



Attachment E

Stormwater Design Report

Stormwater Management Report Phases II-III Accelerated Closure Southeast County Landfill Hillsborough County, Florida



Hillsborough County
Solid Waste Management Department (SWMD)
332 N. Falkenburg Road
Tampa, FL 33619

Florida Board of Professional Engineers
Certificate No. 00004892

SCS ENGINEERS

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3922 Coconut Palm Drive, Suite 102
Tampa, FL 33619
813-621-0080

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INTRODUCTION

This Stormwater Management Report was prepared by SCS Engineers (SCS) for the Southeast County Landfill (SCLF) Phase I-VI Closure Design. The Phase I-VI Closure Design was developed as part of a Phases II-III Accelerated Closure permit application that will be incorporated into the active SCLF solid waste operations permit to satisfy conditions of Alternate Procedure SWAP19-1. In order to develop a more functional and cohesive closure design for the Phases II-III Accelerated Closure permit application, SCS has developed a closure design, plans, and model based on closure of the entirety of Phase I-VI.

Although a site-wide Conceptual Environmental Resource Permit (CERP) application for the SCLF was approved by the FDEP in 2008, the model was not used to size structures within the Phase I-VI landfill footprint. Therefore, SCS has subdivided the original five basins on Phase I-VI into over forty sub-basins. The overall post-development conditions of the Phase I-VI area will not deviate from the conditions approved as part of the 2008 CERP.

The purpose of this report is to provide a summary of the proposed stormwater design associated with the Phase I-VI final closure, which includes the implementation of downchutes, top slope berms, midslope berms, and an access road swale as part of the design stormwater system. SCS used Interconnected Channel and Pond Routing (ICPR) modeling software v.4.07.08 to model the drainage patterns of the stormwater management system to ensure its components provide adequate capacity to convey a 25-year/24-hour duration rain event, and rainfall depth of 8.40 inches.

This Phase I-VI Closure model was then compared to the results of the ICPR model associated with the 2008 site-wide CERP No. 29-0270881-004 to ensure the refined stormwater design does not exceed the currently permitted post-development peak flow values at Ponds B and D. A summary of this comparison can be found in the Results section of this report.

EXISTING CONDITIONS

A site-wide CERP application was approved by the FDEP in 2008 for the SCLF. Under this permit, modifications to the existing stormwater ponds of Phases I-VI and the proposed stormwater ponds/conveyances may be authorized. This approved permit submittal included Stormwater Management Plans with the Phases I-VI final buildout divided into a total of five drainage basins. A terrace and downchute system was proposed to direct stormwater runoff off the Phase I-VI footprint.

Currently the stormwater management system at SCLF is comprised of the following drainage areas that include Sedimentation Ponds A-2, A-3, 2, 3, 4, 8, Ponds A-1, B, C, D, E, F, G, H and a series of perimeter conveyance ditches. Stormwater runoff flows through the stormwater system to Pond B and Pond D, the furthest downstream stormwater ponds that are existing, which subsequently convey flow to surface water features that are referred to as mine cuts. These mine cuts, which are located entirely on site, are remnants of site-wide phosphate mining activities conducted by the previous land owner (Agrico Chemical Company) from the 1940's through the early 1980's. **Appendix A** contains a figure of the current stormwater ponds and conveyance features at the SCLF.

The three mine cuts (Mine Cut 1, Mine Cut 2, and Mine Cut 3) convey water counterclockwise around the site and ultimately discharge at the northwest corner of the property through NPDES Outfall No. 001 into a tributary of Long Flat Creek. Long Flat Creek flows in a northerly direction before discharging into the Alafia River. See **Appendix B** for the Approved Drainage Basin Plan of SCLF.

For the purpose of this report, the ICPR model associated with the approved 2008 CERP will be used to compare the refined Phase I-VI stormwater design model. **Table 1** shows the stormwater basin areas used in the approved 2008 CERP.

Table 1. Approved Drainage Basins (2008 CERP)

Basin Name	Area (acres)	Outlet	Location
PH 1	40.4	Pond B	Phase I-VI
PH 2A	10.5	Pond B	Phase I-VI
PH 4	26.0	Pond B	Phase I-VI
A-1	5.0	Pond B	Perimeter
A-2	14.0	Pond B	Perimeter
A-3	9.1	Pond B	Perimeter
B	7.5	Pond B	Perimeter
F	1.3	Pond B	Perimeter
G	0.6	Pond B	Perimeter
PH 2	30.2	Pond D	Phase I-VI
PH 3	17.1	Pond D	Phase I-VI
PH 56	36.0	Pond D	Phase I-VI
Sec 12	8.6	Pond D	Landfill Expansion Area
Sec 13	24.3	Pond D	Landfill Expansion Area
Sed 2	16.4	Pond D	Perimeter
Sed 3	11.1	Pond D	Perimeter
Sed 4	17.9	Pond D	Perimeter
Sed 8	0.5	Pond D	Perimeter
D	31.5	Pond D	Perimeter
Total Area:	308		

POST DEVELOPMENT CONDITIONS

The proposed post-development conditions reflect the final “build-out” upon completion of the 162.4 acre Phase I-VI Landfill final closure. The closure design structures within the Phase I-VI footprint have been designed to handle a 25-year/24-hour duration rain event. The design consists of top slope berms, midslope berms, downchutes and an access road swale to direct stormwater off Phases I-VI and into the existing site-wide stormwater system. No improvements are proposed outside the Phase I-VI footprint; therefore, the existing stormwater system as described in the previous section is not affected. Peak outflow from Pond B and Pond D have not increased, as shown in the Results section of this report. Further detail for each proposed stormwater conveyance structure is provided in the narrative below and within the Phase I-VI Closure Design Drawings. Information regarding the updated ICPR model can be found in the following section.

The final cover system at the top (crown) of the Phase I-VI closure area is designed to be at a 5% slope with side slopes no greater than 4(H):1(V). Stormwater runoff on the final cover system will travel downslope to a series of berms. These berms are designed with depth of two feet to provide adequate storage capacity. Stormwater will be conveyed at an approximate 2% slope along the

berms to downchutes. Additionally, a geocomposite drain system will be installed throughout the crown portion of the final cover system to direct stormwater that has infiltrated through the soil cover off of the closure liner and into the downchutes. Drain pipes in the geocomposite will be installed upslope of each proposed midslope berm to re-direct stormwater off the liner system and into its respective downchute. Although these geocomposite drains collect a minimal amount of infiltrated water (less than 0.3 inches of depth), they are critical to prevent saturation of the cover soil which could lead to veneer stability failure.

The proposed downchutes are designed to be open channel trapezoids with a top width of 19 feet, a bottom width of 7 feet, and side slopes of 3(H):1(V) providing adequate storage capacity. The downchutes will be lined with grout filled fabric revetment (GFFR), which consists of a fabric envelope in a mat configuration filled with a pumpable sand/cement grout to form a stable mat surface of suitable weight and configuration. A series of gabion walls and GFFR armoring will be installed at the toe of the downchutes to act as energy dissipators in order to prevent soil erosion. Additionally, the proposed access road swale will be three feet wide, two feet deep, with a 3:1 slope on both sides of the swale. Like the downchutes, the access road swale will be GFFR-lined and will direct stormwater runoff from the permanent access road off the closure area and into its respective downchute. The access road will traverse the Phase I and Phase II side slope in a counter-clockwise direction until reaching the top of the landfill, providing access to closed portions of the landfill.

Vegetative cover (sod) will be placed on the final cover slopes of the SCLF. This vegetative cover will minimize erosion and reduce soil loss from the final cover system. The final cover system will be regularly inspected in accordance with the Phase I-VI Long-Term Care Plan and erosion damage or vegetative stress will be repaired before significant erosion is developed. For additional design information, the Phase I-VI Closure Design Drawings have been included as Attachment A of the Phases II-III Accelerated Closure Permit Application dated February, 2022 (bound separately).

ICPR MODEL PARAMETERS

The post-development hydraulic conditions for all contributing area to Ponds B and D, including the Phase I-VI closure design and conceptual Capacity Expansion Area were simulated using ICPR modeling software. Drainage basins (referred to as Basins and Sub-Basins in ICPR) were delineated for each existing and proposed conveyance structure. These drainage basins are listed below in **Table 2**. The model concludes at Ponds B and D as these two ponds are the two furthest downstream ponds to which the stormwater within Phases I-VI travels. Existing perimeter stormwater ditches, conveyance structures, and sedimentation/stormwater ponds were also incorporated into the Phase I-VI Closure model using a topographic survey provided by Pickett (surveyor) dated July 29, 2021, as-built information from the permitted 2008 conceptual site-wide design, and input data from the approved 2008 CERP model.

Table 2 shows the areas of drainage basins used in the current stormwater model. Note, these basins, with the exception of Section 12 and 13, were delineated using the previously mentioned topographic survey and as-built information as well as the Phase I-VI Closure stormwater management plan associated with the Phase IVI Closure design. Section 12 and 13 drainage basins were delineated using the footprint and section boundaries of the Capacity Expansion Area, proposed final grades and the permitted 2008 Drainage Basin Plan. As can be seen, both **Table 1** and **Table 2** give a total area of approximately 308 acres, with a resulting difference of 0.6 acres (0.2%) between the two total areas. This minor difference is within an acceptable range and is to be expected when accounting for rounding error and drainage basin delineation computing differences between the 2008 Drainage Basin Plan and the updated drainage areas. Post-development drainage maps associated with the Phase I-VI Closure model can be found as **Figures C.1 through C.6** in **Appendix C**.

Table 2. Phase I-VI Closure Drainage Basins (2022)

Basin Name	Area (acres)	Outlet	Location
B7-A	1.3	Pond B	Downchute 7
Q - R	9.6	Pond B	Downchute 8
Z08 - O - P	12.2	Pond B	Downchute 9
Z07- N - M	25.9	Pond B	Downchute 10
Z06 - Z09 - K - L	26.8	Pond B	Downchute 11
J	5.1	Pond B	Downchute 1
Z05 - H - I	4.0	Pond B	Perimeter
Sed A-2	13.8	Pond B	Perimeter
Sed A-3	8.7	Pond B	Perimeter
SE Ditch	7.6	Pond B	Perimeter
NE Ditch	2.3	Pond B	Perimeter
Pond F	1.6	Pond B	Perimeter
Pond G	1.1	Pond B	Perimeter
Pond B	7.0		Perimeter
NW Ditch	2.3	Pond D	Perimeter
SW Ditch	0.5	Pond D	Perimeter
Z05 - H - I	9.5	Pond D	Downchute 2
Z04 - F - G	15.1	Pond D	Downchute 3
Z03 - D - E	20.7	Pond D	Downchute 4
Z02 - B - C	16.0	Pond D	Downchute 5
Z01 - A - S	11.0	Pond D	Downchute 6
Sec 12	10.5	Pond D	CEA
Sec 13	22.4	Pond D	CEA
Sed 4	16.3	Pond D	Perimeter
Sed 3	10.1	Pond D	Perimeter
Sed 2	4.9	Pond D	Perimeter
Sed 8	10.8	Pond D	Perimeter
Pond D	31.5		Perimeter
Total Area	308.6		

Nodes and Channel Links were utilized to develop a “Link-Node network”, with Links modeling each downchute and berm and Nodes modeling the adjoining point of each downchute and berm. Furthermore, the model incorporated the same parameters as the approved 2008 CERP model including the Natural Resource Conservation Service (NRCS) Unit Hydrograph 484 for the drainage basins inside the Phase I-VI footprint, and Unit Hydrograph 256 for the drainage basins of the perimeter ditches and ponds. These hydrographs simulated the direct runoff generated over each drainage basin at a constant rate during the specified time interval using the Soil Conservation Service Curve Number Method (CN) and an 8.40-inch rainfall depth. Lastly, elevation warning stages were assigned for each node. These warning stages were set two feet (the design depth for each

structure) higher than the upstream and downstream elevation for each berm and downchute within the Phase I-VI footprint, ultimately showing if the 25-year/24-hour duration rain event would overtop the berms or downchutes. The following section contains a summary of the model outputs. **Appendix D** includes ICPR schematic drawings as **Figures D.1 through D.5**, inputs, outputs, and model references. The Phase I-VI Closure Stormwater design is portrayed in the Phase I-VI Closure Design Drawings, included as Attachment A of the Phases II-III Accelerated Closure Permit Application.

As previously mentioned, Section 12 and 13 drainage basins were delineated using the current footprint, proposed final landfill elevations, section boundaries of the Capacity Expansion Area, and the permitted 2008 Drainage Basin Plan. Downchutes in these basins were modeled using design information of the downchutes in the Phase I-VI Closure design and inputs from the 2008 CERP model where applicable (length, slope, and invert elevations). Other conveyance structures in this area generally followed the 2008 CERP model, though width and depth values had to be increase in the Phase I-VI closure model, to eliminate structure overflow.

RESULTS

Stormwater runoff along the top of the closed landfill will flow to a series of berms along the edge of crown. These berms are sized to convey the peak runoff from a 25-year/24-hour duration rain event. A typical detail for the top slope berms is included in **Appendix E** as **Figure E.1**. To avoid erosion of the cover, the shear stress for vegetation and underlying substrates were calculated on the berm section with the largest peak flow. The shear stresses were analyzed using North American Green, Erosion Control Materials Design Software Version 7.0 with sod grass and no reinforcement. Results are included as **Appendix E** and show the channel to be stable with a factor of safety of 3.14. **Table 3** below shows the maximum flow and velocity along each of the top slope berms.

Table 3. Top Slope Berms Peak Flows and ICPR Results

Basin Name	Top Slope Berm	Erosion Control	Peak Flow (cfs)	Max Velocity (fps)	Warning Stage (ft)	Max Stage (ft)
Z01-A	L-0680C	Sod	14.62	3.17	226.26	223.71
Z01-B	L-0670C	Sod	14.24	1.44	237.64	236.65
Z01-B	L-1700C	Sod	12.99	3.13	226.26	223.71
Z02-A	L-1400C	Sod	23.51	3.01	225.75	224.72
Z02-B	L-1330C	Sod	24.88	3.30	225.75	224.72
Z03-A	L-0230C	Sod	38.37	3.89	225.75	224.30
Z03-B	L-2340C	Sod	42.51	3.94	225.75	224.30
Z04-A	L-1170C	Sod	23.52	2.98	225.00	224.00
Z04-B	L-1180C	Sod	27.18	3.32	225.00	224.00
Z05-A	L-0460C	Sod	7.73	2.86	225.00	223.45
Z05-B	L-0500C	Sod	5.21	2.62	225.00	223.45
Z06-A	L-0570C	Sod	35.12	3.56	225.75	224.87
Z06-B	L-0630C	Sod	30.67	3.13	225.75	224.87
Z07-A	L-1060C	Sod	38.23	3.29	225.75	224.98
Z07-B	L-1070C	Sod	35.13	3.06	225.75	224.98
Z08-A	L-0360C	Sod	14.02	1.25	229.34	228.47

Z08-A	L-1580C	Sod	11.90	2.94	225.58	224.21
Z08-B	L-0350C	Sod	12.34	1.09	226.24	225.33
Z08-B	L-1590C	Sod	11.16	2.93	225.58	224.21

Stormwater runoff along the side slopes of the closed landfill will flow to a series of berms that flow to the downchutes. These berms are sized to convey the peak runoff from a 25-year/24-hour duration rain event. A typical detail for the midslope berms is included in **Appendix E** as **Figure E**. To avoid erosion of the cover, the shear stress for vegetation and underlying substrates were calculated on the midslope berm section with the largest peak flow. The shear stresses were analyzed using North American Green, Erosion Control Materials Design Software Version 7.0 with sod grass and no reinforcement. Results are included as **Appendix E** and show the channel to be stable with a factor of safety of 2.29. **Table 4** below shows the maximum flow and velocity along each of the midslope berms.

Table 4. Midslope Berms Peak Flows and ICPR Results

Basin Name	Midslope Berm	Erosion Control	Peak Flow (cfs)	Max Velocity (fps)	Warning Stage (ft)	Max Stage (ft)
A01	L-0740C	Sod	9.05	2.91	138.2	137.42
A02	L-0710C	Sod	3.66	2.28	173.93	172.93
A03	L-0700C	Sod	7.96	3.58	194	192.81
B01	L-1360C	Sod	11.22	2.78	137.9	137.44
B02	L-1350C	Sod	7.82	2.55	179	178.33
B03	L-1340C	Sod	8.73	3.4	208.92	207.98
C01	L-1370C	Sod	15.33	3	137.9	137.44
C02	L-1380C	Sod	8.38	2.51	179	178.33
C03	L-1390C	Sod	12.87	3.67	203.92	203.11
D01	L-0300C	Sod	15.33	1.42	135.5	135.41
D02	L-0280C	Sod	13.45	2.62	168	167.66
D03	L-0260C	Sod	16.724	2.85	202	201.52
E01	L-0290C	Sod	7.99	1.41	135.5	135.41
E02	L-0270C	Sod	6.92	1.7	172	171.56
E03	L-0250C	Sod	9.45	2.34	202	201.52
F01	L-1240C	Sod	4.21	1.35	146.19	145.63
F02	L-1220C	Sod	7.21	2.13	163	162.41
F03	L-1200C	Sod	12.33	3.42	192	191.27
G01	L-1230C	Sod	7.64	1.87	140	139.5
G02	L-1210C	Sod	9.38	2.57	163	162.41
G03	L-1190C	Sod	15.99	3.92	192	191.27
H01	L-0490C	Sod	8.64	3	139	137.14
H02	L-0480C	Sod	7.32	3.28	169	167.94
H03	L-0470C	Sod	8.85	3.65	199	197.75

I01	L-0530C	Sod	9.69	3.24	139	137.14
I02	L-0520C	Sod	8.01	3.39	169	167.94
I03	L-0510C	Sod	9.09	3.68	199	197.75
J01	L-1300C	Sod	12.25	3.9	136	130.63
J02	L-1290C	Sod	10.63	3.81	164	162.5
J03	L-1280C	Sod	5.41	3.33	192.41	190.67
K01	L-0610C	Sod	11.76	2.55	160	159.7
K02	L-0620C	Sod	17.4	0.82	205.2	205.2
K03	L-1600C	Sod	32.83	4.3	194	193.55
L01	L-0600C	Sod	8.23	3.6	138	129.03
L02	L-0590C	Sod	11.85	2.77	164	163.55
L03	L-0580C	Sod	14.65	3.44	197.18	196.45
M01	L-1120C	Sod	11.14	2.2	136.92	136.65
M02	L-1110C	Sod	10.61	2.39	164	163.55
M03	L-1080C	Sod	19.64	4.14	194	193.4
N01	L-1130C	Sod	11.58	2.29	136.92	136.65
N02	L-1100C	Sod	11.6	2.36	162	161.63
N03	L-1090C	Sod	17.74	3.72	194	193.4
O01	L-0400C	Sod	8.14	1.37	137.7	137.12
O02	L-0390C	Sod	9.14	3.67	164.22	162.92
O03	L-0370C	Sod	15.03	4.07	194.04	192.88
P01	L-0420C	Sod	6.82	1.49	137.7	137.12
P02	L-0410C	Sod	6.86	3.48	164.22	162.92
P03	L-0380C	Sod	6.56	3.45	194.04	192.88
Q01	L-1530C	Sod	6.78	1.98	139.15	137.29
Q02	L-1510C	Sod	9.51	3.46	161.9	160.95
Q03	L-1500C	Sod	17.58	4.21	192.8	192.76
R01	L-1570C	Sod	3.38	3.02	139.15	137.29
R02	L-1520C	Sod	8.84	3.54	163.92	162.87
R03	L-1490C	Sod	19.78	1.47	192.8	192.76
S01	L-0730C	Sod	8.22	2.76	138.2	137.42
S02	L-1480C	Sod	4.63	3.19	171	163.06
S03	L-0690C	Sod	12.65	3.92	191.07	190.03
B7-A	L-0870C	Sod	8.15	3.59	154.03	151.96

For ICPR modeling purposes each section of the downchute was divided into segments, where it meets a berm outlet into the downchute. The downchute's maximum peak flows and velocities (for each section/node) are summarized below in **Table 5**. Downchutes were sized to manage peak runoff from a 25-year/24-hour duration rain event without overtopping. According to the ICPR model for the design storm, all warning stage elevations were met and no overflow will occur. For a more detailed breakdown of the results see **Appendix D**.

Table 5. Downchutes and Access Road Swale Peak Flows

Structure	Erosion Control	Peak Flow (cfs)	Max Velocity (fps)
Downchute 1	GFFR	23.51	12.46
Downchute 2	GFFR	61.61	20.83
Downchute 3	GFFR	100.90	15.59
Downchute 4	GFFR	139.44	16.72
Downchute 5	GFFR	105.59	15.93
Downchute 6	GFFR	69.83	14.05
Downchute 7	GFFR	8.14	3.08
Downchute 8	GFFR	63.06	13.43
Downchute 9	GFFR	60.03	11.20
Downchute 10	GFFR	130.98	16.32
Downchute 11	GFFR	126.61	16.98
Access Road Swale	GFFR	25.70	6.84

Table 6 below provides the comparison of the max stage and warning stage elevations from the approved 2008 CERP model (which also represents current site conditions for this analysis) and the model associated with the Phase I-VI closure stormwater design. The 2008 CERP values below were taken from the permitted 2008 ICPR Model outputs provided as **Appendix F**. As can be seen, the proposed improvements do not increase the permitted max total outflow values of Pond B and Pond D. Additionally, Pond D's max stage elevation is not increased as a result of the proposed Phase I-VI Closure design improvements and Pond B's max stage elevation is increased a negligible amount (0.09ft) while remaining over four feet under the warning stage. The slight increase in Pond B's max stage elevation can be attributed to the fact that the downchute configuration of the Phase I-VI Closure stormwater design varies from the 2008 CERP design, and as such, Pond A-3 receives a significantly higher max inflow than what is shown in the 2008 CERP model results (177.49 cfs vs 18.14 cfs). This results in a 67% increase in Pond A-3 outflow; 26.29 cfs (Phase I-VI Closure model) vs. 15.66 cfs (2008 CERP model). It is also worth noting that the 2008 CERP model was created using ICPR v3, which is no longer supported by Streamline Technologies, Inc, whereas the Phase I-VI Closure model was created using ICPR v.4.07.08.

Table 6. Comparison of 2008 Permitted Discharge and Phase I-VI Closure Model Design

Name of Pond	2008 Permitted Post-Development			Phase I-VI Closure Post-Development		
	Max Total Outflow (cfs)	Max Stage (ft)	Warning Stage (ft)	Max Total Outflow (cfs)	Max Stage (ft)	Warning Stage (ft)
Sed Pond 2	120.62	123.18	125	72.13	123.12	125
Sed Pond 3	73.16	127.46	130	178.62	123.90	130
Sed Pond 4	115.71	130.90	132	116.02	129.04	132
Sed Pond 8	120.95	120.42	125	179.45	120.16	125
Pond D	34.88	115.43	116	31.22	114.75	116
Pond F	4.55	126.34	128	5.26	127.94	128
Pond G	5.37	125.76	127	1.75	126.64	127
Pond A-1	13.13	127.38	128	10.26	125.80	128
Sed Pond A-2	13.44	125.33	126	7.95	125.73	126
Sed Pond A-3	15.66	125.24	126	26.29	125.74	126
Pond B	70.69	125.65	130	70.15	125.74	130

CONCLUSION

The ICPR model of the refined stormwater design for the SCLF Phase I-VI Closure Design will not increase the Pond B and Pond D max total outflow as shown in the previous section. Additionally, the proposed stormwater system successfully conveys and contains the design storm through the proposed structures on the landfill and existing conveyance features outside of the Phase I-VI footprint, as displayed in the Phase I-VI Closure ICPR model results. Therefore, the implementation of the post-development downchutes, berms, and access road swale on Phase I-VI will be sufficient to handle the design storm. These features will function to direct stormwater runoff, reducing infiltration into the landfill and mitigating erosion of the final landfill closure system.

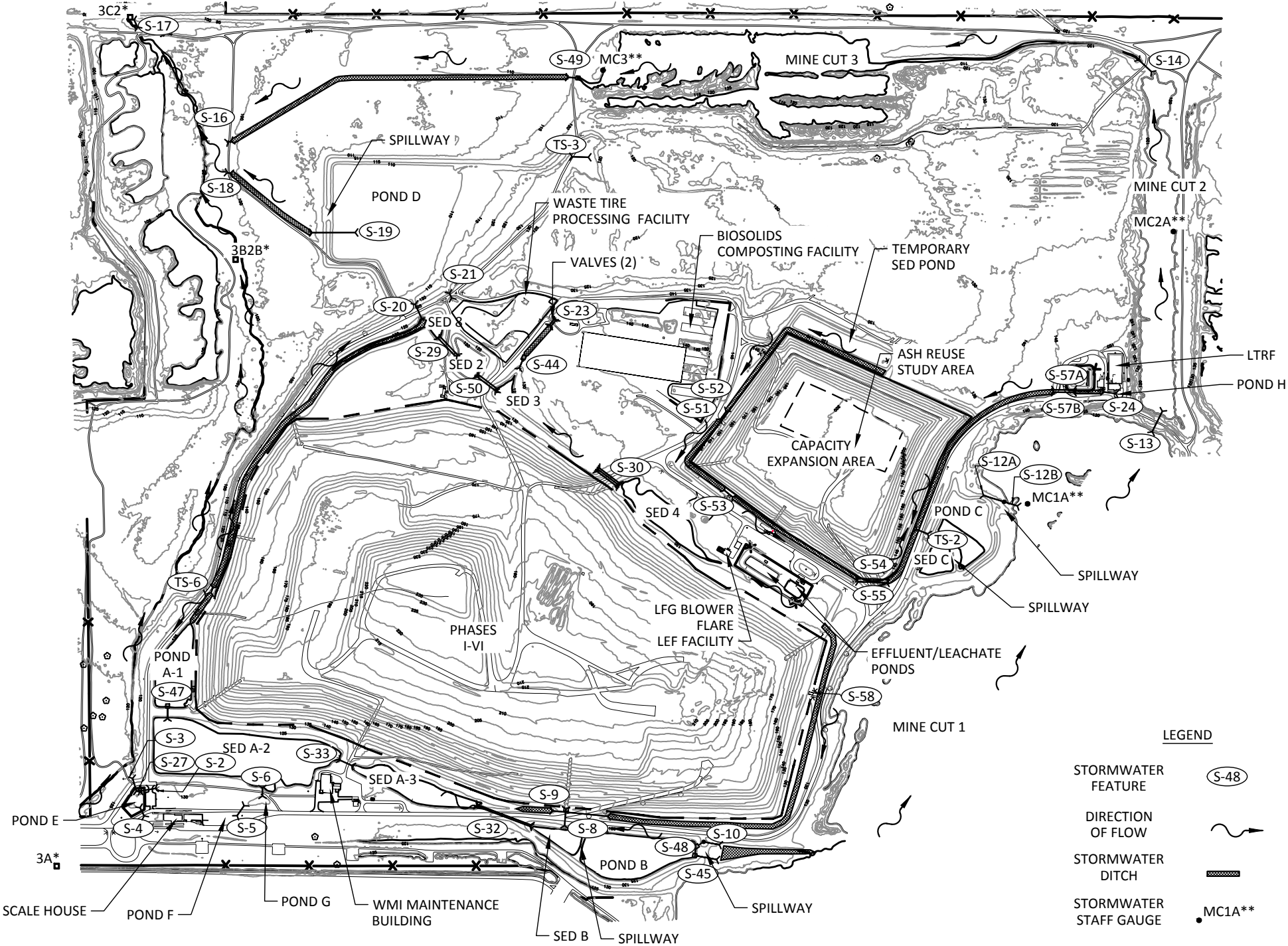


Appendix A

Stormwater Feature Map

EXISTING STORMWATER PIPE DATA TABLE

STRUCTURE NO	TYPE OF STRUCTURE	DIAMETER (IN)	LENGTH (FT)
S-2	ERCP	14x22	92.38
S-3	CMP	36.00	81.19
S-4	ERCP	14x22	47.87
S-5	ERCP	14x22	73.39
S-6	ERCP	14x22	50
S-8	ERCP	34x54	100.67
	ERCP	34x54	100.39
S-9	CMP	24.00	343.74
S-10	RCP	48.00	100.06
S-12A	RCP	30.00	169.40
S-12B	RCP	48.00	50.37
S-13	RCP	24.00	104.48
	RCP	24.00	104.56
S-14	RCP	24.00	104.90
	RCP	24.00	104.90
S-16	STEEL	24 (W)-21 (E)	22.04
	STEEL (E)-ECMP (W)	21 (E)-22x24 (W)	20.98
S-17	RCP	48.00	50.51
	RCP	48.00	50.71
S-18	CMP	18.00	19.89
S-19	RCP	48.00	161.35
S-20	CMP	48.00	90.98
	CMP	48.00	91.11
S-21	RCP	36.00	34.84
S-23	HDPE	8.00	41.00
	HDPE	8.00	41.00
S-24	ERCP	12x18	91.04
S-27	CMP	18.00	24.15
S-29	RCP	30.00	114.00
	RCP	30.00	114.00
	RCP	36.00	119.00
S-30	RCP	36.00	119.00
	RCP	36.00	119.00
S-32	ERCP	24x38	355.00
	ERCP	24x38	355.00
S-33	RCP	36.00	81.00
S-44	HDPE	8.00	60.00
	HDPE	8.00	60.00
S-45	RCP	36x60	75.00
S-47	RCP	30.00	66.00
S-48	RCP	48.00	29.00
S-49	RCP	42.00	48.00
S-50	RCP	30.00	108.00
	RCP	30.00	108.00
S-51	RCP	36.00	50
S-52	RCP	36.00	50
S-53	RCP	3x6 BOX	27
S-54	HDPE	30.00	175
S-55	HDPE	30.00	175
S-57A	RCP	24.00	136
S-57B	RCP	24.00	136
S-58	CMP	12.00	40.34
	CMP	12.00	40.16
	CMP	12.00	40.27
TS-2	BOX CULVERT	48x96	74.73
TS-3	RCP	18.00	98.07
TS-6	METAL	20.00	29.65
	CMP	36.00	19.59



SOURCE: TOPOGRAPHIC SURVEY PROVIDED BY PICKETT & ASSOCIATES. JANUARY 6, 2020

SCS ENGINEERS

FIGURE 1. STORMWATER FEATURE MAP
SOUTHEAST COUNTY LANDFILL - HILLSBOROUGH COUNTY, FLORIDA

Appendix B
Approved Drainage Basin Plan
(2008 by Others)

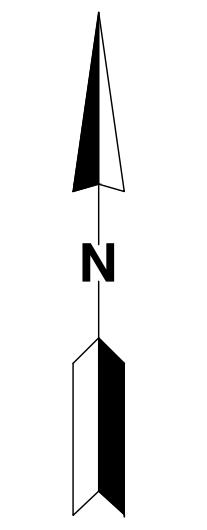
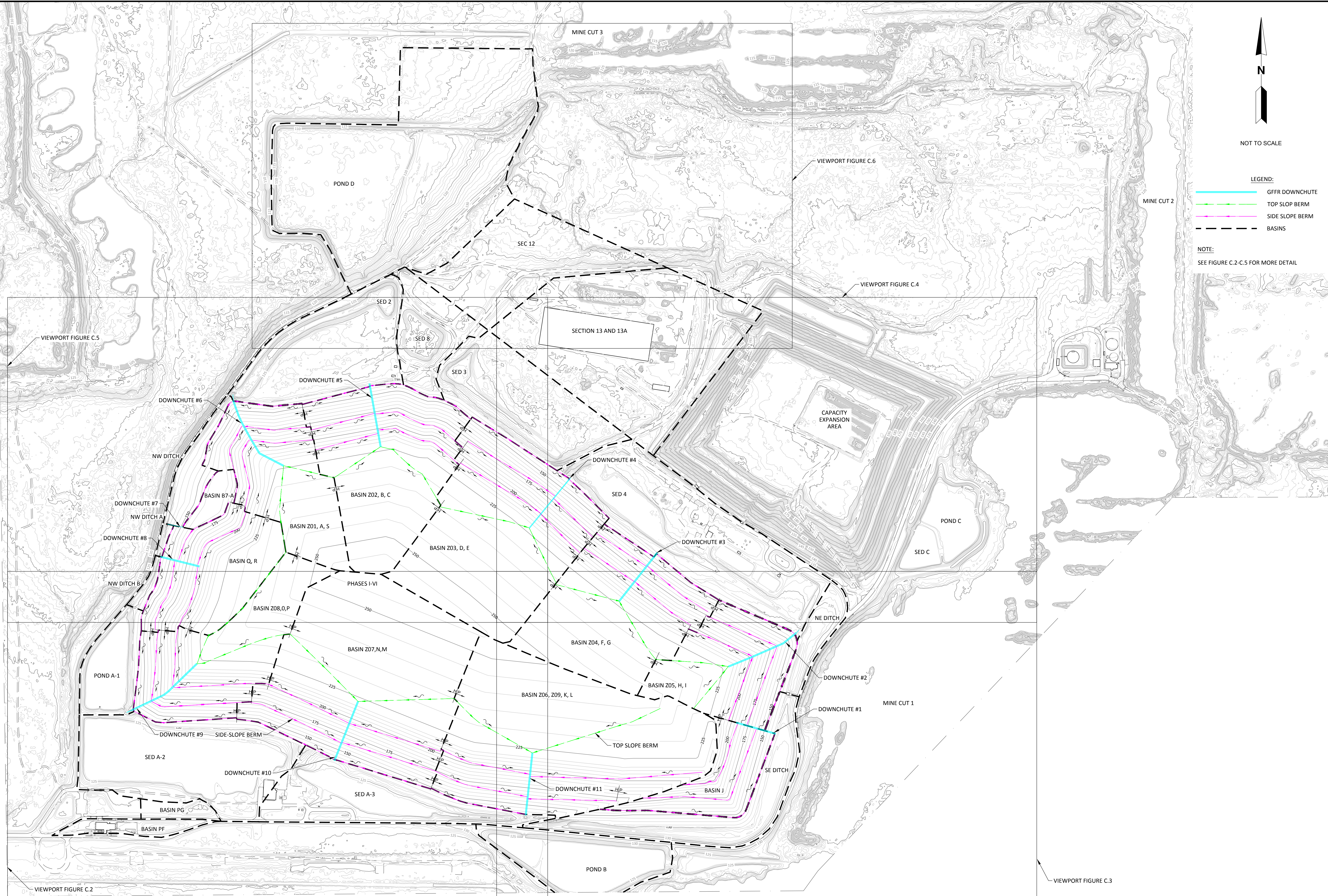




