00	3099.56	0.00	0.00	0.00
142 Structure - (444)	3096.11	3099.11	3.00	3096.11	0.00	3099.11	0.00	0.00	0.00
143 Structure - (445)	3095.97	3099.22	3.25	3095.97	0.00	3099.22	0.00	0.00	0.00
144 Structure - (447)	3095.90	3099.16	3.26	3095.90	0.00	3099.16	0.00	0.00	0.00
145 Structure - (447)AP	3095.78	3099.71	3.93	3095.78	0.00	3099.71	0.00	10.00	0.00
146 Structure - (448)	3095.51	3098.77	3.26	3095.51	0.00	3098.77	0.00	0.00	0.00
147 Structure - (449)	3095.25	3098.50	3.25	3095.25	0.00	3098.50	0.00	0.00	0.00
148 Structure - (450)	3094.87	3098.12	3.25	3094.87	0.00	3098.12	0.00	0.00	0.00
149 Structure - (451)	3094.82	3098.08	3.26	3094.82	0.00	3098.08	0.00	0.00	0.00
150 Structure - (452)	3094.70	3097.96	3.26	3094.70	0.00	3097.96	0.00	0.00	0.00
151 Structure - (453)	3094.65	3097.91	3.26	3094.65	0.00	3097.91	0.00	0.00	0.00
152 Structure - (454)	3094.49	3097.74	3.25	3094.49	0.00	3097.74	0.00	0.00	0.00
153 Structure - (455)	3094.07	3097.33	3.26	3094.07	0.00	3097.33	0.00	0.00	0.00
154 Structure - (455)AP	3093.91	3097.84	3.93	3093.91	0.00	3097.84	0.00	10.00	0.00
155 Structure - (456)	3093.34	3096.59	3.25	3093.34	0.00	3096.59	0.00	0.00	0.00
156 Structure - (457)	3093.17	3096.43	3.26	3093.17	0.00	3096.43	0.00	0.00	0.00
157 Structure - (458)	3092.81	3096.07	3.26	3092.81	0.00	3096.07	0.00	0.00	0.00
158 Structure - (597)	3112.14	3115.40	3.26	3112.14	0.00	3115.40	0.00	0.00	0.00
159 Structure - (598)	3112.00	3115.25	3.26	3112.00	0.00	3115.25	0.00	0.00	0.00
160 Structure - (599)	3111.80	3115.05	3.26	3111.80	0.00	3115.05	0.00	0.00	0.00
161 Structure - (600)	3111.80	3115.06	3.26	3111.80	0.00	3115.06	0.00	0.00	0.00
162 Structure - (601)	3110.48	3113.74	3.26	3110.48	0.00	3113.74	0.00	0.00	0.00
163 Structure - (602)	3110.34	3113.60	3.26	3110.34	0.00	3113.60	0.00	0.00	0.00
164 Structure - (603)	3110.32	3113.58	3.26	3110.32	0.00	3113.58	0.00	0.00	0.00

## Junction Input

SN Element ID	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Initial Water Elevation (ft)	Initial Water Depth (ft)	Surcharge Elevation (ft)	Surcharge Depth (ft)	Ponded Area (ft <sup>2</sup> )	Minimum Pipe Cover (in)
165 Structure - (604)	3110.22	3113.48	3.26	3110.22	0.00	3113.48	0.00	0.00	0.00
166 Structure - (605)	3109.91	3113.17	3.26	3109.91	0.00	3113.17	0.00	0.00	0.00
167 Structure - (606)	3109.86	3113.12	3.26	3109.86	0.00	3113.12	0.00	0.00	0.00
168 Structure - (607)	3109.81	3113.07	3.26	3109.81	0.00	3113.07	0.00	0.00	0.00
169 Structure - (608)	3109.80	3113.06	3.26	3109.80	0.00	3113.06	0.00	0.00	0.00

# Junction Results

SN	Element ID	Peak Inflow	Max HGL Elevation Attained	Max HGL Depth Attained	Max Surchage Depth Attained	Min Freeboard Attained	Average HGL Elevation Attained	Average HGL Depth Attained	Total Flooded Volume
		(cfs)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ac-in)
1	Structure - (298)-WoodleafSiphonOutlet	24.00	3118.87	2.31	0.00	0.94	3118.87	2.31	0.00
2	Structure - (299)	24.00	3118.79	2.31	0.00	0.95	3118.79	2.31	0.00
3	Structure - (300)	24.00	3118.62	2.17	0.00	0.83	3118.62	2.17	0.00
4	Structure - (301)	24.00	3118.51	2.08	0.00	0.92	3118.51	2.08	0.00
5	Structure - (302)	24.00	3118.68	2.29	0.00	0.71	3118.68	2.29	0.00
6	Structure - (303)	24.00	3118.63	2.29	0.00	0.71	3118.63	2.29	0.00
7	Structure - (304)	24.00	3118.51	2.24	0.00	1.01	3118.51	2.24	0.00
8	Structure - (305)	24.00	3118.35	2.16	0.00	1.09	3118.35	2.16	0.00
9	Structure - (306)	24.00	3118.32	2.20	0.00	1.06	3118.32	2.20	0.00
10	Structure - (307)	24.00	3118.20	2.20	0.00	1.06	3118.20	2.20	0.00
11	Structure - (308)	24.00	3118.09	2.19	0.00	1.07	3118.09	2.19	0.00
12	Structure - (309)	24.00	3117.91	2.19	0.00	1.06	3117.91	2.19	0.00
13	Structure - (310)AP	24.00	3117.67	2.17	0.00	1.76	3117.67	2.17	0.00
14	Structure - (311)	24.00	3117.30	2.20	0.00	1.06	3117.30	2.20	0.00
15	Structure - (312)	24.00	3117.15	2.20	0.00	1.05	3117.15	2.20	0.00
16	Structure - (313)	24.00	3117.14	2.34	0.00	0.92	3117.14	2.34	0.00
17	Structure - (314)	24.00	3117.08	2.34	0.00	0.91	3117.08	2.34	0.00
18	Structure - (315)Turn Out - Box-4	24.00	3116.83	2.12	0.00	2.48	3116.83	2.12	0.00
19	Structure - (316)	24.00	3116.80	2.13	0.00	1.12	3116.80	2.13	0.00
20	Structure - (317)	24.00	3116.75	2.22	0.00	1.04	3116.75	2.22	0.00
21	Structure - (318)	24.00	3116.69	2.22	0.00	1.03	3116.69	2.22	0.00
22	Structure - (319)	24.00	3116.50	2.18	0.00	1.07	3116.50	2.18	0.00
23	Structure - (320)	24.00	3116.41	2.19	0.00	1.07	3116.41	2.19	0.00
24	Structure - (320)AP	24.00	3116.26	2.19	0.00	1.74	3116.26	2.19	0.00
25	Structure - (321)	24.00	3116.17	2.20	0.00	1.05	3116.17	2.20	0.00
26	Structure - (322)	24.00	3116.12	2.20	0.00	1.05	3116.12	2.20	0.00
27	Structure - (323)	24.00	3116.08	2.20	0.00	1.05	3116.08	2.20	0.00
28	Structure - (324)	24.00	3116.06	2.39	0.00	0.87	3116.06	2.39	0.00
29	Structure - (325)	24.00	3116.04	2.39	0.00	0.86	3116.04	2.39	0.00
30	Structure - (326)	24.00	3115.80	2.22	0.00	0.78	3115.80	2.22	0.00
31	Structure - (327)	24.00	3115.68	2.14	0.00	1.11	3115.68	2.14	0.00
32	Structure - (328)	24.00	3115.67	2.21	0.00	1.04	3115.67	2.21	0.00
33	Structure - (329)	24.00	3115.49	2.21	0.00	1.04	3115.49	2.21	0.00
34	Structure - (330)	24.00	3115.46	2.20	0.00	0.80	3115.46	2.20	0.00
35	Structure - (331)	24.00	3115.43	2.20	0.00	1.04	3115.43	2.20	0.00
36	Structure - (333)	24.00	3115.47	2.26	0.00	0.98	3115.47	2.26	0.00
37	Structure - (334)	24.00	3115.49	2.35	0.00	0.65	3115.49	2.35	0.00
38	Structure - (335)	24.00	3115.40	2.40	0.00	0.60	3115.40	2.40	0.00
39	Structure - (337)	24.00	3115.17	2.40	0.00	0.60	3115.17	2.40	0.00
40	Structure - (338)	24.00	3115.04	2.32	0.00	0.93	3115.04	2.32	0.00
41	Structure - (339)AP	24.00	3114.97	2.28	0.00	1.31	3114.97	2.28	0.00
42	Structure - (340)	24.00	3114.88	2.28	0.00	0.72	3114.88	2.28	0.00
43	Structure - (341)	24.00	3114.74	2.17	0.00	1.09	3114.74	2.17	0.00
44	Structure - (342)	24.00	3114.60	2.19	0.00	1.06	3114.60	2.19	0.00
45	Structure - (343)	24.00	3114.63	2.23	0.00	1.03	3114.63	2.23	0.00
46	Structure - (345)	24.00	3114.51	2.23	0.00	1.03	3114.51	2.23	0.00
47	Structure - (346)	24.00	3114.15	1.89	0.00	1.36	3114.15	1.89	0.00
48	Structure - (347)	24.00	3114.04	1.89	0.00	1.36	3114.04	1.89	0.00
49	Structure - (352)	24.00	3113.28	1.89	0.00	1.36	3113.28	1.89	0.00
50	Structure - (353)	24.00	3113.23	1.89	0.00	1.36	3113.23	1.89	0.00
51	Structure - (354)	24.00	3113.17	1.89	0.00	1.36	3113.17	1.89	0.00
52	Structure - (355)	24.00	3113.12	1.89	0.00	1.36	3113.12	1.89	0.00
53	Structure - (356)	24.00	3112.91	1.89	0.00	1.36	3112.91	1.89	0.00
54	Structure - (357)AP	24.00	3112.90	2.24	0.00	1.68	3112.90	2.24	0.00
55	Structure - (361)	24.00	3112.08	2.35	0.00	0.90	3112.08	2.35	0.00
56	Structure - (362)	24.00	3111.75	2.04	0.00	1.22	3111.75	2.04	0.00
57	Structure - (363)	24.00	3111.57	2.03	0.00	1.22	3111.57	2.03	0.00
58	Structure - (364)	24.00	3111.50	2.03	0.00	1.22	3111.50	2.03	0.00
59	Structure - (365)	24.00	3111.48	2.04	0.00	1.22	3111.48	2.04	0.00
60	Structure - (366)	24.00	3111.42	2.04	0.00	1.22	3111.42	2.04	0.00
61	Structure - (367)	24.00	3111.37	2.04	0.00	1.22	3111.37	2.04	0.00
62	Structure - (368)	24.00	3111.43	2.12	0.00	1.13	3111.43	2.12	0.00
63	Structure - (369)AP	24.00	3111.24	2.12	0.00	1.81	3111.24	2.12	0.00
64	Structure - (370)	24.00	3110.99	2.03	0.00	1.22	3110.99	2.03	0.00
65	Structure - (372)	24.00	3110.87	2.04	0.00	1.22	3110.87	2.04	0.00
66	Structure - (373)	24.00	3110.67	2.03	0.00	1.22	3110.67	2.03	0.00
67	Structure - (374)	24.00	3110.56	2.03	0.00	1.23	3110.56	2.03	0.00
68	Structure - (375)	24.00	3110.07	1.83	0.00	1.43	3110.07	1.83	0.00
69	Structure - (376)	24.00	3109.87	1.83	0.00	1.43	3109.87	1.83	0.00
70	Structure - (377)	24.00	3109.67	1.83	0.00	1.43	3109.67	1.83	0.00
71	Structure - (378)	24.00	3109.50	1.83	0.00	1.43	3109.50	1.83	0.00
72	Structure - (379)	24.00	3109.44	1.83	0.00	1.43	3109.44	1.83	0.00
73	Structure - (380)	24.00	3109.28	1.83	0.00	1.43	3109.28	1.83	0.00
74	Structure - (381)	24.00	3109.12	1.83	0.00	1.43	3109.12	1.83	0.00
75	Structure - (382)	24.00	3109.15	2.11	0.00	1.14	3109.15	2.11	0.00
76	Structure - (382)AP	24.00	3109.12	2.12	0.00	1.82	3109.12	2.12	0.00
77	Structure - (383)	24.00	3109.00	2.15	0.00	1.11	3109.00	2.15	0.00
78	Structure - (384)	24.00	3108.72	2.15	0.00	1.10	3108.72	2.15	0.00
79	Structure - (385)	24.00	3108.61	2.14	0.00	1.11	3108.61	2.14	0.00
80	Structure - (386)	24.00	3108.44	2.14	0.00	1.11	3108.44	2.14	0.00
81	Structure - (387)	24.00	3108.19	2.12	0.00	1.13	3108.19	2.12	0.00

# Junction Results

SN Element ID	Peak Inflow (cfs)	Max HGL Elevation (ft)	Max HGL Depth (ft)	Max Surchage Depth (ft)	Min Freeboard (ft)	Average HGL Elevation (ft)	Average HGL Depth (ft)	Total Flooded Volume (ac-in)
82 Structure - (388)	24.00	3108.16	2.17	0.00	1.09	3108.16	2.17	0.00
83 Structure - (389)	24.00	3108.05	2.17	0.00	1.08	3108.05	2.17	0.00
84 Structure - (390)	24.00	3107.93	2.13	0.00	1.12	3107.93	2.13	0.00
85 Structure - (391)	24.00	3107.71	2.12	0.00	1.13	3107.71	2.12	0.00
86 Structure - (391)AP	24.00	3107.68	2.12	0.00	1.84	3107.68	2.12	0.00
87 Structure - (392)	24.00	3107.55	2.19	0.00	1.07	3107.55	2.19	0.00
88 Structure - (393)	24.00	3107.48	2.19	0.00	1.06	3107.48	2.19	0.00
89 Structure - (394)	24.00	3107.41	2.15	0.00	1.11	3107.41	2.15	0.00
90 Structure - (395)	24.00	3107.41	2.19	0.00	1.07	3107.41	2.19	0.00
91 Structure - (396)	24.00	3107.34	2.19	0.00	1.06	3107.34	2.19	0.00
92 Structure - (397)	24.00	3107.26	2.17	0.00	0.83	3107.26	2.17	0.00
93 Structure - (398)	24.00	3107.23	2.16	0.00	1.09	3107.23	2.16	0.00
94 Structure - (399)	24.00	3107.21	2.16	0.00	1.09	3107.21	2.16	0.00
95 Structure - (400)	24.00	3107.10	2.13	0.00	1.13	3107.10	2.13	0.00
96 Structure - (401)	24.00	3106.56	2.13	0.00	1.13	3106.56	2.13	0.00
97 Structure - (401)AP	24.00	3106.17	2.13	0.00	1.79	3106.17	2.13	0.00
98 Structure - (402)	24.00	3106.12	2.14	0.00	1.12	3106.12	2.14	0.00
99 Structure - (403)	24.00	3105.74	1.81	0.00	1.44	3105.74	1.81	0.00
100 Structure - (404)	24.00	3105.58	1.76	0.00	1.50	3105.58	1.76	0.00
101 Structure - (405)	24.00	3104.96	1.79	0.00	1.47	3104.96	1.79	0.00
102 Structure - (406)	24.00	3104.92	1.79	0.00	1.47	3104.92	1.79	0.00
103 Structure - (407)	24.00	3104.81	1.77	0.00	1.48	3104.81	1.77	0.00
104 Structure - (408)	24.00	3104.67	1.76	0.00	1.49	3104.67	1.76	0.00
105 Structure - (409)	24.00	3104.48	1.76	0.00	1.49	3104.48	1.76	0.00
106 Structure - (409)TO	24.00	3104.33	1.86	0.00	2.91	3104.33	1.86	0.00
107 Structure - (410)	24.00	3104.35	1.93	0.00	1.33	3104.35	1.93	0.00
108 Structure - (411)	24.00	3104.16	1.93	0.00	1.33	3104.16	1.93	0.00
109 Structure - (412)	24.00	3104.08	1.91	0.00	1.35	3104.08	1.91	0.00
110 Structure - (413)	24.00	3103.59	1.91	0.00	1.34	3103.59	1.91	0.00
111 Structure - (414)	24.00	3103.38	1.91	0.00	1.34	3103.38	1.91	0.00
112 Structure - (415)	24.00	3103.24	1.91	0.00	1.34	3103.24	1.91	0.00
113 Structure - (416)	24.00	3102.95	1.91	0.00	1.34	3102.95	1.91	0.00
114 Structure - (417)	24.00	3102.56	1.91	0.00	1.34	3102.56	1.91	0.00
115 Structure - (418)	24.00	3102.23	1.91	0.00	1.34	3102.23	1.91	0.00
116 Structure - (419)	24.00	3101.90	1.91	0.00	1.34	3101.90	1.91	0.00
117 Structure - (420)	24.00	3101.75	1.91	0.00	1.34	3101.75	1.91	0.00
118 Structure - (420)AP	24.00	3101.61	1.99	0.00	1.95	3101.61	1.99	0.00
119 Structure - (421)	24.00	3101.46	1.98	0.00	1.27	3101.46	1.98	0.00
120 Structure - (422)	24.00	3101.38	2.02	0.00	1.24	3101.38	2.02	0.00
121 Structure - (423)	24.00	3101.29	2.02	0.00	1.23	3101.29	2.02	0.00
122 Structure - (424)	24.00	3101.17	1.99	0.00	1.27	3101.17	1.99	0.00
123 Structure - (425)	24.00	3100.74	1.99	0.00	1.27	3100.74	1.99	0.00
124 Structure - (426)	24.00	3100.44	1.99	0.00	1.26	3100.44	1.99	0.00
125 Structure - (427)	24.00	3100.41	1.99	0.00	1.26	3100.41	1.99	0.00
126 Structure - (428)	24.00	3100.36	1.99	0.00	1.27	3100.36	1.99	0.00
127 Structure - (429)	24.00	3100.33	1.99	0.00	1.27	3100.33	1.99	0.00
128 Structure - (430)	24.00	3100.26	1.99	0.00	1.27	3100.26	1.99	0.00
129 Structure - (431)	24.00	3100.17	2.05	0.00	1.21	3100.17	2.05	0.00
130 Structure - (432)	24.00	3099.98	2.05	0.00	1.21	3099.98	2.05	0.00
131 Structure - (433)	24.00	3099.84	1.94	0.00	1.31	3099.84	1.94	0.00
132 Structure - (434)AP	24.00	3099.65	1.97	0.00	2.55	3099.65	1.97	0.00
133 Structure - (435)	24.00	3099.51	2.00	0.00	1.26	3099.51	2.00	0.00
134 Structure - (436)	24.00	3099.34	2.00	0.00	1.26	3099.34	2.00	0.00
135 Structure - (437)	24.00	3099.26	1.99	0.00	1.27	3099.26	1.99	0.00
136 Structure - (438)	24.00	3099.17	2.02	0.00	1.24	3099.17	2.02	0.00
137 Structure - (439)	24.00	3099.03	2.02	0.00	1.23	3099.03	2.02	0.00
138 Structure - (440)	24.00	3098.74	1.99	0.00	1.26	3098.74	1.99	0.00
139 Structure - (441)	24.00	3098.52	1.97	0.00	1.29	3098.52	1.97	0.00
140 Structure - (442)	24.00	3098.39	1.99	0.00	1.27	3098.39	1.99	0.00
141 Structure - (443)	24.00	3098.33	2.03	0.00	1.23	3098.33	2.03	0.00
142 Structure - (444)	24.00	3098.14	2.03	0.00	0.97	3098.14	2.03	0.00
143 Structure - (445)	24.00	3097.96	1.99	0.00	1.26	3097.96	1.99	0.00
144 Structure - (447)	24.00	3097.89	1.99	0.00	1.26	3097.89	1.99	0.00
145 Structure - (447)AP	24.00	3097.68	1.90	0.00	2.03	3097.68	1.90	0.00
146 Structure - (448)	24.00	3097.35	1.84	0.00	1.42	3097.35	1.84	0.00
147 Structure - (449)	24.00	3097.09	1.84	0.00	1.41	3097.09	1.84	0.00
148 Structure - (450)	24.00	3096.70	1.83	0.00	1.42	3096.70	1.83	0.00
149 Structure - (451)	24.00	3096.68	1.86	0.00	1.40	3096.68	1.86	0.00
150 Structure - (452)	24.00	3096.56	1.86	0.00	1.40	3096.56	1.86	0.00
151 Structure - (453)	24.00	3096.51	1.86	0.00	1.40	3096.51	1.86	0.00
152 Structure - (454)	24.00	3096.35	1.86	0.00	1.39	3096.35	1.86	0.00
153 Structure - (455)	24.00	3095.93	1.86	0.00	1.40	3095.93	1.86	0.00
154 Structure - (455)AP	24.00	3095.77	1.86	0.00	2.07	3095.77	1.86	0.00
155 Structure - (456)	24.00	3095.30	1.96	0.00	1.29	3095.30	1.96	0.00
156 Structure - (457)	24.00	3095.13	1.96	0.00	1.30	3095.13	1.96	0.00
157 Structure - (458)	24.00	3094.66	1.85	0.00	1.41	3094.66	1.85	0.00
158 Structure - (597)	24.00	3114.03	1.89	0.00	1.36	3114.03	1.89	0.00
159 Structure - (598)	24.00	3113.89	1.89	0.00	1.36	3113.89	1.89	0.00
160 Structure - (599)	24.00	3113.70	1.90	0.00	1.35	3113.70	1.90	0.00
161 Structure - (600)	24.00	3113.71	1.91	0.00	1.35	3113.71	1.91	0.00
162 Structure - (601)	24.00	3112.74	2.26	0.00	1.00	3112.74	2.26	0.00

## Junction Results

SN Element ID	Peak Inflow	Max HGL Elevation Attained	Max HGL Depth Attained	Max Surcharge Depth Attained	Min Freeboard Attained	Average HGL Elevation Attained	Average HGL Depth Attained	Total Flooded Volume
	(cfs)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ac-in)
163 Structure - (602)	24.00	3112.60	2.26	0.00	1.00	3112.60	2.26	0.00
164 Structure - (603)	24.00	3112.12	1.80	0.00	1.45	3112.12	1.80	0.00
165 Structure - (604)	24.00	3111.96	1.74	0.00	1.52	3111.96	1.74	0.00
166 Structure - (605)	24.00	3111.65	1.74	0.00	1.52	3111.65	1.74	0.00
167 Structure - (606)	24.00	3111.64	1.78	0.00	1.48	3111.64	1.78	0.00
168 Structure - (607)	24.00	3112.19	2.38	0.00	0.87	3112.19	2.38	0.00
169 Structure - (608)	24.00	3112.18	2.38	0.00	0.87	3112.18	2.38	0.00

# Pipe Input

SN Element ID	Length (ft)	Inlet Invert Elevation (ft)	Outlet Invert Elevation (ft)	Average Slope (%)	Pipe Diameter or Height (in)	Manning's Roughness	Entrance Losses	Exit/Bend Losses	Initial Flow (cfs)
1 Pipe - (289)	64.66	3116.56	3116.48	0.1200	36.000	0.0120	0.6000	0.6000	0.00
2 Pipe - (290)	20.80	3116.48	3116.45	0.1400	36.000	0.0120	0.6000	0.6000	0.00
3 Pipe - (291)	9.45	3116.45	3116.43	0.2100	36.000	0.0120	0.6000	0.6000	0.00
4 Pipe - (292)	24.87	3116.43	3116.39	0.1600	36.000	0.0120	0.6000	0.6000	0.00
5 Pipe - (293)	39.24	3116.39	3116.34	0.1300	36.000	0.0120	0.6000	0.6000	0.00
6 Pipe - (294)	52.28	3116.34	3116.27	0.1300	36.000	0.0120	0.6000	0.6000	0.00
7 Pipe - (295)	54.61	3116.27	3116.19	0.1500	36.000	0.0120	0.6000	0.6000	0.00
8 Pipe - (296)	41.97	3116.19	3116.12	0.1700	36.000	0.0120	0.6000	0.6000	0.00
9 Pipe - (297)	85.32	3116.12	3116.00	0.1400	36.000	0.0120	0.6000	0.6000	0.00
10 Pipe - (298)	68.75	3116.00	3115.90	0.1500	36.000	0.0120	0.6000	0.6000	0.00
11 Pipe - (299)	126.57	3115.90	3115.72	0.1400	36.000	0.0120	0.6000	0.6000	0.00
12 Pipe - (300)	146.10	3115.72	3115.50	0.1500	36.000	0.0120	0.6000	0.6000	0.00
13 Pipe - (301)	276.86	3115.50	3115.10	0.1400	36.000	0.0120	0.6000	0.6000	0.00
14 Pipe - (302)	106.58	3115.10	3114.95	0.1400	36.000	0.0120	0.6000	0.6000	0.00
15 Pipe - (303)	99.85	3114.95	3114.80	0.1500	36.000	0.0120	0.6000	0.6000	0.00
16 Pipe - (304)	49.29	3114.80	3114.74	0.1200	36.000	0.0120	0.6000	0.6000	0.00
17 Pipe - (305)	18.11	3114.74	3114.71	0.1700	36.000	0.0120	0.6000	0.6000	0.00
18 Pipe - (306)	26.00	3114.71	3114.67	0.1500	36.000	0.0120	0.6000	0.6000	0.00
19 Pipe - (307)	92.07	3114.67	3114.53	0.1500	36.000	0.0120	0.6000	0.6000	0.00
20 Pipe - (308)	43.64	3114.53	3114.47	0.1400	36.000	0.0120	0.6000	0.6000	0.00
21 Pipe - (309)	104.45	3114.47	3114.32	0.1400	36.000	0.0120	0.6000	0.6000	0.00
22 Pipe - (310)	66.88	3114.32	3114.22	0.1500	36.000	0.0120	0.6000	0.6000	0.00
23 Pipe - (311)	105.90	3114.22	3114.07	0.1400	36.000	0.0120	0.6000	0.6000	0.00
24 Pipe - (311) (1)	67.15	3114.07	3113.97	0.1500	36.000	0.0120	0.6000	0.6000	0.00
25 Pipe - (312)	35.77	3113.97	3113.92	0.1400	36.000	0.0120	0.6000	0.6000	0.00
26 Pipe - (313)	28.54	3113.92	3113.88	0.1400	36.000	0.0120	0.6000	0.6000	0.00
27 Pipe - (314)	138.98	3113.88	3113.67	0.1500	36.000	0.0120	0.6000	0.6000	0.00
28 Pipe - (315)	17.18	3113.67	3113.65	0.1200	36.000	0.0120	0.6000	0.6000	0.00
29 Pipe - (316)	51.12	3113.65	3113.58	0.1400	36.000	0.0120	0.6000	0.6000	0.00
30 Pipe - (317)	26.34	3113.58	3113.54	0.1500	36.000	0.0120	0.6000	0.6000	0.00
31 Pipe - (318)	53.54	3113.54	3113.46	0.1500	36.000	0.0120	0.6000	0.6000	0.00
32 Pipe - (319)	129.76	3113.46	3113.28	0.1400	36.000	0.0120	0.6000	0.6000	0.00
33 Pipe - (320)	13.67	3113.28	3113.26	0.1500	36.000	0.0120	0.6000	0.6000	0.00
34 Pipe - (321)	21.38	3113.26	3113.23	0.1400	36.000	0.0120	0.6000	0.6000	0.00
35 Pipe - (322)	13.67	3113.23	3113.21	0.1500	36.000	0.0120	0.6000	0.6000	0.00
36 Pipe - (323)	53.05	3113.21	3113.14	0.1300	36.000	0.0120	0.6000	0.6000	0.00
37 Pipe - (324)	115.56	3113.14	3113.00	0.1200	36.000	0.0120	0.6000	0.6000	0.00
38 Pipe - (325)	199.45	3113.00	3112.77	0.1200	36.000	0.0120	0.6000	0.6000	0.00
39 Pipe - (326)	40.39	3112.77	3112.72	0.1200	36.000	0.0120	0.6000	0.6000	0.00
40 Pipe - (327)	16.89	3112.72	3112.69	0.1800	36.000	0.0120	0.6000	0.6000	0.00
41 Pipe - (328)	70.01	3112.69	3112.60	0.1300	36.000	0.0120	0.6000	0.6000	0.00
42 Pipe - (329)	19.64	3112.60	3112.57	0.1500	36.000	0.0120	0.6000	0.6000	0.00
43 Pipe - (330)	112.40	3112.57	3112.41	0.1500	36.000	0.0120	0.6000	0.6000	0.00
44 Pipe - (331)	4.83	3112.41	3112.40	0.1400	36.000	0.0120	0.6000	0.6000	0.00
45 Pipe - (331) WoodtoHDPE	88.06	3112.40	3112.28	0.1400	36.000	0.0120	0.6000	0.6000	0.00
46 Pipe - (332)	8.85	3112.28	3112.26	0.2300	36.000	0.0120	0.6000	0.6000	0.00
47 Pipe - (333)	51.99	3112.26	3112.15	0.2100	36.000	0.0120	0.6000	0.6000	0.00
48 Pipe - (334)	5.05	3112.15	3112.14	0.2100	36.000	0.0120	0.6000	0.6000	0.00
49 Pipe - (335) CMPtoHDPE	67.52	3112.14	3112.00	0.2100	36.000	0.0120	0.6000	0.6000	0.00
50 Pipe - (336) CMPtoHDPE	91.69	3112.00	3111.80	0.2100	36.000	0.0120	0.6000	0.6000	0.00
51 Pipe - (337)	2.49	3111.80	3111.80	0.2100	36.000	0.0120	0.6000	0.6000	0.00
52 Pipe - (338)	192.72	3111.80	3111.39	0.2100	36.000	0.0120	0.6000	0.6000	0.00
53 Pipe - (339)	22.82	3111.39	3111.34	0.2100	36.000	0.0120	0.6000	0.6000	0.00
54 Pipe - (340)	32.15	3111.34	3111.28	0.2100	36.000	0.0120	0.6000	0.6000	0.00
55 Pipe - (341)	23.80	3111.28	3111.23	0.2100	36.000	0.0120	0.6000	0.6000	0.00
56 Pipe - (342)	99.48	3111.23	3111.02	0.2100	36.000	0.0120	0.6000	0.6000	0.00
57 Pipe - (343)	168.35	3111.02	3110.66	0.2100	36.000	0.0120	0.6000	0.6000	0.00
58 Pipe - (344)	134.68	3110.66	3110.48	0.1300	36.000	0.0120	0.6000	0.6000	0.00
59 Pipe - (345)	106.80	3110.48	3110.34	0.1300	36.000	0.0120	0.6000	0.6000	0.00
60 Pipe - (346)	8.23	3110.34	3110.32	0.2400	36.000	0.0120	0.6000	0.6000	0.00
61 Pipe - (346) WoodtoHDPE1	35.57	3110.32	3110.22	0.2800	36.000	0.0120	0.6000	0.6000	0.00
62 Pipe - (346) WoodtoHDPE2	111.68	3110.22	3109.91	0.2700	36.000	0.0120	0.6000	0.6000	0.00
63 Pipe - (346) WoodtoHDPE3	18.93	3109.91	3109.86	0.2700	36.000	0.0120	0.6000	0.6000	0.00
64 Pipe - (346) WoodtoHDPE4	20.57	3109.86	3109.81	0.2500	36.000	0.0120	0.6000	0.6000	0.00
65 Pipe - (346) WoodtoHDPE5	6.08	3109.81	3109.80	0.1200	36.000	0.0120	0.6000	0.6000	0.00
66 Pipe - (346) WoodtoHDPE6	61.41	3109.80	3109.73	0.1200	36.000	0.0120	0.6000	0.6000	0.00
67 Pipe - (347)	10.25	3109.73	3109.71	0.1700	36.000	0.0120	0.6000	0.6000	0.00
68 Pipe - (348)	101.96	3109.71	3109.54	0.1700	36.000	0.0120	0.6000	0.6000	0.00
69 Pipe - (349)	39.55	3109.54	3109.47	0.1700	36.000	0.0120	0.6000	0.6000	0.00
70 Pipe - (350)	13.69	3109.47	3109.44	0.1700	36.000	0.0120	0.6000	0.6000	0.00
71 Pipe - (351)	34.74	3109.44	3109.38	0.1700	36.000	0.0120	0.6000	0.6000	0.00
72 Pipe - (352)	31.03	3109.38	3109.33	0.1700	36.000	0.0120	0.6000	0.6000	0.00
73 Pipe - (353)	13.06	3109.33	3109.31	0.1800	36.000	0.0120	0.6000	0.6000	0.00
74 Pipe - (355)	79.65	3109.12	3108.96	0.2000	36.000	0.0120	0.6000	0.6000	0.00
75 Pipe - (357)	122.66	3109.31	3109.12	0.1500	36.000	0.0120	0.6000	0.6000	0.00
76 Pipe - (358)	73.98	3108.96	3108.83	0.1700	36.000	0.0120	0.6000	0.6000	0.00
77 Pipe - (359)	115.36	3108.83	3108.64	0.1700	36.000	0.0120	0.6000	0.6000	0.00
78 Pipe - (360)	61.43	3108.64	3108.53	0.1700	36.000	0.0120	0.6000	0.6000	0.00
79 Pipe - (360) WoodtoHDPE	84.04	3108.53	3108.24	0.3500	36.000	0.0120	0.6000	0.6000	0.00
80 Pipe - (361)	86.77	3108.24	3108.04	0.2300	36.000	0.0120	0.6000	0.6000	0.00
81 Pipe - (362)	83.89	3108.04	3107.84	0.2300	36.000	0.0120	0.6000	0.6000	0.00
82 Pipe - (363)	71.93	3107.84	3107.67	0.2300	36.000	0.0120	0.6000	0.6000	0.00



# Pipe Input

SN Element ID	Length (ft)	Inlet Invert Elevation (ft)	Outlet Invert Elevation (ft)	Average Slope (%)	Pipe Diameter or Height (in)	Manning's Roughness	Entrance Losses	Exit/Bend Losses	Initial Flow (cfs)
83 Pipe - (364)	25.07	3107.67	3107.61	0.2300	36.000	0.0120	0.6000	0.6000	0.00
84 Pipe - (365)	70.07	3107.61	3107.45	0.2300	36.000	0.0120	0.6000	0.6000	0.00
85 Pipe - (366)	69.93	3107.45	3107.29	0.2300	36.000	0.0120	0.6000	0.6000	0.00
86 Pipe - (367)	98.43	3107.29	3107.04	0.2500	36.000	0.0120	0.6000	0.6000	0.00
87 Pipe - (368)	24.15	3107.04	3107.00	0.1600	36.000	0.0120	0.6000	0.6000	0.00
88 Pipe - (368) (1)	98.36	3107.00	3106.85	0.1600	36.000	0.0120	0.6000	0.6000	0.00
89 Pipe - (369)	189.13	3106.85	3106.57	0.1500	36.000	0.0120	0.6000	0.6000	0.00
90 Pipe - (370)	64.36	3106.57	3106.47	0.1600	36.000	0.0120	0.6000	0.6000	0.00
91 Pipe - (371)	113.30	3106.47	3106.30	0.1500	36.000	0.0120	0.6000	0.6000	0.00
92 Pipe - (372)	149.83	3106.30	3106.07	0.1500	36.000	0.0120	0.6000	0.6000	0.00
93 Pipe - (374)	49.25	3106.07	3105.99	0.1600	36.000	0.0120	0.6000	0.6000	0.00
94 Pipe - (375)	76.15	3105.99	3105.88	0.1400	36.000	0.0120	0.6000	0.6000	0.00
95 Pipe - (376)	52.60	3105.88	3105.80	0.1500	36.000	0.0120	0.6000	0.6000	0.00
96 Pipe - (377)	136.49	3105.80	3105.59	0.1500	36.000	0.0120	0.6000	0.6000	0.00
97 Pipe - (378)	20.36	3105.59	3105.56	0.1500	36.000	0.0120	0.6000	0.6000	0.00
98 Pipe - (378) (1)	127.99	3105.56	3105.36	0.1600	36.000	0.0120	0.6000	0.6000	0.00
99 Pipe - (379)	49.35	3105.36	3105.29	0.1400	36.000	0.0120	0.6000	0.6000	0.00
100 Pipe - (380)	17.07	3105.29	3105.26	0.1800	36.000	0.0120	0.6000	0.6000	0.00
101 Pipe - (381)	26.88	3105.26	3105.22	0.1500	36.000	0.0120	0.6000	0.6000	0.00
102 Pipe - (382)	49.52	3105.22	3105.15	0.1400	36.000	0.0120	0.6000	0.6000	0.00
103 Pipe - (383)	41.50	3105.15	3105.09	0.1400	36.000	0.0120	0.6000	0.6000	0.00
104 Pipe - (384)	10.53	3105.09	3105.07	0.1900	36.000	0.0120	0.6000	0.6000	0.00
105 Pipe - (385)	13.68	3105.07	3105.05	0.1500	36.000	0.0120	0.6000	0.6000	0.00
106 Pipe - (386)	47.87	3105.05	3104.97	0.1700	36.000	0.0120	0.6000	0.6000	0.00
107 Pipe - (387)	354.58	3104.97	3104.43	0.1500	36.000	0.0120	0.6000	0.6000	0.00
108 Pipe - (388)	260.90	3104.43	3104.04	0.1500	36.000	0.0120	0.6000	0.6000	0.00
109 Pipe - (388) (1)	36.70	3104.04	3103.98	0.1500	36.000	0.0120	0.6000	0.6000	0.00
110 Pipe - (389)	20.88	3103.98	3103.93	0.2400	36.000	0.0120	0.6000	0.6000	0.00
111 Pipe - (390)	39.71	3103.93	3103.82	0.2800	36.000	0.0120	0.6000	0.6000	0.00
112 Pipe - (391)	245.90	3103.82	3103.17	0.2600	36.000	0.0120	0.6000	0.6000	0.00
113 Pipe - (392)	15.92	3103.17	3103.13	0.2500	36.000	0.0120	0.6000	0.6000	0.00
114 Pipe - (393)	35.04	3103.13	3103.04	0.2600	36.000	0.0120	0.6000	0.6000	0.00
115 Pipe - (394)	49.11	3103.04	3102.91	0.2600	36.000	0.0120	0.6000	0.6000	0.00
116 Pipe - (395)	72.35	3102.91	3102.72	0.2600	36.000	0.0120	0.6000	0.6000	0.00
117 Pipe - (396)	91.47	3102.72	3102.47	0.2700	36.000	0.0120	0.6000	0.6000	0.00
118 Pipe - (396) (1)	22.25	3102.47	3102.42	0.2200	36.000	0.0120	0.6000	0.6000	0.00
119 Pipe - (397)	93.62	3102.42	3102.23	0.2000	36.000	0.0120	0.6000	0.6000	0.00
120 Pipe - (398)	29.75	3102.23	3102.17	0.2100	36.000	0.0120	0.6000	0.6000	0.00
121 Pipe - (399)	242.85	3102.17	3101.68	0.2000	36.000	0.0120	0.6000	0.6000	0.00
122 Pipe - (400)	103.02	3101.68	3101.47	0.2000	36.000	0.0120	0.6000	0.6000	0.00
123 Pipe - (401)	65.85	3101.47	3101.33	0.2000	36.000	0.0120	0.6000	0.6000	0.00
124 Pipe - (402)	143.47	3101.33	3101.04	0.2000	36.000	0.0120	0.6000	0.6000	0.00
125 Pipe - (403)	188.81	3101.04	3100.65	0.2000	36.000	0.0120	0.6000	0.6000	0.00
126 Pipe - (404)	160.72	3100.65	3100.32	0.2000	36.000	0.0120	0.6000	0.6000	0.00
127 Pipe - (405)	160.80	3100.32	3099.99	0.2000	36.000	0.0120	0.6000	0.6000	0.00
128 Pipe - (406)	76.37	3099.99	3099.84	0.2000	36.000	0.0120	0.6000	0.6000	0.00
129 Pipe - (407)	105.30	3099.84	3099.62	0.2000	36.000	0.0120	0.6000	0.6000	0.00
130 Pipe - (407) (1)	77.31	3099.62	3099.48	0.1800	36.000	0.0120	0.6000	0.6000	0.00
131 Pipe - (408)	65.13	3099.48	3099.36	0.1800	36.000	0.0120	0.6000	0.6000	0.00
132 Pipe - (409)	51.84	3099.36	3099.27	0.1700	36.000	0.0120	0.6000	0.6000	0.00
133 Pipe - (410)	47.78	3099.27	3099.18	0.1900	36.000	0.0120	0.6000	0.6000	0.00
134 Pipe - (411)	234.09	3099.18	3098.75	0.1800	36.000	0.0120	0.6000	0.6000	0.00
135 Pipe - (412)	167.96	3098.75	3098.45	0.1800	36.000	0.0120	0.6000	0.6000	0.00
136 Pipe - (413)	12.21	3098.45	3098.42	0.1800	36.000	0.0120	0.6000	0.6000	0.00
137 Pipe - (414)	30.34	3098.42	3098.37	0.1800	36.000	0.0120	0.6000	0.6000	0.00
138 Pipe - (415)	13.70	3098.37	3098.34	0.1800	36.000	0.0120	0.6000	0.6000	0.00
139 Pipe - (416)	41.46	3098.34	3098.27	0.1800	36.000	0.0120	0.6000	0.6000	0.00
140 Pipe - (417)	78.41	3098.27	3098.12	0.1800	36.000	0.0120	0.6000	0.6000	0.00
141 Pipe - (418)	114.69	3098.12	3097.93	0.1700	36.000	0.0120	0.6000	0.6000	0.00
142 Pipe - (419)	15.35	3097.93	3097.90	0.2000	36.000	0.0120	0.6000	0.6000	0.00
143 Pipe - (420)	113.09	3097.90	3097.68	0.1900	36.000	0.0120	0.6000	0.6000	0.00
144 Pipe - (421)	90.83	3097.68	3097.51	0.1900	36.000	0.0120	0.6000	0.6000	0.00
145 Pipe - (422)	94.96	3097.51	3097.34	0.1800	36.000	0.0120	0.6000	0.6000	0.00
146 Pipe - (423)	38.37	3097.34	3097.27	0.1800	36.000	0.0120	0.6000	0.6000	0.00
147 Pipe - (424)	64.95	3097.27	3097.15	0.1800	36.000	0.0120	0.6000	0.6000	0.00
148 Pipe - (425)	79.93	3097.15	3097.01	0.1800	36.000	0.0120	0.6000	0.6000	0.00
149 Pipe - (426)	142.22	3097.01	3096.75	0.1800	36.000	0.0120	0.6000	0.6000	0.00
150 Pipe - (427)	107.42	3096.75	3096.55	0.1900	36.000	0.0120	0.6000	0.6000	0.00
151 Pipe - (428)	80.57	3096.55	3096.40	0.1900	36.000	0.0120	0.6000	0.6000	0.00
152 Pipe - (429)	55.21	3096.40	3096.30	0.1800	36.000	0.0120	0.6000	0.6000	0.00
153 Pipe - (430)	109.77	3096.30	3096.10	0.1800	36.000	0.0120	0.6000	0.6000	0.00
154 Pipe - (431)	75.07	3096.11	3095.97	0.1900	36.000	0.0120	0.6000	0.6000	0.00
155 Pipe - (432)	38.61	3095.97	3095.90	0.1800	36.000	0.0120	0.6000	0.6000	0.00
156 Pipe - (434)	58.51	3095.90	3095.78	0.2100	36.000	0.0120	0.6000	0.6000	0.00
157 Pipe - (434) (1)	108.21	3095.78	3095.51	0.2500	36.000	0.0120	0.6000	0.6000	0.00
158 Pipe - (435)	113.18	3095.51	3095.25	0.2300	36.000	0.0120	0.6000	0.6000	0.00
159 Pipe - (436)	163.76	3095.25	3094.87	0.2300	36.000	0.0120	0.6000	0.6000	0.00
160 Pipe - (437)	18.39	3094.87	3094.82	0.2700	36.000	0.0120	0.6000	0.6000	0.00
161 Pipe - (438)	53.75	3094.82	3094.70	0.2200	36.000	0.0120	0.6000	0.6000	0.00
162 Pipe - (439)	19.62	3094.70	3094.65	0.2500	36.000	0.0120	0.6000	0.6000	0.00
163 Pipe - (440)	72.14	3094.65	3094.49	0.2200	36.000	0.0120	0.6000	0.6000	0.00
164 Pipe - (441)	179.23	3094.49	3094.07	0.2300	36.000	0.0120	0.6000	0.6000	0.00

## Pipe Input

SN Element ID	Length	Inlet Invert Elevation (ft)	Outlet Invert Elevation (ft)	Average Slope (%)	Pipe Diameter or Height (in)	Manning's Roughness	Entrance Losses	Exit/Bend Losses	Initial Flow (cfs)
165 Pipe - (442)	71.71	3094.07	3093.91	0.2200	36.000	0.0120	0.6000	0.6000	0.00
166 Pipe - (442) (1)	242.44	3093.91	3093.34	0.2400	36.000	0.0120	0.6000	0.6000	0.00
167 Pipe - (443)	88.84	3093.34	3093.17	0.1900	36.000	0.0120	0.6000	0.6000	0.00
168 Pipe - (444)	136.52	3093.17	3092.81	0.2600	36.000	0.0120	0.6000	0.6000	0.00
169 Pipe - (445)	26.85	3092.81	3092.75	0.2200	36.000	0.0120	0.6000	0.6000	0.00

# Pipe Results

SN Element ID	Peak Flow	Design Flow Capacity	Peak Flow/Design Flow Ratio	Peak Flow Velocity	Travel Time	Peak Flow Depth	Peak Flow Depth/Total Depth Ratio	Froude Number	Reported Condition
	(cfs)	(cfs)		(ft/sec)	(min)	(ft)			
1 Pipe - (289)	24.00	25.53	0.94	4.10	0.26	2.31	0.77		Calculated
2 Pipe - (290)	24.00	27.44	0.87	4.37	0.08	2.17	0.72		Calculated
3 Pipe - (291)	24.00	33.24	0.72	5.12	0.03	1.89	0.63		Calculated
4 Pipe - (292)	24.00	28.98	0.83	4.58	0.09	2.08	0.69		Calculated
5 Pipe - (293)	24.00	25.79	0.93	4.14	0.16	2.29	0.76		Calculated
6 Pipe - (294)	24.00	26.44	0.91	4.23	0.21	2.24	0.75		Calculated
7 Pipe - (295)	24.00	27.66	0.87	4.40	0.21	2.16	0.72		Calculated
8 Pipe - (296)	24.00	29.51	0.81	4.65	0.15	2.06	0.69		Calculated
9 Pipe - (297)	24.00	27.10	0.89	4.33	0.33	2.20	0.73		Calculated
10 Pipe - (298)	24.00	27.56	0.87	4.39	0.26	2.17	0.72		Calculated
11 Pipe - (299)	24.00	27.25	0.88	4.35	0.48	2.19	0.73		Calculated
12 Pipe - (300)	24.00	28.04	0.86	4.46	0.55	2.14	0.71		Calculated
13 Pipe - (301)	24.00	27.46	0.87	4.38	1.05	2.17	0.72		Calculated
14 Pipe - (302)	24.00	27.11	0.89	4.33	0.41	2.20	0.73		Calculated
15 Pipe - (303)	24.00	28.01	0.86	4.45	0.37	2.14	0.71		Calculated
16 Pipe - (304)	24.00	25.21	0.95	4.06	0.20	2.34	0.78		Calculated
17 Pipe - (305)	24.00	29.41	0.82	4.64	0.07	2.06	0.69		Calculated
18 Pipe - (306)	24.00	28.34	0.85	4.50	0.10	2.12	0.71		Calculated
19 Pipe - (307)	24.00	28.18	0.85	4.47	0.34	2.13	0.71		Calculated
20 Pipe - (308)	24.00	26.79	0.90	4.28	0.17	2.22	0.74		Calculated
21 Pipe - (309)	24.00	27.38	0.88	4.37	0.40	2.18	0.73		Calculated
22 Pipe - (310)	24.00	27.94	0.86	4.44	0.25	2.14	0.71		Calculated
23 Pipe - (311)	24.00	27.19	0.88	4.34	0.41	2.19	0.73		Calculated
24 Pipe - (311) (1)	24.00	27.88	0.86	4.43	0.25	2.15	0.72		Calculated
25 Pipe - (312)	24.00	27.01	0.89	4.31	0.14	2.20	0.73		Calculated
26 Pipe - (313)	24.00	27.05	0.89	4.32	0.11	2.20	0.73		Calculated
27 Pipe - (314)	24.00	28.09	0.85	4.46	0.52	2.13	0.71		Calculated
28 Pipe - (315)	24.00	24.65	0.97	3.97	0.07	2.39	0.80		Calculated
29 Pipe - (316)	24.00	26.74	0.90	4.28	0.20	2.22	0.74		Calculated
30 Pipe - (317)	24.00	28.16	0.85	4.47	0.10	2.13	0.71		Calculated
31 Pipe - (318)	24.00	27.93	0.86	4.44	0.20	2.14	0.71		Calculated
32 Pipe - (319)	24.00	26.91	0.89	4.30	0.50	2.21	0.74		Calculated
33 Pipe - (320)	24.00	27.64	0.87	4.40	0.05	2.16	0.72		Calculated
34 Pipe - (321)	24.00	27.07	0.89	4.32	0.08	2.20	0.73		Calculated
35 Pipe - (322)	24.00	27.63	0.87	4.40	0.05	2.16	0.72		Calculated
36 Pipe - (323)	24.00	26.25	0.91	4.21	0.21	2.26	0.75		Calculated
37 Pipe - (324)	24.00	25.15	0.95	4.05	0.48	2.35	0.78		Calculated
38 Pipe - (325)	24.00	24.54	0.98	3.95	0.84	2.40	0.80		Calculated
39 Pipe - (326)	24.00	25.42	0.94	4.09	0.16	2.32	0.77		Calculated
40 Pipe - (327)	24.00	30.45	0.79	4.77	0.06	2.01	0.67		Calculated
41 Pipe - (328)	24.00	25.91	0.93	4.16	0.28	2.28	0.76		Calculated
42 Pipe - (329)	24.00	28.24	0.85	4.48	0.07	2.13	0.71		Calculated
43 Pipe - (330)	24.00	27.53	0.87	4.39	0.43	2.17	0.72		Calculated
44 Pipe - (331)	24.00	27.09	0.89	4.33	0.02	2.20	0.73		Calculated
45 Pipe - (331)WoodtoHDPE	24.00	26.67	0.90	4.27	0.34	2.23	0.74		Calculated
46 Pipe - (332)	24.00	34.29	0.70	5.25	0.03	1.85	0.62		Calculated
47 Pipe - (333)	24.00	33.20	0.72	5.12	0.17	1.89	0.63		Calculated
48 Pipe - (334)	24.00	33.13	0.72	5.11	0.02	1.89	0.63		Calculated
49 Pipe - (335)CMPtoHDPE	24.00	33.20	0.72	5.12	0.22	1.89	0.63		Calculated
50 Pipe - (336)CMPtoHDPE	24.00	33.20	0.72	5.12	0.30	1.89	0.63		Calculated
51 Pipe - (337)	24.00	32.81	0.73	5.07	0.01	1.91	0.64		Calculated
52 Pipe - (338)	24.00	33.20	0.72	5.12	0.63	1.89	0.63		Calculated
53 Pipe - (339)	24.00	33.20	0.72	5.12	0.07	1.89	0.63		Calculated
54 Pipe - (340)	24.00	33.24	0.72	5.12	0.10	1.89	0.63		Calculated
55 Pipe - (341)	24.00	33.14	0.72	5.11	0.08	1.89	0.63		Calculated
56 Pipe - (342)	24.00	33.20	0.72	5.12	0.32	1.89	0.63		Calculated
57 Pipe - (343)	24.00	33.20	0.72	5.12	0.55	1.89	0.63		Calculated
58 Pipe - (344)	24.00	26.42	0.91	4.23	0.53	2.24	0.75		Calculated
59 Pipe - (345)	24.00	26.16	0.92	4.20	0.42	2.26	0.75		Calculated
60 Pipe - (346)	24.00	35.61	0.67	5.40	0.03	1.80	0.60		Calculated
61 Pipe - (346)WoodtoHDPE1	24.00	38.26	0.63	5.71	0.10	1.72	0.57		Calculated
62 Pipe - (346)WoodtoHDPE2	24.00	37.81	0.63	5.66	0.33	1.74	0.58		Calculated
63 Pipe - (346)WoodtoHDPE3	24.00	37.89	0.63	5.67	0.06	1.73	0.58		Calculated
64 Pipe - (346)WoodtoHDPE4	24.00	36.48	0.66	5.50	0.06	1.78	0.59		Calculated
65 Pipe - (346)WoodtoHDPE5	24.00	24.77	0.97	3.99	0.03	2.38	0.79		Calculated
66 Pipe - (346)WoodtoHDPE6	24.00	25.06	0.96	4.03	0.25	2.35	0.78		Calculated
67 Pipe - (347)	24.00	29.85	0.80	4.69	0.04	2.04	0.68		Calculated
68 Pipe - (348)	24.00	29.99	0.80	4.71	0.36	2.03	0.68		Calculated
69 Pipe - (349)	24.00	29.88	0.80	4.70	0.14	2.04	0.68		Calculated
70 Pipe - (350)	24.00	29.94	0.80	4.71	0.05	2.03	0.68		Calculated
71 Pipe - (351)	24.00	30.05	0.80	4.72	0.12	2.03	0.68		Calculated
72 Pipe - (352)	24.00	29.90	0.80	4.70	0.11	2.04	0.68		Calculated
73 Pipe - (353)	24.00	30.36	0.79	4.76	0.05	2.01	0.67		Calculated
74 Pipe - (355)	24.00	32.32	0.74	5.01	0.26	1.93	0.64		Calculated
75 Pipe - (357)	24.00	28.30	0.85	4.49	0.46	2.12	0.71		Calculated
76 Pipe - (358)	24.00	29.94	0.80	4.71	0.26	2.03	0.68		Calculated
77 Pipe - (359)	24.00	29.94	0.80	4.71	0.41	2.03	0.68		Calculated
78 Pipe - (360)	24.00	30.00	0.80	4.71	0.22	2.03	0.68		Calculated
79 Pipe - (360)WoodtoHDPE	24.00	42.44	0.57	6.19	0.23	1.62	0.54		Calculated
80 Pipe - (361)	24.00	34.92	0.69	5.32	0.27	1.83	0.61		Calculated
81 Pipe - (362)	24.00	34.89	0.69	5.32	0.26	1.83	0.61		Calculated

# Pipe Results

SN Element ID	Peak Flow	Design Flow Capacity	Peak Flow/Design Flow Ratio	Peak Flow Velocity	Travel Time	Peak Flow Depth	Peak Flow Depth/Total Depth Ratio	Froude Number	Reported Condition
	(cfs)	(cfs)		(ft/sec)	(min)	(ft)			
82 Pipe - (363)	24.00	34.98	0.69	5.33	0.22	1.83	0.61		Calculated
83 Pipe - (364)	24.00	34.91	0.69	5.32	0.08	1.83	0.61		Calculated
84 Pipe - (365)	24.00	34.93	0.69	5.32	0.22	1.83	0.61		Calculated
85 Pipe - (366)	24.00	34.92	0.69	5.32	0.22	1.83	0.61		Calculated
86 Pipe - (367)	24.00	36.24	0.66	5.48	0.30	1.78	0.59		Calculated
87 Pipe - (368)	24.00	28.46	0.84	4.51	0.09	2.11	0.70		Calculated
88 Pipe - (368) (1)	24.00	28.46	0.84	4.51	0.36	2.11	0.70		Calculated
89 Pipe - (369)	24.00	27.80	0.86	4.42	0.71	2.15	0.72		Calculated
90 Pipe - (370)	24.00	28.48	0.84	4.51	0.24	2.11	0.70		Calculated
91 Pipe - (371)	24.00	27.99	0.86	4.45	0.42	2.14	0.71		Calculated
92 Pipe - (372)	24.00	28.31	0.85	4.49	0.56	2.12	0.71		Calculated
93 Pipe - (374)	24.00	29.12	0.82	4.60	0.18	2.08	0.69		Calculated
94 Pipe - (375)	24.00	27.46	0.87	4.38	0.29	2.17	0.72		Calculated
95 Pipe - (376)	24.00	28.18	0.85	4.47	0.20	2.13	0.71		Calculated
96 Pipe - (377)	24.00	28.34	0.85	4.50	0.51	2.12	0.71		Calculated
97 Pipe - (378)	24.00	28.32	0.85	4.49	0.08	2.12	0.71		Calculated
98 Pipe - (378) (1)	24.00	28.47	0.84	4.51	0.47	2.11	0.70		Calculated
99 Pipe - (379)	24.00	27.21	0.88	4.34	0.19	2.19	0.73		Calculated
100 Pipe - (380)	24.00	30.29	0.79	4.75	0.06	2.02	0.67		Calculated
101 Pipe - (381)	24.00	27.87	0.86	4.43	0.10	2.15	0.72		Calculated
102 Pipe - (382)	24.00	27.17	0.88	4.34	0.19	2.19	0.73		Calculated
103 Pipe - (383)	24.00	27.48	0.87	4.38	0.16	2.17	0.72		Calculated
104 Pipe - (384)	24.00	31.49	0.76	4.90	0.04	1.96	0.65		Calculated
105 Pipe - (385)	24.00	27.63	0.87	4.40	0.05	2.16	0.72		Calculated
106 Pipe - (386)	24.00	29.54	0.81	4.65	0.17	2.05	0.68		Calculated
107 Pipe - (387)	24.00	28.20	0.85	4.48	1.32	2.13	0.71		Calculated
108 Pipe - (388)	24.00	28.10	0.85	4.46	0.97	2.13	0.71		Calculated
109 Pipe - (388) (1)	24.00	28.06	0.86	4.46	0.14	2.14	0.71		Calculated
110 Pipe - (389)	24.00	35.36	0.68	5.37	0.06	1.81	0.60		Calculated
111 Pipe - (390)	24.00	38.03	0.63	5.69	0.12	1.73	0.58		Calculated
112 Pipe - (391)	24.00	37.15	0.65	5.58	0.73	1.76	0.59		Calculated
113 Pipe - (392)	24.00	36.22	0.66	5.48	0.05	1.79	0.60		Calculated
114 Pipe - (393)	24.00	36.62	0.66	5.52	0.11	1.77	0.59		Calculated
115 Pipe - (394)	24.00	37.18	0.65	5.59	0.15	1.76	0.59		Calculated
116 Pipe - (395)	24.00	37.03	0.65	5.57	0.22	1.76	0.59		Calculated
117 Pipe - (396)	24.00	37.80	0.63	5.66	0.27	1.74	0.58		Calculated
118 Pipe - (396) (1)	24.00	34.13	0.70	5.23	0.07	1.86	0.62		Calculated
119 Pipe - (397)	24.00	32.20	0.75	4.99	0.31	1.93	0.64		Calculated
120 Pipe - (398)	24.00	32.74	0.73	5.06	0.10	1.91	0.64		Calculated
121 Pipe - (399)	24.00	32.69	0.73	5.05	0.80	1.91	0.64		Calculated
122 Pipe - (400)	24.00	32.65	0.73	5.05	0.34	1.91	0.64		Calculated
123 Pipe - (401)	24.00	32.66	0.73	5.05	0.22	1.91	0.64		Calculated
124 Pipe - (402)	24.00	32.69	0.73	5.05	0.47	1.91	0.64		Calculated
125 Pipe - (403)	24.00	32.69	0.73	5.05	0.62	1.91	0.64		Calculated
126 Pipe - (404)	24.00	32.68	0.73	5.05	0.53	1.91	0.64		Calculated
127 Pipe - (405)	24.00	32.69	0.73	5.05	0.53	1.91	0.64		Calculated
128 Pipe - (406)	24.00	32.68	0.73	5.05	0.25	1.91	0.64		Calculated
129 Pipe - (407)	24.00	32.64	0.74	5.05	0.35	1.91	0.64		Calculated
130 Pipe - (407) (1)	24.00	30.98	0.77	4.84	0.27	1.98	0.66		Calculated
131 Pipe - (408)	24.00	31.01	0.77	4.84	0.22	1.98	0.66		Calculated
132 Pipe - (409)	24.00	30.11	0.80	4.73	0.18	2.02	0.67		Calculated
133 Pipe - (410)	24.00	31.36	0.77	4.89	0.16	1.97	0.66		Calculated
134 Pipe - (411)	24.00	30.88	0.78	4.83	0.81	1.99	0.66		Calculated
135 Pipe - (412)	24.00	30.88	0.78	4.83	0.58	1.99	0.66		Calculated
136 Pipe - (413)	24.00	30.82	0.78	4.82	0.04	1.99	0.66		Calculated
137 Pipe - (414)	24.00	30.84	0.78	4.82	0.10	1.99	0.66		Calculated
138 Pipe - (415)	24.00	31.03	0.77	4.85	0.05	1.98	0.66		Calculated
139 Pipe - (416)	24.00	30.84	0.78	4.82	0.14	1.99	0.66		Calculated
140 Pipe - (417)	24.00	30.89	0.78	4.83	0.27	1.99	0.66		Calculated
141 Pipe - (418)	24.00	29.70	0.81	4.67	0.41	2.05	0.68		Calculated
142 Pipe - (419)	24.00	31.92	0.75	4.96	0.05	1.94	0.65		Calculated
143 Pipe - (420)	24.00	31.90	0.75	4.96	0.38	1.94	0.65		Calculated
144 Pipe - (421)	24.00	31.26	0.77	4.88	0.31	1.97	0.66		Calculated
145 Pipe - (422)	24.00	30.57	0.79	4.79	0.33	2.00	0.67		Calculated
146 Pipe - (423)	24.00	30.86	0.78	4.83	0.13	1.99	0.66		Calculated
147 Pipe - (424)	24.00	31.06	0.77	4.85	0.22	1.98	0.66		Calculated
148 Pipe - (425)	24.00	30.24	0.79	4.75	0.28	2.02	0.67		Calculated
149 Pipe - (426)	24.00	30.90	0.78	4.83	0.49	1.99	0.66		Calculated
150 Pipe - (427)	24.00	31.18	0.77	4.87	0.37	1.97	0.66		Calculated
151 Pipe - (428)	24.00	31.18	0.77	4.87	0.28	1.97	0.66		Calculated
152 Pipe - (429)	24.00	30.75	0.78	4.81	0.19	1.99	0.66		Calculated
153 Pipe - (430)	24.00	30.06	0.80	4.72	0.39	2.03	0.68		Calculated
154 Pipe - (431)	24.00	31.20	0.77	4.87	0.26	1.97	0.66		Calculated
155 Pipe - (432)	24.00	30.77	0.78	4.81	0.13	1.99	0.66		Calculated
156 Pipe - (434)	24.00	32.85	0.73	5.07	0.19	1.90	0.63		Calculated
157 Pipe - (434) (1)	24.00	36.03	0.67	5.45	0.33	1.79	0.60		Calculated
158 Pipe - (435)	24.00	34.63	0.69	5.29	0.36	1.84	0.61		Calculated
159 Pipe - (436)	24.00	34.81	0.69	5.31	0.51	1.83	0.61		Calculated
160 Pipe - (437)	24.00	37.68	0.64	5.65	0.05	1.74	0.58		Calculated
161 Pipe - (438)	24.00	34.14	0.70	5.23	0.17	1.86	0.62		Calculated
162 Pipe - (439)	24.00	36.48	0.66	5.50	0.06	1.78	0.59		Calculated

## Pipe Results

SN Element ID	Peak Flow	Design Flow Capacity	Peak Flow/ Design Flow Ratio	Peak Flow Velocity	Travel Time	Peak Flow Depth	Peak Flow Depth/ Total Depth Ratio	Froude Number	Reported Condition
	(cfs)	(cfs)		(ft/sec)	(min)	(ft)			
163 Pipe - (440)	24.00	34.03	0.71	5.21	0.23	1.86	0.62		Calculated
164 Pipe - (441)	24.00	34.98	0.69	5.33	0.56	1.83	0.61		Calculated
165 Pipe - (442)	24.00	34.06	0.70	5.22	0.23	1.86	0.62		Calculated
166 Pipe - (442) (1)	24.00	35.06	0.68	5.34	0.76	1.82	0.61		Calculated
167 Pipe - (443)	24.00	31.61	0.76	4.92	0.30	1.96	0.65		Calculated
168 Pipe - (444)	24.00	37.10	0.65	5.58	0.41	1.76	0.59		Calculated
169 Pipe - (445)	24.00	34.16	0.70	5.23	0.09	1.85	0.62		Calculated

## Project Description

File Name ..... Section4.SPF

## Number of Elements

	Qty
Rain Gages .....	0
Subbasins.....	0
Nodes.....	26
<i>Junctions</i> .....	25
<i>Outfalls</i> .....	1
<i>Flow Diversions</i> .....	0
<i>Inlets</i> .....	0
<i>Storage Nodes</i> .....	0
Links.....	25
<i>Channels</i> .....	0
<i>Pipes</i> .....	25
<i>Pumps</i> .....	0
<i>Orifices</i> .....	0
<i>Weirs</i> .....	0
<i>Outlets</i> .....	0
Pollutants .....	0
Land Uses .....	0

## Node Summary

SN	Element ID	Element Type	Invert Elevation	Ground/Rim (Max) Elevation	Initial Water Elevation	Surcharge Elevation	Peak Inflow	Max HGL Elevation Attained
			(ft)	(ft)	(ft)	(ft)	(cfs)	(ft)
1	Structure - (462)-CascadeFall	Junction	2863.15	2866.41	2863.15	2866.41	24.00	2864.72
2	Structure - (463)	Junction	2862.99	2866.25	2862.99	2866.25	24.00	2864.56
3	Structure - (464)	Junction	2862.88	2866.14	2862.88	2866.14	24.00	2864.45
4	Structure - (465)	Junction	2862.62	2865.87	2862.62	2865.87	24.00	2864.19
5	Structure - (466)	Junction	2862.11	2865.37	2862.11	2865.37	24.00	2863.68
6	Structure - (467)	Junction	2861.96	2865.22	2861.96	2865.22	24.00	2863.53
7	Structure - (468)	Junction	2861.30	2864.55	2861.30	2864.55	24.00	2862.86
8	Structure - (469)	Junction	2861.04	2864.30	2861.04	2864.30	24.00	2862.61
9	Structure - (470)	Junction	2860.14	2863.39	2860.14	2863.39	24.00	2861.70
10	Structure - (471)	Junction	2859.86	2863.12	2859.86	2863.12	24.00	2861.43
11	Structure - (472)	Junction	2859.78	2863.04	2859.78	2863.04	24.00	2861.35
12	Structure - (473)	Junction	2859.64	2862.89	2859.64	2862.89	24.00	2861.21
13	Structure - (474)	Junction	2859.58	2862.84	2859.58	2862.84	24.00	2861.16
14	Structure - (475)-AP	Junction	2859.44	2862.70	2859.44	2862.70	24.00	2861.17
15	Structure - (476)	Junction	2859.22	2862.48	2859.22	2862.48	24.00	2860.94
16	Structure - (477)	Junction	2858.82	2862.08	2858.82	2862.08	24.00	2860.54
17	Structure - (478)	Junction	2858.17	2861.43	2858.17	2861.43	24.00	2859.90
18	Structure - (479)	Junction	2858.03	2861.29	2858.03	2861.29	24.00	2859.76
19	Structure - (480)	Junction	2857.98	2861.24	2857.98	2861.24	24.00	2859.71
20	Structure - (481)	Junction	2856.96	2860.22	2856.96	2860.22	24.00	2858.69
21	Structure - (481)-AP	Junction	2856.64	2859.89	2856.64	2859.89	24.00	2858.47
22	Structure - (482)	Junction	2856.54	2859.80	2856.54	2859.80	24.00	2858.38
23	Structure - (483)	Junction	2856.26	2859.51	2856.26	2859.51	24.00	2858.09
24	Structure - (484)	Junction	2856.23	2859.48	2856.23	2859.48	24.00	2858.06
25	Structure - (485)	Junction	2855.84	2859.10	2855.84	2859.10	24.00	2857.68
26	Out-1Pipe - (CostaCreekSiphon)	Outfall	2855.60				24.00	2857.43

## 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 (in)	Manning's Roughness	Peak Flow (cfs)	Design Flow Capacity (cfs)	Peak Flow Velocity (ft/sec)	Peak Flow Reported Depth (ft)	Reported Condition
1 Pipe - (448)	Pipe	Structure - (462)-CascadeFall	Structure - (463)	41.63	2863.15	2862.99	0.3800	36.000	0.0120	24.00	44.56	6.42	1.57	Calculated
2 Pipe - (449)	Pipe	Structure - (463)	Structure - (464)	28.77	2862.99	2862.88	0.3800	36.000	0.0120	24.00	44.64	6.43	1.57	Calculated
3 Pipe - (450)	Pipe	Structure - (464)	Structure - (465)	69.61	2862.88	2862.62	0.3800	36.000	0.0120	24.00	44.53	6.41	1.57	Calculated
4 Pipe - (451)	Pipe	Structure - (465)	Structure - (466)	132.43	2862.62	2862.11	0.3800	36.000	0.0120	24.00	44.57	6.42	1.57	Calculated
5 Pipe - (452)	Pipe	Structure - (466)	Structure - (467)	40.41	2862.11	2861.96	0.3800	36.000	0.0120	24.00	44.53	6.41	1.57	Calculated
6 Pipe - (453)	Pipe	Structure - (467)	Structure - (468)	174.38	2861.96	2861.30	0.3800	36.000	0.0120	24.00	44.57	6.42	1.57	Calculated
7 Pipe - (454)	Pipe	Structure - (468)	Structure - (469)	67.00	2861.30	2861.04	0.3800	36.000	0.0120	24.00	44.60	6.42	1.57	Calculated
8 Pipe - (455)	Pipe	Structure - (469)	Structure - (470)	237.92	2861.04	2860.14	0.3800	36.000	0.0120	24.00	44.56	6.42	1.57	Calculated
9 Pipe - (456)	Pipe	Structure - (470)	Structure - (471)	71.34	2860.14	2859.86	0.3800	36.000	0.0120	24.00	44.60	6.42	1.57	Calculated
10 Pipe - (457)	Pipe	Structure - (471)	Structure - (472)	21.67	2859.86	2859.78	0.3900	36.000	0.0120	24.00	45.00	6.47	1.56	Calculated
11 Pipe - (458)	Pipe	Structure - (472)	Structure - (473)	37.44	2859.78	2859.64	0.3800	36.000	0.0120	24.00	44.54	6.42	1.57	Calculated
12 Pipe - (459)	Pipe	Structure - (473)	Structure - (474)	13.67	2859.64	2859.58	0.4000	36.000	0.0120	24.00	45.52	6.52	1.55	Calculated
13 Pipe - (460)	Pipe	Structure - (474)	Structure - (475)-AP	37.67	2859.58	2859.44	0.3800	36.000	0.0120	24.00	44.30	6.39	1.57	Calculated
14 Pipe - (461)	Pipe	Structure - (475)-AP	Structure - (476)	78.98	2859.44	2859.22	0.2800	36.000	0.0120	24.00	38.27	5.71	1.72	Calculated
15 Pipe - (462)	Pipe	Structure - (476)	Structure - (477)	142.30	2859.22	2858.82	0.2800	36.000	0.0120	24.00	38.29	5.72	1.72	Calculated
16 Pipe - (463)	Pipe	Structure - (477)	Structure - (478)	231.26	2858.82	2858.17	0.2800	36.000	0.0120	24.00	38.27	5.71	1.72	Calculated
17 Pipe - (464)	Pipe	Structure - (478)	Structure - (479)	50.46	2858.17	2858.03	0.2800	36.000	0.0120	24.00	38.30	5.72	1.72	Calculated
18 Pipe - (465)	Pipe	Structure - (479)	Structure - (480)	18.33	2858.03	2857.98	0.2800	36.000	0.0120	24.00	38.16	5.70	1.73	Calculated
19 Pipe - (466)	Pipe	Structure - (480)	Structure - (481)	362.41	2857.98	2856.96	0.2800	36.000	0.0120	24.00	38.30	5.72	1.72	Calculated
20 Pipe - (467)	Pipe	Structure - (481)	Structure - (481)-AP	116.21	2856.96	2856.64	0.2800	36.000	0.0120	24.00	38.24	5.71	1.72	Calculated
21 Pipe - (467) (1)	Pipe	Structure - (481)-AP	Structure - (482)	40.72	2856.64	2856.54	0.2300	36.000	0.0120	24.00	34.66	5.29	1.84	Calculated
22 Pipe - (468)	Pipe	Structure - (482)	Structure - (483)	122.47	2856.54	2856.26	0.2300	36.000	0.0120	24.00	34.78	5.30	1.83	Calculated
23 Pipe - (469)	Pipe	Structure - (483)	Structure - (484)	13.71	2856.26	2856.23	0.2400	36.000	0.0120	24.00	35.56	5.40	1.81	Calculated
24 Pipe - (470)	Pipe	Structure - (484)	Structure - (485)	164.79	2856.23	2855.84	0.2300	36.000	0.0120	24.00	34.76	5.30	1.83	Calculated
25 Pipe - (471)	Pipe	Structure - (485)	Out-1Pipe - (CostaCreekSiphon)	107.74	2855.84	2855.60	0.2300	36.000	0.0120	24.00	34.69	5.29	1.84	Calculated



## Junction Input

SN	Element ID	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Initial Water Elevation (ft)	Initial Water Depth (ft)	Surcharge Elevation (ft)	Surcharge Depth (ft)	Ponded Area (ft <sup>2</sup> )	Minimum Pipe Cover (in)
1	Structure - (462)-CascadeFall	2863.15	2866.41	3.26	2863.15	0.00	2866.41	0.00	0.00	0.00
2	Structure - (463)	2862.99	2866.25	3.26	2862.99	0.00	2866.25	0.00	0.00	0.00
3	Structure - (464)	2862.88	2866.14	3.26	2862.88	0.00	2866.14	0.00	0.00	0.00
4	Structure - (465)	2862.62	2865.87	3.26	2862.62	0.00	2865.87	0.00	0.00	0.00
5	Structure - (466)	2862.11	2865.37	3.26	2862.11	0.00	2865.37	0.00	0.00	0.00
6	Structure - (467)	2861.96	2865.22	3.26	2861.96	0.00	2865.22	0.00	0.00	0.00
7	Structure - (468)	2861.30	2864.55	3.26	2861.30	0.00	2864.55	0.00	0.00	0.00
8	Structure - (469)	2861.04	2864.30	3.26	2861.04	0.00	2864.30	0.00	0.00	0.00
9	Structure - (470)	2860.14	2863.39	3.26	2860.14	0.00	2863.39	0.00	0.00	0.00
10	Structure - (471)	2859.86	2863.12	3.26	2859.86	0.00	2863.12	0.00	0.00	0.00
11	Structure - (472)	2859.78	2863.04	3.26	2859.78	0.00	2863.04	0.00	0.00	0.00
12	Structure - (473)	2859.64	2862.89	3.26	2859.64	0.00	2862.89	0.00	0.00	0.00
13	Structure - (474)	2859.58	2862.84	3.26	2859.58	0.00	2862.84	0.00	0.00	0.00
14	Structure - (475)-AP	2859.44	2862.70	3.26	2859.44	0.00	2862.70	0.00	0.00	0.00
15	Structure - (476)	2859.22	2862.48	3.26	2859.22	0.00	2862.48	0.00	0.00	0.00
16	Structure - (477)	2858.82	2862.08	3.26	2858.82	0.00	2862.08	0.00	0.00	0.00
17	Structure - (478)	2858.17	2861.43	3.26	2858.17	0.00	2861.43	0.00	0.00	0.00
18	Structure - (479)	2858.03	2861.29	3.26	2858.03	0.00	2861.29	0.00	0.00	0.00
19	Structure - (480)	2857.98	2861.24	3.26	2857.98	0.00	2861.24	0.00	0.00	0.00
20	Structure - (481)	2856.96	2860.22	3.26	2856.96	0.00	2860.22	0.00	0.00	0.00
21	Structure - (481)-AP	2856.64	2859.89	3.26	2856.64	0.00	2859.89	0.00	0.00	0.00
22	Structure - (482)	2856.54	2859.80	3.26	2856.54	0.00	2859.80	0.00	0.00	0.00
23	Structure - (483)	2856.26	2859.51	3.26	2856.26	0.00	2859.51	0.00	0.00	0.00
24	Structure - (484)	2856.23	2859.48	3.26	2856.23	0.00	2859.48	0.00	0.00	0.00
25	Structure - (485)	2855.84	2859.10	3.26	2855.84	0.00	2859.10	0.00	0.00	0.00

## Junction Results

SN Element ID	Peak Inflow	Max HGL Elevation Attained	Max HGL Depth Attained	Max Surcharge Depth Attained	Min Freeboard Attained	Average HGL Elevation Attained	Average HGL Depth Attained	Total Flooded Volume
	(cfs)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ac-in)
1 Structure - (462)-CascadeFall	24.00	2864.72	1.57	0.00	1.69	2864.72	1.57	0.00
2 Structure - (463)	24.00	2864.56	1.57	0.00	1.69	2864.56	1.57	0.00
3 Structure - (464)	24.00	2864.45	1.57	0.00	1.69	2864.45	1.57	0.00
4 Structure - (465)	24.00	2864.19	1.57	0.00	1.69	2864.19	1.57	0.00
5 Structure - (466)	24.00	2863.68	1.57	0.00	1.69	2863.68	1.57	0.00
6 Structure - (467)	24.00	2863.53	1.57	0.00	1.69	2863.53	1.57	0.00
7 Structure - (468)	24.00	2862.86	1.56	0.00	1.69	2862.86	1.56	0.00
8 Structure - (469)	24.00	2862.61	1.57	0.00	1.69	2862.61	1.57	0.00
9 Structure - (470)	24.00	2861.70	1.56	0.00	1.69	2861.70	1.56	0.00
10 Structure - (471)	24.00	2861.43	1.57	0.00	1.69	2861.43	1.57	0.00
11 Structure - (472)	24.00	2861.35	1.57	0.00	1.69	2861.35	1.57	0.00
12 Structure - (473)	24.00	2861.21	1.57	0.00	1.69	2861.21	1.57	0.00
13 Structure - (474)	24.00	2861.16	1.58	0.00	1.68	2861.16	1.58	0.00
14 Structure - (475)-AP	24.00	2861.17	1.73	0.00	1.53	2861.17	1.73	0.00
15 Structure - (476)	24.00	2860.94	1.72	0.00	1.53	2860.94	1.72	0.00
16 Structure - (477)	24.00	2860.54	1.72	0.00	1.53	2860.54	1.72	0.00
17 Structure - (478)	24.00	2859.90	1.73	0.00	1.53	2859.90	1.73	0.00
18 Structure - (479)	24.00	2859.76	1.73	0.00	1.53	2859.76	1.73	0.00
19 Structure - (480)	24.00	2859.71	1.73	0.00	1.53	2859.71	1.73	0.00
20 Structure - (481)	24.00	2858.69	1.73	0.00	1.53	2858.69	1.73	0.00
21 Structure - (481)-AP	24.00	2858.47	1.83	0.00	1.42	2858.47	1.83	0.00
22 Structure - (482)	24.00	2858.38	1.84	0.00	1.42	2858.38	1.84	0.00
23 Structure - (483)	24.00	2858.09	1.83	0.00	1.42	2858.09	1.83	0.00
24 Structure - (484)	24.00	2858.06	1.83	0.00	1.42	2858.06	1.83	0.00
25 Structure - (485)	24.00	2857.68	1.84	0.00	1.42	2857.68	1.84	0.00

# Pipe Input

SN	Element ID	Length (ft)	Inlet Invert Elevation (ft)	Outlet Invert Elevation (ft)	Average Slope (%)	Pipe Diameter or Height (in)	Manning's Roughness	Entrance Losses	Exit/Bend Losses	Initial Flow (cfs)
1	Pipe - (448)	41.63	2863.15	2862.99	0.3800	36.000	0.0120	0.6000	0.6000	0.00
2	Pipe - (449)	28.77	2862.99	2862.88	0.3800	36.000	0.0120	0.6000	0.6000	0.00
3	Pipe - (450)	69.61	2862.88	2862.62	0.3800	36.000	0.0120	0.6000	0.6000	0.00
4	Pipe - (451)	132.43	2862.62	2862.11	0.3800	36.000	0.0120	0.6000	0.6000	0.00
5	Pipe - (452)	40.41	2862.11	2861.96	0.3800	36.000	0.0120	0.6000	0.6000	0.00
6	Pipe - (453)	174.38	2861.96	2861.30	0.3800	36.000	0.0120	0.6000	0.6000	0.00
7	Pipe - (454)	67.00	2861.30	2861.04	0.3800	36.000	0.0120	0.6000	0.6000	0.00
8	Pipe - (455)	237.92	2861.04	2860.14	0.3800	36.000	0.0120	0.6000	0.6000	0.00
9	Pipe - (456)	71.34	2860.14	2859.86	0.3800	36.000	0.0120	0.6000	0.6000	0.00
10	Pipe - (457)	21.67	2859.86	2859.78	0.3900	36.000	0.0120	0.6000	0.6000	0.00
11	Pipe - (458)	37.44	2859.78	2859.64	0.3800	36.000	0.0120	0.6000	0.6000	0.00
12	Pipe - (459)	13.67	2859.64	2859.58	0.4000	36.000	0.0120	0.6000	0.6000	0.00
13	Pipe - (460)	37.67	2859.58	2859.44	0.3800	36.000	0.0120	0.6000	0.6000	0.00
14	Pipe - (461)	78.98	2859.44	2859.22	0.2800	36.000	0.0120	0.6000	0.6000	0.00
15	Pipe - (462)	142.30	2859.22	2858.82	0.2800	36.000	0.0120	0.6000	0.6000	0.00
16	Pipe - (463)	231.26	2858.82	2858.17	0.2800	36.000	0.0120	0.6000	0.6000	0.00
17	Pipe - (464)	50.46	2858.17	2858.03	0.2800	36.000	0.0120	0.6000	0.6000	0.00
18	Pipe - (465)	18.33	2858.03	2857.98	0.2800	36.000	0.0120	0.6000	0.6000	0.00
19	Pipe - (466)	362.41	2857.98	2856.96	0.2800	36.000	0.0120	0.6000	0.6000	0.00
20	Pipe - (467)	116.21	2856.96	2856.64	0.2800	36.000	0.0120	0.6000	0.6000	0.00
21	Pipe - (467) (1)	40.72	2856.64	2856.54	0.2300	36.000	0.0120	0.6000	0.6000	0.00
22	Pipe - (468)	122.47	2856.54	2856.26	0.2300	36.000	0.0120	0.6000	0.6000	0.00
23	Pipe - (469)	13.71	2856.26	2856.23	0.2400	36.000	0.0120	0.6000	0.6000	0.00
24	Pipe - (470)	164.79	2856.23	2855.84	0.2300	36.000	0.0120	0.6000	0.6000	0.00
25	Pipe - (471)	107.74	2855.84	2855.60	0.2300	36.000	0.0120	0.6000	0.6000	0.00

## Pipe Results

SN Element ID	Peak Flow	Design Flow Capacity	Peak Flow/ Design Flow Ratio	Peak Flow Velocity	Travel Time	Peak Flow Depth	Peak Flow Depth/ Total Depth Ratio	Froude Number	Reported Condition
	(cfs)	(cfs)		(ft/sec)	(min)	(ft)			
1 Pipe - (448)	24.00	44.56	0.54	6.42	0.11	1.57	0.52		Calculated
2 Pipe - (449)	24.00	44.64	0.54	6.43	0.07	1.57	0.52		Calculated
3 Pipe - (450)	24.00	44.53	0.54	6.41	0.18	1.57	0.52		Calculated
4 Pipe - (451)	24.00	44.57	0.54	6.42	0.34	1.57	0.52		Calculated
5 Pipe - (452)	24.00	44.53	0.54	6.41	0.11	1.57	0.52		Calculated
6 Pipe - (453)	24.00	44.57	0.54	6.42	0.45	1.57	0.52		Calculated
7 Pipe - (454)	24.00	44.60	0.54	6.42	0.17	1.57	0.52		Calculated
8 Pipe - (455)	24.00	44.56	0.54	6.42	0.62	1.57	0.52		Calculated
9 Pipe - (456)	24.00	44.60	0.54	6.42	0.19	1.57	0.52		Calculated
10 Pipe - (457)	24.00	45.00	0.53	6.47	0.06	1.56	0.52		Calculated
11 Pipe - (458)	24.00	44.54	0.54	6.42	0.10	1.57	0.52		Calculated
12 Pipe - (459)	24.00	45.52	0.53	6.52	0.03	1.55	0.52		Calculated
13 Pipe - (460)	24.00	44.30	0.54	6.39	0.10	1.57	0.52		Calculated
14 Pipe - (461)	24.00	38.27	0.63	5.71	0.23	1.72	0.57		Calculated
15 Pipe - (462)	24.00	38.29	0.63	5.72	0.41	1.72	0.57		Calculated
16 Pipe - (463)	24.00	38.27	0.63	5.71	0.68	1.72	0.57		Calculated
17 Pipe - (464)	24.00	38.30	0.63	5.72	0.15	1.72	0.57		Calculated
18 Pipe - (465)	24.00	38.16	0.63	5.70	0.05	1.73	0.58		Calculated
19 Pipe - (466)	24.00	38.30	0.63	5.72	1.06	1.72	0.57		Calculated
20 Pipe - (467)	24.00	38.24	0.63	5.71	0.34	1.72	0.57		Calculated
21 Pipe - (467) (1)	24.00	34.66	0.69	5.29	0.13	1.84	0.61		Calculated
22 Pipe - (468)	24.00	34.78	0.69	5.30	0.39	1.83	0.61		Calculated
23 Pipe - (469)	24.00	35.56	0.67	5.40	0.04	1.81	0.60		Calculated
24 Pipe - (470)	24.00	34.76	0.69	5.30	0.52	1.83	0.61		Calculated
25 Pipe - (471)	24.00	34.69	0.69	5.29	0.34	1.84	0.61		Calculated

## Project Description

File Name ..... Section5.SPF

## Number of Elements

	Qty
Rain Gages .....	0
Subbasins.....	0
Nodes.....	51
<i>Junctions</i> .....	50
<i>Outfalls</i> .....	1
<i>Flow Diversions</i> .....	0
<i>Inlets</i> .....	0
<i>Storage Nodes</i> .....	0
Links.....	50
<i>Channels</i> .....	0
<i>Pipes</i> .....	50
<i>Pumps</i> .....	0
<i>Orifices</i> .....	0
<i>Weirs</i> .....	0
<i>Outlets</i> .....	0
Pollutants .....	0
Land Uses .....	0

## Node Summary

SN	Element ID	Element Type	Invert Elevation	Ground/Rim (Max) Elevation	Initial Water Elevation	Surcharge Elevation	Peak Inflow	Max HGL Elevation Attained
			(ft)	(ft)	(ft)	(ft)	(cfs)	(ft)
1	Structure - (488)-CostaCreekSiphonOutlet	Junction	2782.10	2785.10	2782.10	2785.10	24.00	2784.02
2	Structure - (489)	Junction	2782.00	2785.00	2782.00	2785.00	24.00	2783.92
3	Structure - (490)	Junction	2781.95	2785.95	2781.95	2785.95	24.00	2784.95
4	Structure - (491)	Junction	2781.89	2786.22	2781.89	2786.22	24.00	2784.89
5	Structure - (492)	Junction	2781.88	2785.14	2781.88	2785.14	24.00	2784.14
6	Structure - (493)	Junction	2781.84	2785.09	2781.84	2785.09	24.00	2784.10
7	Structure - (494)	Junction	2781.70	2784.96	2781.70	2784.96	24.00	2783.97
8	Structure - (495)	Junction	2781.61	2784.87	2781.61	2784.87	24.00	2783.87
9	Structure - (496)	Junction	2781.47	2784.72	2781.47	2784.72	24.00	2783.72
10	Structure - (497)	Junction	2781.35	2785.68	2781.35	2785.68	24.00	2783.61
11	Structure - (498)	Junction	2781.33	2785.66	2781.33	2785.66	24.00	2783.59
12	Structure - (499)	Junction	2781.26	2784.52	2781.26	2784.52	24.00	2783.52
13	Structure - (500)	Junction	2781.05	2785.60	2781.05	2785.60	24.00	2783.31
14	Structure - (501)	Junction	2781.01	2784.27	2781.01	2784.27	24.00	2783.33
15	Structure - (502)	Junction	2780.94	2784.19	2780.94	2784.19	24.00	2783.19
16	Structure - (503)	Junction	2780.92	2784.18	2780.92	2784.18	24.00	2783.18
17	Structure - (504)	Junction	2780.81	2784.07	2780.81	2784.07	24.00	2783.07
18	Structure - (505)	Junction	2780.75	2784.00	2780.75	2784.00	24.00	2783.02
19	Structure - (506)	Junction	2780.59	2783.84	2780.59	2783.84	24.00	2782.86
20	Structure - (507)	Junction	2780.49	2783.75	2780.49	2783.75	24.00	2782.87
21	Structure - (508)	Junction	2780.46	2783.72	2780.46	2783.72	24.00	2782.72
22	Structure - (509)	Junction	2780.29	2783.55	2780.29	2783.55	24.00	2782.55
23	Structure - (510)	Junction	2779.99	2783.24	2779.99	2783.24	24.00	2782.24
24	Structure - (511)	Junction	2779.79	2783.05	2779.79	2783.05	24.00	2782.05
25	Structure - (512)AP	Junction	2779.71	2784.20	2779.71	2784.20	24.00	2781.96
26	Structure - (513)	Junction	2779.49	2782.75	2779.49	2782.75	24.00	2781.75
27	Structure - (514)	Junction	2779.29	2782.55	2779.29	2782.55	24.00	2781.55
28	Structure - (515)	Junction	2779.12	2782.38	2779.12	2782.38	24.00	2781.38
29	Structure - (516)	Junction	2778.85	2782.10	2778.85	2782.10	24.00	2781.10
30	Structure - (517)	Junction	2778.73	2781.98	2778.73	2781.98	24.00	2780.98
31	Structure - (518)	Junction	2778.64	2781.90	2778.64	2781.90	24.00	2780.90
32	Structure - (519)	Junction	2778.63	2781.88	2778.63	2781.88	24.00	2780.89
33	Structure - (520)	Junction	2778.60	2781.86	2778.60	2781.86	24.00	2780.86
34	Structure - (520)AP	Junction	2778.38	2782.90	2778.38	2782.90	24.00	2780.64
35	Structure - (521)	Junction	2778.28	2781.54	2778.28	2781.54	24.00	2780.54
36	Structure - (522)	Junction	2777.94	2781.20	2777.94	2781.20	24.00	2780.20
37	Structure - (523)	Junction	2777.79	2781.04	2777.79	2781.04	24.00	2780.04
38	Structure - (524)	Junction	2777.73	2780.99	2777.73	2780.99	24.00	2779.99
39	Structure - (525)	Junction	2777.71	2780.97	2777.71	2780.97	24.00	2779.97
40	Structure - (526)	Junction	2777.65	2780.90	2777.65	2780.90	24.00	2779.90
41	Structure - (527)	Junction	2777.63	2780.89	2777.63	2780.89	24.00	2779.89
42	Structure - (528)	Junction	2777.58	2780.84	2777.58	2780.84	24.00	2779.84
43	Structure - (529)	Junction	2777.50	2780.75	2777.50	2780.75	24.00	2779.75
44	Structure - (530)	Junction	2777.43	2780.69	2777.43	2780.69	24.00	2779.69
45	Structure - (531)	Junction	2777.34	2780.60	2777.34	2780.60	24.00	2779.60
46	Structure - (532)	Junction	2777.32	2780.57	2777.32	2780.57	24.00	2779.57
47	Structure - (533)	Junction	2777.11	2780.11	2777.11	2780.11	24.00	2779.47
48	Structure - (537)	Junction	2780.49	2783.74	2780.49	2783.74	24.00	2782.87
49	Structure - (538)	Junction	2781.02	2785.35	2781.02	2785.35	24.00	2783.34
50	Structure - (539)AP	Junction	2781.04	2785.37	2781.04	2785.37	24.00	2783.30
51	Out-BeehiveSiphonInlet	Outfall	2777.06				24.00	2779.42

## 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 (in)	Manning's Roughness	Peak Flow (cfs)	Design Flow Capacity (cfs)	Peak Flow Velocity (ft/sec)	Peak Flow Reported Depth (ft)	Condition
1 Pipe - (472)ExCMPtoRemain	Pipe	Structure - (488)-CostaCreekSiphonOutlet	Structure - (489)	90.99	2782.10	2782.00	0.1100	48.000	0.0120	24.00	51.59	4.03	1.92	Calculated
2 Pipe - (473)ExWoodFlumeToRemain	Pipe	Structure - (489)	Structure - (490)	29.68	2782.00	2781.95	0.1700	36.000	0.0130	24.00	67.41	4.05	1.18	Calculated
3 Pipe - (474)ExCMPtoRemain	Pipe	Structure - (490)	Structure - (491)	210.13	2781.95	2781.89	0.0300	48.000	0.0120	24.00	26.30	2.37	3.00	Calculated
4 Pipe - (475)	Pipe	Structure - (491)	Structure - (492)	4.99	2781.89	2781.88	0.1500	36.000	0.0120	24.00	27.82	4.43	2.15	Calculated
5 Pipe - (476)	Pipe	Structure - (492)	Structure - (493)	35.22	2781.88	2781.84	0.1300	36.000	0.0120	24.00	26.26	4.21	2.26	Calculated
6 Pipe - (477)	Pipe	Structure - (493)	Structure - (494)	103.36	2781.84	2781.70	0.1300	36.000	0.0120	24.00	26.12	4.19	2.27	Calculated
7 Pipe - (478)	Pipe	Structure - (494)	Structure - (495)	67.48	2781.70	2781.61	0.1300	36.000	0.0120	24.00	26.27	4.21	2.26	Calculated
8 Pipe - (479)	Pipe	Structure - (495)	Structure - (496)	110.86	2781.61	2781.47	0.1300	36.000	0.0120	24.00	26.27	4.21	2.26	Calculated
9 Pipe - (480)	Pipe	Structure - (496)	Structure - (497)	84.40	2781.47	2781.35	0.1300	36.000	0.0120	24.00	26.25	4.21	2.26	Calculated
10 Pipe - (481)	Pipe	Structure - (497)	Structure - (498)	15.96	2781.35	2781.33	0.1300	36.000	0.0120	24.00	26.34	4.22	2.25	Calculated
11 Pipe - (482)	Pipe	Structure - (498)	Structure - (499)	53.87	2781.33	2781.26	0.1300	36.000	0.0120	24.00	26.25	4.21	2.26	Calculated
12 Pipe - (483)	Pipe	Structure - (499)	Structure - (500)	161.58	2781.26	2781.05	0.1300	36.000	0.0120	24.00	26.27	4.21	2.26	Calculated
13 Pipe - (484)	Pipe	Structure - (500)	Structure - (539)AP	5.01	2781.05	2781.04	0.1300	36.000	0.0120	24.00	26.24	4.21	2.26	Calculated
14 Pipe - (484) (1)	Pipe	Structure - (538)	Structure - (501)	4.99	2781.02	2781.01	0.1200	36.000	0.0120	24.00	25.46	4.09	2.32	Calculated
15 Pipe - (484) (2)	Pipe	Structure - (539)AP	Structure - (538)	18.27	2781.04	2781.02	0.1300	36.000	0.0120	24.00	26.24	4.21	2.26	Calculated
16 Pipe - (485)	Pipe	Structure - (501)	Structure - (502)	55.82	2781.01	2780.94	0.1300	36.000	0.0120	24.00	26.27	4.21	2.25	Calculated
17 Pipe - (486)	Pipe	Structure - (502)	Structure - (503)	10.71	2780.94	2780.92	0.1400	36.000	0.0120	24.00	27.05	4.32	2.20	Calculated
18 Pipe - (487)	Pipe	Structure - (503)	Structure - (504)	82.44	2780.92	2780.81	0.1300	36.000	0.0120	24.00	26.26	4.21	2.26	Calculated
19 Pipe - (488)	Pipe	Structure - (504)	Structure - (505)	47.05	2780.81	2780.75	0.1400	36.000	0.0120	24.00	26.88	4.30	2.21	Calculated
20 Pipe - (489)	Pipe	Structure - (505)	Structure - (506)	124.53	2780.75	2780.59	0.1300	36.000	0.0120	24.00	26.04	4.18	2.27	Calculated
21 Pipe - (490)	Pipe	Structure - (506)	Structure - (507)	71.39	2780.59	2780.49	0.1300	36.000	0.0120	24.00	26.26	4.21	2.26	Calculated
22 Pipe - (491)	Pipe	Structure - (507)	Structure - (537)	4.00	2780.49	2780.49	0.1200	36.000	0.0120	24.00	24.77	3.99	2.38	Calculated
23 Pipe - (491) (1)	Pipe	Structure - (537)	Structure - (508)	19.58	2780.49	2780.46	0.1300	36.000	0.0120	24.00	26.28	4.21	2.25	Calculated
24 Pipe - (492)	Pipe	Structure - (508)	Structure - (509)	129.75	2780.46	2780.29	0.1300	36.000	0.0120	24.00	26.26	4.21	2.26	Calculated
25 Pipe - (493)	Pipe	Structure - (509)	Structure - (510)	228.74	2780.29	2779.99	0.1300	36.000	0.0120	24.00	26.26	4.21	2.26	Calculated
26 Pipe - (494)	Pipe	Structure - (510)	Structure - (511)	146.26	2779.99	2779.79	0.1300	36.000	0.0120	24.00	26.27	4.21	2.26	Calculated
27 Pipe - (495)	Pipe	Structure - (511)	Structure - (512)AP	65.27	2779.79	2779.71	0.1300	36.000	0.0120	24.00	26.26	4.21	2.26	Calculated
28 Pipe - (496)	Pipe	Structure - (512)AP	Structure - (513)	165.78	2779.71	2779.49	0.1300	36.000	0.0120	24.00	26.27	4.21	2.26	Calculated
29 Pipe - (497)	Pipe	Structure - (513)	Structure - (514)	151.42	2779.49	2779.29	0.1300	36.000	0.0120	24.00	26.26	4.21	2.26	Calculated
30 Pipe - (498)	Pipe	Structure - (514)	Structure - (515)	127.78	2779.29	2779.12	0.1300	36.000	0.0120	24.00	26.26	4.21	2.26	Calculated
31 Pipe - (499)	Pipe	Structure - (515)	Structure - (516)	205.73	2779.12	2778.85	0.1300	36.000	0.0120	24.00	26.27	4.21	2.26	Calculated
32 Pipe - (500)	Pipe	Structure - (516)	Structure - (517)	91.40	2778.85	2778.73	0.1300	36.000	0.0120	24.00	26.26	4.21	2.26	Calculated
33 Pipe - (501)	Pipe	Structure - (517)	Structure - (518)	66.21	2778.73	2778.64	0.1300	36.000	0.0120	24.00	26.25	4.21	2.26	Calculated
34 Pipe - (502)	Pipe	Structure - (518)	Structure - (519)	8.52	2778.64	2778.63	0.1300	36.000	0.0120	24.00	26.32	4.22	2.25	Calculated
35 Pipe - (503)	Pipe	Structure - (519)	Structure - (520)	20.15	2778.63	2778.60	0.1300	36.000	0.0120	24.00	26.26	4.21	2.26	Calculated
36 Pipe - (504)	Pipe	Structure - (520)	Structure - (520)AP	170.01	2778.60	2778.38	0.1300	36.000	0.0120	24.00	26.25	4.21	2.26	Calculated
37 Pipe - (504) (1)	Pipe	Structure - (520)AP	Structure - (521)	71.15	2778.38	2778.28	0.1300	36.000	0.0120	24.00	26.29	4.21	2.25	Calculated
38 Pipe - (505)	Pipe	Structure - (521)	Structure - (522)	257.09	2778.28	2777.94	0.1300	36.000	0.0120	24.00	26.26	4.21	2.26	Calculated
39 Pipe - (506)	Pipe	Structure - (522)	Structure - (523)	118.12	2777.94	2777.79	0.1300	36.000	0.0120	24.00	26.28	4.21	2.25	Calculated
40 Pipe - (507)	Pipe	Structure - (523)	Structure - (524)	42.41	2777.79	2777.73	0.1300	36.000	0.0120	24.00	26.26	4.21	2.26	Calculated
41 Pipe - (508)	Pipe	Structure - (524)	Structure - (525)	15.63	2777.73	2777.71	0.1400	36.000	0.0120	24.00	26.68	4.27	2.23	Calculated
42 Pipe - (509)	Pipe	Structure - (525)	Structure - (526)	48.21	2777.71	2777.65	0.1300	36.000	0.0120	24.00	26.27	4.21	2.26	Calculated
43 Pipe - (510)	Pipe	Structure - (526)	Structure - (527)	11.23	2777.65	2777.63	0.1400	36.000	0.0120	24.00	26.58	4.25	2.23	Calculated
44 Pipe - (511)	Pipe	Structure - (527)	Structure - (528)	39.73	2777.63	2777.58	0.1300	36.000	0.0120	24.00	26.22	4.20	2.26	Calculated
45 Pipe - (512)	Pipe	Structure - (528)	Structure - (529)	61.53	2777.58	2777.50	0.1300	36.000	0.0120	24.00	26.27	4.21	2.26	Calculated
46 Pipe - (513)	Pipe	Structure - (529)	Structure - (530)	50.92	2777.50	2777.43	0.1300	36.000	0.0120	24.00	26.27	4.21	2.26	Calculated
47 Pipe - (514)	Pipe	Structure - (530)	Structure - (531)	67.59	2777.43	2777.34	0.1300	36.000	0.0120	24.00	26.26	4.21	2.26	Calculated
48 Pipe - (515)	Pipe	Structure - (531)	Structure - (532)	20.43	2777.34	2777.32	0.1300	36.000	0.0120	24.00	26.27	4.21	2.26	Calculated
49 Pipe - (516)	Pipe	Structure - (532)	Structure - (533)	151.33	2777.32	2777.11	0.1400	36.000	0.0120	24.00	26.60	4.26	2.23	Calculated
50 Pipe - (517)	Pipe	Structure - (533)	Out-BeehiveSiphonInlet	41.73	2777.11	2777.06	0.1200	36.000	0.0120	24.00	25.01	4.03	2.36	Calculated

# Junction Input

SN	Element ID	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Initial Water Elevation (ft)	Initial Water Depth (ft)	Surcharge Elevation (ft)	Surcharge Depth (ft)	Ponded Area (ft <sup>2</sup> )	Minimum Pipe Cover (in)
1	Structure - (488)-CostaCreekSiphonOutlet	2782.10	2785.10	3.00	2782.10	0.00	2785.10	0.00	0.00	0.00
2	Structure - (489)	2782.00	2785.00	3.00	2782.00	0.00	2785.00	0.00	0.00	0.00
3	Structure - (490)	2781.95	2785.95	4.00	2781.95	0.00	2785.95	0.00	0.00	0.00
4	Structure - (491)	2781.89	2786.22	4.33	2781.89	0.00	2786.22	0.00	0.00	0.00
5	Structure - (492)	2781.88	2785.14	3.26	2781.88	0.00	2785.14	0.00	0.00	0.00
6	Structure - (493)	2781.84	2785.09	3.26	2781.84	0.00	2785.09	0.00	0.00	0.00
7	Structure - (494)	2781.70	2784.96	3.26	2781.70	0.00	2784.96	0.00	0.00	0.00
8	Structure - (495)	2781.61	2784.87	3.26	2781.61	0.00	2784.87	0.00	0.00	0.00
9	Structure - (496)	2781.47	2784.72	3.26	2781.47	0.00	2784.72	0.00	0.00	0.00
10	Structure - (497)	2781.35	2785.68	4.33	2781.35	0.00	2785.68	0.00	0.00	0.00
11	Structure - (498)	2781.33	2785.66	4.33	2781.33	0.00	2785.66	0.00	0.00	0.00
12	Structure - (499)	2781.26	2784.52	3.26	2781.26	0.00	2784.52	0.00	0.00	0.00
13	Structure - (500)	2781.05	2785.60	4.55	2781.05	0.00	2785.60	0.00	0.00	0.00
14	Structure - (501)	2781.01	2784.27	3.26	2781.01	0.00	2784.27	0.00	0.00	0.00
15	Structure - (502)	2780.94	2784.19	3.26	2780.94	0.00	2784.19	0.00	0.00	0.00
16	Structure - (503)	2780.92	2784.18	3.26	2780.92	0.00	2784.18	0.00	0.00	0.00
17	Structure - (504)	2780.81	2784.07	3.26	2780.81	0.00	2784.07	0.00	0.00	0.00
18	Structure - (505)	2780.75	2784.00	3.26	2780.75	0.00	2784.00	0.00	0.00	0.00
19	Structure - (506)	2780.59	2783.84	3.26	2780.59	0.00	2783.84	0.00	0.00	0.00
20	Structure - (507)	2780.49	2783.75	3.26	2780.49	0.00	2783.75	0.00	0.00	0.00
21	Structure - (508)	2780.46	2783.72	3.26	2780.46	0.00	2783.72	0.00	0.00	0.00
22	Structure - (509)	2780.29	2783.55	3.26	2780.29	0.00	2783.55	0.00	0.00	0.00
23	Structure - (510)	2779.99	2783.24	3.26	2779.99	0.00	2783.24	0.00	0.00	0.00
24	Structure - (511)	2779.79	2783.05	3.26	2779.79	0.00	2783.05	0.00	0.00	0.00
25	Structure - (512)AP	2779.71	2784.20	4.49	2779.71	0.00	2784.20	0.00	0.00	0.00
26	Structure - (513)	2779.49	2782.75	3.26	2779.49	0.00	2782.75	0.00	0.00	0.00
27	Structure - (514)	2779.29	2782.55	3.26	2779.29	0.00	2782.55	0.00	0.00	0.00
28	Structure - (515)	2779.12	2782.38	3.26	2779.12	0.00	2782.38	0.00	0.00	0.00
29	Structure - (516)	2778.85	2782.10	3.26	2778.85	0.00	2782.10	0.00	0.00	0.00
30	Structure - (517)	2778.73	2781.98	3.26	2778.73	0.00	2781.98	0.00	0.00	0.00
31	Structure - (518)	2778.64	2781.90	3.26	2778.64	0.00	2781.90	0.00	0.00	0.00
32	Structure - (519)	2778.63	2781.88	3.26	2778.63	0.00	2781.88	0.00	0.00	0.00
33	Structure - (520)	2778.60	2781.86	3.26	2778.60	0.00	2781.86	0.00	0.00	0.00
34	Structure - (520)AP	2778.38	2782.90	4.52	2778.38	0.00	2782.90	0.00	0.00	0.00
35	Structure - (521)	2778.28	2781.54	3.26	2778.28	0.00	2781.54	0.00	0.00	0.00
36	Structure - (522)	2777.94	2781.20	3.26	2777.94	0.00	2781.20	0.00	0.00	0.00
37	Structure - (523)	2777.79	2781.04	3.26	2777.79	0.00	2781.04	0.00	0.00	0.00
38	Structure - (524)	2777.73	2780.99	3.26	2777.73	0.00	2780.99	0.00	0.00	0.00
39	Structure - (525)	2777.71	2780.97	3.26	2777.71	0.00	2780.97	0.00	0.00	0.00
40	Structure - (526)	2777.65	2780.90	3.26	2777.65	0.00	2780.90	0.00	0.00	0.00
41	Structure - (527)	2777.63	2780.89	3.26	2777.63	0.00	2780.89	0.00	0.00	0.00
42	Structure - (528)	2777.58	2780.84	3.26	2777.58	0.00	2780.84	0.00	0.00	0.00
43	Structure - (529)	2777.50	2780.75	3.26	2777.50	0.00	2780.75	0.00	0.00	0.00
44	Structure - (530)	2777.43	2780.69	3.26	2777.43	0.00	2780.69	0.00	0.00	0.00
45	Structure - (531)	2777.34	2780.60	3.26	2777.34	0.00	2780.60	0.00	0.00	0.00
46	Structure - (532)	2777.32	2780.57	3.26	2777.32	0.00	2780.57	0.00	0.00	0.00
47	Structure - (533)	2777.11	2780.11	3.00	2777.11	0.00	2780.11	0.00	0.00	0.00
48	Structure - (537)	2780.49	2783.74	3.26	2780.49	0.00	2783.74	0.00	0.00	0.00
49	Structure - (538)	2781.02	2785.35	4.33	2781.02	0.00	2785.35	0.00	0.00	0.00
50	Structure - (539)AP	2781.04	2785.37	4.33	2781.04	0.00	2785.37	0.00	0.00	0.00



# Junction Results

SN	Element ID	Peak Inflow	Max HGL Elevation	Max HGL Depth Attained	Max Surcharge Depth Attained	Min Freeboard Attained	Average HGL Elevation	Average HGL Depth Attained	Total Flooded Volume
		(cfs)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ac-in)
1	Structure - (488)-CostaCreekSiphonOutlet	24.00	2784.02	1.92	0.00	2.08	2784.02	1.92	0.00
2	Structure - (489)	24.00	2783.92	1.92	0.00	2.08	2783.92	1.92	0.00
3	Structure - (490)	24.00	2784.95	3.00	0.00	1.00	2784.95	3.00	0.00
4	Structure - (491)	24.00	2784.89	3.00	0.00	1.32	2784.89	3.00	0.00
5	Structure - (492)	24.00	2784.14	2.26	0.00	1.00	2784.14	2.26	0.00
6	Structure - (493)	24.00	2784.10	2.26	0.00	0.99	2784.10	2.26	0.00
7	Structure - (494)	24.00	2783.97	2.27	0.00	0.99	2783.97	2.27	0.00
8	Structure - (495)	24.00	2783.87	2.26	0.00	1.00	2783.87	2.26	0.00
9	Structure - (496)	24.00	2783.72	2.25	0.00	1.00	2783.72	2.25	0.00
10	Structure - (497)	24.00	2783.61	2.26	0.00	2.07	2783.61	2.26	0.00
11	Structure - (498)	24.00	2783.59	2.26	0.00	2.07	2783.59	2.26	0.00
12	Structure - (499)	24.00	2783.52	2.26	0.00	1.00	2783.52	2.26	0.00
13	Structure - (500)	24.00	2783.31	2.26	0.00	2.29	2783.31	2.26	0.00
14	Structure - (501)	24.00	2783.33	2.32	0.00	0.94	2783.33	2.32	0.00
15	Structure - (502)	24.00	2783.19	2.25	0.00	1.00	2783.19	2.25	0.00
16	Structure - (503)	24.00	2783.18	2.26	0.00	1.00	2783.18	2.26	0.00
17	Structure - (504)	24.00	2783.07	2.26	0.00	1.00	2783.07	2.26	0.00
18	Structure - (505)	24.00	2783.02	2.27	0.00	0.98	2783.02	2.27	0.00
19	Structure - (506)	24.00	2782.86	2.27	0.00	0.98	2782.86	2.27	0.00
20	Structure - (507)	24.00	2782.87	2.38	0.00	0.87	2782.87	2.38	0.00
21	Structure - (508)	24.00	2782.72	2.26	0.00	1.00	2782.72	2.26	0.00
22	Structure - (509)	24.00	2782.55	2.26	0.00	1.00	2782.55	2.26	0.00
23	Structure - (510)	24.00	2782.24	2.25	0.00	1.00	2782.24	2.25	0.00
24	Structure - (511)	24.00	2782.05	2.26	0.00	1.00	2782.05	2.26	0.00
25	Structure - (512)AP	24.00	2781.96	2.25	0.00	2.24	2781.96	2.25	0.00
26	Structure - (513)	24.00	2781.75	2.26	0.00	1.00	2781.75	2.26	0.00
27	Structure - (514)	24.00	2781.55	2.26	0.00	1.00	2781.55	2.26	0.00
28	Structure - (515)	24.00	2781.38	2.26	0.00	1.00	2781.38	2.26	0.00
29	Structure - (516)	24.00	2781.10	2.25	0.00	1.00	2781.10	2.25	0.00
30	Structure - (517)	24.00	2780.98	2.25	0.00	1.00	2780.98	2.25	0.00
31	Structure - (518)	24.00	2780.90	2.26	0.00	1.00	2780.90	2.26	0.00
32	Structure - (519)	24.00	2780.89	2.26	0.00	1.00	2780.89	2.26	0.00
33	Structure - (520)	24.00	2780.86	2.26	0.00	1.00	2780.86	2.26	0.00
34	Structure - (520)AP	24.00	2780.64	2.26	0.00	2.26	2780.64	2.26	0.00
35	Structure - (521)	24.00	2780.54	2.26	0.00	1.00	2780.54	2.26	0.00
36	Structure - (522)	24.00	2780.20	2.26	0.00	1.00	2780.20	2.26	0.00
37	Structure - (523)	24.00	2780.04	2.25	0.00	1.00	2780.04	2.25	0.00
38	Structure - (524)	24.00	2779.99	2.26	0.00	1.00	2779.99	2.26	0.00
39	Structure - (525)	24.00	2779.97	2.26	0.00	1.00	2779.97	2.26	0.00
40	Structure - (526)	24.00	2779.90	2.25	0.00	1.00	2779.90	2.25	0.00
41	Structure - (527)	24.00	2779.89	2.26	0.00	1.00	2779.89	2.26	0.00
42	Structure - (528)	24.00	2779.84	2.26	0.00	1.00	2779.84	2.26	0.00
43	Structure - (529)	24.00	2779.75	2.25	0.00	1.00	2779.75	2.25	0.00
44	Structure - (530)	24.00	2779.69	2.26	0.00	1.00	2779.69	2.26	0.00
45	Structure - (531)	24.00	2779.60	2.26	0.00	1.00	2779.60	2.26	0.00
46	Structure - (532)	24.00	2779.57	2.25	0.00	1.00	2779.57	2.25	0.00
47	Structure - (533)	24.00	2779.47	2.36	0.00	0.64	2779.47	2.36	0.00
48	Structure - (537)	24.00	2782.87	2.38	0.00	0.87	2782.87	2.38	0.00
49	Structure - (538)	24.00	2783.34	2.32	0.00	2.01	2783.34	2.32	0.00
50	Structure - (539)AP	24.00	2783.30	2.26	0.00	2.07	2783.30	2.26	0.00

# Pipe Input

SN	Element ID	Length (ft)	Inlet Invert Elevation (ft)	Outlet Invert Elevation (ft)	Average Slope (%)	Pipe Diameter or Height (in)	Manning's Roughness	Entrance Losses	Exit/Bend Losses	Initial Flow (cfs)
1	Pipe - (472)ExCMPtoRemain	90.99	2782.10	2782.00	0.1100	48.000	0.0120	0.6000	0.6000	0.00
2	Pipe - (473)ExWoodFlumeToRemain	29.68	2782.00	2781.95	0.1700	36.000	0.0130	0.6000	0.6000	0.00
3	Pipe - (474)ExCMPtoRemain	210.13	2781.95	2781.89	0.0300	48.000	0.0120	0.6000	0.6000	0.00
4	Pipe - (475)	4.99	2781.89	2781.88	0.1500	36.000	0.0120	0.6000	0.6000	0.00
5	Pipe - (476)	35.22	2781.88	2781.84	0.1300	36.000	0.0120	0.6000	0.6000	0.00
6	Pipe - (477)	103.36	2781.84	2781.70	0.1300	36.000	0.0120	0.6000	0.6000	0.00
7	Pipe - (478)	67.48	2781.70	2781.61	0.1300	36.000	0.0120	0.6000	0.6000	0.00
8	Pipe - (479)	110.86	2781.61	2781.47	0.1300	36.000	0.0120	0.6000	0.6000	0.00
9	Pipe - (480)	84.40	2781.47	2781.35	0.1300	36.000	0.0120	0.6000	0.6000	0.00
10	Pipe - (481)	15.96	2781.35	2781.33	0.1300	36.000	0.0120	0.6000	0.6000	0.00
11	Pipe - (482)	53.87	2781.33	2781.26	0.1300	36.000	0.0120	0.6000	0.6000	0.00
12	Pipe - (483)	161.58	2781.26	2781.05	0.1300	36.000	0.0120	0.6000	0.6000	0.00
13	Pipe - (484)	5.01	2781.05	2781.04	0.1300	36.000	0.0120	0.6000	0.6000	0.00
14	Pipe - (484) (1)	4.99	2781.02	2781.01	0.1200	36.000	0.0120	0.6000	0.6000	0.00
15	Pipe - (484) (2)	18.27	2781.04	2781.02	0.1300	36.000	0.0120	0.6000	0.6000	0.00
16	Pipe - (485)	55.82	2781.01	2780.94	0.1300	36.000	0.0120	0.6000	0.6000	0.00
17	Pipe - (486)	10.71	2780.94	2780.92	0.1400	36.000	0.0120	0.6000	0.6000	0.00
18	Pipe - (487)	82.44	2780.92	2780.81	0.1300	36.000	0.0120	0.6000	0.6000	0.00
19	Pipe - (488)	47.05	2780.81	2780.75	0.1400	36.000	0.0120	0.6000	0.6000	0.00
20	Pipe - (489)	124.53	2780.75	2780.59	0.1300	36.000	0.0120	0.6000	0.6000	0.00
21	Pipe - (490)	71.39	2780.59	2780.49	0.1300	36.000	0.0120	0.6000	0.6000	0.00
22	Pipe - (491)	4.00	2780.49	2780.49	0.1200	36.000	0.0120	0.6000	0.6000	0.00
23	Pipe - (491) (1)	19.58	2780.49	2780.46	0.1300	36.000	0.0120	0.6000	0.6000	0.00
24	Pipe - (492)	129.75	2780.46	2780.29	0.1300	36.000	0.0120	0.6000	0.6000	0.00
25	Pipe - (493)	228.74	2780.29	2779.99	0.1300	36.000	0.0120	0.6000	0.6000	0.00
26	Pipe - (494)	146.26	2779.99	2779.79	0.1300	36.000	0.0120	0.6000	0.6000	0.00
27	Pipe - (495)	65.27	2779.79	2779.71	0.1300	36.000	0.0120	0.6000	0.6000	0.00
28	Pipe - (496)	165.78	2779.71	2779.49	0.1300	36.000	0.0120	0.6000	0.6000	0.00
29	Pipe - (497)	151.42	2779.49	2779.29	0.1300	36.000	0.0120	0.6000	0.6000	0.00
30	Pipe - (498)	127.78	2779.29	2779.12	0.1300	36.000	0.0120	0.6000	0.6000	0.00
31	Pipe - (499)	205.73	2779.12	2778.85	0.1300	36.000	0.0120	0.6000	0.6000	0.00
32	Pipe - (500)	91.40	2778.85	2778.73	0.1300	36.000	0.0120	0.6000	0.6000	0.00
33	Pipe - (501)	66.21	2778.73	2778.64	0.1300	36.000	0.0120	0.6000	0.6000	0.00
34	Pipe - (502)	8.52	2778.64	2778.63	0.1300	36.000	0.0120	0.6000	0.6000	0.00
35	Pipe - (503)	20.15	2778.63	2778.60	0.1300	36.000	0.0120	0.6000	0.6000	0.00
36	Pipe - (504)	170.01	2778.60	2778.38	0.1300	36.000	0.0120	0.6000	0.6000	0.00
37	Pipe - (504) (1)	71.15	2778.38	2778.28	0.1300	36.000	0.0120	0.6000	0.6000	0.00
38	Pipe - (505)	257.09	2778.28	2777.94	0.1300	36.000	0.0120	0.6000	0.6000	0.00
39	Pipe - (506)	118.12	2777.94	2777.79	0.1300	36.000	0.0120	0.6000	0.6000	0.00
40	Pipe - (507)	42.41	2777.79	2777.73	0.1300	36.000	0.0120	0.6000	0.6000	0.00
41	Pipe - (508)	15.63	2777.73	2777.71	0.1400	36.000	0.0120	0.6000	0.6000	0.00
42	Pipe - (509)	48.21	2777.71	2777.65	0.1300	36.000	0.0120	0.6000	0.6000	0.00
43	Pipe - (510)	11.23	2777.65	2777.63	0.1400	36.000	0.0120	0.6000	0.6000	0.00
44	Pipe - (511)	39.73	2777.63	2777.58	0.1300	36.000	0.0120	0.6000	0.6000	0.00
45	Pipe - (512)	61.53	2777.58	2777.50	0.1300	36.000	0.0120	0.6000	0.6000	0.00
46	Pipe - (513)	50.92	2777.50	2777.43	0.1300	36.000	0.0120	0.6000	0.6000	0.00
47	Pipe - (514)	67.59	2777.43	2777.34	0.1300	36.000	0.0120	0.6000	0.6000	0.00
48	Pipe - (515)	20.43	2777.34	2777.32	0.1300	36.000	0.0120	0.6000	0.6000	0.00
49	Pipe - (516)	151.33	2777.32	2777.11	0.1400	36.000	0.0120	0.6000	0.6000	0.00
50	Pipe - (517)	41.73	2777.11	2777.06	0.1200	36.000	0.0120	0.6000	0.6000	0.00

# Pipe Results

SN Element ID	Peak Flow	Design Flow Capacity	Peak Flow/ Design Flow Ratio	Peak Flow Velocity	Travel Time	Peak Flow Depth	Peak Flow Depth/ Total Depth Ratio	Froude Number	Reported Condition
	(cfs)	(cfs)		(ft/sec)	(min)	(ft)			
1 Pipe - (472)ExCMPtoRemain	24.00	51.59	0.47	4.03	0.38	1.92	0.48		Calculated
2 Pipe - (473)ExWoodFlumeToRemain	24.00	67.41	0.36	4.05	0.12	1.18	0.39		Calculated
3 Pipe - (474)ExCMPtoRemain	24.00	26.30	0.91	2.37	1.48	3.00	0.75		Calculated
4 Pipe - (475)	24.00	27.82	0.86	4.43	0.02	2.15	0.72		Calculated
5 Pipe - (476)	24.00	26.26	0.91	4.21	0.14	2.26	0.75		Calculated
6 Pipe - (477)	24.00	26.12	0.92	4.19	0.41	2.27	0.76		Calculated
7 Pipe - (478)	24.00	26.27	0.91	4.21	0.27	2.26	0.75		Calculated
8 Pipe - (479)	24.00	26.27	0.91	4.21	0.44	2.26	0.75		Calculated
9 Pipe - (480)	24.00	26.25	0.91	4.21	0.33	2.26	0.75		Calculated
10 Pipe - (481)	24.00	26.34	0.91	4.22	0.06	2.25	0.75		Calculated
11 Pipe - (482)	24.00	26.25	0.91	4.21	0.21	2.26	0.75		Calculated
12 Pipe - (483)	24.00	26.27	0.91	4.21	0.64	2.26	0.75		Calculated
13 Pipe - (484)	24.00	26.24	0.91	4.21	0.02	2.26	0.75		Calculated
14 Pipe - (484) (1)	24.00	25.46	0.94	4.09	0.02	2.32	0.77		Calculated
15 Pipe - (484) (2)	24.00	26.24	0.91	4.21	0.07	2.26	0.75		Calculated
16 Pipe - (485)	24.00	26.27	0.91	4.21	0.22	2.25	0.75		Calculated
17 Pipe - (486)	24.00	27.05	0.89	4.32	0.04	2.20	0.73		Calculated
18 Pipe - (487)	24.00	26.26	0.91	4.21	0.33	2.26	0.75		Calculated
19 Pipe - (488)	24.00	26.88	0.89	4.30	0.18	2.21	0.74		Calculated
20 Pipe - (489)	24.00	26.04	0.92	4.18	0.50	2.27	0.76		Calculated
21 Pipe - (490)	24.00	26.26	0.91	4.21	0.28	2.26	0.75		Calculated
22 Pipe - (491)	24.00	24.77	0.97	3.99	0.02	2.38	0.79		Calculated
23 Pipe - (491) (1)	24.00	26.28	0.91	4.21	0.08	2.25	0.75		Calculated
24 Pipe - (492)	24.00	26.26	0.91	4.21	0.51	2.26	0.75		Calculated
25 Pipe - (493)	24.00	26.26	0.91	4.21	0.91	2.26	0.75		Calculated
26 Pipe - (494)	24.00	26.27	0.91	4.21	0.58	2.26	0.75		Calculated
27 Pipe - (495)	24.00	26.26	0.91	4.21	0.26	2.26	0.75		Calculated
28 Pipe - (496)	24.00	26.27	0.91	4.21	0.66	2.26	0.75		Calculated
29 Pipe - (497)	24.00	26.26	0.91	4.21	0.60	2.26	0.75		Calculated
30 Pipe - (498)	24.00	26.26	0.91	4.21	0.51	2.26	0.75		Calculated
31 Pipe - (499)	24.00	26.27	0.91	4.21	0.81	2.26	0.75		Calculated
32 Pipe - (500)	24.00	26.26	0.91	4.21	0.36	2.26	0.75		Calculated
33 Pipe - (501)	24.00	26.25	0.91	4.21	0.26	2.26	0.75		Calculated
34 Pipe - (502)	24.00	26.32	0.91	4.22	0.03	2.25	0.75		Calculated
35 Pipe - (503)	24.00	26.26	0.91	4.21	0.08	2.26	0.75		Calculated
36 Pipe - (504)	24.00	26.25	0.91	4.21	0.67	2.26	0.75		Calculated
37 Pipe - (504) (1)	24.00	26.29	0.91	4.21	0.28	2.25	0.75		Calculated
38 Pipe - (505)	24.00	26.26	0.91	4.21	1.02	2.26	0.75		Calculated
39 Pipe - (506)	24.00	26.28	0.91	4.21	0.47	2.25	0.75		Calculated
40 Pipe - (507)	24.00	26.26	0.91	4.21	0.17	2.26	0.75		Calculated
41 Pipe - (508)	24.00	26.68	0.90	4.27	0.06	2.23	0.74		Calculated
42 Pipe - (509)	24.00	26.27	0.91	4.21	0.19	2.26	0.75		Calculated
43 Pipe - (510)	24.00	26.58	0.90	4.25	0.04	2.23	0.74		Calculated
44 Pipe - (511)	24.00	26.22	0.92	4.20	0.16	2.26	0.75		Calculated
45 Pipe - (512)	24.00	26.27	0.91	4.21	0.24	2.26	0.75		Calculated
46 Pipe - (513)	24.00	26.27	0.91	4.21	0.20	2.26	0.75		Calculated
47 Pipe - (514)	24.00	26.26	0.91	4.21	0.27	2.26	0.75		Calculated
48 Pipe - (515)	24.00	26.27	0.91	4.21	0.08	2.26	0.75		Calculated
49 Pipe - (516)	24.00	26.60	0.90	4.26	0.59	2.23	0.74		Calculated
50 Pipe - (517)	24.00	25.01	0.96	4.03	0.17	2.36	0.79		Calculated

## Project Description

File Name ..... Section6.SPF

## Number of Elements

	Qty
Rain Gages .....	0
Subbasins.....	0
Nodes.....	27
<i>Junctions</i> .....	26
<i>Outfalls</i> .....	1
<i>Flow Diversions</i> .....	0
<i>Inlets</i> .....	0
<i>Storage Nodes</i> .....	0
Links.....	26
<i>Channels</i> .....	0
<i>Pipes</i> .....	26
<i>Pumps</i> .....	0
<i>Orifices</i> .....	0
<i>Weirs</i> .....	0
<i>Outlets</i> .....	0
Pollutants .....	0
Land Uses .....	0

## Node Summary

SN	Element ID	Element Type	Invert Elevation	Ground/Rim (Max) Elevation	Initial Water Elevation	Surcharge Elevation	Peak Inflow	Max HGL Elevation Attained
			(ft)	(ft)	(ft)	(ft)	(cfs)	(ft)
1	Structure - (540)BeehiveSiphonOutlet	Junction	2775.25	2778.25	2773.93	2777.19	24.00	2777.49
2	Structure - (541)	Junction	2775.15	2778.15	2775.11	2778.37	24.00	2777.43
3	Structure - (542)	Junction	2775.07	2778.33	2775.07	2778.33	24.00	2777.56
4	Structure - (543)	Junction	2775.05	2778.31	2775.05	2778.31	24.00	2777.54
5	Structure - (545)	Junction	2774.87	2778.12	2774.86	2778.12	24.00	2777.30
6	Structure - (546)	Junction	2774.86	2778.12	2774.86	2778.12	24.00	2777.24
7	Structure - (547)	Junction	2774.80	2778.06	2774.80	2778.06	24.00	2777.26
8	Structure - (548)	Junction	2774.71	2777.97	2774.71	2777.97	24.00	2777.17
9	Structure - (549)AP	Junction	2774.68	2779.22	2774.68	2779.22	24.00	2777.11
10	Structure - (550)	Junction	2774.65	2778.98	2774.65	2778.98	24.00	2777.05
11	Structure - (551)	Junction	2774.53	2777.53	2774.48	2777.74	24.00	2776.93
12	Structure - (552)	Junction	2774.45	2777.45	2774.42	2777.68	24.00	2776.70
13	Structure - (553)	Junction	2774.40	2777.40	2774.39	2777.65	24.00	2776.58
14	Structure - (554)	Junction	2774.38	2777.64	2774.38	2777.64	24.00	2776.84
15	Structure - (555)	Junction	2774.32	2777.58	2774.32	2777.58	24.00	2776.78
16	Structure - (556)	Junction	2774.31	2777.57	2774.31	2777.57	24.00	2777.11
17	Structure - (557)	Junction	2774.30	2777.56	2774.30	2777.56	24.00	2777.10
18	Structure - (558)	Junction	2774.26	2777.52	2774.26	2777.52	24.00	2776.77
19	Structure - (559)	Junction	2774.16	2777.42	2774.16	2777.42	24.00	2776.58
20	Structure - (560)	Junction	2774.05	2777.31	2774.05	2777.31	24.00	2776.53
21	Structure - (561)AP	Junction	2773.93	2778.44	2773.93	2778.44	24.00	2776.41
22	Structure - (562)	Junction	2773.56	2776.82	2773.56	2776.82	24.00	2776.02
23	Structure - (563)_Transition	Junction	2773.31	2779.09	2773.31	2779.09	24.00	2775.77
24	Structure - (565)Transition	Junction	2772.98	2778.76	2772.98	2778.76	24.00	2774.95
25	Structure - (566)	Junction	2772.76	2776.02	2772.76	2776.02	24.00	2774.73
26	Structure - (567)	Junction	2772.25	2775.51	2772.25	2775.51	24.00	2774.18
27	Out-ForbestownWaterTreatment	Outfall	2771.99				24.00	2773.93

## 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	Design Flow Capacity	Peak Flow Velocity	Peak Flow Reported Depth	Condition
				(ft)	(ft)	(ft)	(%)	(in)		(cfs)	(cfs)	(ft/sec)	(ft)	
1	Pipe - (518)	Pipe Structure - (540)	BeehiveSiphonOutlet Structure - (541)	112.37	2775.25	2775.15	0.0900	42.000	0.0120	24.00	32.51	3.70	2.24	Calculated
2	Pipe - (519)	Pipe Structure - (541)	Structure - (542)	94.52	2775.15	2775.07	0.0800	42.000	0.0120	24.00	31.71	3.62	2.28	Calculated
3	Pipe - (520)	Pipe Structure - (542)	Structure - (543)	30.12	2775.07	2775.05	0.0700	42.000	0.0120	24.00	28.09	3.28	2.49	Calculated
4	Pipe - (522)	Pipe Structure - (543)	Structure - (545)	255.00	2775.05	2774.87	0.0700	42.000	0.0120	24.00	28.96	3.36	2.43	Calculated
5	Pipe - (523)	Pipe Structure - (545)	Structure - (546)	20.06	2774.89	2774.86	0.1500	42.000	0.0120	24.00	42.15	4.52	1.89	Calculated
6	Pipe - (524)	Pipe Structure - (546)	Structure - (547)	79.90	2774.86	2774.80	0.0800	42.000	0.0120	24.00	29.87	3.45	2.38	Calculated
7	Pipe - (525)	Pipe Structure - (547)	Structure - (548)	131.12	2774.80	2774.71	0.0700	42.000	0.0120	24.00	28.56	3.32	2.46	Calculated
8	Pipe - (526)	Pipe Structure - (548)	Structure - (549)AP	42.25	2774.71	2774.68	0.0700	42.000	0.0120	24.00	29.04	3.37	2.43	Calculated
9	Pipe - (527)	Pipe Structure - (549)AP	Structure - (550)	40.88	2774.68	2774.65	0.0700	42.000	0.0120	24.00	29.53	3.42	2.40	Calculated
10	Pipe - (528)	Pipe Structure - (550)	Structure - (551)	164.97	2774.65	2774.53	0.0700	42.000	0.0120	24.00	29.40	3.41	2.40	Calculated
11	Pipe - (529)	Pipe Structure - (551)	Structure - (552)	91.54	2774.53	2774.45	0.0900	42.000	0.0120	24.00	32.22	3.67	2.25	Calculated
12	Pipe - (530)	Pipe Structure - (552)	Structure - (553)	44.86	2774.45	2774.40	0.1100	42.000	0.0120	24.00	36.39	4.04	2.08	Calculated
13	Pipe - (531)	Pipe Structure - (553)	Structure - (554)	20.84	2774.40	2774.38	0.1000	42.000	0.0120	24.00	33.77	3.81	2.18	Calculated
14	Pipe - (532)	Pipe Structure - (554)	Structure - (555)	87.74	2774.38	2774.32	0.0700	42.000	0.0120	24.00	28.50	3.32	2.46	Calculated
15	Pipe - (533)	Pipe Structure - (555)	Structure - (556)	11.90	2774.32	2774.31	0.0800	42.000	0.0120	24.00	31.60	3.61	2.28	Calculated
16	Pipe - (534)	Pipe Structure - (556)	Structure - (557)	19.74	2774.31	2774.30	0.0500	42.000	0.0120	24.00	24.53	2.90	2.80	Calculated
17	Pipe - (535)	Pipe Structure - (557)	Structure - (558)	61.70	2774.30	2774.26	0.0600	42.000	0.0120	24.00	27.75	3.24	2.51	Calculated
18	Pipe - (536)	Pipe Structure - (558)	Structure - (559)	136.54	2774.26	2774.16	0.0700	42.000	0.0120	24.00	29.50	3.42	2.40	Calculated
19	Pipe - (537)	Pipe Structure - (559)	Structure - (560)	154.23	2774.16	2774.05	0.0700	42.000	0.0120	24.00	29.11	3.38	2.42	Calculated
20	Pipe - (538)	Pipe Structure - (560)	Structure - (561)AP	177.93	2774.05	2773.93	0.0700	42.000	0.0120	24.00	28.31	3.30	2.48	Calculated
21	Pipe - (539)	Pipe Structure - (561)AP	Structure - (562)	529.31	2773.93	2773.56	0.0700	42.000	0.0120	24.00	28.82	3.35	2.44	Calculated
22	Pipe - (541)	Pipe Structure - (562)	Structure - (563)_Transition	364.19	2773.56	2773.31	0.0700	42.000	0.0120	24.00	28.56	3.32	2.46	Calculated
23	Pipe - (542)-RCP	Pipe Structure - (563)_Transition	Structure - (565)Transition	36.90	2773.31	2772.98	0.8900	48.000	0.0150	24.00	117.72	7.35	1.23	Calculated
24	Pipe - (543)	Pipe Structure - (565)Transition	Structure - (566)	167.99	2772.98	2772.76	0.1300	42.000	0.0120	24.00	39.44	4.30	1.97	Calculated
25	Pipe - (544)	Pipe Structure - (566)	Structure - (567)	363.60	2772.76	2772.25	0.1400	42.000	0.0120	24.00	40.82	4.41	1.93	Calculated
26	Pipe - (545)	Pipe Structure - (567)	Out-ForbestownWaterTreatment	184.43	2772.25	2771.99	0.1400	42.000	0.0120	24.00	40.71	4.40	1.93	Calculated

## Junction Input

SN	Element ID	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Initial Water Elevation (ft)	Initial Water Depth (ft)	Surcharge Elevation (ft)	Surcharge Depth (ft)	Ponded Area (ft²)	Minimum Pipe Cover (in)
1	Structure - (540)BeehiveSiphonOutlet	2775.25	2778.25	3.00	2773.93	-1.32	2777.19	-1.07	0.00	0.00
2	Structure - (541)	2775.15	2778.15	3.00	2775.11	-0.04	2778.37	0.22	0.00	0.00
3	Structure - (542)	2775.07	2778.33	3.26	2775.07	0.00	2778.33	0.00	0.00	0.00
4	Structure - (543)	2775.05	2778.31	3.26	2775.05	0.00	2778.31	0.00	0.00	0.00
5	Structure - (545)	2774.87	2778.12	3.25	2774.86	-0.01	2778.12	0.00	0.00	0.00
6	Structure - (546)	2774.86	2778.12	3.26	2774.86	0.00	2778.12	0.00	0.00	0.00
7	Structure - (547)	2774.80	2778.06	3.26	2774.80	0.00	2778.06	0.00	0.00	0.00
8	Structure - (548)	2774.71	2777.97	3.26	2774.71	0.00	2777.97	0.00	0.00	0.00
9	Structure - (549)AP	2774.68	2779.22	4.54	2774.68	0.00	2779.22	0.00	0.00	0.00
10	Structure - (550)	2774.65	2778.98	4.33	2774.65	0.00	2778.98	0.00	0.00	0.00
11	Structure - (551)	2774.53	2777.53	3.00	2774.48	-0.05	2777.74	0.21	0.00	0.00
12	Structure - (552)	2774.45	2777.45	3.00	2774.42	-0.03	2777.68	0.23	0.00	0.00
13	Structure - (553)	2774.40	2777.40	3.00	2774.39	-0.01	2777.65	0.25	0.00	0.00
14	Structure - (554)	2774.38	2777.64	3.26	2774.38	0.00	2777.64	0.00	0.00	0.00
15	Structure - (555)	2774.32	2777.58	3.26	2774.32	0.00	2777.58	0.00	0.00	0.00
16	Structure - (556)	2774.31	2777.57	3.26	2774.31	0.00	2777.57	0.00	0.00	0.00
17	Structure - (557)	2774.30	2777.56	3.26	2774.30	0.00	2777.56	0.00	0.00	0.00
18	Structure - (558)	2774.26	2777.52	3.26	2774.26	0.00	2777.52	0.00	0.00	0.00
19	Structure - (559)	2774.16	2777.42	3.26	2774.16	0.00	2777.42	0.00	0.00	0.00
20	Structure - (560)	2774.05	2777.31	3.26	2774.05	0.00	2777.31	0.00	0.00	0.00
21	Structure - (561)AP	2773.93	2778.44	4.51	2773.93	0.00	2778.44	0.00	0.00	0.00
22	Structure - (562)	2773.56	2776.82	3.26	2773.56	0.00	2776.82	0.00	0.00	0.00
23	Structure - (563)_Transition	2773.31	2779.09	5.78	2773.31	0.00	2779.09	0.00	0.00	0.00
24	Structure - (565)Transition	2772.98	2778.76	5.78	2772.98	0.00	2778.76	0.00	0.00	0.00
25	Structure - (566)	2772.76	2776.02	3.26	2772.76	0.00	2776.02	0.00	0.00	0.00
26	Structure - (567)	2772.25	2775.51	3.26	2772.25	0.00	2775.51	0.00	0.00	0.00