Appendix C

Post-Development Drainage Maps

F:\PROJECT\Hillsborough\02156000\Task 1100 - General Services\2010 Phase I-V Closure Permit\Closure Design\Stormwater Calculation\CAL Data and Calculations\CAL 4.0\SELF Closure - Drainage Area MassZong Feb 01, 2022 - 3:15pm Layout Name: C1 By: 4765ad

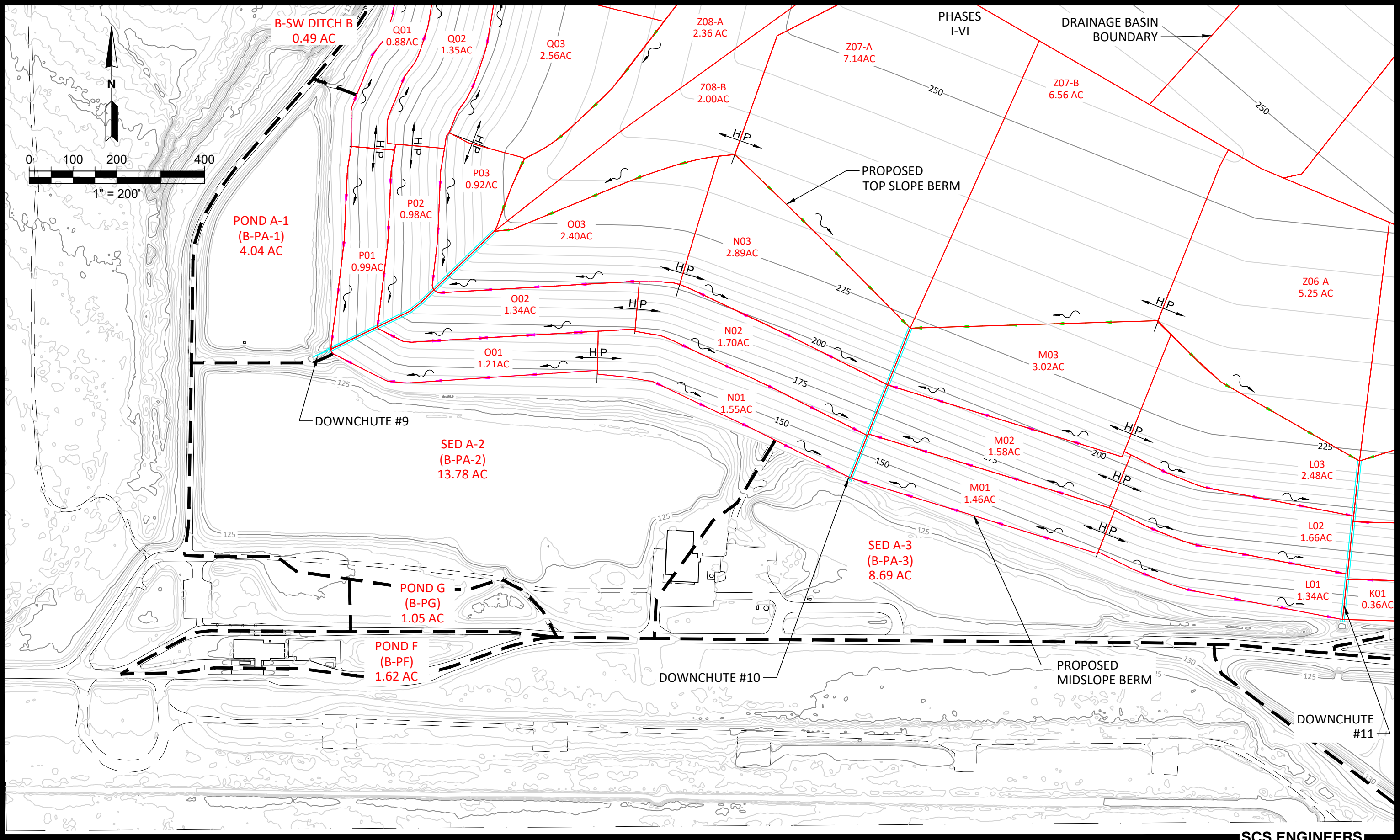


NOT TO SCALE

- LEGEND:
- GFRR DOWNCHUTE
 - TOP SLOPE BERM
 - SIDE SLOPE BERM
 - BASINS

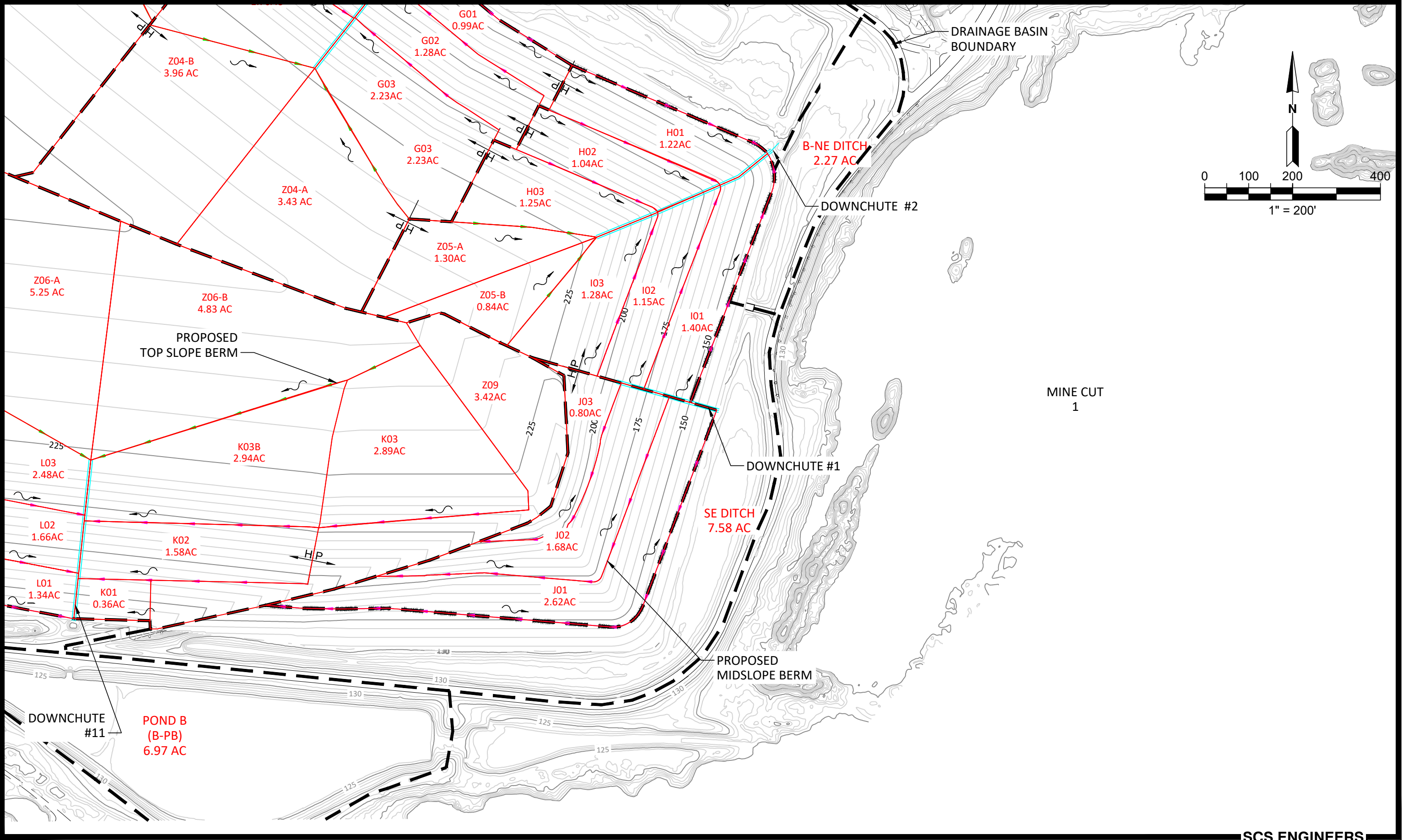
NOTE:
SEE FIGURE C.2-C.5 FOR MORE DETAIL

SOUTHEAST COUNTY LANDFILL - POST-DEVELOPMENT DRAINAGE MAP - FIGURE C.1

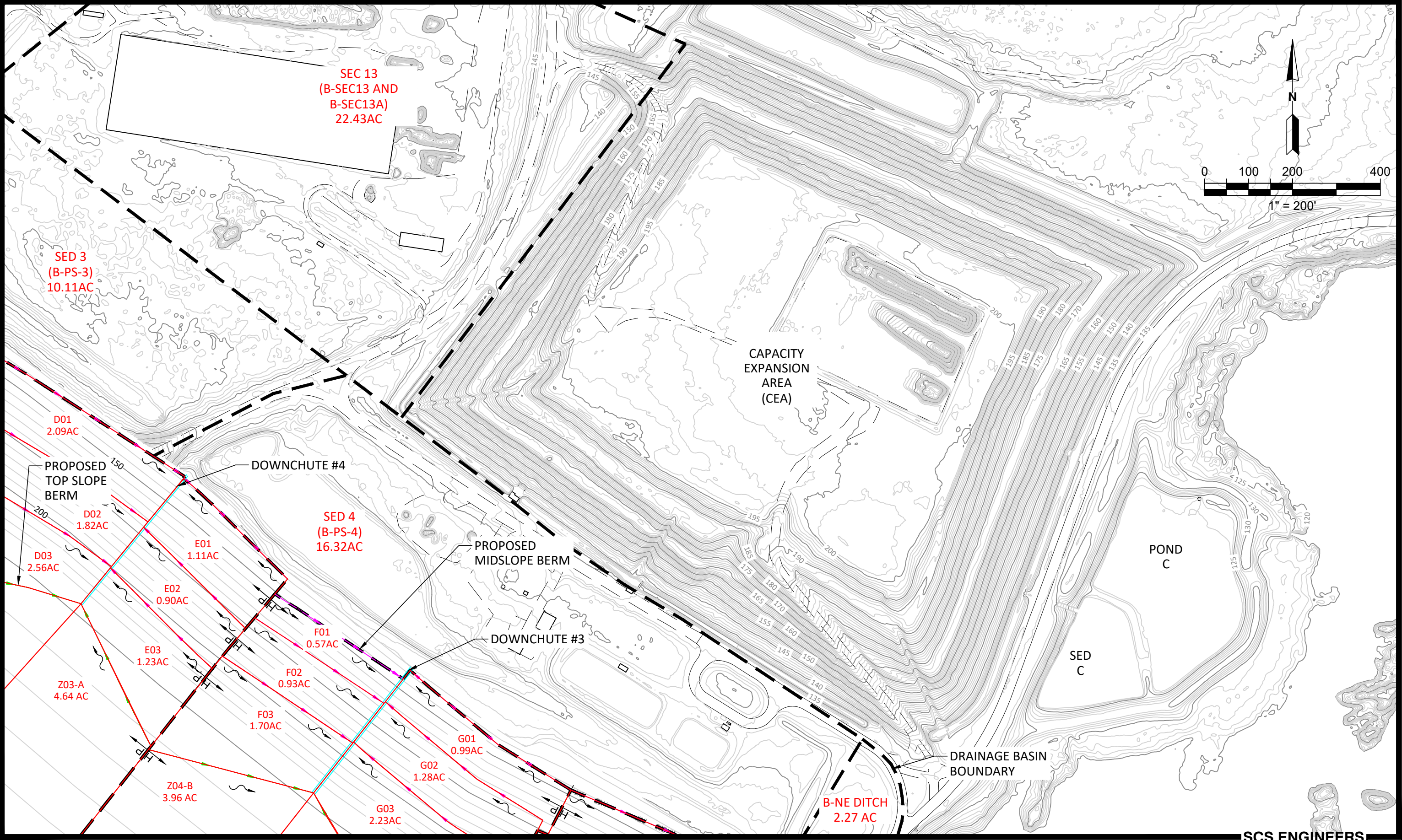


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SOUTHEAST COUNTY LANDFILL - POST-DEVELOPMENT DRAINAGE MAPS - FIGURE C.2

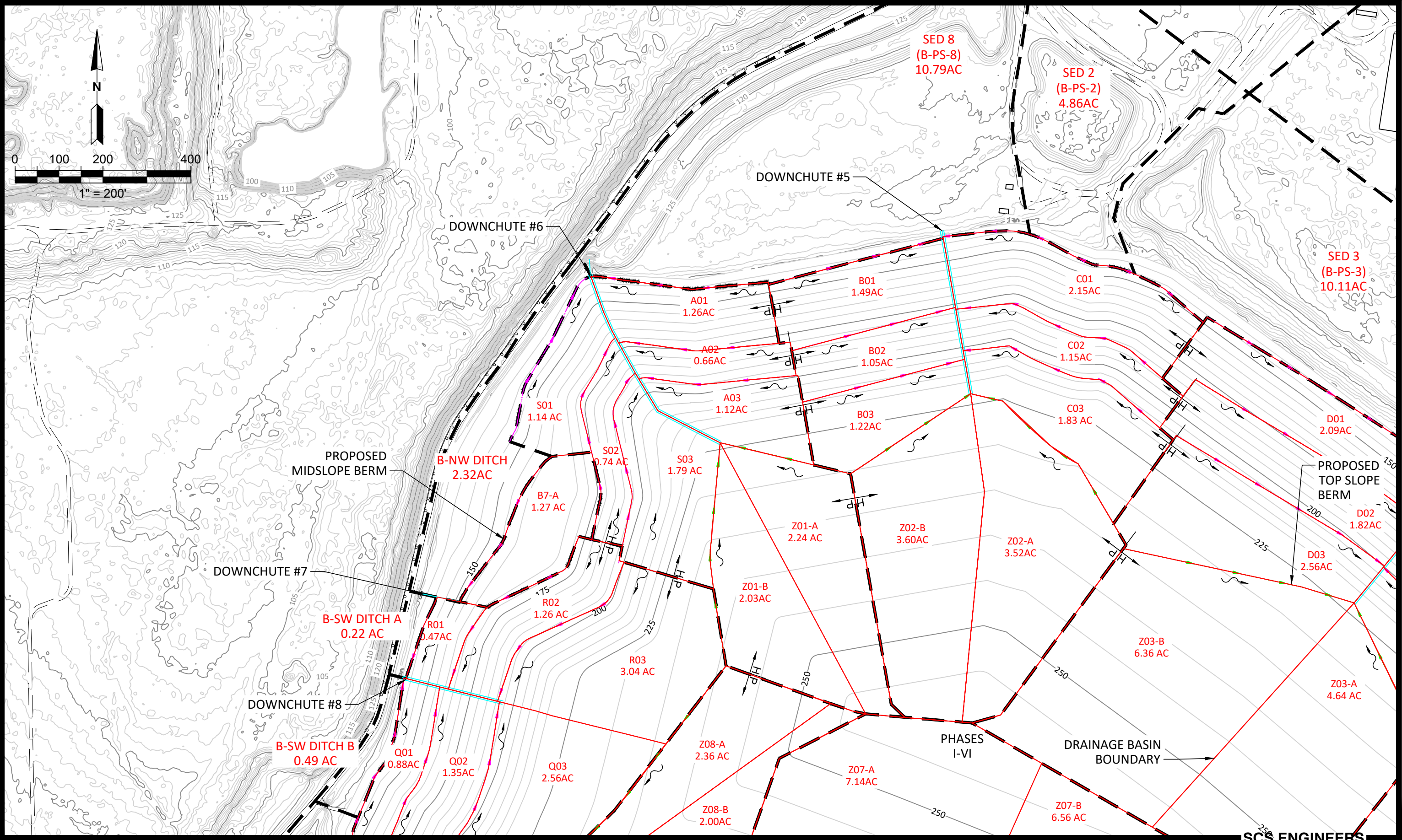


SOUTHEAST COUNTY LANDFILL - POST-DEVELOPMENT DRAINAGE MAPS - FIGURE C.3



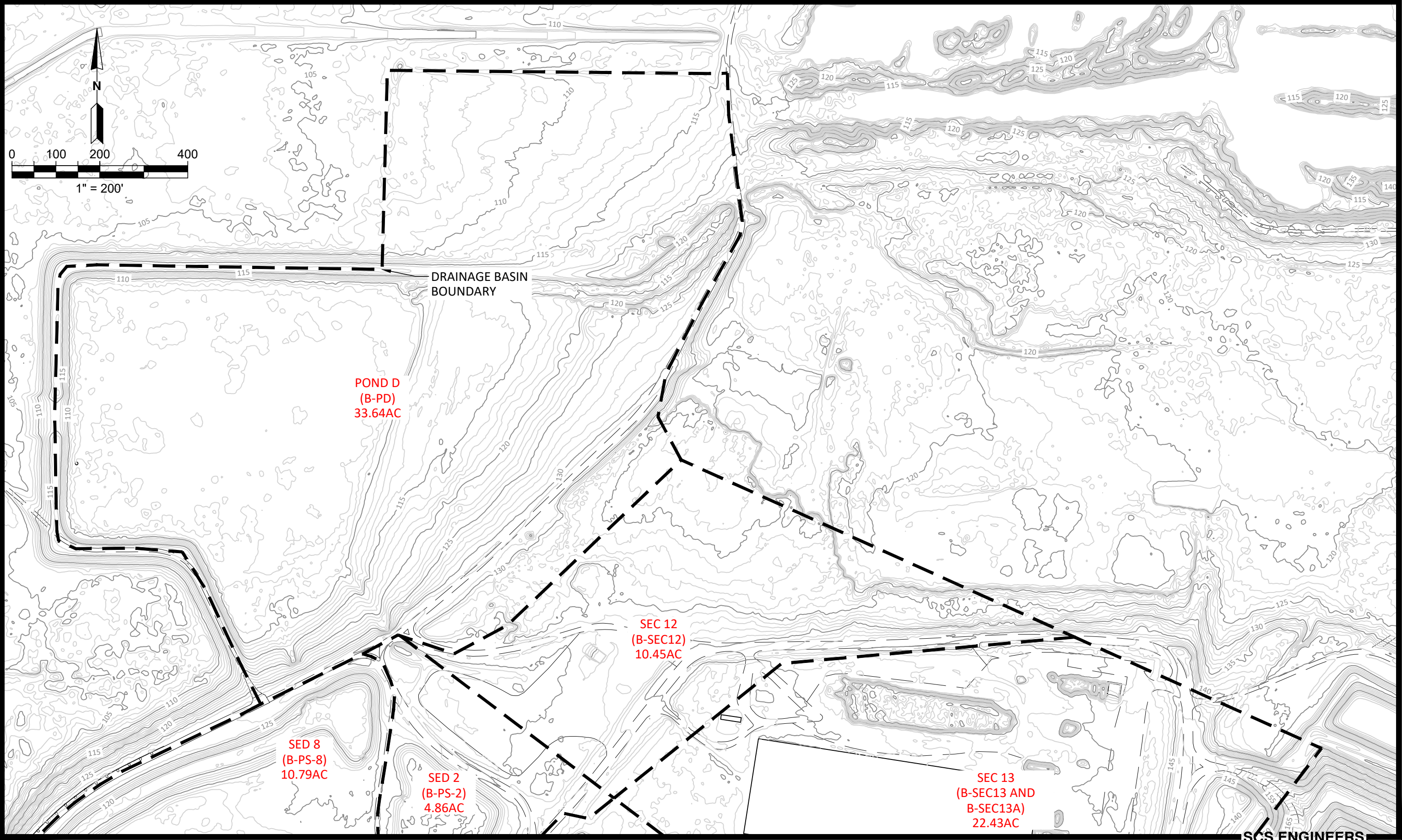
SCS ENGINEERS

SOUTHEAST COUNTY LANDFILL - POST-DEVELOPMENT DRAINAGE MAPS - FIGURE C.4



SCS ENGINEERS

SOUTHEAST COUNTY LANDFILL - POST-DEVELOPMENT DRAINAGE MAPS - FIGURE C.5



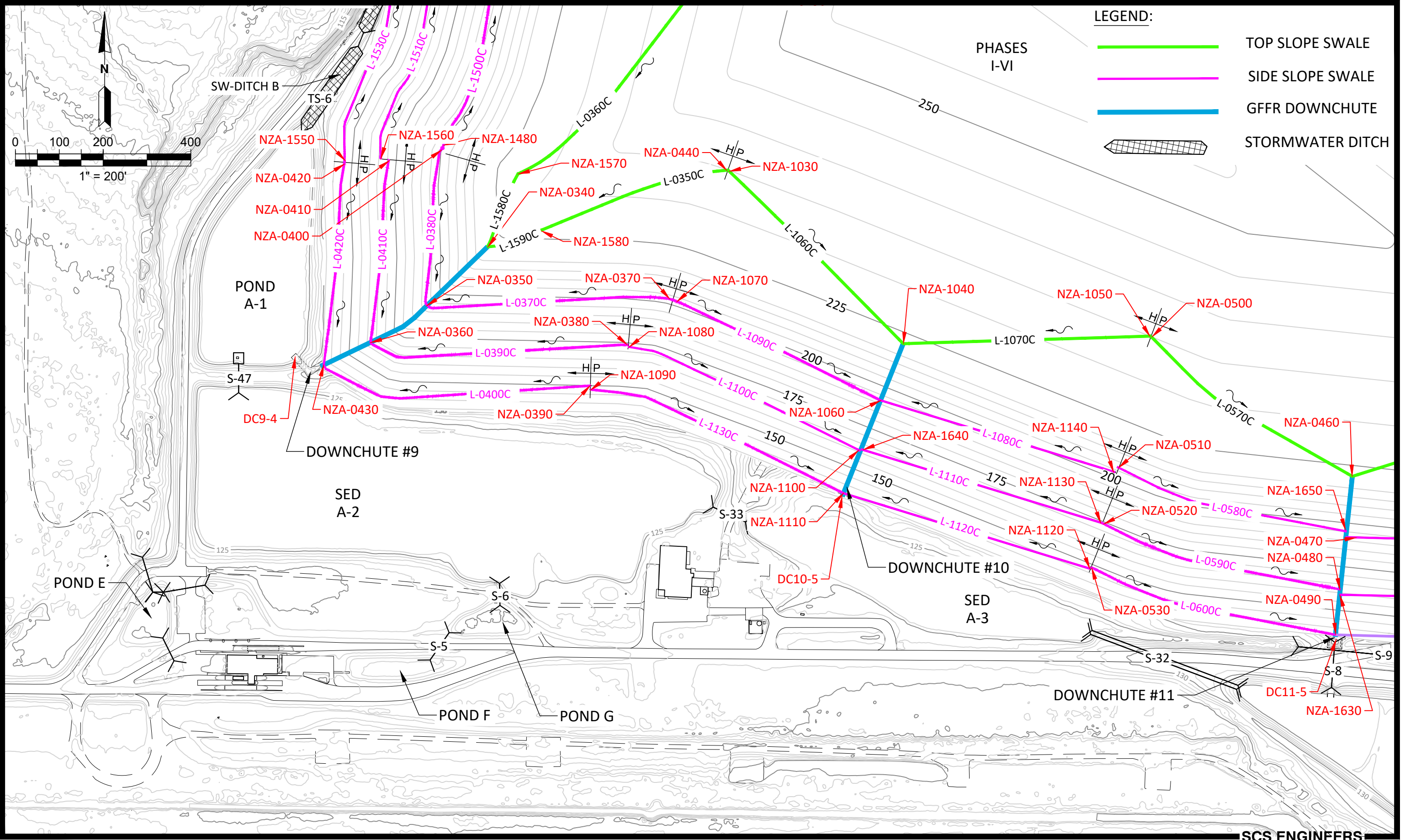
SOUTHEAST COUNTY LANDFILL - POST-DEVELOPMENT DRAINAGE MAPS - FIGURE C.6



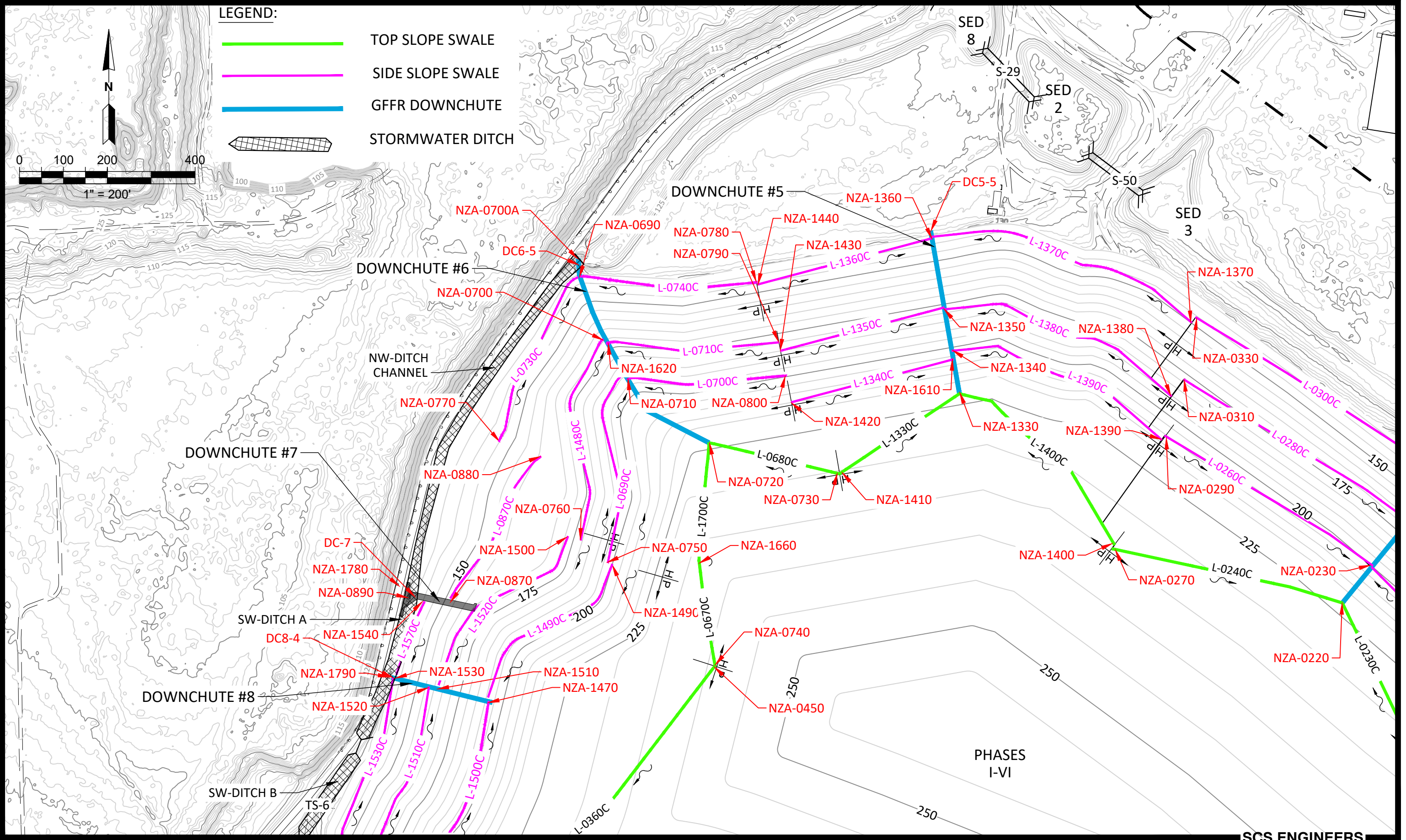
Appendix D

Phase I-VI Closure ICPR Model

ICPR Schematic Figures

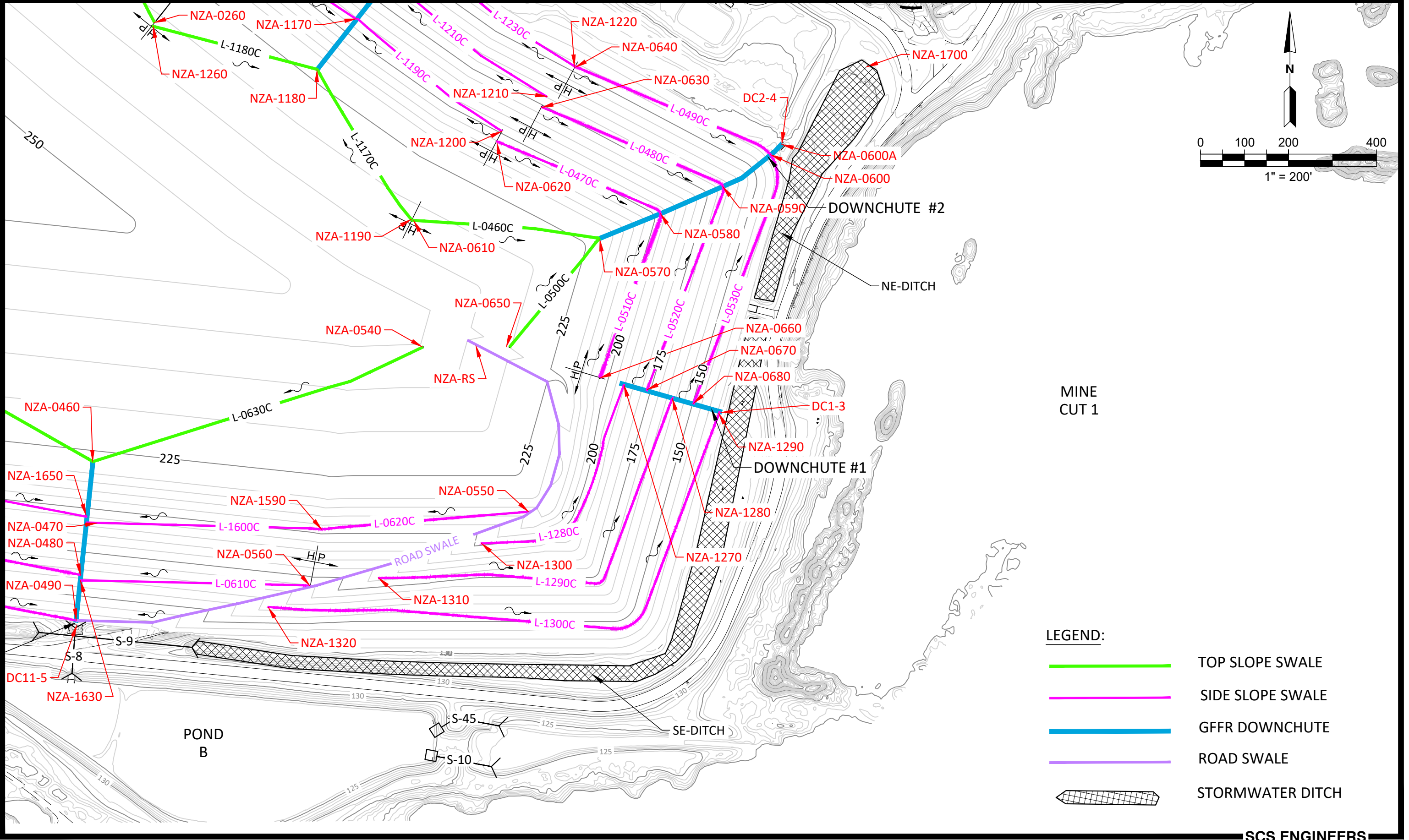


SOUTHEAST COUNTY LANDFILL STORMWATER FIGURE - ICPR SCHEMATIC FIGURE D.2



SOUTHEAST COUNTY LANDFILL STORMWATER FIGURE - ICPR SCHEMATIC FIGURE D.3

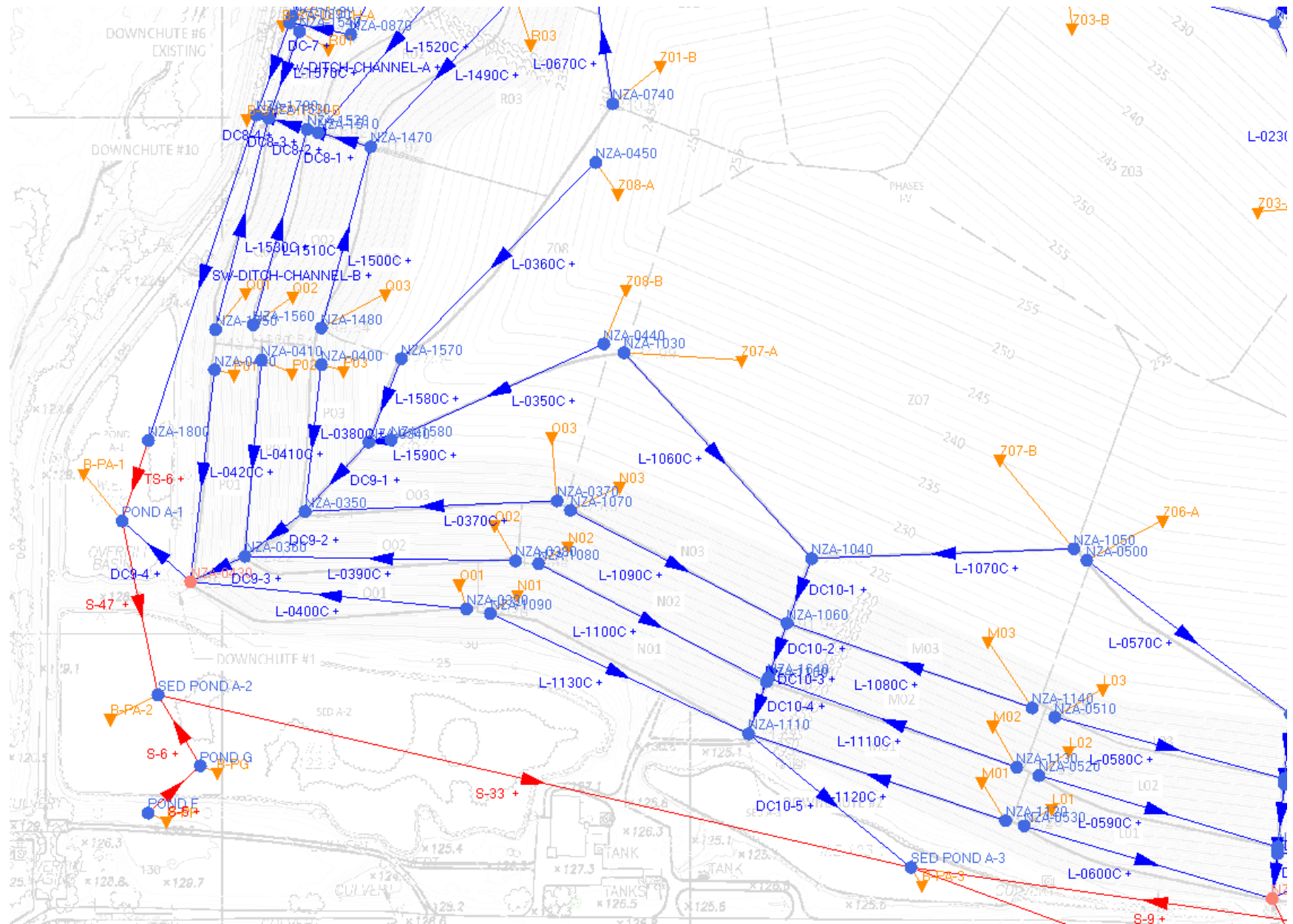
SCS ENGINEERS



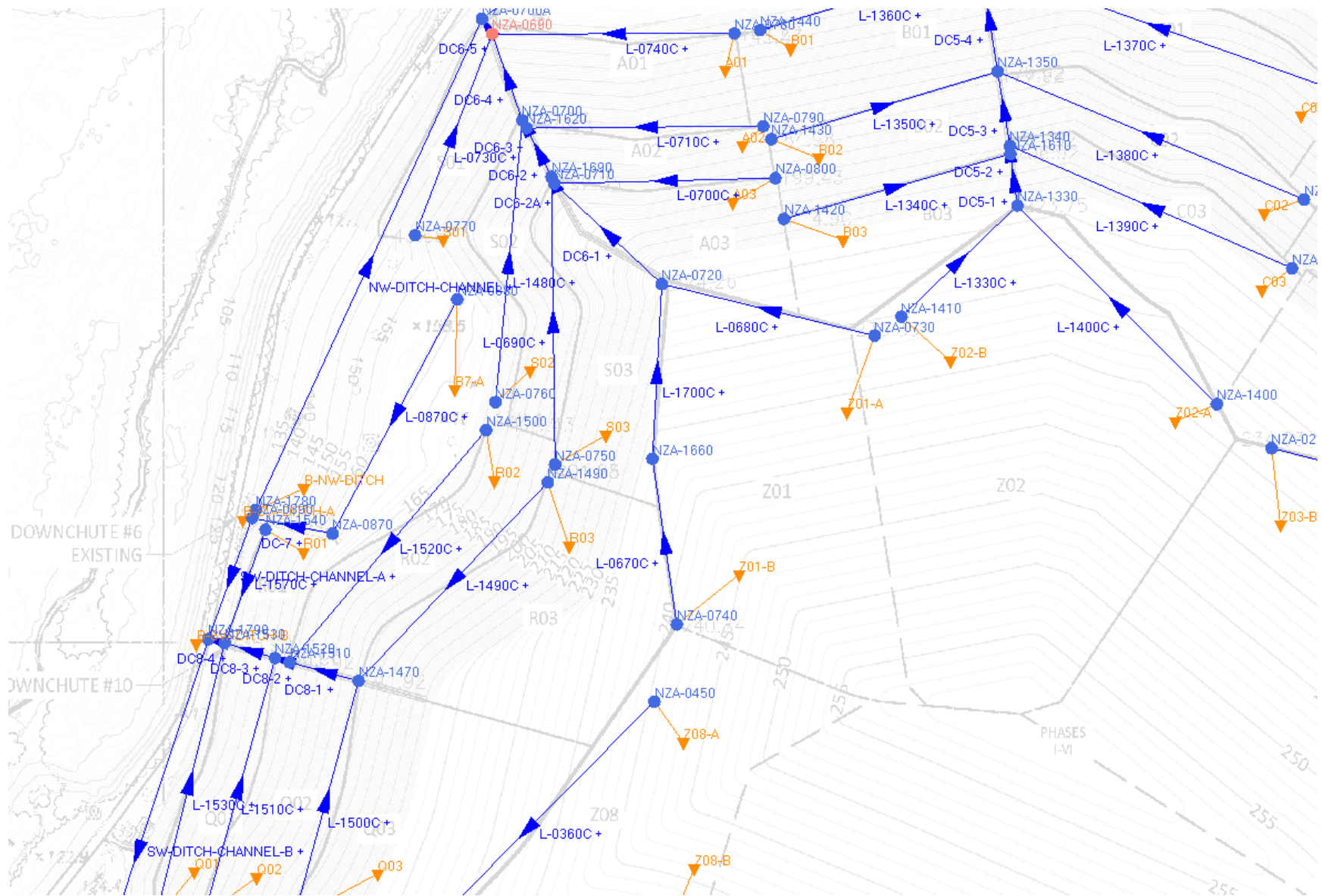
SOUTHEAST COUNTY LANDFILL STORMWATER FIGURE - ICPR SCHEMATIC FIGURE D.5

[illegible]

ZOOMED VIEWS – CLOCKWISE FROM NW CORNER



ZOOMED VIEWS – CLOCKWISE FROM NW CORNER



ICPR Inputs

CLIENT Hillsborough Southeast County Landfill	PROJECT Southeast County Landfill - Phase I-VI Closure	JOB NO. 09215600.13
SUBJECT Stormwater Analysis ICPR Model Inputs & Results	BY AV	DATE 12/15/2021
	CHECKED TAH	DATE 1/31/2021

Objective:

To determine if the proposed Phase I-VI closure design improvements pass the 25-year, 24-hour storm. Additionally, Pond B and Pond D max outflow values were evaluated to ensure their post development flows did not exceed their pre-development values.

Methodology:

Use ICPR to evaluate the stormwater system's capacity, peak flows, and max stage. This stormwater system includes the Phase I-VI limits and the existing system that discharges to Pond B and D, including the final buildout of the CEA.

Assumptions:

- 1.) The design storm is the 25-year, 24-hour rainfall event.
- 2.) The time of concentration (Tc) for each sub-basin within Phase I-VI is assumed to be 8 minutes. The TC for each pond basin was taken from the 2008 CERP model's inputs.
- 3.) Use SCSII-24 Rainfall of 8.40 in. for the 25-year, 24-hour storm. The approved 2008 CERP model included with ERP permit # ERP No. 29-0270881-004 used this value.
- 4.) CN = 74 for all sub-basins inside the Phase I-VI area (Good Condition Pasture - Gourp C Soil). - See attached
- 5.) Existing stormwater pond and structures information obtained from as-built drawings provided by others dated September 2010, Pickett topographic survey dated July 29, 2021, and approved 2008 CERP model
- 6.) Berms will be modeled with a constant slope of 2%. Each sub-basin will be modeled for runoff to enter the upstream portion of the channel.
- 7.) Length of berms calculated using Civil 3D AutoCAD.
- 8.) Berms channel manning n is 0.14 for grass ditches with flow > 0.7 ft (FDOT Drainage Manual, Table 2.2)
- 9.) Access Road swale manning n is 0.033 for GFFR roughened concrete (USGS Paper and FDOT Drainage Manual, Table 2.2)

Calculation

See Attachments for Basin map/ICPR schematic, ICPR input, ICPR output, and References.

Conclusion

The stormwater system passes the 25yr/24 hour storm and Pond B and Pond D's post-development flows do not exceed than their pre-development flows.

Simple Basin: A01

Scenario: Scenario 1
Node: NZA-0780
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 8.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 1.2600 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: A02

Scenario: Scenario 1
Node: NZA-0790
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 8.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 0.6600 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: A03

Scenario: Scenario 1
Node: NZA-0800
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 8.0000 min
Max Allowable Q: 9999.00 cfs

Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 1.1200 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: B-NE-DITCH

Scenario: Scenario 1
Node: NZA-1700
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 2.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 2.2700 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment: Contributing area to Northeast Ditch

Simple Basin: B-NW-DITCH

Scenario: Scenario 1
Node: NZA-1780
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 2.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 2.3200 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00

% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: B-PA-1

Scenario: Scenario 1
Node: POND A-1
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 6.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 4.0400 ac
Curve Number: 91.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment: Contributing area around pond A-1

Simple Basin: B-PA-2

Scenario: Scenario 1
Node: SED POND A-2
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 16.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 13.7800 ac
Curve Number: 85.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment: Contributing area around pond A-2

Simple Basin: B-PA-3

Scenario: Scenario 1
Node: SED POND A-3
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 22.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 8.6900 ac
Curve Number: 85.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment: Contributing area around pond A-3

Simple Basin: B-PB

Scenario: Scenario 1
Node: POND B
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 6.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 6.9700 ac
Curve Number: 93.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment: Contributing area to Pond B

Simple Basin: B-PD

Scenario: Scenario 1
Node: POND D
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 14.0000 min
Max Allowable Q: 9999.00 cfs

Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 31.5000 ac
Curve Number: 92.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: B-PF

Scenario: Scenario 1
Node: POND F
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 6.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 1.6200 ac
Curve Number: 90.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: B-PG

Scenario: Scenario 1
Node: POND G
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 6.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 1.0500 ac
Curve Number: 83.0
% Impervious: 0.00
% DCIA: 0.00

% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: B-PS-2

Scenario: Scenario 1
Node: SED POND 2
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 24.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 4.8600 ac
Curve Number: 84.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment: Contributing area to Sedimentation Pond 2

Simple Basin: B-PS-3

Scenario: Scenario 1
Node: SED POND 3
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 19.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 10.1100 ac
Curve Number: 82.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment: Contributing area to Sedimentation Pond 3

Simple Basin: B-PS-4

Scenario: Scenario 1
Node: SED POND 4
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 32.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 16.3200 ac
Curve Number: 82.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment: Contributing area to Sedimentation Pond 4

Simple Basin: B-PS-8

Scenario: Scenario 1
Node: SED POND 8
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 6.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 10.7900 ac
Curve Number: 84.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment: Contributing area to Sedimentation Pond 8

Simple Basin: B-SE-DITCH

Scenario: Scenario 1
Node: SE-DITCH
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 2.0000 min
Max Allowable Q: 9999.00 cfs

Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 7.5800 ac
Curve Number: 83.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment: Contributing area to Southeast Ditch

Simple Basin: B-SEC-13A

Scenario: Scenario 1
Node: SEC13A-1
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 10.0000 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: B-SEC12

Scenario: Scenario 1
Node: SEC12-1
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 8.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 10.3300 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00

% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: B-SEC13

Scenario: Scenario 1
Node: SEC13-1
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 16.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 12.4300 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: B-SW-DITCH-A

Scenario: Scenario 1
Node: NZA-0890
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 2.0000 min
Max Allowable Q: 0.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 0.2200 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: B-SW-DITCH-B

Scenario: Scenario 1
Node: NZA-1790
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 2.0000 min
Max Allowable Q: 0.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 0.4900 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: B01

Scenario: Scenario 1
Node: NZA-1440
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 8.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 1.4900 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: B02

Scenario: Scenario 1
Node: NZA-1430
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 8.0000 min
Max Allowable Q: 9999.00 cfs

Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 1.0500 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: B03

Scenario: Scenario 1
Node: NZA-1420
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 8.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 1.2200 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: B7-A

Scenario: Scenario 1
Node: NZA-0880
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 1.2700 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00

% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: C01

Scenario: Scenario 1
Node: NZA-1370
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 8.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 2.1700 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: C02

Scenario: Scenario 1
Node: NZA-1380
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 8.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 1.1500 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: C03

Scenario: Scenario 1
Node: NZA-1390
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 8.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 1.8300 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: D01

Scenario: Scenario 1
Node: NZA-0330
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 8.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 2.0900 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: D02

Scenario: Scenario 1
Node: NZA-0310
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 8.0000 min
Max Allowable Q: 9999.00 cfs

Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 1.8200 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: D03

Scenario: Scenario 1
Node: NZA-0290
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 11.7900 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 2.5600 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: E01

Scenario: Scenario 1
Node: NZA-0320
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 8.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 1.1100 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00

% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: E02

Scenario: Scenario 1
Node: NZA-0300
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 8.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 0.9000 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: E03

Scenario: Scenario 1
Node: NZA-0280
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 8.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 1.2300 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: F01

Scenario: Scenario 1
Node: NZA-1230
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 8.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 0.5700 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: F02

Scenario: Scenario 1
Node: NZA-1240
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 8.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 0.9300 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: F03

Scenario: Scenario 1
Node: NZA-1250
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 8.0000 min
Max Allowable Q: 9999.00 cfs

Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 1.7000 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: G01

Scenario: Scenario 1
Node: NZA-1220
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 8.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 0.9900 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: G02

Scenario: Scenario 1
Node: NZA-1210
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 8.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 1.2800 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00

% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: G03

Scenario: Scenario 1
Node: NZA-1200
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 8.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 2.2300 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: H01

Scenario: Scenario 1
Node: NZA-0640
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 8.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 1.2200 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: H02

Scenario: Scenario 1
Node: NZA-0630
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 8.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 1.0400 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: H03

Scenario: Scenario 1
Node: NZA-0620
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 8.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 1.2500 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: I01

Scenario: Scenario 1
Node: NZA-0680
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 8.0000 min
Max Allowable Q: 9999.00 cfs

Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 1.4000 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: I02

Scenario: Scenario 1
Node: NZA-0670
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 8.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 1.1500 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: I03

Scenario: Scenario 1
Node: NZA-0660
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 8.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 1.2800 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00

% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: J01

Scenario: Scenario 1
Node: NZA-1320
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 8.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 2.6200 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: J02

Scenario: Scenario 1
Node: NZA-1310
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 8.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 1.6800 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: J03

Scenario: Scenario 1
Node: NZA-1300
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 8.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 0.8000 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: K02

Scenario: Scenario 1
Node: NZA-0560
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 1.5800 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: K03

Scenario: Scenario 1
Node: NZA-0550
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 15.6900 min
Max Allowable Q: 9999.00 cfs

Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 2.8900 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment: SPLIT INTO K03 AREA MINUS K03B AREA

Simple Basin: K03-B

Scenario: Scenario 1
Node: NZA-1590
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 15.6900 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 2.9400 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: L01

Scenario: Scenario 1
Node: NZA-0530
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 8.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 1.3400 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00

% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: L02

Scenario: Scenario 1
Node: NZA-0520
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 1.6600 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: L03

Scenario: Scenario 1
Node: NZA-0510
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 15.6600 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 2.4800 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: M01

Scenario: Scenario 1
Node: NZA-1120
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 8.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 1.4600 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: M02

Scenario: Scenario 1
Node: NZA-1130
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 12.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 1.5800 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: M03

Scenario: Scenario 1
Node: NZA-1140
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 12.4700 min
Max Allowable Q: 9999.00 cfs

Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 3.0200 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: N01

Scenario: Scenario 1
Node: NZA-1090
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 8.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 1.5500 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: N02

Scenario: Scenario 1
Node: NZA-1080
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 12.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 1.7000 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00

% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: N03

Scenario: Scenario 1
Node: NZA-1070
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 15.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 2.8900 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: O01

Scenario: Scenario 1
Node: NZA-0390
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 8.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 1.2100 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: O02

Scenario: Scenario 1
Node: NZA-0380
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 8.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 1.3400 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: O03

Scenario: Scenario 1
Node: NZA-0370
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 12.7900 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 2.4000 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: P01

Scenario: Scenario 1
Node: NZA-0420
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 8.0000 min
Max Allowable Q: 9999.00 cfs

Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 0.9900 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: P02

Scenario: Scenario 1
Node: NZA-0410
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 8.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 0.9800 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: P03

Scenario: Scenario 1
Node: NZA-0400
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 8.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 0.9200 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00

% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: Q01

Scenario: Scenario 1
Node: NZA-1550
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 8.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 0.8800 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: Q02

Scenario: Scenario 1
Node: NZA-1560
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 8.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 1.3500 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: Q03

Scenario: Scenario 1
Node: NZA-1480
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.5900 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 2.5600 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: R01

Scenario: Scenario 1
Node: NZA-1540
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 8.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 0.4700 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: R02

Scenario: Scenario 1
Node: NZA-1500
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 8.0000 min
Max Allowable Q: 9999.00 cfs

Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 1.2600 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: R03

Scenario: Scenario 1
Node: NZA-1490
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 12.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 3.0400 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: S01

Scenario: Scenario 1
Node: NZA-0770
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 8.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 1.1400 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00

% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: S02

Scenario: Scenario 1
Node: NZA-0760
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 8.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 0.7400 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: S03

Scenario: Scenario 1
Node: NZA-0750
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 8.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 1.7900 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: Z01-A

Scenario: Scenario 1
Node: NZA-0730
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 2.2400 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: Z01-B

Scenario: Scenario 1
Node: NZA-0740
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 2.0300 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: Z02-A

Scenario: Scenario 1
Node: NZA-1400
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 9999.00 cfs

Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 3.5200 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: Z02-B

Scenario: Scenario 1
Node: NZA-1410
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 3.6000 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: Z03-A

Scenario: Scenario 1
Node: NZA-0260
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 4.6400 ac
Curve Number: 86.0
% Impervious: 0.00
% DCIA: 0.00

% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: Z03-B

Scenario: Scenario 1
Node: NZA-0270
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 6.3600 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: Z04-A

Scenario: Scenario 1
Node: NZA-1190
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 3.4300 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: Z04-B

Scenario: Scenario 1
Node: NZA-1260
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 3.9600 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: Z05-A

Scenario: Scenario 1
Node: NZA-0610
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 1.3000 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: Z05-B

Scenario: Scenario 1
Node: NZA-0650
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 9999.00 cfs

Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 0.8400 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: Z06-A

Scenario: Scenario 1
Node: NZA-0500
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 5.2500 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: Z06-B

Scenario: Scenario 1
Node: NZA-0540
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 4.8300 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00

% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: Z07-A

Scenario: Scenario 1
Node: NZA-1030
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 20.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 7.1400 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: Z07-B

Scenario: Scenario 1
Node: NZA-1050
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 20.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 6.5600 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: Z08-A

Scenario: Scenario 1
Node: NZA-0450
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 15.7700 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 2.3600 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: Z08-B

Scenario: Scenario 1
Node: NZA-0440
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 15.7700 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 2.0000 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: Z09+K01

Scenario: Scenario 1
Node: NZA-RS
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 9999.00 cfs

Time Shift: 0.0000 hr
Unit Hydrograph: UH484
Peaking Factor: 484.0
Area: 3.7900 ac
Curve Number: 74.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment: BASINS Z09+K01 AREA COMBINED FOR ROAD SWALE TO DISCHARGE AT DOWNCHUTE 11

Node: NZA-0220

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 225.75 ft

Comment:

Node: NZA-0230

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 202.00 ft

Comment:

Node: NZA-0240

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 168.00 ft

Comment:

Node: NZA-0250

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 135.50 ft

Comment:

Node: NZA-0260

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 233.04 ft

Comment:

Node: NZA-0270

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 236.55 ft

Comment:

Node: NZA-0280

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 209.00 ft

Comment:

Node: NZA-0290

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 212.78 ft

Comment:

Node: NZA-0300

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 179.96 ft

Comment:

Node: NZA-0310

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 180.45 ft

Comment:

Node: NZA-0320

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 142.00 ft

Comment:

Node: NZA-0330

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 147.93 ft

Comment:

Node: NZA-0340

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 225.58 ft

Comment:

Node: NZA-0350

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 194.04 ft

Comment:

Node: NZA-0360

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 164.22 ft

Comment:

Node: NZA-0370

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 204.86 ft

Comment:

Node: NZA-0380

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 175.93 ft

Comment:

Node: NZA-0390

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 151.90 ft

Comment:

Node: NZA-0400

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 201.64 ft

Comment:

Node: NZA-0410

Scenario: Scenario 1
 Type: Stage/Area
 Base Flow: 0.00 cfs
 Initial Stage: 0.00 ft
 Warning Stage: 172.73 ft

Comment:

Node: NZA-0420

Scenario: Scenario 1
 Type: Stage/Area
 Base Flow: 0.00 cfs
 Initial Stage: 0.00 ft
 Warning Stage: 147.71 ft

Comment:

Node: NZA-0430

Scenario: Scenario 1
 Type: Stage/Volume
 Base Flow: 0.00 cfs
 Initial Stage: 0.00 ft
 Warning Stage: 137.70 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
129.00	0.00	0
129.50	0.00	147
130.00	0.01	294
130.50	0.01	441
131.00	0.01	588
131.50	0.02	735
132.00	0.02	882

Comment:

Node: NZA-0440

Scenario: Scenario 1
 Type: Stage/Area
 Base Flow: 0.00 cfs

Initial Stage: 0.00 ft
Warning Stage: 237.00 ft

Comment:

Node: NZA-0450

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 242.84 ft

Comment:

Node: NZA-0460

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 225.75 ft

Comment:

Node: NZA-0470

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 194.00 ft

Comment:

Node: NZA-0480

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs

Initial Stage: 0.00 ft
Warning Stage: 164.00 ft

Comment:

Node: NZA-0490

Scenario: Scenario 1
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 138.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
126.00	0.00	0
127.00	0.01	502
128.00	0.02	1004
129.00	0.03	1506
131.00	0.05	2008
131.50	0.06	2510
132.00	0.07	3012

Comment: 126.7

Node: NZA-0500

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 237.00 ft

Comment:

Node: NZA-0510

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 208.88 ft

Comment:

Node: NZA-0520

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 175.96 ft

Comment:

Node: NZA-0530

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 150.28 ft

Comment:

Node: NZA-0540

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 241.66 ft

Comment:

Node: NZA-0550

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 214.55 ft

Comment:

Node: NZA-0560

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 171.86 ft

Comment:

Node: NZA-0570

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 225.00 ft

Comment:

Node: NZA-0580

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 199.00 ft

Comment:

Node: NZA-0590

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 169.00 ft

Comment:

Node: NZA-0600

Scenario: Scenario 1
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 139.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
135.00	0.00	0
135.50	0.00	193
136.00	0.01	387
136.50	0.01	581
137.00	0.03	1161

Comment:

Node: NZA-0600A

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 137.12 ft

Comment:

Node: NZA-0610

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 242.00 ft

Comment:

Node: NZA-0620

Scenario: Scenario 1

Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 207.35 ft

Comment:

Node: NZA-0630

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 178.24 ft

Comment:

Node: NZA-0640

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 149.00 ft

Comment:

Node: NZA-0650

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 231.50 ft

Comment:

Node: NZA-0660

Scenario: Scenario 1

Type: Stage/Area
 Base Flow: 0.00 cfs
 Initial Stage: 0.00 ft
 Warning Stage: 206.73 ft

Comment:

Node: NZA-0670

Scenario: Scenario 1
 Type: Stage/Area
 Base Flow: 0.00 cfs
 Initial Stage: 0.00 ft
 Warning Stage: 179.00 ft

Comment:

Node: NZA-0680

Scenario: Scenario 1
 Type: Stage/Area
 Base Flow: 0.00 cfs
 Initial Stage: 0.00 ft
 Warning Stage: 151.00 ft

Comment:

Node: NZA-0690

Scenario: Scenario 1
 Type: Stage/Volume
 Base Flow: 0.00 cfs
 Initial Stage: 0.00 ft
 Warning Stage: 138.20 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
131.00	0.00	0
131.50	0.00	193
132.00	0.01	387
132.50	0.01	581
133.00	0.02	774
133.50	0.02	967

Stage [ft]	Volume [ac-ft]	Volume [ft3]
134.00	0.03	1161

Comment:

Node: NZA-0700

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 171.00 ft

Comment:

Node: NZA-0700A

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 126.52 ft

Comment:

Node: NZA-0710

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 194.00 ft

Comment:

Node: NZA-0720

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft

Warning Stage: 226.26 ft

Comment:

Node: NZA-0730

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 232.35 ft

Comment:

Node: NZA-0740

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 242.84 ft

Comment:

Node: NZA-0750

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 199.18 ft

Comment:

Node: NZA-0760

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft

Warning Stage: 181.16 ft

Comment:

Node: NZA-0770

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 147.00 ft

Comment:

Node: NZA-0780

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 146.22 ft

Comment:

Node: NZA-0790

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 182.00 ft

Comment:

Node: NZA-0800

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft

Warning Stage: 201.43 ft

Comment:

Node: NZA-0870

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 154.03 ft

Comment:

Node: NZA-0880

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 162.29 ft

Comment:

Node: NZA-0890

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 132.00 ft

Comment:

Node: NZA-1030

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft

Warning Stage: 237.00 ft

Comment:

Node: NZA-1040

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 225.75 ft

Comment:

Node: NZA-1050

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 237.04 ft

Comment:

Node: NZA-1060

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 194.00 ft

Comment:

Node: NZA-1070

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft

Warning Stage: 205.00 ft

Comment:

Node: NZA-1080

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 174.88 ft

Comment:

Node: NZA-1090

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 149.76 ft

Comment:

Node: NZA-1100

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 162.00 ft

Comment:

Node: NZA-1110

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft

Warning Stage: 136.92 ft

Comment:

Node: NZA-1120

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 149.24 ft

Comment:

Node: NZA-1130

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 175.96 ft

Comment:

Node: NZA-1140

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 205.75 ft

Comment:

Node: NZA-1150

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft

Warning Stage: 140.00 ft

Comment:

Node: NZA-1160

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 163.00 ft

Comment:

Node: NZA-1170

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 192.00 ft

Comment:

Node: NZA-1180

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 225.00 ft

Comment:

Node: NZA-1190

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft

Warning Stage: 233.84 ft

Comment:

Node: NZA-1200

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 200.79 ft

Comment:

Node: NZA-1210

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 171.68 ft

Comment:

Node: NZA-1220

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 149.00 ft

Comment:

Node: NZA-1230

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft

Warning Stage: 153.18 ft

Comment:

Node: NZA-1240

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 170.95 ft

Comment:

Node: NZA-1250

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 199.81 ft

Comment:

Node: NZA-1260

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 233.53 ft

Comment:

Node: NZA-1270

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft

Warning Stage: 192.41 ft

Comment:

Node: NZA-1280

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 164.00 ft

Comment:

Node: NZA-1290

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 136.00 ft

Comment:

Node: NZA-1300

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 203.42 ft

Comment:

Node: NZA-1310

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft

Warning Stage: 183.73 ft

Comment:

Node: NZA-1320

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 163.36 ft

Comment:

Node: NZA-1330

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 225.75 ft

Comment:

Node: NZA-1340

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 203.92 ft

Comment:

Node: NZA-1350

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft

Warning Stage: 179.00 ft

Comment:

Node: NZA-1360

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 137.90 ft

Comment:

Node: NZA-1370

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 151.75 ft

Comment:

Node: NZA-1380

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 192.38 ft

Comment:

Node: NZA-1390

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft

Warning Stage: 215.69 ft

Comment:

Node: NZA-1400

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 236.03 ft

Comment:

Node: NZA-1410

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 232.35 ft

Comment:

Node: NZA-1420

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 216.90 ft

Comment:

Node: NZA-1430

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft

Warning Stage: 186.98 ft

Comment:

Node: NZA-1440

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 147.52 ft

Comment:

Node: NZA-1460

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 130.50 ft

Comment:

Node: NZA-1470

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 192.80 ft

Comment:

Node: NZA-1480

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft

Warning Stage: 201.70 ft

Comment:

Node: NZA-1490

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 201.95 ft

Comment:

Node: NZA-1500

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 173.49 ft

Comment:

Node: NZA-1510

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 163.92 ft

Comment:

Node: NZA-1520

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft

Warning Stage: 161.90 ft

Comment:

Node: NZA-1530

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 139.15 ft

Comment:

Node: NZA-1540

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 142.88 ft

Comment:

Node: NZA-1550

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 147.71 ft

Comment:

Node: NZA-1560

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft

Warning Stage: 168.00 ft

Comment:

Node: NZA-1570

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 229.34 ft

Comment:

Node: NZA-1580

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 226.24 ft

Comment:

Node: NZA-1590

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 205.20 ft

Comment:

Node: NZA-1600

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft

Warning Stage: 146.19 ft

Comment:

Node: NZA-1610

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 208.92 ft

Comment:

Node: NZA-1620

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 173.93 ft

Comment:

Node: NZA-1630

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 160.00 ft

Comment:

Node: NZA-1640

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft

Warning Stage: 164.00 ft

Comment:

Node: NZA-1650

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 197.18 ft

Comment:

Node: NZA-1660

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 237.64 ft

Comment:

Node: NZA-1670

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 172.00 ft

Comment:

Node: NZA-1690

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft

Warning Stage: 191.07 ft

Comment:

Node: NZA-1700

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 139.00 ft

Comment: Road elevation

Node: NZA-1780

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 140.00 ft

Comment:

Node: NZA-1790

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 132.00 ft

Comment:

Node: NZA-1800

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft

Warning Stage: 129.10 ft

Comment:

Node: NZA-RS

Scenario: Scenario 1
 Type: Stage/Area
 Base Flow: 0.00 cfs
 Initial Stage: 0.00 ft
 Warning Stage: 241.00 ft

Comment:

Node: NZV-1010

Scenario: Scenario 1
 Type: Stage/Volume
 Base Flow: 0.00 cfs
 Initial Stage: 0.00 ft
 Warning Stage: 125.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
104.00	0.05	2178
105.00	0.10	4356
106.00	0.15	6534

Comment:

Node: NZV-1020

Scenario: Scenario 1
 Type: Stage/Volume
 Base Flow: 0.00 cfs
 Initial Stage: 0.00 ft
 Warning Stage: 128.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
110.00	50.00	2178000
111.00	51.00	2221560
112.00	52.00	2265120
113.00	53.00	2308680

Comment:

Node: POND A-1

Scenario: Scenario 1
 Type: Stage/Area
 Base Flow: 0.00 cfs
 Initial Stage: 123.43 ft
 Warning Stage: 128.00 ft

Stage [ft]	Area [ac]	Area [ft2]
120.00	1.9000	82764
123.70	2.3300	101495
125.00	2.4900	108464
128.00	2.9000	126324

Comment:

Node: POND B

Scenario: Scenario 1
 Type: Stage/Area
 Base Flow: 0.00 cfs
 Initial Stage: 123.34 ft
 Warning Stage: 130.00 ft