## Junction Results

SN Element ID	Peak Inflow	Max HGL Elevation	Max HGL Depth	Max Surcharge Depth	Min Freeboard	Average HGL Elevation	Average HGL Depth	Total Flooded Volume
	(cfs)	(ft)	(ft)	Attained (ft)	Attained (ft)	(ft)	(ft)	(ac-in)
1 Structure - (540)BeehiveSiphonOutlet	24.00	2777.49	2.24	0.00	1.26	2777.49	2.24	0.00
2 Structure - (541)	24.00	2777.43	2.28	0.00	1.22	2777.43	2.28	0.00
3 Structure - (542)	24.00	2777.56	2.49	0.00	1.01	2777.56	2.49	0.00
4 Structure - (543)	24.00	2777.54	2.49	0.00	1.01	2777.54	2.49	0.00
5 Structure - (545)	24.00	2777.30	2.43	0.00	1.09	2777.30	2.43	0.00
6 Structure - (546)	24.00	2777.24	2.38	0.00	1.12	2777.24	2.38	0.00
7 Structure - (547)	24.00	2777.26	2.46	0.00	1.04	2777.26	2.46	0.00
8 Structure - (548)	24.00	2777.17	2.46	0.00	1.04	2777.17	2.46	0.00
9 Structure - (549)AP	24.00	2777.11	2.43	0.00	2.11	2777.11	2.43	0.00
10 Structure - (550)	24.00	2777.05	2.40	0.00	1.92	2777.05	2.40	0.00
11 Structure - (551)	24.00	2776.93	2.40	0.00	1.10	2776.93	2.40	0.00
12 Structure - (552)	24.00	2776.70	2.25	0.00	1.25	2776.70	2.25	0.00
13 Structure - (553)	24.00	2776.58	2.18	0.00	1.32	2776.58	2.18	0.00
14 Structure - (554)	24.00	2776.84	2.46	0.00	1.04	2776.84	2.46	0.00
15 Structure - (555)	24.00	2776.78	2.46	0.00	1.04	2776.78	2.46	0.00
16 Structure - (556)	24.00	2777.11	2.80	0.00	0.70	2777.11	2.80	0.00
17 Structure - (557)	24.00	2777.10	2.80	0.00	0.70	2777.10	2.80	0.00
18 Structure - (558)	24.00	2776.77	2.51	0.00	0.99	2776.77	2.51	0.00
19 Structure - (559)	24.00	2776.58	2.42	0.00	1.08	2776.58	2.42	0.00
20 Structure - (560)	24.00	2776.53	2.48	0.00	1.02	2776.53	2.48	0.00
21 Structure - (561)AP	24.00	2776.41	2.48	0.00	2.03	2776.41	2.48	0.00
22 Structure - (562)	24.00	2776.02	2.46	0.00	1.04	2776.02	2.46	0.00
23 Structure - (563)_Transition	24.00	2775.77	2.46	0.00	3.32	2775.77	2.46	0.00
24 Structure - (565)Transition	24.00	2774.95	1.97	0.00	3.81	2774.95	1.97	0.00
25 Structure - (566)	24.00	2774.73	1.97	0.00	1.53	2774.73	1.97	0.00
26 Structure - (567)	24.00	2774.18	1.93	0.00	1.57	2774.18	1.93	0.00



# Pipe Input

SN	Element ID	Length (ft)	Inlet Invert Elevation (ft)	Outlet Invert Elevation (ft)	Average Slope (%)	Pipe Diameter or Height (in)	Manning's Roughness	Entrance Losses	Exit/Bend Losses	Initial Flow (cfs)
1	Pipe - (518)	112.37	2775.25	2775.15	0.0900	42.000	0.0120	0.6000	0.6000	0.00
2	Pipe - (519)	94.52	2775.15	2775.07	0.0800	42.000	0.0120	0.6000	0.6000	0.00
3	Pipe - (520)	30.12	2775.07	2775.05	0.0700	42.000	0.0120	0.6000	0.6000	0.00
4	Pipe - (522)	255.00	2775.05	2774.87	0.0700	42.000	0.0120	0.6000	0.6000	0.00
5	Pipe - (523)	20.06	2774.89	2774.86	0.1500	42.000	0.0120	0.6000	0.6000	0.00
6	Pipe - (524)	79.90	2774.86	2774.80	0.0800	42.000	0.0120	0.6000	0.6000	0.00
7	Pipe - (525)	131.12	2774.80	2774.71	0.0700	42.000	0.0120	0.6000	0.6000	0.00
8	Pipe - (526)	42.25	2774.71	2774.68	0.0700	42.000	0.0120	0.6000	0.6000	0.00
9	Pipe - (527)	40.88	2774.68	2774.65	0.0700	42.000	0.0120	0.6000	0.6000	0.00
10	Pipe - (528)	164.97	2774.65	2774.53	0.0700	42.000	0.0120	0.6000	0.6000	0.00
11	Pipe - (529)	91.54	2774.53	2774.45	0.0900	42.000	0.0120	0.6000	0.6000	0.00
12	Pipe - (530)	44.86	2774.45	2774.40	0.1100	42.000	0.0120	0.6000	0.6000	0.00
13	Pipe - (531)	20.84	2774.40	2774.38	0.1000	42.000	0.0120	0.6000	0.6000	0.00
14	Pipe - (532)	87.74	2774.38	2774.32	0.0700	42.000	0.0120	0.6000	0.6000	0.00
15	Pipe - (533)	11.90	2774.32	2774.31	0.0800	42.000	0.0120	0.6000	0.6000	0.00
16	Pipe - (534)	19.74	2774.31	2774.30	0.0500	42.000	0.0120	0.6000	0.6000	0.00
17	Pipe - (535)	61.70	2774.30	2774.26	0.0600	42.000	0.0120	0.6000	0.6000	0.00
18	Pipe - (536)	136.54	2774.26	2774.16	0.0700	42.000	0.0120	0.6000	0.6000	0.00
19	Pipe - (537)	154.23	2774.16	2774.05	0.0700	42.000	0.0120	0.6000	0.6000	0.00
20	Pipe - (538)	177.93	2774.05	2773.93	0.0700	42.000	0.0120	0.6000	0.6000	0.00
21	Pipe - (539)	529.31	2773.93	2773.56	0.0700	42.000	0.0120	0.6000	0.6000	0.00
22	Pipe - (541)	364.19	2773.56	2773.31	0.0700	42.000	0.0120	0.6000	0.6000	0.00
23	Pipe - (542)-RCP	36.90	2773.31	2772.98	0.8900	48.000	0.0150	0.6000	0.6000	0.00
24	Pipe - (543)	167.99	2772.98	2772.76	0.1300	42.000	0.0120	0.6000	0.6000	0.00
25	Pipe - (544)	363.60	2772.76	2772.25	0.1400	42.000	0.0120	0.6000	0.6000	0.00
26	Pipe - (545)	184.43	2772.25	2771.99	0.1400	42.000	0.0120	0.6000	0.6000	0.00

## Pipe Results

SN Element ID	Peak Flow	Design Flow Capacity	Peak Flow/ Design Flow Ratio	Peak Flow Velocity	Travel Time	Peak Flow Depth	Peak Flow Depth/ Total Depth Ratio	Froude Number	Reported Condition
	(cfs)	(cfs)		(ft/sec)	(min)	(ft)			
1 Pipe - (518)	24.00	32.51	0.74	3.70	0.51	2.24	0.64		Calculated
2 Pipe - (519)	24.00	31.71	0.76	3.62	0.44	2.28	0.65		Calculated
3 Pipe - (520)	24.00	28.09	0.85	3.28	0.15	2.49	0.71		Calculated
4 Pipe - (522)	24.00	28.96	0.83	3.36	1.26	2.43	0.69		Calculated
5 Pipe - (523)	24.00	42.15	0.57	4.52	0.07	1.89	0.54		Calculated
6 Pipe - (524)	24.00	29.87	0.80	3.45	0.39	2.38	0.68		Calculated
7 Pipe - (525)	24.00	28.56	0.84	3.32	0.66	2.46	0.70		Calculated
8 Pipe - (526)	24.00	29.04	0.83	3.37	0.21	2.43	0.69		Calculated
9 Pipe - (527)	24.00	29.53	0.81	3.42	0.20	2.40	0.68		Calculated
10 Pipe - (528)	24.00	29.40	0.82	3.41	0.81	2.40	0.69		Calculated
11 Pipe - (529)	24.00	32.22	0.74	3.67	0.42	2.25	0.64		Calculated
12 Pipe - (530)	24.00	36.39	0.66	4.04	0.19	2.08	0.59		Calculated
13 Pipe - (531)	24.00	33.77	0.71	3.81	0.09	2.18	0.62		Calculated
14 Pipe - (532)	24.00	28.50	0.84	3.32	0.44	2.46	0.70		Calculated
15 Pipe - (533)	24.00	31.60	0.76	3.61	0.05	2.28	0.65		Calculated
16 Pipe - (534)	24.00	24.53	0.98	2.90	0.11	2.80	0.80		Calculated
17 Pipe - (535)	24.00	27.75	0.86	3.24	0.32	2.51	0.72		Calculated
18 Pipe - (536)	24.00	29.50	0.81	3.42	0.67	2.40	0.69		Calculated
19 Pipe - (537)	24.00	29.11	0.82	3.38	0.76	2.42	0.69		Calculated
20 Pipe - (538)	24.00	28.31	0.85	3.30	0.90	2.48	0.71		Calculated
21 Pipe - (539)	24.00	28.82	0.83	3.35	2.63	2.44	0.70		Calculated
22 Pipe - (541)	24.00	28.56	0.84	3.32	1.83	2.46	0.70		Calculated
23 Pipe - (542)-RCP	24.00	117.72	0.20	7.35	0.08	1.23	0.31		Calculated
24 Pipe - (543)	24.00	39.44	0.61	4.30	0.65	1.97	0.56		Calculated
25 Pipe - (544)	24.00	40.82	0.59	4.41	1.37	1.93	0.55		Calculated
26 Pipe - (545)	24.00	40.71	0.59	4.40	0.70	1.93	0.55		Calculated

## **Exhibit D**

*Storm and Sanitary Analysis 2018 Junction and Pipe Report (n=0.0013)*

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## Project Description

File Name ..... Section1-0.013.SPF

## Number of Elements

	Qty
Rain Gages .....	0
Subbasins.....	0
Nodes.....	78
<i>Junctions</i> .....	77
<i>Outfalls</i> .....	1
<i>Flow Diversions</i> .....	0
<i>Inlets</i> .....	0
<i>Storage Nodes</i> .....	0
Links.....	77
<i>Channels</i> .....	0
<i>Pipes</i> .....	77
<i>Pumps</i> .....	0
<i>Orifices</i> .....	0
<i>Weirs</i> .....	0
<i>Outlets</i> .....	0
Pollutants .....	0
Land Uses .....	0

## Node Summary

SN	Element ID	Element Type	Invert Elevation	Ground/Rim (Max) Elevation	Initial Water Elevation	Surcharge Elevation	Peak Inflow	Max HGL Elevation Attained
			(ft)	(ft)	(ft)	(ft)	(cfs)	(ft)
1	SF14 - (1)	Junction	3170.00	3172.99	3169.99	3173.25	24.00	3172.36
2	Structure - (10)	Junction	3169.28	3172.28	3169.28	3172.53	24.00	3171.67
3	Structure - (11)	Junction	3169.22	3172.22	3169.22	3172.45	24.00	3171.56
4	Structure - (12)	Junction	3169.15	3172.15	3169.15	3172.42	24.00	3171.52
5	Structure - (13)	Junction	3169.10	3172.10	3169.10	3172.36	24.00	3171.46
6	Structure - (14)	Junction	3168.91	3171.91	3168.91	3172.17	24.00	3171.27
7	Structure - (15)-AP	Junction	3168.80	3173.30	3168.80	3183.30	24.00	3171.16
8	Structure - (16)	Junction	3168.70	3171.70	3168.70	3171.96	24.00	3171.06
9	Structure - (17)	Junction	3168.64	3171.64	3168.64	3171.90	24.00	3171.01
10	Structure - (18)	Junction	3168.60	3171.60	3168.60	3171.86	24.00	3170.96
11	Structure - (19)	Junction	3168.56	3171.56	3168.56	3171.81	24.00	3170.92
12	Structure - (2)	Junction	3169.98	3172.97	3169.97	3173.23	24.00	3172.34
13	Structure - (21)	Junction	3168.45	3171.45	3168.45	3171.71	24.00	3170.82
14	Structure - (22)	Junction	3168.35	3171.35	3168.35	3171.61	24.00	3170.71
15	Structure - (23)	Junction	3167.97	3170.97	3167.97	3171.22	24.00	3170.33
16	Structure - (24)	Junction	3167.92	3170.92	3167.92	3171.18	24.00	3170.28
17	Structure - (25)	Junction	3167.78	3170.78	3167.78	3171.04	24.00	3170.14
18	Structure - (26)	Junction	3167.75	3170.75	3167.75	3171.01	24.00	3170.11
19	Structure - (27)	Junction	3167.68	3170.68	3167.68	3170.93	24.00	3170.03
20	Structure - (28)	Junction	3167.59	3170.59	3167.59	3170.84	24.00	3169.95
21	Structure - (29)	Junction	3167.53	3170.53	3167.53	3170.79	24.00	3169.89
22	Structure - (3)	Junction	3169.93	3172.93	3169.93	3173.18	24.00	3172.25
23	Structure - (30)-AP	Junction	3167.46	3171.40	3167.46	3171.40	24.00	3169.82
24	Structure - (31)	Junction	3167.30	3170.30	3167.30	3170.56	24.00	3169.66
25	Structure - (32)	Junction	3167.22	3170.22	3167.22	3170.47	24.00	3169.58
26	Structure - (33)	Junction	3167.12	3170.12	3167.12	3170.38	24.00	3169.48
27	Structure - (34)	Junction	3167.06	3170.06	3167.06	3170.32	24.00	3169.42
28	Structure - (35)	Junction	3166.95	3169.95	3166.95	3170.21	24.00	3169.31
29	Structure - (36)	Junction	3166.87	3169.87	3166.87	3170.12	24.00	3169.24
30	Structure - (37)	Junction	3166.83	3169.83	3166.83	3170.09	24.00	3169.20
31	Structure - (38)	Junction	3166.79	3169.79	3166.79	3170.05	24.00	3169.15
32	Structure - (39)	Junction	3166.75	3169.75	3166.75	3170.01	24.00	3169.12
33	Structure - (40)	Junction	3166.71	3169.71	3166.71	3169.97	24.00	3169.07
34	Structure - (41)	Junction	3166.62	3169.62	3166.62	3169.87	24.00	3168.98
35	Structure - (42)	Junction	3166.56	3169.56	3166.56	3169.82	24.00	3168.93
36	Structure - (43)	Junction	3166.54	3169.54	3166.54	3169.79	24.00	3168.90
37	Structure - (44)	Junction	3166.47	3169.47	3166.47	3169.73	24.00	3168.83
38	Structure - (45)	Junction	3166.21	3169.21	3166.21	3169.46	24.00	3168.56
39	Structure - (46)	Junction	3166.10	3169.10	3166.10	3169.35	24.00	3168.45
40	Structure - (460)	Junction	3168.50	3171.50	3168.50	3171.76	24.00	3170.87
41	Structure - (47)-AP	Junction	3166.06	3169.99	3166.06	3169.99	24.00	3168.42
42	Structure - (48)	Junction	3165.80	3168.80	3165.80	3169.06	24.00	3168.16
43	Structure - (49)	Junction	3165.76	3168.76	3165.76	3169.01	24.00	3168.12
44	Structure - (5)	Junction	3169.81	3172.81	3169.81	3173.07	24.00	3172.17
45	Structure - (50)	Junction	3165.62	3168.62	3165.62	3168.87	24.00	3167.97
46	Structure - (51)	Junction	3165.51	3168.51	3165.51	3168.76	24.00	3167.86
47	Structure - (54)	Junction	3164.29	3167.29	3164.29	3167.55	24.00	3166.39
48	Structure - (55)	Junction	3164.19	3167.19	3164.19	3167.45	24.00	3166.30
49	Structure - (56)	Junction	3164.12	3167.12	3164.12	3167.38	24.00	3166.23
50	Structure - (57)	Junction	3164.01	3167.01	3164.01	3167.27	24.00	3166.11
51	Structure - (58)	Junction	3163.91	3166.91	3163.91	3167.17	24.00	3166.01
52	Structure - (582)	Junction	3165.44	3170.44	3165.44	3170.77	24.00	3167.79
53	Structure - (583)	Junction	3165.14	3170.14	3165.14	3170.46	24.00	3166.58
54	Structure - (584)	Junction	3164.85	3169.85	3164.85	3170.17	24.00	3166.29
55	Structure - (585)	Junction	3164.36	3169.36	3164.36	3169.69	24.00	3166.46
56	Structure - (59)	Junction	3163.88	3166.88	3163.88	3167.14	24.00	3165.99
57	Structure - (6)	Junction	3169.72	3172.72	3169.72	3172.98	24.00	3172.08
58	Structure - (60)	Junction	3163.86	3166.86	3163.86	3167.11	24.00	3165.96
59	Structure - (61)	Junction	3163.82	3166.82	3163.82	3167.07	24.00	3165.92
60	Structure - (62)	Junction	3163.61	3166.61	3163.61	3166.86	24.00	3165.71
61	Structure - (63)-AP	Junction	3163.55	3167.90	3163.55	3167.90	24.00	3165.65
62	Structure - (64)	Junction	3163.47	3166.47	3163.47	3166.72	24.00	3165.57
63	Structure - (65)	Junction	3163.37	3166.37	3163.37	3166.63	24.00	3165.47
64	Structure - (66)	Junction	3163.17	3166.17	3163.17	3166.43	24.00	3165.27
65	Structure - (67)	Junction	3163.09	3166.09	3163.09	3166.35	24.00	3165.19
66	Structure - (68)	Junction	3162.71	3165.71	3162.71	3165.97	24.00	3164.81
67	Structure - (69)	Junction	3162.42	3165.42	3162.42	3165.67	24.00	3164.52
68	Structure - (7)	Junction	3169.61	3172.61	3169.61	3172.87	24.00	3171.97
69	Structure - (70)	Junction	3162.24	3165.24	3162.24	3165.50	24.00	3164.34
70	Structure - (71)-AP	Junction	3162.06	3166.50	3162.06	3166.50	24.00	3164.16
71	Structure - (72)	Junction	3161.98	3164.98	3161.98	3165.24	24.00	3164.09
72	Structure - (73)	Junction	3161.71	3164.71	3161.71	3164.97	24.00	3163.87
73	Structure - (74)	Junction	3161.66	3164.66	3161.66	3164.92	24.00	3163.82
74	Structure - (75)	Junction	3161.55	3164.55	3161.55	3164.81	24.00	3163.71
75	Structure - (8)	Junction	3169.49	3172.49	3169.49	3172.75	24.00	3171.87
76	Structure - (80)	Junction	3165.77	3168.77	3165.77	3169.03	24.00	3168.13
77	Structure - (9)	Junction	3169.35	3172.35	3169.35	3172.60	24.00	3171.74
78	Out-OroleveSiphon - (75)	Outfall	3161.31				24.00	3163.47

# 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 (in)	Manning's Roughness	Peak Flow (cfs)	Design Flow Capacity (cfs)	Peak Flow Velocity (ft/sec)	Peak Flow Reported Depth (ft)	Condition
1	Pipe - (1)	SF14 - (1)	Structure - (2)	14.31	3170.00	3169.98	0.1400	36.000	0.0130	24.00	24.94	4.02	2.36	Calculated
2	Pipe - (10)	Structure - (9)	Structure - (10)	50.95	3169.35	3169.28	0.1400	36.000	0.0130	24.00	24.72	3.98	2.39	Calculated
3	Pipe - (11)	Structure - (10)	Structure - (11)	41.86	3169.28	3169.22	0.1400	36.000	0.0130	24.00	25.25	4.06	2.34	Calculated
4	Pipe - (12)	Structure - (11)	Structure - (12)	40.35	3169.22	3169.16	0.1400	36.000	0.0130	24.00	25.75	4.14	2.30	Calculated
5	Pipe - (13)	Structure - (12)	Structure - (13)	37.63	3169.16	3169.11	0.1400	36.000	0.0130	24.00	25.02	4.03	2.36	Calculated
6	Pipe - (14)	Structure - (13)	Structure - (14)	139.02	3169.11	3168.91	0.1400	36.000	0.0130	24.00	25.02	4.03	2.36	Calculated
7	Pipe - (15)	Structure - (14)	Structure - (15)-AP	82.15	3168.91	3168.80	0.1400	36.000	0.0130	24.00	25.02	4.03	2.36	Calculated
8	Pipe - (16)	Structure - (15)-AP	Structure - (16)	66.09	3168.80	3168.70	0.1400	36.000	0.0130	24.00	24.99	4.02	2.36	Calculated
9	Pipe - (17)	Structure - (16)	Structure - (17)	42.16	3168.70	3168.64	0.1400	36.000	0.0130	24.00	25.06	4.03	2.35	Calculated
10	Pipe - (18)	Structure - (17)	Structure - (18)	29.59	3168.64	3168.60	0.1400	36.000	0.0130	24.00	24.97	4.02	2.36	Calculated
11	Pipe - (19)	Structure - (18)	Structure - (19)	30.53	3168.60	3168.56	0.1400	36.000	0.0130	24.00	25.01	4.03	2.36	Calculated
12	Pipe - (2)	Structure - (2)	Structure - (3)	32.72	3169.98	3169.93	0.1700	36.000	0.0130	24.00	26.07	4.18	2.27	Calculated
13	Pipe - (20)	Structure - (19)	Structure - (460)	39.31	3168.56	3168.50	0.1400	36.000	0.0130	24.00	25.06	4.03	2.35	Calculated
14	Pipe - (20) (1)	Structure - (460)	Structure - (21)	35.92	3168.50	3168.45	0.1400	36.000	0.0130	24.00	24.96	4.02	2.36	Calculated
15	Pipe - (22)	Structure - (21)	Structure - (22)	70.89	3168.45	3168.35	0.1400	36.000	0.0130	24.00	25.06	4.03	2.35	Calculated
16	Pipe - (23)	Structure - (22)	Structure - (23)	275.47	3168.35	3167.97	0.1400	36.000	0.0130	24.00	25.02	4.03	2.36	Calculated
17	Pipe - (24)	Structure - (23)	Structure - (24)	29.65	3167.97	3167.92	0.1400	36.000	0.0130	24.00	24.99	4.02	2.36	Calculated
18	Pipe - (25)	Structure - (24)	Structure - (25)	99.47	3167.92	3167.78	0.1400	36.000	0.0130	24.00	25.03	4.03	2.36	Calculated
19	Pipe - (26)	Structure - (25)	Structure - (26)	22.81	3167.78	3167.75	0.1400	36.000	0.0130	24.00	25.03	4.03	2.36	Calculated
20	Pipe - (27)	Structure - (26)	Structure - (27)	54.45	3167.75	3167.68	0.1400	36.000	0.0130	24.00	25.01	4.03	2.36	Calculated
21	Pipe - (28)	Structure - (27)	Structure - (28)	61.44	3167.68	3167.59	0.1400	36.000	0.0130	24.00	25.02	4.03	2.36	Calculated
22	Pipe - (29)	Structure - (28)	Structure - (29)	39.65	3167.59	3167.53	0.1400	36.000	0.0130	24.00	25.01	4.03	2.36	Calculated
23	Pipe - (3)	Structure - (3)	Structure - (5)	81.90	3169.93	3169.81	0.1400	36.000	0.0130	24.00	25.47	4.10	2.32	Calculated
24	Pipe - (30)	Structure - (29)	Structure - (30)-AP	55.02	3167.53	3167.46	0.1400	36.000	0.0130	24.00	25.02	4.03	2.36	Calculated
25	Pipe - (31)	Structure - (30)-AP	Structure - (31)	108.89	3167.46	3167.30	0.1400	36.000	0.0130	24.00	24.99	4.02	2.36	Calculated
26	Pipe - (32)	Structure - (31)	Structure - (32)	59.74	3167.30	3167.22	0.1400	36.000	0.0130	24.00	25.04	4.03	2.36	Calculated
27	Pipe - (33)	Structure - (32)	Structure - (33)	70.38	3167.22	3167.12	0.1400	36.000	0.0130	24.00	25.02	4.03	2.36	Calculated
28	Pipe - (34)	Structure - (33)	Structure - (34)	41.95	3167.12	3167.06	0.1400	36.000	0.0130	24.00	25.00	4.03	2.36	Calculated
29	Pipe - (35)	Structure - (34)	Structure - (35)	78.99	3167.06	3166.95	0.1400	36.000	0.0130	24.00	25.00	4.03	2.36	Calculated
30	Pipe - (36)	Structure - (35)	Structure - (36)	58.21	3166.95	3166.87	0.1400	36.000	0.0130	24.00	25.03	4.03	2.36	Calculated
31	Pipe - (37)	Structure - (36)	Structure - (37)	25.67	3166.87	3166.83	0.1400	36.000	0.0130	24.00	24.87	4.01	2.37	Calculated
32	Pipe - (38)	Structure - (37)	Structure - (38)	27.29	3166.83	3166.79	0.1400	36.000	0.0130	24.00	25.23	4.06	2.34	Calculated
33	Pipe - (39)	Structure - (38)	Structure - (39)	28.04	3166.79	3166.75	0.1400	36.000	0.0130	24.00	25.02	4.03	2.36	Calculated
34	Pipe - (4)	Structure - (5)	Structure - (6)	63.23	3169.81	3169.72	0.1400	36.000	0.0130	24.00	25.02	4.03	2.36	Calculated
35	Pipe - (40)	Structure - (39)	Structure - (40)	31.43	3166.75	3166.71	0.1400	36.000	0.0130	24.00	24.96	4.02	2.36	Calculated
36	Pipe - (41)	Structure - (40)	Structure - (41)	66.52	3166.71	3166.62	0.1400	36.000	0.0130	24.00	25.04	4.03	2.36	Calculated
37	Pipe - (42)	Structure - (41)	Structure - (42)	39.15	3166.62	3166.56	0.1400	36.000	0.0130	24.00	24.94	4.02	2.36	Calculated
38	Pipe - (43)	Structure - (42)	Structure - (43)	15.90	3166.56	3166.54	0.1400	36.000	0.0130	24.00	25.11	4.04	2.35	Calculated
39	Pipe - (44)	Structure - (43)	Structure - (44)	46.77	3166.54	3166.47	0.1400	36.000	0.0130	24.00	25.00	4.02	2.36	Calculated
40	Pipe - (45)	Structure - (44)	Structure - (45)	188.63	3166.47	3166.21	0.1400	36.000	0.0130	24.00	25.02	4.03	2.36	Calculated
41	Pipe - (46)	Structure - (45)	Structure - (46)	76.81	3166.21	3166.10	0.1400	36.000	0.0130	24.00	25.04	4.03	2.36	Calculated
42	Pipe - (47)	Structure - (46)	Structure - (47)-AP	29.40	3166.10	3166.06	0.1400	36.000	0.0130	24.00	25.12	4.04	2.35	Calculated
43	Pipe - (48)	Structure - (47)-AP	Structure - (48)	183.69	3166.06	3165.80	0.1400	36.000	0.0130	24.00	24.99	4.02	2.36	Calculated
44	Pipe - (49)	Structure - (48)	Structure - (80)	20.09	3165.80	3165.77	0.1400	36.000	0.0130	24.00	25.09	4.04	2.35	Calculated
45	Pipe - (49) (1)	Structure - (80)	Structure - (49)	8.49	3165.77	3165.76	0.1400	36.000	0.0130	24.00	25.00	4.03	2.36	Calculated
46	Pipe - (5)	Structure - (6)	Structure - (7)	76.91	3169.72	3169.61	0.1400	36.000	0.0130	24.00	25.02	4.03	2.36	Calculated
47	Pipe - (50)	Structure - (49)	Structure - (50)	102.29	3165.76	3165.62	0.1400	36.000	0.0130	24.00	24.99	4.02	2.36	Calculated
48	Pipe - (51)	Structure - (50)	Structure - (51)	77.08	3165.62	3165.51	0.1400	36.000	0.0130	24.00	25.03	4.03	2.36	Calculated
49	Pipe - (52)	Structure - (51)	Structure - (582)	47.30	3165.51	3165.44	0.1400	36.000	0.0130	24.00	25.06	4.03	2.35	Calculated
50	Pipe - (521)-CMP	Structure - (582)	Structure - (583)	41.08	3165.44	3165.14	0.7400	60.000	0.0220	24.00	132.30	5.10	1.45	Calculated
51	Pipe - (522)-CMP	Structure - (583)	Structure - (584)	38.82	3165.14	3164.85	0.7400	60.000	0.0220	24.00	132.59	5.11	1.44	Calculated
52	Pipe - (523)-CMP	Structure - (584)	Structure - (585)	65.73	3164.85	3164.36	0.7400	60.000	0.0220	24.00	132.64	5.11	1.44	Calculated
53	Pipe - (53)	Structure - (585)	Structure - (54)	37.42	3164.36	3164.29	0.1800	36.000	0.0130	24.00	28.64	4.54	2.10	Calculated
54	Pipe - (54)	Structure - (54)	Structure - (55)	52.42	3164.29	3164.19	0.1800	36.000	0.0130	24.00	28.69	4.54	2.10	Calculated
55	Pipe - (55)	Structure - (55)	Structure - (56)	38.21	3164.19	3164.12	0.1800	36.000	0.0130	24.00	28.66	4.54	2.10	Calculated
56	Pipe - (56)	Structure - (56)	Structure - (57)	60.97	3164.12	3164.01	0.1800	36.000	0.0130	24.00	28.66	4.54	2.10	Calculated
57	Pipe - (57)	Structure - (57)	Structure - (58)	54.61	3164.01	3163.91	0.1800	36.000	0.0130	24.00	28.65	4.54	2.10	Calculated
58	Pipe - (58)	Structure - (58)	Structure - (59)	14.17	3163.91	3163.88	0.1900	36.000	0.0130	24.00	28.72	4.55	2.10	Calculated

## 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 (in)	Manning's Roughness	Peak Flow (cfs)	Design Flow Capacity (cfs)	Peak Flow Velocity (ft/sec)	Peak Flow Reported Depth (ft)	Condition
59	Pipe	Structure - (59)	Structure - (60)	13.79	3163.88	3163.86	0.1800	36.000	0.0130	24.00	28.60	4.53	2.10	Calculated
60	Pipe	Structure - (60)	Structure - (61)	22.05	3163.86	3163.82	0.1800	36.000	0.0130	24.00	28.67	4.54	2.10	Calculated
61	Pipe	Structure - (61)	Structure - (62)	113.44	3163.82	3163.61	0.1800	36.000	0.0130	24.00	28.68	4.54	2.10	Calculated
62	Pipe	Structure - (62)	Structure - (63)-AP	33.09	3163.61	3163.55	0.1800	36.000	0.0130	24.00	28.60	4.53	2.10	Calculated
63	Pipe	Structure - (63)-AP	Structure - (64)	43.79	3163.55	3163.47	0.1900	36.000	0.0130	24.00	28.71	4.55	2.10	Calculated
64	Pipe	Structure - (64)	Structure - (65)	51.34	3163.47	3163.37	0.1800	36.000	0.0130	24.00	28.66	4.54	2.10	Calculated
65	Pipe	Structure - (65)	Structure - (66)	107.81	3163.37	3163.17	0.1800	36.000	0.0130	24.00	28.67	4.54	2.10	Calculated
66	Pipe	Structure - (66)	Structure - (67)	43.97	3163.17	3163.09	0.1800	36.000	0.0130	24.00	28.67	4.54	2.10	Calculated
67	Pipe	Structure - (67)	Structure - (68)	205.18	3163.09	3162.71	0.1800	36.000	0.0130	24.00	28.67	4.54	2.10	Calculated
68	Pipe	Structure - (68)	Structure - (69)	160.33	3162.71	3162.42	0.1800	36.000	0.0130	24.00	28.67	4.54	2.10	Calculated
69	Pipe	Structure - (69)	Structure - (70)	95.26	3162.42	3162.24	0.1800	36.000	0.0130	24.00	28.67	4.54	2.10	Calculated
70	Pipe	Structure - (7)	Structure - (8)	87.53	3169.61	3169.49	0.1400	36.000	0.0130	24.00	25.01	4.03	2.36	Calculated
71	Pipe	Structure - (70)	Structure - (71)-AP	96.74	3162.24	3162.06	0.1800	36.000	0.0130	24.00	28.68	4.54	2.10	Calculated
72	Pipe	Structure - (71)-AP	Structure - (72)	41.62	3162.06	3161.98	0.1800	36.000	0.0130	24.00	28.64	4.54	2.10	Calculated
73	Pipe	Structure - (72)	Structure - (73)	132.08	3161.98	3161.71	0.2100	36.000	0.0130	24.00	30.29	4.75	2.02	Calculated
74	Pipe	Structure - (73)	Structure - (74)	29.50	3161.71	3161.66	0.1700	36.000	0.0130	24.00	27.70	4.41	2.16	Calculated
75	Pipe	Structure - (74)	Structure - (75)	62.02	3161.66	3161.55	0.1700	36.000	0.0130	24.00	27.70	4.41	2.16	Calculated
76	Pipe	Structure - (75)	Out-OroleveSiphon - (75)	141.24	3161.55	3161.31	0.1700	36.000	0.0130	24.00	27.70	4.41	2.16	Calculated
77	Pipe	Structure - (8)	Structure - (9)	101.82	3169.49	3169.35	0.1400	36.000	0.0130	24.00	24.76	3.99	2.38	Calculated

# Junction Input

SN	Element ID	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Initial Water Elevation (ft)	Initial Water Depth (ft)	Surcharge Elevation (ft)	Surcharge Depth (ft)	Ponded Area (ft²)	Minimum Pipe Cover (in)
1	SF14 - (1)	3170.00	3172.99	2.99	3169.99	-0.01	3173.25	0.26	0.00	0.00
2	Structure - (10)	3169.28	3172.28	3.00	3169.28	0.00	3172.53	0.25	0.00	0.00
3	Structure - (11)	3169.22	3172.22	3.00	3169.22	0.00	3172.45	0.23	0.00	0.00
4	Structure - (12)	3169.15	3172.15	3.00	3169.15	0.00	3172.42	0.27	0.00	0.00
5	Structure - (13)	3169.10	3172.10	3.00	3169.10	0.00	3172.36	0.26	0.00	0.00
6	Structure - (14)	3168.91	3171.91	3.00	3168.91	0.00	3172.17	0.26	0.00	0.00
7	Structure - (15)-AP	3168.80	3173.30	4.50	3168.80	0.00	3183.30	10.00	0.00	0.00
8	Structure - (16)	3168.70	3171.70	3.00	3168.70	0.00	3171.96	0.26	0.00	0.00
9	Structure - (17)	3168.64	3171.64	3.00	3168.64	0.00	3171.90	0.26	0.00	0.00
10	Structure - (18)	3168.60	3171.60	3.00	3168.60	0.00	3171.86	0.26	0.00	0.00
11	Structure - (19)	3168.56	3171.56	3.00	3168.56	0.00	3171.81	0.25	0.00	0.00
12	Structure - (2)	3169.98	3172.97	2.99	3169.97	-0.01	3173.23	0.26	0.00	0.00
13	Structure - (21)	3168.45	3171.45	3.00	3168.45	0.00	3171.71	0.26	0.00	0.00
14	Structure - (22)	3168.35	3171.35	3.00	3168.35	0.00	3171.61	0.26	0.00	0.00
15	Structure - (23)	3167.97	3170.97	3.00	3167.97	0.00	3171.22	0.25	0.00	0.00
16	Structure - (24)	3167.92	3170.92	3.00	3167.92	0.00	3171.18	0.26	0.00	0.00
17	Structure - (25)	3167.78	3170.78	3.00	3167.78	0.00	3171.04	0.26	0.00	0.00
18	Structure - (26)	3167.75	3170.75	3.00	3167.75	0.00	3171.01	0.26	0.00	0.00
19	Structure - (27)	3167.68	3170.68	3.00	3167.68	0.00	3170.93	0.25	0.00	0.00
20	Structure - (28)	3167.59	3170.59	3.00	3167.59	0.00	3170.84	0.25	0.00	0.00
21	Structure - (29)	3167.53	3170.53	3.00	3167.53	0.00	3170.79	0.26	0.00	0.00
22	Structure - (3)	3169.93	3172.93	3.00	3169.93	0.00	3173.18	0.25	0.00	0.00
23	Structure - (30)-AP	3167.46	3171.40	3.94	3167.46	0.00	3171.40	0.00	0.00	0.00
24	Structure - (31)	3167.30	3170.30	3.00	3167.30	0.00	3170.56	0.26	0.00	0.00
25	Structure - (32)	3167.22	3170.22	3.00	3167.22	0.00	3170.47	0.25	0.00	0.00
26	Structure - (33)	3167.12	3170.12	3.00	3167.12	0.00	3170.38	0.26	0.00	0.00
27	Structure - (34)	3167.06	3170.06	3.00	3167.06	0.00	3170.32	0.26	0.00	0.00
28	Structure - (35)	3166.95	3169.95	3.00	3166.95	0.00	3170.21	0.26	0.00	0.00
29	Structure - (36)	3166.87	3169.87	3.00	3166.87	0.00	3170.12	0.25	0.00	0.00
30	Structure - (37)	3166.83	3169.83	3.00	3166.83	0.00	3170.09	0.26	0.00	0.00
31	Structure - (38)	3166.79	3169.79	3.00	3166.79	0.00	3170.05	0.26	0.00	0.00
32	Structure - (39)	3166.75	3169.75	3.00	3166.75	0.00	3170.01	0.26	0.00	0.00
33	Structure - (40)	3166.71	3169.71	3.00	3166.71	0.00	3169.97	0.26	0.00	0.00
34	Structure - (41)	3166.62	3169.62	3.00	3166.62	0.00	3169.87	0.25	0.00	0.00
35	Structure - (42)	3166.56	3169.56	3.00	3166.56	0.00	3169.82	0.26	0.00	0.00
36	Structure - (43)	3166.54	3169.54	3.00	3166.54	0.00	3169.79	0.25	0.00	0.00
37	Structure - (44)	3166.47	3169.47	3.00	3166.47	0.00	3169.73	0.26	0.00	0.00
38	Structure - (45)	3166.21	3169.21	3.00	3166.21	0.00	3169.46	0.25	0.00	0.00
39	Structure - (46)	3166.10	3169.10	3.00	3166.10	0.00	3169.35	0.25	0.00	0.00
40	Structure - (460)	3168.50	3171.50	3.00	3168.50	0.00	3171.76	0.26	0.00	0.00
41	Structure - (47)-AP	3166.06	3169.99	3.93	3166.06	0.00	3169.99	0.00	0.00	0.00
42	Structure - (48)	3165.80	3168.80	3.00	3165.80	0.00	3169.06	0.26	0.00	0.00
43	Structure - (49)	3165.76	3168.76	3.00	3165.76	0.00	3169.01	0.25	0.00	0.00
44	Structure - (5)	3169.81	3172.81	3.00	3169.81	0.00	3173.07	0.26	0.00	0.00
45	Structure - (50)	3165.62	3168.62	3.00	3165.62	0.00	3168.87	0.25	0.00	0.00
46	Structure - (51)	3165.51	3168.51	3.00	3165.51	0.00	3168.76	0.25	0.00	0.00
47	Structure - (54)	3164.29	3167.29	3.00	3164.29	0.00	3167.55	0.26	0.00	0.00
48	Structure - (55)	3164.19	3167.19	3.00	3164.19	0.00	3167.45	0.26	0.00	0.00
49	Structure - (56)	3164.12	3167.12	3.00	3164.12	0.00	3167.38	0.26	0.00	0.00
50	Structure - (57)	3164.01	3167.01	3.00	3164.01	0.00	3167.27	0.26	0.00	0.00
51	Structure - (58)	3163.91	3166.91	3.00	3163.91	0.00	3167.17	0.26	0.00	0.00
52	Structure - (582)	3165.44	3170.44	5.00	3165.44	0.00	3170.77	0.33	0.00	0.00
53	Structure - (583)	3165.14	3170.14	5.00	3165.14	0.00	3170.46	0.32	0.00	0.00
54	Structure - (584)	3164.85	3169.85	5.00	3164.85	0.00	3170.17	0.32	0.00	0.00
55	Structure - (585)	3164.36	3169.36	5.00	3164.36	0.00	3169.69	0.33	0.00	0.00
56	Structure - (59)	3163.88	3166.88	3.00	3163.88	0.00	3167.14	0.26	0.00	0.00
57	Structure - (6)	3169.72	3172.72	3.00	3169.72	0.00	3172.98	0.26	0.00	0.00
58	Structure - (60)	3163.86	3166.86	3.00	3163.86	0.00	3167.11	0.25	0.00	0.00
59	Structure - (61)	3163.82	3166.82	3.00	3163.82	0.00	3167.07	0.25	0.00	0.00
60	Structure - (62)	3163.61	3166.61	3.00	3163.61	0.00	3166.86	0.25	0.00	0.00
61	Structure - (63)-AP	3163.55	3167.90	4.35	3163.55	0.00	3167.90	0.00	0.00	0.00
62	Structure - (64)	3163.47	3166.47	3.00	3163.47	0.00	3166.72	0.25	0.00	0.00
63	Structure - (65)	3163.37	3166.37	3.00	3163.37	0.00	3166.63	0.26	0.00	0.00
64	Structure - (66)	3163.17	3166.17	3.00	3163.17	0.00	3166.43	0.26	0.00	0.00
65	Structure - (67)	3163.09	3166.09	3.00	3163.09	0.00	3166.35	0.26	0.00	0.00
66	Structure - (68)	3162.71	3165.71	3.00	3162.71	0.00	3165.97	0.26	0.00	0.00
67	Structure - (69)	3162.42	3165.42	3.00	3162.42	0.00	3165.67	0.25	0.00	0.00
68	Structure - (7)	3169.61	3172.61	3.00	3169.61	0.00	3172.87	0.26	0.00	0.00
69	Structure - (70)	3162.24	3165.24	3.00	3162.24	0.00	3165.50	0.26	0.00	0.00
70	Structure - (71)-AP	3162.06	3166.50	4.44	3162.06	0.00	3166.50	0.00	0.00	0.00
71	Structure - (72)	3161.98	3164.98	3.00	3161.98	0.00	3165.24	0.26	0.00	0.00
72	Structure - (73)	3161.71	3164.71	3.00	3161.71	0.00	3164.97	0.26	0.00	0.00
73	Structure - (74)	3161.66	3164.66	3.00	3161.66	0.00	3164.92	0.26	0.00	0.00
74	Structure - (75)	3161.55	3164.55	3.00	3161.55	0.00	3164.81	0.26	0.00	0.00
75	Structure - (8)	3169.49	3172.49	3.00	3169.49	0.00	3172.75	0.26	0.00	0.00
76	Structure - (80)	3165.77	3168.77	3.00	3165.77	0.00	3169.03	0.26	0.00	0.00
77	Structure - (9)	3169.35	3172.35	3.00	3169.35	0.00	3172.60	0.25	0.00	0.00



# Junction Results

SN	Element ID	Peak Inflow	Max HGL Elevation	Max HGL Depth	Max Surcharge Depth	Min Freeboard Attained	Average HGL Elevation	Average HGL Depth	Total Flooded Volume
		(cfs)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ac-in)
1	SF14 - (1)	24.00	3172.36	2.36	0.00	0.64	3172.36	2.36	0.00
2	Structure - (10)	24.00	3171.67	2.39	0.00	0.61	3171.67	2.39	0.00
3	Structure - (11)	24.00	3171.56	2.34	0.00	0.66	3171.56	2.34	0.00
4	Structure - (12)	24.00	3171.52	2.37	0.00	0.64	3171.52	2.37	0.00
5	Structure - (13)	24.00	3171.46	2.36	0.00	0.64	3171.46	2.36	0.00
6	Structure - (14)	24.00	3171.27	2.36	0.00	0.64	3171.27	2.36	0.00
7	Structure - (15)-AP	24.00	3171.16	2.36	0.00	2.14	3171.16	2.36	0.00
8	Structure - (16)	24.00	3171.06	2.36	0.00	0.64	3171.06	2.36	0.00
9	Structure - (17)	24.00	3171.01	2.37	0.00	0.64	3171.01	2.37	0.00
10	Structure - (18)	24.00	3170.96	2.36	0.00	0.64	3170.96	2.36	0.00
11	Structure - (19)	24.00	3170.92	2.36	0.00	0.64	3170.92	2.36	0.00
12	Structure - (2)	24.00	3172.34	2.36	0.00	0.64	3172.34	2.36	0.00
13	Structure - (21)	24.00	3170.82	2.37	0.00	0.64	3170.82	2.37	0.00
14	Structure - (22)	24.00	3170.71	2.36	0.00	0.64	3170.71	2.36	0.00
15	Structure - (23)	24.00	3170.33	2.36	0.00	0.64	3170.33	2.36	0.00
16	Structure - (24)	24.00	3170.28	2.36	0.00	0.64	3170.28	2.36	0.00
17	Structure - (25)	24.00	3170.14	2.36	0.00	0.64	3170.14	2.36	0.00
18	Structure - (26)	24.00	3170.11	2.36	0.00	0.64	3170.11	2.36	0.00
19	Structure - (27)	24.00	3170.03	2.35	0.00	0.65	3170.03	2.35	0.00
20	Structure - (28)	24.00	3169.95	2.36	0.00	0.64	3169.95	2.36	0.00
21	Structure - (29)	24.00	3169.89	2.36	0.00	0.64	3169.89	2.36	0.00
22	Structure - (3)	24.00	3172.25	2.32	0.00	0.68	3172.25	2.32	0.00
23	Structure - (30)-AP	24.00	3169.82	2.36	0.00	1.58	3169.82	2.36	0.00
24	Structure - (31)	24.00	3169.66	2.36	0.00	0.64	3169.66	2.36	0.00
25	Structure - (32)	24.00	3169.58	2.36	0.00	0.64	3169.58	2.36	0.00
26	Structure - (33)	24.00	3169.48	2.36	0.00	0.64	3169.48	2.36	0.00
27	Structure - (34)	24.00	3169.42	2.36	0.00	0.64	3169.42	2.36	0.00
28	Structure - (35)	24.00	3169.31	2.36	0.00	0.64	3169.31	2.36	0.00
29	Structure - (36)	24.00	3169.24	2.37	0.00	0.63	3169.24	2.37	0.00
30	Structure - (37)	24.00	3169.20	2.37	0.00	0.63	3169.20	2.37	0.00
31	Structure - (38)	24.00	3169.15	2.36	0.00	0.64	3169.15	2.36	0.00
32	Structure - (39)	24.00	3169.12	2.37	0.00	0.64	3169.12	2.37	0.00
33	Structure - (40)	24.00	3169.07	2.36	0.00	0.64	3169.07	2.36	0.00
34	Structure - (41)	24.00	3168.98	2.36	0.00	0.64	3168.98	2.36	0.00
35	Structure - (42)	24.00	3168.93	2.37	0.00	0.64	3168.93	2.37	0.00
36	Structure - (43)	24.00	3168.90	2.36	0.00	0.64	3168.90	2.36	0.00
37	Structure - (44)	24.00	3168.83	2.36	0.00	0.64	3168.83	2.36	0.00
38	Structure - (45)	24.00	3168.56	2.35	0.00	0.65	3168.56	2.35	0.00
39	Structure - (46)	24.00	3168.45	2.35	0.00	0.65	3168.45	2.35	0.00
40	Structure - (460)	24.00	3170.87	2.37	0.00	0.64	3170.87	2.37	0.00
41	Structure - (47)-AP	24.00	3168.42	2.36	0.00	1.57	3168.42	2.36	0.00
42	Structure - (48)	24.00	3168.16	2.36	0.00	0.64	3168.16	2.36	0.00
43	Structure - (49)	24.00	3168.12	2.36	0.00	0.64	3168.12	2.36	0.00
44	Structure - (5)	24.00	3172.17	2.36	0.00	0.64	3172.17	2.36	0.00
45	Structure - (50)	24.00	3167.97	2.35	0.00	0.65	3167.97	2.35	0.00
46	Structure - (51)	24.00	3167.86	2.35	0.00	0.65	3167.86	2.35	0.00
47	Structure - (54)	24.00	3166.39	2.10	0.00	0.90	3166.39	2.10	0.00
48	Structure - (55)	24.00	3166.30	2.11	0.00	0.90	3166.30	2.11	0.00
49	Structure - (56)	24.00	3166.23	2.11	0.00	0.90	3166.23	2.11	0.00
50	Structure - (57)	24.00	3166.11	2.10	0.00	0.90	3166.11	2.10	0.00
51	Structure - (58)	24.00	3166.01	2.10	0.00	0.90	3166.01	2.10	0.00
52	Structure - (582)	24.00	3167.79	2.35	0.00	2.65	3167.79	2.35	0.00
53	Structure - (583)	24.00	3166.58	1.44	0.00	3.56	3166.58	1.44	0.00
54	Structure - (584)	24.00	3166.29	1.44	0.00	3.56	3166.29	1.44	0.00
55	Structure - (585)	24.00	3166.46	2.10	0.00	2.90	3166.46	2.10	0.00
56	Structure - (59)	24.00	3165.99	2.11	0.00	0.90	3165.99	2.11	0.00
57	Structure - (6)	24.00	3172.08	2.36	0.00	0.64	3172.08	2.36	0.00
58	Structure - (60)	24.00	3165.96	2.10	0.00	0.90	3165.96	2.10	0.00
59	Structure - (61)	24.00	3165.92	2.10	0.00	0.90	3165.92	2.10	0.00
60	Structure - (62)	24.00	3165.71	2.10	0.00	0.90	3165.71	2.10	0.00
61	Structure - (63)-AP	24.00	3165.65	2.10	0.00	2.25	3165.65	2.10	0.00
62	Structure - (64)	24.00	3165.57	2.10	0.00	0.90	3165.57	2.10	0.00
63	Structure - (65)	24.00	3165.47	2.10	0.00	0.90	3165.47	2.10	0.00
64	Structure - (66)	24.00	3165.27	2.10	0.00	0.90	3165.27	2.10	0.00
65	Structure - (67)	24.00	3165.19	2.10	0.00	0.90	3165.19	2.10	0.00
66	Structure - (68)	24.00	3164.81	2.10	0.00	0.90	3164.81	2.10	0.00
67	Structure - (69)	24.00	3164.52	2.10	0.00	0.90	3164.52	2.10	0.00
68	Structure - (7)	24.00	3171.97	2.36	0.00	0.64	3171.97	2.36	0.00
69	Structure - (70)	24.00	3164.34	2.10	0.00	0.90	3164.34	2.10	0.00
70	Structure - (71)-AP	24.00	3164.16	2.10	0.00	2.34	3164.16	2.10	0.00
71	Structure - (72)	24.00	3164.09	2.11	0.00	0.90	3164.09	2.11	0.00
72	Structure - (73)	24.00	3163.87	2.16	0.00	0.84	3163.87	2.16	0.00
73	Structure - (74)	24.00	3163.82	2.16	0.00	0.84	3163.82	2.16	0.00
74	Structure - (75)	24.00	3163.71	2.16	0.00	0.84	3163.71	2.16	0.00
75	Structure - (8)	24.00	3171.87	2.38	0.00	0.62	3171.87	2.38	0.00
76	Structure - (80)	24.00	3168.13	2.36	0.00	0.64	3168.13	2.36	0.00
77	Structure - (9)	24.00	3171.74	2.39	0.00	0.61	3171.74	2.39	0.00

# Pipe Input

SN	Element ID	Length (ft)	Inlet Invert Elevation (ft)	Outlet Invert Elevation (ft)	Average Slope (%)	Pipe Diameter or Height (in)	Manning's Roughness	Entrance Losses	Exit/Bend Losses	Initial Flow (cfs)
1	Pipe - (1)	14.31	3170.00	3169.98	0.1400	36.000	0.0130	0.6000	0.6000	0.00
2	Pipe - (10)	50.95	3169.35	3169.28	0.1400	36.000	0.0130	0.6000	0.6000	0.00
3	Pipe - (11)	41.86	3169.28	3169.22	0.1400	36.000	0.0130	0.6000	0.6000	0.00
4	Pipe - (12)	40.35	3169.22	3169.16	0.1400	36.000	0.0130	0.6000	0.6000	0.00
5	Pipe - (13)	37.63	3169.16	3169.11	0.1400	36.000	0.0130	0.6000	0.6000	0.00
6	Pipe - (14)	139.02	3169.11	3168.91	0.1400	36.000	0.0130	0.6000	0.6000	0.00
7	Pipe - (15)	82.15	3168.91	3168.80	0.1400	36.000	0.0130	0.6000	0.6000	0.00
8	Pipe - (16)	66.09	3168.80	3168.70	0.1400	36.000	0.0130	0.6000	0.6000	0.00
9	Pipe - (17)	42.16	3168.70	3168.64	0.1400	36.000	0.0130	0.6000	0.6000	0.00
10	Pipe - (18)	29.59	3168.64	3168.60	0.1400	36.000	0.0130	0.6000	0.6000	0.00
11	Pipe - (19)	30.53	3168.60	3168.56	0.1400	36.000	0.0130	0.6000	0.6000	0.00
12	Pipe - (2)	32.72	3169.98	3169.93	0.1700	36.000	0.0130	0.6000	0.6000	0.00
13	Pipe - (20)	39.31	3168.56	3168.50	0.1400	36.000	0.0130	0.6000	0.6000	0.00
14	Pipe - (20) (1)	35.92	3168.50	3168.45	0.1400	36.000	0.0130	0.6000	0.6000	0.00
15	Pipe - (22)	70.89	3168.45	3168.35	0.1400	36.000	0.0130	0.6000	0.6000	0.00
16	Pipe - (23)	275.47	3168.35	3167.97	0.1400	36.000	0.0130	0.6000	0.6000	0.00
17	Pipe - (24)	29.65	3167.97	3167.92	0.1400	36.000	0.0130	0.6000	0.6000	0.00
18	Pipe - (25)	99.47	3167.92	3167.78	0.1400	36.000	0.0130	0.6000	0.6000	0.00
19	Pipe - (26)	22.81	3167.78	3167.75	0.1400	36.000	0.0130	0.6000	0.6000	0.00
20	Pipe - (27)	54.45	3167.75	3167.68	0.1400	36.000	0.0130	0.6000	0.6000	0.00
21	Pipe - (28)	61.44	3167.68	3167.59	0.1400	36.000	0.0130	0.6000	0.6000	0.00
22	Pipe - (29)	39.65	3167.59	3167.53	0.1400	36.000	0.0130	0.6000	0.6000	0.00
23	Pipe - (3)	81.90	3169.93	3169.81	0.1400	36.000	0.0130	0.6000	0.6000	0.00
24	Pipe - (30)	55.02	3167.53	3167.46	0.1400	36.000	0.0130	0.6000	0.6000	0.00
25	Pipe - (31)	108.89	3167.46	3167.30	0.1400	36.000	0.0130	0.6000	0.6000	0.00
26	Pipe - (32)	59.74	3167.30	3167.22	0.1400	36.000	0.0130	0.6000	0.6000	0.00
27	Pipe - (33)	70.38	3167.22	3167.12	0.1400	36.000	0.0130	0.6000	0.6000	0.00
28	Pipe - (34)	41.95	3167.12	3167.06	0.1400	36.000	0.0130	0.6000	0.6000	0.00
29	Pipe - (35)	78.99	3167.06	3166.95	0.1400	36.000	0.0130	0.6000	0.6000	0.00
30	Pipe - (36)	58.21	3166.95	3166.87	0.1400	36.000	0.0130	0.6000	0.6000	0.00
31	Pipe - (37)	25.67	3166.87	3166.83	0.1400	36.000	0.0130	0.6000	0.6000	0.00
32	Pipe - (38)	27.29	3166.83	3166.79	0.1400	36.000	0.0130	0.6000	0.6000	0.00
33	Pipe - (39)	28.04	3166.79	3166.75	0.1400	36.000	0.0130	0.6000	0.6000	0.00
34	Pipe - (4)	63.23	3169.81	3169.72	0.1400	36.000	0.0130	0.6000	0.6000	0.00
35	Pipe - (40)	31.43	3166.75	3166.71	0.1400	36.000	0.0130	0.6000	0.6000	0.00
36	Pipe - (41)	66.52	3166.71	3166.62	0.1400	36.000	0.0130	0.6000	0.6000	0.00
37	Pipe - (42)	39.15	3166.62	3166.56	0.1400	36.000	0.0130	0.6000	0.6000	0.00
38	Pipe - (43)	15.90	3166.56	3166.54	0.1400	36.000	0.0130	0.6000	0.6000	0.00
39	Pipe - (44)	46.77	3166.54	3166.47	0.1400	36.000	0.0130	0.6000	0.6000	0.00
40	Pipe - (45)	188.63	3166.47	3166.21	0.1400	36.000	0.0130	0.6000	0.6000	0.00
41	Pipe - (46)	76.81	3166.21	3166.10	0.1400	36.000	0.0130	0.6000	0.6000	0.00
42	Pipe - (47)	29.40	3166.10	3166.06	0.1400	36.000	0.0130	0.6000	0.6000	0.00
43	Pipe - (48)	183.69	3166.06	3165.80	0.1400	36.000	0.0130	0.6000	0.6000	0.00
44	Pipe - (49)	20.09	3165.80	3165.77	0.1400	36.000	0.0130	0.6000	0.6000	0.00
45	Pipe - (49) (1)	8.49	3165.77	3165.76	0.1400	36.000	0.0130	0.6000	0.6000	0.00
46	Pipe - (5)	76.91	3169.72	3169.61	0.1400	36.000	0.0130	0.6000	0.6000	0.00
47	Pipe - (50)	102.29	3165.76	3165.62	0.1400	36.000	0.0130	0.6000	0.6000	0.00
48	Pipe - (51)	77.08	3165.62	3165.51	0.1400	36.000	0.0130	0.6000	0.6000	0.00
49	Pipe - (52)	47.30	3165.51	3165.44	0.1400	36.000	0.0130	0.6000	0.6000	0.00
50	Pipe - (521)-CMP	41.08	3165.44	3165.14	0.7400	60.000	0.0220	0.6000	0.6000	0.00
51	Pipe - (522)-CMP	38.82	3165.14	3164.85	0.7400	60.000	0.0220	0.6000	0.6000	0.00
52	Pipe - (523)-CMP	65.73	3164.85	3164.36	0.7400	60.000	0.0220	0.6000	0.6000	0.00
53	Pipe - (53)	37.42	3164.36	3164.29	0.1800	36.000	0.0130	0.6000	0.6000	0.00
54	Pipe - (54)	52.42	3164.29	3164.19	0.1800	36.000	0.0130	0.6000	0.6000	0.00
55	Pipe - (55)	38.21	3164.19	3164.12	0.1800	36.000	0.0130	0.6000	0.6000	0.00
56	Pipe - (56)	60.97	3164.12	3164.01	0.1800	36.000	0.0130	0.6000	0.6000	0.00
57	Pipe - (57)	54.61	3164.01	3163.91	0.1800	36.000	0.0130	0.6000	0.6000	0.00
58	Pipe - (58)	14.17	3163.91	3163.88	0.1900	36.000	0.0130	0.6000	0.6000	0.00
59	Pipe - (59)	13.79	3163.88	3163.86	0.1800	36.000	0.0130	0.6000	0.6000	0.00
60	Pipe - (60)	22.05	3163.86	3163.82	0.1800	36.000	0.0130	0.6000	0.6000	0.00
61	Pipe - (61)	113.44	3163.82	3163.61	0.1800	36.000	0.0130	0.6000	0.6000	0.00
62	Pipe - (62)	33.09	3163.61	3163.55	0.1800	36.000	0.0130	0.6000	0.6000	0.00
63	Pipe - (63)	43.79	3163.55	3163.47	0.1900	36.000	0.0130	0.6000	0.6000	0.00
64	Pipe - (64)	51.34	3163.47	3163.37	0.1800	36.000	0.0130	0.6000	0.6000	0.00
65	Pipe - (65)	107.81	3163.37	3163.17	0.1800	36.000	0.0130	0.6000	0.6000	0.00
66	Pipe - (66)	43.97	3163.17	3163.09	0.1800	36.000	0.0130	0.6000	0.6000	0.00
67	Pipe - (67)	205.18	3163.09	3162.71	0.1800	36.000	0.0130	0.6000	0.6000	0.00
68	Pipe - (68)	160.33	3162.71	3162.42	0.1800	36.000	0.0130	0.6000	0.6000	0.00
69	Pipe - (69)	95.26	3162.42	3162.24	0.1800	36.000	0.0130	0.6000	0.6000	0.00
70	Pipe - (7)	87.53	3169.61	3169.49	0.1400	36.000	0.0130	0.6000	0.6000	0.00
71	Pipe - (70)	96.74	3162.24	3162.06	0.1800	36.000	0.0130	0.6000	0.6000	0.00
72	Pipe - (71)	41.62	3162.06	3161.98	0.1800	36.000	0.0130	0.6000	0.6000	0.00
73	Pipe - (72)	132.08	3161.98	3161.71	0.2100	36.000	0.0130	0.6000	0.6000	0.00
74	Pipe - (73)	29.50	3161.71	3161.66	0.1700	36.000	0.0130	0.6000	0.6000	0.00
75	Pipe - (74)	62.02	3161.66	3161.55	0.1700	36.000	0.0130	0.6000	0.6000	0.00
76	Pipe - (75)	141.24	3161.55	3161.31	0.1700	36.000	0.0130	0.6000	0.6000	0.00
77	Pipe - (8)	101.82	3169.49	3169.35	0.1400	36.000	0.0130	0.6000	0.6000	0.00

# Pipe Results

SN	Element ID	Peak Flow	Design Flow Capacity	Peak Flow/Design Flow Ratio	Peak Flow Velocity	Travel Time	Peak Flow Depth	Peak Flow Depth/Total Depth Ratio	Froude Number	Reported Condition
		(cfs)	(cfs)		(ft/sec)	(min)	(ft)			
1	Pipe - (1)	24.00	24.94	0.96	4.02	0.06	2.36	0.79		Calculated
2	Pipe - (10)	24.00	24.72	0.97	3.98	0.21	2.39	0.80		Calculated
3	Pipe - (11)	24.00	25.25	0.95	4.06	0.17	2.34	0.78		Calculated
4	Pipe - (12)	24.00	25.75	0.93	4.14	0.16	2.30	0.77		Calculated
5	Pipe - (13)	24.00	25.02	0.96	4.03	0.16	2.36	0.79		Calculated
6	Pipe - (14)	24.00	25.02	0.96	4.03	0.57	2.36	0.79		Calculated
7	Pipe - (15)	24.00	25.02	0.96	4.03	0.34	2.36	0.79		Calculated
8	Pipe - (16)	24.00	24.99	0.96	4.02	0.27	2.36	0.79		Calculated
9	Pipe - (17)	24.00	25.06	0.96	4.03	0.17	2.35	0.78		Calculated
10	Pipe - (18)	24.00	24.97	0.96	4.02	0.12	2.36	0.79		Calculated
11	Pipe - (19)	24.00	25.01	0.96	4.03	0.13	2.36	0.79		Calculated
12	Pipe - (2)	24.00	26.07	0.92	4.18	0.13	2.27	0.76		Calculated
13	Pipe - (20)	24.00	25.06	0.96	4.03	0.16	2.35	0.78		Calculated
14	Pipe - (20) (1)	24.00	24.96	0.96	4.02	0.15	2.36	0.79		Calculated
15	Pipe - (22)	24.00	25.06	0.96	4.03	0.29	2.35	0.78		Calculated
16	Pipe - (23)	24.00	25.02	0.96	4.03	1.14	2.36	0.79		Calculated
17	Pipe - (24)	24.00	24.99	0.96	4.02	0.12	2.36	0.79		Calculated
18	Pipe - (25)	24.00	25.03	0.96	4.03	0.41	2.36	0.79		Calculated
19	Pipe - (26)	24.00	25.03	0.96	4.03	0.09	2.36	0.79		Calculated
20	Pipe - (27)	24.00	25.01	0.96	4.03	0.23	2.36	0.79		Calculated
21	Pipe - (28)	24.00	25.02	0.96	4.03	0.25	2.36	0.79		Calculated
22	Pipe - (29)	24.00	25.01	0.96	4.03	0.16	2.36	0.79		Calculated
23	Pipe - (3)	24.00	25.47	0.94	4.10	0.33	2.32	0.77		Calculated
24	Pipe - (30)	24.00	25.02	0.96	4.03	0.23	2.36	0.79		Calculated
25	Pipe - (31)	24.00	24.99	0.96	4.02	0.45	2.36	0.79		Calculated
26	Pipe - (32)	24.00	25.04	0.96	4.03	0.25	2.36	0.79		Calculated
27	Pipe - (33)	24.00	25.02	0.96	4.03	0.29	2.36	0.79		Calculated
28	Pipe - (34)	24.00	25.00	0.96	4.03	0.17	2.36	0.79		Calculated
29	Pipe - (35)	24.00	25.00	0.96	4.03	0.33	2.36	0.79		Calculated
30	Pipe - (36)	24.00	25.03	0.96	4.03	0.24	2.36	0.79		Calculated
31	Pipe - (37)	24.00	24.87	0.96	4.01	0.11	2.37	0.79		Calculated
32	Pipe - (38)	24.00	25.23	0.95	4.06	0.11	2.34	0.78		Calculated
33	Pipe - (39)	24.00	25.02	0.96	4.03	0.12	2.36	0.79		Calculated
34	Pipe - (4)	24.00	25.02	0.96	4.03	0.26	2.36	0.79		Calculated
35	Pipe - (40)	24.00	24.96	0.96	4.02	0.13	2.36	0.79		Calculated
36	Pipe - (41)	24.00	25.04	0.96	4.03	0.28	2.36	0.79		Calculated
37	Pipe - (42)	24.00	24.94	0.96	4.02	0.16	2.36	0.79		Calculated
38	Pipe - (43)	24.00	25.11	0.96	4.04	0.07	2.35	0.78		Calculated
39	Pipe - (44)	24.00	25.00	0.96	4.02	0.19	2.36	0.79		Calculated
40	Pipe - (45)	24.00	25.02	0.96	4.03	0.78	2.36	0.79		Calculated
41	Pipe - (46)	24.00	25.04	0.96	4.03	0.32	2.36	0.79		Calculated
42	Pipe - (47)	24.00	25.12	0.96	4.04	0.12	2.35	0.78		Calculated
43	Pipe - (48)	24.00	24.99	0.96	4.02	0.76	2.36	0.79		Calculated
44	Pipe - (49)	24.00	25.09	0.96	4.04	0.08	2.35	0.78		Calculated
45	Pipe - (49) (1)	24.00	25.00	0.96	4.03	0.04	2.36	0.79		Calculated
46	Pipe - (5)	24.00	25.02	0.96	4.03	0.32	2.36	0.79		Calculated
47	Pipe - (50)	24.00	24.99	0.96	4.02	0.42	2.36	0.79		Calculated
48	Pipe - (51)	24.00	25.03	0.96	4.03	0.32	2.36	0.79		Calculated
49	Pipe - (52)	24.00	25.06	0.96	4.03	0.20	2.35	0.78		Calculated
50	Pipe - (521)-CMP	24.00	132.30	0.18	5.10	0.13	1.45	0.29		Calculated
51	Pipe - (522)-CMP	24.00	132.59	0.18	5.11	0.13	1.44	0.29		Calculated
52	Pipe - (523)-CMP	24.00	132.64	0.18	5.11	0.21	1.44	0.29		Calculated
53	Pipe - (53)	24.00	28.64	0.84	4.54	0.14	2.10	0.70		Calculated
54	Pipe - (54)	24.00	28.69	0.84	4.54	0.19	2.10	0.70		Calculated
55	Pipe - (55)	24.00	28.66	0.84	4.54	0.14	2.10	0.70		Calculated
56	Pipe - (56)	24.00	28.66	0.84	4.54	0.22	2.10	0.70		Calculated
57	Pipe - (57)	24.00	28.65	0.84	4.54	0.20	2.10	0.70		Calculated
58	Pipe - (58)	24.00	28.72	0.84	4.55	0.05	2.10	0.70		Calculated
59	Pipe - (59)	24.00	28.60	0.84	4.53	0.05	2.10	0.70		Calculated
60	Pipe - (60)	24.00	28.67	0.84	4.54	0.08	2.10	0.70		Calculated
61	Pipe - (61)	24.00	28.68	0.84	4.54	0.42	2.10	0.70		Calculated
62	Pipe - (62)	24.00	28.60	0.84	4.53	0.12	2.10	0.70		Calculated
63	Pipe - (63)	24.00	28.71	0.84	4.55	0.16	2.10	0.70		Calculated
64	Pipe - (64)	24.00	28.66	0.84	4.54	0.19	2.10	0.70		Calculated
65	Pipe - (65)	24.00	28.67	0.84	4.54	0.40	2.10	0.70		Calculated
66	Pipe - (66)	24.00	28.67	0.84	4.54	0.16	2.10	0.70		Calculated
67	Pipe - (67)	24.00	28.67	0.84	4.54	0.75	2.10	0.70		Calculated
68	Pipe - (68)	24.00	28.67	0.84	4.54	0.59	2.10	0.70		Calculated
69	Pipe - (69)	24.00	28.67	0.84	4.54	0.35	2.10	0.70		Calculated
70	Pipe - (7)	24.00	25.01	0.96	4.03	0.36	2.36	0.79		Calculated
71	Pipe - (70)	24.00	28.68	0.84	4.54	0.36	2.10	0.70		Calculated
72	Pipe - (71)	24.00	28.64	0.84	4.54	0.15	2.10	0.70		Calculated
73	Pipe - (72)	24.00	30.29	0.79	4.75	0.46	2.02	0.67		Calculated
74	Pipe - (73)	24.00	27.70	0.87	4.41	0.11	2.16	0.72		Calculated
75	Pipe - (74)	24.00	27.70	0.87	4.41	0.23	2.16	0.72		Calculated
76	Pipe - (75)	24.00	27.70	0.87	4.41	0.53	2.16	0.72		Calculated
77	Pipe - (8)	24.00	24.76	0.97	3.99	0.43	2.38	0.79		Calculated

## Project Description

File Name ..... Section2-0.013 (42inchSegment).SPF

## Number of Elements

	Qty
Rain Gages .....	0
Subbasins.....	0
Nodes.....	213
<i>Junctions</i> .....	212
<i>Outfalls</i> .....	1
<i>Flow Diversions</i> .....	0
<i>Inlets</i> .....	0
<i>Storage Nodes</i> .....	0
Links.....	212
<i>Channels</i> .....	0
<i>Pipes</i> .....	212
<i>Pumps</i> .....	0
<i>Orifices</i> .....	0
<i>Weirs</i> .....	0
<i>Outlets</i> .....	0
Pollutants .....	0
Land Uses .....	0