Stage [ft]	Area [ac]	Area [ft2]
118.00	0.3100	13504
120.00	0.4300	18731
122.00	0.5600	24394
124.00	4.4300	192971
126.00	5.0200	218671
128.00	5.5400	241322
130.00	6.0000	261360

Comment:

Node: POND D

Scenario: Scenario 1
 Type: Stage/Area
 Base Flow: 0.00 cfs
 Initial Stage: 110.50 ft
 Warning Stage: 116.00 ft

Stage [ft]	Area [ac]	Area [ft2]
110.50	18.5000	805860
111.00	18.8000	818928
115.00	21.1000	919116

Comment:

Node: POND F

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 125.00 ft
Warning Stage: 128.00 ft

Stage [ft]	Area [ac]	Area [ft2]
125.00	0.1000	4356
126.00	0.1100	4792
127.00	0.2200	9583
128.00	0.3200	13939

Comment:

Node: POND G

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 123.00 ft
Warning Stage: 127.00 ft

Stage [ft]	Area [ac]	Area [ft2]
123.00	0.0400	1742
124.00	0.0450	1960
124.50	0.0500	2178
125.00	0.0550	2396
125.50	0.8000	34848
126.00	0.1900	8276
127.00	0.2400	10454

Comment:

Node: SE-DITCH

Scenario: Scenario 1

Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 131.00 ft

Comment:

Node: SEC12-1

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 288.00 ft

Comment:

Node: SEC12-2

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 130.00 ft

Comment:

Node: SEC12-B

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 127.15 ft

Comment:

Node: SEC13-1

Scenario: Scenario 1

Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 288.00 ft

Comment:

Node: SEC13-2

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 133.00 ft

Comment:

Node: SEC13A-1

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 288.00 ft

Comment:

Node: SEC13A-2

Scenario: Scenario 1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 131.00 ft

Comment:

Node: SED POND 2

Scenario: Scenario 1

Type: Stage/Area
 Base Flow: 0.00 cfs
 Initial Stage: 118.00 ft
 Warning Stage: 125.00 ft

Stage [ft]	Area [ac]	Area [ft2]
118.00	1.8000	78408
120.00	2.6000	113256
122.00	3.2000	139392
124.00	4.0000	174240
125.00	4.9000	213444

Comment:

Node: SED POND 3

Scenario: Scenario 1
 Type: Stage/Area
 Base Flow: 0.00 cfs
 Initial Stage: 121.11 ft
 Warning Stage: 130.00 ft

Stage [ft]	Area [ac]	Area [ft2]
121.11	0.0010	44
125.00	1.5000	65340
126.00	3.1000	135036
130.00	3.9000	169884

Comment:

Node: SED POND 4

Scenario: Scenario 1
 Type: Stage/Area
 Base Flow: 0.00 cfs
 Initial Stage: 126.50 ft
 Warning Stage: 132.00 ft

Stage [ft]	Area [ac]	Area [ft2]
125.00	1.7000	74052
128.00	2.6000	113256
130.00	3.5000	152460
132.00	5.7000	248292

Comment:

Node: SED POND 8

Scenario: Scenario 1
 Type: Stage/Area
 Base Flow: 0.00 cfs
 Initial Stage: 115.50 ft
 Warning Stage: 125.00 ft

Stage [ft]	Area [ac]	Area [ft2]
115.50	0.0010	44
117.00	0.2200	9583
118.00	0.3900	16988
119.00	0.6700	29185
120.00	0.9700	42253
121.00	1.3100	57064
122.00	1.6500	71874
123.00	1.9000	82764
124.00	2.2200	96703

Comment:

Node: SED POND A-2

Scenario: Scenario 1
 Type: Stage/Area
 Base Flow: 0.00 cfs
 Initial Stage: 123.34 ft
 Warning Stage: 126.00 ft

Stage [ft]	Area [ac]	Area [ft2]
120.00	7.3000	317988
123.70	8.3100	361984
125.00	8.6700	377665
126.00	8.9000	387684

Comment:

Node: SED POND A-3

Scenario: Scenario 1
 Type: Stage/Area
 Base Flow: 0.00 cfs
 Initial Stage: 123.34 ft
 Warning Stage: 126.00 ft

Stage [ft]	Area [ac]	Area [ft2]
120.00	1.6200	70567
123.70	2.2800	99317

Stage [ft]	Area [ac]	Area [ft2]
125.00	2.7500	119790
126.00	3.4400	149846

Comment:

Drop Structure Link: A-1 Riser		Upstream Pipe	Downstream Pipe
Scenario:	Scenario 1	Invert: 120.94 ft	Invert: 120.01 ft
From Node:	POND A-1	Manning's N: 0.0130	Manning's N: 0.0130
To Node:	SED POND A-2	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 2.50 ft	Max Depth: 2.50 ft
Flow Direction:	Both	Bottom Clip	
Solution:	Combine	Default: 0.00 ft	Default: 0.00 ft
Increments:	0	Op Table:	Op Table:
Pipe Count:	1	Ref Node:	Ref Node:
Damping:	0.0000 ft	Manning's N: 0.0000	Manning's N: 0.0000
Length:	66.00 ft	Top Clip	
FHWA Code:	0	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef:	0.50	Op Table:	Op Table:
Exit Loss Coef:	1.00	Ref Node:	Ref Node:
Bend Loss Coef:	0.00	Manning's N: 0.0000	Manning's N: 0.0000
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Pipe Comment:

Weir Component	
Weir: 1	Bottom Clip
Weir Count: 1	Default: 0.00 ft
Weir Flow Direction: Both	Op Table:
Damping: 0.0000 ft	Ref Node:
Weir Type: Sharp Crested Vertical	Top Clip
Geometry Type: Circular	Default: 0.00 ft
Invert: 122.99 ft	Op Table:
Control Elevation: 122.99 ft	Ref Node:
Max Depth: 1.50 ft	Discharge Coefficients
	Weir Default: 3.200
	Weir Table:
	Orifice Default: 0.600
	Orifice Table:

Weir Comment:

Weir Component	
Weir: 2	Bottom Clip
Weir Count: 1	Default: 0.00 ft
Weir Flow Direction: Both	Op Table:
Damping: 0.0000 ft	Ref Node:
Weir Type: Sharp Crested Vertical	Top Clip

Geometry Type: Rectangular
 Invert: 127.50 ft
 Control Elevation: 127.50 ft
 Max Depth: 3.00 ft
 Max Width: 4.50 ft
 Fillet: 0.00 ft

Default: 0.00 ft
 Op Table:
 Ref Node:
 Discharge Coefficients
 Weir Default: 3.200
 Weir Table:
 Orifice Default: 0.600
 Orifice Table:

Weir Comment:

Drop Structure Comment:

Channel Link: CH12A		Upstream	Downstream
Scenario:	Scenario 1	Invert: 130.00 ft	Invert: 128.00 ft
From Node:	SEC13-2	Manning's N: 0.0330	Manning's N: 0.0330
To Node:	SEC13A-2	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 7.00 ft	Bottom Width: 7.00 ft
Length:	1000.00 ft	Left Slope: 3.000 (h:v)	Left Slope: 3.000 (h:v)
Contraction Coef:	0.00	Right Slope: 3.000 (h:v)	Right Slope: 3.000 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0000	Manning's N: 0.0000
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0000	Manning's N: 0.0000

Comment:

Channel Link: CH13A		Upstream	Downstream
Scenario:	Scenario 1	Invert: 128.00 ft	Invert: 127.00 ft
From Node:	SEC13A-2	Manning's N: 0.0330	Manning's N: 0.0330
To Node:	SEC12-2	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 7.00 ft	Bottom Width: 7.00 ft
Length:	600.00 ft	Left Slope: 3.000 (h:v)	Left Slope: 3.000 (h:v)
Contraction Coef:	0.00	Right Slope: 3.000 (h:v)	Right Slope: 3.000 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft

Exit Loss Coef:	0.00	Op Table:		Op Table:	
Bend Loss Coef:	0.00	Ref Node:		Ref Node:	
Bend Location:	0.00 dec	Manning's N:	0.0000	Manning's N:	0.0000
Energy Switch:	Energy	Top Clip			

Default:	0.00 ft	Default:	0.00 ft
Op Table:		Op Table:	
Ref Node:		Ref Node:	
Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Channel Link: DC-7		Upstream	Downstream
Scenario:	Scenario 1	Invert:	151.62 ft
From Node:	NZA-0870	Manning's N:	0.0330
To Node:	NZA-0890	Geometry: Irregular	
Link Count:	1	Cross Section:	X-DOWNCHUTE 7'
Flow Direction:	Both	Cross Section:	X-DOWNCHUTE 7'
Damping:	0.0000 ft		
Length:	108.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	1.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Comment:

Channel Link: DC-Sec12A		Upstream	Downstream
Scenario:	Scenario 1	Invert:	286.00 ft
From Node:	SEC12-1	Manning's N:	0.0000
To Node:	SEC12-2	Geometry: Irregular	
Link Count:	1	Cross Section:	X-DOWNCHUTE 7'
Flow Direction:	Both	Cross Section:	X-DOWNCHUTE 7'
Damping:	0.0000 ft		
Length:	850.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Comment:

Channel Link: DC-Sec13		Upstream	Downstream
Scenario:	Scenario 1	Invert: 286.00 ft	Invert: 130.00 ft
From Node:	SEC13-1	Manning's N: 0.0330	Manning's N: 0.0330
To Node:	SEC13-2	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 2.00 ft	Max Depth: 2.00 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 7.00 ft	Bottom Width: 7.00 ft
Length:	700.00 ft	Left Slope: 3.000 (h:v)	Left Slope: 3.000 (h:v)
Contraction Coef:	0.00	Right Slope: 3.000 (h:v)	Right Slope: 3.000 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0000	Manning's N: 0.0000
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0000	Manning's N: 0.0000
Comment:			

Channel Link: DC-Sec13A		Upstream	Downstream
Scenario:	Scenario 1	Invert: 286.00 ft	Invert: 128.00 ft
From Node:	SEC13A-1	Manning's N: 0.0330	Manning's N: 0.0330
To Node:	SEC13A-2	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 2.00 ft	Max Depth: 2.00 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 7.00 ft	Bottom Width: 7.00 ft
Length:	700.00 ft	Left Slope: 3.000 (h:v)	Left Slope: 3.000 (h:v)
Contraction Coef:	0.00	Right Slope: 3.000 (h:v)	Right Slope: 3.000 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0000	Manning's N: 0.0000
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0000	Manning's N: 0.0000
Comment:			

Channel Link: DC1-1		Upstream	Downstream
Scenario:	Scenario 1	Invert: 190.41 ft	Invert: 162.00 ft
From Node:	NZA-1270	Manning's N: 0.0000	Manning's N: 0.0000

To Node:	NZA-1280	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-DOWNCHUTE 7'	Cross Section: X-DOWNCHUTE 7'
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	113.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		
Comment:			

Channel Link: DC1-2		Upstream	Downstream
Scenario:	Scenario 1	Invert: 162.00 ft	Invert: 134.00 ft
From Node:	NZA-1280	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-1290	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-DOWNCHUTE 7'	Cross Section: X-DOWNCHUTE 7'
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	111.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	1.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		
Comment:			

Channel Link: DC1-3		Upstream	Downstream
Scenario:	Scenario 1	Invert: 130.00 ft	Invert: 127.70 ft
From Node:	NZA-1290	Manning's N: 0.1400	Manning's N: 0.1400
To Node:	SE-DITCH	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 5.00 ft	Max Depth: 5.00 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 70.00 ft	Bottom Width: 70.00 ft
Length:	527.00 ft	Left Slope: 3.000 (h:v)	Left Slope: 3.000 (h:v)
Contraction Coef:	0.00	Right Slope: 3.000 (h:v)	Right Slope: 3.000 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0000	Manning's N: 0.0000

Energy Switch: Energy

Top Clip

Default: 0.00 ft
 Op Table:
 Ref Node:
 Manning's N: 0.0000

Default: 0.00 ft
 Op Table:
 Ref Node:
 Manning's N: 0.0000

Comment:

Channel Link: DC10-1

Upstream

Downstream

Scenario: Scenario 1
 From Node: NZA-1040
 To Node: NZA-1060
 Link Count: 1
 Flow Direction: Both
 Damping: 0.0000 ft
 Length: 139.00 ft
 Contraction Coef: 0.00
 Expansion Coef: 0.00
 Entr Loss Coef: 0.00
 Exit Loss Coef: 0.00
 Bend Loss Coef: 0.00
 Bend Location: 0.00 dec
 Energy Switch: Energy

Invert: 223.75 ft

Invert: 191.92 ft

Manning's N: 0.0000

Manning's N: 0.0000

Geometry: Irregular

Geometry: Irregular

Cross Section: X-DOWNCHUTE 7'

Cross Section: X-DOWNCHUTE 7'

Comment:

Channel Link: DC10-2

Upstream

Downstream

Scenario: Scenario 1
 From Node: NZA-1060
 To Node: NZA-1640
 Link Count: 1
 Flow Direction: Both
 Damping: 0.0000 ft
 Length: 120.00 ft
 Contraction Coef: 0.00
 Expansion Coef: 0.00
 Entr Loss Coef: 0.00
 Exit Loss Coef: 0.00
 Bend Loss Coef: 0.00
 Bend Location: 0.00 dec
 Energy Switch: Energy

Invert: 191.92 ft

Invert: 161.92 ft

Manning's N: 0.0000

Manning's N: 0.0000

Geometry: Irregular

Geometry: Irregular

Cross Section: X-DOWNCHUTE 7'

Cross Section: X-DOWNCHUTE 7'

Comment:

Channel Link: DC10-3

Upstream

Downstream

Scenario:	Scenario 1	Invert:	162.00 ft	Invert:	160.00 ft
From Node:	NZA-1640	Manning's N:	0.0000	Manning's N:	0.0000
To Node:	NZA-1100	Geometry:	Irregular	Geometry:	Irregular
Link Count:	1	Cross Section:	X-DOWNCHUTE 7'	Cross Section:	X-DOWNCHUTE 7'
Flow Direction:	Both				
Damping:	0.0000 ft				
Length:	15.00 ft				
Contraction Coef:	0.00				
Expansion Coef:	0.00				
Entr Loss Coef:	0.00				
Exit Loss Coef:	0.00				
Bend Loss Coef:	0.00				
Bend Location:	0.00 dec				
Energy Switch:	Energy				
Comment:					

Channel Link: DC10-4		Upstream		Downstream	
Scenario:	Scenario 1	Invert:	160.00 ft	Invert:	134.92 ft
From Node:	NZA-1100	Manning's N:	0.0000	Manning's N:	0.0000
To Node:	NZA-1110	Geometry:	Irregular	Geometry:	Irregular
Link Count:	1	Cross Section:	X-DOWNCHUTE 7'	Cross Section:	X-DOWNCHUTE 7'
Flow Direction:	Both				
Damping:	0.0000 ft				
Length:	107.00 ft				
Contraction Coef:	0.00				
Expansion Coef:	0.00				
Entr Loss Coef:	0.00				
Exit Loss Coef:	1.00				
Bend Loss Coef:	0.00				
Bend Location:	0.00 dec				
Energy Switch:	Energy				
Comment:					

Channel Link: DC10-5		Upstream		Downstream	
Scenario:	Scenario 1	Invert:	134.92 ft	Invert:	124.00 ft
From Node:	NZA-1110	Manning's N:	0.0000	Manning's N:	0.0000
To Node:	SED POND A-3	Geometry:	Irregular	Geometry:	Irregular
Link Count:	1	Cross Section:	X-DOWNCHUTE 7'	Cross Section:	X-DOWNCHUTE 7'
Flow Direction:	Both				
Damping:	0.0000 ft				
Length:	66.00 ft				
Contraction Coef:	0.00				
Expansion Coef:	0.00				
Entr Loss Coef:	0.00				
Exit Loss Coef:	0.00				

Bend Loss Coef: 0.00
 Bend Location: 0.00 dec
 Energy Switch: Energy

Comment:

Channel Link: DC11-1		Upstream	Downstream
Scenario:	Scenario 1	Invert: 223.75 ft	Invert: 192.00 ft
From Node:	NZA-0460	Manning's N: 0.0330	Manning's N: 0.0330
To Node:	NZA-1650	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-DOWNCHUTE 7'	Cross Section: X-DOWNCHUTE 7'
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	123.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Comment:

Channel Link: DC11-2		Upstream	Downstream
Scenario:	Scenario 1	Invert: 195.18 ft	Invert: 192.00 ft
From Node:	NZA-1650	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-0470	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-DOWNCHUTE 7'	Cross Section: X-DOWNCHUTE 7'
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	20.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Comment:

Channel Link: DC11-3		Upstream	Downstream
Scenario:	Scenario 1	Invert: 192.00 ft	Invert: 162.00 ft
From Node:	NZA-0470	Manning's N: 0.0330	Manning's N: 0.0330

To Node:	NZA-0480	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-DOWNCHUTE 7'	Cross Section: X-DOWNCHUTE 7'
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	119.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		
Comment:			

Channel Link: DC11-4		Upstream	Downstream
Scenario:	Scenario 1	Invert: 161.92 ft	Invert: 158.00 ft
From Node:	NZA-0480	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-1630	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-DOWNCHUTE 7'	Cross Section: X-DOWNCHUTE 7'
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	15.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		
Comment:			

Channel Link: DC11-5		Upstream	Downstream
Scenario:	Scenario 1	Invert: 158.00 ft	Invert: 134.00 ft
From Node:	NZA-1630	Manning's N: 0.0330	Manning's N: 0.0330
To Node:	NZA-0490	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-DOWNCHUTE 7'	Cross Section: X-DOWNCHUTE 7'
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	108.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	1.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		

Energy Switch: Energy

Comment:

Channel Link: DC2-1		Upstream	Downstream
Scenario:	Scenario 1	Invert: 223.00 ft	Invert: 197.00 ft
From Node:	NZA-0570	Manning's N: 0.0330	Manning's N: 0.0330
To Node:	NZA-0580	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-DOWNCHUTE 7'	Cross Section: X-DOWNCHUTE 7'
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	134.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		
Comment:			

Channel Link: DC2-2		Upstream	Downstream
Scenario:	Scenario 1	Invert: 197.00 ft	Invert: 167.00 ft
From Node:	NZA-0580	Manning's N: 0.0330	Manning's N: 0.0330
To Node:	NZA-0590	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-DOWNCHUTE 7'	Cross Section: X-DOWNCHUTE 7'
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	155.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		
Comment:			

Channel Link: DC2-3		Upstream	Downstream
Scenario:	Scenario 1	Invert: 167.00 ft	Invert: 136.00 ft
From Node:	NZA-0590	Manning's N: 0.0330	Manning's N: 0.0330
To Node:	NZA-0600	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-DOWNCHUTE 7'	Cross Section: X-DOWNCHUTE 7'

Flow Direction: Both
 Damping: 0.0000 ft
 Length: 45.00 ft
 Contraction Coef: 0.00
 Expansion Coef: 0.00
 Entr Loss Coef: 0.00
 Exit Loss Coef: 1.00
 Bend Loss Coef: 0.00
 Bend Location: 0.00 dec
 Energy Switch: Energy

Comment:

Channel Link: DC2-4		Upstream	Downstream
Scenario:	Scenario 1	Invert: 136.00 ft	Invert: 135.00 ft
From Node:	NZA-0600	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-0600A	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-DOWNCHUTE 7'	Cross Section: X-DOWNCHUTE 7'
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	45.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Comment:

Channel Link: DC3-1		Upstream	Downstream
Scenario:	Scenario 1	Invert: 223.00 ft	Invert: 190.00 ft
From Node:	NZA-1180	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-1170	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-DOWNCHUTE 7'	Cross Section: X-DOWNCHUTE 7'
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	147.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Comment:

Channel Link: DC3-2		Upstream	Downstream
Scenario:	Scenario 1	Invert: 190.00 ft	Invert: 161.00 ft
From Node:	NZA-1170	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-1160	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-DOWNCHUTE 7'	Cross Section: X-DOWNCHUTE 7'
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	114.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		
Comment:			

Channel Link: DC3-3		Upstream	Downstream
Scenario:	Scenario 1	Invert: 161.00 ft	Invert: 144.19 ft
From Node:	NZA-1160	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-1600	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-DOWNCHUTE 7'	Cross Section: X-DOWNCHUTE 7'
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	68.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		
Comment:			

Channel Link: DC3-4		Upstream	Downstream
Scenario:	Scenario 1	Invert: 144.19 ft	Invert: 138.00 ft
From Node:	NZA-1600	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-1150	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-DOWNCHUTE 7'	Cross Section: X-DOWNCHUTE 7'
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	25.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		

Exit Loss Coef: 1.00
 Bend Loss Coef: 0.00
 Bend Location: 0.00 dec
 Energy Switch: Energy

Comment:

Channel Link: DC3-5		Upstream	Downstream
Scenario:	Scenario 1	Invert: 138.00 ft	Invert: 130.00 ft
From Node:	NZA-1150	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	SED POND 4	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-DOWNCHUTE 7'	Cross Section: X-DOWNCHUTE 7'
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	45.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Comment:

Channel Link: DC4-1		Upstream	Downstream
Scenario:	Scenario 1	Invert: 223.00 ft	Invert: 200.00 ft
From Node:	NZA-0220	Manning's N: 0.0330	Manning's N: 0.0330
To Node:	NZA-0230	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-DOWNCHUTE 7'	Cross Section: X-DOWNCHUTE 7'
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	107.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Comment:

Channel Link: DC4-2		Upstream	Downstream
Scenario:	Scenario 1	Invert: 200.00 ft	Invert: 170.00 ft

From Node:	NZA-0230	Manning's N:	0.0330	Manning's N:	0.0330
To Node:	NZA-1670	Geometry:	Irregular	Geometry:	Irregular
Link Count:	1	Cross Section:	X-DOWNCHUTE 7'	Cross Section:	X-DOWNCHUTE 7'
Flow Direction:	Both				
Damping:	0.0000 ft				
Length:	119.00 ft				
Contraction Coef:	0.00				
Expansion Coef:	0.00				
Entr Loss Coef:	0.00				
Exit Loss Coef:	0.00				
Bend Loss Coef:	0.00				
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Comment:

Channel Link: DC4-3		Upstream	Downstream
Scenario:	Scenario 1	Invert: 170.00 ft	Invert: 166.00 ft
From Node:	NZA-1670	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-0240	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-DOWNCHUTE 7'	Cross Section: X-DOWNCHUTE 7'
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	15.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Comment:

Channel Link: DC4-4		Upstream	Downstream
Scenario:	Scenario 1	Invert: 166.00 ft	Invert: 133.00 ft
From Node:	NZA-0240	Manning's N: 0.0330	Manning's N: 0.0330
To Node:	NZA-0250	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-DOWNCHUTE 7'	Cross Section: X-DOWNCHUTE 7'
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	143.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	1.00		
Bend Loss Coef:	0.00		

Bend Location: 0.00 dec

Energy Switch: Energy

Comment:

Channel Link: DC4-5		Upstream	Downstream
Scenario:	Scenario 1	Invert: 133.00 ft	Invert: 130.00 ft
From Node:	NZA-0250	Manning's N: 0.1400	Manning's N: 0.1400
To Node:	SED POND 4	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-DOWNCHUTE 7'	Cross Section: X-DOWNCHUTE 7'
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	45.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	1.00		
Exit Loss Coef:	1.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		
Comment:			

Channel Link: DC5-1		Upstream	Downstream
Scenario:	Scenario 1	Invert: 223.75 ft	Invert: 206.92 ft
From Node:	NZA-1330	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-1610	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-DOWNCHUTE 7'	Cross Section: X-DOWNCHUTE 7'
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	79.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		
Comment:			

Channel Link: DC5-2		Upstream	Downstream
Scenario:	Scenario 1	Invert: 206.92 ft	Invert: 201.92 ft
From Node:	NZA-1610	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-1340	Geometry: Irregular	Geometry: Irregular

Link Count:	1	Cross Section:	X-DOWNCHUTE 7'	Cross Section:	X-DOWNCHUTE 7'
Flow Direction:	Both				
Damping:	0.0000 ft				
Length:	20.00 ft				
Contraction Coef:	0.00				
Expansion Coef:	0.00				
Entr Loss Coef:	0.00				
Exit Loss Coef:	0.00				
Bend Loss Coef:	0.00				
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Comment:

Channel Link: DC5-3		Upstream	Downstream
Scenario:	Scenario 1	Invert: 201.92 ft	Invert: 177.00 ft
From Node:	NZA-1340	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-1350	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-DOWNCHUTE 7'	Cross Section: X-DOWNCHUTE 7'
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	97.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Comment:

Channel Link: DC5-4		Upstream	Downstream
Scenario:	Scenario 1	Invert: 177.00 ft	Invert: 135.90 ft
From Node:	NZA-1350	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-1360	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-DOWNCHUTE 7'	Cross Section: X-DOWNCHUTE 7'
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	167.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	1.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Comment:

Channel Link: DC5-5		Upstream	Downstream
Scenario:	Scenario 1	Invert: 135.90 ft	Invert: 124.00 ft
From Node:	NZA-1360	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	SED POND 8	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-DOWNCHUTE 7'	Cross Section: X-DOWNCHUTE 7'
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	50.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		
Comment:			

Channel Link: DC6-1		Upstream	Downstream
Scenario:	Scenario 1	Invert: 223.00 ft	Invert: 192.00 ft
From Node:	NZA-0720	Manning's N: 0.0330	Manning's N: 0.0330
To Node:	NZA-0710	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-DOWNCHUTE 7'	Cross Section: X-DOWNCHUTE 7'
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	227.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		
Comment:			

Channel Link: DC6-2		Upstream	Downstream
Scenario:	Scenario 1	Invert: 189.07 ft	Invert: 171.93 ft
From Node:	NZA-1690	Manning's N: 0.0330	Manning's N: 0.0330
To Node:	NZA-1620	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-DOWNCHUTE 7'	Cross Section: X-DOWNCHUTE 7'
Flow Direction:	Both		

Damping: 0.0000 ft
 Length: 94.00 ft
 Contraction Coef: 0.00
 Expansion Coef: 0.00
 Entr Loss Coef: 0.00
 Exit Loss Coef: 0.00
 Bend Loss Coef: 0.00
 Bend Location: 0.00 dec
 Energy Switch: Energy

Comment:

Channel Link: DC6-2A		Upstream	Downstream
Scenario:	Scenario 1	Invert: 192.00 ft	Invert: 189.07 ft
From Node:	NZA-0710	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-1690	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-DOWNCHUTE 7'	Cross Section: X-DOWNCHUTE 7'
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	15.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Comment:

Channel Link: DC6-3		Upstream	Downstream
Scenario:	Scenario 1	Invert: 171.93 ft	Invert: 169.00 ft
From Node:	NZA-1620	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-0700	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-DOWNCHUTE 7'	Cross Section: X-DOWNCHUTE 7'
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	13.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Comment:

Channel Link: DC6-4		Upstream	Downstream
Scenario:	Scenario 1	Invert: 162.00 ft	Invert: 136.20 ft
From Node:	NZA-0700	Manning's N: 0.0330	Manning's N: 0.0330
To Node:	NZA-0690	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-DOWNCHUTE 7'	Cross Section: X-DOWNCHUTE 7'
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	123.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	1.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		
Comment:			

Channel Link: DC6-5		Upstream	Downstream
Scenario:	Scenario 1	Invert: 136.20 ft	Invert: 125.00 ft
From Node:	NZA-0690	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-0700A	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-DOWNCHUTE 7'	Cross Section: X-DOWNCHUTE 7'
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	45.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		
Comment:			

Channel Link: DC8-1		Upstream	Downstream
Scenario:	Scenario 1	Invert: 191.92 ft	Invert: 161.92 ft
From Node:	NZA-1470	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-1510	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-DOWNCHUTE 7'	Cross Section: X-DOWNCHUTE 7'
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	120.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		

Exit Loss Coef: 0.00
 Bend Loss Coef: 0.00
 Bend Location: 0.00 dec
 Energy Switch: Energy

Comment:

Channel Link: DC8-2		Upstream	Downstream
Scenario:	Scenario 1	Invert: 161.92 ft	Invert: 156.90 ft
From Node:	NZA-1510	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-1520	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-DOWNCHUTE 7'	Cross Section: X-DOWNCHUTE 7'
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	20.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Comment:

Channel Link: DC8-3		Upstream	Downstream
Scenario:	Scenario 1	Invert: 159.90 ft	Invert: 135.92 ft
From Node:	NZA-1520	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-1530	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-DOWNCHUTE 7'	Cross Section: X-DOWNCHUTE 7'
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	85.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	1.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Comment:

Channel Link: DC8-4		Upstream	Downstream
Scenario:	Scenario 1	Invert: 135.92 ft	Invert: 127.00 ft

From Node:	NZA-1530	Manning's N:	0.0000	Manning's N:	0.0000
To Node:	NZA-1790	Geometry:	Irregular	Geometry:	Irregular
Link Count:	1	Cross Section:	X-DOWNCHUTE 7'	Cross Section:	X-DOWNCHUTE 7'
Flow Direction:	Both				
Damping:	0.0000 ft				
Length:	20.00 ft				
Contraction Coef:	0.00				
Expansion Coef:	0.00				
Entr Loss Coef:	0.50				
Exit Loss Coef:	0.00				
Bend Loss Coef:	0.00				
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Comment:

Channel Link: DC9-1		Upstream	Downstream
Scenario:	Scenario 1	Invert: 223.58 ft	Invert: 192.04 ft
From Node:	NZA-0340	Manning's N: 0.0330	Manning's N: 0.0330
To Node:	NZA-0350	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-DOWNCHUTE 7'	Cross Section: X-DOWNCHUTE 7'
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	191.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Comment:

Channel Link: DC9-2		Upstream	Downstream
Scenario:	Scenario 1	Invert: 192.04 ft	Invert: 161.93 ft
From Node:	NZA-0350	Manning's N: 0.0330	Manning's N: 0.0330
To Node:	NZA-0360	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-DOWNCHUTE 7'	Cross Section: X-DOWNCHUTE 7'
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	156.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		

Bend Location: 0.00 dec

Energy Switch: Energy

Comment:

Channel Link: DC9-3		Upstream	Downstream
Scenario:	Scenario 1	Invert: 161.93 ft	Invert: 132.00 ft
From Node:	NZA-0360	Manning's N: 0.0330	Manning's N: 0.0330
To Node:	NZA-0430	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-DOWNCHUTE 7'	Cross Section: X-DOWNCHUTE 7'
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	116.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	1.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		
Comment:			

Channel Link: DC9-4		Upstream	Downstream
Scenario:	Scenario 1	Invert: 136.00 ft	Invert: 124.00 ft
From Node:	NZA-0430	Manning's N: 0.0330	Manning's N: 0.0330
To Node:	POND A-1	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-DOWNCHUTE 7'	Cross Section: X-DOWNCHUTE 7'
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	83.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		
Comment:			

Channel Link: L-0230C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 231.00 ft	Invert: 223.75 ft
From Node:	NZA-0260	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-0220	Geometry: Irregular	Geometry: Irregular

Link Count:	1	Cross Section:	X-Top Ditch	Cross Section:	X-Top Ditch
Flow Direction:	Both				
Damping:	0.0000 ft				
Length:	361.00 ft				
Contraction Coef:	0.00				
Expansion Coef:	0.00				
Entr Loss Coef:	0.00				
Exit Loss Coef:	0.00				
Bend Loss Coef:	0.00				
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Comment:

Channel Link: L-0250C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 207.00 ft	Invert: 200.00 ft
From Node:	NZA-0280	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-0230	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-Side Slope Ditch	Cross Section: X-Side Slope Ditch
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	326.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Comment:

Channel Link: L-0260C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 210.73 ft	Invert: 200.00 ft
From Node:	NZA-0290	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-0230	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-Side Slope Ditch	Cross Section: X-Side Slope Ditch
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	560.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Comment:

Channel Link: L-0270C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 176.96 ft	Invert: 170.00 ft
From Node:	NZA-0300	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-1670	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-Side Slope Ditch	Cross Section: X-Side Slope Ditch
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	327.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		
Comment:			

Channel Link: L-0280C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 178.45 ft	Invert: 166.00 ft
From Node:	NZA-0310	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-0240	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-Side Slope Ditch	Cross Section: X-Side Slope Ditch
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	582.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		
Comment:			

Channel Link: L-0290C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 140.00 ft	Invert: 133.00 ft
From Node:	NZA-0320	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-0250	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-Side Slope Ditch	Cross Section: X-Side Slope Ditch
Flow Direction:	Both		

Damping: 0.0000 ft
 Length: 354.00 ft
 Contraction Coef: 0.00
 Expansion Coef: 0.00
 Entr Loss Coef: 0.00
 Exit Loss Coef: 0.00
 Bend Loss Coef: 0.00
 Bend Location: 0.00 dec
 Energy Switch: Energy

Comment:

Channel Link: L-0300C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 145.93 ft	Invert: 133.00 ft
From Node:	NZA-0330	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-0250	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-Side Slope Ditch	Cross Section: X-Side Slope Ditch
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	650.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Comment:

Channel Link: L-0350C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 235.00 ft	Invert: 224.24 ft
From Node:	NZA-0440	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-1580	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-Top Ditch	Cross Section: X-Top Ditch
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	536.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Comment:

Channel Link: L-0360C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 240.84 ft	Invert: 227.34 ft
From Node:	NZA-0450	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-1570	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-Top Ditch	Cross Section: X-Top Ditch
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	674.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		
Comment:			

Channel Link: L-0370C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 202.86 ft	Invert: 192.04 ft
From Node:	NZA-0370	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-0350	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-Side Slope Ditch	Cross Section: X-Side Slope Ditch
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	563.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		
Comment:			

Channel Link: L-0380C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 199.64 ft	Invert: 192.00 ft
From Node:	NZA-0400	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-0350	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-Side Slope Ditch	Cross Section: X-Side Slope Ditch
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	363.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		

Exit Loss Coef: 0.00
 Bend Loss Coef: 0.00
 Bend Location: 0.00 dec
 Energy Switch: Energy

Comment:

Channel Link: L-0390C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 173.93 ft	Invert: 162.22 ft
From Node:	NZA-0380	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-0360	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-Side Slope Ditch	Cross Section: X-Side Slope Ditch
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	594.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Comment:

Channel Link: L-0400C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 149.90 ft	Invert: 132.00 ft
From Node:	NZA-0390	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-0430	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-Side Slope Ditch	Cross Section: X-Side Slope Ditch
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	630.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Comment:

Channel Link: L-0410C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 170.73 ft	Invert: 162.22 ft

From Node:	NZA-0410	Manning's N:	0.0000	Manning's N:	0.0000
To Node:	NZA-0360	Geometry:	Irregular	Geometry:	Irregular
Link Count:	1	Cross Section:	X-Side Slope Ditch	Cross Section:	X-Side Slope Ditch
Flow Direction:	Both				
Damping:	0.0000 ft				
Length:	432.00 ft				
Contraction Coef:	0.00				
Expansion Coef:	0.00				
Entr Loss Coef:	0.00				
Exit Loss Coef:	0.00				
Bend Loss Coef:	0.00				
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Comment:

Channel Link: L-0420C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 145.71 ft	Invert: 132.00 ft
From Node:	NZA-0420	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-0430	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-Side Slope Ditch	Cross Section: X-Side Slope Ditch
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	465.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Comment:

Channel Link: L-0460C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 231.84 ft	Invert: 223.58 ft
From Node:	NZA-0610	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-0570	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-Top Ditch	Cross Section: X-Top Ditch
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	429.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		

Bend Location: 0.00 dec

Energy Switch: Energy

Comment:

Channel Link: L-0470C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 205.35 ft	Invert: 197.00 ft
From Node:	NZA-0620	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-0580	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-Side Slope Ditch	Cross Section: X-Side Slope Ditch
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	409.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		
Comment:			

Channel Link: L-0480C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 176.24 ft	Invert: 167.00 ft
From Node:	NZA-0630	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-0590	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-Side Slope Ditch	Cross Section: X-Side Slope Ditch
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	451.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		
Comment:			

Channel Link: L-0490C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 147.00 ft	Invert: 136.00 ft
From Node:	NZA-0640	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-0600	Geometry: Irregular	Geometry: Irregular

Link Count:	1	Cross Section:	X-Side Slope Ditch	Cross Section:	X-Side Slope Ditch
Flow Direction:	Both				
Damping:	0.0000 ft				
Length:	490.00 ft				
Contraction Coef:	0.00				
Expansion Coef:	0.00				
Entr Loss Coef:	0.00				
Exit Loss Coef:	0.00				
Bend Loss Coef:	0.00				
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Comment:

Channel Link: L-0500C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 230.18 ft	Invert: 223.58 ft
From Node:	NZA-0650	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-0570	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-Top Ditch	Cross Section: X-Top Ditch
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	321.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Comment:

Channel Link: L-0510C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 204.73 ft	Invert: 197.00 ft
From Node:	NZA-0660	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-0580	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-Side Slope Ditch	Cross Section: X-Side Slope Ditch
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	398.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Comment:

Channel Link: L-0520C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 177.00 ft	Invert: 167.00 ft
From Node:	NZA-0670	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-0590	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-Side Slope Ditch	Cross Section: X-Side Slope Ditch
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	497.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		
Comment:			

Channel Link: L-0530C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 149.00 ft	Invert: 136.00 ft
From Node:	NZA-0680	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-0600	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-Side Slope Ditch	Cross Section: X-Side Slope Ditch
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	605.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		
Comment:			

Channel Link: L-0570C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 235.00 ft	Invert: 223.75 ft
From Node:	NZA-0500	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-0460	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-Top Ditch	Cross Section: X-Top Ditch
Flow Direction:	Both		

Damping: 0.0000 ft
 Length: 570.00 ft
 Contraction Coef: 0.00
 Expansion Coef: 0.00
 Entr Loss Coef: 0.00
 Exit Loss Coef: 0.00
 Bend Loss Coef: 0.00
 Bend Location: 0.00 dec
 Energy Switch: Energy

Comment:

Channel Link: L-0580C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 206.88 ft	Invert: 195.18 ft
From Node:	NZA-0510	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-1650	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-Side Slope Ditch	Cross Section: X-Side Slope Ditch
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	546.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Comment:

Channel Link: L-0590C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 173.96 ft	Invert: 161.92 ft
From Node:	NZA-0520	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-0480	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-Side Slope Ditch	Cross Section: X-Side Slope Ditch
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	566.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Comment:

Channel Link: L-0600C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 148.28 ft	Invert: 136.00 ft
From Node:	NZA-0530	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-0490	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-Side Slope Ditch	Cross Section: X-Side Slope Ditch
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	581.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		
Comment:			

Channel Link: L-0610C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 169.86 ft	Invert: 158.00 ft
From Node:	NZA-0560	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-1630	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-Side Slope Ditch	Cross Section: X-Side Slope Ditch
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	522.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		
Comment:			

Channel Link: L-0620C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 212.55 ft	Invert: 202.62 ft
From Node:	NZA-0550	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-1590	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-Side Slope Ditch	Cross Section: X-Side Slope Ditch
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	479.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		

Exit Loss Coef: 0.00
 Bend Loss Coef: 0.00
 Bend Location: 0.00 dec
 Energy Switch: Energy

Comment:

Channel Link: L-0630C	Upstream	Downstream
Scenario: Scenario 1	Invert: 239.66 ft	Invert: 223.75 ft
From Node: NZA-0540	Manning's N: 0.0000	Manning's N: 0.0000
To Node: NZA-0460	Geometry: Irregular	Geometry: Irregular
Link Count: 1	Cross Section: X-Top Ditch	Cross Section: X-Top Ditch
Flow Direction: Both		
Damping: 0.0000 ft		
Length: 795.00 ft		
Contraction Coef: 0.00		
Expansion Coef: 0.00		
Entr Loss Coef: 0.00		
Exit Loss Coef: 0.00		
Bend Loss Coef: 0.00		
Bend Location: 0.00 dec		
Energy Switch: Energy		

Comment:

Channel Link: L-0670C	Upstream	Downstream
Scenario: Scenario 1	Invert: 240.84 ft	Invert: 235.64 ft
From Node: NZA-0740	Manning's N: 0.0000	Manning's N: 0.0000
To Node: NZA-1660	Geometry: Irregular	Geometry: Irregular
Link Count: 1	Cross Section: X-Top Ditch	Cross Section: X-Top Ditch
Flow Direction: Both		
Damping: 0.0000 ft		
Length: 267.00 ft		
Contraction Coef: 0.00		
Expansion Coef: 0.00		
Entr Loss Coef: 0.00		
Exit Loss Coef: 0.00		
Bend Loss Coef: 0.00		
Bend Location: 0.00 dec		
Energy Switch: Energy		

Comment:

Channel Link: L-0680C	Upstream	Downstream
Scenario: Scenario 1	Invert: 230.35 ft	Invert: 224.26 ft

From Node:	NZA-0730	Manning's N:	0.0000	Manning's N:	0.0000
To Node:	NZA-0720	Geometry:	Irregular	Geometry:	Irregular
Link Count:	1	Cross Section:	X-Top Ditch	Cross Section:	X-Top Ditch
Flow Direction:	Both				
Damping:	0.0000 ft				
Length:	305.00 ft				
Contraction Coef:	0.00				
Expansion Coef:	0.00				
Entr Loss Coef:	0.00				
Exit Loss Coef:	0.00				
Bend Loss Coef:	0.00				
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Comment:

Channel Link: L-0690C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 197.18 ft	Invert: 189.07 ft
From Node:	NZA-0750	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-1690	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-Side Slope Ditch	Cross Section: X-Side Slope Ditch
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	445.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Comment:

Channel Link: L-0700C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 199.43 ft	Invert: 192.00 ft
From Node:	NZA-0800	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-0710	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-Side Slope Ditch	Cross Section: X-Side Slope Ditch
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	364.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		

Bend Location: 0.00 dec

Energy Switch: Energy

Comment:

Channel Link: L-0710C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 180.00 ft	Invert: 171.93 ft
From Node:	NZA-0790	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-1620	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-Side Slope Ditch	Cross Section: X-Side Slope Ditch
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	916.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		
Comment:			

Channel Link: L-0730C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 145.00 ft	Invert: 136.20 ft
From Node:	NZA-0770	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-0690	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-Side Slope Ditch	Cross Section: X-Side Slope Ditch
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	418.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		
Comment:			

Channel Link: L-0740C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 144.22 ft	Invert: 136.20 ft
From Node:	NZA-0780	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-0690	Geometry: Irregular	Geometry: Irregular

Link Count:	1	Cross Section:	X-Side Slope Ditch	Cross Section:	X-Side Slope Ditch
Flow Direction:	Both				
Damping:	0.0000 ft				
Length:	407.00 ft				
Contraction Coef:	0.00				
Expansion Coef:	0.00				
Entr Loss Coef:	0.00				
Exit Loss Coef:	0.00				
Bend Loss Coef:	0.00				
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Comment:

Channel Link: L-0870C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 160.29 ft	Invert: 152.03 ft
From Node:	NZA-0880	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-0870	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-Side Slope Ditch	Cross Section: X-Side Slope Ditch
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	387.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Comment:

Pipe Link: L-1040P		Upstream	Downstream
Scenario:	Scenario 1	Invert: 108.00 ft	Invert: 106.00 ft
From Node:	POND D	Manning's N: 0.0150	Manning's N: 0.0150
To Node:	NZV-1010	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 2.00 ft	Max Depth: 2.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.00 ft	Default: 0.00 ft
Length:	50.00 ft	Op Table:	Op Table:
FHWA Code:	0	Ref Node:	Ref Node:
Entr Loss Coef:	0.00	Manning's N: 0.0000	Manning's N: 0.0000
Exit Loss Coef:	0.00	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0000	Manning's N: 0.0000

Comment:

Channel Link: L-1060C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 235.00 ft	Invert: 223.75 ft
From Node:	NZA-1030	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-1040	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-Top Ditch	Cross Section: X-Top Ditch
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	562.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		
Comment:			

Channel Link: L-1070C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 235.04 ft	Invert: 223.75 ft
From Node:	NZA-1050	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-1040	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-Top Ditch	Cross Section: X-Top Ditch
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	564.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		
Comment:			

Channel Link: L-1080C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 203.60 ft	Invert: 191.96 ft
From Node:	NZA-1140	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-1060	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-Side Slope Ditch	Cross Section: X-Side Slope Ditch
Flow Direction:	Both		

Damping: 0.0000 ft
 Length: 560.00 ft
 Contraction Coef: 0.00
 Expansion Coef: 0.00
 Entr Loss Coef: 0.00
 Exit Loss Coef: 0.00
 Bend Loss Coef: 0.00
 Bend Location: 0.00 dec
 Energy Switch: Energy

Comment:

Channel Link: L-1090C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 202.86 ft	Invert: 191.96 ft
From Node:	NZA-1070	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-1060	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-Side Slope Ditch	Cross Section: X-Side Slope Ditch
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	526.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Comment:

Channel Link: L-1100C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 172.88 ft	Invert: 160.00 ft
From Node:	NZA-1080	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-1100	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-Side Slope Ditch	Cross Section: X-Side Slope Ditch
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	585.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Comment:

Channel Link: L-1110C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 173.96 ft	Invert: 162.00 ft
From Node:	NZA-1130	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-1640	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-Side Slope Ditch	Cross Section: X-Side Slope Ditch
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	580.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		
Comment:			

Channel Link: L-1120C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 147.24 ft	Invert: 134.92 ft
From Node:	NZA-1120	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-1110	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-Side Slope Ditch	Cross Section: X-Side Slope Ditch
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	588.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		
Comment:			

Channel Link: L-1130C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 147.76 ft	Invert: 134.92 ft
From Node:	NZA-1090	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-1110	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-Side Slope Ditch	Cross Section: X-Side Slope Ditch
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	628.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		

Exit Loss Coef: 0.00
 Bend Loss Coef: 0.00
 Bend Location: 0.00 dec
 Energy Switch: Energy

Comment:

Channel Link: L-1170C	Upstream	Downstream
Scenario: Scenario 1	Invert: 231.84 ft	Invert: 223.00 ft
From Node: NZA-1190	Manning's N: 0.0000	Manning's N: 0.0000
To Node: NZA-1180	Geometry: Irregular	Geometry: Irregular
Link Count: 1	Cross Section: X-Top Ditch	Cross Section: X-Top Ditch
Flow Direction: Both		
Damping: 0.0000 ft		
Length: 405.00 ft		
Contraction Coef: 0.00		
Expansion Coef: 0.00		
Entr Loss Coef: 0.00		
Exit Loss Coef: 0.00		
Bend Loss Coef: 0.00		
Bend Location: 0.00 dec		
Energy Switch: Energy		

Comment:

Channel Link: L-1180C	Upstream	Downstream
Scenario: Scenario 1	Invert: 231.53 ft	Invert: 223.00 ft
From Node: NZA-1260	Manning's N: 0.0000	Manning's N: 0.0000
To Node: NZA-1180	Geometry: Irregular	Geometry: Irregular
Link Count: 1	Cross Section: X-Top Ditch	Cross Section: X-Top Ditch
Flow Direction: Both		
Damping: 0.0000 ft		
Length: 388.00 ft		
Contraction Coef: 0.00		
Expansion Coef: 0.00		
Entr Loss Coef: 0.00		
Exit Loss Coef: 0.00		
Bend Loss Coef: 0.00		
Bend Location: 0.00 dec		
Energy Switch: Energy		

Comment:

Channel Link: L-1190C	Upstream	Downstream
Scenario: Scenario 1	Invert: 198.79 ft	Invert: 190.00 ft

From Node:	NZA-1200	Manning's N:	0.0000	Manning's N:	0.0000
To Node:	NZA-1170	Geometry:	Irregular	Geometry:	Irregular
Link Count:	1	Cross Section:	X-Side Slope Ditch	Cross Section:	X-Side Slope Ditch
Flow Direction:	Both				
Damping:	0.0000 ft				
Length:	417.00 ft				
Contraction Coef:	0.00				
Expansion Coef:	0.00				
Entr Loss Coef:	0.00				
Exit Loss Coef:	0.00				
Bend Loss Coef:	0.00				
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Comment:

Channel Link: L-1200C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 197.81 ft	Invert: 190.00 ft
From Node:	NZA-1250	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-1170	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-Side Slope Ditch	Cross Section: X-Side Slope Ditch
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	357.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Comment:

Channel Link: L-1210C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 169.68 ft	Invert: 161.00 ft
From Node:	NZA-1210	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-1160	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-Side Slope Ditch	Cross Section: X-Side Slope Ditch
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	450.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		

Bend Location: 0.00 dec

Energy Switch: Energy

Comment:

Channel Link: L-1220C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 168.95 ft	Invert: 161.00 ft
From Node:	NZA-1240	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-1160	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-Side Slope Ditch	Cross Section: X-Side Slope Ditch
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	353.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		
Comment:			

Channel Link: L-1230C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 147.00 ft	Invert: 138.00 ft
From Node:	NZA-1220	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-1150	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-Side Slope Ditch	Cross Section: X-Side Slope Ditch
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	457.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		
Comment:			

Channel Link: L-1240C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 151.18 ft	Invert: 144.19 ft
From Node:	NZA-1230	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-1600	Geometry: Irregular	Geometry: Irregular

Link Count:	1	Cross Section:	X-Side Slope Ditch	Cross Section:	X-Side Slope Ditch
Flow Direction:	Both				
Damping:	0.0000 ft				
Length:	350.00 ft				
Contraction Coef:	0.00				
Expansion Coef:	0.00				
Entr Loss Coef:	0.00				
Exit Loss Coef:	0.00				
Bend Loss Coef:	0.00				
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Comment:

Channel Link: L-1280C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 201.42 ft	Invert: 190.41 ft
From Node:	NZA-1300	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-1270	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-Side Slope Ditch	Cross Section: X-Side Slope Ditch
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	565.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Comment:

Channel Link: L-1290C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 181.73 ft	Invert: 162.00 ft
From Node:	NZA-1310	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-1280	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-Side Slope Ditch	Cross Section: X-Side Slope Ditch
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	958.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Comment:

Channel Link: L-1300C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 161.36 ft	Invert: 134.00 ft
From Node:	NZA-1320	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-1290	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-Side Slope Ditch	Cross Section: X-Side Slope Ditch
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	1358.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		
Comment:			

Channel Link: L-1330C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 230.35 ft	Invert: 223.75 ft
From Node:	NZA-1410	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-1330	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-Top Ditch	Cross Section: X-Top Ditch
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	328.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		
Comment:			

Channel Link: L-1340C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 214.90 ft	Invert: 206.92 ft
From Node:	NZA-1420	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-1610	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-Side Slope Ditch	Cross Section: X-Side Slope Ditch
Flow Direction:	Both		

Damping: 0.0000 ft
 Length: 381.00 ft
 Contraction Coef: 0.00
 Expansion Coef: 0.00
 Entr Loss Coef: 0.00
 Exit Loss Coef: 0.00
 Bend Loss Coef: 0.00
 Bend Location: 0.00 dec
 Energy Switch: Energy

Comment:

Channel Link: L-1350C	Upstream	Downstream
Scenario: Scenario 1	Invert: 184.98 ft	Invert: 177.00 ft
From Node: NZA-1430	Manning's N: 0.0000	Manning's N: 0.0000
To Node: NZA-1350	Geometry: Irregular	Geometry: Irregular
Link Count: 1	Cross Section: X-Side Slope Ditch	Cross Section: X-Side Slope Ditch
Flow Direction: Both		
Damping: 0.0000 ft		
Length: 385.00 ft		
Contraction Coef: 0.00		
Expansion Coef: 0.00		
Entr Loss Coef: 0.00		
Exit Loss Coef: 0.00		
Bend Loss Coef: 0.00		
Bend Location: 0.00 dec		
Energy Switch: Energy		

Comment:

Channel Link: L-1360C	Upstream	Downstream
Scenario: Scenario 1	Invert: 145.52 ft	Invert: 135.90 ft
From Node: NZA-1440	Manning's N: 0.0000	Manning's N: 0.0000
To Node: NZA-1360	Geometry: Irregular	Geometry: Irregular
Link Count: 1	Cross Section: X-Side Slope Ditch	Cross Section: X-Side Slope Ditch
Flow Direction: Both		
Damping: 0.0000 ft		
Length: 410.00 ft		
Contraction Coef: 0.00		
Expansion Coef: 0.00		
Entr Loss Coef: 0.00		
Exit Loss Coef: 0.00		
Bend Loss Coef: 0.00		
Bend Location: 0.00 dec		
Energy Switch: Energy		

Comment:

Channel Link: L-1370C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 149.75 ft	Invert: 135.90 ft
From Node:	NZA-1370	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-1360	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-Side Slope Ditch	Cross Section: X-Side Slope Ditch
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	649.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		
Comment:			

Channel Link: L-1380C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 190.38 ft	Invert: 177.00 ft
From Node:	NZA-1380	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-1350	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-Side Slope Ditch	Cross Section: X-Side Slope Ditch
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	580.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		
Comment:			

Channel Link: L-1390C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 213.69 ft	Invert: 201.92 ft
From Node:	NZA-1390	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-1340	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-Side Slope Ditch	Cross Section: X-Side Slope Ditch
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	544.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		

Exit Loss Coef: 0.00
 Bend Loss Coef: 0.00
 Bend Location: 0.00 dec
 Energy Switch: Energy

Comment:

Channel Link: L-1400C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 234.03 ft	Invert: 223.75 ft
From Node:	NZA-1400	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-1330	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-Top Ditch	Cross Section: X-Top Ditch
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	513.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Comment:

Channel Link: L-1480C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 179.16 ft	Invert: 169.00 ft
From Node:	NZA-0760	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-0700	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-Side Slope Ditch	Cross Section: X-Side Slope Ditch
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	480.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Comment:

Channel Link: L-1490C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 199.95 ft	Invert: 190.80 ft

From Node:	NZA-1490	Manning's N:	0.0000	Manning's N:	0.0000
To Node:	NZA-1470	Geometry:	Irregular	Geometry:	Irregular
Link Count:	1	Cross Section:	X-Side Slope Ditch	Cross Section:	X-Side Slope Ditch
Flow Direction:	Both				
Damping:	0.0000 ft				
Length:	443.00 ft				
Contraction Coef:	0.00				
Expansion Coef:	0.00				
Entr Loss Coef:	0.00				
Exit Loss Coef:	0.00				
Bend Loss Coef:	0.00				
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Comment:

Channel Link: L-1500C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 199.62 ft	Invert: 191.92 ft
From Node:	NZA-1480	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-1470	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-Side Slope Ditch	Cross Section: X-Side Slope Ditch
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	370.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Comment:

Channel Link: L-1510C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 166.00 ft	Invert: 159.90 ft
From Node:	NZA-1560	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-1520	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-Side Slope Ditch	Cross Section: X-Side Slope Ditch
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	430.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		

Bend Location: 0.00 dec

Energy Switch: Energy

Comment:

Channel Link: L-1520C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 171.49 ft	Invert: 161.92 ft
From Node:	NZA-1500	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-1510	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-Side Slope Ditch	Cross Section: X-Side Slope Ditch
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	477.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		
Comment:			

Channel Link: L-1530C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 145.71 ft	Invert: 135.92 ft
From Node:	NZA-1550	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-1530	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-Side Slope Ditch	Cross Section: X-Side Slope Ditch
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	458.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		
Comment:			

Channel Link: L-1570C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 140.88 ft	Invert: 137.15 ft
From Node:	NZA-1540	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-1530	Geometry: Irregular	Geometry: Irregular

Link Count:	1	Cross Section:	X-Side Slope Ditch	Cross Section:	X-Side Slope Ditch
Flow Direction:	Both				
Damping:	0.0000 ft				
Length:	178.00 ft				
Contraction Coef:	0.00				
Expansion Coef:	0.00				
Entr Loss Coef:	0.00				
Exit Loss Coef:	0.00				
Bend Loss Coef:	0.00				
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Comment:

Channel Link: L-1580C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 227.34 ft	Invert: 223.58 ft
From Node:	NZA-1570	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-0340	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-Top Ditch	Cross Section: X-Top Ditch
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	180.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Comment:

Channel Link: L-1590C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 224.24 ft	Invert: 223.58 ft
From Node:	NZA-1580	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-0340	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-Top Ditch	Cross Section: X-Top Ditch
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	42.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Comment:

Channel Link: L-1600C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 202.62 ft	Invert: 192.00 ft
From Node:	NZA-1590	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-0470	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-Side Slope Ditch	Cross Section: X-Side Slope Ditch
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	534.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		
Comment:			

Channel Link: L-1700C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 235.64 ft	Invert: 224.26 ft
From Node:	NZA-1660	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-0720	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-Top Ditch	Cross Section: X-Top Ditch
Flow Direction:	Both		
Damping:	0.0000 ft		
Length:	244.00 ft		
Contraction Coef:	0.00		
Expansion Coef:	0.00		
Entr Loss Coef:	0.00		
Exit Loss Coef:	0.00		
Bend Loss Coef:	0.00		
Bend Location:	0.00 dec		
Energy Switch:	Energy		
Comment:			

Channel Link: L-2340C		Upstream	Downstream
Scenario:	Scenario 1	Invert: 234.55 ft	Invert: 223.75 ft
From Node:	NZA-0270	Manning's N: 0.0000	Manning's N: 0.0000
To Node:	NZA-0220	Geometry: Irregular	Geometry: Irregular
Link Count:	1	Cross Section: X-Top Ditch	Cross Section: X-Top Ditch
Flow Direction:	Both		

Damping: 0.0000 ft
 Length: 540.00 ft
 Contraction Coef: 0.00
 Expansion Coef: 0.00
 Entr Loss Coef: 0.00
 Exit Loss Coef: 0.00
 Bend Loss Coef: 0.00
 Bend Location: 0.00 dec
 Energy Switch: Energy

Comment:

Channel Link: NE DITCH		Upstream	Downstream
Scenario:	Scenario 1	Invert: 135.00 ft	Invert: 132.00 ft
From Node:	NZA-0600A	Manning's N: 0.1400	Manning's N: 0.1400
To Node:	SED POND 4	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 5.00 ft	Max Depth: 5.00 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 20.00 ft	Bottom Width: 20.00 ft
Length:	500.00 ft	Left Slope: 3.000 (h:v)	Left Slope: 3.000 (h:v)
Contraction Coef:	0.00	Right Slope: 3.000 (h:v)	Right Slope: 3.000 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0000	Manning's N: 0.0000
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0000	Manning's N: 0.0000

Comment:

Channel Link: NE-DITCH-CHANNEL		Upstream	Downstream
Scenario:	Scenario 1	Invert: 138.00 ft	Invert: 127.70 ft
From Node:	NZA-1700	Manning's N: 0.1400	Manning's N: 0.1400
To Node:	SE-DITCH	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 20.00 ft	Bottom Width: 20.00 ft
Length:	860.00 ft	Left Slope: 3.000 (h:v)	Left Slope: 3.000 (h:v)
Contraction Coef:	0.00	Right Slope: 3.000 (h:v)	Right Slope: 3.000 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:

Bend Location:	0.00 dec	Manning's N:	0.0000	Manning's N:	0.0000
Energy Switch:	Energy	Top Clip			
		Default:	0.00 ft	Default:	0.00 ft
		Op Table:		Op Table:	
		Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Channel Link: NW DITCH		Upstream	Downstream
Scenario:	Scenario 1	Invert: 125.00 ft	Invert: 124.00 ft
From Node:	NZA-0700A	Manning's N: 0.1400	Manning's N: 0.1400
To Node:	SED POND 8	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 40.00 ft	Bottom Width: 40.00 ft
Length:	50.00 ft	Left Slope: 3.000 (h:v)	Left Slope: 3.000 (h:v)
Contraction Coef:	0.00	Right Slope: 3.000 (h:v)	Right Slope: 3.000 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0000	Manning's N: 0.0000
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0000	Manning's N: 0.0000

Comment:

Channel Link: NW-DITCH-CHANNEL		Upstream	Downstream
Scenario:	Scenario 1	Invert: 138.00 ft	Invert: 125.00 ft
From Node:	NZA-1780	Manning's N: 0.1400	Manning's N: 0.1400
To Node:	NZA-0700A	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 2.00 ft	Max Depth: 2.00 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 20.00 ft	Bottom Width: 20.00 ft
Length:	870.00 ft	Left Slope: 3.000 (h:v)	Left Slope: 3.000 (h:v)
Contraction Coef:	0.00	Right Slope: 3.000 (h:v)	Right Slope: 3.000 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0000	Manning's N: 0.0000
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft

Op Table:
Ref Node:
Manning's N: 0.0000

Op Table:
Ref Node:
Manning's N: 0.0000

Comment:

Weir Link: POND B WEIR

Scenario: Scenario 1
From Node: POND B
To Node: NZV-1020
Link Count: 1
Flow Direction: Both
Damping: 0.0000 ft
Weir Type: Sharp Crested Vertical
Geometry Type: Trapezoidal
Invert: 125.70 ft
Control Elevation: 125.70 ft
Max Depth: 1.75 ft
Extrapolation Method: Normal Projection
Bottom Width: 25.00 ft
Left Slope: 5.000 (h:v)
Right Slope: 5.000 (h:v)

Bottom Clip

Default: 0.00 ft

Op Table:

Ref Node:

Top Clip

Default: 0.00 ft

Op Table:

Ref Node:

Discharge Coefficients

Weir Default: 2.800

Weir Table:

Orifice Default: 0.600

Orifice Table:

Comment:

Channel Link: ROAD SWALE

Scenario: Scenario 1
From Node: NZA-RS
To Node: NZA-0490
Link Count: 1
Flow Direction: Both
Damping: 0.0000 ft
Length: 1750.00 ft
Contraction Coef: 0.00
Expansion Coef: 0.00
Entr Loss Coef: 0.00
Exit Loss Coef: 0.00
Bend Loss Coef: 0.00
Bend Location: 0.00 dec
Energy Switch: Energy

Upstream

Invert: 239.00 ft
Manning's N: 0.0330
Geometry: Trapezoidal
Max Depth: 2.00 ft
Extrapolation: Normal
Bottom Width: 3.00 ft
Left Slope: 3.000 (h:v)
Right Slope: 3.000 (h:v)

Downstream

Invert: 136.00 ft
Manning's N: 0.0330
Geometry: Trapezoidal
Max Depth: 2.00 ft
Extrapolation: Normal
Bottom Width: 3.00 ft
Left Slope: 3.000 (h:v)
Right Slope: 3.000 (h:v)

Bottom Clip

Default: 0.00 ft

Op Table:

Ref Node:

Manning's N: 0.0000

Default: 0.00 ft

Op Table:

Ref Node:

Manning's N: 0.0000

Top Clip

Default: 0.00 ft

Op Table:

Ref Node:

Manning's N: 0.0000

Default: 0.00 ft

Op Table:

Ref Node:

Manning's N: 0.0000

Comment:

Drop Structure Link: S-10		Upstream Pipe	Downstream Pipe
Scenario:	Scenario 1	Invert: 121.69 ft	Invert: 121.00 ft
From Node:	POND B	Manning's N: 0.0130	Manning's N: 0.0130
To Node:	NZV-1020	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction:	Both	Bottom Clip	
Solution:	Combine	Default: 0.00 ft	Default: 0.00 ft
Increments:	0	Op Table:	Op Table:
Pipe Count:	1	Ref Node:	Ref Node:
Damping:	0.0000 ft	Manning's N: 0.0000	Manning's N: 0.0000
Length:	129.00 ft	Top Clip	
FHWA Code:	0	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef:	0.50	Op Table:	Op Table:
Exit Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Loss Coef:	0.00	Manning's N: 0.0000	Manning's N: 0.0000
Bend Location:	0.00 dec		
Energy Switch:	Diff Wave		
Pipe Comment:			

Weir Component			
Weir: 1		Bottom Clip	
Weir Count: 1		Default:	0.00 ft
Weir Flow Direction: Both		Op Table:	
Damping: 0.0000 ft		Ref Node:	
Weir Type: Sharp Crested Vertical		Top Clip	
Geometry Type: Rectangular		Default:	0.00 ft
Invert: 123.00 ft		Op Table:	
Control Elevation: 123.00 ft		Ref Node:	
Max Depth: 0.60 ft		Discharge Coefficients	
Max Width: 1.25 ft		Weir Default:	3.200
Fillet: 0.00 ft		Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	
Weir Comment:			

Weir Component			
Weir:	2	Bottom Clip	
Weir Count:	1	Default:	0.00 ft
Weir Flow Direction:	Both	Op Table:	
Damping:	0.0000 ft	Ref Node:	
Weir Type:	Sharp Crested Vertical	Top Clip	
Geometry Type:	Rectangular	Default:	0.00 ft
Invert:	123.60 ft	Op Table:	
Control Elevation:	123.60 ft	Ref Node:	
Max Depth:	3.00 ft	Discharge Coefficients	
Max Width:	7.00 ft	Weir Default:	3.200
Fillet:	0.00 ft	Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	
Weir Comment:			

Drop Structure Comment:

Drop Structure Link: S-10A		Upstream Pipe	Downstream Pipe
Scenario:	Scenario 1	Invert: 121.50 ft	Invert: 121.00 ft
From Node:	POND B	Manning's N: 0.0130	Manning's N: 0.0130
To Node:	NZV-1020	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction:	Both	Bottom Clip	
Solution:	Combine	Default: 0.00 ft	Default: 0.00 ft
Increments:	0	Op Table:	Op Table:
Pipe Count:	1	Ref Node:	Ref Node:
Damping:	0.0000 ft	Manning's N: 0.0000	Manning's N: 0.0000
Length:	100.00 ft	Top Clip	
FHWA Code:	0	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef:	0.50	Op Table:	Op Table:
Exit Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Loss Coef:	0.00	Manning's N: 0.0000	Manning's N: 0.0000
Bend Location:	0.00 dec		
Energy Switch:	Energy		

Pipe Comment:

Weir Component		
Weir:	1	Bottom Clip
Weir Count:	1	Default: 0.00 ft
Weir Flow Direction:	Both	Op Table:
Damping:	0.0000 ft	Ref Node:
Weir Type:	Sharp Crested Vertical	Top Clip
Geometry Type:	Rectangular	Default: 0.00 ft
Invert:	123.60 ft	Op Table:
Control Elevation:	123.60 ft	Ref Node:
Max Depth:	3.00 ft	Discharge Coefficients
Max Width:	7.00 ft	Weir Default: 3.200
Fillet:	0.00 ft	Weir Table:
		Orifice Default: 0.600
		Orifice Table:

Weir Comment:

Drop Structure Comment:

Pipe Link: S-20		Upstream	Downstream
Scenario:	Scenario 1	Invert: 115.32 ft	Invert: 114.60 ft
From Node:	SED POND 8	Manning's N: 0.0130	Manning's N: 0.0130
To Node:	POND D	Geometry: Circular	Geometry: Circular
Link Count:	2	Max Depth: 4.00 ft	Max Depth: 4.00 ft

Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.00 ft	Default: 0.00 ft
Length:	91.00 ft	Op Table:	Op Table:
FHWA Code:	0	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0000	Manning's N: 0.0000
Exit Loss Coef:	1.00	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0000	Manning's N: 0.0000
Comment:			

Pipe Link: S-21		Upstream	Downstream
Scenario:	Scenario 1	Invert: 123.16 ft	Invert: 122.95 ft
From Node:	SEC12-B	Manning's N: 0.0130	Manning's N: 0.0130
To Node:	POND D	Geometry: Circular	Geometry: Circular
Link Count:	2	Max Depth: 5.00 ft	Max Depth: 5.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.00 ft	Default: 0.00 ft
Length:	35.00 ft	Op Table:	Op Table:
FHWA Code:	0	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0000	Manning's N: 0.0000
Exit Loss Coef:	1.00	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0000	Manning's N: 0.0000
Comment:			

Pipe Link: S-29		Upstream	Downstream
Scenario:	Scenario 1	Invert: 119.55 ft	Invert: 117.01 ft
From Node:	SED POND 2	Manning's N: 0.0130	Manning's N: 0.0130
To Node:	SED POND 8	Geometry: Circular	Geometry: Circular
Link Count:	2	Max Depth: 2.50 ft	Max Depth: 2.50 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.00 ft	Default: 0.00 ft
Length:	114.00 ft	Op Table:	Op Table:
FHWA Code:	0	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0000	Manning's N: 0.0000
Exit Loss Coef:	1.00	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0000	Manning's N: 0.0000
Comment:			

Pipe Link: S-30		Upstream	Downstream
Scenario:	Scenario 1	Invert: 125.02 ft	Invert: 124.96 ft
From Node:	SED POND 4	Manning's N: 0.0130	Manning's N: 0.0130
To Node:	SED POND 3	Geometry: Circular	Geometry: Circular
Link Count:	3	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.00 ft	Default: 0.00 ft
Length:	119.00 ft	Op Table:	Op Table:
FHWA Code:	0	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0000	Manning's N: 0.0000
Exit Loss Coef:	1.00	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0000	Manning's N: 0.0000
Comment:			

Pipe Link: S-32		Upstream	Downstream
Scenario:	Scenario 1	Invert: 122.99 ft	Invert: 121.99 ft
From Node:	SED POND A-3	Manning's N: 0.0130	Manning's N: 0.0130
To Node:	POND B	Geometry: Circular	Geometry: Circular
Link Count:	2	Max Depth: 2.00 ft	Max Depth: 3.20 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.00 ft	Default: 0.00 ft
Length:	355.00 ft	Op Table:	Op Table:
FHWA Code:	0	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0000	Manning's N: 0.0000
Exit Loss Coef:	1.00	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0000	Manning's N: 0.0000
Comment:			

Pipe Link: S-33		Upstream	Downstream
Scenario:	Scenario 1	Invert: 120.00 ft	Invert: 120.00 ft
From Node:	SED POND A-2	Manning's N: 0.0130	Manning's N: 0.0130
To Node:	SED POND A-3	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.00 ft	Default: 0.00 ft
Length:	81.00 ft	Op Table:	Op Table:
FHWA Code:	0	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0000	Manning's N: 0.0000
Exit Loss Coef:	1.00	Top Clip	

Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Pipe Link: S-5		Upstream	Downstream
Scenario:	Scenario 1	Invert: 127.00 ft	Invert: 126.00 ft
From Node:	POND F	Manning's N: 0.0130	Manning's N: 0.0130
To Node:	POND G	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 1.17 ft	Max Depth: 1.84 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.00 ft	Default: 0.00 ft
Length:	73.39 ft	Op Table:	Op Table:
FHWA Code:	0	Ref Node:	Ref Node:
Entr Loss Coef:	0.00	Manning's N: 0.0000	Manning's N: 0.0000
Exit Loss Coef:	0.00	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0000	Manning's N: 0.0000

Comment:

Pipe Link: S-50		Upstream	Downstream
Scenario:	Scenario 1	Invert: 122.10 ft	Invert: 120.07 ft
From Node:	SED POND 3	Manning's N: 0.0130	Manning's N: 0.0130
To Node:	SED POND 2	Geometry: Circular	Geometry: Circular
Link Count:	2	Max Depth: 24.00 ft	Max Depth: 24.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.00 ft	Default: 0.00 ft
Length:	108.00 ft	Op Table:	Op Table:
FHWA Code:	0	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0000	Manning's N: 0.0000
Exit Loss Coef:	1.00	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0000	Manning's N: 0.0000

Comment:

Pipe Link: S-6		Upstream	Downstream
Scenario:	Scenario 1	Invert: 126.00 ft	Invert: 124.54 ft

From Node:	POND G	Manning's N:	0.0130	Manning's N:	0.0130
To Node:	SED POND A-2	Geometry:	Circular	Geometry:	Circular
Link Count:	1	Max Depth:	1.17 ft	Max Depth:	1.84 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	50.00 ft	Op Table:		Op Table:	
FHWA Code:	0	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.00	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Pipe Link: S-8	Upstream	Downstream
Scenario: Scenario 1	Invert: 126.70 ft	Invert: 126.51 ft
From Node: NZA-0490	Manning's N: 0.0130	Manning's N: 0.0130
To Node: POND B	Geometry: Horizontal Ellipse	Geometry: Horizontal Ellipse
Link Count: 2	Max Depth: 2.80 ft	Max Depth: 4.50 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.00 ft	Default: 0.00 ft
Length: 100.00 ft	Op Table:	Op Table:
FHWA Code: 0	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0000	Manning's N: 0.0000
Exit Loss Coef: 0.00	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0000	Manning's N: 0.0000

Comment: ERCP - Elliptical Concrete Pipe x2

Pipe Link: S-9	Upstream	Downstream
Scenario: Scenario 1	Invert: 125.30 ft	Invert: 125.00 ft
From Node: NZA-1460	Manning's N: 0.0120	Manning's N: 0.0120
To Node: SED POND A-3	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 2.00 ft	Max Depth: 2.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.00 ft	Default: 0.00 ft
Length: 343.00 ft	Op Table:	Op Table:
FHWA Code: 0	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0000	Manning's N: 0.0000
Exit Loss Coef: 0.00	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 dec	Op Table:	Op Table:

Energy Switch: Energy

Ref Node:
Manning's N: 0.0000Ref Node:
Manning's N: 0.0000

Comment:

Channel Link: SE-DITCH-CHANNEL

Scenario: Scenario 1
 From Node: SE-DITCH
 To Node: NZA-1460
 Link Count: 1
 Flow Direction: Both
 Damping: 0.0000 ft
 Length: 1060.00 ft
 Contraction Coef: 0.00
 Expansion Coef: 0.00
 Entr Loss Coef: 0.00
 Exit Loss Coef: 0.00
 Bend Loss Coef: 0.00
 Bend Location: 0.00 dec
 Energy Switch: Energy

Upstream

Invert: 127.70 ft
 Manning's N: 0.1400
 Geometry: Trapezoidal
 Max Depth: 5.00 ft
 Extrapolation: Normal
 Bottom Width: 30.00 ft
 Left Slope: 3.000 (h:v)
 Right Slope: 3.000 (h:v)

Downstream

Invert: 125.00 ft
 Manning's N: 0.1400
 Geometry: Trapezoidal
 Max Depth: 5.00 ft
 Extrapolation: Normal
 Bottom Width: 30.00 ft
 Left Slope: 3.000 (h:v)
 Right Slope: 3.000 (h:v)

Bottom Clip

Default: 0.00 ft
 Op Table:
 Ref Node:
 Manning's N: 0.0000

Default: 0.00 ft
 Op Table:
 Ref Node:
 Manning's N: 0.0000

Top Clip

Default: 0.00 ft
 Op Table:
 Ref Node:
 Manning's N: 0.0000

Default: 0.00 ft
 Op Table:
 Ref Node:
 Manning's N: 0.0000

Comment:

Channel Link: SPILLWAY12

Scenario: Scenario 1
 From Node: SEC12-2
 To Node: SEC12-B
 Link Count: 1
 Flow Direction: Both
 Damping: 0.0000 ft
 Length: 200.00 ft
 Contraction Coef: 0.00
 Expansion Coef: 0.00
 Entr Loss Coef: 0.00
 Exit Loss Coef: 0.00
 Bend Loss Coef: 0.00
 Bend Location: 0.00 dec
 Energy Switch: Energy

Upstream

Invert: 127.00 ft
 Manning's N: 0.0120
 Geometry: Trapezoidal
 Max Depth: 3.00 ft
 Extrapolation: Normal
 Bottom Width: 20.00 ft
 Left Slope: 4.000 (h:v)
 Right Slope: 4.000 (h:v)

Downstream

Invert: 123.15 ft
 Manning's N: 0.0120
 Geometry: Trapezoidal
 Max Depth: 3.00 ft
 Extrapolation: Normal
 Bottom Width: 20.00 ft
 Left Slope: 4.000 (h:v)
 Right Slope: 4.000 (h:v)

Bottom Clip

Default: 0.00 ft
 Op Table:
 Ref Node:
 Manning's N: 0.0000

Default: 0.00 ft
 Op Table:
 Ref Node:
 Manning's N: 0.0000

Top Clip

Default: 0.00 ft
 Op Table:
 Ref Node:
 Manning's N: 0.0000

Default: 0.00 ft
 Op Table:
 Ref Node:
 Manning's N: 0.0000

Comment:

Channel Link: SW-DITCH-CHANNEL-A		Upstream	Downstream
Scenario:	Scenario 1	Invert: 128.00 ft	Invert: 127.00 ft
From Node:	NZA-0890	Manning's N: 0.1400	Manning's N: 0.1400
To Node:	NZA-1790	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 2.00 ft	Max Depth: 2.00 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 5.00 ft	Bottom Width: 5.00 ft
Length:	200.00 ft	Left Slope: 2.000 (h:v)	Left Slope: 2.000 (h:v)
Contraction Coef:	0.00	Right Slope: 2.000 (h:v)	Right Slope: 2.000 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0000	Manning's N: 0.0000
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0000	Manning's N: 0.0000
Comment:			

Channel Link: SW-DITCH-CHANNEL-B		Upstream	Downstream
Scenario:	Scenario 1	Invert: 127.00 ft	Invert: 125.68 ft
From Node:	NZA-1790	Manning's N: 0.1400	Manning's N: 0.1400
To Node:	NZA-1800	Geometry: Trapezoidal	Geometry: Trapezoidal
Link Count:	1	Max Depth: 2.00 ft	Max Depth: 2.00 ft
Flow Direction:	Both	Extrapolation: Normal	Extrapolation: Normal
Damping:	0.0000 ft	Bottom Width: 5.00 ft	Bottom Width: 5.00 ft
Length:	140.00 ft	Left Slope: 2.000 (h:v)	Left Slope: 2.000 (h:v)
Contraction Coef:	0.00	Right Slope: 2.000 (h:v)	Right Slope: 2.000 (h:v)
Expansion Coef:	0.00	Bottom Clip	
Entr Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Exit Loss Coef:	0.00	Op Table:	Op Table:
Bend Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Location:	0.00 dec	Manning's N: 0.0000	Manning's N: 0.0000
Energy Switch:	Energy	Top Clip	
		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0000	Manning's N: 0.0000
Comment:			

Pipe Link: TS-6		Upstream	Downstream
Scenario:	Scenario 1	Invert: 125.68 ft	Invert: 125.55 ft
From Node:	NZA-1800	Manning's N: 0.0130	Manning's N: 0.0130

To Node:	POND A-1	Geometry: Circular	Geometry: Circular
Link Count:	2	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.00 ft	Default: 0.00 ft
Length:	30.00 ft	Op Table:	Op Table:
FHWA Code:	0	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0000	Manning's N: 0.0000
Exit Loss Coef:	1.00	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 dec	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0000	Manning's N: 0.0000
Comment:			

Simulation: 25yr,24hr

Scenario: Scenario 1
Run Date/Time: 1/31/2022 9:54:26 AM
Program Version: ICPR4 4.07.08

General				
Run Mode:	Normal			
	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	24.0000
	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]	
Min Calculation Time:	60.0000	0.0500	900.0000	
Max Calculation Time:		10.0000		

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	60.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:
Reference ET Folder:
Unit Hydrograph
Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set: 1

Green-Ampt Set:
Vertical Layers Set:
Impervious Set: 1
Roughness Set:
Crop Coef Set:
Fillable Porosity Set:
Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight: 0.5 dec
Fact:
dZ Tolerance: 0.0001 ft

Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0000 ft

Edge Length Option: Automatic

Dflt Damping (2D): 0.0100 ft
Min Node Srf Area: 100 ft2
(2D):
Energy Switch (2D): Energy

IA Recovery Time: 24.0000 hr
ET for Manual Basins: False

Smp/Man Basin Rain: Global
Opt:
OF Region Rain Opt: Global
Rainfall Name: ~SCSII-24
Rainfall Amount: 8.40 in
Storm Duration: 24.0000 hr

Dflt Damping (1D): 0.0100 ft
Min Node Srf Area: 100 ft2
(1D):
Energy Switch (1D): Energy

Comment:

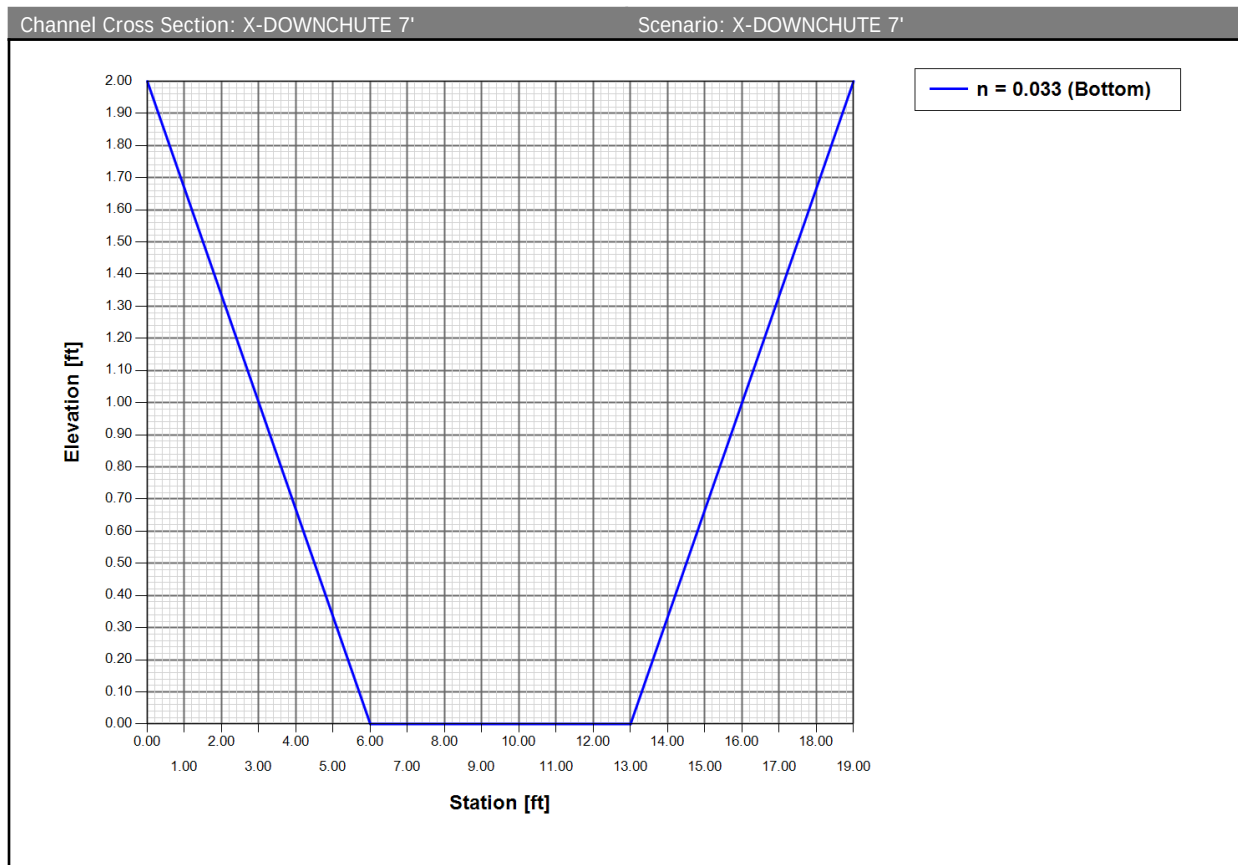
Channel Cross Section: X-DOWNCHUTE 7'

Scenario: Scenario 1
Lid: No
Conveyance Method: ICPRv3

Bottom Point Table

Order	Station [ft]	Elevation [ft]	Manning's N
0	0.00	2.00	0.0330
1	6.00	0.00	0.0330
2	13.00	0.00	0.0330
3	19.00	2.00	0.0330

Comment:



Channel Cross Section: X-Side Slope Ditch

Scenario: Scenario 1

Lid: No

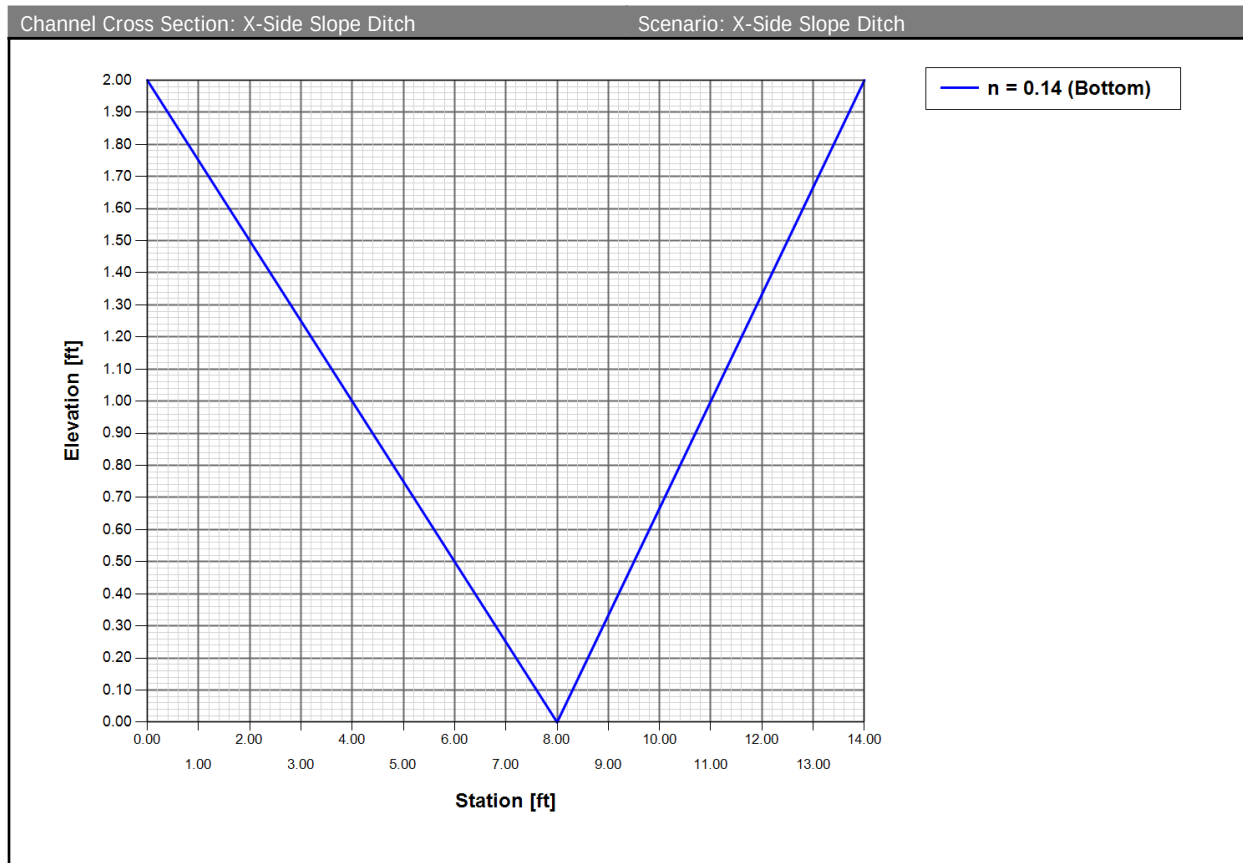
Conveyance Method: ICPRv3

Bottom Point Table

Order	Station [ft]	Elevation [ft]	Manning's N
0	0.00	2.00	0.1400
1	8.00	0.00	0.1400

Order	Station [ft]	Elevation [ft]	Manning's N
2	14.00	2.00	0.1400

Comment:



Channel Cross Section: X-Top Ditch

Scenario: Scenario 1

Lid: No

Conveyance Method: ICPRv3

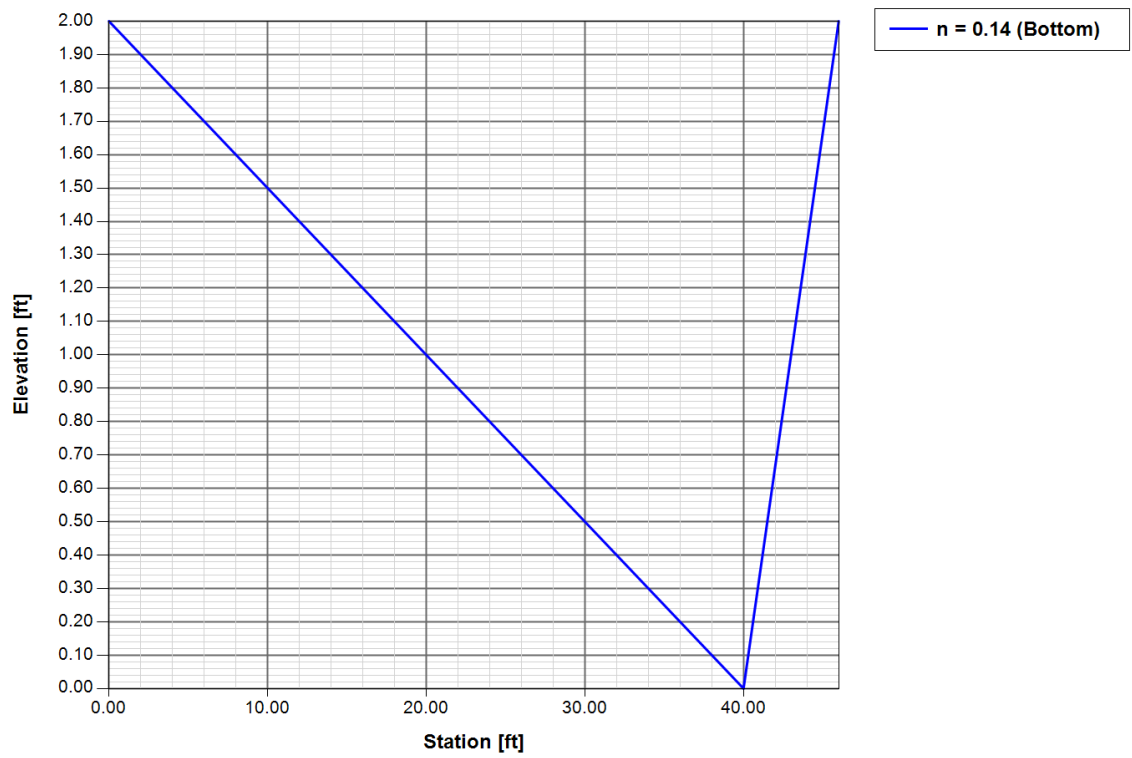
Bottom Point Table

Order	Station [ft]	Elevation [ft]	Manning's N
0	0.00	2.00	0.1400
1	40.00	0.00	0.1400
2	46.00	2.00	0.1400

Comment:

Channel Cross Section: X-Top Ditch

Scenario: X-Top Ditch



CLIENT Hillsborough Southeast County Landfill	PROJECT Southeast County Landfill - Phase I-VI Closure	JOB NO. 09215600.13
SUBJECT Time of Concentration Calculation	BY AV	DATE 11/11/2021
	CHECKED SPL	DATE 12/16/2021

Objective:

Evaluate Time of Concentration of each sub-basin of the proposed design.

Methodology:

Time of concentration (Tc) is conservatively estimated for all basins assuming a Tc of 8 min for all sub-basins in the closure. This includes Phase I-VI sub-basins at 5% on the top of crown and 25% on the side slopes. A shorter Tc translates to higher peak stages in the perimeter ditch system and thus is a more conservative model and calculation.

A conservative Tc of 8 minutes was selected by evaluating a sampling of sub-basins using the TR-55 Method. For those sub-basins, the calculated Tc was utilized in the model:

Sheet Flow

$$T_t = \frac{0.007(nL)^{0.8}}{(P_2)^{0.5}S^{0.4}}$$

Open Channel Flow

$$V = \frac{1.49r^{\frac{2}{3}}S^{\frac{1}{2}}}{n}$$

Shallow Concentrated Flow

$$T_t = \frac{L}{3600V}$$

$$T_t = \frac{L}{3600V}$$

$$T_c = Tt_1 + Tt_2 + \dots + Tt_m$$

Rainfall, P2 (25yr-24hr) 7.89 in obtained from NOAA station closest to the landfill

Manning's Roughness, n 0.15 for sheet flow short grassed ditch

Manning's Roughness, n 0.14 for open channel flow short grassed ditch

Crown: 5% (20:1) Slope 0.05 Average velocity V= 3.6

Side 25% (4:1) Slope 0.25 Average velocity V= 8.2

Subcatchments	Flow Type	Tt (hr)	V (ft/s)	n	L (ft)	P2 (in)	S (ft/ft)	r (ft)	a (ft^2)	Pw (ft)	Tc (hr)	Tc (min)
Z08	Sheet Flow	0.0997	-	0.15	150	7.89	0.05	-	-	-	0.26	15.77
	Shallow Concentrated Flow	0.0147	3.6	-	190	-	-	-	-	-		
	Open Channel Flow	0.1484	1.49710476	0.14	800	-	0.02	0.99194	46	46.374		
D03	Sheet Flow	0.0997	-	0.15	150	7.89	0.05	-	-	-	0.20	11.79
	Shallow Concentrated Flow	0.0063	3.6	-	81	-	-	-	-	-		
	Shallow Concentrated Flow	0.0014	8.2	-	42	-	-	-	-	-		
	Open Channel Flow	0.0891	1.46600155	0.14	470	-	0.02	0.96088	14	14.57		
K03	Sheet Flow	0.0997	-	0.15	150	7.89	0.05	-	-	-	0.26	15.69
	Shallow Concentrated Flow	0.0146	3.6	-	189	-	-	-	-	-		
	Shallow Concentrated Flow	0.0017	8.2	-	50	-	-	-	-	-		
	Open Channel Flow	0.1455	1.46600155	0.14	768	-	0.02	0.96088	14	14.57		
L03	Sheet Flow	0.0997	-	0.15	150	7.89	0.05	-	-	-	0.26	15.66
	Shallow Concentrated Flow	0.0063	3.6	-	81	-	-	-	-	-		
	Shallow Concentrated Flow	0.0018	8.2	-	54	-	-	-	-	-		
	Open Channel Flow	0.1533	1.46600155	0.14	809	-	0.02	0.96088	14	14.57		
O03	Sheet Flow	0.0997	-	0.15	150	7.89	0.05	-	-	-	0.21	12.79
	Shallow Concentrated Flow	0.0063	3.6	-	82	-	-	-	-	-		
	Shallow Concentrated Flow	0.0023	8.2	-	68	-	-	-	-	-		
	Open Channel Flow	0.1048	1.46600155	0.14	553	-	0.02	0.96088	14	14.57		
M03	Sheet Flow	0.0997	-	0.15	150	7.89	0.05	-	-	-	0.21	12.47
	Shallow Concentrated Flow	0.0079	3.6	-	102	-	-	-	-	-		
	Shallow Concentrated Flow	0.0023	8.2	-	68	-	-	-	-	-		
	Open Channel Flow	0.0980	1.46600155	0.14	517	-	0.02	0.96088	14	14.57		
Q03	Sheet Flow	0.0997	-	0.15	150	7.89	0.05	-	-	-	0.18	10.59
	Shallow Concentrated Flow	0.0094	3.6	-	122	-	-	-	-	-		
	Shallow Concentrated Flow	0.0037	8.2	-	109	-	-	-	-	-		
	Open Channel Flow	0.0637	1.46600155	0.14	336	-	0.02	0.96088	14	14.57		

treatment to prevent entry to facilities that present a hazard to children and, to a lesser extent, all persons. **Section 3.7** provides general criteria. Provide protective treatment for open channels in the form of fencing when a potential hazard exists.

2.6.2 Roadside Safety

The design and location of open channels will comply with roadside safety and clear zone requirements. See the **FDM** for clear zone requirements, including special clearance criteria for canals.

2.7 DOCUMENTATION

Design documentation for open channels will include hydrologic and hydraulic analyses, calculated freeboard and channel lining requirements. For roadside ditches, **Figure 2-1** provides the required standard format for documentation.

Table 2.2: Manning's "n" Values for Artificial Channels with Bare Soil and Vegetative Linings

<u>Channel Lining</u>	<u>Description</u>	<u>Design "n"</u>
Bare Earth, Fairly Uniform	Clean, recently completed	0.02
Bare Earth, Fairly Uniform	Short grass and some weeds	0.03
Dragline Excavated	No Vegetation	0.03
Dragline Excavated	Light Brush	0.04
Maintained Grass or Sodded Ditches	Good stand, well maintained 2 to 6 inches	0.06*
Channels not Maintained	Clear bottom, brush sides	0.08
Channels not Maintained	Dense weeds to flow depth	0.10
Maintained Grass or Sodded Ditches	Fair stand, length 12 to 24 inches	0.20*

* Decrease 30 percent for flows > 0.7 ft depth (max flow depth 1.5 ft)

n = 0.14 for
terraces, grassed
channels

Table 2.3: Manning's "n" Values for Artificial Channels with Rigid Linings

<u>Channel Lining</u>	<u>Description</u>	<u>Design "n"</u>
Concrete Paved	Broomed*	0.016
Concrete Paved	"Roughened" - Standard	0.020
Concrete Paved	Gunitite	0.020
Concrete Paved	Over Rubble	0.023
Rubble Riprap	Ditch Lining	0.035

Concrete of GFFR

* Broomed is not the standard finish and must be specified when used (see **Standard Specification 524-7**)

Table 2.4: Maximum Shear Stress Values and Allowable Velocities for Different Soils

<u>Soil Type</u>	<u>Shear Stress, (psf⁺)</u>	<u>*Allowable Velocity (fps[#])</u>
Silt or Fine Sand	0.027	1.50
Sandy Loam	0.037	1.75
Silt Loam	0.048	2.00
Firm Loam	0.075	2.50
Stiff Clay	0.260	3.75
Hardpans	0.670	6.00

* For a flow depth of approximately 3 ft

⁺ psf is pounds per square foot

[#] fps is feet per second

Reference: University of Florida (1972)

Table 2. Adjustment values for factors that affect the roughness of a channel

[Modified from Aldridge and Garrett, 1973, table 2]

0.013 represents
matting of GFFR

Channel conditions		<i>n</i> value adjustment ¹	Example
Degree of irregularity (<i>n</i> ₁)	Smooth	0.000	Compares to the smoothest channel attainable in a given bed material.
	Minor	0.001–0.005	Compares to carefully dredged channels in good condition but having slightly eroded or scoured side slopes.
	Moderate	0.006–0.010	Compares to dredged channels having moderate to considerable bed roughness and moderately sloughed or eroded side slopes.
	Severe	0.011–0.020	Badly sloughed or scalloped banks of natural streams; badly eroded or sloughed sides of canals or drainage channels; unshaped, jagged, and irregular surfaces of channels in rock.
Variation in channel cross section (<i>n</i> ₂)	Gradual	0.000	Size and shape of channel cross sections change gradually.
	Alternating occasionally	0.001–0.005	Large and small cross sections alternate occasionally, or the main flow occasionally shifts from side to side owing to changes in cross-sectional shape.
	Alternating frequently	0.010–0.015	Large and small cross sections alternate frequently, or the main flow frequently shifts from side to side owing to changes in cross-sectional shape.
Effect of obstruction (<i>n</i> ₃)	Negligible	0.000–0.004	A few scattered obstructions, which include debris deposits, stumps, exposed roots, logs, piers, or isolated boulders, that occupy less than 5 percent of the cross-sectional area.
	Minor	0.005–0.015	Obstructions occupy less than 15 percent of the cross-sectional area, and the spacing between obstructions is such that the sphere of influence around one obstruction does not extend to the sphere of influence around another obstruction. Smaller adjustments are used for curved smooth-surfaced objects than are used for sharp-edged angular objects.
	Appreciable	0.020–0.030	Obstructions occupy from 15 to 50 percent of the cross-sectional area, or the space between obstructions is small enough to cause the effects of several obstructions to be additive, thereby blocking an equivalent part of a cross section.
	Severe	0.040–0.050	Obstructions occupy more than 50 percent of the cross-sectional area, or the space between obstructions is small enough to cause turbulence across most of the cross section.
Amount of vegetation (<i>n</i> ₄)	Small	0.002–0.010	Dense growths of flexible turf grass, such as Bermuda, or weeds growing where the average depth of flow is at least two times the height of the vegetation; supple tree seedlings such as willow, cottonwood, arrowweed, or saltcedar growing where the average depth of flow is at least three times the height of the vegetation.
	Medium	0.010–0.025	Turf grass growing where the average depth of flow is from one to two times the height of the vegetation; moderately dense stemmy grass, weeds, or tree seedlings growing where the average depth of flow is from two to three times the height of the vegetation; brushy, moderately dense vegetation, similar to 1- to 2-year-old willow trees in the dormant season, growing along the banks, and no significant vegetation is evident along the channel bottoms where the hydraulic radius exceeds 2 ft.
	Large	0.025–0.050	Turf grass growing where the average depth of flow is about equal to the height of the vegetation; 8- to 10-year-old willow or cottonwood trees intergrown with some weeds and brush (none of the vegetation in foliage) where the hydraulic radius exceeds 2 ft; bushy willows about 1 year old intergrown with some weeds along side slopes (all vegetation in full foliage), and no significant vegetation exists along channel bottoms where the hydraulic radius is greater than 2 ft.
	Very large	0.050–0.100	Turf grass growing where the average depth of flow is less than half the height of the vegetation; bushy willow trees about 1 year old intergrown with weeds along side slopes (all vegetation in full foliage), or dense cattails growing along channel bottom; trees intergrown with weeds and brush (all vegetation in full foliage).
Degree of meandering ² (<i>m</i>)	Minor	1.00	Ratio of the channel length to valley length is 1.0 to 1.2.
	Appreciable	1.15	Ratio of the channel length to valley length is 1.2 to 1.5.
	Severe	1.30	Ratio of the channel length to valley length is greater than 1.5.