## Node Summary

SN	Element ID	Element Type	Invert Elevation	Ground/Rim (Max) Elevation	Initial Water Elevation	Surcharge Elevation	Peak Inflow	Max HGL Elevation Attained
			(ft)	(ft)	(ft)	(ft)	(cfs)	(ft)
1	OroleveSiphonOutlet	Junction	3160.08	3163.08	3159.99	3163.25	24.00	3162.40
2	Structure - (100)	Junction	3158.77	3161.77	3158.75	3162.00	24.00	3160.90
3	Structure - (101)	Junction	3158.68	3161.68	3158.67	3161.92	24.00	3160.82
4	Structure - (102)	Junction	3158.45	3161.45	3158.45	3162.15	24.00	3160.61
5	Structure - (103)	Junction	3158.34	3161.34	3158.42	3162.31	24.00	3160.50
6	Structure - (104)	Junction	3158.22	3161.22	3158.32	3161.67	24.00	3160.58
7	Structure - (105)	Junction	3158.17	3161.17	3158.34	3161.60	24.00	3160.53
8	Structure - (106)	Junction	3158.14	3161.14	3158.31	3161.56	24.00	3160.33
9	Structure - (107)	Junction	3158.09	3161.09	3158.23	3161.49	24.00	3160.25
10	Structure - (108)	Junction	3158.05	3161.05	3158.16	3161.86	24.00	3160.21
11	Structure - (109)	Junction	3157.93	3160.93	3158.14	3161.90	24.00	3160.04
12	Structure - (110)	Junction	3157.87	3160.87	3158.13	3161.38	24.00	3159.97
13	Structure - (111)	Junction	3157.84	3160.84	3158.09	3161.35	24.00	3159.98
14	Structure - (112)	Junction	3157.79	3160.79	3158.03	3161.29	24.00	3159.93
15	Structure - (113)	Junction	3157.77	3160.77	3158.01	3161.26	24.00	3159.88
16	Structure - (114)	Junction	3157.73	3160.73	3157.96	3161.66	24.00	3159.85
17	Structure - (116)	Junction	3157.10	3160.10	3156.82	3162.60	24.00	3159.23
18	Structure - (117)	Junction	3157.05	3160.05	3156.81	3160.13	24.00	3159.18
19	Structure - (118)	Junction	3157.00	3160.00	3156.81	3160.18	24.00	3159.07
20	Structure - (119)	Junction	3156.95	3159.95	3156.81	3160.25	24.00	3159.10
21	Structure - (120)	Junction	3156.81	3159.81	3156.81	3160.93	24.00	3158.96
22	Structure - (121)	Junction	3156.56	3160.26	3156.56	3160.26	24.00	3158.43
23	Structure - (122)	Junction	3156.35	3159.60	3156.35	3159.60	24.00	3158.22
24	Structure - (123)	Junction	3156.26	3159.52	3156.26	3159.52	24.00	3158.13
25	Structure - (124)	Junction	3156.15	3159.40	3156.15	3159.40	24.00	3158.01
26	Structure - (125)	Junction	3155.93	3159.19	3155.93	3159.19	24.00	3157.80
27	Structure - (126)	Junction	3155.39	3158.65	3155.39	3158.65	24.00	3157.26
28	Structure - (127)	Junction	3154.74	3159.30	3154.74	3159.30	24.00	3156.61
29	Structure - (128)	Junction	3154.38	3157.64	3154.38	3157.64	24.00	3156.25
30	Structure - (129)	Junction	3154.24	3157.49	3154.24	3157.49	24.00	3156.10
31	Structure - (130)	Junction	3154.17	3157.43	3154.17	3157.43	24.00	3156.04
32	Structure - (131)	Junction	3154.10	3157.35	3154.10	3157.35	24.00	3155.97
33	Structure - (132)	Junction	3154.07	3157.32	3154.07	3157.32	24.00	3155.94
34	Structure - (133)	Junction	3153.87	3157.12	3153.87	3157.12	24.00	3155.73
35	Structure - (134)	Junction	3153.81	3157.06	3153.81	3157.06	24.00	3155.67
36	Structure - (135)	Junction	3153.54	3156.80	3153.54	3156.80	24.00	3155.41
37	Structure - (136)	Junction	3153.37	3157.70	3153.37	3157.70	24.00	3155.66
38	Structure - (137)	Junction	3153.34	3157.67	3153.34	3157.67	24.00	3155.63
39	Structure - (138)	Junction	3153.14	3156.39	3153.14	3156.39	24.00	3155.42
40	Structure - (139)	Junction	3153.00	3156.26	3153.00	3156.26	24.00	3155.15
41	Structure - (140)	Junction	3152.92	3156.17	3152.92	3156.17	24.00	3155.20
42	Structure - (141)	Junction	3152.84	3156.09	3152.84	3156.09	24.00	3155.12
43	Structure - (142)	Junction	3152.60	3157.10	3152.60	3157.10	24.00	3154.89
44	Structure - (143)	Junction	3152.54	3155.79	3152.54	3155.79	24.00	3154.83
45	Structure - (144)	Junction	3152.44	3155.69	3152.44	3155.69	24.00	3154.73
46	Structure - (145)	Junction	3152.36	3155.62	3152.36	3155.62	24.00	3154.65
47	Structure - (146)	Junction	3152.22	3155.47	3152.22	3155.47	24.00	3154.51
48	Structure - (147)	Junction	3151.96	3155.21	3151.96	3155.21	24.00	3154.24
49	Structure - (148)	Junction	3151.86	3155.12	3151.86	3155.12	24.00	3154.15
50	Structure - (149)	Junction	3151.80	3155.06	3151.80	3155.06	24.00	3154.14
51	Structure - (150)	Junction	3151.76	3155.02	3151.76	3155.02	24.00	3154.10
52	Structure - (152)	Junction	3151.60	3154.86	3151.60	3154.86	24.00	3153.83
53	Structure - (153)	Junction	3151.26	3154.51	3151.26	3154.51	24.00	3153.47
54	Structure - (154)	Junction	3151.14	3154.40	3151.14	3154.40	24.00	3153.35
55	Structure - (155)	Junction	3150.98	3155.50	3150.98	3155.50	24.00	3153.19
56	Structure - (156)	Junction	3150.70	3153.96	3150.70	3153.96	24.00	3152.91
57	Structure - (157)	Junction	3150.63	3153.89	3150.63	3153.89	24.00	3152.84
58	Structure - (158)	Junction	3150.40	3153.65	3150.40	3153.65	24.00	3152.60
59	Structure - (159)	Junction	3150.26	3153.51	3150.26	3153.51	24.00	3152.46
60	Structure - (160)	Junction	3150.24	3153.49	3150.24	3153.49	24.00	3152.44
61	Structure - (161)	Junction	3150.18	3153.44	3150.18	3153.44	24.00	3152.38
62	Structure - (162)	Junction	3150.05	3153.31	3150.05	3153.31	24.00	3152.26
63	Structure - (163)	Junction	3150.04	3154.37	3150.04	3154.37	24.00	3152.25
64	Structure - (164)	Junction	3149.96	3154.29	3149.96	3154.29	24.00	3152.07
65	Structure - (166)	Junction	3149.81	3153.06	3149.81	3153.06	24.00	3151.92
66	Structure - (167)	Junction	3149.73	3152.99	3149.73	3152.99	24.00	3151.84
67	Structure - (168)	Junction	3149.65	3152.90	3149.65	3152.90	24.00	3151.76
68	Structure - (169)	Junction	3149.46	3154.00	3149.46	3154.00	24.00	3151.57
69	Structure - (170)	Junction	3149.14	3152.39	3149.14	3152.39	24.00	3151.25
70	Structure - (171)	Junction	3148.87	3152.12	3148.87	3152.12	24.00	3150.98
71	Structure - (172)	Junction	3148.69	3151.95	3148.69	3151.95	24.00	3150.80
72	Structure - (173)	Junction	3148.32	3151.58	3148.32	3151.58	24.00	3150.43
73	Structure - (174)	Junction	3148.19	3151.45	3148.19	3151.45	24.00	3150.30
74	Structure - (175)	Junction	3147.51	3152.00	3147.51	3152.00	24.00	3149.62
75	Structure - (176)	Junction	3147.44	3150.69	3147.44	3150.69	24.00	3149.55
76	Structure - (177)	Junction	3147.37	3150.63	3147.37	3150.63	24.00	3149.48
77	Structure - (178)	Junction	3147.27	3150.52	3147.27	3150.52	24.00	3149.38
78	Structure - (179)	Junction	3147.07	3150.32	3147.07	3150.32	24.00	3149.18
79	Structure - (180)	Junction	3146.87	3150.12	3146.87	3150.12	24.00	3148.98
80	Structure - (181)	Junction	3146.61	3149.87	3146.61	3149.87	24.00	3148.72
81	Structure - (182)	Junction	3146.37	3149.63	3146.37	3149.63	24.00	3148.49

## Node Summary

SN	Element ID	Element Type	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Initial Water Elevation (ft)	Surcharge Elevation (ft)	Peak Inflow (cfs)	Max HGL Elevation Attained (ft)
82	Structure - (183)	Junction	3146.35	3149.60	3146.35	3149.60	24.00	3148.46
83	Structure - (184)	Junction	3146.29	3149.55	3146.29	3149.55	24.00	3148.40
84	Structure - (185)	Junction	3146.17	3149.43	3146.17	3149.43	24.00	3148.28
85	Structure - (186)	Junction	3146.01	3149.26	3146.01	3149.26	24.00	3148.12
86	Structure - (187)	Junction	3145.83	3150.16	3145.83	3150.16	24.00	3147.94
87	Structure - (188)	Junction	3145.72	3150.20	3145.72	3150.20	24.00	3147.83
88	Structure - (189)	Junction	3145.71	3148.96	3145.71	3148.96	24.00	3147.82
89	Structure - (190)	Junction	3145.56	3148.81	3145.56	3148.81	24.00	3147.67
90	Structure - (191)	Junction	3145.49	3148.75	3145.49	3148.75	24.00	3147.60
91	Structure - (192)	Junction	3145.18	3148.43	3145.18	3148.43	24.00	3147.29
92	Structure - (193)	Junction	3145.08	3148.34	3145.08	3148.34	24.00	3147.20
93	Structure - (195)	Junction	3144.65	3147.90	3144.65	3147.90	24.00	3146.76
94	Structure - (196)	Junction	3144.58	3147.84	3144.58	3147.84	24.00	3146.69
95	Structure - (197)	Junction	3144.35	3147.61	3144.35	3147.61	24.00	3146.46
96	Structure - (198)	Junction	3144.31	3147.57	3144.31	3147.57	24.00	3146.42
97	Structure - (199)	Junction	3144.21	3147.46	3144.21	3147.46	24.00	3146.32
98	Structure - (200)	Junction	3144.11	3147.36	3144.11	3147.36	24.00	3146.22
99	Structure - (201)	Junction	3143.99	3148.50	3143.99	3148.50	24.00	3146.10
100	Structure - (202)	Junction	3143.85	3147.11	3143.85	3147.11	24.00	3145.96
101	Structure - (203)	Junction	3143.76	3147.02	3143.76	3147.02	24.00	3145.87
102	Structure - (204)	Junction	3143.66	3146.91	3143.66	3146.91	24.00	3145.77
103	Structure - (205)	Junction	3143.54	3146.80	3143.54	3146.80	24.00	3145.65
104	Structure - (206)	Junction	3143.20	3146.46	3143.20	3146.46	24.00	3145.31
105	Structure - (207)	Junction	3142.93	3146.19	3142.93	3146.19	24.00	3145.04
106	Structure - (208)	Junction	3142.41	3145.67	3142.41	3145.67	24.00	3144.52
107	Structure - (209)	Junction	3142.34	3146.04	3142.34	3146.04	24.00	3144.45
108	Structure - (210)	Junction	3142.24	3145.94	3142.24	3145.94	24.00	3144.24
109	Structure - (211)	Junction	3142.14	3145.39	3142.14	3145.39	24.00	3144.10
110	Structure - (212)	Junction	3141.78	3146.30	3141.78	3146.30	24.00	3143.74
111	Structure - (213)	Junction	3141.20	3144.45	3141.20	3144.45	24.00	3143.15
112	Structure - (214)	Junction	3140.81	3144.06	3140.81	3144.06	24.00	3142.77
113	Structure - (215)	Junction	3140.33	3143.59	3140.33	3143.59	24.00	3142.29
114	Structure - (216)	Junction	3140.12	3143.38	3140.12	3143.38	24.00	3142.08
115	Structure - (217)	Junction	3139.97	3143.23	3139.97	3143.23	24.00	3141.93
116	Structure - (218)	Junction	3139.85	3143.11	3139.85	3143.11	24.00	3141.81
117	Structure - (219)	Junction	3139.75	3143.01	3139.75	3143.01	24.00	3141.71
118	Structure - (220)	Junction	3139.55	3142.80	3139.55	3142.80	24.00	3141.51
119	Structure - (221)	Junction	3139.73	3144.20	3139.73	3144.20	24.00	3141.69
120	Structure - (222)	Junction	3139.60	3142.85	3139.60	3142.85	24.00	3141.56
121	Structure - (223)	Junction	3139.53	3142.78	3139.53	3142.78	24.00	3141.49
122	Structure - (224)	Junction	3139.44	3142.70	3139.44	3142.70	24.00	3141.40
123	Structure - (225)	Junction	3139.42	3142.68	3139.42	3142.68	24.00	3141.38
124	Structure - (226)	Junction	3139.40	3142.65	3139.40	3142.65	24.00	3141.35
125	Structure - (227)	Junction	3139.20	3142.45	3139.20	3142.45	24.00	3141.15
126	Structure - (228)	Junction	3138.90	3142.16	3138.90	3142.16	24.00	3140.86
127	Structure - (229)	Junction	3138.75	3142.01	3138.75	3142.01	24.00	3140.71
128	Structure - (230)	Junction	3138.67	3141.93	3138.67	3141.93	24.00	3140.63
129	Structure - (231)	Junction	3138.46	3141.71	3138.46	3141.71	24.00	3140.42
130	Structure - (232)	Junction	3138.31	3141.56	3138.31	3141.56	24.00	3140.27
131	Structure - (233)	Junction	3138.14	3141.40	3138.14	3141.40	24.00	3140.10
132	Structure - (234)	Junction	3138.10	3141.35	3138.10	3141.35	24.00	3140.05
133	Structure - (235)	Junction	3138.00	3142.33	3138.00	3142.33	24.00	3139.96
134	Structure - (236)	Junction	3137.78	3142.11	3137.78	3142.11	24.00	3140.01
135	Structure - (238)	Junction	3137.65	3140.90	3137.65	3140.90	24.00	3139.88
136	Structure - (239)	Junction	3137.50	3142.00	3137.50	3142.00	24.00	3139.71
137	Structure - (240)	Junction	3137.31	3140.56	3137.31	3140.56	24.00	3139.52
138	Structure - (241)	Junction	3137.27	3140.52	3137.27	3140.52	24.00	3139.49
139	Structure - (242)	Junction	3137.23	3140.48	3137.23	3140.48	24.00	3139.45
140	Structure - (243)	Junction	3137.19	3140.44	3137.19	3140.44	24.00	3139.40
141	Structure - (244)	Junction	3137.09	3140.35	3137.09	3140.35	24.00	3139.31
142	Structure - (245)	Junction	3137.04	3140.30	3137.04	3140.30	24.00	3139.26
143	Structure - (246)	Junction	3136.98	3140.23	3136.98	3140.23	24.00	3139.19
144	Structure - (247)	Junction	3136.89	3140.14	3136.89	3140.14	24.00	3139.10
145	Structure - (248)	Junction	3136.61	3139.87	3136.61	3139.87	24.00	3138.83
146	Structure - (249)	Junction	3136.43	3139.68	3136.43	3139.68	24.00	3138.64
147	Structure - (250)	Junction	3136.35	3139.60	3136.35	3139.60	24.00	3138.56
148	Structure - (251)	Junction	3136.30	3139.56	3136.30	3139.56	24.00	3138.52
149	Structure - (252)	Junction	3136.17	3139.43	3136.17	3139.43	24.00	3138.39
150	Structure - (253)	Junction	3136.02	3139.28	3136.02	3139.28	24.00	3138.24
151	Structure - (254)	Junction	3135.63	3138.89	3135.63	3138.89	24.00	3137.85
152	Structure - (255)	Junction	3135.24	3138.49	3135.24	3138.49	24.00	3137.45
153	Structure - (257)	Junction	3134.60	3137.86	3134.60	3137.86	24.00	3136.81
154	Structure - (258)	Junction	3134.47	3137.72	3134.47	3137.72	24.00	3136.68
155	Structure - (259)	Junction	3134.17	3138.70	3134.17	3138.70	24.00	3136.39
156	Structure - (260)	Junction	3134.15	3137.41	3134.15	3137.41	24.00	3136.36
157	Structure - (261)	Junction	3134.03	3137.29	3134.03	3137.29	24.00	3136.24
158	Structure - (262)	Junction	3133.85	3137.10	3133.85	3137.10	24.00	3136.06
159	Structure - (263)	Junction	3133.53	3136.78	3133.53	3136.78	24.00	3135.74
160	Structure - (264)	Junction	3133.40	3136.66	3133.40	3136.66	24.00	3135.61
161	Structure - (265)	Junction	3133.13	3136.39	3133.13	3136.39	24.00	3135.35
162	Structure - (266)	Junction	3132.95	3136.20	3132.95	3136.20	24.00	3135.16

## Node Summary

SN Element ID	Element Type	Invert Elevation	Ground/Rim (Max) Elevation	Initial Water Elevation	Surcharge Elevation	Peak Inflow	Max HGL Elevation Attained
		(ft)	(ft)	(ft)	(ft)	(cfs)	(ft)
163 Structure - (267)	Junction	3132.90	3136.15	3132.90	3136.15	24.00	3135.11
164 Structure - (268)	Junction	3132.79	3136.05	3132.79	3136.05	24.00	3135.02
165 Structure - (269)	Junction	3132.58	3137.10	3132.58	3137.10	24.00	3134.80
166 Structure - (270)	Junction	3132.32	3135.58	3132.32	3135.58	24.00	3134.45
167 Structure - (271)	Junction	3132.30	3135.55	3132.30	3135.55	24.00	3134.43
168 Structure - (273)	Junction	3131.95	3135.21	3131.95	3135.21	24.00	3134.08
169 Structure - (274)	Junction	3131.86	3135.11	3131.86	3135.11	24.00	3133.99
170 Structure - (275)	Junction	3131.77	3135.02	3131.77	3135.02	24.00	3133.90
171 Structure - (276)	Junction	3131.69	3134.94	3131.69	3134.94	24.00	3133.83
172 Structure - (277)	Junction	3131.67	3134.93	3131.67	3134.93	24.00	3133.82
173 Structure - (278)	Junction	3131.57	3134.83	3131.57	3134.83	24.00	3133.70
174 Structure - (279)	Junction	3131.31	3134.56	3131.31	3134.56	24.00	3133.44
175 Structure - (280)	Junction	3131.28	3134.53	3131.28	3134.53	24.00	3133.41
176 Structure - (281)	Junction	3131.15	3134.40	3131.15	3134.40	24.00	3133.28
177 Structure - (282)	Junction	3131.01	3134.26	3131.01	3134.26	24.00	3133.14
178 Structure - (283)	Junction	3130.62	3133.88	3130.62	3133.88	24.00	3132.75
179 Structure - (284)	Junction	3130.41	3133.67	3130.41	3133.67	24.00	3132.54
180 Structure - (285)	Junction	3130.16	3133.42	3130.16	3133.42	24.00	3132.30
181 Structure - (286)	Junction	3129.95	3133.20	3129.95	3133.20	24.00	3132.08
182 Structure - (287)	Junction	3129.65	3132.91	3129.65	3132.91	24.00	3131.78
183 Structure - (288)	Junction	3129.36	3132.62	3129.36	3132.62	24.00	3131.49
184 Structure - (289)	Junction	3129.24	3132.50	3129.24	3132.50	24.00	3131.37
185 Structure - (290)	Junction	3129.01	3133.50	3129.01	3133.50	24.00	3131.14
186 Structure - (291)	Junction	3128.73	3131.98	3128.73	3131.98	24.00	3130.86
187 Structure - (292)	Junction	3128.43	3131.69	3128.43	3131.69	24.00	3130.56
188 Structure - (571)	Junction	3135.85	3140.40	3135.85	3140.40	24.00	3138.06
189 Structure - (572)	Junction	3130.80	3135.30	3130.80	3135.30	24.00	3132.93
190 Structure - (592)	Junction	3151.75	3156.08	3151.75	3156.08	24.00	3154.04
191 Structure - (593)	Junction	3151.61	3155.94	3151.61	3155.94	24.00	3153.84
192 Structure - (594)	Junction	3157.95	3160.95	3158.14	3161.89	24.00	3160.06
193 Structure - (595)	Junction	3157.63	3160.63	3157.78	3161.49	24.00	3159.75
194 Structure - (596)	Junction	3157.30	3160.30	3156.95	3161.18	24.00	3159.29
195 Structure - (82)	Junction	3160.05	3163.31	3160.05	3163.31	24.00	3162.37
196 Structure - (83)	Junction	3159.91	3163.17	3159.91	3163.17	24.00	3162.01
197 Structure - (84)	Junction	3159.71	3162.71	3159.72	3162.98	24.00	3161.79
198 Structure - (85)	Junction	3159.60	3162.60	3159.61	3162.86	24.00	3161.69
199 Structure - (86)	Junction	3159.51	3162.51	3159.52	3162.78	24.00	3161.87
200 Structure - (87)	Junction	3159.48	3162.48	3159.50	3162.75	24.00	3161.88
201 Structure - (88)	Junction	3159.37	3162.37	3159.39	3162.64	24.00	3161.77
202 Structure - (89)	Junction	3159.34	3162.34	3159.36	3162.62	24.00	3161.62
203 Structure - (90)	Junction	3159.31	3162.31	3159.34	3162.59	24.00	3161.59
204 Structure - (91)	Junction	3159.26	3162.26	3159.29	3162.55	24.00	3161.39
205 Structure - (92)	Junction	3159.18	3162.18	3159.21	3162.47	24.00	3161.29
206 Structure - (93)	Junction	3159.13	3162.13	3159.17	3162.42	24.00	3161.23
207 Structure - (94)	Junction	3159.09	3162.09	3159.13	3162.39	24.00	3161.19
208 Structure - (95)	Junction	3159.05	3162.05	3159.09	3162.35	24.00	3161.34
209 Structure - (96)	Junction	3159.02	3162.02	3159.06	3162.33	24.00	3161.31
210 Structure - (97)	Junction	3158.92	3161.92	3158.88	3162.14	24.00	3161.07
211 Structure - (98)	Junction	3158.86	3161.86	3158.83	3163.30	24.00	3160.99
212 Structure - (99)	Junction	3158.81	3161.81	3158.79	3162.04	24.00	3160.93
213 Outlet-WoodleafSiphonInlet	Outfall	3128.31				24.00	3130.44

# 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)	Design Flow Capacity (cfs)	Peak Flow Velocity (ft/sec)	Peak Flow Reported Depth (ft)	Condition
1	Pipe	Structure - (103)	Structure - (104)	95.97	3158.34	3158.22	0.1300	42.000	0.0130	24.00	35.58	3.97	2.11	Calculated
2	Pipe	Structure - (102)	Structure - (103)	95.21	3158.45	3158.34	0.1200	42.000	0.0130	24.00	34.20	3.85	2.16	Calculated
3	Pipe	Structure - (104)	Structure - (105)	35.62	3158.22	3158.17	0.1400	36.000	0.0130	24.00	24.99	4.02	2.36	Calculated
4	Pipe	Structure - (105)	Structure - (106)	18.05	3158.17	3158.14	0.1700	36.000	0.0130	24.00	27.19	4.34	2.19	Calculated
5	Pipe	Structure - (106)	Structure - (107)	37.45	3158.14	3158.09	0.1300	42.000	0.0130	24.00	36.76	4.07	2.06	Calculated
6	Pipe	Structure - (107)	Structure - (108)	34.66	3158.09	3158.05	0.1200	42.000	0.0130	24.00	34.18	3.84	2.16	Calculated
7	Pipe	Structure - (108)	Structure - (594)	79.43	3158.05	3157.95	0.1300	42.000	0.0130	24.00	35.70	3.98	2.10	Calculated
8	Pipe	Structure - (109)	Structure - (110)	47.62	3157.93	3157.87	0.1300	42.000	0.0130	24.00	35.71	3.98	2.10	Calculated
9	Pipe	Structure - (594)	Structure - (109)	16.00	3157.95	3157.93	0.1200	42.000	0.0130	24.00	35.57	3.97	2.11	Calculated
10	Pipe	Structure - (110)	Structure - (111)	23.07	3157.87	3157.84	0.1300	42.000	0.0130	24.00	36.28	4.03	2.08	Calculated
11	Pipe	Structure - (111)	Structure - (112)	41.68	3157.84	3157.79	0.1200	42.000	0.0130	24.00	34.85	3.90	2.14	Calculated
12	Pipe	Structure - (112)	Structure - (113)	15.01	3157.79	3157.77	0.1300	42.000	0.0130	24.00	36.73	4.07	2.06	Calculated
13	Pipe	Structure - (113)	Structure - (114)	32.16	3157.77	3157.73	0.1200	42.000	0.0130	24.00	35.48	3.96	2.11	Calculated
14	Pipe	Structure - (114)	Structure - (595)	81.51	3157.73	3157.63	0.1200	42.000	0.0130	24.00	35.24	3.94	2.12	Calculated
15	Pipe	Structure - (596)	Structure - (116)	175.95	3157.30	3157.10	0.1100	48.000	0.0130	24.00	48.43	3.84	1.99	Calculated
16	Pipe	Structure - (595)	Structure - (596)	128.31	3157.63	3157.30	0.2600	36.000	0.0130	24.00	33.83	5.19	1.87	Calculated
17	Pipe	Structure - (116)	Structure - (117)	27.92	3157.10	3157.05	0.1800	36.000	0.0130	24.00	28.22	4.48	2.13	Calculated
18	Pipe	Structure - (117)	Structure - (118)	24.40	3157.05	3157.00	0.2000	36.000	0.0130	24.00	30.20	4.74	2.02	Calculated
19	Pipe	Structure - (118)	Structure - (119)	37.92	3157.00	3156.95	0.1300	42.000	0.0130	24.00	36.53	4.05	2.07	Calculated
20	Pipe	Structure - (119)	Structure - (120)	119.83	3156.95	3156.81	0.1200	42.000	0.0130	24.00	34.39	3.86	2.15	Calculated
21	Pipe	Structure - (120)	Structure - (121)	51.66	3156.81	3156.56	0.4800	36.000	0.0130	24.00	46.40	6.62	1.53	Calculated
22	Pipe	Structure - (121)	Structure - (122)	84.00	3156.56	3156.35	0.2500	36.000	0.0130	24.00	33.64	5.17	1.87	Calculated
23	Pipe	Structure - (122)	Structure - (123)	33.36	3156.35	3156.26	0.2600	36.000	0.0130	24.00	33.90	5.20	1.86	Calculated
24	Pipe	Structure - (123)	Structure - (124)	44.04	3156.26	3156.15	0.2600	36.000	0.0130	24.00	33.87	5.20	1.87	Calculated
25	Pipe	Structure - (124)	Structure - (125)	83.78	3156.15	3155.93	0.2600	36.000	0.0130	24.00	33.88	5.20	1.87	Calculated
26	Pipe	Structure - (125)	Structure - (126)	208.66	3155.93	3155.39	0.2600	36.000	0.0130	24.00	33.88	5.20	1.86	Calculated
27	Pipe	Structure - (126)	Structure - (127)	250.61	3155.39	3154.74	0.2600	36.000	0.0130	24.00	33.89	5.20	1.86	Calculated
28	Pipe	Structure - (127)	Structure - (128)	140.83	3154.74	3154.38	0.2600	36.000	0.0130	24.00	33.89	5.20	1.86	Calculated
29	Pipe	Structure - (128)	Structure - (129)	55.04	3154.38	3154.24	0.2600	36.000	0.0130	24.00	33.87	5.20	1.87	Calculated
30	Pipe	Structure - (129)	Structure - (130)	26.16	3154.24	3154.17	0.2600	36.000	0.0130	24.00	33.91	5.20	1.86	Calculated
31	Pipe	Structure - (130)	Structure - (131)	28.87	3154.17	3154.10	0.2600	36.000	0.0130	24.00	33.86	5.19	1.87	Calculated
32	Pipe	Structure - (131)	Structure - (132)	11.23	3154.10	3154.07	0.2600	36.000	0.0130	24.00	33.75	5.18	1.87	Calculated
33	Pipe	Structure - (132)	Structure - (133)	77.62	3154.07	3153.87	0.2600	36.000	0.0130	24.00	33.93	5.20	1.86	Calculated
34	Pipe	Structure - (133)	Structure - (134)	23.86	3153.87	3153.81	0.2600	36.000	0.0130	24.00	33.85	5.19	1.87	Calculated
35	Pipe	Structure - (134)	Structure - (135)	101.97	3153.81	3153.54	0.2600	36.000	0.0130	24.00	33.89	5.20	1.86	Calculated
36	Pipe	Structure - (135)	Structure - (136)	67.10	3153.54	3153.37	0.2600	36.000	0.0130	24.00	33.85	5.19	1.87	Calculated
37	Pipe	Structure - (136)	Structure - (137)	20.12	3153.37	3153.34	0.1500	36.000	0.0130	24.00	25.76	4.14	2.29	Calculated
38	Pipe	Structure - (137)	Structure - (138)	133.97	3153.34	3153.14	0.1500	36.000	0.0130	24.00	25.93	4.16	2.28	Calculated
39	Pipe	Structure - (138)	Structure - (139)	78.52	3153.14	3153.00	0.1800	36.000	0.0130	24.00	27.91	4.44	2.15	Calculated
40	Pipe	Structure - (139)	Structure - (140)	69.06	3153.00	3152.92	0.1200	42.000	0.0130	24.00	34.86	3.90	2.14	Calculated
41	Pipe	Structure - (140)	Structure - (141)	52.13	3152.92	3152.84	0.1500	36.000	0.0130	24.00	25.92	4.16	2.28	Calculated
42	Pipe	Structure - (141)	Structure - (142)	158.93	3152.84	3152.60	0.1500	36.000	0.0130	24.00	25.85	4.15	2.29	Calculated
43	Pipe	Structure - (142)	Structure - (143)	39.78	3152.60	3152.54	0.1500	36.000	0.0130	24.00	25.98	4.17	2.28	Calculated
44	Pipe	Structure - (143)	Structure - (144)	67.12	3152.54	3152.44	0.1500	36.000	0.0130	24.00	25.85	4.15	2.29	Calculated
45	Pipe	Structure - (144)	Structure - (145)	51.56	3152.44	3152.36	0.1500	36.000	0.0130	24.00	25.86	4.15	2.29	Calculated
46	Pipe	Structure - (145)	Structure - (146)	94.11	3152.36	3152.22	0.1500	36.000	0.0130	24.00	25.95	4.17	2.28	Calculated
47	Pipe	Structure - (146)	Structure - (147)	175.48	3152.22	3151.96	0.1500	36.000	0.0130	24.00	25.85	4.15	2.29	Calculated
48	Pipe	Structure - (147)	Structure - (148)	61.79	3151.96	3151.86	0.1500	36.000	0.0130	24.00	25.85	4.15	2.29	Calculated
49	Pipe	Structure - (148)	Structure - (149)	39.96	3151.86	3151.80	0.1600	36.000	0.0130	24.00	26.32	4.22	2.25	Calculated
50	Pipe	Structure - (149)	Structure - (150)	27.82	3151.80	3151.76	0.1400	36.000	0.0130	24.00	25.20	4.05	2.34	Calculated
51	Pipe	Structure - (592)	Structure - (593)	79.25	3151.75	3151.61	0.1800	36.000	0.0130	24.00	28.03	4.45	2.14	Calculated
52	Pipe	Structure - (150)	Structure - (592)	6.88	3151.76	3151.75	0.1500	36.000	0.0130	24.00	25.79	4.14	2.29	Calculated
53	Pipe	Structure - (593)	Structure - (152)	6.27	3151.61	3151.60	0.1600	36.000	0.0130	24.00	26.63	4.26	2.23	Calculated
54	Pipe	Structure - (152)	Structure - (153)	210.73	3151.60	3151.26	0.1600	36.000	0.0130	24.00	26.91	4.30	2.21	Calculated
55	Pipe	Structure - (153)	Structure - (154)	69.19	3151.26	3151.14	0.1600	36.000	0.0130	24.00	27.02	4.32	2.20	Calculated
56	Pipe	Structure - (154)	Structure - (155)	98.64	3151.14	3150.98	0.1600	36.000	0.0130	24.00	27.00	4.31	2.20	Calculated
57	Pipe	Structure - (156)	Structure - (157)	42.62	3150.70	3150.63	0.1600	36.000	0.0130	24.00	27.01	4.31	2.20	Calculated
58	Pipe	Structure - (155)	Structure - (156)	168.61	3150.98	3150.70	0.1600	36.000	0.0130	24.00	27.04	4.32	2.20	Calculated



# 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)	Design Flow Capacity (cfs)	Peak Flow Velocity (ft/sec)	Peak Flow Reported Depth (ft)	Condition
59	Pipe	Structure - (152)	Structure - (157)	144.64	3150.63	3150.40	0.1600	36.000	0.0130	24.00	27.04	4.32	2.20	Calculated
60	Pipe	Structure - (153)	Structure - (158)	83.89	3150.40	3150.26	0.1600	36.000	0.0130	24.00	27.02	4.32	2.20	Calculated
61	Pipe	Structure - (154)	Structure - (159)	14.09	3150.26	3150.24	0.1600	36.000	0.0130	24.00	27.00	4.31	2.20	Calculated
62	Pipe	Structure - (155)	Structure - (160)	34.05	3150.24	3150.18	0.1600	36.000	0.0130	24.00	27.04	4.32	2.20	Calculated
63	Pipe	Structure - (156)	Structure - (161)	79.15	3150.18	3150.05	0.1600	36.000	0.0130	24.00	27.02	4.32	2.20	Calculated
64	Pipe	Structure - (157)	Structure - (162)	6.48	3150.05	3150.04	0.1600	36.000	0.0130	24.00	26.94	4.30	2.21	Calculated
65	Pipe - (158)-ExCMPtoHDPE	Structure - (163)	Structure - (164)	42.50	3150.04	3149.96	0.1800	36.000	0.0130	24.00	28.51	4.52	2.11	Calculated
66	Pipe	Structure - (164)	Structure - (166)	84.29	3149.96	3149.81	0.1800	36.000	0.0130	24.00	28.50	4.52	2.11	Calculated
67	Pipe	Structure - (166)	Structure - (167)	42.07	3149.81	3149.73	0.1800	36.000	0.0130	24.00	28.51	4.52	2.11	Calculated
68	Pipe	Structure - (167)	Structure - (168)	45.11	3149.73	3149.65	0.1800	36.000	0.0130	24.00	28.50	4.52	2.11	Calculated
69	Pipe	Structure - (168)	Structure - (169)	101.12	3149.65	3149.46	0.1800	36.000	0.0130	24.00	28.50	4.52	2.11	Calculated
70	Pipe	Structure - (169)	Structure - (170)	178.38	3149.46	3149.14	0.1800	36.000	0.0130	24.00	28.50	4.52	2.11	Calculated
71	Pipe	Structure - (170)	Structure - (171)	149.74	3149.14	3148.87	0.1800	36.000	0.0130	24.00	28.50	4.52	2.11	Calculated
72	Pipe	Structure - (171)	Structure - (172)	94.63	3148.87	3148.69	0.1800	36.000	0.0130	24.00	28.51	4.52	2.11	Calculated
73	Pipe	Structure - (172)	Structure - (173)	202.14	3148.69	3148.32	0.1800	36.000	0.0130	24.00	28.50	4.52	2.11	Calculated
74	Pipe	Structure - (173)	Structure - (174)	71.05	3148.32	3148.19	0.1800	36.000	0.0130	24.00	28.50	4.52	2.11	Calculated
75	Pipe	Structure - (174)	Structure - (175)	376.77	3148.19	3147.51	0.1800	36.000	0.0130	24.00	28.50	4.52	2.11	Calculated
76	Pipe	Structure - (175)	Structure - (176)	38.21	3147.51	3147.44	0.1800	36.000	0.0130	24.00	28.45	4.51	2.11	Calculated
77	Pipe	Structure - (176)	Structure - (177)	33.64	3147.44	3147.37	0.1800	36.000	0.0130	24.00	28.55	4.52	2.11	Calculated
78	Pipe	Structure - (177)	Structure - (178)	58.55	3147.37	3147.27	0.1800	36.000	0.0130	24.00	28.51	4.52	2.11	Calculated
79	Pipe	Structure - (178)	Structure - (179)	109.91	3147.27	3147.07	0.1800	36.000	0.0130	24.00	28.49	4.52	2.11	Calculated
80	Pipe	Structure - (179)	Structure - (180)	108.38	3147.07	3146.87	0.1800	36.000	0.0130	24.00	28.50	4.52	2.11	Calculated
81	Pipe	Structure - (180)	Structure - (181)	140.28	3146.87	3146.61	0.1800	36.000	0.0130	24.00	28.52	4.52	2.11	Calculated
82	Pipe	Structure - (181)	Structure - (182)	130.61	3146.61	3146.37	0.1800	36.000	0.0130	24.00	28.50	4.52	2.11	Calculated
83	Pipe	Structure - (182)	Structure - (183)	15.81	3146.37	3146.35	0.1800	36.000	0.0130	24.00	28.48	4.51	2.11	Calculated
84	Pipe	Structure - (183)	Structure - (184)	29.50	3146.35	3146.29	0.1800	36.000	0.0130	24.00	28.53	4.52	2.11	Calculated
85	Pipe	Structure - (184)	Structure - (185)	66.39	3146.29	3146.17	0.1800	36.000	0.0130	24.00	28.50	4.52	2.11	Calculated
86	Pipe	Structure - (185)	Structure - (186)	89.00	3146.17	3146.01	0.1800	36.000	0.0130	24.00	28.51	4.52	2.11	Calculated
87	Pipe	Structure - (186)	Structure - (187)	97.78	3146.01	3145.83	0.1800	36.000	0.0130	24.00	28.50	4.52	2.11	Calculated
88	Pipe	Structure - (187)	Structure - (188)	59.83	3145.83	3145.72	0.1800	36.000	0.0130	24.00	28.47	4.51	2.11	Calculated
89	Pipe	Structure - (188)	Structure - (189)	6.65	3145.72	3145.71	0.1900	36.000	0.0130	24.00	28.84	4.56	2.09	Calculated
90	Pipe	Structure - (189)	Structure - (190)	81.87	3145.71	3145.56	0.1800	36.000	0.0130	24.00	28.50	4.52	2.11	Calculated
91	Pipe	Structure - (190)	Structure - (191)	37.14	3145.56	3145.49	0.1800	36.000	0.0130	24.00	28.50	4.52	2.11	Calculated
92	Pipe	Structure - (191)	Structure - (192)	171.25	3145.49	3145.18	0.1800	36.000	0.0130	24.00	28.51	4.52	2.11	Calculated
93	Pipe	Structure - (192)	Structure - (193)	50.77	3145.18	3145.08	0.1800	36.000	0.0130	24.00	28.49	4.52	2.11	Calculated
94	Pipe	Structure - (193)	Structure - (194)	36.53	3144.65	3144.58	0.1800	36.000	0.0130	24.00	28.52	4.52	2.11	Calculated
95	Pipe	Structure - (194)	Structure - (195)	126.36	3144.58	3144.35	0.1800	36.000	0.0130	24.00	28.50	4.52	2.11	Calculated
96	Pipe	Structure - (195)	Structure - (196)	19.86	3144.35	3144.31	0.1800	36.000	0.0130	24.00	28.54	4.52	2.11	Calculated
97	Pipe	Structure - (196)	Structure - (197)	59.18	3144.31	3144.21	0.1800	36.000	0.0130	24.00	28.50	4.52	2.11	Calculated
98	Pipe	Structure - (197)	Structure - (198)	53.03	3144.21	3144.11	0.1800	36.000	0.0130	24.00	28.51	4.52	2.11	Calculated
99	Pipe	Structure - (198)	Structure - (199)	67.10	3144.11	3143.99	0.1800	36.000	0.0130	24.00	28.50	4.52	2.11	Calculated
100	Pipe	Structure - (199)	Structure - (200)	74.90	3143.99	3143.85	0.1800	36.000	0.0130	24.00	28.50	4.52	2.11	Calculated
101	Pipe	Structure - (200)	Structure - (201)	48.61	3143.85	3143.76	0.1800	36.000	0.0130	24.00	28.50	4.52	2.11	Calculated
102	Pipe	Structure - (201)	Structure - (202)	58.06	3143.76	3143.66	0.1800	36.000	0.0130	24.00	28.51	4.52	2.11	Calculated
103	Pipe	Structure - (202)	Structure - (203)	62.71	3143.66	3143.54	0.1800	36.000	0.0130	24.00	28.50	4.52	2.11	Calculated
104	Pipe	Structure - (203)	Structure - (204)	184.46	3143.54	3143.20	0.1800	36.000	0.0130	24.00	28.50	4.52	2.11	Calculated
105	Pipe	Structure - (204)	Structure - (205)	147.79	3143.20	3142.93	0.1800	36.000	0.0130	24.00	28.50	4.52	2.11	Calculated
106	Pipe	Structure - (205)	Structure - (206)	286.90	3142.93	3142.41	0.1800	36.000	0.0130	24.00	28.50	4.52	2.11	Calculated
107	Pipe	Structure - (206)	Structure - (207)	38.21	3142.41	3142.34	0.1800	36.000	0.0130	24.00	28.50	4.52	2.11	Calculated
108	Pipe	Structure - (207)	Structure - (208)	47.51	3142.34	3142.24	0.2100	36.000	0.0130	24.00	30.60	4.79	2.00	Calculated
109	Pipe	Structure - (208)	Structure - (209)	45.26	3142.24	3142.14	0.2200	36.000	0.0130	24.00	31.54	4.91	1.96	Calculated
110	Pipe	Structure - (209)	Structure - (210)	160.26	3142.14	3141.78	0.2200	36.000	0.0130	24.00	31.54	4.91	1.96	Calculated
111	Pipe	Structure - (210)	Structure - (211)	261.48	3141.78	3141.20	0.2200	36.000	0.0130	24.00	31.55	4.91	1.96	Calculated
112	Pipe	Structure - (211)	Structure - (212)	173.08	3141.20	3140.81	0.2200	36.000	0.0130	24.00	31.54	4.91	1.96	Calculated
113	Pipe	Structure - (212)	Structure - (213)	213.13	3140.81	3140.33	0.2200	36.000	0.0130	24.00	31.54	4.91	1.96	Calculated
114	Pipe	Structure - (213)	Structure - (214)	94.77	3140.33	3140.12	0.2200	36.000	0.0130	24.00	31.53	4.91	1.96	Calculated
115	Pipe	Structure - (214)	Structure - (215)	66.56	3140.12	3139.97	0.2200	36.000	0.0130	24.00	31.55	4.91	1.96	Calculated
116	Pipe	Structure - (215)	Structure - (216)	52.21	3139.97	3139.85	0.2200	36.000	0.0130	24.00	31.53	4.91	1.96	Calculated

# 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 (in)	Manning's Roughness	Peak Flow (cfs)	Design Flow Capacity (cfs)	Peak Flow Velocity (ft/sec)	Peak Flow Reported Depth (ft)	Condition
117	Pipe	Structure - (218)	Structure - (219)	45.50	3139.85	3139.75	0.2200	36.000	0.0130	24.00	31.56	4.91	1.96	Calculated
118	Pipe	Structure - (219)	Structure - (221)	10.12	3139.75	3139.73	0.2200	36.000	0.0130	24.00	31.48	4.90	1.96	Calculated
119	Pipe	Structure - (221)	Structure - (222)	59.31	3139.73	3139.60	0.2200	36.000	0.0130	24.00	31.54	4.91	1.96	Calculated
120	Pipe	Structure - (222)	Structure - (220)	21.44	3139.60	3139.55	0.2200	36.000	0.0130	24.00	31.59	4.92	1.96	Calculated
121	Pipe	Structure - (220)	Structure - (223)	9.56	3139.55	3139.53	0.2200	36.000	0.0130	24.00	31.50	4.91	1.96	Calculated
122	Pipe	Structure - (223)	Structure - (224)	39.39	3139.53	3139.44	0.2200	36.000	0.0130	24.00	31.52	4.91	1.96	Calculated
123	Pipe	Structure - (224)	Structure - (225)	9.01	3139.44	3139.42	0.2200	36.000	0.0130	24.00	31.51	4.91	1.96	Calculated
124	Pipe	Structure - (225)	Structure - (226)	10.46	3139.42	3139.40	0.2200	36.000	0.0130	24.00	31.59	4.92	1.96	Calculated
125	Pipe	Structure - (226)	Structure - (227)	89.67	3139.40	3139.20	0.2200	36.000	0.0130	24.00	31.54	4.91	1.96	Calculated
126	Pipe	Structure - (227)	Structure - (228)	130.19	3139.20	3138.90	0.2200	36.000	0.0130	24.00	31.54	4.91	1.96	Calculated
127	Pipe	Structure - (228)	Structure - (229)	67.12	3138.90	3138.75	0.2200	36.000	0.0130	24.00	31.55	4.91	1.96	Calculated
128	Pipe	Structure - (229)	Structure - (230)	37.55	3138.75	3138.67	0.2200	36.000	0.0130	24.00	31.54	4.91	1.96	Calculated
129	Pipe	Structure - (230)	Structure - (231)	94.62	3138.67	3138.46	0.2200	36.000	0.0130	24.00	31.54	4.91	1.96	Calculated
130	Pipe	Structure - (231)	Structure - (232)	67.15	3138.46	3138.31	0.2200	36.000	0.0130	24.00	31.54	4.91	1.96	Calculated
131	Pipe	Structure - (232)	Structure - (233)	74.60	3138.31	3138.14	0.2200	36.000	0.0130	24.00	31.54	4.91	1.96	Calculated
132	Pipe	Structure - (233)	Structure - (234)	20.71	3138.14	3138.10	0.2200	36.000	0.0130	24.00	31.54	4.91	1.96	Calculated
133	Pipe	Structure - (234)	Structure - (235)	42.77	3138.10	3138.00	0.2200	36.000	0.0130	24.00	31.54	4.91	1.96	Calculated
134	Pipe	Structure - (235)	Structure - (236)	41.29	3138.00	3137.78	0.5300	36.000	0.0130	24.00	48.69	6.86	1.49	Calculated
135	Pipe	Structure - (193)	Structure - (195)	238.89	3145.08	3144.65	0.1800	36.000	0.0130	24.00	28.52	4.52	2.11	Calculated
136	Pipe	Structure - (236)	Structure - (238)	84.57	3137.78	3137.65	0.1600	36.000	0.0130	24.00	26.56	4.25	2.23	Calculated
137	Pipe	Structure - (238)	Structure - (239)	91.67	3137.65	3137.50	0.1600	36.000	0.0130	24.00	26.93	4.30	2.21	Calculated
138	Pipe	Structure - (239)	Structure - (240)	117.55	3137.50	3137.31	0.1600	36.000	0.0130	24.00	26.87	4.29	2.21	Calculated
139	Pipe	Structure - (240)	Structure - (241)	22.80	3137.31	3137.27	0.1600	36.000	0.0130	24.00	26.87	4.29	2.21	Calculated
140	Pipe	Structure - (241)	Structure - (242)	26.99	3137.27	3137.23	0.1600	36.000	0.0130	24.00	26.76	4.28	2.22	Calculated
141	Pipe	Structure - (242)	Structure - (243)	22.10	3137.23	3137.19	0.1600	36.000	0.0130	24.00	27.09	4.33	2.20	Calculated
142	Pipe	Structure - (243)	Structure - (244)	58.82	3137.19	3137.09	0.1600	36.000	0.0130	24.00	26.86	4.29	2.21	Calculated
143	Pipe	Structure - (244)	Structure - (245)	30.18	3137.09	3137.04	0.1600	36.000	0.0130	24.00	26.84	4.29	2.21	Calculated
144	Pipe	Structure - (245)	Structure - (246)	40.30	3137.04	3136.98	0.1600	36.000	0.0130	24.00	26.89	4.30	2.21	Calculated
145	Pipe	Structure - (246)	Structure - (247)	55.56	3136.98	3136.89	0.1600	36.000	0.0130	24.00	26.92	4.30	2.21	Calculated
146	Pipe	Structure - (247)	Structure - (248)	168.98	3136.89	3136.61	0.1600	36.000	0.0130	24.00	26.86	4.29	2.21	Calculated
147	Pipe	Structure - (248)	Structure - (249)	114.72	3136.61	3136.43	0.1600	36.000	0.0130	24.00	26.88	4.30	2.21	Calculated
148	Pipe	Structure - (249)	Structure - (250)	50.77	3136.43	3136.35	0.1600	36.000	0.0130	24.00	26.90	4.30	2.21	Calculated
149	Pipe	Structure - (250)	Structure - (251)	26.72	3136.35	3136.30	0.1600	36.000	0.0130	24.00	26.83	4.29	2.22	Calculated
150	Pipe	Structure - (251)	Structure - (252)	78.37	3136.30	3136.17	0.1600	36.000	0.0130	24.00	26.89	4.30	2.21	Calculated
151	Pipe	Structure - (252)	Structure - (253)	93.33	3136.17	3136.02	0.1600	36.000	0.0130	24.00	26.87	4.29	2.21	Calculated
152	Pipe	Structure - (254)	Structure - (255)	244.36	3135.63	3135.24	0.1600	36.000	0.0130	24.00	26.88	4.30	2.21	Calculated
153	Pipe	Structure - (257)	Structure - (258)	82.48	3134.60	3134.47	0.1600	36.000	0.0130	24.00	26.90	4.30	2.21	Calculated
154	Pipe	Structure - (255)	Structure - (257)	390.16	3135.24	3134.60	0.1600	36.000	0.0130	24.00	26.88	4.30	2.21	Calculated
155	Pipe	Structure - (258)	Structure - (259)	180.66	3134.47	3134.17	0.1600	36.000	0.0130	24.00	26.88	4.30	2.21	Calculated
156	Pipe	Structure - (259)	Structure - (260)	13.67	3134.17	3134.15	0.1600	36.000	0.0130	24.00	26.92	4.30	2.21	Calculated
157	Pipe	Structure - (260)	Structure - (261)	74.60	3134.15	3134.03	0.1600	36.000	0.0130	24.00	26.88	4.30	2.21	Calculated
158	Pipe	Structure - (261)	Structure - (262)	113.19	3134.03	3133.85	0.1600	36.000	0.0130	24.00	26.89	4.30	2.21	Calculated
159	Pipe	Structure - (262)	Structure - (263)	198.51	3133.85	3133.53	0.1600	36.000	0.0130	24.00	26.87	4.30	2.21	Calculated
160	Pipe	Structure - (263)	Structure - (264)	77.15	3133.53	3133.40	0.1600	36.000	0.0130	24.00	26.87	4.30	2.21	Calculated
161	Pipe	Structure - (264)	Structure - (265)	163.89	3133.40	3133.13	0.1600	36.000	0.0130	24.00	26.88	4.30	2.21	Calculated
162	Pipe	Structure - (265)	Structure - (266)	115.26	3133.13	3132.95	0.1600	36.000	0.0130	24.00	26.88	4.30	2.21	Calculated
163	Pipe	Structure - (266)	Structure - (267)	31.20	3132.95	3132.90	0.1600	36.000	0.0130	24.00	26.87	4.29	2.21	Calculated
164	Pipe	Structure - (267)	Structure - (268)	47.62	3132.90	3132.79	0.2200	36.000	0.0130	24.00	31.04	4.85	1.98	Calculated
165	Pipe	Structure - (268)	Structure - (269)	135.47	3132.79	3132.58	0.1600	36.000	0.0130	24.00	26.73	4.27	2.22	Calculated
166	Pipe	Structure - (269)	Structure - (270)	143.14	3132.58	3132.32	0.1800	36.000	0.0130	24.00	28.15	4.47	2.13	Calculated
167	Pipe	Structure - (270)	Structure - (271)	13.67	3132.32	3132.30	0.1800	36.000	0.0130	24.00	28.13	4.47	2.13	Calculated
168	Pipe	Structure - (271)	Structure - (273)	194.18	3132.30	3131.95	0.1800	36.000	0.0130	24.00	28.17	4.47	2.13	Calculated
169	Pipe	Structure - (273)	Structure - (274)	51.80	3131.95	3131.86	0.1800	36.000	0.0130	24.00	28.15	4.47	2.13	Calculated
170	Pipe	Structure - (274)	Structure - (275)	51.03	3131.86	3131.77	0.1800	36.000	0.0130	24.00	28.17	4.47	2.13	Calculated
171	Pipe	Structure - (275)	Structure - (276)	44.17	3131.77	3131.69	0.1800	36.000	0.0130	24.00	28.18	4.47	2.13	Calculated
172	Pipe	Structure - (276)	Structure - (277)	9.73	3131.69	3131.67	0.1800	36.000	0.0130	24.00	27.92	4.44	2.14	Calculated
173	Pipe	Structure - (277)	Structure - (278)	56.32	3131.67	3131.57	0.1800	36.000	0.0130	24.00	28.19	4.48	2.13	Calculated
174	Pipe	Structure - (278)	Structure - (279)	148.27	3131.57	3131.31	0.1800	36.000	0.0130	24.00	28.14	4.47	2.13	Calculated

# 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 (in)	Manning's Roughness	Peak Flow (cfs)	Design Flow Capacity (cfs)	Peak Flow Velocity (ft/sec)	Peak Flow Reported Depth (ft)	Condition
175 Pipe - (274)	Pipe	Structure - (279)	Structure - (280)	15.52	3131.31	3131.28	0.1800	36.000	0.0130	24.00	28.24	4.48	2.13	Calculated
176 Pipe - (275)	Pipe	Structure - (280)	Structure - (281)	72.68	3131.28	3131.15	0.1800	36.000	0.0130	24.00	28.15	4.47	2.13	Calculated
177 Pipe - (276)	Pipe	Structure - (281)	Structure - (282)	80.44	3131.15	3131.01	0.1800	36.000	0.0130	24.00	28.14	4.47	2.13	Calculated
178 Pipe - (277)	Pipe	Structure - (282)	Structure - (572)	116.90	3131.01	3130.80	0.1800	36.000	0.0130	24.00	28.16	4.47	2.13	Calculated
179 Pipe - (277) (1)	Pipe	Structure - (572)	Structure - (283)	99.10	3130.80	3130.62	0.1800	36.000	0.0130	24.00	28.16	4.47	2.13	Calculated
180 Pipe - (278)	Pipe	Structure - (283)	Structure - (284)	116.57	3130.62	3130.41	0.1800	36.000	0.0130	24.00	28.15	4.47	2.13	Calculated
181 Pipe - (279)	Pipe	Structure - (284)	Structure - (285)	139.23	3130.41	3130.16	0.1800	36.000	0.0130	24.00	28.16	4.47	2.13	Calculated
182 Pipe - (280)	Pipe	Structure - (285)	Structure - (286)	120.79	3130.16	3129.95	0.1800	36.000	0.0130	24.00	28.14	4.47	2.13	Calculated
183 Pipe - (281)	Pipe	Structure - (286)	Structure - (287)	167.51	3129.95	3129.65	0.1800	36.000	0.0130	24.00	28.17	4.47	2.13	Calculated
184 Pipe - (282)	Pipe	Structure - (287)	Structure - (288)	161.28	3129.65	3129.36	0.1800	36.000	0.0130	24.00	28.16	4.47	2.13	Calculated
185 Pipe - (283)	Pipe	Structure - (288)	Structure - (289)	69.39	3129.36	3129.24	0.1800	36.000	0.0130	24.00	28.13	4.47	2.13	Calculated
186 Pipe - (284)	Pipe	Structure - (289)	Structure - (290)	131.42	3129.24	3129.01	0.1800	36.000	0.0130	24.00	28.17	4.47	2.13	Calculated
187 Pipe - (285)	Pipe	Structure - (290)	Structure - (291)	156.43	3129.01	3128.73	0.1800	36.000	0.0130	24.00	28.15	4.47	2.13	Calculated
188 Pipe - (286)	Pipe	Structure - (291)	Structure - (292)	164.53	3128.73	3128.43	0.1800	36.000	0.0130	24.00	28.15	4.47	2.13	Calculated
189 Pipe - (287)	Pipe	Structure - (292)	Outlet-WoodleafSiphonInlet	71.45	3128.43	3128.31	0.1800	36.000	0.0130	24.00	28.17	4.47	2.13	Calculated
190 Pipe - (446)	Pipe	Structure - (253)	Structure - (571)	107.05	3136.02	3135.85	0.1600	36.000	0.0130	24.00	26.89	4.30	2.21	Calculated
191 Pipe - (446) (1)	Pipe	Structure - (571)	Structure - (254)	133.45	3135.85	3135.63	0.1600	36.000	0.0130	24.00	26.88	4.30	2.21	Calculated
192 Pipe - (79)	Pipe	OroleveSiphonOutlet	Structure - (82)	20.64	3160.08	3160.05	0.1500	36.000	0.0130	24.00	25.43	4.09	2.32	Calculated
193 Pipe - (80)	Pipe	Structure - (82)	Structure - (83)	110.08	3160.05	3159.91	0.1300	42.000	0.0130	24.00	35.88	3.99	2.10	Calculated
194 Pipe - (81)	Pipe	Structure - (83)	Structure - (84)	153.56	3159.91	3159.71	0.1300	42.000	0.0130	24.00	36.31	4.03	2.08	Calculated
195 Pipe - (82)	Pipe	Structure - (84)	Structure - (85)	82.77	3159.71	3159.60	0.1300	42.000	0.0130	24.00	36.68	4.06	2.07	Calculated
196 Pipe - (83)	Pipe	Structure - (85)	Structure - (86)	70.71	3159.60	3159.51	0.1300	42.000	0.0130	24.00	35.89	3.99	2.09	Calculated
197 Pipe - (84)	Pipe	Structure - (86)	Structure - (87)	21.39	3159.51	3159.48	0.1400	36.000	0.0130	24.00	24.98	4.02	2.36	Calculated
198 Pipe - (85)	Pipe	Structure - (87)	Structure - (88)	81.01	3159.48	3159.37	0.1400	36.000	0.0130	24.00	24.58	3.96	2.40	Calculated
199 Pipe - (86)	Pipe	Structure - (88)	Structure - (89)	22.84	3159.37	3159.34	0.1300	42.000	0.0130	24.00	36.46	4.04	2.07	Calculated
200 Pipe - (87)	Pipe	Structure - (89)	Structure - (90)	19.85	3159.34	3159.31	0.1500	36.000	0.0130	24.00	25.93	4.16	2.28	Calculated
201 Pipe - (88)	Pipe	Structure - (90)	Structure - (91)	41.17	3159.31	3159.26	0.1200	42.000	0.0130	24.00	35.06	3.92	2.13	Calculated
202 Pipe - (89)	Pipe	Structure - (91)	Structure - (92)	63.93	3159.26	3159.18	0.1300	42.000	0.0130	24.00	35.59	3.97	2.11	Calculated
203 Pipe - (90)	Pipe	Structure - (92)	Structure - (93)	39.13	3159.18	3159.13	0.1300	42.000	0.0130	24.00	35.96	4.00	2.09	Calculated
204 Pipe - (91)	Pipe	Structure - (93)	Structure - (94)	31.71	3159.13	3159.09	0.1300	42.000	0.0130	24.00	35.73	3.98	2.10	Calculated
205 Pipe - (92)	Pipe	Structure - (94)	Structure - (95)	29.66	3159.09	3159.05	0.1300	42.000	0.0130	24.00	36.95	4.08	2.06	Calculated
206 Pipe - (93)-ExCMPtoHDPE	Pipe	Structure - (95)	Structure - (96)	20.02	3159.05	3159.02	0.1500	36.000	0.0130	24.00	25.82	4.15	2.29	Calculated
207 Pipe - (94)	Pipe	Structure - (96)	Structure - (97)	85.59	3159.02	3158.92	0.1200	42.000	0.0130	24.00	34.39	3.86	2.15	Calculated
208 Pipe - (95)	Pipe	Structure - (97)	Structure - (98)	49.62	3158.92	3158.86	0.1200	42.000	0.0130	24.00	34.98	3.92	2.13	Calculated
209 Pipe - (96)	Pipe	Structure - (98)	Structure - (99)	41.00	3158.86	3158.81	0.1200	42.000	0.0130	24.00	35.14	3.93	2.12	Calculated
210 Pipe - (97)	Pipe	Structure - (99)	Structure - (100)	35.96	3158.81	3158.77	0.1300	42.000	0.0130	24.00	35.59	3.97	2.11	Calculated
211 Pipe - (98)	Pipe	Structure - (100)	Structure - (101)	70.99	3158.77	3158.68	0.1200	42.000	0.0130	24.00	34.81	3.90	2.14	Calculated
212 Pipe - (99)	Pipe	Structure - (101)	Structure - (102)	194.16	3158.68	3158.45	0.1200	42.000	0.0130	24.00	34.63	3.88	2.14	Calculated

## Junction Input

SN	Element ID	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Initial Water Elevation (ft)	Initial Water Depth (ft)	Surcharge Elevation (ft)	Surcharge Depth (ft)	Ponded Area (ft <sup>2</sup> )	Minimum Pipe Cover (in)
1	OroleveSiphonOutlet	3160.08	3163.08	3.00	3159.99	-0.09	3163.25	0.17	0.00	0.00
2	Structure - (100)	3158.77	3161.77	3.00	3158.75	-0.02	3162.00	0.24	0.00	0.00
3	Structure - (101)	3158.68	3161.68	3.00	3158.67	-0.01	3161.92	0.24	0.00	0.00
4	Structure - (102)	3158.45	3161.45	3.00	3158.45	0.00	3162.15	0.70	0.00	0.00
5	Structure - (103)	3158.34	3161.34	3.00	3158.42	0.08	3162.31	0.97	0.00	0.00
6	Structure - (104)	3158.22	3161.22	3.00	3158.32	0.10	3161.67	0.45	0.00	0.00
7	Structure - (105)	3158.17	3161.17	3.00	3158.34	0.17	3161.60	0.43	0.00	0.00
8	Structure - (106)	3158.14	3161.14	3.00	3158.31	0.17	3161.56	0.42	0.00	0.00
9	Structure - (107)	3158.09	3161.09	3.00	3158.23	0.14	3161.49	0.40	0.00	0.00
10	Structure - (108)	3158.05	3161.05	3.00	3158.16	0.11	3161.86	0.81	0.00	0.00
11	Structure - (109)	3157.93	3160.93	3.00	3158.14	0.21	3161.90	0.97	0.00	0.00
12	Structure - (110)	3157.87	3160.87	3.00	3158.13	0.26	3161.38	0.51	0.00	0.00
13	Structure - (111)	3157.84	3160.84	3.00	3158.09	0.25	3161.35	0.51	0.00	0.00
14	Structure - (112)	3157.79	3160.79	3.00	3158.03	0.24	3161.29	0.50	0.00	0.00
15	Structure - (113)	3157.77	3160.77	3.00	3158.01	0.24	3161.26	0.49	0.00	0.00
16	Structure - (114)	3157.73	3160.73	3.00	3157.96	0.23	3161.66	0.93	0.00	0.00
17	Structure - (116)	3157.10	3160.10	3.00	3156.82	-0.28	3162.60	2.50	0.00	0.00
18	Structure - (117)	3157.05	3160.05	3.00	3156.81	-0.24	3160.13	0.08	0.00	0.00
19	Structure - (118)	3157.00	3160.00	3.00	3156.81	-0.19	3160.18	0.18	0.00	0.00
20	Structure - (119)	3156.95	3159.95	3.00	3156.81	-0.14	3160.25	0.30	0.00	0.00
21	Structure - (120)	3156.81	3159.81	3.00	3156.81	0.00	3160.93	1.12	0.00	0.00
22	Structure - (121)	3156.56	3160.26	3.70	3156.56	0.00	3160.26	0.00	0.00	0.00
23	Structure - (122)	3156.35	3159.60	3.26	3156.35	0.00	3159.60	0.00	0.00	0.00
24	Structure - (123)	3156.26	3159.52	3.26	3156.26	0.00	3159.52	0.00	0.00	0.00
25	Structure - (124)	3156.15	3159.40	3.26	3156.15	0.00	3159.40	0.00	0.00	0.00
26	Structure - (125)	3155.93	3159.19	3.26	3155.93	0.00	3159.19	0.00	0.00	0.00
27	Structure - (126)	3155.39	3158.65	3.26	3155.39	0.00	3158.65	0.00	0.00	0.00
28	Structure - (127)	3154.74	3159.30	4.56	3154.74	0.00	3159.30	0.00	0.00	0.00
29	Structure - (128)	3154.38	3157.64	3.26	3154.38	0.00	3157.64	0.00	0.00	0.00
30	Structure - (129)	3154.24	3157.49	3.26	3154.24	0.00	3157.49	0.00	0.00	0.00
31	Structure - (130)	3154.17	3157.43	3.26	3154.17	0.00	3157.43	0.00	0.00	0.00
32	Structure - (131)	3154.10	3157.35	3.26	3154.10	0.00	3157.35	0.00	0.00	0.00
33	Structure - (132)	3154.07	3157.32	3.26	3154.07	0.00	3157.32	0.00	0.00	0.00
34	Structure - (133)	3153.87	3157.12	3.26	3153.87	0.00	3157.12	0.00	0.00	0.00
35	Structure - (134)	3153.81	3157.06	3.26	3153.81	0.00	3157.06	0.00	0.00	0.00
36	Structure - (135)	3153.54	3156.80	3.26	3153.54	0.00	3156.80	0.00	0.00	0.00
37	Structure - (136)	3153.37	3157.70	4.33	3153.37	0.00	3157.70	0.00	0.00	0.00
38	Structure - (137)	3153.34	3157.67	4.33	3153.34	0.00	3157.67	0.00	0.00	0.00
39	Structure - (138)	3153.14	3156.39	3.26	3153.14	0.00	3156.39	0.00	0.00	0.00
40	Structure - (139)	3153.00	3156.26	3.26	3153.00	0.00	3156.26	0.00	0.00	0.00
41	Structure - (140)	3152.92	3156.17	3.26	3152.92	0.00	3156.17	0.00	0.00	0.00
42	Structure - (141)	3152.84	3156.09	3.26	3152.84	0.00	3156.09	0.00	0.00	0.00
43	Structure - (142)	3152.60	3157.10	4.50	3152.60	0.00	3157.10	0.00	0.00	0.00
44	Structure - (143)	3152.54	3155.79	3.26	3152.54	0.00	3155.79	0.00	0.00	0.00
45	Structure - (144)	3152.44	3155.69	3.26	3152.44	0.00	3155.69	0.00	0.00	0.00
46	Structure - (145)	3152.36	3155.62	3.26	3152.36	0.00	3155.62	0.00	0.00	0.00
47	Structure - (146)	3152.22	3155.47	3.26	3152.22	0.00	3155.47	0.00	0.00	0.00
48	Structure - (147)	3151.96	3155.21	3.26	3151.96	0.00	3155.21	0.00	0.00	0.00
49	Structure - (148)	3151.86	3155.12	3.26	3151.86	0.00	3155.12	0.00	0.00	0.00
50	Structure - (149)	3151.80	3155.06	3.26	3151.80	0.00	3155.06	0.00	0.00	0.00
51	Structure - (150)	3151.76	3155.02	3.26	3151.76	0.00	3155.02	0.00	0.00	0.00
52	Structure - (152)	3151.60	3154.86	3.26	3151.60	0.00	3154.86	0.00	0.00	0.00
53	Structure - (153)	3151.26	3154.51	3.26	3151.26	0.00	3154.51	0.00	0.00	0.00
54	Structure - (154)	3151.14	3154.40	3.26	3151.14	0.00	3154.40	0.00	0.00	0.00
55	Structure - (155)	3150.98	3155.50	4.52	3150.98	0.00	3155.50	0.00	0.00	0.00
56	Structure - (156)	3150.70	3153.96	3.26	3150.70	0.00	3153.96	0.00	0.00	0.00
57	Structure - (157)	3150.63	3153.89	3.26	3150.63	0.00	3153.89	0.00	0.00	0.00
58	Structure - (158)	3150.40	3153.65	3.26	3150.40	0.00	3153.65	0.00	0.00	0.00
59	Structure - (159)	3150.26	3153.51	3.26	3150.26	0.00	3153.51	0.00	0.00	0.00
60	Structure - (160)	3150.24	3153.49	3.26	3150.24	0.00	3153.49	0.00	0.00	0.00
61	Structure - (161)	3150.18	3153.44	3.26	3150.18	0.00	3153.44	0.00	0.00	0.00
62	Structure - (162)	3150.05	3153.31	3.26	3150.05	0.00	3153.31	0.00	0.00	0.00
63	Structure - (163)	3150.04	3154.37	4.33	3150.04	0.00	3154.37	0.00	0.00	0.00
64	Structure - (164)	3149.96	3154.29	4.33	3149.96	0.00	3154.29	0.00	0.00	0.00
65	Structure - (166)	3149.81	3153.06	3.26	3149.81	0.00	3153.06	0.00	0.00	0.00
66	Structure - (167)	3149.73	3152.99	3.26	3149.73	0.00	3152.99	0.00	0.00	0.00
67	Structure - (168)	3149.65	3152.90	3.26	3149.65	0.00	3152.90	0.00	0.00	0.00
68	Structure - (169)	3149.46	3154.00	4.54	3149.46	0.00	3154.00	0.00	0.00	0.00
69	Structure - (170)	3149.14	3152.39	3.26	3149.14	0.00	3152.39	0.00	0.00	0.00
70	Structure - (171)	3148.87	3152.12	3.26	3148.87	0.00	3152.12	0.00	0.00	0.00
71	Structure - (172)	3148.69	3151.95	3.26	3148.69	0.00	3151.95	0.00	0.00	0.00
72	Structure - (173)	3148.32	3151.58	3.26	3148.32	0.00	3151.58	0.00	0.00	0.00
73	Structure - (174)	3148.19	3151.45	3.26	3148.19	0.00	3151.45	0.00	0.00	0.00
74	Structure - (175)	3147.51	3152.00	4.49	3147.51	0.00	3152.00	0.00	0.00	0.00
75	Structure - (176)	3147.44	3150.69	3.26	3147.44	0.00	3150.69	0.00	0.00	0.00
76	Structure - (177)	3147.37	3150.63	3.26	3147.37	0.00	3150.63	0.00	0.00	0.00
77	Structure - (178)	3147.27	3150.52	3.26	3147.27	0.00	3150.52	0.00	0.00	0.00
78	Structure - (179)	3147.07	3150.32	3.26	3147.07	0.00	3150.32	0.00	0.00	0.00
79	Structure - (180)	3146.87	3150.12	3.26	3146.87	0.00	3150.12	0.00	0.00	0.00
80	Structure - (181)	3146.61	3149.87	3.26	3146.61	0.00	3149.87	0.00	0.00	0.00
81	Structure - (182)	3146.37	3149.63	3.26	3146.37	0.00	3149.63	0.00	0.00	0.00
82	Structure - (183)	3146.35	3149.60	3.26	3146.35	0.00	3149.60	0.00	0.00	0.00