¹ Adjustments for degree of irregularity, variations in cross section, effect of obstructions, and vegetation are added to the base *n* value (table 1) before multiplying by the adjustment for meander.

² Adjustment values apply to flow confined in the channel and do not apply where downvalley flow crosses meanders.

GFFR, $n = 0.020 + 0.013 = 0.033$
Used for ICPR model

Table B-7: SCS Runoff Curve Numbers – Agricultural, Suburban, and Urban Land

Land Use Description	Hydrologic Soil Group			
	A	B	C	D
Cultivated Land ^a :				
Without conservation treatment	72	81	88	91
With conservation treatment	62	71	78	81
Pasture or range land:				
Poor condition	68	79	86	89
Good condition	39	61	74	80
Meadow: good condition	30	58	71	78
Wood or Forest Land:				
Thin stand, poor cover, no mulch	45	66	77	83
Good cover ^b	25	55	70	77
Open Spaces, Lawns, Parks, Golf Courses, Cemeteries:				
Good condition: grass cover on 75% or more of the area	39	61	74	80
Fair condition: grass cover on 50% to 75% of the area	49	69	79	84
Poor condition: grass cover on 50% or less of the area	68	79	86	89
Commercial and Business Areas (85% impervious)	89	92	94	95
Industrial Districts (72% impervious)	81	88	91	93
Residential ^c				
Average lot size Average % Impervious ^d				
1/8 acre or less 65	77	85	90	92
1/4 acre 38	61	75	83	87
1/3 acre 30	57	72	81	86
1/2 acre 25	54	70	80	85
1 acre 20	51	68	79	84
Paved Parking Lots, Roofs, Driveways ^e :	98	98	98	98
Streets and Roads:				
Paved with curbs and storm sewers ^e	98	98	98	98
Gravel	76	85	89	91
Dirt	72	82	87	89
Paved with open ditches	83	89	92	93
Newly graded area (no vegetation established) ^f	77	86	91	94

^a For a more detailed description of agricultural land use curve numbers, refer to Table B-8.

^b Good cover is protected from grazing and litter and brush cover soil.

^c Curve numbers are computed assuming the runoff from the house and driveway is directed toward the street with a minimum of roof water directed to lawns where additional infiltration could occur, which depends on the depth and degree of the permeability of the underlying strata.

^d The remaining pervious areas (lawn) are considered to be in good pasture condition for these curve numbers.

^e In some warmer climates of the country, a curve number of 96 may be used.

^f Use for temporary conditions during grading and construction.

Note: These values are for Antecedent Moisture Condition II, and $I_a = 0.2S$.

Reference: USDA, SCS, TR-55 (1984).



ICPR Outputs

Link Min/Max Conditions [Scenario 1]

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]	Min/Max Delta Flow [cfs]	Max Us Velocity [fps]	Max Ds Velocity [fps]	Max Avg Velocity [fps]
A-1 Riser - Pipe	25yr,24hr	10.26	0.00	0.53	0.00	0.00	0.00
A-1 Riser - Weir: 1	25yr,24hr	10.26	0.00	-0.01	5.81	5.81	5.81
A-1 Riser - Weir: 2	25yr,24hr	0.00	0.00	0.00	0.00	0.00	0.00
CH12A	25yr,24hr	69.47	0.00	0.00	2.52	1.60	2.06
CH13A	25yr,24hr	114.19	0.00	-0.06	2.63	6.04	4.32
DC-7	25yr,24hr	8.14	0.00	0.00	3.08	0.28	1.67
DC-Sec12A	25yr,24hr	75.46	0.00	-0.01	5.50	13.20	9.35
DC-Sec13	25yr,24hr	75.68	0.00	-0.01	5.50	13.55	9.53
DC-Sec13A	25yr,24hr	70.18	0.00	-0.01	5.40	2.20	3.70
DC1-1	25yr,24hr	5.35	0.00	0.00	2.72	11.84	7.28
DC1-2	25yr,24hr	15.63	0.00	0.00	3.69	12.46	8.08
DC1-3	25yr,24hr	23.51	0.00	0.00	0.52	0.18	0.35
DC10-1	25yr,24hr	70.30	0.00	0.00	5.40	13.73	9.57
DC10-2	25yr,24hr	98.89	0.00	-0.01	5.85	15.89	10.87
DC10-3	25yr,24hr	107.61	0.00	-0.01	5.97	12.93	9.45
DC10-4	25yr,24hr	117.23	0.00	-0.01	6.08	16.32	11.20
DC10-5	25yr,24hr	130.98	0.00	-0.01	6.24	14.69	10.47
DC11-1	25yr,24hr	60.34	0.00	0.00	5.21	0.83	3.02
DC11-2	25yr,24hr	74.75	0.00	0.00	5.48	12.46	8.97
DC11-3	25yr,24hr	107.27	0.00	-0.01	5.96	16.33	11.15
DC11-4	25yr,24hr	117.39	0.00	-0.01	6.09	16.98	11.53
DC11-5	25yr,24hr	126.61	0.00	-0.01	6.19	16.32	11.26
DC2-1	25yr,24hr	12.93	0.00	0.00	3.50	10.91	7.21
DC2-2	25yr,24hr	29.88	0.00	0.00	4.38	11.08	7.73
DC2-3	25yr,24hr	44.54	0.00	0.00	4.84	20.83	12.83
DC2-4	25yr,24hr	61.61	0.00	-0.02	5.24	2.88	3.92
DC3-1	25yr,24hr	48.94	0.00	-0.01	4.95	11.98	8.47
DC3-2	25yr,24hr	75.01	0.00	-0.01	5.49	14.54	10.01
DC3-3	25yr,24hr	90.32	0.00	-0.01	5.73	15.38	10.55
DC3-4	25yr,24hr	94.04	0.00	-0.01	5.78	15.59	10.69
DC3-5	25yr,24hr	100.90	0.00	-0.01	5.88	14.17	10.02
DC4-1	25yr,24hr	78.18	0.00	-0.03	5.54	13.98	9.76
DC4-2	25yr,24hr	102.80	0.00	-0.01	5.90	16.13	11.02
DC4-3	25yr,24hr	108.49	0.00	-0.01	5.98	16.72	11.35
DC4-4	25yr,24hr	120.90	0.00	-0.01	6.13	16.36	11.24
DC4-5	25yr,24hr	139.44	0.00	0.68	6.33	10.86	8.59
DC5-1	25yr,24hr	46.58	0.00	0.00	4.89	11.67	8.28
DC5-2	25yr,24hr	54.46	0.00	-0.01	5.08	12.67	8.88
DC5-3	25yr,24hr	66.42	0.00	-0.01	5.33	13.90	9.62
DC5-4	25yr,24hr	81.34	0.00	-0.01	5.59	14.81	10.20
DC5-5	25yr,24hr	105.59	0.00	-0.01	5.94	15.93	10.94
DC6-1	25yr,24hr	27.27	0.00	0.00	4.28	9.31	6.80
DC6-2	25yr,24hr	46.34	0.00	0.00	4.89	10.80	7.85

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]	Min/Max Delta Flow [cfs]	Max Us Velocity [fps]	Max Ds Velocity [fps]	Max Avg Velocity [fps]
DC6-2A	25yr,24hr	34.49	0.00	0.00	4.54	11.14	7.84
DC6-3	25yr,24hr	49.69	0.00	0.00	4.97	12.00	8.49
DC6-4	25yr,24hr	54.19	0.00	0.00	5.08	12.04	8.56
DC6-5	25yr,24hr	69.83	0.00	-0.01	5.40	14.05	9.72
DC8-1	25yr,24hr	36.67	0.00	0.00	4.61	12.60	8.61
DC8-2	25yr,24hr	44.96	0.00	0.00	4.85	0.69	2.77
DC8-3	25yr,24hr	53.86	0.00	-0.01	5.07	13.43	9.25
DC8-4	25yr,24hr	63.06	0.00	0.55	5.27	1.30	3.28
DC9-1	25yr,24hr	22.70	0.00	0.00	4.08	10.20	7.14
DC9-2	25yr,24hr	36.74	0.00	0.00	4.61	11.09	7.85
DC9-3	25yr,24hr	48.40	0.00	0.00	4.94	0.57	2.75
DC9-4	25yr,24hr	60.03	0.00	0.00	5.21	11.20	8.20
L-0230C	25yr,24hr	38.37	0.00	-0.01	1.05	3.89	2.47
L-0250C	25yr,24hr	9.45	0.00	0.00	1.34	2.34	1.48
L-0260C	25yr,24hr	16.72	0.00	0.00	1.16	2.85	1.77
L-0270C	25yr,24hr	6.92	0.00	0.00	1.32	1.70	1.13
L-0280C	25yr,24hr	13.45	0.00	0.00	1.39	2.62	1.64
L-0290C	25yr,24hr	7.99	0.00	0.00	1.41	0.80	0.97
L-0300C	25yr,24hr	15.33	0.00	0.00	1.65	1.42	1.28
L-0350C	25yr,24hr	12.34	0.00	0.00	1.09	1.07	1.00
L-0360C	25yr,24hr	14.02	0.00	0.00	1.12	1.25	1.04
L-0370C	25yr,24hr	15.03	0.00	0.00	1.07	4.07	2.57
L-0380C	25yr,24hr	6.56	0.00	0.00	0.91	3.45	2.17
L-0390C	25yr,24hr	9.14	0.00	0.00	0.95	3.67	2.31
L-0400C	25yr,24hr	8.14	0.00	0.00	1.57	1.37	0.91
L-0410C	25yr,24hr	6.86	0.00	0.00	0.89	3.48	2.18
L-0420C	25yr,24hr	6.82	0.00	0.00	1.49	1.20	0.83
L-0460C	25yr,24hr	7.73	0.00	0.00	0.69	2.86	1.77
L-0470C	25yr,24hr	8.85	0.00	0.00	0.96	3.65	2.31
L-0480C	25yr,24hr	7.32	0.00	0.00	0.93	3.28	2.06
L-0490C	25yr,24hr	8.64	0.00	0.00	1.03	3.00	1.92
L-0500C	25yr,24hr	5.21	0.00	0.00	0.64	2.62	1.63
L-0510C	25yr,24hr	9.09	0.00	0.00	0.95	3.68	2.32
L-0520C	25yr,24hr	8.01	0.00	0.00	0.94	3.39	2.12
L-0530C	25yr,24hr	9.69	0.00	0.00	1.02	3.24	2.04
L-0570C	25yr,24hr	35.12	0.00	0.01	1.03	3.56	2.24
L-0580C	25yr,24hr	14.65	0.00	0.00	1.13	3.44	2.17
L-0590C	25yr,24hr	11.85	0.00	0.00	1.40	2.77	1.73
L-0600C	25yr,24hr	8.23	0.00	0.00	0.94	3.60	2.27
L-0610C	25yr,24hr	11.76	0.00	0.00	1.49	2.55	1.61
L-0620C	25yr,24hr	17.40	0.00	0.00	1.74	0.82	1.27
L-0630C	25yr,24hr	30.67	0.00	0.00	1.00	3.13	1.97
L-0670C	25yr,24hr	14.24	0.00	0.00	0.97	1.44	1.11
L-0680C	25yr,24hr	14.62	0.00	0.01	0.82	3.17	1.99
L-0690C	25yr,24hr	12.65	0.00	0.00	1.01	3.92	2.47
L-0700C	25yr,24hr	7.96	0.00	0.00	0.94	3.58	2.26
L-0710C	25yr,24hr	3.66	0.00	0.00	0.60	2.28	1.33

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]	Min/Max Delta Flow [cfs]	Max Us Velocity [fps]	Max Ds Velocity [fps]	Max Avg Velocity [fps]
L-0730C	25yr,24hr	8.22	0.00	0.00	1.04	2.76	1.72
L-0740C	25yr,24hr	9.05	0.00	0.00	1.00	2.91	1.86
L-0870C	25yr,24hr	8.15	0.00	0.00	0.95	3.59	2.27
L-1040P	25yr,24hr	31.22	0.00	-2.68	10.19	13.95	12.03
L-1060C	25yr,24hr	38.23	0.00	0.01	1.07	3.29	2.07
L-1070C	25yr,24hr	35.13	0.00	0.00	1.05	3.06	1.92
L-1080C	25yr,24hr	19.64	0.00	0.01	1.24	4.14	2.63
L-1090C	25yr,24hr	17.74	0.00	0.00	1.20	3.72	2.35
L-1100C	25yr,24hr	11.60	0.00	0.00	1.43	2.36	1.52
L-1110C	25yr,24hr	10.61	0.00	0.00	1.34	2.39	1.52
L-1120C	25yr,24hr	11.14	0.00	0.00	1.44	2.20	1.43
L-1130C	25yr,24hr	11.58	0.00	0.00	1.43	2.29	1.47
L-1170C	25yr,24hr	23.52	0.00	0.00	0.98	2.98	1.87
L-1180C	25yr,24hr	27.18	0.00	0.01	1.01	3.32	2.10
L-1190C	25yr,24hr	15.99	0.00	0.00	1.14	3.92	2.49
L-1200C	25yr,24hr	12.33	0.00	0.00	1.12	3.42	2.17
L-1210C	25yr,24hr	9.38	0.00	0.00	1.14	2.57	1.58
L-1220C	25yr,24hr	7.21	0.00	0.00	1.31	2.13	1.35
L-1230C	25yr,24hr	7.64	0.00	0.00	1.27	1.87	1.21
L-1240C	25yr,24hr	4.21	0.00	0.00	1.21	1.35	0.95
L-1280C	25yr,24hr	5.41	0.00	0.00	0.83	3.33	2.08
L-1290C	25yr,24hr	10.63	0.00	0.00	1.00	3.81	2.40
L-1300C	25yr,24hr	12.25	0.00	0.00	1.02	3.90	2.46
L-1330C	25yr,24hr	24.88	0.00	0.01	0.96	3.30	2.08
L-1340C	25yr,24hr	8.73	0.00	0.00	0.99	3.40	2.15
L-1350C	25yr,24hr	7.82	0.00	0.00	1.18	2.55	1.58
L-1360C	25yr,24hr	11.22	0.00	0.00	1.41	2.78	1.75
L-1370C	25yr,24hr	15.33	0.00	0.00	1.21	3.00	1.88
L-1380C	25yr,24hr	8.38	0.00	0.00	1.22	2.51	1.56
L-1390C	25yr,24hr	12.87	0.00	0.00	1.09	3.67	2.32
L-1400C	25yr,24hr	23.51	0.00	0.00	0.94	3.01	1.88
L-1480C	25yr,24hr	4.63	0.00	0.00	0.82	3.19	2.01
L-1490C	25yr,24hr	19.78	0.00	0.00	1.48	1.47	1.47
L-1500C	25yr,24hr	17.58	0.00	-0.01	1.18	4.21	2.69
L-1510C	25yr,24hr	9.51	0.00	0.00	0.87	3.46	2.12
L-1520C	25yr,24hr	8.84	0.00	0.00	0.96	3.54	2.22
L-1530C	25yr,24hr	6.78	0.00	0.00	1.25	1.98	1.27
L-1570C	25yr,24hr	3.38	0.00	0.00	0.78	3.02	1.90
L-1580C	25yr,24hr	11.90	0.00	0.00	0.81	2.94	1.85
L-1590C	25yr,24hr	11.16	0.00	0.01	0.82	2.93	1.86
L-1600C	25yr,24hr	32.83	0.00	0.01	1.49	4.30	2.76
L-1700C	25yr,24hr	12.99	0.00	-0.01	1.11	3.13	2.12
L-2340C	25yr,24hr	42.51	0.00	-0.01	1.06	3.94	2.50
NE DITCH	25yr,24hr	51.95	0.00	0.01	0.96	4.16	2.56
NE-DITCH-CH ANNEL	25yr,24hr	15.59	0.00	0.00	1.08	0.43	0.75
NW DITCH	25yr,24hr	80.17	0.00	0.05	1.47	3.89	2.68

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]	Min/Max Delta Flow [cfs]	Max Us Velocity [fps]	Max Ds Velocity [fps]	Max Avg Velocity [fps]
NW-DITCH-C HANNEL	25yr,24hr	16.55	0.00	0.00	1.18	0.69	0.91
POND B WEIR	25yr,24hr	0.16	0.00	0.00	0.00	0.00	0.00
ROAD SWALE	25yr,24hr	25.70	0.00	0.00	4.55	6.84	5.70
S-10 - Pipe	25yr,24hr	35.95	0.00	0.79	0.00	0.00	0.00
S-10 - Weir: 1	25yr,24hr	3.89	0.00	0.24	5.18	5.18	5.18
S-10 - Weir: 2	25yr,24hr	32.46	0.00	0.05	3.43	3.43	3.43
S-10A - Pipe	25yr,24hr	34.19	0.00	0.01	0.00	0.00	0.00
S-10A - Weir: 1	25yr,24hr	34.19	0.00	0.02	3.61	3.61	3.61
S-20	25yr,24hr	179.45	0.00	27.47	9.07	10.89	9.97
S-21	25yr,24hr	167.54	0.00	0.58	8.14	9.80	8.97
S-29	25yr,24hr	72.13	0.00	-8.43	7.73	12.98	10.16
S-30	25yr,24hr	116.02	0.00	0.39	5.47	7.62	6.54
S-32	25yr,24hr	26.29	-2.34	0.00	4.18	1.98	3.08
S-33	25yr,24hr	7.95	-43.84	0.01	-6.20	-6.20	-6.20
S-5	25yr,24hr	5.26	0.00	0.00	5.67	6.60	6.13
S-50	25yr,24hr	178.62	0.00	23.38	6.14	11.57	8.68
S-6	25yr,24hr	1.75	0.00	0.02	3.64	6.29	4.96
S-8	25yr,24hr	153.35	0.00	0.46	8.74	7.08	7.91
S-9	25yr,24hr	17.11	0.00	0.04	5.45	6.83	6.13
SE-DITCH-CH ANNEL	25yr,24hr	44.01	0.00	0.00	0.74	0.57	0.65
SPILLWAY12	25yr,24hr	168.26	0.00	-0.01	5.68	1.68	3.68
SW-DITCH-C HANNEL-A	25yr,24hr	9.01	0.00	0.00	0.47	0.28	0.38
SW-DITCH-C HANNEL-B	25yr,24hr	71.52	0.00	-0.01	1.95	2.79	2.12
TS-6	25yr,24hr	71.20	0.00	20.81	6.48	7.37	6.46

Node Max Conditions [Scenario 1]

Node Name	Sim Name	Warning Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]	Max Total Outflow [cfs]	Max Surface Area [ft2]
NZA-0220	25yr,24hr	225.75	224.30	-0.0005	80.74	78.18	12866
NZA-0230	25yr,24hr	202.00	201.52	-0.0001	103.56	102.80	6411
NZA-0240	25yr,24hr	168.00	167.66	-0.0001	121.29	120.90	4582
NZA-0250	25yr,24hr	135.50	135.41	-0.0001	141.35	139.44	8194
NZA-0260	25yr,24hr	233.04	232.78	0.0001	39.30	38.37	8135
NZA-0270	25yr,24hr	236.55	236.41	0.0001	44.99	42.51	11655
NZA-0280	25yr,24hr	209.00	208.51	0.0001	9.07	9.45	1687
NZA-0290	25yr,24hr	212.78	212.76	0.0001	17.34	16.72	3694
NZA-0300	25yr,24hr	179.96	178.22	0.0001	6.64	6.92	1478
NZA-0310	25yr,24hr	180.45	180.21	0.0001	13.42	13.45	3482
NZA-0320	25yr,24hr	142.00	141.27	0.0001	8.18	7.99	1896
NZA-0330	25yr,24hr	147.93	147.56	0.0001	15.41	15.33	4084
NZA-0340	25yr,24hr	225.58	224.21	0.0000	22.78	22.70	2902
NZA-0350	25yr,24hr	194.04	192.88	0.0000	36.92	36.74	5443
NZA-0360	25yr,24hr	164.22	162.92	0.0000	48.71	48.40	5259
NZA-0370	25yr,24hr	204.86	204.87	0.0001	15.92	15.03	3464
NZA-0380	25yr,24hr	175.93	175.59	0.0001	9.88	9.14	3026
NZA-0390	25yr,24hr	151.90	151.12	0.0001	8.92	8.14	3545
NZA-0400	25yr,24hr	201.64	201.08	-0.0001	6.78	6.56	1614
NZA-0410	25yr,24hr	172.73	172.21	0.0001	7.23	6.86	1967
NZA-0420	25yr,24hr	147.71	146.86	0.0000	7.30	6.82	2560
NZA-0430	25yr,24hr	137.70	137.12	0.0001	61.33	60.03	9620
NZA-0440	25yr,24hr	237.00	236.04	0.0000	12.29	12.34	6377
NZA-0450	25yr,24hr	242.84	241.97	0.0001	14.50	14.02	8558
NZA-0460	25yr,24hr	225.75	224.87	0.0000	65.69	60.34	20633
NZA-0470	25yr,24hr	194.00	193.55	0.0001	107.53	107.27	4332
NZA-0480	25yr,24hr	164.00	163.55	0.0001	117.63	117.39	4024
NZA-0490	25yr,24hr	138.00	129.03	0.0001	154.50	153.35	8909
NZA-0500	25yr,24hr	237.00	236.73	0.0001	37.14	35.12	10257
NZA-0510	25yr,24hr	208.88	208.80	-0.0001	15.28	14.65	3362
NZA-0520	25yr,24hr	175.96	175.64	-0.0001	11.74	11.85	3235
NZA-0530	25yr,24hr	150.28	149.86	0.0001	9.88	8.23	4853
NZA-0540	25yr,24hr	241.66	241.30	0.0001	34.17	30.67	13720
NZA-0550	25yr,24hr	214.55	214.24	-0.0001	17.80	17.40	3095
NZA-0560	25yr,24hr	171.86	171.47	-0.0001	11.18	11.76	2900
NZA-0570	25yr,24hr	225.00	223.45	0.0000	12.93	12.93	618
NZA-0580	25yr,24hr	199.00	197.75	0.0000	30.25	29.88	4319
NZA-0590	25yr,24hr	169.00	167.94	0.0000	44.94	44.54	4608
NZA-0600	25yr,24hr	139.00	137.14	0.0001	62.45	61.61	6872
NZA-0600A	25yr,24hr	137.12	137.06	0.0001	61.61	51.95	14359
NZA-0610	25yr,24hr	242.00	232.82	0.0000	9.20	7.73	7252
NZA-0620	25yr,24hr	207.35	206.97	0.0001	9.22	8.85	2042
NZA-0630	25yr,24hr	178.24	177.74	0.0001	7.67	7.32	2140
NZA-0640	25yr,24hr	149.00	148.55	0.0001	9.00	8.64	2472
NZA-0650	25yr,24hr	231.50	231.02	0.0000	5.94	5.21	4650
NZA-0660	25yr,24hr	206.73	206.38	0.0001	9.44	9.09	2019

Node Name	Sim Name	Warning Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]	Max Total Outflow [cfs]	Max Surface Area [ft2]
NZA-0670	25yr,24hr	179.00	178.56	0.0001	8.48	8.01	2443
NZA-0680	25yr,24hr	151.00	150.65	0.0001	10.32	9.69	3203
NZA-0690	25yr,24hr	138.20	137.42	0.0001	70.30	69.83	5089
NZA-0700	25yr,24hr	171.00	163.06	0.0000	54.20	54.19	839
NZA-0700A	25yr,24hr	126.52	126.25	0.0000	82.37	80.17	13987
NZA-0710	25yr,24hr	194.00	192.81	0.0000	34.60	34.49	2440
NZA-0720	25yr,24hr	226.26	223.71	0.0000	27.29	27.27	1214
NZA-0730	25yr,24hr	232.35	231.60	0.0001	15.85	14.62	6592
NZA-0740	25yr,24hr	242.84	242.02	-0.0001	14.36	14.24	3476
NZA-0750	25yr,24hr	199.18	199.07	0.0001	13.20	12.65	2581
NZA-0760	25yr,24hr	181.16	180.43	0.0000	5.46	4.63	3211
NZA-0770	25yr,24hr	147.00	146.52	0.0001	8.41	8.22	2099
NZA-0780	25yr,24hr	146.22	145.83	0.0001	9.29	9.05	2142
NZA-0790	25yr,24hr	182.00	181.32	0.0000	4.87	3.66	3978
NZA-0800	25yr,24hr	201.43	200.99	0.0001	8.26	7.96	1744
NZA-0870	25yr,24hr	154.03	151.96	0.0000	8.15	8.14	642
NZA-0880	25yr,24hr	162.29	161.85	-0.0001	8.98	8.15	3207
NZA-0890	25yr,24hr	132.00	130.29	0.0001	8.88	9.01	2420
NZA-1030	25yr,24hr	237.00	236.77	0.0001	39.68	38.23	10501
NZA-1040	25yr,24hr	225.75	224.98	0.0000	73.35	70.30	18361
NZA-1050	25yr,24hr	237.04	236.75	0.0001	36.46	35.13	10247
NZA-1060	25yr,24hr	194.00	193.40	0.0000	99.30	98.89	7646
NZA-1070	25yr,24hr	205.00	204.92	0.0001	18.17	17.74	3428
NZA-1080	25yr,24hr	174.88	174.53	-0.0001	11.46	11.60	3287
NZA-1090	25yr,24hr	149.76	149.43	0.0001	11.43	11.58	3570
NZA-1100	25yr,24hr	162.00	161.63	0.0001	117.39	117.23	4172
NZA-1110	25yr,24hr	136.92	136.65	0.0001	131.63	130.98	8131
NZA-1120	25yr,24hr	149.24	148.86	0.0001	10.77	11.14	3262
NZA-1130	25yr,24hr	175.96	175.59	-0.0001	10.65	10.61	3205
NZA-1140	25yr,24hr	205.75	205.73	0.0001	20.16	19.64	3665
NZA-1150	25yr,24hr	140.00	139.50	-0.0001	101.04	100.90	2789
NZA-1160	25yr,24hr	163.00	162.41	-0.0001	90.78	90.32	5093
NZA-1170	25yr,24hr	192.00	191.27	-0.0001	75.52	75.01	5392
NZA-1180	25yr,24hr	225.00	224.00	0.0000	50.70	48.94	11056
NZA-1190	25yr,24hr	233.84	233.28	0.0001	24.26	23.52	6185
NZA-1200	25yr,24hr	200.79	200.79	-0.0001	16.44	15.99	2642
NZA-1210	25yr,24hr	171.68	171.26	0.0001	9.44	9.38	2406
NZA-1220	25yr,24hr	149.00	148.34	0.0001	7.30	7.64	2174
NZA-1230	25yr,24hr	153.18	152.18	-0.0001	4.20	4.21	1344
NZA-1240	25yr,24hr	170.95	170.25	0.0001	6.86	7.21	1610
NZA-1250	25yr,24hr	199.81	199.59	0.0001	12.53	12.33	2054
NZA-1260	25yr,24hr	233.53	233.06	0.0001	28.01	27.18	6223
NZA-1270	25yr,24hr	192.41	190.67	0.0000	5.41	5.35	2148
NZA-1280	25yr,24hr	164.00	162.50	0.0000	15.97	15.63	4667
NZA-1290	25yr,24hr	136.00	130.63	0.0000	27.86	23.51	36961
NZA-1300	25yr,24hr	203.42	202.78	0.0001	5.90	5.41	2356
NZA-1310	25yr,24hr	183.73	183.47	0.0001	12.39	10.63	5137