# Junction Input

SN Element ID	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Initial Water Elevation (ft)	Initial Water Depth (ft)	Surcharge Elevation (ft)	Surcharge Depth (ft)	Ponded Area (ft <sup>2</sup> )	Minimum Pipe Cover (in)
83 Structure - (184)	3146.29	3149.55	3.26	3146.29	0.00	3149.55	0.00	0.00	0.00
84 Structure - (185)	3146.17	3149.43	3.26	3146.17	0.00	3149.43	0.00	0.00	0.00
85 Structure - (186)	3146.01	3149.26	3.26	3146.01	0.00	3149.26	0.00	0.00	0.00
86 Structure - (187)	3145.83	3150.16	4.33	3145.83	0.00	3150.16	0.00	0.00	0.00
87 Structure - (188)	3145.72	3150.20	4.48	3145.72	0.00	3150.20	0.00	0.00	0.00
88 Structure - (189)	3145.71	3148.96	3.26	3145.71	0.00	3148.96	0.00	0.00	0.00
89 Structure - (190)	3145.56	3148.81	3.26	3145.56	0.00	3148.81	0.00	0.00	0.00
90 Structure - (191)	3145.49	3148.75	3.26	3145.49	0.00	3148.75	0.00	0.00	0.00
91 Structure - (192)	3145.18	3148.43	3.26	3145.18	0.00	3148.43	0.00	0.00	0.00
92 Structure - (193)	3145.08	3148.34	3.26	3145.08	0.00	3148.34	0.00	0.00	0.00
93 Structure - (195)	3144.65	3147.90	3.26	3144.65	0.00	3147.90	0.00	0.00	0.00
94 Structure - (196)	3144.58	3147.84	3.26	3144.58	0.00	3147.84	0.00	0.00	0.00
95 Structure - (197)	3144.35	3147.61	3.26	3144.35	0.00	3147.61	0.00	0.00	0.00
96 Structure - (198)	3144.31	3147.57	3.26	3144.31	0.00	3147.57	0.00	0.00	0.00
97 Structure - (199)	3144.21	3147.46	3.26	3144.21	0.00	3147.46	0.00	0.00	0.00
98 Structure - (200)	3144.11	3147.36	3.26	3144.11	0.00	3147.36	0.00	0.00	0.00
99 Structure - (201)	3143.99	3148.50	4.51	3143.99	0.00	3148.50	0.00	0.00	0.00
100 Structure - (202)	3143.85	3147.11	3.26	3143.85	0.00	3147.11	0.00	0.00	0.00
101 Structure - (203)	3143.76	3147.02	3.26	3143.76	0.00	3147.02	0.00	0.00	0.00
102 Structure - (204)	3143.66	3146.91	3.26	3143.66	0.00	3146.91	0.00	0.00	0.00
103 Structure - (205)	3143.54	3146.80	3.26	3143.54	0.00	3146.80	0.00	0.00	0.00
104 Structure - (206)	3143.20	3146.46	3.26	3143.20	0.00	3146.46	0.00	0.00	0.00
105 Structure - (207)	3142.93	3146.19	3.26	3142.93	0.00	3146.19	0.00	0.00	0.00
106 Structure - (208)	3142.41	3145.67	3.26	3142.41	0.00	3145.67	0.00	0.00	0.00
107 Structure - (209)	3142.34	3146.04	3.70	3142.34	0.00	3146.04	0.00	0.00	0.00
108 Structure - (210)	3142.24	3145.94	3.70	3142.24	0.00	3145.94	0.00	0.00	0.00
109 Structure - (211)	3142.14	3145.39	3.26	3142.14	0.00	3145.39	0.00	0.00	0.00
110 Structure - (212)	3141.78	3146.30	4.52	3141.78	0.00	3146.30	0.00	0.00	0.00
111 Structure - (213)	3141.20	3144.45	3.26	3141.20	0.00	3144.45	0.00	0.00	0.00
112 Structure - (214)	3140.81	3144.06	3.26	3140.81	0.00	3144.06	0.00	0.00	0.00
113 Structure - (215)	3140.33	3143.59	3.26	3140.33	0.00	3143.59	0.00	0.00	0.00
114 Structure - (216)	3140.12	3143.38	3.26	3140.12	0.00	3143.38	0.00	0.00	0.00
115 Structure - (217)	3139.97	3143.23	3.26	3139.97	0.00	3143.23	0.00	0.00	0.00
116 Structure - (218)	3139.85	3143.11	3.26	3139.85	0.00	3143.11	0.00	0.00	0.00
117 Structure - (219)	3139.75	3143.01	3.26	3139.75	0.00	3143.01	0.00	0.00	0.00
118 Structure - (220)	3139.55	3142.80	3.26	3139.55	0.00	3142.80	0.00	0.00	0.00
119 Structure - (221)	3139.73	3144.20	4.47	3139.73	0.00	3144.20	0.00	0.00	0.00
120 Structure - (222)	3139.60	3142.85	3.26	3139.60	0.00	3142.85	0.00	0.00	0.00
121 Structure - (223)	3139.53	3142.78	3.26	3139.53	0.00	3142.78	0.00	0.00	0.00
122 Structure - (224)	3139.44	3142.70	3.26	3139.44	0.00	3142.70	0.00	0.00	0.00
123 Structure - (225)	3139.42	3142.68	3.26	3139.42	0.00	3142.68	0.00	0.00	0.00
124 Structure - (226)	3139.40	3142.65	3.26	3139.40	0.00	3142.65	0.00	0.00	0.00
125 Structure - (227)	3139.20	3142.45	3.26	3139.20	0.00	3142.45	0.00	0.00	0.00
126 Structure - (228)	3138.90	3142.16	3.26	3138.90	0.00	3142.16	0.00	0.00	0.00
127 Structure - (229)	3138.75	3142.01	3.26	3138.75	0.00	3142.01	0.00	0.00	0.00
128 Structure - (230)	3138.67	3141.93	3.26	3138.67	0.00	3141.93	0.00	0.00	0.00
129 Structure - (231)	3138.46	3141.71	3.26	3138.46	0.00	3141.71	0.00	0.00	0.00
130 Structure - (232)	3138.31	3141.56	3.26	3138.31	0.00	3141.56	0.00	0.00	0.00
131 Structure - (233)	3138.14	3141.40	3.26	3138.14	0.00	3141.40	0.00	0.00	0.00
132 Structure - (234)	3138.10	3141.35	3.26	3138.10	0.00	3141.35	0.00	0.00	0.00
133 Structure - (235)	3138.00	3142.33	4.33	3138.00	0.00	3142.33	0.00	0.00	0.00
134 Structure - (236)	3137.78	3142.11	4.33	3137.78	0.00	3142.11	0.00	0.00	0.00
135 Structure - (238)	3137.65	3140.90	3.26	3137.65	0.00	3140.90	0.00	0.00	0.00
136 Structure - (239)	3137.50	3142.00	4.50	3137.50	0.00	3142.00	0.00	0.00	0.00
137 Structure - (240)	3137.31	3140.56	3.26	3137.31	0.00	3140.56	0.00	0.00	0.00
138 Structure - (241)	3137.27	3140.52	3.26	3137.27	0.00	3140.52	0.00	0.00	0.00
139 Structure - (242)	3137.23	3140.48	3.26	3137.23	0.00	3140.48	0.00	0.00	0.00
140 Structure - (243)	3137.19	3140.44	3.26	3137.19	0.00	3140.44	0.00	0.00	0.00
141 Structure - (244)	3137.09	3140.35	3.26	3137.09	0.00	3140.35	0.00	0.00	0.00
142 Structure - (245)	3137.04	3140.30	3.26	3137.04	0.00	3140.30	0.00	0.00	0.00
143 Structure - (246)	3136.98	3140.23	3.26	3136.98	0.00	3140.23	0.00	0.00	0.00
144 Structure - (247)	3136.89	3140.14	3.26	3136.89	0.00	3140.14	0.00	0.00	0.00
145 Structure - (248)	3136.61	3139.87	3.26	3136.61	0.00	3139.87	0.00	0.00	0.00
146 Structure - (249)	3136.43	3139.68	3.26	3136.43	0.00	3139.68	0.00	0.00	0.00
147 Structure - (250)	3136.35	3139.60	3.26	3136.35	0.00	3139.60	0.00	0.00	0.00
148 Structure - (251)	3136.30	3139.56	3.26	3136.30	0.00	3139.56	0.00	0.00	0.00
149 Structure - (252)	3136.17	3139.43	3.26	3136.17	0.00	3139.43	0.00	0.00	0.00
150 Structure - (253)	3136.02	3139.28	3.26	3136.02	0.00	3139.28	0.00	0.00	0.00
151 Structure - (254)	3135.63	3138.89	3.26	3135.63	0.00	3138.89	0.00	0.00	0.00
152 Structure - (255)	3135.24	3138.49	3.26	3135.24	0.00	3138.49	0.00	0.00	0.00
153 Structure - (257)	3134.60	3137.86	3.26	3134.60	0.00	3137.86	0.00	0.00	0.00
154 Structure - (258)	3134.47	3137.72	3.26	3134.47	0.00	3137.72	0.00	0.00	0.00
155 Structure - (259)	3134.17	3138.70	4.53	3134.17	0.00	3138.70	0.00	0.00	0.00
156 Structure - (260)	3134.15	3137.41	3.26	3134.15	0.00	3137.41	0.00	0.00	0.00
157 Structure - (261)	3134.03	3137.29	3.26	3134.03	0.00	3137.29	0.00	0.00	0.00
158 Structure - (262)	3133.85	3137.10	3.26	3133.85	0.00	3137.10	0.00	0.00	0.00
159 Structure - (263)	3133.53	3136.78	3.26	3133.53	0.00	3136.78	0.00	0.00	0.00
160 Structure - (264)	3133.40	3136.66	3.26	3133.40	0.00	3136.66	0.00	0.00	0.00
161 Structure - (265)	3133.13	3136.39	3.26	3133.13	0.00	3136.39	0.00	0.00	0.00
162 Structure - (266)	3132.95	3136.20	3.26	3132.95	0.00	3136.20	0.00	0.00	0.00
163 Structure - (267)	3132.90	3136.15	3.26	3132.90	0.00	3136.15	0.00	0.00	0.00
164 Structure - (268)	3132.79	3136.05	3.26	3132.79	0.00	3136.05	0.00	0.00	0.00

## Junction Input

SN Element ID	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Initial Water Elevation (ft)	Initial Water Depth (ft)	Surcharge Elevation (ft)	Surcharge Depth (ft)	Ponded Area (ft <sup>2</sup> )	Minimum Pipe Cover (in)
165 Structure - (269)	3132.58	3137.10	4.52	3132.58	0.00	3137.10	0.00	0.00	0.00
166 Structure - (270)	3132.32	3135.58	3.26	3132.32	0.00	3135.58	0.00	0.00	0.00
167 Structure - (271)	3132.30	3135.55	3.26	3132.30	0.00	3135.55	0.00	0.00	0.00
168 Structure - (273)	3131.95	3135.21	3.26	3131.95	0.00	3135.21	0.00	0.00	0.00
169 Structure - (274)	3131.86	3135.11	3.26	3131.86	0.00	3135.11	0.00	0.00	0.00
170 Structure - (275)	3131.77	3135.02	3.26	3131.77	0.00	3135.02	0.00	0.00	0.00
171 Structure - (276)	3131.69	3134.94	3.26	3131.69	0.00	3134.94	0.00	0.00	0.00
172 Structure - (277)	3131.67	3134.93	3.26	3131.67	0.00	3134.93	0.00	0.00	0.00
173 Structure - (278)	3131.57	3134.83	3.26	3131.57	0.00	3134.83	0.00	0.00	0.00
174 Structure - (279)	3131.31	3134.56	3.26	3131.31	0.00	3134.56	0.00	0.00	0.00
175 Structure - (280)	3131.28	3134.53	3.26	3131.28	0.00	3134.53	0.00	0.00	0.00
176 Structure - (281)	3131.15	3134.40	3.26	3131.15	0.00	3134.40	0.00	0.00	0.00
177 Structure - (282)	3131.01	3134.26	3.26	3131.01	0.00	3134.26	0.00	0.00	0.00
178 Structure - (283)	3130.62	3133.88	3.26	3130.62	0.00	3133.88	0.00	0.00	0.00
179 Structure - (284)	3130.41	3133.67	3.26	3130.41	0.00	3133.67	0.00	0.00	0.00
180 Structure - (285)	3130.16	3133.42	3.26	3130.16	0.00	3133.42	0.00	0.00	0.00
181 Structure - (286)	3129.95	3133.20	3.26	3129.95	0.00	3133.20	0.00	0.00	0.00
182 Structure - (287)	3129.65	3132.91	3.26	3129.65	0.00	3132.91	0.00	0.00	0.00
183 Structure - (288)	3129.36	3132.62	3.26	3129.36	0.00	3132.62	0.00	0.00	0.00
184 Structure - (289)	3129.24	3132.50	3.26	3129.24	0.00	3132.50	0.00	0.00	0.00
185 Structure - (290)	3129.01	3133.50	4.49	3129.01	0.00	3133.50	0.00	0.00	0.00
186 Structure - (291)	3128.73	3131.98	3.26	3128.73	0.00	3131.98	0.00	0.00	0.00
187 Structure - (292)	3128.43	3131.69	3.26	3128.43	0.00	3131.69	0.00	0.00	0.00
188 Structure - (571)	3135.85	3140.40	4.55	3135.85	0.00	3140.40	0.00	0.00	0.00
189 Structure - (572)	3130.80	3135.30	4.50	3130.80	0.00	3135.30	0.00	0.00	0.00
190 Structure - (592)	3151.75	3156.08	4.33	3151.75	0.00	3156.08	0.00	0.00	0.00
191 Structure - (593)	3151.61	3155.94	4.33	3151.61	0.00	3155.94	0.00	0.00	0.00
192 Structure - (594)	3157.95	3160.95	3.00	3158.14	0.19	3161.89	0.94	0.00	0.00
193 Structure - (595)	3157.63	3160.63	3.00	3157.78	0.15	3161.49	0.86	0.00	0.00
194 Structure - (596)	3157.30	3160.30	3.00	3156.95	-0.35	3161.18	0.88	0.00	0.00
195 Structure - (82)	3160.05	3163.31	3.26	3160.05	0.00	3163.31	0.00	0.00	0.00
196 Structure - (83)	3159.91	3163.17	3.26	3159.91	0.00	3163.17	0.00	0.00	0.00
197 Structure - (84)	3159.71	3162.71	3.00	3159.72	0.01	3162.98	0.27	0.00	0.00
198 Structure - (85)	3159.60	3162.60	3.00	3159.61	0.01	3162.86	0.26	0.00	0.00
199 Structure - (86)	3159.51	3162.51	3.00	3159.52	0.01	3162.78	0.27	0.00	0.00
200 Structure - (87)	3159.48	3162.48	3.00	3159.50	0.02	3162.75	0.27	0.00	0.00
201 Structure - (88)	3159.37	3162.37	3.00	3159.39	0.02	3162.64	0.27	0.00	0.00
202 Structure - (89)	3159.34	3162.34	3.00	3159.36	0.02	3162.62	0.28	0.00	0.00
203 Structure - (90)	3159.31	3162.31	3.00	3159.34	0.03	3162.59	0.28	0.00	0.00
204 Structure - (91)	3159.26	3162.26	3.00	3159.29	0.03	3162.55	0.29	0.00	0.00
205 Structure - (92)	3159.18	3162.18	3.00	3159.21	0.03	3162.47	0.29	0.00	0.00
206 Structure - (93)	3159.13	3162.13	3.00	3159.17	0.04	3162.42	0.29	0.00	0.00
207 Structure - (94)	3159.09	3162.09	3.00	3159.13	0.04	3162.39	0.30	0.00	0.00
208 Structure - (95)	3159.05	3162.05	3.00	3159.09	0.04	3162.35	0.30	0.00	0.00
209 Structure - (96)	3159.02	3162.02	3.00	3159.06	0.04	3162.33	0.31	0.00	0.00
210 Structure - (97)	3158.92	3161.92	3.00	3158.88	-0.04	3162.14	0.22	0.00	0.00
211 Structure - (98)	3158.86	3161.86	3.00	3158.83	-0.03	3163.30	1.44	0.00	0.00
212 Structure - (99)	3158.81	3161.81	3.00	3158.79	-0.02	3162.04	0.23	0.00	0.00

# Junction Results

SN	Element ID	Peak Inflow	Max HGL Elevation	Max HGL Depth	Max Surge Depth Attained	Min Freeboard Attained	Average HGL Elevation	Average HGL Depth Attained	Total Flooded Volume
		(cfs)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ac-in)
1	OroleveSiphonOutlet	24.00	3162.40	2.32	0.00	0.68	3162.40	2.32	0.00
2	Structure - (100)	24.00	3160.90	2.14	0.00	1.36	3160.90	2.14	0.00
3	Structure - (101)	24.00	3160.82	2.14	0.00	1.36	3160.82	2.14	0.00
4	Structure - (102)	24.00	3160.61	2.16	0.00	1.34	3160.61	2.16	0.00
5	Structure - (103)	24.00	3160.50	2.16	0.00	1.34	3160.50	2.16	0.00
6	Structure - (104)	24.00	3160.58	2.36	0.00	1.14	3160.58	2.36	0.00
7	Structure - (105)	24.00	3160.53	2.36	0.00	0.64	3160.53	2.36	0.00
8	Structure - (106)	24.00	3160.33	2.19	0.00	1.31	3160.33	2.19	0.00
9	Structure - (107)	24.00	3160.25	2.16	0.00	1.34	3160.25	2.16	0.00
10	Structure - (108)	24.00	3160.21	2.16	0.00	1.34	3160.21	2.16	0.00
11	Structure - (109)	24.00	3160.04	2.11	0.00	1.39	3160.04	2.11	0.00
12	Structure - (110)	24.00	3159.97	2.10	0.00	1.40	3159.97	2.10	0.00
13	Structure - (111)	24.00	3159.98	2.14	0.00	1.36	3159.98	2.14	0.00
14	Structure - (112)	24.00	3159.93	2.14	0.00	1.36	3159.93	2.14	0.00
15	Structure - (113)	24.00	3159.88	2.11	0.00	1.39	3159.88	2.11	0.00
16	Structure - (114)	24.00	3159.85	2.12	0.00	1.38	3159.85	2.12	0.00
17	Structure - (116)	24.00	3159.23	2.13	0.00	1.87	3159.23	2.13	0.00
18	Structure - (117)	24.00	3159.18	2.13	0.00	0.87	3159.18	2.13	0.00
19	Structure - (118)	24.00	3159.07	2.07	0.00	1.43	3159.07	2.07	0.00
20	Structure - (119)	24.00	3159.10	2.15	0.00	1.35	3159.10	2.15	0.00
21	Structure - (120)	24.00	3158.96	2.15	0.00	1.35	3158.96	2.15	0.00
22	Structure - (121)	24.00	3158.43	1.87	0.00	1.83	3158.43	1.87	0.00
23	Structure - (122)	24.00	3158.22	1.87	0.00	1.38	3158.22	1.87	0.00
24	Structure - (123)	24.00	3158.13	1.87	0.00	1.39	3158.13	1.87	0.00
25	Structure - (124)	24.00	3158.01	1.86	0.00	1.39	3158.01	1.86	0.00
26	Structure - (125)	24.00	3157.80	1.87	0.00	1.39	3157.80	1.87	0.00
27	Structure - (126)	24.00	3157.26	1.87	0.00	1.39	3157.26	1.87	0.00
28	Structure - (127)	24.00	3156.61	1.87	0.00	2.69	3156.61	1.87	0.00
29	Structure - (128)	24.00	3156.25	1.87	0.00	1.39	3156.25	1.87	0.00
30	Structure - (129)	24.00	3156.10	1.86	0.00	1.39	3156.10	1.86	0.00
31	Structure - (130)	24.00	3156.04	1.87	0.00	1.39	3156.04	1.87	0.00
32	Structure - (131)	24.00	3155.97	1.87	0.00	1.39	3155.97	1.87	0.00
33	Structure - (132)	24.00	3155.94	1.87	0.00	1.39	3155.94	1.87	0.00
34	Structure - (133)	24.00	3155.73	1.86	0.00	1.39	3155.73	1.86	0.00
35	Structure - (134)	24.00	3155.67	1.86	0.00	1.39	3155.67	1.86	0.00
36	Structure - (135)	24.00	3155.41	1.87	0.00	1.39	3155.41	1.87	0.00
37	Structure - (136)	24.00	3155.66	2.29	0.00	2.03	3155.66	2.29	0.00
38	Structure - (137)	24.00	3155.63	2.29	0.00	2.03	3155.63	2.29	0.00
39	Structure - (138)	24.00	3155.42	2.28	0.00	0.98	3155.42	2.28	0.00
40	Structure - (139)	24.00	3155.15	2.15	0.00	1.35	3155.15	2.15	0.00
41	Structure - (140)	24.00	3155.20	2.28	0.00	1.22	3155.20	2.28	0.00
42	Structure - (141)	24.00	3155.12	2.28	0.00	0.97	3155.12	2.28	0.00
43	Structure - (142)	24.00	3154.89	2.29	0.00	2.21	3154.89	2.29	0.00
44	Structure - (143)	24.00	3154.83	2.29	0.00	0.97	3154.83	2.29	0.00
45	Structure - (144)	24.00	3154.73	2.29	0.00	0.97	3154.73	2.29	0.00
46	Structure - (145)	24.00	3154.65	2.29	0.00	0.97	3154.65	2.29	0.00
47	Structure - (146)	24.00	3154.51	2.29	0.00	0.97	3154.51	2.29	0.00
48	Structure - (147)	24.00	3154.24	2.28	0.00	0.97	3154.24	2.28	0.00
49	Structure - (148)	24.00	3154.15	2.29	0.00	0.97	3154.15	2.29	0.00
50	Structure - (149)	24.00	3154.14	2.34	0.00	0.91	3154.14	2.34	0.00
51	Structure - (150)	24.00	3154.10	2.34	0.00	0.91	3154.10	2.34	0.00
52	Structure - (152)	24.00	3153.83	2.23	0.00	1.03	3153.83	2.23	0.00
53	Structure - (153)	24.00	3153.47	2.21	0.00	1.05	3153.47	2.21	0.00
54	Structure - (154)	24.00	3153.35	2.21	0.00	1.05	3153.35	2.21	0.00
55	Structure - (155)	24.00	3153.19	2.21	0.00	2.31	3153.19	2.21	0.00
56	Structure - (156)	24.00	3152.91	2.21	0.00	1.05	3152.91	2.21	0.00
57	Structure - (157)	24.00	3152.84	2.21	0.00	1.05	3152.84	2.21	0.00
58	Structure - (158)	24.00	3152.60	2.20	0.00	1.05	3152.60	2.20	0.00
59	Structure - (159)	24.00	3152.46	2.20	0.00	1.05	3152.46	2.20	0.00
60	Structure - (160)	24.00	3152.44	2.20	0.00	1.05	3152.44	2.20	0.00
61	Structure - (161)	24.00	3152.38	2.20	0.00	1.05	3152.38	2.20	0.00
62	Structure - (162)	24.00	3152.26	2.21	0.00	1.05	3152.26	2.21	0.00
63	Structure - (163)	24.00	3152.25	2.21	0.00	2.12	3152.25	2.21	0.00
64	Structure - (164)	24.00	3152.07	2.11	0.00	2.22	3152.07	2.11	0.00
65	Structure - (166)	24.00	3151.92	2.11	0.00	1.15	3151.92	2.11	0.00
66	Structure - (167)	24.00	3151.84	2.11	0.00	1.15	3151.84	2.11	0.00
67	Structure - (168)	24.00	3151.76	2.11	0.00	1.15	3151.76	2.11	0.00
68	Structure - (169)	24.00	3151.57	2.11	0.00	2.43	3151.57	2.11	0.00
69	Structure - (170)	24.00	3151.25	2.11	0.00	1.15	3151.25	2.11	0.00
70	Structure - (171)	24.00	3150.98	2.11	0.00	1.15	3150.98	2.11	0.00
71	Structure - (172)	24.00	3150.80	2.11	0.00	1.15	3150.80	2.11	0.00
72	Structure - (173)	24.00	3150.43	2.11	0.00	1.15	3150.43	2.11	0.00
73	Structure - (174)	24.00	3150.30	2.11	0.00	1.15	3150.30	2.11	0.00
74	Structure - (175)	24.00	3149.62	2.11	0.00	2.38	3149.62	2.11	0.00
75	Structure - (176)	24.00	3149.55	2.11	0.00	1.14	3149.55	2.11	0.00
76	Structure - (177)	24.00	3149.48	2.11	0.00	1.15	3149.48	2.11	0.00
77	Structure - (178)	24.00	3149.38	2.11	0.00	1.14	3149.38	2.11	0.00
78	Structure - (179)	24.00	3149.18	2.11	0.00	1.14	3149.18	2.11	0.00
79	Structure - (180)	24.00	3148.98	2.11	0.00	1.15	3148.98	2.11	0.00
80	Structure - (181)	24.00	3148.72	2.11	0.00	1.15	3148.72	2.11	0.00
81	Structure - (182)	24.00	3148.49	2.12	0.00	1.14	3148.49	2.12	0.00

# Junction Results

SN Element ID	Peak Inflow	Max HGL Elevation	Max HGL Depth	Max Surge Depth Attained	Min Freeboard Attained	Average HGL Elevation	Average HGL Depth Attained	Total Flooded Volume
	(cfs)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ac-in)
82 Structure - (183)	24.00	3148.46	2.11	0.00	1.14	3148.46	2.11	0.00
83 Structure - (184)	24.00	3148.40	2.11	0.00	1.15	3148.40	2.11	0.00
84 Structure - (185)	24.00	3148.28	2.11	0.00	1.15	3148.28	2.11	0.00
85 Structure - (186)	24.00	3148.12	2.11	0.00	1.15	3148.12	2.11	0.00
86 Structure - (187)	24.00	3147.94	2.11	0.00	2.22	3147.94	2.11	0.00
87 Structure - (188)	24.00	3147.83	2.11	0.00	2.37	3147.83	2.11	0.00
88 Structure - (189)	24.00	3147.82	2.11	0.00	1.15	3147.82	2.11	0.00
89 Structure - (190)	24.00	3147.67	2.11	0.00	1.14	3147.67	2.11	0.00
90 Structure - (191)	24.00	3147.60	2.11	0.00	1.14	3147.60	2.11	0.00
91 Structure - (192)	24.00	3147.29	2.11	0.00	1.14	3147.29	2.11	0.00
92 Structure - (193)	24.00	3147.20	2.12	0.00	1.14	3147.20	2.12	0.00
93 Structure - (195)	24.00	3146.76	2.11	0.00	1.15	3146.76	2.11	0.00
94 Structure - (196)	24.00	3146.69	2.11	0.00	1.15	3146.69	2.11	0.00
95 Structure - (197)	24.00	3146.46	2.11	0.00	1.15	3146.46	2.11	0.00
96 Structure - (198)	24.00	3146.42	2.11	0.00	1.14	3146.42	2.11	0.00
97 Structure - (199)	24.00	3146.32	2.11	0.00	1.14	3146.32	2.11	0.00
98 Structure - (200)	24.00	3146.22	2.11	0.00	1.15	3146.22	2.11	0.00
99 Structure - (201)	24.00	3146.10	2.11	0.00	2.40	3146.10	2.11	0.00
100 Structure - (202)	24.00	3145.96	2.11	0.00	1.14	3145.96	2.11	0.00
101 Structure - (203)	24.00	3145.87	2.11	0.00	1.14	3145.87	2.11	0.00
102 Structure - (204)	24.00	3145.77	2.11	0.00	1.15	3145.77	2.11	0.00
103 Structure - (205)	24.00	3145.65	2.11	0.00	1.15	3145.65	2.11	0.00
104 Structure - (206)	24.00	3145.31	2.11	0.00	1.15	3145.31	2.11	0.00
105 Structure - (207)	24.00	3145.04	2.11	0.00	1.15	3145.04	2.11	0.00
106 Structure - (208)	24.00	3144.52	2.11	0.00	1.15	3144.52	2.11	0.00
107 Structure - (209)	24.00	3144.45	2.11	0.00	1.59	3144.45	2.11	0.00
108 Structure - (210)	24.00	3144.24	2.00	0.00	1.70	3144.24	2.00	0.00
109 Structure - (211)	24.00	3144.10	1.96	0.00	1.30	3144.10	1.96	0.00
110 Structure - (212)	24.00	3143.74	1.96	0.00	2.56	3143.74	1.96	0.00
111 Structure - (213)	24.00	3143.15	1.95	0.00	1.30	3143.15	1.95	0.00
112 Structure - (214)	24.00	3142.77	1.96	0.00	1.30	3142.77	1.96	0.00
113 Structure - (215)	24.00	3142.29	1.96	0.00	1.30	3142.29	1.96	0.00
114 Structure - (216)	24.00	3142.08	1.96	0.00	1.30	3142.08	1.96	0.00
115 Structure - (217)	24.00	3141.93	1.96	0.00	1.30	3141.93	1.96	0.00
116 Structure - (218)	24.00	3141.81	1.96	0.00	1.30	3141.81	1.96	0.00
117 Structure - (219)	24.00	3141.71	1.96	0.00	1.29	3141.71	1.96	0.00
118 Structure - (220)	24.00	3141.51	1.96	0.00	1.30	3141.51	1.96	0.00
119 Structure - (221)	24.00	3141.69	1.96	0.00	2.51	3141.69	1.96	0.00
120 Structure - (222)	24.00	3141.56	1.96	0.00	1.30	3141.56	1.96	0.00
121 Structure - (223)	24.00	3141.49	1.96	0.00	1.30	3141.49	1.96	0.00
122 Structure - (224)	24.00	3141.40	1.96	0.00	1.30	3141.40	1.96	0.00
123 Structure - (225)	24.00	3141.38	1.96	0.00	1.30	3141.38	1.96	0.00
124 Structure - (226)	24.00	3141.35	1.95	0.00	1.30	3141.35	1.95	0.00
125 Structure - (227)	24.00	3141.15	1.95	0.00	1.30	3141.15	1.95	0.00
126 Structure - (228)	24.00	3140.86	1.96	0.00	1.30	3140.86	1.96	0.00
127 Structure - (229)	24.00	3140.71	1.96	0.00	1.30	3140.71	1.96	0.00
128 Structure - (230)	24.00	3140.63	1.96	0.00	1.30	3140.63	1.96	0.00
129 Structure - (231)	24.00	3140.42	1.96	0.00	1.30	3140.42	1.96	0.00
130 Structure - (232)	24.00	3140.27	1.96	0.00	1.30	3140.27	1.96	0.00
131 Structure - (233)	24.00	3140.10	1.96	0.00	1.30	3140.10	1.96	0.00
132 Structure - (234)	24.00	3140.05	1.95	0.00	1.30	3140.05	1.95	0.00
133 Structure - (235)	24.00	3139.96	1.96	0.00	2.37	3139.96	1.96	0.00
134 Structure - (236)	24.00	3140.01	2.23	0.00	2.09	3140.01	2.23	0.00
135 Structure - (238)	24.00	3139.88	2.23	0.00	1.02	3139.88	2.23	0.00
136 Structure - (239)	24.00	3139.71	2.21	0.00	2.29	3139.71	2.21	0.00
137 Structure - (240)	24.00	3139.52	2.21	0.00	1.04	3139.52	2.21	0.00
138 Structure - (241)	24.00	3139.49	2.22	0.00	1.04	3139.49	2.22	0.00
139 Structure - (242)	24.00	3139.45	2.22	0.00	1.04	3139.45	2.22	0.00
140 Structure - (243)	24.00	3139.40	2.21	0.00	1.04	3139.40	2.21	0.00
141 Structure - (244)	24.00	3139.31	2.22	0.00	1.04	3139.31	2.22	0.00
142 Structure - (245)	24.00	3139.26	2.22	0.00	1.04	3139.26	2.22	0.00
143 Structure - (246)	24.00	3139.19	2.21	0.00	1.04	3139.19	2.21	0.00
144 Structure - (247)	24.00	3139.10	2.21	0.00	1.04	3139.10	2.21	0.00
145 Structure - (248)	24.00	3138.83	2.22	0.00	1.04	3138.83	2.22	0.00
146 Structure - (249)	24.00	3138.64	2.21	0.00	1.04	3138.64	2.21	0.00
147 Structure - (250)	24.00	3138.56	2.21	0.00	1.04	3138.56	2.21	0.00
148 Structure - (251)	24.00	3138.52	2.22	0.00	1.04	3138.52	2.22	0.00
149 Structure - (252)	24.00	3138.39	2.22	0.00	1.04	3138.39	2.22	0.00
150 Structure - (253)	24.00	3138.24	2.22	0.00	1.04	3138.24	2.22	0.00
151 Structure - (254)	24.00	3137.85	2.22	0.00	1.04	3137.85	2.22	0.00
152 Structure - (255)	24.00	3137.45	2.21	0.00	1.04	3137.45	2.21	0.00
153 Structure - (257)	24.00	3136.81	2.21	0.00	1.04	3136.81	2.21	0.00
154 Structure - (258)	24.00	3136.68	2.21	0.00	1.04	3136.68	2.21	0.00
155 Structure - (259)	24.00	3136.39	2.22	0.00	2.31	3136.39	2.22	0.00
156 Structure - (260)	24.00	3136.36	2.21	0.00	1.04	3136.36	2.21	0.00
157 Structure - (261)	24.00	3136.24	2.21	0.00	1.04	3136.24	2.21	0.00
158 Structure - (262)	24.00	3136.06	2.21	0.00	1.04	3136.06	2.21	0.00
159 Structure - (263)	24.00	3135.74	2.21	0.00	1.04	3135.74	2.21	0.00
160 Structure - (264)	24.00	3135.61	2.21	0.00	1.04	3135.61	2.21	0.00
161 Structure - (265)	24.00	3135.35	2.22	0.00	1.04	3135.35	2.22	0.00
162 Structure - (266)	24.00	3135.16	2.21	0.00	1.04	3135.16	2.21	0.00



## Junction Results

SN Element ID	Peak Inflow	Max HGL Elevation Attained	Max HGL Depth Attained	Max Surge Depth Attained	Min Freeboard Attained	Average HGL Elevation Attained	Average HGL Depth Attained	Total Flooded Volume
	(cfs)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ac-in)
163 Structure - (267)	24.00	3135.11	2.21	0.00	1.04	3135.11	2.21	0.00
164 Structure - (268)	24.00	3135.02	2.23	0.00	1.03	3135.02	2.23	0.00
165 Structure - (269)	24.00	3134.80	2.22	0.00	2.30	3134.80	2.22	0.00
166 Structure - (270)	24.00	3134.45	2.13	0.00	1.12	3134.45	2.13	0.00
167 Structure - (271)	24.00	3134.43	2.13	0.00	1.12	3134.43	2.13	0.00
168 Structure - (273)	24.00	3134.08	2.13	0.00	1.12	3134.08	2.13	0.00
169 Structure - (274)	24.00	3133.99	2.13	0.00	1.12	3133.99	2.13	0.00
170 Structure - (275)	24.00	3133.90	2.13	0.00	1.13	3133.90	2.13	0.00
171 Structure - (276)	24.00	3133.83	2.14	0.00	1.11	3133.83	2.14	0.00
172 Structure - (277)	24.00	3133.82	2.15	0.00	1.11	3133.82	2.15	0.00
173 Structure - (278)	24.00	3133.70	2.13	0.00	1.12	3133.70	2.13	0.00
174 Structure - (279)	24.00	3133.44	2.13	0.00	1.12	3133.44	2.13	0.00
175 Structure - (280)	24.00	3133.41	2.13	0.00	1.12	3133.41	2.13	0.00
176 Structure - (281)	24.00	3133.28	2.13	0.00	1.12	3133.28	2.13	0.00
177 Structure - (282)	24.00	3133.14	2.13	0.00	1.12	3133.14	2.13	0.00
178 Structure - (283)	24.00	3132.75	2.13	0.00	1.12	3132.75	2.13	0.00
179 Structure - (284)	24.00	3132.54	2.13	0.00	1.12	3132.54	2.13	0.00
180 Structure - (285)	24.00	3132.30	2.14	0.00	1.12	3132.30	2.14	0.00
181 Structure - (286)	24.00	3132.08	2.13	0.00	1.12	3132.08	2.13	0.00
182 Structure - (287)	24.00	3131.78	2.13	0.00	1.13	3131.78	2.13	0.00
183 Structure - (288)	24.00	3131.49	2.13	0.00	1.12	3131.49	2.13	0.00
184 Structure - (289)	24.00	3131.37	2.13	0.00	1.12	3131.37	2.13	0.00
185 Structure - (290)	24.00	3131.14	2.13	0.00	2.36	3131.14	2.13	0.00
186 Structure - (291)	24.00	3130.86	2.13	0.00	1.12	3130.86	2.13	0.00
187 Structure - (292)	24.00	3130.56	2.13	0.00	1.12	3130.56	2.13	0.00
188 Structure - (571)	24.00	3138.06	2.21	0.00	2.34	3138.06	2.21	0.00
189 Structure - (572)	24.00	3132.93	2.13	0.00	2.37	3132.93	2.13	0.00
190 Structure - (592)	24.00	3154.04	2.29	0.00	2.04	3154.04	2.29	0.00
191 Structure - (593)	24.00	3153.84	2.23	0.00	2.10	3153.84	2.23	0.00
192 Structure - (594)	24.00	3160.06	2.11	0.00	1.39	3160.06	2.11	0.00
193 Structure - (595)	24.00	3159.75	2.12	0.00	1.38	3159.75	2.12	0.00
194 Structure - (596)	24.00	3159.29	1.99	0.00	2.01	3159.29	1.99	0.00
195 Structure - (82)	24.00	3162.37	2.32	0.00	1.18	3162.37	2.32	0.00
196 Structure - (83)	24.00	3162.01	2.10	0.00	1.40	3162.01	2.10	0.00
197 Structure - (84)	24.00	3161.79	2.08	0.00	1.42	3161.79	2.08	0.00
198 Structure - (85)	24.00	3161.69	2.09	0.00	1.41	3161.69	2.09	0.00
199 Structure - (86)	24.00	3161.87	2.36	0.00	1.14	3161.87	2.36	0.00
200 Structure - (87)	24.00	3161.88	2.40	0.00	0.60	3161.88	2.40	0.00
201 Structure - (88)	24.00	3161.77	2.40	0.00	1.10	3161.77	2.40	0.00
202 Structure - (89)	24.00	3161.62	2.28	0.00	1.22	3161.62	2.28	0.00
203 Structure - (90)	24.00	3161.59	2.28	0.00	1.22	3161.59	2.28	0.00
204 Structure - (91)	24.00	3161.39	2.13	0.00	1.37	3161.39	2.13	0.00
205 Structure - (92)	24.00	3161.29	2.11	0.00	1.39	3161.29	2.11	0.00
206 Structure - (93)	24.00	3161.23	2.10	0.00	1.40	3161.23	2.10	0.00
207 Structure - (94)	24.00	3161.19	2.10	0.00	1.40	3161.19	2.10	0.00
208 Structure - (95)	24.00	3161.34	2.29	0.00	1.21	3161.34	2.29	0.00
209 Structure - (96)	24.00	3161.31	2.29	0.00	1.21	3161.31	2.29	0.00
210 Structure - (97)	24.00	3161.07	2.15	0.00	1.35	3161.07	2.15	0.00
211 Structure - (98)	24.00	3160.99	2.13	0.00	1.37	3160.99	2.13	0.00
212 Structure - (99)	24.00	3160.93	2.12	0.00	1.38	3160.93	2.12	0.00

# Pipe Input

SN Element ID	Length (ft)	Inlet Invert Elevation (ft)	Outlet Invert Elevation (ft)	Average Slope (%)	Pipe Diameter or Height (in)	Manning's Roughness	Entrance Losses	Exit/Bend Losses	Initial Flow (cfs)
1 Pipe - (100)	95.97	3158.34	3158.22	0.1300	42.000	0.0130	0.6000	0.6000	0.00
2 Pipe - (100)-WoodtoHdpe	95.21	3158.45	3158.34	0.1200	42.000	0.0130	0.6000	0.6000	0.00
3 Pipe - (101)	35.62	3158.22	3158.17	0.1400	36.000	0.0130	0.6000	0.6000	0.00
4 Pipe - (102)	18.05	3158.17	3158.14	0.1700	36.000	0.0130	0.6000	0.6000	0.00
5 Pipe - (103)	37.45	3158.14	3158.09	0.1300	42.000	0.0130	0.6000	0.6000	0.00
6 Pipe - (104)	34.66	3158.09	3158.05	0.1200	42.000	0.0130	0.6000	0.6000	0.00
7 Pipe - (104)-WoodtoHdpe	79.43	3158.05	3157.95	0.1300	42.000	0.0130	0.6000	0.6000	0.00
8 Pipe - (105)	47.62	3157.93	3157.87	0.1300	42.000	0.0130	0.6000	0.6000	0.00
9 Pipe - (105)-WoodtoHdpe	16.00	3157.95	3157.93	0.1200	42.000	0.0130	0.6000	0.6000	0.00
10 Pipe - (106)	23.07	3157.87	3157.84	0.1300	42.000	0.0130	0.6000	0.6000	0.00
11 Pipe - (107)	41.68	3157.84	3157.79	0.1200	42.000	0.0130	0.6000	0.6000	0.00
12 Pipe - (108)	15.01	3157.79	3157.77	0.1300	42.000	0.0130	0.6000	0.6000	0.00
13 Pipe - (109)	32.16	3157.77	3157.73	0.1200	42.000	0.0130	0.6000	0.6000	0.00
14 Pipe - (109)-WoodtoHdpe	81.51	3157.73	3157.63	0.1200	42.000	0.0130	0.6000	0.6000	0.00
15 Pipe - (110)-EXCMP	175.95	3157.30	3157.10	0.1100	48.000	0.0130	0.6000	0.6000	0.00
16 Pipe - (110)-WoodtoHdpe	128.31	3157.63	3157.30	0.2600	36.000	0.0130	0.6000	0.6000	0.00
17 Pipe - (111)	27.92	3157.10	3157.05	0.1800	36.000	0.0130	0.6000	0.6000	0.00
18 Pipe - (112)	24.40	3157.05	3157.00	0.2000	36.000	0.0130	0.6000	0.6000	0.00
19 Pipe - (113)	37.92	3157.00	3156.95	0.1300	42.000	0.0130	0.6000	0.6000	0.00
20 Pipe - (114)	119.83	3156.95	3156.81	0.1200	42.000	0.0130	0.6000	0.6000	0.00
21 Pipe - (114)-WoodtoHdpe	51.66	3156.81	3156.56	0.4800	36.000	0.0130	0.6000	0.6000	0.00
22 Pipe - (115)	84.00	3156.56	3156.35	0.2500	36.000	0.0130	0.6000	0.6000	0.00
23 Pipe - (116)	33.36	3156.35	3156.26	0.2600	36.000	0.0130	0.6000	0.6000	0.00
24 Pipe - (117)	44.04	3156.26	3156.15	0.2600	36.000	0.0130	0.6000	0.6000	0.00
25 Pipe - (118)	83.78	3156.15	3155.93	0.2600	36.000	0.0130	0.6000	0.6000	0.00
26 Pipe - (119)	208.66	3155.93	3155.39	0.2600	36.000	0.0130	0.6000	0.6000	0.00
27 Pipe - (120)	250.61	3155.39	3154.74	0.2600	36.000	0.0130	0.6000	0.6000	0.00
28 Pipe - (121)	140.83	3154.74	3154.38	0.2600	36.000	0.0130	0.6000	0.6000	0.00
29 Pipe - (122)	55.04	3154.38	3154.24	0.2600	36.000	0.0130	0.6000	0.6000	0.00
30 Pipe - (123)	26.16	3154.24	3154.17	0.2600	36.000	0.0130	0.6000	0.6000	0.00
31 Pipe - (124)	28.87	3154.17	3154.10	0.2600	36.000	0.0130	0.6000	0.6000	0.00
32 Pipe - (125)	11.23	3154.10	3154.07	0.2600	36.000	0.0130	0.6000	0.6000	0.00
33 Pipe - (126)	77.62	3154.07	3153.87	0.2600	36.000	0.0130	0.6000	0.6000	0.00
34 Pipe - (127)	23.86	3153.87	3153.81	0.2600	36.000	0.0130	0.6000	0.6000	0.00
35 Pipe - (128)	101.97	3153.81	3153.54	0.2600	36.000	0.0130	0.6000	0.6000	0.00
36 Pipe - (129)	67.10	3153.54	3153.37	0.2600	36.000	0.0130	0.6000	0.6000	0.00
37 Pipe - (130)	20.12	3153.37	3153.34	0.1500	36.000	0.0130	0.6000	0.6000	0.00
38 Pipe - (131)	133.97	3153.34	3153.14	0.1500	36.000	0.0130	0.6000	0.6000	0.00
39 Pipe - (132)	78.52	3153.14	3153.00	0.1800	36.000	0.0130	0.6000	0.6000	0.00
40 Pipe - (133)	69.06	3153.00	3152.92	0.1200	42.000	0.0130	0.6000	0.6000	0.00
41 Pipe - (134)	52.13	3152.92	3152.84	0.1500	36.000	0.0130	0.6000	0.6000	0.00
42 Pipe - (135)	158.93	3152.84	3152.60	0.1500	36.000	0.0130	0.6000	0.6000	0.00
43 Pipe - (136)	39.78	3152.60	3152.54	0.1500	36.000	0.0130	0.6000	0.6000	0.00
44 Pipe - (137)	67.12	3152.54	3152.44	0.1500	36.000	0.0130	0.6000	0.6000	0.00
45 Pipe - (138)	51.56	3152.44	3152.36	0.1500	36.000	0.0130	0.6000	0.6000	0.00
46 Pipe - (139)	94.11	3152.36	3152.22	0.1500	36.000	0.0130	0.6000	0.6000	0.00
47 Pipe - (140)	175.48	3152.22	3151.96	0.1500	36.000	0.0130	0.6000	0.6000	0.00
48 Pipe - (141)	61.79	3151.96	3151.86	0.1500	36.000	0.0130	0.6000	0.6000	0.00
49 Pipe - (142)	39.96	3151.86	3151.80	0.1600	36.000	0.0130	0.6000	0.6000	0.00
50 Pipe - (143)	27.82	3151.80	3151.76	0.1400	36.000	0.0130	0.6000	0.6000	0.00
51 Pipe - (143)-ExCMPtoHDPE	79.25	3151.75	3151.61	0.1800	36.000	0.0130	0.6000	0.6000	0.00
52 Pipe - (144)	6.88	3151.76	3151.75	0.1500	36.000	0.0130	0.6000	0.6000	0.00
53 Pipe - (145)	6.27	3151.61	3151.60	0.1600	36.000	0.0130	0.6000	0.6000	0.00
54 Pipe - (146)	210.73	3151.60	3151.26	0.1600	36.000	0.0130	0.6000	0.6000	0.00
55 Pipe - (147)	69.19	3151.26	3151.14	0.1600	36.000	0.0130	0.6000	0.6000	0.00
56 Pipe - (148)	98.64	3151.14	3150.98	0.1600	36.000	0.0130	0.6000	0.6000	0.00
57 Pipe - (150)	42.62	3150.70	3150.63	0.1600	36.000	0.0130	0.6000	0.6000	0.00
58 Pipe - (151)	168.61	3150.98	3150.70	0.1600	36.000	0.0130	0.6000	0.6000	0.00
59 Pipe - (152)	144.64	3150.63	3150.40	0.1600	36.000	0.0130	0.6000	0.6000	0.00
60 Pipe - (153)	83.89	3150.40	3150.26	0.1600	36.000	0.0130	0.6000	0.6000	0.00
61 Pipe - (154)	14.09	3150.26	3150.24	0.1600	36.000	0.0130	0.6000	0.6000	0.00
62 Pipe - (155)	34.05	3150.24	3150.18	0.1600	36.000	0.0130	0.6000	0.6000	0.00
63 Pipe - (156)	79.15	3150.18	3150.05	0.1600	36.000	0.0130	0.6000	0.6000	0.00
64 Pipe - (157)	6.48	3150.05	3150.04	0.1600	36.000	0.0130	0.6000	0.6000	0.00
65 Pipe - (158)-ExCMPtoHDPE	42.50	3150.04	3149.96	0.1800	36.000	0.0130	0.6000	0.6000	0.00
66 Pipe - (159)	84.29	3149.96	3149.81	0.1800	36.000	0.0130	0.6000	0.6000	0.00
67 Pipe - (160)	42.07	3149.81	3149.73	0.1800	36.000	0.0130	0.6000	0.6000	0.00
68 Pipe - (161)	45.11	3149.73	3149.65	0.1800	36.000	0.0130	0.6000	0.6000	0.00
69 Pipe - (162)	101.12	3149.65	3149.46	0.1800	36.000	0.0130	0.6000	0.6000	0.00
70 Pipe - (163)	178.38	3149.46	3149.14	0.1800	36.000	0.0130	0.6000	0.6000	0.00
71 Pipe - (164)	149.74	3149.14	3148.87	0.1800	36.000	0.0130	0.6000	0.6000	0.00
72 Pipe - (165)	94.63	3148.87	3148.69	0.1800	36.000	0.0130	0.6000	0.6000	0.00
73 Pipe - (166)	202.14	3148.69	3148.32	0.1800	36.000	0.0130	0.6000	0.6000	0.00
74 Pipe - (167)	71.05	3148.32	3148.19	0.1800	36.000	0.0130	0.6000	0.6000	0.00
75 Pipe - (168)	376.77	3148.19	3147.51	0.1800	36.000	0.0130	0.6000	0.6000	0.00
76 Pipe - (169)	38.21	3147.51	3147.44	0.1800	36.000	0.0130	0.6000	0.6000	0.00
77 Pipe - (170)	33.64	3147.44	3147.37	0.1800	36.000	0.0130	0.6000	0.6000	0.00
78 Pipe - (171)	58.55	3147.37	3147.27	0.1800	36.000	0.0130	0.6000	0.6000	0.00
79 Pipe - (172)	109.91	3147.27	3147.07	0.1800	36.000	0.0130	0.6000	0.6000	0.00
80 Pipe - (173)	108.38	3147.07	3146.87	0.1800	36.000	0.0130	0.6000	0.6000	0.00
81 Pipe - (174)	140.28	3146.87	3146.61	0.1800	36.000	0.0130	0.6000	0.6000	0.00
82 Pipe - (175)	130.61	3146.61	3146.37	0.1800	36.000	0.0130	0.6000	0.6000	0.00

# Pipe Input

SN Element ID	Length (ft)	Inlet Invert Elevation (ft)	Outlet Invert Elevation (ft)	Average Slope (%)	Pipe Diameter or Height (in)	Manning's Roughness	Entrance Losses	Exit/Bend Losses	Initial Flow (cfs)
83 Pipe - (176)	15.81	3146.37	3146.35	0.1800	36.000	0.0130	0.6000	0.6000	0.00
84 Pipe - (177)	29.50	3146.35	3146.29	0.1800	36.000	0.0130	0.6000	0.6000	0.00
85 Pipe - (178)	66.39	3146.29	3146.17	0.1800	36.000	0.0130	0.6000	0.6000	0.00
86 Pipe - (179)	89.00	3146.17	3146.01	0.1800	36.000	0.0130	0.6000	0.6000	0.00
87 Pipe - (180)	97.78	3146.01	3145.83	0.1800	36.000	0.0130	0.6000	0.6000	0.00
88 Pipe - (181)	59.83	3145.83	3145.72	0.1800	36.000	0.0130	0.6000	0.6000	0.00
89 Pipe - (182)	6.65	3145.72	3145.71	0.1900	36.000	0.0130	0.6000	0.6000	0.00
90 Pipe - (183)	81.87	3145.71	3145.56	0.1800	36.000	0.0130	0.6000	0.6000	0.00
91 Pipe - (184)	37.14	3145.56	3145.49	0.1800	36.000	0.0130	0.6000	0.6000	0.00
92 Pipe - (185)	171.25	3145.49	3145.18	0.1800	36.000	0.0130	0.6000	0.6000	0.00
93 Pipe - (186)	50.77	3145.18	3145.08	0.1800	36.000	0.0130	0.6000	0.6000	0.00
94 Pipe - (189)	36.53	3144.65	3144.58	0.1800	36.000	0.0130	0.6000	0.6000	0.00
95 Pipe - (190)	126.36	3144.58	3144.35	0.1800	36.000	0.0130	0.6000	0.6000	0.00
96 Pipe - (191)	19.86	3144.35	3144.31	0.1800	36.000	0.0130	0.6000	0.6000	0.00
97 Pipe - (192)	59.18	3144.31	3144.21	0.1800	36.000	0.0130	0.6000	0.6000	0.00
98 Pipe - (193)	53.03	3144.21	3144.11	0.1800	36.000	0.0130	0.6000	0.6000	0.00
99 Pipe - (194)	67.10	3144.11	3143.99	0.1800	36.000	0.0130	0.6000	0.6000	0.00
100 Pipe - (195)	74.90	3143.99	3143.85	0.1800	36.000	0.0130	0.6000	0.6000	0.00
101 Pipe - (196)	48.61	3143.85	3143.76	0.1800	36.000	0.0130	0.6000	0.6000	0.00
102 Pipe - (197)	58.06	3143.76	3143.66	0.1800	36.000	0.0130	0.6000	0.6000	0.00
103 Pipe - (198)	62.71	3143.66	3143.54	0.1800	36.000	0.0130	0.6000	0.6000	0.00
104 Pipe - (199)	184.46	3143.54	3143.20	0.1800	36.000	0.0130	0.6000	0.6000	0.00
105 Pipe - (200)	147.79	3143.20	3142.93	0.1800	36.000	0.0130	0.6000	0.6000	0.00
106 Pipe - (201)	286.90	3142.93	3142.41	0.1800	36.000	0.0130	0.6000	0.6000	0.00
107 Pipe - (202)	38.21	3142.41	3142.34	0.1800	36.000	0.0130	0.6000	0.6000	0.00
108 Pipe - (202)-WoodtoHdpe	47.51	3142.34	3142.24	0.2100	36.000	0.0130	0.6000	0.6000	0.00
109 Pipe - (203)	45.26	3142.24	3142.14	0.2200	36.000	0.0130	0.6000	0.6000	0.00
110 Pipe - (204)	160.26	3142.14	3141.78	0.2200	36.000	0.0130	0.6000	0.6000	0.00
111 Pipe - (205)	261.48	3141.78	3141.20	0.2200	36.000	0.0130	0.6000	0.6000	0.00
112 Pipe - (206)	173.08	3141.20	3140.81	0.2200	36.000	0.0130	0.6000	0.6000	0.00
113 Pipe - (207)	213.13	3140.81	3140.33	0.2200	36.000	0.0130	0.6000	0.6000	0.00
114 Pipe - (208)	94.77	3140.33	3140.12	0.2200	36.000	0.0130	0.6000	0.6000	0.00
115 Pipe - (209)	66.56	3140.12	3139.97	0.2200	36.000	0.0130	0.6000	0.6000	0.00
116 Pipe - (210)	52.21	3139.97	3139.85	0.2200	36.000	0.0130	0.6000	0.6000	0.00
117 Pipe - (211)	45.50	3139.85	3139.75	0.2200	36.000	0.0130	0.6000	0.6000	0.00
118 Pipe - (213)	10.12	3139.75	3139.73	0.2200	36.000	0.0130	0.6000	0.6000	0.00
119 Pipe - (214)	59.31	3139.73	3139.60	0.2200	36.000	0.0130	0.6000	0.6000	0.00
120 Pipe - (215)	21.44	3139.60	3139.55	0.2200	36.000	0.0130	0.6000	0.6000	0.00
121 Pipe - (216)	9.56	3139.55	3139.53	0.2200	36.000	0.0130	0.6000	0.6000	0.00
122 Pipe - (217)	39.39	3139.53	3139.44	0.2200	36.000	0.0130	0.6000	0.6000	0.00
123 Pipe - (218)	9.01	3139.44	3139.42	0.2200	36.000	0.0130	0.6000	0.6000	0.00
124 Pipe - (219)	10.46	3139.42	3139.40	0.2200	36.000	0.0130	0.6000	0.6000	0.00
125 Pipe - (220)	89.67	3139.40	3139.20	0.2200	36.000	0.0130	0.6000	0.6000	0.00
126 Pipe - (221)	130.19	3139.20	3138.90	0.2200	36.000	0.0130	0.6000	0.6000	0.00
127 Pipe - (222)	67.12	3138.90	3138.75	0.2200	36.000	0.0130	0.6000	0.6000	0.00
128 Pipe - (223)	37.55	3138.75	3138.67	0.2200	36.000	0.0130	0.6000	0.6000	0.00
129 Pipe - (224)	94.62	3138.67	3138.46	0.2200	36.000	0.0130	0.6000	0.6000	0.00
130 Pipe - (225)	67.15	3138.46	3138.31	0.2200	36.000	0.0130	0.6000	0.6000	0.00
131 Pipe - (226)	74.60	3138.31	3138.14	0.2200	36.000	0.0130	0.6000	0.6000	0.00
132 Pipe - (227)	20.71	3138.14	3138.10	0.2200	36.000	0.0130	0.6000	0.6000	0.00
133 Pipe - (228)	42.77	3138.10	3138.00	0.2200	36.000	0.0130	0.6000	0.6000	0.00
134 Pipe - (229)	41.29	3138.00	3137.78	0.5300	36.000	0.0130	0.6000	0.6000	0.00
135 Pipe - (230)	238.89	3145.08	3144.65	0.1800	36.000	0.0130	0.6000	0.6000	0.00
136 Pipe - (231)	84.57	3137.78	3137.65	0.1600	36.000	0.0130	0.6000	0.6000	0.00
137 Pipe - (232)	91.67	3137.65	3137.50	0.1600	36.000	0.0130	0.6000	0.6000	0.00
138 Pipe - (233)	117.55	3137.50	3137.31	0.1600	36.000	0.0130	0.6000	0.6000	0.00
139 Pipe - (234)	22.80	3137.31	3137.27	0.1600	36.000	0.0130	0.6000	0.6000	0.00
140 Pipe - (235)	26.99	3137.27	3137.23	0.1600	36.000	0.0130	0.6000	0.6000	0.00
141 Pipe - (236)	22.10	3137.23	3137.19	0.1600	36.000	0.0130	0.6000	0.6000	0.00
142 Pipe - (237)	58.82	3137.19	3137.09	0.1600	36.000	0.0130	0.6000	0.6000	0.00
143 Pipe - (238)	30.18	3137.09	3137.04	0.1600	36.000	0.0130	0.6000	0.6000	0.00
144 Pipe - (239)	40.30	3137.04	3136.98	0.1600	36.000	0.0130	0.6000	0.6000	0.00
145 Pipe - (240)	55.56	3136.98	3136.89	0.1600	36.000	0.0130	0.6000	0.6000	0.00
146 Pipe - (241)	168.98	3136.89	3136.61	0.1600	36.000	0.0130	0.6000	0.6000	0.00
147 Pipe - (242)	114.72	3136.61	3136.43	0.1600	36.000	0.0130	0.6000	0.6000	0.00
148 Pipe - (243)	50.77	3136.43	3136.35	0.1600	36.000	0.0130	0.6000	0.6000	0.00
149 Pipe - (244)	26.72	3136.35	3136.30	0.1600	36.000	0.0130	0.6000	0.6000	0.00
150 Pipe - (245)	78.37	3136.30	3136.17	0.1600	36.000	0.0130	0.6000	0.6000	0.00
151 Pipe - (246)	93.33	3136.17	3136.02	0.1600	36.000	0.0130	0.6000	0.6000	0.00
152 Pipe - (248)	244.36	3135.63	3135.24	0.1600	36.000	0.0130	0.6000	0.6000	0.00
153 Pipe - (251)	82.48	3134.60	3134.47	0.1600	36.000	0.0130	0.6000	0.6000	0.00
154 Pipe - (252)	390.16	3135.24	3134.60	0.1600	36.000	0.0130	0.6000	0.6000	0.00
155 Pipe - (253)	180.66	3134.47	3134.17	0.1600	36.000	0.0130	0.6000	0.6000	0.00
156 Pipe - (254)	13.67	3134.17	3134.15	0.1600	36.000	0.0130	0.6000	0.6000	0.00
157 Pipe - (255)	74.60	3134.15	3134.03	0.1600	36.000	0.0130	0.6000	0.6000	0.00
158 Pipe - (256)	113.19	3134.03	3133.85	0.1600	36.000	0.0130	0.6000	0.6000	0.00
159 Pipe - (257)	198.51	3133.85	3133.53	0.1600	36.000	0.0130	0.6000	0.6000	0.00
160 Pipe - (258)	77.15	3133.53	3133.40	0.1600	36.000	0.0130	0.6000	0.6000	0.00
161 Pipe - (259)	163.89	3133.40	3133.13	0.1600	36.000	0.0130	0.6000	0.6000	0.00
162 Pipe - (260)	115.26	3133.13	3132.95	0.1600	36.000	0.0130	0.6000	0.6000	0.00
163 Pipe - (261)	31.20	3132.95	3132.90	0.1600	36.000	0.0130	0.6000	0.6000	0.00
164 Pipe - (262)	47.62	3132.90	3132.79	0.2200	36.000	0.0130	0.6000	0.6000	0.00

# Pipe Input

SN Element ID	Length (ft)	Inlet Invert Elevation (ft)	Outlet Invert Elevation (ft)	Average Slope (%)	Pipe Diameter or Height (in)	Manning's Roughness	Entrance Losses	Exit/Bend Losses	Initial Flow (cfs)
165 Pipe - (263)	135.47	3132.79	3132.58	0.1600	36.000	0.0130	0.6000	0.6000	0.00
166 Pipe - (264)	143.14	3132.58	3132.32	0.1800	36.000	0.0130	0.6000	0.6000	0.00
167 Pipe - (265)	13.67	3132.32	3132.30	0.1800	36.000	0.0130	0.6000	0.6000	0.00
168 Pipe - (267)	194.18	3132.30	3131.95	0.1800	36.000	0.0130	0.6000	0.6000	0.00
169 Pipe - (268)	51.80	3131.95	3131.86	0.1800	36.000	0.0130	0.6000	0.6000	0.00
170 Pipe - (269)	51.03	3131.86	3131.77	0.1800	36.000	0.0130	0.6000	0.6000	0.00
171 Pipe - (270)	44.17	3131.77	3131.69	0.1800	36.000	0.0130	0.6000	0.6000	0.00
172 Pipe - (271)	9.73	3131.69	3131.67	0.1800	36.000	0.0130	0.6000	0.6000	0.00
173 Pipe - (272)	56.32	3131.67	3131.57	0.1800	36.000	0.0130	0.6000	0.6000	0.00
174 Pipe - (273)	148.27	3131.57	3131.31	0.1800	36.000	0.0130	0.6000	0.6000	0.00
175 Pipe - (274)	15.52	3131.31	3131.28	0.1800	36.000	0.0130	0.6000	0.6000	0.00
176 Pipe - (275)	72.68	3131.28	3131.15	0.1800	36.000	0.0130	0.6000	0.6000	0.00
177 Pipe - (276)	80.44	3131.15	3131.01	0.1800	36.000	0.0130	0.6000	0.6000	0.00
178 Pipe - (277)	116.90	3131.01	3130.80	0.1800	36.000	0.0130	0.6000	0.6000	0.00
179 Pipe - (277) (1)	99.10	3130.80	3130.62	0.1800	36.000	0.0130	0.6000	0.6000	0.00
180 Pipe - (278)	116.57	3130.62	3130.41	0.1800	36.000	0.0130	0.6000	0.6000	0.00
181 Pipe - (279)	139.23	3130.41	3130.16	0.1800	36.000	0.0130	0.6000	0.6000	0.00
182 Pipe - (280)	120.79	3130.16	3129.95	0.1800	36.000	0.0130	0.6000	0.6000	0.00
183 Pipe - (281)	167.51	3129.95	3129.65	0.1800	36.000	0.0130	0.6000	0.6000	0.00
184 Pipe - (282)	161.28	3129.65	3129.36	0.1800	36.000	0.0130	0.6000	0.6000	0.00
185 Pipe - (283)	69.39	3129.36	3129.24	0.1800	36.000	0.0130	0.6000	0.6000	0.00
186 Pipe - (284)	131.42	3129.24	3129.01	0.1800	36.000	0.0130	0.6000	0.6000	0.00
187 Pipe - (285)	156.43	3129.01	3128.73	0.1800	36.000	0.0130	0.6000	0.6000	0.00
188 Pipe - (286)	164.53	3128.73	3128.43	0.1800	36.000	0.0130	0.6000	0.6000	0.00
189 Pipe - (287)	71.45	3128.43	3128.31	0.1800	36.000	0.0130	0.6000	0.6000	0.00
190 Pipe - (446)	107.05	3136.02	3135.85	0.1600	36.000	0.0130	0.6000	0.6000	0.00
191 Pipe - (446) (1)	133.45	3135.85	3135.63	0.1600	36.000	0.0130	0.6000	0.6000	0.00
192 Pipe - (79)	20.64	3160.08	3160.05	0.1500	36.000	0.0130	0.6000	0.6000	0.00
193 Pipe - (80)	110.08	3160.05	3159.91	0.1300	42.000	0.0130	0.6000	0.6000	0.00
194 Pipe - (81)	153.56	3159.91	3159.71	0.1300	42.000	0.0130	0.6000	0.6000	0.00
195 Pipe - (82)	82.77	3159.71	3159.60	0.1300	42.000	0.0130	0.6000	0.6000	0.00
196 Pipe - (83)	70.71	3159.60	3159.51	0.1300	42.000	0.0130	0.6000	0.6000	0.00
197 Pipe - (84)	21.39	3159.51	3159.48	0.1400	36.000	0.0130	0.6000	0.6000	0.00
198 Pipe - (85)	81.01	3159.48	3159.37	0.1400	36.000	0.0130	0.6000	0.6000	0.00
199 Pipe - (86)	22.84	3159.37	3159.34	0.1300	42.000	0.0130	0.6000	0.6000	0.00
200 Pipe - (87)	19.85	3159.34	3159.31	0.1500	36.000	0.0130	0.6000	0.6000	0.00
201 Pipe - (88)	41.17	3159.31	3159.26	0.1200	42.000	0.0130	0.6000	0.6000	0.00
202 Pipe - (89)	63.93	3159.26	3159.18	0.1300	42.000	0.0130	0.6000	0.6000	0.00
203 Pipe - (90)	39.13	3159.18	3159.13	0.1300	42.000	0.0130	0.6000	0.6000	0.00
204 Pipe - (91)	31.71	3159.13	3159.09	0.1300	42.000	0.0130	0.6000	0.6000	0.00
205 Pipe - (92)	29.66	3159.09	3159.05	0.1300	42.000	0.0130	0.6000	0.6000	0.00
206 Pipe - (93)-ExCMPtoHDPE	20.02	3159.05	3159.02	0.1500	36.000	0.0130	0.6000	0.6000	0.00
207 Pipe - (94)	85.59	3159.02	3158.92	0.1200	42.000	0.0130	0.6000	0.6000	0.00
208 Pipe - (95)	49.62	3158.92	3158.86	0.1200	42.000	0.0130	0.6000	0.6000	0.00
209 Pipe - (96)	41.00	3158.86	3158.81	0.1200	42.000	0.0130	0.6000	0.6000	0.00
210 Pipe - (97)	35.96	3158.81	3158.77	0.1300	42.000	0.0130	0.6000	0.6000	0.00
211 Pipe - (98)	70.99	3158.77	3158.68	0.1200	42.000	0.0130	0.6000	0.6000	0.00
212 Pipe - (99)	194.16	3158.68	3158.45	0.1200	42.000	0.0130	0.6000	0.6000	0.00

# Pipe Results

SN Element ID	Peak Flow	Design Flow Capacity	Peak Flow / Design Flow Ratio	Peak Flow Velocity	Travel Time	Peak Flow Depth	Peak Flow Depth / Total Depth Ratio	Froude Number	Reported Condition
	(cfs)	(cfs)		(ft/sec)	(min)	(ft)			
1 Pipe - (100)	24.00	35.58	0.67	3.97	0.40	2.11	0.60		Calculated
2 Pipe - (100)-WoodtoHdpe	24.00	34.20	0.70	3.85	0.41	2.16	0.62		Calculated
3 Pipe - (101)	24.00	24.99	0.96	4.02	0.15	2.36	0.79		Calculated
4 Pipe - (102)	24.00	27.19	0.88	4.34	0.07	2.19	0.73		Calculated
5 Pipe - (103)	24.00	36.76	0.65	4.07	0.15	2.06	0.59		Calculated
6 Pipe - (104)	24.00	34.18	0.70	3.84	0.15	2.16	0.62		Calculated
7 Pipe - (104)-WoodtoHdpe	24.00	35.70	0.67	3.98	0.33	2.10	0.60		Calculated
8 Pipe - (105)	24.00	35.71	0.67	3.98	0.20	2.10	0.60		Calculated
9 Pipe - (105)-WoodtoHdpe	24.00	35.57	0.67	3.97	0.07	2.11	0.60		Calculated
10 Pipe - (106)	24.00	36.28	0.66	4.03	0.10	2.08	0.59		Calculated
11 Pipe - (107)	24.00	34.85	0.69	3.90	0.18	2.14	0.61		Calculated
12 Pipe - (108)	24.00	36.73	0.65	4.07	0.06	2.06	0.59		Calculated
13 Pipe - (109)	24.00	35.48	0.68	3.96	0.14	2.11	0.60		Calculated
14 Pipe - (109)-WoodtoHdpe	24.00	35.24	0.68	3.94	0.34	2.12	0.61		Calculated
15 Pipe - (110)-EXCMP	24.00	48.43	0.50	3.84	0.76	1.99	0.50		Calculated
16 Pipe - (110)-WoodtoHdpe	24.00	33.83	0.71	5.19	0.41	1.87	0.62		Calculated
17 Pipe - (111)	24.00	28.22	0.85	4.48	0.10	2.13	0.71		Calculated
18 Pipe - (112)	24.00	30.20	0.79	4.74	0.09	2.02	0.67		Calculated
19 Pipe - (113)	24.00	36.53	0.66	4.05	0.16	2.07	0.59		Calculated
20 Pipe - (114)	24.00	34.39	0.70	3.86	0.52	2.15	0.62		Calculated
21 Pipe - (114)-WoodtoHdpe	24.00	46.40	0.52	6.62	0.13	1.53	0.51		Calculated
22 Pipe - (115)	24.00	33.64	0.71	5.17	0.27	1.87	0.62		Calculated
23 Pipe - (116)	24.00	33.90	0.71	5.20	0.11	1.86	0.62		Calculated
24 Pipe - (117)	24.00	33.87	0.71	5.20	0.14	1.87	0.62		Calculated
25 Pipe - (118)	24.00	33.88	0.71	5.20	0.27	1.87	0.62		Calculated
26 Pipe - (119)	24.00	33.88	0.71	5.20	0.67	1.86	0.62		Calculated
27 Pipe - (120)	24.00	33.89	0.71	5.20	0.80	1.86	0.62		Calculated
28 Pipe - (121)	24.00	33.89	0.71	5.20	0.45	1.86	0.62		Calculated
29 Pipe - (122)	24.00	33.87	0.71	5.20	0.18	1.87	0.62		Calculated
30 Pipe - (123)	24.00	33.91	0.71	5.20	0.08	1.86	0.62		Calculated
31 Pipe - (124)	24.00	33.86	0.71	5.19	0.09	1.87	0.62		Calculated
32 Pipe - (125)	24.00	33.75	0.71	5.18	0.04	1.87	0.62		Calculated
33 Pipe - (126)	24.00	33.93	0.71	5.20	0.25	1.86	0.62		Calculated
34 Pipe - (127)	24.00	33.85	0.71	5.19	0.08	1.87	0.62		Calculated
35 Pipe - (128)	24.00	33.89	0.71	5.20	0.33	1.86	0.62		Calculated
36 Pipe - (129)	24.00	33.85	0.71	5.19	0.22	1.87	0.62		Calculated
37 Pipe - (130)	24.00	25.76	0.93	4.14	0.08	2.29	0.76		Calculated
38 Pipe - (131)	24.00	25.93	0.93	4.16	0.54	2.28	0.76		Calculated
39 Pipe - (132)	24.00	27.91	0.86	4.44	0.29	2.15	0.72		Calculated
40 Pipe - (133)	24.00	34.86	0.69	3.90	0.30	2.14	0.61		Calculated
41 Pipe - (134)	24.00	25.92	0.93	4.16	0.21	2.28	0.76		Calculated
42 Pipe - (135)	24.00	25.85	0.93	4.15	0.64	2.29	0.76		Calculated
43 Pipe - (136)	24.00	25.98	0.92	4.17	0.16	2.28	0.76		Calculated
44 Pipe - (137)	24.00	25.85	0.93	4.15	0.27	2.29	0.76		Calculated
45 Pipe - (138)	24.00	25.86	0.93	4.15	0.21	2.29	0.76		Calculated
46 Pipe - (139)	24.00	25.95	0.92	4.17	0.38	2.28	0.76		Calculated
47 Pipe - (140)	24.00	25.85	0.93	4.15	0.70	2.29	0.76		Calculated
48 Pipe - (141)	24.00	25.85	0.93	4.15	0.25	2.29	0.76		Calculated
49 Pipe - (142)	24.00	26.32	0.91	4.22	0.16	2.25	0.75		Calculated
50 Pipe - (143)	24.00	25.20	0.95	4.05	0.11	2.34	0.78		Calculated
51 Pipe - (143)-ExCMPtoHDPE	24.00	28.03	0.86	4.45	0.30	2.14	0.71		Calculated
52 Pipe - (144)	24.00	25.79	0.93	4.14	0.03	2.29	0.76		Calculated
53 Pipe - (145)	24.00	26.63	0.90	4.26	0.02	2.23	0.74		Calculated
54 Pipe - (146)	24.00	26.91	0.89	4.30	0.82	2.21	0.74		Calculated
55 Pipe - (147)	24.00	27.02	0.89	4.32	0.27	2.20	0.73		Calculated
56 Pipe - (148)	24.00	27.00	0.89	4.31	0.38	2.20	0.73		Calculated
57 Pipe - (150)	24.00	27.01	0.89	4.31	0.16	2.20	0.73		Calculated
58 Pipe - (151)	24.00	27.04	0.89	4.32	0.65	2.20	0.73		Calculated
59 Pipe - (152)	24.00	27.04	0.89	4.32	0.56	2.20	0.73		Calculated
60 Pipe - (153)	24.00	27.02	0.89	4.32	0.32	2.20	0.73		Calculated
61 Pipe - (154)	24.00	27.00	0.89	4.31	0.05	2.20	0.73		Calculated
62 Pipe - (155)	24.00	27.04	0.89	4.32	0.13	2.20	0.73		Calculated
63 Pipe - (156)	24.00	27.02	0.89	4.32	0.31	2.20	0.73		Calculated
64 Pipe - (157)	24.00	26.94	0.89	4.30	0.03	2.21	0.74		Calculated
65 Pipe - (158)-ExCMPtoHDPE	24.00	28.51	0.84	4.52	0.16	2.11	0.70		Calculated
66 Pipe - (159)	24.00	28.50	0.84	4.52	0.31	2.11	0.70		Calculated
67 Pipe - (160)	24.00	28.51	0.84	4.52	0.16	2.11	0.70		Calculated
68 Pipe - (161)	24.00	28.50	0.84	4.52	0.17	2.11	0.70		Calculated
69 Pipe - (162)	24.00	28.50	0.84	4.52	0.37	2.11	0.70		Calculated
70 Pipe - (163)	24.00	28.50	0.84	4.52	0.66	2.11	0.70		Calculated
71 Pipe - (164)	24.00	28.50	0.84	4.52	0.55	2.11	0.70		Calculated
72 Pipe - (165)	24.00	28.51	0.84	4.52	0.35	2.11	0.70		Calculated
73 Pipe - (166)	24.00	28.50	0.84	4.52	0.75	2.11	0.70		Calculated
74 Pipe - (167)	24.00	28.50	0.84	4.52	0.26	2.11	0.70		Calculated
75 Pipe - (168)	24.00	28.50	0.84	4.52	1.39	2.11	0.70		Calculated
76 Pipe - (169)	24.00	28.45	0.84	4.51	0.14	2.11	0.70		Calculated
77 Pipe - (170)	24.00	28.55	0.84	4.52	0.12	2.11	0.70		Calculated
78 Pipe - (171)	24.00	28.51	0.84	4.52	0.22	2.11	0.70		Calculated
79 Pipe - (172)	24.00	28.49	0.84	4.52	0.41	2.11	0.70		Calculated
80 Pipe - (173)	24.00	28.50	0.84	4.52	0.40	2.11	0.70		Calculated
81 Pipe - (174)	24.00	28.52	0.84	4.52	0.52	2.11	0.70		Calculated

# Pipe Results

SN Element ID	Peak Flow	Design Flow Capacity	Peak Flow / Design Flow Ratio	Peak Flow Velocity	Travel Time	Peak Flow Depth	Peak Flow Depth / Total Depth Ratio	Froude Number	Reported Condition
	(cfs)	(cfs)		(ft/sec)	(min)	(ft)			
82 Pipe - (175)	24.00	28.50	0.84	4.52	0.48	2.11	0.70		Calculated
83 Pipe - (176)	24.00	28.48	0.84	4.51	0.06	2.11	0.70		Calculated
84 Pipe - (177)	24.00	28.53	0.84	4.52	0.11	2.11	0.70		Calculated
85 Pipe - (178)	24.00	28.50	0.84	4.52	0.24	2.11	0.70		Calculated
86 Pipe - (179)	24.00	28.51	0.84	4.52	0.33	2.11	0.70		Calculated
87 Pipe - (180)	24.00	28.50	0.84	4.52	0.36	2.11	0.70		Calculated
88 Pipe - (181)	24.00	28.47	0.84	4.51	0.22	2.11	0.70		Calculated
89 Pipe - (182)	24.00	28.84	0.83	4.56	0.02	2.09	0.70		Calculated
90 Pipe - (183)	24.00	28.50	0.84	4.52	0.30	2.11	0.70		Calculated
91 Pipe - (184)	24.00	28.50	0.84	4.52	0.14	2.11	0.70		Calculated
92 Pipe - (185)	24.00	28.51	0.84	4.52	0.63	2.11	0.70		Calculated
93 Pipe - (186)	24.00	28.49	0.84	4.52	0.19	2.11	0.70		Calculated
94 Pipe - (189)	24.00	28.52	0.84	4.52	0.13	2.11	0.70		Calculated
95 Pipe - (190)	24.00	28.50	0.84	4.52	0.47	2.11	0.70		Calculated
96 Pipe - (191)	24.00	28.54	0.84	4.52	0.07	2.11	0.70		Calculated
97 Pipe - (192)	24.00	28.50	0.84	4.52	0.22	2.11	0.70		Calculated
98 Pipe - (193)	24.00	28.51	0.84	4.52	0.20	2.11	0.70		Calculated
99 Pipe - (194)	24.00	28.50	0.84	4.52	0.25	2.11	0.70		Calculated
100 Pipe - (195)	24.00	28.50	0.84	4.52	0.28	2.11	0.70		Calculated
101 Pipe - (196)	24.00	28.50	0.84	4.52	0.18	2.11	0.70		Calculated
102 Pipe - (197)	24.00	28.51	0.84	4.52	0.21	2.11	0.70		Calculated
103 Pipe - (198)	24.00	28.50	0.84	4.52	0.23	2.11	0.70		Calculated
104 Pipe - (199)	24.00	28.50	0.84	4.52	0.68	2.11	0.70		Calculated
105 Pipe - (200)	24.00	28.50	0.84	4.52	0.54	2.11	0.70		Calculated
106 Pipe - (201)	24.00	28.50	0.84	4.52	1.06	2.11	0.70		Calculated
107 Pipe - (202)	24.00	28.50	0.84	4.52	0.14	2.11	0.70		Calculated
108 Pipe - (202)-WoodtoHdpe	24.00	30.60	0.78	4.79	0.17	2.00	0.67		Calculated
109 Pipe - (203)	24.00	31.54	0.76	4.91	0.15	1.96	0.65		Calculated
110 Pipe - (204)	24.00	31.54	0.76	4.91	0.54	1.96	0.65		Calculated
111 Pipe - (205)	24.00	31.55	0.76	4.91	0.89	1.96	0.65		Calculated
112 Pipe - (206)	24.00	31.54	0.76	4.91	0.59	1.96	0.65		Calculated
113 Pipe - (207)	24.00	31.54	0.76	4.91	0.72	1.96	0.65		Calculated
114 Pipe - (208)	24.00	31.53	0.76	4.91	0.32	1.96	0.65		Calculated
115 Pipe - (209)	24.00	31.55	0.76	4.91	0.23	1.96	0.65		Calculated
116 Pipe - (210)	24.00	31.53	0.76	4.91	0.18	1.96	0.65		Calculated
117 Pipe - (211)	24.00	31.56	0.76	4.91	0.15	1.96	0.65		Calculated
118 Pipe - (213)	24.00	31.48	0.76	4.90	0.03	1.96	0.65		Calculated
119 Pipe - (214)	24.00	31.54	0.76	4.91	0.20	1.96	0.65		Calculated
120 Pipe - (215)	24.00	31.59	0.76	4.92	0.07	1.96	0.65		Calculated
121 Pipe - (216)	24.00	31.50	0.76	4.91	0.03	1.96	0.65		Calculated
122 Pipe - (217)	24.00	31.52	0.76	4.91	0.13	1.96	0.65		Calculated
123 Pipe - (218)	24.00	31.51	0.76	4.91	0.03	1.96	0.65		Calculated
124 Pipe - (219)	24.00	31.59	0.76	4.92	0.04	1.96	0.65		Calculated
125 Pipe - (220)	24.00	31.54	0.76	4.91	0.30	1.96	0.65		Calculated
126 Pipe - (221)	24.00	31.54	0.76	4.91	0.44	1.96	0.65		Calculated
127 Pipe - (222)	24.00	31.55	0.76	4.91	0.23	1.96	0.65		Calculated
128 Pipe - (223)	24.00	31.54	0.76	4.91	0.13	1.96	0.65		Calculated
129 Pipe - (224)	24.00	31.54	0.76	4.91	0.32	1.96	0.65		Calculated
130 Pipe - (225)	24.00	31.54	0.76	4.91	0.23	1.96	0.65		Calculated
131 Pipe - (226)	24.00	31.54	0.76	4.91	0.25	1.96	0.65		Calculated
132 Pipe - (227)	24.00	31.54	0.76	4.91	0.07	1.96	0.65		Calculated
133 Pipe - (228)	24.00	31.54	0.76	4.91	0.15	1.96	0.65		Calculated
134 Pipe - (229)	24.00	48.69	0.49	6.86	0.10	1.49	0.50		Calculated
135 Pipe - (230)	24.00	28.52	0.84	4.52	0.88	2.11	0.70		Calculated
136 Pipe - (231)	24.00	26.56	0.90	4.25	0.33	2.23	0.74		Calculated
137 Pipe - (232)	24.00	26.93	0.89	4.30	0.36	2.21	0.74		Calculated
138 Pipe - (233)	24.00	26.87	0.89	4.29	0.46	2.21	0.74		Calculated
139 Pipe - (234)	24.00	26.87	0.89	4.29	0.09	2.21	0.74		Calculated
140 Pipe - (235)	24.00	26.76	0.90	4.28	0.11	2.22	0.74		Calculated
141 Pipe - (236)	24.00	27.09	0.89	4.33	0.09	2.20	0.73		Calculated
142 Pipe - (237)	24.00	26.86	0.89	4.29	0.23	2.21	0.74		Calculated
143 Pipe - (238)	24.00	26.84	0.89	4.29	0.12	2.21	0.74		Calculated
144 Pipe - (239)	24.00	26.89	0.89	4.30	0.16	2.21	0.74		Calculated
145 Pipe - (240)	24.00	26.92	0.89	4.30	0.22	2.21	0.74		Calculated
146 Pipe - (241)	24.00	26.86	0.89	4.29	0.66	2.21	0.74		Calculated
147 Pipe - (242)	24.00	26.88	0.89	4.30	0.44	2.21	0.74		Calculated
148 Pipe - (243)	24.00	26.90	0.89	4.30	0.20	2.21	0.74		Calculated
149 Pipe - (244)	24.00	26.83	0.89	4.29	0.10	2.22	0.74		Calculated
150 Pipe - (245)	24.00	26.89	0.89	4.30	0.30	2.21	0.74		Calculated
151 Pipe - (246)	24.00	26.87	0.89	4.29	0.36	2.21	0.74		Calculated
152 Pipe - (248)	24.00	26.88	0.89	4.30	0.95	2.21	0.74		Calculated
153 Pipe - (251)	24.00	26.90	0.89	4.30	0.32	2.21	0.74		Calculated
154 Pipe - (252)	24.00	26.88	0.89	4.30	1.51	2.21	0.74		Calculated
155 Pipe - (253)	24.00	26.88	0.89	4.30	0.70	2.21	0.74		Calculated
156 Pipe - (254)	24.00	26.92	0.89	4.30	0.05	2.21	0.74		Calculated
157 Pipe - (255)	24.00	26.88	0.89	4.30	0.29	2.21	0.74		Calculated
158 Pipe - (256)	24.00	26.89	0.89	4.30	0.44	2.21	0.74		Calculated
159 Pipe - (257)	24.00	26.87	0.89	4.30	0.77	2.21	0.74		Calculated
160 Pipe - (258)	24.00	26.87	0.89	4.30	0.30	2.21	0.74		Calculated
161 Pipe - (259)	24.00	26.88	0.89	4.30	0.64	2.21	0.74		Calculated
162 Pipe - (260)	24.00	26.88	0.89	4.30	0.45	2.21	0.74		Calculated

## Pipe Results

SN Element ID	Peak Flow	Design Flow Capacity	Peak Flow/ Design Flow Ratio	Peak Flow Velocity	Travel Time	Peak Flow Depth	Peak Flow Depth/ Total Depth Ratio	Froude Number	Reported Condition
	(cfs)	(cfs)		(ft/sec)	(min)	(ft)			
163 Pipe - (261)	24.00	26.87	0.89	4.29	0.12	2.21	0.74		Calculated
164 Pipe - (262)	24.00	31.04	0.77	4.85	0.16	1.98	0.66		Calculated
165 Pipe - (263)	24.00	26.73	0.90	4.27	0.53	2.22	0.74		Calculated
166 Pipe - (264)	24.00	28.15	0.85	4.47	0.53	2.13	0.71		Calculated
167 Pipe - (265)	24.00	28.13	0.85	4.47	0.05	2.13	0.71		Calculated
168 Pipe - (267)	24.00	28.17	0.85	4.47	0.72	2.13	0.71		Calculated
169 Pipe - (268)	24.00	28.15	0.85	4.47	0.19	2.13	0.71		Calculated
170 Pipe - (269)	24.00	28.17	0.85	4.47	0.19	2.13	0.71		Calculated
171 Pipe - (270)	24.00	28.18	0.85	4.47	0.16	2.13	0.71		Calculated
172 Pipe - (271)	24.00	27.92	0.86	4.44	0.04	2.14	0.71		Calculated
173 Pipe - (272)	24.00	28.19	0.85	4.48	0.21	2.13	0.71		Calculated
174 Pipe - (273)	24.00	28.14	0.85	4.47	0.55	2.13	0.71		Calculated
175 Pipe - (274)	24.00	28.24	0.85	4.48	0.06	2.13	0.71		Calculated
176 Pipe - (275)	24.00	28.15	0.85	4.47	0.27	2.13	0.71		Calculated
177 Pipe - (276)	24.00	28.14	0.85	4.47	0.30	2.13	0.71		Calculated
178 Pipe - (277)	24.00	28.16	0.85	4.47	0.44	2.13	0.71		Calculated
179 Pipe - (277) (1)	24.00	28.16	0.85	4.47	0.37	2.13	0.71		Calculated
180 Pipe - (278)	24.00	28.15	0.85	4.47	0.43	2.13	0.71		Calculated
181 Pipe - (279)	24.00	28.16	0.85	4.47	0.52	2.13	0.71		Calculated
182 Pipe - (280)	24.00	28.14	0.85	4.47	0.45	2.13	0.71		Calculated
183 Pipe - (281)	24.00	28.17	0.85	4.47	0.62	2.13	0.71		Calculated
184 Pipe - (282)	24.00	28.16	0.85	4.47	0.60	2.13	0.71		Calculated
185 Pipe - (283)	24.00	28.13	0.85	4.47	0.26	2.13	0.71		Calculated
186 Pipe - (284)	24.00	28.17	0.85	4.47	0.49	2.13	0.71		Calculated
187 Pipe - (285)	24.00	28.15	0.85	4.47	0.58	2.13	0.71		Calculated
188 Pipe - (286)	24.00	28.15	0.85	4.47	0.61	2.13	0.71		Calculated
189 Pipe - (287)	24.00	28.17	0.85	4.47	0.27	2.13	0.71		Calculated
190 Pipe - (446)	24.00	26.89	0.89	4.30	0.41	2.21	0.74		Calculated
191 Pipe - (446) (1)	24.00	26.88	0.89	4.30	0.52	2.21	0.74		Calculated
192 Pipe - (79)	24.00	25.43	0.94	4.09	0.08	2.32	0.77		Calculated
193 Pipe - (80)	24.00	35.88	0.67	3.99	0.46	2.10	0.60		Calculated
194 Pipe - (81)	24.00	36.31	0.66	4.03	0.64	2.08	0.59		Calculated
195 Pipe - (82)	24.00	36.68	0.65	4.06	0.34	2.07	0.59		Calculated
196 Pipe - (83)	24.00	35.89	0.67	3.99	0.30	2.09	0.60		Calculated
197 Pipe - (84)	24.00	24.98	0.96	4.02	0.09	2.36	0.79		Calculated
198 Pipe - (85)	24.00	24.58	0.98	3.96	0.34	2.40	0.80		Calculated
199 Pipe - (86)	24.00	36.46	0.66	4.04	0.09	2.07	0.59		Calculated
200 Pipe - (87)	24.00	25.93	0.93	4.16	0.08	2.28	0.76		Calculated
201 Pipe - (88)	24.00	35.06	0.68	3.92	0.18	2.13	0.61		Calculated
202 Pipe - (89)	24.00	35.59	0.67	3.97	0.27	2.11	0.60		Calculated
203 Pipe - (90)	24.00	35.96	0.67	4.00	0.16	2.09	0.60		Calculated
204 Pipe - (91)	24.00	35.73	0.67	3.98	0.13	2.10	0.60		Calculated
205 Pipe - (92)	24.00	36.95	0.65	4.08	0.12	2.06	0.59		Calculated
206 Pipe - (93)-ExCMPtoHDPE	24.00	25.82	0.93	4.15	0.08	2.29	0.76		Calculated
207 Pipe - (94)	24.00	34.39	0.70	3.86	0.37	2.15	0.62		Calculated
208 Pipe - (95)	24.00	34.98	0.69	3.92	0.21	2.13	0.61		Calculated
209 Pipe - (96)	24.00	35.14	0.68	3.93	0.17	2.12	0.61		Calculated
210 Pipe - (97)	24.00	35.59	0.67	3.97	0.15	2.11	0.60		Calculated
211 Pipe - (98)	24.00	34.81	0.69	3.90	0.30	2.14	0.61		Calculated
212 Pipe - (99)	24.00	34.63	0.69	3.88	0.83	2.14	0.61		Calculated

## Project Description

File Name ..... Section3-0.013 (42inchSegment).SPF

## Number of Elements

	Qty
Rain Gages .....	0
Subbasins.....	0
Nodes.....	170
<i>Junctions</i> .....	169
<i>Outfalls</i> .....	1
<i>Flow Diversions</i> .....	0
<i>Inlets</i> .....	0
<i>Storage Nodes</i> .....	0
Links.....	169
<i>Channels</i> .....	0
<i>Pipes</i> .....	169
<i>Pumps</i> .....	0
<i>Orifices</i> .....	0
<i>Weirs</i> .....	0
<i>Outlets</i> .....	0
Pollutants .....	0
Land Uses .....	0



## Node Summary

SN	Element ID	Element Type	Invert Elevation	Ground/Rim (Max) Elevation	Initial Water Elevation	Surcharge Elevation	Peak Inflow	Max HGL Elevation Attained
			(ft)	(ft)	(ft)	(ft)	(cfs)	(ft)
1	Structure - (298)-WoodleafSiphonOutlet	Junction	3116.56	3119.82	3116.56	3119.82	24.00	3118.67
2	Structure - (299)	Junction	3116.48	3119.75	3116.49	3119.75	24.00	3118.81
3	Structure - (300)	Junction	3116.45	3119.45	3116.45	3119.46	24.00	3118.78
4	Structure - (301)	Junction	3116.43	3119.43	3116.43	3119.44	24.00	3118.65
5	Structure - (302)	Junction	3116.39	3119.39	3116.41	3119.65	24.00	3118.61
6	Structure - (303)	Junction	3116.34	3119.34	3116.34	3119.35	24.00	3118.43
7	Structure - (304)	Junction	3116.27	3119.52	3116.27	3119.52	24.00	3118.58
8	Structure - (305)	Junction	3116.19	3119.44	3116.19	3119.44	24.00	3118.50
9	Structure - (306)	Junction	3116.12	3119.38	3116.12	3119.38	24.00	3118.48
10	Structure - (307)	Junction	3116.00	3119.26	3116.00	3119.26	24.00	3118.36
11	Structure - (308)	Junction	3115.90	3119.16	3115.90	3119.16	24.00	3118.25
12	Structure - (309)	Junction	3115.72	3118.97	3115.72	3118.97	24.00	3118.07
13	Structure - (310)AP	Junction	3115.50	3119.43	3115.50	3119.43	24.00	3117.83
14	Structure - (311)	Junction	3115.10	3118.36	3115.10	3118.36	24.00	3117.46
15	Structure - (312)	Junction	3114.95	3118.20	3114.95	3118.20	24.00	3117.31
16	Structure - (313)	Junction	3114.80	3118.06	3114.80	3118.06	24.00	3117.09
17	Structure - (314)	Junction	3114.74	3117.99	3114.74	3117.99	24.00	3116.93
18	Structure - (315)Turn Out - Box-4	Junction	3114.71	3119.31	3114.71	3119.31	24.00	3116.97
19	Structure - (316)	Junction	3114.67	3117.92	3114.67	3117.92	24.00	3116.94
20	Structure - (317)	Junction	3114.53	3117.79	3114.53	3117.79	24.00	3116.91
21	Structure - (318)	Junction	3114.47	3117.72	3114.47	3117.72	24.00	3116.85
22	Structure - (319)	Junction	3114.32	3117.57	3114.32	3117.57	24.00	3116.65
23	Structure - (320)	Junction	3114.22	3117.48	3114.22	3117.48	24.00	3116.57
24	Structure - (320)AP	Junction	3114.07	3118.00	3114.07	3118.00	24.00	3116.42
25	Structure - (321)	Junction	3113.97	3117.22	3113.97	3117.22	24.00	3116.34
26	Structure - (322)	Junction	3113.92	3117.17	3113.92	3117.17	24.00	3116.29
27	Structure - (323)	Junction	3113.88	3117.13	3113.88	3117.13	24.00	3116.24
28	Structure - (324)	Junction	3113.67	3116.93	3113.67	3116.93	24.00	3115.95
29	Structure - (325)	Junction	3113.65	3116.90	3113.65	3116.90	24.00	3116.04
30	Structure - (326)	Junction	3113.58	3116.58	3113.58	3116.58	24.00	3115.97
31	Structure - (327)	Junction	3113.54	3116.79	3113.54	3116.79	24.00	3115.83
32	Structure - (328)	Junction	3113.46	3116.71	3113.46	3116.71	24.00	3115.83
33	Structure - (329)	Junction	3113.28	3116.53	3113.28	3116.53	24.00	3115.65
34	Structure - (330)	Junction	3113.26	3116.26	3113.26	3116.26	24.00	3115.62
35	Structure - (331)	Junction	3113.23	3116.47	3113.23	3116.47	24.00	3115.59
36	Structure - (333)	Junction	3113.21	3116.45	3113.21	3116.45	24.00	3115.53
37	Structure - (334)	Junction	3113.14	3116.14	3113.14	3116.14	24.00	3115.27
38	Structure - (335)	Junction	3113.00	3115.99	3113.00	3115.99	24.00	3115.16
39	Structure - (337)	Junction	3112.77	3115.77	3112.77	3115.77	24.00	3114.93
40	Structure - (338)	Junction	3112.72	3115.98	3112.72	3115.98	24.00	3114.85
41	Structure - (339)AP	Junction	3112.69	3116.29	3112.69	3116.29	24.00	3114.82
42	Structure - (340)	Junction	3112.60	3115.60	3112.60	3115.60	24.00	3114.87
43	Structure - (341)	Junction	3112.57	3115.83	3112.57	3115.83	24.00	3114.89
44	Structure - (342)	Junction	3112.41	3115.66	3112.41	3115.66	24.00	3114.76
45	Structure - (343)	Junction	3112.40	3115.66	3112.40	3115.66	24.00	3114.79
46	Structure - (345)	Junction	3112.28	3115.54	3112.28	3115.54	24.00	3114.67
47	Structure - (346)	Junction	3112.26	3115.52	3112.26	3115.52	24.00	3114.26
48	Structure - (347)	Junction	3112.15	3115.41	3112.15	3115.41	24.00	3114.15
49	Structure - (352)	Junction	3111.39	3114.65	3111.39	3114.65	24.00	3113.39
50	Structure - (353)	Junction	3111.34	3114.60	3111.34	3114.60	24.00	3113.34
51	Structure - (354)	Junction	3111.28	3114.53	3111.28	3114.53	24.00	3113.28
52	Structure - (355)	Junction	3111.23	3114.48	3111.23	3114.48	24.00	3113.23
53	Structure - (356)	Junction	3111.02	3114.27	3111.02	3114.27	24.00	3113.01
54	Structure - (357)AP	Junction	3110.66	3114.59	3110.66	3114.59	24.00	3112.72
55	Structure - (361)	Junction	3109.73	3112.98	3109.73	3112.98	24.00	3111.90
56	Structure - (362)	Junction	3109.71	3112.97	3109.71	3112.97	24.00	3111.88
57	Structure - (363)	Junction	3109.54	3112.79	3109.54	3112.79	24.00	3111.70
58	Structure - (364)	Junction	3109.47	3112.72	3109.47	3112.72	24.00	3111.63
59	Structure - (365)	Junction	3109.44	3112.70	3109.44	3112.70	24.00	3111.61
60	Structure - (366)	Junction	3109.38	3112.64	3109.38	3112.64	24.00	3111.55
61	Structure - (367)	Junction	3109.33	3112.59	3109.33	3112.59	24.00	3111.50
62	Structure - (368)	Junction	3109.31	3112.56	3109.31	3112.56	24.00	3111.57
63	Structure - (369)AP	Junction	3109.12	3113.05	3109.12	3113.05	24.00	3111.39
64	Structure - (370)	Junction	3108.96	3112.22	3108.96	3112.22	24.00	3111.12
65	Structure - (372)	Junction	3108.83	3112.09	3108.83	3112.09	24.00	3111.00
66	Structure - (373)	Junction	3108.64	3111.89	3108.64	3111.89	24.00	3110.80
67	Structure - (374)	Junction	3108.53	3111.79	3108.53	3111.79	24.00	3110.69
68	Structure - (375)	Junction	3108.24	3111.50	3108.24	3111.50	24.00	3110.17
69	Structure - (376)	Junction	3108.04	3111.29	3108.04	3111.29	24.00	3109.97
70	Structure - (377)	Junction	3107.84	3111.10	3107.84	3111.10	24.00	3109.77
71	Structure - (378)	Junction	3107.67	3110.93	3107.67	3110.93	24.00	3109.60
72	Structure - (379)	Junction	3107.61	3110.87	3107.61	3110.87	24.00	3109.54
73	Structure - (380)	Junction	3107.45	3110.71	3107.45	3110.71	24.00	3109.38
74	Structure - (381)	Junction	3107.29	3110.54	3107.29	3110.54	24.00	3109.22
75	Structure - (382)	Junction	3107.04	3110.30	3107.04	3110.30	24.00	3109.30
76	Structure - (382)AP	Junction	3107.00	3110.93	3107.00	3110.93	24.00	3109.26
77	Structure - (383)	Junction	3106.85	3110.11	3106.85	3110.11	24.00	3109.15
78	Structure - (384)	Junction	3106.57	3109.82	3106.57	3109.82	24.00	3108.87
79	Structure - (385)	Junction	3106.47	3109.72	3106.47	3109.72	24.00	3108.76
80	Structure - (386)	Junction	3106.30	3109.55	3106.30	3109.55	24.00	3108.59
81	Structure - (387)	Junction	3106.07	3109.32	3106.07	3109.32	24.00	3108.34

## Node Summary

SN	Element ID	Element Type	Invert Elevation	Ground/Rim (Max) Elevation	Initial Water Elevation	Surcharge Elevation	Peak Inflow	Max HGL Elevation Attained
			(ft)	(ft)	(ft)	(ft)	(cfs)	(ft)
82	Structure - (388)	Junction	3105.99	3109.25	3105.99	3109.25	24.00	3108.32
83	Structure - (389)	Junction	3105.88	3109.13	3105.88	3109.13	24.00	3108.21
84	Structure - (390)	Junction	3105.80	3109.05	3105.80	3109.05	24.00	3108.07
85	Structure - (391)	Junction	3105.59	3108.85	3105.59	3108.85	24.00	3107.85
86	Structure - (391)AP	Junction	3105.56	3109.52	3105.56	3109.52	24.00	3107.82
87	Structure - (392)	Junction	3105.36	3108.62	3105.36	3108.62	24.00	3107.71
88	Structure - (393)	Junction	3105.29	3108.54	3105.29	3108.54	24.00	3107.64
89	Structure - (394)	Junction	3105.26	3108.52	3105.26	3108.52	24.00	3107.56
90	Structure - (395)	Junction	3105.22	3108.48	3105.22	3108.48	24.00	3107.57
91	Structure - (396)	Junction	3105.15	3108.40	3105.15	3108.40	24.00	3107.50
92	Structure - (397)	Junction	3105.09	3108.09	3105.09	3108.09	24.00	3107.42
93	Structure - (398)	Junction	3105.07	3108.32	3105.07	3108.32	24.00	3107.39
94	Structure - (399)	Junction	3105.05	3108.30	3105.05	3108.30	24.00	3107.37
95	Structure - (400)	Junction	3104.97	3108.23	3104.97	3108.23	24.00	3107.24
96	Structure - (401)	Junction	3104.43	3107.69	3104.43	3107.69	24.00	3106.71
97	Structure - (401)AP	Junction	3104.04	3107.96	3104.04	3107.96	24.00	3106.32
98	Structure - (402)	Junction	3103.98	3107.24	3103.98	3107.24	24.00	3106.26
99	Structure - (403)	Junction	3103.93	3107.18	3103.93	3107.18	24.00	3105.84
100	Structure - (404)	Junction	3103.82	3107.08	3103.82	3107.08	24.00	3105.67
101	Structure - (405)	Junction	3103.17	3106.43	3103.17	3106.43	24.00	3105.05
102	Structure - (406)	Junction	3103.13	3106.39	3103.13	3106.39	24.00	3105.01
103	Structure - (407)	Junction	3103.04	3106.29	3103.04	3106.29	24.00	3104.91
104	Structure - (408)	Junction	3102.91	3106.16	3102.91	3106.16	24.00	3104.76
105	Structure - (409)	Junction	3102.72	3105.97	3102.72	3105.97	24.00	3104.57
106	Structure - (409)TO	Junction	3102.47	3107.23	3102.47	3107.23	24.00	3104.43
107	Structure - (410)	Junction	3102.42	3105.68	3102.42	3105.68	24.00	3104.46
108	Structure - (411)	Junction	3102.23	3105.49	3102.23	3105.49	24.00	3104.28
109	Structure - (412)	Junction	3102.17	3105.43	3102.17	3105.43	24.00	3104.19
110	Structure - (413)	Junction	3101.68	3104.93	3101.68	3104.93	24.00	3103.70
111	Structure - (414)	Junction	3101.47	3104.72	3101.47	3104.72	24.00	3103.49
112	Structure - (415)	Junction	3101.33	3104.59	3101.33	3104.59	24.00	3103.35
113	Structure - (416)	Junction	3101.04	3104.29	3101.04	3104.29	24.00	3103.06
114	Structure - (417)	Junction	3100.65	3103.91	3100.65	3103.91	24.00	3102.67
115	Structure - (418)	Junction	3100.32	3103.58	3100.32	3103.58	24.00	3102.34
116	Structure - (419)	Junction	3099.99	3103.25	3099.99	3103.25	24.00	3102.01
117	Structure - (420)	Junction	3099.84	3103.09	3099.84	3103.09	24.00	3101.86
118	Structure - (420)AP	Junction	3099.62	3103.55	3099.62	3103.55	24.00	3101.73
119	Structure - (421)	Junction	3099.48	3102.74	3099.48	3102.74	24.00	3101.58
120	Structure - (422)	Junction	3099.36	3102.62	3099.36	3102.62	24.00	3101.51
121	Structure - (423)	Junction	3099.27	3102.52	3099.27	3102.52	24.00	3101.42
122	Structure - (424)	Junction	3099.18	3102.44	3099.18	3102.44	24.00	3101.29
123	Structure - (425)	Junction	3098.75	3102.01	3098.75	3102.01	24.00	3100.86
124	Structure - (426)	Junction	3098.45	3101.70	3098.45	3101.70	24.00	3100.56
125	Structure - (427)	Junction	3098.42	3101.68	3098.42	3101.68	24.00	3100.54
126	Structure - (428)	Junction	3098.37	3101.62	3098.37	3101.62	24.00	3100.48
127	Structure - (429)	Junction	3098.34	3101.60	3098.34	3101.60	24.00	3100.46
128	Structure - (430)	Junction	3098.27	3101.52	3098.27	3101.52	24.00	3100.38
129	Structure - (431)	Junction	3098.12	3101.38	3098.12	3101.38	24.00	3100.30
130	Structure - (432)	Junction	3097.93	3101.19	3097.93	3101.19	24.00	3100.11
131	Structure - (433)	Junction	3097.90	3101.16	3097.90	3101.16	24.00	3099.96
132	Structure - (434)AP	Junction	3097.68	3102.20	3097.68	3102.20	24.00	3099.77
133	Structure - (435)	Junction	3097.51	3100.77	3097.51	3100.77	24.00	3099.64
134	Structure - (436)	Junction	3097.34	3100.60	3097.34	3100.60	24.00	3099.47
135	Structure - (437)	Junction	3097.27	3100.53	3097.27	3100.53	24.00	3099.38
136	Structure - (438)	Junction	3097.15	3100.41	3097.15	3100.41	24.00	3099.30
137	Structure - (439)	Junction	3097.01	3100.26	3097.01	3100.26	24.00	3099.16
138	Structure - (440)	Junction	3096.75	3100.00	3096.75	3100.00	24.00	3098.86
139	Structure - (441)	Junction	3096.55	3099.81	3096.55	3099.81	24.00	3098.64
140	Structure - (442)	Junction	3096.40	3099.66	3096.40	3099.66	24.00	3098.52
141	Structure - (443)	Junction	3096.30	3099.56	3096.30	3099.56	24.00	3098.46
142	Structure - (444)	Junction	3096.11	3099.11	3096.11	3099.11	24.00	3098.27
143	Structure - (445)	Junction	3095.97	3099.22	3095.97	3099.22	24.00	3098.09
144	Structure - (447)	Junction	3095.90	3099.16	3095.90	3099.16	24.00	3098.02
145	Structure - (447)AP	Junction	3095.78	3099.71	3095.78	3099.71	24.00	3097.79
146	Structure - (448)	Junction	3095.51	3098.77	3095.51	3098.77	24.00	3097.45
147	Structure - (449)	Junction	3095.25	3098.50	3095.25	3098.50	24.00	3097.19
148	Structure - (450)	Junction	3094.87	3098.12	3094.87	3098.12	24.00	3096.80
149	Structure - (451)	Junction	3094.82	3098.08	3094.82	3098.08	24.00	3096.78
150	Structure - (452)	Junction	3094.70	3097.96	3094.70	3097.96	24.00	3096.66
151	Structure - (453)	Junction	3094.65	3097.91	3094.65	3097.91	24.00	3096.61
152	Structure - (454)	Junction	3094.49	3097.74	3094.49	3097.74	24.00	3096.45
153	Structure - (455)	Junction	3094.07	3097.33	3094.07	3097.33	24.00	3096.03
154	Structure - (455)AP	Junction	3093.91	3097.84	3093.91	3097.84	24.00	3095.87
155	Structure - (456)	Junction	3093.34	3096.59	3093.34	3096.59	24.00	3095.41
156	Structure - (457)	Junction	3093.17	3096.43	3093.17	3096.43	24.00	3095.24
157	Structure - (458)	Junction	3092.81	3096.07	3092.81	3096.07	24.00	3094.77
158	Structure - (597)	Junction	3112.14	3115.40	3112.14	3115.40	24.00	3114.14
159	Structure - (598)	Junction	3112.00	3115.25	3112.00	3115.25	24.00	3114.00
160	Structure - (599)	Junction	3111.80	3115.05	3111.80	3115.05	24.00	3113.81
161	Structure - (600)	Junction	3111.80	3115.06	3111.80	3115.06	24.00	3113.82
162	Structure - (601)	Junction	3110.48	3113.74	3110.48	3113.74	24.00	3112.56

## Node Summary

SN Element ID	Element Type	Invert Elevation	Ground/Rim (Max) Elevation	Initial Water Elevation	Surcharge Elevation	Peak Inflow	Max HGL Elevation Attained
		(ft)	(ft)	(ft)	(ft)	(cfs)	(ft)
163 Structure - (602)	Junction	3110.34	3113.60	3110.34	3113.60	24.00	3112.42
164 Structure - (603)	Junction	3110.32	3113.58	3110.32	3113.58	24.00	3112.22
165 Structure - (604)	Junction	3110.22	3113.48	3110.22	3113.48	24.00	3112.05
166 Structure - (605)	Junction	3109.91	3113.17	3109.91	3113.17	24.00	3111.74
167 Structure - (606)	Junction	3109.86	3113.12	3109.86	3113.12	24.00	3111.74
168 Structure - (607)	Junction	3109.81	3113.07	3109.81	3113.07	24.00	3111.96
169 Structure - (608)	Junction	3109.80	3113.06	3109.80	3113.06	24.00	3111.95
170 Out-1Pipe - (CascadeFalls)	Outfall	3092.75				24.00	3094.71

# 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)	Design Flow Capacity (cfs)	Peak Flow Velocity (ft/sec)	Peak Flow Depth (ft)	Reported Condition
1	Pipe	Structure - (289)	WoodleafSiphonOutlet Structure - (299)	64.66	3116.56	3116.48	0.1200	42.000	0.0130	24.00	35.55	3.96	2.11	Calculated
2	Pipe	Structure - (299)	Structure - (300)	20.80	3116.48	3116.45	0.1400	36.000	0.0130	24.00	25.33	4.07	2.33	Calculated
3	Pipe	Structure - (300)	Structure - (301)	9.45	3116.45	3116.43	0.2100	36.000	0.0130	24.00	30.68	4.80	2.00	Calculated
4	Pipe	Structure - (301)	Structure - (302)	24.87	3116.43	3116.39	0.1600	36.000	0.0130	24.00	26.75	4.28	2.22	Calculated
5	Pipe	Structure - (302)	Structure - (303)	39.24	3116.39	3116.34	0.1300	42.000	0.0130	24.00	35.91	4.00	2.09	Calculated
6	Pipe	Structure - (303)	Structure - (304)	52.28	3116.34	3116.27	0.1300	42.000	0.0130	24.00	36.81	4.07	2.06	Calculated
7	Pipe	Structure - (304)	Structure - (305)	54.61	3116.27	3116.19	0.1500	36.000	0.0130	24.00	25.53	4.10	2.31	Calculated
8	Pipe	Structure - (305)	Structure - (306)	41.97	3116.19	3116.12	0.1700	36.000	0.0130	24.00	27.24	4.35	2.19	Calculated
9	Pipe	Structure - (306)	Structure - (307)	85.32	3116.12	3116.00	0.1400	36.000	0.0130	24.00	25.01	4.03	2.36	Calculated
10	Pipe	Structure - (307)	Structure - (308)	68.75	3116.00	3115.90	0.1500	36.000	0.0130	24.00	25.44	4.09	2.32	Calculated
11	Pipe	Structure - (308)	Structure - (309)	126.57	3115.90	3115.72	0.1400	36.000	0.0130	24.00	25.15	4.05	2.35	Calculated
12	Pipe	Structure - (309)	Structure - (310)AP	146.10	3115.72	3115.50	0.1500	36.000	0.0130	24.00	25.88	4.16	2.28	Calculated
13	Pipe	Structure - (310)AP	Structure - (311)	276.86	3115.50	3115.10	0.1400	36.000	0.0130	24.00	25.35	4.08	2.33	Calculated
14	Pipe	Structure - (311)	Structure - (312)	106.58	3115.10	3114.95	0.1400	36.000	0.0130	24.00	25.02	4.03	2.36	Calculated
15	Pipe	Structure - (312)	Structure - (313)	99.85	3114.95	3114.80	0.1500	36.000	0.0130	24.00	25.85	4.15	2.29	Calculated
16	Pipe	Structure - (313)	Structure - (314)	49.29	3114.80	3114.74	0.1200	42.000	0.0130	24.00	35.10	3.93	2.13	Calculated
17	Pipe	Structure - (314)	Structure - (315)Turn Out - Box-4	18.11	3114.74	3114.71	0.1700	36.000	0.0130	24.00	27.15	4.33	2.19	Calculated
18	Pipe	Structure - (315)Turn Out - Box-4	Structure - (316)	26.00	3114.71	3114.67	0.1500	36.000	0.0130	24.00	26.16	4.20	2.26	Calculated
19	Pipe	Structure - (316)	Structure - (317)	92.07	3114.67	3114.53	0.1500	36.000	0.0130	24.00	26.01	4.17	2.27	Calculated
20	Pipe	Structure - (317)	Structure - (318)	43.64	3114.53	3114.47	0.1400	36.000	0.0130	24.00	24.73	3.98	2.38	Calculated
21	Pipe	Structure - (318)	Structure - (319)	104.45	3114.47	3114.32	0.1400	36.000	0.0130	24.00	25.28	4.07	2.33	Calculated
22	Pipe	Structure - (319)	Structure - (320)	66.88	3114.32	3114.22	0.1500	36.000	0.0130	24.00	25.79	4.14	2.29	Calculated
23	Pipe	Structure - (320)	Structure - (320)AP	105.90	3114.22	3114.07	0.1400	36.000	0.0130	24.00	25.10	4.04	2.35	Calculated
24	Pipe	Structure - (320)AP	Structure - (321)	67.15	3114.07	3113.97	0.1500	36.000	0.0130	24.00	25.74	4.13	2.30	Calculated
25	Pipe	Structure - (321)	Structure - (322)	35.77	3113.97	3113.92	0.1400	36.000	0.0130	24.00	24.94	4.02	2.37	Calculated
26	Pipe	Structure - (322)	Structure - (323)	28.54	3113.92	3113.88	0.1400	36.000	0.0130	24.00	24.97	4.02	2.36	Calculated
27	Pipe	Structure - (323)	Structure - (324)	138.98	3113.88	3113.67	0.1500	36.000	0.0130	24.00	25.93	4.16	2.28	Calculated
28	Pipe	Structure - (324)	Structure - (325)	17.18	3113.67	3113.65	0.1200	42.000	0.0130	24.00	34.33	3.86	2.16	Calculated
29	Pipe	Structure - (325)	Structure - (326)	51.12	3113.65	3113.58	0.1400	36.000	0.0130	24.00	24.68	3.98	2.39	Calculated
30	Pipe	Structure - (326)	Structure - (327)	26.34	3113.58	3113.54	0.1500	36.000	0.0130	24.00	25.99	4.17	2.28	Calculated
31	Pipe	Structure - (327)	Structure - (328)	53.54	3113.54	3113.46	0.1500	36.000	0.0130	24.00	25.78	4.14	2.29	Calculated
32	Pipe	Structure - (328)	Structure - (329)	129.76	3113.46	3113.28	0.1400	36.000	0.0130	24.00	24.84	4.00	2.37	Calculated
33	Pipe	Structure - (329)	Structure - (330)	13.67	3113.28	3113.26	0.1500	36.000	0.0130	24.00	25.51	4.10	2.31	Calculated
34	Pipe	Structure - (330)	Structure - (331)	21.38	3113.26	3113.23	0.1400	36.000	0.0130	24.00	24.99	4.02	2.36	Calculated
35	Pipe	Structure - (331)	Structure - (333)	13.67	3113.23	3113.21	0.1500	36.000	0.0130	24.00	25.51	4.10	2.32	Calculated
36	Pipe	Structure - (333)	Structure - (334)	53.05	3113.21	3113.14	0.1300	42.000	0.0130	24.00	36.55	4.05	2.07	Calculated
37	Pipe	Structure - (334)	Structure - (335)	115.56	3113.14	3113.00	0.1200	42.000	0.0130	24.00	35.02	3.92	2.13	Calculated
38	Pipe	Structure - (335)	Structure - (337)	199.45	3113.00	3112.77	0.1200	42.000	0.0130	24.00	34.17	3.84	2.16	Calculated
39	Pipe	Structure - (337)	Structure - (338)	40.39	3112.77	3112.72	0.1200	42.000	0.0130	24.00	35.40	3.95	2.11	Calculated
40	Pipe	Structure - (338)	Structure - (339)AP	16.89	3112.72	3112.69	0.1800	36.000	0.0130	24.00	28.11	4.46	2.13	Calculated
41	Pipe	Structure - (339)AP	Structure - (340)	70.01	3112.69	3112.60	0.1300	42.000	0.0130	24.00	36.07	4.01	2.09	Calculated
42	Pipe	Structure - (340)	Structure - (341)	19.64	3112.60	3112.57	0.1500	36.000	0.0130	24.00	26.07	4.18	2.27	Calculated
43	Pipe	Structure - (341)	Structure - (342)	112.40	3112.57	3112.41	0.1500	36.000	0.0130	24.00	25.42	4.09	2.32	Calculated
44	Pipe	Structure - (342)	Structure - (343)	4.83	3112.41	3112.40	0.1400	36.000	0.0130	24.00	25.01	4.03	2.36	Calculated
45	Pipe	Structure - (343)	Structure - (345)	88.06	3112.40	3112.28	0.1400	36.000	0.0130	24.00	24.62	3.97	2.39	Calculated
46	Pipe	Structure - (345)	Structure - (346)	8.85	3112.28	3112.26	0.2300	36.000	0.0130	24.00	31.65	4.93	1.95	Calculated
47	Pipe	Structure - (346)	Structure - (347)	51.99	3112.26	3112.15	0.2100	36.000	0.0130	24.00	30.65	4.80	2.00	Calculated
48	Pipe	Structure - (347)	Structure - (597)	5.05	3112.15	3112.14	0.2100	36.000	0.0130	24.00	30.58	4.79	2.00	Calculated
49	Pipe	Structure - (597)	Structure - (598)	67.52	3112.14	3112.00	0.2100	36.000	0.0130	24.00	30.65	4.80	2.00	Calculated
50	Pipe	Structure - (598)	Structure - (600)	91.69	3112.00	3111.80	0.2100	36.000	0.0130	24.00	30.64	4.80	2.00	Calculated
51	Pipe	Structure - (600)	Structure - (599)	2.49	3111.80	3111.80	0.2100	36.000	0.0130	24.00	30.29	4.75	2.02	Calculated
52	Pipe	Structure - (599)	Structure - (352)	192.72	3111.80	3111.39	0.2100	36.000	0.0130	24.00	30.65	4.80	2.00	Calculated
53	Pipe	Structure - (352)	Structure - (353)	22.82	3111.39	3111.34	0.2100	36.000	0.0130	24.00	30.64	4.80	2.00	Calculated
54	Pipe	Structure - (353)	Structure - (354)	32.15	3111.34	3111.28	0.2100	36.000	0.0130	24.00	30.69	4.80	2.00	Calculated
55	Pipe	Structure - (354)	Structure - (355)	23.80	3111.28	3111.23	0.2100	36.000	0.0130	24.00	30.59	4.79	2.00	Calculated
56	Pipe	Structure - (355)	Structure - (356)	99.48	3111.23	3111.02	0.2100	36.000	0.0130	24.00	30.65	4.80	2.00	Calculated
57	Pipe	Structure - (356)	Structure - (357)AP	168.35	3111.02	3110.66	0.2100	36.000	0.0130	24.00	30.64	4.80	2.00	Calculated
58	Pipe	Structure - (357)AP	Structure - (601)	134.68	3110.66	3110.48	0.1300	42.000	0.0130	24.00	36.78	4.07	2.06	Calculated



# 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)	Design Flow Capacity (cfs)	Peak Flow Velocity (ft/sec)	Peak Flow Reported Depth (ft)	Condition
117 Pipe - (396)	Pipe	Structure - (409)	Structure - (409)TO	91.47	3102.72	3102.47	0.2700	36.000	0.0130	24.00	34.89	5.32	1.83	Calculated
118 Pipe - (396) (1)	Pipe	Structure - (409)TO	Structure - (410)	22.25	3102.47	3102.42	0.2200	36.000	0.0130	24.00	31.51	4.91	1.96	Calculated
119 Pipe - (397)	Pipe	Structure - (410)	Structure - (411)	93.62	3102.42	3102.23	0.2000	36.000	0.0130	24.00	29.72	4.68	2.04	Calculated
120 Pipe - (398)	Pipe	Structure - (411)	Structure - (412)	29.75	3102.23	3102.17	0.2100	36.000	0.0130	24.00	30.22	4.74	2.02	Calculated
121 Pipe - (399)	Pipe	Structure - (412)	Structure - (413)	242.85	3102.17	3101.68	0.2000	36.000	0.0130	24.00	30.18	4.74	2.02	Calculated
122 Pipe - (400)	Pipe	Structure - (413)	Structure - (414)	103.02	3101.68	3101.47	0.2000	36.000	0.0130	24.00	30.14	4.73	2.02	Calculated
123 Pipe - (401)	Pipe	Structure - (414)	Structure - (415)	65.85	3101.47	3101.33	0.2000	36.000	0.0130	24.00	30.14	4.73	2.02	Calculated
124 Pipe - (402)	Pipe	Structure - (415)	Structure - (416)	143.47	3101.33	3101.04	0.2000	36.000	0.0130	24.00	30.18	4.74	2.02	Calculated
125 Pipe - (403)	Pipe	Structure - (416)	Structure - (417)	188.81	3101.04	3100.65	0.2000	36.000	0.0130	24.00	30.17	4.74	2.02	Calculated
126 Pipe - (404)	Pipe	Structure - (417)	Structure - (418)	160.72	3100.65	3100.32	0.2000	36.000	0.0130	24.00	30.16	4.74	2.02	Calculated
127 Pipe - (405)	Pipe	Structure - (418)	Structure - (419)	160.80	3100.32	3099.99	0.2000	36.000	0.0130	24.00	30.18	4.74	2.02	Calculated
128 Pipe - (406)	Pipe	Structure - (419)	Structure - (420)	76.37	3099.99	3099.84	0.2000	36.000	0.0130	24.00	30.17	4.74	2.02	Calculated
129 Pipe - (407)	Pipe	Structure - (420)	Structure - (420)AP	105.30	3099.84	3099.62	0.2000	36.000	0.0130	24.00	30.13	4.73	2.02	Calculated
130 Pipe - (407) (1)	Pipe	Structure - (420)AP	Structure - (421)	77.31	3099.62	3099.48	0.1800	36.000	0.0130	24.00	28.60	4.53	2.10	Calculated
131 Pipe - (408)	Pipe	Structure - (421)	Structure - (422)	65.13	3099.48	3099.36	0.1800	36.000	0.0130	24.00	28.63	4.53	2.10	Calculated
132 Pipe - (409)	Pipe	Structure - (422)	Structure - (423)	51.84	3099.36	3099.27	0.1700	36.000	0.0130	24.00	27.79	4.42	2.15	Calculated
133 Pipe - (410)	Pipe	Structure - (423)	Structure - (424)	47.78	3099.27	3099.18	0.1900	36.000	0.0130	24.00	28.95	4.58	2.09	Calculated
134 Pipe - (411)	Pipe	Structure - (424)	Structure - (425)	234.09	3099.18	3098.75	0.1800	36.000	0.0130	24.00	28.50	4.52	2.11	Calculated
135 Pipe - (412)	Pipe	Structure - (425)	Structure - (426)	167.96	3098.75	3098.45	0.1800	36.000	0.0130	24.00	28.51	4.52	2.11	Calculated
136 Pipe - (413)	Pipe	Structure - (426)	Structure - (427)	12.21	3098.45	3098.42	0.1800	36.000	0.0130	24.00	28.45	4.51	2.11	Calculated
137 Pipe - (414)	Pipe	Structure - (427)	Structure - (428)	30.34	3098.42	3098.37	0.1800	36.000	0.0130	24.00	28.47	4.51	2.11	Calculated
138 Pipe - (415)	Pipe	Structure - (428)	Structure - (429)	13.70	3098.37	3098.34	0.1800	36.000	0.0130	24.00	28.64	4.54	2.10	Calculated
139 Pipe - (416)	Pipe	Structure - (429)	Structure - (430)	41.46	3098.34	3098.27	0.1800	36.000	0.0130	24.00	28.47	4.51	2.11	Calculated
140 Pipe - (417)	Pipe	Structure - (430)	Structure - (431)	78.41	3098.27	3098.12	0.1800	36.000	0.0130	24.00	28.51	4.52	2.11	Calculated
141 Pipe - (418)	Pipe	Structure - (431)	Structure - (432)	114.69	3098.12	3097.93	0.1700	36.000	0.0130	24.00	27.41	4.37	2.18	Calculated
142 Pipe - (419)	Pipe	Structure - (432)	Structure - (433)	15.35	3097.93	3097.90	0.2000	36.000	0.0130	24.00	29.46	4.64	2.06	Calculated
143 Pipe - (420)	Pipe	Structure - (433)	Structure - (434)AP	113.09	3097.90	3097.68	0.1900	36.000	0.0130	24.00	29.45	4.64	2.06	Calculated
144 Pipe - (421)	Pipe	Structure - (434)AP	Structure - (435)	90.83	3097.68	3097.51	0.1900	36.000	0.0130	24.00	28.86	4.56	2.09	Calculated
145 Pipe - (422)	Pipe	Structure - (435)	Structure - (436)	94.96	3097.51	3097.34	0.1800	36.000	0.0130	24.00	28.22	4.48	2.13	Calculated
146 Pipe - (423)	Pipe	Structure - (436)	Structure - (437)	38.37	3097.34	3097.27	0.1800	36.000	0.0130	24.00	28.49	4.52	2.11	Calculated
147 Pipe - (424)	Pipe	Structure - (437)	Structure - (438)	64.95	3097.27	3097.15	0.1800	36.000	0.0130	24.00	28.67	4.54	2.10	Calculated
148 Pipe - (425)	Pipe	Structure - (438)	Structure - (439)	79.93	3097.15	3097.01	0.1800	36.000	0.0130	24.00	27.91	4.44	2.15	Calculated
149 Pipe - (426)	Pipe	Structure - (439)	Structure - (440)	142.22	3097.01	3096.75	0.1800	36.000	0.0130	24.00	28.52	4.52	2.11	Calculated
150 Pipe - (427)	Pipe	Structure - (440)	Structure - (441)	107.42	3096.75	3096.55	0.1900	36.000	0.0130	24.00	28.78	4.55	2.09	Calculated
151 Pipe - (428)	Pipe	Structure - (441)	Structure - (442)	80.57	3096.55	3096.40	0.1900	36.000	0.0130	24.00	28.78	4.55	2.09	Calculated
152 Pipe - (429)	Pipe	Structure - (442)	Structure - (443)	55.21	3096.40	3096.30	0.1800	36.000	0.0130	24.00	28.39	4.50	2.12	Calculated
153 Pipe - (430)	Pipe	Structure - (443)	Structure - (444)	109.77	3096.30	3096.10	0.1800	36.000	0.0130	24.00	27.75	4.42	2.16	Calculated
154 Pipe - (431)	Pipe	Structure - (444)	Structure - (445)	75.07	3096.11	3095.97	0.1900	36.000	0.0130	24.00	28.80	4.56	2.09	Calculated
155 Pipe - (432)	Pipe	Structure - (445)	Structure - (447)	38.61	3095.97	3095.90	0.1800	36.000	0.0130	24.00	28.40	4.50	2.12	Calculated
156 Pipe - (434)	Pipe	Structure - (447)	Structure - (447)AP	58.51	3095.90	3095.78	0.2100	36.000	0.0130	24.00	30.33	4.76	2.01	Calculated
157 Pipe - (434) (1)	Pipe	Structure - (447)AP	Structure - (448)	108.21	3095.78	3095.51	0.2500	36.000	0.0130	24.00	33.26	5.12	1.89	Calculated
158 Pipe - (435)	Pipe	Structure - (448)	Structure - (449)	113.18	3095.51	3095.25	0.2300	36.000	0.0130	24.00	31.97	4.96	1.94	Calculated
159 Pipe - (436)	Pipe	Structure - (449)	Structure - (450)	163.76	3095.25	3094.87	0.2300	36.000	0.0130	24.00	32.13	4.98	1.93	Calculated
160 Pipe - (437)	Pipe	Structure - (450)	Structure - (451)	18.39	3094.87	3094.82	0.2700	36.000	0.0130	24.00	34.78	5.30	1.83	Calculated
161 Pipe - (438)	Pipe	Structure - (451)	Structure - (452)	53.75	3094.82	3094.70	0.2200	36.000	0.0130	24.00	31.51	4.91	1.96	Calculated
162 Pipe - (439)	Pipe	Structure - (452)	Structure - (453)	19.62	3094.70	3094.65	0.2500	36.000	0.0130	24.00	33.67	5.17	1.87	Calculated
163 Pipe - (440)	Pipe	Structure - (453)	Structure - (454)	72.14	3094.65	3094.49	0.2200	36.000	0.0130	24.00	31.41	4.89	1.96	Calculated
164 Pipe - (441)	Pipe	Structure - (454)	Structure - (455)	179.23	3094.49	3094.07	0.2300	36.000	0.0130	24.00	32.29	5.00	1.93	Calculated
165 Pipe - (442)	Pipe	Structure - (455)	Structure - (455)AP	71.71	3094.07	3093.91	0.2200	36.000	0.0130	24.00	31.44	4.90	1.96	Calculated
166 Pipe - (442) (1)	Pipe	Structure - (455)AP	Structure - (456)	242.44	3093.91	3093.34	0.2400	36.000	0.0130	24.00	32.36	5.01	1.92	Calculated
167 Pipe - (443)	Pipe	Structure - (456)	Structure - (457)	88.84	3093.34	3093.17	0.1900	36.000	0.0130	24.00	29.18	4.61	2.07	Calculated
168 Pipe - (444)	Pipe	Structure - (457)	Structure - (458)	136.52	3093.17	3092.81	0.2600	36.000	0.0130	24.00	34.25	5.24	1.85	Calculated
169 Pipe - (445)	Pipe	Structure - (458)	Out-1Pipe - (CascadeFalls)	26.85	3092.81	3092.75	0.2200	36.000	0.0130	24.00	31.53	4.91	1.96	Calculated







## Junction Input

SN Element ID	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Initial Water Elevation (ft)	Initial Water Depth (ft)	Surcharge Elevation (ft)	Surcharge Depth (ft)	Ponded Area (ft <sup>2</sup> )	Minimum Pipe Cover (in)
165 Structure - (604)	3110.22	3113.48	3.26	3110.22	0.00	3113.48	0.00	0.00	0.00
166 Structure - (605)	3109.91	3113.17	3.26	3109.91	0.00	3113.17	0.00	0.00	0.00
167 Structure - (606)	3109.86	3113.12	3.26	3109.86	0.00	3113.12	0.00	0.00	0.00
168 Structure - (607)	3109.81	3113.07	3.26	3109.81	0.00	3113.07	0.00	0.00	0.00
169 Structure - (608)	3109.80	3113.06	3.26	3109.80	0.00	3113.06	0.00	0.00	0.00

## Junction Results

SN	Element ID	Peak Inflow	Max HGL Elevation	Max HGL Depth	Max Surchage Depth	Min Freeboard	Average HGL Elevation	Average HGL Depth	Total Flooded Volume
		(cfs)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ac-in)
1	Structure - (298)-WoodleafSiphonOutlet	24.00	3118.67	2.11	0.00	1.39	3118.67	2.11	0.00
2	Structure - (299)	24.00	3118.81	2.33	0.00	1.17	3118.81	2.33	0.00
3	Structure - (300)	24.00	3118.78	2.33	0.00	0.67	3118.78	2.33	0.00
4	Structure - (301)	24.00	3118.65	2.22	0.00	0.78	3118.65	2.22	0.00
5	Structure - (302)	24.00	3118.61	2.22	0.00	1.28	3118.61	2.22	0.00
6	Structure - (303)	24.00	3118.43	2.09	0.00	1.41	3118.43	2.09	0.00
7	Structure - (304)	24.00	3118.58	2.31	0.00	1.19	3118.58	2.31	0.00
8	Structure - (305)	24.00	3118.50	2.31	0.00	0.94	3118.50	2.31	0.00
9	Structure - (306)	24.00	3118.48	2.36	0.00	0.90	3118.48	2.36	0.00
10	Structure - (307)	24.00	3118.36	2.36	0.00	0.90	3118.36	2.36	0.00
11	Structure - (308)	24.00	3118.25	2.35	0.00	0.91	3118.25	2.35	0.00
12	Structure - (309)	24.00	3118.07	2.35	0.00	0.90	3118.07	2.35	0.00
13	Structure - (310)AP	24.00	3117.83	2.33	0.00	1.60	3117.83	2.33	0.00
14	Structure - (311)	24.00	3117.46	2.36	0.00	0.90	3117.46	2.36	0.00
15	Structure - (312)	24.00	3117.31	2.36	0.00	0.89	3117.31	2.36	0.00
16	Structure - (313)	24.00	3117.09	2.29	0.00	1.21	3117.09	2.29	0.00
17	Structure - (314)	24.00	3116.93	2.19	0.00	1.31	3116.93	2.19	0.00
18	Structure - (315)Turn Out - Box-4	24.00	3116.97	2.26	0.00	2.33	3116.97	2.26	0.00
19	Structure - (316)	24.00	3116.94	2.27	0.00	0.98	3116.94	2.27	0.00
20	Structure - (317)	24.00	3116.91	2.38	0.00	0.88	3116.91	2.38	0.00
21	Structure - (318)	24.00	3116.85	2.38	0.00	0.87	3116.85	2.38	0.00
22	Structure - (319)	24.00	3116.65	2.33	0.00	0.92	3116.65	2.33	0.00
23	Structure - (320)	24.00	3116.57	2.35	0.00	0.91	3116.57	2.35	0.00
24	Structure - (320)AP	24.00	3116.42	2.35	0.00	1.58	3116.42	2.35	0.00
25	Structure - (321)	24.00	3116.34	2.37	0.00	0.88	3116.34	2.37	0.00
26	Structure - (322)	24.00	3116.29	2.37	0.00	0.88	3116.29	2.37	0.00
27	Structure - (323)	24.00	3116.24	2.36	0.00	0.89	3116.24	2.36	0.00
28	Structure - (324)	24.00	3115.95	2.28	0.00	1.22	3115.95	2.28	0.00
29	Structure - (325)	24.00	3116.04	2.39	0.00	1.11	3116.04	2.39	0.00
30	Structure - (326)	24.00	3115.97	2.39	0.00	0.61	3115.97	2.39	0.00
31	Structure - (327)	24.00	3115.83	2.29	0.00	0.96	3115.83	2.29	0.00
32	Structure - (328)	24.00	3115.83	2.37	0.00	0.88	3115.83	2.37	0.00
33	Structure - (329)	24.00	3115.65	2.37	0.00	0.88	3115.65	2.37	0.00
34	Structure - (330)	24.00	3115.62	2.36	0.00	0.64	3115.62	2.36	0.00
35	Structure - (331)	24.00	3115.59	2.36	0.00	0.88	3115.59	2.36	0.00
36	Structure - (333)	24.00	3115.53	2.32	0.00	1.18	3115.53	2.32	0.00
37	Structure - (334)	24.00	3115.27	2.13	0.00	1.37	3115.27	2.13	0.00
38	Structure - (335)	24.00	3115.16	2.16	0.00	1.34	3115.16	2.16	0.00
39	Structure - (337)	24.00	3114.93	2.16	0.00	1.34	3114.93	2.16	0.00
40	Structure - (338)	24.00	3114.85	2.13	0.00	1.37	3114.85	2.13	0.00
41	Structure - (339)AP	24.00	3114.82	2.13	0.00	1.46	3114.82	2.13	0.00
42	Structure - (340)	24.00	3114.87	2.27	0.00	1.23	3114.87	2.27	0.00
43	Structure - (341)	24.00	3114.89	2.32	0.00	0.93	3114.89	2.32	0.00
44	Structure - (342)	24.00	3114.76	2.35	0.00	0.90	3114.76	2.35	0.00
45	Structure - (343)	24.00	3114.79	2.39	0.00	0.86	3114.79	2.39	0.00
46	Structure - (345)	24.00	3114.67	2.39	0.00	0.86	3114.67	2.39	0.00
47	Structure - (346)	24.00	3114.26	2.00	0.00	1.26	3114.26	2.00	0.00
48	Structure - (347)	24.00	3114.15	2.00	0.00	1.25	3114.15	2.00	0.00
49	Structure - (352)	24.00	3113.39	2.00	0.00	1.26	3113.39	2.00	0.00
50	Structure - (353)	24.00	3113.34	2.00	0.00	1.26	3113.34	2.00	0.00
51	Structure - (354)	24.00	3113.28	2.00	0.00	1.25	3113.28	2.00	0.00
52	Structure - (355)	24.00	3113.23	2.00	0.00	1.25	3113.23	2.00	0.00
53	Structure - (356)	24.00	3113.01	1.99	0.00	1.26	3113.01	1.99	0.00
54	Structure - (357)AP	24.00	3112.72	2.06	0.00	1.87	3112.72	2.06	0.00
55	Structure - (361)	24.00	3111.90	2.17	0.00	1.33	3111.90	2.17	0.00
56	Structure - (362)	24.00	3111.88	2.17	0.00	1.09	3111.88	2.17	0.00
57	Structure - (363)	24.00	3111.70	2.16	0.00	1.09	3111.70	2.16	0.00
58	Structure - (364)	24.00	3111.63	2.16	0.00	1.09	3111.63	2.16	0.00
59	Structure - (365)	24.00	3111.61	2.17	0.00	1.09	3111.61	2.17	0.00
60	Structure - (366)	24.00	3111.55	2.17	0.00	1.09	3111.55	2.17	0.00
61	Structure - (367)	24.00	3111.50	2.17	0.00	1.09	3111.50	2.17	0.00
62	Structure - (368)	24.00	3111.57	2.26	0.00	0.99	3111.57	2.26	0.00
63	Structure - (369)AP	24.00	3111.39	2.27	0.00	1.66	3111.39	2.27	0.00
64	Structure - (370)	24.00	3111.12	2.16	0.00	1.09	3111.12	2.16	0.00
65	Structure - (372)	24.00	3111.00	2.17	0.00	1.09	3111.00	2.17	0.00
66	Structure - (373)	24.00	3110.80	2.16	0.00	1.09	3110.80	2.16	0.00
67	Structure - (374)	24.00	3110.69	2.16	0.00	1.10	3110.69	2.16	0.00
68	Structure - (375)	24.00	3110.17	1.93	0.00	1.33	3110.17	1.93	0.00
69	Structure - (376)	24.00	3109.97	1.93	0.00	1.33	3109.97	1.93	0.00
70	Structure - (377)	24.00	3109.77	1.93	0.00	1.33	3109.77	1.93	0.00
71	Structure - (378)	24.00	3109.60	1.93	0.00	1.33	3109.60	1.93	0.00
72	Structure - (379)	24.00	3109.54	1.93	0.00	1.33	3109.54	1.93	0.00
73	Structure - (380)	24.00	3109.38	1.93	0.00	1.33	3109.38	1.93	0.00
74	Structure - (381)	24.00	3109.22	1.93	0.00	1.33	3109.22	1.93	0.00
75	Structure - (382)	24.00	3109.30	2.26	0.00	1.00	3109.30	2.26	0.00
76	Structure - (382)AP	24.00	3109.26	2.26	0.00	1.67	3109.26	2.26	0.00
77	Structure - (383)	24.00	3109.15	2.30	0.00	0.96	3109.15	2.30	0.00
78	Structure - (384)	24.00	3108.87	2.30	0.00	0.95	3108.87	2.30	0.00
79	Structure - (385)	24.00	3108.76	2.29	0.00	0.96	3108.76	2.29	0.00
80	Structure - (386)	24.00	3108.59	2.29	0.00	0.96	3108.59	2.29	0.00
81	Structure - (387)	24.00	3108.34	2.27	0.00	0.98	3108.34	2.27	0.00