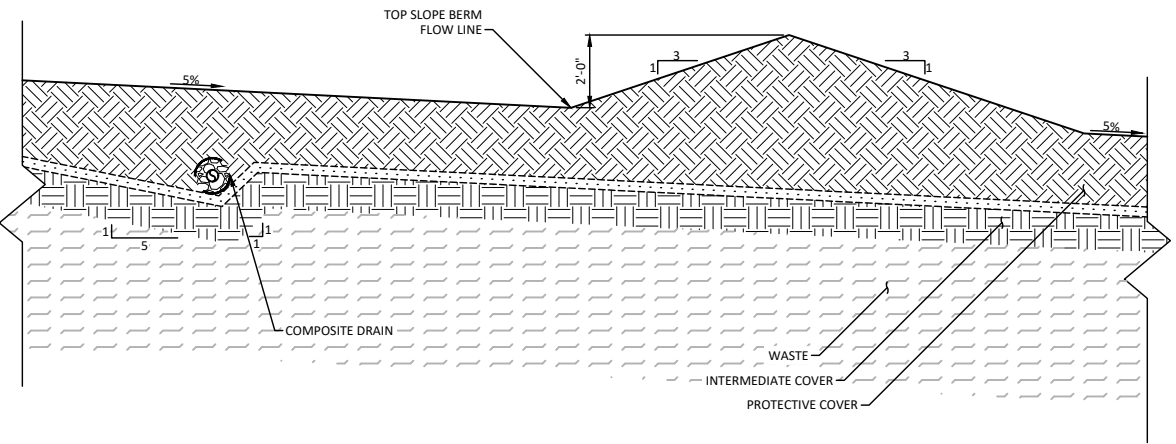
Node Name	Sim Name	Warning Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]	Max Total Outflow [cfs]	Max Surface Area [ft2]
NZA-1320	25yr,24hr	163.36	163.21	0.0001	19.32	12.25	13301
NZA-1330	25yr,24hr	225.75	224.72	0.0000	48.33	46.58	11047
NZA-1340	25yr,24hr	203.92	203.11	-0.0001	66.61	66.42	3294
NZA-1350	25yr,24hr	179.00	178.33	-0.0001	82.00	81.34	6241
NZA-1360	25yr,24hr	137.90	137.44	-0.0001	106.50	105.59	7218
NZA-1370	25yr,24hr	151.75	151.67	0.0001	16.00	15.33	4114
NZA-1380	25yr,24hr	192.38	191.84	0.0001	8.48	8.38	2866
NZA-1390	25yr,24hr	215.69	215.52	0.0001	13.49	12.87	3170
NZA-1400	25yr,24hr	236.03	235.51	0.0001	24.90	23.51	7941
NZA-1410	25yr,24hr	232.35	231.85	0.0001	25.47	24.88	5147
NZA-1420	25yr,24hr	216.90	216.49	0.0001	9.00	8.73	1935
NZA-1430	25yr,24hr	186.98	186.43	0.0001	7.74	7.82	1890
NZA-1440	25yr,24hr	147.52	147.13	0.0001	10.99	11.22	2252
NZA-1460	25yr,24hr	130.50	128.81	-0.0001	44.01	17.11	26181
NZA-1470	25yr,24hr	192.80	192.76	0.0001	37.15	36.67	5441
NZA-1480	25yr,24hr	201.70	201.68	-0.0001	17.87	17.58	2318
NZA-1490	25yr,24hr	201.95	201.91	0.0001	20.49	19.78	3040
NZA-1500	25yr,24hr	173.49	173.12	0.0001	9.29	8.84	2423
NZA-1510	25yr,24hr	163.92	162.87	0.0000	45.07	44.96	2604
NZA-1520	25yr,24hr	161.90	160.95	0.0001	53.98	53.86	2557
NZA-1530	25yr,24hr	139.15	137.29	0.0001	63.33	63.06	3176
NZA-1540	25yr,24hr	142.88	141.99	-0.0001	3.47	3.38	1022
NZA-1550	25yr,24hr	147.71	147.00	-0.0001	6.49	6.78	2066
NZA-1560	25yr,24hr	168.00	167.76	0.0001	9.95	9.51	2376
NZA-1570	25yr,24hr	229.34	228.47	0.0000	14.02	11.90	10589
NZA-1580	25yr,24hr	226.24	225.33	-0.0001	12.34	11.16	6977
NZA-1590	25yr,24hr	205.20	205.20	0.0001	35.31	32.83	7091
NZA-1600	25yr,24hr	146.19	145.63	-0.0001	94.13	94.04	2208
NZA-1610	25yr,24hr	208.92	207.98	0.0000	54.54	54.46	2116
NZA-1620	25yr,24hr	173.93	172.93	0.0000	49.99	49.69	4054
NZA-1630	25yr,24hr	160.00	159.70	0.0001	126.83	126.61	3909
NZA-1640	25yr,24hr	164.00	163.55	0.0001	107.72	107.61	3955
NZA-1650	25yr,24hr	197.18	196.45	0.0001	74.99	74.75	4041
NZA-1660	25yr,24hr	237.64	236.65	0.0000	14.24	12.99	7705
NZA-1670	25yr,24hr	172.00	171.56	-0.0001	108.61	108.49	2515
NZA-1690	25yr,24hr	191.07	190.03	0.0000	46.46	46.34	2492
NZA-1700	25yr,24hr	139.00	138.65	0.0000	17.65	15.59	17201
NZA-1780	25yr,24hr	140.00	138.64	0.0000	18.04	16.55	17401
NZA-1790	25yr,24hr	132.00	130.21	0.0001	72.08	71.52	3143
NZA-1800	25yr,24hr	129.10	129.09	-0.0012	71.52	71.20	1373
NZA-RS	25yr,24hr	241.00	239.96	0.0000	26.81	25.70	7358
NZV-1010	25yr,24hr	125.00	114.75	0.0007	31.22	0.00	2228
NZV-1020	25yr,24hr	128.00	125.73	0.0001	70.15	0.00	43560
POND A-1	25yr,24hr	128.00	126.21	0.0001	152.70	10.26	116442
POND B	25yr,24hr	130.00	125.74	0.0001	197.96	70.15	215293
POND D	25yr,24hr	116.00	114.75	-0.0094	512.84	31.22	913315
POND F	25yr,24hr	128.00	127.94	0.0001	14.93	5.26	13728

Node Name	Sim Name	Warning Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]	Max Total Outflow [cfs]	Max Surface Area [ft2]
POND G	25yr,24hr	127.00	126.64	0.0001	12.78	1.75	34905
SE-DITCH	25yr,24hr	131.00	129.40	0.0001	94.04	44.01	55171
SEC12-1	25yr,24hr	288.00	287.28	-0.0001	76.17	75.46	5813
SEC12-2	25yr,24hr	130.00	128.20	0.0000	169.80	168.26	13562
SEC12-B	25yr,24hr	127.15	126.26	0.0001	168.26	167.54	4282
SEC13-1	25yr,24hr	288.00	287.27	0.0000	75.98	75.68	5520
SEC13-2	25yr,24hr	133.00	132.08	0.0001	75.68	69.47	16666
SEC13A-1	25yr,24hr	288.00	287.22	-0.0001	70.74	70.18	5740
SEC13A-2	25yr,24hr	131.00	130.81	0.0001	128.85	114.19	25399
SED POND 2	25yr,24hr	125.00	123.13	-0.0001	188.34	72.13	160702
SED POND 3	25yr,24hr	130.00	123.90	0.0062	146.20	178.62	48039
SED POND 4	25yr,24hr	132.00	129.04	0.0001	328.33	116.02	134465
SED POND 8	25yr,24hr	125.00	120.16	-0.0002	246.31	179.45	45158
SED POND A-2	25yr,24hr	126.00	125.73	0.0001	107.66	7.95	385054
SED POND A-3	25yr,24hr	126.00	125.74	0.0001	177.49	68.72	142851

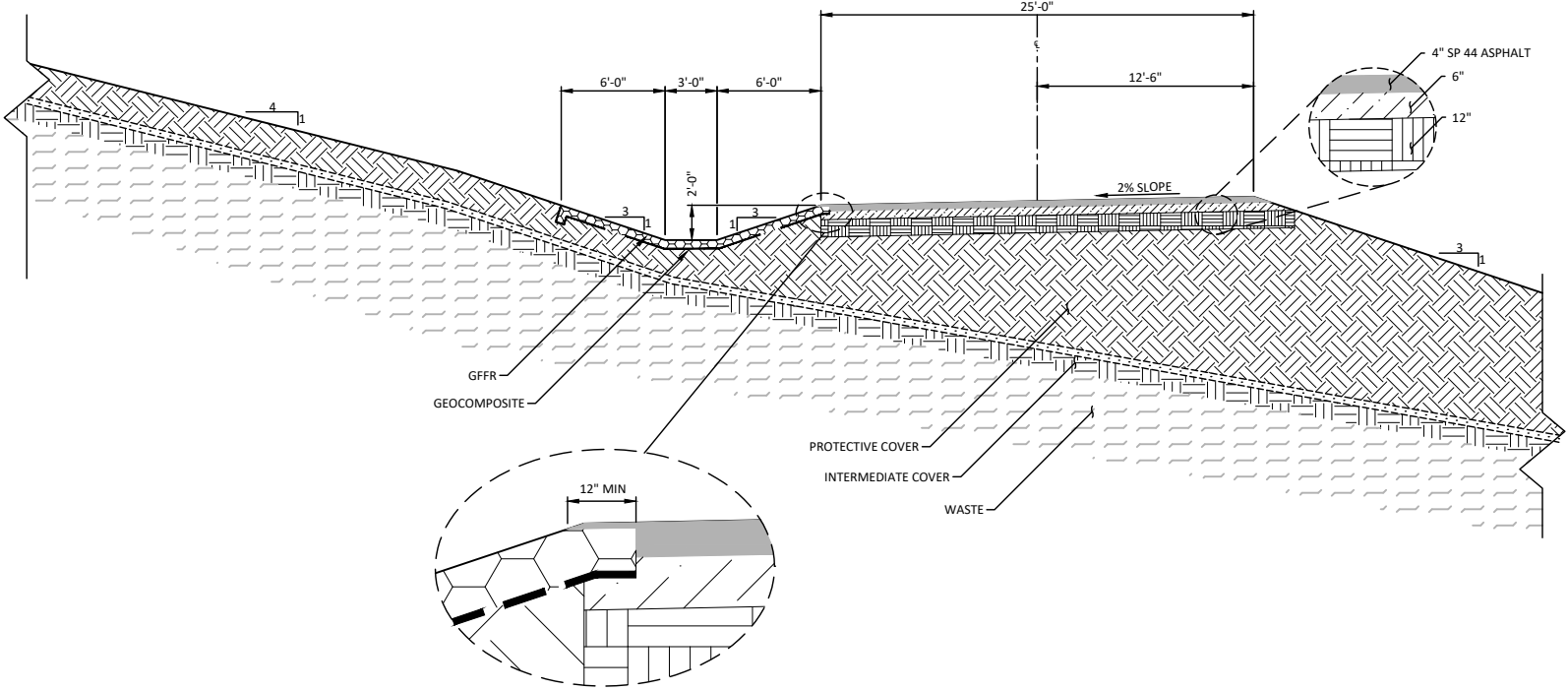


Appendix E

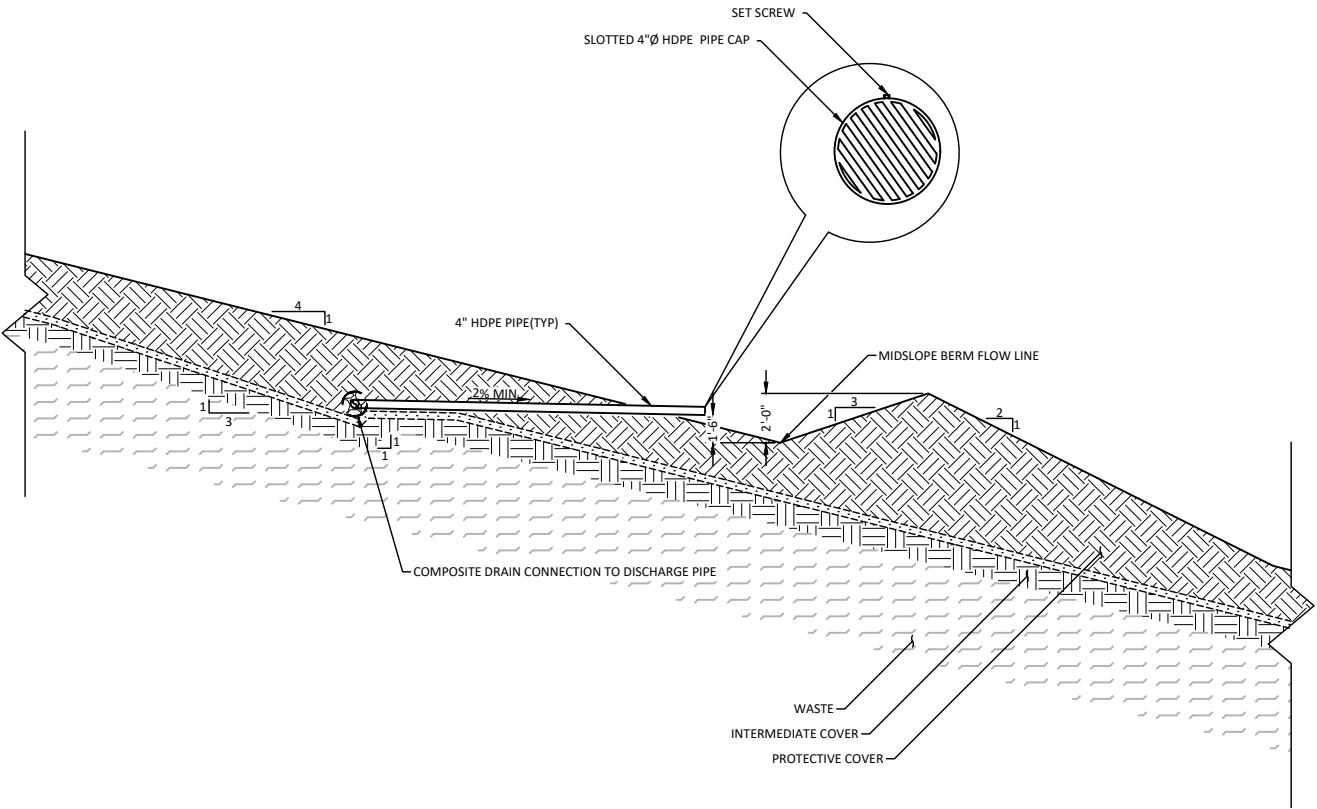
Channel Analysis



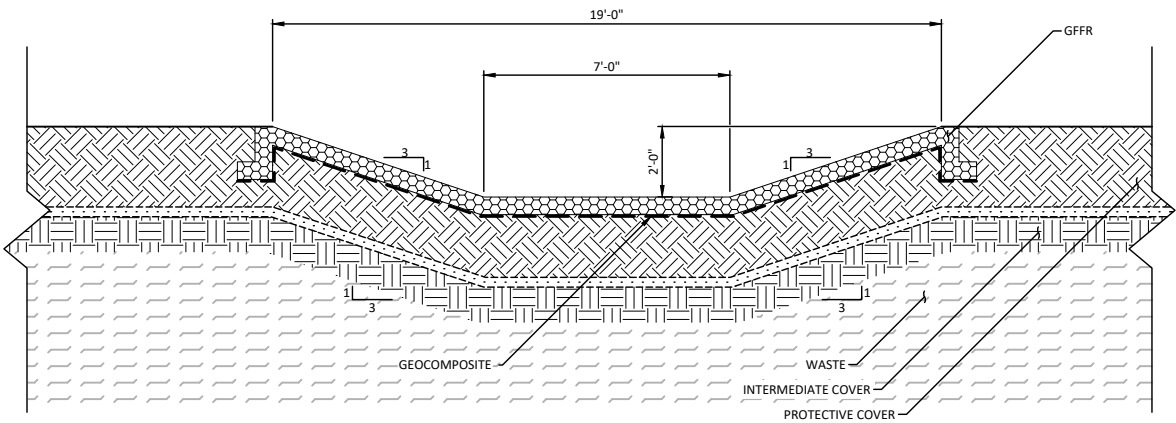
TOP SLOPE BERM DETAIL



MAIN HAUL ROAD SWALE DETAIL



MID SLOPE BERM DETAIL



DOWNCHUTE DETAIL



North American Green
 5401 St. Wendel-Cynthiana Rd.
 Poseyville, Indiana 47633
 Tel. 800.772.2040
 >Fax 812.867.0247
 www.nagreen.com
 ECMDS v7.0

CHANNEL ANALYSIS

> > > Max Flow Top-slope Berm

Name Max Flow Top-slope Berm
 Discharge 42.51
 Channel Slope 0.02
 Channel Bottom Width 0
 Left Side Slope 20
 Right Side Slope 3
 Low Flow Liner
 Retardence Class D 2-6 in
 Vegetation Type Sod Former
 Vegetation Density Very Good 80-95%
 Soil Type Sandy Loam (GM)

Unreinforced Vegetation

Phase	Reach	Discharge	Velocity	Normal Depth	Mannings N	Permissible Shear Stress	Calculated Shear Stress	Safety Factor	Remarks	Staple Pattern
Unreinforced Vegetation	Straight	42.51 cfs	3.55 ft/s	1.02 ft	0.038	4 lbs/ft ²	1.27 lbs/ft ²	3.14	STABLE	--
Underlying Substrate	Straight	42.51 cfs	3.55 ft/s	1.02 ft	0.038	4 lbs/ft ²	0.63 lbs/ft ²	6.33	STABLE	--

CHANNEL ANALYSIS

> > > Max Flow Side-slope Berm

Name	Max Flow Side-slope Berm
Discharge	32.83
Channel Slope	0.02
Channel Bottom Width	0
Left Side Slope	3
Right Side Slope	4
Low Flow Liner	
Retardence Class	D 2-6 in
Vegetation Type	Sod Former
Vegetation Density	Very Good 80-95%
Soil Type	Sandy Loam (GM)

Unreinforced Vegetation

Phase	Reach	Discharge	Velocity	Normal Depth	Mannings N	Permissible Shear Stress	Calculated Shear Stress	Safety Factor	Remarks	Staple Pattern
Unreinforced Vegetation	Straight	32.83 cfs	4.8 ft/s	1.4 ft	0.034	4 lbs/ft2	1.75 lbs/ft2	2.29	STABLE	--
Underlying Substrate	Straight	32.83 cfs	4.8 ft/s	1.4 ft	0.034	4 lbs/ft2	0.84 lbs/ft2	4.77	STABLE	--



Appendix F

Permitted 2008 ICPR Model Outputs

APPENDIX D.2.B

POST-DEVELOPMENT ICPR MODEL OUTPUT DATA

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	M	urf rea ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
A1		BASE01.28.08_redesi	13.78	127.381	128.000	0.0011	120295		12.09	147.288	12.71	13.134
A2		BASE01.28.08_redesi	19.31	125.331	126.000	0.0002	381027		12.08	71.796	22.89	13.448
A3		BASE01.28.08_redesi	18.66	125.238	126.000	0.0003	111827		12.08	18.142	22.46	15.657
B10-NW-swaile		BASE01.28.08_redesi	22.73	98.110	103.000	0.0009	16266		26.97	69.310	26.23	69.371
B4-MC1		BASE01.28.08_redesi	27.39	123.299	125.000	0.0001	4921760		12.78	523.659	27.35	18.992
B5-MC2		BASE01.28.08_redesi	20.10	122.526	124.500	0.0003	471697		12.00	198.561	20.10	44.781
B6-MC3		BASE01.28.08_redesi	25.08	112.441	120.000	0.0002	957868		12.08	254.389	25.08	69.463
B7-Creek		BASE01.28.08_redesi	20.75	97.289	98.000	0.0008	1193235		13.87	339.642	20.75	243.419
B7-Creek South		BASE01.28.08_redesi	17.67	121.838	125.000	-0.0003	108680		17.48	126.682	17.67	126.624
BasinB		BASE01.28.08_redesi	12.54	125.646	130.000	0.0007	211799		12.10	217.559	12.54	70.699
BasinC		BASE01.28.08_redesi	12.83	129.322	130.000	0.0013	190943		12.27	281.107	12.83	127.162
BasinD		BASE01.28.08_redesi	20.40	115.433	116.000	0.0004	907828		12.19	375.102	19.65	34.885
BasinE		BASE01.28.08_redesi	12.15	127.264	128.000	0.0013	11038		12.08	12.757	12.15	11.907
BasinF		BASE01.28.08_redesi	12.20	126.345	128.000	0.0008	9266		12.00	7.175	12.19	4.546
BasinG		BASE01.28.08_redesi	12.38	125.763	127.000	0.0014	7787		12.06	6.927	12.38	5.365
BasinH		BASE01.28.08_redesi	24.50	139.822	149.750	0.0011	466		12.00	0.630	0.00	0.000
BasinJ		BASE01.28.08_redesi	13.75	125.942	130.000	0.0007	514247		12.15	364.685	13.72	35.391
Citrus		BASE01.28.08_redesi	17.49	126.851	128.000	-0.0025	293513		15.50	148.937	17.49	126.106
FINAL-SED		BASE01.28.08_redesi	26.98	103.190	104.000	0.0009	142274		26.50	69.326	26.97	69.310
LTF-1		BASE01.28.08_redesi	12.00	148.891	149.000	0.0022	168		12.00	4.086	12.00	4.047
LTF-4		BASE01.28.08_redesi	24.50	142.138	145.750	0.0004	8186		12.00	3.154	7.28	0.000
LTF-5		BASE01.28.08_redesi	12.04	145.767	148.500	-0.0003	1731		12.00	4.047	12.01	3.649
LTF-6		BASE01.28.08_redesi	12.04	145.749	148.750	0.0013	2198		12.00	5.482	12.04	5.141
LTF-7		BASE01.28.08_redesi	12.03	143.589	144.750	-0.0002	5744		12.00	31.098	12.03	30.745
manhole-node		BASE01.28.08_redesi	12.83	124.896	126.000	-0.0025	210		12.83	47.618	12.83	47.618
Manhole10		BASE01.28.08_redesi	12.54	124.736	129.000	-0.0200	287		12.54	32.607	12.54	32.606
NPDES		BASE01.28.08_redesi	0.00	90.800	92.000	0.0000	59		20.75	243.453	0.00	0.000
P-8		BASE01.28.08_redesi	12.13	132.300	138.000	0.0025	6629		12.09	200.666	12.13	195.051
P1-node		BASE01.28.08_redesi	12.28	135.293	136.000	-0.0013	47261		12.12	313.886	12.28	259.600
Ph1		BASE01.28.08_redesi	12.09	219.114	220.000	0.0025	5031		12.08	202.013	12.09	200.666
Ph2		BASE01.28.08_redesi	12.09	219.568	220.000	-0.0023	4422		12.08	149.182	12.09	147.920
Ph2A		BASE01.28.08_redesi	14.07	127.137	130.000	0.0015	87637		12.25	23.022	0.00	0.000
Ph3		BASE01.28.08_redesi	12.11	219.493	220.000	-0.0016	9636		12.08	86.093	12.11	82.930
Ph4		BASE01.28.08_redesi	12.10	219.579	220.000	0.0013	6807		12.08	126.898	12.10	124.798
Ph56		BASE01.28.08_redesi	12.09	219.824	220.000	-0.0025	5067		12.08	181.249	12.09	179.823
Sect10A		BASE01.28.08_redesi	12.11	292.924	298.000	-0.0017	5635		12.17	115.190	12.17	115.682
Sect10AA		BASE01.28.08_redesi	12.20	142.016	145.000	-0.0005	37940		12.11	143.307	12.20	135.554
Sect10B		BASE01.28.08_redesi	12.08	287.534	290.000	-0.0007	5058		12.08	74.937	12.08	74.833
Sect10BB		BASE01.28.08_redesi	12.11	129.984	131.000	-1.0000	24402		12.08	74.833	12.13	73.677
Sect10C		BASE01.28.08_redesi	12.09	289.396	290.000	-0.0021	6896		12.08	157.309	12.09	156.317
Sect10CC		BASE01.28.08_redesi	12.14	127.424	130.000	-0.0010	28245		12.09	250.221	12.11	226.933
Sect11		BASE01.28.08_redesi	12.08	287.670	290.000	-0.0008	4967		12.08	88.505	12.08	88.378
Sect11A		BASE01.28.08_redesi	12.14	129.249	130.000	-0.0009	21717		12.08	88.378	12.14	96.341
Sect12		BASE01.28.08_redesi	12.08	287.172	290.000	-0.0004	5182		12.08	44.754	12.08	44.650
Sect12A		BASE01.28.08_redesi	12.20	129.711	131.000	-0.0030	19888		12.10	176.136	11.97	420.895
Sect12B		BASE01.28.08_redesi	12.21	129.140	130.000	0.0168	4235		11.97	420.895	12.21	153.480
Sect13		BASE01.28.08_redesi	12.09	287.974	290.000	-0.0009	6044		12.08	124.111	12.09	123.542
Sect13A		BASE01.28.08_redesi	12.01	132.336	133.000	-0.0011	17266		12.09	123.542	12.11	132.077
Sect789		BASE01.28.08_redesi	12.04	293.932	298.000	-0.0022	10194		12.00	178.922	12.04	174.737
Sect789A		BASE01.28.08_redesi	12.17	137.122	138.000	-0.0018	28522		12.04	191.468	12.09	187.478
SECT9		BASE01.28.08_redesi	12.07	137.252	138.000	-0.0005	13600		12.00	23.348	12.05	16.769
Sed2		BASE01.28.08_redesi	12.90	123.181	125.000	-0.0011	162122		12.10	259.186	12.90	120.623
Sed3		BASE01.28.08_redesi	14.20	127.463	130.000	-0.0016	148107		12.43	141.179	13.32	73.162
Sed4		BASE01.28.08_redesi	12.61	130.901	132.000	0.0011	212322		12.15	277.385	12.61	115.716
Sed4-Ch		BASE01.28.08_redesi	12.09	134.374	135.000	-0.0019	21506		12.09	147.920	12.16	154.679
Sed5		BASE01.28.08_redesi	25.67	106.315	107.000	0.0001	136289		24.00	69.494	25.60	69.389
Sed6		BASE01.28.08_redesi	26.13	105.264	106.000	0.0007	116712		25.60	69.389	26.02	69.348
Sed7		BASE01.28.08_redesi	26.58	104.253	105.000	0.0002	105697		26.02	69.348	26.50	69.326
Sed8		BASE01.28.08_redesi	12.90	120.424	125.000	-0.0004	6518		12.89	120.953	12.90	120.951
Spway-J		BASE01.28.08_redesi	12.16	127.134	130.000	0.0021	21495		12.12	300.436	12.15	294.623
SRA		BASE01.28.08_redesi	27.50	120.465	121.000	0.0006	455839		12.67	193.853	0.00	0.000

PROPOSED CONDITION NONE SUMMARY

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Delta Q cfs	Max Time US Stage hrs	U age ft	Max Time DS Stage hrs	Max DS Stage ft
A3OUTPIPE		BASE01.28.08_redesi	18.54	18.267	-0.816	18.66	125.238	12.54	125.646
Ch10BB		BASE01.28.08_redesi	12.13	73.677	-4.354	12.11	129.984	12.16	127.134
Ch10CC		BASE01.28.08_redesi	12.11	226.933	-0.311	12.14	127.424	12.16	127.134
Ch11A		BASE01.28.08_redesi	12.14	96.341	-38.500	12.14	129.249	12.14	127.424
Ch12A		BASE01.28.08_redesi	12.11	132.077	-0.084	12.01	132.336	12.20	129.711
Ch789		BASE01.28.08_redesi	12.09	187.478	-55.121	12.17	137.122	12.28	135.293
Creek-Channel		BASE01.28.08_redesi	17.67	126.624	-0.072	17.67	121.838	17.67	98.723
DC-1		BASE01.28.08_redesi	12.10	124.798	-15.946	12.10	219.579	13.78	127.381
DC-2		BASE01.28.08_redesi	12.09	200.666	-64.666	12.09	219.114	12.13	132.300
DC-3		BASE01.28.08_redesi	12.09	147.920	-0.126	12.09	219.568	12.09	142.157
DC-4		BASE01.28.08_redesi	12.11	82.930	-0.063	12.11	219.493	12.11	141.617
DC-5		BASE01.28.08_redesi	12.09	179.823	-0.158	12.09	219.824	12.09	132.372
DC10A		BASE01.28.08_redesi	12.17	115.682	0.072	12.11	292.924	12.20	142.016
DC10B		BASE01.28.08_redesi	12.08	74.833	-0.044	12.08	287.534	12.08	129.149
DC10C		BASE01.28.08_redesi	12.09	156.317	-0.142	12.09	289.396	12.09	129.216
DC11		BASE01.28.08_redesi	12.08	88.378	-0.052	12.08	287.670	12.08	129.280
DC12		BASE01.28.08_redesi	12.08	44.650	-0.026	12.08	287.172	12.08	128.769
DC13		BASE01.28.08_redesi	12.09	123.542	-0.071	12.09	287.974	12.09	132.707
DC789		BASE01.28.08_redesi	12.04	174.737	-0.181	12.04	293.932	12.04	142.339
DS-A1		BASE01.28.08_redesi	12.71	13.134	-1.021	13.78	127.381	19.31	125.331
DS-B6-MC3		BASE01.28.08_redesi	25.08	69.463	0.044	25.08	112.441	25.67	106.315
DS-D		BASE01.28.08_redesi	19.65	34.885	1.595	20.40	115.433	25.08	112.441
DS-J		BASE01.28.08_redesi	13.72	35.391	0.621	13.75	125.942	20.10	122.526
DS-Sed2A		BASE01.28.08_redesi	12.90	60.312	0.016	12.90	123.181	12.90	120.424
DS-Sed2B		BASE01.28.08_redesi	12.90	60.312	0.016	12.90	123.181	12.90	120.424
DS-Sed8		BASE01.28.08_redesi	12.90	120.951	0.031	12.90	120.424	20.40	115.433
FinalSedOut		BASE01.28.08_redesi	13.48	7.593	2.805	26.98	103.190	22.73	98.110
Manhole100ut		BASE01.28.08_redesi	12.54	32.606	0.018	12.54	124.736	12.54	123.427
northpipe-link		BASE01.28.08_redesi	12.00	4.047	-0.004	12.00	148.891	12.00	146.359
NW Swale Berm		BASE01.28.08_redesi	22.73	33.400	0.009	22.73	98.110	20.75	97.289
OS		BASE01.28.08_redesi	17.49	126.106	14.520	17.49	126.851	17.49	122.617
P7Final		BASE01.28.08_redesi	12.16	4.471	2.364	26.58	104.253	26.98	103.190
PIPE6-7		BASE01.28.08_redesi	13.13	4.206	0.001	26.13	105.264	26.58	104.253
Pump		BASE01.28.08_redesi	7.28	0.000	0.000	24.50	142.138	12.04	145.767
S-10		BASE01.28.08_redesi	12.54	32.607	0.793	12.54	125.646	12.54	124.736
S-10A		BASE01.28.08_redesi	12.54	38.092	0.028	12.54	125.646	27.39	123.299
S-11		BASE01.28.08_redesi	12.28	259.600	0.639	12.28	135.293	12.27	132.379
S-12A		BASE01.28.08_redesi	12.83	47.618	0.245	12.83	129.322	12.83	124.896
S-12B		BASE01.28.08_redesi	12.83	47.618	2.657	12.83	124.896	27.39	123.299
S-13		BASE01.28.08_redesi	27.19	9.199	0.766	27.39	123.299	15.94	122.419
S-13A		BASE01.28.08_redesi	27.35	9.793	0.919	27.39	123.299	15.86	122.415
S-14		BASE01.28.08_redesi	20.10	21.841	-7.387	20.10	122.526	19.22	120.630
S-14A		BASE01.28.08_redesi	20.10	22.939	7.899	20.10	122.526	19.59	120.515
S-16		BASE01.28.08_redesi	27.32	17.293	-0.011	22.73	98.110	20.75	97.289
S-16A		BASE01.28.08_redesi	26.50	16.458	-0.011	22.73	98.110	20.75	97.289
S-17		BASE01.28.08_redesi	20.75	123.230	9.190	20.75	97.289	20.09	93.956
S-17A		BASE01.28.08_redesi	20.75	120.189	8.221	20.75	97.289	20.75	94.063
S-18		BASE01.28.08_redesi	26.57	10.663	0.654	22.73	98.110	20.75	97.289
S-21		BASE01.28.08_redesi	12.21	76.763	0.272	12.21	129.140	12.20	125.689
S-21A		BASE01.28.08_redesi	12.21	76.718	0.270	12.21	129.140	12.19	125.638
S-22		BASE01.28.08_redesi	13.32	73.162	45.749	14.20	127.463	13.32	123.620
S-24		BASE01.28.08_redesi	0.00	0.000	0.000	24.50	139.822	12.04	145.767
S-25		BASE01.28.08_redesi	12.61	68.646	0.839	12.61	130.901	12.58	128.544
S-25A		BASE01.28.08_redesi	12.61	47.070	-12.261	12.61	130.901	12.57	128.735
S-3		BASE01.28.08_redesi	12.15	11.907	0.007	12.15	127.264	17.67	121.838
S-5		BASE01.28.08_redesi	12.19	4.546	-0.090	12.20	126.345	12.62	125.688
S-6		BASE01.28.08_redesi	12.38	5.365	0.574	12.38	125.763	19.31	125.331
S-7		BASE01.28.08_redesi	22.89	13.448	0.207	19.31	125.331	18.66	125.238
S-8		BASE01.28.08_redesi	12.13	195.051	-0.187	12.13	132.300	12.12	129.199
S-9		BASE01.28.08_redesi	150.00	-0.000	-1.737	18.66	125.238	14.07	127.137
Sed4-Ch		BASE01.28.08_redesi	12.16	154.679	-51.125	12.09	134.374	12.61	130.901
Spway-J		BASE01.28.08_redesi	12.15	294.623	-23.146	12.16	127.134	13.75	125.942
SPWAY12		BASE01.28.08_redesi	11.97	420.895	-337.802	12.20	129.711	12.21	129.140
Spway5		BASE01.28.08_redesi	25.60	69.389	0.027	25.67	106.315	26.13	105.264
Spway6		BASE01.28.08_redesi	26.03	65.433	0.025	26.13	105.264	26.58	104.253
Spway7		BASE01.28.08_redesi	26.51	65.467	0.027	26.58	104.253	26.98	103.190
SpwayC		BASE01.28.08_redesi	12.83	79.544	0.097	12.83	129.322	12.83	124.291

PROPOSED CONDITION LINK SUMMARY

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Delta Q cfs	Max Time US Stage hrs	U age ft	Max Time DS Stage hrs	Max DS Stage ft
SpwayD	BASE01.28.08_redesi		0.00	0.000	0.000	20.40	115.433	20.75	97.289
SpwayFinal	BASE01.28.08_redesi		26.98	62.315	0.008	26.98	103.190	22.73	98.110
Swale1	BASE01.28.08_redesi		12.05	16.769	0.834	12.07	137.252	12.17	137.122
Swale3	BASE01.28.08_redesi		12.20	135.554	-0.048	12.20	142.016	12.28	135.293
swale5	BASE01.28.08_redesi		12.01	3.649	-0.028	12.04	145.767	12.04	145.749
swale6-link	BASE01.28.08_redesi		12.03	30.745	0.097	12.03	143.589	12.03	140.589
swpipe1-link	BASE01.28.08_redesi		12.04	2.570	0.003	12.04	145.749	12.04	143.393
SWpipe2-link	BASE01.28.08_redesi		12.04	2.570	0.003	12.04	145.749	12.04	143.393