# Junction Results

SN Element ID	Peak Inflow (cfs)	Max HGL Elevation (ft)	Max HGL Depth (ft)	Max Surchage Depth (ft)	Min Freeboard (ft)	Average HGL Elevation (ft)	Average HGL Depth (ft)	Total Flooded Volume (ac-in)
82 Structure - (388)	24.00	3108.32	2.33	0.00	0.93	3108.32	2.33	0.00
83 Structure - (389)	24.00	3108.21	2.33	0.00	0.92	3108.21	2.33	0.00
84 Structure - (390)	24.00	3108.07	2.27	0.00	0.98	3108.07	2.27	0.00
85 Structure - (391)	24.00	3107.85	2.26	0.00	0.99	3107.85	2.26	0.00
86 Structure - (391)AP	24.00	3107.82	2.26	0.00	1.70	3107.82	2.26	0.00
87 Structure - (392)	24.00	3107.71	2.35	0.00	0.91	3107.71	2.35	0.00
88 Structure - (393)	24.00	3107.64	2.35	0.00	0.90	3107.64	2.35	0.00
89 Structure - (394)	24.00	3107.56	2.30	0.00	0.96	3107.56	2.30	0.00
90 Structure - (395)	24.00	3107.57	2.35	0.00	0.91	3107.57	2.35	0.00
91 Structure - (396)	24.00	3107.50	2.35	0.00	0.90	3107.50	2.35	0.00
92 Structure - (397)	24.00	3107.42	2.33	0.00	0.67	3107.42	2.33	0.00
93 Structure - (398)	24.00	3107.39	2.32	0.00	0.93	3107.39	2.32	0.00
94 Structure - (399)	24.00	3107.37	2.32	0.00	0.93	3107.37	2.32	0.00
95 Structure - (400)	24.00	3107.24	2.27	0.00	0.99	3107.24	2.27	0.00
96 Structure - (401)	24.00	3106.71	2.28	0.00	0.98	3106.71	2.28	0.00
97 Structure - (401)AP	24.00	3106.32	2.28	0.00	1.65	3106.32	2.28	0.00
98 Structure - (402)	24.00	3106.26	2.28	0.00	0.97	3106.26	2.28	0.00
99 Structure - (403)	24.00	3105.84	1.91	0.00	1.34	3105.84	1.91	0.00
100 Structure - (404)	24.00	3105.67	1.85	0.00	1.41	3105.67	1.85	0.00
101 Structure - (405)	24.00	3105.05	1.88	0.00	1.38	3105.05	1.88	0.00
102 Structure - (406)	24.00	3105.01	1.88	0.00	1.38	3105.01	1.88	0.00
103 Structure - (407)	24.00	3104.91	1.87	0.00	1.38	3104.91	1.87	0.00
104 Structure - (408)	24.00	3104.76	1.85	0.00	1.40	3104.76	1.85	0.00
105 Structure - (409)	24.00	3104.57	1.85	0.00	1.40	3104.57	1.85	0.00
106 Structure - (409)TO	24.00	3104.43	1.96	0.00	2.80	3104.43	1.96	0.00
107 Structure - (410)	24.00	3104.46	2.04	0.00	1.21	3104.46	2.04	0.00
108 Structure - (411)	24.00	3104.28	2.05	0.00	1.21	3104.28	2.05	0.00
109 Structure - (412)	24.00	3104.19	2.02	0.00	1.23	3104.19	2.02	0.00
110 Structure - (413)	24.00	3103.70	2.02	0.00	1.23	3103.70	2.02	0.00
111 Structure - (414)	24.00	3103.49	2.02	0.00	1.23	3103.49	2.02	0.00
112 Structure - (415)	24.00	3103.35	2.02	0.00	1.23	3103.35	2.02	0.00
113 Structure - (416)	24.00	3103.06	2.02	0.00	1.23	3103.06	2.02	0.00
114 Structure - (417)	24.00	3102.67	2.02	0.00	1.23	3102.67	2.02	0.00
115 Structure - (418)	24.00	3102.34	2.02	0.00	1.23	3102.34	2.02	0.00
116 Structure - (419)	24.00	3102.01	2.02	0.00	1.23	3102.01	2.02	0.00
117 Structure - (420)	24.00	3101.86	2.02	0.00	1.23	3101.86	2.02	0.00
118 Structure - (420)AP	24.00	3101.73	2.11	0.00	1.82	3101.73	2.11	0.00
119 Structure - (421)	24.00	3101.58	2.10	0.00	1.15	3101.58	2.10	0.00
120 Structure - (422)	24.00	3101.51	2.15	0.00	1.11	3101.51	2.15	0.00
121 Structure - (423)	24.00	3101.42	2.15	0.00	1.10	3101.42	2.15	0.00
122 Structure - (424)	24.00	3101.29	2.11	0.00	1.15	3101.29	2.11	0.00
123 Structure - (425)	24.00	3100.86	2.11	0.00	1.15	3100.86	2.11	0.00
124 Structure - (426)	24.00	3100.56	2.11	0.00	1.14	3100.56	2.11	0.00
125 Structure - (427)	24.00	3100.54	2.12	0.00	1.14	3100.54	2.12	0.00
126 Structure - (428)	24.00	3100.48	2.11	0.00	1.14	3100.48	2.11	0.00
127 Structure - (429)	24.00	3100.46	2.12	0.00	1.14	3100.46	2.12	0.00
128 Structure - (430)	24.00	3100.38	2.11	0.00	1.14	3100.38	2.11	0.00
129 Structure - (431)	24.00	3100.30	2.18	0.00	1.08	3100.30	2.18	0.00
130 Structure - (432)	24.00	3100.11	2.18	0.00	1.08	3100.11	2.18	0.00
131 Structure - (433)	24.00	3099.96	2.06	0.00	1.20	3099.96	2.06	0.00
132 Structure - (434)AP	24.00	3099.77	2.09	0.00	2.43	3099.77	2.09	0.00
133 Structure - (435)	24.00	3099.64	2.13	0.00	1.13	3099.64	2.13	0.00
134 Structure - (436)	24.00	3099.47	2.13	0.00	1.13	3099.47	2.13	0.00
135 Structure - (437)	24.00	3099.38	2.11	0.00	1.15	3099.38	2.11	0.00
136 Structure - (438)	24.00	3099.30	2.15	0.00	1.11	3099.30	2.15	0.00
137 Structure - (439)	24.00	3099.16	2.15	0.00	1.10	3099.16	2.15	0.00
138 Structure - (440)	24.00	3098.86	2.11	0.00	1.14	3098.86	2.11	0.00
139 Structure - (441)	24.00	3098.64	2.09	0.00	1.17	3098.64	2.09	0.00
140 Structure - (442)	24.00	3098.52	2.12	0.00	1.14	3098.52	2.12	0.00
141 Structure - (443)	24.00	3098.46	2.16	0.00	1.10	3098.46	2.16	0.00
142 Structure - (444)	24.00	3098.27	2.16	0.00	0.84	3098.27	2.16	0.00
143 Structure - (445)	24.00	3098.09	2.12	0.00	1.13	3098.09	2.12	0.00
144 Structure - (447)	24.00	3098.02	2.12	0.00	1.14	3098.02	2.12	0.00
145 Structure - (447)AP	24.00	3097.79	2.01	0.00	1.92	3097.79	2.01	0.00
146 Structure - (448)	24.00	3097.45	1.94	0.00	1.32	3097.45	1.94	0.00
147 Structure - (449)	24.00	3097.19	1.94	0.00	1.31	3097.19	1.94	0.00
148 Structure - (450)	24.00	3096.80	1.93	0.00	1.32	3096.80	1.93	0.00
149 Structure - (451)	24.00	3096.78	1.96	0.00	1.30	3096.78	1.96	0.00
150 Structure - (452)	24.00	3096.66	1.96	0.00	1.30	3096.66	1.96	0.00
151 Structure - (453)	24.00	3096.61	1.96	0.00	1.30	3096.61	1.96	0.00
152 Structure - (454)	24.00	3096.45	1.96	0.00	1.29	3096.45	1.96	0.00
153 Structure - (455)	24.00	3096.03	1.96	0.00	1.29	3096.03	1.96	0.00
154 Structure - (455)AP	24.00	3095.87	1.96	0.00	1.97	3095.87	1.96	0.00
155 Structure - (456)	24.00	3095.41	2.07	0.00	1.18	3095.41	2.07	0.00
156 Structure - (457)	24.00	3095.24	2.07	0.00	1.19	3095.24	2.07	0.00
157 Structure - (458)	24.00	3094.77	1.96	0.00	1.30	3094.77	1.96	0.00
158 Structure - (597)	24.00	3114.14	2.00	0.00	1.25	3114.14	2.00	0.00
159 Structure - (598)	24.00	3114.00	2.00	0.00	1.26	3114.00	2.00	0.00
160 Structure - (599)	24.00	3113.81	2.01	0.00	1.24	3113.81	2.01	0.00
161 Structure - (600)	24.00	3113.82	2.02	0.00	1.24	3113.82	2.02	0.00
162 Structure - (601)	24.00	3112.56	2.08	0.00	1.42	3112.56	2.08	0.00

## Junction Results

SN Element ID	Peak 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)	Total Flooded Volume (ac-in)
163 Structure - (602)	24.00	3112.42	2.08	0.00	1.42	3112.42	2.08	0.00
164 Structure - (603)	24.00	3112.22	1.90	0.00	1.35	3112.22	1.90	0.00
165 Structure - (604)	24.00	3112.05	1.83	0.00	1.43	3112.05	1.83	0.00
166 Structure - (605)	24.00	3111.74	1.83	0.00	1.43	3111.74	1.83	0.00
167 Structure - (606)	24.00	3111.74	1.88	0.00	1.38	3111.74	1.88	0.00
168 Structure - (607)	24.00	3111.96	2.15	0.00	1.35	3111.96	2.15	0.00
169 Structure - (608)	24.00	3111.95	2.15	0.00	1.35	3111.95	2.15	0.00

# Pipe Input

SN Element ID	Length (ft)	Inlet Invert Elevation (ft)	Outlet Invert Elevation (ft)	Average Slope (%)	Pipe Diameter or Height (in)	Manning's Roughness	Entrance Losses	Exit/Bend Losses	Initial Flow (cfs)
1 Pipe - (289)	64.66	3116.56	3116.48	0.1200	42.000	0.0130	0.6000	0.6000	0.00
2 Pipe - (290)	20.80	3116.48	3116.45	0.1400	36.000	0.0130	0.6000	0.6000	0.00
3 Pipe - (291)	9.45	3116.45	3116.43	0.2100	36.000	0.0130	0.6000	0.6000	0.00
4 Pipe - (292)	24.87	3116.43	3116.39	0.1600	36.000	0.0130	0.6000	0.6000	0.00
5 Pipe - (293)	39.24	3116.39	3116.34	0.1300	42.000	0.0130	0.6000	0.6000	0.00
6 Pipe - (294)	52.28	3116.34	3116.27	0.1300	42.000	0.0130	0.6000	0.6000	0.00
7 Pipe - (295)	54.61	3116.27	3116.19	0.1500	36.000	0.0130	0.6000	0.6000	0.00
8 Pipe - (296)	41.97	3116.19	3116.12	0.1700	36.000	0.0130	0.6000	0.6000	0.00
9 Pipe - (297)	85.32	3116.12	3116.00	0.1400	36.000	0.0130	0.6000	0.6000	0.00
10 Pipe - (298)	68.75	3116.00	3115.90	0.1500	36.000	0.0130	0.6000	0.6000	0.00
11 Pipe - (299)	126.57	3115.90	3115.72	0.1400	36.000	0.0130	0.6000	0.6000	0.00
12 Pipe - (300)	146.10	3115.72	3115.50	0.1500	36.000	0.0130	0.6000	0.6000	0.00
13 Pipe - (301)	276.86	3115.50	3115.10	0.1400	36.000	0.0130	0.6000	0.6000	0.00
14 Pipe - (302)	106.58	3115.10	3114.95	0.1400	36.000	0.0130	0.6000	0.6000	0.00
15 Pipe - (303)	99.85	3114.95	3114.80	0.1500	36.000	0.0130	0.6000	0.6000	0.00
16 Pipe - (304)	49.29	3114.80	3114.74	0.1200	42.000	0.0130	0.6000	0.6000	0.00
17 Pipe - (305)	18.11	3114.74	3114.71	0.1700	36.000	0.0130	0.6000	0.6000	0.00
18 Pipe - (306)	26.00	3114.71	3114.67	0.1500	36.000	0.0130	0.6000	0.6000	0.00
19 Pipe - (307)	92.07	3114.67	3114.53	0.1500	36.000	0.0130	0.6000	0.6000	0.00
20 Pipe - (308)	43.64	3114.53	3114.47	0.1400	36.000	0.0130	0.6000	0.6000	0.00
21 Pipe - (309)	104.45	3114.47	3114.32	0.1400	36.000	0.0130	0.6000	0.6000	0.00
22 Pipe - (310)	66.88	3114.32	3114.22	0.1500	36.000	0.0130	0.6000	0.6000	0.00
23 Pipe - (311)	105.90	3114.22	3114.07	0.1400	36.000	0.0130	0.6000	0.6000	0.00
24 Pipe - (311) (1)	67.15	3114.07	3113.97	0.1500	36.000	0.0130	0.6000	0.6000	0.00
25 Pipe - (312)	35.77	3113.97	3113.92	0.1400	36.000	0.0130	0.6000	0.6000	0.00
26 Pipe - (313)	28.54	3113.92	3113.88	0.1400	36.000	0.0130	0.6000	0.6000	0.00
27 Pipe - (314)	138.98	3113.88	3113.67	0.1500	36.000	0.0130	0.6000	0.6000	0.00
28 Pipe - (315)	17.18	3113.67	3113.65	0.1200	42.000	0.0130	0.6000	0.6000	0.00
29 Pipe - (316)	51.12	3113.65	3113.58	0.1400	36.000	0.0130	0.6000	0.6000	0.00
30 Pipe - (317)	26.34	3113.58	3113.54	0.1500	36.000	0.0130	0.6000	0.6000	0.00
31 Pipe - (318)	53.54	3113.54	3113.46	0.1500	36.000	0.0130	0.6000	0.6000	0.00
32 Pipe - (319)	129.76	3113.46	3113.28	0.1400	36.000	0.0130	0.6000	0.6000	0.00
33 Pipe - (320)	13.67	3113.28	3113.26	0.1500	36.000	0.0130	0.6000	0.6000	0.00
34 Pipe - (321)	21.38	3113.26	3113.23	0.1400	36.000	0.0130	0.6000	0.6000	0.00
35 Pipe - (322)	13.67	3113.23	3113.21	0.1500	36.000	0.0130	0.6000	0.6000	0.00
36 Pipe - (323)	53.05	3113.21	3113.14	0.1300	42.000	0.0130	0.6000	0.6000	0.00
37 Pipe - (324)	115.56	3113.14	3113.00	0.1200	42.000	0.0130	0.6000	0.6000	0.00
38 Pipe - (325)	199.45	3113.00	3112.77	0.1200	42.000	0.0130	0.6000	0.6000	0.00
39 Pipe - (326)	40.39	3112.77	3112.72	0.1200	42.000	0.0130	0.6000	0.6000	0.00
40 Pipe - (327)	16.89	3112.72	3112.69	0.1800	36.000	0.0130	0.6000	0.6000	0.00
41 Pipe - (328)	70.01	3112.69	3112.60	0.1300	42.000	0.0130	0.6000	0.6000	0.00
42 Pipe - (329)	19.64	3112.60	3112.57	0.1500	36.000	0.0130	0.6000	0.6000	0.00
43 Pipe - (330)	112.40	3112.57	3112.41	0.1500	36.000	0.0130	0.6000	0.6000	0.00
44 Pipe - (331)	4.83	3112.41	3112.40	0.1400	36.000	0.0130	0.6000	0.6000	0.00
45 Pipe - (331) WoodtoHDPE	88.06	3112.40	3112.28	0.1400	36.000	0.0130	0.6000	0.6000	0.00
46 Pipe - (332)	8.85	3112.28	3112.26	0.2300	36.000	0.0130	0.6000	0.6000	0.00
47 Pipe - (333)	51.99	3112.26	3112.15	0.2100	36.000	0.0130	0.6000	0.6000	0.00
48 Pipe - (334)	5.05	3112.15	3112.14	0.2100	36.000	0.0130	0.6000	0.6000	0.00
49 Pipe - (335) CMPtoHDPE	67.52	3112.14	3112.00	0.2100	36.000	0.0130	0.6000	0.6000	0.00
50 Pipe - (336) CMPtoHDPE	91.69	3112.00	3111.80	0.2100	36.000	0.0130	0.6000	0.6000	0.00
51 Pipe - (337)	2.49	3111.80	3111.80	0.2100	36.000	0.0130	0.6000	0.6000	0.00
52 Pipe - (338)	192.72	3111.80	3111.39	0.2100	36.000	0.0130	0.6000	0.6000	0.00
53 Pipe - (339)	22.82	3111.39	3111.34	0.2100	36.000	0.0130	0.6000	0.6000	0.00
54 Pipe - (340)	32.15	3111.34	3111.28	0.2100	36.000	0.0130	0.6000	0.6000	0.00
55 Pipe - (341)	23.80	3111.28	3111.23	0.2100	36.000	0.0130	0.6000	0.6000	0.00
56 Pipe - (342)	99.48	3111.23	3111.02	0.2100	36.000	0.0130	0.6000	0.6000	0.00
57 Pipe - (343)	168.35	3111.02	3110.66	0.2100	36.000	0.0130	0.6000	0.6000	0.00
58 Pipe - (344)	134.68	3110.66	3110.48	0.1300	42.000	0.0130	0.6000	0.6000	0.00
59 Pipe - (345)	106.80	3110.48	3110.34	0.1300	42.000	0.0130	0.6000	0.6000	0.00
60 Pipe - (346)	8.23	3110.34	3110.32	0.2400	36.000	0.0130	0.6000	0.6000	0.00
61 Pipe - (346) WoodtoHDPE1	35.57	3110.32	3110.22	0.2800	36.000	0.0130	0.6000	0.6000	0.00
62 Pipe - (346) WoodtoHDPE2	111.68	3110.22	3109.91	0.2700	36.000	0.0130	0.6000	0.6000	0.00
63 Pipe - (346) WoodtoHDPE3	18.93	3109.91	3109.86	0.2700	36.000	0.0130	0.6000	0.6000	0.00
64 Pipe - (346) WoodtoHDPE4	20.57	3109.86	3109.81	0.2500	36.000	0.0130	0.6000	0.6000	0.00
65 Pipe - (346) WoodtoHDPE5	6.08	3109.81	3109.80	0.1200	42.000	0.0130	0.6000	0.6000	0.00
66 Pipe - (346) WoodtoHDPE6	61.41	3109.80	3109.73	0.1200	42.000	0.0130	0.6000	0.6000	0.00
67 Pipe - (347)	10.25	3109.73	3109.71	0.1700	36.000	0.0130	0.6000	0.6000	0.00
68 Pipe - (348)	101.96	3109.71	3109.54	0.1700	36.000	0.0130	0.6000	0.6000	0.00
69 Pipe - (349)	39.55	3109.54	3109.47	0.1700	36.000	0.0130	0.6000	0.6000	0.00
70 Pipe - (350)	13.69	3109.47	3109.44	0.1700	36.000	0.0130	0.6000	0.6000	0.00
71 Pipe - (351)	34.74	3109.44	3109.38	0.1700	36.000	0.0130	0.6000	0.6000	0.00
72 Pipe - (352)	31.03	3109.38	3109.33	0.1700	36.000	0.0130	0.6000	0.6000	0.00
73 Pipe - (353)	13.06	3109.33	3109.31	0.1800	36.000	0.0130	0.6000	0.6000	0.00
74 Pipe - (355)	79.65	3109.12	3108.96	0.2000	36.000	0.0130	0.6000	0.6000	0.00
75 Pipe - (357)	122.66	3109.31	3109.12	0.1500	36.000	0.0130	0.6000	0.6000	0.00
76 Pipe - (358)	73.98	3108.96	3108.83	0.1700	36.000	0.0130	0.6000	0.6000	0.00
77 Pipe - (359)	115.36	3108.83	3108.64	0.1700	36.000	0.0130	0.6000	0.6000	0.00
78 Pipe - (360)	61.43	3108.64	3108.53	0.1700	36.000	0.0130	0.6000	0.6000	0.00
79 Pipe - (360) WoodtoHDPE	84.04	3108.53	3108.24	0.3500	36.000	0.0130	0.6000	0.6000	0.00
80 Pipe - (361)	86.77	3108.24	3108.04	0.2300	36.000	0.0130	0.6000	0.6000	0.00
81 Pipe - (362)	83.89	3108.04	3107.84	0.2300	36.000	0.0130	0.6000	0.6000	0.00
82 Pipe - (363)	71.93	3107.84	3107.67	0.2300	36.000	0.0130	0.6000	0.6000	0.00

# Pipe Input

SN Element ID	Length (ft)	Inlet Invert Elevation (ft)	Outlet Invert Elevation (ft)	Average Slope (%)	Pipe Diameter or Height (in)	Manning's Roughness	Entrance Losses	Exit/Bend Losses	Initial Flow (cfs)
83 Pipe - (364)	25.07	3107.67	3107.61	0.2300	36.000	0.0130	0.6000	0.6000	0.00
84 Pipe - (365)	70.07	3107.61	3107.45	0.2300	36.000	0.0130	0.6000	0.6000	0.00
85 Pipe - (366)	69.93	3107.45	3107.29	0.2300	36.000	0.0130	0.6000	0.6000	0.00
86 Pipe - (367)	98.43	3107.29	3107.04	0.2500	36.000	0.0130	0.6000	0.6000	0.00
87 Pipe - (368)	24.15	3107.04	3107.00	0.1600	36.000	0.0130	0.6000	0.6000	0.00
88 Pipe - (368) (1)	98.36	3107.00	3106.85	0.1600	36.000	0.0130	0.6000	0.6000	0.00
89 Pipe - (369)	189.13	3106.85	3106.57	0.1500	36.000	0.0130	0.6000	0.6000	0.00
90 Pipe - (370)	64.36	3106.57	3106.47	0.1600	36.000	0.0130	0.6000	0.6000	0.00
91 Pipe - (371)	113.30	3106.47	3106.30	0.1500	36.000	0.0130	0.6000	0.6000	0.00
92 Pipe - (372)	149.83	3106.30	3106.07	0.1500	36.000	0.0130	0.6000	0.6000	0.00
93 Pipe - (374)	49.25	3106.07	3105.99	0.1600	36.000	0.0130	0.6000	0.6000	0.00
94 Pipe - (375)	76.15	3105.99	3105.88	0.1400	36.000	0.0130	0.6000	0.6000	0.00
95 Pipe - (376)	52.60	3105.88	3105.80	0.1500	36.000	0.0130	0.6000	0.6000	0.00
96 Pipe - (377)	136.49	3105.80	3105.59	0.1500	36.000	0.0130	0.6000	0.6000	0.00
97 Pipe - (378)	20.36	3105.59	3105.56	0.1500	36.000	0.0130	0.6000	0.6000	0.00
98 Pipe - (378) (1)	127.99	3105.56	3105.36	0.1600	36.000	0.0130	0.6000	0.6000	0.00
99 Pipe - (379)	49.35	3105.36	3105.29	0.1400	36.000	0.0130	0.6000	0.6000	0.00
100 Pipe - (380)	17.07	3105.29	3105.26	0.1800	36.000	0.0130	0.6000	0.6000	0.00
101 Pipe - (381)	26.88	3105.26	3105.22	0.1500	36.000	0.0130	0.6000	0.6000	0.00
102 Pipe - (382)	49.52	3105.22	3105.15	0.1400	36.000	0.0130	0.6000	0.6000	0.00
103 Pipe - (383)	41.50	3105.15	3105.09	0.1400	36.000	0.0130	0.6000	0.6000	0.00
104 Pipe - (384)	10.53	3105.09	3105.07	0.1900	36.000	0.0130	0.6000	0.6000	0.00
105 Pipe - (385)	13.68	3105.07	3105.05	0.1500	36.000	0.0130	0.6000	0.6000	0.00
106 Pipe - (386)	47.87	3105.05	3104.97	0.1700	36.000	0.0130	0.6000	0.6000	0.00
107 Pipe - (387)	354.58	3104.97	3104.43	0.1500	36.000	0.0130	0.6000	0.6000	0.00
108 Pipe - (388)	260.90	3104.43	3104.04	0.1500	36.000	0.0130	0.6000	0.6000	0.00
109 Pipe - (388) (1)	36.70	3104.04	3103.98	0.1500	36.000	0.0130	0.6000	0.6000	0.00
110 Pipe - (389)	20.88	3103.98	3103.93	0.2400	36.000	0.0130	0.6000	0.6000	0.00
111 Pipe - (390)	39.71	3103.93	3103.82	0.2800	36.000	0.0130	0.6000	0.6000	0.00
112 Pipe - (391)	245.90	3103.82	3103.17	0.2600	36.000	0.0130	0.6000	0.6000	0.00
113 Pipe - (392)	15.92	3103.17	3103.13	0.2500	36.000	0.0130	0.6000	0.6000	0.00
114 Pipe - (393)	35.04	3103.13	3103.04	0.2600	36.000	0.0130	0.6000	0.6000	0.00
115 Pipe - (394)	49.11	3103.04	3102.91	0.2600	36.000	0.0130	0.6000	0.6000	0.00
116 Pipe - (395)	72.35	3102.91	3102.72	0.2600	36.000	0.0130	0.6000	0.6000	0.00
117 Pipe - (396)	91.47	3102.72	3102.47	0.2700	36.000	0.0130	0.6000	0.6000	0.00
118 Pipe - (396) (1)	22.25	3102.47	3102.42	0.2200	36.000	0.0130	0.6000	0.6000	0.00
119 Pipe - (397)	93.62	3102.42	3102.23	0.2000	36.000	0.0130	0.6000	0.6000	0.00
120 Pipe - (398)	29.75	3102.23	3102.17	0.2100	36.000	0.0130	0.6000	0.6000	0.00
121 Pipe - (399)	242.85	3102.17	3101.68	0.2000	36.000	0.0130	0.6000	0.6000	0.00
122 Pipe - (400)	103.02	3101.68	3101.47	0.2000	36.000	0.0130	0.6000	0.6000	0.00
123 Pipe - (401)	65.85	3101.47	3101.33	0.2000	36.000	0.0130	0.6000	0.6000	0.00
124 Pipe - (402)	143.47	3101.33	3101.04	0.2000	36.000	0.0130	0.6000	0.6000	0.00
125 Pipe - (403)	188.81	3101.04	3100.65	0.2000	36.000	0.0130	0.6000	0.6000	0.00
126 Pipe - (404)	160.72	3100.65	3100.32	0.2000	36.000	0.0130	0.6000	0.6000	0.00
127 Pipe - (405)	160.80	3100.32	3099.99	0.2000	36.000	0.0130	0.6000	0.6000	0.00
128 Pipe - (406)	76.37	3099.99	3099.84	0.2000	36.000	0.0130	0.6000	0.6000	0.00
129 Pipe - (407)	105.30	3099.84	3099.62	0.2000	36.000	0.0130	0.6000	0.6000	0.00
130 Pipe - (407) (1)	77.31	3099.62	3099.48	0.1800	36.000	0.0130	0.6000	0.6000	0.00
131 Pipe - (408)	65.13	3099.48	3099.36	0.1800	36.000	0.0130	0.6000	0.6000	0.00
132 Pipe - (409)	51.84	3099.36	3099.27	0.1700	36.000	0.0130	0.6000	0.6000	0.00
133 Pipe - (410)	47.78	3099.27	3099.18	0.1900	36.000	0.0130	0.6000	0.6000	0.00
134 Pipe - (411)	234.09	3099.18	3098.75	0.1800	36.000	0.0130	0.6000	0.6000	0.00
135 Pipe - (412)	167.96	3098.75	3098.45	0.1800	36.000	0.0130	0.6000	0.6000	0.00
136 Pipe - (413)	12.21	3098.45	3098.42	0.1800	36.000	0.0130	0.6000	0.6000	0.00
137 Pipe - (414)	30.34	3098.42	3098.37	0.1800	36.000	0.0130	0.6000	0.6000	0.00
138 Pipe - (415)	13.70	3098.37	3098.34	0.1800	36.000	0.0130	0.6000	0.6000	0.00
139 Pipe - (416)	41.46	3098.34	3098.27	0.1800	36.000	0.0130	0.6000	0.6000	0.00
140 Pipe - (417)	78.41	3098.27	3098.12	0.1800	36.000	0.0130	0.6000	0.6000	0.00
141 Pipe - (418)	114.69	3098.12	3097.93	0.1700	36.000	0.0130	0.6000	0.6000	0.00
142 Pipe - (419)	15.35	3097.93	3097.90	0.2000	36.000	0.0130	0.6000	0.6000	0.00
143 Pipe - (420)	113.09	3097.90	3097.68	0.1900	36.000	0.0130	0.6000	0.6000	0.00
144 Pipe - (421)	90.83	3097.68	3097.51	0.1900	36.000	0.0130	0.6000	0.6000	0.00
145 Pipe - (422)	94.96	3097.51	3097.34	0.1800	36.000	0.0130	0.6000	0.6000	0.00
146 Pipe - (423)	38.37	3097.34	3097.27	0.1800	36.000	0.0130	0.6000	0.6000	0.00
147 Pipe - (424)	64.95	3097.27	3097.15	0.1800	36.000	0.0130	0.6000	0.6000	0.00
148 Pipe - (425)	79.93	3097.15	3097.01	0.1800	36.000	0.0130	0.6000	0.6000	0.00
149 Pipe - (426)	142.22	3097.01	3096.75	0.1800	36.000	0.0130	0.6000	0.6000	0.00
150 Pipe - (427)	107.42	3096.75	3096.55	0.1900	36.000	0.0130	0.6000	0.6000	0.00
151 Pipe - (428)	80.57	3096.55	3096.40	0.1900	36.000	0.0130	0.6000	0.6000	0.00
152 Pipe - (429)	55.21	3096.40	3096.30	0.1800	36.000	0.0130	0.6000	0.6000	0.00
153 Pipe - (430)	109.77	3096.30	3096.10	0.1800	36.000	0.0130	0.6000	0.6000	0.00
154 Pipe - (431)	75.07	3096.11	3095.97	0.1900	36.000	0.0130	0.6000	0.6000	0.00
155 Pipe - (432)	38.61	3095.97	3095.90	0.1800	36.000	0.0130	0.6000	0.6000	0.00
156 Pipe - (434)	58.51	3095.90	3095.78	0.2100	36.000	0.0130	0.6000	0.6000	0.00
157 Pipe - (434) (1)	108.21	3095.78	3095.51	0.2500	36.000	0.0130	0.6000	0.6000	0.00
158 Pipe - (435)	113.18	3095.51	3095.25	0.2300	36.000	0.0130	0.6000	0.6000	0.00
159 Pipe - (436)	163.76	3095.25	3094.87	0.2300	36.000	0.0130	0.6000	0.6000	0.00
160 Pipe - (437)	18.39	3094.87	3094.82	0.2700	36.000	0.0130	0.6000	0.6000	0.00
161 Pipe - (438)	53.75	3094.82	3094.70	0.2200	36.000	0.0130	0.6000	0.6000	0.00
162 Pipe - (439)	19.62	3094.70	3094.65	0.2500	36.000	0.0130	0.6000	0.6000	0.00
163 Pipe - (440)	72.14	3094.65	3094.49	0.2200	36.000	0.0130	0.6000	0.6000	0.00
164 Pipe - (441)	179.23	3094.49	3094.07	0.2300	36.000	0.0130	0.6000	0.6000	0.00

## Pipe Input

SN Element ID	Length	Inlet Invert Elevation (ft)	Outlet Invert Elevation (ft)	Average Slope (%)	Pipe Diameter or Height (in)	Manning's Roughness	Entrance Losses	Exit/Bend Losses	Initial Flow (cfs)
165 Pipe - (442)	71.71	3094.07	3093.91	0.2200	36.000	0.0130	0.6000	0.6000	0.00
166 Pipe - (442) (1)	242.44	3093.91	3093.34	0.2400	36.000	0.0130	0.6000	0.6000	0.00
167 Pipe - (443)	88.84	3093.34	3093.17	0.1900	36.000	0.0130	0.6000	0.6000	0.00
168 Pipe - (444)	136.52	3093.17	3092.81	0.2600	36.000	0.0130	0.6000	0.6000	0.00
169 Pipe - (445)	26.85	3092.81	3092.75	0.2200	36.000	0.0130	0.6000	0.6000	0.00

# Pipe Results

SN Element ID	Peak Flow	Design Flow Capacity	Peak Flow/ Design Flow Ratio	Peak Flow Velocity	Travel Time	Peak Flow Depth	Peak Flow Depth/ Total Depth Ratio	Froude Number	Reported Condition
	(cfs)	(cfs)		(ft/sec)	(min)	(ft)			
1 Pipe - (289)	24.00	35.55	0.68	3.96	0.27	2.11	0.60		Calculated
2 Pipe - (290)	24.00	25.33	0.95	4.07	0.09	2.33	0.78		Calculated
3 Pipe - (291)	24.00	30.68	0.78	4.80	0.03	2.00	0.67		Calculated
4 Pipe - (292)	24.00	26.75	0.90	4.28	0.10	2.22	0.74		Calculated
5 Pipe - (293)	24.00	35.91	0.67	4.00	0.16	2.09	0.60		Calculated
6 Pipe - (294)	24.00	36.81	0.65	4.07	0.21	2.06	0.59		Calculated
7 Pipe - (295)	24.00	25.53	0.94	4.10	0.22	2.31	0.77		Calculated
8 Pipe - (296)	24.00	27.24	0.88	4.35	0.16	2.19	0.73		Calculated
9 Pipe - (297)	24.00	25.01	0.96	4.03	0.35	2.36	0.79		Calculated
10 Pipe - (298)	24.00	25.44	0.94	4.09	0.28	2.32	0.77		Calculated
11 Pipe - (299)	24.00	25.15	0.95	4.05	0.52	2.35	0.78		Calculated
12 Pipe - (300)	24.00	25.88	0.93	4.16	0.59	2.28	0.76		Calculated
13 Pipe - (301)	24.00	25.35	0.95	4.08	1.13	2.33	0.78		Calculated
14 Pipe - (302)	24.00	25.02	0.96	4.03	0.44	2.36	0.79		Calculated
15 Pipe - (303)	24.00	25.85	0.93	4.15	0.40	2.29	0.76		Calculated
16 Pipe - (304)	24.00	35.10	0.68	3.93	0.21	2.13	0.61		Calculated
17 Pipe - (305)	24.00	27.15	0.88	4.33	0.07	2.19	0.73		Calculated
18 Pipe - (306)	24.00	26.16	0.92	4.20	0.10	2.26	0.75		Calculated
19 Pipe - (307)	24.00	26.01	0.92	4.17	0.37	2.27	0.76		Calculated
20 Pipe - (308)	24.00	24.73	0.97	3.98	0.18	2.38	0.79		Calculated
21 Pipe - (309)	24.00	25.28	0.95	4.07	0.43	2.33	0.78		Calculated
22 Pipe - (310)	24.00	25.79	0.93	4.14	0.27	2.29	0.76		Calculated
23 Pipe - (311)	24.00	25.10	0.96	4.04	0.44	2.35	0.78		Calculated
24 Pipe - (311) (1)	24.00	25.74	0.93	4.13	0.27	2.30	0.77		Calculated
25 Pipe - (312)	24.00	24.94	0.96	4.02	0.15	2.37	0.79		Calculated
26 Pipe - (313)	24.00	24.97	0.96	4.02	0.12	2.36	0.79		Calculated
27 Pipe - (314)	24.00	25.93	0.93	4.16	0.56	2.28	0.76		Calculated
28 Pipe - (315)	24.00	34.33	0.70	3.86	0.07	2.16	0.62		Calculated
29 Pipe - (316)	24.00	24.68	0.97	3.98	0.21	2.39	0.80		Calculated
30 Pipe - (317)	24.00	25.99	0.92	4.17	0.11	2.28	0.76		Calculated
31 Pipe - (318)	24.00	25.78	0.93	4.14	0.22	2.29	0.76		Calculated
32 Pipe - (319)	24.00	24.84	0.97	4.00	0.54	2.37	0.79		Calculated
33 Pipe - (320)	24.00	25.51	0.94	4.10	0.06	2.31	0.77		Calculated
34 Pipe - (321)	24.00	24.99	0.96	4.02	0.09	2.36	0.79		Calculated
35 Pipe - (322)	24.00	25.51	0.94	4.10	0.06	2.32	0.77		Calculated
36 Pipe - (323)	24.00	36.55	0.66	4.05	0.22	2.07	0.59		Calculated
37 Pipe - (324)	24.00	35.02	0.69	3.92	0.49	2.13	0.61		Calculated
38 Pipe - (325)	24.00	34.17	0.70	3.84	0.87	2.16	0.62		Calculated
39 Pipe - (326)	24.00	35.40	0.68	3.95	0.17	2.11	0.60		Calculated
40 Pipe - (327)	24.00	28.11	0.85	4.46	0.06	2.13	0.71		Calculated
41 Pipe - (328)	24.00	36.07	0.67	4.01	0.29	2.09	0.60		Calculated
42 Pipe - (329)	24.00	26.07	0.92	4.18	0.08	2.27	0.76		Calculated
43 Pipe - (330)	24.00	25.42	0.94	4.09	0.46	2.32	0.77		Calculated
44 Pipe - (331)	24.00	25.01	0.96	4.03	0.02	2.36	0.79		Calculated
45 Pipe - (331)WoodtoHDPE	24.00	24.62	0.97	3.97	0.37	2.39	0.80		Calculated
46 Pipe - (332)	24.00	31.65	0.76	4.93	0.03	1.95	0.65		Calculated
47 Pipe - (333)	24.00	30.65	0.78	4.80	0.18	2.00	0.67		Calculated
48 Pipe - (334)	24.00	30.58	0.78	4.79	0.02	2.00	0.67		Calculated
49 Pipe - (335)CMPtoHDPE	24.00	30.65	0.78	4.80	0.23	2.00	0.67		Calculated
50 Pipe - (336)CMPtoHDPE	24.00	30.64	0.78	4.80	0.32	2.00	0.67		Calculated
51 Pipe - (337)	24.00	30.29	0.79	4.75	0.01	2.02	0.67		Calculated
52 Pipe - (338)	24.00	30.65	0.78	4.80	0.67	2.00	0.67		Calculated
53 Pipe - (339)	24.00	30.64	0.78	4.80	0.08	2.00	0.67		Calculated
54 Pipe - (340)	24.00	30.69	0.78	4.80	0.11	2.00	0.67		Calculated
55 Pipe - (341)	24.00	30.59	0.78	4.79	0.08	2.00	0.67		Calculated
56 Pipe - (342)	24.00	30.65	0.78	4.80	0.35	2.00	0.67		Calculated
57 Pipe - (343)	24.00	30.64	0.78	4.80	0.58	2.00	0.67		Calculated
58 Pipe - (344)	24.00	36.78	0.65	4.07	0.55	2.06	0.59		Calculated
59 Pipe - (345)	24.00	36.43	0.66	4.04	0.44	2.08	0.59		Calculated
60 Pipe - (346)	24.00	32.87	0.73	5.08	0.03	1.90	0.63		Calculated
61 Pipe - (346)WoodtoHDPE1	24.00	35.31	0.68	5.37	0.11	1.81	0.60		Calculated
62 Pipe - (346)WoodtoHDPE2	24.00	34.90	0.69	5.32	0.35	1.83	0.61		Calculated
63 Pipe - (346)WoodtoHDPE3	24.00	34.98	0.69	5.33	0.06	1.83	0.61		Calculated
64 Pipe - (346)WoodtoHDPE4	24.00	33.67	0.71	5.17	0.07	1.87	0.62		Calculated
65 Pipe - (346)WoodtoHDPE5	24.00	34.49	0.70	3.87	0.03	2.15	0.61		Calculated
66 Pipe - (346)WoodtoHDPE6	24.00	34.90	0.69	3.91	0.26	2.13	0.61		Calculated
67 Pipe - (347)	24.00	27.55	0.87	4.39	0.04	2.17	0.72		Calculated
68 Pipe - (348)	24.00	27.68	0.87	4.41	0.39	2.16	0.72		Calculated
69 Pipe - (349)	24.00	27.58	0.87	4.39	0.15	2.17	0.72		Calculated
70 Pipe - (350)	24.00	27.64	0.87	4.40	0.05	2.16	0.72		Calculated
71 Pipe - (351)	24.00	27.74	0.87	4.41	0.13	2.16	0.72		Calculated
72 Pipe - (352)	24.00	27.60	0.87	4.39	0.12	2.16	0.72		Calculated
73 Pipe - (353)	24.00	28.02	0.86	4.45	0.05	2.14	0.71		Calculated
74 Pipe - (355)	24.00	29.83	0.80	4.69	0.28	2.04	0.68		Calculated
75 Pipe - (357)	24.00	26.12	0.92	4.19	0.49	2.27	0.76		Calculated
76 Pipe - (358)	24.00	27.64	0.87	4.40	0.28	2.16	0.72		Calculated
77 Pipe - (359)	24.00	27.64	0.87	4.40	0.44	2.16	0.72		Calculated
78 Pipe - (360)	24.00	27.69	0.87	4.41	0.23	2.16	0.72		Calculated
79 Pipe - (360)WoodtoHDPE	24.00	39.18	0.61	5.82	0.24	1.70	0.57		Calculated
80 Pipe - (361)	24.00	32.23	0.74	5.00	0.29	1.93	0.64		Calculated
81 Pipe - (362)	24.00	32.21	0.75	5.00	0.28	1.93	0.64		Calculated



## Pipe Results

SN Element ID	Peak Flow	Design Flow Capacity	Peak Flow/Design Flow Ratio	Peak Flow Velocity	Travel Time	Peak Flow Depth	Peak Flow Depth/Total Depth Ratio	Froude Number	Reported Condition
	(cfs)	(cfs)		(ft/sec)	(min)	(ft)			
82 Pipe - (363)	24.00	32.29	0.74	5.00	0.24	1.93	0.64		Calculated
83 Pipe - (364)	24.00	32.23	0.74	5.00	0.08	1.93	0.64		Calculated
84 Pipe - (365)	24.00	32.25	0.74	5.00	0.23	1.93	0.64		Calculated
85 Pipe - (366)	24.00	32.23	0.74	5.00	0.23	1.93	0.64		Calculated
86 Pipe - (367)	24.00	33.45	0.72	5.15	0.32	1.88	0.63		Calculated
87 Pipe - (368)	24.00	26.27	0.91	4.21	0.10	2.26	0.75		Calculated
88 Pipe - (368) (1)	24.00	26.27	0.91	4.21	0.39	2.26	0.75		Calculated
89 Pipe - (369)	24.00	25.66	0.94	4.12	0.77	2.30	0.77		Calculated
90 Pipe - (370)	24.00	26.29	0.91	4.21	0.25	2.25	0.75		Calculated
91 Pipe - (371)	24.00	25.84	0.93	4.15	0.46	2.29	0.76		Calculated
92 Pipe - (372)	24.00	26.13	0.92	4.19	0.60	2.27	0.76		Calculated
93 Pipe - (374)	24.00	26.88	0.89	4.30	0.19	2.21	0.74		Calculated
94 Pipe - (375)	24.00	25.35	0.95	4.08	0.31	2.33	0.78		Calculated
95 Pipe - (376)	24.00	26.01	0.92	4.17	0.21	2.27	0.76		Calculated
96 Pipe - (377)	24.00	26.16	0.92	4.20	0.54	2.26	0.75		Calculated
97 Pipe - (378)	24.00	26.14	0.92	4.19	0.08	2.26	0.75		Calculated
98 Pipe - (378) (1)	24.00	26.28	0.91	4.21	0.51	2.25	0.75		Calculated
99 Pipe - (379)	24.00	25.12	0.96	4.04	0.20	2.35	0.78		Calculated
100 Pipe - (380)	24.00	27.96	0.86	4.44	0.06	2.14	0.71		Calculated
101 Pipe - (381)	24.00	25.73	0.93	4.13	0.11	2.30	0.77		Calculated
102 Pipe - (382)	24.00	25.08	0.96	4.04	0.20	2.35	0.78		Calculated
103 Pipe - (383)	24.00	25.36	0.95	4.08	0.17	2.33	0.78		Calculated
104 Pipe - (384)	24.00	29.07	0.83	4.59	0.04	2.08	0.69		Calculated
105 Pipe - (385)	24.00	25.51	0.94	4.10	0.06	2.32	0.77		Calculated
106 Pipe - (386)	24.00	27.27	0.88	4.35	0.18	2.19	0.73		Calculated
107 Pipe - (387)	24.00	26.03	0.92	4.18	1.41	2.27	0.76		Calculated
108 Pipe - (388)	24.00	25.94	0.93	4.16	1.05	2.28	0.76		Calculated
109 Pipe - (388) (1)	24.00	25.90	0.93	4.16	0.15	2.28	0.76		Calculated
110 Pipe - (389)	24.00	32.64	0.74	5.05	0.07	1.91	0.64		Calculated
111 Pipe - (390)	24.00	35.10	0.68	5.34	0.12	1.82	0.61		Calculated
112 Pipe - (391)	24.00	34.29	0.70	5.25	0.78	1.85	0.62		Calculated
113 Pipe - (392)	24.00	33.44	0.72	5.14	0.05	1.88	0.63		Calculated
114 Pipe - (393)	24.00	33.80	0.71	5.19	0.11	1.87	0.62		Calculated
115 Pipe - (394)	24.00	34.32	0.70	5.25	0.16	1.85	0.62		Calculated
116 Pipe - (395)	24.00	34.18	0.70	5.23	0.23	1.85	0.62		Calculated
117 Pipe - (396)	24.00	34.89	0.69	5.32	0.29	1.83	0.61		Calculated
118 Pipe - (396) (1)	24.00	31.51	0.76	4.91	0.08	1.96	0.65		Calculated
119 Pipe - (397)	24.00	29.72	0.81	4.68	0.33	2.04	0.68		Calculated
120 Pipe - (398)	24.00	30.22	0.79	4.74	0.10	2.02	0.67		Calculated
121 Pipe - (399)	24.00	30.18	0.80	4.74	0.85	2.02	0.67		Calculated
122 Pipe - (400)	24.00	30.14	0.80	4.73	0.36	2.02	0.67		Calculated
123 Pipe - (401)	24.00	30.14	0.80	4.73	0.23	2.02	0.67		Calculated
124 Pipe - (402)	24.00	30.18	0.80	4.74	0.50	2.02	0.67		Calculated
125 Pipe - (403)	24.00	30.17	0.80	4.74	0.66	2.02	0.67		Calculated
126 Pipe - (404)	24.00	30.16	0.80	4.74	0.57	2.02	0.67		Calculated
127 Pipe - (405)	24.00	30.18	0.80	4.74	0.57	2.02	0.67		Calculated
128 Pipe - (406)	24.00	30.17	0.80	4.74	0.27	2.02	0.67		Calculated
129 Pipe - (407)	24.00	30.13	0.80	4.73	0.37	2.02	0.67		Calculated
130 Pipe - (407) (1)	24.00	28.60	0.84	4.53	0.28	2.10	0.70		Calculated
131 Pipe - (408)	24.00	28.63	0.84	4.53	0.24	2.10	0.70		Calculated
132 Pipe - (409)	24.00	27.79	0.86	4.42	0.20	2.15	0.72		Calculated
133 Pipe - (410)	24.00	28.95	0.83	4.58	0.17	2.09	0.70		Calculated
134 Pipe - (411)	24.00	28.50	0.84	4.52	0.86	2.11	0.70		Calculated
135 Pipe - (412)	24.00	28.51	0.84	4.52	0.62	2.11	0.70		Calculated
136 Pipe - (413)	24.00	28.45	0.84	4.51	0.05	2.11	0.70		Calculated
137 Pipe - (414)	24.00	28.47	0.84	4.51	0.11	2.11	0.70		Calculated
138 Pipe - (415)	24.00	28.64	0.84	4.54	0.05	2.10	0.70		Calculated
139 Pipe - (416)	24.00	28.47	0.84	4.51	0.15	2.11	0.70		Calculated
140 Pipe - (417)	24.00	28.51	0.84	4.52	0.29	2.11	0.70		Calculated
141 Pipe - (418)	24.00	27.41	0.88	4.37	0.44	2.18	0.73		Calculated
142 Pipe - (419)	24.00	29.46	0.81	4.64	0.06	2.06	0.69		Calculated
143 Pipe - (420)	24.00	29.45	0.82	4.64	0.41	2.06	0.69		Calculated
144 Pipe - (421)	24.00	28.86	0.83	4.56	0.33	2.09	0.70		Calculated
145 Pipe - (422)	24.00	28.22	0.85	4.48	0.35	2.13	0.71		Calculated
146 Pipe - (423)	24.00	28.49	0.84	4.52	0.14	2.11	0.70		Calculated
147 Pipe - (424)	24.00	28.67	0.84	4.54	0.24	2.10	0.70		Calculated
148 Pipe - (425)	24.00	27.91	0.86	4.44	0.30	2.15	0.72		Calculated
149 Pipe - (426)	24.00	28.52	0.84	4.52	0.52	2.11	0.70		Calculated
150 Pipe - (427)	24.00	28.78	0.83	4.55	0.39	2.09	0.70		Calculated
151 Pipe - (428)	24.00	28.78	0.83	4.55	0.30	2.09	0.70		Calculated
152 Pipe - (429)	24.00	28.39	0.85	4.50	0.20	2.12	0.71		Calculated
153 Pipe - (430)	24.00	27.75	0.86	4.42	0.41	2.16	0.72		Calculated
154 Pipe - (431)	24.00	28.80	0.83	4.56	0.27	2.09	0.70		Calculated
155 Pipe - (432)	24.00	28.40	0.85	4.50	0.14	2.12	0.71		Calculated
156 Pipe - (434)	24.00	30.33	0.79	4.76	0.20	2.01	0.67		Calculated
157 Pipe - (434) (1)	24.00	33.26	0.72	5.12	0.35	1.89	0.63		Calculated
158 Pipe - (435)	24.00	31.97	0.75	4.96	0.38	1.94	0.65		Calculated
159 Pipe - (436)	24.00	32.13	0.75	4.98	0.55	1.93	0.64		Calculated
160 Pipe - (437)	24.00	34.78	0.69	5.30	0.06	1.83	0.61		Calculated
161 Pipe - (438)	24.00	31.51	0.76	4.91	0.18	1.96	0.65		Calculated
162 Pipe - (439)	24.00	33.67	0.71	5.17	0.06	1.87	0.62		Calculated

## Pipe Results

SN Element ID	Peak Flow	Design Flow Capacity	Peak Flow/ Design Flow Ratio	Peak Flow Velocity	Travel Time	Peak Flow Depth	Peak Flow Depth/ Total Depth Ratio	Froude Number	Reported Condition
	(cfs)	(cfs)		(ft/sec)	(min)	(ft)			
163 Pipe - (440)	24.00	31.41	0.76	4.89	0.25	1.96	0.65		Calculated
164 Pipe - (441)	24.00	32.29	0.74	5.00	0.60	1.93	0.64		Calculated
165 Pipe - (442)	24.00	31.44	0.76	4.90	0.24	1.96	0.65		Calculated
166 Pipe - (442) (1)	24.00	32.36	0.74	5.01	0.81	1.92	0.64		Calculated
167 Pipe - (443)	24.00	29.18	0.82	4.61	0.32	2.07	0.69		Calculated
168 Pipe - (444)	24.00	34.25	0.70	5.24	0.43	1.85	0.62		Calculated
169 Pipe - (445)	24.00	31.53	0.76	4.91	0.09	1.96	0.65		Calculated

## Project Description

File Name ..... Section4-0.013.SPF

## Number of Elements

	Qty
Rain Gages .....	0
Subbasins.....	0
Nodes.....	26
<i>Junctions</i> .....	25
<i>Outfalls</i> .....	1
<i>Flow Diversions</i> .....	0
<i>Inlets</i> .....	0
<i>Storage Nodes</i> .....	0
Links.....	25
<i>Channels</i> .....	0
<i>Pipes</i> .....	25
<i>Pumps</i> .....	0
<i>Orifices</i> .....	0
<i>Weirs</i> .....	0
<i>Outlets</i> .....	0
Pollutants .....	0
Land Uses .....	0

## Node Summary

SN	Element ID	Element Type	Invert Elevation	Ground/Rim (Max) Elevation	Initial Water Elevation	Surcharge Elevation	Peak Inflow	Max HGL Elevation Attained
			(ft)	(ft)	(ft)	(ft)	(cfs)	(ft)
1	Structure - (462)-CascadeFall	Junction	2863.15	2866.41	2863.15	2866.41	24.00	2864.80
2	Structure - (463)	Junction	2862.99	2866.25	2862.99	2866.25	24.00	2864.64
3	Structure - (464)	Junction	2862.88	2866.14	2862.88	2866.14	24.00	2864.53
4	Structure - (465)	Junction	2862.62	2865.87	2862.62	2865.87	24.00	2864.26
5	Structure - (466)	Junction	2862.11	2865.37	2862.11	2865.37	24.00	2863.76
6	Structure - (467)	Junction	2861.96	2865.22	2861.96	2865.22	24.00	2863.61
7	Structure - (468)	Junction	2861.30	2864.55	2861.30	2864.55	24.00	2862.94
8	Structure - (469)	Junction	2861.04	2864.30	2861.04	2864.30	24.00	2862.69
9	Structure - (470)	Junction	2860.14	2863.39	2860.14	2863.39	24.00	2861.78
10	Structure - (471)	Junction	2859.86	2863.12	2859.86	2863.12	24.00	2861.51
11	Structure - (472)	Junction	2859.78	2863.04	2859.78	2863.04	24.00	2861.43
12	Structure - (473)	Junction	2859.64	2862.89	2859.64	2862.89	24.00	2861.29
13	Structure - (474)	Junction	2859.58	2862.84	2859.58	2862.84	24.00	2861.24
14	Structure - (475)-AP	Junction	2859.44	2862.70	2859.44	2862.70	24.00	2861.26
15	Structure - (476)	Junction	2859.22	2862.48	2859.22	2862.48	24.00	2861.04
16	Structure - (477)	Junction	2858.82	2862.08	2858.82	2862.08	24.00	2860.64
17	Structure - (478)	Junction	2858.17	2861.43	2858.17	2861.43	24.00	2859.99
18	Structure - (479)	Junction	2858.03	2861.29	2858.03	2861.29	24.00	2859.85
19	Structure - (480)	Junction	2857.98	2861.24	2857.98	2861.24	24.00	2859.80
20	Structure - (481)	Junction	2856.96	2860.22	2856.96	2860.22	24.00	2858.78
21	Structure - (481)-AP	Junction	2856.64	2859.89	2856.64	2859.89	24.00	2858.57
22	Structure - (482)	Junction	2856.54	2859.80	2856.54	2859.80	24.00	2858.48
23	Structure - (483)	Junction	2856.26	2859.51	2856.26	2859.51	24.00	2858.19
24	Structure - (484)	Junction	2856.23	2859.48	2856.23	2859.48	24.00	2858.16
25	Structure - (485)	Junction	2855.84	2859.10	2855.84	2859.10	24.00	2857.78
26	Out-1Pipe - (CostaCreekSiphon)	Outfall	2855.60				24.00	2857.53

## 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 (in)	Manning's Roughness	Peak Flow (cfs)	Design Flow Capacity (cfs)	Peak Flow Velocity (ft/sec)	Peak Flow Reported Depth (ft)	Reported Condition
1 Pipe - (448)	Pipe	Structure - (462)-CascadeFall	Structure - (463)	41.63	2863.15	2862.99	0.3800	36.000	0.0130	24.00	41.13	6.04	1.65	Calculated
2 Pipe - (449)	Pipe	Structure - (463)	Structure - (464)	28.77	2862.99	2862.88	0.3800	36.000	0.0130	24.00	41.21	6.05	1.64	Calculated
3 Pipe - (450)	Pipe	Structure - (464)	Structure - (465)	69.61	2862.88	2862.62	0.3800	36.000	0.0130	24.00	41.10	6.04	1.65	Calculated
4 Pipe - (451)	Pipe	Structure - (465)	Structure - (466)	132.43	2862.62	2862.11	0.3800	36.000	0.0130	24.00	41.14	6.04	1.65	Calculated
5 Pipe - (452)	Pipe	Structure - (466)	Structure - (467)	40.41	2862.11	2861.96	0.3800	36.000	0.0130	24.00	41.10	6.04	1.65	Calculated
6 Pipe - (453)	Pipe	Structure - (467)	Structure - (468)	174.38	2861.96	2861.30	0.3800	36.000	0.0130	24.00	41.14	6.04	1.65	Calculated
7 Pipe - (454)	Pipe	Structure - (468)	Structure - (469)	67.00	2861.30	2861.04	0.3800	36.000	0.0130	24.00	41.16	6.04	1.65	Calculated
8 Pipe - (455)	Pipe	Structure - (469)	Structure - (470)	237.92	2861.04	2860.14	0.3800	36.000	0.0130	24.00	41.14	6.04	1.65	Calculated
9 Pipe - (456)	Pipe	Structure - (470)	Structure - (471)	71.34	2860.14	2859.86	0.3800	36.000	0.0130	24.00	41.17	6.04	1.65	Calculated
10 Pipe - (457)	Pipe	Structure - (471)	Structure - (472)	21.67	2859.86	2859.78	0.3900	36.000	0.0130	24.00	41.54	6.08	1.64	Calculated
11 Pipe - (458)	Pipe	Structure - (472)	Structure - (473)	37.44	2859.78	2859.64	0.3800	36.000	0.0130	24.00	41.12	6.04	1.65	Calculated
12 Pipe - (459)	Pipe	Structure - (473)	Structure - (474)	13.67	2859.64	2859.58	0.4000	36.000	0.0130	24.00	42.01	6.14	1.63	Calculated
13 Pipe - (460)	Pipe	Structure - (474)	Structure - (475)-AP	37.67	2859.58	2859.44	0.3800	36.000	0.0130	24.00	40.89	6.01	1.65	Calculated
14 Pipe - (461)	Pipe	Structure - (475)-AP	Structure - (476)	78.98	2859.44	2859.22	0.2800	36.000	0.0130	24.00	35.32	5.37	1.81	Calculated
15 Pipe - (462)	Pipe	Structure - (476)	Structure - (477)	142.30	2859.22	2858.82	0.2800	36.000	0.0130	24.00	35.35	5.37	1.81	Calculated
16 Pipe - (463)	Pipe	Structure - (477)	Structure - (478)	231.26	2858.82	2858.17	0.2800	36.000	0.0130	24.00	35.33	5.37	1.81	Calculated
17 Pipe - (464)	Pipe	Structure - (478)	Structure - (479)	50.46	2858.17	2858.03	0.2800	36.000	0.0130	24.00	35.35	5.37	1.81	Calculated
18 Pipe - (465)	Pipe	Structure - (479)	Structure - (480)	18.33	2858.03	2857.98	0.2800	36.000	0.0130	24.00	35.22	5.36	1.82	Calculated
19 Pipe - (466)	Pipe	Structure - (480)	Structure - (481)	362.41	2857.98	2856.96	0.2800	36.000	0.0130	24.00	35.35	5.37	1.81	Calculated
20 Pipe - (467)	Pipe	Structure - (481)	Structure - (481)-AP	116.21	2856.96	2856.64	0.2800	36.000	0.0130	24.00	35.29	5.37	1.82	Calculated
21 Pipe - (467) (1)	Pipe	Structure - (481)-AP	Structure - (482)	40.72	2856.64	2856.54	0.2300	36.000	0.0130	24.00	32.00	4.97	1.94	Calculated
22 Pipe - (468)	Pipe	Structure - (482)	Structure - (483)	122.47	2856.54	2856.26	0.2300	36.000	0.0130	24.00	32.10	4.98	1.93	Calculated
23 Pipe - (469)	Pipe	Structure - (483)	Structure - (484)	13.71	2856.26	2856.23	0.2400	36.000	0.0130	24.00	32.83	5.07	1.91	Calculated
24 Pipe - (470)	Pipe	Structure - (484)	Structure - (485)	164.79	2856.23	2855.84	0.2300	36.000	0.0130	24.00	32.08	4.98	1.94	Calculated
25 Pipe - (471)	Pipe	Structure - (485)	Out-1Pipe - (CostaCreekSiphon)	107.74	2855.84	2855.60	0.2300	36.000	0.0130	24.00	32.02	4.97	1.94	Calculated

## Junction Input

SN	Element ID	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Initial Water Elevation (ft)	Initial Water Depth (ft)	Surcharge Elevation (ft)	Surcharge Depth (ft)	Ponded Area (ft <sup>2</sup> )	Minimum Pipe Cover (in)
1	Structure - (462)-CascadeFall	2863.15	2866.41	3.26	2863.15	0.00	2866.41	0.00	0.00	0.00
2	Structure - (463)	2862.99	2866.25	3.26	2862.99	0.00	2866.25	0.00	0.00	0.00
3	Structure - (464)	2862.88	2866.14	3.26	2862.88	0.00	2866.14	0.00	0.00	0.00
4	Structure - (465)	2862.62	2865.87	3.26	2862.62	0.00	2865.87	0.00	0.00	0.00
5	Structure - (466)	2862.11	2865.37	3.26	2862.11	0.00	2865.37	0.00	0.00	0.00
6	Structure - (467)	2861.96	2865.22	3.26	2861.96	0.00	2865.22	0.00	0.00	0.00
7	Structure - (468)	2861.30	2864.55	3.26	2861.30	0.00	2864.55	0.00	0.00	0.00
8	Structure - (469)	2861.04	2864.30	3.26	2861.04	0.00	2864.30	0.00	0.00	0.00
9	Structure - (470)	2860.14	2863.39	3.26	2860.14	0.00	2863.39	0.00	0.00	0.00
10	Structure - (471)	2859.86	2863.12	3.26	2859.86	0.00	2863.12	0.00	0.00	0.00
11	Structure - (472)	2859.78	2863.04	3.26	2859.78	0.00	2863.04	0.00	0.00	0.00
12	Structure - (473)	2859.64	2862.89	3.26	2859.64	0.00	2862.89	0.00	0.00	0.00
13	Structure - (474)	2859.58	2862.84	3.26	2859.58	0.00	2862.84	0.00	0.00	0.00
14	Structure - (475)-AP	2859.44	2862.70	3.26	2859.44	0.00	2862.70	0.00	0.00	0.00
15	Structure - (476)	2859.22	2862.48	3.26	2859.22	0.00	2862.48	0.00	0.00	0.00
16	Structure - (477)	2858.82	2862.08	3.26	2858.82	0.00	2862.08	0.00	0.00	0.00
17	Structure - (478)	2858.17	2861.43	3.26	2858.17	0.00	2861.43	0.00	0.00	0.00
18	Structure - (479)	2858.03	2861.29	3.26	2858.03	0.00	2861.29	0.00	0.00	0.00
19	Structure - (480)	2857.98	2861.24	3.26	2857.98	0.00	2861.24	0.00	0.00	0.00
20	Structure - (481)	2856.96	2860.22	3.26	2856.96	0.00	2860.22	0.00	0.00	0.00
21	Structure - (481)-AP	2856.64	2859.89	3.26	2856.64	0.00	2859.89	0.00	0.00	0.00
22	Structure - (482)	2856.54	2859.80	3.26	2856.54	0.00	2859.80	0.00	0.00	0.00
23	Structure - (483)	2856.26	2859.51	3.26	2856.26	0.00	2859.51	0.00	0.00	0.00
24	Structure - (484)	2856.23	2859.48	3.26	2856.23	0.00	2859.48	0.00	0.00	0.00
25	Structure - (485)	2855.84	2859.10	3.26	2855.84	0.00	2859.10	0.00	0.00	0.00

## Junction Results

SN Element ID	Peak Inflow	Max HGL Elevation Attained	Max HGL Depth Attained	Max Surcharge Depth Attained	Min Freeboard Attained	Average HGL Elevation Attained	Average HGL Depth Attained	Total Flooded Volume
	(cfs)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ac-in)
1 Structure - (462)-CascadeFall	24.00	2864.80	1.65	0.00	1.61	2864.80	1.65	0.00
2 Structure - (463)	24.00	2864.64	1.65	0.00	1.61	2864.64	1.65	0.00
3 Structure - (464)	24.00	2864.53	1.65	0.00	1.61	2864.53	1.65	0.00
4 Structure - (465)	24.00	2864.26	1.64	0.00	1.61	2864.26	1.64	0.00
5 Structure - (466)	24.00	2863.76	1.65	0.00	1.61	2863.76	1.65	0.00
6 Structure - (467)	24.00	2863.61	1.65	0.00	1.61	2863.61	1.65	0.00
7 Structure - (468)	24.00	2862.94	1.64	0.00	1.61	2862.94	1.64	0.00
8 Structure - (469)	24.00	2862.69	1.65	0.00	1.61	2862.69	1.65	0.00
9 Structure - (470)	24.00	2861.78	1.64	0.00	1.61	2861.78	1.64	0.00
10 Structure - (471)	24.00	2861.51	1.65	0.00	1.61	2861.51	1.65	0.00
11 Structure - (472)	24.00	2861.43	1.65	0.00	1.61	2861.43	1.65	0.00
12 Structure - (473)	24.00	2861.29	1.65	0.00	1.61	2861.29	1.65	0.00
13 Structure - (474)	24.00	2861.24	1.66	0.00	1.60	2861.24	1.66	0.00
14 Structure - (475)-AP	24.00	2861.26	1.82	0.00	1.44	2861.26	1.82	0.00
15 Structure - (476)	24.00	2861.04	1.82	0.00	1.44	2861.04	1.82	0.00
16 Structure - (477)	24.00	2860.64	1.82	0.00	1.44	2860.64	1.82	0.00
17 Structure - (478)	24.00	2859.99	1.82	0.00	1.44	2859.99	1.82	0.00
18 Structure - (479)	24.00	2859.85	1.82	0.00	1.44	2859.85	1.82	0.00
19 Structure - (480)	24.00	2859.80	1.82	0.00	1.44	2859.80	1.82	0.00
20 Structure - (481)	24.00	2858.78	1.82	0.00	1.44	2858.78	1.82	0.00
21 Structure - (481)-AP	24.00	2858.57	1.93	0.00	1.32	2858.57	1.93	0.00
22 Structure - (482)	24.00	2858.48	1.94	0.00	1.32	2858.48	1.94	0.00
23 Structure - (483)	24.00	2858.19	1.93	0.00	1.32	2858.19	1.93	0.00
24 Structure - (484)	24.00	2858.16	1.93	0.00	1.32	2858.16	1.93	0.00
25 Structure - (485)	24.00	2857.78	1.94	0.00	1.32	2857.78	1.94	0.00

# Pipe Input

SN	Element ID	Length (ft)	Inlet Invert Elevation (ft)	Outlet Invert Elevation (ft)	Average Slope (%)	Pipe Diameter or Height (in)	Manning's Roughness	Entrance Losses	Exit/Bend Losses	Initial Flow (cfs)
1	Pipe - (448)	41.63	2863.15	2862.99	0.3800	36.000	0.0130	0.6000	0.6000	0.00
2	Pipe - (449)	28.77	2862.99	2862.88	0.3800	36.000	0.0130	0.6000	0.6000	0.00
3	Pipe - (450)	69.61	2862.88	2862.62	0.3800	36.000	0.0130	0.6000	0.6000	0.00
4	Pipe - (451)	132.43	2862.62	2862.11	0.3800	36.000	0.0130	0.6000	0.6000	0.00
5	Pipe - (452)	40.41	2862.11	2861.96	0.3800	36.000	0.0130	0.6000	0.6000	0.00
6	Pipe - (453)	174.38	2861.96	2861.30	0.3800	36.000	0.0130	0.6000	0.6000	0.00
7	Pipe - (454)	67.00	2861.30	2861.04	0.3800	36.000	0.0130	0.6000	0.6000	0.00
8	Pipe - (455)	237.92	2861.04	2860.14	0.3800	36.000	0.0130	0.6000	0.6000	0.00
9	Pipe - (456)	71.34	2860.14	2859.86	0.3800	36.000	0.0130	0.6000	0.6000	0.00
10	Pipe - (457)	21.67	2859.86	2859.78	0.3900	36.000	0.0130	0.6000	0.6000	0.00
11	Pipe - (458)	37.44	2859.78	2859.64	0.3800	36.000	0.0130	0.6000	0.6000	0.00
12	Pipe - (459)	13.67	2859.64	2859.58	0.4000	36.000	0.0130	0.6000	0.6000	0.00
13	Pipe - (460)	37.67	2859.58	2859.44	0.3800	36.000	0.0130	0.6000	0.6000	0.00
14	Pipe - (461)	78.98	2859.44	2859.22	0.2800	36.000	0.0130	0.6000	0.6000	0.00
15	Pipe - (462)	142.30	2859.22	2858.82	0.2800	36.000	0.0130	0.6000	0.6000	0.00
16	Pipe - (463)	231.26	2858.82	2858.17	0.2800	36.000	0.0130	0.6000	0.6000	0.00
17	Pipe - (464)	50.46	2858.17	2858.03	0.2800	36.000	0.0130	0.6000	0.6000	0.00
18	Pipe - (465)	18.33	2858.03	2857.98	0.2800	36.000	0.0130	0.6000	0.6000	0.00
19	Pipe - (466)	362.41	2857.98	2856.96	0.2800	36.000	0.0130	0.6000	0.6000	0.00
20	Pipe - (467)	116.21	2856.96	2856.64	0.2800	36.000	0.0130	0.6000	0.6000	0.00
21	Pipe - (467) (1)	40.72	2856.64	2856.54	0.2300	36.000	0.0130	0.6000	0.6000	0.00
22	Pipe - (468)	122.47	2856.54	2856.26	0.2300	36.000	0.0130	0.6000	0.6000	0.00
23	Pipe - (469)	13.71	2856.26	2856.23	0.2400	36.000	0.0130	0.6000	0.6000	0.00
24	Pipe - (470)	164.79	2856.23	2855.84	0.2300	36.000	0.0130	0.6000	0.6000	0.00
25	Pipe - (471)	107.74	2855.84	2855.60	0.2300	36.000	0.0130	0.6000	0.6000	0.00



## Pipe Results

SN Element ID	Peak Flow	Design Flow Capacity	Peak Flow/ Design Flow Ratio	Peak Flow Velocity	Travel Time	Peak Flow Depth	Peak Flow Depth/ Total Depth Ratio	Froude Number	Reported Condition
	(cfs)	(cfs)		(ft/sec)	(min)	(ft)			
1 Pipe - (448)	24.00	41.13	0.58	6.04	0.11	1.65	0.55		Calculated
2 Pipe - (449)	24.00	41.21	0.58	6.05	0.08	1.64	0.55		Calculated
3 Pipe - (450)	24.00	41.10	0.58	6.04	0.19	1.65	0.55		Calculated
4 Pipe - (451)	24.00	41.14	0.58	6.04	0.37	1.65	0.55		Calculated
5 Pipe - (452)	24.00	41.10	0.58	6.04	0.11	1.65	0.55		Calculated
6 Pipe - (453)	24.00	41.14	0.58	6.04	0.48	1.65	0.55		Calculated
7 Pipe - (454)	24.00	41.16	0.58	6.04	0.18	1.65	0.55		Calculated
8 Pipe - (455)	24.00	41.14	0.58	6.04	0.66	1.65	0.55		Calculated
9 Pipe - (456)	24.00	41.17	0.58	6.04	0.20	1.65	0.55		Calculated
10 Pipe - (457)	24.00	41.54	0.58	6.08	0.06	1.64	0.55		Calculated
11 Pipe - (458)	24.00	41.12	0.58	6.04	0.10	1.65	0.55		Calculated
12 Pipe - (459)	24.00	42.01	0.57	6.14	0.04	1.63	0.54		Calculated
13 Pipe - (460)	24.00	40.89	0.59	6.01	0.10	1.65	0.55		Calculated
14 Pipe - (461)	24.00	35.32	0.68	5.37	0.25	1.81	0.60		Calculated
15 Pipe - (462)	24.00	35.35	0.68	5.37	0.44	1.81	0.60		Calculated
16 Pipe - (463)	24.00	35.33	0.68	5.37	0.72	1.81	0.60		Calculated
17 Pipe - (464)	24.00	35.35	0.68	5.37	0.16	1.81	0.60		Calculated
18 Pipe - (465)	24.00	35.22	0.68	5.36	0.06	1.82	0.61		Calculated
19 Pipe - (466)	24.00	35.35	0.68	5.37	1.12	1.81	0.60		Calculated
20 Pipe - (467)	24.00	35.29	0.68	5.37	0.36	1.82	0.61		Calculated
21 Pipe - (467) (1)	24.00	32.00	0.75	4.97	0.14	1.94	0.65		Calculated
22 Pipe - (468)	24.00	32.10	0.75	4.98	0.41	1.93	0.64		Calculated
23 Pipe - (469)	24.00	32.83	0.73	5.07	0.05	1.91	0.64		Calculated
24 Pipe - (470)	24.00	32.08	0.75	4.98	0.55	1.94	0.65		Calculated
25 Pipe - (471)	24.00	32.02	0.75	4.97	0.36	1.94	0.65		Calculated

## Project Description

File Name ..... Section5-0.013 (42inchSegment).SPF

## Number of Elements

	Qty
Rain Gages .....	0
Subbasins.....	0
Nodes.....	51
<i>Junctions</i> .....	50
<i>Outfalls</i> .....	1
<i>Flow Diversions</i> .....	0
<i>Inlets</i> .....	0
<i>Storage Nodes</i> .....	0
Links.....	50
<i>Channels</i> .....	0
<i>Pipes</i> .....	50
<i>Pumps</i> .....	0
<i>Orifices</i> .....	0
<i>Weirs</i> .....	0
<i>Outlets</i> .....	0
Pollutants .....	0
Land Uses .....	0

## Node Summary

SN	Element ID	Element Type	Invert Elevation	Ground/Rim (Max) Elevation	Initial Water Elevation	Surcharge Elevation	Peak Inflow	Max HGL Elevation Attained
			(ft)	(ft)	(ft)	(ft)	(cfs)	(ft)
1	Structure - (488)-CostaCreekSiphonOutlet	Junction	2782.10	2785.10	2782.10	2785.10	24.00	2784.11
2	Structure - (489)	Junction	2782.00	2785.00	2782.00	2785.00	24.00	2784.01
3	Structure - (490)	Junction	2781.95	2785.95	2781.95	2785.95	24.00	2785.19
4	Structure - (491)	Junction	2781.89	2786.22	2781.89	2786.22	24.00	2785.13
5	Structure - (492)	Junction	2781.88	2785.14	2781.88	2785.14	24.00	2783.95
6	Structure - (493)	Junction	2781.84	2785.09	2781.84	2785.09	24.00	2783.91
7	Structure - (494)	Junction	2781.70	2784.96	2781.70	2784.96	24.00	2783.78
8	Structure - (495)	Junction	2781.61	2784.87	2781.61	2784.87	24.00	2783.68
9	Structure - (496)	Junction	2781.47	2784.72	2781.47	2784.72	24.00	2783.54
10	Structure - (497)	Junction	2781.35	2785.68	2781.35	2785.68	24.00	2783.42
11	Structure - (498)	Junction	2781.33	2785.66	2781.33	2785.66	24.00	2783.40
12	Structure - (499)	Junction	2781.26	2784.52	2781.26	2784.52	24.00	2783.33
13	Structure - (500)	Junction	2781.05	2785.60	2781.05	2785.60	24.00	2783.12
14	Structure - (501)	Junction	2781.01	2784.27	2781.01	2784.27	24.00	2783.12
15	Structure - (502)	Junction	2780.94	2784.19	2780.94	2784.19	24.00	2783.01
16	Structure - (503)	Junction	2780.92	2784.18	2780.92	2784.18	24.00	2782.99
17	Structure - (504)	Junction	2780.81	2784.07	2780.81	2784.07	24.00	2782.88
18	Structure - (505)	Junction	2780.75	2784.00	2780.75	2784.00	24.00	2782.83
19	Structure - (506)	Junction	2780.59	2783.84	2780.59	2783.84	24.00	2782.67
20	Structure - (507)	Junction	2780.49	2783.75	2780.49	2783.75	24.00	2782.64
21	Structure - (508)	Junction	2780.46	2783.72	2780.46	2783.72	24.00	2782.53
22	Structure - (509)	Junction	2780.29	2783.55	2780.29	2783.55	24.00	2782.36
23	Structure - (510)	Junction	2779.99	2783.24	2779.99	2783.24	24.00	2782.06
24	Structure - (511)	Junction	2779.79	2783.05	2779.79	2783.05	24.00	2781.87
25	Structure - (512)AP	Junction	2779.71	2784.20	2779.71	2784.20	24.00	2781.78
26	Structure - (513)	Junction	2779.49	2782.75	2779.49	2782.75	24.00	2781.56
27	Structure - (514)	Junction	2779.29	2782.55	2779.29	2782.55	24.00	2781.36
28	Structure - (515)	Junction	2779.12	2782.38	2779.12	2782.38	24.00	2781.19
29	Structure - (516)	Junction	2778.85	2782.10	2778.85	2782.10	24.00	2780.92
30	Structure - (517)	Junction	2778.73	2781.98	2778.73	2781.98	24.00	2780.80
31	Structure - (518)	Junction	2778.64	2781.90	2778.64	2781.90	24.00	2780.71
32	Structure - (519)	Junction	2778.63	2781.88	2778.63	2781.88	24.00	2780.70
33	Structure - (520)	Junction	2778.60	2781.86	2778.60	2781.86	24.00	2780.67
34	Structure - (520)AP	Junction	2778.38	2782.90	2778.38	2782.90	24.00	2780.45
35	Structure - (521)	Junction	2778.28	2781.54	2778.28	2781.54	24.00	2780.35
36	Structure - (522)	Junction	2777.94	2781.20	2777.94	2781.20	24.00	2780.01
37	Structure - (523)	Junction	2777.79	2781.04	2777.79	2781.04	24.00	2779.86
38	Structure - (524)	Junction	2777.73	2780.99	2777.73	2780.99	24.00	2779.80
39	Structure - (525)	Junction	2777.71	2780.97	2777.71	2780.97	24.00	2779.78
40	Structure - (526)	Junction	2777.65	2780.90	2777.65	2780.90	24.00	2779.72
41	Structure - (527)	Junction	2777.63	2780.89	2777.63	2780.89	24.00	2779.70
42	Structure - (528)	Junction	2777.58	2780.84	2777.58	2780.84	24.00	2779.65
43	Structure - (529)	Junction	2777.50	2780.75	2777.50	2780.75	24.00	2779.57
44	Structure - (530)	Junction	2777.43	2780.69	2777.43	2780.69	24.00	2779.50
45	Structure - (531)	Junction	2777.34	2780.60	2777.34	2780.60	24.00	2779.41
46	Structure - (532)	Junction	2777.32	2780.57	2777.32	2780.57	24.00	2779.38
47	Structure - (533)	Junction	2777.11	2780.11	2777.11	2780.11	24.00	2779.25
48	Structure - (537)	Junction	2780.49	2783.74	2780.49	2783.74	24.00	2782.64
49	Structure - (538)	Junction	2781.02	2785.35	2781.02	2785.35	24.00	2783.13
50	Structure - (539)AP	Junction	2781.04	2785.37	2781.04	2785.37	24.00	2783.11
51	Out-BeehiveSiphonInlet	Outfall	2777.06				24.00	2779.20

## 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 (in)	Manning's Roughness	Peak Flow (cfs)	Design Flow Capacity (cfs)	Peak Flow Velocity (ft/sec)	Peak Flow Reported Depth (ft)	Condition
1 Pipe - (472)ExCMPtoRemain	Pipe	Structure - (488)-CostaCreekSiphonOutlet	Structure - (489)	90.99	2782.10	2782.00	0.1100	48.000	0.0130	24.00	47.62	3.80	2.01	Calculated
2 Pipe - (473)ExWoodFlumeToRemain	Pipe	Structure - (489)	Structure - (490)	29.68	2782.00	2781.95	0.1700	36.000	0.0140	24.00	62.59	3.85	1.25	Calculated
3 Pipe - (474)ExCMPtoRemain	Pipe	Structure - (490)	Structure - (491)	210.13	2781.95	2781.89	0.0300	48.000	0.0130	24.00	24.27	2.20	3.24	Calculated
4 Pipe - (475)	Pipe	Structure - (491)	Structure - (492)	4.99	2781.89	2781.88	0.1500	42.000	0.0130	24.00	38.74	4.24	1.99	Calculated
5 Pipe - (476)	Pipe	Structure - (492)	Structure - (493)	35.22	2781.88	2781.84	0.1300	42.000	0.0130	24.00	36.56	4.05	2.07	Calculated
6 Pipe - (477)	Pipe	Structure - (493)	Structure - (494)	103.36	2781.84	2781.70	0.1300	42.000	0.0130	24.00	36.37	4.04	2.08	Calculated
7 Pipe - (478)	Pipe	Structure - (494)	Structure - (495)	67.48	2781.70	2781.61	0.1300	42.000	0.0130	24.00	36.58	4.05	2.07	Calculated
8 Pipe - (479)	Pipe	Structure - (495)	Structure - (496)	110.86	2781.61	2781.47	0.1300	42.000	0.0130	24.00	36.57	4.05	2.07	Calculated
9 Pipe - (480)	Pipe	Structure - (496)	Structure - (497)	84.40	2781.47	2781.35	0.1300	42.000	0.0130	24.00	36.55	4.05	2.07	Calculated
10 Pipe - (481)	Pipe	Structure - (497)	Structure - (498)	15.96	2781.35	2781.33	0.1300	42.000	0.0130	24.00	36.67	4.06	2.07	Calculated
11 Pipe - (482)	Pipe	Structure - (498)	Structure - (499)	53.87	2781.33	2781.26	0.1300	42.000	0.0130	24.00	36.55	4.05	2.07	Calculated
12 Pipe - (483)	Pipe	Structure - (499)	Structure - (500)	161.58	2781.26	2781.05	0.1300	42.000	0.0130	24.00	36.57	4.05	2.07	Calculated
13 Pipe - (484)	Pipe	Structure - (500)	Structure - (539)AP	5.01	2781.05	2781.04	0.1300	42.000	0.0130	24.00	36.53	4.05	2.07	Calculated
14 Pipe - (484) (1)	Pipe	Structure - (538)	Structure - (501)	4.99	2781.02	2781.01	0.1200	42.000	0.0130	24.00	35.45	3.96	2.11	Calculated
15 Pipe - (484) (2)	Pipe	Structure - (539)AP	Structure - (538)	18.27	2781.04	2781.02	0.1300	42.000	0.0130	24.00	36.54	4.05	2.07	Calculated
16 Pipe - (485)	Pipe	Structure - (501)	Structure - (502)	55.82	2781.01	2780.94	0.1300	42.000	0.0130	24.00	36.58	4.05	2.07	Calculated
17 Pipe - (486)	Pipe	Structure - (502)	Structure - (503)	10.71	2780.94	2780.92	0.1400	42.000	0.0130	24.00	37.66	4.15	2.03	Calculated
18 Pipe - (487)	Pipe	Structure - (503)	Structure - (504)	82.44	2780.92	2780.81	0.1300	42.000	0.0130	24.00	36.57	4.05	2.07	Calculated
19 Pipe - (488)	Pipe	Structure - (504)	Structure - (505)	47.05	2780.81	2780.75	0.1400	42.000	0.0130	24.00	37.42	4.13	2.04	Calculated
20 Pipe - (489)	Pipe	Structure - (505)	Structure - (506)	124.53	2780.75	2780.59	0.1300	42.000	0.0130	24.00	36.25	4.02	2.08	Calculated
21 Pipe - (490)	Pipe	Structure - (506)	Structure - (507)	71.39	2780.59	2780.49	0.1300	42.000	0.0130	24.00	36.57	4.05	2.07	Calculated
22 Pipe - (491)	Pipe	Structure - (507)	Structure - (537)	4.00	2780.49	2780.49	0.1200	42.000	0.0130	24.00	34.49	3.87	2.15	Calculated
23 Pipe - (491) (1)	Pipe	Structure - (537)	Structure - (508)	19.58	2780.49	2780.46	0.1300	42.000	0.0130	24.00	36.59	4.05	2.07	Calculated
24 Pipe - (492)	Pipe	Structure - (508)	Structure - (509)	129.75	2780.46	2780.29	0.1300	42.000	0.0130	24.00	36.57	4.05	2.07	Calculated
25 Pipe - (493)	Pipe	Structure - (509)	Structure - (510)	228.74	2780.29	2779.99	0.1300	42.000	0.0130	24.00	36.57	4.05	2.07	Calculated
26 Pipe - (494)	Pipe	Structure - (510)	Structure - (511)	146.26	2779.99	2779.79	0.1300	42.000	0.0130	24.00	36.58	4.05	2.07	Calculated
27 Pipe - (495)	Pipe	Structure - (511)	Structure - (512)AP	65.27	2779.79	2779.71	0.1300	42.000	0.0130	24.00	36.56	4.05	2.07	Calculated
28 Pipe - (496)	Pipe	Structure - (512)AP	Structure - (513)	165.78	2779.71	2779.49	0.1300	42.000	0.0130	24.00	36.58	4.05	2.07	Calculated
29 Pipe - (497)	Pipe	Structure - (513)	Structure - (514)	151.42	2779.49	2779.29	0.1300	42.000	0.0130	24.00	36.57	4.05	2.07	Calculated
30 Pipe - (498)	Pipe	Structure - (514)	Structure - (515)	127.78	2779.29	2779.12	0.1300	42.000	0.0130	24.00	36.57	4.05	2.07	Calculated
31 Pipe - (499)	Pipe	Structure - (515)	Structure - (516)	205.73	2779.12	2778.85	0.1300	42.000	0.0130	24.00	36.58	4.05	2.07	Calculated
32 Pipe - (500)	Pipe	Structure - (516)	Structure - (517)	91.40	2778.85	2778.73	0.1300	42.000	0.0130	24.00	36.56	4.05	2.07	Calculated
33 Pipe - (501)	Pipe	Structure - (517)	Structure - (518)	66.21	2778.73	2778.64	0.1300	42.000	0.0130	24.00	36.55	4.05	2.07	Calculated
34 Pipe - (502)	Pipe	Structure - (518)	Structure - (519)	8.52	2778.64	2778.63	0.1300	42.000	0.0130	24.00	36.65	4.06	2.07	Calculated
35 Pipe - (503)	Pipe	Structure - (519)	Structure - (520)	20.15	2778.63	2778.60	0.1300	42.000	0.0130	24.00	36.56	4.05	2.07	Calculated
36 Pipe - (504)	Pipe	Structure - (520)	Structure - (520)AP	170.01	2778.60	2778.38	0.1300	42.000	0.0130	24.00	36.55	4.05	2.07	Calculated
37 Pipe - (504) (1)	Pipe	Structure - (520)AP	Structure - (521)	71.15	2778.38	2778.28	0.1300	42.000	0.0130	24.00	36.61	4.06	2.07	Calculated
38 Pipe - (505)	Pipe	Structure - (521)	Structure - (522)	257.09	2778.28	2777.94	0.1300	42.000	0.0130	24.00	36.57	4.05	2.07	Calculated
39 Pipe - (506)	Pipe	Structure - (522)	Structure - (523)	118.12	2777.94	2777.79	0.1300	42.000	0.0130	24.00	36.59	4.05	2.07	Calculated
40 Pipe - (507)	Pipe	Structure - (523)	Structure - (524)	42.41	2777.79	2777.73	0.1300	42.000	0.0130	24.00	36.56	4.05	2.07	Calculated
41 Pipe - (508)	Pipe	Structure - (524)	Structure - (525)	15.63	2777.73	2777.71	0.1400	42.000	0.0130	24.00	37.14	4.10	2.05	Calculated
42 Pipe - (509)	Pipe	Structure - (525)	Structure - (526)	48.21	2777.71	2777.65	0.1300	42.000	0.0130	24.00	36.57	4.05	2.07	Calculated
43 Pipe - (510)	Pipe	Structure - (526)	Structure - (527)	11.23	2777.65	2777.63	0.1400	42.000	0.0130	24.00	37.01	4.09	2.05	Calculated
44 Pipe - (511)	Pipe	Structure - (527)	Structure - (528)	39.73	2777.63	2777.58	0.1300	42.000	0.0130	24.00	36.51	4.05	2.07	Calculated
45 Pipe - (512)	Pipe	Structure - (528)	Structure - (529)	61.53	2777.58	2777.50	0.1300	42.000	0.0130	24.00	36.57	4.05	2.07	Calculated
46 Pipe - (513)	Pipe	Structure - (529)	Structure - (530)	50.92	2777.50	2777.43	0.1300	42.000	0.0130	24.00	36.58	4.05	2.07	Calculated
47 Pipe - (514)	Pipe	Structure - (530)	Structure - (531)	67.59	2777.43	2777.34	0.1300	42.000	0.0130	24.00	36.57	4.05	2.07	Calculated
48 Pipe - (515)	Pipe	Structure - (531)	Structure - (532)	20.43	2777.34	2777.32	0.1300	42.000	0.0130	24.00	36.58	4.05	2.07	Calculated
49 Pipe - (516)	Pipe	Structure - (532)	Structure - (533)	151.33	2777.32	2777.11	0.1400	42.000	0.0130	24.00	37.04	4.09	2.05	Calculated
50 Pipe - (517)	Pipe	Structure - (533)	Out-BeehiveSiphonInlet	41.73	2777.11	2777.06	0.1200	42.000	0.0130	24.00	34.83	3.90	2.14	Calculated

# Junction Input

SN	Element ID	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Initial Water Elevation (ft)	Initial Water Depth (ft)	Surcharge Elevation (ft)	Surcharge Depth (ft)	Ponded Area (ft <sup>2</sup> )	Minimum Pipe Cover (in)
1	Structure - (488)-CostaCreekSiphonOutlet	2782.10	2785.10	3.00	2782.10	0.00	2785.10	0.00	0.00	0.00
2	Structure - (489)	2782.00	2785.00	3.00	2782.00	0.00	2785.00	0.00	0.00	0.00
3	Structure - (490)	2781.95	2785.95	4.00	2781.95	0.00	2785.95	0.00	0.00	0.00
4	Structure - (491)	2781.89	2786.22	4.33	2781.89	0.00	2786.22	0.00	0.00	0.00
5	Structure - (492)	2781.88	2785.14	3.26	2781.88	0.00	2785.14	0.00	0.00	0.00
6	Structure - (493)	2781.84	2785.09	3.26	2781.84	0.00	2785.09	0.00	0.00	0.00
7	Structure - (494)	2781.70	2784.96	3.26	2781.70	0.00	2784.96	0.00	0.00	0.00
8	Structure - (495)	2781.61	2784.87	3.26	2781.61	0.00	2784.87	0.00	0.00	0.00
9	Structure - (496)	2781.47	2784.72	3.26	2781.47	0.00	2784.72	0.00	0.00	0.00
10	Structure - (497)	2781.35	2785.68	4.33	2781.35	0.00	2785.68	0.00	0.00	0.00
11	Structure - (498)	2781.33	2785.66	4.33	2781.33	0.00	2785.66	0.00	0.00	0.00
12	Structure - (499)	2781.26	2784.52	3.26	2781.26	0.00	2784.52	0.00	0.00	0.00
13	Structure - (500)	2781.05	2785.60	4.55	2781.05	0.00	2785.60	0.00	0.00	0.00
14	Structure - (501)	2781.01	2784.27	3.26	2781.01	0.00	2784.27	0.00	0.00	0.00
15	Structure - (502)	2780.94	2784.19	3.26	2780.94	0.00	2784.19	0.00	0.00	0.00
16	Structure - (503)	2780.92	2784.18	3.26	2780.92	0.00	2784.18	0.00	0.00	0.00
17	Structure - (504)	2780.81	2784.07	3.26	2780.81	0.00	2784.07	0.00	0.00	0.00
18	Structure - (505)	2780.75	2784.00	3.26	2780.75	0.00	2784.00	0.00	0.00	0.00
19	Structure - (506)	2780.59	2783.84	3.26	2780.59	0.00	2783.84	0.00	0.00	0.00
20	Structure - (507)	2780.49	2783.75	3.26	2780.49	0.00	2783.75	0.00	0.00	0.00
21	Structure - (508)	2780.46	2783.72	3.26	2780.46	0.00	2783.72	0.00	0.00	0.00
22	Structure - (509)	2780.29	2783.55	3.26	2780.29	0.00	2783.55	0.00	0.00	0.00
23	Structure - (510)	2779.99	2783.24	3.26	2779.99	0.00	2783.24	0.00	0.00	0.00
24	Structure - (511)	2779.79	2783.05	3.26	2779.79	0.00	2783.05	0.00	0.00	0.00
25	Structure - (512)AP	2779.71	2784.20	4.49	2779.71	0.00	2784.20	0.00	0.00	0.00
26	Structure - (513)	2779.49	2782.75	3.26	2779.49	0.00	2782.75	0.00	0.00	0.00
27	Structure - (514)	2779.29	2782.55	3.26	2779.29	0.00	2782.55	0.00	0.00	0.00
28	Structure - (515)	2779.12	2782.38	3.26	2779.12	0.00	2782.38	0.00	0.00	0.00
29	Structure - (516)	2778.85	2782.10	3.26	2778.85	0.00	2782.10	0.00	0.00	0.00
30	Structure - (517)	2778.73	2781.98	3.26	2778.73	0.00	2781.98	0.00	0.00	0.00
31	Structure - (518)	2778.64	2781.90	3.26	2778.64	0.00	2781.90	0.00	0.00	0.00
32	Structure - (519)	2778.63	2781.88	3.26	2778.63	0.00	2781.88	0.00	0.00	0.00
33	Structure - (520)	2778.60	2781.86	3.26	2778.60	0.00	2781.86	0.00	0.00	0.00
34	Structure - (520)AP	2778.38	2782.90	4.52	2778.38	0.00	2782.90	0.00	0.00	0.00
35	Structure - (521)	2778.28	2781.54	3.26	2778.28	0.00	2781.54	0.00	0.00	0.00
36	Structure - (522)	2777.94	2781.20	3.26	2777.94	0.00	2781.20	0.00	0.00	0.00
37	Structure - (523)	2777.79	2781.04	3.26	2777.79	0.00	2781.04	0.00	0.00	0.00
38	Structure - (524)	2777.73	2780.99	3.26	2777.73	0.00	2780.99	0.00	0.00	0.00
39	Structure - (525)	2777.71	2780.97	3.26	2777.71	0.00	2780.97	0.00	0.00	0.00
40	Structure - (526)	2777.65	2780.90	3.26	2777.65	0.00	2780.90	0.00	0.00	0.00
41	Structure - (527)	2777.63	2780.89	3.26	2777.63	0.00	2780.89	0.00	0.00	0.00
42	Structure - (528)	2777.58	2780.84	3.26	2777.58	0.00	2780.84	0.00	0.00	0.00
43	Structure - (529)	2777.50	2780.75	3.26	2777.50	0.00	2780.75	0.00	0.00	0.00
44	Structure - (530)	2777.43	2780.69	3.26	2777.43	0.00	2780.69	0.00	0.00	0.00
45	Structure - (531)	2777.34	2780.60	3.26	2777.34	0.00	2780.60	0.00	0.00	0.00
46	Structure - (532)	2777.32	2780.57	3.26	2777.32	0.00	2780.57	0.00	0.00	0.00
47	Structure - (533)	2777.11	2780.11	3.00	2777.11	0.00	2780.11	0.00	0.00	0.00
48	Structure - (537)	2780.49	2783.74	3.26	2780.49	0.00	2783.74	0.00	0.00	0.00
49	Structure - (538)	2781.02	2785.35	4.33	2781.02	0.00	2785.35	0.00	0.00	0.00
50	Structure - (539)AP	2781.04	2785.37	4.33	2781.04	0.00	2785.37	0.00	0.00	0.00

# Junction Results

SN	Element ID	Peak Inflow	Max HGL Elevation	Max HGL Depth Attained	Max Surcharge Depth Attained	Min Freeboard Attained	Average HGL Elevation	Average HGL Depth Attained	Total Flooded Volume
		(cfs)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ac-in)
1	Structure - (488)-CostaCreekSiphonOutlet	24.00	2784.11	2.01	0.00	1.99	2784.11	2.01	0.00
2	Structure - (489)	24.00	2784.01	2.01	0.00	1.99	2784.01	2.01	0.00
3	Structure - (490)	24.00	2785.19	3.24	0.00	0.76	2785.19	3.24	0.00
4	Structure - (491)	24.00	2785.13	3.24	0.00	1.09	2785.13	3.24	0.00
5	Structure - (492)	24.00	2783.95	2.07	0.00	1.43	2783.95	2.07	0.00
6	Structure - (493)	24.00	2783.91	2.07	0.00	1.42	2783.91	2.07	0.00
7	Structure - (494)	24.00	2783.78	2.08	0.00	1.42	2783.78	2.08	0.00
8	Structure - (495)	24.00	2783.68	2.07	0.00	1.43	2783.68	2.07	0.00
9	Structure - (496)	24.00	2783.54	2.07	0.00	1.43	2783.54	2.07	0.00
10	Structure - (497)	24.00	2783.42	2.07	0.00	2.26	2783.42	2.07	0.00
11	Structure - (498)	24.00	2783.40	2.07	0.00	2.26	2783.40	2.07	0.00
12	Structure - (499)	24.00	2783.33	2.07	0.00	1.43	2783.33	2.07	0.00
13	Structure - (500)	24.00	2783.12	2.07	0.00	2.48	2783.12	2.07	0.00
14	Structure - (501)	24.00	2783.12	2.11	0.00	1.39	2783.12	2.11	0.00
15	Structure - (502)	24.00	2783.01	2.07	0.00	1.43	2783.01	2.07	0.00
16	Structure - (503)	24.00	2782.99	2.07	0.00	1.43	2782.99	2.07	0.00
17	Structure - (504)	24.00	2782.88	2.07	0.00	1.43	2782.88	2.07	0.00
18	Structure - (505)	24.00	2782.83	2.08	0.00	1.42	2782.83	2.08	0.00
19	Structure - (506)	24.00	2782.67	2.08	0.00	1.42	2782.67	2.08	0.00
20	Structure - (507)	24.00	2782.64	2.15	0.00	1.35	2782.64	2.15	0.00
21	Structure - (508)	24.00	2782.53	2.07	0.00	1.43	2782.53	2.07	0.00
22	Structure - (509)	24.00	2782.36	2.07	0.00	1.43	2782.36	2.07	0.00
23	Structure - (510)	24.00	2782.06	2.07	0.00	1.43	2782.06	2.07	0.00
24	Structure - (511)	24.00	2781.87	2.08	0.00	1.43	2781.87	2.08	0.00
25	Structure - (512)AP	24.00	2781.78	2.07	0.00	2.42	2781.78	2.07	0.00
26	Structure - (513)	24.00	2781.56	2.07	0.00	1.43	2781.56	2.07	0.00
27	Structure - (514)	24.00	2781.36	2.07	0.00	1.43	2781.36	2.07	0.00
28	Structure - (515)	24.00	2781.19	2.07	0.00	1.43	2781.19	2.07	0.00
29	Structure - (516)	24.00	2780.92	2.07	0.00	1.43	2780.92	2.07	0.00
30	Structure - (517)	24.00	2780.80	2.07	0.00	1.43	2780.80	2.07	0.00
31	Structure - (518)	24.00	2780.71	2.07	0.00	1.43	2780.71	2.07	0.00
32	Structure - (519)	24.00	2780.70	2.07	0.00	1.43	2780.70	2.07	0.00
33	Structure - (520)	24.00	2780.67	2.07	0.00	1.43	2780.67	2.07	0.00
34	Structure - (520)AP	24.00	2780.45	2.07	0.00	2.45	2780.45	2.07	0.00
35	Structure - (521)	24.00	2780.35	2.07	0.00	1.43	2780.35	2.07	0.00
36	Structure - (522)	24.00	2780.01	2.07	0.00	1.43	2780.01	2.07	0.00
37	Structure - (523)	24.00	2779.86	2.07	0.00	1.43	2779.86	2.07	0.00
38	Structure - (524)	24.00	2779.80	2.07	0.00	1.43	2779.80	2.07	0.00
39	Structure - (525)	24.00	2779.78	2.07	0.00	1.43	2779.78	2.07	0.00
40	Structure - (526)	24.00	2779.72	2.07	0.00	1.43	2779.72	2.07	0.00
41	Structure - (527)	24.00	2779.70	2.07	0.00	1.43	2779.70	2.07	0.00
42	Structure - (528)	24.00	2779.65	2.07	0.00	1.43	2779.65	2.07	0.00
43	Structure - (529)	24.00	2779.57	2.07	0.00	1.43	2779.57	2.07	0.00
44	Structure - (530)	24.00	2779.50	2.07	0.00	1.43	2779.50	2.07	0.00
45	Structure - (531)	24.00	2779.41	2.07	0.00	1.43	2779.41	2.07	0.00
46	Structure - (532)	24.00	2779.38	2.06	0.00	1.43	2779.38	2.06	0.00
47	Structure - (533)	24.00	2779.25	2.14	0.00	1.36	2779.25	2.14	0.00
48	Structure - (537)	24.00	2782.64	2.15	0.00	1.35	2782.64	2.15	0.00
49	Structure - (538)	24.00	2783.13	2.11	0.00	2.22	2783.13	2.11	0.00
50	Structure - (539)AP	24.00	2783.11	2.07	0.00	2.26	2783.11	2.07	0.00

# Pipe Input

SN	Element ID	Length (ft)	Inlet Invert Elevation (ft)	Outlet Invert Elevation (ft)	Average Slope (%)	Pipe Diameter or Height (in)	Manning's Roughness	Entrance Losses	Exit/Bend Losses	Initial Flow (cfs)
1	Pipe - (472)ExCMPtoRemain	90.99	2782.10	2782.00	0.1100	48.000	0.0130	0.6000	0.6000	0.00
2	Pipe - (473)ExWoodFlumeToRemain	29.68	2782.00	2781.95	0.1700	36.000	0.0140	0.6000	0.6000	0.00
3	Pipe - (474)ExCMPtoRemain	210.13	2781.95	2781.89	0.0300	48.000	0.0130	0.6000	0.6000	0.00
4	Pipe - (475)	4.99	2781.89	2781.88	0.1500	42.000	0.0130	0.6000	0.6000	0.00
5	Pipe - (476)	35.22	2781.88	2781.84	0.1300	42.000	0.0130	0.6000	0.6000	0.00
6	Pipe - (477)	103.36	2781.84	2781.70	0.1300	42.000	0.0130	0.6000	0.6000	0.00
7	Pipe - (478)	67.48	2781.70	2781.61	0.1300	42.000	0.0130	0.6000	0.6000	0.00
8	Pipe - (479)	110.86	2781.61	2781.47	0.1300	42.000	0.0130	0.6000	0.6000	0.00
9	Pipe - (480)	84.40	2781.47	2781.35	0.1300	42.000	0.0130	0.6000	0.6000	0.00
10	Pipe - (481)	15.96	2781.35	2781.33	0.1300	42.000	0.0130	0.6000	0.6000	0.00
11	Pipe - (482)	53.87	2781.33	2781.26	0.1300	42.000	0.0130	0.6000	0.6000	0.00
12	Pipe - (483)	161.58	2781.26	2781.05	0.1300	42.000	0.0130	0.6000	0.6000	0.00
13	Pipe - (484)	5.01	2781.05	2781.04	0.1300	42.000	0.0130	0.6000	0.6000	0.00
14	Pipe - (484) (1)	4.99	2781.02	2781.01	0.1200	42.000	0.0130	0.6000	0.6000	0.00
15	Pipe - (484) (2)	18.27	2781.04	2781.02	0.1300	42.000	0.0130	0.6000	0.6000	0.00
16	Pipe - (485)	55.82	2781.01	2780.94	0.1300	42.000	0.0130	0.6000	0.6000	0.00
17	Pipe - (486)	10.71	2780.94	2780.92	0.1400	42.000	0.0130	0.6000	0.6000	0.00
18	Pipe - (487)	82.44	2780.92	2780.81	0.1300	42.000	0.0130	0.6000	0.6000	0.00
19	Pipe - (488)	47.05	2780.81	2780.75	0.1400	42.000	0.0130	0.6000	0.6000	0.00
20	Pipe - (489)	124.53	2780.75	2780.59	0.1300	42.000	0.0130	0.6000	0.6000	0.00
21	Pipe - (490)	71.39	2780.59	2780.49	0.1300	42.000	0.0130	0.6000	0.6000	0.00
22	Pipe - (491)	4.00	2780.49	2780.49	0.1200	42.000	0.0130	0.6000	0.6000	0.00
23	Pipe - (491) (1)	19.58	2780.49	2780.46	0.1300	42.000	0.0130	0.6000	0.6000	0.00
24	Pipe - (492)	129.75	2780.46	2780.29	0.1300	42.000	0.0130	0.6000	0.6000	0.00
25	Pipe - (493)	228.74	2780.29	2779.99	0.1300	42.000	0.0130	0.6000	0.6000	0.00
26	Pipe - (494)	146.26	2779.99	2779.79	0.1300	42.000	0.0130	0.6000	0.6000	0.00
27	Pipe - (495)	65.27	2779.79	2779.71	0.1300	42.000	0.0130	0.6000	0.6000	0.00
28	Pipe - (496)	165.78	2779.71	2779.49	0.1300	42.000	0.0130	0.6000	0.6000	0.00
29	Pipe - (497)	151.42	2779.49	2779.29	0.1300	42.000	0.0130	0.6000	0.6000	0.00
30	Pipe - (498)	127.78	2779.29	2779.12	0.1300	42.000	0.0130	0.6000	0.6000	0.00
31	Pipe - (499)	205.73	2779.12	2778.85	0.1300	42.000	0.0130	0.6000	0.6000	0.00
32	Pipe - (500)	91.40	2778.85	2778.73	0.1300	42.000	0.0130	0.6000	0.6000	0.00
33	Pipe - (501)	66.21	2778.73	2778.64	0.1300	42.000	0.0130	0.6000	0.6000	0.00
34	Pipe - (502)	8.52	2778.64	2778.63	0.1300	42.000	0.0130	0.6000	0.6000	0.00
35	Pipe - (503)	20.15	2778.63	2778.60	0.1300	42.000	0.0130	0.6000	0.6000	0.00
36	Pipe - (504)	170.01	2778.60	2778.38	0.1300	42.000	0.0130	0.6000	0.6000	0.00
37	Pipe - (504) (1)	71.15	2778.38	2778.28	0.1300	42.000	0.0130	0.6000	0.6000	0.00
38	Pipe - (505)	257.09	2778.28	2777.94	0.1300	42.000	0.0130	0.6000	0.6000	0.00
39	Pipe - (506)	118.12	2777.94	2777.79	0.1300	42.000	0.0130	0.6000	0.6000	0.00
40	Pipe - (507)	42.41	2777.79	2777.73	0.1300	42.000	0.0130	0.6000	0.6000	0.00
41	Pipe - (508)	15.63	2777.73	2777.71	0.1400	42.000	0.0130	0.6000	0.6000	0.00
42	Pipe - (509)	48.21	2777.71	2777.65	0.1300	42.000	0.0130	0.6000	0.6000	0.00
43	Pipe - (510)	11.23	2777.65	2777.63	0.1400	42.000	0.0130	0.6000	0.6000	0.00
44	Pipe - (511)	39.73	2777.63	2777.58	0.1300	42.000	0.0130	0.6000	0.6000	0.00
45	Pipe - (512)	61.53	2777.58	2777.50	0.1300	42.000	0.0130	0.6000	0.6000	0.00
46	Pipe - (513)	50.92	2777.50	2777.43	0.1300	42.000	0.0130	0.6000	0.6000	0.00
47	Pipe - (514)	67.59	2777.43	2777.34	0.1300	42.000	0.0130	0.6000	0.6000	0.00
48	Pipe - (515)	20.43	2777.34	2777.32	0.1300	42.000	0.0130	0.6000	0.6000	0.00
49	Pipe - (516)	151.33	2777.32	2777.11	0.1400	42.000	0.0130	0.6000	0.6000	0.00
50	Pipe - (517)	41.73	2777.11	2777.06	0.1200	42.000	0.0130	0.6000	0.6000	0.00

# Pipe Results

SN Element ID	Peak Flow	Design Flow Capacity	Peak Flow/ Design Flow Ratio	Peak Flow Velocity	Travel Time	Peak Flow Depth	Peak Flow Depth/ Total Depth Ratio	Froude Number	Reported Condition
	(cfs)	(cfs)		(ft/sec)	(min)	(ft)			
1 Pipe - (472)ExCMPtoRemain	24.00	47.62	0.50	3.80	0.40	2.01	0.50		Calculated
2 Pipe - (473)ExWoodFlumeToRemain	24.00	62.59	0.38	3.85	0.13	1.25	0.42		Calculated
3 Pipe - (474)ExCMPtoRemain	24.00	24.27	0.99	2.20	1.59	3.24	0.81		Calculated
4 Pipe - (475)	24.00	38.74	0.62	4.24	0.02	1.99	0.57		Calculated
5 Pipe - (476)	24.00	36.56	0.66	4.05	0.14	2.07	0.59		Calculated
6 Pipe - (477)	24.00	36.37	0.66	4.04	0.43	2.08	0.59		Calculated
7 Pipe - (478)	24.00	36.58	0.66	4.05	0.28	2.07	0.59		Calculated
8 Pipe - (479)	24.00	36.57	0.66	4.05	0.46	2.07	0.59		Calculated
9 Pipe - (480)	24.00	36.55	0.66	4.05	0.35	2.07	0.59		Calculated
10 Pipe - (481)	24.00	36.67	0.65	4.06	0.07	2.07	0.59		Calculated
11 Pipe - (482)	24.00	36.55	0.66	4.05	0.22	2.07	0.59		Calculated
12 Pipe - (483)	24.00	36.57	0.66	4.05	0.66	2.07	0.59		Calculated
13 Pipe - (484)	24.00	36.53	0.66	4.05	0.02	2.07	0.59		Calculated
14 Pipe - (484) (1)	24.00	35.45	0.68	3.96	0.02	2.11	0.60		Calculated
15 Pipe - (484) (2)	24.00	36.54	0.66	4.05	0.08	2.07	0.59		Calculated
16 Pipe - (485)	24.00	36.58	0.66	4.05	0.23	2.07	0.59		Calculated
17 Pipe - (486)	24.00	37.66	0.64	4.15	0.04	2.03	0.58		Calculated
18 Pipe - (487)	24.00	36.57	0.66	4.05	0.34	2.07	0.59		Calculated
19 Pipe - (488)	24.00	37.42	0.64	4.13	0.19	2.04	0.58		Calculated
20 Pipe - (489)	24.00	36.25	0.66	4.02	0.52	2.08	0.59		Calculated
21 Pipe - (490)	24.00	36.57	0.66	4.05	0.29	2.07	0.59		Calculated
22 Pipe - (491)	24.00	34.49	0.70	3.87	0.02	2.15	0.61		Calculated
23 Pipe - (491) (1)	24.00	36.59	0.66	4.05	0.08	2.07	0.59		Calculated
24 Pipe - (492)	24.00	36.57	0.66	4.05	0.53	2.07	0.59		Calculated
25 Pipe - (493)	24.00	36.57	0.66	4.05	0.94	2.07	0.59		Calculated
26 Pipe - (494)	24.00	36.58	0.66	4.05	0.60	2.07	0.59		Calculated
27 Pipe - (495)	24.00	36.56	0.66	4.05	0.27	2.07	0.59		Calculated
28 Pipe - (496)	24.00	36.58	0.66	4.05	0.68	2.07	0.59		Calculated
29 Pipe - (497)	24.00	36.57	0.66	4.05	0.62	2.07	0.59		Calculated
30 Pipe - (498)	24.00	36.57	0.66	4.05	0.53	2.07	0.59		Calculated
31 Pipe - (499)	24.00	36.58	0.66	4.05	0.85	2.07	0.59		Calculated
32 Pipe - (500)	24.00	36.56	0.66	4.05	0.38	2.07	0.59		Calculated
33 Pipe - (501)	24.00	36.55	0.66	4.05	0.27	2.07	0.59		Calculated
34 Pipe - (502)	24.00	36.65	0.65	4.06	0.03	2.07	0.59		Calculated
35 Pipe - (503)	24.00	36.56	0.66	4.05	0.08	2.07	0.59		Calculated
36 Pipe - (504)	24.00	36.55	0.66	4.05	0.70	2.07	0.59		Calculated
37 Pipe - (504) (1)	24.00	36.61	0.66	4.06	0.29	2.07	0.59		Calculated
38 Pipe - (505)	24.00	36.57	0.66	4.05	1.06	2.07	0.59		Calculated
39 Pipe - (506)	24.00	36.59	0.66	4.05	0.49	2.07	0.59		Calculated
40 Pipe - (507)	24.00	36.56	0.66	4.05	0.17	2.07	0.59		Calculated
41 Pipe - (508)	24.00	37.14	0.65	4.10	0.06	2.05	0.59		Calculated
42 Pipe - (509)	24.00	36.57	0.66	4.05	0.20	2.07	0.59		Calculated
43 Pipe - (510)	24.00	37.01	0.65	4.09	0.05	2.05	0.59		Calculated
44 Pipe - (511)	24.00	36.51	0.66	4.05	0.16	2.07	0.59		Calculated
45 Pipe - (512)	24.00	36.57	0.66	4.05	0.25	2.07	0.59		Calculated
46 Pipe - (513)	24.00	36.58	0.66	4.05	0.21	2.07	0.59		Calculated
47 Pipe - (514)	24.00	36.57	0.66	4.05	0.28	2.07	0.59		Calculated
48 Pipe - (515)	24.00	36.58	0.66	4.05	0.08	2.07	0.59		Calculated
49 Pipe - (516)	24.00	37.04	0.65	4.09	0.62	2.05	0.59		Calculated
50 Pipe - (517)	24.00	34.83	0.69	3.90	0.18	2.14	0.61		Calculated



## Project Description

File Name ..... Section6-0.013.SPF

## Number of Elements

	Qty
Rain Gages .....	0
Subbasins.....	0
Nodes.....	27
<i>Junctions</i> .....	26
<i>Outfalls</i> .....	1
<i>Flow Diversions</i> .....	0
<i>Inlets</i> .....	0
<i>Storage Nodes</i> .....	0
Links.....	26
<i>Channels</i> .....	0
<i>Pipes</i> .....	26
<i>Pumps</i> .....	0
<i>Orifices</i> .....	0
<i>Weirs</i> .....	0
<i>Outlets</i> .....	0
Pollutants .....	0
Land Uses .....	0

## Node Summary

SN	Element ID	Element Type	Invert Elevation	Ground/Rim (Max) Elevation	Initial Water Elevation	Surcharge Elevation	Peak Inflow	Max HGL Elevation Attained
			(ft)	(ft)	(ft)	(ft)	(cfs)	(ft)
1	Structure - (540)BeehiveSiphonOutlet	Junction	2775.25	2778.25	2773.93	2777.19	24.00	2777.62
2	Structure - (541)	Junction	2775.15	2778.15	2775.11	2778.37	24.00	2777.56
3	Structure - (542)	Junction	2775.07	2778.33	2775.07	2778.33	24.00	2777.73
4	Structure - (543)	Junction	2775.05	2778.31	2775.05	2778.31	24.00	2777.71
5	Structure - (545)	Junction	2774.87	2778.12	2774.86	2778.12	24.00	2777.46
6	Structure - (546)	Junction	2774.86	2778.12	2774.86	2778.12	24.00	2777.39
7	Structure - (547)	Junction	2774.80	2778.06	2774.80	2778.06	24.00	2777.42
8	Structure - (548)	Junction	2774.71	2777.97	2774.71	2777.97	24.00	2777.33
9	Structure - (549)AP	Junction	2774.68	2779.22	2774.68	2779.22	24.00	2777.27
10	Structure - (550)	Junction	2774.65	2778.98	2774.65	2778.98	24.00	2777.21
11	Structure - (551)	Junction	2774.53	2777.53	2774.48	2777.74	24.00	2777.09
12	Structure - (552)	Junction	2774.45	2777.45	2774.42	2777.68	24.00	2776.83
13	Structure - (553)	Junction	2774.40	2777.40	2774.39	2777.65	24.00	2776.97
14	Structure - (554)	Junction	2774.39	2777.64	2774.38	2777.64	24.00	2777.01
15	Structure - (555)	Junction	2774.33	2777.58	2774.32	2777.58	24.00	2776.95
16	Structure - (556)	Junction	2774.33	2777.57	2774.31	2777.57	24.00	2776.84
17	Structure - (557)	Junction	2774.31	2777.56	2774.30	2777.56	24.00	2776.83
18	Structure - (558)	Junction	2774.26	2777.52	2774.26	2777.52	24.00	2776.81
19	Structure - (559)	Junction	2774.16	2777.42	2774.16	2777.42	24.00	2776.74
20	Structure - (560)	Junction	2774.05	2777.31	2774.05	2777.31	24.00	2776.69
21	Structure - (561)AP	Junction	2773.93	2778.44	2773.93	2778.44	24.00	2776.57
22	Structure - (562)	Junction	2773.56	2776.82	2773.56	2776.82	24.00	2776.18
23	Structure - (563)_Transition	Junction	2773.31	2779.09	2773.31	2779.09	24.00	2775.93
24	Structure - (565)Transition	Junction	2772.98	2778.76	2772.98	2778.76	24.00	2775.06
25	Structure - (566)	Junction	2772.76	2776.02	2772.76	2776.02	24.00	2774.84
26	Structure - (567)	Junction	2772.25	2775.51	2772.25	2775.51	24.00	2774.28
27	Out-ForbestownWaterTreatment	Outfall	2771.99				24.00	2774.03

## 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	Design Flow Capacity	Peak Flow Velocity	Peak Flow Reported Depth	Condition
				(ft)	(ft)	(ft)	(%)	(in)		(cfs)	(cfs)	(ft/sec)	(ft)	
1	Pipe - (518)	Pipe Structure - (540)	BeehiveSiphonOutlet Structure - (541)	112.37	2775.25	2775.15	0.0900	42.000	0.0130	24.00	30.01	3.47	2.37	Calculated
2	Pipe - (519)	Pipe Structure - (541)	Structure - (542)	94.52	2775.15	2775.07	0.0800	42.000	0.0130	24.00	29.27	3.39	2.41	Calculated
3	Pipe - (520)	Pipe Structure - (542)	Structure - (543)	30.12	2775.07	2775.05	0.0700	42.000	0.0130	24.00	25.93	3.06	2.66	Calculated
4	Pipe - (522)	Pipe Structure - (543)	Structure - (545)	255.00	2775.05	2774.87	0.0700	42.000	0.0130	24.00	26.73	3.14	2.59	Calculated
5	Pipe - (523)	Pipe Structure - (545)	Structure - (546)	20.06	2774.89	2774.86	0.1500	42.000	0.0130	24.00	38.91	4.25	1.99	Calculated
6	Pipe - (524)	Pipe Structure - (546)	Structure - (547)	79.90	2774.86	2774.80	0.0800	42.000	0.0130	24.00	27.57	3.23	2.53	Calculated
7	Pipe - (525)	Pipe Structure - (547)	Structure - (548)	131.12	2774.80	2774.71	0.0700	42.000	0.0130	24.00	26.36	3.10	2.62	Calculated
8	Pipe - (526)	Pipe Structure - (548)	Structure - (549)AP	42.25	2774.71	2774.68	0.0700	42.000	0.0130	24.00	26.81	3.15	2.59	Calculated
9	Pipe - (527)	Pipe Structure - (549)AP	Structure - (550)	40.88	2774.68	2774.65	0.0700	42.000	0.0130	24.00	27.25	3.19	2.55	Calculated
10	Pipe - (528)	Pipe Structure - (550)	Structure - (551)	164.97	2774.65	2774.53	0.0700	42.000	0.0130	24.00	27.14	3.18	2.56	Calculated
11	Pipe - (529)	Pipe Structure - (551)	Structure - (552)	91.54	2774.53	2774.45	0.0900	42.000	0.0130	24.00	29.74	3.44	2.38	Calculated
12	Pipe - (530)	Pipe Structure - (552)	Structure - (553)	44.86	2774.45	2774.40	0.1100	42.000	0.0130	24.00	33.59	3.79	2.19	Calculated
13	Pipe - (531)	Pipe Structure - (553)	Structure - (554)	20.84	2774.40	2774.39	0.0700	42.000	0.0130	24.00	26.99	3.17	2.57	Calculated
14	Pipe - (532)	Pipe Structure - (554)	Structure - (555)	87.74	2774.39	2774.33	0.0700	42.000	0.0130	24.00	26.31	3.10	2.63	Calculated
15	Pipe - (533)	Pipe Structure - (555)	Structure - (556)	11.90	2774.34	2774.33	0.0800	42.000	0.0130	24.00	29.17	3.38	2.42	Calculated
16	Pipe - (534)	Pipe Structure - (556)	Structure - (557)	19.74	2774.33	2774.31	0.0800	42.000	0.0130	24.00	27.74	3.24	2.52	Calculated
17	Pipe - (535)	Pipe Structure - (557)	Structure - (558)	61.70	2774.31	2774.26	0.0800	42.000	0.0130	24.00	28.64	3.33	2.45	Calculated
18	Pipe - (536)	Pipe Structure - (558)	Structure - (559)	136.54	2774.26	2774.16	0.0700	42.000	0.0130	24.00	27.23	3.19	2.55	Calculated
19	Pipe - (537)	Pipe Structure - (559)	Structure - (560)	154.23	2774.16	2774.05	0.0700	42.000	0.0130	24.00	26.87	3.16	2.58	Calculated
20	Pipe - (538)	Pipe Structure - (560)	Structure - (561)AP	177.93	2774.05	2773.93	0.0700	42.000	0.0130	24.00	26.13	3.08	2.64	Calculated
21	Pipe - (539)	Pipe Structure - (561)AP	Structure - (562)	529.31	2773.93	2773.56	0.0700	42.000	0.0130	24.00	26.60	3.13	2.60	Calculated
22	Pipe - (541)	Pipe Structure - (562)	Structure - (563)_Transition	364.19	2773.56	2773.31	0.0700	42.000	0.0130	24.00	26.36	3.10	2.62	Calculated
23	Pipe - (542)-RCP	Pipe Structure - (563)_Transition	Structure - (565)Transition	36.90	2773.31	2772.98	0.8900	48.000	0.0150	24.00	117.72	7.35	1.23	Calculated
24	Pipe - (543)	Pipe Structure - (565)Transition	Structure - (566)	167.99	2772.98	2772.76	0.1300	42.000	0.0130	24.00	36.41	4.04	2.08	Calculated
25	Pipe - (544)	Pipe Structure - (566)	Structure - (567)	363.60	2772.76	2772.25	0.1400	42.000	0.0130	24.00	37.68	4.15	2.03	Calculated
26	Pipe - (545)	Pipe Structure - (567)	Out-ForbestownWaterTreatment	184.43	2772.25	2771.99	0.1400	42.000	0.0130	24.00	37.58	4.14	2.03	Calculated

## Junction Input

SN	Element ID	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Initial Water Elevation (ft)	Initial Water Depth (ft)	Surcharge Elevation (ft)	Surcharge Depth (ft)	Ponded Area (ft²)	Minimum Pipe Cover (in)
1	Structure - (540)BeehiveSiphonOutlet	2775.25	2778.25	3.00	2773.93	-1.32	2777.19	-1.07	0.00	0.00
2	Structure - (541)	2775.15	2778.15	3.00	2775.11	-0.04	2778.37	0.22	0.00	0.00
3	Structure - (542)	2775.07	2778.33	3.26	2775.07	0.00	2778.33	0.00	0.00	0.00
4	Structure - (543)	2775.05	2778.31	3.26	2775.05	0.00	2778.31	0.00	0.00	0.00
5	Structure - (545)	2774.87	2778.12	3.25	2774.86	-0.01	2778.12	0.00	0.00	0.00
6	Structure - (546)	2774.86	2778.12	3.26	2774.86	0.00	2778.12	0.00	0.00	0.00
7	Structure - (547)	2774.80	2778.06	3.26	2774.80	0.00	2778.06	0.00	0.00	0.00
8	Structure - (548)	2774.71	2777.97	3.26	2774.71	0.00	2777.97	0.00	0.00	0.00
9	Structure - (549)AP	2774.68	2779.22	4.54	2774.68	0.00	2779.22	0.00	0.00	0.00
10	Structure - (550)	2774.65	2778.98	4.33	2774.65	0.00	2778.98	0.00	0.00	0.00
11	Structure - (551)	2774.53	2777.53	3.00	2774.48	-0.05	2777.74	0.21	0.00	0.00
12	Structure - (552)	2774.45	2777.45	3.00	2774.42	-0.03	2777.68	0.23	0.00	0.00
13	Structure - (553)	2774.40	2777.40	3.00	2774.39	-0.01	2777.65	0.25	0.00	0.00
14	Structure - (554)	2774.39	2777.64	3.25	2774.38	-0.01	2777.64	0.00	0.00	0.00
15	Structure - (555)	2774.33	2777.58	3.25	2774.32	0.00	2777.58	0.00	0.00	0.00
16	Structure - (556)	2774.33	2777.57	3.24	2774.31	-0.01	2777.57	0.00	0.00	0.00
17	Structure - (557)	2774.31	2777.56	3.25	2774.30	-0.01	2777.56	0.00	0.00	0.00
18	Structure - (558)	2774.26	2777.52	3.26	2774.26	0.00	2777.52	0.00	0.00	0.00
19	Structure - (559)	2774.16	2777.42	3.26	2774.16	0.00	2777.42	0.00	0.00	0.00
20	Structure - (560)	2774.05	2777.31	3.26	2774.05	0.00	2777.31	0.00	0.00	0.00
21	Structure - (561)AP	2773.93	2778.44	4.51	2773.93	0.00	2778.44	0.00	0.00	0.00
22	Structure - (562)	2773.56	2776.82	3.26	2773.56	0.00	2776.82	0.00	0.00	0.00
23	Structure - (563)_Transition	2773.31	2779.09	5.78	2773.31	0.00	2779.09	0.00	0.00	0.00
24	Structure - (565)Transition	2772.98	2778.76	5.78	2772.98	0.00	2778.76	0.00	0.00	0.00
25	Structure - (566)	2772.76	2776.02	3.26	2772.76	0.00	2776.02	0.00	0.00	0.00
26	Structure - (567)	2772.25	2775.51	3.26	2772.25	0.00	2775.51	0.00	0.00	0.00

## Junction Results

SN Element ID	Peak Inflow	Max HGL Elevation	Max HGL Depth Attained	Max Surcharge Depth Attained	Min Freeboard Attained	Average HGL Elevation Attained	Average HGL Depth Attained	Total Flooded Volume
	(cfs)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ac-in)
1 Structure - (540)BeehiveSiphonOutlet	24.00	2777.62	2.37	0.00	1.13	2777.62	2.37	0.00
2 Structure - (541)	24.00	2777.56	2.41	0.00	1.09	2777.56	2.41	0.00
3 Structure - (542)	24.00	2777.73	2.66	0.00	0.84	2777.73	2.66	0.00
4 Structure - (543)	24.00	2777.71	2.66	0.00	0.84	2777.71	2.66	0.00
5 Structure - (545)	24.00	2777.46	2.59	0.00	0.93	2777.46	2.59	0.00
6 Structure - (546)	24.00	2777.39	2.53	0.00	0.97	2777.39	2.53	0.00
7 Structure - (547)	24.00	2777.42	2.62	0.00	0.88	2777.42	2.62	0.00
8 Structure - (548)	24.00	2777.33	2.62	0.00	0.88	2777.33	2.62	0.00
9 Structure - (549)AP	24.00	2777.27	2.59	0.00	1.95	2777.27	2.59	0.00
10 Structure - (550)	24.00	2777.21	2.56	0.00	1.77	2777.21	2.56	0.00
11 Structure - (551)	24.00	2777.09	2.56	0.00	0.94	2777.09	2.56	0.00
12 Structure - (552)	24.00	2776.83	2.38	0.00	1.12	2776.83	2.38	0.00
13 Structure - (553)	24.00	2776.97	2.57	0.00	0.93	2776.97	2.57	0.00
14 Structure - (554)	24.00	2777.01	2.62	0.00	0.87	2777.01	2.62	0.00
15 Structure - (555)	24.00	2776.95	2.63	0.00	0.88	2776.95	2.63	0.00
16 Structure - (556)	24.00	2776.84	2.52	0.00	0.98	2776.84	2.52	0.00
17 Structure - (557)	24.00	2776.83	2.52	0.00	0.98	2776.83	2.52	0.00
18 Structure - (558)	24.00	2776.81	2.55	0.00	0.95	2776.81	2.55	0.00
19 Structure - (559)	24.00	2776.74	2.58	0.00	0.92	2776.74	2.58	0.00
20 Structure - (560)	24.00	2776.69	2.64	0.00	0.86	2776.69	2.64	0.00
21 Structure - (561)AP	24.00	2776.57	2.64	0.00	1.86	2776.57	2.64	0.00
22 Structure - (562)	24.00	2776.18	2.62	0.00	0.88	2776.18	2.62	0.00
23 Structure - (563)_Transition	24.00	2775.93	2.62	0.00	3.16	2775.93	2.62	0.00
24 Structure - (565)Transition	24.00	2775.06	2.08	0.00	3.71	2775.06	2.08	0.00
25 Structure - (566)	24.00	2774.84	2.08	0.00	1.42	2774.84	2.08	0.00
26 Structure - (567)	24.00	2774.28	2.03	0.00	1.47	2774.28	2.03	0.00

# Pipe Input

SN	Element ID	Length (ft)	Inlet Invert Elevation (ft)	Outlet Invert Elevation (ft)	Average Slope (%)	Pipe Diameter or Height (in)	Manning's Roughness	Entrance Losses	Exit/Bend Losses	Initial Flow (cfs)
1	Pipe - (518)	112.37	2775.25	2775.15	0.0900	42.000	0.0130	0.6000	0.6000	0.00
2	Pipe - (519)	94.52	2775.15	2775.07	0.0800	42.000	0.0130	0.6000	0.6000	0.00
3	Pipe - (520)	30.12	2775.07	2775.05	0.0700	42.000	0.0130	0.6000	0.6000	0.00
4	Pipe - (522)	255.00	2775.05	2774.87	0.0700	42.000	0.0130	0.6000	0.6000	0.00
5	Pipe - (523)	20.06	2774.89	2774.86	0.1500	42.000	0.0130	0.6000	0.6000	0.00
6	Pipe - (524)	79.90	2774.86	2774.80	0.0800	42.000	0.0130	0.6000	0.6000	0.00
7	Pipe - (525)	131.12	2774.80	2774.71	0.0700	42.000	0.0130	0.6000	0.6000	0.00
8	Pipe - (526)	42.25	2774.71	2774.68	0.0700	42.000	0.0130	0.6000	0.6000	0.00
9	Pipe - (527)	40.88	2774.68	2774.65	0.0700	42.000	0.0130	0.6000	0.6000	0.00
10	Pipe - (528)	164.97	2774.65	2774.53	0.0700	42.000	0.0130	0.6000	0.6000	0.00
11	Pipe - (529)	91.54	2774.53	2774.45	0.0900	42.000	0.0130	0.6000	0.6000	0.00
12	Pipe - (530)	44.86	2774.45	2774.40	0.1100	42.000	0.0130	0.6000	0.6000	0.00
13	Pipe - (531)	20.84	2774.40	2774.39	0.0700	42.000	0.0130	0.6000	0.6000	0.00
14	Pipe - (532)	87.74	2774.39	2774.33	0.0700	42.000	0.0130	0.6000	0.6000	0.00
15	Pipe - (533)	11.90	2774.34	2774.33	0.0800	42.000	0.0130	0.6000	0.6000	0.00
16	Pipe - (534)	19.74	2774.33	2774.31	0.0800	42.000	0.0130	0.6000	0.6000	0.00
17	Pipe - (535)	61.70	2774.31	2774.26	0.0800	42.000	0.0130	0.6000	0.6000	0.00
18	Pipe - (536)	136.54	2774.26	2774.16	0.0700	42.000	0.0130	0.6000	0.6000	0.00
19	Pipe - (537)	154.23	2774.16	2774.05	0.0700	42.000	0.0130	0.6000	0.6000	0.00
20	Pipe - (538)	177.93	2774.05	2773.93	0.0700	42.000	0.0130	0.6000	0.6000	0.00
21	Pipe - (539)	529.31	2773.93	2773.56	0.0700	42.000	0.0130	0.6000	0.6000	0.00
22	Pipe - (541)	364.19	2773.56	2773.31	0.0700	42.000	0.0130	0.6000	0.6000	0.00
23	Pipe - (542)-RCP	36.90	2773.31	2772.98	0.8900	48.000	0.0150	0.6000	0.6000	0.00
24	Pipe - (543)	167.99	2772.98	2772.76	0.1300	42.000	0.0130	0.6000	0.6000	0.00
25	Pipe - (544)	363.60	2772.76	2772.25	0.1400	42.000	0.0130	0.6000	0.6000	0.00
26	Pipe - (545)	184.43	2772.25	2771.99	0.1400	42.000	0.0130	0.6000	0.6000	0.00

## Pipe Results

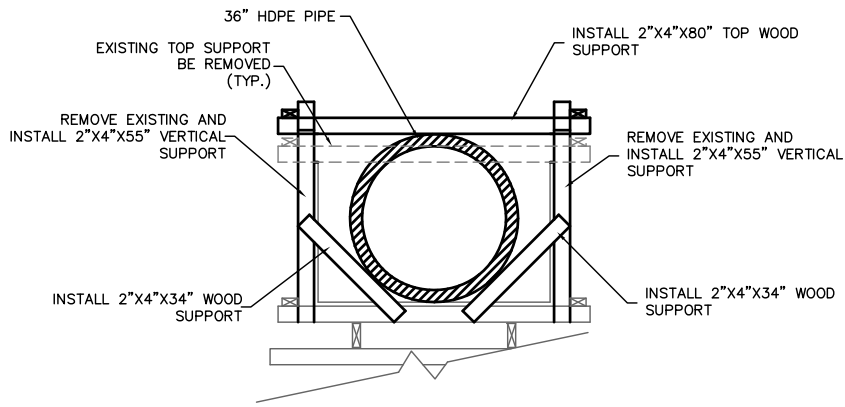
SN Element ID	Peak Flow	Design Flow Capacity	Peak Flow/ Design Flow Ratio	Peak Flow Velocity	Travel Time	Peak Flow Depth	Peak Flow Depth/ Total Depth Ratio	Froude Number	Reported Condition
	(cfs)	(cfs)		(ft/sec)	(min)	(ft)			
1 Pipe - (518)	24.00	30.01	0.80	3.47	0.54	2.37	0.68		Calculated
2 Pipe - (519)	24.00	29.27	0.82	3.39	0.46	2.41	0.69		Calculated
3 Pipe - (520)	24.00	25.93	0.93	3.06	0.16	2.66	0.76		Calculated
4 Pipe - (522)	24.00	26.73	0.90	3.14	1.35	2.59	0.74		Calculated
5 Pipe - (523)	24.00	38.91	0.62	4.25	0.08	1.99	0.57		Calculated
6 Pipe - (524)	24.00	27.57	0.87	3.23	0.41	2.53	0.72		Calculated
7 Pipe - (525)	24.00	26.36	0.91	3.10	0.70	2.62	0.75		Calculated
8 Pipe - (526)	24.00	26.81	0.90	3.15	0.22	2.59	0.74		Calculated
9 Pipe - (527)	24.00	27.25	0.88	3.19	0.21	2.55	0.73		Calculated
10 Pipe - (528)	24.00	27.14	0.88	3.18	0.86	2.56	0.73		Calculated
11 Pipe - (529)	24.00	29.74	0.81	3.44	0.44	2.38	0.68		Calculated
12 Pipe - (530)	24.00	33.59	0.71	3.79	0.20	2.19	0.63		Calculated
13 Pipe - (531)	24.00	26.99	0.89	3.17	0.11	2.57	0.73		Calculated
14 Pipe - (532)	24.00	26.31	0.91	3.10	0.47	2.63	0.75		Calculated
15 Pipe - (533)	24.00	29.17	0.82	3.38	0.06	2.42	0.69		Calculated
16 Pipe - (534)	24.00	27.74	0.87	3.24	0.10	2.52	0.72		Calculated
17 Pipe - (535)	24.00	28.64	0.84	3.33	0.31	2.45	0.70		Calculated
18 Pipe - (536)	24.00	27.23	0.88	3.19	0.71	2.55	0.73		Calculated
19 Pipe - (537)	24.00	26.87	0.89	3.16	0.81	2.58	0.74		Calculated
20 Pipe - (538)	24.00	26.13	0.92	3.08	0.96	2.64	0.76		Calculated
21 Pipe - (539)	24.00	26.60	0.90	3.13	2.82	2.60	0.74		Calculated
22 Pipe - (541)	24.00	26.36	0.91	3.10	1.96	2.62	0.75		Calculated
23 Pipe - (542)-RCP	24.00	117.72	0.20	7.35	0.08	1.23	0.31		Calculated
24 Pipe - (543)	24.00	36.41	0.66	4.04	0.69	2.08	0.59		Calculated
25 Pipe - (544)	24.00	37.68	0.64	4.15	1.46	2.03	0.58		Calculated
26 Pipe - (545)	24.00	37.58	0.64	4.14	0.74	2.03	0.58		Calculated

## **Exhibit E**

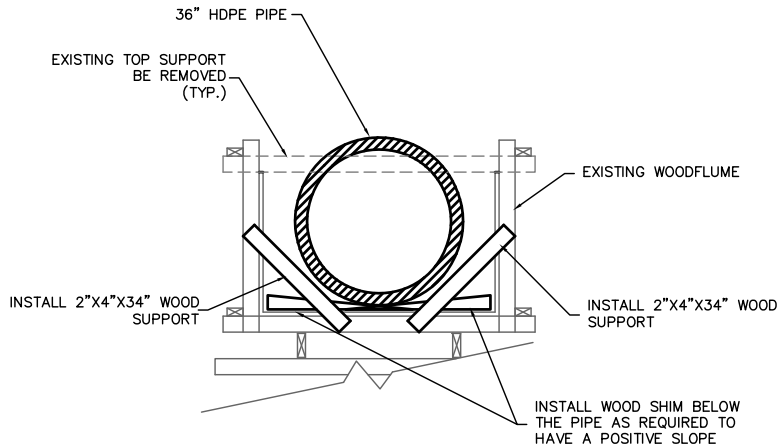
*Wood Flume Detail*

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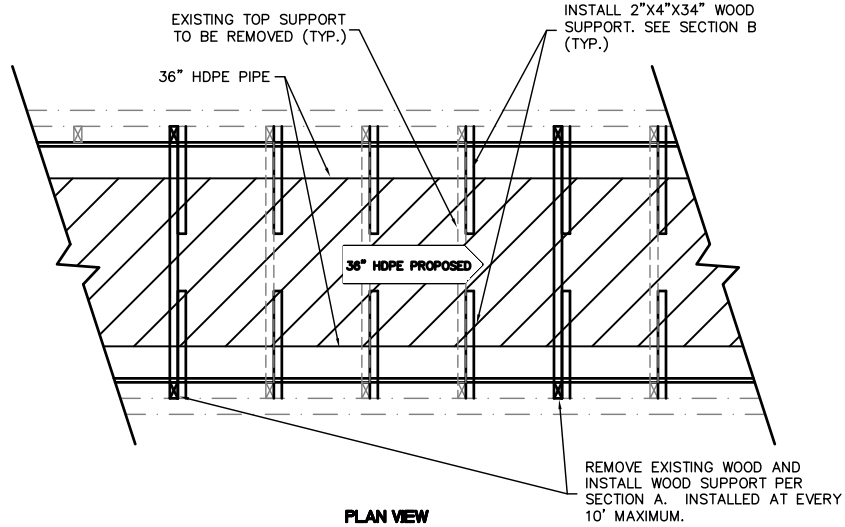




**SECTION A**



**SECTION B**



**PLAN VIEW**



111 MISSION RANCH BLVD. SUITE 100, CHICO, CA 95926  
 PHONE: (530) 893-1600 www.northstareng.com

**NORTH YUBA WATER DISTRICT**  
 8691 LA PORTE ROAD  
 BROWNSVILLE, CALIFORNIA 95919

**WOOD FLUME MODIFICATION DETAIL**

**FORBESTOWN DITCH**

Job Number  
 17-002

NT&  
 Horiz

Scale

N/A  
 Vert.

Date:

Sheet 1 Of 1